

Sensogram Technologies, Inc.

SensoSCAN

Model S-300

FCC 15.207:2015

FCC 15.247:2015

Report # SNSO0001.2





NVLAP Lab Code: 201049-0

CERTIFICATE OF TEST



Last Date of Test: October 02, 2015 Sensogram Technologies, Inc. Model: SensoSCAN

Radio Equipment Testing

Standards

Specification	Method
FCC 15.207:2015	ANSI C63.10:2013
FCC 15.247:2015	ANSI C63.10:2013

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6, 11.12.1, 11.13.2	Spurious Radiated Emissions	Yes	Pass	
6.10.4	Band Edge Compliance	Yes	Pass	
11.6	Duty Cycle	Yes	Pass	
11.8.2	Occupied Bandwidth	Yes	Pass	
11.9	Output Power	Yes	Pass	
11.10	Power Spectral Density	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Jeremiah Darden, 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.

REVISION HISTORY



Revision Number	Description	Date	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 Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

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

Korea

MSIP / 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:

http://www.nwemc.com/accreditations/ http://gsi.nist.gov/global/docs/cabs/designations.html

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 WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. 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	<u>- MU</u>
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 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)	4.9 dB	-4.9 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

FACILITIES







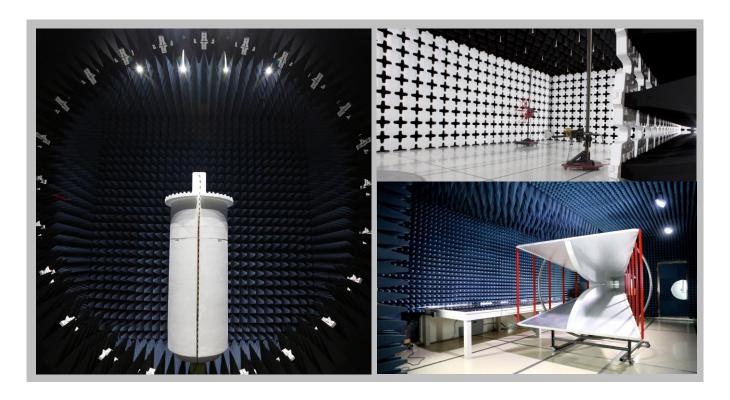
California		
Labs OC01-13		
41 Tesla		
Irvine, CA 92618		
(949) 861-8918		

Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214 Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 **Texas**Labs TX01-09
3801 E Plano Pkwy
Plano, TX 75074
(469) 304-5255

WashingtonLabs NC01-05
19201 120th Ave NE
Bothell, WA 9801
(425)984-6600

6/53

(949) 861-8918	(612)-638-5136	(315) 554-8214	(503) 844-4066	(469) 304-5255	(425)984-6600	
	NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0	
	Industry Canada					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1	
		BS	МІ			
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R	
	VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110	
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA						
US0158	US0175	N/A	US0017	US0191	US0157	



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Sensogram Technologies, Inc.
Address:	1400 Preston Road Suite 400
City, State, Zip:	Plano, TX 75093
Test Requested By:	Navin Bhandarkar
Model:	SensoSCAN
First Date of Test:	October 01, 2015
Last Date of Test:	October 02, 2015
Receipt Date of Samples:	October 01, 2015
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Vital sensor with Bluetooth LE that provides continuous reading, transmitting, storing, and analysis of the following parameters: Blood pressure, Respiration rate, Oxygen saturation, Heart rate, and Skin temperature.

Testing Objective:

To demonstrate compliance of the Bluetooth LE radio to FCC 15.247 requirements.

CONFIGURATIONS



Configuration SNSO0001-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Finger Sensor	Sensogram Technologies, Inc.	SensoSCAN (S-300)	None

Peripherals in test setup boundary				
Description	Manufacturer	Model/Part Number	Serial Number	
PC	Dell	Latitude E5440	GG6SVZ1	
AC/DC Adapter (PC)	Dell	LA65NM130	None	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	0.7m	No	AC/DC Adapter (PC)	AC Mains
DC Cable	No	1.8m	No	PC	AC/DC Adapter (PC)
USB Cable	No	0.3m	No	Finger Sensor	PC

Configuration SNSO0001-4

EUT				
Description	Manufacturer	Model/Part Number	Serial Number	
Finger Sensor (Direct Connect)	Sensogram Technologies, Inc.	SensoSCAN (S-300)	None	

Peripherals in test setup boundary				
Description Manufacturer Model/Part Number Serial Number				
PC	Dell	Latitude E5440	GG6SVZ1	
AC/DC Adapter (PC)	Dell	LA65NM130	None	

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
AC Cable	No	0.7m	No	AC/DC Adapter (PC)	AC Mains		
DC Cable	No	1.8m	No	PC	AC/DC Adapter (PC)		
USB Cable	No	0.3m	No	Finger Sensor	PC		

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
		Spurious	Tested as	No EMI suppression	EUT remained at
1	10/1/2015	Radiated	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
		Spurious	Tested as	No EMI suppression	EUT remained at
2	10/2/2015	Conducted	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
			Tested as	No EMI suppression	EUT remained at
3	10/2/2015	Duty Cycle	delivered to	devices were added or	Northwest EMC
			Test Station.	modified during this test.	following the test.
		Powerline	Tested as	No EMI suppression	EUT remained at
4	10/2/2015	Conducted	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
		Occupied	Tested as	No EMI suppression	EUT remained at
5	10/2/2015	Bandwidth	delivered to	devices were added or	Northwest EMC
		Danawian	Test Station.	modified during this test.	following the test.
		Band Edge	Tested as	No EMI suppression	EUT remained at
6	10/2/2015	Compliance	delivered to	devices were added or	Northwest EMC
		Compliance	Test Station.	modified during this test.	following the test.
		Output	Tested as	No EMI suppression	EUT remained at
7	10/2/2015	Power	delivered to	devices were added or	Northwest EMC
		1 OWEI	Test Station.	modified during this test.	following the test.
		Power	Tested as	No EMI suppression	Scheduled testing
8	10/2/2015	Spectral	delivered to	devices were added or	was completed.
		Density	Test Station.	modified during this test.	was completed.



TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESCI	ARF	6/9/2015	6/9/2016
Cable - Conducted Cable Assembly	Northwest EMC	TXA, HHZ, TQR	TXAA	5/27/2015	5/27/2016
LISN	Solar Electronics	9252-50-R-24-BNC	LJK	9/23/2015	9/23/2016

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.4 dB	-2.4 dB

CONFIGURATIONS INVESTIGATED

SNSO0001-1

MODES INVESTIGATED

Transmitting BLE High Channel @ 2480MHz

Transmitting BLE Low Channel @ 2402MHz

Transmitting BLE Mid Channel @ 2442MHz



EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #: 4 Line: High Line A	Add. Ext. Attenuation (dB): 0	5
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COMMENTS

None

EUT OPERATING MODES

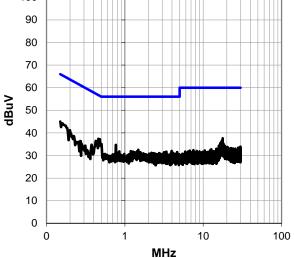
Transmitting BLE Low Channel @ 2402MHz

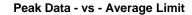
DEVIATIONS FROM TEST STANDARD

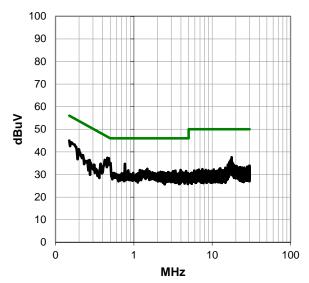
None



Peak Data - vs - Quasi Peak Limit









RESULTS - Run #4

Peak Data - vs - Quasi Peak Limit

	1 oak Ba	ia vo a	tuasi i car		
Freq	Amp.	Factor	Adjusted	Spec. Limit	Margin
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)
0.460	17.6	19.8	37.4	56.7	-19.3
0.426	16.6	19.9	36.5	57.3	-20.9
0.150	25.2	19.8	45.0	66.0	-21.0
0.769	14.9	19.8	34.7	56.0	-21.3
0.199	21.3	19.9	41.2	63.7	-22.5
17.770	16.8	20.7	37.5	60.0	-22.5
17.371	15.9	20.7	36.6	60.0	-23.4
1.486	12.7	19.8	32.5	56.0	-23.5
0.378	14.9	19.9	34.8	58.3	-23.6
1.195	12.2	19.8	32.0	56.0	-24.0
3.955	12.0	19.9	31.9	56.0	-24.1
1.433	12.1	19.8	31.9	56.0	-24.1
0.851	11.9	19.9	31.8	56.0	-24.2
16.871	15.1	20.7	35.8	60.0	-24.2
1.247	11.9	19.8	31.7	56.0	-24.3
1.280	11.9	19.8	31.7	56.0	-24.3
3.388	11.8	19.9	31.7	56.0	-24.3
1.221	11.7	19.8	31.5	56.0	-24.5
17.084	14.8	20.7	35.5	60.0	-24.5
1.583	11.7	19.8	31.5	56.0	-24.5
16.573	14.8	20.7	35.5	60.0	-24.5
17.927	14.7	20.7	35.4	60.0	-24.6
4.642	11.5	19.9	31.4	56.0	-24.6
3.172	11.5	19.9	31.4	56.0	-24.6
0.269	16.6	19.8	36.4	61.1	-24.7
0.803	11.4	19.9	31.3	56.0	-24.7

	Peak Da	ata - vs - /	Average L	imit	
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.460	17.6	19.8	37.4	46.7	-9.3
0.426	16.6	19.9	36.5	47.3	-10.9
0.150	25.2	19.8	45.0	56.0	-11.0
0.769	14.9	19.8	34.7	46.0	-11.3
0.199	21.3	19.9	41.2	53.7	-12.5
17.770	16.8	20.7	37.5	50.0	-12.5
17.371	15.9	20.7	36.6	50.0	-13.4
1.486	12.7	19.8	32.5	46.0	-13.5
0.378	14.9	19.9	34.8	48.3	-13.6
1.195	12.2	19.8	32.0	46.0	-14.0
3.955	12.0	19.9	31.9	46.0	-14.1
1.433	12.1	19.8	31.9	46.0	-14.1
0.851	11.9	19.9	31.8	46.0	-14.2
16.871	15.1	20.7	35.8	50.0	-14.2
1.247	11.9	19.8	31.7	46.0	-14.3
1.280	11.9	19.8	31.7	46.0	-14.3
3.388	11.8	19.9	31.7	46.0	-14.3
1.221	11.7	19.8	31.5	46.0	-14.5
17.084	14.8	20.7	35.5	50.0	-14.5
1.583	11.7	19.8	31.5	46.0	-14.5
16.573	14.8	20.7	35.5	50.0	-14.5
17.927	14.7	20.7	35.4	50.0	-14.6
4.642	11.5	19.9	31.4	46.0	-14.6
3.172	11.5	19.9	31.4	46.0	-14.6
0.269	16.6	19.8	36.4	51.1	-14.7
0.803	11.4	19.9	31.3	46.0	-14.7

CONCLUSION

Pass

Tested By



EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #: 5 Line: Neutral	Add. Ext. Attenuation (dB): 0
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COMMENTS

None

EUT OPERATING MODES

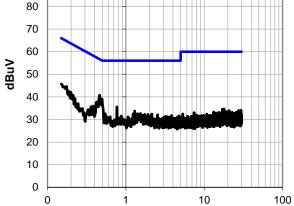
Transmitting BLE Low Channel @ 2402MHz

DEVIATIONS FROM TEST STANDARD

None

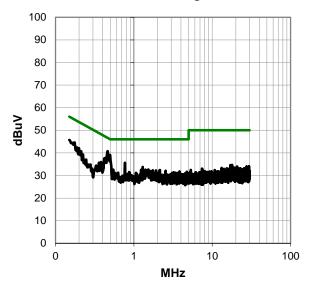


Peak Data - vs - Quasi Peak Limit



MHz

Peak Data - vs - Average Limit





RESULTS - Run #5

Peak Data - vs - Quasi Peak Limit

	Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)			
0.463	21.0	19.8	40.8	56.6	-15.9			
0.150	25.9	19.8	45.7	66.0	-20.3			
0.769	15.8	19.8	35.6	56.0	-20.4			
1.295	14.0	19.8	33.8	56.0	-22.2			
0.381	16.1	19.9	36.0	58.3	-22.3			
0.359	15.8	19.9	35.7	58.8	-23.1			
1.530	12.9	19.8	32.7	56.0	-23.3			
1.400	12.8	19.8	32.6	56.0	-23.4			
0.545	12.8	19.8	32.6	56.0	-23.4			
1.236	12.7	19.8	32.5	56.0	-23.5			
2.146	12.5	19.9	32.4	56.0	-23.6			
1.747	12.5	19.8	32.3	56.0	-23.7			
1.915	12.4	19.8	32.2	56.0	-23.8			
2.120	12.3	19.9	32.2	56.0	-23.8			
1.269	12.3	19.8	32.1	56.0	-23.9			
2.541	12.2	19.9	32.1	56.0	-24.0			
1.683	12.1	19.8	31.9	56.0	-24.1			
3.829	11.8	19.9	31.7	56.0	-24.3			
2.523	11.8	19.9	31.7	56.0	-24.4			
4.750	11.7	19.9	31.6	56.0	-24.4			
0.870	11.6	19.9	31.5	56.0	-24.5			
3.213	11.6	19.9	31.5	56.0	-24.5			
1.948	11.6	19.8	31.4	56.0	-24.6			
0.631	11.5	19.8	31.3	56.0	-24.7			
3.407	11.3	19.9	31.2	56.0	-24.8			
1.064	11.4	19.8	31.2	56.0	-24.8			

Peak Data - vs - Average Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.463	21.0	19.8	40.8	46.6	-5.9
0.150	25.9	19.8	45.7	56.0	-10.3
0.769	15.8	19.8	35.6	46.0	-10.4
1.295	14.0	19.8	33.8	46.0	-12.2
0.381	16.1	19.9	36.0	48.3	-12.3
0.359	15.8	19.9	35.7	48.8	-13.1
1.530	12.9	19.8	32.7	46.0	-13.3
1.400	12.8	19.8	32.6	46.0	-13.4
0.545	12.8	19.8	32.6	46.0	-13.4
1.236	12.7	19.8	32.5	46.0	-13.5
2.146	12.5	19.9	32.4	46.0	-13.6
1.747	12.5	19.8	32.3	46.0	-13.7
1.915	12.4	19.8	32.2	46.0	-13.8
2.120	12.3	19.9	32.2	46.0	-13.8
1.269	12.3	19.8	32.1	46.0	-13.9
2.541	12.2	19.9	32.1	46.0	-14.0
1.683	12.1	19.8	31.9	46.0	-14.1
3.829	11.8	19.9	31.7	46.0	-14.3
2.523	11.8	19.9	31.7	46.0	-14.4
4.750	11.7	19.9	31.6	46.0	-14.4
0.870	11.6	19.9	31.5	46.0	-14.5
3.213	11.6	19.9	31.5	46.0	-14.5
1.948	11.6	19.8	31.4	46.0	-14.6
0.631	11.5	19.8	31.3	46.0	-14.7
3.407	11.3	19.9	31.2	46.0	-14.8
1.064	11.4	19.8	31.2	46.0	-14.8

CONCLUSION

Pass

Tested By



15/53

EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #: 6	Line	e: Higl	n Line	Add. Ext. Attenuation (dB):	0
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COMMENTS

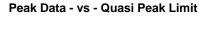
None

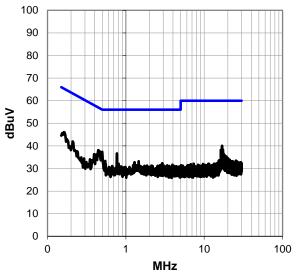
EUT OPERATING MODES

Transmitting BLE Mid Channel @ 2442MHz

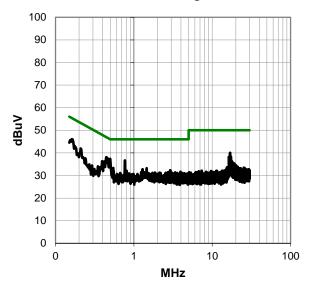
DEVIATIONS FROM TEST STANDARD

None





Peak Data - vs - Average Limit





RESULTS - Run #6

Peak Data - vs - Quasi Peak Limit

	T OUR DU	10 VO G	luasi Peai	Spec.	
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Limit (dBuV)	Margin (dB)
0.501	17.6	19.8	37.4	56.0	-18.6
0.445	18.3	19.8	38.1	57.0	-18.9
0.769	16.9	19.8	36.7	56.0	-19.3
0.161	26.2	19.9	46.1	65.4	-19.3
16.927	19.3	20.7	40.0	60.0	-20.0
0.210	22.1	19.9	42.0	63.2	-21.2
0.393	16.5	19.9	36.4	58.0	-21.7
17.338	17.6	20.7	38.3	60.0	-21.7
16.364	17.6	20.6	38.2	60.0	-21.8
17.017	16.9	20.7	37.6	60.0	-22.4
0.545	13.6	19.8	33.4	56.0	-22.6
1.460	13.4	19.8	33.2	56.0	-22.8
1.292	13.0	19.8	32.8	56.0	-23.2
17.129	16.0	20.7	36.7	60.0	-23.3
17.640	15.8	20.7	36.5	60.0	-23.5
16.509	15.7	20.7	36.4	60.0	-23.6
2.929	12.4	19.9	32.3	56.0	-23.7
16.894	15.5	20.7	36.2	60.0	-23.8
0.807	12.3	19.9	32.2	56.0	-23.8
17.614	15.4	20.7	36.1	60.0	-23.9
17.420	15.3	20.7	36.0	60.0	-24.0
2.870	12.1	19.9	32.0	56.0	-24.0
17.528	15.1	20.7	35.8	60.0	-24.2
16.304	15.1	20.6	35.7	60.0	-24.3
17.360	15.0	20.7	35.7	60.0	-24.3
17.192	15.0	20.7	35.7	60.0	-24.3

Peak Data - vs - Average Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.501	17.6	19.8	37.4	46.0	-8.6
0.445	18.3	19.8	38.1	47.0	-8.9
0.769	16.9	19.8	36.7	46.0	-9.3
0.161	26.2	19.9	46.1	55.4	-9.3
16.927	19.3	20.7	40.0	50.0	-10.0
0.210	22.1	19.9	42.0	53.2	-11.2
0.393	16.5	19.9	36.4	48.0	-11.7
17.338	17.6	20.7	38.3	50.0	-11.7
16.364	17.6	20.6	38.2	50.0	-11.8
17.017	16.9	20.7	37.6	50.0	-12.4
0.545	13.6	19.8	33.4	46.0	-12.6
1.460	13.4	19.8	33.2	46.0	-12.8
1.292	13.0	19.8	32.8	46.0	-13.2
17.129	16.0	20.7	36.7	50.0	-13.3
17.640	15.8	20.7	36.5	50.0	-13.5
16.509	15.7	20.7	36.4	50.0	-13.6
2.929	12.4	19.9	32.3	46.0	-13.7
16.894	15.5	20.7	36.2	50.0	-13.8
0.807	12.3	19.9	32.2	46.0	-13.8
17.614	15.4	20.7	36.1	50.0	-13.9
17.420	15.3	20.7	36.0	50.0	-14.0
2.870	12.1	19.9	32.0	46.0	-14.0
17.528	15.1	20.7	35.8	50.0	-14.2
16.304	15.1	20.6	35.7	50.0	-14.3
17.360	15.0	20.7	35.7	50.0	-14.3
17.192	15.0	20.7	35.7	50.0	-14.3

CONCLUSION

Pass

Tested By



17/53

EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #: 7 Line: Neutral	Add. Ext. Attenuation (dB): 0	
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COMMENTS

100

None

EUT OPERATING MODES

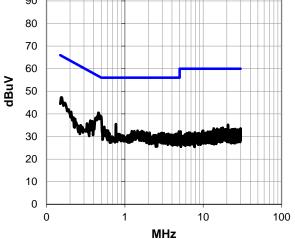
Transmitting BLE Mid Channel @ 2442MHz

DEVIATIONS FROM TEST STANDARD

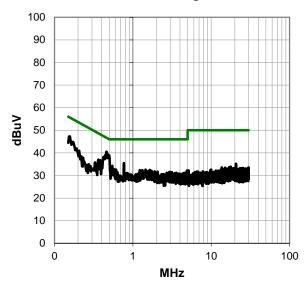
None



Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit





RESULTS - Run #7

Peak Data - vs - Quasi Peak Limit

	1 oak ba	ia - vs - G	daoi i cai		
Freq	Amp.	Factor	Adjusted	Spec. Limit	Margin
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)
0.460	20.7	19.8	40.5	56.7	-16.2
0.157	27.4	19.9	47.3	65.6	-18.3
0.769	15.7	19.8	35.5	56.0	-20.5
0.385	16.9	19.9	36.8	58.2	-21.4
0.363	17.2	19.9	37.1	58.7	-21.6
0.545	14.5	19.8	34.3	56.0	-21.7
1.452	12.8	19.8	32.6	56.0	-23.4
0.613	12.8	19.8	32.6	56.0	-23.4
1.642	12.7	19.8	32.5	56.0	-23.5
1.325	12.6	19.8	32.4	56.0	-23.6
1.228	12.6	19.8	32.4	56.0	-23.6
0.329	15.9	19.9	35.8	59.5	-23.7
4.910	12.2	19.9	32.1	56.0	-23.9
1.732	12.3	19.8	32.1	56.0	-23.9
1.560	12.1	19.8	31.9	56.0	-24.1
1.900	11.9	19.8	31.7	56.0	-24.3
2.064	11.8	19.9	31.7	56.0	-24.3
4.847	11.6	19.9	31.5	56.0	-24.5
2.959	11.6	19.9	31.5	56.0	-24.5
3.146	11.6	19.9	31.5	56.0	-24.5
0.232	18.0	19.8	37.8	62.4	-24.6
1.780	11.6	19.8	31.4	56.0	-24.6
2.870	11.5	19.9	31.4	56.0	-24.6
1.198	11.5	19.8	31.3	56.0	-24.7
2.698	11.4	19.8	31.2	56.0	-24.8
3.582	11.3	19.9	31.2	56.0	-24.8

Peak Data - vs - Average Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.460	20.7	19.8	40.5	46.7	-6.2
0.157	27.4	19.9	47.3	55.6	-8.3
0.769	15.7	19.8	35.5	46.0	-10.5
0.385	16.9	19.9	36.8	48.2	-11.4
0.363	17.2	19.9	37.1	48.7	-11.6
0.545	14.5	19.8	34.3	46.0	-11.7
1.452	12.8	19.8	32.6	46.0	-13.4
0.613	12.8	19.8	32.6	46.0	-13.4
1.642	12.7	19.8	32.5	46.0	-13.5
1.325	12.6	19.8	32.4	46.0	-13.6
1.228	12.6	19.8	32.4	46.0	-13.6
0.329	15.9	19.9	35.8	49.5	-13.7
4.910	12.2	19.9	32.1	46.0	-13.9
1.732	12.3	19.8	32.1	46.0	-13.9
1.560	12.1	19.8	31.9	46.0	-14.1
1.900	11.9	19.8	31.7	46.0	-14.3
2.064	11.8	19.9	31.7	46.0	-14.3
4.847	11.6	19.9	31.5	46.0	-14.5
2.959	11.6	19.9	31.5	46.0	-14.5
3.146	11.6	19.9	31.5	46.0	-14.5
0.232	18.0	19.8	37.8	52.4	-14.6
1.780	11.6	19.8	31.4	46.0	-14.6
2.870	11.5	19.9	31.4	46.0	-14.6
1.198	11.5	19.8	31.3	46.0	-14.7
2.698	11.4	19.8	31.2	46.0	-14.8
3.582	11.3	19.9	31.2	46.0	-14.8

CONCLUSION

Pass

Tested By



19/53

EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #: 8 Line:	High Line	Add. Ext. Attenuation (dB):	0
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COMMENTS

None

EUT OPERATING MODES

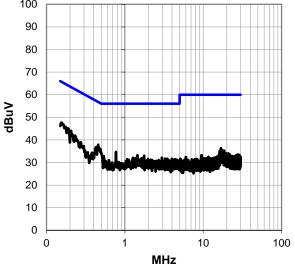
Transmitting BLE High Channel @ 2480MHz

DEVIATIONS FROM TEST STANDARD

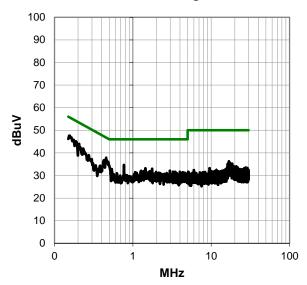
None



Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit





RESULTS - Run #8

Peak Data - vs - Quasi Peak Limit

		ia - vs - G		Spec.	
Freq	Amp.	Factor	Adjusted	Limit	Margin
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)
0.157	27.8	19.9	47.7	65.6	-17.9
0.456	18.1	19.8	37.9	56.8	-18.9
0.206	24.1	19.9	44.0	63.4	-19.4
0.426	16.9	19.9	36.8	57.3	-20.6
0.769	14.9	19.8	34.7	56.0	-21.3
1.448	13.4	19.8	33.2	56.0	-22.8
1.765	13.2	19.8	33.0	56.0	-23.0
0.538	13.1	19.8	32.9	56.0	-23.1
16.815	15.6	20.7	36.3	60.0	-23.7
1.460	12.4	19.8	32.2	56.0	-23.8
2.970	12.2	19.9	32.1	56.0	-23.9
1.277	12.3	19.8	32.1	56.0	-23.9
1.366	12.2	19.8	32.0	56.0	-24.0
1.650	12.1	19.8	31.9	56.0	-24.1
1.385	12.0	19.8	31.8	56.0	-24.2
16.972	15.1	20.7	35.8	60.0	-24.2
1.258	11.9	19.8	31.7	56.0	-24.3
3.265	11.8	19.9	31.7	56.0	-24.3
1.609	11.9	19.8	31.7	56.0	-24.3
3.967	11.7	19.9	31.6	56.0	-24.4
1.978	11.8	19.8	31.6	56.0	-24.4
3.467	11.7	19.9	31.6	56.0	-24.4
16.868	14.9	20.7	35.6	60.0	-24.4
17.521	14.8	20.7	35.5	60.0	-24.5
1.075	11.7	19.8	31.5	56.0	-24.5
4.362	11.5	19.9	31.4	56.0	-24.6

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.157	27.8	19.9	47.7	55.6	-7.9	
0.456	18.1	19.8	37.9	46.8	-8.9	
0.206	24.1	19.9	44.0	53.4	-9.4	
0.426	16.9	19.9	36.8	47.3	-10.6	
0.769	14.9	19.8	34.7	46.0	-11.3	
1.448	13.4	19.8	33.2	46.0	-12.8	
1.765	13.2	19.8	33.0	46.0	-13.0	
0.538	13.1	19.8	32.9	46.0	-13.1	
16.815	15.6	20.7	36.3	50.0	-13.7	
1.460	12.4	19.8	32.2	46.0	-13.8	
2.970	12.2	19.9	32.1	46.0	-13.9	
1.277	12.3	19.8	32.1	46.0	-13.9	
1.366	12.2	19.8	32.0	46.0	-14.0	
1.650	12.1	19.8	31.9	46.0	-14.1	
1.385	12.0	19.8	31.8	46.0	-14.2	
16.972	15.1	20.7	35.8	50.0	-14.2	
1.258	11.9	19.8	31.7	46.0	-14.3	
3.265	11.8	19.9	31.7	46.0	-14.3	
1.609	11.9	19.8	31.7	46.0	-14.3	
3.967	11.7	19.9	31.6	46.0	-14.4	
1.978	11.8	19.8	31.6	46.0	-14.4	
3.467	11.7	19.9	31.6	46.0	-14.4	
16.868	14.9	20.7	35.6	50.0	-14.4	
17.521	14.8	20.7	35.5	50.0	-14.5	
1.075	11.7	19.8	31.5	46.0	-14.5	
4.362	11.5	19.9	31.4	46.0	-14.6	

CONCLUSION

Pass

Tested By



EUT:	SensoSCAN	Work Order:	SNSO0001
Serial Number:	None	Date:	10/02/2015
Customer:	Sensogram Technologies, Inc.	Temperature:	23.9°C
Attendees:	None	Relative Humidity:	40.6%
Customer Project:	None	Bar. Pressure:	1022 mb
Tested By:	Frank Sun	Job Site:	TX01
Power:	USB via 110VAC/60Hz	Configuration:	SNSO0001-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2013

TEST PARAMETERS

Run #:	9	Line:	Neutral	Add. Ext. Attenuation (dB)	 0

COMMENTS

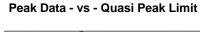
None

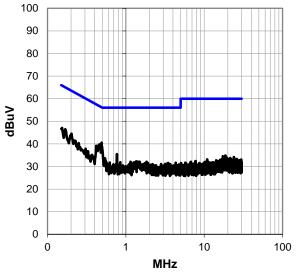
EUT OPERATING MODES

Transmitting BLE High Channel @ 2480MHz

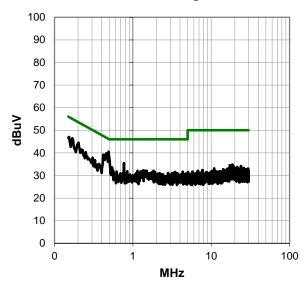
DEVIATIONS FROM TEST STANDARD

None





Peak Data - vs - Average Limit





RESULTS - Run #9

Peak Data - vs - Quasi Peak Limit

Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.490	20.8	19.8	40.6	56.2	-15.6		
0.460	20.0	19.8	39.8	56.7	-16.9		
0.169	26.6	19.9	46.5	65.0	-18.5		
0.154	27.2	19.9	47.1	65.8	-18.7		
0.202	24.6	19.9	44.5	63.5	-19.0		
0.769	15.7	19.8	35.5	56.0	-20.5		
0.542	13.9	19.8	33.7	56.0	-22.3		
1.359	12.5	19.8	32.3	56.0	-23.7		
1.836	12.3	19.8	32.1	56.0	-23.9		
1.504	12.3	19.8	32.1	56.0	-23.9		
1.146	12.3	19.8	32.1	56.0	-23.9		
0.851	12.0	19.9	31.9	56.0	-24.1		
0.624	12.0	19.8	31.8	56.0	-24.2		
4.328	11.7	19.9	31.6	56.0	-24.4		
1.915	11.7	19.8	31.5	56.0	-24.5		
1.769	11.7	19.8	31.5	56.0	-24.5		
3.470	11.6	19.9	31.5	56.0	-24.5		
0.572	11.7	19.8	31.5	56.0	-24.5		
3.441	11.4	19.9	31.3	56.0	-24.7		
3.538	11.3	19.9	31.2	56.0	-24.8		
3.508	11.3	19.9	31.2	56.0	-24.8		
3.288	11.3	19.9	31.2	56.0	-24.8		
1.881	11.3	19.8	31.1	56.0	-24.9		
2.814	11.3	19.8	31.1	56.0	-24.9		
3.168	11.2	19.9	31.1	56.0	-24.9		
2.202	11.2	19.8	31.0	56.0	-25.0		

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.490	20.8	19.8	40.6	46.2	-5.6	
0.460	20.0	19.8	39.8	46.7	-6.9	
0.169	26.6	19.9	46.5	55.0	-8.5	
0.154	27.2	19.9	47.1	55.8	-8.7	
0.202	24.6	19.9	44.5	53.5	-9.0	
0.769	15.7	19.8	35.5	46.0	-10.5	
0.542	13.9	19.8	33.7	46.0	-12.3	
1.359	12.5	19.8	32.3	46.0	-13.7	
1.836	12.3	19.8	32.1	46.0	-13.9	
1.504	12.3	19.8	32.1	46.0	-13.9	
1.146	12.3	19.8	32.1	46.0	-13.9	
0.851	12.0	19.9	31.9	46.0	-14.1	
0.624	12.0	19.8	31.8	46.0	-14.2	
4.328	11.7	19.9	31.6	46.0	-14.4	
1.915	11.7	19.8	31.5	46.0	-14.5	
1.769	11.7	19.8	31.5	46.0	-14.5	
3.470	11.6	19.9	31.5	46.0	-14.5	
0.572	11.7	19.8	31.5	46.0	-14.5	
3.441	11.4	19.9	31.3	46.0	-14.7	
3.538	11.3	19.9	31.2	46.0	-14.8	
3.508	11.3	19.9	31.2	46.0	-14.8	
3.288	11.3	19.9	31.2	46.0	-14.8	
1.881	11.3	19.8	31.1	46.0	-14.9	
2.814	11.3	19.8	31.1	46.0	-14.9	
3.168	11.2	19.9	31.1	46.0	-14.9	
2.202	11.2	19.8	31.0	46.0	-15.0	

CONCLUSION

Pass

Tested By



SPURIOUS RADIATED EMISSIONS

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 BLE Low, Mid, High Channel @ 2402, 2442, 2480MHz

POWER SETTINGS INVESTIGATED

USB via 110VAC/60Hz

CONFIGURATIONS INVESTIGATED

SNSO0001 - 1

FREQUENCY RANGE INVESTIGATED

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
Filter - High Pass	Micro-Tronics	HPM50111	HHX	8/11/2015	12 mo
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	8/11/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	10/27/2014	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	10/27/2014	12 mo
Cable	Northwest EMC	8-18GHz	TXD	10/27/2014	12 mo
Amplifier - Pre-Amplifier	Miteq	JSDQK42-18004000-60-5P	PAM	11/21/2014	12 mo
Cable	Northwest EMC	18-40GHz	TXE	11/21/2014	12 mo
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	4/23/2014	24 mo
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	NCR	0 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	NCR	0 mo
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	9/18/2015	12 mo
Cable	Northwest EMC	1-8.2 GHz	TXC	9/18/2015	12 mo
Antenna - Double Ridge	ETS Lindgren	3115	AJL	9/15/2014	24 mo
Amplifier - Pre-Amplifier	Miteq	AM-1551	PAH	9/18/2015	12 mo
Cable	Northwest EMC	RE 9kHz - 1GHz	TXB	9/18/2015	12 mo
Antenna - Biconilog	ETS Lindgren	3143B	AYF	4/7/2014	24 mo
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	1/28/2015	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(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 highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity. A duty cycle correction was used based on the actual operating mode during normal use. A calculation is provided within the comment section of the datasheet.

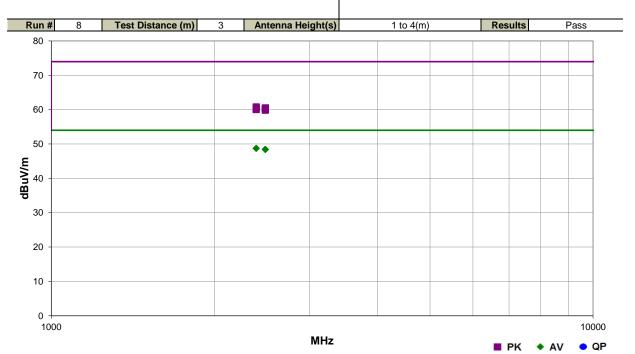


SPURIOUS RADIATED EMISSIONS

Work Order:	SNSO0001	Date:	10/01/15	
Project:		Temperature:	24.1 °C	py
Job Site:	TX02	Humidity:	43.9% RH	w 27
Serial Number:	None	Barometric Pres.:	1021 mbar	Tested by: Frank Sun
EUT:	SensoSCAN			
Configuration:	1			
Customer:	Sensogram Technolog	gies, Inc.		
Attendees:	None			
EUT Power:	USB via 110VAC/60H	Z		
Operating Mode:	Transmitting BLE Low	, High Channel @ 2402	, 2480MHz	
Deviations:	None			
Comments:	Band Edge			

Test Specifications FCC 15.247:2015

Test Method ANSI C63.10:2013



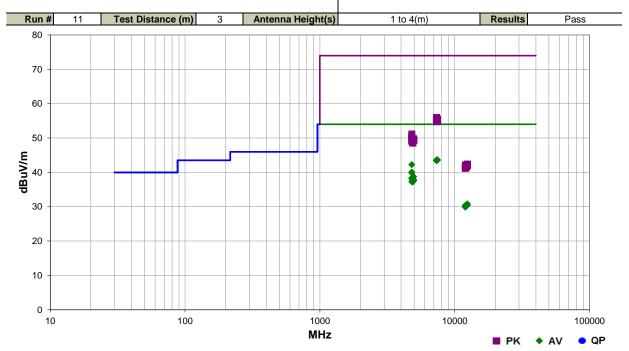
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2389.610	33.1	-4.4	1.0	132.0	3.0	20.0	Vert	AV	0.0	48.7	54.0	-5.3	Low Ch, EUT Horz
2389.738	33.1	-4.4	1.0	130.9	3.0	20.0	Vert	AV	0.0	48.7	54.0	-5.3	Low Ch, EUT Side
2389.773	33.1	-4.4	2.2	193.0	3.0	20.0	Vert	AV	0.0	48.7	54.0	-5.3	Low Ch, EUT Horz
2389.225	33.1	-4.4	1.0	277.0	3.0	20.0	Horz	AV	0.0	48.7	54.0	-5.3	Low Ch, EUT Side
2483.580	32.8	-4.4	1.0	274.9	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Vert
2484.258	32.8	-4.4	3.9	39.9	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Side
2483.513	32.8	-4.4	1.0	240.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Horz
2484.028	32.8	-4.4	1.0	126.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Side
2483.535	32.8	-4.4	2.4	120.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Vert
2483.555	32.8	-4.4	1.0	289.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High Ch, EUT Horz
2389.933	45.2	-4.4	1.0	132.0	3.0	20.0	Vert	PK	0.0	60.8	74.0	-13.2	Low Ch, EUT Horz
2389.870	45.1	-4.4	1.0	277.0	3.0	20.0	Horz	PK	0.0	60.7	74.0	-13.3	Low Ch, EUT Side
2484.077	44.9	-4.4	1.0	240.0	3.0	20.0	Horz	PK	0.0	60.5	74.0	-13.5	High Ch, EUT Horz
2484.117	44.9	-4.4	1.0	126.0	3.0	20.0	Horz	PK	0.0	60.5	74.0	-13.5	High Ch, EUT Side
2484.148	44.7	-4.4	3.9	39.9	3.0	20.0	Vert	PK	0.0	60.3	74.0	-13.7	High Ch, EUT Side
2483.707	44.5	-4.4	1.0	274.9	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	High Ch, EUT Vert
2484.253	44.5	-4.4	1.0	289.0	3.0	20.0	Vert	PK	0.0	60.1	74.0	-13.9	High Ch, EUT Horz
2389.882	44.5	-4.4	1.0	130.9	3.0	20.0	Vert	PK	0.0	60.1	74.0	-13.9	Low Ch, EUT Side
2389.062	44.4	-4.4	2.2	193.0	3.0	20.0	Vert	PK	0.0	60.0	74.0	-14.0	Low Ch, EUT Horz
2483.960	44.2	-4.4	2.4	120.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	High Ch, EUT Vert



SPURIOUS RADIATED EMISSIONS

Work Order:	SNSO0001	Date:	10/01/15	4.41)
Project:	None	Temperature:	24.1 °C	perfer
Job Site:	TX02	Humidity:	43.9% RH	
Serial Number:	None	Barometric Pres.:	1021 mbar	Tested by: Frank Sun
EUT:	SensoSCAN			
Configuration:	1			
Customer:	Sensogram Technolog	gies, Inc.		
Attendees:	None			
EUT Power:	USB via 110VAC/60H	Z		
Operating Mode:	Transmitting BLE Low	, Mid, High Channel @ 2	2402, 2442, 2480MH	z
Deviations:	None			
Comments:	None			

Test Specifications FCC 15.247:2015 N/A **Test Method** ANSI C63.10:2013



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)	Comments
7441.410	30.2	13.4	1.0	67.0	3.0	0.0	Horz	AV	0.0	43.6	54.0	-10.4	High Ch, EUT Vert
7441.295	30.2	13.4	3.0	108.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	High Ch, EUT Horz
7441.110	30.2	13.4	1.0	315.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	High Ch, EUT Side
7440.825	30.2	13.4	1.0	90.0	3.0	0.0	Horz	AV	0.0	43.6	54.0	-10.4	High Ch, EUT Horz
7440.650	30.2	13.4	2.3	0.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	High Ch, EUT Vert
7326.480	30.3	13.3	1.0	68.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	Mid Ch, EUT Horz
7441.270	30.1	13.4	3.0	328.9	3.0	0.0	Horz	AV	0.0	43.5	54.0	-10.5	High Ch, EUT Side
7327.200	30.2	13.3	1.0	144.0	3.0	0.0	Horz	AV	0.0	43.5	54.0	-10.5	Mid Ch, EUT Vert
7326.920	30.2	13.3	1.0	0.0	3.0	0.0	Vert	AV	0.0	43.5	54.0	-10.5	Mid Ch, EUT Vert
7326.790	30.2	13.3	1.0	358.9	3.0	0.0	Horz	AV	0.0	43.5	54.0	-10.5	Mid Ch, EUT Side
7326.655	30.2	13.3	1.0	175.0	3.0	0.0	Horz	AV	0.0	43.5	54.0	-10.5	Mid Ch, EUT Horz
7326.315	30.2	13.3	1.0	315.9	3.0	0.0	Vert	AV	0.0	43.5	54.0	-10.5	Mid Ch, EUT Side
4803.960	35.1	7.2	1.7	309.0	3.0	0.0	Vert	AV	0.0	42.3	54.0	-11.7	Low Ch, EUT Horz
4803.940	32.9	7.2	1.6	345.0	3.0	0.0	Horz	AV	0.0	40.1	54.0	-13.9	Low Ch, EUT Vert
4804.060	32.7	7.2	2.0	256.9	3.0	0.0	Horz	AV	0.0	39.9	54.0	-14.1	Low Ch, EUT Horz
4960.070	31.1	7.7	2.6	249.9	3.0	0.0	Horz	AV	0.0	38.8	54.0	-15.2	High Ch, EUT Horz
4804.130	31.2	7.2	1.0	206.0	3.0	0.0	Vert	AV	0.0	38.4	54.0	-15.6	Low Ch, EUT Side
4804.040	31.0	7.2	1.0	315.9	3.0	0.0	Vert	AV	0.0	38.2	54.0	-15.8	Low Ch, EUT Vert
4960.105	30.2	7.7	1.0	189.0	3.0	0.0	Vert	AV	0.0	37.9	54.0	-16.1	High Ch, EUT Vert
4959.745	30.2	7.7	2.7	170.0	3.0	0.0	Horz	AV	0.0	37.9	54.0	-16.1	High Ch, EUT Vert
4960.105	30.0	7.7	1.0	67.0	3.0	0.0	Vert	AV	0.0	37.7	54.0	-16.3	High Ch, EUT Side
4883.885	30.2	7.4	1.0	337.0	3.0	0.0	Horz	AV	0.0	37.6	54.0	-16.4	Mid Ch, EUT Vert

							Delerity/						
						External	Polarity/ Transducer		Distance			Compared to	
Freq	Amplitude	Factor	Antenna Height	Azimuth	Test Distance	Attenuation	Туре	Detector	Adjustment	Adjusted	Spec. Limit	Spec.	
(MHz)	(dBuV)	(dB)	(meters)	(degrees)	(meters)	(dB)			(dB)	(dBuV/m)	(dBuV/m)	(dB)	Comments
4883.785	30.2	7.4	1.0	273.9	3.0	0.0	Vert	AV	0.0	37.6	54.0	-16.4	Mid Ch, EUT Horz
4961.315	29.9	7.7	1.0	79.0	3.0	0.0	Vert	AV	0.0	37.6	54.0	-16.4	High Ch, EUT Horz
4960.080	29.9	7.7	1.0	306.0	3.0	0.0	Horz	AV	0.0	37.6	54.0	-16.4	High Ch, EUT Side
4883.995	30.0	7.4	1.0	81.9	3.0	0.0	Horz	AV	0.0	37.4	54.0	-16.6	Mid Ch, EUT Horz
4883.805	30.0	7.4	1.0	8.0	3.0	0.0	Vert	AV	0.0	37.4	54.0	-16.6	Mid Ch, EUT Vert
4804.840	30.1	7.2	1.0	352.9	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	Low Ch, EUT Side
4883.875	29.8	7.4	1.0	309.9	3.0	0.0	Vert	AV	0.0	37.2	54.0	-16.8	Mid Ch, EUT Side
4883.295	29.8	7.4	1.0	30.0	3.0	0.0	Horz	AV	0.0	37.2	54.0	-16.8	Mid Ch, EUT Side
7324.920	42.7	13.3	1.0	0.0	3.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	Mid Ch, EUT Vert
7440.045	42.1	13.4	2.3	0.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	High Ch, EUT Vert
7440.895	42.0	13.4	1.0	90.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	High Ch, EUT Horz
7327.230	42.1	13.3	1.0	144.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Mid Ch, EUT Vert
7326.660	42.0	13.3	1.0	315.9	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	Mid Ch, EUT Side
7440.470	41.8	13.4	3.0	328.9	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	High Ch, EUT Side
7440.100	41.8	13.4	1.0	67.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	High Ch, EUT Vert
7438.675	41.8	13.4	3.0	108.0	3.0	0.0	Vert	PK	0.0	55.2	74.0	-18.8	High Ch, EUT Horz
7326.720	41.9	13.3	1.0	175.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Mid Ch, EUT Horz
7324.865	41.9	13.3	1.0	68.0	3.0	0.0	Vert	PK	0.0	55.2	74.0	-18.8	Mid Ch, EUT Horz
7441.035	41.7	13.4	1.0	315.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	High Ch, EUT Side
7324.520	41.5	13.3	1.0	358.9	3.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	Mid Ch, EUT Side
4804.460	44.0	7.2	1.7	309.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Low Ch, EUT Horz
12399.230	31.2	-0.4	1.0	31.0	3.0	0.0	Vert	AV	0.0	30.8	54.0	-23.2	High Ch, EUT Horz
12399.040	31.1	-0.4	1.0	358.9	3.0	0.0	Vert	AV	0.0	30.7	54.0	-23.3	High Ch, EUT Vert
12399.390	31.0	-0.4	1.0	103.0	3.0	0.0	Horz	AV	0.0	30.6	54.0	-23.4	High Ch, EUT Vert
12210.600	31.3	-0.8	1.0	303.0	3.0	0.0	Vert	AV	0.0	30.5	54.0	-23.5	Mid Ch, EUT Horz
12399.240	30.8	-0.4	1.0	153.0	3.0	0.0	Horz	AV	0.0	30.4	54.0	-23.6	High Ch, EUT Horz
12010.700	31.7	-1.3	1.0	8.0	3.0	0.0	Vert	AV	0.0	30.4	54.0	-23.6	Low Ch, EUT Horz
12009.940	31.7	-1.3	1.0	13.0	3.0	0.0	Vert	AV	0.0	30.4	54.0	-23.6	Low Ch, EUT Vert
4803.895	43.2	7.1	1.0	206.0	3.0	0.0	Vert	PK	0.0	50.3	74.0	-23.7	Low Ch, EUT Side
12210.550	31.0	-0.8	1.0	321.9	3.0	0.0	Horz	AV	0.0	30.2	54.0	-23.8	Mid Ch, EUT Horz
4804.210	43.0 31.4	7.2 -1.3	2.0 1.0	256.9	3.0 3.0	0.0 0.0	Horz Horz	PK AV	0.0 0.0	50.2 30.1	74.0 54.0	-23.8 -23.9	Low Ch, EUT Horz
12011.230 4804.520	31.4 42.8	-1.3 7.2	1.6	145.0 345.0	3.0	0.0	Horz	PK	0.0	50.0	74.0	-23.9 -24.0	Low Ch, EUT Vert Low Ch, EUT Vert
12011.450	42.8 31.2	7.2 -1.3	1.0	9.0	3.0	0.0	Horz	AV	0.0	29.9	74.0 54.0	-24.0 -24.1	Low Ch, EUT Horz
4960.550	42.1	-1.3 7.7	2.7	170.0	3.0	0.0	Horz	PK	0.0	49.8	74.0	-24.1	High Ch, EUT Vert
4960.630	41.8	7.7	1.0	189.0	3.0	0.0	Vert	PK	0.0	49.5	74.0	-24.5	High Ch, EUT Vert
4959.650	41.8	7.7	2.6	249.9	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	High Ch, EUT Horz
4959.625	41.8	7.7	1.0	306.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	High Ch, EUT Side
4884.680	41.9	7.4	1.0	337.0	3.0	0.0	Horz	PK	0.0	49.3	74.0	-24.7	Mid Ch, EUT Vert
4884.565	41.9	7.4	1.0	273.9	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	Mid Ch, EUT Horz
4883.675	41.9	7.4	1.0	30.0	3.0	0.0	Horz	PK	0.0	49.3	74.0	-24.7	Mid Ch, EUT Side
4883.510	41.9	7.4	1.0	8.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	Mid Ch, EUT Vert
4961.095	41.6	7.7	1.0	67.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	High Ch, EUT Side
4960.000	41.6	7.7	1.0	79.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	High Ch, EUT Horz
4805.335	42.0	7.2	1.0	352.9	3.0	0.0	Horz	PK	0.0	49.2	74.0	-24.8	Low Ch, EUT Side
4804.710	41.9	7.2	1.0	315.9	3.0	0.0	Vert	PK	0.0	49.1	74.0	-24.9	Low Ch, EUT Vert
4883.380	41.3	7.4	1.0	309.9	3.0	0.0	Vert	PK	0.0	48.7	74.0	-25.3	Mid Ch, EUT Side
4884.560	41.1	7.4	1.0	81.9	3.0	0.0	Horz	PK	0.0	48.5	74.0	-25.5	Mid Ch, EUT Horz
12398.600	42.8	-0.4	1.0	103.0	3.0	0.0	Horz	PK	0.0	42.4	74.0	-31.6	High Ch, EUT Vert
12008.910	43.5	-1.3	1.0	8.0	3.0	0.0	Vert	PK	0.0	42.2	74.0	-31.8	Low Ch, EUT Horz
12399.150	42.5	-0.4	1.0	31.0	3.0	0.0	Vert	PK	0.0	42.1	74.0	-31.9	High Ch, EUT Horz
12399.910	42.3	-0.4	1.0	358.9	3.0	0.0	Vert	PK	0.0	41.9	74.0	-32.1	High Ch, EUT Vert
12398.910	42.3	-0.4	1.0	153.0	3.0	0.0	Horz	PK	0.0	41.9	74.0	-32.1	High Ch, EUT Horz
12009.510	43.1	-1.3	1.0	13.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	Low Ch, EUT Vert
12209.290	42.5	-0.8	1.0	303.0	3.0	0.0	Vert	PK	0.0	41.7	74.0	-32.3	Mid Ch, EUT Horz
12208.750	42.3	-0.8	1.0	321.9	3.0	0.0	Horz	PK	0.0	41.5	74.0	-32.5	Mid Ch, EUT Horz
12011.260	42.7	-1.3	1.0	145.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	Low Ch, EUT Vert
12010.910	42.5	-1.3	1.0	9.0	3.0	0.0	Horz	PK	0.0	41.2	74.0	-32.8	Low Ch, EUT Horz

BAND EDGE COMPLIANCE



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

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

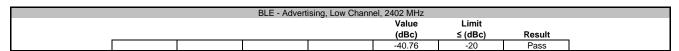
BAND EDGE COMPLIANCE

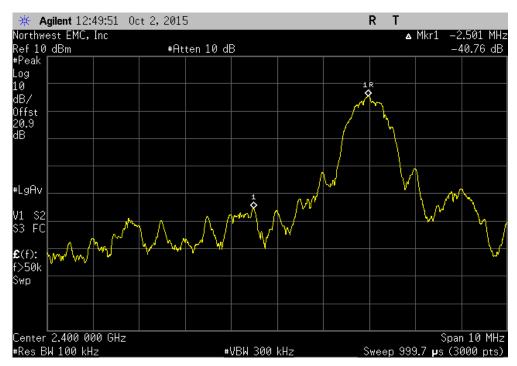


EUT	: SensoSCAN			Work Order:	SNSO0001	
Serial Number	: None			Date:	10/02/15	
Customer	: Sensogram Technologies	, Inc.		Temperature:	24.3°C	
Attendees	: None			Humidity:	39%	
	:: None			Barometric Pres.:	1023	
	: Frank Sun		Power: USB via 110VAC/60Hz	Job Site:	TX09	
TEST SPECIFICAT	TIONS		Test Method			
FCC 15.247:2015			ANSI C63.10:2013			
COMMENTS						
None						
	M TEST STANDARD					
None						
Configuration #	4	Signature	wife			
		-		Value	Limit	
				(dBc)	≤ (dBc)	Result
BLE - Advertising						
	Low Channel, 2402 MHz			-40.76	-20	Pass
	High Channel 2480 MHz			-46 68	-20	Pass

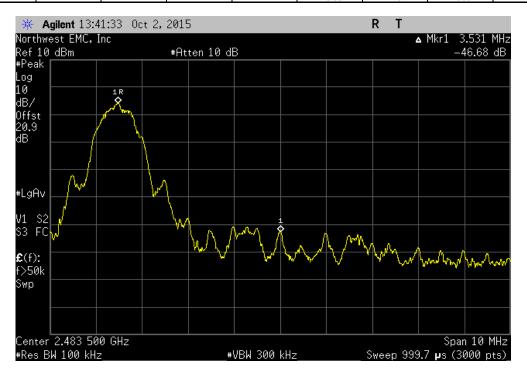
BAND EDGE COMPLIANCE







	BLE - Adverti	ising, High Chanr	el, 2480 MHz			
			Value	Limit		
			(dBc)	≤ (dBc)	Result	
			-46.68	-20	Pass	





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

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

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. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

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

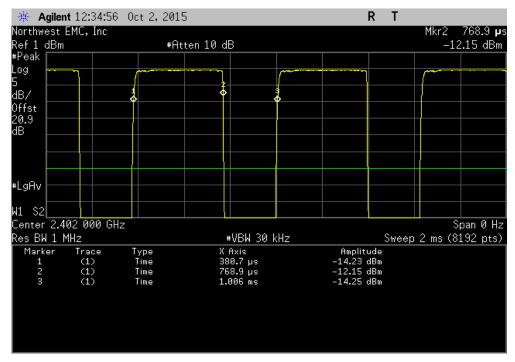
If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.



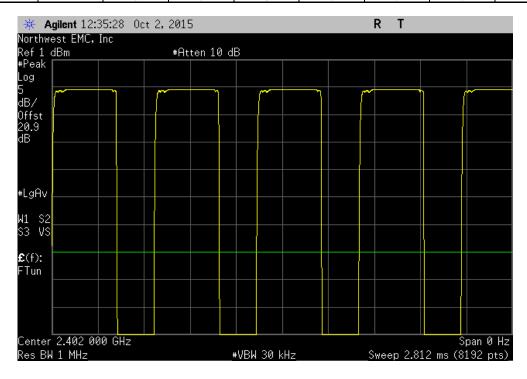
EUT:	SensoSCAN						Work Order:	SNSO0001	
Serial Number:	None						Date:	10/02/15	
Customer:	Sensogram Technologie	s, Inc.					Temperature:	24.3°C	
Attendees:	None						Humidity:	38%	
Project:	None						Barometric Pres.:	1020	
Tested by:	Frank Sun		Power:	USB via 110VAC/60)Hz		Job Site:	TX09	
TEST SPECIFICAT	IONS			Test Method					
FCC 15.247:2015				ANSI C63.10:2013					
COMMENTS									
None									
DEVIATIONS FROM	M TEST STANDARD								
None									
		- Total	1.11						
Configuration #	4	-	usk						
		Signature							
						Number of	Value	Limit	
				Pulse Width	Period	Pulses	(%)	(%)	Results
BLE - Advertising									
	Low Channel, 2402 MHz			388.172 us	625 us	1	62.1	N/A	N/A
	Low Channel, 2402 MHz			N/A	N/A	5	N/A	N/A	N/A
	Mid Channel, 2442 MHz			388.405 us	625 us	1	62.1	N/A	N/A
	Mid Channel, 2442 MHz			N/A	N/A	5	N/A	N/A	N/A
	High Channel, 2480 MHz			388.461 us	625.3 us	1	62.1	N/A	N/A
	High Channel, 2480 MHz			N/A	N/A	5	N/A	N/A	N/A



	BLE - Advert	ising, Low Chann	el, 2402 MHz		
		Number of	Value	Limit	
Pulse Width	Period	Pulses	(%)	(%)	Results
388.172 us	625 us	1	62.1	N/A	N/A

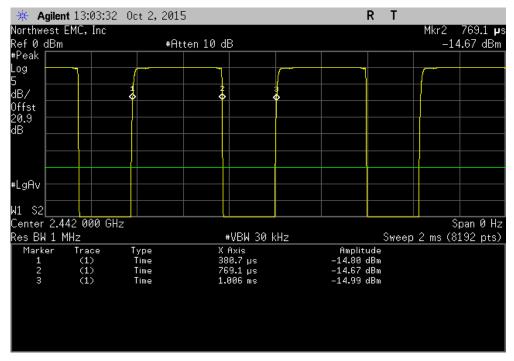


BLE - Advertising, Low Channel, 2402 MHz								
	Number of Value Limit							
	Pulse Width	Period	Pulses	(%)	(%)	Results		
	N/A	N/A	5	N/A	N/A	N/A		

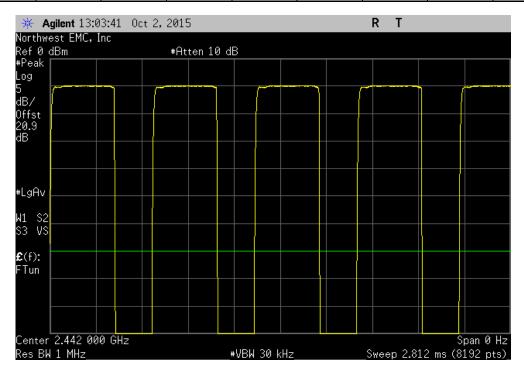




BLE - Advertising, Mid Channel, 2442 MHz								
Number of Value Limit								
Pulse Width	Period	Pulses	(%)	(%)	Results			
388.405 us	625 us	1	62.1	N/A	N/A			

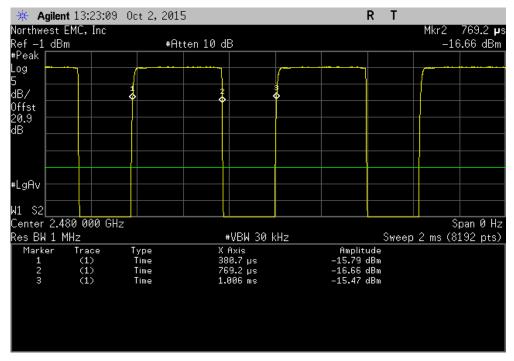


BLE - Advertising, Mid Channel, 2442 MHz								
	Number of Value Limit							
		Pulse Width	Period	Pulses	(%)	(%)	Results	
		N/A	N/A	5	N/A	N/A	N/A	

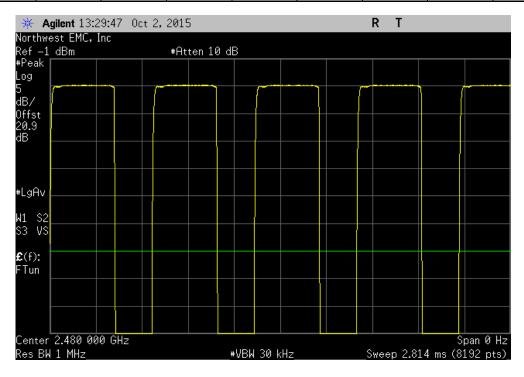




BLE - Advertising, High Channel, 2480 MHz								
	Number of Value Limit							
	Pulse Width	Period	Pulses	(%)	(%)	Results		
	388.461 us	625.3 us	1	62.1	N/A	N/A		



BLE - Advertising, High Channel, 2480 MHz								
	Number of Value Limit							
		Pulse Width	Period	Pulses	(%)	(%)	Results	
		N/A	N/A	5	N/A	N/A	N/A	



OCCUPIED BANDWIDTH



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

Ī						Interval
	Description	Manufacturer	Model	ID	Last Cal.	(mo)
	Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
	Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
	Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
	Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to the channels and modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer.

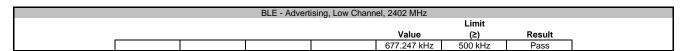
OCCUPIED BANDWIDTH



EUT:	SensoSCAN				Work Order:	SNSO0001	
Serial Number:	None		Date:	10/02/15	,		
Customer:	Sensogram Technologie	s, Inc.	Temperature:	24.2°C	,		
Attendees:	None				Humidity:	38%	
Project:	None				Barometric Pres.:	1020	
	Frank Sun		Power:	USB via 110VAC/60Hz	Job Site:	TX09	
TEST SPECIFICAT	IONS			Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
None							
DEVIATIONS FROM	M TEST STANDARD						
None							
Configuration #	4	Signature	MER				
						Limit	
					Value	(≥)	Result
BLE - Advertising							
	Low Channel, 2402 MHz				677.247 kHz	500 kHz	Pass
	Mid Channel, 2442 MHz				661.404 kHz	500 kHz	Pass
	High Channel, 2480 MHz				674.803 kHz	500 kHz	Pass

OCCUPIED BANDWIDTH





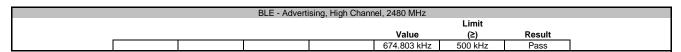


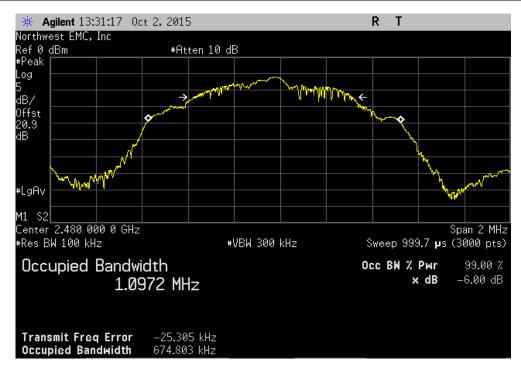
	BLE - Advert	ising, Mid Chann	el, 2442 MHz		
				Limit	
			Value	(≥)	Result
			661.404 kHz	500 kHz	Pass



OCCUPIED BANDWIDTH









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

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

TEST DESCRIPTION

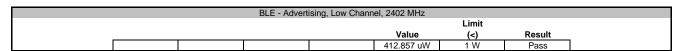
The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

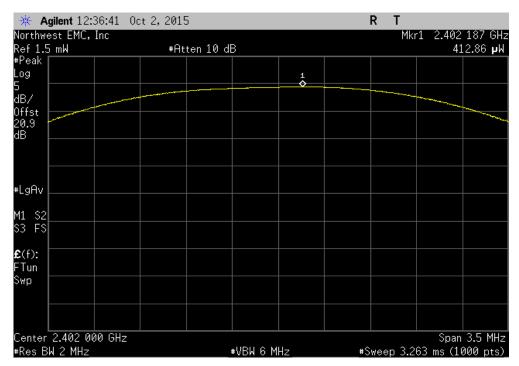
De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.



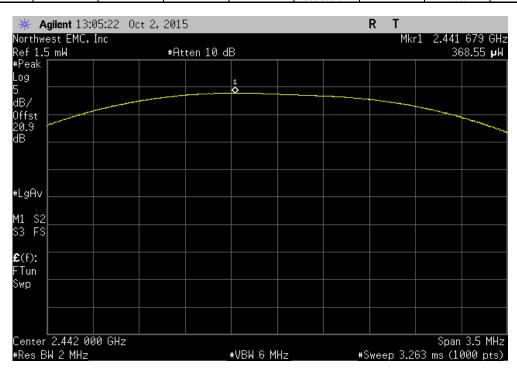
EUT: SensoSC	CAN				Work Order:	SNSO0001	
Serial Number: None					Date:	10/02/15	
Customer: Sensogra	am Technologies,	Inc.			Temperature:	24.4°C	
Attendees: None					Humidity:		
Project: None					Barometric Pres.:	1020	
Tested by: Frank Su	ın		Power:	USB via 110VAC/60Hz	Job Site:	TX09	
TEST SPECIFICATIONS				Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
None							
DEVIATIONS FROM TEST ST	TANDARD						
None							
Configuration #	4	Signature	WIF				
						Limit	
					Value	(<)	Result
BLE - Advertising							
Low Char	nnel, 2402 MHz				412.857 uW	1 W	Pass
	nnel, 2442 MHz				368.553 uW	1 W	Pass
High Cha	annel, 2480 MHz				301.856 uW	1 W	Pass



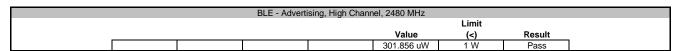


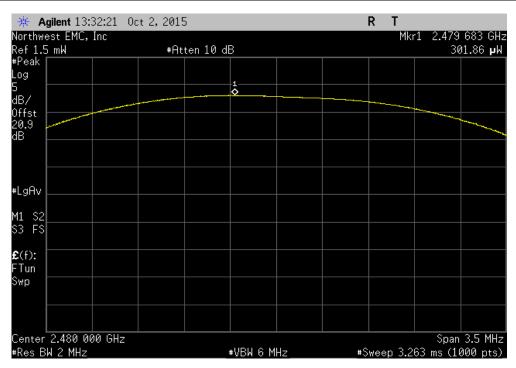


		BLE - Advert	ising, Mid Chann	el, 2442 MHz			
					Limit		
_				Value	(<)	Result	_
				368.553 uW	1 W	Pass	











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

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

TEST DESCRIPTION

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. External attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

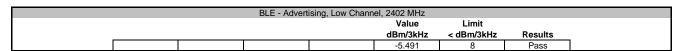
Per the procedure outlined in ANSI C63.10:2013 Section 11.10.2, the peak power spectral density was measured.

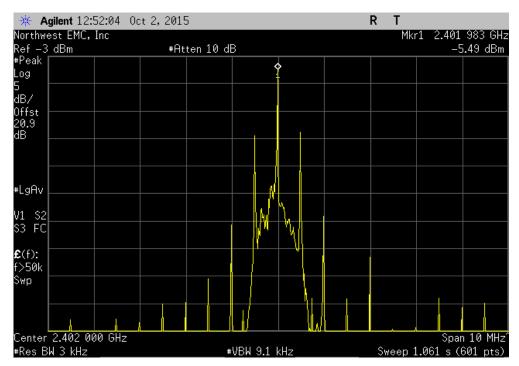


EUT	: SensoSCAN				Work Order:	SNSO0001	
Serial Number	: None				Date:	10/02/15	
Customer	: Sensogram Technologies	, Inc.			Temperature:	24.3°C	
Attendees	: None				Humidity:	38%	
Project	:: None				Barometric Pres.:	1020	•
	: Frank Sun		Power:	USB via 110VAC/60Hz	Job Site:	TX09	
TEST SPECIFICAT	TIONS			Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
None							
DEVIATIONS FRO	M TEST STANDARD						
None							
			/	•			
Configuration #	4	7	uch				
, and the second		Signature					
		· ·			Value	Limit	
					dBm/3kHz	< dBm/3kHz	Results
BLE - Advertising							
	Low Channel, 2402 MHz				-5.491	8	Pass
	Mid Channel, 2442 MHz				-6.118	8	Pass
	High Channel, 2480 MHz				-6.922	8	Pass

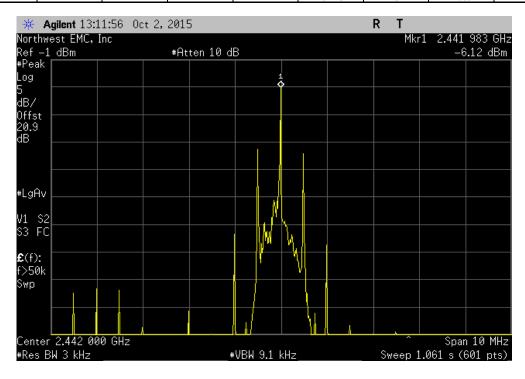
Report No. SNSO0001.2





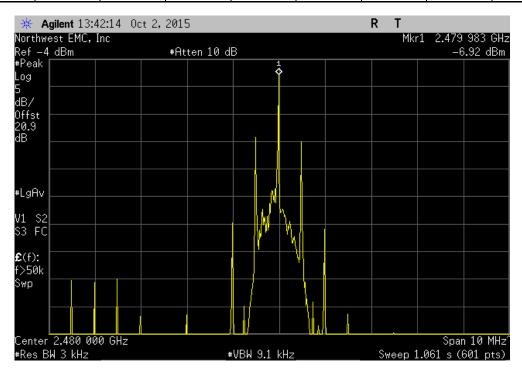


	BLE - Advert	ising, Mid Chann	el, 2442 MHz		
			Value	Limit	
			dBm/3kHz	< dBm/3kHz	Results
			-6.118	8	Pass





	BLE - Adverti	ising, High Chann	el, 2480 MHz		
			Value dBm/3kHz	Limit < dBm/3kHz	Results
			UBIII/3KHZ	< ubili/3kHz	Results
			-6.922	Ω	Pass





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.	Interval (mo)
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	7/23/2015	12
Attenuator	Fairview Microwave	SA4018-20	TQY	2/27/2015	12
Block - DC	Fairview Microwave	SD3379	AMM	2/27/2015	12
Signal Generator, 40 GHz	Agilent	N5173B	TIW	7/15/2014	36

TEST DESCRIPTION

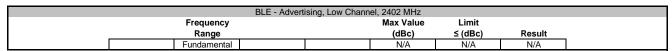
The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

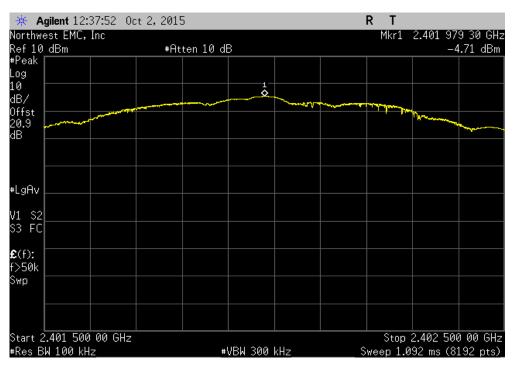


EUT: SensoSCAN			Work Order:	SNSO0001	
Serial Number: None			Date:	10/02/15	
Customer: Sensogram Tech	nologies, Inc.		Temperature:	24.3°C	
Attendees: None			Humidity:	38%	
Project: None			Barometric Pres.:	1020	
Tested by: Frank Sun		Power: USB via 110VAC/60Hz	Job Site:	TX09	
TEST SPECIFICATIONS		Test Method			
FCC 15.247:2015		ANSI C63.10:2013			
COMMENTS					
None					
DEVIATIONS FROM TEST STANDAR	D				
None					
		Wife			
Configuration # 4		Wiff			
	Signature	C. 198.85			
		Frequency	Max Value	Limit	
		Range	(dBc)	≤ (dBc)	Result
BLE - Advertising					
Low Channel, 240	2 MHz	Fundamental	N/A	N/A	N/A
Low Channel, 240	2 MHz	30 MHz - 12.5 GHz	-45.89	-20	Pass
Low Channel, 240	2 MHz	12.5 GHz - 25 GHz	-49.43	-20	Pass
Mid Channel, 2442	2 MHz	Fundamental	N/A	N/A	N/A
Mid Channel, 2442	2 MHz	30 MHz - 12.5 GHz	-51.45	-20	Pass
Mid Channel, 2442	2 MHz	12.5 GHz - 25 GHz	-48.48	-20	Pass
High Channel, 248	30 MHz	Fundamental	N/A	N/A	N/A
High Channel, 248	30 MHz	30 MHz - 12.5 GHz	-49.81	-20	Pass
High Channel, 248	30 MHz	12.5 GHz - 25 GHz	-47.66	-20	Pass

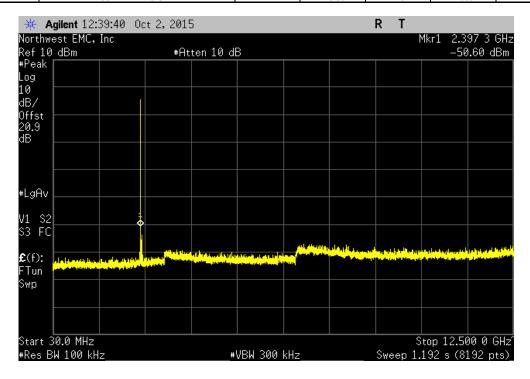
Report No. SNSO0001.2





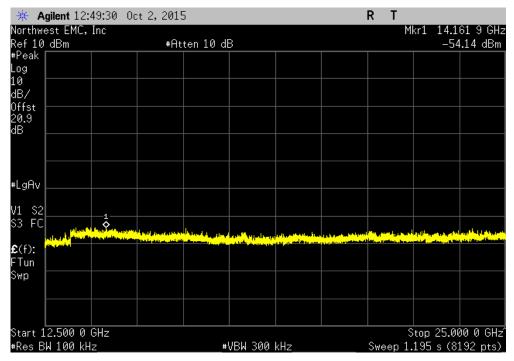


BLE - Advertis	sing, Low Channel, 2402 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-45.89	-20	Pass

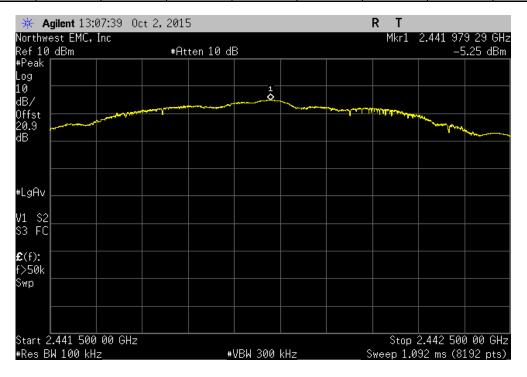




BLE - Advertising	g, Low Channel, 2402 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-49.43	-20	Pass

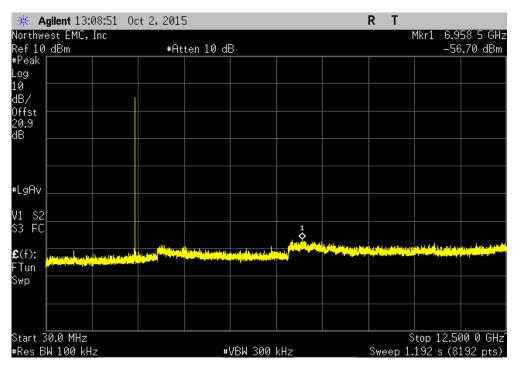


BLE - A	dvertising, Mid Chann	el, 2442 MHz		
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A

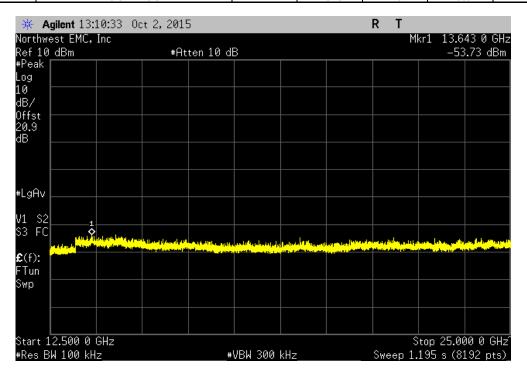




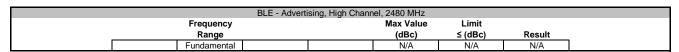
BLE - Adve	rtising, Mid Chann	el, 2442 MHz		
Frequency	.	Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz		-51.45	-20	Pass

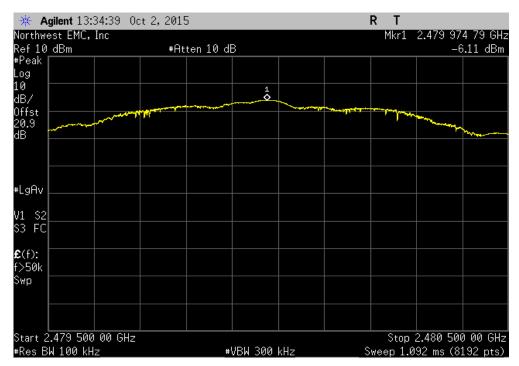


BLE - Advertis	sing, Mid Channel, 2442 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-48.48	-20	Pass

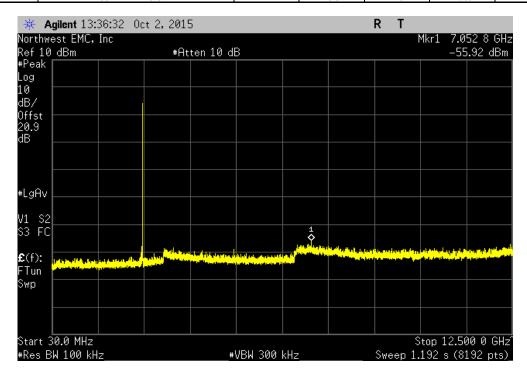








BLE - Adverti	sing, High Channel, 2480 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-49.81	-20	Pass





BLE - Adver	tising, High Chann	el, 2480 MHz		
Frequency	<u> </u>	Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-47.66	-20	Pass

