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Appendix B.4

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	24.05	18.00	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.18	18.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.05	18.00	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.14	17.09	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.03	17.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.16	18.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.00	17.95	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.10	17.05	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.87	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.99	17.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.87	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.95	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.33	17.28	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.38	17.33	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.35	17.30	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.24	16.19	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.33	17.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.31	17.26	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.23	17.18	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.24	16.19	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.01	16.96	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.19	17.14	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.04	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.09	16.04	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.23	16.18	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.37	16.32	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.23	16.18	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.20	15.15	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.26	16.21	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.35	16.30	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.25	16.20	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.10	15.05	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.07	16.02	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.13	16.08	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.02	15.97	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.00	14.95	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.11	18.06	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.11	18.06	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.06	18.01	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.11	17.06	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.08	18.03	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.07	18.02	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.07	18.02	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.07	17.02	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.95	17.90	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.90	17.85	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.89	17.84	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.97	16.92	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.25	17.20	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.29	17.24	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.35	17.30	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.18	16.13	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.39	17.34	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.35	17.30	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.28	17.23	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.13	16.08	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.06	17.01	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.16	17.11	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.15	17.10	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	22.02	15.97	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.29	16.24	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.37	16.32	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.34	16.29	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.14	15.09	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.31	16.26	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.21	16.16	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.19	16.14	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.12	15.07	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.07	16.02	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.11	16.06	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.13	16.08	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.99	14.94	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.01	17.96	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.28	18.23	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.94	17.89	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.11	17.06	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.99	17.94	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.18	18.13	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.95	17.90	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.07	17.02	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.88	17.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.11	18.06	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.79	17.74	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.98	16.93	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.30	17.25	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.51	17.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.15	17.10	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.15	16.10	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.24	17.19	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.49	17.44	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.17	17.12	38.45	PASS



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Band5	5MHz	16QAM	20625	1RB#0	23.07	17.02	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.28	17.23	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.98	16.93	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.01	15.96	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.18	16.13	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.44	16.39	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.22	16.17	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.16	15.11	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.23	16.18	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.42	16.37	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.15	16.10	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.11	15.06	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.04	15.99	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.27	16.22	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.00	15.95	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.01	14.96	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.12	18.07	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.16	18.11	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.02	17.97	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.16	17.11	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.06	18.01	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.15	18.10	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.98	17.93	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.10	17.05	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.02	17.97	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.07	18.02	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.89	17.84	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.01	16.96	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.32	17.27	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.34	17.29	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.31	17.26	38.45	PASS



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Band5	10MHz	16QAM	20525	1RB#0	23.32	17.27	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.34	17.29	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.23	17.18	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.15	16.10	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.20	17.15	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.22	17.17	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.17	17.12	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.05	16.00	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.32	16.27	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.35	16.30	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.22	16.17	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.19	15.14	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.30	16.25	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.40	16.35	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.16	16.11	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.17	15.12	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.18	16.13	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.28	16.23	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.15	16.10	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.04	14.99	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.42	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.14	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.96	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.40	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.50	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.28	13	PASS



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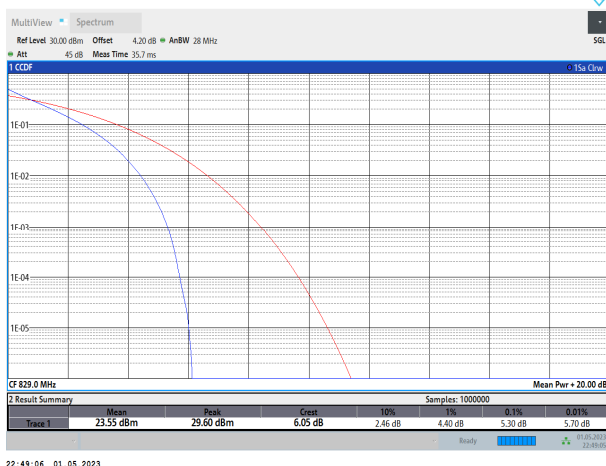
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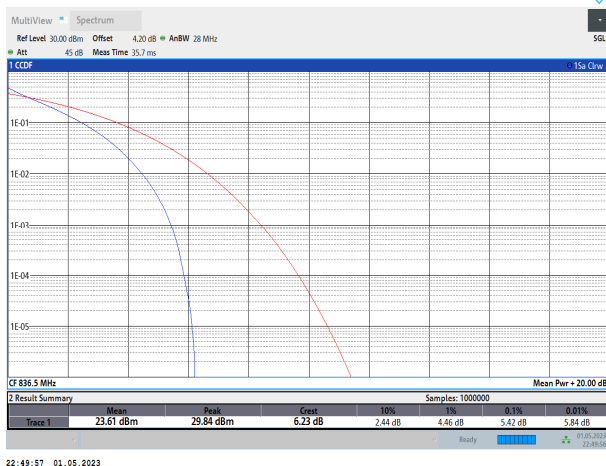
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Test Graphs

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



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



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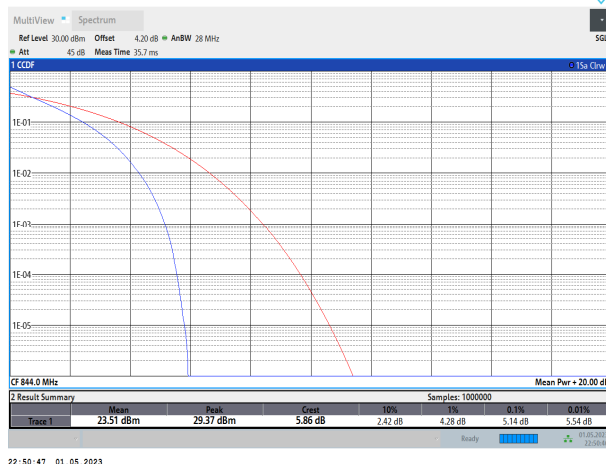
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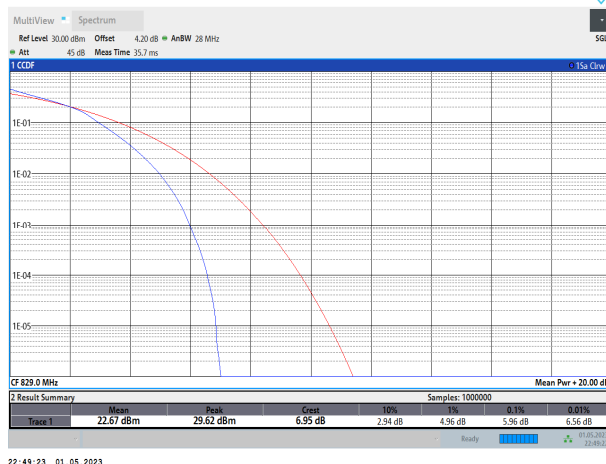
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Band5-10MHz-QPSK-20600-50RB#0



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



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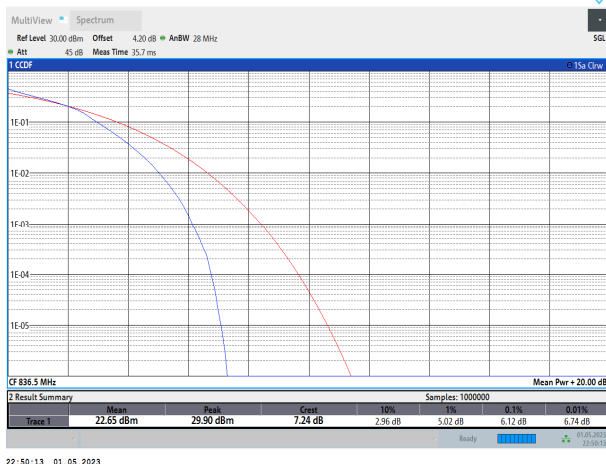
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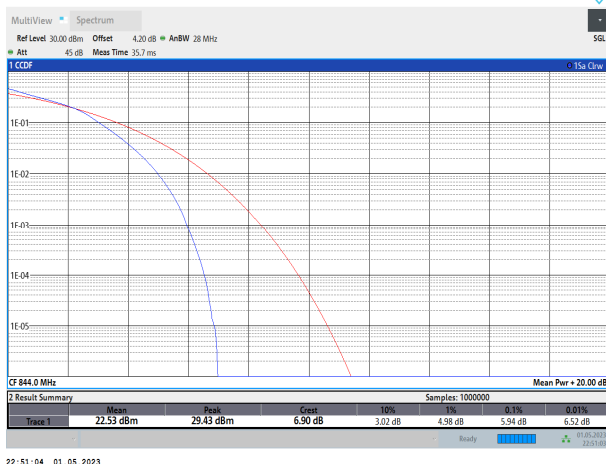
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Band5-10MHz-16QAM-20525-50RB#0



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



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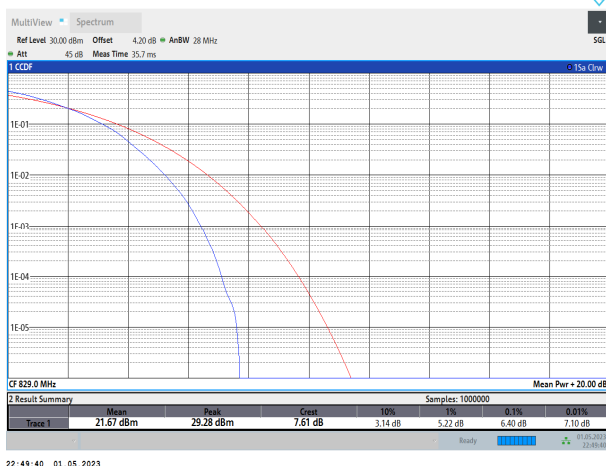
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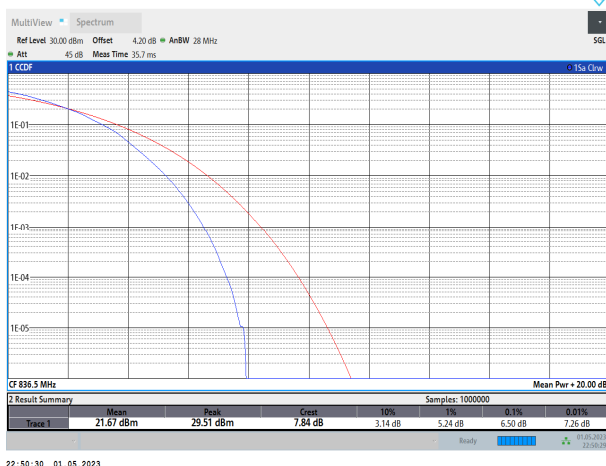
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Band5-10MHz-64QAM-20450-50RB#0



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



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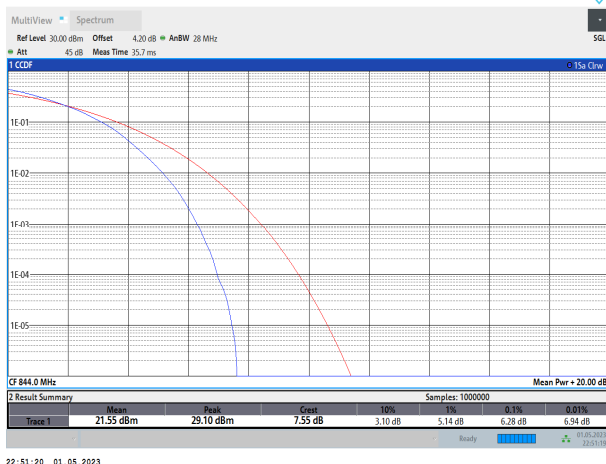
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Band5-10MHz-64QAM-20600-50RB#0



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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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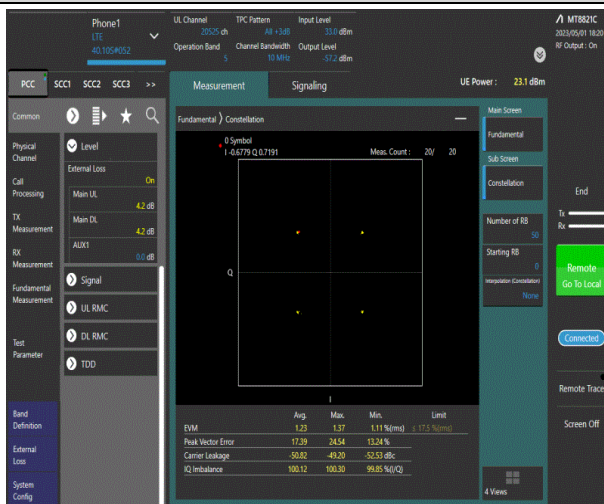
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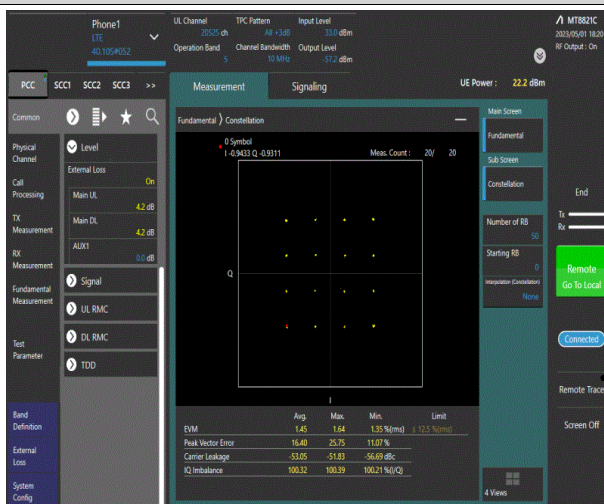
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Test Graphs

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



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

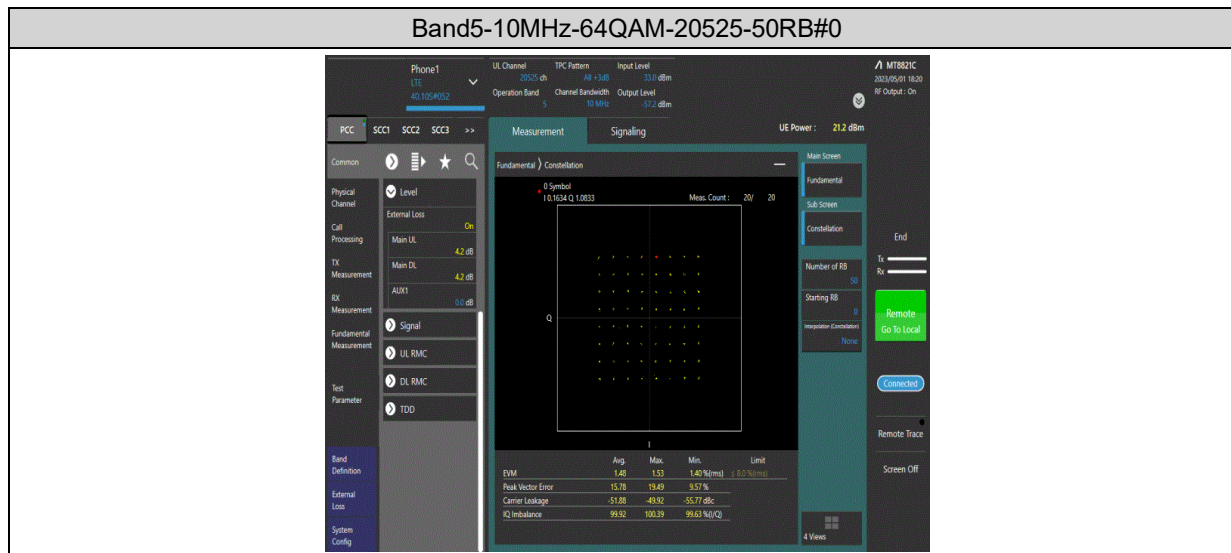


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Band5-10MHz-64QAM-20525-50RB#0



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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	1.087	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.089	1.27	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.084	1.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.086	1.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.095	1.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.095	1.29	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.087	1.27	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.091	1.27	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.090	1.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.87	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.683	2.88	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.675	2.87	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.682	2.89	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.681	2.88	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.684	2.90	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.679	2.88	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.678	2.89	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.685	2.92	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.473	4.80	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.477	4.75	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.458	4.76	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.84	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.77	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.78	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.475	4.79	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.474	4.81	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.461	4.80	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.934	9.54	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.940	9.52	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.956	9.52	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.946	9.52	PASS



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Band5	10MHz	16QAM	20600	50RB#0	8.923	9.40	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.929	9.44	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.937	9.64	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.922	9.60	PASS



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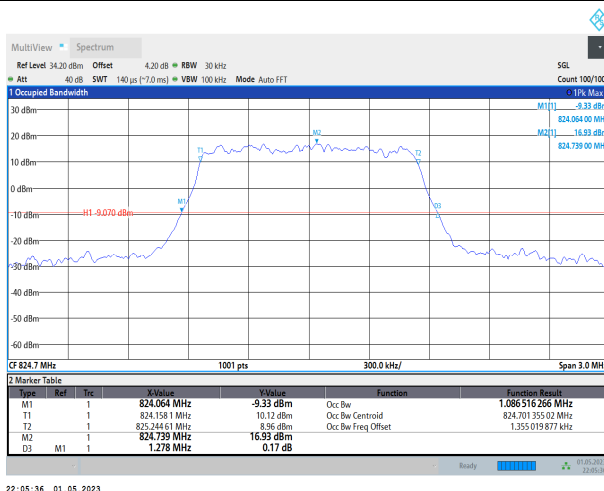
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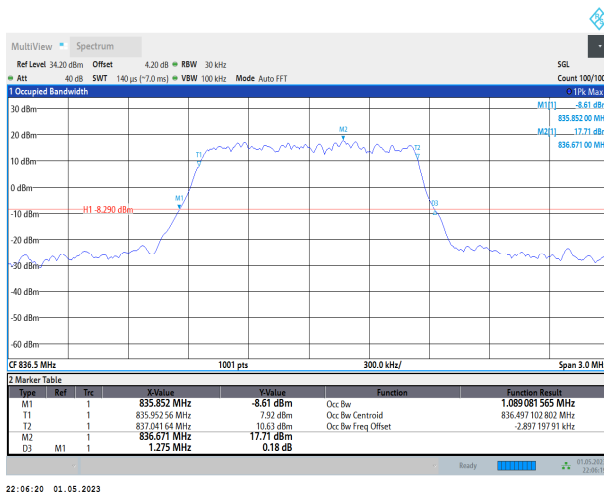
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Test Graphs

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



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

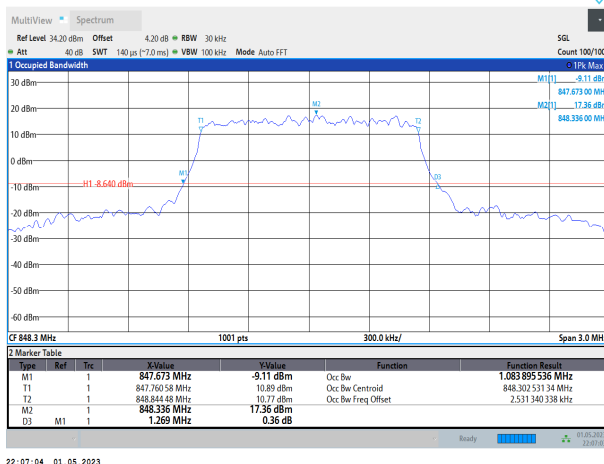


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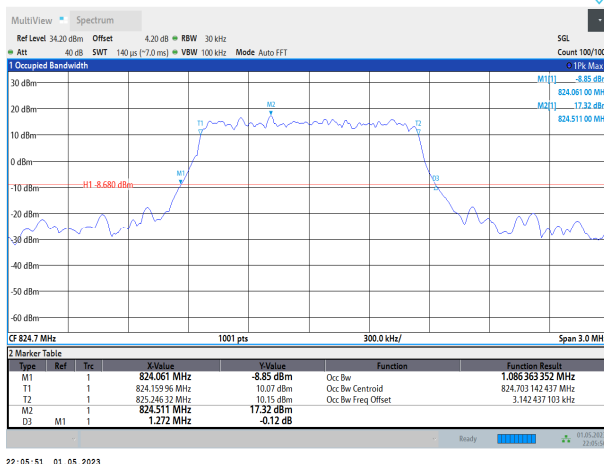
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Band5-1.4MHz-QPSK-20643-6RB#0



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



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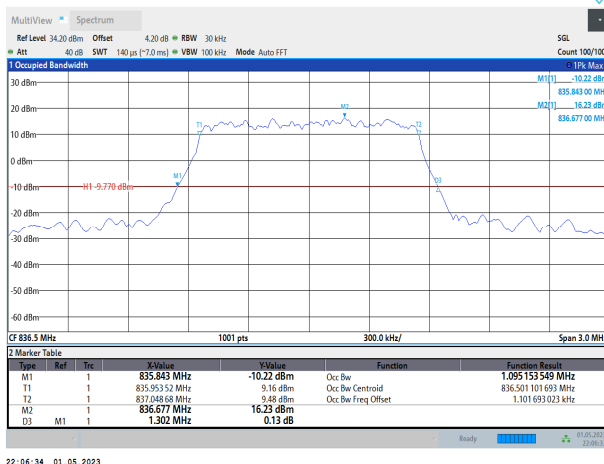
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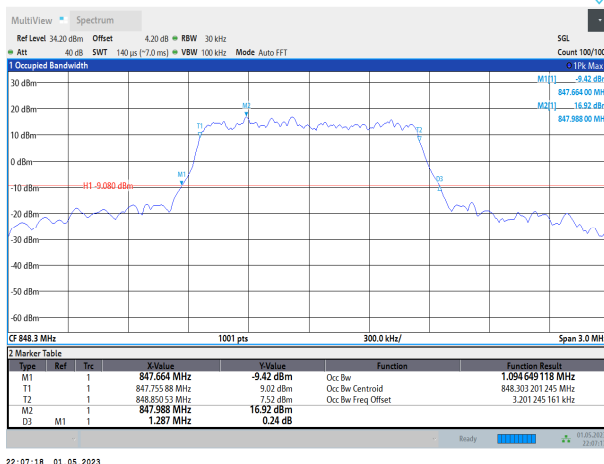
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Band5-1.4MHz-16QAM-20525-6RB#0



Band5-1.4MHz-16QAM-20643-6RB#0



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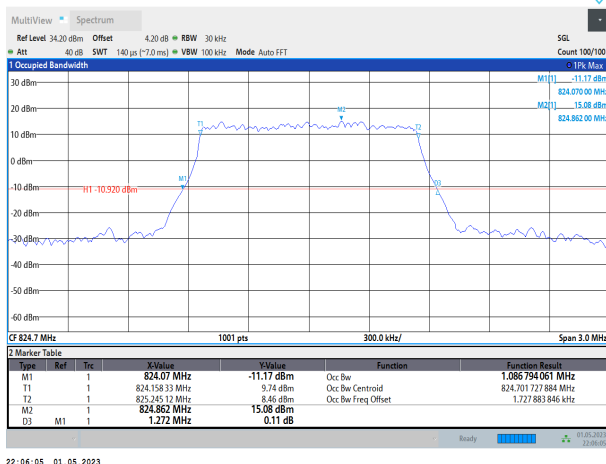
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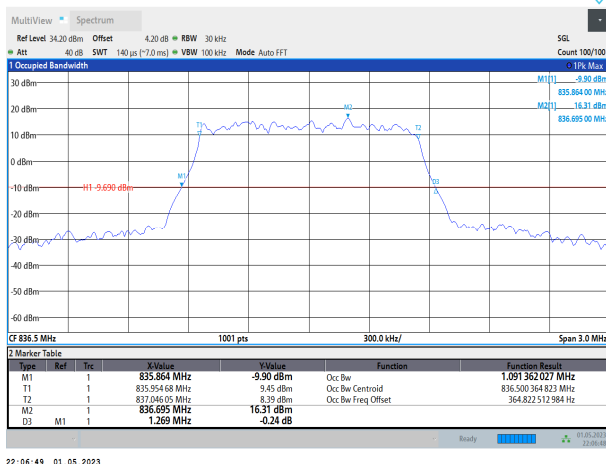
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Band5-1.4MHz-64QAM-20407-6RB#0



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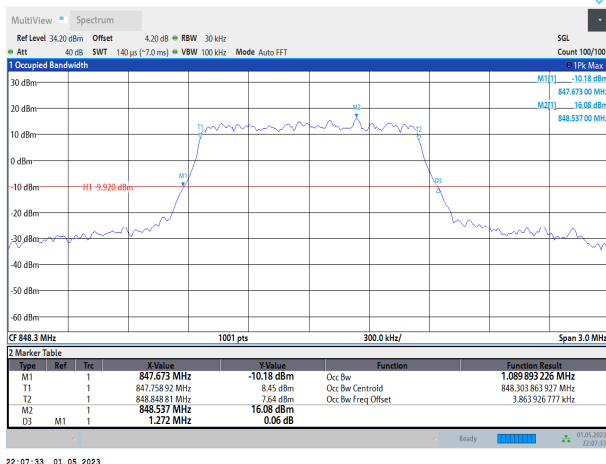
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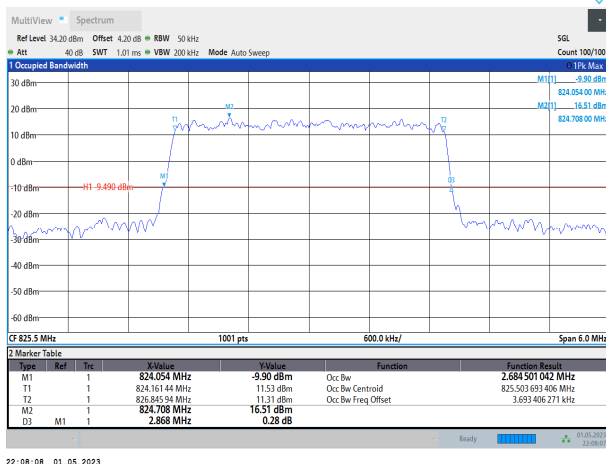
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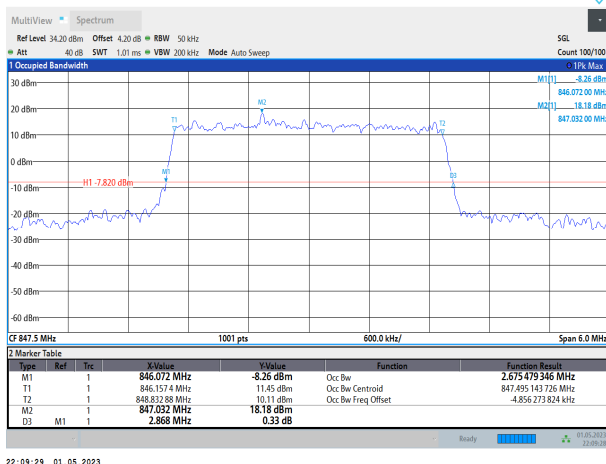
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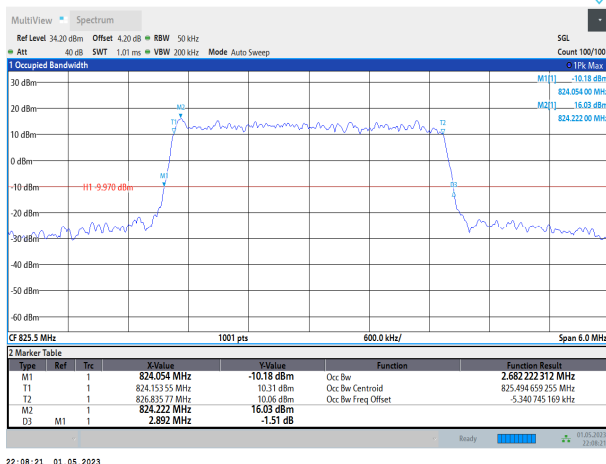
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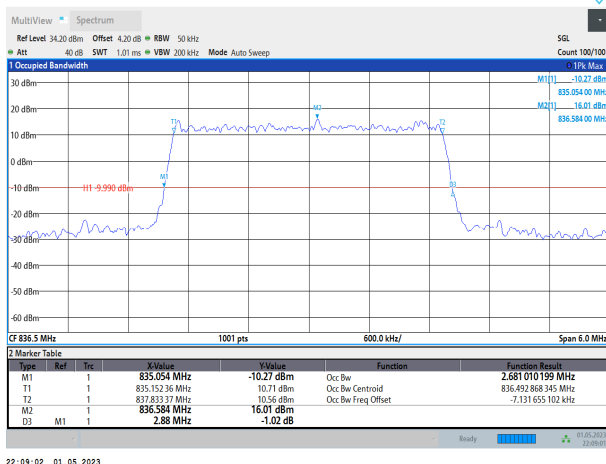
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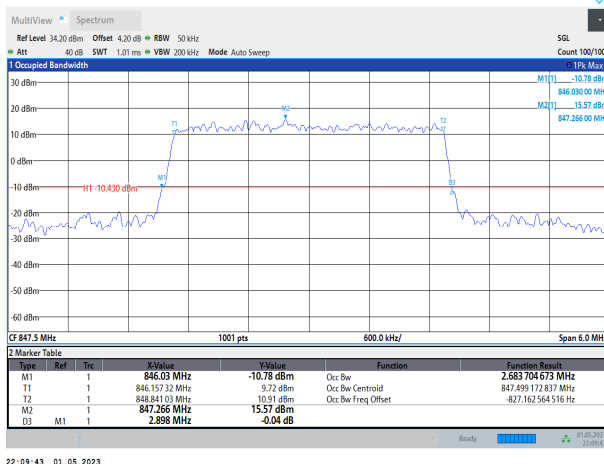
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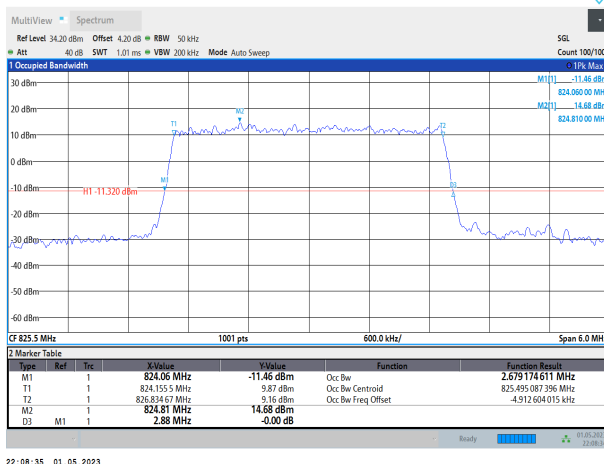
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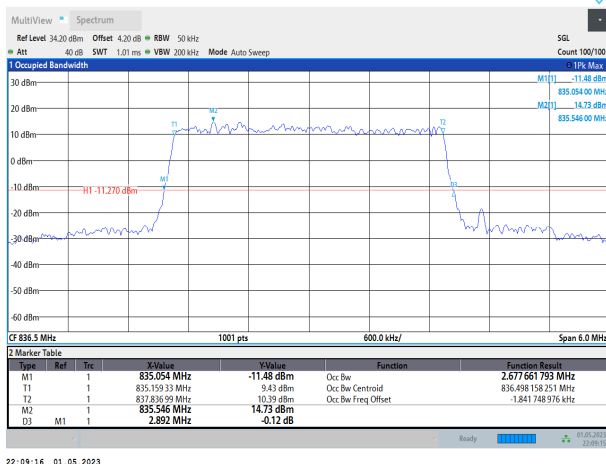


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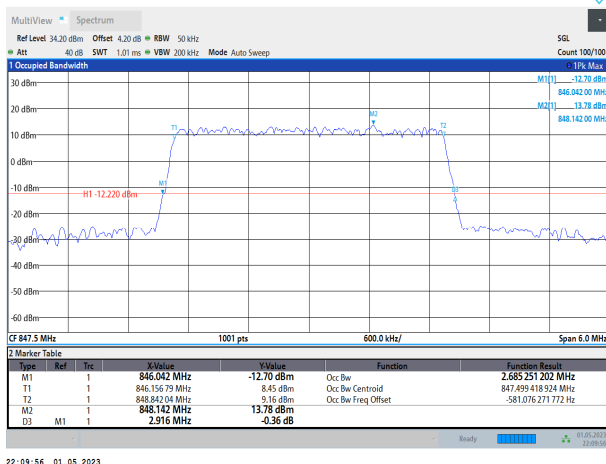
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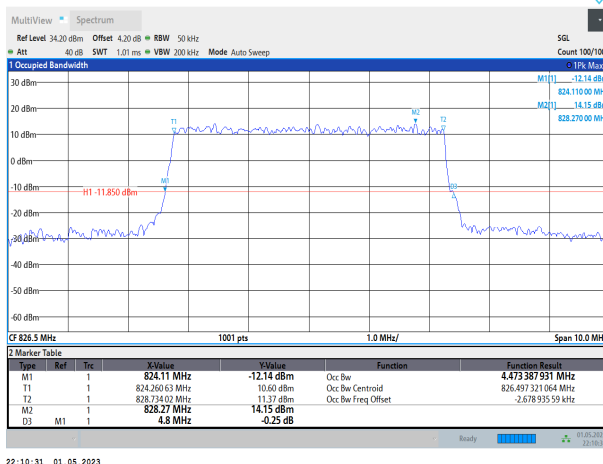
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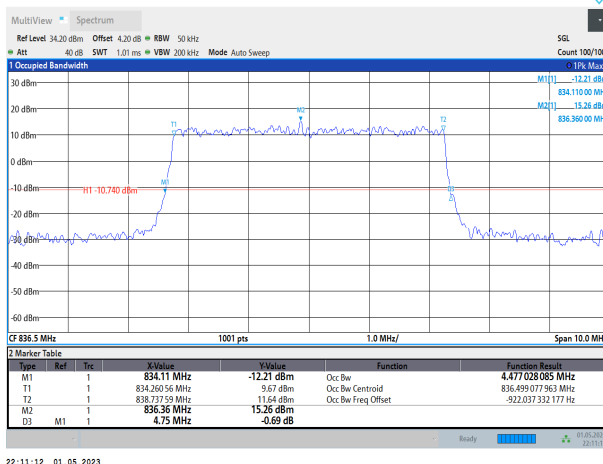
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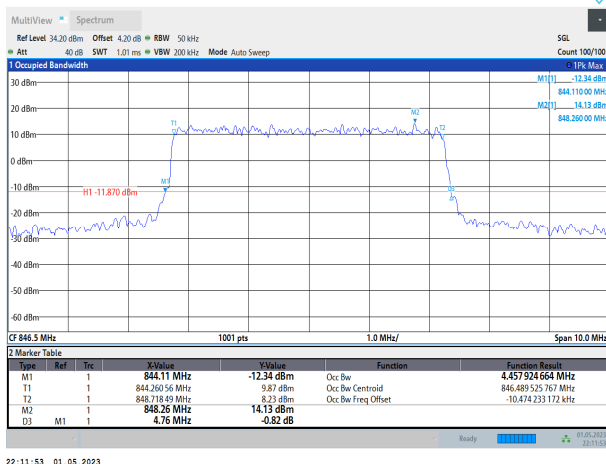
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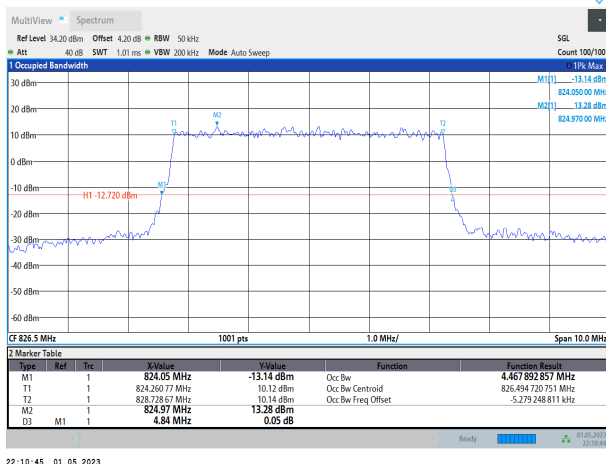
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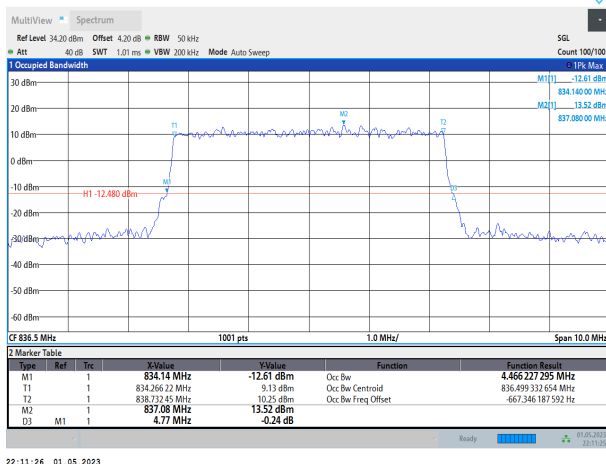


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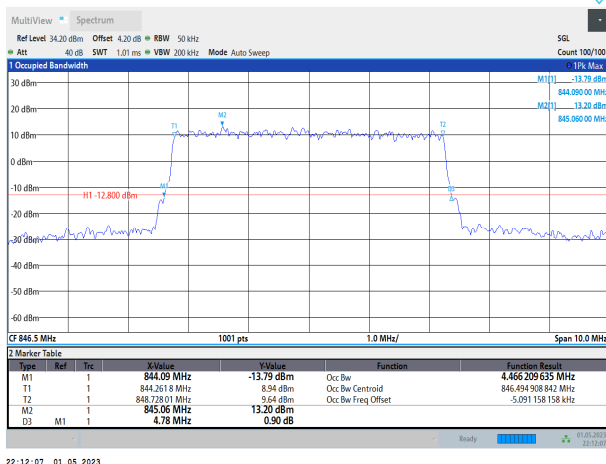
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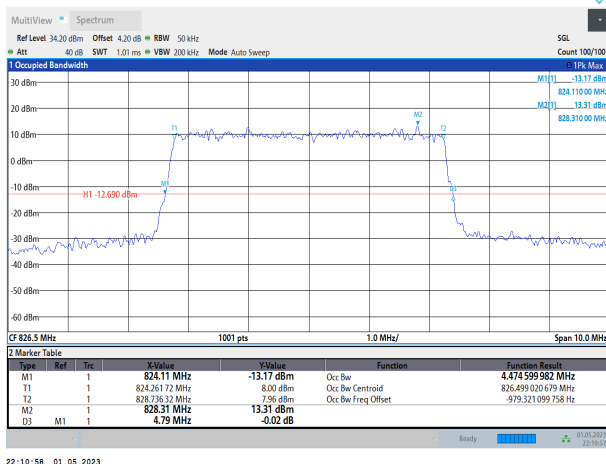
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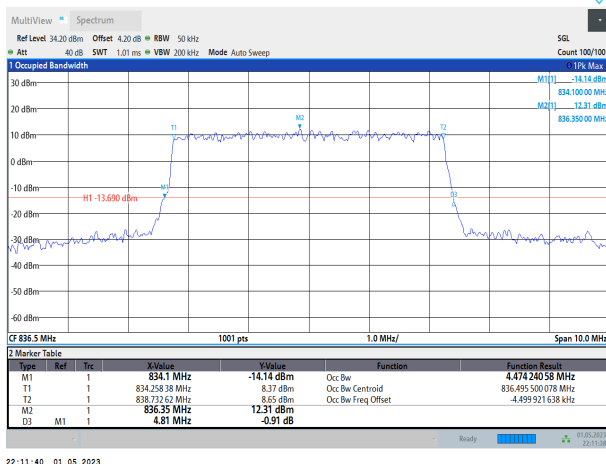
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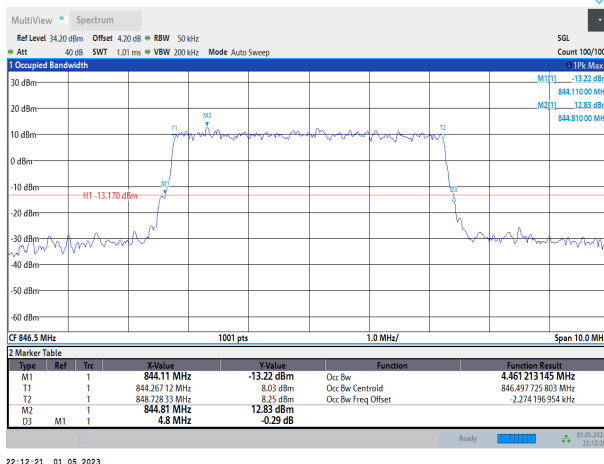


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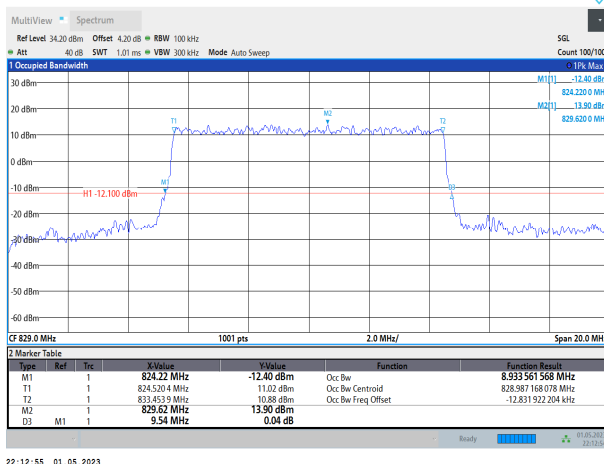
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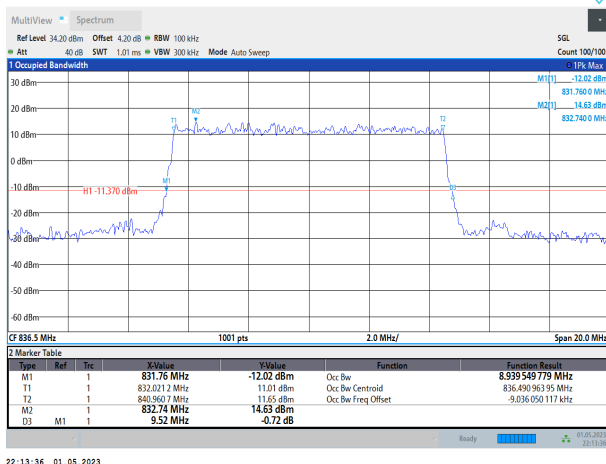
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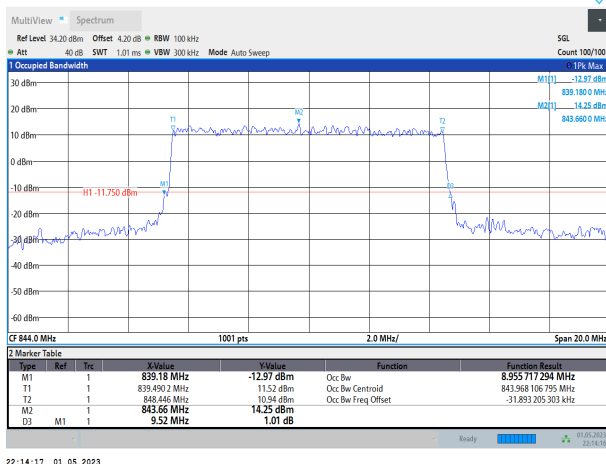
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Band5-10MHz-QPSK-20600-50RB#0



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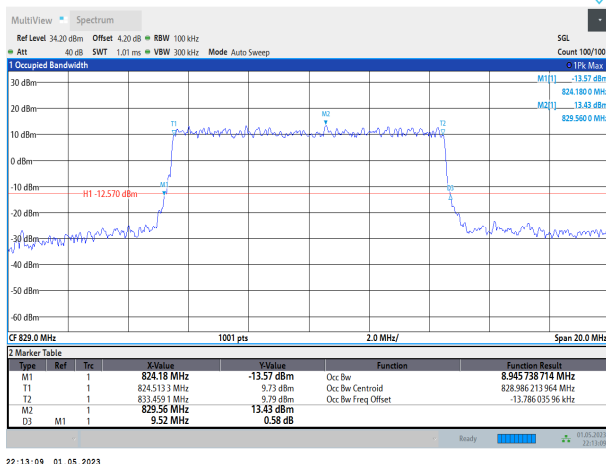
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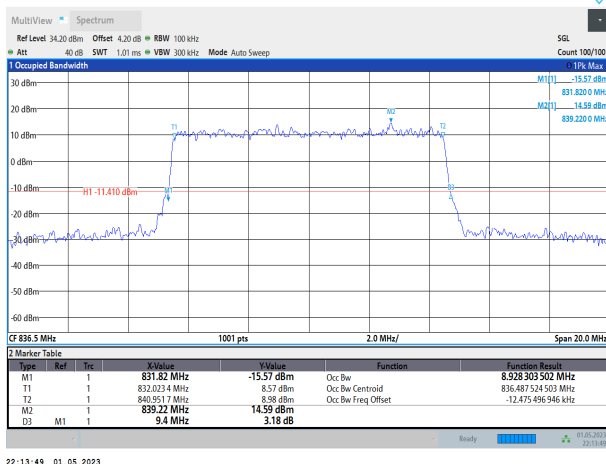
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Band5-10MHz-16QAM-20450-50RB#0



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

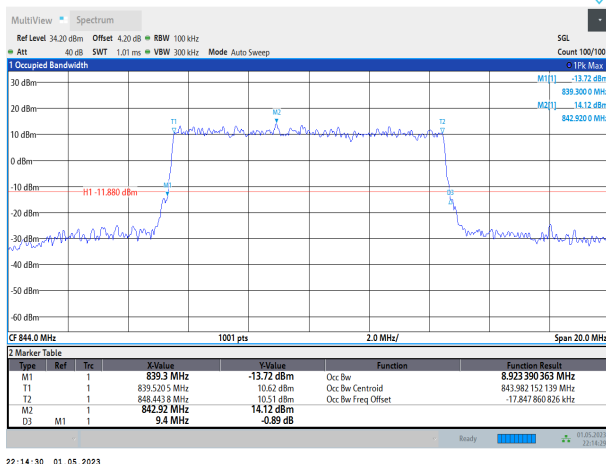


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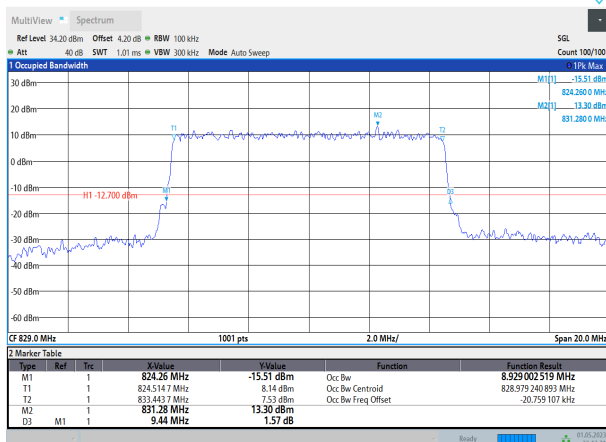
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Band5-10MHz-16QAM-20600-50RB#0



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



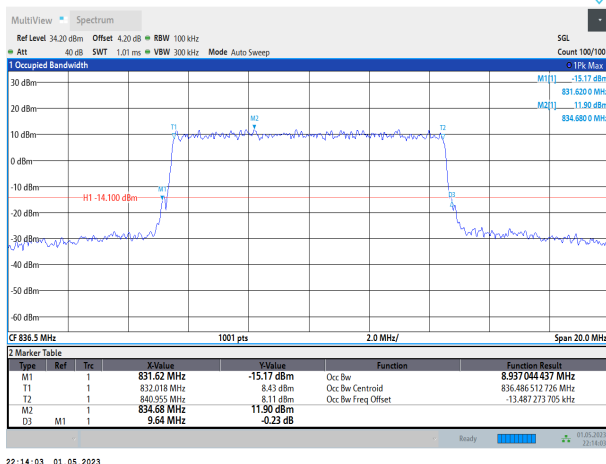
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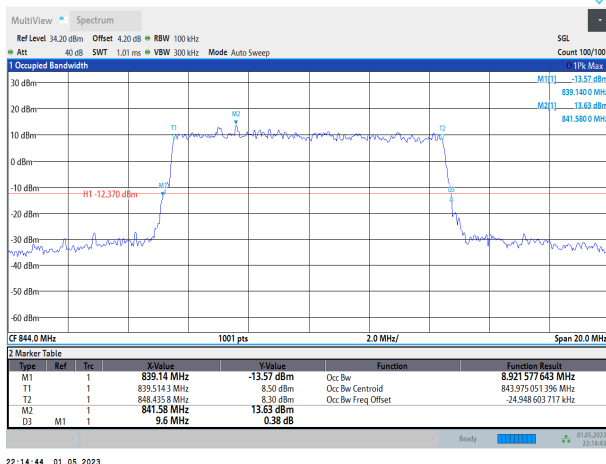
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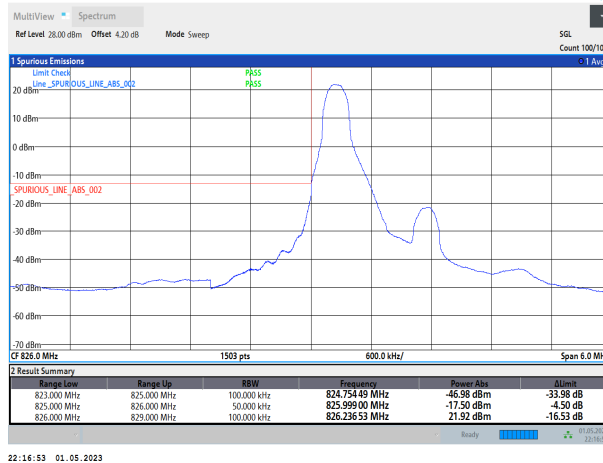
Band5-10MHz-64QAM-20600-50RB#0



Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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



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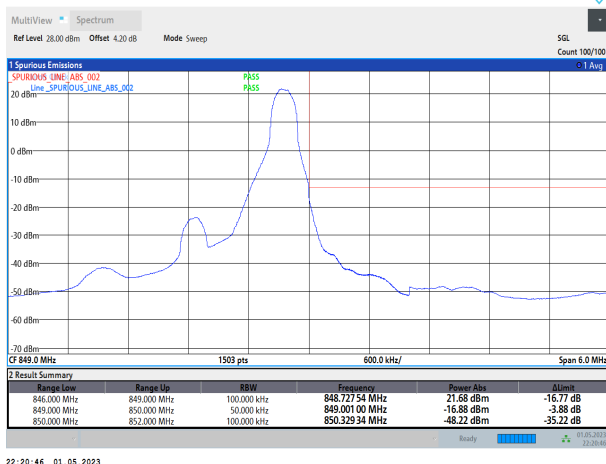
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Band5-1.4MHz-QPSK-20643-1RB#5



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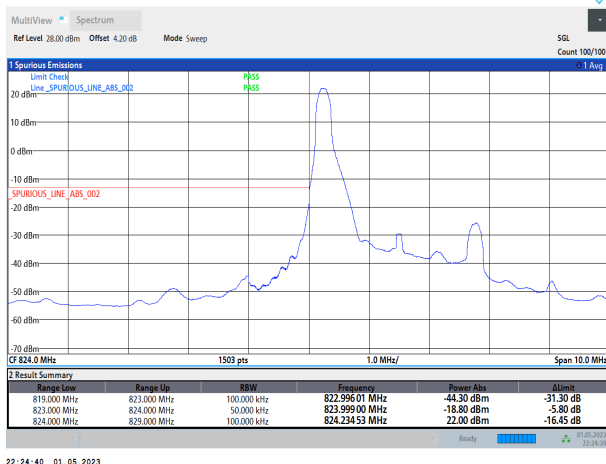
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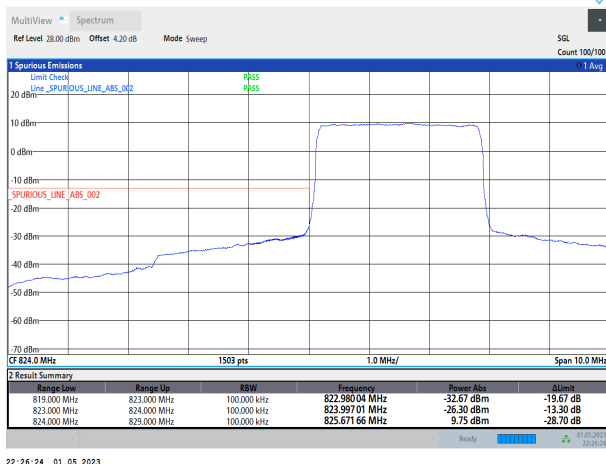
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Band5-3MHz-QPSK-20415-15RB#0



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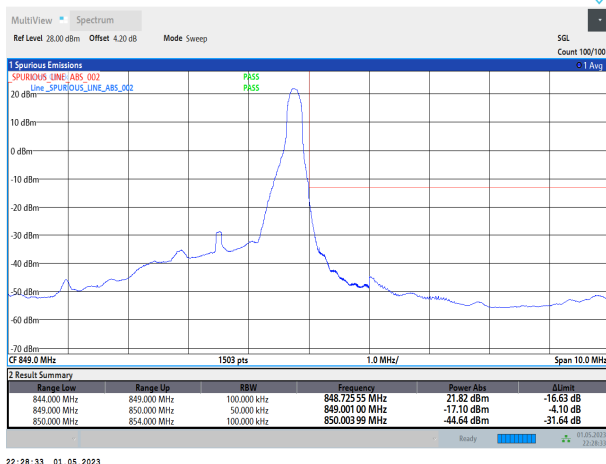
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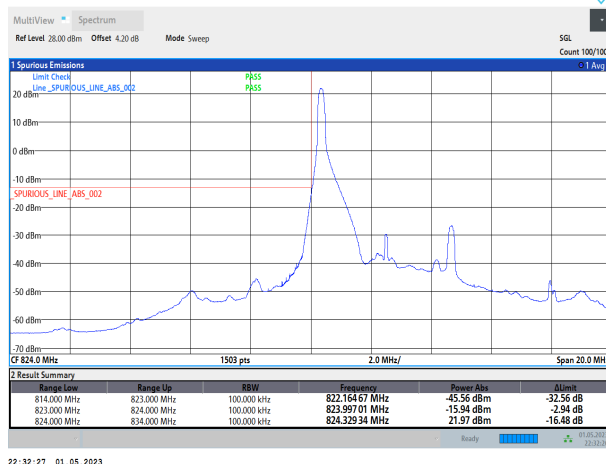
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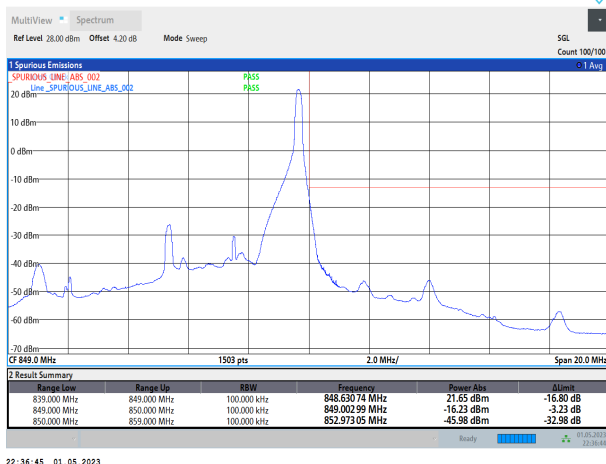
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Band5-5MHz-QPSK-20625-25RB#0



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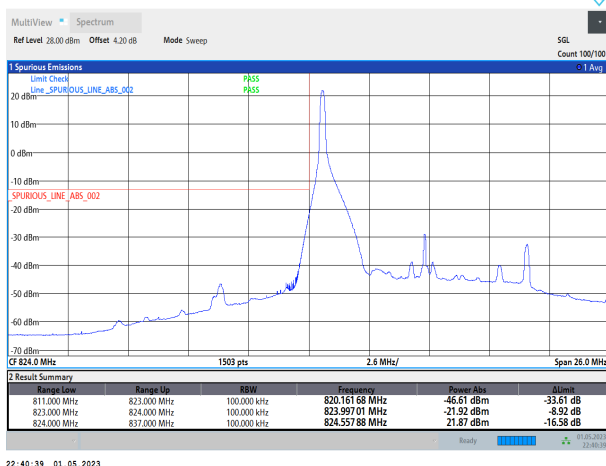
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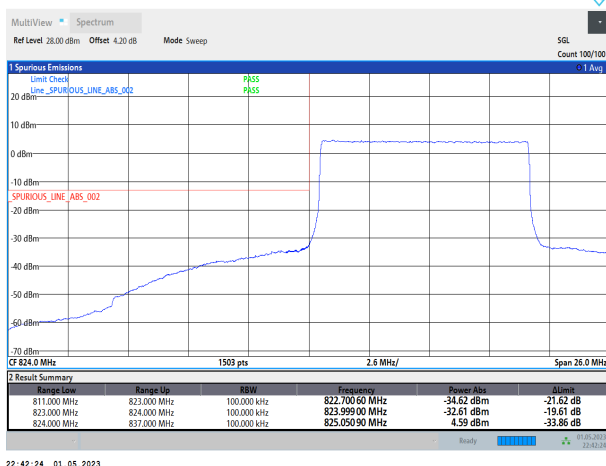
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Band5-10MHz-QPSK-20450-1RB#0



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



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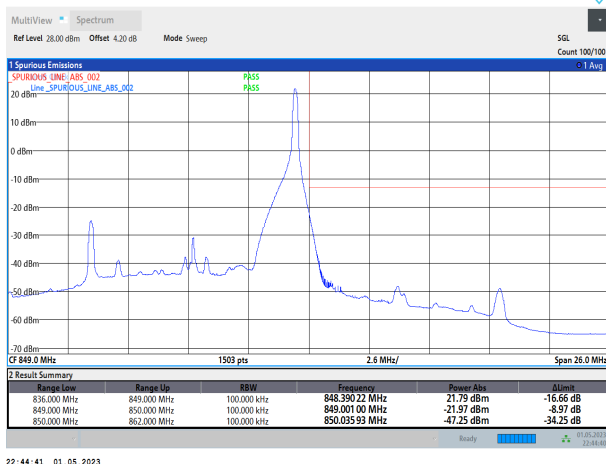
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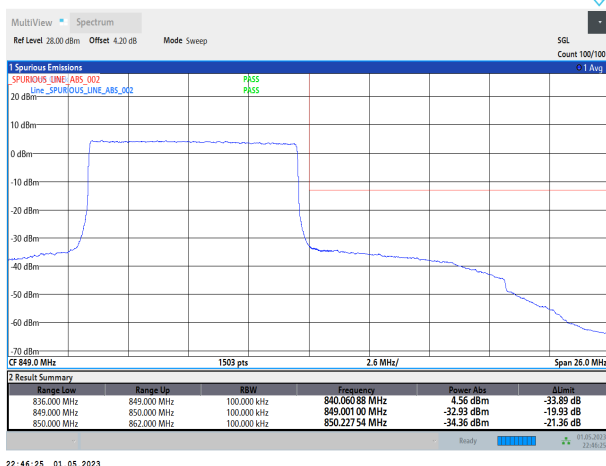
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Band5-10MHz-QPSK-20600-1RB#49



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



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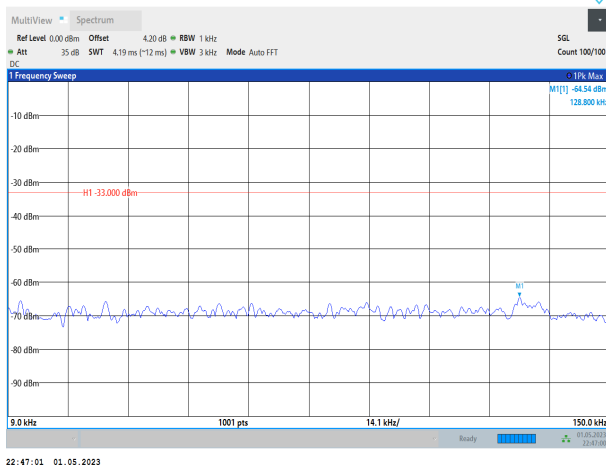
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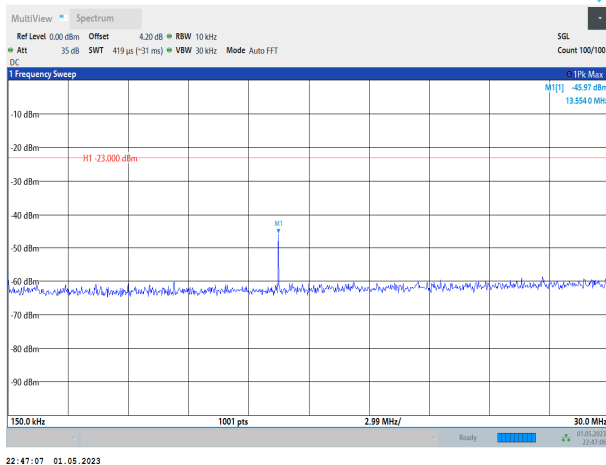
Conducted Spurious Emission

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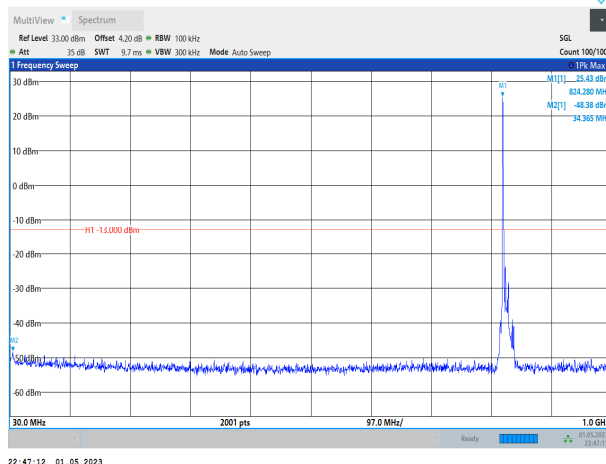
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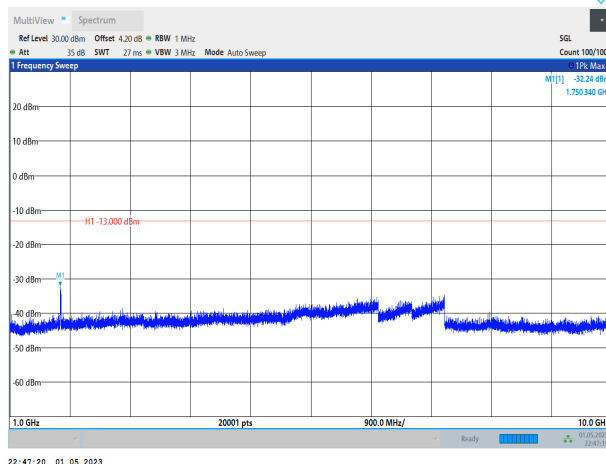
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Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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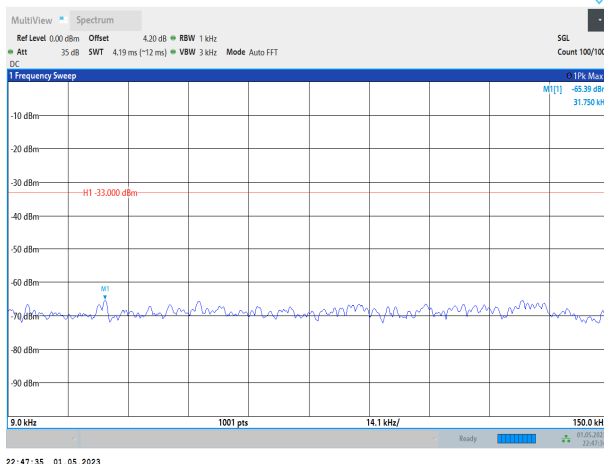
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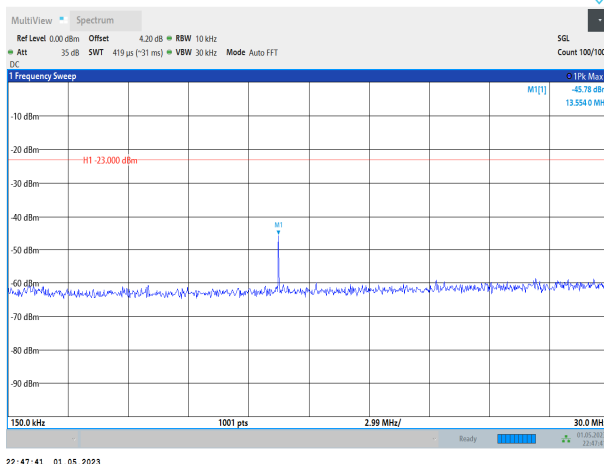
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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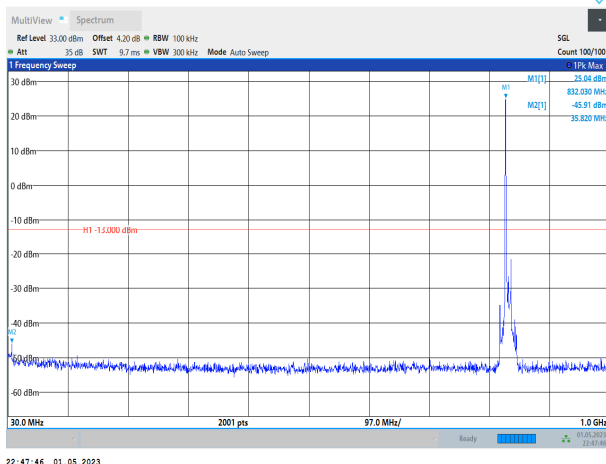
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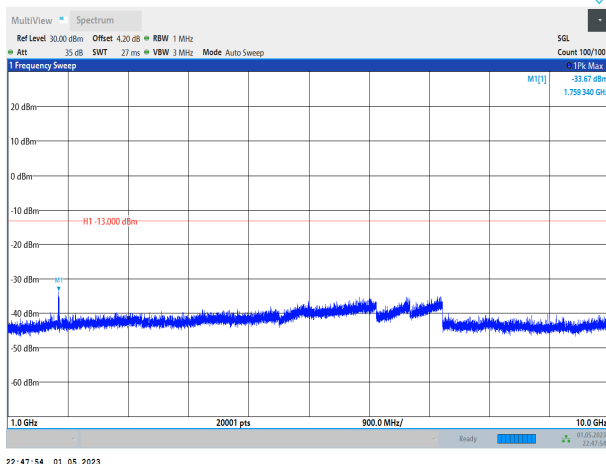
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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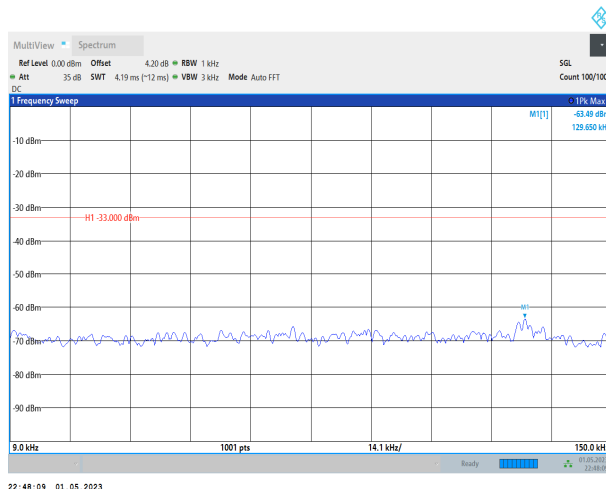


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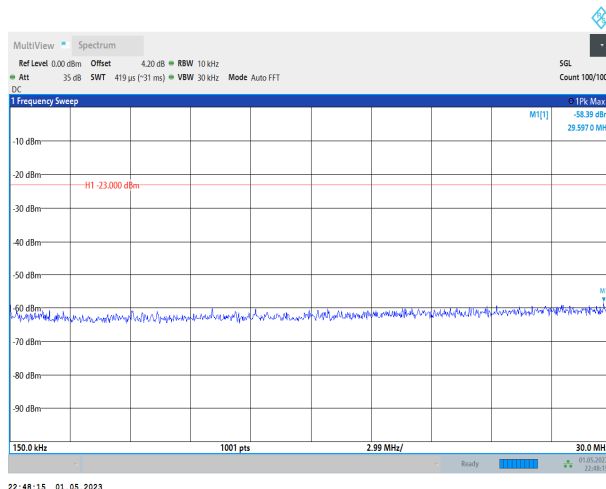
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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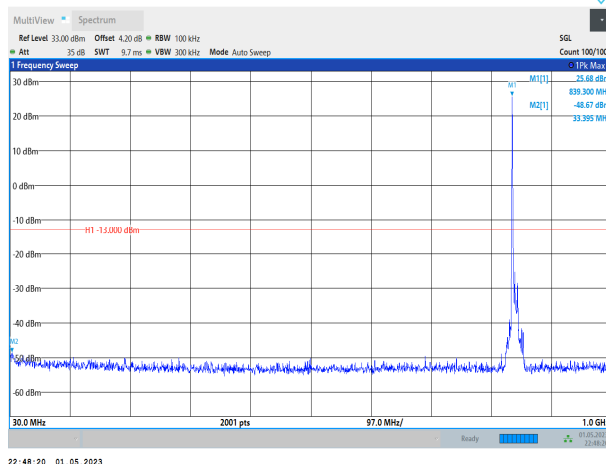
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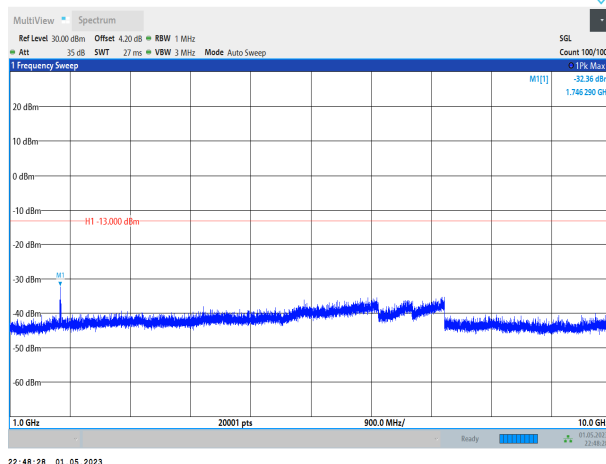
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE B5_ 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	1649.1800	44.60	-48.22	25.37	-73.51	-13.00	60.51	157	352	Horizontal
2	2473.7700	43.61	-47.32	27.69	-71.28	-13.00	58.28	163	343	Horizontal
3	3298.3600	43.50	-46.68	29.56	-68.88	-13.00	55.88	188	352	Horizontal
4	4122.9500	41.53	-45.91	30.99	-68.66	-13.00	55.66	215	239	Horizontal
5	4947.5400	41.98	-45.69	32.73	-66.24	-13.00	53.24	169	133	Horizontal
6	5772.1300	40.80	-44.64	33.65	-65.45	-13.00	52.45	132	226	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	44.73	-48.22	25.37	-73.38	-13.00	60.38	162	308	Vertical
2	2473.7700	43.75	-47.32	27.69	-71.14	-13.00	58.14	169	97	Vertical
3	3298.3600	43.02	-46.68	29.56	-69.36	-13.00	56.36	187	10	Vertical
4	4122.9500	41.64	-45.91	30.99	-68.55	-13.00	55.55	236	214	Vertical
5	4947.5400	41.84	-45.69	32.73	-66.38	-13.00	53.38	159	357	Vertical
6	5772.1300	40.44	-44.64	33.65	-65.81	-13.00	52.81	221	69	Vertical



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Test Band = LTE B5_ 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	1674.8571	52.34	-48.19	25.38	-65.73	-13.00	52.73	153	212	Horizontal
2	2496.2700	43.87	-47.28	27.76	-70.91	-13.00	57.91	198	3	Horizontal
3	3328.3600	43.24	-46.64	29.52	-69.14	-13.00	56.14	126	144	Horizontal
4	4160.4500	41.63	-45.94	31.04	-68.53	-13.00	55.53	193	224	Horizontal
5	4992.5400	41.49	-45.79	32.86	-66.70	-13.00	53.70	214	117	Horizontal
6	5824.6300	41.10	-44.74	33.80	-65.10	-13.00	52.10	256	342	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	1671.4286	49.66	-48.19	25.38	-68.42	-13.00	55.42	152	243	Vertical
2	2496.2700	43.75	-47.28	27.76	-71.03	-13.00	58.03	162	0	Vertical
3	3328.3600	43.52	-46.64	29.52	-68.86	-13.00	55.86	154	357	Vertical
4	4160.4500	41.36	-45.94	31.04	-68.80	-13.00	55.80	159	269	Vertical
5	4992.5400	41.60	-45.79	32.86	-66.59	-13.00	53.59	131	357	Vertical
6	5824.6300	40.98	-44.74	33.80	-65.22	-13.00	52.22	225	4	Vertical



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Test Band = LTE B5_ 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	1684.5714	49.88	-48.18	25.38	-68.17	-13.00	55.17	108	264	Horizontal
2	2518.7700	43.21	-47.21	27.83	-71.42	-13.00	58.42	162	264	Horizontal
3	3358.3600	42.90	-46.60	29.48	-69.48	-13.00	56.48	157	197	Horizontal
4	4197.9500	42.07	-45.96	31.10	-68.05	-13.00	55.05	159	359	Horizontal
5	5037.5400	41.25	-45.65	32.90	-66.76	-13.00	53.76	223	250	Horizontal
6	5887.1300	41.43	-44.93	33.92	-64.84	-13.00	51.84	169	302	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	1688.5714	47.18	-48.17	25.39	-70.87	-13.00	57.87	102	270	Vertical
2	2518.7700	43.74	-47.21	27.83	-70.89	-13.00	57.89	196	256	Vertical
3	3358.3600	43.03	-46.60	29.48	-69.35	-13.00	56.35	258	256	Vertical
4	4197.9500	41.17	-45.96	31.10	-68.95	-13.00	55.95	147	243	Vertical
5	5037.5400	40.79	-45.65	32.90	-67.22	-13.00	54.22	169	56	Vertical
6	5887.1300	40.81	-44.93	33.92	-65.46	-13.00	52.46	132	0	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-5.50	-0.006575	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-9.90	-0.011835	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-4.40	-0.005260	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-5.90	-0.007053	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.80	-0.002152	±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	0	-6.40	-0.007651	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-5.50	-0.006575	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-9.90	-0.011835	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.90	-0.004662	±2.5	PASS

---End of Attachment---



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