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# Appendix B.4

## 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	23.99	23.97	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.91	23.89	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.92	23.90	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.70	22.68	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.64	23.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.56	23.54	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.60	23.58	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.63	22.61	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.99	23.97	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.95	23.93	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.91	23.89	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.67	22.65	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.88	22.86	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.04	23.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.94	22.92	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.80	21.78	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.90	22.88	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.86	22.84	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.76	22.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.77	21.75	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.01	22.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.88	22.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.94	22.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.82	21.80	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.84	23.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.92	23.90	38.45	PASS



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Band5	3MHz	QPSK	20415	1RB#14	23.83	23.81	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.74	22.72	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.58	23.56	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.62	23.60	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.48	23.46	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.63	22.61	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.89	23.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.99	23.97	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.90	23.88	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.66	22.64	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.96	22.94	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.01	22.99	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.99	22.97	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.73	21.71	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.87	22.85	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.80	22.78	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.71	22.69	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.64	21.62	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.79	22.77	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.96	22.94	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.80	22.78	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.70	21.68	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.09	24.07	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.98	23.96	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.00	23.98	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.73	22.71	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.77	23.75	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.56	23.54	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.72	23.70	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.57	22.55	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.02	24.00	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.95	23.93	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.10	24.08	38.45	PASS



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Band5	5MHz	QPSK	20625	25RB#0	22.62	22.60	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.07	23.05	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.11	23.09	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.09	23.07	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.75	21.73	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.01	22.99	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.85	22.83	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.81	22.79	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.60	21.58	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.05	23.03	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.91	22.89	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.02	23.00	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.70	21.68	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.19	24.17	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.89	23.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.86	23.84	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.69	22.67	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.90	23.88	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.53	23.51	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.95	23.93	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.38	22.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.87	23.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.88	23.86	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.21	24.19	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.64	22.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.08	23.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.24	23.22	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.90	22.88	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	21.70	21.68	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.94	22.92	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.85	22.83	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.99	22.97	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	21.63	21.61	38.45	PASS



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Band5	10MHz	16QAM	20600	1RB#0	23.02	23.00	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.05	23.03	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.18	23.16	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	21.58	21.56	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	5.26	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.20	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.70	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	6.02	13	PASS

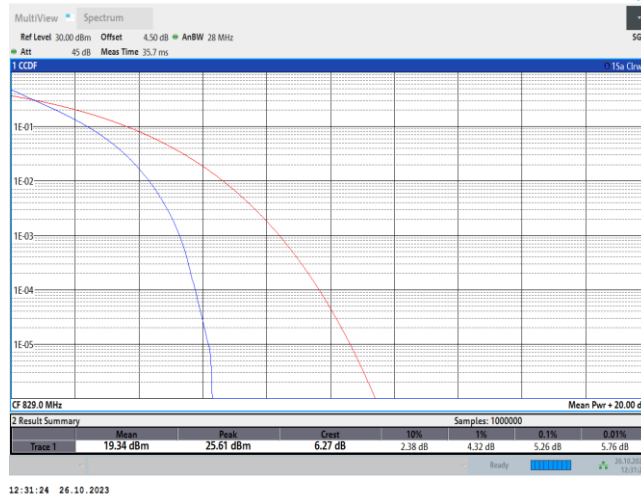


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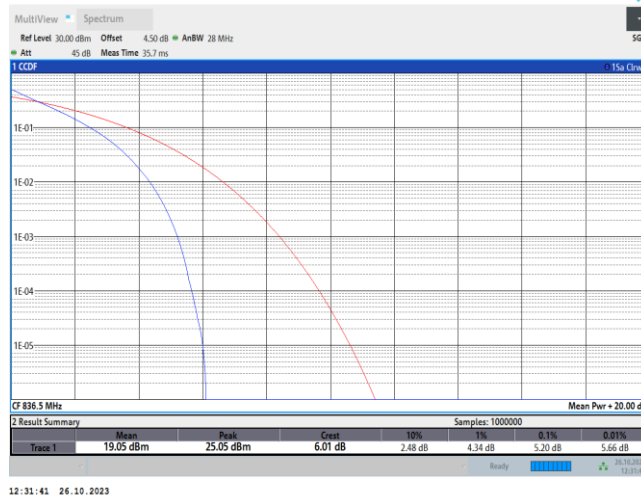
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Test Graphs

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



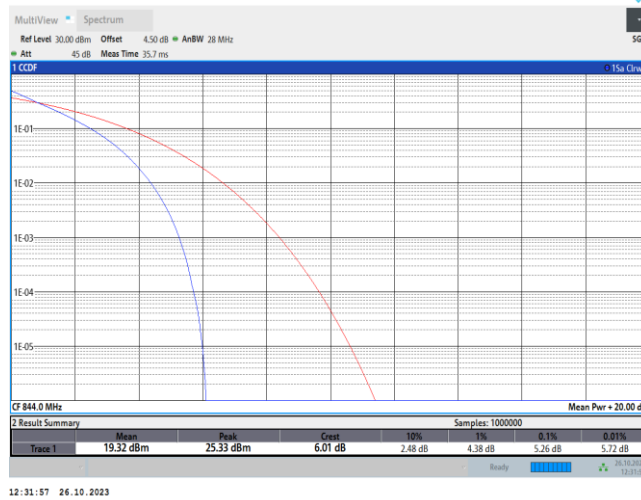
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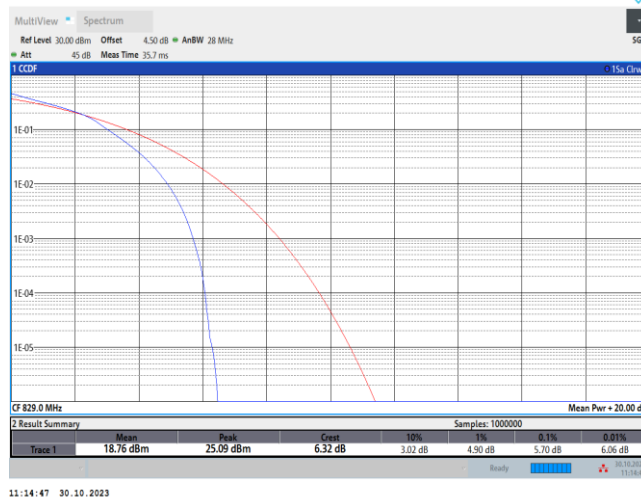
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-27RB#0



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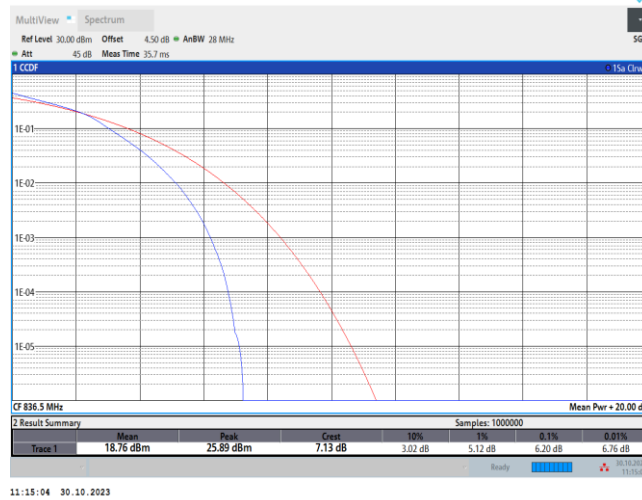
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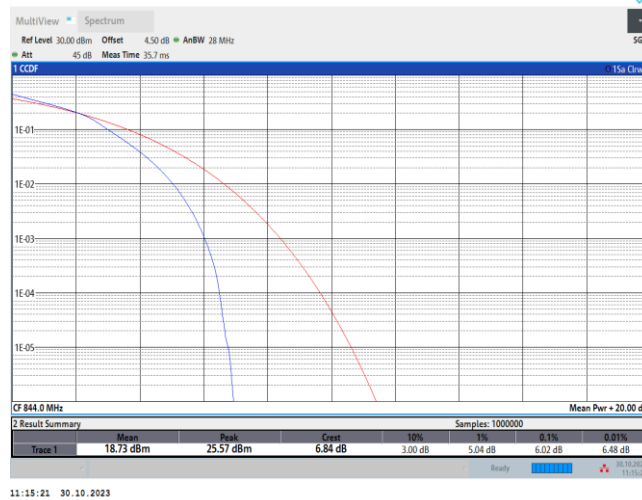
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Band5-10MHz-16QAM-20525-27RB#0



Band5-10MHz-16QAM-20600-27RB#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	20525	6RB#0	1.089	1.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.093	1.28	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.694	2.93	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.682	2.95	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.468	4.85	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.467	4.87	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.60	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.87	5.56	PASS



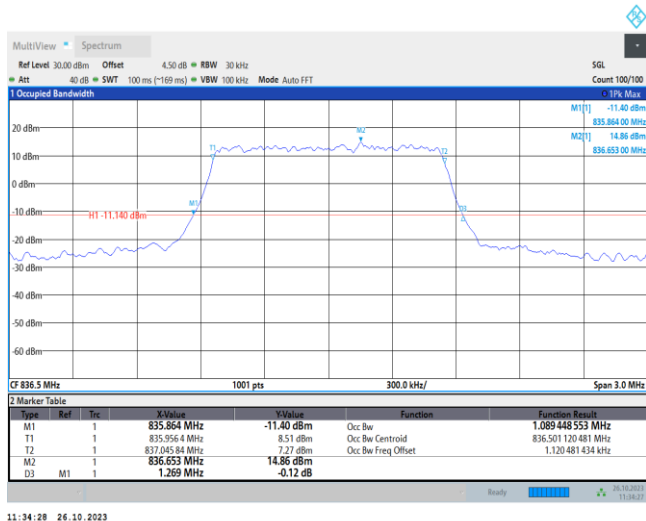
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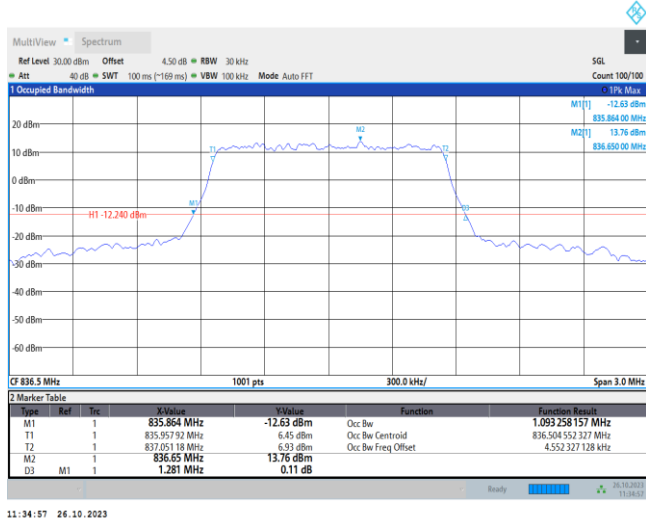
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Test Graphs

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



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

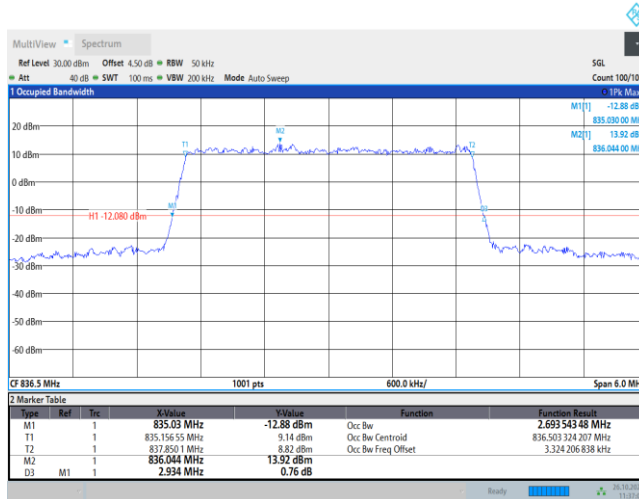


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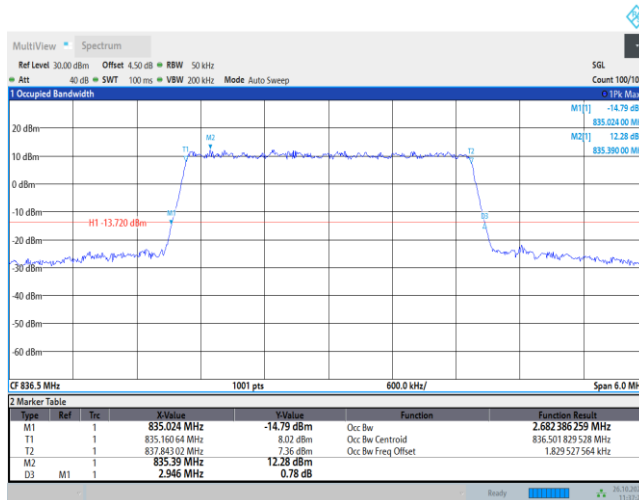
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Band5-3MHz-QPSK-20525-15RB#0



11:37:03 26.10.2023

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



11:37:29 26.10.2023

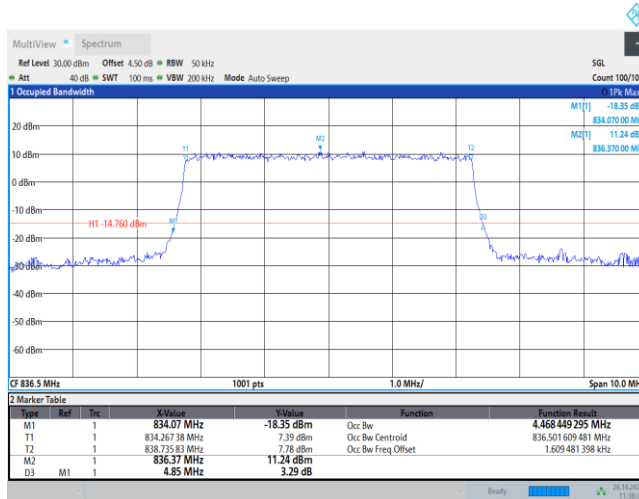


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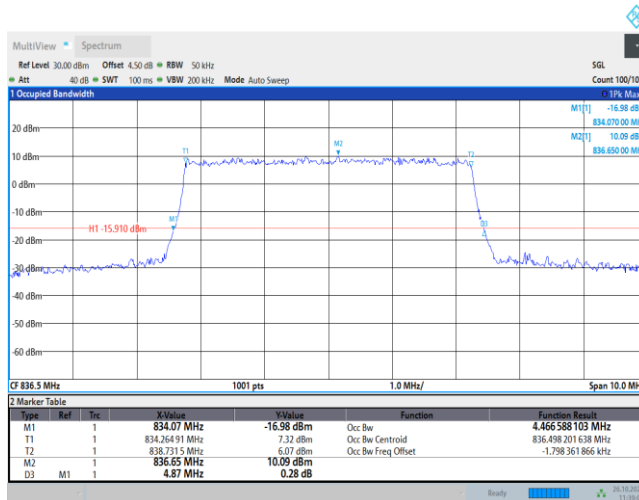
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Band5-5MHz-QPSK-20525-25RB#0



11:38:40 26.10.2023

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



11:39:06 26.10.2023

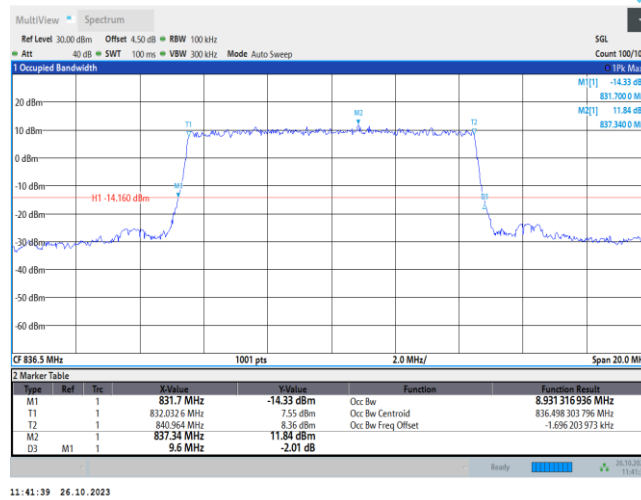


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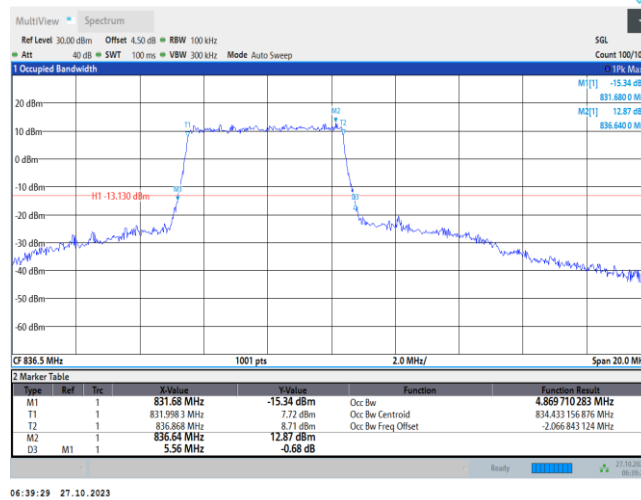
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Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-27RB#0



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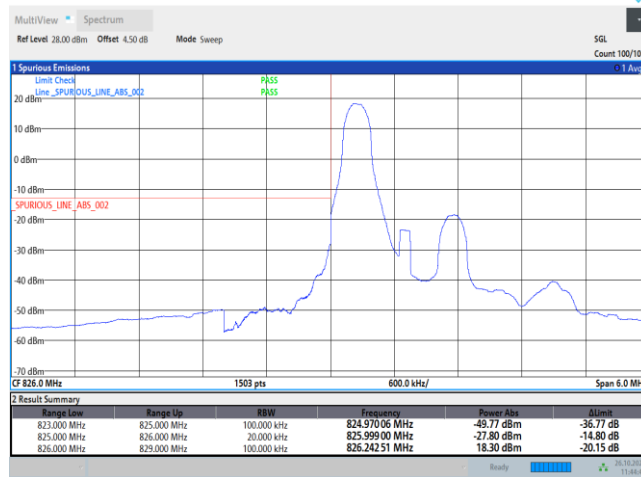
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# Band Edge

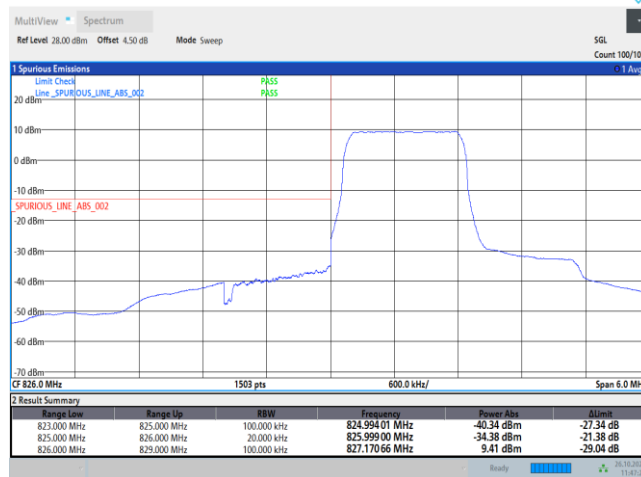
## Test Graphs

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



11:44:46 26.10.2023

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



11:47:30 26.10.2023



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



11:50:39 26.10.2023

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



11:53:23 26.10.2023



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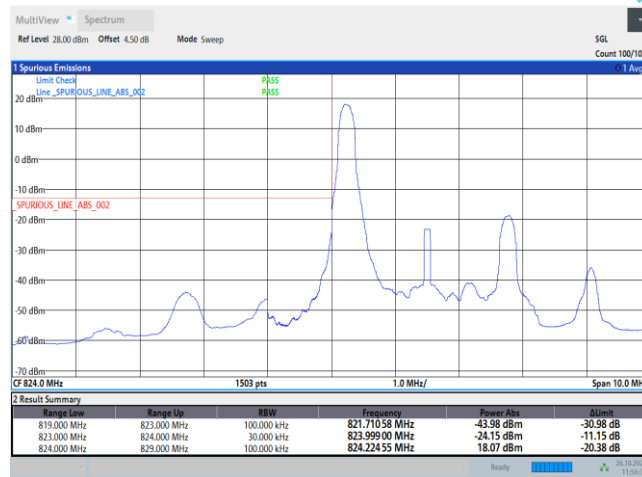
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Band5-3MHz-QPSK-20415-1RB#0



11:56:36 26.10.2023

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



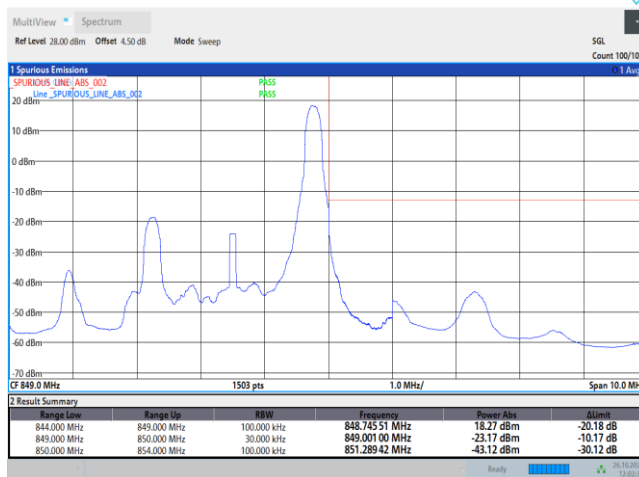
11:59:21 26.10.2023



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



12:02:33 26.10.2023

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



12:05:17 26.10.2023

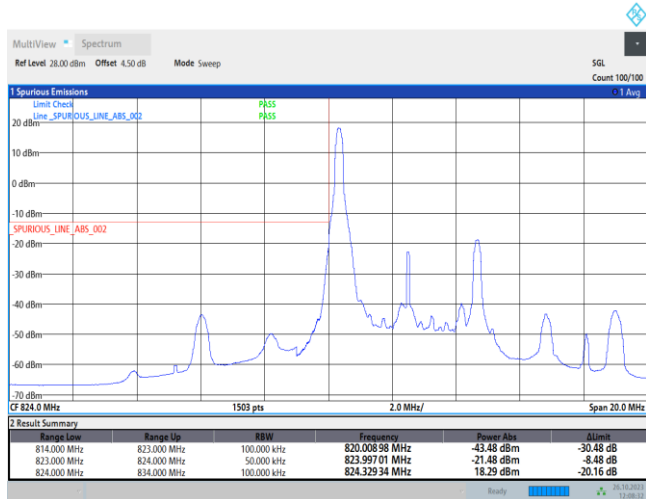


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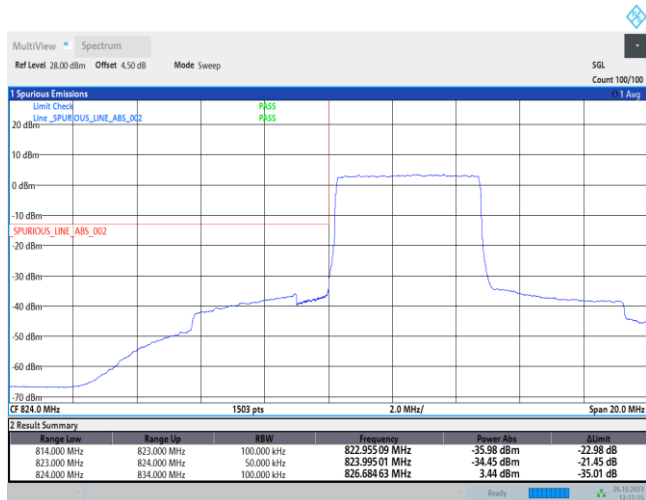
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Band5-5MHz-QPSK-20425-1RB#0



12:08:32 26.10.2023

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



12:11:16 26.10.2023

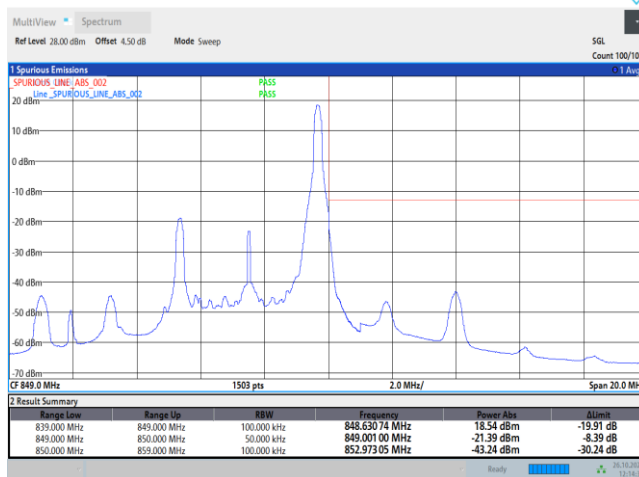


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Band5-5MHz-QPSK-20625-1RB#24



12:14:33 26.10.2023

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



12:17:17 26.10.2023

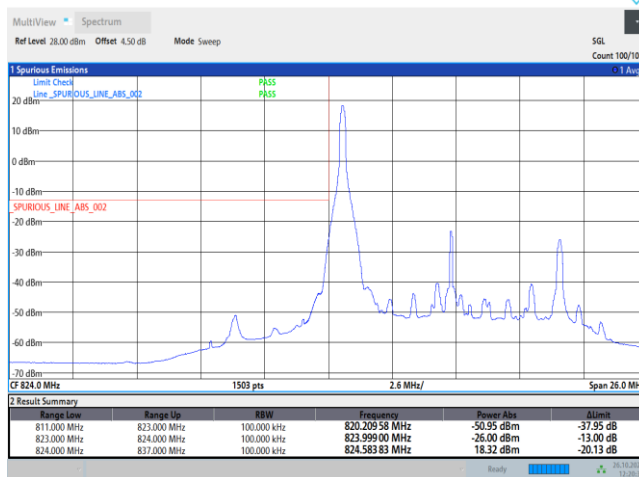


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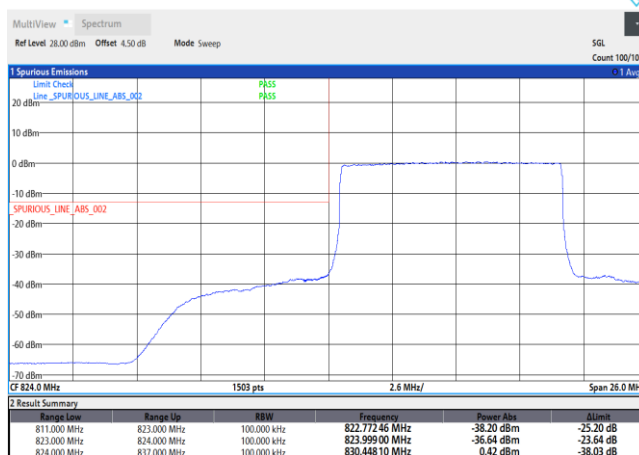
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Band5-10MHz-QPSK-20450-1RB#0



12:20:32 26.10.2023

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



12:23:16 26.10.2023

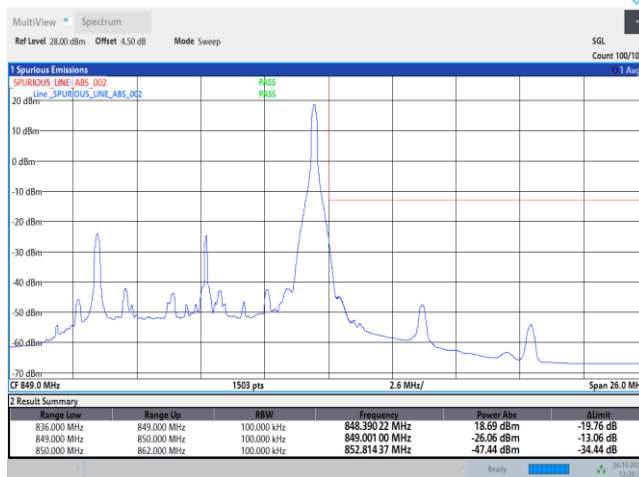


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Band5-10MHz-QPSK-20600-1RB#49



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



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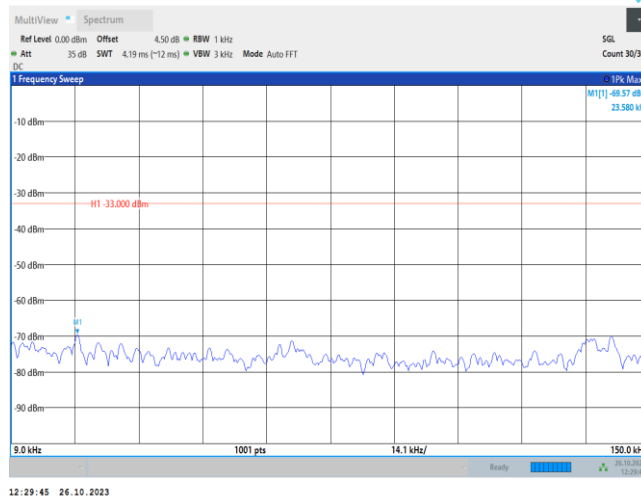
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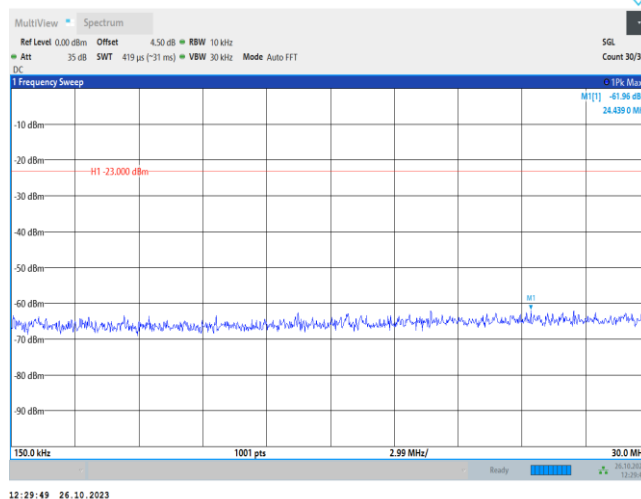
## Conducted Spurious Emission

### Test Graphs

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



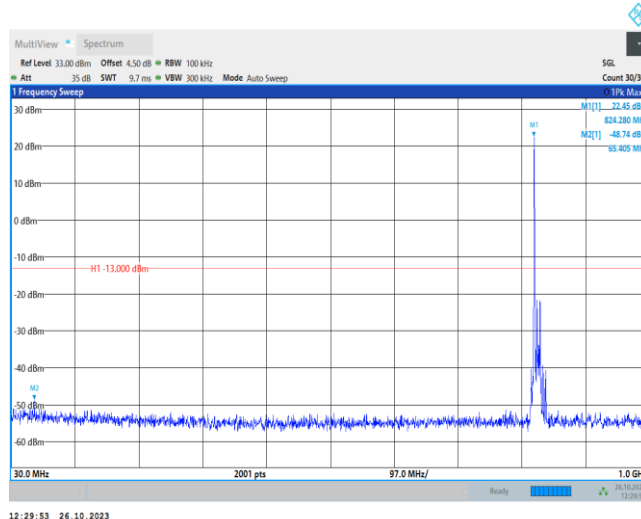
Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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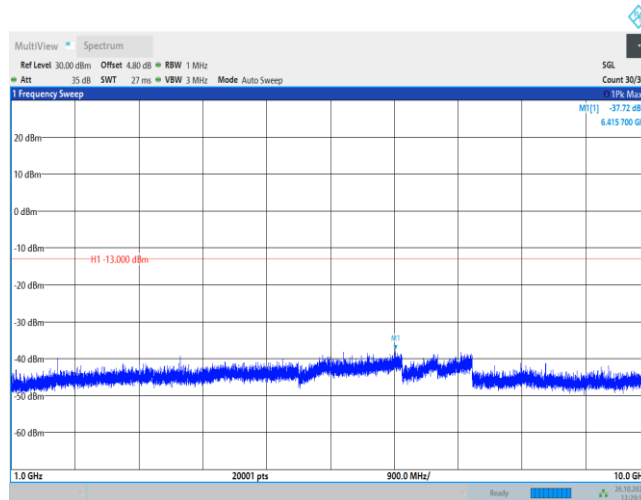
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



12:29:53 26.10.2023

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



12:29:57 26.10.2023

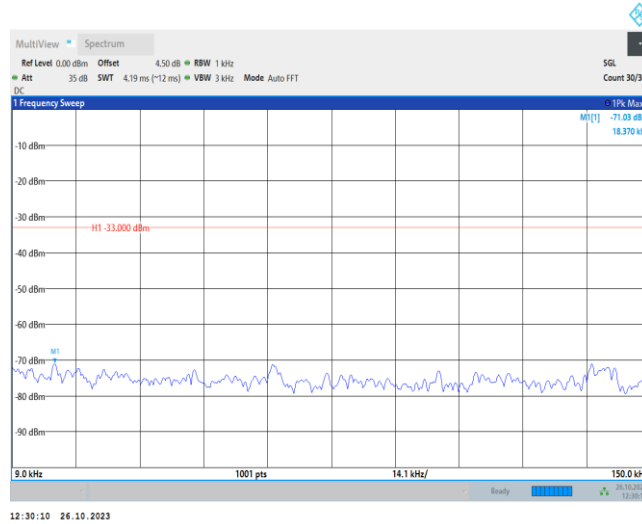


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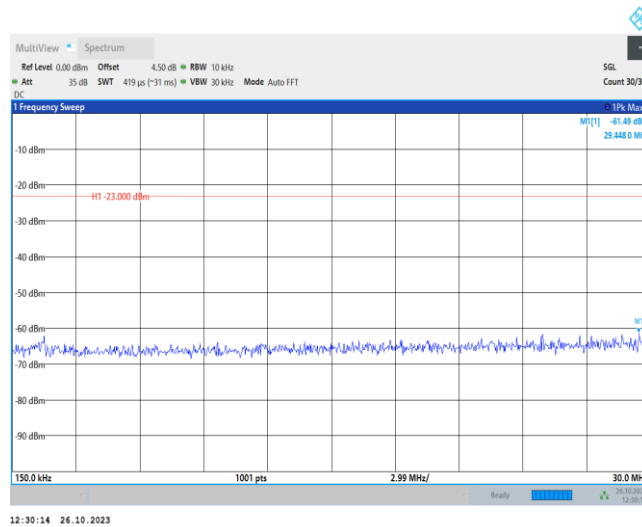
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



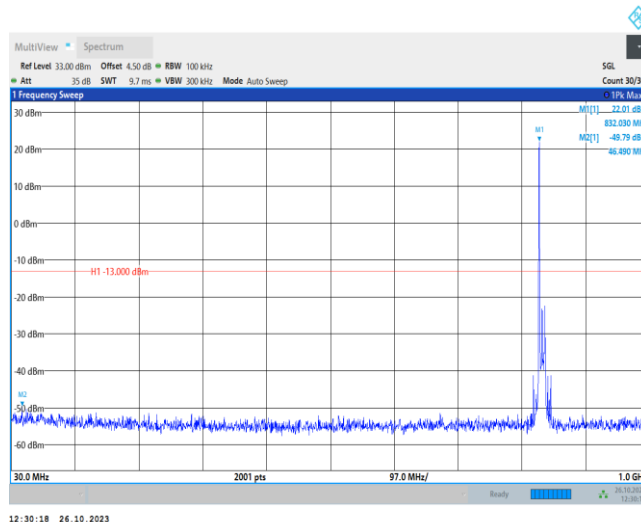
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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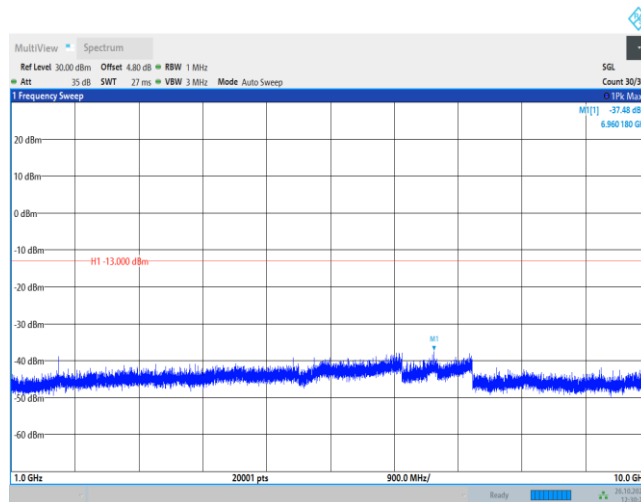
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



12:30:18 26.10.2023

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



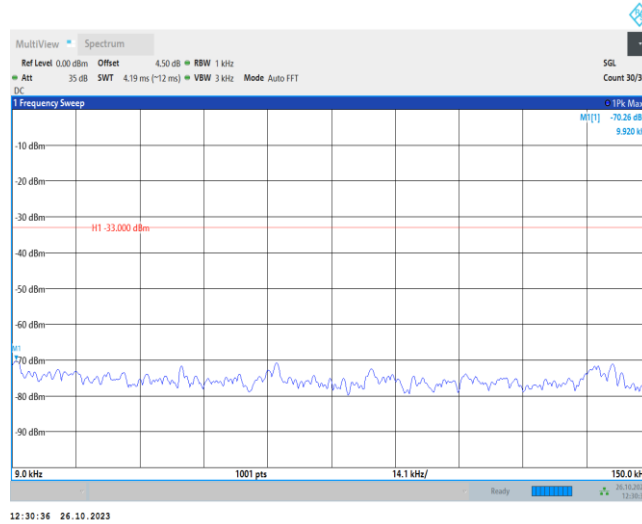
12:30:23 26.10.2023



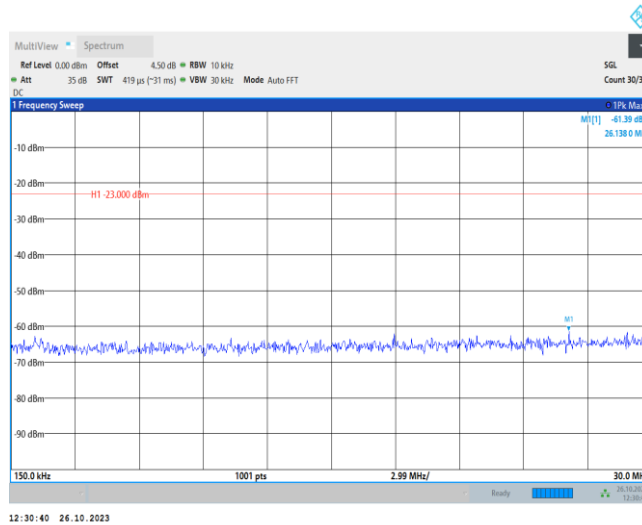
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



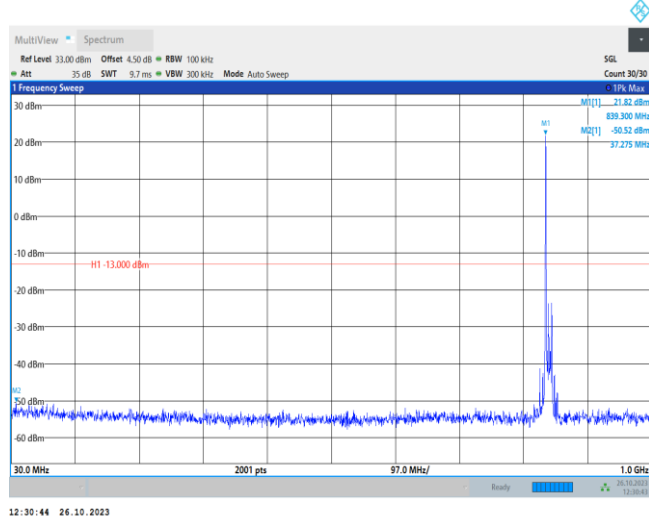
Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



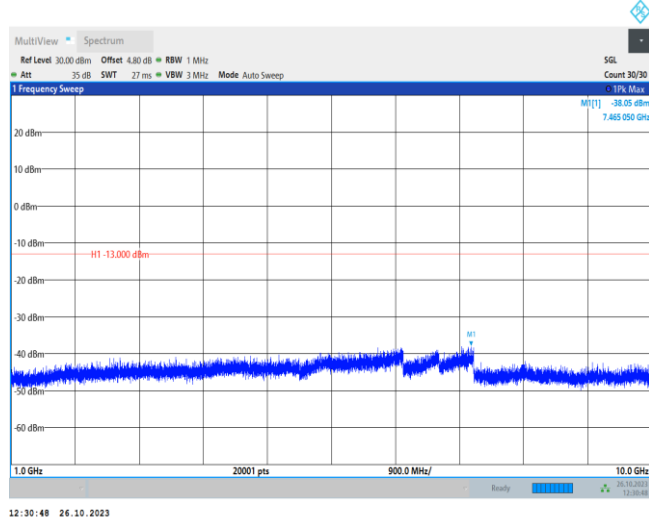
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 5\_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	80.86	-49.83	25.30	-38.93	-13.00	25.93	Horizontal
2	2473.77	61.53	-49.05	27.27	-55.51	-13.00	42.51	Horizontal
3	3298.36	47.27	-48.63	28.62	-68.00	-13.00	55.00	Horizontal
4	4122.95	47.72	-48.28	29.62	-66.20	-13.00	53.20	Horizontal
5	4947.54	44.64	-48.07	31.37	-67.32	-13.00	54.32	Horizontal
6	5772.13	44.62	-47.66	32.75	-65.54	-13.00	52.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	67.11	-49.83	25.30	-52.68	-13.00	39.68	Vertical
2	2473.77	55.24	-49.05	27.27	-61.80	-13.00	48.80	Vertical
3	3298.36	45.20	-48.63	28.62	-70.07	-13.00	57.07	Vertical
4	4122.95	44.40	-48.28	29.62	-69.52	-13.00	56.52	Vertical
5	4947.54	43.73	-48.07	31.37	-68.23	-13.00	55.23	Vertical
6	5772.13	43.80	-47.66	32.75	-66.36	-13.00	53.36	Vertical



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Test Band = LTE Band 5\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4160.4444	49.71	-48.32	29.69	-64.18	-13.00	51.18	Horizontal
2	1664.18	77.25	-49.79	25.36	-42.45	-13.00	29.45	Horizontal
3	2496.27	58.06	-48.92	27.30	-58.82	-13.00	45.82	Horizontal
4	3328.36	49.22	-48.65	28.63	-66.06	-13.00	53.06	Horizontal
5	4992.54	44.53	-47.97	31.48	-67.22	-13.00	54.22	Horizontal
6	5824.63	45.27	-47.55	32.76	-64.77	-13.00	51.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	62.12	-49.79	25.36	-57.58	-13.00	44.58	Vertical
2	2496.27	51.46	-48.92	27.30	-65.42	-13.00	52.42	Vertical
3	3328.36	46.42	-48.65	28.63	-68.86	-13.00	55.86	Vertical
4	4160.45	43.85	-48.32	29.69	-70.04	-13.00	57.04	Vertical
5	4992.54	43.96	-47.97	31.48	-67.79	-13.00	54.79	Vertical
6	5824.63	43.82	-47.55	32.76	-66.22	-13.00	53.22	Vertical



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**Test Band = LTE Band 5\_ TM1**  
**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1111	77.20	-49.76	25.42	-42.41	-13.00	29.41	Horizontal
2	2518.6667	60.79	-48.95	27.34	-56.08	-13.00	43.08	Horizontal
3	5876.8889	45.36	-47.18	32.78	-64.31	-13.00	51.31	Horizontal
4	3358.36	46.94	-48.67	28.64	-68.34	-13.00	55.34	Horizontal
5	4197.95	47.48	-48.36	29.76	-66.38	-13.00	53.38	Horizontal
6	5037.54	44.29	-47.94	31.59	-67.32	-13.00	54.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1111	64.61	-49.76	25.42	-55.00	-13.00	42.00	Vertical
2	2518.6667	54.59	-48.95	27.34	-62.28	-13.00	49.28	Vertical
3	3358.36	45.03	-48.67	28.64	-70.25	-13.00	57.25	Vertical
4	4197.95	43.71	-48.36	29.76	-70.15	-13.00	57.15	Vertical
5	5037.54	44.05	-47.94	31.59	-67.56	-13.00	54.56	Vertical
6	5887.13	43.30	-47.11	32.78	-66.29	-13.00	53.29	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	-24.90	-0.029767	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-11.80	-0.014106	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-28.60	-0.034190	±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	-20.60	-0.024626	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-16.20	-0.019366	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-6.60	-0.007890	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-20.40	-0.024387	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-18.30	-0.021877	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-23.50	-0.028093	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-17.90	-0.021399	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-14.10	-0.016856	±2.5	PASS

---End of Attachment---



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