

### Canary Medical CTE with CHIRP System (Base Station)

FCC 15.249:2020 2400 - 2483.5 MHz Transceiver

Report: CAAL0013.2, Issue Date: November 23, 2020



TESTING NVLAP LAB CODE: 200676-0



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#### Last Date of Test: October 12, 2020 Canary Medical EUT: CTE with CHIRP System (Base Station)

### **Radio Equipment Testing**

Standards	
Specification	Method
FCC 15.249:2020	ANSI C63.10:2013

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6	Field Strength of Harmonics and Spurious Radiated Emissions	Yes	Pass	
6.6	Field Strength of Fundamental	Yes	Pass	
7.5	Duty Cycle	Yes	Pass	

#### **Deviations From Test Standards**

None

**Approved By:** 

Victor Ratinoff, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

# **REVISION HISTORY**



Revision Number	Description	Date (yyyy-mm-dd)	Page Number
00	None		

# ACCREDITATIONS AND AUTHORIZATIONS



#### **United States**

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

#### Canada

**ISED** - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

#### European Union

European Commission – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

#### Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

#### Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

#### Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

#### Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

#### Singapore

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

#### Israel

**MOC** – Recognized by MOC as a CAB for the acceptance of test data.

#### Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

#### Vietnam

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

### SCOPE

For details on the Scopes of our Accreditations, please visit: https://www.nwemc.com/emc-testing-accreditations

### FACILITIES





California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington           Labs NC01-05           19201 120 <sup>th</sup> Ave NE           Bothell, WA 98011           (425)984-6600		
		NVLAP				
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0		
Innovation, Science and Economic Development Canada						
2834B-1, 2834B-3	2834E-1, 2834E-3	2834D-1	2834G-1	2834F-1		
BSMI						
SL2-IN-E-1154R	SL2-IN-E-1152R	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R		
VCCI						
A-0029	A-0109	A-0108	A-0201	A-0110		
Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA						
US0158	US0175	US0017	US0191	US0157		



# **MEASUREMENT UNCERTAINTY**



#### **Measurement Uncertainty**

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.1 dB	-5.1 dB
AC Powerline Conducted Emissions (dB)	2.6 dB	-2.6 dB

# **Test Setup Block Diagrams**





# **PRODUCT DESCRIPTION**



#### **Client and Equipment Under Test (EUT) Information**

Company Name:	Canary Medical
Address:	2710 Loker Ave West
City, State, Zip:	Carlsbad, CA 92010
Test Requested By:	Peter Schiller
EUT:	CTE with CHIRP System (Base Station)
First Date of Test:	October 6, 2020
Last Date of Test:	October 12, 2020
Receipt Date of Samples:	September 1, 2020
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

#### Information Provided by the Party Requesting the Test

#### **Functional Description of the EUT:**

The CTE system base station is a custom external medical electronic component with MICS radio and WiFi radio. It has a USB 2.0 connection for power and data transfer to and from a PC. The base station is used as a conduit between an implant placed in a patient's knee and LAN.

The home base station (EUT) devices all contain a MedRadio-compliant transceiver that communicates with implanted CTEs via 403 MHz radio. The base stations also contain hardware to communicate data bidirectionally to PC applications via USB

The Home base station, used as part of a system for an Implantable knee device with dual-band 2.45GHz and MICS band custom antenna. The base station will be operating over a PIFA antenna on 2.45 GHz for low-power wake-up and on an on-the-board helical antenna for the MICS band.

#### **Testing Objective:**

Seeking to demonstrate compliance under FCC 15.249:2020 for operation in the 2400 - 2483.5 MHz Band.

## **CONFIGURATIONS**



### Configuration CAAL0013-8

Software/Firmware Running during test	
Description	Version
Canary_HOME_BST	v1.1.0

EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Home Base Station	Canary Medical, Inc.	HBS1	000025		

Peripherals in test setup boundary						
Description	Manufacturer	Model/Part Number	Serial Number			
Power Supply (EUT) Home Base Station	CUI Inc	SWM6-5-NH-U	190400820			

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
LISE Cable 1m No Home Pase Station		Power Supply (EUT) Home					
	USD Cable	1111	INO	Home base Station	Base Station		

## **MODIFICATIONS**



### **Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
1	2020-10-06	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2020-10-07	Field Strength of Harmonics and Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2020-10-08	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2020-10-12	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

# **POWER SETTINGS**



The EUT was tested using the power settings provided by the manufacturer:

#### SETTINGS FOR ALL TESTS IN THIS REPORT

Modulation Types	Туре	Position	Frequency (MHz)	Power Setting
2.4 GHz Wake Up	SRD	Mid Channel	2410	Max



#### **TEST DESCRIPTION**

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 500hm measuring port is terminated by a 500hm EMI meter or a 500hm resistive load. All 500hm measuring ports of the LISN are terminated by 500hm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESCI	ARG	2020-08-07	2021-08-07
LISN	Solar Electronics	9252-50-24-BNC	LIA	2020-01-07	2021-01-07
Cable - Conducted Cable Assembly	Northwest EMC	OCP, HFP, AWC	OCPA	2020-08-26	2021-08-26

#### **MEASUREMENT UNCERTAINTY**

Description		
Expanded k=2	2.6 dB	-2.6 dB

#### **CONFIGURATIONS INVESTIGATED**

CAAL0013-8

#### **MODES INVESTIGATED**

Transmitting 2.4GHz Wake-UP SRD: 2410 MHz



EUT:	CTE with CH	IRP Syster	m (Base Station)		Work Order:	CAAL0013				
Serial Number:	000025				Date:	2020-10-08				
Customer:	Canary Medi	cal			Temperature:	22.9°C				
Attendees:	None				Relative Humidity:	46.3%				
Customer Project:	None			Bar. Pressure:	1016 mb					
Tested By:	Salvador Sol	orzano		Job Site:	OC06					
Power:	110VAC/60H	Z		Configuration:	CAAL0013-8					
TEST SPECIFICATIONS										
Specification: Equi	oment Class B			Method:						
FCC 15.249:2020				ANSI C63.10:201	13					
TEST PARAME	ETERS									
Run #: 17		Line:	High Line		Add. Ext. Attenuation (dB	): 0				
COMMENTS										
COMMENTS										
COMMENTS None										
COMMENTS None EUT OPERATI	NG MODES									
COMMENTS None EUT OPERATI Transmitting 2.4GF	NG MODES Iz Wake-UP SF	RD: 2410 M	IHz							
COMMENTS None EUT OPERATI Transmitting 2.4GH DEVIATIONS F	NG MODES Iz Wake-UP SF	RD: 2410 M STAND	IHz ARD							



Average Data - vs - Average Limit





#### **RESULTS - Run #17**

Quasi Peak Data - vs - Quasi Peak Limit										
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)					
0.412	18.9	20.0	38.9	57.6	-18.7					
0.621	15.3	20.0	35.3	56.0	-20.7					
0.795	14.2	20.0	34.2	56.0	-21.8					
0.848	10.4	20.0	30.4	56.0	-25.6					
1.935	7.5	20.0	27.5	56.0	-28.5					
3.379	4.5	20.1	24.6	56.0	-31.4					

Average Data - vs - Average Limit											
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)						
0.412	17.0	20.0	37.0	47.6	-10.6						
0.621	11.1	20.0	31.1	46.0	-14.9						
0.795	6.9	20.0	26.9	46.0	-19.1						
1.935	4.5	20.0	24.5	46.0	-21.5						
0.848	1.0	20.0	21.0	46.0	-25.0						
3.379	-0.4	20.1	19.7	46.0	-26.3						

#### CONCLUSION

Pass

2 C

Tested By



EUT:	CTE with CH	IIRP Syster	m (Base Station)		Work Order:	CAAL0013				
Serial Number:	000025				Date:	2020-10-08				
Customer:	Canary Med	cal			Temperature:	22.9°C				
Attendees:	None				Relative Humidity:	46.3%				
Customer Project:	None			Bar. Pressure:	1016 mb					
Tested By:	Salvador So	orzano		Job Site:	OC06					
Power:	110VAC/60H	lz		Configuration:	CAAL0013-8					
TEST SPECIFICATIONS										
Specification: Equ	pment Class B									
FCC 15.249:2020				ANSI C63.10:20	13					
TEST PARAM	ETERS									
Run #: 18		Line:	Neutral		Add. Ext. Attenuation (dB	): 0				
COMMENTS										
None										
EUT OPERAT	NG MODES									
Transmitting 2.4G	Hz Wake-UP SI	RD: 2410 N	/Hz							
DEVIATIONS FROM TEST STANDARD										
Nege										



Average Data - vs - Average Limit





#### **RESULTS - Run #18**

Q	Quasi Peak Data - vs - Quasi Peak Limit										
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)						
0.397	19.3	20.0	39.3	57.9	-18.6						
0.620	16.9	20.0	36.9	56.0	-19.1						
0.628	16.3	20.0	36.3	56.0	-19.7						
0.357	18.0	20.1	38.1	58.8	-20.7						
0.766	14.4	20.0	34.4	56.0	-21.6						
0.502	10.5	20.0	30.5	56.0	-25.5						
1.483	8.3	19.9	28.2	56.0	-27.8						

# Average Data - vs - Average Limit Amp. Factor Adjusted Limit M

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Limit (dBuV)	Margin (dB)
0.397	13.2	20.0	33.2	47.9	-14.7
0.357	9.4	20.1	29.5	48.8	-19.3
0.620	6.5	20.0	26.5	46.0	-19.5
0.628	6.1	20.0	26.1	46.0	-19.9
0.766	4.3	20.0	24.3	46.0	-21.7
0.502	1.5	20.0	21.5	46.0	-24.5
1.483	0.6	19.9	20.5	46.0	-25.5

#### CONCLUSION

Pass

Con Ala

Tested By

# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2020.06.24.2 BETA

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### MODES OF OPERATION

Transmitting 2.4GHz Wake-UP SRD: 2410 MHz

#### POWER SETTINGS INVESTIGATED

USB Powered

#### **CONFIGURATIONS INVESTIGATED**

CAAL0013 - 8

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz

Stop Frequency 26500 MHz

#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Filter - High Pass	Micro-Tronics	HPM50111	HHX	30-Jun-20	30-Jun-21
Filter - Low Pass	Micro-Tronics	LPM50004	LFT	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKQ	1-Jul-20	1-Jul-21
Cable	Northwest EMC	3-18GHz RE Cables	000	27-Feb-20	27-Feb-21
Amplifier - Pre-Amplifier	Miteq	F-6F-12001800-30-	AOF	27-Feb-20	27-Feb-21
Antenna - Standard Gain	ETS Lindgren	3160-07	AHR	NCR	NCR
Amplifier - Pre-Amplifier	Miteq	F-6F-08001200-30-	AOE	27-Feb-20	27-Feb-21
Antenna - Standard Gain	ETS Lindgren	3160-08	AHT	NCR	NCR
Antenna - Standard Gain	ETS Lindgren	3160-09	AHN	NCR	NCR
Cable	Northwest EMC	8-26GHz RE Cable	OCK	13-Dec-19	13-Dec-20
Amplifier - Pre-Amplifier	Cernex	CBL01084020-xx	PAX	28-Feb-20	28-Feb-21
Cable	Northwest EMC	1-8GHz RE Cables	OCJ	28-Feb-20	28-Feb-21
Antenna - Double Ridge	EMCO	3115	AHE	22-Jul-20	22-Jul-22
Amplifier - Pre-Amplifier	Miteq	AM-1402	AOZ	1-Jul-20	1-Jul-21
Cable	Northwest EMC	kHz-1GHz RE Cab	OCH	1-Jul-20	1-Jul-21
Antenna - Biconilog	EMCO	3142B	AXK	30-Oct-19	30-Oct-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	3-Aug-20	3-Aug-21

#### TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector PK = Peak Detector AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show

### FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS



					EmiR5 2020.06.24.4	PSA-ESCI 2020.06.24.2
Wo	ork Order:	CAAL0013	Date:	2020-11-11	11. 2	
	Project:	None	Temperature:	17.3 °C	14 Bt	
	Job Site:	OC10	Humidity:	47.6% RH		
Serial	I Number:	000025	Barometric Pres.:	1019 mbar	Tested by: Mark Baytan	
	EUT:	CHIRP System (Base	Station)		· · · · · · · · · · · · · · · · · · ·	
Confi	iguration:	8	elationy			
C	Sustomer:	Canary Medical				
	ttondoos:	Nono				
	IT Power:	IISB Doworod				
EU	JI Power.			1		
Operati	ing Mode:	Transmitting 2.4GHz	Wake-UP SRD: 2410 M	ΠZ		
		N1				
De	eviations:	None				
•		The EUT is only capa	ble of transmitting in low	channel which is 24	10 MHz. When product goes to mar	ket it will not be
LC LC	omments:	able to broad cast in a	any other channel. Prima	ary Antenna.		
Test Speci	ifications			Test Met	nod	
FCC 15.249	9:2020			ANSI C63	.10:2013	
Run #	12	Test Distance (m)	3 Antenna I	loight(s)	1 to (m) Results	Page
IXun #	14	Test Distance (iii)	3 Antenna	leight(3)	r to 4(iii)	1 435
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80						
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70 +						
-						
60 +						
60 —						
60 -						
60 50						
60 — E <sup>50 —</sup>						
60 50 S						
60 50 M/\ng 40						
60 50 <b>W/\ngp</b> 40						
60 50 M/Angp 40						
60 50 M/Ngp 30						
60 50 M/Ngp 30						
60 50 M Angp 30						
60 50 MAN 40 30 20						
60 50 <b>W/NR</b> 40 30 20						
60 50 <b>W/Nngp</b> 30 20						
60 50 40 30 20 10						
60 50 40 30 20 10						
60 50 WANBD 40 30 20 10						
60 50 <b>W/Ng</b> 40 30 20 10						
60 50 40 30 20 10 0					10000	
60 50 40 30 20 10 10					10000	100000

Freq	Amplitude	Factor	Antenna Height	Azimuth	Test Distance	External Attenuation	Polarity/ Transducer Type	Detector	Distance Adjustment	Adjusted	Spec. Limit	Compared to Spec.	
(MHZ)	(abuv)	(ab)	(meters)	(degrees)	(meters)	(dB)			(dB)	(aBuv/m)	(dBuv/m)	(GB)	Comments
7229.833	32.6	4.5	1.5	185.0	3.0	0.0	Vert	AV	0.0	37.1	54.0	-16.9	EUT on Side, Primary Ant.
7229.525	32.6	4.4	1.8	351.0	3.0	0.0	Horz	AV	0.0	37.0	54.0	-17.0	EUT Vert, Primary Ant.
4820.008	41.1	-4.6	2.5	253.0	3.0	0.0	Horz	AV	0.0	36.5	54.0	-17.5	EUT Vert, Primary Ant.
4820.007	40.3	-4.6	1.2	260.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	EUT on Side, Primary Ant.
4820.005	37.6	-4.6	1.5	142.0	3.0	0.0	Horz	AV	0.0	33.0	54.0	-21.0	EUT Horz, Primary Ant.
4820.042	37.5	-4.6	1.5	303.0	3.0	0.0	Horz	AV	0.0	32.9	54.0	-21.1	EUT on Side, Primary Ant.
4820.500	36.6	-4.6	1.5	130.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	EUT Vert, Primary Ant.
4820.088	36.5	-4.6	1.5	23.0	3.0	0.0	Vert	AV	0.0	31.9	54.0	-22.1	EUT Horz, Primary Ant.
7229.938	46.9	4.5	1.5	185.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	EUT on Side, Primary Ant.
7230.463	46.8	4.5	1.8	351.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	EUT Vert, Primary Ant.
4820.298	52.1	-4.6	1.2	260.0	3.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5	EUT on Side, Primary Ant.
9640.725	31.1	-4.1	1.5	221.0	3.0	0.0	Vert	AV	0.0	27.0	54.0	-27.0	EUT on Side, Primary Ant.
4820.062	51.5	-4.6	2.5	253.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	EUT Vert, Primary Ant.
9640.725	31.0	-4.1	1.5	48.0	3.0	0.0	Horz	AV	0.0	26.9	54.0	-27.1	EUT Vert, Primary Ant.
4819.980	51.1	-4.6	1.5	23.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	EUT Horz, Primary Ant.
4819.923	50.8	-4.6	1.5	130.0	3.0	0.0	Vert	PK	0.0	46.2	74.0	-27.8	EUT Vert, Primary Ant.
4820.387	50.8	-4.6	1.5	142.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	EUT Horz, Primary Ant.
4820.435	50.7	-4.6	1.5	303.0	3.0	0.0	Horz	PK	0.0	46.1	74.0	-27.9	EUT on Side, Primary Ant.
9638.950	46.7	-4.1	1.5	48.0	3.0	0.0	Horz	PK	0.0	42.6	74.0	-31.4	EUT Vert, Primary Ant.
9642.475	44.9	-4.0	1.5	221.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	EUT on Side, Primary Ant.

# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS



										EmiR5 2020.06.24.4		PSA-ESCI 2	020.06.24.2
W	/ork Order:	CAAL	.0013		Date:	2020-	11-11		11	1. 0			
	Project:	No	ne	Ten	nperature:	17.	3°C		-4	-K Q	1		
	Job Site:	OC	:10		Humidity:	47.6	% RH		- 19				
Seria	al Number:	000	025	Barome	etric Pres.:	1019	mbar	1	Fested by:	Mark Bayta	an		
	EUT:	CHIRP Sys	stem (Base	Station)									
Con	figuration:	8											
	Customer:	Canary Me	dical										
	Attendees:	None											
-	OT Power:	USB Powe			04401	MI 1-							
Opera	ting Mode:	i ransmittin	ig 2.4GHZ \	Vake-UP S	RD: 24101	MHZ							
I	Deviations:	None											
Comments: The EUT is only capable of transmitting in low channel which is 2410 MHz. When product goes to market it will not be able to broad cast in any other channel. Primary Antenna.											be		
Test Spe	cifications						Test Meth	od					
FCC 15.249:2020 ANSI C63.10:2013													
Run #	<b>#</b> 8	Test Dis	stance (m)	3	Antenna	a Height(s)		1 to 4(m)		Results	F	'ass	
80 - 70 - 60 - <b>W/Ngp</b> 40 - 30 - 20 - 10 -													
0 - 10	100											100	00
						MHz				PK	◆ AV	• 0	QP
							Polarity/						

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
2388.213	36.9	-12.0	2.6	37.0	3.0	20.0	Horz	AV	0.0	44.9	54.0	-9.1
2389.417	36.9	-12.0	1.5	137.0	3.0	20.0	Horz	AV	0.0	44.9	54.0	-9.1
2388.270	36.9	-12.0	3.7	248.0	3.0	20.0	Vert	AV	0.0	44.9	54.0	-9.1
2389.390	36.9	-12.0	2.1	78.0	3.0	20.0	Horz	AV	0.0	44.9	54.0	-9.1
2389.217	36.9	-12.0	1.5	143.0	3.0	20.0	Vert	AV	0.0	44.9	54.0	-9.1
2389.210	36.8	-12.0	2.6	219.0	3.0	20.0	Vert	AV	0.0	44.8	54.0	-9.2
2388.750	52.0	-12.0	2.6	37.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0
2389.483	51.4	-12.0	3.7	248.0	3.0	20.0	Vert	PK	0.0	59.4	74.0	-14.6
2389.260	51.2	-12.0	1.5	137.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8
2389.593	50.9	-12.0	2.1	78.0	3.0	20.0	Horz	PK	0.0	58.9	74.0	-15.1
2389.840	50.6	-12.0	2.6	219.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4
2389.547	50.6	-12.0	1.5	143.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4

# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS



					EmiR5 2020	06.24.4 PSA-ESCI 2020.06.24.2
۷	Vork Order	: CAAL0013	Date:	2020-11-11	11	2
	Project	: None	Temperature:	17.3 °C	14KC	Syt-
	Job Site	: OC10	Humidity:	47.6% RH	-14	1.
Seri	ial Number	000025	Barometric Pres.:	1019 mbar	Tested by: Mark E	Baytan
	EUT	CHIRP System (Base	Station)			
Cor	nfiguration	: 8				
	Customer	Canary Medical				
	Attendees	None				
E	EUT Power	USB Powered				
Opera	ating Mode	Transmitting 2.4GHz	Wake-UP SRD: 2410 M	Hz		
	Deviations	None				
	Comments	The EUT is only capa to broad cast in any o	ble of transmitting in low ther channel. Secondary	r channel which is 24 r Antenna.	10 MHz. When product goes t	o market it will not be able
Test Spe	cifications			Test Meth	nod	
FCC 15.2	249:2020			ANSI C63	3.10:2013	
Punt	# 11	Test Distance (m)	3 Antenna	Height(s)		ulfe Dace
Kull	# 11	Test Distance (III)	3 Antenna	neight(s)	1 to 4(III) Res	uits Fass
80						
70						
60						
<u>ج</u> 50						
<b>/ngp</b>						
30						
20						
10						
0 1	10	100		1000 MHz	10000	

Polarity/ Transduce Type Antenna Height External Attenuation Distance Adjustmen Compared to Spec. Freq Amplitude Azimuth Test Distance Spec. Limit Factor Detecto Adjusted (MHz) (dBuV) (dB) (meters) (degrees) (meters) (dB) (dB) (dBuV/m) (dBuV/m) (dB) Comments 7229.507 32.5 4.4 2.4 301.0 3.0 0.0 Horz AV 36.9 54.0 -17.1 EUT Vert, Secondary Ant. 0.0 7229.662 32.5 4.4 2.7 138.0 3.0 0.0 Vert AV 0.0 36.9 54.0 -17.1 EUT Horz, Secondary Ant. -4.6 2.3 1.5 54.0 EUT Vert. Secondary Ant. 4820.007 40.6 273.0 3.0 0.0 Horz AV 0.0 36.0 -18.037.3 -4.6 311.0 AV EUT on Side, Secondary Ant. 4819.997 3.0 0.0 Horz 0.0 32.7 54.0 -21.3 4819.985 37.2 -4.6 1.8 96.0 3.0 0.0 Horz AV 0.0 32.6 54.0 -21.4 EUT Horz, Secondary Ant. AV AV 4820.040 37.1 -4.6 1.5 18.0 3.0 0.0 Vert 0.0 32.5 54 0 -21.5 EUT Horz, Secondary Ant. 4820.473 54.0 EUT Vert, Secondary Ant. -4.6 32.1 36.7 1.5 14.0 3.0 0.0 Vert 0.0 -21.9 4820.087 36.5 -4.6 1.5 282.0 3.0 0.0 Vert AV 0.0 31.9 54.0 -22.1 EUT on Side, Secondary Ant. 7230.347 46.7 4.5 2.4 301.0 3.0 0.0 Horz ΡK 0.0 51.2 74.0 -22.8 EUT Vert, Secondary Ant. 2.7 1.5 3.0 3.0 ΡK EUT on Horz. Secondary Ant. 7229.628 46.4 4.4 138.0 0.0 Vert 0.0 50.8 74.0 -23.2 32.1 -4.1 EUT Horz, Secondary Ant. 9637.908 187.0 0.0 Vert AV 0.0 28.0 54.0 -26.0 4820.073 51.6 -4.6 2.3 273.0 3.0 0.0 ΡK 0.0 47.0 74.0 -27.0 EUT Vert, Secondary Ant. Horz 4820.055 51.2 -4.6 1.5 14.0 3.0 0.0 Vert ΡK 0.0 46.6 74.0 -27.4 EUT Vert, Secondary Ant. 2.5 AV EUT Vert, Secondary Ant. 9637.917 30.7 -4.1 151.0 3.0 0.0 Horz 0.0 26.6 54.0 -27.4 PK EUT Horz, Secondary Ant. 4819.758 51.1 -4.6 1.8 96.0 3.0 0.0 Horz 0.0 46.5 74.0 -27.5 4820.107 51.0 -4.6 1.5 311.0 3.0 0.0 Horz ΡK 0.0 46.4 74.0 -27.6 EUT on Side, Secondary Ant. 4819.928 50.5 -4.6 1.5 282.0 3.0 0.0 Vert ΡK 0.0 45.9 74.0 -28.1 EUT on Side, Secondary Ant, PK EUT Horz, Secondary Ant. 4820,405 50.4 -4.6 1.5 18.0 3.0 0.0 Vert 0.0 45.8 74.0 -28.2 45.0 -4.1 2.5 151.0 3.0 PK 0.0 40.9 74.0 EUT Vert, Secondary Ant. 9639.142 0.0 -33.1 Horz 9642.458 44.7 -4.0 1.5 187.0 3.0 0.0 Vert ΡK 0.0 40.7 74.0 -33.3 EUT Horz, Secondary Ant.

# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS



							EmiR5 2020.06.24.4	PSA-ESCI 2020.06.24.2
V	Nork Order:	CAAL0013		Date:	2020-11	11	11. 0	
	Project:	None	Ter	nperature:	17.3 °(		THAT.	
	Job Site:	OC10		Humidity:	47.6% F	H		
Ser	ial Number:	000025	Barome	etric Pres.:	1019 mt	ar T	ested by: Mark Baytan	
	EUT:	CHIRP System (Base	Station)					
Col	nfiguration:	8						
	Customer:	Canary Medical						
	Attendees:	None						
	EUT Power:	USB Powered						
Opera	ating Mode:	Transmitting 2.4GHz \	Wake-UP S	SRD: 2410 MH	łz			
	Deviations:	None						
	Comments:	The EUT is only capal able to broad cast in a	ole of trans	mitting in low hannel. Secor	channel whi idary Antenr	ch is 2410 MHz. Wh a.	nen product goes to marl	ket it will not be
Test Spe	cifications				Те	st Method		
FCC 15.2	249:2020				AN	ISI C63.10:2013		
Run	# 10	Test Distance (m)	3	Antenna H	leight(s)	1 to 4(m)	Results	Pass
80								
00								
70	-							
				11				
60	-							
50								
E 30								
Ś				•				
<b>n</b> 40								
P								
30	+							
20	1							
10								
10								
0	1							
1(	000				MHz		■ РК	10000 • AV • QP

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
2389.987	37.0	-12.0	1.5	103.0	3.0	20.0	Horz	AV	0.0	45.0	54.0	-9.0
2389.797	37.0	-12.0	1.5	49.0	3.0	20.0	Vert	AV	0.0	45.0	54.0	-9.0
2389.480	37.0	-12.0	1.5	198.0	3.0	20.0	Horz	AV	0.0	45.0	54.0	-9.0
2388.240	37.0	-12.0	1.5	125.0	3.0	20.0	Vert	AV	0.0	45.0	54.0	-9.0
2389.913	36.9	-12.0	1.5	164.0	3.0	20.0	Horz	AV	0.0	44.9	54.0	-9.1
2389.800	36.9	-12.0	1.5	301.0	3.0	20.0	Vert	AV	0.0	44.9	54.0	-9.1
2389.913	52.7	-12.0	1.5	125.0	3.0	20.0	Vert	PK	0.0	60.7	74.0	-13.3
2388.853	51.7	-12.0	1.5	103.0	3.0	20.0	Horz	PK	0.0	59.7	74.0	-14.3
2388.590	51.1	-12.0	1.5	164.0	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9
2388.187	51.1	-12.0	1.5	49.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9
2388.417	51.0	-12.0	1.5	301.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0
2388.490	51.0	-12.0	1.5	198.0	3.0	20.0	Horz	PK	0.0	59.0	74.0	-15.0

### FIELD STRENGTH OF FUNDAMENTAL



PSA-ESCI 2020.04.03.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### MODES OF OPERATION

Transmitting 2.4GHz Wake-UP SRD: 2410 MHz

#### POWER SETTINGS INVESTIGATED

110VAC/60Hz

#### **CONFIGURATIONS INVESTIGATED**

CAAL0013 - 8

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 2400 MHz

Stop Frequency 2483.5 MHz

#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFJ	2020-01-04	24 mo
Cable	ESM Cable Corp.	1-8GHz cables	OCX	2020-03-02	12 mo
Antenna - Double Ridge	ETS Lindgren	3115	AIR	2020-07-07	24 mo

#### **MEASUREMENT BANDWIDTHS**

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

#### TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes.

### **RADIATED EMISSIONS**



											EmiR5 2020.06.24.4	PS	SA-ESCI 2020.06.24.2
	Wo	ork Order:	CAAL	_0013		Date:	2020	-11-10		11	, 0		
		Project:	No	one	Ten	perature:	18.	6 °C		-4	+ Ott		
		Job Site:	00	C10		Humidity:	44.2	% RH		- 34			
S	erial	Number:	000	025	Barome	tric Pres.:	1020	mbar	Г	ested by:	Mark Bayta	an	
		EUT:	CHIRP Sys	stem (Base	Station)								
	confi	iguration:	8	-P I									
		ustomer:	Canary Me	edical									
		IT Bower	INONE	rod									
	<u> </u>	T FOWER.	Transmittin		Naka-I IP S		1117						
Op	erati	ing Mode:	Transmittin	ig 2.40112	Wake-OI O	110. 24101							
	_		None										
	De	eviations:											
			The EUT is	s only capal	ble of transi	nitting in lo	w channel	which is 2	410 MHz. Wł	nen produc	t goes to m	arket it will	not be
	Co	omments:	able to bro	ad cast in a	any other ch	annel. Prir	mary Anter	ina.					
Test S	peci	fications						Test Met	hod				
FCC 1	5.249	9:2020						ANSI C63	3.10:2013				
Ru	n #	4	Test Dis	stance (m)	3	Antenna	Height(s)		1 to 4(m)		Results	Pa	ass
1	20 <sub>T</sub>												
1	10 -												
			-										
1	~												
1	00 1												
	90 -		•										
_			•										
Ę			•										
Š	80 -												
ā													
U													
	70 -												
	60												
	ן ייי												
	50 -												
	40 -									-			
	24	00	2410	2420	2	430	2440	24	50 2	2460	2470	24	80
							MHz				PK	◆ AV	
						_				_			-
				Antenna			External	Polarity/ Transducer		Distance			Compared to
Free	1	Amplitude	Factor	Height	Azimuth	Test Distance	Attenuation	Туре	Detector	Adjustment	Adjusted	Spec. Limit	Spec.
(MHz	<u>;</u> )	(dBuV)	(dB)	(meters)	(degrees)	(meters)	(dB)			(dB)	(dBuV/m)	(dBuV/m)	(dB)
2410.0	67	76.5	36.2	1.2	27.0	3.0	0.0	Horz	PK	0.0	112.7	114.0	-1.3
2410.0	17	55.1	36.2	1.2	27.0	3.0	0.0	Horz	AV	0.0	91.3	94.0	-2.7
2410.0	80	72.9	36.2	1.59	188.0	3.0	0.0	Horz	PK	0.0	109.1	114.0	-4.9
2410.0	158	72.2	36.2	1.5	106.0	3.0	0.0	Vert	PK	0.0	108.4	114.0	-5.6
2410.0	i∠ə 133	51.8 51.1	30.2 36.2	1.59	108.0	3.0	0.0	HOIZ Vert	AV AV	0.0	87 3	94.0 94.0	-0.0 -6.7
2410.0	158	70.5	36.2	1.2	140.0	3.0	0.0	Horz	PK	0.0	106.7	114.0	-7.3
2410.0	800	49.4	36.2	1.2	140.0	3.0	0.0	Horz	AV	0.0	85.6	94.0	-8.4
2410.0	800	65.4	36.2	1.5	191.0	3.0	0.0	Vert	PK	0.0	101.6	114.0	-12.4
2409.9	183	65.1 44 4	36.2	1.2	93.0 191.0	3.0 3.0	0.0	Vert	PK	0.0	101.3 80.6	114.0 g/ 0	-12.7
2410.0	17	44.1	36.2	1.2	93.0	3.0	0.0	Vert	AV	0.0	80.3	94.0	-13.7

### **RADIATED EMISSIONS**



								EmiR5 2020.06.24.4	PSA-ESCI 2020.06.24.2
	Wo	rk Order:	CAAL0013		Date:	2020-11-1	0	11,0	
		Project:	None	Ten	nperature:	18.6 °C		14 Oth	
		Job Site:	OC10		Humidity:	44.2% RH	1	- //	
	Serial	Number:	000025	Barome	tric Pres.:	1020 mba	r Te	sted by: Mark Baytan	
		EUT:	CHIRP System (Bas	e Station)					
	Config	guration:	8						
	C	ustomer:	Canary Medical						
	At	tendees:	None						
	EU	I Power:	USB Powered						
0	peratii	ng Mode:	Transmitting 2.4GHz	wake-UP S	RD: 2410 MH	Z			
	De	eviations:	None						
	Co	omments:	The EUT is only cap able to broad cast in	able of trans any other ch	mitting in low nannel. Seco	channel which ndary Antenn	n is 2410 MHz. Whe a.	en product goes to marke	et it will not be
Test	Specif	fications				Test	Method		
FCC	15.249	9:2020	•			ANS	I C63.10:2013		
R	un #	5	Test Distance (m	) 3	Antenna H	eight(s)	1 to 4(m)	Results	Pass
	120 -								
	- F								
	110 -								
	100 -								
	90 -		8						
E			•						
Ś	00								
n Bu	<sup>00</sup> T								
P									
	70								
	10								
	60 -								
	50 +								
	40 +								
	240	00	2410 242	0 2	430	2440	2450 24	60 2470	2480
						MHz			

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
2410.000	73.9	36.2	1.2	22.0	3.0	0.0	Horz	PK	0.0	110.1	114.0	-3.9
2410.033	52.8	36.2	1.2	22.0	3.0	0.0	Horz	AV	0.0	89.0	94.0	-5.0
2410.050	72.6	36.2	4.0	357.0	3.0	0.0	Vert	PK	0.0	108.8	114.0	-5.2
2410.017	72.5	36.2	1.2	64.0	3.0	0.0	Vert	PK	0.0	108.7	114.0	-5.3
2410.008	51.9	36.2	4.0	357.0	3.0	0.0	Vert	AV	0.0	88.1	94.0	-5.9
2410.025	71.8	36.2	3.23	181.0	3.0	0.0	Horz	PK	0.0	108.0	114.0	-6.0
2410.067	71.5	36.2	3.25	174.0	3.0	0.0	Horz	PK	0.0	107.7	114.0	-6.3
2410.017	51.4	36.2	1.2	64.0	3.0	0.0	Vert	AV	0.0	87.6	94.0	-6.4
2410.042	50.5	36.2	3.23	181.0	3.0	0.0	Horz	AV	0.0	86.7	94.0	-7.3
2410.025	50.2	36.2	3.25	174.0	3.0	0.0	Horz	AV	0.0	86.4	94.0	-7.6
2410.042	61.3	36.2	1.2	207.0	3.0	0.0	Vert	PK	0.0	97.5	114.0	-16.5
2410.008	40.4	36.2	1.2	207.0	3.0	0.0	Vert	AV	0.0	76.6	94.0	-17.4

### **DUTY CYCLE**



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5182A	TIF	29-Aug-20	29-Aug-23
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18H-20	TKR	16-Dec-19	16-Dec-20
Block - DC	Aeroflex	INMET 8535	AMO	14-Feb-20	14-Feb-21
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAY	16-Dec-19	16-Dec-20

#### TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. The duty cycle was measured radiated in the RF chamber.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

### **DUTY CYCLE**



								TbtTx 2019.08.30.0	XMit 2020.03.25.0
EUT:	CTE with CHIRP System	(Base Station)					Work Order:	CAAL0013	
Serial Number:	000025						Date:	12-Oct-20	
Customer:	Canary Medical						Temperature:	25.6 °C	
Attendees:	None						Humidity:	48.1% RH	
Project:	None						Barometric Pres.:	1014 mbar	
Tested by:	Mark Baytan		Power:	110VAC/60Hz			Job Site:	OC13	
TEST SPECIFICAT	IONS			Test Method					
FCC 15.249:2020				ANSI C63.10:2013					
COMMENTS									
None									
DEVIATIONS FROM	M TEST STANDARD								
None									
			11	0					
Configuration #	8		14KE	Site					
		Signature							
						Number of	Value	Limit	
				Pulse Width	Period	Pulses	(%)	(%)	Results
2400 MHz - 2483.5 I	MHz Band								
	2.4 GHz SRD								
	2410 MHz			2.829 us	16.008 us	1	17.7	N/A	N/A
	2410 MHz			N/A	N/A	5	N/A	N/A	N/A

### **DUTY CYCLE**





		2400 MHz -	2483.5 MHz Ban	d, 2410 MHz		
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A

