

9.8. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

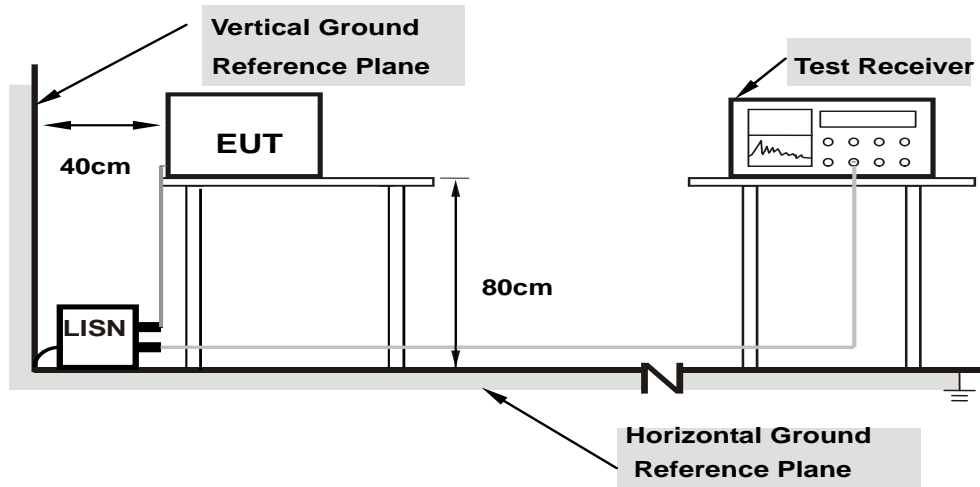
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dBuV) - Limit value (dBuV).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Telephone : +886-2-7737-3000
Facsimile (FAX) : +886-3-583-7948

Test Setup

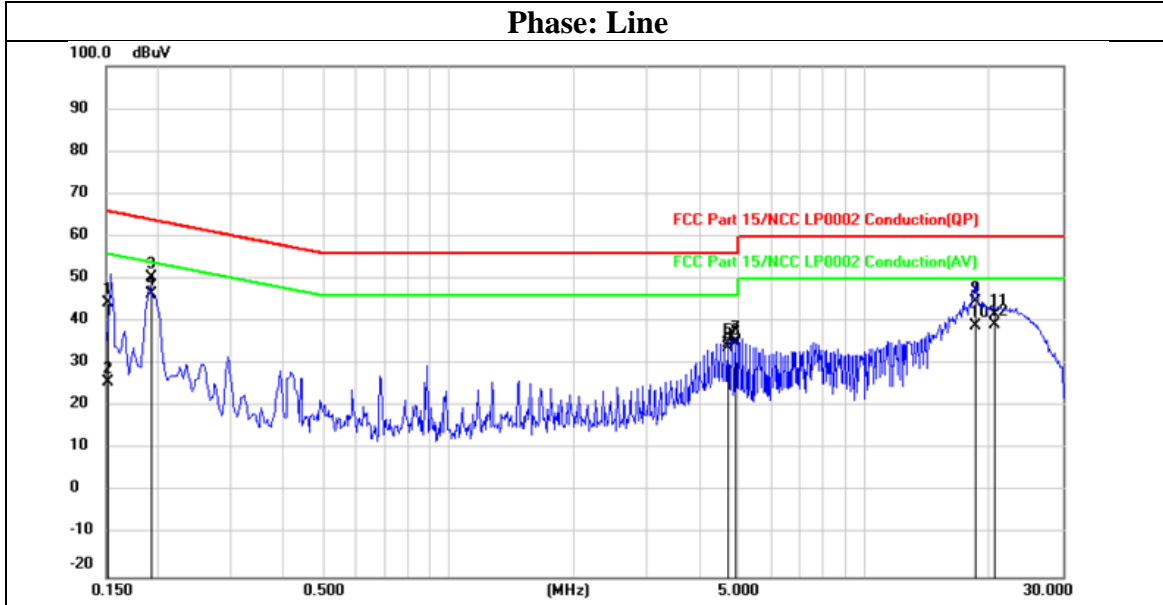


Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

Test Data

Mode	11a_TX5825	Channel	165
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1508	34.26	9.96	44.22	65.96	-21.74	QP
2	0.1508	15.89	9.96	25.85	55.96	-30.11	AVG
3	0.1926	40.27	9.96	50.23	63.92	-13.69	QP
4	0.1926	36.43	9.96	46.39	53.92	-7.53	AVG
5	4.7092	24.54	10.10	34.64	56.00	-21.36	QP
6	4.7092	23.67	10.10	33.77	46.00	-12.23	AVG
7	4.9054	25.13	10.11	35.24	56.00	-20.76	QP
8	4.9054	24.64	10.11	34.75	46.00	-11.25	AVG
9	18.4442	34.22	10.45	44.67	60.00	-15.33	QP
10	18.4442	28.57	10.45	39.02	50.00	-10.98	AVG
11	20.5041	31.32	10.48	41.80	60.00	-18.20	QP
12	20.5041	28.64	10.48	39.12	50.00	-10.88	AVG

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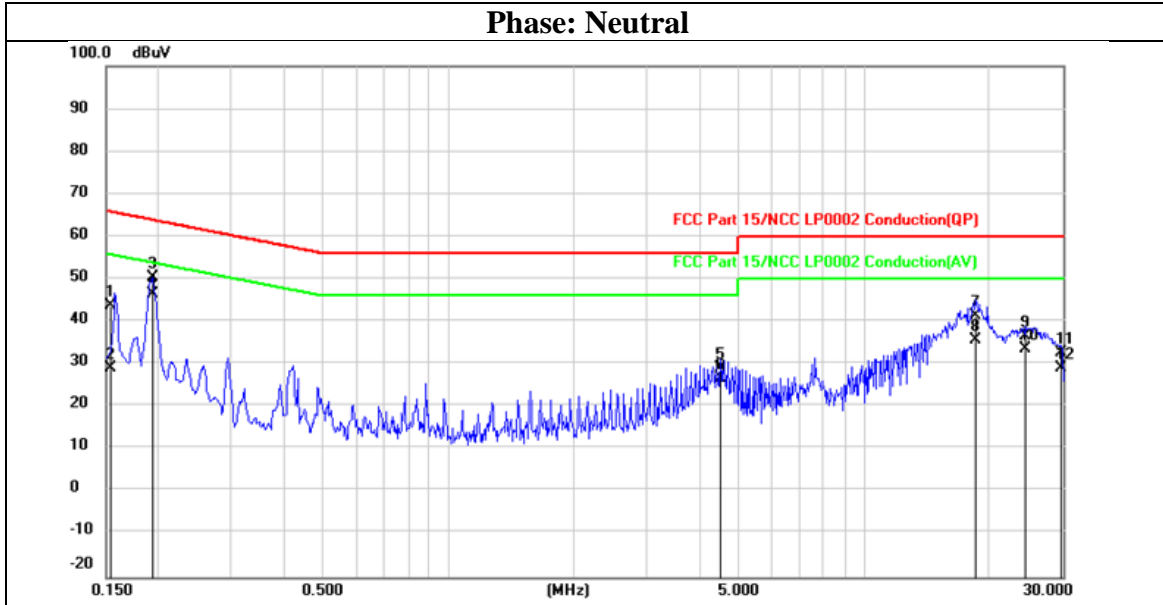
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

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Mode	11a_TX5825	Channel	165
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1537	33.90	9.95	43.85	65.80	-21.95	QP
2	0.1537	19.08	9.95	29.03	55.80	-26.77	AVG
3	0.1929	40.35	9.94	50.29	63.91	-13.62	QP
4	0.1929	36.49	9.94	46.43	53.91	-7.48	AVG
5	4.5128	19.07	10.09	29.16	56.00	-26.84	QP
6	4.5128	16.67	10.09	26.76	46.00	-19.24	AVG
7	18.5419	30.86	10.49	41.35	60.00	-18.65	QP
8	18.5419	25.30	10.49	35.79	50.00	-14.21	AVG
9	24.5255	26.08	10.61	36.69	60.00	-23.31	QP
10	24.5255	22.92	10.61	33.53	50.00	-16.47	AVG
11	29.8218	21.79	10.74	32.53	60.00	-27.47	QP
12	29.8218	18.19	10.74	28.93	50.00	-21.07	AVG

END OF REPORT

Underwriters Laboratories Taiwan Co., Ltd.

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