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Appendix B.8

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.57	20.75	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.78	20.96	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.52	20.7	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.64	19.82	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.54	20.72	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.82	21	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.49	20.67	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.66	19.84	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.56	20.74	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.81	20.99	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.5	20.68	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.66	19.84	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.8	19.98	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.91	20.09	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.71	19.89	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.61	18.79	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.75	19.93	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.06	20.24	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.76	19.94	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.64	18.82	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.74	19.92	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.1	20.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.67	19.85	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.67	18.85	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.62	18.8	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.91	19.09	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.65	18.83	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.64	17.82	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.64	18.82	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.99	19.17	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.69	18.87	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.67	17.85	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.69	18.87	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.98	19.16	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.69	18.87	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.68	17.86	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.64	20.82	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.78	20.96	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.52	20.7	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.67	19.85	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.88	20.06	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23	20.18	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.83	20.01	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.66	18.84	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.77	18.95	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.96	19.14	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.74	18.92	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.67	17.85	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	5.34	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.10	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.38	13	PASS



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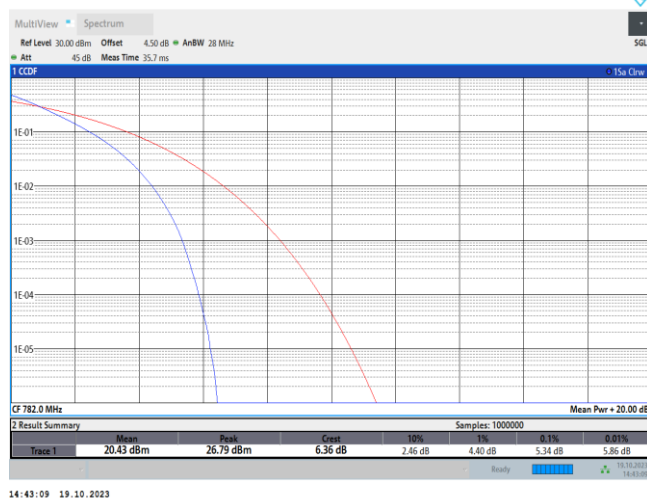
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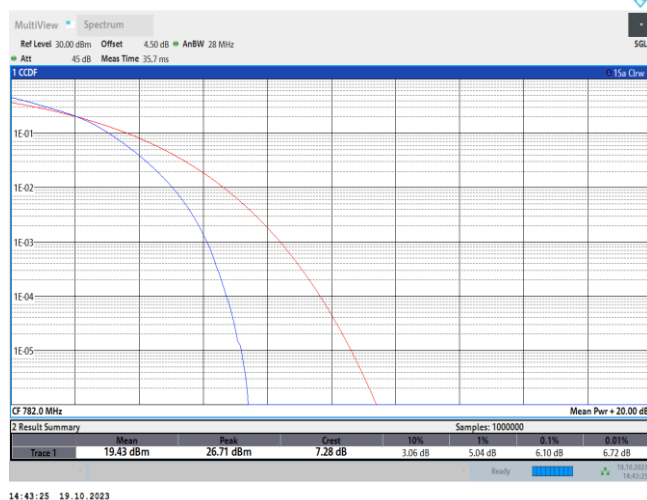
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Test Graphs

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



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



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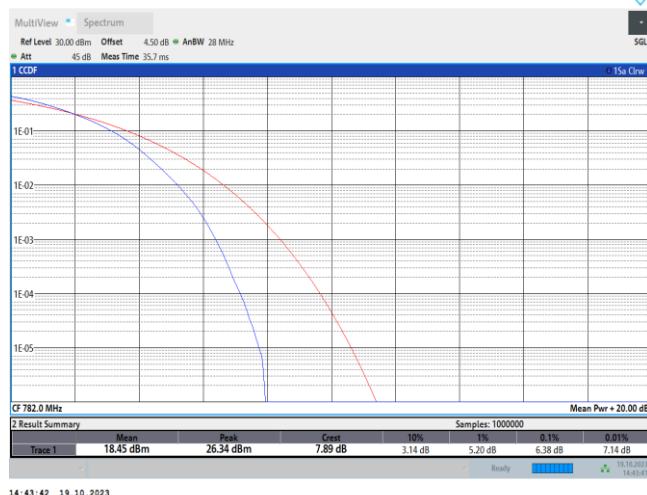
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23230	25RB#0	4.472	5.00	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.468	5.04	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.482	5.03	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.917	9.78	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.912	9.78	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.922	9.86	PASS



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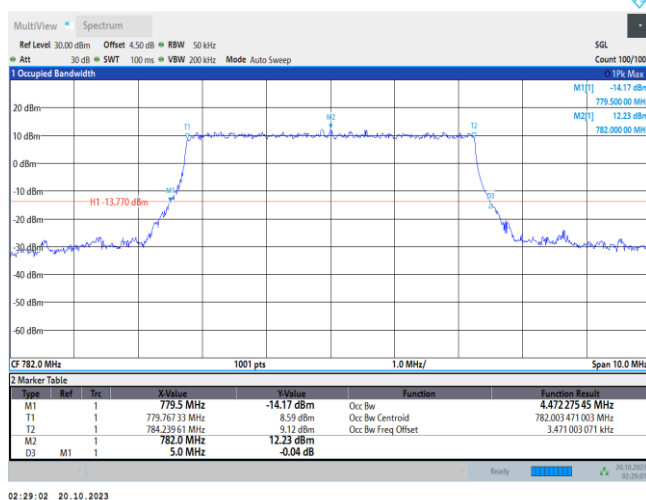
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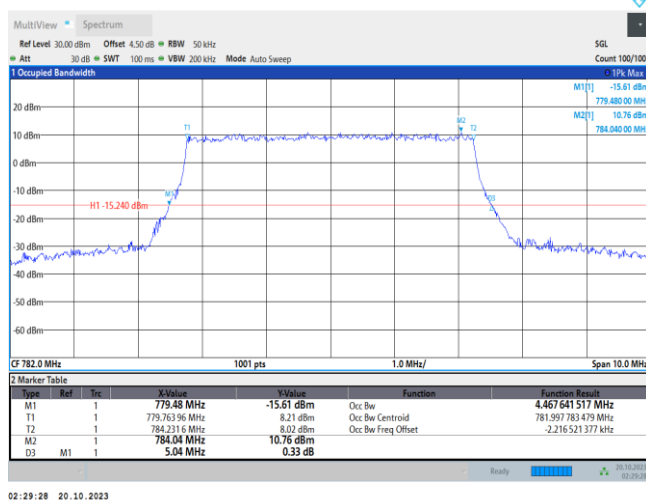
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Test Graphs

Band13-5MHz-QPSK-23230-25RB#0



Band13-5MHz-16QAM-23230-25RB#0

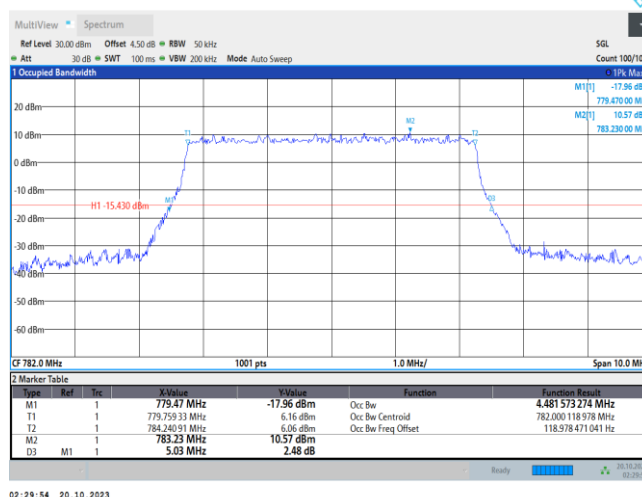


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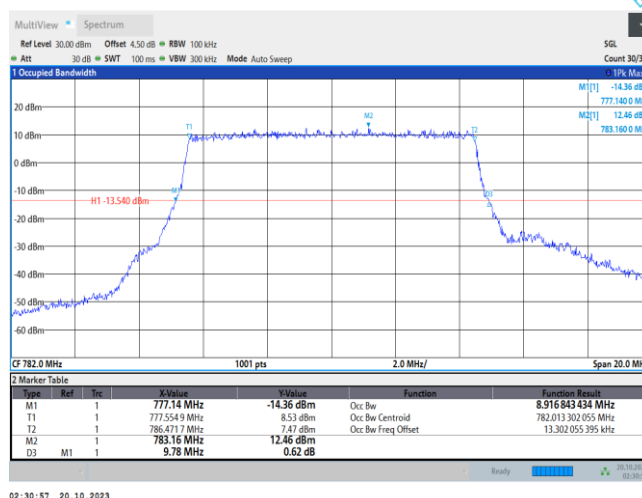
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Band13-10MHz-QPSK-23230-50RB#0



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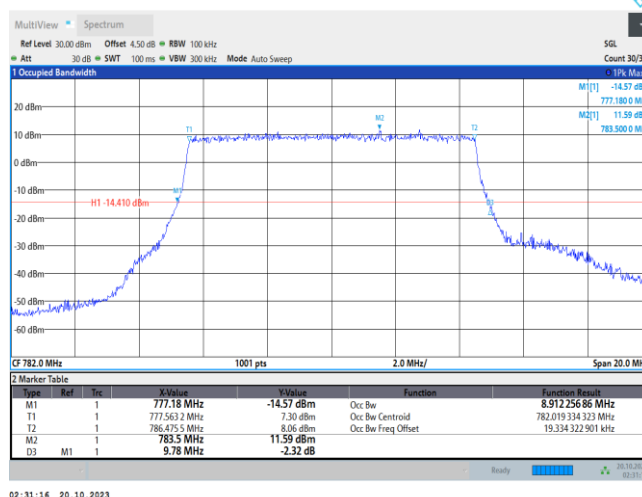
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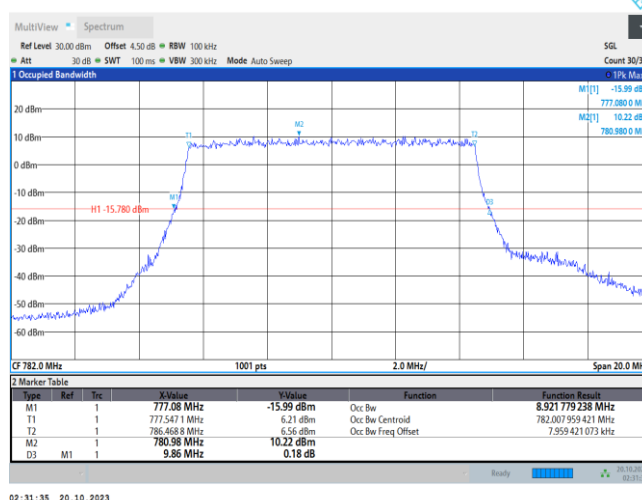
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Band13-10MHz-64QAM-23230-50RB#0



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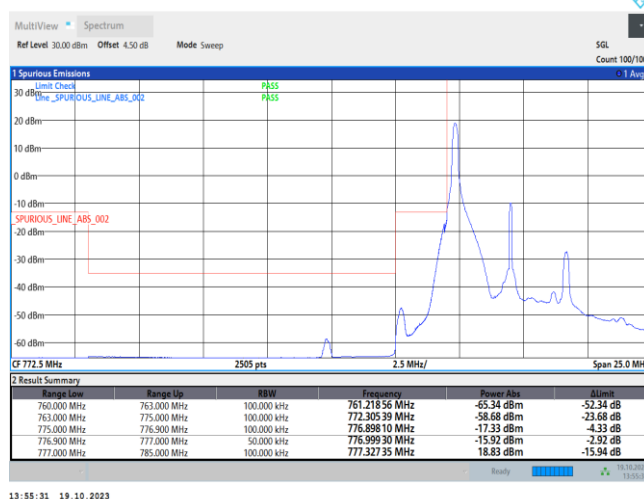
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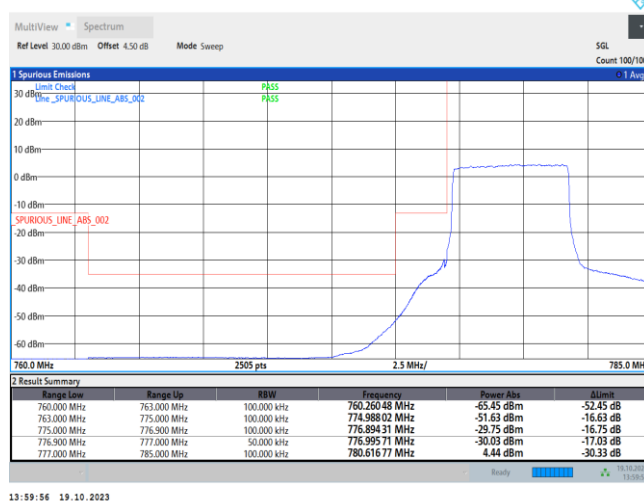
Band Edge

Test Graphs

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



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



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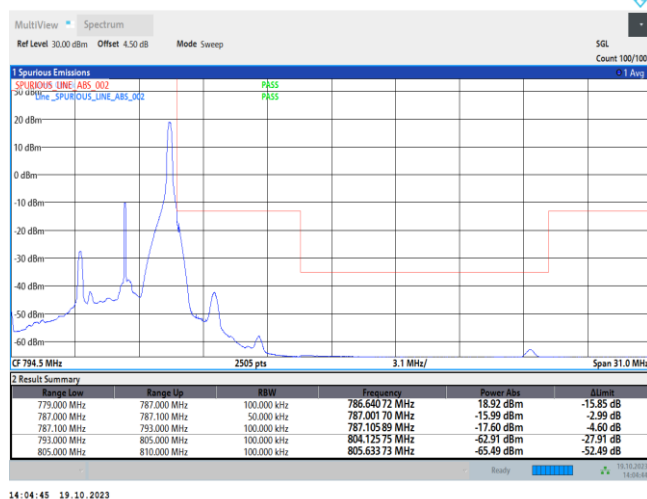
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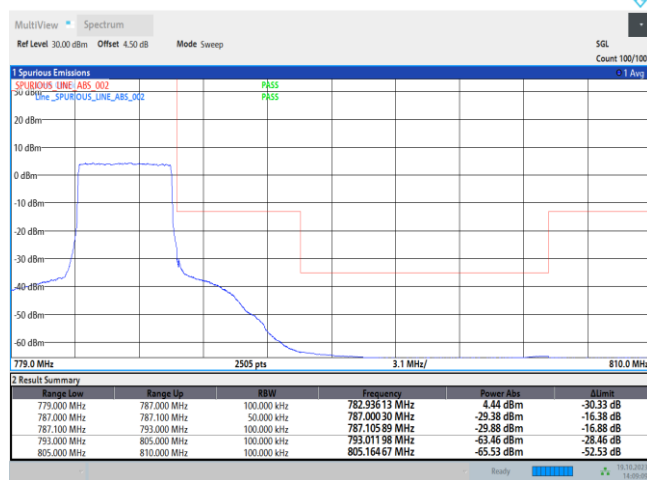
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Band13-5MHz-QPSK-23255-1RB#24



14:04:45 19.10.2023

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



14:09:09 19.10.2023



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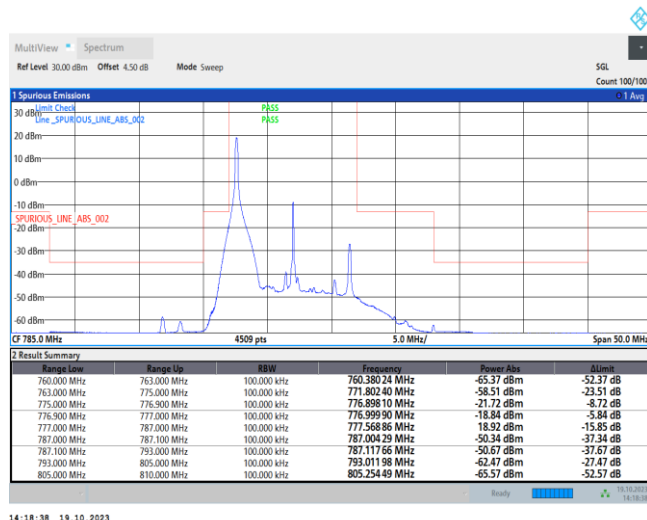
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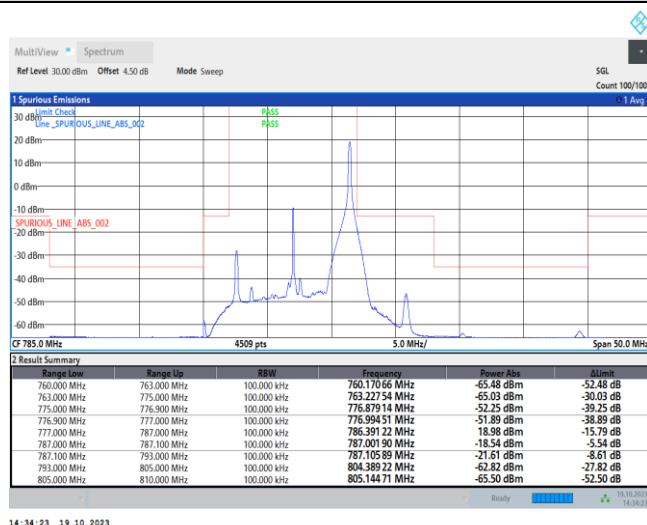
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Band13-10MHz-QPSK-23230-1RB#0



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



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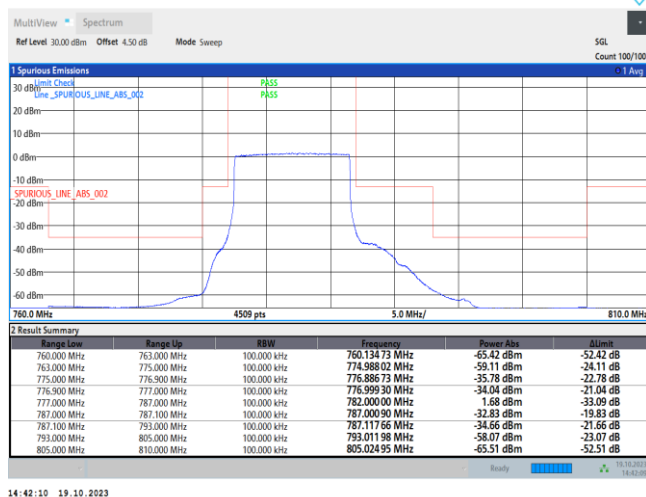
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Band13-10MHz-QPSK-23230-50RB#0



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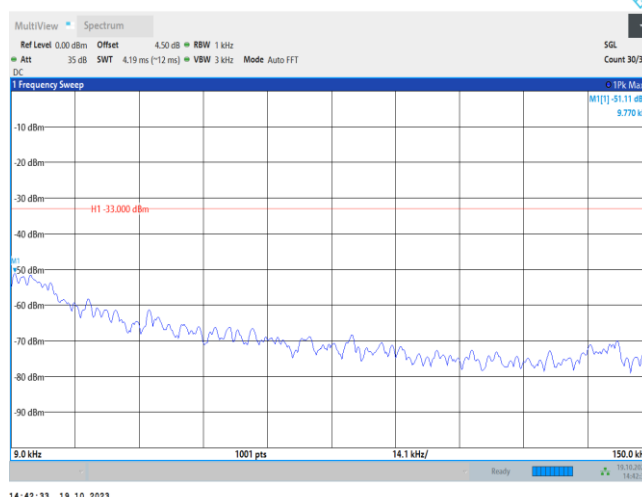
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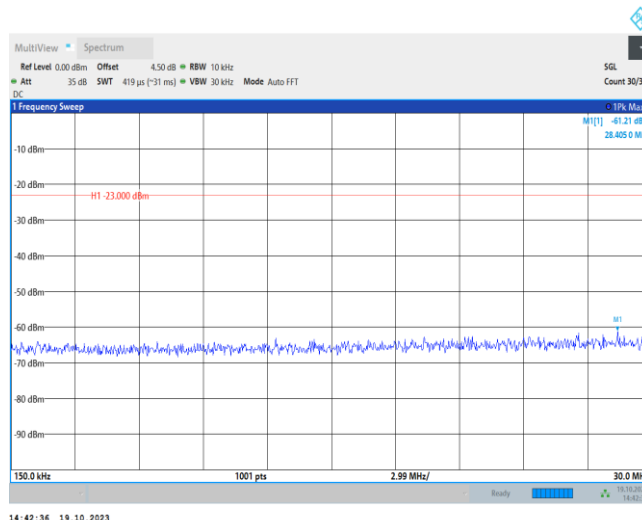
Conducted Spurious Emission

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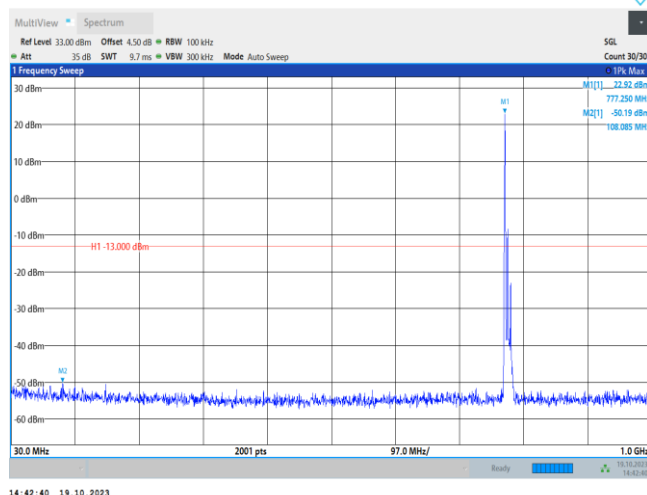
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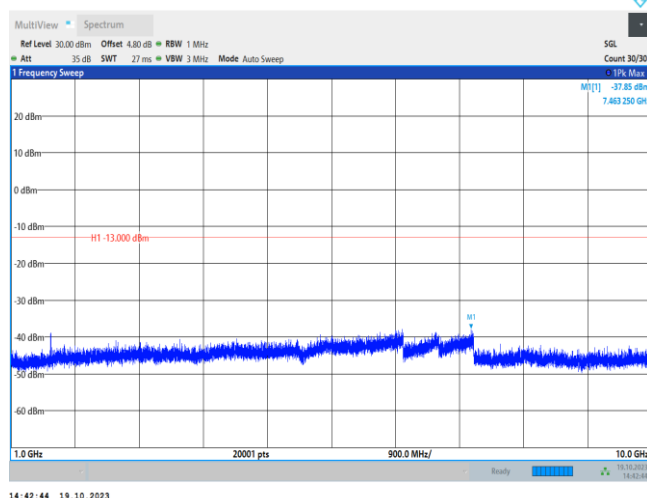
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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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	57.90	-48.30	25.18	-60.48	-13.00	47.48	Horizontal
2	2332.7700	61.52	-47.48	26.83	-54.39	-13.00	41.39	Horizontal
3	3110.3600	41.78	-46.70	28.37	-71.81	-13.00	58.81	Horizontal
4	3887.9500	40.97	-46.22	28.99	-71.52	-13.00	58.52	Horizontal
5	4665.5400	39.75	-45.80	30.66	-70.64	-13.00	57.64	Horizontal
6	5441.3000	39.93	-45.04	32.46	-67.91	-13.00	54.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	52.65	-48.30	25.18	-65.73	-13.00	52.73	Vertical
2	2332.7700	60.14	-47.48	26.83	-55.77	-13.00	42.77	Vertical
3	3110.3600	42.03	-46.70	28.37	-71.56	-13.00	58.56	Vertical
4	3887.9500	41.62	-46.22	28.99	-70.87	-13.00	57.87	Vertical
5	4665.5400	40.05	-45.80	30.66	-70.34	-13.00	57.34	Vertical
6	5441.3000	40.66	-45.04	32.46	-67.18	-13.00	54.18	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	56.04	-48.30	25.18	-62.34	-13.00	49.34	Horizontal
2	2332.0200	56.19	-47.48	26.83	-59.72	-13.00	46.72	Horizontal
3	3109.3600	41.89	-46.71	28.37	-71.71	-13.00	58.71	Horizontal
4	3886.7000	40.19	-46.22	28.99	-72.30	-13.00	59.30	Horizontal
5	4664.0400	39.12	-45.80	30.66	-71.27	-13.00	58.27	Horizontal
6	5441.3800	39.58	-45.04	32.46	-68.26	-13.00	55.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	52.11	-48.30	25.18	-66.27	-13.00	53.27	Vertical
2	2332.0200	56.53	-47.48	26.83	-59.38	-13.00	46.38	Vertical
3	3109.3600	42.50	-46.71	28.37	-71.10	-13.00	58.10	Vertical
4	3886.7000	41.21	-46.22	28.99	-71.28	-13.00	58.28	Vertical
5	4664.0400	40.54	-45.80	30.66	-69.85	-13.00	56.85	Vertical
6	5441.3800	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 = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	57.14	-48.30	25.18	-61.24	-40.00	21.24	Horizontal
2	2339.5200	63.60	-47.48	26.85	-52.29	-13.00	39.29	Horizontal
3	3119.3600	43.54	-46.66	28.37	-70.01	-13.00	57.01	Horizontal
4	3899.2000	40.53	-46.23	29.00	-71.96	-13.00	58.96	Horizontal
5	4679.0400	39.87	-45.80	30.69	-70.49	-13.00	57.49	Horizontal
6	5458.8800	40.54	-45.07	32.50	-67.29	-13.00	54.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	58.05	-48.30	25.18	-60.33	-40.00	20.33	Vertical
2	2339.5200	68.08	-47.48	26.85	-47.81	-13.00	34.81	Vertical
3	3119.3600	42.34	-46.66	28.37	-71.21	-13.00	58.21	Vertical
4	3899.2000	43.40	-46.23	29.00	-69.09	-13.00	56.09	Vertical
5	4679.0400	40.08	-45.80	30.69	-70.28	-13.00	57.28	Vertical
6	5458.8800	40.28	-45.07	32.50	-67.55	-13.00	54.55	Vertical



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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	57.18	-48.29	25.18	-61.19	-40.00	21.19	Horizontal
2	2347.0200	73.07	-47.48	26.87	-42.79	-13.00	29.79	Horizontal
3	3129.3600	43.31	-46.61	28.38	-70.19	-13.00	57.19	Horizontal
4	3911.7000	40.74	-46.23	29.01	-71.73	-13.00	58.73	Horizontal
5	4694.0400	40.10	-45.80	30.73	-70.23	-13.00	57.23	Horizontal
6	5476.3800	40.19	-45.10	32.54	-67.63	-13.00	54.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	56.31	-48.29	25.18	-62.06	-40.00	22.06	Vertical
2	2347.0200	72.42	-47.48	26.87	-43.44	-13.00	30.44	Vertical
3	3129.3600	42.70	-46.61	28.38	-70.80	-13.00	57.80	Vertical
4	3911.7000	41.49	-46.23	29.01	-70.98	-13.00	57.98	Vertical
5	4694.0400	40.52	-45.80	30.73	-69.81	-13.00	56.81	Vertical
6	5476.3800	40.48	-45.10	32.54	-67.34	-13.00	54.34	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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-8.30	-0.010614	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-8.30	-0.010614	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-6.90	-0.008824	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-6.00	-0.007673	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.70	-0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-8.60	-0.010997	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-9.30	-0.011893	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-8.80	-0.011253	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-6.10	-0.007801	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-9.80	-0.012532	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-8.00	-0.010230	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-9.80	-0.012532	PASS

---End of Attachment---



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