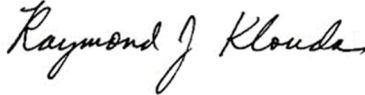


**Engineering Test Report No. 2501036-03**

Report Date	June 26, 2025	
Manufacturer Name	Elkay Manufacturing Company	
Manufacturer Address	1333 Butterfield Rd Ste 200 Downers Grove, IL 60515	
Model No.	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station LZWS-LRPBM28K-W1	
Date Received	June 5, 2025	
Test Dates	June 10, 2025 – June 25, 2025	
Specifications	FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225	
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
Signature		
Tested by	Edwin Casas	
Signature		
Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894	
PO Number	1082110	

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Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225 test specification. The data presented in this test report pertains to the EUT on the test date(s) specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification. This report must not be used to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Table of Contents

1.	Report Revision History	3
2.	Introduction	4
2.1.	Scope of Tests	4
2.2.	Purpose	4
2.3.	Identification of the EUT	4
3.	Power Input	4
4.	Grounding	4
5.	Support Equipment	4
6.	Interconnect Leads	4
7.	Modifications Made to the EUT	4
8.	Modes of Operation	4
8.1.	Tx	4
9.	Test Specifications	5
10.	Test Plan	5
11.	Deviation, Additions to, or Exclusions from Test Specifications	5
12.	Laboratory Conditions	5
13.	Summary	5
14.	Sample Calculations	5
15.	Statement of Conformity	6
16.	Certification	6
17.	Photographs of EUT	7
18.	Block Diagram of Test Setup	8
19.	Equipment List	9
20.	Powerline Conducted Emissions Test (AC Mains)	10
21.	Frequency Stability	17
22.	Radiated Emissions	20
23.	Occupied Bandwidth Measurements	25
24.	Scope of Accreditation	28

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1. Report Revision History

Revision	Date	Description
–	02 JUL 2025	Initial Release of Engineering Test Report No. 2501036-03

2. Introduction

2.1. Scope of Tests

This document presents the results of a series of RF emissions tests that were performed on the Elkay Manufacturing Company Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station (hereinafter referred to as the Equipment Under Test (EUT)). The EUT was manufactured and submitted for testing by Elkay Manufacturing Company located in Downers Grove, IL.

2.2. Purpose

The test series was performed to determine if the EUT meets the RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Sections 15.225.

Testing was performed in accordance with ANSI C63.10-2013.

2.3. Identification of the EUT

The EUT was identified as follows:

EUT Identification	
Product Description	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station
Model/Part No.	LZWS-LRPBM28K-W1
S/N	250615902
Band of Operation	13.553-13.567 MHz
20dB Bandwidth	599Hz
99% Bandwidth	1.85kHz
Emission Classification	1K85X3D

The EUT listed above was used throughout the test series.

3. Power Input

The EUT obtained 120V 60Hz power via a 3-wire, 1-meter, unshielded power cord.

4. Grounding

The EUT was connected to ground through the third wire of its input power cord.

5. Support Equipment

No support equipment was used during the tests.

6. Interconnect Leads

No interconnect leads were used during the tests.

7. Modifications Made to the EUT

No modifications were made to the EUT during the testing.

8. Modes of Operation

The EMC tests were performed with the EUT operating in the test mode described below.

8.1. Tx

This mode was achieved by applying power to the device. The 13.56MHz transmitter automatically transmitted once every 20seconds.

9. Test Specifications

The tests were performed to selected portions of, and in accordance with the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225 specification.

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C
- ANSI C63.4-2014, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz"
- ANSI C63.10-2013, "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"

10. Test Plan

No test plan was provided. Instructions were provided by personnel from Elkay Manufacturing Company and used in conjunction with the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225, and ANSI C63.4-2014 specifications.

11. Deviation, Additions to, or Exclusions from Test Specifications

There were no deviations, additions to, or exclusions from the test specifications during this test series.

12. Laboratory Conditions

Ambient Parameters	Value
Temperature	24.1°C
Relative Humidity	29%
Atmospheric Pressure	1012.9mb.

13. Summary

The following EMC tests were performed and the results are shown below:

Test Description	Requirements	Test Methods	S/N	Results
Powerline Conducted Emissions Test (AC Mains)	FCC 15C	ANSI C63.10: 2013	250615902	Conforms
Frequency Stability	FCC 15C	ANSI C63.10: 2013	250615902	Conforms
Radiated Emissions	FCC 15C	ANSI C63.10: 2013	250615902	Conforms
Occupied Bandwidth Measurements	FCC 15C	ANSI C63.10: 2013	250615902	Conforms

14. Sample Calculations

For Powerline Conducted Emissions:

The resultant voltage level (VL) is a summation in decibels (dB) of the receiver meter reading (MTR) and the cable loss factor (CF).

$$\text{Formula 1: } VL \text{ (dBuV)} = MTR \text{ (dBuV)} + CF \text{ (dB)}.$$

For Radiated Emissions:

The resultant field strength (FS) is a summation in decibels (dB) of the receiver meter reading (MTR), the antenna correction factor (AF), and the cable loss factor (CF). If an external preamplifier is used, the total is reduced by its gain (-PA). If a distance correction (DC) is required, it is added to the total.

$$\text{Formula 1: FS (dBuV/m)} = \text{MTR (dBuV)} + \text{AF (dB/m)} + \text{CF (dB)} + (- \text{PA (dB)}) + \text{DC (dB)}$$

To convert the Field Strength dBuV/m term to uV/m, the dBuV/m is first divided by 20. The Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in uV/m terms.

$$\text{Formula 2: FS (uV/m)} = \text{AntiLog} [(\text{FS (dBuV/m)})/20]$$

15. Statement of Conformity

The Elkay Manufacturing Company Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station, Model No. LZWS-LRPBM28K-W1, Serial No. 250615902, did fully conform to the selected requirements of FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225.

16. Certification

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.225 test specification. The data presented in this test report pertains to the EUT as provided by the customer on the test date specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

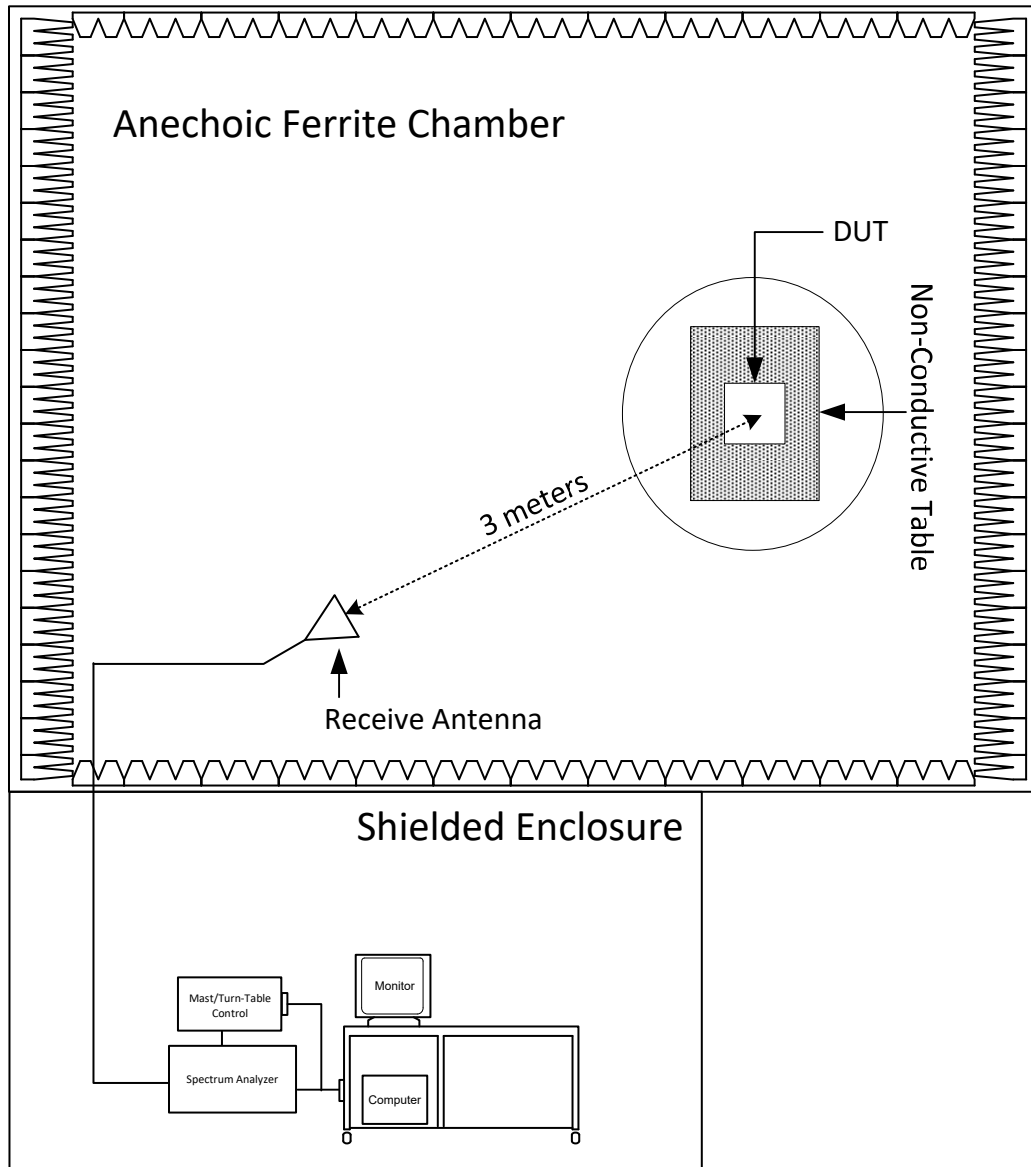
17. Photographs of EUT



Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station (Top),
Chiller (Bottom)



18. Block Diagram of Test Setup



Radiated Measurements Test Setup

19. Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
CDM5	LAB COMPUTER	ELITE		---	---	N/A	
GRB0	1MHZ, LISN SIGNAL CHECKER	ELITE	LISNCHKR1M	1	1MHZ	2/11/2025	2/11/2027
NLS0	24" ACTIVE LOOP ANTENNA	EMCO	6502	00089979	10KHZ-30MHZ	2/13/2024	2/13/2026
NSDS1	UNIVERSAL SPHERICAL DIPOLE SOURCE	AET	USDS-H	AET-1116		NOTE 1	
NTA2	BILOG ANTENNA	TESEQ	6112D	28040	25-2000MHz	6/21/2024	6/21/2026
PLF1	CISPR16 50UH LISN	ELITE	CISPR16/70A	001	150kHz-30MHz	3/28/2025	3/28/2026
PLF3	CISPR16 50UH LISN	ELITE	CISPR16/70A	003	150kHz-30MHz	3/28/2025	3/28/2026
R23P	ROOM 23			001	---	CNR	
R29F	3M ANECHOIC CHAMBER NSA	EMC TEST SYSTEMS	3M ANECHOIC		30MHZ-18GHZ	6/1/2025	6/1/2027
RBE2	EMI ANALYZER	ROHDE & SCHWARZ	ESU26	100160	20Hz-26GHz	12/7/2024	12/7/2025
RBG2	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101591	2HZ-44GHZ	6/16/2024	7/16/2025
SES0	24VDC POWER SUPPLY	P-TRANS	FS-32024-1M	001	18-27VDC	NOTE 1	
T1E16	10DB 25W ATTENUATOR	WEINSCHEL	46-10-43	CM5685	DC-18GHz	2/13/2025	2/13/2027
VBR8	COMMERCIAL CONDUCTED EMISSIONS.EXE	ELITE				N/A	
VBV2	COMMERCIAL RADIATED EMISSIONS.EXE	ELITE		---	---	N/A	
WKA1	SOFTWARE, UNIVERSAL RCV EMI	ELITE	UNIV_RCV_EMI	1	---	I/O	
XLTH	50Ω Termination	JFW	50T-052	---	DC-2GHz, 5W	4/11/2025	4/11/2027

N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

20. Powerline Conducted Emissions Test (AC Mains)

Test Information	
Manufacturer	Elkay Manufacturing Company
Product	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station
Model	LZWS-LRPBM28K-W1
Serial No	250615902
Mode	Tx
Test Date	June 10, 2025

Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Shielded Enclosure
Test site used	R23P
Note	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Conducted disturbance (mains port) (150 kHz – 30 MHz)	2.7

Requirements		
All radio frequency voltages on the power lines for any frequency or frequencies of an intentional radiator shall not exceed the limits in the following table:		
Frequency of Emission (MHz)	Conducted Limits (dB μ V)	
	Quasi-peak	Average
0.15-05	66 to 56*	56-46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

Procedures

The interference on each power lead of the EUT was measured by connecting the measuring equipment to the appropriate meter terminal of the Line Impedance Stabilization Network (LISN). The meter terminal of the LISN not under test was terminated with 50 ohms.

- 1) The EUT was operated in the Tx mode.
- 2) Measurements were first made on the 120V 60Hz high line.
- 3) The frequency range from 150 kHz to 30 MHz was broken up into smaller frequency sub-bands.
- 4) Conducted emissions measurements were taken on the first frequency sub-band using a peak detector with a 9kHz resolution bandwidth.
- 5) The data thus obtained was then searched by the computer for the highest levels. Any emissions levels that were within 10dB of the average limit were then measured again using both a quasi-peak detector and an average detector. (If no peak readings were within 10dB of the average limit, quasi-peak and average readings were taken on the highest emissions levels measured during the peak detector scan.)
- 6) Steps (4) and (5) were repeated for the remainder of the frequency sub-bands until the entire frequency range from 150kHz to 30MHz was investigated. The peak trace was automatically plotted. The plot also shows quasi-peak and average readings that were taken on discrete frequencies. A table showing the quasi-peak and average readings was also generated. This tabular data compares the quasi-peak and average conducted emissions to the applicable conducted emissions limits.
- 7) Steps (3) through (6) were repeated on the 120V 60Hz neutral line.



Test Setup for Powerline Conducted Emissions (AC Mains)



Test Setup for Powerline Conducted Emissions (AC Mains)

FCC Part 15 Subpart B Conducted Emissions Test

Significant Emissions Data

VBR8 12/06/2024

Manufacturer : Elkay Manufacturing Company
 Model : LZWS-LRPBM28K-W1
 DUT Revision : NA
 Serial Number : 250615902
 DUT Mode : Tx
 Line Tested : Line
 Scan Step Time [ms] : 30
 Meas. Threshold [dB] : -10
 Notes : None
 Test Engineer : E. Casas
 RBW : 9 kHz
 Limit : Class B
 Test Date : Jun 10, 2025 11:40:44 AM
 Data Filter : Up to 80 maximum levels detected with 6 dB level excursion threshold over 10 dB margin below limit

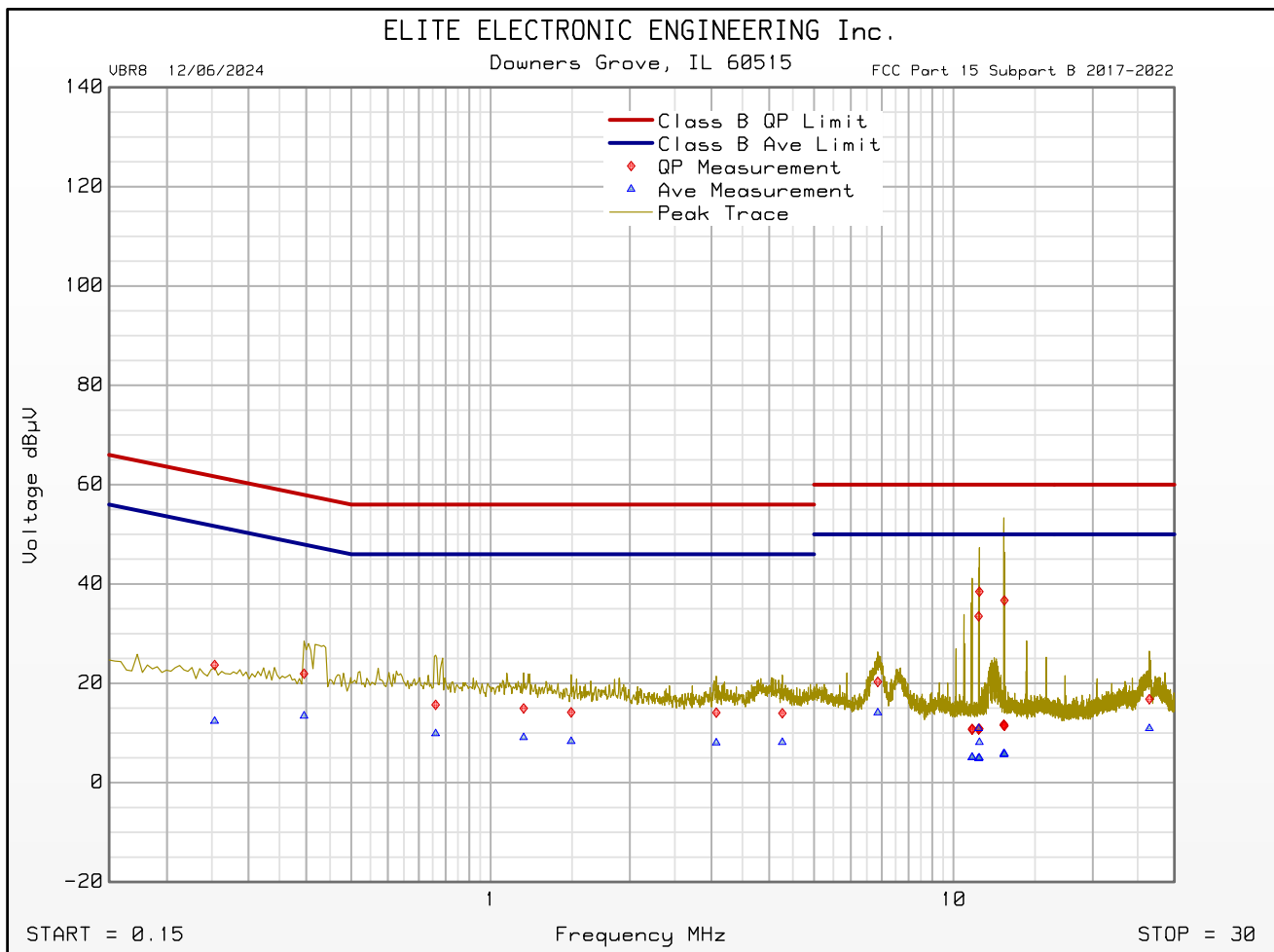
Freq MHz	Quasi-peak Level dBμV	Quasi-peak Limit dBμV	Excessive Quasi-peak Emissions	Average Level dBμV	Average Limit dBμV	Excessive Average Emissions
0.254	23.7	61.6		12.4	51.6	
0.396	21.9	57.9		13.4	47.9	
0.761	15.7	56.0		9.9	46.0	
1.179	15.0	56.0		9.1	46.0	
1.494	14.2	56.0		8.3	46.0	
3.074	14.1	56.0		8.0	46.0	
4.268	14.0	56.0		8.1	46.0	
6.863	20.3	60.0		14.1	50.0	
11.377	38.5	60.0		8.1	50.0	
26.496	16.8	60.0		10.9	50.0	

FCC Part 15 Subpart B Conducted Emissions Test

Cumulative Data

VBR8 12/06/2024

Manufacturer : Elkay Manufacturing Company
Model : LZWS-LRPBM28K-W1
DUT Revision : NA
Serial Number : 250615902
DUT Mode : Tx
Line Tested : Line
Scan Step Time [ms] : 30
Meas. Threshold [dB] : -10
Notes : None
Test Engineer : E. Casas
RBW : 9 kHz
Limit : Class B
Test Date : Jun 10, 2025 11:40:44 AM



Emissions Meet QP Limit
Emissions Meet Ave Limit

FCC Part 15 Subpart B Conducted Emissions Test

Significant Emissions Data

VBR8 12/06/2024

Manufacturer : Elkay Manufacturing Company
 Model : LZWS-LRPBM28K-W1
 DUT Revision : NA
 Serial Number : 250615902
 DUT Mode : Tx
 Line Tested : Neutral
 Scan Step Time [ms] : 30
 Meas. Threshold [dB] : -10
 Notes : None
 Test Engineer : E. Casas
 RBW : 9 kHz
 Limit : Class B
 Test Date : Jun 10, 2025 11:49:34 AM
 Data Filter : Up to 80 maximum levels detected with 6 dB level excursion threshold over 10 dB margin below limit

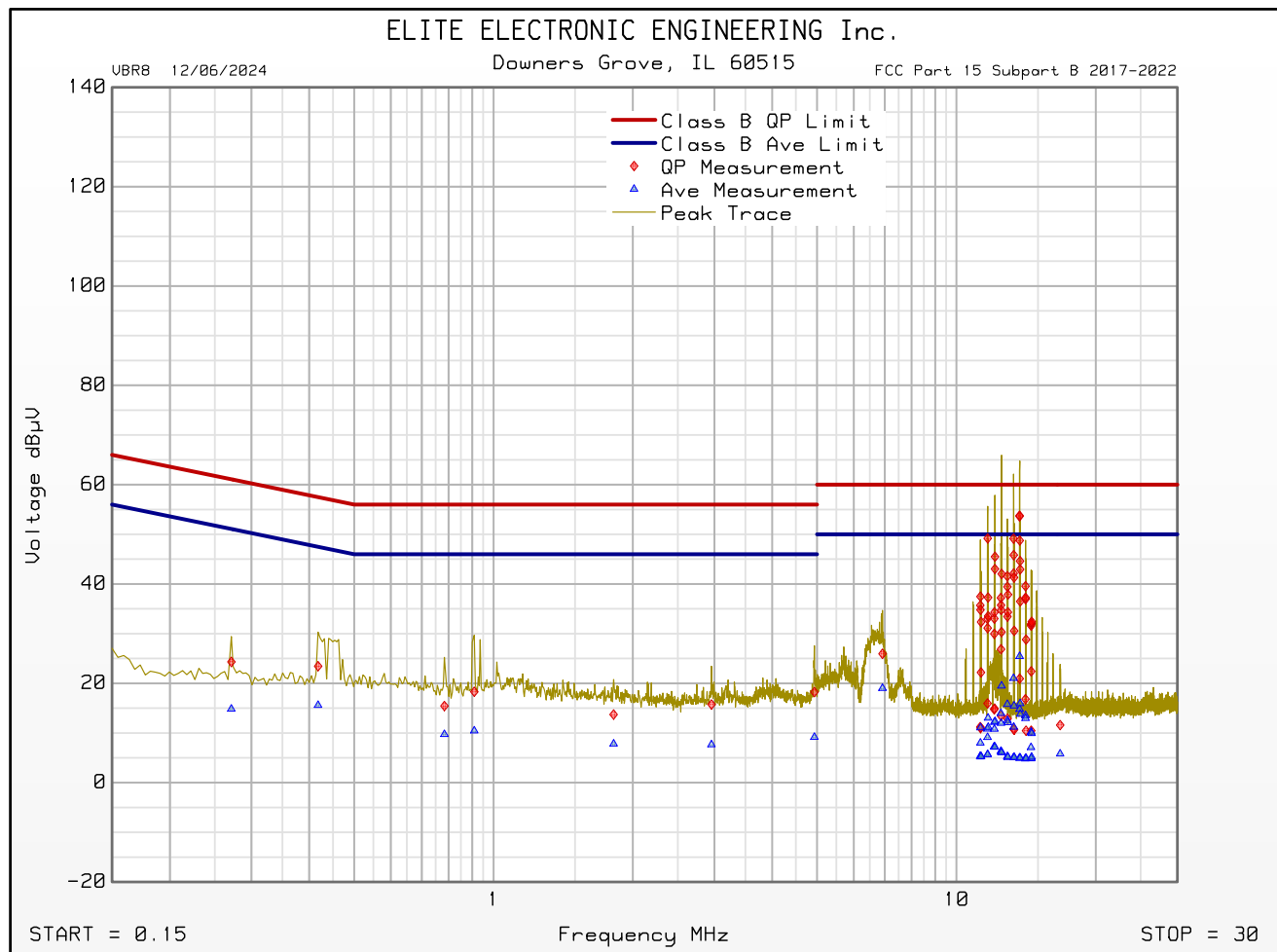
Freq MHz	Quasi-peak Level dBμV	Quasi-peak Limit dBμV	Excessive Quasi-peak Emissions	Average Level dBμV	Average Limit dBμV	Excessive Average Emissions
0.272	24.3	61.1		14.8	51.1	
0.418	23.4	57.5		15.6	47.5	
0.784	15.4	56.0		9.7	46.0	
0.909	18.3	56.0		10.5	46.0	
1.818	13.7	56.0		7.8	46.0	
2.957	15.7	56.0		7.7	46.0	
4.934	18.2	56.0		9.2	46.0	
6.922	25.9	60.0		19.0	50.0	
13.690	53.7	60.0		25.4	50.0	
16.749	11.6	60.0		5.8	50.0	

FCC Part 15 Subpart B Conducted Emissions Test

Cumulative Data

VBR8 12/06/2024

Manufacturer : Elkay Manufacturing Company
Model : LZWS-LRPBM28K-W1
DUT Revision : NA
Serial Number : 250615902
DUT Mode : Tx
Line Tested : Neutral
Scan Step Time [ms] : 30
Meas. Threshold [dB] : -10
Notes : None
Test Engineer : E. Casas
RBW : 9 kHz
Limit : Class B
Test Date : Jun 10, 2025 11:49:34 AM



Emissions Meet QP Limit
Emissions Meet Ave Limit

21. Frequency Stability

Test Information	
Manufacturer	Elkay Manufacturing Company
Product	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station
Model	LZWS-LRPBM28K-W1
Serial No	250615902
Mode	Tx
Test Date	June 12, 2025

Test Setup Details	
Type of Test Site	Temperature Chamber
Test site used	ENVE55
Type of Antennas Used	Loop (or equivalent)
Notes	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

Requirements
Per §15.225(e), the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20°C to $+50^{\circ}\text{C}$ at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C .

Procedures
1) The EUT was placed in a temperature chamber set to normal temperature (21°C). 2) The temperature chamber was then set to -20°C and once the temperature was stabilized, the EUT was allowed to soak for 30 minutes. 3) After soaking, the EUT was set in the Tx mode and the frequency was noted at nominal voltage. 4) Steps (2) and (3) were repeated for every $+10^{\circ}\text{C}$ increment until $+50^{\circ}\text{C}$. 5) Step (3) was repeated at 20°C for nominal, 85%, and 115% voltage.



Test Setup for Frequency Stability



Test Setup for Frequency Stability

Test Details	
Manufacturer	Elkay Manufacturing Company
Model	LZWS-LRPBM28K-W1
S/N	250615902
Mode	Tx
Carrier Frequency	13.5599MHz
Parameters	$\pm 0.01\%$
Notes	Nominal Voltage: 120VAC 85% of Nominal Voltage: 102VAC 115% of Nominal Voltage: 138VAC

Temperature °C	Input Voltage	Nominal Frequency MHz	Measured Frequency MHz	Frequency Variation in %			Pass/Fail
				Lower Limit %	Measured Variation %	Upper Limit %	
-20	120	13.559935	13.559642	-0.01	-0.00216	0.01	Pass
-10	120	13.559935	13.559837	-0.01	-0.00072	0.01	Pass
0	120	13.559935	13.560259	-0.01	0.00239	0.01	Pass
+10	120	13.559935	13.560227	-0.01	0.00215	0.01	Pass
+20	120	13.559935	13.559935	-0.01	0.00000	0.01	Pass
+20	102	13.559935	13.55974	-0.01	-0.00144	0.01	Pass
+20	138	13.559935	13.560194	-0.01	0.00191	0.01	Pass
+30	120	13.559935	13.560227	-0.01	0.00215	0.01	Pass
+40	120	13.559935	13.559772	-0.01	-0.00120	0.01	Pass
+50	120	13.559935	13.55961	-0.01	-0.00240	0.01	Pass

22. Radiated Emissions

Test Information	
Manufacturer	Elkay Manufacturing Company
Product	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station
Model	LZWS-LRPBM28K-W1
Serial No	250615902
Mode	Tx
Test Date	June 24, 2025

Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Test site used	R29F
Notes	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

Requirements		
The EUT must comply with the requirements of FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.209.		
Carrier Frequency (MHz)	Field Strength of Carrier (μV/m)	Field Strength of Spurious Emissions (μV/m)
13.553-13.567	15,848	
0.009-0.490		2400/f(kHz)
0.490-1.705		24000/f(kHz)
1.705-30.0		30
30-88		100
88-216		150
216-960		200
Above 960		500

Procedures

All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2014 for site attenuation.

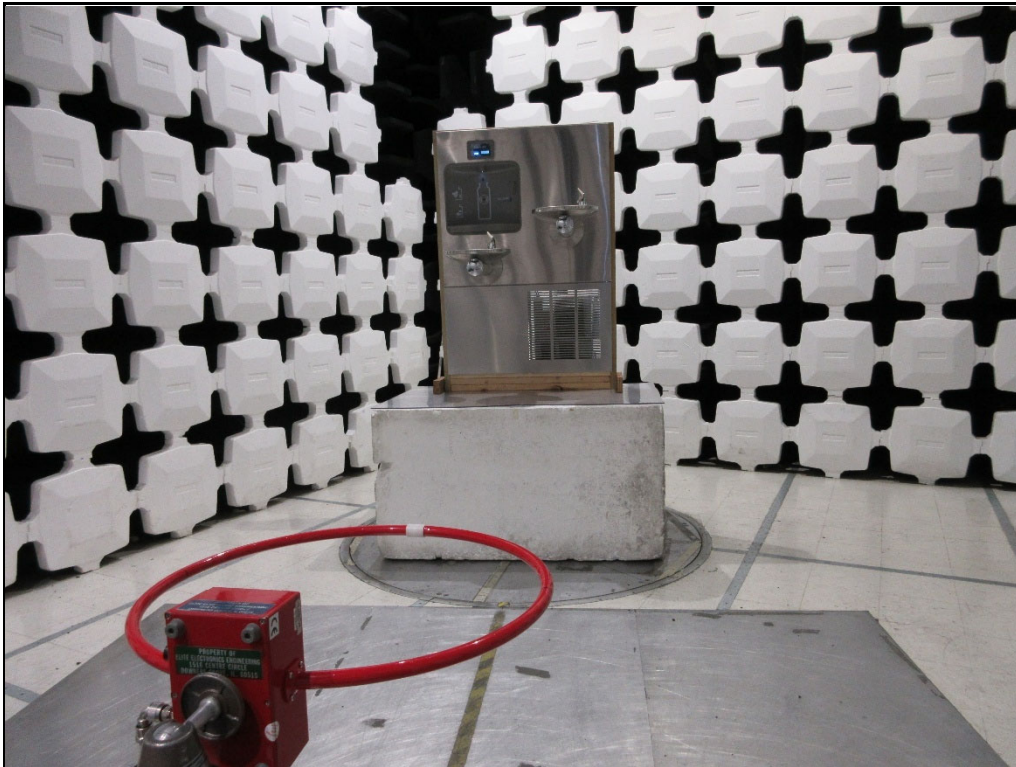
The shielded enclosure prevents emissions from other sources, such as radio and TV stations, from interfering with the measurements. All power lines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

A preliminary radiated emissions test was performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3-meter distance from the EUT. The entire frequency range from 9kHz to 1GHz was investigated using a peak detector function.

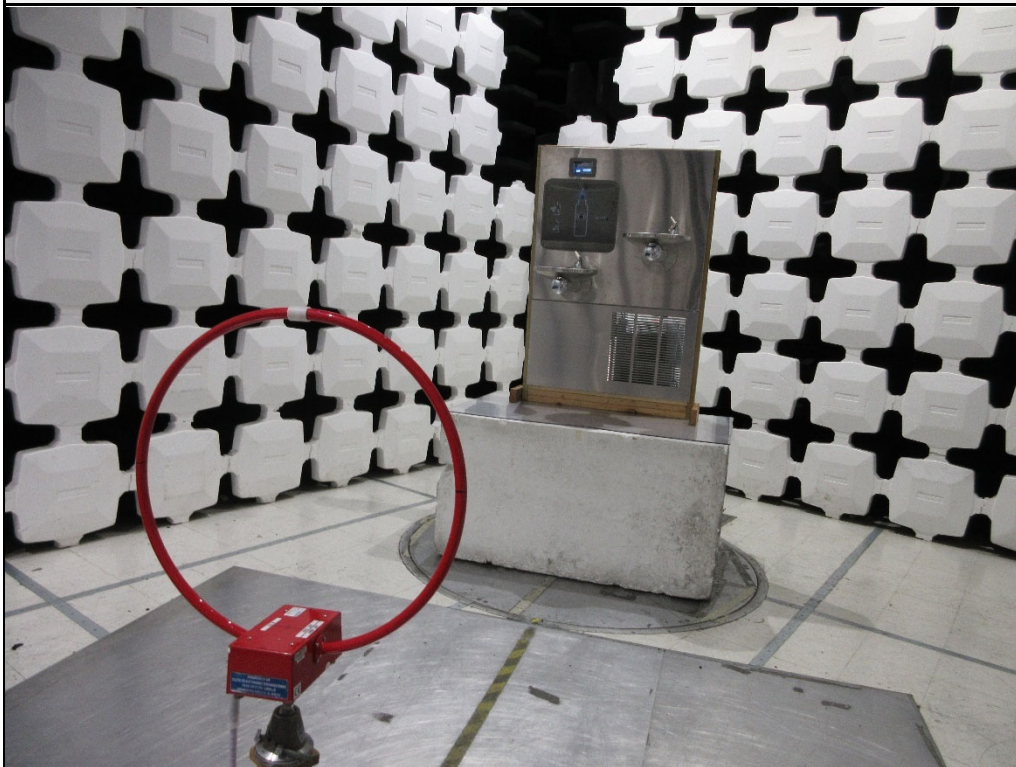
The final emission tests were then manually performed over the frequency range of 9kHz to 1GHz.

- 1) Between 9kHz and 30MHz, a loop antenna was used as the pick-up device. The EUT was centered on the turntable.
- 2) A peak detector with a resolution bandwidth of 10kHz was used on the spectrum analyzer.
- 3) To ensure that maximum or worst case, emission levels were measured, the following steps were taken:
 - i) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - ii) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - iii) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.

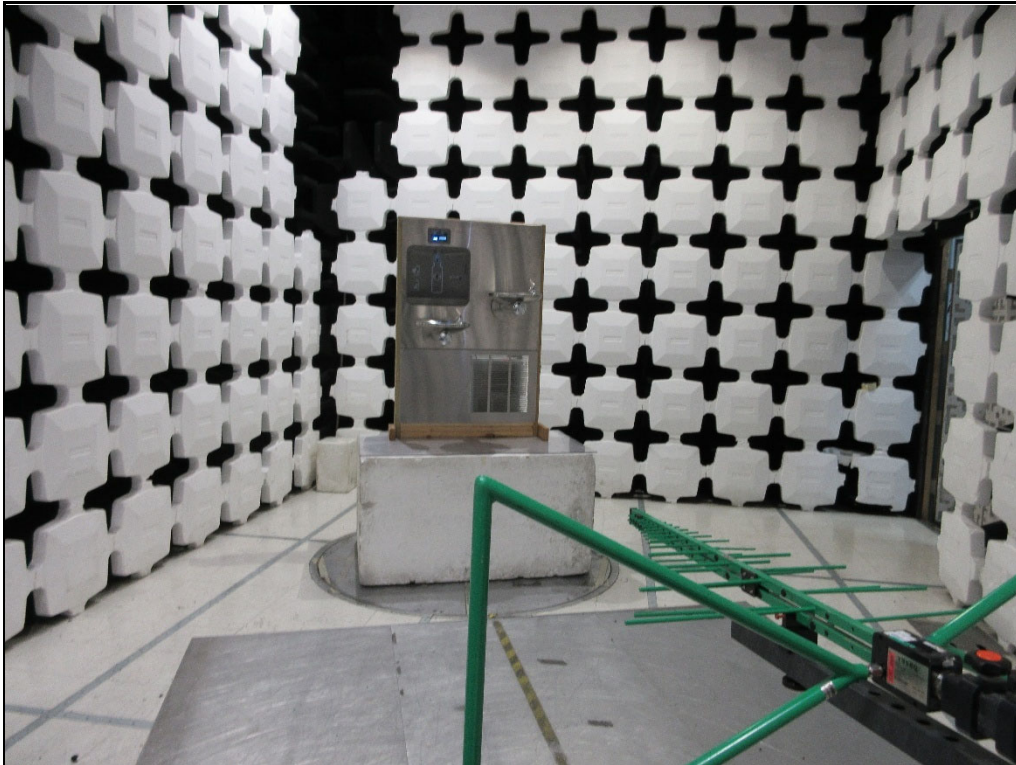
In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead, the EUT was rotated through all axis to ensure the maximum readings were recorded for the EUT.



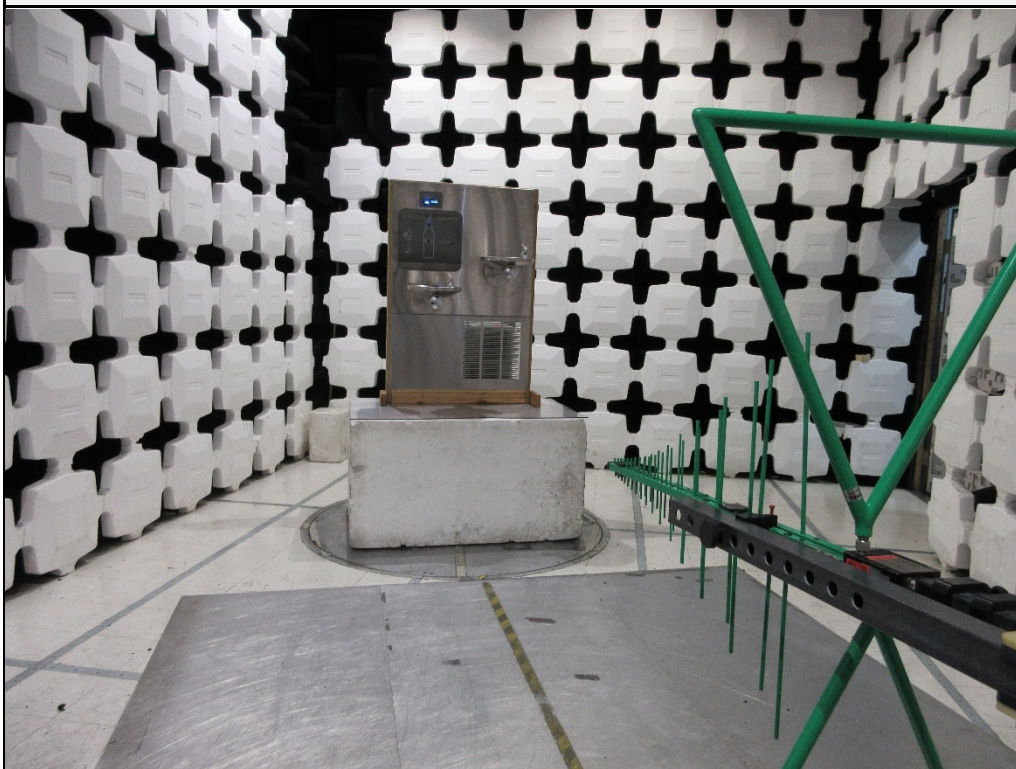
Test Setup for Spurious Radiated Emissions, 9kHz - 30MHz – Antenna Polarization Horizontal



Test Setup for Spurious Radiated Emissions, 9kHz - 30MHz – Antenna Polarization Vertical



Test Setup for Spurious Radiated Emissions, Above 30-1000MHz – Antenna Polarization Horizontal



Test Setup for Spurious Radiated Emissions, Above 30-1000MHz – Antenna Polarization Vertical

Test Details	
Manufacturer	Elkay Manufacturing Company
Model	LZWS-LRPBM28K-W1
S/N	250615902
Mode	Tx
Carrier Frequency	13.56MHz
Requirements	Field Strength of Carrier Limit = 15848uV/m
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Dist. Corr. (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Specified Test Distance (meters)	Margin (dB)
13.560	H	48.8		0.4	10.4	-40.0	19.5	9.4	15848.0	30.0	-64.5
13.560	V	58.6		0.4	10.4	-40.0	29.3	29.1	15848.0	30.0	-54.7
27.120	H	17.4		0.6	8.4	-40.0	-13.6	0.2	30.0	30.0	-43.2
27.120	V	17.0		0.6	8.4	-40.0	-14.0	0.2	30.0	30.0	-43.6
40.680	H	6.1		0.8	18.6	0.0	25.4	18.7	100.0	3.0	-14.6
40.680	V	11.3		0.8	18.6	0.0	30.7	34.1	100.0	3.0	-9.3
54.240	H	2.4	*	0.9	13.2	0.0	16.5	6.7	100.0	3.0	-23.5
54.240	V	3.1	*	0.9	13.2	0.0	17.2	7.2	100.0	3.0	-22.8
67.800	H	14.9		1.0	12.3	0.0	28.2	25.7	100.0	3.0	-11.8
67.800	V	13.6		1.0	12.3	0.0	26.9	22.1	100.0	3.0	-13.1
81.360	H	2.0	*	1.1	13.3	0.0	16.3	6.6	100.0	3.0	-23.7
81.360	V	4.6		1.1	13.3	0.0	18.9	8.8	100.0	3.0	-21.1
94.920	H	2.5	*	1.1	16.3	0.0	19.9	9.9	150.0	3.0	-23.6
94.920	V	5.9		1.1	16.3	0.0	23.3	14.6	150.0	3.0	-20.2
108.480	H	3.8		1.2	18.0	0.0	23.0	14.2	150.0	3.0	-20.5
108.480	V	9.7		1.2	18.0	0.0	28.9	27.9	150.0	3.0	-14.6
122.040	H	3.8		1.2	18.4	0.0	23.4	14.9	150.0	3.0	-20.1
122.040	V	4.1		1.2	18.4	0.0	23.7	15.4	150.0	3.0	-19.8
135.600	H	3.4		1.3	17.6	0.0	22.4	13.1	150.0	3.0	-21.2
135.600	V	7.4		1.3	17.6	0.0	26.4	20.8	150.0	3.0	-17.2

23. Occupied Bandwidth Measurements

Test Information	
Manufacturer	Elkay Manufacturing Company
Product	Swirlflo Refrigerated Wall-Mount Dual Water Fountain/Bottle Filling Station
Model	LZWS-LRPBM28K-W1
Serial No	250615902
Mode	Tx
Test Date	6/26/2025

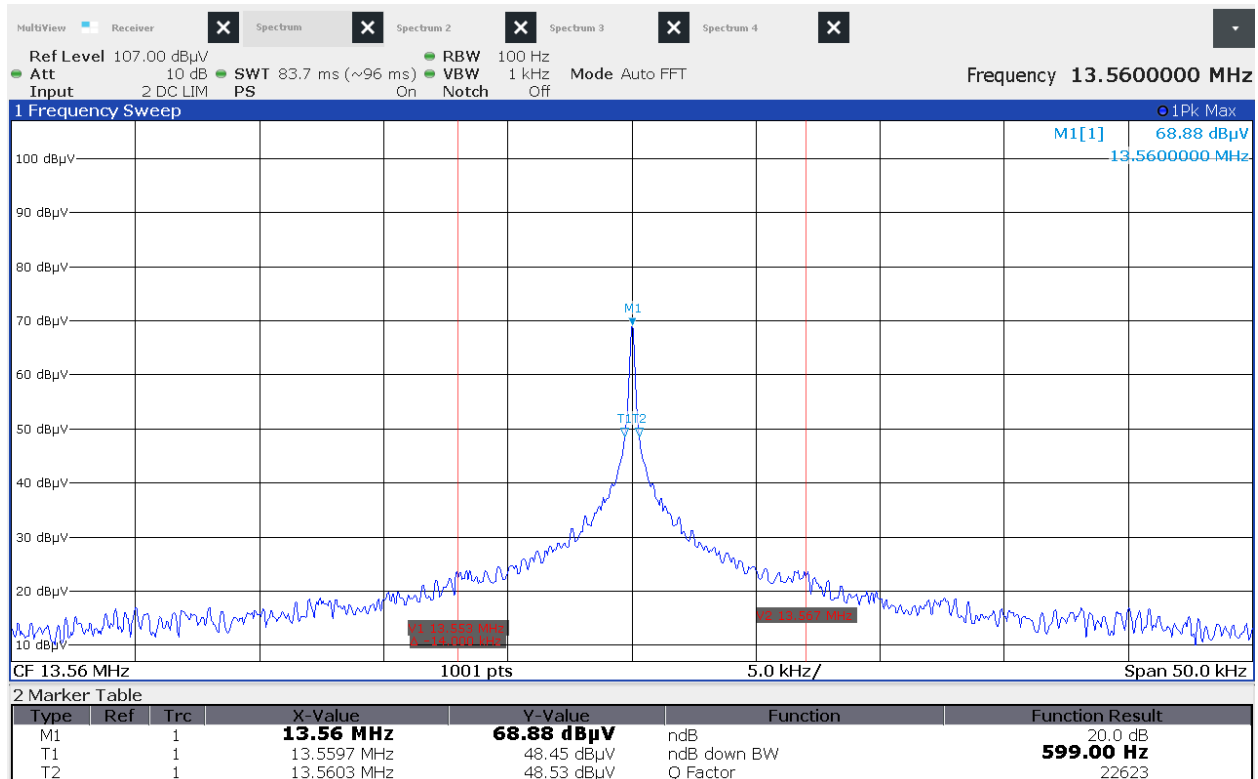
Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Test site used	Room 29
Notes	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

Requirements
FCC 15.215(c): Intentional radiators operating under the alternative provisions to the general emission limits must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Procedures
The EUT was centered on the turntable. The unit was set to transmit continuously. With an antenna positioned nearby, occupied bandwidth emissions were displayed on the spectrum analyzer. The resolution bandwidth was set to 100Hz and span was set to 50kHz. A screen capture was taken of the frequency spectrum near the carrier using a screen dump function on the spectrum analyzer.

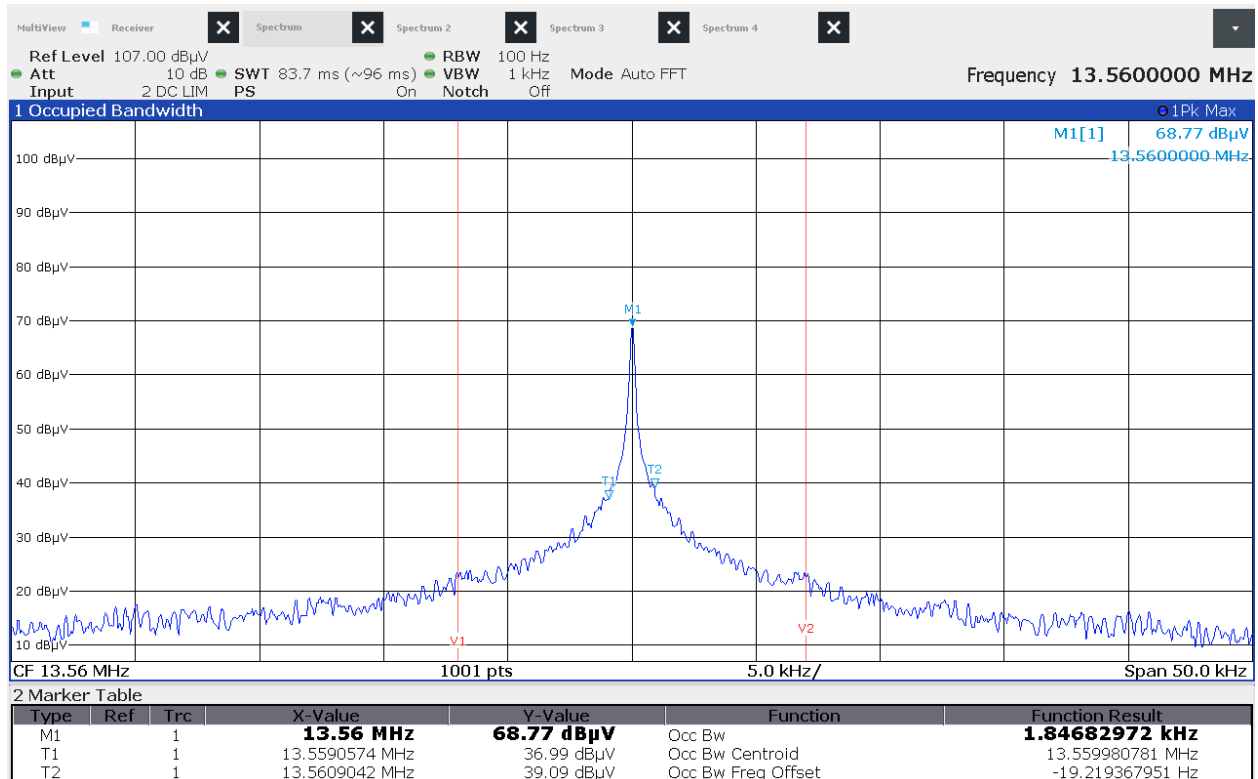
Test Details	
Manufacturer	Elkay Manufacturing Company
Model	LZWS-LRPBM28K-W1
S/N	250615902
Mode	Tx
Carrier Frequency	13.56MHz
Parameters	20dB BW = 599Hz
Notes	None



Manufacturer : Elkay Manufacturing Company
Model Number : LZWS-LRPBM28K-W1
Serial Number : 250615902
Mode : 13.56MHz Tx
Parameters : Occupied Bandwidth
Date : 6/26/2025 2:45:10 PM
Notes : None

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Elkay Manufacturing Company
Model	LZWS-LRPBM28K-W1
S/N	250615902
Mode	Tx
Carrier Frequency	13.56MHz
Parameters	99% BW = 1.85kHz
Notes	None



Manufacturer : Elkay Manufacturing Company
Model Number : LZWS-LRPBM28K-W1
Serial Number : 250615902
Mode : 13.56MHz Tx
Parameters : Occupied Bandwidth
Date : 6/26/2025 2:49:02 PM
Notes : None

TRACE1 : Function plot of Max Hold Peak

24. Scope of Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: August 31, 2025

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:

Transient Immunity
(Max Voltage 60V/Max current 100A)

Electrostatic Discharge (ESD)
(Up to +/-25kV)

Conducted Emissions**Test Method(s)¹:**

ISO 7637-2 (including emissions); ISO 7637-3;
ISO 16750-2:2012, Sections 4.6.3 and 4.6.4;
CS-11979, Section 6.4; CS.00054, Section 5.9;
EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
GMW 3097, Section 3.5; SAE J1113-11; SAE J1113-12;
ECE Regulation 10.06 Annex 10

ISO 10605 (2001, 2008);
CS-11979 Section 7.0; CS.00054, Section 5.10;
EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
GMW 3097 Section 3.6

CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
CISPR 25 (2016), Sections 6.3 and 6.4;
CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2;
GMW 3097, Section 3.3.2;
EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421,
CE 430, CE440)

(A2LA Cert. No. 1786.01) Revised 05/08/2025



Page 1 of 9

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:
Test Method(s)¹:

Radiated Emissions Anechoic
(Up to 6GHz)

CISPR 25 (2002, 2008), Section 6.4;
CISPR 25 (2016), Section 6.5;
CS-11979, Section 5.3; CS.00054, Section 5.6.3;
GMW 3097, Section 3.3.1;
EMC-CS-2009.1 (RE 310); FMC1278 (RE310, RE320);

Vehicle Radiated Emissions

CISPR 12; CISPR 36; ICES-002;
ECE Regulation 10.06 Annex 4;
ECE Regulation 10.06 Annex 5

Bulk Current Injection (BCI)
(1 to 400MHz 500mA)

ISO 11452-4; CS-11979, Section 6.1; CS.00054, Section 5.8.1;
GMW 3097, Section 3.4.1; SAE J1113-4;
EMC-CS-2009.1 (RI112); FMC1278 (RI112);
ECE Regulation 10.06 Annex 9

Radiated Immunity Anechoic
(Up to 6GHz and 200V/m)
(Including Radar Pulse 600V/m)

ISO 11452-2;
CS-11979, Section 6.2; CS.00054, Section 5.8.2;
GMW 3097, Section 3.4.2;
EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21;
ECE Regulation 10.06 Annex 9

Radiated Immunity Magnetic Field

ISO 11452-8; FMC 1278 (RI140)

Radiated Immunity Reverb
(360MHz to 6GHz and 100V/m)

ISO/IEC 61000-4-21; GMW 3097, Section 3.4.3;
EMC-CS-2009.1 (RI114); FMC1278 (RI114);
ISO 11452-11

Radiated Immunity
(Portable Transmitters)
(Up to 6GHz and 20W)

ISO 11452-9;
EMC-CS-2009.1 (RI115); FMC1278 (RI115);
GMW 3097, Sec 3.4.4

Vehicle Radiated Immunity (ALSE)

ISO 11451-2; ECE Regulation 10.06 Annex 6

Vehicle Product Specific EMC Standards

EN 14982; EN ISO 13309; ISO 13766; EN 50498;
EC Regulation No. 2015/208; EN 55012

Electrical Loads

ISO 16750-2

Stripline

ISO 11452-5

Transverse Electromagnetic (TEM) Cell

ISO 11452-3

Test Technology:
Test Method(s)¹:
Emissions

Radiated and Conducted
(3m Semi-anechoic chamber,
up to 40 GHz)

47 CFR, FCC Part 15 B (using ANSI C63.4:2014);
47 CFR, FCC Part 18 (using FCC MP-5:1986);
ICES-001; ICES-003; ICES-005;
IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004);
IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010);
KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008);
CISPR 11; EN 55011; KS C 9811; CNS 13803 (1997, 2003);
CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1;
CISPR 16-2-1 (2008); CISPR 16-2-1; KS C 9814-1; KN 14-1;
IEC/CISPR 22 (1997);
EN 55022 (1998) + A1(2000);
EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006);
IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004);
AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz);
CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz);
CISPR 32; EN 55032; KS C 9832; KN 32;
ECE Regulation 10.06 Annex 7 (Broadband);
ECE Regulation 10.06 Annex 8 (Narrowband);
ECE Regulation 10.06 Annex 13 (Conducted);
ECE Regulation 10.06 Annex 14 (Conducted)

Cellular Radiated Spurious Emissions

ETSI TS 151 010-1 GSM; 3GPP TS 51.010-1, Sec 12;
ETSI TS 134 124 UMTS; 3GPP TS 34.124;
ETSI TS 136 124 LTE; E-UTRA; 3GPP TS 36.124

Current Harmonics

IEC 61000-3-2; IEC 61000-3-12;
EN 61000-3-2; KN 61000-3-2;
KS C 9610-3-2; ECE Regulation 10.06 Annex 11

Flicker and Fluctuations

IEC 61000-3-3; IEC 61000-3-11;
EN 61000-3-3; KN 61000-3-3;
KS C 9610-3-3; ECE Regulation 10.06 Annex 12

Immunity

Electrostatic Discharge

IEC 61000-4-2, Ed. 1.2 (2001);
IEC 61000-4-2 (1995) + A1(1998) + A2(2000);
EN 61000-4-2 (1995); EN 61000-4-2 (2009-05);
KN 61000-4-2 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;
KS C 9610-4-2; IEEE C37.90.3 2001

Radiated Immunity

IEC 61000-4-3 (1995) + A1(1998) + A2(2000);
IEC 61000-4-3, Ed. 3.0 (2006-02);
IEC 61000-4-3, Ed. 3.2 (2010);
KN 61000-4-3 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;
KS C 9610-4-3; IEEE C37.90.2 2004

Test Technology:
Test Method(s)¹:
Immunity (cont'd)

Electrical Fast Transient/Burst

IEC 61000-4-4, Ed. 2.0 (2004-07);
IEC 61000-4-4, Ed. 2.1 (2011);
IEC 61000-4-4 (1995) + A1(2000) + A2(2001);
KN 61000-4-4 (2008-5);
RRL Notice No. 2008-5 (May 20, 2008);
IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4;
KS C 9610-4-4; ECE Regulation 10.06 Annex 15

Surge

IEC 61000-4-5 (1995) + A1(2000);
IEC 61000-4-5, Ed 1.1 (2005-11);
EN 61000-4-5 (1995) + A1(2001);
KN 61000-4-5 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;
KS C 9610-4-5;
IEEE C37.90.1 2012; IEEE STD C62.41.2 2002;
ECE Regulation 10.06 Annex 16

Conducted Immunity

IEC 61000-4-6 (1996) + A1(2000);
IEC 61000-4-6, Ed 2.0 (2006-05);
IEC 61000-4-6 Ed. 3.0 (2008);
KN 61000-4-6 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6;
EN 61000-4-6; KN 61000-4-6; KS C 9610-4-6

Power Frequency Magnetic Field
Immunity (*Down to 3 A/m*)

IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009);
EN 61000-4-8 (1994) + A1(2000);
KN 61000-4-8 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8; KS C 9610-4-8

Voltage Dips, Short Interrupts, and Line
Voltage Variations

IEC 61000-4-11, Ed. 2 (2004-03);
KN 61000-4-11 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11;
KS C 9610-4-11

Ring Wave

IEC 61000-4-12, Ed. 2 (2006-09);
EN 61000-4-12:2006;
IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12;
IEEE STD C62.41.2 2002

Test Technology:

Generic and Product Specific EMC Standards

Test Method(s)¹:

IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1;
KS C 9610-6-1; IEC/EN 61000-6-2; AS/NZS 61000-6-2;
KN 61000-6-2; KS C 9610-6-2; IEC/EN 61000-6-3;
AS/NZS 61000-6-3; KN 61000-6-3; KS C 9610-6-3;
IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4;
KS C 9610-6-4; EN 50130-4; EN 61326-1; EN 50121-3-2;
EN 12895; EN 50270; EN 50491-1; EN 50491-2; EN 50491-3;
EN 55015; EN 60730-1; EN 60945; IEC 60533;
EN 61326-2-6; EN 61800-3; IEC/CISPR 14-2; EN 55014-2;
AS/NZS CISPR 14.2; KN 14-2; KS C 9814-2;
IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24;
IEC/CISPR 35; AS/NZS CISPR 35; EN 55035; KN 35;
KS C 9835; IEC 60601-1-2; JIS T0601-1-2

TxRx EMC Requirements

EN 301 489-1; EN 301 489-3; EN 301 489-9;
EN 301 489-17; EN 301 489-19; EN 301 489-20

European Radio Test Standards

ETSI EN 300 086-1; ETSI EN 300 086-2;
ETSI EN 300 113-1; ETSI EN 300 113-2;
ETSI EN 300 220-1; ETSI EN 300 220-2;
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;
ETSI EN 300 330-1; ETSI EN 300 330-2;
ETSI EN 300 440-1; ETSI EN 300 440-2;
ETSI EN 300 422-1; ETSI EN 300 422-2;
ETSI EN 300 328; ETSI EN 301 893;
ETSI EN 301 511; ETSI EN 301 908-1;
ETSI EN 908-2; ETSI EN 908-13;
ETSI EN 303 413; ETSI EN 302 502;
EN 303 340; EN 303 345-2; EN 303 345-3; EN 303 345-4

Canadian Radio Tests

RSS-102 measurement (RF Exposure Evaluation);
RSS-102 measurement (Nerve Stimulation);
SPR-002; RSS-111; RSS-112; RSS-117; RSS-119; RSS-123;
RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133;
RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141;
RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192;
RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210;
RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222;
RSS-236; RSS-238; RSS-243; RSS-244; RSS-247; RSS-248;
RSS-251; RSS-252; RSS-287; RSS-288; RSS-310; RSS-GEN

Mexico Radio Tests

IFT-008-2015; NOM-208-SCFI-2016

Japan Radio Tests

Radio Law No. 131, Ordinance of MPT No. 37, 1981,
MIC Notification No. 88:2004, Table No. 22-11;
ARIB STD-T66, Regulation 18

Taiwan Radio Tests

LP-0002 (July 15, 2020)

Test Technology:
Test Method(s)¹:

Australia/New Zealand Radio Tests

AS/NZS 4268; Radiocommunications (Short Range Devices) Standard (2014)

Hong Kong Radio Tests

HKCA 1039 Issue 6;
HKCA 1042;
HKCA 1033 Issue 7;
HKCA 1061;
HKCA 1008;
HKCA 1043;
HKCA 1057;
HKCA 1073

Korean Radio Test Standards

KN 301 489-1; KN 301 489-3; KN 301 489-9;
KN 301 489-17; KN 301 489-52; KS X 3124; KS X 3125;
KS X 3130; KS X 3126; KS X 3129

Vietnam Radio Test Standards

QCVN 47:2015/BTTTT; QCVN 54:2020/BTTTT;
QCVN 55:2011/BTTTT; QCVN 65:2013/BTTTT;
QCVN 73:2013/BTTTT; QCVN 74:2020/BTTTT;
QCVN 112:2017/BTTTT; QCVN 117:2020/BTTTT

Vietnam EMC Test Standards

QCVN 18:2014/BTTTT; QCVN 86:2019/BTTTT;
QCVN 96:2015/BTTTT; QCVN 118:2018/BTTTT

*Unlicensed Radio Frequency Devices
(3 Meter Semi-Anechoic Room)*

47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H
(using ANSI C63.10:2013, ANSI C63.17:2013 and
FCC KDB 905462 D02 (v02))

Licensed Radio Service Equipment

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87,
90, 95, 96, 97, 101 (using ANSI/TIA-603-E,
TIA-102.CAAA-E, ANSI C63.26:2015)

OTA (Over the Air) Performance

GSM, GPRS, EGPRS
UMTS (W-CDMA)
LTE including CAT M1
A-GPS for UMTS/GSM
LTS A-GPS, A-GLONASS,
SIB8/SIB16
Large Device/Laptop/Tablet Testing
Integrated Device Testing
WiFi 802.11 a/b/g/n/a

CTIA Test Plan for Wireless Device Over-the-Air
Performance (Method for Measurement for Radiated Power
and Receiver Performance) V4.0;
CTIA Test Plan for RF Performance Evaluation of WiFi
Mobile Converged Devices V4.0

Test Technology:
Test Method(s)¹:
Electrical Measurements and Simulation
AC Voltage / Current

(1mV to 5kV) 60 Hz
(0.1V to 250V) up to 500 MHz
(1μA to 150A) 60 Hz

FAA AC 150/5345-10H;
FAA AC 150/5345-43J;
FAA AC 150/5345-44K;
FAA AC 150/5345-46E;
FAA AC 150/5345-47C;
FAA EB 67D

DC Voltage / Current

(1mV to 15 kV) / (1μA to 10A)

Power Factor / Efficiency / Crest Factor

(Power to 30kW)

Resistance

(1mΩ to 4000MΩ)

Surge

(Up to 10 kV / 5 kA) (Combination
Wave and Ring Wave)

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5 (February 1986)	40000
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	40000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unlicensed Personal Communication Systems Devices</u>		
Part 15D	ANSI C63.17:2013	40000
<u>U-NII without DFS Intentional Radiators</u>		
Part 15E	ANSI C63.10:2013	40000
<u>U-NII with DFS Intentional Radiators</u>		
Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u>		
Part 15F	ANSI C63.10:2013	40000
<u>BPL Intentional Radiators</u>		
Part 15G	ANSI C63.10:2013	40000
<u>White Space Device Intentional Radiators</u>		
Part 15H	ANSI C63.10:2013	40000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u>		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u>		
Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u>		
Part 96	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Maritime and Aviation Radio Services</u>		
Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
<u>Microwave and Millimeter Bands Radio Services</u>		
Parts 25, 30, 74, 90 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219	ANSI C63.26:2015	40000

² Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 15th day of August 2023.



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1786.01
Valid to August 31, 2025
Revised May 8, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.