



**F2 Labs**  
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## CERTIFICATION TEST REPORT

**Manufacturer:** GI Bionics LLC  
11107 Roselle Street, Suite 213  
San Diego, California 92121 USA

**Applicant:** Same as Above

**Product Name:** Data Hub

**Product Description:** Wireless Data Hub that collects data from a probe and transmits data to PC application running on a laptop and a Data Hub charger as part of the Fecobionics system.

**Operating Voltage/Freq. of EUT During Testing:** 120V/60 Hz

**Model:** DH-100

**FCC ID:** 2BBFTDH100SG01

**Testing Commenced:** 2023-12-08

**Testing Ended:** 2025-04-22

**Summary of Test Results:** **In Compliance, with Modifications**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications and/or manufacturer's statement. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Standards:**

- ❖ FCC Part 15 Subpart C, Section 15.249
- ❖ FCC Part 15 Subpart C, Section 15.215(c) – Additional provisions to the general radiated emission limitations
- ❖ FCC Part 15 Subpart A, Section 15.31(e) – Measurement Standards



Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

**Evaluation Conducted by:**

Erik Tobin, EMC Engineer

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**Report Reviewed by:**

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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Measurement Procedure:

All measurements were performed according to the 2013 version of ANSI C63.10 and recommended FCC procedure of measurement for devices operating under Section 15.249. A list of the measurement equipment can be found in Section 6.

### 1.3 Uncertainty Budget:

The uncertainty in EMC measurements arises from several factors which affect the results, some associated with environmental conditions in the measurement room, the test equipment being used, and the measurement techniques adopted.

The measurement uncertainty budgets detailed below are calculated from the test and calibration data and are expressed with a 95% confidence factor using a coverage factor of  $k=2$ . The Uncertainty for a laboratory is referred to as  $U_{lab}$ . For Radiated and Conducted Emissions, the Expanded Uncertainty is compared to the  $U_{cispr}$  values to determine if a specific margin is required to deem compliance.

$U_{lab}$

Measurement Range	Combined Uncertainty	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	2.54dB	5.07dB
Radiated Emissions <1 GHz @ 10m	2.55dB	5.09dB
Radiated Emissions 1 GHz to 2.7 GHz	1.81dB	3.62dB
Radiated Emissions 2.7 GHz to 18 GHz	1.55dB	3.10dB
AC Power Line Conducted Emissions, 150kHz to 30 MHz	1.38dB	2.76dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	1.66dB	3.32dB

$U_{cispr}$

Measurement Range	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	5.2dB
Radiated Emissions <1 GHz @ 10m	5.2dB
Radiated Emissions 1 GHz to 2.7 GHz	Under Consideration
Radiated Emissions 2.7 GHz to 18 GHz	Under Consideration
AC Power Line Conducted Emissions, 150kHz to 30 MHz	3.6dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	4.0dB

If  $U_{lab}$  is less than or equal to  $U_{cispr}$ , then:

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  in table 1, then:

- compliance is deemed to occur if no measured disturbance, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Note: Only measurements listed in the tables above that relate to tests included in this Test Report are applicable.



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#### 1.4 Document History:

Document Number	Description	Issue Date	Approved By
F2P29439B-06E	First Issue	2025-04-22	K. Littell



Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

## 2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
99% Occupied Bandwidth	CFR 47 Part 15.215(c)	Complies
-20dB Occupied Bandwidth	CFR 47 Part 15.215(c)	Complies
Field Strength of Emissions	CFR 47 Part 15.249(a)(d)	Complies*
Variation of the Input Power	CFR 47 Part 15.31(e)	Complies
Conducted Emissions	CFR 47 Part 15.207(a)	Complies

Note: Product was operated using an AC to DC power supply, so Voltage Variation testing in 15.31(3)(e) was performed at the nominal voltage, and then the 85% and 115% of that voltage was tested also. The output power at the Low, Mid, and High channels was measured to verify how much the power and frequency were affected by the variation of the input power. No shift in frequency or power was measured at either of the varied voltages on any of the channels.

Modifications Made to the Equipment
<i>*Power setting was set to 0dBm to meet Field Strength, Band Edge, and Harmonics requirements.</i>



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### 3 TABLE OF MEASURED RESULTS

Test		902.4 MHz	915 MHz	927 MHz
Field Strength of Fundamental*		93.3 dB $\mu$ V/m, 46.2 mV/m	91.7 dB $\mu$ V/m 38.5 mV/m	93.4 dB $\mu$ V/m 46.8 mV/m
Limit for Fundamental		94 dB $\mu$ V/m, 50 mV/m	94 dB $\mu$ V/m, 50 mV/m	94 dB $\mu$ V/m, 50 mV/m
-20dB Occupied Bandwidth		0.309 MHz	0.332 MHz	0.327 MHz
99% Occupied Bandwidth		0.225 MHz	0.228 MHz	0.232 MHz
Voltage Variations	Nominal	93.3 dB $\mu$ V/m, 46.2 mV/m	91.7 dB $\mu$ V/m 38.5 mV/m	93.4 dB $\mu$ V/m 46.8 mV/m
	-15%	92.3 dB $\mu$ V/m, 41.2 mV/m	92.4 dB $\mu$ V/m, 41.7 mV/m	92.5 dB $\mu$ V/m, 42.2 mV/m
	+15%	92.2 dB $\mu$ V/m, 40.7 mV/m	92.2 dB $\mu$ V/m, 40.7 mV/m	92.7 dB $\mu$ V/m, 43.3 mV/m

\*Power setting: 0dBm.

The -20dB bandwidth of the emission shall be contained within the frequency band designated in the rule section under which the equipment is operated.



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Applicant: GI Bionics LLC

Model: DH-100

#### 4 ENGINEERING STATEMENT

This report has been prepared on behalf of GI Bionics LLC, to provide documentation for the testing described herein. This equipment has been tested and found to comply with part 15.249 of the FCC Rules using ANSI C63.10 2013 standard. The test results found in this test report relate only to the items tested.



Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

## 5 EUT INFORMATION AND DATA

### 5.1 Equipment Under Test:

Product: **Data Hub**

Model: DH-100

Serial No.: 23118EC701

Firmware: v2.2.00

Hardware: 430-108-CCA Rev A

FCC ID: **2BBFTDH100SG01**

### 5.2 Trade Name:

GI Bionics LLC

### 5.3 Power Supply:

CUI model SWM6-5-NH, s/n 202600072

### 5.4 Applicable Rules:

CFR 47, Part 15.249

### 5.5 Antenna:

Whip Antenna

### 5.6 Accessories:

N/A

### 5.7 Test Item Condition:

The equipment to be tested was received in good condition.

### 5.8 Testing Algorithm:

EUT was set to transmit a continuous modulated signal in the 900 MHz band. Measurements were made on the low, mid and high frequencies of 902.4, 915 and 927 MHz.



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Model: DH-100

## 6 LIST OF MEASUREMENT INSTRUMENTATION

Equipment Type	Asset Number	Manufacturer	Model	Serial Number	Calibration Due Date
Shielded Chamber	CL166-E	Albatross Projects	B83117-DF435-T261	US140023	2025-05-31
Receiver	CL151	Rohde & Schwarz	ESU40	100319	2025-04-09
Antenna, Horn	CL098	Emco	3115	9809-5580	2026-01-21
Horn Antenna 18-26.5 GHz	CL114	A. H. Systems, Inc.	SAS-572	237	2026-01-09
Pre-Amplifier	CL153	Agilent	83006-69007	MY57280115	2025-12-04
Preamplifier	CL284	AH Systems, Inc.	PAM-1001	131	2025-04-10
Amplifier w/Monopole & 18" Loop	CL163-Loop	A.H. Systems, Inc.	EHA-52B	100	2026-04-01
Antenna, JB3 Combination	CL175	Sunol Sciences	JB3	A030315	2025-09-18
Low Loss Cable Set	CL315/CL318	Fairview Microwave	FMC0202914-72/FMC0202914-240	None Spec.	2025-04-10
Software:	Tile Version 3.4.B.3	Software Verified: 2023-12-08 to 2023-12-19; 2025-04-03			
Software:	EMC 32, Version 8.53.0	Software Verified: 2023-12-08 to 2023-12-19; 2025-04-03			
Spectrum Analyzer	0141	Hewlett Packard	8591E	3520A04145	2026-04-07
Transient Limiter	0202	Hewlett Packard	11947A	3107A00729	2026-04-07
LISN	CL184	Com-Power	Li-125A	191213	2026-11-02
LISN	CL185	Com-Power	LI-125A	191214	2026-11-02
Temp/Hum. Recorder	CL293	Thermpro	TP50	1	2025-05-31
Temp/Hum Recorder	CL294	Thermpro	TP50	2	2026-04-27
Temp/Hum Recorder	CL232	Extech	445814	01	2025-05-19



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## 7 FCC PART 15.215(e), OCCUPIED BANDWIDTH

### 7.1 Requirements:

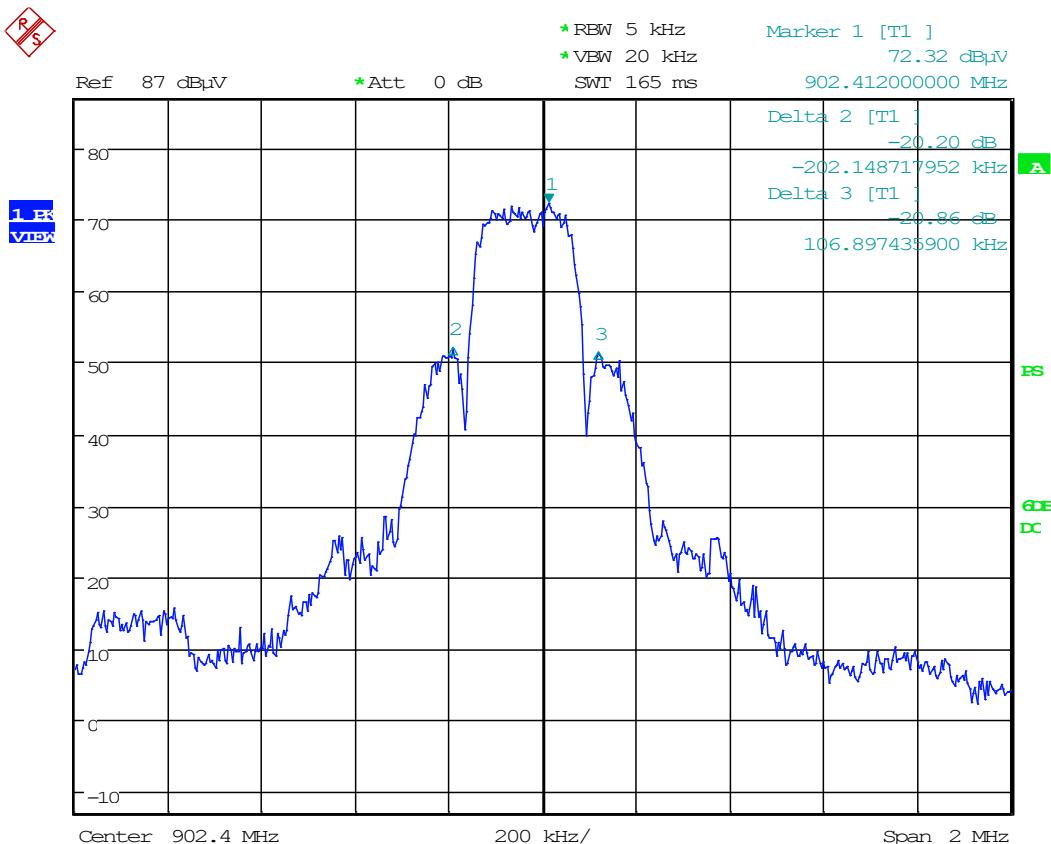
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the -20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage.

Bandwidth measurements were made at the low, mid and high frequencies. The -20 dB bandwidth was measured using the marker delta method. The 99% bandwidth was measured using the analyzer's OBW function.

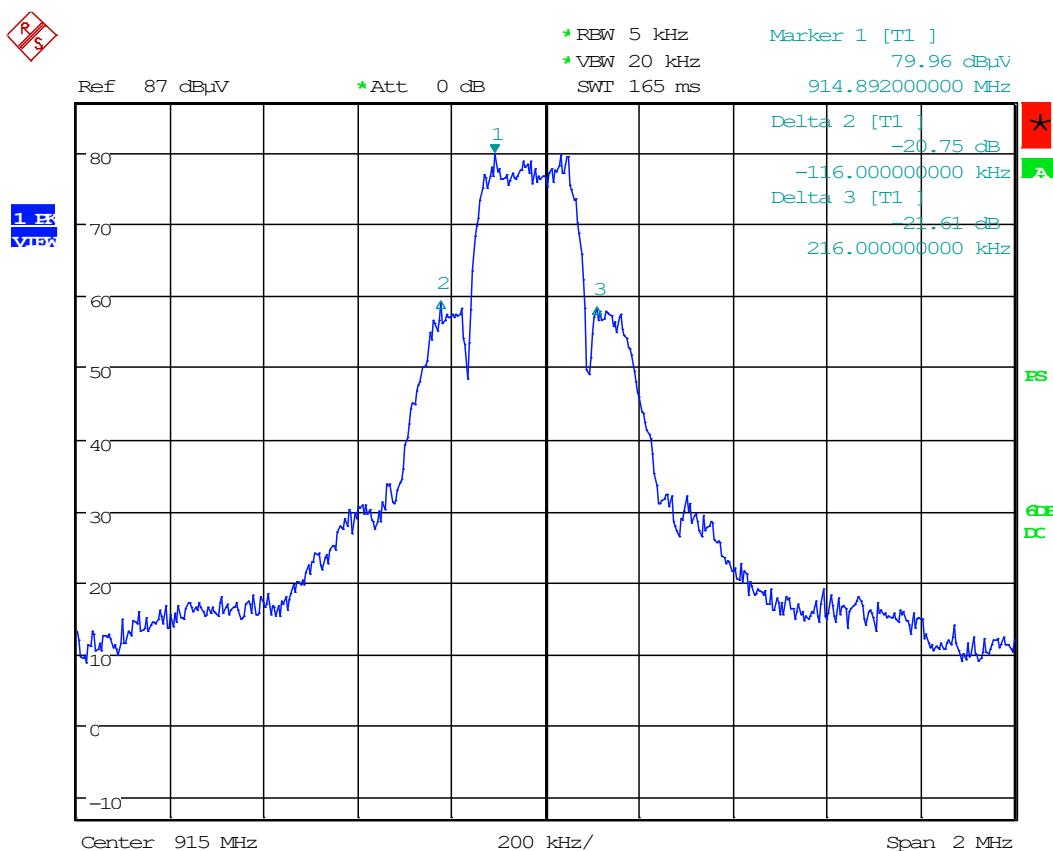
## 7.2 Occupied Bandwidth Test Data

<b>Test Date(s):</b>	2023-12-12 ; 2025-04-03	<b>Test Engineer:</b>	J. Chiller ; E. Tobin
<b>Standards:</b>	CFR 47 Part 15.215(c)	<b>Air Temperature:</b>	22.1°C
		<b>Relative Humidity:</b>	32%

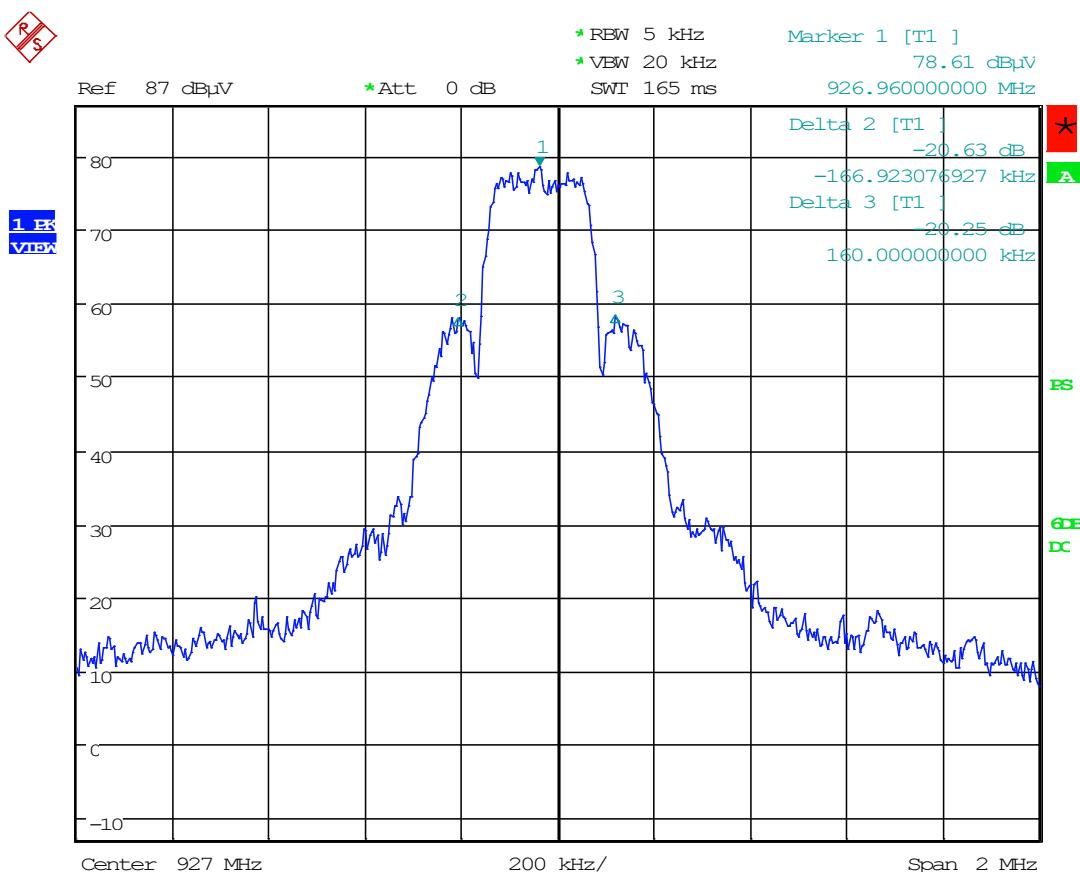
**OBW, -20dB: 902.4 MHz**



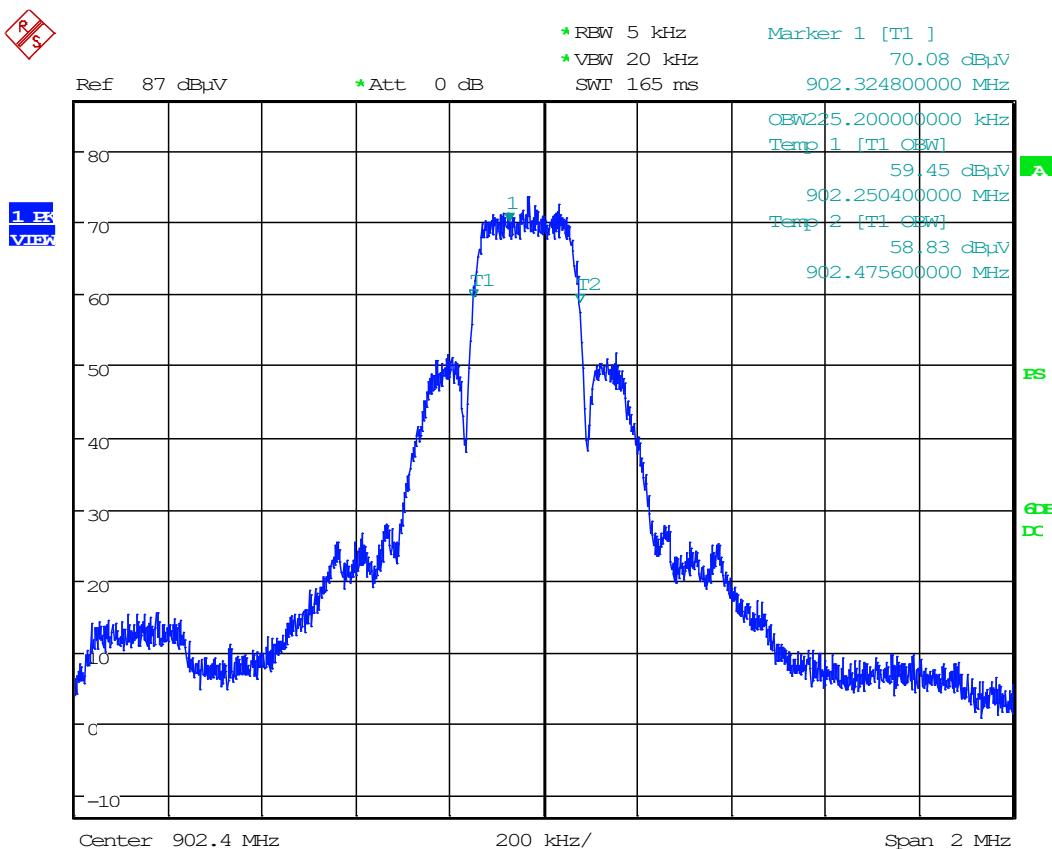
## OBW, -20dB: 915 MHz



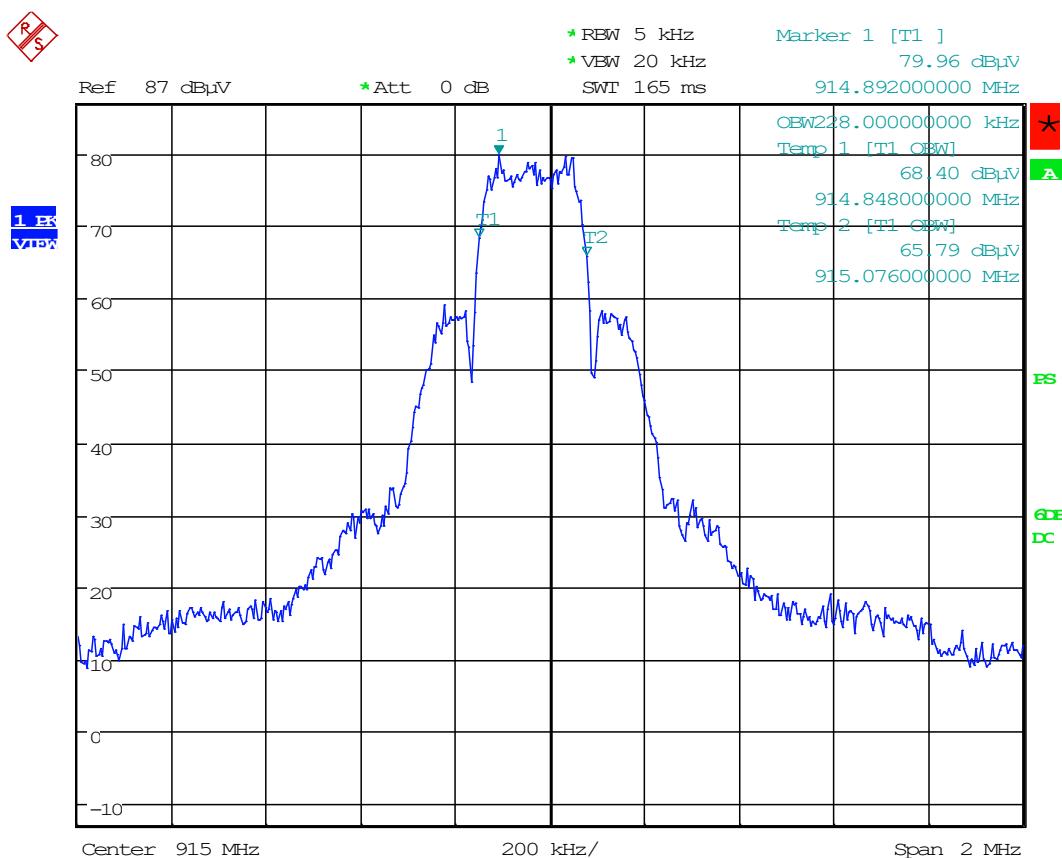
## OBW, -20dB: 927 MHz



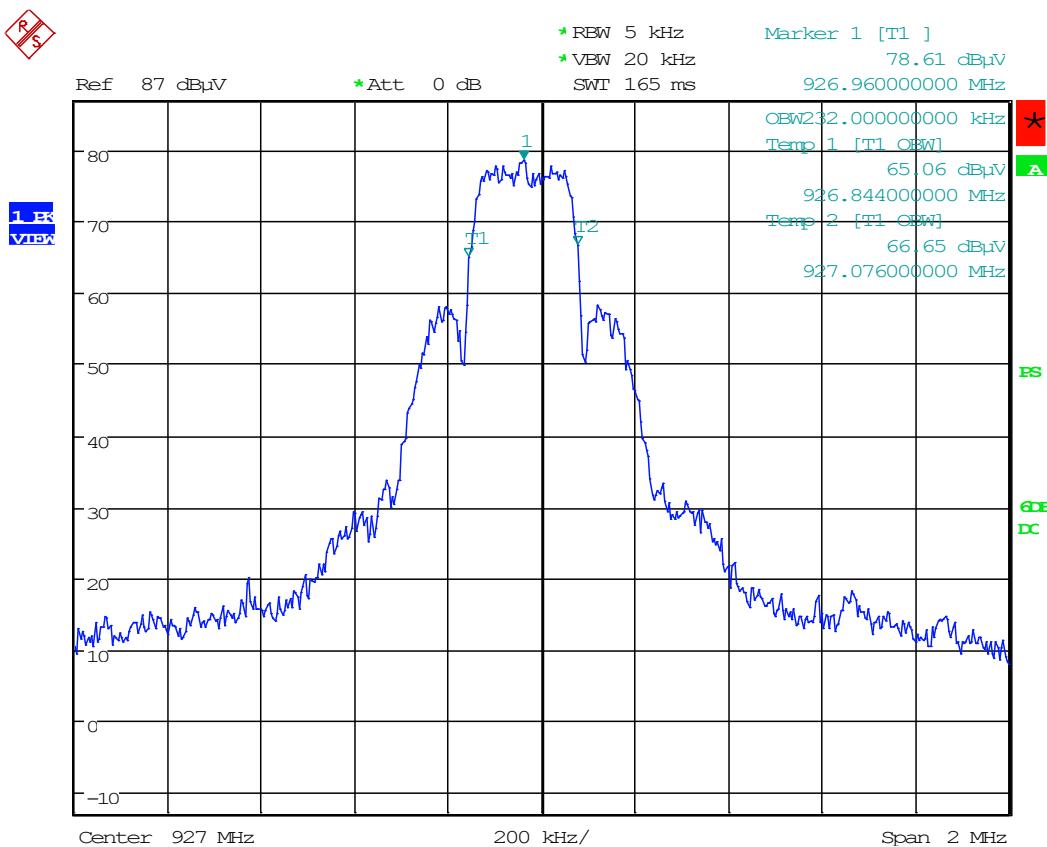
## OBW, 99%: 902.4 MHz



## OBW, 99%: 915 MHz



## OBW, 99%: 927 MHz





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**8 FCC PART 15.249(a)(d) – FIELD STRENGTH OF EMISSIONS FROM INTENTIONAL RADIATORS**

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

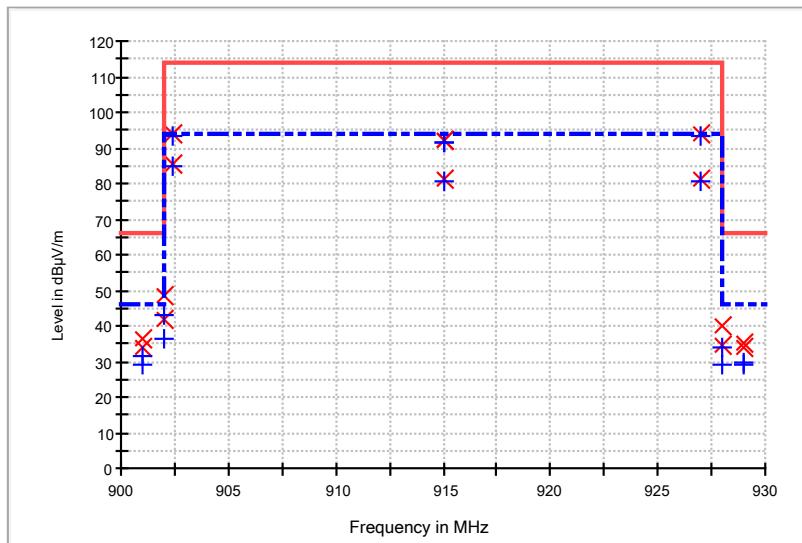
NOTE: During the pre-scan evaluation, the EUT was rotated in all possible directions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions.

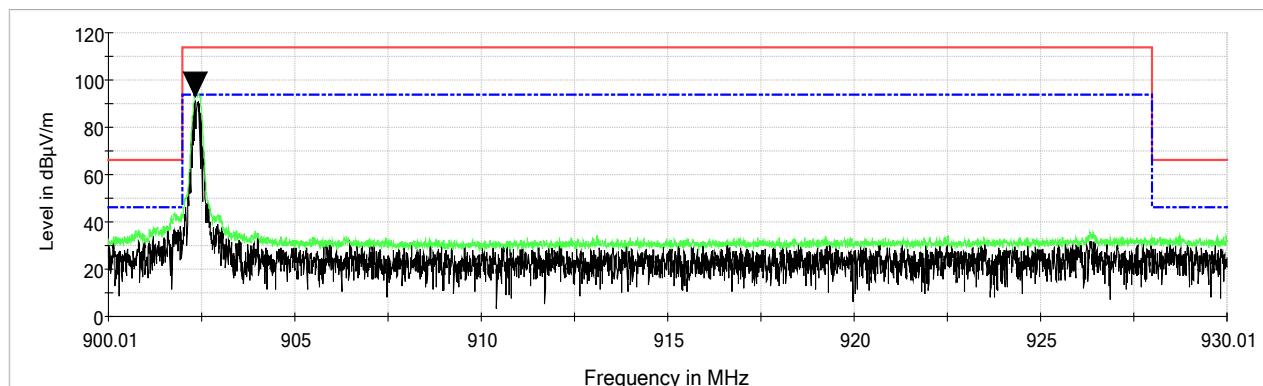
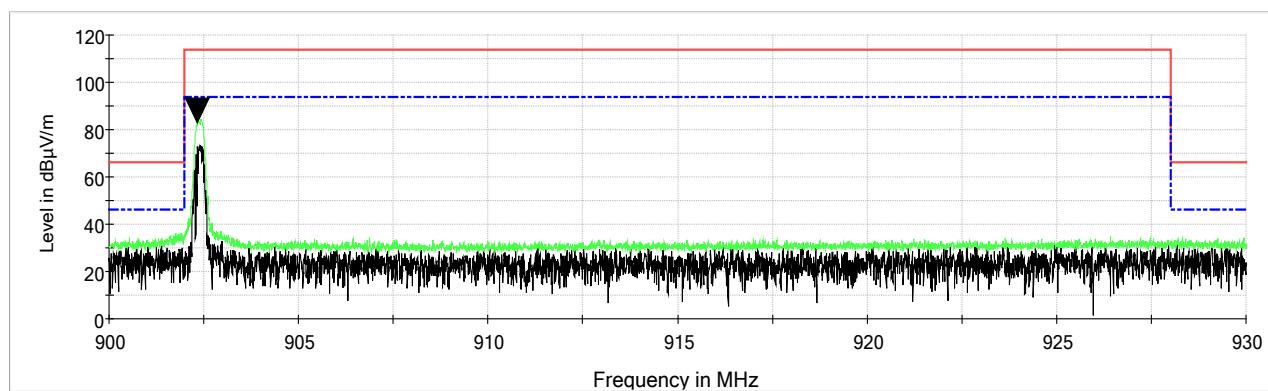
## 8.1 Test Data - Field Strength of Emissions from Intentional Radiators

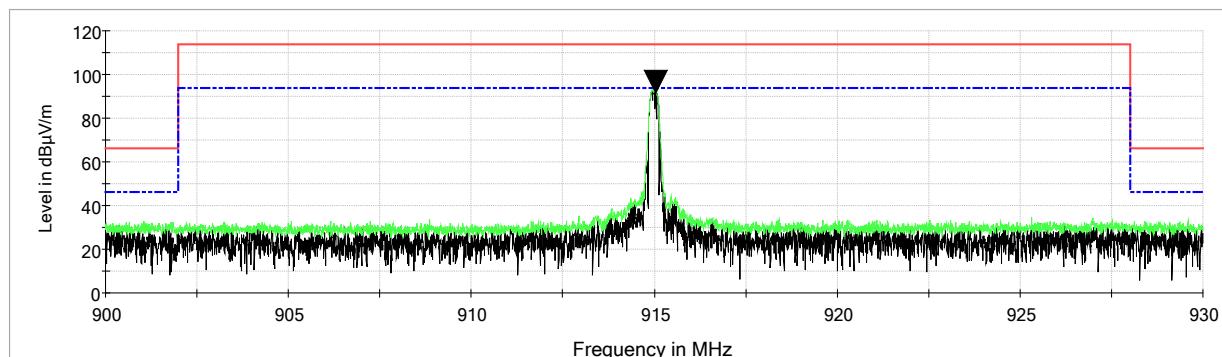
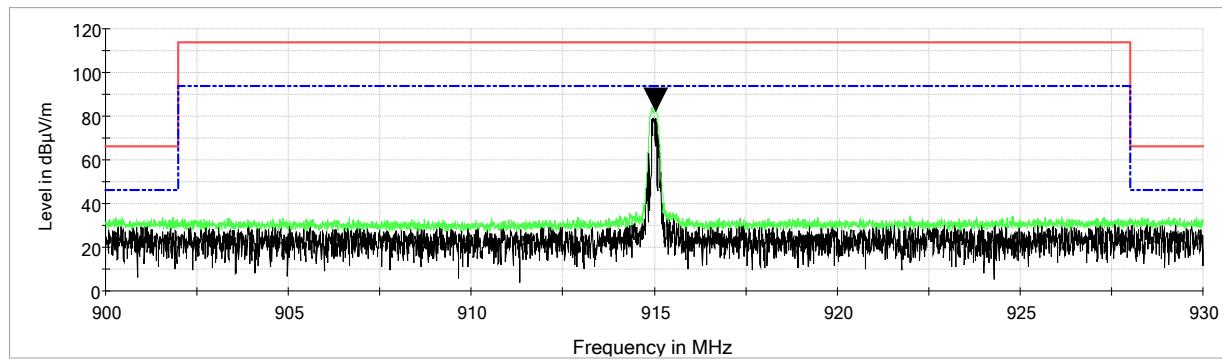
Test Date(s):	2025-04-03	Test Engineer(s):	E. Tobin
Standards:	CFR 47 Part 15.249(a)	Air Temperature:	21.6°C

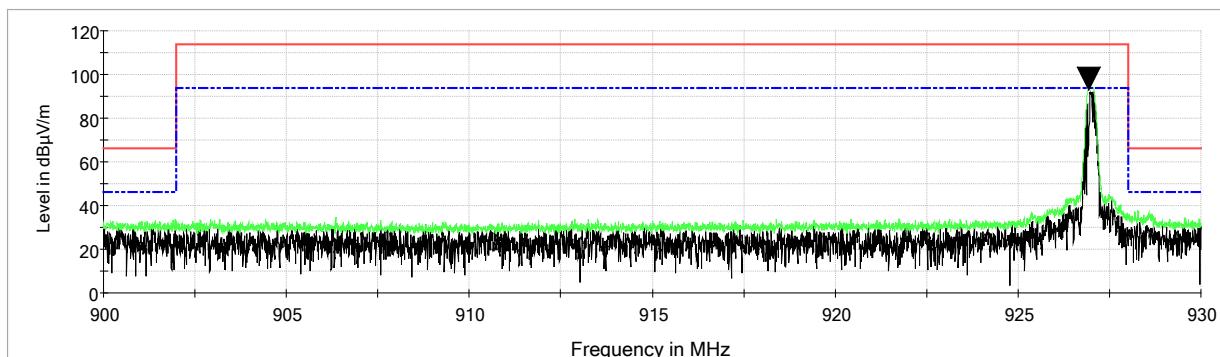
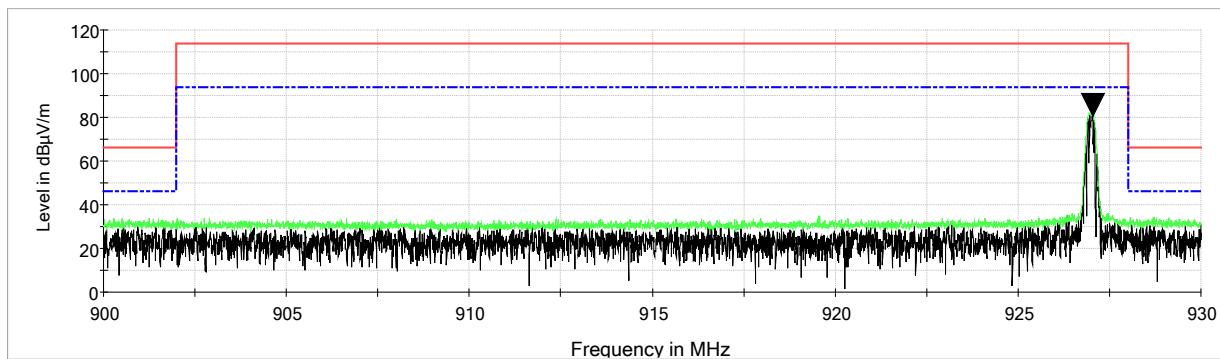
All modulations (200 kbps, 2-GFSK, 50kHz deviation, 100 deviation)

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
901.000000	36.5	31.7	120.000	110.0	V	245.0	-13.5	14.3	46.0
901.000000	34.1	29.4	120.000	100.0	H	55.0	-13.5	16.6	46.0
902.000000	42.0	36.2	120.000	100.0	H	55.0	-13.6	9.8	46.0
902.000000	48.4	42.9	120.000	110.0	V	245.0	-13.6	3.1	46.0
902.400000	93.8	93.3	120.000	110.0	V	245.0	-13.6	0.7	94.0
902.400000	85.6	85.0	120.000	100.0	H	55.0	-13.6	9.0	94.0
915.000000	92.4	91.7	120.000	100.0	V	115.0	-13.3	2.3	94.0
915.000000	81.2	80.6	120.000	150.0	H	223.0	-13.3	13.4	94.0
927.000000	81.5	80.9	120.000	100.0	H	55.0	-12.9	13.1	94.0
927.000000	93.9	93.4	120.000	100.0	V	125.0	-12.9	0.6	94.0
928.000000	34.8	29.4	120.000	100.0	H	55.0	-12.9	16.6	46.0
928.000000	39.8	33.9	120.000	100.0	V	125.0	-12.9	12.1	46.0
929.000000	34.2	28.9	120.000	100.0	H	55.0	-12.7	17.1	46.0
929.000000	34.9	29.9	120.000	100.0	V	125.0	-12.7	16.1	46.0



**902.4 MHz, Vertical****902.4 MHz, Horizontal**

**915 MHz, Vertical****915 MHz, Horizontal**

**927 MHz, Vertical****927 MHz, Horizontal**



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Model: DH-100

## 8.2 Test Data – Spurious Emissions

Notes: Plots are peak, max hold pre-scan data included only to determine what frequencies to investigate and measure. During the pre-scan evaluation, the EUT was rotated in all possible directions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. At some frequencies, no emissions from the EUT were measurable over the ambient noise floor. The readings did not change with EUT on and EUT off.

At least 6 of the highest frequencies were measured per ANSI 63.4 in a 3-meter anechoic chamber. Frequencies below 1 GHz were measured using a quasi-peak detector. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions. Frequencies were scanned from 9kHz to 13 GHz and the highest emissions are listed below.

In the following plots, the black line indicates ambient noise and the red line indicates the measurement with the EUT on. Emissions to be found by the EUT were measured and listed in tables below. The following graphs represent scans at the 920.8 MHz frequency.



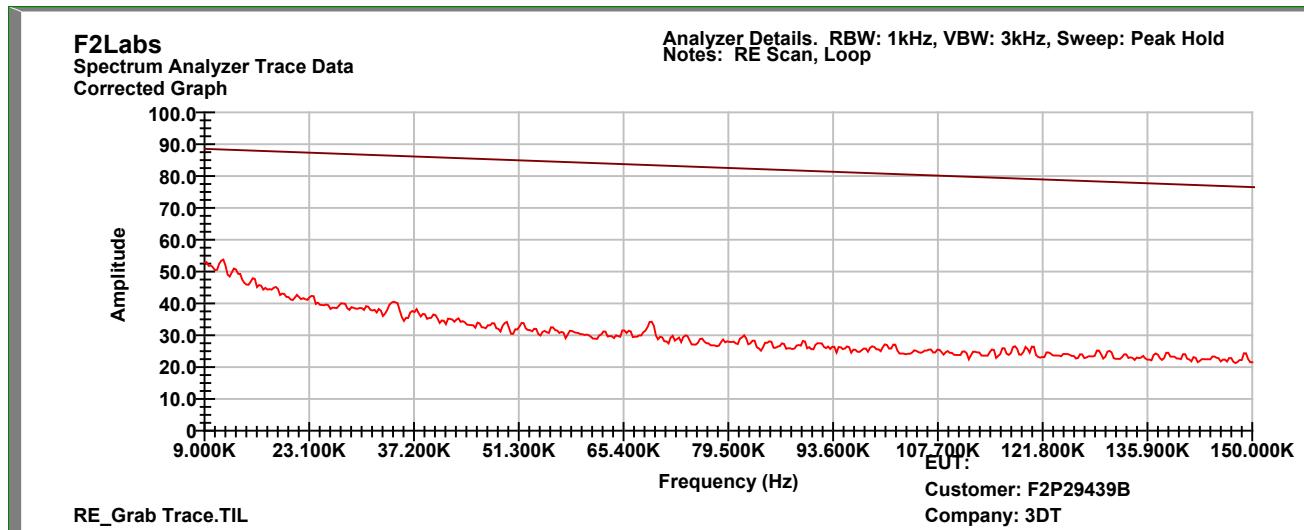
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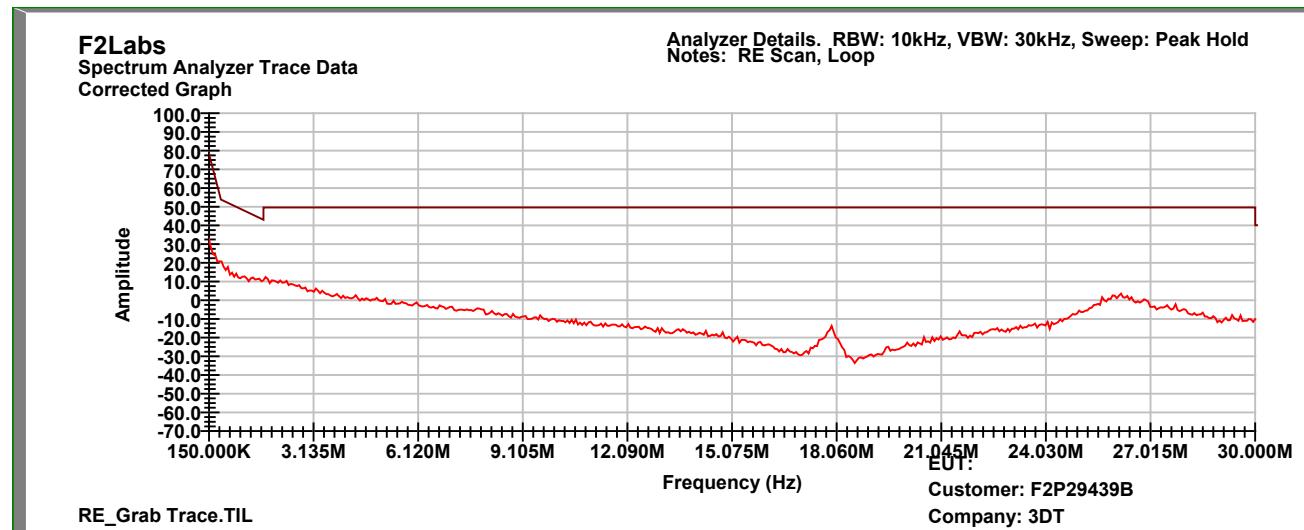
Model: DH-100

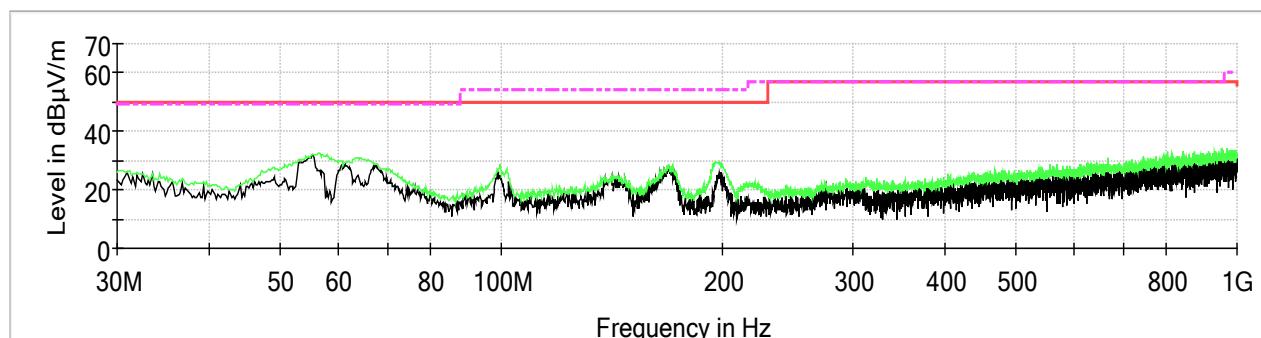
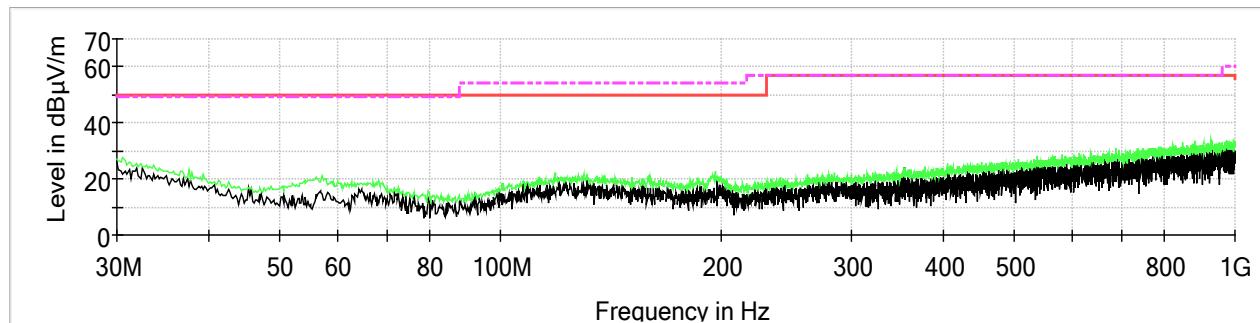
<b>Test Date(s):</b>	2023-12-12 ; 2025-04-03	<b>Test Engineer:</b>	J. Chiller ; E. Tobin
<b>Standards:</b>	CFR 47 Part 15.249(d) / Part 15.209	<b>Air Temperature:</b>	21.7°C
		<b>Relative Humidity:</b>	34%

### Characterization Scan, 0.009 MHz to 0.15 MHz (Loop)



### Characterization Scan, 0.15 MHz to 30 MHz (Loop)

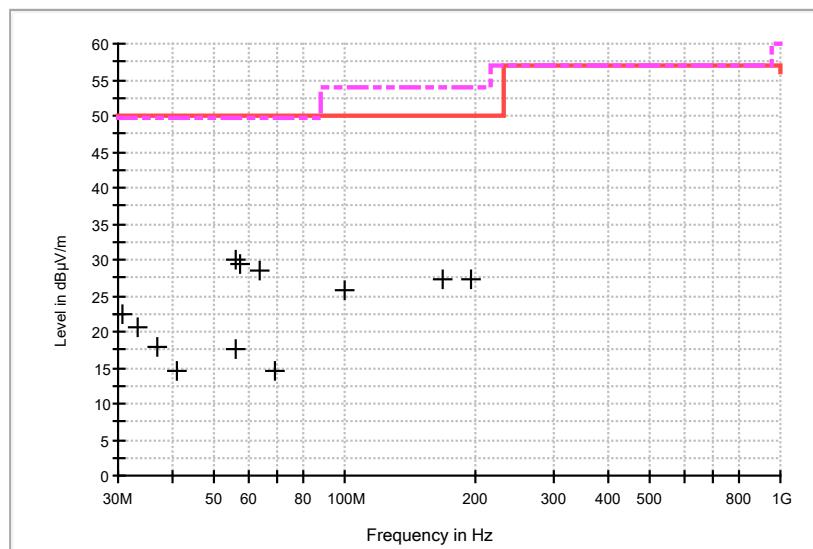


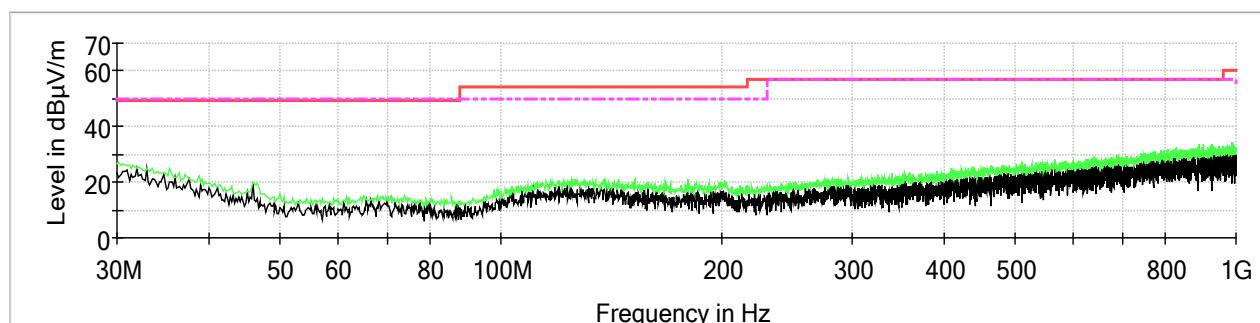
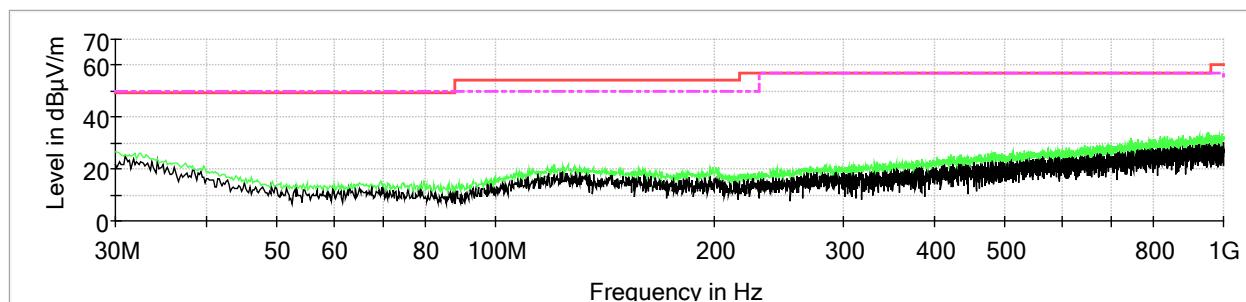
**AC Charging: Characterization Scan, 30 MHz to 1000 MHz, Vertical****AC Charging: Characterization Scan, 30 MHz to 1000 MHz, Horizontal**

## AC Charging: Measurements, 30 MHz to 1000 MHz

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
30.582000	22.5	120.000	250.0	H	0.0	-19.6	27.1	49.6
33.104000	20.7	120.000	250.0	H	319.0	-21.5	28.9	49.6
36.790000	17.8	120.000	250.0	H	151.0	-24.4	31.8	49.6
41.058000	14.5	120.000	250.0	H	11.0	-27.5	35.1	49.6
55.996000	29.9	120.000	150.0	V	352.0	-32.9	19.7	49.6
55.996000	17.5	120.000	250.0	H	327.0	-32.9	32.1	49.6
57.548000	29.3	120.000	100.0	V	10.0	-32.9	20.3	49.6
63.756000	28.3	120.000	100.0	V	352.0	-32.3	21.3	49.6
68.800000	14.6	120.000	250.0	H	160.0	-31.9	35.0	49.6
99.452000	25.7	120.000	100.0	V	16.0	-30.0	28.3	54.0
167.934000	27.4	120.000	100.0	V	326.0	-27.6	26.6	54.0
195.288000	27.3	120.000	100.0	V	6.0	-27.2	26.7	54.0

Note: The data represents results of all three channels.

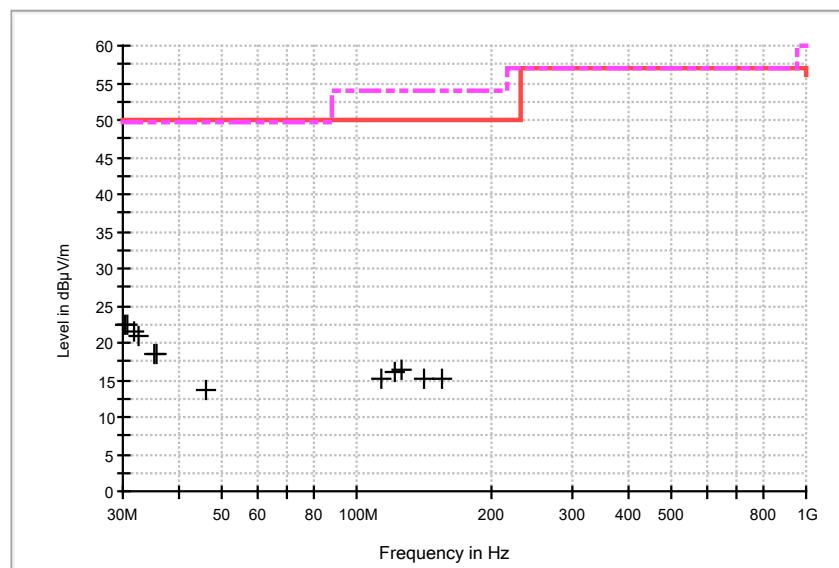


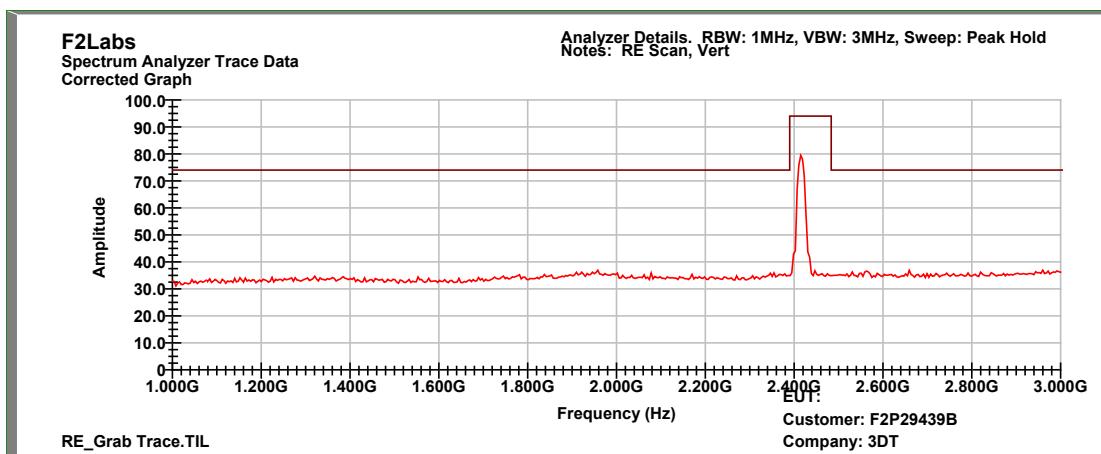
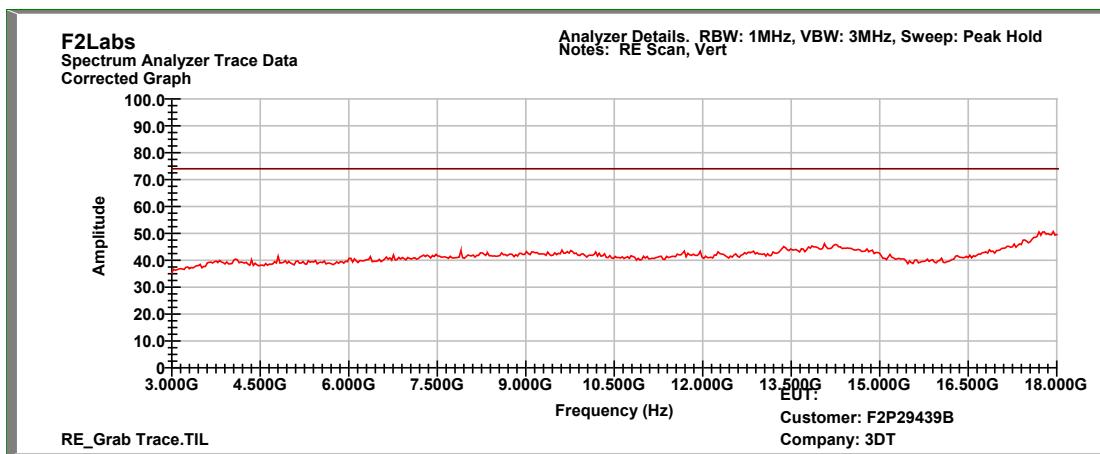
**Battery Mode: Characterization Scan, 30 MHz to 1000 MHz, Vertical****Battery Mode: Characterization Scan, 30 MHz to 1000 MHz, Horizontal**

## Battery Mode: Measurements, 30 MHz to 1000 MHz

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
30.388000	22.5	120.000	250.0	H	0.0	-19.4	27.1	49.6
30.582000	22.3	120.000	100.0	V	359.0	-19.6	27.3	49.6
31.746000	21.4	120.000	100.0	V	359.0	-20.5	28.2	49.6
32.522000	21.0	120.000	250.0	H	344.0	-21.1	28.6	49.6
35.432000	18.6	120.000	100.0	V	345.0	-23.3	31.0	49.6
35.626000	18.4	120.000	250.0	H	255.0	-23.4	31.2	49.6
45.908000	13.5	120.000	100.0	V	245.0	-30.6	36.1	49.6
112.838000	15.1	120.000	250.0	H	144.0	-26.9	38.9	54.0
121.180000	15.9	120.000	100.0	V	151.0	-26.0	38.1	54.0
125.642000	16.3	120.000	250.0	H	46.0	-25.9	37.7	54.0
140.192000	15.2	120.000	100.0	V	59.0	-26.6	38.8	54.0
153.578000	15.2	120.000	250.0	H	4.0	-27.0	38.8	54.0

Note: The data represents results of all three channels.



**Characterization Scan, 1 GHz to 3 GHz, Vertical****Characterization Scan, 3 GHz to 18 GHz, Vertical**

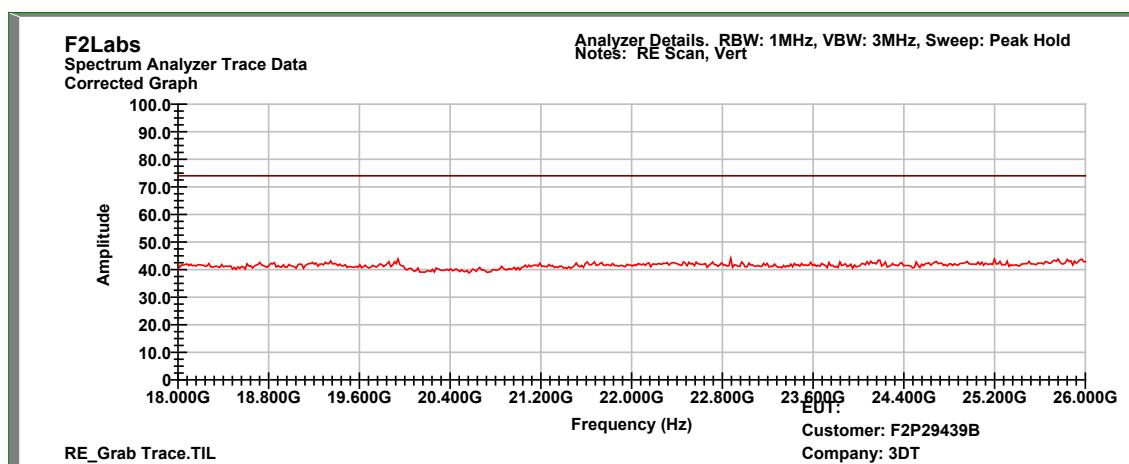


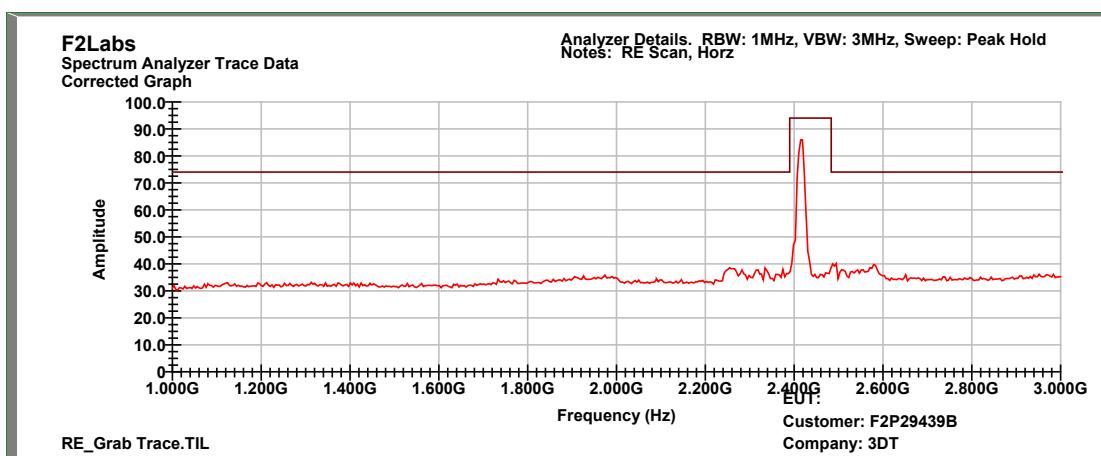
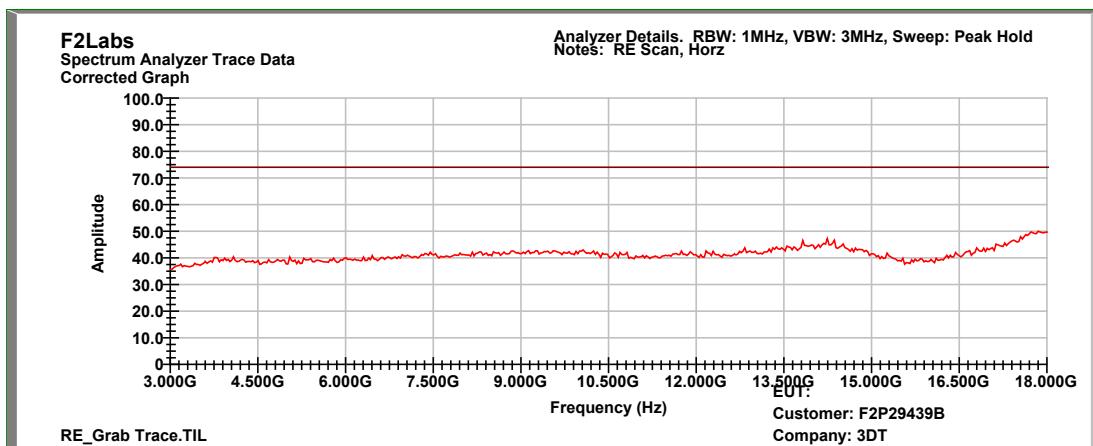
Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

## Characterization Scan, 18 GHz to 26 GHz, Vertical



**Characterization Scan, 1 GHz to 3 GHz, Horizontal****Characterization Scan, 3 GHz to 18 GHz, Horizontal**

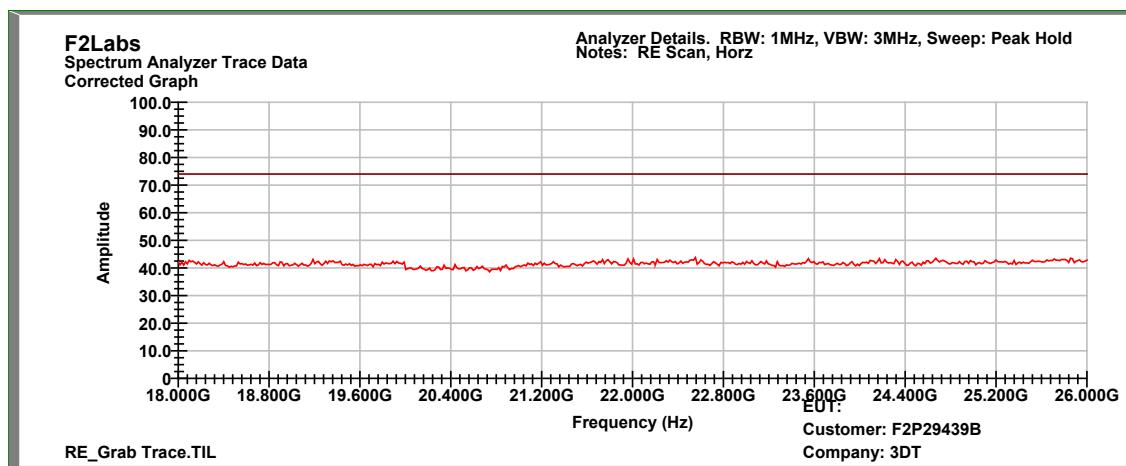


Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

## Characterization Scan, 18 GHz to 26 GHz, Horizontal





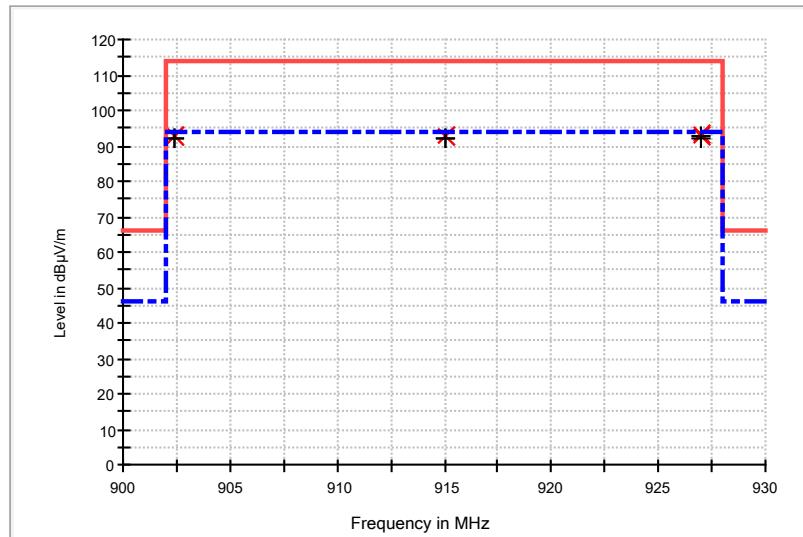
## 9 VOLTAGE VARIATIONS

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery. A nominal voltage of 110VAC was used and then 93VAC and 127VAC were used as the 85% and 115% variations.

**RESULTS:** The results showed that the fundamental frequency did not move outside the frequency band and the field strength did not increase above the limit during the variations.

Test Date:	2025-04-22	Test Engineer:	E. Tobin
Rule:	RSS GEN Part 6.11	Air Temperature:	21.2° C
Test Results:	Pass	Relative Humidity:	36%

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Voltage	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
902.400000	92.8	92.2	120.000	110.0	V	220.0	-13.6	+15%	1.8	94.0
902.400000	92.8	92.3	120.000	110.0	V	220.0	-13.6	-15%	1.7	94.0
915.000000	92.7	92.2	120.000	100.0	V	220.0	-13.3	+15%	1.8	94.0
915.000000	92.9	92.4	120.000	100.0	V	220.0	-13.3	-15%	1.6	94.0
927.000000	93.1	92.5	120.000	100.0	V	230.0	-12.9	-15%	1.5	94.0
927.000000	92.7	92.2	120.000	100.0	V	230.0	-12.9	+15%	1.8	94.0





## 10 CONDUCTED EMISSIONS

### 10.1 Requirements

In accordance with FCC CFR 47 Part 15.207(a), "Except as shown in paragraphs (b) and (c) of this section, 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 in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this 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 of the frequency ranges.

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

\*Decreases with the logarithm of the frequency.

### 10.2 Procedure

The EUT was placed on a 1.0 x 1.5 meter non-conductive table, 0.8 meter above a horizontal ground plane and 0.4 meter from a vertical ground plane. Power was provided to the EUT through a LISN bonded to a 3 x 2 meter ground plane. The LISN and peripherals were supplied power through a filtered AC power source. The output of the LISN was connected to the input of the receiver via a transient limiter, and emissions in the range 150 kHz to 30 MHz were measured. The measurements were recorded using the quasi-peak and average detectors as directed by the standard, and the resolution bandwidth during testing was 9 kHz. The raw measurements were corrected to allow for attenuation from the LISN, transient limiter and cables.



Order No(s): F2P29439B

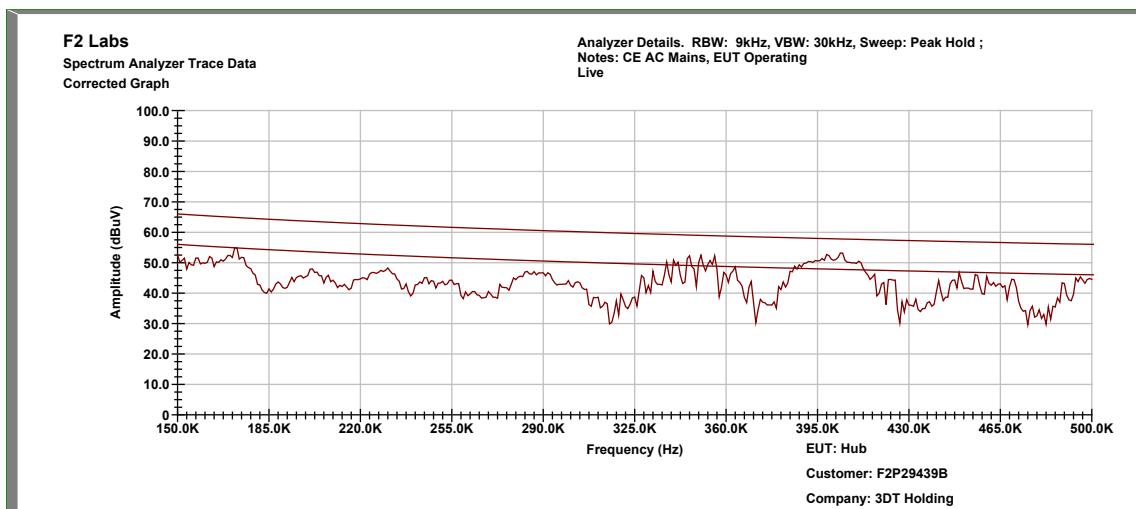
Applicant: GI Bionics LLC

Model: DH-100

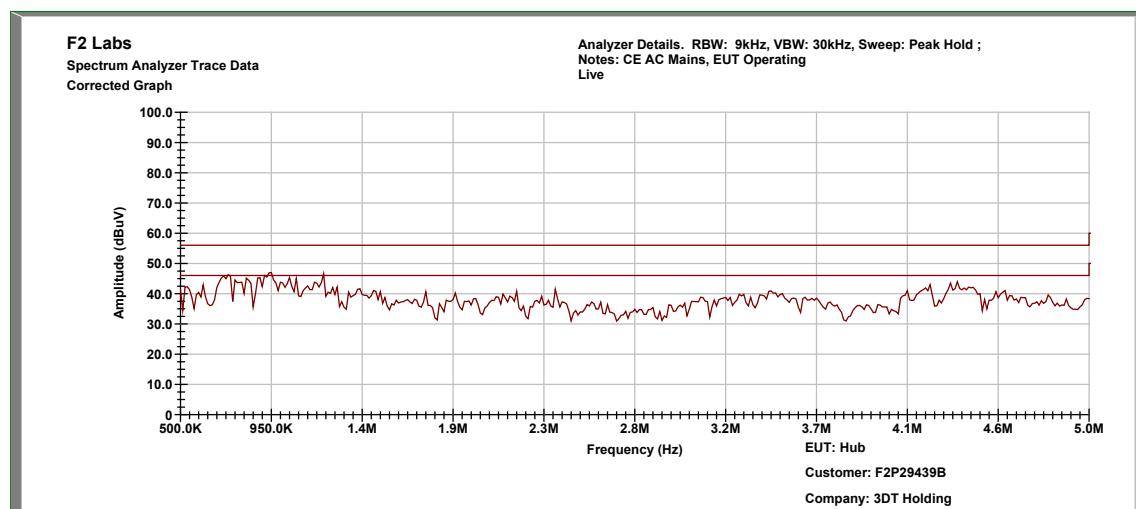
### 10.3 Conducted Emissions Test Data

Test Date(s):	2023-12-12 ; 2025-04-03	Test Engineer:	J. Chiller ; E. Tobin
Rule:	15.207	Air Temperature:	20.1° C
Test Results:	Complies	Relative Humidity:	43%

#### Conducted Test – Live: 0.15 MHz to 0.5 MHz



#### Conducted Test – Live: 0.5 MHz to 5.0 MHz



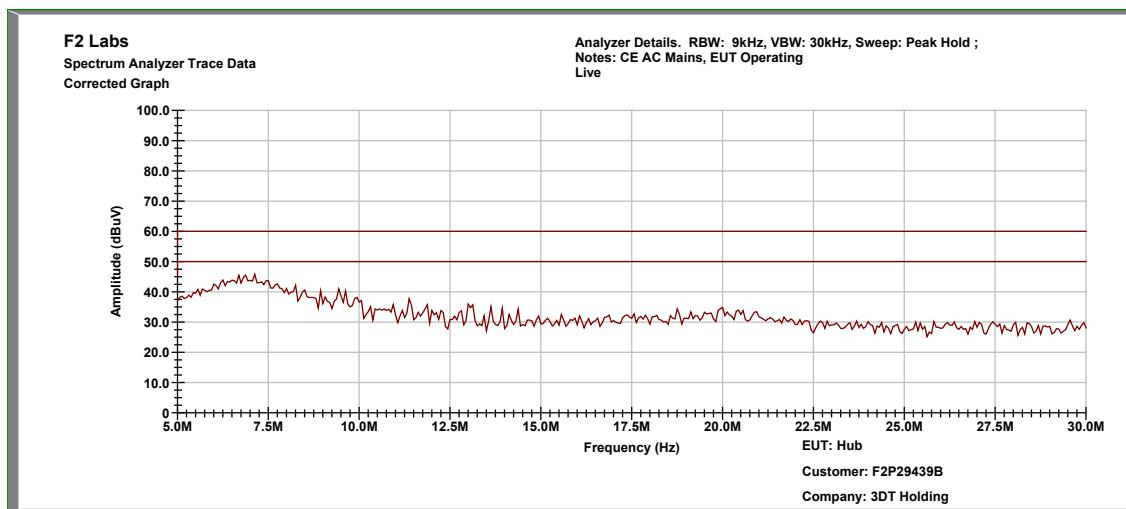


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## Conducted Test – Live: 5.0 MHz to 30.0 MHz



Top Discrete Measurements									
No.	Conductor	Frequency (MHz)	Detector	Level (dB $\mu$ V)	Adjustment (dB)	Results (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	
1	Live	0.341	Quasi-Peak	38.57	10.065	48.64	59.164	-10.5	
			Average	29.55	10.065	39.62	49.164	-9.5	
2	Live	0.351	Quasi-Peak	38.18	10.059	48.24	58.934	-10.7	
			Average	28.77	10.059	38.83	48.934	-10.1	
3	Live	0.397	Quasi-Peak	35.94	10.031	45.97	57.903	-11.9	
			Average	26.77	10.031	36.80	47.903	-11.1	
4	Live	0.437	Quasi-Peak	34.33	10.019	44.35	57.119	-12.8	
			Average	21.01	10.019	31.03	47.119	-16.1	
5	Live	0.446	Quasi-Peak	34.51	10.016	44.53	56.938	-12.4	
			Average	23.38	10.016	33.40	46.938	-13.5	
6	Live	0.499	Quasi-Peak	33.78	10.0	43.78	56.015	-12.2	
			Average	21.34	10.0	31.34	46.015	-14.7	
7	Live	0.545	Quasi-Peak	34.59	9.977	44.57	56.0	-11.4	
			Average	22.58	9.977	32.56	46.0	-13.4	
8	Live	0.781	Quasi-Peak	32.79	9.919	42.71	56.0	-13.3	
			Average	22.98	9.919	32.90	46.0	-13.1	
9	Live	0.882	Quasi-Peak	31.79	9.910	41.70	56.0	-14.3	
			Average	22.98	9.910	32.89	46.0	-13.1	
10	Live	1.07	Quasi-Peak	31.18	9.924	41.10	56.0	-14.9	
			Average	20.52	9.924	30.44	46.0	-15.6	

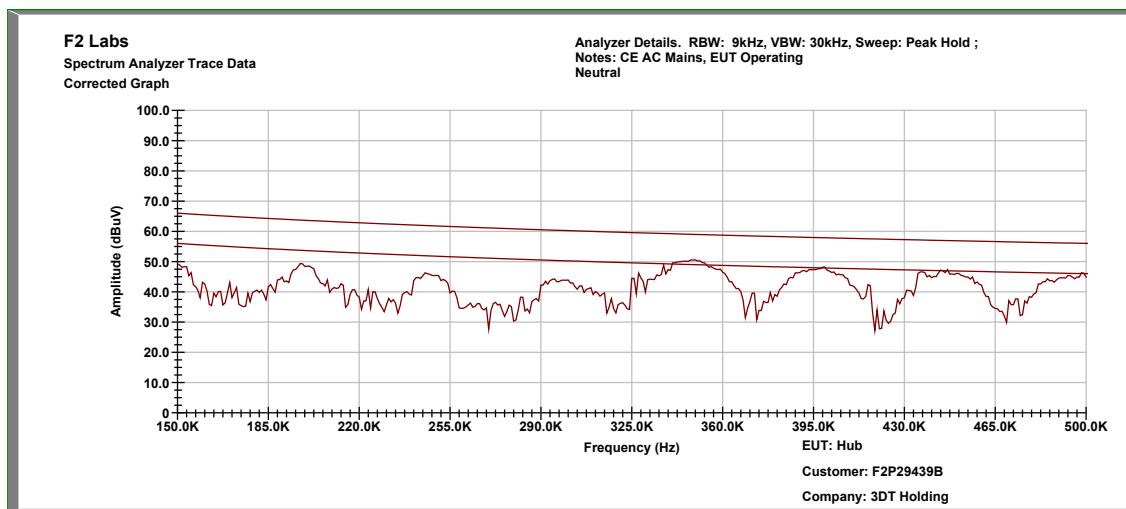


Order No(s): F2P29439B

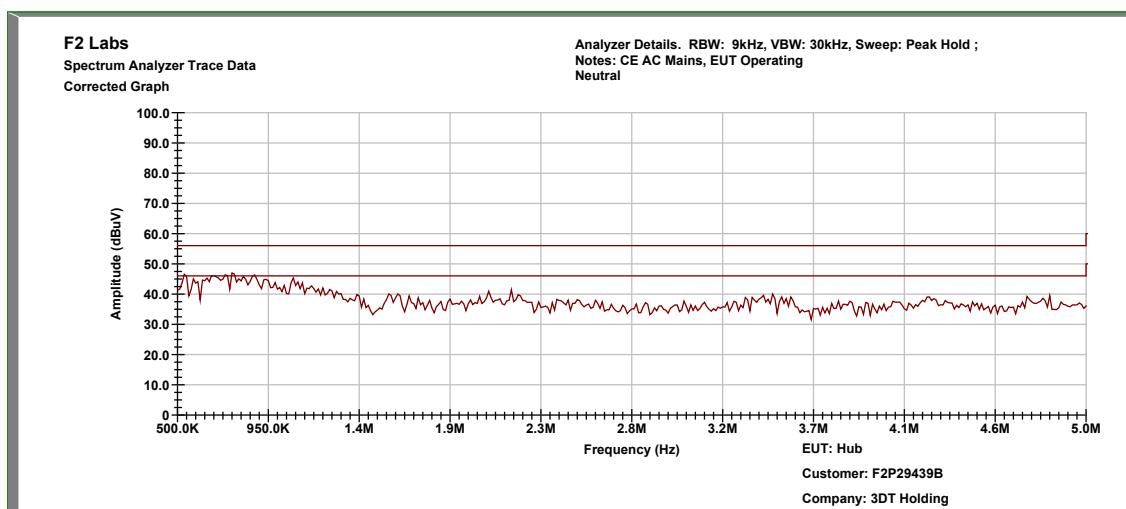
Applicant: GI Bionics LLC

Model: DH-100

### Conducted Test – Neutral: 0.15 MHz to 0.5 MHz



### Conducted Test – Neutral: 0.5 MHz to 5.0 MHz



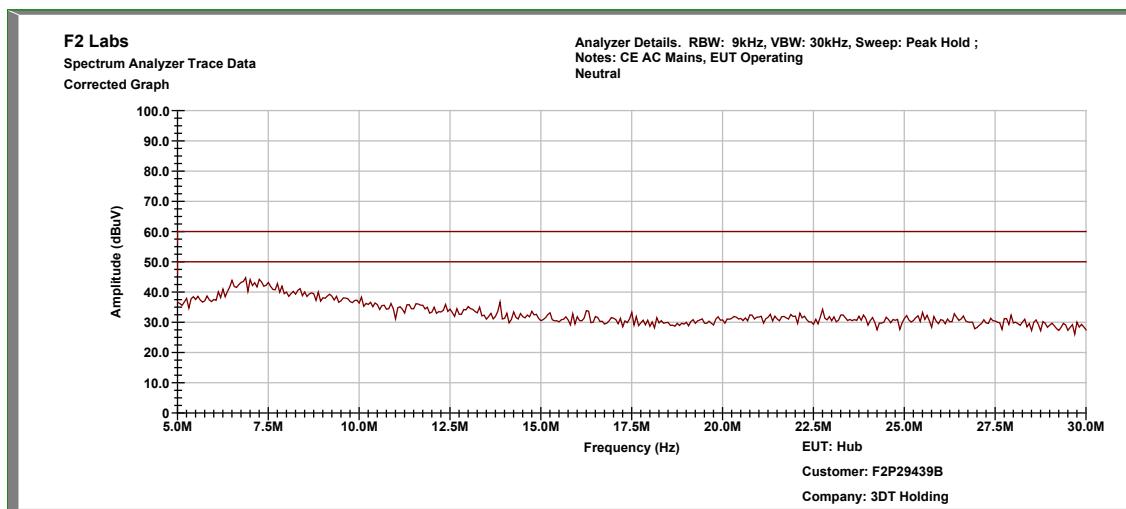


Order No(s): F2P29439B

Applicant: GI Bionics LLC

Model: DH-100

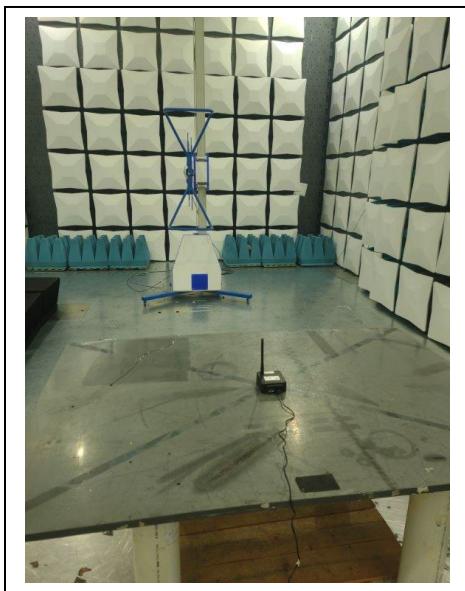
## Conducted Test – Neutral: 5.0 MHz to 30.0 MHz



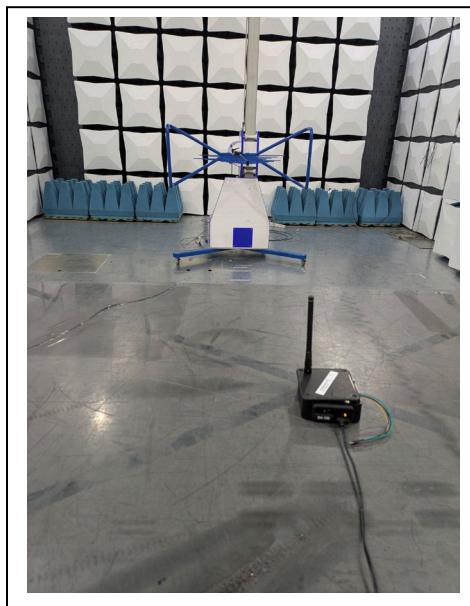
Top Discrete Measurements								
No.	Conductor	Frequency (MHz)	Detector	Level (dB $\mu$ V)	Adjustment (dB)	Results (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
1	Neutral	0.172	Quasi-Peak	20.73	10.807	31.54	64.83	-33.3
			Average	18.26	10.807	29.07	54.83	-25.8
2	Neutral	0.346	Quasi-Peak	33.90	10.062	43.96	59.06	-15.1
			Average	24.47	10.062	34.53	49.06	-14.5
3	Neutral	0.355	Quasi-Peak	33.94	10.057	44.00	58.85	-14.8
			Average	12.82	10.057	22.88	48.85	-26.0
4	Neutral	0.400	Quasi-Peak	38.61	10.030	48.64	57.87	-9.2
			Average	25.81	10.030	35.84	47.87	-12.0
5	Neutral	0.404	Quasi-Peak	37.17	10.030	47.20	57.76	-10.6
			Average	26.16	10.030	36.19	47.76	-11.6
6	Neutral	0.450	Quasi-Peak	27.13	10.025	37.16	56.87	-19.7
			Average	19.09	10.025	29.12	46.87	-17.8
7	Neutral	0.736	Quasi-Peak	32.55	9.942	42.49	56.00	-13.5
			Average	19.41	9.942	29.35	46.00	-16.6
8	Neutral	0.950	Quasi-Peak	31.89	9.920	41.81	56.0	-14.2
			Average	20.24	9.920	30.16	46.0	-15.8
9	Neutral	1.20	Quasi-Peak	30.13	9.922	40.05	56.0	-15.9
			Average	17.47	9.922	27.39	46.0	-18.6

## 11 PHOTOGRAPHS – TEST SETUPS

### Occupied Bandwidth, Field Strength of Emissions; Radiated Spurious, 30 MHz to 1000 MHz



Field Strength, Band Edge (testing conducted Apr. 3, 2025)





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### Radiated Spurious, Less Than 30 MHz



**Radiated Spurious, 1 GHz to 18 GHz****Radiated Spurious, 18 GHz to 26 GHz**



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### Voltage Variations

