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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.50	18.65	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.51	18.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.55	18.70	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.46	17.61	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.56	18.71	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.59	18.74	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.52	18.67	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.48	17.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.38	18.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.42	18.57	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.40	18.55	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.36	17.51	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.70	17.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.73	17.88	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.78	17.93	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.56	16.71	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.69	17.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.74	17.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.70	17.85	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.55	16.70	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.53	17.68	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.56	17.71	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.47	17.62	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.41	16.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.54	16.69	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.62	16.77	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.70	16.85	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.41	15.56	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.65	16.80	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.69	16.84	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.63	16.78	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.46	15.61	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.44	16.59	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.46	16.61	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.48	16.63	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.32	15.47	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.50	18.65	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.52	18.67	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.49	18.64	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.46	17.61	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.57	18.72	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.55	18.70	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.56	18.71	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.48	17.63	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.44	18.59	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.37	18.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.40	18.55	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.36	17.51	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.70	17.85	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.79	17.94	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.69	17.84	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.48	16.63	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.72	17.87	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.71	17.86	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.74	17.89	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.52	16.67	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.59	17.74	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.47	17.62	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.51	17.66	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	22.38	16.53	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.56	16.71	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.60	16.75	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.59	16.74	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.40	15.55	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.69	16.84	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.72	16.87	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.68	16.83	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.54	15.69	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.54	16.69	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.46	16.61	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.49	16.64	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.34	15.49	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.55	18.70	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.59	18.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.62	18.77	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.53	17.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.63	18.78	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.63	18.78	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.59	18.74	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.52	17.67	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.47	18.62	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.51	18.66	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.45	18.60	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.33	17.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.76	17.91	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.65	17.80	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.82	17.97	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.53	16.68	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.80	17.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.80	17.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.74	17.89	38.45	PASS



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Band5	5MHz	16QAM	20625	1RB#0	23.62	17.77	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.52	17.67	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.58	17.73	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.40	16.55	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.64	16.79	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.73	16.88	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.72	16.87	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.50	15.65	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.71	16.86	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.66	16.81	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.59	16.74	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.49	15.64	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.49	16.64	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.54	16.69	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.45	16.60	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.32	15.47	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.50	18.65	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.64	18.79	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.61	18.76	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.50	17.65	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.63	18.78	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.60	18.75	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.51	18.66	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.48	17.63	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.45	18.60	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.43	18.58	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.42	18.57	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.45	17.60	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.74	17.89	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.79	17.94	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.84	17.99	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	22.53	16.68	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.78	17.93	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.70	17.85	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.64	17.79	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.52	16.67	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.66	17.81	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.55	17.70	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.60	17.75	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.44	16.59	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.51	16.66	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.71	16.86	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.72	16.87	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.49	15.64	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.64	16.79	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.75	16.90	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.59	16.74	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.47	15.62	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.49	16.64	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.46	16.61	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.53	16.68	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.43	15.58	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	5.18	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.00	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.20	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.94	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.82	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.98	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.30	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.18	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.18	13	PASS



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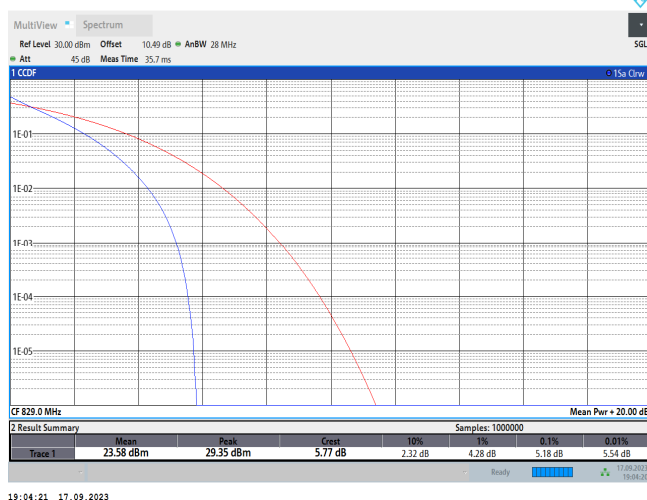
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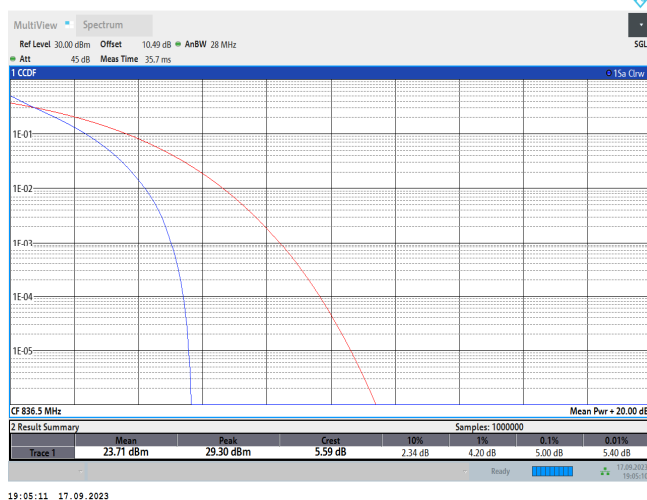
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Test Graphs

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



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



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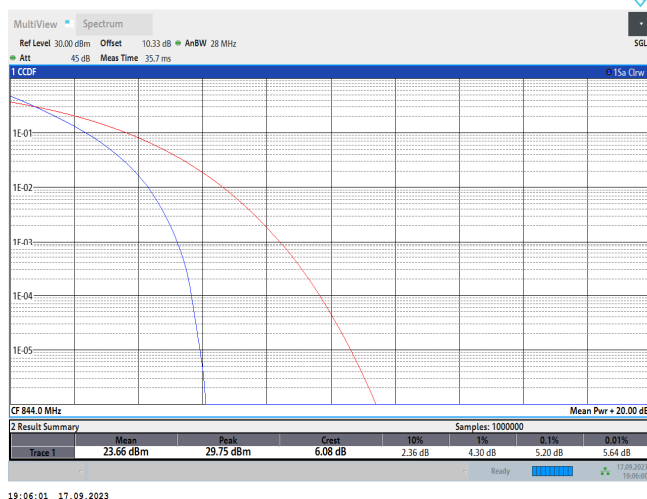
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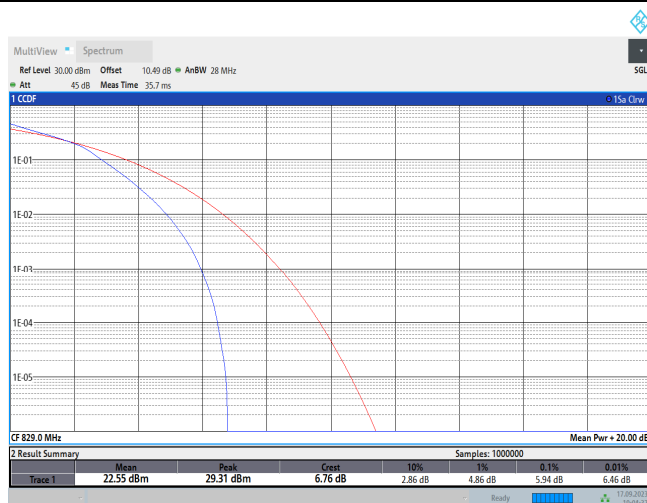
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Band5-10MHz-QPSK-20600-50RB#0



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



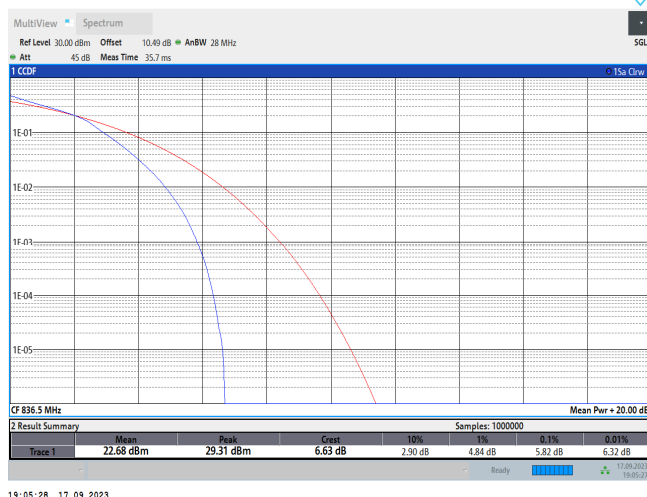
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Band5-10MHz-16QAM-20525-50RB#0



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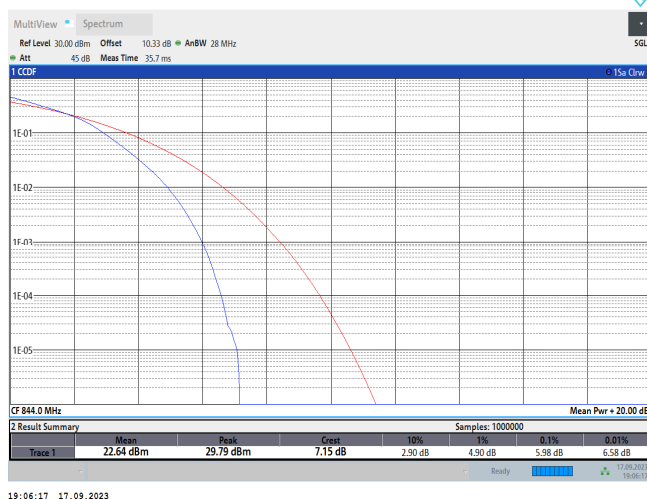
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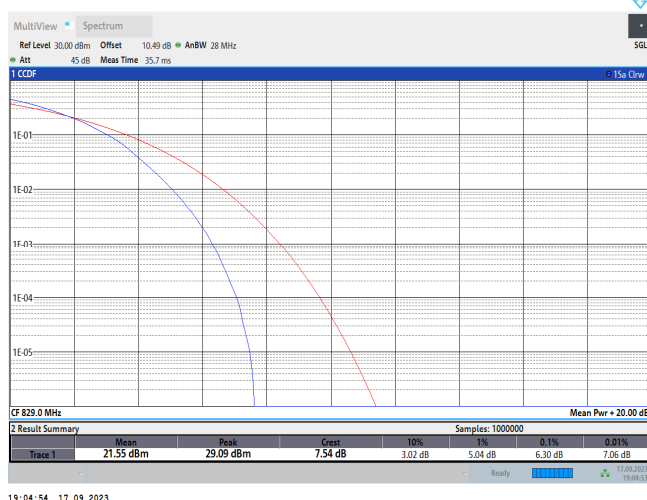
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Band5-10MHz-16QAM-20600-50RB#0



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



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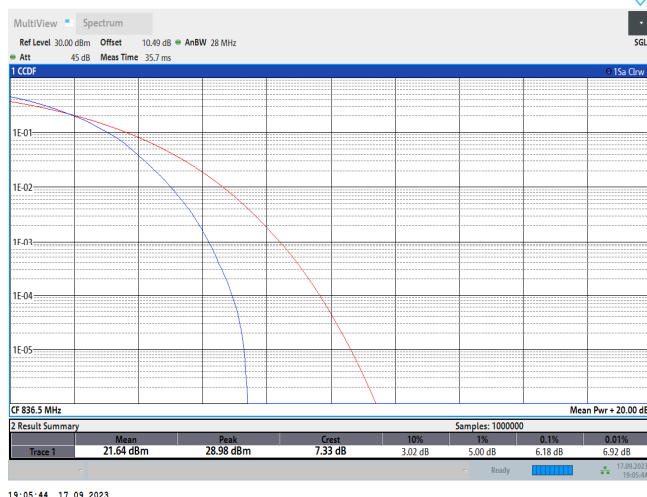
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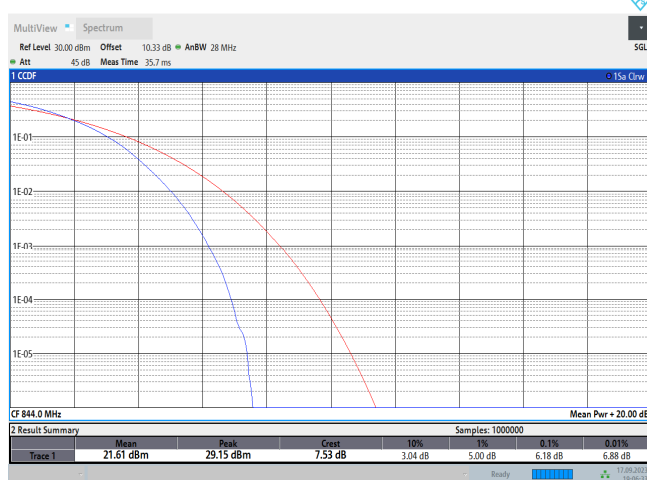
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Band5-10MHz-64QAM-20525-50RB#0



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.077	1.21	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.085	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.085	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.098	1.31	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.31	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.69	2.92	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.93	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.92	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.68	2.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.683	2.92	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.681	2.93	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.683	2.91	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.683	2.91	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.685	2.90	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.47	4.86	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.86	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.85	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.471	4.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.85	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.478	4.87	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.474	4.87	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.477	4.89	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.927	9.56	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.66	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.922	9.64	PASS



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Band5	10MHz	16QAM	20450	50RB#0	8.921	9.62	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.923	9.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.92	9.62	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.927	9.60	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.934	9.62	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.933	9.64	PASS



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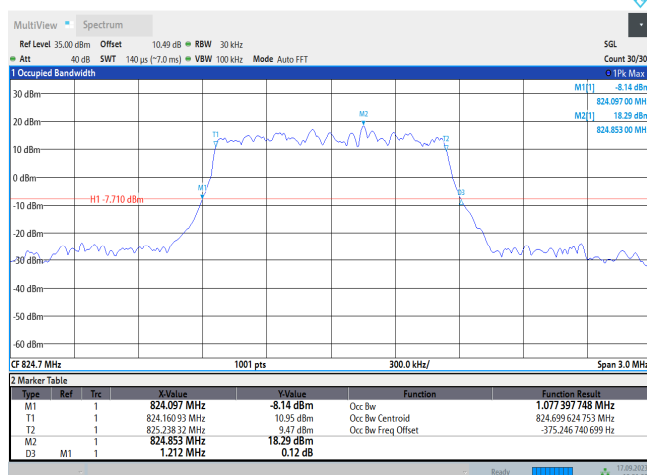
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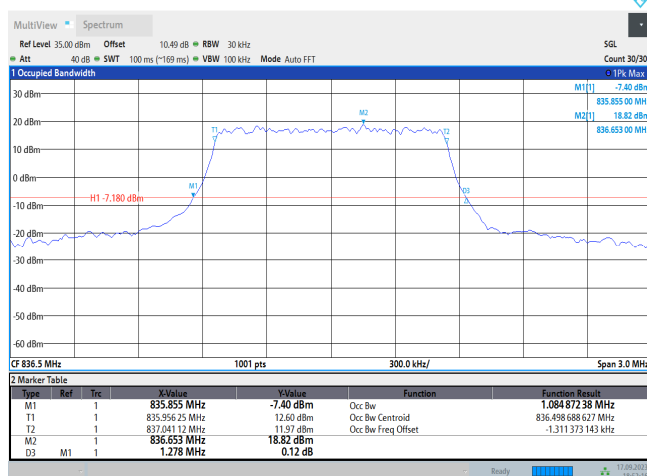
Test Graphs

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



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



18:52:16 17.09.2023



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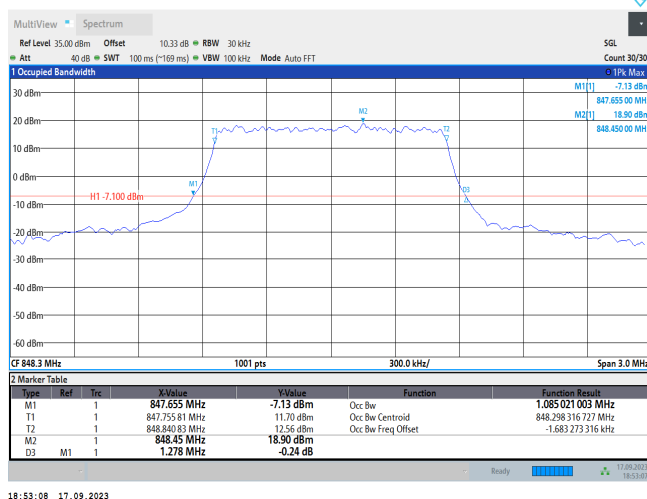
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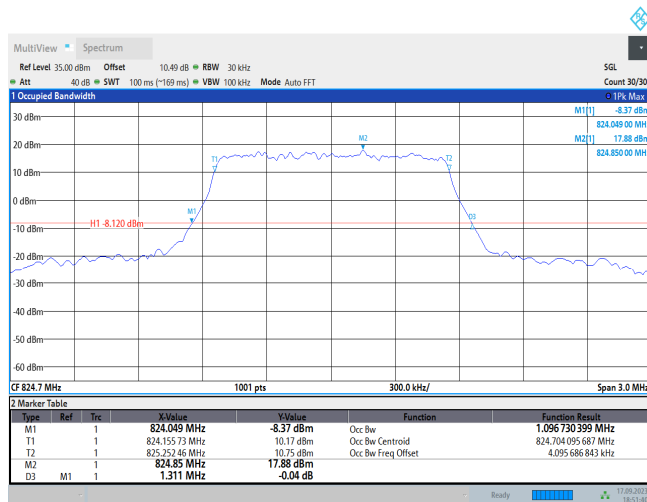
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Band5-1.4MHz-QPSK-20643-6RB#0



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



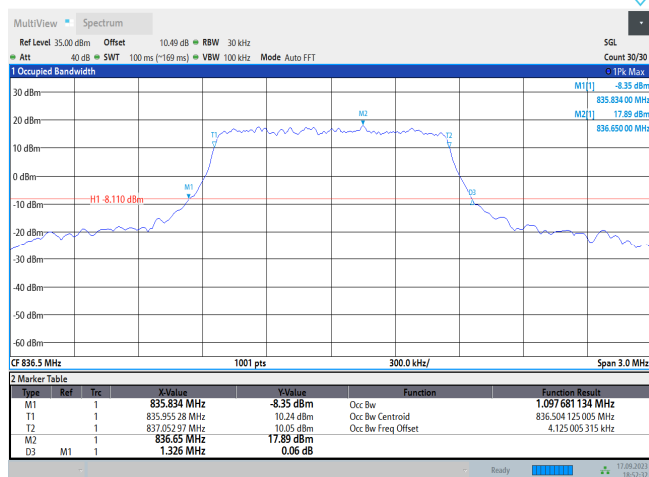
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Band5-1.4MHz-16QAM-20525-6RB#0



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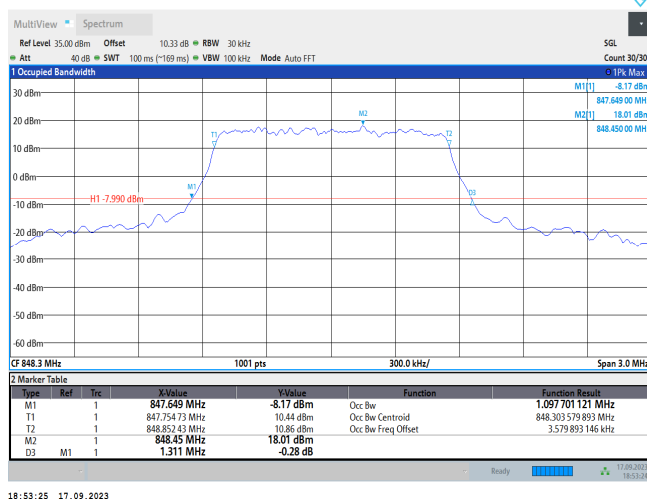
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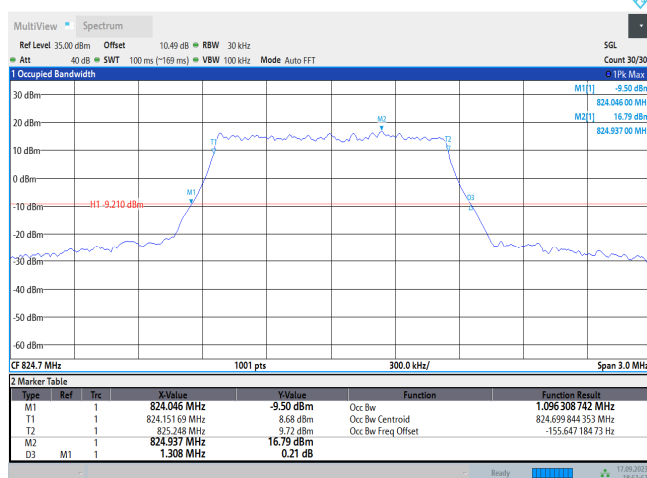
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Band5-1.4MHz-16QAM-20643-6RB#0



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



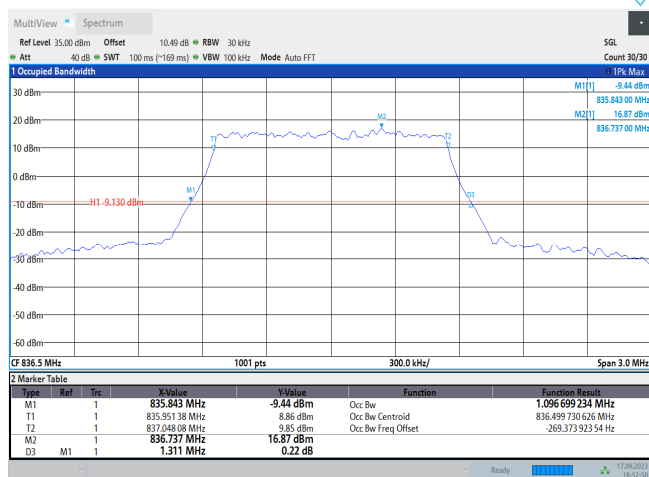
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Band5-1.4MHz-64QAM-20525-6RB#0



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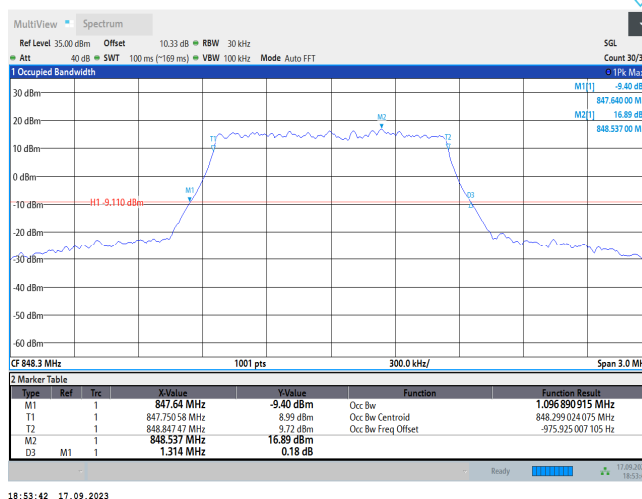
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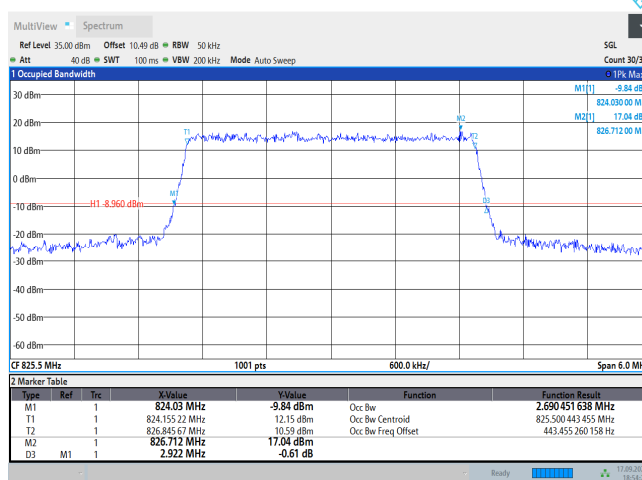
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Band5-1.4MHz-64QAM-20643-6RB#0



18:53:42 17.09.2023

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



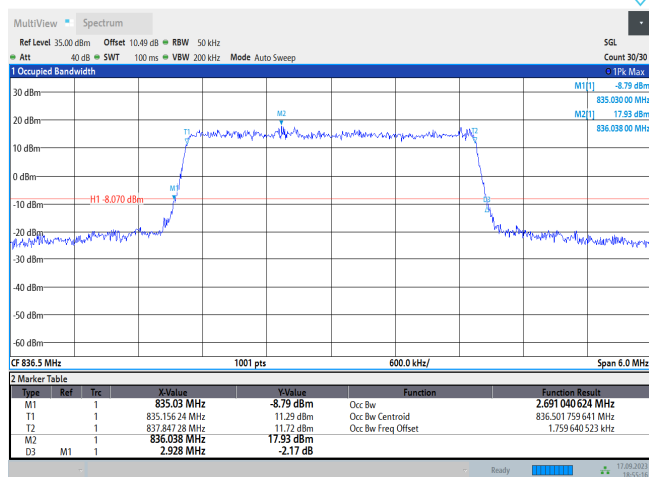
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Band5-3MHz-QPSK-20525-15RB#0



18:55:17 17.09.2023



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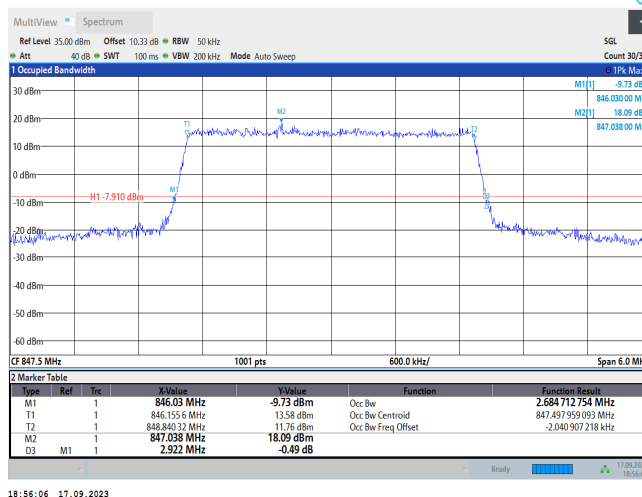
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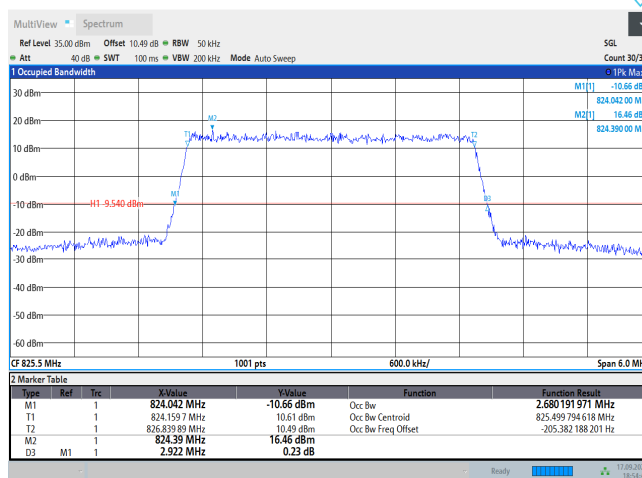
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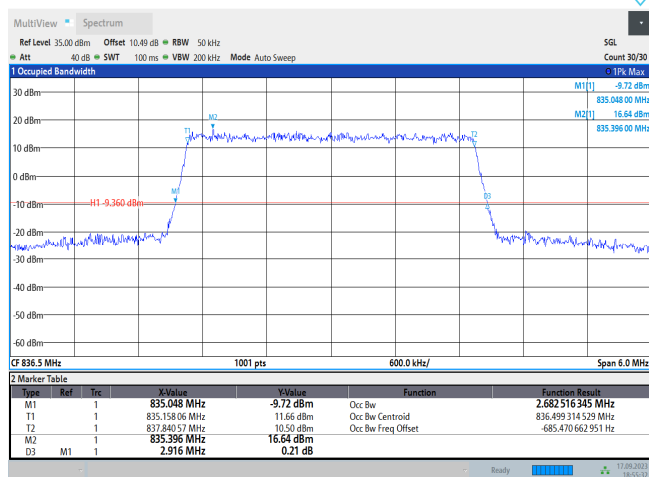
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Band5-3MHz-16QAM-20525-15RB#0



18:55:33 17.09.2023



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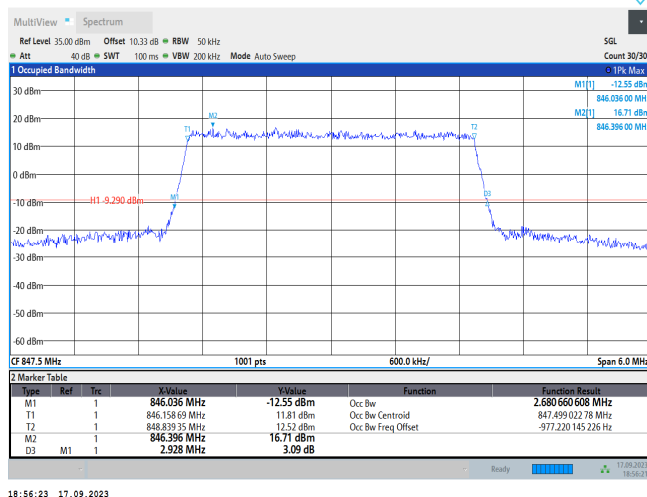
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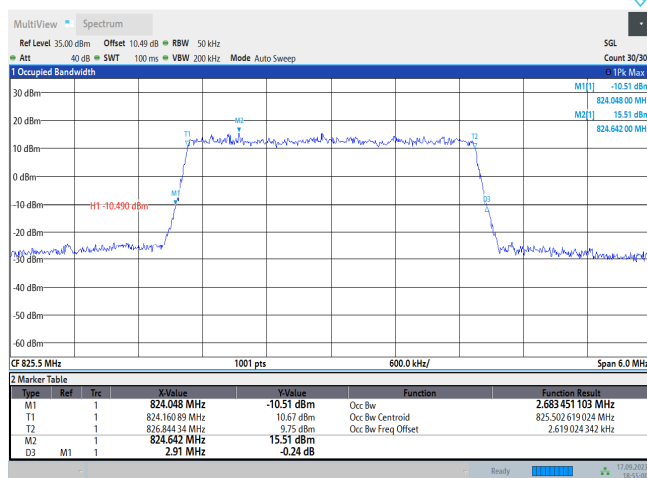
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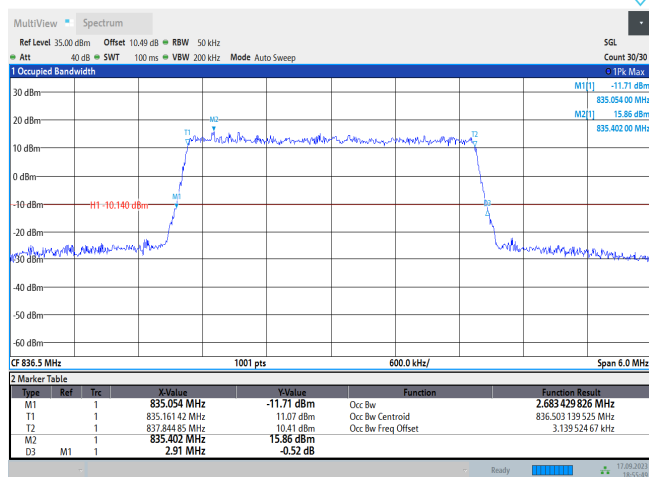
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Band5-3MHz-64QAM-20525-15RB#0



18:55:50 17.09.2023



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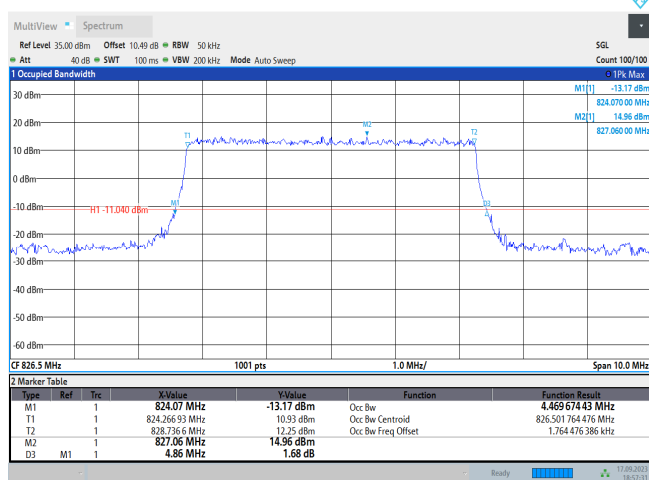
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Band5-3MHz-64QAM-20635-15RB#0



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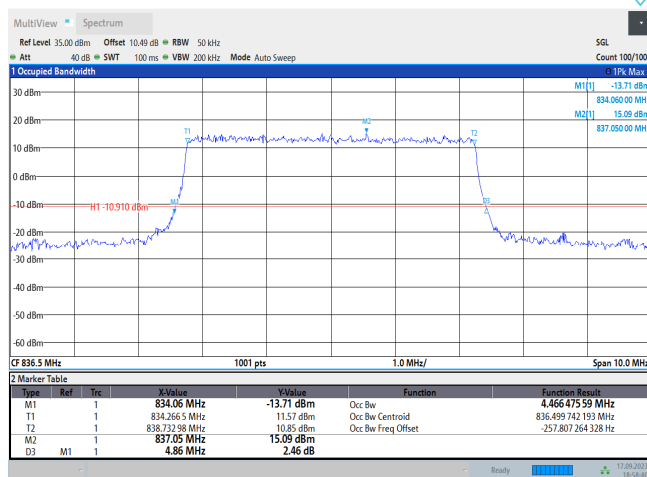


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Band5-5MHz-QPSK-20525-25RB#0



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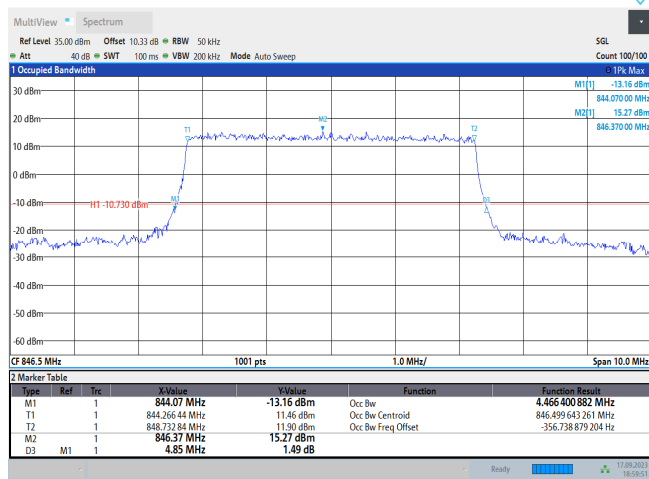
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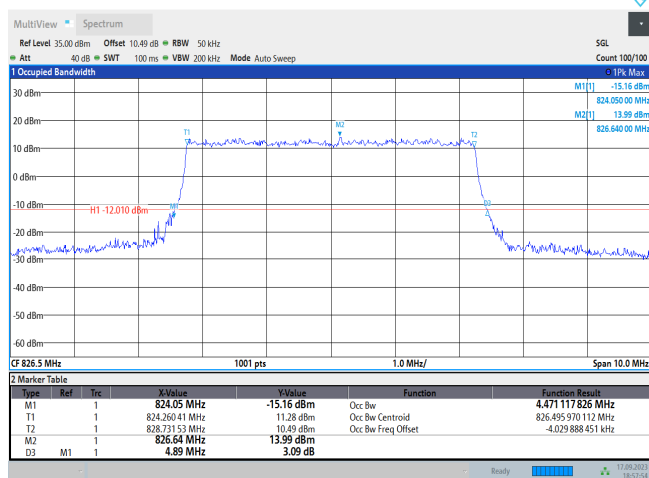
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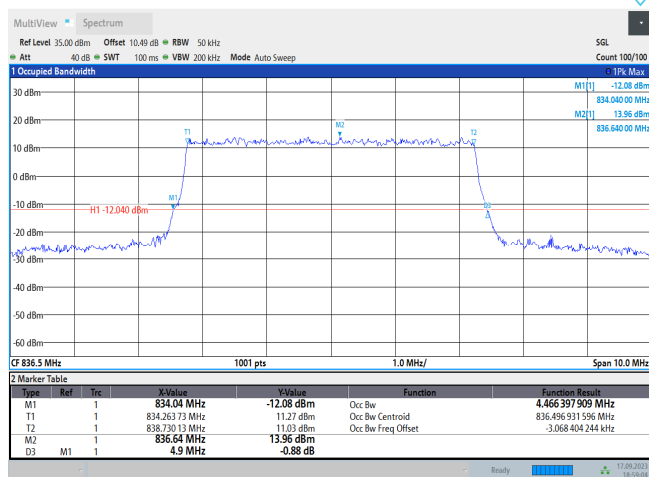


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Band5-5MHz-16QAM-20525-25RB#0



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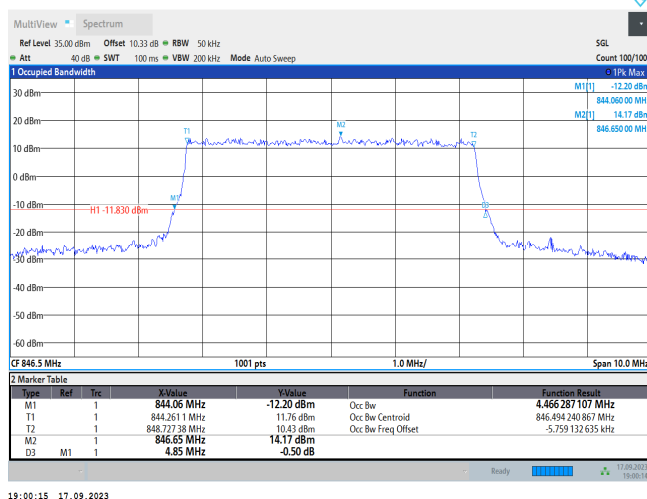
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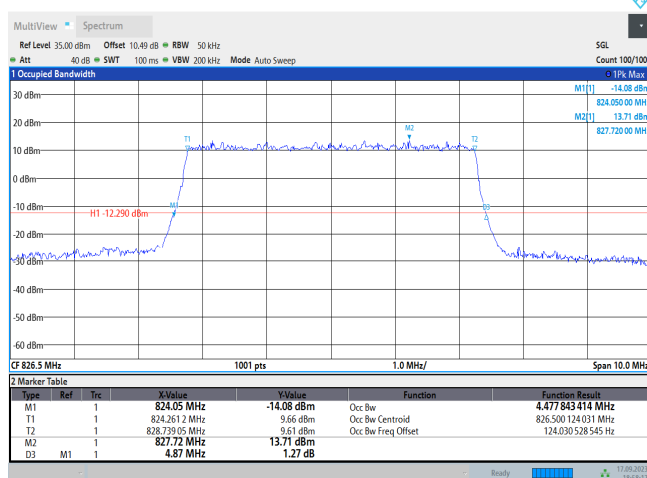
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Band5-5MHz-64QAM-20425-25RB#0



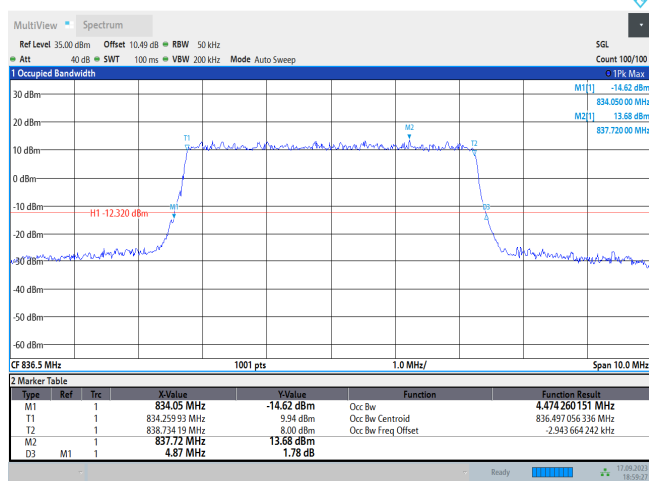
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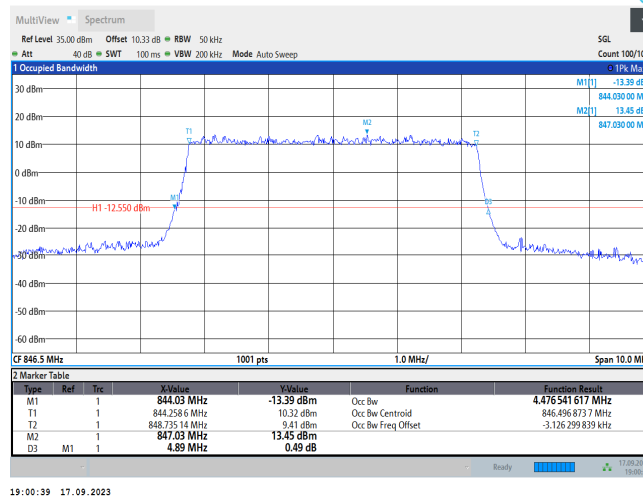


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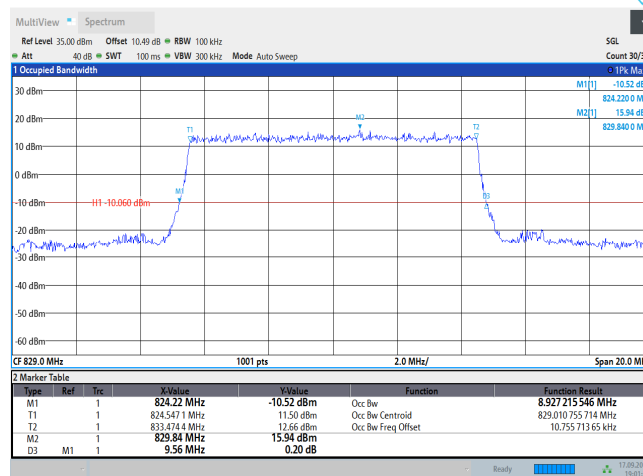
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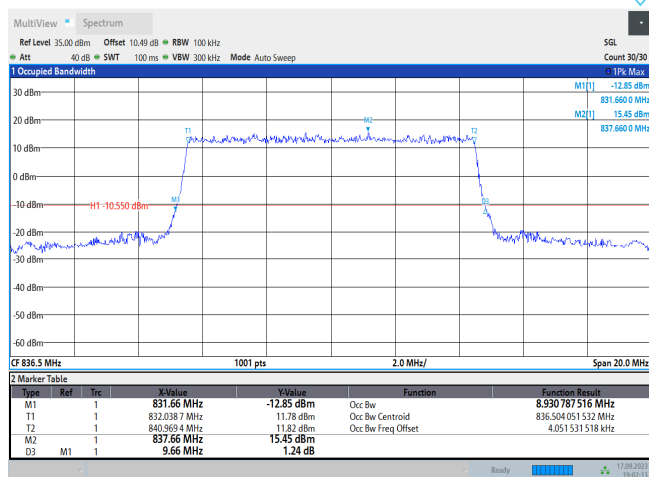
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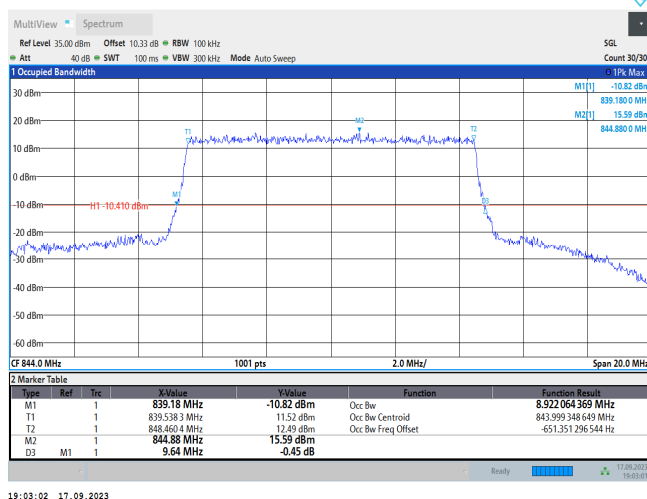


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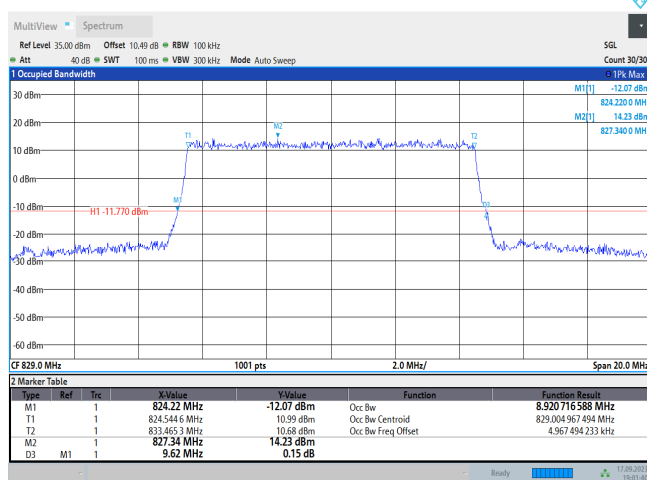
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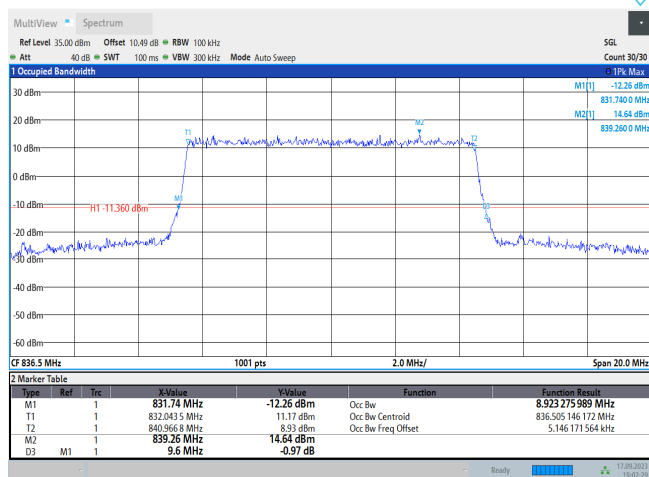
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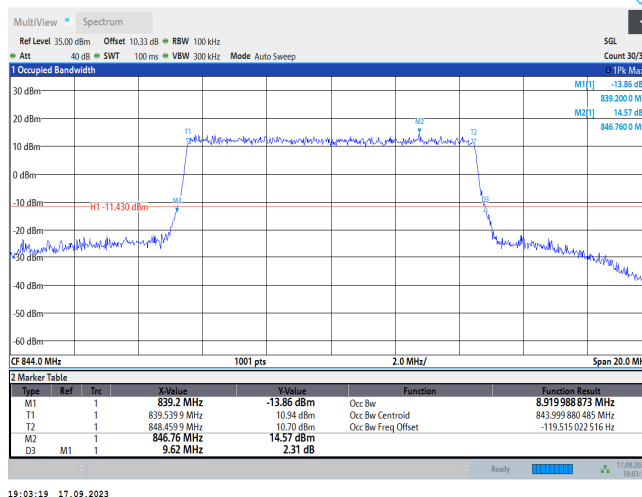


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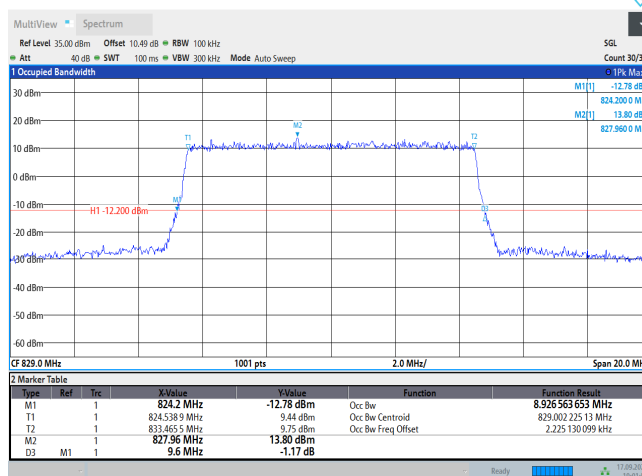
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Band5-10MHz-16QAM-20600-50RB#0



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



19:01:57 17.09.2023



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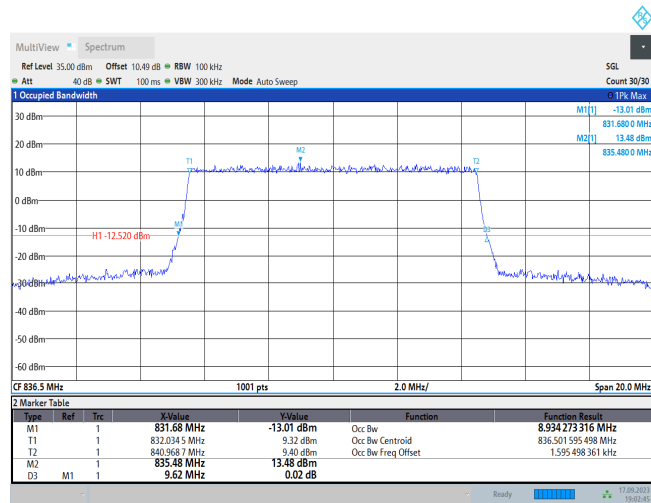
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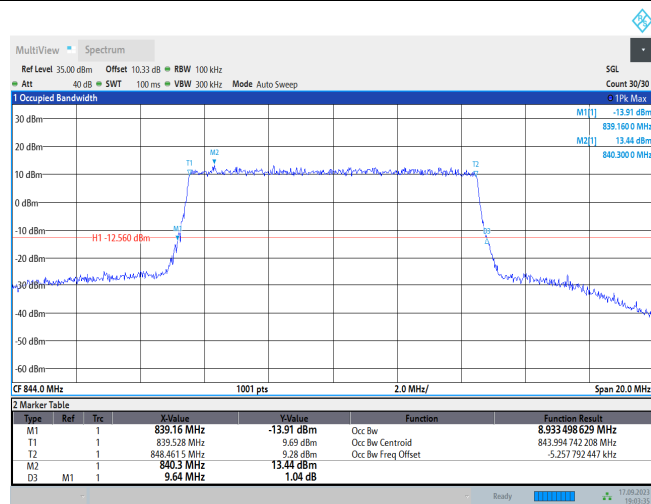
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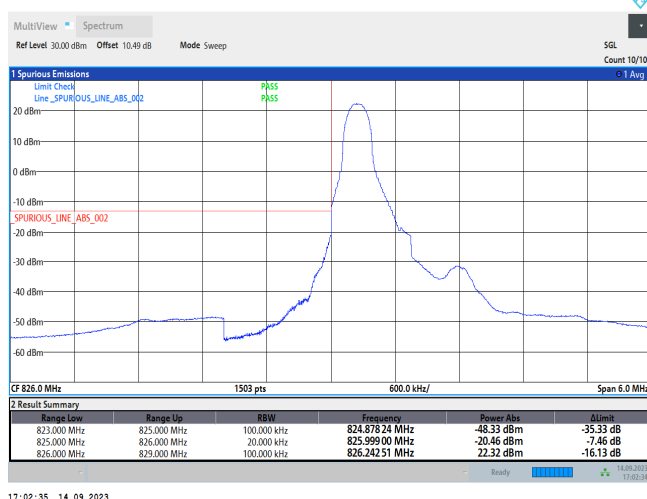
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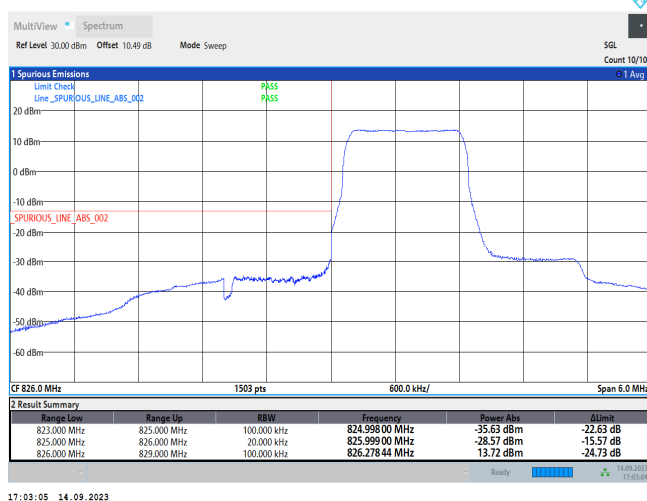
Band Edge

Test Graphs

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



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



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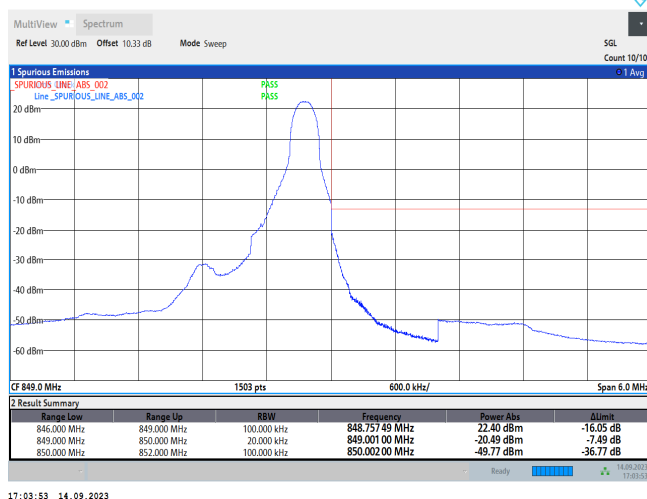
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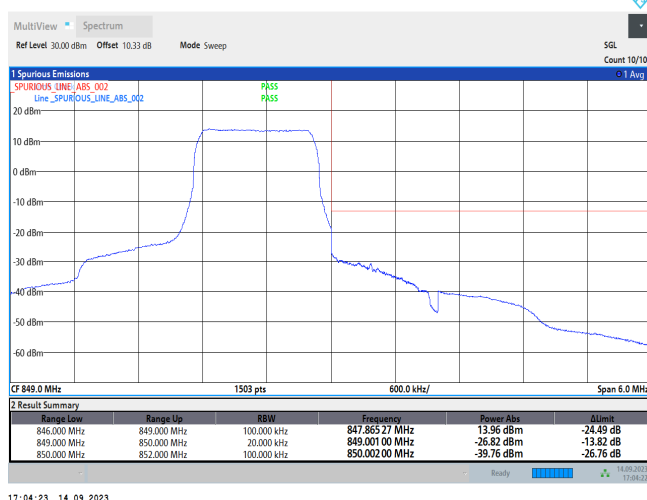
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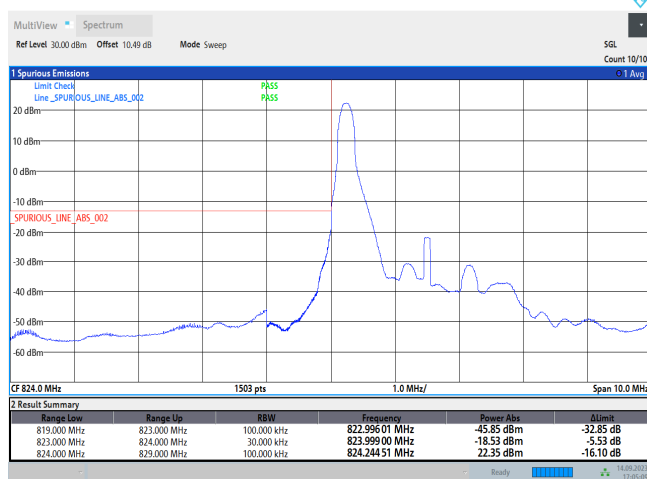


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Band5-3MHz-QPSK-20415-1RB#0



17:05:09 14.09.2023



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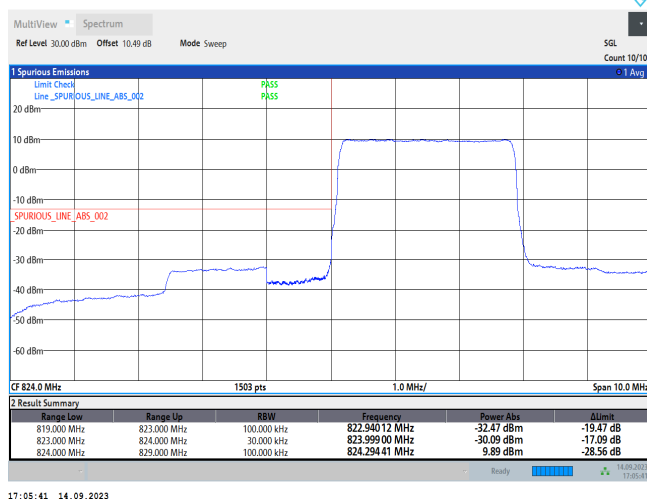
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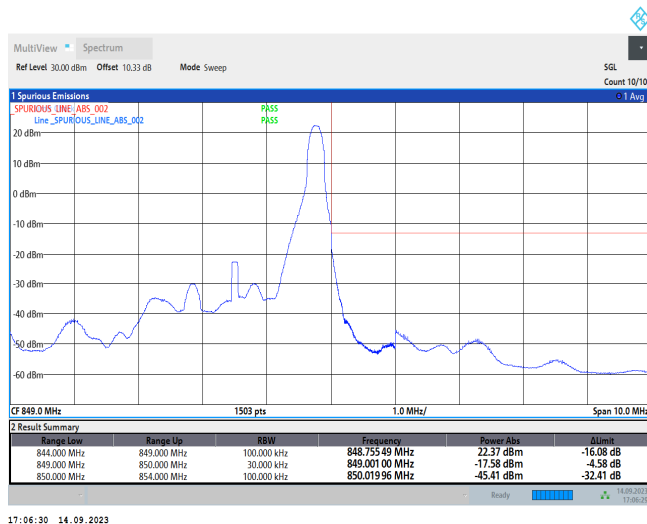
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Band5-3MHz-QPSK-20415-15RB#0



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

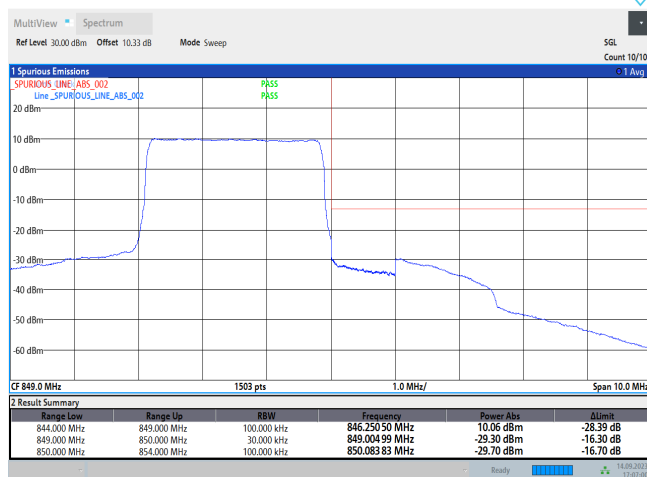


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Band5-3MHz-QPSK-20635-15RB#0



17:07:01 14.09.2023



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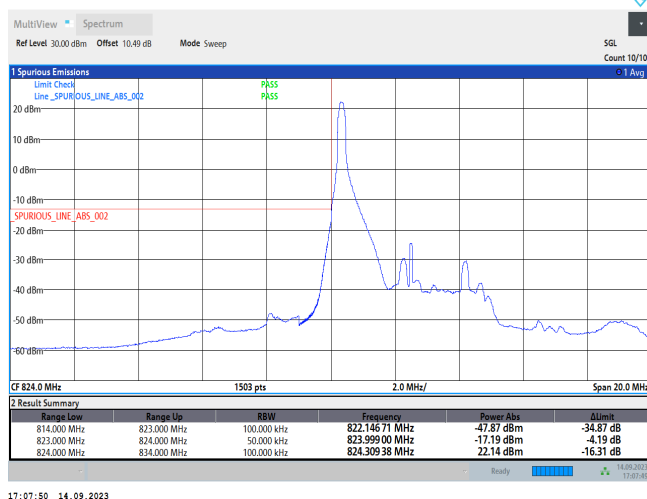
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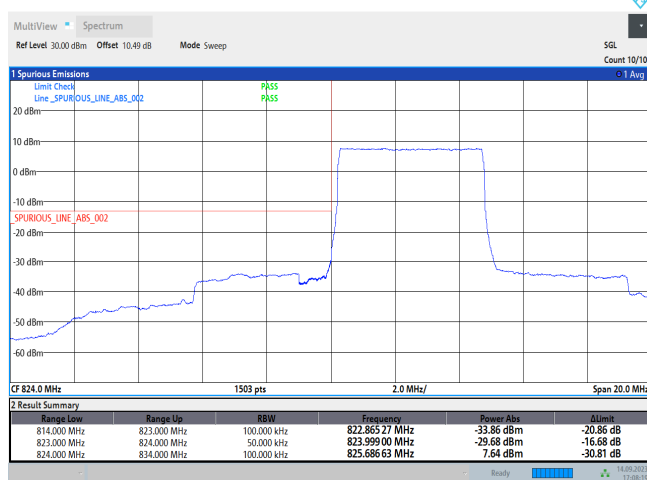
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Band5-5MHz-QPSK-20425-1RB#0



17:07:50 14.09.2023

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



17:08:20 14.09.2023



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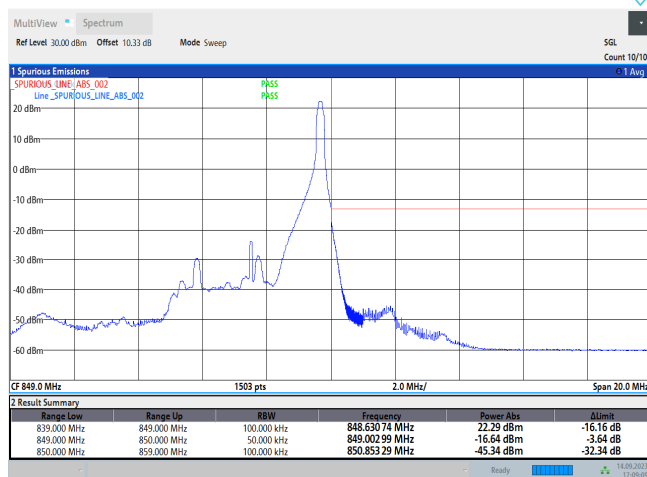
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Band5-5MHz-QPSK-20625-1RB#24



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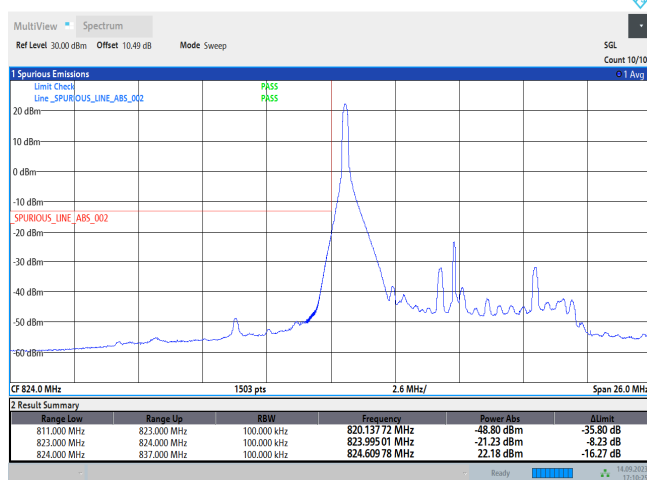
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Band5-5MHz-QPSK-20625-25RB#0



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



17:10:26 14.09.2023



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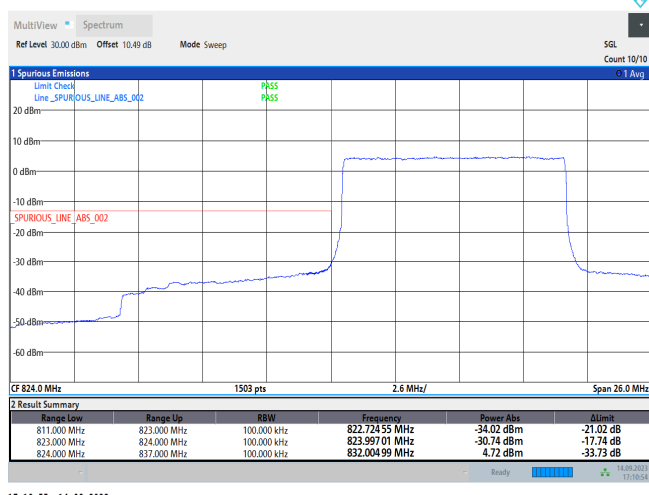
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Band5-10MHz-QPSK-20450-50RB#0



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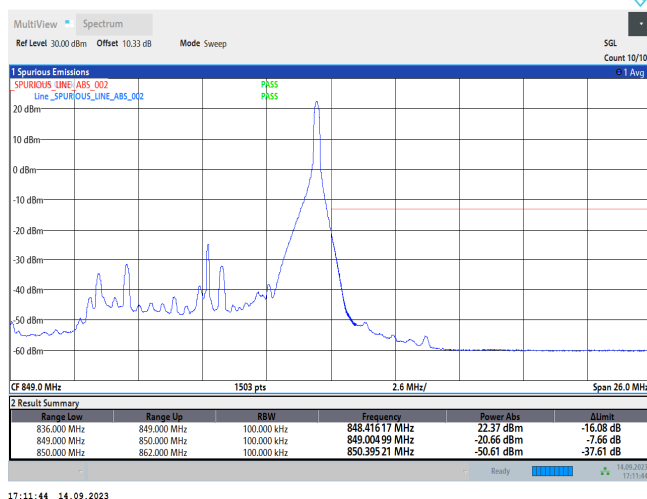
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Band5-10MHz-QPSK-20600-1RB#49



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



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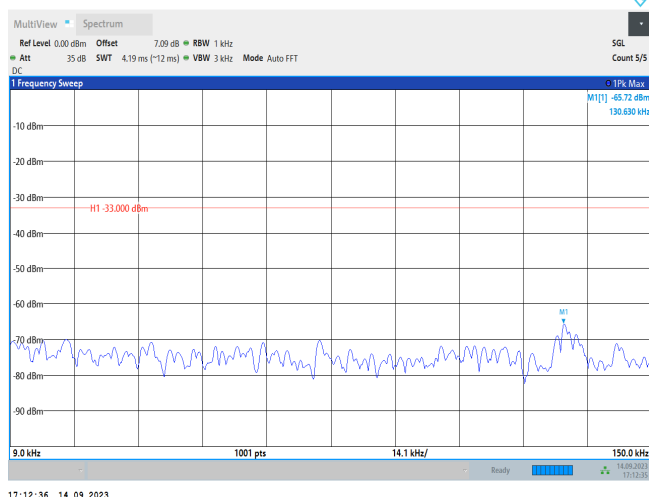
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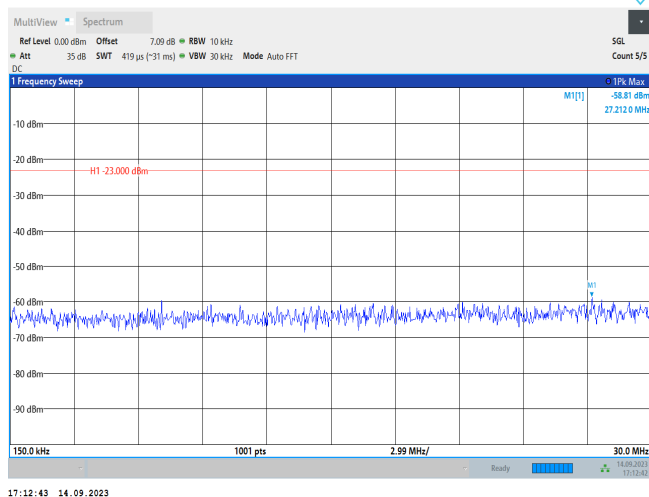
Conducted Spurious Emission

Test Graphs

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



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



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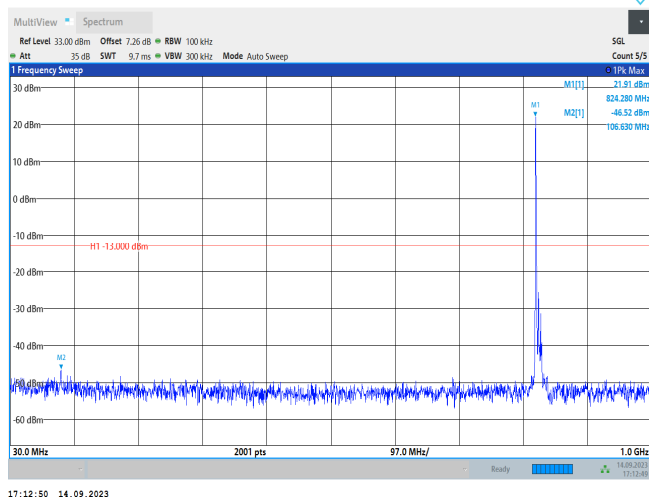
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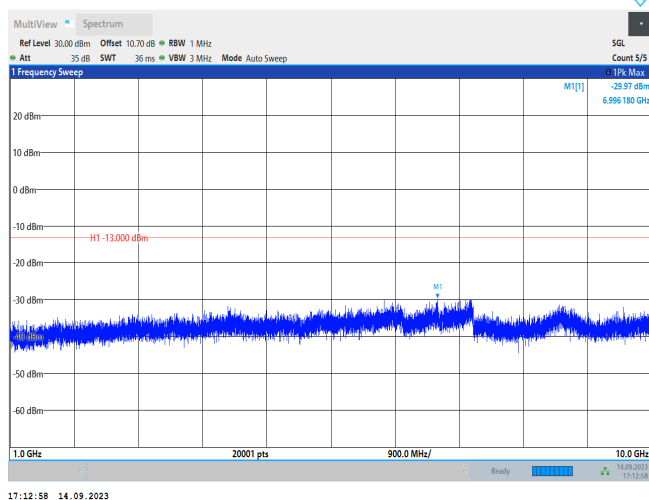
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



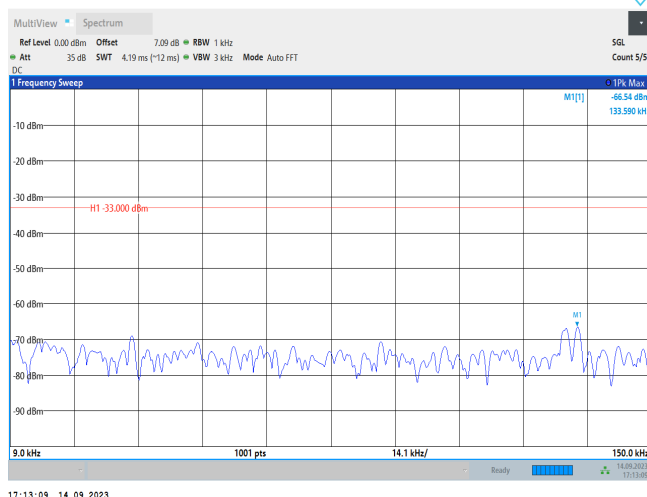


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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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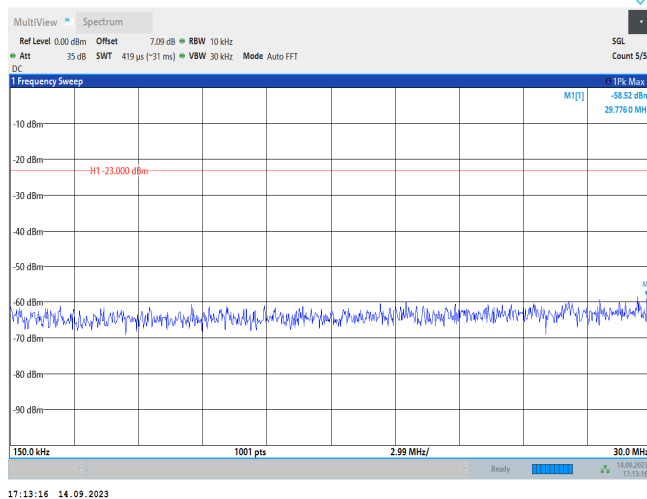
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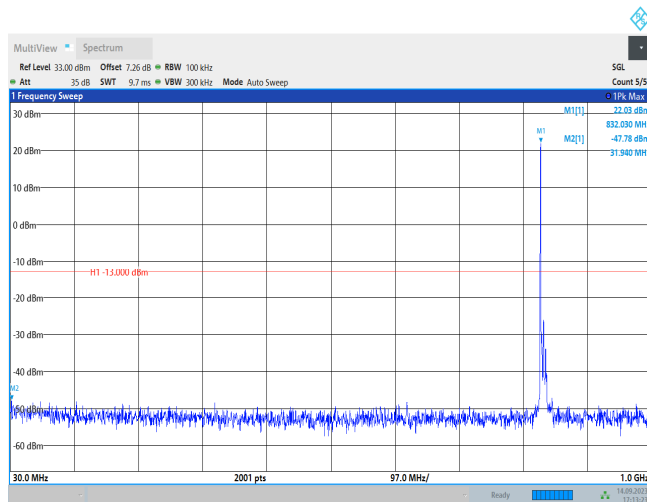
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Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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



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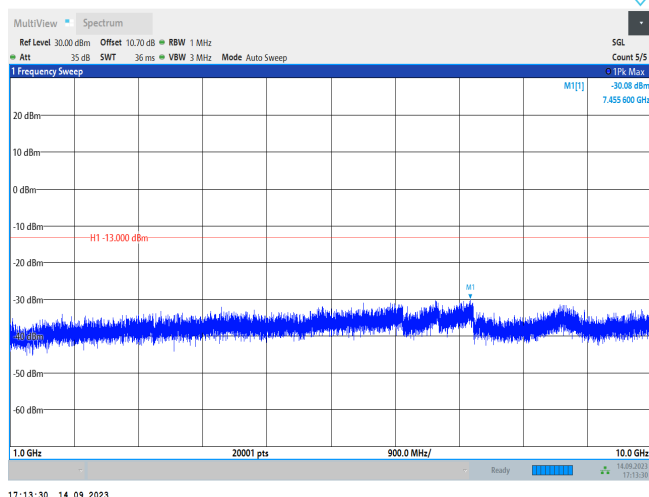
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Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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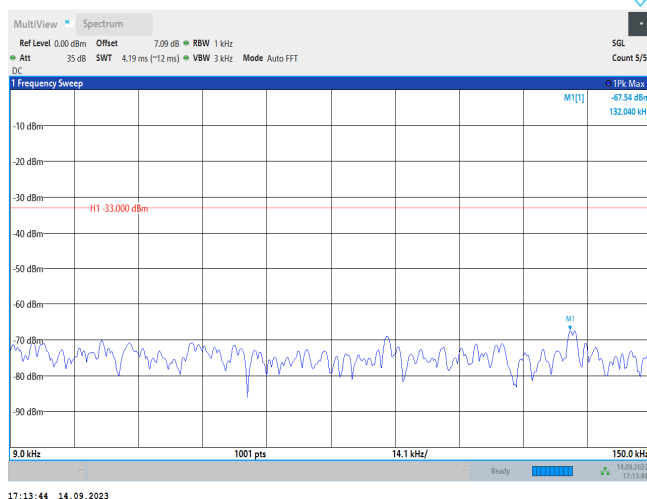
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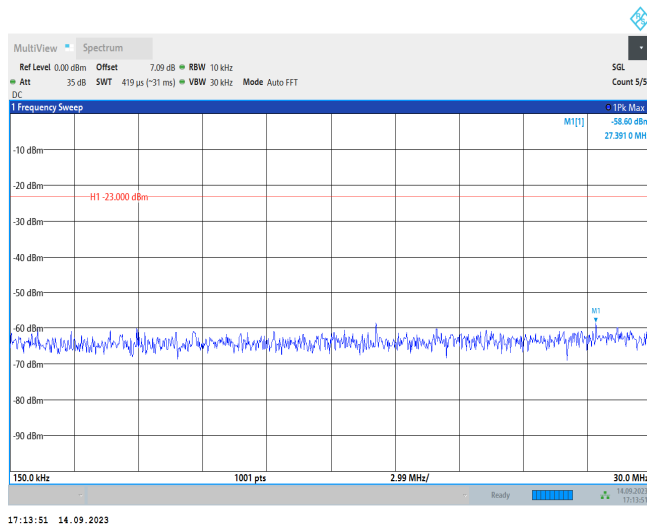
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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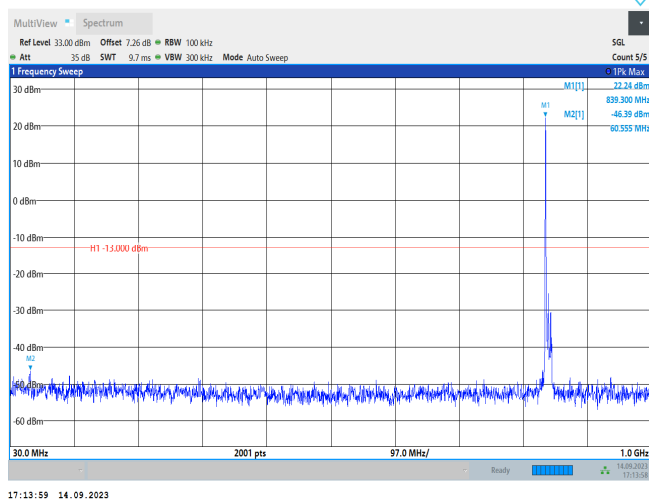
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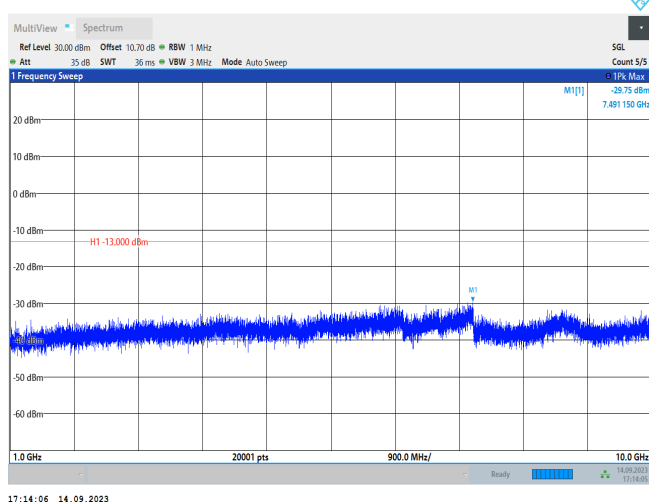
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Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_5 ANT 1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1119.5	48.10	-47.75	24.38	-70.53	-13.00	57.53	Horizontal
2	1649	51.85	-47.52	25.49	-65.44	-13.00	52.44	Horizontal
3	2479.5	47.41	-46.67	27.72	-66.80	-13.00	53.80	Horizontal
4	3967.5	46.50	-44.10	29.87	-62.99	-13.00	49.99	Horizontal
5	6113	44.90	-40.51	33.37	-57.50	-13.00	44.50	Horizontal
6	9566.5	42.27	-35.84	37.80	-51.03	-13.00	38.03	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1333	47.44	-47.72	24.93	-70.61	-13.00	57.61	Vertical
2	1649	48.03	-47.52	25.49	-69.26	-13.00	56.26	Vertical
3	2773	46.74	-46.10	28.19	-66.43	-13.00	53.43	Vertical
4	4279	45.83	-43.09	29.63	-62.89	-13.00	49.89	Vertical
5	6509.5	44.28	-40.43	34.34	-57.07	-13.00	44.07	Vertical
6	9978	42.26	-35.59	38.68	-49.91	-13.00	36.91	Vertical



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Test Band = LTE_5 ANT 1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1199	47.83	-47.89	24.60	-70.72	-13.00	57.72	Horizontal
2	1664	49.75	-47.49	25.39	-67.61	-13.00	54.61	Horizontal
3	2520	47.48	-46.59	27.80	-66.57	-13.00	53.57	Horizontal
4	3955.5	46.79	-44.15	29.89	-62.73	-13.00	49.73	Horizontal
5	5838	45.26	-41.11	32.55	-58.56	-13.00	45.56	Horizontal
6	9918.5	42.03	-35.36	38.62	-49.97	-13.00	36.97	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1186.5	47.76	-47.87	24.57	-70.80	-13.00	57.80	Vertical
2	1806	47.81	-47.32	25.42	-69.35	-13.00	56.35	Vertical
3	3108.5	47.13	-45.85	28.87	-65.11	-13.00	52.11	Vertical
4	4763.5	46.10	-42.91	30.58	-61.49	-13.00	48.49	Vertical
5	6849.5	44.26	-39.62	35.60	-55.02	-13.00	42.02	Vertical
6	9780	42.33	-35.66	38.42	-50.17	-13.00	37.17	Vertical



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Test Band = LTE_5 ANT 1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1226	48.15	-47.89	24.55	-70.45	-13.00	57.45	Horizontal
2	1664	50.49	-47.49	25.39	-66.87	-13.00	53.87	Horizontal
3	2188	47.29	-46.99	26.80	-68.16	-13.00	55.16	Horizontal
4	3836.5	47.16	-44.90	29.73	-63.27	-13.00	50.27	Horizontal
5	5735	45.17	-41.25	32.50	-58.84	-13.00	45.84	Horizontal
6	9910	41.81	-35.33	38.61	-50.17	-13.00	37.17	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1228	47.82	-47.89	24.54	-70.79	-13.00	57.79	Vertical
2	1664	47.87	-47.49	25.39	-69.49	-13.00	56.49	Vertical
3	2385.5	47.41	-46.61	27.46	-67.00	-13.00	54.00	Vertical
4	4795.5	45.93	-42.88	30.77	-61.44	-13.00	48.44	Vertical
5	7387.5	44.31	-38.40	36.65	-52.70	-13.00	39.70	Vertical
6	9912	42.02	-35.34	38.61	-49.97	-13.00	36.97	Vertical



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Test Band = LTE_5 ANT 0

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649	48.41	-47.52	25.49	-68.88	-13.00	55.88	Horizontal
2	2331.5	47.37	-46.63	27.42	-67.10	-13.00	54.10	Horizontal
3	3716.5	46.63	-44.60	29.40	-63.83	-13.00	50.83	Horizontal
4	5156	44.93	-42.57	31.81	-61.09	-13.00	48.09	Horizontal
5	7409.5	43.15	-38.35	36.72	-53.74	-13.00	40.74	Horizontal
6	9946	40.94	-35.47	38.65	-51.14	-13.00	38.14	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1437	47.40	-47.48	25.20	-70.14	-13.00	57.14	Vertical
2	2196	47.06	-47.00	26.87	-68.33	-13.00	55.33	Vertical
3	3059	46.84	-45.81	28.82	-65.41	-13.00	52.41	Vertical
4	4407.5	45.77	-43.25	30.10	-62.64	-13.00	49.64	Vertical
5	7424.5	43.35	-38.36	36.75	-53.52	-13.00	40.52	Vertical
6	9886.5	41.02	-35.32	38.49	-51.07	-13.00	38.07	Vertical



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Test Band = LTE_5 ANT 0
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1455	47.35	-47.52	25.26	-70.17	-13.00	57.17	Horizontal
2	2348	47.05	-46.63	27.58	-67.26	-13.00	54.26	Horizontal
3	3111	47.10	-45.83	28.86	-65.13	-13.00	52.13	Horizontal
4	4384.5	45.81	-43.21	30.04	-62.62	-13.00	49.62	Horizontal
5	6052	44.20	-40.58	33.50	-58.14	-13.00	45.14	Horizontal
6	9898.5	41.00	-35.29	38.59	-50.96	-13.00	37.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1452	47.07	-47.51	25.28	-70.42	-13.00	57.42	Vertical
2	2376.5	47.19	-46.62	27.49	-67.20	-13.00	54.20	Vertical
3	3123.5	46.80	-45.76	28.81	-65.41	-13.00	52.41	Vertical
4	4800.5	45.22	-42.88	30.80	-62.12	-13.00	49.12	Vertical
5	7415	43.00	-38.35	36.73	-53.88	-13.00	40.88	Vertical
6	9918	41.04	-35.36	38.62	-50.96	-13.00	37.96	Vertical



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Test Band = LTE_5 ANT 0
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1755	47.67	-47.38	25.04	-69.93	-13.00	56.93	Horizontal
2	2346.5	47.30	-46.63	27.57	-67.02	-13.00	54.02	Horizontal
3	3686	46.51	-44.48	29.30	-63.93	-13.00	50.93	Horizontal
4	6000.5	44.76	-40.74	33.01	-58.23	-13.00	45.23	Horizontal
5	7402.5	42.92	-38.35	36.71	-53.98	-13.00	40.98	Horizontal
6	9938	41.15	-35.44	38.64	-50.91	-13.00	37.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1431	47.20	-47.46	25.15	-70.37	-13.00	57.37	Vertical
2	2336	47.25	-46.63	27.46	-67.18	-13.00	54.18	Vertical
3	3087.5	46.82	-45.87	28.88	-65.43	-13.00	52.43	Vertical
4	4290.5	46.36	-42.98	29.56	-62.32	-13.00	49.32	Vertical
5	7407.5	43.11	-38.35	36.72	-53.78	-13.00	40.78	Vertical
6	9917.5	41.16	-35.36	38.62	-50.84	-13.00	37.84	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	3.71	0.004435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-5.64	-0.006742	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-3.30	-0.003945	±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	-6.08	-0.007268	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.57	0.001877	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-6.02	-0.007197	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	2.56	0.003060	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.32	-0.003969	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-5.44	-0.006503	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-4.58	-0.005475	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-4.18	-0.004997	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.82	-0.004567	±2.5	PASS

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