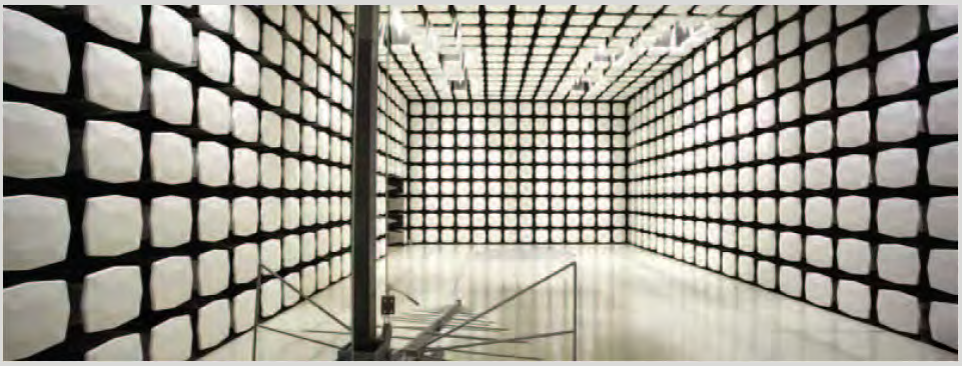
Boston Scientific Corporation

Emblem S-ICD

FCC 95I:2014

Report # BSTN0488 Rev 01



NVLAP Lab Code: 200881-0

NORTHWEST EMC

WTD 13.9.30

CERTIFICATE OF TEST

Last Date of Test: August 01, 2014
Boston Scientific Corporation
Model: Emblem S-ICD

Radio Equipment Testing

Standards

Test Description	Specification	Method
Emission Bandwidth	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Output Power	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Emission Mask	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Spurious Conducted Emissions	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Frequency Stability	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Frequency Monitoring	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Radiated Power (EIRP)	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Transmitter Spurious Emissions	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Receiver Spurious Emissions	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004, ANSI C63.4:2009
Powerline Conducted Emissions	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004
Radiated Emissions	FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

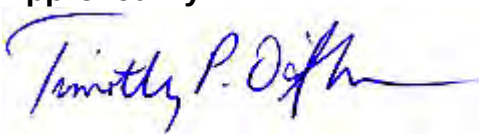
Results

Method Clause	Test Description	Applied	Results	Comments
FCC 95.633(e)(3)	Emission Bandwidth	Yes	Pass	
FCC 2.2.1	Output Power	Yes	Pass	
FCC 95.635(d)(4-5)	Emission Mask	Yes	Pass	
FCC 2.2.13	Spurious Conducted Emissions	Yes	Pass	
FCC 2.2.2	Frequency Stability	Yes	Pass	
FCC 95.627(a)	Frequency Monitoring/Spectrum Access	No	N/A	Manufacturer will handle this testing section.
FCC 2.2.17	Radiated Power (EIRP)	Yes	Pass	
FCC 2.2.12	Transmitter Spurious Emissions	Yes	Pass	
ANSI C63.4 - 12.2	Receiver Spurious Emissions	Yes	Pass	
ANSI C63.10 - 6.2	Powerline Conducted Emissions	No	N/A	Not required.

Deviations From Test Standards

None

Approved By:



Tim O'Shea, 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.

REVISION HISTORY

REV 2012.08.02

Revision Number	Description	Date	Page Number
01	The linear output power data was revised to display the actual value in scientific notation instead of rounding to the nearest mW	12/9/14	42-44

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

NORTHWEST EMC

REV 2014.08.11

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 Guide 65 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

OFTA – Recognized by OFTA 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/

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 listed below. 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 16-4-1 as applicable), and are available upon request.

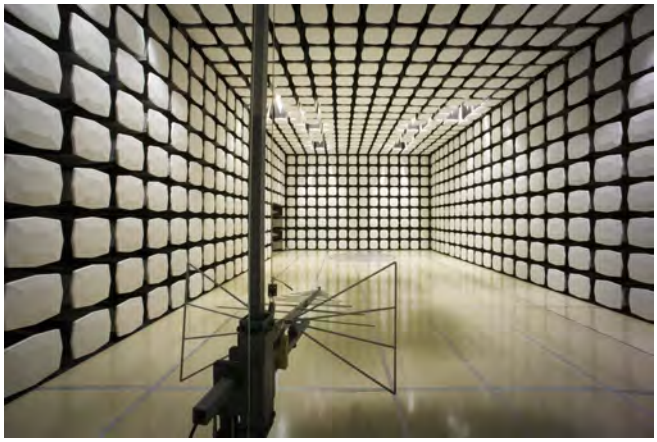
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

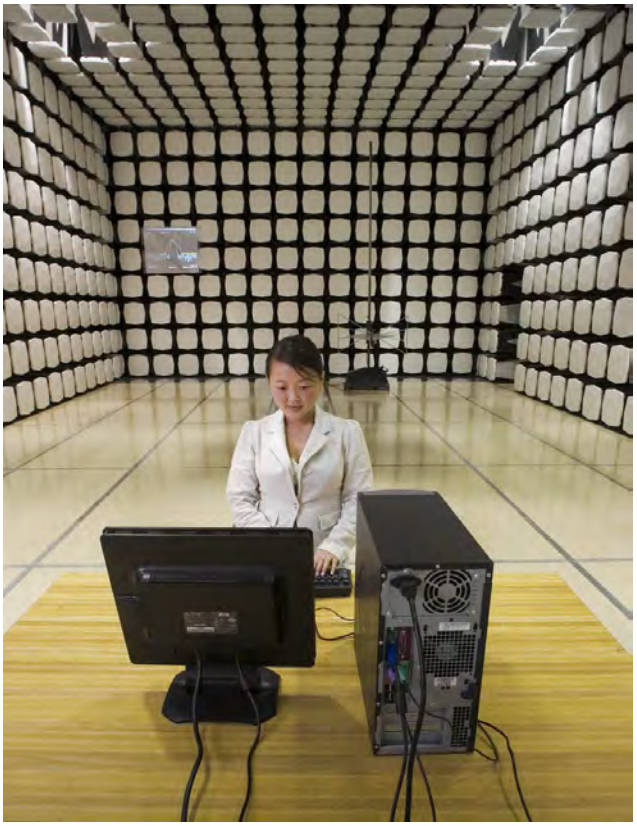
Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94

FACILITIES

REV 2013.06.28

Oregon	California	New York	Minnesota	Washington
Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Labs NC01-05,SU02,SU07 19201 120th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-*2*	2834B-1, 2834B-2, 2834B-3		2834E-1	2834F-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0





PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Avenue N.
City, State, Zip:	St. Paul, MN 55112
Test Requested By:	Daniel Landherr
Model:	Emblem S-ICD
First Date of Test:	July 28, 2014
Last Date of Test:	August 01, 2014
Receipt Date of Samples:	July 28, 2014
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Subcutaneous Implantable Defibrillator with a 2 channel Class 3 MICS radio module.

Testing Objective:
Seeking FCC authorization for the MICS transmitter, FCC Part 95.

CONFIGURATIONS

Configuration BSTN0488- 1

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Emblem S-ICD	Boston Scientific Corporation	A209	100140

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
Implant Lead	No	45cm	No	Emblem S-ICD	Tissue Simulant
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration BSTN0488- 2

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Emblem S-ICD	Boston Scientific Corporation	A209	100182

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
Implant Lead	No	45cm	No	Emblem S-ICD	Tissue Simulant
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration BSTN0488- 3

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Emblem S-ICD	Boston Scientific Corporation	A209	100192

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
Implant Lead	No	45cm	No	Emblem S-ICD	Tissue Simulant
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration BSTN0488- 4

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid	Boston Scientific Corporation	None	70100064

Configuration BSTN0488- 5

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid	Boston Scientific Corporation	None	70100059

CONFIGURATIONS

Configuration BSTN0488- 6

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid	Boston Scientific Corporation	None	70100066

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	7/28/2014	Receiver Spurious Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	7/28/2014	Radiated Power (EIRP)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	7/29/2014	Transmitter Spurious Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	8/1/2014	Emissions Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	8/1/2014	Emissions Mask	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	8/1/2014	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	8/1/2014	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
8	8/1/2014	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

EMISSIONS 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

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo.)
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

Per 47 CFR 95.633(e)(3), the emission bandwidth was determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT.

EMISSIONS BANDWIDTH

EUT:	Emblem S-ICD			**Work Order:**	BSTN0488
Serial Number:	See Below			**Date:**	08/01/14
Customer:	Boston Scientific Corporation			**Temperature:**	23.6°C
Attendees:	Daniel Landherr			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1020.6
Tested by:	Trevor Buls	**Power:**	Battery	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

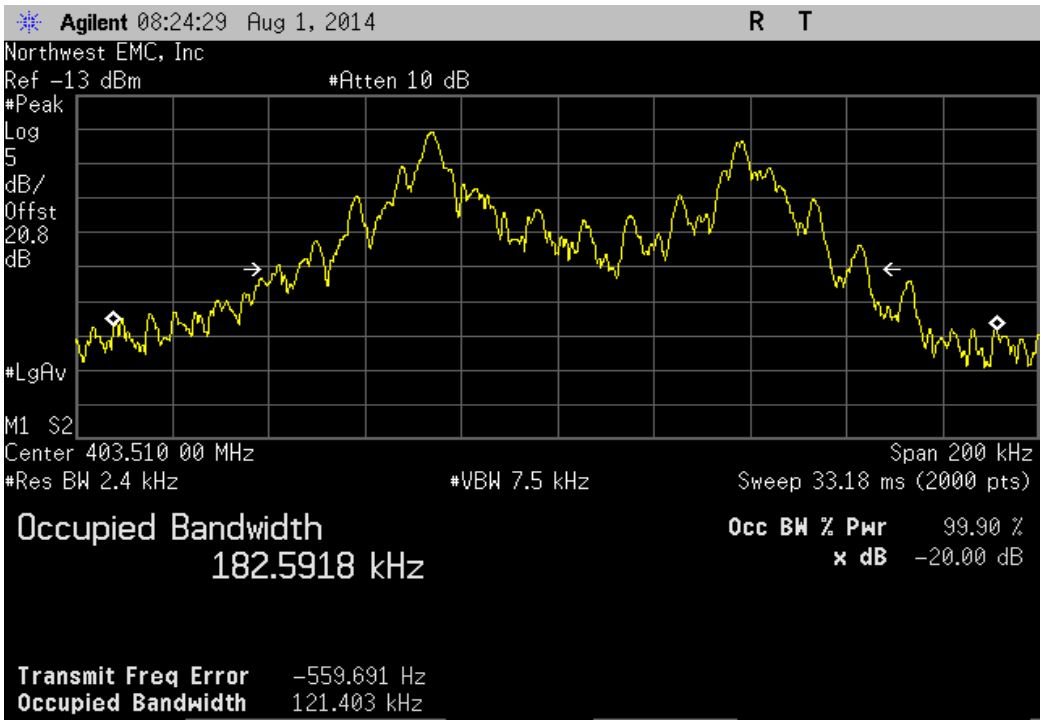
None

Configuration #	4,5,6	Signature	Trevor Buls

		Value	Limit (≤)	Result
SN: 70100064				
	Ch 1, 402.81 MHz	125.433 kHz	300 kHz	Pass
	Ch 0, 403.51 MHz	121.403 kHz	300 kHz	Pass
SN: 70100059				
	Ch 1, 402.81 MHz	116.626 kHz	300 kHz	Pass
	Ch 0, 403.51 MHz	121.2 kHz	300 kHz	Pass
SN: 70100066				
	Ch 1, 402.81 MHz	126.128 kHz	300 kHz	Pass
	Ch 0, 403.51 MHz	122.198 kHz	300 kHz	Pass

SN: 70100064, Ch 1, 402.81 MHz							
					Value	Limit (≤)	Result
					125.433 kHz	300 kHz	Pass

SN: 70100064, Ch 0, 403.51 MHz							
					Value	Limit (≤)	Result
					121.403 kHz	300 kHz	Pass

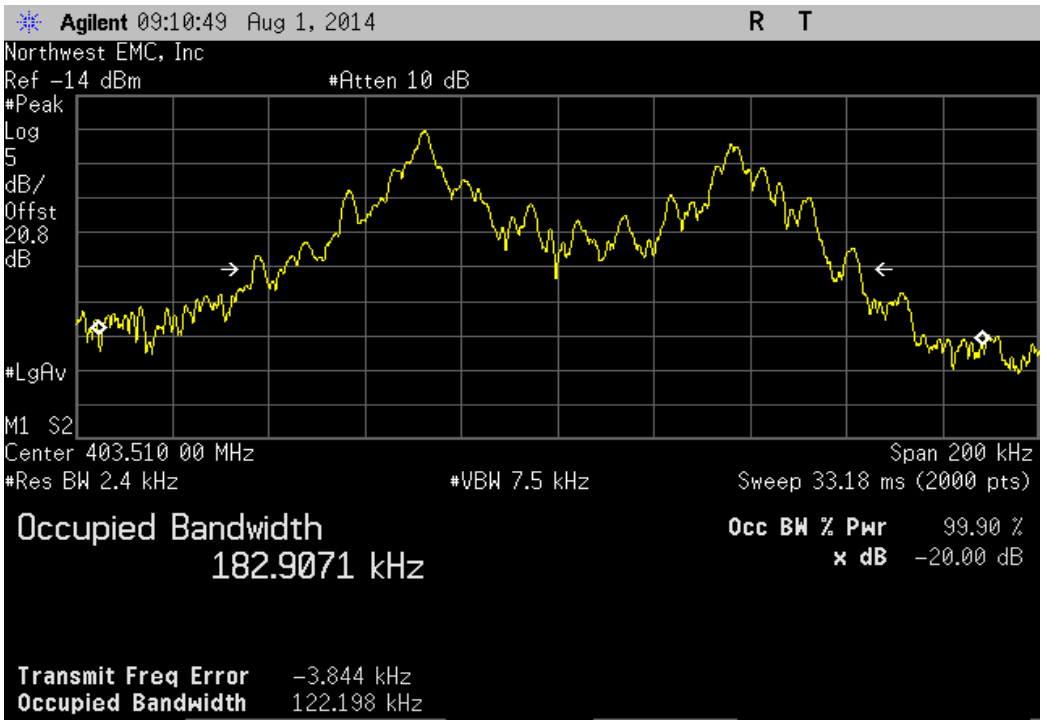


SN: 70100059, Ch 1, 402.81 MHz						
				Value	Limit (≤)	Result
				116.626 kHz	300 kHz	Pass

SN: 70100059, Ch 0, 403.51 MHz						
				Value	Limit (≤)	Result
				121.2 kHz	300 kHz	Pass

SN: 70100066, Ch 1, 402.81 MHz						
				Value	Limit (≤)	Result
				126.128 kHz	300 kHz	Pass

SN: 70100066, Ch 0, 403.51 MHz						
				Value	Limit (≤)	Result
				122.198 kHz	300 kHz	Pass



OUTPUT POWER

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.)
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

Per FCC Part 2.1046, RSS-GEN, the output power shall be measured at the RF terminal. The peak output power was measured with the EUT configured in the modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate. FCC Part 95 and RSS-243 have no conducted output power limit. It is a requirement to characterize this information and that data is contained within this datasheet.

OUTPUT POWER

EUT:	Emblem S-ICD			**Work Order:**	BSTN0488
Serial Number:	See Below			**Date:**	08/01/14
Customer:	Boston Scientific Corporation			**Temperature:**	23.6°C
Attendees:	Daniel Landherr			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1020.6
Tested by:	Trevor Buls	**Power:**	Battery	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

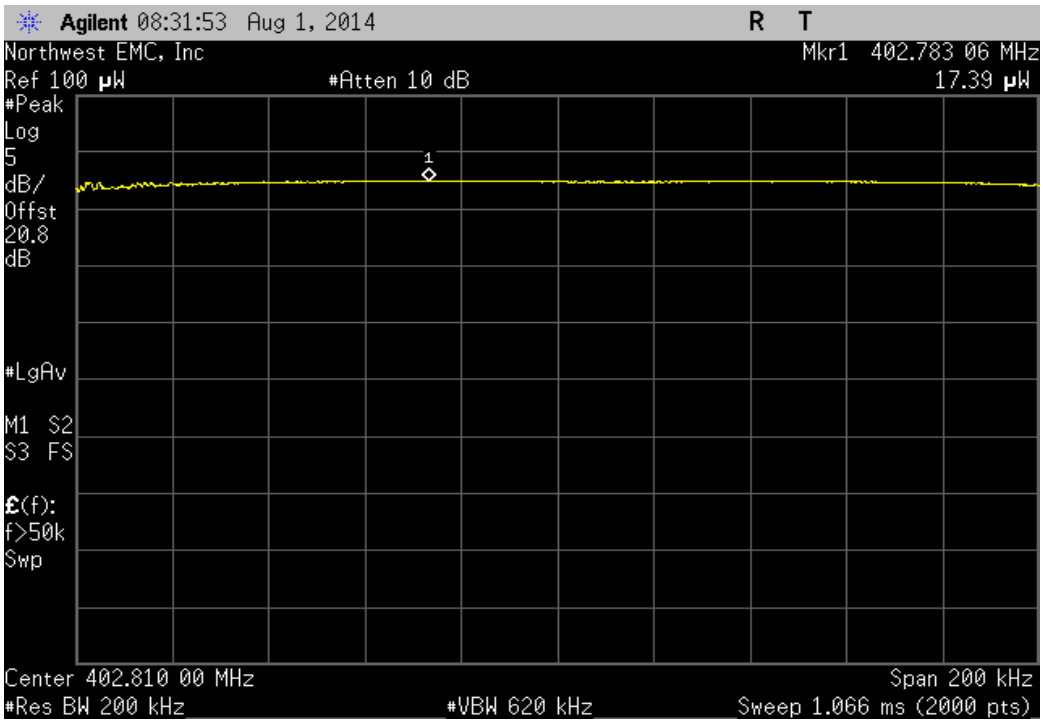
None

Configuration #	4,5,6	Signature	Trevor Buls

		Value	Limit	Result
SN: 70100064				
	Ch 1, 402.81 MHz	17.394 uW	N/A	N/A
	Ch 0, 403.51 MHz	17.985 uW	N/A	N/A
SN: 70100059				
	Ch 1, 402.81 MHz	17.783 uW	N/A	N/A
	Ch 0, 403.51 MHz	17.636 uW	N/A	N/A
SN: 70100066				
	Ch 1, 402.81 MHz	14.771 uW	N/A	N/A
	Ch 0, 403.51 MHz	14.88 uW	N/A	N/A

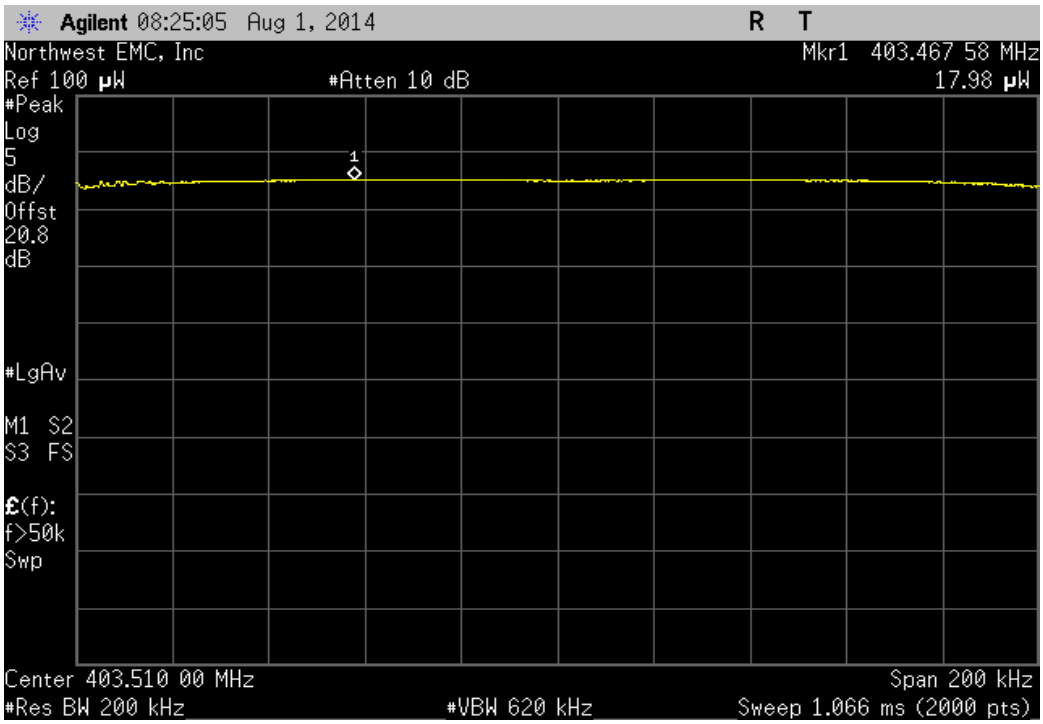
SN: 70100064, Ch 1, 402.81 MHz

				Value	Limit	Result
				17.394 uW	N/A	N/A



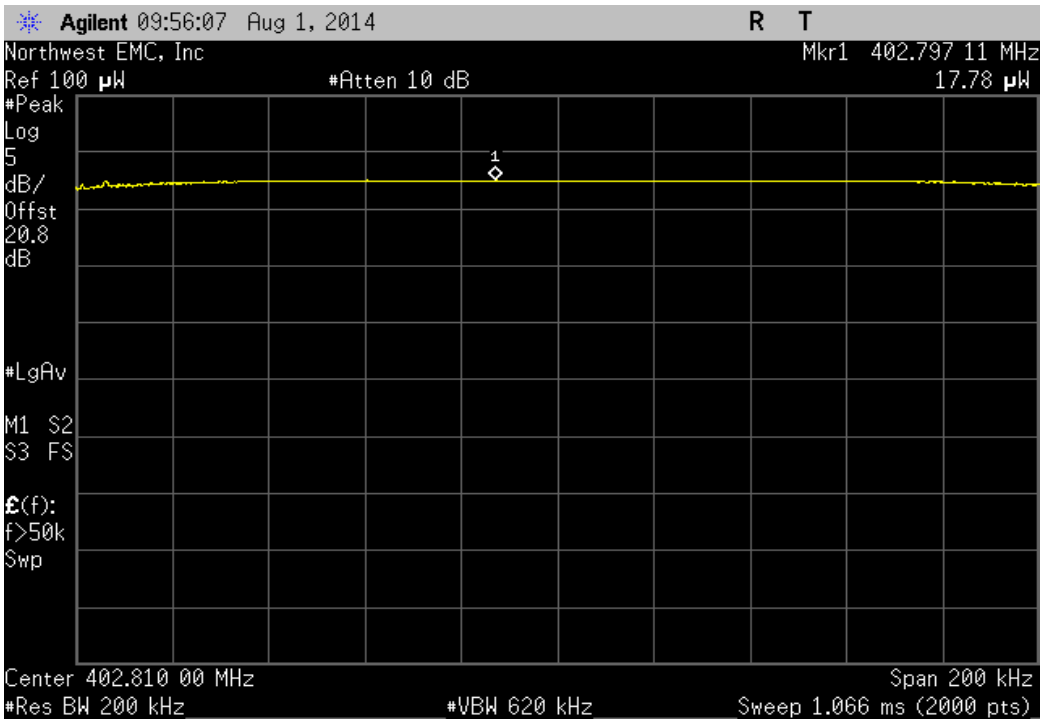
SN: 70100064, Ch 0, 403.51 MHz

				Value	Limit	Result
				17.985 uW	N/A	N/A



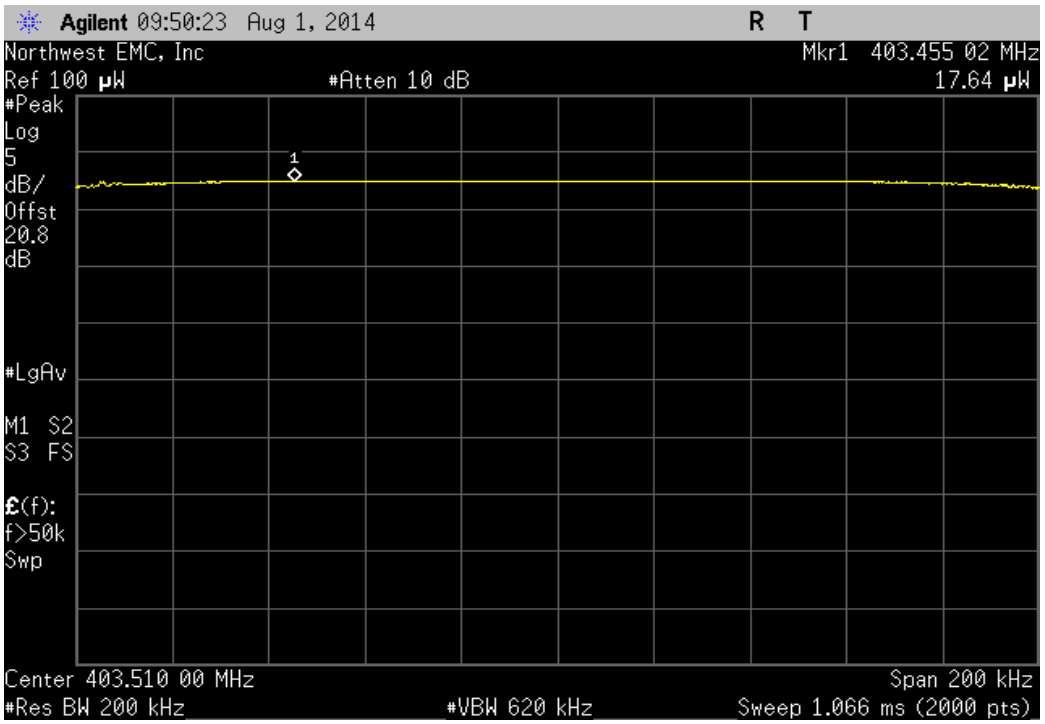
SN: 70100059, Ch 1, 402.81 MHz

				Value	Limit	Result
				17.783 uW	N/A	N/A



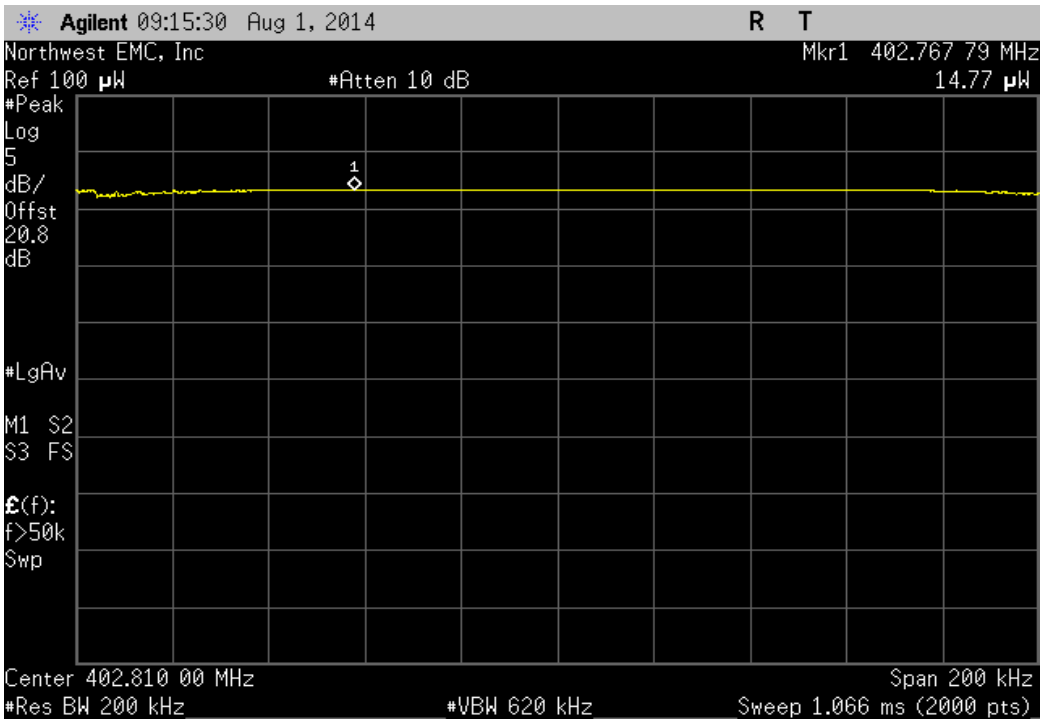
SN: 70100059, Ch 0, 403.51 MHz

				Value	Limit	Result
				17.636 uW	N/A	N/A



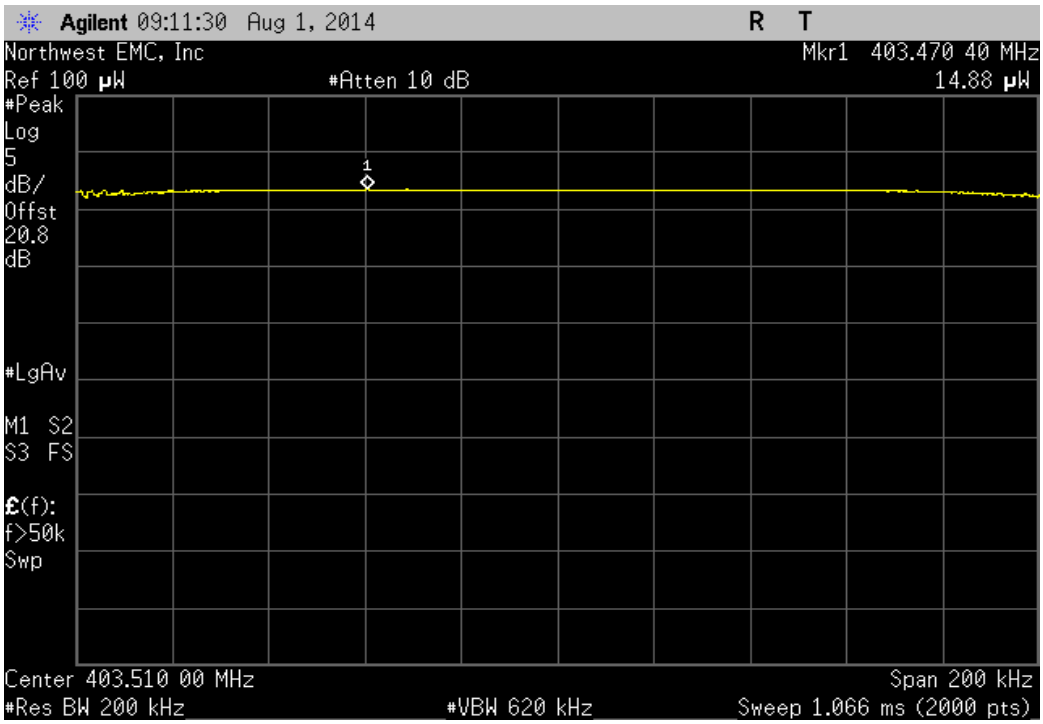
SN: 70100066, Ch 1, 402.81 MHz

				Value	Limit	Result
				14.771 uW	N/A	N/A



SN: 70100066, Ch 0, 403.51 MHz

				Value	Limit	Result
				14.88 uW	N/A	N/A



EMISSIONS MASK

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.)
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

Per 47 CFR 95.635(d)(4) the emission mask was measured. Emissions more than 150 kHz away from the center frequency must be attenuated below the transmitter output power by at least 20 dB. This was evaluated by the Occupied Bandwidth measurement according to 47 CFR 95.633(e)(1). In addition, emissions 250 kHz or less above and below the MICS band (402-405 MHz) must be attenuated below the maximum permitted output power by at least 20 dB.

A spectrum analyzer was used to measure the emission mask. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT. However, various plots were made using different frequency spans and resolution bandwidths in an attempt to not only satisfy the measurement criteria, but to also show that all emissions outside of the occupied band are greatly attenuated.

EMISSIONS MASK

EUT:	Emblem S-ICD			**Work Order:**	BSTN0488
Serial Number:	See Below			**Date:**	08/01/14
Customer:	Boston Scientific Corporation			**Temperature:**	23.6°C
Attendees:	Daniel Landherr			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1020.6
Tested by:	Trevor Buls	**Power:**	Battery	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

COMMENTS

None

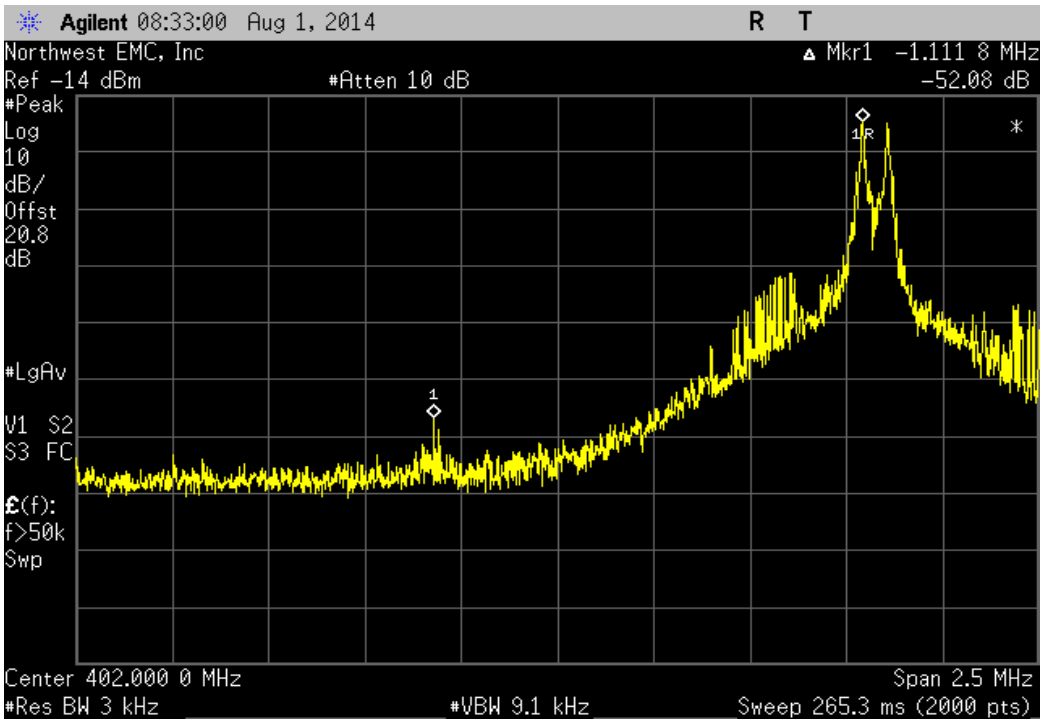
DEVIATIONS FROM TEST STANDARD

None

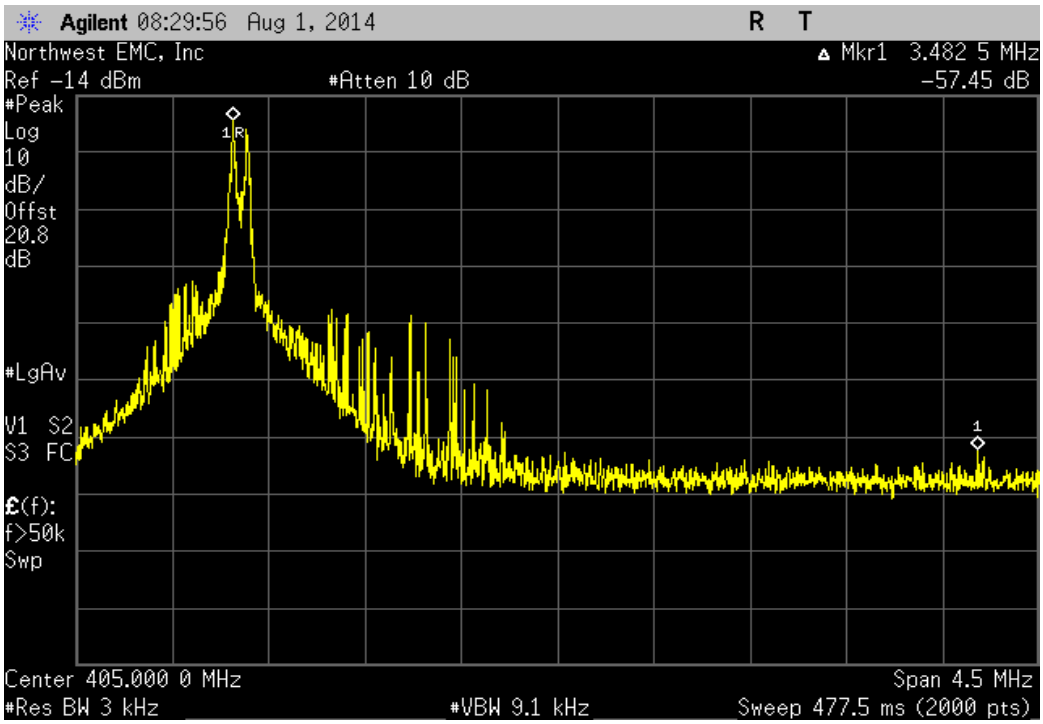
Configuration #	4,5,6	Signature	Trevor Buls

		Value (dBc)	Limit ≤ (dBc)	Result
SN: 70100064				
	Ch 1, 402.81 MHz	-52.08	-20	Pass
	Ch 0, 403.51 MHz	-57.45	-20	Pass
SN: 70100059				
	Ch 1, 402.81 MHz	-52.39	-20	Pass
	Ch 0, 403.51 MHz	-55.56	-20	Pass
SN: 70100066				
	Ch 1, 402.81 MHz	-53.22	-20	Pass
	Ch 0, 403.51 MHz	-52.07	-20	Pass

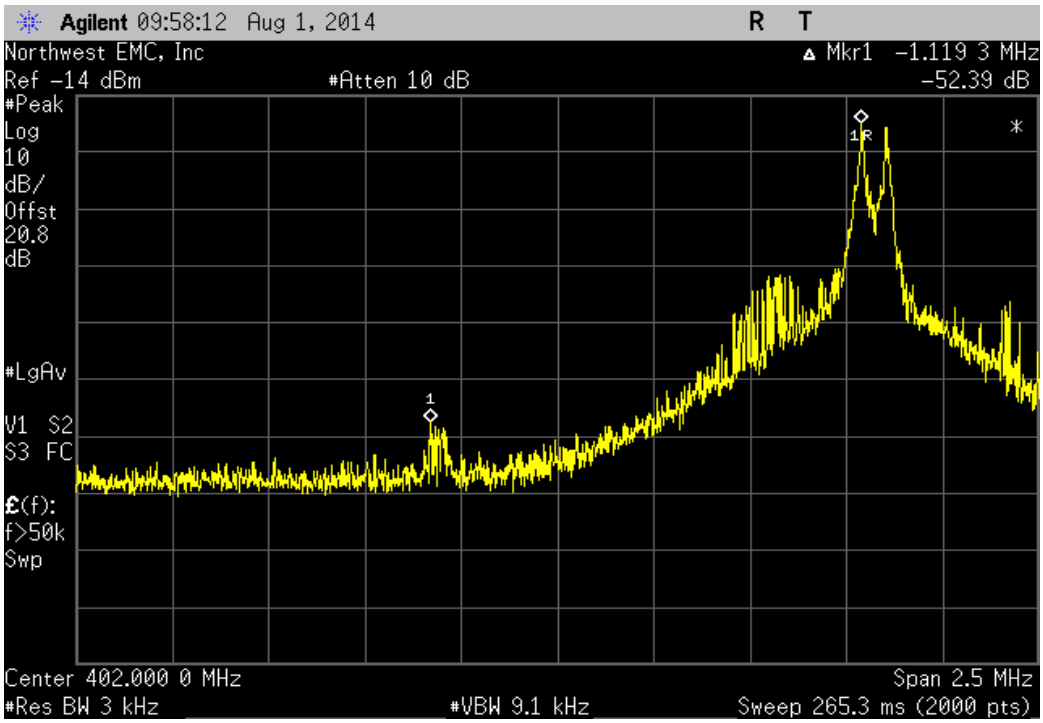
SN: 70100064, Ch 1, 402.81 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-52.08	-20	Pass



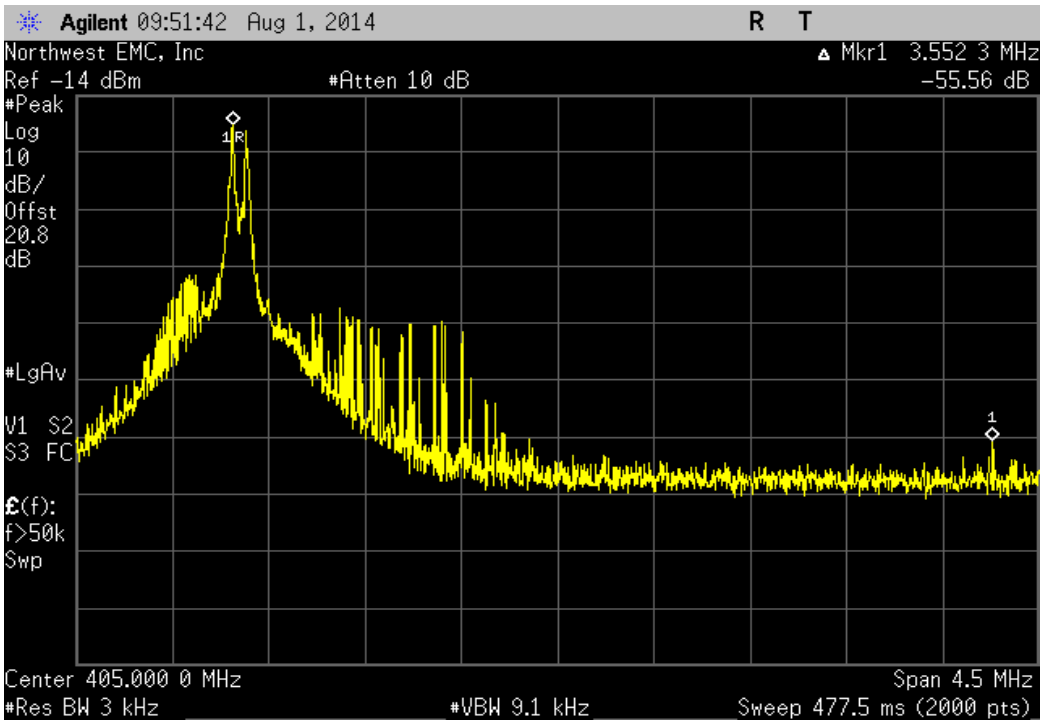
SN: 70100064, Ch 0, 403.51 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-57.45	-20	Pass



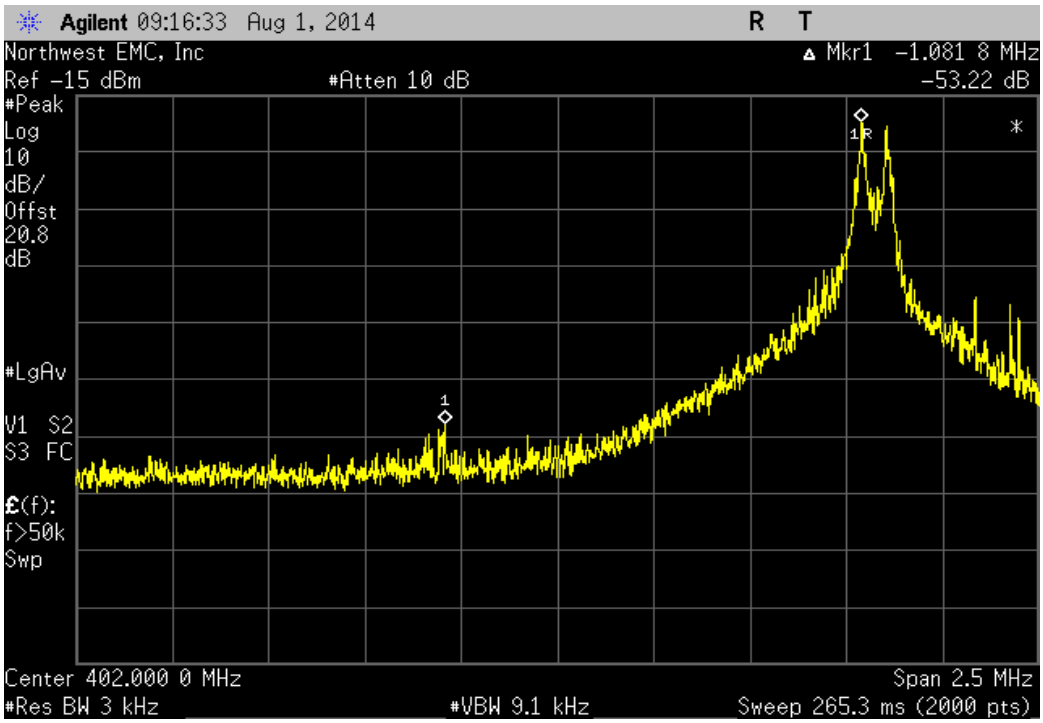
SN: 70100059, Ch 1, 402.81 MHz							
					Value (dBc)	Limit ≤ (dBc)	Result
					-52.39	-20	Pass



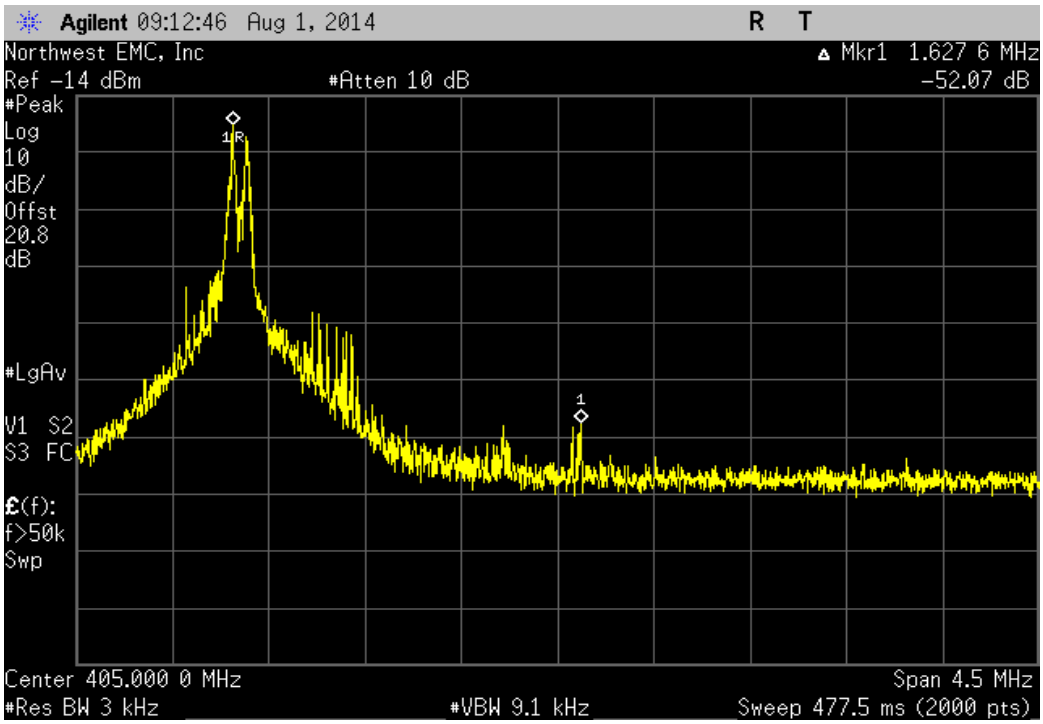
SN: 70100059, Ch 0, 403.51 MHz							
					Value (dBc)	Limit ≤ (dBc)	Result
					-55.56	-20	Pass



SN: 70100066, Ch 1, 402.81 MHz							
					Value (dBc)	Limit ≤ (dBc)	Result
					-53.22	-20	Pass



SN: 70100066, Ch 0, 403.51 MHz							
					Value (dBc)	Limit ≤ (dBc)	Result
					-52.07	-20	Pass



SPURIOUS CONDUCTED 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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo.)
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The Spurious Conducted Emissions shall be measured at the RF terminal. The peak emissions were measured with the EUT configured in the modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate. FCC Part 95 and RSS-243 have no spurious conducted limit. It is a requirement to characterize this information and that data is contained within this datasheet.

SPURIOUS CONDUCTED EMISSIONS

EUT:	Emblem S-ICD			**Work Order:**	BSTN0488
Serial Number:	See Below			**Date:**	08/01/14
Customer:	Boston Scientific Corporation			**Temperature:**	23.6°C
Attendees:	Daniel Landherr			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1020.6
Tested by:	Trevor Buls	**Power:**	Battery	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

COMMENTS

None

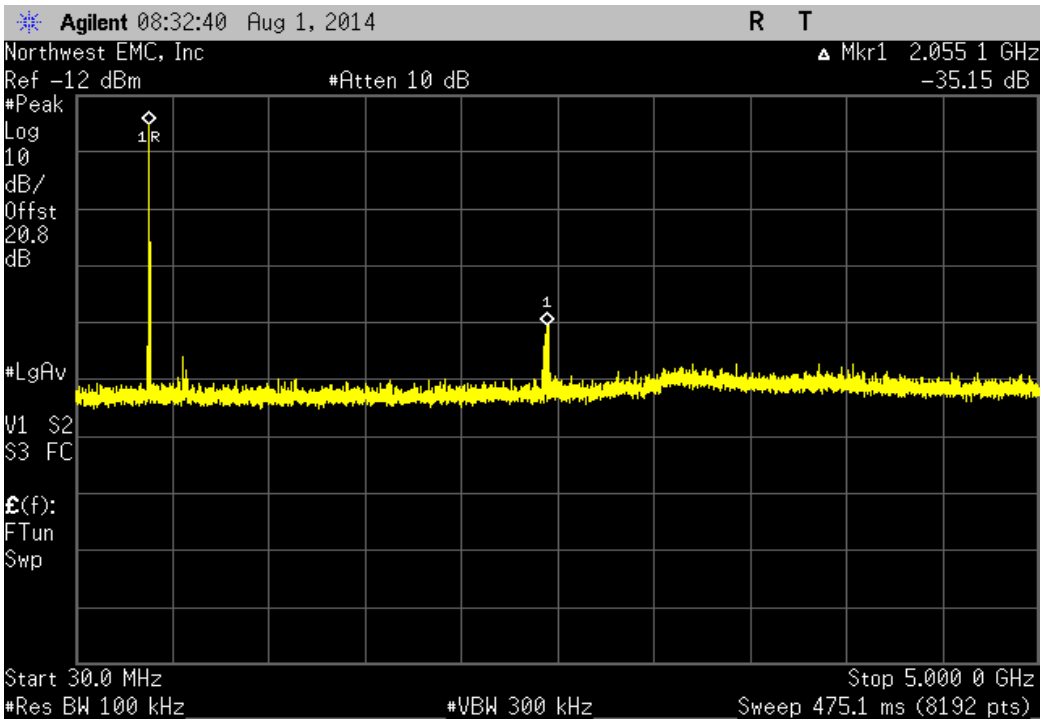
DEVIATIONS FROM TEST STANDARD

None

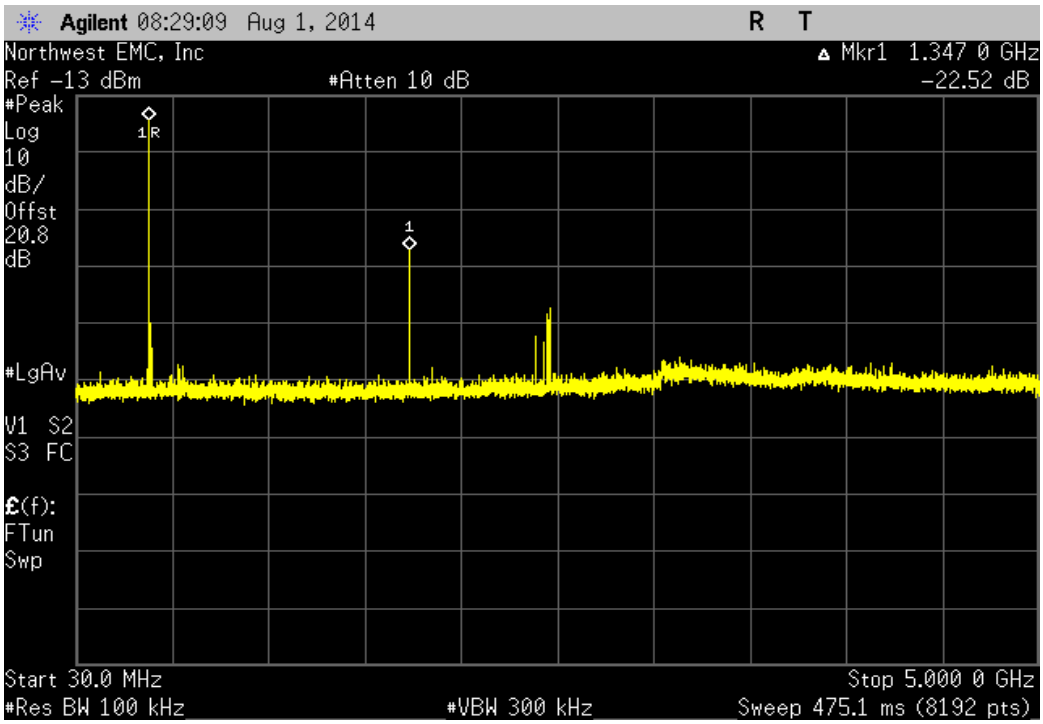
Configuration #	4,5,6	Signature	Trevor Buls

		Frequency Range	Value (dBc)	Limit (dBc)	Result
SN: 70100064					
	Ch 1, 402.81 MHz	30 MHz - 5 GHz	-35.15	N/A	N/A
	Ch 0, 403.51 MHz	30 MHz - 5 GHz	-22.52	N/A	N/A
SN: 70100059					
	Ch 1, 402.81 MHz	30 MHz - 5 GHz	-26.62	N/A	N/A
	Ch 0, 403.51 MHz	30 MHz - 5 GHz	-32.95	N/A	N/A
SN: 70100066					
	Ch 1, 402.81 MHz	30 MHz - 5 GHz	-33.65	N/A	N/A
	Ch 0, 403.51 MHz	30 MHz - 5 GHz	-30.64	N/A	N/A

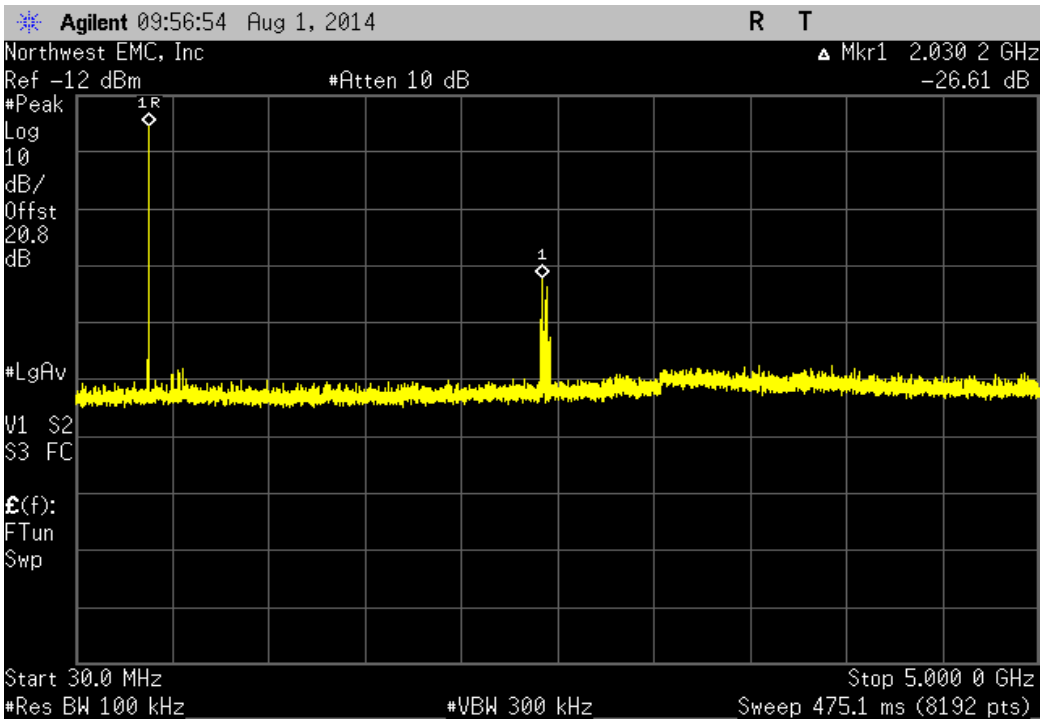
SN: 70100064, Ch 1, 402.81 MHz					
Frequency Range			Value (dBc)	Limit (dBc)	Result
30 MHz - 5 GHz			-35.15	N/A	N/A



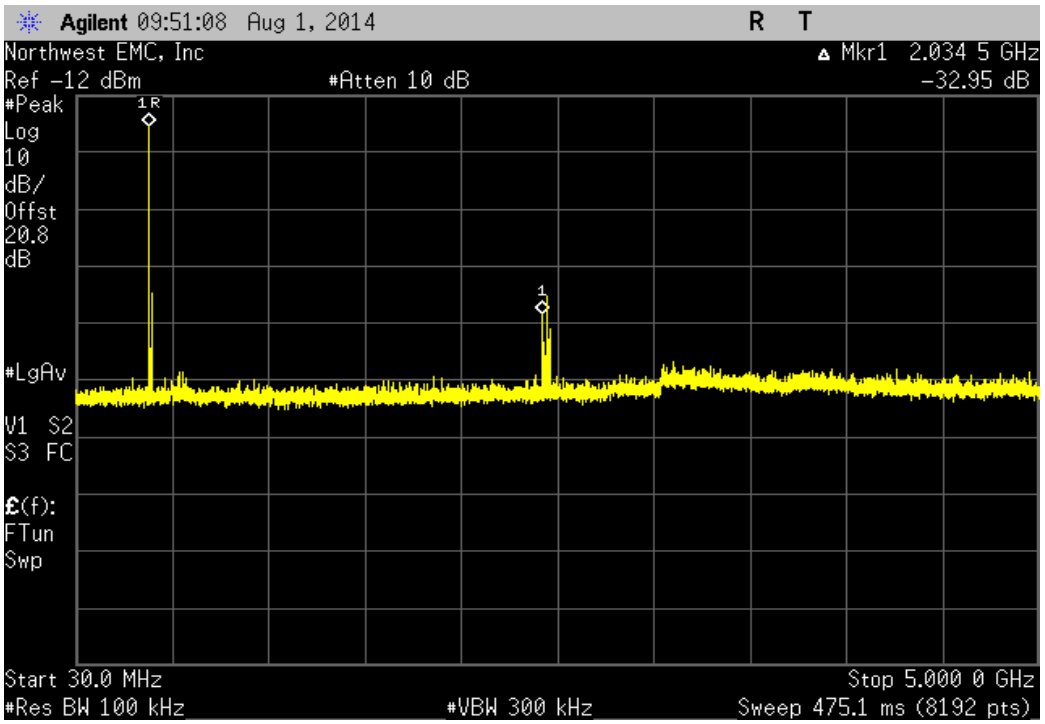
SN: 70100064, Ch 0, 403.51 MHz					
Frequency Range			Value (dBc)	Limit (dBc)	Result
30 MHz - 5 GHz			-22.52	N/A	N/A



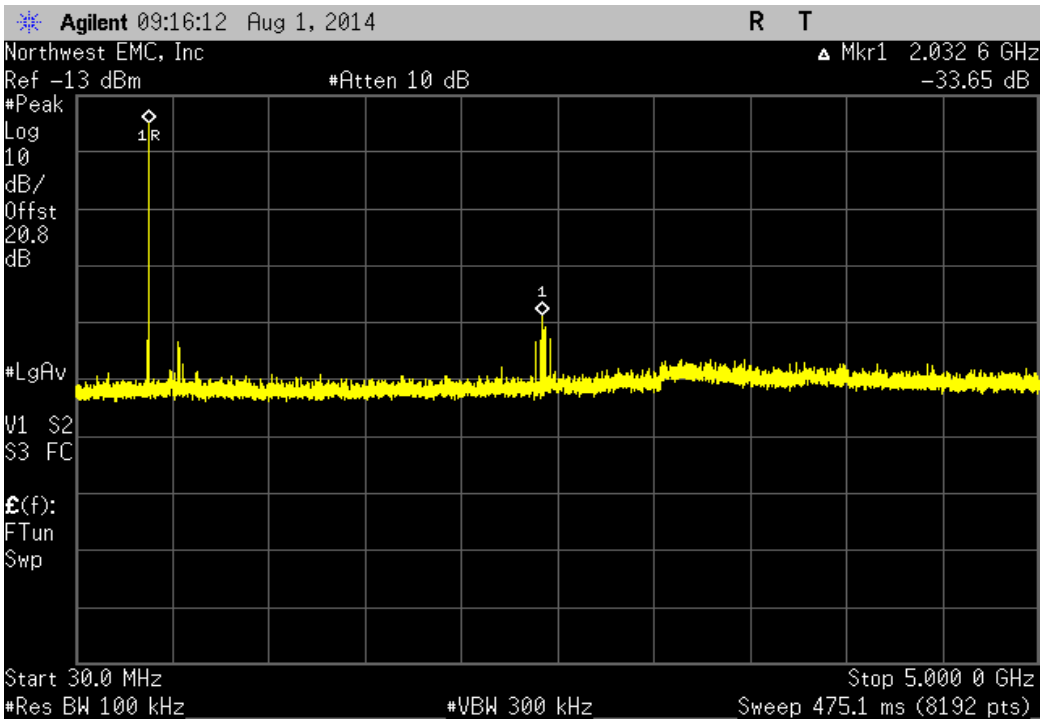
SN: 70100059, Ch 1, 402.81 MHz						
	Frequency Range			Value (dBc)	Limit (dBc)	Result
	30 MHz - 5 GHz			-26.62	N/A	N/A



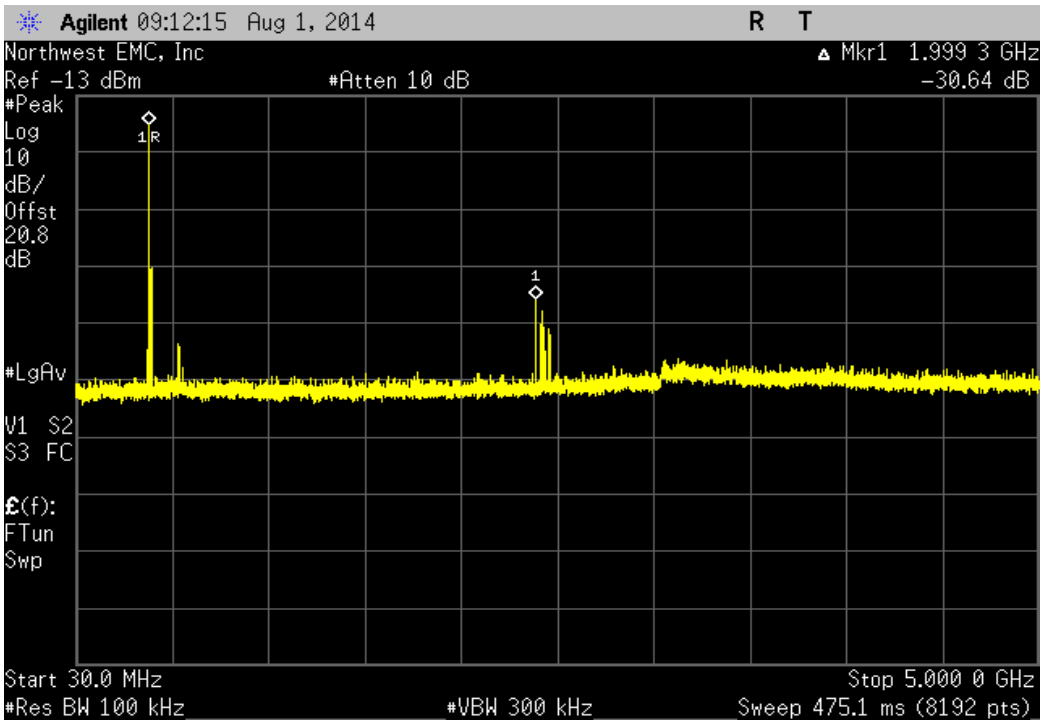
SN: 70100059, Ch 0, 403.51 MHz						
	Frequency Range			Value (dBc)	Limit (dBc)	Result
	30 MHz - 5 GHz			-32.95	N/A	N/A



SN: 70100066, Ch 1, 402.81 MHz						
	Frequency Range			Value (dBc)	Limit (dBc)	Result
	30 MHz - 5 GHz			-33.65	N/A	N/A



SN: 70100066, Ch 0, 403.51 MHz						
	Frequency Range			Value (dBc)	Limit (dBc)	Result
	30 MHz - 5 GHz			-30.64	N/A	N/A



FREQUENCY STABILITY

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.)
Humidity Temperature Chamber	Cincinnati Sub Zero (CSZ)	ZPH-32-3.5-SCT/AC	TBF	NCR	0
Humidity Temperature Meter	Omega Engineering, Inc.	HH31	DUB	10/25/2011	36
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Multimeter	Fluke	117	MNN	1/20/2014	36
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied over the range specified by the client as the maximum full charge voltage, and the battery endpoint voltage.

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the temperature range of: +25°, 35°C and +45°C.

The spectrum analyzer is configured with a precision frequency reference that exceeds the stability requirement of the transmitter. The EUT was placed inside a temperature / humidity chamber. A low-loss coaxial was connected from the EUT to the spectrum analyzer outside of the chamber.

ppm = (Measured Frequency / Measured Nominal Frequency - 1) * 1,000,000

FREQUENCY STABILITY

EUT:	Emblem S-ICD			**Work Order:**	BSTN0488
Serial Number:	See Below			**Date:**	08/01/14
Customer:	Boston Scientific Corporation			**Temperature:**	23.6°C
Attendees:	Daniel Landherr			**Humidity:**	52%
Project:	None			**Barometric Pres.:**	1020.6
Tested by:	Trevor Buls	**Power:**	Battery	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

COMMENTS

Testing performed on one channel per the standard.

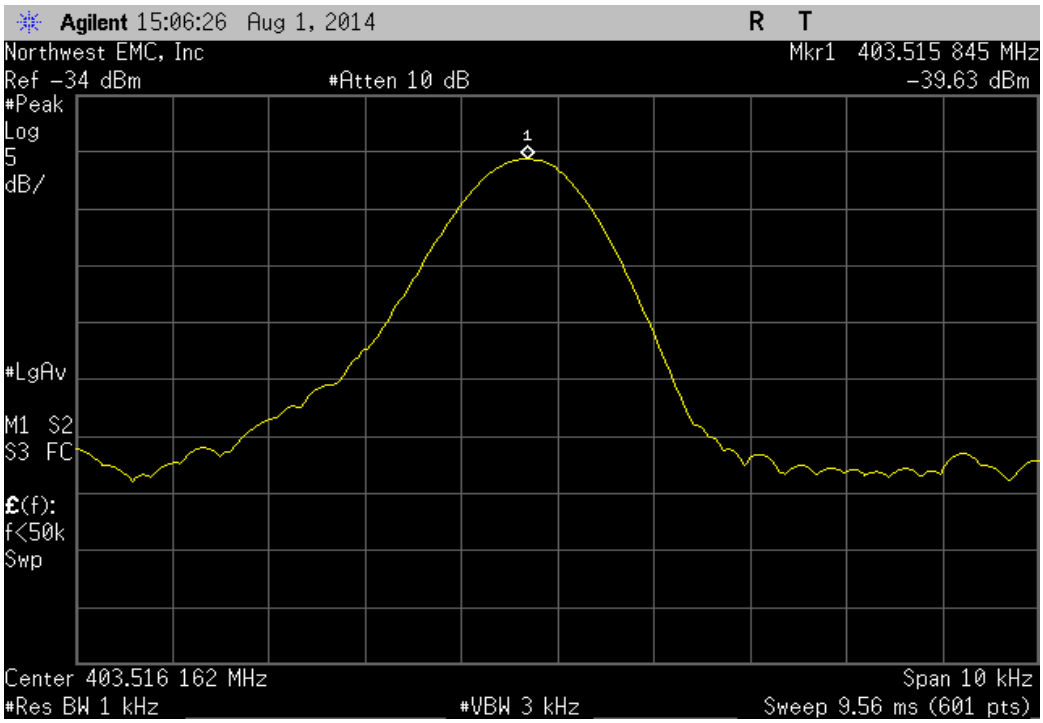
DEVIATIONS FROM TEST STANDARD

None

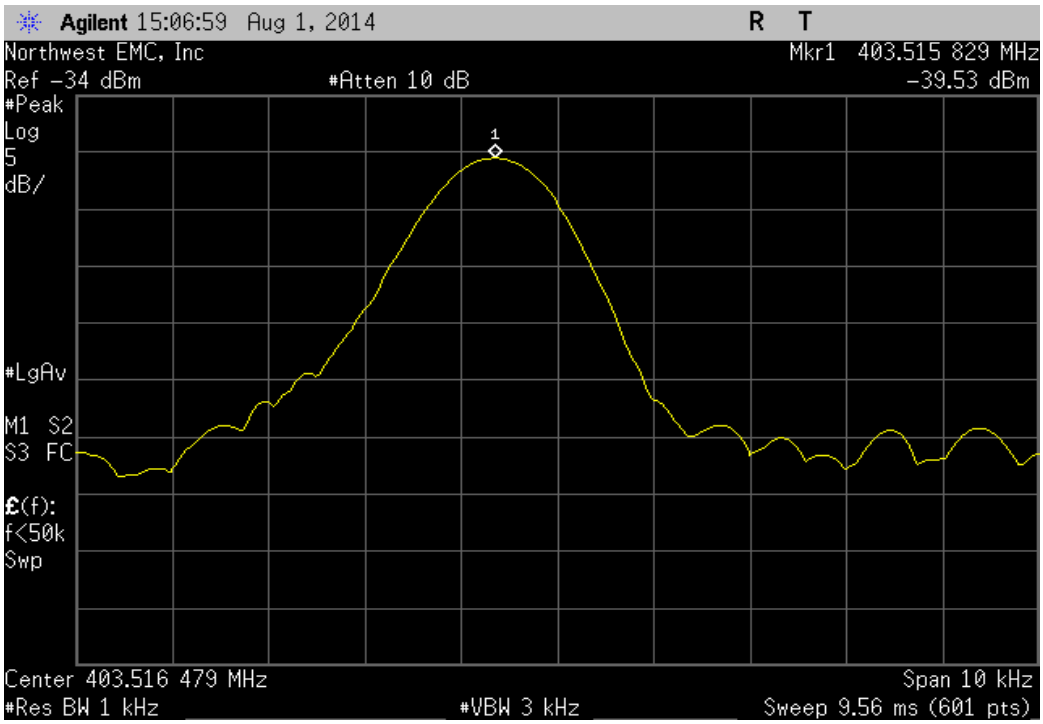
Configuration #	4,5,6	Signature	Trevor Buls

		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
SN: 70100064						
	Extreme Voltage +9.3VDC	403.515845	403.51	14.5	100	Pass
	Extreme Voltage +8.6VDC	403.515829	403.51	14.5	100	Pass
	Extreme Temperature +45°C	403.512141	403.51	5.3	100	Pass
	Extreme Temperature +35°C	403.513845	403.51	9.5	100	Pass
	Extreme Temperature +25°C	403.515796	403.51	14.4	100	Pass
SN: 70100059						
	Extreme Voltage +9.3VDC	403.513478	403.51	8.6	100	Pass
	Extreme Voltage +8.6VDC	403.513495	403.51	8.7	100	Pass
	Extreme Temperature +45°C	403.509919	403.51	0.2	100	Pass
	Extreme Temperature +35°C	403.512225	403.51	5.5	100	Pass
	Extreme Temperature +25°C	403.513477	403.51	8.6	100	Pass
SN: 70100066						
	Extreme Voltage +9.3VDC	403.514311	403.51	10.7	100	Pass
	Extreme Voltage +8.6VDC	403.514377	403.51	10.9	100	Pass
	Extreme Temperature +45°C	403.51129	403.51	3.2	100	Pass
	Extreme Temperature +35°C	403.512743	403.51	6.8	100	Pass
	Extreme Temperature +25°C	403.514412	403.51	10.9	100	Pass

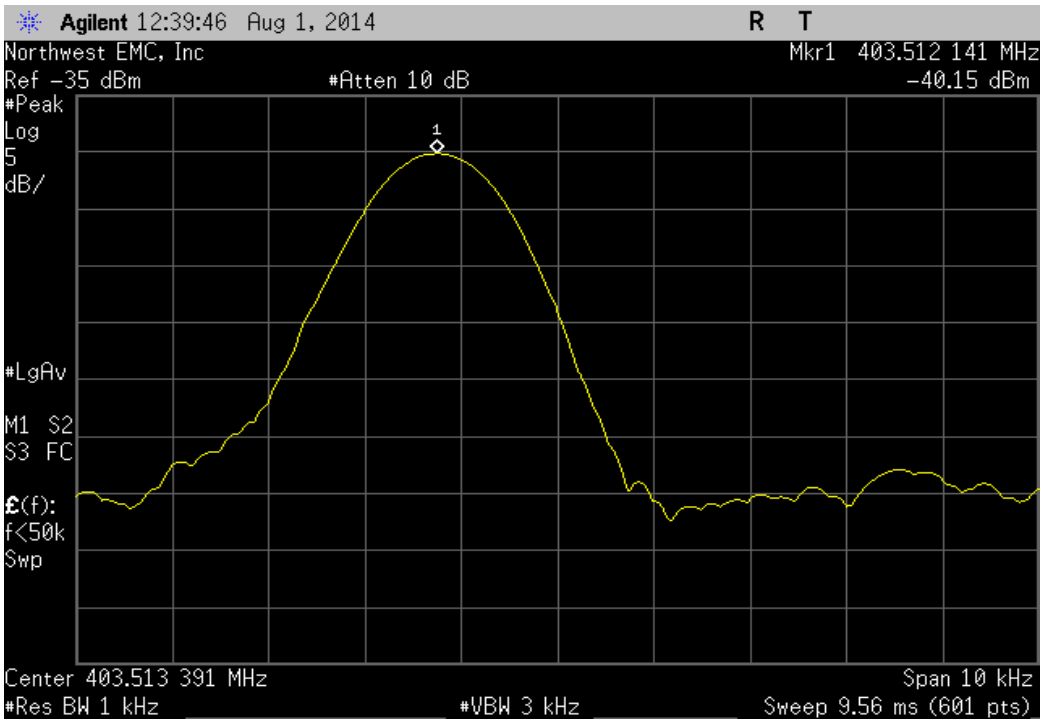
SN: 70100064, Extreme Voltage +9.3VDC						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.515845	403.51	14.5	100	Pass



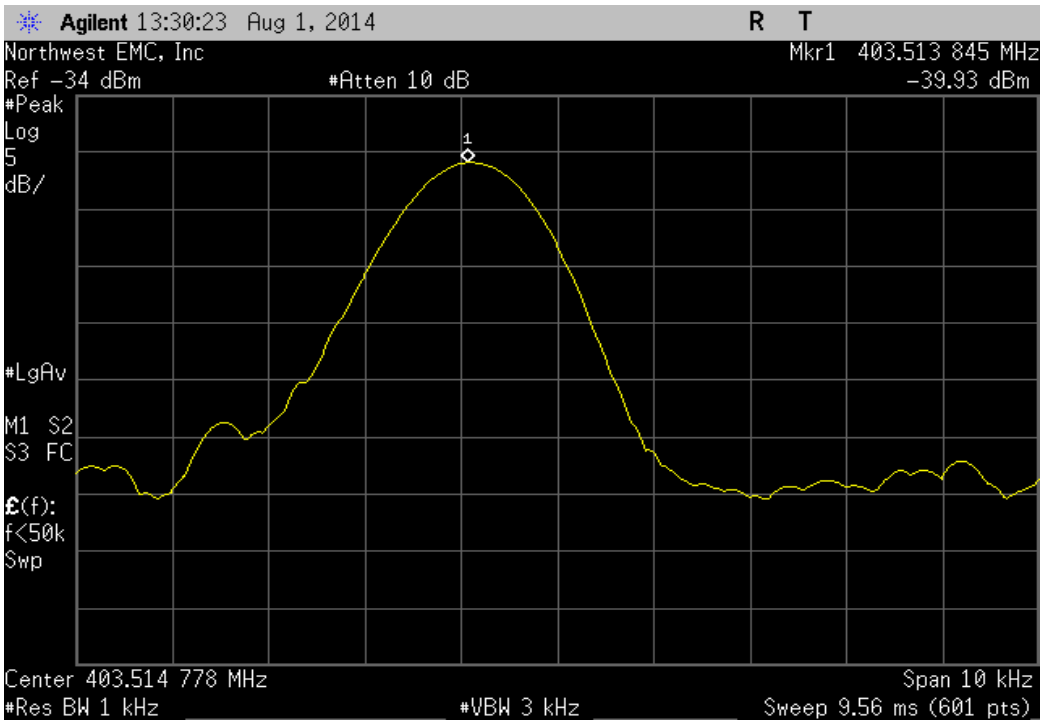
SN: 70100064, Extreme Voltage +8.6VDC						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.515829	403.51	14.5	100	Pass



SN: 70100064, Extreme Temperature +45°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.512141	403.51	5.3	100	Pass

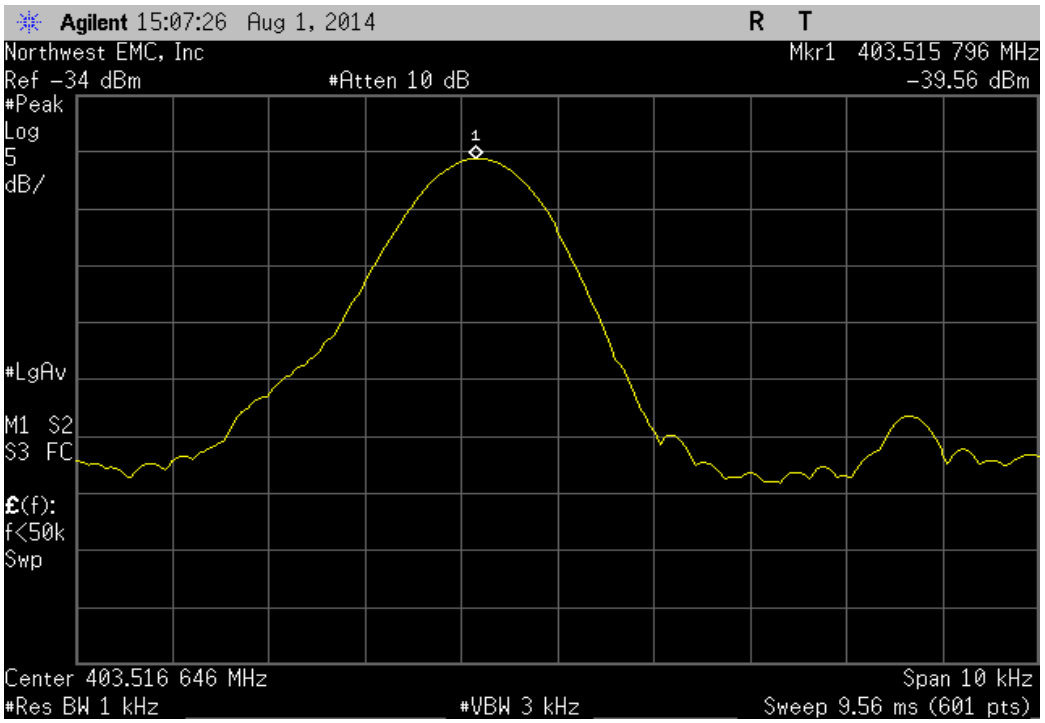


SN: 70100064, Extreme Temperature +35°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.513845	403.51	9.5	100	Pass

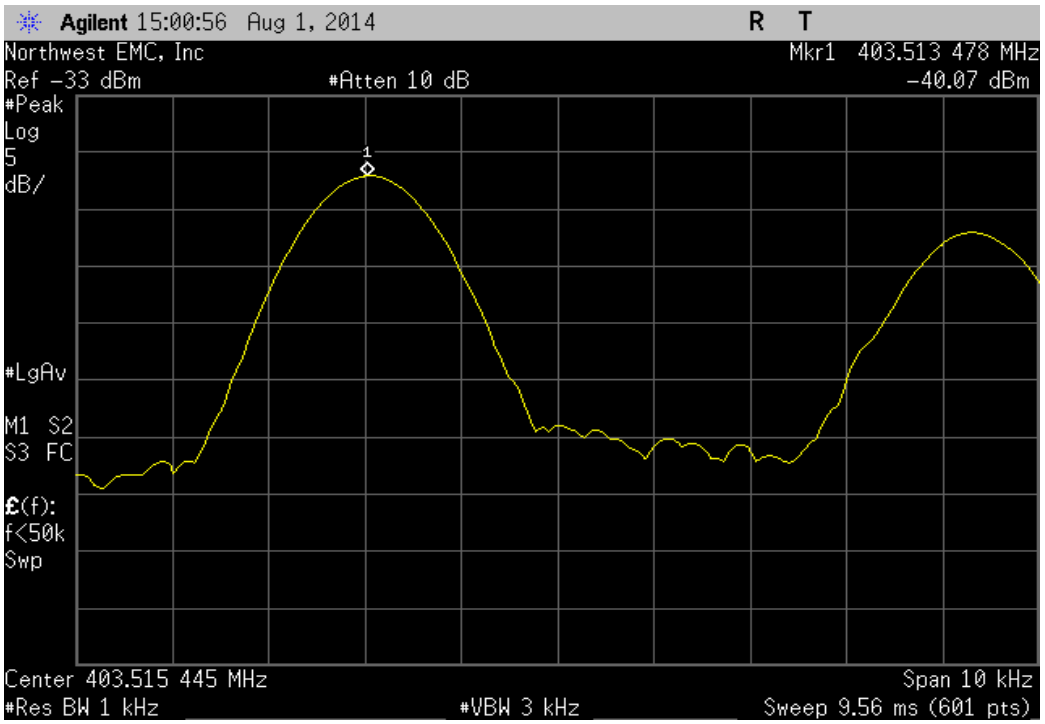


FREQUENCY STABILITY

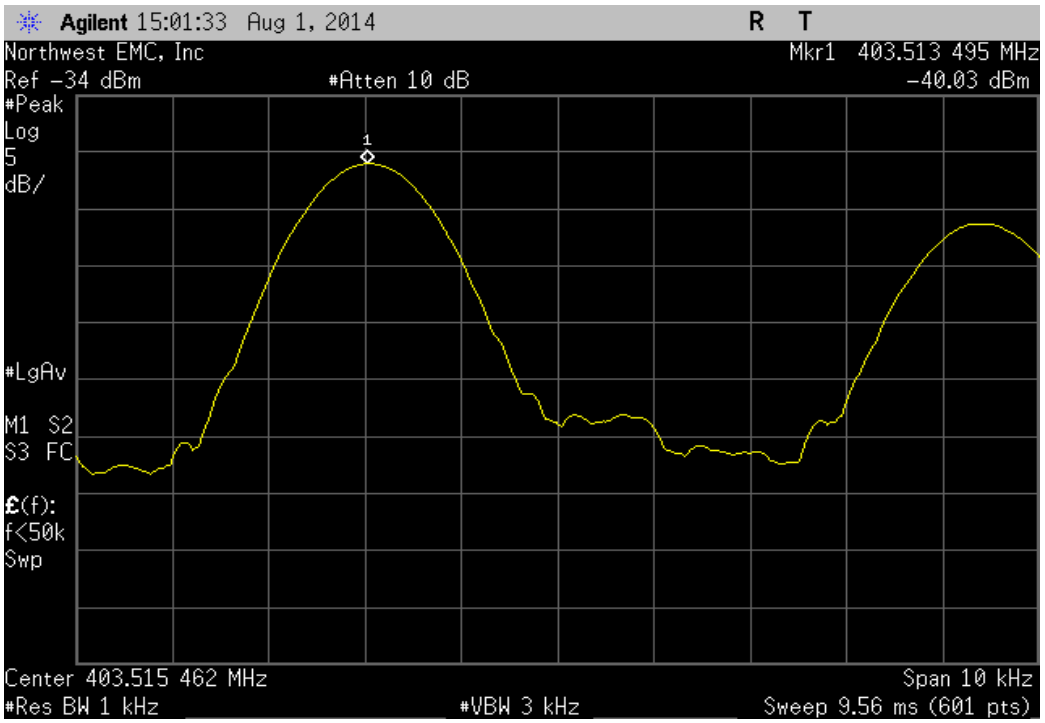
SN: 70100064, Extreme Temperature +25°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.515796	403.51	14.4	100	Pass



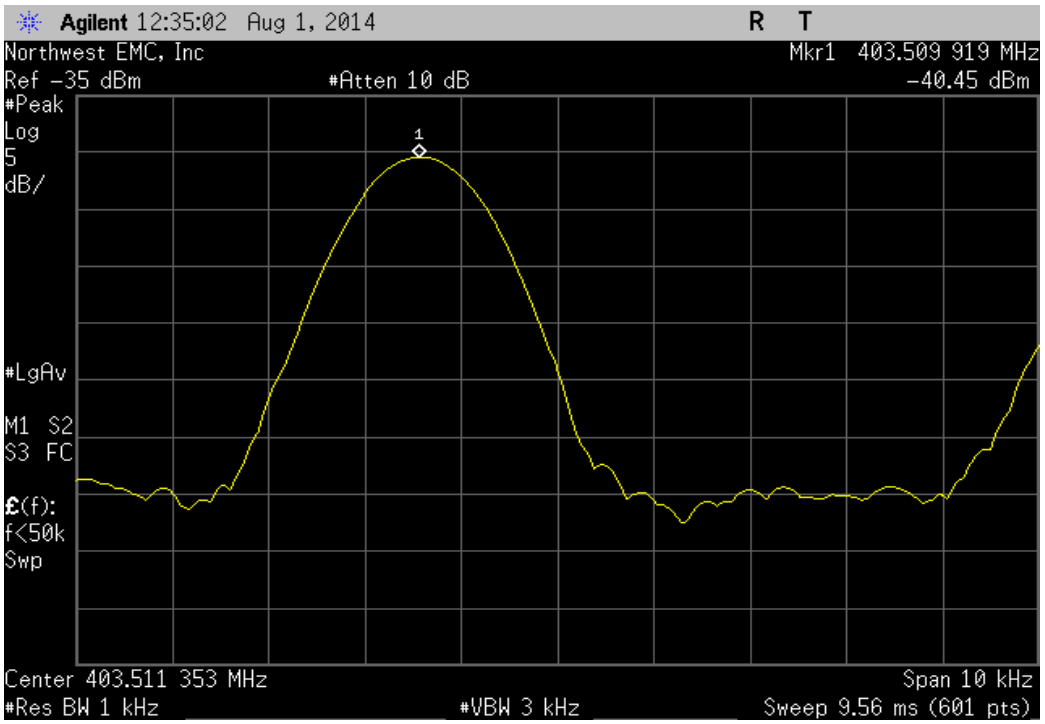
SN: 70100059, Extreme Voltage +9.3VDC						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.513478	403.51	8.6	100	Pass



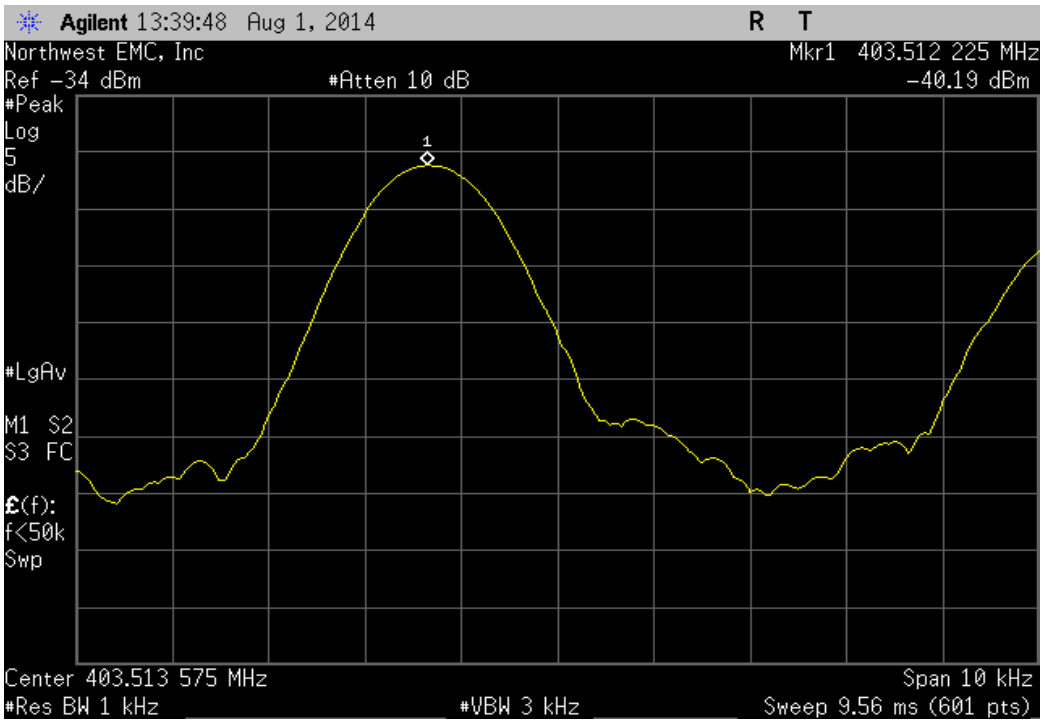
SN: 70100059, Extreme Voltage +8.6VDC						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.513495	403.51	8.7	100	Pass



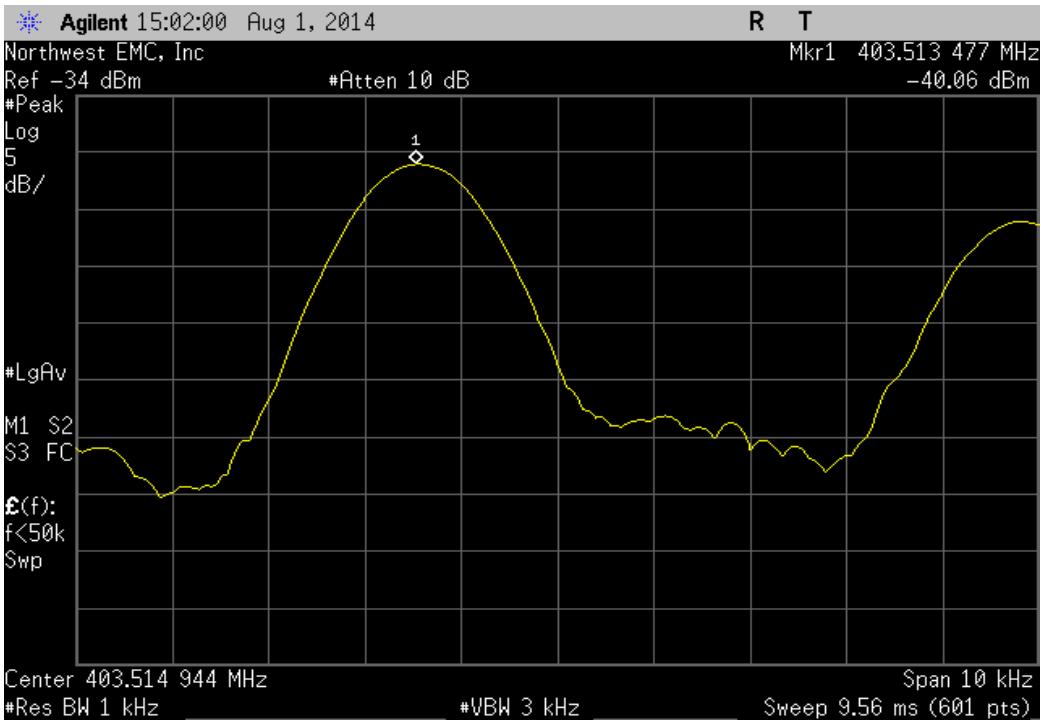
SN: 70100059, Extreme Temperature +45°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.509919	403.51	0.2	100	Pass



SN: 70100059, Extreme Temperature +35°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.512225	403.51	5.5	100	Pass

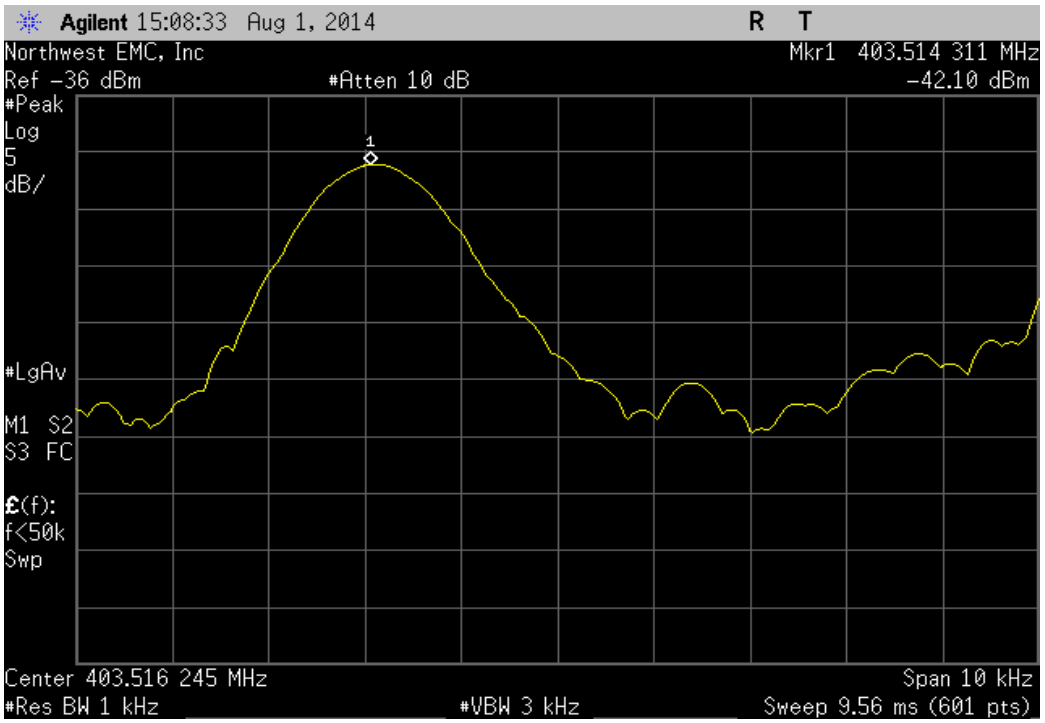


SN: 70100059, Extreme Temperature +25°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.513477	403.51	8.6	100	Pass



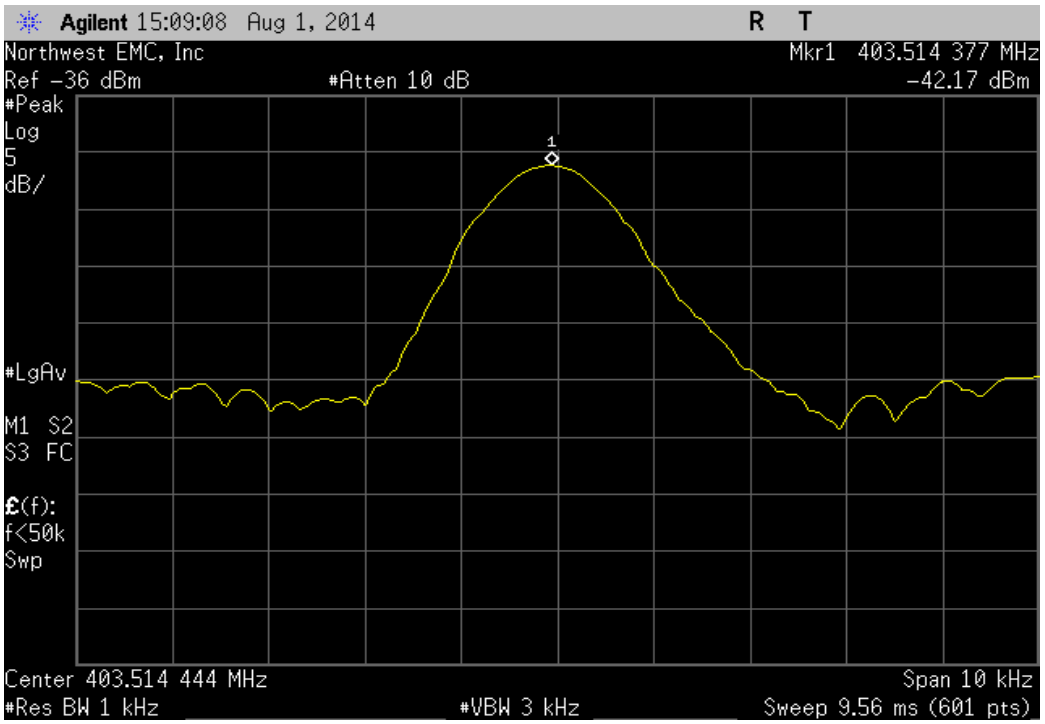
SN: 70100066, Extreme Voltage +9.3VDC

		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.514311	403.51	10.7	100	Pass

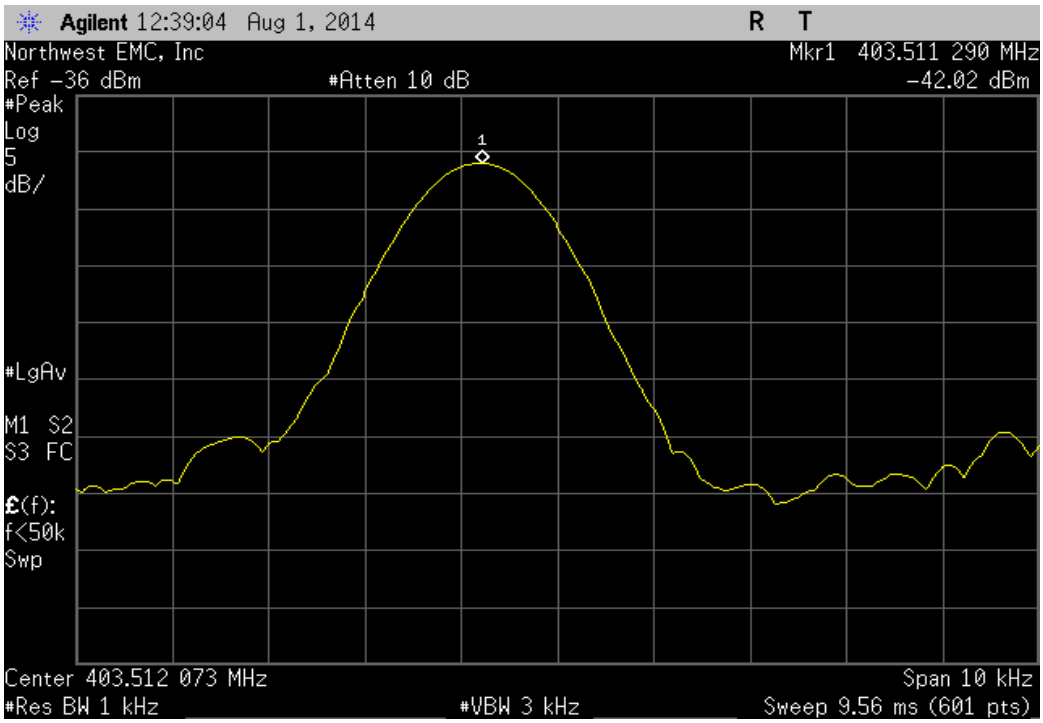


SN: 70100066, Extreme Voltage +8.6VDC

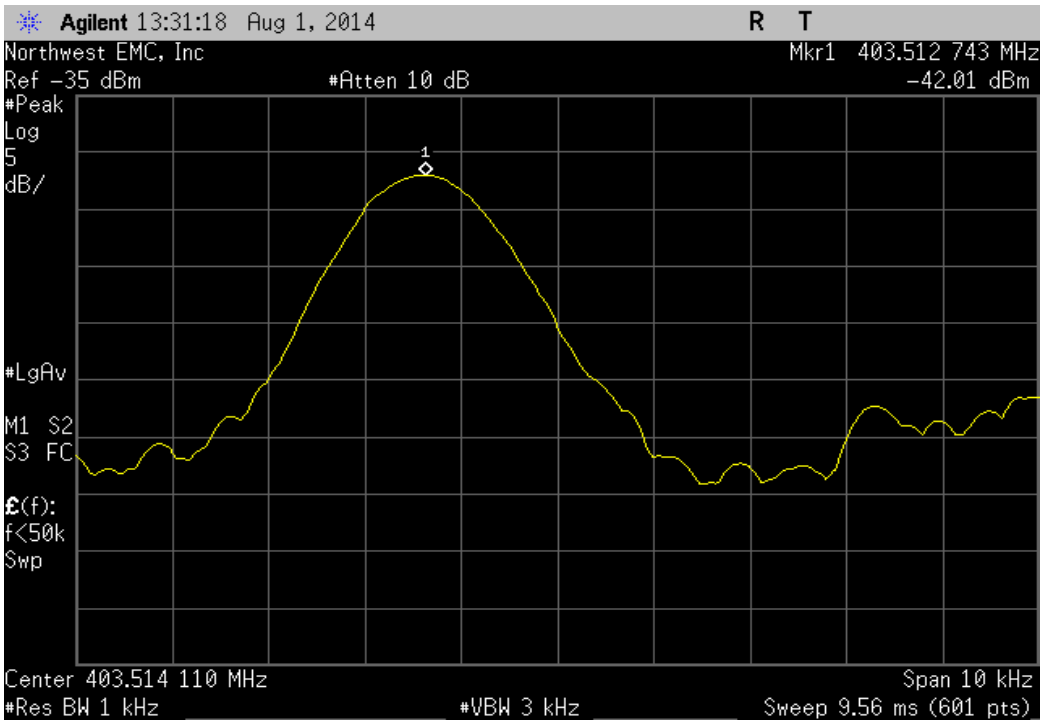
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.514377	403.51	10.9	100	Pass



SN: 70100066, Extreme Temperature +45°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.51129	403.51	3.2	100	Pass

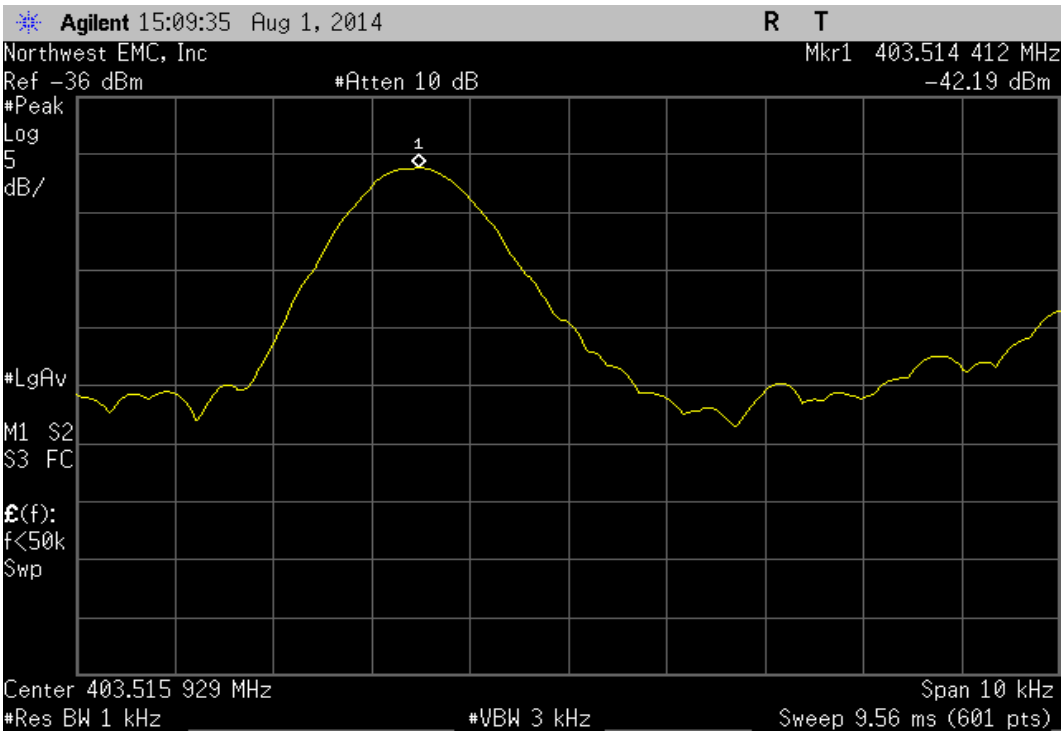


SN: 70100066, Extreme Temperature +35°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.512743	403.51	6.8	100	Pass



FREQUENCY STABILITY

SN: 70100066, Extreme Temperature +25°C						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.514412	403.51	10.9	100	Pass



RADIATED POWER (EIRP)

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 MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0488 - 1
BSTN0488 - 2
BSTN0488 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 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
Dielectric Probe Kit	Agilent	85070E	IPP	NCR	0 mo
RF Ecal Module	Agilent	85092C	NAMA	12/19/2013	36 mo
Network Analyzer	Agilent	E5071C	NAM	11/28/2013	36 mo
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36 mo
Power Sensor	Agilent	N8481A	SQN	8/27/2012	24 mo
Power Meter	Agilent	N1913A	SQL	8/27/2012	24 mo
Antenna, Dipole	EMCO	3121C-DB4	ADI	12/21/2012	36 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	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

Per 95.627(g)(3), the maximum radiated field strength for a MICS transmitter is 25uW EIRP. The Field Strength of the Fundamental data was converted to EIRP with the formula based upon the Friis transmission equation with 6 dB removed due to reflections from the ground plane: EIRP = ((E/2)*d)^2/30 where E is V/m and d = distance = 3m, and EIRP = W.

The Field Strength of the Fundamental was measured in the far-field at an FCC Listed Semi-anechoic Chamber. Spectrum analyzer and linearly polarized antennas were used to measure the radiated field strength of the fundamental.

The orientation of the EUT and measurement antenna were manipulated to maximize the level of emissions. The turntable azimuth was varied to maximize the level of radiated emissions. The height of the measurement antenna was also varied from 1 to 4 meters. The amplitude and frequency of the emissions were noted.

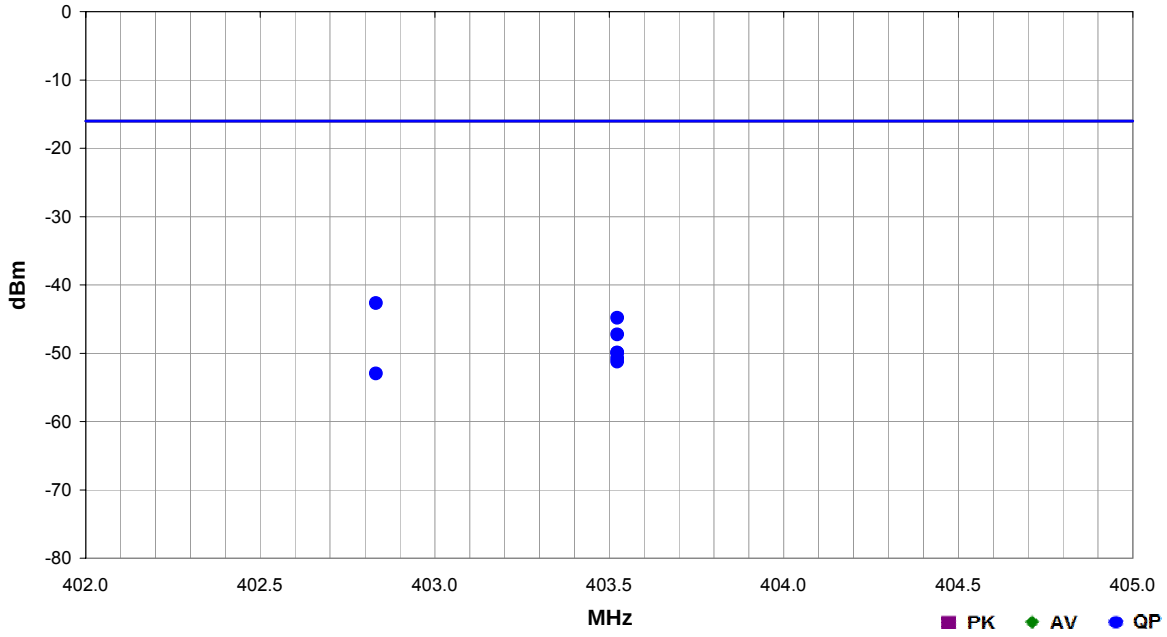
The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.627(i) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

RADIATED POWER (EIRP)

Work Order:	BSTN0488	**Date:**	07/28/14		
Project:	None	**Temperature:**	23.3 °C		
Job Site:	MN05	**Humidity:**	46.6% RH		
Serial Number:	100140	**Barometric Pres.:**	1022.1 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	1				
Customer:	Boston Scientific Corporation				
Attendees:	Dan Landherr				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C:2004

Run #	1	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



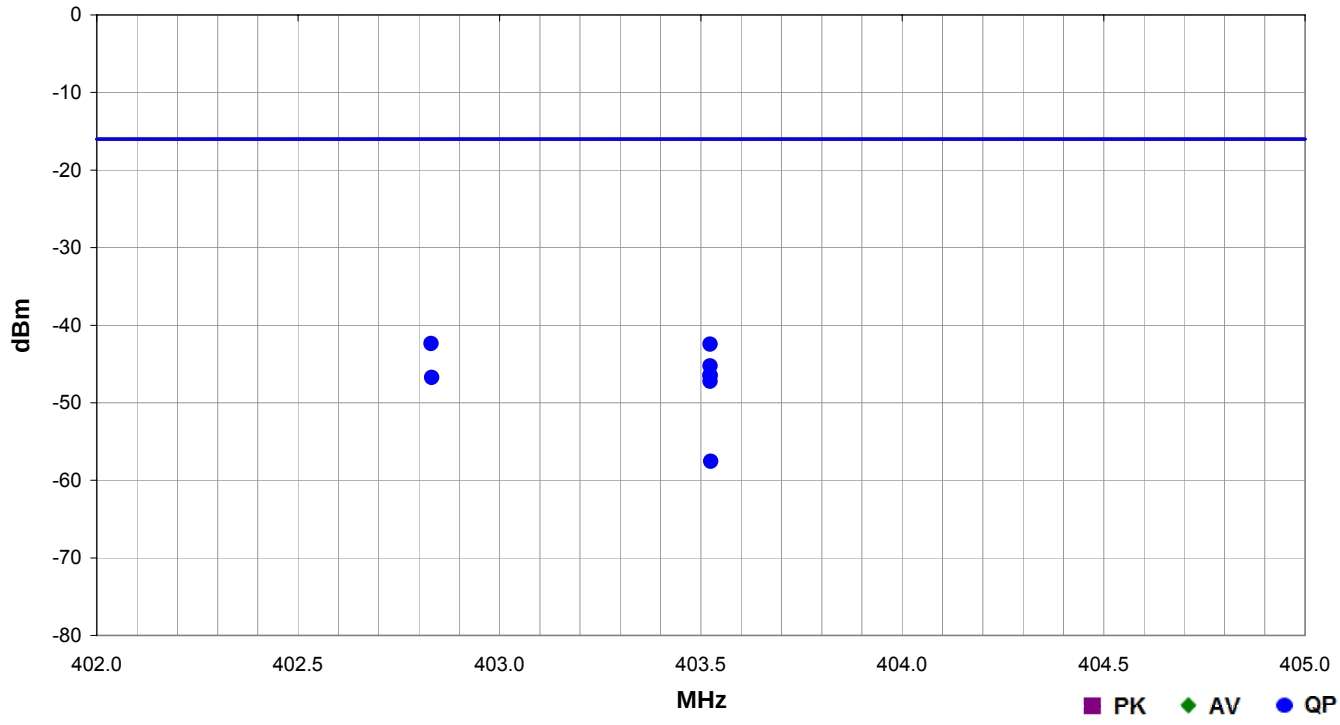
	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments	
	402.832	1.1	319.0	Horz	QP	5.42E-08	-42.7	-16.0	-26.7	EUT Horizontal, Low Ch	
	403.523	1.2	328.0	Horz	QP	3.28E-08	-44.8	-16.0	-28.8	EUT Horizontal, High Ch	
	403.523	1.6	357.0	Vert	QP	1.89E-08	-47.2	-16.0	-31.2	EUT Vertical, High Ch	
	403.523	1.2	316.0	Horz	QP	1.01E-08	-49.9	-16.0	-33.9	EUT On Side, High Ch	
	403.523	1.5	28.0	Vert	QP	1.01E-08	-49.9	-16.0	-33.9	EUT On Side, High Ch	
	403.523	1.0	230.0	Vert	QP	8.43E-09	-50.7	-16.0	-34.7	EUT Horizontal, High Ch	
	403.523	1.0	78.0	Horz	QP	7.51E-09	-51.2	-16.0	-35.2	EUT Vertical, High Ch	
	402.832	1.6	41.0	Vert	QP	5.06E-09	-53.0	-16.0	-37.0	EUT Horizontal, Low Ch	

RADIATED POWER (EIRP)

Work Order:	BSTN0488	**Date:**	07/28/14		
Project:	None	**Temperature:**	23.3 °C		
Job Site:	MN05	**Humidity:**	46.6% RH		
Serial Number:	100182	**Barometric Pres.:**	1022.1 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	Dan Landherr				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C:2004

Run #	2	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



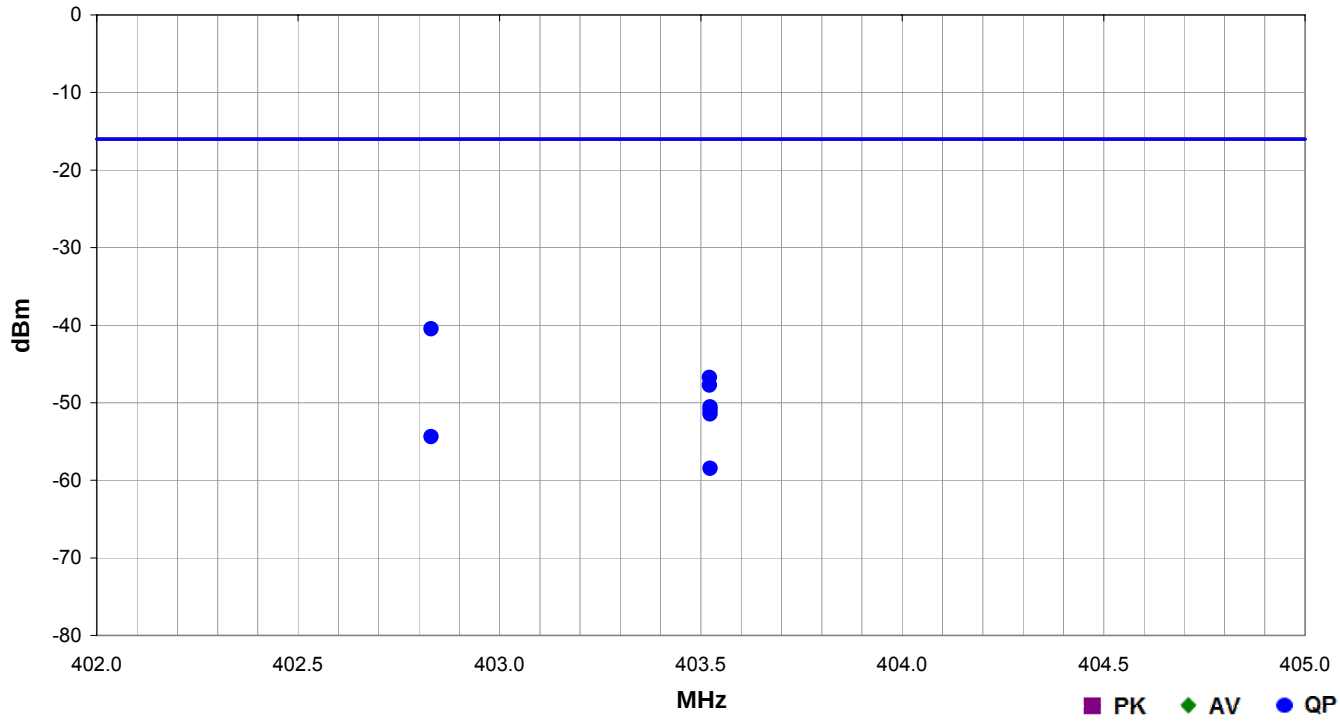
	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	402.830	1.6	321.0	Vert	QP	5.81E-08	-42.4	-16.0	-26.4	EUT On Side, Low Ch
	403.523	1.6	319.0	Vert	QP	5.70E-08	-42.4	-16.0	-26.4	EUT On Side, High Ch
	403.523	1.6	326.0	Vert	QP	2.99E-08	-45.2	-16.0	-29.2	EUT Vertical, High Ch
	403.523	1.1	246.0	Horz	QP	2.27E-08	-46.4	-16.0	-30.4	EUT Vertical, High Ch
	403.523	1.2	104.0	Horz	QP	2.22E-08	-46.5	-16.0	-30.5	EUT Horizontal, High Ch
	402.832	1.9	211.0	Horz	QP	2.11E-08	-46.8	-16.0	-30.8	EUT On Side, Low Ch
	403.523	2.0	220.0	Horz	QP	1.89E-08	-47.2	-16.0	-31.2	EUT On Side, High Ch
	403.525	1.0	93.0	Vert	QP	1.76E-09	-57.5	-16.0	-41.5	EUT Horizontal, High Ch

RADIATED POWER (EIRP)

Work Order:	BSTN0488	**Date:**	07/28/14		
Project:	None	**Temperature:**	23.3 °C		
Job Site:	MN05	**Humidity:**	46.6% RH		
Serial Number:	100192	**Barometric Pres.:**	1022.1 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	Dan Landherr				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C:2004

Run #	3	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	402.830	1.2	291.0	Horz	QP	8.99E-08	-40.5	-16.0	-24.5	EUT Horizontal, Low Ch
	403.522	1.2	203.0	Horz	QP	2.12E-08	-46.7	-16.0	-30.7	EUT Horizontal, High Ch
	403.522	1.6	333.0	Vert	QP	1.68E-08	-47.7	-16.0	-31.7	EUT Vertical, High Ch
	403.523	1.9	79.0	Horz	QP	8.82E-09	-50.5	-16.0	-34.5	EUT Vertical, High Ch
	403.523	1.0	62.0	Horz	QP	8.05E-09	-50.9	-16.0	-34.9	EUT On Side, High Ch
	403.523	1.0	109.0	Vert	QP	7.17E-09	-51.4	-16.0	-35.4	EUT On Side, High Ch
	402.830	2.7	101.0	Vert	QP	3.66E-09	-54.4	-16.0	-38.4	EUT Horizontal, Low Ch
	403.523	1.0	122.0	Vert	QP	1.43E-09	-58.4	-16.0	-42.4	EUT Horizontal, High Ch

TRANSMITTER SPURIOUS 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 MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0488 - 1
BSTN0488 - 2
BSTN0488 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	25 MHz	Stop Frequency	5000 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
Dielectric Probe Kit	Agilent	85070E	IPP	NCR	0 mo
RF Ecal Module	Agilent	85092C	NAMA	12/19/2013	36 mo
Network Analyzer	Agilent	E5071C	NAM	11/28/2013	36 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo
Comb Generator Emitter	ARC Technical Resources, Inc.	CGE01KIT01	TUB	NCR	0 mo
Comb Generator Radiated	KJR Enterprises	Harmonics	TCT	NCR	0 mo
Humidity Temperature Meter	Omega Engineering, Inc.	HH31	DUB	10/25/2011	36 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 EUT was operated in the modes noted in the data sheets. The spectrum was scanned from 25 MHz to 5 GHz. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height (1-4 meters) and polarization. A preamp was used for this test in order to provide sufficient measurement sensitivity. The amplitude and frequency of the highest emissions were noted. The measuring receiver (spectrum analyzer) was configured with the resolution and video bandwidths as called out the specification specific to the frequencies being measured.

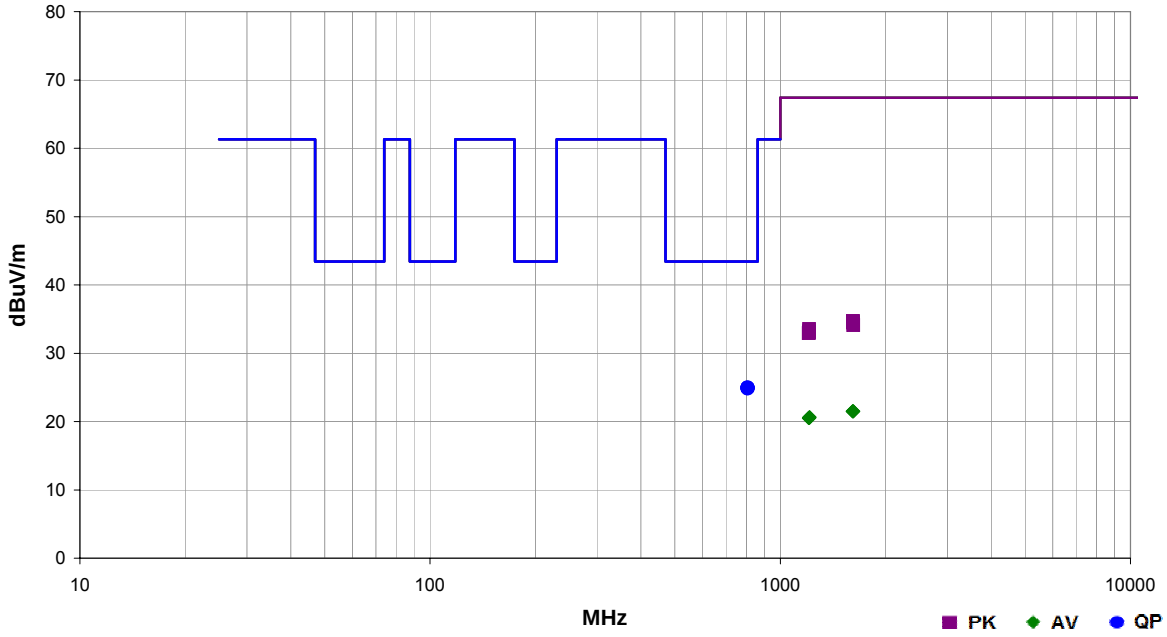
The EUT was then replaced with a ½ wave dipole that was successively tuned to each of the highest spurious emissions or a horn antenna, dependent on the frequency being measured. A signal generator was connected to the dipole (horn antenna for frequencies above 1 GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

TRANSMITTER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/28/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	48.6% RH		
Serial Number:	100192	**Barometric Pres.:**	1021.7 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	4	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



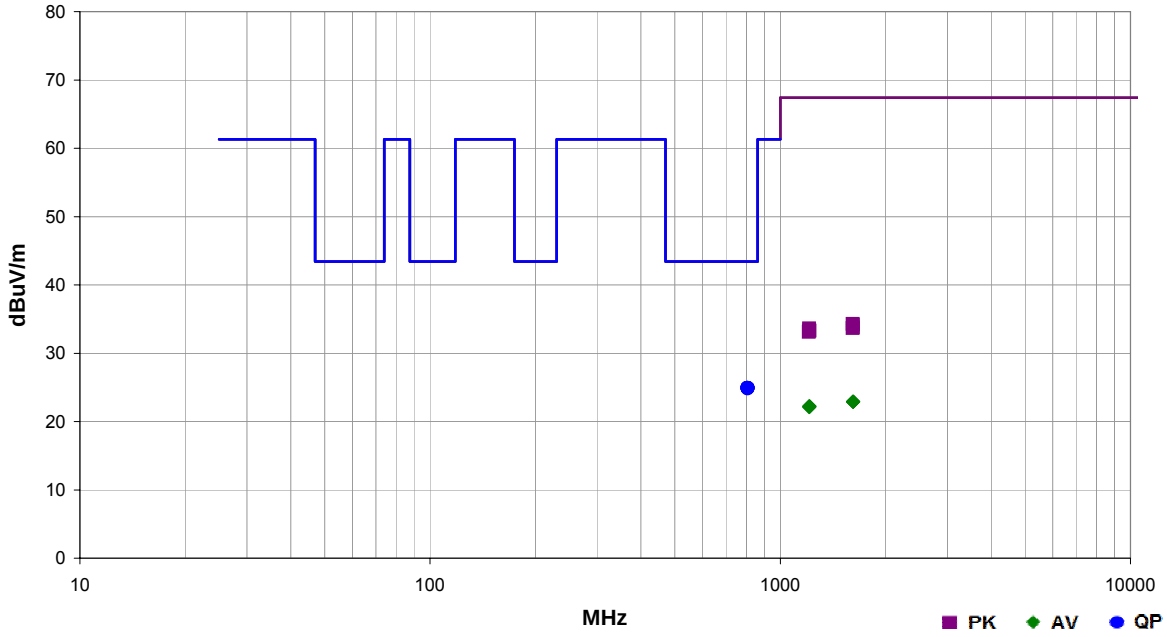
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
1613.573	40.1	-5.4	1.0	356.0	3.0	0.0	Vert	PK	0.0	34.7	50.4	-15.7	EUT Vertical, Low Ch
1612.473	40.1	-5.4	1.0	67.0	3.0	0.0	Horz	PK	0.0	34.7	50.4	-15.7	EUT Vertical, High Ch
1613.290	39.9	-5.4	1.0	346.0	3.0	0.0	Horz	PK	0.0	34.5	50.4	-15.9	EUT Vertical, Low Ch
1616.157	39.5	-5.4	1.0	249.0	3.0	0.0	Vert	PK	0.0	34.1	50.4	-16.3	EUT Vertical, High Ch
1208.947	40.0	-6.5	1.0	76.0	3.0	0.0	Vert	PK	0.0	33.5	50.4	-16.9	EUT Vertical, High Ch
1208.347	39.7	-6.5	1.0	63.0	3.0	0.0	Horz	PK	0.0	33.2	50.4	-17.2	EUT Vertical, Low Ch
1210.188	39.5	-6.5	1.8	239.0	3.0	0.0	Horz	PK	0.0	33.0	50.4	-17.4	EUT Vertical, High Ch
1207.680	39.4	-6.5	1.0	89.0	3.0	0.0	Vert	PK	0.0	32.9	50.4	-17.5	EUT Vertical, Low Ch
806.985	16.6	8.4	1.1	345.0	3.0	0.0	Vert	QP	0.0	25.0	43.4	-18.4	EUT Horizontal, Low Ch
807.818	16.5	8.4	1.0	7.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, High Ch
807.155	16.5	8.4	1.1	117.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
806.873	16.5	8.4	1.0	290.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
806.382	16.5	8.4	1.0	17.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT Vertical, High Ch
805.975	16.5	8.4	1.0	196.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, Low Ch
808.753	16.4	8.4	1.0	167.0	3.0	0.0	Vert	QP	0.0	24.8	43.4	-18.6	EUT Horizontal, High Ch
805.752	16.4	8.4	3.7	176.0	3.0	0.0	Horz	QP	0.0	24.8	43.4	-18.6	EUT Vertical, High Ch
1616.515	26.9	-5.4	1.0	249.0	3.0	0.0	Vert	AV	0.0	21.5	50.4	-28.9	EUT Vertical, High Ch
1612.998	26.9	-5.4	1.0	67.0	3.0	0.0	Horz	AV	0.0	21.5	50.4	-28.9	EUT Vertical, High Ch
1609.998	26.9	-5.4	1.0	346.0	3.0	0.0	Horz	AV	0.0	21.5	50.4	-28.9	EUT Vertical, Low Ch
1609.532	26.9	-5.4	1.0	356.0	3.0	0.0	Vert	AV	0.0	21.5	50.4	-28.9	EUT Vertical, Low Ch

TRANSMITTER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/29/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	51.3% RH		
Serial Number:	100182	**Barometric Pres.:**	1019.5 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	8	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



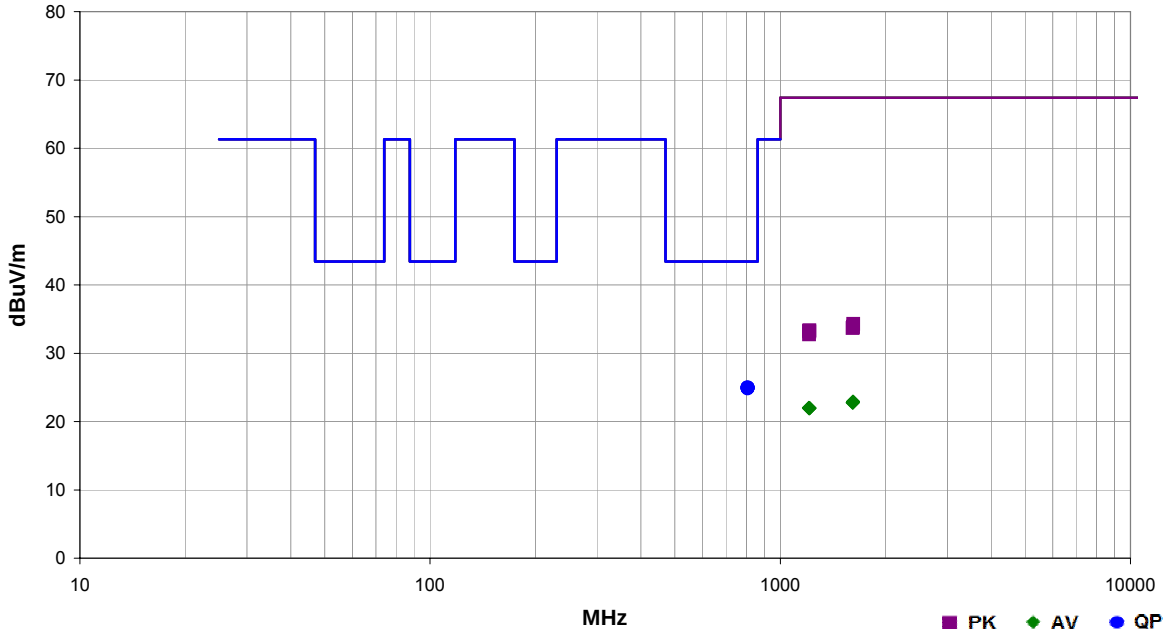
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
808.040	16.5	8.4	1.0	316.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT Vertical, High Ch
807.642	16.5	8.4	1.0	278.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
807.062	16.5	8.4	3.2	106.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT Vertical, Low Ch
806.942	16.5	8.4	1.0	128.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
806.512	16.5	8.4	1.0	3.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Vertical, Low Ch
806.442	16.5	8.4	1.0	16.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Vertical, High Ch
805.225	16.5	8.4	1.0	25.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, High Ch
806.935	16.4	8.4	1.3	229.0	3.0	0.0	Vert	QP	0.0	24.8	43.4	-18.6	EUT Horizontal, High Ch
1610.907	39.7	-5.4	1.0	138.0	3.0	0.0	Vert	PK	0.0	34.3	67.4	-33.1	EUT Vertical, Low CH
1614.665	39.6	-5.4	1.0	170.0	3.0	0.0	Horz	PK	0.0	34.2	67.4	-33.2	EUT Vertical, High Ch
1614.690	39.2	-5.4	2.8	268.0	3.0	0.0	Vert	PK	0.0	33.8	67.4	-33.6	EUT Vertical, High Ch
1610.873	39.1	-5.4	1.0	360.0	3.0	0.0	Horz	PK	0.0	33.7	67.4	-33.7	EUT Vertical, Low CH
1209.347	40.1	-6.5	2.4	132.0	3.0	0.0	Horz	PK	0.0	33.6	67.4	-33.8	EUT Vertical, High Ch
1212.005	39.8	-6.4	1.7	248.0	3.0	0.0	Vert	PK	0.0	33.4	67.4	-34.0	EUT Vertical, High Ch
1210.755	39.7	-6.5	3.2	159.0	3.0	0.0	Horz	PK	0.0	33.2	67.4	-34.2	EUT Vertical, Low CH
1206.272	39.6	-6.5	2.1	11.0	3.0	0.0	Vert	PK	0.0	33.1	67.4	-34.3	EUT Vertical, Low CH
1615.648	28.3	-5.4	1.0	170.0	3.0	0.0	Horz	AV	0.0	22.9	67.4	-44.5	EUT Vertical, High Ch
1614.257	28.3	-5.4	2.8	268.0	3.0	0.0	Vert	AV	0.0	22.9	67.4	-44.5	EUT Vertical, High Ch
1613.198	28.3	-5.4	1.0	360.0	3.0	0.0	Horz	AV	0.0	22.9	67.4	-44.5	EUT Vertical, Low CH
1612.073	28.3	-5.4	1.0	138.0	3.0	0.0	Vert	AV	0.0	22.9	67.4	-44.5	EUT Vertical, Low CH

TRANSMITTER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/29/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	51.3% RH		
Serial Number:	100140	**Barometric Pres.:**	1019.5 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	1				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	15	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



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
806.795	16.6	8.4	1.0	19.0	3.0	0.0	Vert	QP	0.0	25.0	43.4	-18.4	EUT Horizontal, Low Ch
808.100	16.5	8.4	3.2	0.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, High Ch
807.985	16.5	8.4	1.0	255.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
807.870	16.5	8.4	1.0	288.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, High Ch
807.243	16.5	8.4	1.0	240.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT On Side, High Ch
807.133	16.5	8.4	2.9	91.0	3.0	0.0	Vert	QP	0.0	24.9	43.4	-18.5	EUT Vertical, High Ch
805.663	16.5	8.4	1.0	113.0	3.0	0.0	Horz	QP	0.0	24.9	43.4	-18.5	EUT Horizontal, Low Ch
807.097	16.4	8.4	1.0	270.0	3.0	0.0	Horz	QP	0.0	24.8	43.4	-18.6	EUT Vertical, High Ch
1615.365	39.7	-5.4	1.0	34.0	3.0	0.0	Vert	PK	0.0	34.3	67.4	-33.1	EUT Horizontal, High Ch
1612.540	39.3	-5.4	1.0	275.0	3.0	0.0	Vert	PK	0.0	33.9	67.4	-33.5	EUT Horizontal, Low Ch
1614.457	39.2	-5.4	1.9	239.0	3.0	0.0	Horz	PK	0.0	33.8	67.4	-33.6	EUT Horizontal, High Ch
1610.140	39.1	-5.4	1.3	34.0	3.0	0.0	Horz	PK	0.0	33.7	67.4	-33.7	EUT Horizontal, Low Ch
1210.655	39.8	-6.5	1.0	360.0	3.0	0.0	Horz	PK	0.0	33.3	67.4	-34.1	EUT Horizontal, Low Ch
1209.463	39.7	-6.5	1.0	127.0	3.0	0.0	Vert	PK	0.0	33.2	67.4	-34.2	EUT Horizontal, Low Ch
1211.305	39.6	-6.5	1.3	282.0	3.0	0.0	Horz	PK	0.0	33.1	67.4	-34.3	EUT Horizontal, High Ch
1210.280	39.2	-6.5	1.0	72.0	3.0	0.0	Vert	PK	0.0	32.7	67.4	-34.7	EUT Horizontal, High Ch
1614.132	28.3	-5.4	1.0	34.0	3.0	0.0	Vert	AV	0.0	22.9	67.4	-44.5	EUT Horizontal, High Ch
1612.207	28.3	-5.4	1.9	239.0	3.0	0.0	Horz	AV	0.0	22.9	67.4	-44.5	EUT Horizontal, High Ch
1610.190	28.2	-5.4	1.0	275.0	3.0	0.0	Vert	AV	0.0	22.8	67.4	-44.6	EUT Horizontal, Low Ch
1609.398	28.2	-5.4	1.3	34.0	3.0	0.0	Horz	AV	0.0	22.8	67.4	-44.6	EUT Horizontal, Low Ch

RECEIVER SPURIOUS 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

Receiving MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0488 - 1
BSTN0488 - 2
BSTN0488 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	25 MHz	Stop Frequency	5000 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
Dielectric Probe Kit	Agilent	85070E	IPP	NCR	0 mo
RF Ecal Module	Agilent	85092C	NAMA	12/19/2013	36 mo
Network Analyzer	Agilent	E5071C	NAM	11/28/2013	36 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo
Comb Generator Emitter	ARC Technical Resources, Inc.	CGE01KIT01	TUB	NCR	0 mo
Comb Generator Radiated	KJR Enterprises	Harmonics	TCT	NCR	0 mo
Humidity Temperature Meter	Omega Engineering, Inc.	HH31	DUB	10/25/2011	36 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

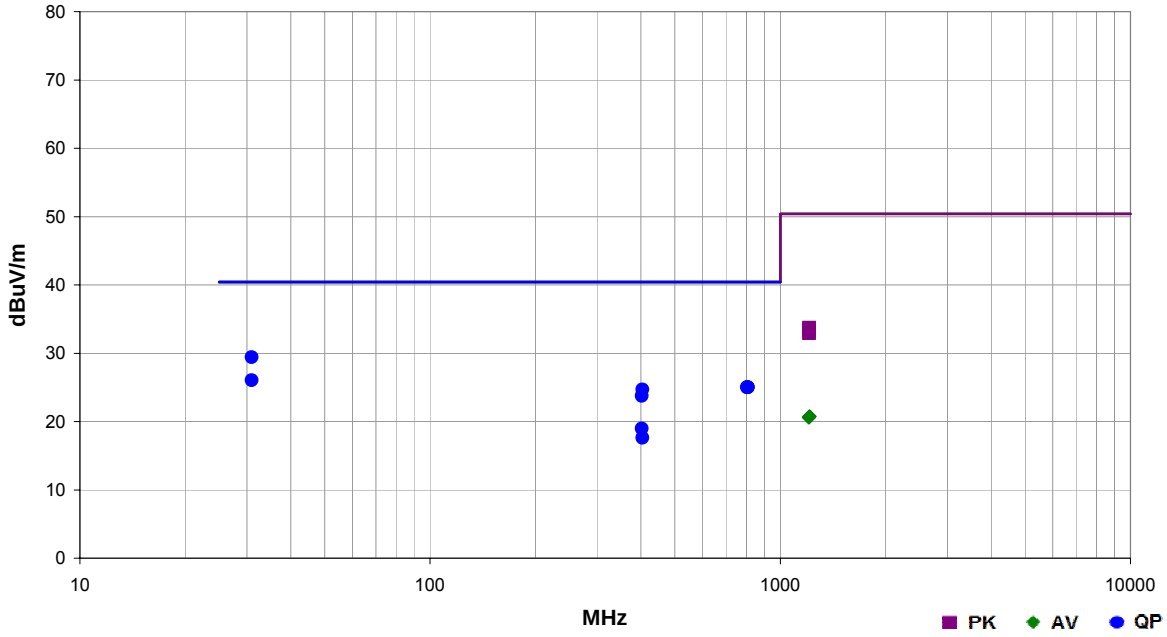
The EUT was operated in receive mode. The spectrum was scanned from 25 MHz to 5 GHz with the EUT set to the channels called out for of each band. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height (1-4 meters) and polarization. The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a ½ wave dipole (horn antenna for frequencies above 1 GHz) that was successively tuned to each of the highest spurious emissions. A signal generator was connected to the dipole or horn and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the reference antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/28/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	48.6% RH		
Serial Number:	100192	**Barometric Pres.:**	1021.7 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Receiving MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	6	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



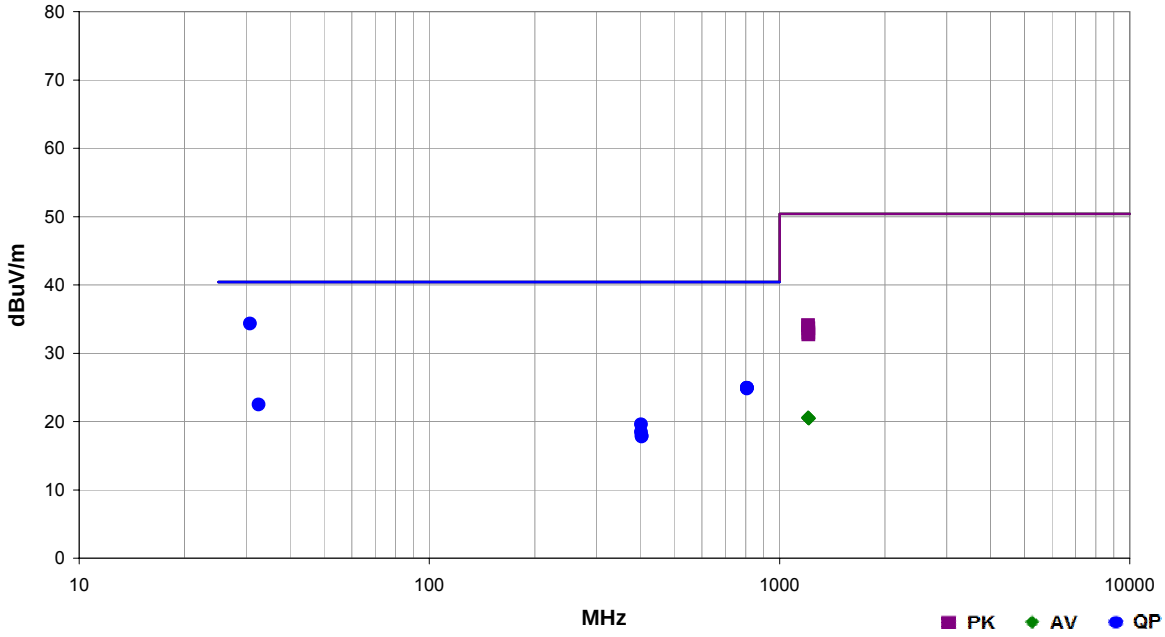
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
30.982	24.8	4.6	2.7	322.0	3.0	0.0	Vert	QP	0.0	29.4	40.4	-11.0	EUT Horizontal, High Ch
30.934	21.4	4.7	3.7	121.0	3.0	0.0	Vert	QP	0.0	26.1	40.4	-14.3	EUT Horizontal, Low Ch
808.503	16.6	8.4	1.0	269.0	3.0	0.0	Horz	QP	0.0	25.0	40.4	-15.4	EUT Horizontal, High Ch
807.278	16.6	8.4	1.0	47.0	3.0	0.0	Horz	QP	0.0	25.0	40.4	-15.4	EUT Horizontal, Low Ch
806.508	16.6	8.4	1.0	148.0	3.0	0.0	Vert	QP	0.0	25.0	40.4	-15.4	EUT Horizontal, High Ch
804.760	16.6	8.4	1.0	24.0	3.0	0.0	Vert	QP	0.0	25.0	40.4	-15.4	EUT Horizontal, Low Ch
403.673	23.9	0.8	1.2	279.0	3.0	0.0	Horz	QP	0.0	24.7	40.4	-15.7	EUT Horizontal, High Ch
402.680	23.0	0.8	2.3	329.0	3.0	0.0	Horz	QP	0.0	23.8	40.4	-16.6	EUT Horizontal, Low Ch
1209.963	40.2	-6.5	1.0	60.0	3.0	0.0	Vert	PK	0.0	33.7	50.4	-16.7	EUT Vertical, High Ch
1210.005	39.8	-6.5	3.5	261.0	3.0	0.0	Vert	PK	0.0	33.3	50.4	-17.1	EUT Vertical, Low Ch
1208.963	39.8	-6.5	1.0	293.0	3.0	0.0	Horz	PK	0.0	33.3	50.4	-17.1	EUT Vertical, High Ch
1209.797	39.4	-6.5	1.0	284.0	3.0	0.0	Horz	PK	0.0	32.9	50.4	-17.5	EUT Vertical, Low Ch
402.682	18.2	0.8	1.0	115.0	3.0	0.0	Vert	QP	0.0	19.0	40.4	-21.4	EUT Horizontal, Low Ch
403.678	16.8	0.8	2.0	273.0	3.0	0.0	Vert	QP	0.0	17.6	40.4	-22.8	EUT Horizontal, High Ch
1212.772	27.2	-6.4	1.0	60.0	3.0	0.0	Vert	AV	0.0	20.8	50.4	-29.6	EUT Vertical, High Ch
1212.488	27.2	-6.4	1.0	293.0	3.0	0.0	Horz	AV	0.0	20.8	50.4	-29.6	EUT Vertical, High Ch
1206.222	27.1	-6.5	1.0	284.0	3.0	0.0	Horz	AV	0.0	20.6	50.4	-29.8	EUT Vertical, Low Ch
1205.938	27.1	-6.5	3.5	261.0	3.0	0.0	Vert	AV	0.0	20.6	50.4	-29.8	EUT Vertical, Low Ch

RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/29/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	51.3% RH		
Serial Number:	100182	**Barometric Pres.:**	1019.5 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Receiving MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	11	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



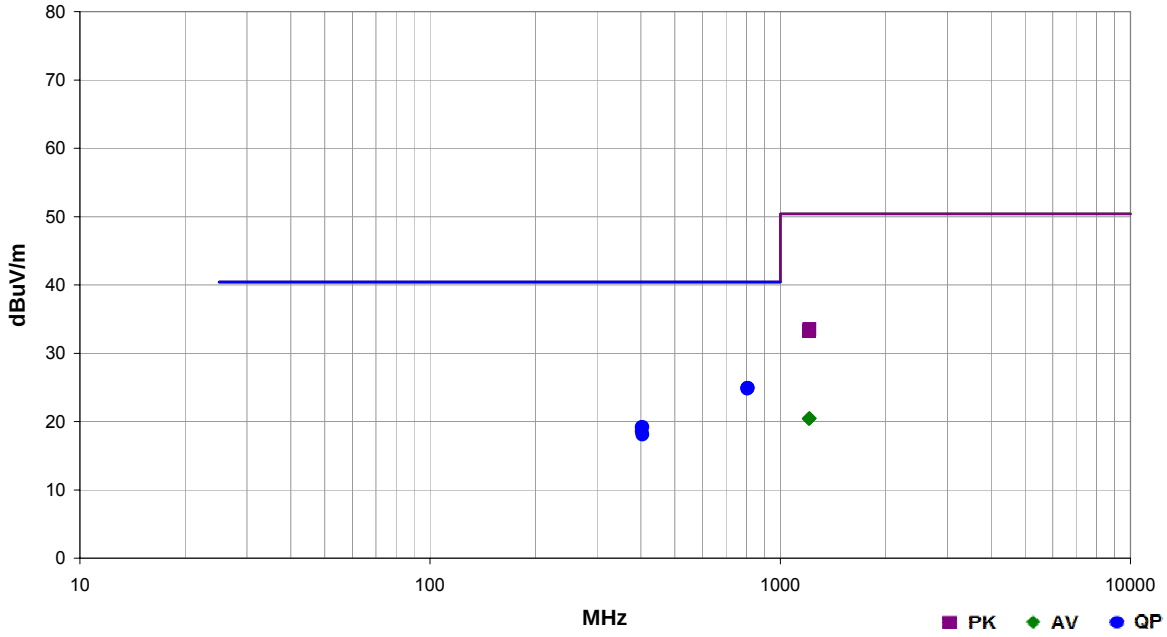
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
30.782	29.6	4.7	1.0	38.0	3.0	0.0	Vert	QP	0.0	34.3	40.4	-6.1	EUT Vertical, High Ch
806.947	16.5	8.4	1.0	329.0	3.0	0.0	Vert	QP	0.0	24.9	40.4	-15.5	EUT Vertical, Low Ch
806.680	16.5	8.4	1.0	133.0	3.0	0.0	Horz	QP	0.0	24.9	40.4	-15.5	EUT Vertical, High Ch
806.668	16.5	8.4	1.0	65.0	3.0	0.0	Vert	QP	0.0	24.9	40.4	-15.5	EUT Vertical, High Ch
806.835	16.4	8.4	1.0	107.0	3.0	0.0	Horz	QP	0.0	24.8	40.4	-15.6	EUT Vertical, Low Ch
32.569	18.6	3.9	1.0	271.0	3.0	0.0	Vert	QP	0.0	22.5	40.4	-17.9	EUT Vertical, Low Ch
402.678	18.8	0.8	1.0	255.0	3.0	0.0	Horz	QP	0.0	19.6	40.4	-20.8	EUT Vertical, Low Ch
402.683	17.7	0.8	1.0	317.0	3.0	0.0	Vert	QP	0.0	18.5	40.4	-21.9	EUT Vertical, Low Ch
403.683	17.1	0.8	1.0	48.0	3.0	0.0	Horz	QP	0.0	17.9	40.4	-22.5	EUT Vertical, High Ch
403.673	17.0	0.8	1.4	113.0	3.0	0.0	Vert	QP	0.0	17.8	40.4	-22.6	EUT Vertical, High Ch
1206.088	40.6	-6.5	3.0	96.0	3.0	0.0	Horz	PK	0.0	34.1	67.4	-33.3	EUT Vertical, Low Ch
1210.480	40.1	-6.5	1.0	242.0	3.0	0.0	Vert	PK	0.0	33.6	67.4	-33.8	EUT Vertical, Low Ch
1210.247	39.5	-6.5	1.0	151.0	3.0	0.0	Horz	PK	0.0	33.0	67.4	-34.4	EUT Vertical, High Ch
1210.430	39.2	-6.5	1.0	50.0	3.0	0.0	Vert	PK	0.0	32.7	67.4	-34.7	EUT Vertical, High Ch
1205.938	27.1	-6.5	3.0	96.0	3.0	0.0	Horz	AV	0.0	20.6	67.4	-46.8	EUT Vertical, Low Ch
1206.288	27.0	-6.5	1.0	242.0	3.0	0.0	Vert	AV	0.0	20.5	67.4	-46.9	EUT Vertical, Low Ch
1212.838	26.9	-6.4	1.0	50.0	3.0	0.0	Vert	AV	0.0	20.5	67.4	-46.9	EUT Vertical, High Ch
1211.855	26.9	-6.4	1.0	151.0	3.0	0.0	Horz	AV	0.0	20.5	67.4	-46.9	EUT Vertical, High Ch

RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0488	**Date:**	07/29/14		
Project:	None	**Temperature:**	23.2 °C		
Job Site:	MN05	**Humidity:**	51.3% RH		
Serial Number:	100140	**Barometric Pres.:**	1019.5 mbar	**Tested by:**	Johnathan Lee
EUT:	Emblem S-ICD				
Configuration:	1				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	Battery				
Operating Mode:	Receiving MICS: Low Channel = 402.81 MHz, High Channel = 403.51 MHz				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2014	ANSI/TIA/EIA-603-C-2004

Run #	13	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



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
807.282	16.5	8.4	1.0	312.0	3.0	0.0	Vert	QP	0.0	24.9	40.4	-15.5	EUT Horizontal, High Ch
806.683	16.5	8.4	1.0	88.0	3.0	0.0	Horz	QP	0.0	24.9	40.4	-15.5	EUT Horizontal, High Ch
806.050	16.4	8.4	1.0	80.0	3.0	0.0	Horz	QP	0.0	24.8	40.4	-15.6	EUT Horizontal, Low Ch
805.772	16.4	8.4	1.0	254.0	3.0	0.0	Vert	QP	0.0	24.8	40.4	-15.6	EUT Horizontal, Low Ch
403.677	18.4	0.8	1.0	235.0	3.0	0.0	Horz	QP	0.0	19.2	40.4	-21.2	EUT Horizontal, High Ch
402.682	18.4	0.8	3.7	315.0	3.0	0.0	Horz	QP	0.0	19.2	40.4	-21.2	EUT Horizontal, Low Ch
402.682	17.8	0.8	1.0	23.0	3.0	0.0	Vert	QP	0.0	18.6	40.4	-21.8	EUT Horizontal, Low Ch
403.675	17.3	0.8	1.0	43.0	3.0	0.0	Vert	QP	0.0	18.1	40.4	-22.3	EUT Horizontal, High Ch
1210.838	40.0	-6.5	2.0	83.0	3.0	0.0	Horz	PK	0.0	33.5	67.4	-33.9	EUT Horizontal, High Ch
1208.447	39.8	-6.5	1.0	293.0	3.0	0.0	Vert	PK	0.0	33.3	67.4	-34.1	EUT Horizontal, Low Ch
1210.297	39.7	-6.5	1.0	272.0	3.0	0.0	Horz	PK	0.0	33.2	67.4	-34.2	EUT Horizontal, Low Ch
1209.080	39.7	-6.5	1.0	6.0	3.0	0.0	Vert	PK	0.0	33.2	67.4	-34.2	EUT Horizontal, High Ch
1212.055	26.9	-6.4	1.0	6.0	3.0	0.0	Vert	AV	0.0	20.5	67.4	-46.9	EUT Horizontal, High Ch
1212.038	26.9	-6.4	2.0	83.0	3.0	0.0	Horz	AV	0.0	20.5	67.4	-46.9	EUT Horizontal, High Ch
1205.988	26.9	-6.5	1.0	272.0	3.0	0.0	Horz	AV	0.0	20.4	67.4	-47.0	EUT Horizontal, Low Ch
1205.988	26.9	-6.5	1.0	293.0	3.0	0.0	Vert	AV	0.0	20.4	67.4	-47.0	EUT Horizontal, Low Ch