



Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.71	14.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.86	14.91	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.71	14.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.81	13.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.86	14.91	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.99	15.04	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.83	14.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.99	14.04	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.88	14.93	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.78	14.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.36	14.41	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.49	13.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.9	13.95	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.12	14.17	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.97	14.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.96	13.01	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.07	14.12	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.25	14.3	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.05	14.1	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.06	13.11	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.99	14.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.62	13.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.48	13.53	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.64	12.69	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.06	13.11	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.1	13.15	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.03	13.08	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.88	11.93	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.16	13.21	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.24	13.29	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.13	13.18	38.45	PASS



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Band5	1.4MHz	64QAM	20525	6RB#0	21.05	12.1	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.13	13.18	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.27	13.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.02	13.07	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.03	12.08	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.77	14.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.8	14.85	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.81	14.86	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.8	13.85	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.94	14.99	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.91	14.96	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.91	14.96	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23	14.05	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.98	15.03	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.9	14.95	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.4	14.45	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.49	13.54	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.03	14.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.03	14.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.99	14.04	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.88	12.93	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.19	14.24	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.04	14.09	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.12	14.17	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.05	13.1	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.19	14.24	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.7	13.75	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.58	13.63	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.57	12.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.07	13.12	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.14	13.19	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.09	13.14	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.89	11.94	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.18	13.23	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.19	13.24	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.18	13.23	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.05	12.1	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.22	13.27	38.45	PASS



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Band5	3MHz	64QAM	20635	1RB#8	22.22	13.27	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.1	13.15	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.08	12.13	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.66	14.71	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.99	15.04	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.75	14.8	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.86	13.91	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.8	14.85	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.06	15.11	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.79	14.84	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.98	14.03	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.81	14.86	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.12	15.17	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.46	14.51	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.57	13.62	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.88	13.93	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.18	14.23	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.92	13.97	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.93	12.98	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.94	13.99	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.35	14.4	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.03	14.08	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.03	13.08	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.9	13.95	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.33	14.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.47	13.52	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.93	12.98	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.97	13.02	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.26	13.31	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.09	13.14	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.95	12	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.16	13.21	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.34	13.39	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.04	13.09	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.04	12.09	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.02	13.07	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.37	13.42	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.07	13.12	38.45	PASS



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Band5	5MHz	64QAM	20625	25RB#0	21.08	12.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.77	14.82	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.99	15.04	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.89	14.94	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.97	14.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.84	14.89	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.04	15.09	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.88	14.93	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.06	14.11	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.92	14.97	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.02	15.07	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.89	14.94	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.97	14.02	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.93	13.98	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.2	14.25	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.09	14.14	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.02	13.07	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.11	14.16	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.25	14.3	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.09	14.14	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.12	13.17	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.02	14.07	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.14	14.19	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.92	13.97	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.05	13.1	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.04	13.09	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.27	13.32	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	23.9	14.95	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.08	12.13	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.1	13.15	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.29	13.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.16	13.21	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.18	12.23	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.17	13.22	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.29	13.34	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.17	13.22	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.09	12.14	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

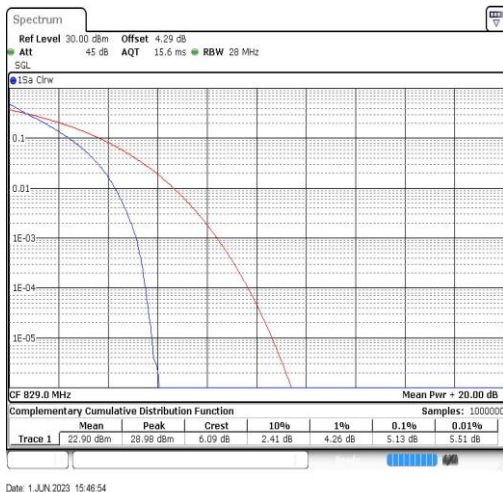
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.13	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.81	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.07	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	4.78	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.77	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	5.97	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	5.83	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	5.94	13	PASS



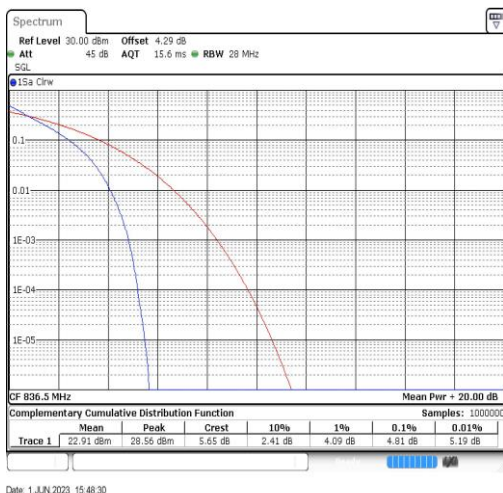
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Test Graphs



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

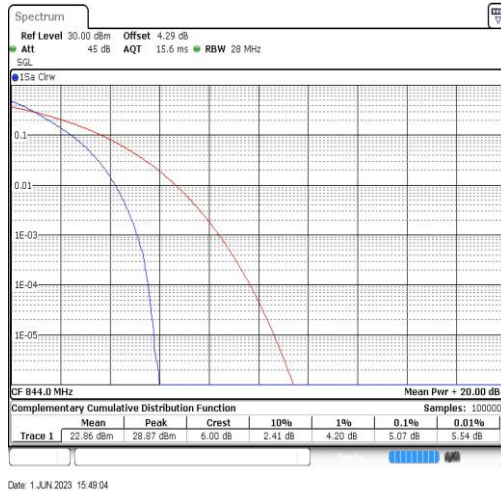


Band5-10MHz-QPSK-20525-50RB#0



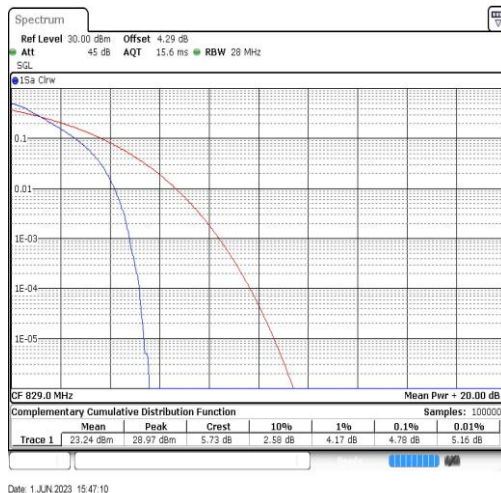
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Date: 1 JUN 2023 15:48:04

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



Date: 1 JUN 2023 15:47:10

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

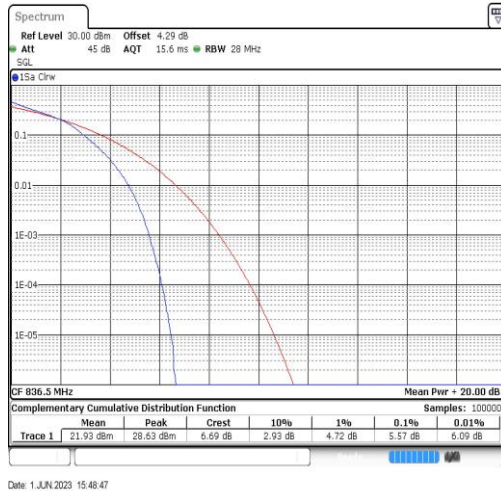


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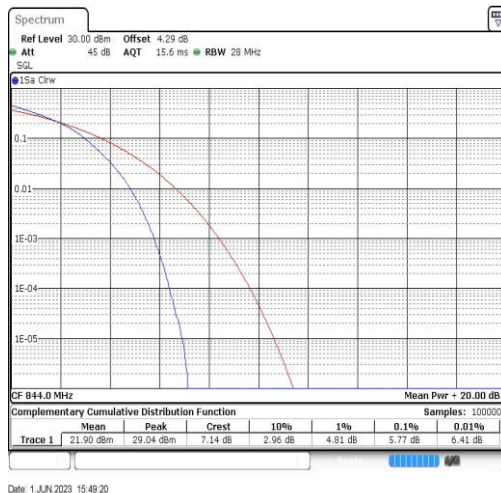
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Date: 1 JUN 2023 15:48:47

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



Date: 1 JUN 2023 15:49:20

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

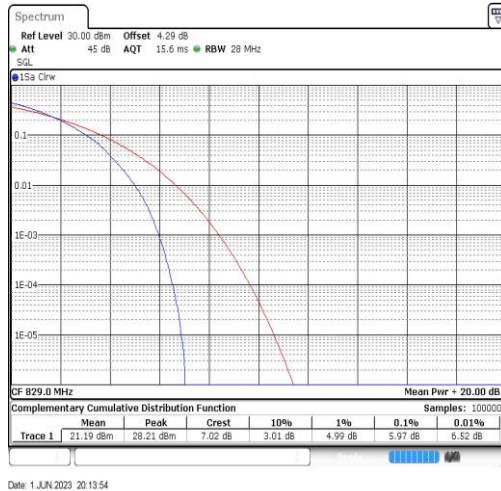


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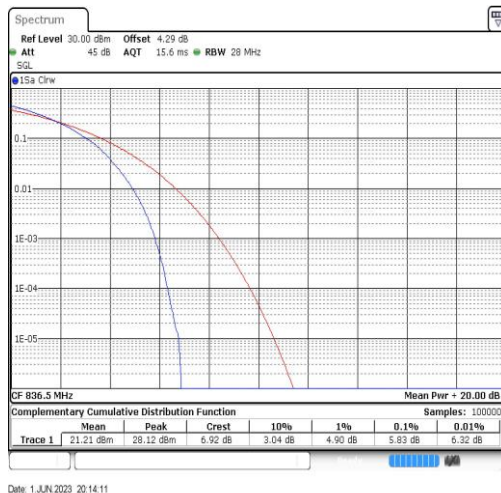
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Date: 1.JUN.2023 20:13:54

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



Date: 1.JUN.2023 20:14:11

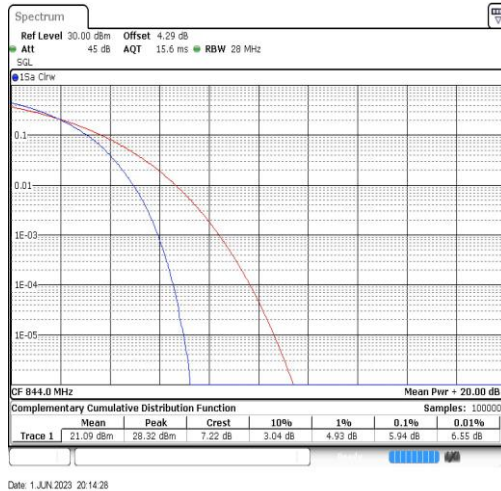
Band5-10MHz-64QAM-20525-50RB#0



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Date: 1 JUN 2023 20:14:28

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



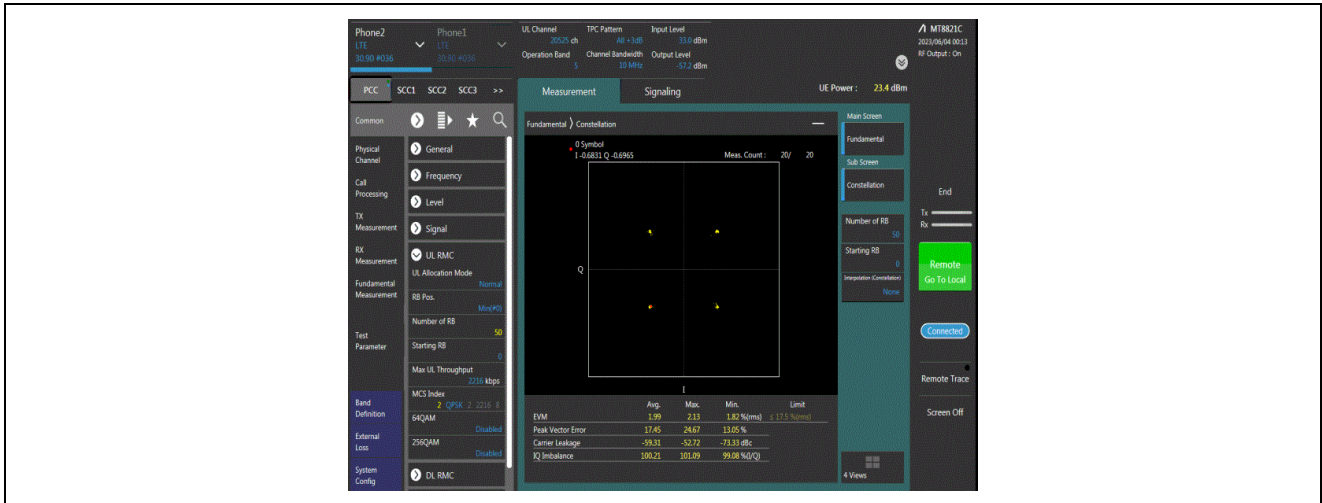
Modulation Characteristics

Test Result

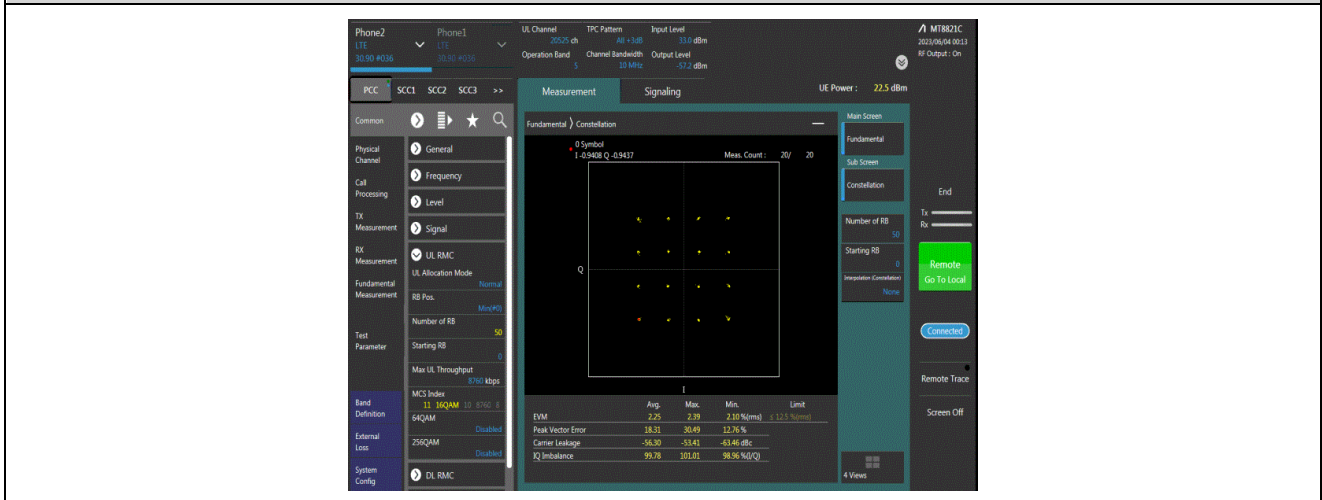
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



Test Graphs



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



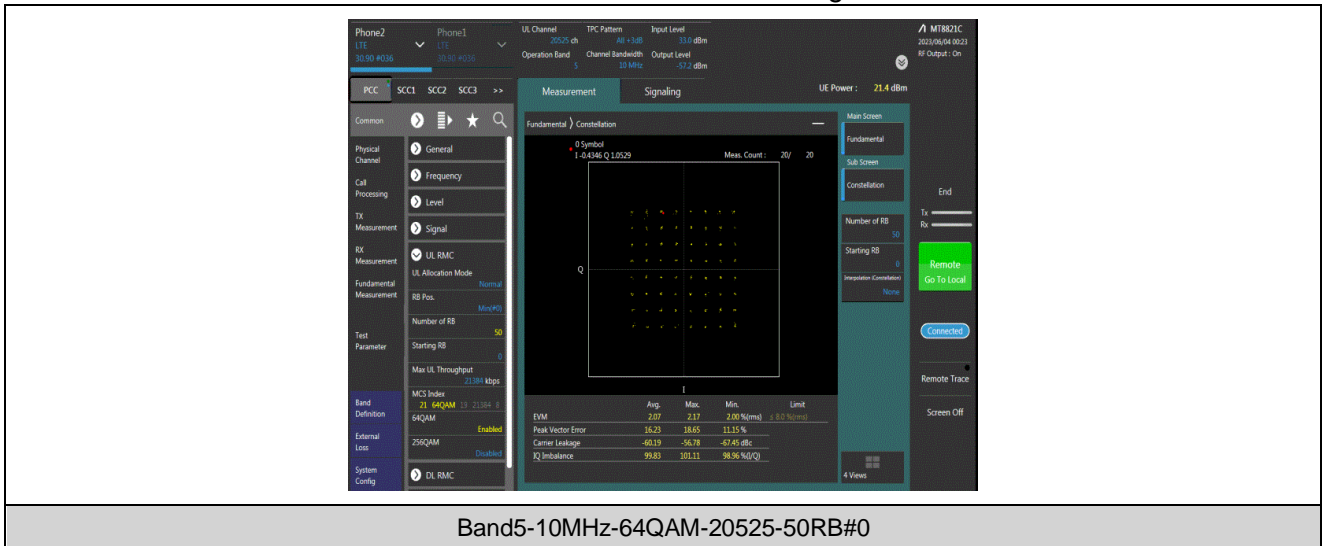
Band5-10MHz-16QAM-20525-50RB#0



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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	1.088	1.27	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.085	1.27	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.085	1.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.29	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.32	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.32	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.90	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.90	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.91	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.91	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.679	2.89	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.685	2.90	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.679	2.89	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.80	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.83	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.83	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.456	4.84	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.86	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.85	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.84	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.86	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.85	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.56	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.58	PASS



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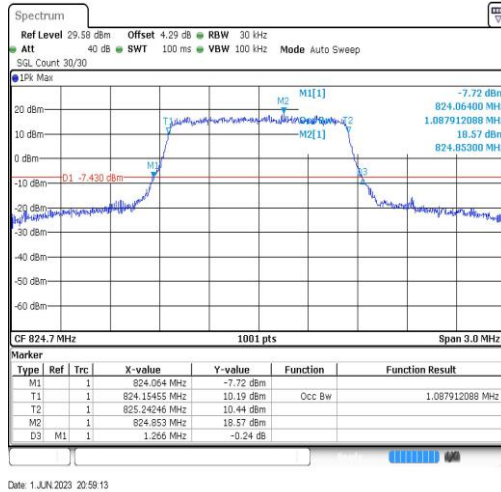
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.54	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.52	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.54	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.60	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.931	9.66	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.60	PASS



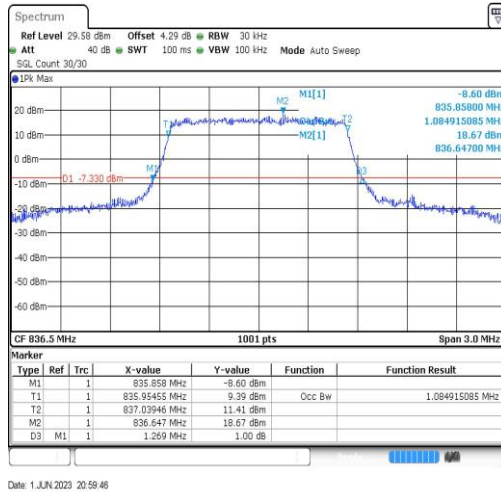
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Test Graphs



Band5-1.4MHz-QPSK-20407-6RB#0-1.088

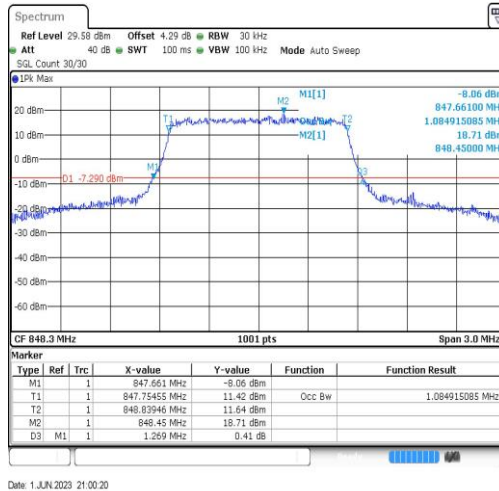


Band5-1.4MHz-QPSK-20525-6RB#0-1.085

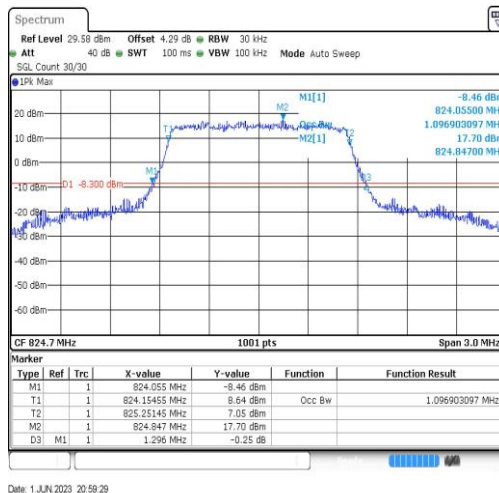


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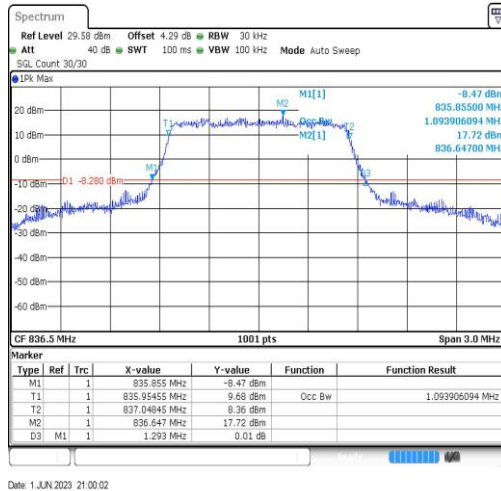


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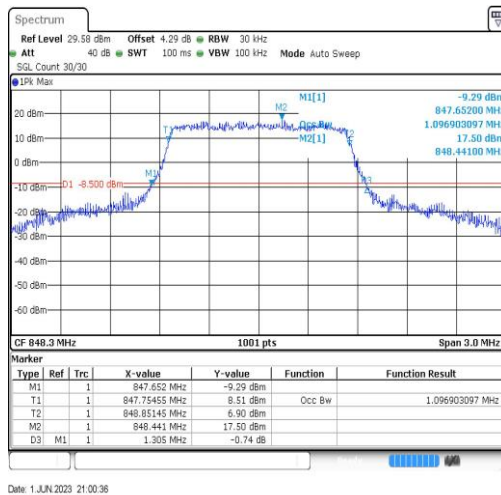


Band5-1.4MHz-16QAM-20407-6RB#0-1.097





Band5-1.4MHz-16QAM-20525-6RB#0-1.094

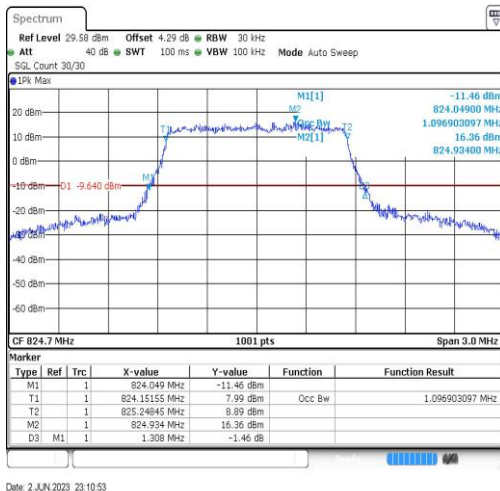


Band5-1.4MHz-16QAM-20643-6RB#0-1.097



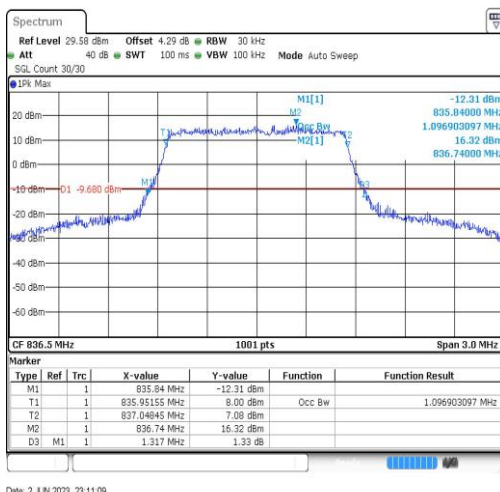
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Date: 2.JUN.2023 23:10:53

Band5-1.4MHz-64QAM-20407-6RB#0-1.097



Date: 2.JUN.2023 23:11:09

Band5-1.4MHz-64QAM-20525-6RB#0-1.097

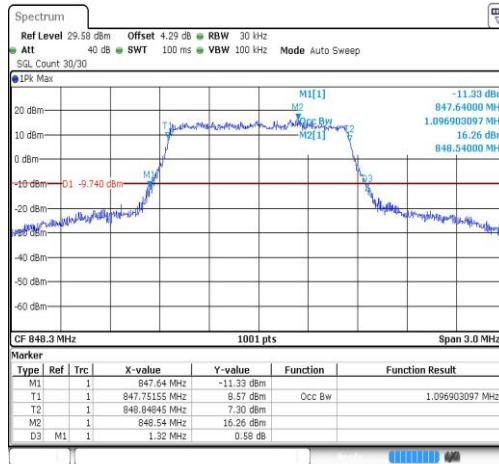


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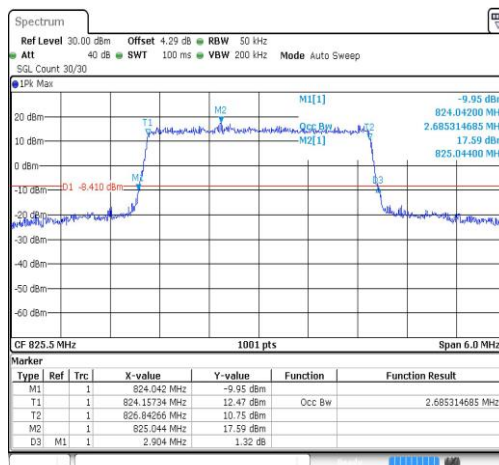
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Date: 2 JUN 2023 23:11:25

Band5-1.4MHz-64QAM-20643-6RB#0-1.097



Date: 1 JUN 2023 21:01:13

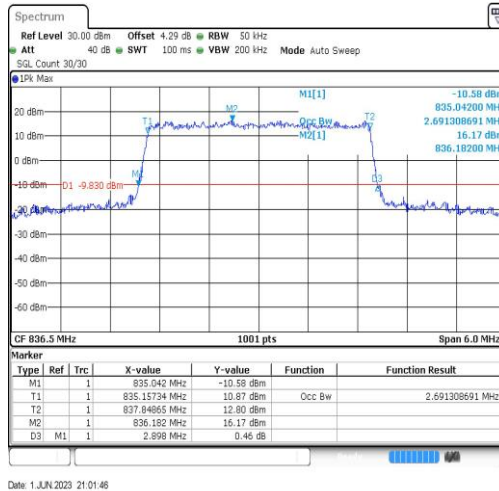
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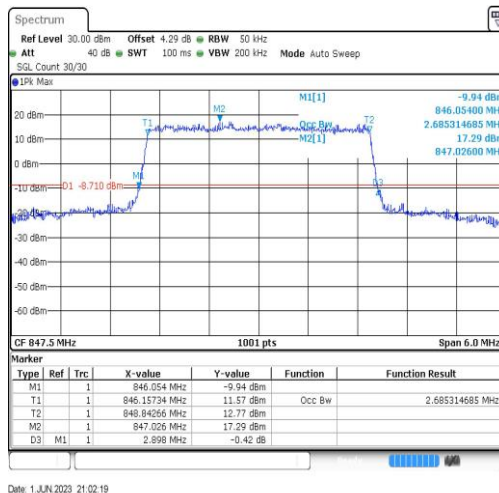
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Date: 1.JUN.2023 21:01:46

Band5-3MHz-QPSK-20525-15RB#0-2.691



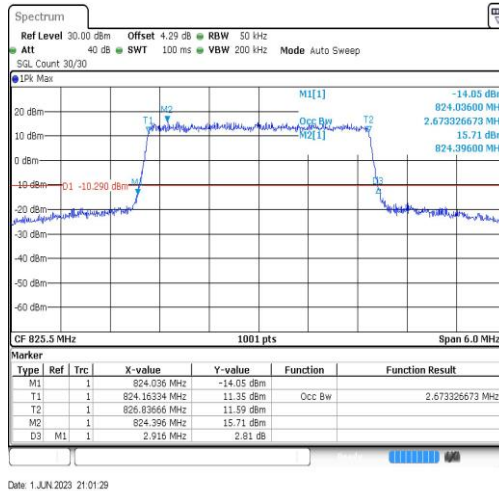
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Band5-3MHz-QPSK-20635-15RB#0-2.685



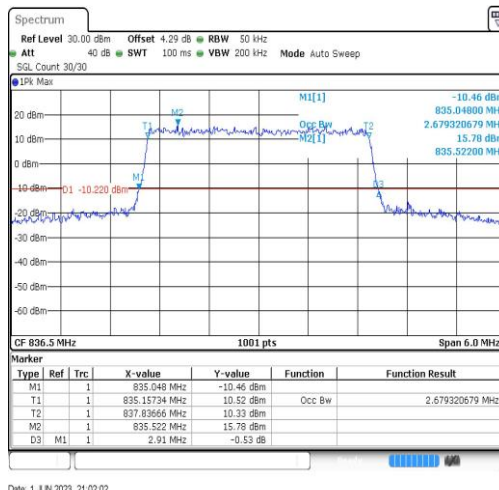
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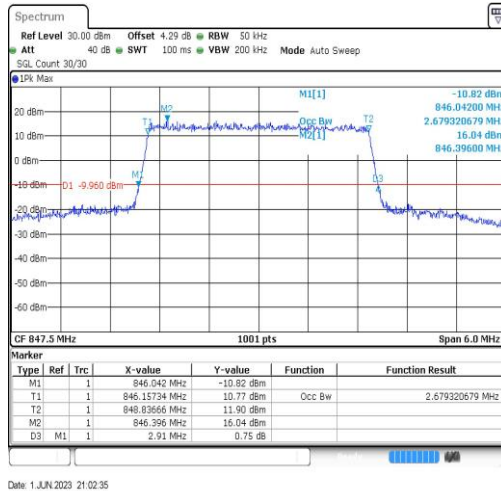
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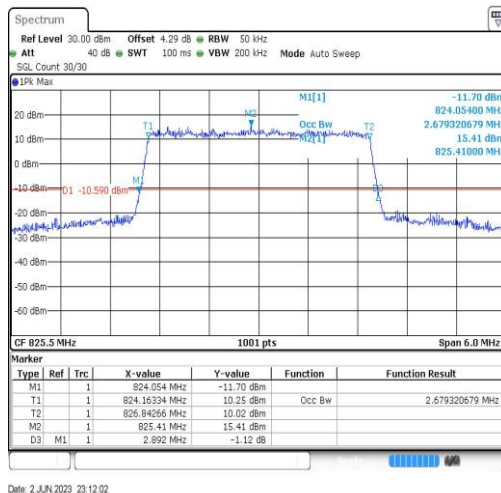
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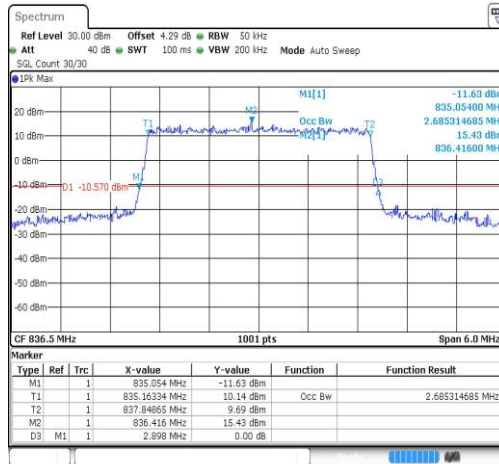
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Band5-3MHz-64QAM-20415-15RB#0-2.679



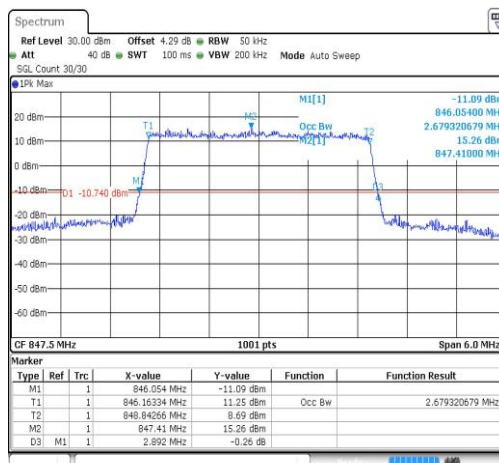
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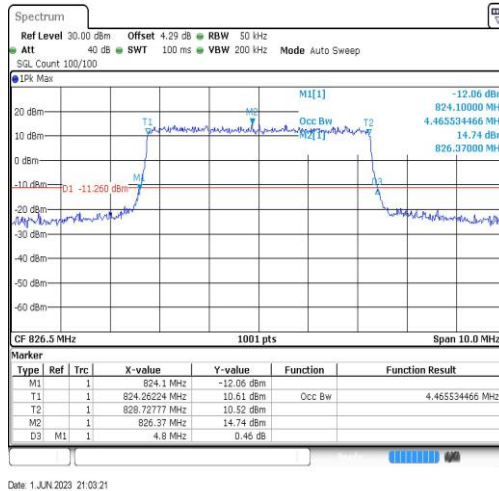
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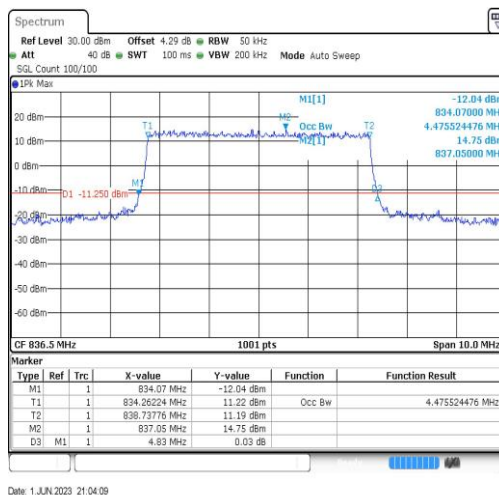
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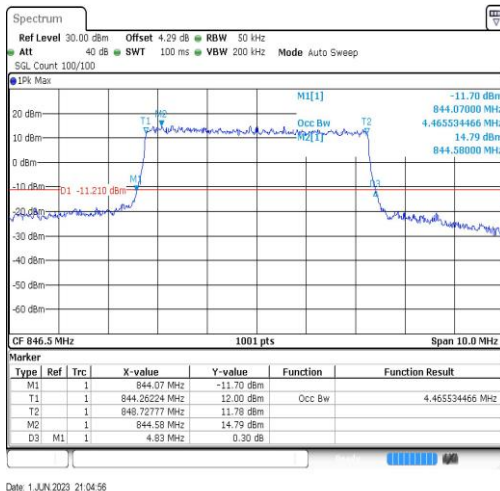
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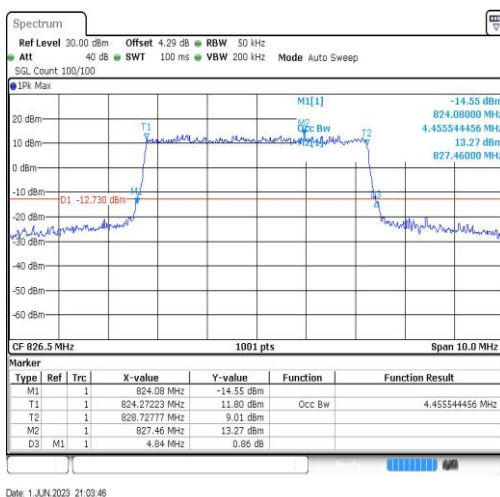
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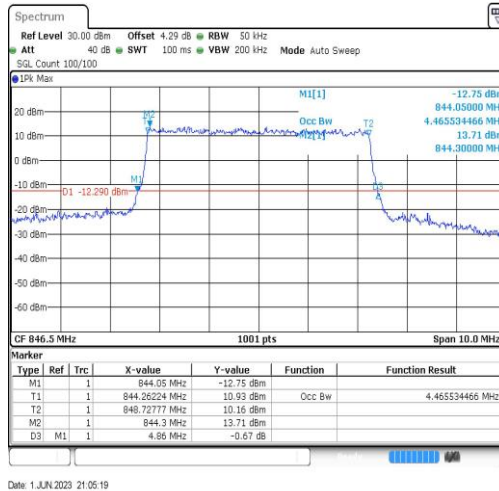
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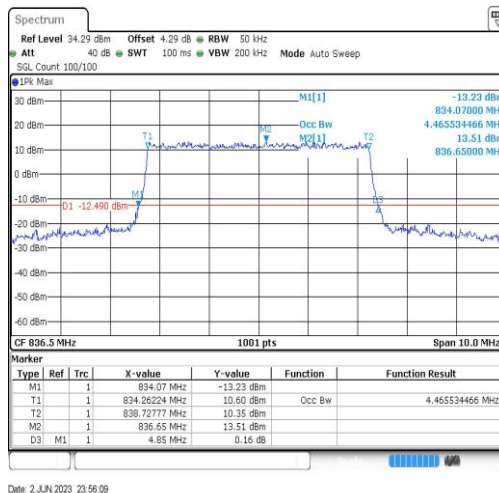
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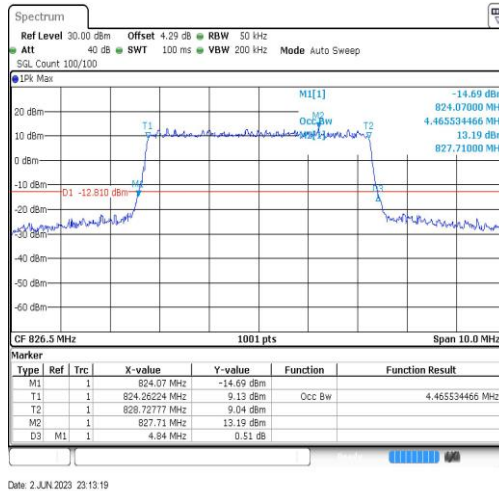
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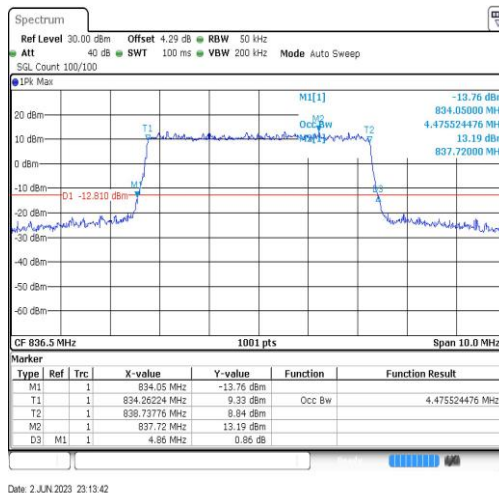
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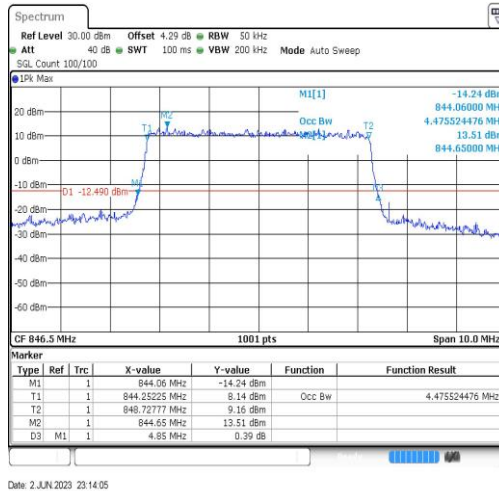
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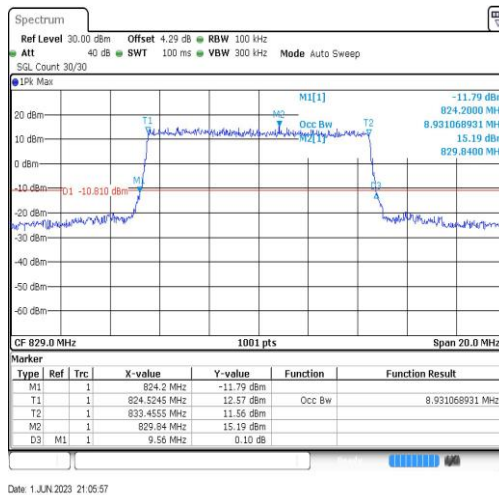
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Band5-5MHz-64QAM-20525-25RB#0-4.476





Band5-5MHz-64QAM-20625-25RB#0-4.476

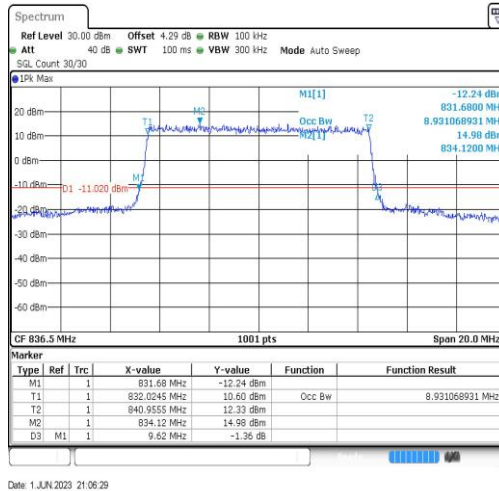


Band5-10MHz-QPSK-20450-50RB#0-8.931



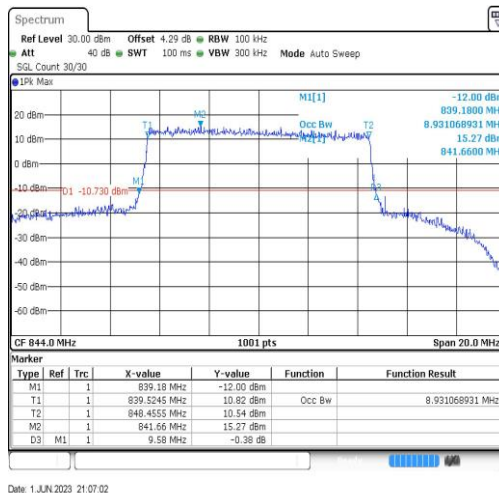
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Band5-10MHz-QPSK-20525-50RB#0-8.931



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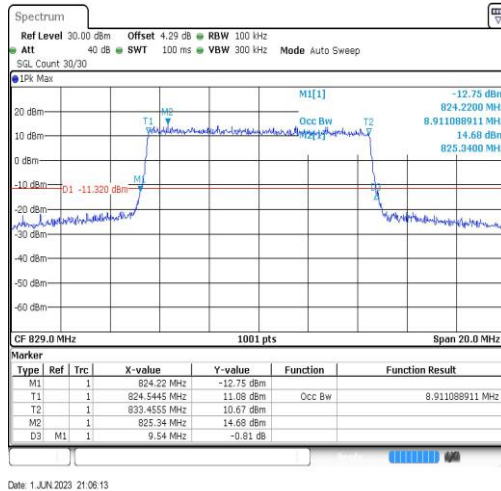
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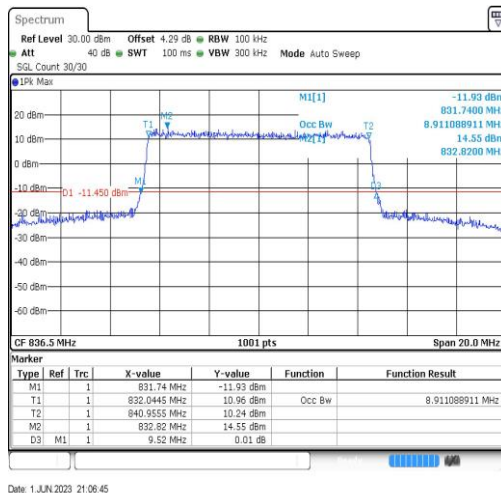
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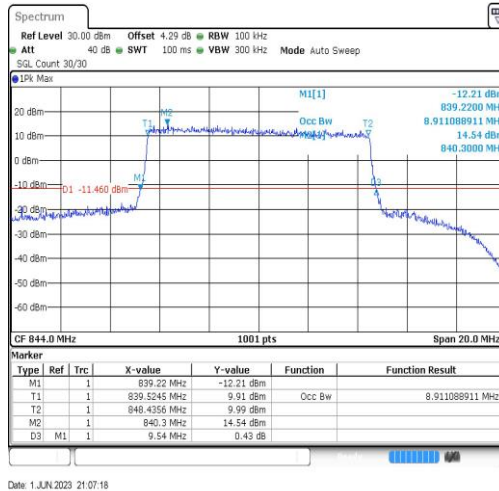
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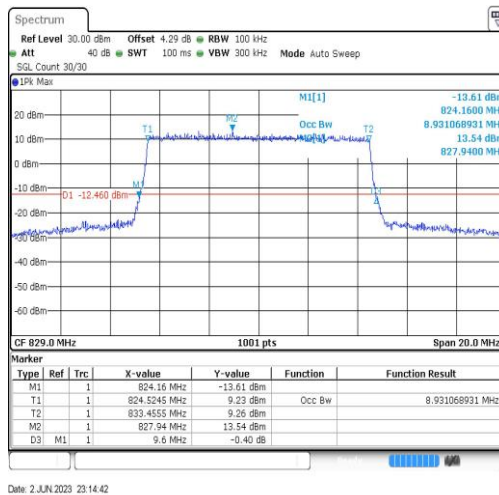
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Band5-10MHz-16QAM-20525-50RB#0-8.911





Band5-10MHz-16QAM-20600-50RB#0-8.911



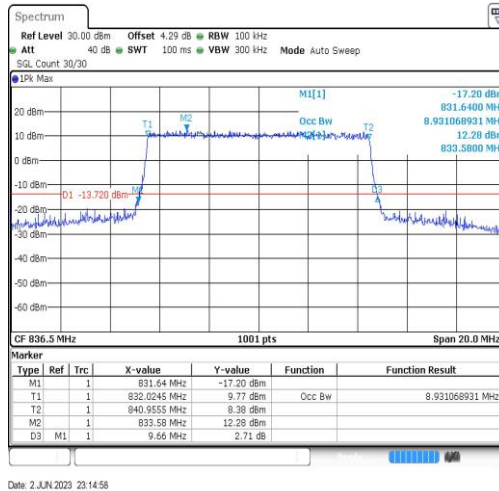
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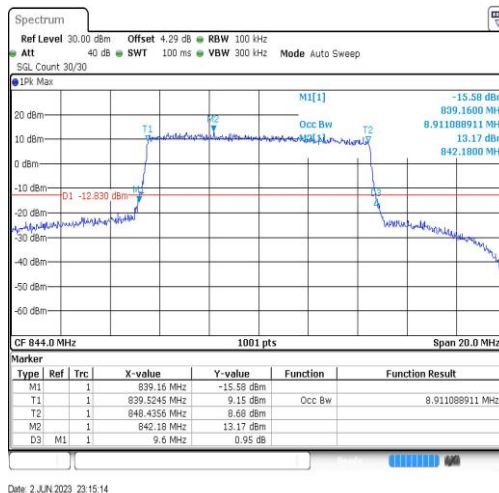
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Band5-10MHz-64QAM-20525-50RB#0-8.931



Band5-10MHz-64QAM-20600-50RB#0-8.911



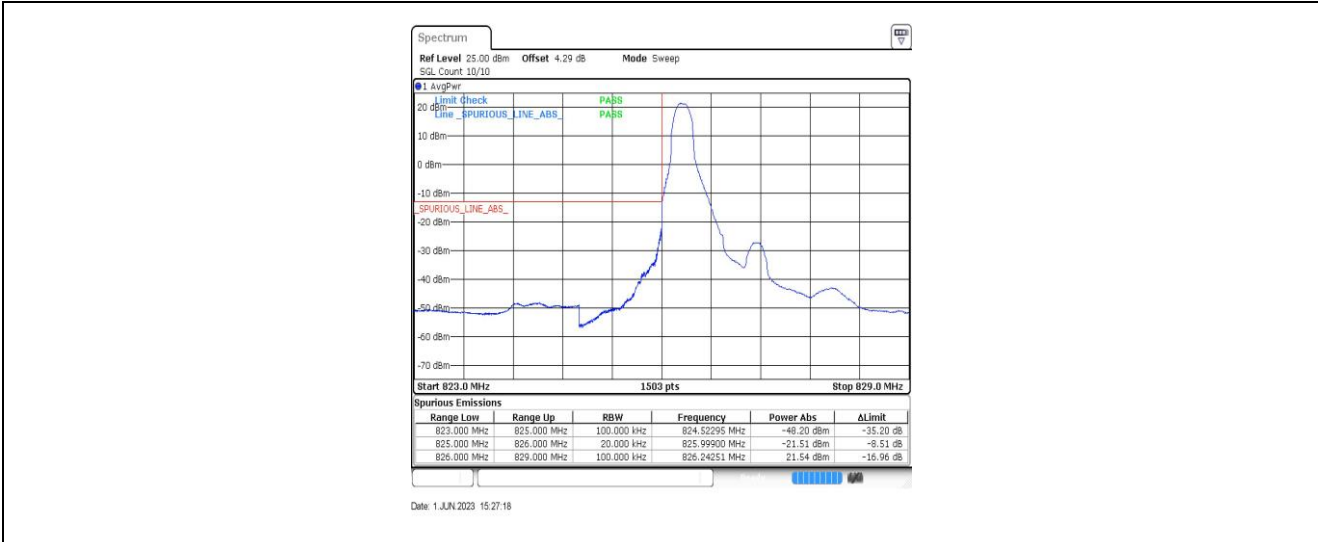
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Band Edge

Test Graphs



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



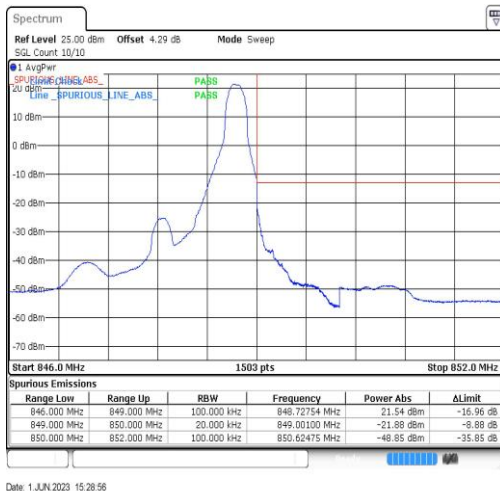
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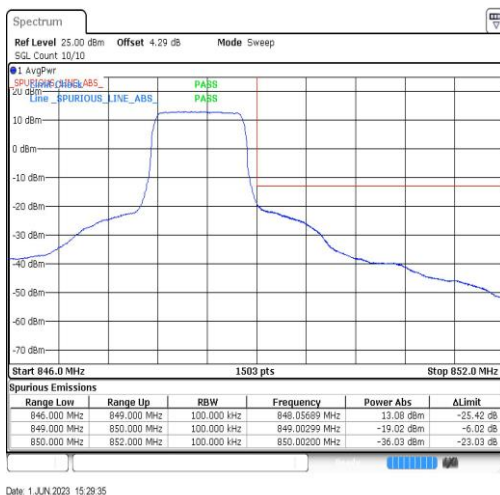
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Band5-1.4MHz-QPSK-20643-1RB#5



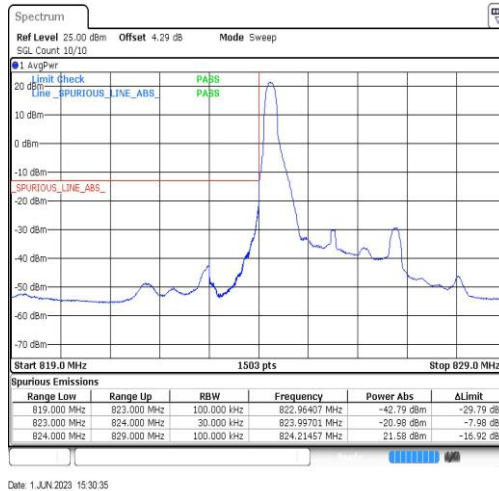
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Band5-3MHz-QPSK-20415-1RB#0

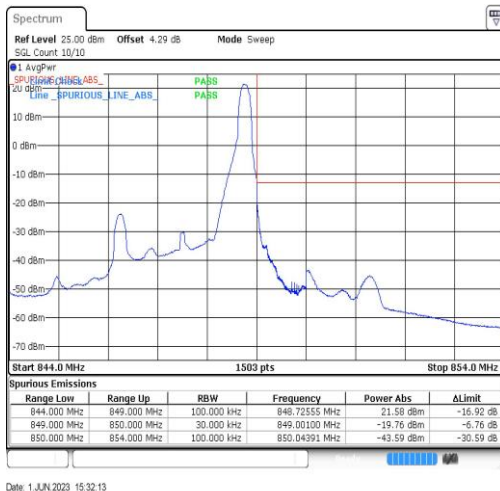


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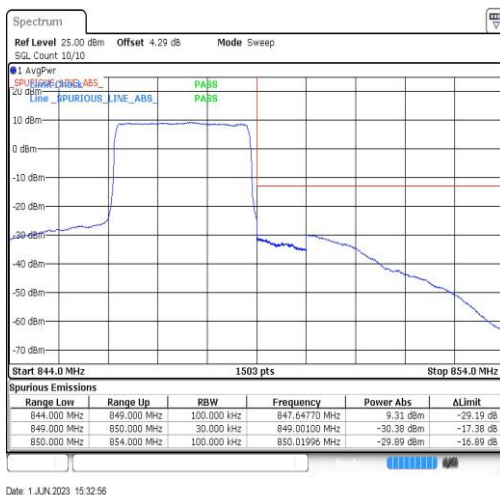


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Band5-3MHz-QPSK-20635-1RB#14



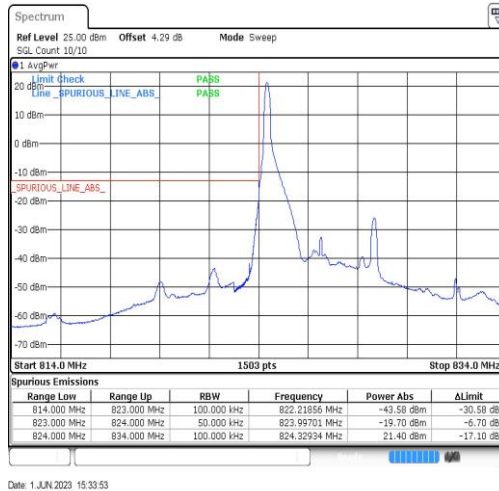
Band5-3MHz-QPSK-20635-15RB#0



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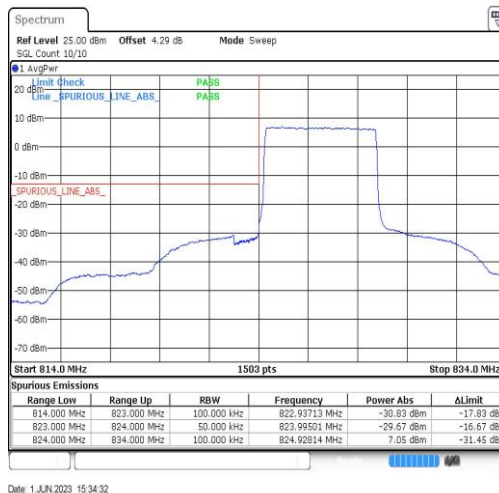
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Date: 1 JUN 2023 15:33:53

Band5-5MHz-QPSK-20425-1RB#0



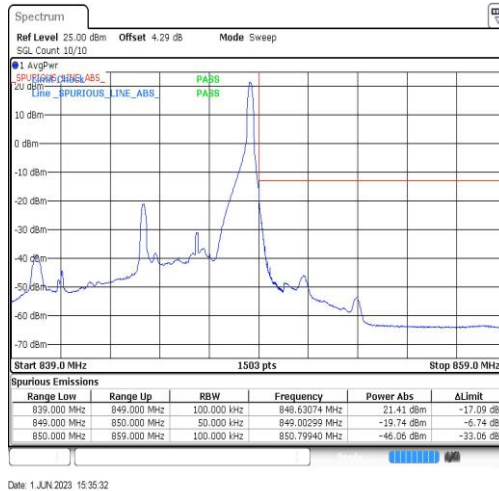
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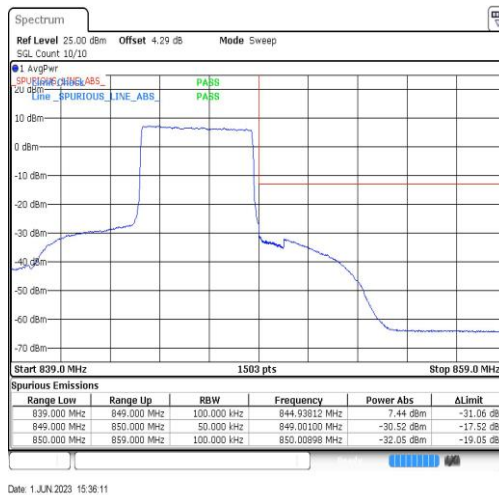


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Band5-5MHz-QPSK-20625-1RB#24

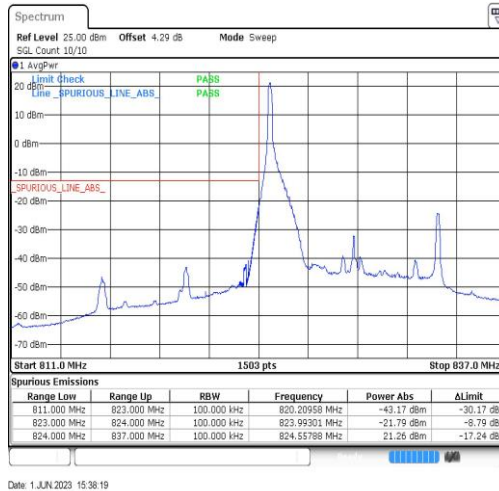


Band5-5MHz-QPSK-20625-25RB#0

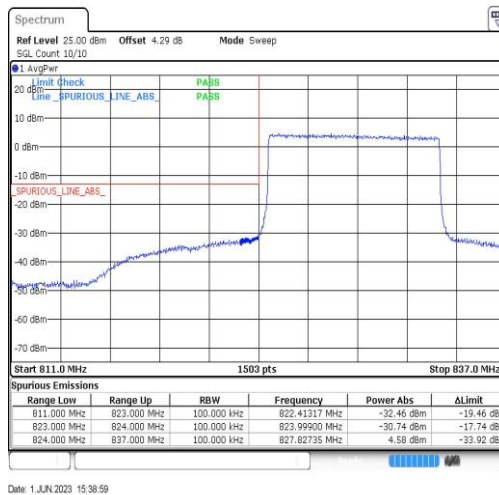


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Band5-10MHz-QPSK-20450-1RB#0

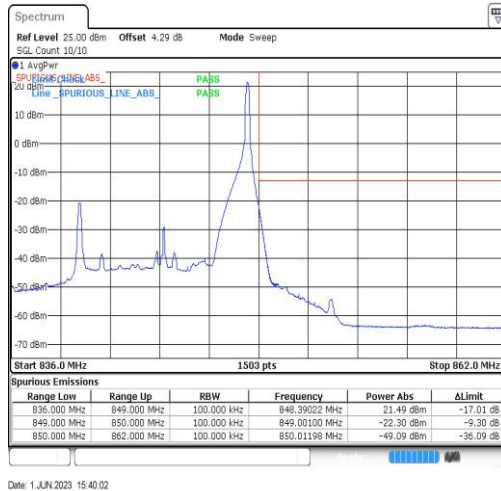


Band5-10MHz-QPSK-20450-50RB#0



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



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

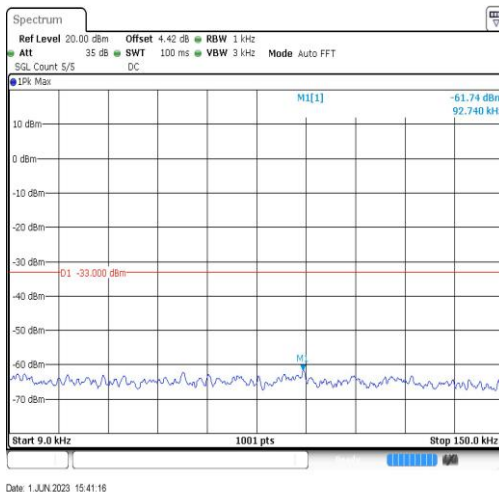


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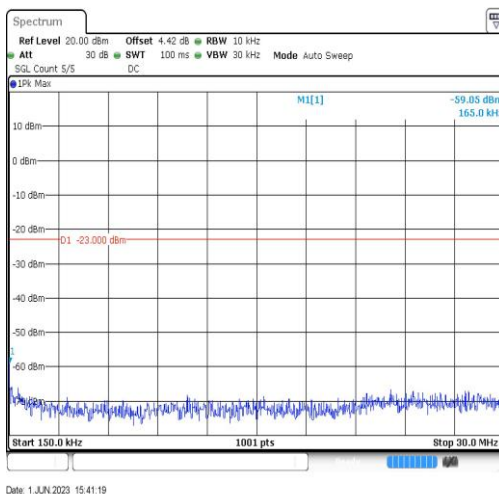
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Conducted Spurious Emission

Test Graphs



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



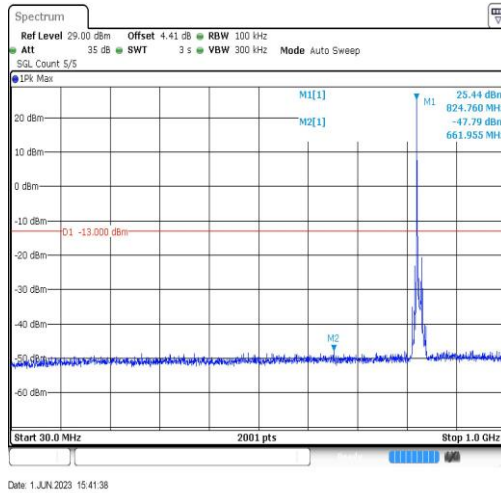
Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



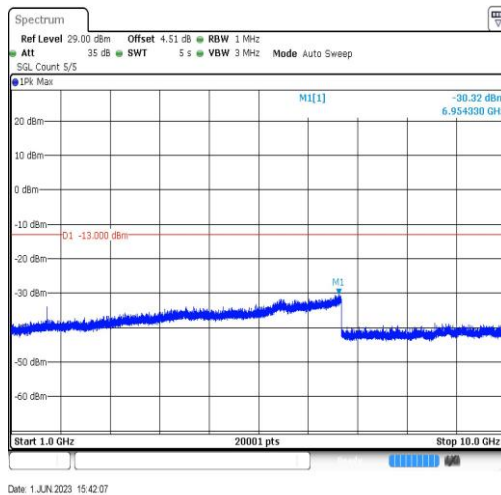
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



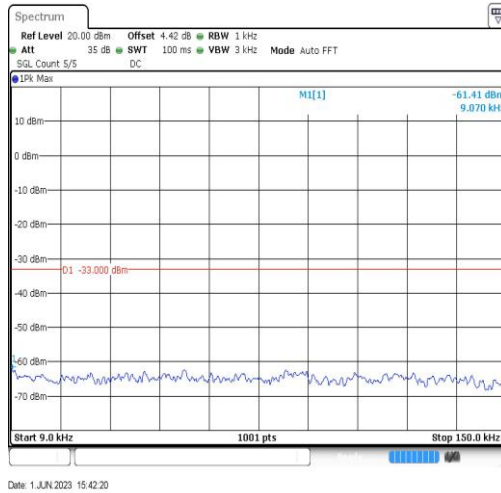
Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



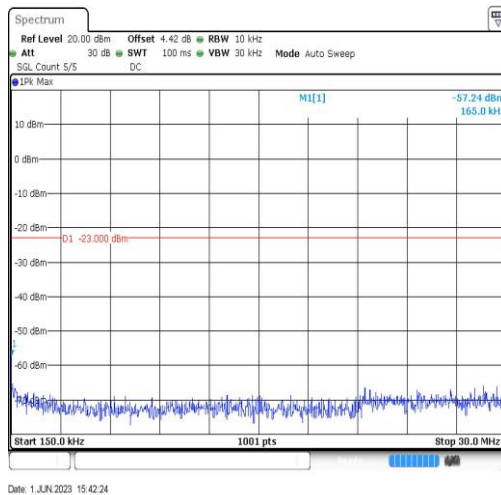
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



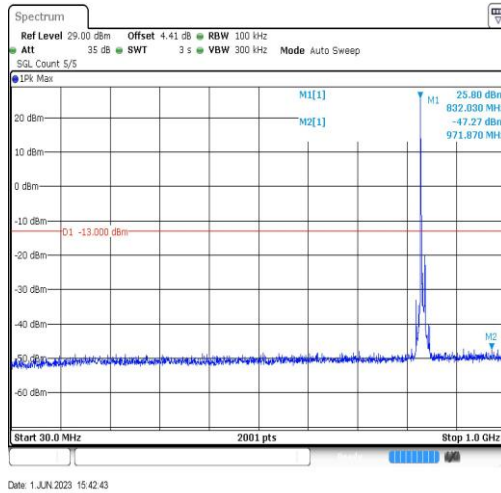
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



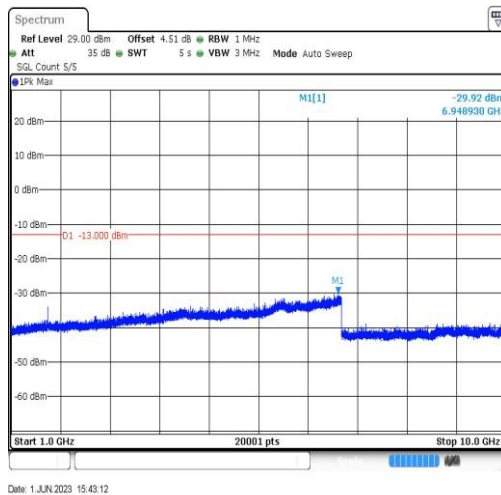
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



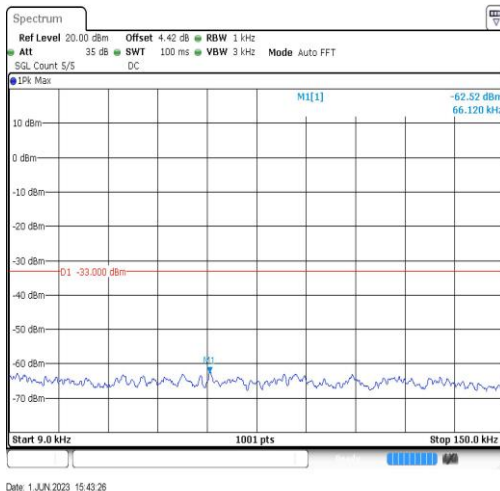
Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



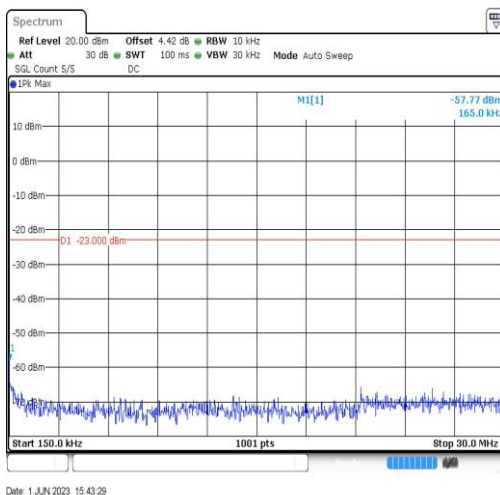
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz

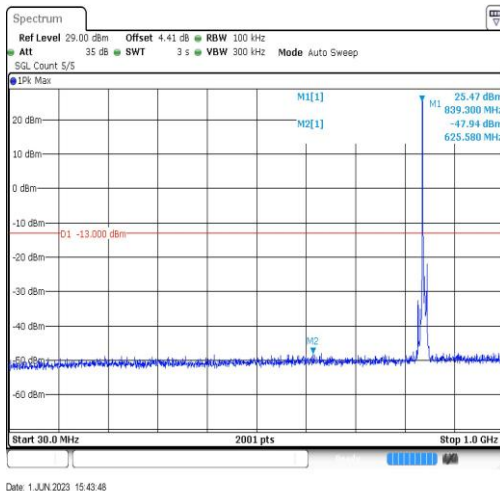


Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz

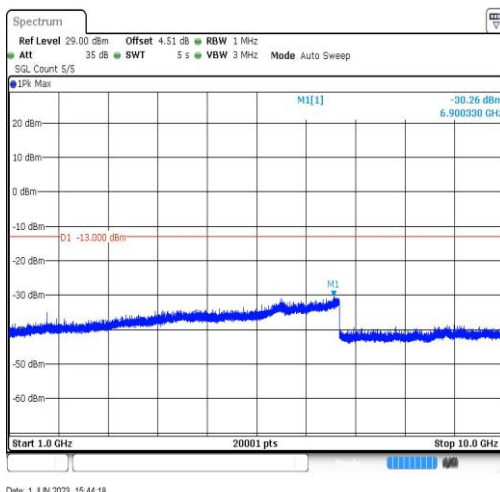


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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_5_ANT 31_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1648.9324	59.66	-52.88	25.90	-62.58	-13.00	49.58	272	70	Horizontal
2	2477.8739	53.92	-51.24	27.96	-64.62	-13.00	51.62	132	6	Horizontal
3	3235.2618	52.56	-49.98	30.54	-62.14	-13.00	49.14	339	344	Horizontal
4	5069.5535	50.40	-44.41	33.44	-55.83	-13.00	42.83	178	256	Horizontal
5	7361.9681	48.42	-42.73	36.88	-52.69	-13.00	39.69	174	260	Horizontal
6	9573.3787	46.53	-39.62	39.15	-49.20	-13.00	36.20	304	138	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1407.2704	54.48	-53.64	25.79	-68.63	-13.00	55.63	347	16	Vertical
2	2607.4804	55.27	-51.25	28.39	-62.85	-13.00	49.85	159	310	Vertical
3	3767.1884	52.44	-48.66	30.50	-60.98	-13.00	47.98	326	139	Vertical
4	5130.3065	50.25	-44.21	33.56	-55.66	-13.00	42.66	102	94	Vertical
5	7357.4679	48.91	-42.76	36.89	-52.22	-13.00	39.22	247	158	Vertical
6	9545.0273	46.76	-39.89	39.11	-49.28	-13.00	36.28	393	339	Vertical



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Test Band = LTE_5_ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1399.17	54.39	-53.71	25.80	-68.78	-13.00	55.78	264	247	Horizontal
2	1664.2332	55.15	-52.81	25.87	-67.05	-13.00	54.05	143	212	Horizontal
3	2541.3271	53.96	-50.95	28.25	-64.00	-13.00	51.00	168	85	Horizontal
4	5127.6064	50.20	-44.19	33.56	-55.69	-13.00	42.69	157	320	Horizontal
5	7468.6234	48.81	-42.74	36.66	-52.53	-13.00	39.53	110	242	Horizontal
6	9005.4503	47.78	-40.77	38.79	-49.46	-13.00	36.46	165	256	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1167.8584	54.41	-53.41	25.79	-68.47	-13.00	55.47	146	270	Vertical
2	1688.5344	54.15	-52.70	25.82	-67.99	-13.00	54.99	357	344	Vertical
3	2527.8264	54.28	-51.03	28.17	-63.84	-13.00	50.84	137	64	Vertical
4	3951.2476	51.48	-47.85	30.90	-60.73	-13.00	47.73	180	334	Vertical
5	7399.32	48.51	-42.52	36.80	-52.47	-13.00	39.47	258	305	Vertical
6	9601.2801	46.44	-39.36	39.19	-48.99	-13.00	35.99	349	334	Vertical



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Test Band = LTE_5_ANT 31_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1679.084	61.69	-52.74	25.84	-60.47	-13.00	47.47	118	74	Horizontal
2	2536.3768	53.59	-50.98	28.22	-64.43	-13.00	51.43	270	138	Horizontal
3	3964.7482	51.48	-47.90	30.96	-60.72	-13.00	47.72	135	11	Horizontal
4	5128.0564	50.54	-44.20	33.56	-55.36	-13.00	42.36	178	143	Horizontal
5	7483.4742	48.73	-42.66	36.63	-52.56	-13.00	39.56	395	79	Horizontal
6	9305.6153	47.53	-40.58	38.77	-49.54	-13.00	36.54	394	124	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1679.084	55.75	-52.74	25.84	-66.41	-13.00	53.41	145	208	Vertical
2	2537.2769	53.32	-50.98	28.22	-64.70	-13.00	51.70	290	80	Vertical
3	3281.1641	52.29	-49.78	30.66	-62.09	-13.00	49.09	105	31	Vertical
4	5076.7538	50.53	-44.32	33.45	-55.60	-13.00	42.60	244	232	Vertical
5	7490.2245	48.90	-42.62	36.62	-52.36	-13.00	39.36	229	7	Vertical
6	9596.3298	46.52	-39.39	39.19	-48.94	-13.00	35.94	260	183	Vertical



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Test Band = LTE_5_ANT 13_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1648.9324	70.93	-52.88	25.90	-51.31	-13.00	38.31	161	163	Horizontal
2	2473.8237	61.44	-51.24	27.95	-57.11	-13.00	44.11	291	21	Horizontal
3	3535.4268	52.50	-49.11	30.01	-61.86	-13.00	48.86	198	11	Horizontal
4	5070.9035	50.37	-44.39	33.44	-55.84	-13.00	42.84	315	138	Horizontal
5	7369.1685	48.53	-42.69	36.86	-52.56	-13.00	39.56	129	334	Horizontal
6	9035.6018	47.00	-40.30	38.73	-49.83	-13.00	36.83	153	109	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1648.9324	70.96	-52.88	25.90	-51.28	-13.00	38.28	308	236	Vertical
2	2473.8237	59.67	-51.24	27.95	-58.88	-13.00	45.88	368	221	Vertical
3	3558.3779	52.78	-49.04	30.12	-61.40	-13.00	48.40	279	30	Vertical
4	5146.5073	50.16	-44.30	33.59	-55.81	-13.00	42.81	130	270	Vertical
5	7362.4181	48.79	-42.73	36.88	-52.32	-13.00	39.32	237	197	Vertical
6	9586.4293	46.13	-39.49	39.17	-49.45	-13.00	36.45	216	314	Vertical



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Test Band = LTE_5_ANT 13_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1664.2332	71.51	-52.81	25.87	-50.69	-13.00	37.69	191	168	Horizontal
2	2496.3248	58.87	-51.21	27.99	-59.61	-13.00	46.61	131	80	Horizontal
3	3778.4389	52.21	-48.50	30.50	-61.05	-13.00	48.05	266	335	Horizontal
4	5056.5028	50.65	-44.57	33.41	-55.77	-13.00	42.77	265	217	Horizontal
5	7334.9667	47.48	-43.16	36.96	-53.98	-13.00	40.98	179	134	Horizontal
6	9576.5288	46.46	-39.59	39.15	-49.24	-13.00	36.24	320	335	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1664.2332	72.74	-52.81	25.87	-49.46	-13.00	36.46	265	236	Vertical
2	2496.3248	57.66	-51.21	27.99	-60.82	-13.00	47.82	231	221	Vertical
3	3653.3327	52.64	-49.24	30.39	-61.47	-13.00	48.47	145	16	Vertical
4	5142.4571	50.27	-44.28	33.58	-55.69	-13.00	42.69	134	167	Vertical
5	7496.0748	49.05	-42.59	36.61	-52.19	-13.00	39.19	168	231	Vertical
6	9597.2299	46.63	-39.38	39.19	-48.82	-13.00	35.82	138	211	Vertical



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Test Band = LTE_5_ANT 13_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1679.084	71.64	-52.74	25.84	-50.52	-13.00	37.52	265	163	Horizontal
2	2518.8259	59.92	-51.09	28.11	-58.32	-13.00	45.32	112	75	Horizontal
3	3829.2915	51.70	-48.19	30.44	-61.31	-13.00	48.31	259	334	Horizontal
4	5069.1035	50.54	-44.42	33.44	-55.70	-13.00	42.70	277	149	Horizontal
5	7939.347	48.20	-42.47	37.48	-52.05	-13.00	39.05	327	32	Horizontal
6	9515.3258	46.69	-40.07	39.17	-49.47	-13.00	36.47	216	295	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1679.084	72.00	-52.74	25.84	-50.16	-13.00	37.16	129	231	Vertical
2	2518.8259	57.74	-51.09	28.11	-60.50	-13.00	47.50	243	222	Vertical
3	3322.1161	52.75	-49.72	30.26	-61.97	-13.00	48.97	384	138	Vertical
4	5103.7552	50.17	-44.06	33.51	-55.64	-13.00	42.64	193	153	Vertical
5	7364.6682	48.56	-42.72	36.87	-52.55	-13.00	39.55	136	128	Vertical
6	9077.4539	47.64	-40.43	38.70	-49.35	-13.00	36.35	131	158	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	VN	NT	-7.20	-0.008607	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-5.40	-0.006455	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-10.90	-0.013030	±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	-6.10	-0.007292	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-5.20	-0.006216	±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	20	-3.30	-0.003945	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-10.40	-0.012433	±2.5	PASS

---End of Attachment---



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