

# Appendix B.3

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.04	19.47	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.03	19.46	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.05	19.48	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.05	18.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.12	19.55	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.17	19.6	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.17	19.6	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.23	18.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.05	19.48	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.31	19.74	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.29	19.72	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.29	18.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.15	18.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.23	18.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.14	18.57	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.03	17.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.31	18.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.32	18.75	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.31	18.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.2	17.63	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.38	18.81	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.44	18.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.39	18.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.32	17.75	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.17	17.6	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.22	17.65	38.45	PASS



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Band5	1.4MHz	64QAM	20407	1RB#5	20.17	17.6	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	19.02	16.45	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.32	17.75	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.41	17.84	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.39	17.82	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.12	16.55	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.41	17.84	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.5	17.93	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.36	17.79	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.3	16.73	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	17.26	14.69	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	17.26	14.69	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.23	14.66	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	17.08	14.51	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	17.24	14.67	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	17.23	14.66	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	17.17	14.6	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	17.09	14.52	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	17.24	14.67	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	17.36	14.79	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	17.33	14.76	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	17.15	14.58	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.04	19.47	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.07	19.5	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.13	19.56	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.07	18.5	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.41	19.84	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.17	19.6	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.18	19.61	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.2	18.63	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.25	19.68	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.24	19.67	38.45	PASS



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Band5	3MHz	QPSK	20635	1RB#14	22.33	19.76	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.33	18.76	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.19	18.62	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.18	18.61	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.22	18.65	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.04	17.47	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.38	18.81	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.35	18.78	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.31	18.74	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.2	17.63	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.4	18.83	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.37	18.8	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.39	18.82	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.29	17.72	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.2	17.63	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.19	17.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.29	17.72	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.08	16.51	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.36	17.79	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.29	17.72	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.36	17.79	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.17	16.6	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.43	17.86	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.44	17.87	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.47	17.9	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.3	16.73	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.3	14.73	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	17.29	14.72	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.33	14.76	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	17.16	14.59	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	17.2	14.63	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	17.16	14.59	38.45	PASS



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Band5	3MHz	256QAM	20525	1RB#14	17.18	14.61	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	17.1	14.53	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	17.23	14.66	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	17.24	14.67	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	17.31	14.74	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	17.23	14.66	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.1	19.53	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.14	19.57	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.15	19.58	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.1	18.53	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.03	19.46	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.23	19.66	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.22	19.65	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.21	18.64	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.37	18.8	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.32	19.75	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.34	19.77	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.38	18.81	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.27	18.7	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.24	18.67	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.24	18.67	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.1	17.53	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.36	18.79	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.34	18.77	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.28	18.71	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.21	17.64	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.38	18.81	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.42	18.85	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.46	18.89	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.34	17.77	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.19	17.62	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.26	17.69	38.45	PASS



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Band5	5MHz	64QAM	20425	1RB#24	20.3	17.73	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.03	16.46	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	20.37	17.8	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.39	17.82	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.38	17.81	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.17	16.6	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.44	17.87	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.49	17.92	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.47	17.9	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.33	16.76	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	17.28	14.71	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	17.36	14.79	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	17.38	14.81	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.2	14.63	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	17.24	14.67	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	17.22	14.65	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	17.23	14.66	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.13	14.56	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	17.29	14.72	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	17.3	14.73	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	17.38	14.81	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	17.27	14.7	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.08	19.51	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.16	19.59	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.17	19.6	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.17	18.6	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.9	19.33	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.23	19.66	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.24	19.67	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.34	18.77	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.06	19.49	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.23	19.66	38.45	PASS



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Band5	10MHz	QPSK	20600	1RB#49	22.31	19.74	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.22	18.65	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.18	18.61	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.26	18.69	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.3	18.73	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.14	17.57	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.29	18.72	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.38	18.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.4	18.83	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.32	17.75	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.33	18.76	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.35	18.78	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.47	18.9	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.17	17.6	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.15	17.58	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.33	17.76	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.32	17.75	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.1	16.53	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.41	17.84	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.4	17.83	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.39	17.82	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.3	16.73	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.38	17.81	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.36	17.79	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.42	17.85	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.12	16.55	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	17.25	14.68	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	17.34	14.77	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	17.17	14.6	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.22	14.65	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	17.24	14.67	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	17.19	14.62	38.45	PASS



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Report No.: SEWA2210000069RG01

Rev.: 01

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Band5	10MHz	256QAM	20525	1RB#49	17.26	14.69	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	17.19	14.62	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	17.22	14.65	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	17.26	14.69	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	17.39	14.82	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	17.04	14.47	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	4.90	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.42	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.44	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.64	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.04	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.02	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.34	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.34	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	5.98	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.56	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.32	13	PASS



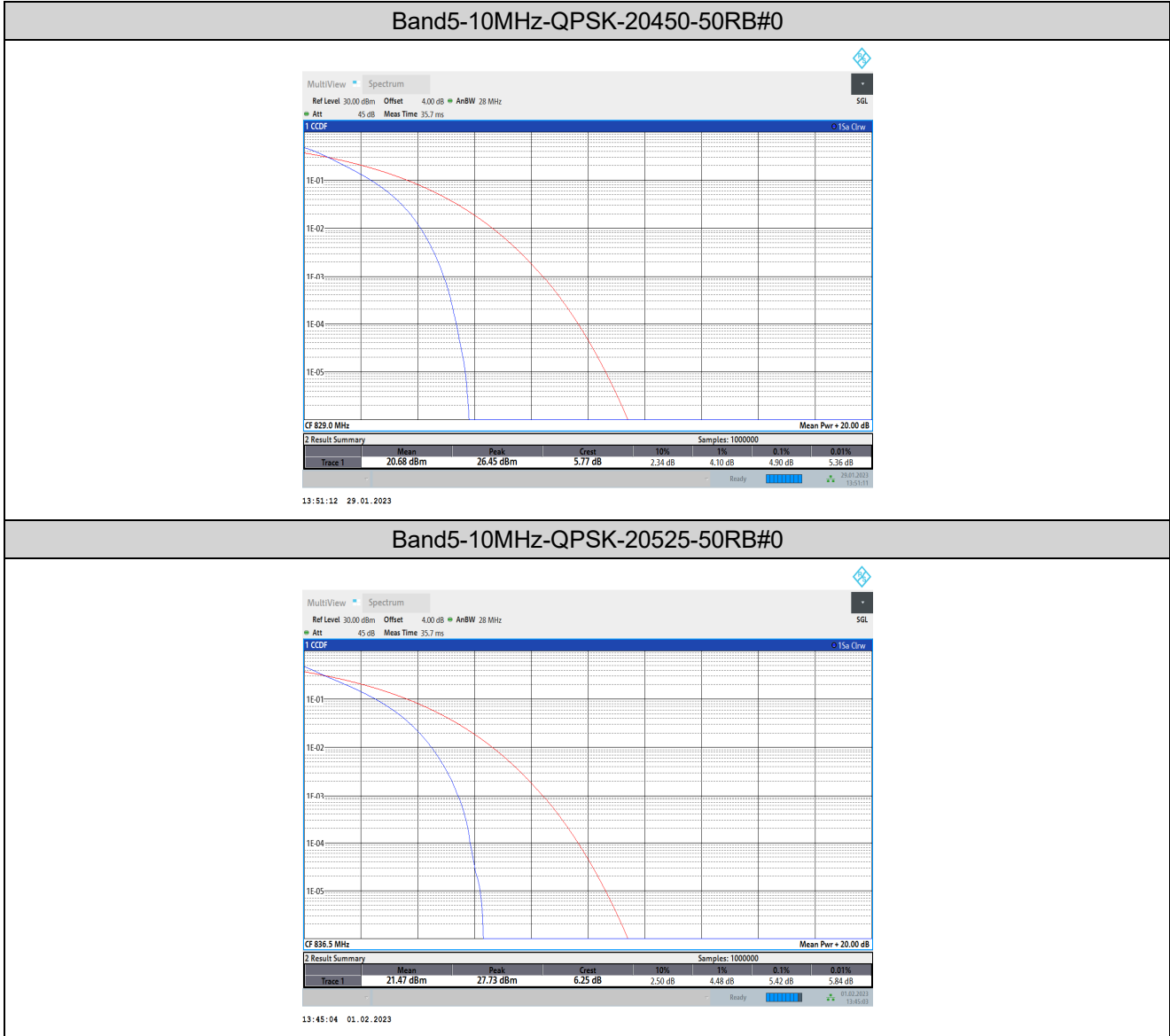
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Test Graphs

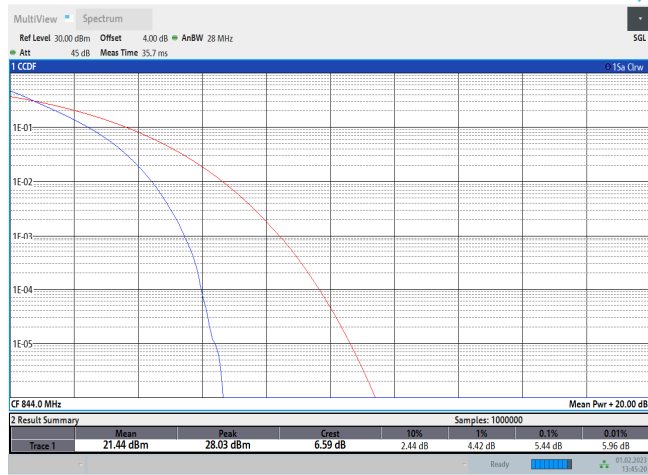


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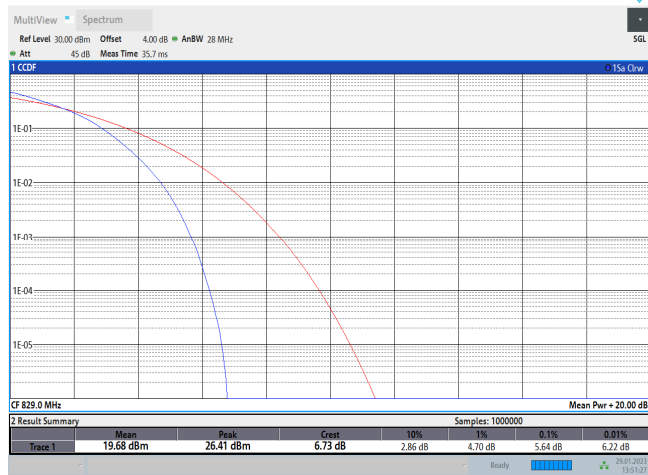
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Band5-10MHz-QPSK-20600-50RB#0



13:45:20 01.02.2023

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



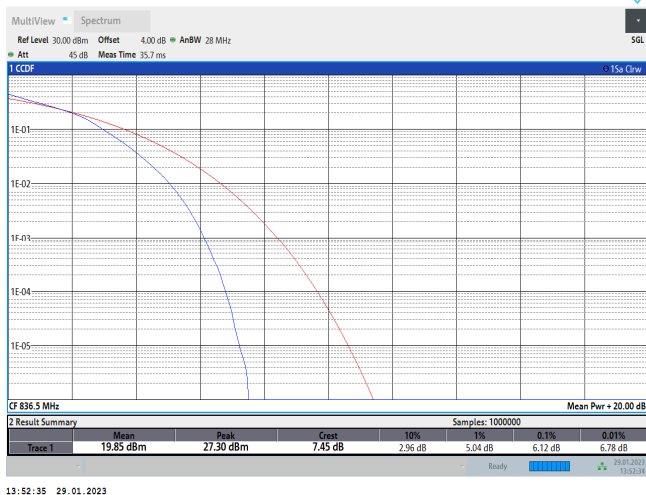
13:51:28 29.01.2023



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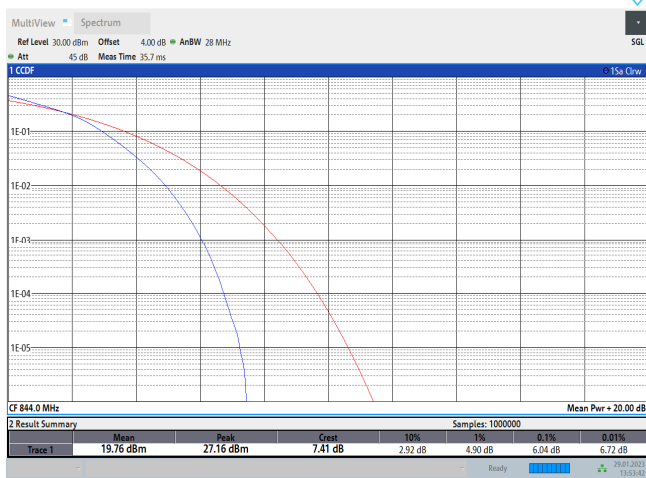
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Band5-10MHz-16QAM-20525-50RB#0



13:52:35 29.01.2023

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



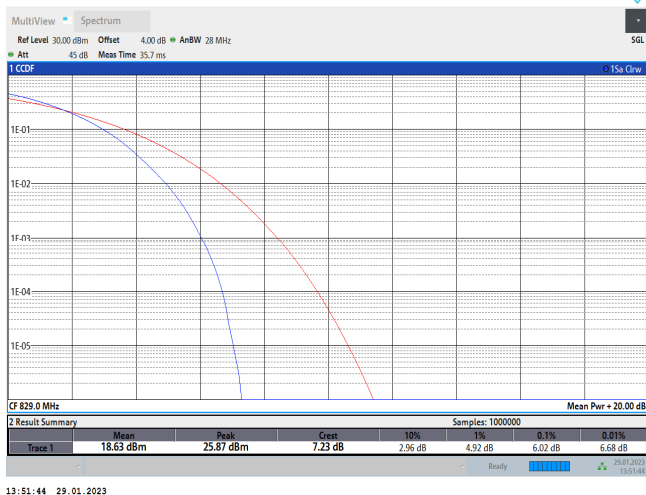
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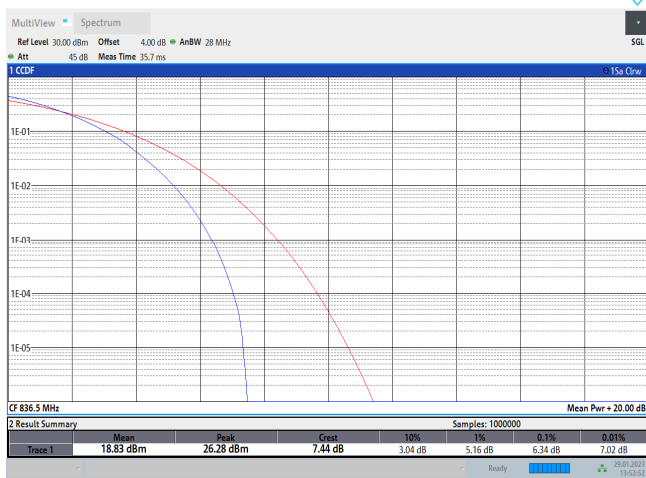
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Band5-10MHz-64QAM-20450-50RB#0



13:51:44 29.01.2023

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



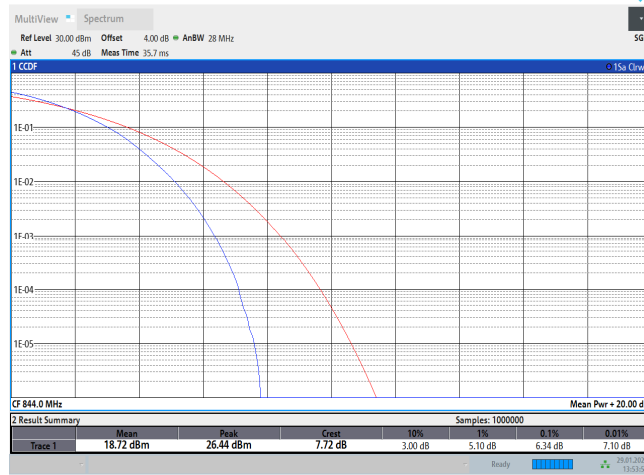
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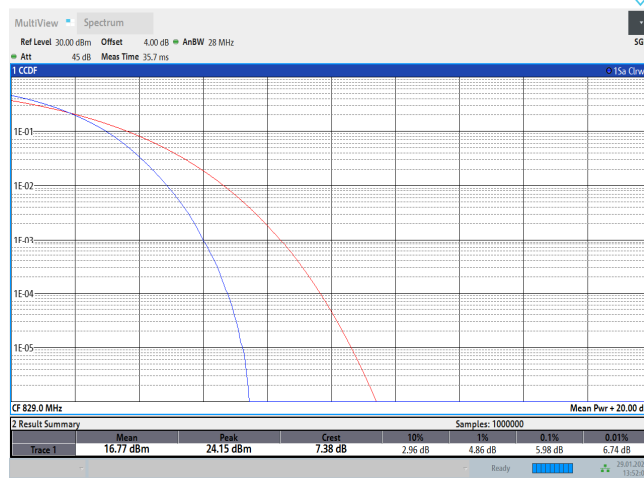
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Band5-10MHz-64QAM-20600-50RB#0



13:53:59 29.01.2023

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



13:52:00 29.01.2023

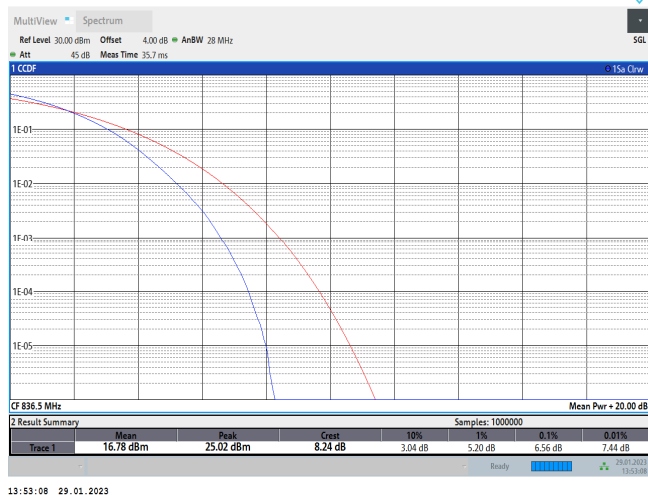


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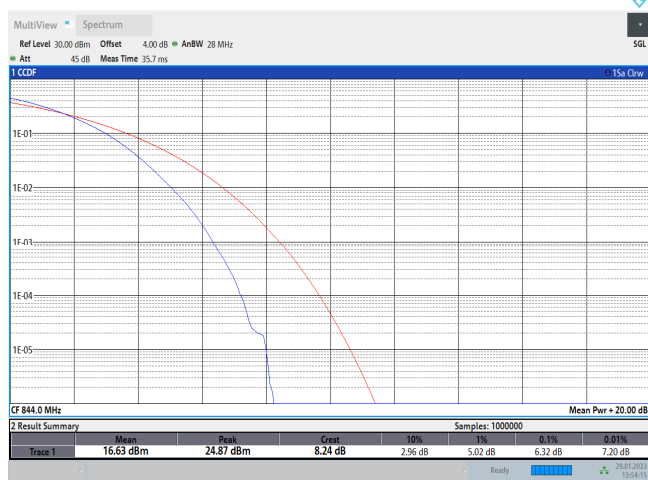
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Band5-10MHz-256QAM-20525-50RB#0



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Band5-10MHz-256QAM-20600-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	256QAM	20525	50RB#0	PASS	PASS



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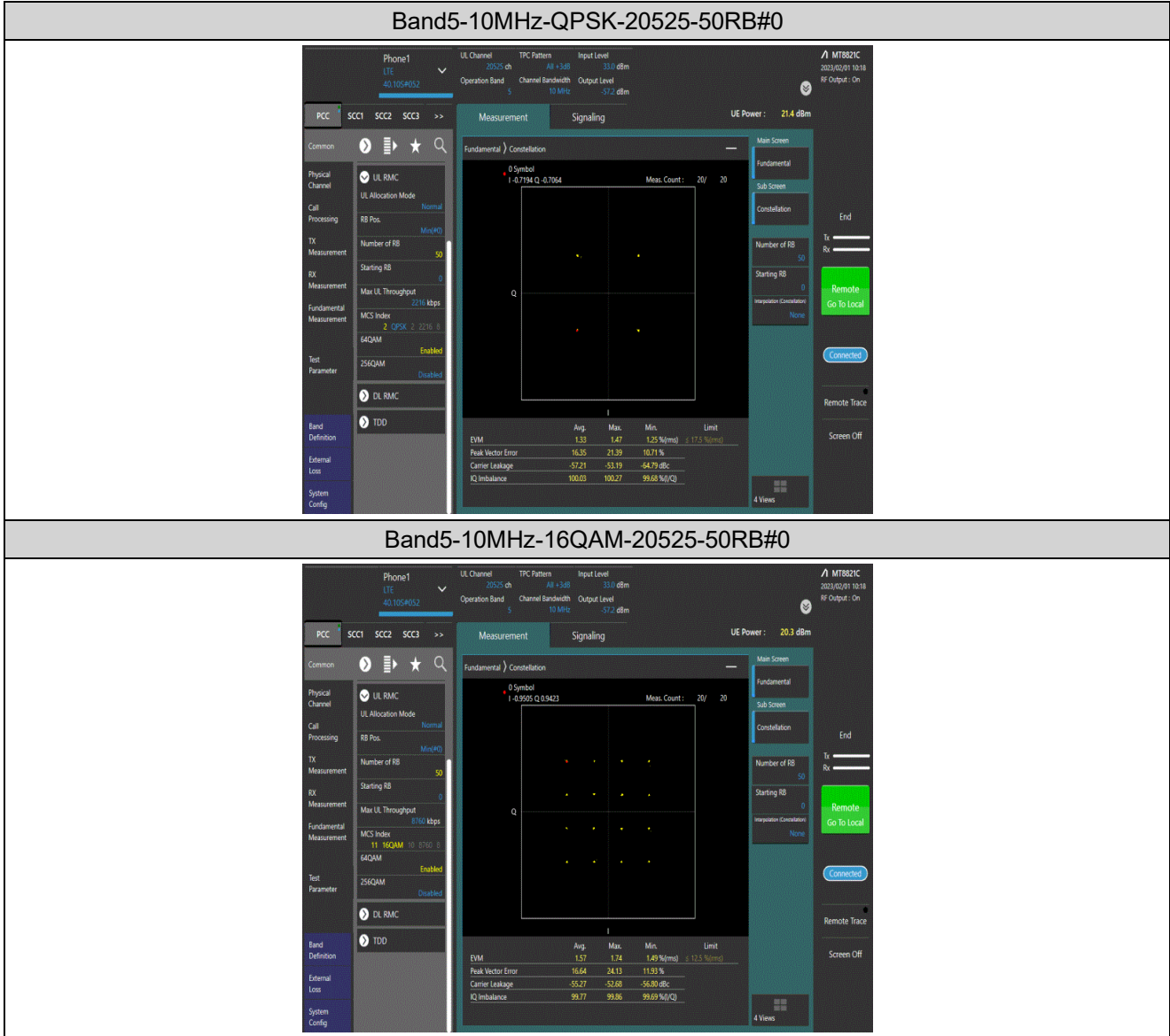
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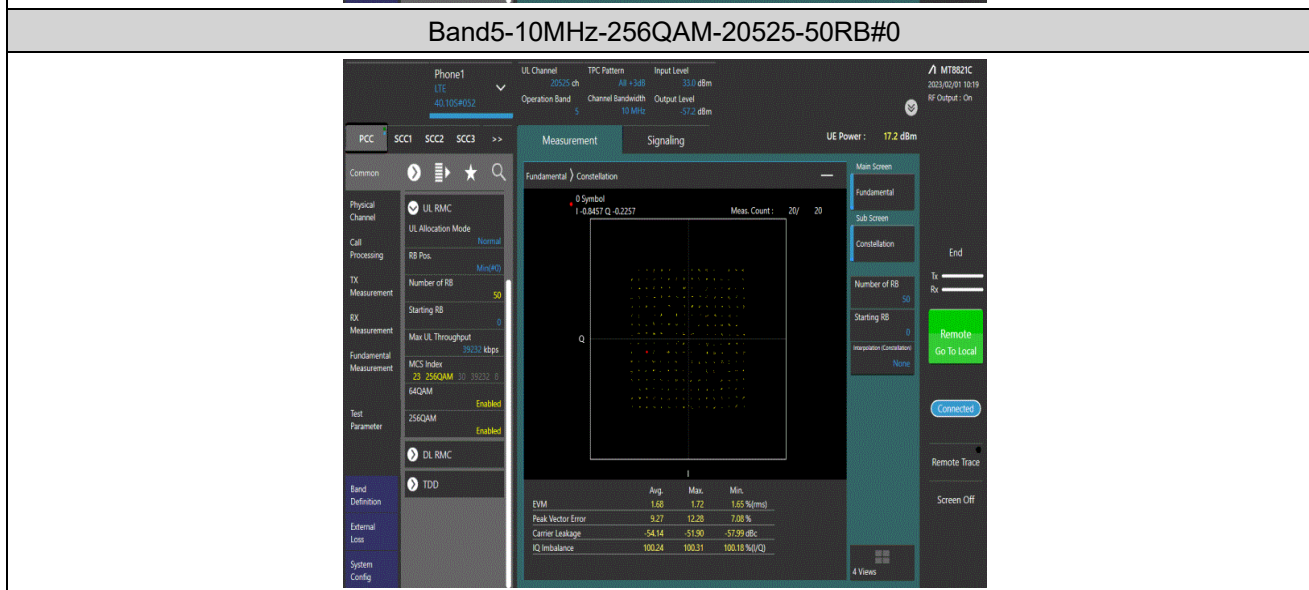
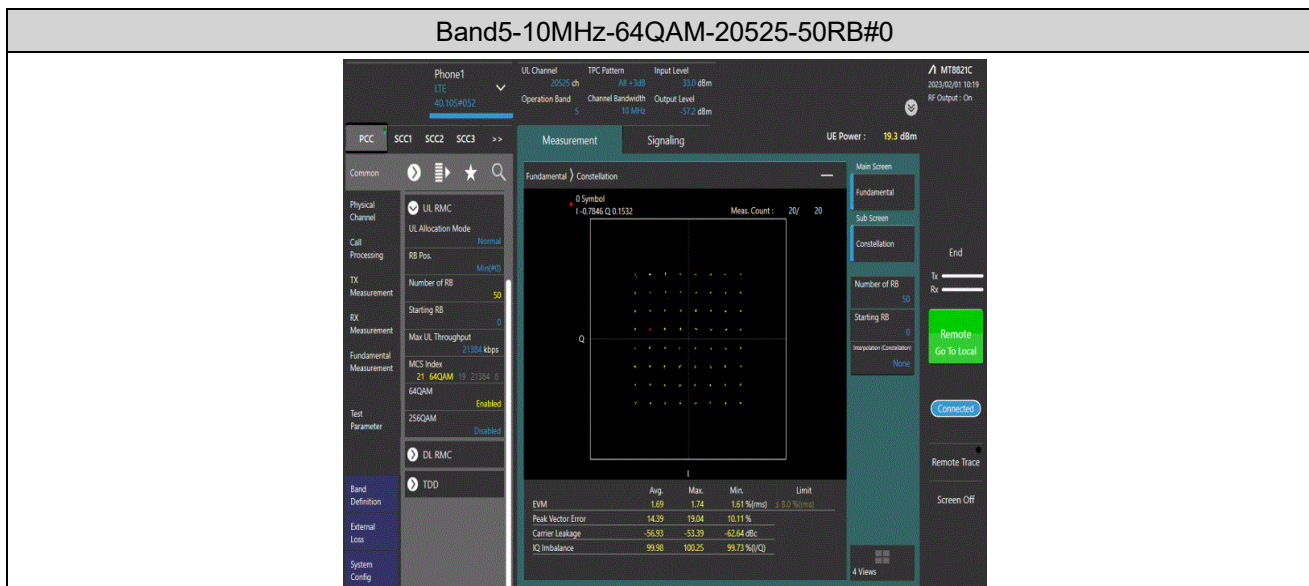
Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.092	1.27	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.093	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.096	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.093	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.093	1.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.35	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.095	1.31	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.087	1.29	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.089	1.28	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.695	2.94	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.695	2.92	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.69	2.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.689	2.92	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.92	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.689	2.92	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.93	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.684	2.92	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.686	2.93	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.688	2.93	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.689	2.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.46	4.86	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.465	4.83	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.462	4.84	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.84	PASS



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Band5	5MHz	16QAM	20625	25RB#0	4.466	4.83	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.83	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.475	4.88	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.47	4.86	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.464	4.84	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.472	4.82	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.468	4.85	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.926	9.60	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.939	9.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.913	9.48	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.921	9.60	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.938	9.74	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.899	9.56	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.927	9.58	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.957	9.72	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.926	9.58	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.921	9.58	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.946	9.68	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.912	9.70	PASS



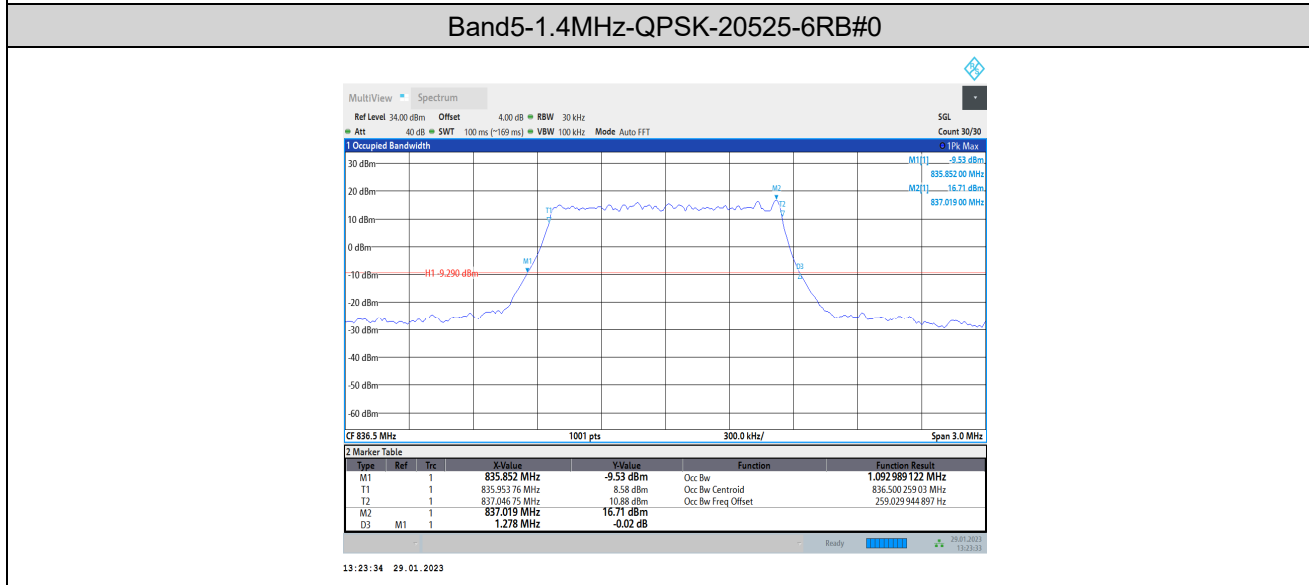
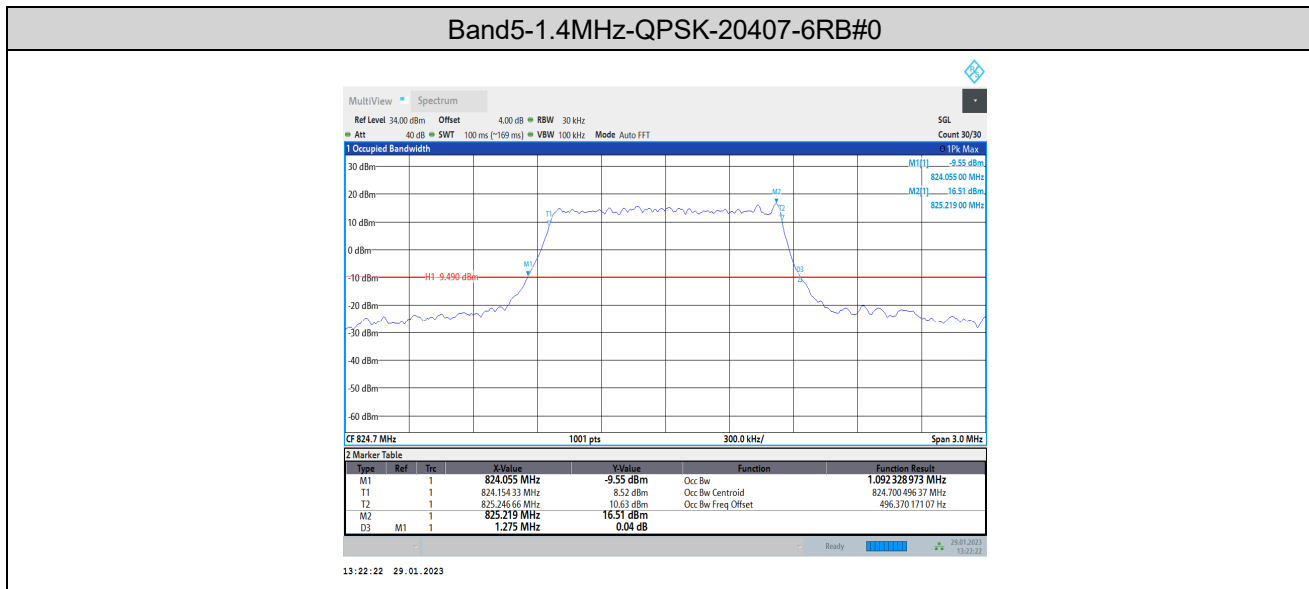
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Test Graphs

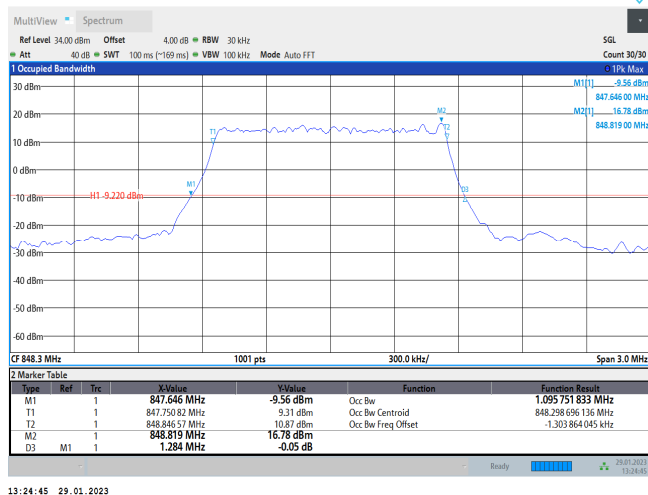


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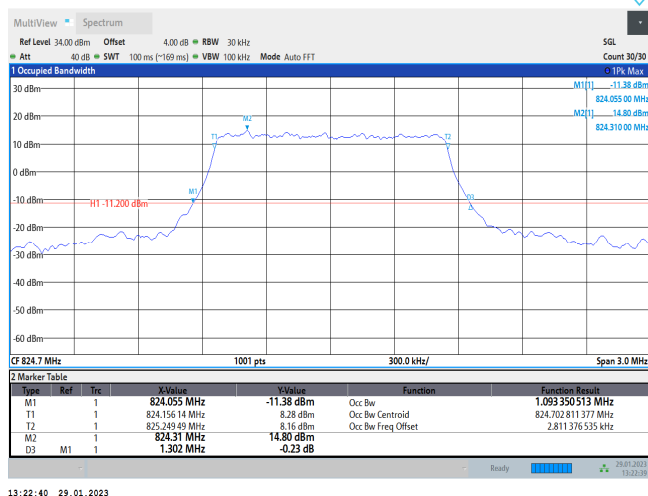
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Band5-1.4MHz-QPSK-20643-6RB#0



13:24:45 29.01.2023

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



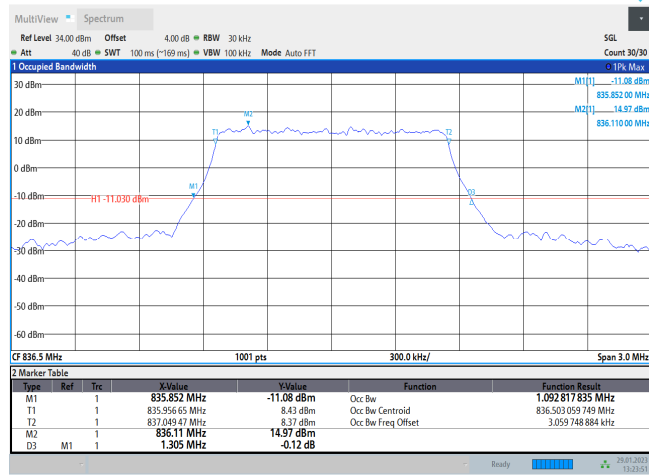
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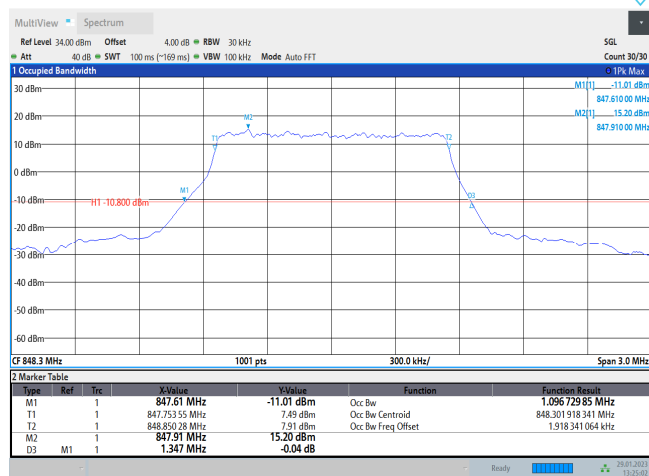
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Band5-1.4MHz-16QAM-20525-6RB#0



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



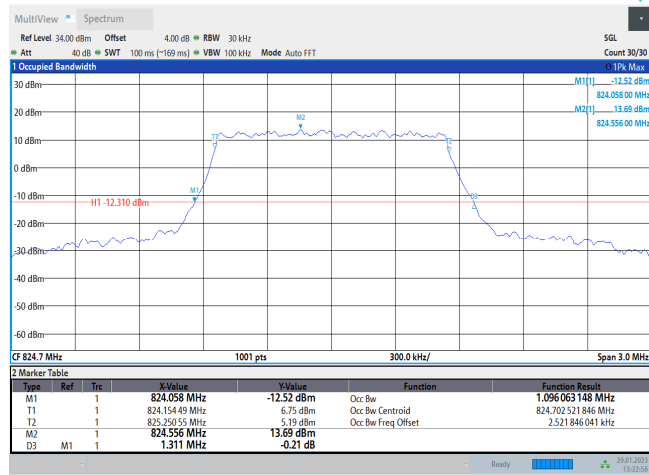
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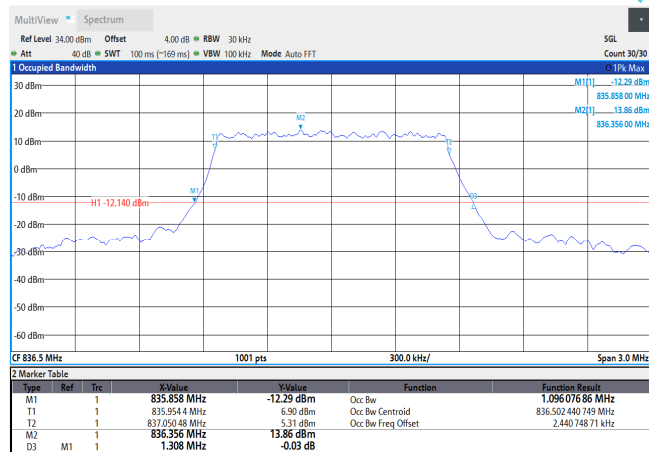
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Band5-1.4MHz-64QAM-20407-6RB#0



13:22:57 29.01.2023

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



13:24:08 29.01.2023

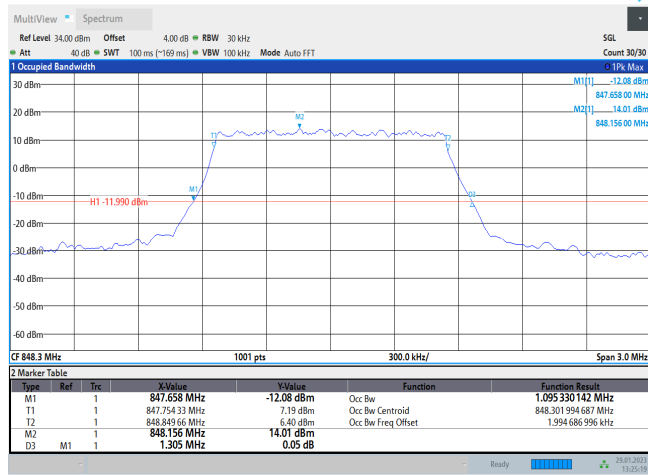


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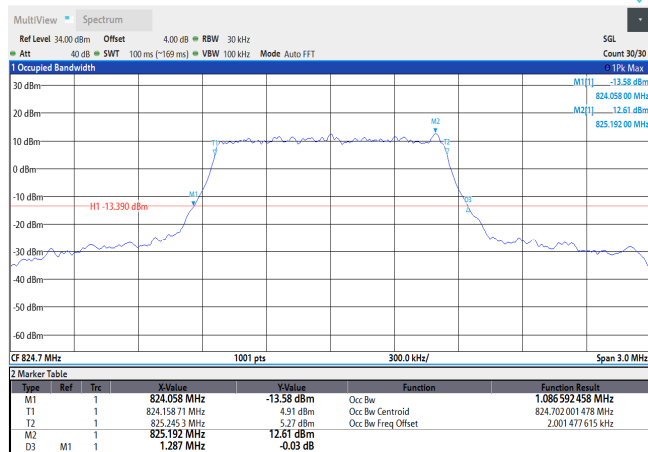


Band5-1.4MHz-64QAM-20643-6RB#0



13:25:20 29.01.2023

Band5-1.4MHz-256QAM-20407-6RB#0



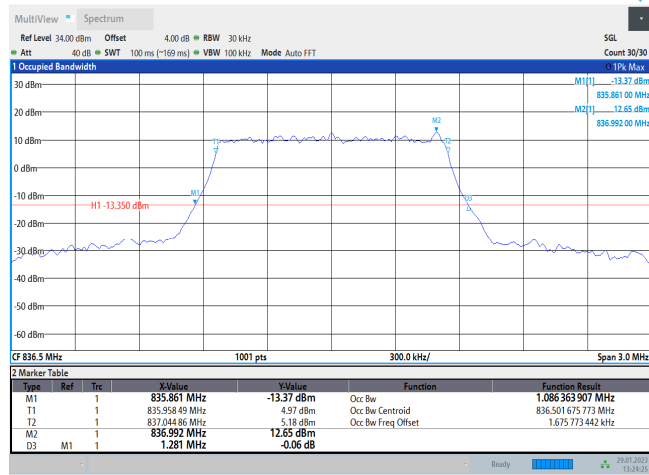
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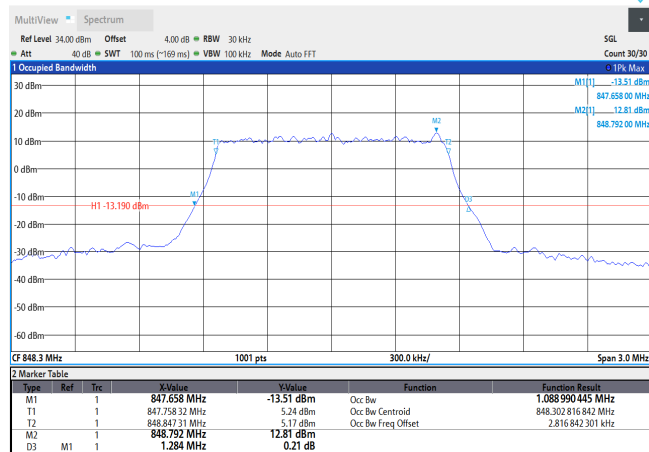
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Band5-1.4MHz-256QAM-20525-6RB#0



13:24:26 29.01.2023

Band5-1.4MHz-256QAM-20643-6RB#0



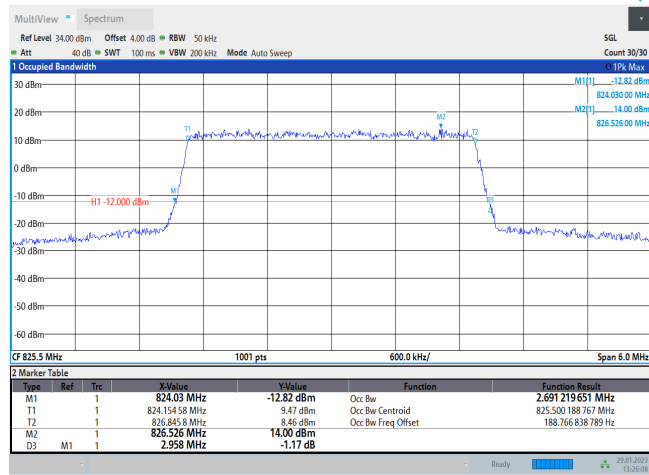
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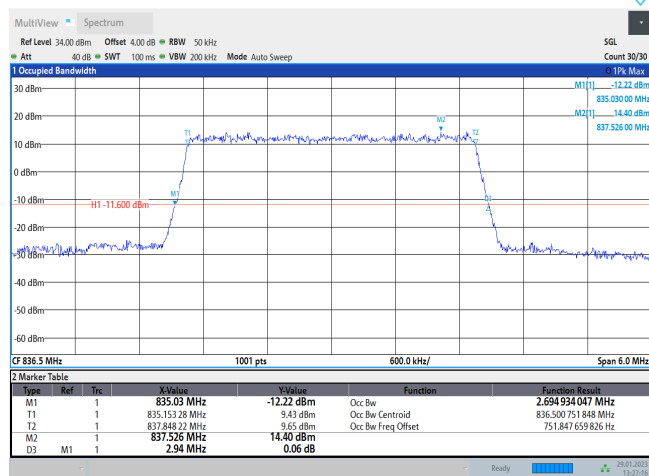
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Band5-3MHz-QPSK-20415-15RB#0



13:26:08 29.01.2023

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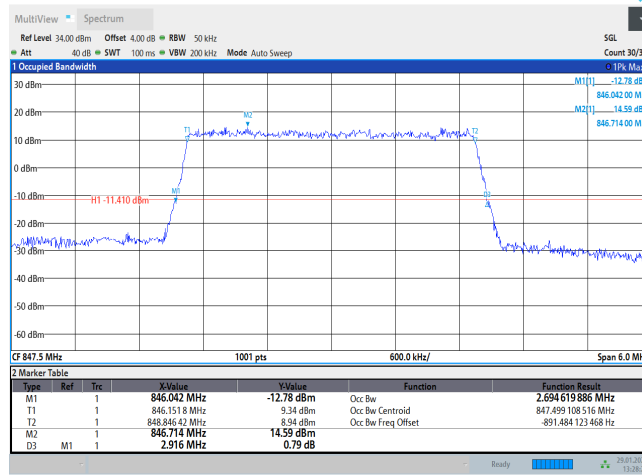
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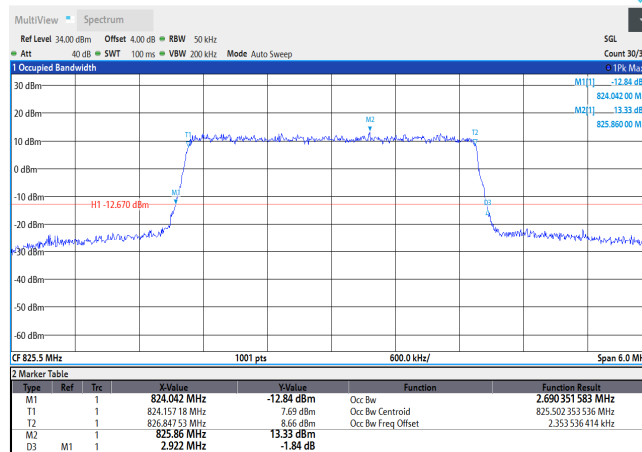
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Band5-3MHz-QPSK-20635-15RB#0



13:28:23 29.01.2023

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



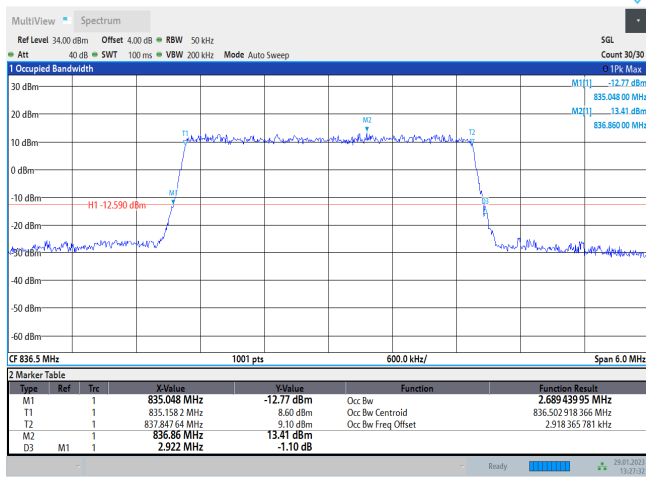
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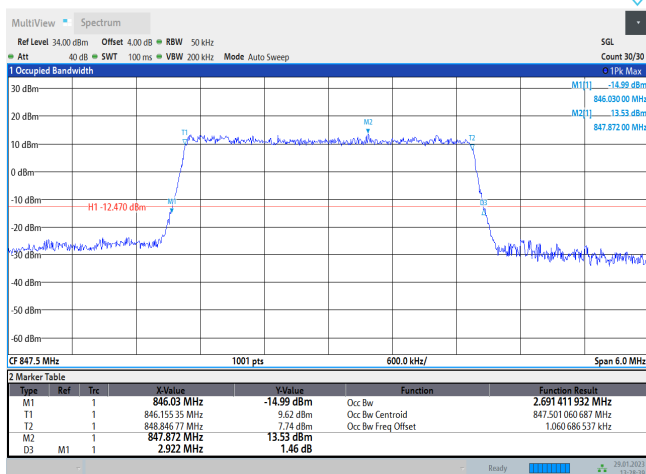
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Band5-3MHz-16QAM-20525-15RB#0



13:27:32 29.01.2023

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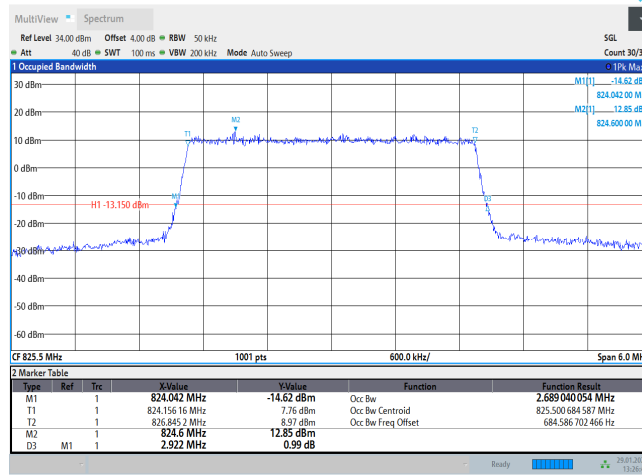
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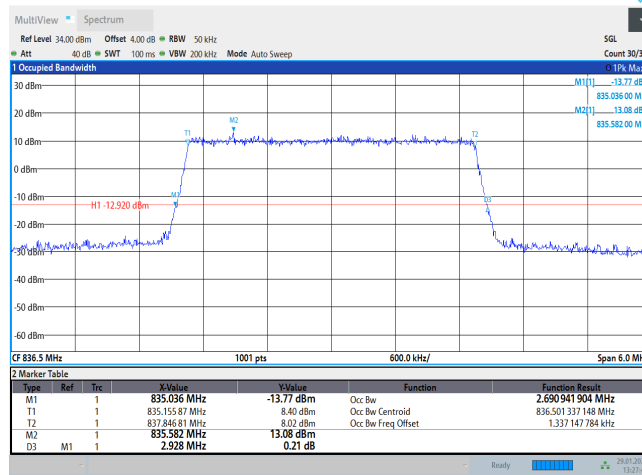
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Band5-3MHz-64QAM-20415-15RB#0



13:26:41 29.01.2023

Band5-3MHz-64QAM-20525-15RB#0



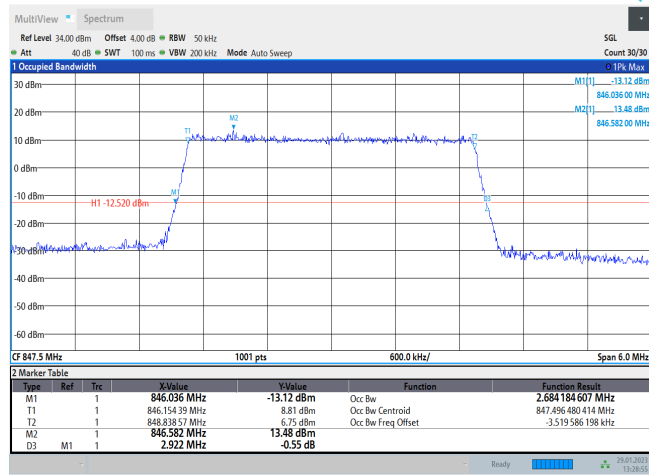
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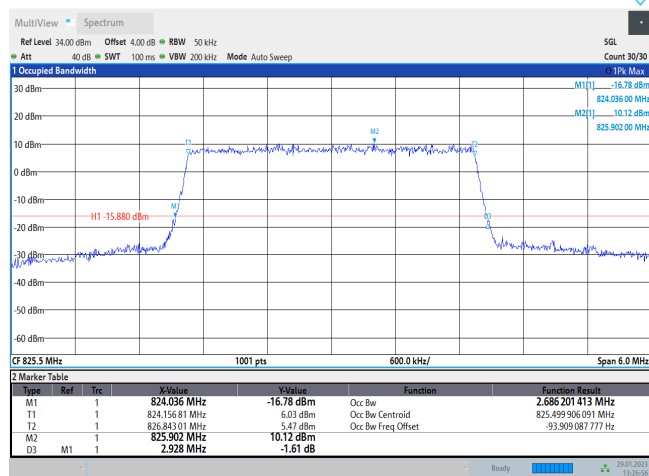
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Band5-3MHz-64QAM-20635-15RB#0



13:28:56 29.01.2023

Band5-3MHz-256QAM-20415-15RB#0



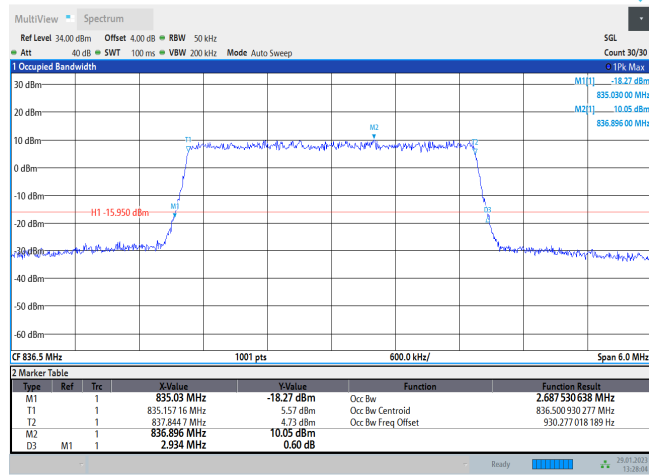
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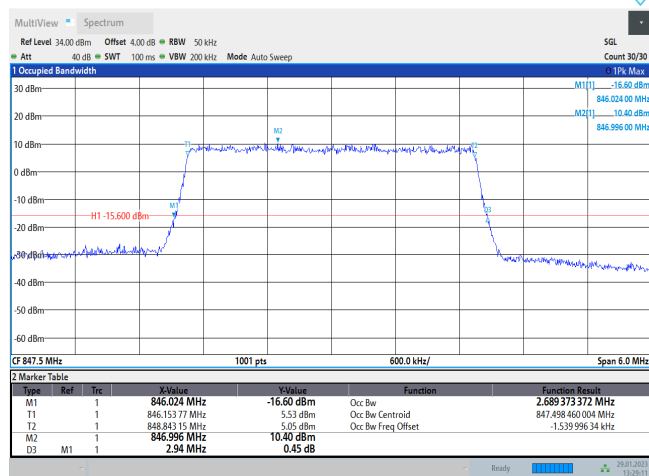
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Band5-3MHz-256QAM-20525-15RB#0



13:28:05 29.01.2023

Band5-3MHz-256QAM-20635-15RB#0



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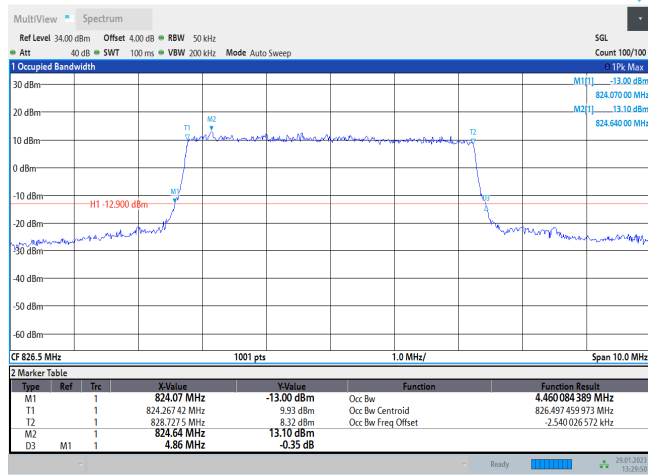


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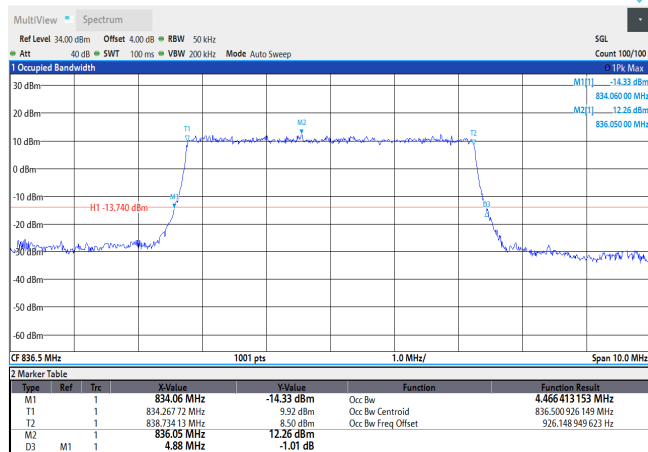


Band5-5MHz-QPSK-20425-25RB#0



13:29:50 29.01.2023

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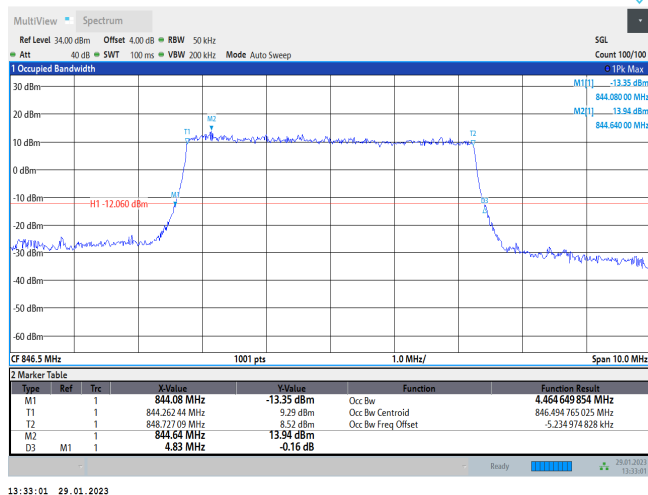
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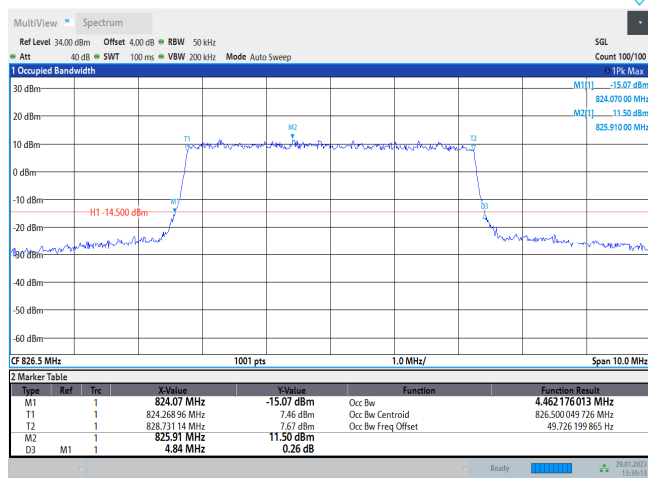
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Band5-5MHz-QPSK-20625-25RB#0



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Band5-5MHz-16QAM-20425-25RB#0



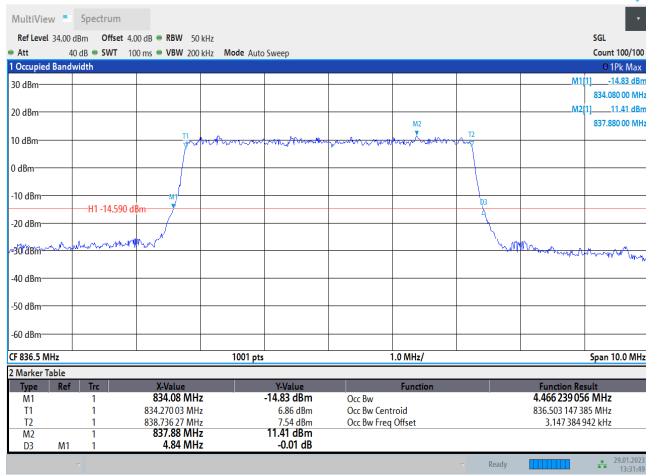
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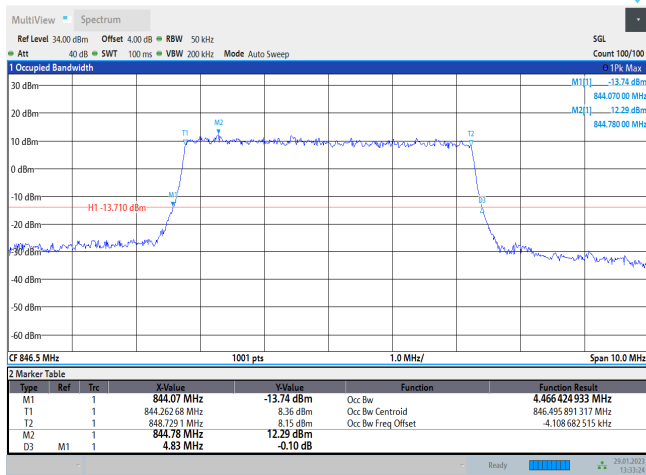
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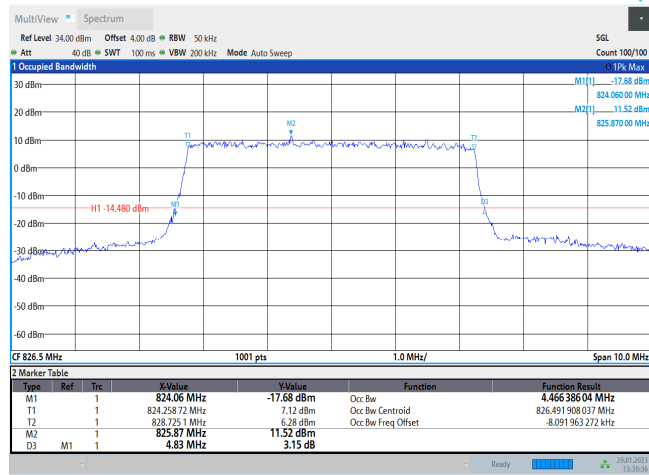
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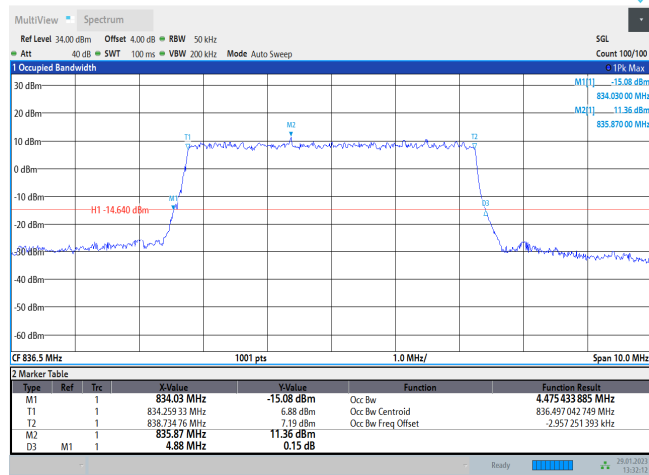
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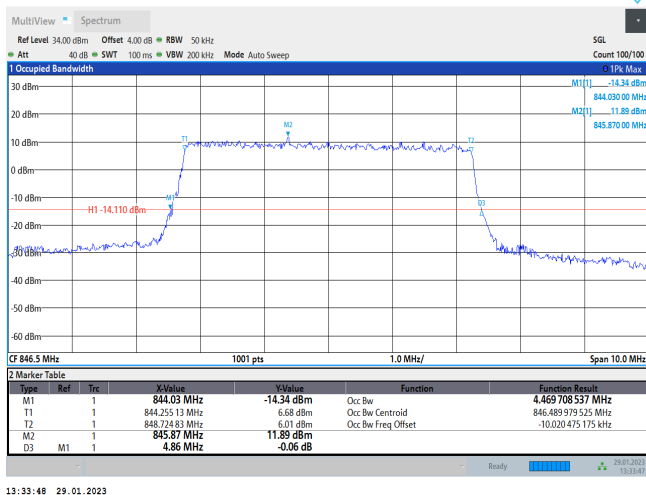
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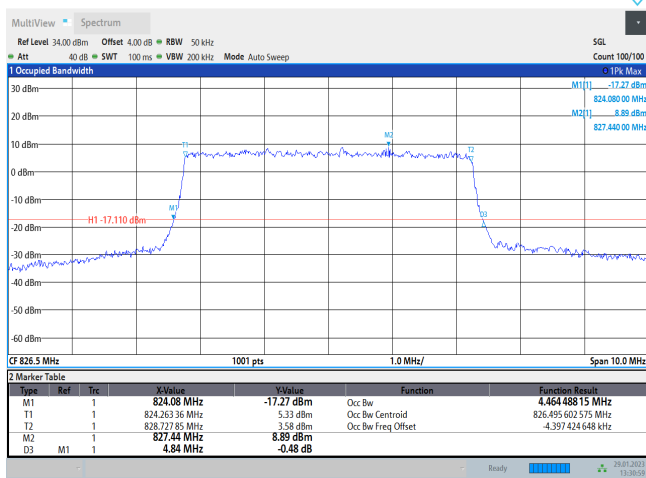
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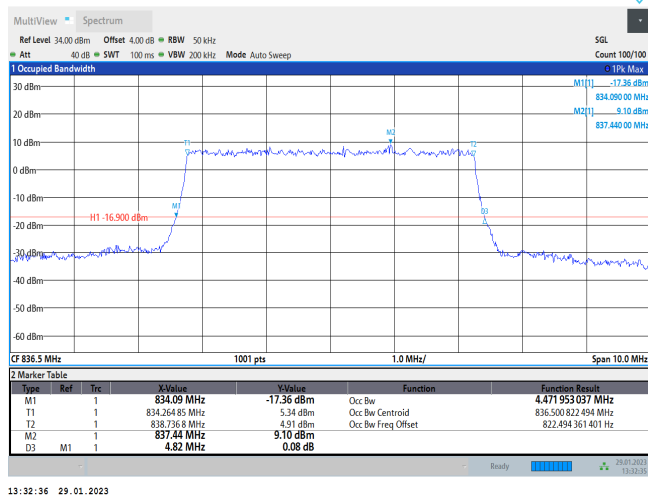
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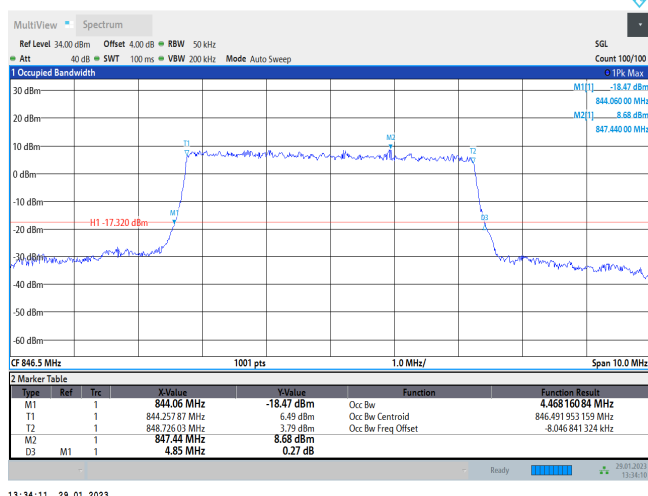
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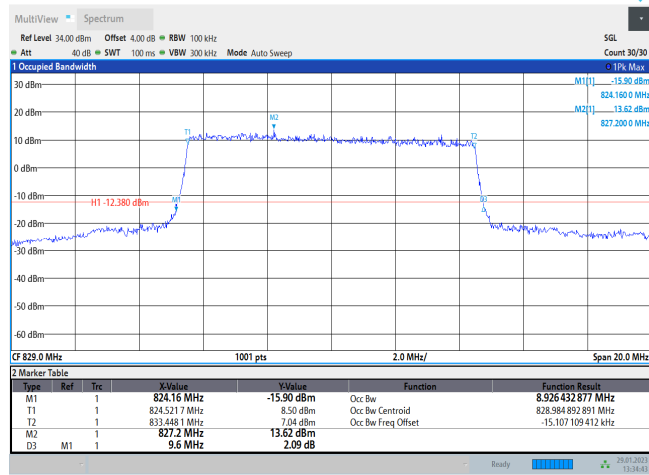
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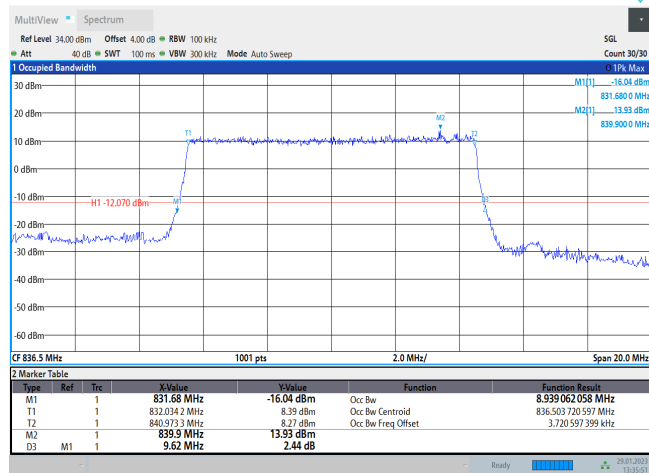
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Band5-10MHz-QPSK-20450-50RB#0



13:34:45 29.01.2023

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



13:35:52 29.01.2023

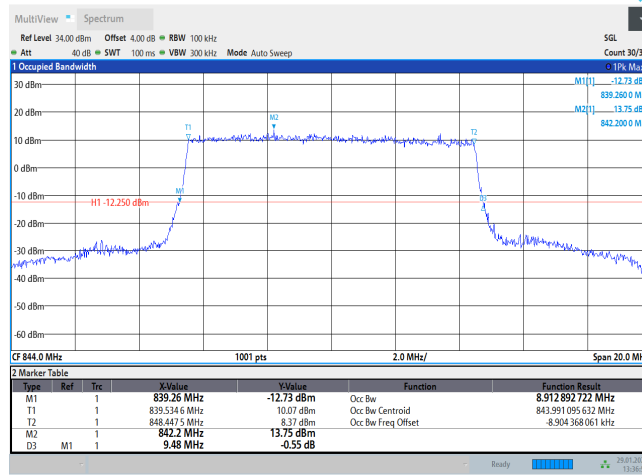


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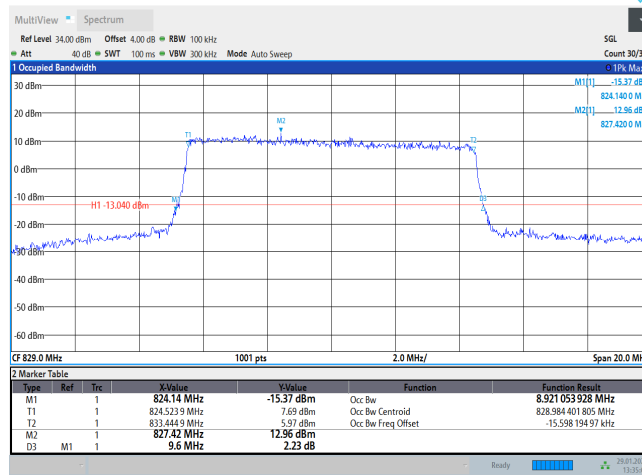
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Band5-10MHz-QPSK-20600-50RB#0



13:36:59 29.01.2023

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



13:35:01 29.01.2023

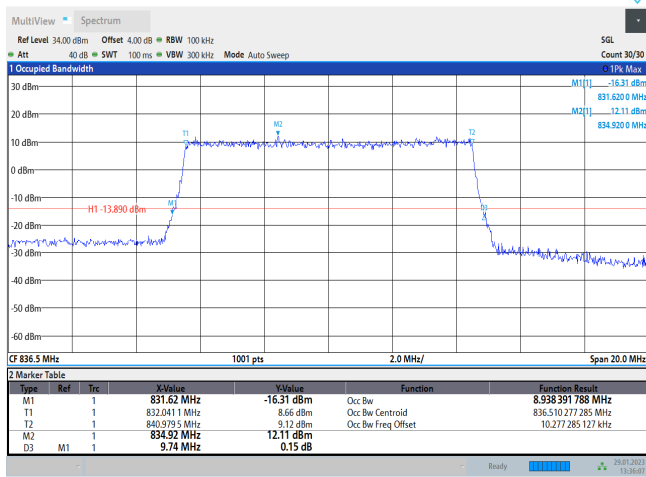


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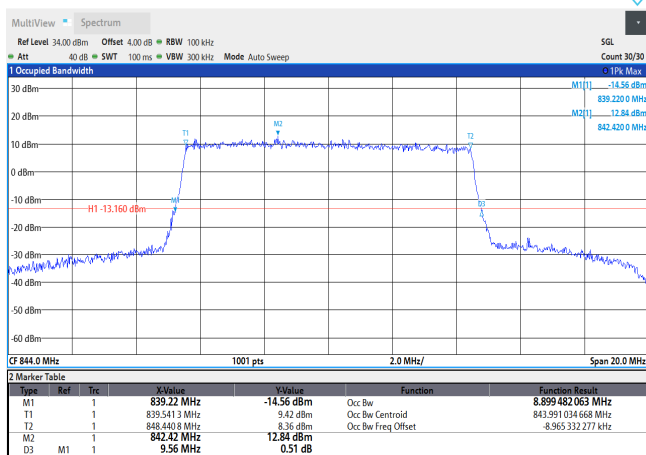


Band5-10MHz-16QAM-20525-50RB#0



13:36:08 29.01.2023

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



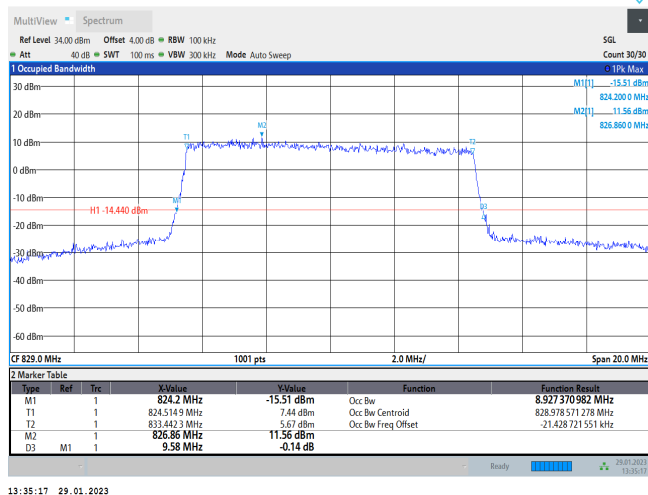
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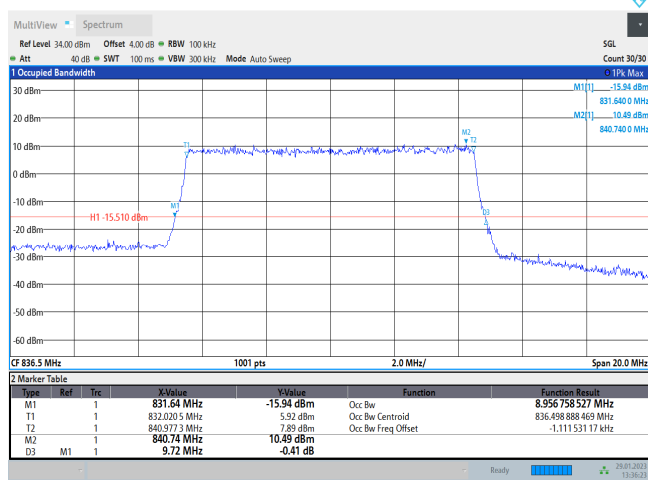
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Band5-10MHz-64QAM-20450-50RB#0



13:35:17 29.01.2023

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



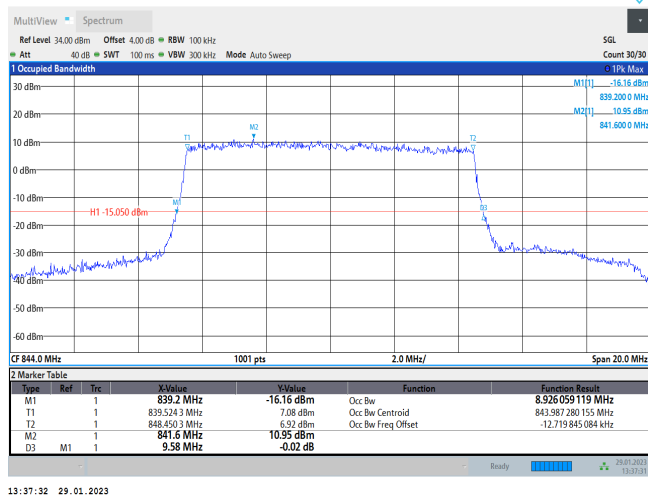
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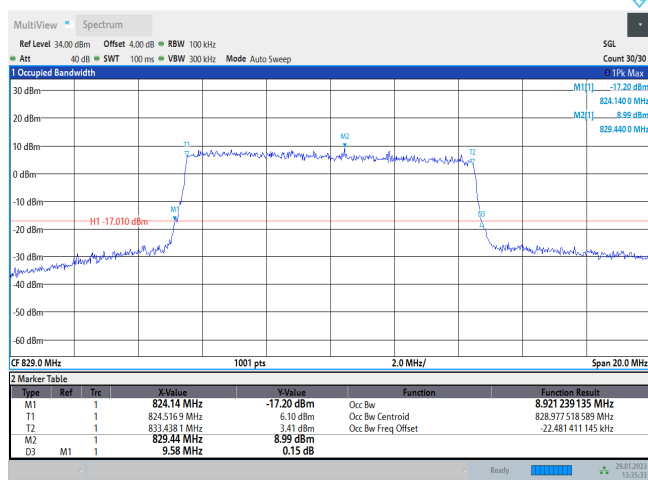
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Band5-10MHz-64QAM-20600-50RB#0



13:37:32 29.01.2023

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



13:35:33 29.01.2023

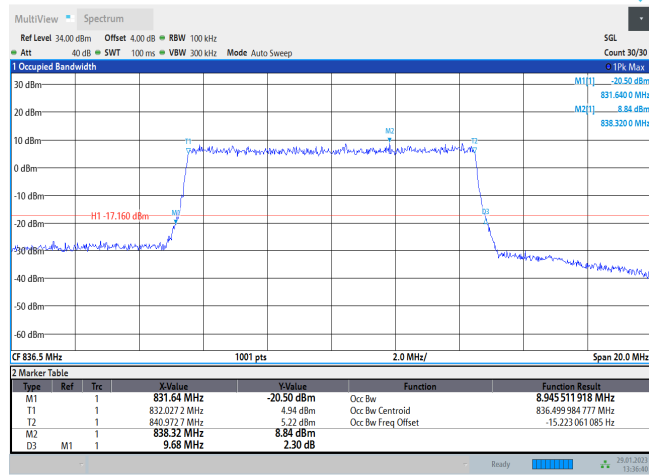


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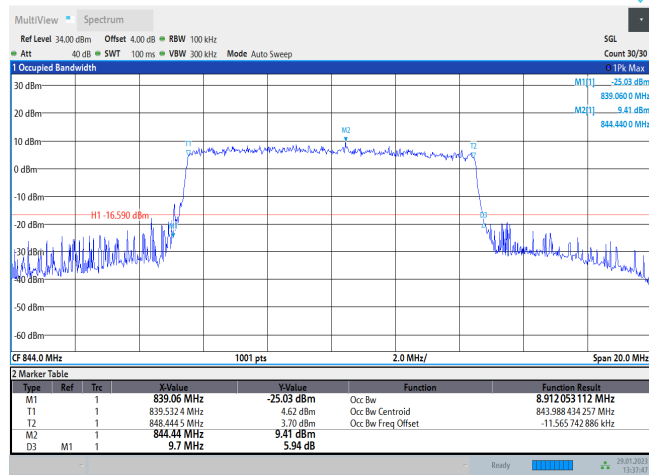
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Band5-10MHz-256QAM-20525-50RB#0



13:36:41 29.01.2023

Band5-10MHz-256QAM-20600-50RB#0



13:37:48 29.01.2023



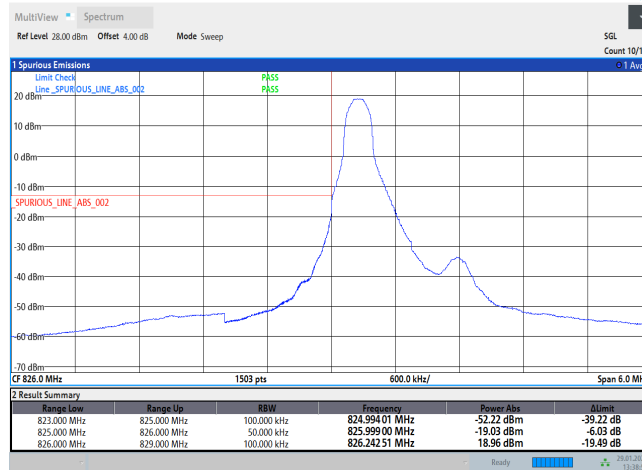
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## Band Edge

## Test Graphs

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



13:38:55 29.01.2023

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



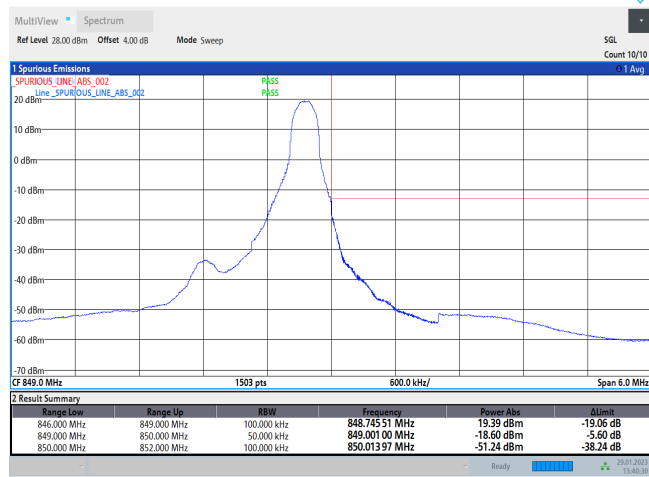
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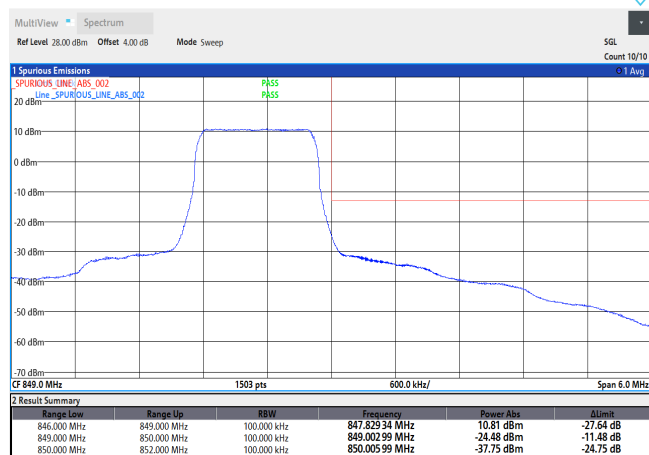
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Band5-1.4MHz-QPSK-20643-1RB#5



13:40:30 29.01.2023

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13:41:09 29.01.2023

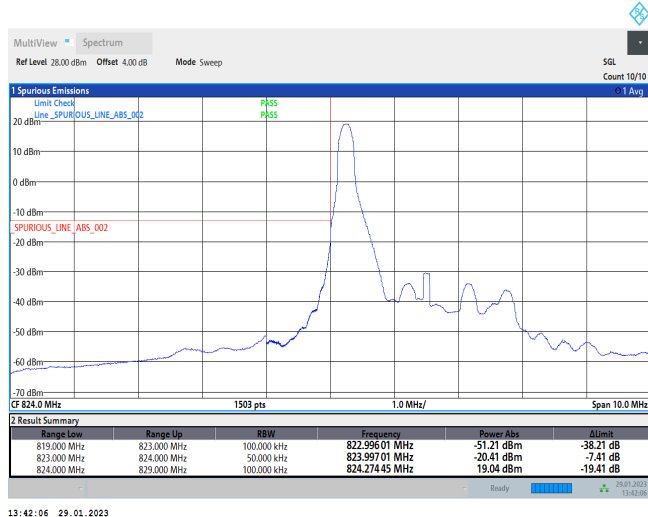


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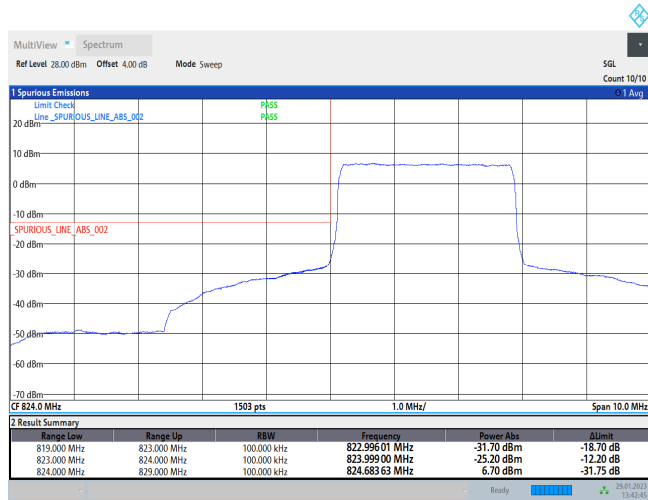
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Band5-3MHz-QPSK-20415-1RB#0



13:42:06 29.01.2023

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



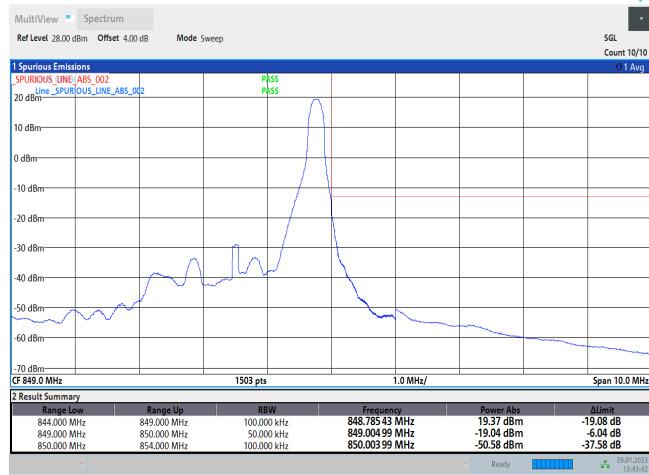
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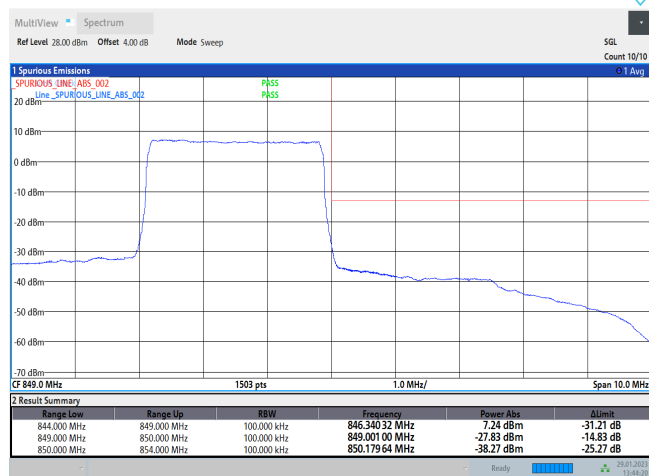
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Band5-3MHz-QPSK-20635-1RB#14



13:43:42 29.01.2023

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



13:44:20 29.01.2023

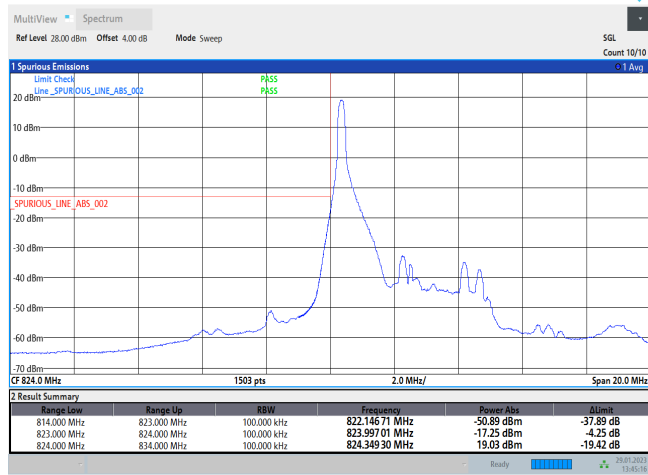


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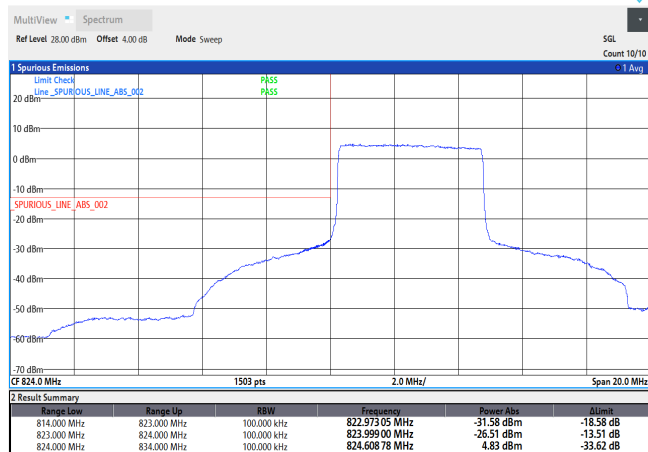


Band5-5MHz-QPSK-20425-1RB#0



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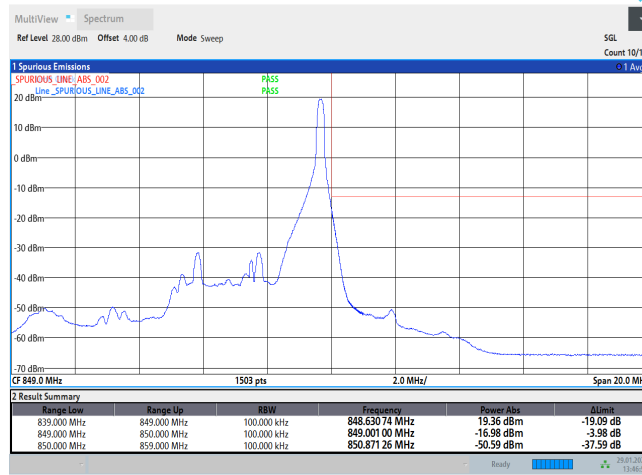
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Band5-5MHz-QPSK-20625-1RB#24



13:46:53 29.01.2023

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



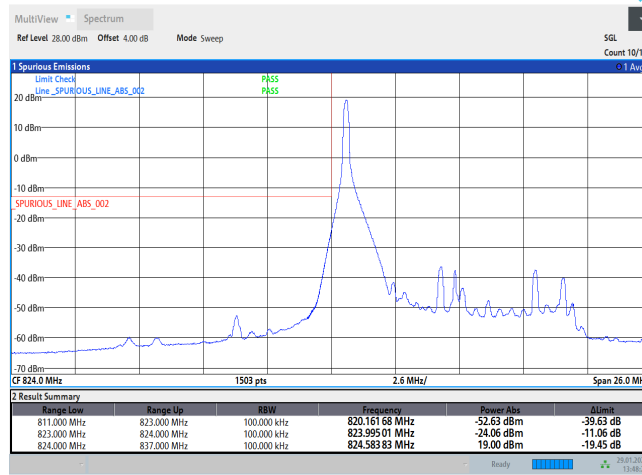
13:47:31 29.01.2023



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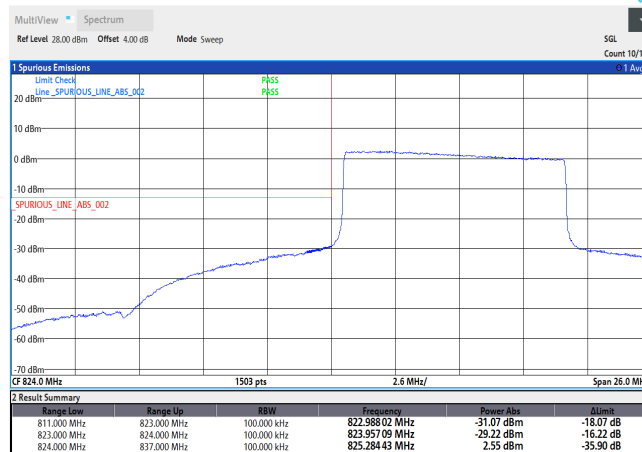
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Band5-10MHz-QPSK-20450-1RB#0



13:48:27 29.01.2023

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



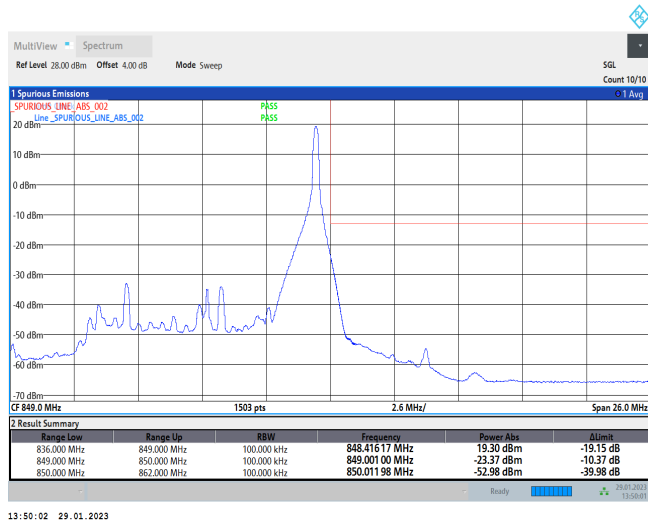
13:49:06 29.01.2023



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



13:50:02 29.01.2023

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



13:50:40 29.01.2023



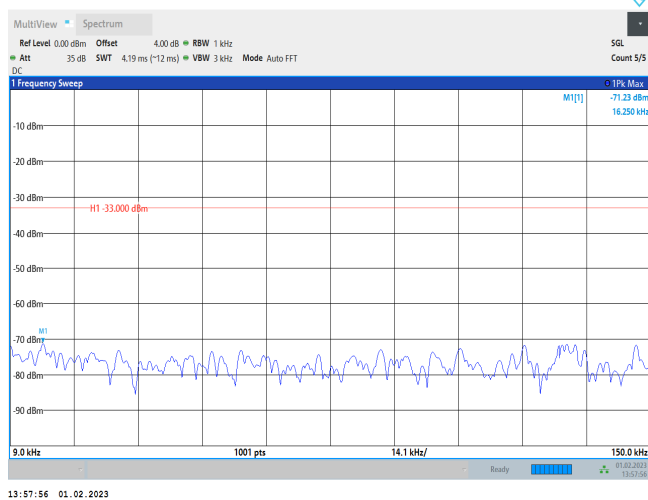
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## Conducted Spurious Emission

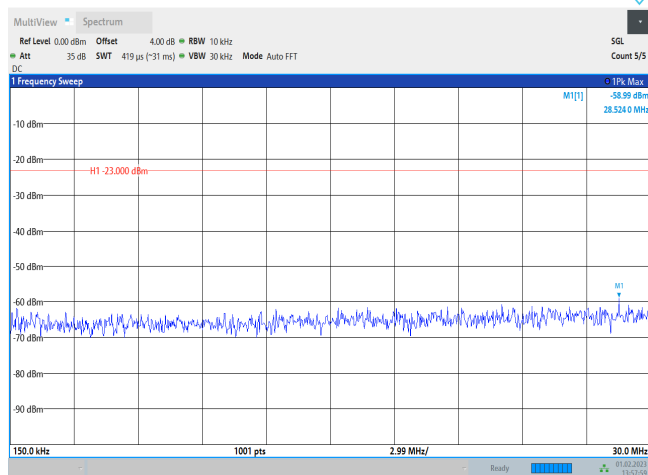
### Test Graphs

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



13:57:56 01.02.2023

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



13:58:00 01.02.2023

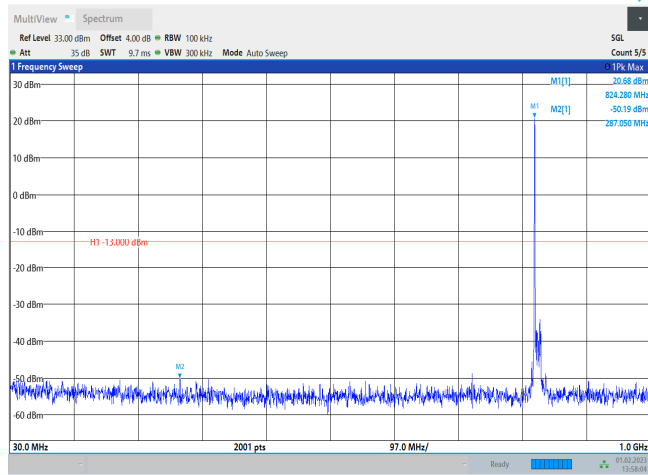


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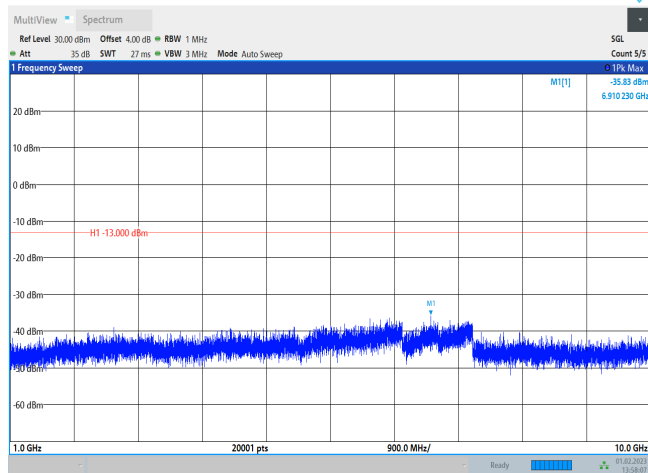
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



13:58:04 01.02.2023

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



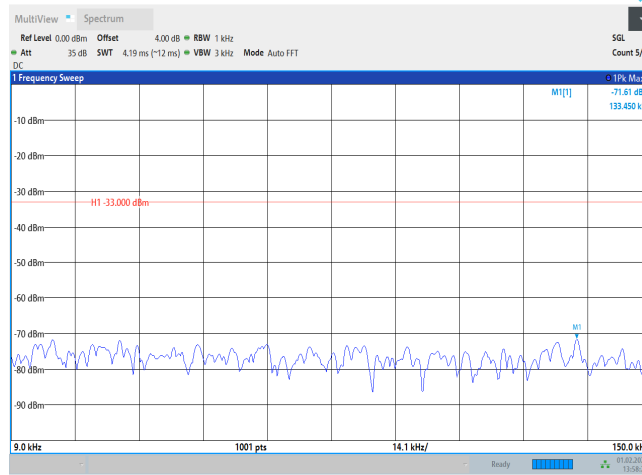
13:58:08 01.02.2023



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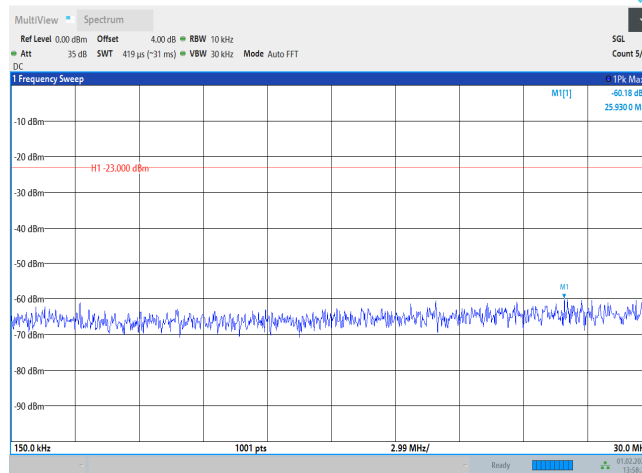
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



13:58:21 01.02.2023

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



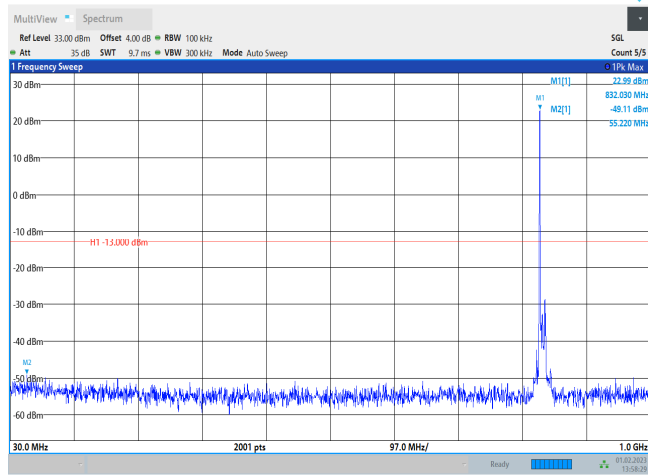
13:58:25 01.02.2023



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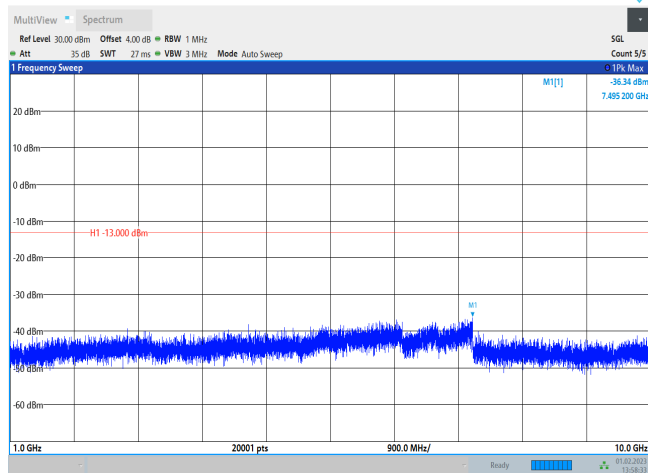
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



13:58:29 01.02.2023

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



13:58:33 01.02.2023



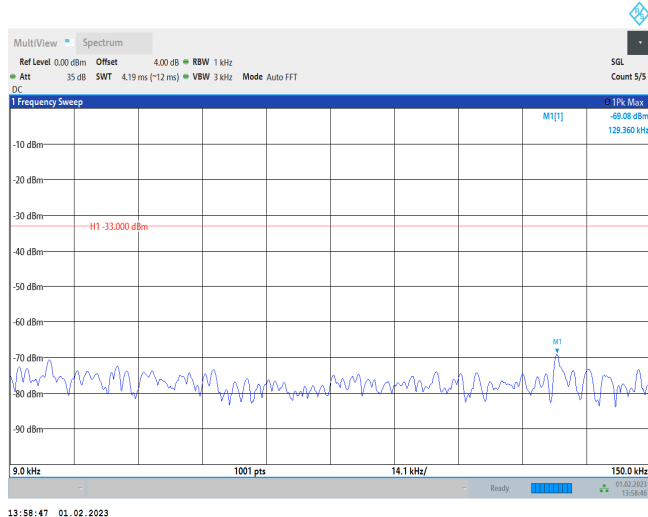
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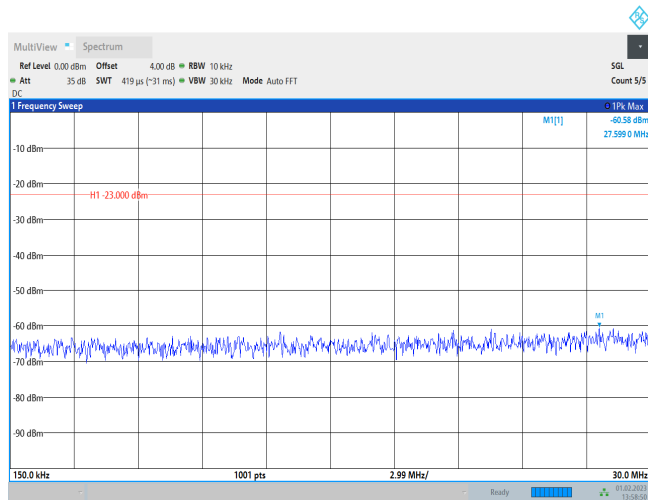


Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



13:58:47 01.02.2023

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



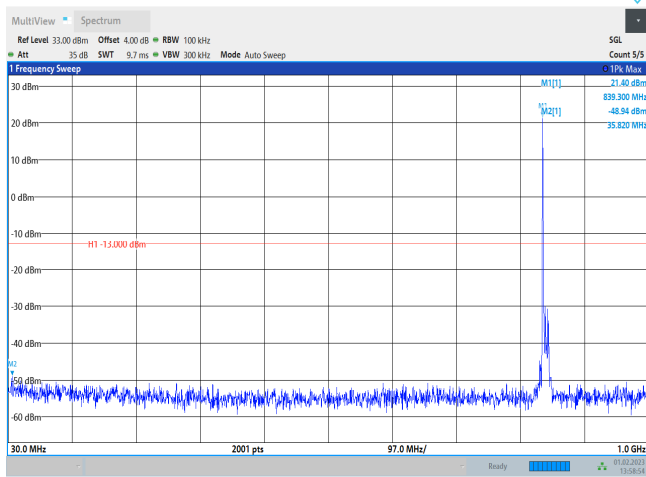
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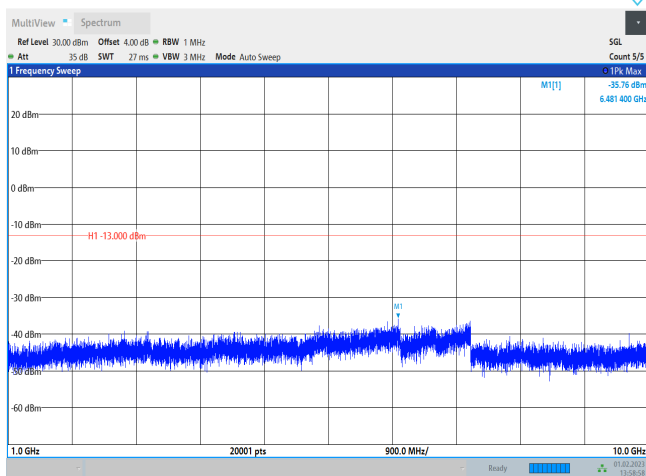
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



13:58:55 01.02.2023

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



13:58:59 01.02.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band5\_10MHz\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	43.20	-48.22	25.37	-74.91	-13.00	61.91	128	135	Horizontal
2	2473.7700	42.34	-47.32	27.69	-72.55	-13.00	59.55	174	81	Horizontal
3	3298.3600	42.41	-46.68	29.56	-69.97	-13.00	56.97	136	201	Horizontal
4	4122.9500	41.14	-45.91	30.99	-69.05	-13.00	56.05	256	322	Horizontal
5	4947.5400	40.64	-45.69	32.73	-67.58	-13.00	54.58	291	4	Horizontal
6	5772.1300	41.11	-44.64	33.65	-65.14	-13.00	52.14	112	41	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	43.15	-48.22	25.37	-74.96	-13.00	61.96	284	92	Vertical
2	2473.7700	42.44	-47.32	27.69	-72.45	-13.00	59.45	174	292	Vertical
3	3298.3600	42.19	-46.68	29.56	-70.19	-13.00	57.19	156	198	Vertical
4	4122.9500	41.79	-45.91	30.99	-68.40	-13.00	55.40	236	198	Vertical
5	4947.5400	41.72	-45.69	32.73	-66.50	-13.00	53.50	251	292	Vertical
6	5772.1300	39.77	-44.64	33.65	-66.48	-13.00	53.48	199	360	Vertical



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**Test Band = LTE Band5\_10MHz\_TM1**

**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	42.33	-48.20	25.38	-75.76	-13.00	62.76	148	320	Horizontal
2	2496.2700	42.62	-47.28	27.76	-72.16	-13.00	59.16	175	295	Horizontal
3	3328.3600	42.50	-46.64	29.52	-69.88	-13.00	56.88	136	307	Horizontal
4	4160.4500	41.09	-45.94	31.04	-69.07	-13.00	56.07	259	56	Horizontal
5	4992.5400	40.01	-45.79	32.86	-68.18	-13.00	55.18	166	42	Horizontal
6	5824.6300	40.05	-44.74	33.80	-66.15	-13.00	53.15	172	228	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	42.40	-48.20	25.38	-75.69	-13.00	62.69	136	360	Vertical
2	2496.2700	42.20	-47.28	27.76	-72.58	-13.00	59.58	251	93	Vertical
3	3328.3600	42.18	-46.64	29.52	-70.20	-13.00	57.20	174	53	Vertical
4	4160.4500	40.70	-45.94	31.04	-69.46	-13.00	56.46	145	79	Vertical
5	4992.5400	40.25	-45.79	32.86	-67.94	-13.00	54.94	159	38	Vertical
6	5824.6300	39.29	-44.74	33.80	-66.91	-13.00	53.91	169	64	Vertical



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**Test Band = LTE Band5\_10MHz\_TM1**

**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	43.21	-48.18	25.38	-74.85	-13.00	61.85	225	82	Horizontal
2	2518.7700	42.62	-47.21	27.83	-72.01	-13.00	59.01	174	187	Horizontal
3	3358.3600	42.76	-46.60	29.48	-69.62	-13.00	56.62	159	148	Horizontal
4	4197.9500	41.37	-45.96	31.10	-68.75	-13.00	55.75	168	280	Horizontal
5	5037.5400	39.83	-45.65	32.90	-68.18	-13.00	55.18	192	356	Horizontal
6	5887.1300	40.05	-44.93	33.92	-66.22	-13.00	53.22	114	16	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	43.30	-48.18	25.38	-74.76	-13.00	61.76	163	142	Vertical
2	2518.7700	42.53	-47.21	27.83	-72.10	-13.00	59.10	258	23	Vertical
3	3358.3600	41.86	-46.60	29.48	-70.52	-13.00	57.52	174	266	Vertical
4	4197.9500	40.57	-45.96	31.10	-69.55	-13.00	56.55	169	359	Vertical
5	5037.5400	39.99	-45.65	32.90	-68.02	-13.00	55.02	183	148	Vertical
6	5887.1300	40.68	-44.93	33.92	-65.59	-13.00	52.59	216	238	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.50	-0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.00	-0.005977	±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	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-3.00	-0.003586	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.90	-0.004662	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-6.10	-0.007292	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.70	-0.005619	±2.5	PASS

---End of Attachment---



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