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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	23.52	23.63	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.67	23.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.54	23.65	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.62	22.73	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.76	23.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.84	23.95	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.68	23.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.80	22.91	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.65	23.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.72	23.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.66	23.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.85	22.96	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.83	22.94	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.00	23.11	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.81	22.92	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.73	21.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.88	22.99	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.96	23.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.92	23.03	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.85	21.96	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.76	22.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.89	23.00	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.73	22.84	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.77	21.88	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.70	23.81	38.45	PASS



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Band5	3MHz	QPSK	20415	1RB#8	23.64	23.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.61	23.72	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.70	22.81	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.81	23.92	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.77	23.88	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.74	23.85	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.91	23.02	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.74	23.85	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.69	23.80	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.67	23.78	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.83	22.94	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.90	23.01	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.95	23.06	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.92	23.03	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.69	21.80	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.06	23.17	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.00	23.11	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.93	23.04	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.93	22.04	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.94	23.05	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.81	22.92	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.87	22.98	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.87	21.98	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.68	23.79	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.62	23.73	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.73	23.84	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.81	22.92	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.80	23.91	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.81	23.92	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.76	23.87	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.91	23.02	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.76	23.87	38.45	PASS



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Band5	5MHz	QPSK	20625	1RB#24	23.73	23.84	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.84	22.95	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.91	23.02	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.91	23.02	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.01	23.12	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.79	21.90	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.94	23.05	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.04	23.15	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.03	23.14	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.89	22.00	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.00	23.11	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.95	23.06	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.80	22.91	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.81	21.92	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.68	23.79	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.78	23.89	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.78	23.89	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.80	22.91	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.72	23.83	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.81	23.92	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.72	23.83	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.90	23.01	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.81	23.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.78	23.89	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.69	23.80	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.87	22.98	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.01	23.12	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.95	23.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.01	23.12	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.82	21.93	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.06	23.17	38.45	PASS



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Band5	10MHz	16QAM	20525	1RB#24	22.98	23.09	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.93	23.04	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.87	21.98	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.11	23.22	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.99	23.10	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.89	23.00	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.88	21.99	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	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.16	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.14	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.88	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.92	13	PASS



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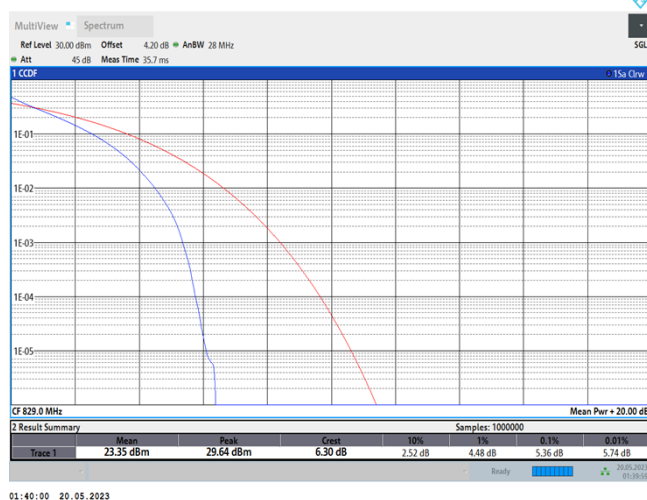
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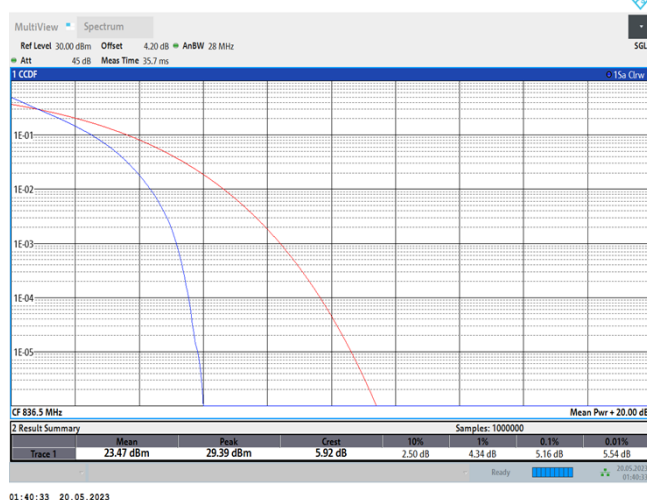
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Test Graphs

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



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



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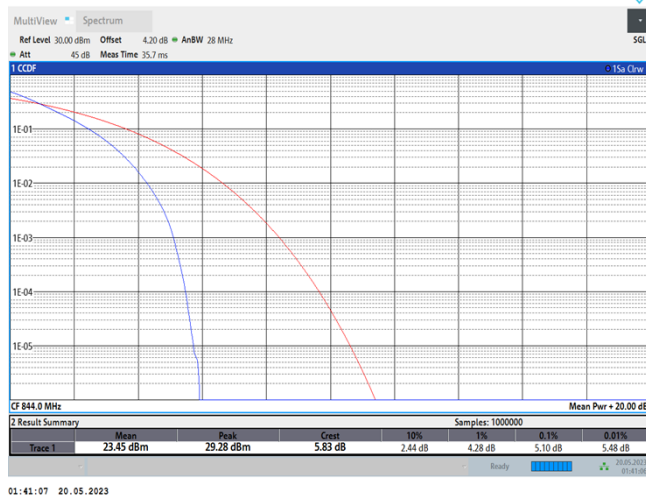
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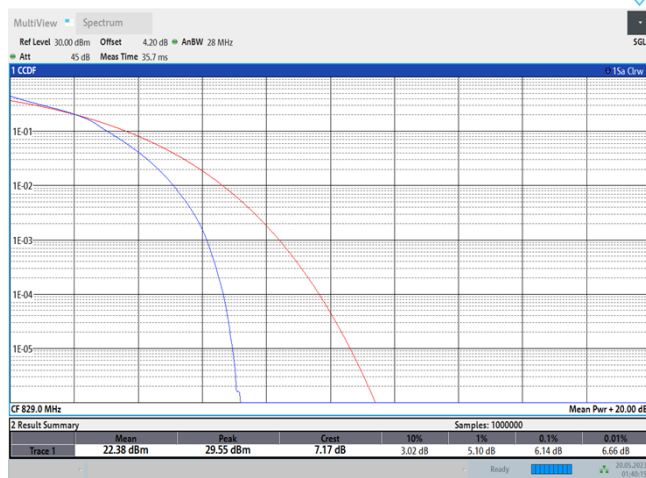
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Band5-10MHz-QPSK-20600-50RB#0



01:41:07 20.05.2023

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



01:40:16 20.05.2023



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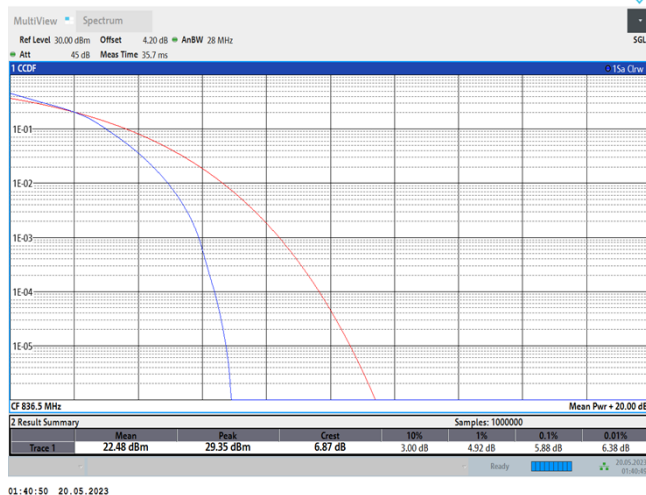
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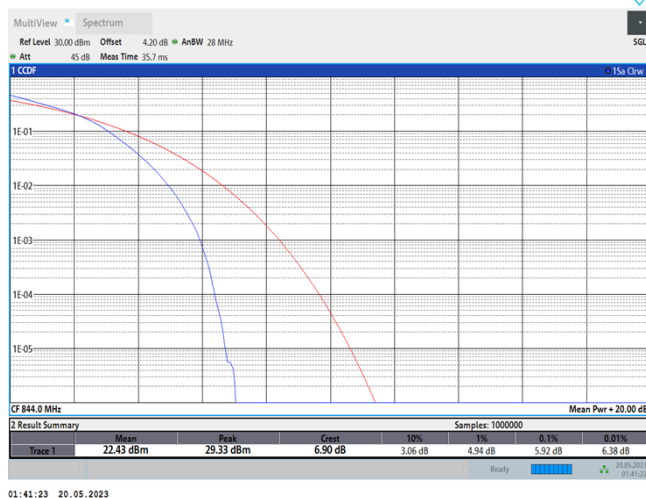
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Band5-10MHz-16QAM-20525-50RB#0



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



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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	1.085	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.092	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.095	1.26	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	2.98	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	2.99	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	3.00	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.690	2.99	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.689	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.687	2.98	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.472	4.90	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.474	4.87	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.469	4.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.471	4.91	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.91	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.467	4.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.930	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.935	9.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.928	9.62	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.920	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.912	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.909	9.64	PASS



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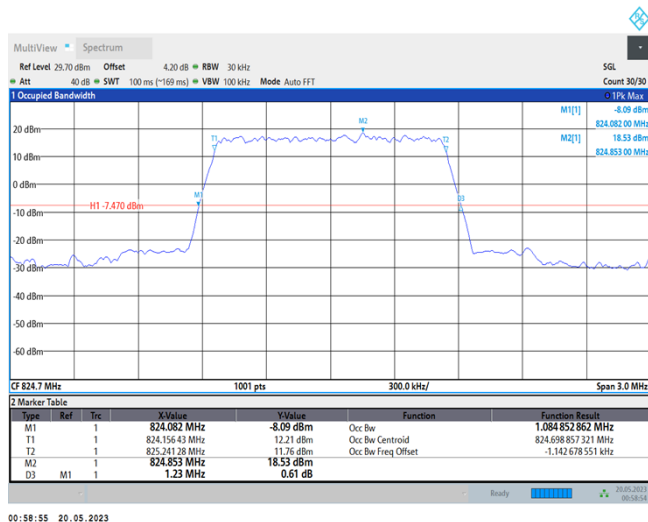
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Test Graphs

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



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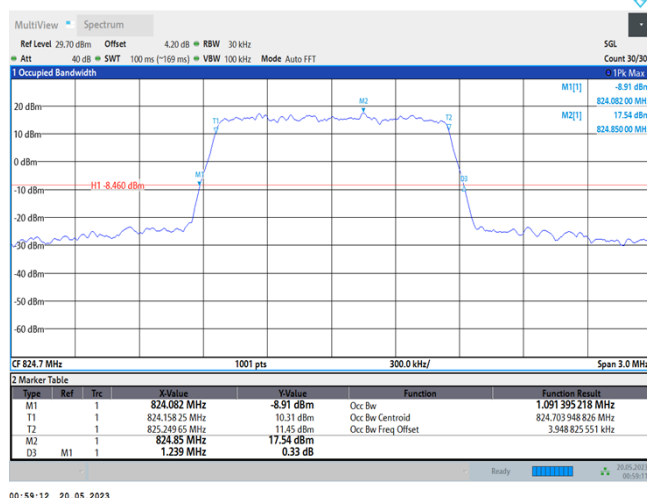
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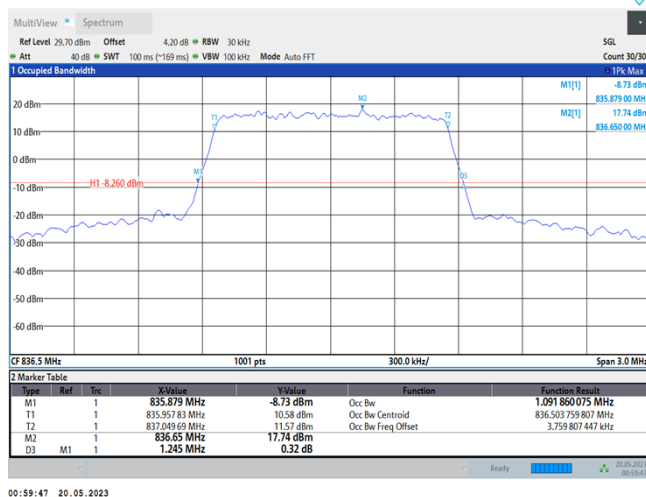


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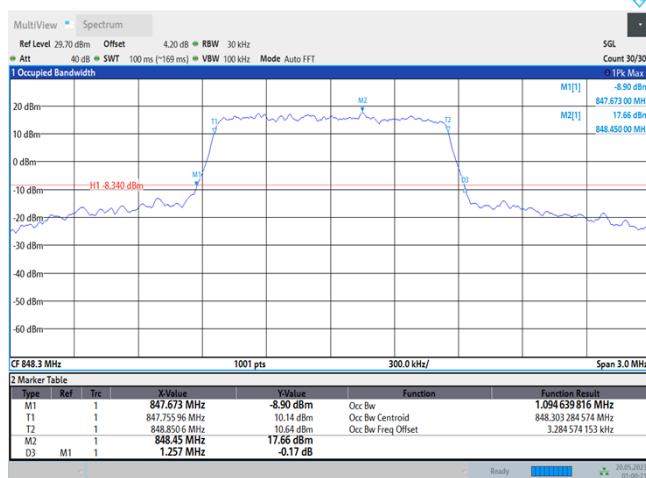
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Band5-1.4MHz-16QAM-20643-6RB#0



01:00:22 20.05.2023



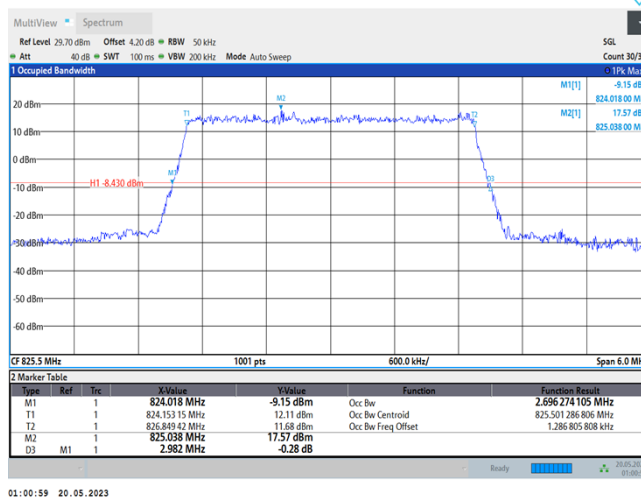
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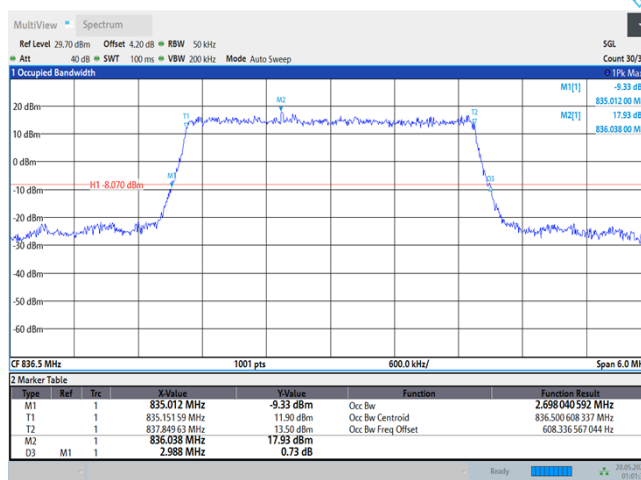
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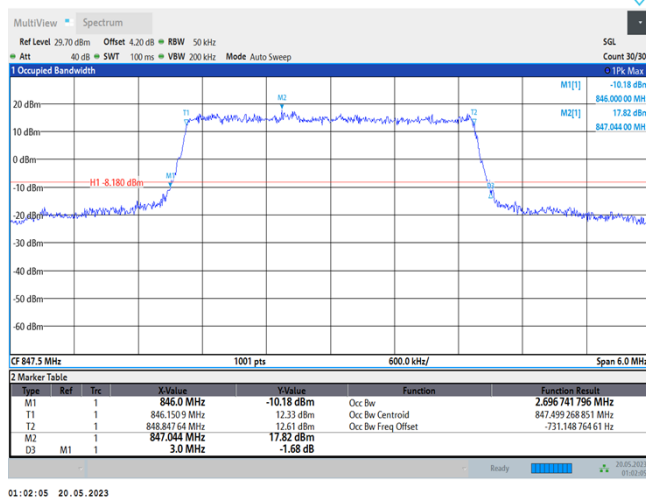
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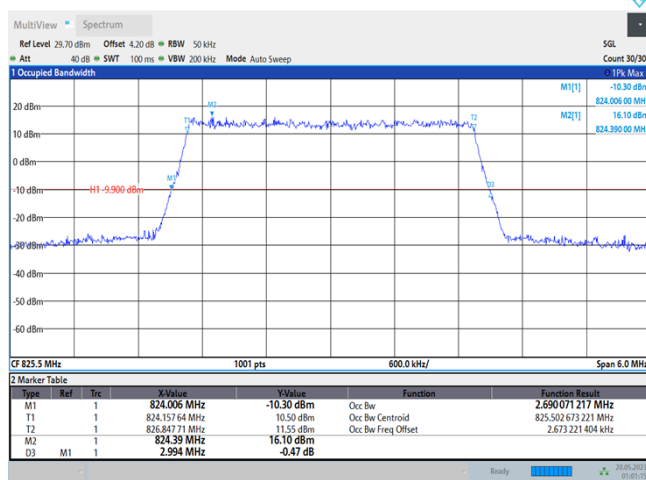
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Band5-3MHz-QPSK-20635-15RB#0



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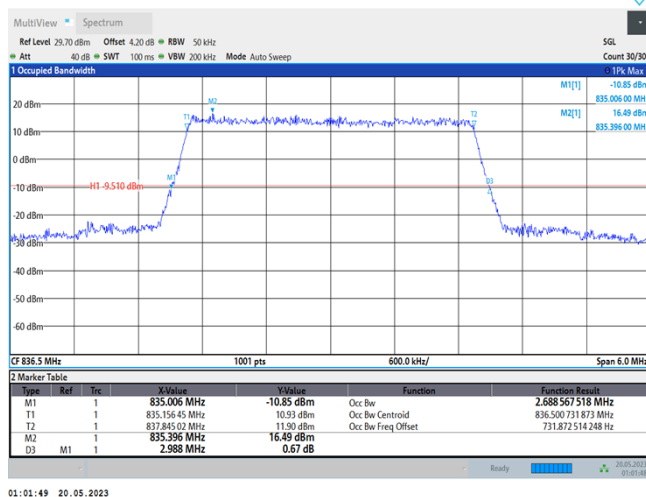
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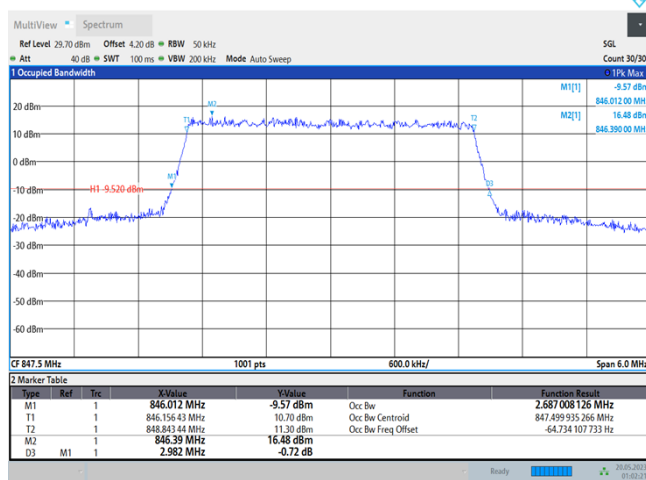
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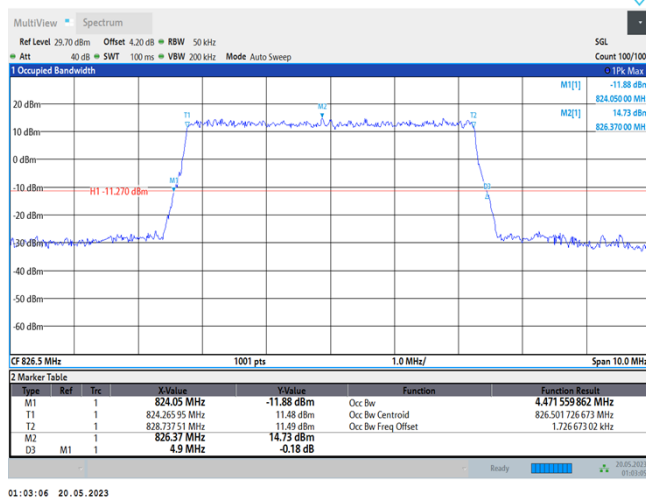
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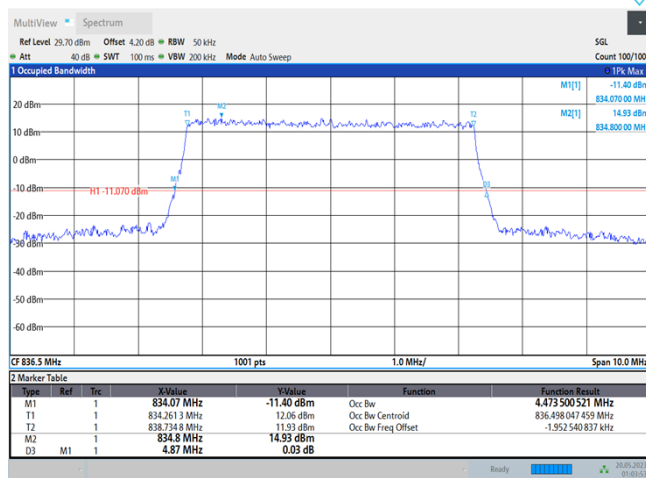
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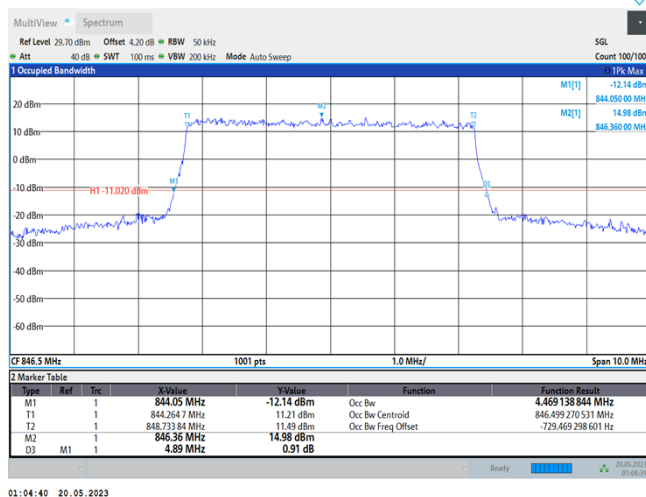
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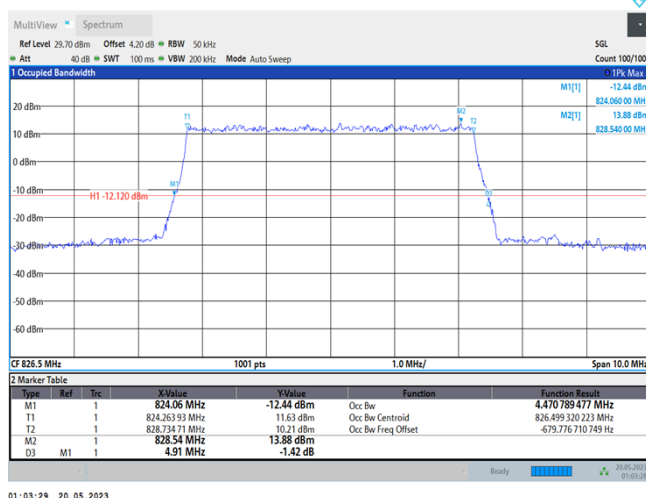
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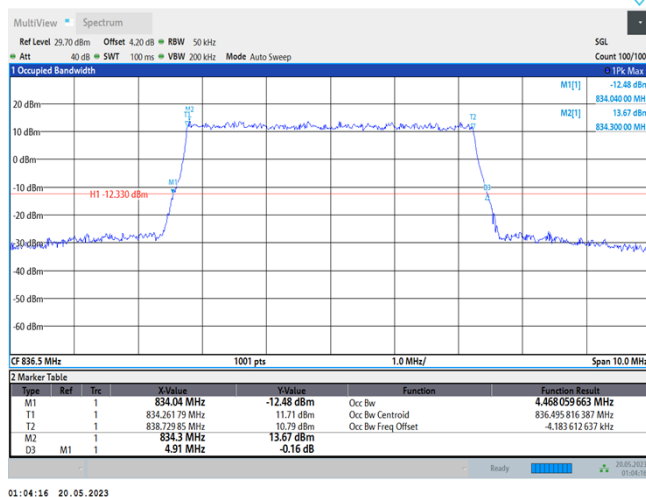
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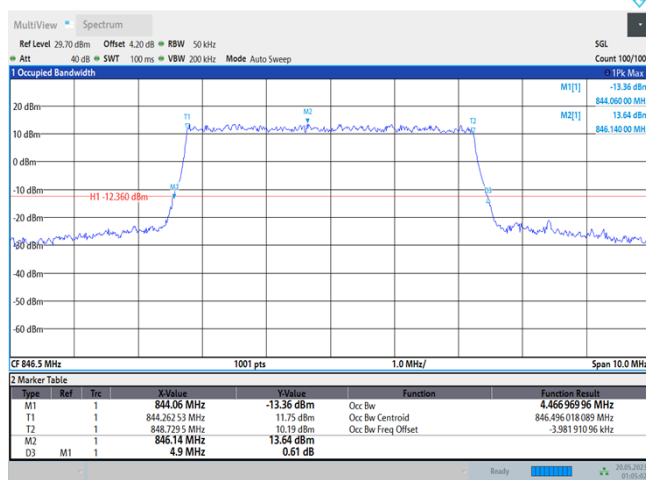
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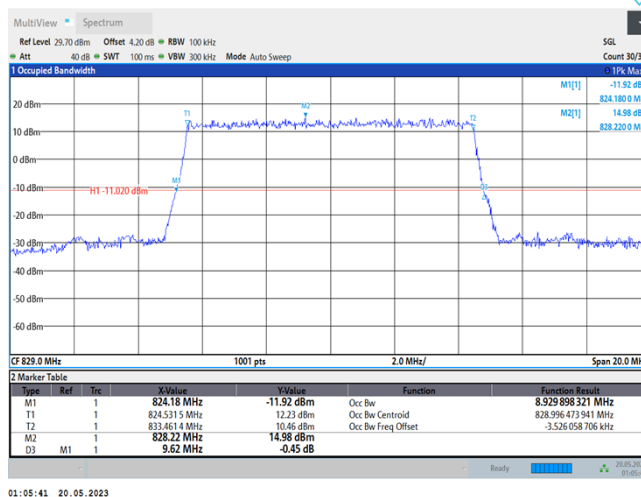
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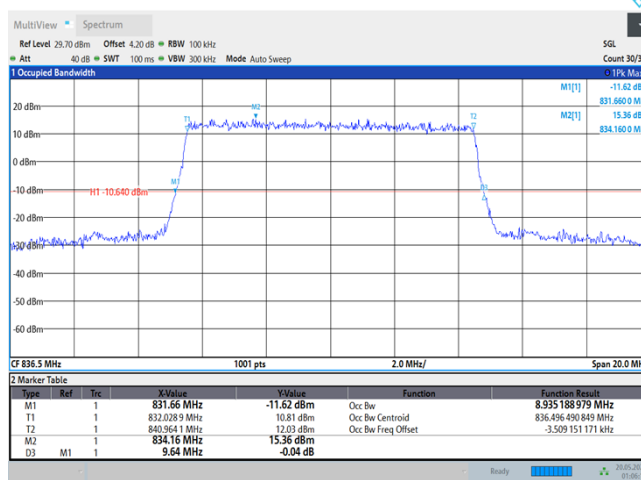
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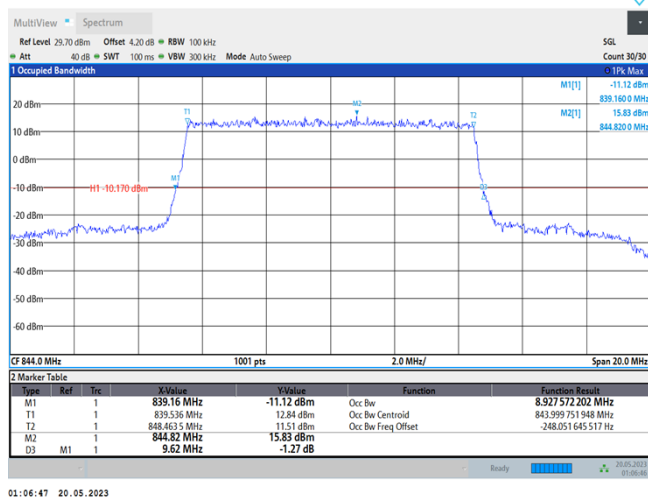
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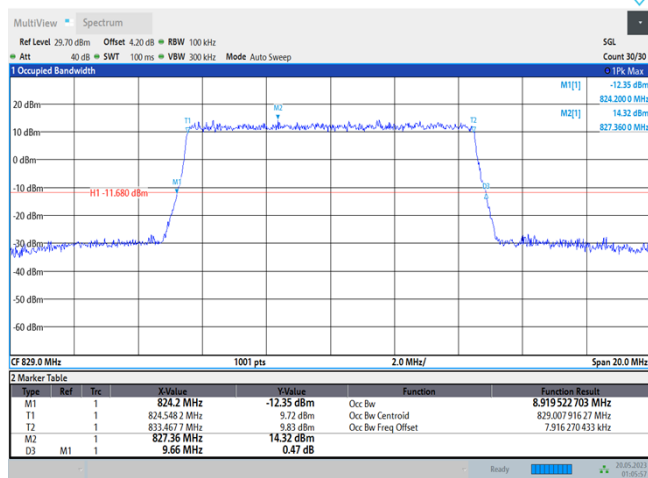
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Band5-10MHz-QPSK-20600-50RB#0



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



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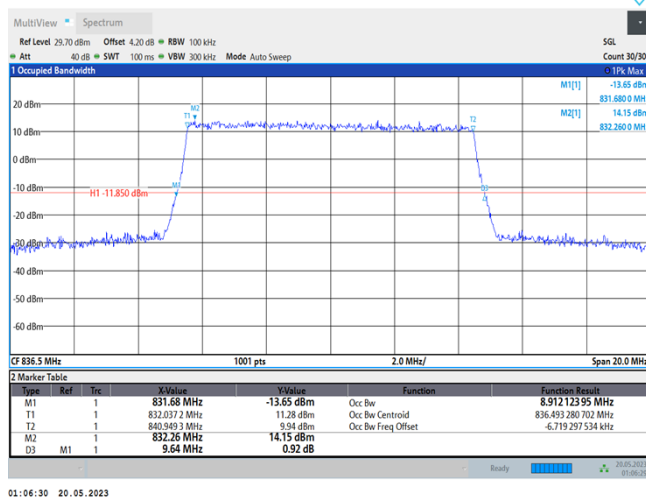
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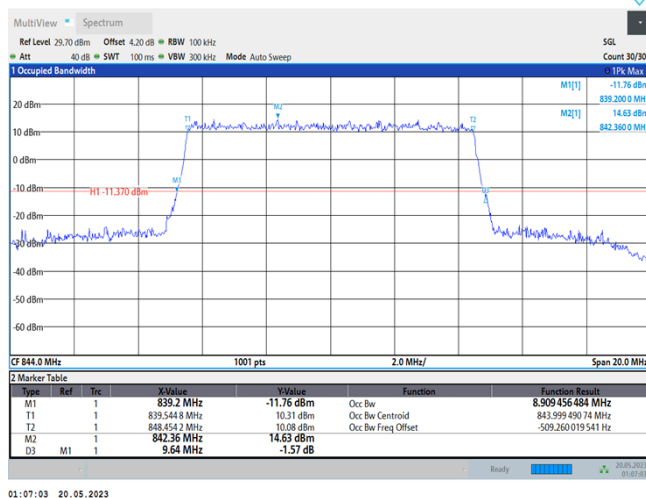
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Band5-10MHz-16QAM-20525-50RB#0



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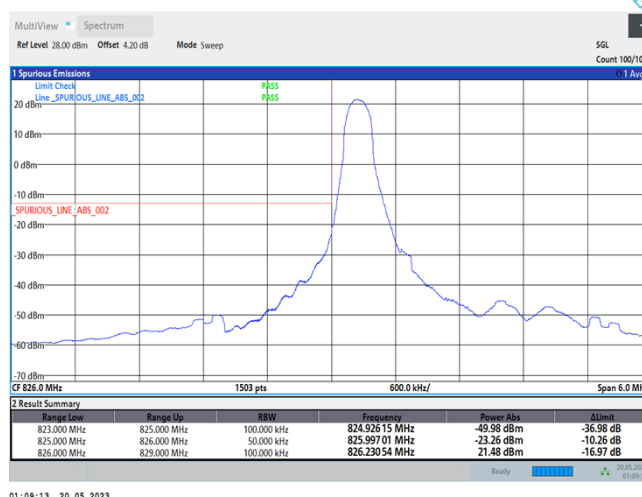
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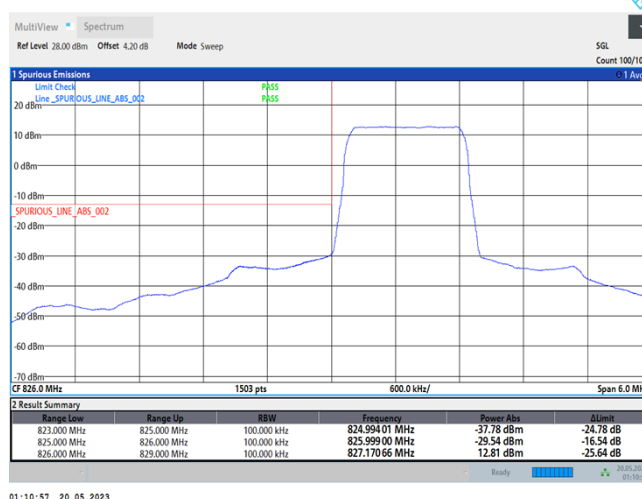
Band Edge

Test Graphs

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



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



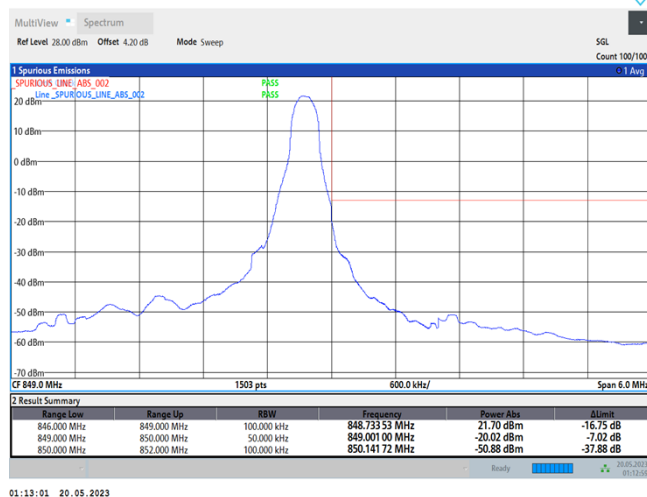
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Band5-1.4MHz-QPSK-20643-1RB#5



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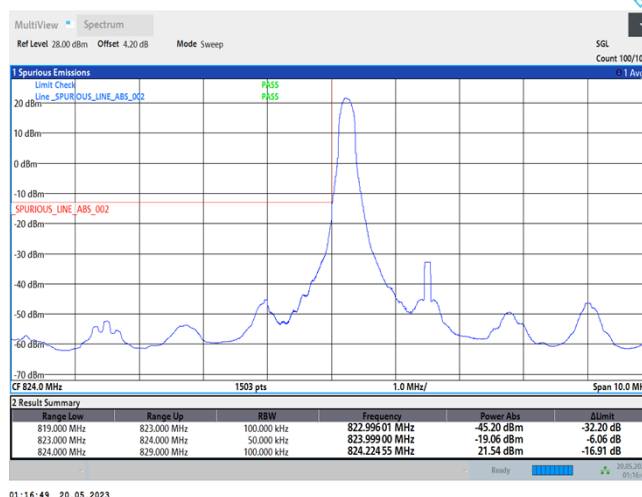
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Band5-3MHz-QPSK-20415-1RB#0



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



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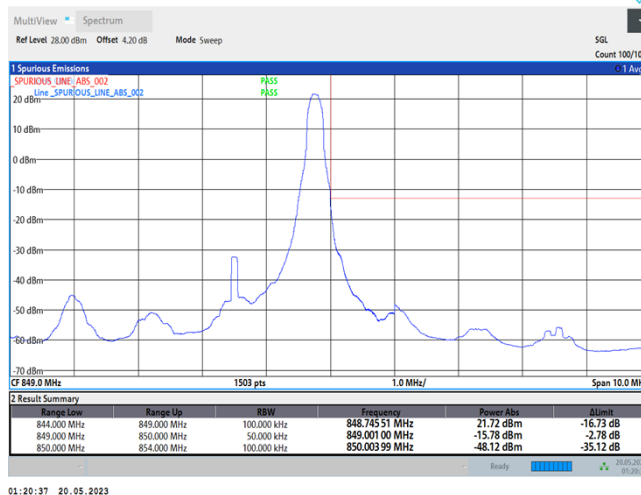
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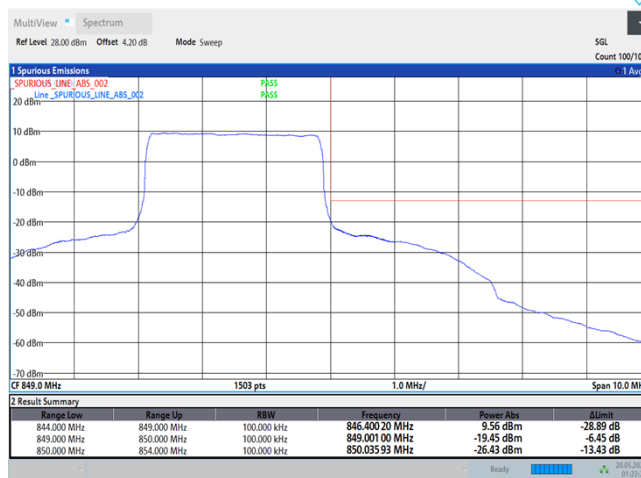
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Band5-3MHz-QPSK-20635-1RB#14



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



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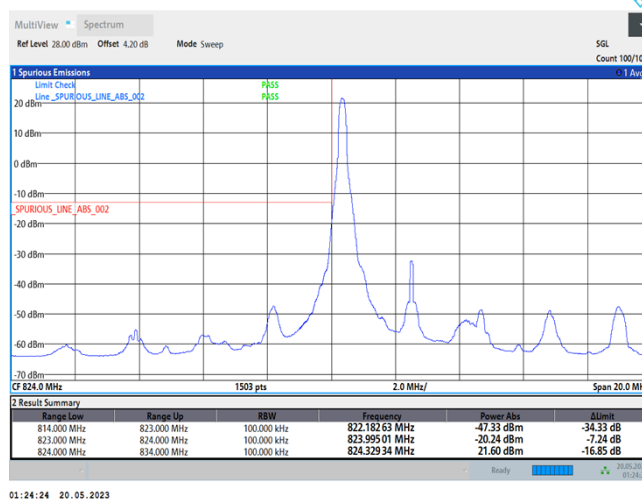
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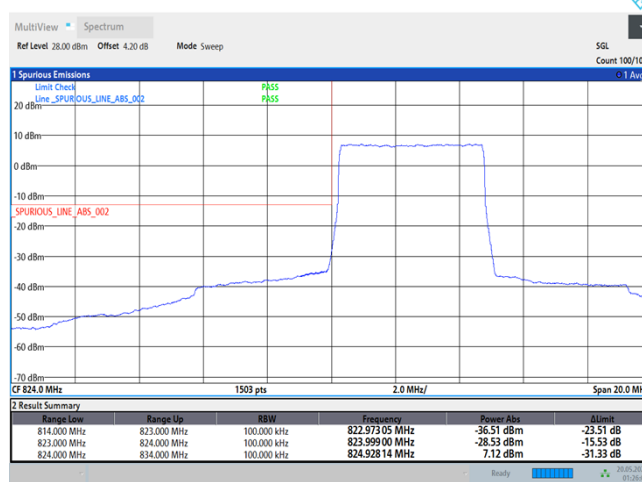
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Band5-5MHz-QPSK-20425-25RB#0



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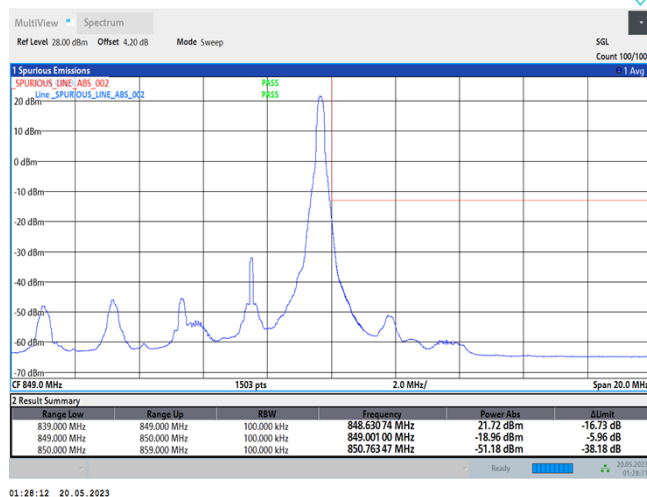
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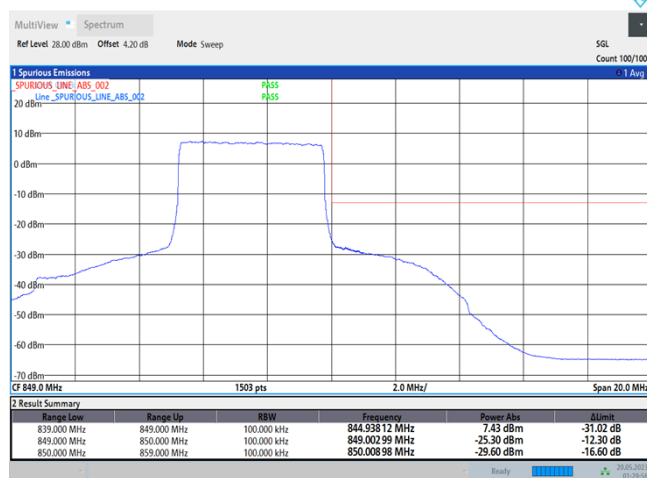
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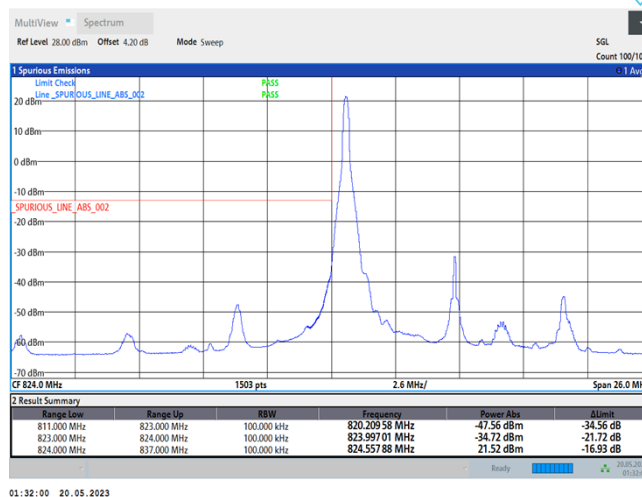
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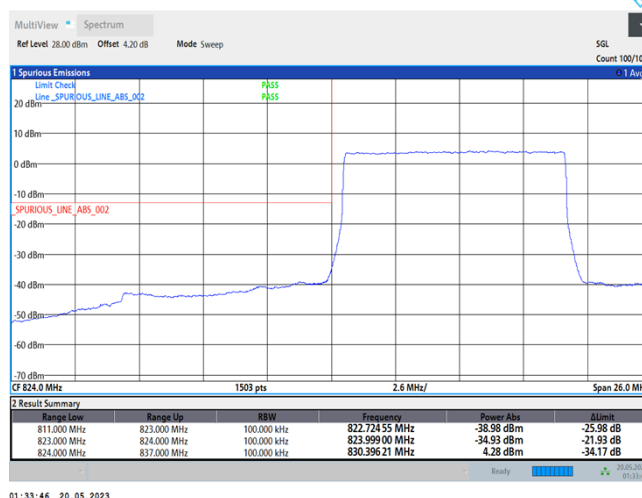
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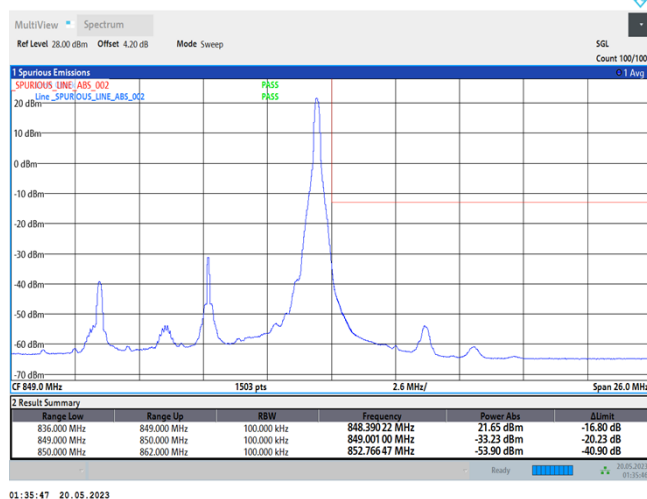
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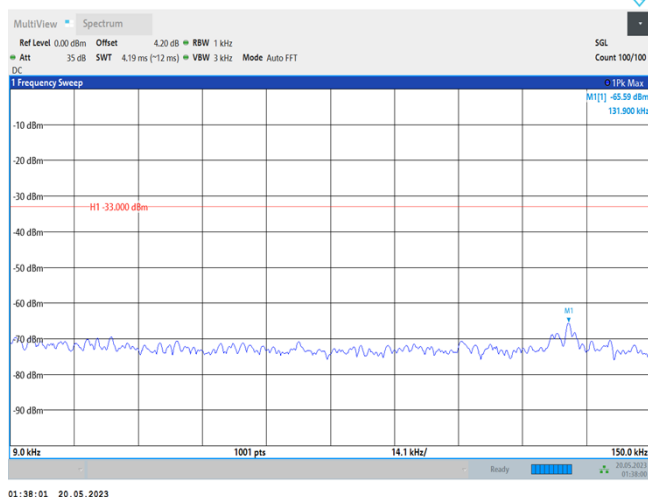
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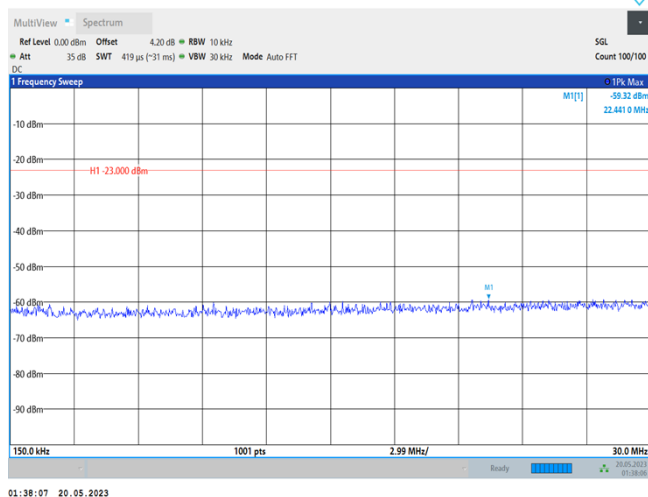
Conducted Spurious Emission

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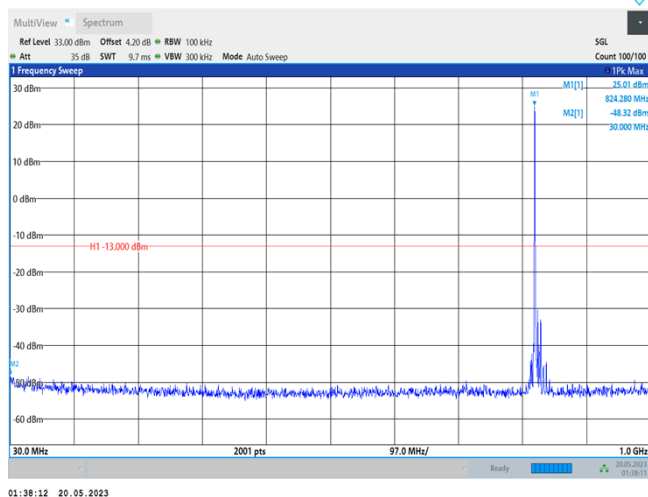
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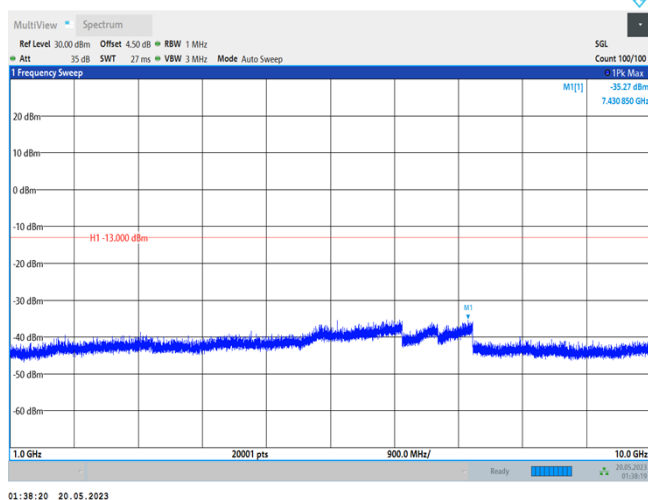
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Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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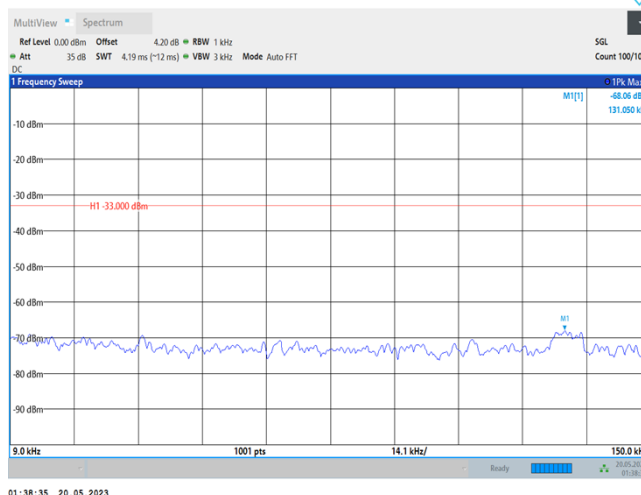
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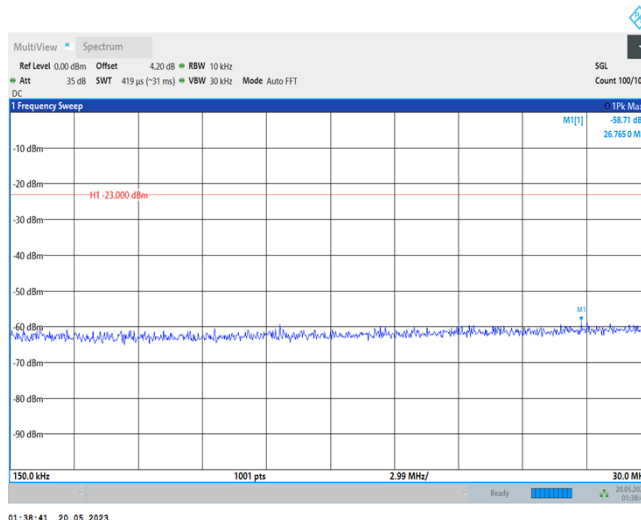
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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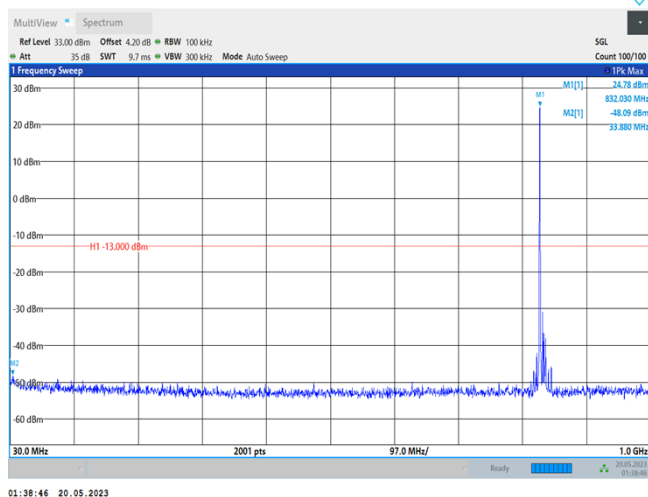
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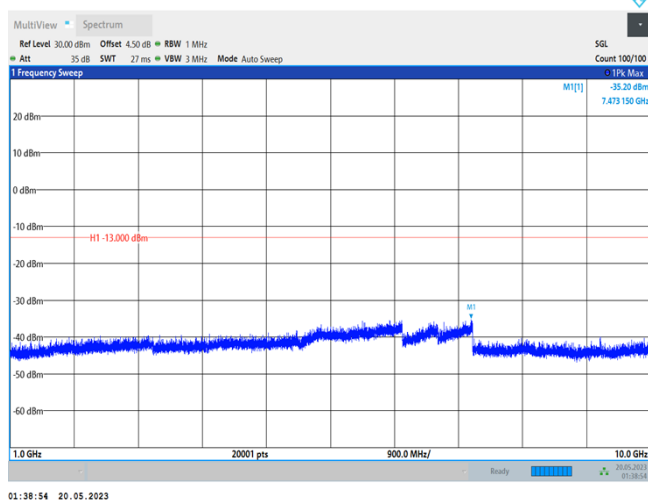
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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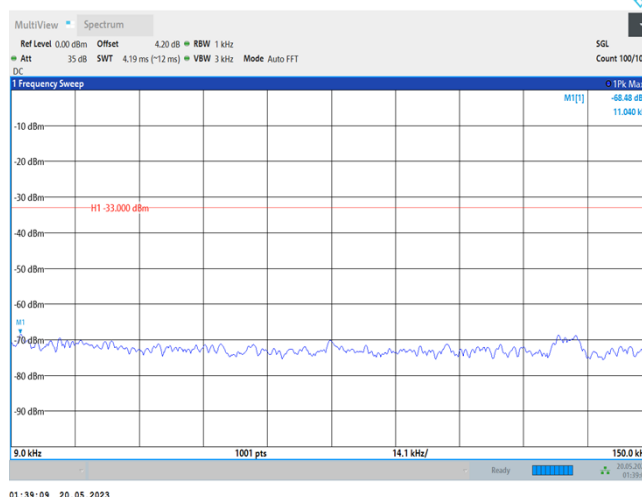
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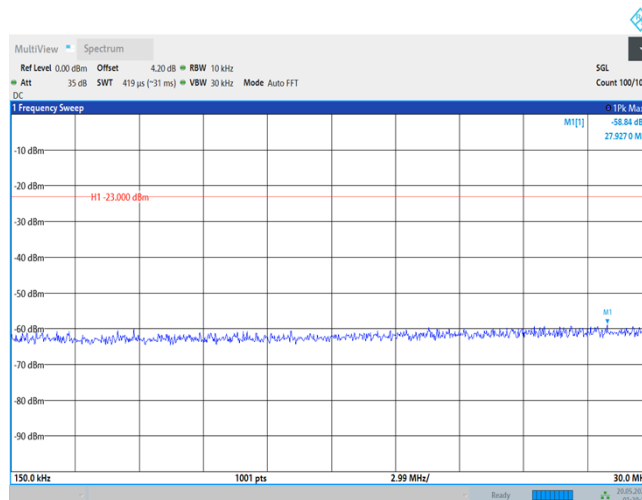
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



01:39:09 20.05.2023

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



01:39:15 20.05.2023



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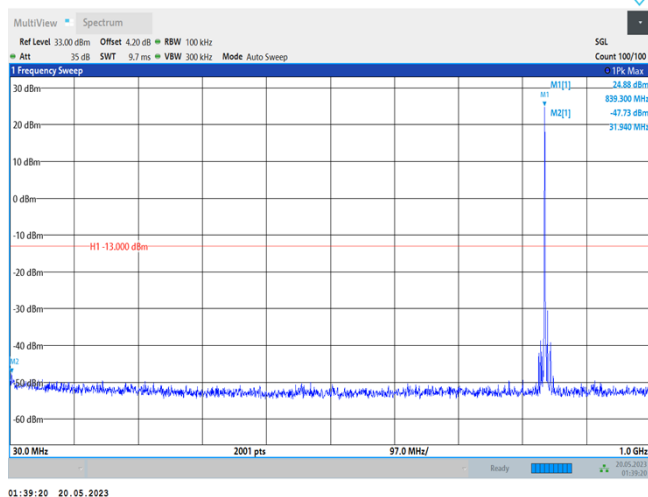
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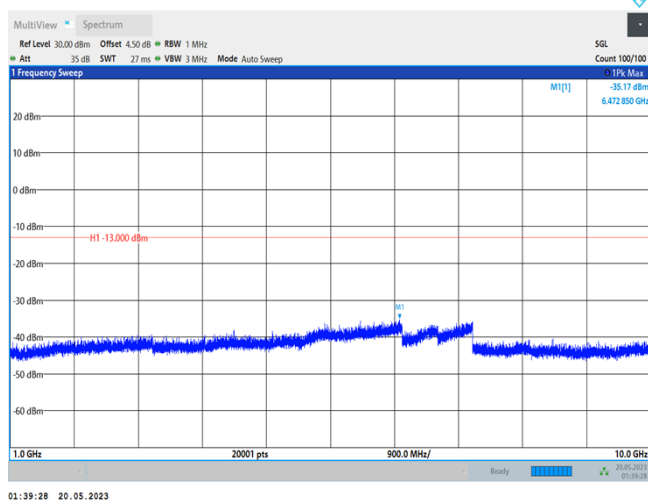
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_10MHz_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	46.06	-48.38	25.58	-72.01	-13.00	59.01	296	15	Horizontal
2	2473.77	43.50	-46.96	27.85	-70.88	-13.00	57.88	265	143	Horizontal
3	3298.36	43.02	-46.11	29.48	-68.87	-13.00	55.87	284	360	Horizontal
4	4122.95	41.87	-45.34	30.80	-67.93	-13.00	54.93	142	96	Horizontal
5	4947.54	41.77	-45.08	32.47	-66.10	-13.00	53.10	263	112	Horizontal
6	5772.13	41.56	-43.52	33.47	-63.75	-13.00	50.75	221	143	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	1649.18	51.30	-48.38	25.58	-66.77	-13.00	53.77	196	265	Vertical
2	2473.77	45.49	-46.96	27.85	-68.89	-13.00	55.89	265	203	Vertical
3	3298.36	43.09	-46.11	29.48	-68.80	-13.00	55.80	284	141	Vertical
4	4122.95	42.64	-45.34	30.80	-67.16	-13.00	54.16	142	172	Vertical
5	4947.54	41.90	-45.08	32.47	-65.97	-13.00	52.97	263	357	Vertical
6	5772.13	41.93	-43.52	33.47	-63.38	-13.00	50.38	225	328	Vertical



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Test Band = LTE Band 5_10MHz_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	48.27	-48.34	25.57	-69.76	-13.00	56.76	196	3	Horizontal
2	2496.27	43.74	-46.77	27.89	-70.40	-13.00	57.40	265	298	Horizontal
3	3328.36	42.95	-46.16	29.47	-69.00	-13.00	56.00	284	205	Horizontal
4	4160.45	41.92	-45.23	30.86	-67.71	-13.00	54.71	142	188	Horizontal
5	4992.54	42.21	-45.02	32.58	-65.49	-13.00	52.49	263	78	Horizontal
6	5824.63	41.44	-43.43	33.64	-63.61	-13.00	50.61	228	205	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	1664.18	53.41	-48.34	25.57	-64.62	-13.00	51.62	296	310	Vertical
2	2496.27	45.54	-46.77	27.89	-68.60	-13.00	55.60	265	296	Vertical
3	3328.36	42.99	-46.16	29.47	-68.96	-13.00	55.96	284	217	Vertical
4	4160.45	42.11	-45.23	30.86	-67.52	-13.00	54.52	142	75	Vertical
5	4992.54	42.21	-45.02	32.58	-65.49	-13.00	52.49	263	92	Vertical
6	5824.63	42.03	-43.43	33.64	-63.02	-13.00	50.02	228	27	Vertical



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Test Band = LTE Band 5_ 10MHz_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	44.09	-48.30	25.56	-73.91	-13.00	60.91	196	286	Horizontal
2	2518.77	43.51	-46.84	27.96	-70.62	-13.00	57.62	265	360	Horizontal
3	3358.36	43.12	-46.21	29.46	-68.89	-13.00	55.89	284	210	Horizontal
4	4197.95	42.05	-45.12	30.92	-67.41	-13.00	54.41	142	157	Horizontal
5	5037.54	42.03	-44.85	32.60	-65.48	-13.00	52.48	263	286	Horizontal
6	5887.13	41.66	-43.24	33.84	-63.00	-13.00	50.00	228	143	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	1679.18	44.27	-48.30	25.56	-73.73	-13.00	60.73	296	59	Vertical
2	2518.77	44.31	-46.84	27.96	-69.82	-13.00	56.82	265	328	Vertical
3	3358.36	43.77	-46.21	29.46	-68.24	-13.00	55.24	284	2	Vertical
4	4197.95	41.92	-45.12	30.92	-67.54	-13.00	54.54	142	45	Vertical
5	5037.54	42.34	-44.85	32.60	-65.17	-13.00	52.17	263	2	Vertical
6	5887.13	41.80	-43.24	33.84	-62.86	-13.00	49.86	228	185	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	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.10	-0.006097	±2.5	PASS

Temperature										
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-4.30	-0.005140	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	2.20	0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-5.30	-0.006336	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS

---End of Attachment---



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