

Appendix B.8

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant41

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.20	15.7	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.19	15.69	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.35	15.85	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.26	14.76	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.21	14.71	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.21	15.71	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.20	15.7	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.19	14.69	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.29	15.79	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.28	15.78	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.18	15.68	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.12	14.62	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.37	14.87	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.34	14.84	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.49	14.99	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.19	13.69	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.21	14.71	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.32	14.82	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.28	14.78	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.19	13.69	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.51	15.01	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.35	14.85	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.13	14.63	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.13	13.63	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.30	13.8	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.46	13.96	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#24	22.39	13.89	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.25	12.75	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.28	13.78	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.38	13.88	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.26	13.76	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.16	12.66	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.29	13.79	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.54	14.04	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.34	13.84	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.12	12.62	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	19.33	10.83	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	19.28	10.78	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	19.30	10.8	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	19.25	10.75	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	19.27	10.77	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	19.29	10.79	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	19.24	10.74	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	19.17	10.67	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	19.20	10.7	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	19.19	10.69	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	19.13	10.63	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	19.07	10.57	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.24	15.74	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.20	15.7	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.05	15.55	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.25	14.75	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.36	14.86	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.38	14.88	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.33	14.83	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.22	13.72	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.33	13.83	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.60	14.1	34.77	PASS



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Band13	10MHz	64QAM	23230	50RB#0	21.19	12.69	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	19.25	10.75	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	19.41	10.91	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	19.33	10.83	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	19.23	10.73	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
Band13	10MHz	QPSK	23230	50RB#0	4.70	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.58	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.16	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.48	13	PASS

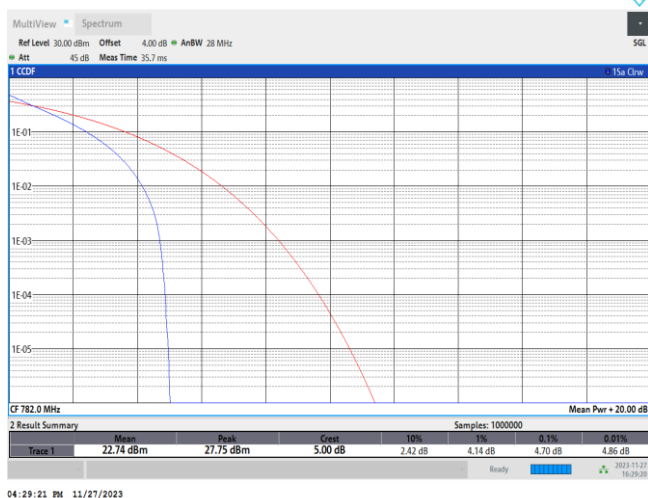


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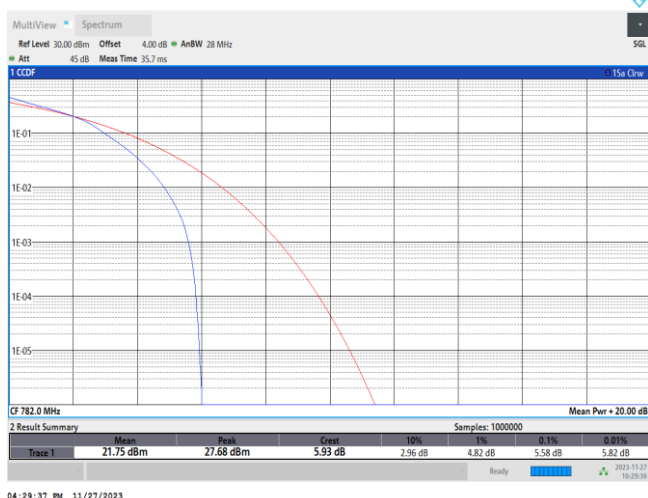
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0

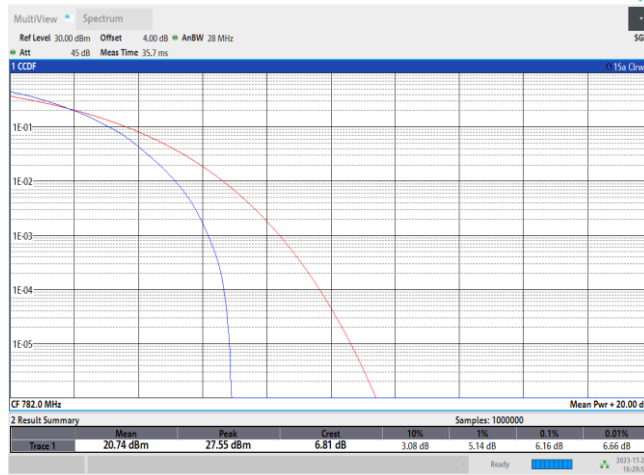


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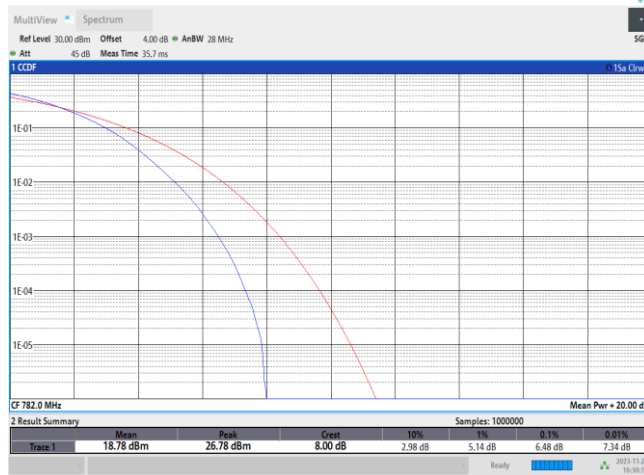
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Band13-10MHz-64QAM-23230-50RB#0



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Band13-10MHz-256QAM-23230-50RB#0



04:30:11 PM 11/27/2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23230	25RB#0	4.481	5.00	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.463	4.90	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.47	4.97	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.478	4.99	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.902	9.52	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.895	9.42	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.92	9.48	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.906	9.70	PASS



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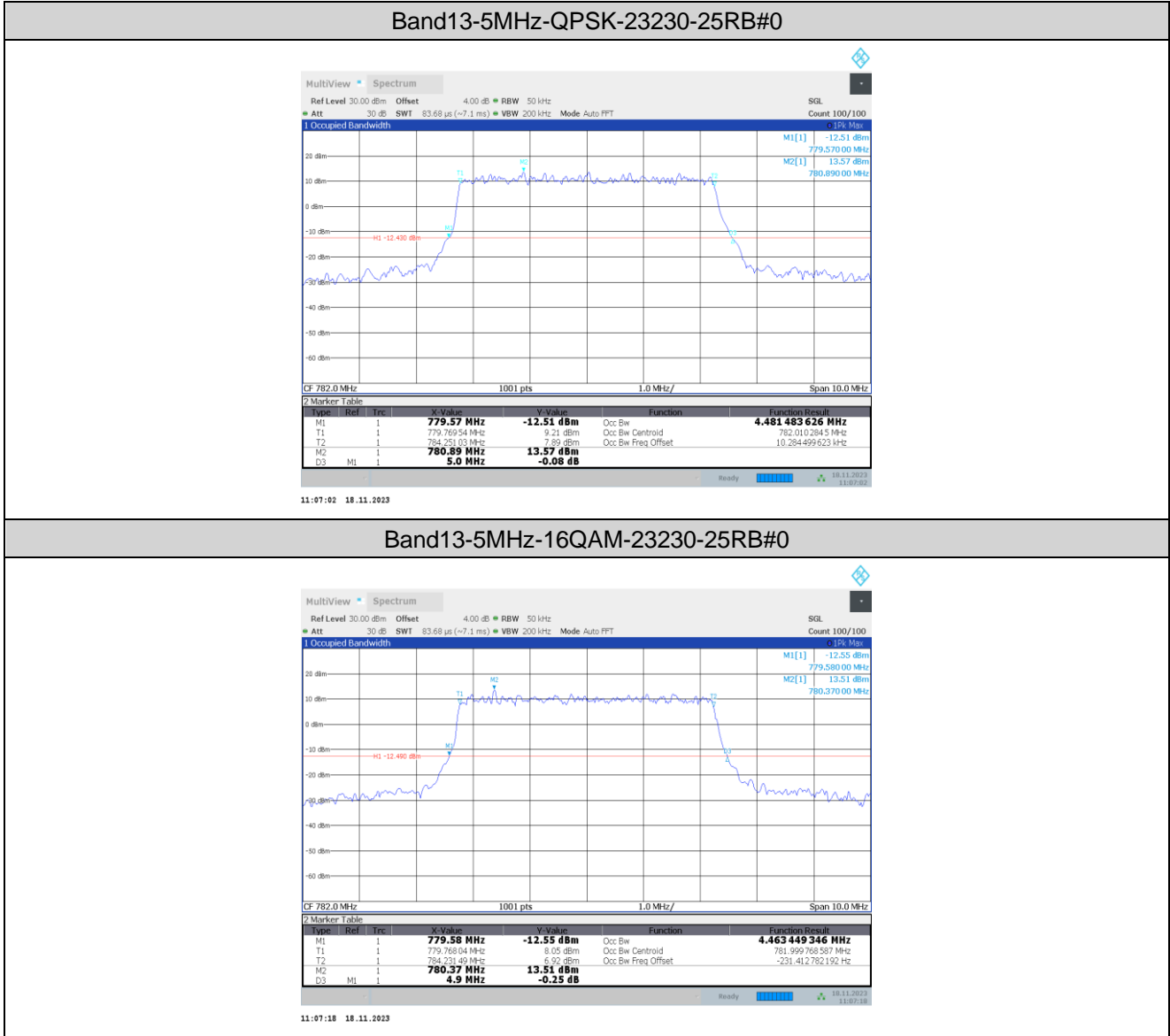
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Test Graphs

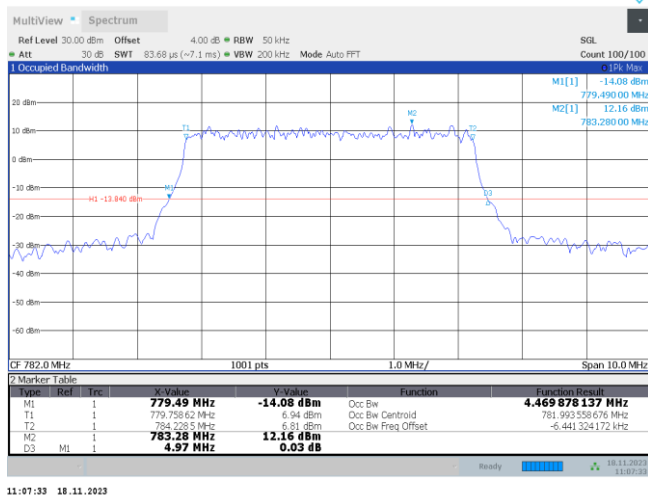


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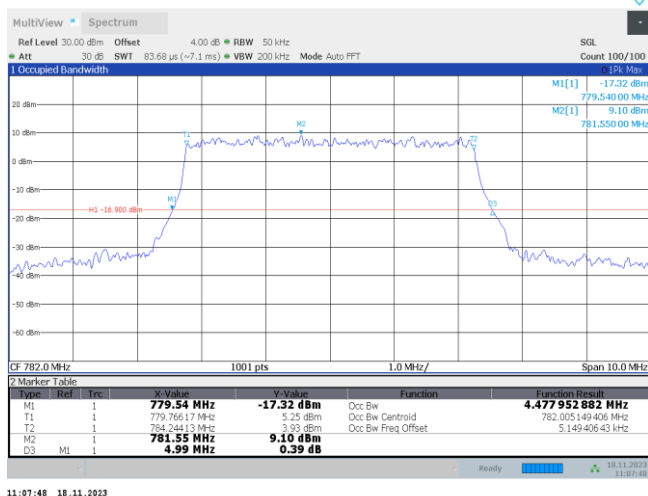
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Band13-5MHz-64QAM-23230-25RB#0



11:07:33 18.11.2023

Band13-5MHz-256QAM-23230-25RB#0



11:07:48 18.11.2023

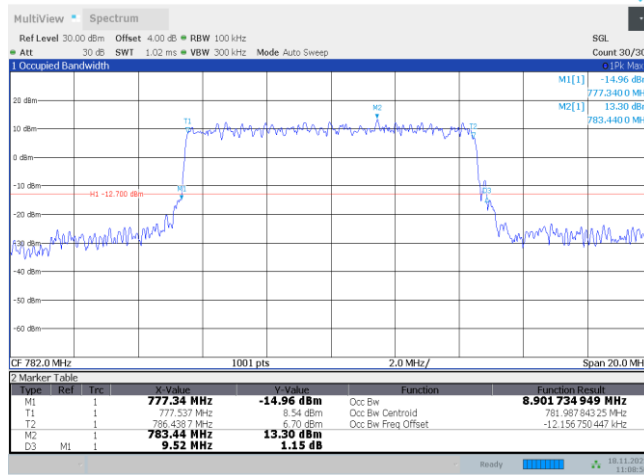


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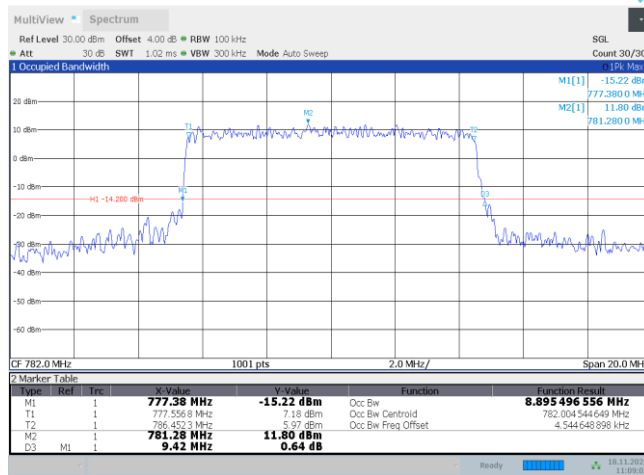
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Band13-10MHz-QPSK-23230-50RB#0



11:09:51 18.11.2023

Band13-10MHz-16QAM-23230-50RB#0



11:09:05 18.11.2023

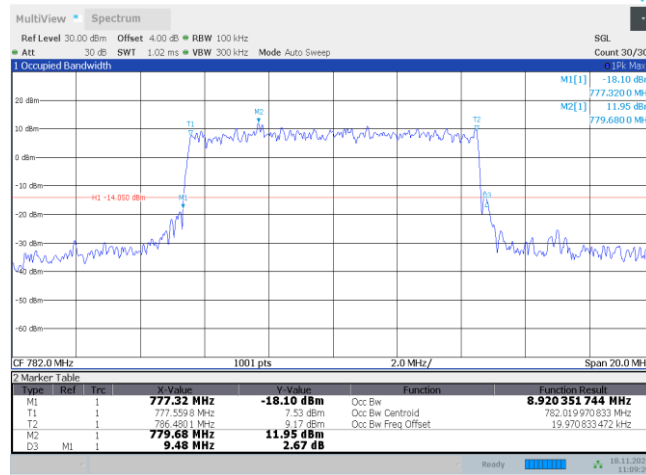


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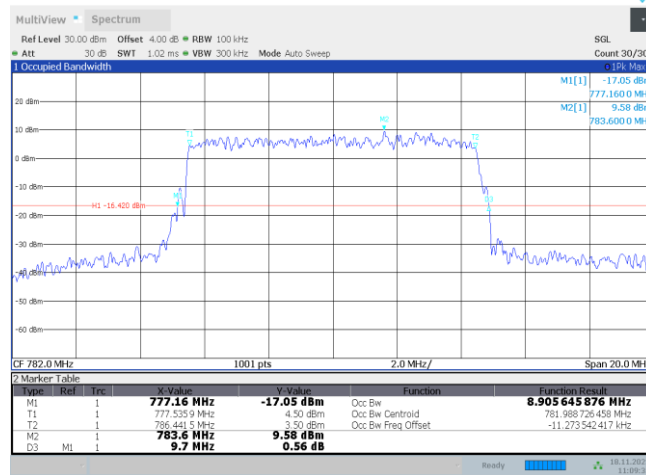
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Band13-10MHz-64QAM-23230-50RB#0



11:09:20 18.11.2023

Band13-10MHz-256QAM-23230-50RB#0



11:09:35 18.11.2023



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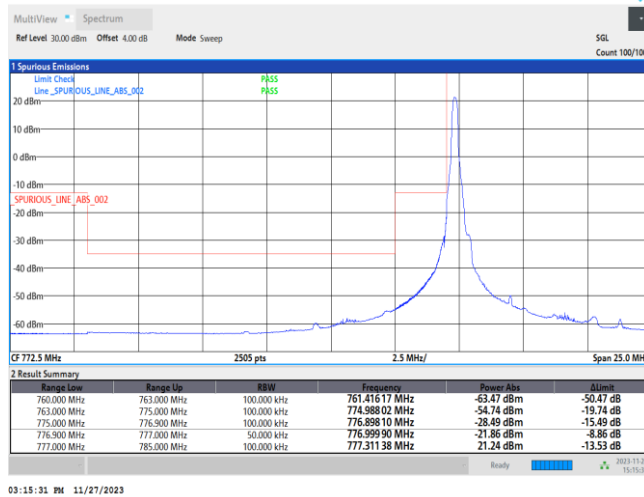
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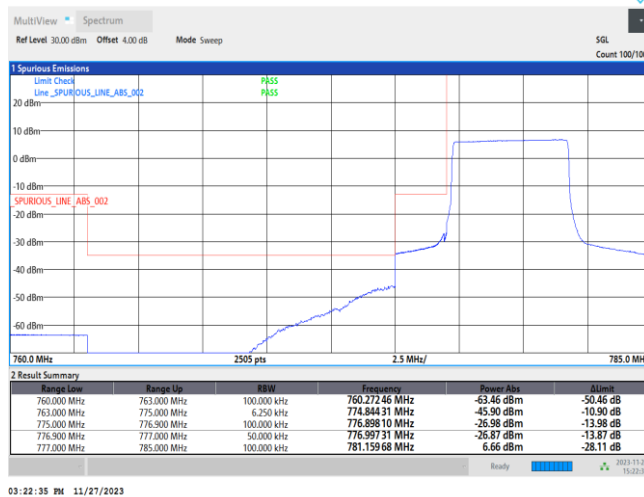
Band Edge

Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0



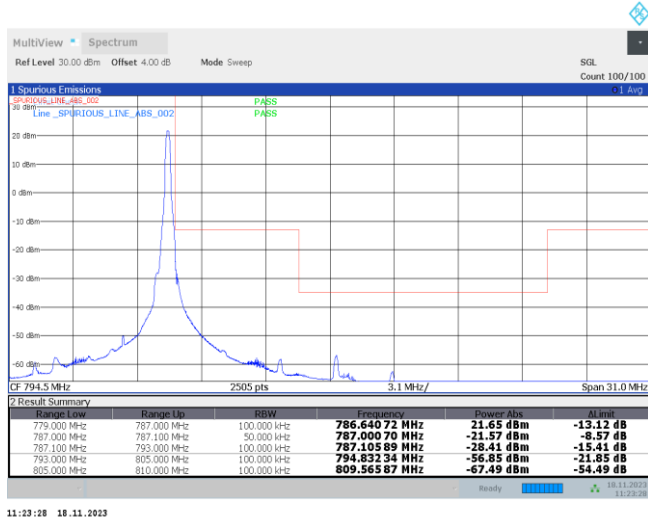
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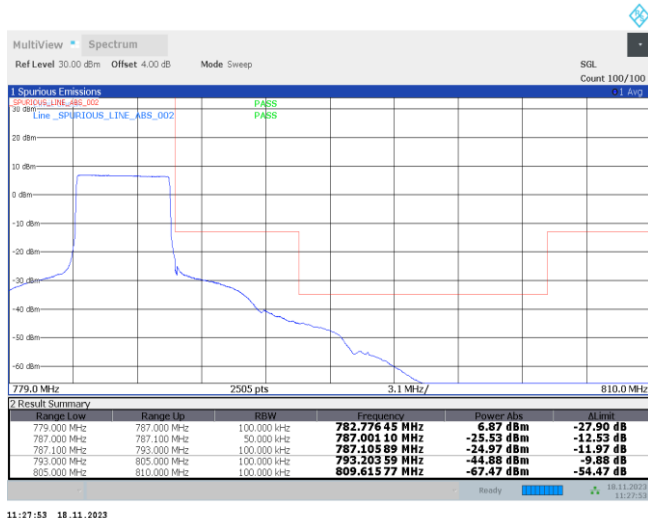
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Band13-5MHz-QPSK-23255-1RB#24



Band13-5MHz-QPSK-23255-25RB#0

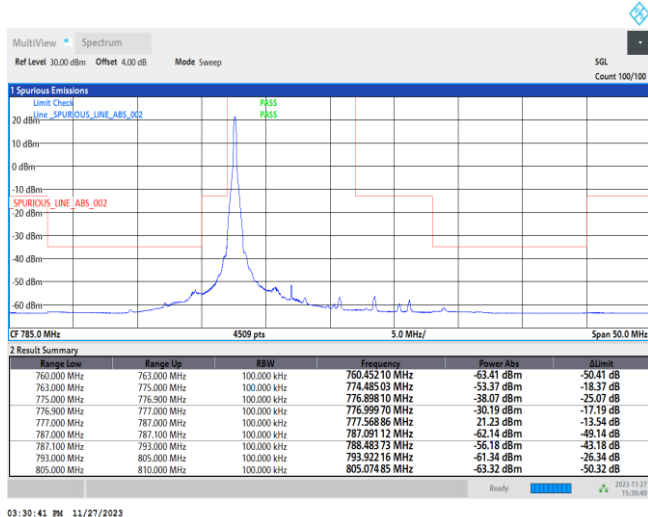


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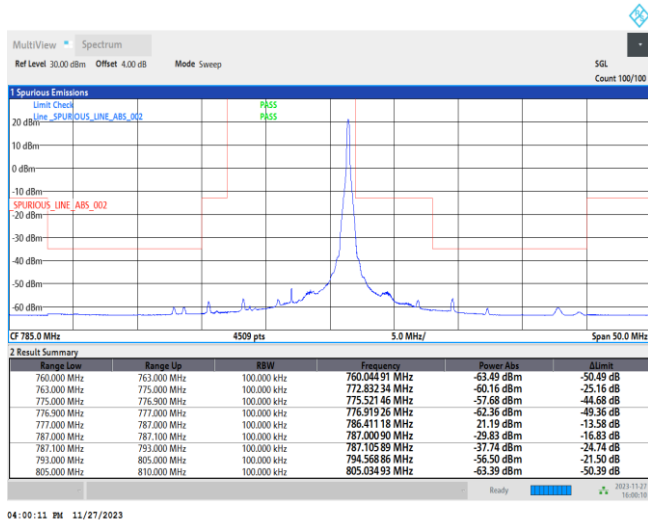
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Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49

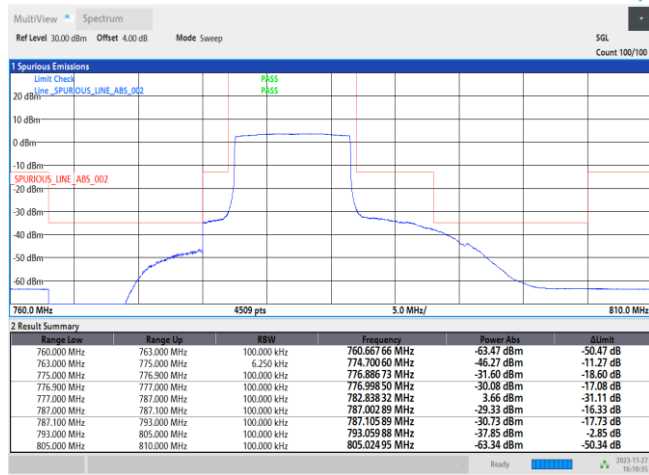


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Band13-10MHz-QPSK-23230-50RB#0



04:10:36 PM 11/27/2023



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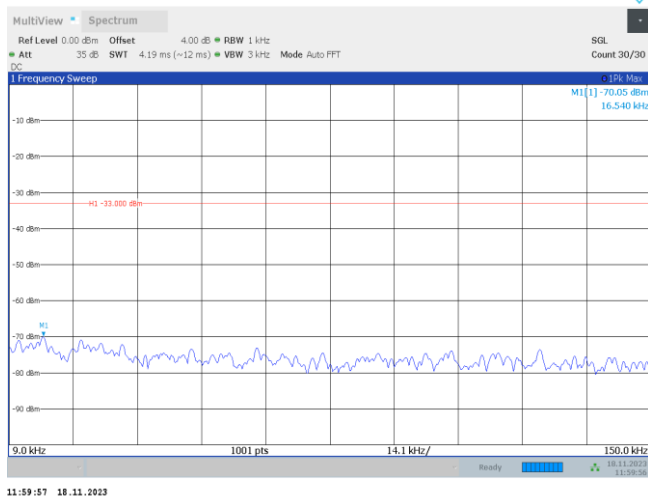
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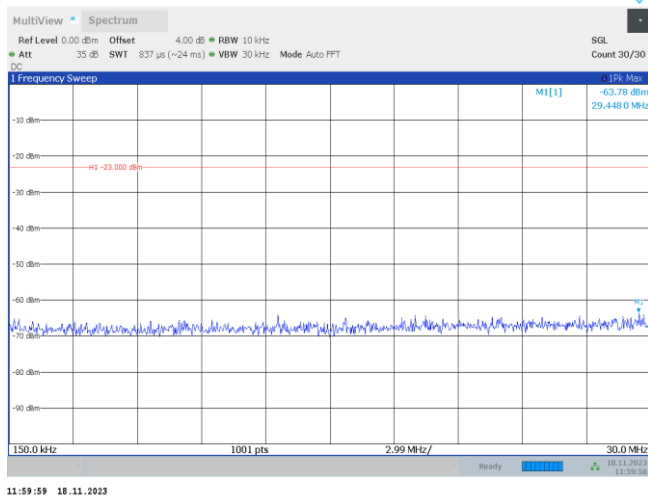
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



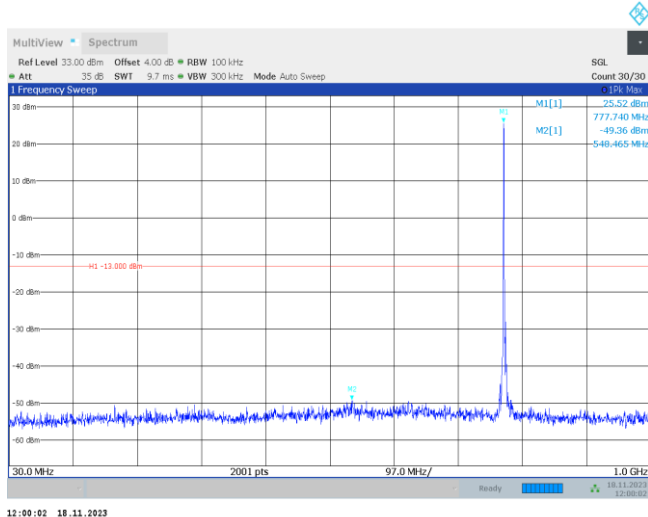
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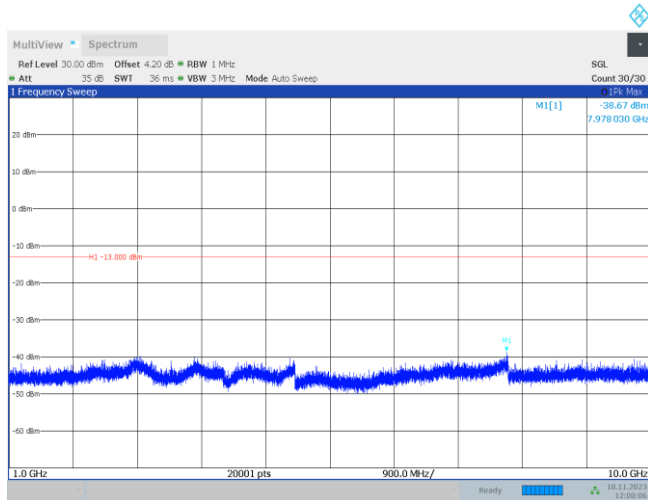
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



12:00:02 18.11.2023

Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



12:00:07 18.11.2023



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 Wireless Laboratory

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Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	41.25	-48.30	25.18	-77.13	-13.00	64.13	Horizontal
2	2332.7700	40.01	-47.48	26.83	-75.90	-13.00	62.90	Horizontal
3	3110.3600	40.34	-46.70	28.37	-73.25	-13.00	60.25	Horizontal
4	3887.9500	39.01	-46.22	28.99	-73.48	-13.00	60.48	Horizontal
5	4665.5400	38.35	-45.80	30.66	-72.04	-13.00	59.04	Horizontal
6	5443.1300	38.94	-45.04	32.46	-68.90	-13.00	55.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	43.34	-48.30	25.18	-75.04	-13.00	62.04	Vertical
2	2332.7700	42.28	-47.48	26.83	-73.63	-13.00	60.63	Vertical
3	3110.3600	42.49	-46.70	28.37	-71.10	-13.00	58.10	Vertical
4	3887.9500	40.64	-46.22	28.99	-71.85	-13.00	58.85	Vertical
5	4665.5400	40.15	-45.80	30.66	-70.24	-13.00	57.24	Vertical
6	5443.1300	40.60	-45.04	32.46	-67.24	-13.00	54.24	Vertical



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Test Band = LTE Band13_5M_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	40.56	-48.30	25.18	-77.82	-13.00	64.82	Horizontal
2	2332.0200	39.96	-47.48	26.83	-75.95	-13.00	62.95	Horizontal
3	3109.3600	39.48	-46.71	28.37	-74.12	-13.00	61.12	Horizontal
4	3886.7000	38.53	-46.22	28.99	-73.96	-13.00	60.96	Horizontal
5	4664.0400	37.65	-45.80	30.66	-72.74	-13.00	59.74	Horizontal
6	5441.3800	38.64	-45.04	32.46	-69.20	-13.00	56.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	42.84	-48.30	25.18	-75.54	-13.00	62.54	Vertical
2	2332.0200	42.80	-47.48	26.83	-73.11	-13.00	60.11	Vertical
3	3109.3600	41.52	-46.71	28.37	-72.08	-13.00	59.08	Vertical
4	3886.7000	40.08	-46.22	28.99	-72.41	-13.00	59.41	Vertical
5	4664.0400	39.69	-45.80	30.66	-70.70	-13.00	57.70	Vertical
6	5441.3800	39.35	-45.04	32.46	-68.49	-13.00	55.49	Vertical



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Wireless Laboratory

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Test Band = LTE Band13_5M_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.22	-48.30	25.18	-75.16	-40.00	35.16	Horizontal
2	2339.5200	42.28	-47.48	26.85	-73.61	-13.00	60.61	Horizontal
3	3119.3600	41.58	-46.66	28.37	-71.97	-13.00	58.97	Horizontal
4	3899.2000	40.41	-46.23	29.00	-72.08	-13.00	59.08	Horizontal
5	4679.0400	40.25	-45.80	30.69	-70.11	-13.00	57.11	Horizontal
6	5458.8800	40.23	-45.07	32.50	-67.60	-13.00	54.60	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.64	-48.30	25.18	-74.74	-40.00	34.74	Vertical
2	2339.5200	42.82	-47.48	26.85	-73.07	-13.00	60.07	Vertical
3	3119.3600	42.34	-46.66	28.37	-71.21	-13.00	58.21	Vertical
4	3899.2000	40.97	-46.23	29.00	-71.52	-13.00	58.52	Vertical
5	4679.0400	39.55	-45.80	30.69	-70.81	-13.00	57.81	Vertical
6	5458.8800	39.56	-45.07	32.50	-68.27	-13.00	55.27	Vertical



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Wireless Laboratories

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Test Band = LTE Band13_5M_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	42.02	-48.29	25.18	-76.35	-40.00	36.35	Horizontal
2	2347.0200	42.17	-47.48	26.87	-73.69	-13.00	60.69	Horizontal
3	3129.3600	41.42	-46.61	28.38	-72.08	-13.00	59.08	Horizontal
4	3911.7000	39.98	-46.23	29.01	-72.49	-13.00	59.49	Horizontal
5	4694.0400	39.36	-45.80	30.73	-70.97	-13.00	57.97	Horizontal
6	5476.3800	39.36	-45.10	32.54	-68.46	-13.00	55.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	42.65	-48.29	25.18	-75.72	-40.00	35.72	Vertical
2	2347.0200	43.28	-47.48	26.87	-72.58	-13.00	59.58	Vertical
3	3129.3600	42.12	-46.61	28.38	-71.38	-13.00	58.38	Vertical
4	3911.7000	41.10	-46.23	29.01	-71.37	-13.00	58.37	Vertical
5	4694.0400	40.48	-45.80	30.73	-69.85	-13.00	56.85	Vertical
6	5476.3800	39.42	-45.10	32.54	-68.40	-13.00	55.40	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.80	0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.30	0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.20	-0.000256	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	2.80	0.003581	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.00	0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	1.90	0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	1.90	0.002430	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.90	0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.80	0.002302	PASS

---End of Attachment---



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