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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.18	17.23	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.15	17.20	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.05	17.10	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.20	16.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.20	17.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.35	17.40	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.25	17.30	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.48	16.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.34	17.39	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.08	17.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.08	17.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.25	16.30	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.39	16.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.60	16.65	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.45	16.50	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.22	15.27	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.59	16.64	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.80	16.85	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.44	16.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.44	15.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.81	16.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.04	16.09	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.46	16.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.39	15.44	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.17	15.22	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.35	15.40	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.63	15.68	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.35	14.40	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.44	15.49	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.75	15.80	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.74	15.79	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.21	14.26	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.31	15.36	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.60	15.65	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.42	15.47	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.19	14.24	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.37	17.42	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.32	17.37	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.19	17.24	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.27	16.32	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.35	17.40	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.37	17.42	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.14	17.19	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.09	16.14	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.18	17.23	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.36	17.41	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.39	17.44	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.39	16.44	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.50	16.55	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.75	16.80	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.65	16.70	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.30	15.35	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.65	16.70	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.71	16.76	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.44	16.49	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.18	15.23	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.46	16.51	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.51	16.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.58	16.63	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	22.11	15.16	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.53	15.58	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.50	15.55	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.20	15.25	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.39	14.44	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.40	15.45	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.38	15.43	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.32	15.37	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.32	14.37	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.39	15.44	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.44	15.49	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.37	15.42	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.17	14.22	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.33	17.38	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.10	17.15	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.03	17.08	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.23	16.28	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.26	17.31	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.13	17.18	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.29	17.34	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.25	16.30	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.35	17.40	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.19	17.24	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.29	17.34	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.40	16.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.40	16.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.52	16.57	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.61	16.66	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.29	15.34	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.51	16.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.85	16.90	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.76	16.81	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	22.24	15.29	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.67	16.72	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.90	16.95	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.79	16.84	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.23	15.28	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.44	15.49	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.48	15.53	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.42	15.47	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.36	14.41	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.63	15.68	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.66	15.71	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.37	15.42	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.22	14.27	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.52	15.57	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.87	15.92	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.51	15.56	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.30	14.35	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.24	17.29	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.18	17.23	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.29	17.34	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.19	16.24	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.22	17.27	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.39	17.44	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.19	17.24	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.17	16.22	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.43	17.48	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.35	17.40	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.27	17.32	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.18	16.23	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.41	16.46	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.48	16.53	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.62	16.67	38.45	PASS



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Band5	10MHz	16QAM	20525	1RB#0	23.49	16.54	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.70	16.75	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.39	16.44	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.26	15.31	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.75	16.80	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.71	16.76	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.52	16.57	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.46	15.51	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.30	15.35	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.54	15.59	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.57	15.62	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.42	14.47	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.55	15.60	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.55	15.60	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.44	15.49	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.31	14.36	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.42	15.47	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.49	15.54	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.42	15.47	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.50	14.55	38.45	PASS



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t (86-512) 62992980 sgs.china@sgs.com



Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.16	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.98	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.30	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.36	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.36	13	PASS



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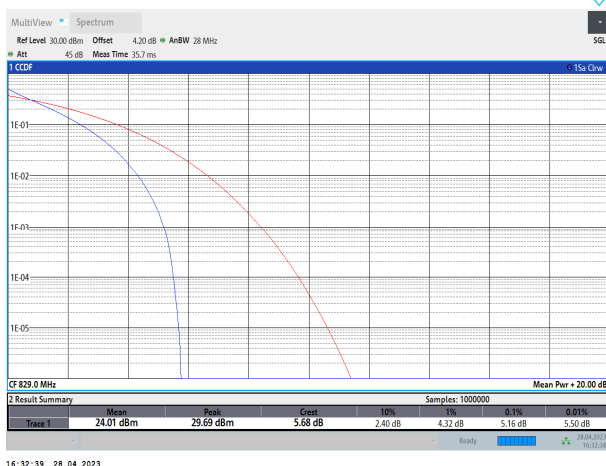
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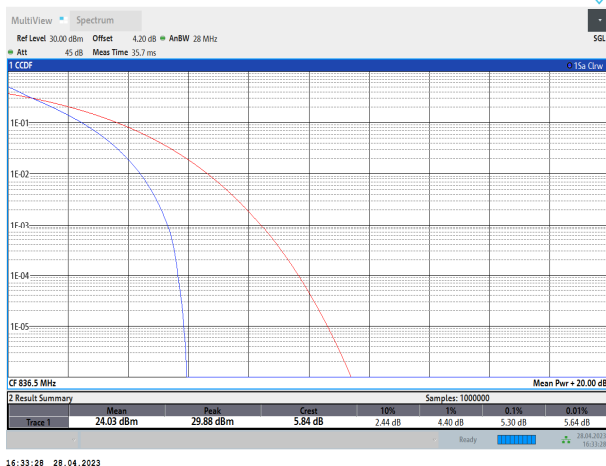
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Test Graphs

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



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



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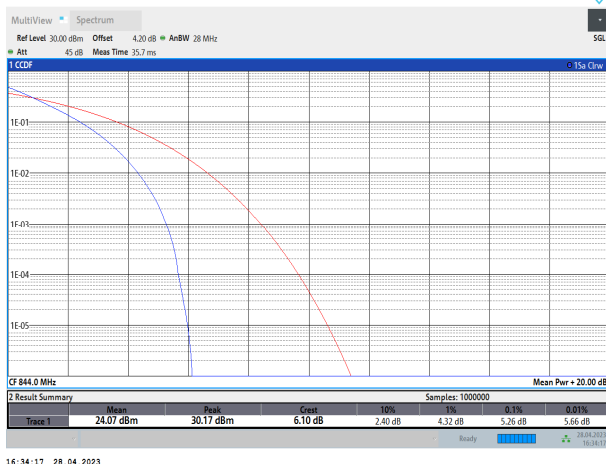
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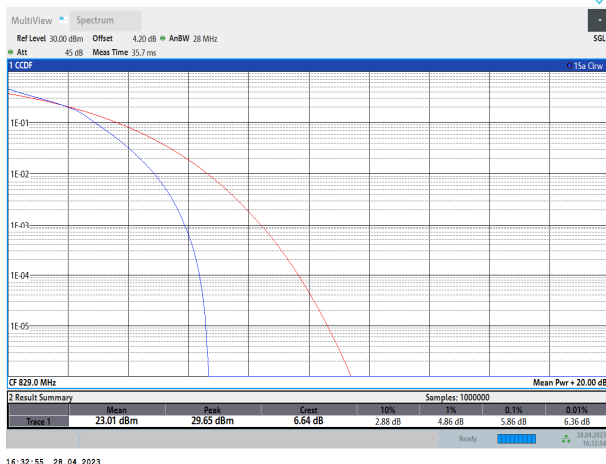
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Band5-10MHz-QPSK-20600-50RB#0



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



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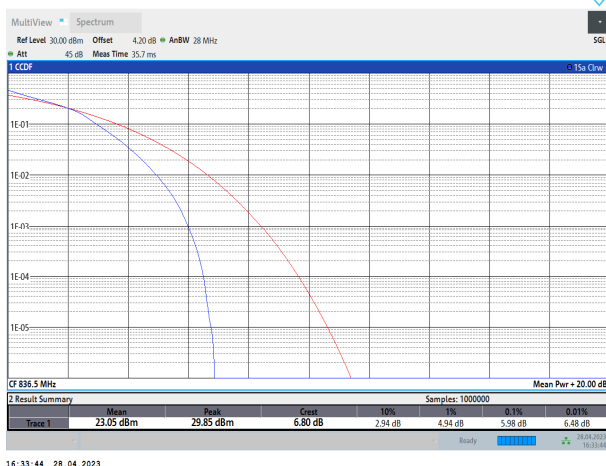
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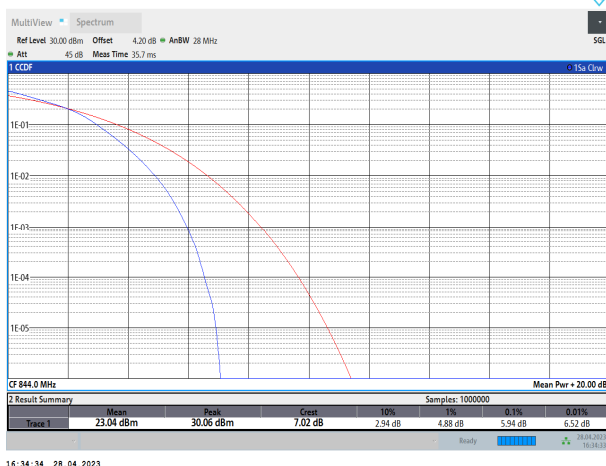
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Band5-10MHz-16QAM-20525-50RB#0



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



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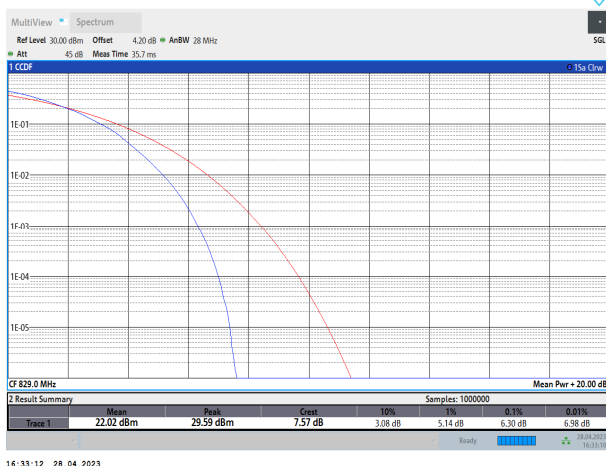
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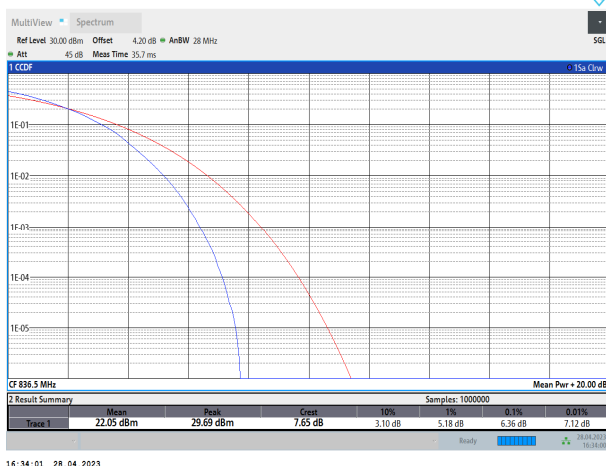
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Band5-10MHz-64QAM-20450-50RB#0



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



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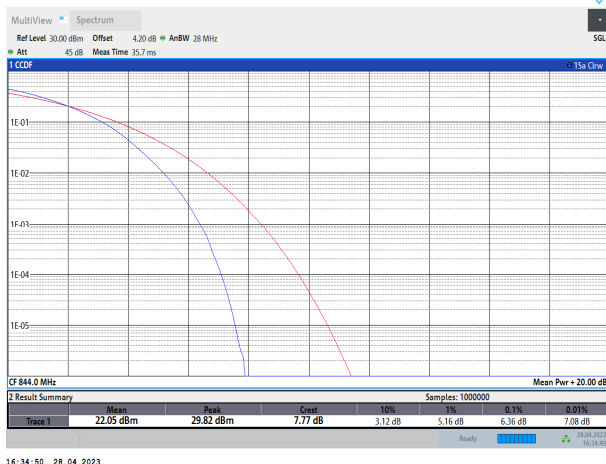
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Band5-10MHz-64QAM-20600-50RB#0



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Modulation Characteristics

Test Result

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



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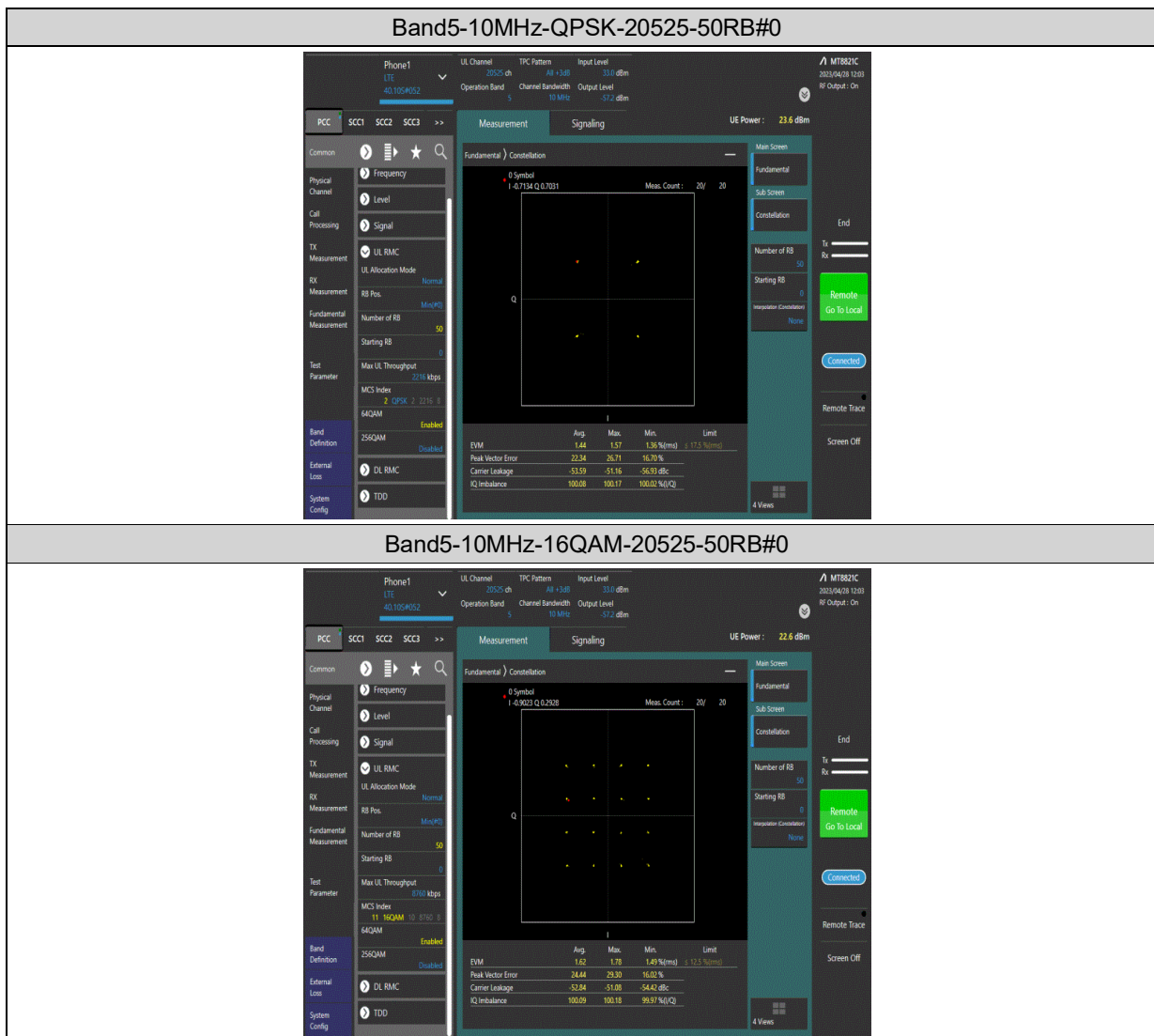
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Test Graphs



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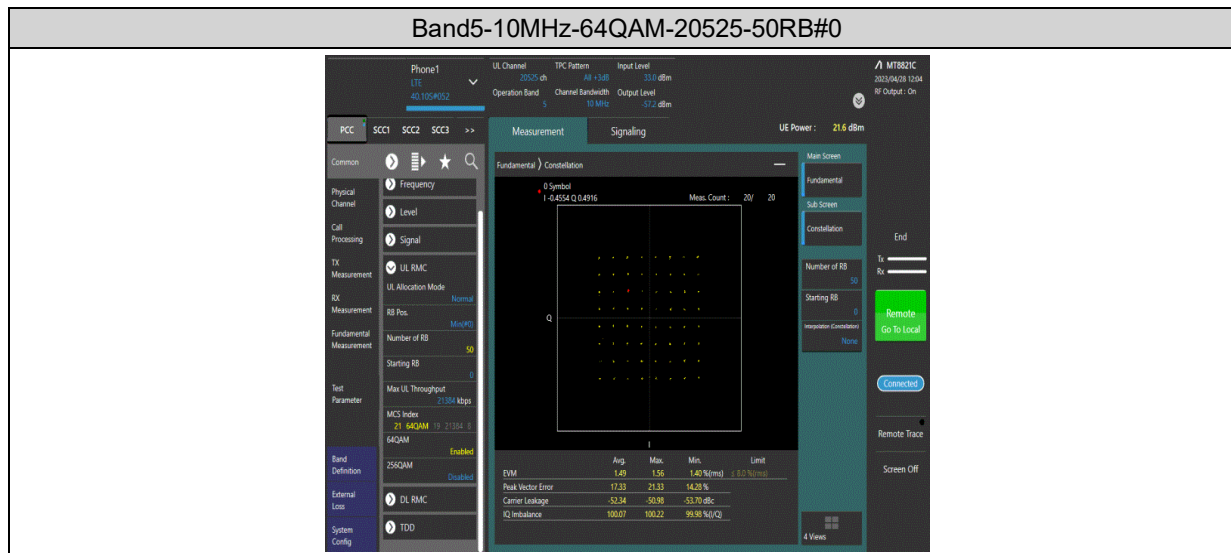
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Band5-10MHz-64QAM-20525-50RB#0



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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	1.096	1.34	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.093	1.32	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.081	1.33	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.105	1.38	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.111	1.37	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.107	1.36	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.33	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.095	1.30	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.105	1.36	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.692	3.04	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	3.03	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.704	3.02	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.703	2.95	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.702	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	3.01	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.702	2.99	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.700	3.05	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.704	3.02	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.482	5.01	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.471	5.01	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.478	4.98	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.96	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.465	4.96	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.474	4.98	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.475	4.85	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.472	4.96	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.463	4.97	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.937	9.92	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.967	9.88	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.941	9.62	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.953	9.62	PASS



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Band5	10MHz	16QAM	20525	50RB#0	8.940	9.80	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.935	9.76	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.958	9.70	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.942	9.84	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.960	9.70	PASS



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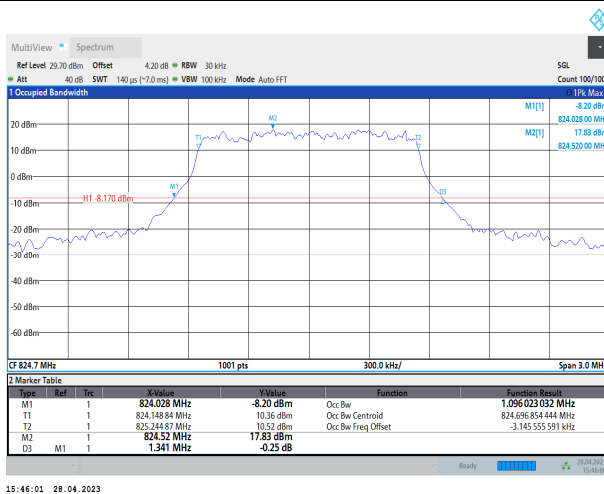
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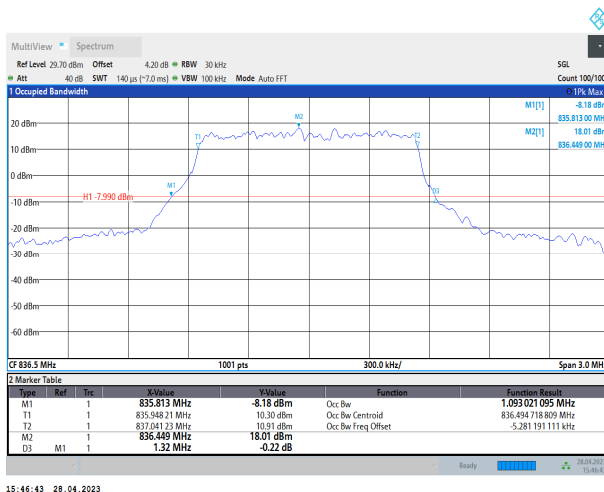
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Test Graphs

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



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

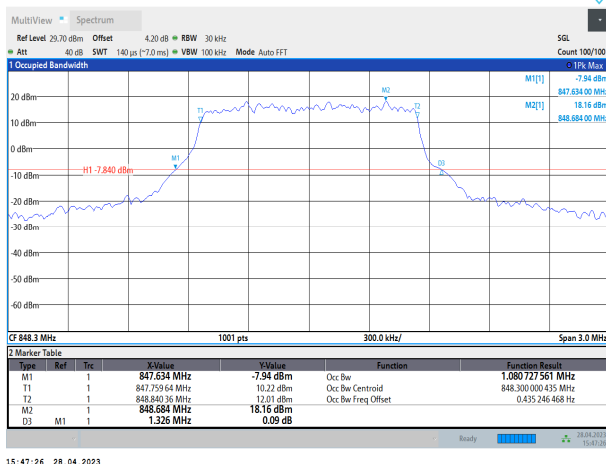


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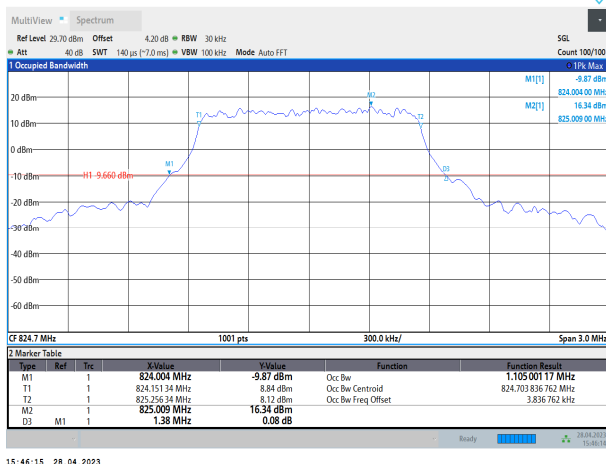
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Band5-1.4MHz-QPSK-20643-6RB#0



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

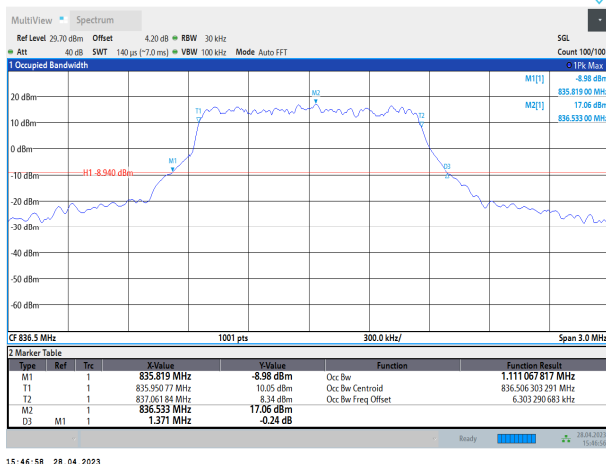


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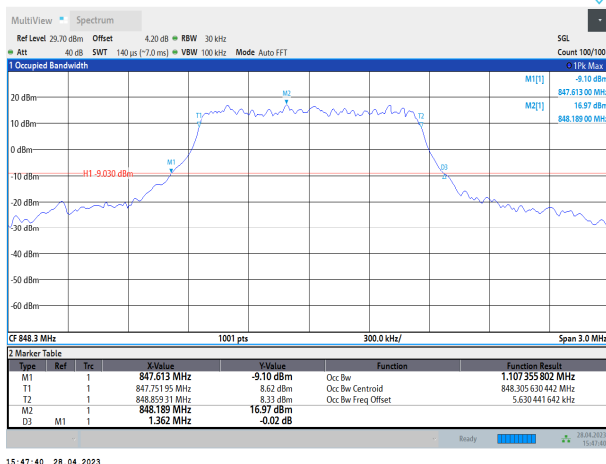
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Band5-1.4MHz-16QAM-20525-6RB#0



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



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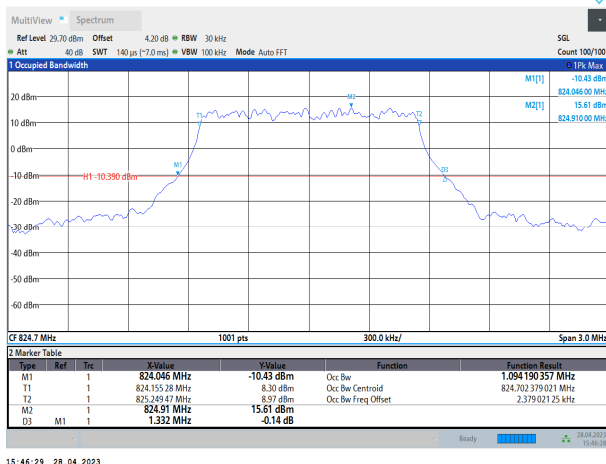
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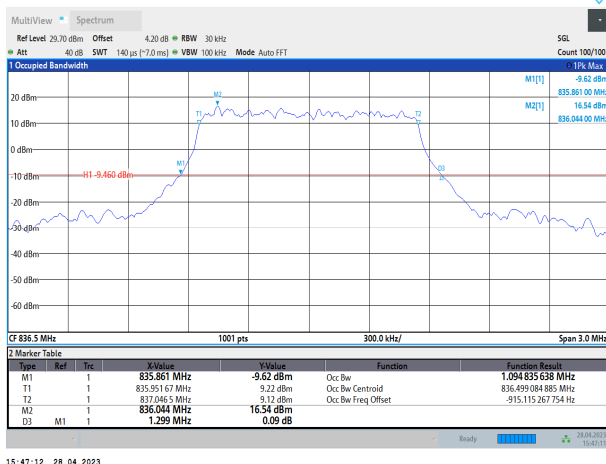
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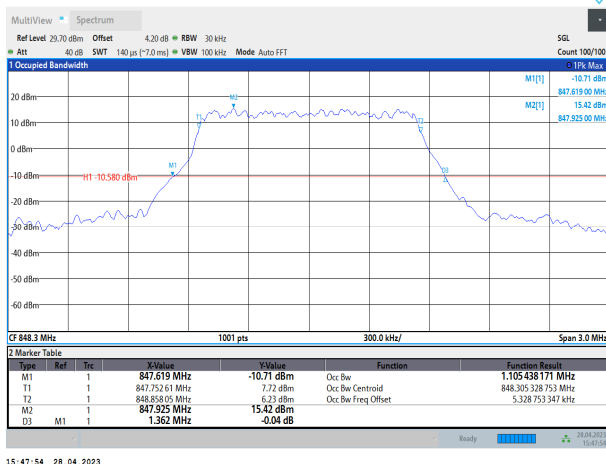


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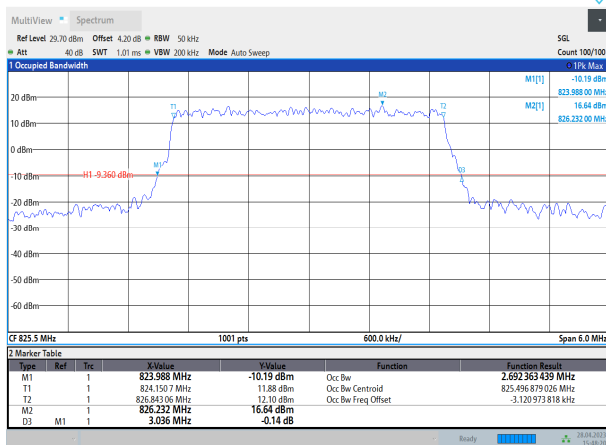
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Band5-3MHz-QPSK-20415-15RB#0



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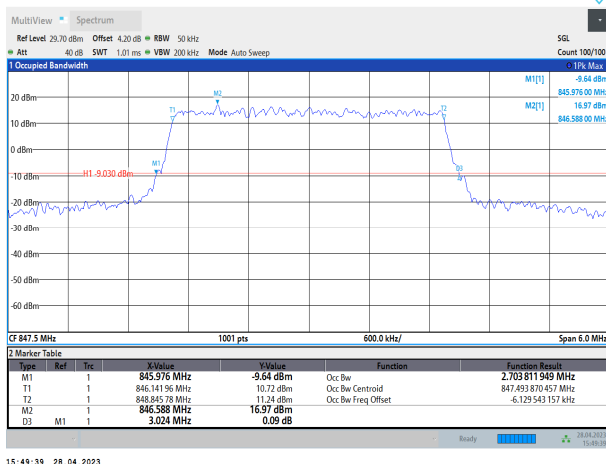
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Band5-3MHz-QPSK-20635-15RB#0

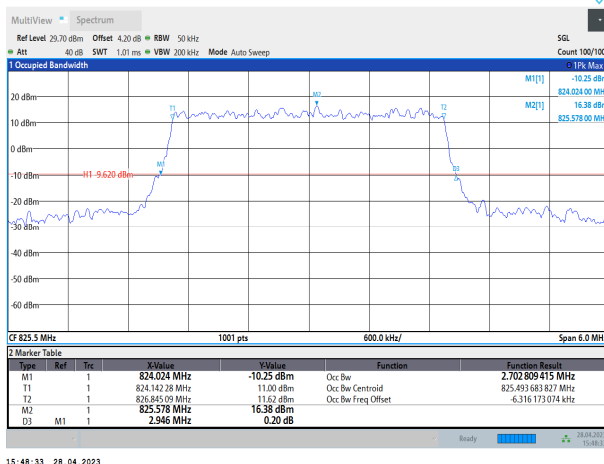


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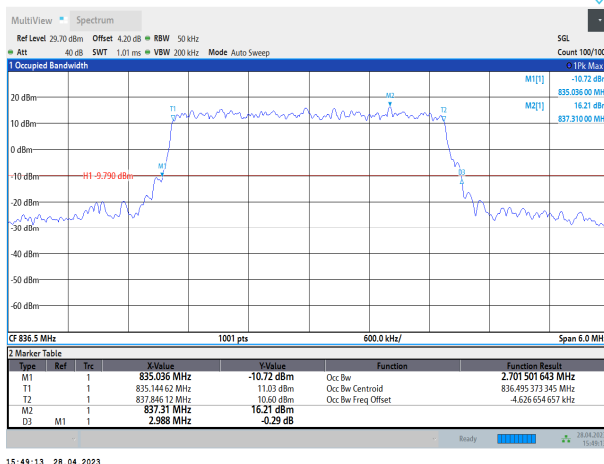
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Band5-3MHz-16QAM-20525-15RB#0



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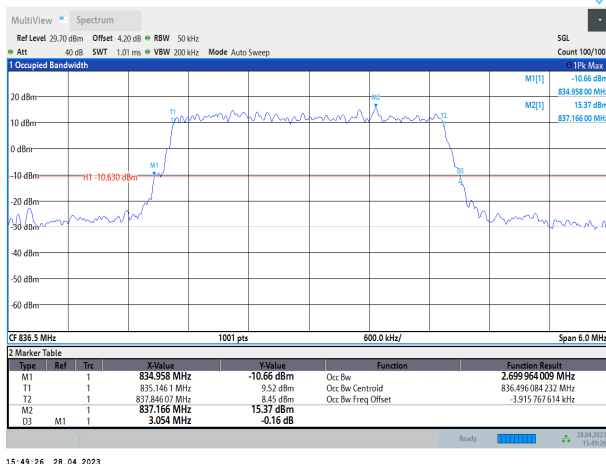
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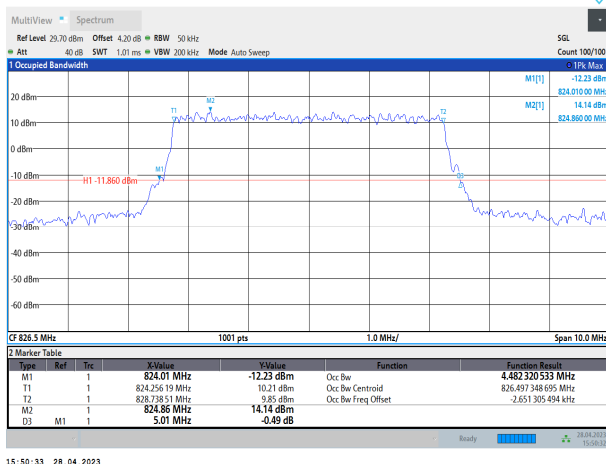
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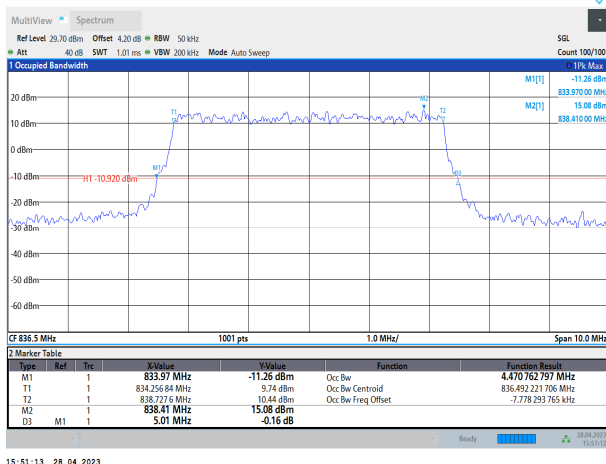
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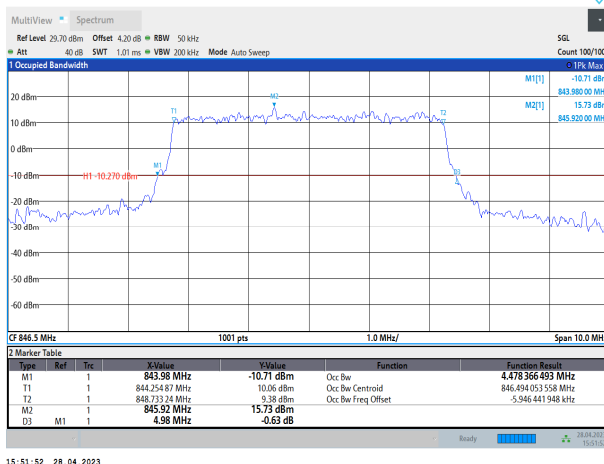
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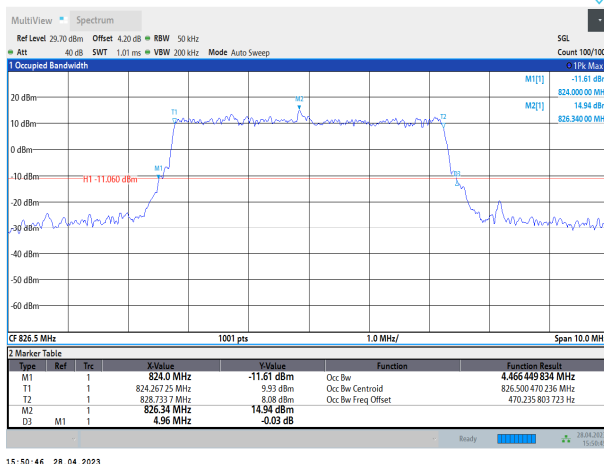
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Band5-5MHz-QPSK-20625-25RB#0



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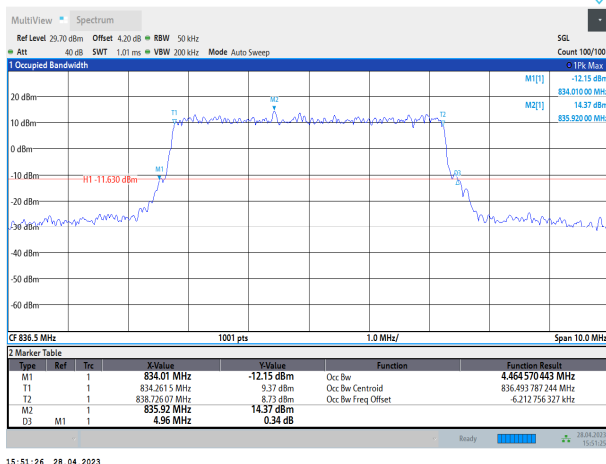


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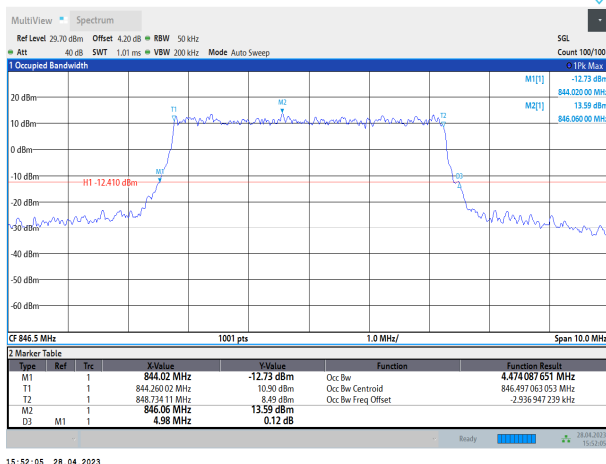
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Band5-5MHz-16QAM-20525-25RB#0



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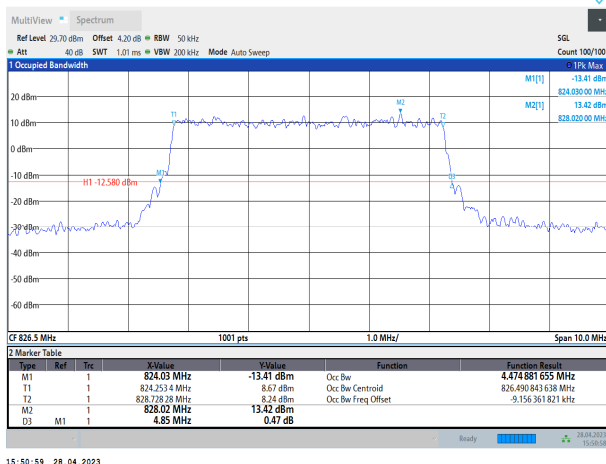
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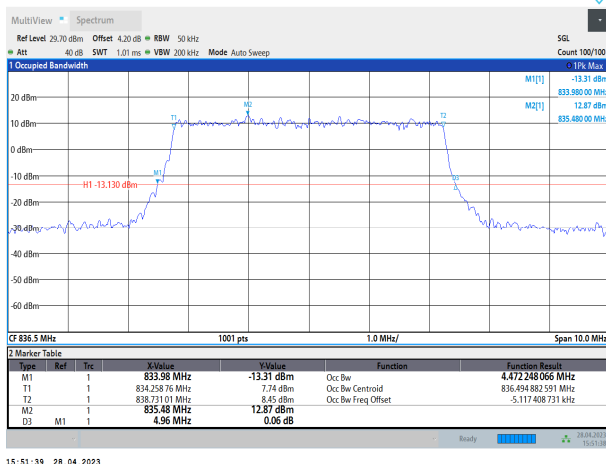
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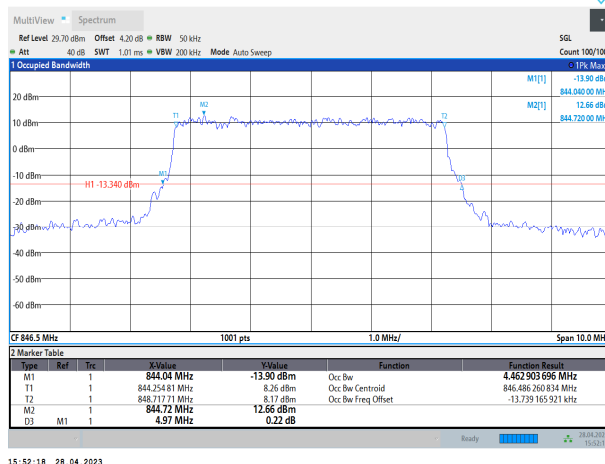


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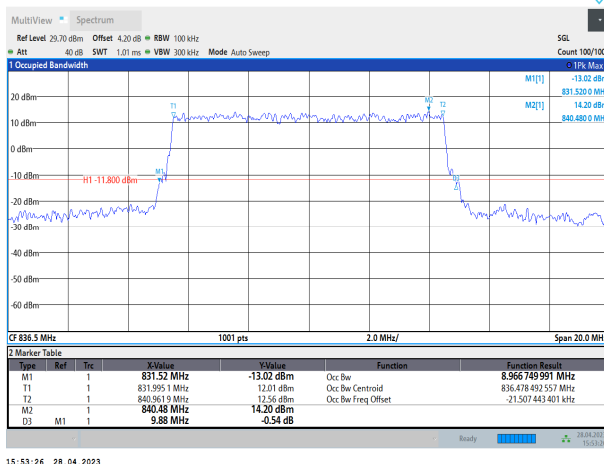
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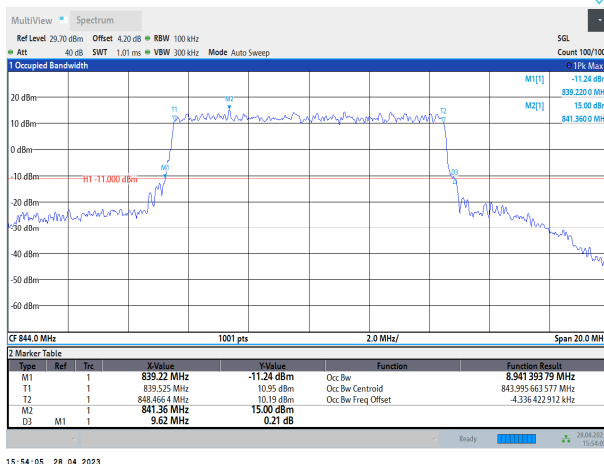
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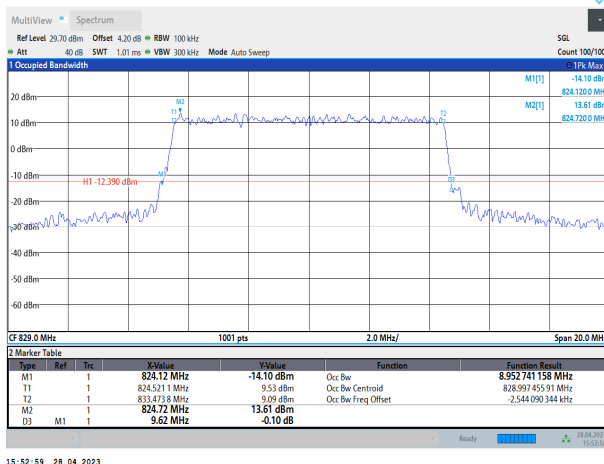


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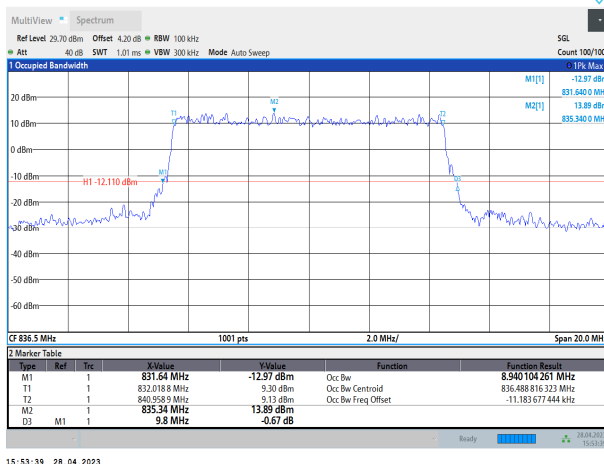
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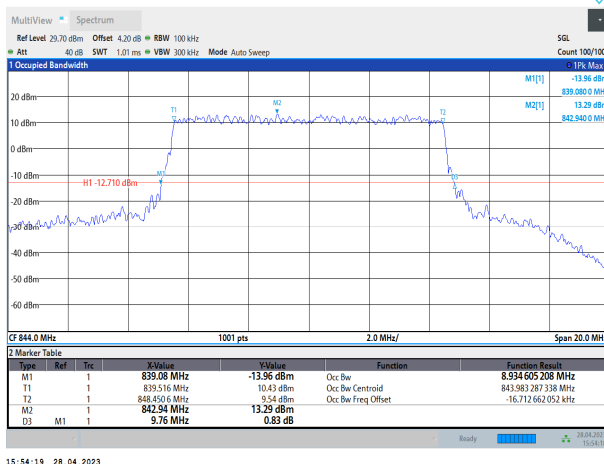


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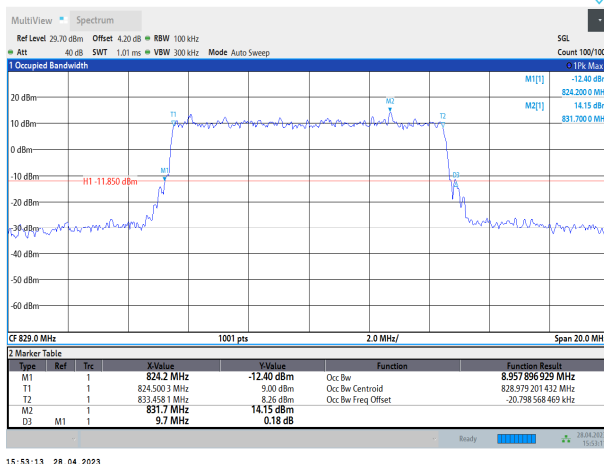
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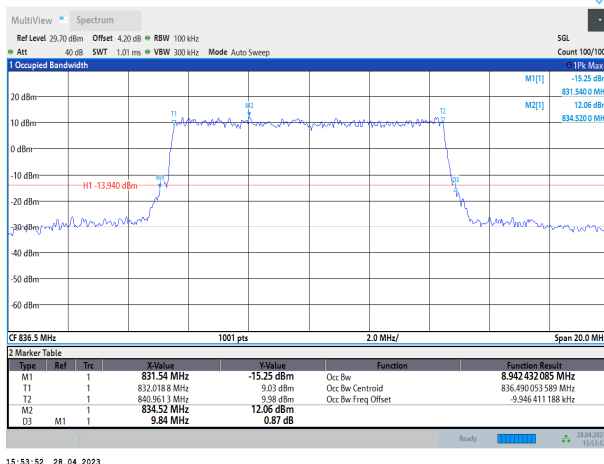
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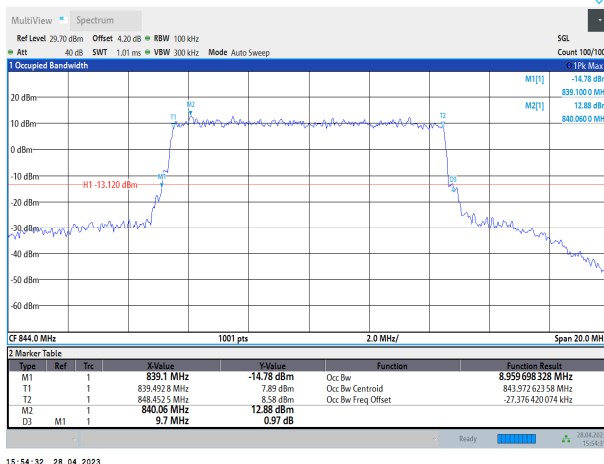
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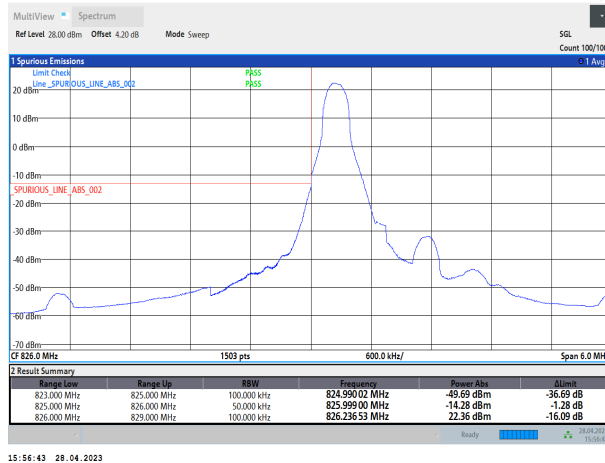
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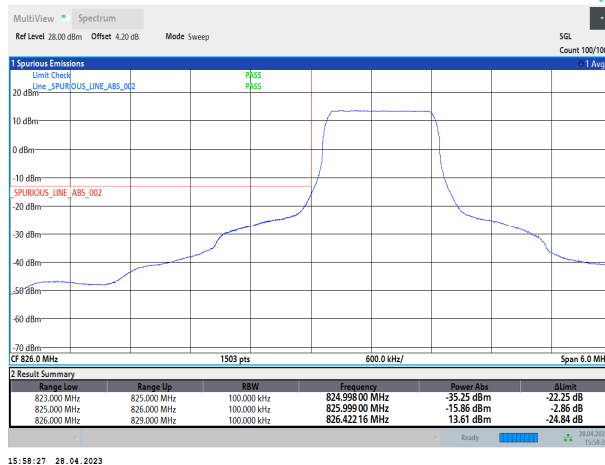
Band Edge

Test Graphs

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



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



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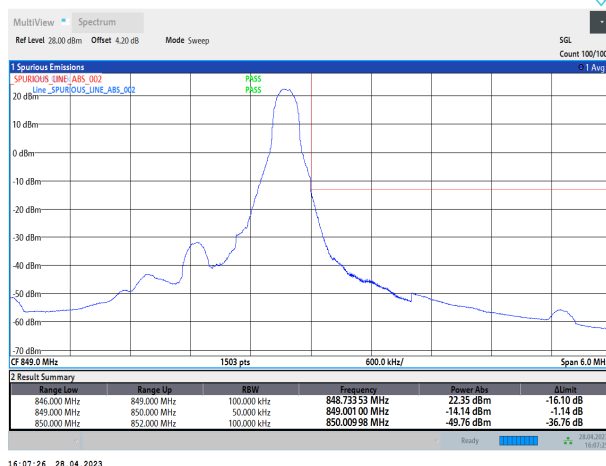
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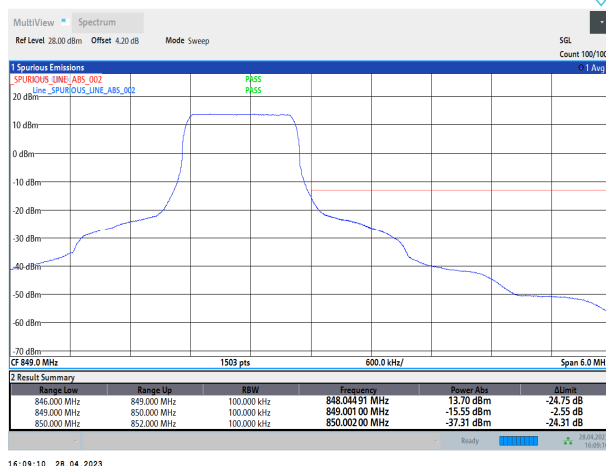
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Band5-1.4MHz-QPSK-20643-1RB#5



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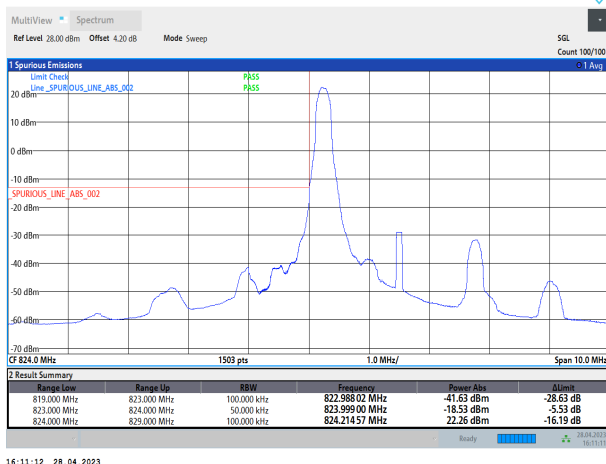


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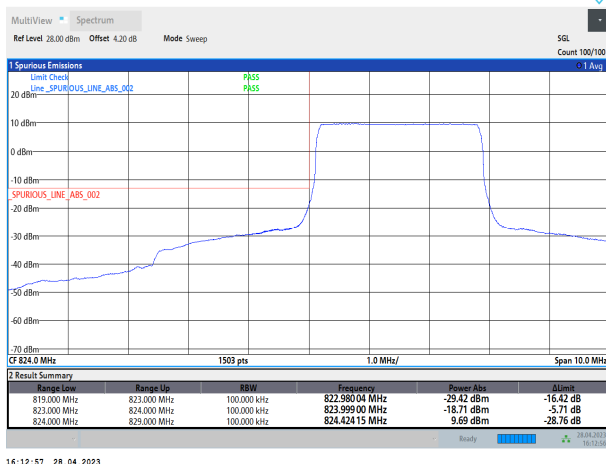
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Band5-3MHz-QPSK-20415-1RB#0



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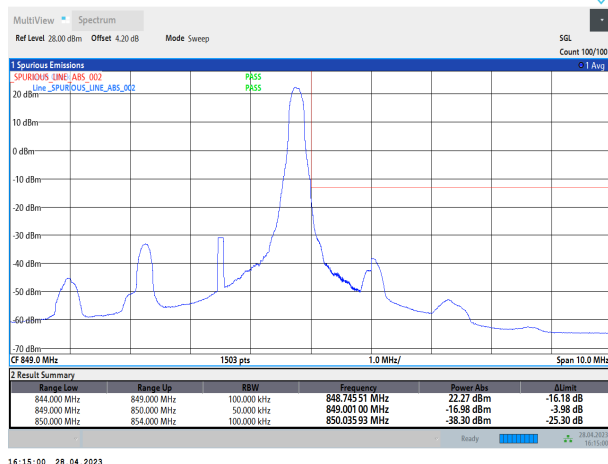
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Band5-3MHz-QPSK-20635-1RB#14



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



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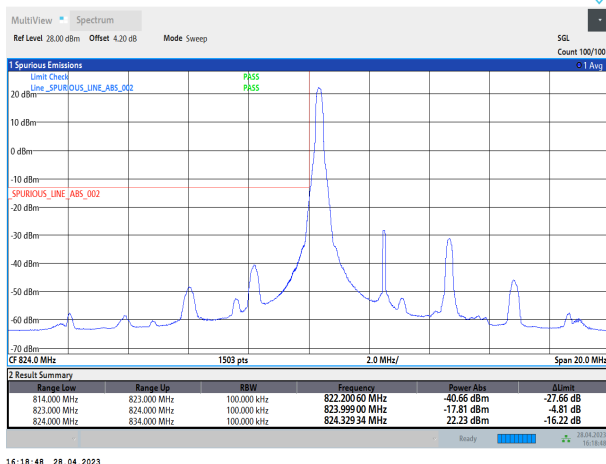
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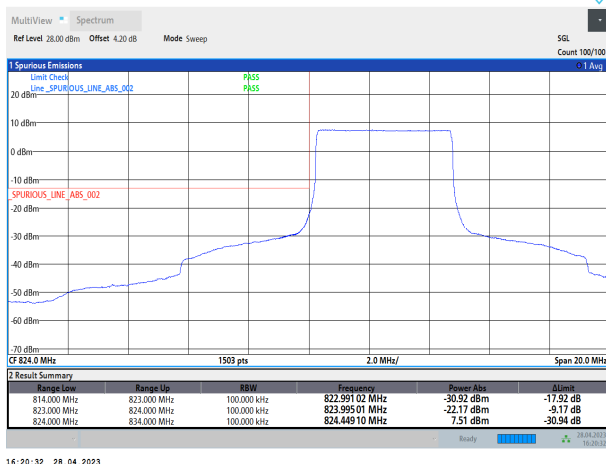
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Band5-5MHz-QPSK-20425-1RB#0



Band5-5MHz-QPSK-20425-25RB#0



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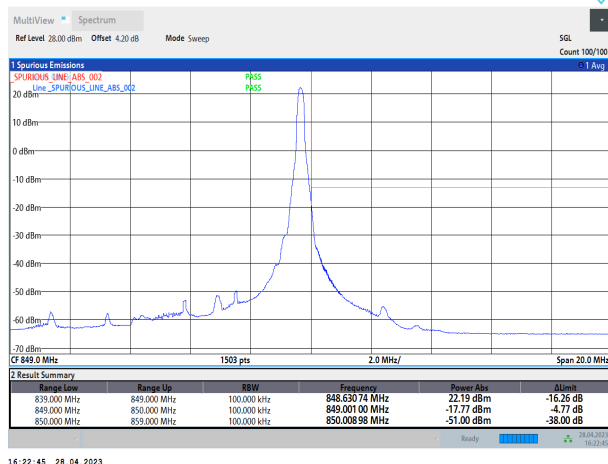
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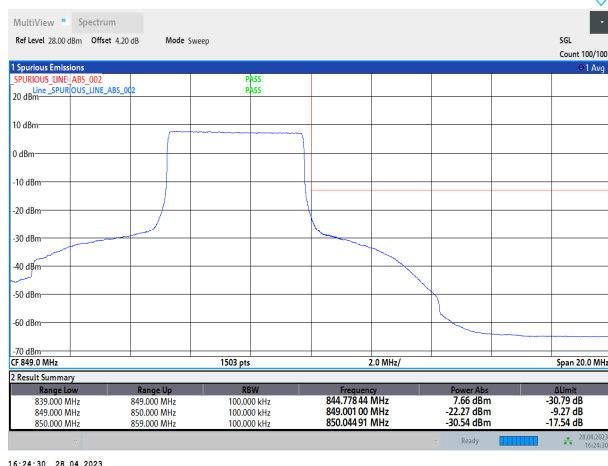
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Band5-5MHz-QPSK-20625-25RB#0

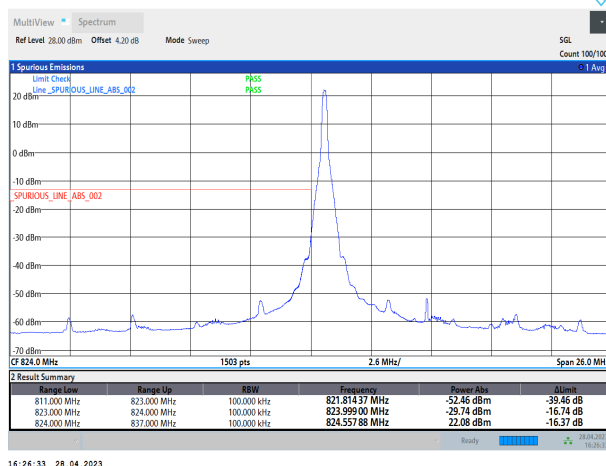


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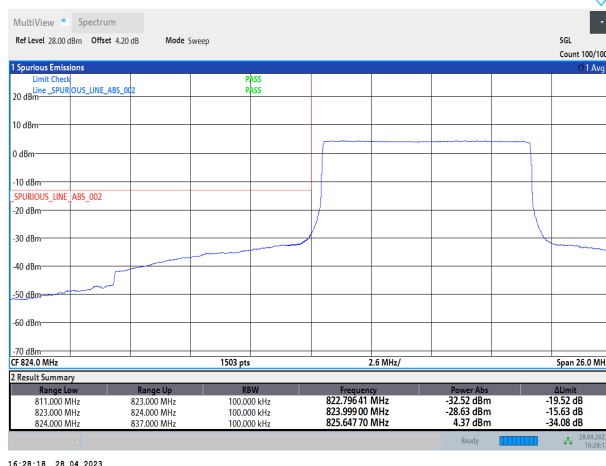
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Band5-10MHz-QPSK-20450-1RB#0



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

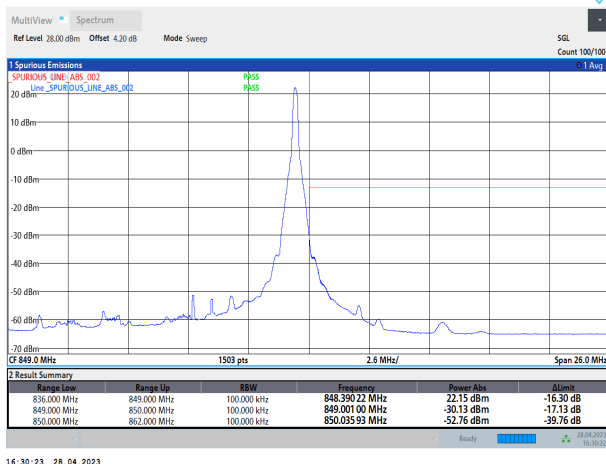


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Band5-10MHz-QPSK-20600-1RB#49



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



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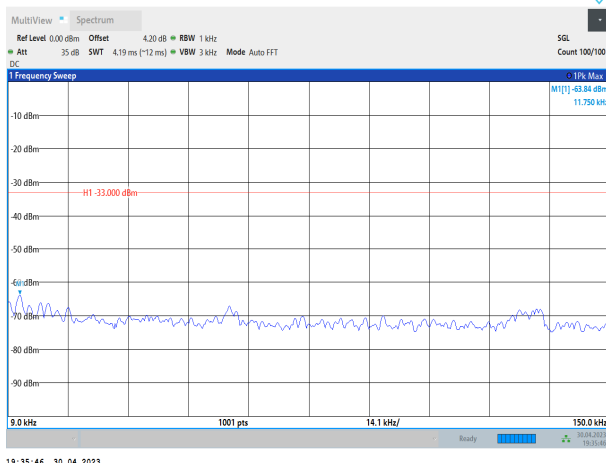
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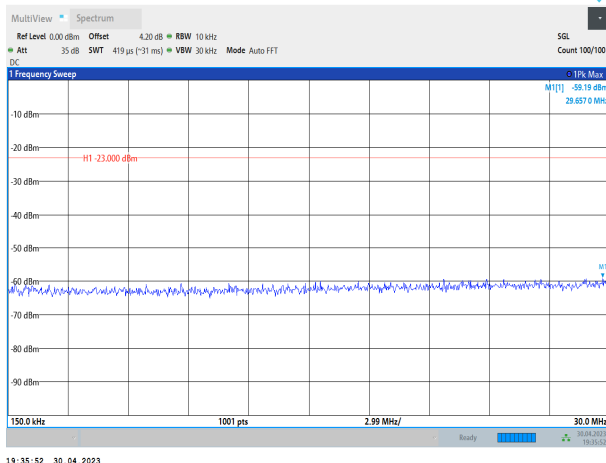
Conducted Spurious Emission

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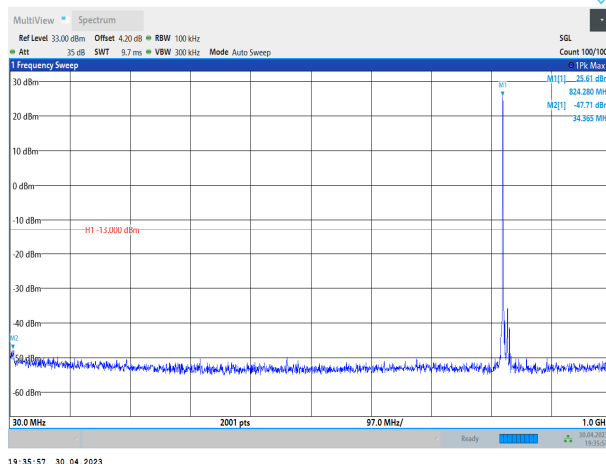
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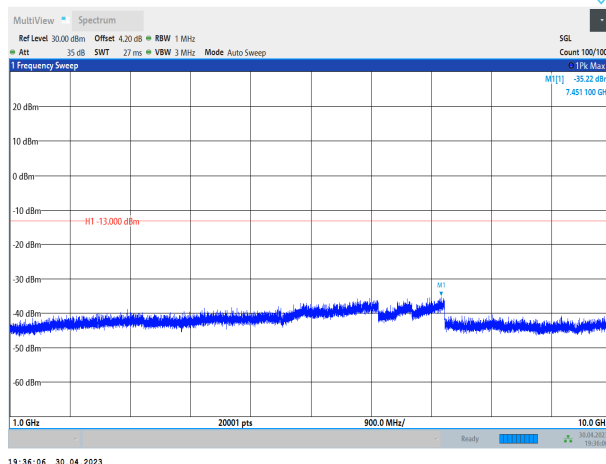
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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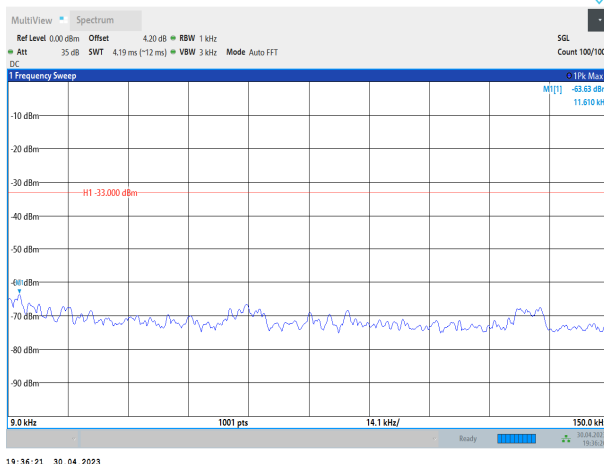
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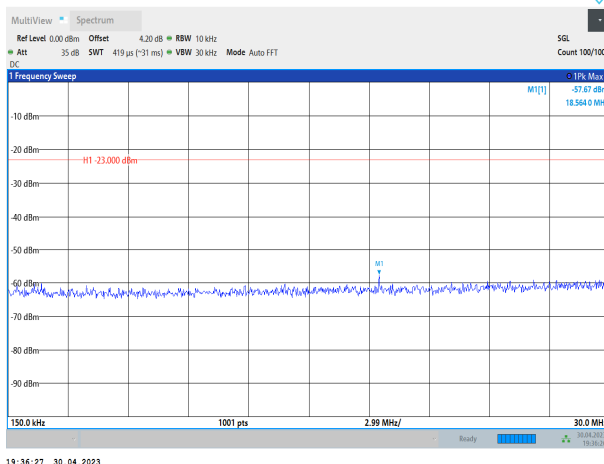
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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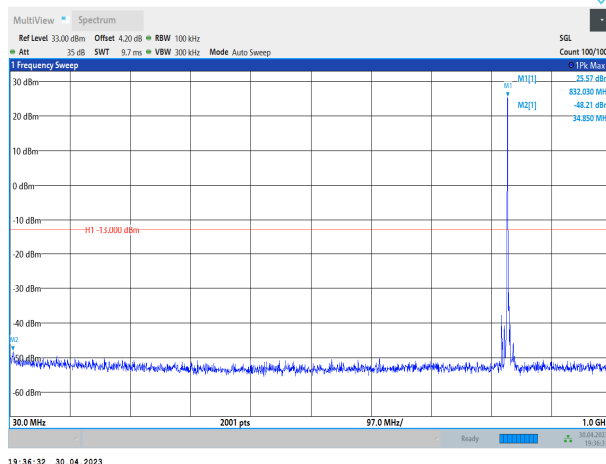
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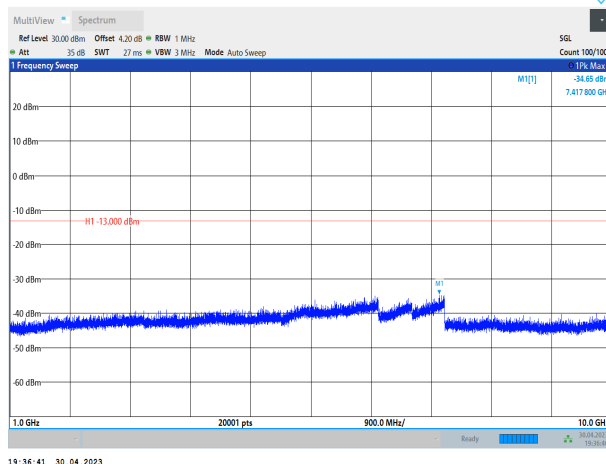
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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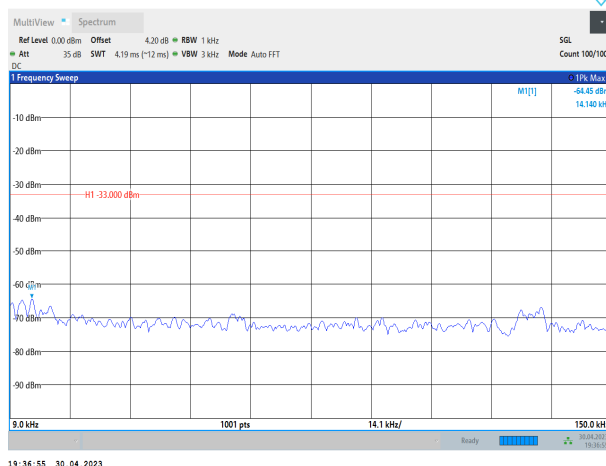


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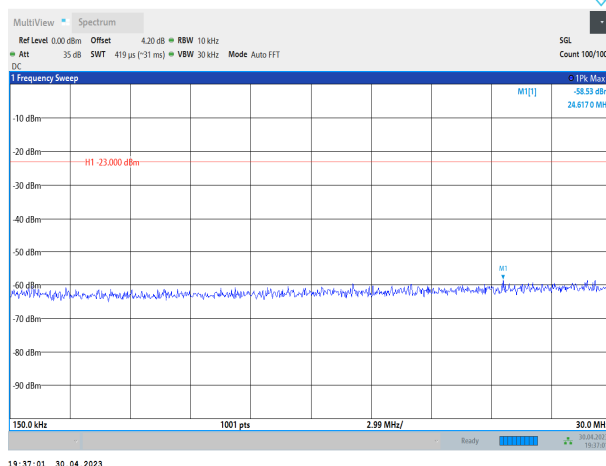
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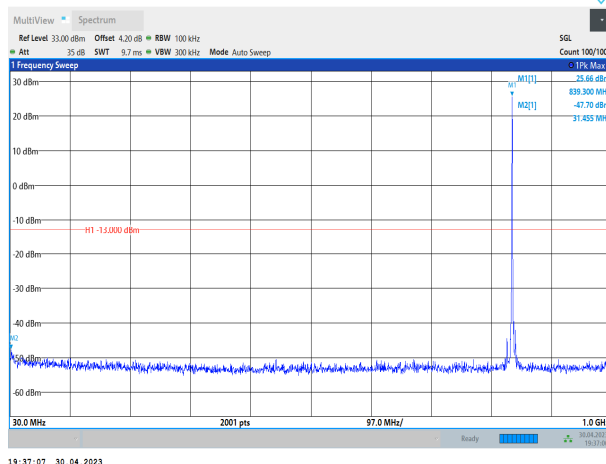
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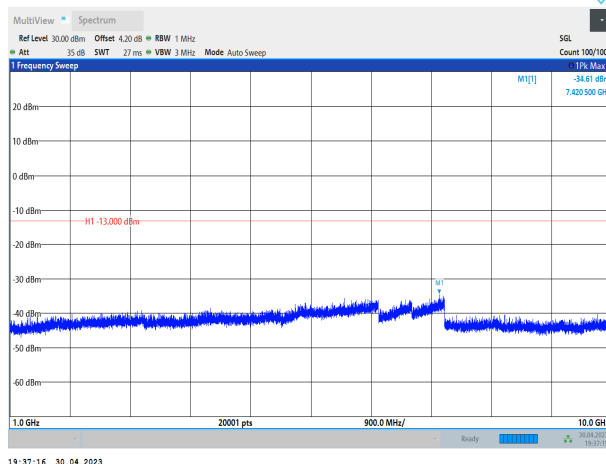
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Field Strength of Spurious Radiation**Test Band = LTE Band5_10MHz_ TM1****Test Channel = Low ANT0**

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	-48.22	25.37	-74.30	-13.00	61.30	145	214	Horizontal
2	2473.7700	42.86	-47.32	27.69	-72.03	-13.00	59.03	152	294	Horizontal
3	3298.3600	42.31	-46.68	29.56	-70.07	-13.00	57.07	136	122	Horizontal
4	4122.9500	41.03	-45.91	30.99	-69.16	-13.00	56.16	256	83	Horizontal
5	4947.5400	41.83	-45.69	32.73	-66.39	-13.00	53.39	192	148	Horizontal
6	5772.1300	39.05	-44.64	33.65	-67.20	-13.00	54.20	175	268	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	44.14	-48.22	25.37	-73.97	-13.00	60.97	142	360	Vertical
2	2473.7700	42.75	-47.32	27.69	-72.14	-13.00	59.14	158	38	Vertical
3	3298.3600	42.68	-46.68	29.56	-69.70	-13.00	56.70	175	171	Vertical
4	4122.9500	40.79	-45.91	30.99	-69.40	-13.00	56.40	165	52	Vertical
5	4947.5400	41.05	-45.69	32.73	-67.17	-13.00	54.17	192	66	Vertical
6	5772.1300	40.03	-44.64	33.65	-66.22	-13.00	53.22	136	360	Vertical



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Test Band = LTE Band5_10MHz_TM1
Test Channel = Mid ANT0

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	43.34	-48.20	25.38	-74.75	-13.00	61.75	248	98	Horizontal
2	2496.2700	43.46	-47.28	27.76	-71.32	-13.00	58.32	174	164	Horizontal
3	3328.3600	42.75	-46.64	29.52	-69.63	-13.00	56.63	158	20	Horizontal
4	4160.4500	41.18	-45.94	31.04	-68.98	-13.00	55.98	169	84	Horizontal
5	4992.5400	40.94	-45.79	32.86	-67.25	-13.00	54.25	142	150	Horizontal
6	5824.6300	39.67	-44.74	33.80	-66.53	-13.00	53.53	153	242	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	43.41	-48.20	25.38	-74.68	-13.00	61.68	214	263	Vertical
2	2496.2700	42.93	-47.28	27.76	-71.85	-13.00	58.85	174	237	Vertical
3	3328.3600	42.84	-46.64	29.52	-69.54	-13.00	56.54	158	80	Vertical
4	4160.4500	40.69	-45.94	31.04	-69.47	-13.00	56.47	196	360	Vertical
5	4992.5400	40.98	-45.79	32.86	-67.21	-13.00	54.21	142	237	Vertical
6	5824.6300	39.51	-44.74	33.80	-66.69	-13.00	53.69	156	277	Vertical



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Test Band = LTE Band5_10MHz_TM1
Test Channel = High ANT0

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	43.88	-48.18	25.38	-74.18	-13.00	61.18	148	10	Horizontal
2	2518.7700	43.40	-47.21	27.83	-71.23	-13.00	58.23	175	323	Horizontal
3	3358.3600	42.71	-46.60	29.48	-69.67	-13.00	56.67	142	71	Horizontal
4	4197.9500	40.55	-45.96	31.10	-69.57	-13.00	56.57	126	203	Horizontal
5	5037.5400	40.79	-45.65	32.90	-67.22	-13.00	54.22	195	178	Horizontal
6	5887.1300	40.15	-44.93	33.92	-66.12	-13.00	53.12	182	310	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	43.70	-48.18	25.38	-74.36	-13.00	61.36	147	3	Vertical
2	2518.7700	43.56	-47.21	27.83	-71.07	-13.00	58.07	126	63	Vertical
3	3358.3600	42.36	-46.60	29.48	-70.02	-13.00	57.02	135	12	Vertical
4	4197.9500	40.69	-45.96	31.10	-69.43	-13.00	56.43	145	117	Vertical
5	5037.5400	41.19	-45.65	32.90	-66.82	-13.00	53.82	186	359	Vertical
6	5887.1300	40.40	-44.93	33.92	-65.87	-13.00	52.87	129	210	Vertical



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Test Band = LTE Band5_10MHz_TM1**Test Channel = Low ANT4****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	44.44	-48.22	25.37	-73.67	-13.00	60.67	214	135	Horizontal
2	2473.7700	42.26	-47.32	27.69	-72.63	-13.00	59.63	158	42	Horizontal
3	3298.3600	42.49	-46.68	29.56	-69.89	-13.00	56.89	175	135	Horizontal
4	4122.9500	41.08	-45.91	30.99	-69.11	-13.00	56.11	142	294	Horizontal
5	4947.5400	41.30	-45.69	32.73	-66.92	-13.00	53.92	136	268	Horizontal
6	5772.1300	39.26	-44.64	33.65	-66.99	-13.00	53.99	216	214	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	44.40	-48.22	25.37	-73.71	-13.00	60.71	211	91	Vertical
2	2473.7700	42.49	-47.32	27.69	-72.40	-13.00	59.40	148	342	Vertical
3	3298.3600	42.21	-46.68	29.56	-70.17	-13.00	57.17	175	331	Vertical
4	4122.9500	41.28	-45.91	30.99	-68.91	-13.00	55.91	142	132	Vertical
5	4947.5400	41.50	-45.69	32.73	-66.72	-13.00	53.72	126	359	Vertical
6	5772.1300	39.18	-44.64	33.65	-67.07	-13.00	54.07	291	359	Vertical



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Test Band = LTE Band5_10MHz_TM1**Test Channel = Mid ANT4****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	43.47	-48.20	25.38	-74.62	-13.00	61.62	248	334	Horizontal
2	2496.2700	43.34	-47.28	27.76	-71.44	-13.00	58.44	122	148	Horizontal
3	3328.3600	43.25	-46.64	29.52	-69.13	-13.00	56.13	221	255	Horizontal
4	4160.4500	40.83	-45.94	31.04	-69.33	-13.00	56.33	120	356	Horizontal
5	4992.5400	40.84	-45.79	32.86	-67.35	-13.00	54.35	165	200	Horizontal
6	5824.6300	38.85	-44.74	33.80	-67.35	-13.00	54.35	192	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	43.02	-48.20	25.38	-75.07	-13.00	62.07	174	117	Vertical
2	2496.2700	43.35	-47.28	27.76	-71.43	-13.00	58.43	158	251	Vertical
3	3328.3600	42.47	-46.64	29.52	-69.91	-13.00	56.91	146	356	Vertical
4	4160.4500	41.07	-45.94	31.04	-69.09	-13.00	56.09	153	3	Vertical
5	4992.5400	41.22	-45.79	32.86	-66.97	-13.00	53.97	291	237	Vertical
6	5824.6300	39.20	-44.74	33.80	-67.00	-13.00	54.00	172	237	Vertical



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Test Band = LTE Band5_10MHz_TM1**Test Channel = High ANT4****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	43.24	-48.18	25.38	-74.82	-13.00	61.82	254	268	Horizontal
2	2518.7700	43.21	-47.21	27.83	-71.42	-13.00	58.42	142	123	Horizontal
3	3358.3600	42.17	-46.60	29.48	-70.21	-13.00	57.21	156	148	Horizontal
4	4197.9500	40.69	-45.96	31.10	-69.43	-13.00	56.43	136	4	Horizontal
5	5037.5400	41.22	-45.65	32.90	-66.79	-13.00	53.79	129	4	Horizontal
6	5887.1300	40.18	-44.93	33.92	-66.09	-13.00	53.09	185	123	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	43.73	-48.18	25.38	-74.33	-13.00	61.33	217	78	Vertical
2	2518.7700	42.96	-47.21	27.83	-71.67	-13.00	58.67	184	263	Vertical
3	3358.3600	42.18	-46.60	29.48	-70.20	-13.00	57.20	175	78	Vertical
4	4197.9500	40.89	-45.96	31.10	-69.23	-13.00	56.23	146	360	Vertical
5	5037.5400	40.77	-45.65	32.90	-67.24	-13.00	54.24	129	3	Vertical
6	5887.1300	40.53	-44.93	33.92	-65.74	-13.00	52.74	215	289	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.70	-0.000837	±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	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.10	0.001315	±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	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS

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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com