

FCC Test Report

FCC ID: 2AZAM-BAC619

Original Grant

Report No. : TB-FCC178934
Applicant : TRAEGER PELLET GRILLS LLC
Equipment Under Test (EUT)
EUT Name : INDUCTION COOKTOP
Model No. : BAC619
Series Model No. : BAC619-X or BAC619-XX (Suffix X or XX can be digits or letters, will be used for customized models. These customized models will be identical with BAC619 except for functions or color in appearance.)
Brand Name : TRAEGER
Sample ID : 20201022-04-1#
Receipt Date : 2021-03-18
Test Date : 2021-03-19 to 2021-05-07
Issue Date : 2021-05-08
Standards : FCC Part 18
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements.

Test/Witness Engineer :

Rebecca

Engineer Supervisor :

IVAN SU

Engineer Manager :

Ray Lai



Rebecca

Ivan Su

Ray Lai

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information about EUT

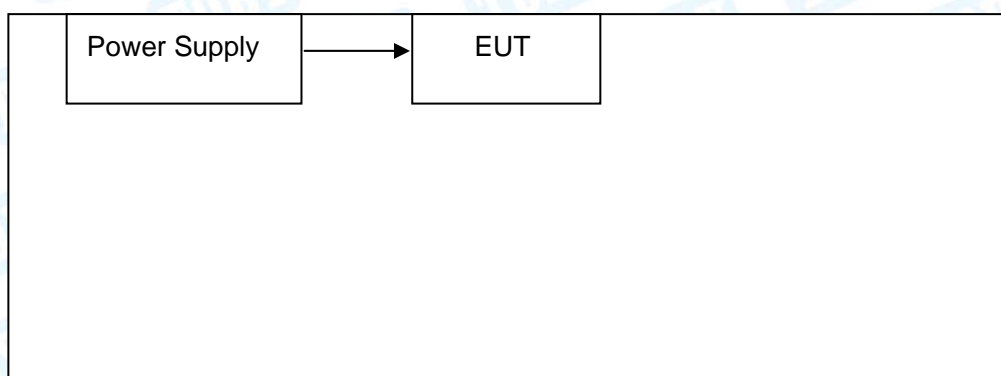
1.1 Client Information

Applicant	:	TRAEGER PELLETT GRILLS LLC
Address	:	1215 E WILMINGTON AVE SUITE 200, SALT LAKE CITY, UT 84106
Manufacturer	:	Luxine(Xi'an)Electronics Co.,LTD.
Address	:	29th, 3rd Shanglinyuan Rd, Hi-tech Development Zone, Xi'an, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	INDUCTION COOKTOP
Models No.	:	BAC619, BAC619-X or BAC619-XX (Suffix X or XX can be digits or letters, will be used for customized models. These customized models will be identical with BAC619 except for functions or color in appearance.)
Brand Name	:	TRAEGER
Power Supply	:	Input: AC 120V 60Hz 1410W
Working Frequency	:	20KHz~40KHz
Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

The EUT has been tested with water up to 80% of the maximum capacity of the boiler.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of the EUT operation mode, and the worst Case is when the EUT is operation with the maximum power, so the conducted and radiated emission data of below only showed the worst case.

For Conducted Test	
Final Test Mode	Description
Mode 1	Max. Power Working Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	Max. Power Working Mode

1.6 Test Location

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

2. Test Summary

FCC Part 18			
Standard Section	Test Item	Test Method	Judgment
18.305	Radiated Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS
18.307(a)	Conducted Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS

Note: N/A is an abbreviation for Not Applicable.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 01, 2020	Feb. 28, 2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Feb. 25, 2021	Feb. 24, 2022
Pre-amplifier	HP	8449B	3008A00849	Feb. 25, 2021	Feb. 24, 2022
Cable	HUBER+SUHNER	100	SUCOFLEX	Feb. 25, 2021	Feb. 24, 2022
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 18.307(a)

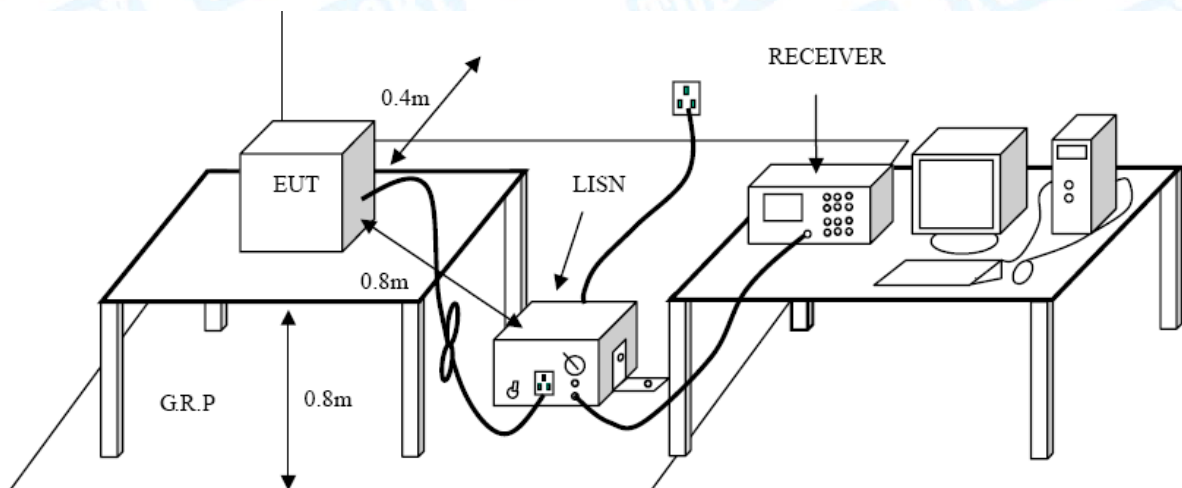
5.1.2 Test Limit

Conducted Emission Test Limit

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
0.009 ~ 0.05	110	--
0.05 ~ 0.15	90 ~ 80	--
0.15 ~ 0.5	66 ~ 56 *	56 ~ 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

Notes: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequencies.

5.2 Test Setup



5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from the nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation

The test is no deviation from the standard.

5.5 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 18.305

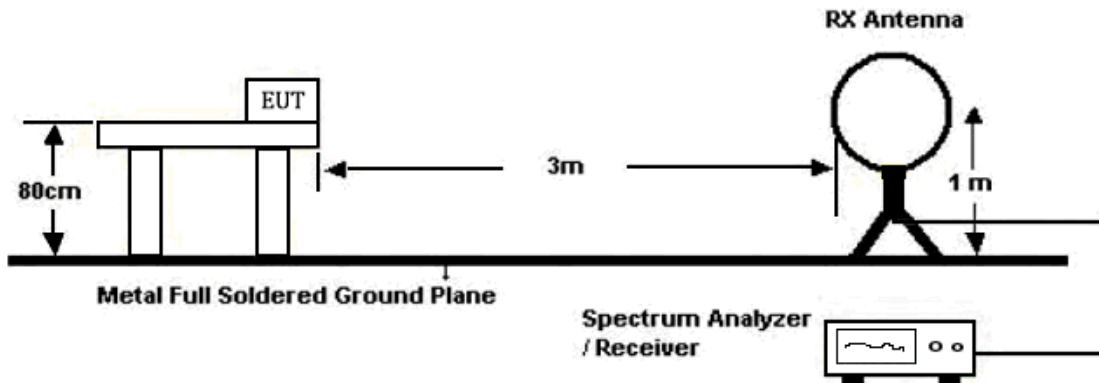
6.1.2 Test Limit

Radiated Emission Limit (9kHz~30MHz)

Frequency (MHz)	Field Strength Limit (microvolt/meter)	Measurement Distance (meters)
0.009~30	1500	30

Note: Emission Level(dBuV/m)=20log Emission Level(uV/m)

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 30MHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) An initial scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.
- (3) For the actual test configuration, please see the test setup photo.

6.4 Deviation

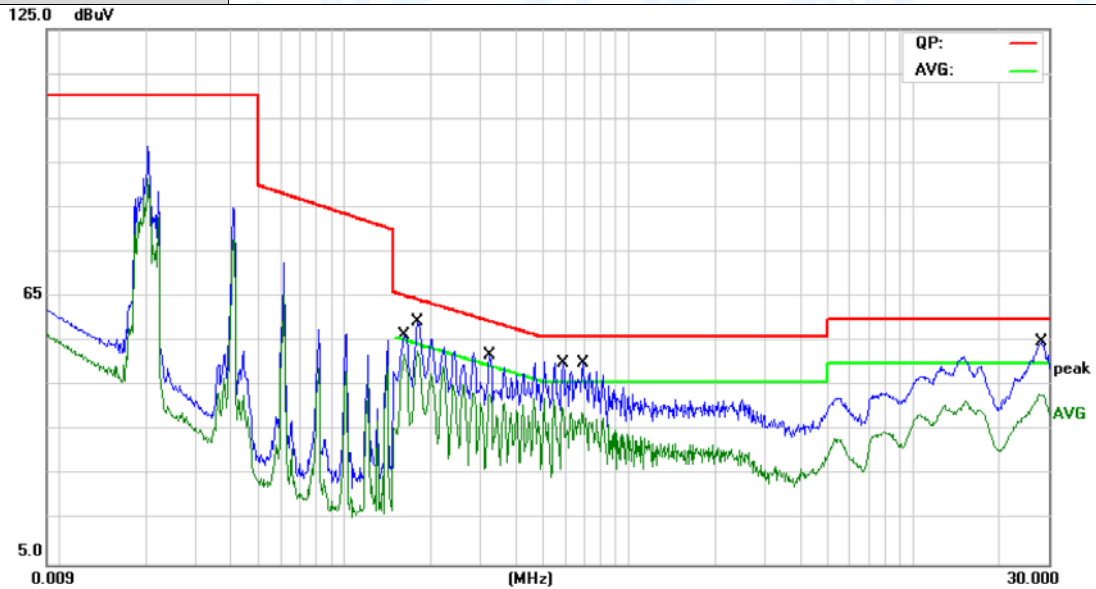
For Radiated Emission, test at 3m distance instead of 30m distance. 40dB was plus to the limit of 30m measurement limit. More details refer to FCC part 15.31(f)(2).

6.5 Test Data

Please refer to the Attachment B.

Attachment A-- Conducted Emission Test Data

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		

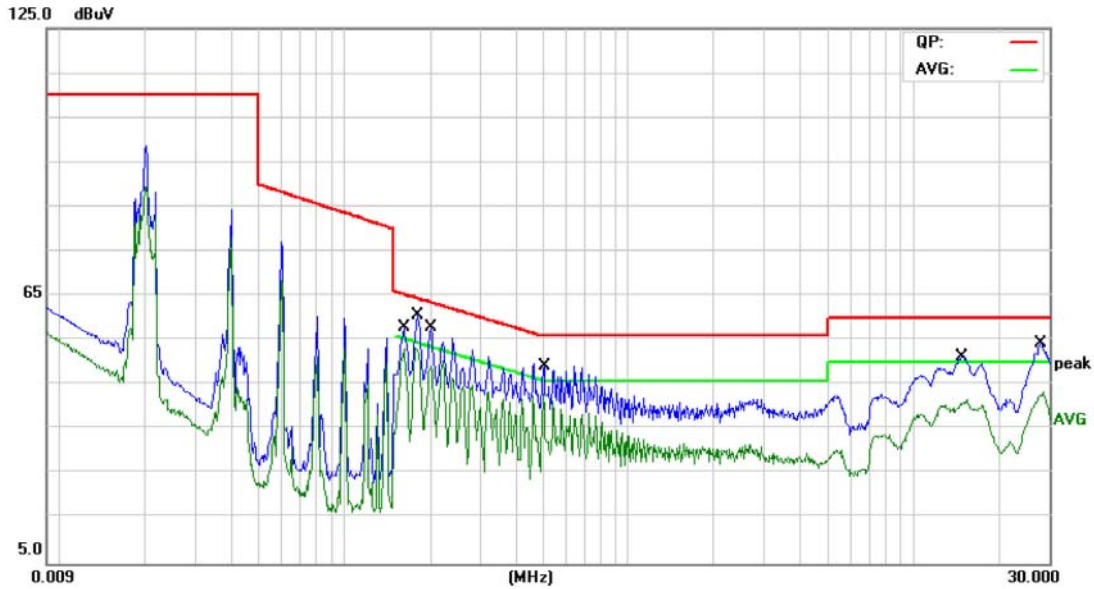


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1620	46.96	9.80	56.76	65.36	-8.60	QP
2		0.1620	41.55	9.80	51.35	55.36	-4.01	AVG
3		0.1819	49.00	9.80	58.80	64.39	-5.59	QP
4	*	0.1819	43.90	9.80	53.70	54.39	-0.69	AVG
5		0.3260	38.16	9.80	47.96	59.55	-11.59	QP
6		0.3260	31.12	9.80	40.92	49.55	-8.63	AVG
7		0.5899	29.66	9.80	39.46	56.00	-16.54	QP
8		0.5899	23.94	9.80	33.74	46.00	-12.26	AVG
9		0.6940	32.52	9.80	42.32	56.00	-13.68	QP
10		0.6940	25.40	9.80	35.20	46.00	-10.80	AVG
11		28.1700	40.71	10.15	50.86	60.00	-9.14	QP
12		28.1700	31.43	10.15	41.58	50.00	-8.42	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



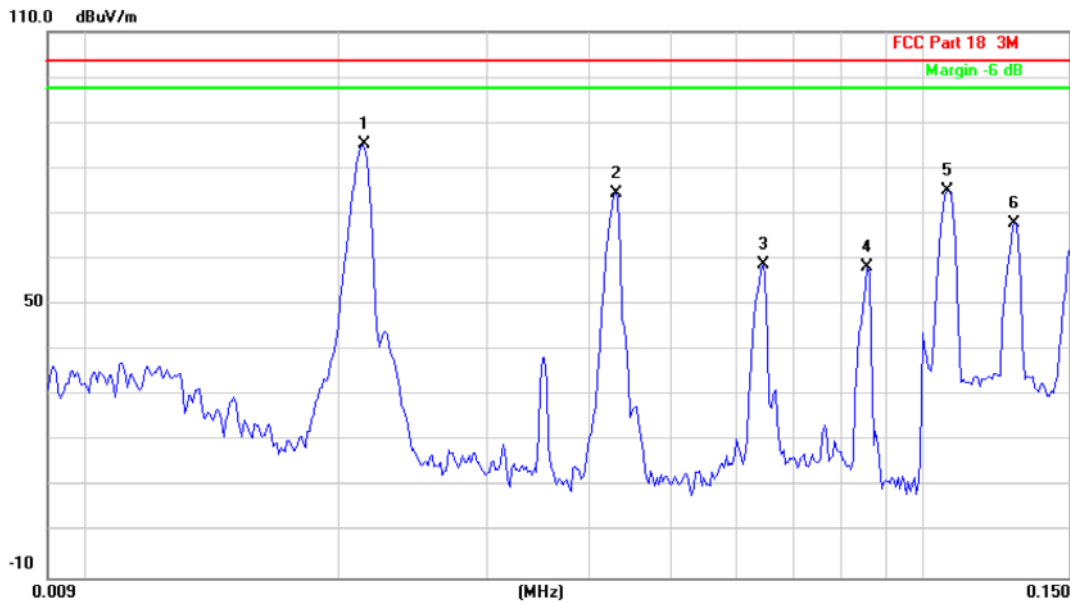
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1620	47.38	9.80	57.18	65.36	-8.18	QP
2		0.1620	41.16	9.80	50.96	55.36	-4.40	AVG
3		0.1819	48.94	9.80	58.74	64.39	-5.65	QP
4	*	0.1819	43.44	9.80	53.24	54.39	-1.15	AVG
5		0.2020	47.40	9.80	57.20	63.52	-6.32	QP
6		0.2020	40.27	9.80	50.07	53.52	-3.45	AVG
7		0.5060	30.12	9.80	39.92	56.00	-16.08	QP
8		0.5060	23.25	9.80	33.05	46.00	-12.95	AVG
9		14.8380	38.15	10.00	48.15	60.00	-11.85	QP
10		14.8380	29.06	10.00	39.06	50.00	-10.94	AVG
11		28.1140	39.77	10.14	49.91	60.00	-10.09	QP
12		28.1140	31.04	10.14	41.18	50.00	-8.82	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Attachment B-- Radiated Emission Test Data

Temperature:	22 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Ant 0°		
Test Mode:	Mode 1		
Remark:	Frequency Range: 9kHz~0.15MHz		

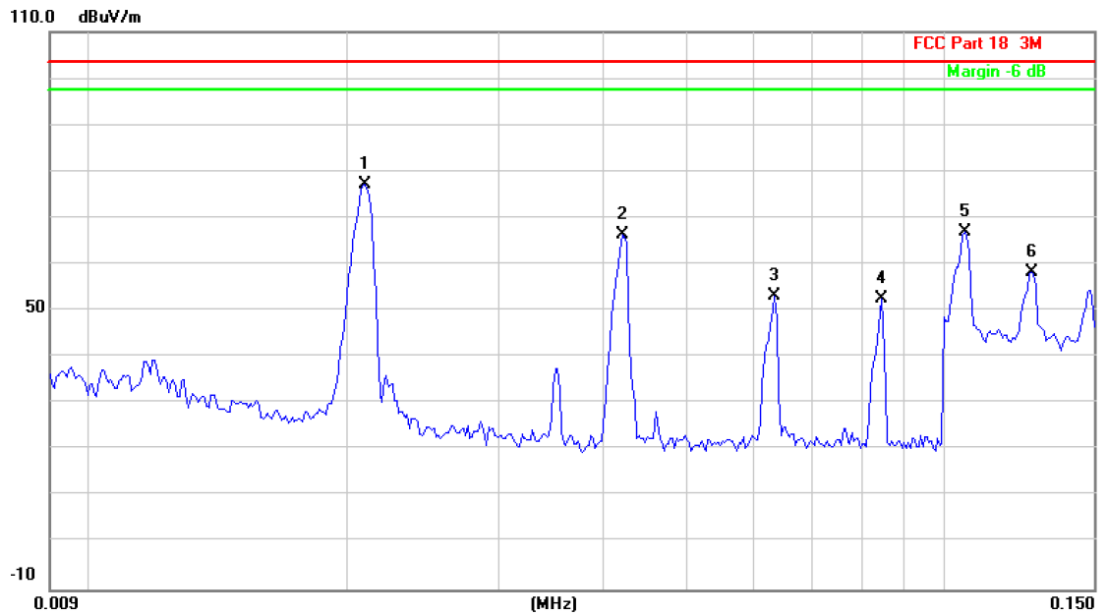


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	0.0214	64.82	20.44	85.26	103.50	-18.24	peak
2		0.0430	54.29	20.27	74.56	103.50	-28.94	peak
3		0.0645	38.39	20.49	58.88	103.50	-44.62	peak
4		0.0859	37.51	20.76	58.27	103.50	-45.23	peak
5		0.1070	48.22	26.79	75.01	103.50	-28.49	peak
6		0.1289	42.54	25.45	67.99	103.50	-35.51	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	22 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Ant 90°		
Test Mode:	Mode 1		
Remark:	Frequency Range: 9kHz~0.15MHz		

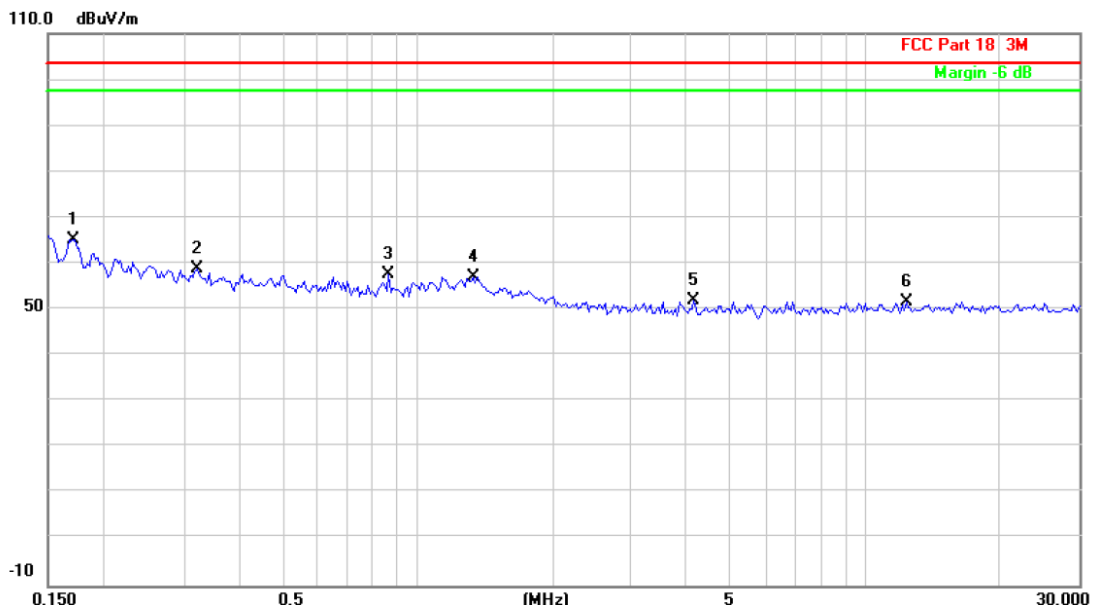


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	0.0210	56.78	20.44	77.22	103.50	-26.28	peak
2		0.0421	46.10	20.28	66.38	103.50	-37.12	peak
3		0.0634	32.59	20.47	53.06	103.50	-50.44	peak
4		0.0844	31.74	20.75	52.49	103.50	-51.01	peak
5		0.1058	39.99	26.84	66.83	103.50	-36.67	peak
6		0.1267	32.64	25.60	58.24	103.50	-45.26	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	22 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Ant 0°		
Test Mode:	Mode 1		
Remark:	Frequency Range: 0.15MHz~30MHz		

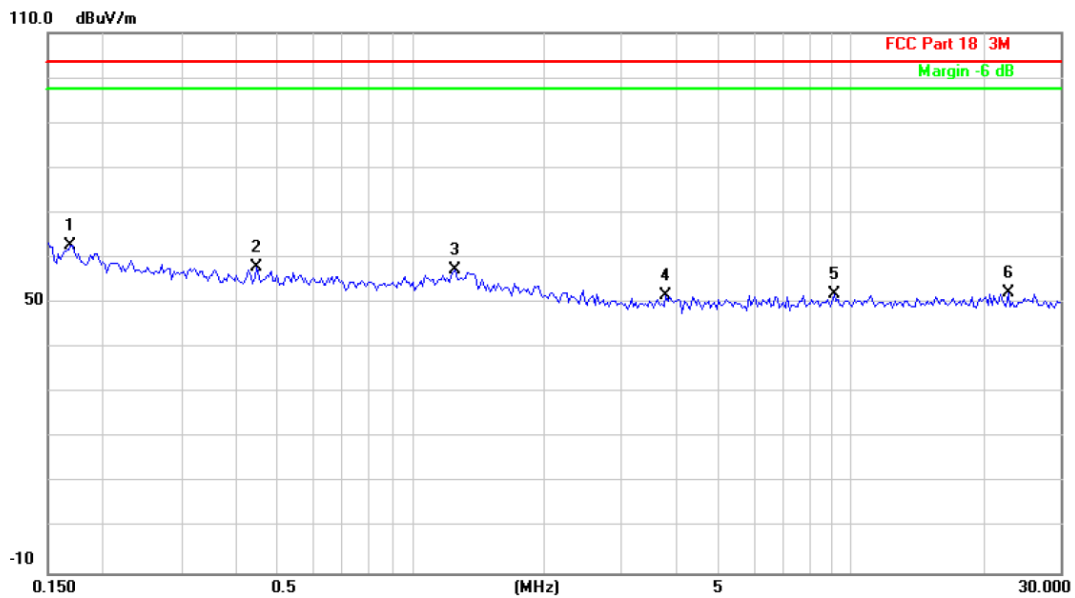


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	0.1703	41.57	23.73	65.30	103.50	-38.20	peak
2		0.3217	36.69	22.10	58.79	103.50	-44.71	peak
3		0.8618	36.80	20.71	57.51	103.50	-45.99	peak
4		1.3308	36.60	20.55	57.15	103.50	-46.35	peak
5		4.1356	31.53	20.37	51.90	103.50	-51.60	peak
6		12.3182	31.46	20.29	51.75	103.50	-51.75	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	22 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Ant 90°		
Test Mode:	Mode 1		
Remark:	Frequency Range: 0.15MHz~30MHz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	0.1685	38.94	23.80	62.74	103.50	-40.76	peak
2		0.4468	36.50	21.49	57.99	103.50	-45.51	peak
3		1.2621	36.70	20.56	57.26	103.50	-46.24	peak
4		3.7994	31.42	20.34	51.76	103.50	-51.74	peak
5		9.1557	31.34	20.59	51.93	103.50	-51.57	peak
6		22.7755	32.03	20.13	52.16	103.50	-51.34	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

-----END OF REPORT-----