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Appendix B.6

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant41:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.73	15.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.68	15.79	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.69	15.80	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.86	14.97	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.63	15.74	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.75	15.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.87	15.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.88	14.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.52	15.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.77	15.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.65	15.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.95	15.06	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.03	15.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.16	15.27	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.90	15.01	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.81	13.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.89	15.00	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.06	15.17	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.21	15.32	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.85	13.96	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.08	15.19	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.12	15.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.10	15.21	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.93	14.04	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.94	15.05	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.00	14.11	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.06	14.17	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	20.69	12.80	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.94	14.05	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.33	14.44	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.04	14.15	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.85	12.96	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.70	13.81	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.02	14.13	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.96	14.07	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.82	12.93	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.80	10.91	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	18.81	10.92	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	18.97	11.08	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	18.88	10.99	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	18.98	11.09	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.11	11.22	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.06	11.17	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	18.79	10.90	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.31	10.42	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.40	11.51	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.09	11.20	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.98	11.09	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.82	15.93	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.90	16.01	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.79	15.90	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.94	15.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.56	15.67	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.90	16.01	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.92	16.03	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.92	15.03	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.68	15.79	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.95	16.06	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.94	16.05	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	22.92	15.03	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.07	15.18	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.15	15.26	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.14	15.25	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.98	14.09	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.21	15.32	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.29	15.40	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.26	15.37	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.94	14.05	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.45	15.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.14	15.25	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.39	15.50	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.99	14.10	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.23	14.34	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.01	14.12	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.17	14.28	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.00	13.11	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.12	14.23	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.31	14.42	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.22	14.33	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.00	13.11	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.35	14.46	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.15	14.26	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.05	14.16	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.07	13.18	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.12	11.23	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.09	11.20	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.11	11.22	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	18.85	10.96	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.08	11.19	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18.99	11.10	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	18.97	11.08	38.45	PASS



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Band5	3MHz	256QAM	20525	15RB#0	18.94	11.05	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	19.25	11.36	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.20	11.31	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.07	11.18	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.09	11.20	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.85	15.96	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.73	15.84	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.79	15.90	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.99	15.10	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.65	15.76	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.70	15.81	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.90	16.01	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.99	15.10	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.95	16.06	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.76	15.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.85	15.96	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.96	15.07	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.17	15.28	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.05	15.16	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.04	15.15	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.92	14.03	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.32	15.43	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.19	15.30	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.16	15.27	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.02	14.13	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.07	15.18	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.13	15.24	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.07	15.18	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.00	14.11	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.16	14.27	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.99	14.10	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.13	14.24	38.45	PASS



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Band5	5MHz	64QAM	20425	25RB#0	20.91	13.02	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.08	14.19	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.08	14.19	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.25	14.36	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.97	13.08	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.09	14.20	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.02	14.13	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.04	14.15	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.77	12.88	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.10	11.21	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.92	11.03	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.12	11.23	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	18.96	11.07	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.07	11.18	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.06	11.17	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.16	11.27	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	18.99	11.10	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.00	11.11	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.09	11.20	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.15	11.26	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.01	11.12	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.83	15.94	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.76	15.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.93	16.04	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.91	15.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.87	15.98	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.78	15.89	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.95	16.06	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.01	15.12	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.69	15.80	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.84	15.95	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.88	15.99	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	23.00	15.11	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.04	15.15	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.96	15.07	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.94	15.05	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.00	14.11	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.02	15.13	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.06	15.17	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.16	15.27	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.06	14.17	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.07	15.18	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.26	15.37	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.17	15.28	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.01	14.12	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.02	14.13	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.98	14.09	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.11	14.22	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.96	13.07	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.10	14.21	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.22	14.33	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.07	14.18	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.01	13.12	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.16	14.27	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.99	14.10	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.06	14.17	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.05	13.16	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	18.99	11.10	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.01	11.12	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.98	11.09	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	19.02	11.13	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.94	11.05	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.06	11.17	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	19.08	11.19	38.45	PASS



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Band5	10MHz	256QAM	20525	50RB#0	19.01	11.12	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.11	11.22	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.08	11.19	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.03	11.14	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.97	11.08	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	4.86	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.16	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.66	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.78	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.98	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.36	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.48	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.68	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.64	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.78	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.88	13	PASS



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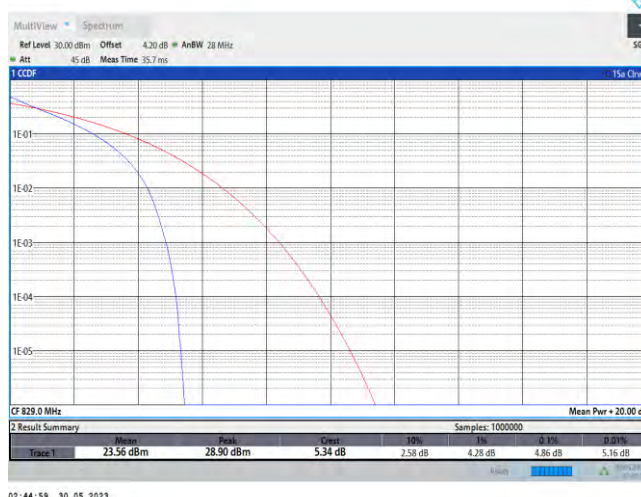
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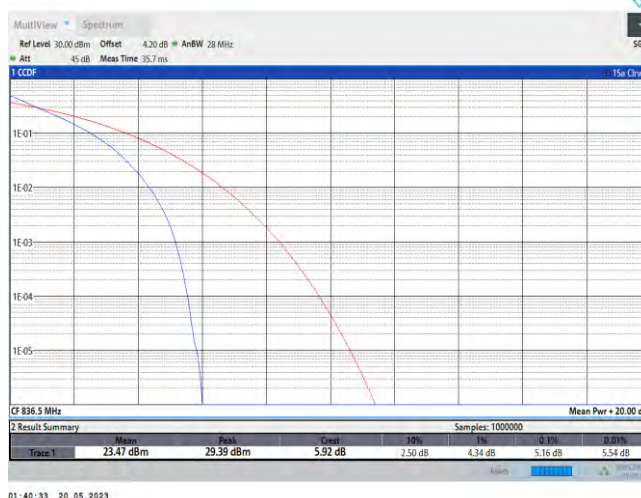
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Test Graphs

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



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



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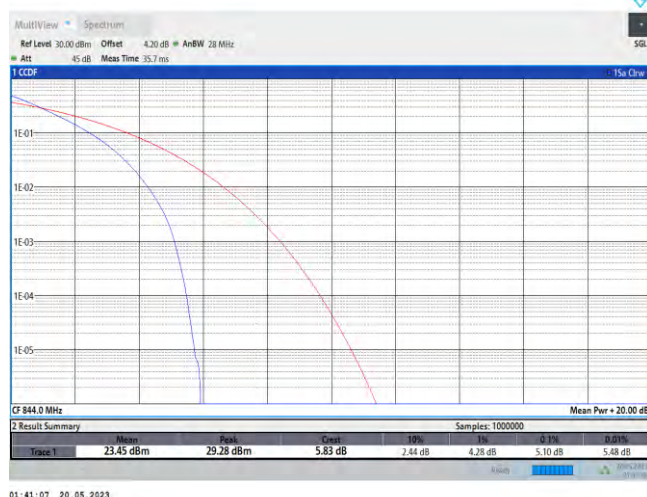
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Band5-10MHz-QPSK-20600-50RB#0



01:41:07 20.05.2023

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



02:45:15 30.05.2023



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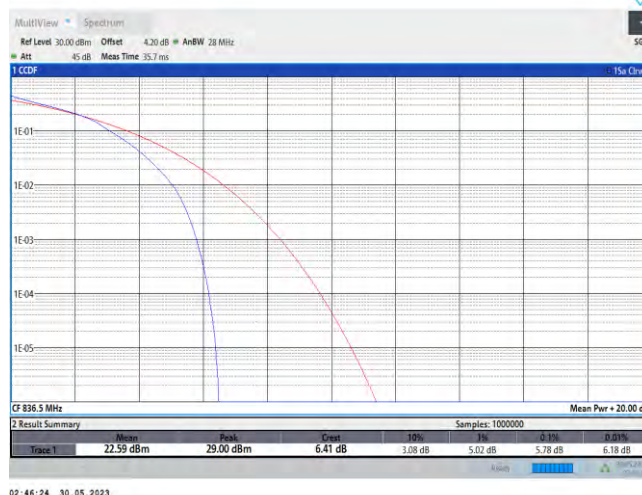
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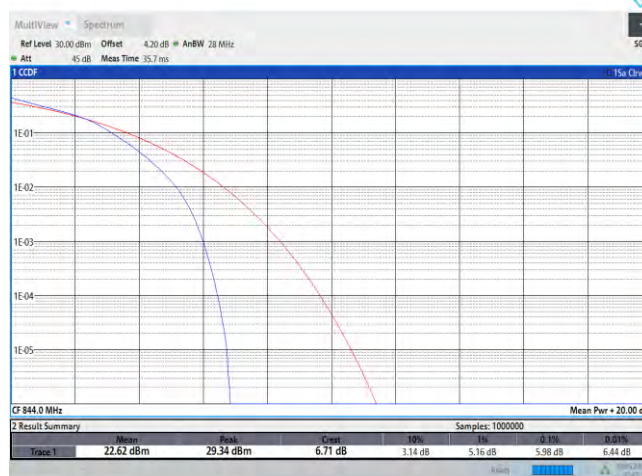
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Band5-10MHz-16QAM-20525-50RB#0



02:46:24 30.05.2023

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



02:47:34 30.05.2023



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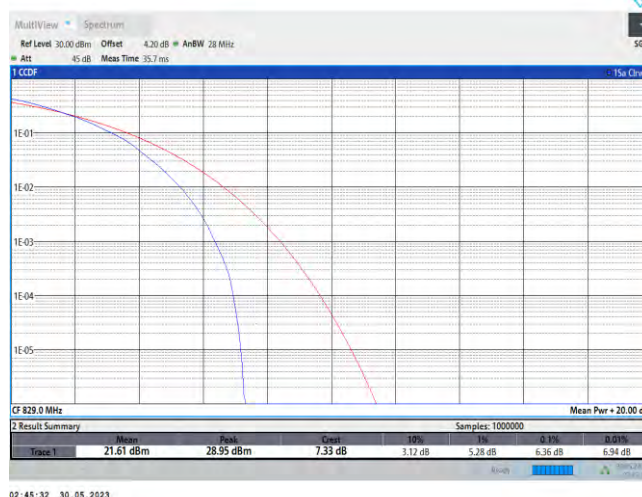
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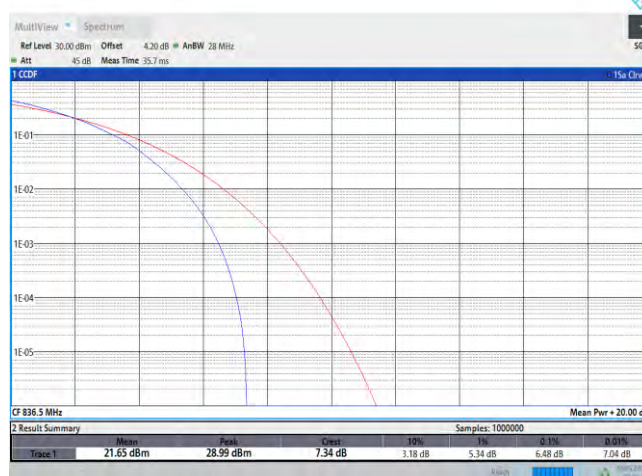
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Band5-10MHz-64QAM-20450-50RB#0



02:45:32 30.05.2023

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



02:46:40 30.05.2023



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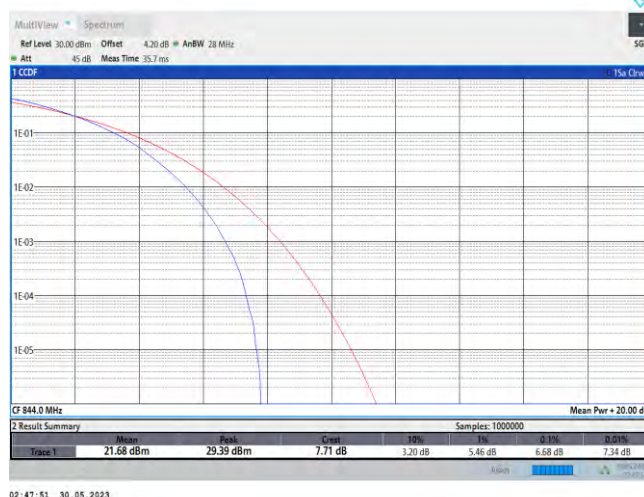
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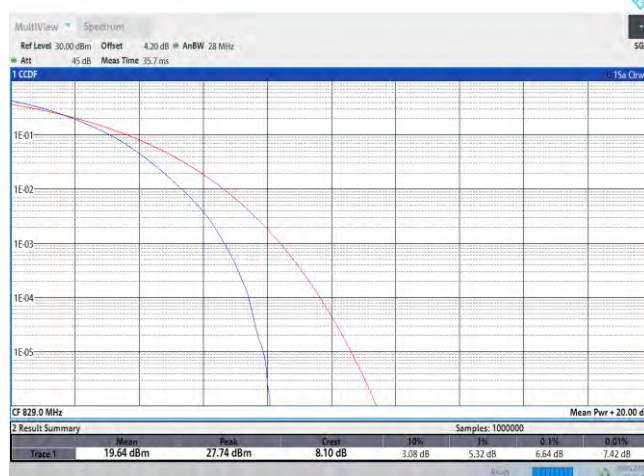
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Band5-10MHz-64QAM-20600-50RB#0



02:47:51 30.05.2023

Band5-10MHz-256QAM-20450-50RB#0



02:45:48 30.05.2023



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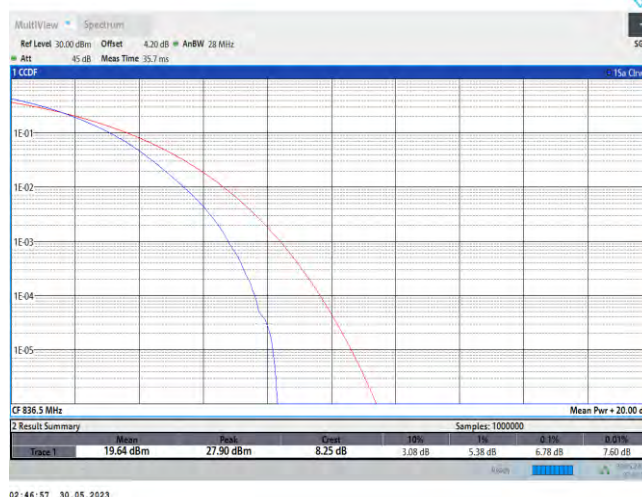
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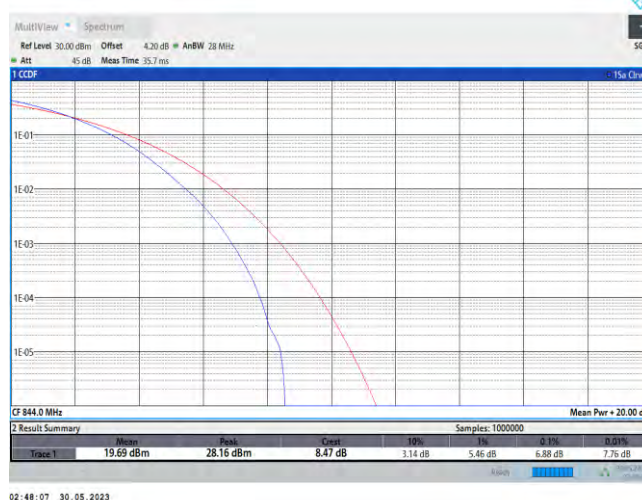
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Band5-10MHz-256QAM-20525-50RB#0



Band5-10MHz-256QAM-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
Band5	10MHz	256QAM	20525	50RB#0	PASS	PASS



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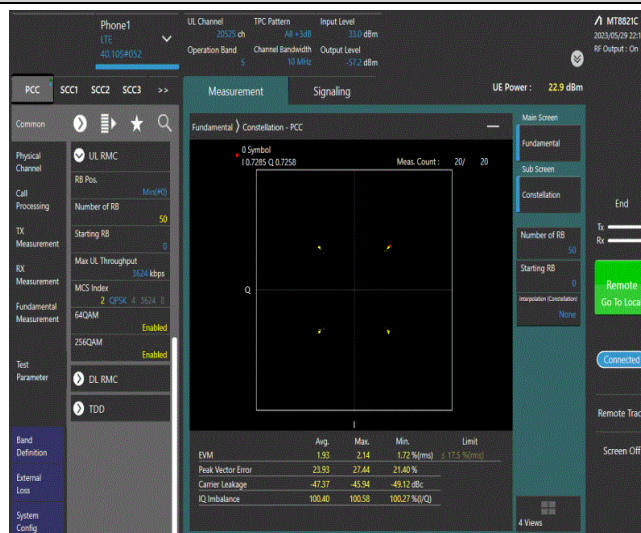
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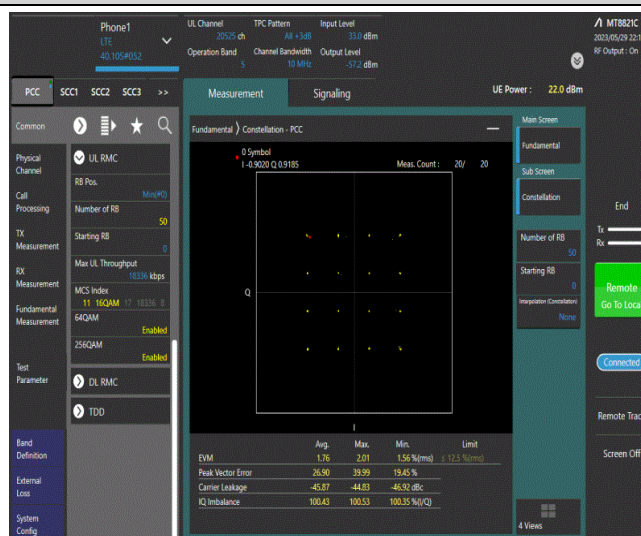
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Test Graphs

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



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



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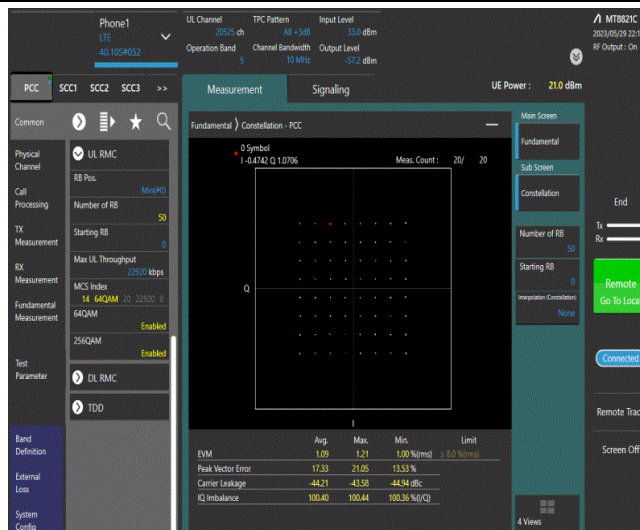
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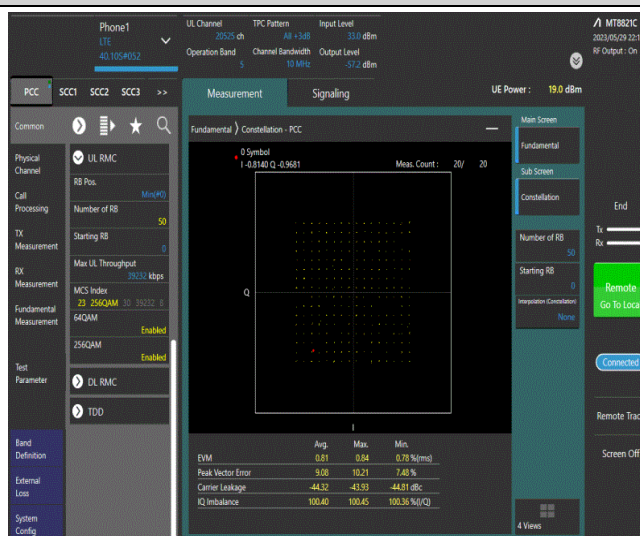
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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-256QAM-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	1.080	1.21	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.087	1.22	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.095	1.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.084	1.22	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.22	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.090	1.24	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.085	1.22	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.080	1.21	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.081	1.22	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.084	1.21	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.087	1.23	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.086	1.23	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.699	2.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.708	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.694	2.95	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.690	2.99	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.702	2.92	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.699	2.96	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.701	2.98	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.688	2.93	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.701	2.94	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.691	2.98	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.694	2.97	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.693	2.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.473	4.87	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.472	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.457	4.82	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.459	4.83	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.485	4.85	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.484	4.89	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.477	4.85	PASS



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Band5	5MHz	64QAM	20525	25RB#0	4.471	4.86	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.484	4.85	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.453	4.84	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.459	4.90	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.488	4.83	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.953	9.60	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.933	9.54	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.917	9.48	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.927	9.50	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.924	9.44	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.913	9.54	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.961	9.54	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.908	9.62	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.943	9.60	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.926	9.52	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.920	9.60	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.929	9.60	PASS



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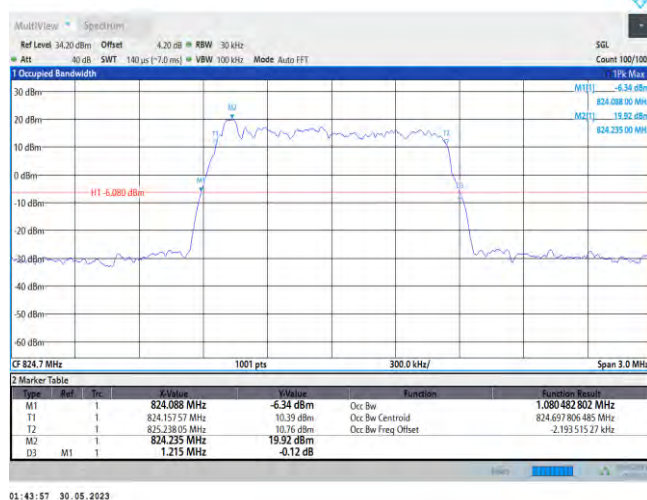
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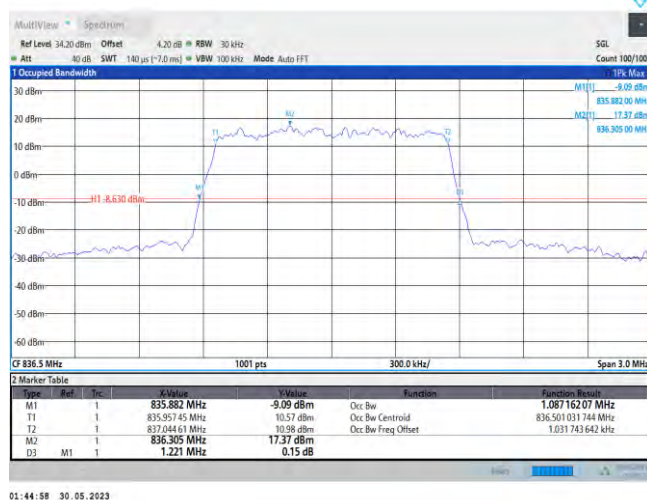
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Test Graphs

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



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



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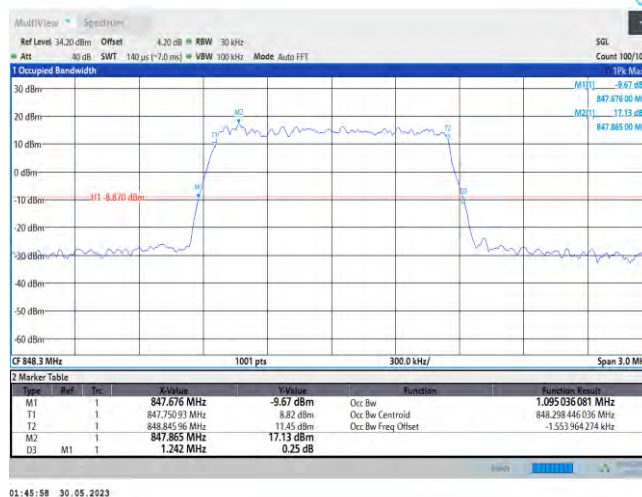
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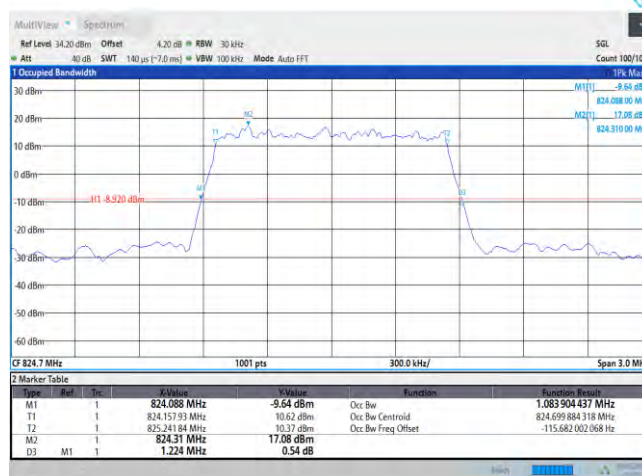
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Band5-1.4MHz-16QAM-20407-6RB#0



01:44:11 30.05.2023



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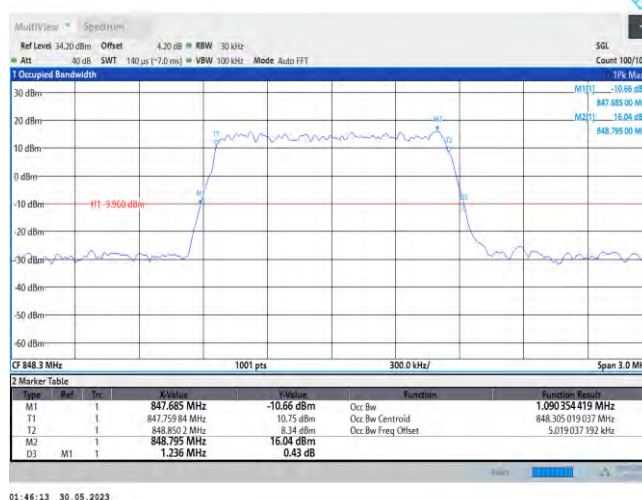
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Band5-1.4MHz-256QAM-20407-6RB#0



01:44:40 30.05.2023



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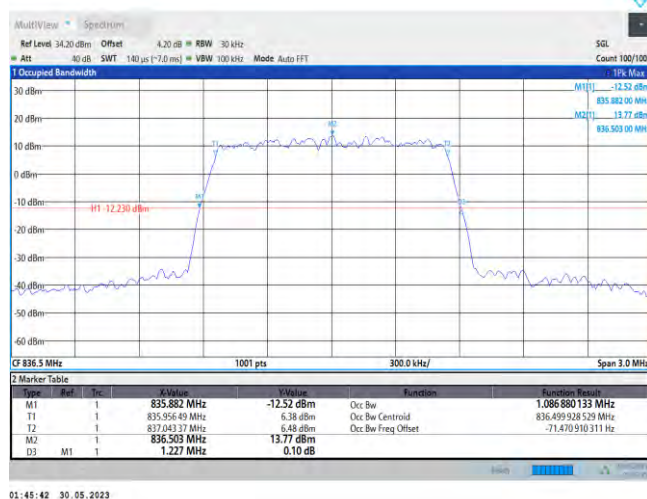
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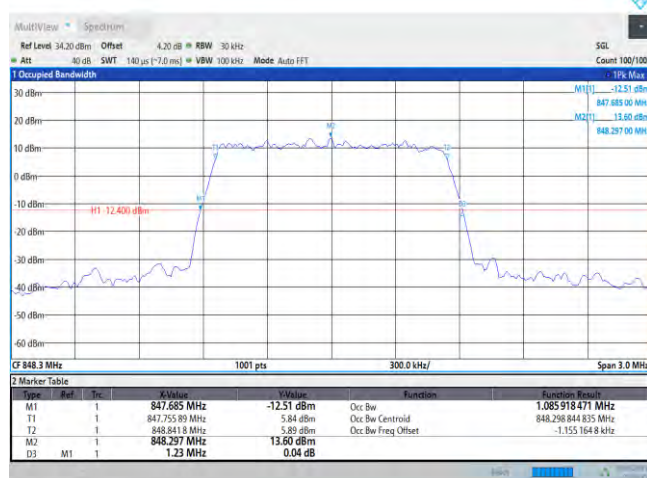
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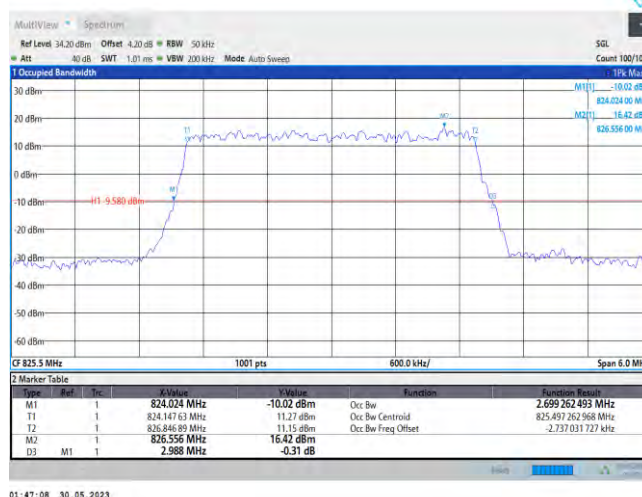
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Band5-3MHz-QPSK-20525-15RB#0



01:48:05 30.05.2023



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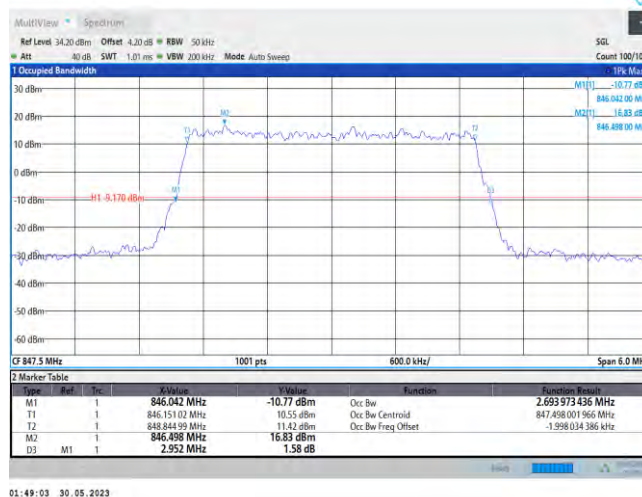
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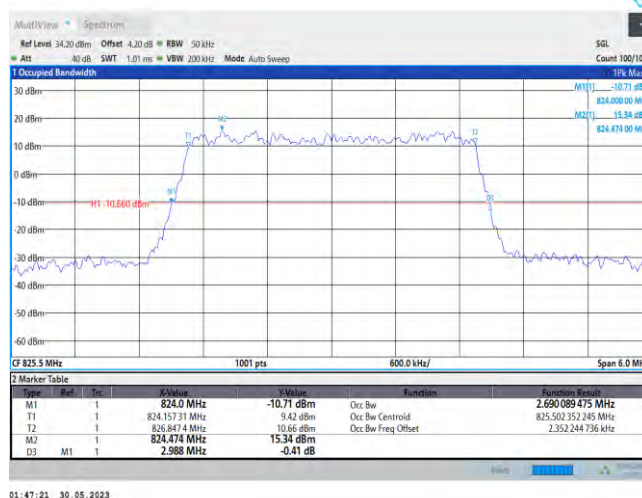
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Band5-3MHz-16QAM-20415-15RB#0



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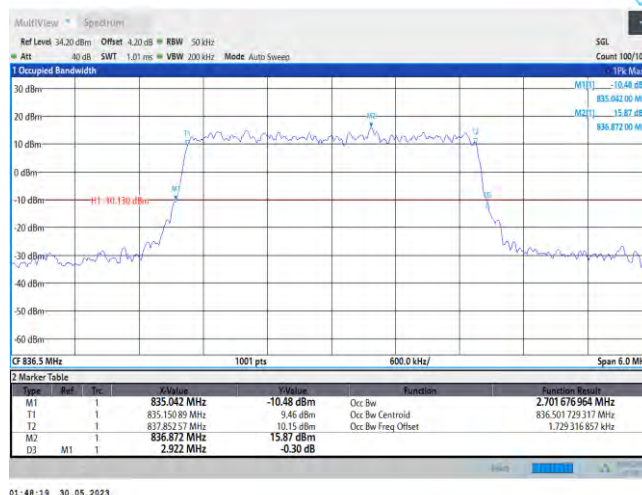
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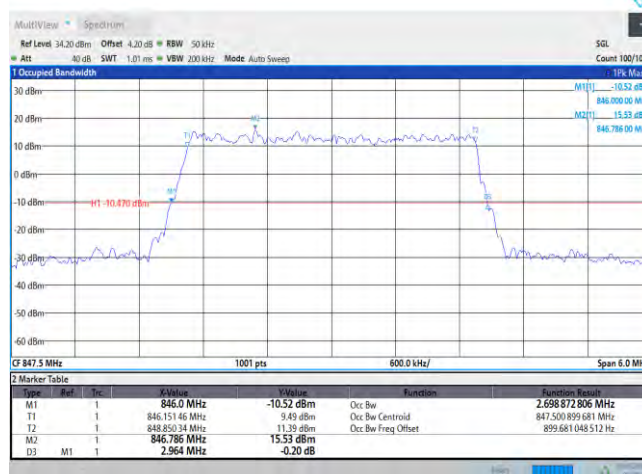
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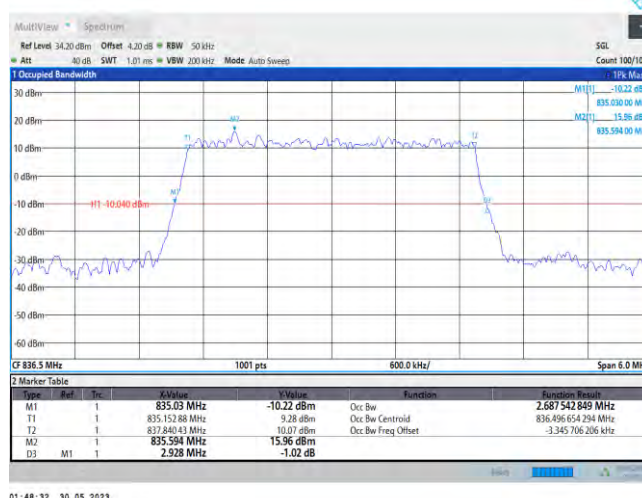
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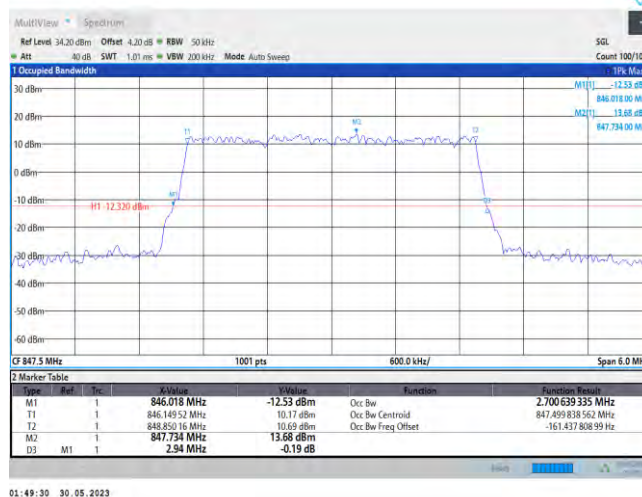
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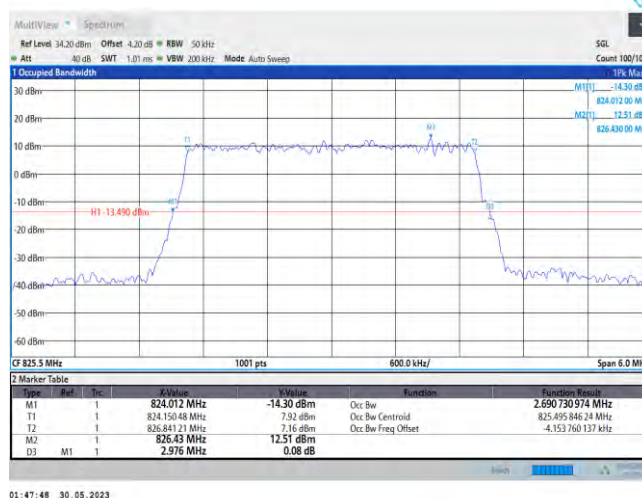
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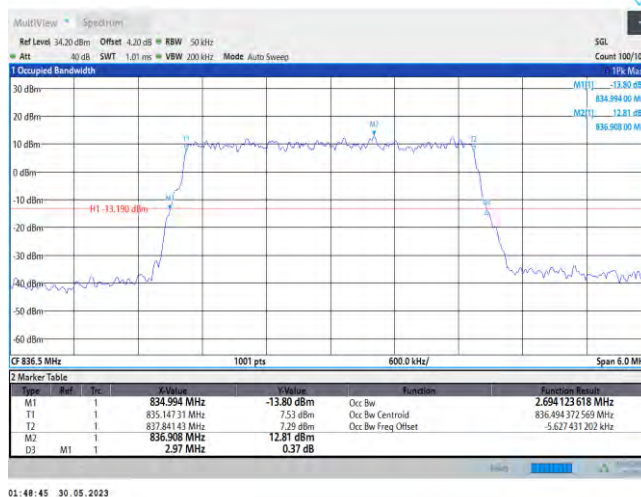
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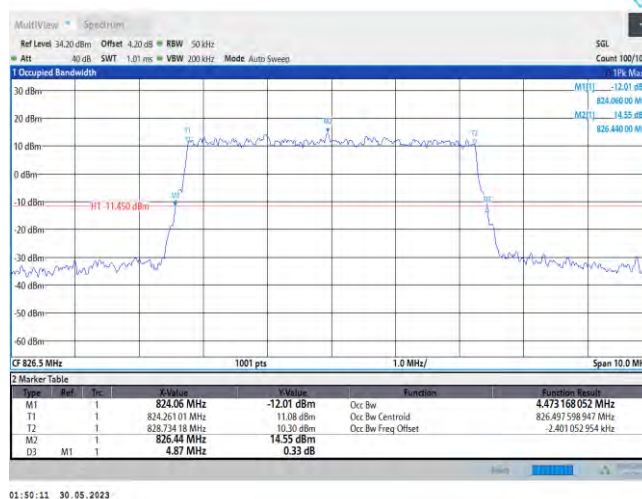
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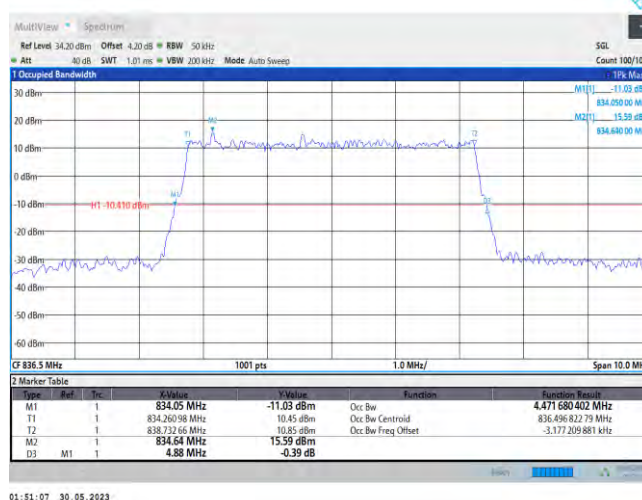
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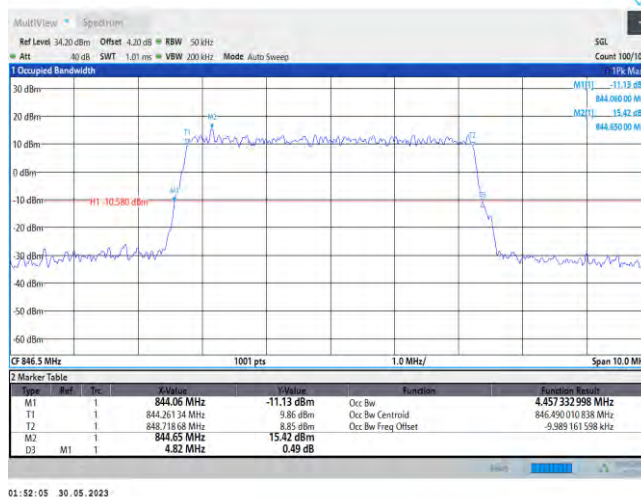
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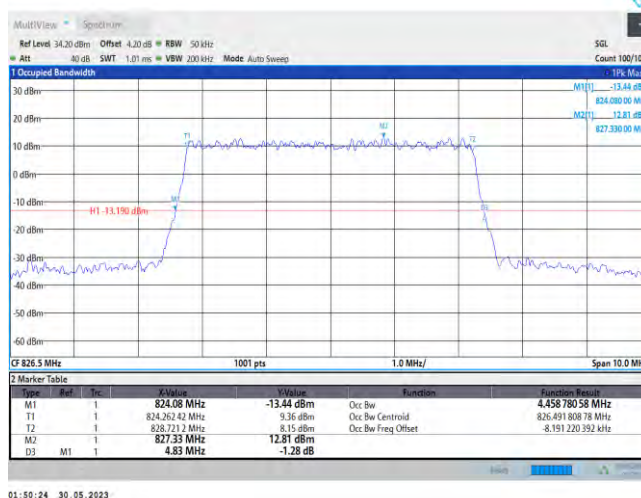
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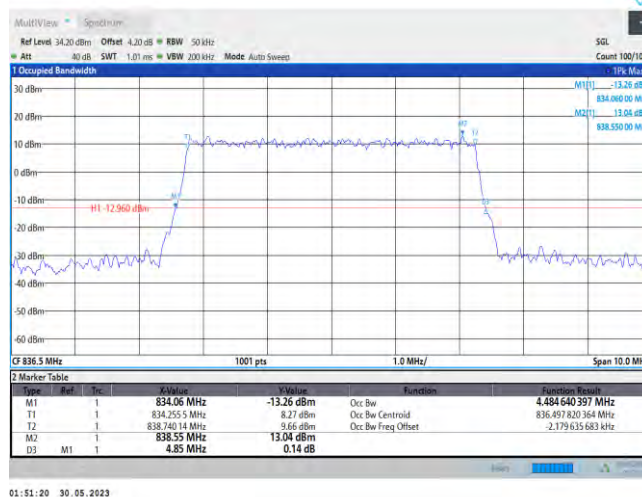
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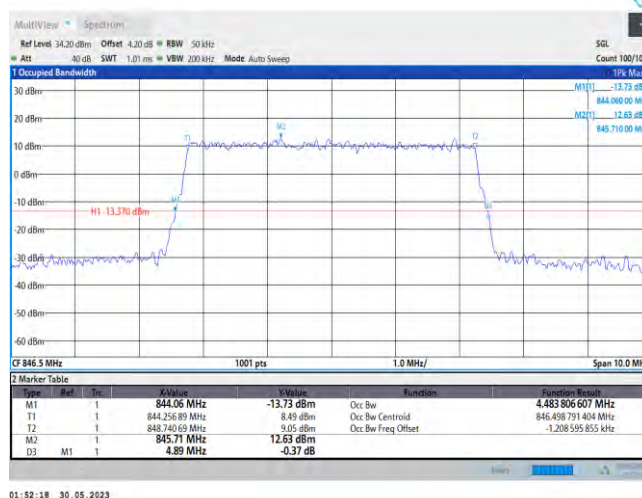
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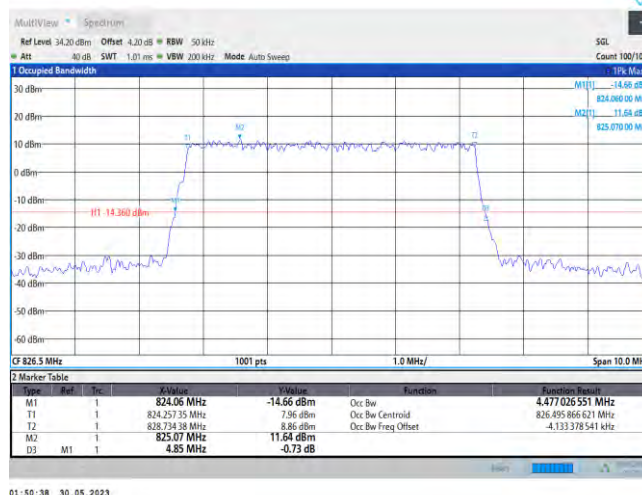
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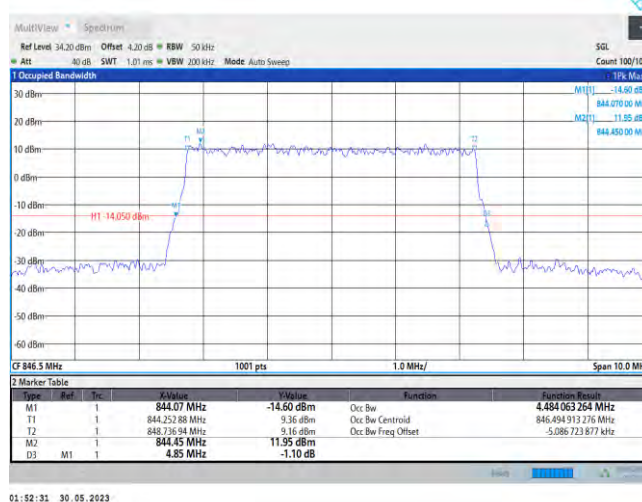
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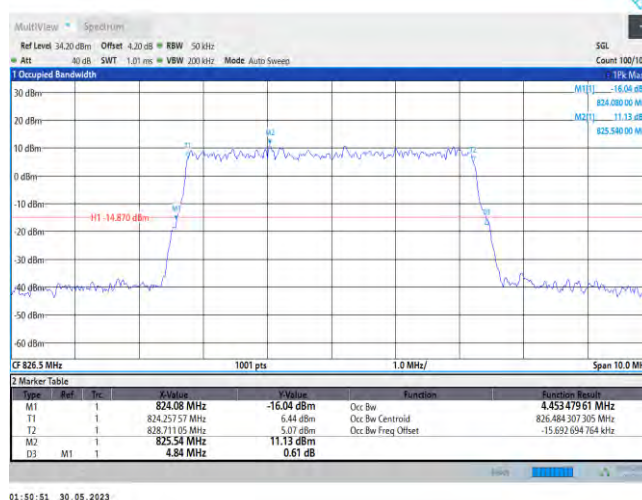
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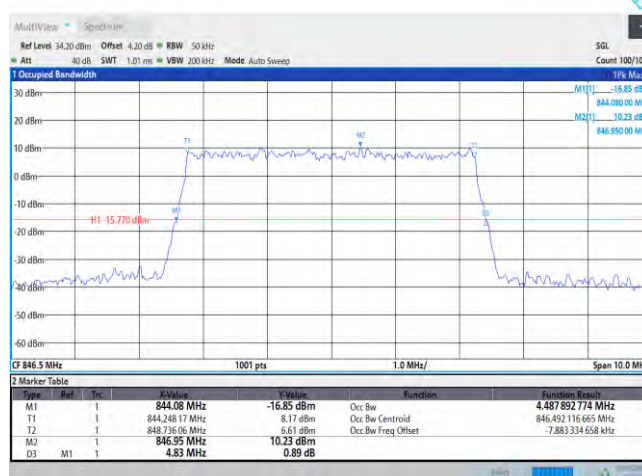
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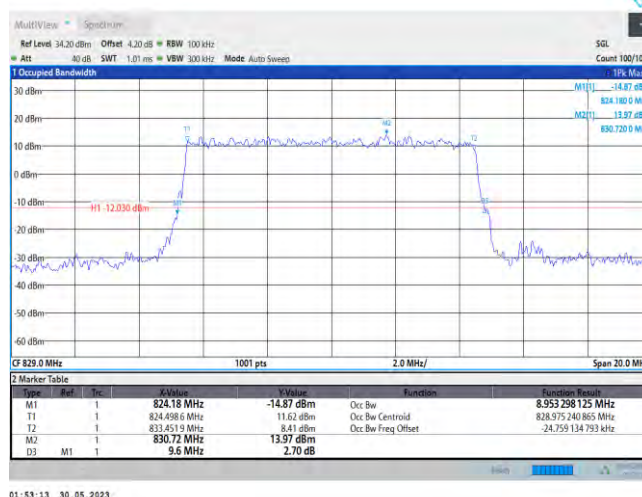
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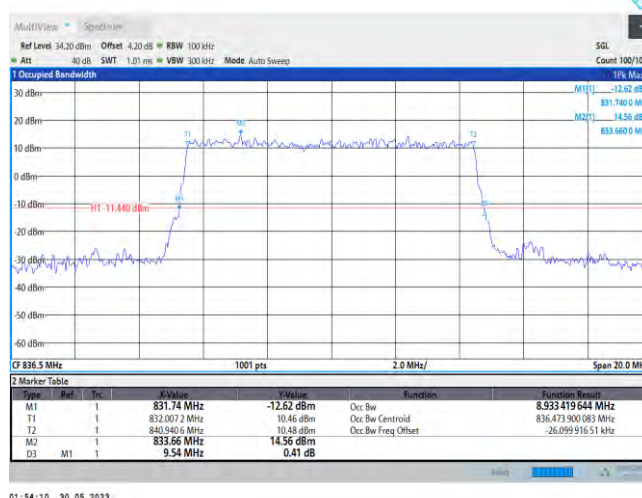
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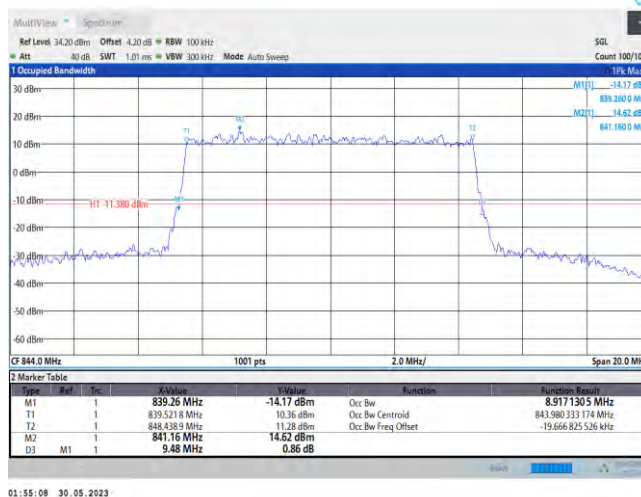
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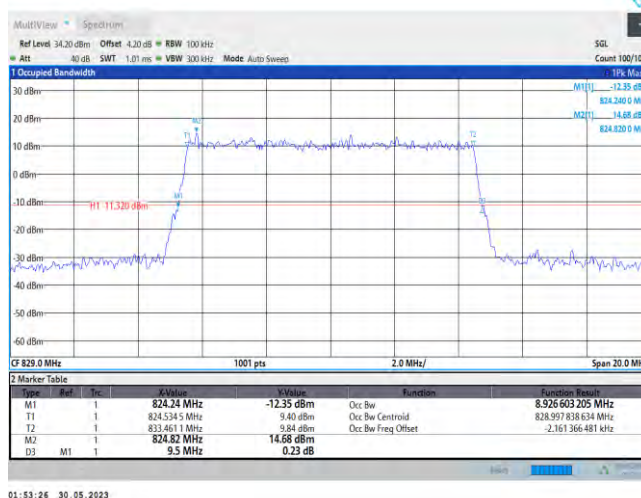
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Band5-10MHz-QPSK-20600-50RB#0



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



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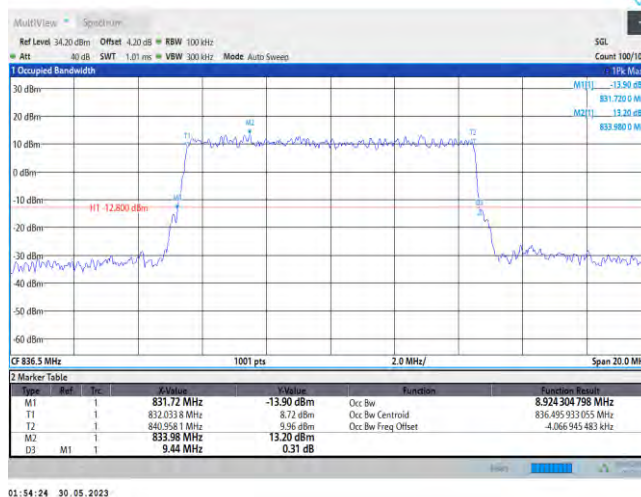
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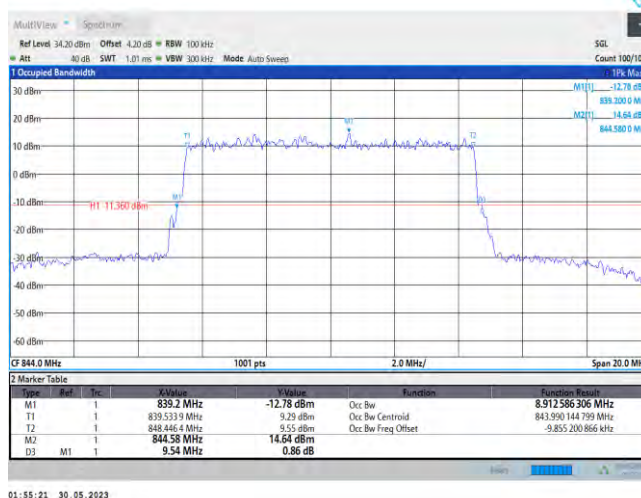
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Band5-10MHz-16QAM-20525-50RB#0



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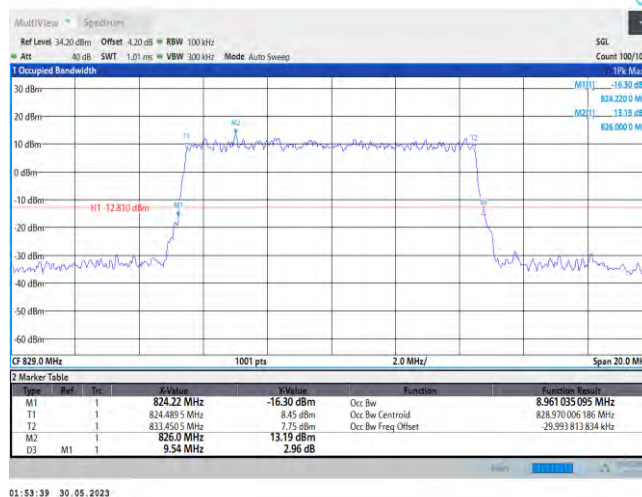
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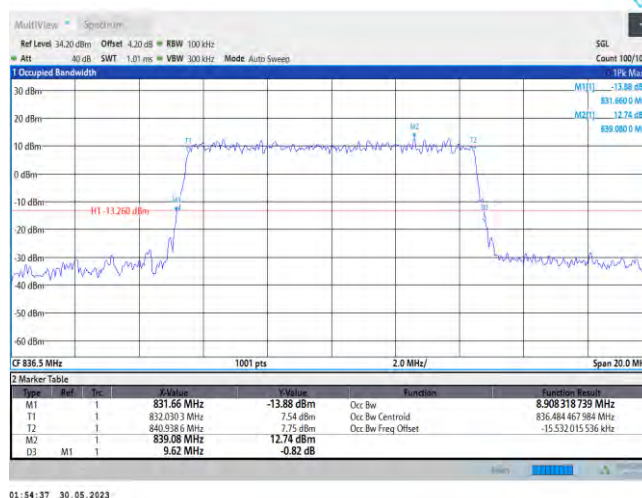
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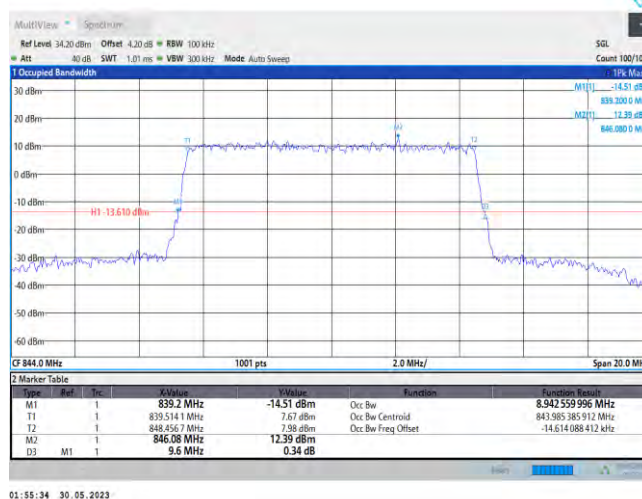
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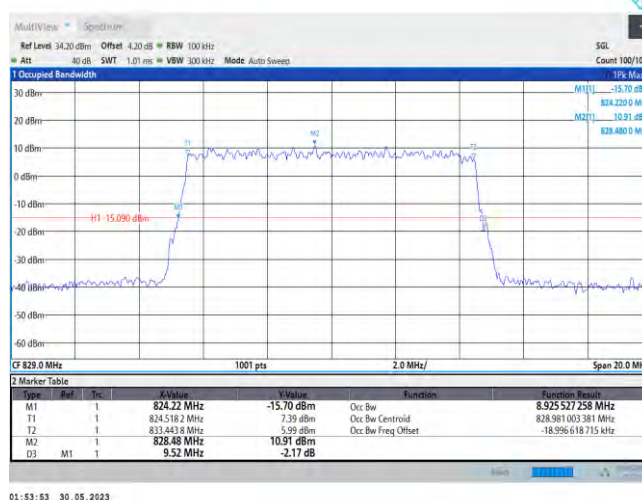
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Band5-10MHz-256QAM-20450-50RB#0



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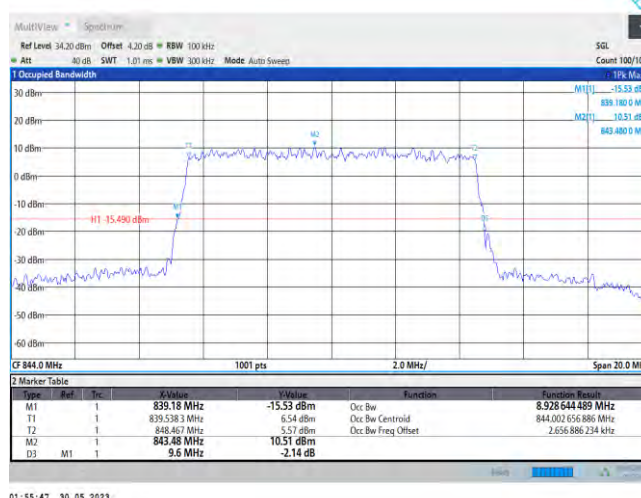
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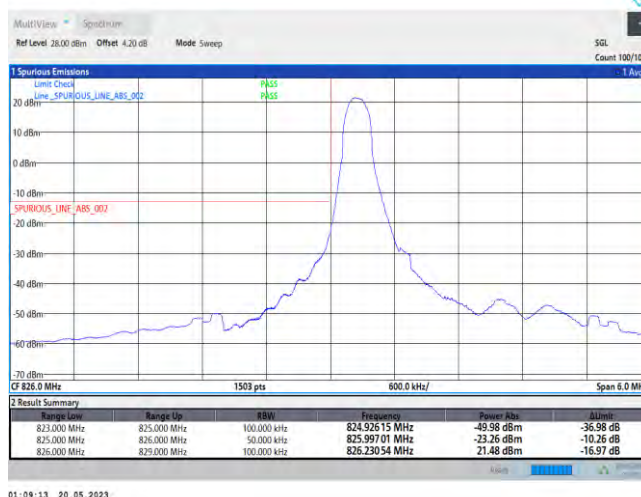
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Band Edge

Test Graphs

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



01:09:13 20.05.2023

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



02:01:49 30.05.2023



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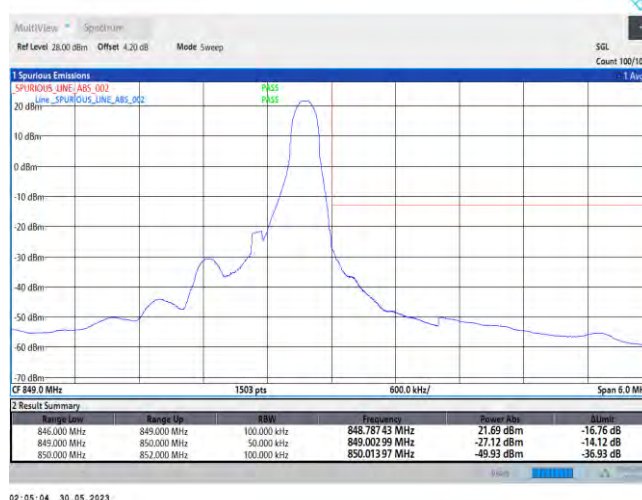
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Band5-1.4MHz-QPSK-20643-1RB#5



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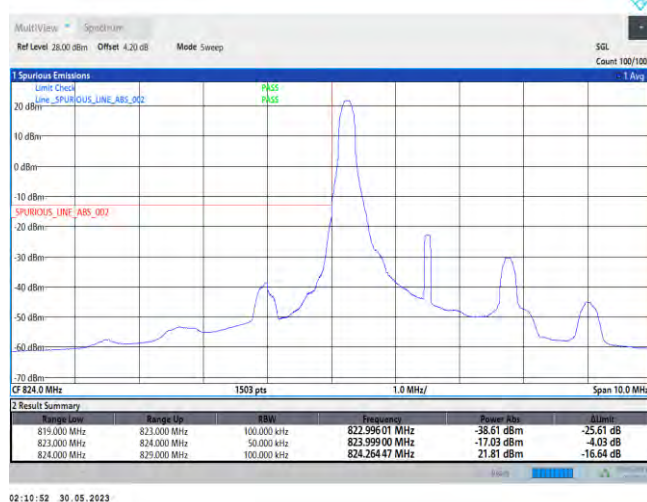
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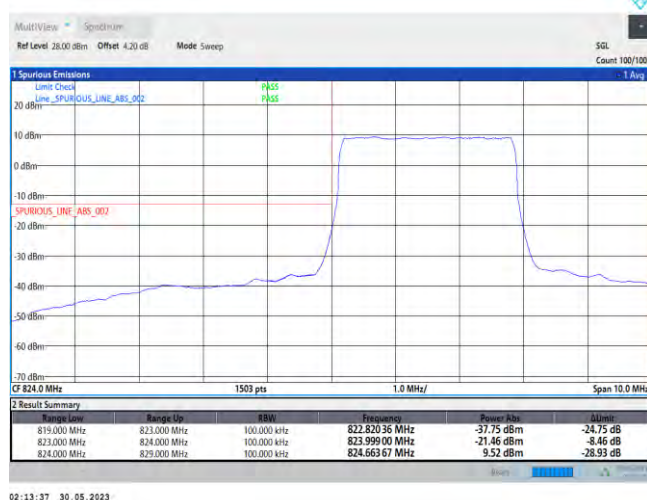
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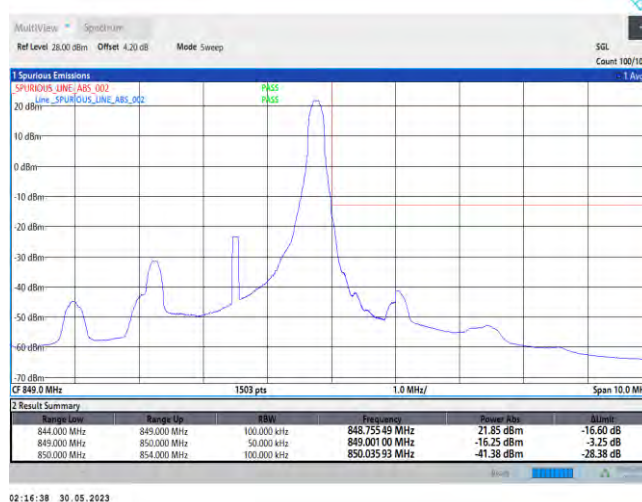
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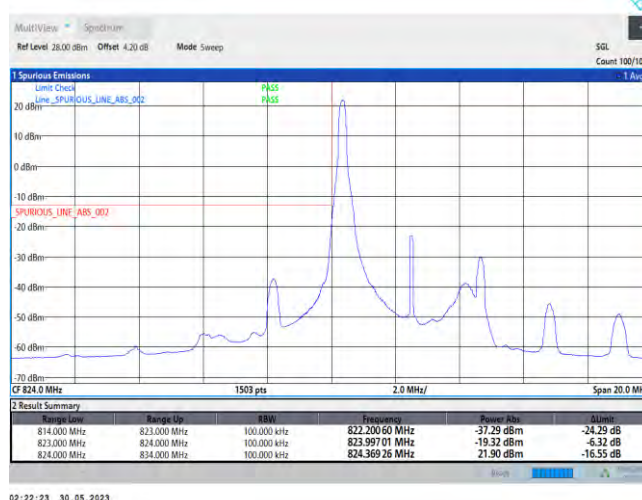
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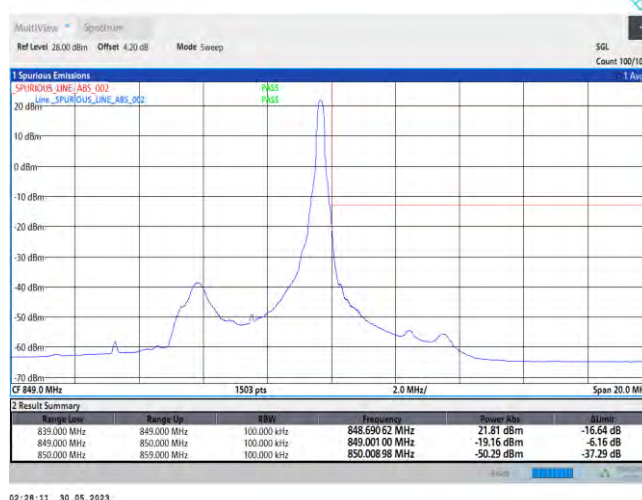
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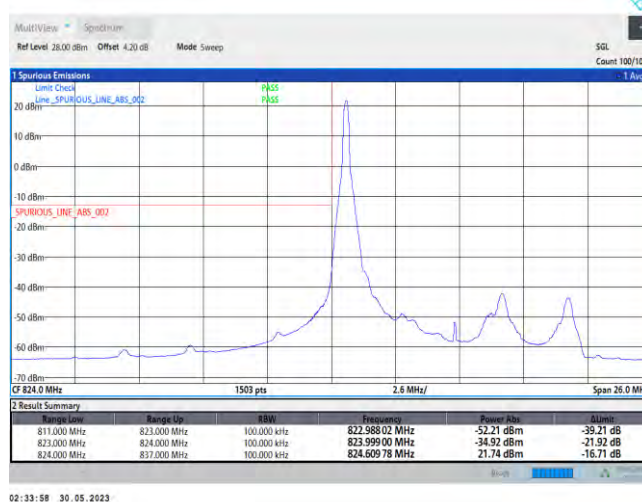
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Band5-10MHz-QPSK-20450-50RB#0



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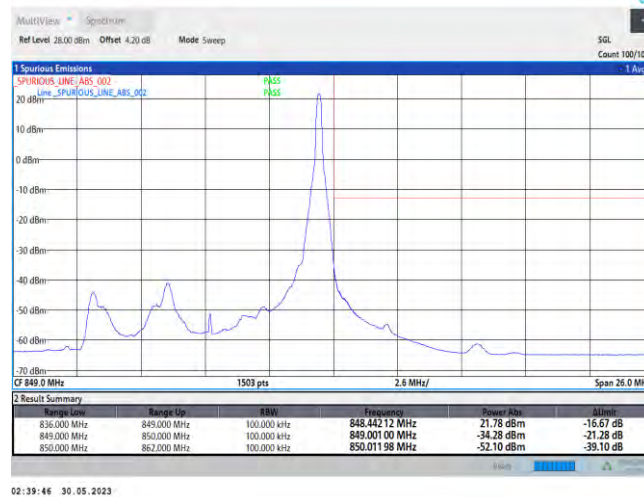
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Band5-10MHz-QPSK-20600-1RB#49



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



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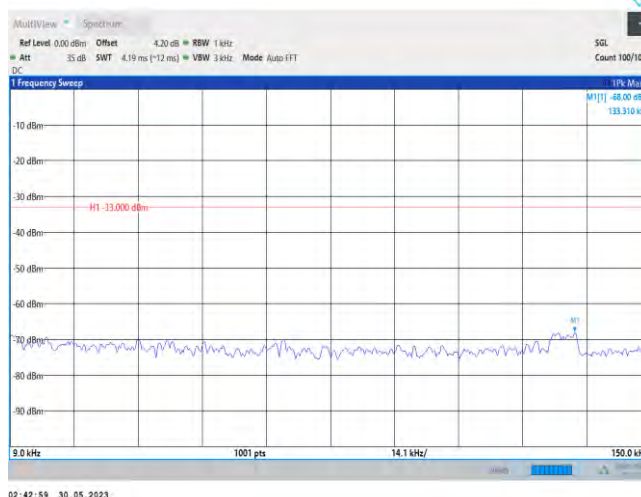
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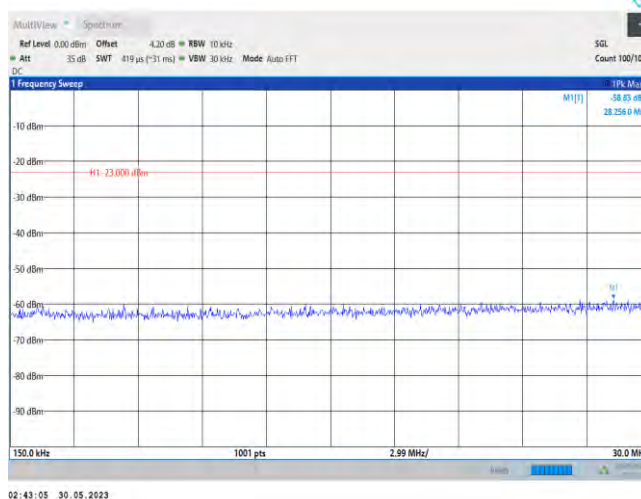
Conducted Spurious Emission

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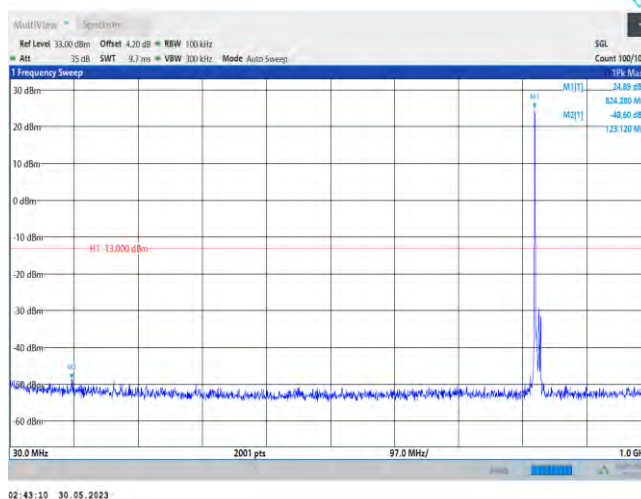
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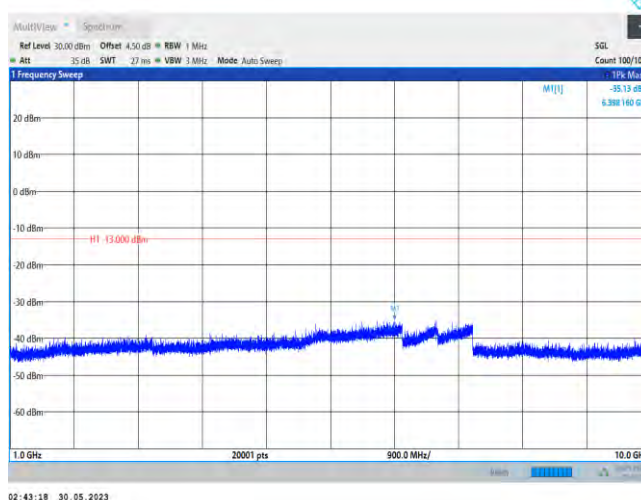
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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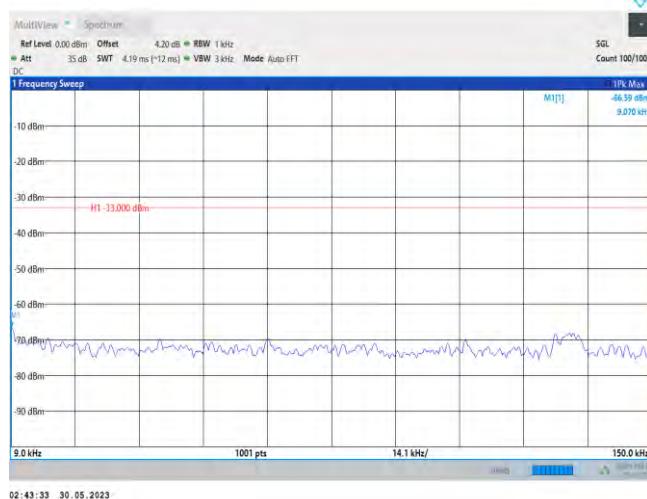
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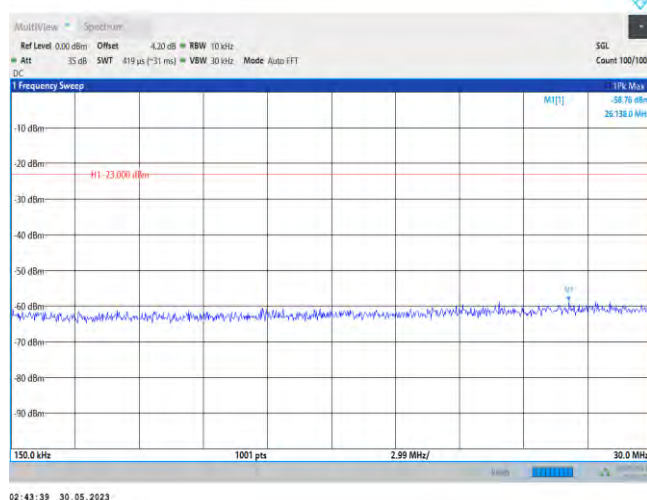
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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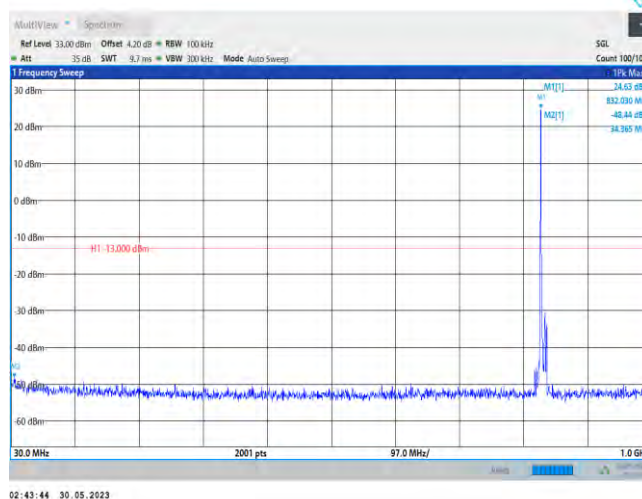
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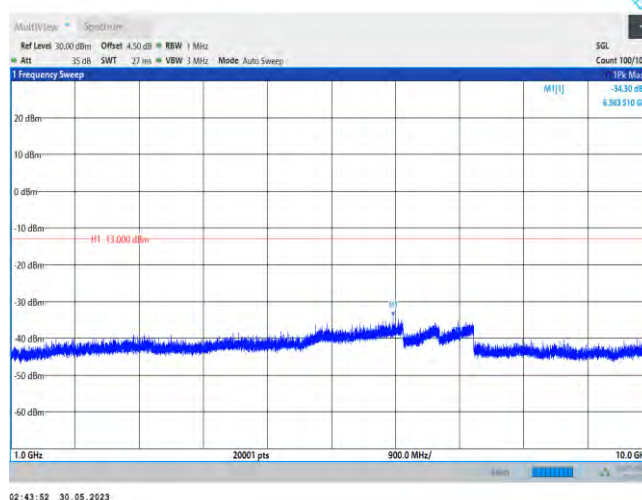
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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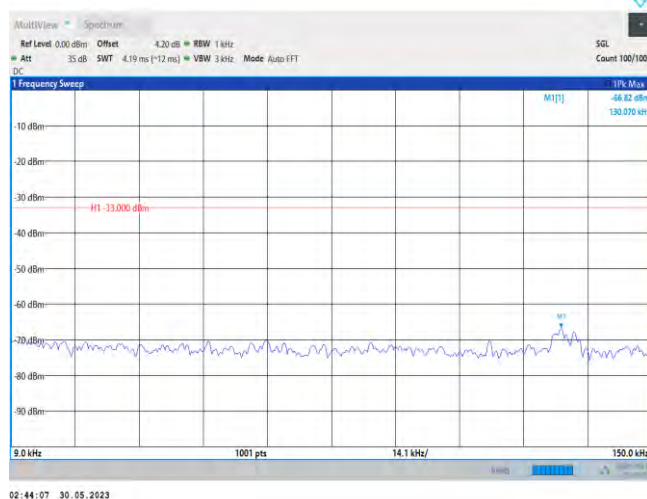
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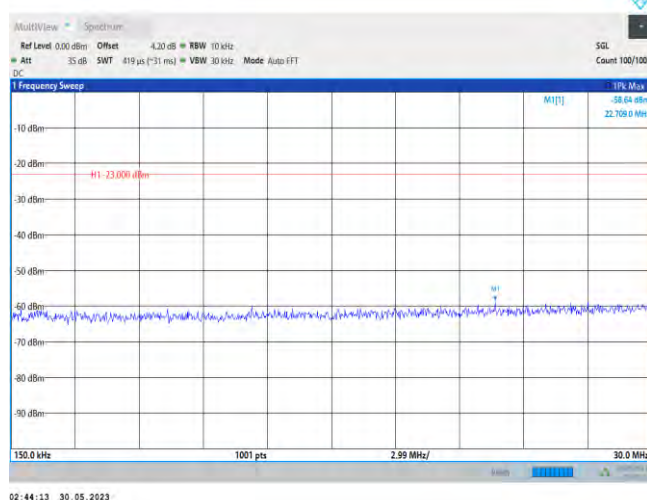
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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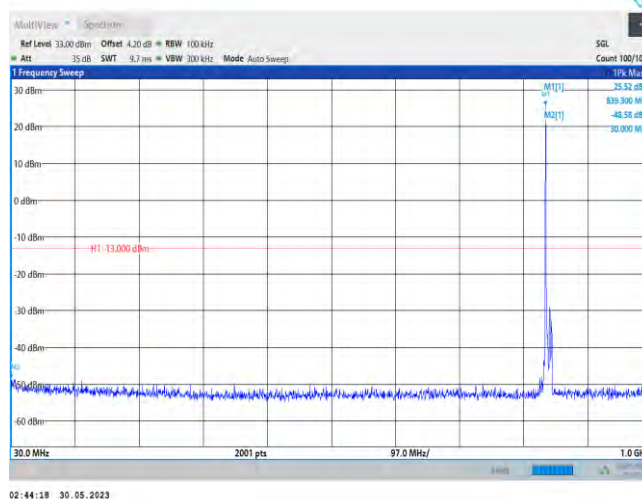
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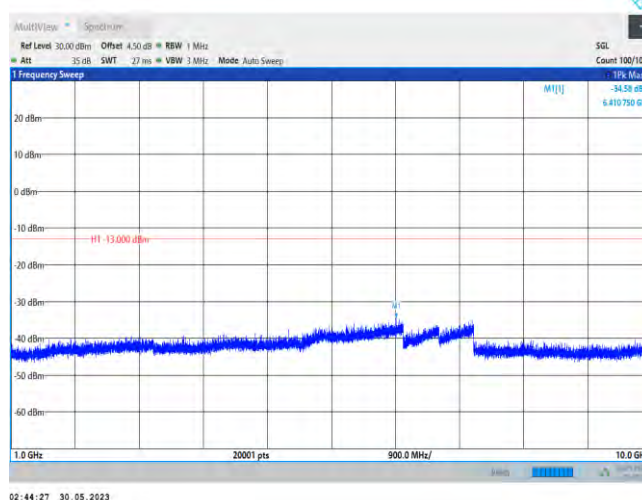
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_10MHz _ TM1
Test Channel = LOW ANT11

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	44.48	-48.22	25.37	-73.63	-13.00	60.63	255	133	Horizontal
2	2473.7700	42.78	-47.32	27.69	-72.11	-13.00	59.11	142	66	Horizontal
3	3298.3600	42.62	-46.68	29.56	-69.76	-13.00	56.76	169	158	Horizontal
4	4122.9500	41.58	-45.91	30.99	-68.61	-13.00	55.61	185	3	Horizontal
5	4947.5400	41.40	-45.69	32.73	-66.82	-13.00	53.82	174	277	Horizontal
6	5772.1300	39.88	-44.64	33.65	-66.37	-13.00	53.37	152	212	Horizontal

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	43.98	-48.22	25.37	-74.13	-13.00	61.13	174	81	Vertical
2	2473.7700	43.33	-47.32	27.69	-71.56	-13.00	58.56	185	1	Vertical
3	3298.3600	43.03	-46.68	29.56	-69.35	-13.00	56.35	196	18	Vertical
4	4122.9500	41.13	-45.91	30.99	-69.06	-13.00	56.06	141	29	Vertical
5	4947.5400	42.49	-45.69	32.73	-65.73	-13.00	52.73	142	43	Vertical
6	5772.1300	39.91	-44.64	33.65	-66.34	-13.00	53.34	156	334	Vertical



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Test Band = LTE Band 5_10MHz _ TM1
Test Channel = MID ANT11

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	43.51	-48.20	25.38	-74.58	-13.00	61.58	266	359	Horizontal
2	2496.2700	43.62	-47.28	27.76	-71.16	-13.00	58.16	145	251	Horizontal
3	3328.3600	42.82	-46.64	29.52	-69.56	-13.00	56.56	129	118	Horizontal
4	4160.4500	41.02	-45.94	31.04	-69.14	-13.00	56.14	184	304	Horizontal
5	4992.5400	41.47	-45.79	32.86	-66.72	-13.00	53.72	175	237	Horizontal
6	5824.6300	39.99	-44.74	33.80	-66.21	-13.00	53.21	136	25	Horizontal

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	43.58	-48.20	25.38	-74.51	-13.00	61.51	166	4	Vertical
2	2496.2700	42.56	-47.28	27.76	-72.22	-13.00	59.22	142	0	Vertical
3	3328.3600	42.91	-46.64	29.52	-69.47	-13.00	56.47	188	148	Vertical
4	4160.4500	41.10	-45.94	31.04	-69.06	-13.00	56.06	152	110	Vertical
5	4992.5400	41.16	-45.79	32.86	-67.03	-13.00	54.03	166	202	Vertical
6	5824.6300	40.42	-44.74	33.80	-65.78	-13.00	52.78	236	69	Vertical



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Test Band = LTE Band 5_10MHz _ TM1
Test Channel = HIGH ANT11

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	43.36	-48.18	25.38	-74.70	-13.00	61.70	219	276	Horizontal
2	2518.7700	43.61	-47.21	27.83	-71.02	-13.00	58.02	248	250	Horizontal
3	3358.3600	42.80	-46.60	29.48	-69.58	-13.00	56.58	275	66	Horizontal
4	4197.9500	41.11	-45.96	31.10	-69.01	-13.00	56.01	142	198	Horizontal
5	5037.5400	41.15	-45.65	32.90	-66.86	-13.00	53.86	126	355	Horizontal
6	5887.1300	40.18	-44.93	33.92	-66.09	-13.00	53.09	235	237	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	43.74	-48.18	25.38	-74.32	-13.00	61.32	241	134	Vertical
2	2518.7700	43.78	-47.21	27.83	-70.85	-13.00	57.85	253	319	Vertical
3	3358.3600	42.19	-46.60	29.48	-70.19	-13.00	57.19	236	280	Vertical
4	4197.9500	40.47	-45.96	31.10	-69.65	-13.00	56.65	299	347	Vertical
5	5037.5400	40.93	-45.65	32.90	-67.08	-13.00	54.08	281	1	Vertical
6	5887.1300	40.53	-44.93	33.92	-65.74	-13.00	52.74	170	28	Vertical



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Test Band = LTE 5A_7A_ TM1
Test Channel = LOW

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	44.33	-45.59	28.30	-68.22	-25.00	43.22	223	234	Horizontal
2	2473.7700	44.33	-45.59	28.30	-68.22	-25.00	43.22	258	234	Horizontal
3	3298.3600	43.81	-46.45	28.48	-69.42	-25.00	44.42	148	357	Horizontal
4	5002.1800	41.62	-45.63	31.41	-67.87	-25.00	42.87	162	234	Horizontal
5	7503.2700	38.90	-43.13	36.60	-62.89	-25.00	37.89	154	325	Horizontal
6	10004.3600	35.63	-39.23	38.20	-60.66	-25.00	35.66	187	54	Horizontal

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	43.81	-45.59	28.30	-68.74	-25.00	43.74	112	90	Vertical
2	2473.7700	43.81	-45.59	28.30	-68.74	-25.00	43.74	187	90	Vertical
3	3298.3600	43.66	-46.45	28.48	-69.57	-25.00	44.57	154	360	Vertical
4	5002.1800	42.52	-45.63	31.41	-66.97	-25.00	41.97	169	252	Vertical
5	7503.2700	39.22	-43.13	36.60	-62.57	-25.00	37.57	287	324	Vertical
6	10004.3600	35.19	-39.23	38.20	-61.10	-25.00	36.10	142	142	Vertical



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Test Band = LTE 5A_7A_ TM1
Test Channel = MID

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	44.25	-45.59	28.30	-68.30	-25.00	43.30	187	163	Horizontal
2	2496.2700	44.25	-45.59	28.30	-68.30	-25.00	43.30	155	163	Horizontal
3	3328.3600	45.03	-46.41	28.50	-68.14	-25.00	43.14	132	200	Horizontal
4	5052.1800	42.05	-45.50	31.53	-67.18	-25.00	42.18	152	20	Horizontal
5	7578.2700	38.93	-42.98	36.63	-62.67	-25.00	37.67	169	2	Horizontal
6	10104.3600	35.14	-39.14	38.25	-61.00	-25.00	36.00	158	0	Horizontal

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	43.52	-45.59	28.30	-69.03	-25.00	44.03	187	233	Vertical
2	2496.2700	43.52	-45.59	28.30	-69.03	-25.00	44.03	145	233	Vertical
3	3328.3600	43.58	-46.41	28.50	-69.59	-25.00	44.59	144	178	Vertical
4	5052.1800	41.70	-45.50	31.53	-67.53	-25.00	42.53	232	214	Vertical
5	7578.2700	39.43	-42.98	36.63	-62.17	-25.00	37.17	256	71	Vertical
6	10104.3600	34.90	-39.14	38.25	-61.24	-25.00	36.24	192	3	Vertical



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Test Band = LTE 5A_7A_ TM1

Test Channel = HIGH

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	44.01	-45.59	28.30	-68.54	-25.00	43.54	110	324	Horizontal
2	2518.7700	44.01	-45.59	28.30	-68.54	-25.00	43.54	187	324	Horizontal
3	3358.3600	43.77	-46.35	28.52	-69.33	-25.00	44.33	145	162	Horizontal
4	5102.1800	42.00	-45.37	31.65	-66.98	-25.00	41.98	232	356	Horizontal
5	7653.2700	39.87	-43.03	36.66	-61.76	-25.00	36.76	254	288	Horizontal
6	10204.3600	34.34	-39.48	38.30	-62.10	-25.00	37.10	187	356	Horizontal

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	-45.59	28.30	-68.11	-25.00	43.11	158	360	Vertical
2	2518.7700	44.44	-45.59	28.30	-68.11	-25.00	43.11	259	360	Vertical
3	3358.3600	43.44	-46.35	28.52	-69.66	-25.00	44.66	135	161	Vertical
4	5102.1800	40.86	-45.37	31.65	-68.12	-25.00	43.12	162	360	Vertical
5	7653.2700	39.30	-43.03	36.66	-62.33	-25.00	37.33	147	178	Vertical
6	10204.3600	33.90	-39.48	38.30	-62.54	-25.00	37.54	172	91	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	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.30	-0.001554	±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	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.70	0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.00	-0.003586	±2.5	PASS

---End of Attachment---



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