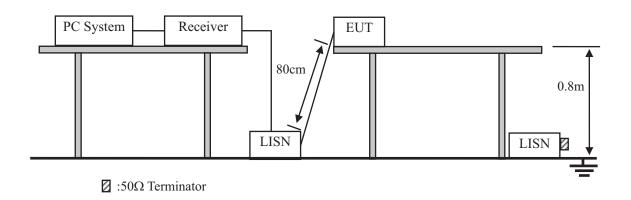
6. Power Line Conducted Emissions

6.1. Block Diagram of Test Setup



6.2. Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	$dB(\mu V)$	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. * Decreasing linearly with logarithm of frequency.

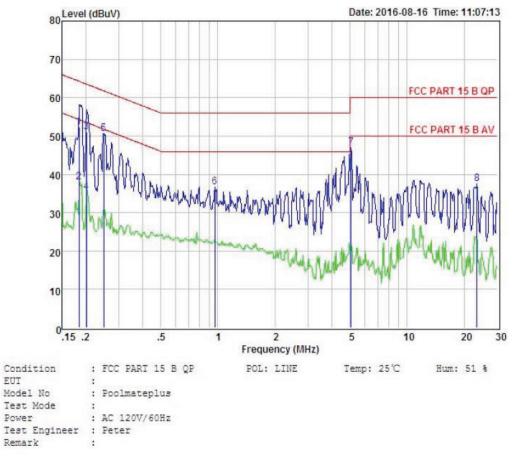
2. The lower limit shall apply at the transition frequencies.

6.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 and ANSI C64.10:2013 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

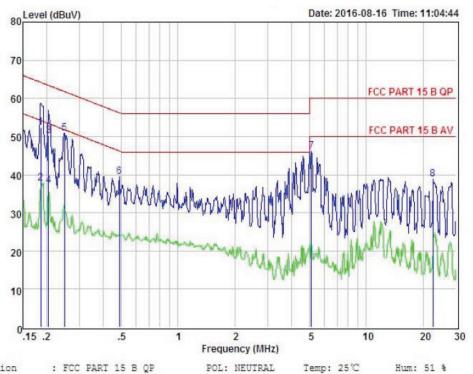
6.4. Test Result

PASS. (See below detailed test data)



Item	Freq	Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.184	42.61	0.03	-9.52	0.10	52.26	64.28	-12.02	QP
2	0.184	28.41	0.03	-9.52	0.10	38.06	54.28	-16.22	Average
3	0.202	41.30	0.03	-9.52	0.10	50.95	63.54	-12.59	QP
4	0.202	25.80	0.03	-9.52	0.10	35.45	53.54	-18.09	Average
5	0.249	40.94	0.03	-9.52	0.10	50.59	61.78	-11.19	Peak
6	0.963	26.86	0.04	-9.63	0.10	36.63	56.00	-19.37	Peak
7	5.058	36.92	0.10	-9.93	0.12	47.07	60.00	-12.93	Peak
8	23.387	26.94	0.43	-9.82	0.44	37.63	60.00	-22.37	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



Condition : FCC PART 15 B QP

EUT

Model No : Poolmateplus

Test Mode

: AC 120V/60Hz Power

Test Engineer : Peter

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Item	Freq	Read Level	LISN Factor	Preamp Factor		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.186	42.61	0.03	-9.52	0.10	52.26	64.20	-11.94	QP
2	0.186	28.20	0.03	-9.52	0.10	37.85	54.20	-16.35	Average
3	0.205	40.61	0.03	-9.52	0.10	50.26	63.40	-13.14	QP
4	0.205	27.50	0.03	-9.52	0.10	37.15	53.40	-16.25	Average
5	0.249	41.23	0.03	-9.52	0.10	50.88	61.78	-10.90	Peak
6	0.489	29.81	0.03	-9.58	0.10	39.52	56.19	-16.67	Peak
7	5.112	36.01	0.10	-9.93	0.12	46.16	60.00	-13.84	Peak
8	22.655	28.18	0.41	-9.81	0.42	38.82	60.00	-21.18	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

7. Antenna Requirements

7.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203 & RSS-210, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.209, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Report No.: T1861540 06

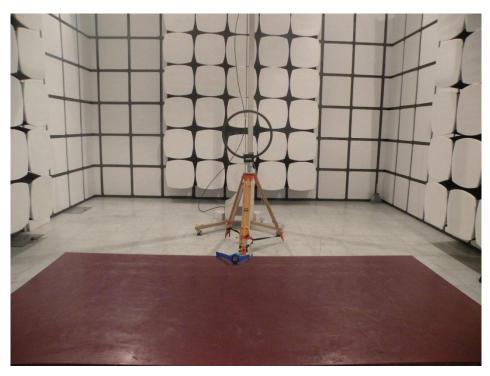
7.2. Result

The antennas used for this product are integral Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

8. Test setup photo

Photographs-Radiated Emission Test Setup in Chamber





30M-1G



Photographs-Conducted Emission Test Setup



9. Photos of EUT



