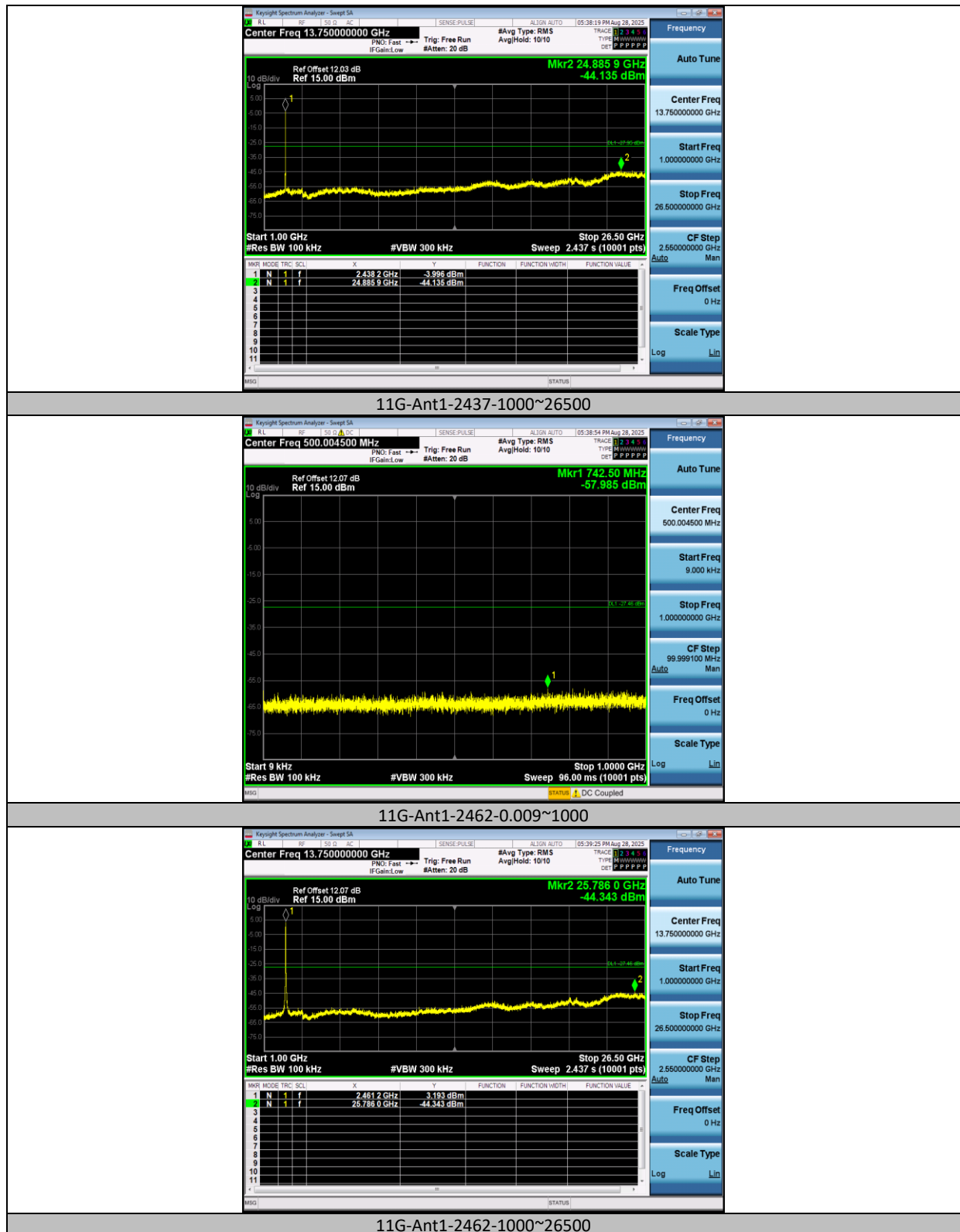
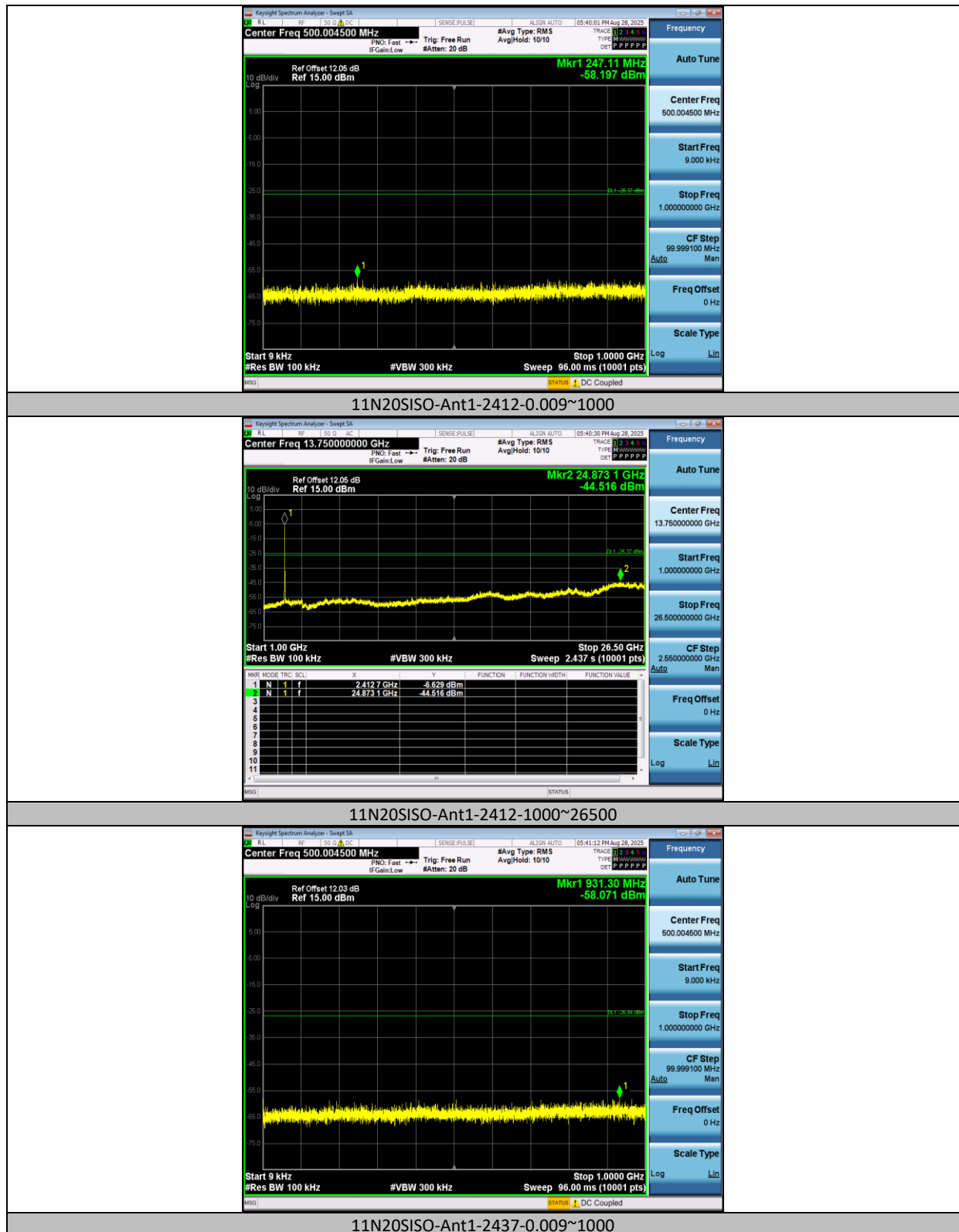
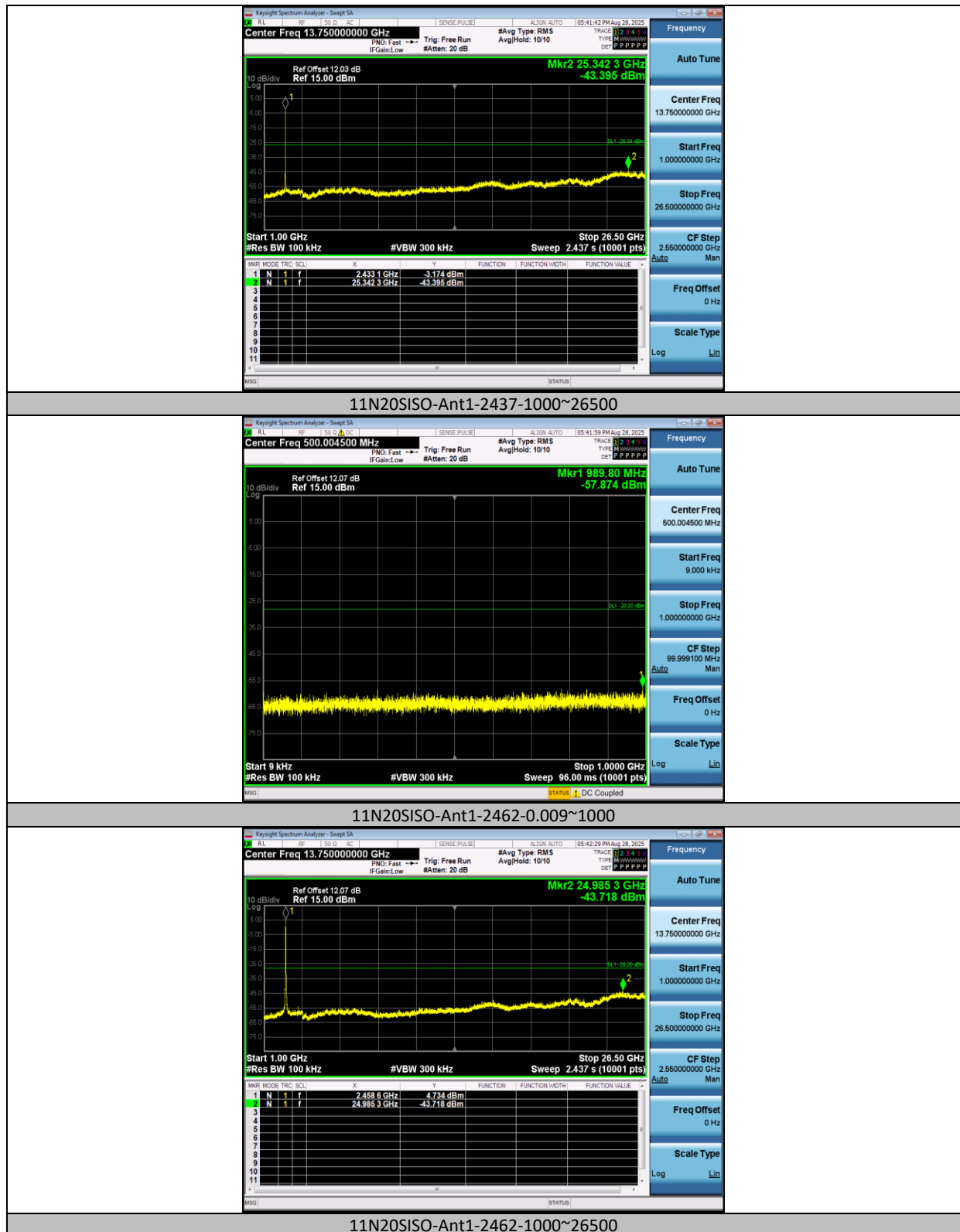
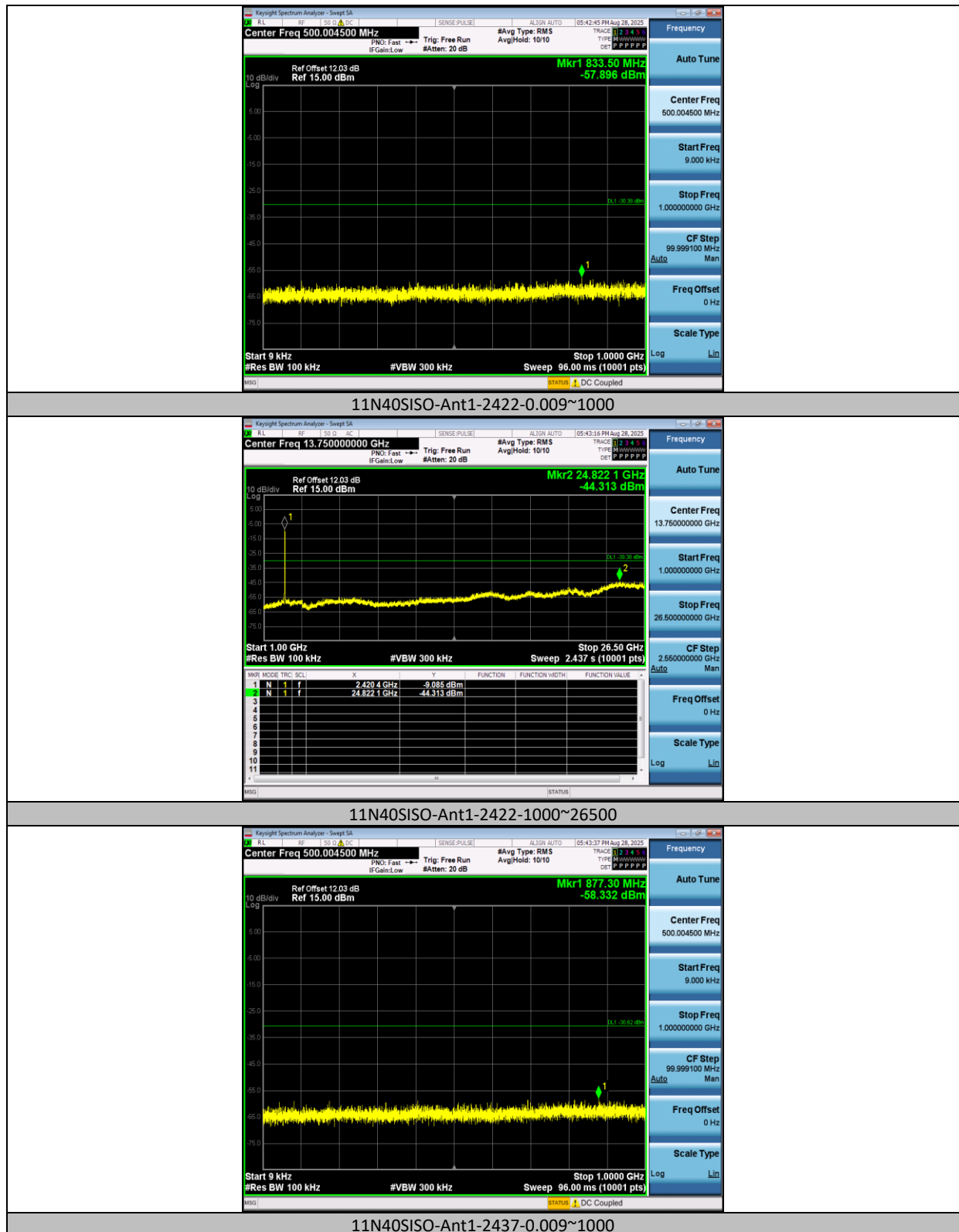
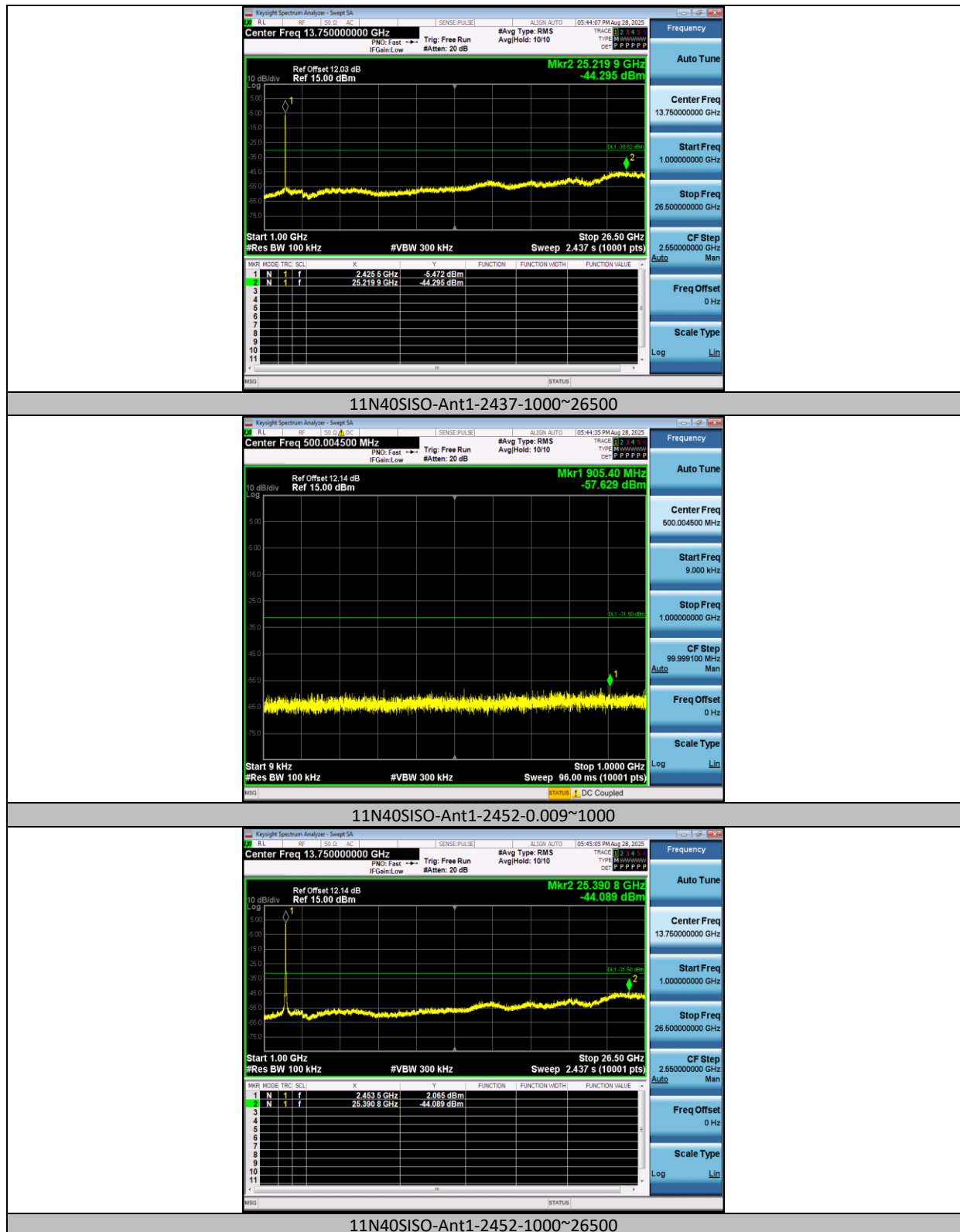




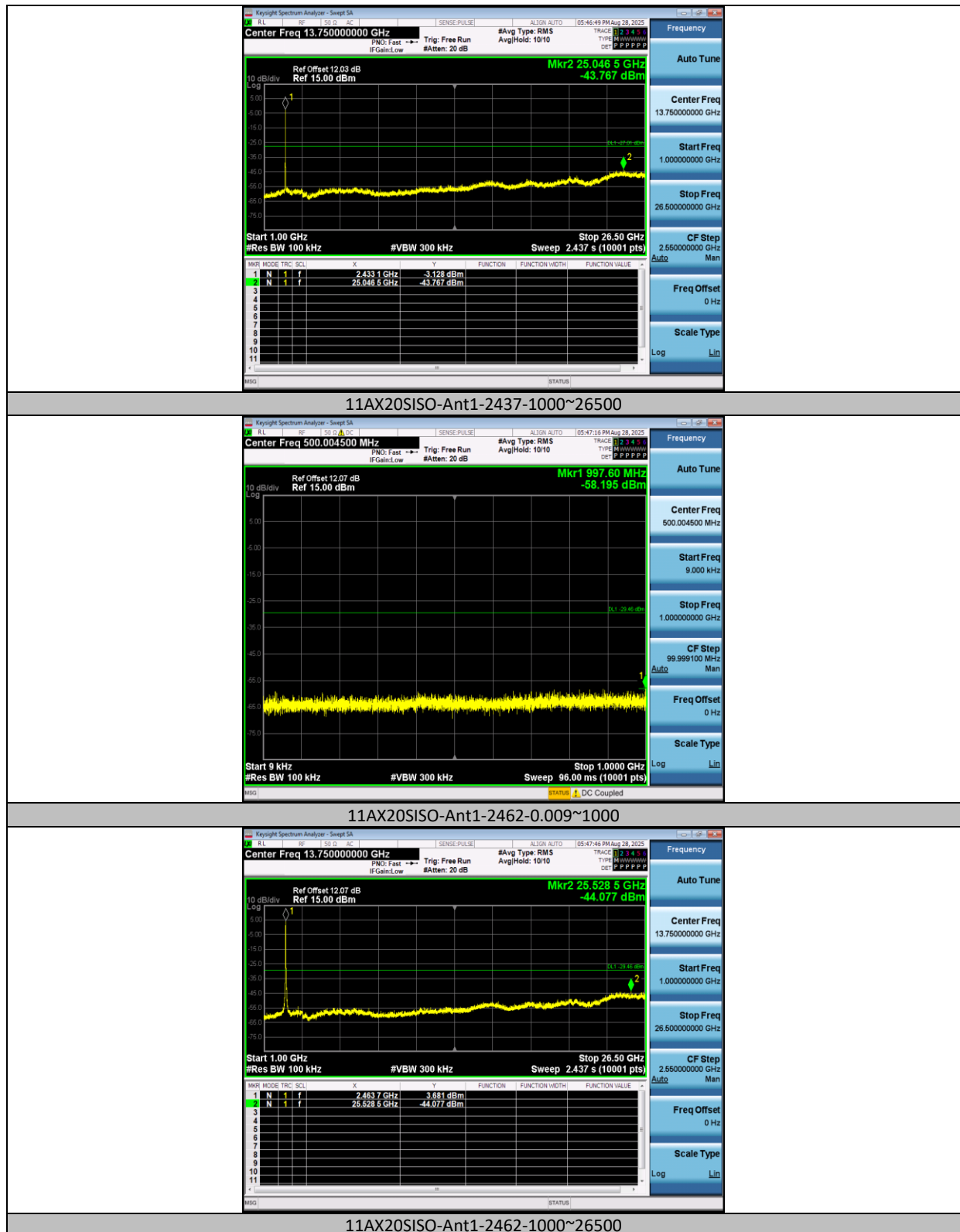












Applicant: EcoFlow Inc.

Worst Case Model: EF-AC-001

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 30dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 30dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

☒ Not required, since all emissions are more than 30dB below fundamental

☐ See attached data sheet

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Model: EF-AC-001

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Model: EF-AC-001

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB/m
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB/m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Model: EF-AC-001

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 191.7841MHz
is passed by 5.51dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

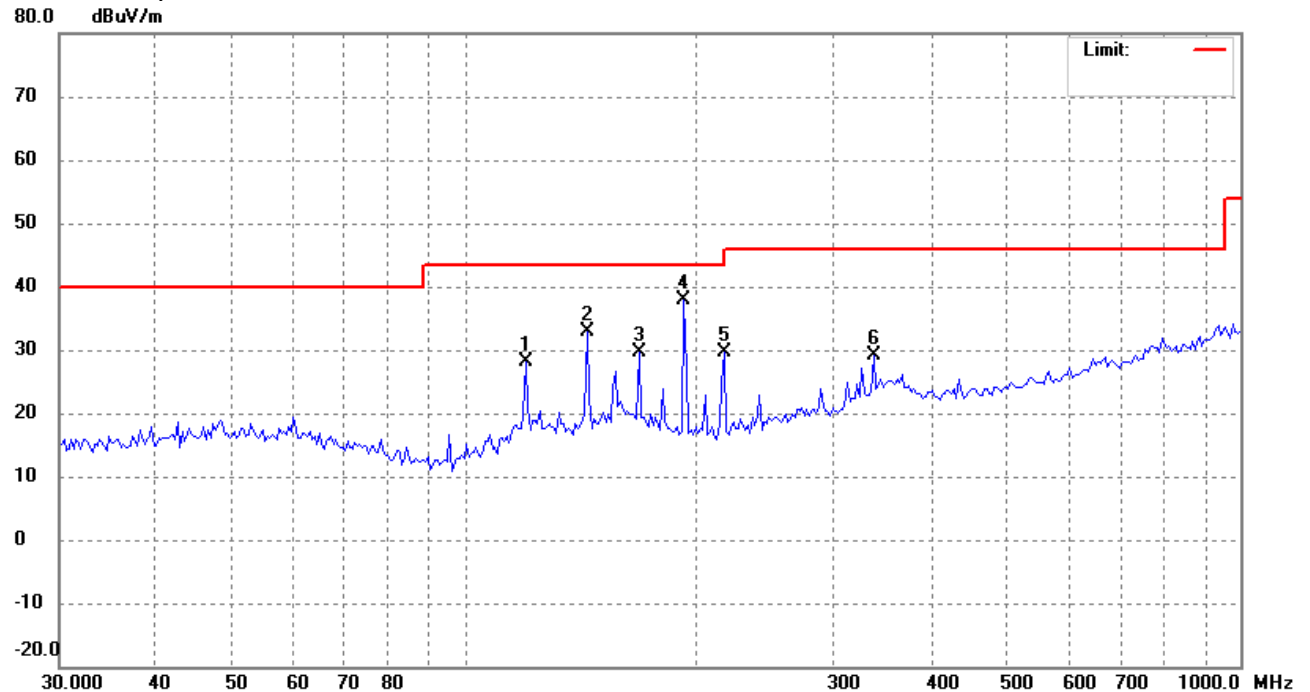
Worst Case Operating Mode:

Worst Case Test Voltage: DC 24V

Model: EF-AC-001

Transmitting (802.11b-Channel 01)

ANT Polarity: Horizontal



Limit and Margin

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	119.7672	39.15	-10.91	28.24	43.50	-15.26	QP
2	143.7760	42.03	-9.16	32.87	43.50	-10.63	QP
3	167.8136	38.44	-8.76	29.68	43.50	-13.82	QP
4	191.7841	49.27	-11.28	37.99	43.50	-5.51	QP
5	216.1197	41.31	-11.66	29.65	46.00	-16.35	QP
6	336.4817	36.16	-7.10	29.06	46.00	-16.94	QP

Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Factor (dB)

2. Level (dBμV/m) = Factor (dB/m) + Reading (dBμV)

3. Margin (dB) = Level (dBμV/m) - Limit (dBμV/m)

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Operating Mode:

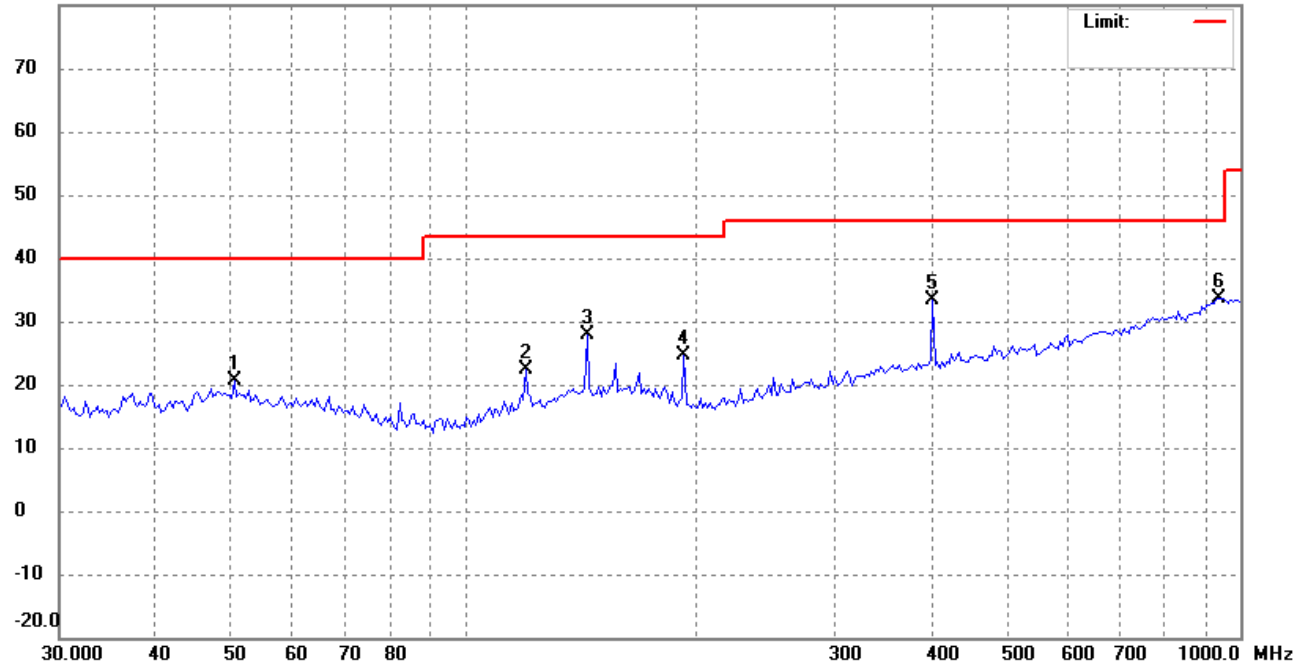
Worst Case Test Voltage: DC 24V

Model: EF-AC-001

Transmitting (802.11b-Channel 01)

ANT Polarity: Vertical

80.0 dBμV/m



Limit and Margin

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	50.4614	29.59	-8.98	20.61	40.00	-19.39	QP
2	119.7672	33.24	-10.91	22.33	43.50	-21.17	QP
3	143.7760	37.14	-9.16	27.98	43.50	-15.52	QP
4	191.7841	35.88	-11.28	24.60	43.50	-18.90	QP
5	401.1050	39.44	-6.08	33.36	46.00	-12.64	QP
6	938.7139	30.86	2.72	33.58	46.00	-12.42	QP

Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Factor (dB)

2. Level (dBμV/m) = Factor (dB/m) + Reading (dBμV)

3. Margin (dB) = Level (dBμV/m) - Limit (dBμV/m)

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Operating Mode:

Worst Case Test Voltage: DC 24V

Worst Case Model: EF-AC-001

Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Horizontal	*2390.00	57.83	0.69	58.52	74.00	-15.48	peak
Horizontal	*2390.00	43.01	0.50	43.51	54.00	-10.49	AVG
Horizontal	*4824.00	55.98	-13.21	42.77	74.00	-31.23	peak
Horizontal	*4824.00	54.24	-13.21	41.03	54.00	-12.97	AVG
Horizontal	*7236.00	52.96	-6.94	46.02	74.00	-27.98	peak
Horizontal	*7236.00	43.19	-6.94	36.25	54.00	-17.75	AVG

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
 5. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.
- * Emission within the restricted band meets the requirement of section 15.205.

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Operating Mode:

Worst Case Test Voltage: DC 24V

Worst Case Model: EF-AC-001

Transmitting (802.11b-Channel 07)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Horizontal	*4874.00	55.38	-13.15	42.23	74.00	-31.77	peak
Horizontal	*4874.00	53.90	-13.15	40.75	54.00	-13.25	AVG
Horizontal	*7311.00	52.57	-7.15	45.42	74.00	-28.58	peak
Horizontal	*7311.00	42.63	-7.15	35.48	54.00	-18.52	AVG

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
 5. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.
- * Emission within the restricted band meets the requirement of section 15.205.

Applicant: EcoFlow Inc.

Date of Test: 03 September 2025

Worst Case Operating Mode:

Worst Case Test Voltage: DC 24V

Worst Case Model: EF-AC-001

Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Horizontal	*2483.50	57.51	0.91	58.42	74.00	-15.58	peak
Horizontal	*2483.50	44.66	0.91	45.57	54.00	-8.43	AVG
Horizontal	*4924.00	55.93	-13.09	42.84	74.00	-31.16	peak
Horizontal	*4924.00	54.22	-13.09	41.13	54.00	-12.87	AVG
Horizontal	*7386.00	52.51	-7.37	45.14	74.00	-28.86	peak
Horizontal	*7386.00	43.65	-7.37	36.28	54.00	-17.72	AVG

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
 5. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.
- * Emission within the restricted band meets the requirement of section 15.205.

Applicant: EcoFlow Inc.

Worst Case Model: EF-AC-001

4.9 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- ☐ Not required - No digital part
- ☐ Test results are attached
- ☒ Included in the separated report.

Applicant: EcoFlow Inc.

Worst Case Model: EF-AC-001

4.10 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
WTXE1084A1001	Spectrum Analyzer	Agilent	N9020A	MY54320548	2025-02-23	2026-02-22
WTXE1105A1008	RF Control Unit	Tonscend	JS0806-2	24F80620870	2025-02-23	2026-02-22
WTXE1003A1-005	Coaxial Cable	-	0M4RFC	-	2025-02-23	2026-02-22
WTXE1049A1006	Anechoic Chamber C	SKET	SKET966	-	2024-09-08	2025-09-07
WTXE1093A1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1007A1002	Amplifier	HP	8447F	2944A03869	2025-02-23	2026-02-22
WTXE1104A1034-1	Coaxial Cable	-	RC_6G-N-M	-	2025-02-23	2026-02-22
WTXE1104A1034-2	Coaxial Cable	-	RC_6G-N-M	-	2025-02-23	2026-02-22
WTXE1104A1034-3	Coaxial Cable	-	RC_6G-N-M	-	2025-02-23	2026-02-22
WTXE1103A1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A1006	Amplifier	Tonscend	TAP01018050	AP22E806235	2025-02-23	2026-02-22
WTXE1010A1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A1035-1	Coaxial Cable	-	RC-18G-N-M	-	2025-02-23	2026-02-22
WTXE1104A1035-2	Coaxial Cable	-	RC-18G-N-M	-	2025-02-23	2026-02-22
WTXE1104A1035-3	Coaxial Cable	-	RC-18G-N-M	-	2025-02-23	2026-02-22

***** End of Report *****