

Note:**1 Alert**

High Ventricular Rate Detected

BatteryVoltage: **2.78 V**

ERI (2.5 V)
Magnet Rate
98.5 bpm
Current
14 µA

Remaining Longevity:

2.25 - 3 years

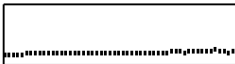
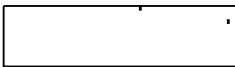
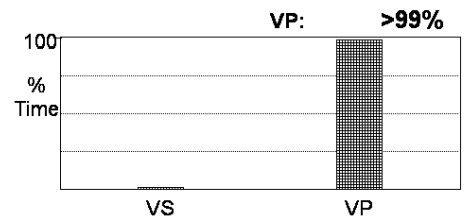
Impedance
2.2 kΩ

Current Parameters

Mode **VVIR**
Base Rate **60 bpm**
V
Pulse Amplitude (V) **1.250 A**
Pulse Width (ms) **0.4**
Sensitivity (mV) **2.0**

Episodes

New EGMs **4**
Total Episodes **4**

Test Results (Last Session: Apr 8, 2022)**Ventricle****Capture**Today: **1.0 V @ 0.4 ms (Uni) A****Sense**May 25: **8.6 -> 9.4 mV (Bi) A****Lead Impedance**Today: **329 Ω (Uni) A****Events****Initial Parameters**

Diagnostics Read

Basic Operation

Mode	VVIR	Sensor	On
Magnet Response	Battery Test	Threshold	Auto (+0.0)
		Measured Avg	2.6
		Slope	Auto (+2)
		Measured Auto	15
		Max Sensor Rate	130 bpm
		Reaction Time	Fast
		Recovery Time	Medium

Rates

Base Rate	60 bpm	Hysteresis Rate	50 bpm
Rest Rate	50 bpm	Search Interval	Off
Max Sensor Rate	130 bpm	Cycle Count	1
		Intervention Rate	Off

Capture & Sense

V. AutoCapture	A n/a	V On
Backup Pulse Config		Bipolar
Search Frequency		8 Hours
Pulse Amplitude		1.250 A
Pulse Width		0.4 ms
Amplitude Monitoring		On
Sensitivity		2.0

Leads

Lead Type	A Uni/Bi	V Uni/Bi
Pulse Config		Unipolar
Sense Config		Bipolar
Lead Monitoring		Monitor
Lower Limit		200 Ω
Upper Limit		2000 Ω

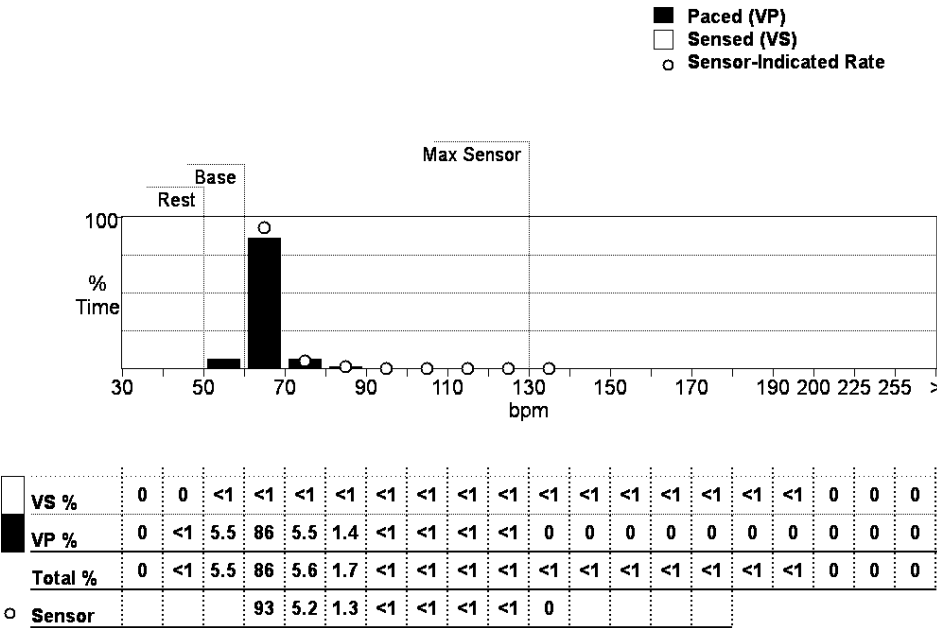
Refractories & Blanking

Ventricular Refractory	250 ms
Rate Resp. V. Refr.	Low
Shortest Ventricular Refractory	170 ms

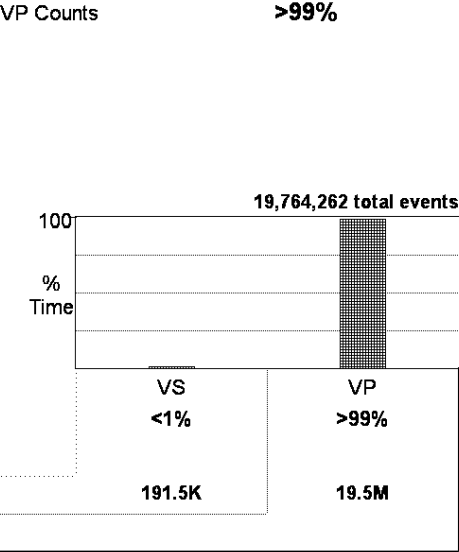
Patient Data

Patient Name
Patient ID
Implant Date **May 15, 2015**
A LEAD: MODEL SN:
MANUFACT: DATE: / /
V LEAD: MODEL SN:
MANUFACT: DATE: / /
ADAPTOR:
OTHER:

Heart Rate Histogram



Events



>225d 3h 35m 54s Sampled since (Frozen)*

*Sensor-Indicated Rate (Frozen)

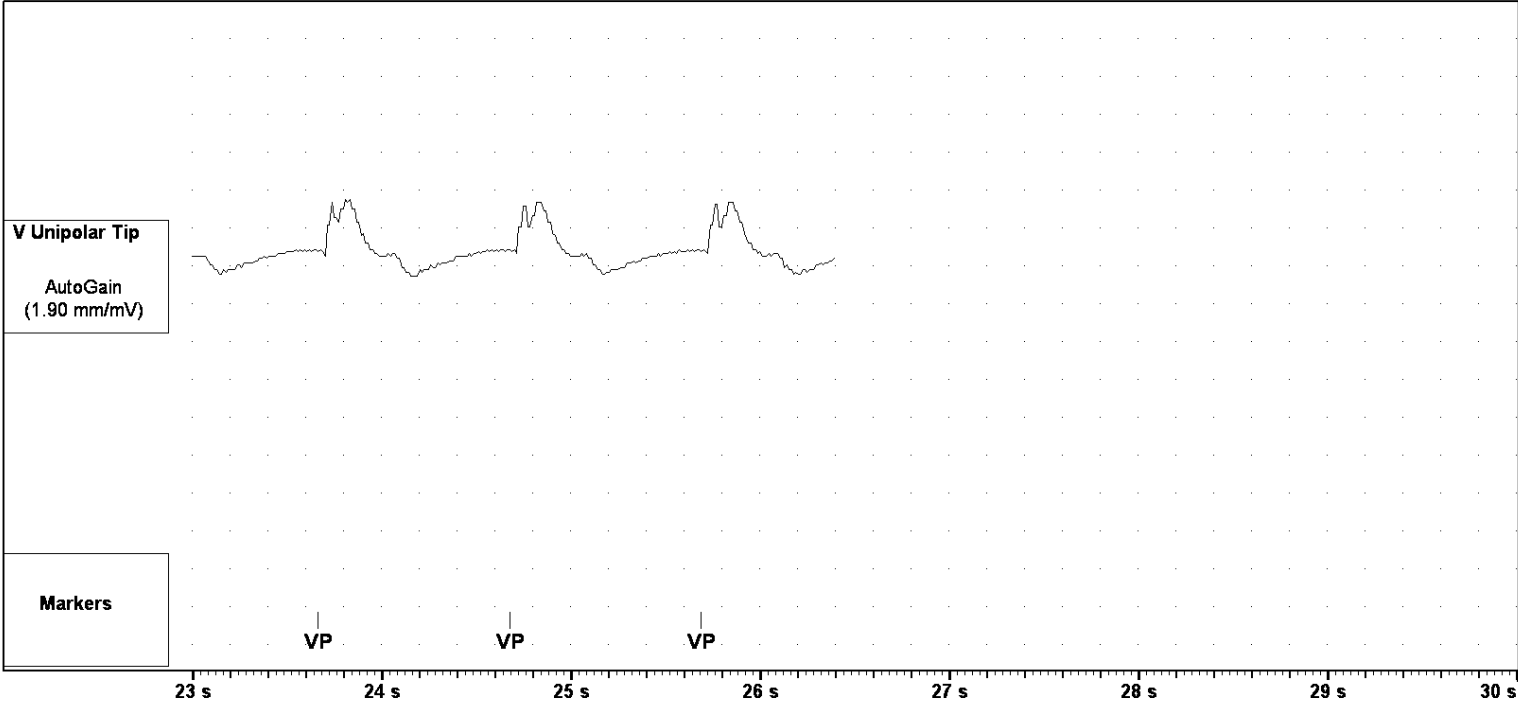
>225d 3h 35m 54s Sampled since (Frozen)

AMS Summary

AMS Histograms are not supported in VVIR Mode.

Freeze Capture

④ May 27, 2022 9:26 am (Sweep Speed: 25 mm/s)



Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		

A (Sweep Speed: 0 mm/s)

Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		

Trigger Counts

Trigger	Count	EGMs
High Ventricular Rate	4	4
150 bpm		
5 consecutive cycles		

Episode Directory

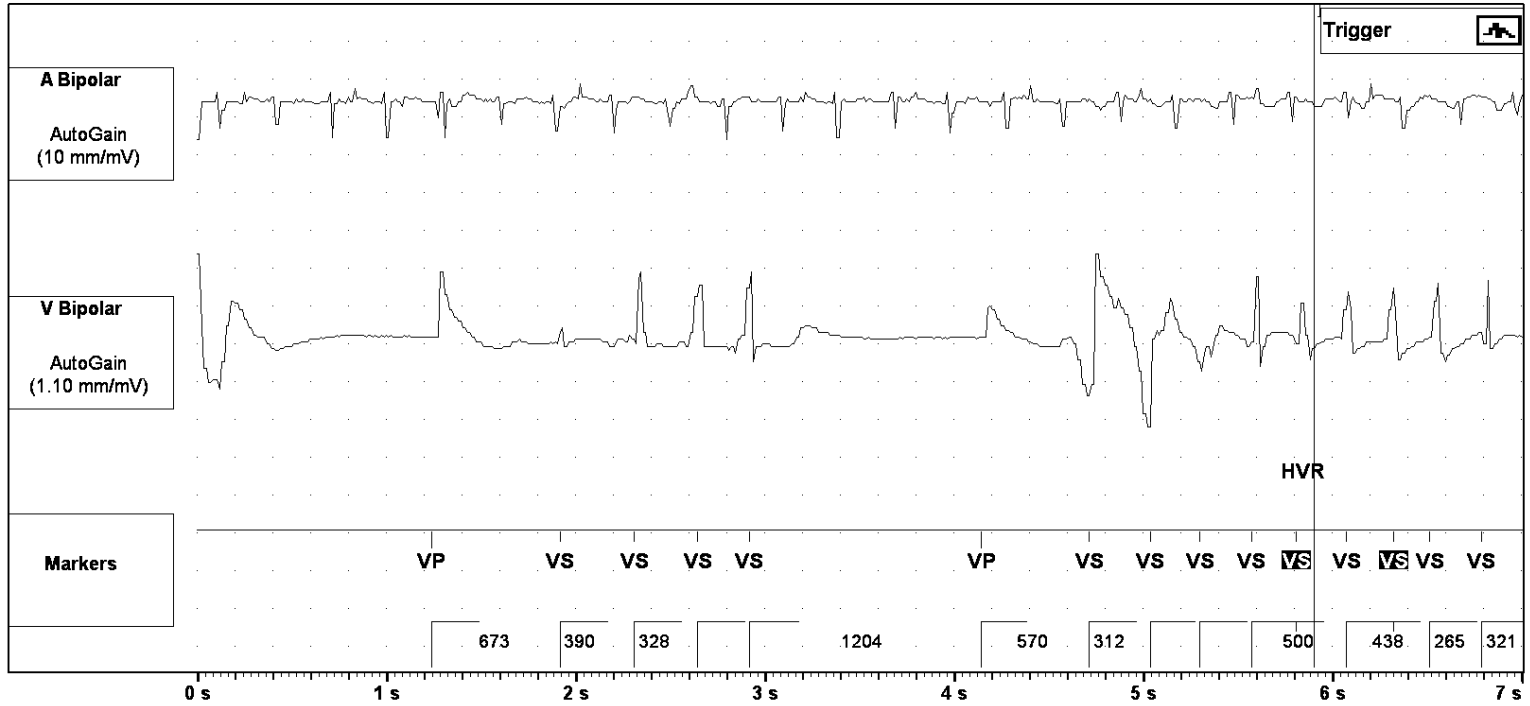
Date	Time	Type
May 25, 2022	8:57pm	High Ventricular Rate
May 25, 2022	8:47pm	High Ventricular Rate
May 25, 2022	8:45pm	High Ventricular Rate
May 25, 2022	8:41pm	High Ventricular Rate

Stored EGM Configuration

Sampling Option	Freeze
Number of Stored Episodes	4
Channel	Dual
A. EGM Configuration	A Bipolar
A. EGM Recording Range	± 3.0 mV
V. EGM Configuration	V Bipolar
V. EGM Recording Range	± 15.0 mV
EGM Configuration	n/a
EGM Recording Range	n/a

High Ventricular Rate May 25, 2022 8:57 pm
Mode VVIR

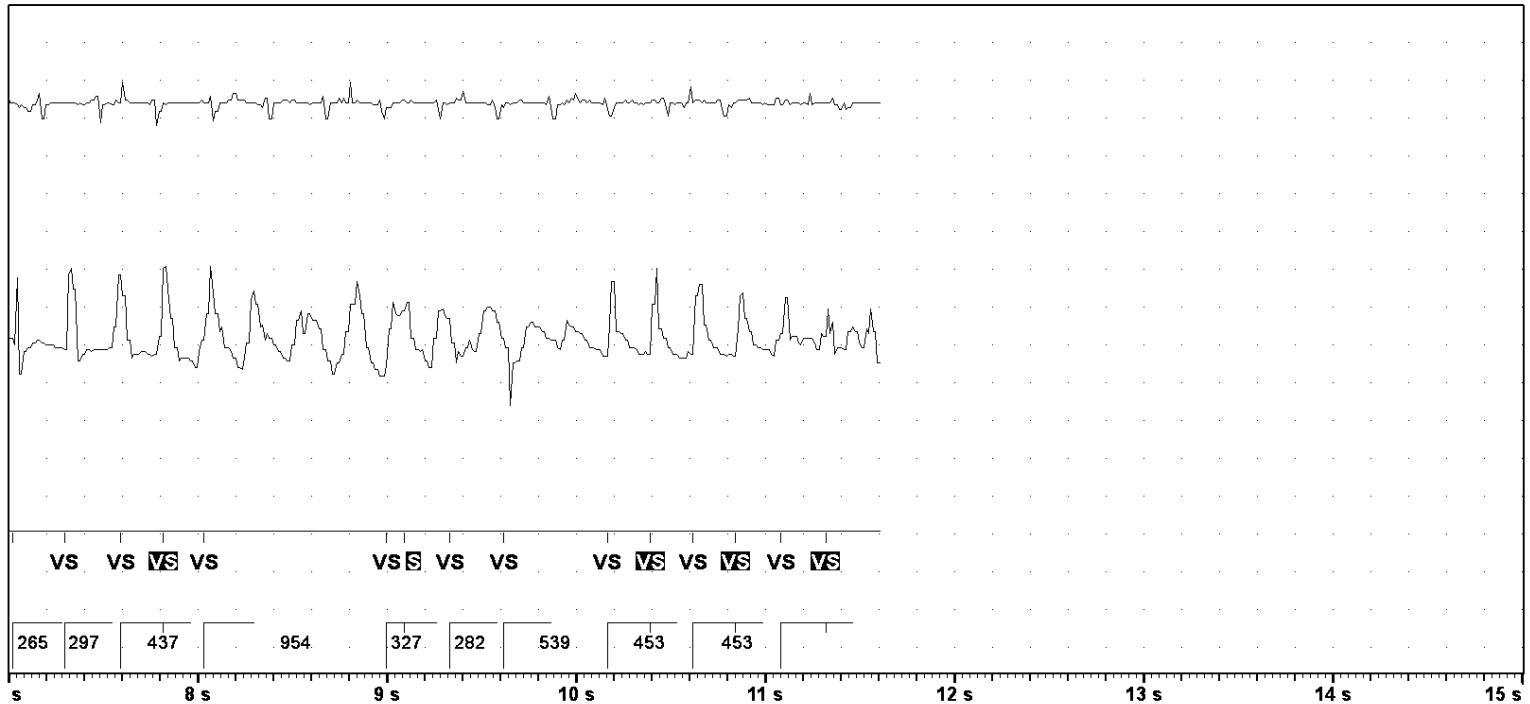
Episode 4 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:57 pm

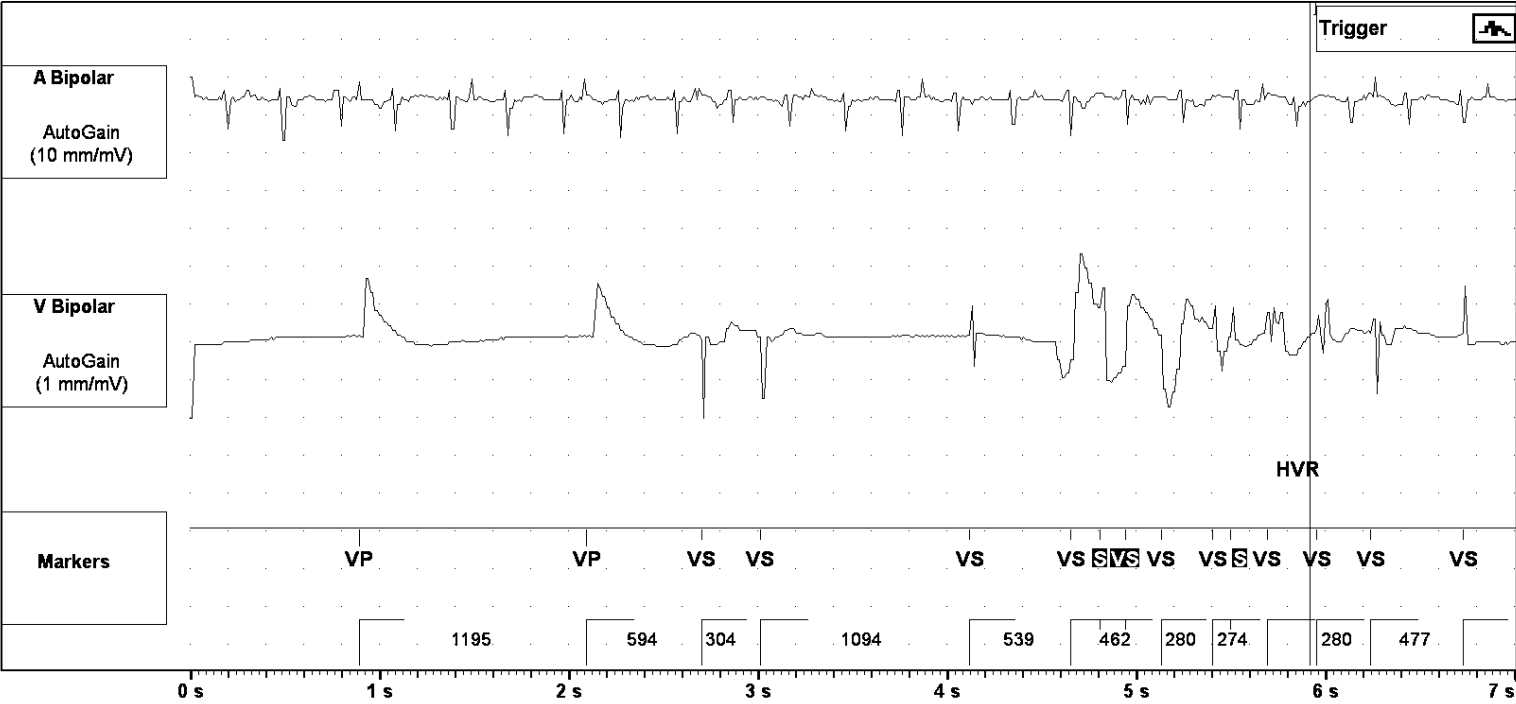
Episode 4 of 4



Sweep Speed: 25 mm/s

High Ventricular Rate May 25, 2022 8:47 pm
Mode VVIR

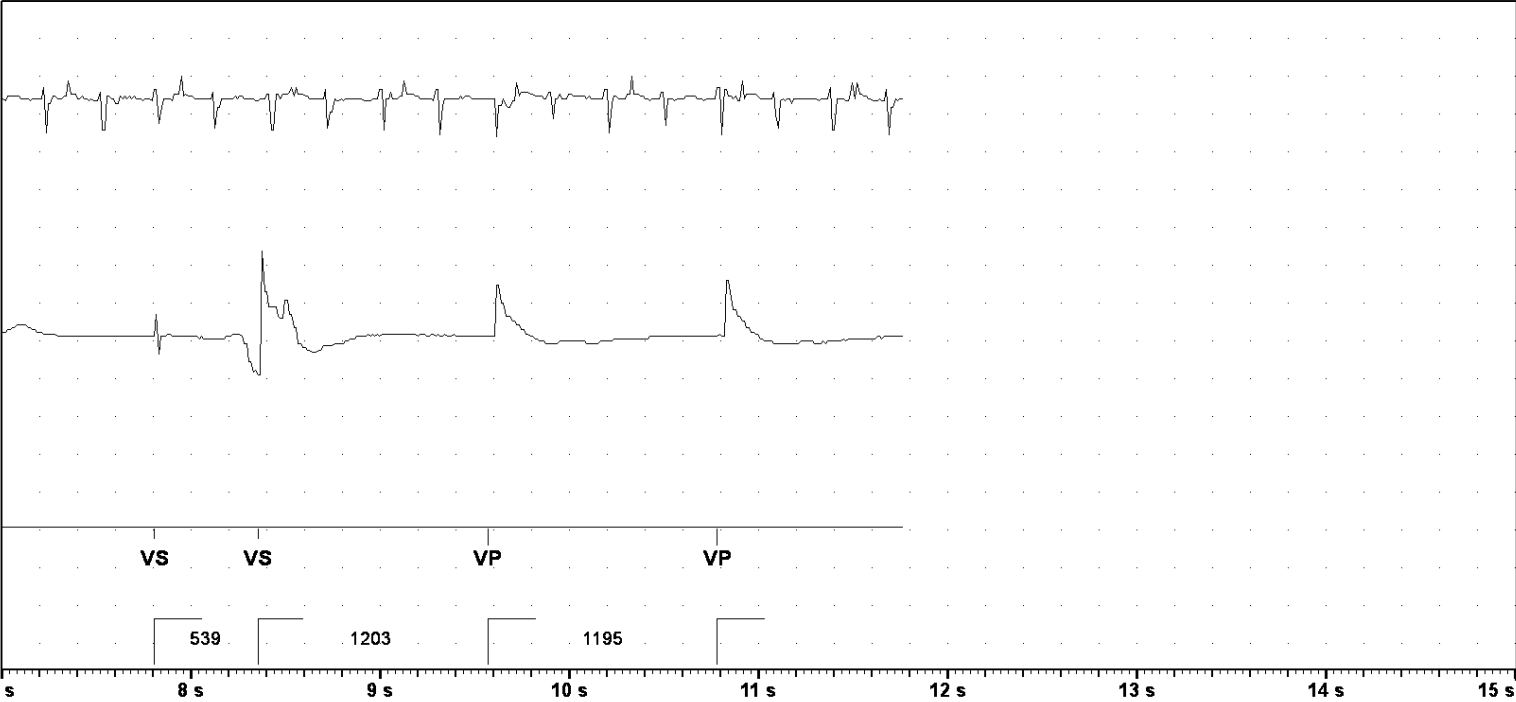
Episode 3 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:47 pm

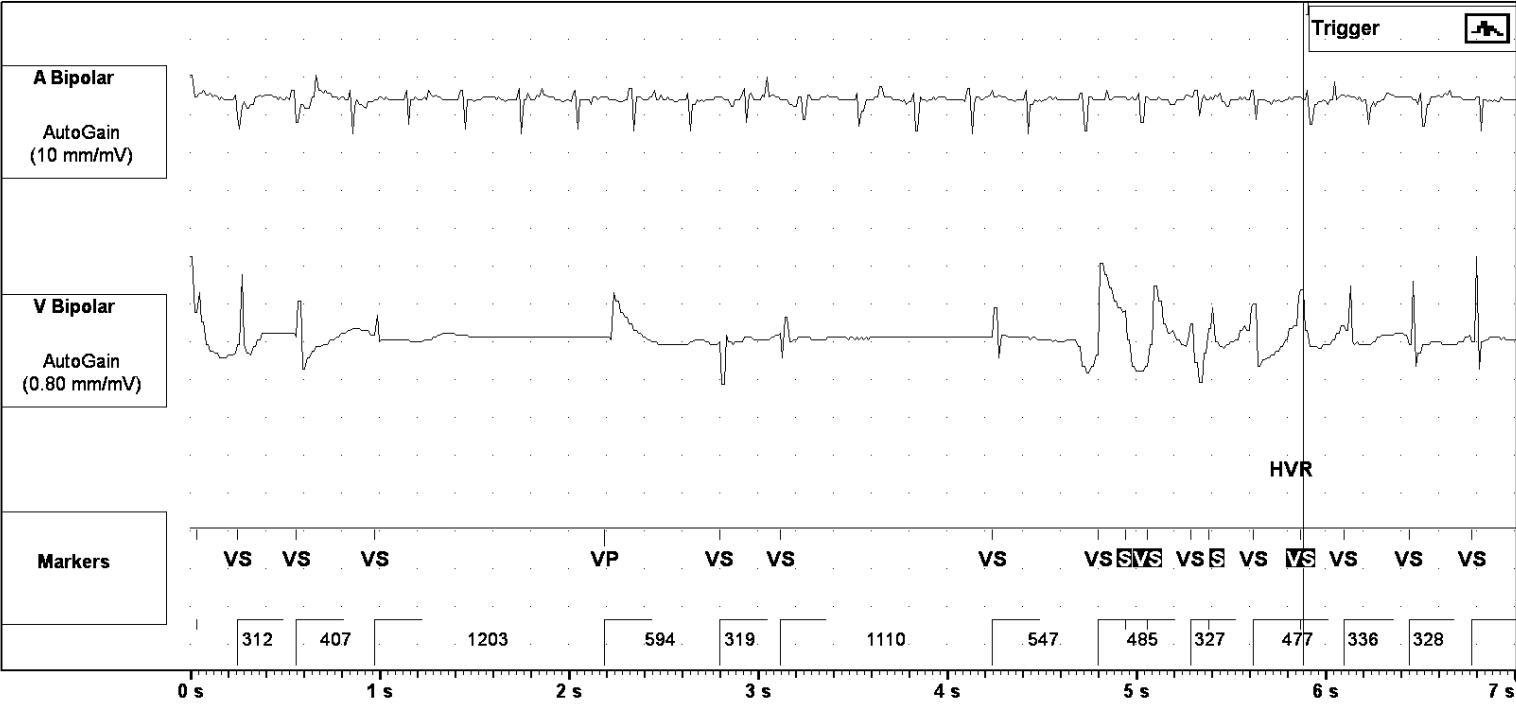
Episode 3 of 4



Sweep Speed: 25 mm/s

High Ventricular Rate May 25, 2022 8:45 pm
Mode VVIR

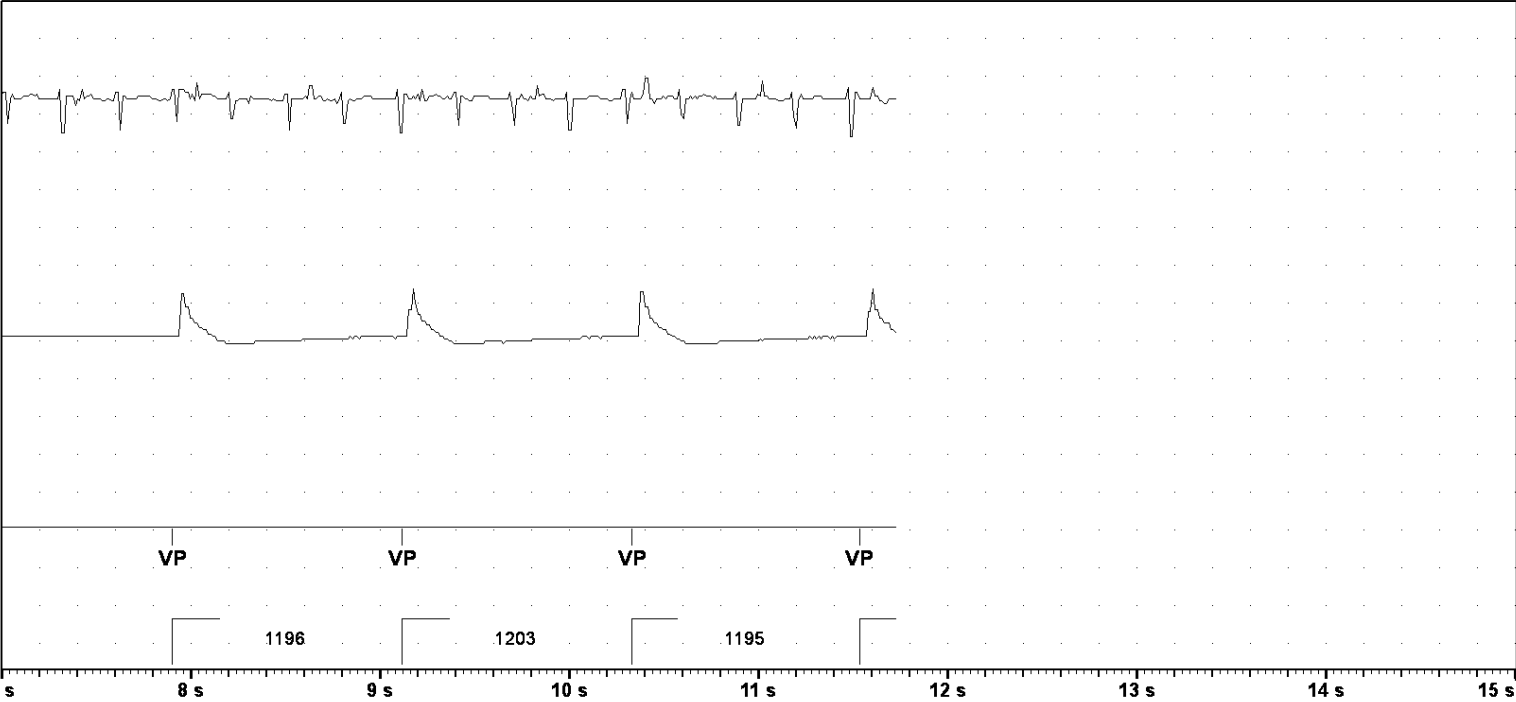
Episode 2 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:45 pm

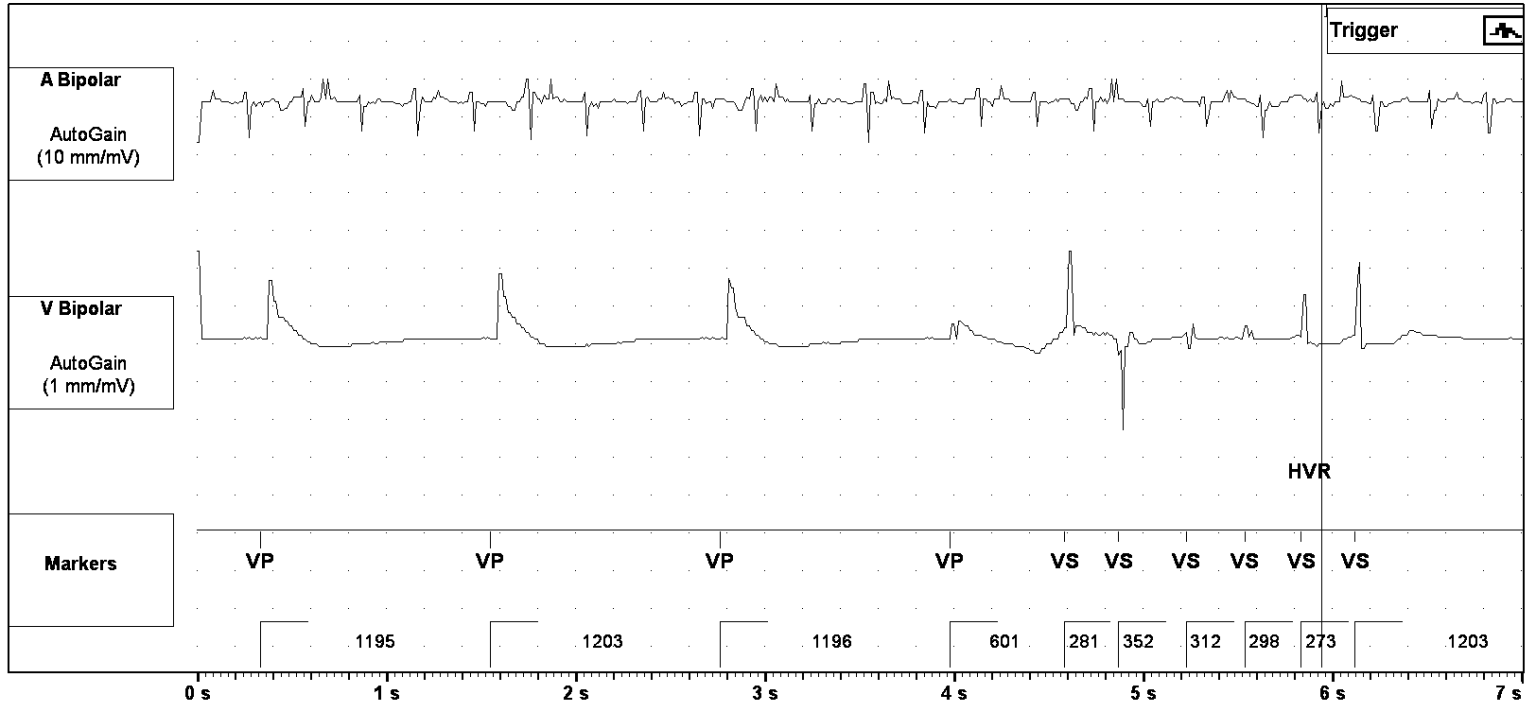
Episode 2 of 4



Sweep Speed: 25 mm/s

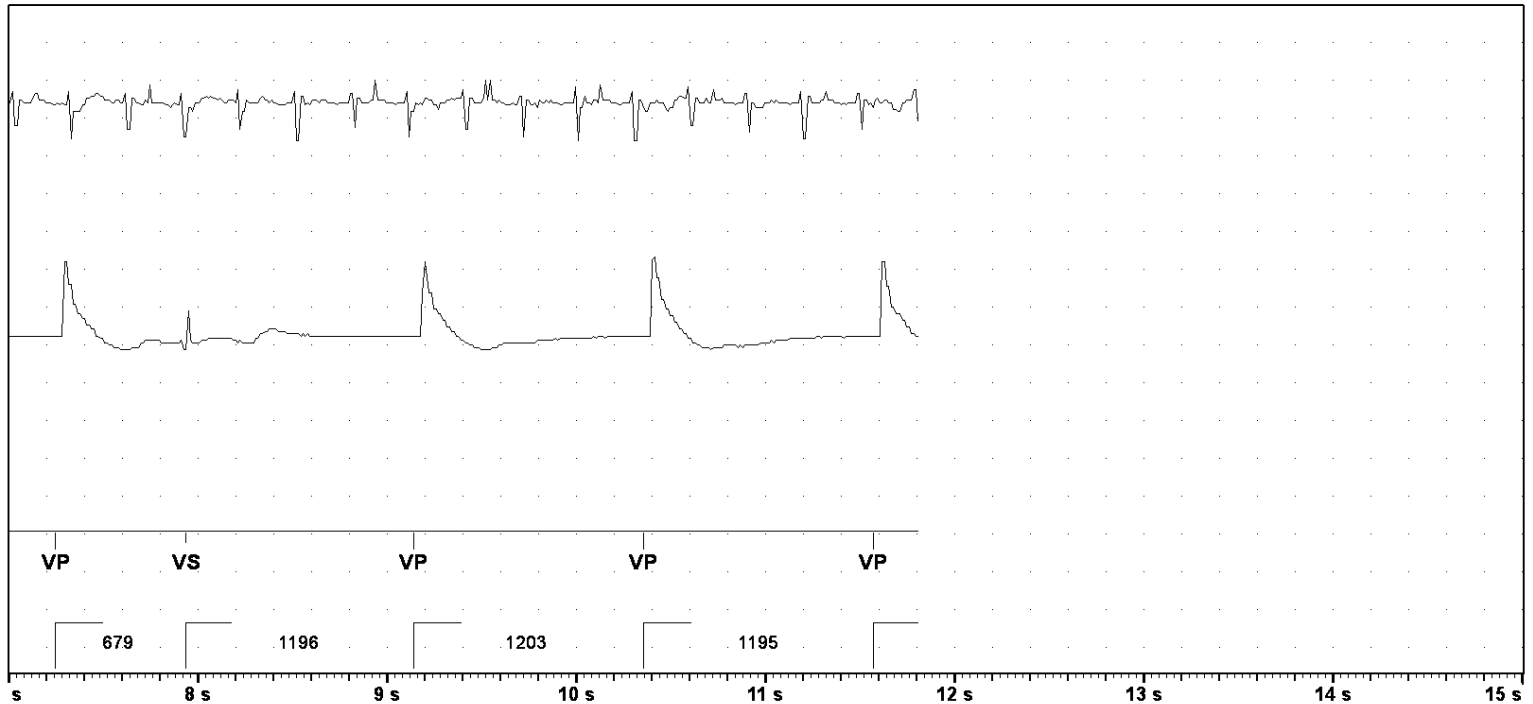
High Ventricular Rate May 25, 2022 8:41 pm
Mode VVIR

Episode 1 of 4



(Continued) High Ventricular Rate May 25, 2022 8:41 pm

Episode 1 of 4

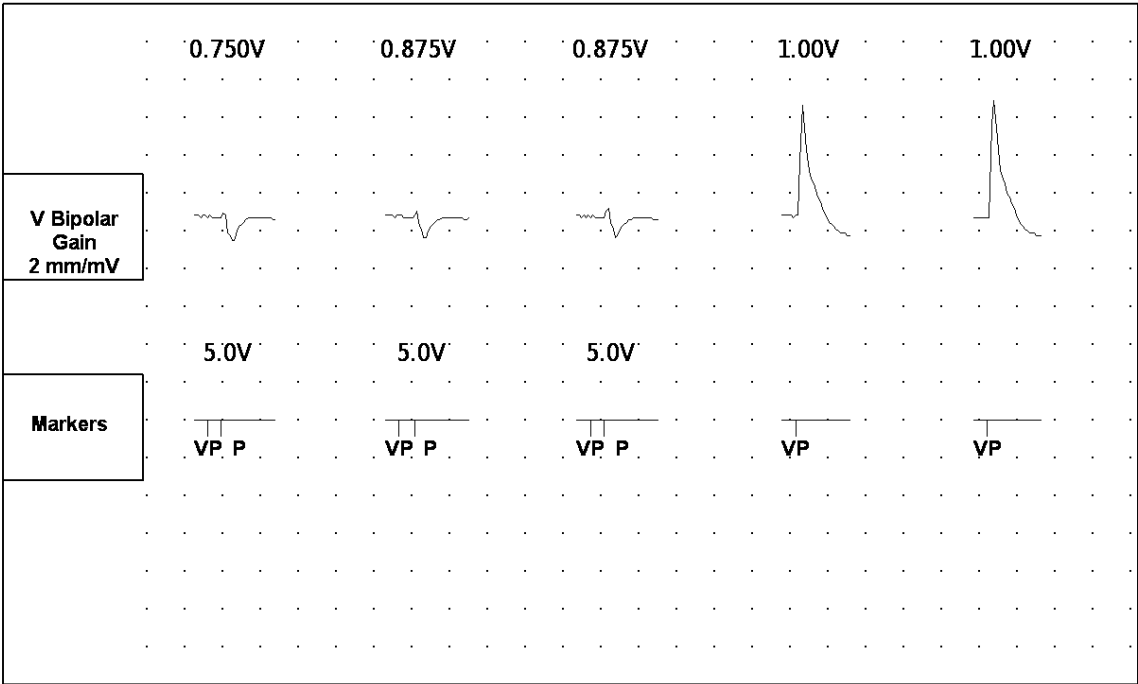


Today: 1.0 V @ 0.4 ms(Uni) A

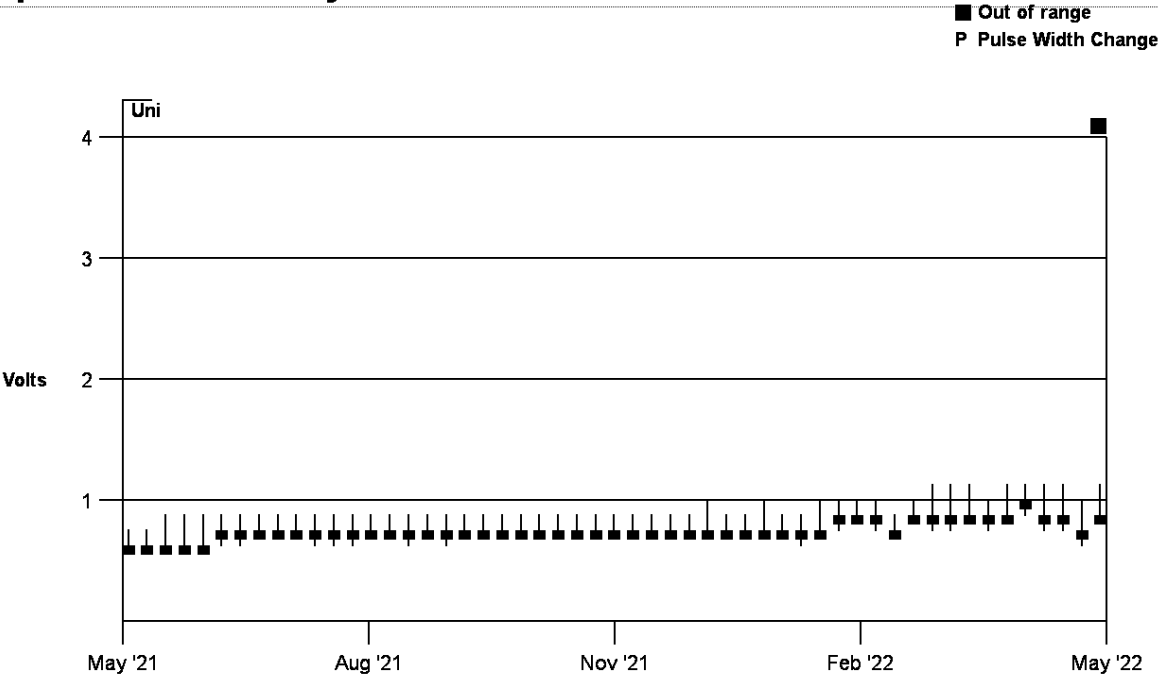
Last Session: 1.0 V @ 0.4 ms (Uni)

First Measurement(May 18, 2015) : 0.50 V @ 0.4ms (Uni)

Today (Sweep Speed: 25 mm/s)



V. AutoCapture Trend (weekly)

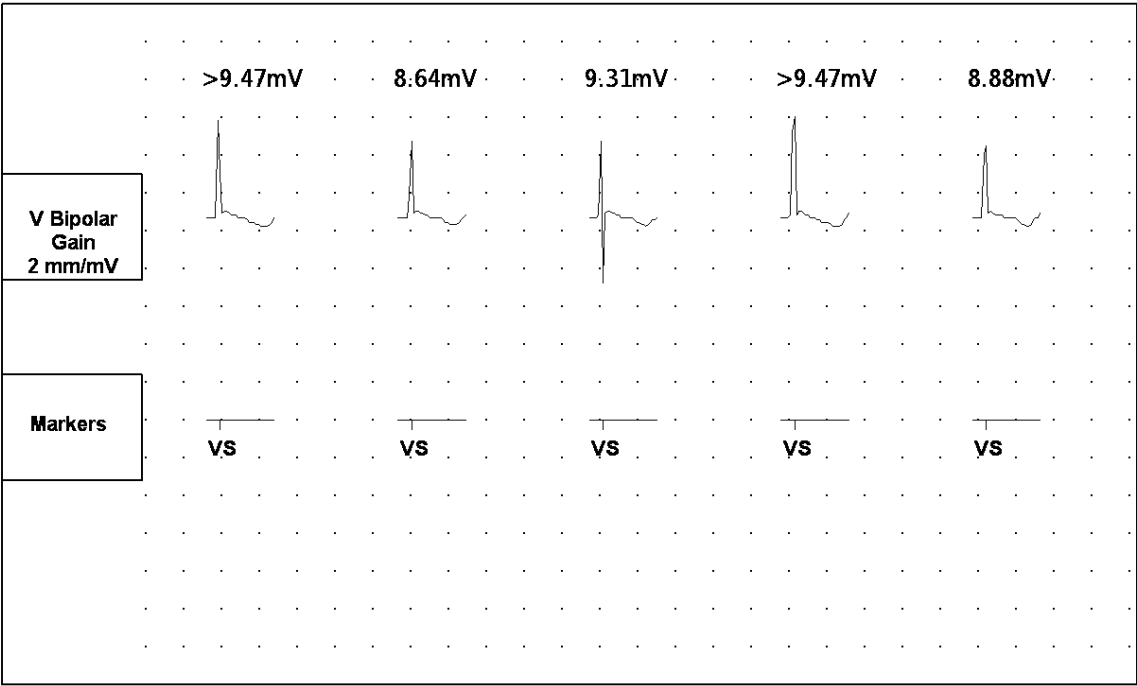


May 25, 2022: **8.6 - > 9.4** mV (Bi) **A**

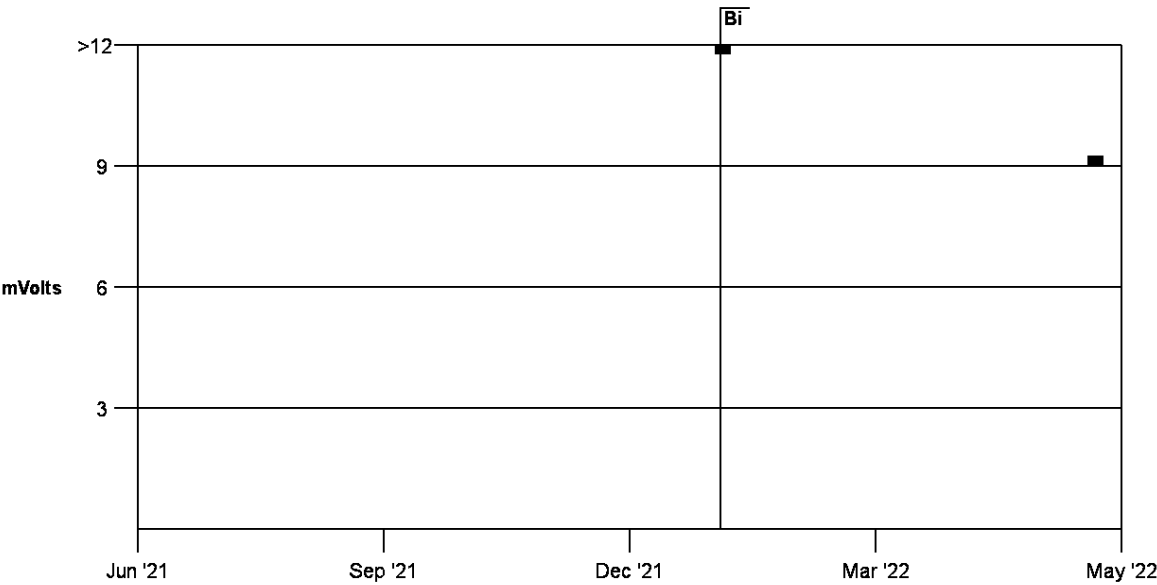
Safety Margin: 4.3 : 1 @ 2.0 mV

May 25, 2020 : > 12.0 mV (Bi)

May 25, 2022 5:50 am (Sweep Speed: 25 mm/s)



Ventricular Amplitude Trend (weekly)



Test Results

Battery

Voltage: 2.78 V



ERI (2.5 V)

Remaining Longevity	2.25 - 3 years
Magnet Rate	98.5 bpm
Current	14 μ A
Impedance	2.2 k Ω

Ventricular Lead Impedance

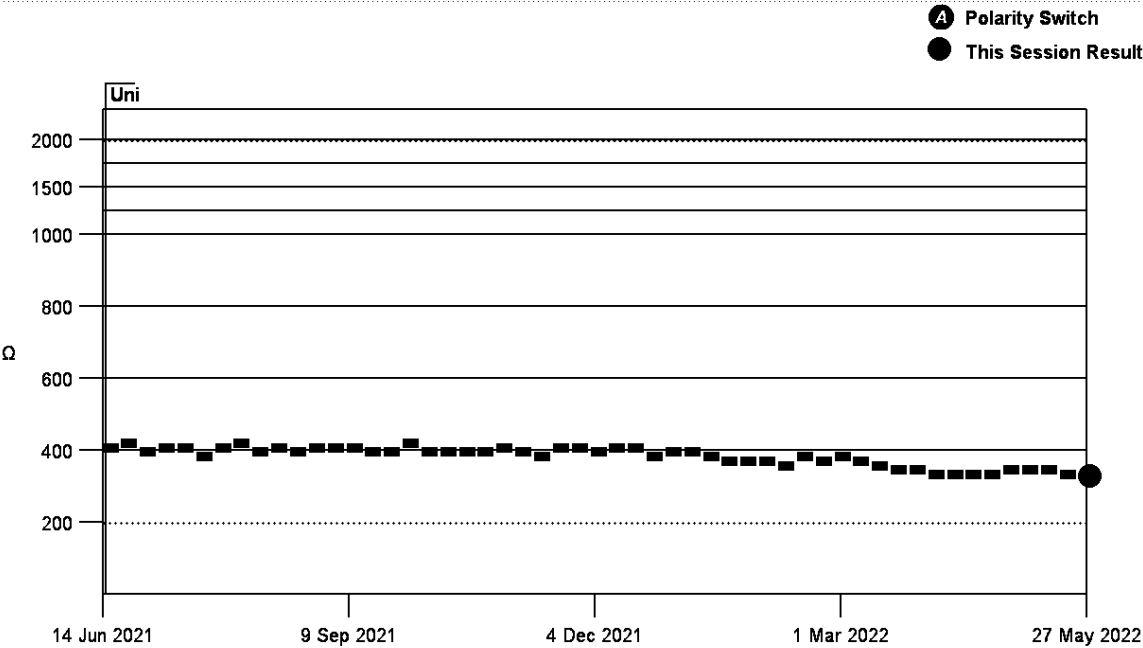
Impedance: **329** Ω

(Uni)

Last Session 353 Ω (Uni)
First Measurement 779 Ω (Bi)
Lifetime Range (Bi) 558 - 845 Ω *
Lifetime Range (Uni) 321 - 463 Ω *

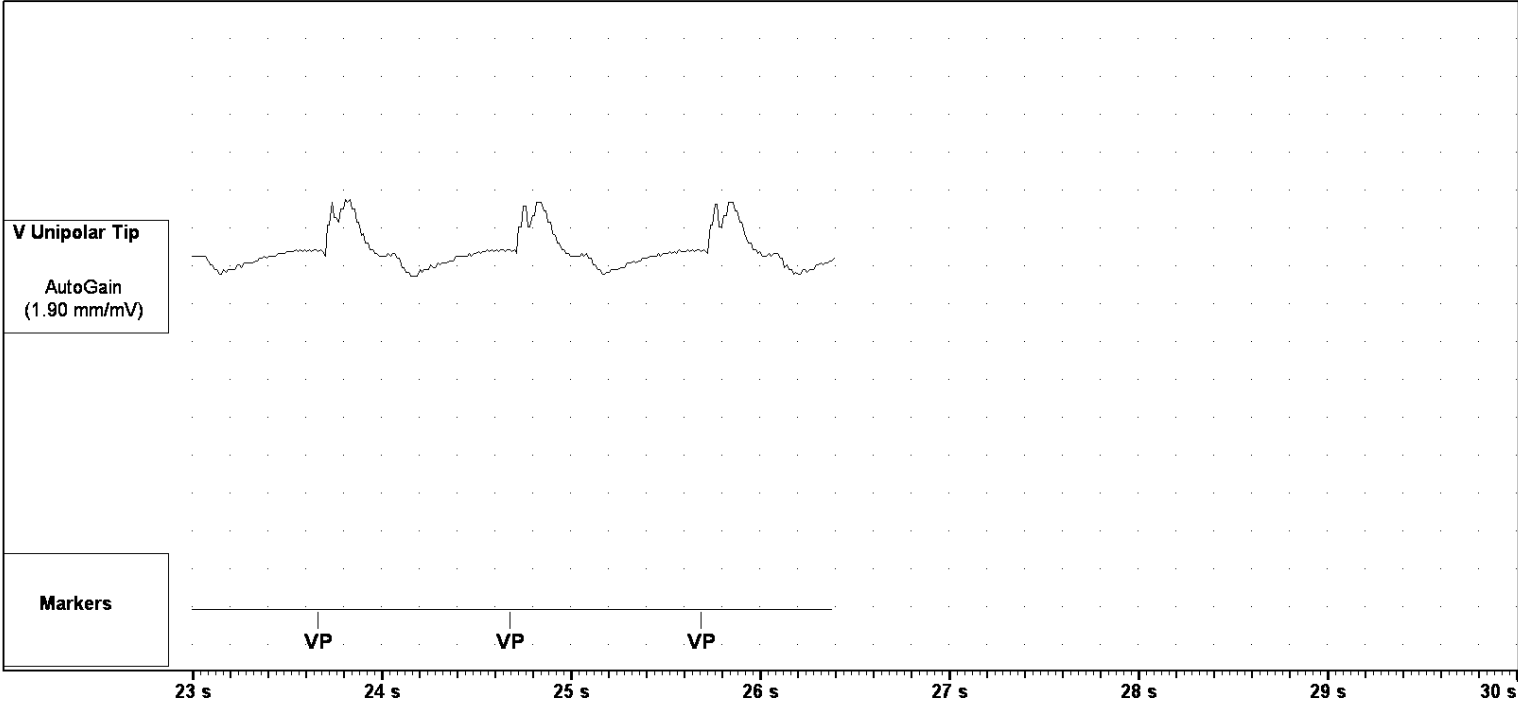
* Does not include
in-clinic
measurements

Lead Impedance Trend (weekly)



Freeze Capture

④ May 27, 2022 9:26 am (Sweep Speed: 25 mm/s)



Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		

BatteryVoltage: **2.78 V**

Remaining Longevity **2.25 - 3 years**
 Magnet Rate **98.5 bpm**
 Current **14 µA**
 Impedance **2.2 kΩ**

Patient Data

Patient Name
 Patient ID
 Implant Date **May 15, 2015**
 A LEAD: MODEL SN:
 MANUFACT: DATE: / /
 V LEAD: MODEL SN:
 MANUFACT: DATE: / /
 ADAPTOR:
 OTHER:

TestsVentricleCapture **1.0 V @ 0.4 ms (Uni) A**Sense **8.6 - > 9.4 mV (Bi) A**Lead Impedance **329 Ω (Uni) A****Programming Changes**

Parameter	Initial	Present
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No changes this session

Basic Operation

	Initial	Present
Mode	VVIR	
Magnet Response	Battery Test	
Sensor	On	
Threshold	Auto (+0.0)	
Measured Avg	2.6	
Slope	Auto (+2)	
Measured Auto	15	
Max Sensor Rate	130 bpm	
Reaction Time	Fast	
Recovery Time	Medium	

Rates

Base Rate	60 bpm
Rest Rate	50 bpm
Max Sensor Rate	130 bpm
Hysteresis Rate	50 bpm
Search Interval	Off
Cycle Count	1
Intervention Rate	Off

Refractories & Blanking

Ventricular Refractory	250 ms
Rate Resp. V. Refr.	Low
Shortest Ventricular Refractory	170 ms

Capture & Sense

	<u>Atrium</u>		<u>Ventricle</u>	
	Initial	Present	Initial	Present
ACap™ Confirm/V. AutoCapture	n/a			On
Backup Pulse Configuration	n/a			Bipolar
Search Frequency	n/a			8 Hours
Pulse Amplitude				1.250 V A
Pulse Width				0.4 ms
Amplitude Monitoring				On
Sensitivity				2.0 mV

Leads

Lead Type	Uni/Bi	Uni/Bi
Pulse Configuration		Unipolar
Sense Configuration		Bipolar
Lead Monitoring		Monitor
Lower Limit		200 Ω
Upper Limit		2000 Ω

Wrap-up™ Overview

Stored EGM Configuration

	<u>Initial</u>	<u>Present</u>
Sampling Option	Freeze	
Number of Stored Episodes	4	
Channel	Dual	
A. EGM Configuration	A Bipolar	
A. EGM Recording Range	± 3.0 mV	
V. EGM Configuration	V Bipolar	
V. EGM Recording Range	± 15.0 mV	

Episode Triggers

High Ventricular Rate Trigger	150 bpm
Consecutive Cycles	5
Magnet Placement Trigger	Off

BatteryVoltage: **2.78 V**

ERI (2.5V, 86.3 bpm)

Remaining Longevity **2.25 - 3 years**
 Magnet Rate **98.5 bpm**
 Current **14 µA**
 Impedance **2.2 kΩ**

Patient Data

Patient Name
 Patient ID
 Implant Date **May 15, 2015**
 A LEAD: MODEL SN:
 MANUFACT: DATE: / /
 V LEAD: MODEL SN:
 MANUFACT: DATE: / /
 ADAPTOR:
 OTHER:

TestsVentricleCapture **1.0 V @ 0.4 ms (Uni) A**Sense **8.6 - > 9.4 mV (Bi) A**Lead Impedance **329 Ω (Uni) A****Programming Changes**

Parameter	Initial	Present
-----------	---------	---------

No changes this session

Basic Operation

	Initial	Present
Mode	VVIR	
Magnet Response	Battery Test	
Sensor	On	
Threshold	Auto (+0.0)	
Measured Avg	2.6	
Slope	Auto (+2)	
Measured Auto	15	
Max Sensor Rate	130 bpm	
Reaction Time	Fast	
Recovery Time	Medium	

Rates

Base Rate	60 bpm
Rest Rate	50 bpm
Max Sensor Rate	130 bpm
Hysteresis Rate	50 bpm
Search Interval	Off
Cycle Count	1
Intervention Rate	Off

Refractories & Blanking

Ventricular Refractory	250 ms
Rate Resp. V. Refr.	Low
Shortest Ventricular Refractory	170 ms

Capture & Sense

	<u>Atrium</u>		<u>Ventricle</u>	
	Initial	Present	Initial	Present
ACap™ Confirm/V. AutoCapture	n/a			On
Backup Pulse Configuration	n/a			Bipolar
Search Frequency	n/a			8 Hours
Pulse Amplitude				1.250 V A
Pulse Width				0.4 ms
Amplitude Monitoring				On
Sensitivity				2.0 mV

Leads

Lead Type	Uni/Bi	Uni/Bi
Pulse Configuration		Unipolar
Sense Configuration		Bipolar
Lead Monitoring		Monitor
Lower Limit		200 Ω
Upper Limit		2000 Ω

Wrap-up™ Overview

Stored EGM Configuration

	<u>Initial</u>	<u>Present</u>
Sampling Option	Freeze	
Number of Stored Episodes	4	
Channel	Dual	
A. EGM Configuration	A Bipolar	
A. EGM Recording Range	± 3.0 mV	
V. EGM Configuration	V Bipolar	
V. EGM Recording Range	± 15.0 mV	

Episode Triggers

High Ventricular Rate Trigger	150 bpm
Consecutive Cycles	5
Magnet Placement Trigger	Off

Note:**2 Alerts**Atrial Lead Impedance Out of range
High Ventricular Rate Detected**Battery**Voltage: **2.78 V**

ERI (2.5 V)

Magnet Rate

98.5 bpm

Current

14 µA

Remaining Longevity:

2.25 - 3 years

Impedance

2.2 kΩ

Data from last read

Current Parameters

Mode	DDDR	
Base Rate	60 bpm	
Max Track Rate	130 bpm	
Paced/Sensed AV Delay	225/200 ms	
	A	V
Pulse Amplitude (V)	5.00	1.250 A
Pulse Width (ms)	0.8	0.4
Sensitivity (mV)	0.2	2.0

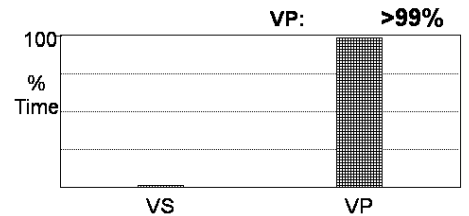
Episodes

New EGMs	4
Total Episodes	4

Test Results (Last Session: Apr 8, 2022)

	Atrium
Capture	Today: 2.00 V @ 0.5 ms (Bi) Apr 24, 2017: 3.75 V @ 0.5 ms (Bi)
Sense	Today: Not Performed Apr 16, 2018: 0.4 - 0.5 mV (Bi)
Lead Impedance	Today: Not Performed A No trend data

	Ventricle
Capture	Today: 1.0 V @ 0.4 ms (Uni) A
Sense	May 25: Not Performed A
Lead Impedance	Today: 329 Ω (Uni) A

Events**Initial Parameters**

Diagnostics Read

Basic Operation

Mode	VVIR	Sensor	On
Magnet Response	Battery Test	Threshold	Auto (+0.0)
		Measured Avg	2.6
		Slope	Auto (+2)
		Measured Auto	15
		Max Sensor Rate	130 bpm
		Reaction Time	Fast
		Recovery Time	Medium

Rates

Base Rate	60 bpm	Hysteresis Rate	50 bpm
Rest Rate	50 bpm	Search Interval	Off
Max Sensor Rate	130 bpm	Cycle Count	1
		Intervention Rate	Off

Capture & Sense

V. AutoCapture	A n/a	V On
Backup Pulse Config		Bipolar
Search Frequency		8 Hours A
Pulse Amplitude		1.250 A
Pulse Width		0.4 ms
Amplitude Monitoring		On
Sensitivity		2.0

Leads

Lead Type	A Uni/Bi	V Uni/Bi
Pulse Config		Unipolar
Sense Config		Bipolar
Lead Monitoring		Monitor
Lower Limit		200 Ω
Upper Limit		2000 Ω

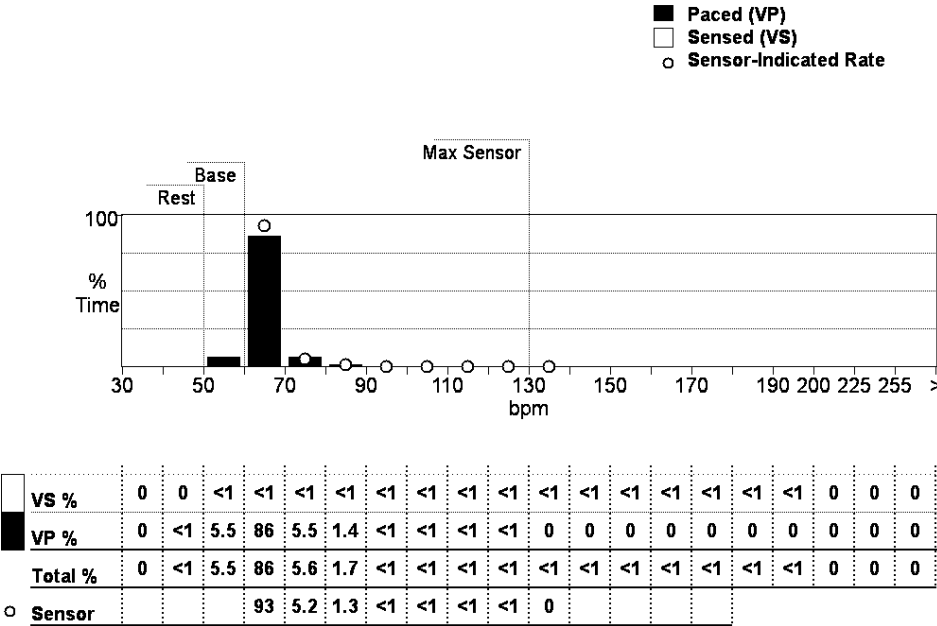
Refractories & Blanking

Ventricular Refractory	250 ms
Rate Resp. V. Refr.	Low
Shortest PVARP/REF	170 ms

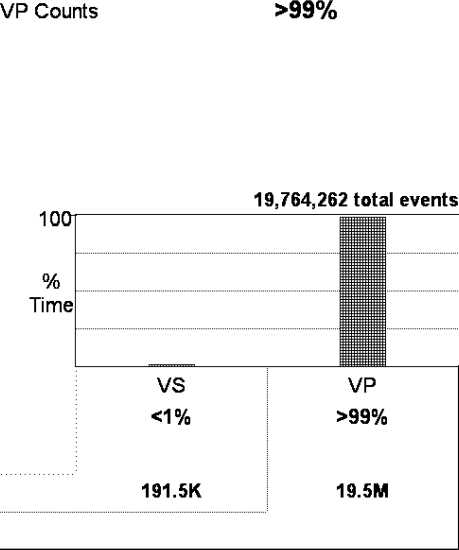
Patient Data

Patient Name
Patient ID
Implant Date May 15, 2015
A LEAD: MODEL SN:
MANUFACT: DATE: / /
V LEAD: MODEL SN:
MANUFACT: DATE: / /
ADAPTOR:
OTHER:

Heart Rate Histogram



Events



>225d 3h 35m 54s Sampled since (Frozen)*

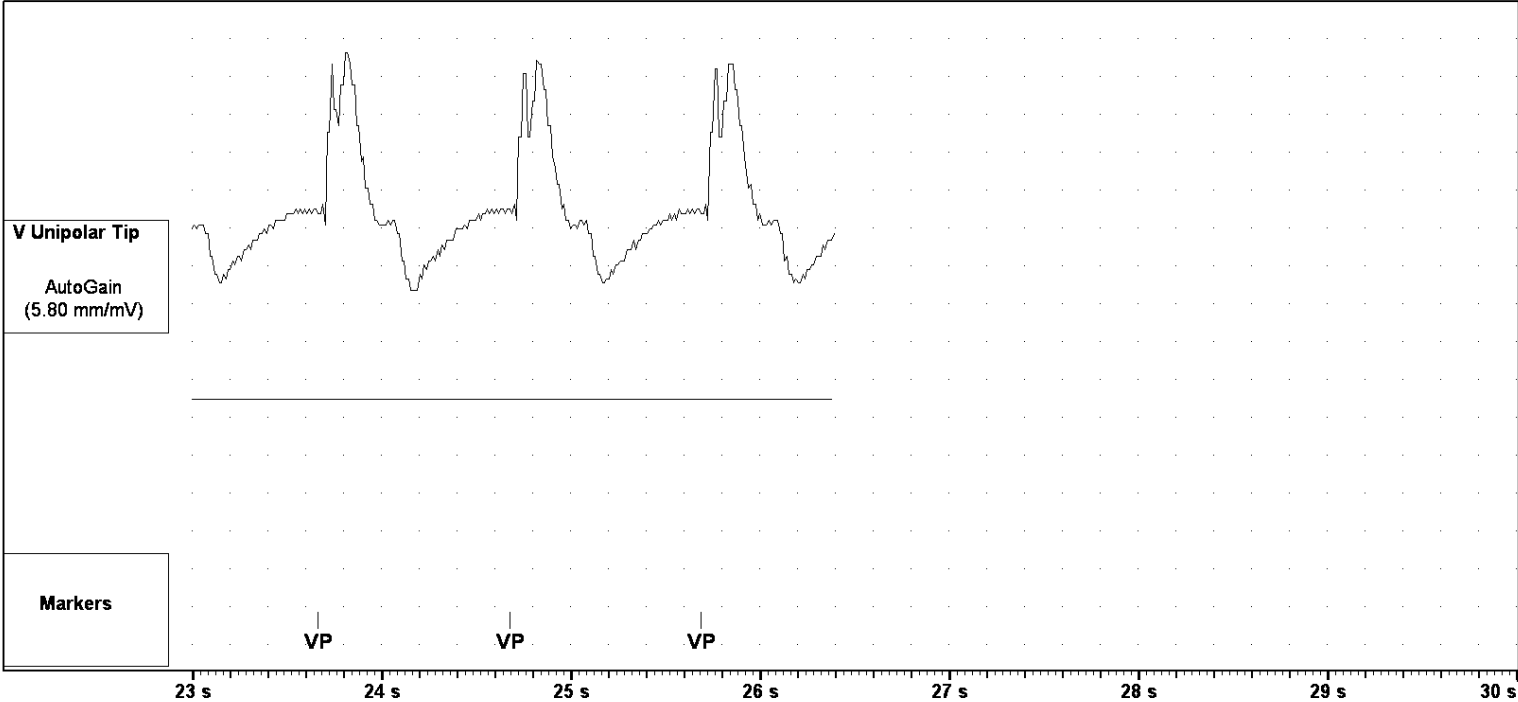
*Sensor-Indicated Rate (Frozen)

>225d 3h 35m 54s Sampled since (Frozen)

AMS Summary

AMS Histograms are not supported in VVIR Mode.

④ May 27, 2022 9:26 am (Sweep Speed: 25 mm/s)



Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		

A (Sweep Speed: 0 mm/s)

Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		

Trigger Counts

Trigger	Count	EGMs
High Ventricular Rate	4	4
150 bpm		
5 consecutive cycles		

Episode Directory

Date	Time	Type
May 25, 2022	8:57pm	High Ventricular Rate
May 25, 2022	8:47pm	High Ventricular Rate
May 25, 2022	8:45pm	High Ventricular Rate
May 25, 2022	8:41pm	High Ventricular Rate

Stored EGM Configuration

Sampling Option	Freeze
Number of Stored Episodes	4
Channel	Dual
A. EGM Configuration	A Bipolar
A. EGM Recording Range	± 3.0 mV
V. EGM Configuration	V Bipolar
V. EGM Recording Range	± 15.0 mV
EGM Configuration	n/a
EGM Recording Range	n/a

High Ventricular Rate May 25, 2022 8:57 pm
Mode VVIR

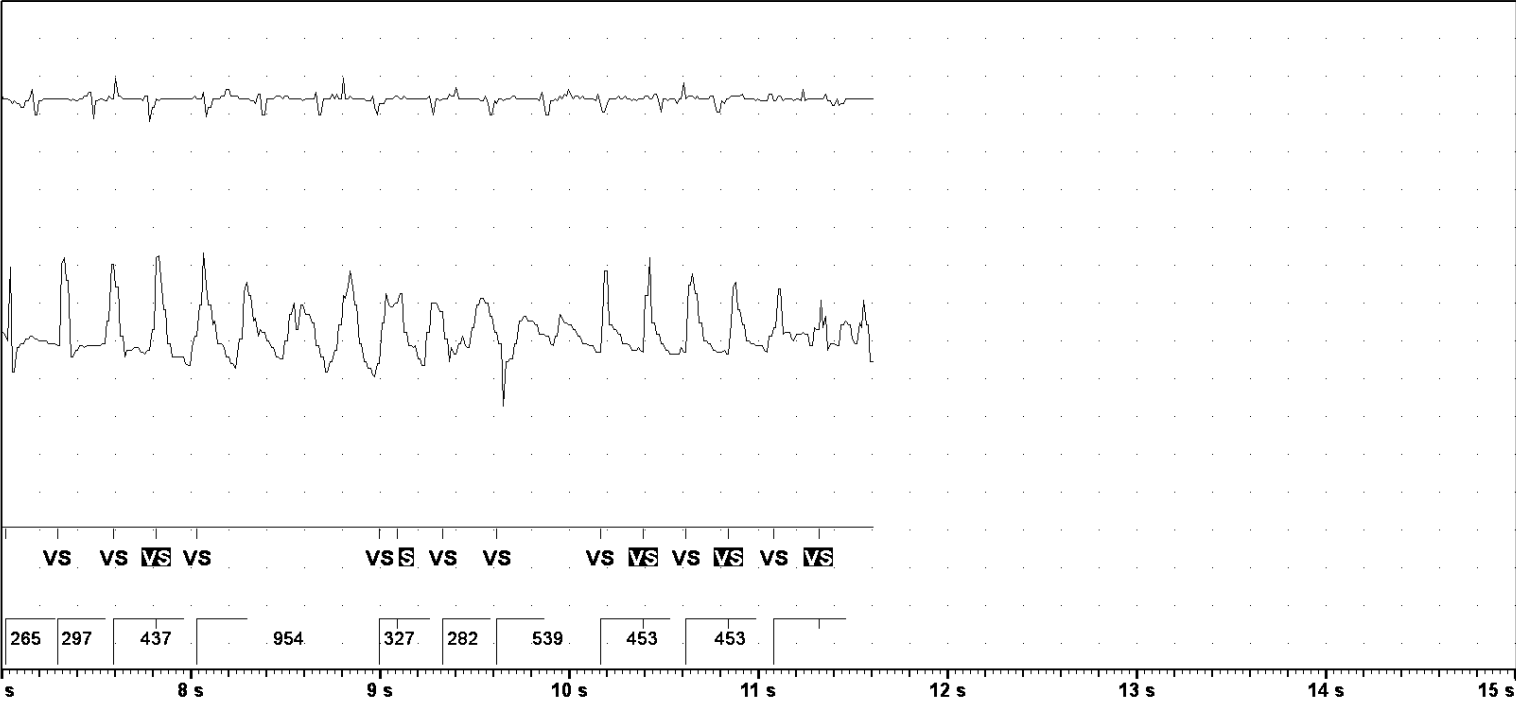
Episode 4 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:57 pm

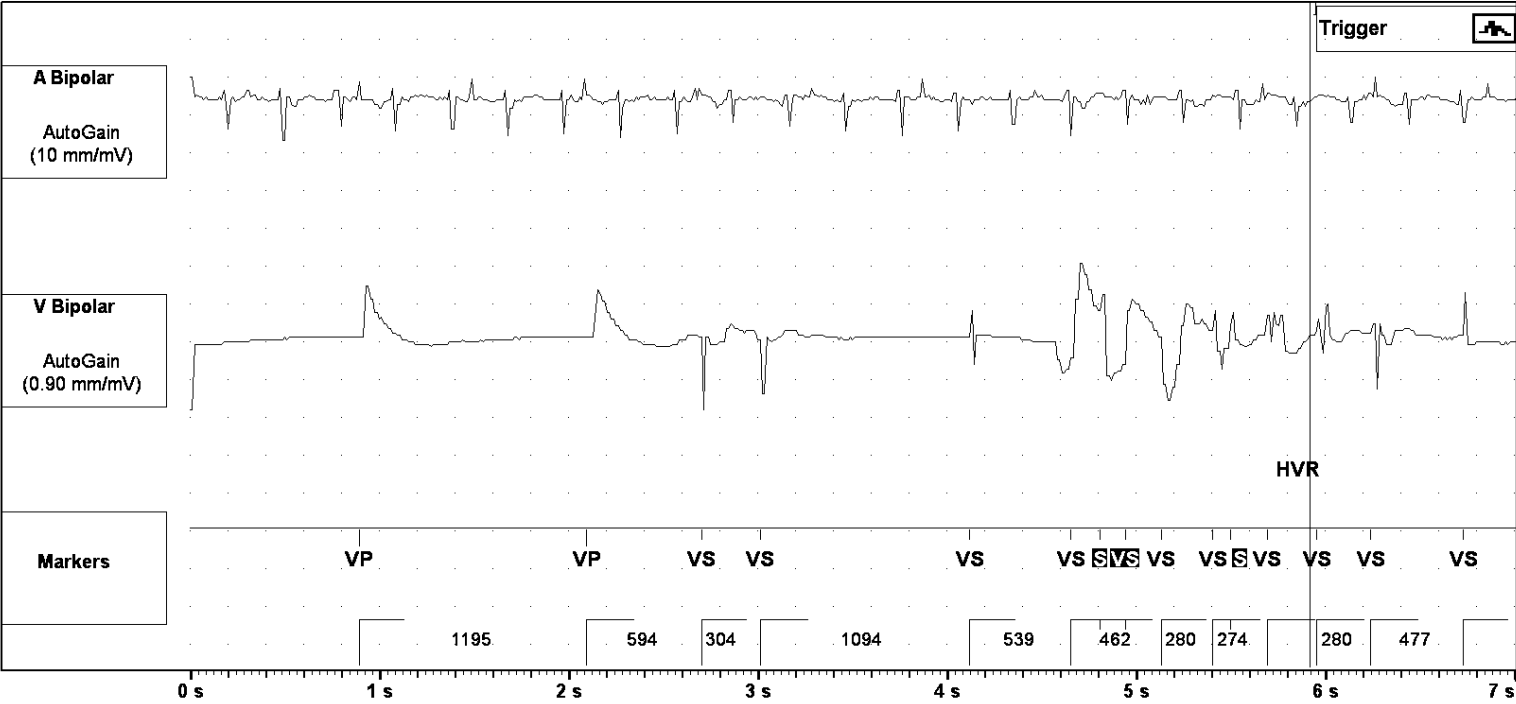
Episode 4 of 4



Sweep Speed: 25 mm/s

High Ventricular Rate May 25, 2022 8:47 pm
Mode VVIR

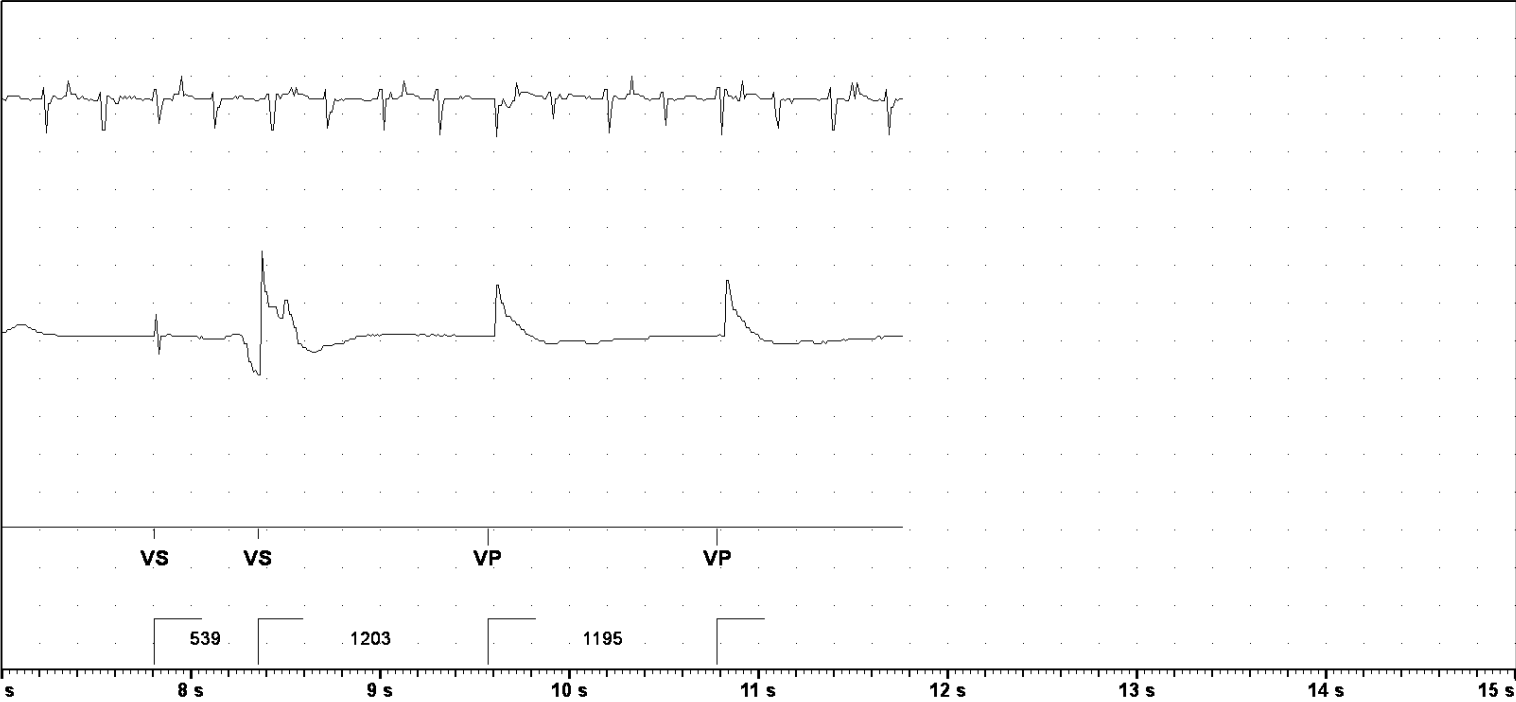
Episode 3 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:47 pm

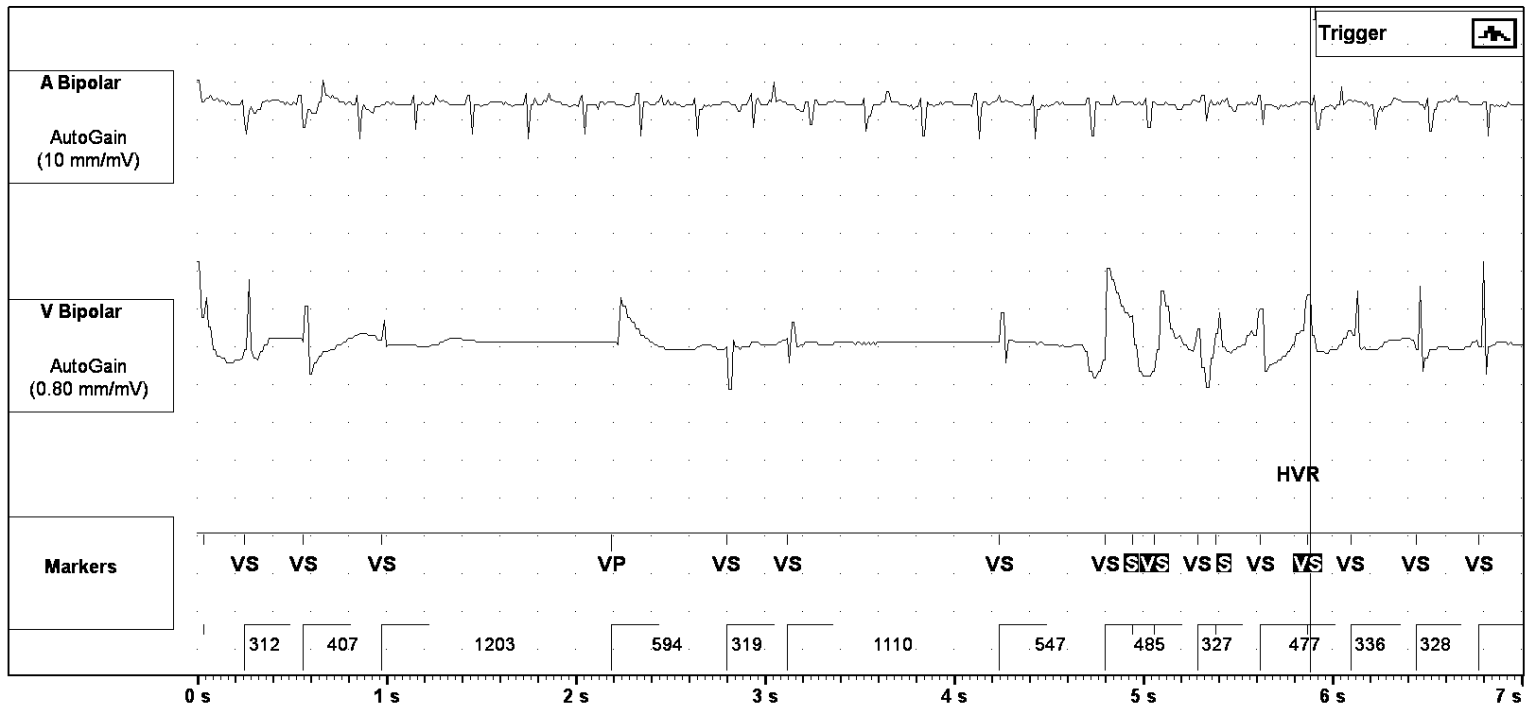
Episode 3 of 4



Sweep Speed: 25 mm/s

High Ventricular Rate May 25, 2022 8:45 pm
Mode VVIR

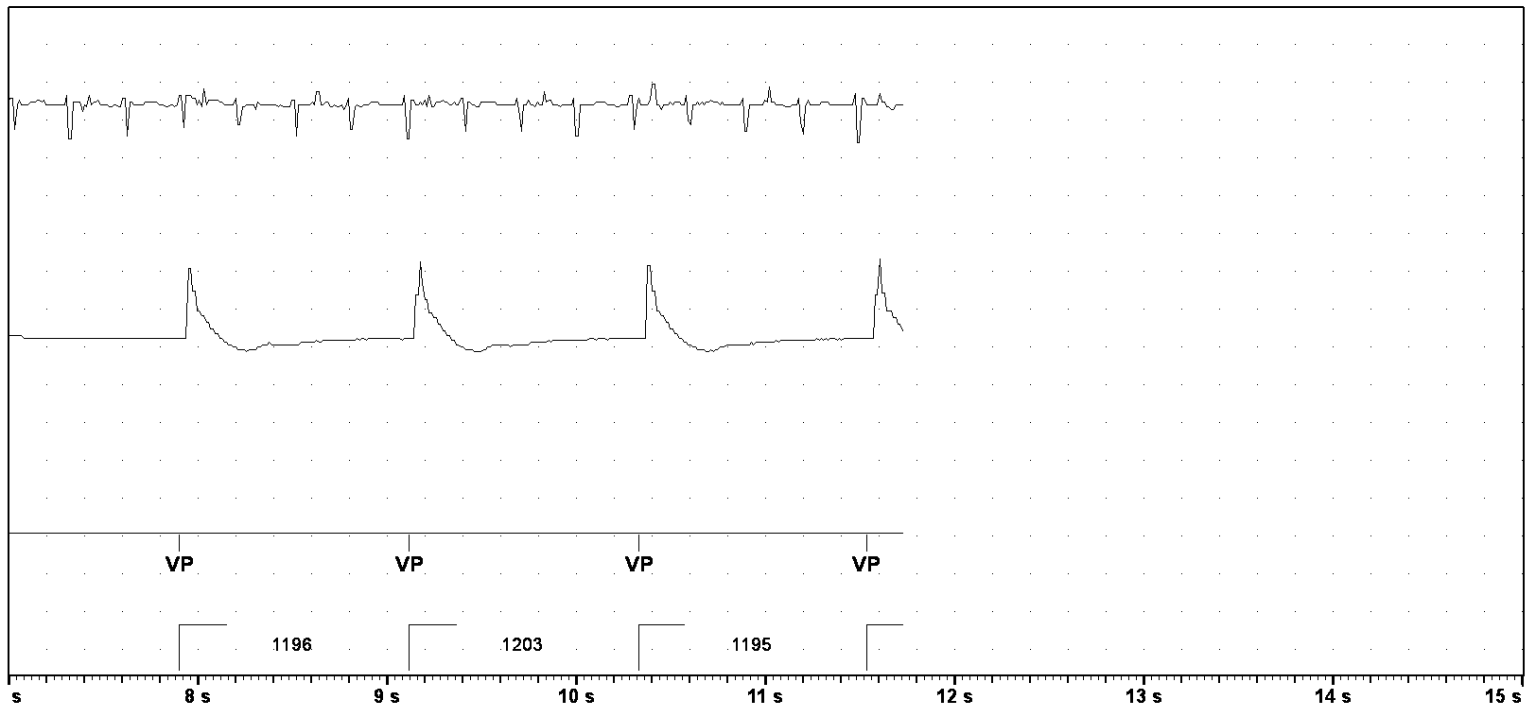
Episode 2 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:45 pm

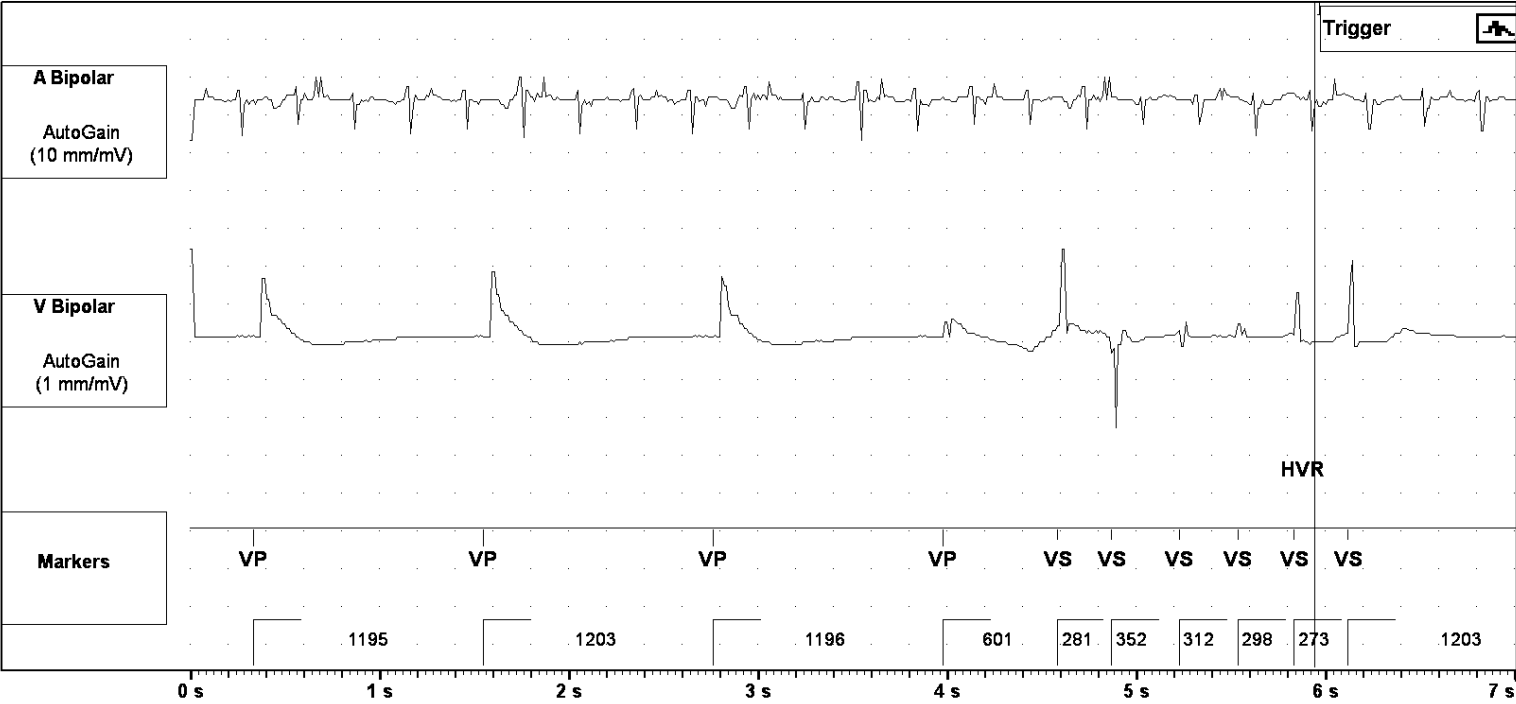
Episode 2 of 4



Sweep Speed: 25 mm/s

High Ventricular Rate May 25, 2022 8:41 pm
Mode VVIR

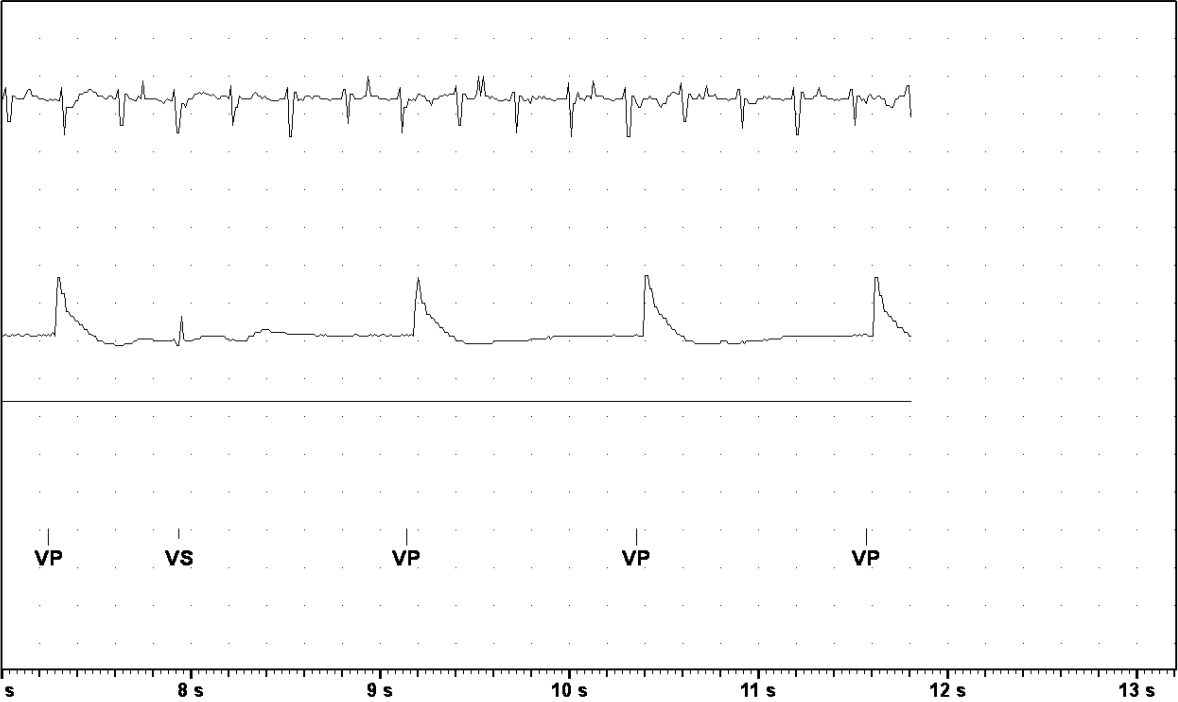
Episode 1 of 4



Sweep Speed: 25 mm/s

(Continued) High Ventricular Rate May 25, 2022 8:41 pm

Episode 1 of 4



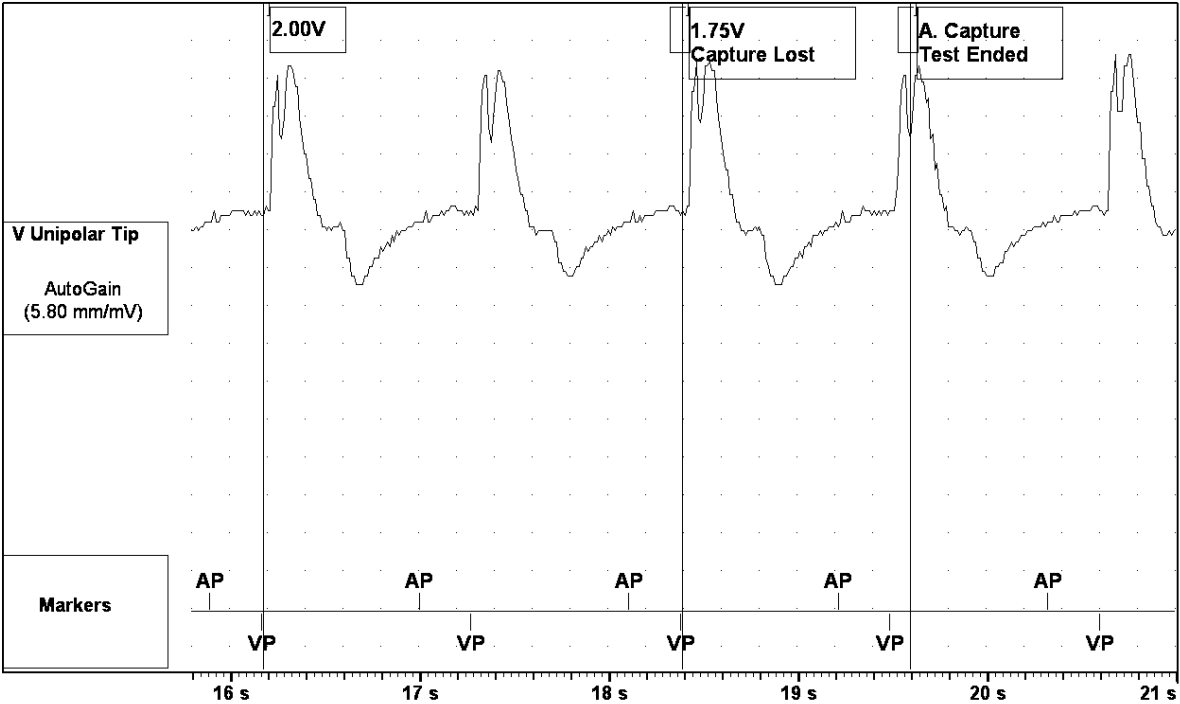
Sweep Speed: 25 mm/s

Atrial Capture Test

This Session: **2.00** V @ 0.5 ms(Bi)

Safety Margin: 2.5 : 1 @ 5.00 V
Apr 24, 2017 : 3.75 V @ 0.5 ms (Bi)

May 27, 2022 9:31 am (Sweep Speed: 25 mm/s)

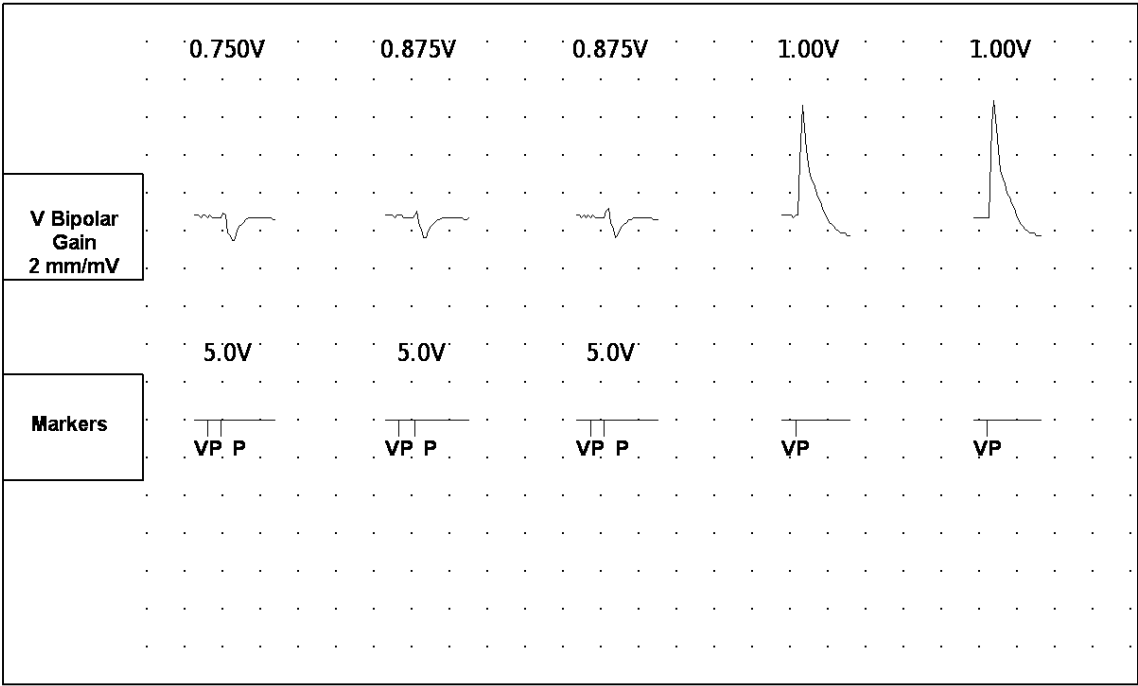


Today: 1.0 V @ 0.4 ms(Uni) A

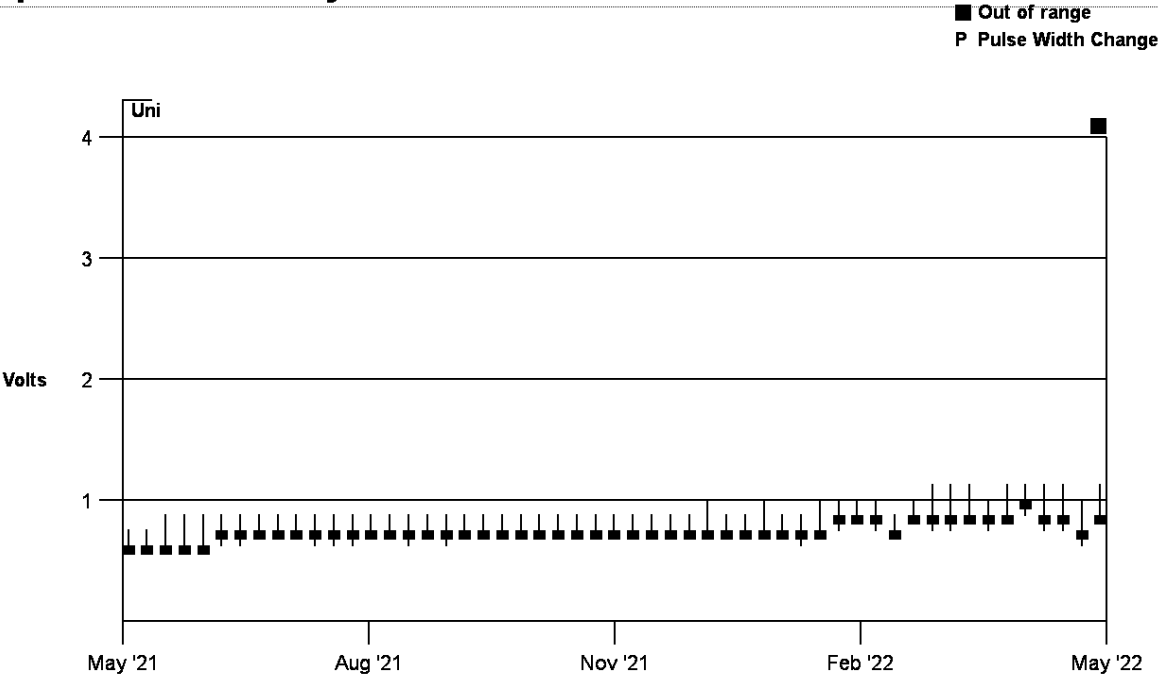
Last Session: 1.0 V @ 0.4 ms (Uni)

First Measurement(May 18, 2015) : 0.50 V @ 0.4ms (Uni)

Today (Sweep Speed: 25 mm/s)



V. AutoCapture Trend (weekly)



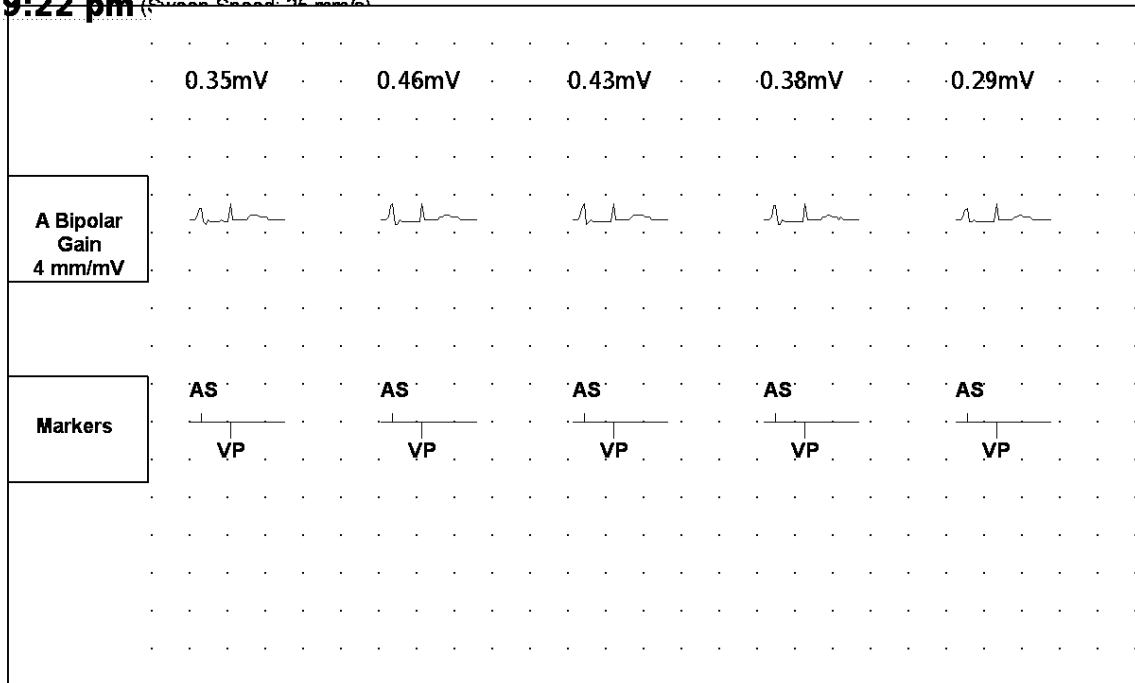
Atrial Sense Test

Jun 28, 2015: **0.2 - 0.4** mV (Bi) **A**

Safety Margin: 2.4 : 1 @ 0.2 mV

Apr 16, 2018 : 0.4-0.5 mV (Bi)

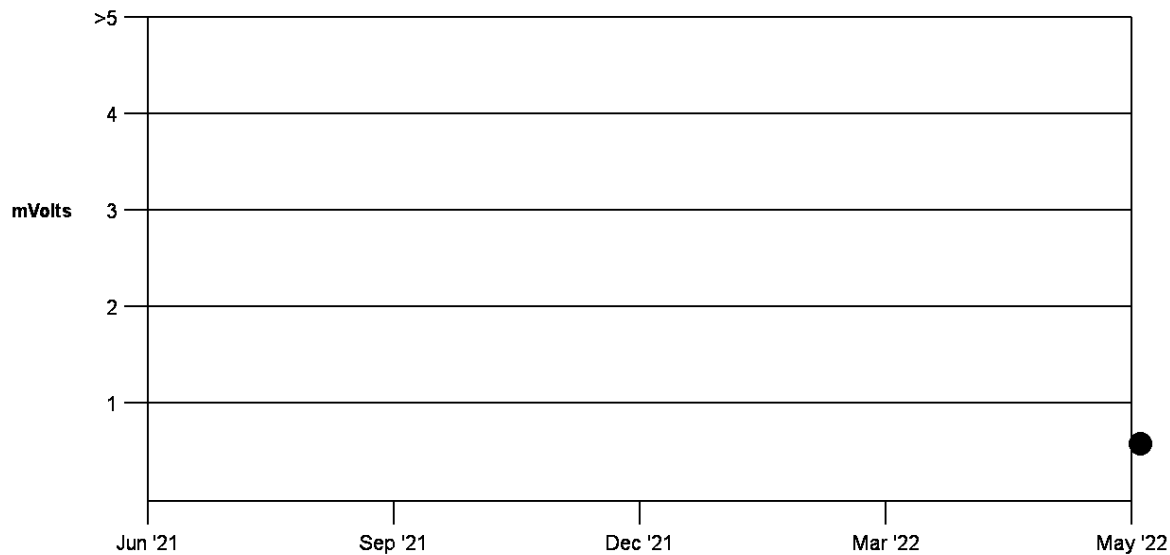
Jun 28, 2015 9:22 pm (Sweep Speed: 25 mm/s)



Atrial Amplitude Trend (weekly)

No trend data

● This Session Result

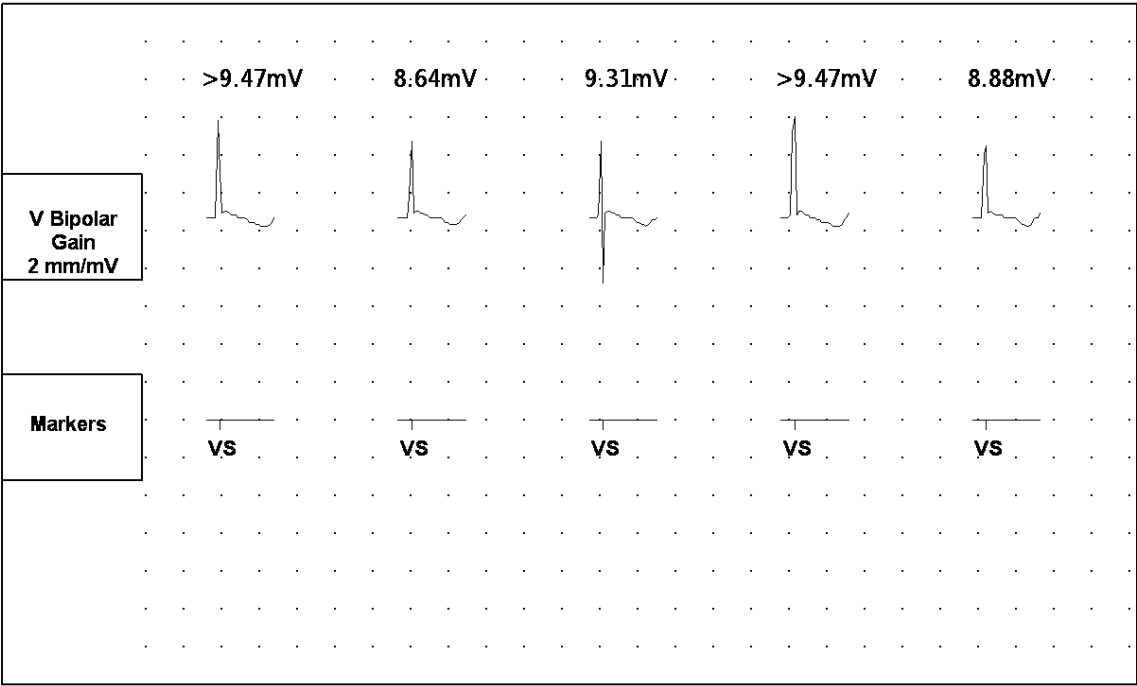


May 25, 2022: **8.6 - > 9.4** mV (Bi) **A**

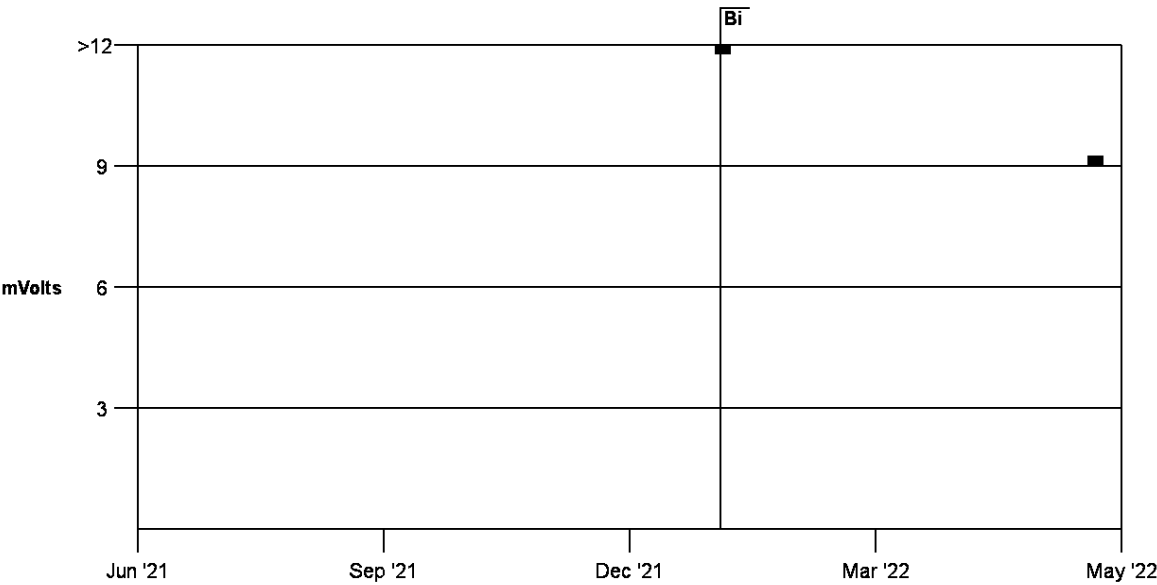
Safety Margin: 4.3 : 1 @ 2.0 mV

May 25, 2020 : > 12.0 mV (Bi)

May 25, 2022 5:56 am (Sweep Speed: 25 mm/s)



Ventricular Amplitude Trend (weekly)



Test Results

Battery

Voltage: 2.78 V



ERI (2.5 V)

Remaining Longevity	2.25 - 3 years
Magnet Rate	98.5 bpm
Current	14 µA
Impedance	2.2 kΩ
	Data from last read

Atrial Lead Impedance

Impedance: Ω (Uni)

Last Session
First Measurement
Lifetime Range (Bi)
Lifetime Range (Uni)

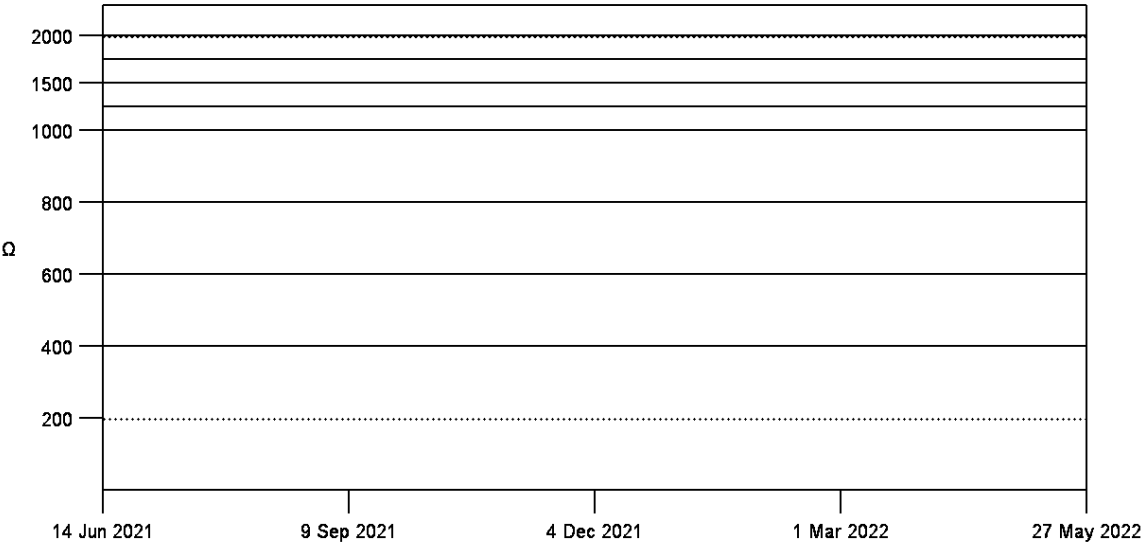
No previous results
532 Ω (Bi)
400 - 769 Ω *
No Measurement *

* Does not include
in-clinic
measurements

Lead Impedance Trend (weekly)

A Polarity Switch

No trend data



Ventricular Lead Impedance

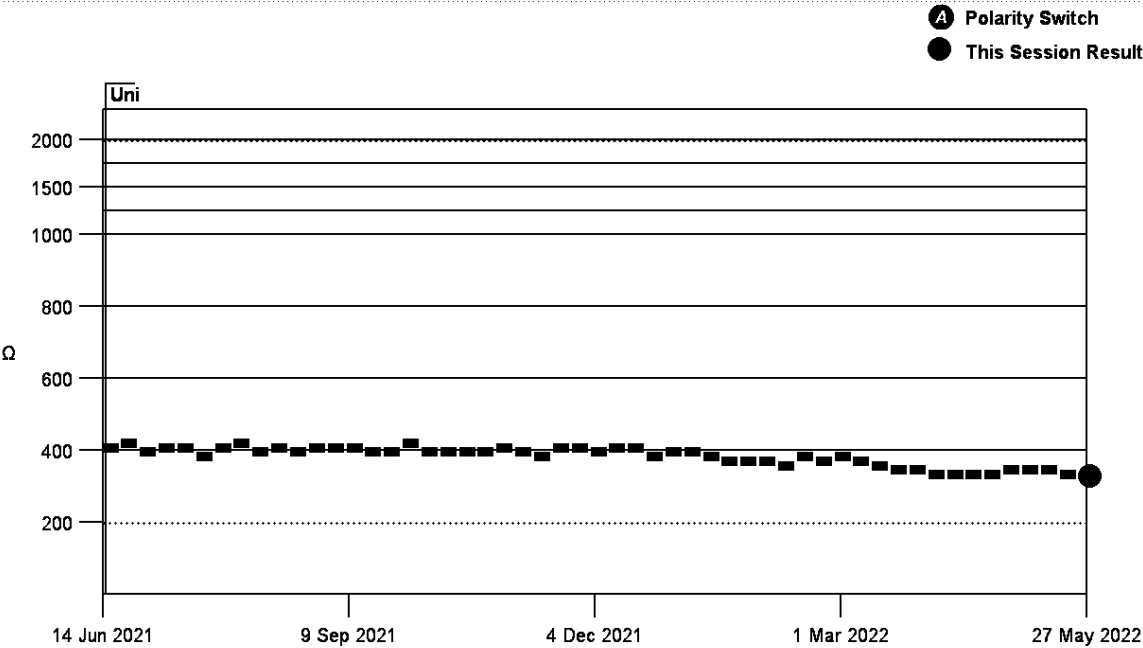
Impedance: **329** Ω

(Uni)

Last Session 353 Ω (Uni)
First Measurement 779 Ω (Bi)
Lifetime Range (Bi) 558 - 845 Ω *
Lifetime Range (Uni) 321 - 463 Ω *

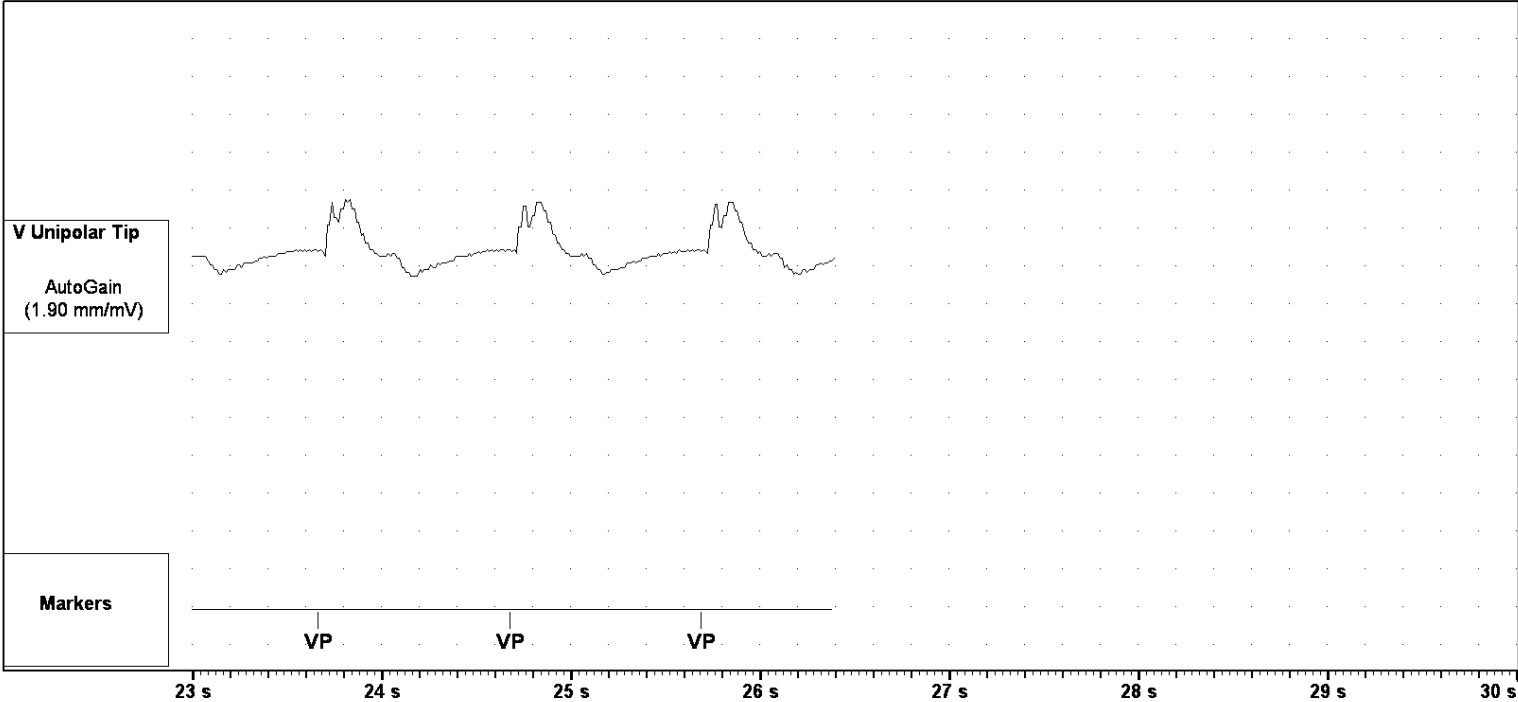
* Does not include
in-clinic
measurements

Lead Impedance Trend (weekly)



Freeze Capture

④ May 27, 2022 9:26 am (Sweep Speed: 25 mm/s)



Key Parameters

Mode	VVIR	Max Sensor Rate	130 bpm	Rate Responsive Ventricular	Low
Base Rate	60 bpm	Hysteresis Rate	50 bpm		
Rest Rate	50 bpm	V. AutoCapture	On		