



TESTING LABORATORY
CERTIFICATE#4323.01



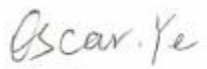
FCC PART 15C TEST REPORT

For

Shaoxing Prolux Lighting Co.,Ltd

Ludong Industrial Zone,BaiGuan Street,ShangYu District,Shaoxing City,Zhejiang Province,China
312000

FCC ID: 2AP2V-DESKLAMP05

Report Type: Original Report	Product Type: LED Desk Lamp With Wireless Charging
Test Engineer: Matt Yao	
Report Number: RSHB190416001-00B	
Report Date: 2019-06-19	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Shaoxing Prolux Lighting Co.,Ltd
Tested Model	PL-0175
Series Model:	PL-0174,PL-0168,PL-0169,PL-0074QI,PL-0073A-QI, 22018-000,22017-000
Models different:	All Series model is appearance different , among PL-0074QI,PL-0073A-QI is Appearance and LED power different
Product Type	LED Desk Lamp With Wireless Charging
Dimension	1110 mm(L)×700 mm(W)×1300 mm(H)
Power Supply	DC 13V from adapter

Adapter Information:

Model: RSS1006-156130-W2-B

Input: AC100-240 V 50/60Hz 1.4A

Output:13V, 1.2A

**All measurement and test data in this report was gathered from production sample serial number: 20190416001. (Assigned by BACL, Kunshan). The EUT was received on 2019-04-16.*

Objective

This report is prepared on behalf of Shaoxing Prolux Lighting Co.,Ltd in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207 and 15.209 rules.

Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
Radiated emission	9kHz~30MHz	3.19dB
	30MHz~1GHz	6.11dB
Temperature		1.0°C
Humidity		6%

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user)

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

No Exercise Software was used.

Support Equipment List and Details

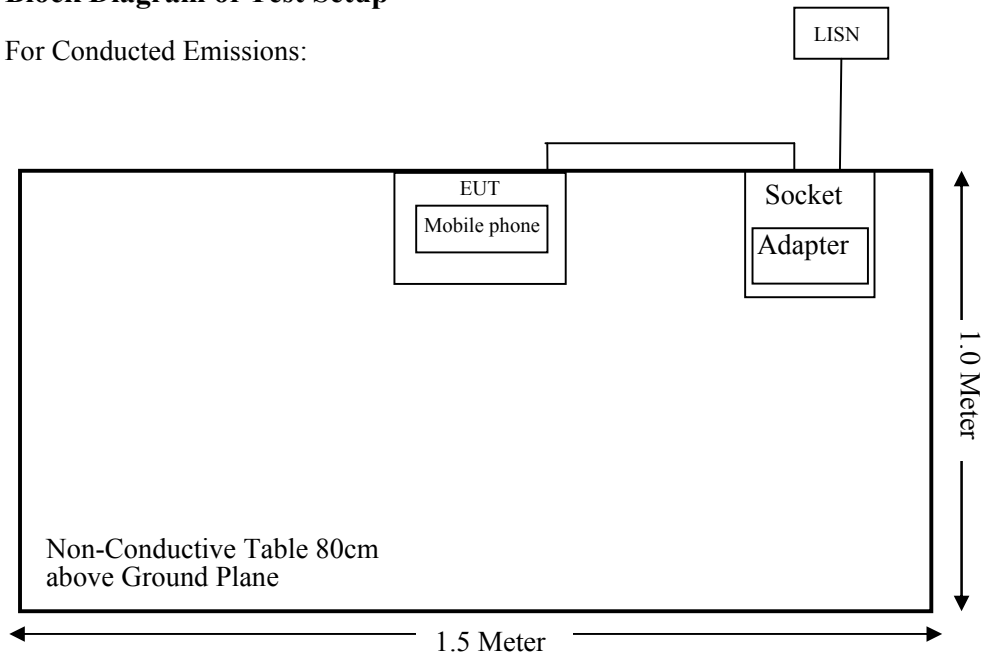
Manufacturer	Description	Model	Serial Number
HUAWEI	Mobile Phone	Mate 20 Pro(UD)	A00000A043043CD0E
Unknown	Load	WR3	180410010

External I/O Cable

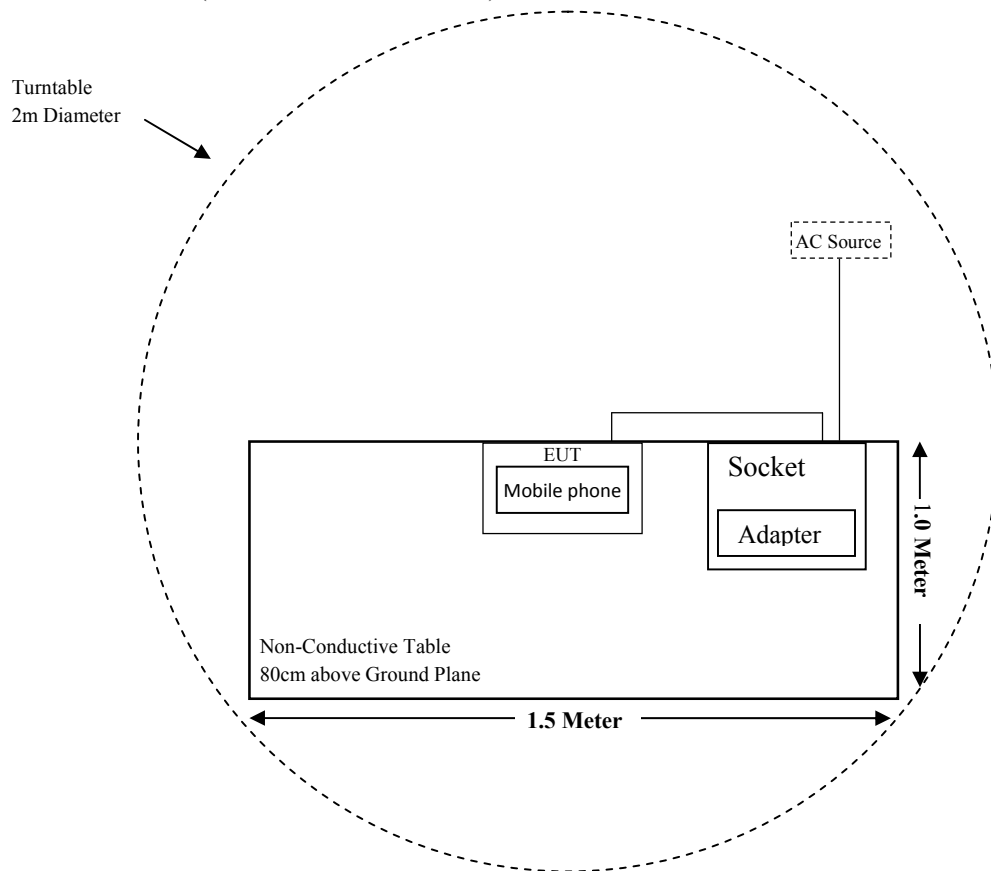
Cable Description	Length (m)	From Port	To
Power Cable	1.65	EUT	Adapter
Power Cable	1.20	Socket	AC Source

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions(Below & Above 30MHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 & §1.1310 & §2.1091	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209	Spurious Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2018-11-12	2019-11-11
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrument	Pre-amplifier	310N	171205	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048/027	2018-11-30	2019-11-29
ETS-LINDGREN	PASSIVE LOOP	6512	108100	2019-01-09	2022-01-08
Sonoma Instrument	Pre-amplifier	310N	185700	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2018-11-12	2019-11-11
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2018-11-12	2019-11-11
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2019-01-10	2020-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14
RF Exposure					
Narda	Electromagnetic Field Meter	ELT-400	N-0215	2019-02-22	2020-02-21
Narda	B field probe	ELT Probe 100cm ²	M-0658	2019-02-22	2020-02-21
ETS-Lindgren	Isotropic probe /	HI-6005	00069461	2019-02-28	2020-02-27

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307& §1.1310 & §2.1091 – RF EXPOSURE

Applicable Standard

FCC §1.1307 & 1.1310 & §2.1091

According to the item 5(b) of KDB 680106 D01 RF Exposure Wireless Charging Apps v03: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF evaluation.

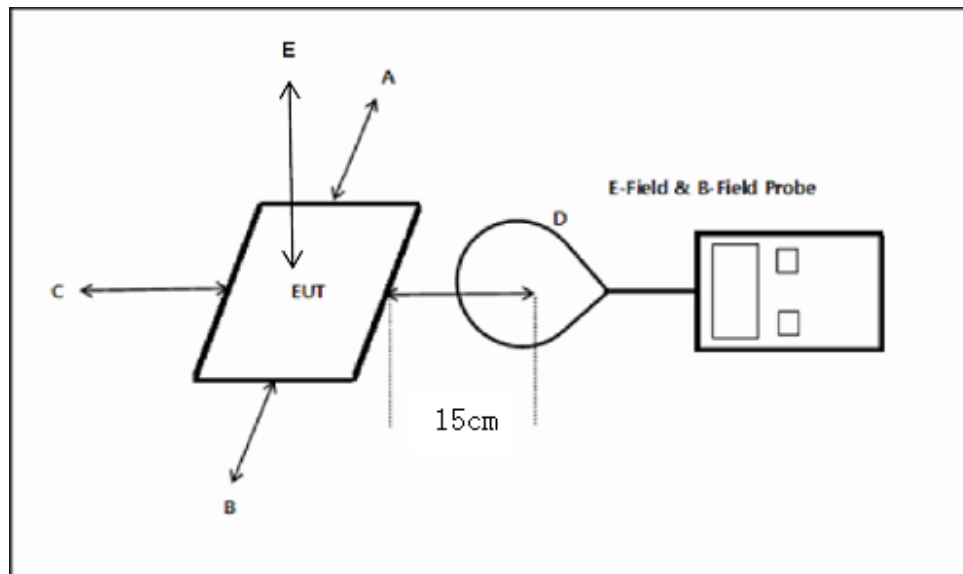
- a) Power transfer frequency is less than 1 MHz.
- b) Output power from each primary coil is less than or equal to 15 watts.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- d) Client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	/	/	f/300	6
1,500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

EUT Setup



Result

a) Power transfer frequency is less than 1 MHz.

Yes, the device operates in the frequency 110 kHz-205kHz.

b) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils..

Yes, the transfer system including a charging system with only single primary coils is to detect and allow only between individual of coils.

d) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, this is a mobile device.

f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

The EUT H-field Strength levels at 15 cm surrounding the device and 20 cm above the top surface are less than 50% the MPE limit.

Test Data**Environmental Conditions**

Temperature:	24.2°C
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Matt Yao on 2019-05-10.

Test mode: Transmitting-Worst case (PL-0175)

H-Field Strength

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit Test (A/m)
110-205	0.123	0.104	0.123	0.127	0.211	0.815	1.63

E-Field Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit Test (V/m)
110-205	2.723	2.546	2.397	2.568	2.431	307	614

Note:

1: According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03, Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614V/m and 1.63 A/m.

2: The distance for position A, B, C, D are 15cm, the distance for position E is 20cm.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Antenna Connector Construction

The EUT has a coil antennas arrangement, which the antennas gain are 0 dBi; fulfill the requirement of this section. Please refer to the EUT photos.

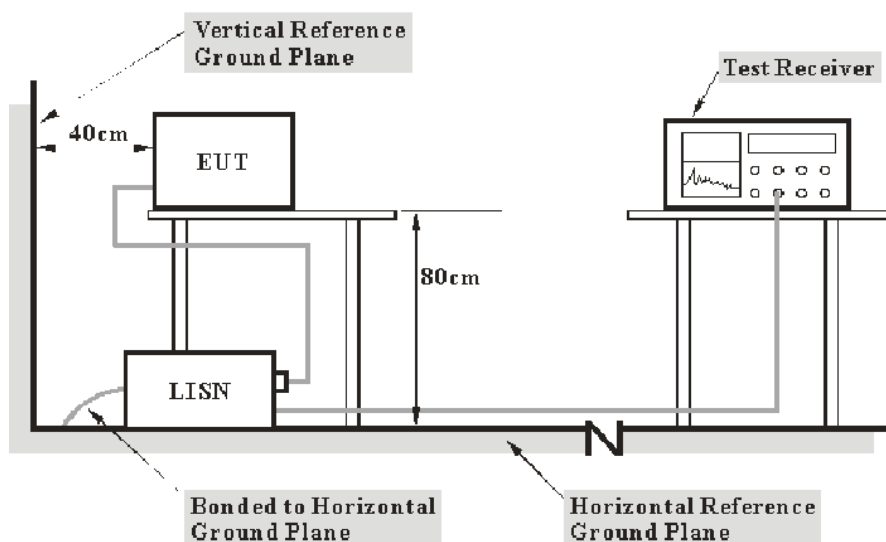
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Corrected Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Corrected Amplitude (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Matt Yao on 2019-04-23.

EUT operation mode: Transmitting

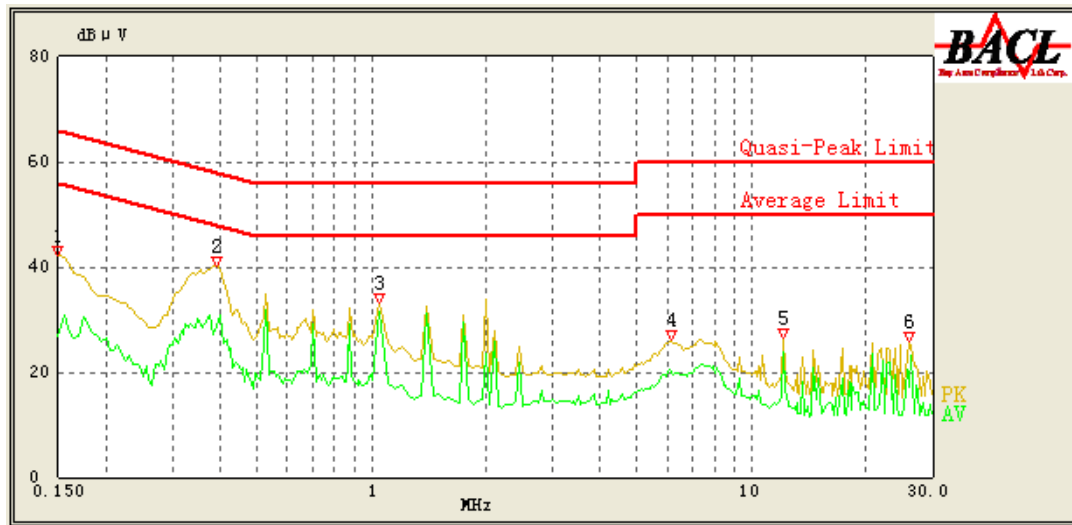
PL-0175:

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	42.40	QP	9.000	L1	16.06	66.00	23.60	Compliant
0.150	30.69	AV	9.000	L1	16.06	56.00	25.31	Compliant
0.375	37.83	QP	9.000	L1	16.05	58.39	20.56	Compliant
0.375	27.42	AV	9.000	L1	16.05	48.39	20.97	Compliant
1.050	34.17	QP	9.000	L1	15.88	56.00	21.83	Compliant
1.050	30.91	AV	9.000	L1	15.88	46.00	15.09	Compliant
1.750	31.71	QP	9.000	L1	15.86	56.00	24.29	Compliant
1.750	28.35	AV	9.000	L1	15.86	46.00	17.65	Compliant
7.800	25.90	QP	9.000	L1	16.00	60.00	34.10	Compliant
7.800	21.21	AV	9.000	L1	16.00	50.00	28.79	Compliant
21.950	27.59	QP	9.000	L1	16.45	60.00	32.41	Compliant
21.950	18.52	AV	9.000	L1	16.45	50.00	31.48	Compliant

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	42.07	QP	9.000	N	16.06	66.00	23.93	Compliant
0.150	27.00	AV	9.000	N	16.06	56.00	29.00	Compliant
0.390	40.29	QP	9.000	N	16.09	58.06	17.77	Compliant
0.390	28.50	AV	9.000	N	16.09	48.06	19.56	Compliant
1.050	33.25	QP	9.000	N	15.94	56.00	22.75	Compliant
1.050	31.34	AV	9.000	N	15.94	46.00	14.66	Compliant
6.150	26.13	QP	9.000	N	15.90	60.00	33.87	Compliant
6.150	20.12	AV	9.000	N	15.90	50.00	29.88	Compliant
12.100	26.48	QP	9.000	N	16.00	60.00	33.52	Compliant
12.100	23.80	AV	9.000	N	16.00	50.00	26.20	Compliant
25.950	25.83	QP	9.000	N	16.26	60.00	34.17	Compliant
25.950	17.12	AV	9.000	N	16.26	50.00	32.88	Compliant

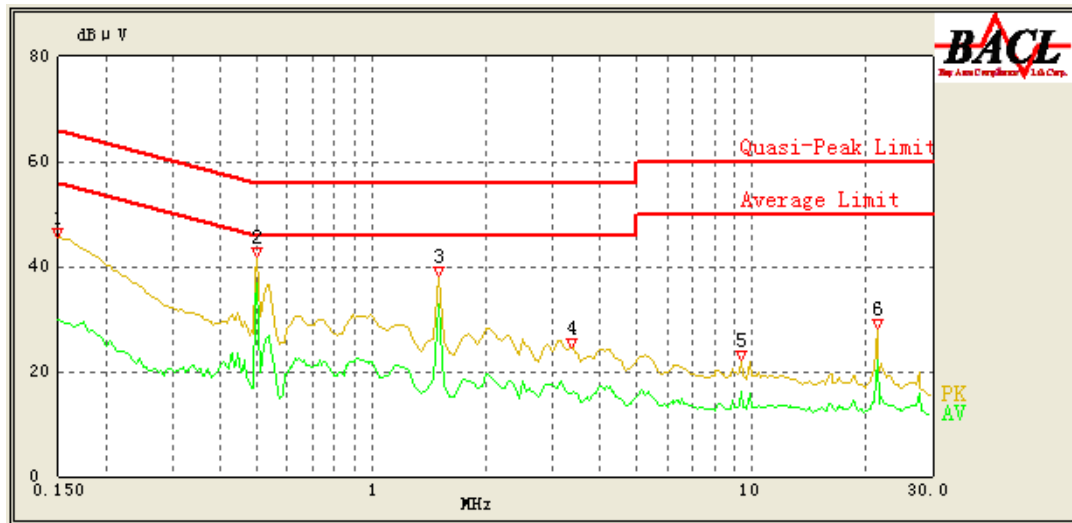
Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

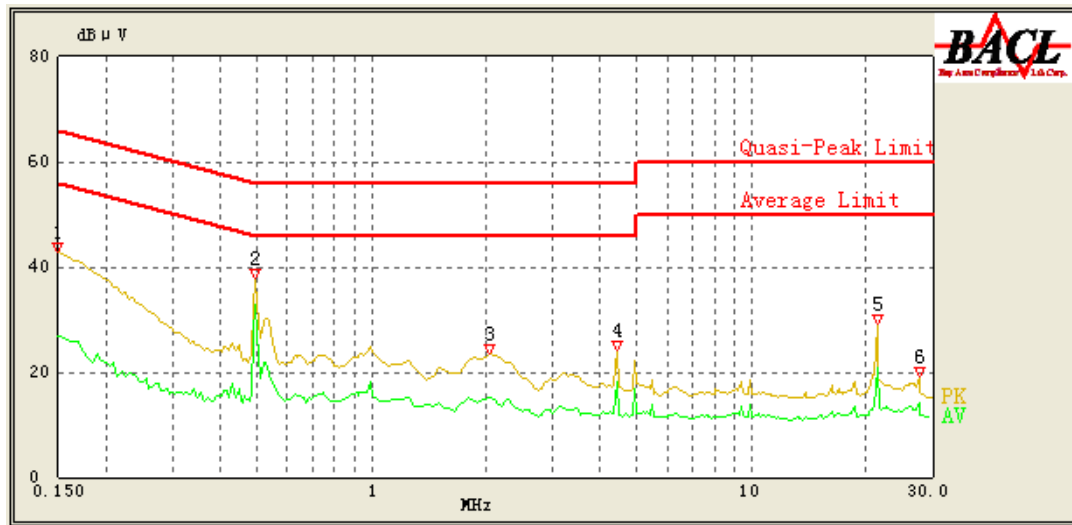
PL-0174

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	45.55	QP	9.000	L1	16.06	66.00	20.45	Compliant
0.150	29.89	AV	9.000	L1	16.06	56.00	26.11	Compliant
0.500	41.96	QP	9.000	L1	16.11	56.00	14.04	Compliant
0.500	36.77	AV	9.000	L1	16.11	46.00	9.23	Compliant
1.500	38.08	QP	9.000	L1	15.92	56.00	17.92	Compliant
1.500	32.67	AV	9.000	L1	15.92	46.00	13.33	Compliant
3.350	24.52	QP	9.000	L1	15.89	56.00	31.48	Compliant
3.350	15.95	AV	9.000	L1	15.89	46.00	30.05	Compliant
9.450	22.21	QP	9.000	L1	15.98	60.00	37.79	Compliant
9.450	16.08	AV	9.000	L1	15.98	50.00	33.92	Compliant
21.500	28.32	QP	9.000	L1	16.18	60.00	31.68	Compliant
21.500	22.18	AV	9.000	L1	16.18	50.00	27.82	Compliant

AC 120V/60 Hz, Neutral



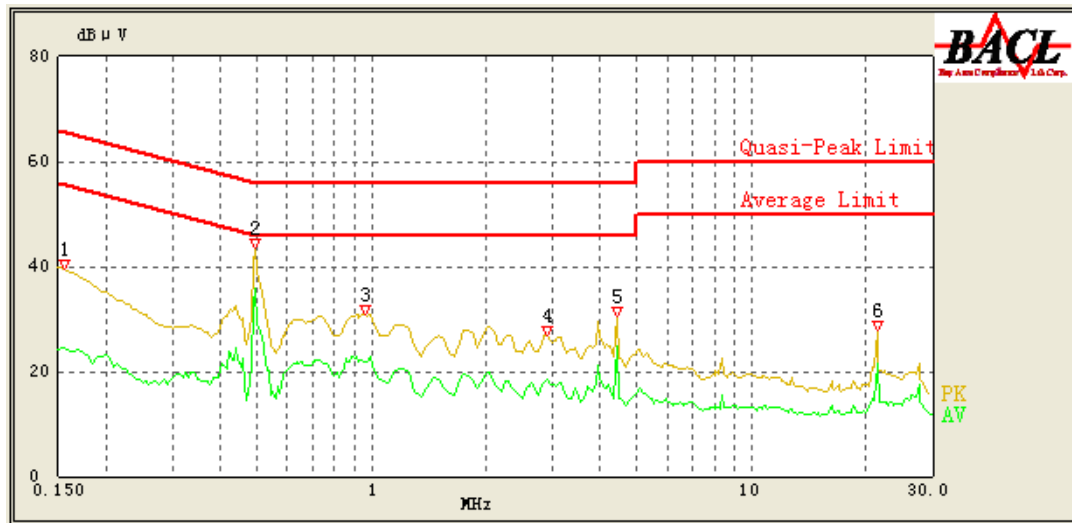
Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	42.77	QP	9.000	N	16.06	66.00	23.23	Compliant
0.150	26.92	AV	9.000	N	16.06	56.00	29.08	Compliant
0.495	37.93	QP	9.000	N	16.11	56.14	18.21	Compliant
0.495	32.86	AV	9.000	N	16.11	46.14	13.28	Compliant
2.050	23.36	QP	9.000	N	15.91	56.00	32.64	Compliant
2.050	15.28	AV	9.000	N	15.91	46.00	30.72	Compliant
4.450	24.18	QP	9.000	N	15.88	56.00	31.82	Compliant
4.450	18.27	AV	9.000	N	15.88	46.00	27.73	Compliant
21.500	29.08	QP	9.000	N	16.18	60.00	30.92	Compliant
21.500	20.68	AV	9.000	N	16.18	50.00	29.32	Compliant
27.650	19.10	QP	9.000	N	16.29	60.00	40.90	Compliant
27.650	14.21	AV	9.000	N	16.29	50.00	35.79	Compliant

Note:

- 1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
 2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

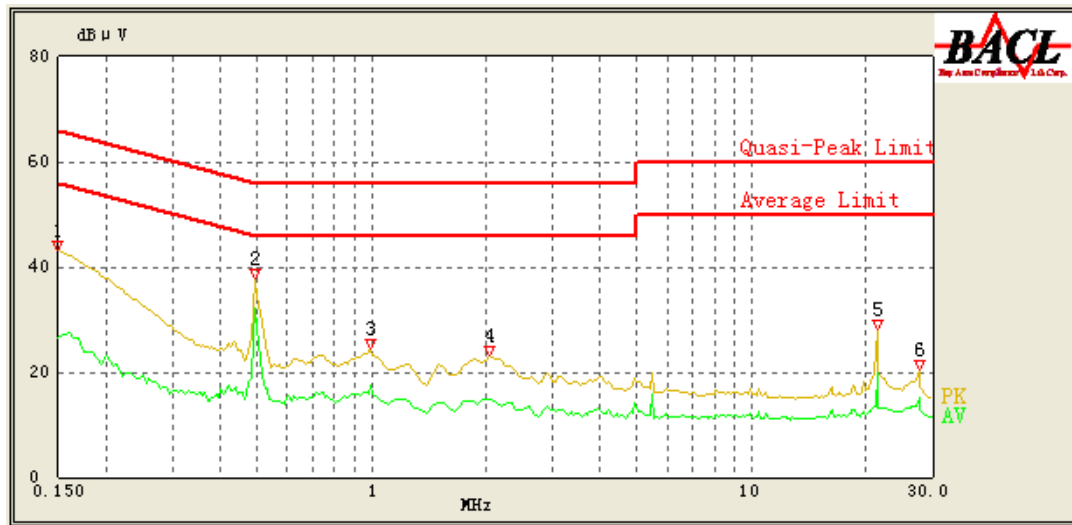
PL-0168

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.155	39.49	QP	9.000	L1	16.06	65.86	26.37	Compliant
0.155	24.48	AV	9.000	L1	16.06	55.86	31.38	Compliant
0.495	43.59	QP	9.000	L1	16.11	56.14	12.55	Compliant
0.495	35.81	AV	9.000	L1	16.11	46.14	10.33	Compliant
0.960	30.82	QP	9.000	L1	15.95	56.00	25.18	Compliant
0.960	21.90	AV	9.000	L1	15.95	46.00	24.10	Compliant
2.900	26.88	QP	9.000	L1	15.90	56.00	29.12	Compliant
2.900	18.62	AV	9.000	L1	15.90	46.00	27.38	Compliant
4.450	30.62	QP	9.000	L1	15.88	56.00	25.38	Compliant
4.450	24.75	AV	9.000	L1	15.88	46.00	21.25	Compliant
21.500	27.80	QP	9.000	L1	16.18	60.00	32.20	Compliant
21.500	21.63	AV	9.000	L1	16.18	50.00	28.37	Compliant

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	43.01	QP	9.000	N	16.06	66.00	22.99	Compliant
0.150	26.42	AV	9.000	N	16.06	56.00	29.58	Compliant
0.495	37.71	QP	9.000	N	16.11	56.14	18.43	Compliant
0.495	32.21	AV	9.000	N	16.11	46.14	13.93	Compliant
0.990	24.48	QP	9.000	N	15.94	56.00	31.52	Compliant
0.990	17.50	AV	9.000	N	15.94	46.00	28.50	Compliant
2.050	23.06	QP	9.000	N	15.91	56.00	32.94	Compliant
2.050	14.84	AV	9.000	N	15.91	46.00	31.16	Compliant
21.500	28.08	QP	9.000	N	16.18	60.00	31.92	Compliant
21.500	19.67	AV	9.000	N	16.18	50.00	30.33	Compliant
27.650	20.54	QP	9.000	N	16.29	60.00	39.46	Compliant
27.650	15.32	AV	9.000	N	16.29	50.00	34.68	Compliant

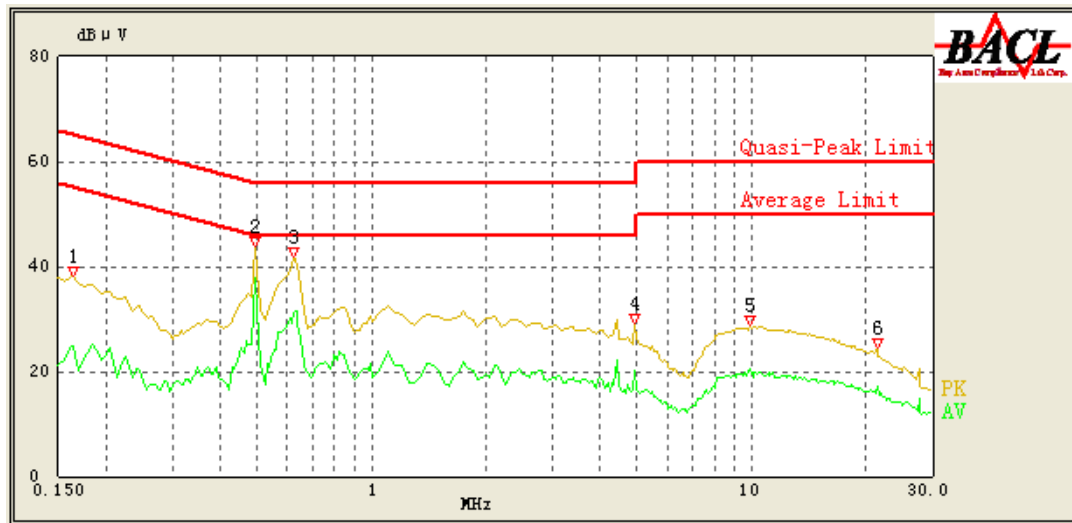
Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

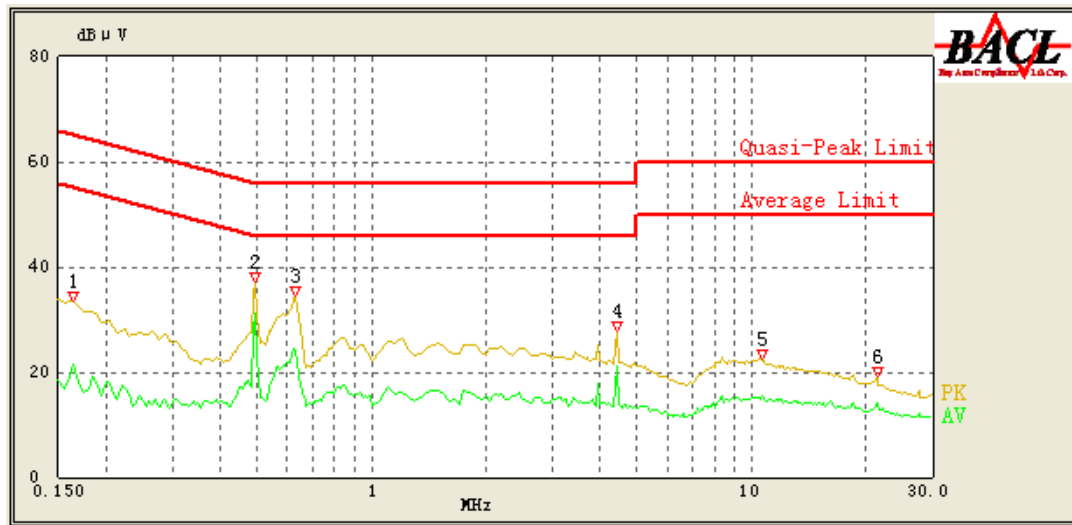
PL-0169

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.165	38.31	QP	9.000	L1	16.06	65.57	27.26	Compliant
0.165	25.00	AV	9.000	L1	16.06	55.57	30.57	Compliant
0.495	43.73	QP	9.000	L1	16.11	56.14	12.41	Compliant
0.495	37.72	AV	9.000	L1	16.11	46.14	8.42	Compliant
0.625	41.69	QP	9.000	L1	16.03	56.00	14.31	Compliant
0.625	31.32	AV	9.000	L1	16.03	46.00	14.68	Compliant
4.950	29.16	QP	9.000	L1	15.87	56.00	26.84	Compliant
4.950	20.14	AV	9.000	L1	15.87	46.00	25.86	Compliant
9.900	28.80	QP	9.000	L1	15.99	60.00	31.20	Compliant
9.900	20.37	AV	9.000	L1	15.99	50.00	29.63	Compliant
21.500	24.48	QP	9.000	L1	16.18	60.00	35.52	Compliant
21.500	17.05	AV	9.000	L1	16.18	50.00	32.95	Compliant

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.165	33.61	QP	9.000	N	16.06	65.57	31.96	Compliant
0.165	21.55	AV	9.000	N	16.06	55.57	34.02	Compliant
0.495	37.17	QP	9.000	N	16.11	56.14	18.97	Compliant
0.495	31.21	AV	9.000	N	16.11	46.14	14.93	Compliant
0.630	34.44	QP	9.000	N	16.03	56.00	21.56	Compliant
0.630	24.32	AV	9.000	N	16.03	46.00	21.68	Compliant
4.450	27.76	QP	9.000	N	15.88	56.00	28.24	Compliant
4.450	21.07	AV	9.000	N	15.88	46.00	24.93	Compliant
10.700	22.65	QP	9.000	N	15.99	60.00	37.35	Compliant
10.700	15.51	AV	9.000	N	15.99	50.00	34.49	Compliant
21.500	19.02	QP	9.000	N	16.18	60.00	40.98	Compliant
21.500	14.22	AV	9.000	N	16.18	50.00	35.78	Compliant

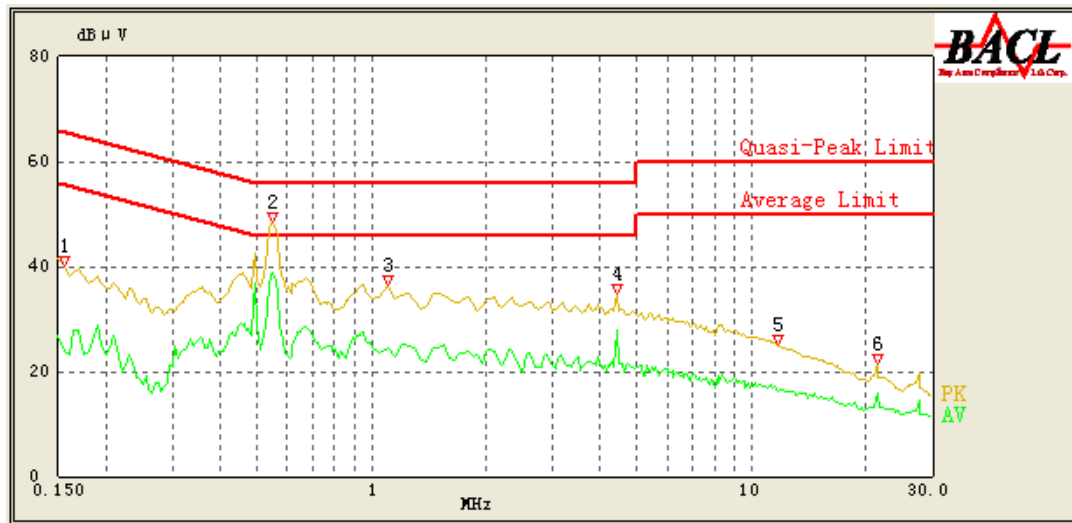
Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

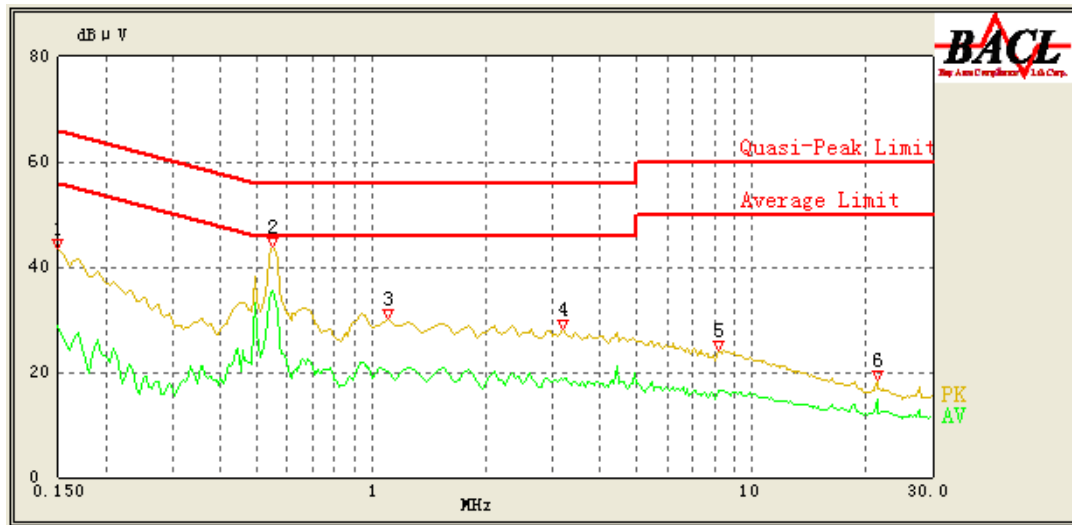
PL-0074QI

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.155	40.11	QP	9.000	L1	16.06	65.86	25.75	Compliant
0.155	23.71	AV	9.000	L1	16.06	55.86	32.15	Compliant
0.550	48.66	QP	9.000	L1	16.08	56.00	7.34	Compliant
0.550	38.95	AV	9.000	L1	16.08	46.00	7.05	Compliant
1.100	36.45	QP	9.000	L1	15.94	56.00	19.55	Compliant
1.100	24.63	AV	9.000	L1	15.94	46.00	21.37	Compliant
4.450	34.78	QP	9.000	L1	15.88	56.00	21.22	Compliant
4.450	27.75	AV	9.000	L1	15.88	46.00	18.25	Compliant
11.800	25.16	QP	9.000	L1	16.00	60.00	34.84	Compliant
11.850	16.54	AV	9.000	L1	16.00	50.00	33.46	Compliant
21.500	21.36	QP	9.000	L1	16.18	60.00	38.64	Compliant
21.500	15.84	AV	9.000	L1	16.18	50.00	34.16	Compliant

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	43.59	QP	9.000	N	16.06	66.00	22.41	Compliant
0.150	28.79	AV	9.000	N	16.06	56.00	27.21	Compliant
0.550	43.92	QP	9.000	N	16.08	56.00	12.08	Compliant
0.550	35.40	AV	9.000	N	16.08	46.00	10.60	Compliant
1.100	30.23	QP	9.000	N	15.94	56.00	25.77	Compliant
1.100	20.32	AV	9.000	N	15.94	46.00	25.68	Compliant
3.200	28.14	QP	9.000	N	15.89	56.00	27.86	Compliant
3.200	18.43	AV	9.000	N	15.89	46.00	27.57	Compliant
8.200	24.27	QP	9.000	N	15.95	60.00	35.73	Compliant
8.200	16.49	AV	9.000	N	15.95	50.00	33.51	Compliant
21.500	18.50	QP	9.000	N	16.18	60.00	41.50	Compliant
21.500	14.76	AV	9.000	N	16.18	50.00	35.24	Compliant

Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

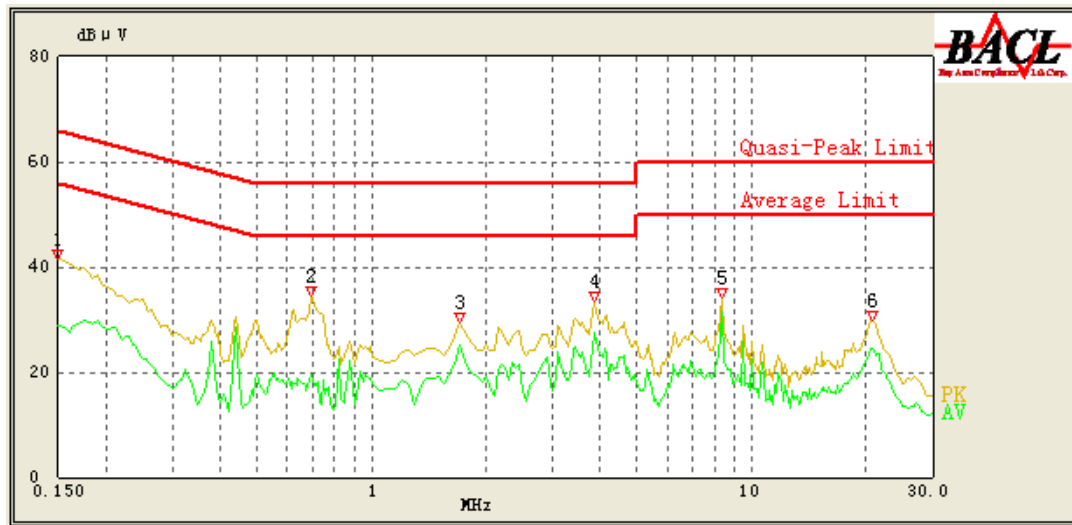
PL-0073A-QI

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.190	38.53	QP	9.000	L1	16.05	64.86	26.33	Compliant
0.190	29.12	AV	9.000	L1	16.05	54.86	25.74	Compliant
0.595	39.45	QP	9.000	L1	16.05	56.00	16.55	Compliant
0.600	24.75	AV	9.000	L1	16.05	46.00	21.25	Compliant
1.050	35.67	QP	9.000	L1	15.94	56.00	20.33	Compliant
1.050	23.44	AV	9.000	L1	15.94	46.00	22.56	Compliant
3.850	31.93	QP	9.000	L1	15.89	56.00	24.07	Compliant
3.850	26.60	AV	9.000	L1	15.89	46.00	19.40	Compliant
8.350	35.69	QP	9.000	L1	15.95	60.00	24.31	Compliant
8.350	33.63	AV	9.000	L1	15.95	50.00	16.37	Compliant
19.650	29.29	QP	9.000	L1	16.15	60.00	30.71	Compliant
19.650	24.17	AV	9.000	L1	16.15	50.00	25.83	Compliant

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	41.62	QP	9.000	N	16.06	66.00	24.38	Compliant
0.150	28.97	AV	9.000	N	16.06	56.00	27.03	Compliant
0.690	34.53	QP	9.000	N	15.96	56.00	21.47	Compliant
0.695	19.44	AV	9.000	N	15.95	46.00	26.56	Compliant
1.700	29.41	QP	9.000	N	15.86	56.00	26.59	Compliant
1.700	25.12	AV	9.000	N	15.86	46.00	20.88	Compliant
3.850	33.54	QP	9.000	N	15.85	56.00	22.46	Compliant
3.850	27.62	AV	9.000	N	15.85	46.00	18.38	Compliant
8.350	34.11	QP	9.000	N	16.02	60.00	25.89	Compliant
8.350	31.54	AV	9.000	N	16.02	50.00	18.46	Compliant
20.800	29.79	QP	9.000	N	16.44	60.00	30.21	Compliant
20.750	24.47	AV	9.000	N	16.44	50.00	25.53	Compliant

Note:

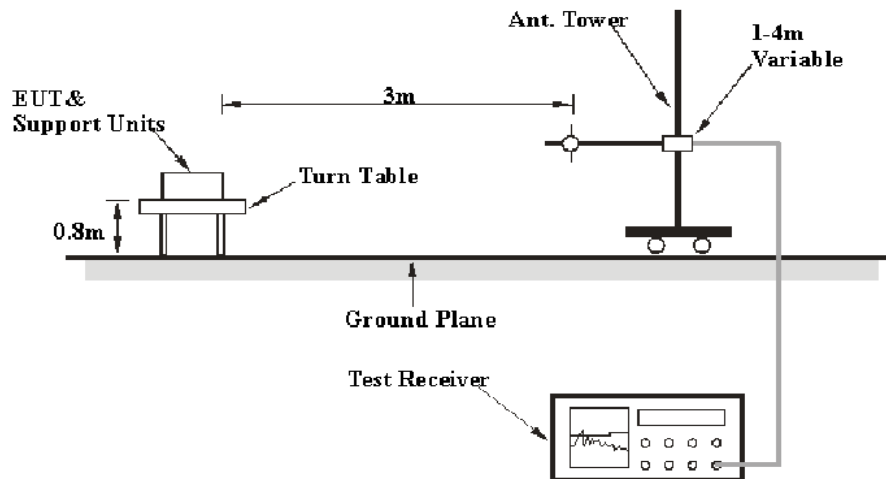
- 1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

FCC §15.209 & §15.205 - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.209; §15.205;

EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30MHz	9kHz	30kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (dB}\mu\text{V /m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V /m)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205 and 15.209.

Test Data

Environmental Conditions

Temperature:	24.2℃
Relative Humidity:	51 %
ATM Pressure:	101.2 kPa

The testing was performed by Matt Yao on 2019-05-26.

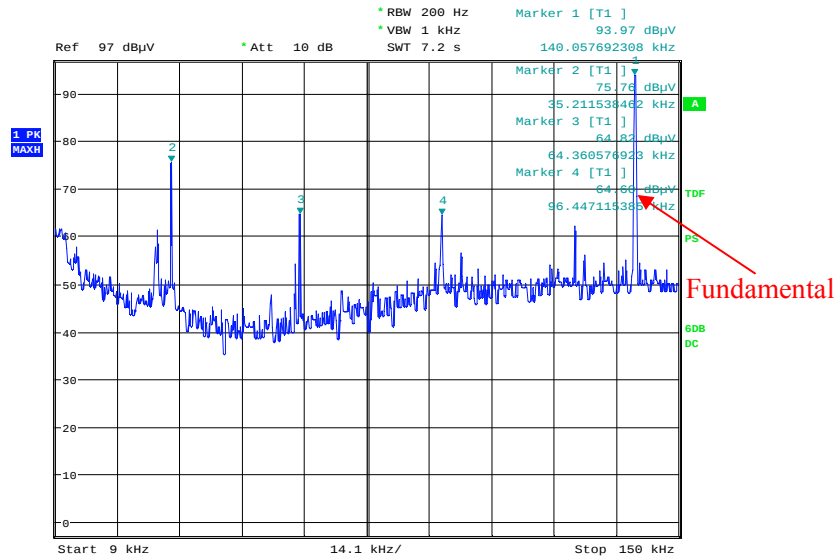
EUT operation mode: Transmitting

9kHz-30MHz:

(Pre-scan in the X, Y and Z axes of orientation, the worst case in **Z-axis of orientation** was recorded)

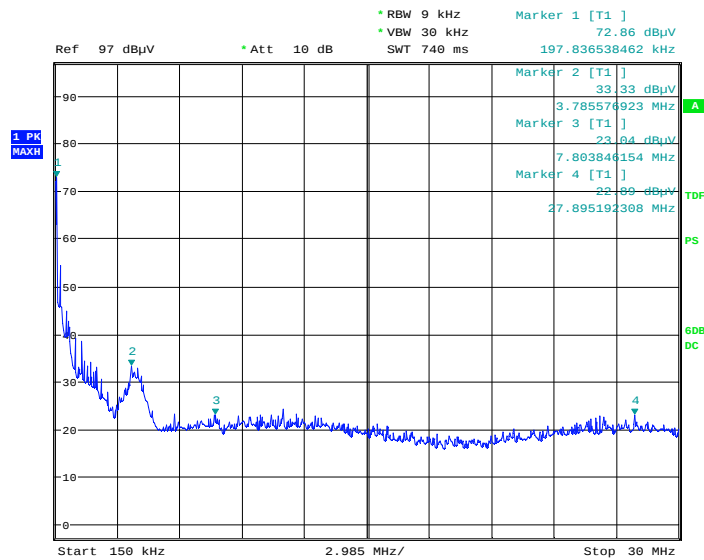
PL-0175

9kHz-150kHz (PK)



Date: 26.MAY.2019 09:11:36

150kHz-30MHz (PK)



Date: 26.MAY.2019 09:13:37

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @300m	Margin (dB)
35.21	75.76	PK	38.1	116.67	36.67	40.91
64.36	64.82	PK	31.3	111.43	31.43	46.61
96.45	64.60	PK	30.6	107.92	27.92	43.32
140.06	93.97	PK	29.4	104.68	24.68	10.71
197.84	72.86	PK	29.6	101.68	21.68	28.82

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @30m	Margin (dB)
3.79	33.33	PK	0.5	69.54	29.54	36.21
7.80	23.04	PK	-1.6	69.54	29.54	46.50
27.9	22.89	PK	-3.3	69.54	29.54	46.65

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

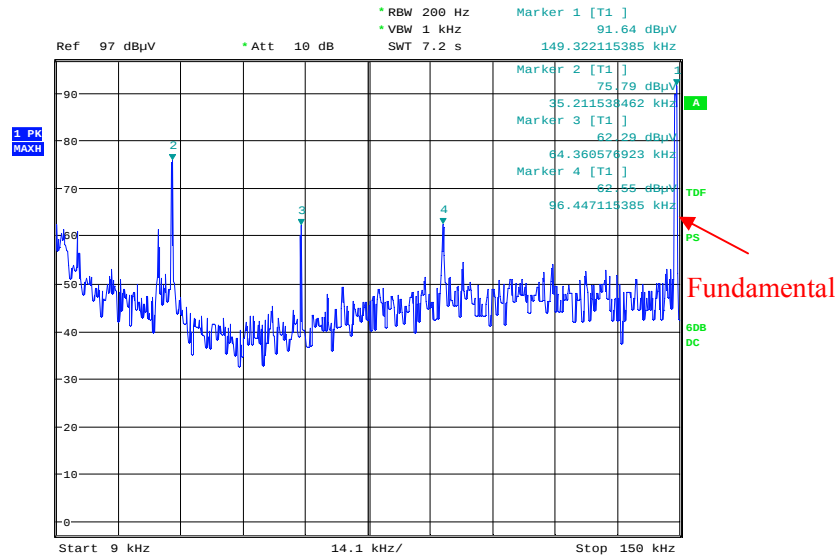
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

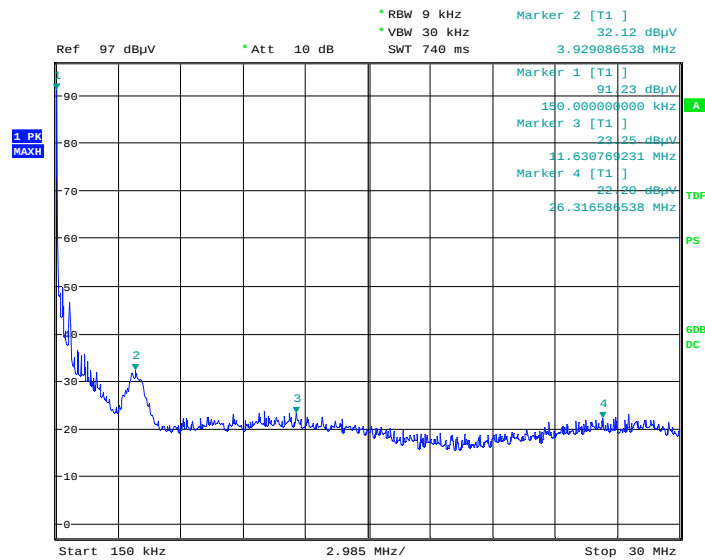
PL-0174

9kHz-150kHz (PK)



Date: 26.MAY.2019 12:07:46

150kHz-30MHz (PK)



Date: 26.MAY.2019 12:09:24

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @300m	Margin (dB)
35.21	75.79	PK	38.1	116.67	36.67	40.88
64.36	62.29	PK	31.3	111.43	31.43	49.14
96.45	62.55	PK	30.6	107.92	27.92	45.37
149.32	91.64	PK	29.4	104.12	24.12	12.48
150	91.23	PK	29.4	104.08	24.08	12.85

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @30m	Margin (dB)
3.93	32.12	PK	0.5	69.54	29.54	37.42
11.63	23.25	PK	-1.6	69.54	29.54	46.29
26.32	22.2	PK	-3.3	69.54	29.54	47.34

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

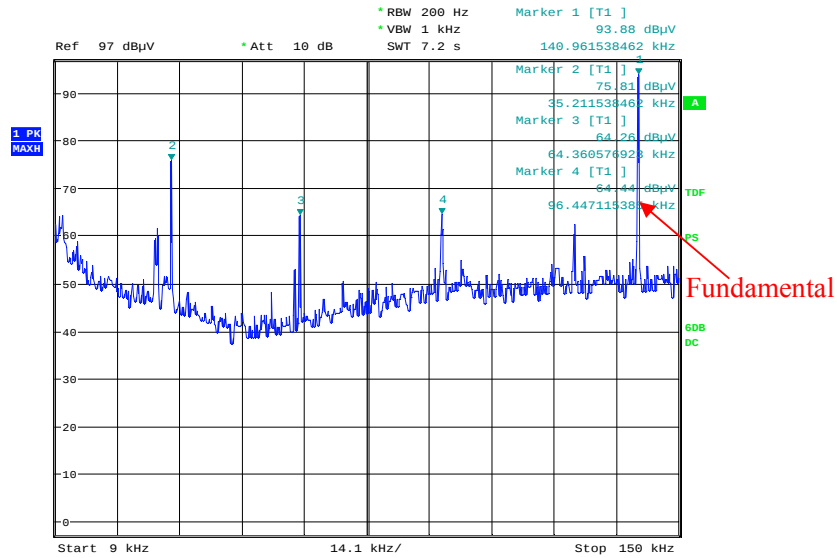
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

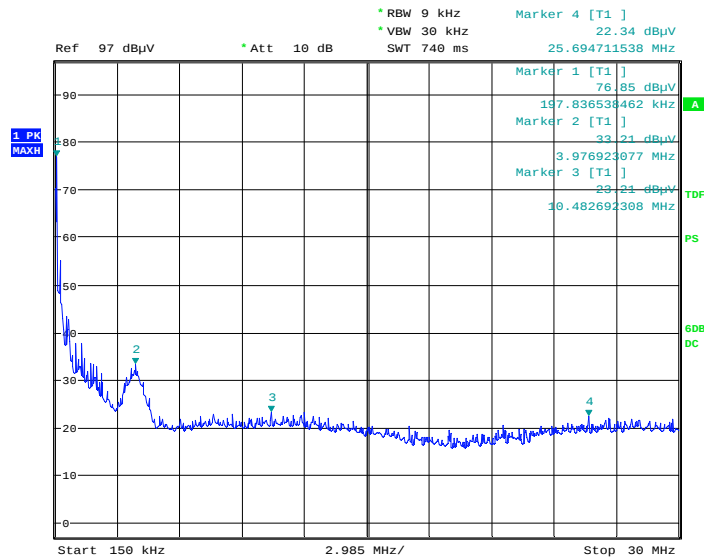
PL-0168

9kHz-150kHz (PK)



Date: 26.MAY.2019 10:01:25

150kHz-30MHz (PK)



Date: 26.MAY.2019 10:02:57

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @300m	Margin (dB)
35.21	75.81	PK	38.1	116.67	36.67	40.86
64.36	64.26	PK	31.3	111.43	31.43	47.17
96.45	64.44	PK	30.6	107.92	27.92	43.48
140.96	93.88	PK	29.4	104.62	24.62	10.74
197.84	76.85	PK	29.6	101.68	21.68	24.83

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @30m	Margin (dB)
3.98	33.21	PK	0.5	69.54	29.54	36.33
10.48	23.21	PK	-1.6	69.54	29.54	46.33
25.69	22.34	PK	-3.3	69.54	29.54	47.20

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

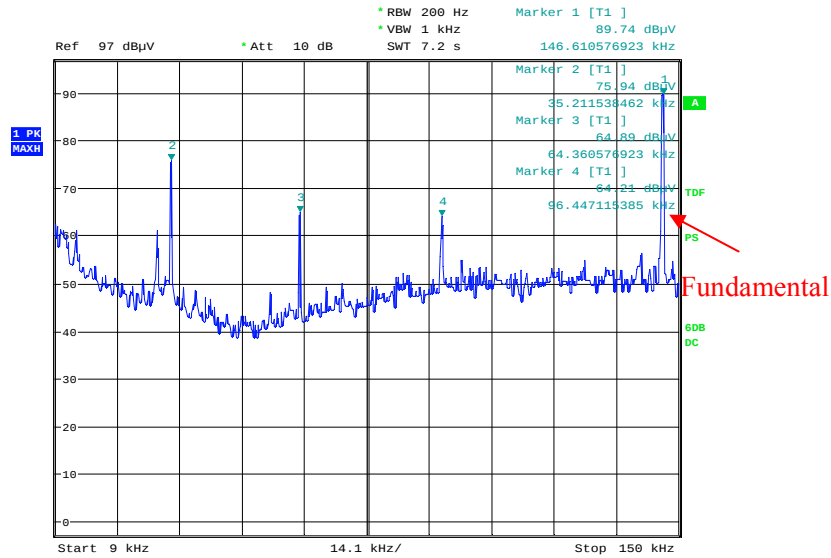
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

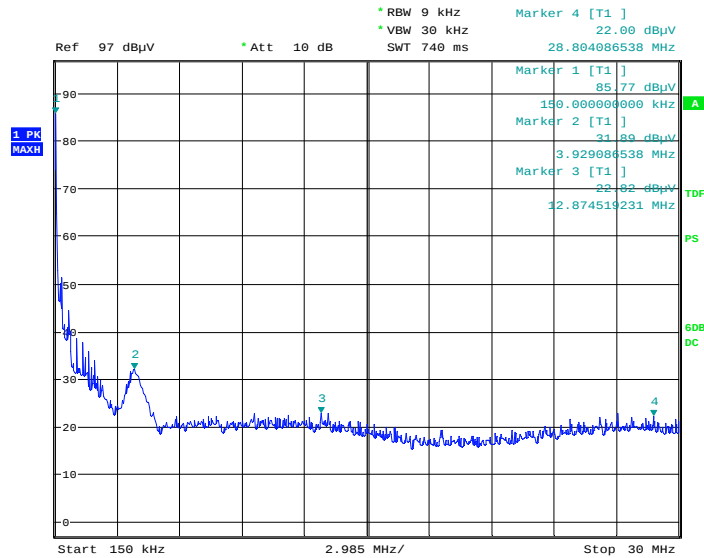
PL-0169

9kHz-150kHz (PK)



Date: 26.MAY.2019 02:50:29

150kHz-30MHz (PK)



Date: 26.MAY.2019 02:53:29

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @300m	Margin (dB)
35.21	75.94	PK	38.1	116.67	36.67	40.73
64.36	64.89	PK	31.3	111.43	31.43	46.54
96.45	64.21	PK	30.6	107.92	27.92	43.71
146.61	89.74	PK	29.4	104.28	24.28	14.54
150	85.77	PK	29.4	104.08	24.08	18.31

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @30m	Margin (dB)
3.93	31.89	PK	0.5	69.54	29.54	37.65
12.87	22.82	PK	-1.4	69.54	29.54	46.72
28.8	22	PK	-3.3	69.54	29.54	47.54

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

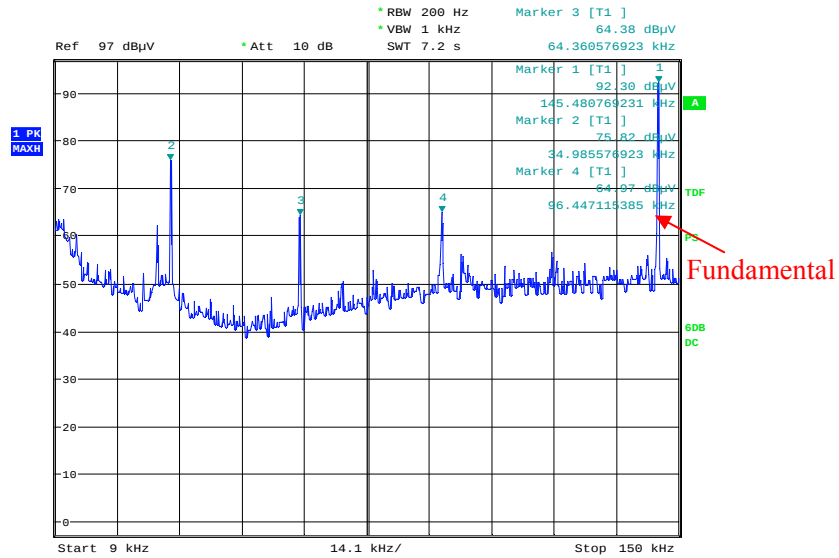
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

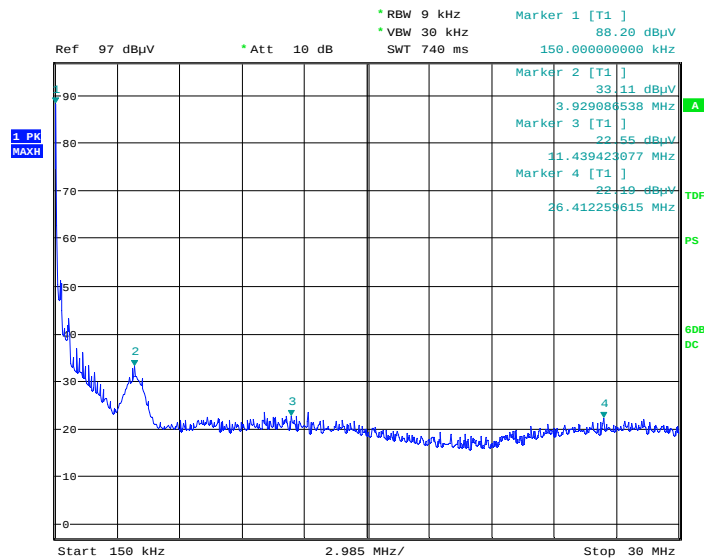
PL-0074QI

9kHz-150kHz (PK)



Date: 26.MAY.2019 11:01:45

150kHz-30MHz (PK)



Date: 26.MAY.2019 11:04:16

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @300m	Margin (dB)
34.99	75.82	PK	38.1	116.73	36.73	40.91
64.36	64.38	PK	31.3	111.43	31.43	47.05
96.45	64.97	PK	30.6	107.92	27.92	42.95
145.48	92.30	PK	29.4	104.35	24.35	12.05
150	88.20	PK	29.4	104.08	24.08	15.88

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m			Limit (dBμV/m) @3m	Limit (dBμV/m) @30m	Margin (dB)
3.93	33.11	PK	0.5	69.54	29.54	36.43
11.44	22.55	PK	-1.6	69.54	29.54	46.99
26.41	22.19	PK	-3.3	69.54	29.54	47.35

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

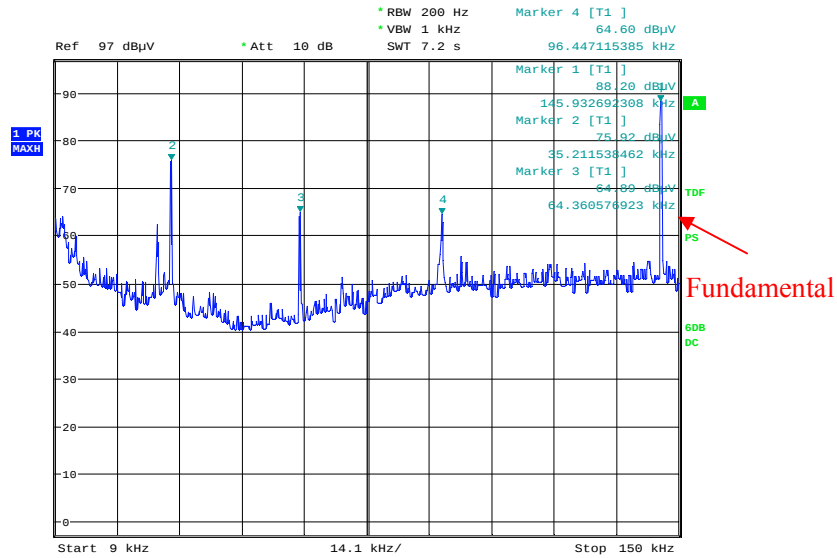
Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

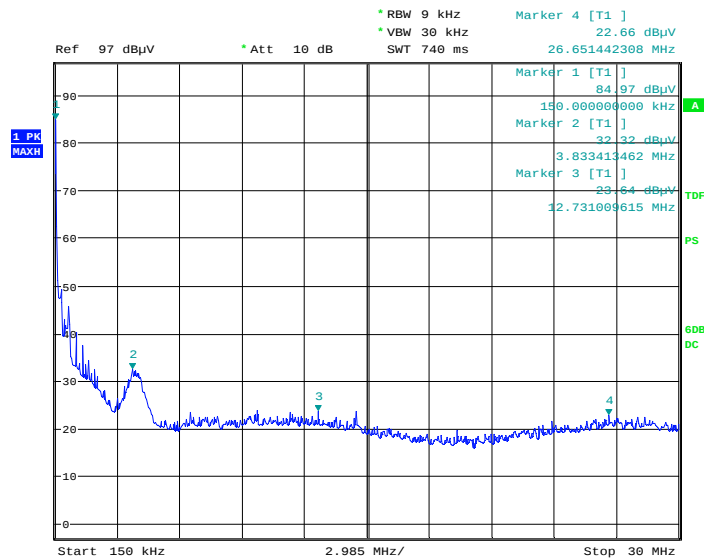
PL-0073A-QI

9kHz-150kHz (PK)



Date: 26.MAY.2019 01:55:52

150kHz-30MHz (PK)



Date: 26.MAY.2019 02:01:36

PL-0073A-QI

9kHz-490kHz:

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (kHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @300m	Margin (dB)
35.21	75.92	PK	38.1	116.67	36.67	40.75
64.36	64.89	PK	31.3	111.43	31.43	46.54
96.45	64.6	PK	30.6	107.92	27.92	43.32
145.93	88.2	PK	29.4	104.32	24.32	16.12
150	84.97	PK	29.4	104.08	24.08	19.11

490 kHz-30MHz

Indicated		PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.209		
Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m			Limit (dB μ V/m) @3m	Limit (dB μ V/m) @30m	Margin (dB)
3.83	32.32	PK	0.5	69.54	29.54	37.22
12.73	23.64	PK	-1.4	69.54	29.54	45.9
26.65	22.66	PK	-3.3	69.54	29.54	46.88

Note:

The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

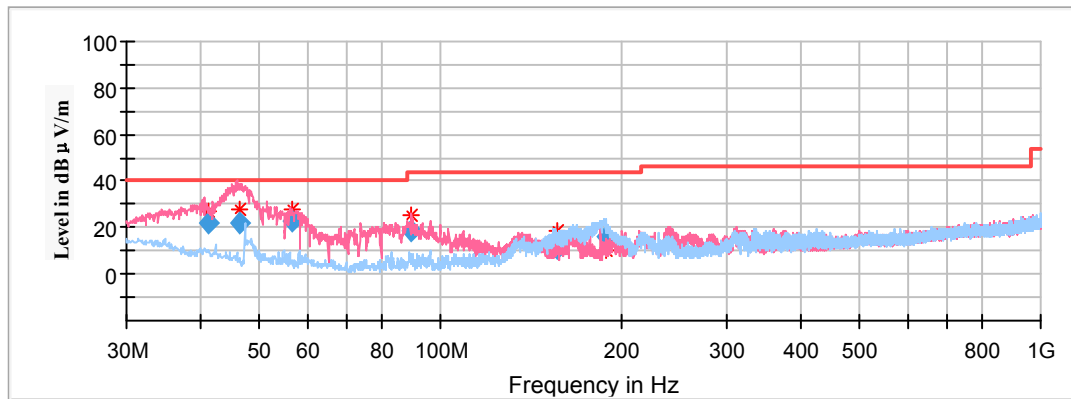
Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

30MHz-1GHz(PL-0175)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
41.123040	21.95	100.0	V	346.0	-17.5	40.00	18.05
46.225720	22.01	100.0	V	346.0	-20.8	40.00	17.99
56.703800	23.14	100.0	V	268.0	-23.2	40.00	16.86
89.303160	18.66	100.0	V	40.0	-23.1	43.50	24.84
156.793200	11.39	100.0	H	306.0	-18.1	43.50	32.11
189.272760	16.49	100.0	H	62.0	-17.9	43.50	27.01

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

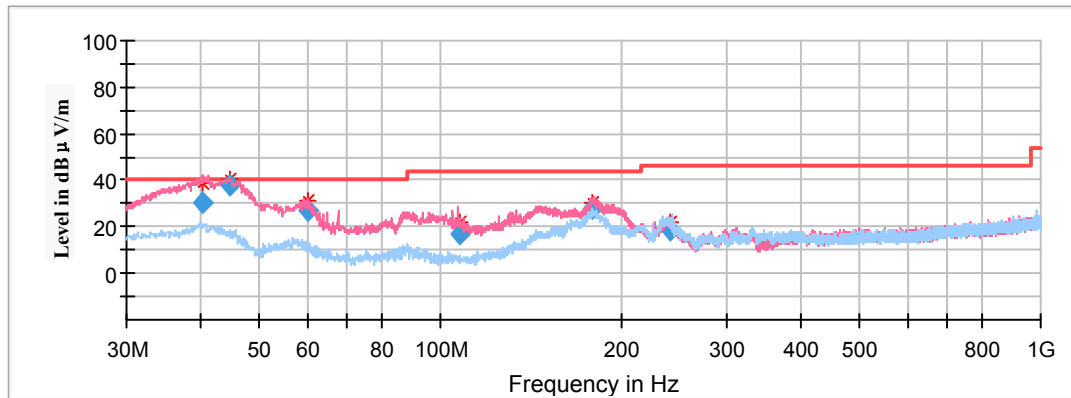
Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

30MHz-1GHz(PL-0174)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
40.213880	30.72	100.0	V	0.0	-16.9	40.00	9.28
44.658480	37.66	100.0	V	0.0	-19.8	40.00	2.34
59.923800	26.88	100.0	V	262.0	-23.3	40.00	13.12
108.053920	16.59	100.0	V	8.0	-21.9	43.50	26.91
179.248920	28.16	100.0	V	217.0	-17.6	43.50	15.34
242.225600	18.74	100.0	H	142.0	-17.8	46.00	27.26

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

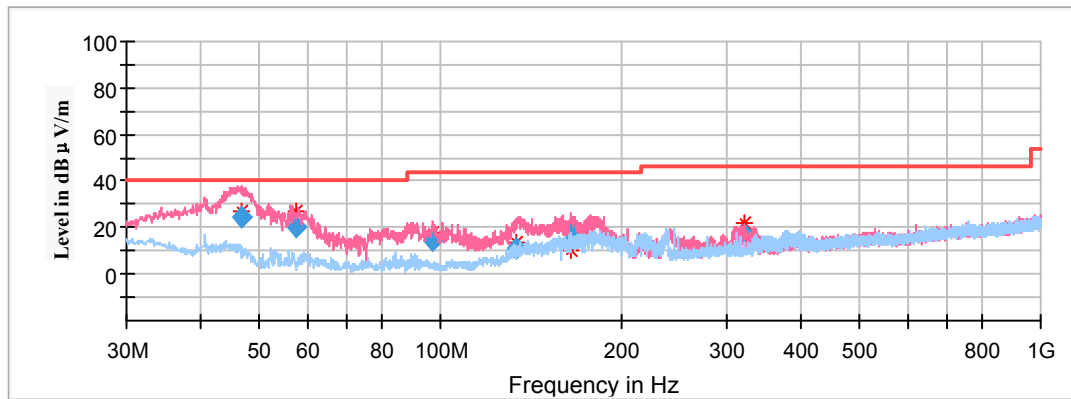
Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

30MHz-1GHz(PL-0168)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
46.614640	24.62	100.0	V	266.0	-21.0	40.00	15.38
57.468720	20.51	100.0	V	1.0	-23.2	40.00	19.49
96.894880	14.52	100.0	V	1.0	-22.9	43.50	28.98
133.734760	11.46	100.0	V	358.0	-18.6	43.50	32.04
165.400840	17.63	100.0	V	29.0	-18.0	43.50	25.87
319.759960	17.06	100.0	V	340.0	-15.6	46.00	28.94

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

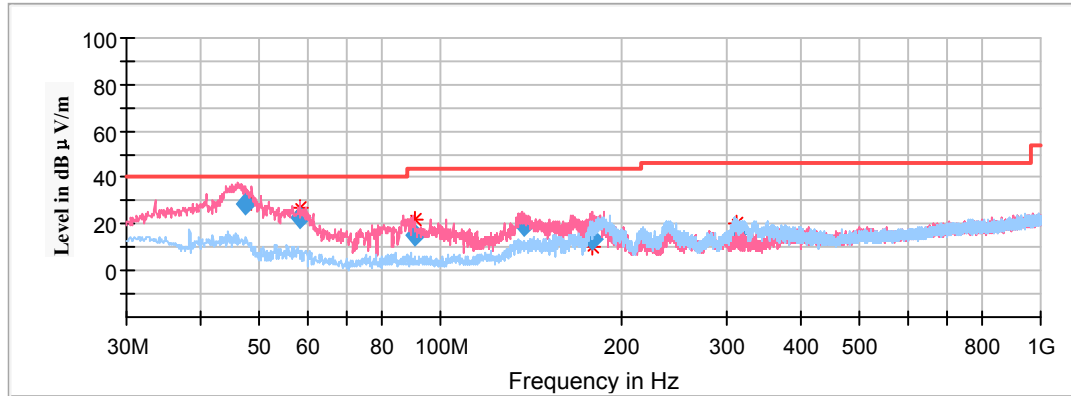
Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

30MHz-1GHz(PL-0169)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
47.252320	28.61	100.0	V	252.0	-21.4	40.00	11.39
58.375360	22.96	100.0	V	252.0	-23.2	40.00	17.04
90.631880	14.93	100.0	V	30.0	-23.1	43.50	28.57
137.943040	19.11	100.0	V	344.0	-18.0	43.50	24.39
178.531640	13.51	100.0	V	344.0	-17.6	43.50	29.99
310.695440	15.72	100.0	H	309.0	-15.8	46.00	30.28

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

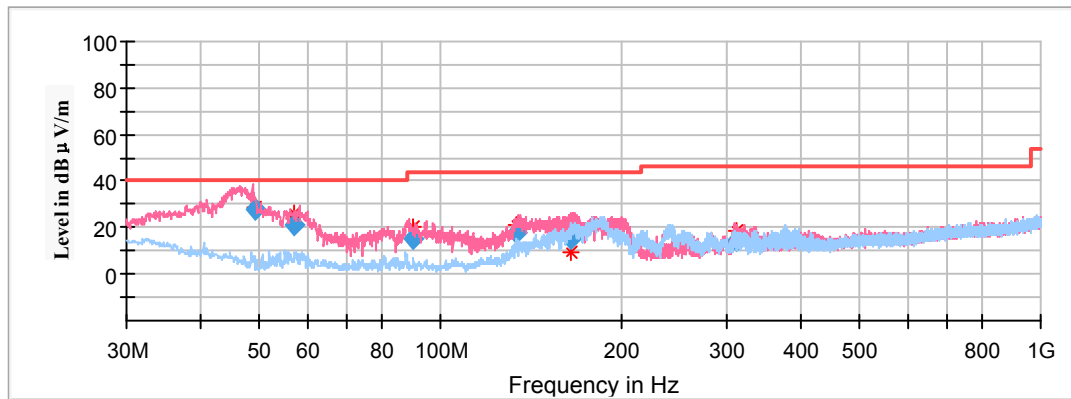
Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

30MHz-1GHz(PL-0074QI)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
49.005120	27.46	100.0	V	358.0	-22.4	40.00	12.54
57.107640	20.85	100.0	V	268.0	-23.2	40.00	19.15
89.758960	14.95	100.0	V	0.0	-23.1	43.50	28.55
133.920280	17.72	100.0	V	0.0	-18.6	43.50	25.78
165.262600	15.16	100.0	V	173.0	-18.0	43.50	28.34
310.651560	14.76	100.0	V	340.0	-15.8	46.00	31.24

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

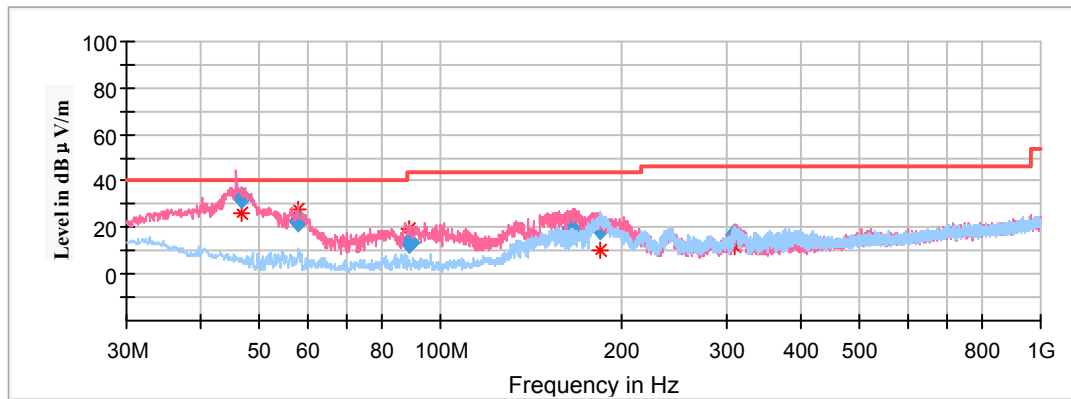
Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

30MHz-1GHz(PL-0073A-QI)

(Pre-scan in the X,Y and Z axes of orientation, the worst case **in Z-axis of orientation** was recorded)

Full Spectrum



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dB μ V/m)	Height (cm)	Polar (H/V)				
46.534560	32.86	100.0	V	293.0	-20.9	40.00	7.14
57.764920	23.08	100.0	V	293.0	-23.2	40.00	16.92
88.435400	13.67	100.0	V	0.0	-23.1	43.50	29.83
165.383880	19.61	100.0	V	223.0	-18.0	43.50	23.89
185.079040	19.41	100.0	H	249.0	-17.8	43.50	24.09
308.488880	17.11	100.0	V	31.0	-15.8	46.00	28.89

Note:

Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

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