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Appendix B.3

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	24.43	22.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.53	23.08	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.36	22.91	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.38	21.93	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.35	22.9	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.37	22.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.52	23.07	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.42	21.97	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.32	22.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.26	22.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.45	23	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.32	21.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.54	22.09	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.53	22.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.45	22	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.53	21.08	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.56	22.11	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.47	22.02	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.61	22.16	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.47	21.02	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.49	22.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.44	21.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.44	21.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.48	21.03	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.64	21.19	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.63	21.18	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.65	21.2	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.48	20.03	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.52	21.07	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.63	21.18	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.45	21	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.41	19.96	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.74	21.29	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.61	21.16	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.51	21.06	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.44	19.99	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.51	18.06	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.69	18.24	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.57	18.12	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.47	18.02	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.45	18	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.56	18.11	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.52	18.07	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.38	17.93	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.54	18.09	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.63	18.18	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.63	18.18	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.42	17.97	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.33	22.88	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.41	22.96	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.48	23.03	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.53	22.08	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.23	22.78	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.46	23.01	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.35	22.9	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.41	21.96	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.21	22.76	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.34	22.89	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.42	22.97	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	23.48	22.03	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.53	22.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.03	22.58	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.54	22.09	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.54	21.09	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.47	22.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.76	22.31	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.37	21.92	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.42	20.97	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.57	22.12	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.46	22.01	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.45	22	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.40	20.95	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.53	21.08	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.74	21.29	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.46	21.01	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.53	20.08	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.57	21.12	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.69	21.24	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.55	21.1	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.48	20.03	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.51	21.06	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.46	21.01	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.50	21.05	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.46	20.01	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.60	18.15	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.67	18.22	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.37	17.92	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	19.55	18.1	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.50	18.05	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.50	18.05	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.56	18.11	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#0	19.41	17.96	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.55	18.1	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.39	17.94	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.48	18.03	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.46	23.01	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.54	23.09	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.39	22.94	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.51	22.06	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.35	22.9	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.50	23.05	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.44	22.99	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.51	22.06	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.25	22.8	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.43	22.98	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.43	22.98	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.50	22.05	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.66	22.21	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.65	22.2	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.71	22.26	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.51	21.06	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.73	22.28	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.61	22.16	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.50	22.05	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.42	20.97	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.79	22.34	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.72	22.27	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.66	22.21	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.49	21.04	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.64	21.19	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.79	21.34	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.49	21.04	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#0	22.46	21.01	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.77	21.32	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.63	21.18	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.48	20.03	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.31	20.86	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.58	21.13	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.44	20.99	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.49	20.04	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.57	18.12	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	19.62	18.17	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.51	18.06	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	19.54	18.09	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.53	18.08	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.64	18.19	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.50	18.05	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	19.51	18.06	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.51	18.06	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.68	18.23	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.54	18.09	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.51	18.06	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.53	23.08	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.51	23.06	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.49	23.04	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.66	22.21	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.02	22.57	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.53	23.08	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.55	23.1	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.62	22.17	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.12	22.67	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.65	23.2	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.47	23.02	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	23.63	22.18	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.77	22.32	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.63	22.18	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.67	22.22	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.64	21.19	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.79	22.34	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.68	22.23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.79	22.34	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.70	21.25	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.90	22.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.83	22.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.72	22.27	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.66	21.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.78	21.33	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.83	21.38	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.57	21.12	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.66	20.21	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.63	21.18	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.87	21.42	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.76	21.31	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.70	20.25	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.55	21.1	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.71	21.26	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.89	21.44	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.61	20.16	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	19.52	18.07	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.67	18.22	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	19.57	18.12	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	19.65	18.2	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	19.89	18.44	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.64	18.19	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	19.63	18.18	38.45	PASS



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Band5	10MHz	256QAM	20525	50RB#0	19.71	18.26	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.66	18.21	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.72	18.27	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.67	18.22	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	19.61	18.16	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	1.4MHz	QPSK	20407	1RB#0	3.76	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.70	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.66	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.50	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.48	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.30	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.70	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.92	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.52	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.70	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.42	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.46	13	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	5.52	13	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	6.64	13	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	5.36	13	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	6.46	13	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	5.28	13	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	6.28	13	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	7.14	13	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	6.92	13	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	6.96	13	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	6.82	13	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	7.00	13	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	6.74	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.88	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.64	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.74	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.52	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.64	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.38	13	PASS



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Band5	3MHz	16QAM	20415	1RB#0	4.94	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.98	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.76	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.78	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.80	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.58	13	PASS
Band5	3MHz	64QAM	20415	1RB#0	5.94	13	PASS
Band5	3MHz	64QAM	20415	15RB#0	6.62	13	PASS
Band5	3MHz	64QAM	20525	1RB#0	5.62	13	PASS
Band5	3MHz	64QAM	20525	15RB#0	6.46	13	PASS
Band5	3MHz	64QAM	20635	1RB#0	5.64	13	PASS
Band5	3MHz	64QAM	20635	15RB#0	6.32	13	PASS
Band5	3MHz	256QAM	20415	1RB#0	6.92	13	PASS
Band5	3MHz	256QAM	20415	15RB#0	6.86	13	PASS
Band5	3MHz	256QAM	20525	1RB#0	6.98	13	PASS
Band5	3MHz	256QAM	20525	15RB#0	6.94	13	PASS
Band5	3MHz	256QAM	20635	1RB#0	7.14	13	PASS
Band5	3MHz	256QAM	20635	15RB#0	6.96	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.18	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.64	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.94	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.50	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.86	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.48	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.06	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.78	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.48	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.78	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.44	13	PASS
Band5	5MHz	64QAM	20425	1RB#0	5.82	13	PASS
Band5	5MHz	64QAM	20425	25RB#0	6.54	13	PASS
Band5	5MHz	64QAM	20525	1RB#0	5.52	13	PASS
Band5	5MHz	64QAM	20525	25RB#0	6.42	13	PASS
Band5	5MHz	64QAM	20625	1RB#0	5.58	13	PASS
Band5	5MHz	64QAM	20625	25RB#0	6.32	13	PASS
Band5	5MHz	256QAM	20425	1RB#0	6.94	13	PASS



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Band5	5MHz	256QAM	20525	1RB#0	6.88	13	PASS
Band5	5MHz	256QAM	20525	25RB#0	6.82	13	PASS
Band5	5MHz	256QAM	20625	1RB#0	6.94	13	PASS
Band5	5MHz	256QAM	20625	25RB#0	6.80	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.14	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.60	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.96	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.58	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.98	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.62	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.08	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.66	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.98	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.60	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.90	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.66	13	PASS
Band5	10MHz	64QAM	20450	1RB#0	5.90	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.36	13	PASS
Band5	10MHz	64QAM	20525	1RB#0	5.90	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.34	13	PASS
Band5	10MHz	64QAM	20600	1RB#0	5.86	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.30	13	PASS
Band5	10MHz	256QAM	20450	1RB#0	7.04	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.78	13	PASS
Band5	10MHz	256QAM	20525	1RB#0	6.94	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.74	13	PASS
Band5	10MHz	256QAM	20600	1RB#0	6.84	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.80	13	PASS



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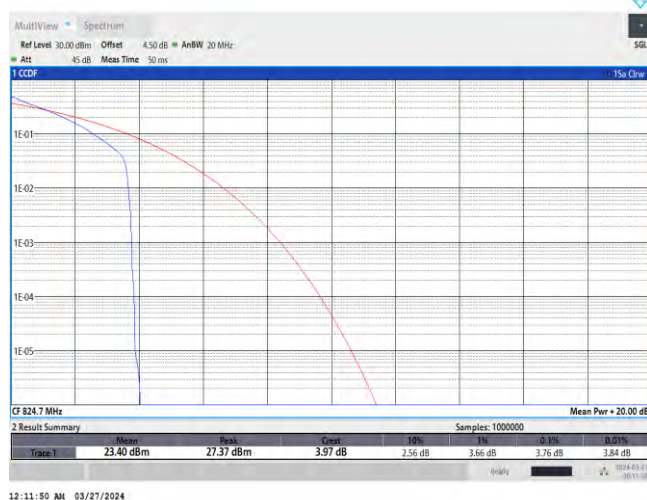
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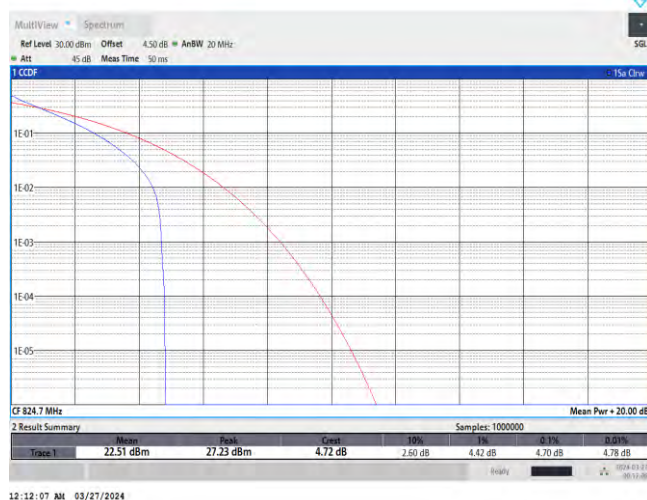
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Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0



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



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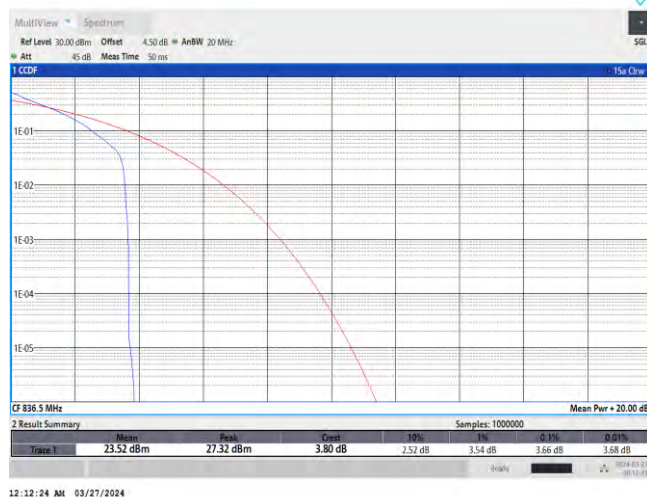
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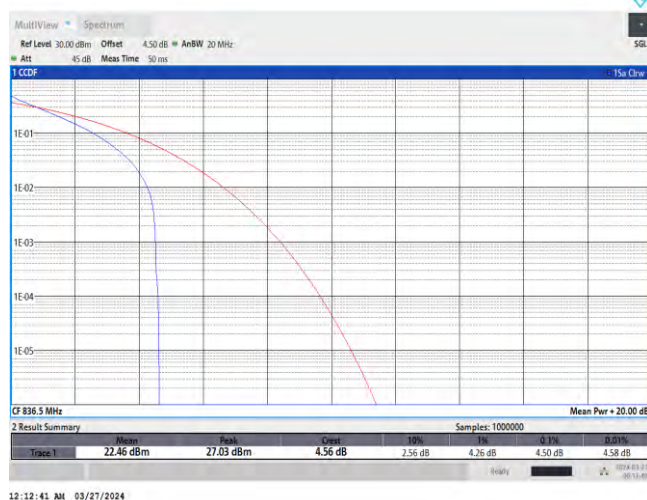
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Band5-1.4MHz-QPSK-20525-1RB#0



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



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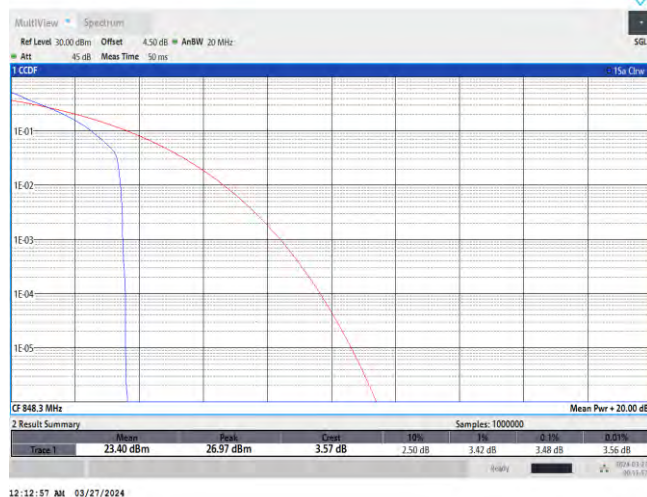
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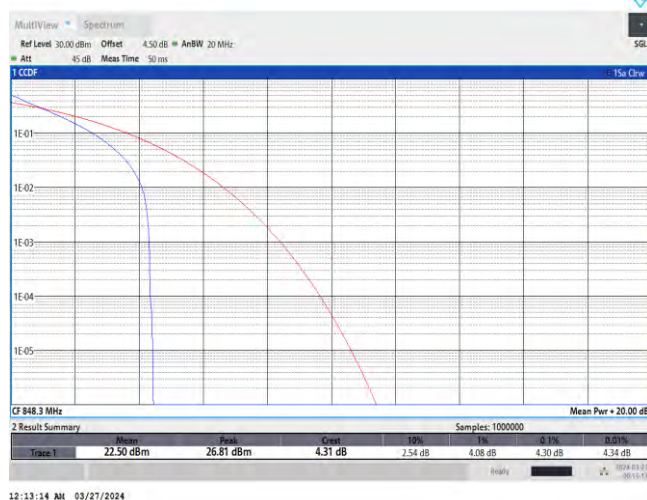
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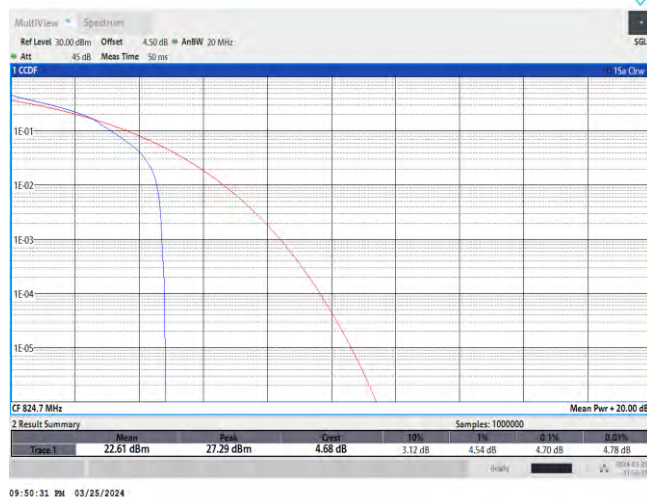
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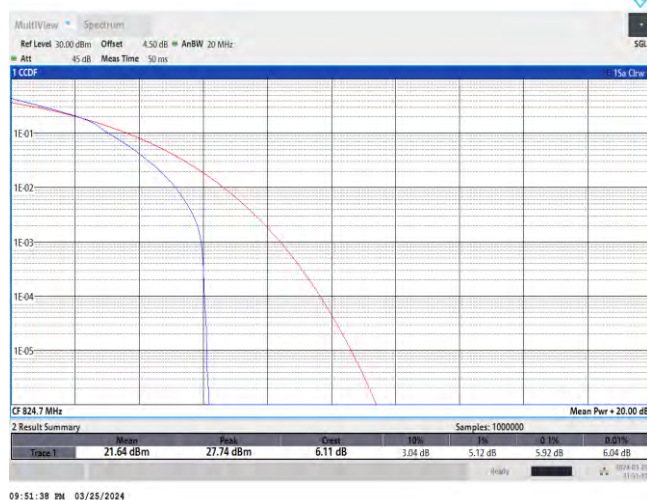
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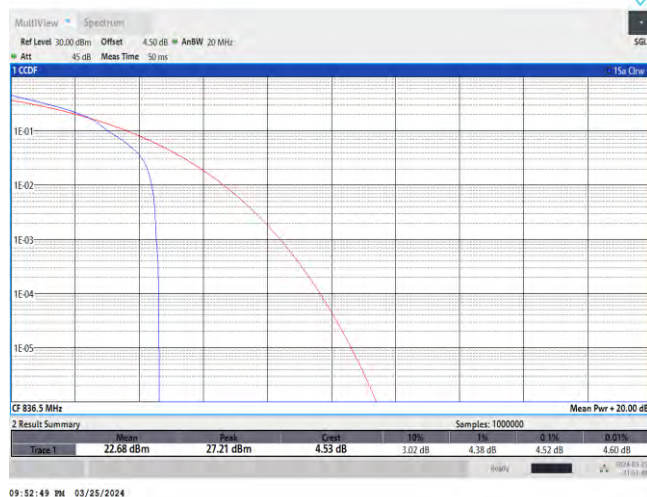
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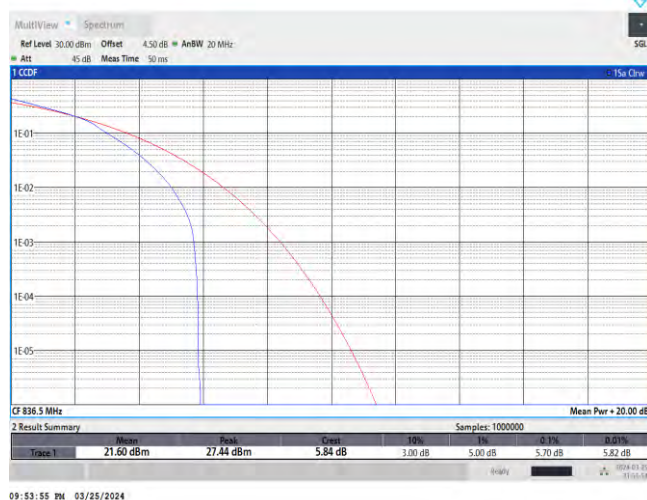
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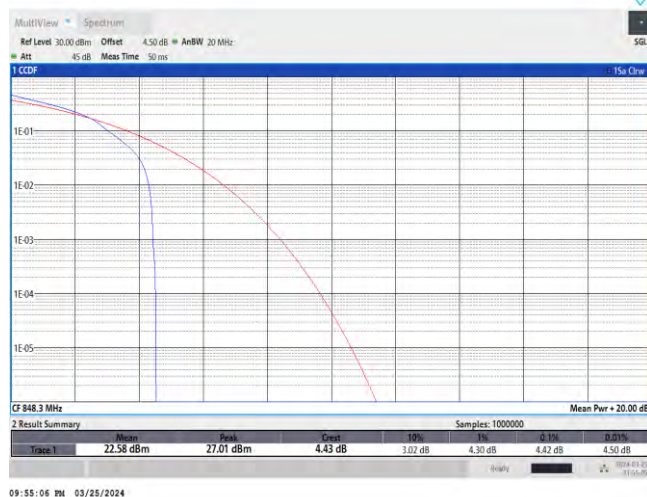
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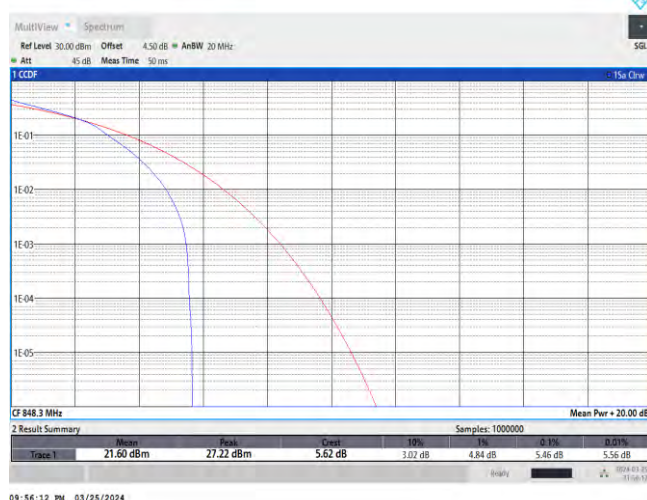
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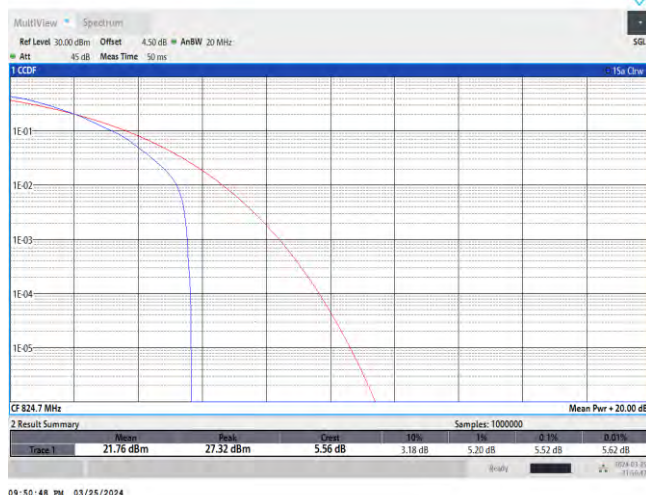
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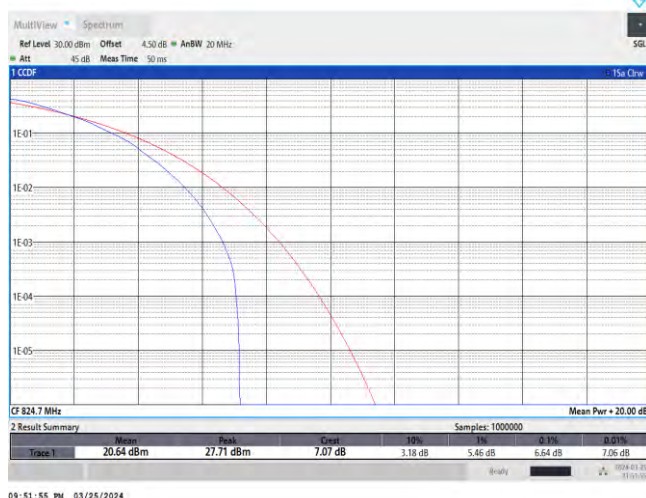
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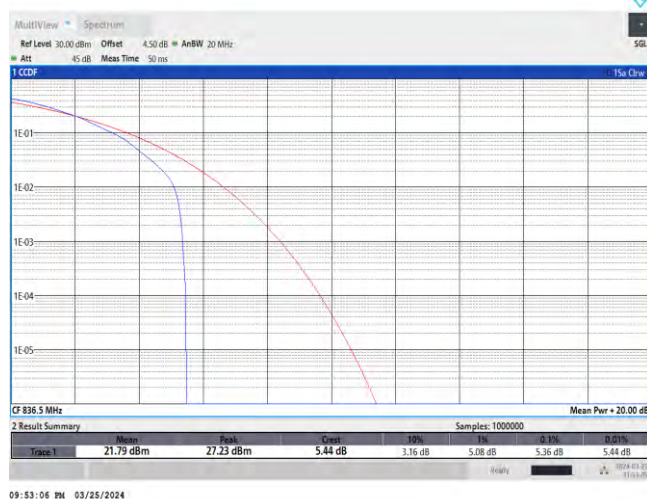
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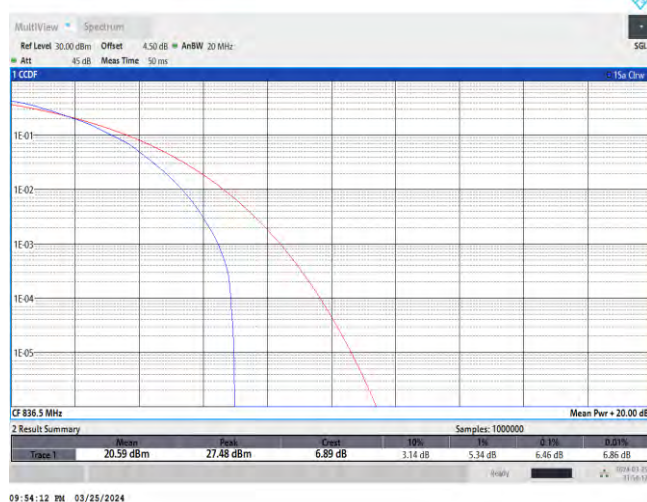
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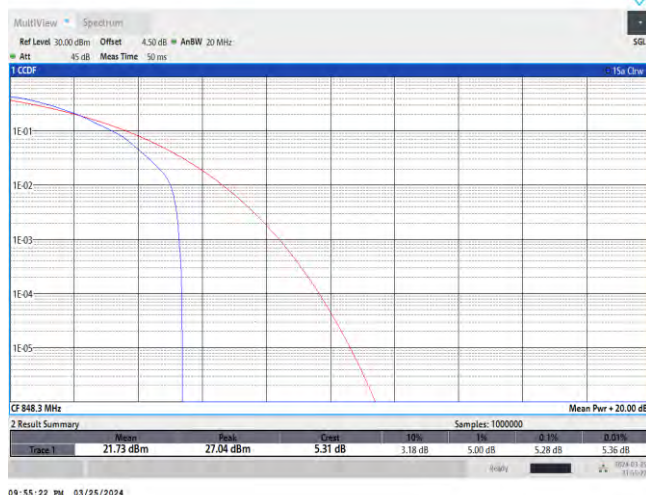
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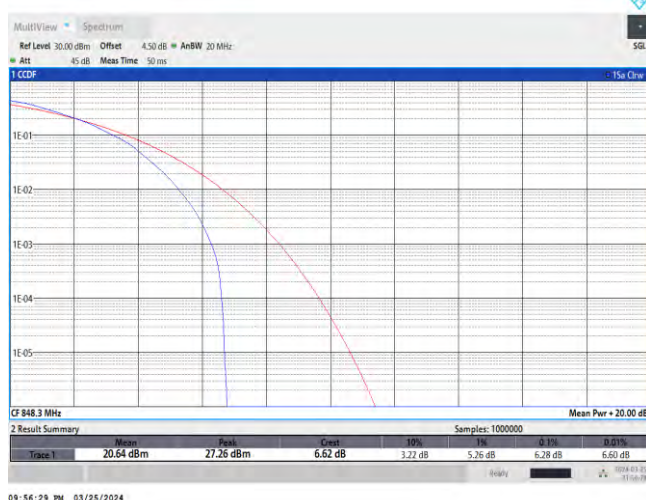
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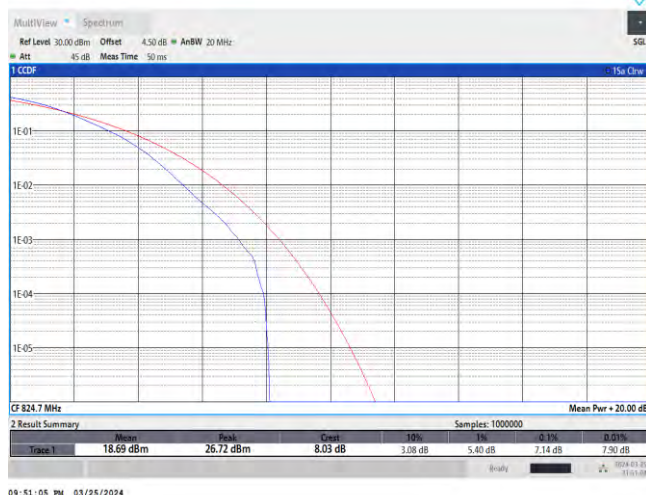
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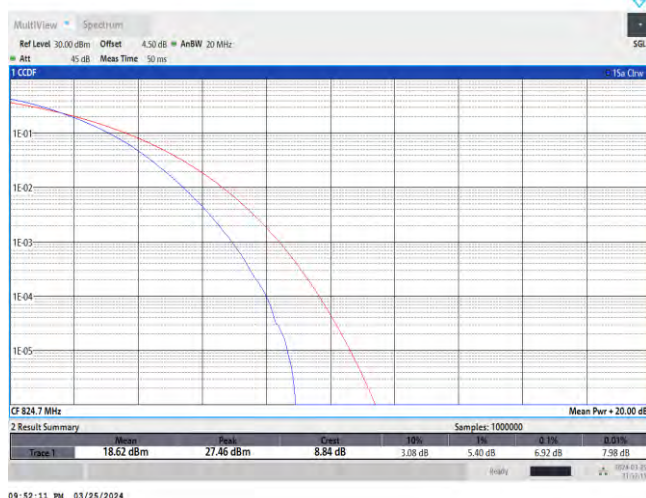
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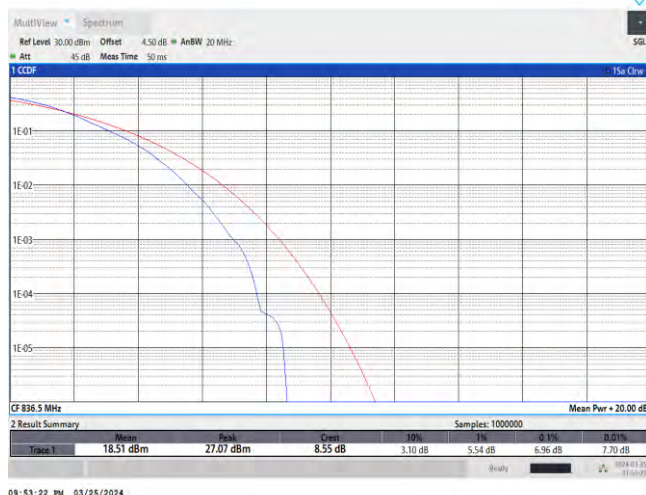
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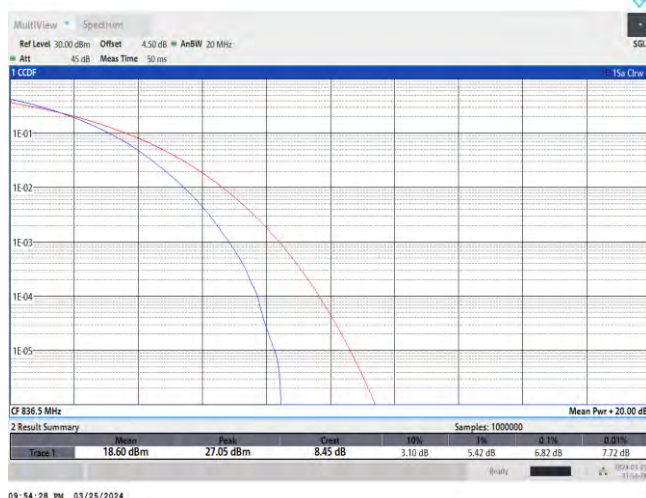
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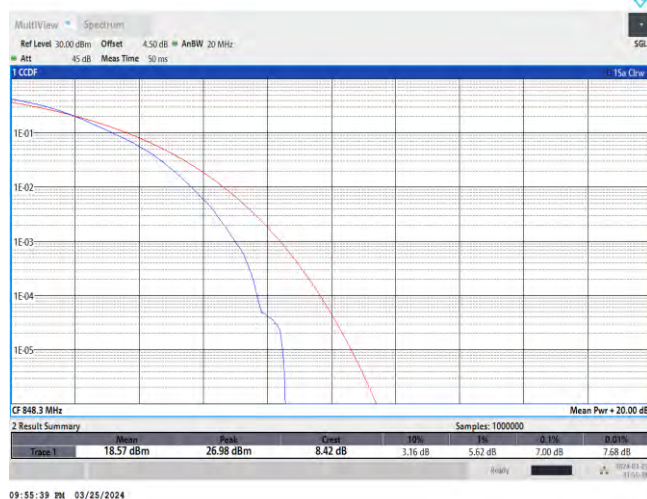
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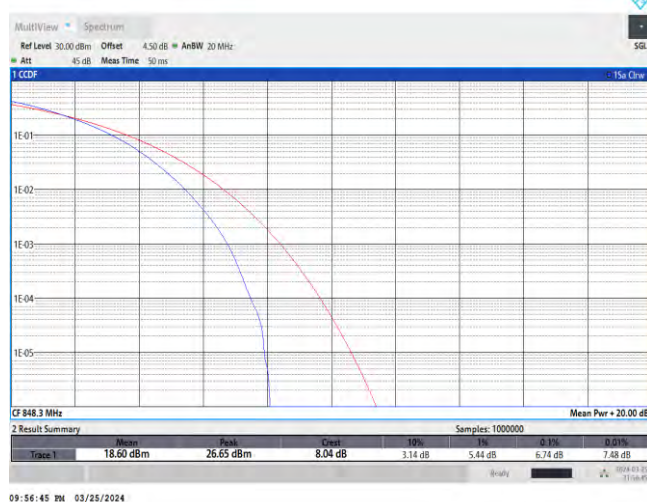
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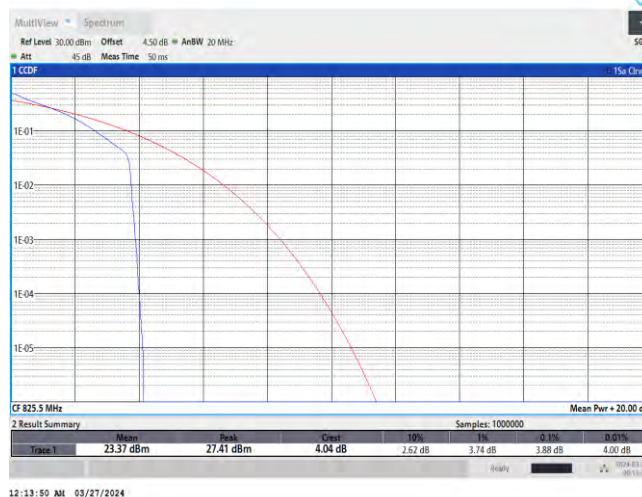
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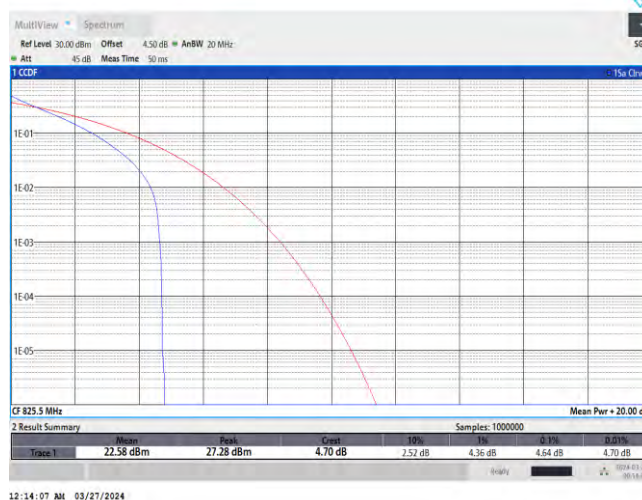
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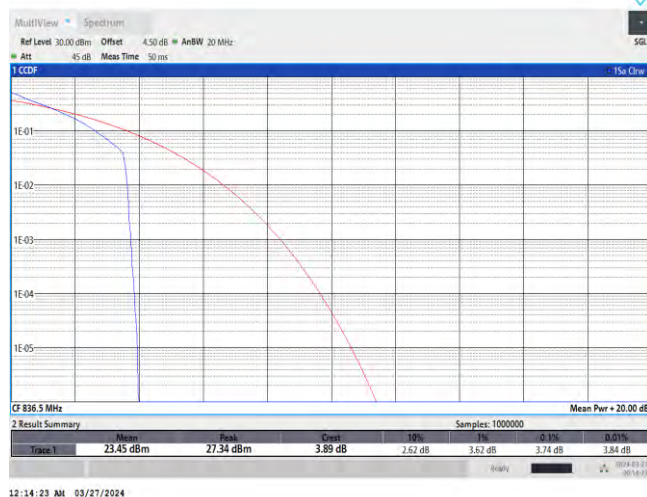
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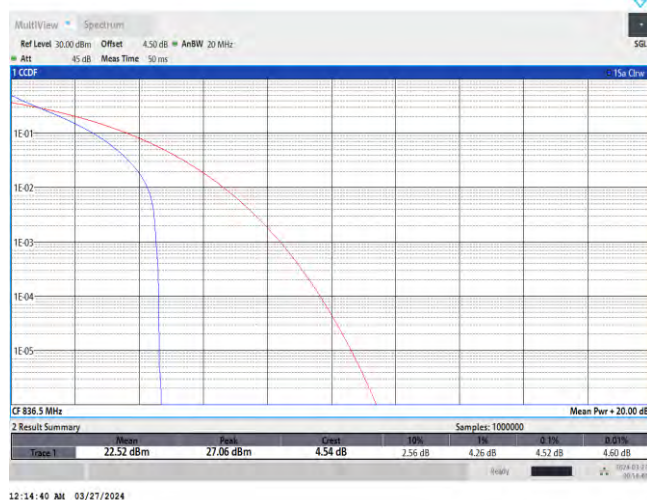
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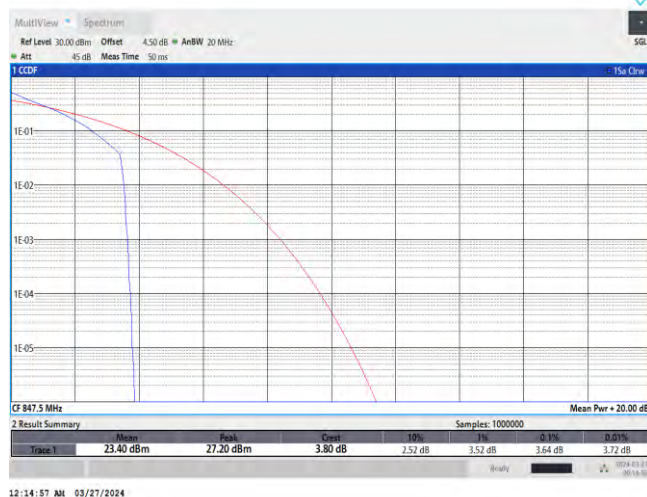
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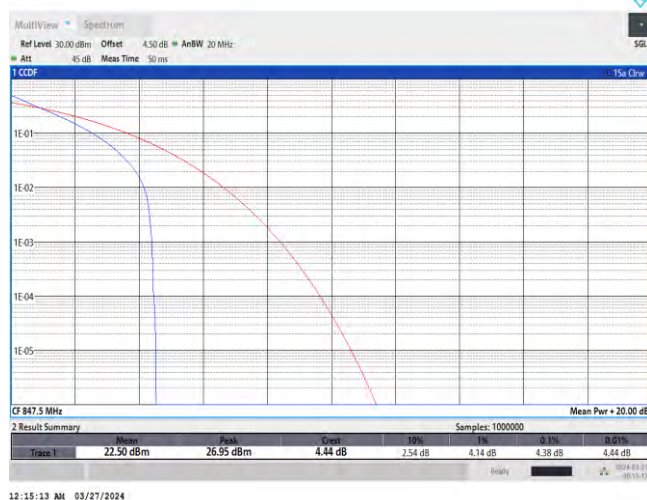
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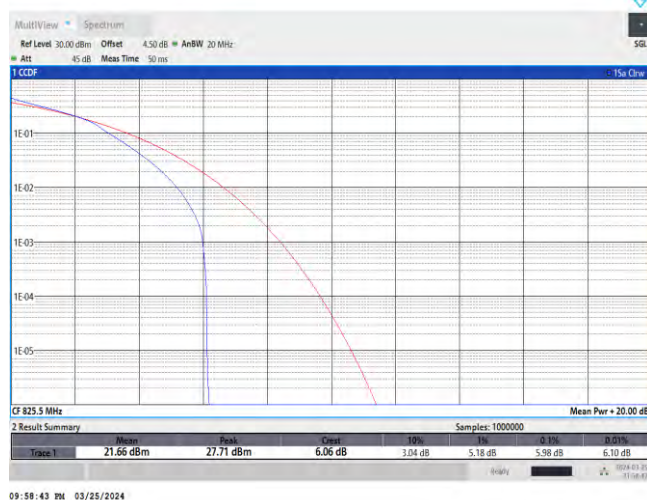
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Band5-3MHz-16QAM-20415-15RB#0



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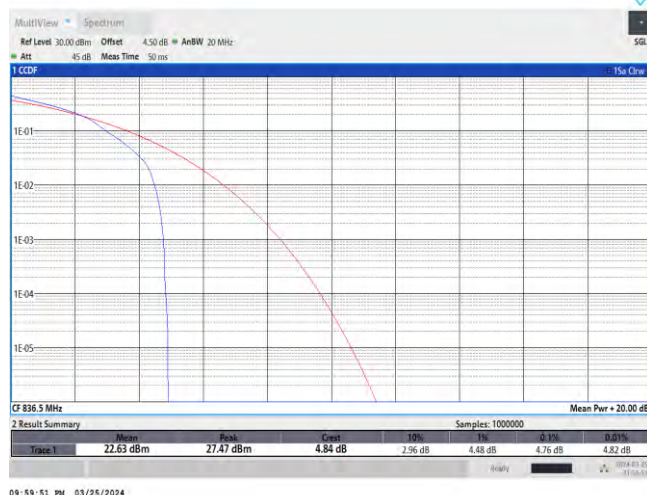
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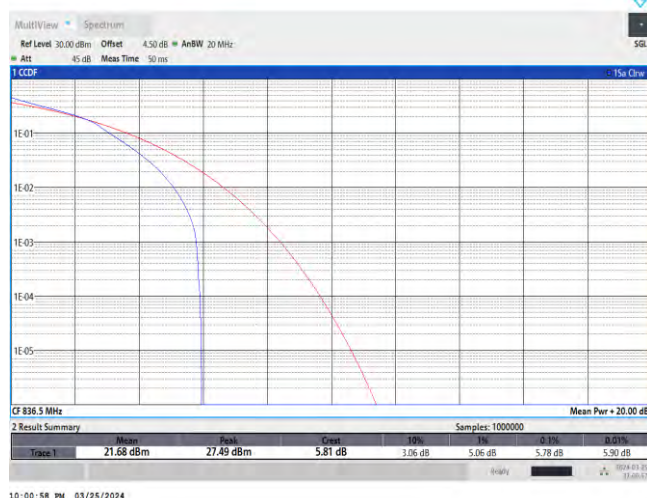
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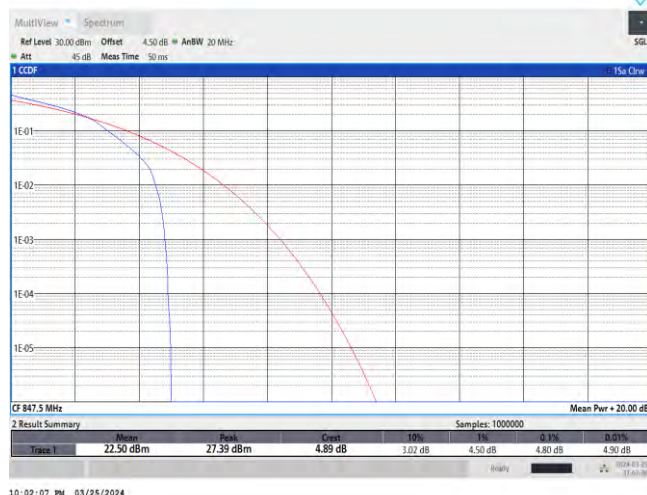
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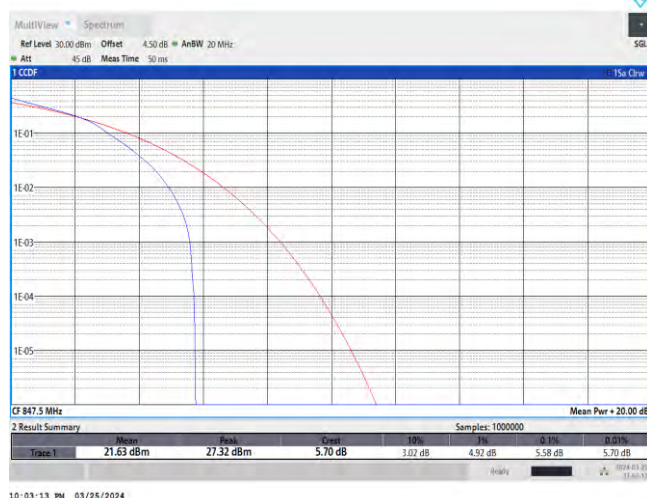
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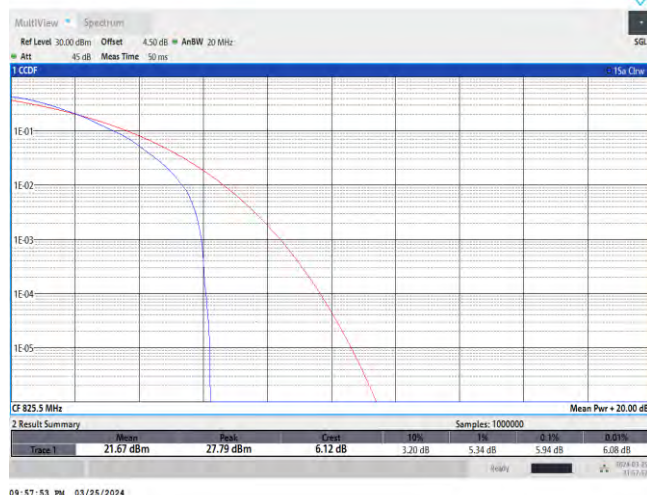
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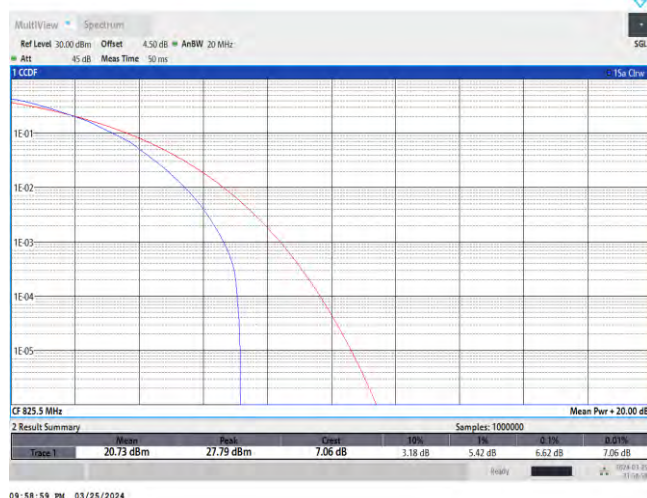
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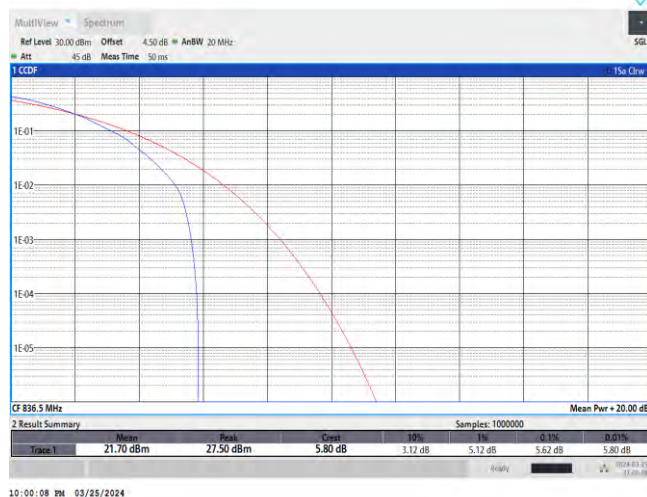
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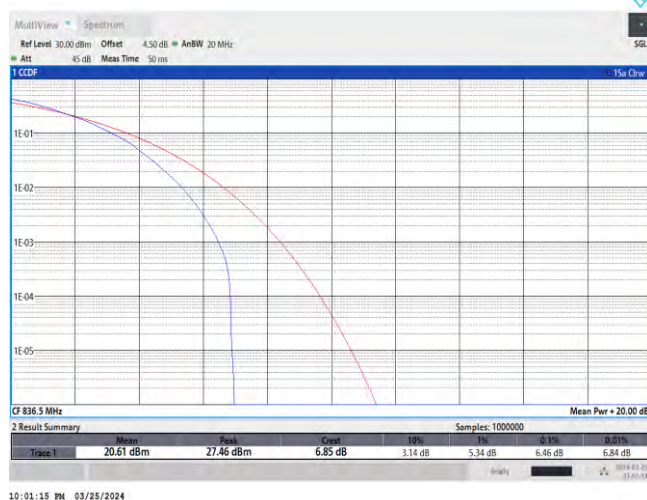
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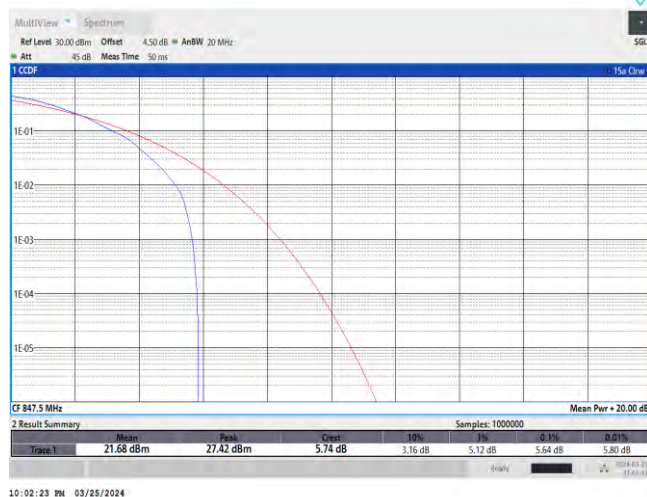
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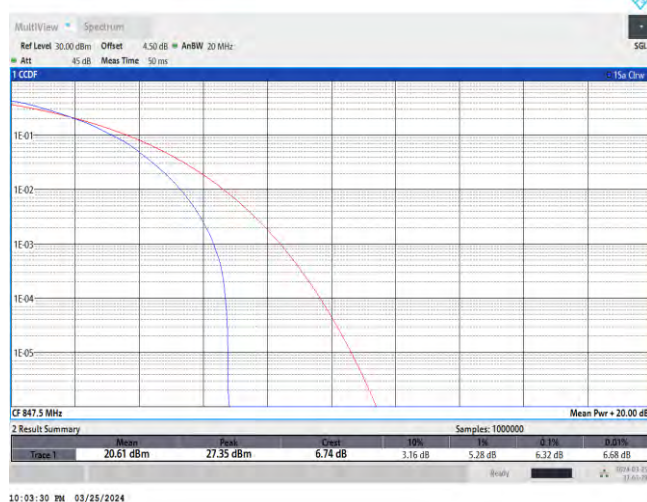
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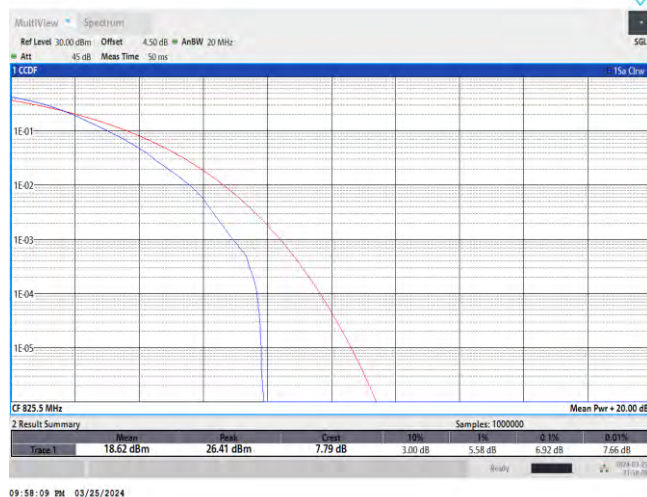
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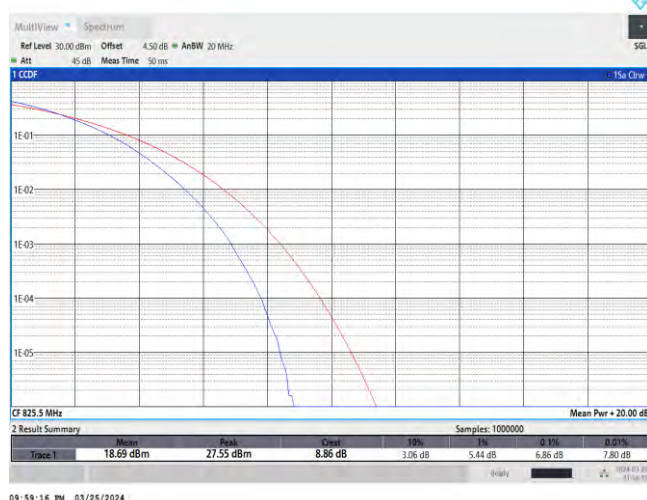
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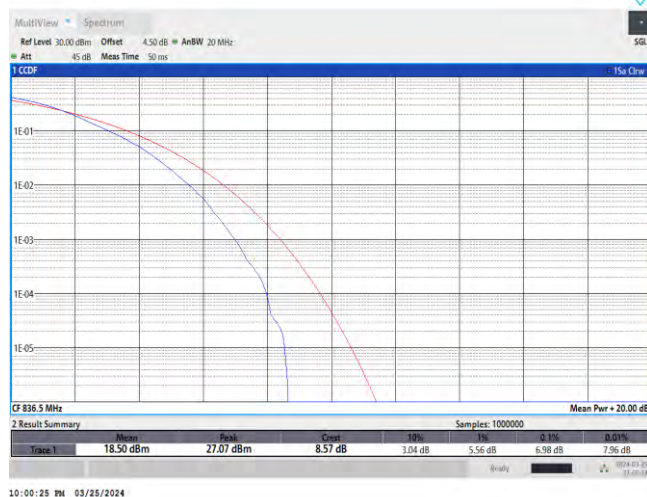
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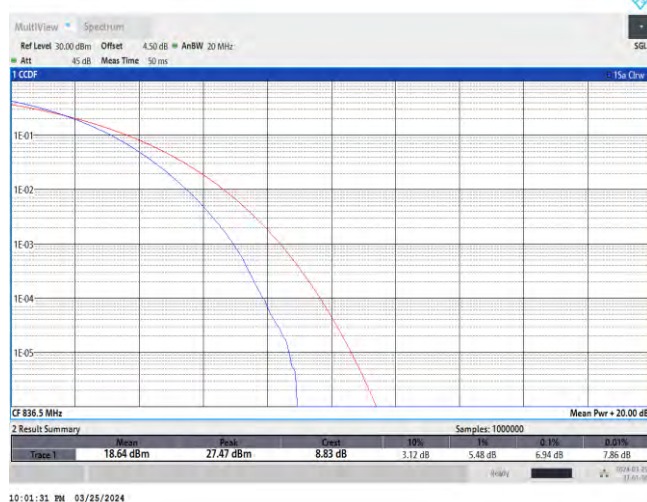
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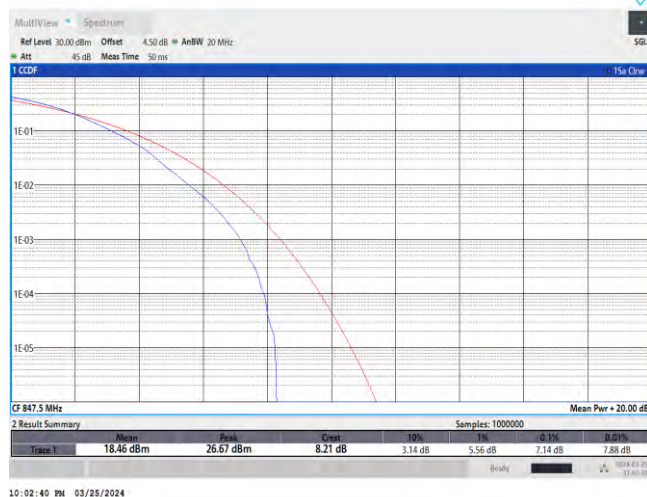
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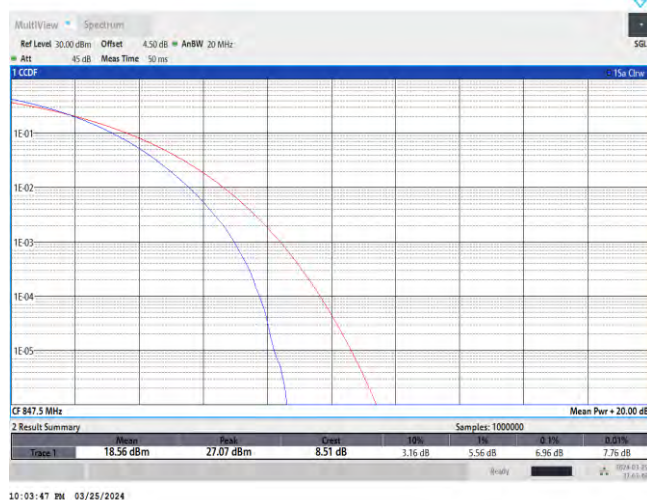
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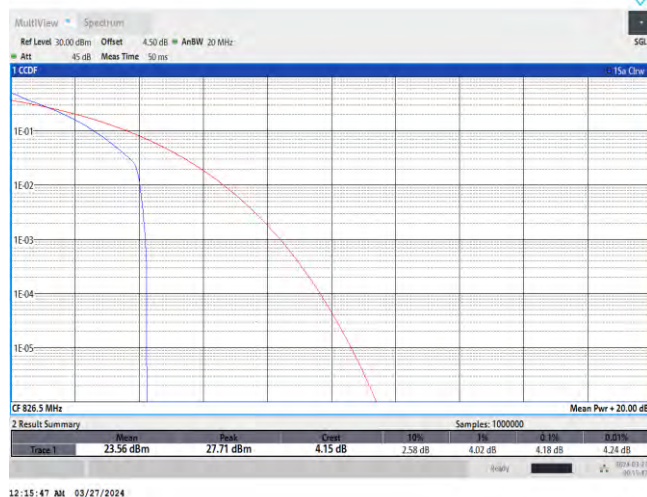
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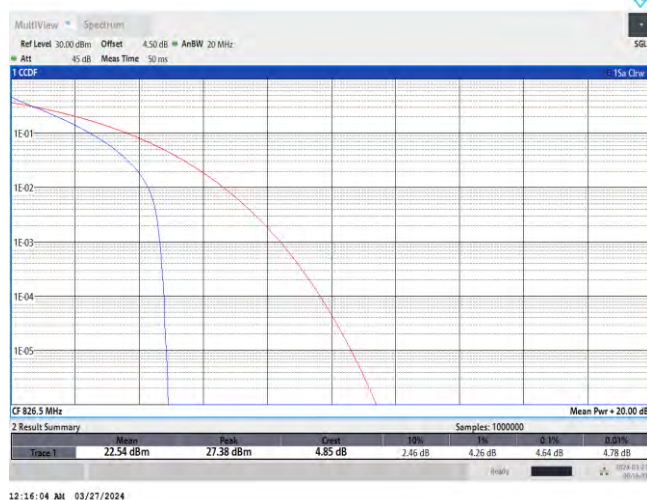
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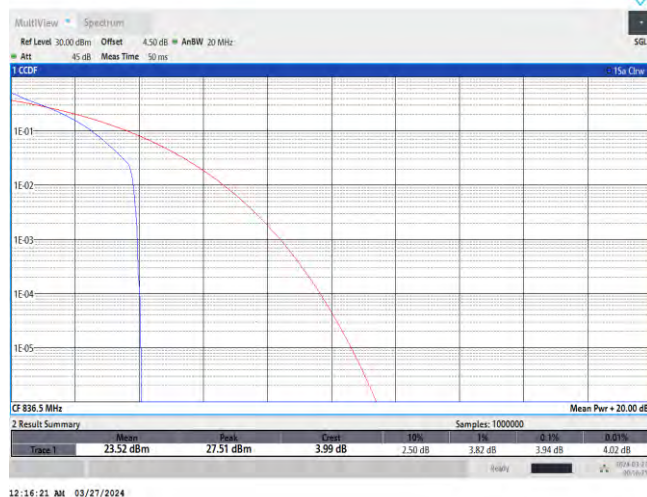
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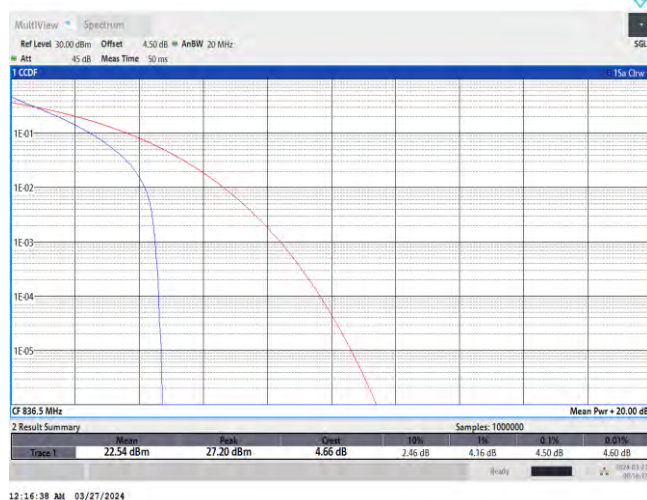
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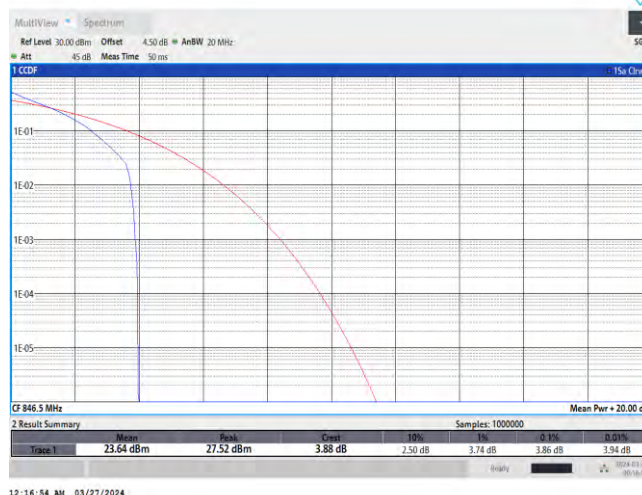
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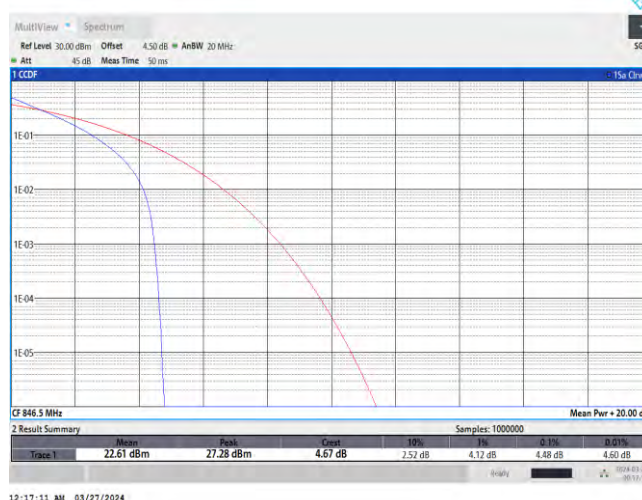
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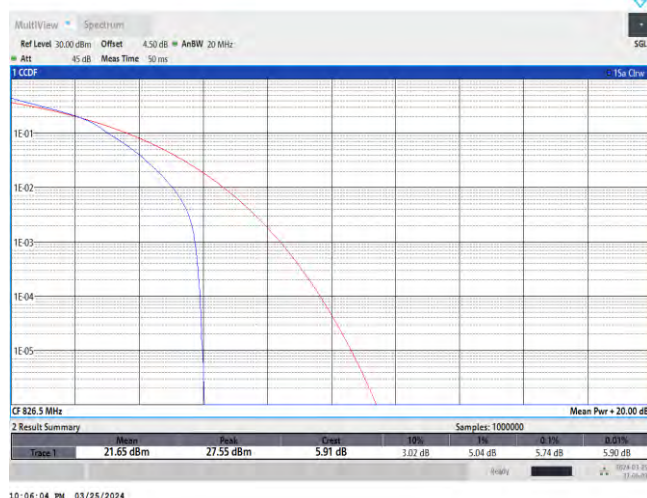
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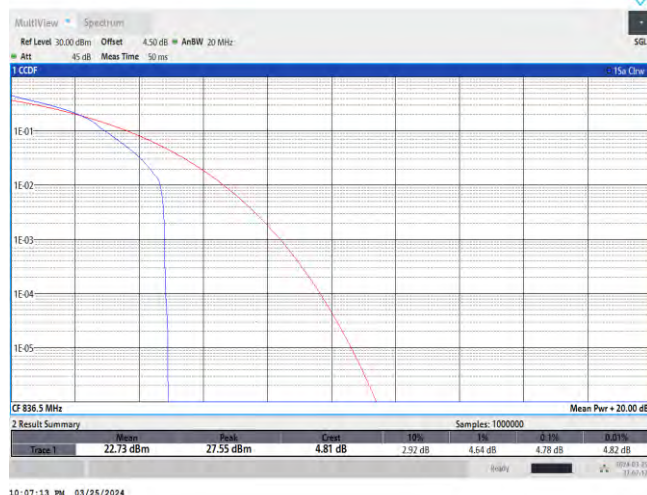
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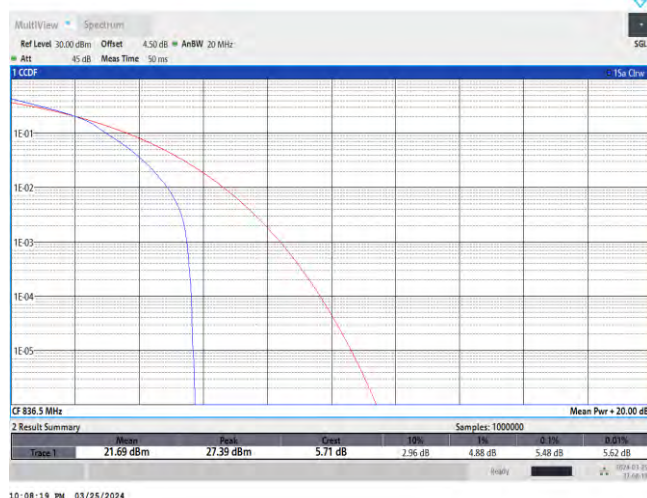
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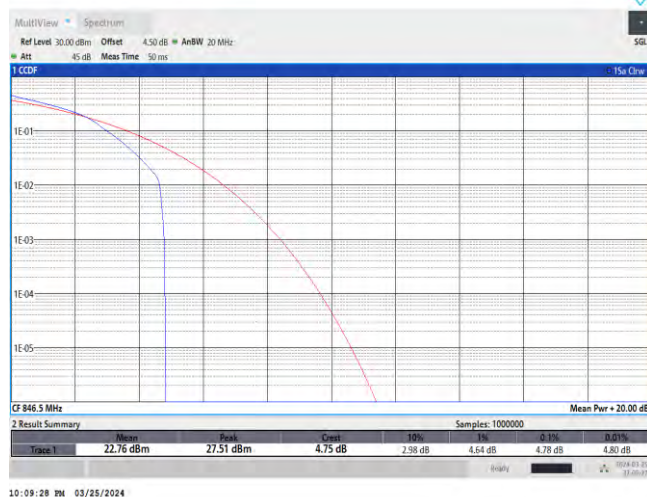
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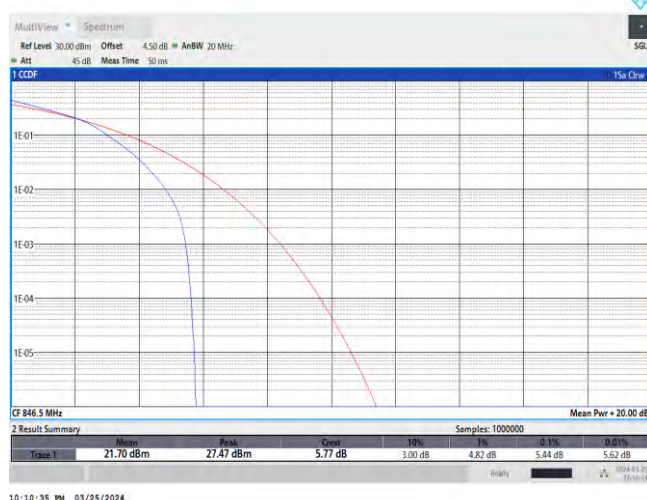
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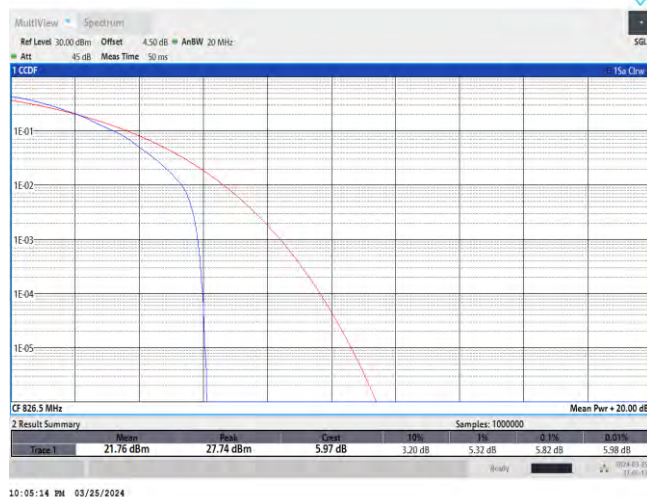
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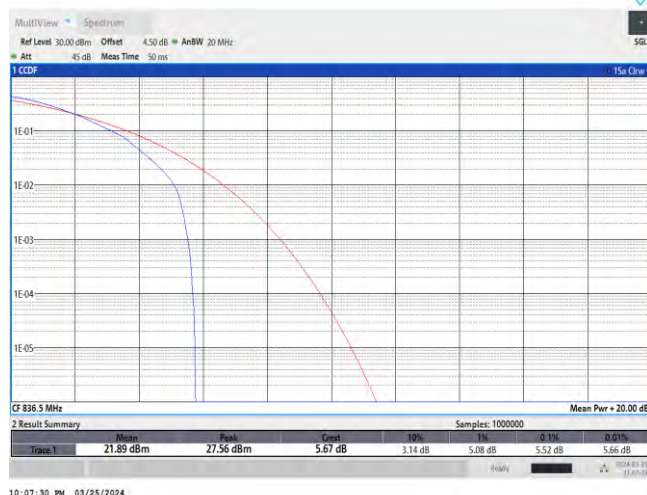
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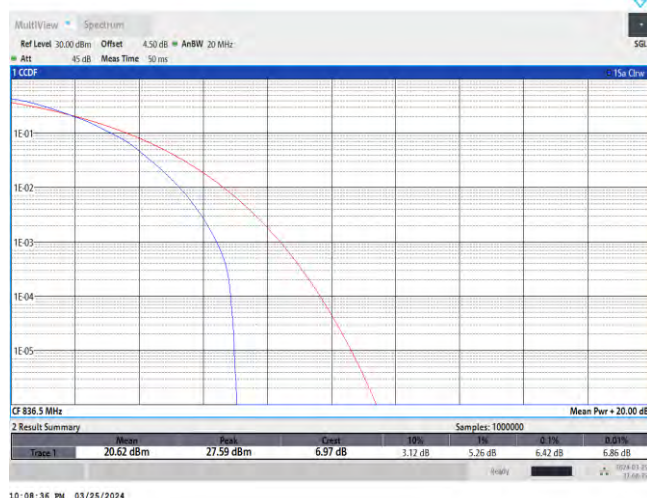
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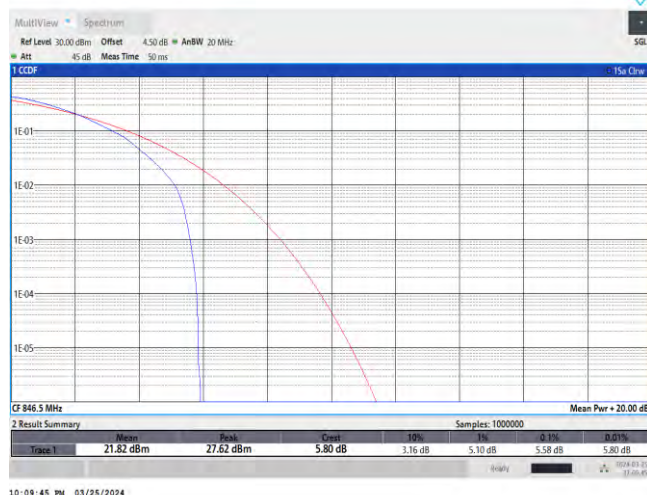
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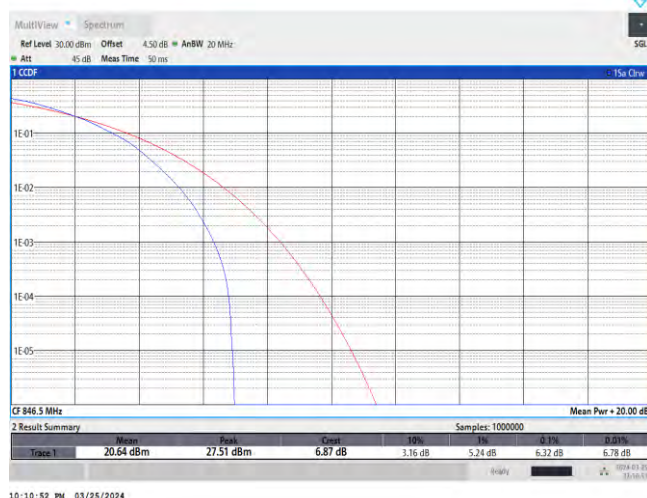
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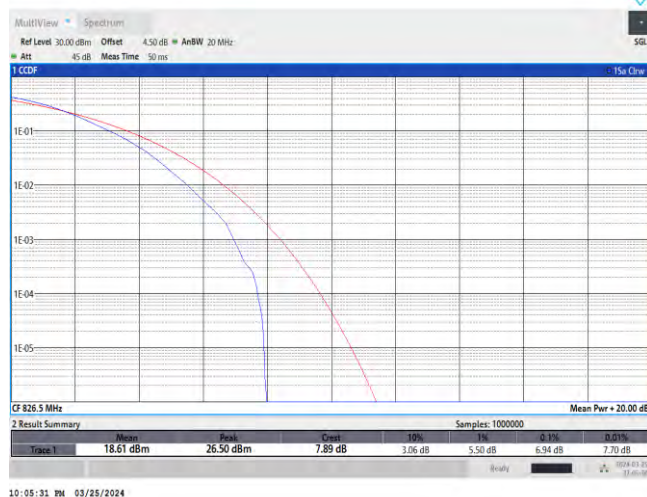
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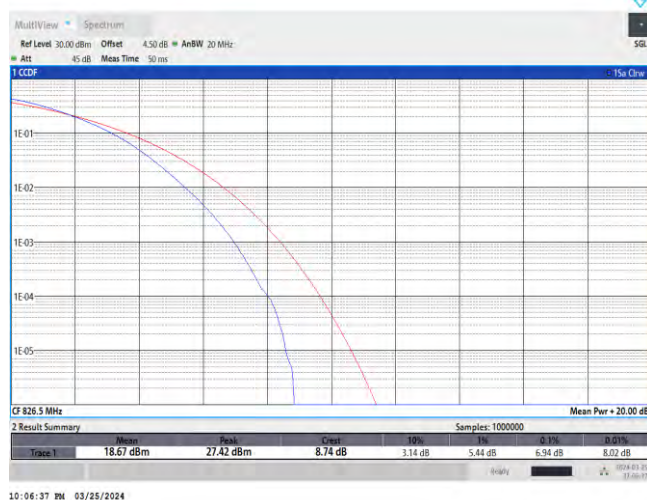
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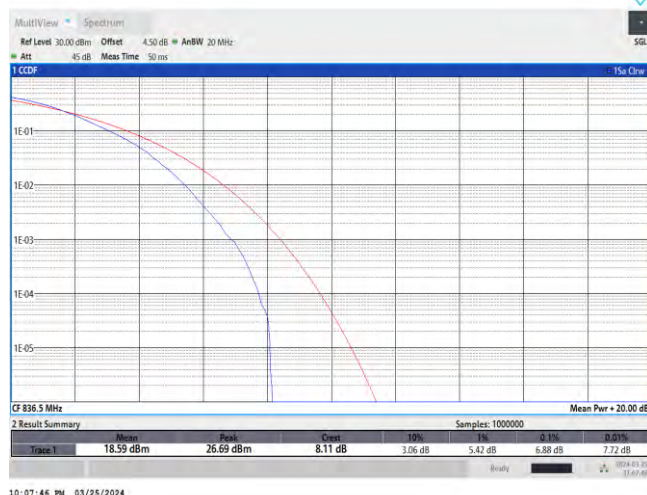
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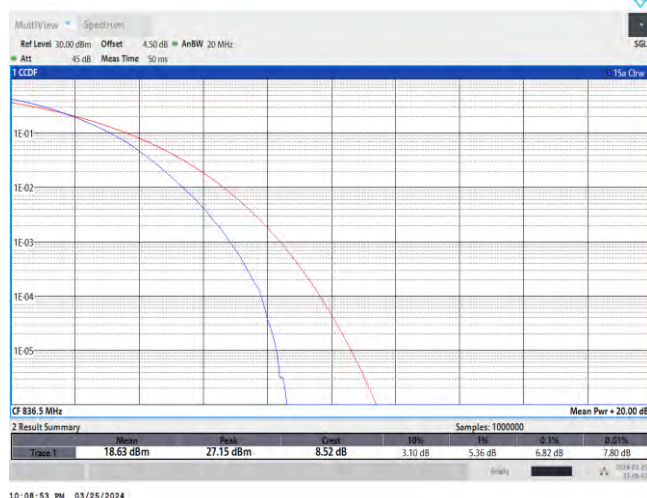
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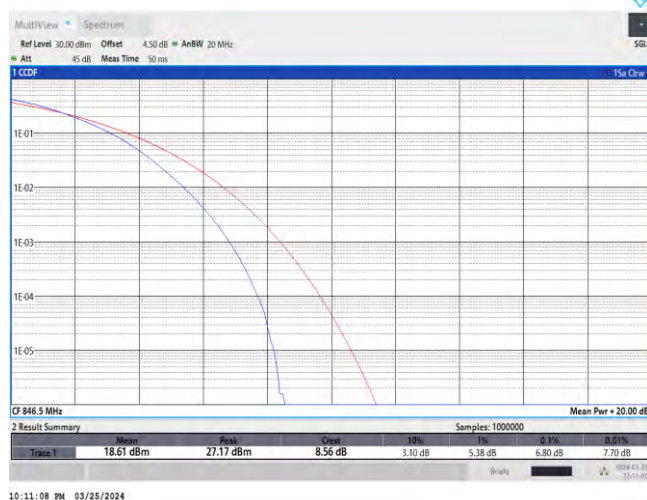
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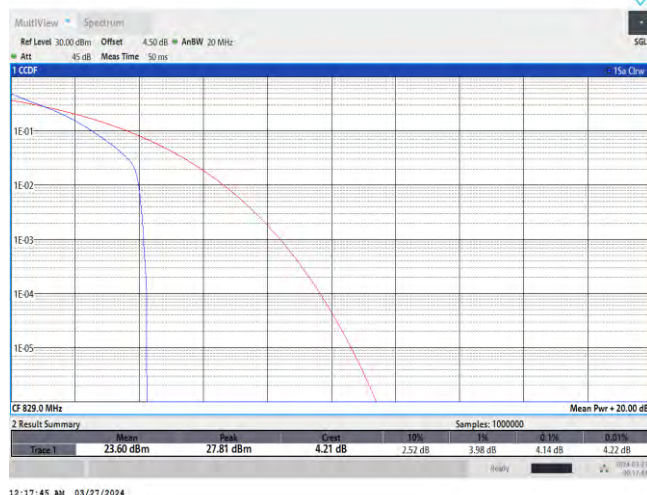
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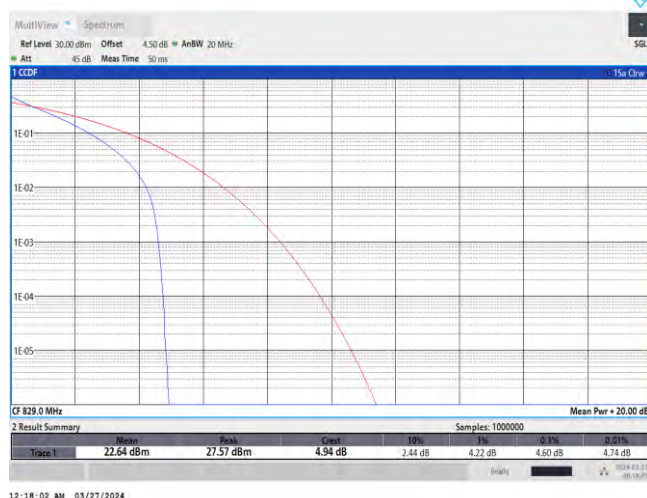
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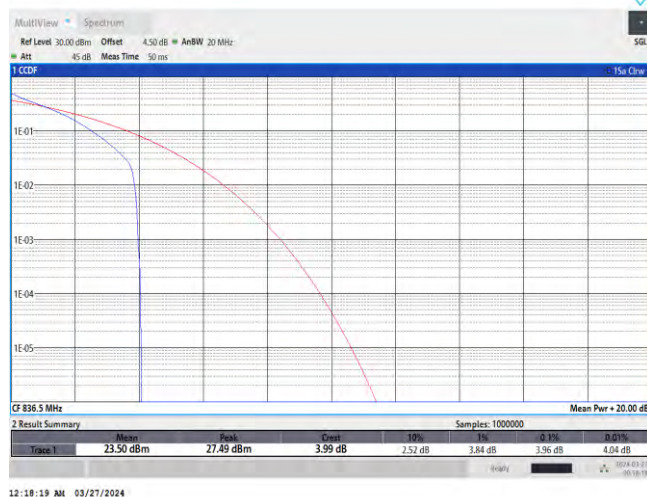
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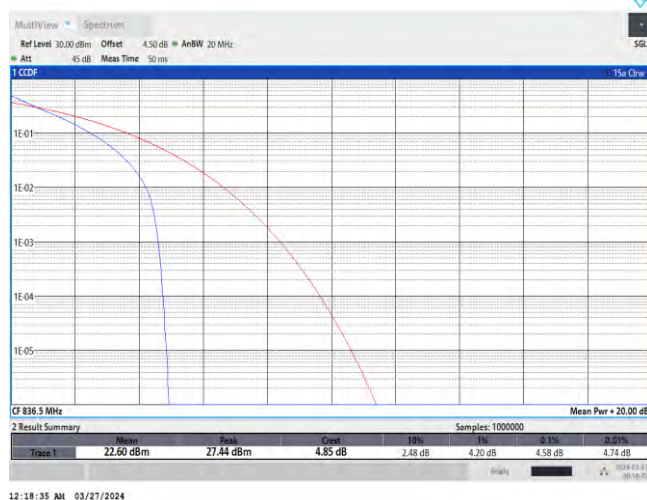
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Band5-10MHz-QPSK-20525-1RB#0



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



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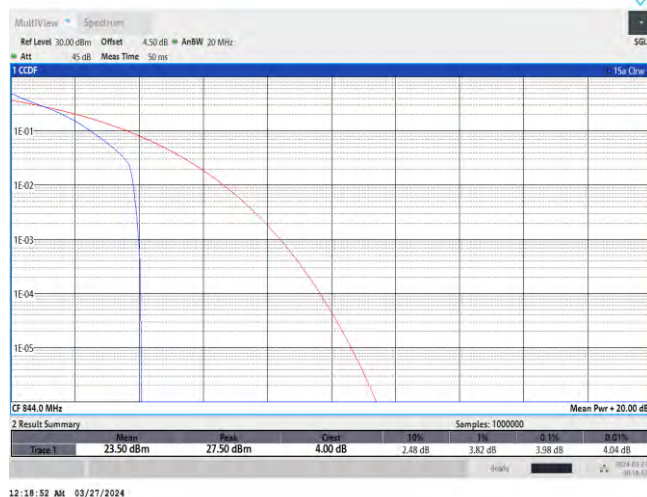
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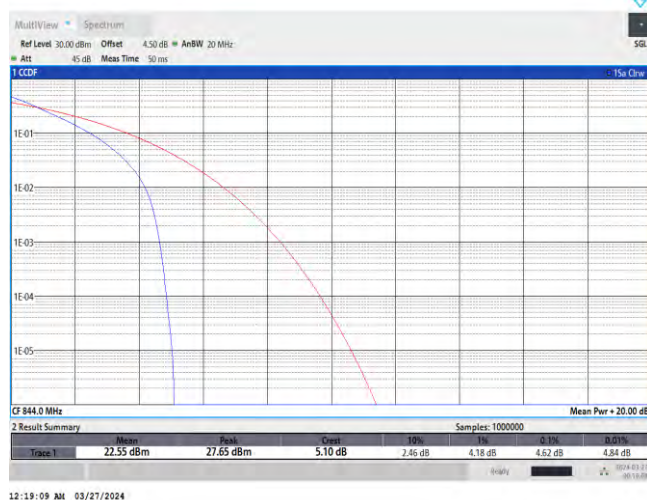
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Band5-10MHz-QPSK-20600-1RB#0



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



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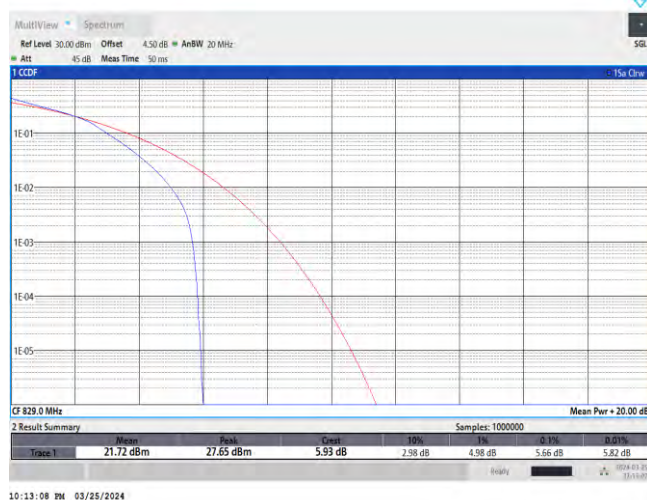
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Band5-10MHz-16QAM-20450-1RB#0



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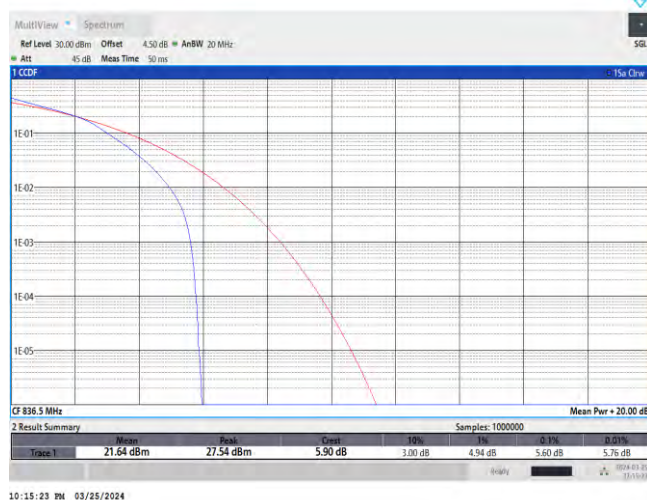
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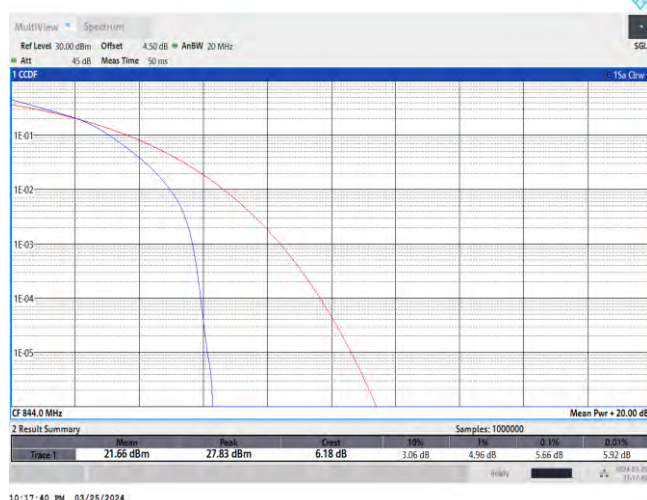
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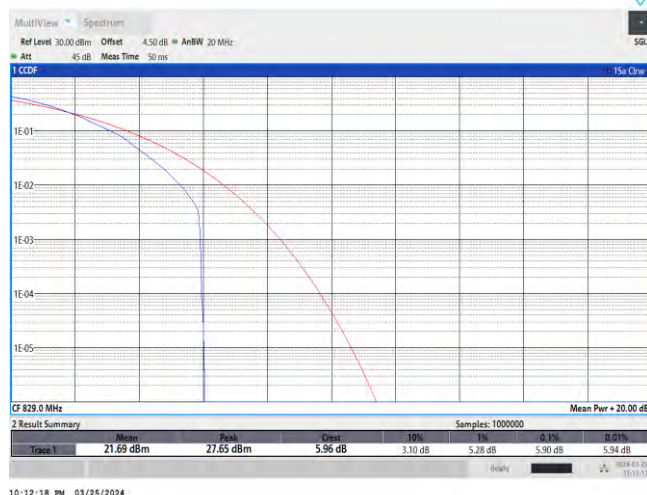
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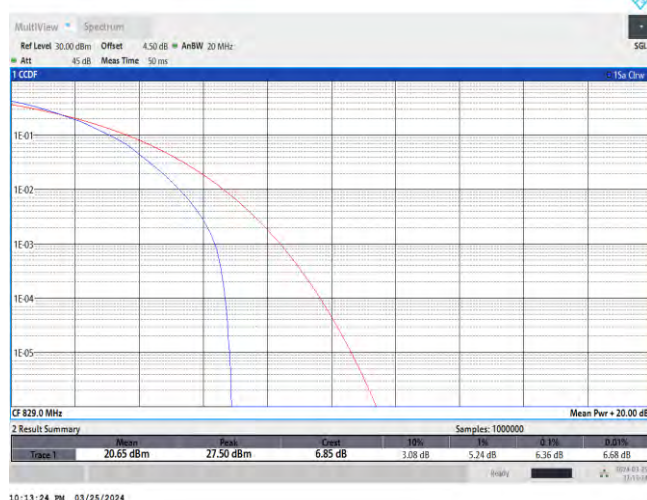
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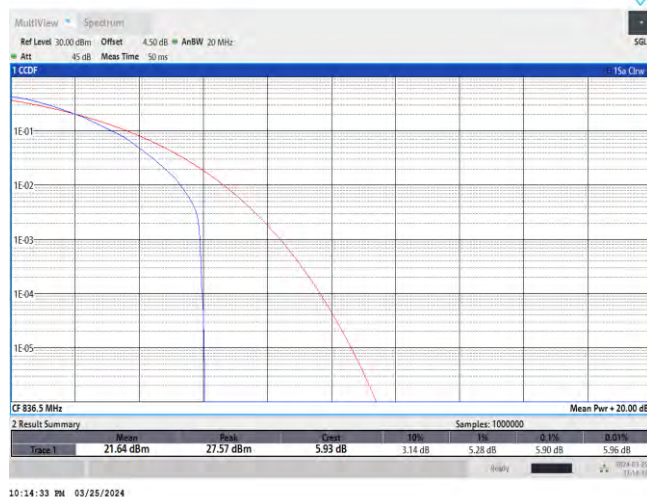
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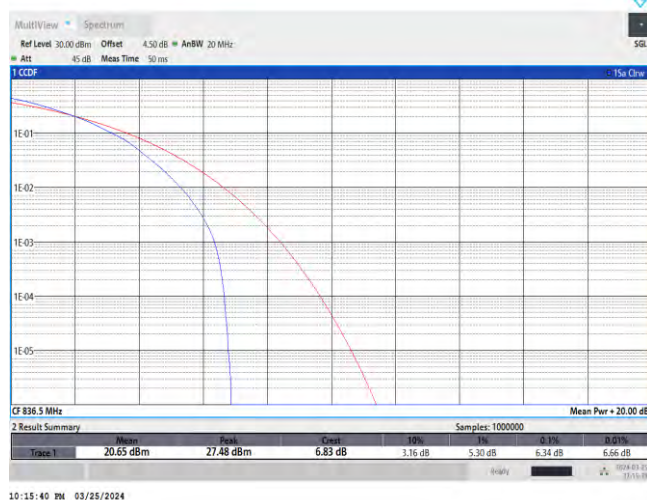
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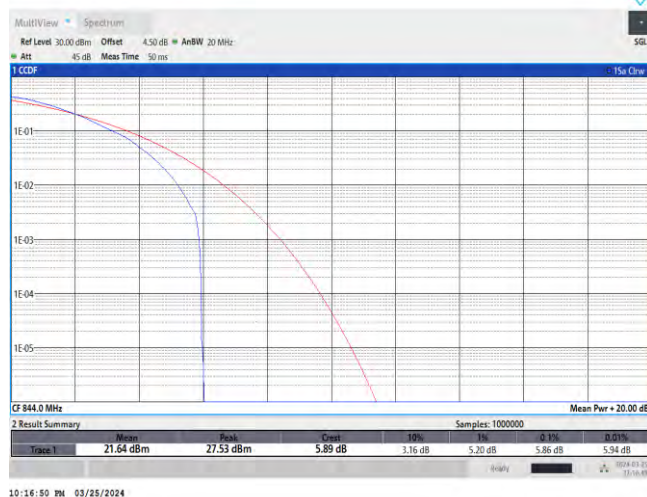
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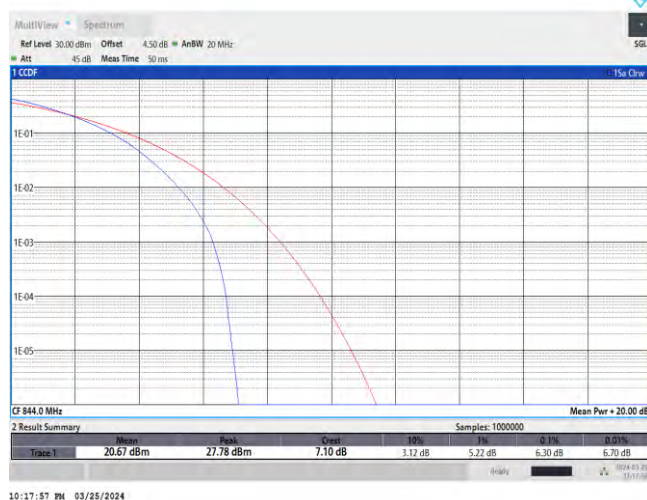
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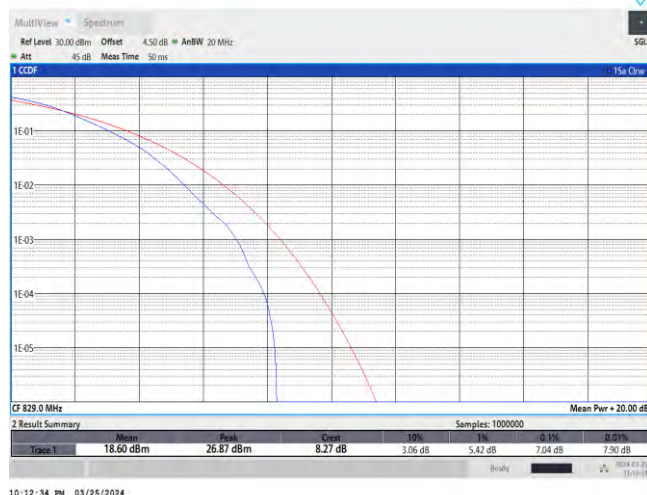
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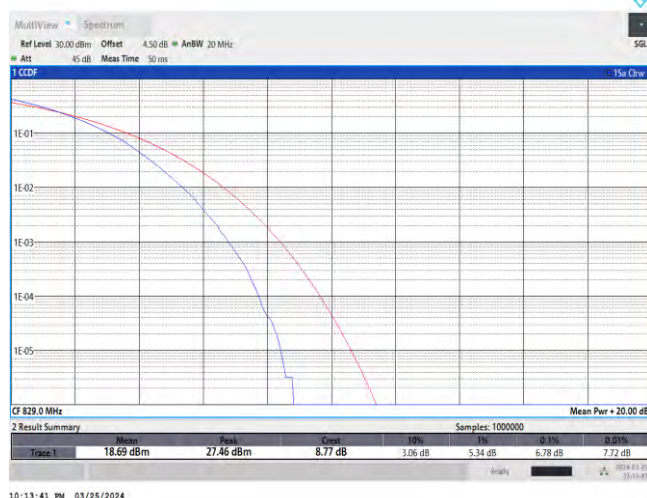
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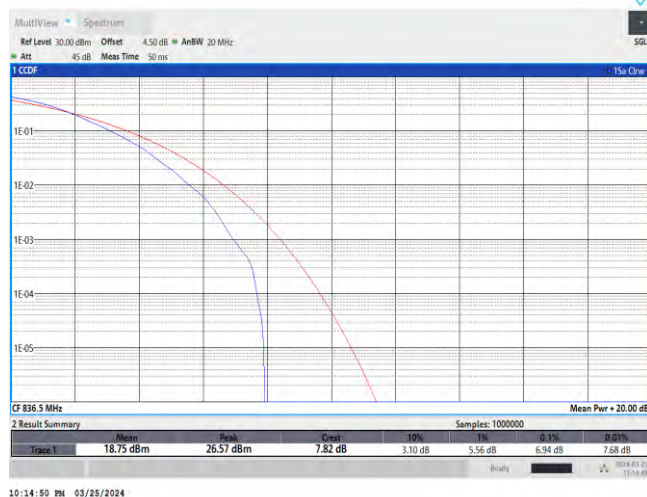
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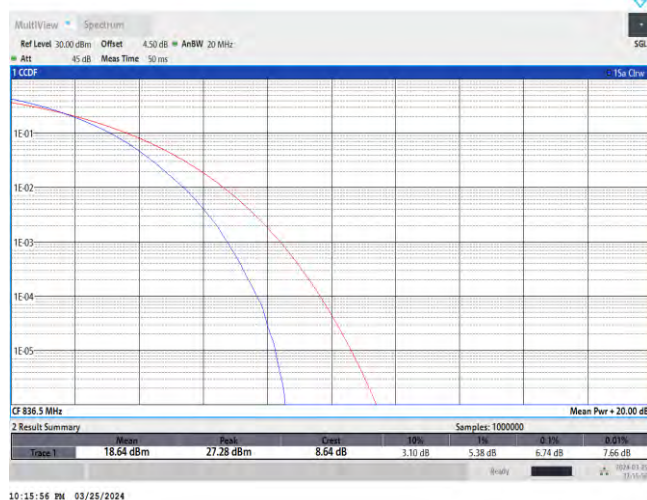
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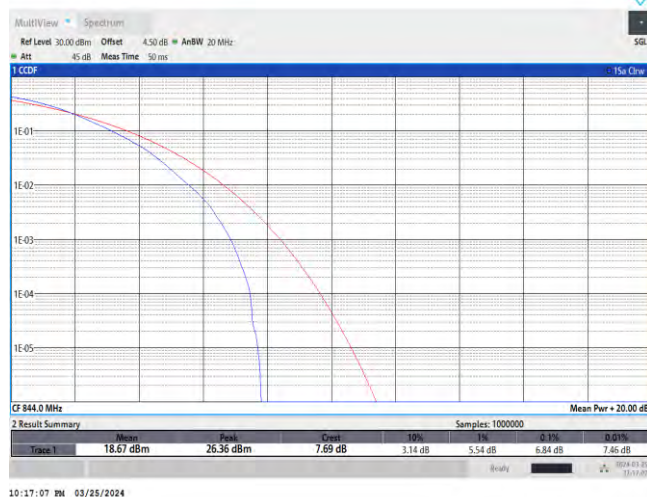
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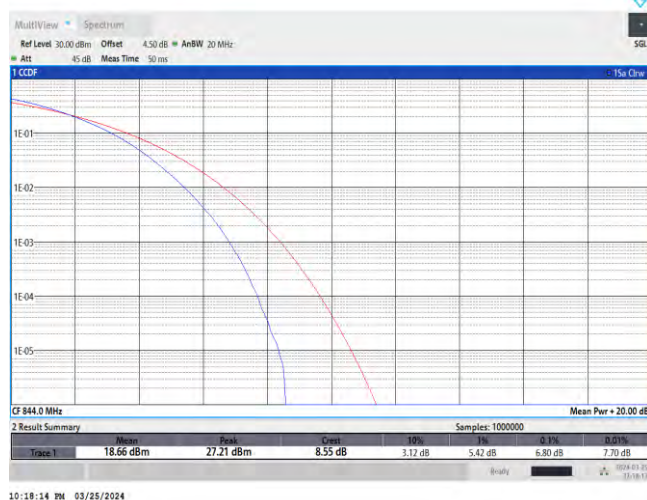
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	1.105	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.108	1.38	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.108	1.42	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.106	1.39	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	3.05	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.698	3.04	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.7	3.05	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.7	3.07	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	5.07	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.481	4.98	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.474	5.03	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.473	5.03	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.949	9.94	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.952	9.90	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.945	9.84	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.949	9.84	PASS



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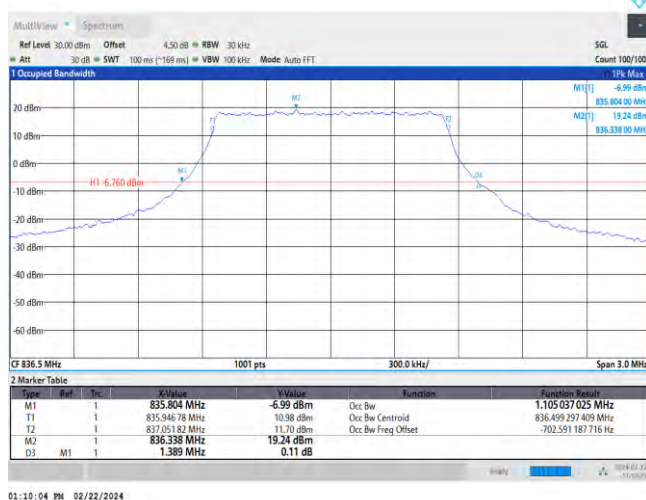
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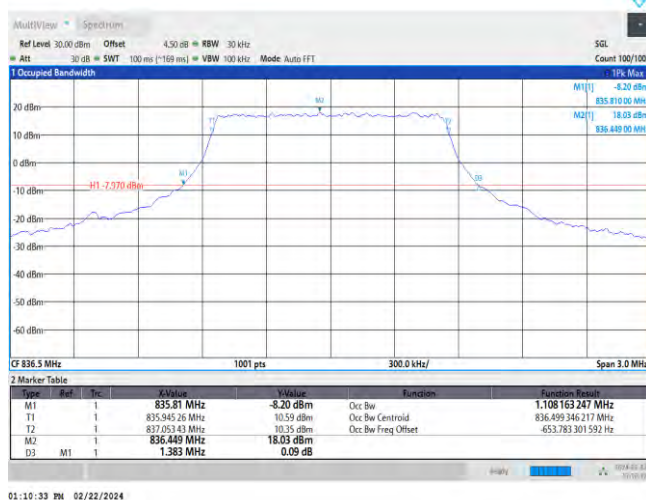
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Test Graphs

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



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



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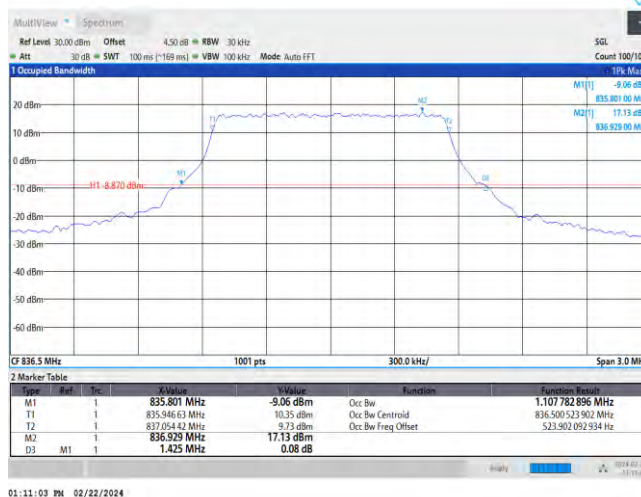
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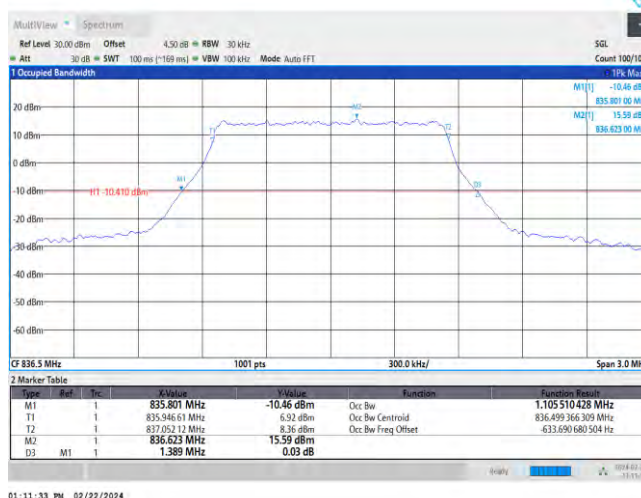
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Band5-1.4MHz-64QAM-20525-6RB#0



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



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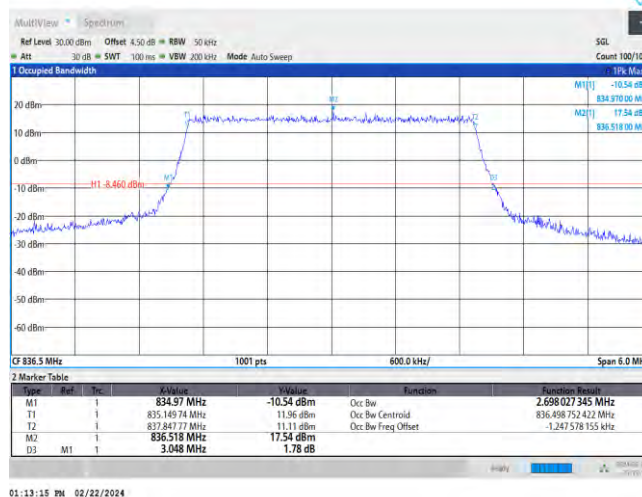
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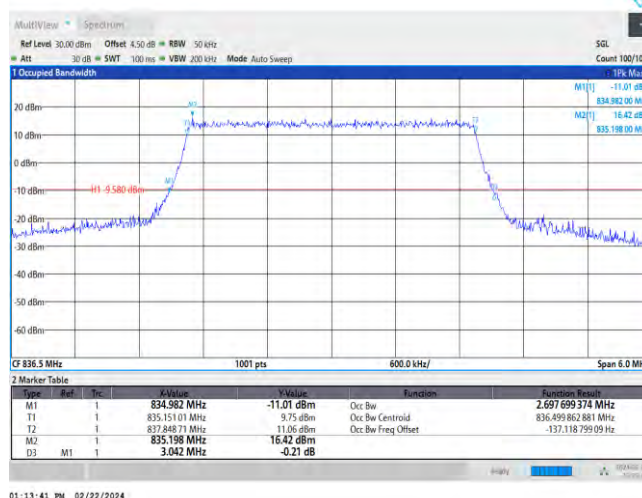
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Band5-3MHz-QPSK-20525-15RB#0



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



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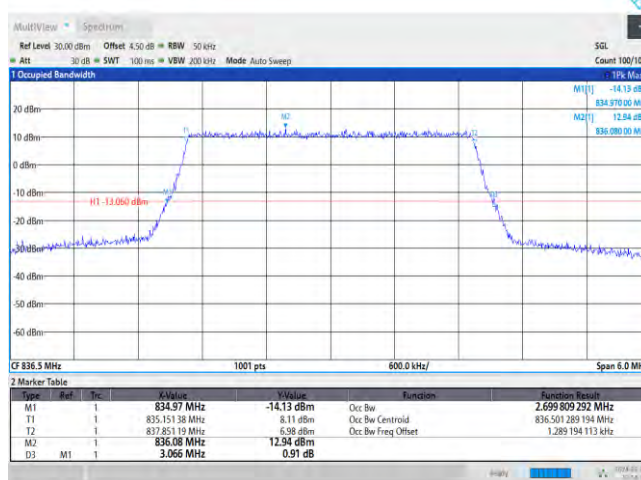
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Band5-3MHz-256QAM-20525-15RB#0



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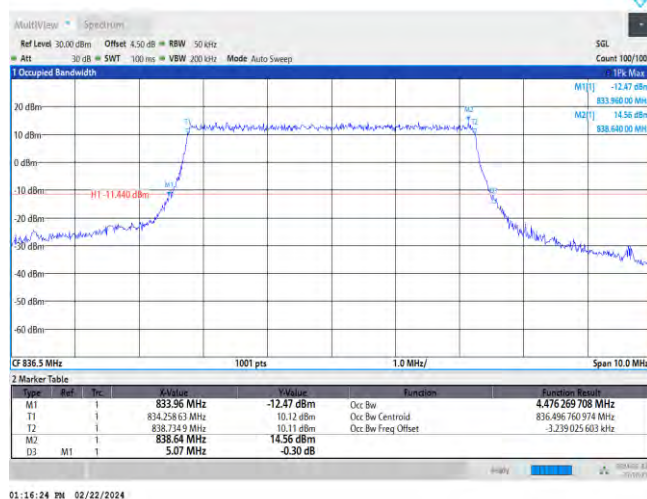
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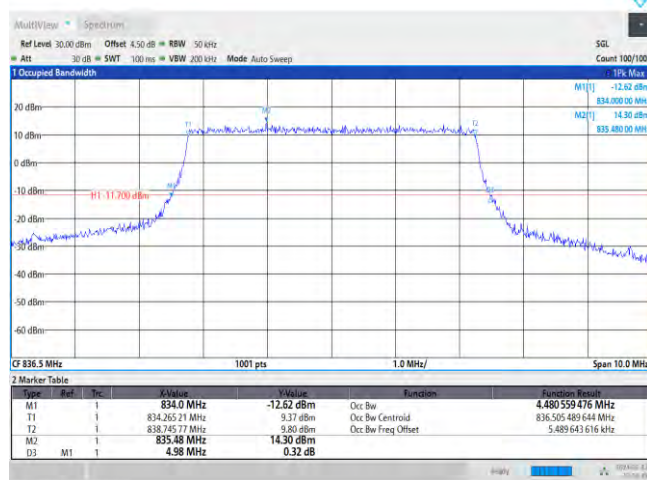
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Band5-5MHz-16QAM-20525-25RB#0



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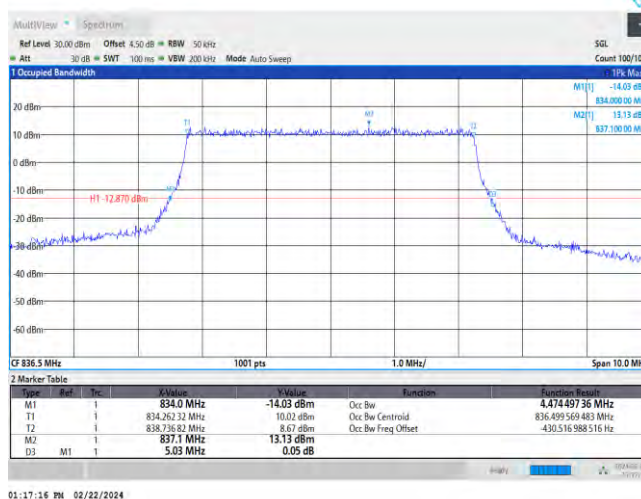
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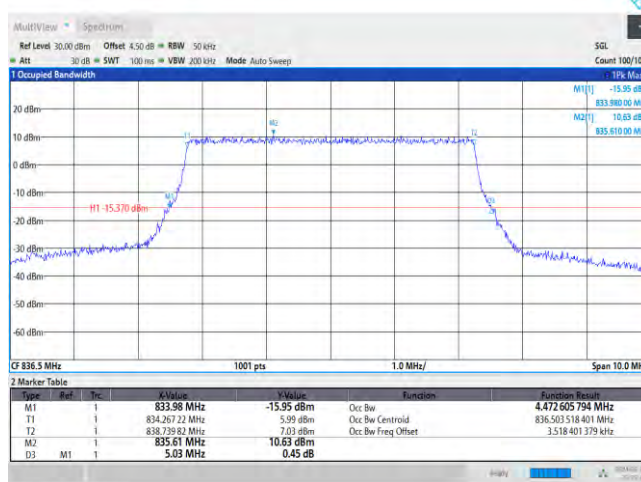
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Band5-5MHz-256QAM-20525-25RB#0



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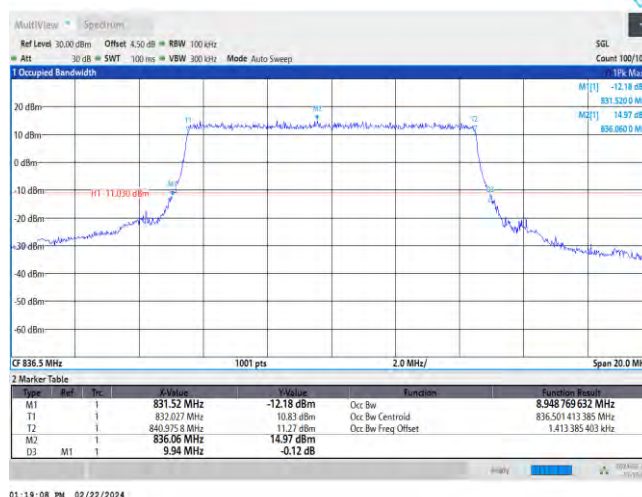
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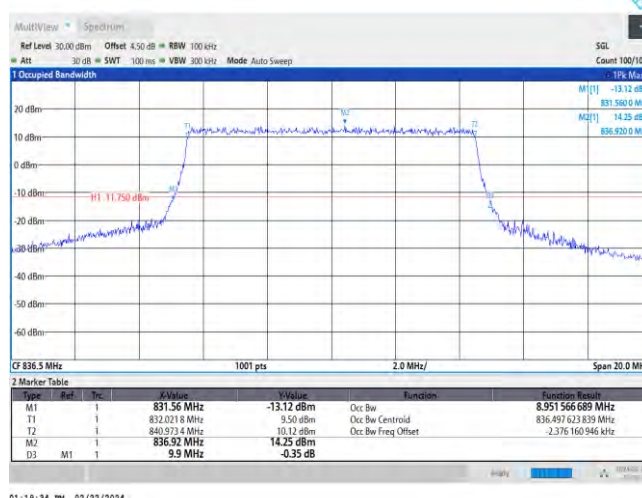
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Band5-10MHz-QPSK-20525-50RB#0



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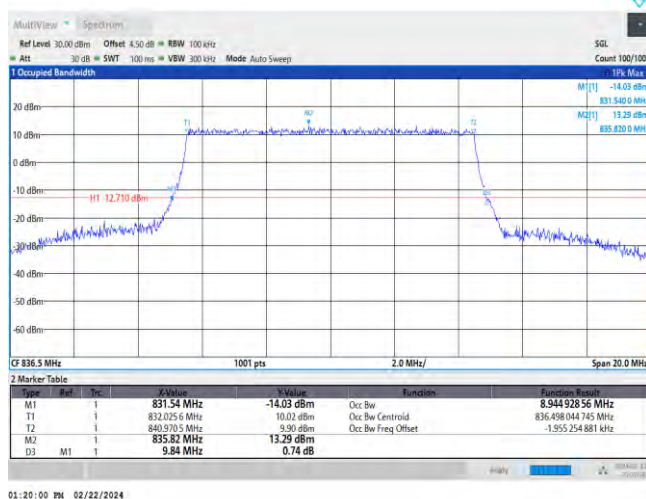
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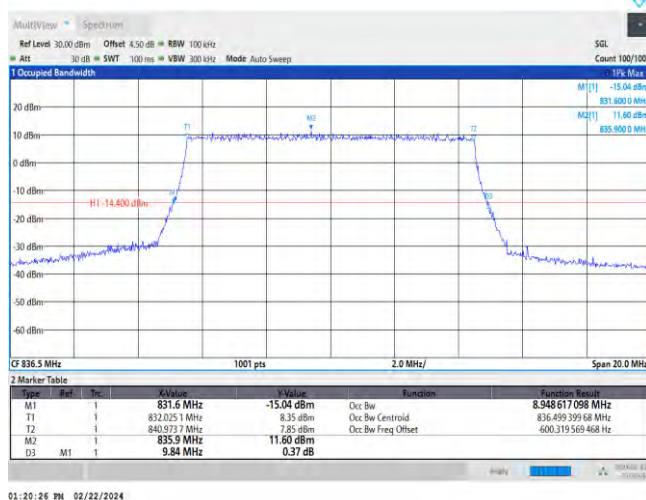
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Band5-10MHz-64QAM-20525-50RB#0



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



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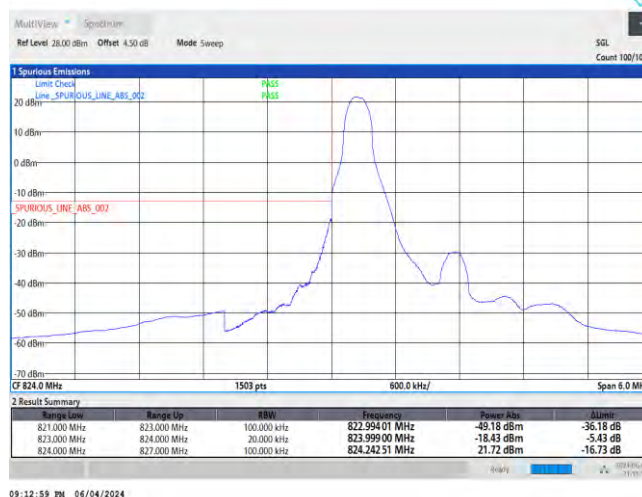
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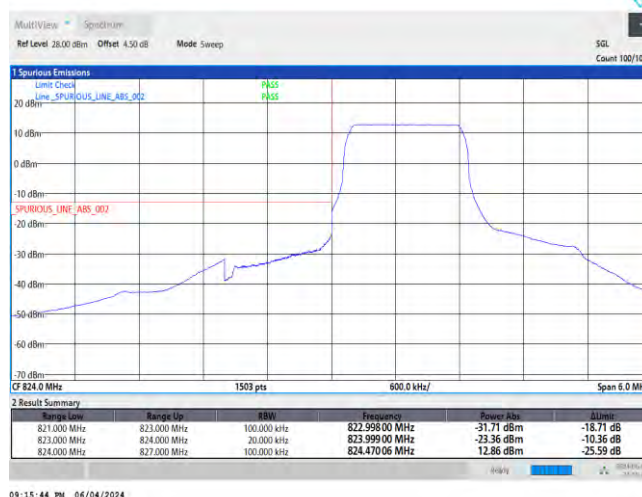
Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0



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



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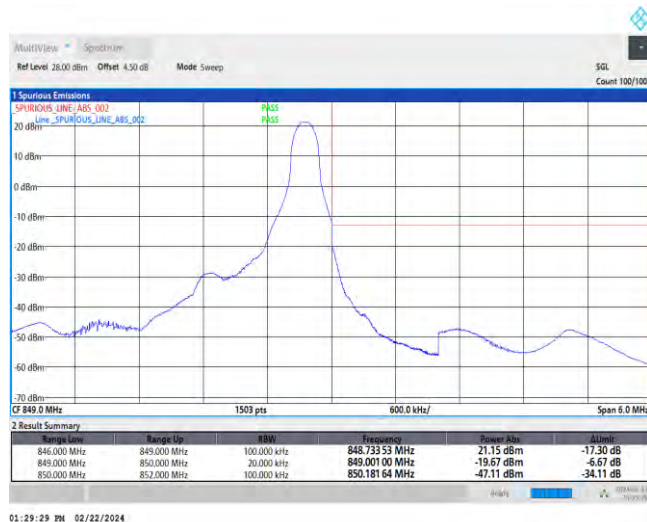
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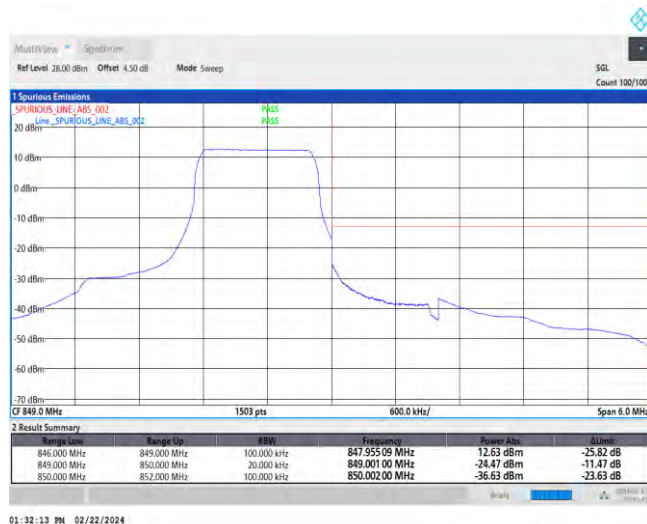
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Band5-1.4MHz-QPSK-20643-1RB#5



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



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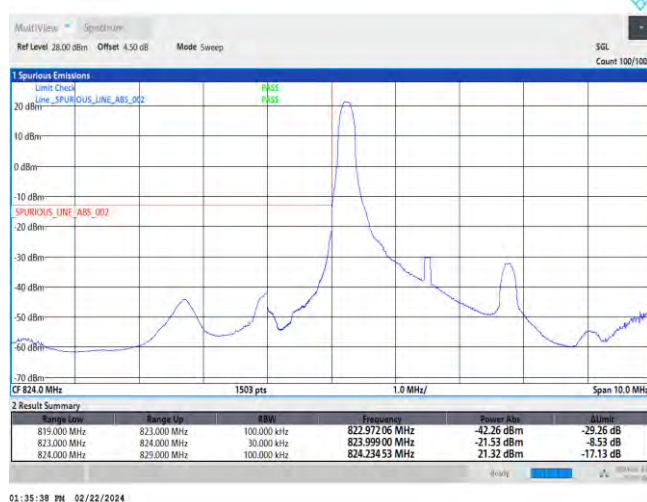
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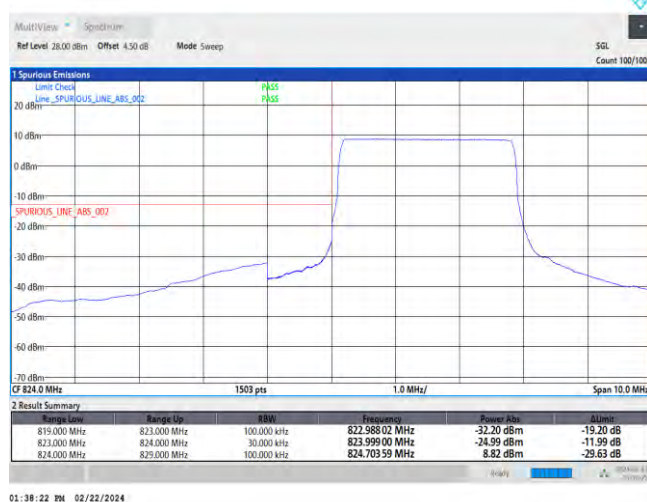
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Band5-3MHz-QPSK-20415-1RB#0



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



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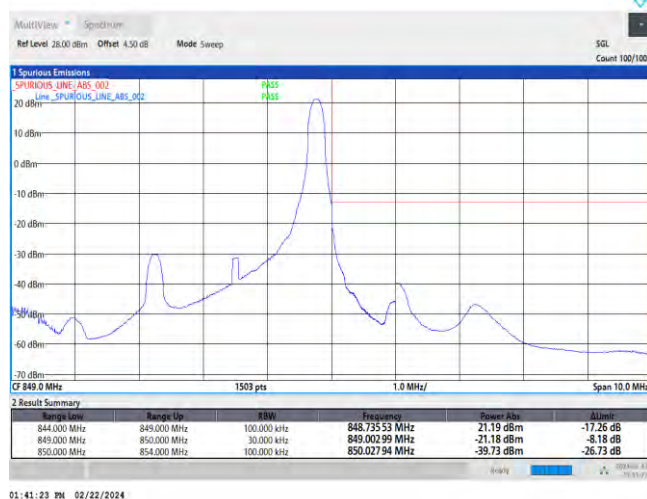
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Band5-3MHz-QPSK-20635-1RB#14



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



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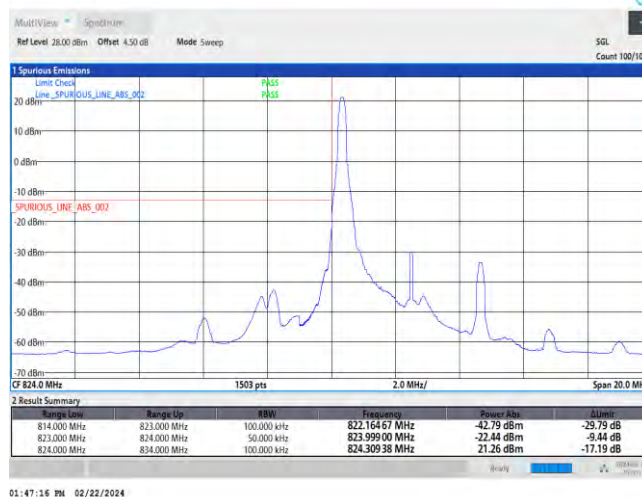
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Band5-5MHz-QPSK-20425-1RB#0



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



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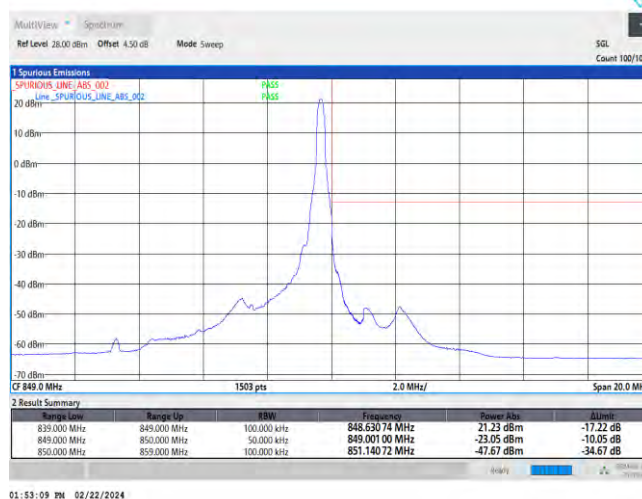
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Band5-5MHz-QPSK-20625-1RB#24



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



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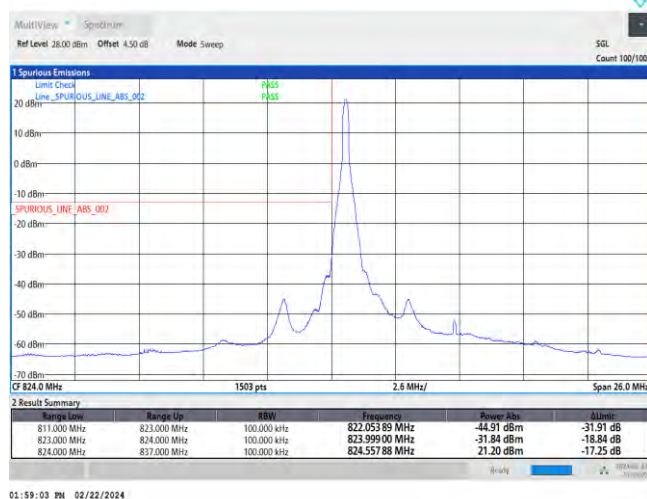
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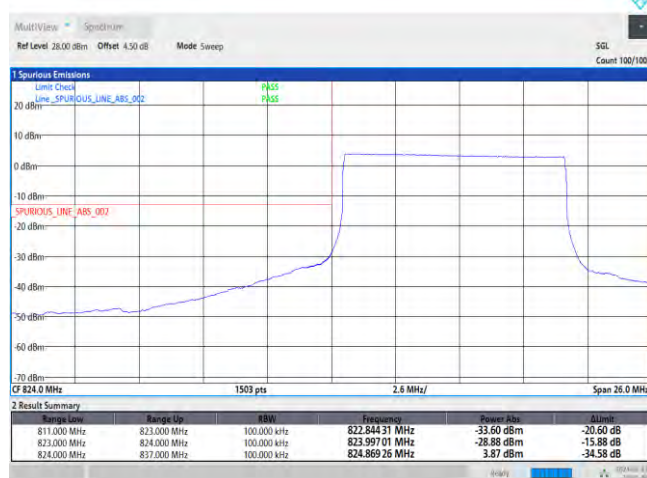
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Band5-10MHz-QPSK-20450-1RB#0



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



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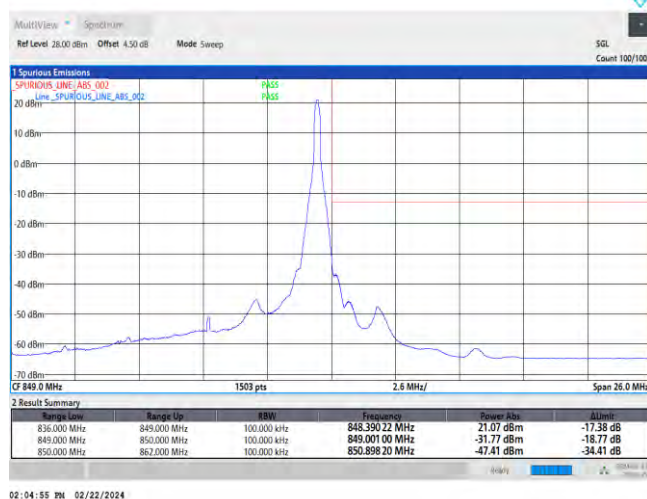
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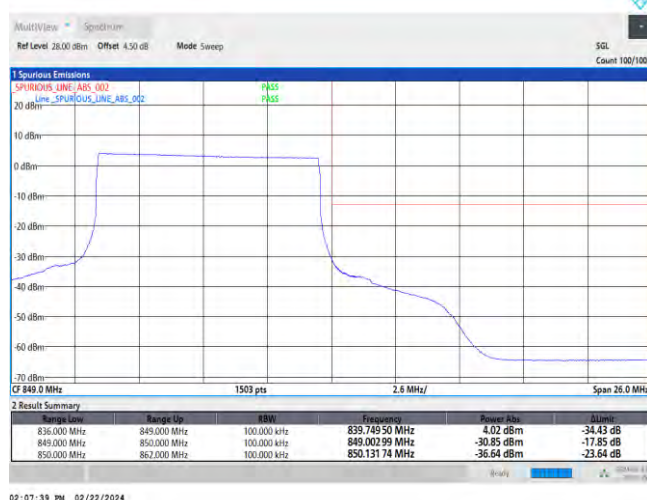
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Band5-10MHz-QPSK-20600-1RB#49



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



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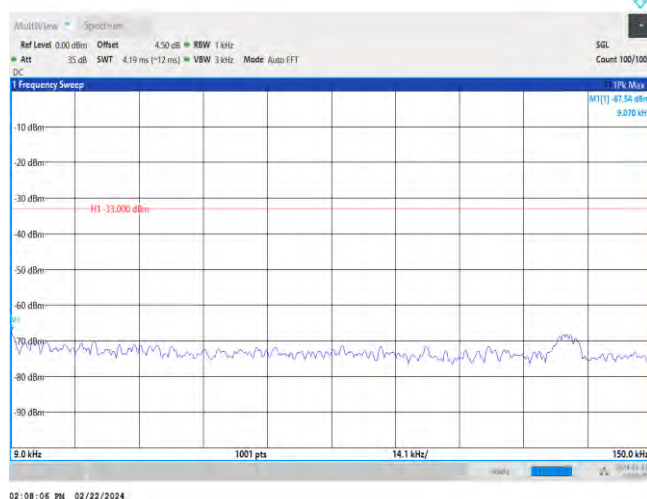
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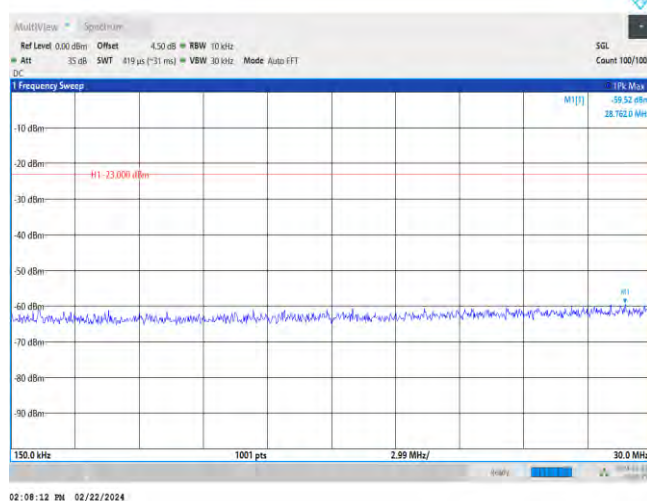
Conducted Spurious Emission

Test Graphs

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



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



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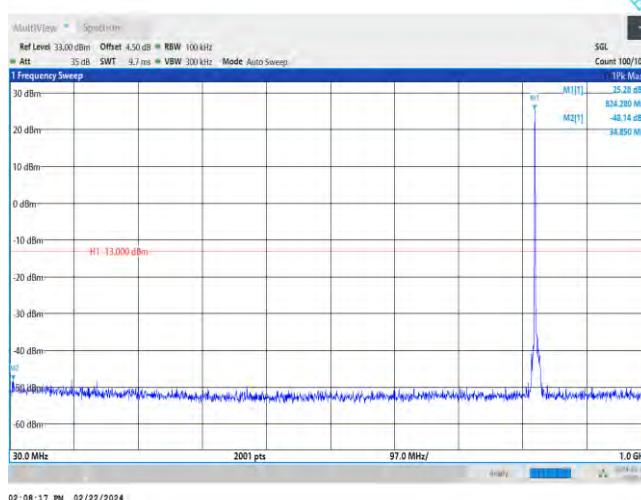
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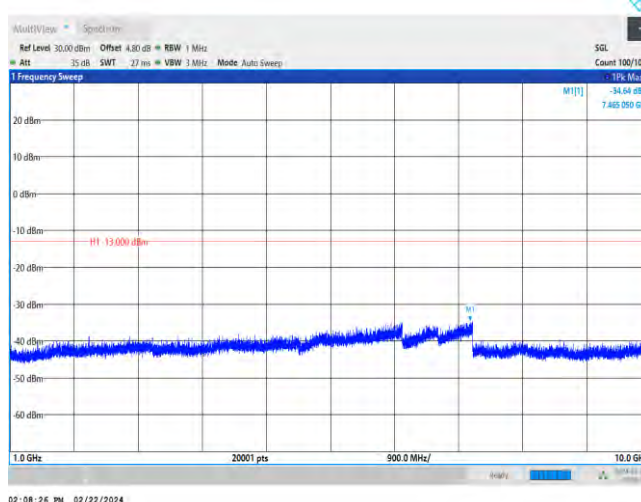
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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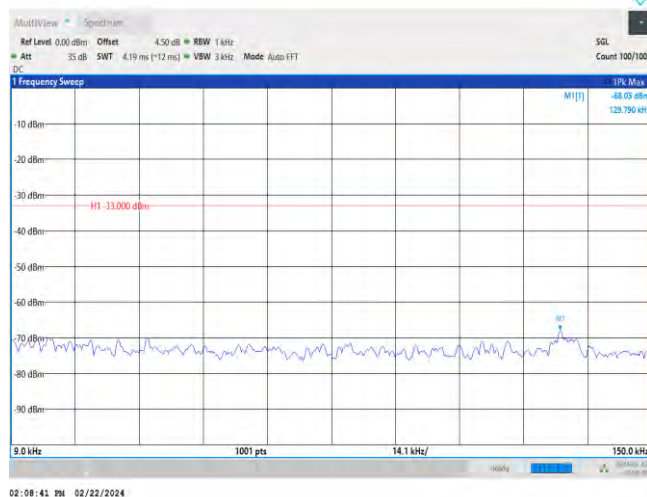
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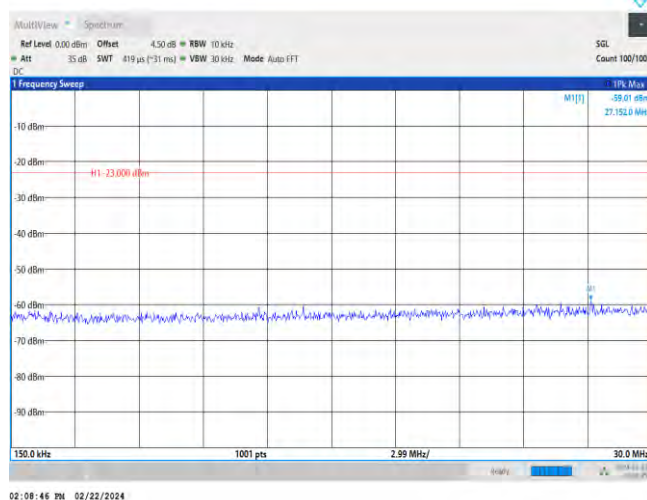
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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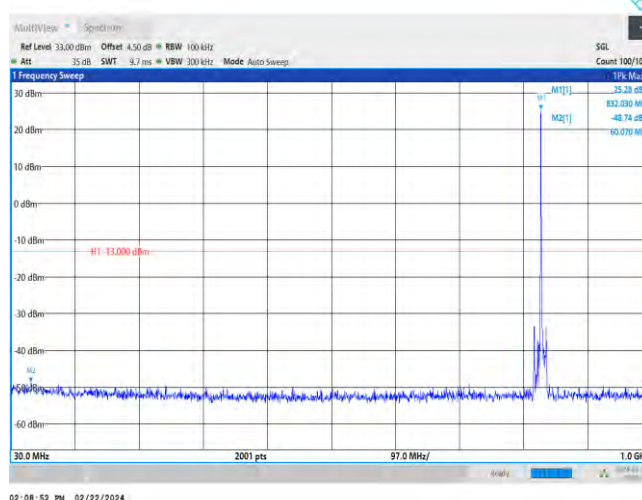
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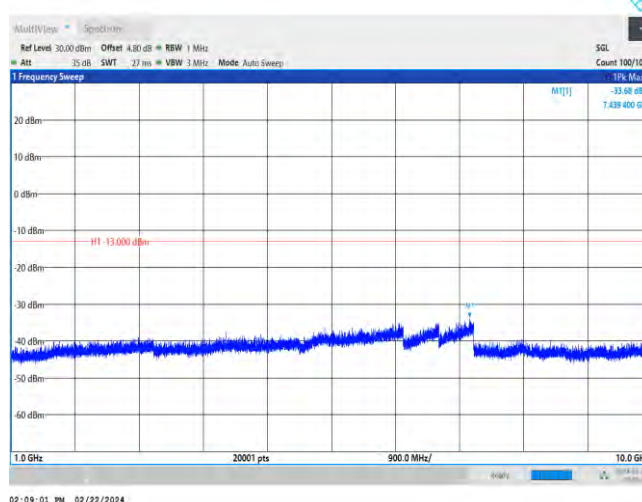
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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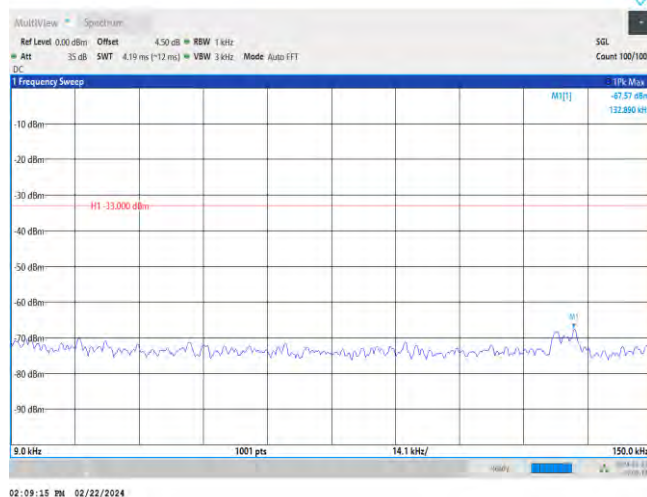
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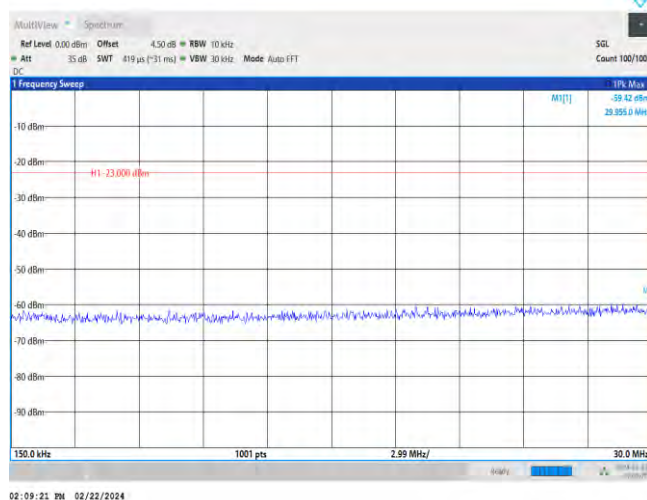
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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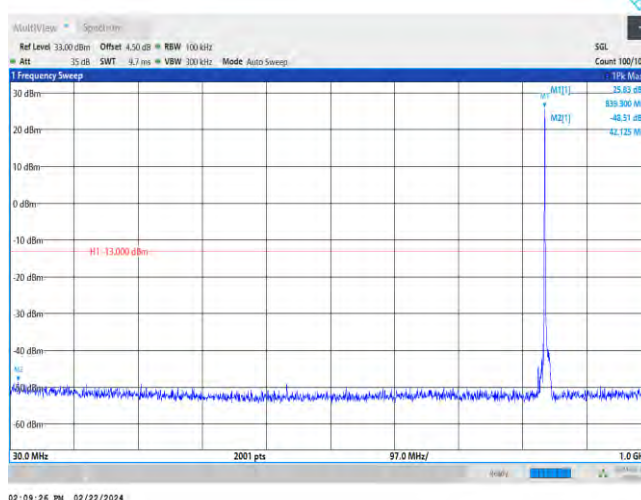
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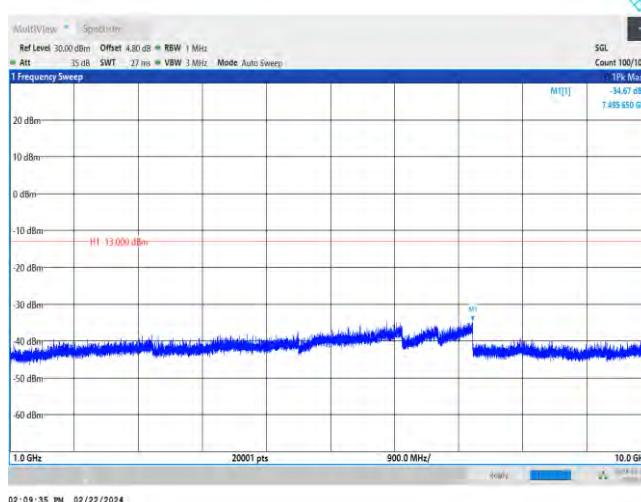
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5
Test Channel = Low

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1098	48.44	-47.70	24.29	-70.23	-13.00	57.23	Horizontal
2	1649	49.90	-47.52	25.49	-67.39	-13.00	54.39	Horizontal
3	2474	58.22	-46.67	27.70	-56.01	-13.00	43.01	Horizontal
4	4376	46.51	-43.18	30.00	-61.93	-13.00	48.93	Horizontal
5	7412	43.74	-38.35	36.72	-53.15	-13.00	40.15	Horizontal
6	9995.5	42.13	-35.66	38.70	-50.09	-13.00	37.09	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152	48.03	-47.81	24.50	-70.54	-13.00	57.54	Vertical
2	1649.5	48.88	-47.52	25.50	-68.40	-13.00	55.40	Vertical
3	2474	51.93	-46.67	27.70	-62.30	-13.00	49.30	Vertical
4	4419.5	46.54	-43.23	30.10	-61.85	-13.00	48.85	Vertical
5	7146.5	43.64	-38.90	36.37	-54.15	-13.00	41.15	Vertical
6	9995	42.88	-35.66	38.70	-49.34	-13.00	36.34	Vertical



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Test Band = LTE Band5
Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1148.5	48.09	-47.80	24.49	-70.48	-13.00	57.48	Horizontal
2	1664	48.11	-47.49	25.39	-69.25	-13.00	56.25	Horizontal
3	2496.5	55.57	-46.69	27.79	-58.59	-13.00	45.59	Horizontal
4	3970	46.71	-44.09	29.86	-62.78	-13.00	49.78	Horizontal
5	6003.5	45.63	-40.73	33.04	-57.32	-13.00	44.32	Horizontal
6	7918.5	43.24	-37.47	36.46	-53.03	-13.00	40.03	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1451	47.44	-47.51	25.29	-70.04	-13.00	57.04	Vertical
2	2496.5	50.48	-46.69	27.79	-63.68	-13.00	50.68	Vertical
3	4323	46.38	-42.98	29.68	-62.18	-13.00	49.18	Vertical
4	6049.5	45.24	-40.59	33.50	-57.11	-13.00	44.11	Vertical
5	7851	43.08	-37.69	36.79	-53.08	-13.00	40.08	Vertical
6	9506	42.04	-35.79	37.80	-51.21	-13.00	38.21	Vertical



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Test Band = LTE Band5
Test Channel = High

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1111.5	48.55	-47.74	24.35	-70.10	-13.00	57.10	Horizontal
2	1598	47.99	-47.61	25.06	-69.82	-13.00	56.82	Horizontal
3	2518.5	54.99	-46.59	27.80	-59.06	-13.00	46.06	Horizontal
4	3920	47.21	-44.32	29.78	-62.59	-13.00	49.59	Horizontal
5	5837	45.58	-41.11	32.55	-58.24	-13.00	45.24	Horizontal
6	8880.5	42.68	-35.85	36.74	-51.69	-13.00	38.69	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1309	48.33	-47.84	24.69	-70.08	-13.00	57.08	Vertical
2	1963	47.56	-46.99	25.76	-68.93	-13.00	55.93	Vertical
3	2519	50.23	-46.59	27.80	-63.82	-13.00	50.82	Vertical
4	3700.5	46.98	-44.48	29.30	-63.46	-13.00	50.46	Vertical
5	6036	45.27	-40.63	33.36	-57.26	-13.00	44.26	Vertical
6	8428	43.70	-36.83	36.44	-51.95	-13.00	38.95	Vertical



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Test Band = LTE 5A_30A

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3874	45.24	-46.19	29.20	-67.01	-40.00	27.01	Horizontal
2	5830.5	44.07	-44.82	32.37	-63.64	-40.00	23.64	Horizontal
3	8652	41.84	-41.52	36.71	-58.23	-40.00	18.23	Horizontal
4	11986.5	37.24	-37.56	39.09	-56.49	-40.00	16.49	Horizontal
5	14952	34.11	-34.66	41.56	-54.25	-40.00	14.25	Horizontal
6	16996.5	33.98	-33.22	42.09	-52.41	-40.00	12.41	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3874.5	45.13	-46.19	29.20	-67.12	-40.00	27.12	Vertical
2	5800.5	43.58	-44.75	32.36	-64.07	-40.00	24.07	Vertical
3	8753.5	42.21	-41.45	36.65	-57.86	-40.00	17.86	Vertical
4	12055.5	36.97	-37.47	39.12	-56.64	-40.00	16.64	Vertical
5	14949.5	33.86	-34.66	41.56	-54.50	-40.00	14.50	Vertical
6	16989	33.98	-33.32	42.07	-52.53	-40.00	12.53	Vertical



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Test Band = LTE 5A_30A
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3871.5	44.98	-46.18	29.19	-67.26	-40.00	27.26	Horizontal
2	5788.5	43.76	-44.76	32.36	-63.90	-40.00	23.90	Horizontal
3	6801	42.60	-44.17	34.64	-62.19	-40.00	22.19	Horizontal
4	8021	42.20	-42.14	37.09	-58.11	-40.00	18.11	Horizontal
5	9368	40.02	-39.95	37.24	-57.96	-40.00	17.96	Horizontal
6	14944.5	34.60	-34.66	41.56	-53.77	-40.00	13.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4426.5	44.48	-45.79	30.42	-66.15	-40.00	26.15	Vertical
2	6402	43.12	-44.41	33.77	-62.79	-40.00	22.79	Vertical
3	8424	42.07	-41.49	36.85	-57.84	-40.00	17.84	Vertical
4	11402	37.13	-37.37	38.80	-56.70	-40.00	16.70	Vertical
5	14346	35.01	-35.53	41.08	-54.71	-40.00	14.71	Vertical
6	17753	33.20	-34.35	45.41	-50.99	-40.00	10.99	Vertical



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Test Band = LTE 5A_30A
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704	44.40	-45.52	28.93	-67.45	-40.00	27.45	Horizontal
2	5502	44.54	-45.24	32.30	-63.66	-40.00	23.66	Horizontal
3	7975.5	43.01	-42.47	37.07	-57.65	-40.00	17.65	Horizontal
4	9439.5	41.25	-39.99	37.38	-56.62	-40.00	16.62	Horizontal
5	12495	36.40	-36.98	39.25	-56.59	-40.00	16.59	Horizontal
6	17921	33.49	-34.52	46.15	-50.14	-40.00	10.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4008	44.32	-46.02	29.42	-67.54	-40.00	27.54	Vertical
2	5451.5	44.79	-45.27	32.21	-63.53	-40.00	23.53	Vertical
3	6797.5	44.60	-44.16	34.64	-60.19	-40.00	20.19	Vertical
4	8733	42.07	-41.54	36.66	-58.07	-40.00	18.07	Vertical
5	11154.5	36.90	-37.65	38.68	-57.34	-40.00	17.34	Vertical
6	14396	34.22	-34.85	41.12	-54.78	-40.00	14.78	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.90	-0.002271	±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	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.60	-0.003108	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.70	-0.000837	±2.5	PASS

---End of Attachment---



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