

Report No.: SEWA2307000102RG01

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Appendix B.5

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	23.53	23.67	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.57	23.71	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.48	23.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.56	22.70	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.74	23.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.74	23.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.58	23.72	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.71	22.85	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.49	23.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.54	23.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.45	23.59	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.48	22.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.72	22.86	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.92	23.06	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.74	22.88	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.61	21.75	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.02	23.16	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.73	22.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.07	23.21	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.72	21.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.86	23.00	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.73	22.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.61	22.75	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.46	21.60	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.61	23.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.66	23.80	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.55	23.69	38.45	PASS



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Band5	3MHz	QPSK	20415	15RB#0	22.62	22.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.75	23.89	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.84	23.98	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.70	23.84	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.71	22.85	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.71	23.85	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.69	23.83	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.51	23.65	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.60	22.74	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.86	23.00	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.97	23.11	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.77	22.91	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.67	21.81	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.91	23.05	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.18	23.32	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.13	23.27	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.76	21.90	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.68	22.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.77	22.91	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.67	22.81	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.55	21.69	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.64	23.78	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.72	23.86	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.62	23.76	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.59	22.73	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.81	23.95	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.82	23.96	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.75	23.89	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.80	22.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.71	23.85	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.44	23.58	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.50	23.64	38.45	PASS



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Band5	5MHz	QPSK	20625	25RB#0	22.70	22.84	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.98	23.12	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.03	23.17	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.92	23.06	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.56	21.70	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.21	23.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.96	23.10	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.90	23.04	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.74	21.88	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.91	23.05	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.91	23.05	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.85	22.99	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.70	21.84	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.78	23.92	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.57	23.71	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.92	24.06	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.80	22.94	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.89	24.03	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.68	23.82	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.07	24.21	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.80	22.94	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.97	24.11	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.63	23.77	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.87	24.01	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.86	23.00	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.19	23.33	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.89	23.03	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.36	23.50	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.80	21.94	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.34	23.48	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.35	23.49	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.41	23.55	38.45	PASS



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Band5	10MHz	16QAM	20525	50RB#0	21.74	21.88	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.49	23.63	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.04	23.18	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.29	23.43	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.80	21.94	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	6.06	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	6.16	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	6.02	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.80	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.82	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.84	13	PASS

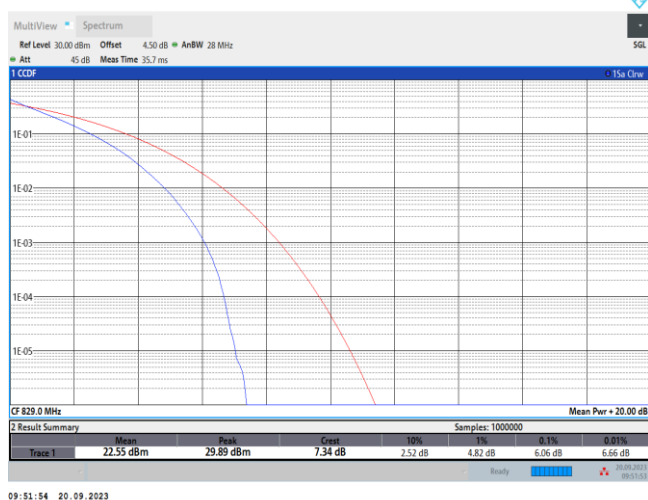


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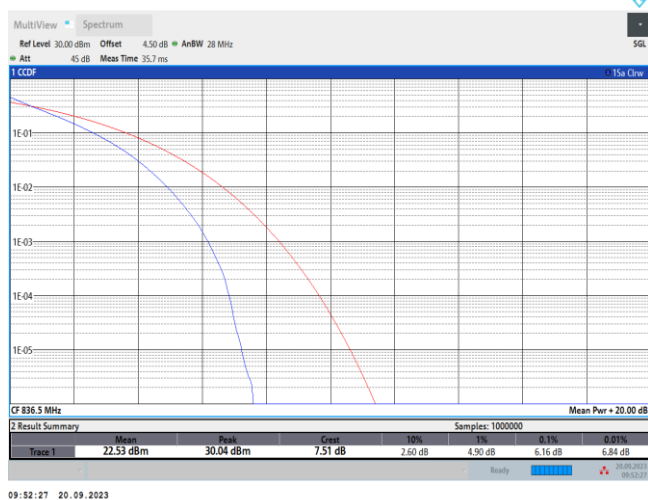
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Test Graphs

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



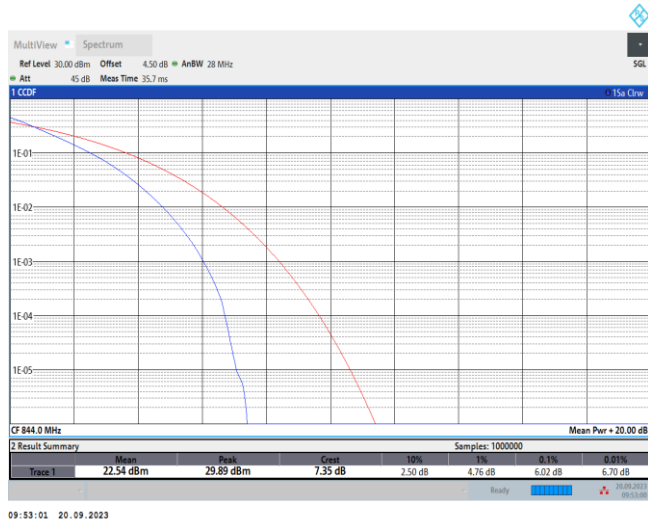
Band5-10MHz-QPSK-20525-50RB#0



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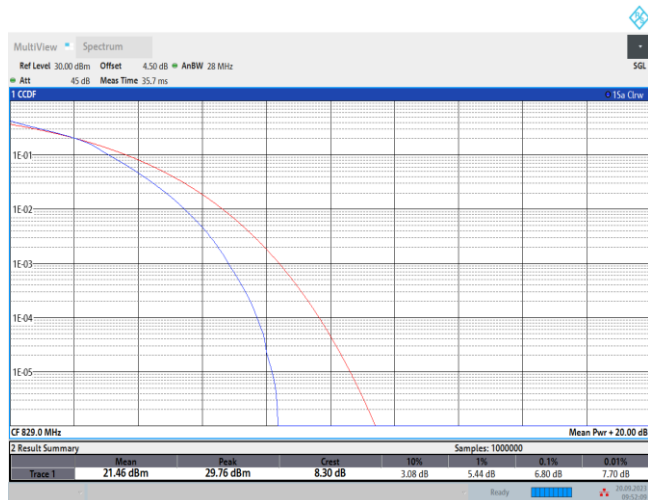
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Band5-10MHz-QPSK-20600-50RB#0



09:53:01 20.09.2023

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



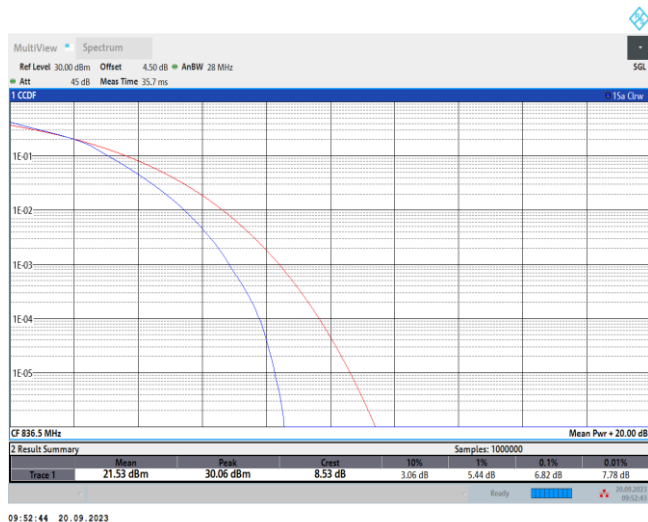
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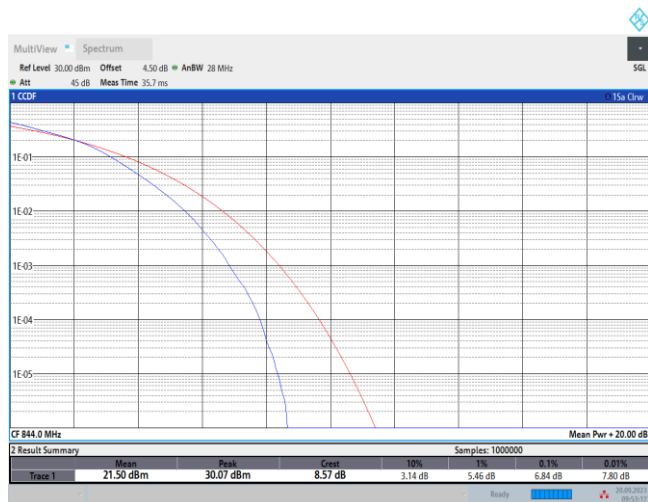
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Band5-10MHz-16QAM-20525-50RB#0



09:52:44 20.09.2023

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



09:53:17 20.09.2023



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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	20525	6RB#0	1.09	1.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.097	1.30	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.98	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.474	4.92	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.47	4.94	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.912	9.66	PASS



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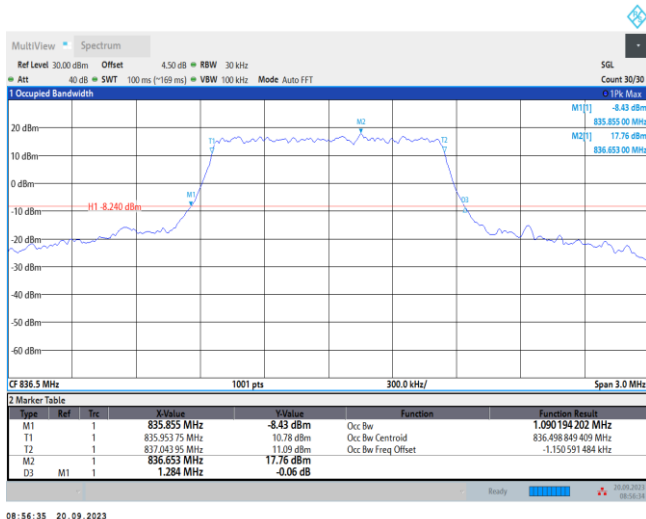
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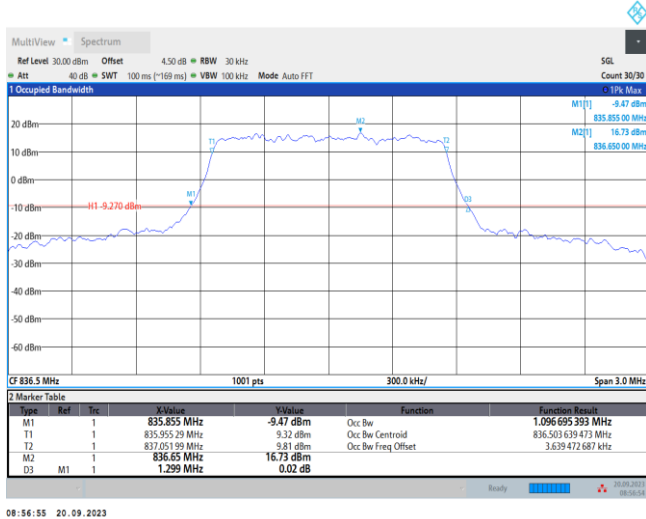
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Test Graphs

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



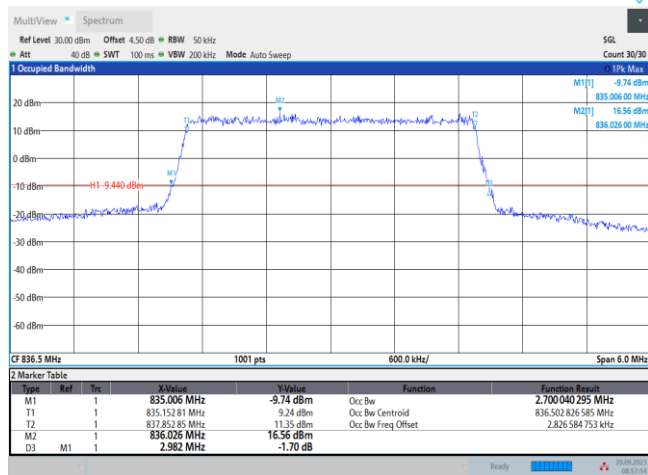
Band5-1.4MHz-16QAM-20525-6RB#0



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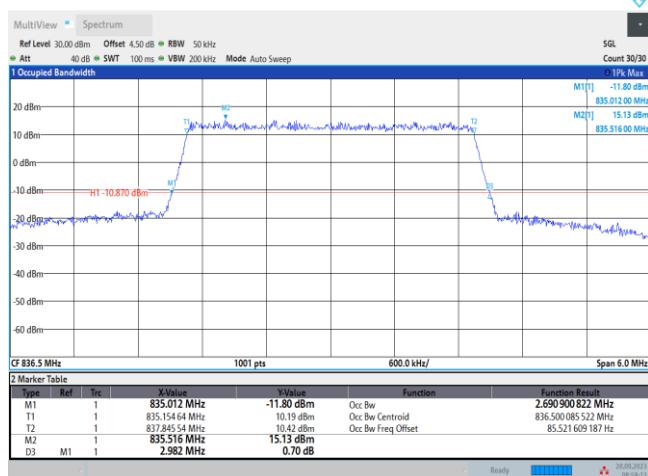
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Band5-3MHz-QPSK-20525-15RB#0



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



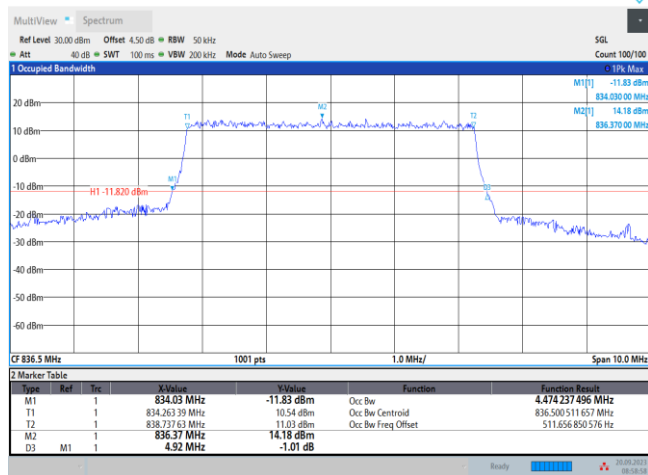
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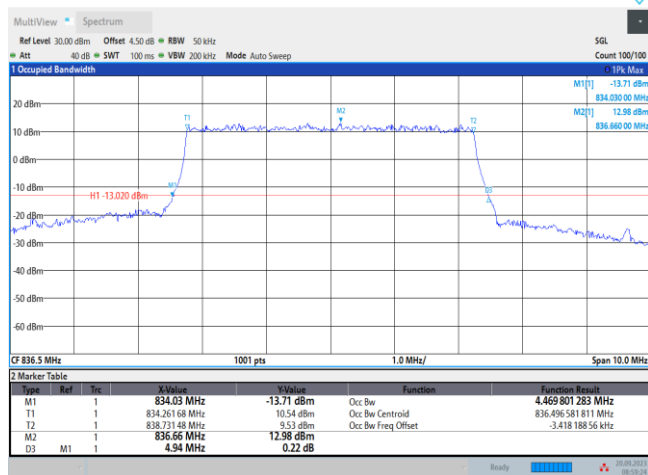
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Band5-5MHz-QPSK-20525-25RB#0



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



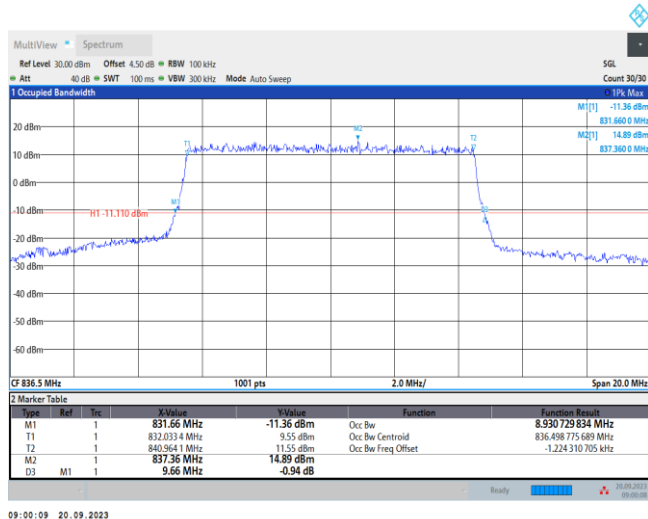
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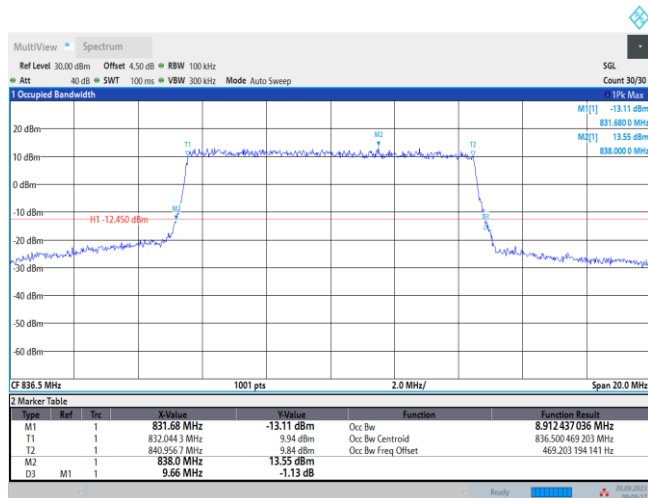
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Band5-10MHz-QPSK-20525-50RB#0



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



09:00:28 20.09.2023



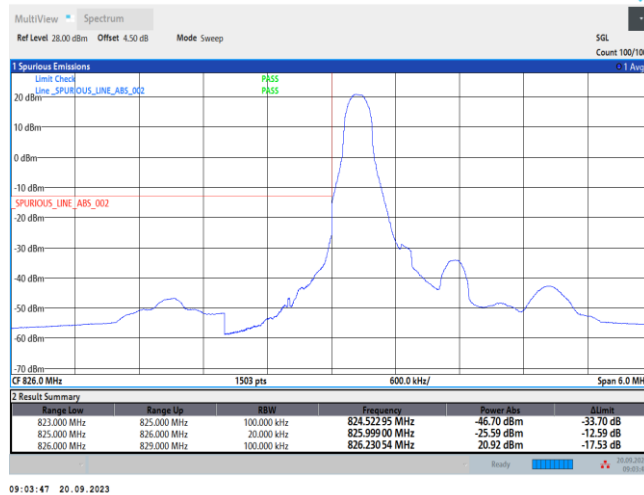
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Band Edge

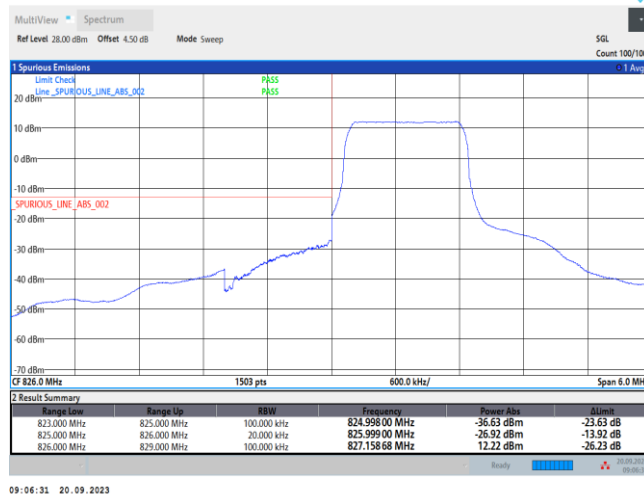
Test Graphs

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



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



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



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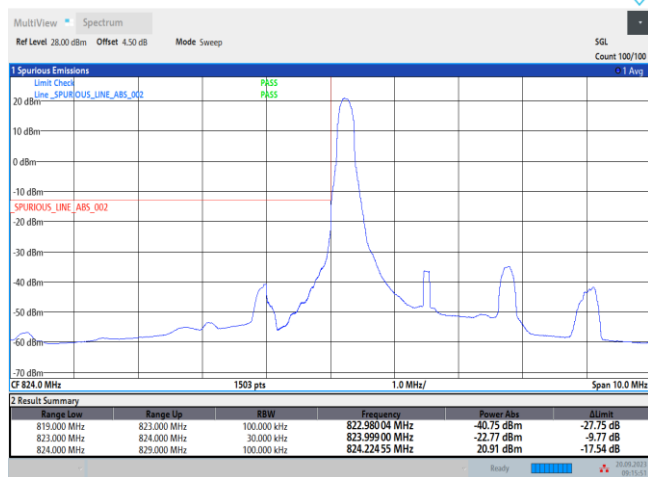
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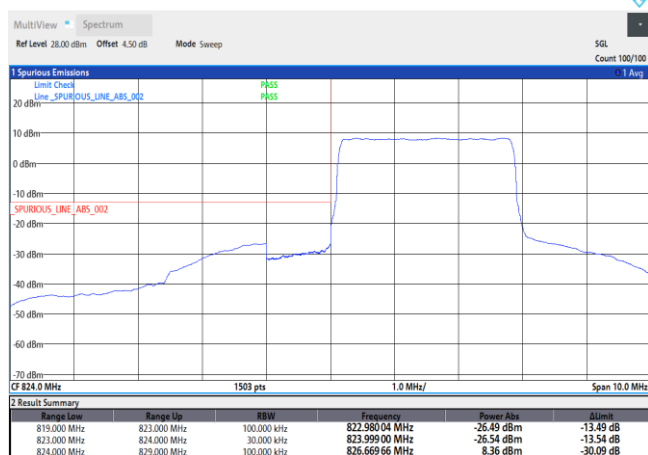
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Band5-3MHz-QPSK-20415-1RB#0



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

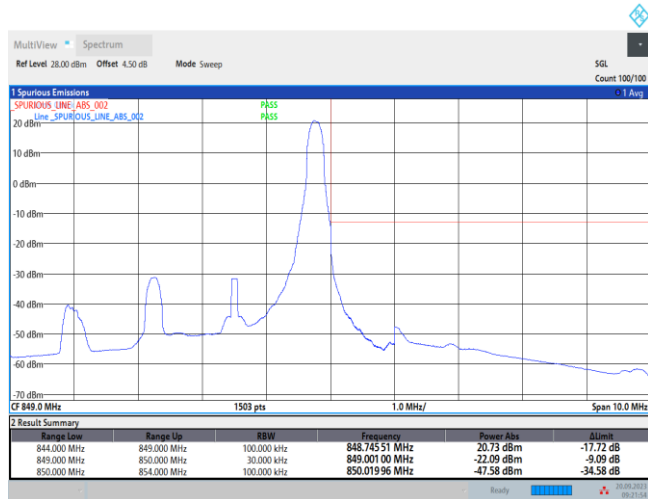


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Band5-3MHz-QPSK-20635-1RB#14



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

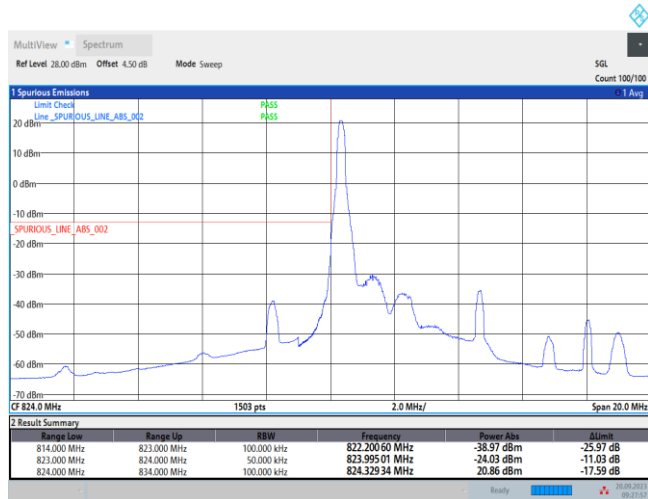


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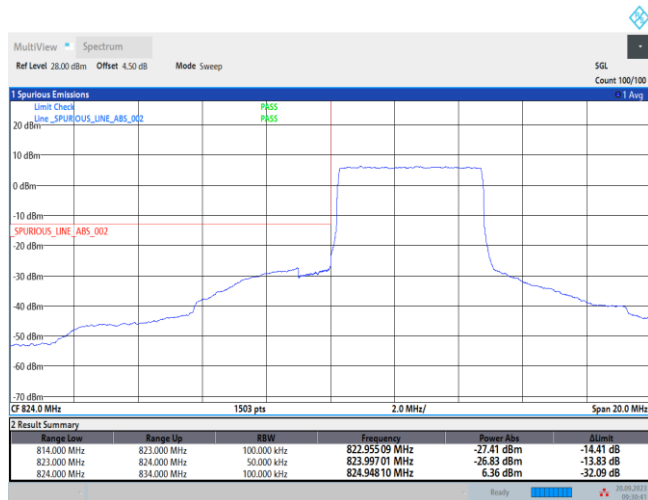
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Band5-5MHz-QPSK-20425-1RB#0



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



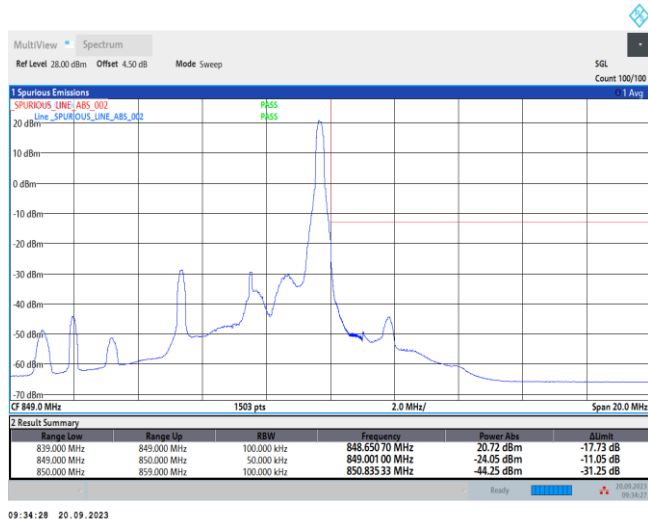
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Band5-5MHz-QPSK-20625-1RB#24



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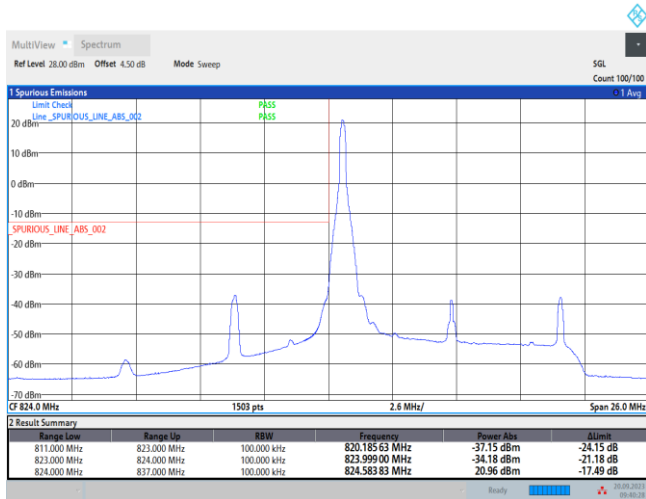
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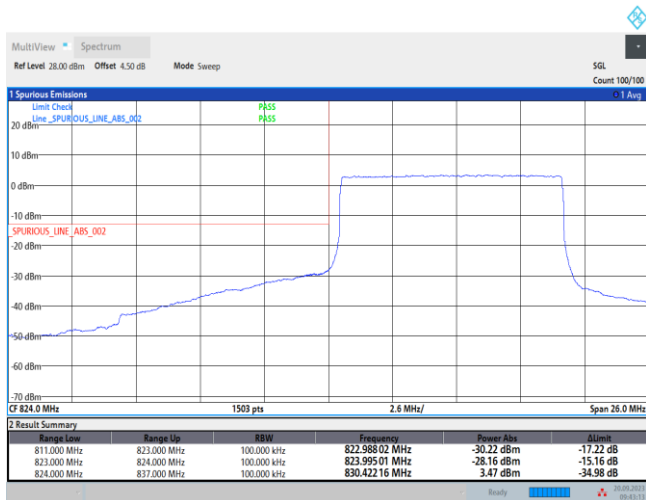
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Band5-10MHz-QPSK-20450-1RB#0



09:40:29 20.09.2023

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



09:43:13 20.09.2023

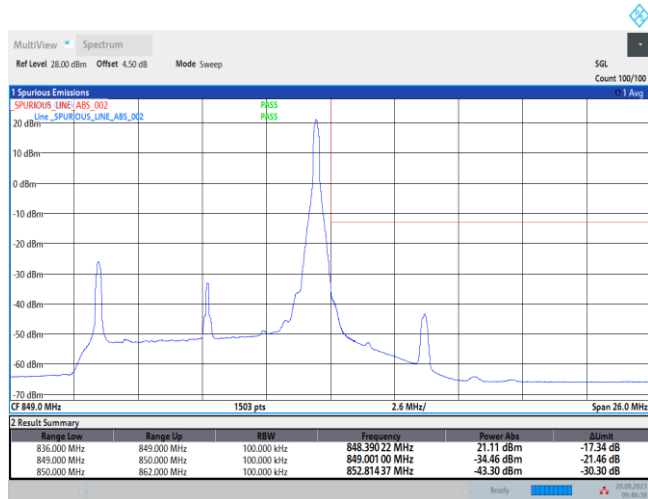


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Band5-10MHz-QPSK-20600-1RB#49



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



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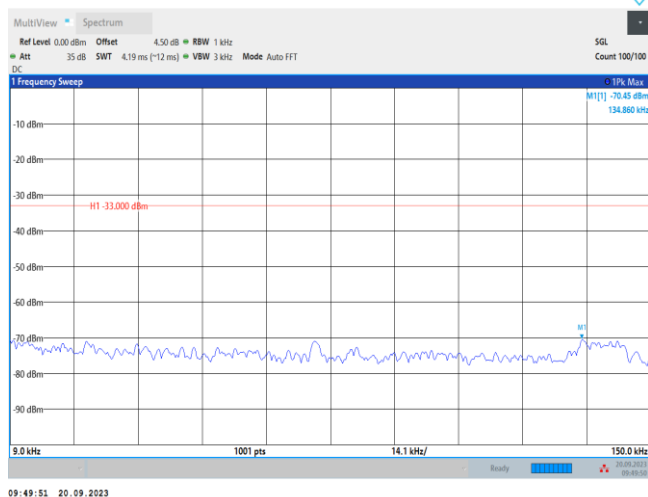
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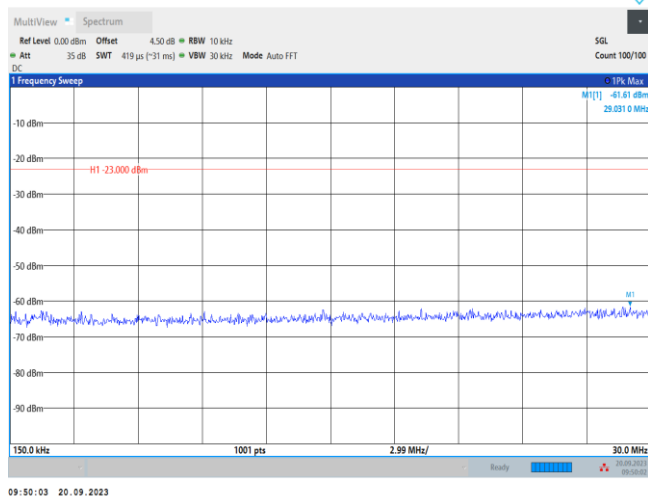
Conducted Spurious Emission

Test Graphs

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



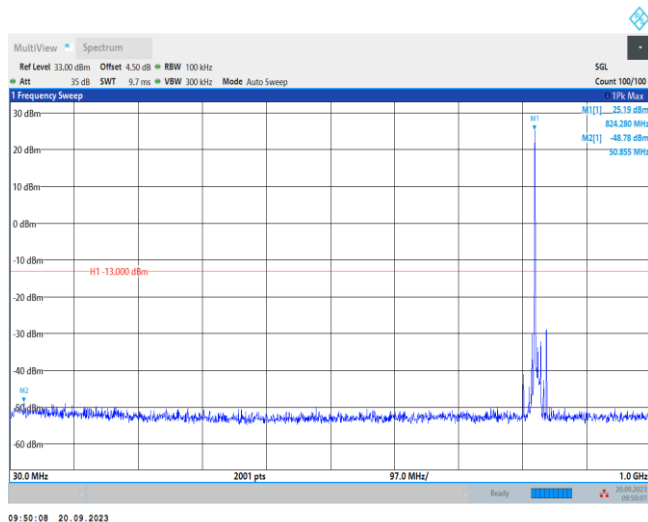
Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



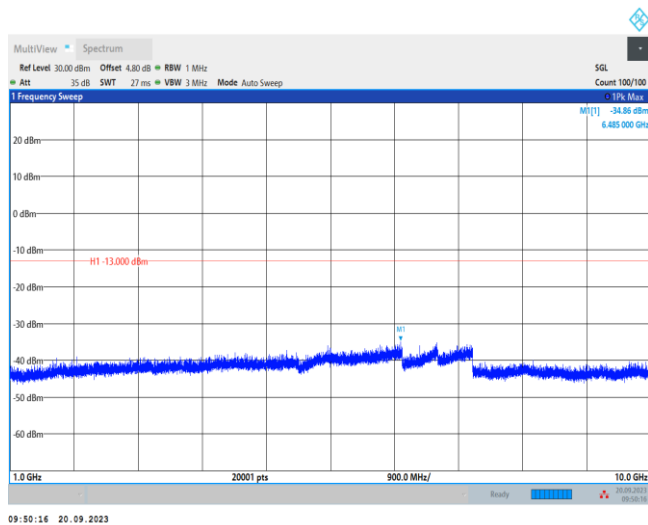
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



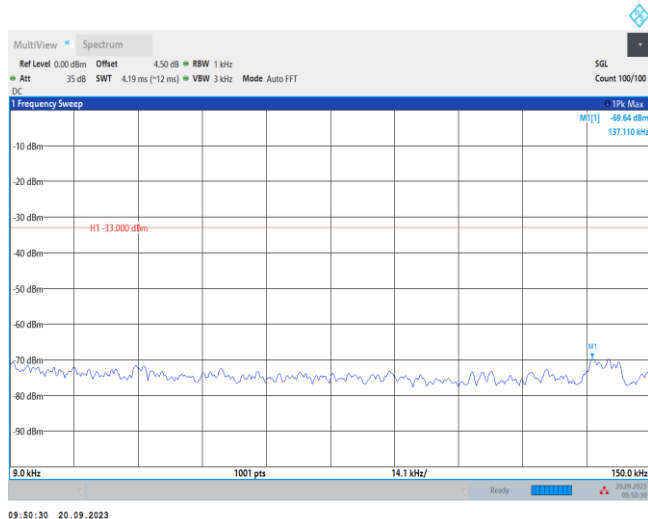
Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



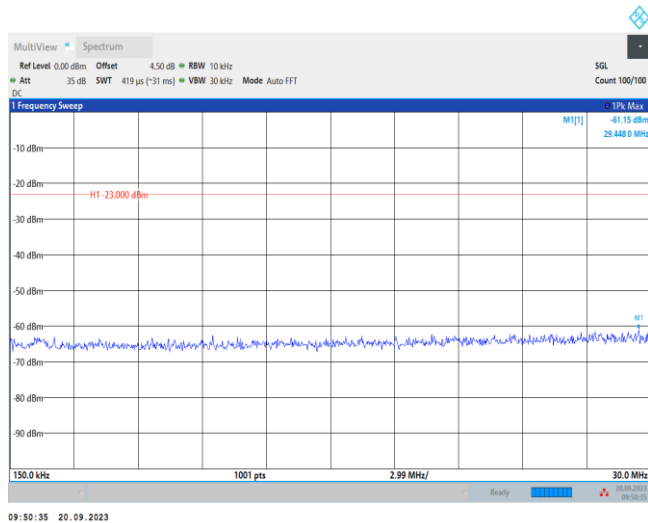
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



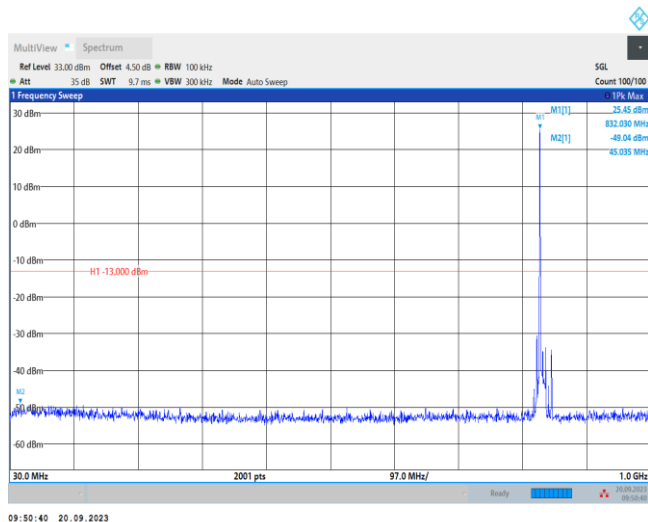
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



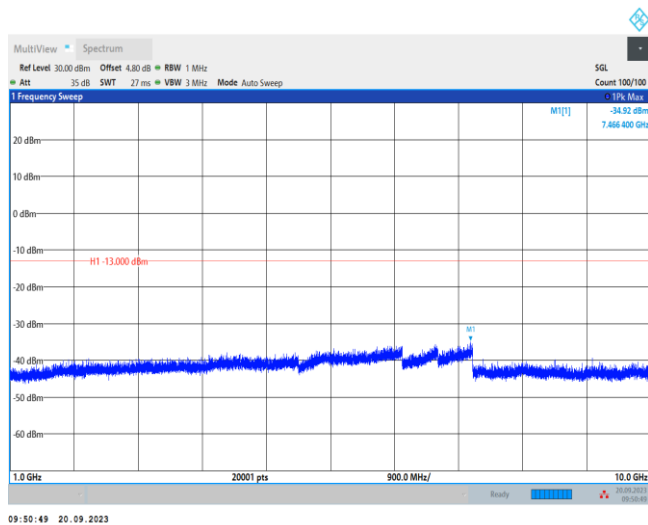
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



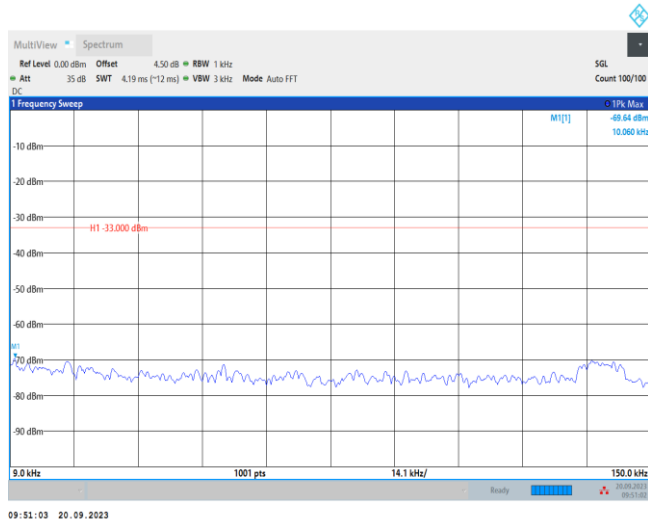
Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



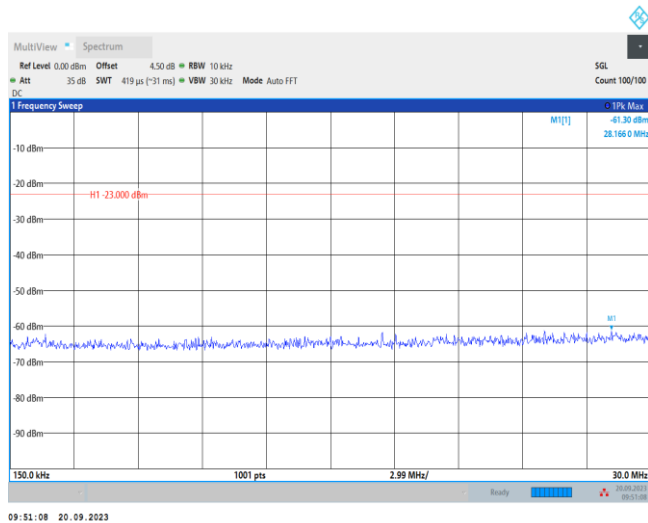
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



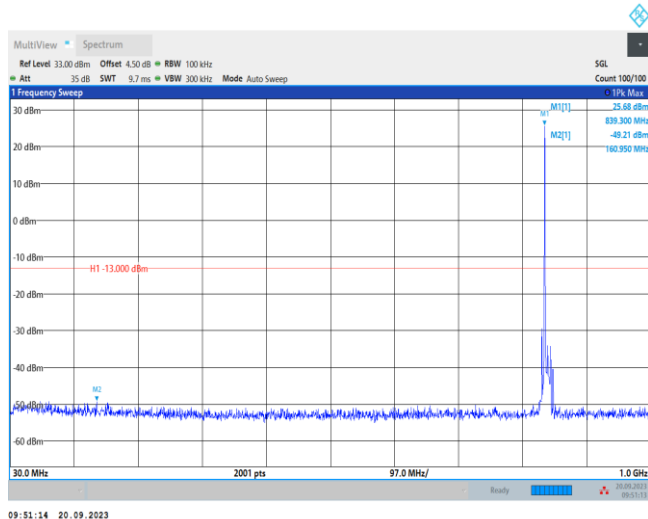
Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



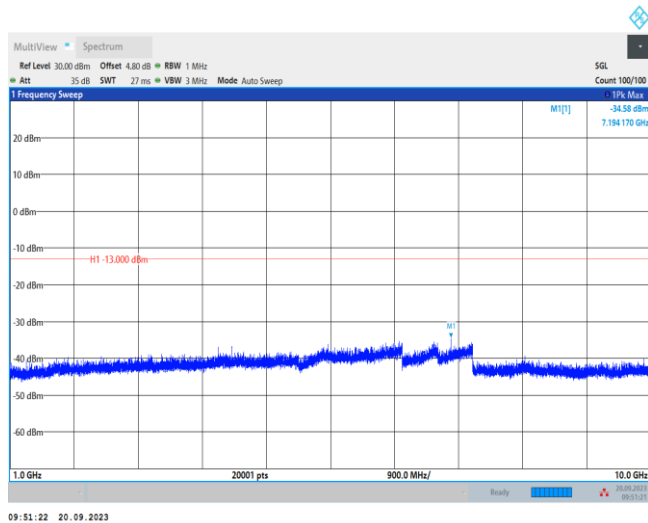
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.11	-48.22	25.27	-75.10	-13.00	62.10	Horizontal
2	2473.7700	41.45	-47.32	27.23	-73.90	-13.00	60.90	Horizontal
3	3298.3600	41.35	-46.68	28.48	-72.11	-13.00	59.11	Horizontal
4	4122.9500	40.43	-45.91	29.40	-71.35	-13.00	58.35	Horizontal
5	4947.5400	40.93	-45.69	31.29	-68.73	-13.00	55.73	Horizontal
6	5772.1300	39.27	-44.64	32.65	-67.97	-13.00	54.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.66	-48.22	25.27	-74.55	-13.00	61.55	Vertical
2	2473.7700	43.10	-47.32	27.23	-72.25	-13.00	59.25	Vertical
3	3298.3600	41.89	-46.68	28.48	-71.57	-13.00	58.57	Vertical
4	4122.9500	41.05	-45.91	29.40	-70.73	-13.00	57.73	Vertical
5	4947.5400	41.53	-45.69	31.29	-68.13	-13.00	55.13	Vertical
6	5772.1300	39.05	-44.64	32.65	-68.19	-13.00	55.19	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]	Polarity
1	1664.1800	42.19	-48.20	25.30	-75.98	-13.00	62.98	Horizontal
2	2496.2700	42.09	-47.28	27.29	-73.16	-13.00	60.16	Horizontal
3	3328.3600	41.73	-46.64	28.50	-71.67	-13.00	58.67	Horizontal
4	4160.4500	40.49	-45.94	29.49	-71.22	-13.00	58.22	Horizontal
5	4992.5400	40.16	-45.79	31.38	-69.51	-13.00	56.51	Horizontal
6	5824.6300	39.39	-44.74	32.67	-67.94	-13.00	54.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	43.44	-48.20	25.30	-74.73	-13.00	61.73	Vertical
2	2496.2700	42.73	-47.28	27.29	-72.52	-13.00	59.52	Vertical
3	3328.3600	43.53	-46.64	28.50	-69.87	-13.00	56.87	Vertical
4	4160.4500	40.70	-45.94	29.49	-71.01	-13.00	58.01	Vertical
5	4992.5400	41.59	-45.79	31.38	-68.08	-13.00	55.08	Vertical
6	5824.6300	39.90	-44.74	32.67	-67.43	-13.00	54.43	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]	Polarity
1	1679.1800	42.15	-48.18	25.32	-75.98	-13.00	62.98	Horizontal
2	2518.7700	41.86	-47.21	27.34	-73.27	-13.00	60.27	Horizontal
3	3358.3600	42.04	-46.60	28.52	-71.30	-13.00	58.30	Horizontal
4	4197.9500	40.39	-45.96	29.58	-71.25	-13.00	58.25	Horizontal
5	5037.5400	40.53	-45.65	31.49	-68.89	-13.00	55.89	Horizontal
6	5887.1300	39.76	-44.93	32.68	-67.75	-13.00	54.75	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	43.42	-48.18	25.32	-74.71	-13.00	61.71	Vertical
2	2518.7700	42.95	-47.21	27.34	-72.18	-13.00	59.18	Vertical
3	3358.3600	42.13	-46.60	28.52	-71.21	-13.00	58.21	Vertical
4	4197.9500	40.74	-45.96	29.58	-70.90	-13.00	57.90	Vertical
5	5037.5400	40.79	-45.65	31.49	-68.63	-13.00	55.63	Vertical
6	5887.1300	40.03	-44.93	32.68	-67.48	-13.00	54.48	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	0.50	0.000598	±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	0.00	0.000000	±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	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.80	0.000956	±2.5	PASS

---End of Attachment---



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