

Report No.: SEWA2304000051RG01

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Appendix B.7

LTE Band 14



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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	23.01	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.56	22.95	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.61	23.00	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.79	22.18	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.60	22.99	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.63	23.02	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.56	22.95	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.76	22.15	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.62	23.01	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.60	22.99	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.49	22.88	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.74	22.13	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.89	22.28	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.86	22.25	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.90	22.29	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.76	21.15	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.79	22.18	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.90	22.29	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.84	22.23	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.76	21.15	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.83	22.22	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.77	22.16	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.72	22.11	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.71	21.10	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.61	23.00	34.77	PASS



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Band14	10MHz	QPSK	23330	1RB#24	23.61	23.00	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.52	22.91	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.78	22.17	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.84	22.23	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.85	22.24	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.80	22.19	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.76	21.15	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	5.08	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.92	13	PASS



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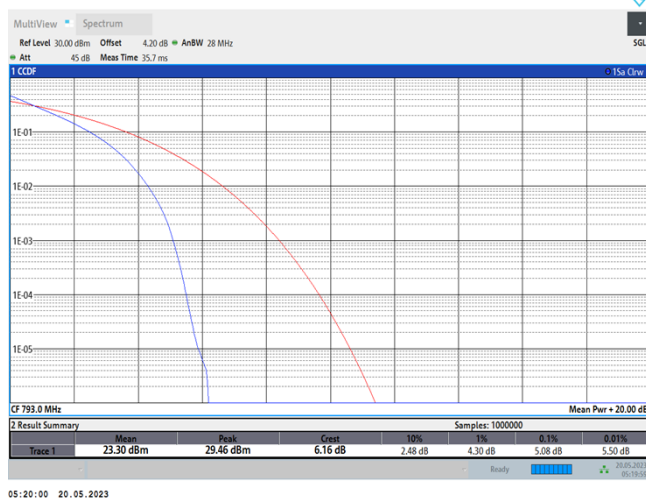
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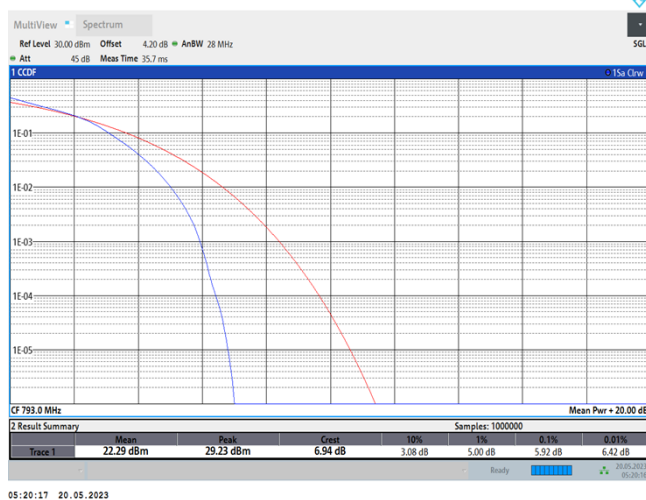
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Test Graphs

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



Band14-10MHz-16QAM-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	4.469	4.88	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.473	4.87	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.475	4.87	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.467	4.91	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.468	4.91	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.475	4.92	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.947	9.63	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.925	9.70	PASS



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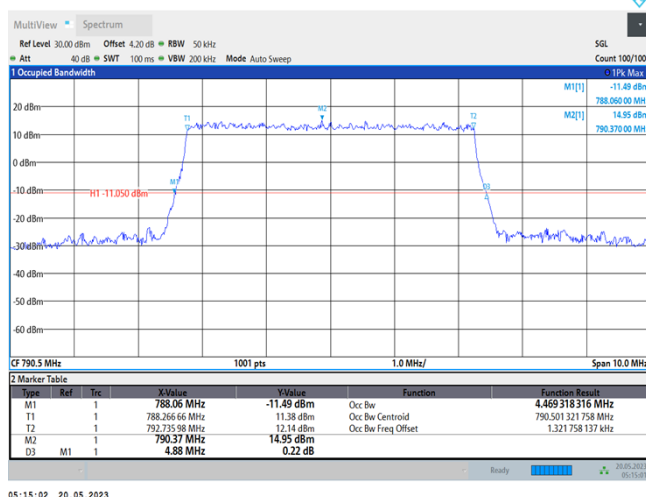
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Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



Band14-5MHz-QPSK-23330-25RB#0



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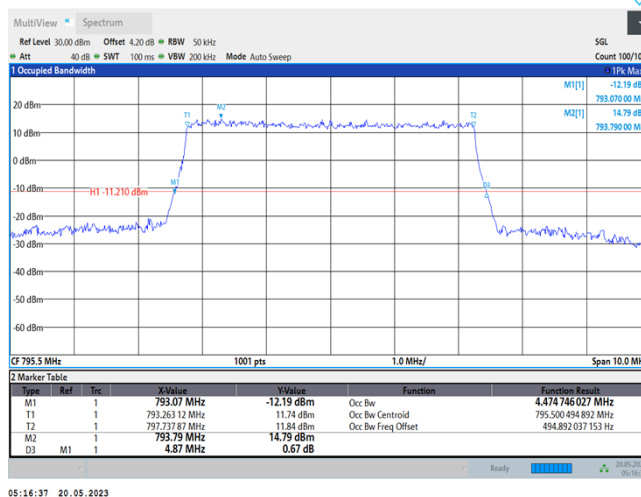
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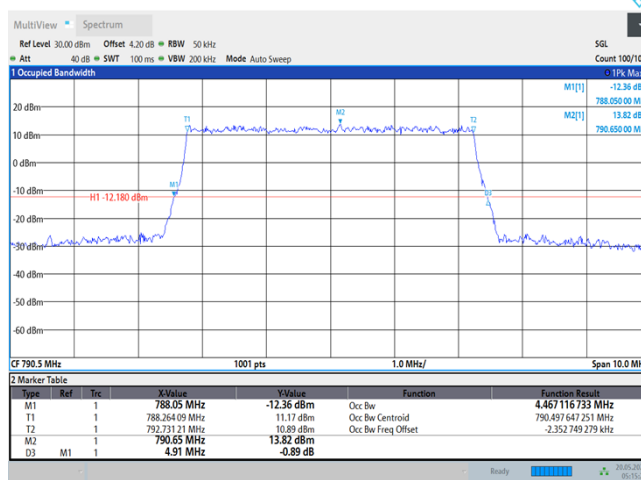
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Band14-5MHz-QPSK-23355-25RB#0



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



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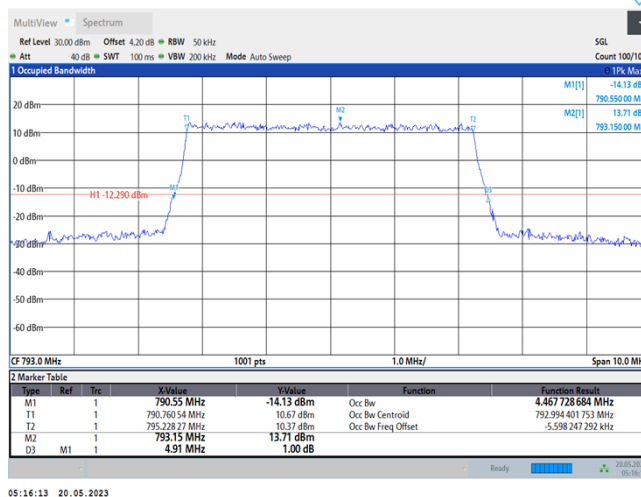
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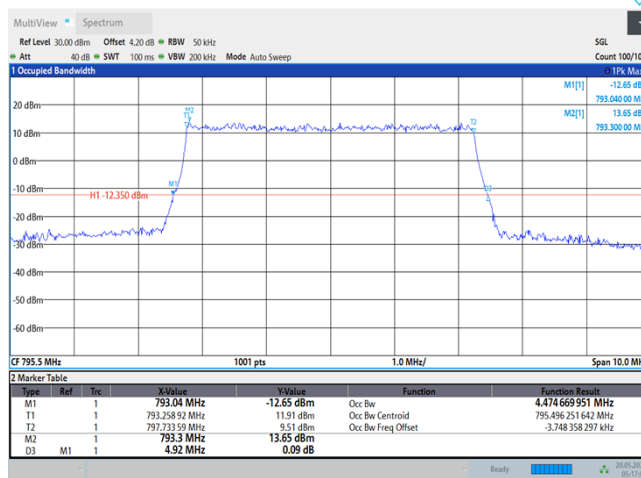
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Band14-5MHz-16QAM-23355-25RB#0



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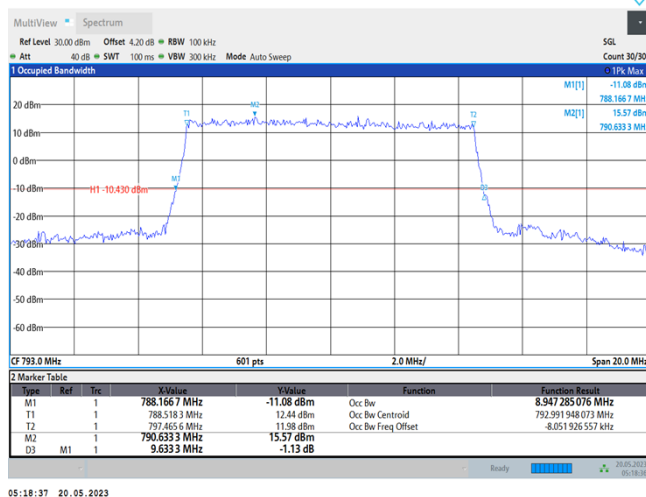
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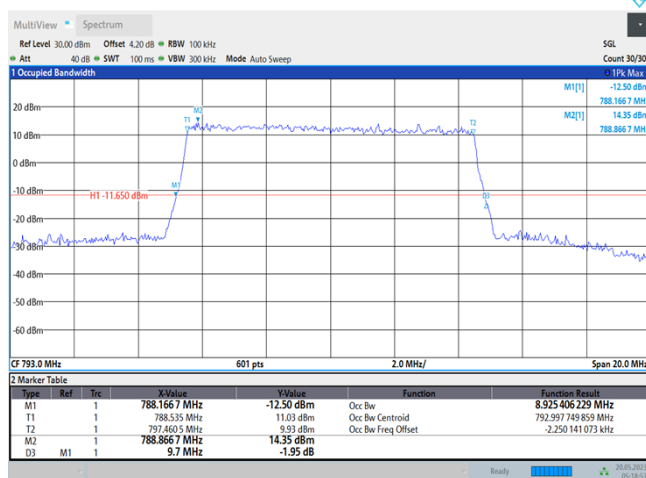
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Band14-10MHz-16QAM-23330-50RB#0



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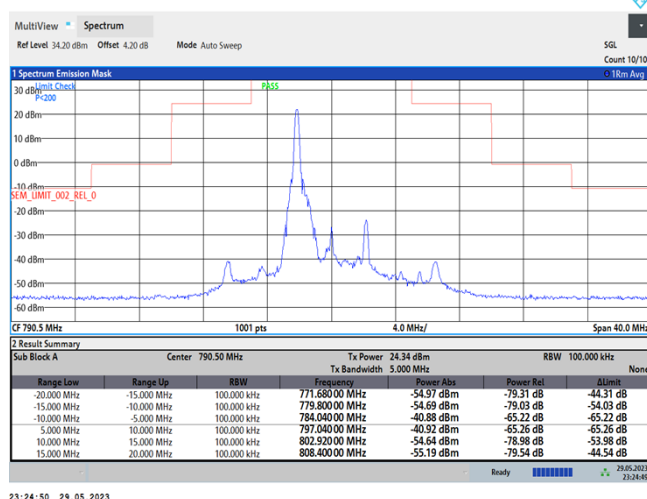
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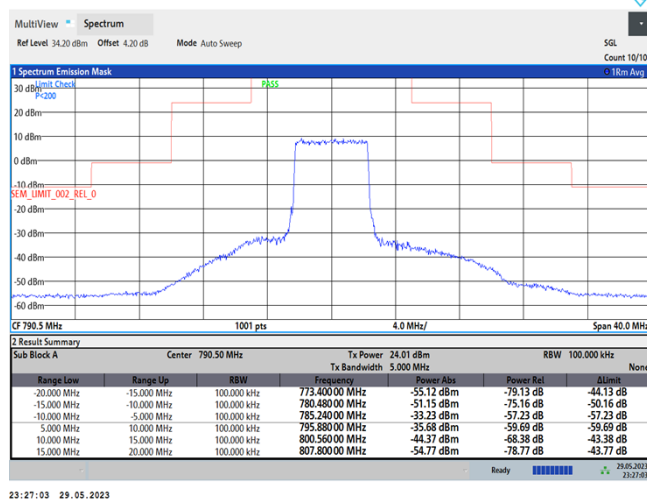
Emission Mask

Test Graphs

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Band14-5MHz-QPSK-23305-25RB#0



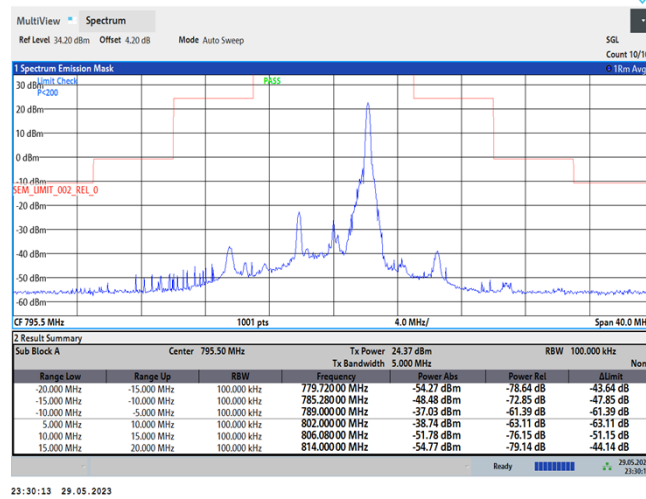
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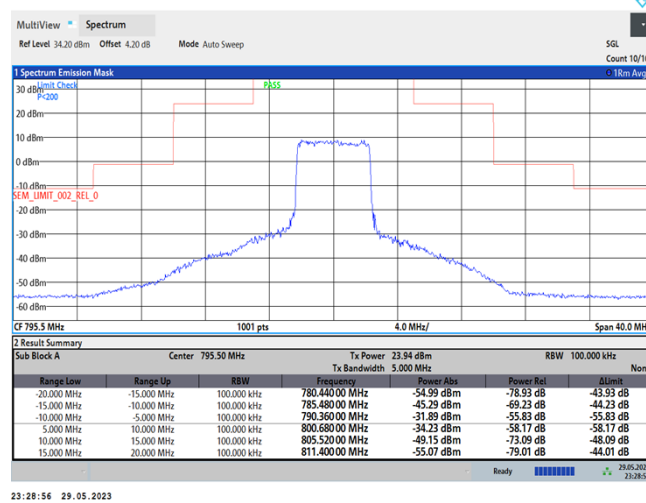
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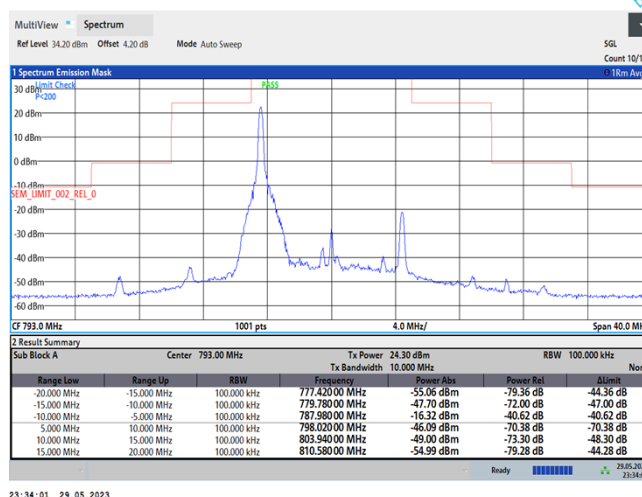
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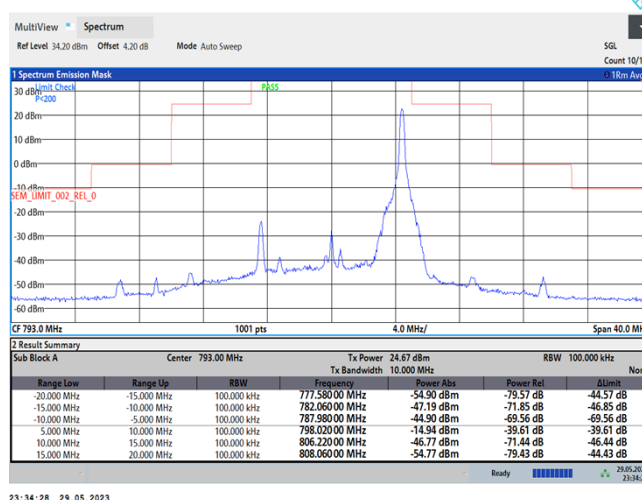
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Band14-10MHz-QPSK-23330-1RB#0



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



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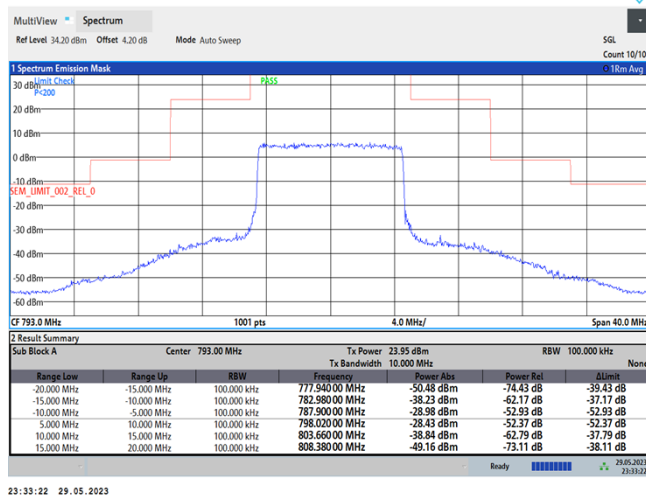
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Band14-10MHz-QPSK-23330-50RB#0



23:33:22 29.05.2023



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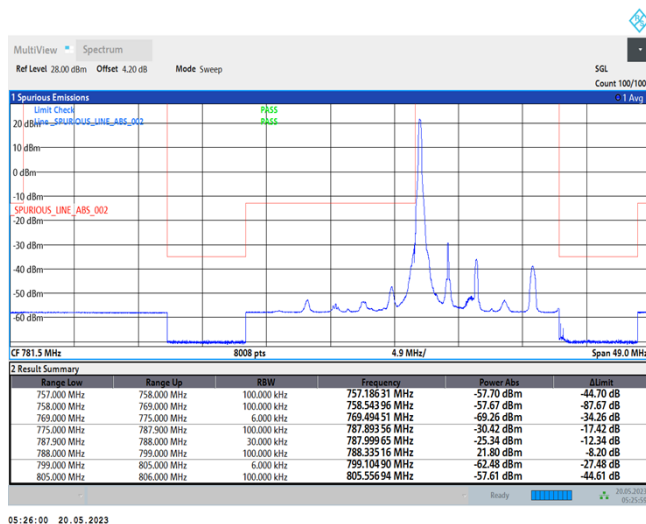
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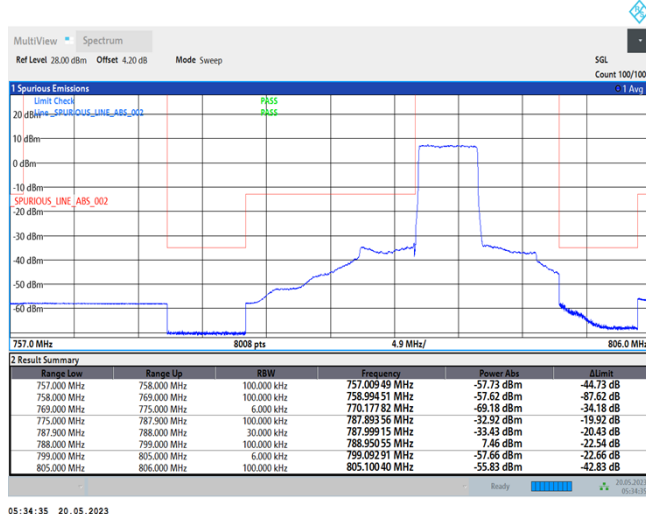
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



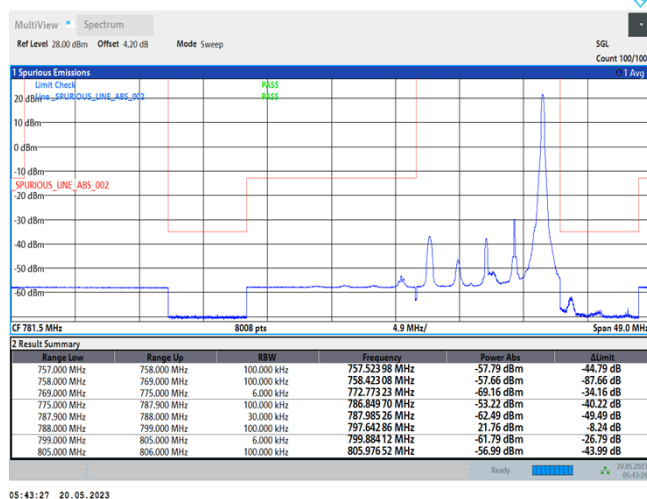
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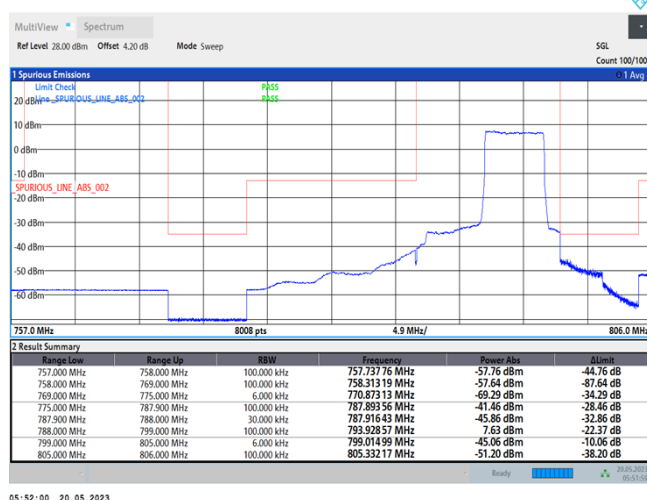
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Band14-5MHz-QPSK-23355-1RB#24



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



05:52:00 20.05.2023



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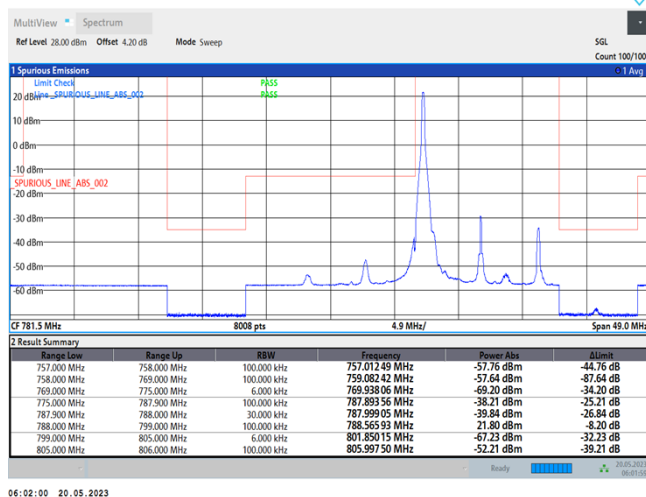
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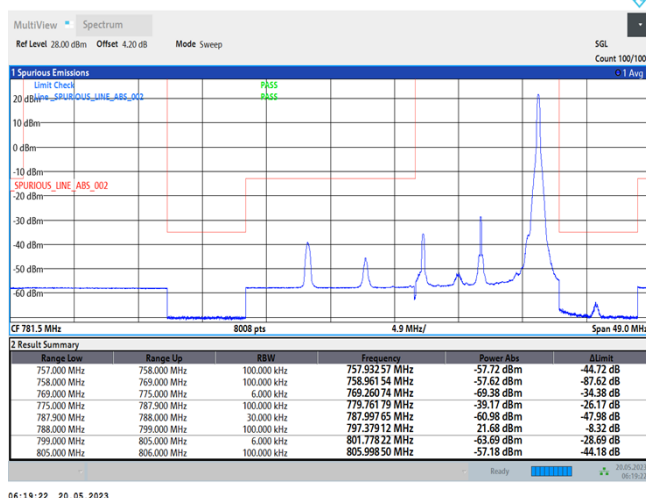
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Band14-10MHz-QPSK-23330-1RB#0



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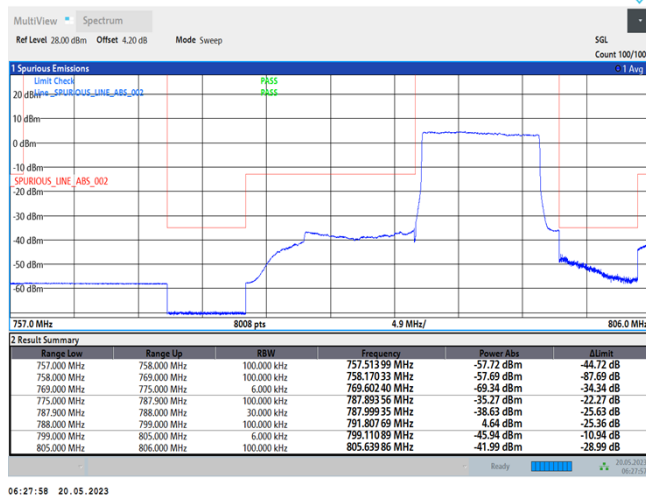
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Band14-10MHz-QPSK-23330-50RB#0



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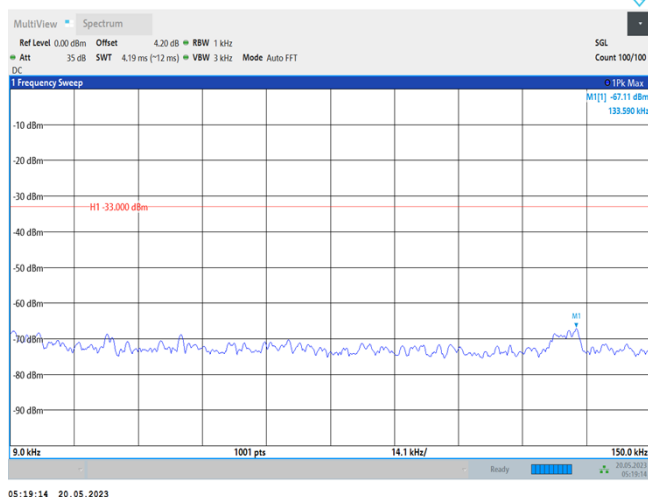
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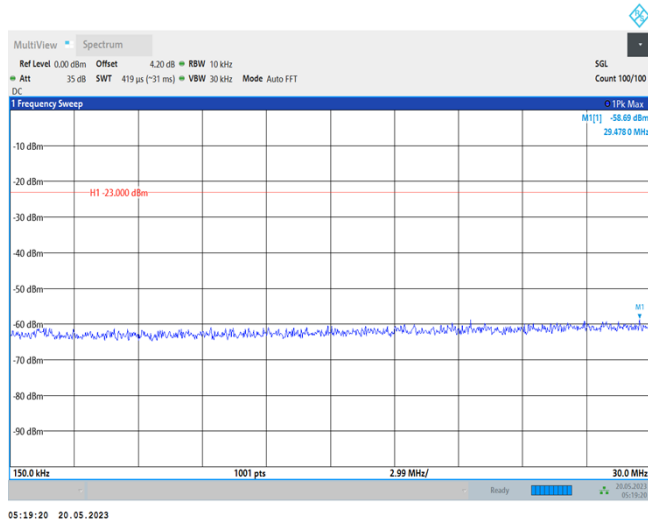
Conducted Spurious Emission

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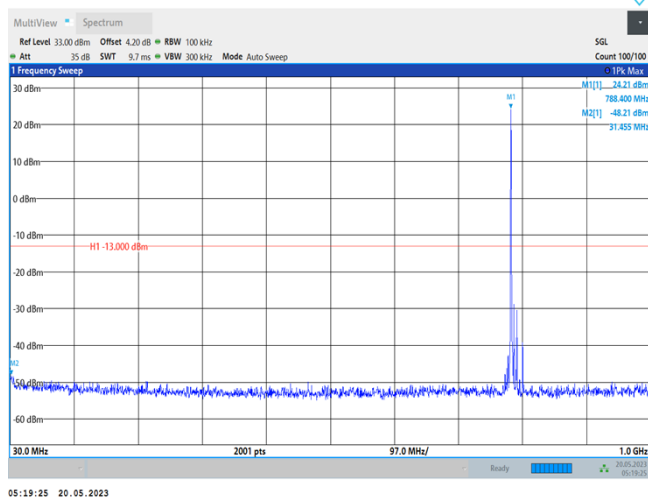
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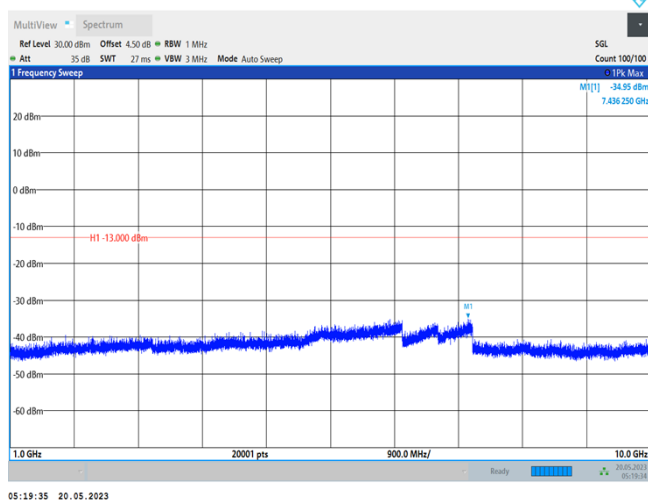
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW 10M_ 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	1577.18	43.59	-48.51	25.58	-74.61	-40.00	34.61	296	240	Horizontal
2	2365.77	42.85	-47.60	27.63	-72.38	-13.00	59.38	265	3	Horizontal
3	3154.36	41.93	-46.39	29.54	-70.18	-13.00	57.18	284	223	Horizontal
4	3942.95	42.39	-45.52	30.46	-67.92	-13.00	54.92	142	360	Horizontal
5	4731.54	41.02	-44.57	31.96	-66.85	-13.00	53.85	263	240	Horizontal
6	5520.13	40.38	-43.76	32.67	-65.97	-13.00	52.97	228	64	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	1577.18	44.67	-48.51	25.58	-73.53	-40.00	33.53	196	328	Vertical
2	2365.77	44.30	-47.60	27.63	-70.93	-13.00	57.93	265	156	Vertical
3	3154.36	42.67	-46.39	29.54	-69.44	-13.00	56.44	284	156	Vertical
4	3942.95	42.11	-45.52	30.46	-68.20	-13.00	55.20	142	234	Vertical
5	4731.54	40.14	-44.57	31.96	-67.73	-13.00	54.73	263	17	Vertical
6	5520.13	40.53	-43.76	32.67	-65.82	-13.00	52.82	228	7	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1576.68	44.03	-48.51	25.58	-74.17	-40.00	34.17	196	205	Horizontal
2	2365.02	43.53	-47.60	27.63	-71.70	-13.00	58.70	265	16	Horizontal
3	3153.36	41.62	-46.39	29.54	-70.50	-13.00	57.50	284	174	Horizontal
4	3941.7	42.18	-45.52	30.46	-68.14	-13.00	55.14	142	360	Horizontal
5	4730.04	40.54	-44.57	31.95	-67.34	-13.00	54.34	263	63	Horizontal
6	5518.38	40.12	-43.76	32.66	-66.24	-13.00	53.24	228	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	1576.68	44.48	-48.51	25.58	-73.72	-40.00	33.72	196	267	Vertical
2	2365.02	43.36	-47.60	27.63	-71.87	-13.00	58.87	265	61	Vertical
3	3153.36	42.50	-46.39	29.54	-69.62	-13.00	56.62	284	0	Vertical
4	3941.7	41.97	-45.52	30.46	-68.35	-13.00	55.35	142	203	Vertical
5	4730.04	40.99	-44.57	31.95	-66.89	-13.00	53.89	263	297	Vertical
6	5518.38	40.89	-43.76	32.66	-65.47	-13.00	52.47	224	188	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1581.68	44.45	-48.51	25.58	-73.74	-40.00	33.74	102	112	Horizontal
2	2372.52	42.35	-47.60	27.65	-72.87	-13.00	59.87	265	64	Horizontal
3	3163.36	42.16	-46.37	29.53	-69.93	-13.00	56.93	254	257	Horizontal
4	3954.2	43.21	-45.51	30.49	-67.07	-13.00	54.07	122	303	Horizontal
5	4745.04	41.60	-44.58	31.99	-66.25	-13.00	53.25	366	3	Horizontal
6	5535.88	40.00	-43.74	32.72	-66.29	-13.00	53.29	214	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	1581.68	44.41	-48.51	25.58	-73.78	-40.00	33.78	265	170	Vertical
2	2372.52	42.83	-47.60	27.65	-72.39	-13.00	59.39	284	76	Vertical
3	3163.36	41.90	-46.37	29.53	-70.19	-13.00	57.19	142	139	Vertical
4	3954.2	42.25	-45.51	30.49	-68.03	-13.00	55.03	263	14	Vertical
5	4745.04	40.31	-44.58	31.99	-67.54	-13.00	54.54	225	0	Vertical
6	5535.88	41.45	-43.74	32.72	-64.84	-13.00	51.84	296	1	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1586.68	43.66	-48.52	25.59	-74.53	-40.00	34.53	196	111	Horizontal
2	2380.02	43.06	-47.60	27.66	-72.14	-13.00	59.14	265	257	Horizontal
3	3173.36	41.86	-46.34	29.53	-70.21	-13.00	57.21	284	47	Horizontal
4	3966.7	41.35	-45.51	30.52	-68.90	-13.00	55.90	142	360	Horizontal
5	4760.04	41.00	-44.59	32.03	-66.82	-13.00	53.82	263	127	Horizontal
6	5553.38	40.82	-43.73	32.77	-65.39	-13.00	52.39	228	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	1586.68	44.43	-48.52	25.59	-73.76	-40.00	33.76	296	156	Vertical
2	2380.02	43.07	-47.60	27.66	-72.13	-13.00	59.13	265	219	Vertical
3	3173.36	42.51	-46.34	29.53	-69.56	-13.00	56.56	241	2	Vertical
4	3966.7	41.75	-45.51	30.52	-68.50	-13.00	55.50	175	8	Vertical
5	4760.04	39.98	-44.59	32.03	-67.84	-13.00	54.84	263	2	Vertical
6	5553.38	40.97	-43.73	32.77	-65.24	-13.00	52.24	228	0	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-1.00	-0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-3.30	-0.004161	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-4.20	-0.005296	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-2.20	-0.002774	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-3.00	-0.003783	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-0.90	-0.001135	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	1.70	0.002144	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-3.80	-0.004792	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-4.50	-0.005675	PASS

---End of Attachment---



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