

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	23.77	23.23	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.79	23.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.8	23.26	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.87	22.33	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.81	23.27	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.81	23.27	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.79	23.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.87	22.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.69	23.15	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.73	23.19	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.72	23.18	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.78	22.24	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.03	22.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.02	22.48	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.04	22.5	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.87	21.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.03	22.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.01	22.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.98	22.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.86	21.32	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.92	22.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.96	22.42	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.88	22.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.74	21.2	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.97	21.43	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22	21.46	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22	21.46	38.45	PASS



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Wireless Laboratories

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Band5	1.4MHz	64QAM	20407	6RB#0	20.78	20.24	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.01	21.47	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.08	21.54	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.88	21.34	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.75	20.21	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.9	21.36	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.86	21.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.88	21.34	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.69	20.15	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.96	18.42	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	18.9	18.36	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	18.89	18.35	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	18.86	18.32	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	18.58	18.04	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	18.96	18.42	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	18.89	18.35	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	18.79	18.25	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.63	18.09	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	18.79	18.25	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	18.82	18.28	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.72	18.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.81	23.27	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.82	23.28	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.82	23.28	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.86	22.32	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.87	23.33	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.79	23.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.79	23.25	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.86	22.32	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.75	23.21	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.7	23.16	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.7	23.16	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	22.8	22.26	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23	22.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.05	22.51	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23	22.46	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.84	21.3	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.02	22.48	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.98	22.44	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.01	22.47	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.84	21.3	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.9	22.36	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.92	22.38	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.87	22.33	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.82	21.28	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.97	21.43	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.03	21.49	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.01	21.47	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.84	20.3	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.01	21.47	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.99	21.45	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.93	21.39	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.86	20.32	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.91	21.37	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.9	21.36	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.9	21.36	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.79	20.25	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	18.89	18.35	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	18.92	18.38	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	18.94	18.4	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	18.82	18.28	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	18.58	18.04	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18.86	18.32	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	18.85	18.31	38.45	PASS



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Band5	3MHz	256QAM	20525	15RB#0	18.83	18.29	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	18.98	18.44	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	18.77	18.23	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	18.79	18.25	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	18.79	18.25	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.87	23.33	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.84	23.3	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.91	23.37	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.89	22.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.89	23.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.83	23.29	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.83	23.29	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.58	22.04	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.74	23.2	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.78	23.24	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.74	23.2	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.86	22.32	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23	22.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.01	22.47	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.08	22.54	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.8	21.26	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.02	22.48	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23	22.46	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.97	22.43	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.75	21.21	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.95	22.41	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.92	22.38	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.91	22.37	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.72	21.18	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22	21.46	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.13	21.59	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.91	21.37	38.45	PASS



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Band5	5MHz	64QAM	20425	25RB#0	20.79	20.25	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.04	21.5	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.06	21.52	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22	21.46	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.76	20.22	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.94	21.4	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.02	21.48	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.98	21.44	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.69	20.15	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	18.94	18.4	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.95	18.41	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	18.99	18.45	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	18.78	18.24	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	18.96	18.42	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	18.92	18.38	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	18.92	18.38	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	18.78	18.24	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	18.57	18.03	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	18.9	18.36	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	18.84	18.3	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	18.74	18.2	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.81	23.27	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.01	23.47	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.84	23.3	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.91	22.37	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.92	23.38	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.91	23.37	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.76	23.22	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.84	22.3	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.79	23.25	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.74	23.2	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.41	22.87	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.82	22.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.07	22.53	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.03	22.49	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.01	22.47	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.88	21.34	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.01	22.47	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.02	22.48	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.97	22.43	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.82	21.28	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.98	22.44	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.9	22.36	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.96	22.42	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.8	21.26	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.01	21.47	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.09	21.55	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22	21.46	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.88	20.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.02	21.48	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.02	21.48	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.93	21.39	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.78	20.24	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.98	21.44	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.96	21.42	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.86	21.32	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.76	20.22	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	18.95	18.41	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	18.97	18.43	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.97	18.43	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	18.89	18.35	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.32	17.78	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	18.95	18.41	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	18.87	18.33	38.45	PASS



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Report No.: SEWM2210000205RG01

Rev.: 01

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Band5	10MHz	256QAM	20525	50RB#0	18.8	18.26	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	18.41	17.87	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	18.8	18.26	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.83	18.29	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.79	18.25	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

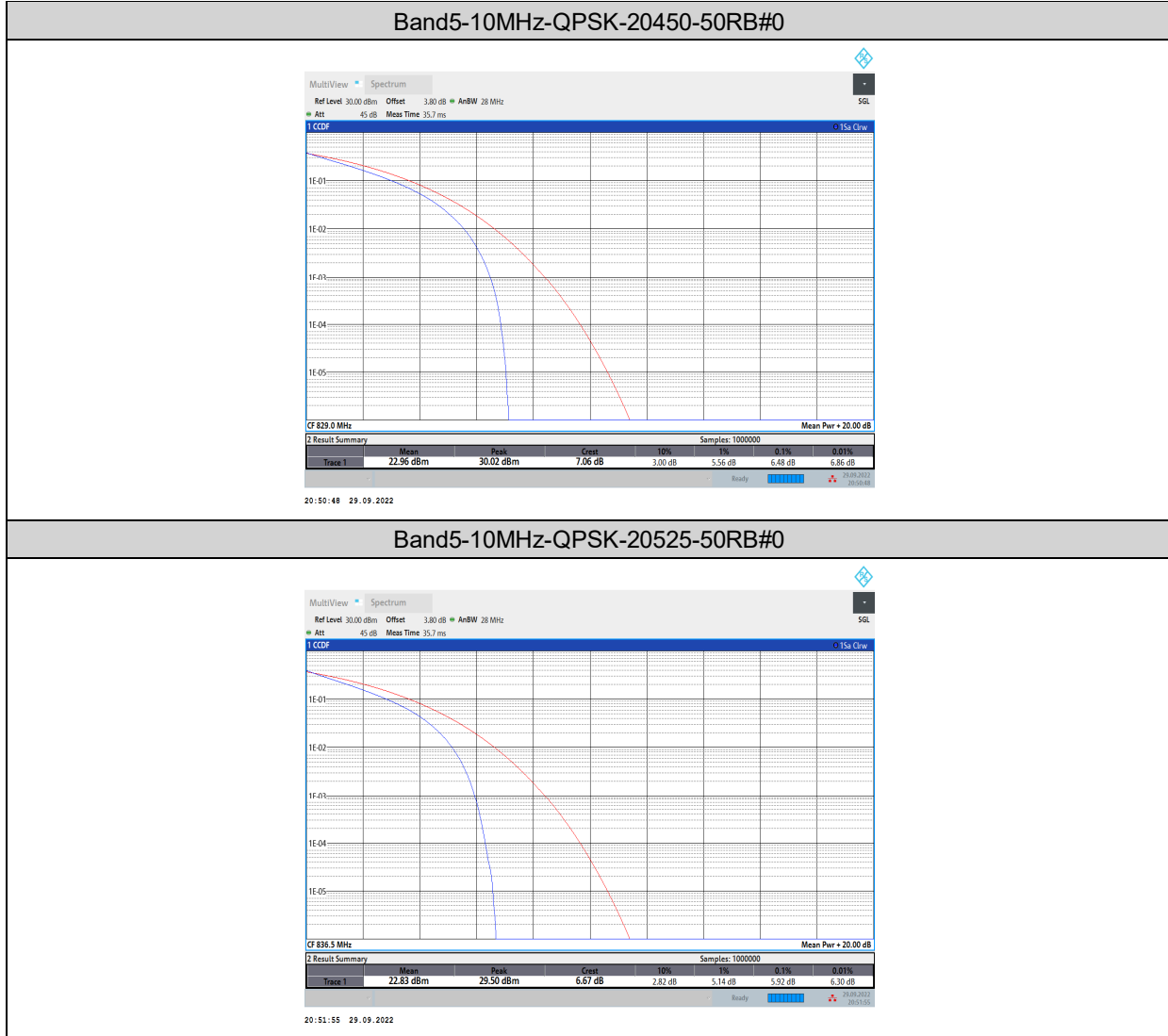
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	6.48	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.92	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	7.32	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.84	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	7.08	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	7.86	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	7.34	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	7.70	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	7.62	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	7.28	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	7.66	13	PASS



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Test Graphs

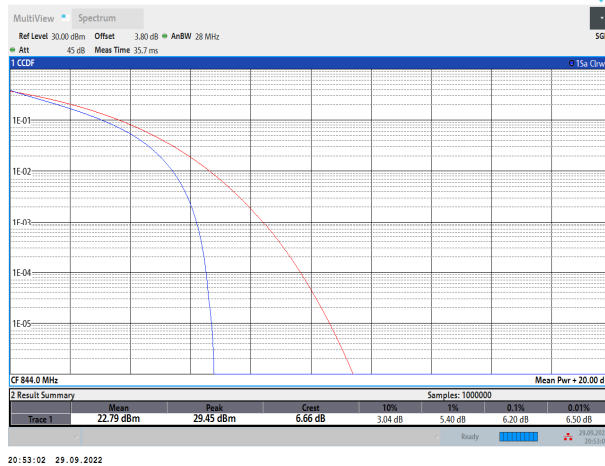


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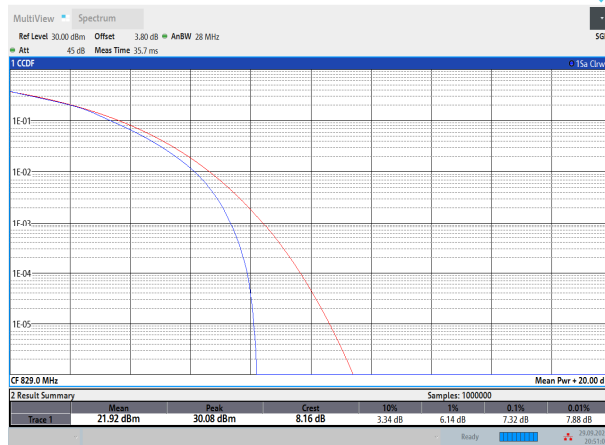
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Band5-10MHz-QPSK-20600-50RB#0



20:53:02 29.09.2022

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



20:51:05 29.09.2022

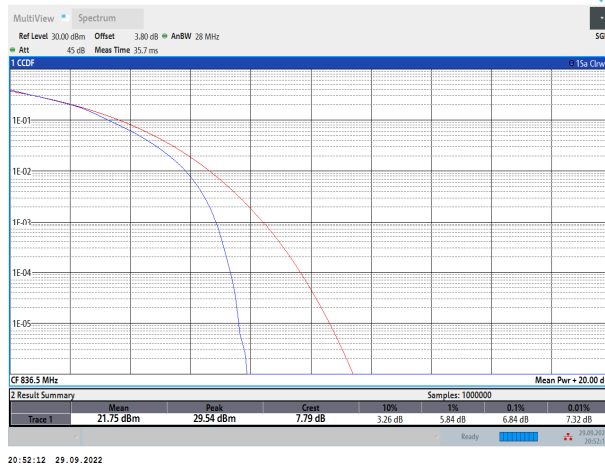


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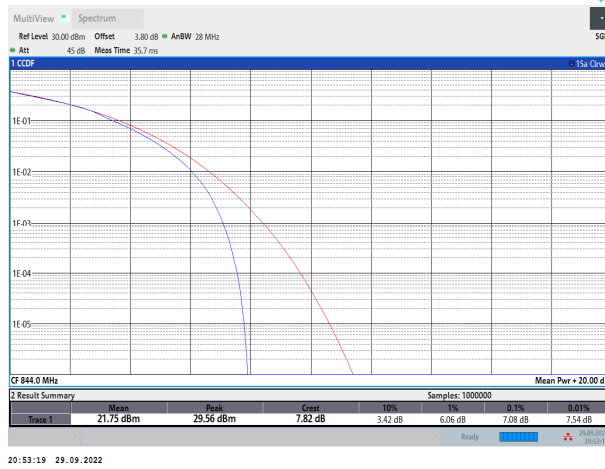
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Band5-10MHz-16QAM-20525-50RB#0



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

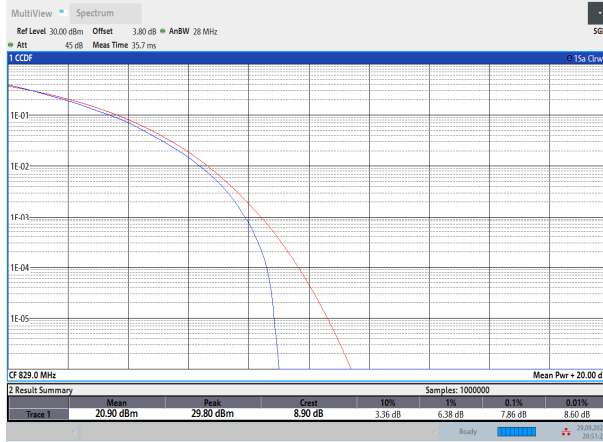


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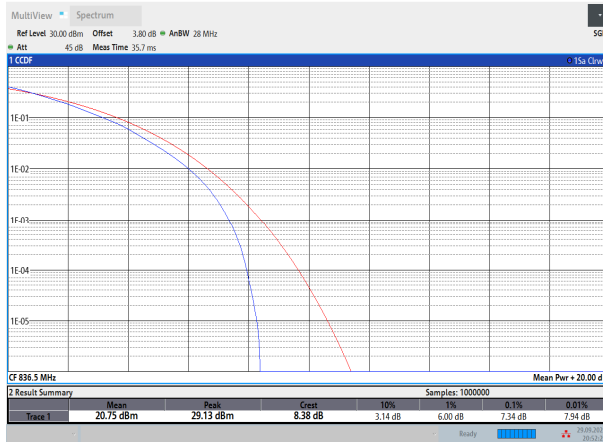
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Band5-10MHz-64QAM-20450-50RB#0



20:51:22 29.09.2022

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



20:52:29 29.09.2022

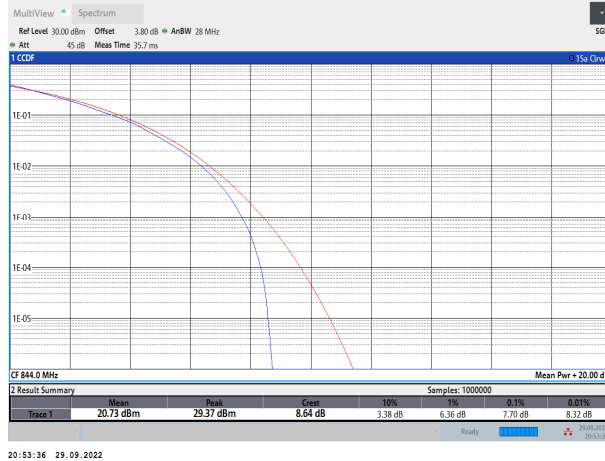


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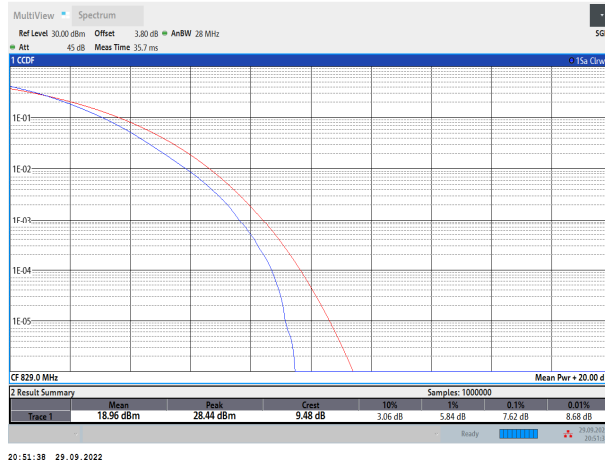
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Band5-10MHz-64QAM-20600-50RB#0



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

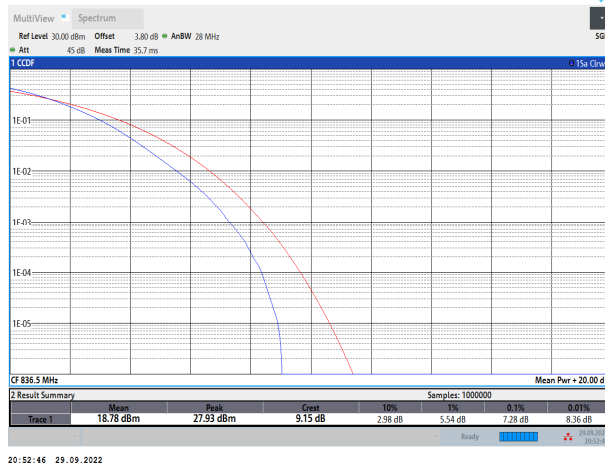


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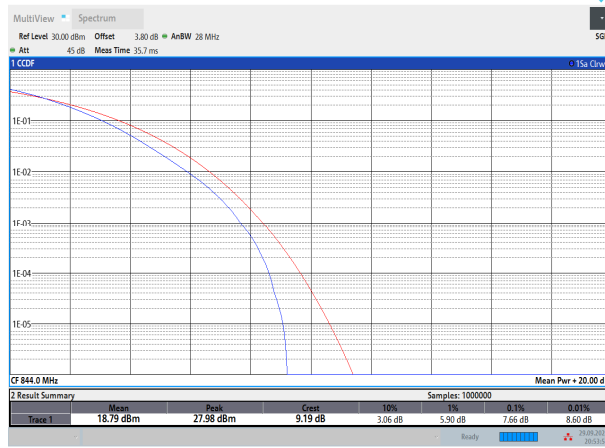
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Band5-10MHz-256QAM-20525-50RB#0



20:52:46 29.09.2022

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



20:53:53 29.09.2022



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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

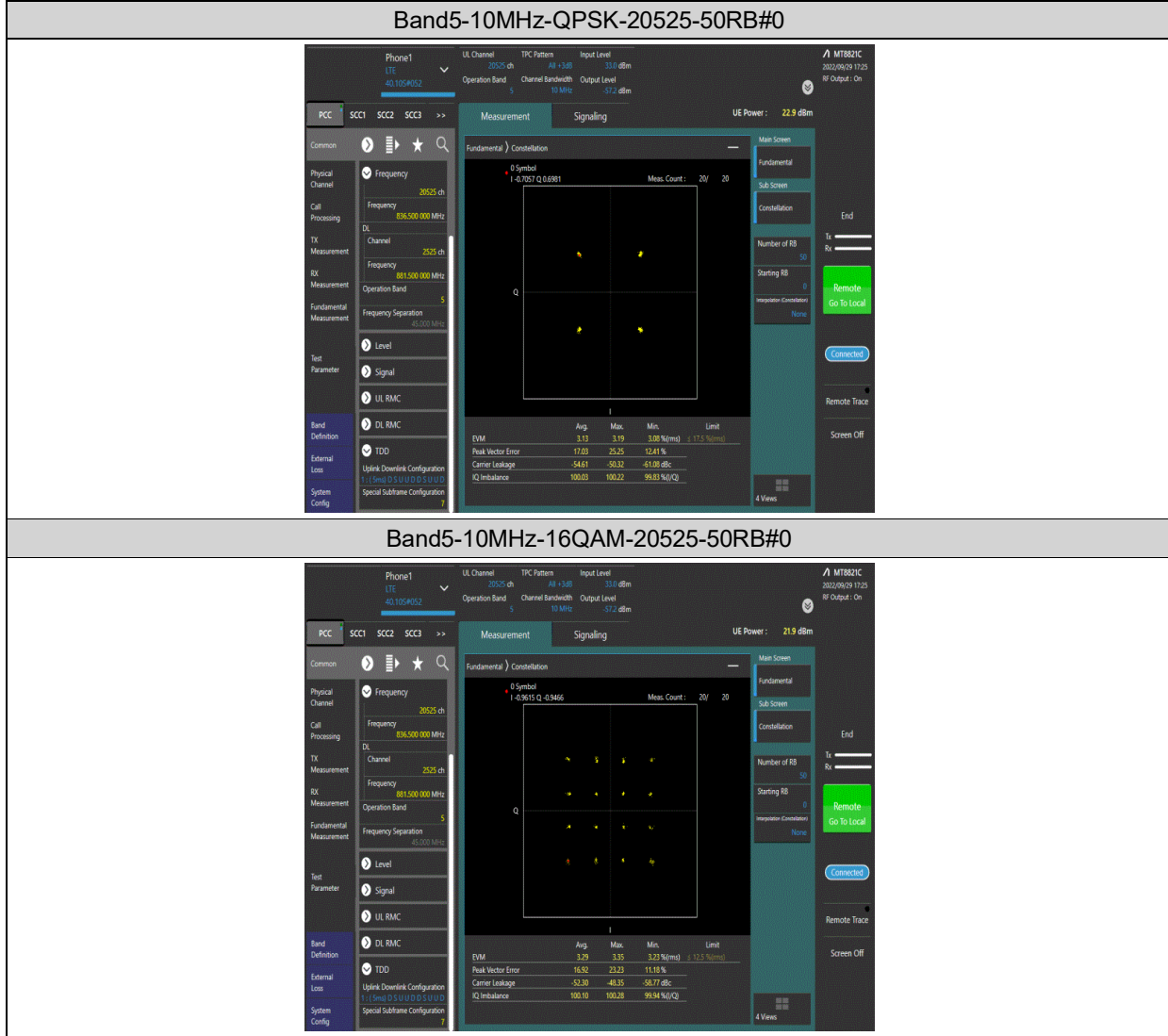


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Test Graphs

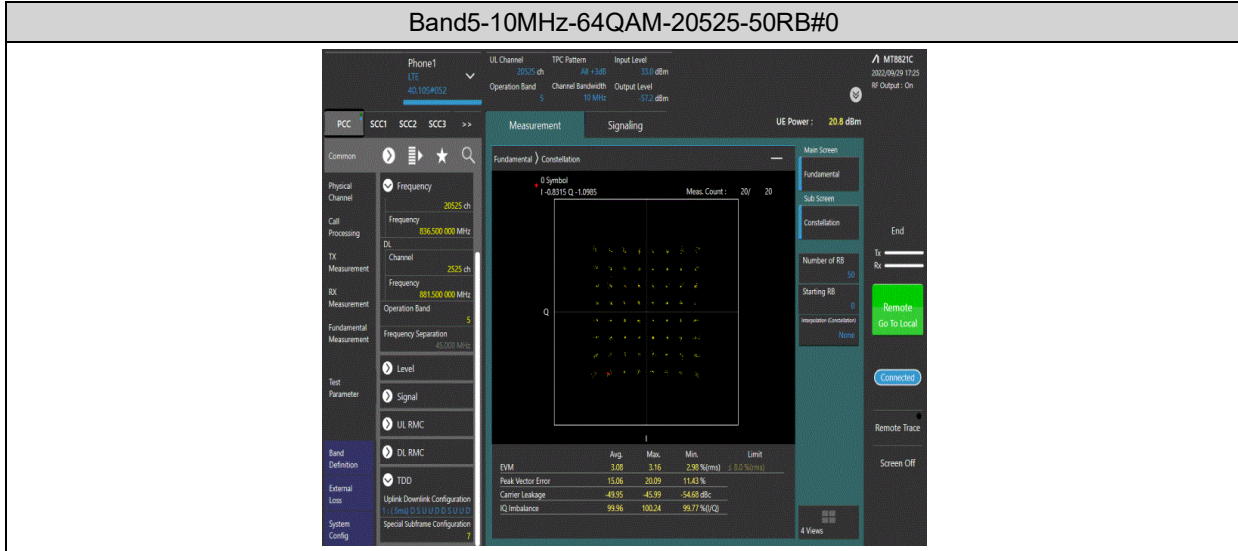


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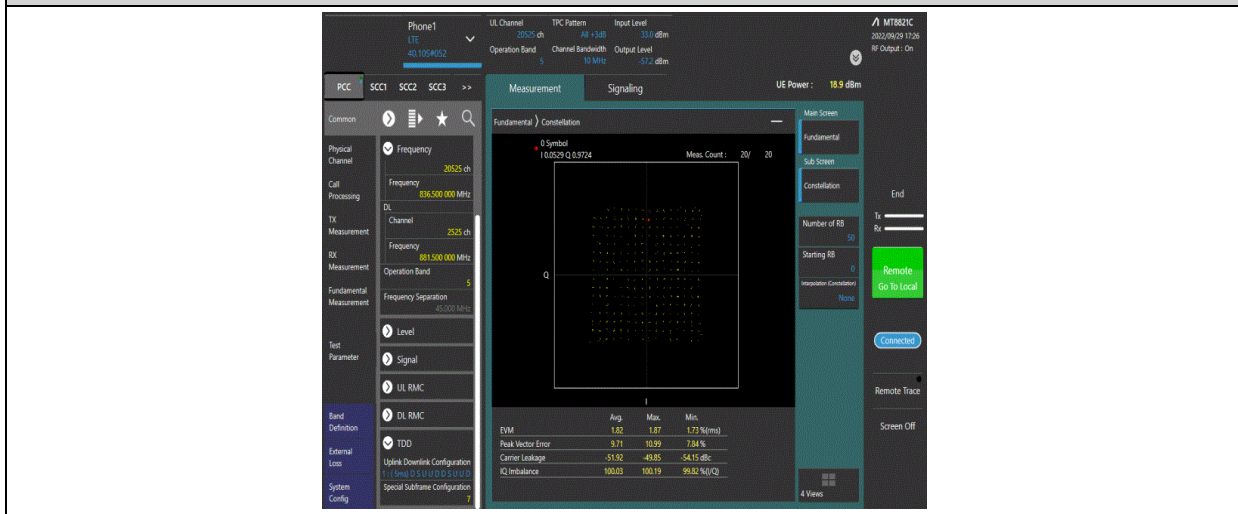
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Band5-10MHz-64QAM-20525-50RB#0



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.106	1.34	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.102	1.33	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.103	1.42	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.32	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1	1.34	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.103	1.34	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.103	1.33	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.089	1.28	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.087	1.28	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.093	1.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.712	3.37	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	2.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.707	2.99	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.704	3.29	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.692	2.94	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.702	2.95	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.702	2.93	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.69	2.92	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.698	2.93	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.69	2.96	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.688	2.96	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.693	2.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.487	7.05	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.467	4.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.85	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.489	6.05	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.86	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.479	6.04	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.483	4.92	PASS



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Report No.: SEWM2210000205RG01

Rev.: 01

Page: 20 of 62

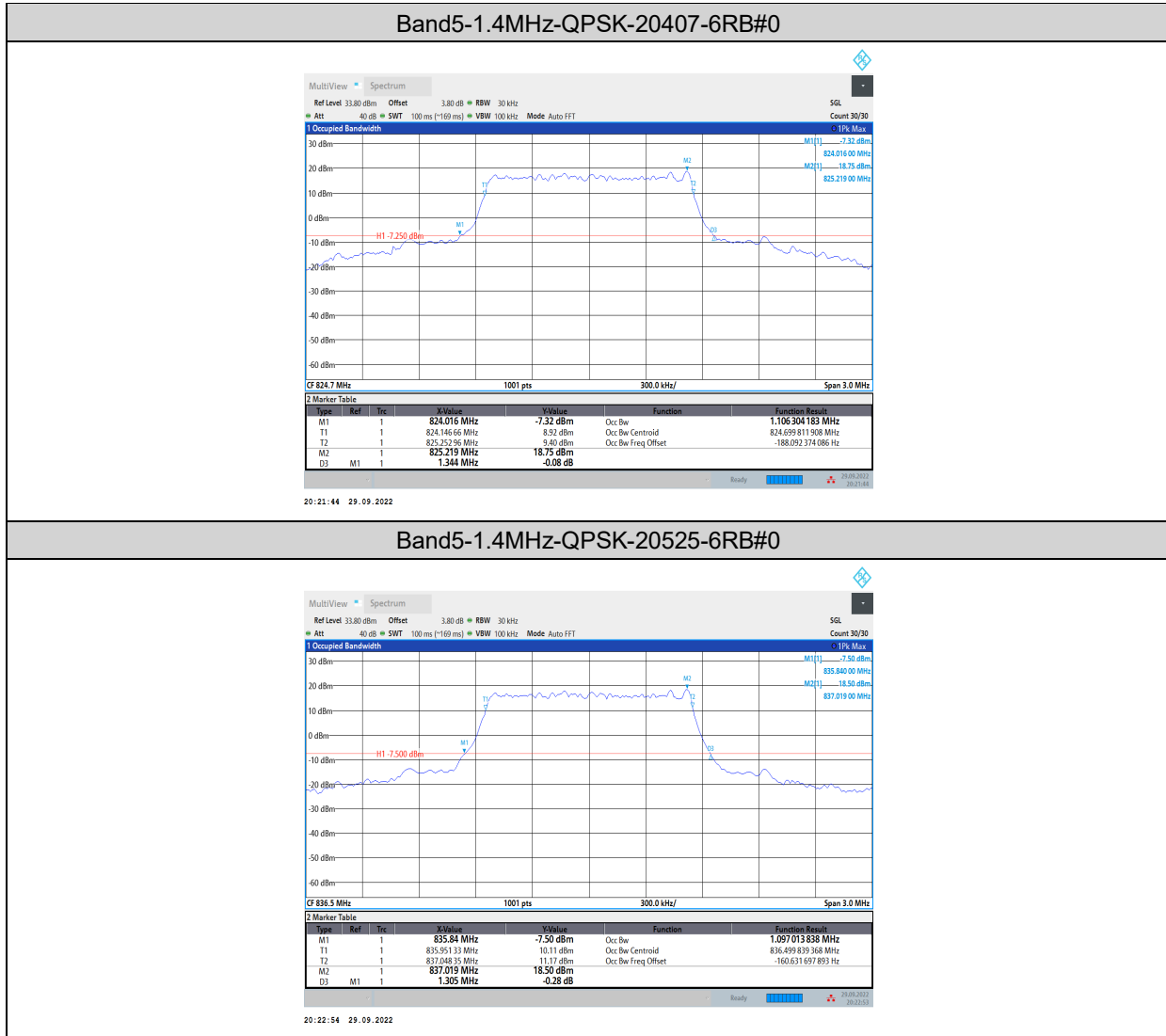
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Band5	5MHz	256QAM	20525	25RB#0	4.468	4.85	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.47	4.83	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.97	10.18	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.936	9.60	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.97	9.88	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.949	10.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.929	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.952	9.84	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.975	9.70	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.932	9.58	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.957	9.70	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.941	9.62	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.923	9.50	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.943	9.64	PASS



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Test Graphs

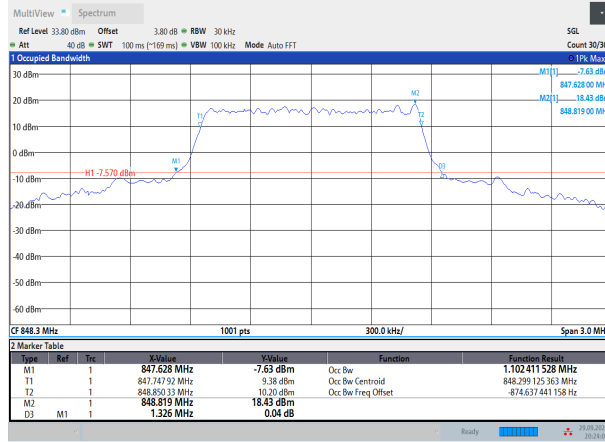


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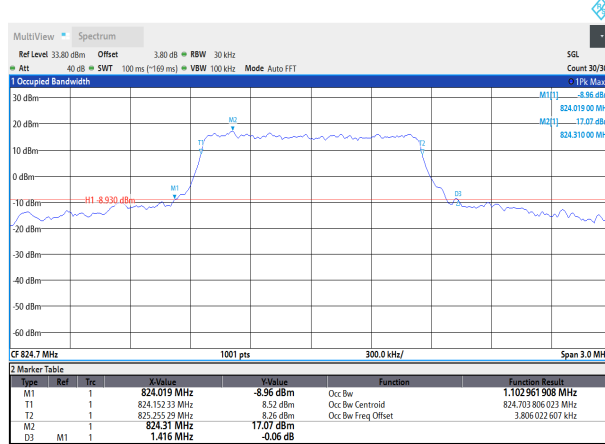
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Band5-1.4MHz-QPSK-20643-6RB#0



20:24:04 29. 09. 2022

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



20:22:01 29. 09. 2022

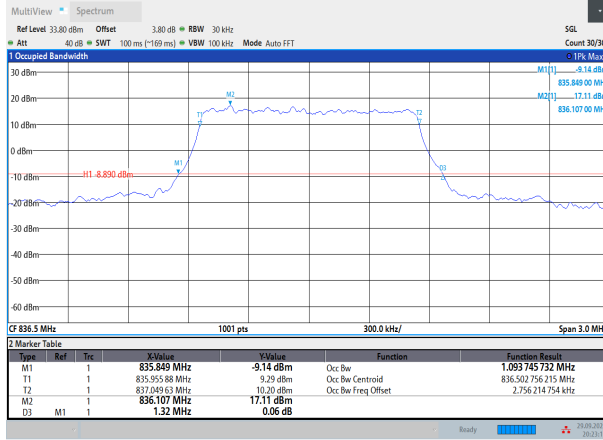


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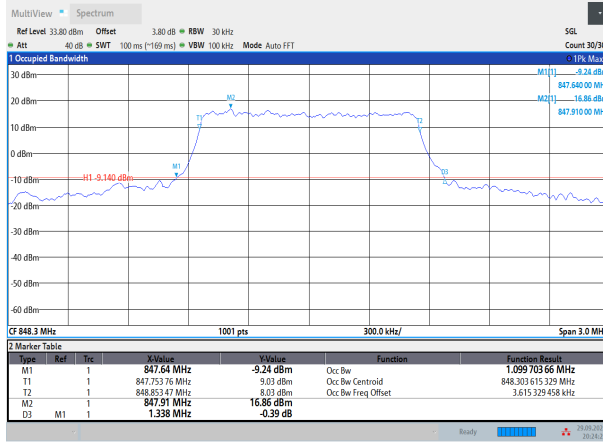
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Band5-1.4MHz-16QAM-20525-6RB#0



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

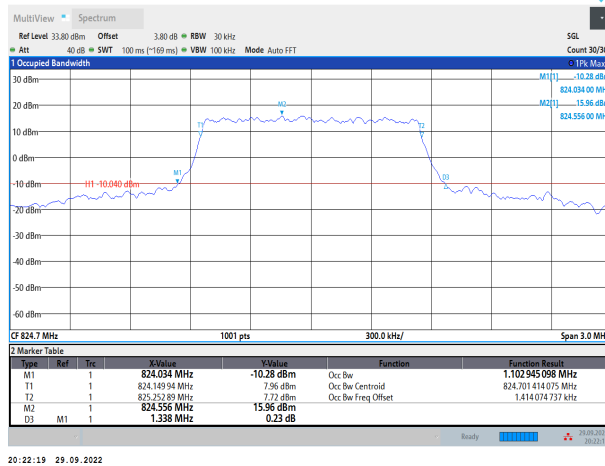


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Band5-1.4MHz-64QAM-20407-6RB#0



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

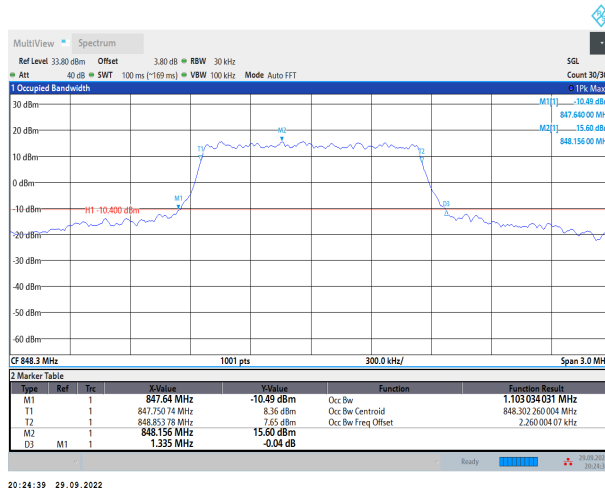


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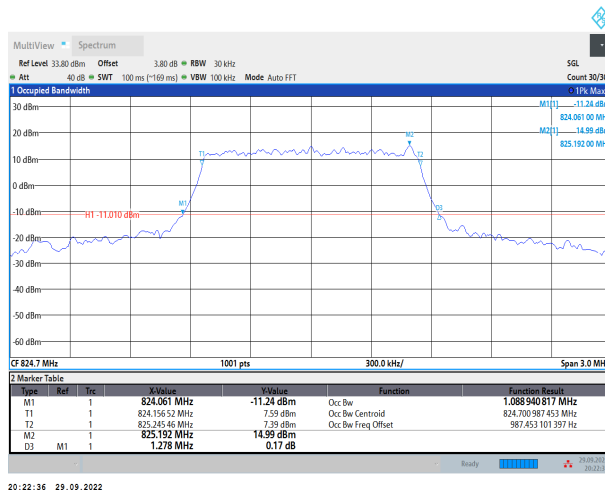
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Band5-1.4MHz-64QAM-20643-6RB#0



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

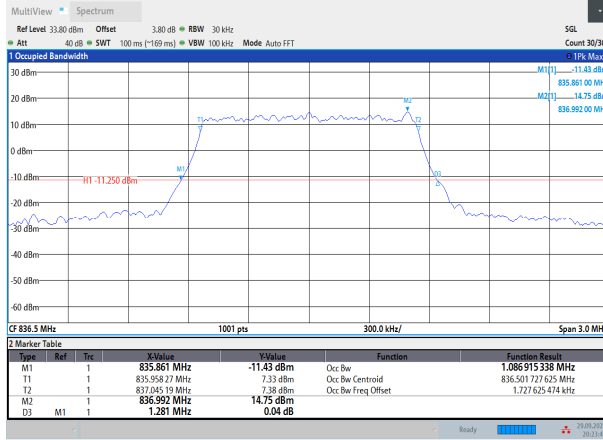


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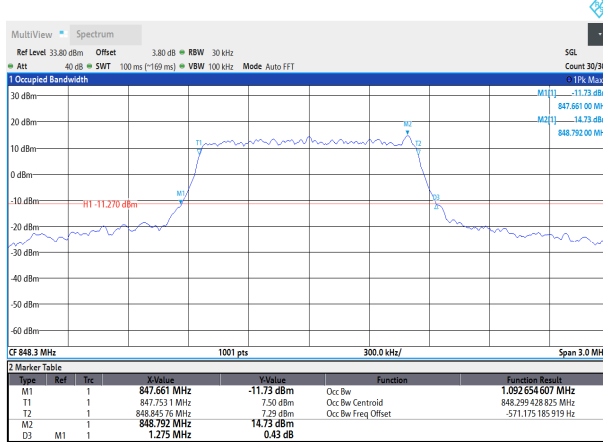
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Band5-1.4MHz-256QAM-20525-6RB#0



20:23:46 29.09.2022

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



20:24:56 29.09.2022

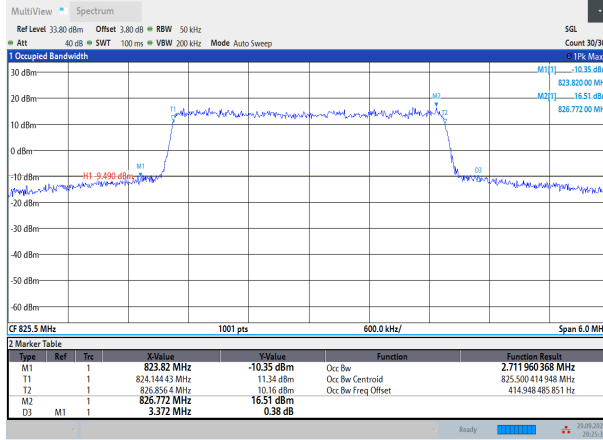


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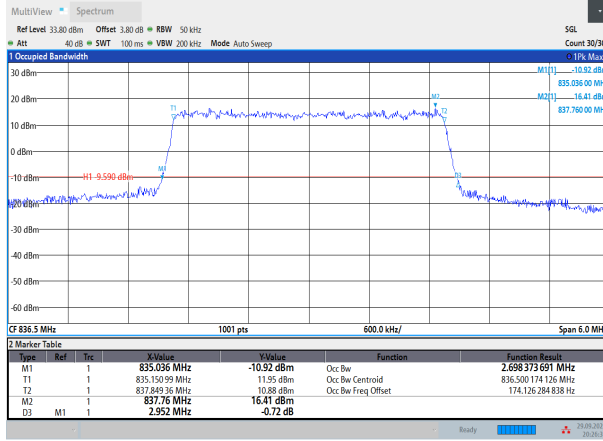
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Band5-3MHz-QPSK-20415-15RB#0



20:25:34 29.09.2022

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



20:26:40 29.09.2022

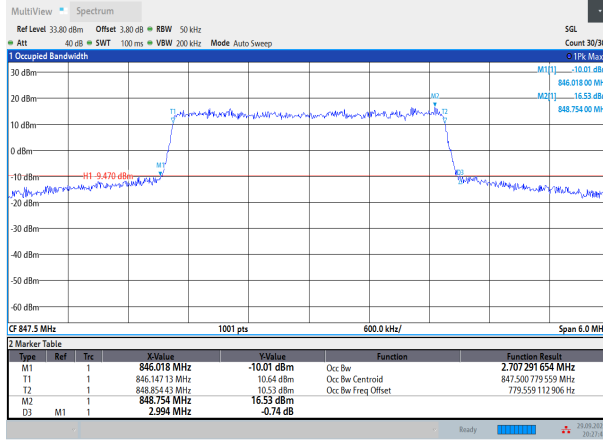


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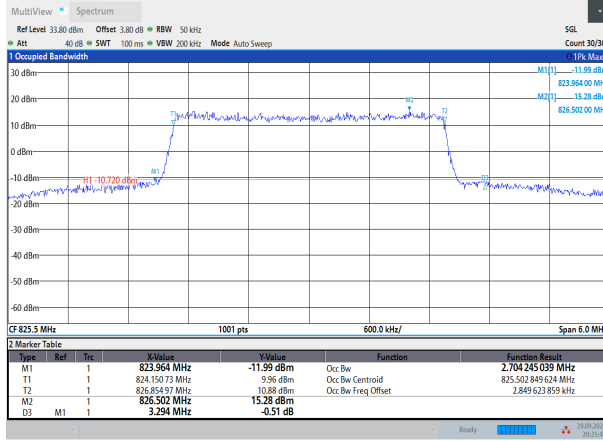
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Band5-3MHz-QPSK-20635-15RB#0



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

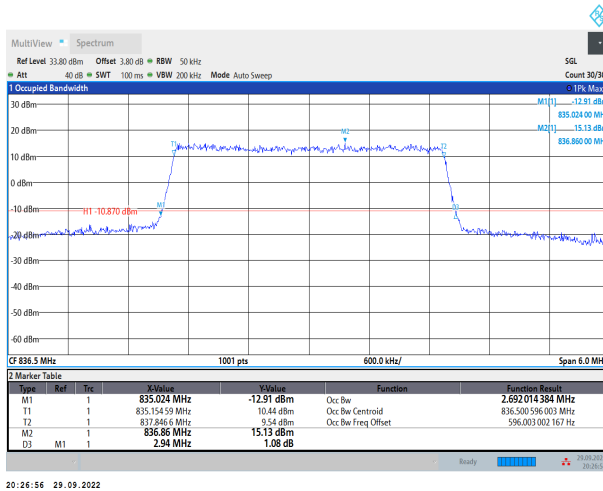


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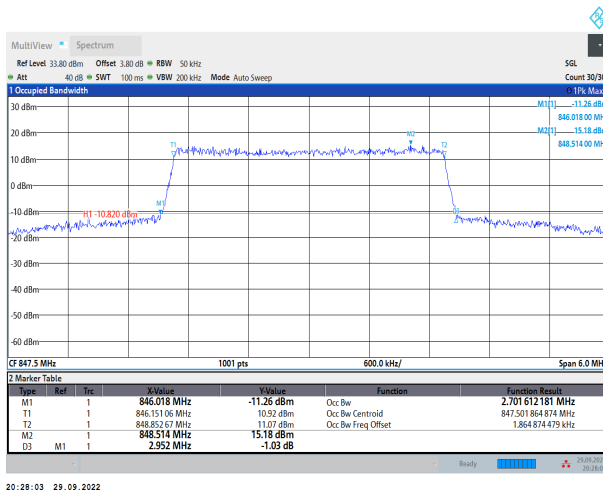
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Band5-3MHz-16QAM-20525-15RB#0



20:24:56 29. 09. 2022

Band5-3MHz-16QAM-20635-15RB#0



20:28:03 29. 09. 2022

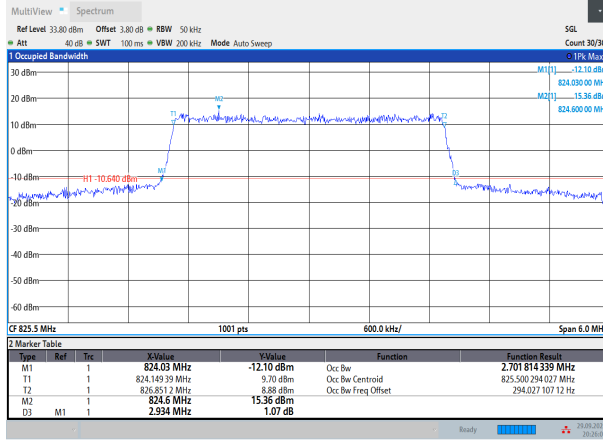


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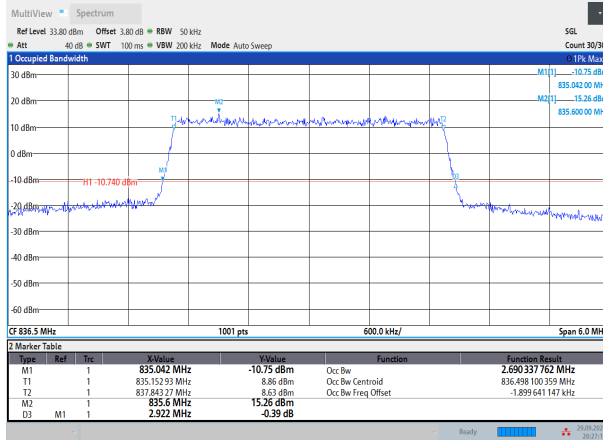
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Band5-3MHz-64QAM-20415-15RB#0



20:26:07 29. 09. 2022

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



20:27:13 29. 09. 2022

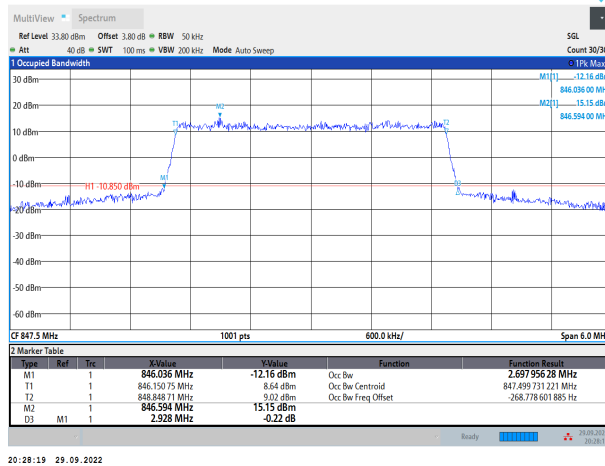


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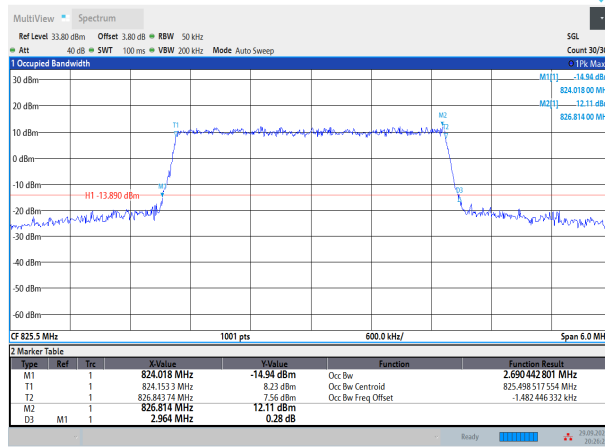
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Band5-3MHz-64QAM-20635-15RB#0



20:28:19 29.09.2022

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



20:26:23 29.09.2022

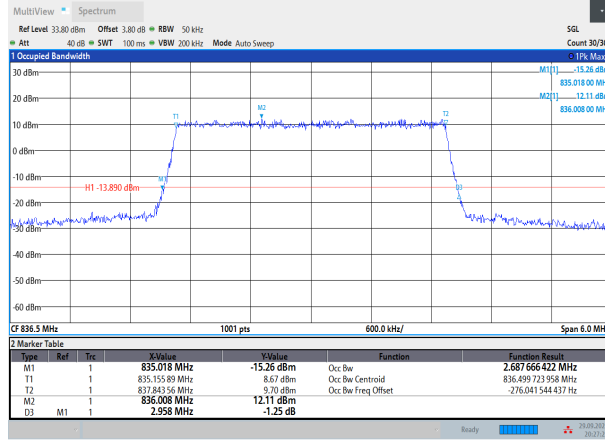


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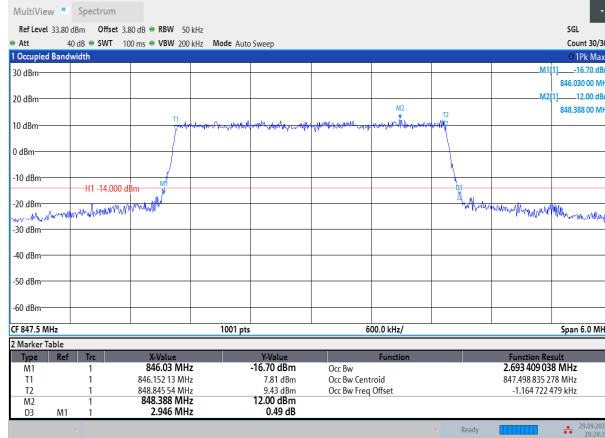
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Band5-3MHz-256QAM-20525-15RB#0



20:27:29 29. 09. 2022

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



20:28:36 29. 09. 2022

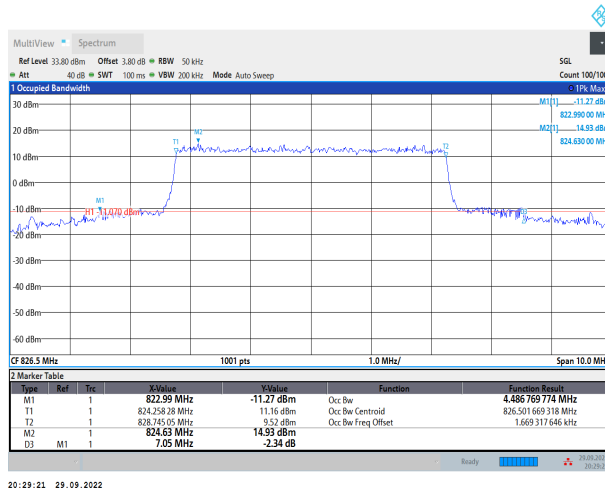


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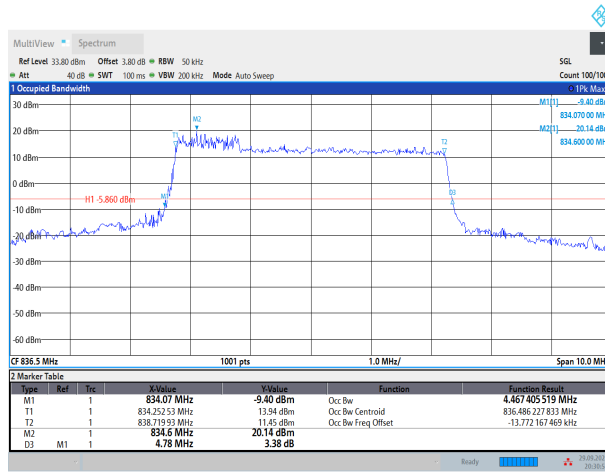
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Band5-5MHz-QPSK-20425-25RB#0



20:29:21 29. 09. 2022

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



20:30:55 29. 09. 2022



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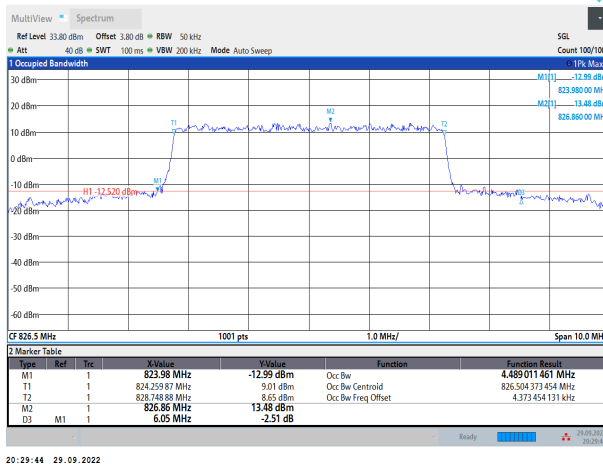
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Band5-5MHz-16QAM-20425-25RB#0

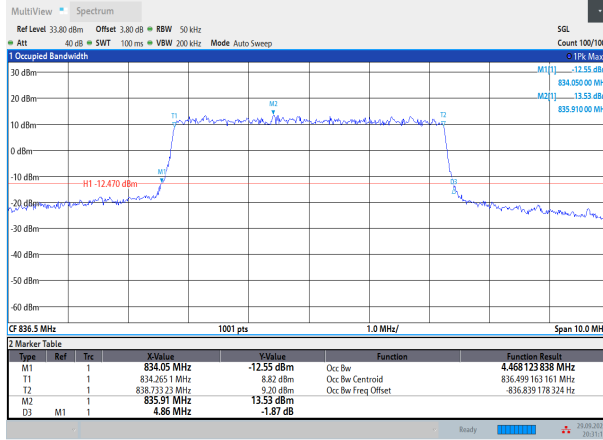


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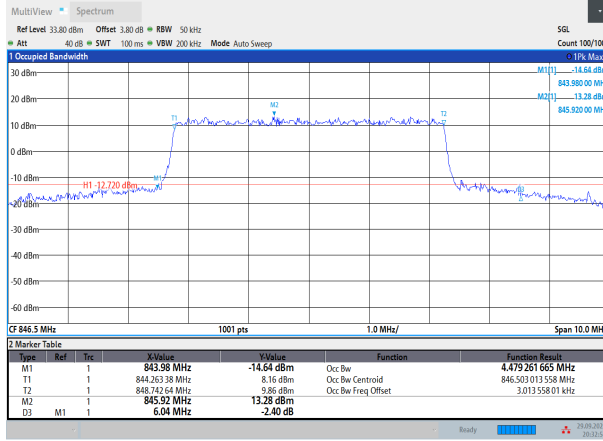
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Band5-5MHz-16QAM-20625-25RB#0



20:32:53 29.09.2022

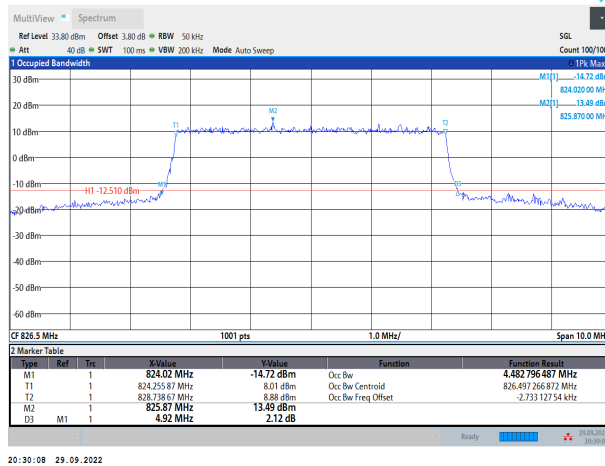


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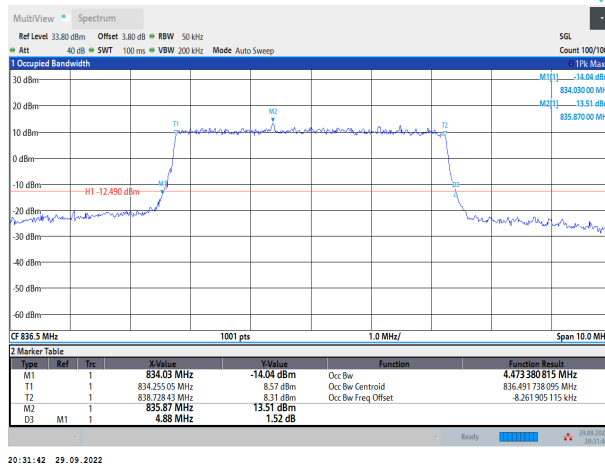
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Band5-5MHz-64QAM-20425-25RB#0



Band5-5MHz-64QAM-20525-25RB#0

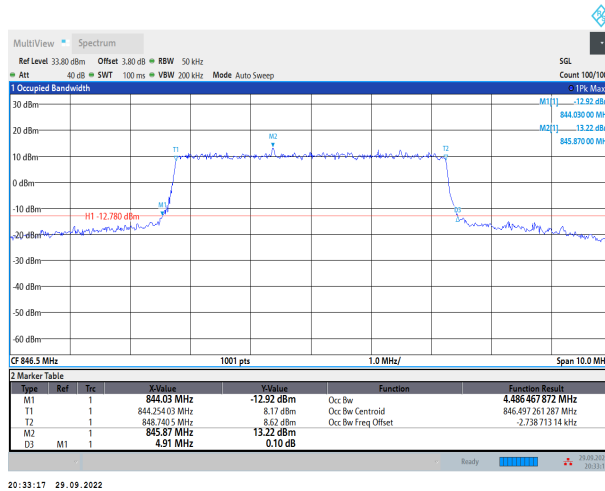


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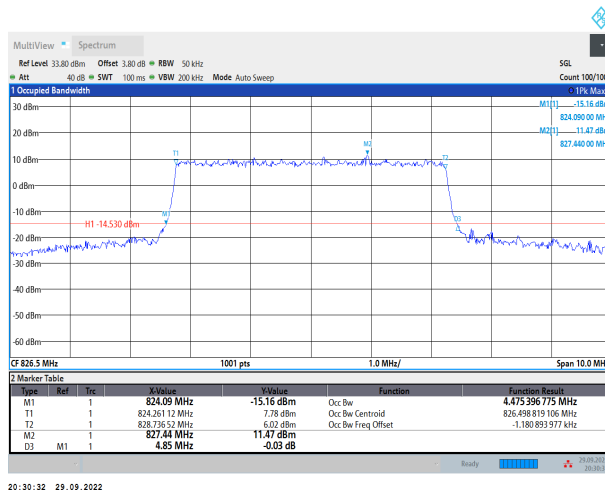
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Band5-5MHz-64QAM-20625-25RB#0



Band5-5MHz-256QAM-20425-25RB#0

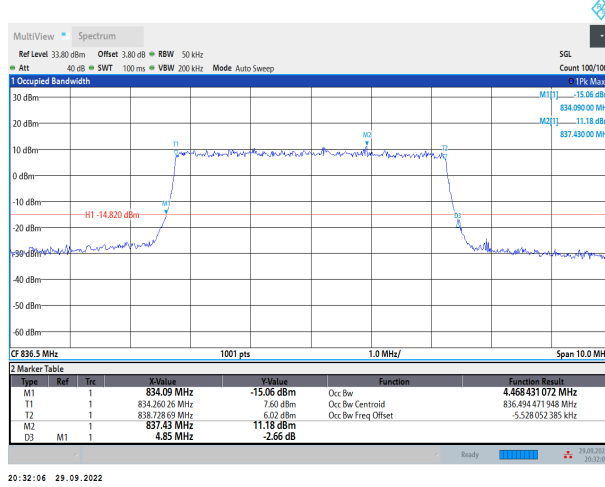


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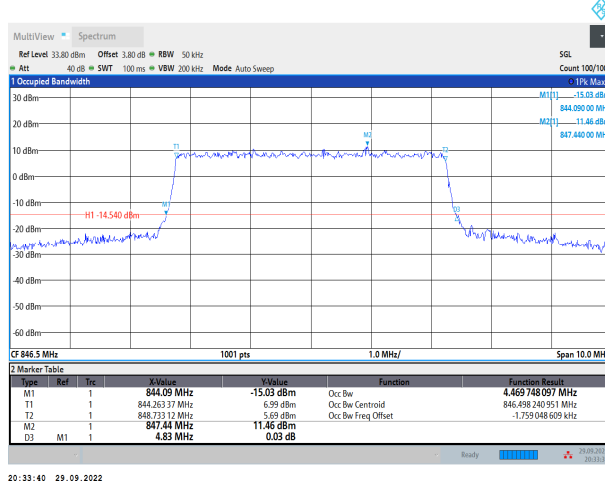
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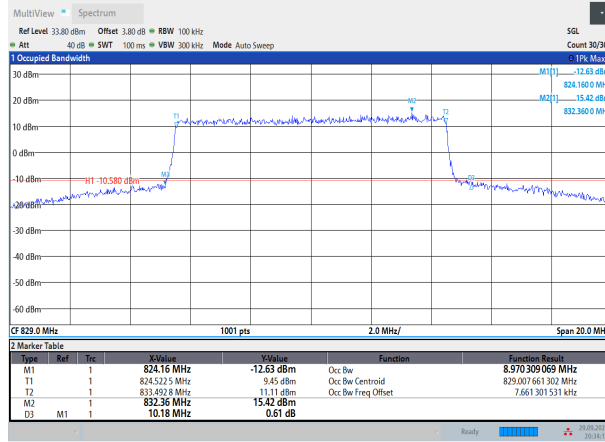


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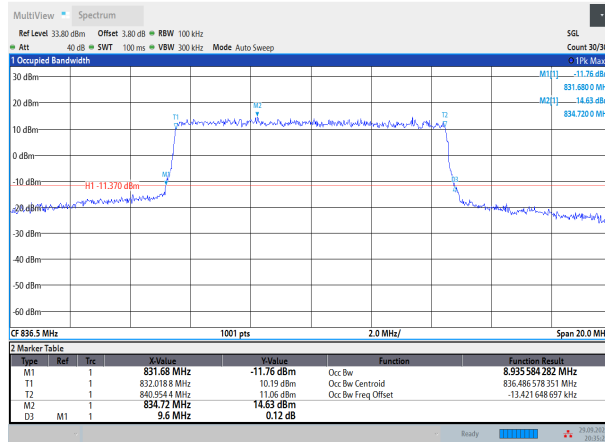
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20:34:18 29.09.2022

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



20:35:23 29.09.2022

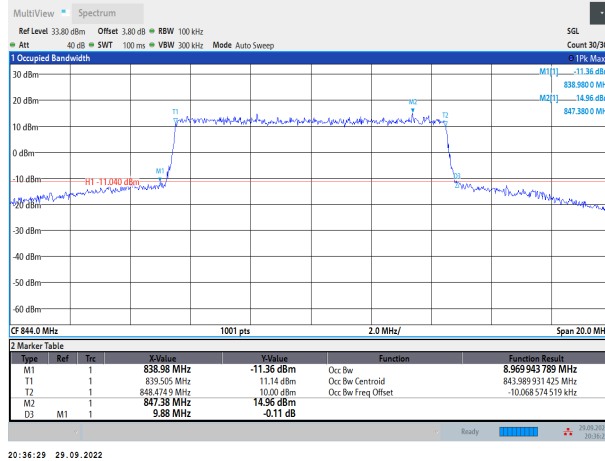


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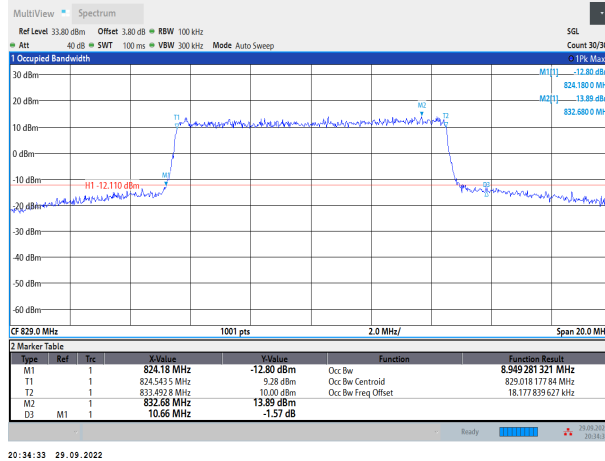
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Band5-10MHz-16QAM-20450-50RB#0

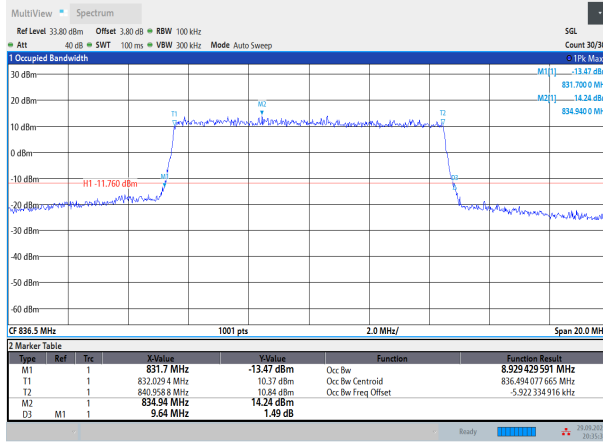


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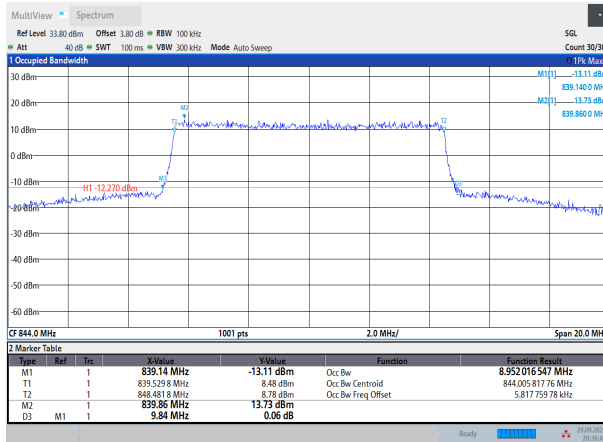
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Band5-10MHz-16QAM-20525-50RB#0



20:35:40 29.09.2022

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



20:36:45 29.09.2022

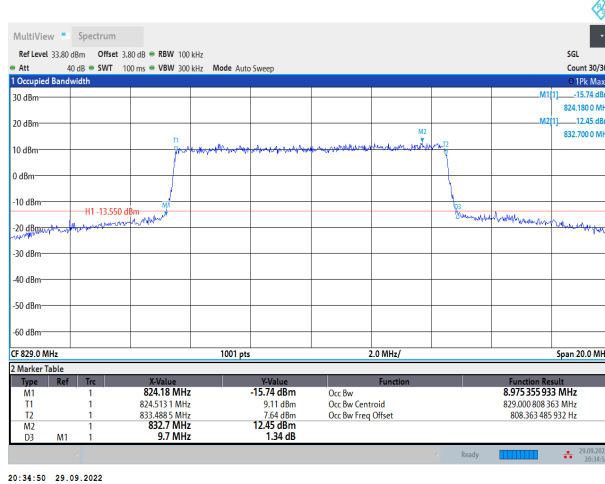


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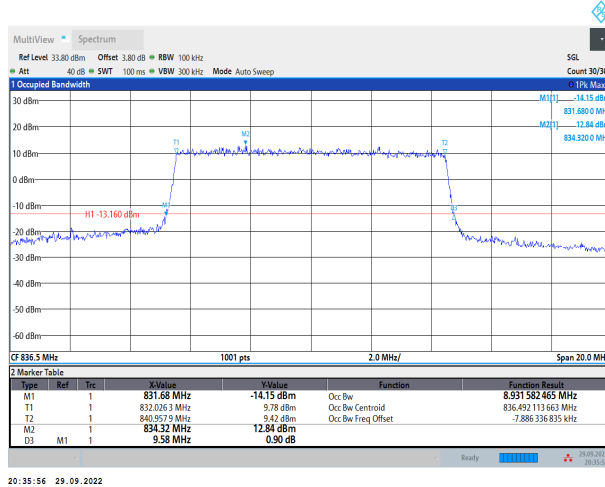
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Band5-10MHz-64QAM-20450-50RB#0



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

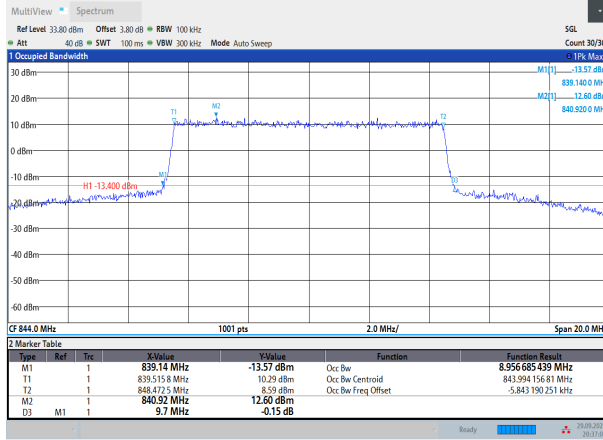


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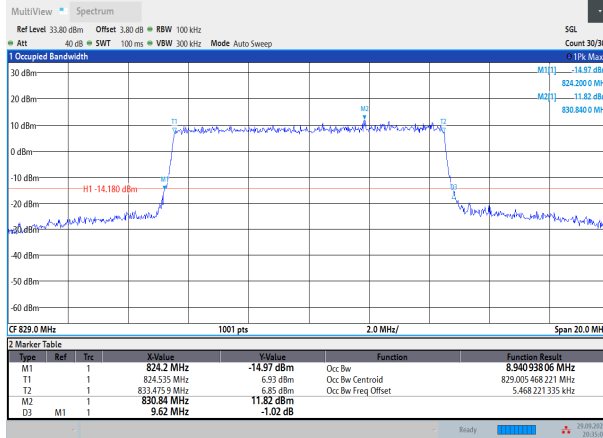
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Band5-10MHz-64QAM-20600-50RB#0



20:37:02 29.09.2022

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



20:35:06 29.09.2022

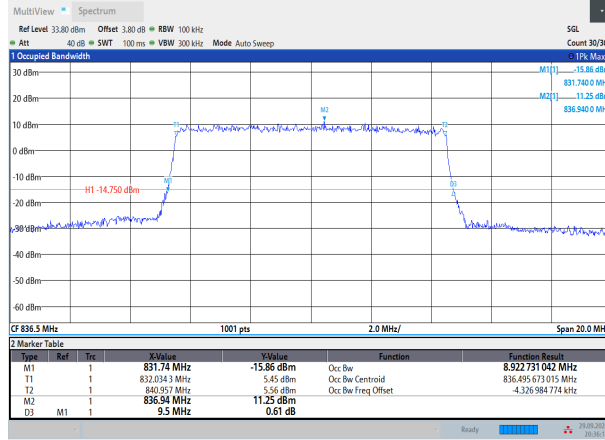


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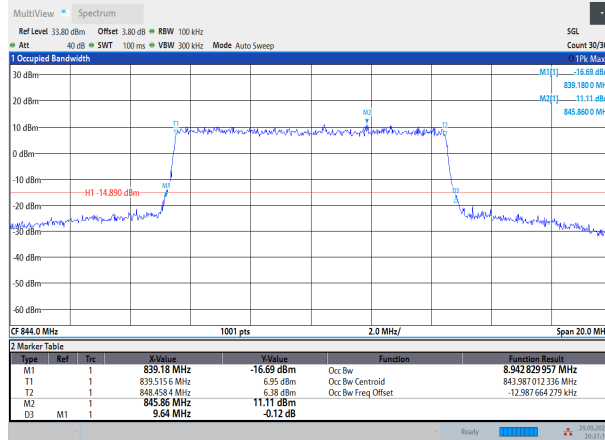
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Band5-10MHz-256QAM-20525-50RB#0



20:36:12 29.09.2022

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



20:37:18 29.09.2022



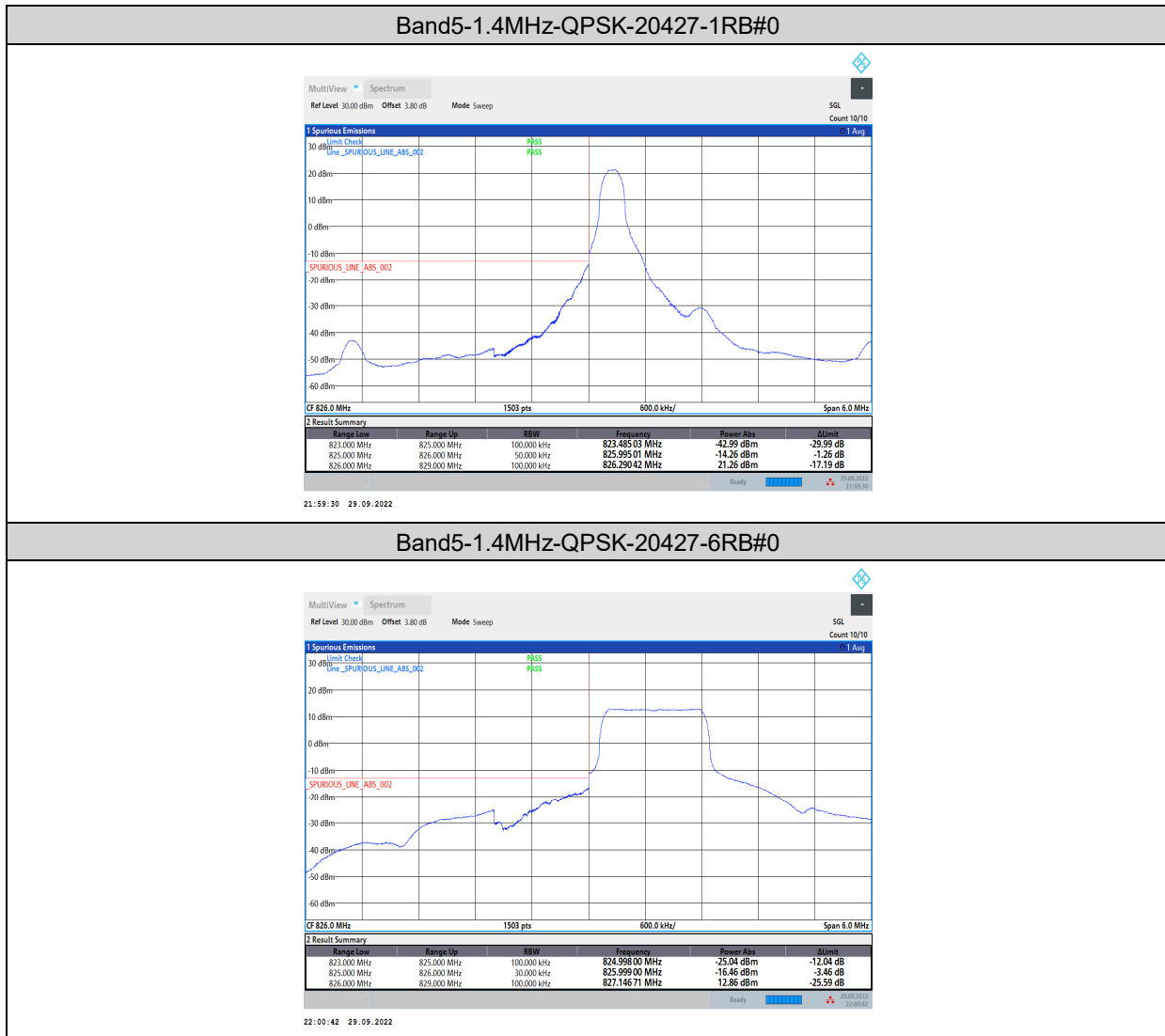
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Band Edge

Test Graphs

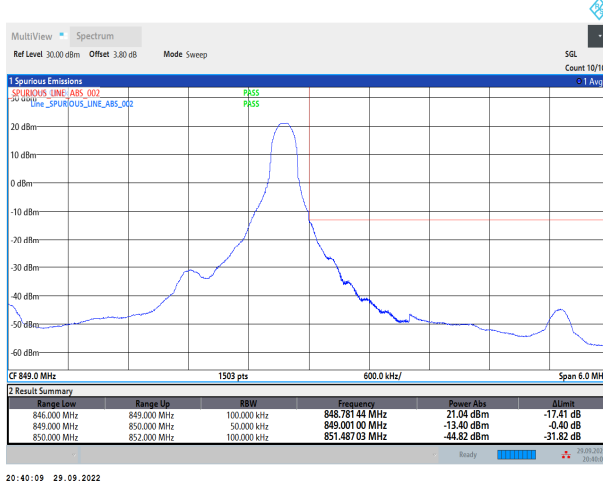


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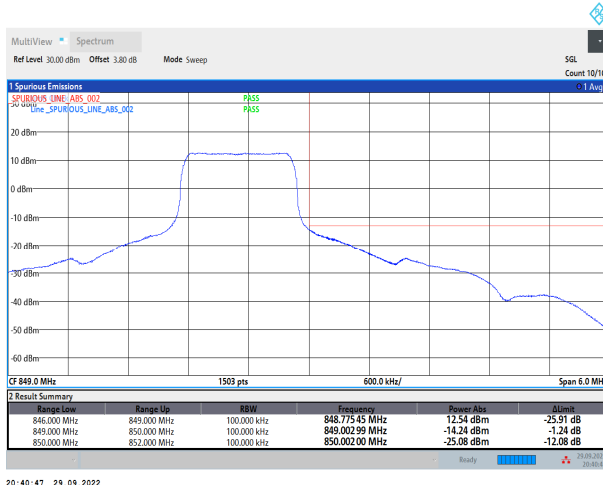
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Band5-1.4MHz-QPSK-20643-1RB#5



20:40:09 29.09.2022

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



20:40:47 29.09.2022

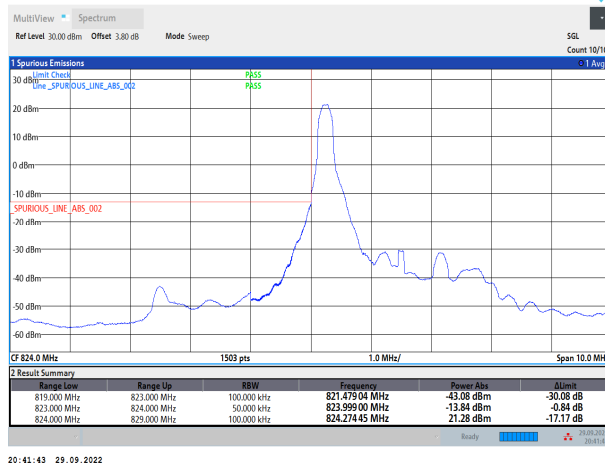


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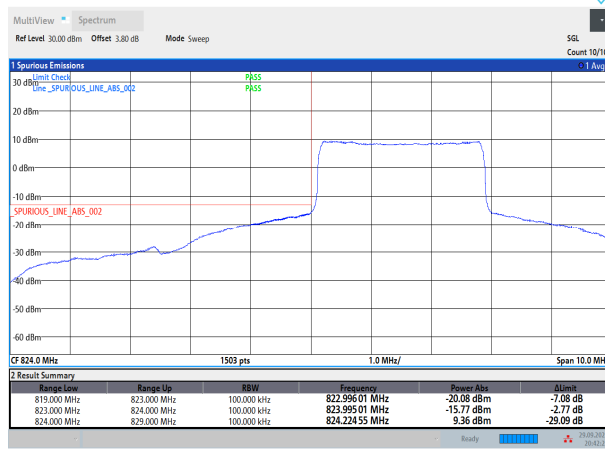
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Band5-3MHz-QPSK-20415-1RB#0



20:41:43 29.09.2022

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



20:42:23 29.09.2022

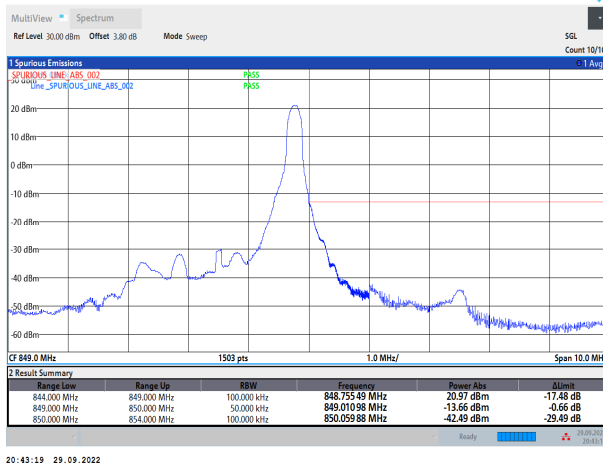


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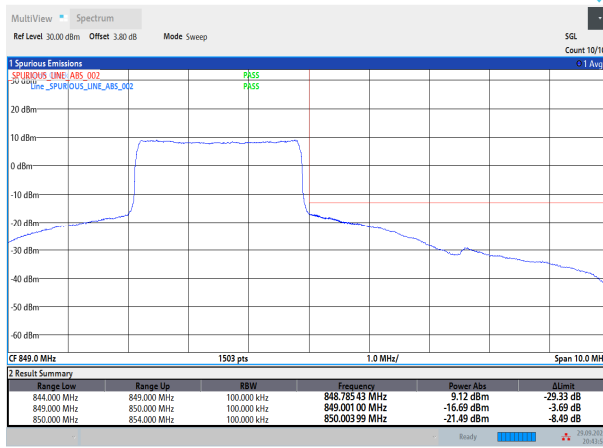
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Band5-3MHz-QPSK-20635-1RB#14



20:43:19 29.09.2022

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



20:43:57 29.09.2022

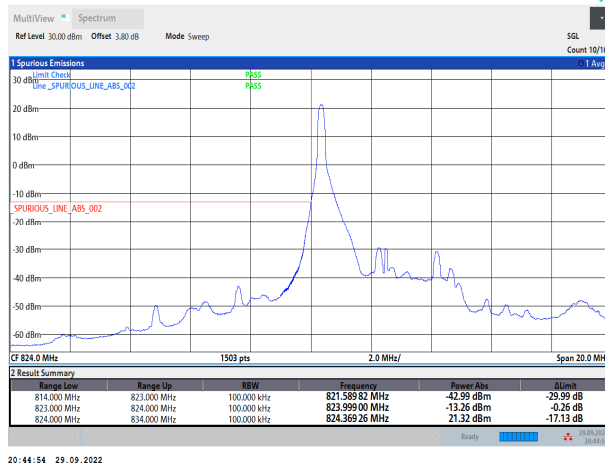


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Band5-5MHz-QPSK-20425-1RB#0



20:44:54 29.09.2022

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



20:45:32 29.09.2022

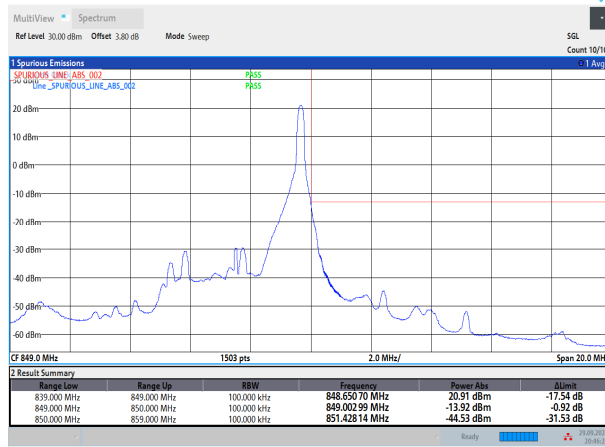


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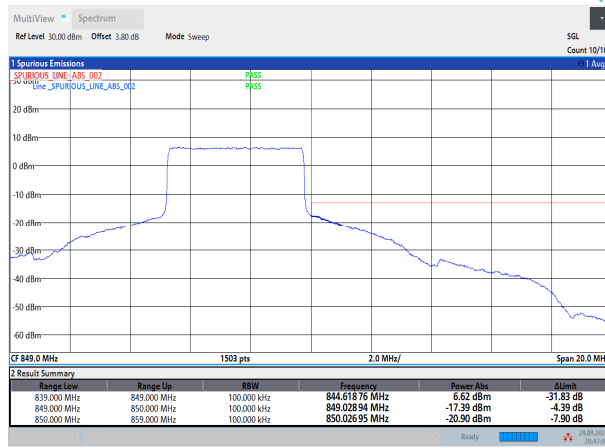
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Band5-5MHz-QPSK-20625-1RB#24



20:46:28 29.09.2022

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



20:47:06 29.09.2022

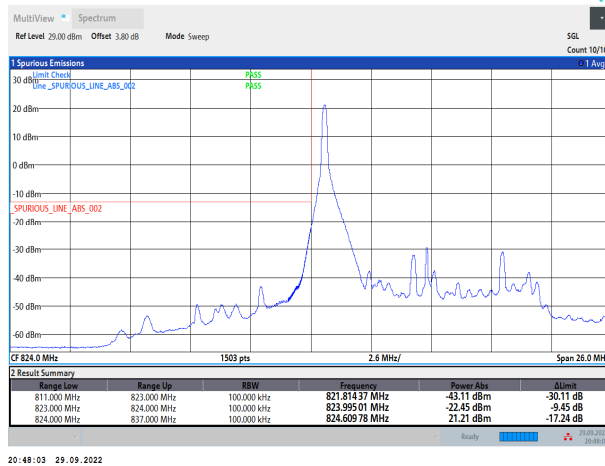


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Band5-10MHz-QPSK-20450-1RB#0



20:48:03 29.09.2022

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



20:48:41 29.09.2022

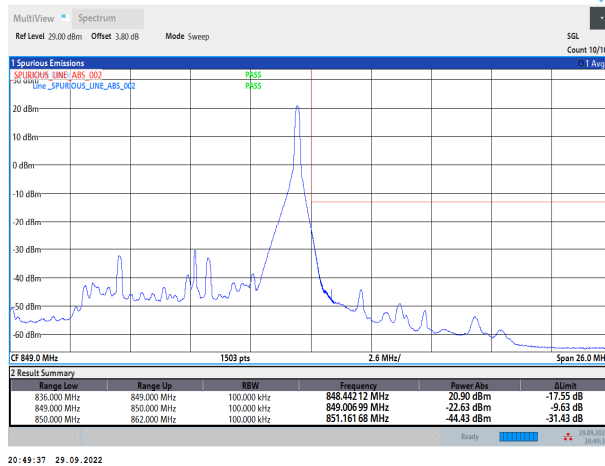


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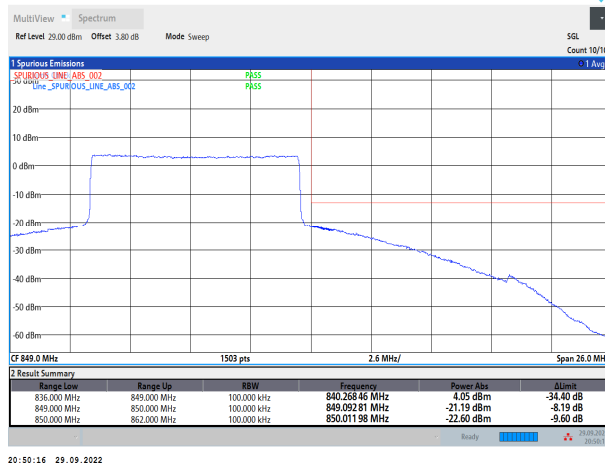
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Band5-10MHz-QPSK-20600-1RB#49



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



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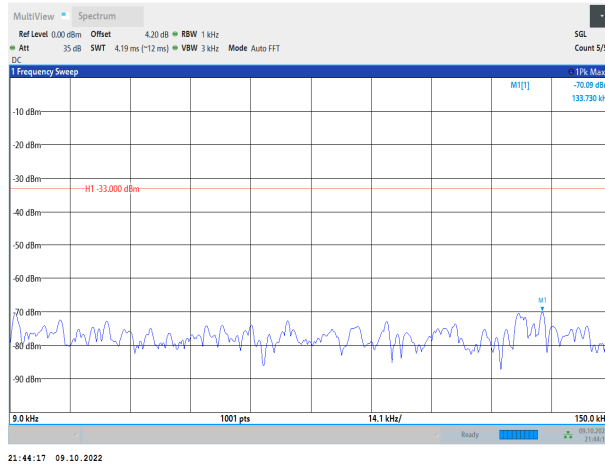
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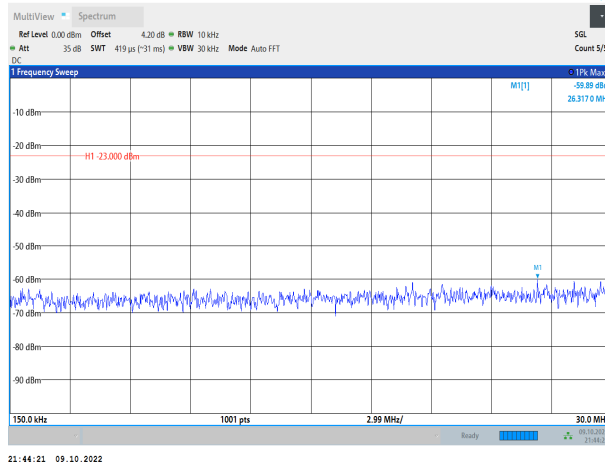
Conducted Spurious Emission

Test Graphs

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



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

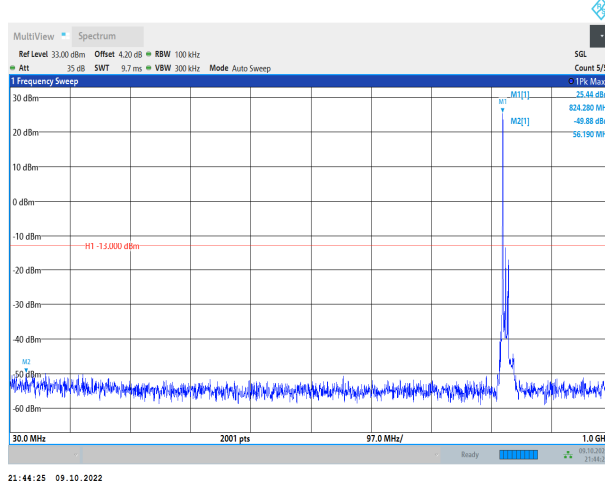


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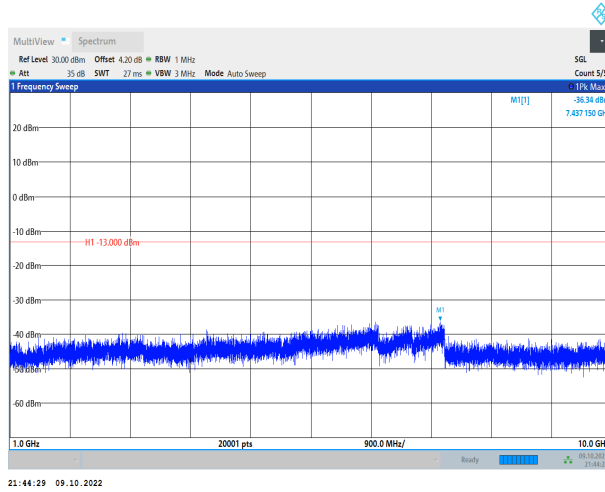
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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

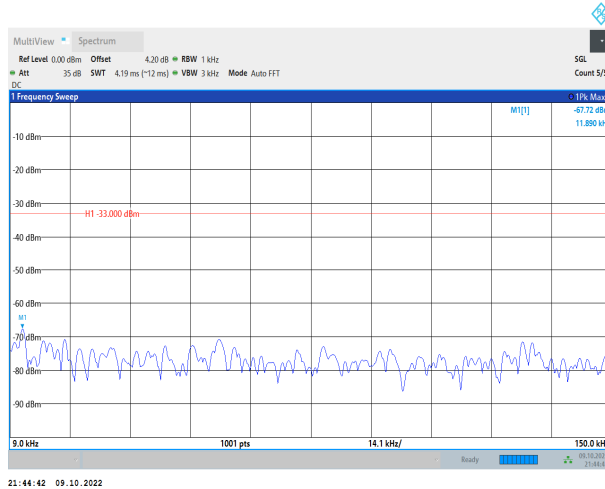


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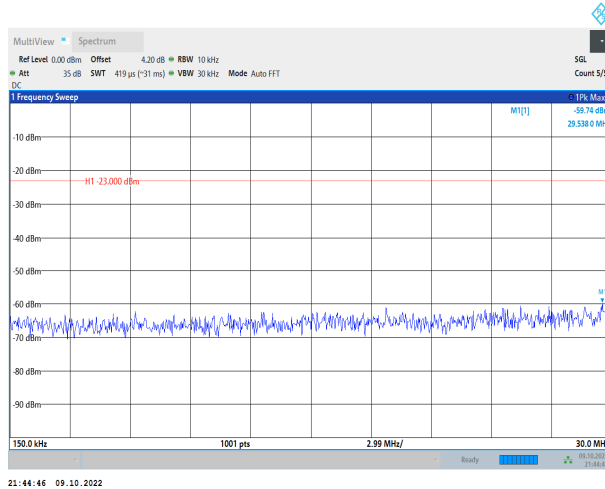
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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

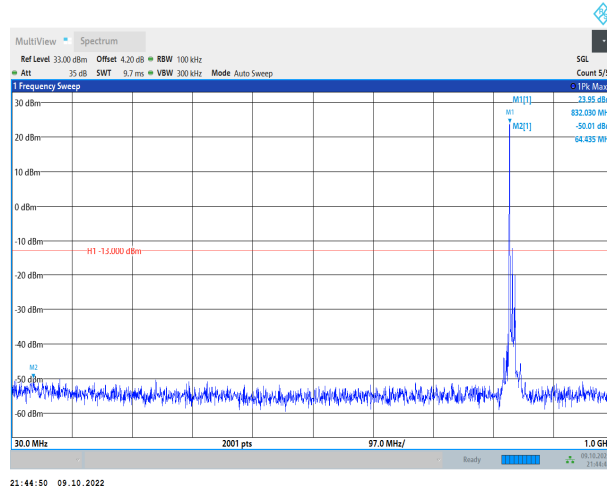


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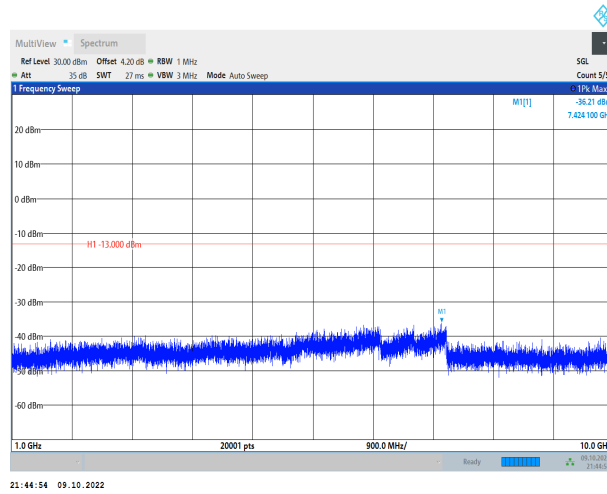
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

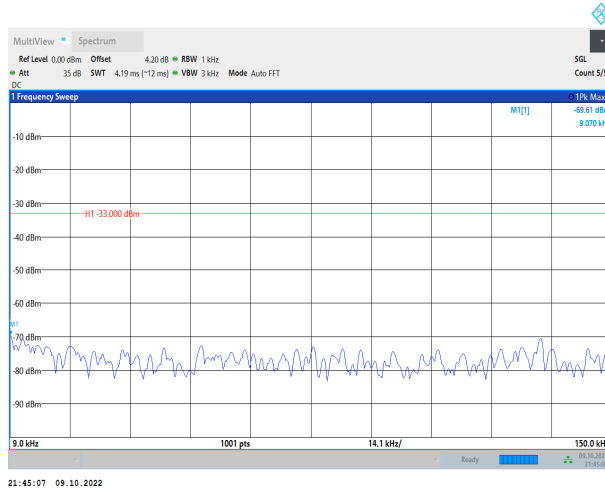


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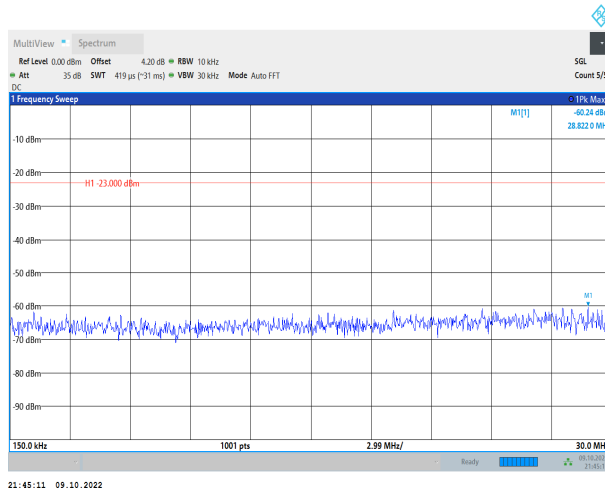
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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

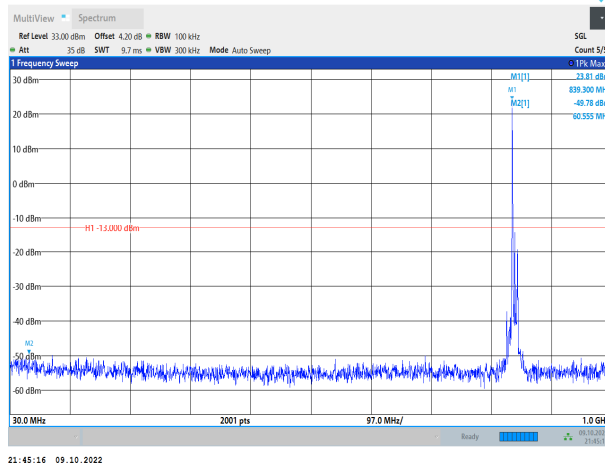


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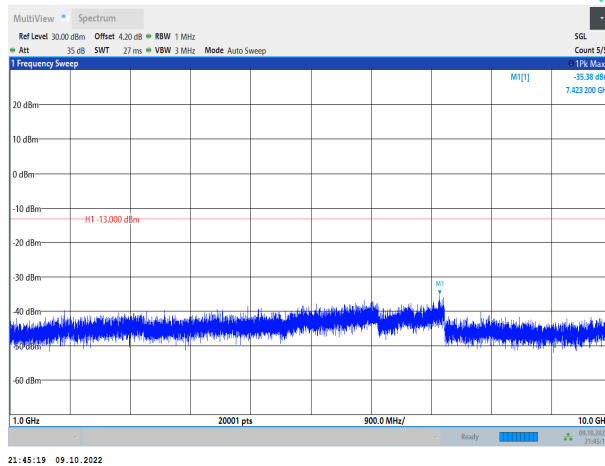
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	58.80	-48.22	25.37	-59.31	-13.00	46.31	155	0	Horizontal
2	2473.7700	60.62	-47.32	27.69	-54.27	-13.00	41.27	148	105	Horizontal
3	3298.3600	50.52	-46.68	29.56	-61.86	-13.00	48.86	165	254	Horizontal
4	4122.9500	50.28	-45.91	30.99	-59.91	-13.00	46.91	132	0	Horizontal
5	4947.5400	48.74	-45.69	32.73	-59.48	-13.00	46.48	199	118	Horizontal
6	5772.1300	48.40	-44.64	33.65	-57.85	-13.00	44.85	125	356	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	56.35	-48.22	25.37	-61.76	-13.00	48.76	145	197	Vertical
2	2473.7700	64.54	-47.32	27.69	-50.35	-13.00	37.35	185	146	Vertical
3	3298.3600	49.91	-46.68	29.56	-62.47	-13.00	49.47	146	26	Vertical
4	4122.9500	53.61	-45.91	30.99	-56.58	-13.00	43.58	236	40	Vertical
5	4947.5400	49.39	-45.69	32.73	-58.83	-13.00	45.83	216	360	Vertical
6	5772.1300	47.37	-44.64	33.65	-58.88	-13.00	45.88	145	360	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	64.63	-48.20	25.38	-53.46	-13.00	40.46	211	199	Horizontal
2	2496.2700	56.64	-47.28	27.76	-58.14	-13.00	45.14	142	254	Horizontal
3	3328.3600	50.30	-46.64	29.52	-62.08	-13.00	49.08	136	3	Horizontal
4	4160.4500	48.61	-45.94	31.04	-61.55	-13.00	48.55	251	52	Horizontal
5	4992.5400	47.34	-45.79	32.86	-60.85	-13.00	47.85	145	105	Horizontal
6	5824.6300	48.00	-44.74	33.80	-58.20	-13.00	45.20	192	239	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	60.31	-48.20	25.38	-57.78	-13.00	44.78	174	186	Vertical
2	2496.2700	59.77	-47.28	27.76	-55.01	-13.00	42.01	158	345	Vertical
3	3328.3600	50.71	-46.64	29.52	-61.67	-13.00	48.67	169	93	Vertical
4	4160.4500	49.67	-45.94	31.04	-60.49	-13.00	47.49	142	40	Vertical
5	4992.5400	49.69	-45.79	32.86	-58.50	-13.00	45.50	130	4	Vertical
6	5824.6300	47.51	-44.74	33.80	-58.69	-13.00	45.69	211	67	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	64.09	-48.18	25.38	-53.97	-13.00	40.97	211	307	Horizontal
2	2518.7700	62.04	-47.21	27.83	-52.59	-13.00	39.59	145	254	Horizontal
3	3358.3600	50.10	-46.60	29.48	-62.28	-13.00	49.28	236	307	Horizontal
4	4197.9500	49.59	-45.96	31.10	-60.53	-13.00	47.53	299	320	Horizontal
5	5037.5400	48.13	-45.65	32.90	-59.88	-13.00	46.88	148	334	Horizontal
6	5887.1300	48.82	-44.93	33.92	-57.45	-13.00	44.45	175	348	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	60.98	-48.18	25.38	-57.08	-13.00	44.08	236	214	Vertical
2	2518.7700	64.29	-47.21	27.83	-50.34	-13.00	37.34	258	147	Vertical
3	3358.3600	49.60	-46.60	29.48	-62.78	-13.00	49.78	148	320	Vertical
4	4197.9500	48.30	-45.96	31.10	-61.82	-13.00	48.82	198	26	Vertical
5	5037.5400	48.86	-45.65	32.90	-59.15	-13.00	46.15	175	12	Vertical
6	5887.1300	47.05	-44.93	33.92	-59.22	-13.00	46.22	146	359	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) - Pre-amplifier (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	-2.80	-0.003347	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.20	-0.006216	±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	3.00	0.003586	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	1.20	0.001435	±2.5	PASS

---End of Attachment---



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