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Appendix B.2

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	23.27	20.59	38.47	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.44	20.76	38.47	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.26	20.58	38.47	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.91	20.23	38.47	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.36	20.68	38.47	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.47	20.79	38.47	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.36	20.68	38.47	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.87	20.19	38.47	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.31	20.63	38.47	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.40	20.72	38.47	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.46	20.78	38.47	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.94	20.26	38.47	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.22	20.54	38.47	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.28	20.6	38.47	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.11	20.43	38.47	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.96	19.28	38.47	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.25	20.57	38.47	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.20	20.52	38.47	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.20	20.52	38.47	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.90	19.22	38.47	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.15	20.47	38.47	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.14	20.46	38.47	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.12	20.44	38.47	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.08	19.4	38.47	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.14	19.46	38.47	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.48	19.8	38.47	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.21	19.53	38.47	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	20.93	18.25	38.47	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.11	19.43	38.47	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.09	19.41	38.47	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.13	19.45	38.47	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.87	18.19	38.47	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.15	19.47	38.47	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.15	19.47	38.47	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.11	19.43	38.47	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.99	18.31	38.47	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.41	20.73	38.47	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.58	20.9	38.47	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.47	20.79	38.47	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.03	20.35	38.47	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.51	20.83	38.47	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.55	20.87	38.47	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.54	20.86	38.47	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.00	20.32	38.47	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.43	20.75	38.47	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.62	20.94	38.47	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.50	20.82	38.47	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.12	20.44	38.47	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.26	20.58	38.47	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.38	20.7	38.47	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.33	20.65	38.47	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.03	19.35	38.47	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.47	20.79	38.47	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.30	20.62	38.47	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.37	20.69	38.47	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.89	19.21	38.47	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.57	20.89	38.47	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.19	20.51	38.47	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.40	20.72	38.47	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.10	19.42	38.47	PASS



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Band5	3MHz	64QAM	20415	1RB#0	22.18	19.5	38.47	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.24	19.56	38.47	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.32	19.64	38.47	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.07	18.39	38.47	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.10	19.42	38.47	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.32	19.64	38.47	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.23	19.55	38.47	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.07	18.39	38.47	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.13	19.45	38.47	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.29	19.61	38.47	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.28	19.6	38.47	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.14	18.46	38.47	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.36	20.68	38.47	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.41	20.73	38.47	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.39	20.71	38.47	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.88	20.2	38.47	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.38	20.7	38.47	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.31	20.63	38.47	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.36	20.68	38.47	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.85	20.17	38.47	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.34	20.66	38.47	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.36	20.68	38.47	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.43	20.75	38.47	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.89	20.21	38.47	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.17	20.49	38.47	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.19	20.51	38.47	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.28	20.6	38.47	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.91	19.23	38.47	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.34	20.66	38.47	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.98	20.3	38.47	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.35	20.67	38.47	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.92	19.24	38.47	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.24	20.56	38.47	PASS



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Band5	5MHz	16QAM	20625	1RB#24	23.07	20.39	38.47	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.82	19.14	38.47	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.24	19.56	38.47	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.95	19.27	38.47	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.16	19.48	38.47	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.97	18.29	38.47	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.24	19.56	38.47	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.17	19.49	38.47	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.16	19.48	38.47	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.92	18.24	38.47	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.12	19.44	38.47	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.94	19.26	38.47	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.98	19.3	38.47	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.91	18.23	38.47	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.31	20.63	38.47	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.30	20.62	38.47	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.27	20.59	38.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.95	20.27	38.47	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.26	20.58	38.47	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.40	20.72	38.47	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.35	20.67	38.47	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.99	20.31	38.47	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.31	20.63	38.47	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.35	20.67	38.47	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.44	20.76	38.47	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.95	20.27	38.47	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.09	20.41	38.47	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.09	20.41	38.47	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.16	20.48	38.47	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.01	19.33	38.47	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.06	20.38	38.47	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.27	20.59	38.47	PASS



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Band5	10MHz	16QAM	20525	50RB#0	21.88	19.2	38.47	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.09	20.41	38.47	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.06	20.38	38.47	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.05	20.37	38.47	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.98	19.3	38.47	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.09	19.41	38.47	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.26	19.58	38.47	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.16	19.48	38.47	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.08	18.4	38.47	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.10	19.42	38.47	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.11	19.43	38.47	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.17	19.49	38.47	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.96	18.28	38.47	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.06	19.38	38.47	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.06	19.38	38.47	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.18	19.5	38.47	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.97	18.29	38.47	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	5.00	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.06	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.92	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.78	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.70	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.46	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.26	13	PASS



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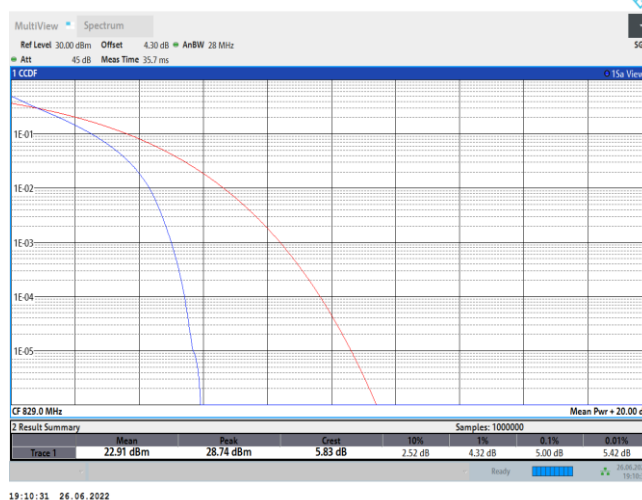
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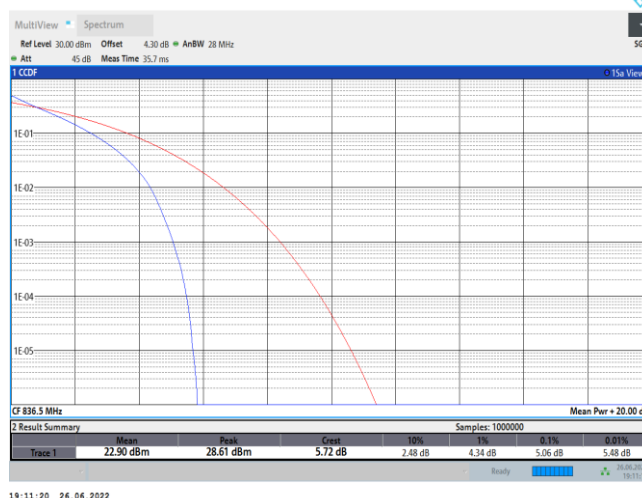
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Test Graphs

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



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



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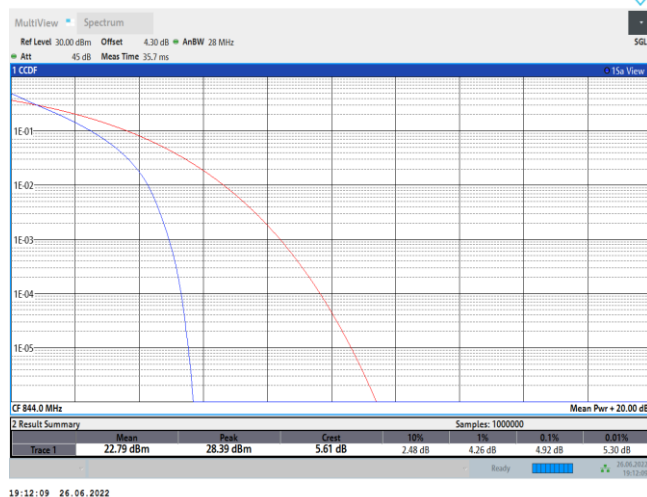
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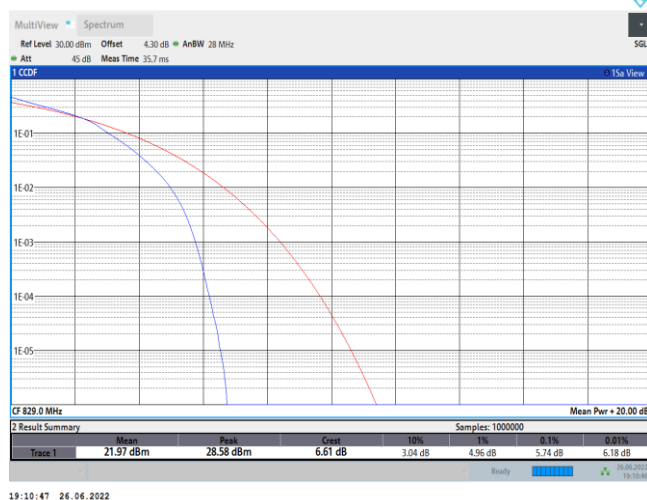
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Band5-10MHz-QPSK-20600-50RB#0



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



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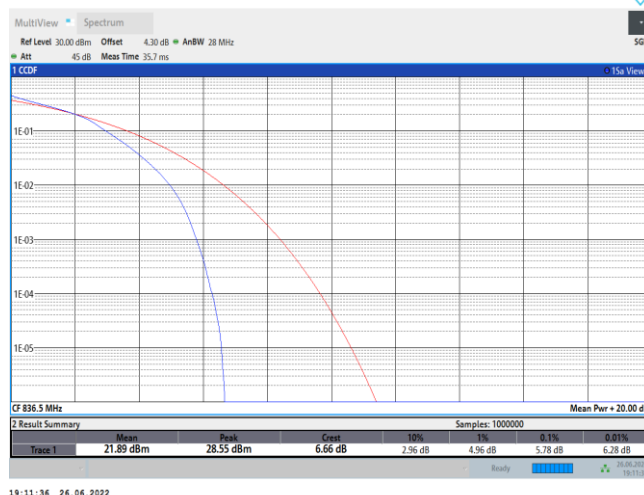
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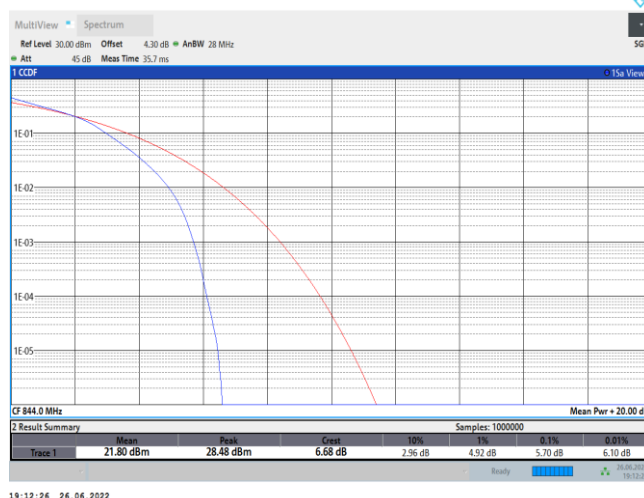
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Band5-10MHz-16QAM-20525-50RB#0



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



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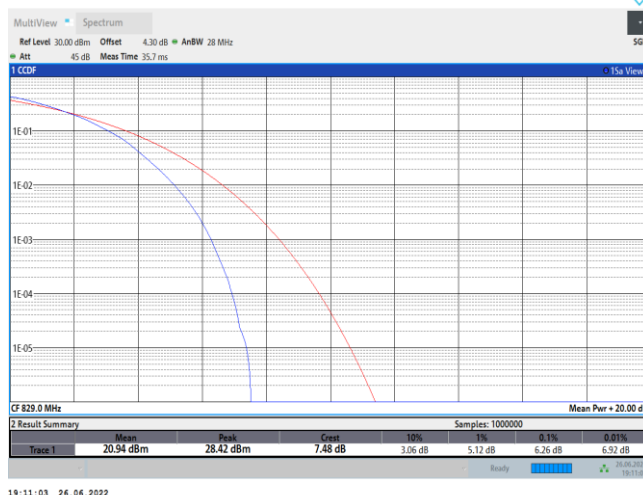
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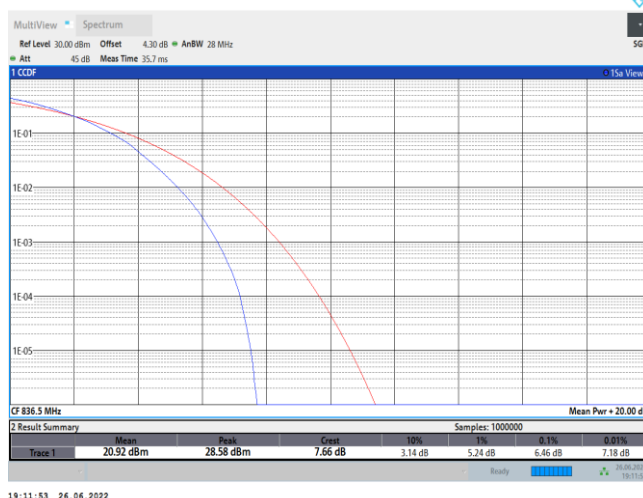
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Band5-10MHz-64QAM-20450-50RB#0



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



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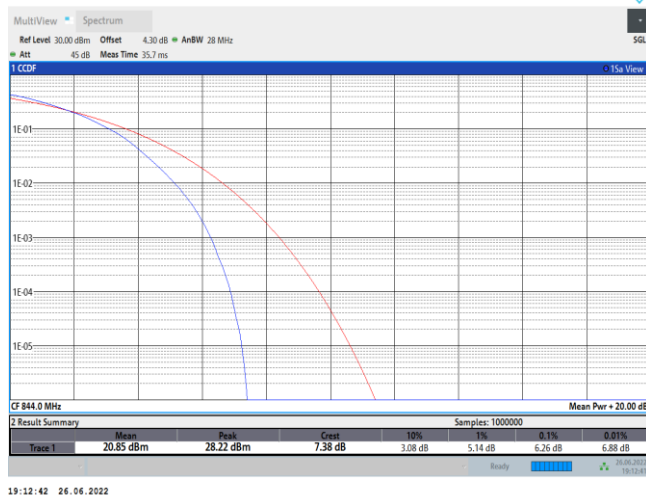
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Band5-10MHz-64QAM-20600-50RB#0



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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



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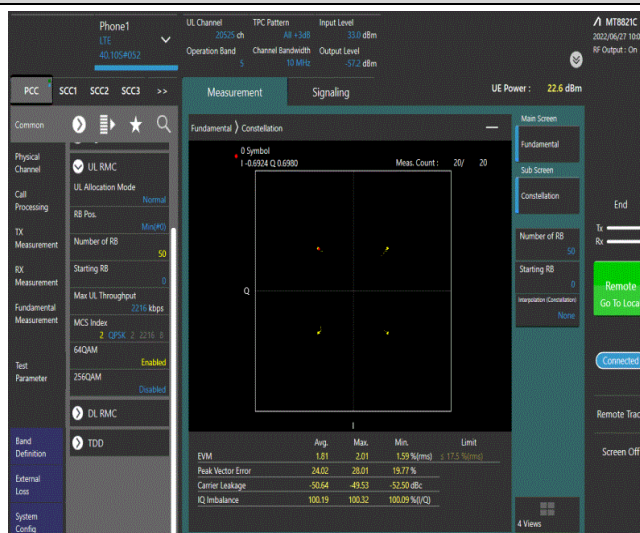
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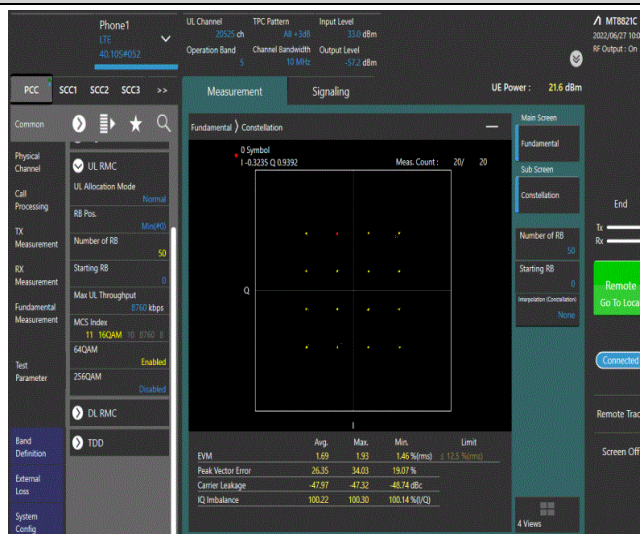
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Test Graphs

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



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



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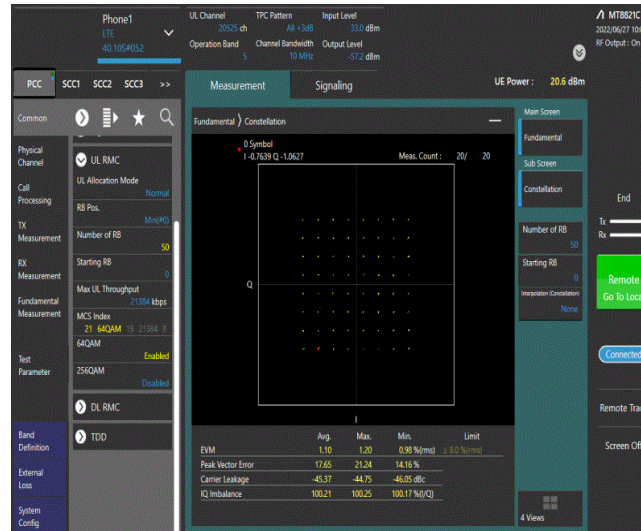
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.084	1.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.092	1.25	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.090	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.090	1.24	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.091	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.693	2.98	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.694	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.692	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.686	3.00	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.689	2.99	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.687	2.96	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.689	2.97	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.98	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.472	4.90	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.470	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.470	4.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.467	4.92	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.469	4.93	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.482	4.89	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.484	4.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.926	9.66	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.915	9.66	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.928	9.70	PASS



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Band5	10MHz	16QAM	20450	50RB#0	8.929	9.70	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.903	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.918	9.64	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.930	9.68	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.923	9.64	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.919	9.66	PASS



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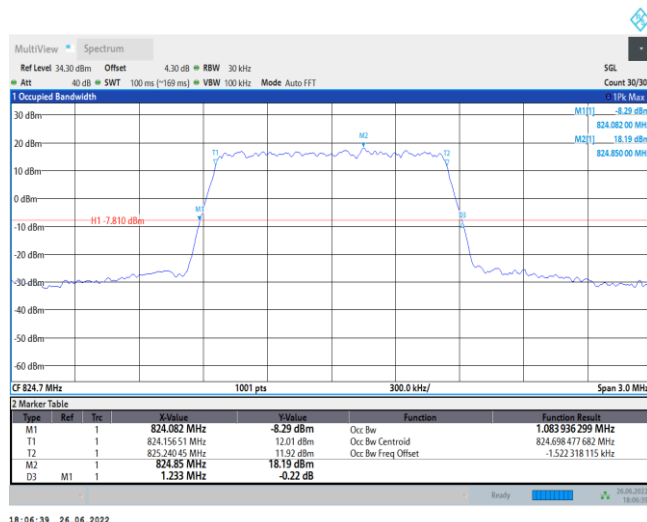
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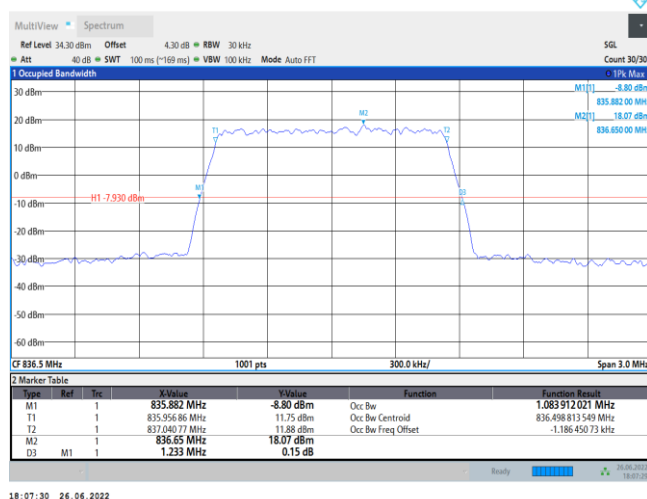
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Band5-1.4MHz-QPSK-20407-6RB#0



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



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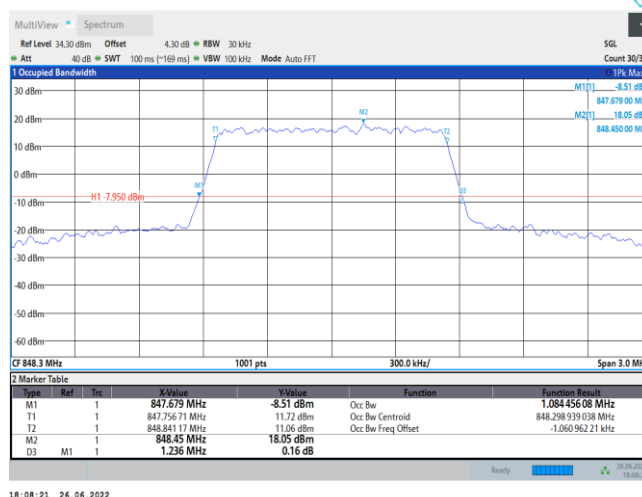
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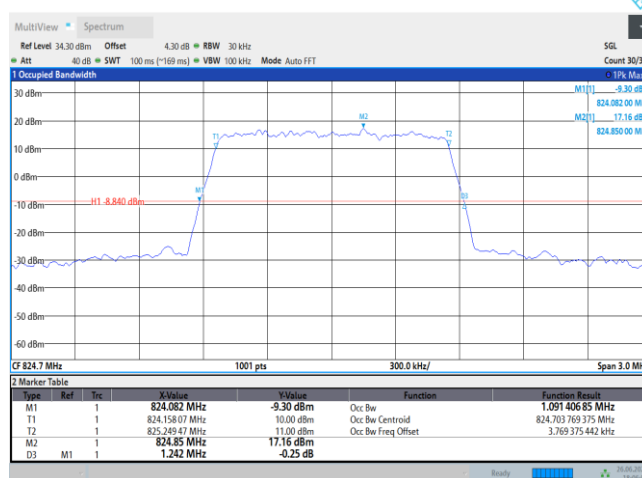
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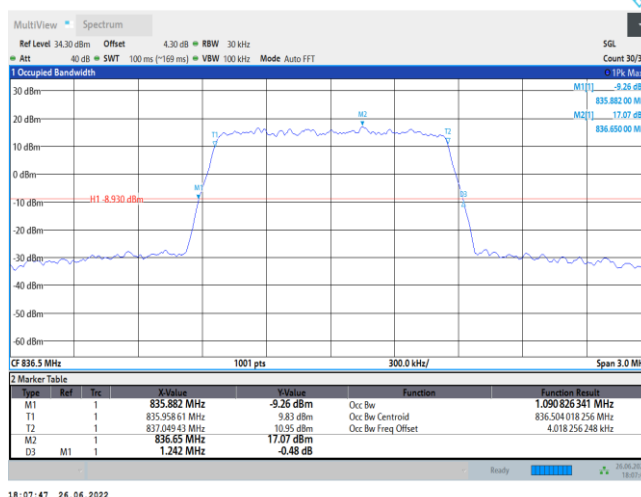
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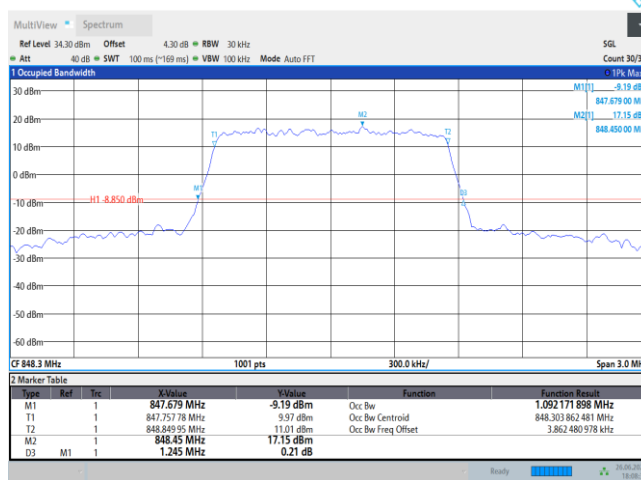
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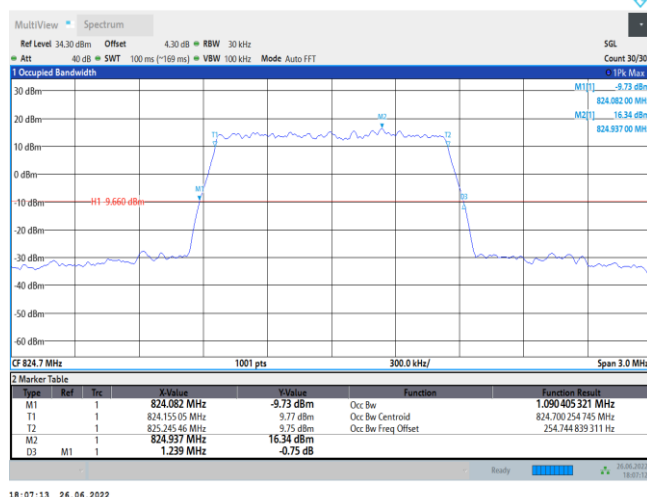
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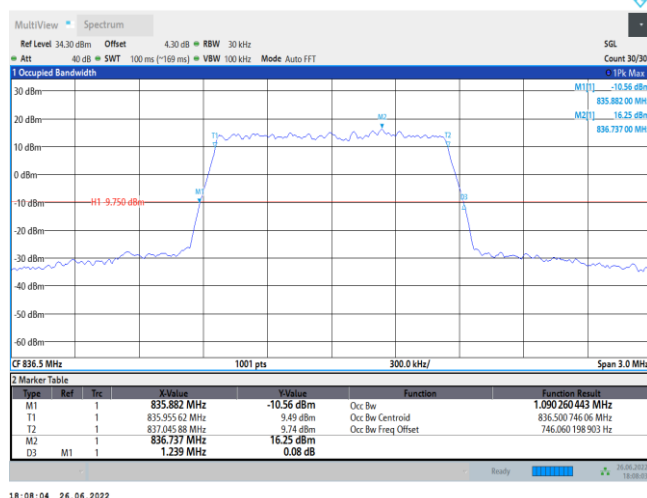
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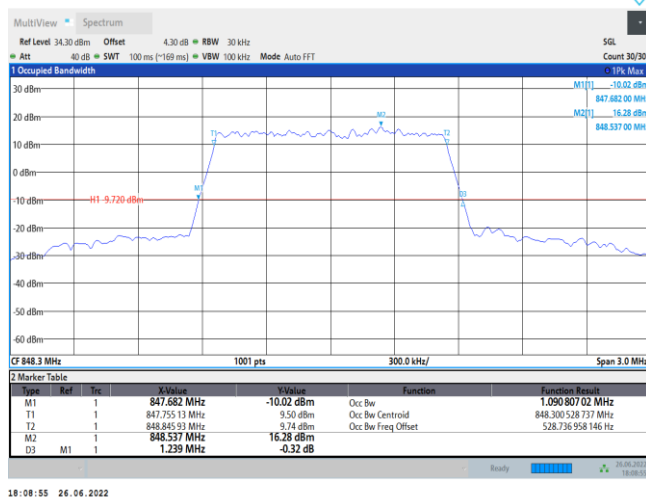
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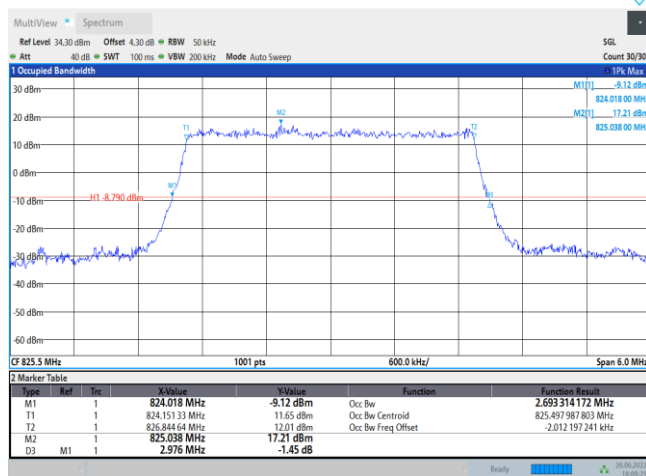
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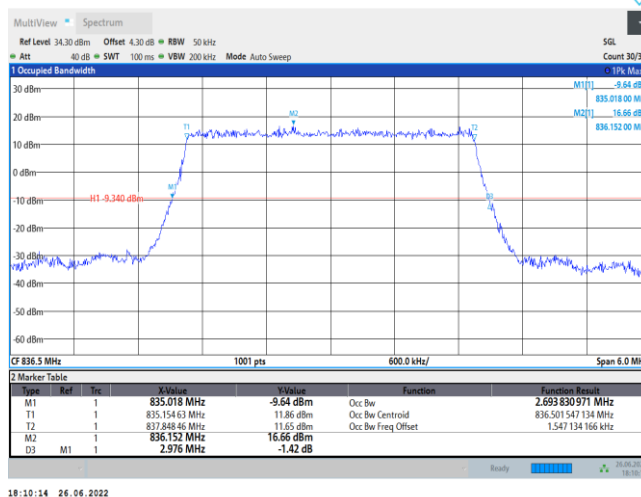
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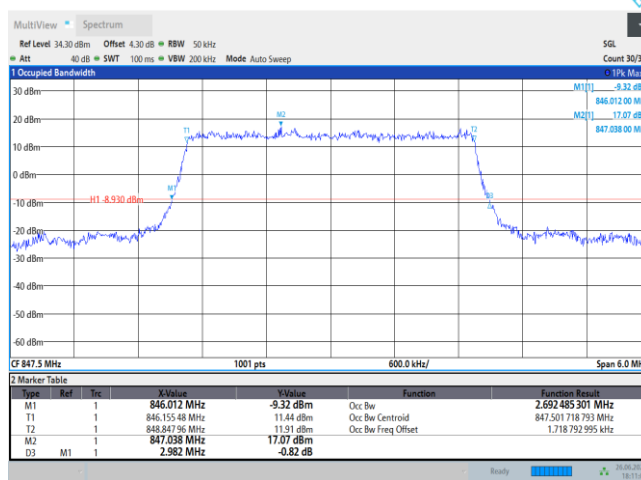
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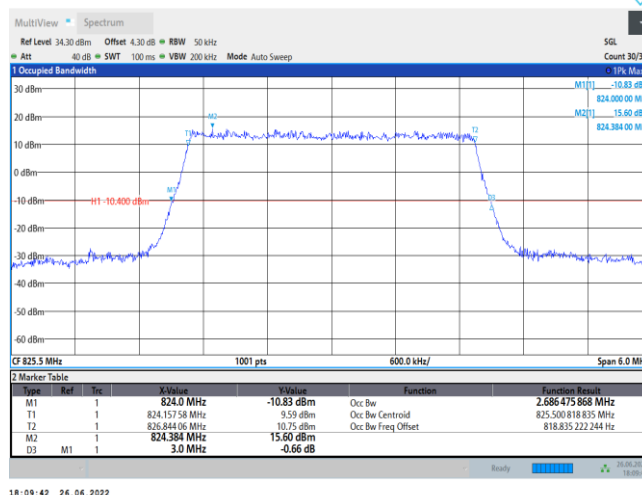
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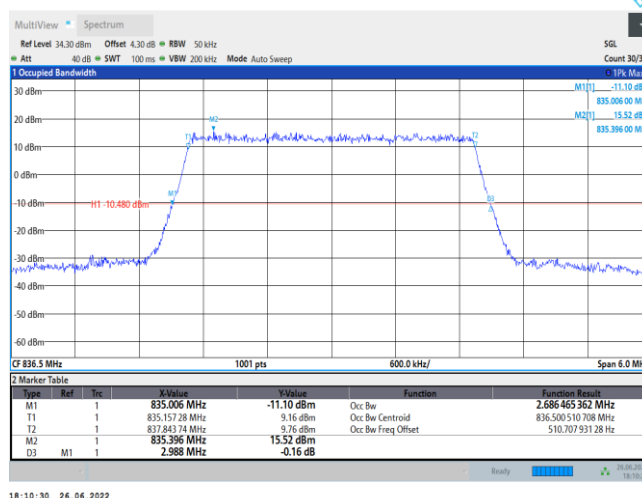
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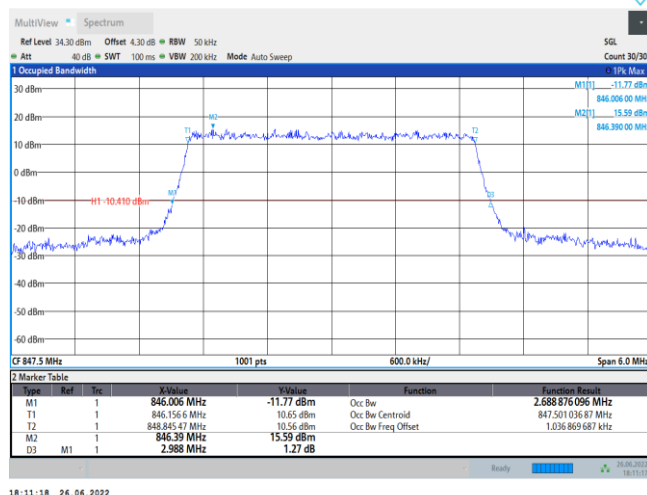
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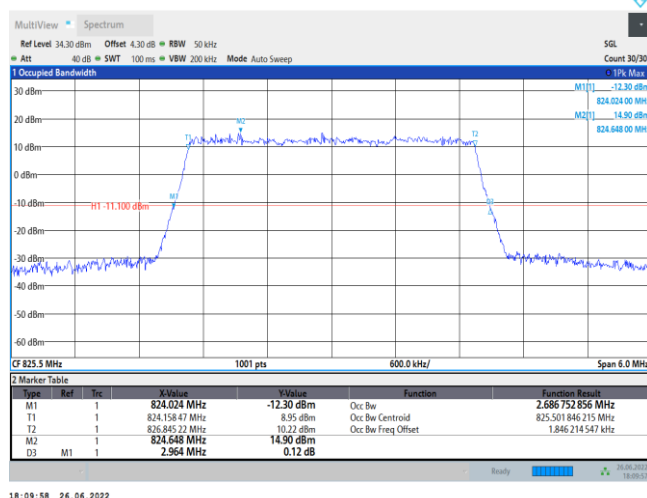
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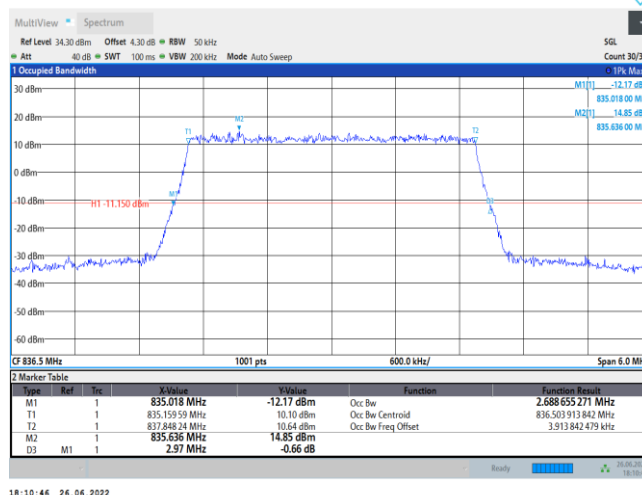
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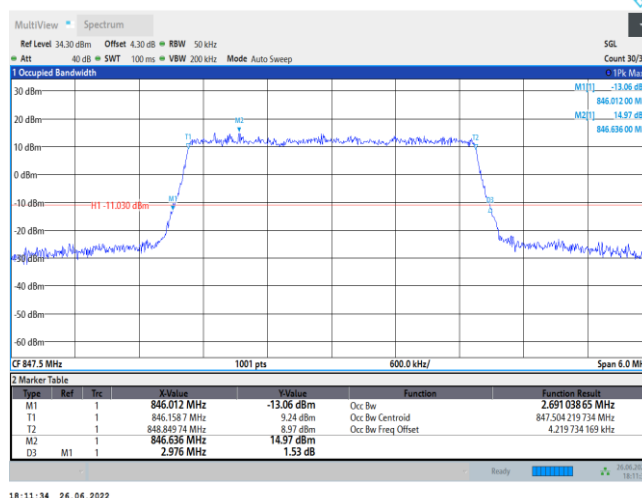
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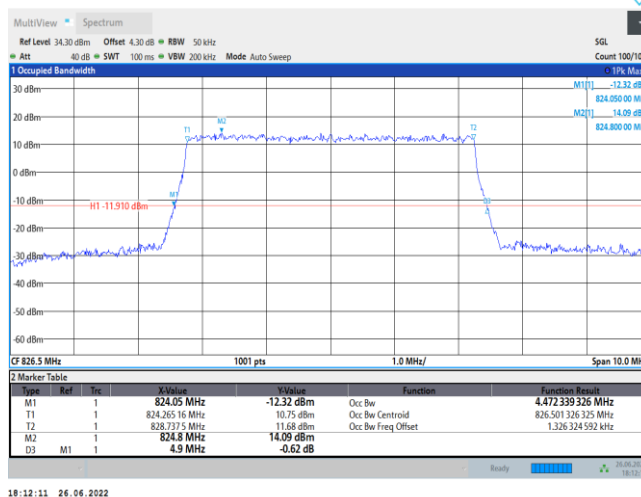
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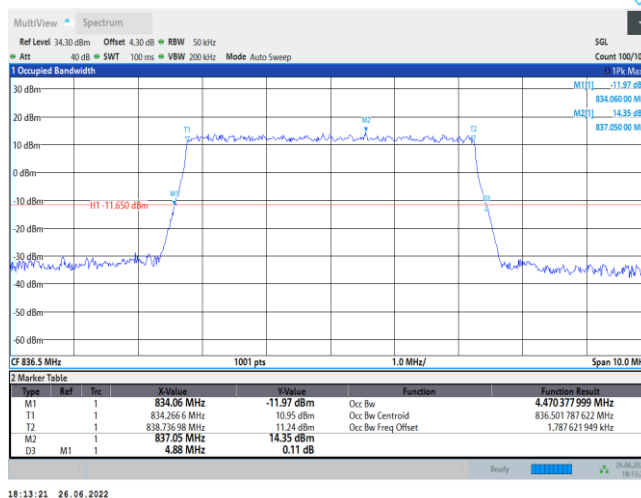
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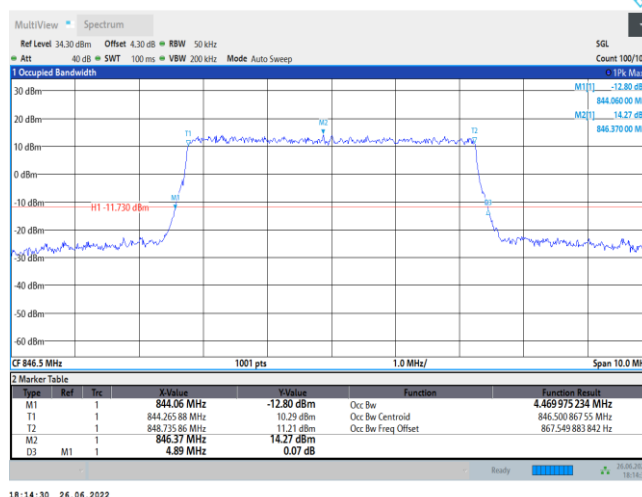
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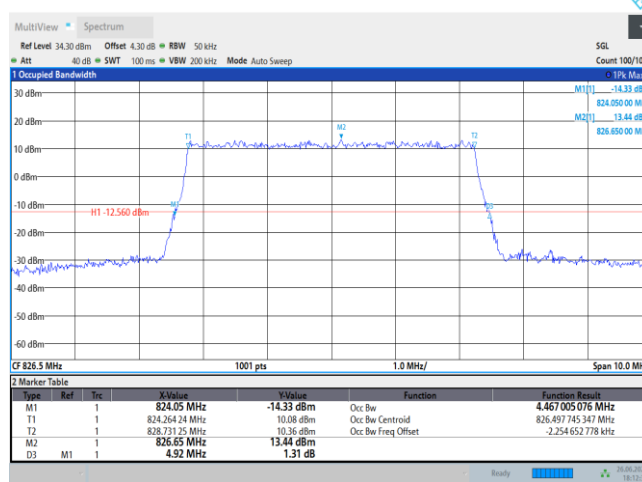
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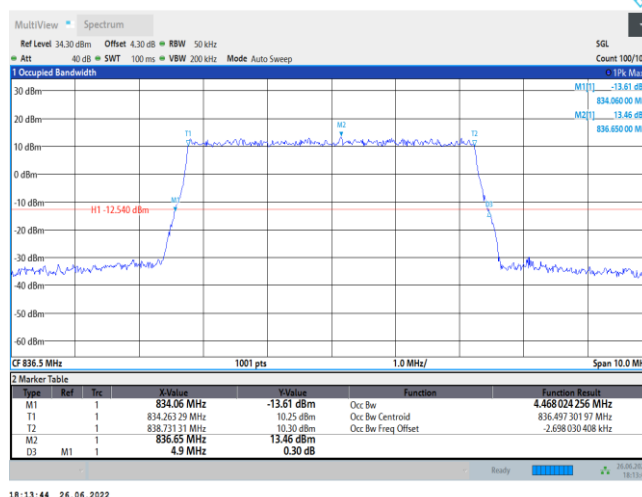
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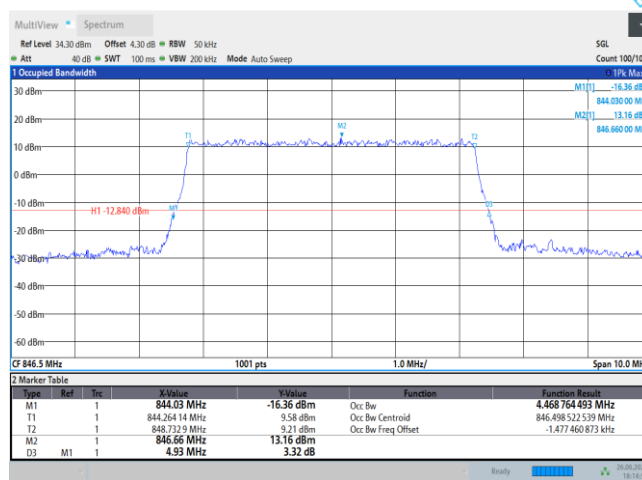
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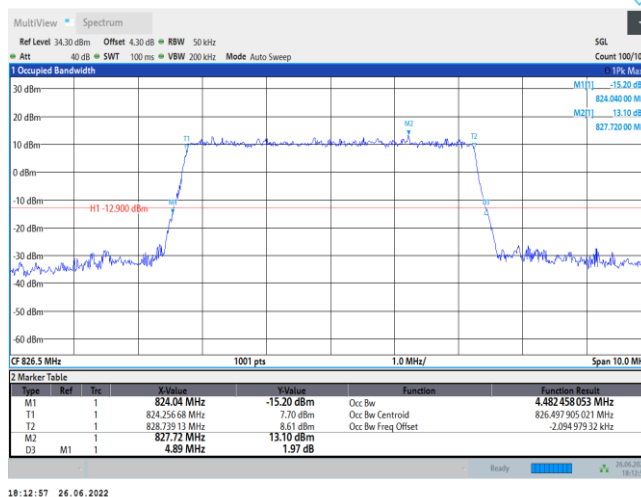
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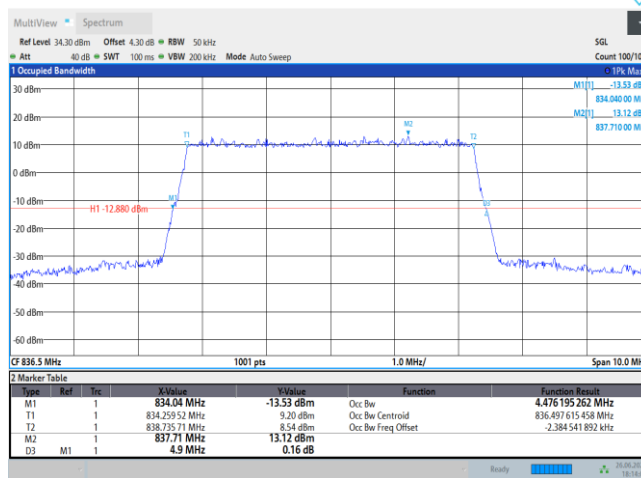
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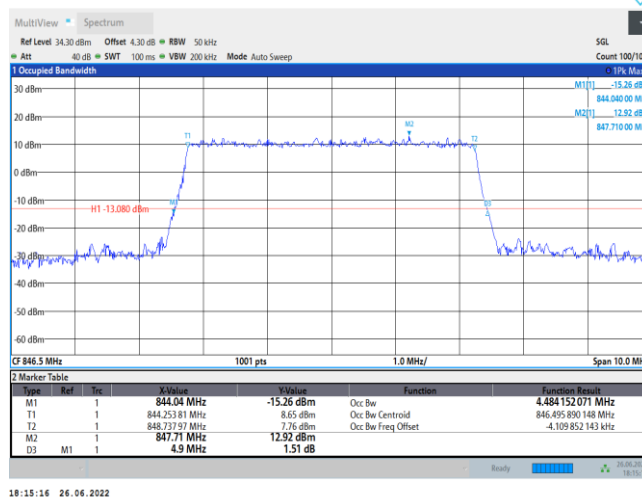
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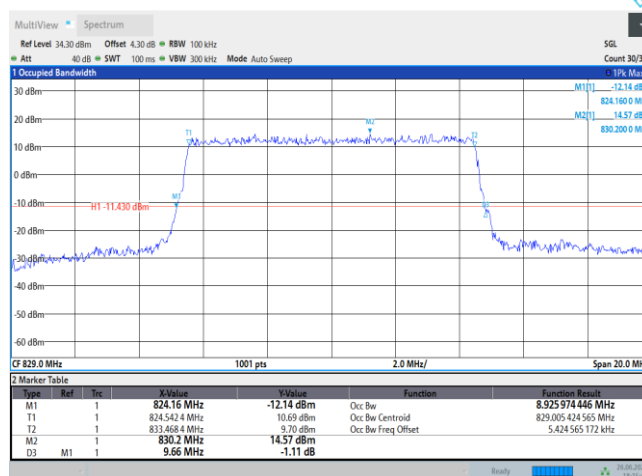
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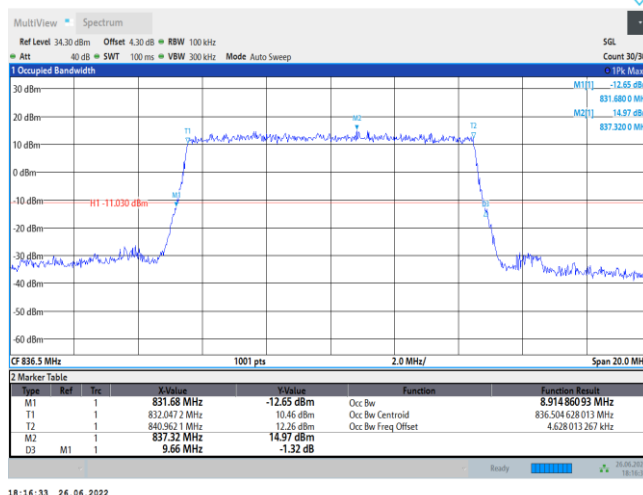
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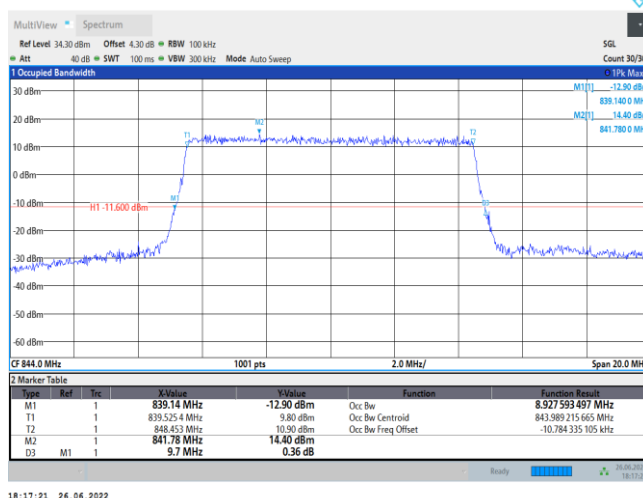
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Band5-10MHz-QPSK-20600-50RB#0



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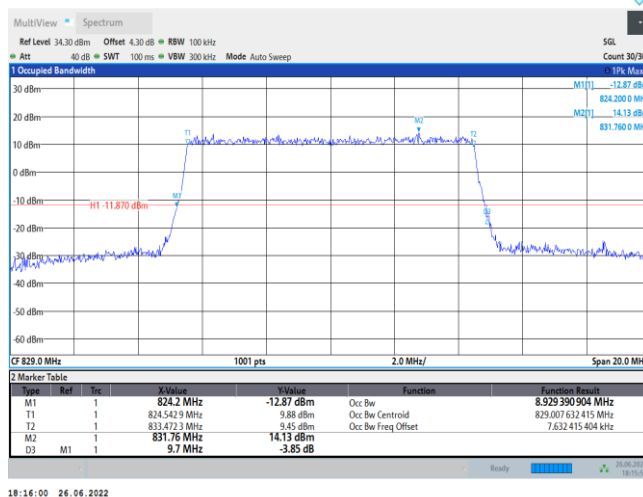
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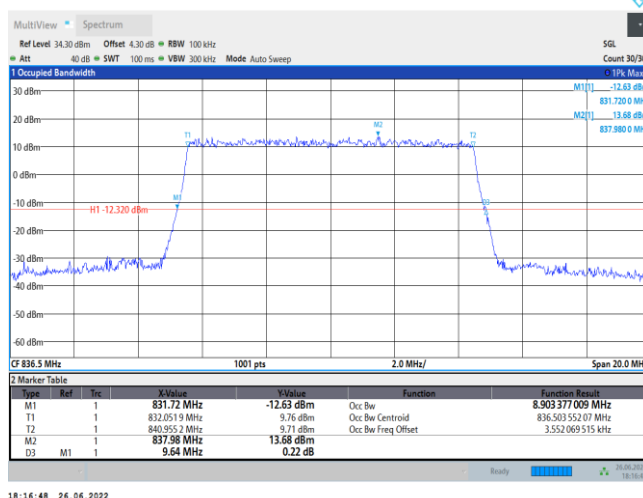
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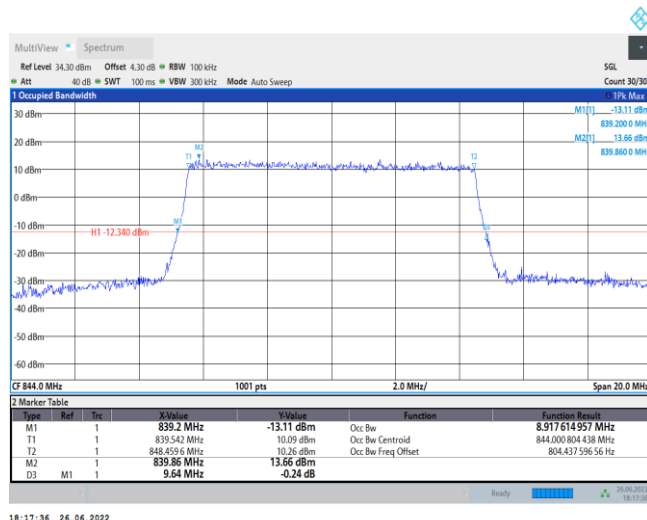
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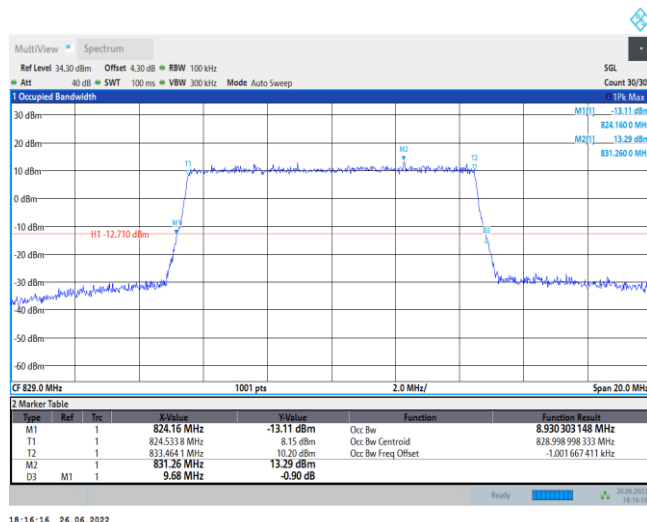
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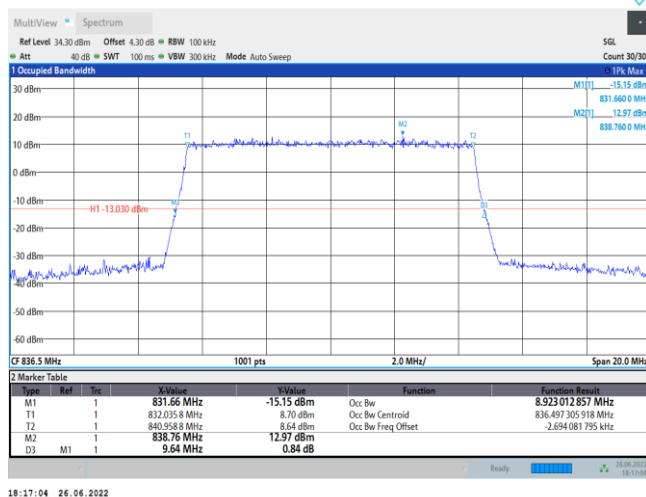
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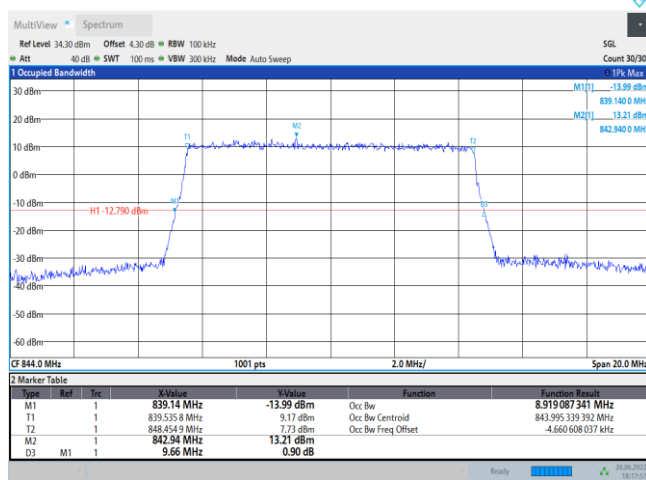
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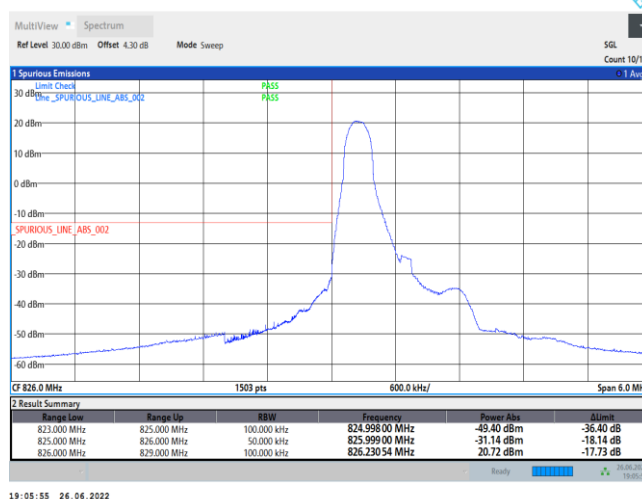
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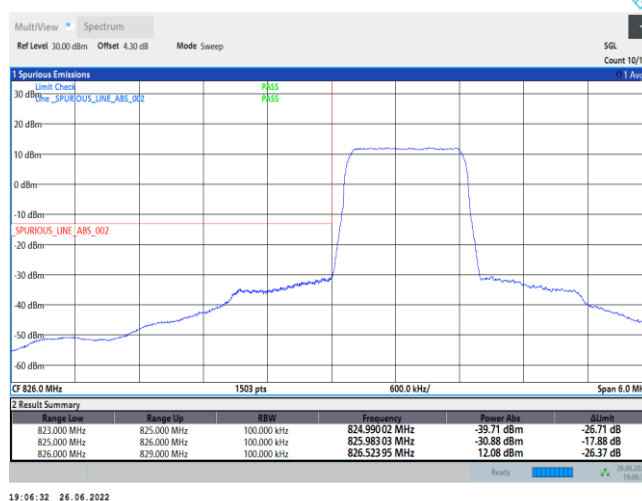
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Test Graphs

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



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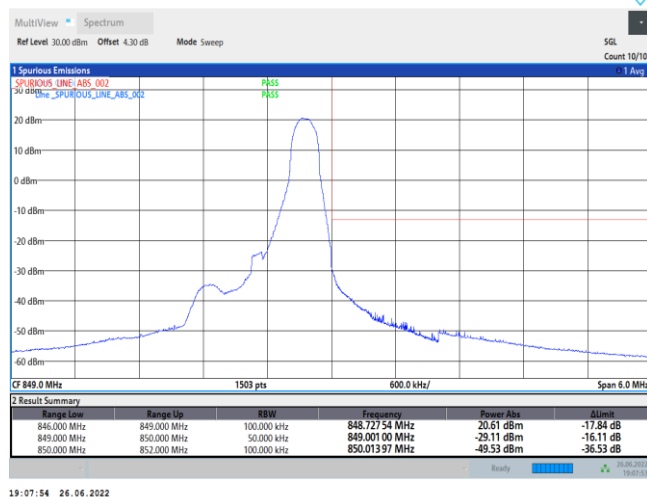
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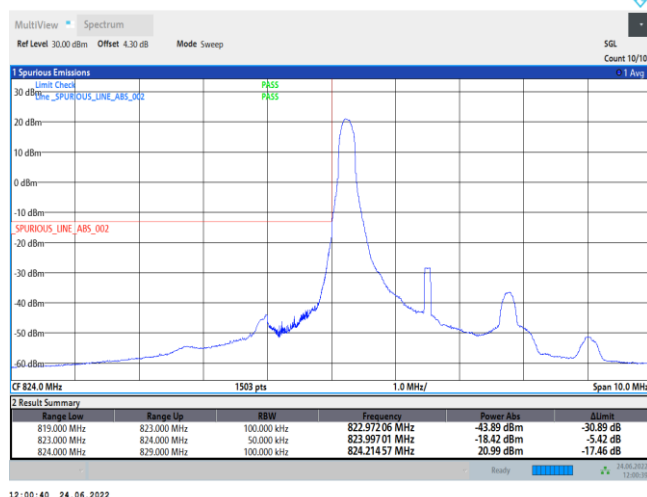
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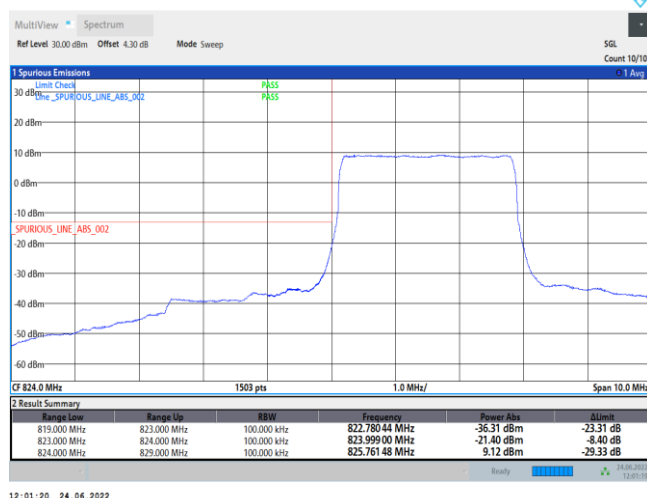
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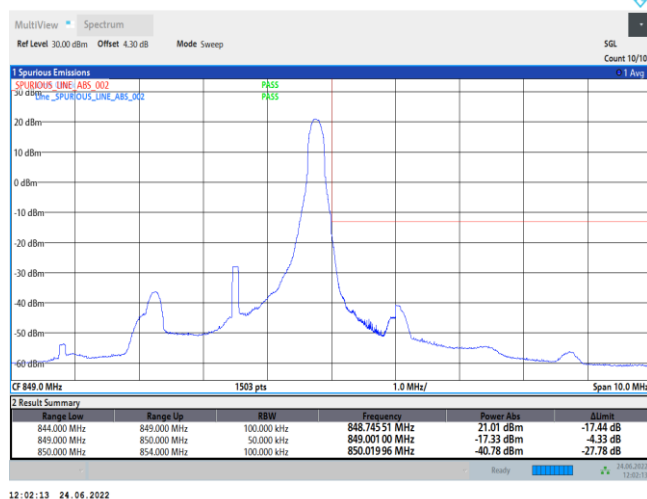
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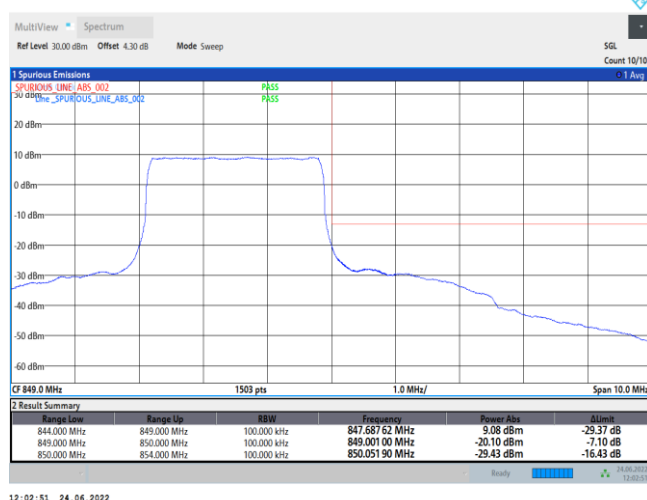
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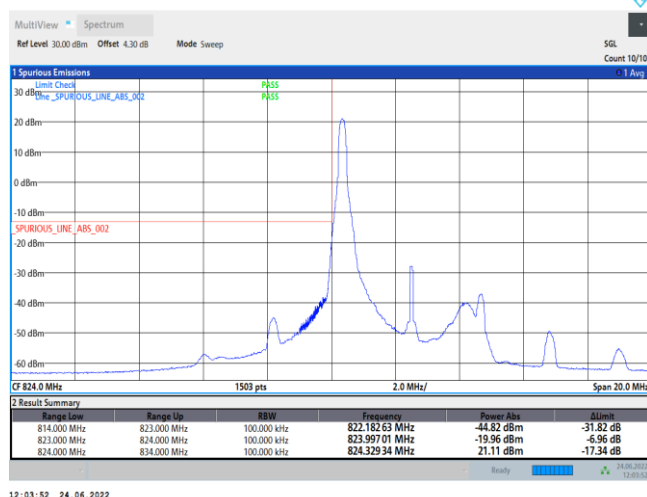
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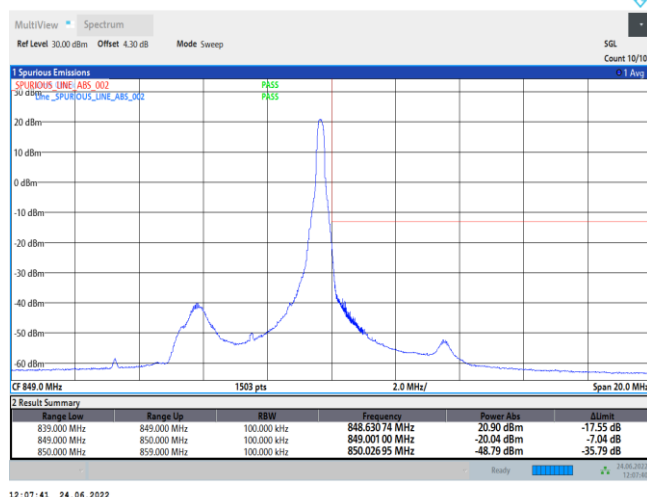
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Band5-5MHz-QPSK-20625-1RB#24



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



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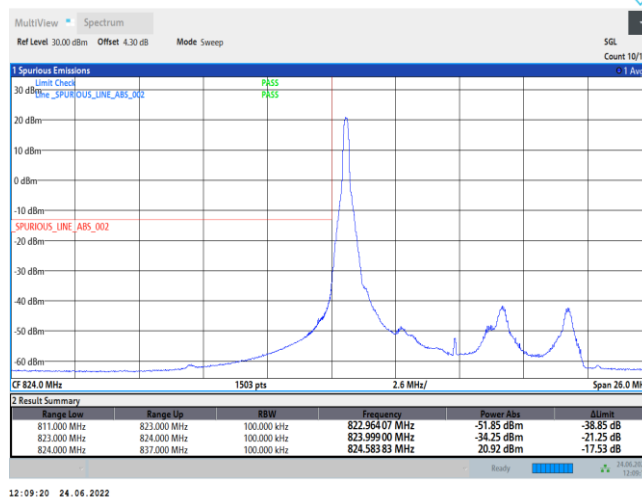
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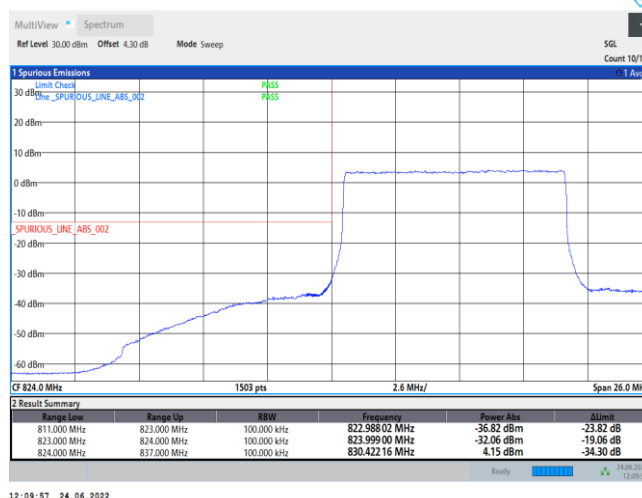
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Band5-10MHz-QPSK-20450-1RB#0



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



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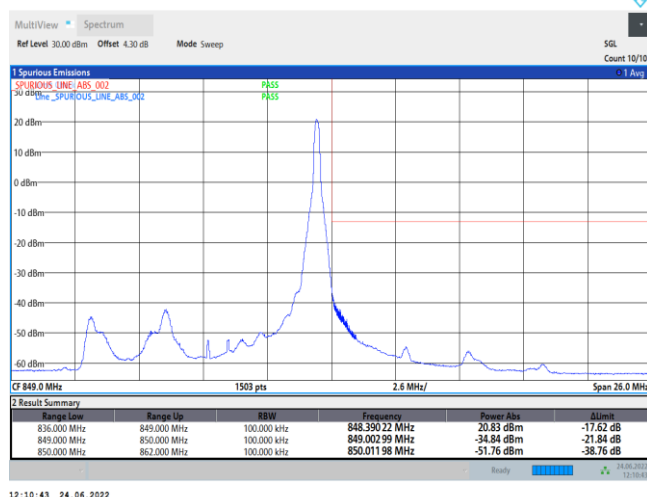
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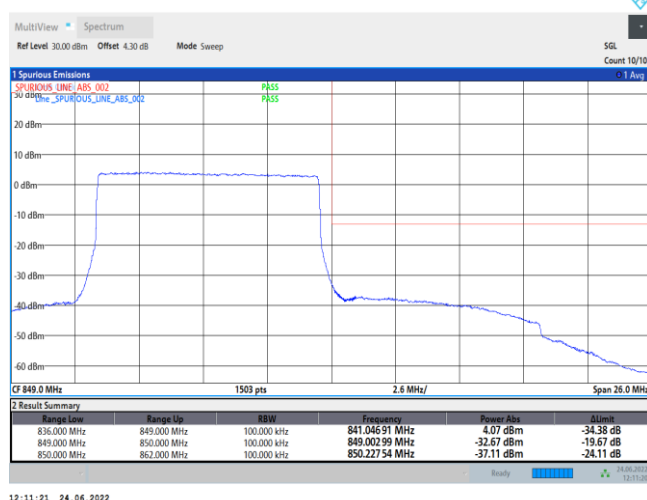
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Band5-10MHz-QPSK-20600-1RB#49



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



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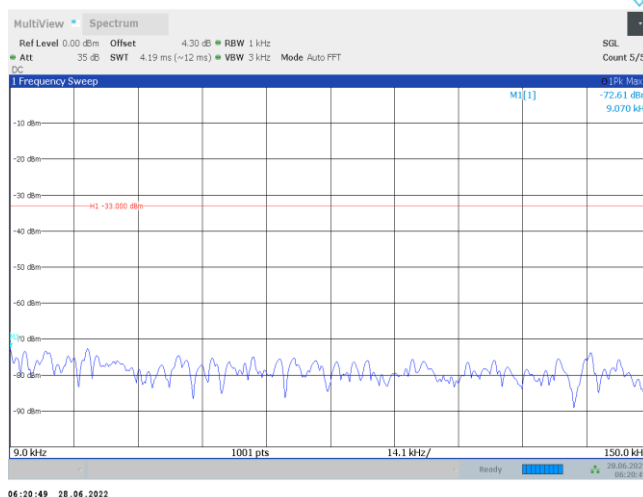
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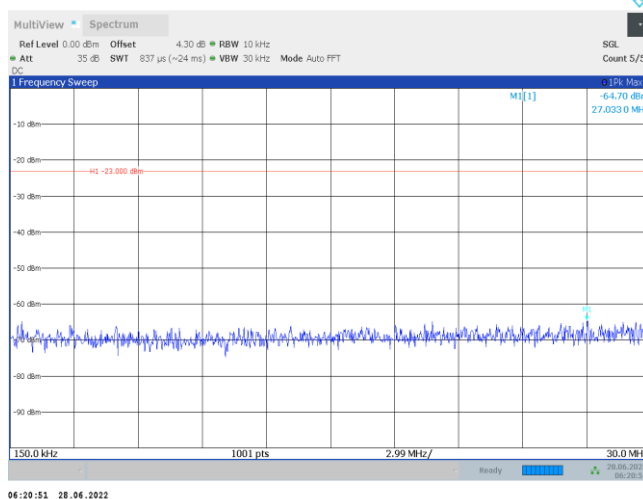
Conducted Spurious Emission

Test Graphs

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



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



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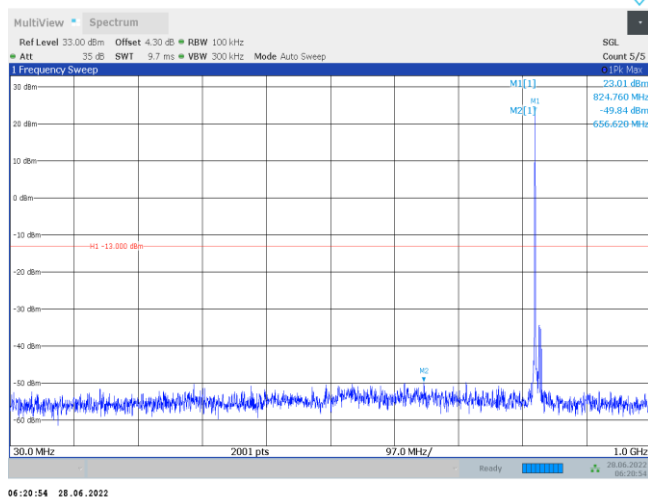
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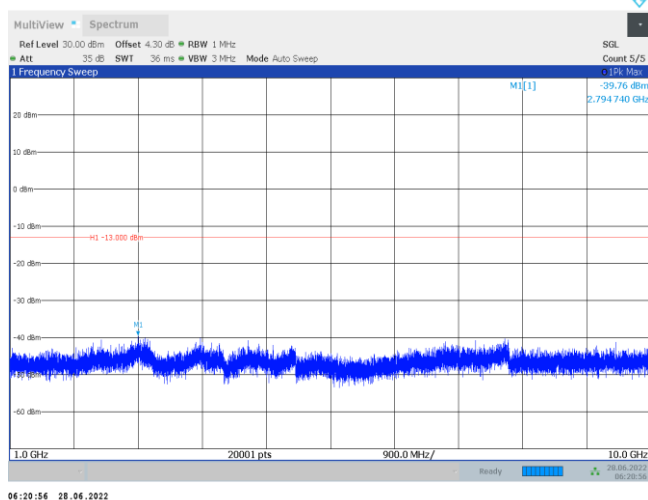
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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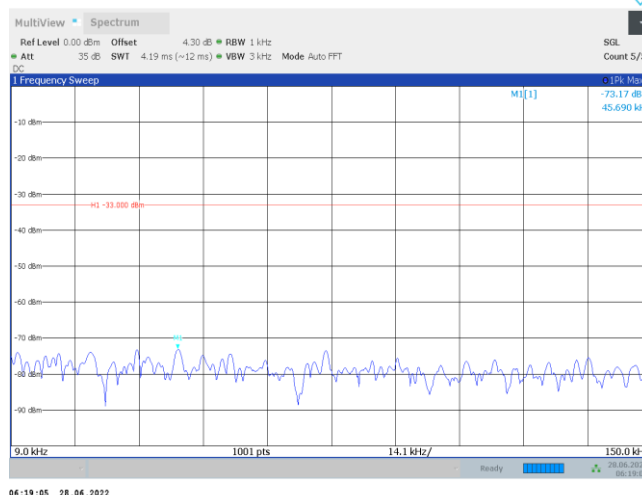
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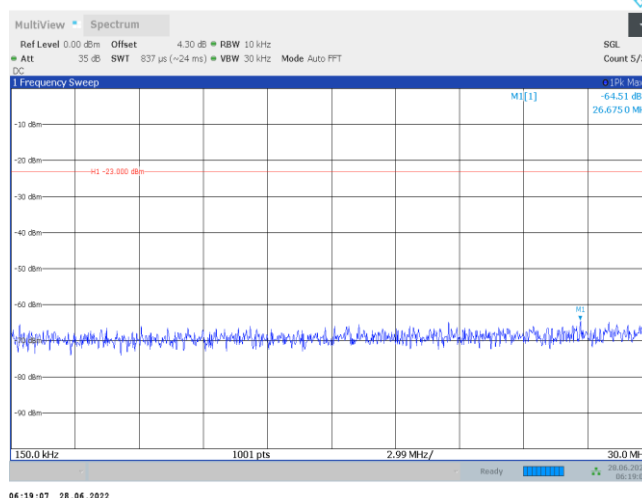
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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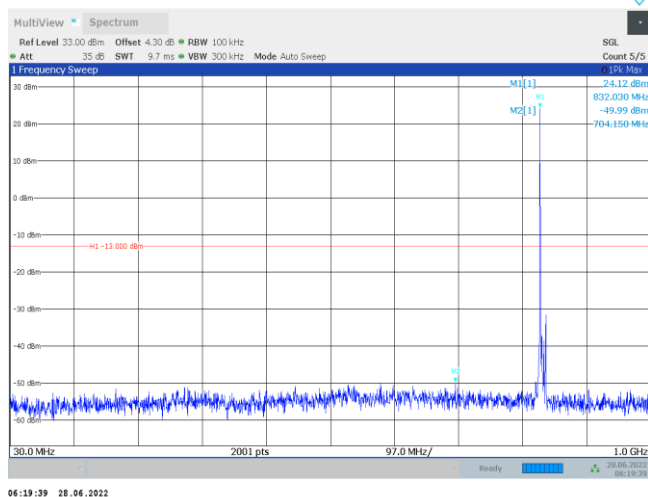
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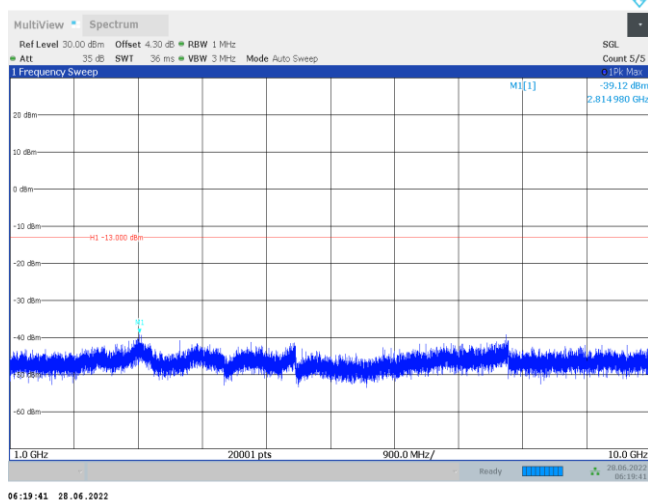
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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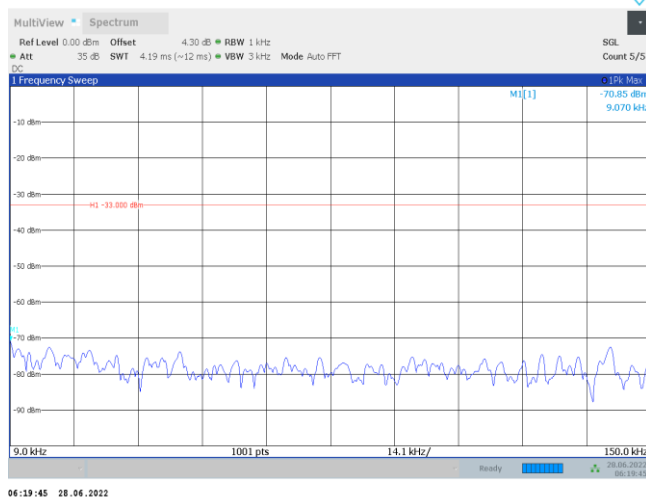
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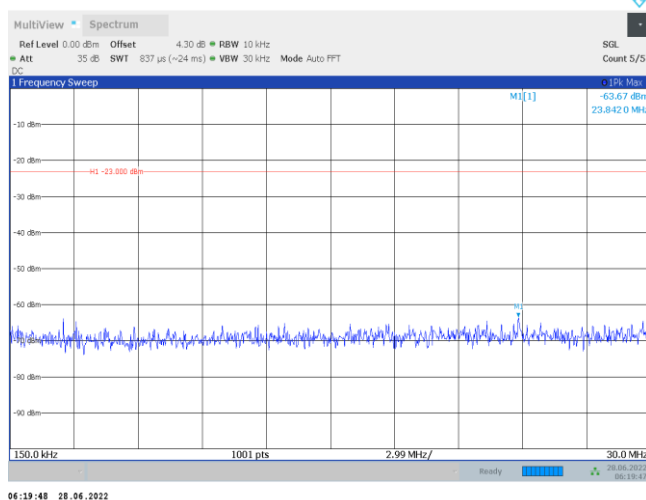
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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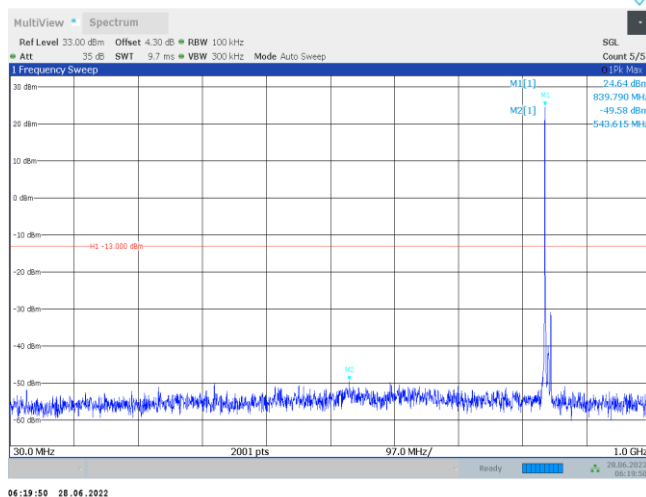
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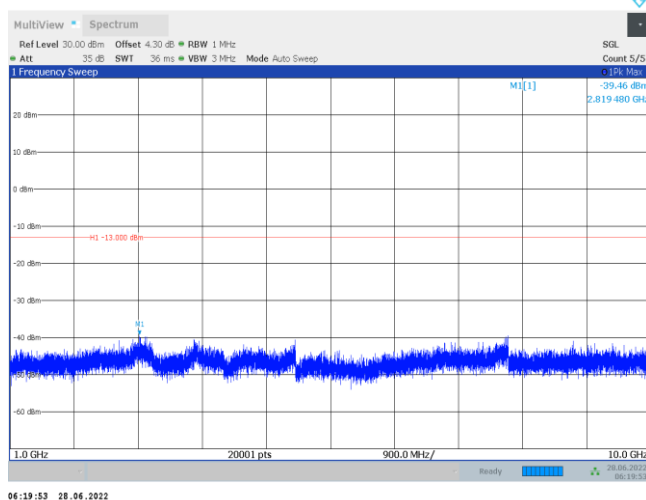
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

For Sample #1

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	1649.1429	62.08	-48.22	25.37	-56.03	-13.00	43.03	145	354	Horizontal
2	2473.7143	80.34	-47.32	27.68	-34.55	-13.00	21.55	234	123	Horizontal
3	3298.2857	57.97	-46.67	29.56	-54.41	-13.00	41.41	175	350	Horizontal
4	4122.8571	54.96	-45.91	30.98	-55.23	-13.00	42.23	276	216	Horizontal
5	4947.5400	50.14	-45.69	32.73	-58.08	-13.00	45.08	195	97	Horizontal
6	5772.1300	50.41	-44.64	33.65	-55.84	-13.00	42.84	144	137	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	1649.1429	62.28	-48.22	25.37	-55.83	-13.00	42.83	122	184	Vertical
2	2473.7143	80.79	-47.32	27.68	-34.10	-13.00	21.10	175	151	Vertical
3	3298.3600	56.35	-46.68	29.56	-56.03	-13.00	43.03	186	171	Vertical
4	4122.9500	52.57	-45.91	30.99	-57.62	-13.00	44.62	243	191	Vertical
5	4947.5400	48.91	-45.69	32.73	-59.31	-13.00	46.31	249	71	Vertical
6	5772.1300	49.15	-44.64	33.65	-57.10	-13.00	44.10	194	0	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	65.60	-48.20	25.38	-52.49	-13.00	39.49	164	188	Horizontal
2	2496.2700	84.02	-47.28	27.76	-30.76	-13.00	17.76	173	136	Horizontal
3	3328.3600	55.46	-46.64	29.52	-56.92	-13.00	43.92	189	308	Horizontal
4	4160.4500	53.61	-45.94	31.04	-56.55	-13.00	43.55	249	209	Horizontal
5	4992.5400	49.22	-45.79	32.86	-58.97	-13.00	45.97	243	23	Horizontal
6	5824.6300	49.18	-44.74	33.80	-57.02	-13.00	44.02	188	360	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	62.30	-48.20	25.38	-55.79	-13.00	42.79	164	185	Vertical
2	2496.2700	82.16	-47.28	27.76	-32.62	-13.00	19.62	134	125	Vertical
3	3328.3600	54.52	-46.64	29.52	-57.86	-13.00	44.86	185	179	Vertical
4	4160.4500	54.30	-45.94	31.04	-55.86	-13.00	42.86	276	185	Vertical
5	4992.5400	48.51	-45.79	32.86	-59.68	-13.00	46.68	199	6	Vertical
6	5824.6300	48.52	-44.74	33.80	-57.68	-13.00	44.68	247	192	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	62.89	-48.18	25.38	-55.17	-13.00	42.17	215	148	Horizontal
2	2518.7700	80.45	-47.21	27.83	-34.18	-13.00	21.18	230	134	Horizontal
3	3358.3600	55.95	-46.60	29.48	-56.43	-13.00	43.43	145	121	Horizontal
4	4197.9500	55.45	-45.96	31.10	-54.67	-13.00	41.67	195	202	Horizontal
5	5037.5400	48.75	-45.65	32.90	-59.26	-13.00	46.26	166	202	Horizontal
6	5887.1300	49.06	-44.93	33.92	-57.21	-13.00	44.21	144	261	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	63.71	-48.18	25.38	-54.35	-13.00	41.35	254	184	Vertical
2	2518.7700	79.67	-47.21	27.83	-34.96	-13.00	21.96	198	245	Vertical
3	3358.3600	58.29	-46.60	29.48	-54.09	-13.00	41.09	168	171	Vertical
4	4197.9500	53.01	-45.96	31.10	-57.11	-13.00	44.11	148	178	Vertical
5	5037.5400	48.55	-45.65	32.90	-59.46	-13.00	46.46	173	317	Vertical
6	5887.1300	49.57	-44.93	33.92	-56.70	-13.00	43.70	266	284	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV -95.26



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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	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.20	0.001435	±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	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.70	-0.003228	±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	20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.50	-0.000598	±2.5	PASS

The End



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