

Report No.: SEWM2308000314RG01

Rev.: 01

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Appendix B.11

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT3

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.45	21.85	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.57	21.97	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.52	21.92	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.52	20.92	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.36	21.76	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.62	22.02	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.5	21.9	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.5	20.9	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.42	21.82	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.5	21.9	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.48	21.88	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.47	20.87	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.55	20.95	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.62	21.02	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.57	20.97	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.74	20.14	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.58	20.98	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.61	21.01	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.55	20.95	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.77	20.17	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.55	20.95	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.52	20.92	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.59	20.99	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.7	20.1	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.76	20.16	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.72	20.12	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.77	20.17	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	19.68	19.08	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.75	20.15	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.7	20.1	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.77	20.17	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.65	19.05	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.62	20.02	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.8	20.2	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.8	20.2	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.67	19.07	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.77	17.17	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.7	17.1	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.75	17.15	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.65	17.05	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.77	17.17	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.68	17.08	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.69	17.09	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.64	17.04	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.79	17.19	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.69	17.09	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.68	17.08	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.6	17	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.67	22.07	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.64	22.04	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.46	21.86	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.62	21.02	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.77	21.17	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.7	21.1	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.51	20.91	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.81	20.21	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.79	20.19	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.7	20.1	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.75	20.15	23.98	PASS



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Band30	10MHz	64QAM	27710	50RB#0	19.77	19.17	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.87	17.27	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.9	17.3	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.74	17.14	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.74	17.14	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	50RB#0	4.80	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.64	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.08	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.42	13	PASS

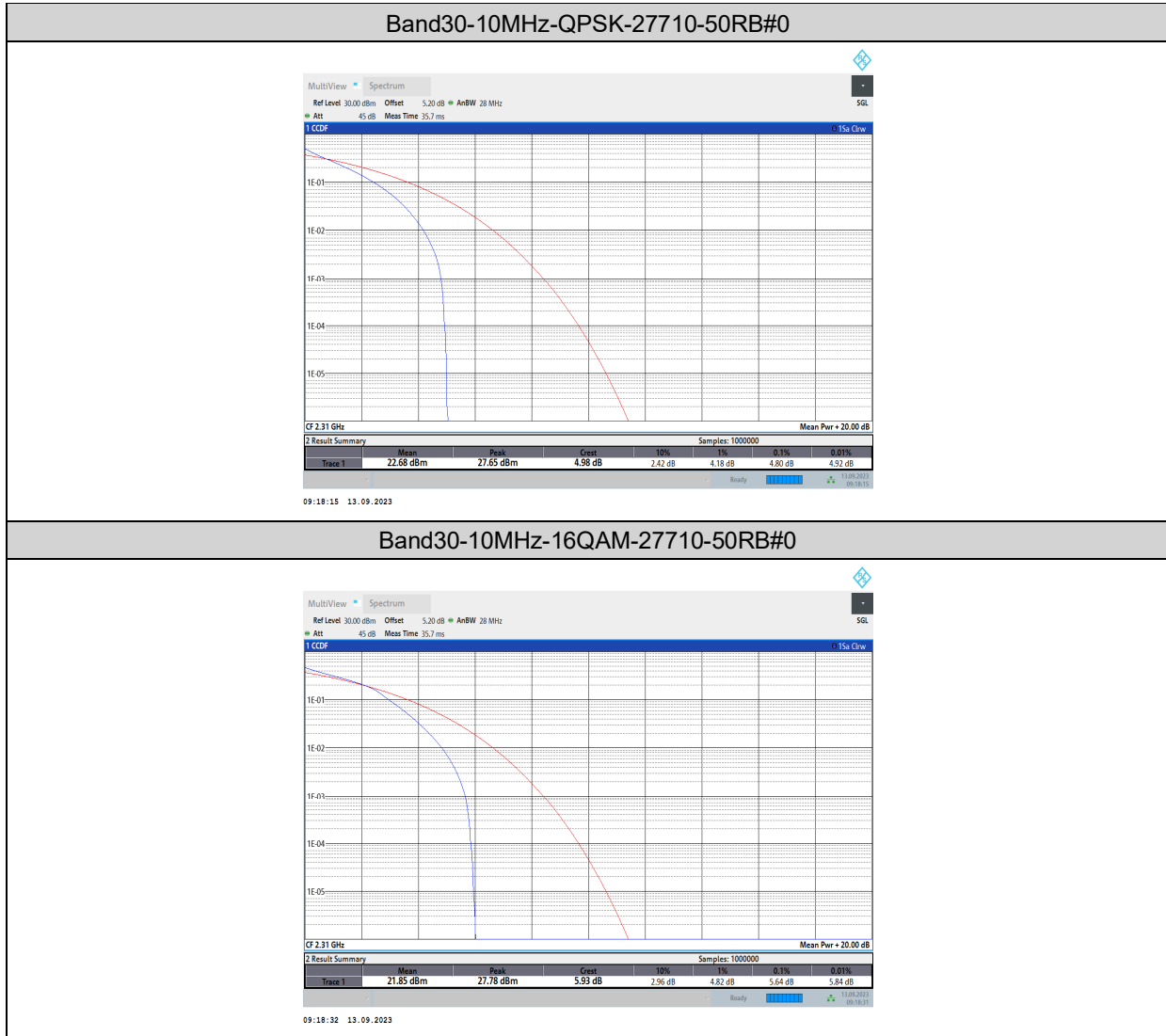


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Test Graphs

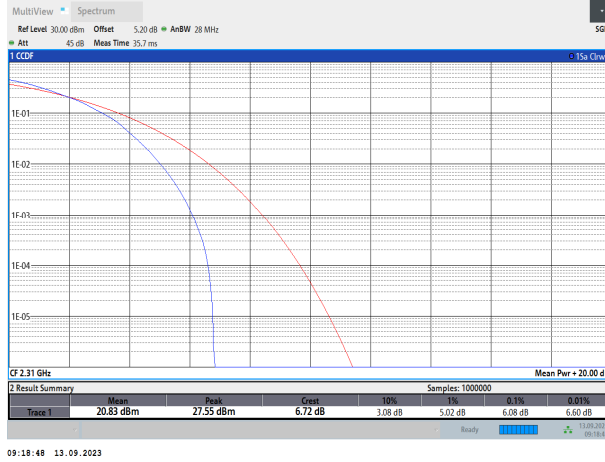


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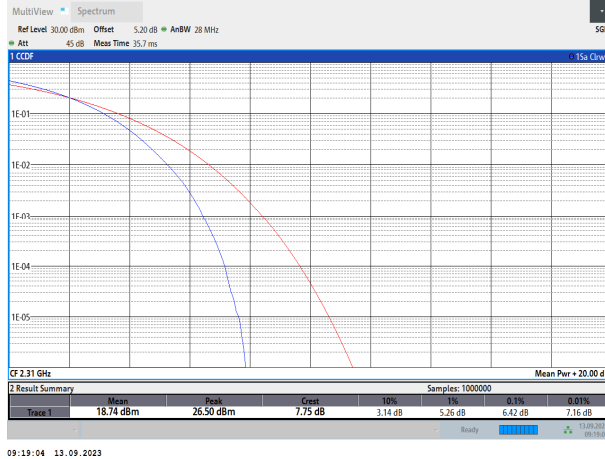
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Band30-10MHz-64QAM-27710-50RB#0



Band30-10MHz-256QAM-27710-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

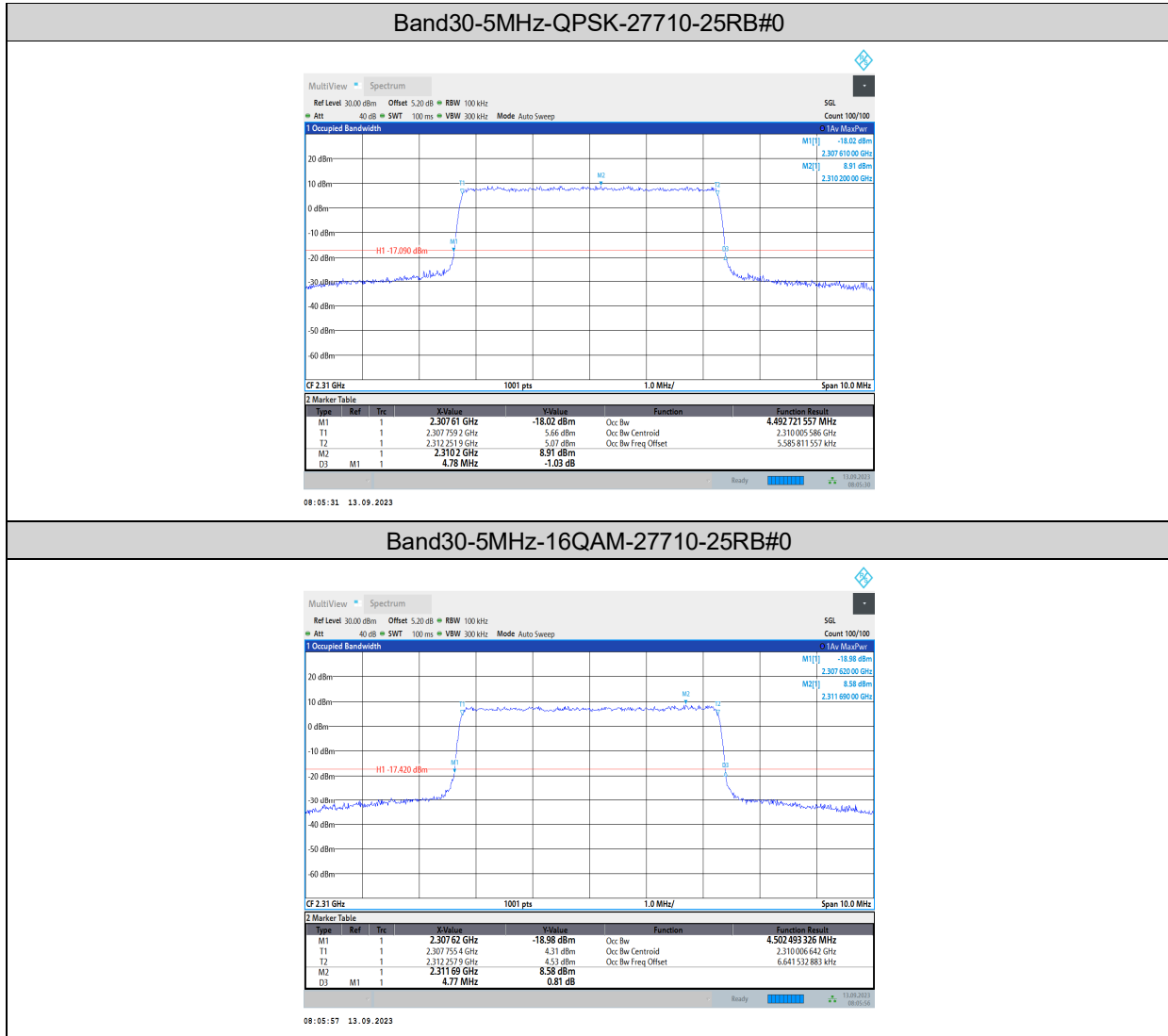
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27710	25RB#0	4.493	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.502	4.77	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.501	4.77	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.496	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.973	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.97	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.983	9.53	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.975	9.53	PASS



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Test Graphs

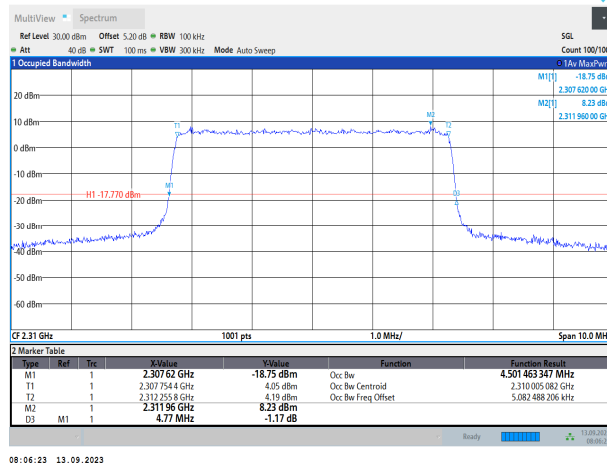


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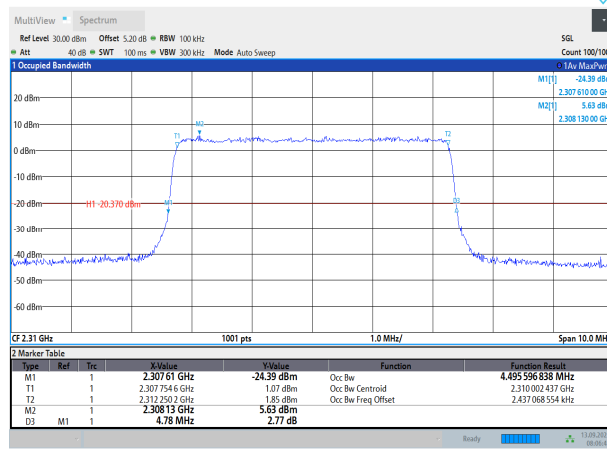
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Band30-5MHz-64QAM-27710-25RB#0



08:06:23 13.09.2023

Band30-5MHz-256QAM-27710-25RB#0



08:06:49 13.09.2023

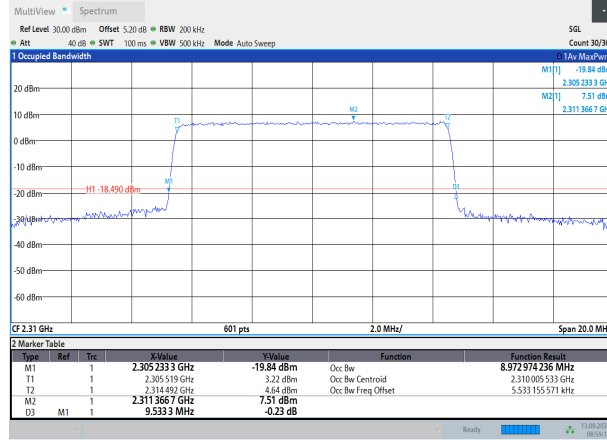


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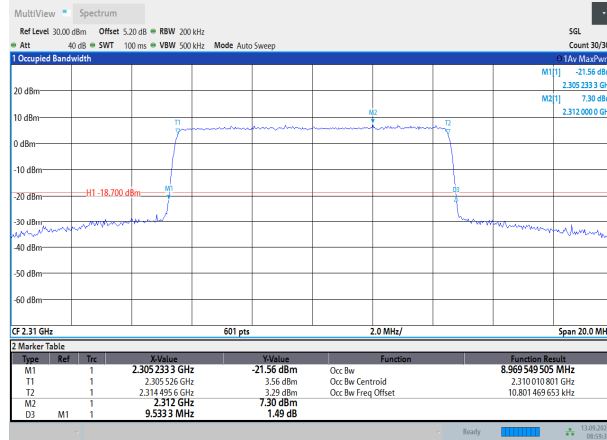
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Band30-10MHz-QPSK-27710-50RB#0



08:59:12 13.09.2023

Band30-10MHz-16QAM-27710-50RB#0



08:59:21 13.09.2023

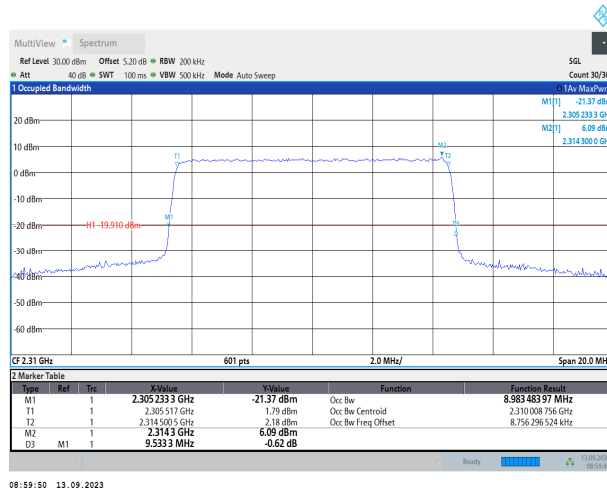


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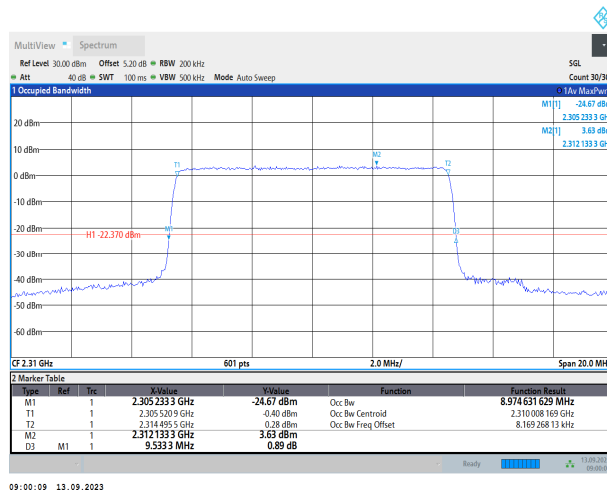
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Band30-10MHz-64QAM-27710-50RB#0



08:59:50 13.09.2023

Band30-10MHz-256QAM-27710-50RB#0



09:00:09 13.09.2023



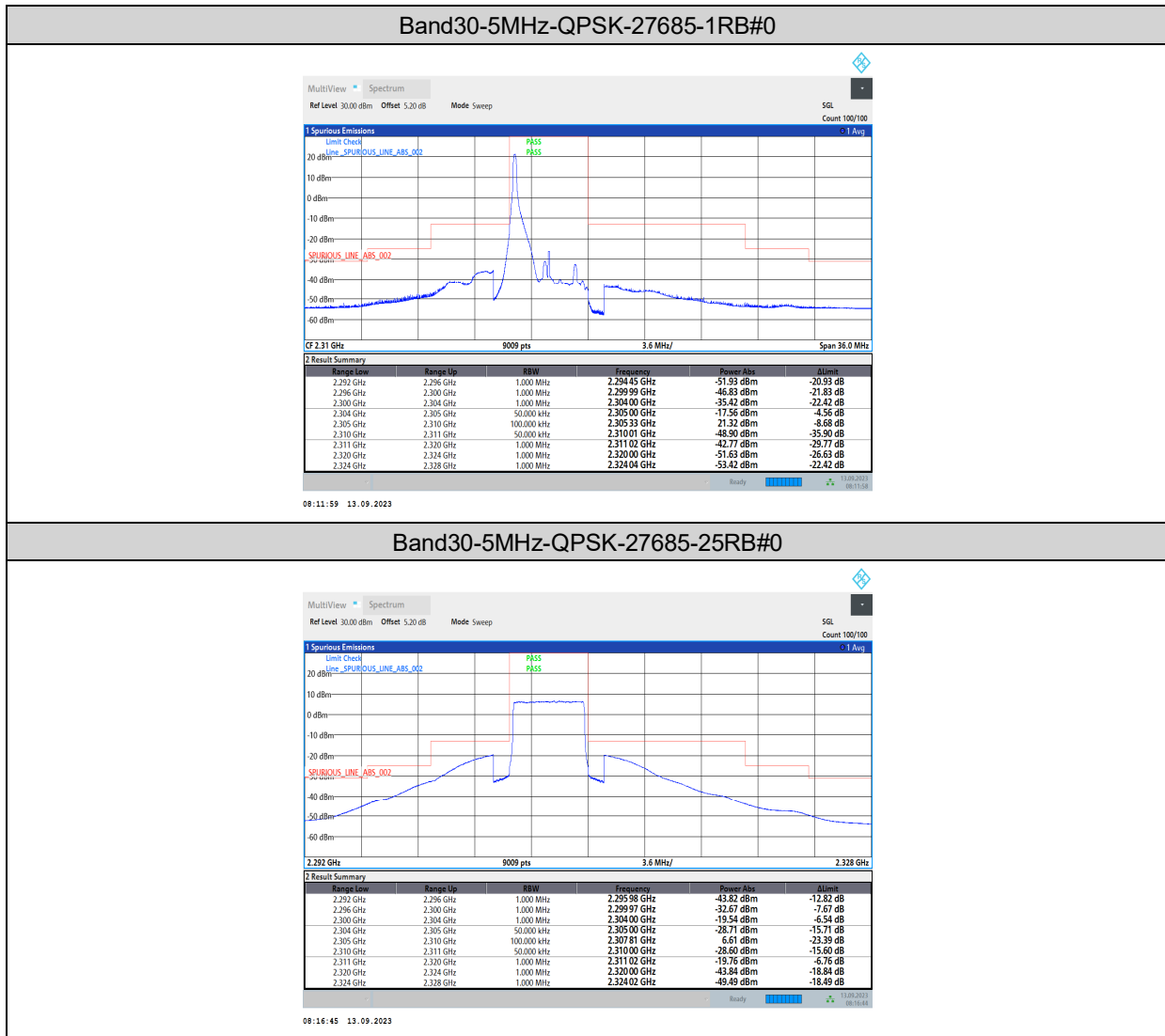
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Band Edge

Test Graphs

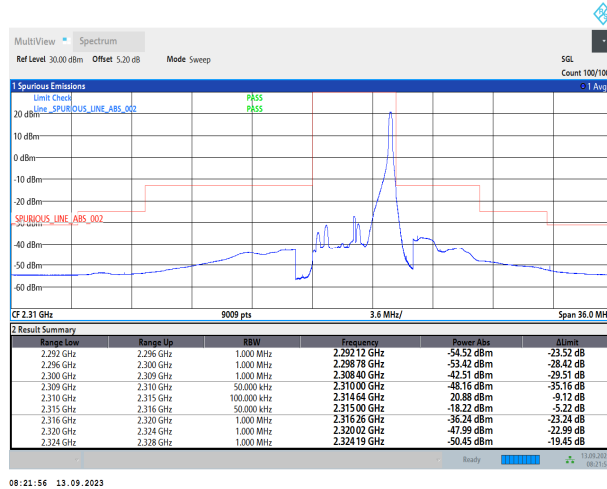


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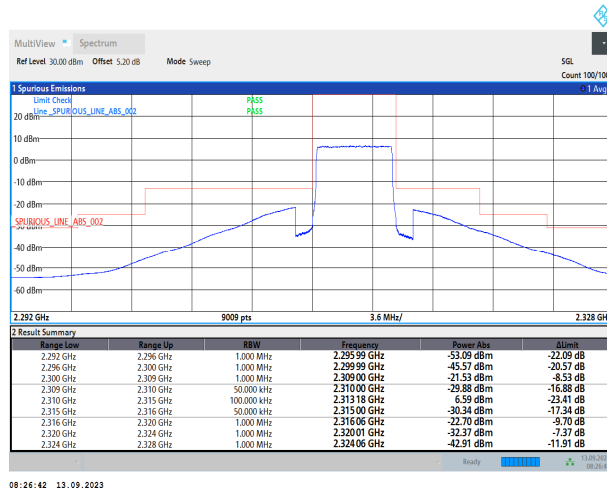
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Band30-5MHz-QPSK-27735-1RB#24



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

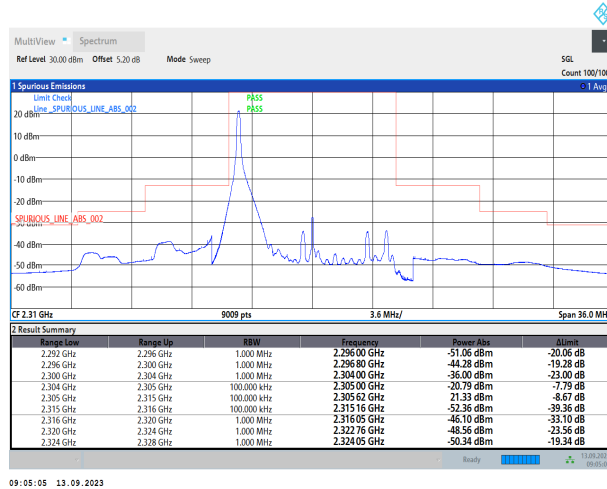


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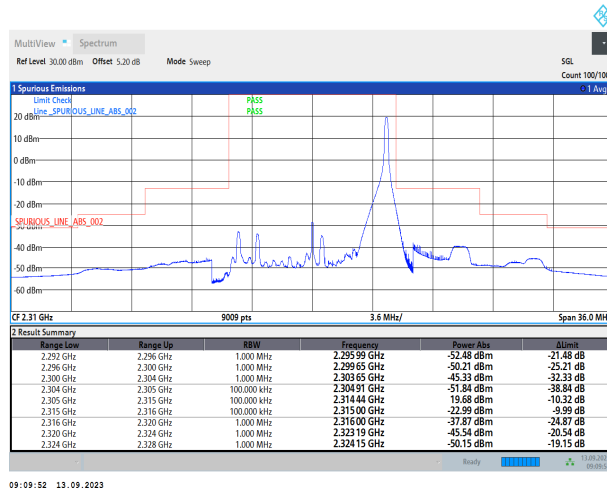
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Band30-10MHz-QPSK-27710-1RB#0



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

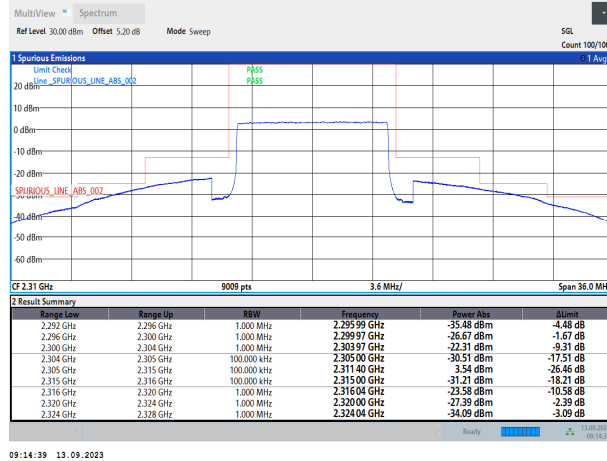


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Band30-10MHz-QPSK-27710-50RB#0



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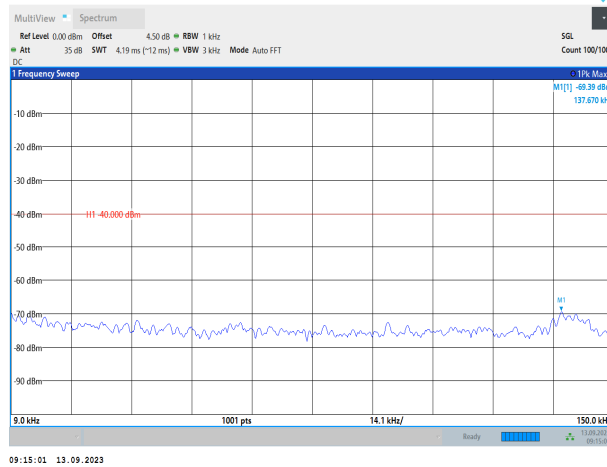
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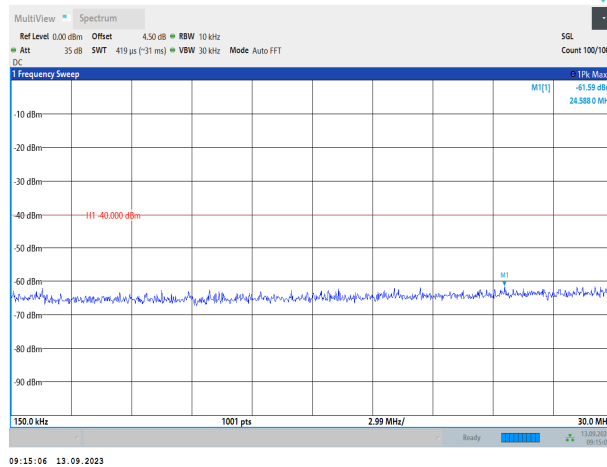
Conducted Spurious Emission

Test Graphs

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



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

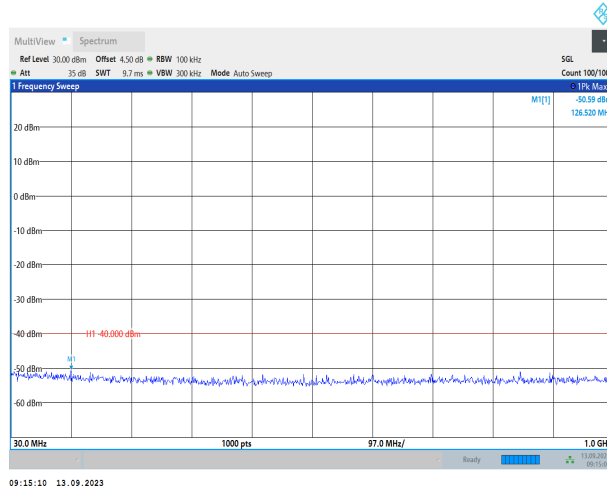


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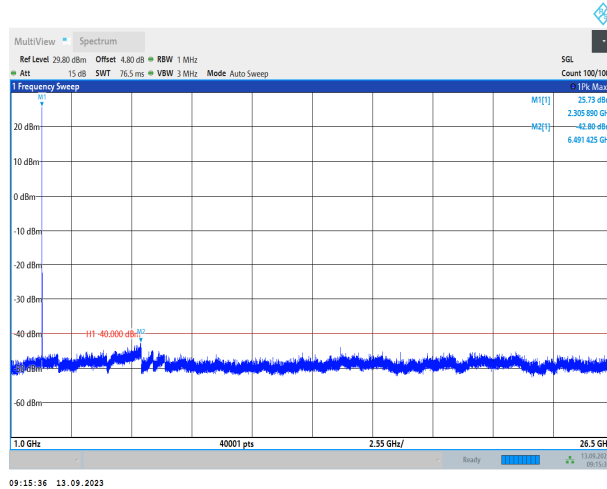
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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]	Polarity
1	4611	42.51	-41.60	32.34	-62.00	-40.00	22.00	Horizontal
2	6917	41.72	-38.34	35.97	-55.91	-40.00	15.91	Horizontal
3	9222	44.58	-34.37	37.67	-47.38	-40.00	7.38	Horizontal
4	11528	35.99	-29.93	38.40	-50.80	-40.00	10.80	Horizontal
5	13833.5	33.32	-29.31	40.18	-51.07	-40.00	11.07	Horizontal
6	16966	30.18	-24.27	38.88	-50.48	-40.00	10.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	39.89	-41.60	32.34	-64.62	-40.00	24.62	Vertical
2	6828.5	37.20	-38.42	35.93	-60.55	-40.00	20.55	Vertical
3	9222.5	35.75	-34.37	37.67	-56.21	-40.00	16.21	Vertical
4	12167	31.54	-29.57	38.60	-54.69	-40.00	14.69	Vertical
5	14348.5	30.27	-28.79	40.23	-53.55	-40.00	13.55	Vertical
6	17001.5	30.04	-23.97	38.90	-50.29	-40.00	10.29	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]	Polarity
1	3664.5	39.57	-42.92	30.16	-68.45	-40.00	28.45	Horizontal
2	5443.5	38.46	-40.77	33.11	-64.46	-40.00	24.46	Horizontal
3	7371.5	35.52	-37.74	36.45	-61.03	-40.00	21.03	Horizontal
4	10753	31.11	-30.61	38.28	-56.48	-40.00	16.48	Horizontal
5	13729	30.98	-29.03	40.11	-53.20	-40.00	13.20	Horizontal
6	16889	30.94	-24.97	38.82	-50.47	-40.00	10.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3747.5	39.02	-42.96	30.44	-68.76	-40.00	28.76	Vertical
2	5588.5	37.93	-40.71	33.40	-64.64	-40.00	24.64	Vertical
3	7893	34.97	-36.67	36.99	-59.96	-40.00	19.96	Vertical
4	10810	30.84	-30.63	38.31	-56.75	-40.00	16.75	Vertical
5	13740	31.18	-29.08	40.12	-53.04	-40.00	13.04	Vertical
6	16799.5	31.57	-25.59	38.76	-50.52	-40.00	10.52	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]	Polarity
1	3918	38.93	-42.81	31.02	-68.12	-40.00	28.12	Horizontal
2	4610.5	39.95	-41.60	32.34	-64.57	-40.00	24.57	Horizontal
3	7231	35.38	-37.84	36.28	-61.45	-40.00	21.45	Horizontal
4	9221.5	37.68	-34.37	37.67	-54.29	-40.00	14.29	Horizontal
5	11527	32.83	-29.93	38.40	-53.96	-40.00	13.96	Horizontal
6	15615.5	29.62	-27.65	38.93	-54.36	-40.00	14.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	39.29	-41.60	32.34	-65.23	-40.00	25.23	Vertical
2	6857	35.90	-38.39	35.94	-61.80	-40.00	21.80	Vertical
3	7947	35.82	-36.60	37.05	-59.00	-40.00	19.00	Vertical
4	9221	37.62	-34.37	37.67	-54.35	-40.00	14.35	Vertical
5	11526.5	35.18	-29.93	38.40	-51.61	-40.00	11.61	Vertical
6	14276.5	30.62	-28.85	40.24	-53.24	-40.00	13.24	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]	Polarity
1	4610.5	40.79	-41.60	32.34	-63.73	-40.00	23.73	Horizontal
2	6101.5	37.78	-39.92	35.00	-62.39	-40.00	22.39	Horizontal
3	9221.5	38.46	-34.37	37.67	-53.51	-40.00	13.51	Horizontal
4	11526.5	36.35	-29.93	38.40	-50.44	-40.00	10.44	Horizontal
5	13498.5	30.45	-28.48	39.95	-53.34	-40.00	13.34	Horizontal
6	16405	30.13	-26.29	38.48	-52.94	-40.00	12.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	39.46	-41.60	32.34	-65.06	-40.00	25.06	Vertical
2	7122.5	35.35	-38.11	36.15	-61.87	-40.00	21.87	Vertical
3	9221	36.49	-34.37	37.67	-55.48	-40.00	15.48	Vertical
4	11527	33.79	-29.93	38.40	-53.00	-40.00	13.00	Vertical
5	13480.5	30.89	-28.71	39.94	-53.14	-40.00	13.14	Vertical
6	16996.5	30.15	-23.98	38.90	-50.20	-40.00	10.20	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	0.00	0.000000	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	4.90	0.002121	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-5.80	-0.002511	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	8.70	0.003766	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-4.50	-0.001948	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-4.20	-0.005264	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	10.30	0.004459	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-10.10	-0.004372	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-2.50	-0.001082	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	6.30	0.004635	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-5.10	-0.003568	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-5.50	-0.002436	PASS

---End of Attachment---



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