9.8. AC Power Line Conducted Emission

Requirements

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

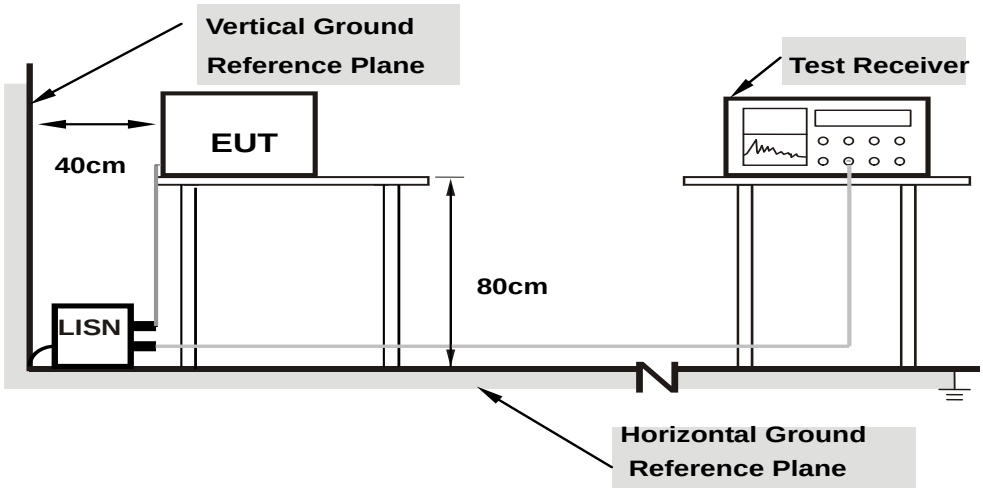
Note:
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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).

Test Setup



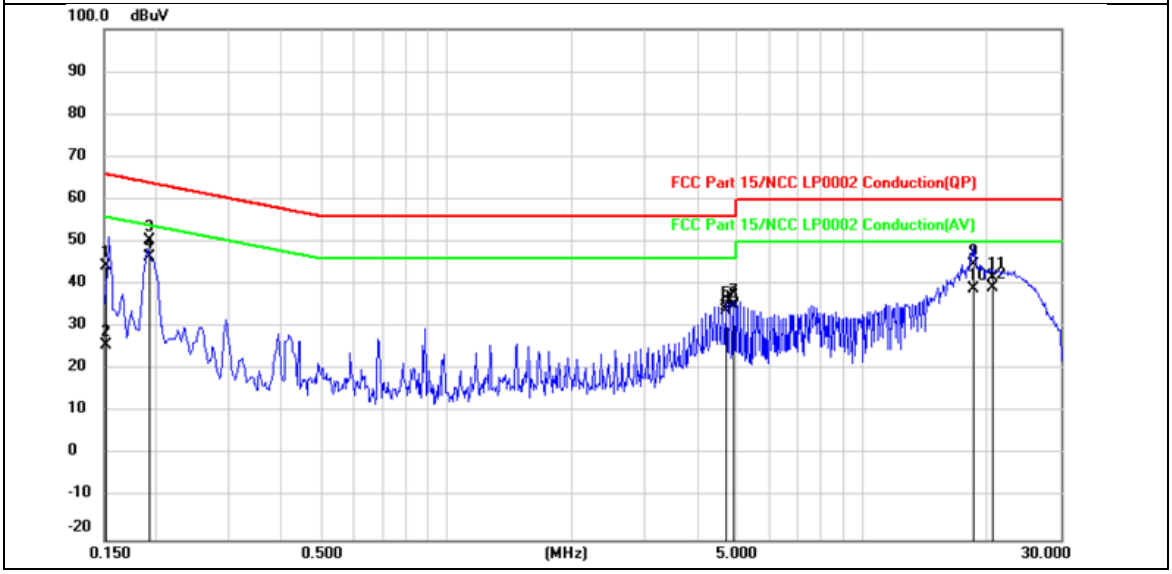
Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11a_TX5825	Channel	165

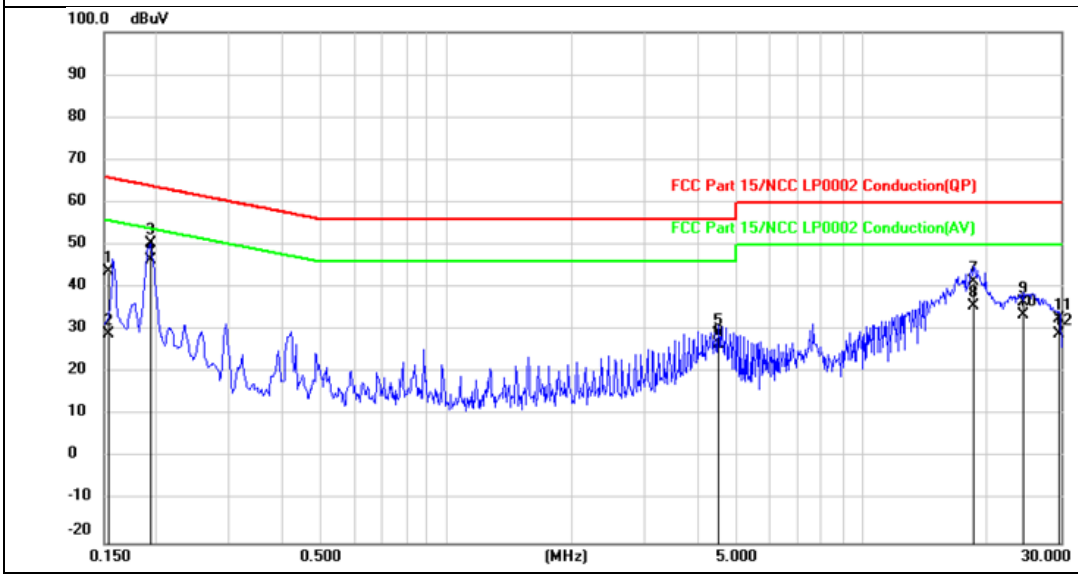
Phase: Line



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

Mode	11a_TX5825	Channel	165

Phase: Neutral



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