



Boston Scientific Corporation
Rock Springs Point of Care (POC) Communicator
Model 6299
FCC 15.205:2013
FCC 15.207:2013
FCC 15.209:2013
Report #: BSTN0426.1



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: May 31, 2013
Boston Scientific Corporation
Rock Springs Point of Care (POC) Communicator, Model 6299

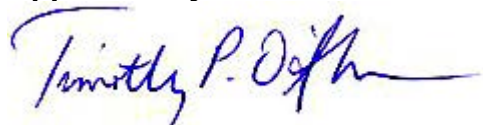
Emissions

Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.209:2013	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.209:2013	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2013	ANSI C63.10:2009	Pass
Restricted Bands of Operation	FCC 15.205:2013	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200881-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
9349 W Broadway Ave.
Brooklyn Park, MN 55445

Phone: (763) 425-2281 Fax: (763) 424-3469

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834E-1).

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

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. This Report may only be duplicated in its entirety. 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

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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

KCC / 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.

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.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>

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.

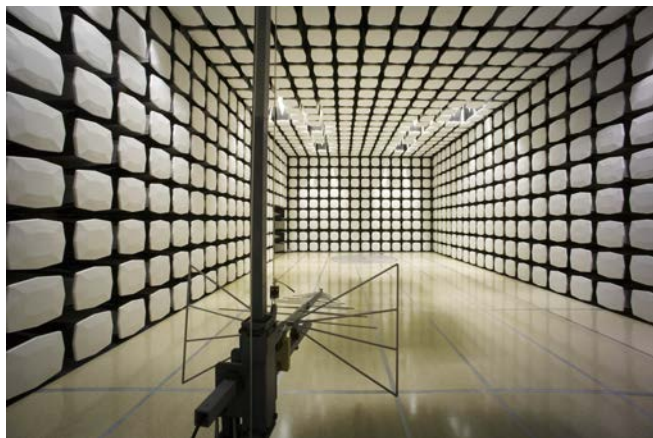
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement 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



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th 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	2834C-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 North
City, State, Zip:	St. Paul, MN 55112-5798
Test Requested By:	Larry Canady
Model:	Rock Springs Point of Care (POC) Communicator, Model 6299
First Date of Test:	May 15, 2013
Last Date of Test:	May 31, 2013
Receipt Date of Samples:	May 14, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

The POC is an externally powered device that communicates with a patient's implanted pulse generator (PG) via the inductive telemetry link. The POC transmits information collected back to a central database where it can be viewed by the physician.

Testing Objective:

To demonstrate compliance of the inductive portion of the device to FCC Part 15C intentional radiator requirements, including FCC Parts 15.209 and 15.207. The FCC Part 15.205 Restricted bands of operation are proved to be met by complying with the Frequency of Fundamental and Spurious Radiated Emissions as called out in FCC Part 15.209.

Configuration BSTN0426- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Rock Springs Point of Care (POC) Communicator	Boston Scientific Corporation	6299	0000006
Power Brick 15V	GlobTek, Inc	GTM41061-1515	N/A

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Phone Cable	No	4.3m	No	Rock Springs Point of Care (POC) Communicator	Unterminated
Phone Cable	No	4.3m	No	Rock Springs Point of Care (POC) Communicator	Unterminated
DC Power	No	1.8m	Yes	Rock Springs Point of Care (POC) Communicator	Power Brick 15V
Wand Cable	No	2.5m	No	Rock Springs Point of Care (POC) Communicator	Inductive Telemetry Wand
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	5/15/2013	AC Powerline Conducted 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	5/31/2013	Spurious Radiated 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.
3	5/31/2013	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Field Strength of Fundamental

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

Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0426 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	315 kHz
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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
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Loop	ETS Lindgren	6502	AOB	2/20/2013	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

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal planes, the EUT and/or associated antenna is positioned in 3 orthogonal planes (per ANSI C63.4). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

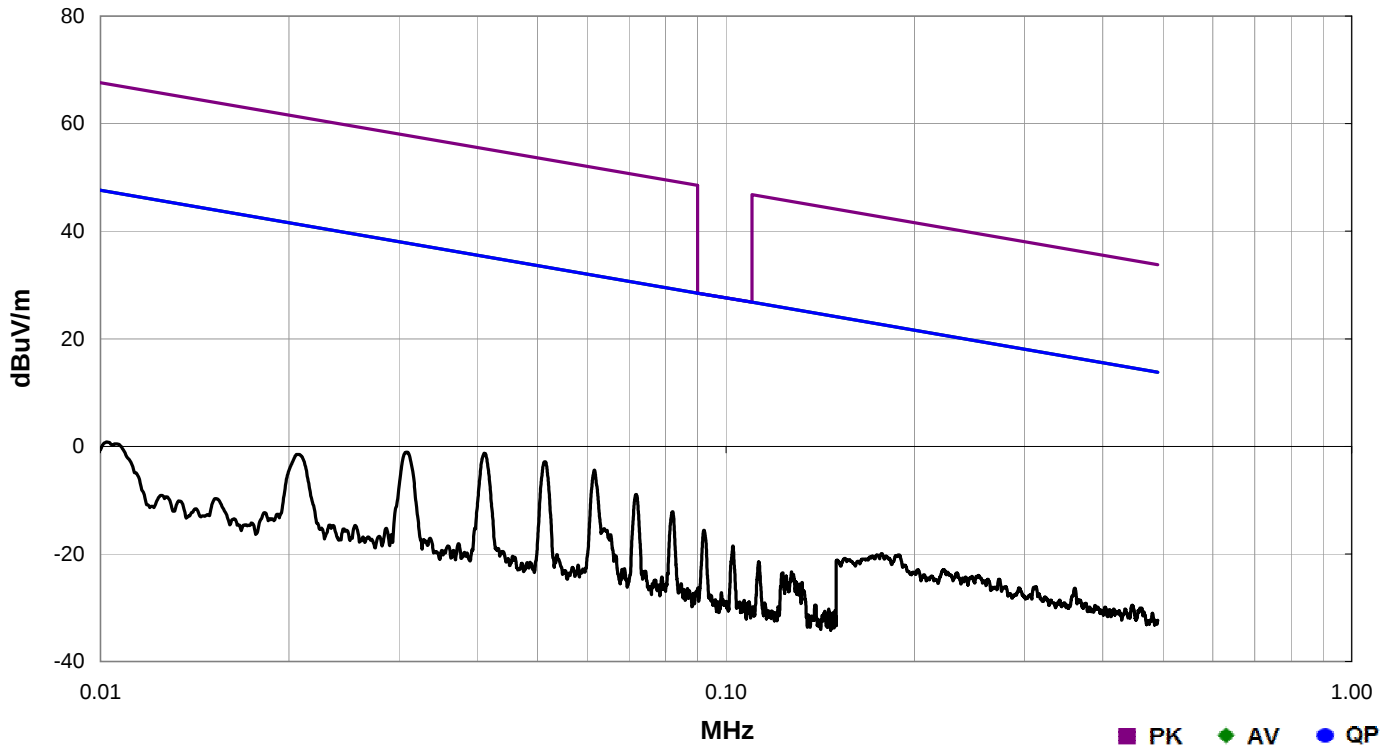
As outlined in 15.209(e), and associated reference to 15.31, measurements may be performed at a distance closer than specified as was the case in this testing. In this case the limit for the defined distance is outlined on the data sheet. For transmitters operating below 10 MHz, the data is adjusted by using the square of the inverse linear distance extrapolation factor of 40dB/decade.

Field Strength of Fundamental

Work Order:	BSTN0426	Date:	05/31/13	
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	Tested by: Trevor Buls
EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.			
Deviations:	None			
Comments:	None			

Test Specifications		Test Method	
FCC 15.209:2013		ANSI C63.10:2009	

Run #	1	Test Distance (m)	3	Antenna Height(s)	1 (m)	Results	Evaluation
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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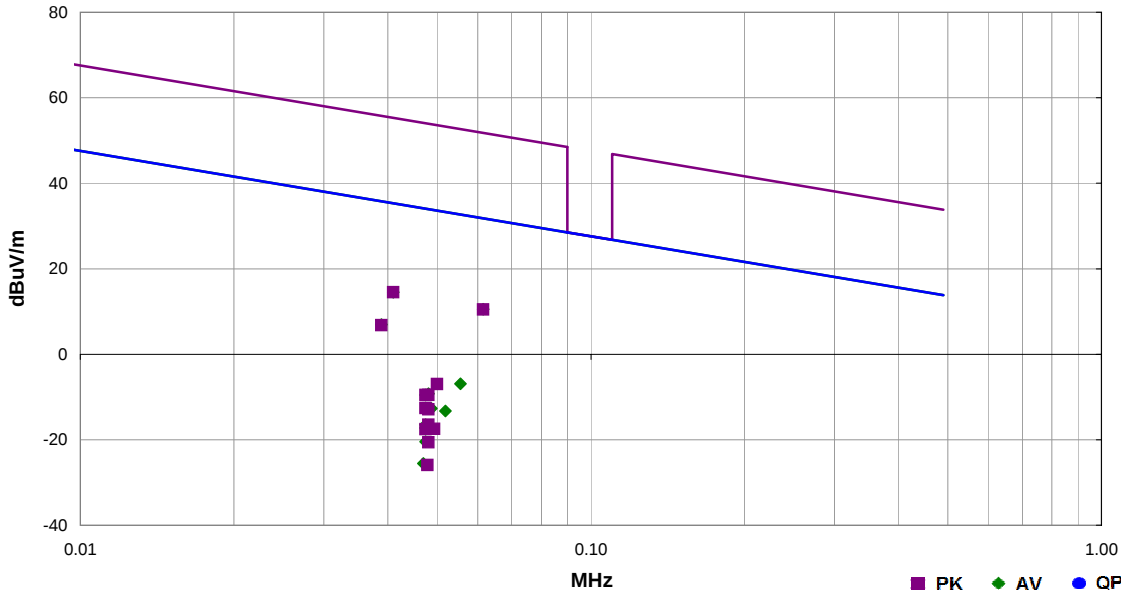
Field Strength of Fundamental

PSA-ESCI 2012.12.14
EmiR5 2013.05.23

Work Order:	BSTN0426	Date:	05/31/13	<i>Trevor Buls</i>
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	
		Tested by:		Trevor Buls
EUT: Rock Springs Point of Care (POC) Communicator, Model 6299				
Configuration: 1				
Customer: Boston Scientific Corporation				
Attendees: None				
EUT Power: 110VAC/60Hz				
Operating Mode: Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.				
Deviations: None				
Comments: Maximized on the highest part of the transmit signal. Data rates for SEQ, MSG families, modes 'Ones' and 'One' (see comments)				

Test Specifications	Test Method
FCC 15.209:2013	ANSI C63.10:2009

Run #	2	Test Distance (m)	3	Antenna Height(s)	1m	Results	Pass
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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
0.041	81.5	13.0	1.0	68.0	3.0	0.0	Par to EUT	AV	-80.0	14.5	35.3	-20.8	EUT Vertical, Mode: "ones" msg
0.062	78.4	12.2	1.0	68.0	3.0	0.0	Par to EUT	AV	-80.0	10.6	31.8	-21.2	EUT Vertical, Mode: "ones" msg
0.039	73.7	13.2	1.0	68.0	3.0	0.0	Par to EUT	AV	-80.0	6.9	35.8	-28.9	EUT Vertical, Mode: "ones" seq
0.056	60.9	12.2	1.0	68.0	3.0	0.0	Par to EUT	AV	-80.0	-6.9	32.7	-39.6	EUT Vertical, Mode: "one" seq
0.041	81.5	13.0	1.0	68.0	3.0	0.0	Par to EUT	PK	-80.0	14.5	55.3	-40.8	EUT Vertical, Mode: "ones" msg
0.062	78.3	12.2	1.0	68.0	3.0	0.0	Par to EUT	PK	-80.0	10.5	51.8	-41.3	EUT Vertical, Mode: "ones" msg
0.048	58.4	12.4	1.0	75.0	3.0	0.0	Par to EUT	AV	-80.0	-9.2	33.9	-43.2	EUT Vertical, Mode: "one" msg
0.047	58.0	12.4	1.0	337.0	3.0	0.0	Par to EUT	AV	-80.0	-9.6	34.1	-43.6	EUT on Side, Mode: "one" msg
0.049	55.0	12.3	1.0	154.0	3.0	0.0	Perp to GND	AV	-80.0	-12.7	33.8	-46.5	EUT on Side, Mode: "one" msg
0.052	54.5	12.2	1.0	346.0	3.0	0.0	Perp to GND	AV	-80.0	-13.3	33.3	-46.6	EUT Vertical, Mode: "one" msg
0.039	73.6	13.2	1.0	68.0	3.0	0.0	Par to EUT	PK	-80.0	6.8	55.8	-49.0	EUT Vertical, Mode: "ones" seq
0.047	51.1	12.4	1.0	236.0	3.0	0.0	Par to GND	AV	-80.0	-16.5	34.1	-50.5	EUT on Side, Mode: "one" msg
0.049	50.3	12.3	1.0	127.0	3.0	0.0	Par to GND	AV	-80.0	-17.4	33.8	-51.2	EUT Horizontal, Mode: "one" msg
0.047	50.3	12.4	1.0	95.0	3.0	0.0	Par to GND	AV	-80.0	-17.3	34.1	-51.3	EUT Vertical, Mode: "one" msg
0.047	47.1	12.4	1.0	202.0	3.0	0.0	Par to EUT	AV	-80.0	-20.5	34.1	-54.5	EUT Horizontal, Mode: "one" msg
0.047	42.0	12.5	1.0	162.0	3.0	0.0	Perp to GND	AV	-80.0	-25.5	34.1	-59.7	EUT Horizontal, Mode: "one" msg
0.050	60.8	12.2	1.0	68.0	3.0	0.0	Par to EUT	PK	-80.0	-7.0	53.6	-60.6	EUT Vertical, Mode: "one" seq
0.048	58.1	12.4	1.0	75.0	3.0	0.0	Par to EUT	PK	-80.0	-9.5	53.9	-63.5	EUT Vertical, Mode: "one" msg
0.047	58.0	12.4	1.0	337.0	3.0	0.0	Par to EUT	PK	-80.0	-9.6	54.1	-63.6	EUT on Side, Mode: "one" msg
0.047	55.0	12.4	1.0	154.0	3.0	0.0	Perp to GND	PK	-80.0	-12.6	54.1	-66.6	EUT on Side, Mode: "one" msg
0.048	54.7	12.4	1.0	346.0	3.0	0.0	Perp to GND	PK	-80.0	-12.9	53.9	-66.9	EUT Horizontal, Mode: "one" msg
0.048	51.1	12.4	1.0	236.0	3.0	0.0	Par to GND	PK	-80.0	-16.5	53.9	-70.5	EUT on Side, Mode: "one" msg
0.049	50.3	12.3	1.0	95.0	3.0	0.0	Par to GND	PK	-80.0	-17.4	53.7	-71.2	EUT Vertical, Mode: "one" msg
0.047	50.0	12.4	1.0	127.0	3.0	0.0	Par to GND	PK	-80.0	-17.6	54.1	-71.6	EUT Horizontal, Mode: "one" msg
0.048	47.0	12.4	1.0	202.0	3.0	0.0	Par to EUT	PK	-80.0	-20.6	53.9	-74.6	EUT Horizontal, Mode: "one" msg
0.048	41.7	12.4	1.0	162.0	3.0	0.0	Perp to GND	PK	-80.0	-25.9	54.0	-79.9	EUT Horizontal, Mode: "one" msg

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

Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0426 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	1000 MHz
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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
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Loop	ETS Lindgren	6502	AOB	2/20/2013	24 mo
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

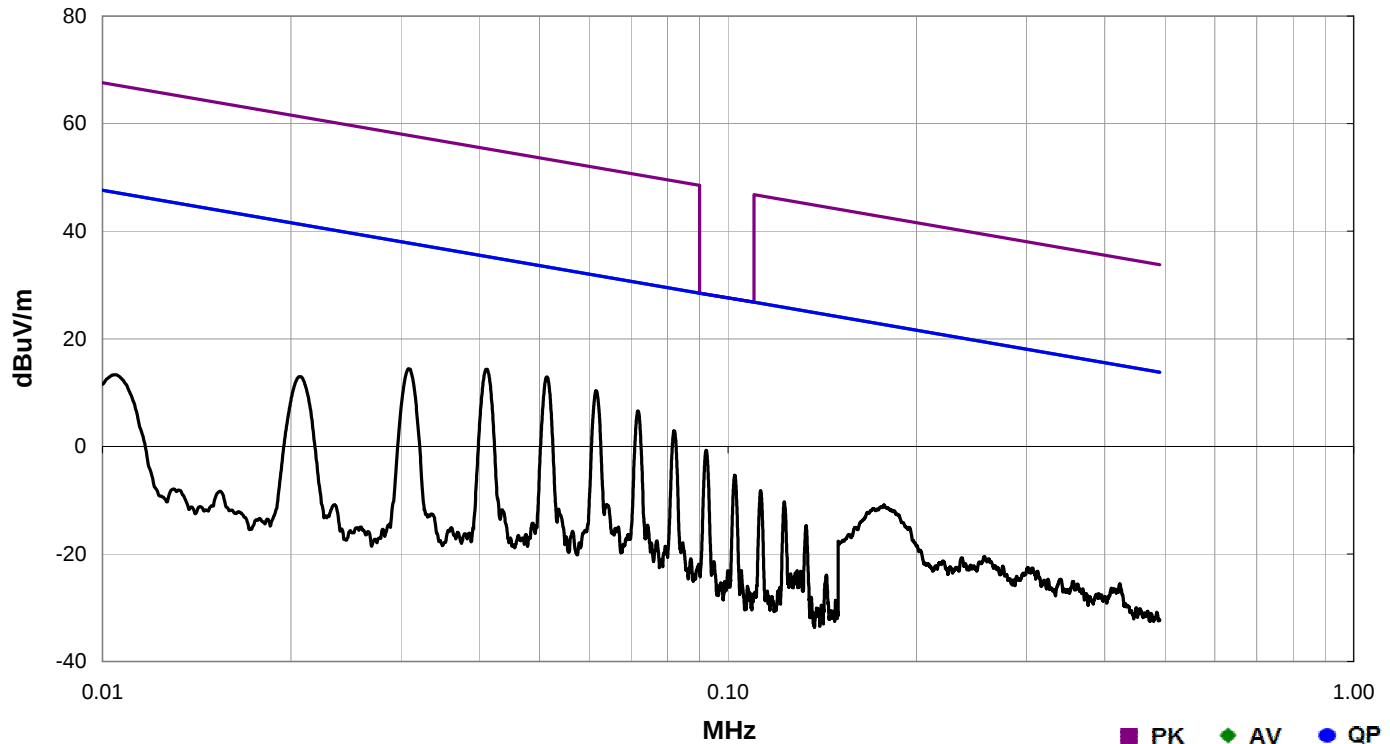
The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal planes, the EUT and/or associated antenna is positioned in 3 orthogonal planes (per ANSI C63.4). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

As outlined in 15.209(e), and associated reference to 15.31, measurements may be performed at a distance closer than specified as was the case in this testing. In this case the limit for the defined distance is outlined on the data sheet. For transmitters operating below 10 MHz, the data is adjusted by using the square of the inverse linear distance extrapolation factor of 40dB/decade.

Work Order:	BSTN0426	Date:	05/31/13	
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	Tested by: Trevor Buls
EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.			
Deviations:	None			
Comments:	Maximized on the highest part of the transmit signal. Data rates for SEQ, MSG families, modes 'Ones' and 'One' (see comments).			

Test Specifications	Test Method
FCC 15.209:2013	ANSI C63.10:2009

Run #	4	Test Distance (m)	3	Antenna Height(s)	1 (m)	Results	Evaluation
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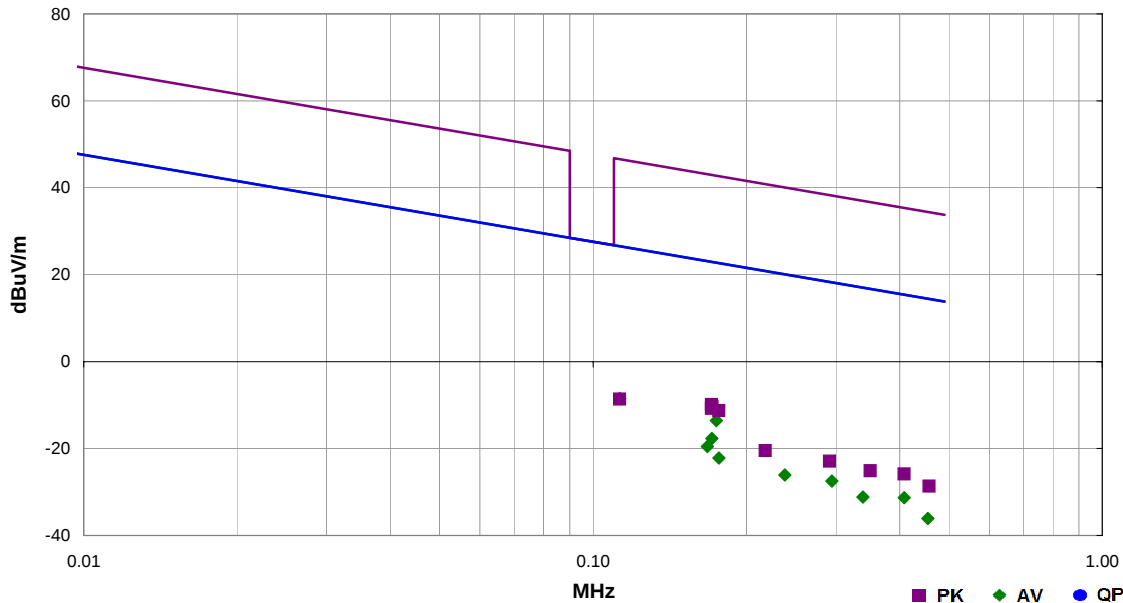


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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Work Order:	BSTN0426	Date:	05/31/13	<i>Trevor Buls</i>
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	
Tested by: Trevor Buls				
EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.			
Deviations:	None			
Comments:	Maximized on the highest part of the transmit signal. Data rates for SEQ, MSG families, modes 'Ones' and 'One' (see comments).			

Test Specifications	FCC 15.209:2013	Test Method	ANSI C63.10:2009
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Run #	4	Test Distance (m)	3	Antenna Height(s)	1m	Results	Pass
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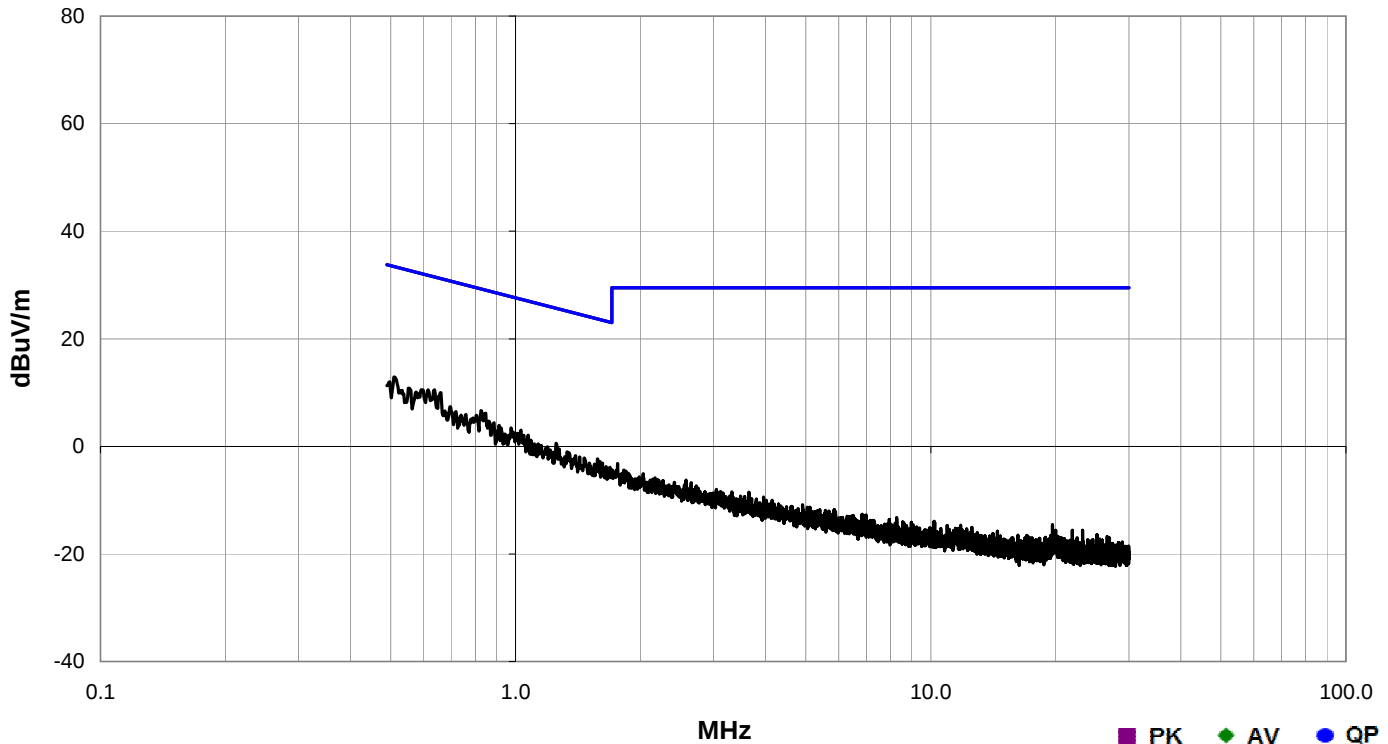
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.113	60.1	11.4	1.0	84.0	3.0	0.0	Par to EUT	AV	-80.0	-8.5	26.6	-35.1	EUT Vertical, Mode: "ones" msg
0.175	55.1	11.3	1.0	82.0	3.0	0.0	Par to EUT	AV	-80.0	-13.6	22.8	-36.4	EUT Vertical, Mode: "ones" msg
0.171	51.0	11.3	1.0	82.0	3.0	0.0	Par to EUT	AV	-80.0	-17.7	22.9	-40.6	EUT Vertical, Mode: "ones" seq
0.168	49.1	11.3	1.0	82.0	3.0	0.0	Par to EUT	AV	-80.0	-19.6	23.1	-42.7	EUT Vertical, Mode: "one" seq
0.177	46.5	11.3	1.0	82.0	3.0	0.0	Par to EUT	AV	-80.0	-22.2	22.7	-44.9	EUT Vertical, Mode: "one" msg
0.295	41.2	11.3	1.0	77.0	3.0	0.0	Par to EUT	AV	-80.0	-27.5	18.2	-45.7	EUT Vertical, Mode: "ones" msg
0.238	42.6	11.3	1.0	75.0	3.0	0.0	Par to EUT	AV	-80.0	-26.1	20.1	-46.2	EUT Vertical, Mode: "ones" msg
0.408	37.4	11.3	1.0	248.0	3.0	0.0	Par to EUT	AV	-80.0	-31.3	15.4	-46.7	EUT Vertical, Mode: "ones" msg
0.339	37.5	11.3	1.0	265.0	3.0	0.0	Par to EUT	AV	-80.0	-31.2	17.0	-48.2	EUT Vertical, Mode: "ones" msg
0.454	32.5	11.4	1.0	237.0	3.0	0.0	Par to EUT	AV	-80.0	-36.1	14.5	-50.5	EUT Vertical, Mode: "ones" msg
0.171	58.8	11.3	1.0	82.0	3.0	0.0	Par to EUT	PK	-80.0	-9.9	43.0	-52.8	EUT Vertical, Mode: "ones" seq
0.171	58.3	11.3	1.0	82.0	3.0	0.0	Par to EUT	PK	-80.0	-10.4	42.9	-53.3	EUT Vertical, Mode: "one" seq
0.171	57.9	11.3	1.0	82.0	3.0	0.0	Par to EUT	PK	-80.0	-10.8	43.0	-53.7	EUT Vertical, Mode: "ones" msg
0.177	57.4	11.3	1.0	82.0	3.0	0.0	Par to EUT	PK	-80.0	-11.3	42.7	-53.9	EUT Vertical, Mode: "one" msg
0.113	60.0	11.4	1.0	84.0	3.0	0.0	Par to EUT	PK	-80.0	-8.6	46.6	-55.2	EUT Vertical, Mode: "ones" msg
0.292	45.8	11.3	1.0	77.0	3.0	0.0	Par to EUT	PK	-80.0	-22.9	38.3	-61.2	EUT Vertical, Mode: "ones" msg
0.408	42.8	11.3	1.0	248.0	3.0	0.0	Par to EUT	PK	-80.0	-25.9	35.4	-61.3	EUT Vertical, Mode: "ones" msg
0.218	48.2	11.3	1.0	75.0	3.0	0.0	Par to EUT	PK	-80.0	-20.5	40.8	-61.3	EUT Vertical, Mode: "ones" msg
0.351	43.6	11.3	1.0	265.0	3.0	0.0	Par to EUT	PK	-80.0	-25.1	36.7	-61.8	EUT Vertical, Mode: "ones" msg
0.457	39.9	11.4	1.0	237.0	3.0	0.0	Par to EUT	PK	-80.0	-28.7	34.4	-63.1	EUT Vertical, Mode: "ones" msg

Spurious Radiated Emissions

Work Order:	BSTN0426	Date:	05/31/13	
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	Tested by: Trevor Buls
EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.			
Deviations:	None			
Comments:	Maximized on the highest part of the transmit signal. Data rates for SEQ, MSG families, modes 'Ones' and 'One' (see comments).			

Test Specifications	Test Method
FCC 15.209:2013	ANSI C63.10:2009

Run #	5	Test Distance (m)	3	Antenna Height(s)	1 (m)	Results	Evaluation
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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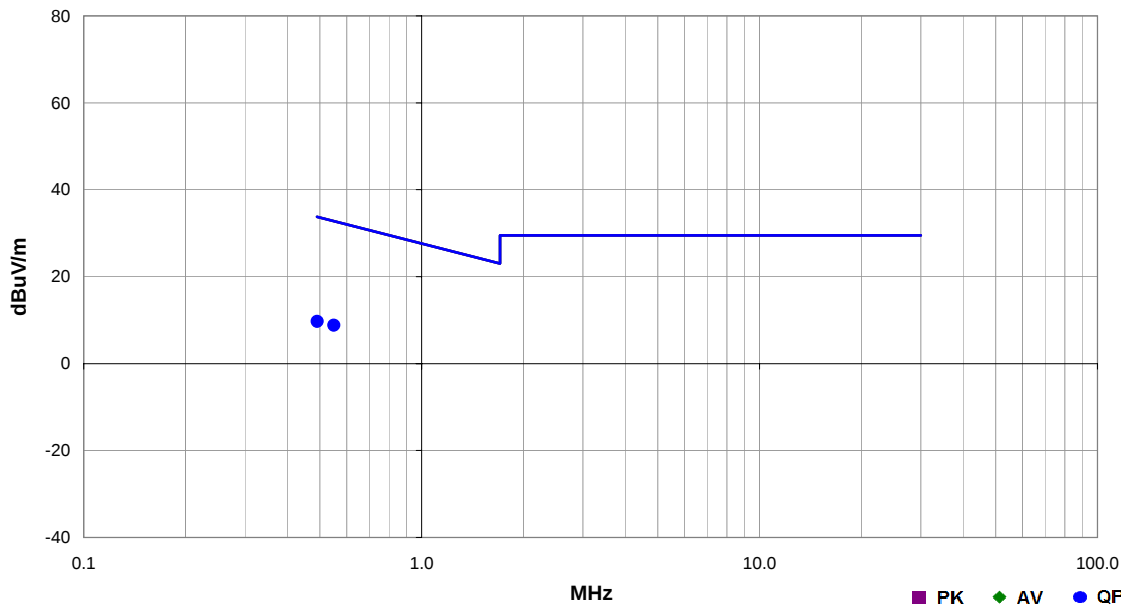
Spurious Radiated Emissions

PSA-ESCI 2012.12.14
EmiR5 2013.05.23

Work Order:	BSTN0426	Date:	05/31/13	<i>Trevor Buls</i>
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	57.9% RH	
Serial Number:	6	Barometric Pres.:	1000.2 mbar	
		Tested by:	Trevor Buls	
EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Boston Scientific EDVT# : Mode 2 PG link On in transmit mode.			
Deviations:	None			
Comments:	Maximized on the highest part of the transmit signal. Data rates for SEQ, MSG families, modes 'Ones' and 'One' (see comments).			

Test Specifications	FCC 15.209:2013	Test Method	ANSI C63.10:2009
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Run #	5	Test Distance (m)	3	Antenna Height(s)	1m	Results	Pass
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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
0.551	37.3	11.5	1.0	65.0	3.0	0.0	Par to EUT	QP	-40.0	8.8	32.8	-24.0	EUT Vertical, Mode: "ones" msg
0.492	38.2	11.5	1.0	260.0	3.0	0.0	Par to EUT	QP	-40.0	9.7	33.8	-24.1	EUT Vertical, Mode: "ones" msg

AC POWERLINE CONDUCTED EMISSIONS

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 C63.10-2009.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARG	04/01/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	05/31/2012	24 mo
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	08/15/2012	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	01/17/2013	12 mo
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	05/30/2012	12 mo

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.94 dB	-2.94 dB

CONFIGURATIONS INVESTIGATED

BSTN0426-1

MODES INVESTIGATED

Boston Scientific EDVT# : Mode 2 PG Family = MSG

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299	Work Order:	BSTN0426
Serial Number:	6	Date:	05/15/2013
Customer:	Boston Scientific Corporation	Temperature:	23.8°C
Attendees:	None	Relative Humidity:	34.5%
Customer Project:	None	Bar. Pressure:	1011.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0426-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	1	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

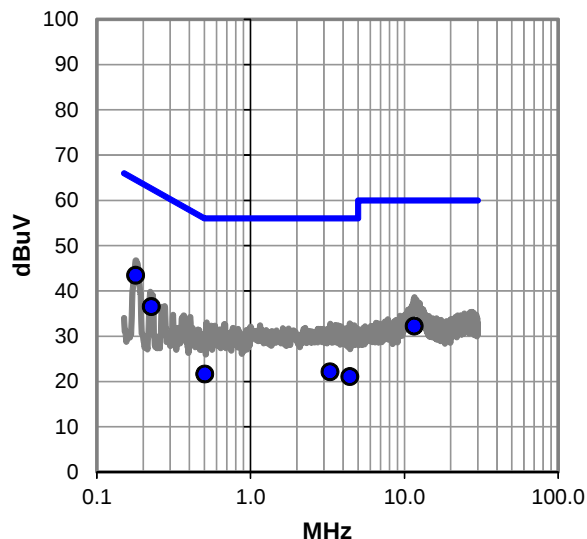
EUT OPERATING MODES

Boston Scientific EDVT# : Mode 2 PG Family = MSG

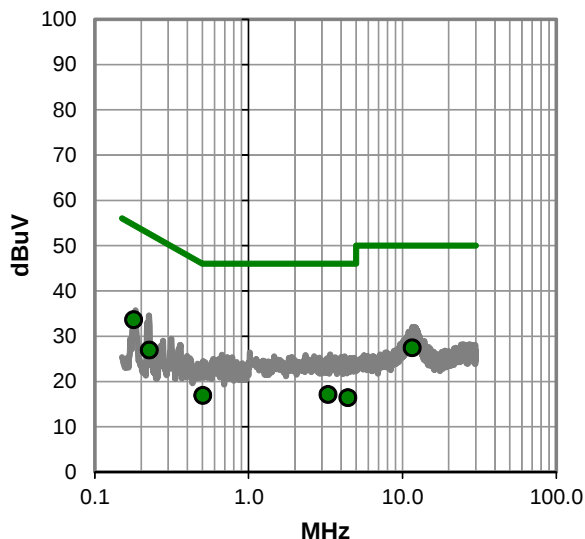
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #1

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.179	23.2	20.2	43.4	64.5	-21.1
0.227	16.3	20.2	36.5	62.6	-26.1
11.620	11.4	20.8	32.2	60.0	-27.8
3.284	1.8	20.3	22.1	56.0	-33.9
0.505	1.4	20.2	21.6	56.0	-34.4
4.424	0.7	20.4	21.1	56.0	-34.9

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.179	13.4	20.2	33.6	54.5	-20.9
11.620	6.6	20.8	27.4	50.0	-22.6
0.227	6.7	20.2	26.9	52.6	-25.7
3.284	-3.2	20.3	17.1	46.0	-28.9
0.505	-3.3	20.2	16.9	46.0	-29.1
4.424	-4.0	20.4	16.4	46.0	-29.6

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Rock Springs Point of Care (POC) Communicator, Model 6299	Work Order:	BSTN0426
Serial Number:	6	Date:	05/15/2013
Customer:	Boston Scientific Corporation	Temperature:	23.8°C
Attendees:	None	Relative Humidity:	34.5%
Customer Project:	None	Bar. Pressure:	1011.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0426-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	2	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

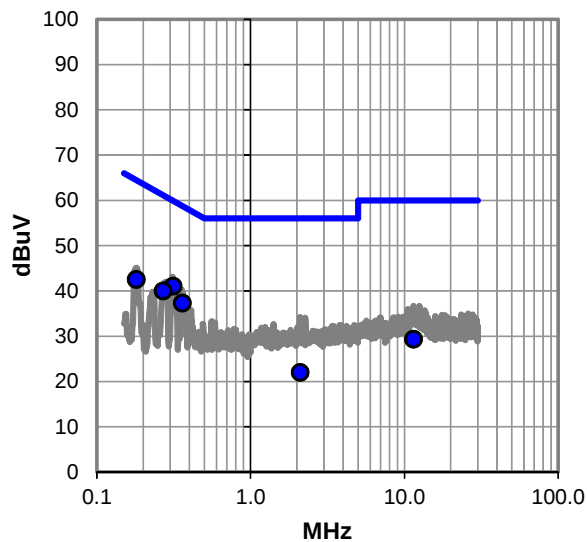
EUT OPERATING MODES

Boston Scientific EDVT# : Mode 2 PG Family = MSG

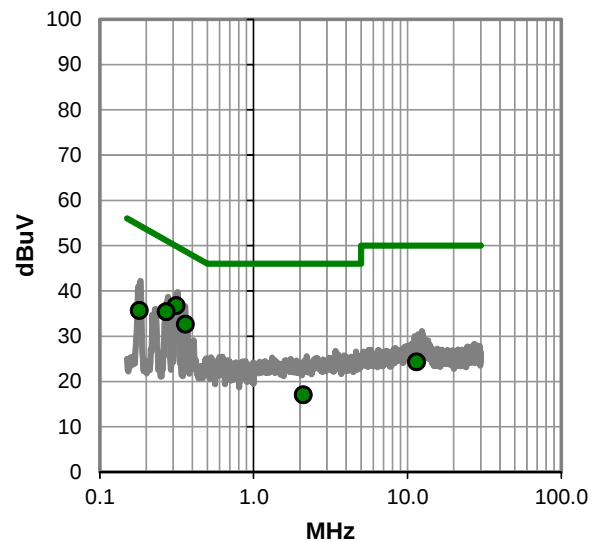
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #2

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.314	20.8	20.2	41.0	59.9	-18.9
0.271	19.8	20.2	40.0	61.1	-21.1
0.360	17.1	20.2	37.3	58.7	-21.4
0.181	22.3	20.2	42.5	64.4	-21.9
11.482	8.5	20.8	29.3	60.0	-30.7
2.104	1.7	20.3	22.0	56.0	-34.0

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.314	16.5	20.2	36.7	49.9	-13.2
0.271	15.2	20.2	35.4	51.1	-15.7
0.360	12.4	20.2	32.6	48.7	-16.1
0.181	15.5	20.2	35.7	54.4	-18.7
11.482	3.5	20.8	24.3	50.0	-25.7
2.104	-3.3	20.3	17.0	46.0	-29.0

CONCLUSION

Pass



Tested By