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Appendix B.12

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.65	16.95	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.65	16.95	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.68	16.98	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.77	16.07	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.66	16.96	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.61	16.91	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.58	16.88	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.70	16.00	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.47	16.77	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.52	16.82	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.48	16.78	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.61	15.91	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.86	16.16	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.85	16.15	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.94	16.24	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.72	15.02	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.79	16.09	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.82	16.12	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.85	16.15	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.66	14.96	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.74	16.04	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.73	16.03	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.73	16.03	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.48	14.78	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.50	16.80	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.47	16.77	23.98	PASS



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Band30	10MHz	QPSK	27710	1RB#49	22.50	16.80	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.64	15.94	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.63	15.93	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.71	16.01	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.72	16.02	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.53	14.83	23.98	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	4.34	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	4.96	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.20	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.74	13	PASS



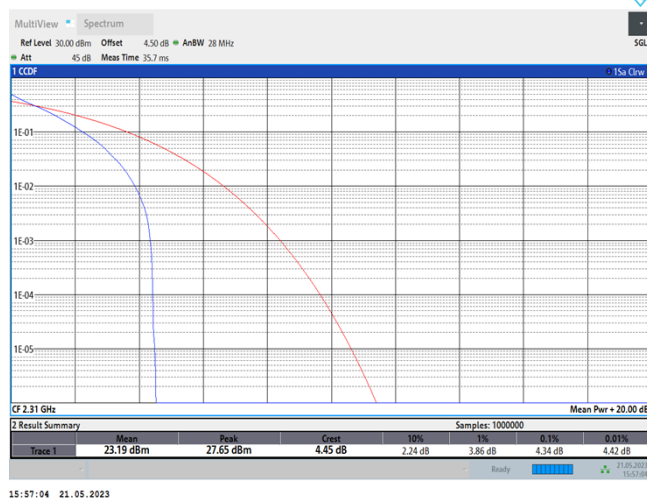
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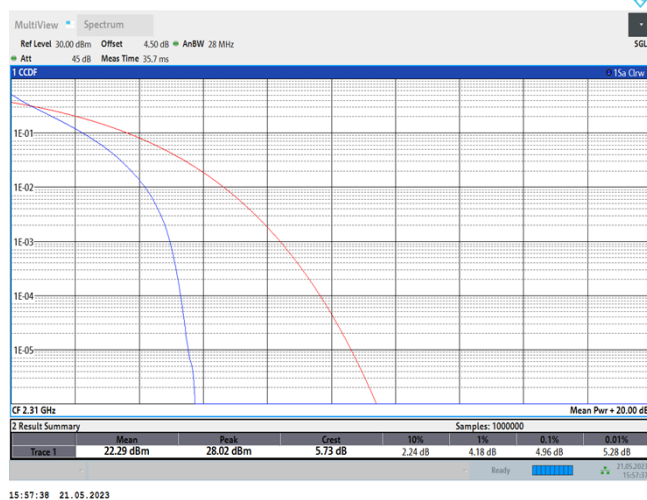
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Test Graphs

Band30-10MHz-QPSK-27710-1RB#0



Band30-10MHz-QPSK-27710-50RB#0



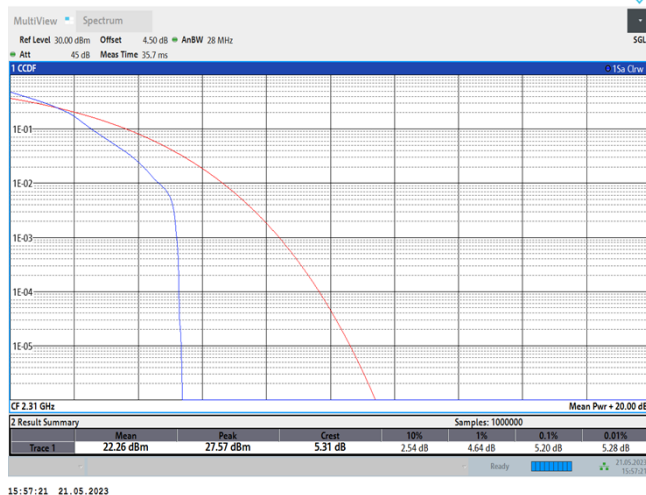
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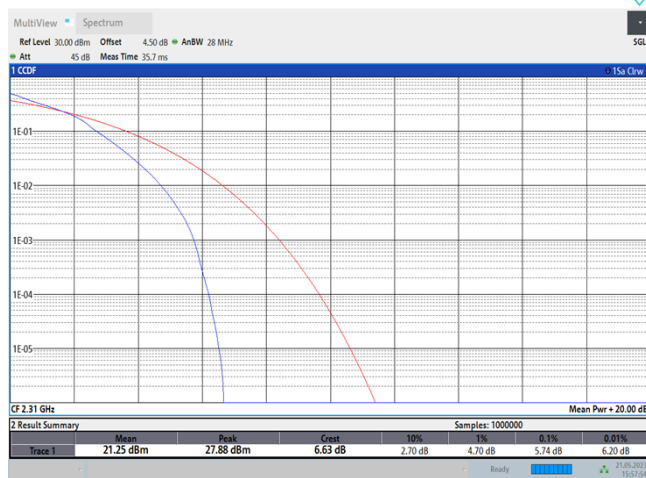
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Band30-10MHz-16QAM-27710-1RB#0



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Band30-10MHz-16QAM-27710-50RB#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
Band30	5MHz	QPSK	27685	25RB#0	4.503	4.79	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.501	4.79	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.504	4.79	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.501	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.503	4.78	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.500	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.986	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.992	9.53	PASS



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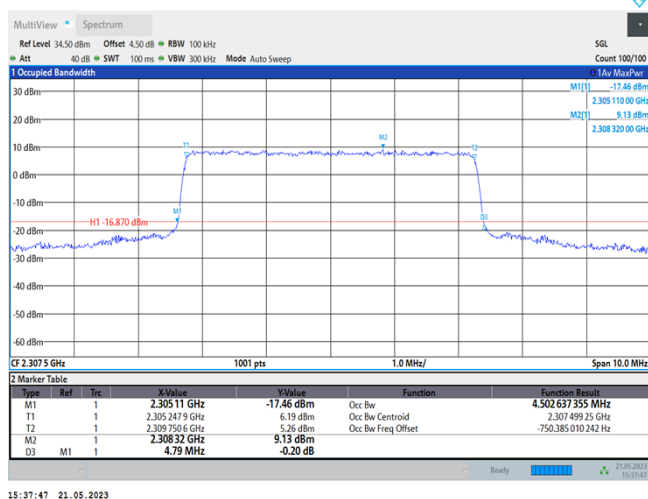
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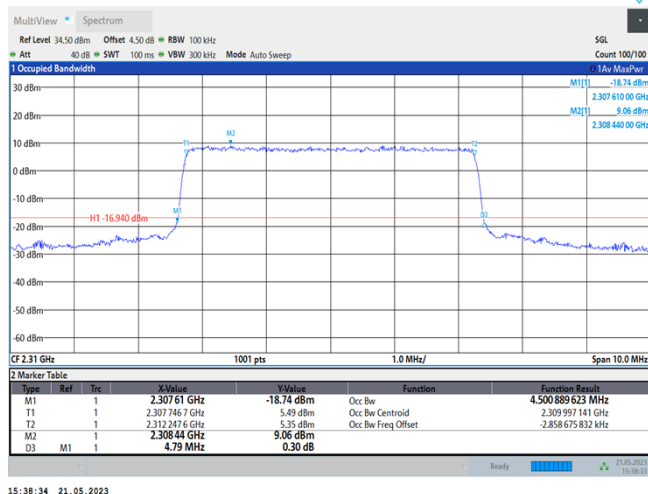
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Test Graphs

Band30-5MHz-QPSK-27685-25RB#0



Band30-5MHz-QPSK-27710-25RB#0



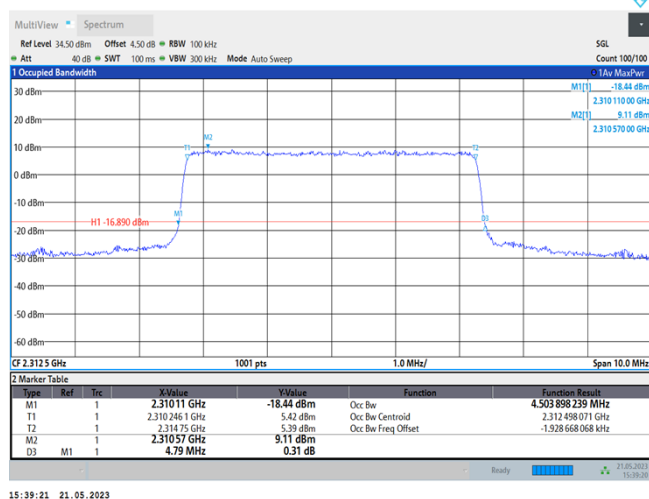
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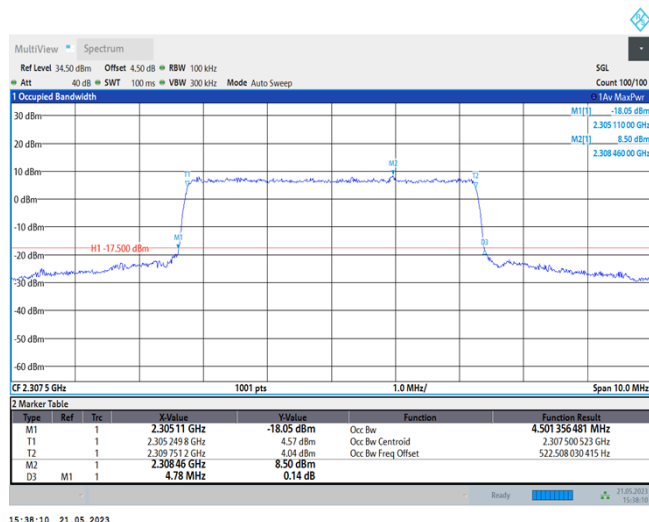
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Band30-5MHz-16QAM-27685-25RB#0



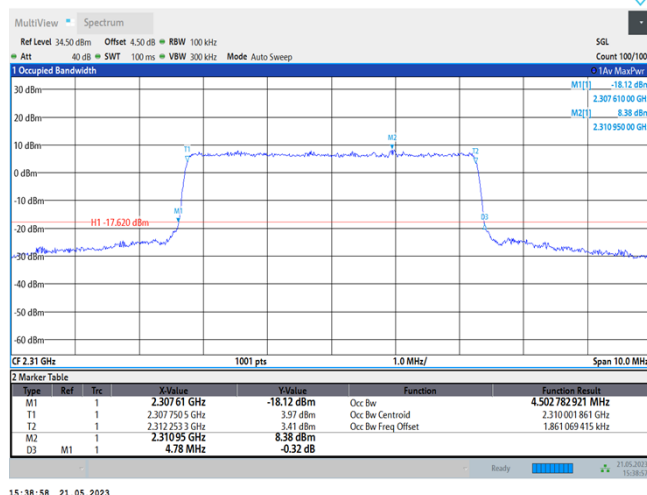
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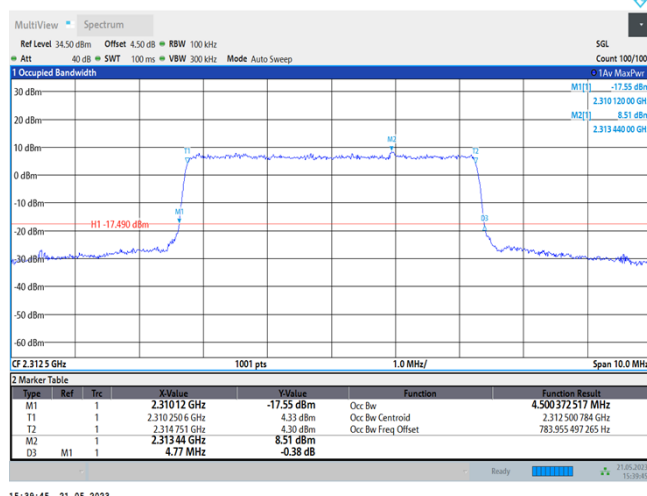
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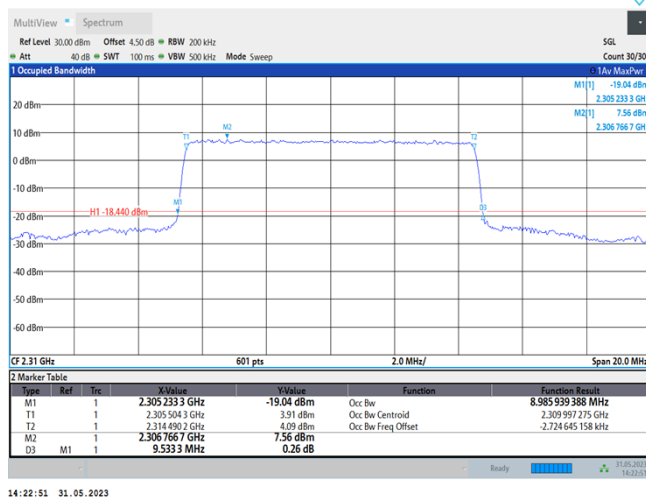
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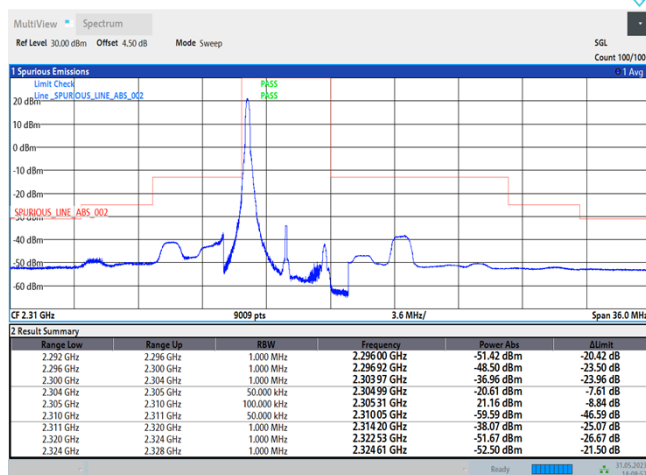
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Band Edge

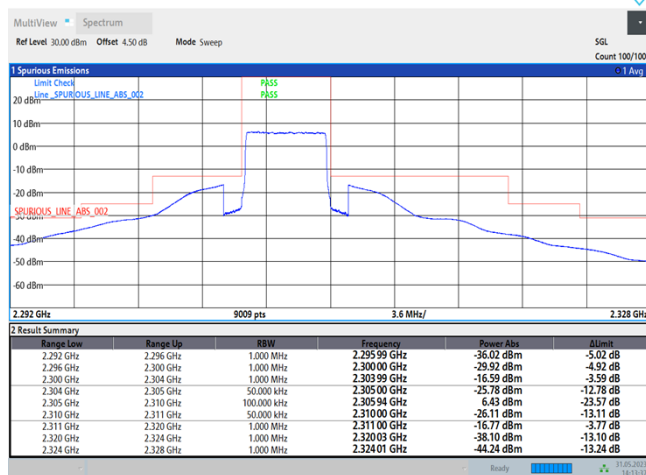
Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



14:08:52 31.05.2023

Band30-5MHz-QPSK-27685-25RB#0



14:13:38 31.05.2023



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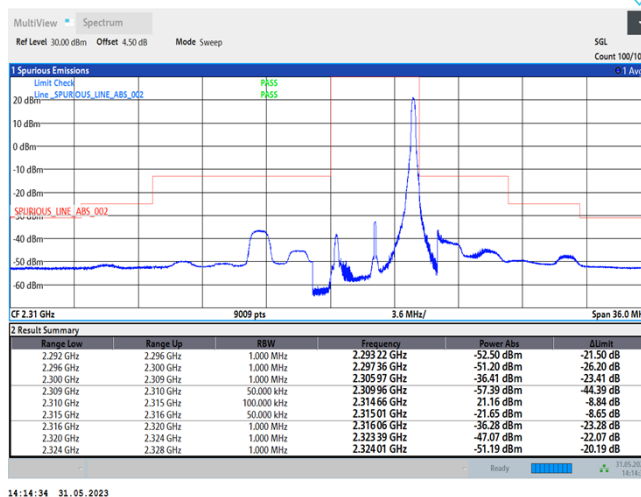
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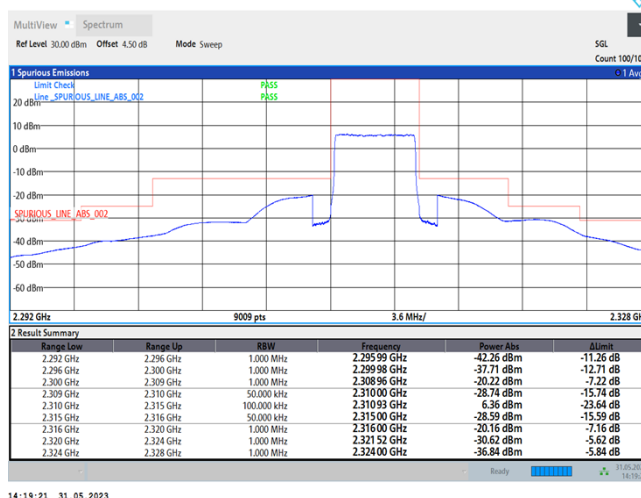
Page: 13 of 22

Band30-5MHz-QPSK-27735-1RB#24



14:14:34 31.05.2023

Band30-5MHz-QPSK-27735-25RB#0



14:19:21 31.05.2023



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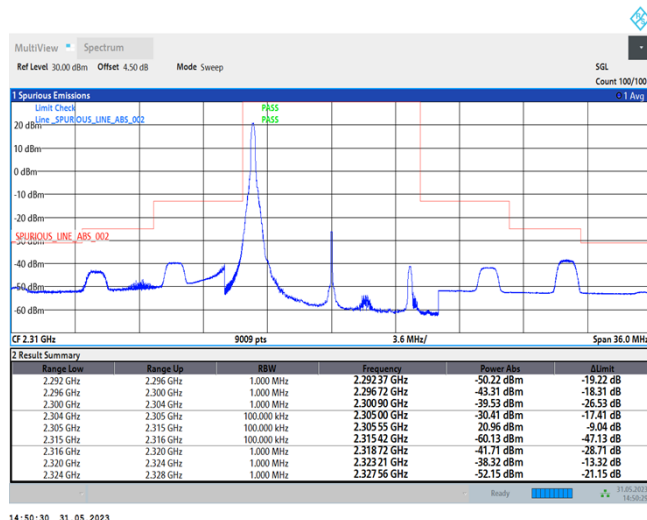
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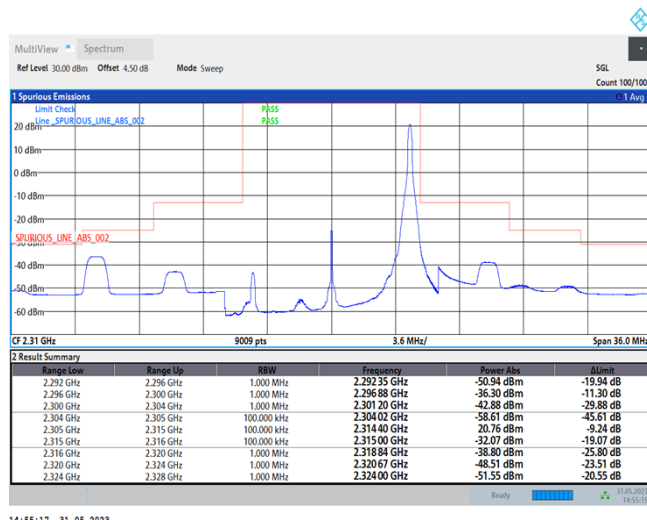
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Band30-10MHz-QPSK-27710-1RB#0



14:50:30 31.05.2023

Band30-10MHz-QPSK-27710-1RB#49



14:55:17 31.05.2023



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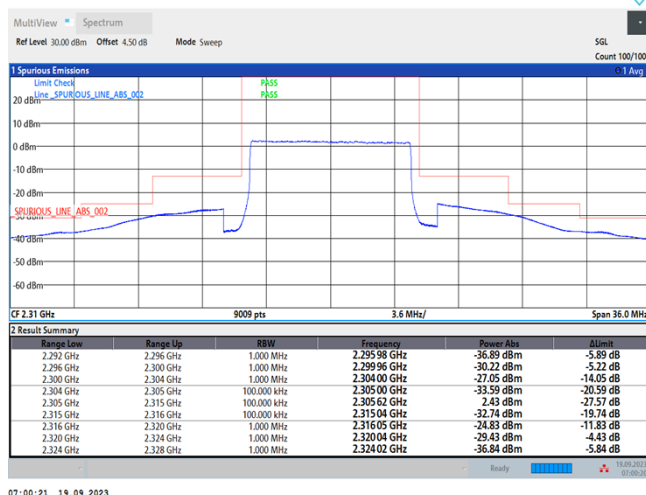
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Band30-10MHz-QPSK-27710-50RB#0



07:00:21 19.09.2023



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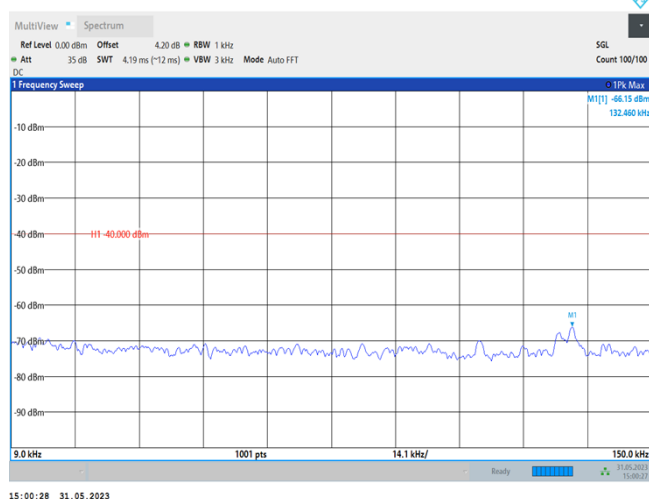
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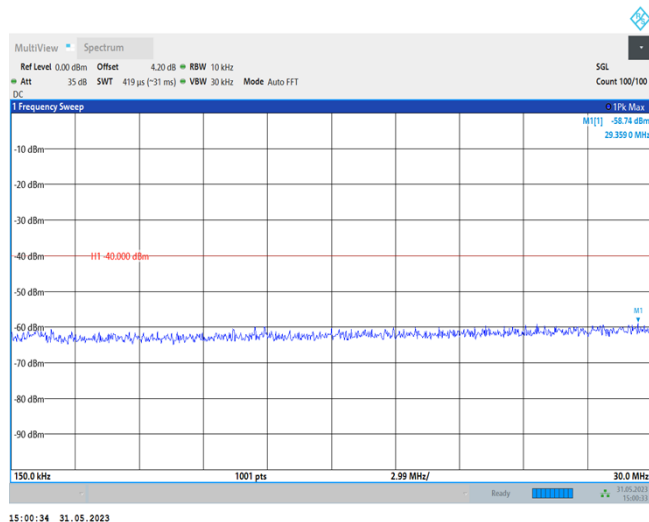
Conducted Spurious Emission

Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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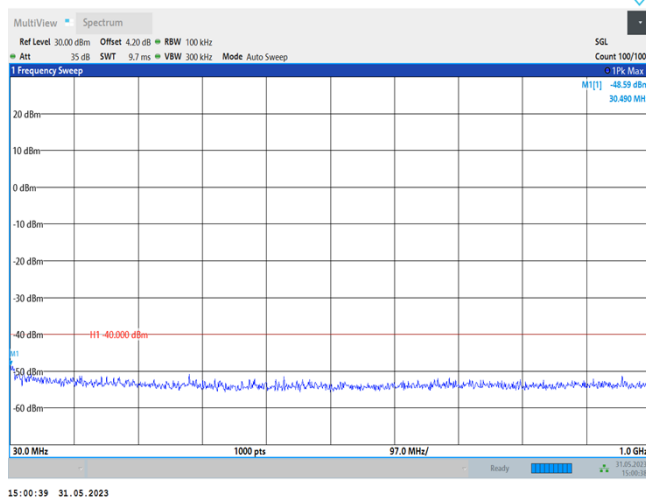
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Report No.: SEWA2304000051RG01

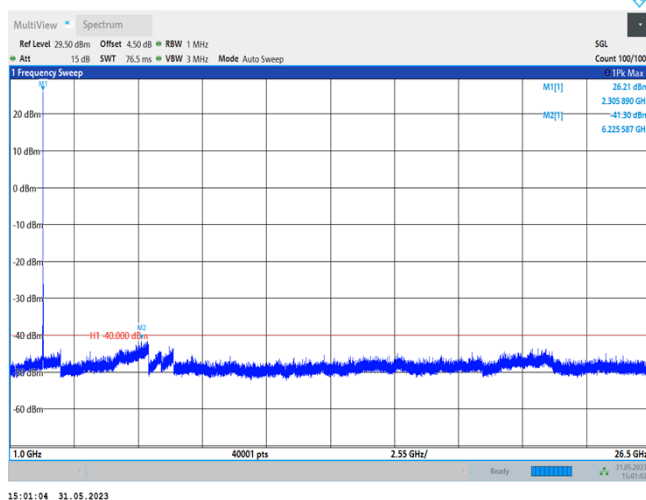
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 30 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	13833.5	43.47	-34.88	40.18	-46.49	-40.00	6.49	196	270	Horizontal
2	4611.18	49.43	-44.45	32.35	-57.94	-40.00	17.94	265	128	Horizontal
3	6916.77	41.91	-42.46	35.97	-59.84	-40.00	19.84	284	80	Horizontal
4	9222.36	37.22	-38.40	37.67	-58.77	-40.00	18.77	142	320	Horizontal
5	11527.95	34.32	-35.24	38.40	-57.78	-40.00	17.78	263	311	Horizontal
6	16139.13	33.40	-33.34	38.30	-56.90	-40.00	16.90	228	305	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	13833.5	40.87	-34.88	40.18	-49.09	-40.00	9.09	102	321	Vertical
2	4611.18	51.53	-44.45	32.35	-55.84	-40.00	15.84	265	191	Vertical
3	6916.77	41.29	-42.46	35.97	-60.46	-40.00	20.46	284	81	Vertical
4	9222.36	37.61	-38.40	37.67	-58.38	-40.00	18.38	142	335	Vertical
5	11527.95	34.10	-35.24	38.40	-58.00	-40.00	18.00	263	360	Vertical
6	16139.13	33.93	-33.34	38.30	-56.37	-40.00	16.37	228	360	Vertical



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Test Band = LTE Band 30 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	4610.5	52.08	-44.46	32.34	-55.29	-40.00	15.29	201	129	Horizontal
2	13832	42.20	-34.89	40.18	-47.77	-40.00	7.77	196	273	Horizontal
3	6916.02	41.24	-42.46	35.97	-60.51	-40.00	20.51	265	273	Horizontal
4	9221.36	36.81	-38.40	37.67	-59.18	-40.00	19.18	284	98	Horizontal
5	11526.7	34.63	-35.24	38.40	-57.47	-40.00	17.47	142	81	Horizontal
6	16137.38	34.17	-33.36	38.30	-56.15	-40.00	16.15	263	226	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	4610.68	51.56	-44.46	32.34	-55.81	-40.00	15.81	102	178	Vertical
2	6916.02	41.65	-42.46	35.97	-60.10	-40.00	20.10	296	293	Vertical
3	9221.36	36.85	-38.40	37.67	-59.14	-40.00	19.14	142	256	Vertical
4	11526.7	34.01	-35.24	38.40	-58.09	-40.00	18.09	265	359	Vertical
5	13832.04	40.75	-34.89	40.18	-49.22	-40.00	9.22	254	293	Vertical
6	16137.38	33.71	-33.36	38.30	-56.61	-40.00	16.61	142	162	Vertical



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Test Band = LTE Band 30 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	13847	39.79	-34.77	40.19	-50.04	-40.00	10.04	296	257	Horizontal
2	4615.68	49.00	-44.44	32.36	-58.35	-40.00	18.35	265	177	Horizontal
3	6923.52	42.53	-42.47	35.97	-59.23	-40.00	19.23	254	321	Horizontal
4	9231.36	37.39	-38.40	37.67	-58.60	-40.00	18.60	142	34	Horizontal
5	11539.2	35.46	-35.31	38.40	-56.71	-40.00	16.71	263	226	Horizontal
6	16154.88	34.27	-33.21	38.31	-55.89	-40.00	15.89	228	83	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	4615.5	54.25	-44.45	32.35	-53.10	-40.00	13.10	102	174	Vertical
2	6923.52	41.84	-42.47	35.97	-59.92	-40.00	19.92	296	97	Vertical
3	9231.36	37.77	-38.40	37.67	-58.22	-40.00	18.22	265	80	Vertical
4	11539.2	34.58	-35.31	38.40	-57.59	-40.00	17.59	284	161	Vertical
5	13847.04	39.03	-34.76	40.19	-50.80	-40.00	10.80	142	360	Vertical
6	16154.88	33.66	-33.21	38.31	-56.50	-40.00	16.50	263	80	Vertical



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Test Band = LTE Band 30 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	4620.68	49.58	-44.43	32.37	-57.75	-40.00	17.75	102	175	Horizontal
2	6931.02	41.66	-42.48	35.97	-60.11	-40.00	20.11	265	241	Horizontal
3	9241.32	37.08	-38.40	37.67	-58.90	-40.00	18.90	284	220	Horizontal
4	11551.7	34.36	-35.38	38.40	-57.88	-40.00	17.88	142	241	Horizontal
5	13862.04	37.33	-34.63	40.20	-52.36	-40.00	12.36	263	225	Horizontal
6	16172.38	33.87	-33.06	38.32	-56.13	-40.00	16.13	228	18	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	4620.5	53.21	-44.43	32.37	-54.12	-40.00	14.12	102	190	Vertical
2	6931.02	41.40	-42.48	35.97	-60.37	-40.00	20.37	265	269	Vertical
3	9241.32	37.69	-38.40	37.67	-58.29	-40.00	18.29	284	33	Vertical
4	11551.7	34.33	-35.38	38.40	-57.91	-40.00	17.91	142	225	Vertical
5	13862.04	37.79	-34.63	40.20	-51.90	-40.00	11.90	263	354	Vertical
6	16172.38	33.29	-33.06	38.32	-56.71	-40.00	16.71	228	321	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
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-4.10	-0.001775	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-2.30	-0.000996	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	1.70	0.000736	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	5.60	0.002424	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-7.10	-0.003074	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	5.70	0.002468	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-5.90	-0.002554	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	3.60	0.003652	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	3.20	0.004524	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-2.60	-0.006354	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	2.10	0.0023658	PASS

---End of Attachment---



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