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Appendix B.8

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	23.30	18.45	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.46	18.61	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.25	18.40	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.27	17.42	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.32	18.47	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.65	18.80	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.35	18.50	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.47	17.62	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.39	18.54	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.63	18.78	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.42	18.57	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.50	17.65	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.50	17.65	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.81	17.96	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.57	17.72	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.31	16.46	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.54	17.69	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.96	18.11	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.69	17.84	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.53	16.68	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.66	17.81	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.00	18.15	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.69	17.84	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.56	16.71	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.48	16.63	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.64	16.79	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#24	21.44	16.59	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.32	15.47	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.49	16.64	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.80	16.95	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.56	16.71	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.52	15.67	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.55	16.70	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.91	17.06	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.67	16.82	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.54	15.69	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.48	18.63	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.63	18.78	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.49	18.64	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.47	17.62	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.82	17.97	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.90	18.05	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.84	17.99	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.54	16.69	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.69	16.84	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.82	16.97	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.75	16.90	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.53	15.68	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	5.78	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.64	13	PASS



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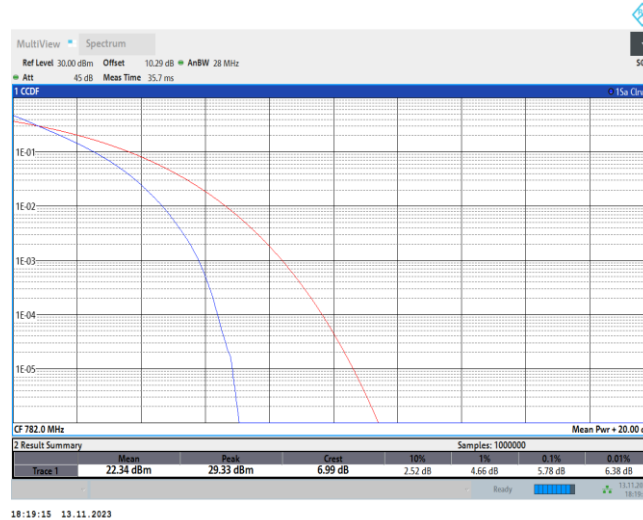
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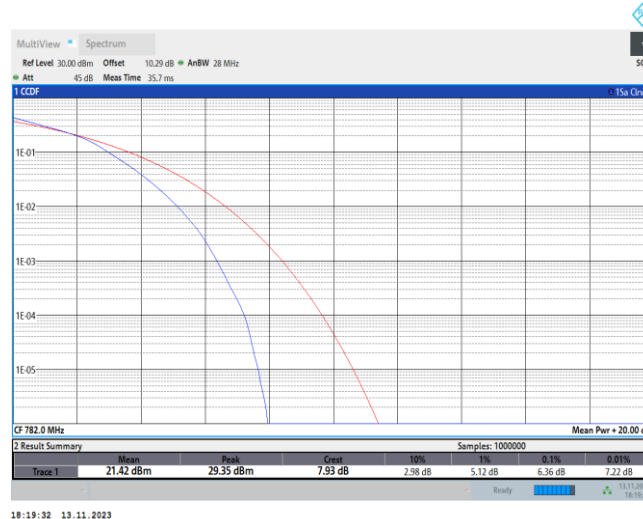
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Test Graphs

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



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



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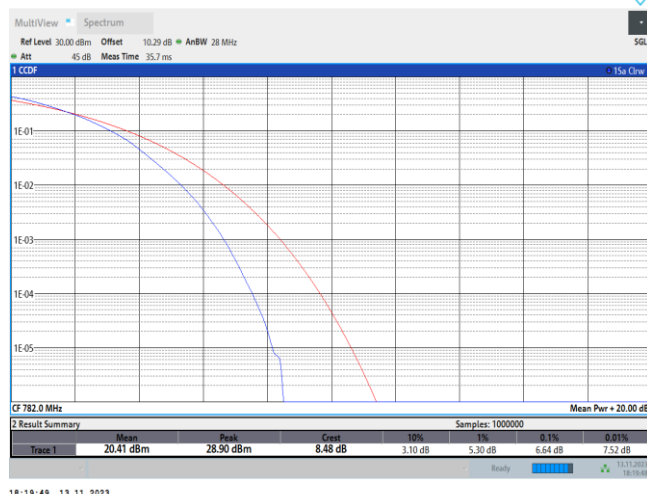
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Band13-10MHz-64QAM-23230-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.479	4.93	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.474	5.02	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.478	5.02	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.472	5.08	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.474	5.07	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.469	5.05	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.48	5.03	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.481	5.05	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.486	5.05	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.953	9.83	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.912	9.83	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.932	9.80	PASS



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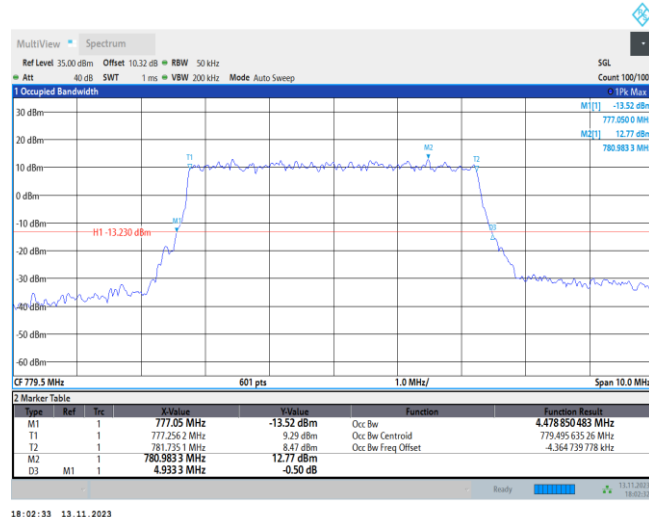
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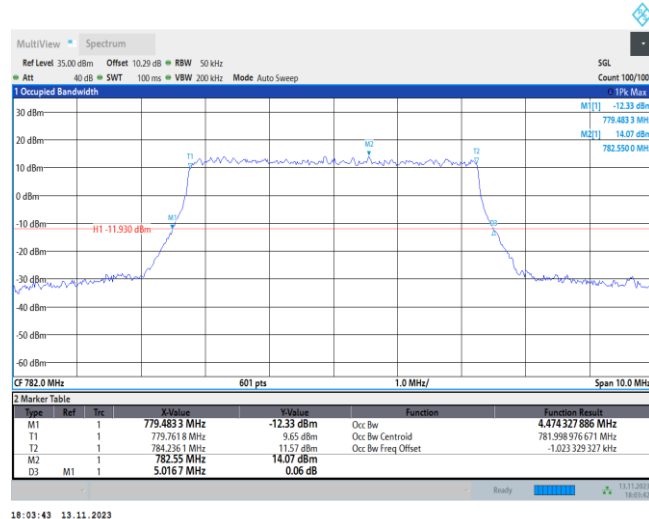
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Test Graphs

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



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



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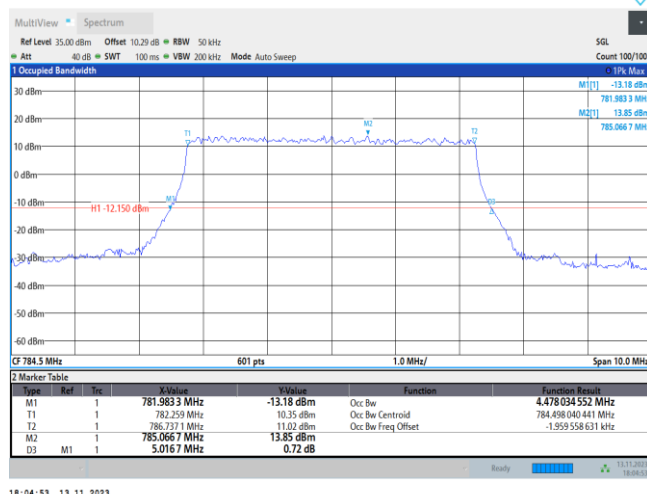
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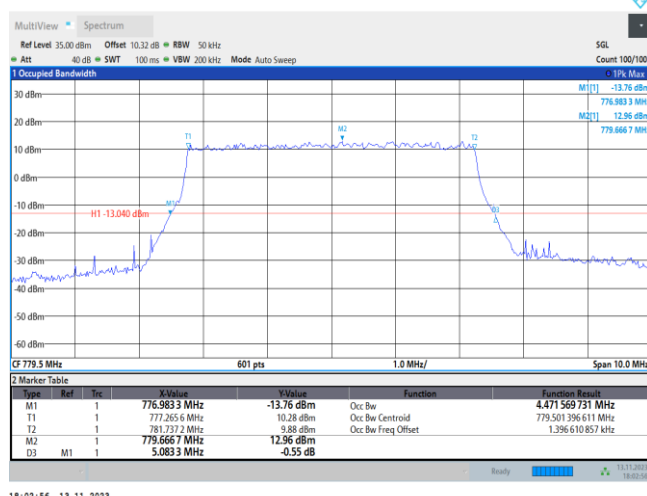
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Band13-5MHz-QPSK-23255-25RB#0



Band13-5MHz-16QAM-23205-25RB#0



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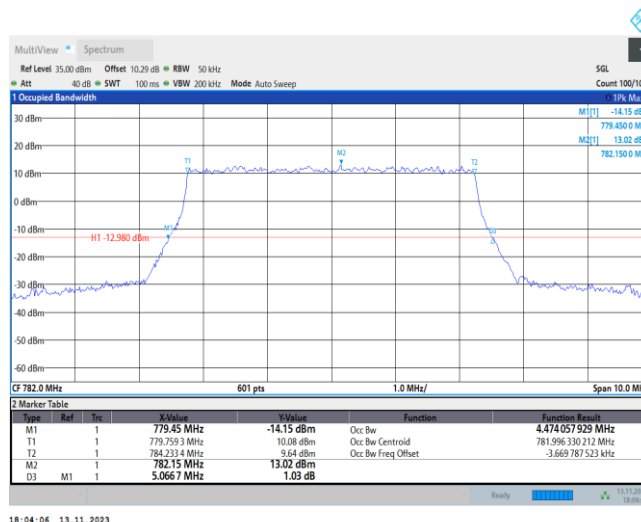
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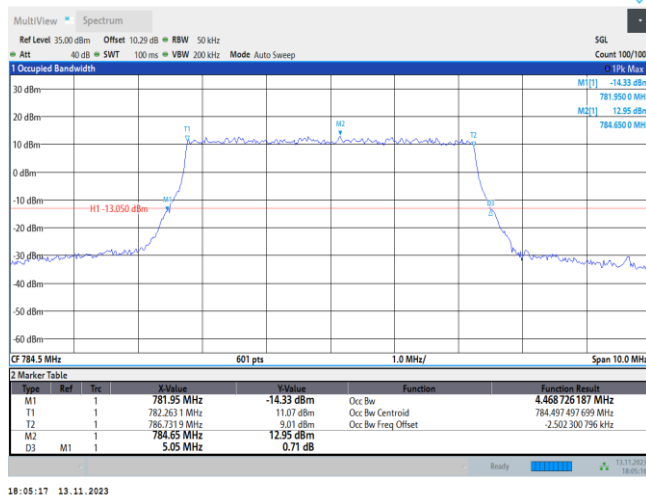
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Report No.: XEWM2311000573RG01

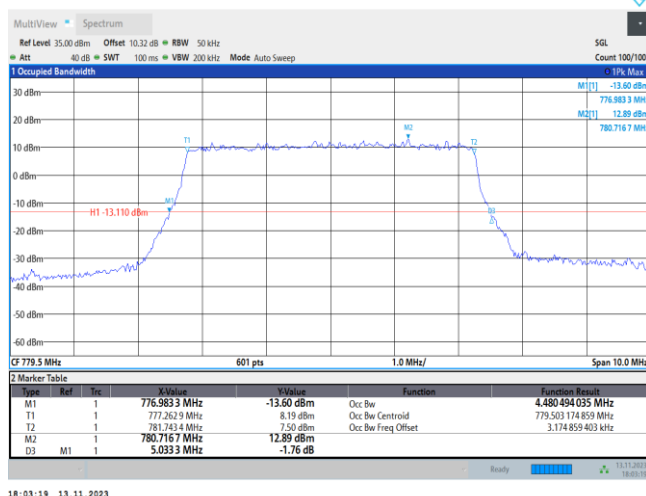
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Band13-5MHz-16QAM-23255-25RB#0



Band13-5MHz-64QAM-23205-25RB#0



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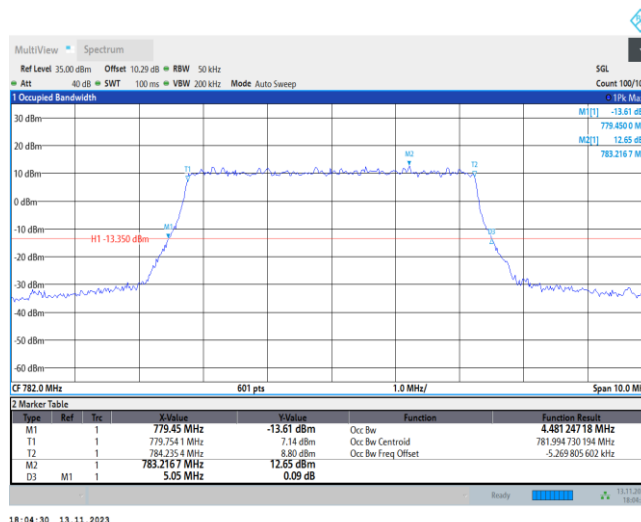
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Band13-5MHz-64QAM-23230-25RB#0



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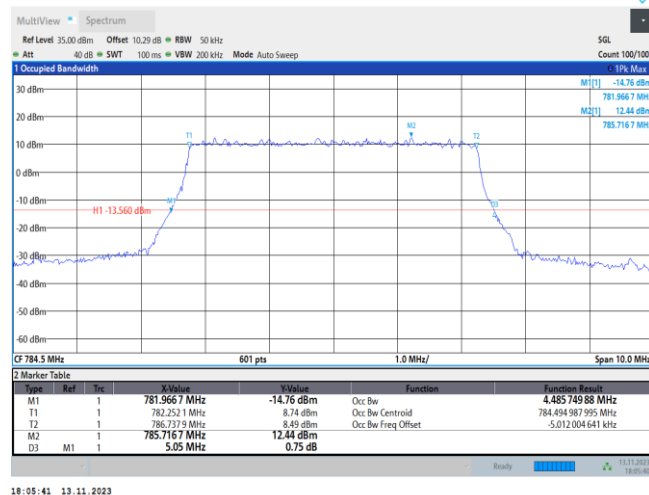
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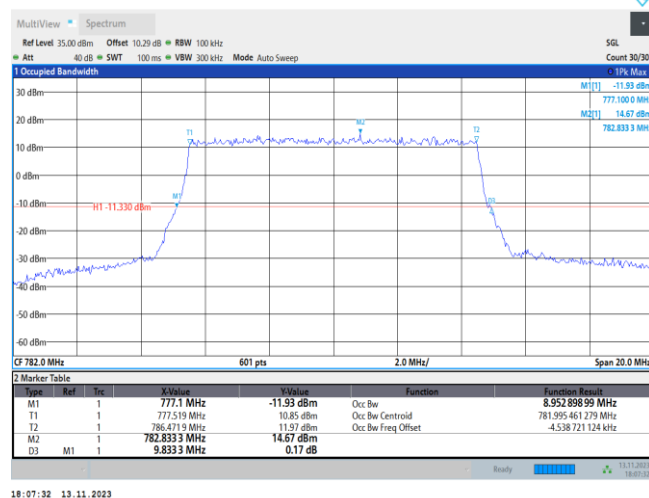
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Band13-5MHz-64QAM-23255-25RB#0



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



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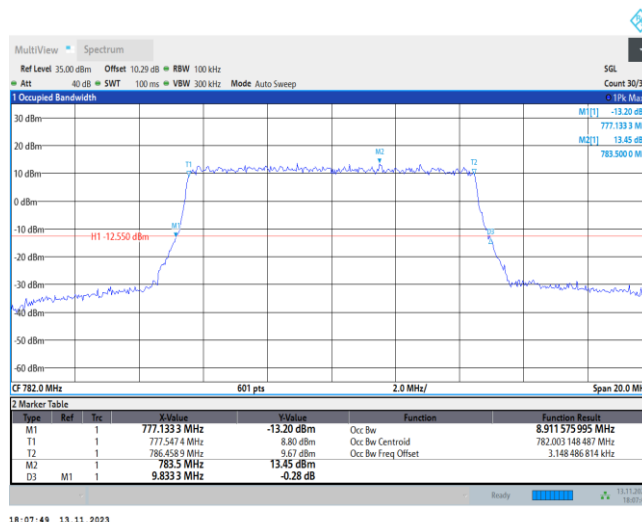
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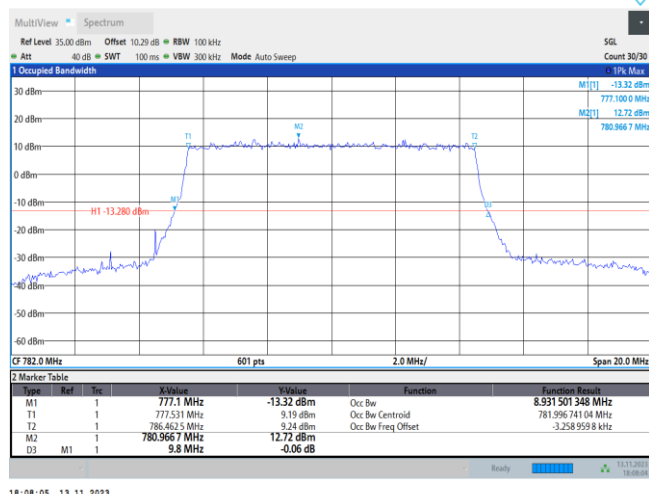
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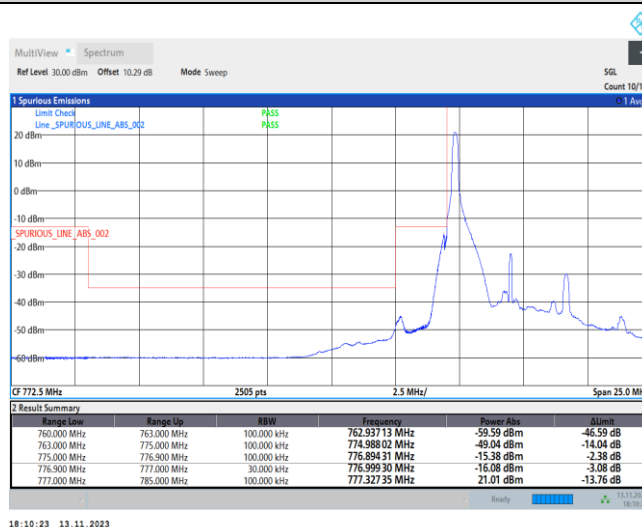
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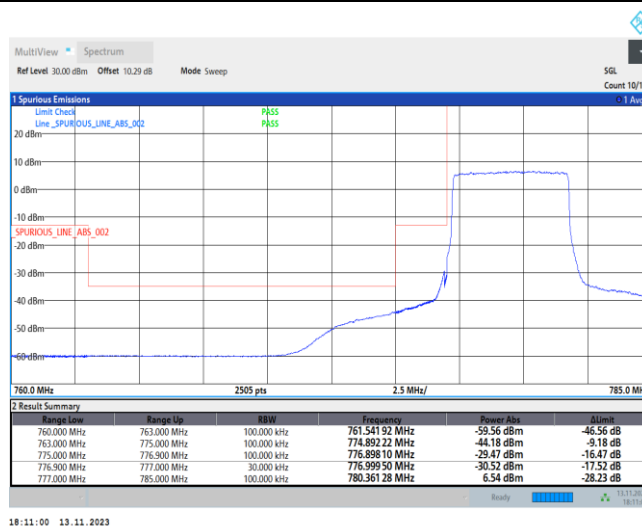
Band Edge

Test Graphs

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



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



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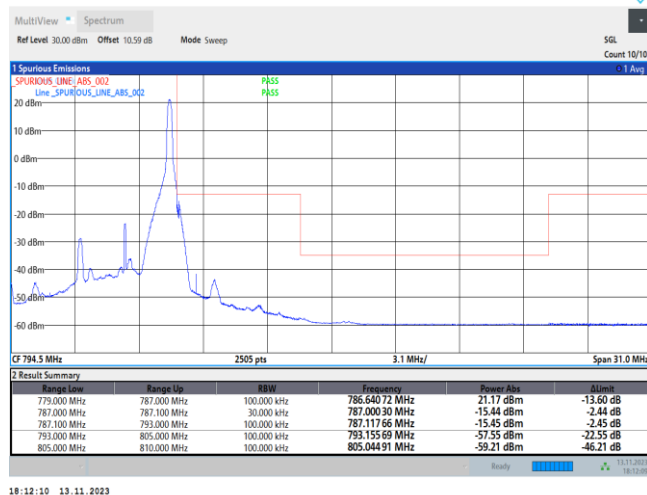
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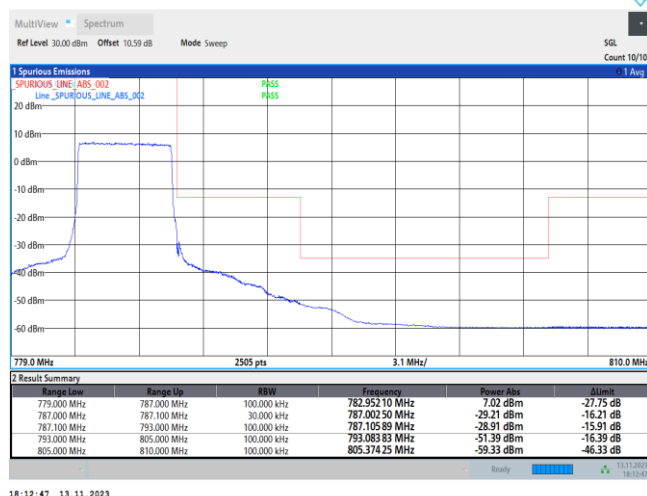
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Band13-5MHz-QPSK-23255-1RB#24



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



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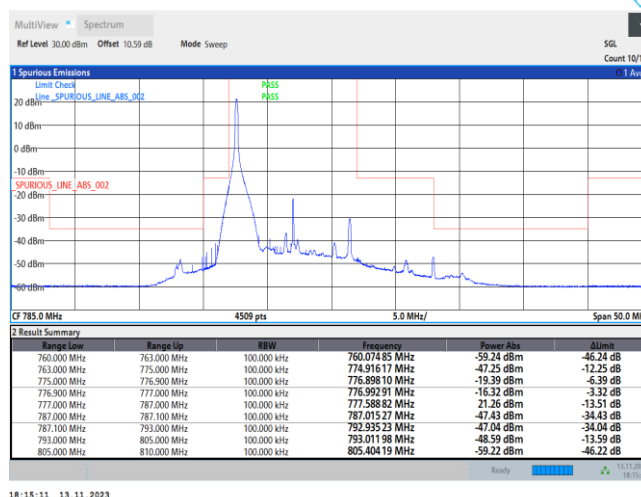
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Band13-10MHz-QPSK-23230-1RB#0



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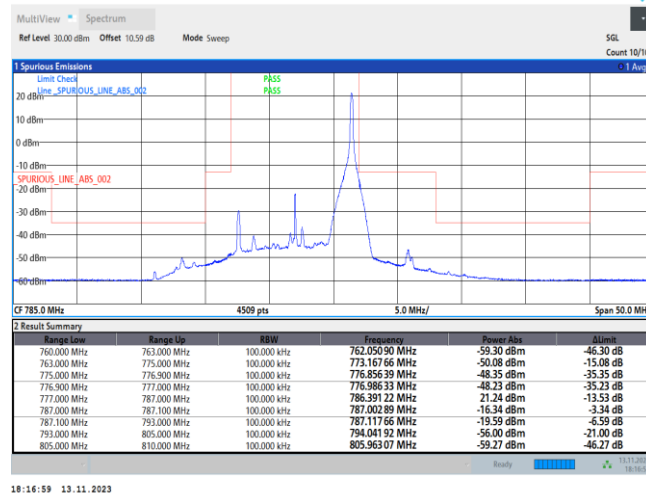
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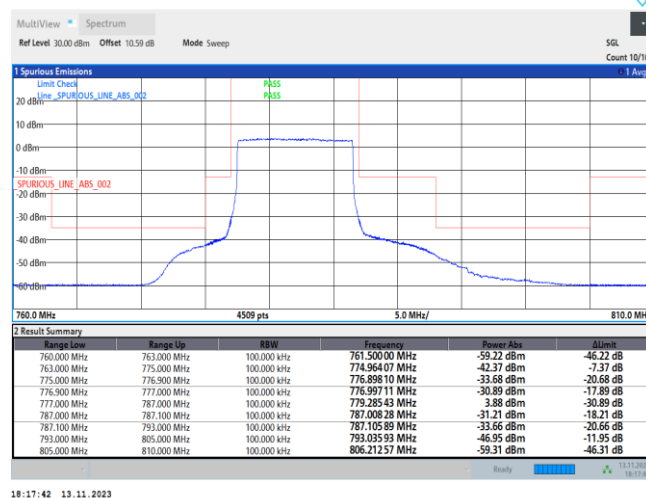
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Band13-10MHz-QPSK-23230-50RB#0



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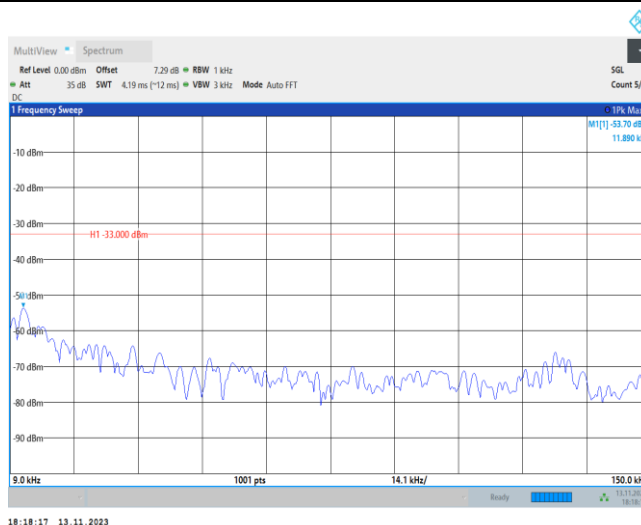
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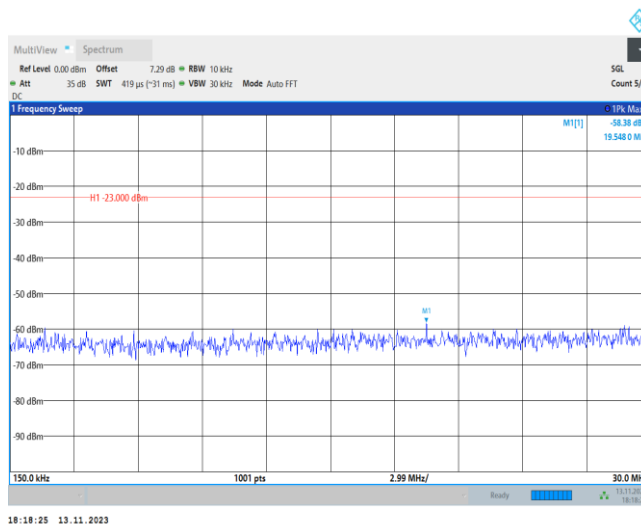
Conducted Spurious Emission

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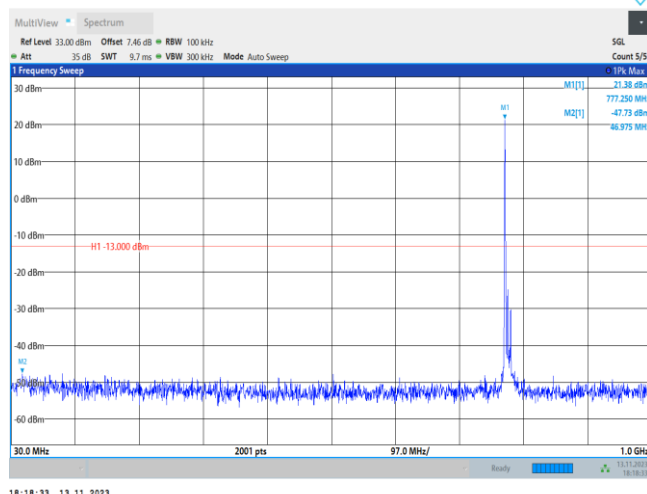
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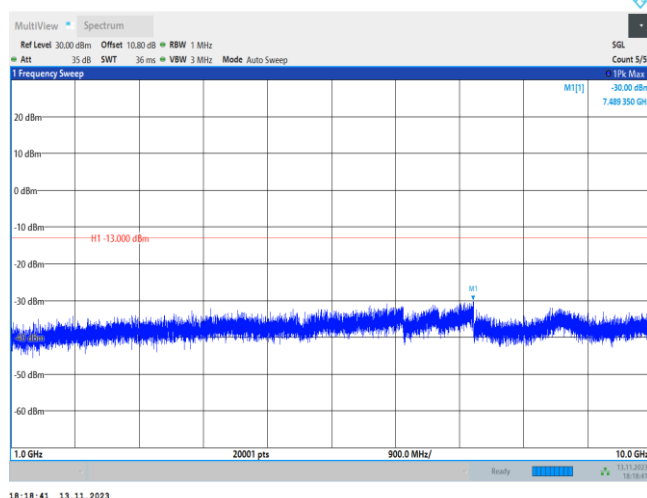
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_B13-5M

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1428.8036	24.05	-19.21	25.74	-64.68	-13.00	51.68	Horizontal
2	2332.1665	28.15	-18.39	27.79	-57.71	-13.00	44.71	Horizontal
3	3109.5555	55.19	-50.44	30.14	-60.37	-13.00	47.37	Horizontal
4	5137.9069	51.91	-47.07	33.58	-56.84	-13.00	43.84	Horizontal
5	7486.8743	49.91	-43.27	36.63	-51.99	-13.00	38.99	Horizontal
6	9525.0263	49.98	-41.56	39.15	-47.69	-13.00	34.69	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344.043	25.85	-19.41	25.86	-62.96	-13.00	49.96	Vertical
2	1771.0964	29.09	-19.16	25.58	-59.75	-13.00	46.75	Vertical
3	2418.1773	26.89	-17.56	27.84	-58.09	-13.00	45.09	Vertical
4	3750.7875	53.52	-49.36	30.50	-60.60	-13.00	47.60	Vertical
5	6077.0038	50.91	-45.42	34.45	-55.32	-13.00	42.32	Vertical
6	8428.7714	49.21	-43.13	37.83	-51.35	-13.00	38.35	Vertical



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Test Band = LTE_B13-5M

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1255.782	24.41	-19.85	25.69	-65.01	-13.00	52.01	Horizontal
2	1858.1073	24.40	-18.80	25.82	-63.84	-13.00	50.84	Horizontal
3	2339.6675	26.09	-18.52	27.84	-59.85	-13.00	46.85	Horizontal
4	2809.7262	25.98	-16.98	28.66	-57.60	-13.00	44.60	Horizontal
5	4039.202	53.24	-49.32	30.94	-60.40	-13.00	47.40	Horizontal
6	7958.6979	49.82	-43.53	37.48	-51.49	-13.00	38.49	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1126.0158	23.69	-19.35	25.85	-65.07	-13.00	52.07	Vertical
2	1559.82	25.27	-19.24	25.88	-63.35	-40.00	23.35	Vertical
3	2448.6811	25.26	-17.70	27.90	-59.80	-13.00	46.80	Vertical
4	5164.1582	52.11	-46.85	33.23	-56.77	-13.00	43.77	Vertical
5	6972.6986	50.57	-44.37	36.45	-52.61	-13.00	39.61	Vertical
6	9449.7725	49.75	-41.34	39.00	-47.85	-13.00	34.85	Vertical



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Test Band = LTE_B13-5M

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344.043	26.99	-19.41	25.86	-61.82	-13.00	48.82	Horizontal
2	1766.0958	28.64	-19.16	25.56	-60.22	-13.00	47.22	Horizontal
3	2347.1684	27.15	-18.64	27.88	-58.87	-13.00	45.87	Horizontal
4	3642.6321	53.12	-49.21	30.37	-60.98	-13.00	47.98	Horizontal
5	5705.9853	51.36	-44.87	33.55	-55.22	-13.00	42.22	Horizontal
6	7976.5488	50.61	-43.45	37.45	-50.65	-13.00	37.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1243.7805	24.09	-19.82	25.69	-65.30	-13.00	52.30	Vertical
2	1774.0968	30.05	-19.16	25.60	-58.77	-13.00	45.77	Vertical
3	2410.4263	25.57	-17.53	27.82	-59.40	-13.00	46.40	Vertical
4	4237.3119	52.61	-48.51	31.95	-59.21	-13.00	46.21	Vertical
5	7481.9741	50.01	-43.30	36.64	-51.91	-13.00	38.91	Vertical
6	9749.7375	46.61	-41.04	38.80	-50.89	-13.00	37.89	Vertical



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Test Band = LTE_B13-10M

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344.043	24.94	-19.41	25.86	-63.87	-13.00	50.87	Horizontal
2	1767.0959	25.69	-19.16	25.57	-63.16	-13.00	50.16	Horizontal
3	2332.6666	27.36	-18.40	27.80	-58.50	-13.00	45.50	Horizontal
4	3110.6055	54.99	-50.42	30.14	-60.55	-13.00	47.55	Horizontal
5	5053.5527	51.28	-47.51	33.41	-58.08	-13.00	45.08	Horizontal
6	7484.4242	50.15	-43.29	36.63	-51.77	-13.00	38.77	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152.269	24.16	-19.12	25.89	-64.33	-13.00	51.33	Vertical
2	1774.8469	27.72	-19.16	25.60	-61.10	-13.00	48.10	Vertical
3	2668.9586	26.35	-17.57	28.38	-58.10	-13.00	45.10	Vertical
4	4239.762	52.45	-48.51	31.98	-59.34	-13.00	46.34	Vertical
5	6090.6545	50.69	-45.52	34.48	-55.61	-13.00	42.61	Vertical
6	9059.153	48.65	-41.97	38.70	-49.88	-13.00	36.88	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-2.30	-0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-5.70	-0.007289	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-8.10	-0.010358	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.60	-0.005882	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-3.80	-0.004859	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-1.80	-0.002302	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-4.90	-0.006266	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-5.70	-0.007289	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-7.50	-0.009591	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-4.80	-0.006138	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-5.10	-0.006522	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-3.70	-0.004731	PASS

---End of Attachment---



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