

Boston Scientific Corporation

Programmer 3120

Report No. BSTN0245

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report

Certificate of Test
Last Date of Test: April 22, 2009
Boston Scientific Corporation
Model: Programmer 3120

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2009	ANSI C63.4:2003	Pass
Field Strength of Harmonics	FCC 15.249:2009	ANSI C63.4:2003	Pass

Modifications made to the product
See the Modifications section of this report

Test Facility

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

Northwest EMC, Inc.
41 Tesla Ave.
Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

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

Approved By:



Don Facteau, IS Manager



NVLAP Lab Code: 200676-0

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 Number	Description	Date	Page Number
00	None		

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2*)



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017). License No.SL2-IN-E-1017.



GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



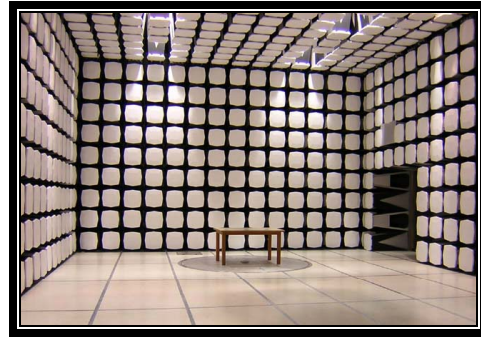
KCC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

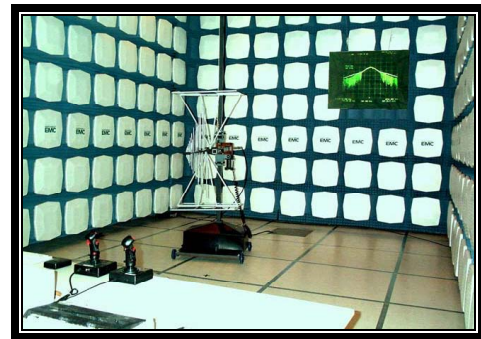
For details on the Scopes of our Accreditations, please visit:

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



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Avenue North
City, State, Zip:	St. Paul, MN 55112-5798
Test Requested By:	Pete Musto
Model:	Programmer 3120
First Date of Test:	April 22, 2009
Last Date of Test:	April 22, 2009
Receipt Date of Samples:	April 22, 2009
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

Programmer

Testing Objective:

These tests were selected to satisfy the EMC requirements requested by the client.

EUT Photo

CONFIGURATION 1 BSTN0245

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Programmer	Boston Scientific	3120	062654
Antenna	Boston Scientific	357035-300	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
USB Keyboard	Dell Corp.	SK-8125	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	Yes	2.4m	No	Programmer	AC Mains
USB	No	1.8m	No	USB Keyboard	Programmer
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	4/22/2009	Field Strength of Fundamental	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	4/22/2009	Field Strength of Harmonics	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was complete.

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.

MODES OF OPERATION

Transmitting at 927.5 MHz
 Transmitting at 916.5 MHz
 Transmitting at 902.5 MHz

MODE USED FOR FINAL DATA

Transmitting at 902.5 MHz
 Transmitting at 916.5 MHz
 Transmitting at 927.5 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	902.5 MHz	Stop Frequency	927.5 MHz
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CLOCKS AND OSCILLATORS

902.5 MHz, 916.5 MHz, 927.5 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Biconilog	EMCO	3142	AXJ	2/25/2008	24
OC10 Cables	None	10kHz-1GHz RE Cables	OCH	3/2/2009	13
Spectrum Analyzer	Agilent	E4446A	AAQ	12/20/2008	24

MEASUREMENT BANDWIDTHS

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

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

EUT: Programmer 3120	Work Order: BSTN0245
Serial Number: 062654	Date: 04/22/09
Customer: Boston Scientific Corporation	Temperature: 22.22
Attendees: Holly	Humidity: 45%
Project: None	Barometric Pres.: 1014.9 mb
Tested by: Jaemi Suh	Power: 120VAC/60Hz
	Job Site: OC10

TEST SPECIFICATIONS

FCC 15.249:2009	Test Method
	ANSI C63.4:2003

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Measured at X and Y axis.

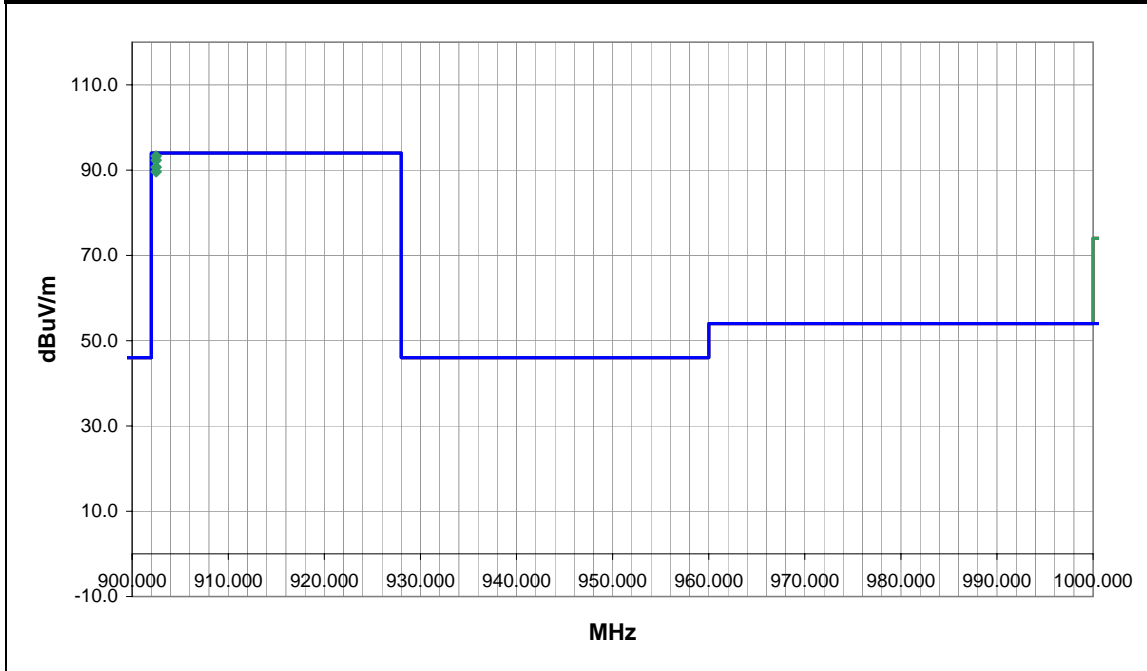
EUT OPERATING MODES

Transmitting at 902.5 MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
902.501	61.2	32.1	268.0	1.6	3.0	0.0	V-Bilog	QP	0.0	93.3	94.0	-0.7	X-Axis
902.500	60.2	32.1	300.0	1.6	3.0	0.0	V-Bilog	QP	0.0	92.3	94.0	-1.7	Y-Axis
902.500	58.6	32.1	191.0	1.0	3.0	0.0	H-Bilog	QP	0.0	90.7	94.0	-3.3	Y-Axis
902.500	57.5	32.1	182.0	1.5	3.0	0.0	H-Bilog	QP	0.0	89.6	94.0	-4.4	X-Axis

EUT: Programmer 3120	Work Order: BSTN0245
Serial Number: 062654	Date: 04/22/09
Customer: Boston Scientific Corporation	Temperature: 22.22
Attendees: Holly	Humidity: 45%
Project: None	Barometric Pres.: 1014.9 mb
Tested by: Jaemi Suh	Power: 120VAC/60Hz
	Job Site: OC10

TEST SPECIFICATIONS

FCC 15.249:2009	Test Method
	ANSI C63.4:2003

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Measured at X and Y axis.

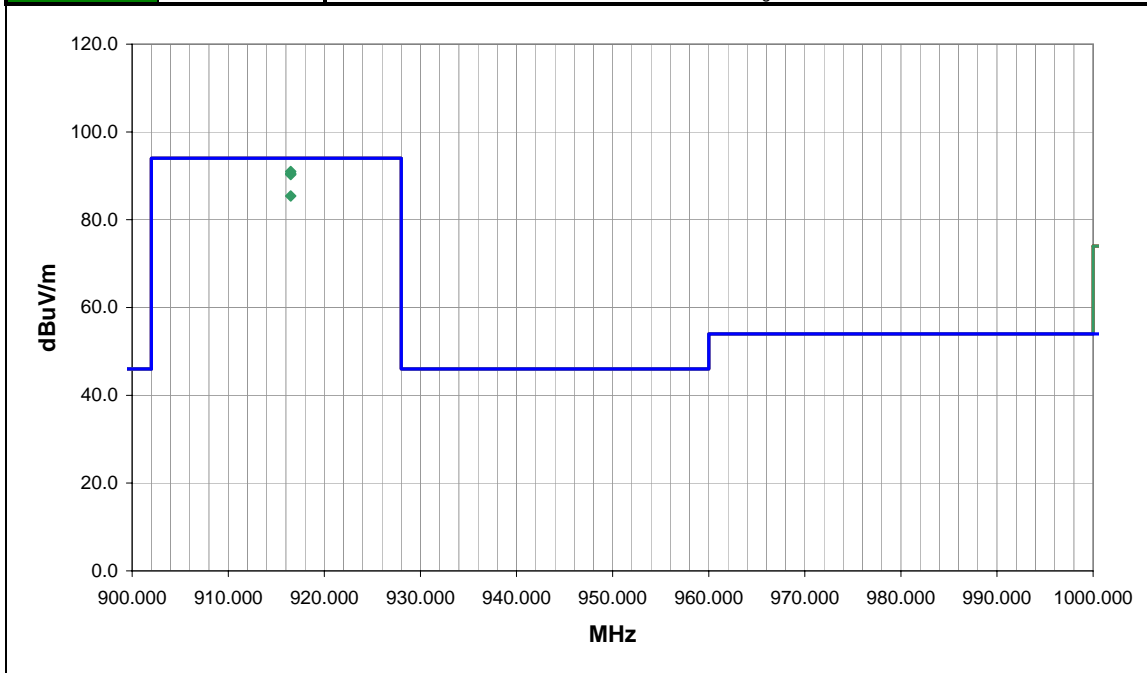
EUT OPERATING MODES

Transmitting at 916.5 MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
916.495	58.8	32.2	183.0	1.5	3.0	0.0	H-Bilog	QP	0.0	91.0	94.0	-3.0	X-Axis
916.495	58.3	32.2	56.0	1.0	3.0	0.0	H-Bilog	QP	0.0	90.5	94.0	-3.5	Y-Axis
916.495	58.1	32.2	265.0	1.0	3.0	0.0	V-Bilog	QP	0.0	90.3	94.0	-3.7	Y-Axis
916.495	53.2	32.2	54.0	1.0	3.0	0.0	V-Bilog	QP	0.0	85.4	94.0	-8.6	X-Axis

EUT:	Programmer 3120	Work Order:	BSTN0245
Serial Number:	062654	Date:	04/22/09
Customer:	Boston Scientific Corporation	Temperature:	22.22
Attendees:	Holly	Humidity:	45%
Project:	None	Barometric Pres.:	1014.9 mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC10

TEST SPECIFICATIONS	Test Method
FCC 15.249:2009	ANSI C63.4:2003

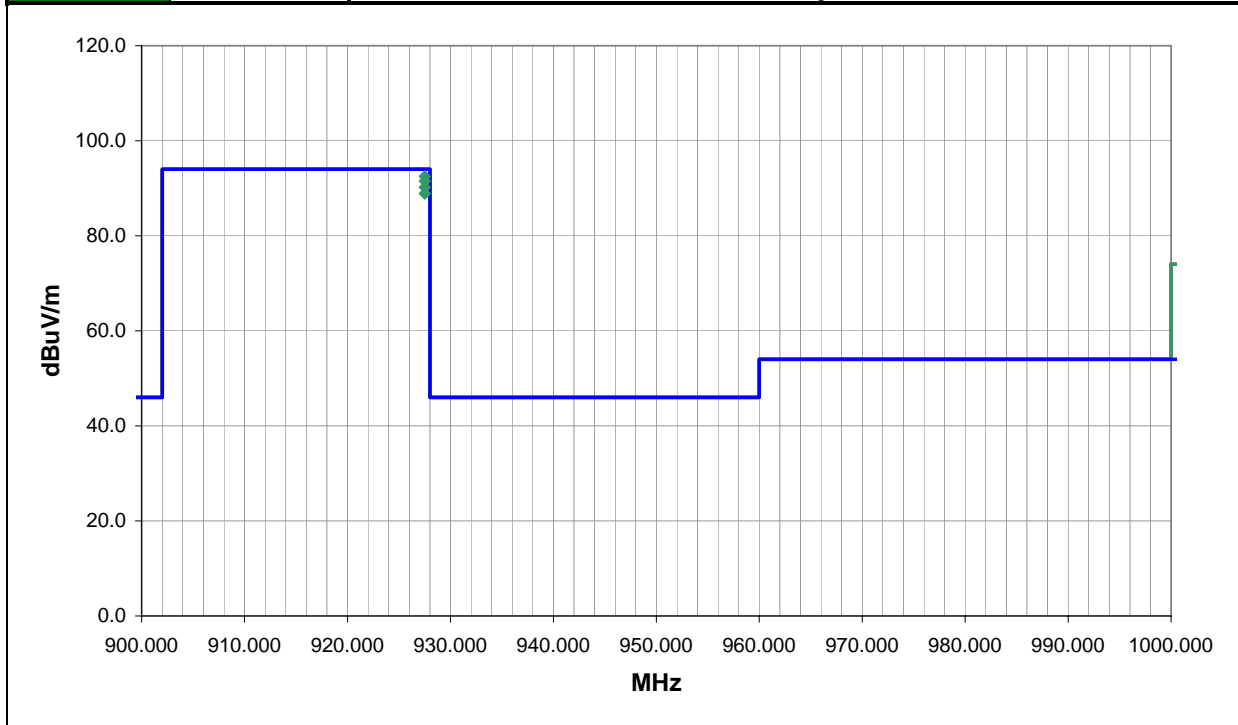
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Measured at X and Y axis.

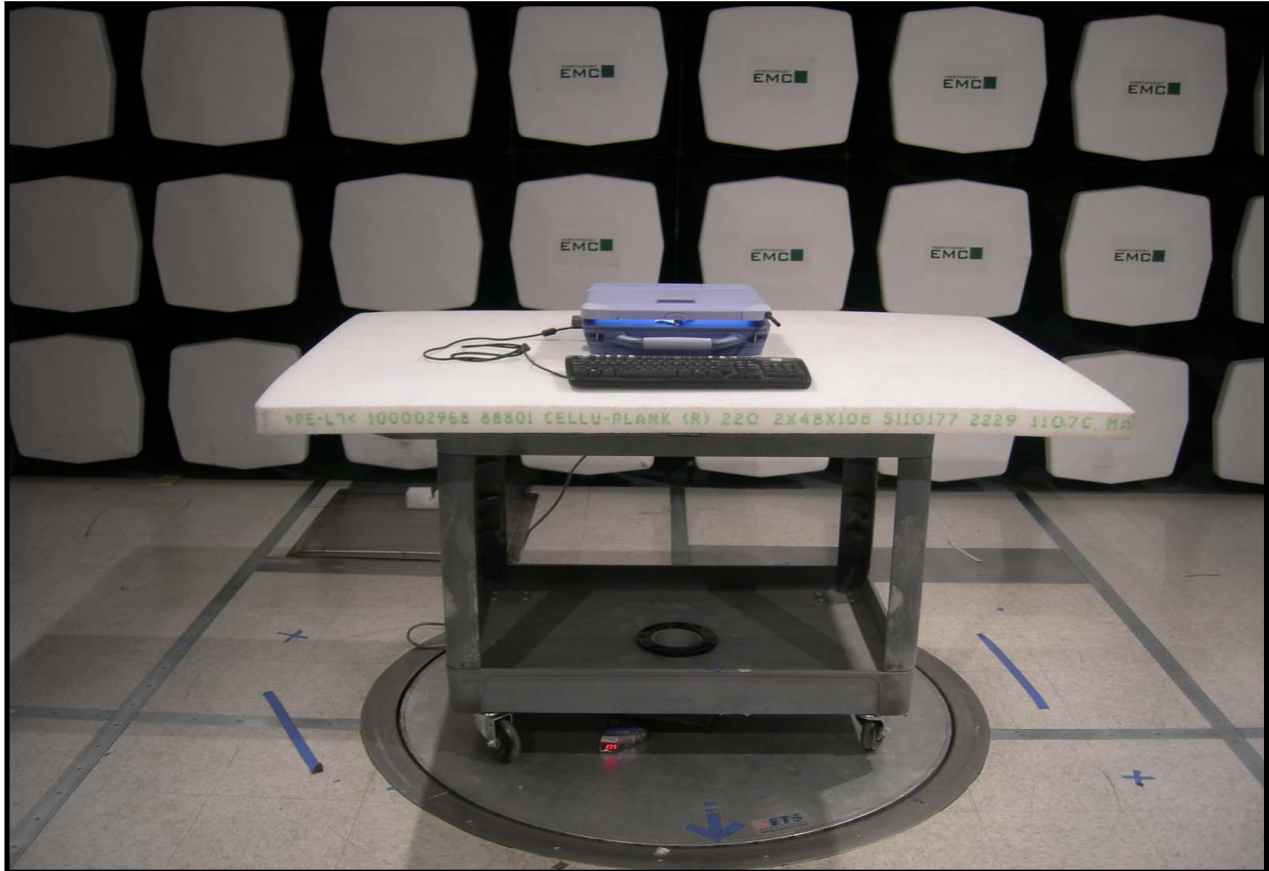
EUT OPERATING MODES
Transmitting at 927.5 MHz

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
927.510	60.3	32.2	252.0	1.5	3.0	0.0	V-Bilog	QP	0.0	92.5	94.0	-1.5
927.510	59.3	32.2	229.0	1.0	3.0	0.0	V-Bilog	QP	0.0	91.5	94.0	-2.5
927.510	58.0	32.2	187.0	1.5	3.0	0.0	H-Bilog	QP	0.0	90.2	94.0	-3.8
927.510	56.7	32.2	45.0	1.0	3.0	0.0	H-Bilog	QP	0.0	88.9	94.0	-5.1







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.

MODES OF OPERATION

Transmitting at 902.5 MHz
 Transmitting at 916.5 MHz
 Transmitting at 927.5 MHz

MODE USED FOR FINAL DATA

Transmitting at 902.5 MHz
 Transmitting at 916.5 MHz
 Transmitting at 927.5 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	1 GHz	Stop Frequency	8 GHz
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CLOCKS AND OSCILLATORS

902.5 Mhz, 916.5 MHz, 927.5 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	2/27/2009	13
Antenna, Horn	ETS	3117	AHQ	7/18/2008	24
OC10 Cables	None	1-8GHz RE Cables	OCJ	2/27/2009	13
Spectrum Analyzer	Agilent	E4446A	AAQ	12/20/2008	24

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

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT:	Programmer 3120	Work Order:	BSTN0245
Serial Number:	062654	Date:	04/22/09
Customer:	Boston Scientific Corporation	Temperature:	22.22
Attendees:	Holly	Humidity:	45%
Project:	None	Barometric Pres.:	1014.9 mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC10

TEST SPECIFICATIONS	Test Method
FCC 15.249:2009	ANSI C63.4:2003

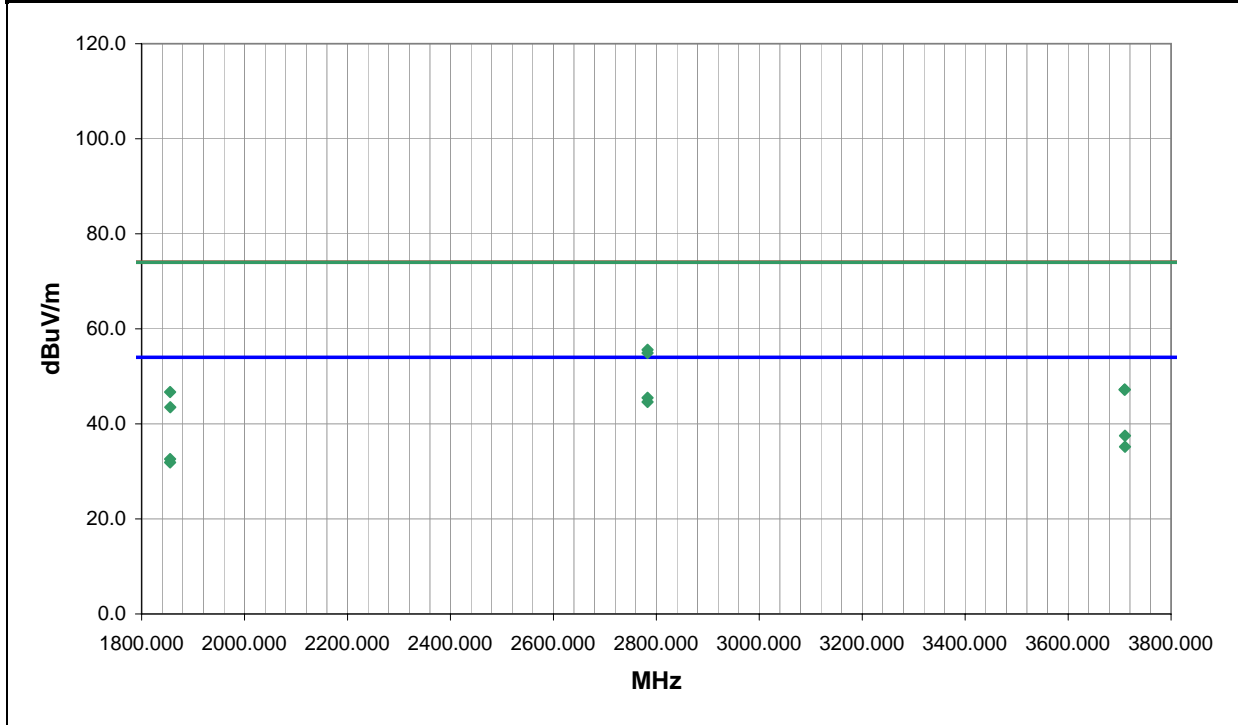
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Y-Axis

EUT OPERATING MODES
Transmitting at 927.5 MHz

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2782.907	39.7	5.8	61.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.5	54.0	-8.5
2782.901	38.8	5.8	359.0	1.2	3.0	0.0	H-Horn	AV	0.0	44.6	54.0	-9.4
3710.453	28.3	9.2	1.0	1.2	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5
2782.911	49.8	5.8	61.0	1.2	3.0	0.0	V-Horn	PK	0.0	55.6	74.0	-18.4
3710.498	26.0	9.2	184.0	1.8	3.0	0.0	H-Horn	AV	0.0	35.2	54.0	-18.8
2782.847	49.1	5.8	359.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1
1855.248	29.3	3.3	42.0	2.6	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4
1855.214	28.6	3.3	359.0	1.6	3.0	0.0	V-Horn	AV	0.0	31.9	54.0	-22.1
3709.634	38.0	9.2	184.0	1.8	3.0	0.0	H-Horn	PK	0.0	47.2	74.0	-26.8
3710.286	38.0	9.2	1.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8
1855.381	43.4	3.3	42.0	2.6	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3
1855.640	40.2	3.3	359.0	1.6	3.0	0.0	V-Horn	PK	0.0	43.5	74.0	-30.5

EUT:	Programmer 3120	Work Order:	BSTN0245
Serial Number:	062654	Date:	04/22/09
Customer:	Boston Scientific Corporation	Temperature:	22.22
Attendees:	Holly	Humidity:	45%
Project:	None	Barometric Pres.:	1014.9 mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC10

TEST SPECIFICATIONS		Test Method
FCC 15.249:2009		ANSI C63.4:2003

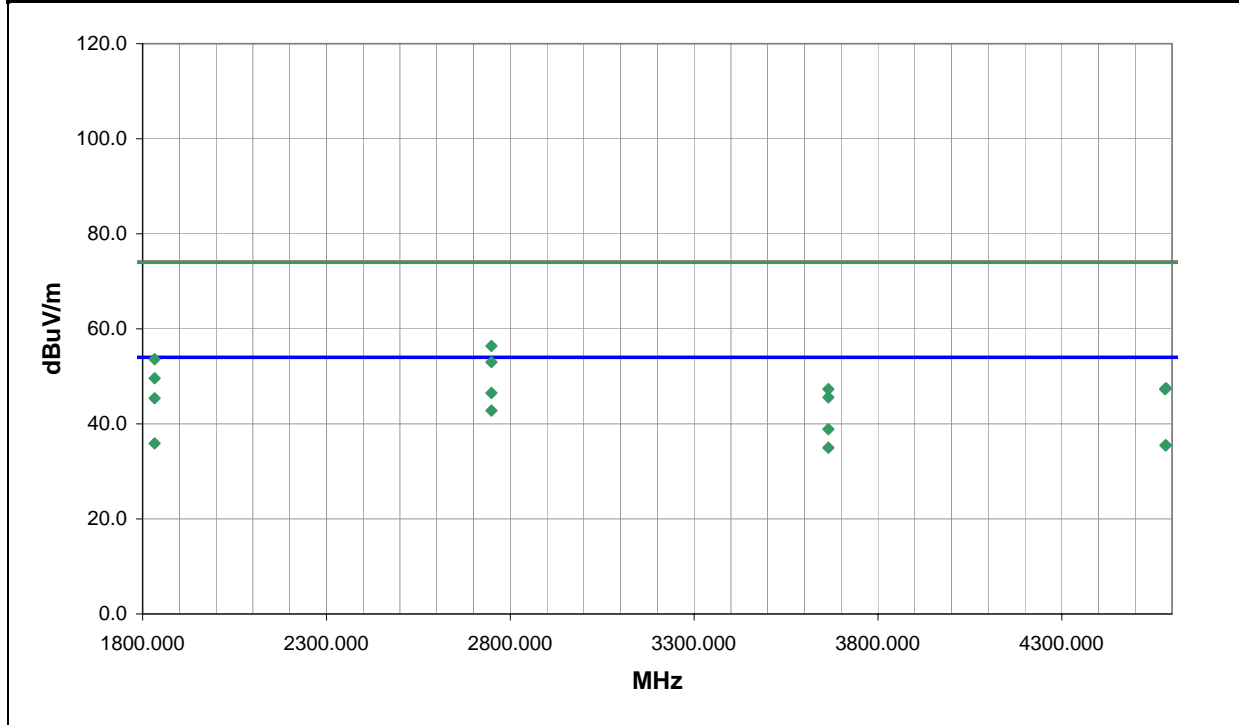
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Y-Axis

EUT OPERATING MODES
Transmitting at 916.5 MHz

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	5	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2748.777	40.8	5.7	0.0	1.3	3.0	0.0	H-Horn	AV	0.0	46.5	54.0	-7.5
1832.682	42.3	3.1	107.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.4	54.0	-8.6
2748.746	37.1	5.7	213.0	1.7	3.0	0.0	V-Horn	AV	0.0	42.8	54.0	-11.2
3665.217	30.0	8.9	222.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.9	54.0	-15.1
2748.731	50.7	5.7	0.0	1.3	3.0	0.0	H-Horn	PK	0.0	56.4	74.0	-17.6
1832.587	32.8	3.1	14.0	2.4	3.0	0.0	H-Horn	AV	0.0	35.9	54.0	-18.1
4582.150	23.5	12.0	1.0	2.3	3.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5
4582.885	23.5	12.0	1.0	2.3	3.0	0.0	H-Horn	AV	0.0	35.5	54.0	-18.5
3665.166	26.1	8.9	88.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.0	54.0	-19.0
1832.577	50.5	3.1	107.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.6	74.0	-20.4
2748.675	47.3	5.7	213.0	1.7	3.0	0.0	V-Horn	PK	0.0	53.0	74.0	-21.0
1832.613	46.5	3.1	14.0	2.4	3.0	0.0	H-Horn	PK	0.0	49.6	74.0	-24.4
4583.536	35.5	12.0	1.0	2.3	3.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5
3665.146	38.4	8.9	222.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.3	74.0	-26.7
4580.887	35.3	12.0	1.0	2.3	3.0	0.0	V-Horn	PK	0.0	47.3	74.0	-26.7
3665.352	36.7	8.9	88.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.6	74.0	-28.4

EUT:	Programmer 3120	Work Order:	BSTN0245
Serial Number:	062654	Date:	04/22/09
Customer:	Boston Scientific Corporation	Temperature:	22.22
Attendees:	Holly	Humidity:	45%
Project:	None	Barometric Pres.:	1014.9 mb
Tested by:	Jaemi Suh	Power:	120VAC/60Hz
		Job Site:	OC10

TEST SPECIFICATIONS		Test Method
FCC 15.249:2009		ANSI C63.4:2003

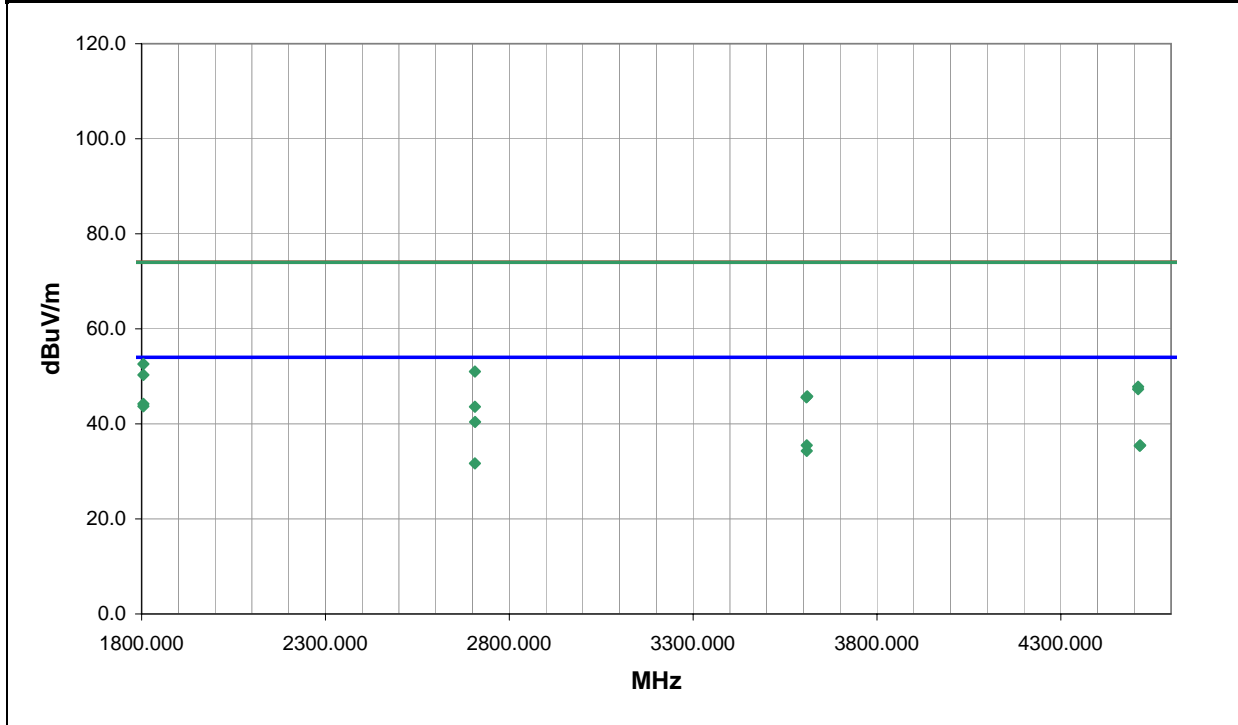
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
X-Axis.

EUT OPERATING MODES
Transmitting at 902.5 MHz

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	6	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
1804.697	41.3	2.9	124.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8
1804.707	40.8	2.9	138.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.7	54.0	-10.3
2706.768	34.9	5.5	359.0	1.5	3.0	0.0	V-Horn	AV	0.0	40.4	54.0	-13.6
3609.227	26.7	8.8	279.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5
4516.124	23.7	11.8	237.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.5	54.0	-18.5
4514.703	23.6	11.8	50.0	2.7	3.0	0.0	V-Horn	AV	0.0	35.4	54.0	-18.6
3609.151	25.5	8.8	346.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7
1804.709	49.7	2.9	124.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.6	74.0	-21.4
2706.674	26.2	5.5	1.0	2.4	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3
2706.588	45.5	5.5	359.0	1.5	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0
1804.593	47.4	2.9	138.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.3	74.0	-23.7
4510.211	36.0	11.8	50.0	2.7	3.0	0.0	V-Horn	PK	0.0	47.8	74.0	-26.2
4510.373	35.5	11.8	237.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.3	74.0	-26.7
3610.168	37.0	8.8	279.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2
3608.117	36.8	8.8	346.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.6	74.0	-28.4
2706.567	38.1	5.5	1.0	2.4	3.0	0.0	H-Horn	PK	0.0	43.6	74.0	-30.4

