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Report of Measurements
FCC Part 15, Subpart C, Section 15.225 and
FCC Part 15, Subpart C, Section 15.209, 15.207

On

Bathless Dissolution Tester
Model: Olera Select

FCC ID: 2BUPX-OLERA

Retlif Testing Laboratories FCC Registration Number: 518126

Customer Name: Distek, Inc.

Customer P.O.: 538524

Date of Report Revision: April 8, 2026

Test Report No: R-4109P-4, Rev. A

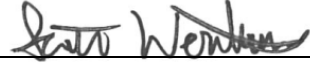
Test Start Date: December 22, 2025

Test Finish Date: January 12, 2026

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Richard J. Reitz
Director of Engineering
INARTE Electromagnetic Compatibility Engineer EMC-050739-E


Scott Wentworth
Branch Manager

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Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	March 19, 2026	Original Release
A	April 8, 2026	Global Change: • Report No. R-4109P-4 changed to R-4109P-4, Rev. A • Replaced Field Strength of Fundamental and Field Strength of Harmonics and Spurious test data



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

Technical Information

Report Number: R-4109P-4, Rev. A

Applicant: Distek, Inc.

Address: 121 North Center Drive
North Brunswick, NJ 08902

Manufacturer: Distek, Inc.

Manufacturer Address: 121 North Center Drive
North Brunswick, NJ 08902

FRN: 0037951969

Test Sample: Bathless Dissolution Tester

Model: Olera Select

FCC ID: 2BUPX-OLERA

Power Requirements: 120 VAC, 60 Hz

Frequency of Operation: 13.56 MHz

Equipment Class: DXX

Equipment Use: NFC Transmitter

Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Section 15.225

Test Procedure:

ANSI C63.4:2014
ANSI C63.10:2020

Test Facility:

Retlif Testing Laboratories
3131 Detwiler Road
Harleysville, PA 19438

MRA Designation Number: US2321

Retlif Testing Laboratories FCC Registration Number: 518126



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

Tests Performed

The test methods performed on the Bathless Dissolution Tester are shown in Table 1 below:

Table 1 – Test Methods

FCC Part 15, Subpart C	Test Method	Results
15.203	Antenna Requirements	Complied
15.225 (a)	Field Strength of Fundamental	Complied
15.225 (d) / 15.209	Field Strength of Harmonics and Spurious	Complied
15.225 (e)	Frequency Stability, Temperature Variation	Complied
15.225 (e)	Frequency Stability, Voltage Variations	Complied
15.207 (a)	Conducted Emissions	Complied

Model Series:

The below Models are included in the Olera Series and are electrically identical with respect to the NFC transmitter circuitry operating at 13.56 MHz.

- Olera Select
- Olera Plus



All test methods listed above are included in Retlif Testing Laboratories ANSI National Accreditation Board (ANAB), ISO/IEC 17025 Scope of Accreditation, Certificate Number: L2320.02.



Retlif Testing Laboratories

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General Test Information

Part 15.31 Measurement Standards

- Testing was performed using the procedures specified in ANSI C63.10:2020 in accordance with 15.31(a)(3).
- Testing was performed with the transmitter continuously transmitting at the selected frequency in accordance with 15.31(c).
- Field strength measurements were made on an Open Area Test Site in accordance with 15.31(d).
- Field strength measurements were made at a distance closer than specified in the regulations for frequencies below 30 MHz. The results were extrapolated to the specified test distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Sample Calculation:

- Extrapolation Factor (dB) = $40 \text{ Log } (D_{\text{Meas}} / D_{\text{Spec}})$

Where:

- D_{Meas} = Distance at which measurements were performed (10 Meters)
- D_{Spec} = Distance at which the limit is specified (30 Meters)
- Extrapolation Factor (dB) = $40 \text{ Log } (10 / 30)$
= $40 \text{ Log } (0.333)$
= $40 * -0.477$
= - 19.09

- The Device under test was positioned and adjusted to maximize the level of emissions in accordance with 15.31(g).
- All testing outlined herein was performed with the device under test operating at 120 VAC, 60 Hz.
- The test sample operates at 1 discrete frequency, 13.56 MHz. In accordance with 15.31(m), for a device with a frequency range over which the device operates of 1 MHz or less, radiated measurements were taken with the device operating on one frequency.

Part 15.33 Frequency range of radiated measurements

- The radio frequency spectrum was investigated from 9 kHz to the 10th harmonic of the highest fundamental frequency as specified in 15.33(a)(1). In addition, the digital aspects of the device were evaluated under 15.109, over the frequency range of 30 MHz to 1 GHz.

Part 15.35 Measurement detector function and bandwidths

- On frequencies below or equal to 1000 MHz, measurements were made utilizing a quasi-peak detector and associated bandwidths with the exception of measurements in the frequency bands of 9 to 90 kHz and 110 to 490 kHz in which an average detector was utilized.



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Requirements and Test Results

FCC Part 15.203, Antenna Requirements

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

- Results:
In accordance with Distek, Inc. the antenna is permanently installed.



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Requirements and Test Results

FCC Part 15.225 (a)(b)(c), Field Strength of Fundamental

(a) The field strength of any emission within the band 13.553 to 13.567 MHz shall not exceed 15,848 microvolts/meter at a distance of 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

- **Results:**

The field strength at 13.56 did not exceed the specified limits. The maximum Peak reading was 5.75 $\mu\text{V/m}$ at 30 meters.

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
3207	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 9 kHz - 30 MHz	1033	5/31/2026
8300	RETLIF	RPA	OPEN AREA TEST SITE, ATTENUATION, 3/10 Meter OATS	N/A	5/31/2026
8300C	UNKNOWN	3 METER CABLE	CABLE, COAXIAL, 3/10 METER	N/A	1/31/2026
8663	DIGI-SENSE	20250-30	HYGROMETER, 0 - 50 deg. c, 10 - 90 % RH	151210306	10/31/2026
8816	ROHDE & SCHWARZ	ESW26	RECEIVER, EMI, 1 Hz - 26 GHz	103087	9/30/2026



Retlif Testing Laboratories

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**15.225(a)
Fundamental Field Strength
Test Data**



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart B, Section 15.225(a), Fundamental Field Strength
Method:	ANSI C63.10, Section 6.4, Radiated Emission From Unlicensed <30 MHz
Job Number/Customer:	R- 4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model:	Aura Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Transmitting NFC at 13.56 MHz
Technician:	M. Nowak
Date(s):	12/22/25
Temperature:	4.0 °C
Relative Humidity:	40 %
Detector:	Peak
Test Distance:	10m

Notes:

Frequency	Antenna Orientation / Height	EUT Orientation	Meter Reading @3m	Correction Factor	Distance Correction	Corrected Reading @ 30m	Converted Reading @ 30m	Limit @ 30m
MHz		Degrees	dBuV	dB	dB	dBuV/m	uV/m	uV/m
13.5605	Perpendicular / 1.00	358.4	42.4	11.7	-40.0	14.1	5.07	15848
13.5605	Parallel / 1.00	358.4	43.5	11.7	-40.0	15.2	5.75	15848
13.5605	Parallel to Ground / 1.00	316.9	32.3	11.7	-40.0	4.0	1.59	15848



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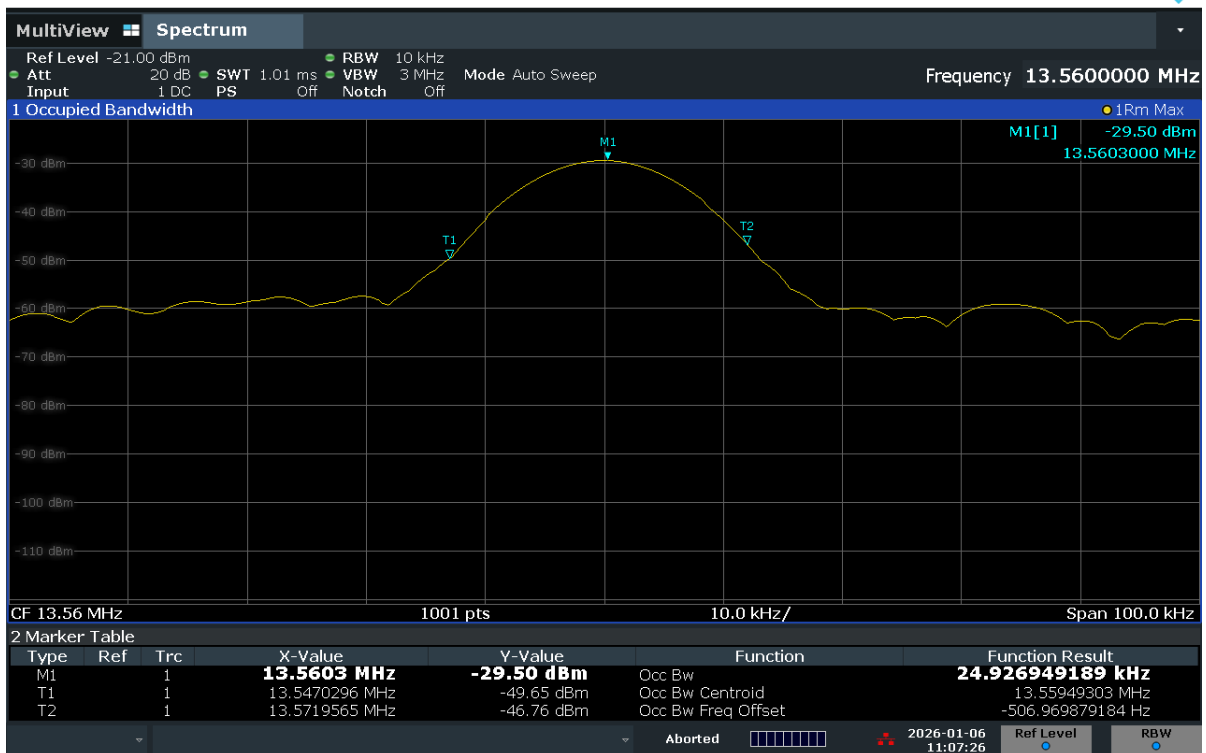
Frequency	Antenna Orientation / Height	EUT Orientation	Meter Reading @3m	Correction Factor	Distance Correction	Corrected Reading @ 30m	Converted Reading @ 30m	Limit @ 30m
MHz		Degrees	dBuV	dB	dB	dBuV/m	uV/m	uV/m
13.47	Perpendicular / 1.00	358.4	19.8	11.7	-40.0	-8.5	0.38	334
13.47	Parallel / 1.00	358.4	16.9	11.7	-40.0	-11.4	0.27	334
13.47	Parallel to Ground / 1.00	316.9	10.8	11.7	-40.0	-17.5	0.13	334
13.62	Perpendicular / 1.00	358.4	22.0	11.7	-40.0	-6.3	0.48	334
13.62	Parallel / 1.00	358.4	18.7	11.7	-40.0	-9.6	0.33	334
13.62	Parallel to Ground / 1.00	316.9	11.4	11.7	-40.0	-16.9	0.14	334

Frequency	Antenna Orientation / Height	EUT Orientation	Meter Reading @3m	Correction Factor	Distance Correction	Corrected Reading @ 30m	Converted Reading @ 30m	Limit @ 30m
MHz		Degrees	dBuV	dB	dB	dBuV/m	uV/m	uV/m
13.30	Perpendicular / 1.00	358.4	25.0	11.7	-40.0	-3.3	0.68	106
13.30	Parallel / 1.00	358.4	14.4	11.7	-40.0	-11.4	0.20	106
13.30	Parallel to Ground / 1.00	316.9	11.1	11.7	-40.0	-17.2	0.14	106
13.75	Perpendicular / 1.00	358.4	22.1	11.7	-40.0	-6.2	0.49	106
13.75	Parallel / 1.00	358.4	18.1	11.7	-40.0	-10.2	0.31	106
13.75	Parallel to Ground / 1.00	316.9	13.6	11.7	-40.0	-14.7	0.18	106



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Report No. R-4109P-4, Rev. A

Requirements and Test Results

FCC Part 15.225 (d), Field Strength of Harmonics and Spurious (15.209)

The field strength of any emission outside the 13.110 MHz to 14,010 MHz band shall not exceed the general radiated limits of 15.209 as shown in Table 4 below.

Table 2 - Test Limits, Field Strength of Out of Band Emissions

Fundamental Frequency (MHz)	Field Strength of Fundamental microvolts/meter	Measurement Distance
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30 MHz	30	30
30.0 to 88.0	100	3
88.0 to 216.0	150	3
216.0 to 960.0	200	3
Above 960.0	500	3

- Results:
The field strength of spurious radiated emissions did not exceed the limits specified.

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
127A	ETS / EMCO	3104	ANTENNA, BICONICAL, 20 - 200 MHz	2319	2/28/2027
3207	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 9 kHz - 30 MHz	1033	5/31/2026
5272	ROHDE & SCHWARZ	ESPC	RECEIVER, EMI, 150 kHz - 1 GHz	843820/023	4/30/2026
8300	RETLIF	RPA	OPEN AREA TEST SITE, ATTENUATION, 3/10 Meter OATS	N/A	5/31/2026
8300C	UNKNOWN	3 METER CABLE	CABLE, COAXIAL, 3/10 METER	N/A	1/31/2026
8644	AGILENT / HP	85662A	ANALYZER, SPECTRUM, 100 Hz - 22 GHz	2848A18175	10/31/2026
8644A	AGILENT / HP	8566B	ANALYZER, SPECTRUM, 100 Hz - 22.5 GHz	2937A06124	10/31/2026
8644B	AGILENT / HP	85685A	ANALYZER, RF PRESELECTOR, 20 Hz - 2 GHz	2724A00532	10/31/2026
8663	DIGI-SENSE	20250-30	HYGROMETER, 0 - 50 deg. c, 10 - 90 % RH	151210306	10/31/2026
8808	ETS / EMCO	3147	ANTENNA, LOG PERIODIC, 200 MHz - 1 GHz	00244881	9/30/2026
8816	ROHDE & SCHWARZ	ESW26	RECEIVER, EMI, 1 Hz - 26 GHz	103087	9/30/2026



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Report No. R-4109P-4, Rev. A

FCC Part 15, Subpart C, Section 15.225 (d)
Harmonics and Spurious Emissions
9 kHz to 1000 MHz
Test Data



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.225(d), Harmonics and Spurious Emissions
Method:	ANSI C63.10, Section 6.4 and 6.5.
Job Number/Customer:	R- 4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model:	Aura Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Transmitting NFC at 13.56 MHz
Technician:	M. Nowak
Date(s):	12/22/25
Temperature:	4.0 °C
Relative Humidity:	40 %
Detector:	Quasi-peak
Test Distance:	3m
Notes: The frequency range was scanned from 9 kHz to 30 MHz The emissions observed from the EUT do not exceed the specified limits.	

Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted to 300m	Converted Reading	Limit at 300m
MHz	(Par/Perp) / Height	Degrees	dBuV	dB	dBuV/m	dBuV/m	uV/m	uV/m
0.009								266.67
0.490								4.89
Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted to 30m	Converted Reading	Limit at 30m
MHz	(Par/Perp) / Height	Degrees	dBuV	dB	dBuV/m	dBuV/m	uV/m	uV/m
0.490								48.98
1.705								14.08
1.705								30.00
27.12	Par / 1.00	357.5	21.4	9.0	30.4	-9.6	0.33	
27.12	Perp / 1.00	6.5	29.1	9.0	38.1	-1.9	0.80	
27.12	Par to GND / 1.00	357.5	24.7	9.0	33.7	-6.3	0.48	
30.00								30.00



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EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.225(d), Harmonics and Spurious Emissions
Method:	ANSI C63.10, Section 6.4 and 6.5.
Job Number/Customer:	R- 4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model:	Aura Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Transmitting NFC at 13.56 MHz
Technician:	M. Nowak
Date(s):	12/22/25 – 12/23/25
Temperature:	4.0 °C
Relative Humidity:	40 %
Detector:	Quasi-peak
Test Distance:	3m
Notes: The frequency range was scanned from 30 MHz to 100 MHz The emissions observed from the EUT do not exceed the specified limits. Two highest readings relative to the limit are presented. *Noise floor measurement, minimum sensitivity of measurement system.	

Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H) / (m)	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
40.68	V / 1.00	44.3	15.2	13.2	28.4	26.31	
40.68	H / 2.29	358.4	9.2	13.2	22.4	13.19	
54.02	V / 1.00	143.8	20.6	12.3	32.9	44.16	
54.02	H / 3.65	234.8	16.8	12.3	29.1	28.52	
67.80	V / 1.00	350.2	19.8	8.8	28.6	26.92	
67.80	H / 3.30	291.0	17.7	8.8	26.5	21.14	
81.36	V / 1.00	267.3	28.1	8.7	36.8	69.19	
81.36	H / 2.19	178.0	24.8	8.7	33.5	47.32	
88.00							100
88.00							150
*94.92	V / 1.00	180.0	24.7	12.1	36.8	69.19	
*94.92	H / 2.19	180.0	17.1	12.1	29.2	28.85	
108.48	V / 1.00	358.4	29.1	13.4	42.5	133.36	
108.48	H / 1.64	147.0	23.5	13.4	36.9	69.99	
122.43	V / 1.00	329.3	26.8	13.3	40.1	101.16	
122.43	H / 1.48	70.7	18.2	13.3	31.5	37.59	



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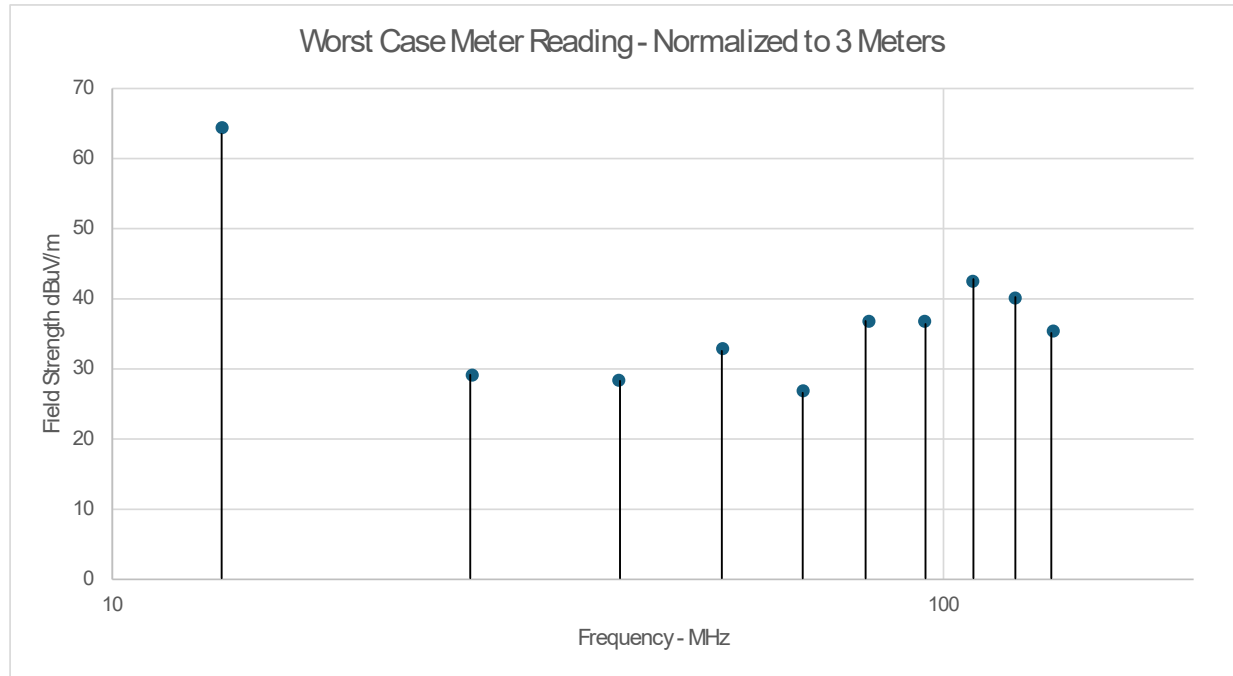
Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H) / (m)	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
135.34	V / 1.00	333.2	20.3	13.7	34.0	50.12	150
135.34	H / 1.34	70.5	21.7	13.7	35.4	58.89	
162.73	V / 2.00	1.5	20.2	18.3	38.5	84.14	
162.73	H / 1.00	88.8	24.5	18.3	42.8	138.04	
216.00							150
216.00							200
216.96	V / 1.42	358.4	27.8	13.2	41.0	112.21	
216.96	H / 1.00	310.0	21.8	13.2	35.0	56.24	
325.44	V / 2.36	255.9	17.3	17.0	34.3	51.89	
325.44	H / 1.00	234.6	16.3	17.0	33.3	46.24	
352.56	V / 2.26	281.3	15.8	17.8	33.6	47.87	
352.56	H / 1.72	3.8	18.4	17.8	36.2	64.57	
650.88	V / 1.00	241.9	18.5	24.2	42.7	136.46	
650.88	H / 2.34	242.6	16.3	24.2	40.5	105.93	
960.00							200
960.00							500
1000.00							500



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

Spectral Plot



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

Requirements and Test Results

FCC Section 15.225 (e) Frequency Stability, Temperature Variation and Voltage Variation

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees 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 degrees C.

Frequency Stability, Measurement Procedure:

The EUT was placed in a temperature chamber. An antenna was connected to a spectrum analyzer and placed outside the chamber. The EUT's RF output frequency was measured and recorded at the input voltages and temperatures shown in Table 3 below:

Table 3 - Frequency Stability Input Voltage and Temperatures

Input Voltage	Temperature
120 VAC	Ambient
120 VAC	-20 °C
120 VAC	-10 °C
120 VAC	0 °C
120 VAC	10 °C
120 VAC	20 °C
120 VAC	30 °C
120 VAC	40 °C
120 VAC	50 °C
120 VAC	20 °C
102 VAC	20 °C
138 VAC	20 °C

- **Results:** The Temperature and Voltage Variations of the EUT were in compliance with the specified requirements of 15.225(e).

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
1265	UNHOLTZ-DICKIE	CVA-4	AMPLIFIER, CHARGE / SIGNAL CONDITIONER, 2 Hz - 6 kHz	1066	1/31/2026
7066	CONTROL COMPANY	1042	STOPWATCH	200555262	11/30/2026
8124	KEYTEK	EMC PRO	GENERATOR, TRANSIENT, IEC 61000-4-11	9810207	5/31/2026
8137	EMPIRE DEVICES	LP-105	ANTENNA, LOOP, 150 KHz - 30 MHz	N/A	No Calibration Required
8265	AGILENT / HP	6843A	ANALYZER, POWER, 300Vrms, 4800VA	3531A-00130	Calibrate Before Use
8415	WEBER	WF285-40&250H	CHAMBER, TEMPERATURE / HUMIDITY, - 30 - +100 C	6901	10/31/2026
8619	OMEGA	OM-73	HYGROMETER, -20 to 70 deg. C, 0-99% RH	051442102C	4/30/2026
8749	RIGOL	DSA832E	ANALYZER, SPECTRUM, 9 kHz - 3.2 GHz	DSA8G2018001 33	5/31/2026



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

**FCC Part 15, Subpart C, Section 15.225(e)
Frequency Stability
Test Data**



Retlif Testing Laboratories

Report No. R-4109P-4, Rev. A

FREQUENCY STABILITY DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.225(e), Frequency Stability
Test Procedure:	ANSI C63.10, Section 6.8, Frequency Stability Tests
Test Method:	Frequency Stability, Temperature
Job Number / Customer:	R- 4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model Number:	Olera Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Transmitting NFC at 13.56 MHz
Technician:	G. Laing
Date(s):	1/9/2026
Temperature (Lab):	20.0 °C
Relative Humidity (Lab):	27.2%

Temperature (°C)	Time After Power Applied (Minutes)	Frequency Measured (MHz)	Lower Frequency Limit (MHz)	Upper Frequency Limit (MHz)	Result
50	0	See Footnote	13.558644	13.561356	Pass
	2		13.558644	13.561356	Pass
	5		13.558644	13.561356	Pass
	10		13.558644	13.561356	Pass
40	0	13.560183	13.558644	13.561356	Pass
	2	13.560250	13.558644	13.561356	Pass
	5	13.560250	13.558644	13.561356	Pass
	10	13.560266	13.558644	13.561356	Pass
30	0	13.560316	13.558644	13.561356	Pass
	2	13.560316	13.558644	13.561356	Pass
	5	13.560316	13.558644	13.561356	Pass
	10	13.560316	13.558644	13.561356	Pass
20	0	13.560400	13.558644	13.561356	Pass
	2	13.560416	13.558644	13.561356	Pass
	5	13.560400	13.558644	13.561356	Pass
	10	13.560400	13.558644	13.561356	Pass
10	0	13.560466	13.558644	13.561356	Pass
	2	13.560483	13.558644	13.561356	Pass
	5	13.560500	13.558644	13.561356	Pass
	10	13.560483	13.558644	13.561356	Pass
0	0	13.560533	13.558644	13.561356	Pass
	2	13.560533	13.558644	13.561356	Pass
	5	13.560533	13.558644	13.561356	Pass
	10	13.560533	13.558644	13.561356	Pass



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-10	0	13.560550	13.558644	13.561356	Pass
	2	13.560566	13.558644	13.561356	Pass
	5	13.560566	13.558644	13.561356	Pass
	10	13.560566	13.558644	13.561356	Pass
- 20	0	13.560583	13.558644	13.561356	Pass
	2	13.560550	13.558644	13.561356	Pass
	5	13.560583	13.558644	13.561356	Pass
	10	13.560533	13.558644	13.561356	Pass

Notes: At 50°C the EUT did not transmit



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FREQUENCY STABILITY DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.225(e), Frequency Stability
Test Procedure:	ANSI C63.10, Section 6.8, Frequency Stability Tests
Test Method:	Frequency Stability, Voltage
Job Number / Customer:	R- 4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model Number:	Olera Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Transmitting NFC at 13.56 MHz
Technician:	G. Laing
Date(s):	1/9/2026
Temperature (Lab):	20.0 °C
Relative Humidity (Lab):	27.2%

Voltage	Frequency	Lower Frequency Limit (MHz)	Upper Frequency Limit (MHz)	Result
120 (Nominal)	13.560483	13.558644	13.561356	Pass
102 (85%)	13.560450	13.558644	13.561356	Pass
138 (115%)	13.560450	13.558644	13.561356	Pass
Notes:				



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Requirements and Test Results

FCC Part 15.207(a), Conducted Emissions

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 2, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Table 4 - Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

*Decreases due to logarithm of the frequency

- Results:
The conducted emissions observed did not exceed the limits specified in Table 2.

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
8079	ROHDE &	ESH3	RECEIVER, EMI, 9 kHz - 30 MHz	861742/012	6/30/2026
8366A	RETLIF	20' BNC	CABLE, COAXIAL, 10 KHz - 1 GHz	n/a	5/31/2026
8496	NARDA MICROWAVE	768-10	ATTENUATOR, COAXIAL, 10 dB, DC - 11 GHz, 20 W	04105	6/30/2026
8619	OMEGA	OM-73	HYGROMETER, -20 to 70 deg. C, 0-99% RH	051442102C	4/30/2026
8633	SOLAR ELECTRONICS	21106-50-BP-25-BNC	LISN, 50 μ H, 150 kHz - 30 MHz	21106141201	9/30/2026
8634	SOLAR ELECTRONICS	21106-50-BP-25-BNC	LISN, 50 μ H, 150 kHz - 30 MHz	21106141202	9/30/2026
8749	RIGOL	DSA832E	ANALYZER, SPECTRUM, 9 kHz - 3.2 GHz	DSA8G2018001 33	5/31/2026



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FCC Part 15, Subpart C, Section 15.207 (a)
Conducted Emissions
150 kHz to 30 MHz
Test Data



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EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.207(a), Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model:	Olera Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Maintaining water in vessels to 37 °C and impeller speed to 100 RPM
Technician:	M. Nowak
Date(s):	1/12/25
Temperature:	20.0 °C
Relative Humidity:	26.0 %
Lead Tested:	120 VAC, 60 Hz, Hot

The frequency range was scanned from 0.15 MHz to 30 MHz.

The six highest emissions relative to the limit are presented.

The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	–	dBµV	dB	dBµV	dBµV	dB
0.1577	Peak	47.2	10.1	57.3	–	–
0.1577	Quasi-Peak	38.8	10.1	48.9	65.6	16.7
0.1577	Average	29.5	10.1	39.6	55.6	16.0
0.1894	Peak	42.9	10.1	53.0	–	–
0.1894	Quasi-Peak	36.8	10.1	46.9	64.1	17.2
0.1894	Average	27.6	10.1	37.7	54.1	16.4
0.5151	Peak	33.3	10.1	43.4	–	–
0.5151	Quasi-Peak	27.4	10.1	37.5	56.0	18.5
0.5151	Average	22.0	10.1	32.1	46.0	13.9
3.5689	Peak	30.3	10.2	40.5	–	–
3.5689	Quasi-Peak	21.7	10.2	31.9	56.0	24.1
3.5689	Average	14.9	10.2	25.1	46.0	20.9
13.5624	Peak	41.4	10.3	51.7	–	–
13.5624	Quasi-Peak	37.2	10.3	47.5	60.0	12.5
13.5624	Average	37.4	10.3	47.7	50.0	2.3
18.2993	Peak	35.5	10.4	45.9	–	–
18.2993	Quasi-Peak	30.2	10.4	40.6	60.0	19.4
18.2993	Average	29.3	10.4	39.7	50.0	10.3

* Peak measurements are recorded for informational purposes only.



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EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart C, Section 15.207(a), Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-4109P-4 / Distek Inc.
Test Sample:	Bathless Dissolution Tester
Model:	Olera Select
Part Number:	2022-2318
Serial Number:	Beta1
Operating Mode:	Maintaining water in vessels to 37 °C and impeller speed to 100 RPM
Technician:	M. Nowak
Date(s):	1/12/25
Temperature:	20.0 °C
Relative Humidity:	26.0 %
Lead Tested:	120 VAC, 60 Hz, Neutral

The frequency range was scanned from 0.15 MHz to 30 MHz.
The six highest emissions relative to the limit are presented.
The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	–	dBµV	dB	dBµV	dBµV	dB
0.1577	Peak	44.9	10.1	55.0	–	–
0.1577	Quasi-Peak	38.4	10.1	48.5	65.6	17.1
0.1577	Average	29.9	10.1	40.0	55.6	15.6
0.1894	Peak	42.0	10.1	52.1	–	–
0.1894	Quasi-Peak	35.6	10.1	45.7	64.1	18.4
0.1894	Average	27.7	10.1	37.8	54.1	16.3
0.5151	Peak	33.4	10.1	43.5	–	–
0.5151	Quasi-Peak	27.2	10.1	37.3	56.0	18.7
0.5151	Average	21.9	10.1	32.0	46.0	14.0
3.5689	Peak	31.0	10.2	41.2	–	–
3.5689	Quasi-Peak	22.1	10.2	32.3	56.0	23.7
3.5689	Average	15.4	10.2	25.6	46.0	20.4
13.5624	Peak	40.9	10.3	51.2	–	–
13.5624	Quasi-Peak	36.5	10.3	46.8	60.0	13.2
13.5624	Average	36.3	10.3	46.6	50.0	3.4
18.2993	Peak	33.4	10.4	43.8	–	–
18.2993	Quasi-Peak	27.1	10.4	37.5	60.0	22.5
18.2993	Average	25.5	10.4	35.9	50.0	14.1

* Peak measurements are recorded for informational purposes only.



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Requirements and Test Results

FCC Part 15.205, Restricted Bands of Operation

Except as shown in Section 15.205(d), only spurious emissions are permitted in any of the frequency bands listed in Table 4.

Table 5 – Restricted Bands of Operation

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41			

- Results:
The unit does not transmit in a restricted band.



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