

## A.9 AC Power line Conducted Emission

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement Result and limit:

BT (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.84	Fig.85	<b>P</b>
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Average Limit)

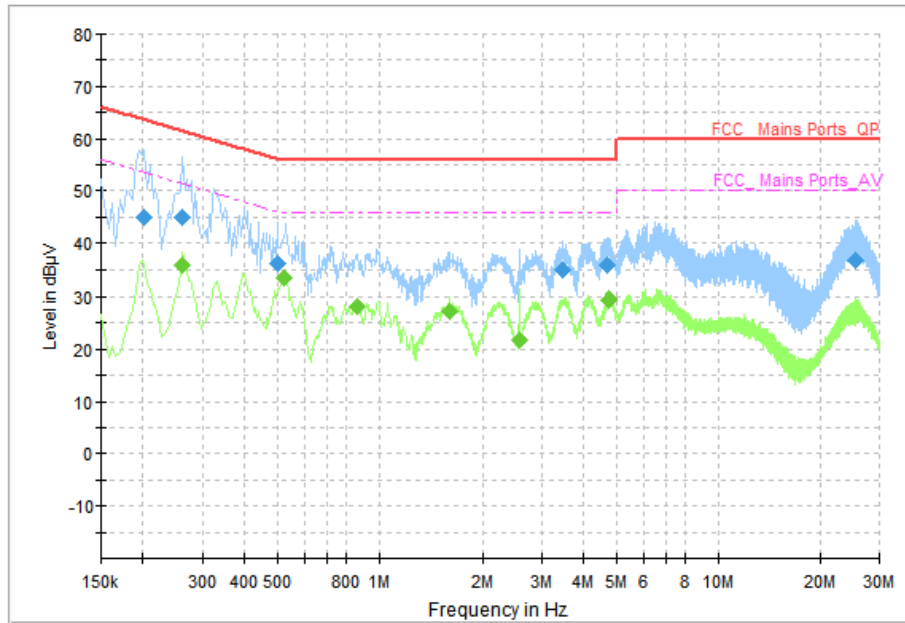
Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.84	Fig.85	<b>P</b>
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Note:** The measurement results include the L1 and N measurements.

See below for test graphs.

**Conclusion: Pass**



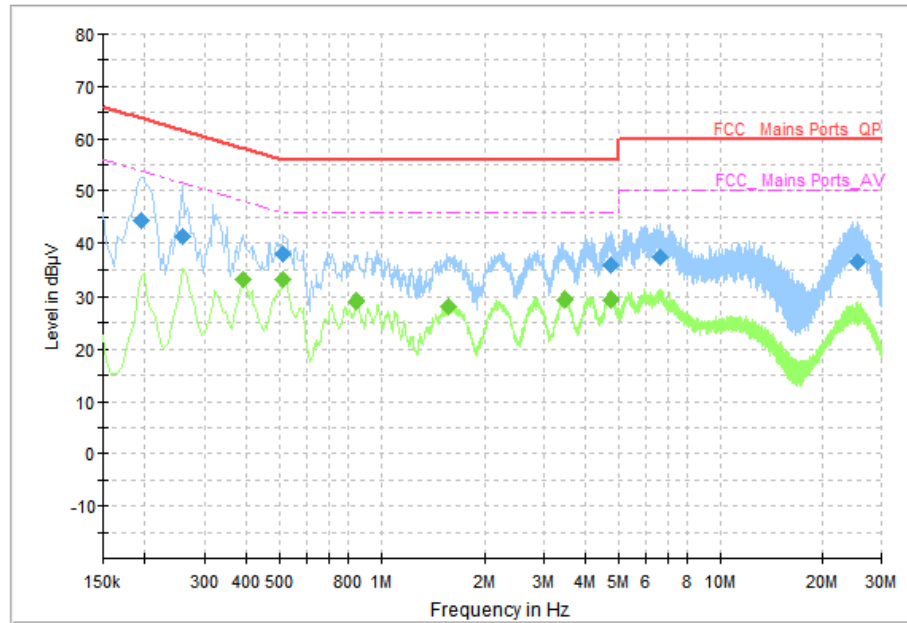
**Fig. 84 AC Powerline Conducted Emission (Traffic)**

**Measurement Results: Quasi Peak**

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.202000	44.95	63.53	18.58	N	ON	9.6
0.262000	44.89	61.37	16.48	N	ON	9.6
0.498000	36.17	56.03	19.86	N	ON	9.7
3.466000	34.81	56.00	21.19	N	ON	9.7
4.670000	35.87	56.00	20.13	N	ON	9.7
25.426000	36.58	60.00	23.42	N	ON	10.2

**Measurement Results : Average**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.262000	35.66	51.37	15.71	N	ON	9.6
0.522000	33.35	46.00	12.65	N	ON	9.7
0.858000	28.32	46.00	17.68	N	ON	9.7
1.602000	27.37	46.00	18.63	N	ON	9.7
2.570000	21.90	46.00	24.10	N	ON	9.7
4.714000	29.38	46.00	16.62	N	ON	9.7



**Fig. 85 AC Power line Conducted Emission (Idle)**

**Measurement Results: Quasi Peak**

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.194000	44.28	63.86	19.58	L1	ON	9.7
0.258000	41.36	61.50	20.13	L1	ON	9.7
0.514000	38.07	56.00	17.93	N	ON	9.7
4.714000	35.77	56.00	20.23	N	ON	9.7
6.642000	37.29	60.00	22.71	N	ON	9.8
25.586000	36.47	60.00	23.53	N	ON	10.2

**Measurement Results : Average**

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.390000	33.02	48.06	15.04	N	ON	9.6
0.514000	33.13	46.00	12.87	N	ON	9.7
0.846000	29.20	46.00	16.80	N	ON	9.7
1.570000	28.11	46.00	17.89	N	ON	9.7
3.454000	29.25	46.00	16.75	N	ON	9.7
4.754000	29.48	46.00	16.52	N	ON	9.7

\*\*\*END OF REPORT\*\*\*