



**Boston Scientific Corporation
L331**

**FCC 95I:2014
FCC 15.109:2014**

Report #: BSTN0453.4



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: February 20, 2014
Boston Scientific Corporation
Model: L331

Test Description	Specification	Test Method	Pass/Fail
Conducted Output Power	FCC 951:2014, FCC 2.1046:2014	ANSI/TIA/EIA-603-C:2004	Pass
Spurious Conducted Emissions	FCC 951:2014, FCC 2.1051:2014	ANSI/TIA/EIA-603-C:2004	Pass
Radiated Power (EIRP)	FCC 951:2014, FCC 2.1046:2014	ANSI/TIA/EIA-603-C:2004	Pass
Spurious Radiated Emissions	FCC 951:2014, FCC 2.1053:2014	ANSI/TIA/EIA-603-C:2004	Pass
Receiver Spurious Emissions	FCC 15.109:2014	ANSI C63.4:2009	Pass
Emission Bandwidth	FCC 951:2014, FCC 2.1049:2014	ANSI/TIA/EIA-603-C:2004	Pass
Emission Mask	FCC 951:2014, FCC 2.1049:2014	ANSI/TIA/EIA-603-C:2004	Pass
Frequency Stability	FCC 951:2014, FCC 2.1055:2014	ANSI/TIA/EIA-603-C:2004	Pass

Deviations From Test Standards

None

Approved By:



Jeremiah Darden, Operations Manager



NVLAP Lab Code: 200881-0

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 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.

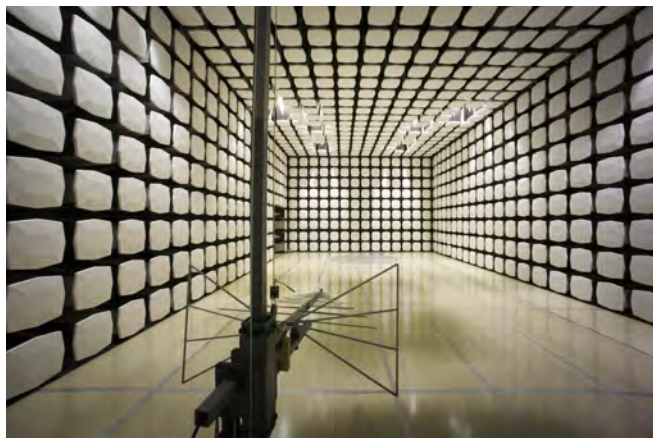
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 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)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70



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



Client and Equipment Under Test (EUT) Information

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Ave. N.
City, State, Zip:	St. Paul, MN 55112
Test Requested By:	Daniel Landherr
Model:	L331
First Date of Test:	February 07, 2014
Last Date of Test:	February 20, 2014
Receipt Date of Samples:	February 07, 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):

The L331 is an implantable Pacemaker that transmits in the MICS band of 402-405 MHz. The L331 and Hybrid contain identical electronics. The L331 is the finished product. Whereas the Hybrid is a development board that facilitates direct connect measurements.

Testing Objective:

Seeking FCC authorization for the MICS transmitter, FCC Part 95.

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
IS1 Lead, Model: 4063, SN: 305813	No	45cm	No	PG	Tissue Simulant
IS1 Lead, Model: 45, SN: 28782266	No	44cm	No	PG	Tissue Simulant

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Configuration BSTN0453- 10

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hybrid	Boston Scientific Corporation	HYB0742	44817004

Configuration BSTN0453- 11

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hybrid	Boston Scientific Corporation	HYB0758	44817013

Configuration BSTN0453- 12

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hybrid	Boston Scientific Corporation	HYB0697	44817017

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2/7/2014	Emission 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.
2	2/7/2014	Emission 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.
3	2/10/2014	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.
4	2/10/2014	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.
5	2/11/2014	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.
6	2/19/2014	Conducted 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.
7	2/19/2014	Spurious 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.
8	2/20/2014	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

CONDUCTED 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
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Attenuator, 20 dB 'SMA'	Fairview Microwave	SA18S5W-20	RFX	8/16/2013	12
Multimeter	Fluke	114	MMU	7/8/2011	36
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	24

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 set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting 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.



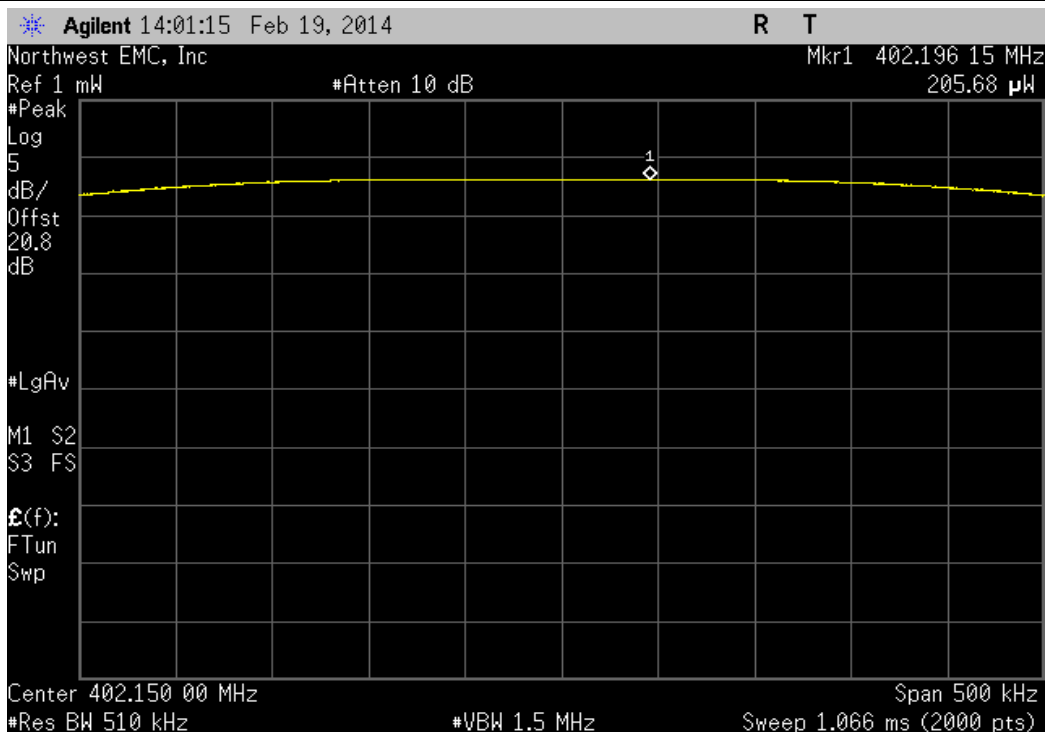
CONDUCTED OUTPUT POWER

XMit 2013.08.15
PsaTx 2013.10.23

EUT: Hybrid		Work Order: BSTN0453	
Serial Number: 44817004, 44817013, 44817017		Date: 02/19/14	
Customer: Boston Scientific Corporation		Temperature: 23.9 C° C	
Attendees: None		Humidity: 19%	
Project: None		Barometric Pres.: 1010	
Tested by: Johnny Candelas		Power: Battery	
		Job Site: MN05	
TEST SPECIFICATIONS			
FCC 95:2014		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	10, 11, 12	Signature 	
		Value	Limit
SN: 44817004			Result
Low Channel, 402.15 MHz		205.684 uW	N/A
Mid Channel, 403.35 MHz		229.721 uW	N/A
High Channel, 404.85 MHz		244.512 uW	N/A
SN: 44817013			
Low Channel, 402.15 MHz		248.428 uW	N/A
Mid Channel, 403.35 MHz		285.496 uW	N/A
High Channel, 404.85 MHz		275.043 uW	N/A
SN: 44817017			
Low Channel, 402.15 MHz		211.787 uW	N/A
Mid Channel, 403.35 MHz		235.722 uW	N/A
High Channel, 404.85 MHz		237.739 uW	N/A

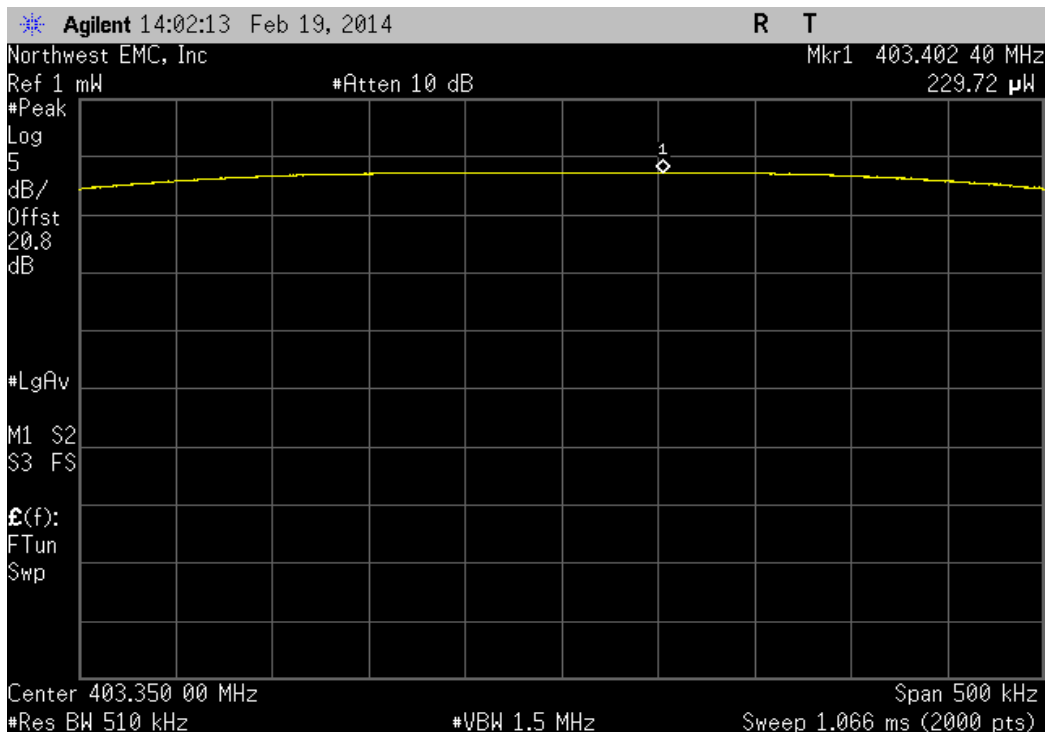
SN: 44817004, Low Channel, 402.15 MHz

				Value	Limit	Result
				205.684 uW	N/A	N/A



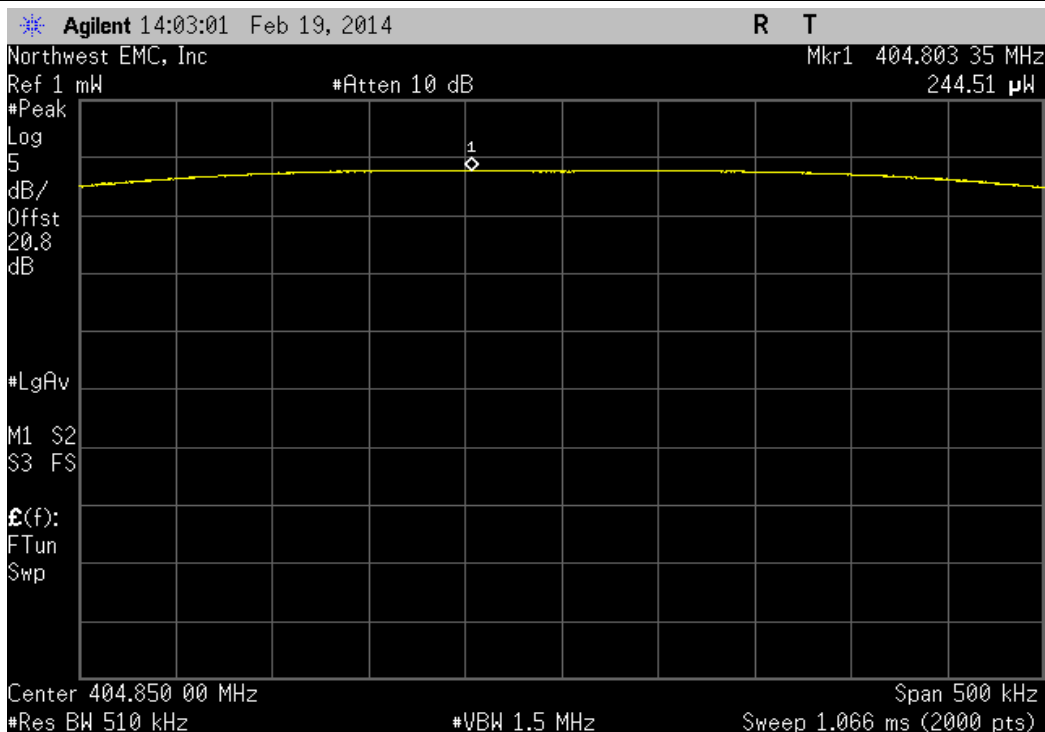
SN: 44817004, Mid Channel, 403.35 MHz

				Value	Limit	Result
				229.721 uW	N/A	N/A



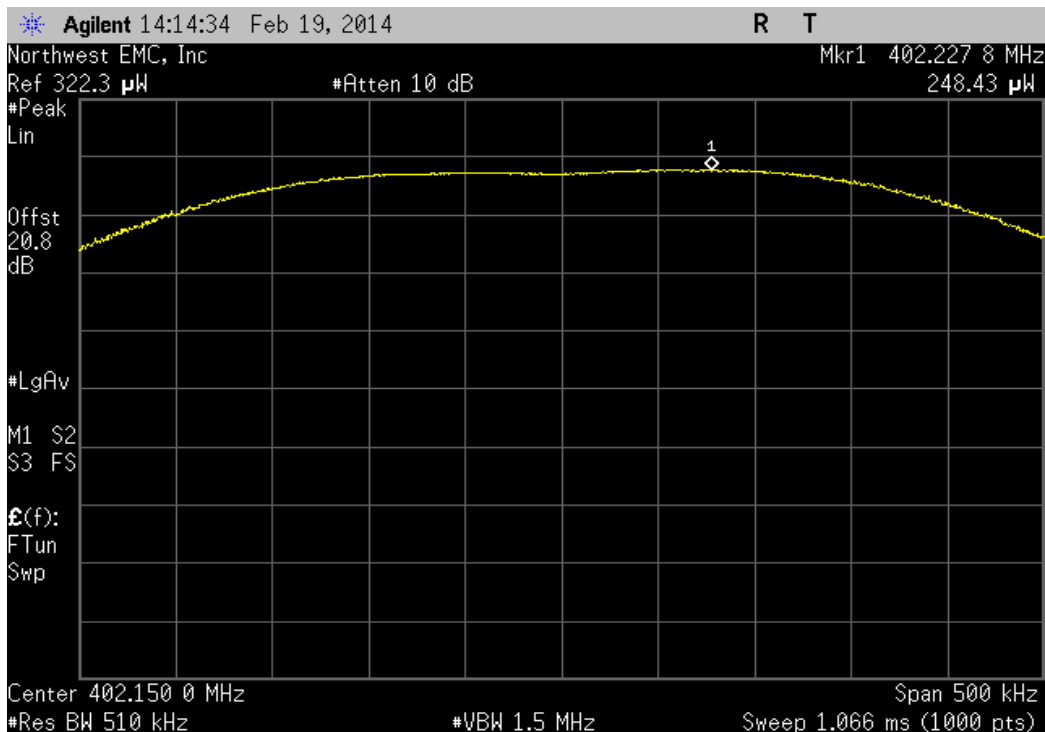
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				Value	Limit	Result
				244.512 uW	N/A	N/A



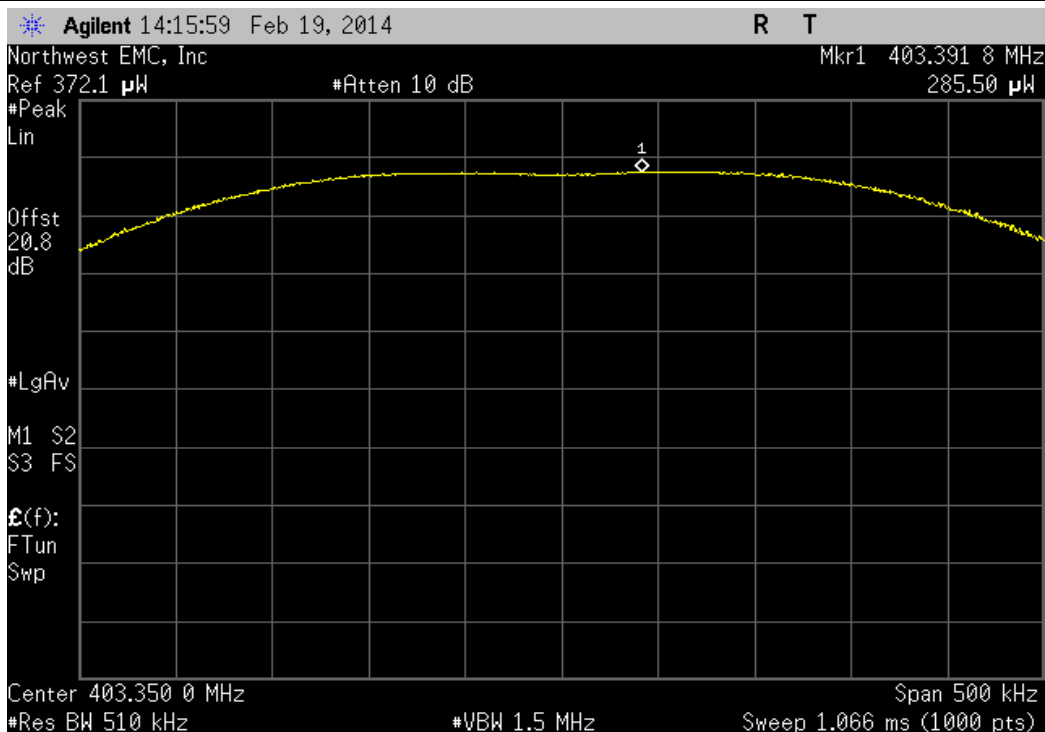
SN: 44817013, Low Channel, 402.15 MHz

				Value	Limit	Result
				248.428 uW	N/A	N/A



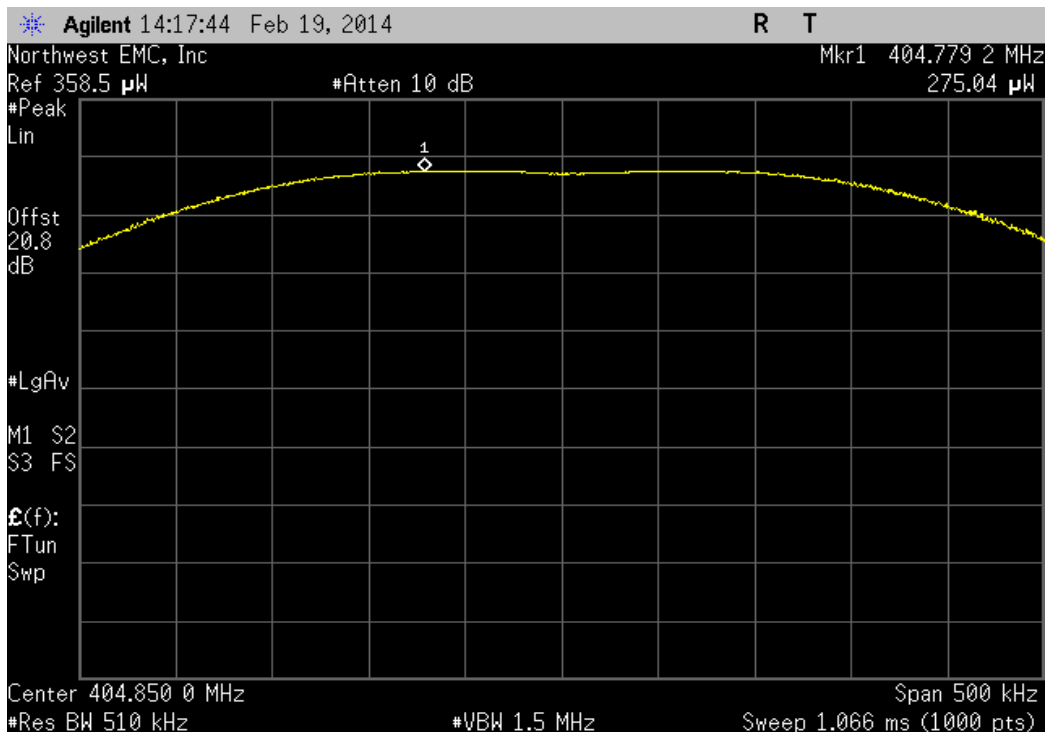
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				Value	Limit	Result
				285.496 uW	N/A	N/A



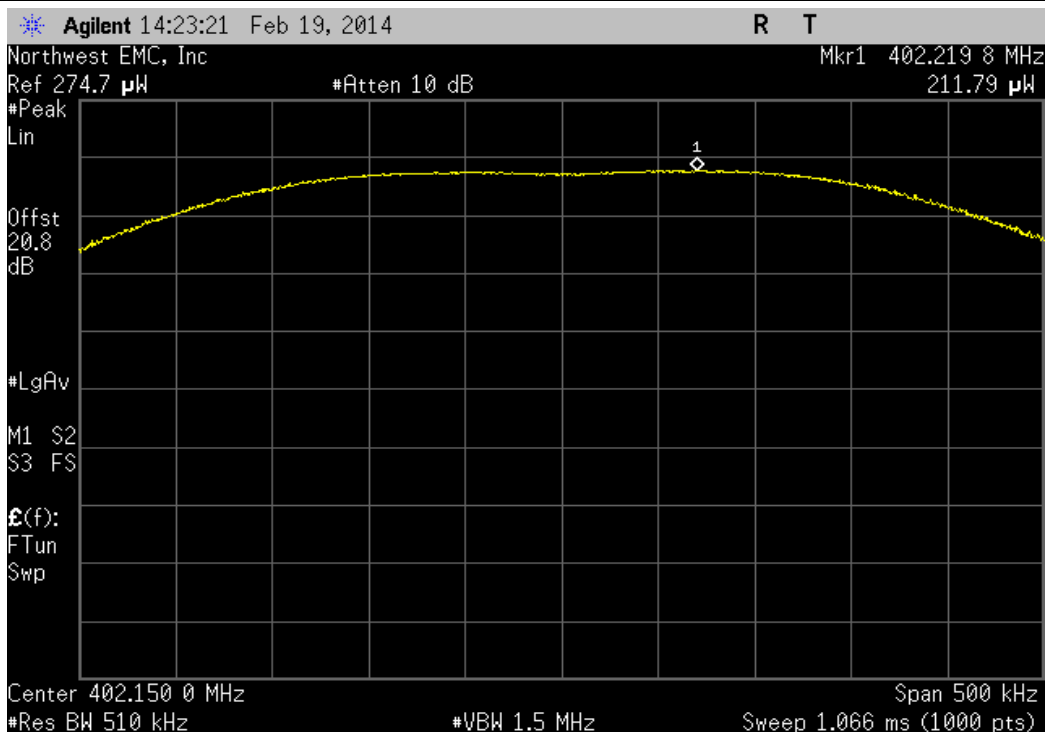
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				Value	Limit	Result
				275.043 uW	N/A	N/A



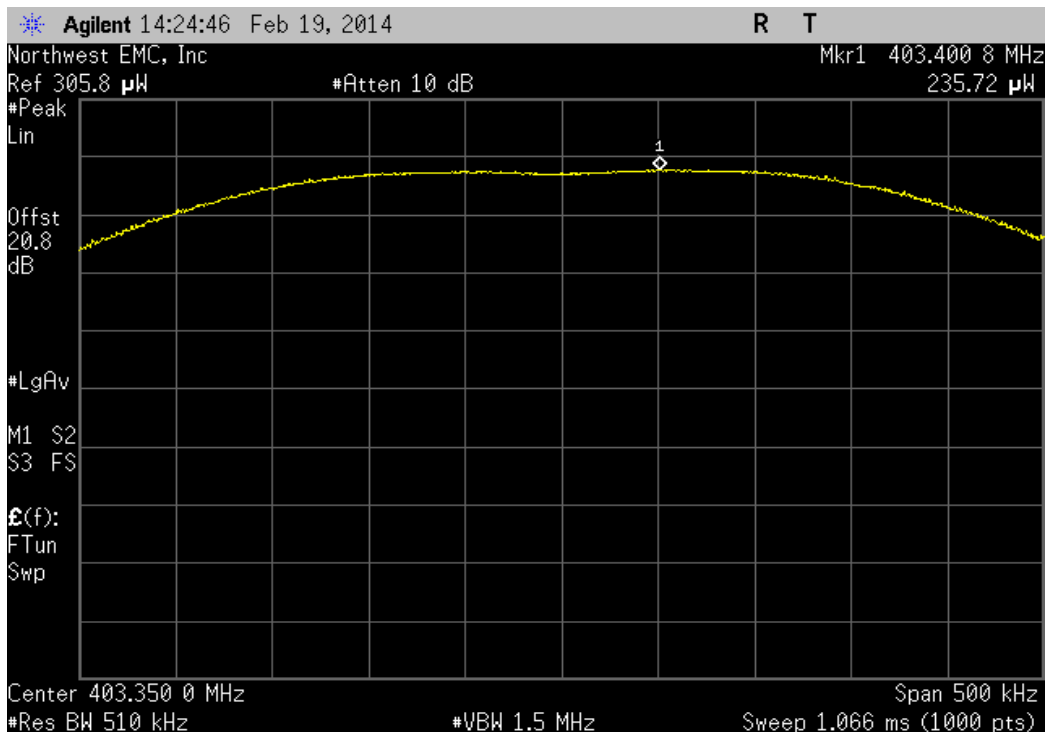
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				Value	Limit	Result
				211.787 uW	N/A	N/A



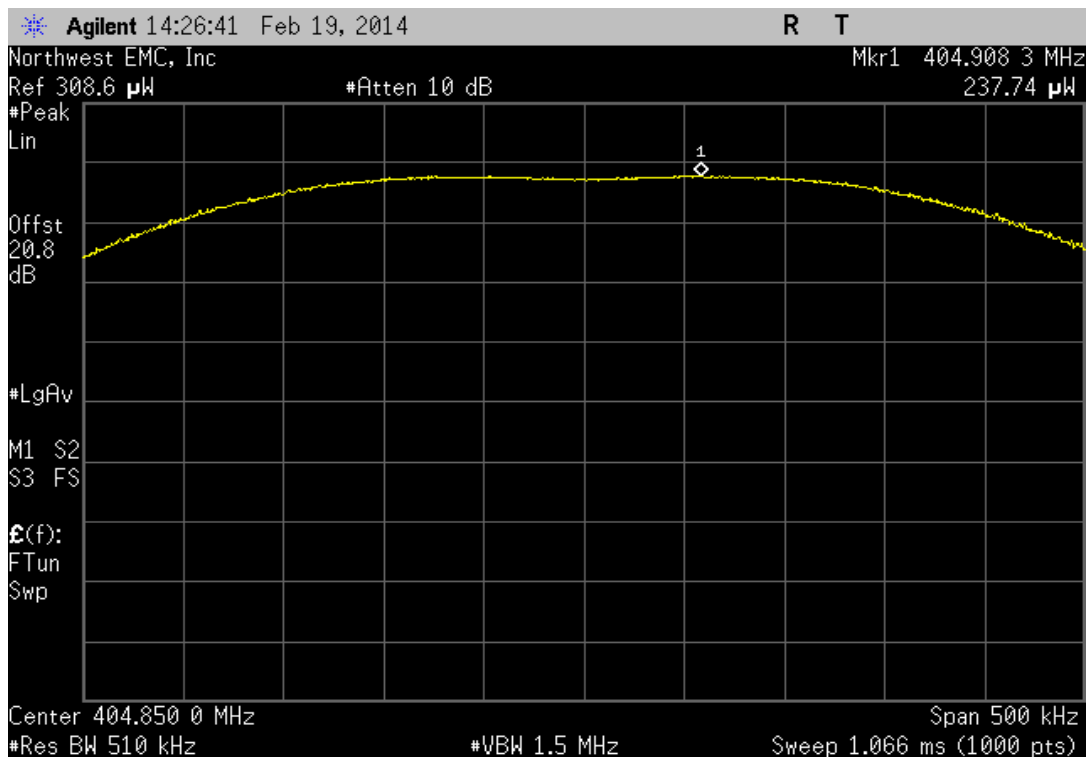
SN: 44817017, Mid Channel, 403.35 MHz

				Value	Limit	Result
				235.722 uW	N/A	N/A



SN: 44817017, High Channel, 404.85 MHz

				Value	Limit	Result
				237.739 uW	N/A	N/A



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
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Attenuator, 20 dB 'SMA'	Fairview Microwave	SA18S5W-20	RFX	8/16/2013	12
Multimeter	Fluke	114	MMU	7/8/2011	36
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	24

TEST DESCRIPTION

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

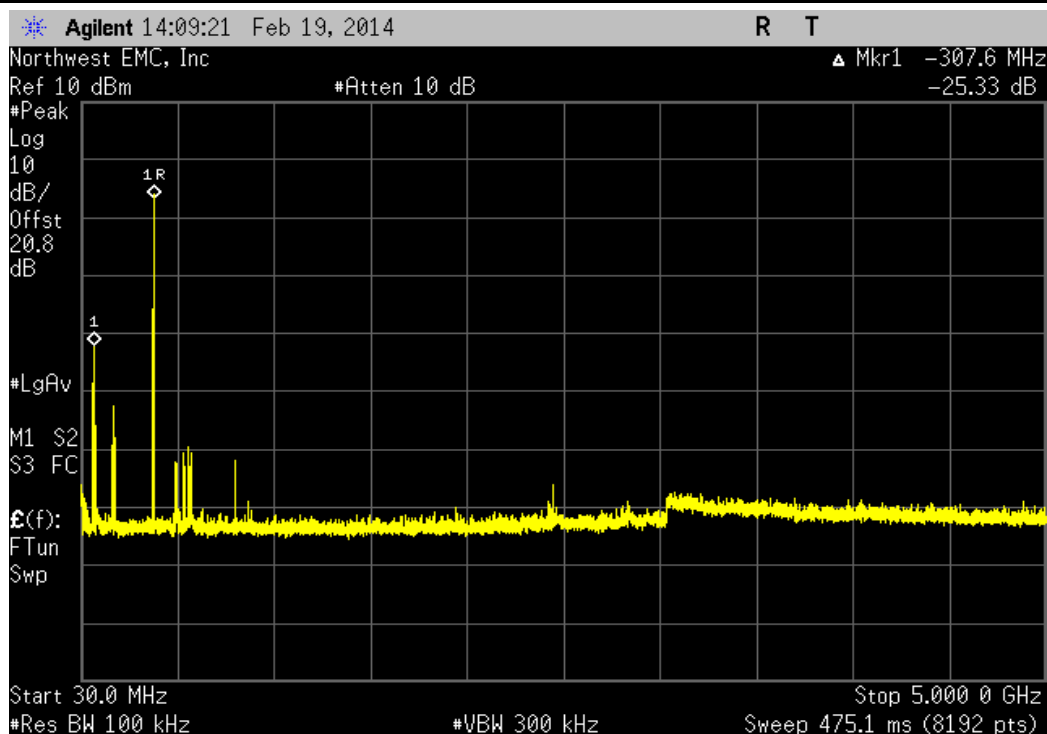


SPURIOUS CONDUCTED EMISSIONS

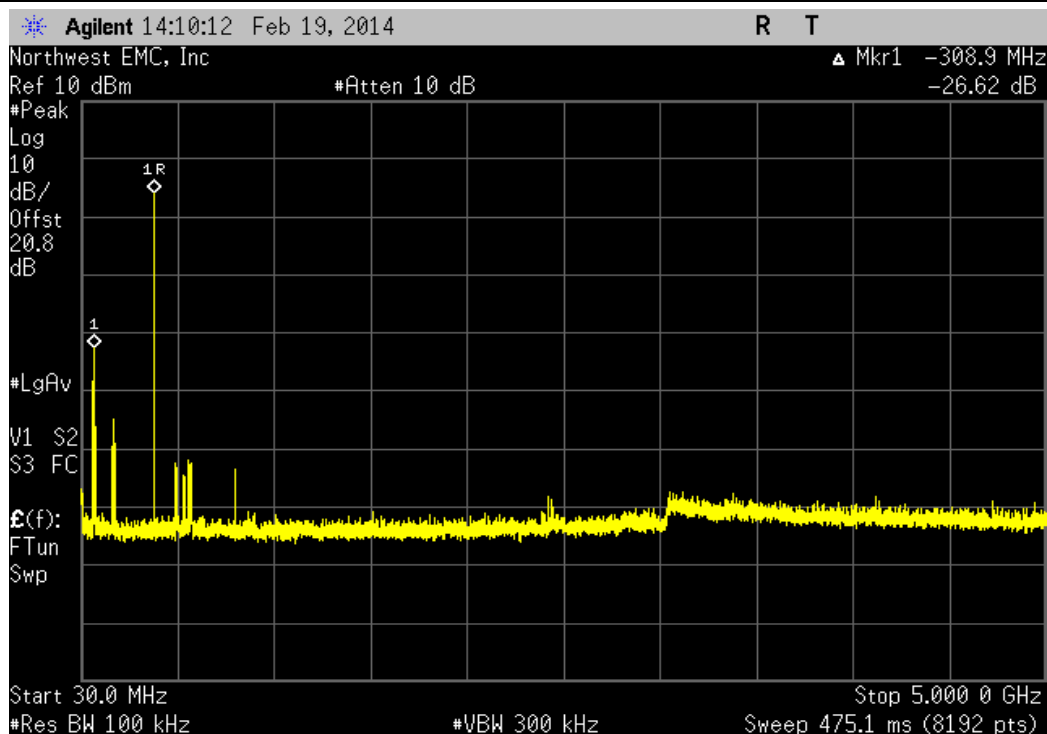
XMit 2013.08.15
PsaTx 2013.10.23

EUT: Hybrid		Work Order: BSTN0453			
Serial Number: 44817004, 44817013, 44817017		Date: 02/19/14			
Customer: Boston Scientific Corporation		Temperature: 23.9 C°			
Attendees: None		Humidity: 19%			
Project: None		Barometric Pres.: 1010			
Tested by: Johnny Candelas		Power: Battery			
		Job Site: MN05			
TEST SPECIFICATIONS		Test Method			
FCC 95:2014		ANSI/TIA/EIA-603-C-2004			
COMMENTS					
None					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	10, 11, 12	Signature 			
		Frequency Range	Value	Limit	Result
SN: 44817004					
	Low Channel, 402.15 MHz	30 MHz - 5 GHz	-25.33 dBc	N/A	N/A
	Mid Channel, 403.35 MHz	30 MHz - 5 GHz	-26.62 dBc	N/A	N/A
	High Channel, 404.85 MHz	30 MHz - 5 GHz	-27.26 dBc	N/A	N/A
SN: 44817013					
	Low Channel, 402.15 MHz	30 MHz - 5 GHz	-26.3 dBc	N/A	N/A
	Mid Channel, 403.35 MHz	30 MHz - 5 GHz	-27 dBc	N/A	N/A
	High Channel, 404.85 MHz	30 MHz - 5 GHz	-27.63 dBc	N/A	N/A
SN: 44817017					
	Low Channel, 402.15 MHz	30 MHz - 5 GHz	-28.02 dBc	N/A	N/A
	Mid Channel, 403.35 MHz	30 MHz - 5 GHz	-29.33 dBc	N/A	N/A
	High Channel, 404.85 MHz	30 MHz - 5 GHz	-28.89 dBc	N/A	N/A

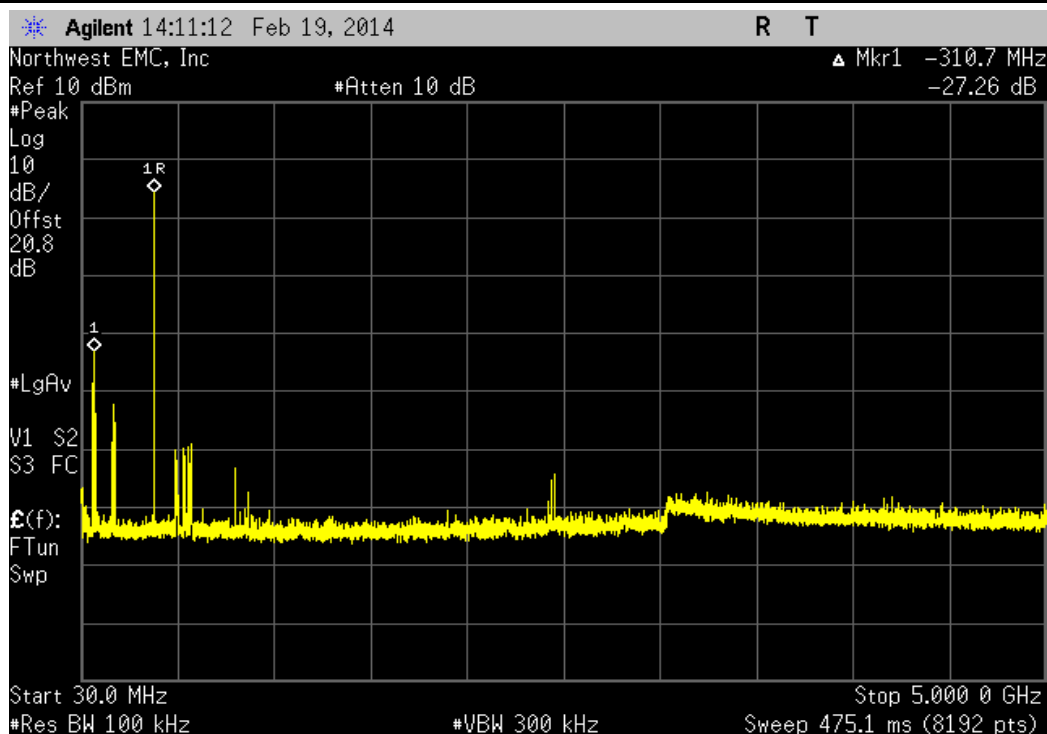
SN: 44817004, Low Channel, 402.15 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-25.33 dBc	N/A	N/A



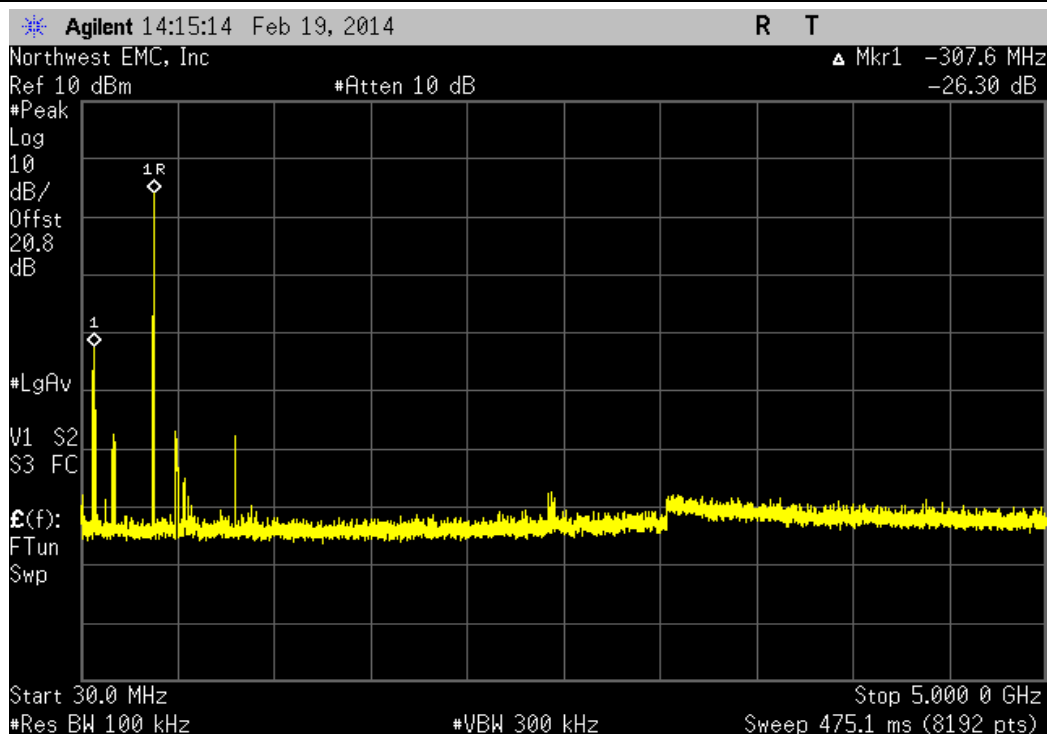
SN: 44817004, Mid Channel, 403.35 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-26.62 dBc	N/A	N/A



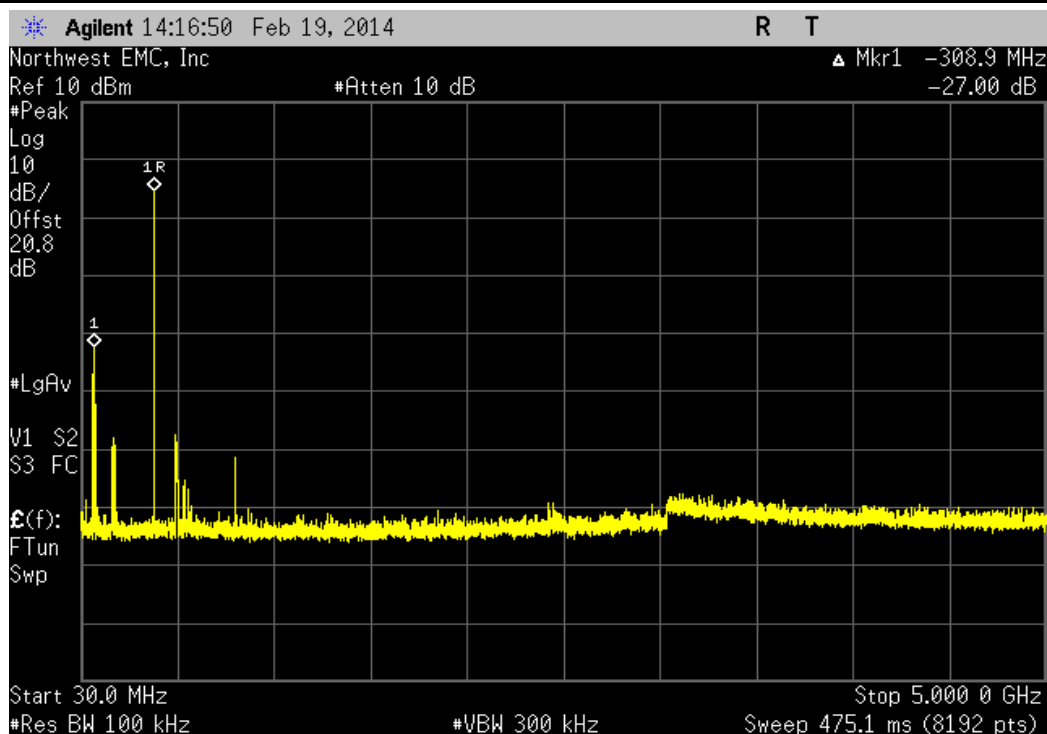
SN: 44817004, High Channel, 404.85 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-27.26 dBc	N/A	N/A



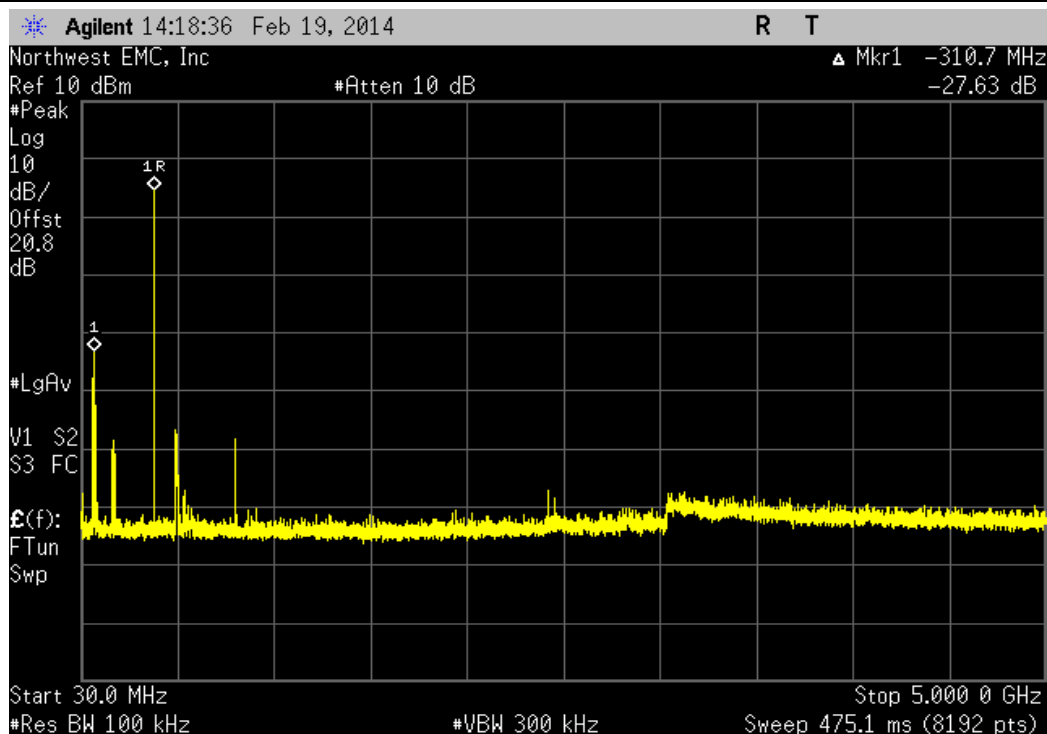
SN: 44817013, Low Channel, 402.15 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-26.3 dBc	N/A	N/A



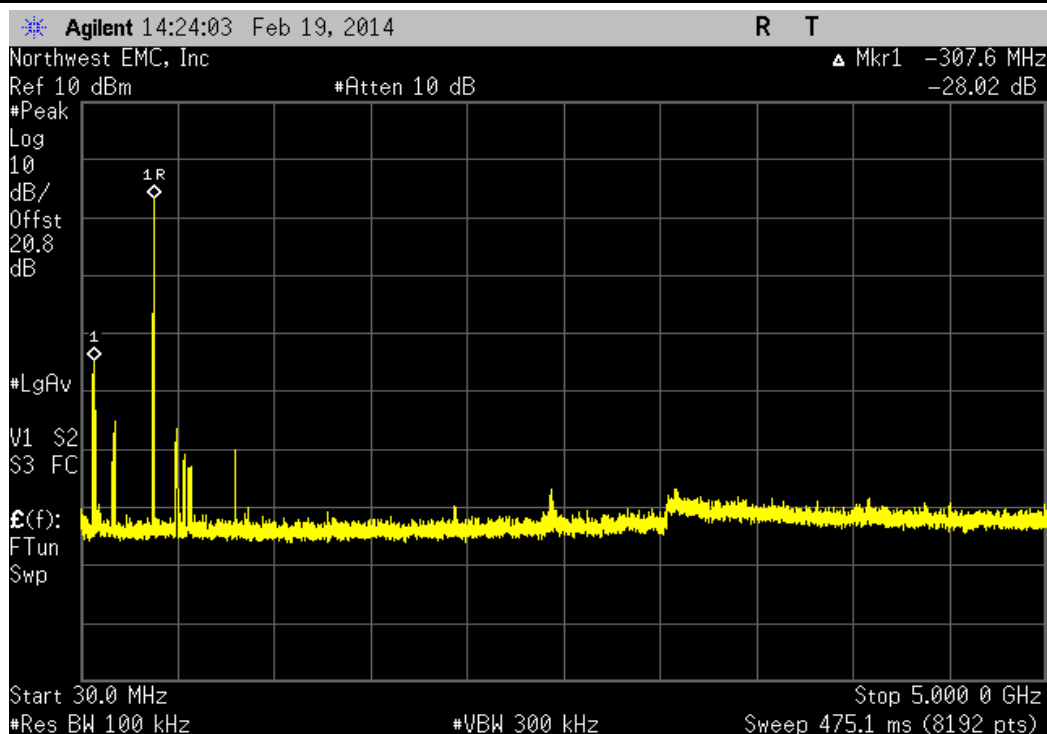
SN: 44817013, Mid Channel, 403.35 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-27 dBc	N/A	N/A



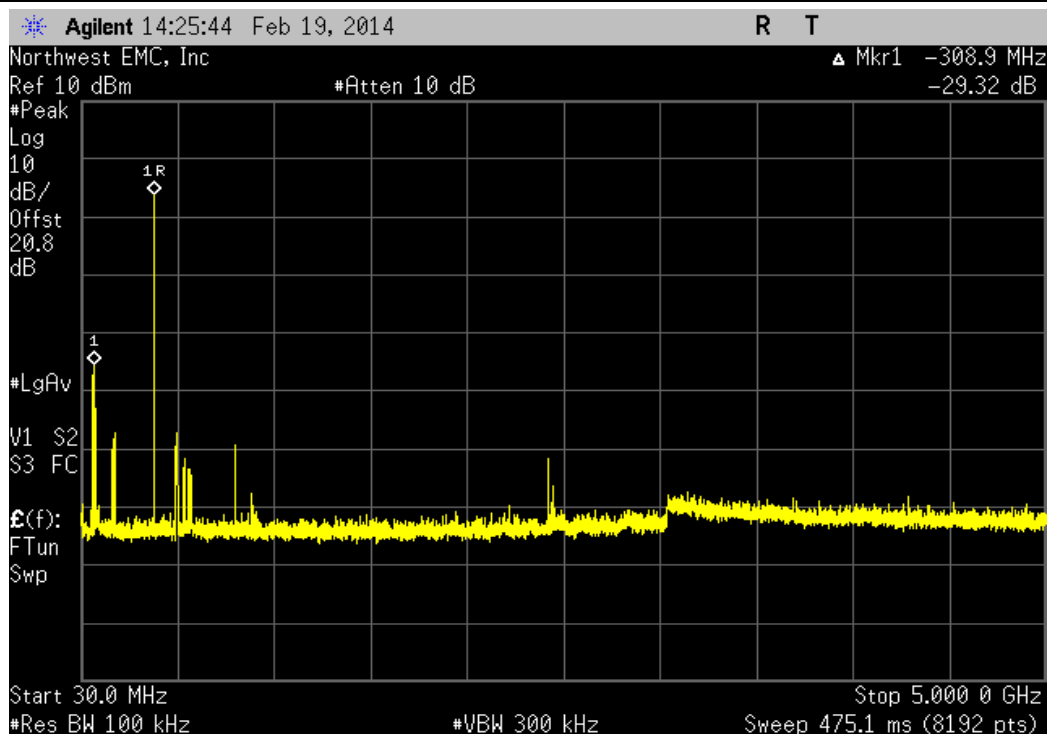
SN: 44817013, High Channel, 404.85 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-27.63 dBc	N/A	N/A



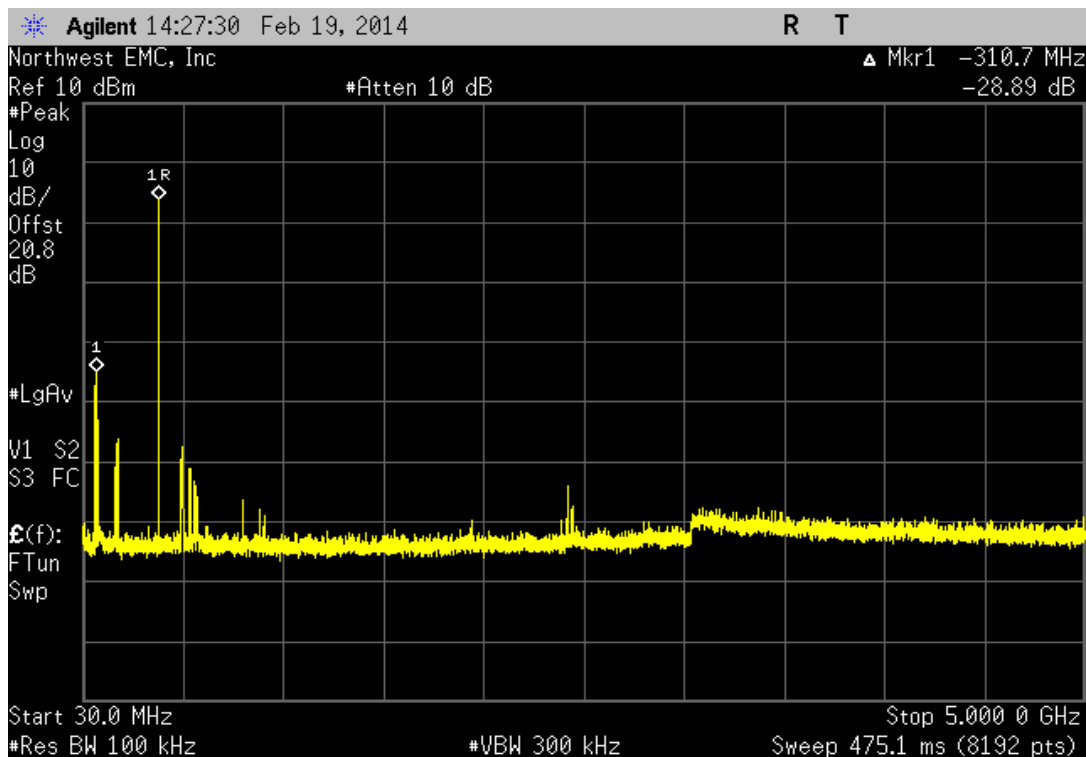
SN: 44817017, Low Channel, 402.15 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-28.02 dBc	N/A	N/A



SN: 44817017, Mid Channel, 403.35 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 5 GHz		-29.33 dBc	N/A	N/A



SN: 44817017, High Channel, 404.85 MHz			
Frequency	Range	Value	Limit
	30 MHz - 5 GHz	-28.89 dBc	N/A
			Result
			N/A



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 at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, CW

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0453 - 1

BSTN0453 - 2

BSTN0453 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency 402 MHz

Stop Frequency 405 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, Dipole	EMCO	3121C-DB4	ADI	12/21/2012	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
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2013	12 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.

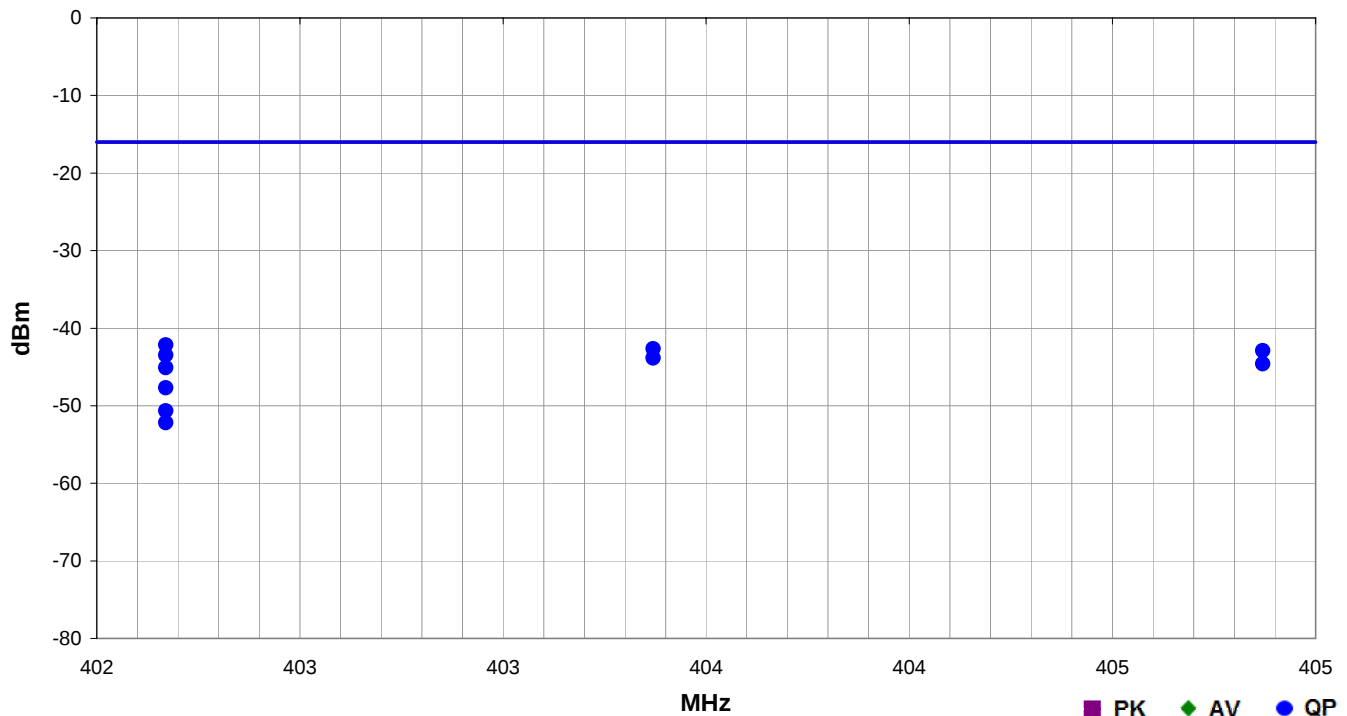
The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.627(i) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

RADIATED POWER (EIRP)

Work Order:	BSTN0453	Date:	02/11/14	
Project:	None	Temperature:	22 °C	
Job Site:	MN05	Humidity:	8.1% RH	
Serial Number:	417249	Barometric Pres.:	1032 mbar	
EUT:	L331			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, CW			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

Run #	28	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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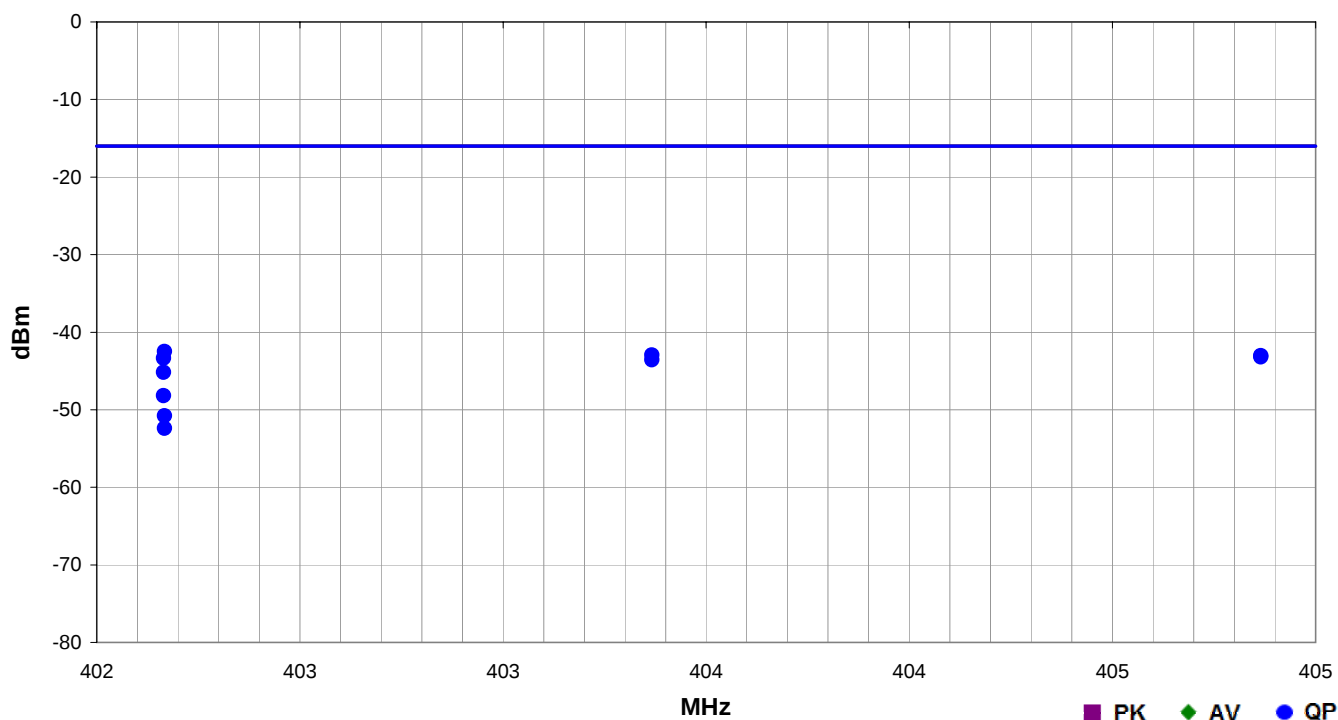
	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	402.170	1.6	0.0	Vert	QP	6.05E-08	-42.2	-16.0	-26.2	EUT Vert, Low Ch
	403.370	1.6	0.0	Vert	QP	5.43E-08	-42.7	-16.0	-26.7	EUT Vert, Mid Ch
	404.870	1.6	331.0	Vert	QP	5.11E-08	-42.9	-16.0	-26.9	EUT Vert, High Ch
	402.170	1.2	266.0	Horz	QP	4.49E-08	-43.5	-16.0	-27.5	EUT Vert, Low Ch
	403.370	1.1	267.0	Horz	QP	4.12E-08	-43.9	-16.0	-27.9	EUT Vert, Mid Ch
	404.870	1.8	102.0	Horz	QP	3.45E-08	-44.6	-16.0	-28.6	EUT Vert, High Ch
	402.170	1.6	328.0	Vert	QP	3.11E-08	-45.1	-16.0	-29.1	EUT on Side, Low Ch
	402.170	2.7	263.0	Horz	QP	1.71E-08	-47.7	-16.0	-31.7	EUT on Side, Low Ch
	402.170	1.7	340.0	Vert	QP	8.55E-09	-50.7	-16.0	-34.7	EUT Horz, Low Ch
	402.170	2.0	235.0	Horz	QP	6.05E-09	-52.2	-16.0	-36.2	EUT Horz, Low Ch

RADIATED POWER (EIRP)

Work Order:	BSTN0453	Date:	02/11/14	
Project:	None	Temperature:	22 °C	
Job Site:	MN05	Humidity:	8.1% RH	
Serial Number:	417250	Barometric Pres.:	1032 mbar	
EUT:	L331			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, CW			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

Run #	27	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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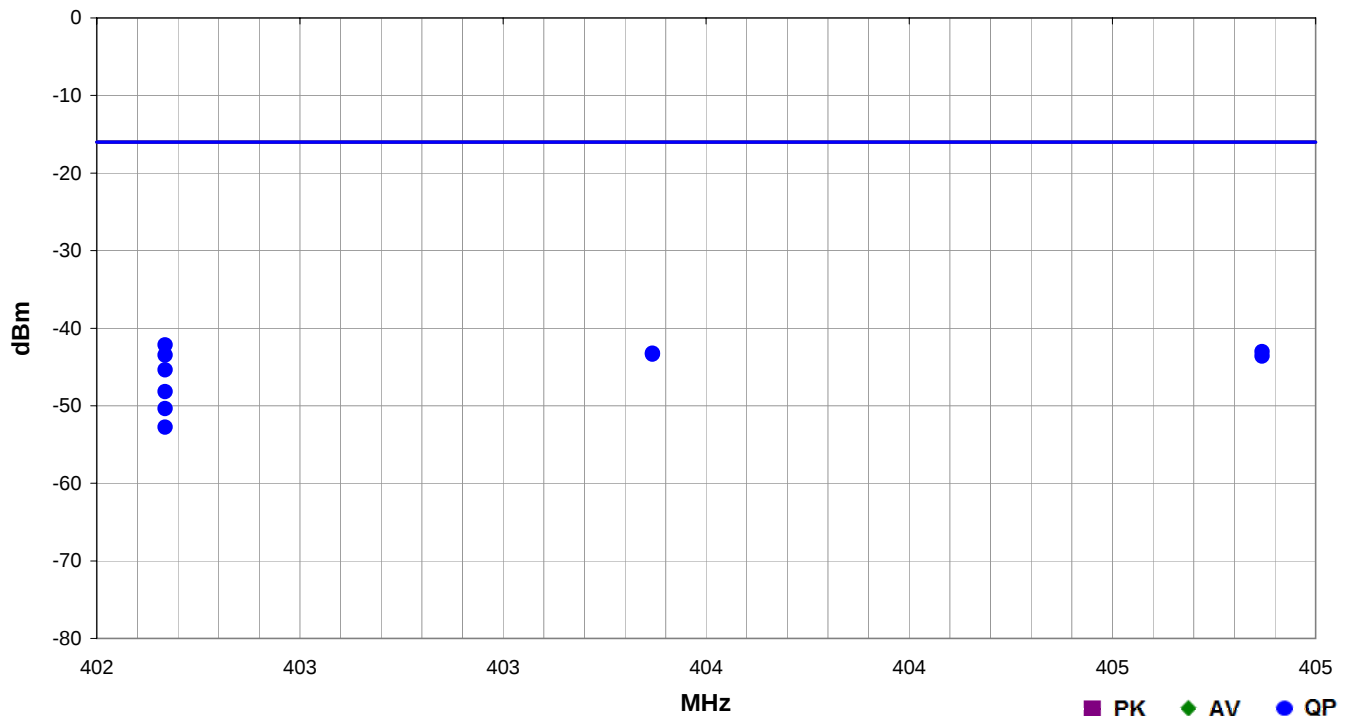
	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	402.167	1.6	351.0	Vert	QP	5.65E-08	-42.5	-16.0	-26.5	EUT Vert, Low Ch
	403.367	1.6	344.0	Vert	QP	5.07E-08	-43.0	-16.0	-27.0	EUT Vert, Mid Ch
	404.865	1.2	269.0	Horz	QP	4.99E-08	-43.0	-16.0	-27.0	EUT Vert, High Ch
	404.865	1.6	0.0	Vert	QP	4.77E-08	-43.2	-16.0	-27.2	EUT Vert, High Ch
	402.165	1.2	264.0	Horz	QP	4.59E-08	-43.4	-16.0	-27.4	EUT Vert, Low Ch
	403.367	1.1	265.0	Horz	QP	4.41E-08	-43.6	-16.0	-27.6	EUT Vert, Mid Ch
	402.165	1.6	315.0	Vert	QP	3.03E-08	-45.2	-16.0	-29.2	EUT on Side, Low Ch
	402.165	2.7	261.0	Horz	QP	1.52E-08	-48.2	-16.0	-32.2	EUT on Side, Low Ch
	402.167	1.7	341.0	Vert	QP	8.36E-09	-50.8	-16.0	-34.8	EUT Horz, Low Ch
	402.167	1.2	239.0	Horz	QP	5.78E-09	-52.4	-16.0	-36.4	EUT Horz, Low Ch

RADIATED POWER (EIRP)

Work Order:	BSTN0453	Date:	02/11/14	
Project:	None	Temperature:	22 °C	
Job Site:	MN05	Humidity:	8.1% RH	
Serial Number:	417251	Barometric Pres.:	1032 mbar	
EUT:	L331			
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, CW			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

Run #	26	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
402.168	1.6	354.0	Vert	QP	6.05E-08	-42.2	-16.0	-26.2	EUT Vert, Low Ch
404.868	1.6	346.0	Vert	QP	4.99E-08	-43.0	-16.0	-27.0	EUT Vert, High Ch
403.368	1.6	350.0	Vert	QP	4.73E-08	-43.3	-16.0	-27.3	EUT Vert, Mid Ch
403.868	1.1	263.0	Horz	QP	4.62E-08	-43.4	-16.0	-27.4	EUT Vert, Mid Ch
402.168	1.1	268.0	Horz	QP	4.49E-08	-43.5	-16.0	-27.5	EUT Vert, Low Ch
404.868	1.1	267.0	Horz	QP	4.35E-08	-43.6	-16.0	-27.6	EUT Vert, High Ch
402.168	1.6	321.0	Vert	QP	2.90E-08	-45.4	-16.0	-29.4	EUT on Side, Low Ch
402.168	2.7	262.0	Horz	QP	1.52E-08	-48.2	-16.0	-32.2	EUT on Side, Low Ch
402.168	1.7	352.0	Vert	QP	9.16E-09	-50.4	-16.0	-34.4	EUT Horz, Low Ch
402.168	1.1	247.0	Horz	QP	5.27E-09	-52.8	-16.0	-36.8	EUT Horz, Low Ch

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 at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, Psuedorandom.

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0453 - 1

BSTN0453 - 2

BSTN0453 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 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
Antenna, Dipole	EMCO	3121C-DB4	ADI	12/21/2012	36 mo
Antenna, Horn	ETS	3115	AJA	5/13/2011	36 mo
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36 mo
Power Sensor	Agilent	N8481A	SQL	8/27/2012	24 mo
Power Meter	Agilent	N1913A	SQL	8/27/2012	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2013	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	8/30/2013	12 mo
MN04 Cables	ESM Cable Corp.	Double Ridge Horn Cables	MNS	8/30/2013	12 mo
Antenna, Horn	ETS	3115	AIB	8/23/2012	36 mo
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	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

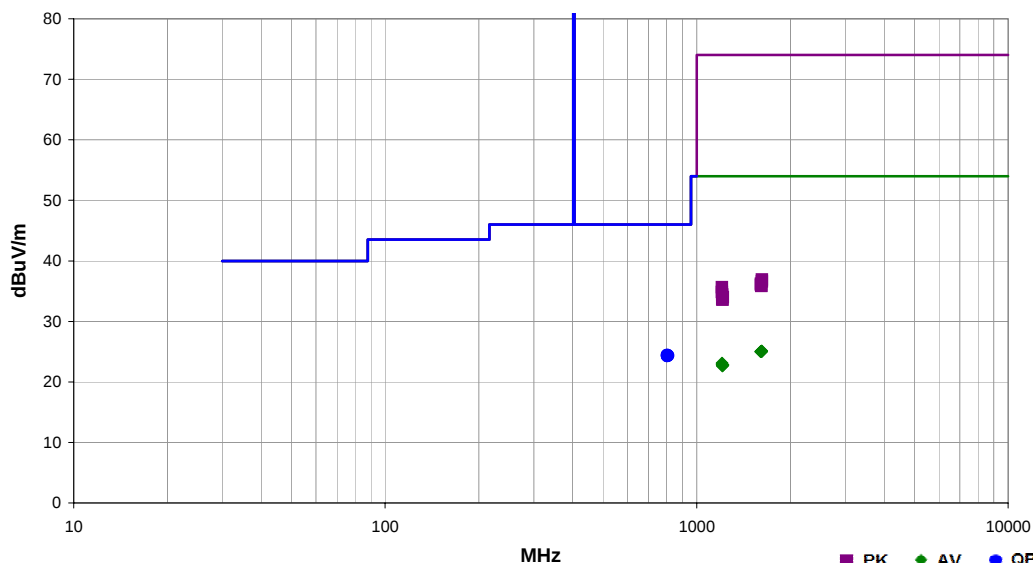
TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2009). A preamp was used for this test in order to provide sufficient measurement sensitivity.

Work Order:	BSTN0453	Date:	02/10/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	MN04 & MN05	Humidity:	6.8% RH	
Serial Number:	417249	Barometric Pres.:	1034 mbar	Tested by: Johnny Candelas
EUT:	L331			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, Psuedorandom.			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 951:2014	ANSI/TIA/EIA-603-C:2004

Run #	7	Test Distance (m)	3	Antenna Height(s)	1-4m	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
806.923	16.4	8.0	1.5	89.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
804.652	16.4	8.0	1.5	236.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Horz, Low Ch
803.867	16.4	8.0	1.5	183.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Low Ch
809.673	16.3	8.0	2.6	118.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
810.165	16.3	8.0	1.5	314.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
806.300	16.3	8.0	1.0	93.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Mid Ch
804.737	16.3	8.0	1.5	99.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.515	16.3	8.0	1.5	69.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.300	16.3	8.0	1.5	206.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
804.115	16.3	8.0	3.1	358.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Horz, Low Ch
1618.265	30.9	-5.8	1.0	238.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	EUT Vert, High Ch
1613.995	30.9	-5.8	1.0	35.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	EUT Vert, Mid Ch
1613.965	30.9	-5.8	1.0	69.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, Mid Ch
1607.605	30.9	-5.9	1.0	20.0	3.0	0.0	Vert	AV	0.0	25.0	54.0	-29.0	EUT Vert, Low Ch
1607.460	30.9	-5.9	1.0	6.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	EUT Vert, Low Ch
1618.940	30.8	-5.8	1.0	35.0	3.0	0.0	Vert	AV	0.0	25.0	54.0	-29.0	EUT Vert, High Ch
1207.175	31.8	-8.7	1.0	89.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9	EUT Vert, Low Ch
1206.965	31.5	-8.7	1.0	19.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, Low Ch
1214.120	31.4	-8.6	1.0	85.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, High Ch
1213.250	31.4	-8.6	1.3	107.0	3.0	0.0	Vert	AV	0.0	22.8	54.0	-31.2	EUT Vert, High Ch
1211.320	31.4	-8.6	1.0	200.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, Low Ch
1210.625	31.3	-8.7	2.3	170.0	3.0	0.0	Vert	AV	0.0	22.6	54.0	-31.4	EUT Vert, Mid Ch
1620.530	42.7	-5.8	1.0	35.0	3.0	0.0	Vert	PK	0.0	36.9	74.0	-37.1	EUT Vert, High Ch
1620.085	42.4	-5.8	1.0	238.0	3.0	0.0	Horz	PK	0.0	36.6	74.0	-37.4	EUT Vert, High Ch
1608.230	42.1	-5.9	1.0	6.0	3.0	0.0	Horz	PK	0.0	36.2	74.0	-37.8	EUT Vert, Low Ch
1608.355	41.9	-5.9	1.0	20.0	3.0	0.0	Vert	PK	0.0	36.0	74.0	-38.0	EUT Vert, Low Ch
1613.295	41.7	-5.8	1.0	69.0	3.0	0.0	Vert	PK	0.0	35.9	74.0	-38.1	EUT Vert, Mid Ch
1613.070	41.7	-5.9	1.0	35.0	3.0	0.0	Horz	PK	0.0	35.8	74.0	-38.2	EUT Vert, Mid Ch
1206.920	44.3	-8.7	1.0	89.0	3.0	0.0	Vert	PK	0.0	35.6	74.0	-38.4	EUT Vert, Low Ch
1207.090	43.5	-8.7	1.0	19.0	3.0	0.0	Horz	PK	0.0	34.8	74.0	-39.2	EUT Vert, Low Ch
1209.280	43.1	-8.7	2.3	170.0	3.0	0.0	Vert	PK	0.0	34.4	74.0	-39.6	EUT Vert, Mid Ch
1214.760	42.6	-8.6	1.0	85.0	3.0	0.0	Horz	PK	0.0	34.0	74.0	-40.0	EUT Vert, High Ch
1210.025	42.3	-8.7	1.0	200.0	3.0	0.0	Horz	PK	0.0	33.6	74.0	-40.4	EUT Vert, Mid Ch
1213.425	42.2	-8.6	1.3	107.0	3.0	0.0	Vert	PK	0.0	33.6	74.0	-40.4	EUT Vert, High Ch



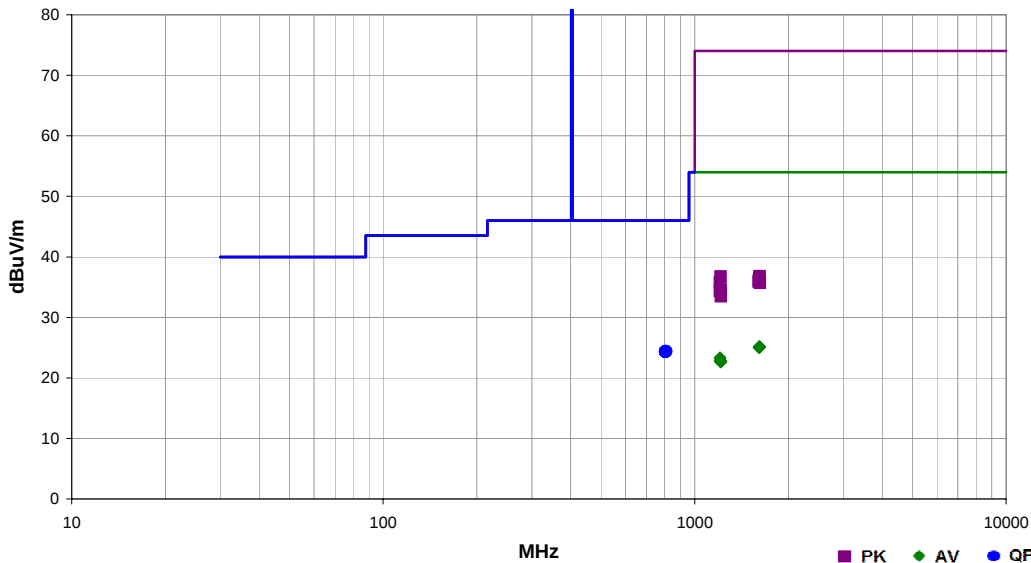
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2014.01.02

Work Order:	BSTN0453	Date:	02/10/14		
Project:	None	Temperature:	22.7 °C		
Job Site:	MN04 & MN05	Humidity:	6.8% RH		
Serial Number:	417250	Barometric Pres.:	1034 mbar	Tested by:	Johnny Candelas
EUT:	L331				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	Niharika Varanasi				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, Psuedorandom.				
Deviations:	None				
Comments:	None				

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

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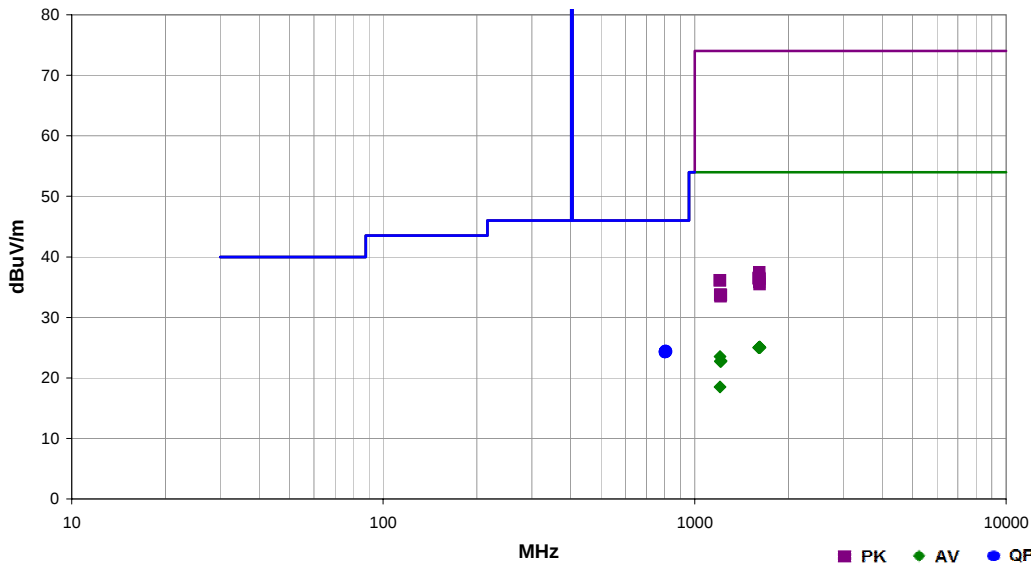


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
810.077	16.4	8.0	1.5	200.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
804.500	16.4	8.0	1.2	281.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Low Ch
809.850	16.3	8.0	1.3	3.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
806.895	16.3	8.0	1.5	18.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Mid Ch
806.728	16.3	8.0	1.5	22.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Mid Ch
804.800	16.3	8.0	1.5	78.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Horz, Low Ch
804.800	16.3	8.0	1.0	204.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Horz, Low Ch
804.695	16.3	8.0	1.5	11.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.577	16.3	8.0	2.3	353.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.472	16.3	8.0	3.0	316.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
1613.630	31.0	-5.8	1.0	277.0	3.0	0.0	Horz	AV	0.0	25.2	54.0	-28.8	EUT Vert, Mid Ch
1608.200	31.0	-5.9	2.7	7.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, Low Ch
1618.785	30.9	-5.8	2.9	348.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	EUT Vert, High Ch
1618.665	30.9	-5.8	1.0	224.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, High Ch
1614.750	30.9	-5.8	1.0	298.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, Mid Ch
1608.395	30.9	-5.9	2.9	44.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	EUT Vert, Low Ch
1207.110	32.0	-8.7	1.0	233.0	3.0	0.0	Vert	AV	0.0	23.3	54.0	-30.7	EUT Vert, Low Ch
1209.350	31.5	-8.7	1.3	54.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, Mid Ch
1206.945	31.5	-8.7	1.0	167.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, Low Ch
1213.375	31.4	-8.6	1.0	151.0	3.0	0.0	Vert	AV	0.0	22.8	54.0	-31.2	EUT Vert, High Ch
1214.130	31.3	-8.6	1.0	324.0	3.0	0.0	Horz	AV	0.0	22.7	54.0	-31.3	EUT Vert, High Ch
1210.830	31.3	-8.7	1.3	213.0	3.0	0.0	Vert	AV	0.0	22.6	54.0	-31.4	EUT Vert, Mid Ch
1618.410	42.6	-5.8	1.0	224.0	3.0	0.0	Vert	PK	0.0	36.8	74.0	-37.2	EUT Vert, High Ch
1211.360	45.4	-8.6	1.3	213.0	3.0	0.0	Vert	PK	0.0	36.8	74.0	-37.2	EUT Vert, Mid Ch
1614.065	42.3	-5.8	1.0	298.0	3.0	0.0	Vert	PK	0.0	36.5	74.0	-37.5	EUT Vert, Mid Ch
1612.420	42.1	-5.9	1.0	277.0	3.0	0.0	Horz	PK	0.0	36.2	74.0	-37.8	EUT Vert, Mid Ch
1610.030	42.0	-5.9	2.9	44.0	3.0	0.0	Horz	PK	0.0	36.1	74.0	-37.9	EUT Vert, Low Ch
1607.590	41.8	-5.9	2.7	7.0	3.0	0.0	Vert	PK	0.0	35.9	74.0	-38.1	EUT Vert, Low Ch
1206.950	44.5	-8.7	1.0	233.0	3.0	0.0	Vert	PK	0.0	35.8	74.0	-38.2	EUT Vert, Low Ch
1620.220	41.5	-5.8	2.9	348.0	3.0	0.0	Horz	PK	0.0	35.7	74.0	-38.3	EUT Vert, High Ch
1209.035	43.7	-8.7	1.3	54.0	3.0	0.0	Horz	PK	0.0	35.0	74.0	-39.0	EUT Vert, Mid Ch
1214.840	43.1	-8.6	1.0	324.0	3.0	0.0	Horz	PK	0.0	34.5	74.0	-39.5	EUT Vert, High Ch
1206.925	43.0	-8.7	1.0	167.0	3.0	0.0	Horz	PK	0.0	34.3	74.0	-39.7	EUT Vert, Low Ch
1215.955	42.1	-8.6	1.0	151.0	3.0	0.0	Vert	PK	0.0	33.5	74.0	-40.5	EUT Vert, High Ch

Work Order:	BSTN0453	Date:	02/11/14		
Project:	None	Temperature:	22 °C		
Job Site:	MN04 & MN05	Humidity:	8.1% RH		
Serial Number:	417251	Barometric Pres.:	1032 mbar	Tested by:	Johnny Candelas
EUT:	L331				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	Niharika Varanasi				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz, Psuedorandom.				
Deviations:	None				
Comments:	None				

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

Run #	20	Test Distance (m)	3	Antenna Height(s)	1-4m	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
809.398	16.4	8.0	1.5	324.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
807.045	16.4	8.0	1.5	143.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
809.972	16.3	8.0	3.2	140.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
806.200	16.3	8.0	1.5	33.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Mid Ch
804.645	16.3	8.0	1.5	266.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
804.565	16.3	8.0	1.5	167.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
804.353	16.3	8.0	1.8	14.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.302	16.3	8.0	1.5	180.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Horz, Low Ch
804.295	16.3	8.0	1.5	261.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT on Side, Low Ch
804.030	16.3	8.0	2.6	118.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Horz, Low Ch
1618.955	30.9	-5.8	1.0	114.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, High Ch
1614.640	30.9	-5.8	1.1	309.0	3.0	0.0	Vert	AV	0.0	25.1	54.0	-28.9	EUT Vert, Mid Ch
1614.220	30.9	-5.8	1.0	51.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	EUT Vert, Mid Ch
1620.410	30.8	-5.8	1.0	42.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	EUT Vert, High Ch
1607.840	30.9	-5.9	1.0	171.0	3.0	0.0	Vert	AV	0.0	25.0	54.0	-29.0	EUT Vert, Low Ch
1607.150	30.9	-5.9	1.0	267.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	EUT Vert, Low Ch
1207.005	32.2	-8.7	1.0	101.0	3.0	0.0	Vert	AV	0.0	23.5	54.0	-30.5	EUT Vert, Low Ch
1215.685	31.4	-8.6	1.0	346.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, High Ch
1213.605	31.4	-8.6	1.0	15.0	3.0	0.0	Vert	AV	0.0	22.8	54.0	-31.2	EUT Vert, High Ch
1211.595	31.4	-8.6	1.0	233.0	3.0	0.0	Horz	AV	0.0	22.8	54.0	-31.2	EUT Vert, Mid Ch
1209.705	31.4	-8.7	2.0	180.0	3.0	0.0	Vert	AV	0.0	22.7	54.0	-31.3	EUT Vert, Mid Ch
1207.240	27.2	-8.7	3.3	110.0	3.0	0.0	Horz	AV	0.0	18.5	54.0	-35.5	EUT Vert, Low Ch
1613.775	43.3	-5.8	1.1	309.0	3.0	0.0	Vert	PK	0.0	37.5	74.0	-36.5	EUT Vert, Mid Ch
1609.145	42.4	-5.9	1.0	171.0	3.0	0.0	Vert	PK	0.0	36.5	74.0	-37.5	EUT Vert, Low Ch
1608.010	42.3	-5.9	1.0	267.0	3.0	0.0	Horz	PK	0.0	36.4	74.0	-37.6	EUT Vert, Low Ch
1618.970	42.2	-5.8	1.0	114.0	3.0	0.0	Vert	PK	0.0	36.4	74.0	-37.6	EUT Vert, High Ch
1207.355	44.8	-8.7	1.0	101.0	3.0	0.0	Vert	PK	0.0	36.1	74.0	-37.9	EUT Vert, Low Ch
1206.950	44.8	-8.7	3.3	110.0	3.0	0.0	Horz	PK	0.0	36.1	74.0	-37.9	EUT Vert, Low Ch
1612.035	41.7	-5.9	1.0	51.0	3.0	0.0	Horz	PK	0.0	35.8	74.0	-38.2	EUT Vert, Mid Ch
1618.300	41.3	-5.8	1.0	42.0	3.0	0.0	Horz	PK	0.0	35.5	74.0	-38.5	EUT Vert, High Ch
1210.170	42.4	-8.7	2.0	180.0	3.0	0.0	Vert	PK	0.0	33.7	74.0	-40.3	EUT Vert, Mid Ch
1215.455	42.3	-8.6	1.0	346.0	3.0	0.0	Horz	PK	0.0	33.7	74.0	-40.3	EUT Vert, High Ch
1214.555	42.3	-8.6	1.0	15.0	3.0	0.0	Vert	PK	0.0	33.7	74.0	-40.3	EUT Vert, High Ch
1210.870	42.1	-8.7	1.0	233.0	3.0	0.0	Horz	PK	0.0	33.4	74.0	-40.6	EUT Vert, Mid Ch

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 at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz.

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0453 - 1

BSTN0453 - 2

BSTN0453 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 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
Antenna, Dipole	EMCO	3121C-DB4	ADI	12/21/2012	36 mo
Antenna, Horn	ETS	3115	AJA	5/13/2011	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
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2013	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	8/30/2013	12 mo
MN04 Cables	ESM Cable Corp.	Double Ridge Horn Cables	MNS	8/30/2013	12 mo
Antenna, Horn	ETS	3115	AIB	8/23/2012	36 mo
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	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 highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band receive frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axes, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4). A preamp was used for this test in order to provide sufficient measurement sensitivity.



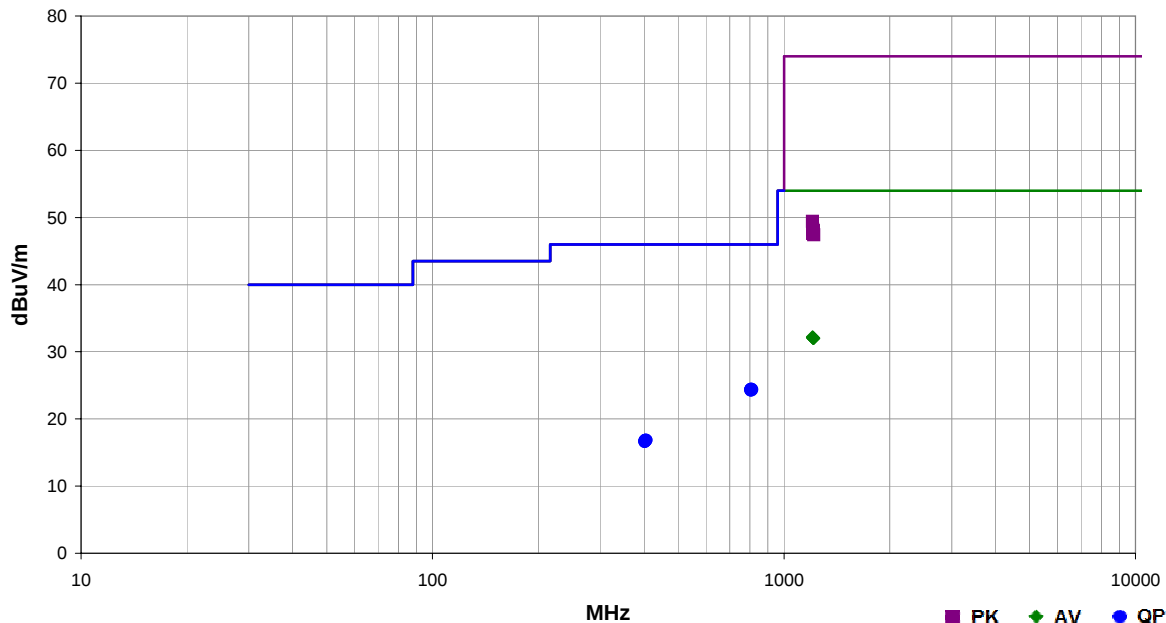
RECEIVER SPURIOUS EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2014.01.02

Work Order:	BSTN0453	Date:	02/10/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	MN04 & MN05	Humidity:	6.8% RH	
Serial Number:	417249	Barometric Pres.:	1034 mbar	
EUT:	L331			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Receiving MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz.			
Deviations:	None			
Comments:	None			

Test Specifications	Class B	Test Method
FCC 15.109:2014		ANSI C63.4:2009

Run #	10	Test Distance (m)	3	Antenna Height(s)	1-4m	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
809.237	16.4	8.0	1.5	289.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
807.135	16.4	8.0	1.5	213.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
806.517	16.4	8.0	1.8	133.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
809.928	16.3	8.0	3.7	233.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
804.533	16.3	8.0	2.3	198.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
804.425	16.3	8.0	1.5	214.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
1206.865	27.1	5.1	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.2	54.0	-21.8	EUT Vert, Low Ch
1206.875	27.0	5.1	1.0	95.0	3.0	0.0	Horz	AV	0.0	32.1	54.0	-21.9	EUT Vert, Low Ch
1213.305	26.9	5.1	1.0	19.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	EUT Vert, High Ch
1213.135	26.9	5.1	1.0	178.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0	EUT Vert, High Ch
1211.220	26.9	5.1	1.5	152.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0	EUT Vert, Mid Ch
1210.430	26.9	5.1	1.0	296.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	EUT Vert, Mid Ch
1206.935	44.3	5.1	1.0	0.0	3.0	0.0	Vert	PK	0.0	49.4	74.0	-24.6	EUT Vert, Low Ch
1207.615	43.1	5.1	1.0	95.0	3.0	0.0	Horz	PK	0.0	48.2	74.0	-25.8	EUT Vert, Low Ch
1214.505	42.9	5.1	1.0	178.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	EUT Vert, High Ch
1209.420	42.5	5.1	1.5	152.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	EUT Vert, Mid Ch
1209.425	42.5	5.1	1.0	296.0	3.0	0.0	Vert	PK	0.0	47.6	74.0	-26.4	EUT Vert, Mid Ch
1215.320	42.3	5.1	1.0	19.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	EUT Vert, High Ch
405.027	16.3	0.5	2.7	153.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, High Ch
404.377	16.3	0.5	4.0	321.0	3.0	0.0	Vert	QP	0.0	16.8	46.0	-29.2	EUT Vert, High Ch
403.438	16.3	0.5	1.5	75.0	3.0	0.0	Vert	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
403.160	16.3	0.5	3.9	274.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
401.935	16.2	0.4	1.8	68.0	3.0	0.0	Vert	QP	0.0	16.6	46.0	-29.4	EUT Vert, Low Ch
401.738	16.2	0.4	1.5	350.0	3.0	0.0	Horz	QP	0.0	16.6	46.0	-29.4	EUT Vert, Low Ch



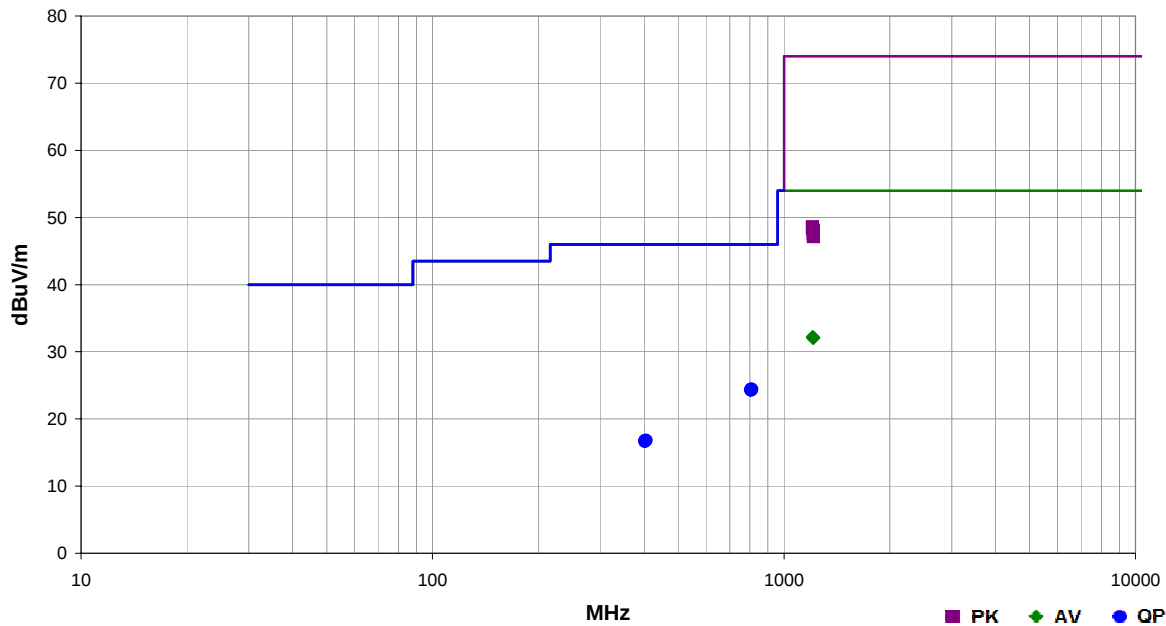
RECEIVER SPURIOUS EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2014.01.02

Work Order:	BSTN0453	Date:	02/10/14	
Project:	None	Temperature:	22.7 °C	
Job Site:	MN04 & MN05	Humidity:	6.8% RH	
Serial Number:	417250	Barometric Pres.:	1034 mbar	
EUT:	L331			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Receiving MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz.			
Deviations:	None			
Comments:	None			

Test Specifications	Class B	Test Method
FCC 15.109:2014		ANSI C63.4:2009

Run #	16	Test Distance (m)	3	Antenna Height(s)	1-4m	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
809.848	16.4	8.0	1.5	192.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
807.052	16.4	8.0	1.5	345.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
806.852	16.4	8.0	2.8	117.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
810.200	16.3	8.0	2.1	342.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, High Ch
804.447	16.3	8.0	1.5	209.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
803.868	16.3	8.0	1.5	225.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
1207.070	27.1	5.1	1.2	203.0	3.0	0.0	Vert	AV	0.0	32.2	54.0	-21.8	EUT Vert, Low Ch
1207.040	27.1	5.1	3.3	122.0	3.0	0.0	Horz	AV	0.0	32.2	54.0	-21.8	EUT Vert, Low Ch
1213.855	27.0	5.1	1.0	130.0	3.0	0.0	Horz	AV	0.0	32.1	54.0	-21.9	EUT Vert, High Ch
1213.185	27.0	5.1	1.0	172.0	3.0	0.0	Vert	AV	0.0	32.1	54.0	-21.9	EUT Vert, High Ch
1211.565	26.9	5.1	1.0	19.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	EUT Vert, Mid Ch
1210.915	26.9	5.1	1.5	353.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0	EUT Vert, Mid Ch
1205.090	43.5	5.1	1.2	203.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	EUT Vert, Low Ch
1207.110	43.3	5.1	3.3	122.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	EUT Vert, Low Ch
1211.590	43.0	5.1	1.0	19.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	EUT Vert, Mid Ch
1213.675	42.9	5.1	1.0	172.0	3.0	0.0	Vert	PK	0.0	48.0	74.0	-26.0	EUT Vert, High Ch
1210.215	42.4	5.1	1.5	353.0	3.0	0.0	Horz	PK	0.0	47.5	74.0	-26.5	EUT Vert, Mid Ch
1213.810	42.0	5.1	1.0	130.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	EUT Vert, High Ch
405.165	16.3	0.5	1.5	143.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, High Ch
403.500	16.3	0.5	1.5	92.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
403.005	16.3	0.5	1.5	53.0	3.0	0.0	Vert	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
401.883	16.3	0.4	2.0	262.0	3.0	0.0	Horz	QP	0.0	16.7	46.0	-29.3	EUT Vert, Low Ch
404.390	16.2	0.5	1.4	324.0	3.0	0.0	Vert	QP	0.0	16.7	46.0	-29.3	EUT Vert, High Ch
401.980	16.2	0.4	1.5	226.0	3.0	0.0	Vert	QP	0.0	16.6	46.0	-29.4	EUT Vert, Low Ch



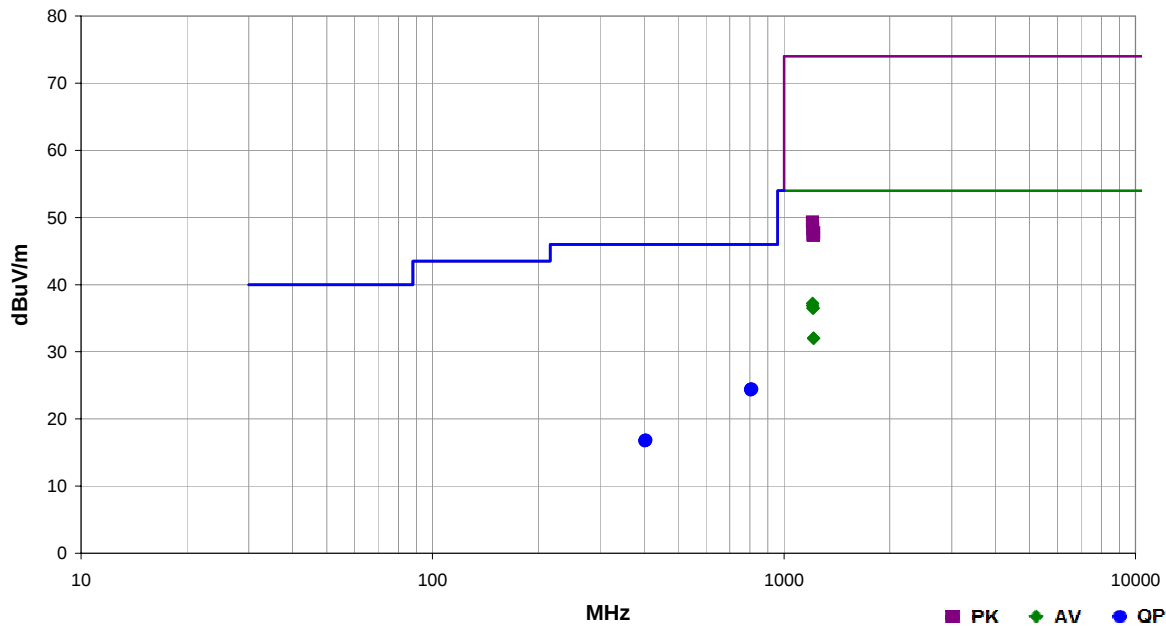
RECEIVER SPURIOUS EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2014.01.02

Work Order:	BSTN0453	Date:	02/11/14	
Project:	None	Temperature:	22 °C	
Job Site:	MN04 & MN05	Humidity:	8.1% RH	
Serial Number:	417251	Barometric Pres.:	1032 mbar	
EUT:	L331			
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	Niharika Varanasi			
EUT Power:	Battery			
Operating Mode:	Receiving MICS at Low, Mid, High Channel: 402.15 MHz, 403.35 MHz, & 404.85 MHz.			
Deviations:	None			
Comments:	None			

Test Specifications	Class B	Test Method
FCC 15.109:2014		ANSI C63.4:2009

Run #	23	Test Distance (m)	3	Antenna Height(s)	1-4m	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
1207.060	32.1	5.1	1.0	219.0	3.0	0.0	Vert	AV	0.0	37.2	54.0	-16.8	EUT Vert, Low Ch
1206.740	31.8	5.1	4.0	10.0	3.0	0.0	Horz	AV	0.0	36.9	54.0	-17.1	EUT Vert, Low Ch
1210.290	31.4	5.1	1.0	190.0	3.0	0.0	Vert	AV	0.0	36.5	54.0	-17.5	EUT Vert, Mid Ch
1209.645	31.4	5.1	1.0	158.0	3.0	0.0	Horz	AV	0.0	36.5	54.0	-17.5	EUT Vert, Mid Ch
809.950	16.4	8.0	1.5	125.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
809.547	16.4	8.0	1.5	198.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, High Ch
807.190	16.4	8.0	4.0	227.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
806.633	16.4	8.0	1.5	156.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, Mid Ch
804.532	16.4	8.0	1.5	85.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Vert, Low Ch
804.432	16.3	8.0	1.5	34.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Vert, Low Ch
1213.205	26.9	5.1	1.9	203.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0	EUT Vert, High Ch
1213.100	26.9	5.1	1.0	352.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	EUT Vert, High Ch
1206.710	44.2	5.1	1.0	219.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	EUT Vert, Low Ch
1207.465	43.2	5.1	4.0	10.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	EUT Vert, Low Ch
1214.960	42.6	5.1	1.9	203.0	3.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	EUT Vert, High Ch
1209.895	42.4	5.1	1.0	158.0	3.0	0.0	Horz	PK	0.0	47.5	74.0	-26.5	EUT Vert, Mid Ch
1210.850	42.3	5.1	1.0	190.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	EUT Vert, Mid Ch
1213.705	42.2	5.1	1.0	352.0	3.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	EUT Vert, High Ch
404.710	16.3	0.5	3.3	316.0	3.0	0.0	Vert	QP	0.0	16.8	46.0	-29.2	EUT Vert, High Ch
404.437	16.3	0.5	1.5	279.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, High Ch
403.767	16.3	0.5	2.6	223.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
403.550	16.3	0.5	1.5	124.0	3.0	0.0	Vert	QP	0.0	16.8	46.0	-29.2	EUT Vert, Mid Ch
402.633	16.3	0.5	1.5	203.0	3.0	0.0	Horz	QP	0.0	16.8	46.0	-29.2	EUT Vert, Low Ch
402.080	16.3	0.4	1.5	168.0	3.0	0.0	Vert	QP	0.0	16.7	46.0	-29.3	EUT Vert, Low Ch

EMISSION 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
Near Field Probe Set	ETS	7405	IPO	NCR	0 mo
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	24 mo

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.



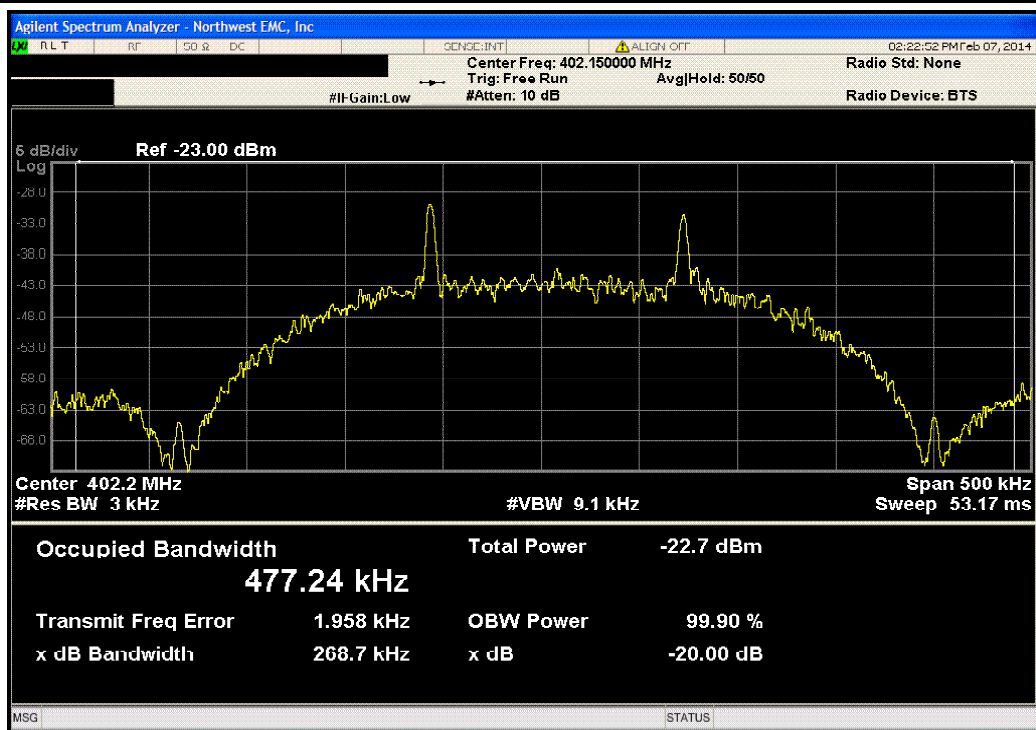
EMISSION BANDWIDTH

XMit 2013.08.15
PsaTx 2013.10.23

EUT: L331		Work Order: BSTN0453	
Serial Number: 417249, 417250, 417251		Date: 02/07/14	
Customer: Boston Scientific Corporation		Temperature: 23.5°C	
Attendees: Niharika Varanasi		Humidity: 8%	
Project: None		Barometric Pres.: 1023.3	
Tested by: Trevor Buls		Power: Battery	
		Job Site: MN05	
TEST SPECIFICATIONS			
FCC 95:2014		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1, 2, 3	Signature <i>Trevor Buls</i>	
		Value	Limit
			Result
SN: 417249			
Low Channel, 402.15 MHz		268.716 kHz	≤ 300 kHz
Mid Channel, 403.35 MHz		280.534 kHz	≤ 300 kHz
High Channel, 404.85 MHz		280.945 kHz	≤ 300 kHz
SN: 417250			
Low Channel, 402.15 MHz		287.679 kHz	≤ 300 kHz
Mid Channel, 403.35 MHz		275.414 kHz	≤ 300 kHz
High Channel, 404.85 MHz		277.047 kHz	≤ 300 kHz
SN: 417251			
Low Channel, 402.15 MHz		265.243 kHz	≤ 300 kHz
Mid Channel, 403.35 MHz		277.975 kHz	≤ 300 kHz
High Channel, 404.85 MHz		284.928 kHz	≤ 300 kHz

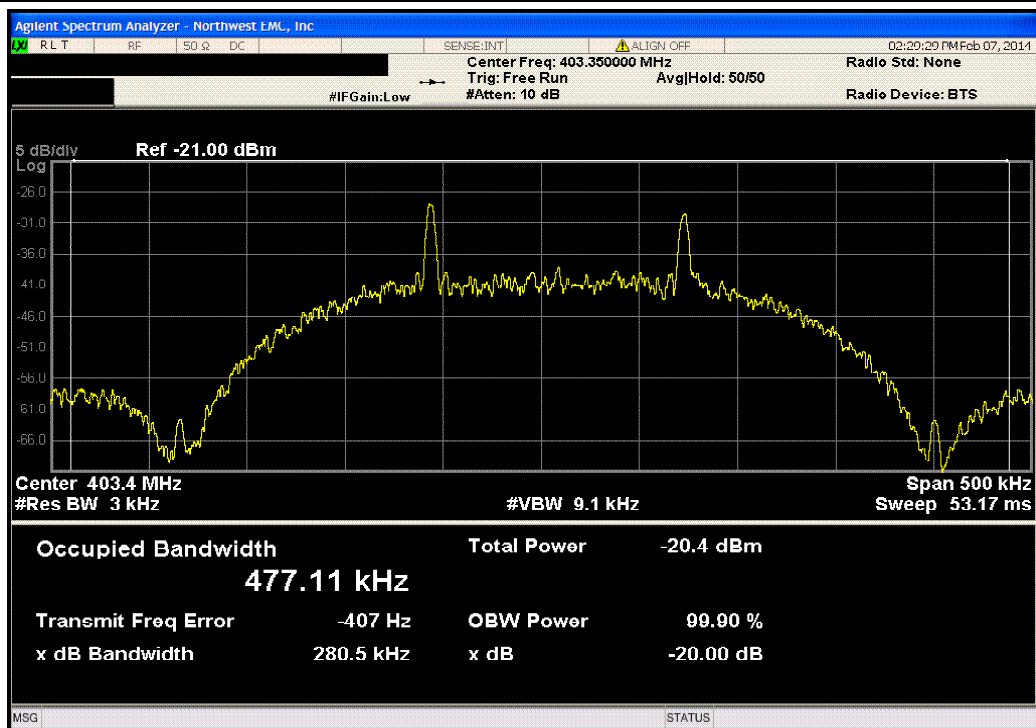
SN: 417249, Low Channel, 402.15 MHz

				Value	Limit	Result
				268.716 kHz	≤ 300 kHz	Pass



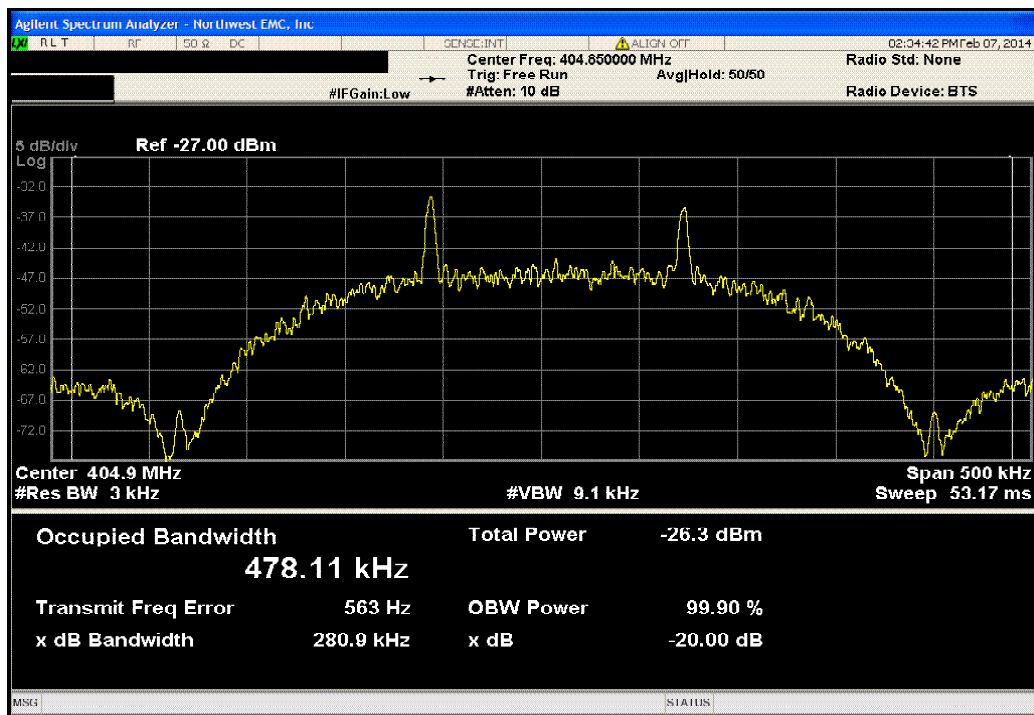
SN: 417249, Mid Channel, 403.35 MHz

				Value	Limit	Result
				280.534 kHz	≤ 300 kHz	Pass



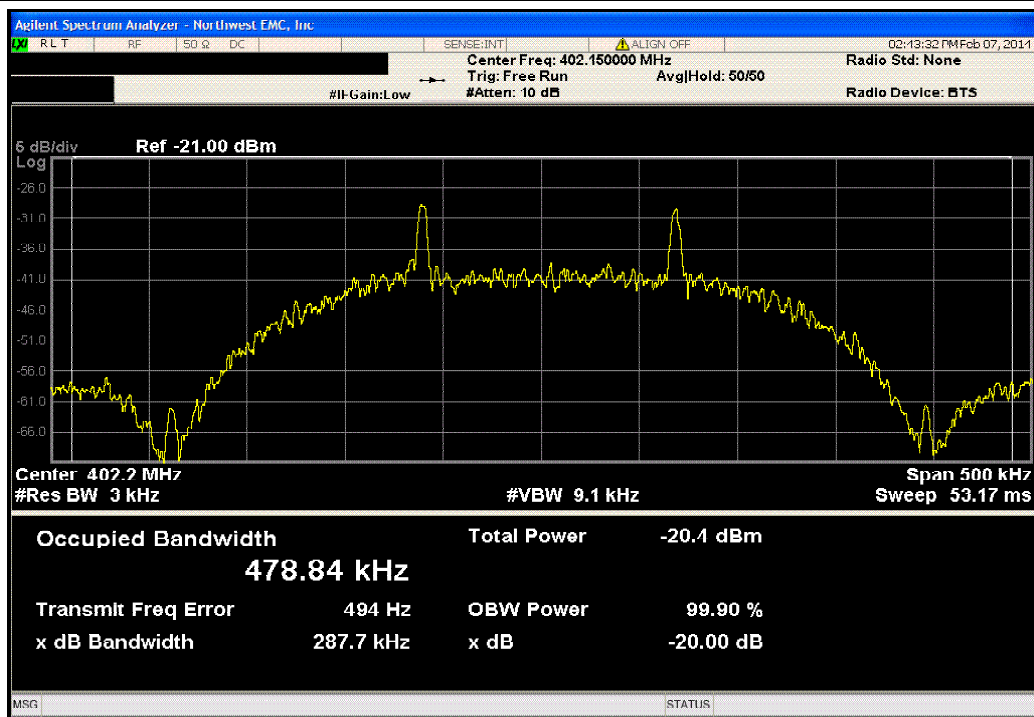
SN: 417249, High Channel, 404.85 MHz

	Value	Limit	Result
	280.945 kHz	≤ 300 kHz	Pass

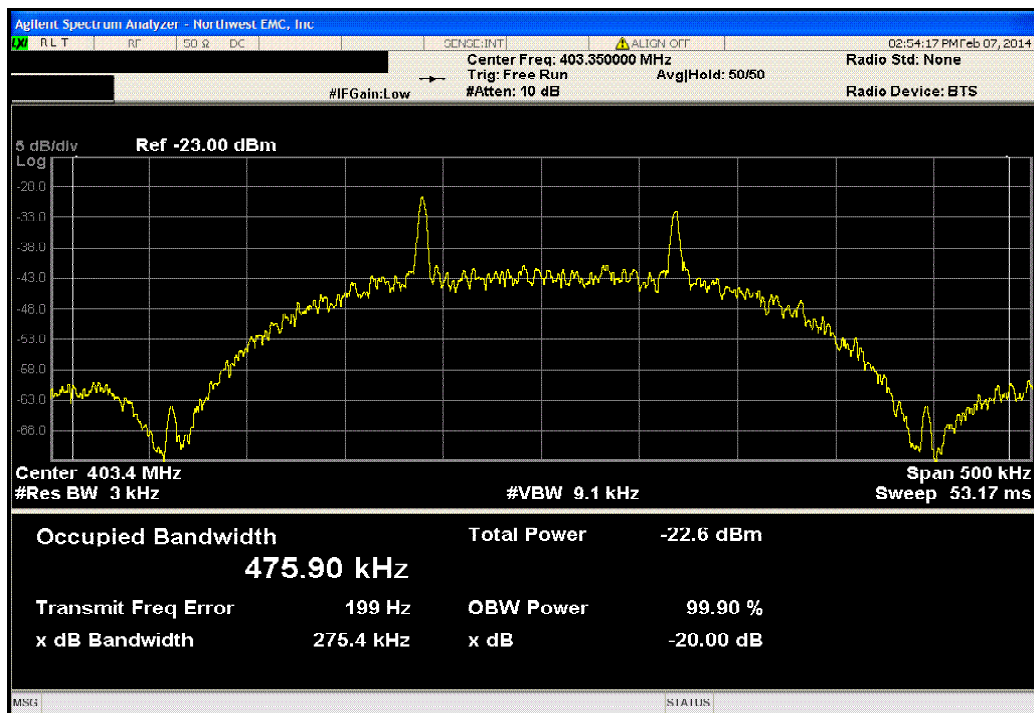


SN: 417250, Low Channel, 402.15 MHz

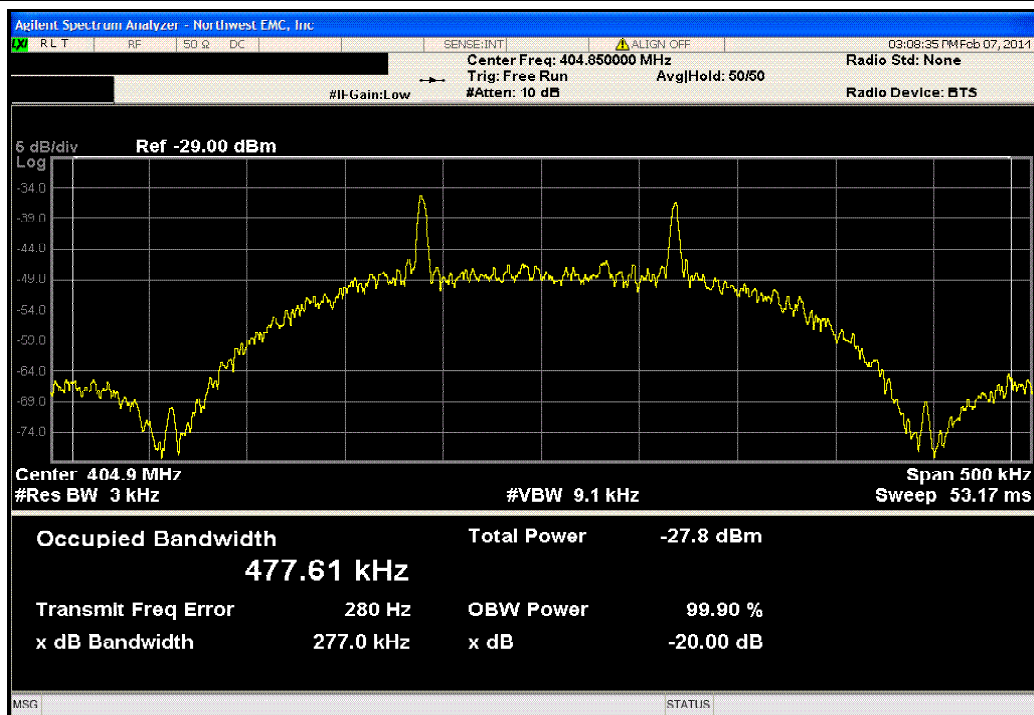
	Value	Limit	Result
	287.679 kHz	≤ 300 kHz	Pass



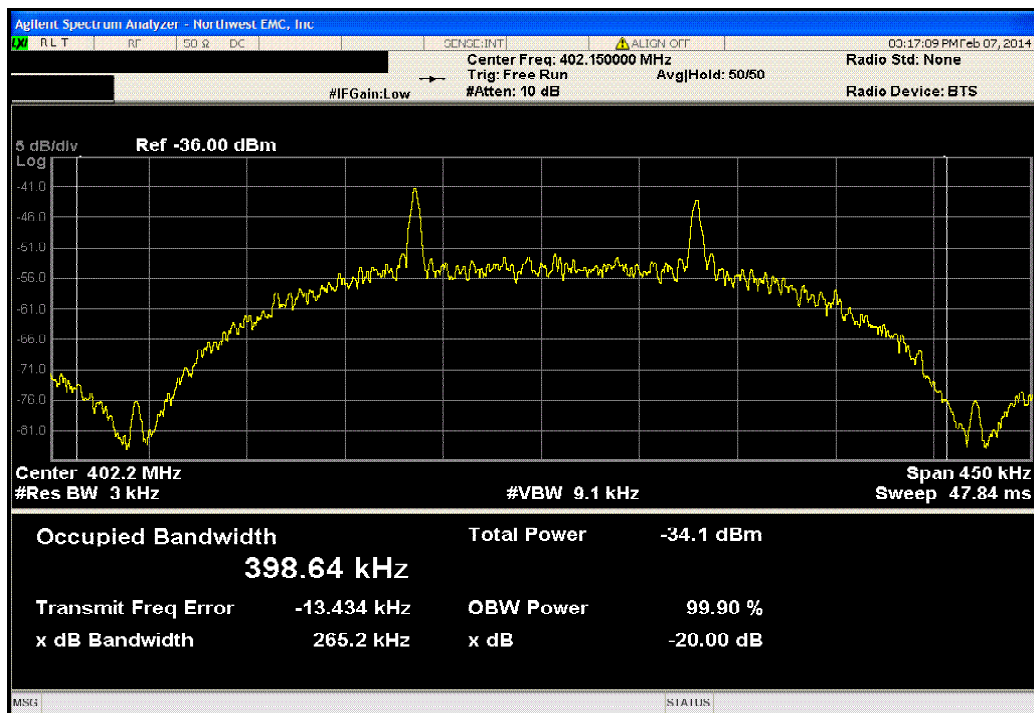
SN: 417250, Mid Channel, 403.35 MHz						
				Value	Limit	Result
				275.414 kHz	≤ 300 kHz	Pass



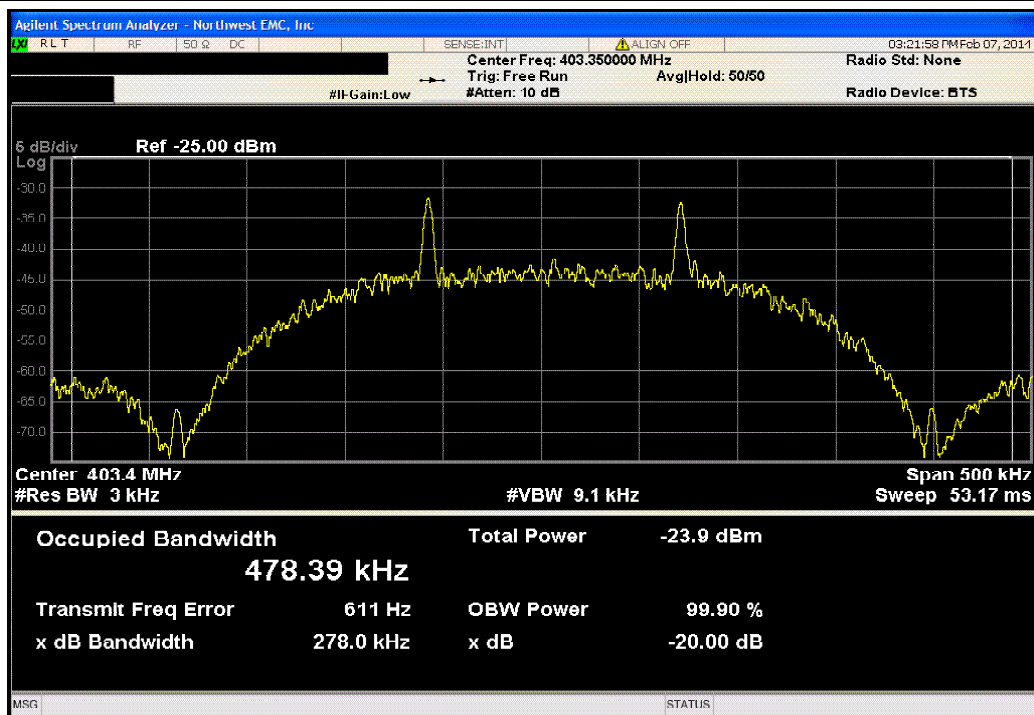
SN: 417250, High Channel, 404.85 MHz						
				Value	Limit	Result
				277.047 kHz	≤ 300 kHz	Pass



SN: 417251, Low Channel, 402.15 MHz			
	Value	Limit	Result
	265.243 kHz	≤ 300 kHz	Pass

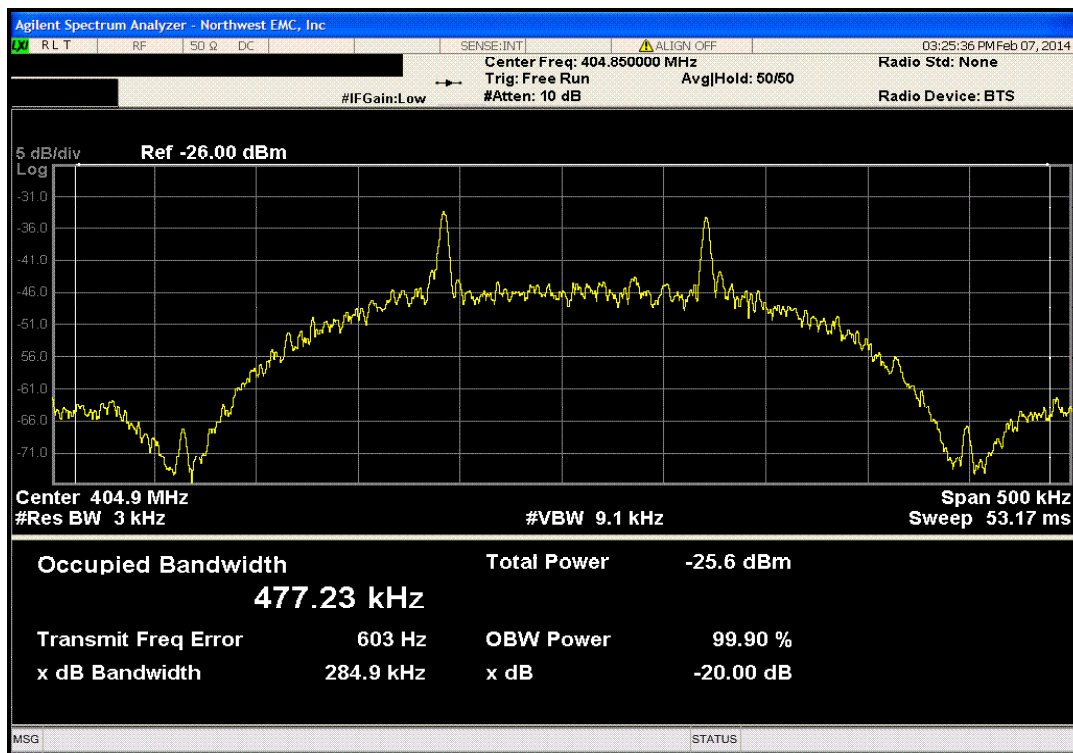


SN: 417251, Mid Channel, 403.35 MHz			
	Value	Limit	Result
	277.975 kHz	≤ 300 kHz	Pass



SN: 417251, High Channel, 404.85 MHz

	Value	Limit	Result
	284.928 kHz	≤ 300 kHz	Pass



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
Near Field Probe Set	ETS	7405	IPO	NCR	0 mo
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	24 mo

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

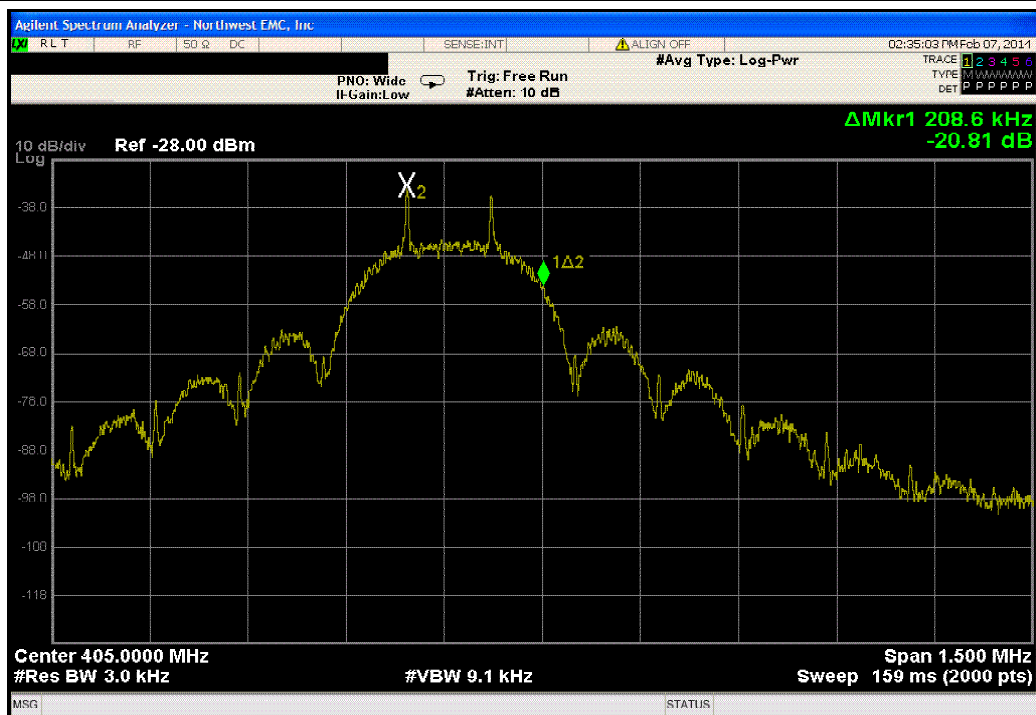
XMit 2013.08.15
PsaTx 2013.10.23

EUT: L331		Work Order: BSTN0453	
Serial Number: 417249, 417250, 417251		Date: 02/07/14	
Customer: Boston Scientific Corporation		Temperature: 23.5°C	
Attendees: Niharika Varanasi		Humidity: 8%	
Project: None		Barometric Pres.: 1023.3	
Tested by: Trevor Buls		Power: Battery	
		Job Site: MN05	
TEST SPECIFICATIONS			
FCC 95:2014		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1, 2, 3	Signature <i>Trevor Buls</i>	
		Value	Limit
SN: 417249			Result
Low Channel, 402.15 MHz		-24.65 dBc	≤ -20 dBc
High Channel, 404.85 MHz		-20.81 dBc	≤ -20 dBc
SN: 417250			Result
Low Channel, 402.15 MHz		-24.46 dBc	≤ -20 dBc
High Channel, 404.85 MHz		-22.38 dBc	≤ -20 dBc
SN: 417251			Result
Low Channel, 402.15 MHz		-24.33 dBc	≤ -20 dBc
High Channel, 404.85 MHz		-20.76 dBc	≤ -20 dBc

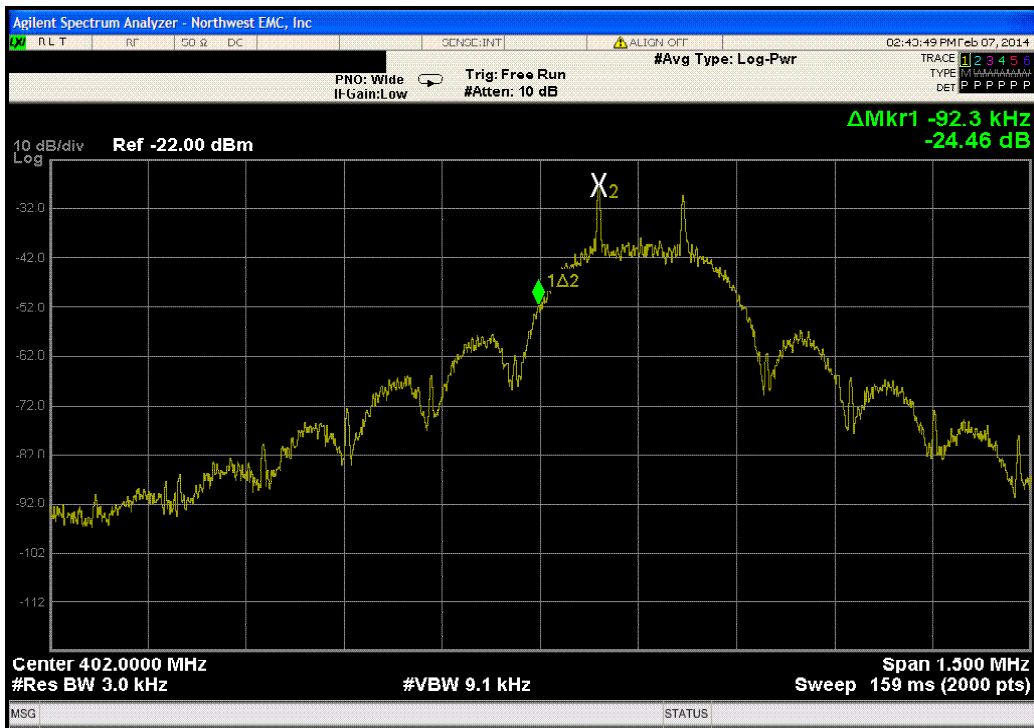
SN: 417249, Low Channel, 402.15 MHz						
				Value	Limit	Result
				-24.65 dBc	≤ -20 dBc	Pass



SN: 417249, High Channel, 404.85 MHz						
				Value	Limit	Result
				-20.81 dBc	≤ -20 dBc	Pass



SN: 417250, Low Channel, 402.15 MHz						
				Value	Limit	Result
				-24.46 dBc	≤ -20 dBc	Pass



SN: 417250, High Channel, 404.85 MHz						
				Value	Limit	Result
				-22.38 dBc	≤ -20 dBc	Pass



SN: 417251, Low Channel, 402.15 MHz

				Value	Limit	Result
				-24.33 dBc	≤ -20 dBc	Pass



SN: 417251, High Channel, 404.85 MHz

				Value	Limit	Result
				-20.76 dBc	≤ -20 dBc	Pass



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
Temp./Humidity 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
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Attenuator, 20 dB 'SMA'	Fairview Microwave	SA18S5W-20	RFX	8/16/2013	12
Multimeter	Fluke	114	MMU	7/8/2011	36
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AFG	5/16/2012	24

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied from 3.2VDC to 1.65VDC, nominal voltage is 2.7VDC. A DC lab supply was used to vary the supply voltage.

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (+25°, 37°C and +45° C).

The Frequency Stability was measured using a direct connection between the unit and a spectrum analyzer. 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 cable connected the unit to the spectrum analyzer outside of the chamber.



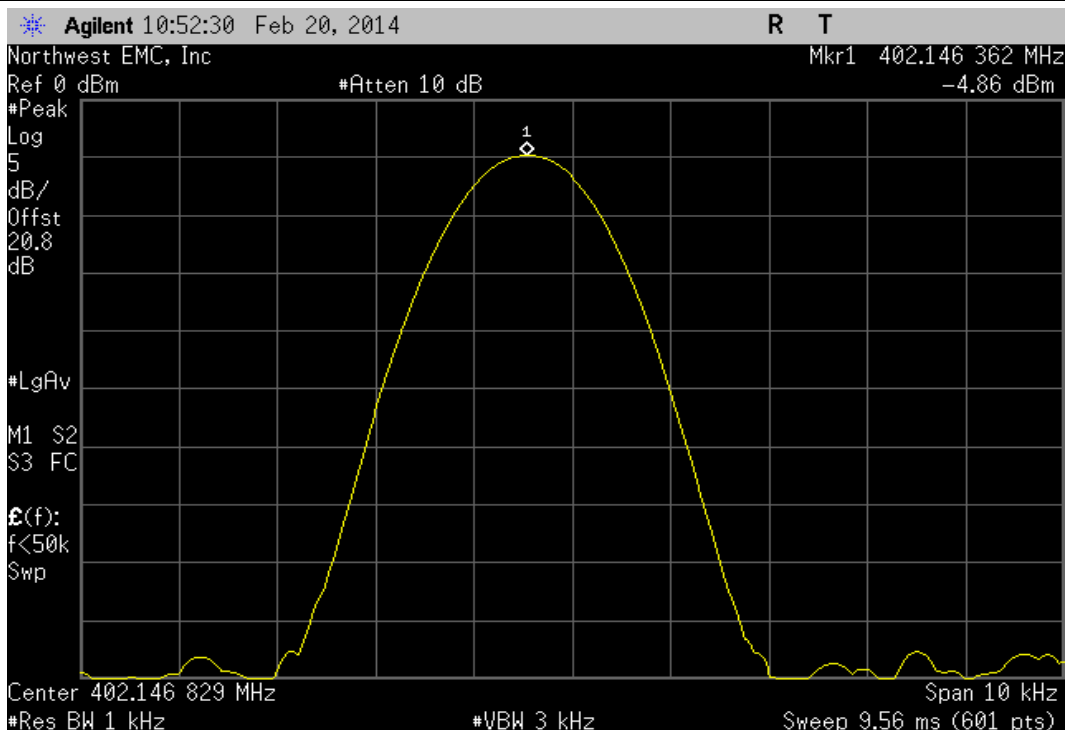
FREQUENCY STABILITY

XMit 2013.08.15
PsaTx 2013.10.23

EUT: Hybrid			Work Order: BSTN0453		
Serial Number: 44817004, 44817013, 44817017			Date: 02/20/14		
Customer: Boston Scientific Corporation			Temperature: 26.2 °C		
Attendees: None			Humidity: 18%		
Project: None			Barometric Pres.: 1001		
Tested by: Johnny Candelas		Power: Battery	Job Site: MN08		
TEST SPECIFICATIONS		Test Method			
FCC 95:2014		ANSI/TIA/EIA-603-C-2004			
COMMENTS					
None					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	10, 11, 12	Signature 			
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm) Result
SN: 44817004					
Nominal Voltage 2.7VDC					
Low Channel, 402.15 MHz		402.146362	402.15	9.1	100 Pass
Mid Channel, 403.35 MHz		403.346479	403.35	8.7	100 Pass
High Channel, 404.85 MHz		404.846212	404.85	9.4	100 Pass
Extreme Voltage 3.2VDC					
Low Channel, 402.15 MHz		402.146362	402.15	9.1	100 Pass
Mid Channel, 403.35 MHz		403.346446	403.35	8.8	100 Pass
High Channel, 404.85 MHz		404.846245	404.85	9.3	100 Pass
Extreme Voltage 1.65VDC					
Low Channel, 402.15 MHz		402.146362	402.15	9.1	100 Pass
Mid Channel, 403.35 MHz		403.346462	403.35	8.8	100 Pass
High Channel, 404.85 MHz		404.846247	404.85	9.3	100 Pass
Extreme Temperature +45°C					
Low Channel, 402.15 MHz		402.145428	402.15	11.4	100 Pass
Mid Channel, 403.35 MHz		403.34556	403.35	11	100 Pass
High Channel, 404.85 MHz		404.845293	404.85	11.6	100 Pass
Extreme Temperature +25°C					
Low Channel, 402.15 MHz		402.147147	402.15	7.1	100 Pass
Mid Channel, 403.35 MHz		403.347266	403.35	6.8	100 Pass
High Channel, 404.85 MHz		404.847014	404.85	7.4	100 Pass
SN: 44817013					
Nominal Voltage 2.7VDC					
Low Channel, 402.15 MHz		402.152456	402.15	6.1	100 Pass
Mid Channel, 403.35 MHz		403.35259	403.35	6.4	100 Pass
High Channel, 404.85 MHz		404.852376	404.85	5.9	100 Pass
Extreme Voltage 3.2VDC					
Low Channel, 402.15 MHz		402.152439	402.15	6.1	100 Pass
Mid Channel, 403.35 MHz		403.352591	403.35	6.4	100 Pass
High Channel, 404.85 MHz		404.85236	404.85	5.8	100 Pass
Extreme Voltage 1.65VDC					
Low Channel, 402.15 MHz		402.152422	402.15	6	100 Pass
Mid Channel, 403.35 MHz		403.352592	403.35	6.4	100 Pass
High Channel, 404.85 MHz		404.852359	404.85	5.8	100 Pass
Extreme Temperature +45°C					
Low Channel, 402.15 MHz		402.15122	402.15	3	100 Pass
Mid Channel, 403.35 MHz		403.351371	403.35	3.4	100 Pass
High Channel, 404.85 MHz		404.851139	404.85	2.8	100 Pass
Extreme Temperature +25°C					
Low Channel, 402.15 MHz		402.15349	402.15	8.7	100 Pass
Mid Channel, 403.35 MHz		403.353626	403.35	9	100 Pass
High Channel, 404.85 MHz		404.853444	404.85	8.5	100 Pass
SN: 44817017					
Nominal Voltage 2.7VDC					
Low Channel, 402.15 MHz		402.151704	402.15	4.2	100 Pass
Mid Channel, 403.35 MHz		403.351856	403.35	4.6	100 Pass
High Channel, 404.85 MHz		404.851624	404.85	4	100 Pass
Extreme Voltage 3.2VDC					
Low Channel, 402.15 MHz		402.151738	402.15	4.3	100 Pass
Mid Channel, 403.35 MHz		403.351889	403.35	4.7	100 Pass
High Channel, 404.85 MHz		404.85164	404.85	4.1	100 Pass
Extreme Voltage 1.65VDC					
Low Channel, 402.15 MHz		402.151721	402.15	4.3	100 Pass
Mid Channel, 403.35 MHz		403.351839	403.35	4.6	100 Pass
High Channel, 404.85 MHz		404.851639	404.85	4.1	100 Pass
Extreme Temperature +45°C					
Low Channel, 402.15 MHz		402.150553	402.15	1.4	100 Pass
Mid Channel, 403.35 MHz		403.350704	403.35	1.8	100 Pass
High Channel, 404.85 MHz		404.850454	404.85	1.1	100 Pass
Extreme Temperature +25°C					
Low Channel, 402.15 MHz		402.152722	402.15	6.8	100 Pass
Mid Channel, 403.35 MHz		403.352875	403.35	7.1	100 Pass
High Channel, 404.85 MHz		404.85266	404.85	6.6	100 Pass

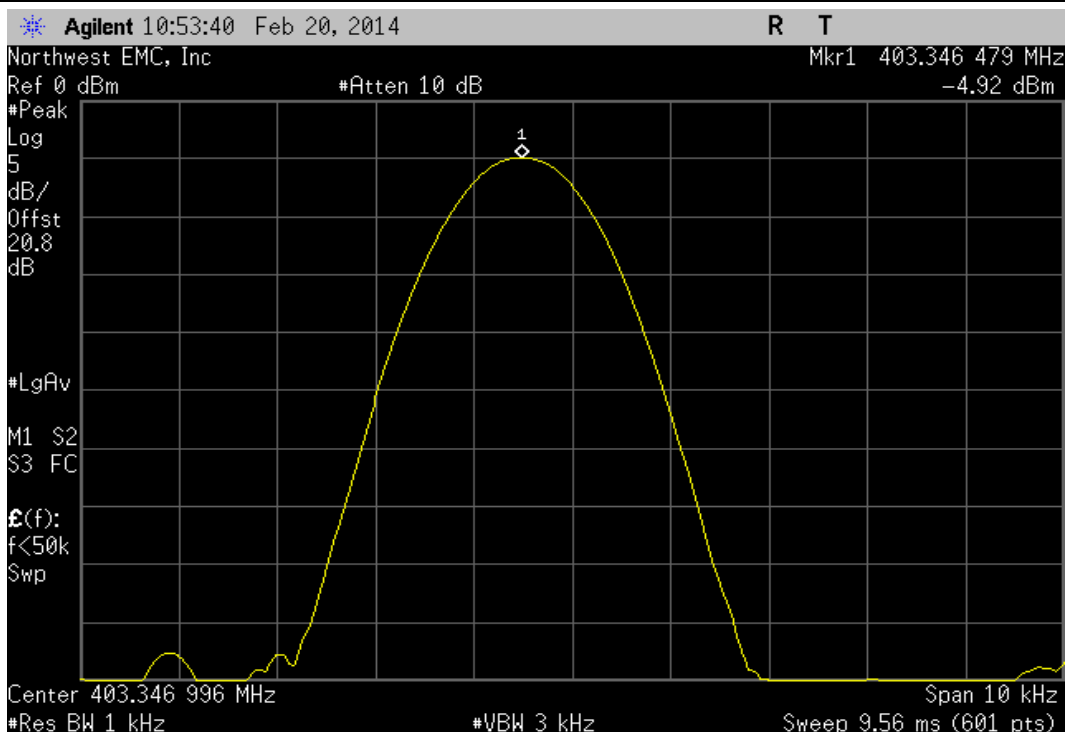
SN: 44817004, Nominal Voltage 2.7VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.146362	402.15	9.1	100	Pass

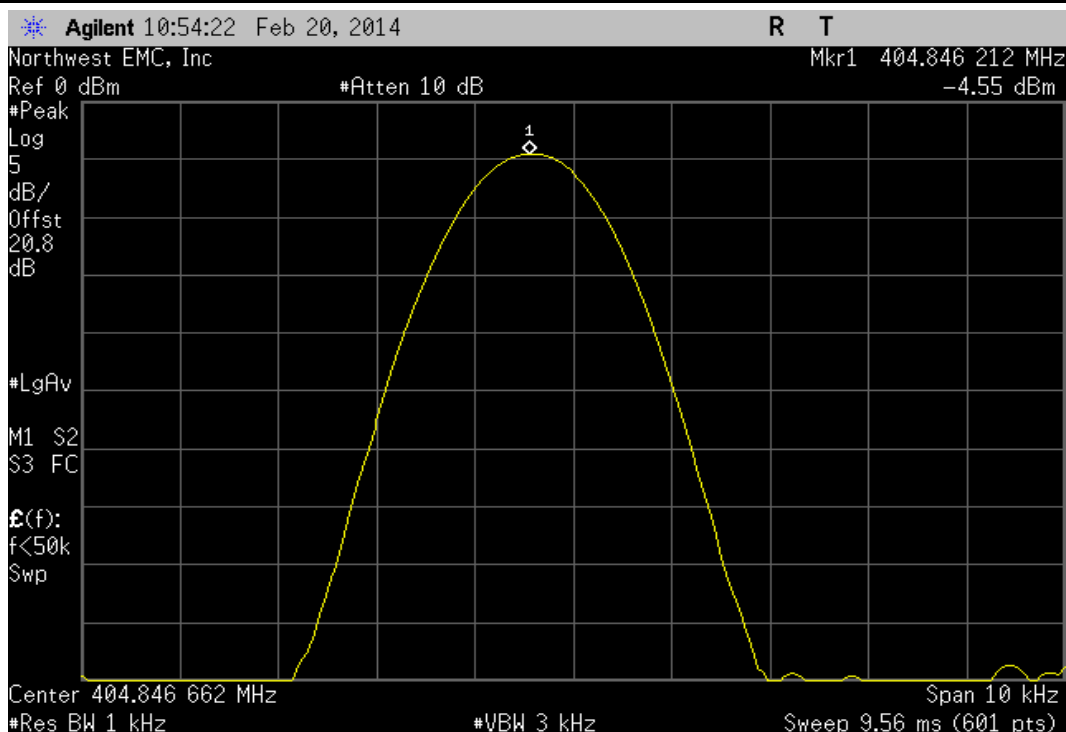


SN: 44817004, Nominal Voltage 2.7VDC, Mid Channel, 403.35 MHz

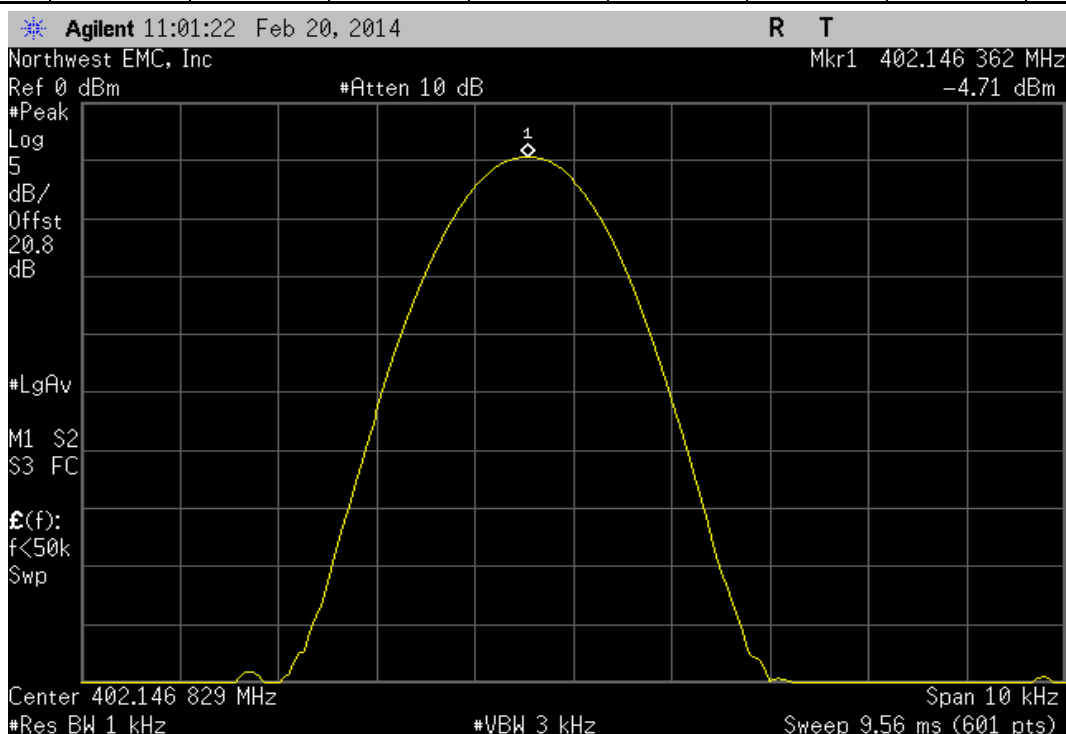
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.346479	403.35	8.7	100	Pass



SN: 44817004, Nominal Voltage 2.7VDC, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.846212	404.85	9.4	100	Pass	

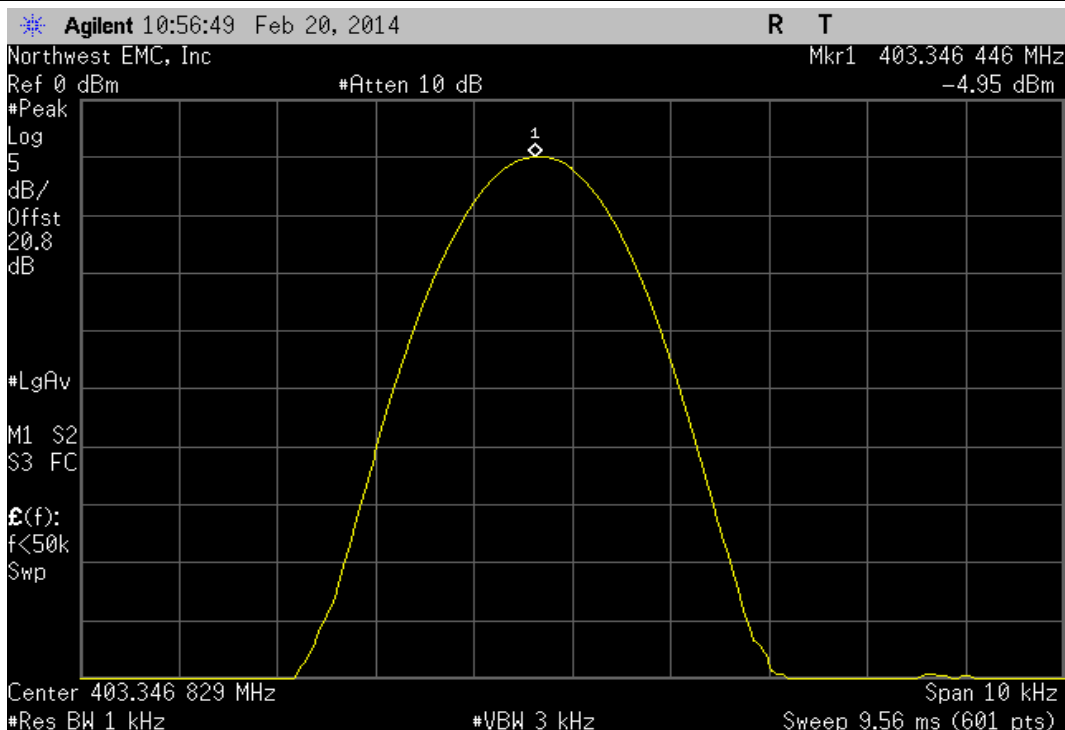


SN: 44817004, Extreme Voltage 3.2VDC, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.146362	402.15	9.1	100	Pass	



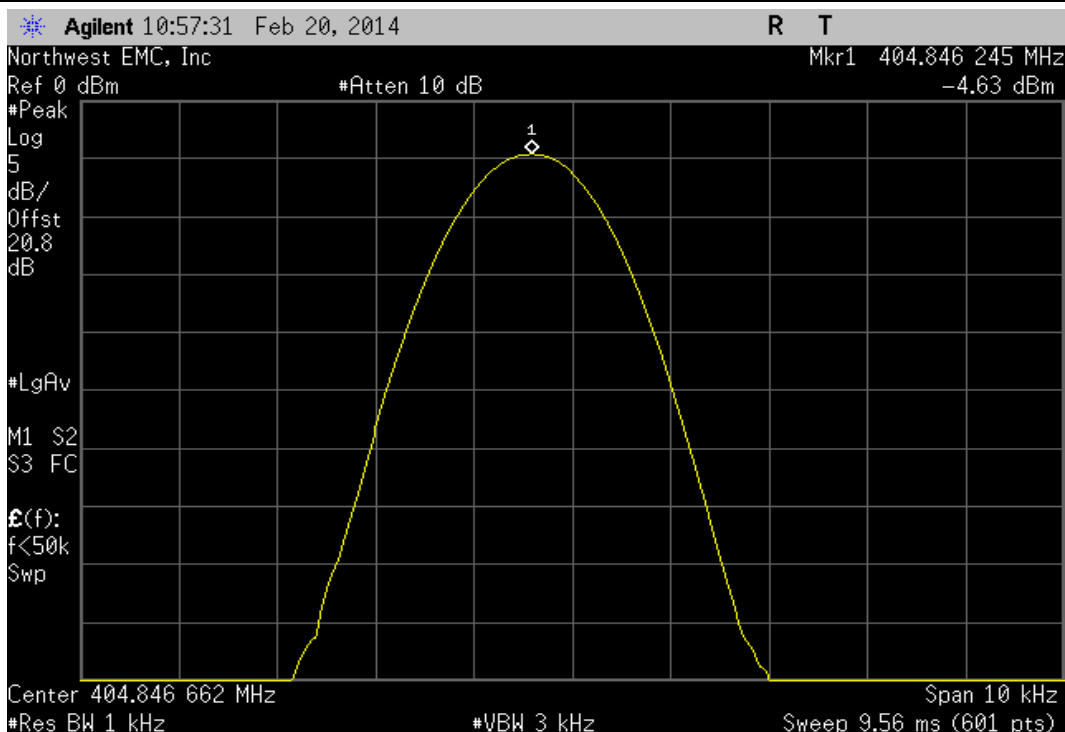
SN: 44817004, Extreme Voltage 3.2VDC, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.346446	403.35	8.8	100	Pass



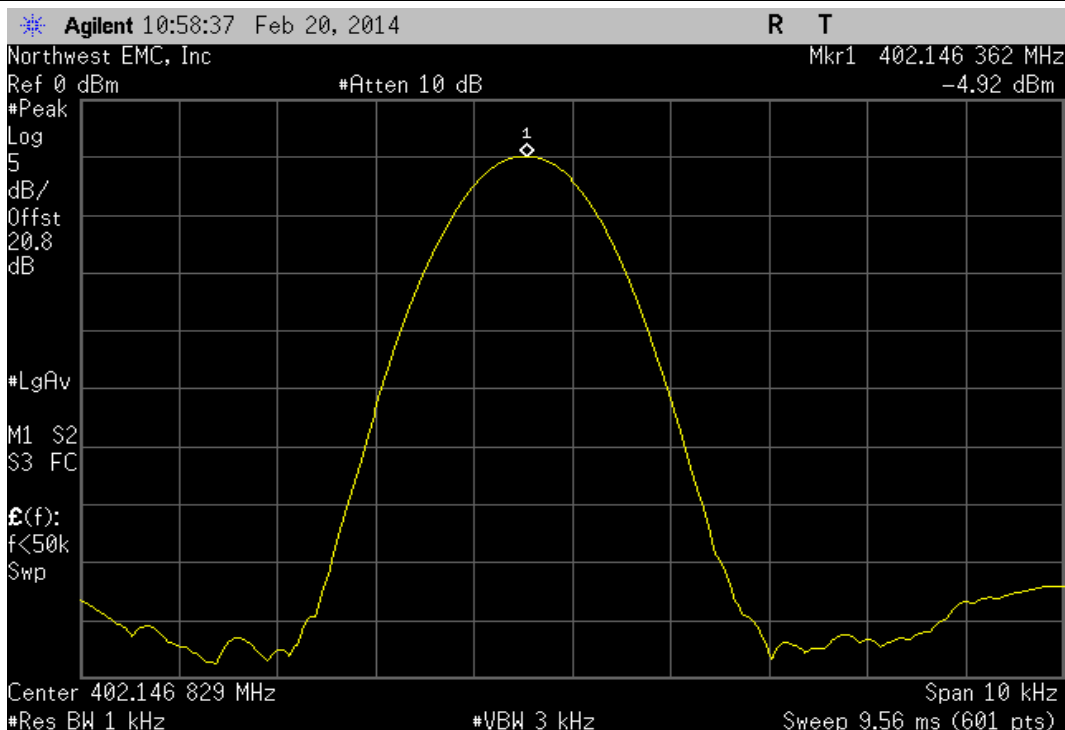
SN: 44817004, Extreme Voltage 3.2VDC, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.846245	404.85	9.3	100	Pass



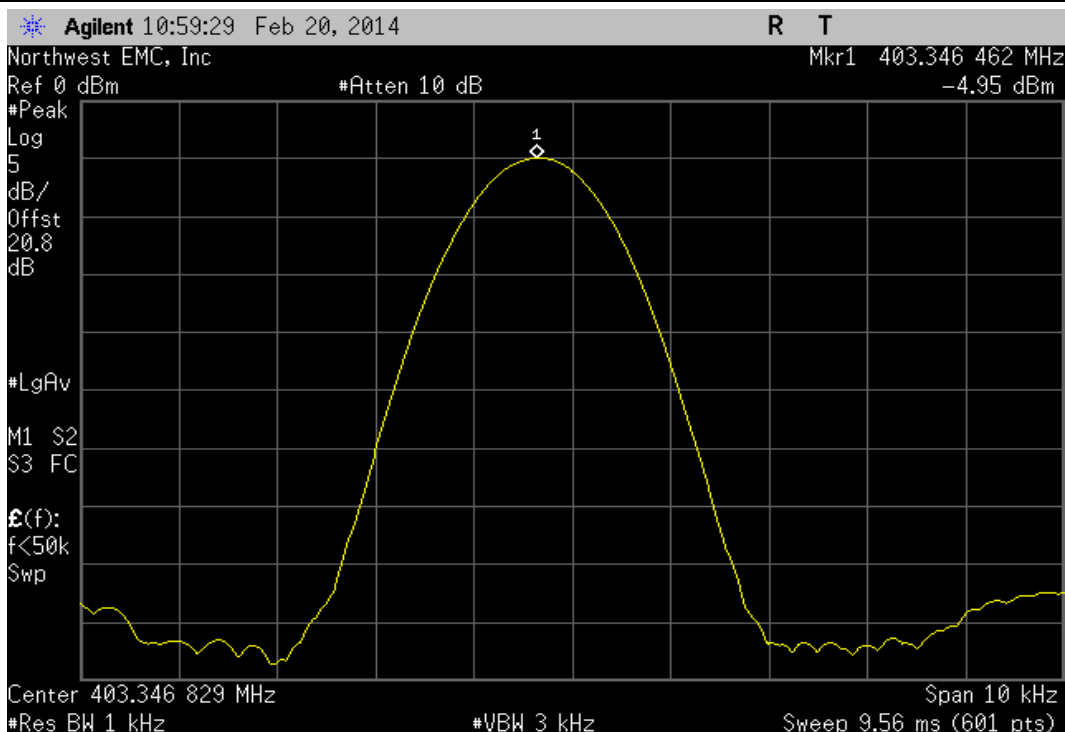
SN: 44817004, Extreme Voltage 1.65VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.146362	402.15	9.1	100	Pass

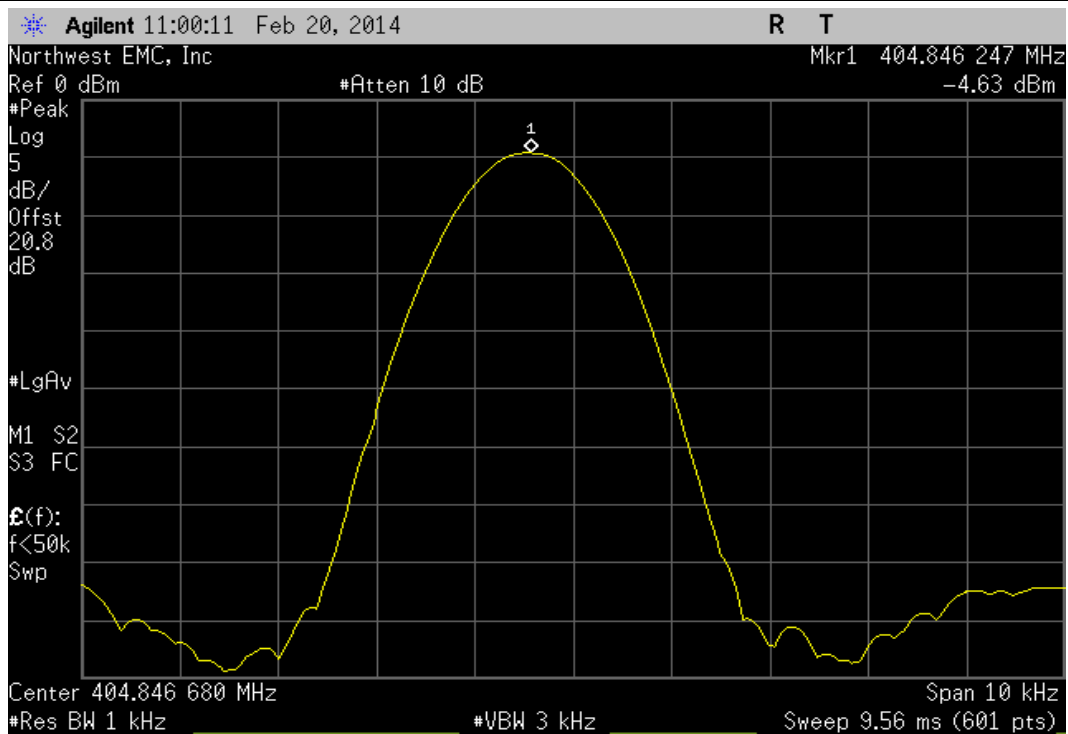


SN: 44817004, Extreme Voltage 1.65VDC, Mid Channel, 403.35 MHz

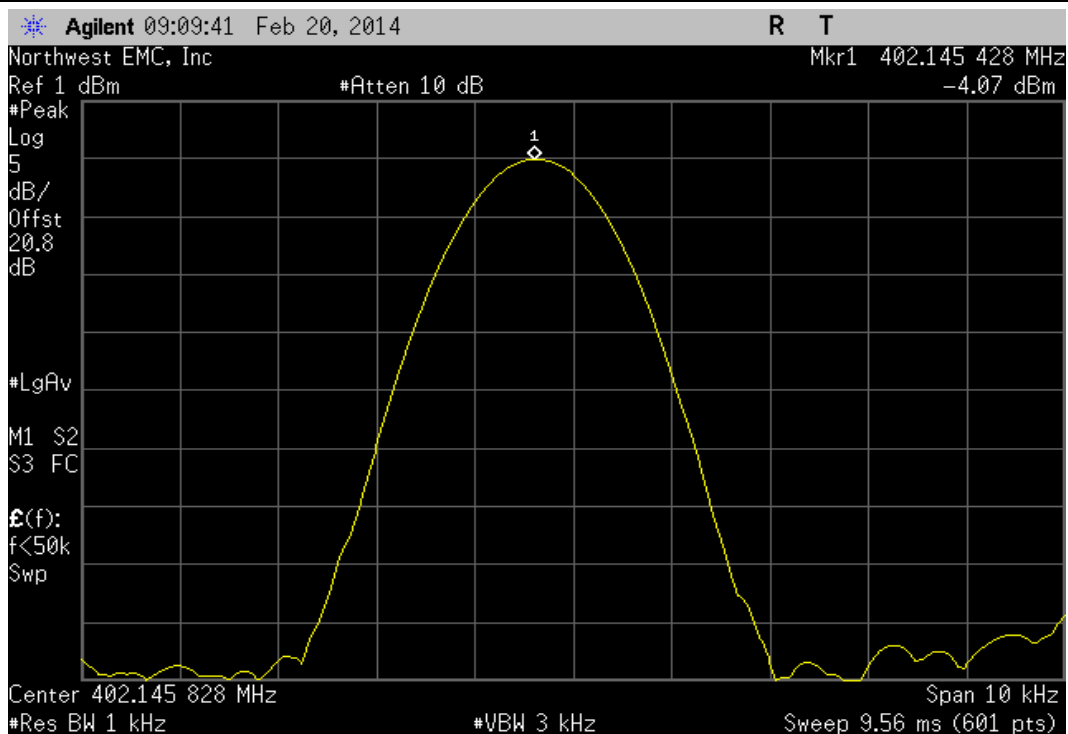
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.346462	403.35	8.8	100	Pass



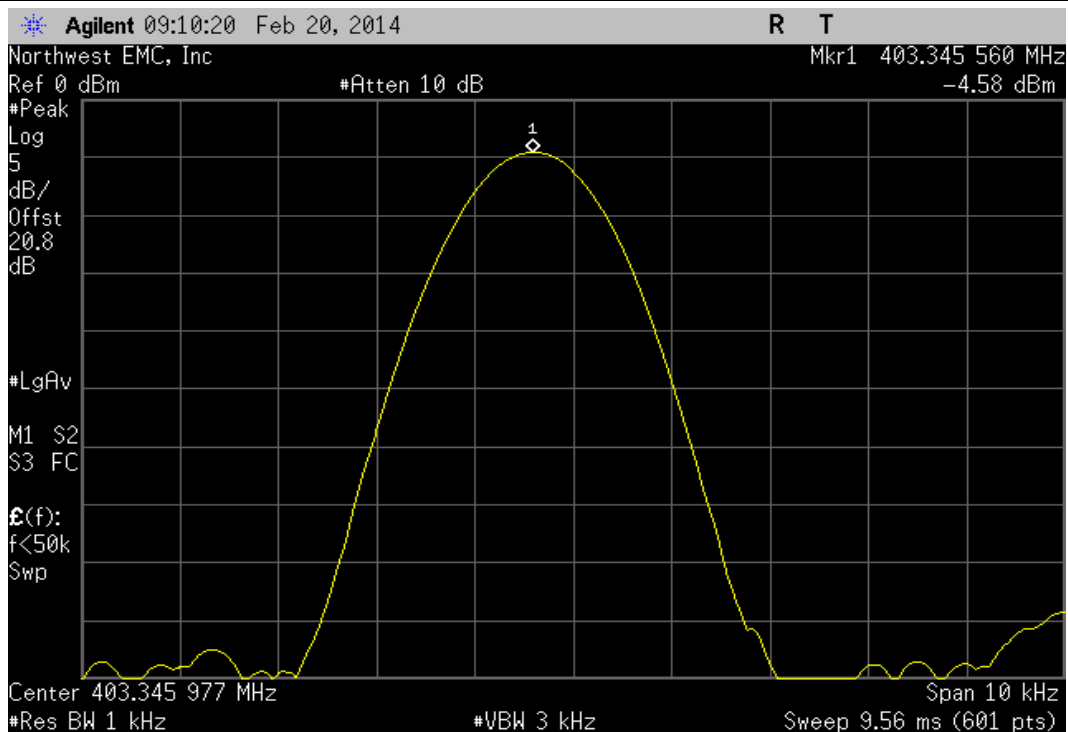
SN: 44817004, Extreme Voltage 1.65VDC, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.846247	404.85	9.3	100	Pass	



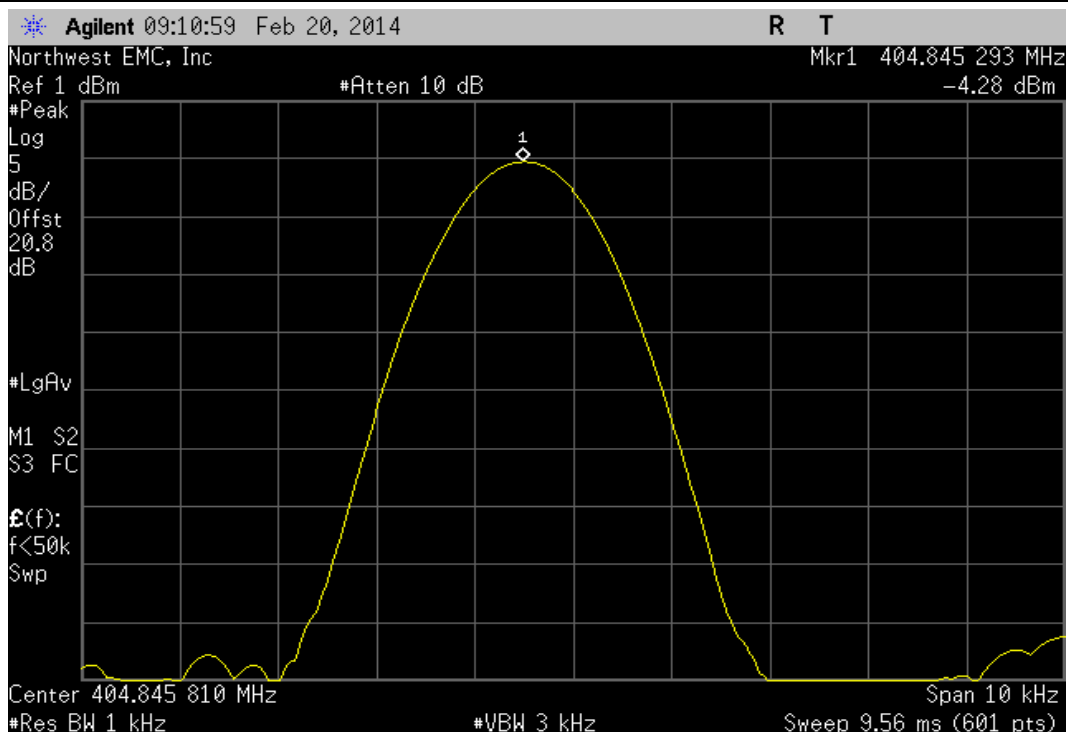
SN: 44817004, Extreme Temperature +45°C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.145428	402.15	11.4	100	Pass	



SN: 44817004, Extreme Temperature +45°C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.34556	403.35	11	100	Pass	

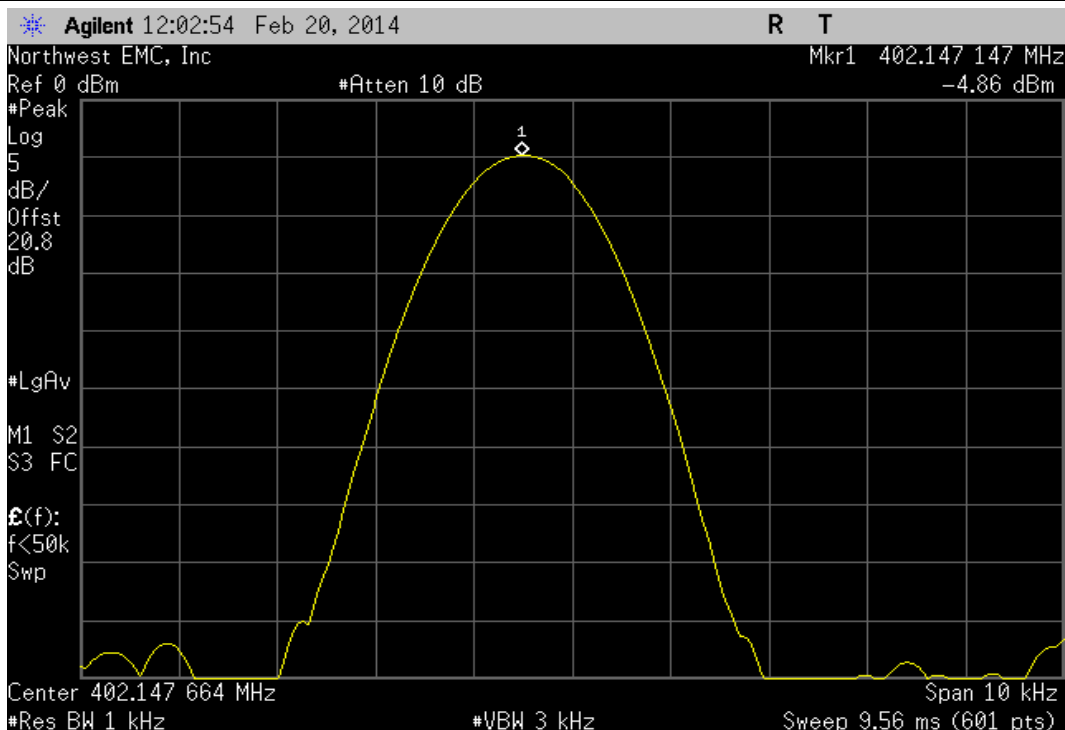


SN: 44817004, Extreme Temperature +45°C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.845293	404.85	11.6	100	Pass	



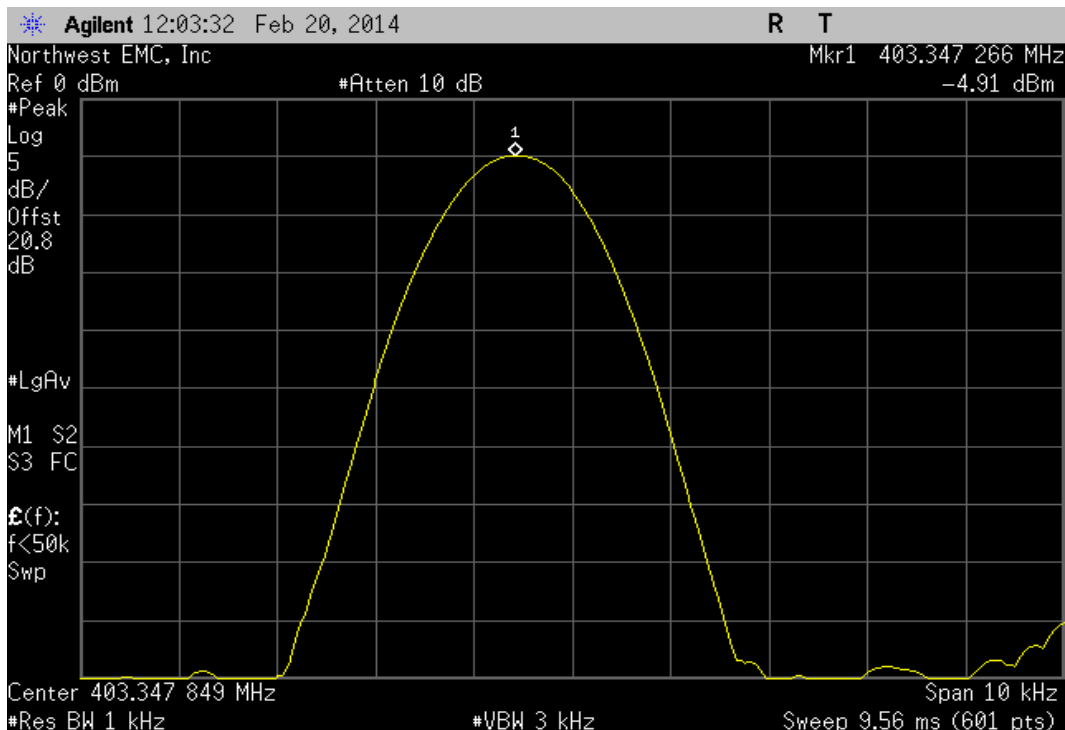
SN: 44817004, Extreme Temperature +25°C, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.147147	402.15	7.1	100	Pass



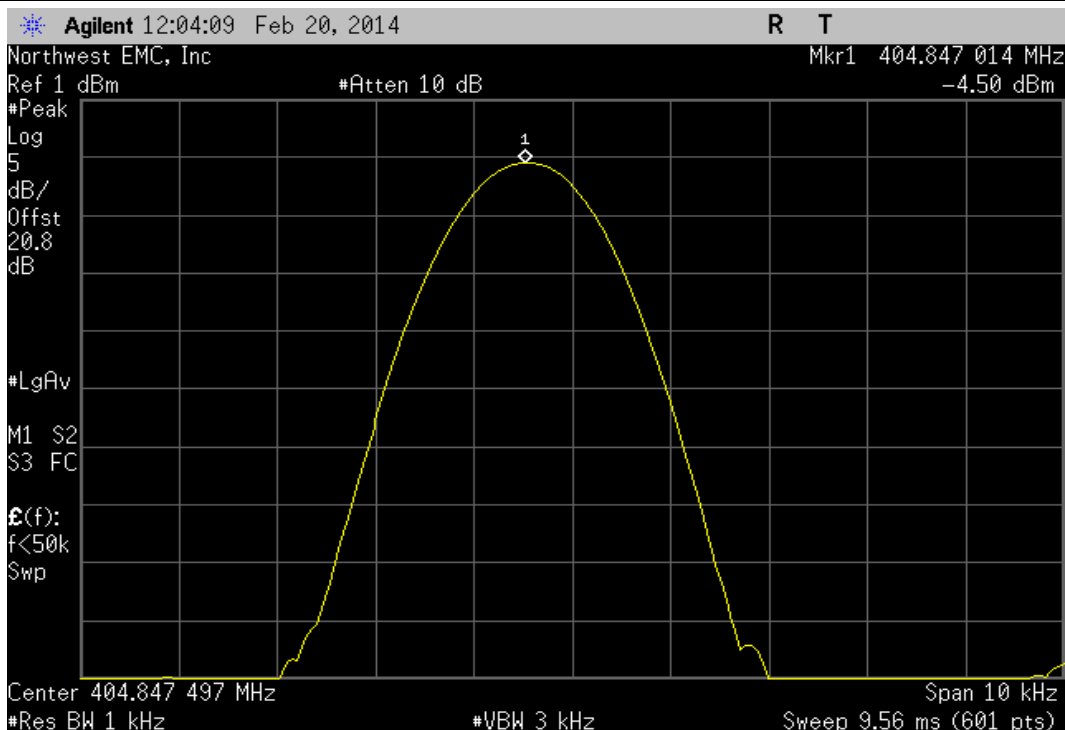
SN: 44817004, Extreme Temperature +25°C, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.347266	403.35	6.8	100	Pass



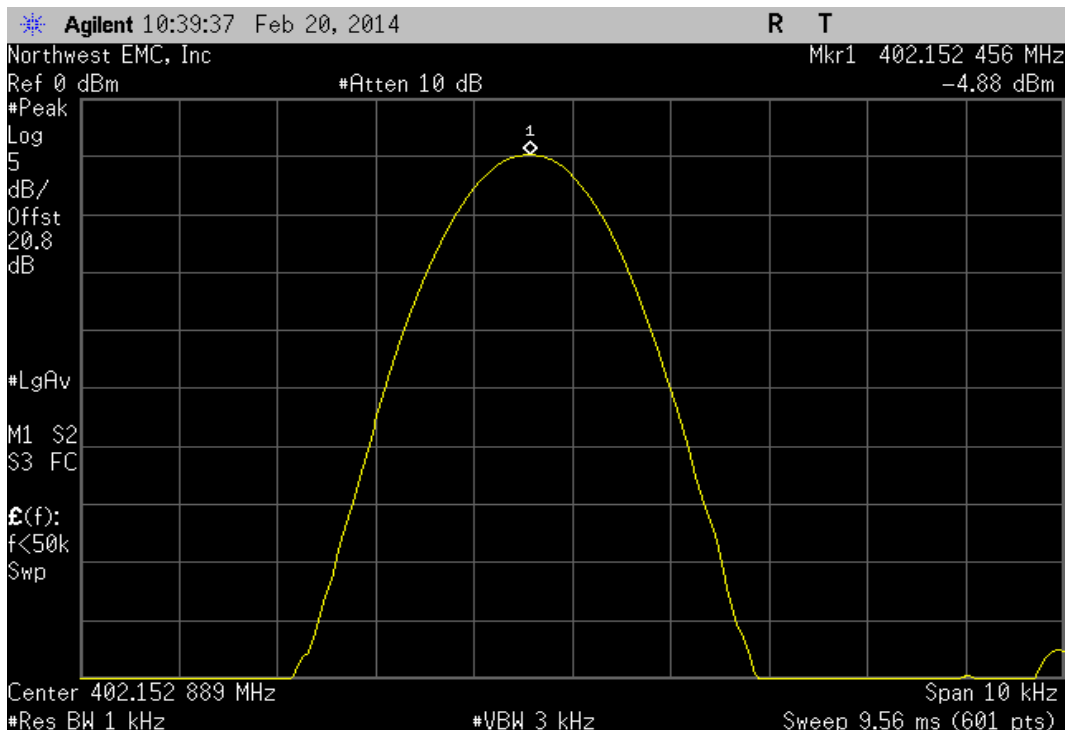
SN: 44817004, Extreme Temperature +25°C, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.847014	404.85	7.4	100	Pass



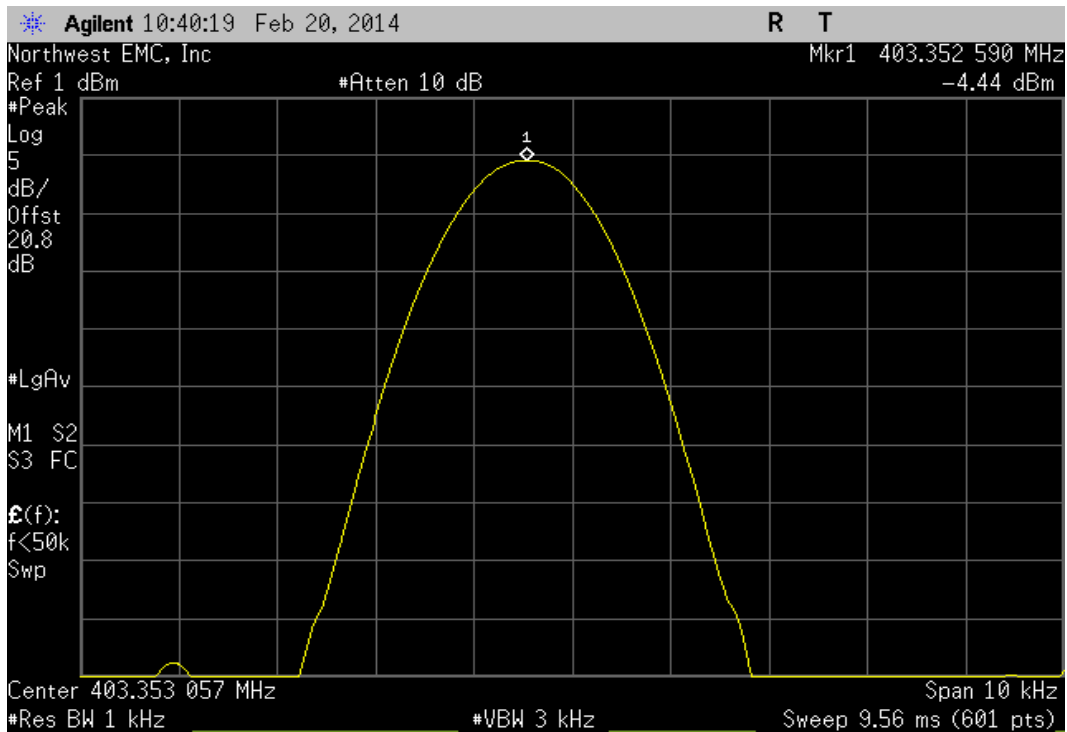
SN: 44817013, Nominal Voltage 2.7VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.152456	402.15	6.1	100	Pass



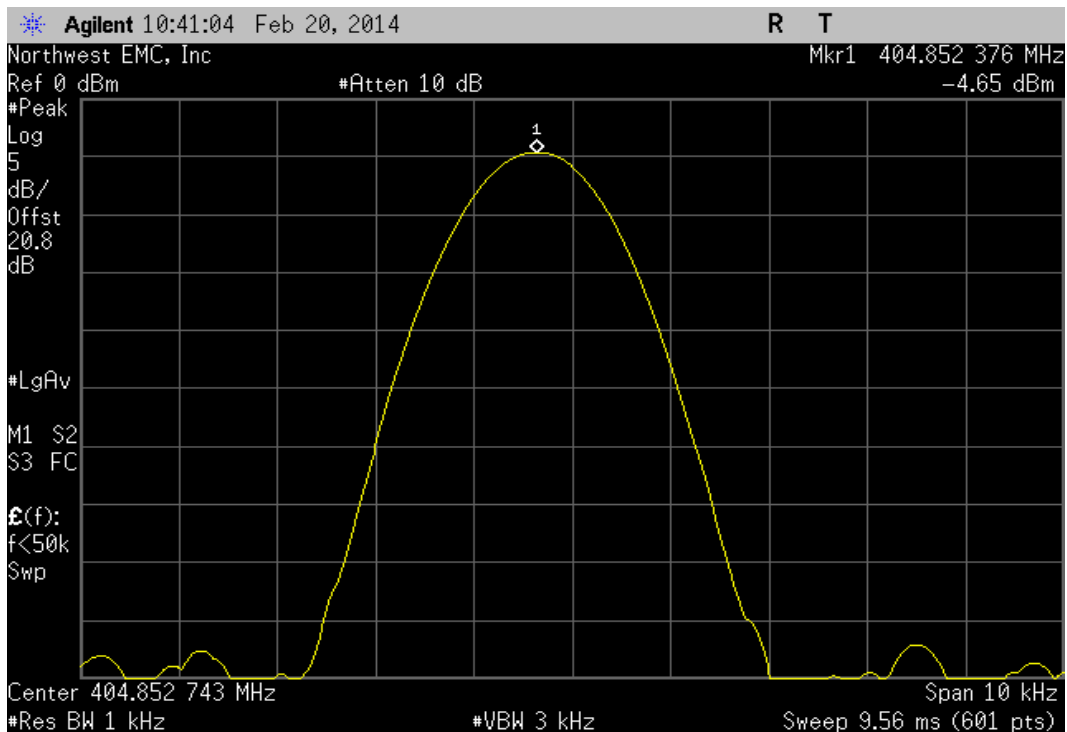
SN: 44817013, Nominal Voltage 2.7VDC, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.35259	403.35	6.4	100	Pass

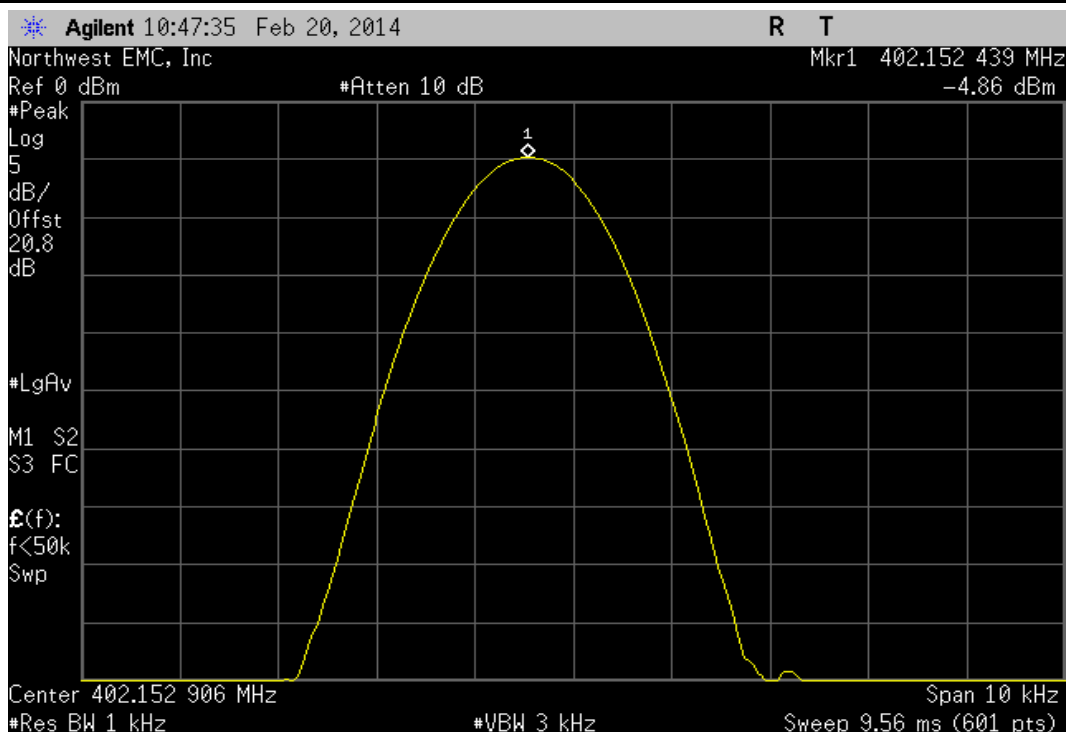


SN: 44817013, Nominal Voltage 2.7VDC, High Channel, 404.85 MHz

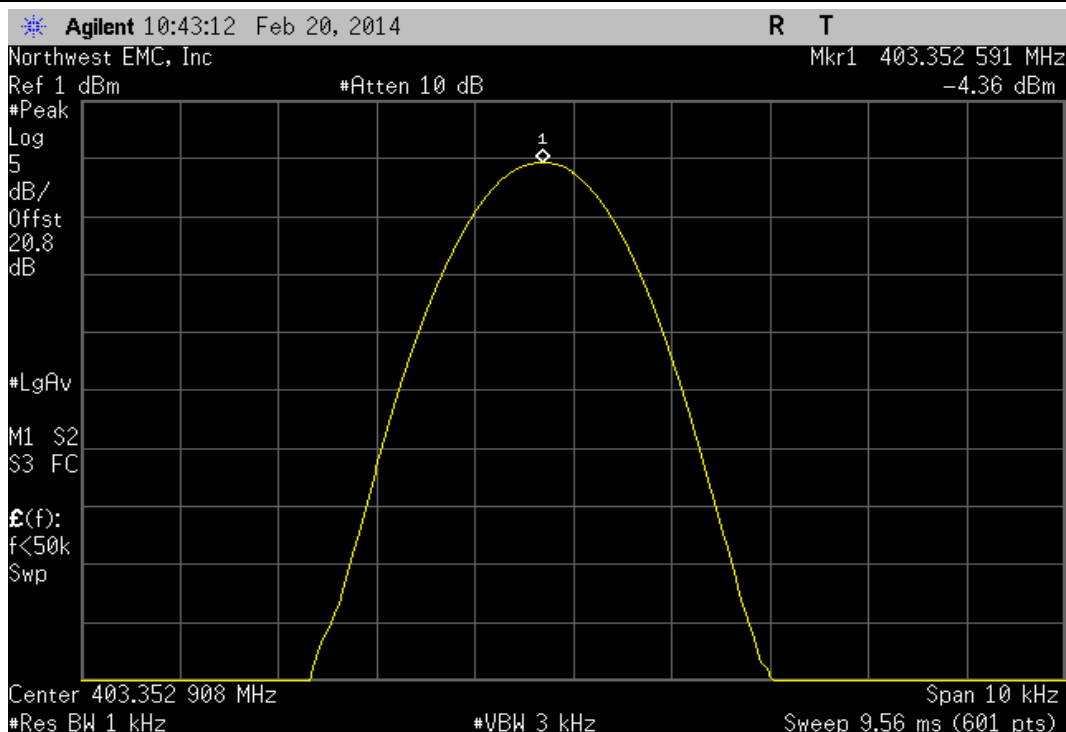
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.852376	404.85	5.9	100	Pass



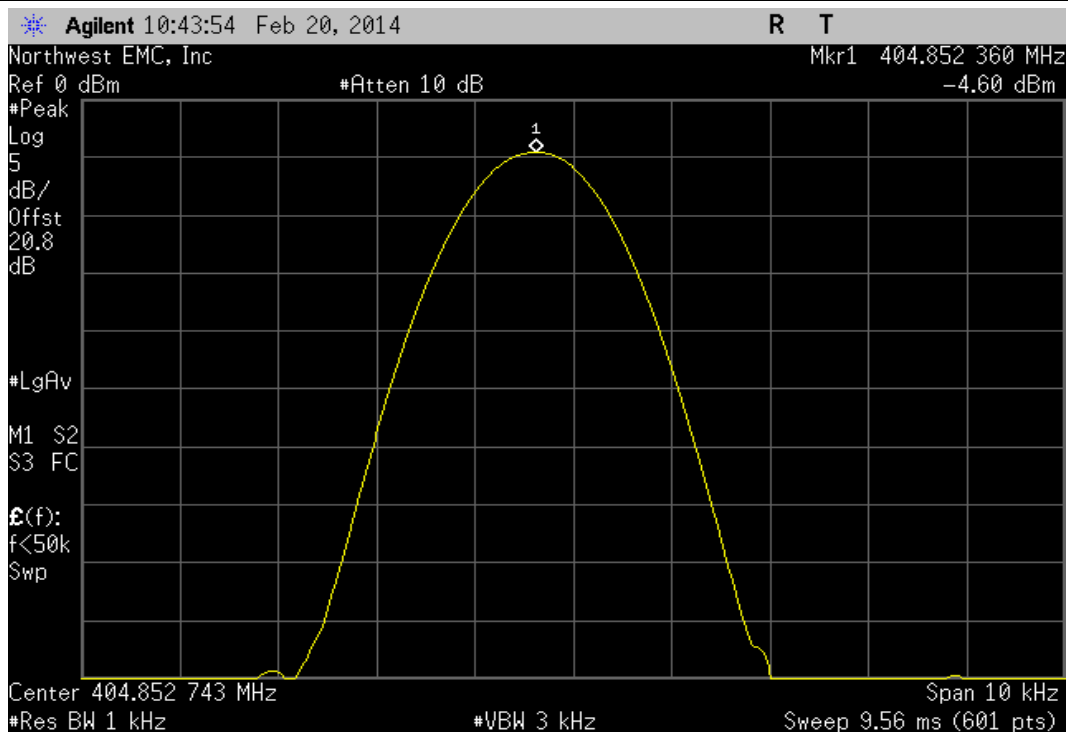
SN: 44817013, Extreme Voltage 3.2VDC, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.152439	402.15	6.1	100	Pass	



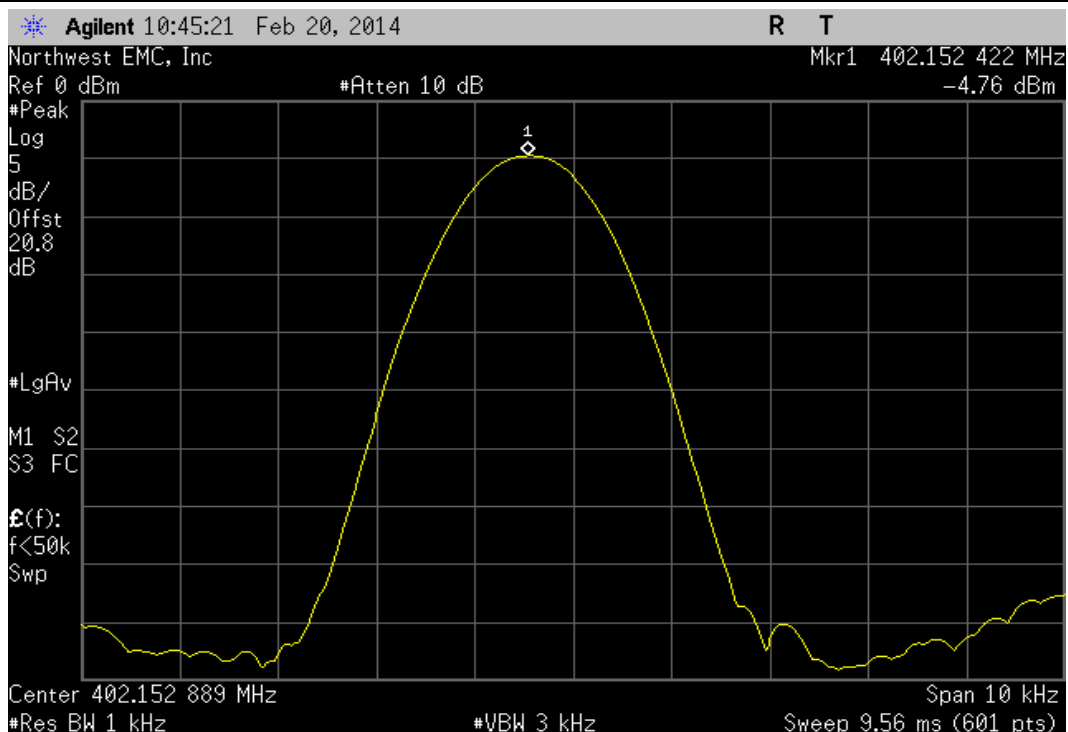
SN: 44817013, Extreme Voltage 3.2VDC, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.352591	403.35	6.4	100	Pass	



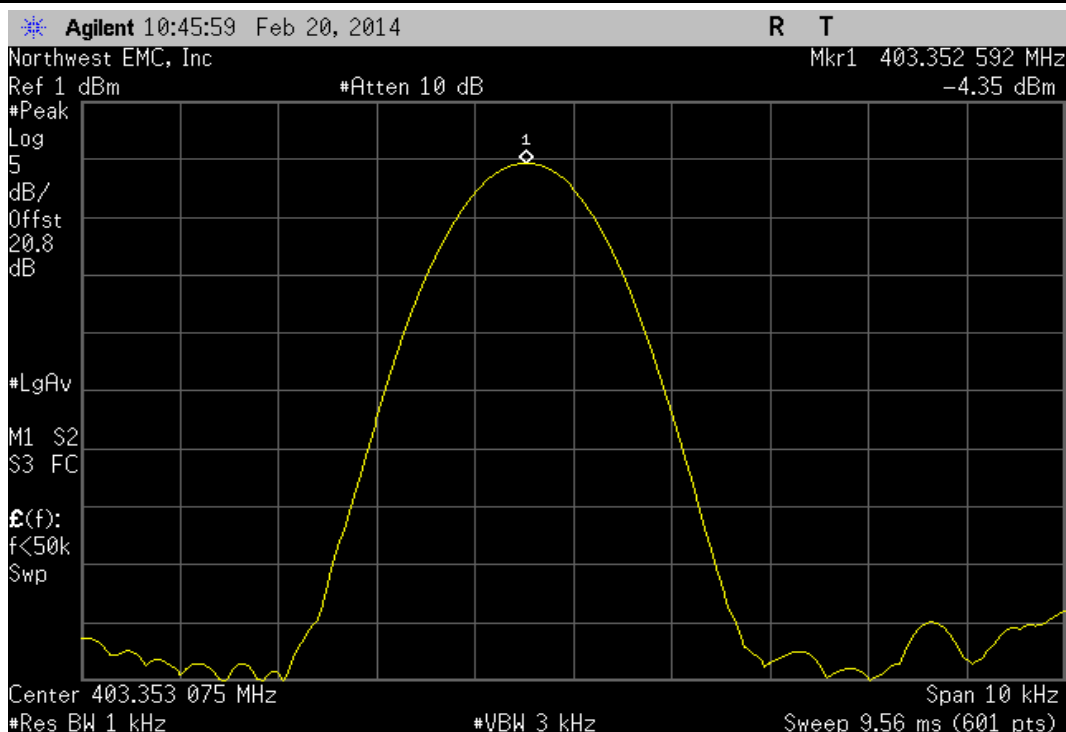
SN: 44817013, Extreme Voltage 3.2VDC, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.85236	404.85	5.8	100	Pass	



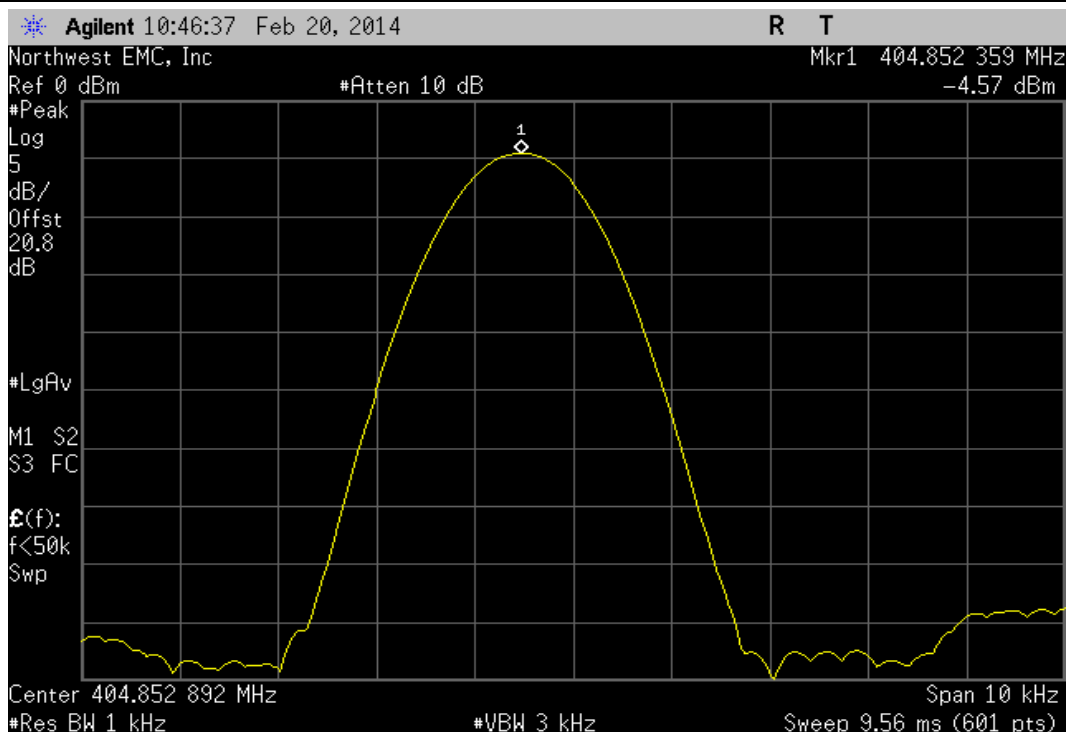
SN: 44817013, Extreme Voltage 1.65VDC, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.152422	402.15	6	100	Pass	



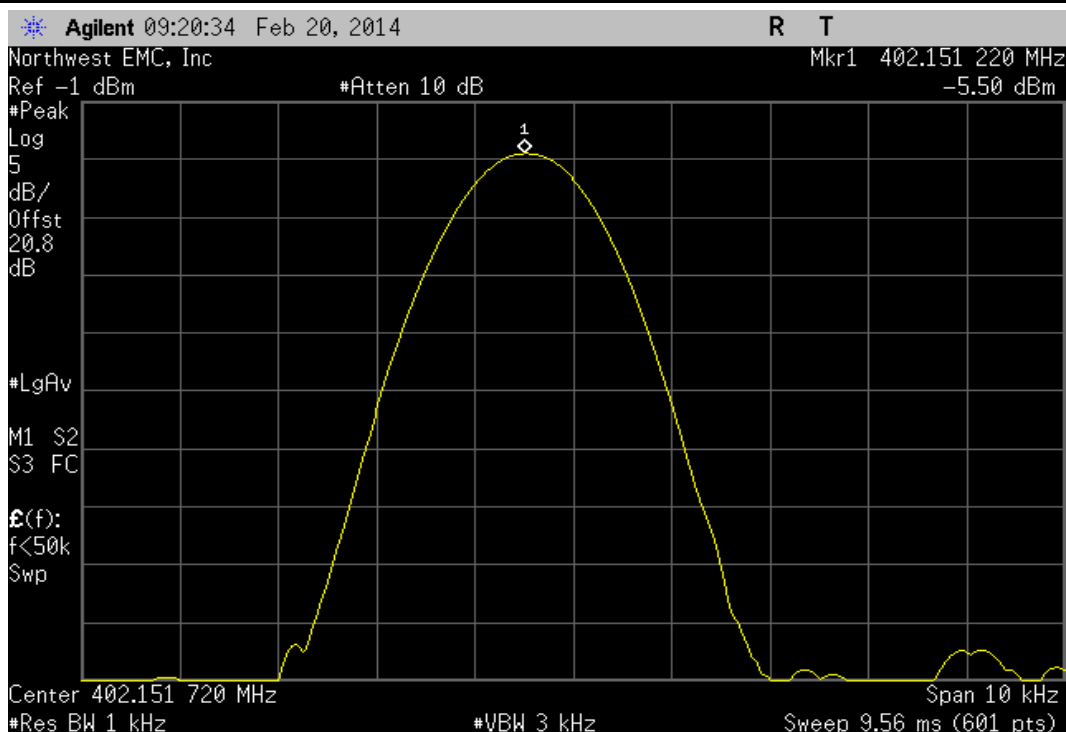
SN: 44817013, Extreme Voltage 1.65VDC, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.352592	403.35	6.4	100	Pass	



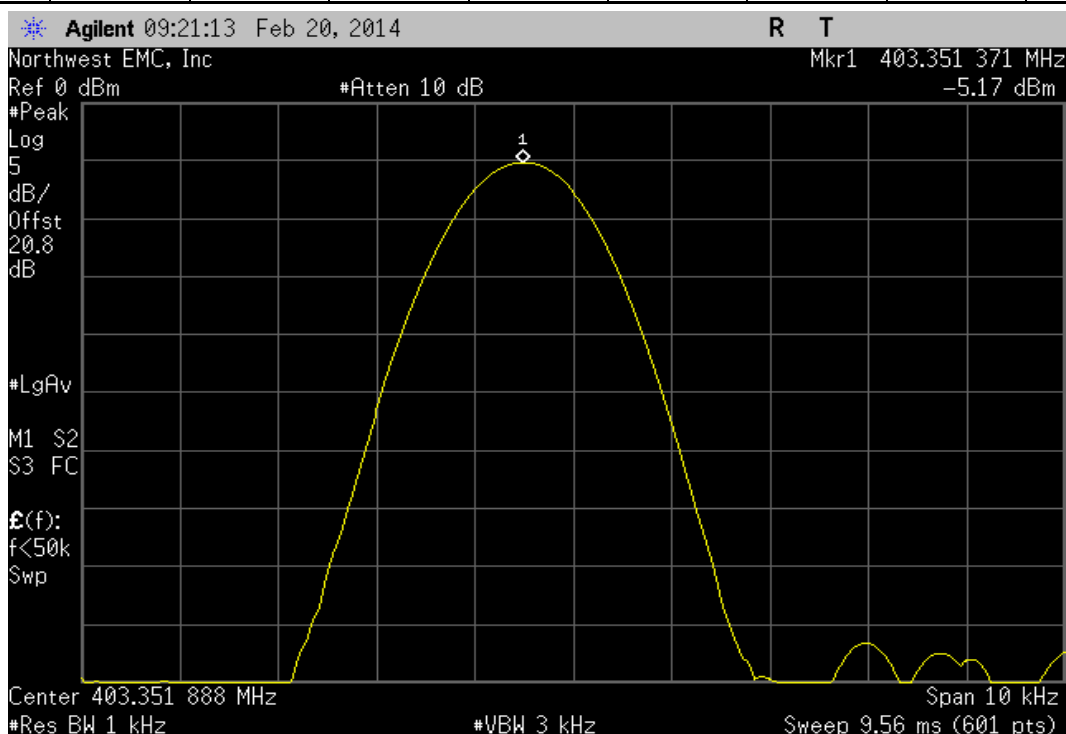
SN: 44817013, Extreme Voltage 1.65VDC, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.852359	404.85	5.8	100	Pass	



SN: 44817013, Extreme Temperature +45°C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.15122	402.15	3	100	Pass	

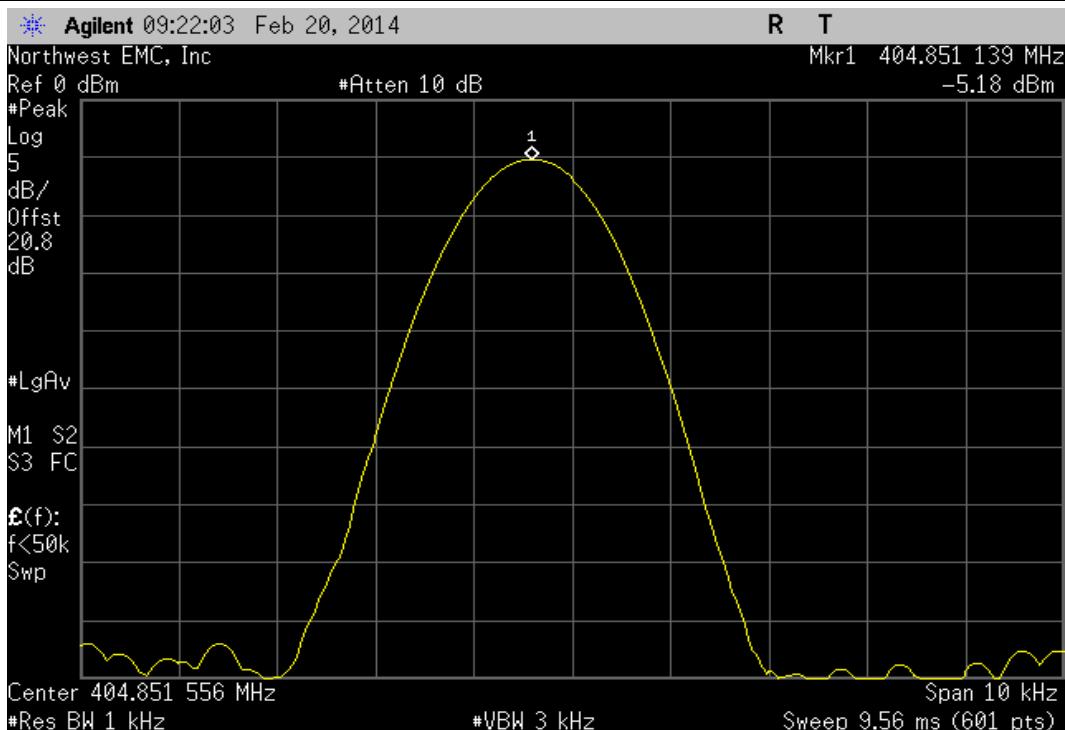


SN: 44817013, Extreme Temperature +45°C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.351371	403.35	3.4	100	Pass	



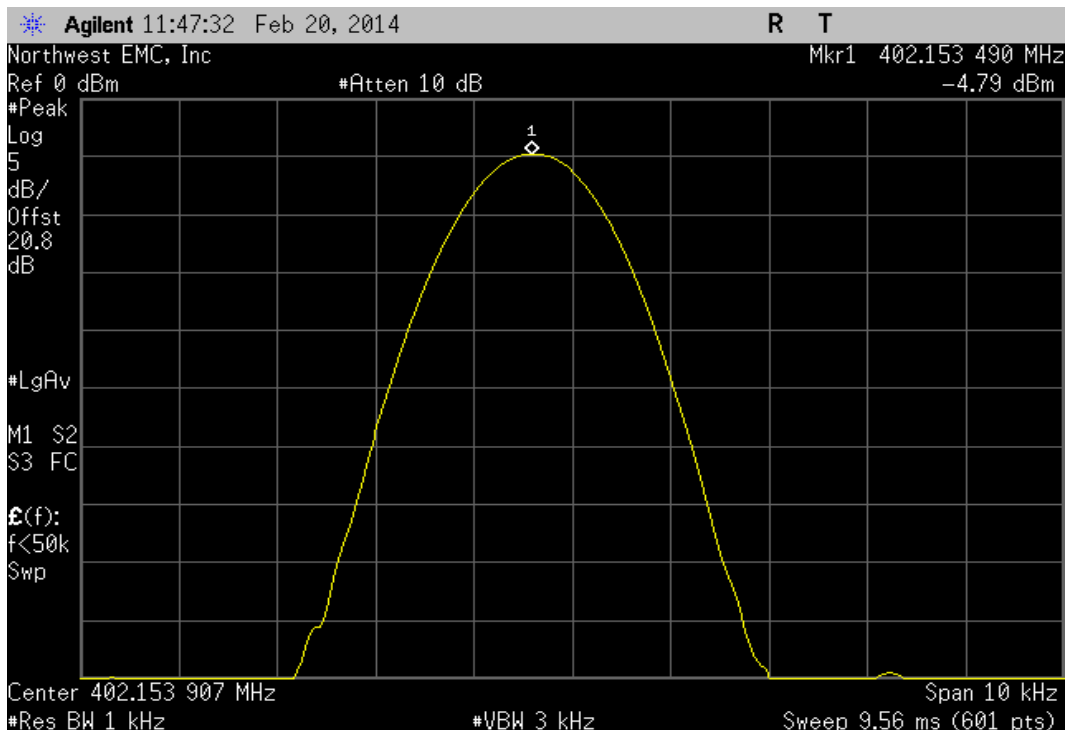
SN: 44817013, Extreme Temperature +45°C, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.851139	404.85	2.8	100	Pass

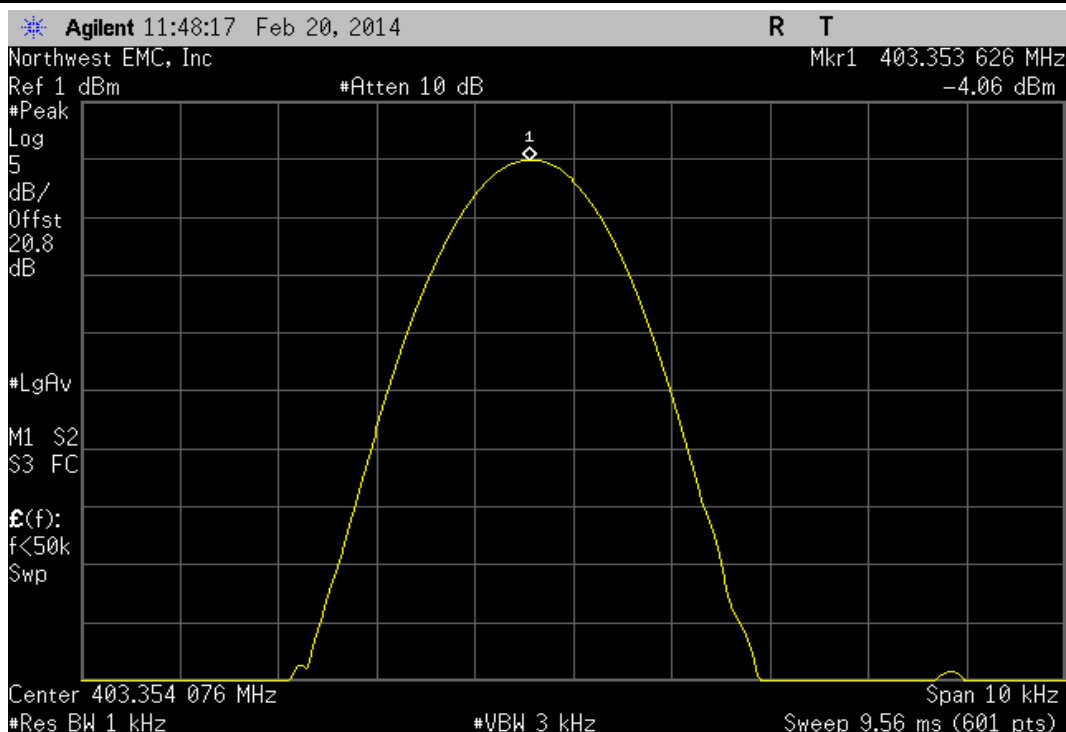


SN: 44817013, Extreme Temperature +25°C, Low Channel, 402.15 MHz

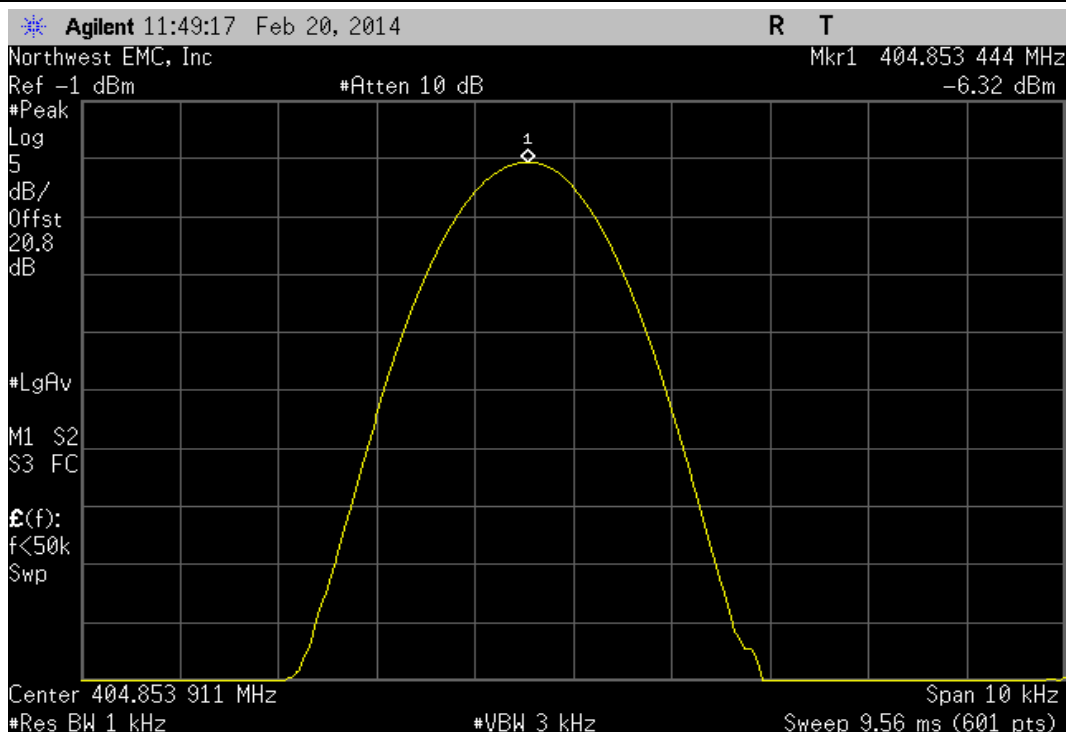
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.15349	402.15	8.7	100	Pass



SN: 44817013, Extreme Temperature +25°C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.353626	403.35	9	100	Pass	

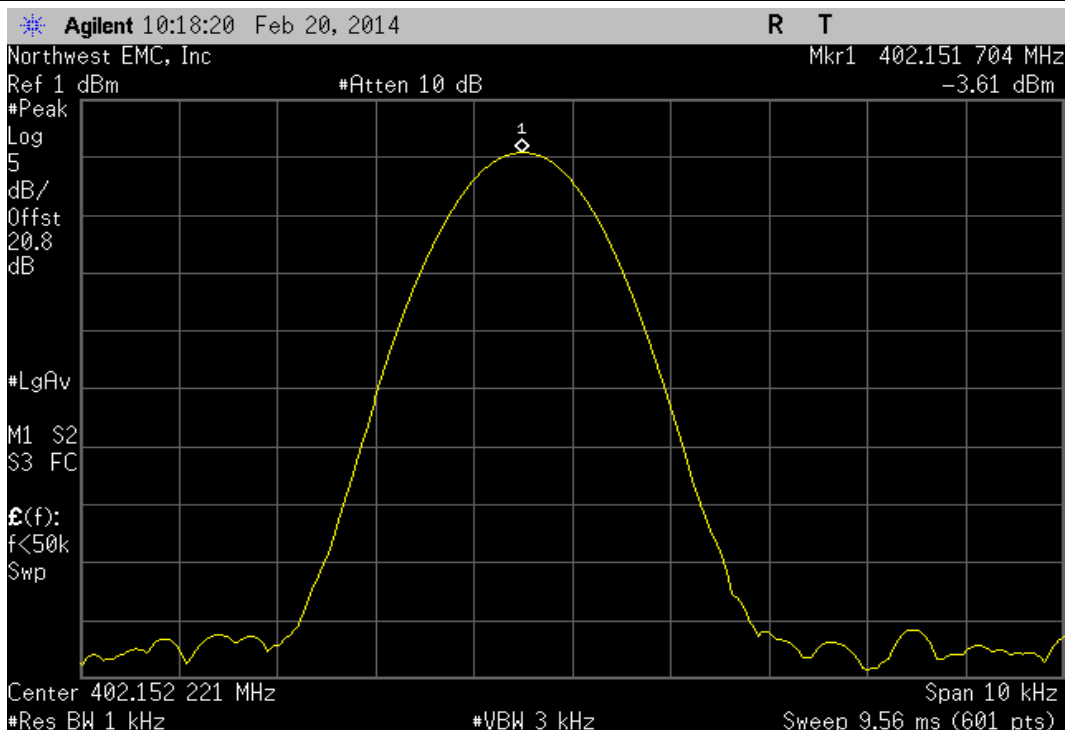


SN: 44817013, Extreme Temperature +25°C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.853444	404.85	8.5	100	Pass	



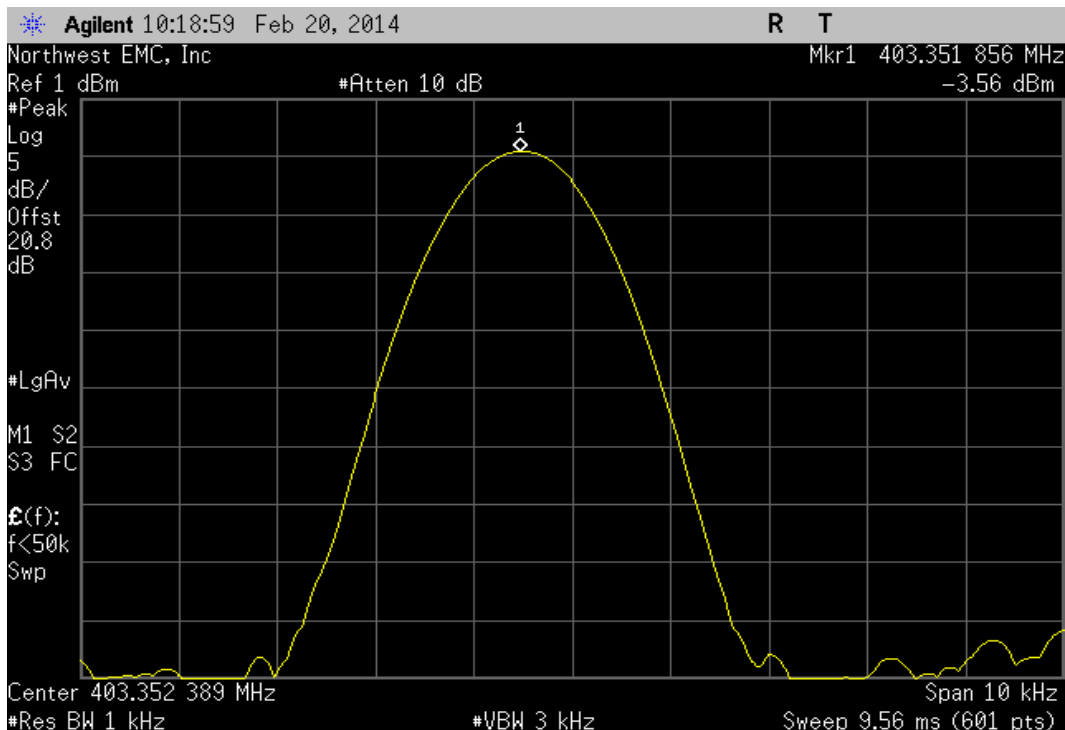
SN: 44817017, Nominal Voltage 2.7VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.151704	402.15	4.2	100	Pass



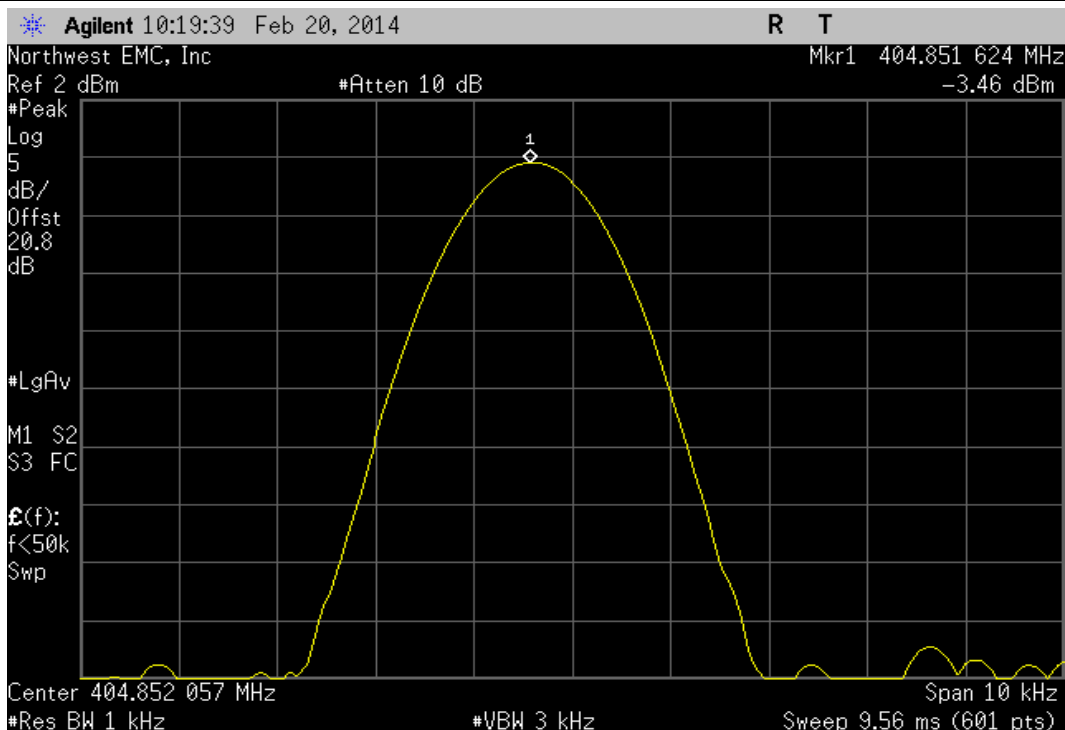
SN: 44817017, Nominal Voltage 2.7VDC, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.351856	403.35	4.6	100	Pass



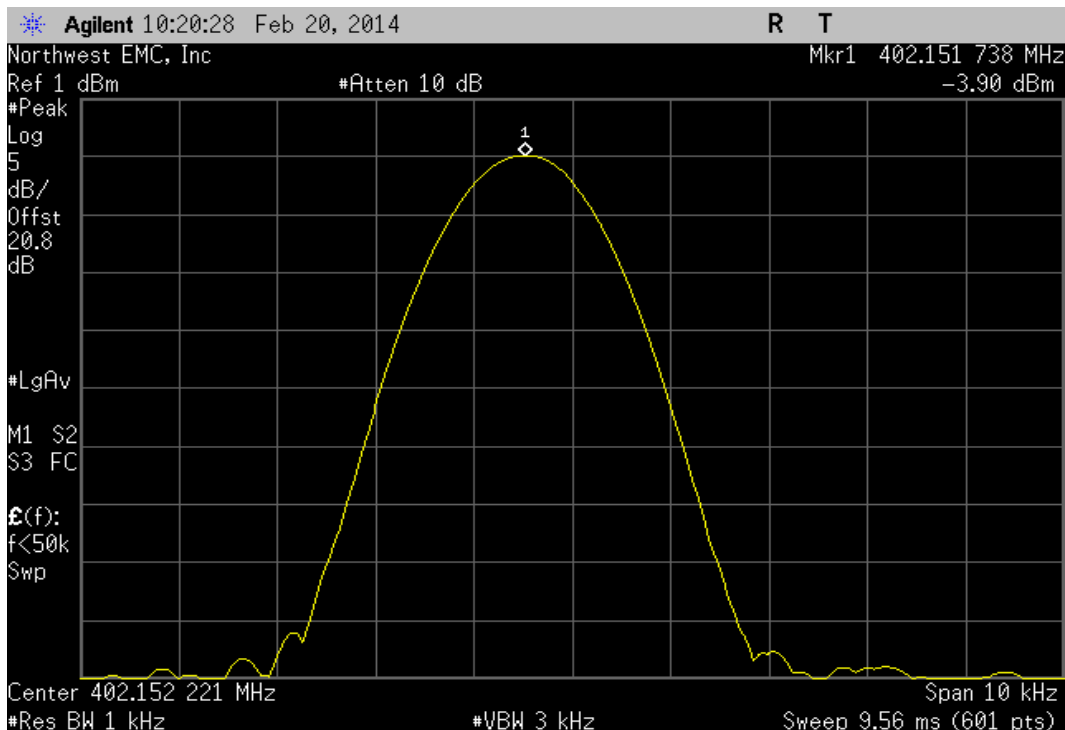
SN: 44817017, Nominal Voltage 2.7VDC, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.851624	404.85	4	100	Pass



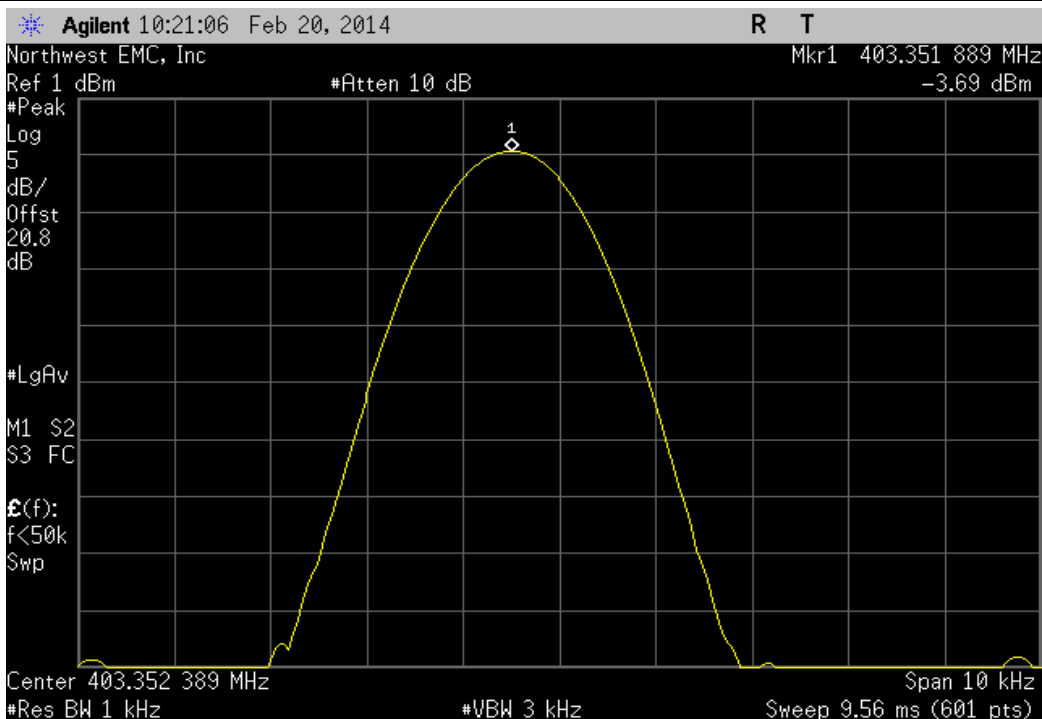
SN: 44817017, Extreme Voltage 3.2VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.151738	402.15	4.3	100	Pass



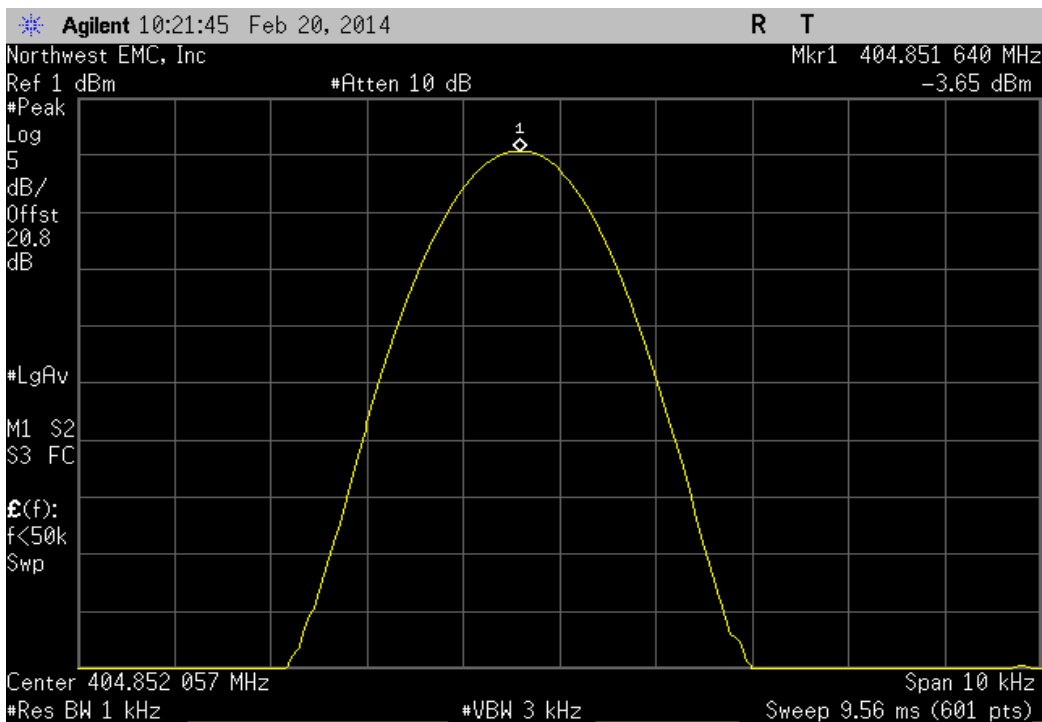
SN: 44817017, Extreme Voltage 3.2VDC, Mid Channel, 403.35 MHz

	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.351889	403.35	4.7	100	Pass



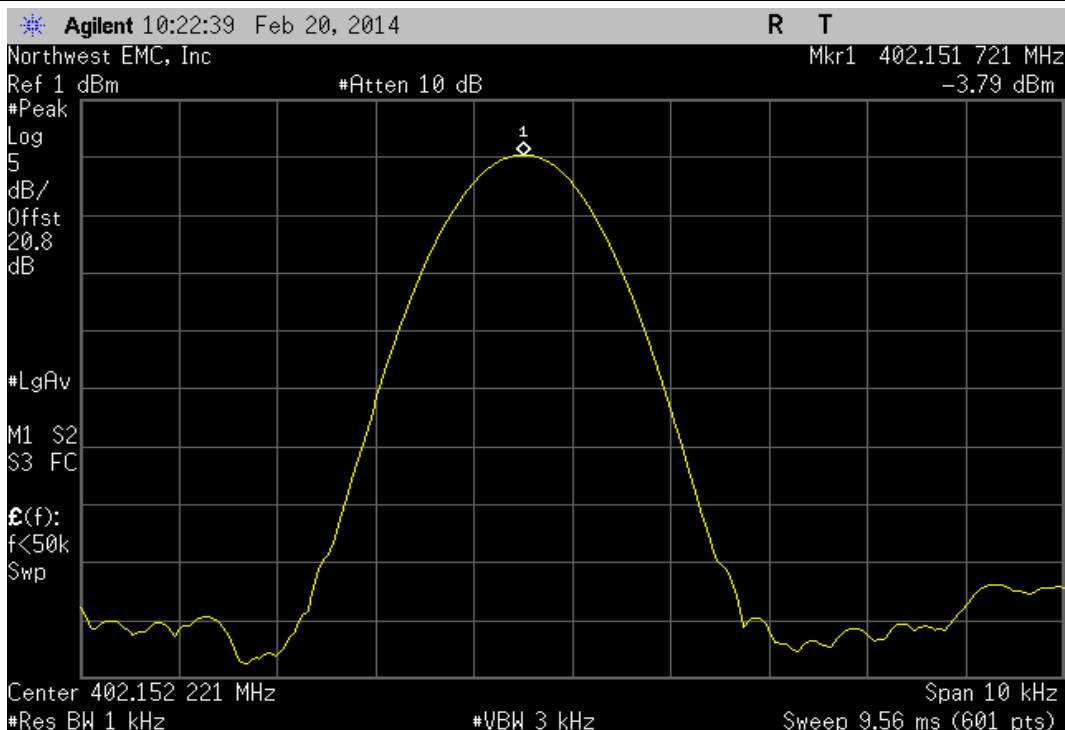
SN: 44817017, Extreme Voltage 3.2VDC, High Channel, 404.85 MHz

	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.85164	404.85	4.1	100	Pass



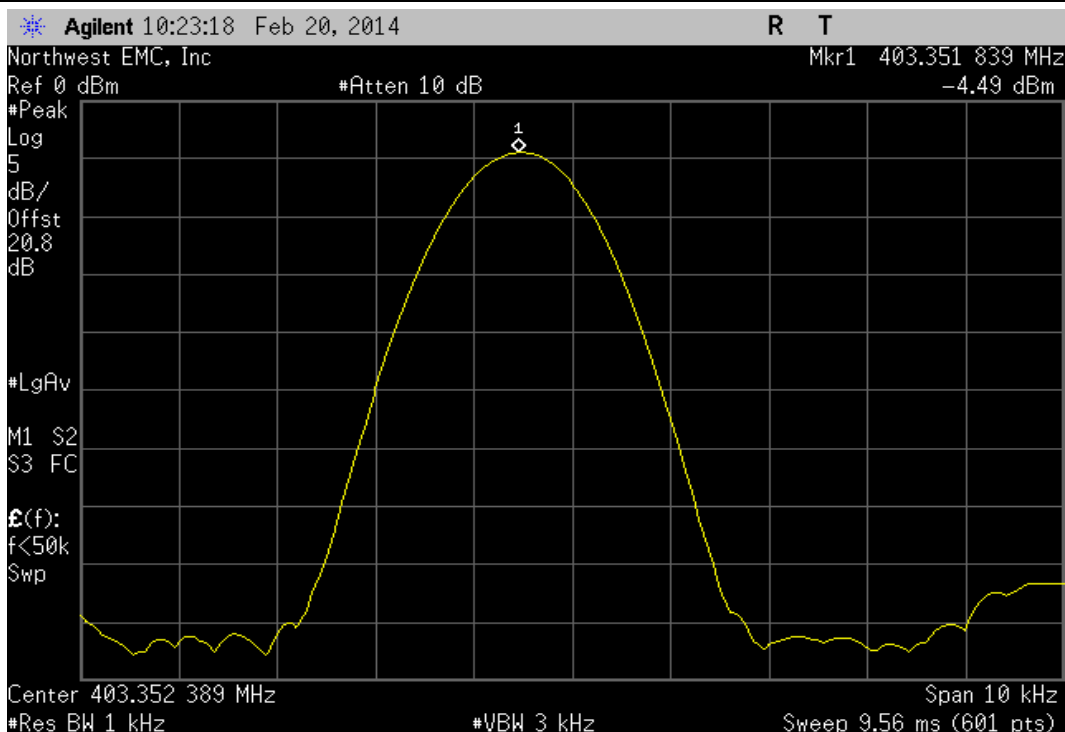
SN: 44817017, Extreme Voltage 1.65VDC, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.151721	402.15	4.3	100	Pass



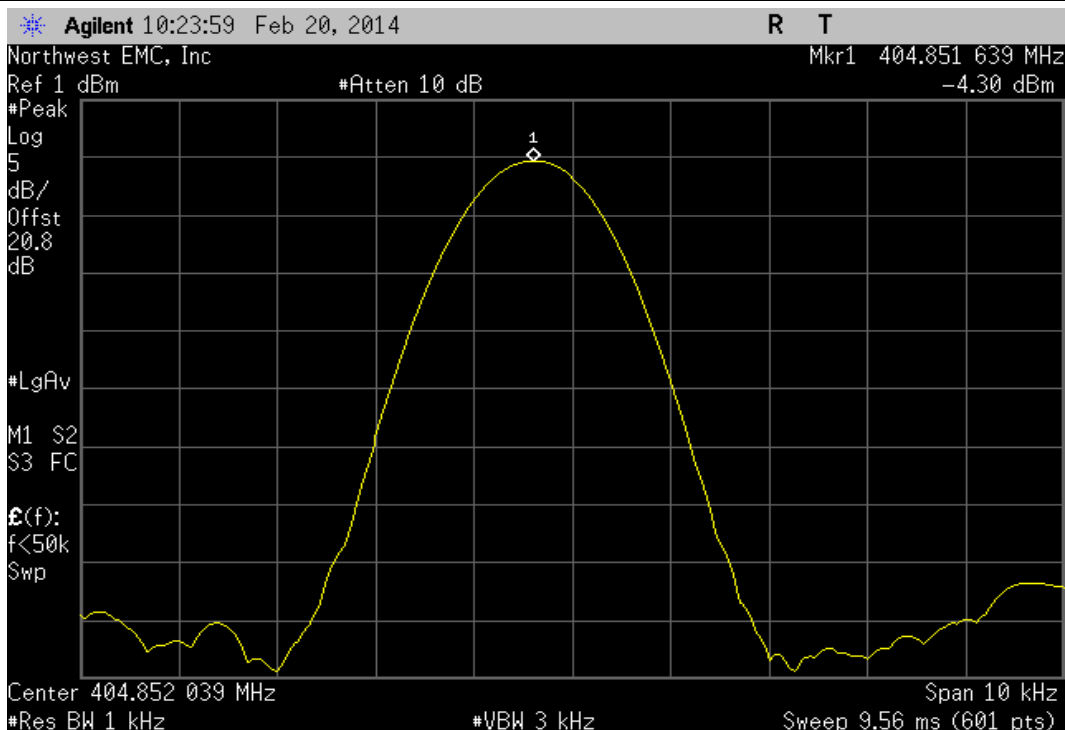
SN: 44817017, Extreme Voltage 1.65VDC, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.351839	403.35	4.6	100	Pass



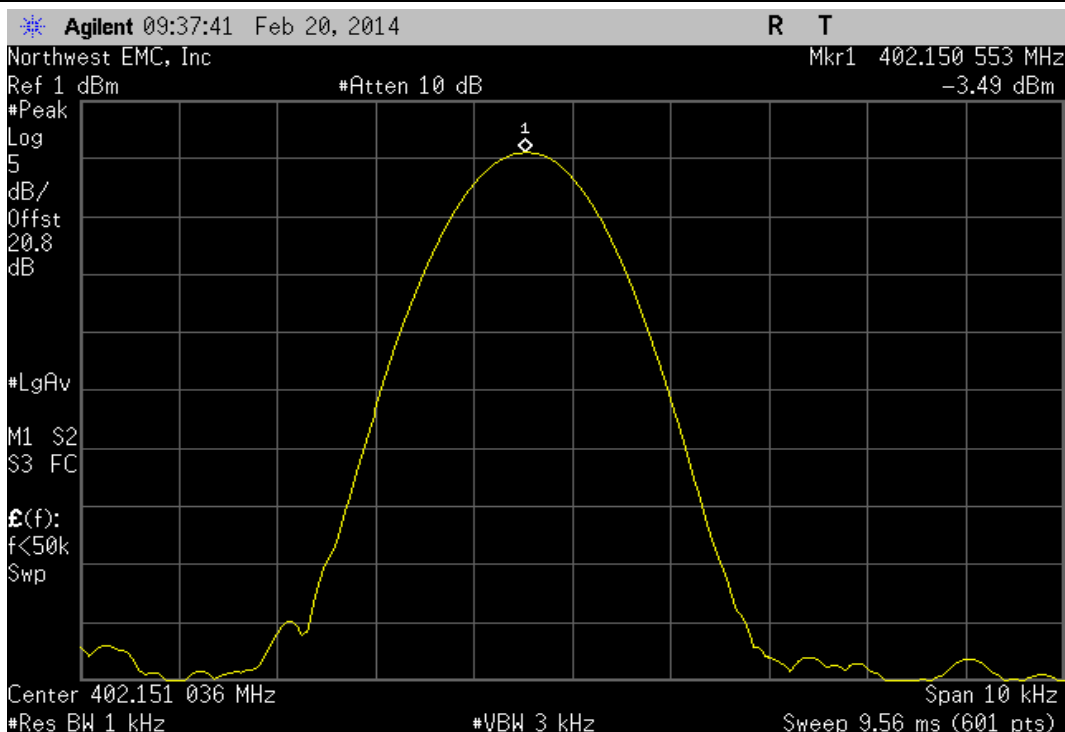
SN: 44817017, Extreme Voltage 1.65VDC, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.851639	404.85	4.1	100	Pass



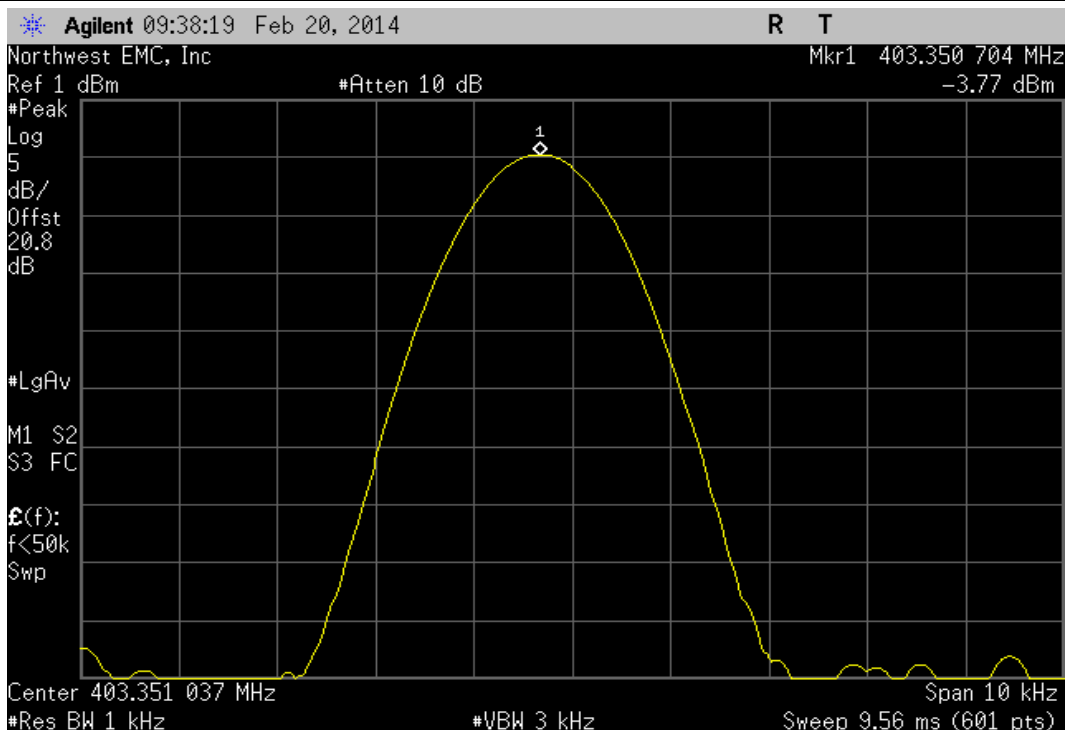
SN: 44817017, Extreme Temperature +45°C, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.150553	402.15	1.4	100	Pass



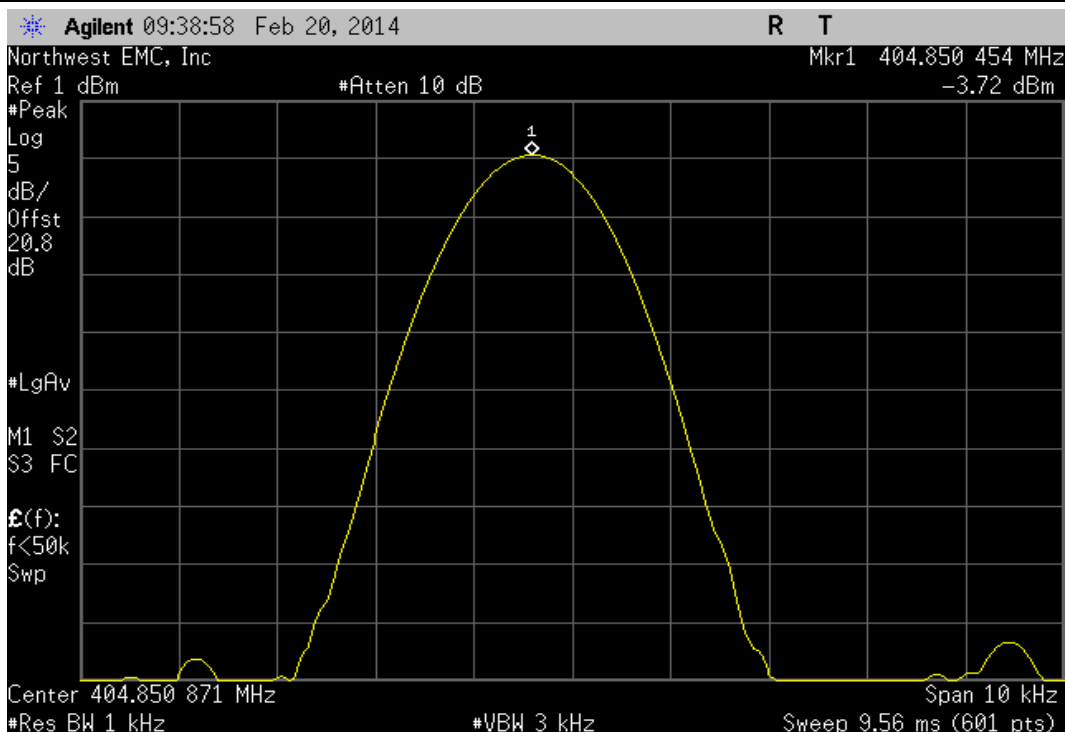
SN: 44817017, Extreme Temperature +45°C, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.350704	403.35	1.8	100	Pass



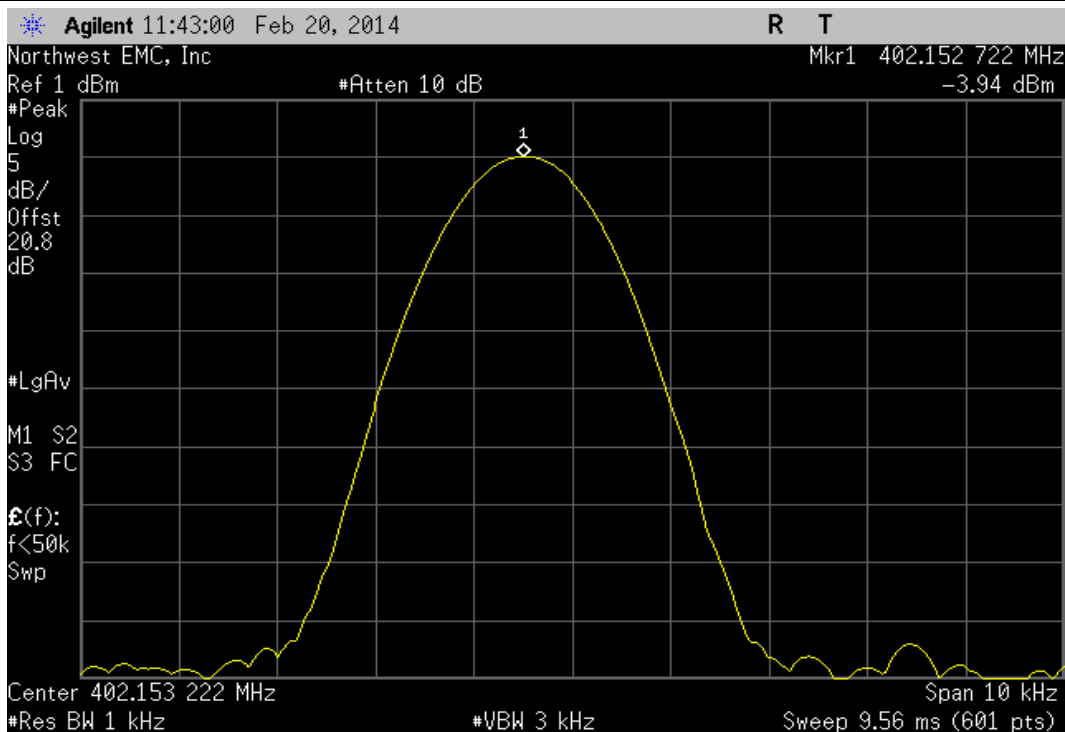
SN: 44817017, Extreme Temperature +45°C, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.850454	404.85	1.1	100	Pass



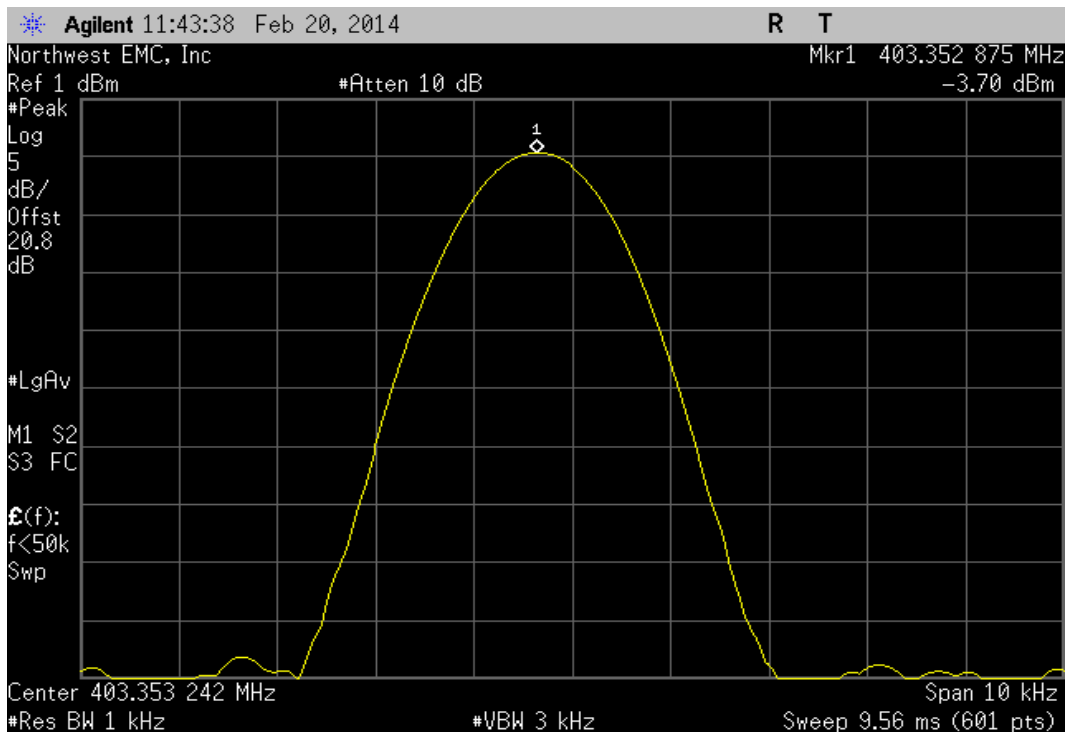
SN: 44817017, Extreme Temperature +25°C, Low Channel, 402.15 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
402.152722	402.15	6.8	100	Pass



SN: 44817017, Extreme Temperature +25°C, Mid Channel, 403.35 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
403.352875	403.35	7.1	100	Pass



SN: 44817017, Extreme Temperature +25°C, High Channel, 404.85 MHz

Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
404.85266	404.85	6.6	100	Pass

