

Energy Harness Corporation

LETTER REPORT

SCOPE OF WORK

EMC TESTING – Active Airflow UV-C Fixture, NMN

REPORT NUMBER

104466224ATL-005U

ISSUE DATE

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LETTER REPORT

10/30/2020

Intertek Report No. 104466224ATL-005U

Intertek Project No. G104466224

Peter Lehrer
Energy Harness Corporation
71 Mid Cape Terrace Suite #8
Cape Coral, FL 33991
peter@energyharness.com

Ph: (239) 790-3300 Ex 113

Subject: EMC Testing performed on the Active Airflow UV-C Fixture, NMN

Dear Mr. Peter Lehrer,

This letter report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

FCC 47CFR Part15, Subpart B:2020
ICES-003:2019

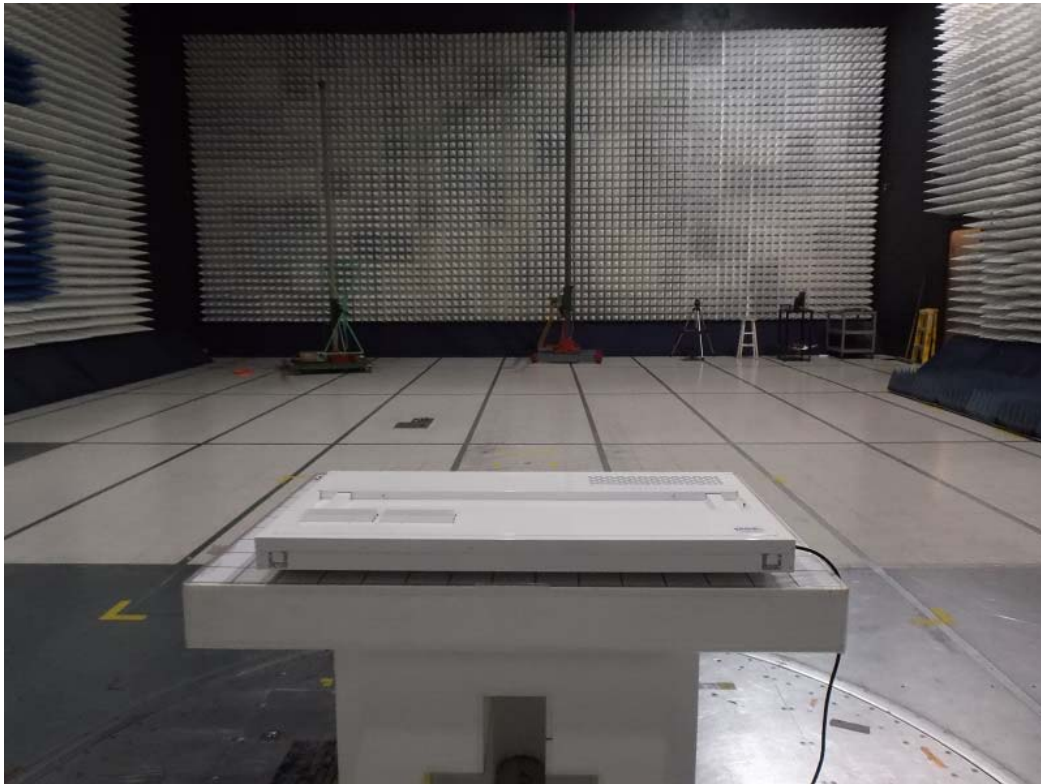
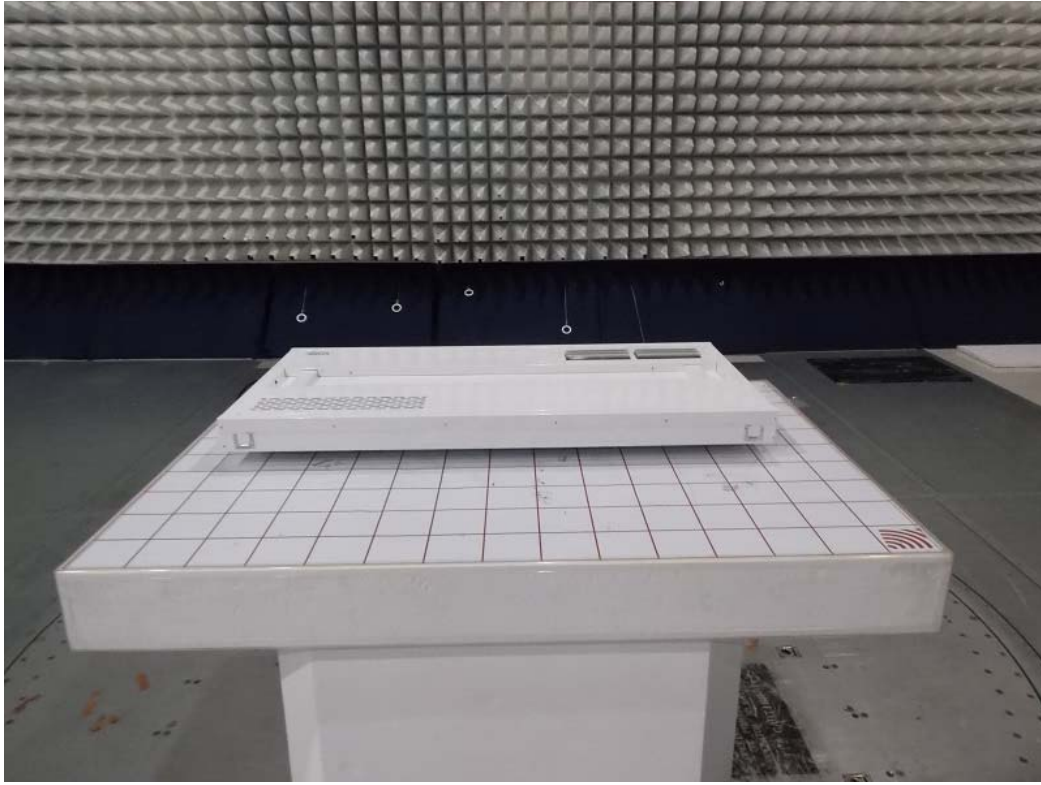
If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Account Manager.

Completed by:	Yuneush Khan	Reviewed by:	Troy Ihle
Title:	EMC Engineer	Title:	Project Engineer
Signature:		Signature	
Date	10/30/2020	Date:	10/30/2020

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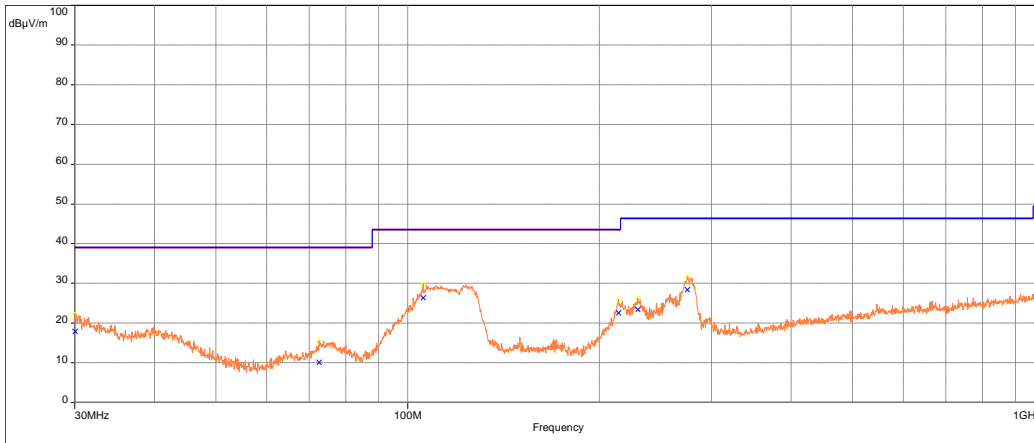


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Plots/Data:

FCC Part 15_30M-1GHz- Class A 30MHz-1GHz.

Emissions Graph: Active Airflow UV-C Fixture_120VAC,60Hz



FCC Part 15/FCC Part 15_30M-1GHzA
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Data Results:

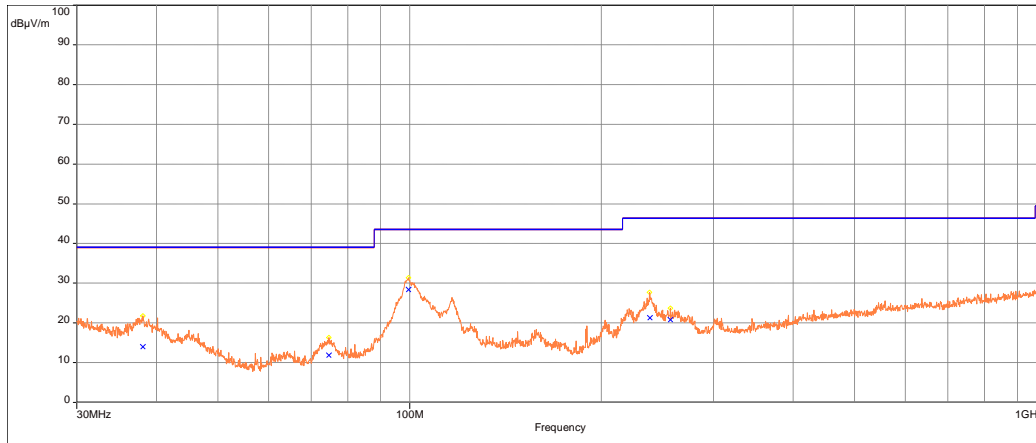
QuasiPeak (PASS) (6)

Frequency (MHz)	S R	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	(RBW) (kHz)	Correction (dB)
30.06258367	1	17.85	39.00	-21.15	105.00	1.15	Vertical	120.00	-12.58
72.60575641	1	10.13	39.00	-28.87	250.00	1.91	Vertical	120.00	-23.97
105.7590833	1	26.34	43.50	-17.16	3.00	1.11	Vertical	120.00	-18.75
214.2710354	1	22.52	43.50	-20.98	214.00	1.36	Vertical	120.00	-20.84
229.8254487	1	23.43	46.40	-22.97	239.00	1.05	Vertical	120.00	-19.37
274.9835803	1	28.41	46.40	-17.99	72.00	2.43	Horizontal	120.00	-16.45

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FCC Part 15_30M-1GHz- Class A 30MHz-1GHz.

Emissions Graph: Active Airflow UV-C Fixture up_120VAC,60Hz_RE 30MHz-1GHz (Class A) Fixture Up



FCC Part 15/FCC Part 15_30M-1GHzA

Data Results:

QuasiPeak (PASS) (6)

Frequency (MHz)	SR	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	(RBW) (kHz)	Correction (dB)
38.11422469	1	14.00	39.00	-25.00	317.00	1.20	Vertical	120.00	-16.40
74.66094905	1	11.84	39.00	-27.16	231.00	1.60	Vertical	120.00	-23.52
99.64439744	1	28.36	43.50	-15.14	285.00	1.36	Vertical	120.00	-19.18
238.2779103	1	21.33	46.40	-25.07	178.00	1.00	Vertical	120.00	-17.67
256.6419264	1	20.77	46.40	-25.63	349.00	1.13	Vertical	120.00	-15.35
997.0648815	1	20.95	49.50	-28.55	94.00	2.33	Vertical	120.00	-4.70

Test Personnel: FL FL
 Supervising/Reviewing Engineer:
 (Where Applicable)
 Product Standard: FCC 47 CFR Part 15
 Input Voltage: 120VAC/60Hz
 Pretest Verification w/ Ambient Signals or BB Source: Y

Test Date: 10/22/2020
 Limit Applied: Class A
 Ambient Temperature: 22.9 °C
 Relative Humidity: 45.4 %
 Atmospheric Pressure: 986.8 mbars

Deviations, Additions, or Exclusions: None

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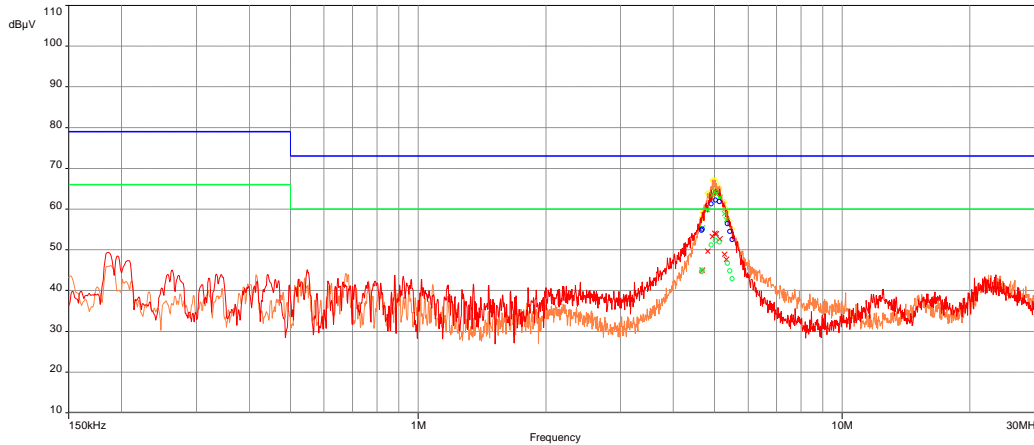


LETTER REPORT

Plots/Data:

FCC Part 15.107– Class A 150kHz-30MHz.

Emissions Graph: Active Airflow UV-C Fixture_120VAC,60Hz



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Data Results:

Final QP and AVG (16)

Frequency (MHz)	S R	AVG Level (dBµV)	QP Level (dBµV)	AVG Limit (dBµV)	QP Limit (dBµV)	AVG Margin (dB)	QPeak Margin (dB)	Position	Correction (dB)
4.667734103	1	44.63	54.77	60.00	73.00	-15.37	-18.23	Phase 1	10.21
4.678999615	1	44.99	55.02	60.00	73.00	-15.01	-17.98	Phase 1	10.21
4.913710256	1	51.14	61.26	60.00	73.00	-8.86	-11.74	Phase 1	10.22
5.029767051	1	52.32	62.21	60.00	73.00	-7.68	-10.79	Phase 1	10.22
5.142717692	1	51.96	61.78	60.00	73.00	-8.04	-11.22	Phase 1	10.23
5.364649359	1	46.66	56.41	60.00	73.00	-13.34	-16.59	Phase 1	10.24
5.434666538	1	44.79	54.49	60.00	73.00	-15.21	-18.51	Phase 1	10.24
5.506275897	1	42.85	52.50	60.00	73.00	-17.15	-20.50	Phase 1	10.24
4.681792308	2	44.97	55.37	60.00	73.00	-15.03	-17.63	Phase 2	10.20
4.818234103	2	49.65	59.79	60.00	73.00	-10.35	-13.21	Phase 2	10.20
4.947683077	2	53.25	63.38	60.00	73.00	-6.75	-9.62	Phase 2	10.21
5.013178205	2	54.03	64.24	60.00	73.00	-5.97	-8.76	Phase 2	10.21
5.050214744	2	53.90	63.73	60.00	73.00	-6.10	-9.27	Phase 2	10.21
5.147099744	2	52.73	62.89	60.00	73.00	-7.27	-10.11	Phase 2	10.22
5.285417949	2	48.91	58.91	60.00	73.00	-11.09	-14.09	Phase 2	10.22
5.334886538	2	47.69	57.33	60.00	73.00	-12.31	-15.67	Phase 2	10.22

Test Personnel: FL FL
 Supervising/Reviewing Engineer: _____
 (Where Applicable) _____
 Product Standard: FCC 47 CFR Part 15, Subpart B
 Input Voltage: 120VAC/60Hz
 Pretest Verification w/ Ambient Signals or BB Source: Y

Test Date: 10/22/2020
 Limit Applied: Class A
 Ambient Temperature: 22.9 °C
 Relative Humidity: 45.4 %
 Atmospheric Pressure: 986.9 mbars

Deviations, Additions, or Exclusions: None