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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	23.12	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.98	19.61	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.7	19.33	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.27	17.9	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.72	19.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.68	19.31	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.68	19.31	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.31	17.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.71	19.34	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.7	19.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.68	19.31	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.32	17.95	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.09	18.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.02	18.65	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.81	18.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	19.97	16.6	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.88	18.51	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.88	18.51	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.79	18.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.04	16.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.86	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.93	18.56	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.9	18.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.02	16.65	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.12	17.75	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.88	17.51	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.88	17.51	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.03	15.66	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.02	17.65	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.95	17.58	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.91	17.54	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	18.87	15.5	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.87	17.5	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.88	17.51	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.89	17.52	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	18.71	15.34	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.6	19.23	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.71	19.34	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.68	19.31	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.4	18.03	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.72	19.35	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.7	19.33	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.58	19.21	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.38	18.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.8	19.43	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.82	19.45	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.68	19.31	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.39	18.02	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.82	18.45	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.96	18.59	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.87	18.5	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.43	17.06	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.09	18.72	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.88	18.51	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.95	18.58	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.42	17.05	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.37	18	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.31	17.94	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.39	18.02	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	20.56	17.19	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.98	17.61	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.84	17.47	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.98	17.61	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.02	15.65	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.99	17.62	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.93	17.56	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.88	17.51	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.01	15.64	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.29	17.92	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.19	17.82	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.21	17.84	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	18.77	15.4	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.72	19.35	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.78	19.41	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.73	19.36	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.29	17.92	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.83	19.46	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.72	19.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.63	19.26	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.34	17.97	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.76	19.39	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.75	19.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.63	19.26	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.4	18.03	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.34	17.97	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.41	18.04	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.32	17.95	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.56	17.19	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.42	18.05	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.44	18.07	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.22	17.85	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	20.55	17.18	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.95	18.58	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.98	18.61	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.85	18.48	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.4	17.03	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.23	17.86	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.3	17.93	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.25	17.88	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	18.92	15.55	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.38	18.01	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.26	17.89	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.25	17.88	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.04	15.67	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.93	17.56	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.95	17.58	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.88	17.51	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	18.76	15.39	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.64	19.27	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.65	19.28	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.71	19.34	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.31	17.94	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.77	19.4	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.67	19.3	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.74	19.37	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.31	17.94	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.77	19.4	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.8	19.43	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.73	19.36	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.31	17.94	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.12	18.75	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.1	18.73	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.09	18.72	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	20.38	17.01	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.21	18.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.21	18.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.06	18.69	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.48	17.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.65	18.28	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.64	18.27	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.51	18.14	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.45	17.08	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.93	17.56	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.85	17.48	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.9	17.53	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	18.96	15.59	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.03	17.66	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21	17.63	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.99	17.62	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.04	15.67	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.31	17.94	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.31	17.94	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.29	17.92	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	18.74	15.37	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	5.58	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.44	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.34	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.34	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.04	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.76	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.56	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.48	13	PASS



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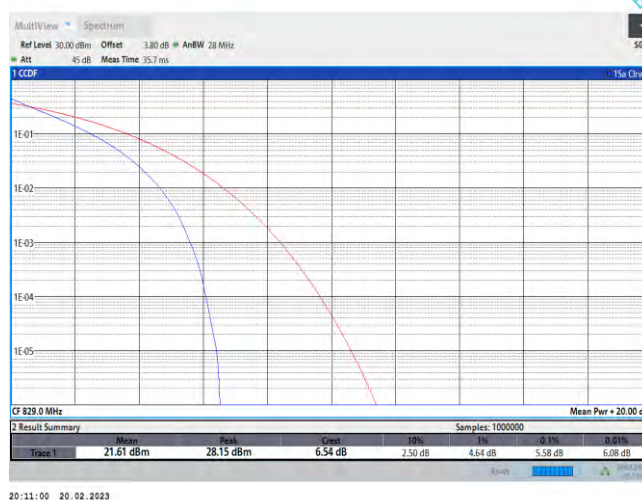
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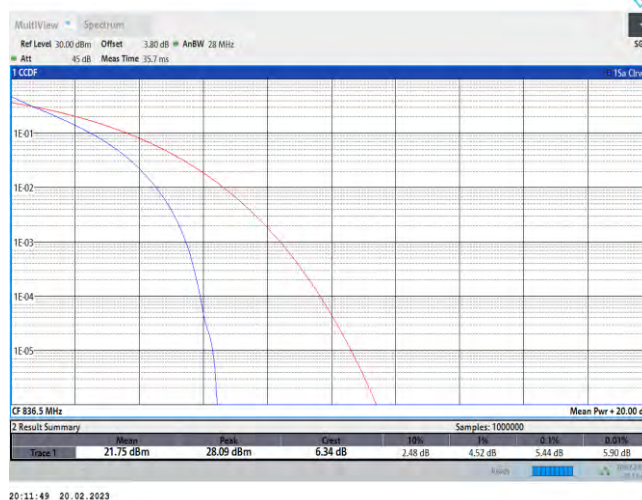
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Test Graphs

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



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



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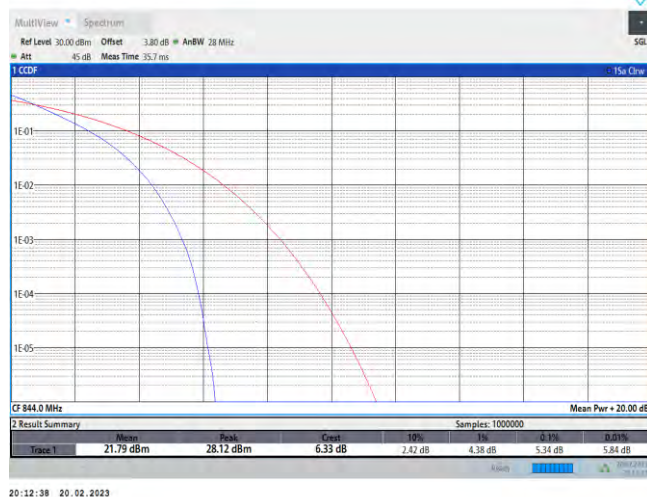
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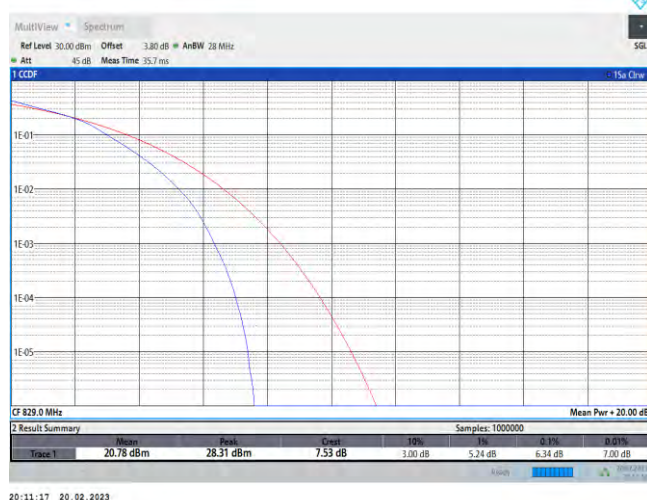
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Band5-10MHz-QPSK-20600-50RB#0



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



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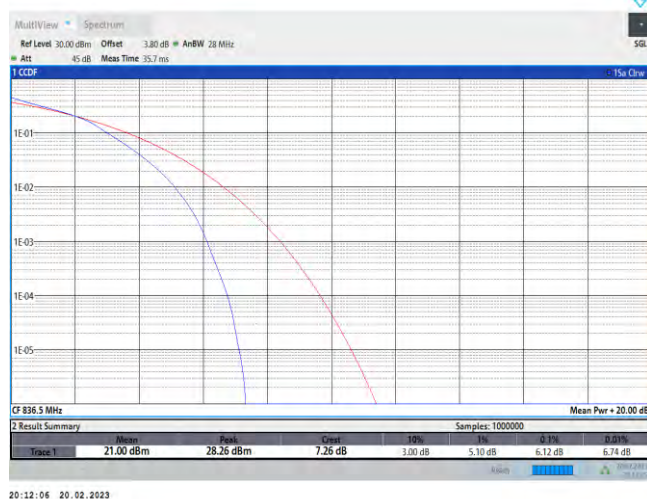
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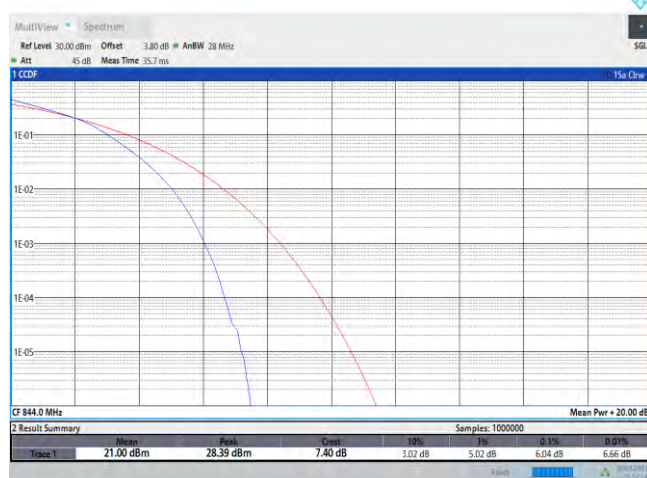
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Band5-10MHz-16QAM-20525-50RB#0



20:12:06 20.02.2023

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



20:12:55 20.02.2023



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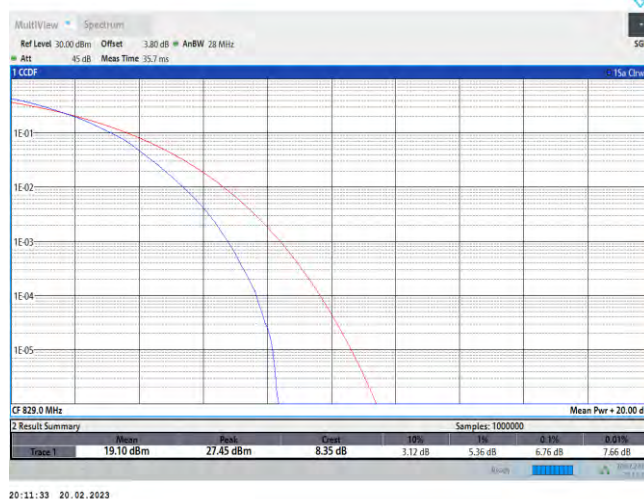
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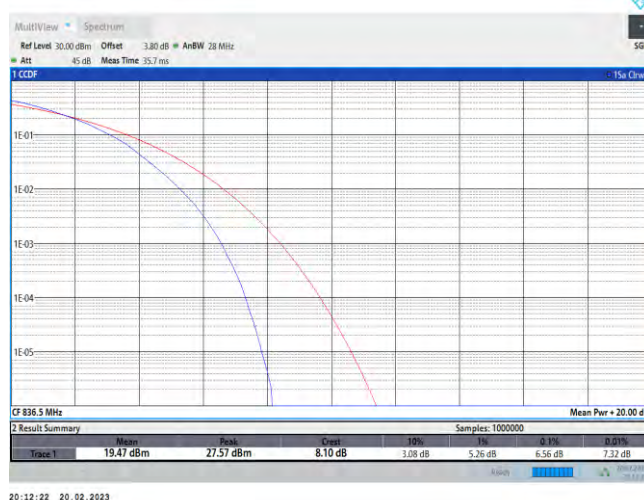
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Band5-10MHz-64QAM-20450-50RB#0



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



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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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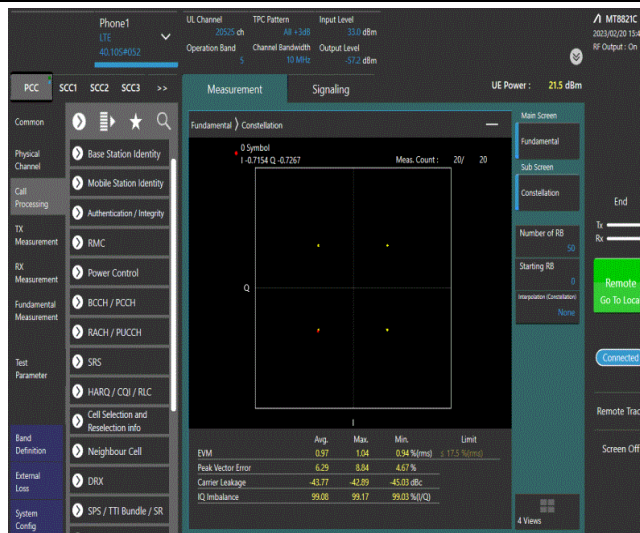
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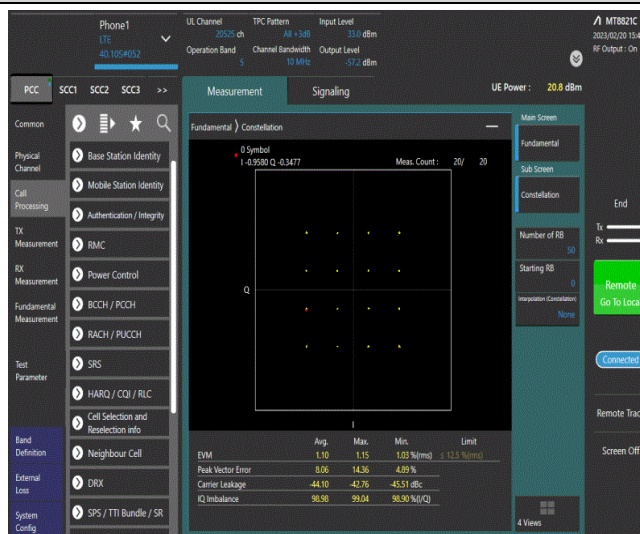
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Test Graphs

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



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



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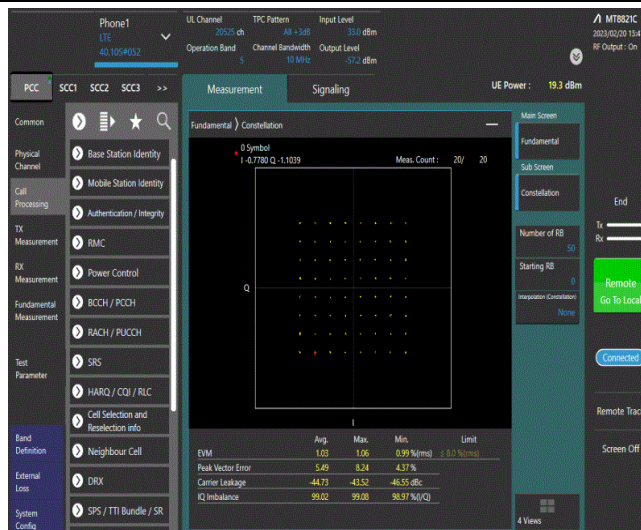
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Band5-10MHz-64QAM-20525-50RB#0



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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	1.09	1.25	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.089	1.25	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.089	1.25	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.095	1.25	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.099	1.25	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.1	1.25	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.1	1.25	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.103	1.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.704	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.699	3.03	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.702	3.03	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.708	3.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.695	3.04	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.697	3.03	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.701	3.04	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.695	3.02	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.694	3.03	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.473	4.93	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.471	4.90	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.469	4.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.471	4.93	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.467	4.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.468	4.93	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.482	4.91	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.482	4.92	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.478	4.91	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.958	9.84	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.935	9.76	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.94	9.80	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.937	9.78	PASS



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Band5	10MHz	16QAM	20525	50RB#0	8.926	9.78	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.93	9.78	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.955	9.88	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.941	9.84	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.957	9.76	PASS



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Test Graphs

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



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



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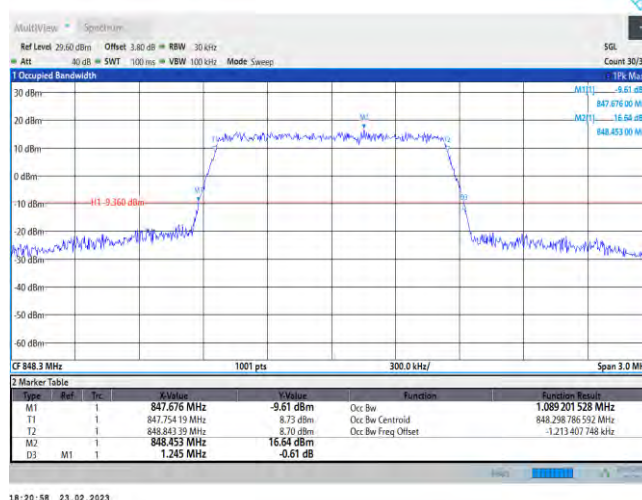
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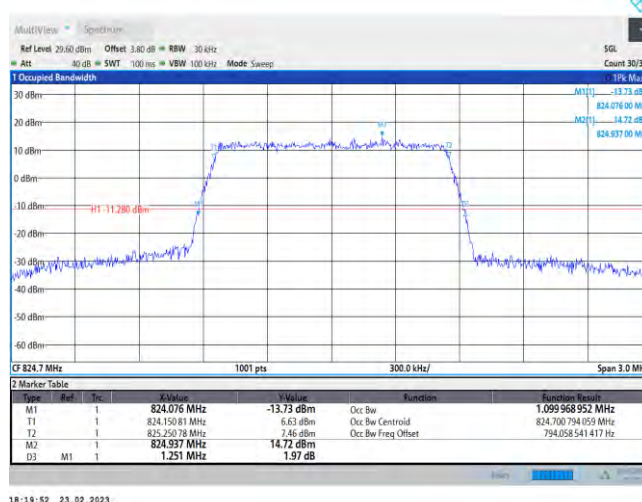
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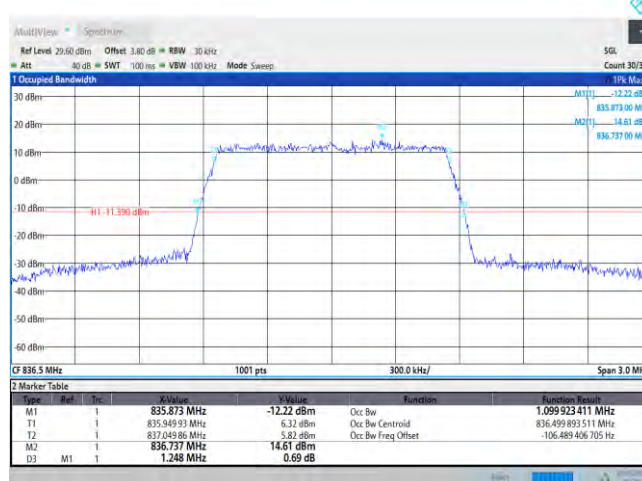
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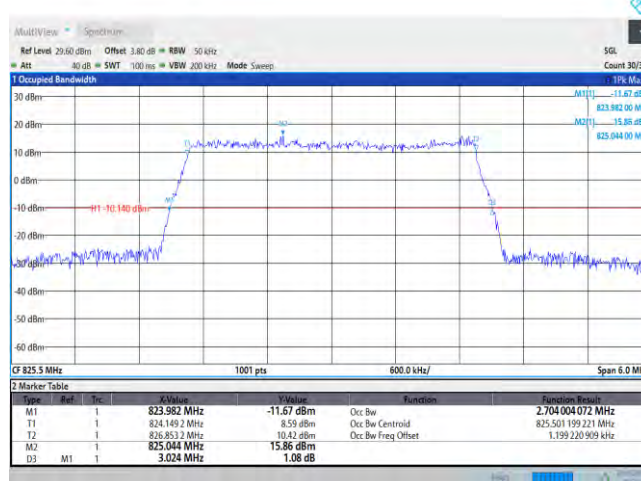
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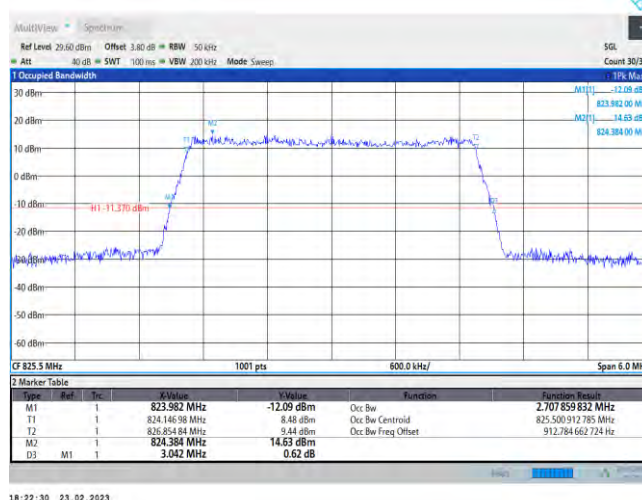
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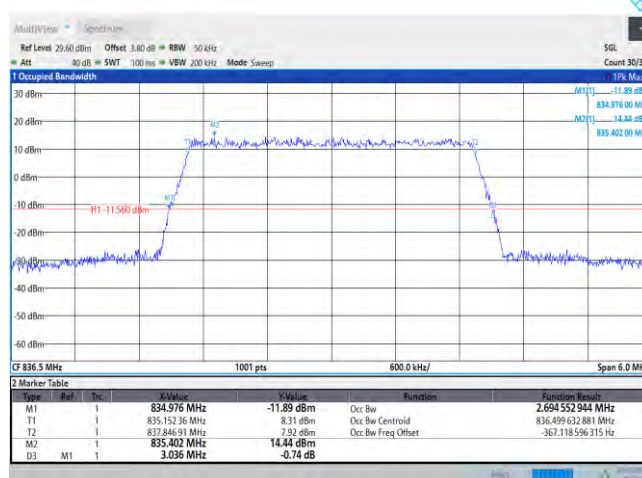
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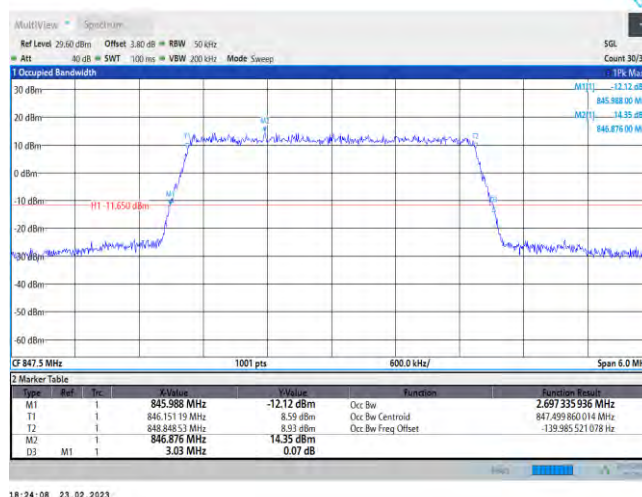
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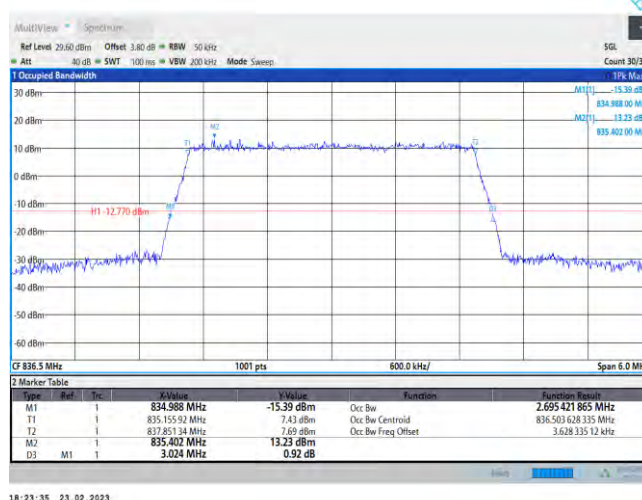
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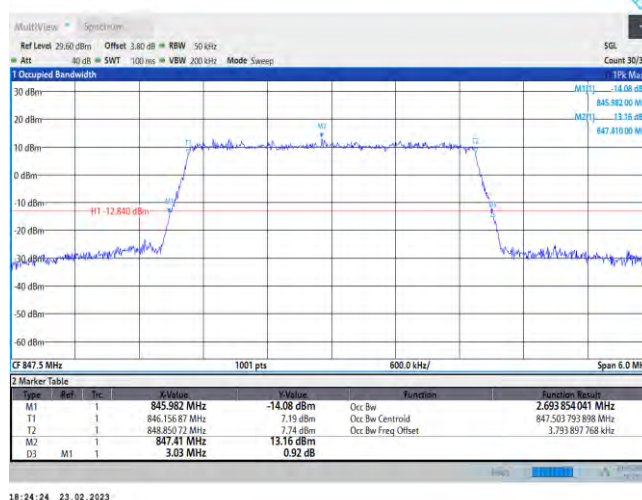
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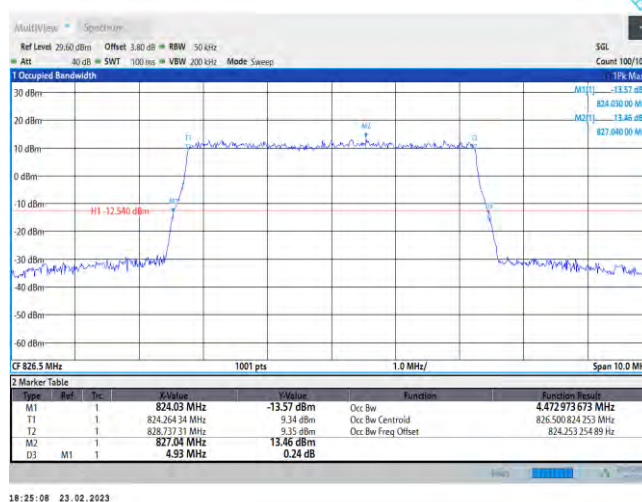
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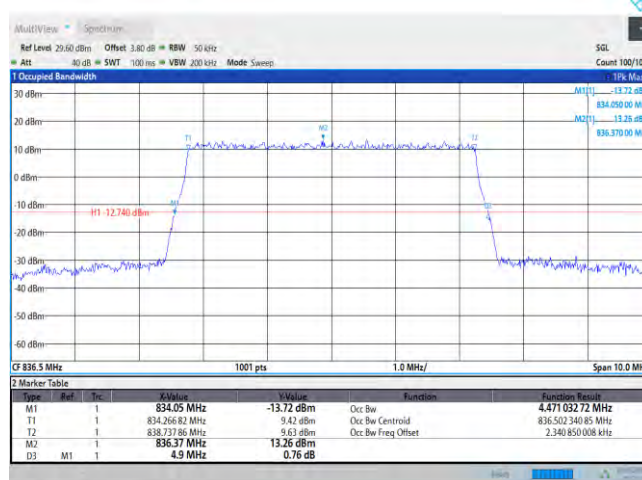
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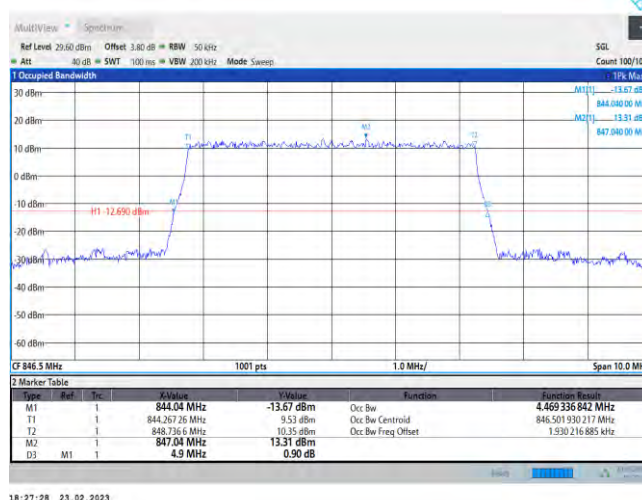
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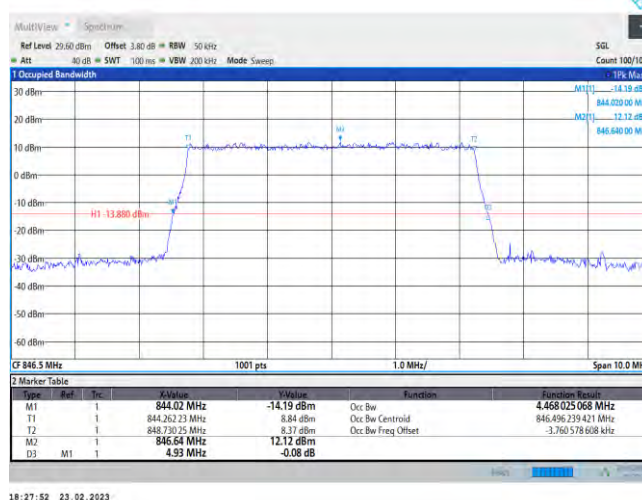
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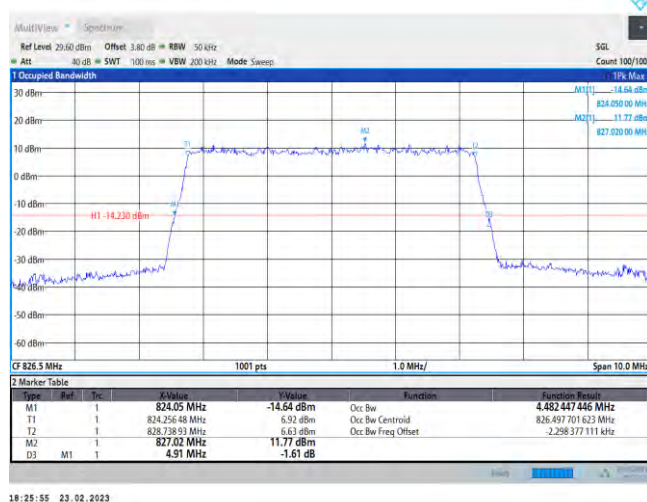
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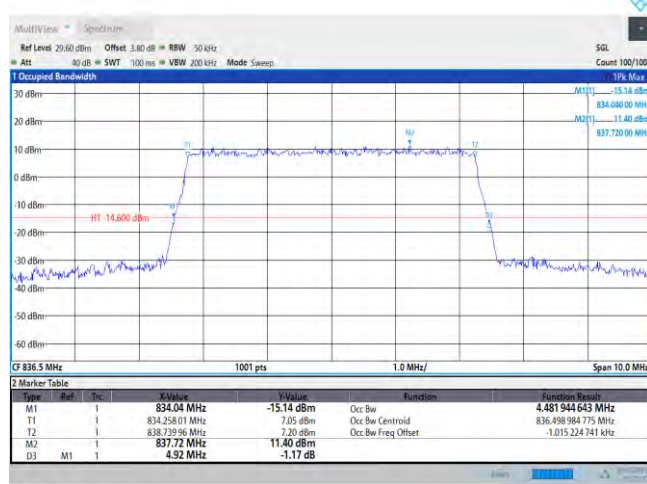
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Band5-5MHz-64QAM-20525-25RB#0



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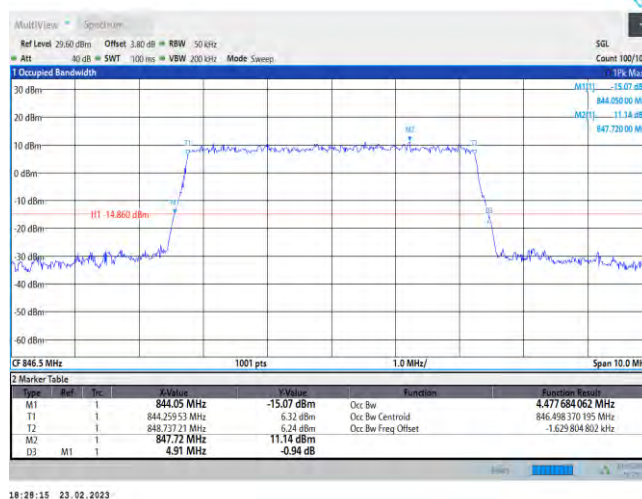
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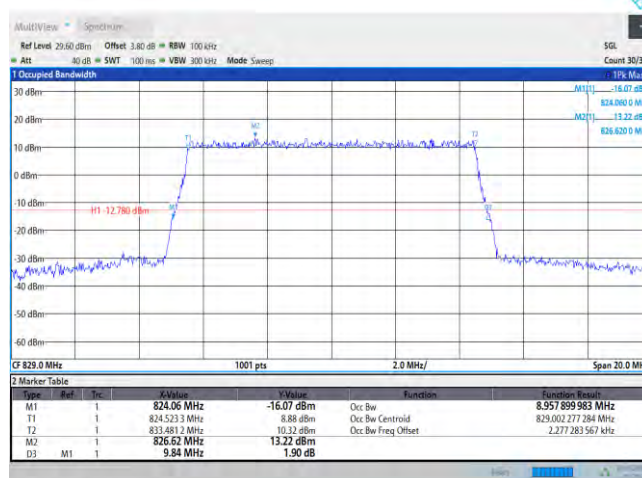
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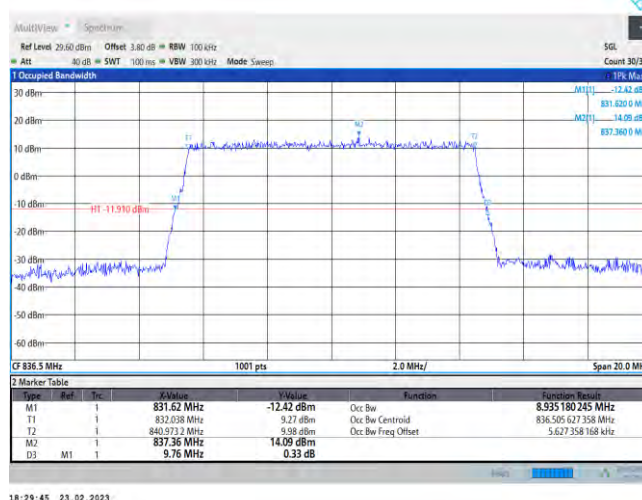
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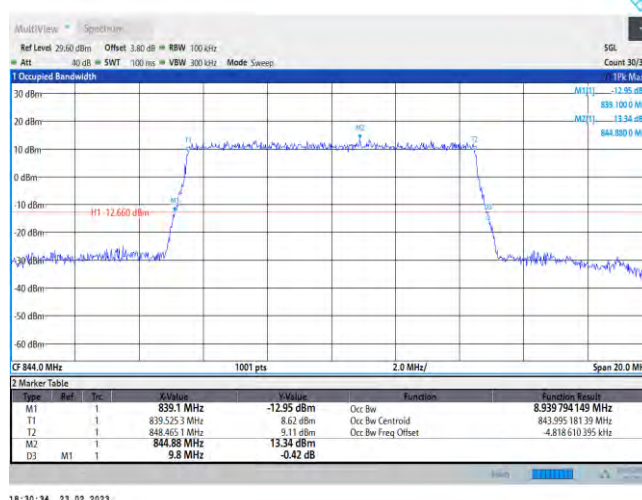
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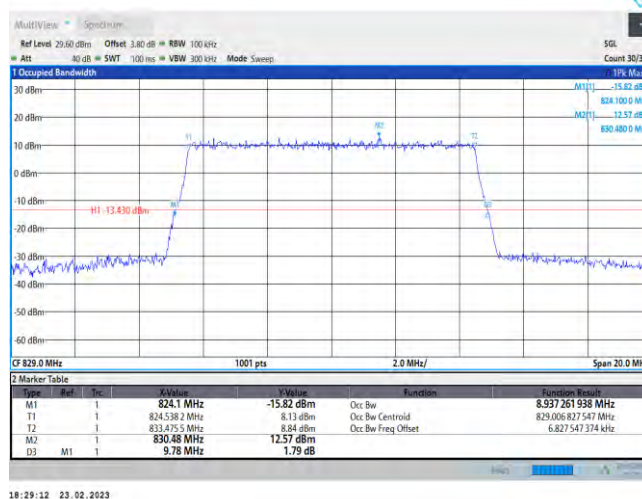
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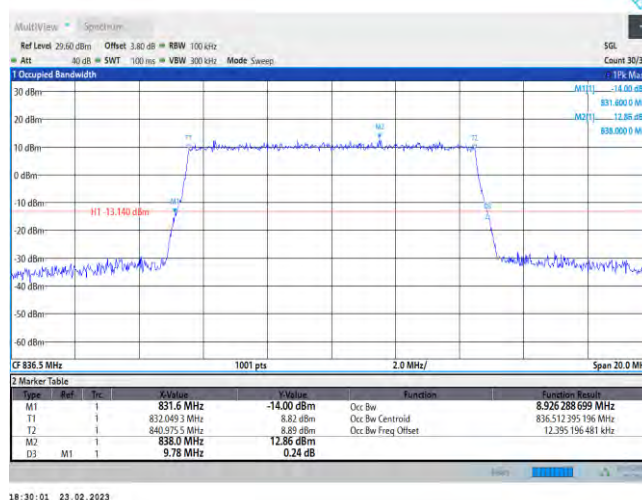
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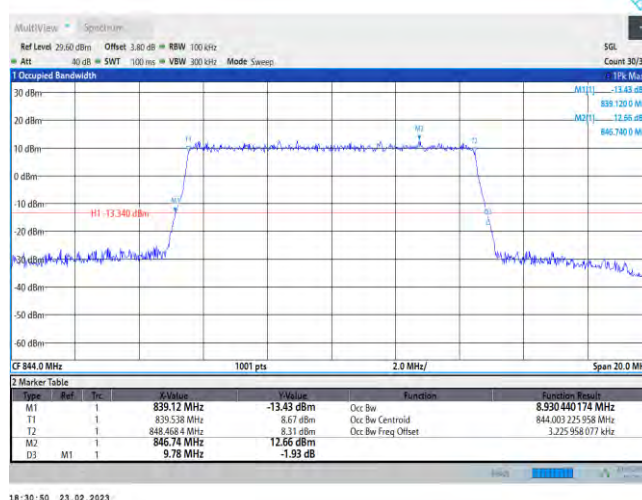
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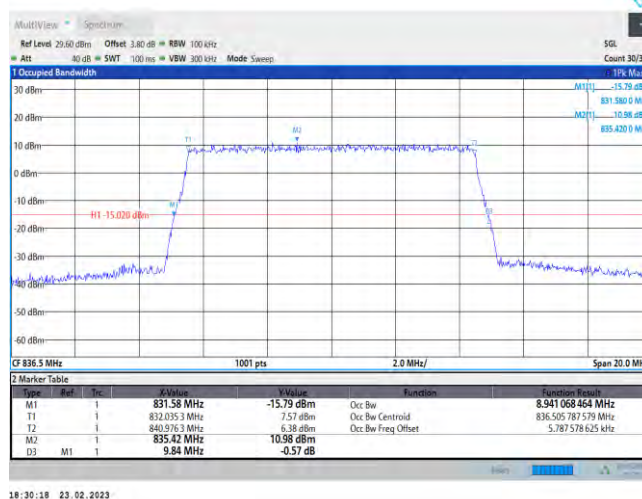
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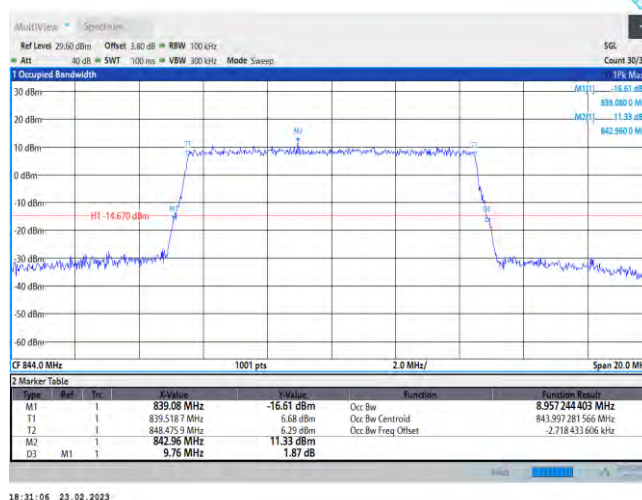
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Band Edge

Test Graphs

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



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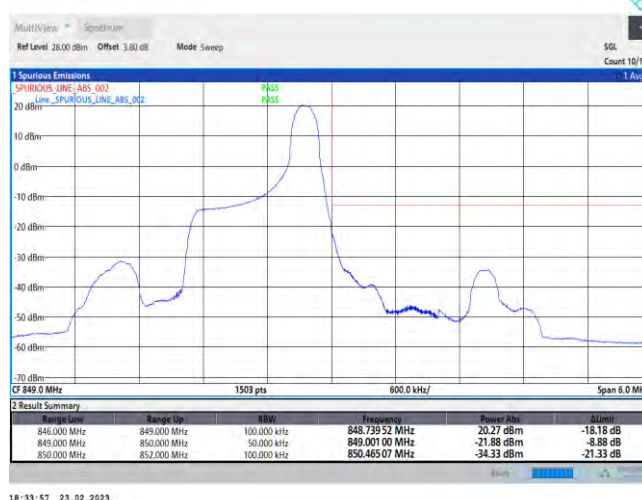
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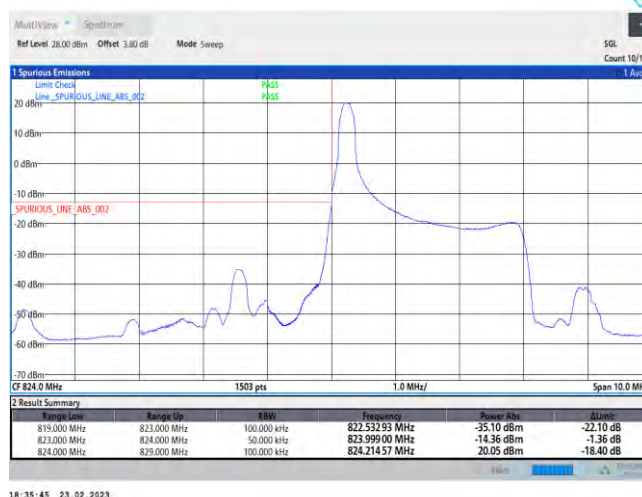
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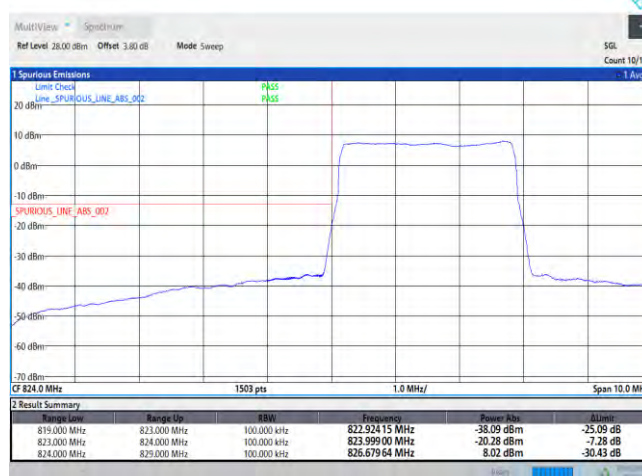
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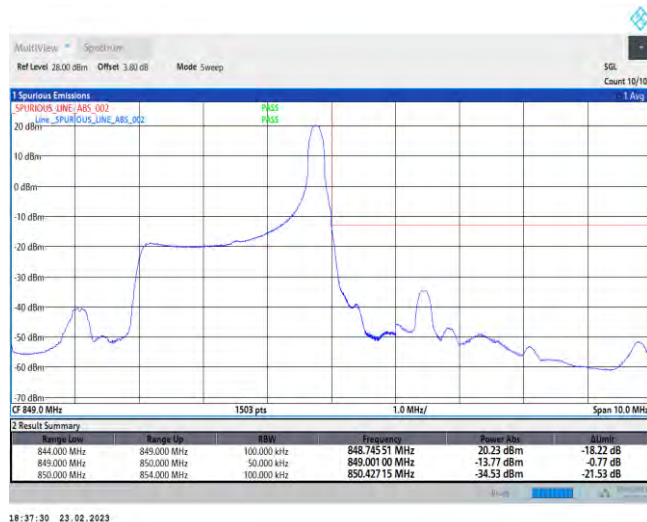
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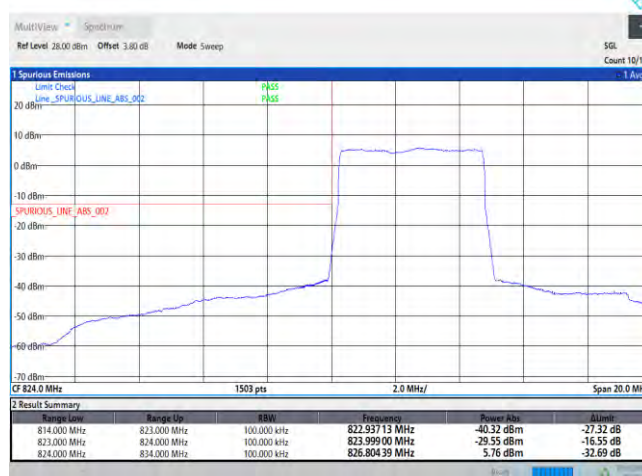
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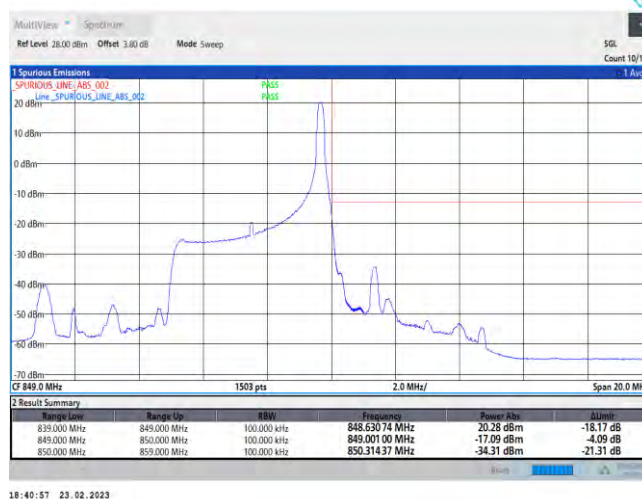
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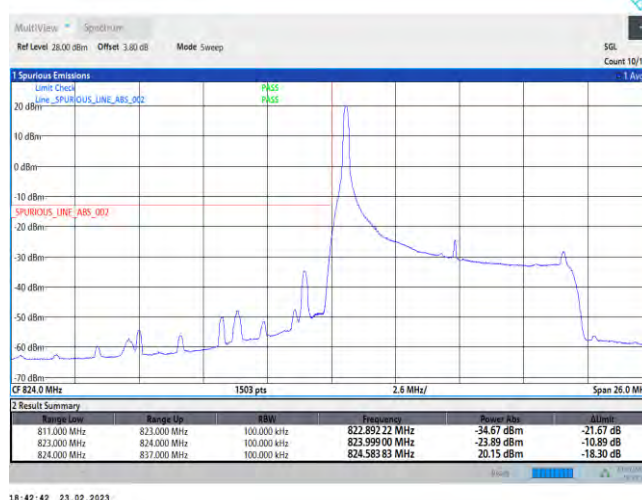
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Band5-10MHz-QPSK-20450-50RB#0



18:43:20 23.02.2023



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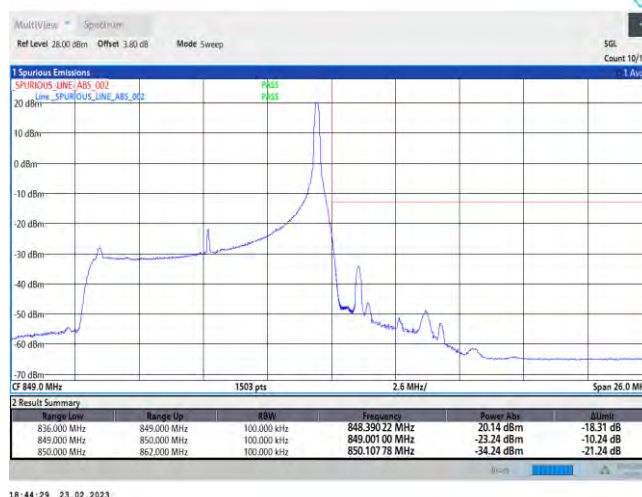
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Band5-10MHz-QPSK-20600-1RB#49



18:44:29 23.02.2023

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



18:45:07 23.02.2023



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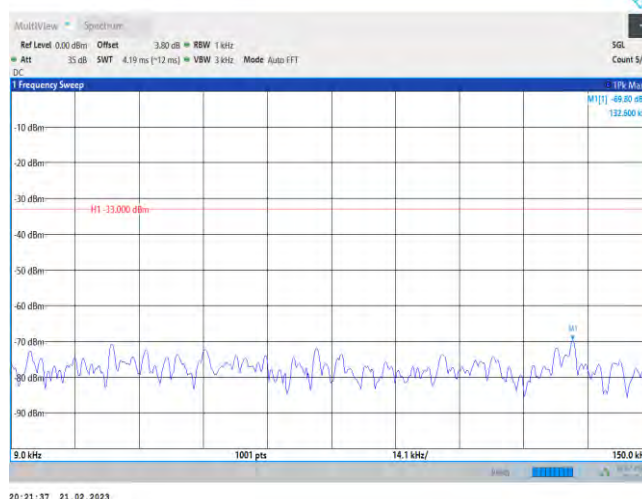
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Conducted Spurious Emission

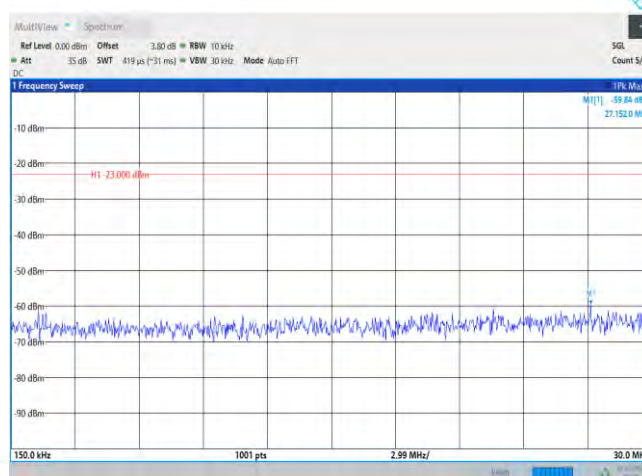
Test Graphs

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



20:21:37 21.02.2023

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



20:21:40 21.02.2023



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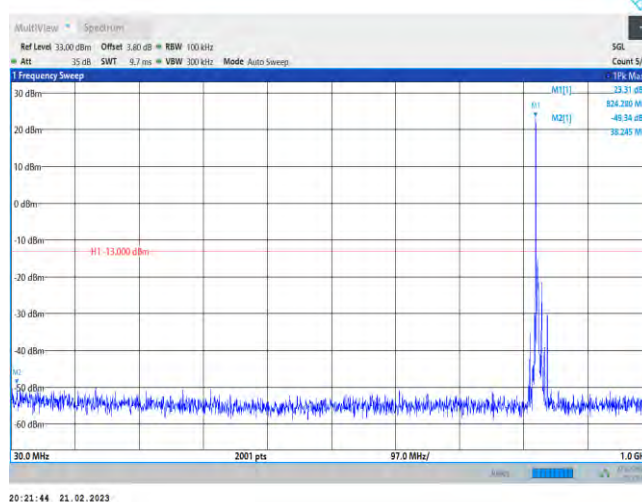
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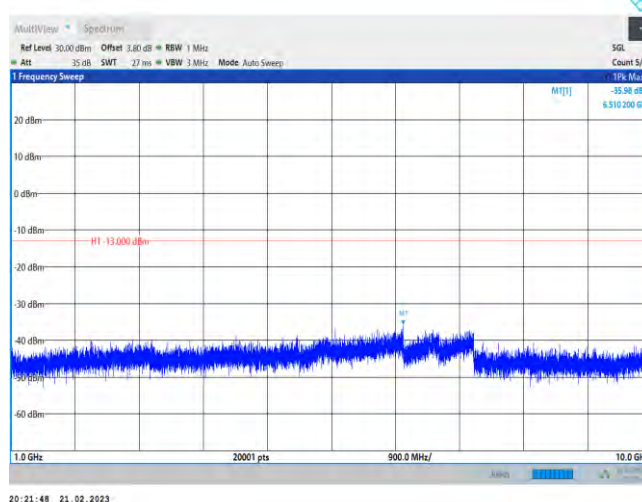
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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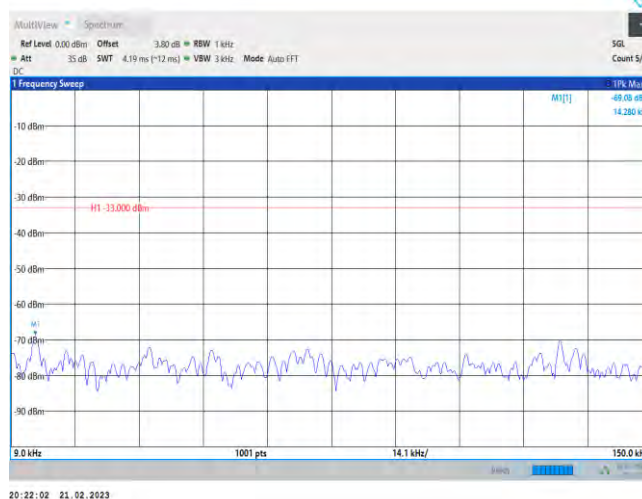
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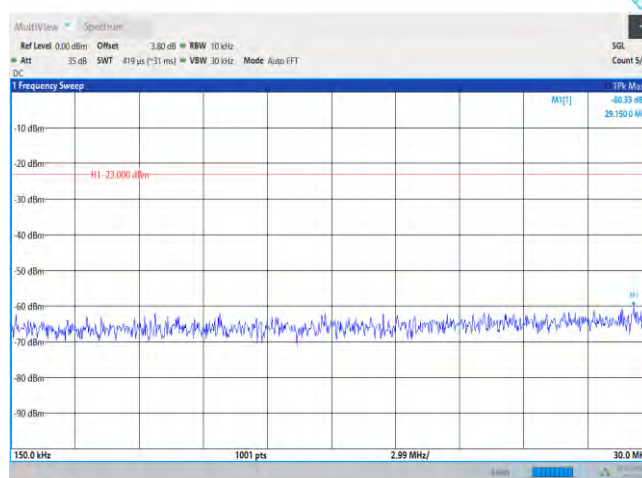
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



20:22:02 21.02.2023

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



20:22:05 21.02.2023



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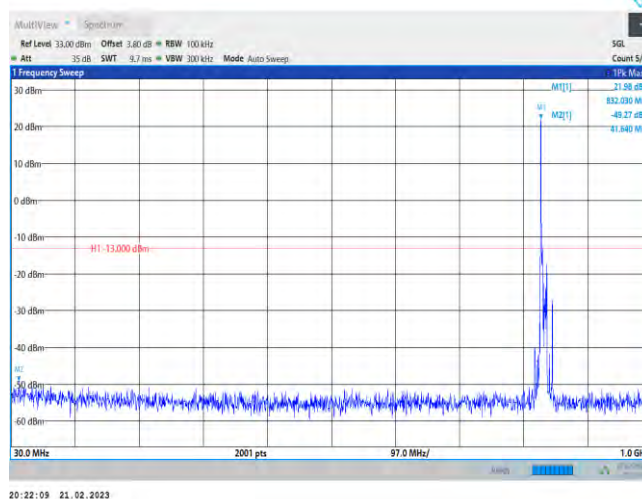
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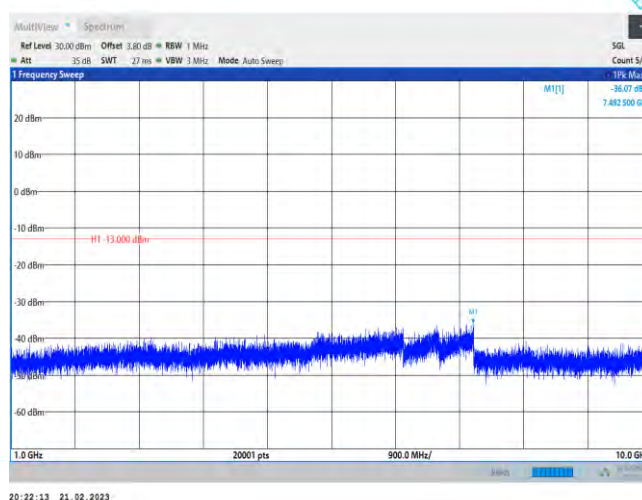
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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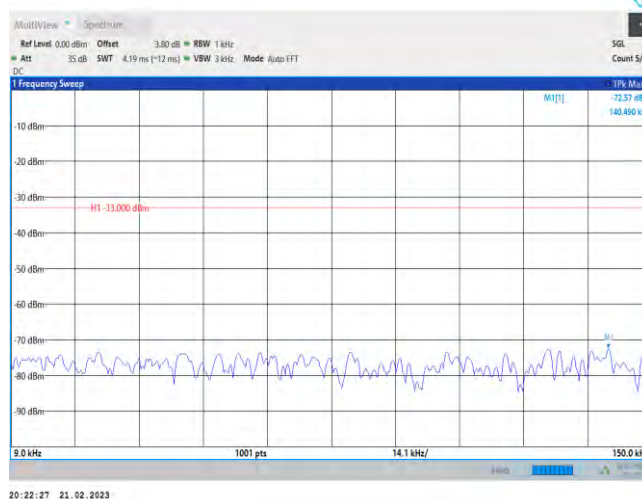
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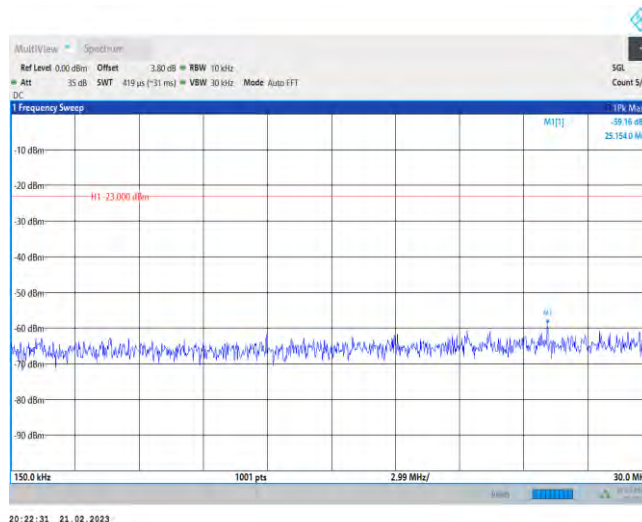
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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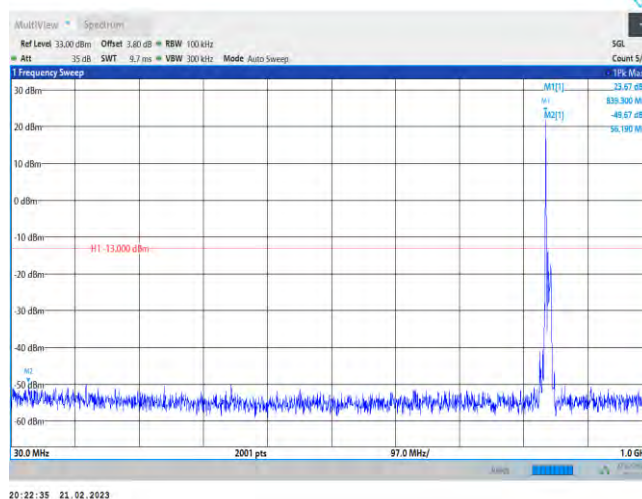
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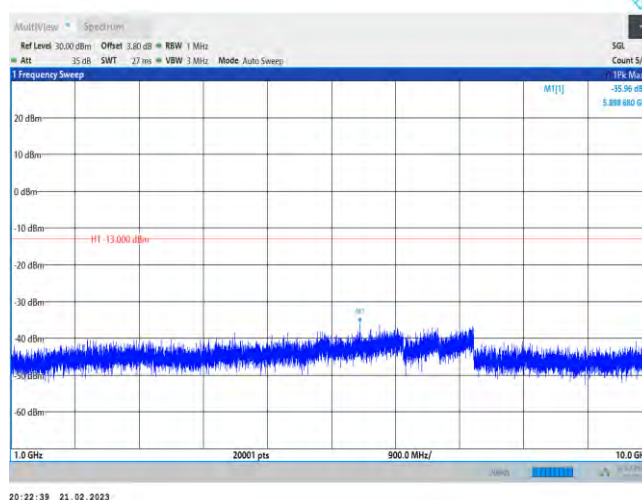
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ 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	52.33	-48.22	25.37	-65.78	-13.00	52.78	162	348	Horizontal
2	2473.7700	43.00	-47.32	27.69	-71.89	-13.00	58.89	196	202	Horizontal
3	3298.3600	42.82	-46.68	29.56	-69.56	-13.00	56.56	188	348	Horizontal
4	4122.9500	41.66	-45.91	30.99	-68.53	-13.00	55.53	185	227	Horizontal
5	4947.5400	41.53	-45.69	32.73	-66.69	-13.00	53.69	209	358	Horizontal
6	5772.1300	40.04	-44.64	33.65	-66.21	-13.00	53.21	177	227	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	55.32	-48.22	25.37	-62.79	-13.00	49.79	166	298	Vertical
2	2473.7700	42.72	-47.32	27.69	-72.17	-13.00	59.17	153	272	Vertical
3	3298.3600	42.77	-46.68	29.56	-69.61	-13.00	56.61	196	140	Vertical
4	4122.9500	41.35	-45.91	30.99	-68.84	-13.00	55.84	203	357	Vertical
5	4947.5400	41.66	-45.69	32.73	-66.56	-13.00	53.56	187	336	Vertical
6	5772.1300	40.22	-44.64	33.65	-66.03	-13.00	53.03	185	99	Vertical



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Test Band = LTE Band5_ 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	1664.1800	48.67	-48.20	25.38	-69.42	-13.00	56.42	165	338	Horizontal
2	2496.2700	43.62	-47.28	27.76	-71.16	-13.00	58.16	195	274	Horizontal
3	3328.3600	42.62	-46.64	29.52	-69.76	-13.00	56.76	203	200	Horizontal
4	4160.4500	41.31	-45.94	31.04	-68.85	-13.00	55.85	168	13	Horizontal
5	4992.5400	40.77	-45.79	32.86	-67.42	-13.00	54.42	203	360	Horizontal
6	5824.6300	40.87	-44.74	33.80	-65.33	-13.00	52.33	188	248	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	51.66	-48.20	25.38	-66.43	-13.00	53.43	168	357	Vertical
2	2496.2700	42.92	-47.28	27.76	-71.86	-13.00	58.86	188	44	Vertical
3	3328.3600	42.86	-46.64	29.52	-69.52	-13.00	56.52	193	85	Vertical
4	4160.4500	41.48	-45.94	31.04	-68.68	-13.00	55.68	162	202	Vertical
5	4992.5400	40.73	-45.79	32.86	-67.46	-13.00	54.46	178	0	Vertical
6	5824.6300	40.25	-44.74	33.80	-65.95	-13.00	52.95	213	202	Vertical



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Test Band = LTE Band5_ 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	1679.1800	48.36	-48.18	25.38	-69.70	-13.00	56.70	165	351	Horizontal
2	2518.7700	48.00	-47.21	27.83	-66.63	-13.00	53.63	182	184	Horizontal
3	3358.3600	42.76	-46.60	29.48	-69.62	-13.00	56.62	191	360	Horizontal
4	4197.9500	40.81	-45.96	31.10	-69.31	-13.00	56.31	203	13	Horizontal
5	5037.5400	40.78	-45.65	32.90	-67.23	-13.00	54.23	175	360	Horizontal
6	5887.1300	40.48	-44.93	33.92	-65.79	-13.00	52.79	163	355	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	50.11	-48.18	25.38	-67.95	-13.00	54.95	172	357	Vertical
2	2518.7700	44.38	-47.21	27.83	-70.25	-13.00	57.25	162	310	Vertical
3	3358.3600	42.54	-46.60	29.48	-69.84	-13.00	56.84	185	0	Vertical
4	4197.9500	41.30	-45.96	31.10	-68.82	-13.00	55.82	191	214	Vertical
5	5037.5400	40.28	-45.65	32.90	-67.73	-13.00	54.73	236	257	Vertical
6	5887.1300	41.82	-44.93	33.92	-64.45	-13.00	51.45	181	185	Vertical



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Test Band = LTE 5A_7A_ 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	1672.6667	34.16	-24.77	25.38	-60.49	-25.00	35.49	162	232	Horizontal
2	2473.7700	29.01	-23.55	27.68	-62.11	-25.00	37.11	214	202	Horizontal
3	3298.3600	43.20	-46.45	29.56	-68.95	-25.00	43.95	188	30	Horizontal
4	5002.1800	40.70	-45.63	32.88	-67.31	-25.00	42.31	204	44	Horizontal
5	7503.2700	39.47	-43.13	36.44	-62.48	-25.00	37.48	158	257	Horizontal
6	10004.3600	34.18	-39.23	38.50	-61.82	-25.00	36.82	206	212	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	1674.6667	32.93	-24.76	25.38	-61.71	-25.00	36.71	183	104	Vertical
2	2451.3333	32.04	-23.55	27.61	-59.17	-25.00	34.17	211	46	Vertical
3	3298.3600	42.65	-46.45	29.56	-69.50	-25.00	44.50	167	151	Vertical
4	5002.1800	40.19	-45.63	32.88	-67.82	-25.00	42.82	258	316	Vertical
5	7503.2700	39.07	-43.13	36.44	-62.88	-25.00	37.88	169	358	Vertical
6	10004.3600	34.78	-39.23	38.50	-61.22	-25.00	36.22	205	331	Vertical



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Test Band = LTE 5A_7A_ 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	1672.6667	34.33	-24.77	25.38	-60.32	-25.00	35.32	164	222	Horizontal
2	2496.2700	28.80	-23.54	27.76	-62.24	-25.00	37.24	210	65	Horizontal
3	3328.3600	42.83	-46.41	29.52	-69.32	-25.00	44.32	169	29	Horizontal
4	5052.1800	40.64	-45.50	32.91	-67.21	-25.00	42.21	255	178	Horizontal
5	7578.2700	38.15	-42.97	36.40	-63.68	-25.00	38.68	166	360	Horizontal
6	10104.3600	34.27	-39.14	38.66	-61.47	-25.00	36.47	208	329	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	1676.6667	33.30	-24.76	25.38	-61.34	-25.00	36.34	175	86	Vertical
2	2496.2700	28.51	-23.54	27.76	-62.53	-25.00	37.53	235	1	Vertical
3	3328.3600	42.82	-46.41	29.52	-69.33	-25.00	44.33	148	227	Vertical
4	5052.1800	40.38	-45.50	32.91	-67.47	-25.00	42.47	203	346	Vertical
5	7578.2700	39.34	-42.97	36.40	-62.49	-25.00	37.49	221	4	Vertical
6	10104.3600	33.61	-39.14	38.66	-62.13	-25.00	37.13	194	152	Vertical



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Test Band = LTE 5A_7A_ 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	1671.3333	34.46	-24.77	25.38	-60.19	-25.00	35.19	183	224	Horizontal
2	2518.7700	28.78	-23.40	27.83	-62.05	-25.00	37.05	164	38	Horizontal
3	3358.3600	42.94	-46.35	29.48	-69.19	-25.00	44.19	215	57	Horizontal
4	5102.1800	40.99	-45.37	32.94	-66.70	-25.00	41.70	199	161	Horizontal
5	7653.2700	38.83	-43.03	36.49	-62.97	-25.00	37.97	221	283	Horizontal
6	10204.3600	32.93	-39.48	38.81	-63.00	-25.00	38.00	153	357	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	1674	32.97	-24.76	25.38	-61.68	-25.00	36.68	161	87	Vertical
2	2518.7700	28.74	-23.40	27.83	-62.09	-25.00	37.09	209	331	Vertical
3	3358.3600	42.26	-46.35	29.48	-69.87	-25.00	44.87	184	60	Vertical
4	5102.1800	40.73	-45.37	32.94	-66.96	-25.00	41.96	225	329	Vertical
5	7653.2700	38.96	-43.03	36.49	-62.84	-25.00	37.84	196	240	Vertical
6	10204.3600	33.82	-39.48	38.81	-62.11	-25.00	37.11	228	120	Vertical



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Test Band = LTE 5A_66A_ 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	28.68	-24.82	25.37	-66.03	-13.00	53.03	163	182	Horizontal
2	2473.7700	28.93	-23.55	27.68	-62.19	-13.00	49.19	214	142	Horizontal
3	3298.3600	42.44	-46.45	29.56	-69.71	-13.00	56.71	268	14	Horizontal
4	3404.1800	41.84	-46.28	29.43	-70.27	-13.00	57.27	229	92	Horizontal
5	5106.2700	40.19	-45.36	32.94	-67.50	-13.00	54.50	205	48	Horizontal
6	6808.3600	40.04	-44.16	35.85	-63.53	-13.00	50.53	154	136	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	28.80	-24.82	25.37	-65.91	-13.00	52.91	214	304	Vertical
2	2473.7700	29.07	-23.55	27.68	-62.05	-13.00	49.05	188	254	Vertical
3	3298.3600	43.50	-46.45	29.56	-68.65	-13.00	55.65	254	360	Vertical
4	3404.1800	41.74	-46.28	29.43	-70.37	-13.00	57.37	168	284	Vertical
5	5106.2700	39.79	-45.36	32.94	-67.90	-13.00	54.90	172	352	Vertical
6	6808.3600	39.91	-44.16	35.85	-63.66	-13.00	50.66	135	360	Vertical



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Test Band = LTE 5A_66A_ 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	1664.1800	28.46	-24.78	25.38	-66.21	-13.00	53.21	170	171	Horizontal
2	2496.2700	28.83	-23.54	27.76	-62.21	-13.00	49.21	194	94	Horizontal
3	3328.3600	42.30	-46.41	29.52	-69.85	-13.00	56.85	255	151	Horizontal
4	3454.1800	42.26	-46.27	29.48	-69.79	-13.00	56.79	246	359	Horizontal
5	5181.2700	40.98	-45.30	32.98	-66.60	-13.00	53.60	178	344	Horizontal
6	6908.3600	38.97	-44.05	35.97	-64.37	-13.00	51.37	221	91	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	28.71	-24.78	25.38	-65.96	-13.00	52.96	168	300	Vertical
2	2496.2700	29.07	-23.54	27.76	-61.97	-13.00	48.97	254	172	Vertical
3	3328.3600	42.92	-46.41	29.52	-69.23	-13.00	56.23	179	360	Vertical
4	3454.1800	43.27	-46.27	29.48	-68.78	-13.00	55.78	213	256	Vertical
5	5181.2700	39.86	-45.30	32.98	-67.72	-13.00	54.72	205	28	Vertical
6	6908.3600	39.90	-44.05	35.97	-63.44	-13.00	50.44	187	148	Vertical



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Test Band = LTE 5A_66A_ 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	1679.1800	29.67	-24.75	25.38	-64.96	-13.00	51.96	194	65	Horizontal
2	2518.7700	28.82	-23.40	27.83	-62.01	-13.00	49.01	208	94	Horizontal
3	3358.3600	41.84	-46.35	29.48	-70.29	-13.00	57.29	175	44	Horizontal
4	3504.1800	42.31	-46.25	29.52	-69.68	-13.00	56.68	216	44	Horizontal
5	5256.2700	40.33	-45.17	32.94	-67.17	-13.00	54.17	153	256	Horizontal
6	7008.3600	40.50	-43.61	36.10	-62.27	-13.00	49.27	159	353	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	29.79	-24.75	25.38	-64.84	-13.00	51.84	179	319	Vertical
2	2518.7700	28.84	-23.40	27.83	-61.99	-13.00	48.99	161	84	Vertical
3	3358.3600	42.39	-46.35	29.48	-69.74	-13.00	56.74	224	62	Vertical
4	3504.1800	42.59	-46.25	29.52	-69.40	-13.00	56.40	186	93	Vertical
5	5256.2700	40.21	-45.17	32.94	-67.29	-13.00	54.29	203	257	Vertical
6	7008.3600	39.00	-43.61	36.10	-63.77	-13.00	50.77	285	243	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.40	0.000478	±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	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.10	-0.000120	±2.5	PASS

---End of Attachment---



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