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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.2	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.58	20.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.6	20.15	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.62	19.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.27	19.82	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.64	20.19	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.62	20.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.62	19.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.26	19.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.49	20.04	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.52	20.07	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.52	19.07	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.7	19.25	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.71	19.26	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.66	19.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.9	18.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.76	19.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.76	19.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.67	19.22	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.94	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.61	19.16	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.66	19.21	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.64	19.19	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.78	18.33	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.78	18.33	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.72	18.27	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.66	18.21	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.57	17.12	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.75	18.3	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.74	18.29	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.74	18.29	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.65	17.2	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.55	18.1	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.65	18.2	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.57	18.12	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.47	17.02	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.65	15.2	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.69	15.24	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.7	15.25	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.56	15.11	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.8	15.35	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.75	15.3	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.68	15.23	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.59	15.14	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.55	15.1	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.49	15.04	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.61	15.16	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.45	15	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.62	20.17	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.59	20.14	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.62	20.17	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.61	19.16	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.56	20.11	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.61	20.16	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.61	20.16	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.67	19.22	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.78	20.33	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.5	20.05	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.51	20.06	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	23.57	19.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.65	19.2	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.72	19.27	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.69	19.24	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.92	18.47	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.71	19.26	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.73	19.28	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.65	19.2	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.96	18.51	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.65	19.2	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.59	19.14	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.61	19.16	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.83	18.38	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.74	18.29	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.77	18.32	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.78	18.33	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.64	17.19	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.71	18.26	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.78	18.33	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.73	18.28	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.64	17.19	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.64	18.19	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.64	18.19	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.59	18.14	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.5	17.05	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.65	15.2	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.65	15.2	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.67	15.22	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	19.57	15.12	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.7	15.25	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.73	15.28	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.7	15.25	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#0	19.61	15.16	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.56	15.11	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.61	15.16	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.52	15.07	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.66	20.21	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.65	20.2	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.65	20.2	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.62	19.17	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.55	20.1	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.71	20.26	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.66	20.21	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.6	19.15	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.34	19.89	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.63	20.18	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.57	20.12	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.55	19.1	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.73	19.28	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.74	19.29	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.77	19.32	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.91	18.46	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.8	19.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.77	19.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.73	19.28	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.97	18.52	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.71	19.26	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.68	19.23	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.71	19.26	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.88	18.43	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.71	18.26	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.73	18.28	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.73	18.28	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#0	22.76	18.31	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.75	18.3	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.78	18.33	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.64	17.19	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.79	18.34	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.64	18.19	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.64	18.19	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.51	17.06	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.7	15.25	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	19.77	15.32	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.77	15.32	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	19.61	15.16	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.78	15.33	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.75	15.3	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.7	15.25	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	19.62	15.17	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.73	15.28	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.61	15.16	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.65	15.2	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.53	15.08	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.64	20.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.61	20.16	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.62	20.17	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.67	19.22	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.31	19.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.65	20.2	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.64	20.19	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.68	19.23	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.55	20.1	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.55	20.1	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.54	20.09	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	23.59	19.14	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.72	19.27	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.69	19.24	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.73	19.28	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.94	18.49	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.75	19.3	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.7	19.25	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.74	19.29	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.99	18.54	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.77	19.32	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.7	19.25	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.57	19.12	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.88	18.43	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.74	18.29	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.83	18.38	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.71	18.26	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.62	17.17	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.8	18.35	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.77	18.32	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.79	18.34	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.65	17.2	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.79	18.34	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.7	18.25	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.64	18.19	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.58	17.13	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	19.72	15.27	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.76	15.31	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	19.79	15.34	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	19.63	15.18	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	19.8	15.35	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.73	15.28	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	19.68	15.23	38.45	PASS



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Band5	10MHz	256QAM	20525	50RB#0	19.67	15.22	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.78	15.33	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.69	15.24	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.63	15.18	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	19.58	15.13	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	4.98	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.24	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.62	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.68	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.58	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.10	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.14	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.10	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.44	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.42	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.44	13	PASS



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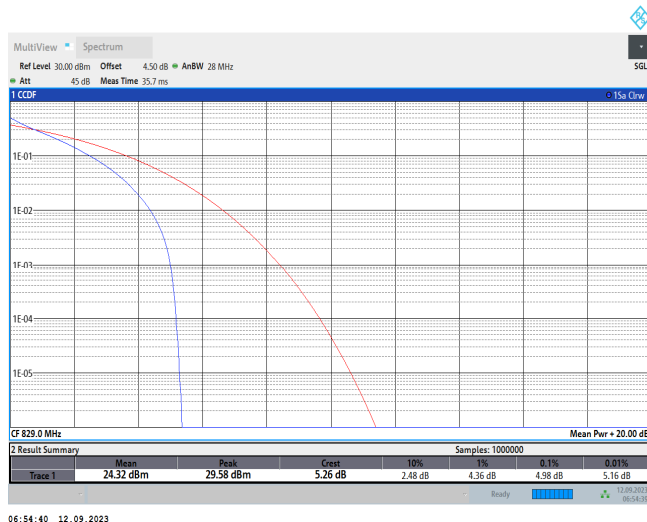
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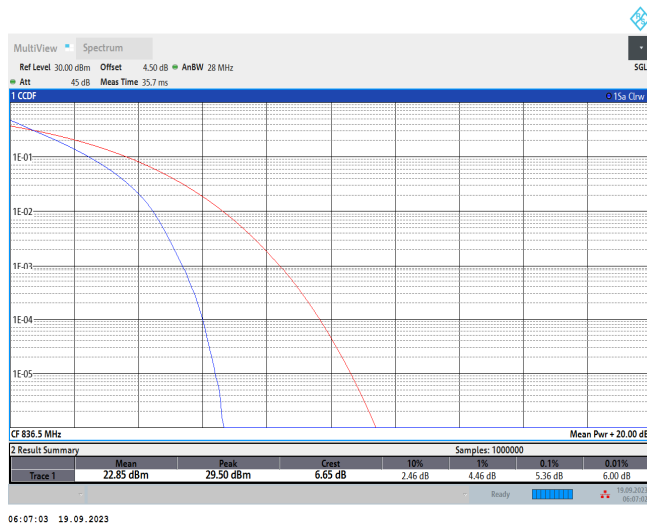
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Test Graphs

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



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



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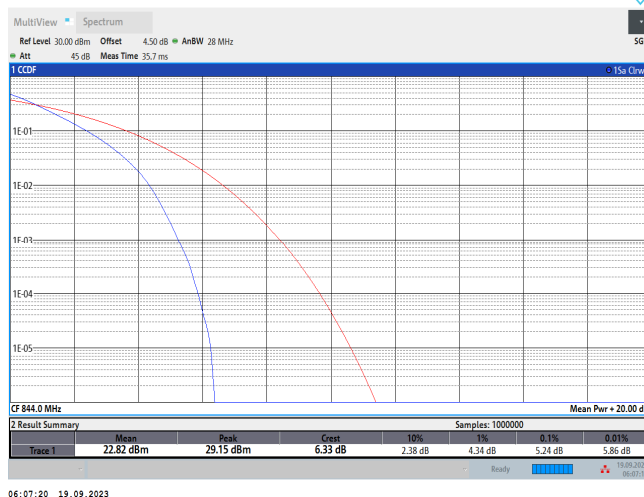
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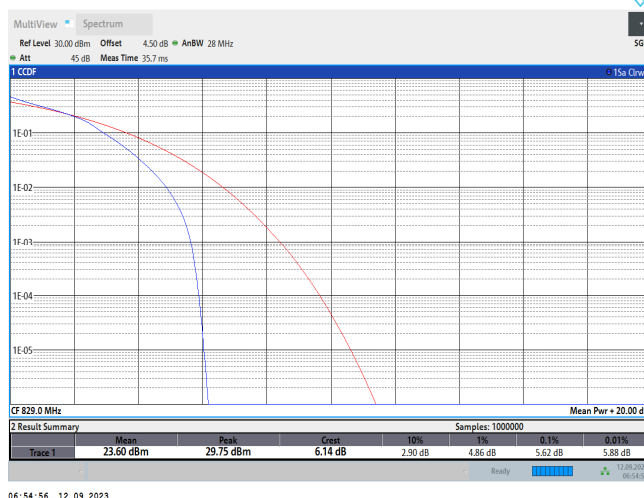
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Band5-10MHz-QPSK-20600-50RB#0



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



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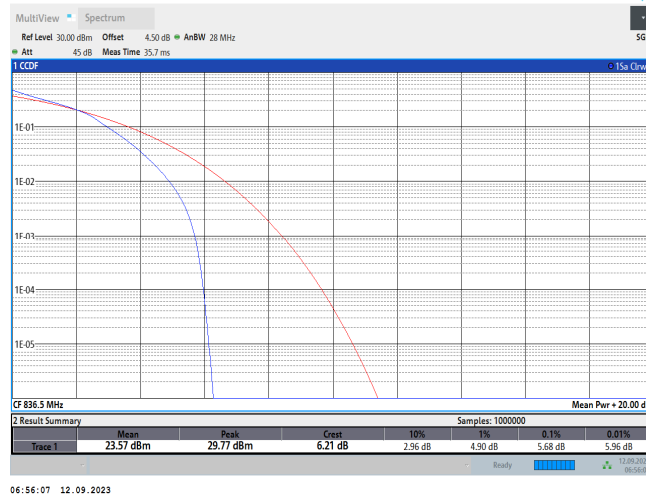
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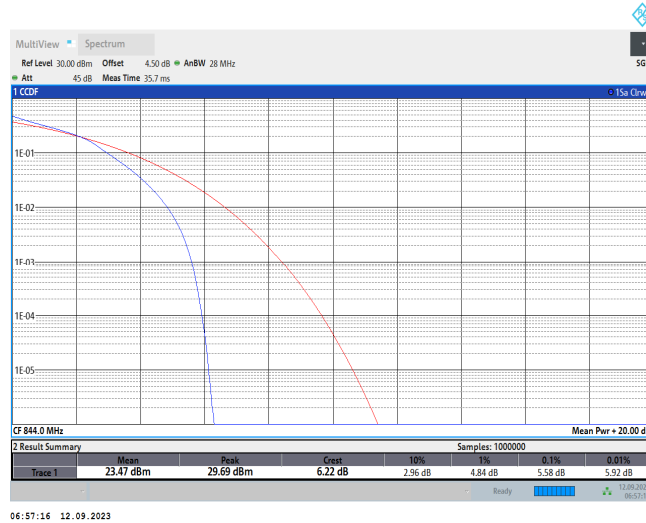
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Band5-10MHz-16QAM-20525-50RB#0



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



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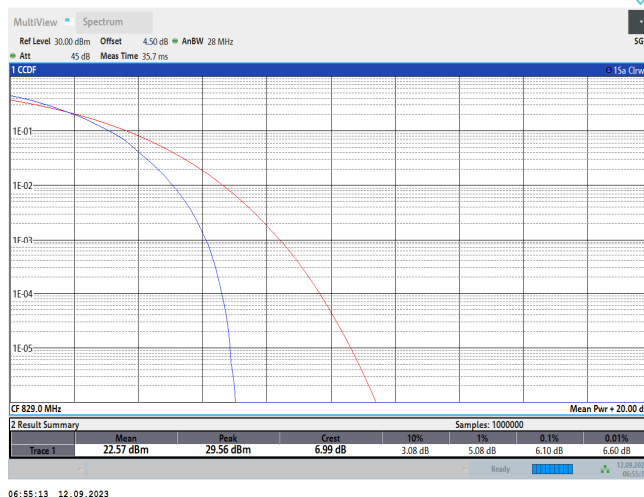
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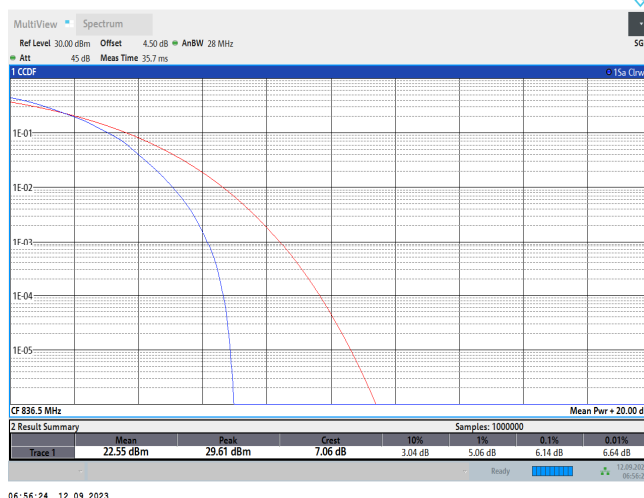
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Band5-10MHz-64QAM-20450-50RB#0



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



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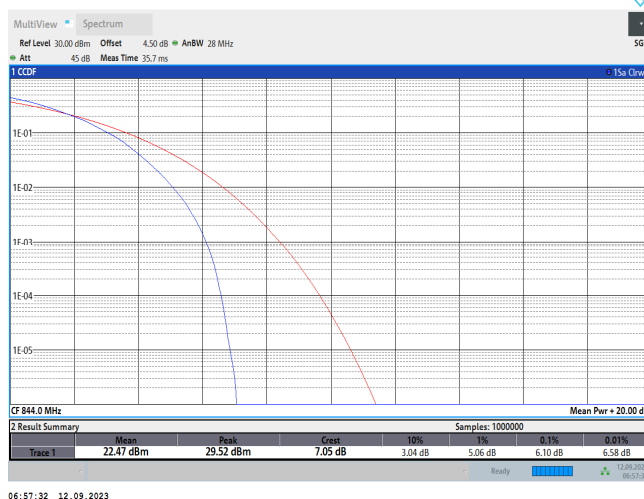
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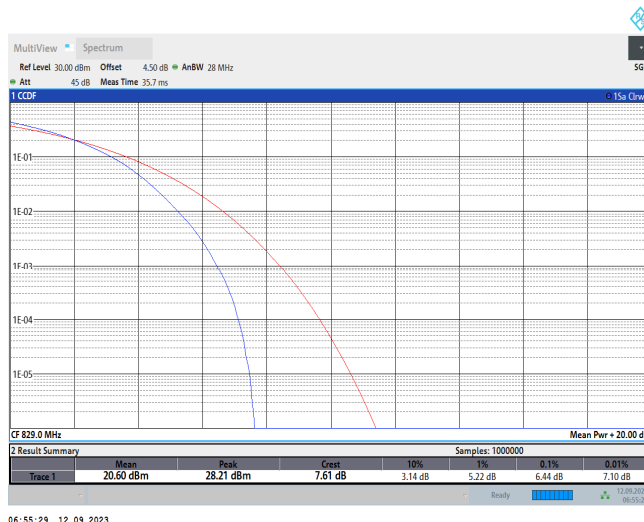
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Band5-10MHz-64QAM-20600-50RB#0



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



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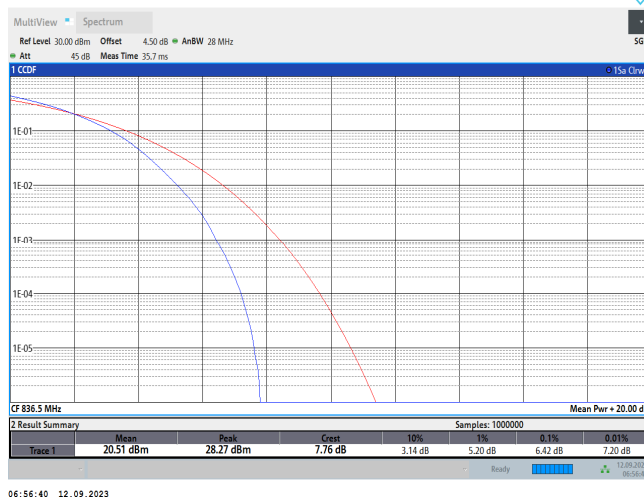
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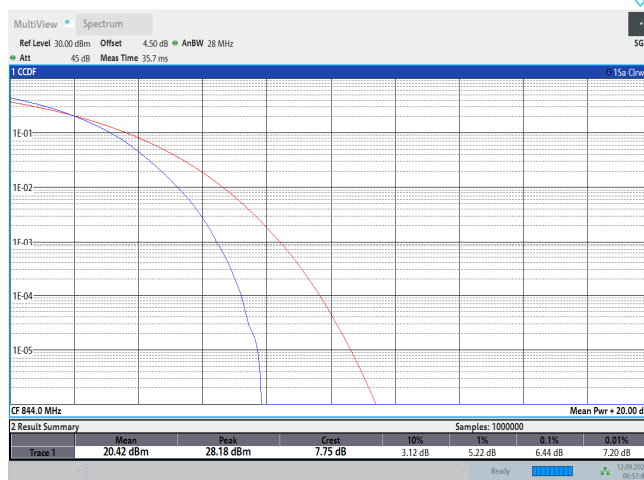
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Band5-10MHz-256QAM-20525-50RB#0



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Band5-10MHz-256QAM-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	1.094	1.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.086	1.28	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	2.95	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.95	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.69	2.92	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.692	2.95	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.469	4.86	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.86	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.473	4.86	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.465	4.84	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.922	9.68	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.923	9.66	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.934	9.66	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.933	9.62	PASS



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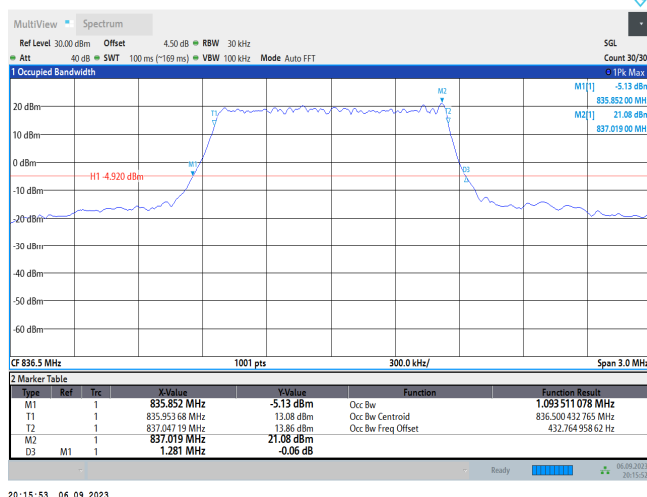
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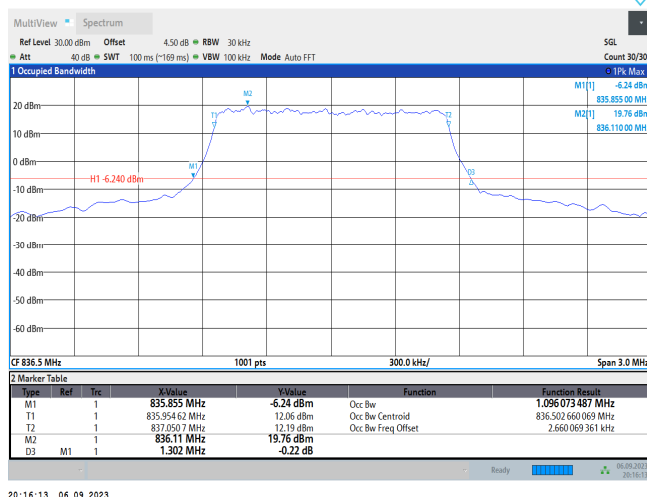
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Test Graphs

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



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



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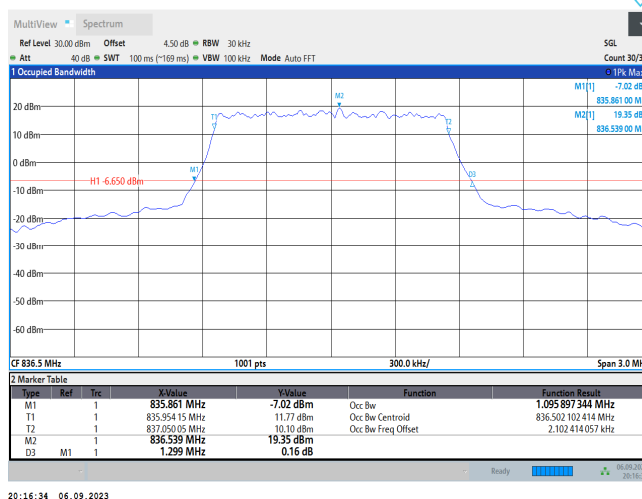
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Band5-1.4MHz-64QAM-20525-6RB#0



Band5-1.4MHz-256QAM-20525-6RB#0

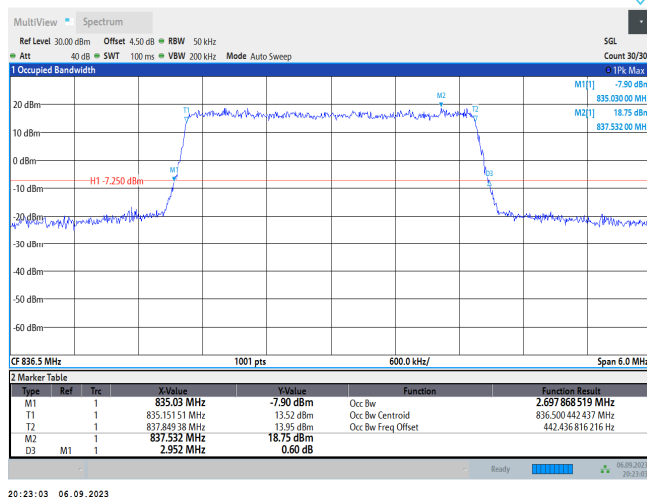


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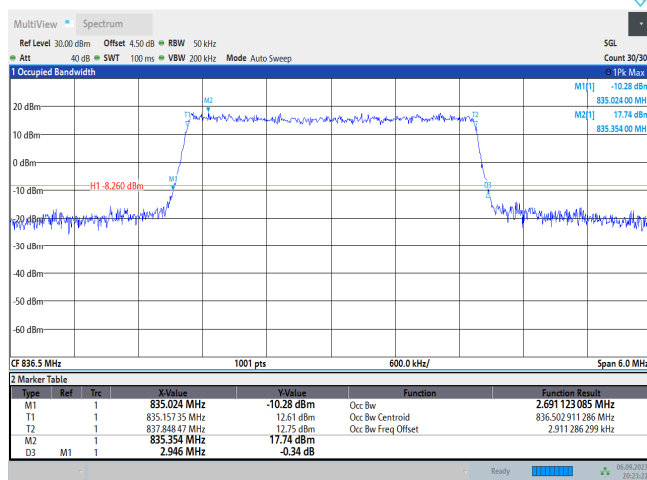
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Band5-3MHz-QPSK-20525-15RB#0



20:23:03 06.09.2023

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



20:23:23 06.09.2023



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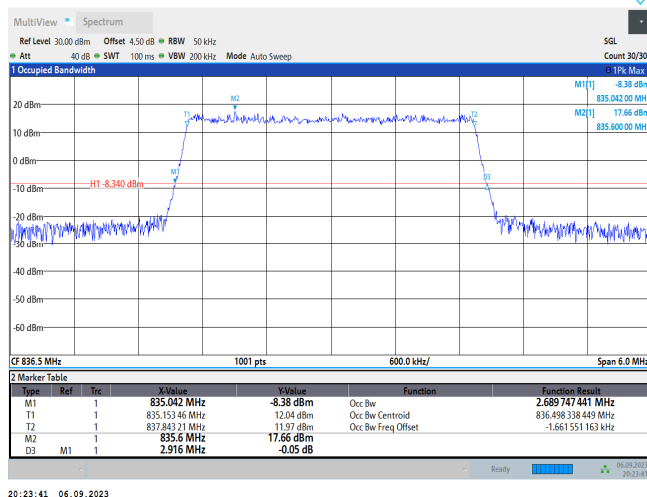
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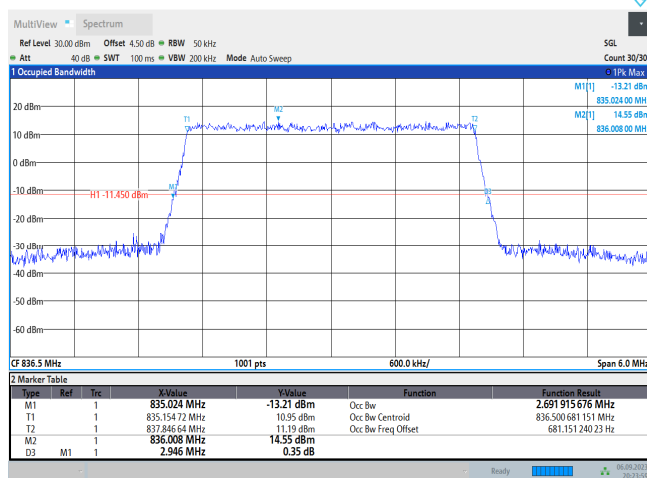
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Band5-3MHz-256QAM-20525-15RB#0



20:24:00 06.09.2023



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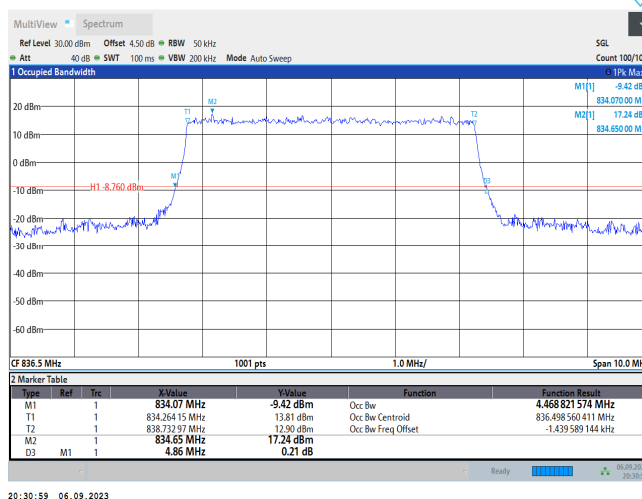
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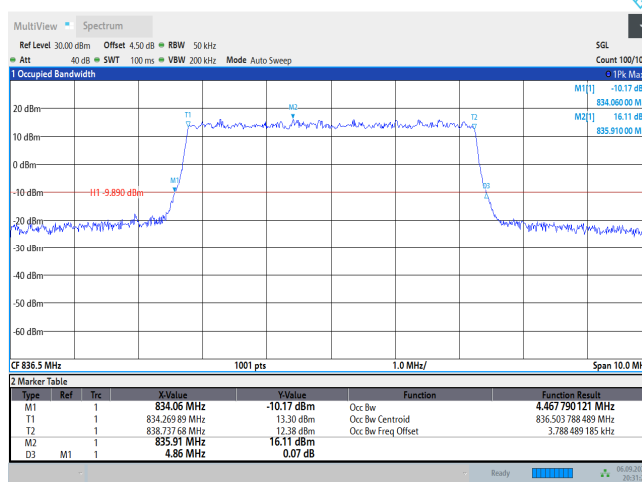
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20:30:59 06.09.2023

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



20:31:25 06.09.2023



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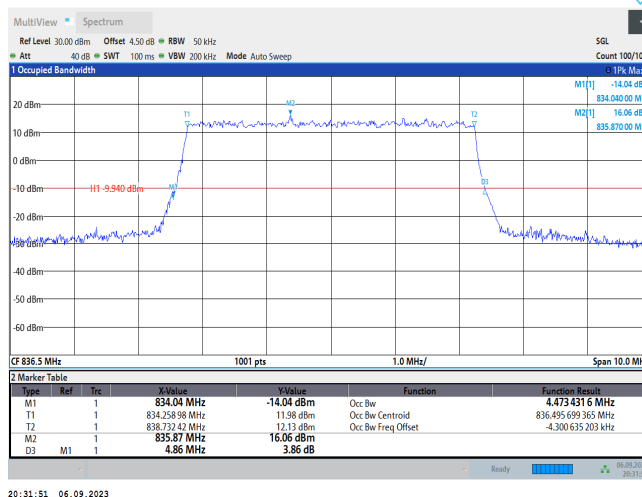
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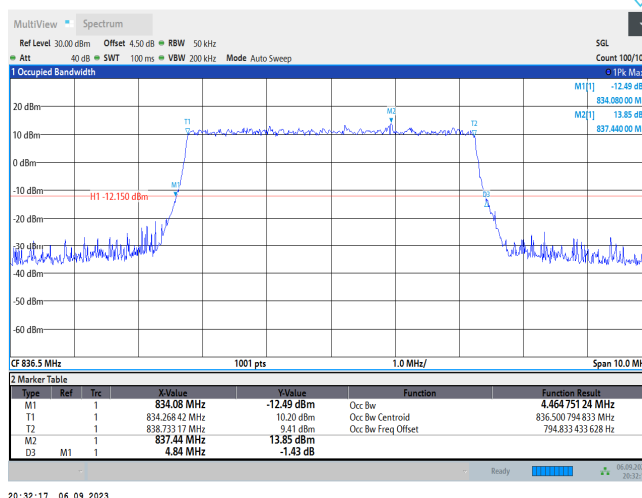
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Band5-5MHz-256QAM-20525-25RB#0



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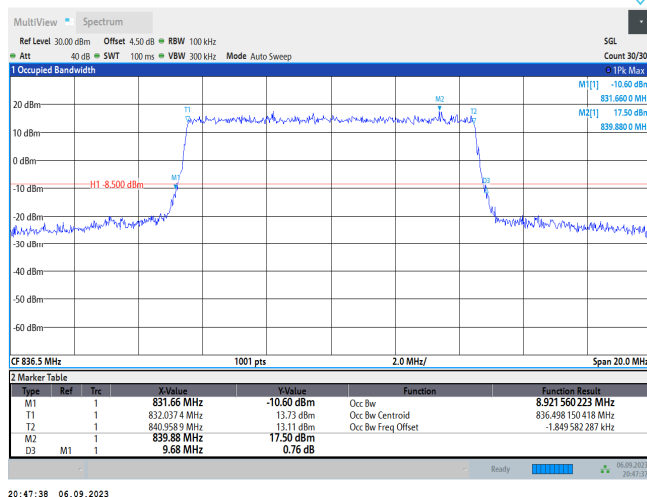
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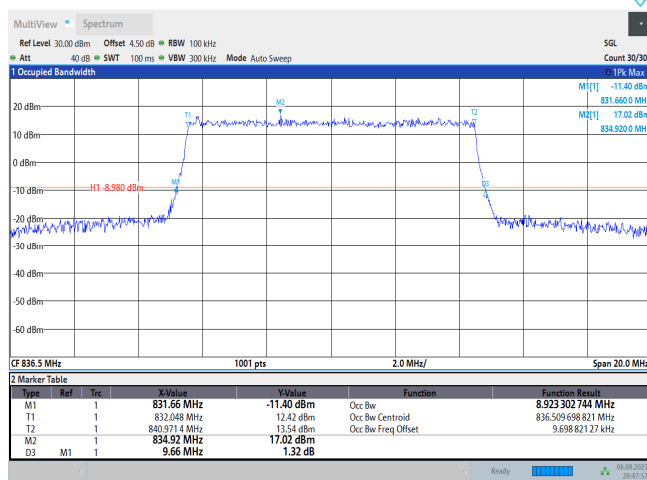
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Band5-10MHz-16QAM-20525-50RB#0



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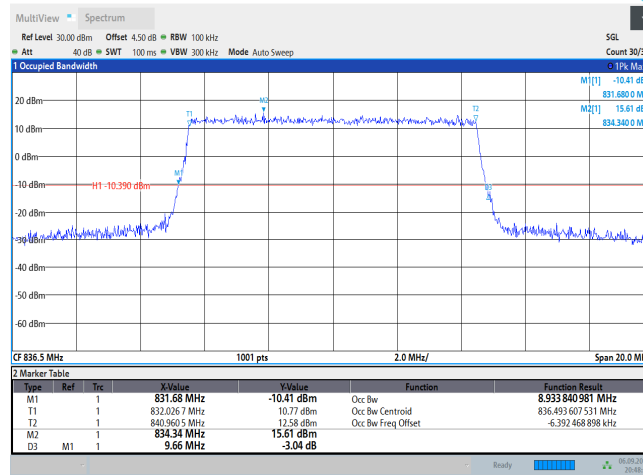
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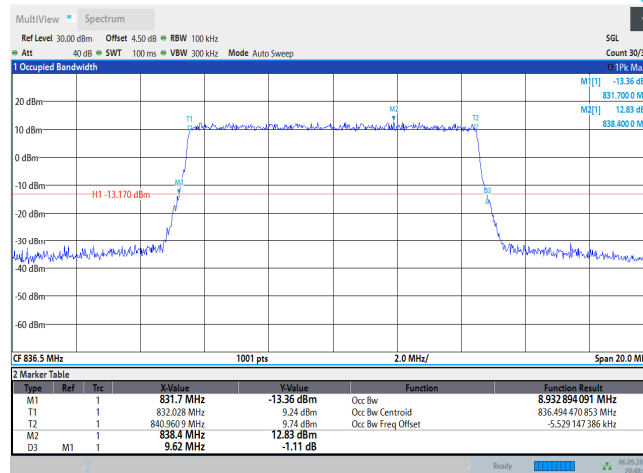
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Band5-10MHz-256QAM-20525-50RB#0



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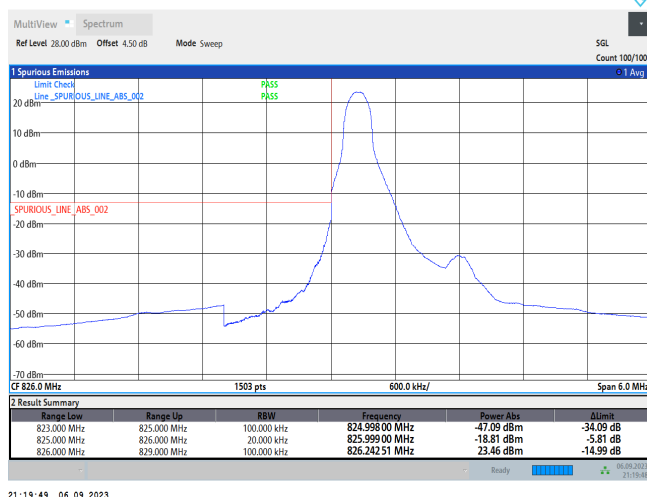
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Band Edge

Test Graphs

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



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



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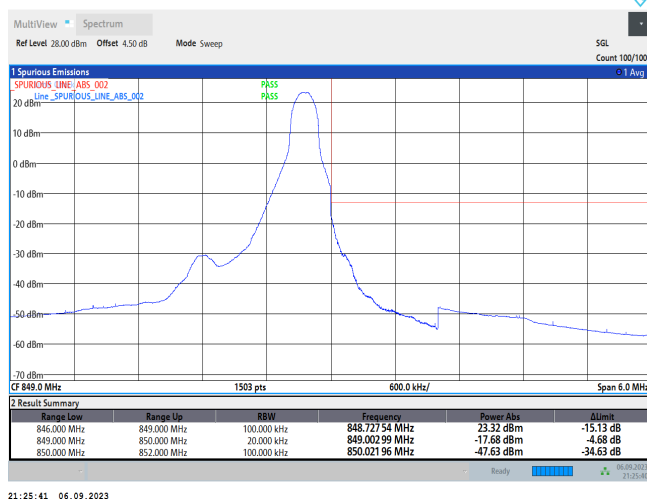
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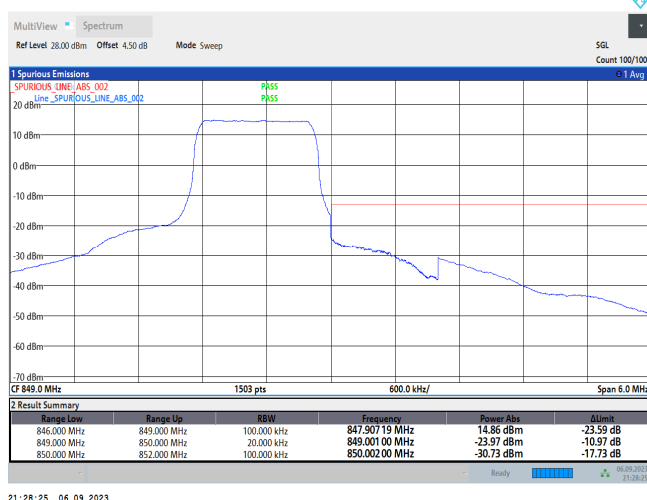
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Band5-1.4MHz-QPSK-20643-1RB#5



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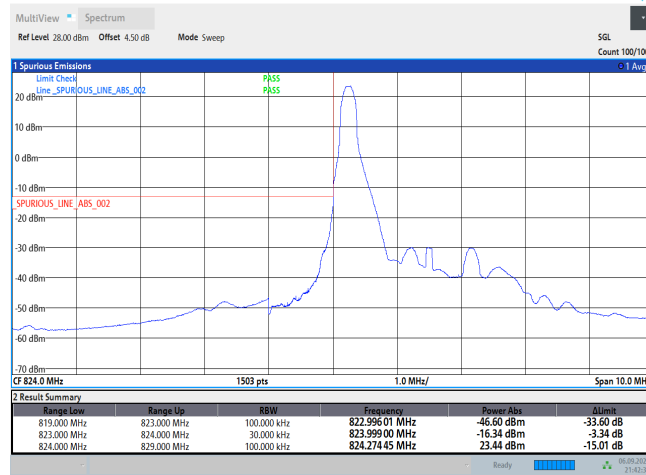
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Band5-3MHz-QPSK-20415-1RB#0



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



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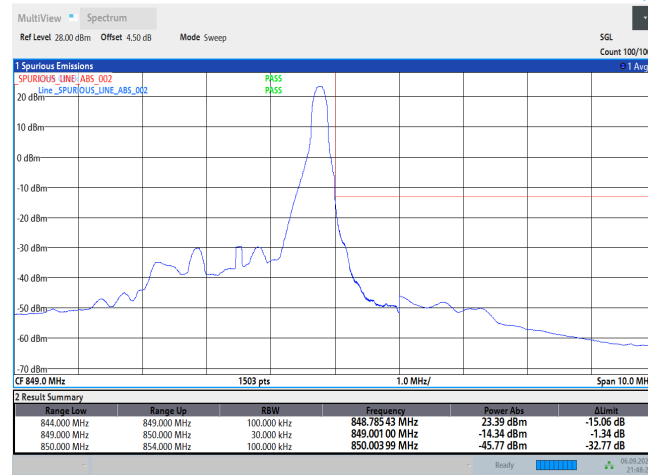
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Band5-3MHz-QPSK-20635-1RB#14



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



21:51:09 06.09.2023



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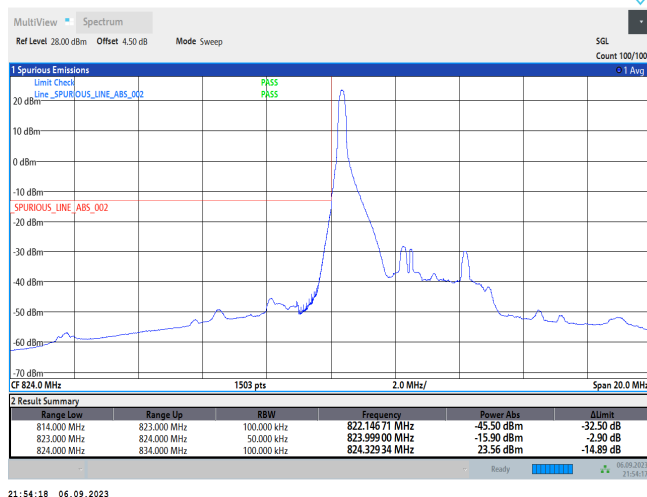
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Band5-5MHz-QPSK-20425-1RB#0



21:54:18 06.09.2023

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



21:57:02 06.09.2023



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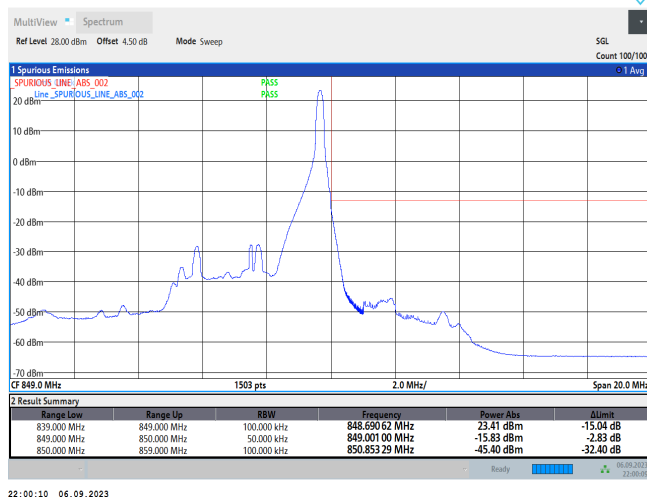
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Band5-5MHz-QPSK-20625-1RB#24



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



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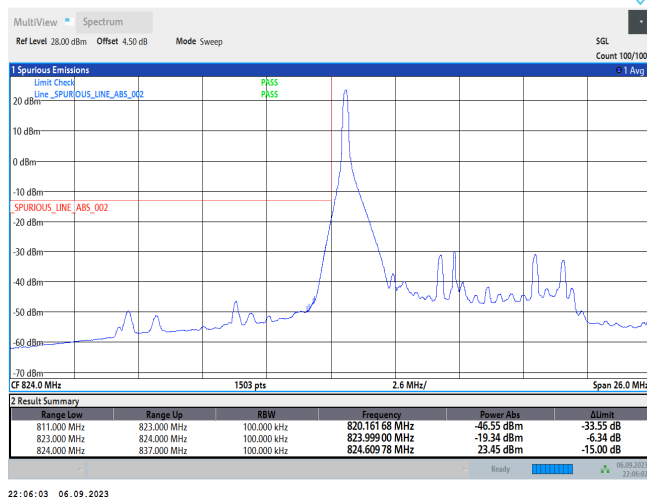
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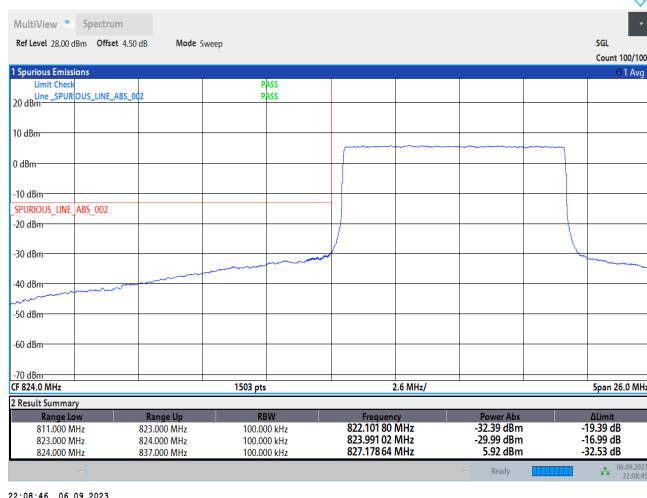
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Band5-10MHz-QPSK-20450-1RB#0



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



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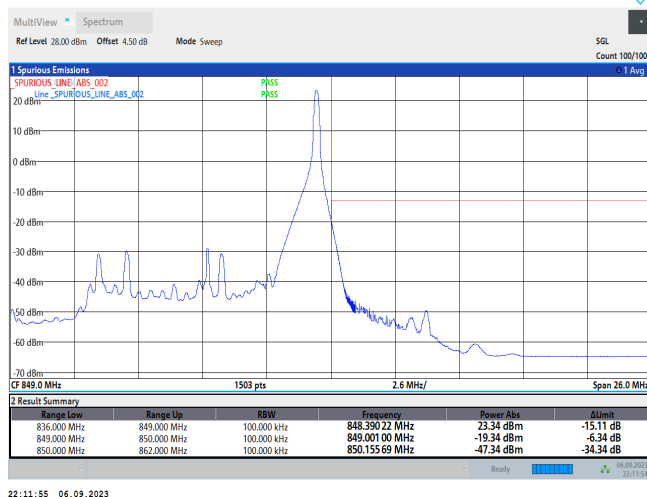
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Band5-10MHz-QPSK-20600-1RB#49



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



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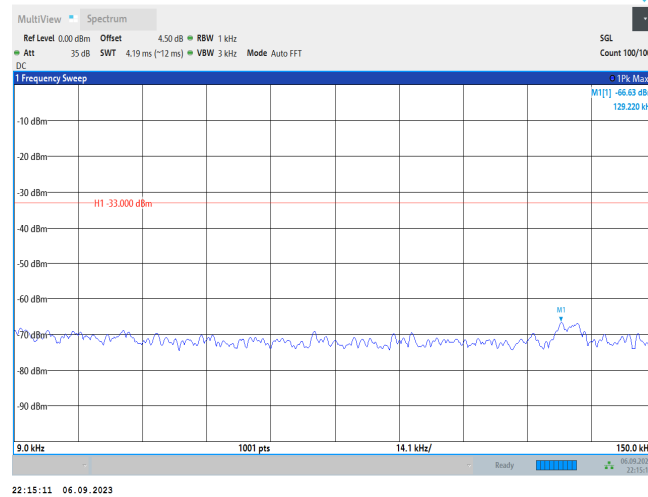
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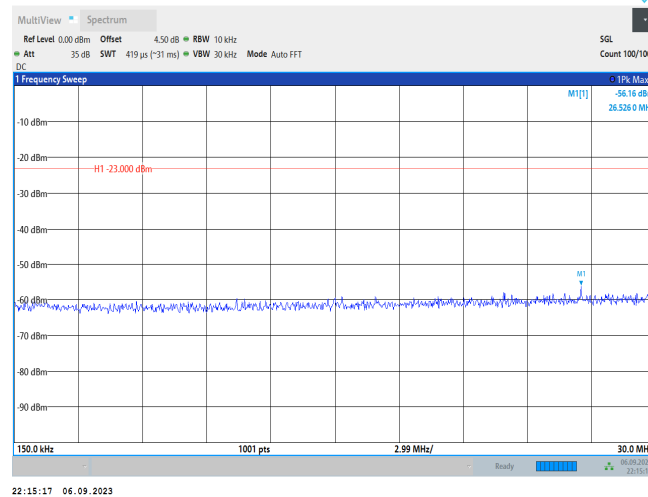
Conducted Spurious Emission

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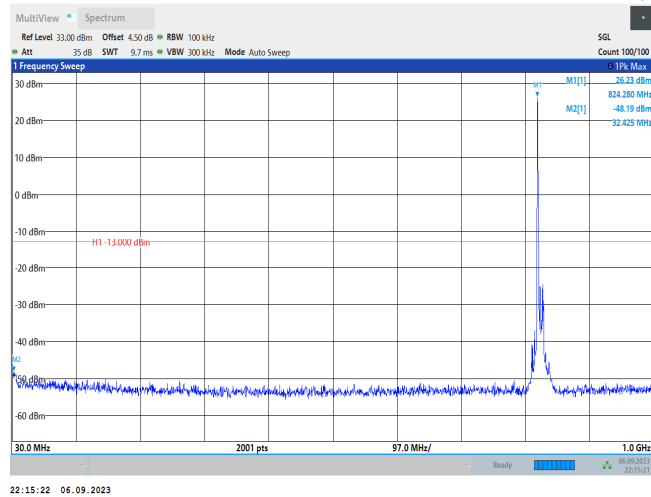
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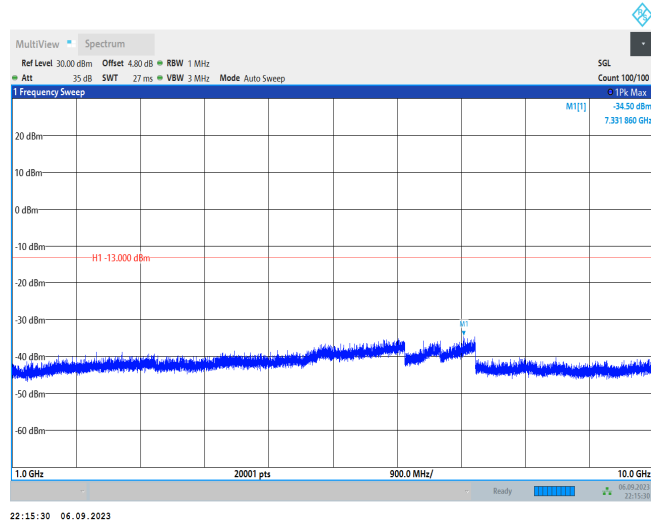
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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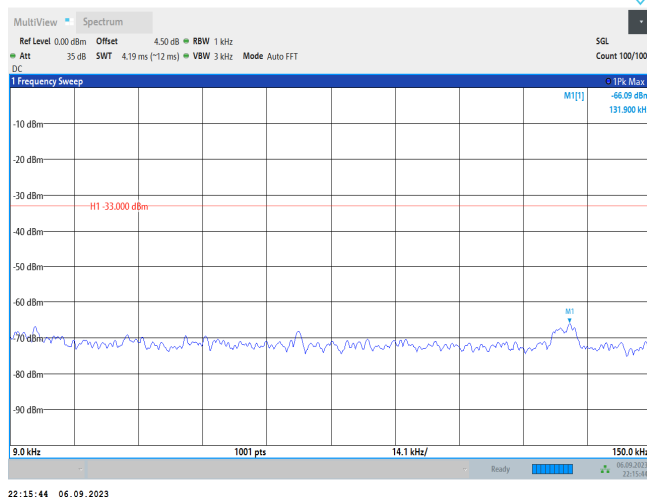
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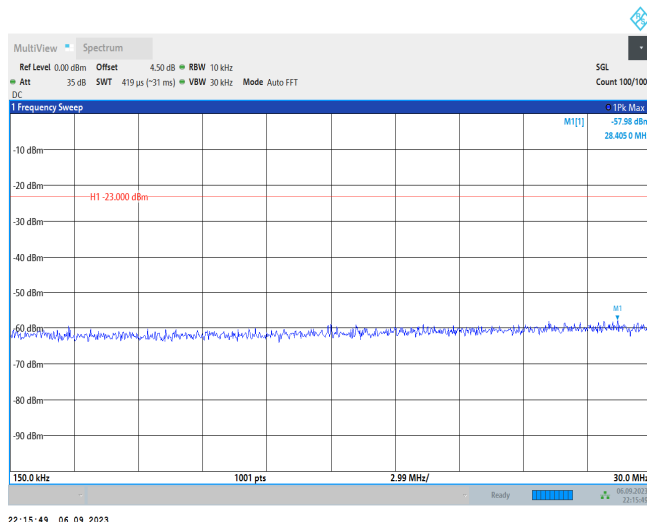
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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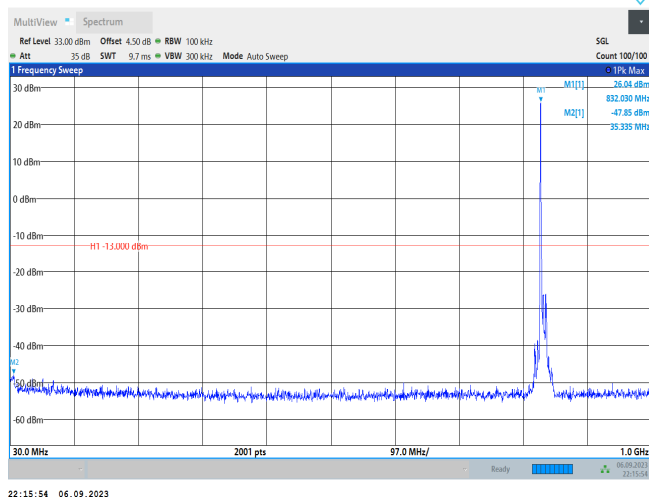
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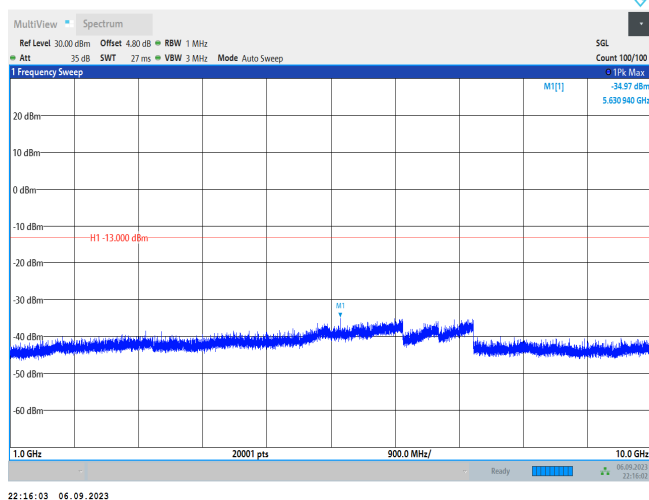
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

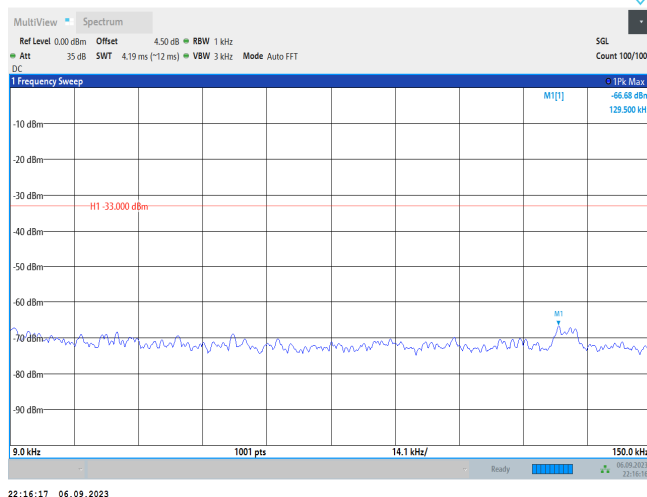


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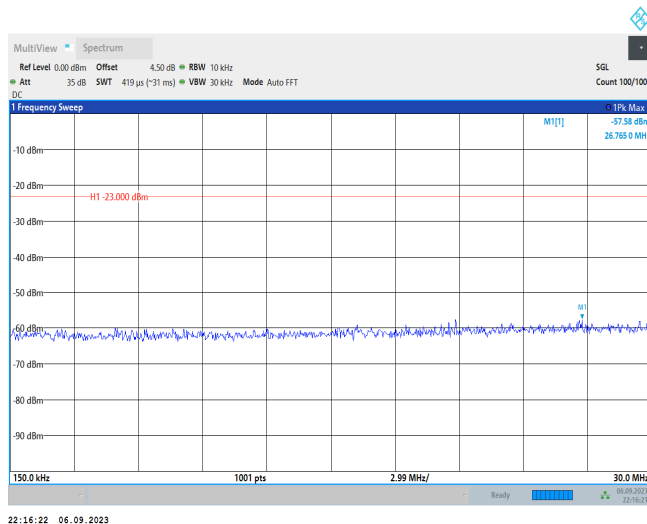
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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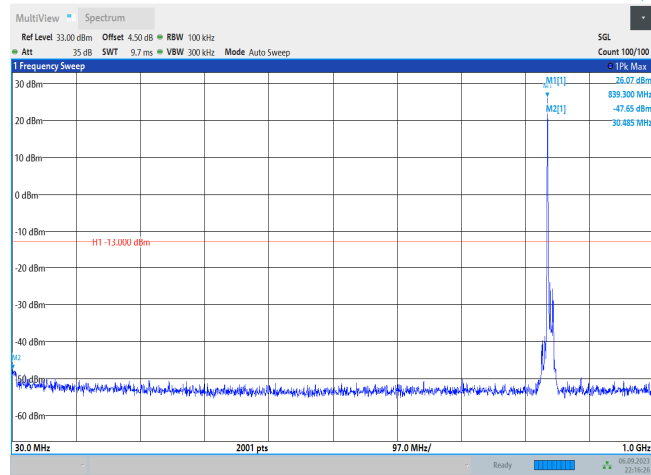
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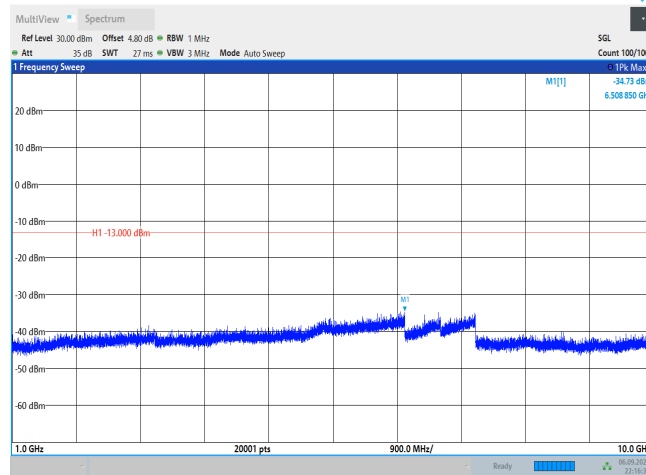
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_10MHz_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	46.23	-49.83	25.30	-73.56	-13.00	60.56	Vertical
2	2473.77	44.27	-49.05	27.27	-72.77	-13.00	59.77	Vertical
3	3298.36	44.54	-48.63	28.62	-70.73	-13.00	57.73	Vertical
4	4122.95	43.40	-48.28	29.62	-70.52	-13.00	57.52	Vertical
5	4947.54	42.95	-48.07	31.37	-69.01	-13.00	56.01	Vertical
6	5772.13	42.96	-47.66	32.75	-67.20	-13.00	54.20	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	46.84	-49.83	25.30	-72.95	-13.00	59.95	Horizontal
2	2473.77	44.83	-49.05	27.27	-72.21	-13.00	59.21	Horizontal
3	3298.36	45.03	-48.63	28.62	-70.24	-13.00	57.24	Horizontal
4	4122.95	43.87	-48.28	29.62	-70.05	-13.00	57.05	Horizontal
5	4947.54	43.32	-48.07	31.37	-68.64	-13.00	55.64	Horizontal
6	5772.13	43.34	-47.66	32.75	-66.82	-13.00	53.82	Horizontal



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Test Band = LTE Band 5_10MHz_ 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	1664.18	44.96	-49.79	25.36	-74.74	-13.00	61.74	Vertical
2	2496.27	44.45	-48.92	27.30	-72.43	-13.00	59.43	Vertical
3	3328.36	44.46	-48.65	28.63	-70.82	-13.00	57.82	Vertical
4	4160.45	43.58	-48.32	29.69	-70.31	-13.00	57.31	Vertical
5	4992.54	43.07	-47.97	31.48	-68.68	-13.00	55.68	Vertical
6	5824.63	43.38	-47.55	32.76	-66.66	-13.00	53.66	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	45.28	-49.79	25.36	-74.42	-13.00	61.42	Horizontal
2	2496.27	44.06	-48.92	27.30	-72.82	-13.00	59.82	Horizontal
3	3328.36	44.02	-48.65	28.63	-71.26	-13.00	58.26	Horizontal
4	4160.45	43.68	-48.32	29.69	-70.21	-13.00	57.21	Horizontal
5	4992.54	44.06	-47.97	31.48	-67.69	-13.00	54.69	Horizontal
6	5824.63	42.64	-47.55	32.76	-67.40	-13.00	54.40	Horizontal



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Test Band = LTE Band 5_10MHz_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	1679.18	44.66	-49.76	25.42	-74.94	-13.00	61.94	Vertical
2	2518.77	44.64	-48.95	27.35	-72.23	-13.00	59.23	Vertical
3	3358.36	44.18	-48.67	28.64	-71.10	-13.00	58.10	Vertical
4	4197.95	43.46	-48.36	29.76	-70.40	-13.00	57.40	Vertical
5	5037.54	43.78	-47.94	31.59	-67.83	-13.00	54.83	Vertical
6	5887.13	43.24	-47.11	32.78	-66.35	-13.00	53.35	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	44.69	-49.76	25.42	-74.91	-13.00	61.91	Horizontal
2	2518.77	44.13	-48.95	27.35	-72.74	-13.00	59.74	Horizontal
3	3358.36	44.21	-48.67	28.64	-71.07	-13.00	58.07	Horizontal
4	4197.95	43.39	-48.36	29.76	-70.47	-13.00	57.47	Horizontal
5	5037.54	43.61	-47.94	31.59	-68.00	-13.00	55.00	Horizontal
6	5887.13	43.40	-47.11	32.78	-66.19	-13.00	53.19	Horizontal



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Test Band = LTE UL CA 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	3404.18	44.20	-48.40	28.66	-70.80	-13.00	57.80	Horizontal
2	5106.27	43.31	-47.82	31.76	-68.02	-13.00	55.02	Horizontal
3	6808.36	43.18	-46.88	35.18	-63.78	-13.00	50.78	Horizontal
4	8510.45	40.87	-44.25	36.92	-61.72	-13.00	48.72	Horizontal
5	10212.54	37.29	-42.01	38.69	-61.29	-13.00	48.29	Horizontal
6	11914.63	37.13	-39.90	39.22	-58.82	-13.00	45.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.18	43.87	-48.40	28.66	-71.13	-13.00	58.13	Vertical
2	5106.27	43.43	-47.82	31.76	-67.90	-13.00	54.90	Vertical
3	6808.36	43.43	-46.88	35.18	-63.53	-13.00	50.53	Vertical
4	8510.45	40.69	-44.25	36.92	-61.90	-13.00	48.90	Vertical
5	10212.54	37.61	-42.01	38.69	-60.97	-13.00	47.97	Vertical
6	11914.63	37.13	-39.90	39.22	-58.82	-13.00	45.82	Vertical



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Test Band = LTE UL CA 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	3454.18	44.22	-48.34	28.68	-70.70	-13.00	57.70	Horizontal
2	5181.27	43.61	-47.88	31.94	-67.59	-13.00	54.59	Horizontal
3	6908.36	43.07	-46.72	35.40	-63.51	-13.00	50.51	Horizontal
4	8635.45	40.04	-44.02	37.09	-62.15	-13.00	49.15	Horizontal
5	10362.54	39.19	-41.21	38.83	-58.45	-13.00	45.45	Horizontal
6	12089.63	37.57	-39.61	39.15	-58.15	-13.00	45.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.18	44.32	-48.34	28.68	-70.60	-13.00	57.60	Vertical
2	5181.27	43.77	-47.88	31.94	-67.43	-13.00	54.43	Vertical
3	6908.36	43.62	-46.72	35.40	-62.96	-13.00	49.96	Vertical
4	8635.45	40.49	-44.02	37.09	-61.70	-13.00	48.70	Vertical
5	10362.54	38.50	-41.21	38.83	-59.14	-13.00	46.14	Vertical
6	12089.63	37.35	-39.61	39.15	-58.37	-13.00	45.37	Vertical



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Test Band = LTE UL CA 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	3504.18	44.20	-48.29	28.71	-70.64	-13.00	57.64	Horizontal
2	5256.27	43.76	-47.83	32.12	-67.21	-13.00	54.21	Horizontal
3	7008.36	43.07	-46.53	35.62	-63.10	-13.00	50.10	Horizontal
4	8760.45	40.79	-44.04	37.27	-61.25	-13.00	48.25	Horizontal
5	10512.54	38.44	-40.73	38.96	-58.59	-13.00	45.59	Horizontal
6	12262.63	37.02	-39.76	39.04	-58.96	-13.00	45.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.18	44.23	-48.29	28.71	-70.61	-13.00	57.61	Vertical
2	5256.27	43.86	-47.83	32.12	-67.11	-13.00	54.11	Vertical
3	7008.36	43.95	-46.53	35.62	-62.22	-13.00	49.22	Vertical
4	8760.45	41.41	-44.04	37.27	-60.63	-13.00	47.63	Vertical
5	10512.54	38.29	-40.73	38.96	-58.74	-13.00	45.74	Vertical
6	12262.63	36.99	-39.76	39.04	-58.99	-13.00	45.99	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

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	-3.40	-0.004065	±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	-2.90	-0.003467	±2.5	PASS

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	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.30	-0.002750	±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	-2.70	-0.003228	±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	-1.10	-0.001315	±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	-1.40	-0.001674	±2.5	PASS

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