

Report No.: SEWM2312000502RG01

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Appendix B.9

LTE Band 14



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t (86-512) 62992980 sgs.china@sgs.com

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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
Band14	5MHz	QPSK	23305	1RB#0	23.62	18.24	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.88	18.50	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.58	18.20	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.67	17.29	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.60	18.22	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.84	18.46	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.55	18.17	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.66	17.28	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.60	18.22	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.77	18.39	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.61	18.23	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.66	17.28	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.05	17.67	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.79	17.41	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.75	16.37	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.03	17.65	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.85	17.47	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.74	16.36	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.84	17.46	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.97	17.59	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.80	17.42	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.73	16.35	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.85	16.47	34.77	PASS



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Band14	5MHz	64QAM	23305	1RB#12	22.15	16.77	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.84	16.46	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.74	15.36	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.79	16.41	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.08	16.70	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.78	16.40	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.72	15.34	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.83	16.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.03	16.65	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.76	16.38	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.72	15.34	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.63	18.25	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.76	18.38	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.69	18.31	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.73	17.35	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.99	17.61	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.08	17.70	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.93	17.55	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.82	16.44	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.89	16.51	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.01	16.63	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.86	16.48	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.77	15.39	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.50	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.20	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.60	13	PASS



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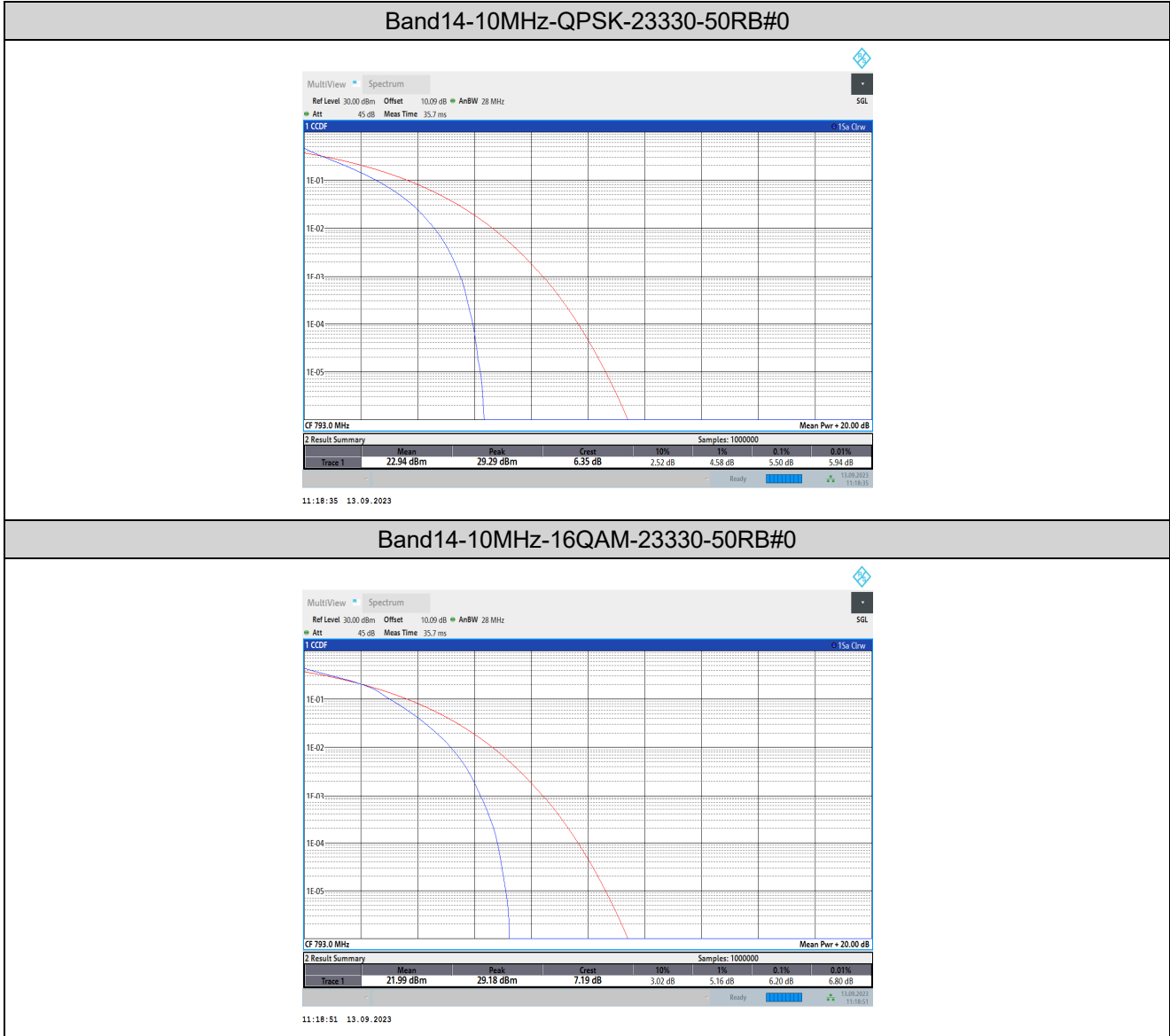
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Test Graphs

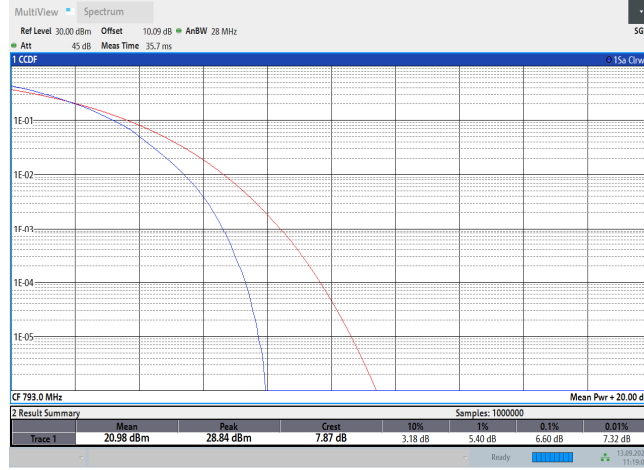


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Band14-10MHz-64QAM-23330-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.476	5.03	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.477	5.02	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.475	5.03	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.474	5.06	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.474	5.18	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.469	5.05	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.485	5.05	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.486	5.06	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.485	5.01	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.951	9.87	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.933	9.93	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.948	9.93	PASS



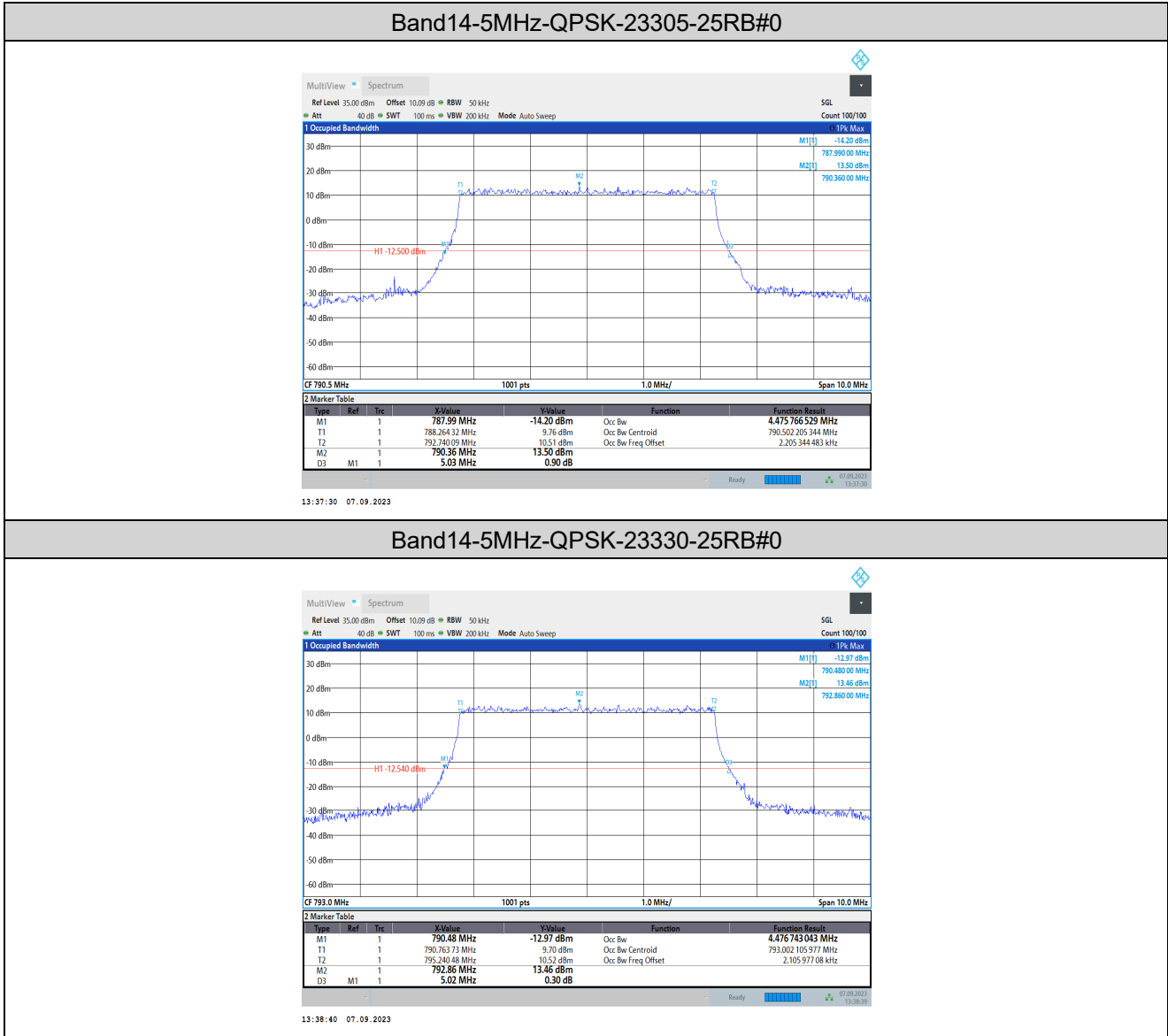
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Test Graphs

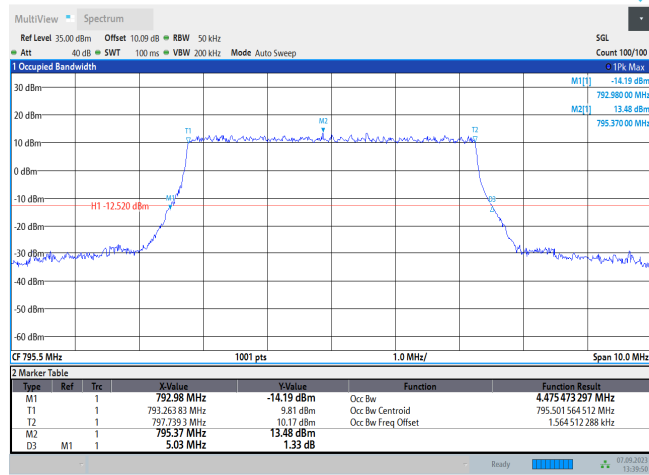


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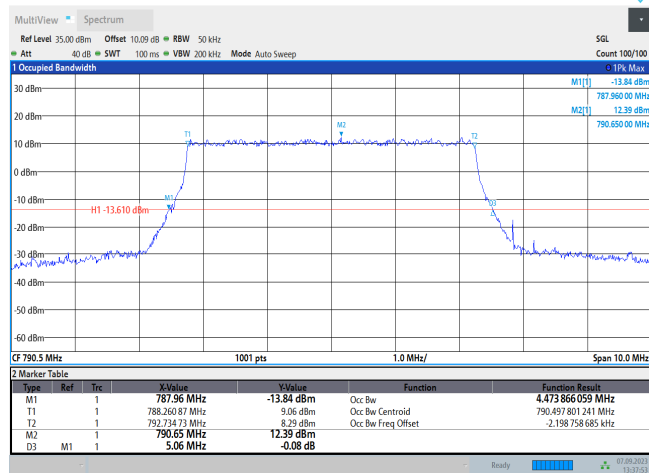
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Band14-5MHz-QPSK-23355-25RB#0



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Band14-5MHz-16QAM-23305-25RB#0



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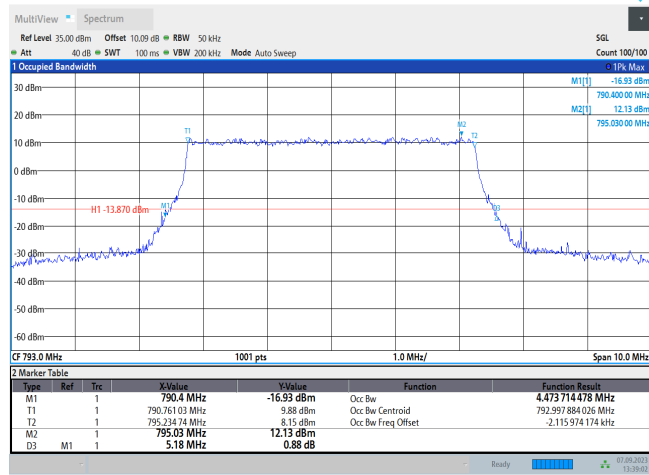


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Band14-5MHz-16QAM-23330-25RB#0



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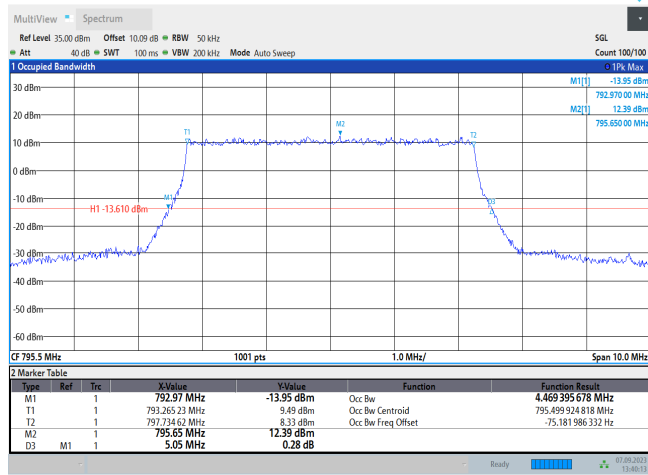


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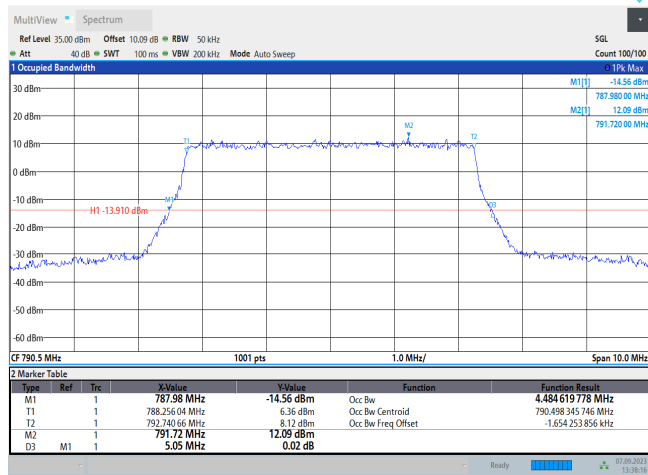
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Band14-5MHz-16QAM-23355-25RB#0



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Band14-5MHz-64QAM-23305-25RB#0



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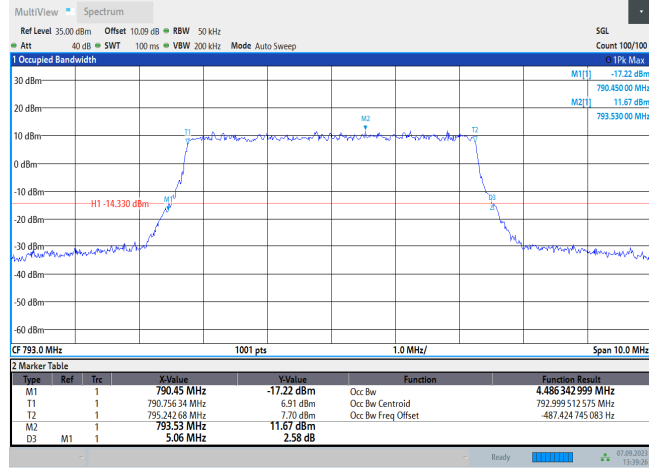


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Band14-5MHz-64QAM-23330-25RB#0



13:39:27 07.09.2023

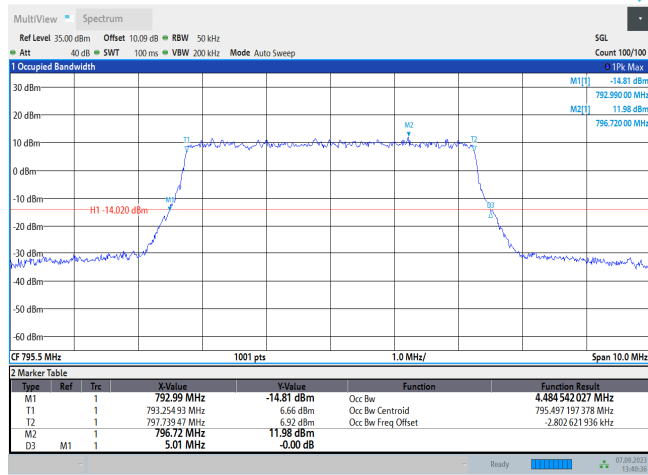


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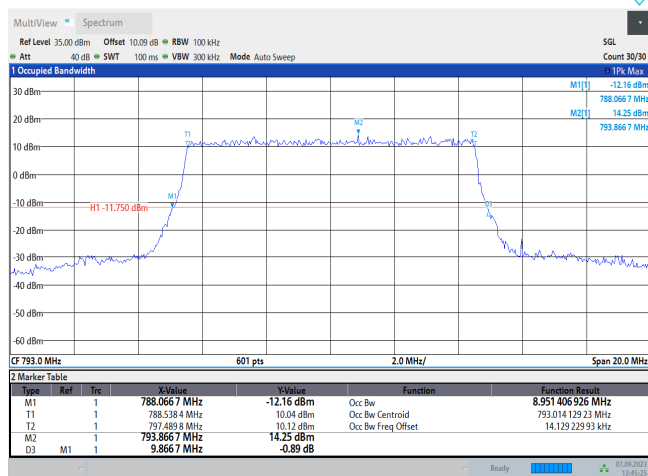
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Band14-5MHz-64QAM-23355-25RB#0



13:40:37 07.09.2023

Band14-10MHz-QPSK-23330-50RB#0



13:45:25 07.09.2023

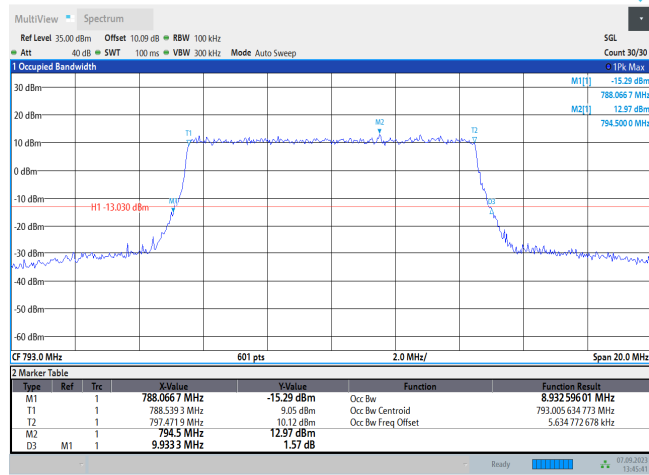


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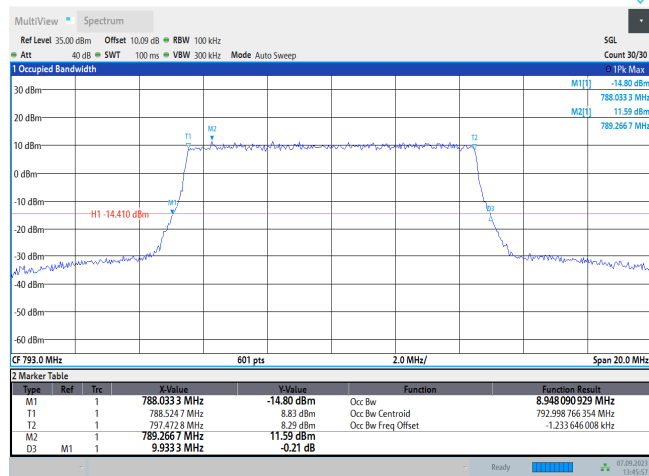
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Band14-10MHz-16QAM-23330-50RB#0



13:45:41 07.09.2023

Band14-10MHz-64QAM-23330-50RB#0



13:45:58 07.09.2023



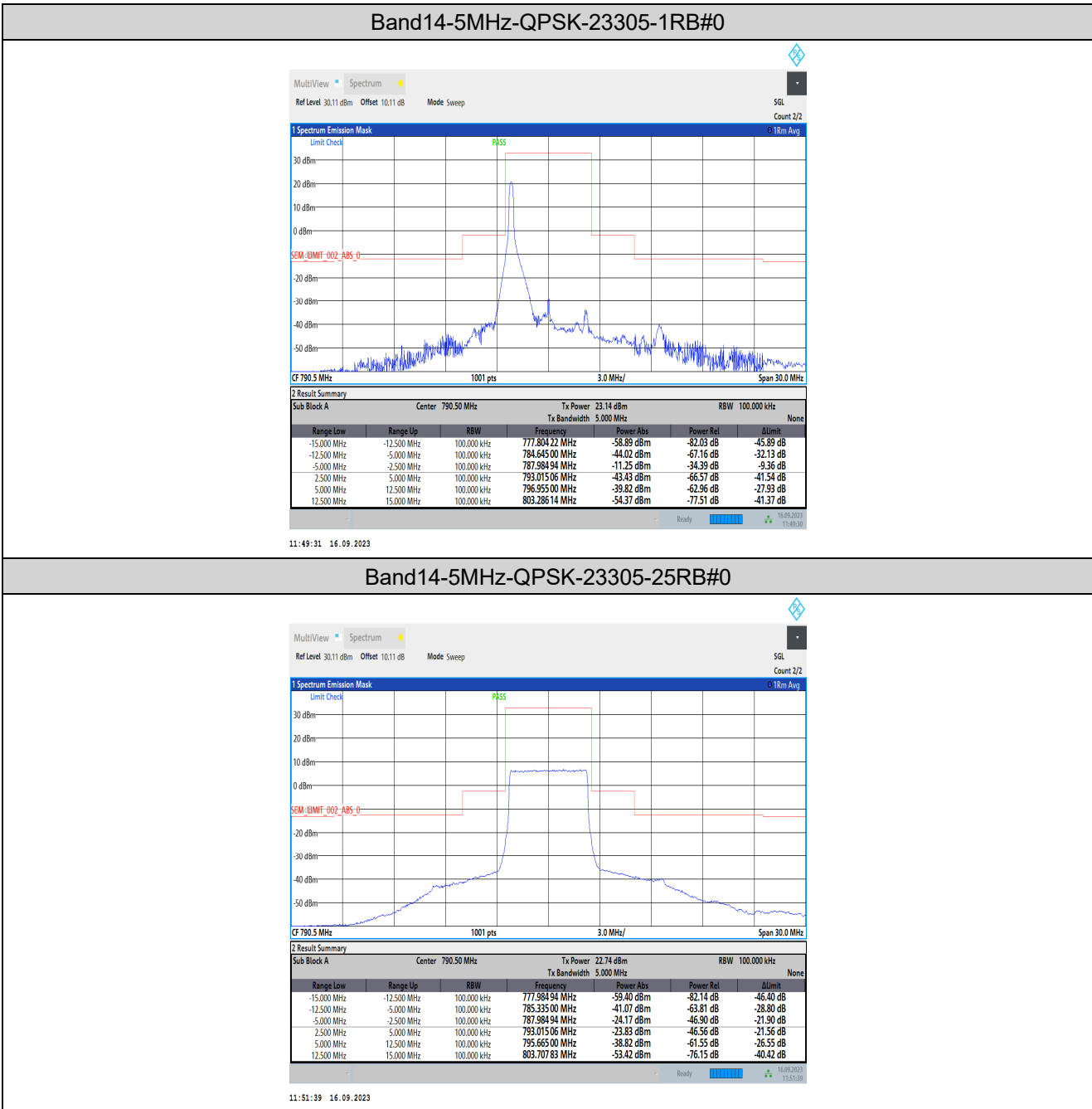
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Emission_mask

Test Graphs

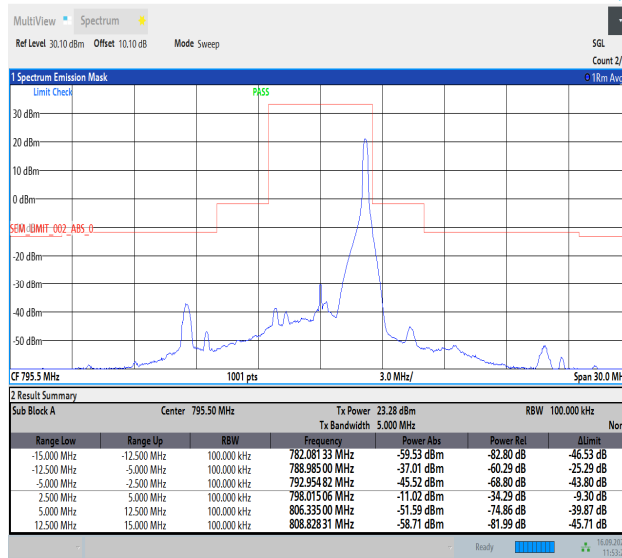


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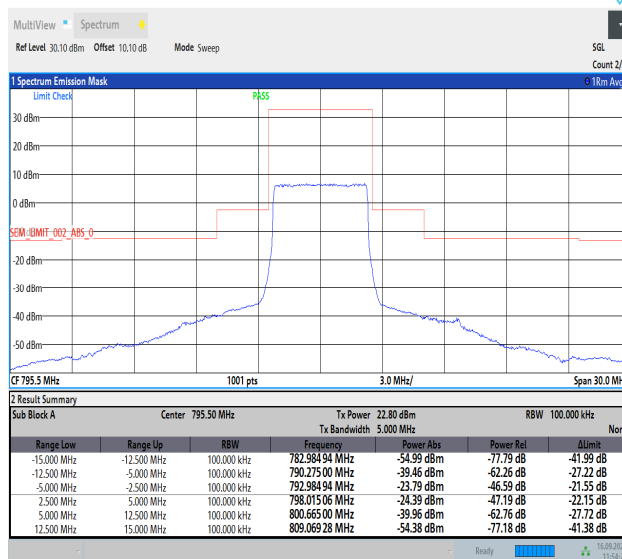
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Band14-5MHz-QPSK-23355-1RB#24



11:53:29 16.09.2023

Band14-5MHz-QPSK-23355-25RB#0



11:54:22 16.09.2023

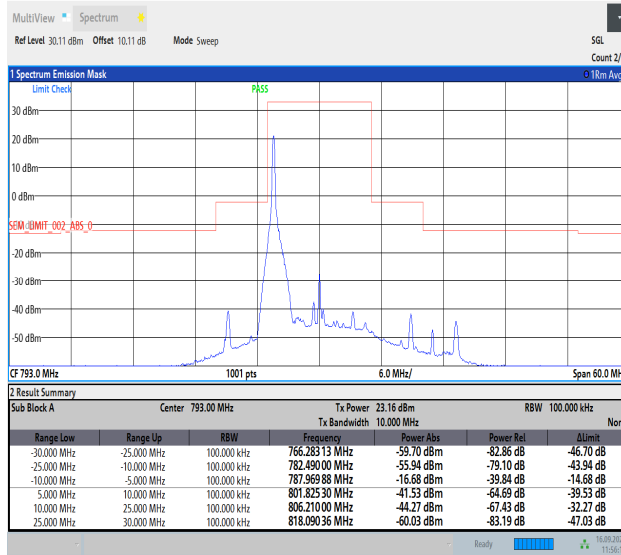


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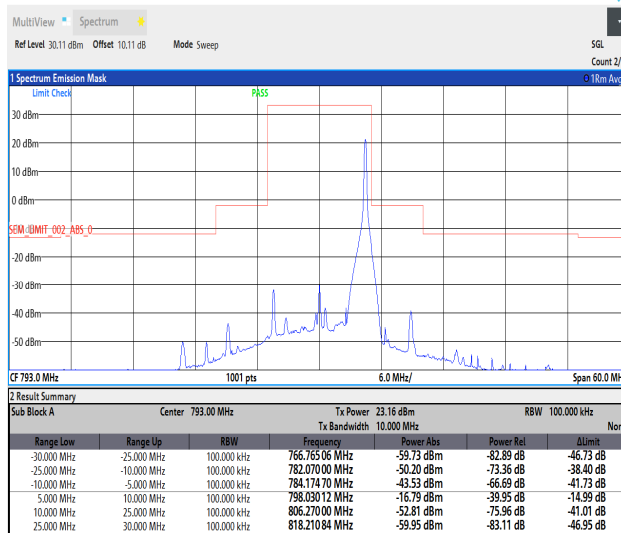
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Band14-10MHz-QPSK-23330-1RB#0



11:56:15 16.09.2023

Band14-10MHz-QPSK-23330-1RB#49



11:57:09 16.09.2023

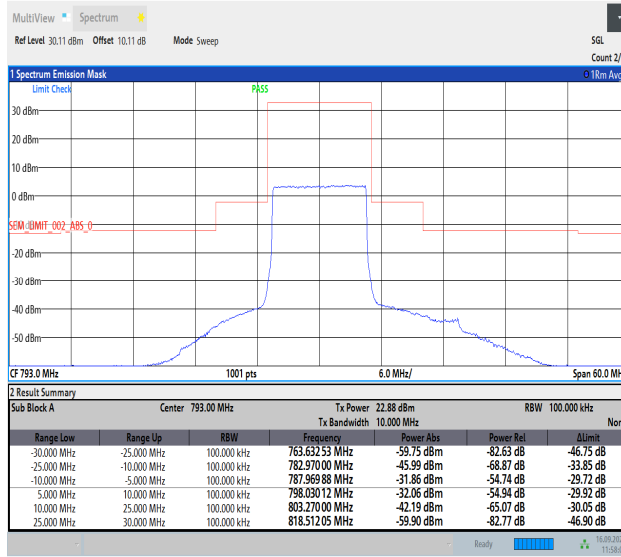


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Band14-10MHz-QPSK-23330-50RB#0



11:58:04 16.09.2023



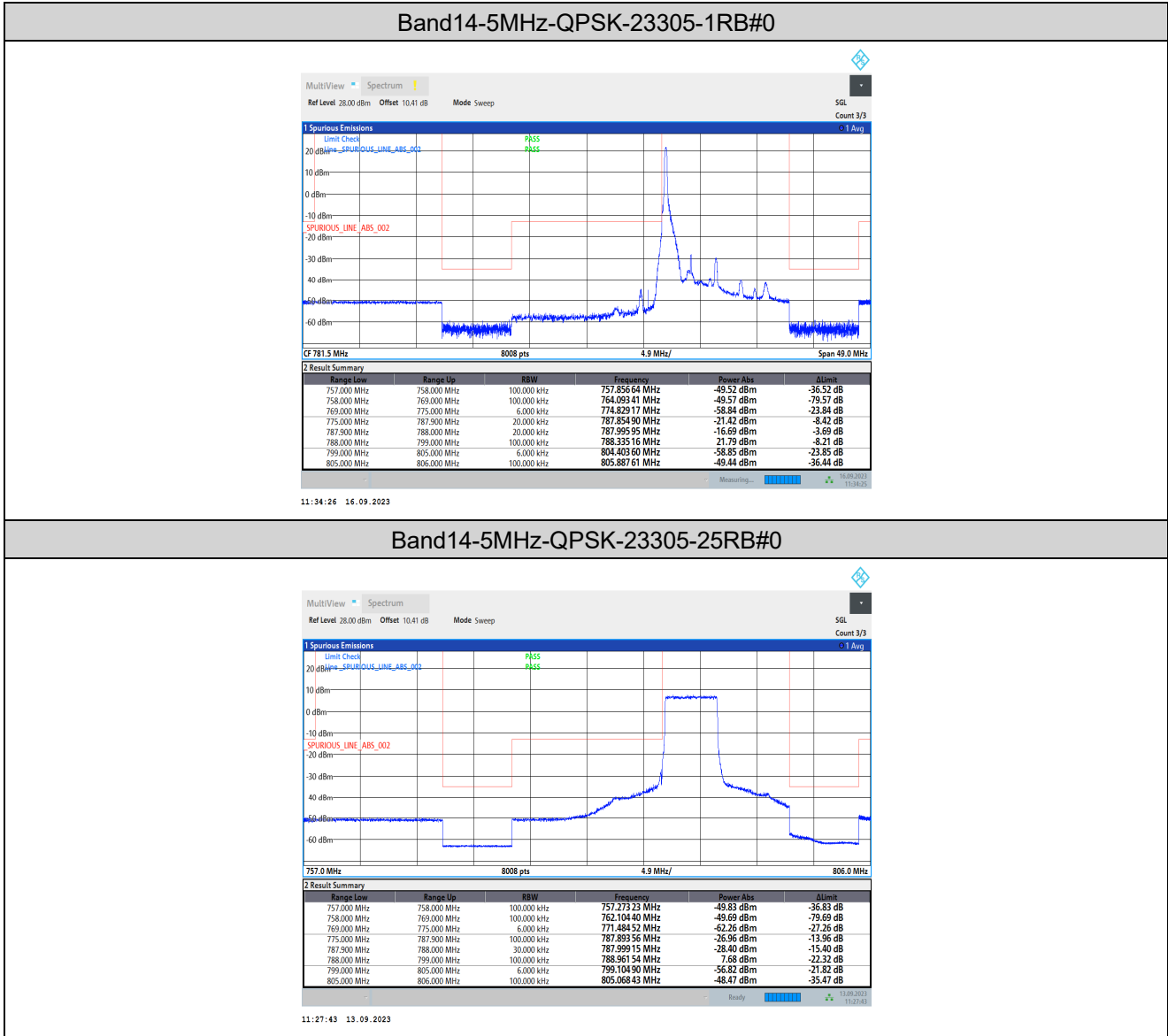
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Band Edge

Test Graphs

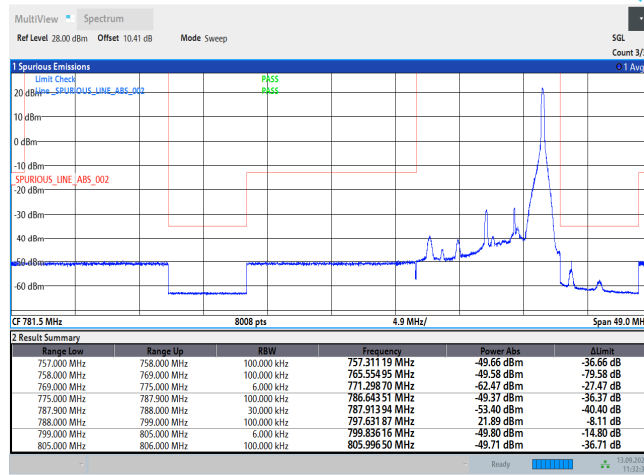


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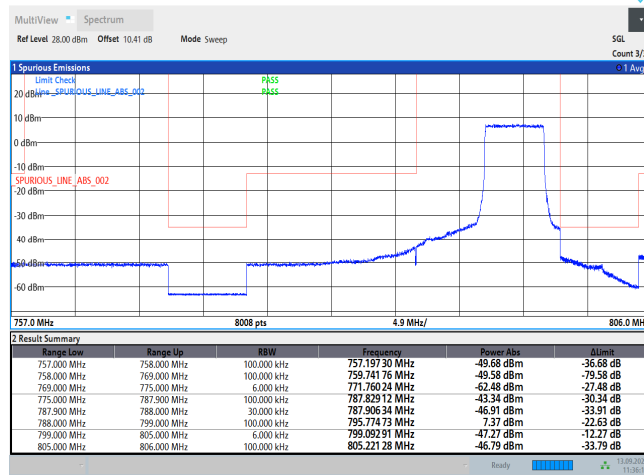
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Band14-5MHz-QPSK-23355-1RB#24



11:32:32 13.09.2023

Band14-5MHz-QPSK-23355-25RB#0



11:36:17 13.09.2023

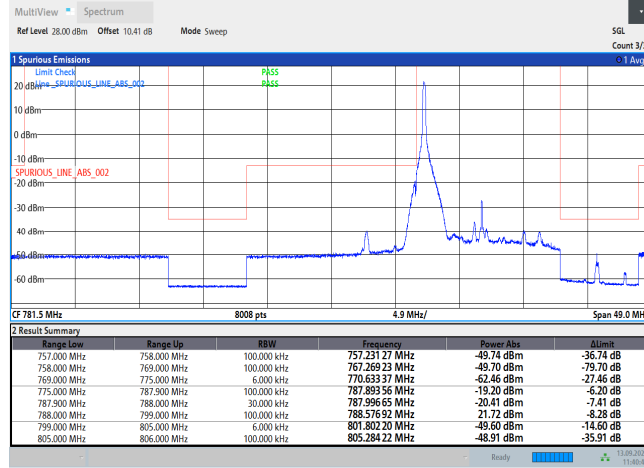


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Band14-10MHz-QPSK-23330-1RB#0



11:40:46 13.09.2023

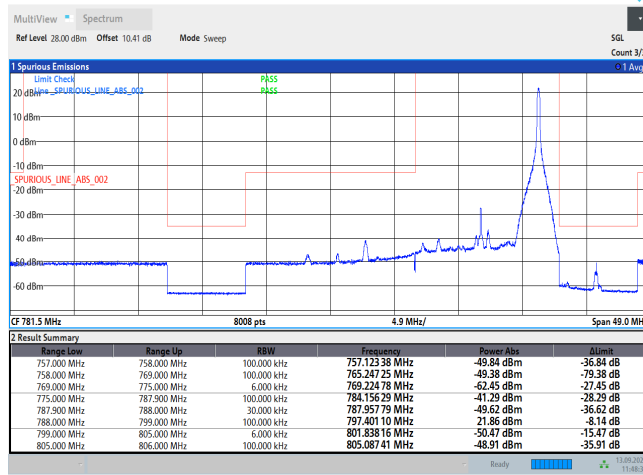


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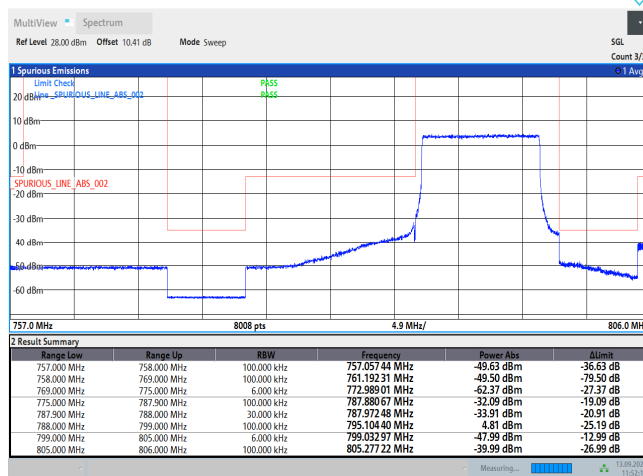
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Band14-10MHz-QPSK-23330-1RB#49



11:48:38 13.09.2023

Band14-10MHz-QPSK-23330-50RB#0



11:52:19 13.09.2023



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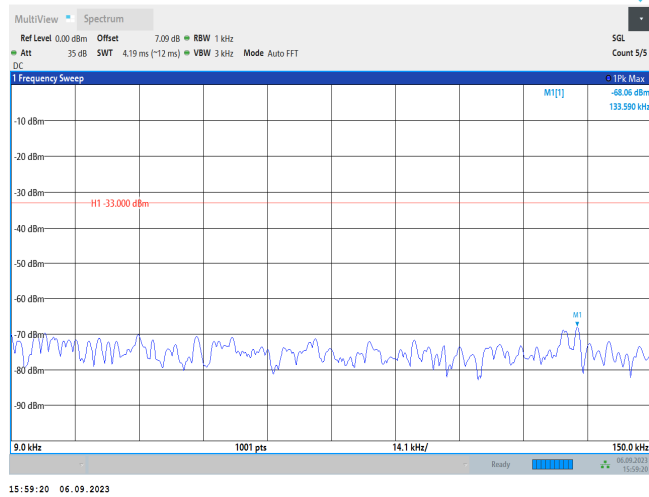
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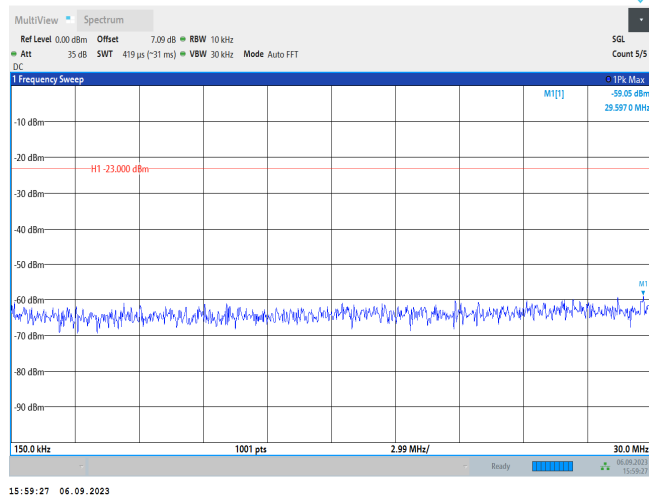
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



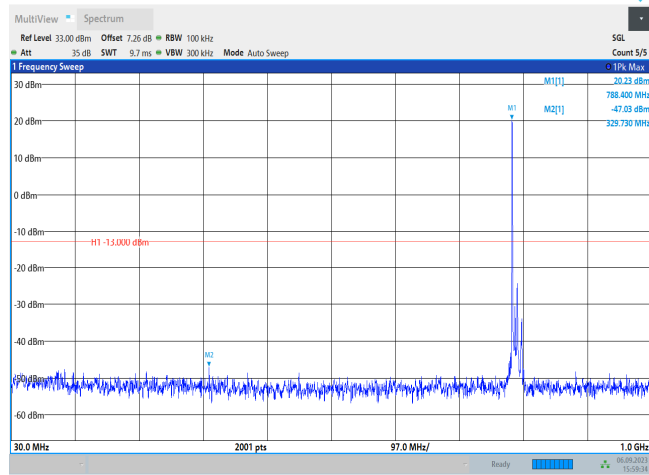
Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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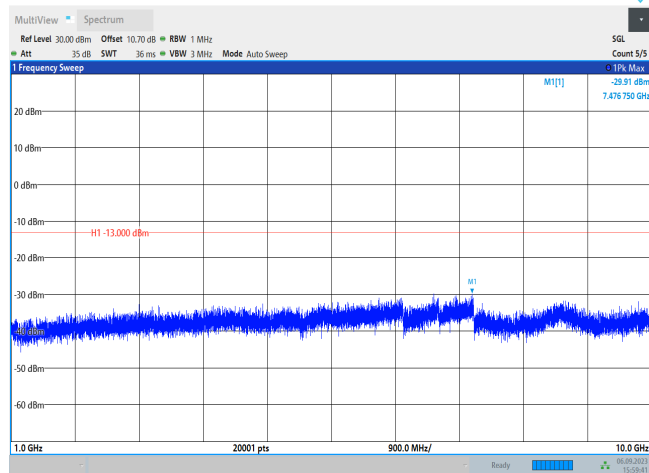
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



15:59:35 06.09.2023

Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



15:59:42 06.09.2023



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Field Strength of Spurious Radiation(SKU3):

Test Band = LTE Band 14 10M_ TM1
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.18	64.04	-49.91	25.01	-56.12	-40.00	26.12	Horizontal
2	2365.77	67.42	-49.36	27.14	-50.06	-13.00	37.06	Horizontal
3	3154.36	45.04	-48.76	28.56	-70.41	-13.00	57.41	Horizontal
4	3942.95	45.05	-48.40	29.32	-69.29	-13.00	56.29	Horizontal
5	4731.54	42.84	-48.06	30.86	-69.63	-13.00	56.63	Horizontal
6	5520.13	43.64	-47.45	32.70	-66.36	-13.00	53.36	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.18	57.43	-49.91	25.01	-62.73	-40.00	22.73	Vertical
2	2365.77	67.42	-49.36	27.14	-50.06	-13.00	37.06	Vertical
3	3154.36	45.04	-48.76	28.56	-70.41	-13.00	57.41	Vertical
4	3942.95	48.96	-48.40	29.32	-65.38	-13.00	52.38	Vertical
5	4731.54	44.44	-48.06	30.86	-68.03	-13.00	55.03	Vertical
6	5520.13	44.26	-47.45	32.70	-65.74	-13.00	52.74	Vertical



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Test Band = LTE Band 14 5M_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1587.1111	51.25	-49.92	25.05	-68.88	-40.00	28.88	Horizontal
2	2380	56.58	-49.41	27.16	-60.93	-13.00	47.93	Horizontal
3	3163.36	43.90	-48.73	28.57	-71.52	-13.00	58.52	Horizontal
4	3954.2	44.59	-48.39	29.34	-69.72	-13.00	56.72	Horizontal
5	4745.04	42.93	-48.05	30.89	-69.49	-13.00	56.49	Horizontal
6	5535.88	43.56	-47.49	32.71	-66.48	-13.00	53.48	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2379.1111	53.66	-49.41	27.15	-63.85	-13.00	20.85	Vertical
2	1581.68	45.13	-49.91	25.03	-75.01	-40.00	35.01	Vertical
3	3163.36	44.03	-48.73	28.57	-71.39	-13.00	58.39	Vertical
4	3954.2	43.91	-48.39	29.34	-70.40	-13.00	57.40	Vertical
5	4745.04	42.83	-48.05	30.89	-69.59	-13.00	56.59	Vertical
6	5535.88	42.95	-47.49	32.71	-67.09	-13.00	54.09	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)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-9.31	-0.011740	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-6.58	-0.008298	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-7.14	-0.009004	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-5.91	-0.007453	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-7.27	-0.009168	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-8.90	-0.011223	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-2.79	-0.003518	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-11.12	-0.014023	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-6.47	-0.008159	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-5.25	-0.006620	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	2.46	0.003102	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-10.80	-0.013619	PASS

---End of Attachment---



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