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Appendix B.5

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	23.37	16.72	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.51	16.86	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.30	16.65	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.33	15.68	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.43	16.78	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.42	16.77	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.28	16.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.34	15.69	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.24	16.59	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.40	16.75	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.30	16.65	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.42	15.77	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.69	16.04	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.74	16.09	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.81	16.16	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.39	14.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.73	16.08	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.57	15.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.59	15.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.33	14.68	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.63	15.98	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.64	15.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.68	16.03	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.46	14.81	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.62	14.97	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.63	14.98	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.49	14.84	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	20.36	13.71	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.60	14.95	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.60	14.95	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.59	14.94	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.40	13.75	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.69	14.04	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.64	14.99	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.62	14.97	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.39	13.74	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.39	16.74	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.52	16.87	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.43	16.78	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.41	15.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.41	16.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.46	16.81	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.43	16.78	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.43	15.78	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.33	16.68	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.52	16.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.35	16.70	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.51	15.86	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.82	16.17	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.66	16.01	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.92	16.27	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.36	14.71	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.87	16.22	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.88	16.23	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.76	16.11	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.41	14.76	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.78	16.13	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.94	16.29	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.96	16.31	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	21.54	14.89	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.69	15.04	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.62	14.97	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.53	14.88	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.44	13.79	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.58	14.93	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.72	15.07	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.69	15.04	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.46	13.81	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.76	15.11	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.53	14.88	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.54	14.89	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.51	13.86	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.39	16.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.50	16.85	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.51	16.86	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.41	15.76	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.47	16.82	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.08	16.43	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.49	16.84	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.46	15.81	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.39	16.74	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.37	16.72	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.40	16.75	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.38	15.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.91	16.26	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.55	15.90	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.61	15.96	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.50	14.85	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.88	16.23	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.66	16.01	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.77	16.12	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	21.46	14.81	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.86	16.21	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.06	16.41	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.73	16.08	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.33	14.68	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.65	15.00	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.53	14.88	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.49	14.84	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.44	13.79	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.68	15.03	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.54	14.89	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.70	15.05	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.48	13.83	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.58	14.93	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.73	15.08	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.56	14.91	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.47	13.82	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.37	16.72	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.38	16.73	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.35	16.70	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.47	15.82	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.27	16.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.44	16.79	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.38	16.73	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.49	15.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.39	16.74	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.34	16.69	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.33	16.68	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.49	15.84	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.68	16.03	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.58	15.93	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.68	16.03	38.45	PASS



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Band5	10MHz	16QAM	20525	1RB#0	22.88	16.23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.71	16.06	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.83	16.18	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.47	14.82	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.76	16.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.71	16.06	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.77	16.12	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.50	14.85	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.75	15.10	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.48	14.83	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.61	14.96	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.59	13.94	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.74	15.09	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.52	14.87	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.59	14.94	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.59	13.94	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.47	14.82	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.48	14.83	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.79	15.14	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.55	13.90	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	4.34	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.98	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.76	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.64	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.70	13	PASS



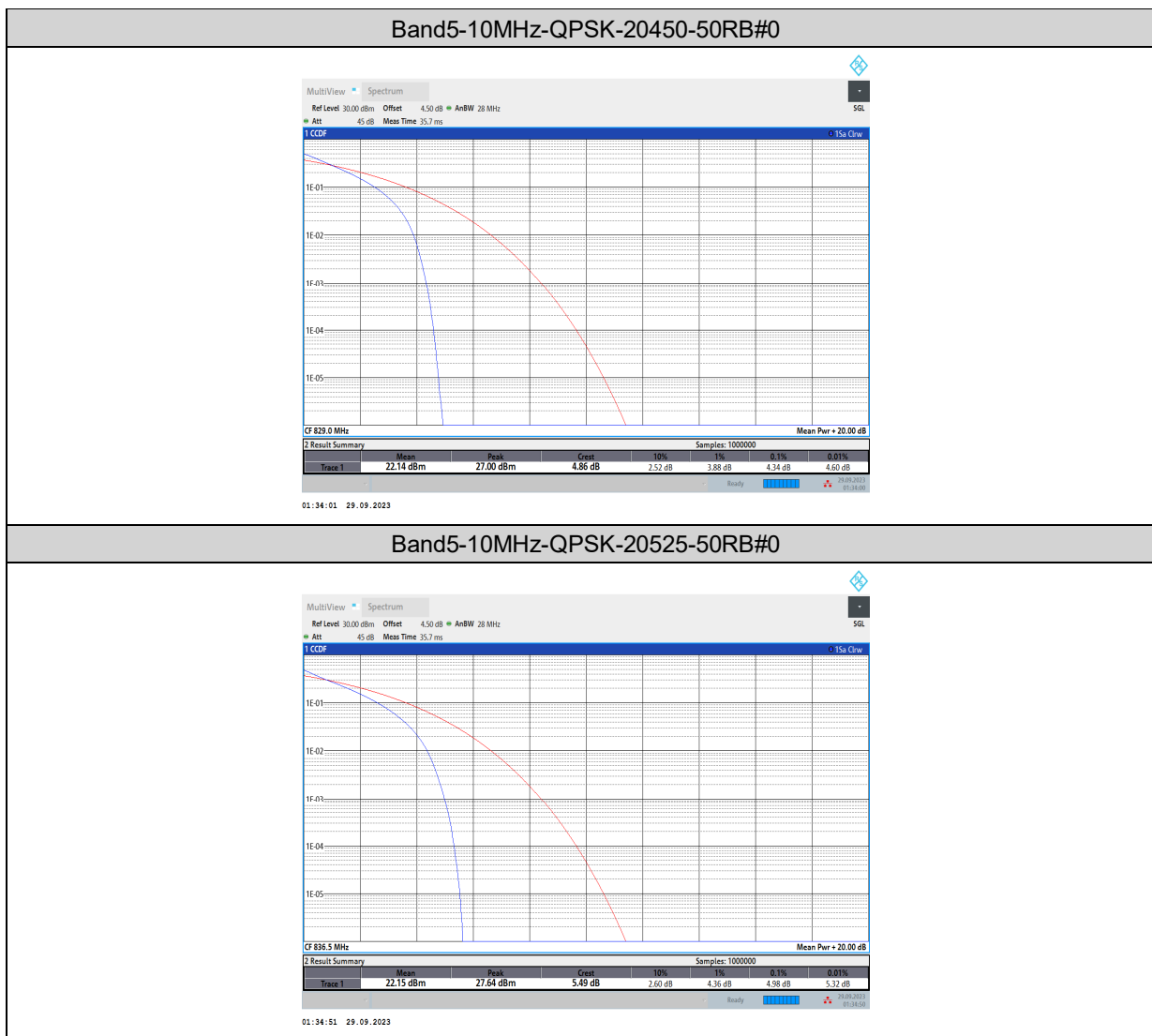
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Test Graphs



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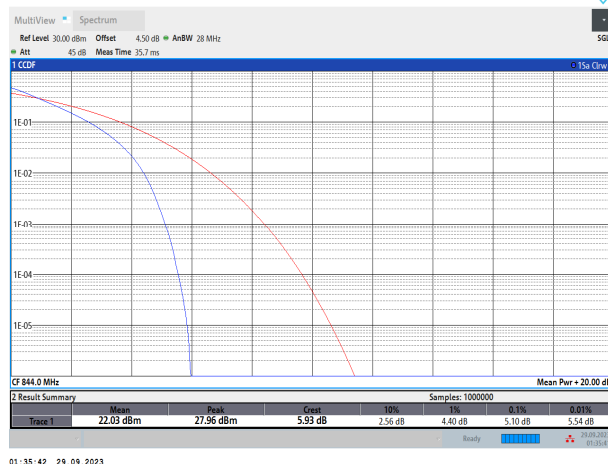
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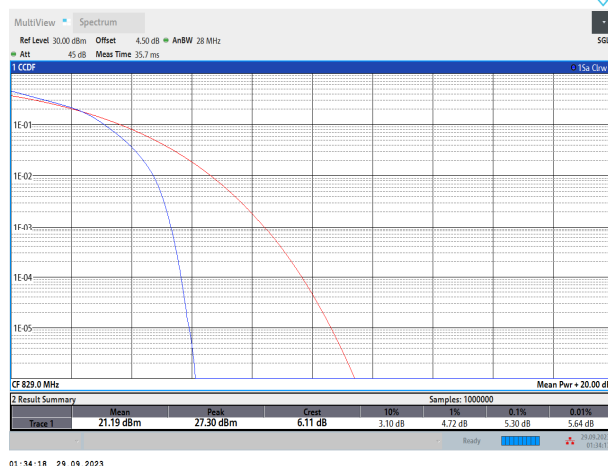
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Band5-10MHz-QPSK-20600-50RB#0



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



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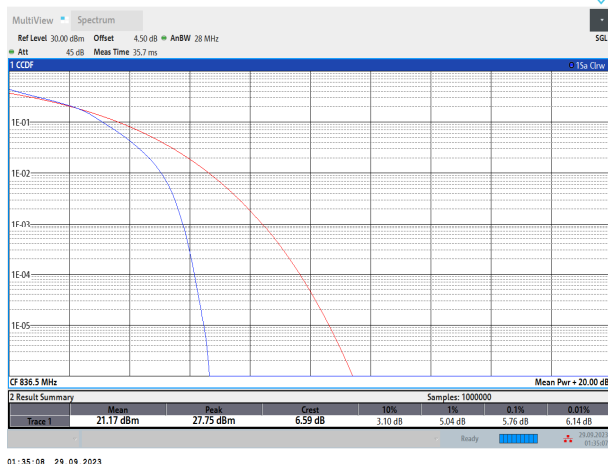
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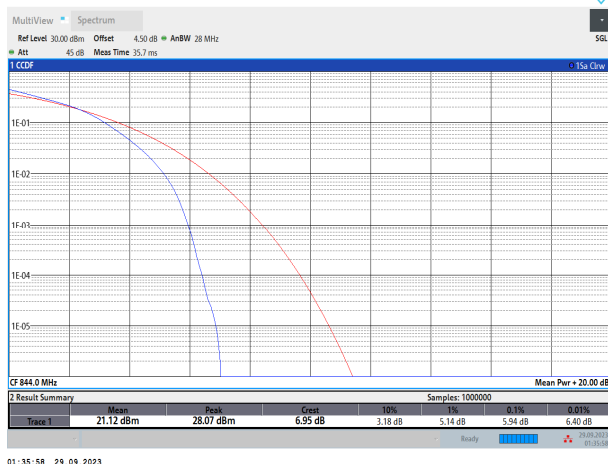
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Band5-10MHz-16QAM-20525-50RB#0



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



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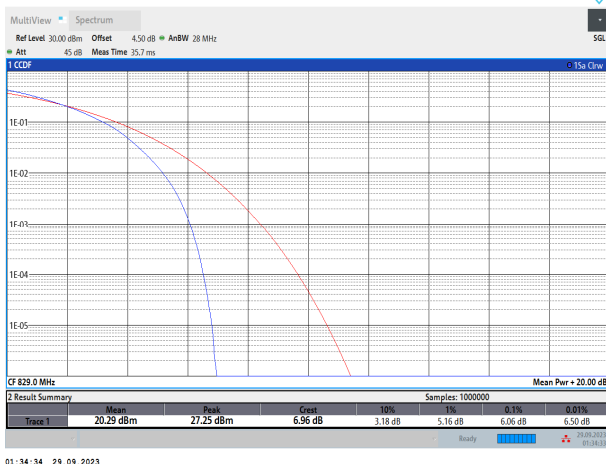
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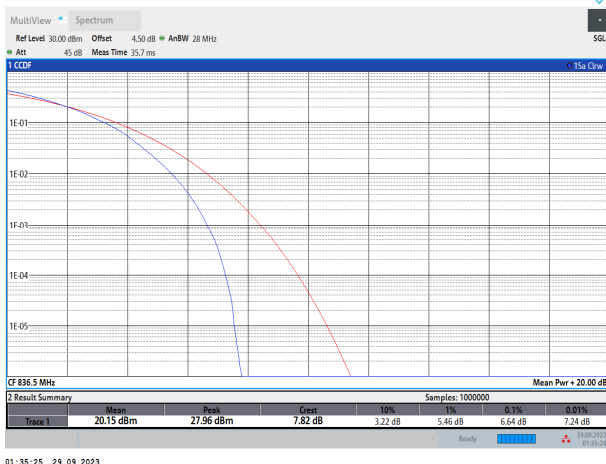
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Band5-10MHz-64QAM-20450-50RB#0



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



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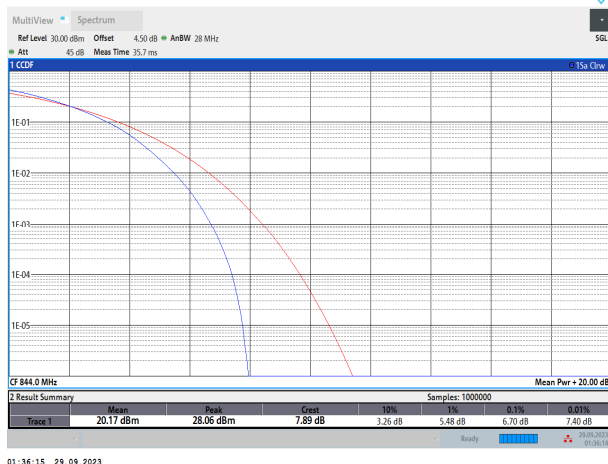
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Band5-10MHz-64QAM-20600-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	1.085	1.23	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.09	1.24	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.695	2.97	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.687	3.00	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.689	2.97	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.475	4.90	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.47	4.91	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.477	4.90	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.938	9.68	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.924	9.64	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.933	9.64	PASS



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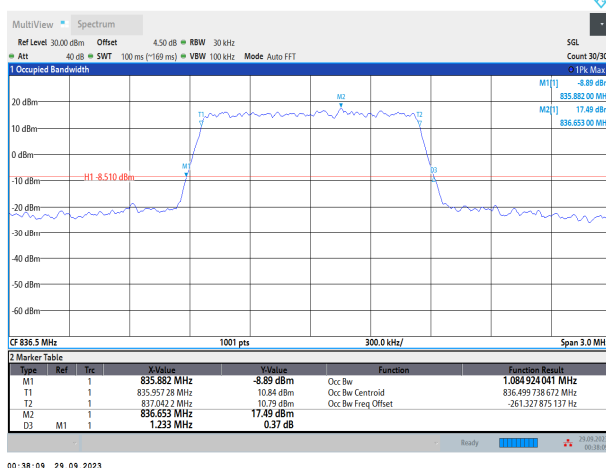
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Test Graphs

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



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



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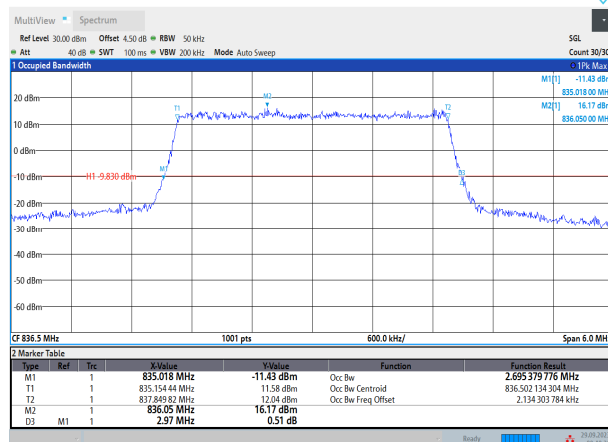
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Band5-1.4MHz-64QAM-20525-6RB#0



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



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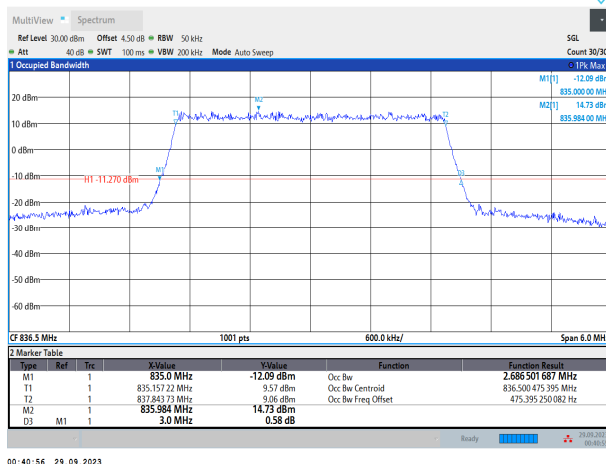
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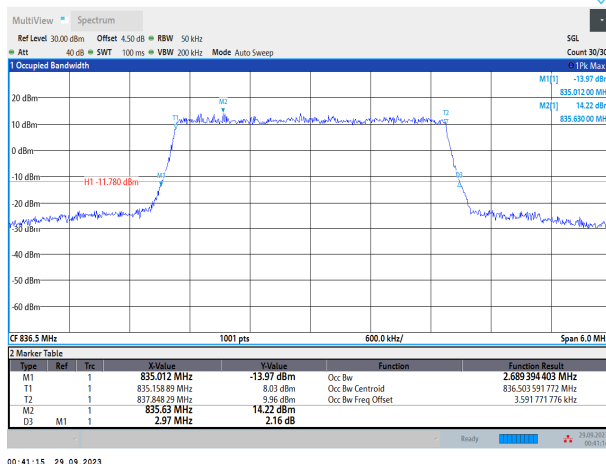
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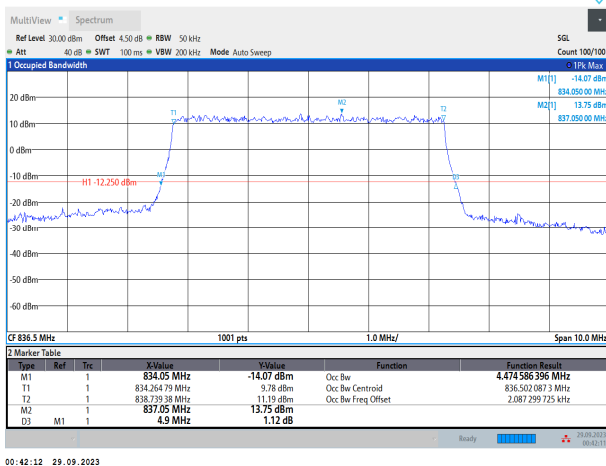


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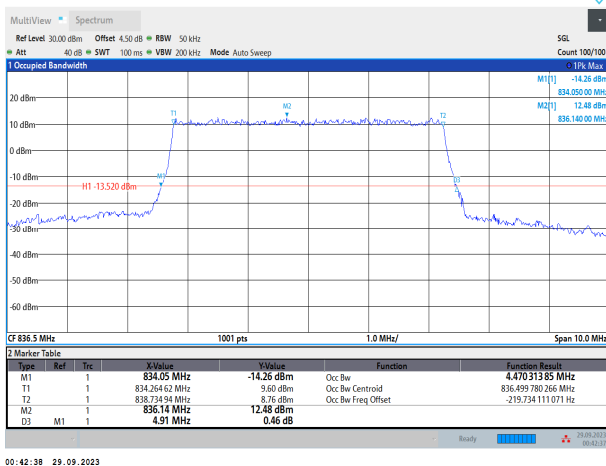
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Band5-5MHz-QPSK-20525-25RB#0



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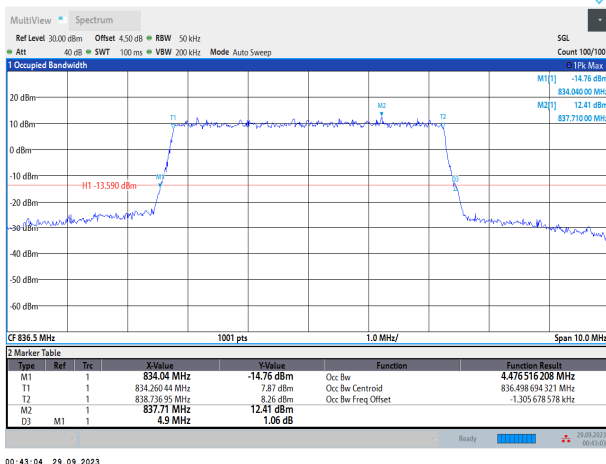
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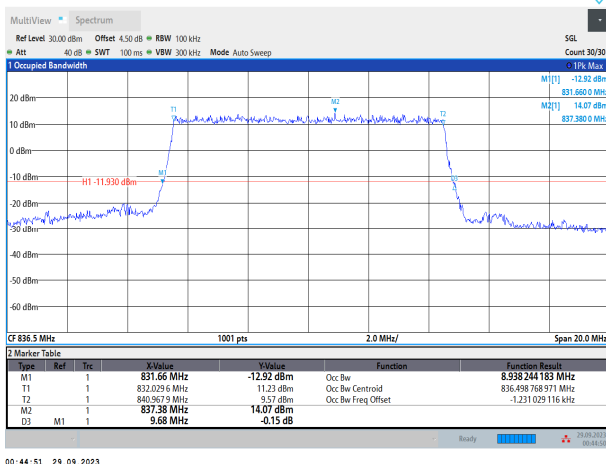
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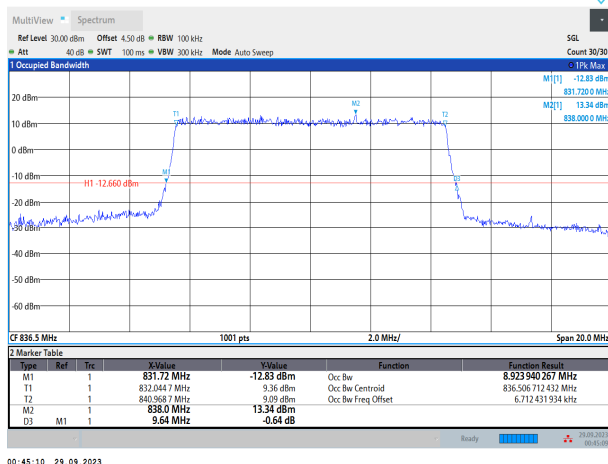
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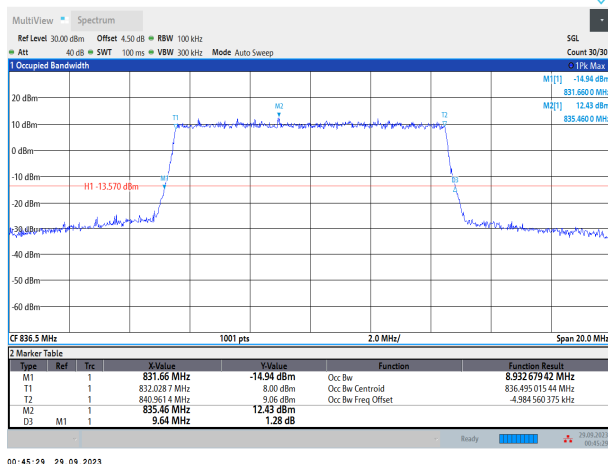
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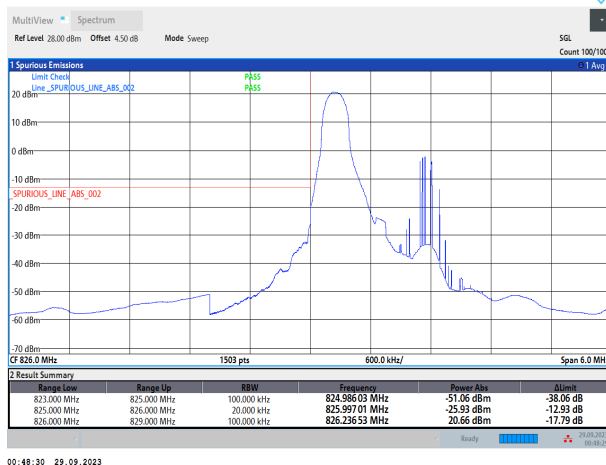
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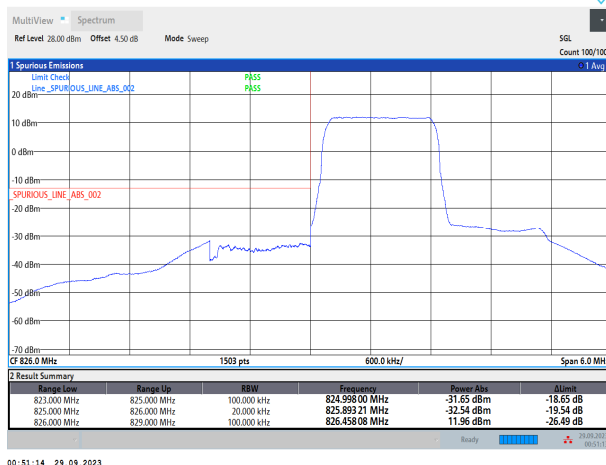
Band Edge

Test Graphs

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



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



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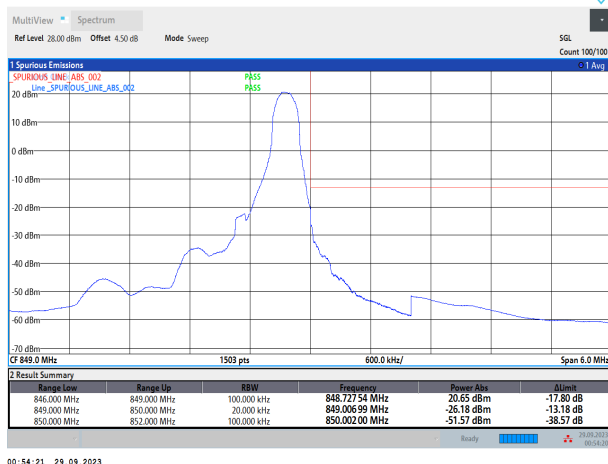
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Band5-1.4MHz-QPSK-20643-1RB#5



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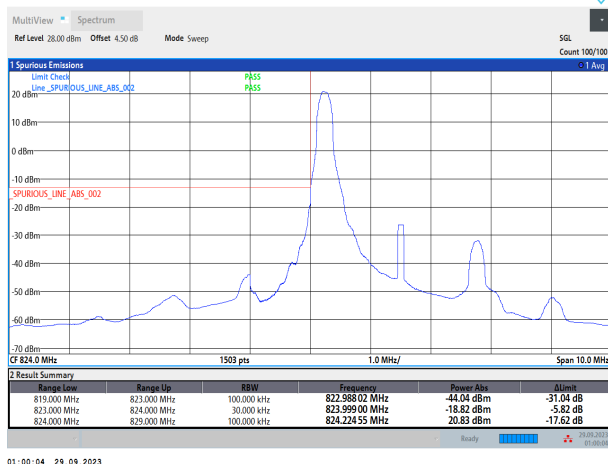
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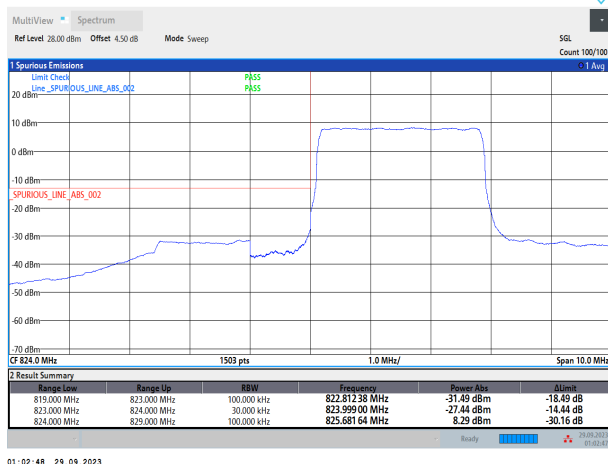
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Band5-3MHz-QPSK-20415-1RB#0



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



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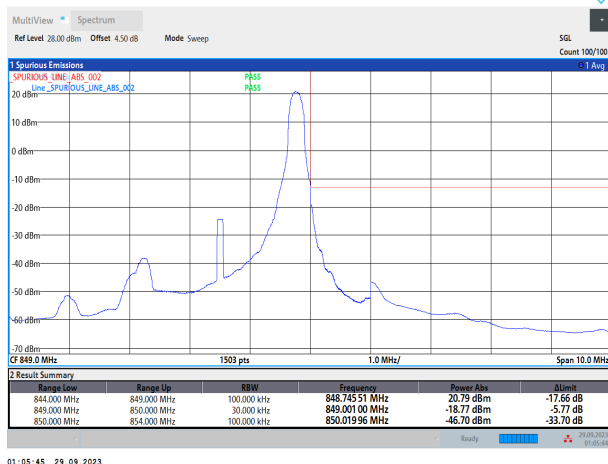
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Band5-3MHz-QPSK-20635-1RB#14



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



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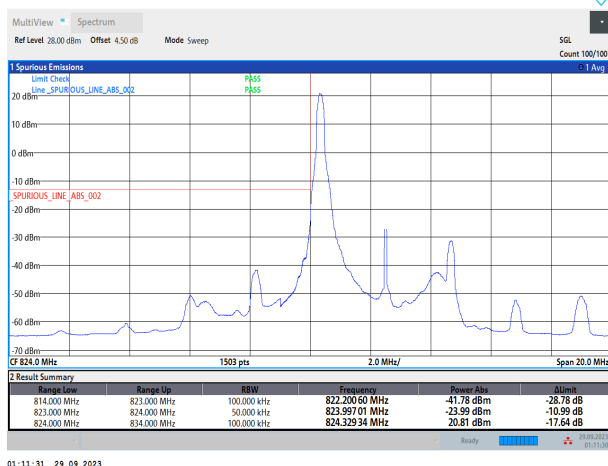
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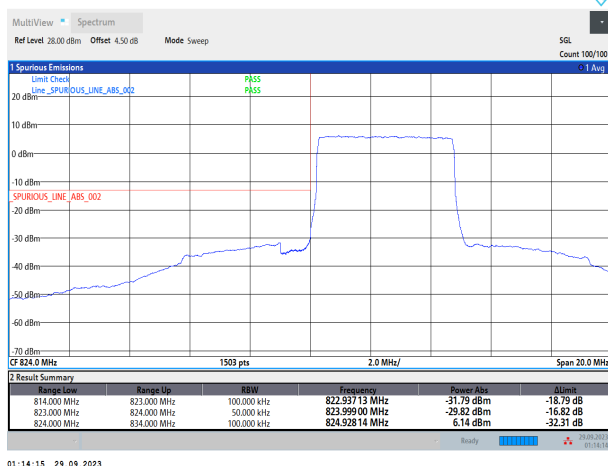
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Band5-5MHz-QPSK-20425-1RB#0



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



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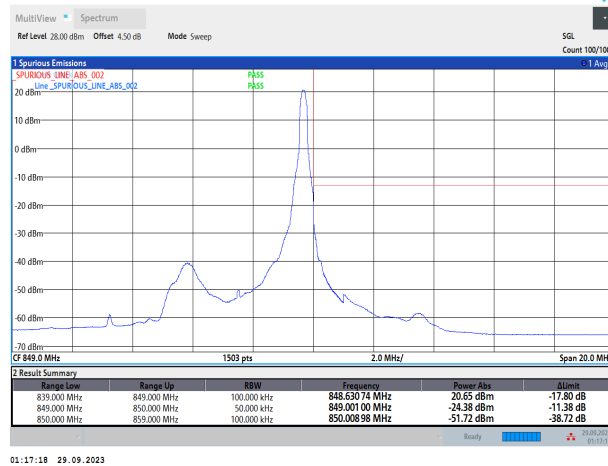
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Band5-5MHz-QPSK-20625-25RB#0



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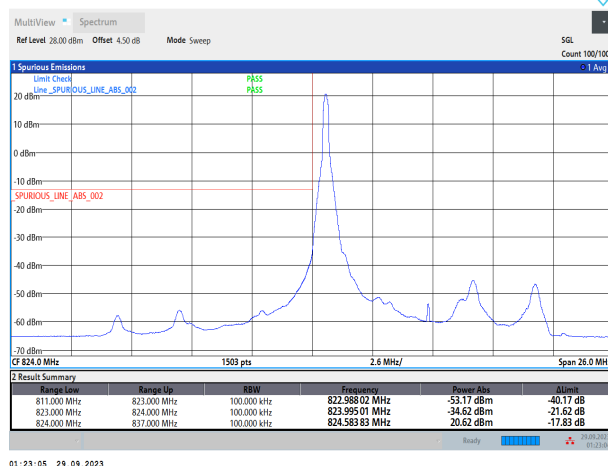
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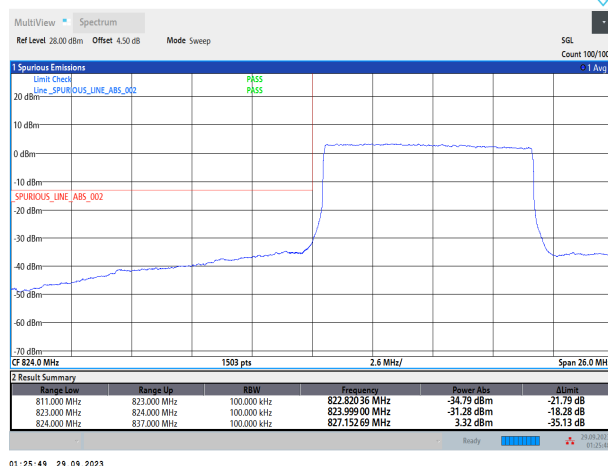
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Band5-10MHz-QPSK-20450-1RB#0



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



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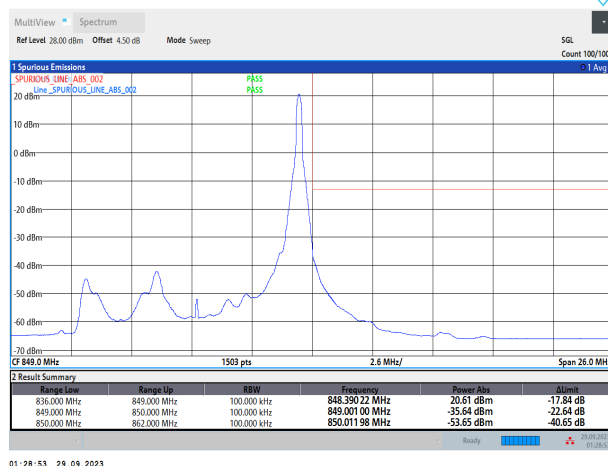
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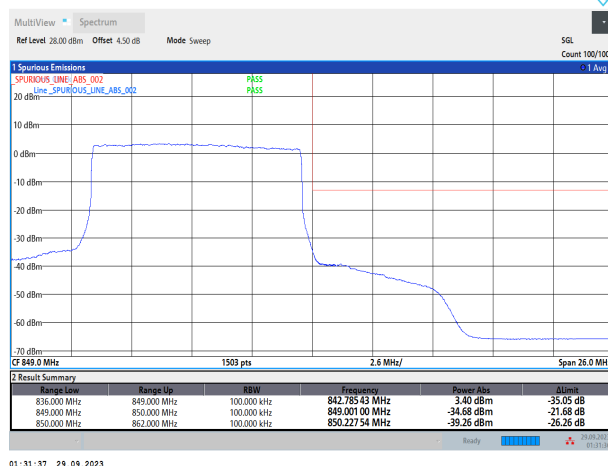
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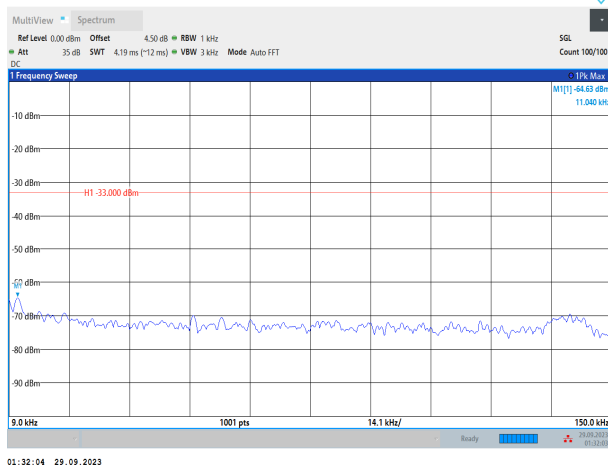
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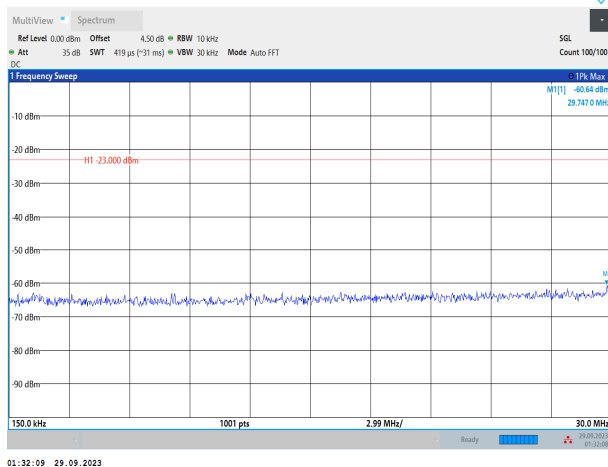
Conducted Spurious Emission

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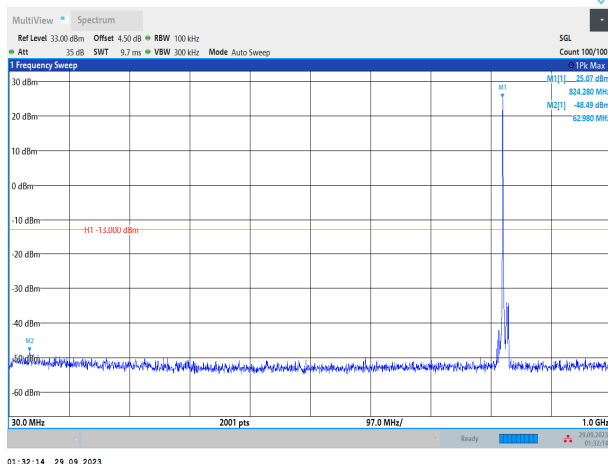
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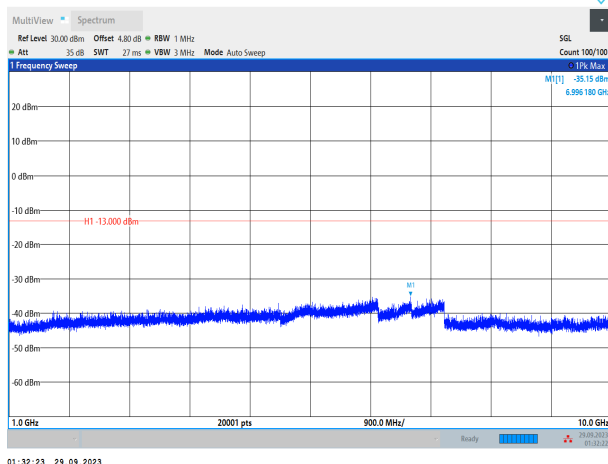
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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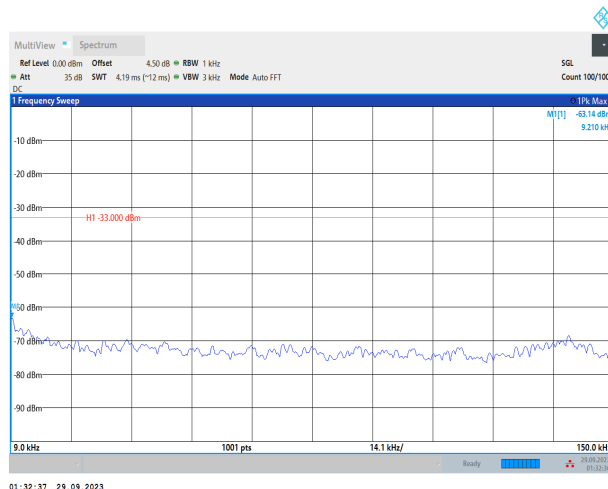
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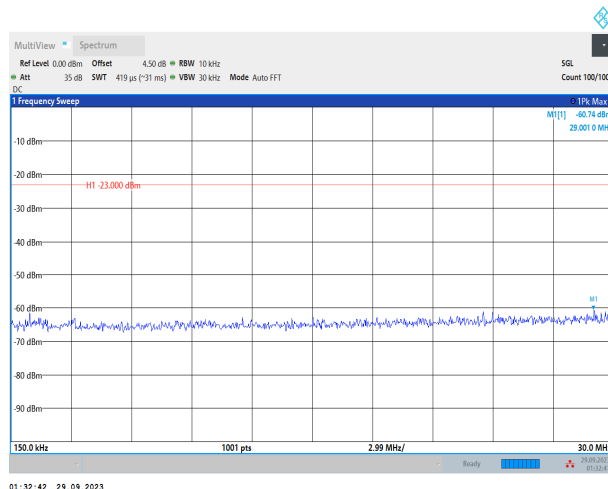
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Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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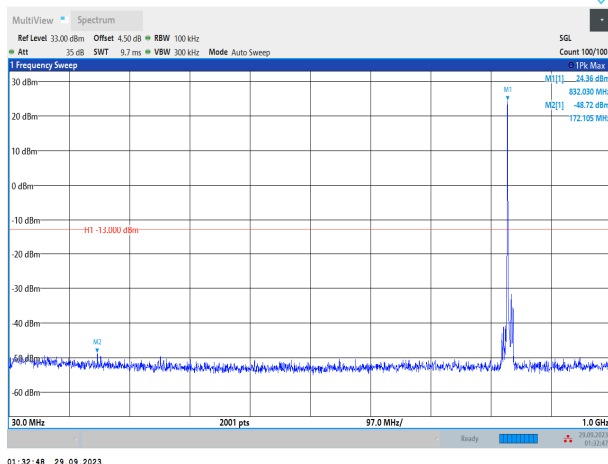
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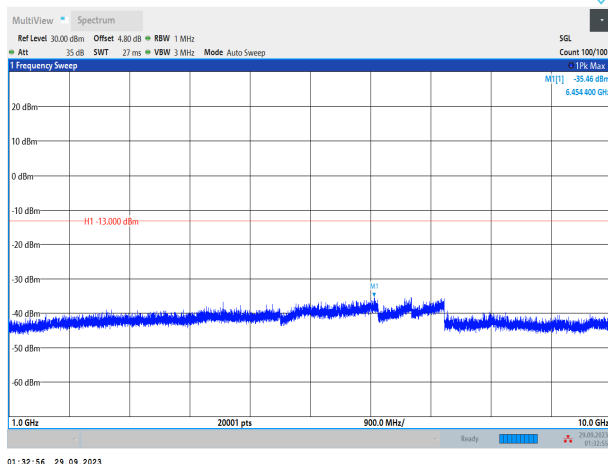
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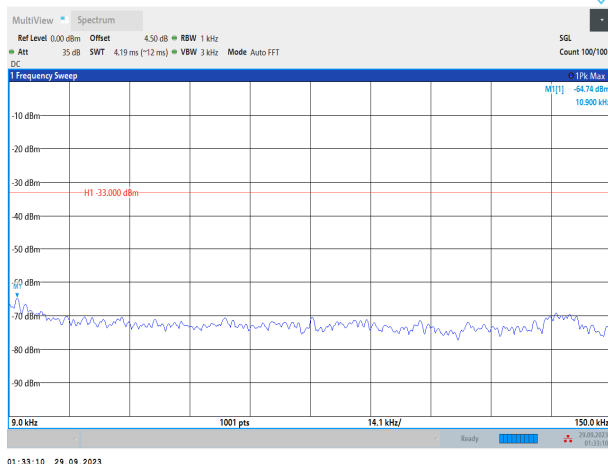
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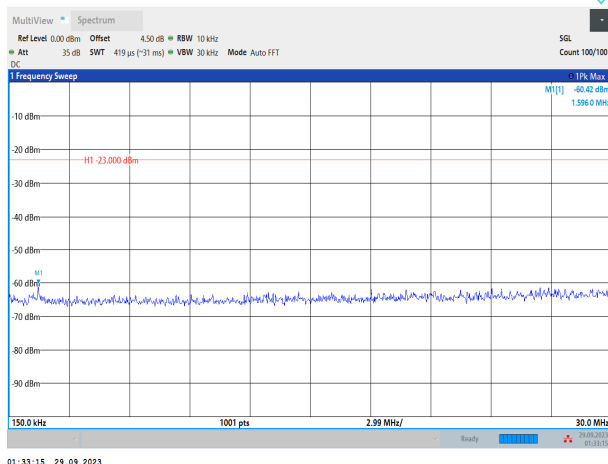
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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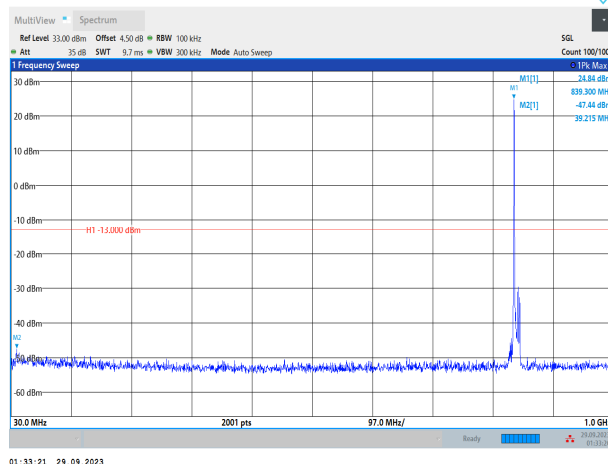
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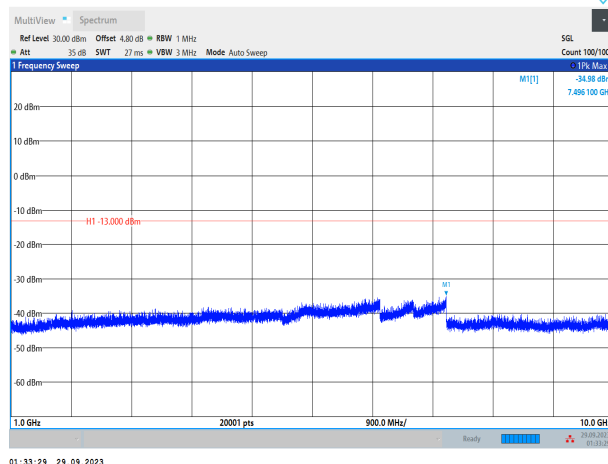
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.47	-48.22	25.27	-74.74	-13.00	61.74	Horizontal
2	2473.7700	42.02	-47.32	27.23	-73.33	-13.00	60.33	Horizontal
3	3298.3600	41.89	-46.68	28.48	-71.57	-13.00	58.57	Horizontal
4	4122.9500	40.72	-45.91	29.40	-71.06	-13.00	58.06	Horizontal
5	4947.5400	41.06	-45.69	31.29	-68.60	-13.00	55.60	Horizontal
6	5772.1300	38.81	-44.64	32.65	-68.43	-13.00	55.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	42.63	-48.22	25.27	-75.58	-13.00	62.58	Vertical
2	2473.7700	42.54	-47.32	27.23	-72.81	-13.00	59.81	Vertical
3	3298.3600	42.37	-46.68	28.48	-71.09	-13.00	58.09	Vertical
4	4122.9500	40.87	-45.91	29.40	-70.91	-13.00	57.91	Vertical
5	4947.5400	40.94	-45.69	31.29	-68.72	-13.00	55.72	Vertical
6	5772.1300	39.03	-44.64	32.65	-68.21	-13.00	55.21	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.82	-48.20	25.30	-75.35	-13.00	62.35	Horizontal
2	2496.2700	42.30	-47.28	27.29	-72.95	-13.00	59.95	Horizontal
3	3328.3600	42.26	-46.64	28.50	-71.14	-13.00	58.14	Horizontal
4	4160.4500	40.11	-45.94	29.49	-71.60	-13.00	58.60	Horizontal
5	4992.5400	40.57	-45.79	31.38	-69.10	-13.00	56.10	Horizontal
6	5824.6300	39.42	-44.74	32.67	-67.91	-13.00	54.91	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	43.30	-48.20	25.30	-74.87	-13.00	61.87	Vertical
2	2496.2700	42.22	-47.28	27.29	-73.03	-13.00	60.03	Vertical
3	3328.3600	42.25	-46.64	28.50	-71.15	-13.00	58.15	Vertical
4	4160.4500	40.19	-45.94	29.49	-71.52	-13.00	58.52	Vertical
5	4992.5400	40.84	-45.79	31.38	-68.83	-13.00	55.83	Vertical
6	5824.6300	39.08	-44.74	32.67	-68.25	-13.00	55.25	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = High
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	43.14	-48.18	25.32	-74.99	-13.00	61.99	Horizontal
2	2518.7700	42.17	-47.21	27.34	-72.96	-13.00	59.96	Horizontal
3	3358.3600	41.70	-46.60	28.52	-71.64	-13.00	58.64	Horizontal
4	4197.9500	40.70	-45.96	29.58	-70.94	-13.00	57.94	Horizontal
5	5037.5400	39.62	-45.65	31.49	-69.80	-13.00	56.80	Horizontal
6	5887.1300	39.62	-44.93	32.68	-67.89	-13.00	54.89	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.56	-48.18	25.32	-75.57	-13.00	62.57	Vertical
2	2518.7700	42.55	-47.21	27.34	-72.58	-13.00	59.58	Vertical
3	3358.3600	41.62	-46.60	28.52	-71.72	-13.00	58.72	Vertical
4	4197.9500	40.56	-45.96	29.58	-71.08	-13.00	58.08	Vertical
5	5037.5400	40.87	-45.65	31.49	-68.55	-13.00	55.55	Vertical
6	5887.1300	39.80	-44.93	32.68	-67.71	-13.00	54.71	Vertical



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Test Band = 5A_7A_TM1
Test Channel = Low
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3976	43.25	-46.10	29.08	-69.03	-25.00	44.03	Horizontal
2	5426.5	41.80	-45.28	32.42	-66.32	-25.00	41.32	Horizontal
3	6813.5	41.29	-44.16	34.86	-63.27	-25.00	38.27	Horizontal
4	9000	36.69	-41.00	36.30	-63.27	-25.00	38.27	Horizontal
5	12210.5	28.93	-37.48	38.86	-64.95	-25.00	39.95	Horizontal
6	14445	27.06	-34.82	41.08	-61.94	-25.00	36.94	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4080	43.39	-45.82	29.29	-68.39	-25.00	43.39	Vertical
2	5699.5	41.56	-44.85	32.64	-65.91	-25.00	40.91	Vertical
3	6801	40.92	-44.17	34.84	-63.67	-25.00	38.67	Vertical
4	8619	36.87	-41.40	36.49	-63.30	-25.00	38.30	Vertical
5	10703.5	31.10	-37.91	38.55	-63.51	-25.00	38.51	Vertical
6	13721.5	28.65	-36.21	40.40	-62.42	-25.00	37.42	Vertical



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Test Band = 5A_7A_TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4248.5	42.68	-45.66	29.70	-68.54	-25.00	43.54	Horizontal
2	5539	41.46	-45.17	32.61	-66.37	-25.00	41.37	Horizontal
3	6683.5	41.05	-43.90	34.63	-63.48	-25.00	38.48	Horizontal
4	7741	39.73	-42.79	36.70	-61.62	-25.00	36.62	Horizontal
5	10098	33.27	-39.12	38.25	-62.86	-25.00	37.86	Horizontal
6	12788.5	28.47	-36.81	39.04	-64.57	-25.00	39.57	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4316	42.36	-45.58	29.86	-68.63	-25.00	43.63	Vertical
2	5410	42.04	-45.29	32.38	-66.13	-25.00	41.13	Vertical
3	6580.5	42.46	-44.40	34.44	-62.76	-25.00	37.76	Vertical
4	9092	36.12	-40.40	36.47	-63.07	-25.00	38.07	Vertical
5	11444	30.67	-37.34	38.74	-63.19	-25.00	38.19	Vertical
6	12719.5	28.44	-36.71	39.02	-64.51	-25.00	39.51	Vertical



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Test Band = 5A_7A_TM1
Test Channel = High
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4070.5	43.19	-45.84	29.27	-68.64	-25.00	43.64	Horizontal
2	5549	42.11	-45.16	32.61	-65.70	-25.00	40.70	Horizontal
3	6823	41.13	-44.15	34.88	-63.40	-25.00	38.40	Horizontal
4	9080	35.92	-40.48	36.45	-63.37	-25.00	38.37	Horizontal
5	12656	28.80	-37.09	39.00	-64.56	-25.00	39.56	Horizontal
6	14673.5	27.02	-34.82	41.17	-61.89	-25.00	36.89	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3828.5	42.68	-46.02	28.93	-69.67	-25.00	44.67	Vertical
2	4926.5	42.80	-45.56	31.24	-66.78	-25.00	41.78	Vertical
3	6944	40.53	-43.86	35.10	-63.49	-25.00	38.49	Vertical
4	9086.5	36.55	-40.44	36.46	-62.68	-25.00	37.68	Vertical
5	11240.5	31.13	-37.40	38.72	-62.81	-25.00	37.81	Vertical
6	15154	26.86	-34.39	40.98	-61.82	-25.00	36.82	Vertical



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Test Band = 5A_66A_TM1
Test Channel = Low
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4275.75	40.96	-45.60	29.76	-70.13	-13.00	57.13	Horizontal
2	5244.75	40.26	-45.19	31.99	-68.21	-13.00	55.21	Horizontal
3	6631.5	40.05	-44.18	34.54	-64.85	-13.00	51.85	Horizontal
4	7848.75	37.12	-42.56	36.74	-63.96	-13.00	50.96	Horizontal
5	10671	29.74	-38.05	38.54	-65.04	-13.00	52.04	Horizontal
6	13377	26.03	-36.44	39.78	-65.89	-13.00	52.89	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4021.5	41.70	-45.98	29.15	-70.39	-13.00	57.39	Vertical
2	5451.75	40.20	-45.27	32.48	-67.84	-13.00	54.84	Vertical
3	6827.25	39.33	-44.15	34.89	-65.19	-13.00	52.19	Vertical
4	8464.5	36.79	-41.56	36.57	-63.46	-13.00	50.46	Vertical
5	11215.5	29.61	-37.39	38.72	-64.32	-13.00	51.32	Vertical
6	14362.5	25.67	-35.31	41.05	-63.86	-13.00	50.86	Vertical



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Test Band = 5A_66A_TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3781.5	41.32	-45.84	28.88	-70.90	-13.00	57.90	Horizontal
2	6321	39.47	-44.51	33.73	-66.58	-13.00	53.58	Horizontal
3	8585.25	35.88	-41.37	36.51	-64.25	-13.00	51.25	Horizontal
4	10690.5	29.64	-37.94	38.55	-65.01	-13.00	52.01	Horizontal
5	13761	27.01	-36.31	40.47	-64.09	-13.00	51.09	Horizontal
6	15358.5	24.92	-33.88	40.55	-63.67	-13.00	50.67	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3712.5	41.28	-45.55	28.81	-70.72	-13.00	57.72	Vertical
2	4887	42.89	-45.53	31.15	-66.75	-13.00	53.75	Vertical
3	8933.25	35.48	-41.16	36.33	-64.61	-13.00	51.61	Vertical
4	10530	31.00	-38.70	38.47	-64.50	-13.00	51.50	Vertical
5	13708.5	27.89	-36.18	40.38	-63.18	-13.00	50.18	Vertical
6	15153.75	26.02	-34.40	40.98	-62.66	-13.00	49.66	Vertical



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Test Band = 5A_66A_ TM1
Test Channel = High
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4103.25	41.26	-45.76	29.35	-70.41	-13.00	57.41	Horizontal
2	5532	40.05	-45.19	32.61	-67.79	-13.00	54.79	Horizontal
3	7003.5	38.88	-43.57	35.21	-64.74	-13.00	51.74	Horizontal
4	8010.75	36.30	-42.24	36.79	-64.41	-13.00	51.41	Horizontal
5	10634.25	29.82	-38.27	38.52	-65.19	-13.00	52.19	Horizontal
6	13704	26.87	-36.17	40.37	-64.19	-13.00	51.19	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3773.25	41.06	-45.81	28.87	-71.13	-13.00	58.13	Vertical
2	5214.75	40.73	-45.25	31.92	-67.87	-13.00	54.87	Vertical
3	6754.5	39.50	-44.01	34.76	-65.01	-13.00	52.01	Vertical
4	8034	36.39	-42.01	36.78	-64.10	-13.00	51.10	Vertical
5	9556.5	33.68	-39.91	37.36	-64.14	-13.00	51.14	Vertical
6	13879.5	26.37	-35.64	40.68	-63.85	-13.00	50.85	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	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.00	0.000000	±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	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.20	0.001435	±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	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.40	-0.001674	±2.5	PASS

---End of Attachment---



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