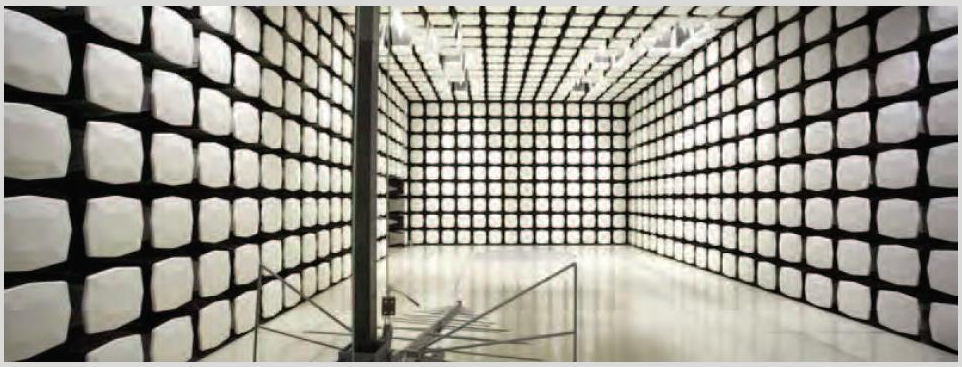
Boston Scientific Corporation

Ingenio 2

FCC 95I:2018
MedRadio

Report # BSTN0835



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST

Last Date of Test: May 22, 2018
Boston Scientific Corporation
Model: Ingenio 2

Radio Equipment Testing

Standards

Specification	Method
FCC 95I:2018	ANSI C63.26:2015

Results

Method	Test Description	Applied	Results	Comments
ANSI C63.26 5.4.3	Emission Bandwidth	Yes	Pass	
FCC 95.2579(a)(1)	Emission Mask	Yes	Pass	
ANSI C63.26 5.2.3.3	Conducted Output Power	Yes	Pass	
ANSI C63.26 5.6	Frequency Stability	Yes	Pass	
ANSI C63.26 5.5.4	Spurious Radiated Emissions	Yes	Pass	
ANSI C63.26 5.7	Spurious Conducted Emissions	Yes	Pass	
ANSI C63.26 5.2.3.3, 5.2.7	Radiated Power (EIRP)	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

ACCREDITATIONS AND AUTHORIZATIONS

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

European Union

European Commission – Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

Australia/New Zealand

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

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

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

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

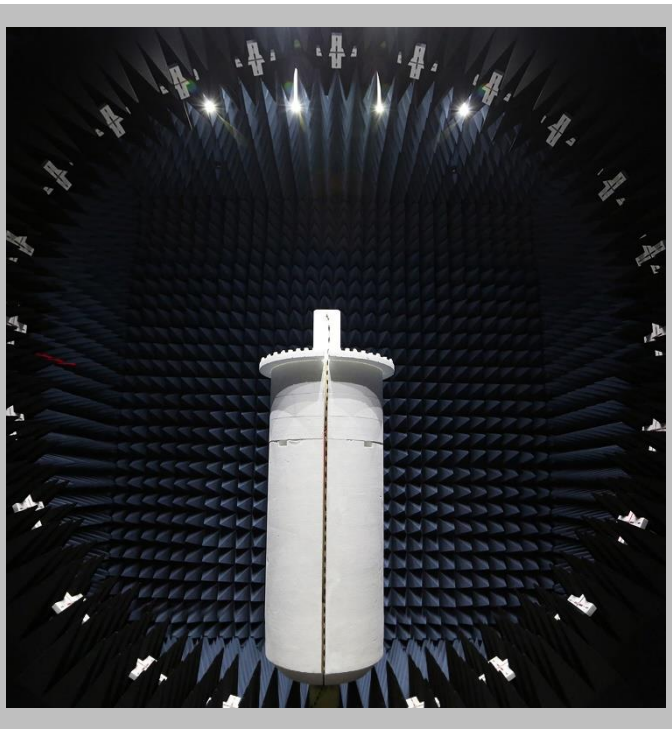
MIC – Recognized by MIC as a CAB for the acceptance of test data.

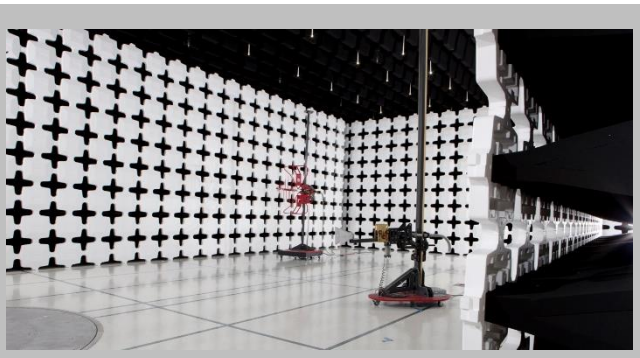
SCOPE

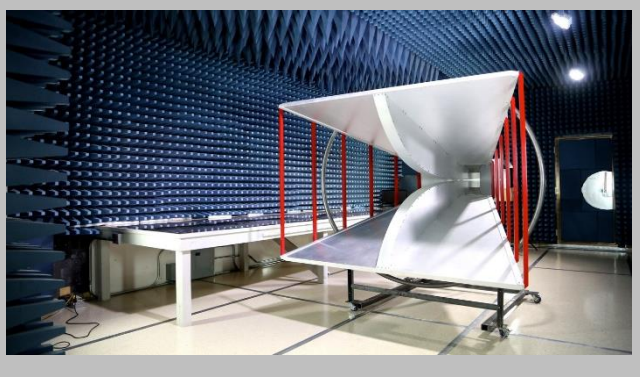
For details on the Scopes of our Accreditations, please visit:
http://portlandcustomer.element.com/ts/scope/scope.htm
http://gsi.nist.gov/global/docs/cabs/designations.html

FACILITIES

California	Minnesota	New York	Oregon	Texas	Washington
Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Labs NC01-05 19201 120th Ave NE Bothell, WA 98011 (425)984-6600
NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
Innovation, Science and Economic Development Canada					
2834B-1, 2834B-3	2834E-1, 2834E-3	N/A	2834D-1, 2834D-*2*	2834G-1	2834F-1
BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157







EMISSIONS MEASUREMENTS

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 QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

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.

Sample Calculations

Radiated Emissions:

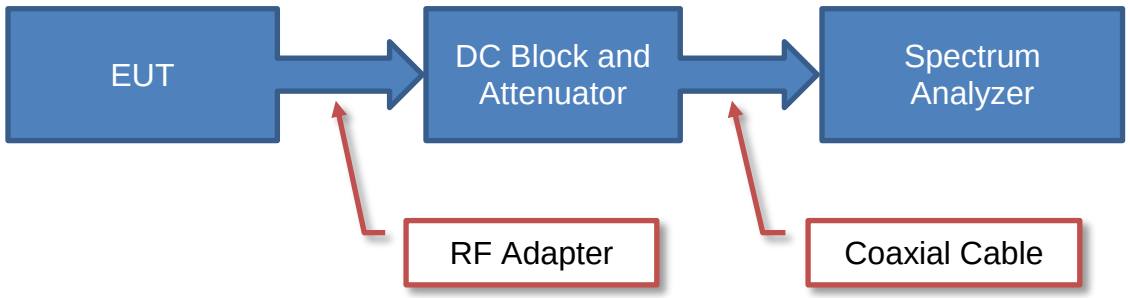
Field Strength		Measured Level		Antenna Factor		Cable Factor		Amplifier Gain		Distance Adjustment Factor		External Attenuation
33.5	=	42.6	+	28.6	+	3.1	-	40.8	+	0.0	+	0.0

Conducted Emissions:

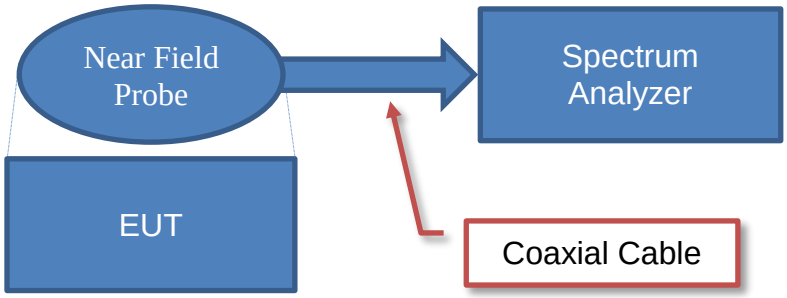
Adjusted Level		Measured Level		Transducer Factor		Cable Factor		External Attenuation
47.1	=	26.7	+	0.3	+	0.1	+	20.0

Test Setup Block Diagrams

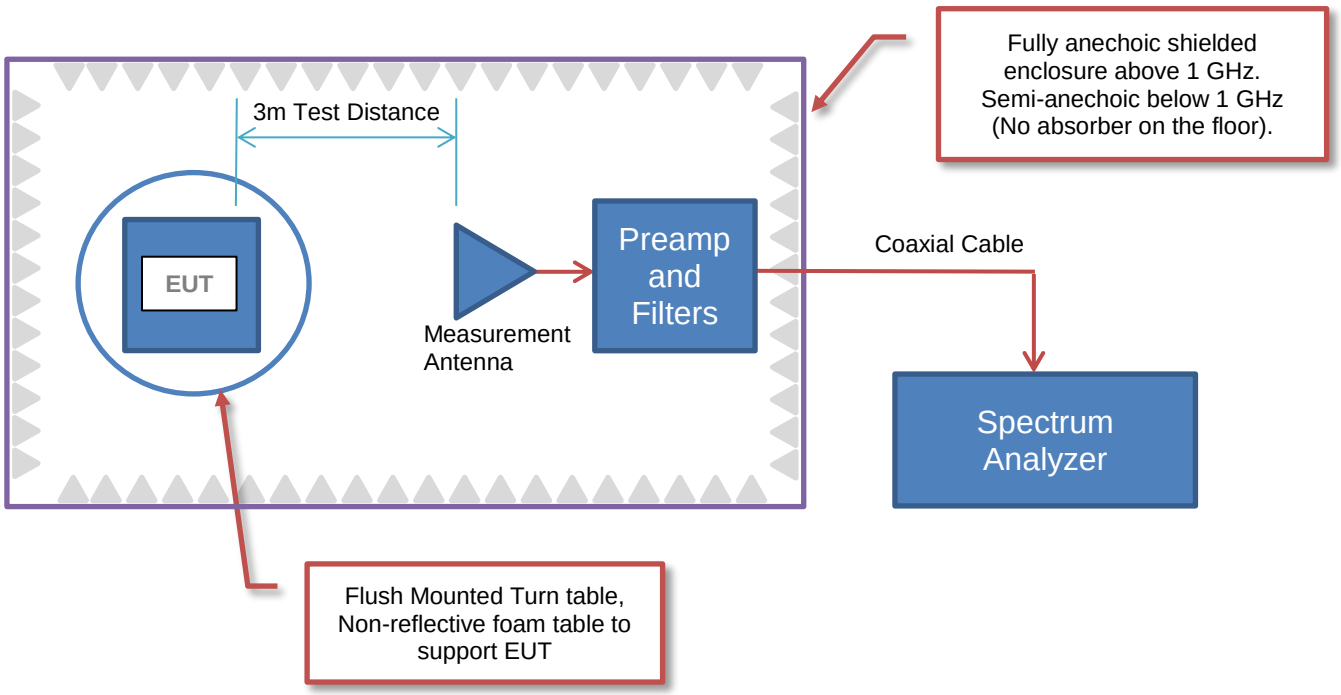
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Avenue North
City, State, Zip:	St. Paul, MN 55112-5798
Test Requested By:	Ching Wang
Model:	Ingenio 2
First Date of Test:	May 14, 2018
Last Date of Test:	May 22, 2018
Receipt Date of Samples:	May 14, 2018
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
MedRadio device with 1 antenna type

Testing Objective:
Seeking FCC authorization for the MedRadio transmitter to FCC Part 95I.

CONFIGURATIONS

Configuration BSTN0835- 1

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Implant	Boston Scientific Corporation	U228	728066

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
RA Lead	Boston Scientific Corporation	IS-1 B1 GDT4555	169728
RV Lead	Boston Scientific Corporation	IS-1 B1 CPI0013	310303
LV Lead	Boston Scientific Corporation	IS-4 Nav2 19313	115705

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
RA Lead	No	0.9m	No	Implant	Tissue Simulant
RV Lead	No	1.0m	No	Implant	Tissue Simulant
LV Lead	No	1.0m	No	Implant	Tissue Simulant

Configuration BSTN0835- 2

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Implant	Boston Scientific Corporation	L331	776657

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
RA Lead	Boston Scientific Corporation	IS-1 B1 GDT4555	169728
RV Lead	Boston Scientific Corporation	IS-1 B1 CPI0013	310303

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
RA Lead	No	0.9m	No	Implant	Tissue Simulant
RV Lead	No	1.0m	No	Implant	Tissue Simulant

CONFIGURATIONS

Configuration BSTN0835- 3

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Implant	Boston Scientific Corporation	L300	720522

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
RV Lead	Boston Scientific Corporation	IS-1 B1 CPI0013	310303

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
RV Lead	No	1.0m	No	Implant	Tissue Simulant

CONFIGURATIONS

Configuration BSTN0835- 4

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid Implant Board	Boston Scientific Corporation	E78789-401	75602703

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
DC Power Supply	EZ	GP-4303D	TQK
Hybrid Inductive Antenna	Boston Scientific Corporation	None	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Telemetry Test Module	Boston Scientific Corporation	SE11313-104	TTM1168
Telemetry Wand	Boston Scientific Corporation	6577	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Mains Cable (DC Power Supply)	No	1.8m	No	DC Power Supply	AC Mains
Banana Cables (x2)	No	1.0m	No	DC Power Supply	Hybrid Implant Board
AC Mains Cable (Telemetry Test Module)	No	1.8m	No	Telemetry Test Module	AC Mains
Telemetry Wand Cable	No	3.0m	No	Telemetry Wand	Telemetry Test Module
USB Cable	No	1.0m	No	Laptop	Telemetry Test Module
Hybrid Inductive Antenna Cable	No	0.45m	No	Hybrid Implant Board	Hybrid Inductive Antenna

CONFIGURATIONS

Configuration BSTN0835- 5

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid Implant Board	Boston Scientific Corporation	E78789-401	75602706

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
DC Power Supply	EZ	GP-4303D	TQK
Hybrid Inductive Antenna	Boston Scientific Corporation	None	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Telemetry Test Module	Boston Scientific Corporation	SE11313-104	TTM1168
Telemetry Wand	Boston Scientific Corporation	6577	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Mains Cable (DC Power Supply)	No	1.8m	No	DC Power Supply	AC Mains
Banana Cables (x2)	No	1.0m	No	DC Power Supply	Hybrid Implant Board
AC Mains Cable (Telemetry Test Module)	No	1.8m	No	Telemetry Test Module	AC Mains
Telemetry Wand Cable	No	3.0m	No	Telemetry Wand	Telemetry Test Module
USB Cable	No	1.0m	No	Laptop	Telemetry Test Module
Hybrid Inductive Antenna Cable	No	0.45m	No	Hybrid Implant Board	Hybrid Inductive Antenna

CONFIGURATIONS

Configuration BSTN0835- 6

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Hybrid Implant Board	Boston Scientific Corporation	E78789-401	75602701

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
DC Power Supply	EZ	GP-4303D	TQK
Hybrid Inductive Antenna	Boston Scientific Corporation	None	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Telemetry Test Module	Boston Scientific Corporation	SE11313-104	TTM1168
Telemetry Wand	Boston Scientific Corporation	6577	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Mains Cable (DC Power Supply)	No	1.8m	No	DC Power Supply	AC Mains
Banana Cables (x2)	No	1.0m	No	DC Power Supply	Hybrid Implant Board
AC Mains Cable (Telemetry Test Module)	No	1.8m	No	Telemetry Test Module	AC Mains
Telemetry Wand Cable	No	3.0m	No	Telemetry Wand	Telemetry Test Module
USB Cable	No	1.0m	No	Laptop	Telemetry Test Module
Hybrid Inductive Antenna Cable	No	0.45m	No	Hybrid Implant Board	Hybrid Inductive Antenna

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	5/14/2018	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	5/16/2018	Radiated Power (EIRP)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	5/21/2018	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	5/22/2018	Emission Mask	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	5/22/2018	Emission Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	5/22/2018	Conducted Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	5/22/2018	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

EMISSIONS BANDWIDTH

XMit 2017.12.13

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.	Cal. Due
Meter - Multimeter	Fluke	114	MMU	18-Jul-17	18-Jul-20
Power Supply - DC	EZ Digital Co., Ltd.	GP-4030D	TQK	NCR	NCR
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	15-Mar-18	15-Mar-19
Attenuator	S.M. Electronics	SA26B-20	RFW	13-Feb-18	13-Feb-19
Block - DC	Fairview Microwave	SD3379	AMI	12-Sep-17	12-Sep-18
Analyzer - Spectrum Analyzer	Keysight	N9010A (EXA)	AFQ	19-Dec-17	19-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-17	2-Aug-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per 47 CFR 95.2573(a), the emission bandwidth was determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT.

EMISSIONS BANDWIDTH

TbtTx 2017.12.14 XMit 2017.12.13

EUT:	Ingenio 2			**Work Order:**	BSTN0835
Serial Number:	See Comments			**Date:**	22-May-18
Customer:	Boston Scientific Corporation			**Temperature:**	23.2 °C
Attendees:	Ching Wang			**Humidity:**	46.2% RH
Project:	None			**Barometric Pres.:**	1020 mbar
Tested by:	Dustin Sparks	**Power:**	3.2VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2018	ANSI C63.26:2015

COMMENTS

Three samples tested simultaneously - sample 1 (SN 75602703), sample 2 (SN 75602706), and sample 3 (SN 75602701).

DEVIATIONS FROM TEST STANDARD

None

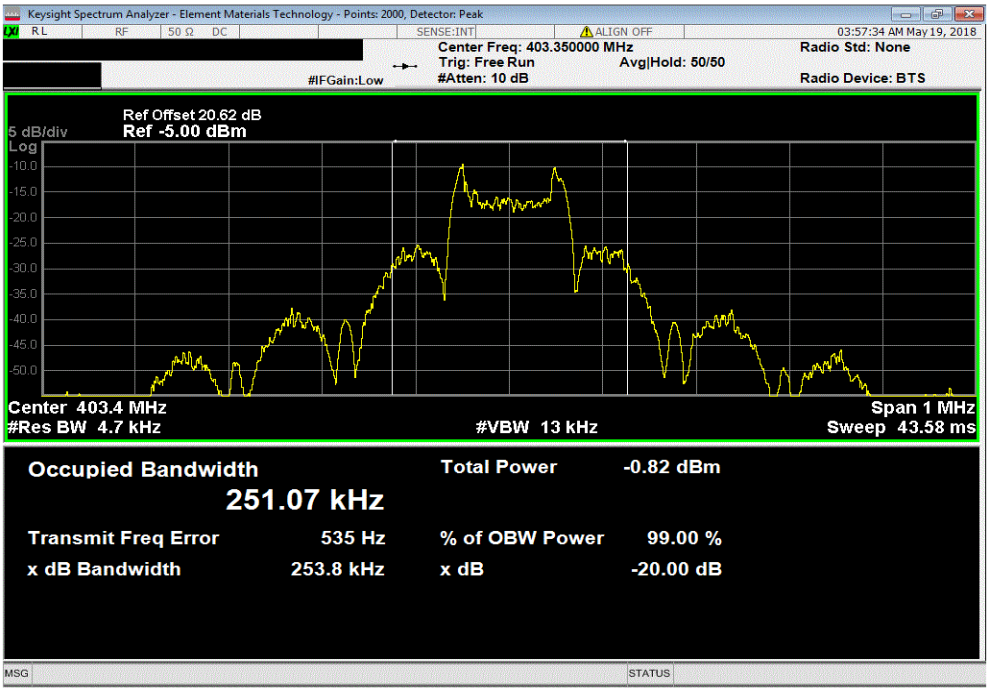
Configuration #	4, 5, 6	Signature Dustin Sparks

	Value	Limit (≤)	Result
Mid Channel, 403.35 MHz	253.8 kHz	300 kHz	Pass
Mid Channel, 403.35 MHz	254.748 kHz	300 kHz	Pass
Mid Channel, 403.35 MHz	249.804 kHz	300 kHz	Pass

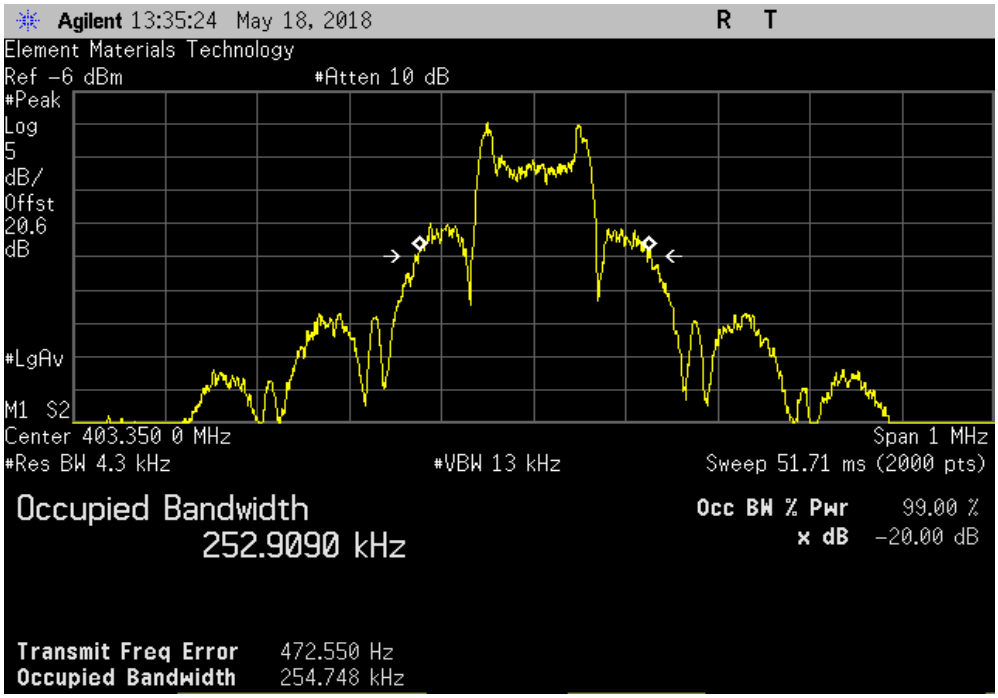
EMISSIONS BANDWIDTH

TbtTx 2017.12.14 XMit 2017.12.13

Mid Channel, 403.35 MHz						
				Value	Limit (≤)	Result
				253.8 kHz	300 kHz	Pass

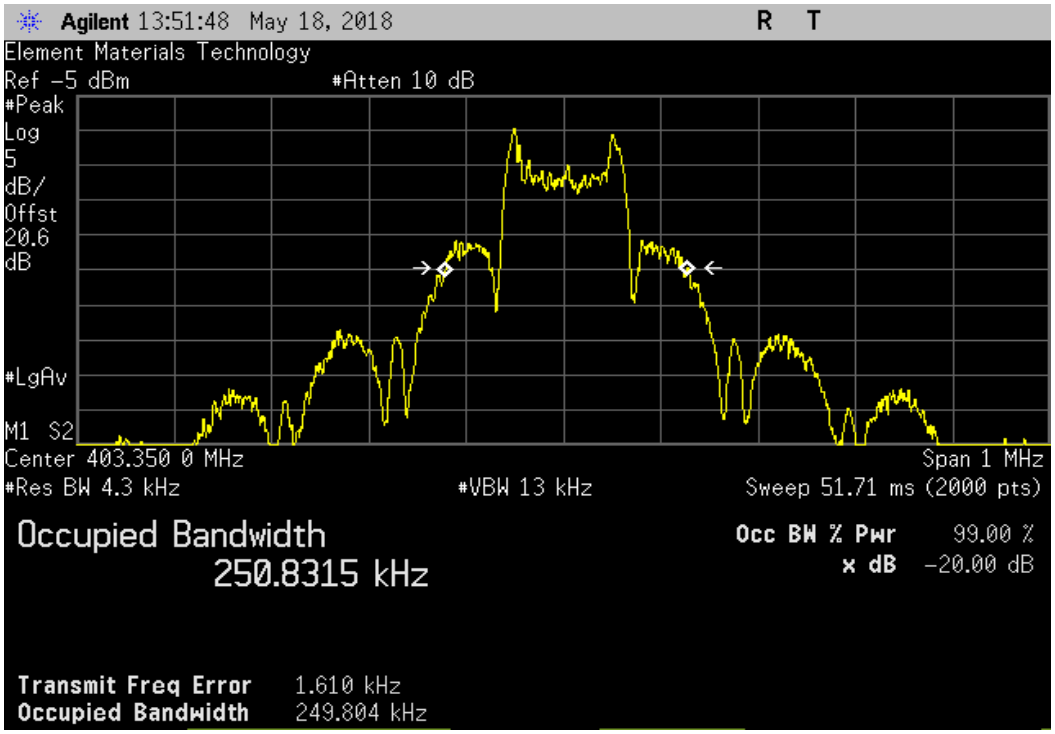


Mid Channel, 403.35 MHz						
				Value	Limit (≤)	Result
				254.748 kHz	300 kHz	Pass



EMISSIONS BANDWIDTH

Mid Channel, 403.35 MHz						
				Value	Limit (≤)	Result
				249.804 kHz	300 kHz	Pass



EMISSIONS MASK

XMit 2017.12.13

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.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A (EXA)	AFQ	19-Dec-17	19-Dec-18
Power Supply - DC	EZ Digital Co., Ltd.	GP-4030D	TQK	NCR	NCR
Meter - Multimeter	Fluke	114	MMU	18-Jul-17	18-Jul-20
Generator - Signal	Agilent	E4422B	TGQ	15-Mar-18	15-Mar-21
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	15-Mar-18	15-Mar-19
Attenuator	S.M. Electronics	SA26B-20	RFW	13-Feb-18	13-Feb-19
Block - DC	Fairview Microwave	SD3379	AMI	12-Sep-17	12-Sep-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-17	2-Aug-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per 47 CFR 95.2579(a)(1) 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 95.2573(a). 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

TbtTx 2017.12.14 XMit 2017.12.13

EUT:	Ingenio 2			**Work Order:**	BSTN0835
Serial Number:	See Comments			**Date:**	22-May-18
Customer:	Boston Scientific Corporation			**Temperature:**	23.5 °C
Attendees:	Ching Wang			**Humidity:**	46.9% RH
Project:	None			**Barometric Pres.:**	1021 mbar
Tested by:	Dustin Sparks	**Power:**	3.2VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2018	ANSI C63.26:2015

COMMENTS

Three samples tested simultaneously - sample 1 (SN 75602703), sample 2 (SN 75602706), and sample 3 (SN 75602701).

DEVIATIONS FROM TEST STANDARD

None

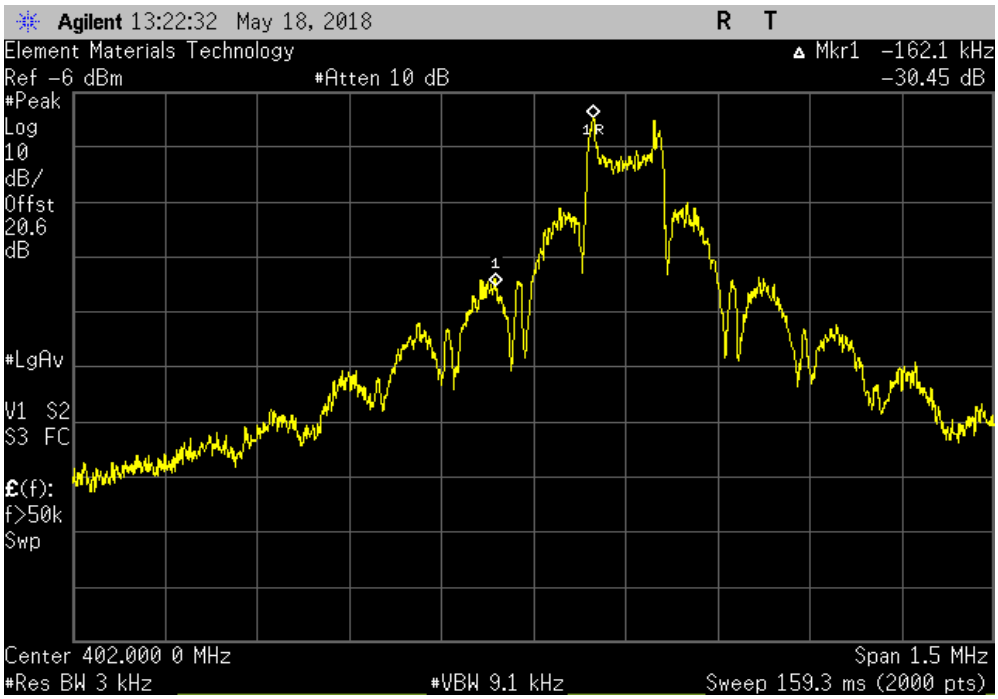
Configuration #	4, 5, 6	Signature Dustin Sparks

	Value (dBc)	Limit ≤ (dBc)	Result
Low Channel, 402.15 MHz	-30.46	-20	Pass
High Channel, 404.85 MHz	-27.72	-20	Pass
Low Channel, 402.15 MHz	-28.67	-20	Pass
High Channel, 404.85 MHz	-29.32	-20	Pass
Low Channel, 402.15 MHz	-28.77	-20	Pass
High Channel, 404.85 MHz	-27.56	-20	Pass

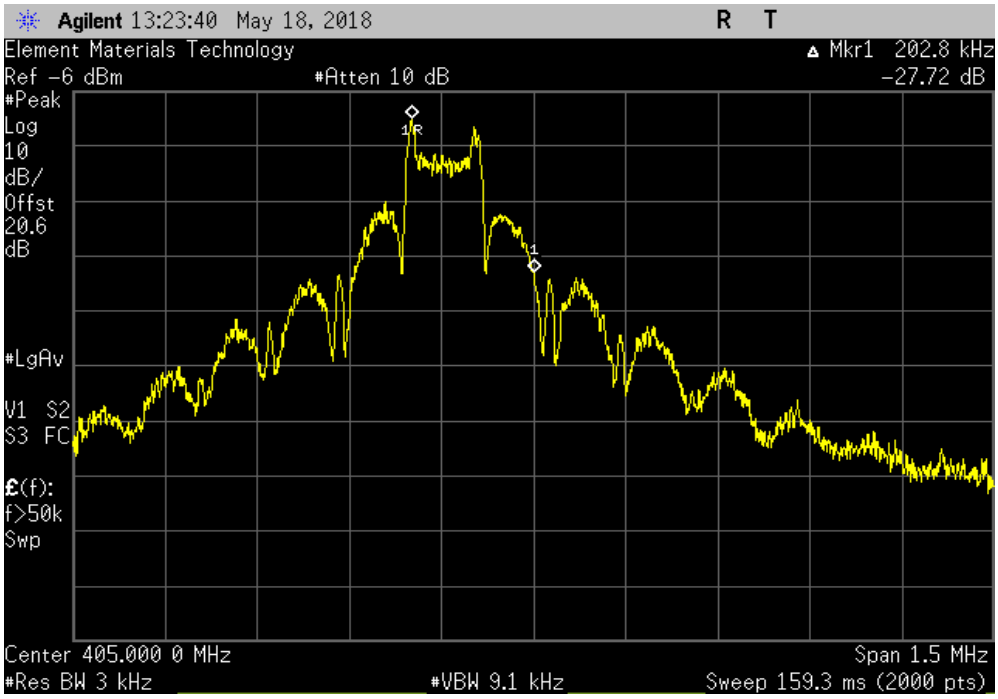
EMISSIONS MASK

TbtTx 2017.12.14 XMit 2017.12.13

Low Channel, 402.15 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-30.46	-20	Pass



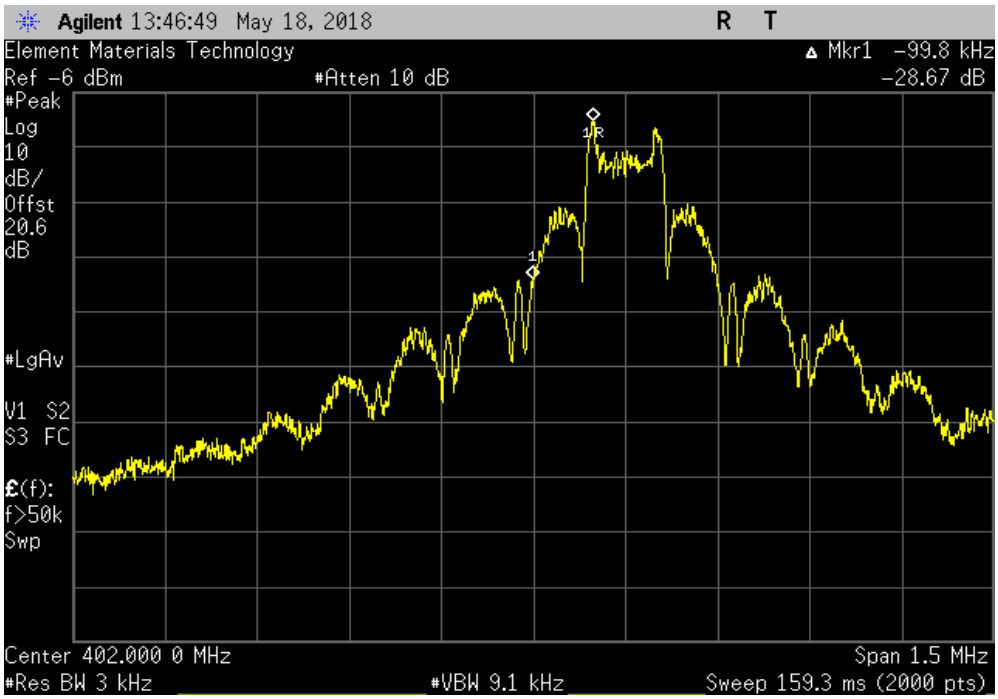
High Channel, 404.85 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-27.72	-20	Pass



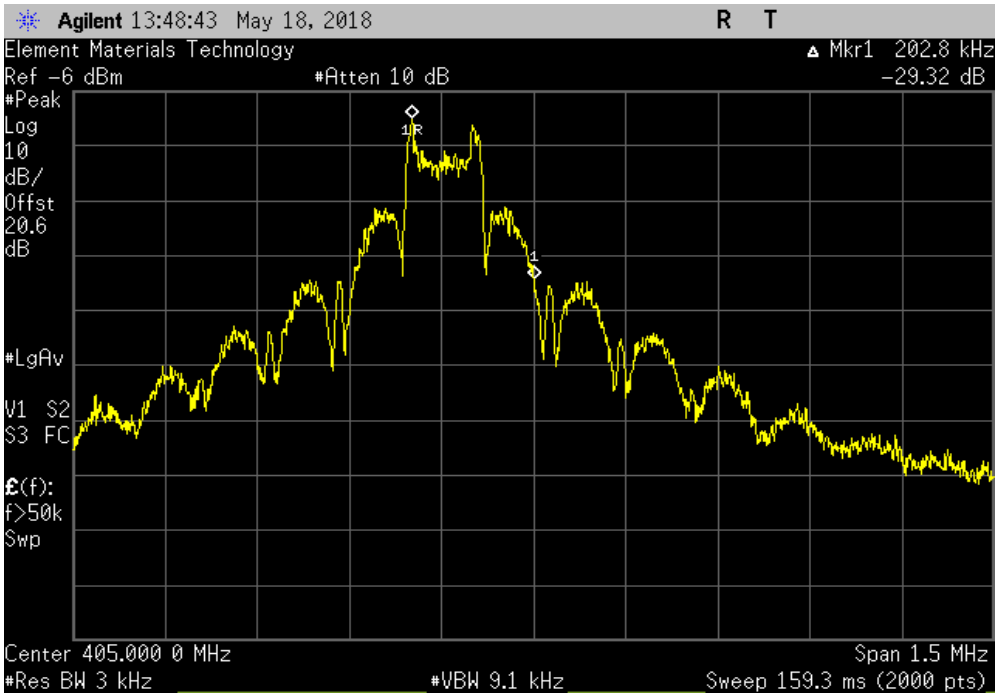
EMISSIONS MASK

TbtTx 2017.12.14 XMit 2017.12.13

Low Channel, 402.15 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-28.67	-20	Pass



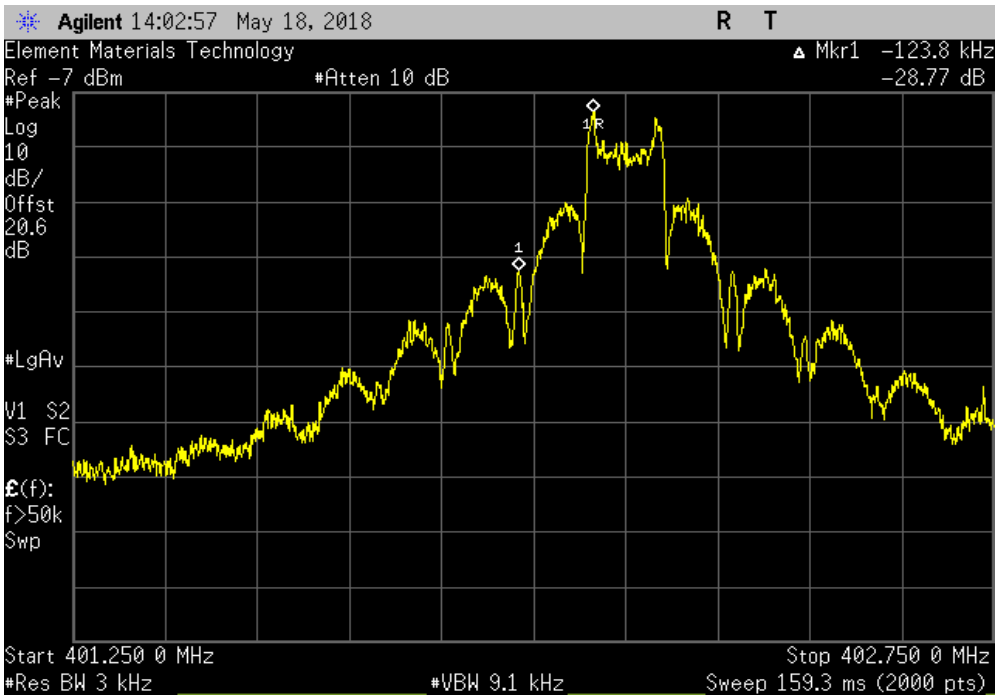
High Channel, 404.85 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-29.32	-20	Pass



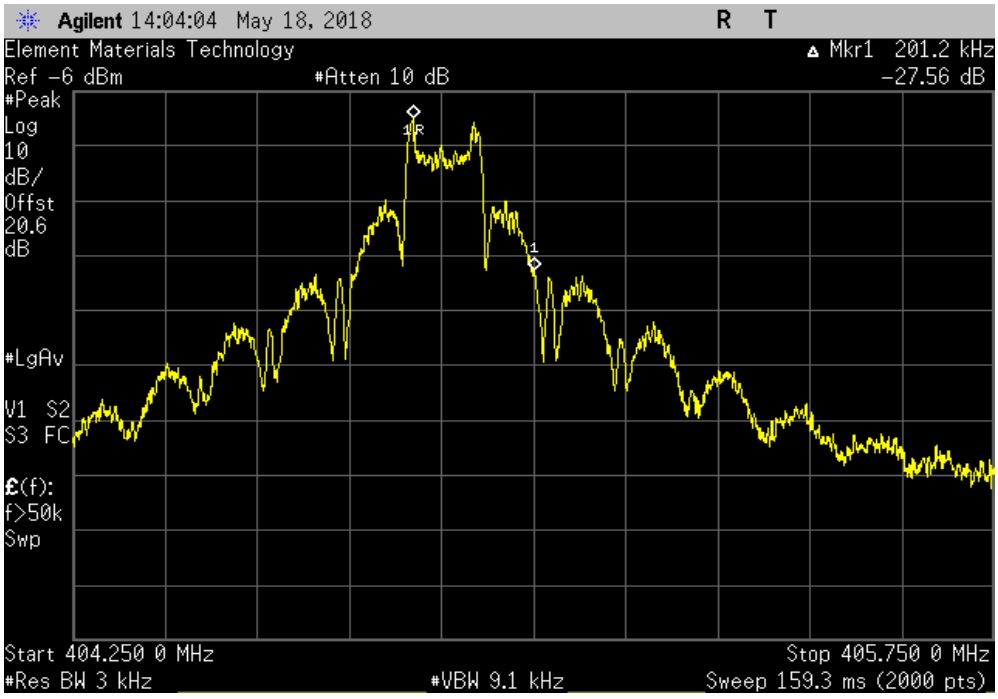
EMISSIONS MASK

TbtTx 2017.12.14 XMit 2017.12.13

Low Channel, 402.15 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-28.77	-20	Pass



High Channel, 404.85 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-27.56	-20	Pass



OUTPUT POWER

XMit 2017.12.13

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.	Cal. Due
Power Supply - DC	EZ Digital Co., Ltd.	GP-4030D	TQK	NCR	NCR
Meter - Multimeter	Fluke	114	MMU	18-Jul-17	18-Jul-20
Generator - Signal	Agilent	E4422B	TGQ	15-Mar-18	15-Mar-21
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	15-Mar-18	15-Mar-19
Attenuator	S.M. Electronics	SA26B-20	RFW	13-Feb-18	13-Feb-19
Block - DC	Fairview Microwave	SD3379	AMI	12-Sep-17	12-Sep-18
Analyzer - Spectrum Analyzer	Keysight	N9010A (EXA)	AFQ	19-Dec-17	19-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-17	2-Aug-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per FCC Part 2.1046, RSS-GEN, the output power shall be measured at the RF terminal. The peak output power was measured with the EUT configured in the modes listed in the datasheet. The EUT was transmitting at its maximum data rate.

FCC Part 95 and RSS-243 have no conducted output power limit. It is a requirement to characterize this information and that data is contained within this datasheet.

OUTPUT POWER

TbtTx 2017.12.14 XMit 2017.12.13

EUT:	Ingenio 2			**Work Order:**	BSTN0835
Serial Number:	See Comments			**Date:**	22-May-18
Customer:	Boston Scientific Corporation			**Temperature:**	23.4 °C
Attendees:	Ching Wang			**Humidity:**	46.9% RH
Project:	None			**Barometric Pres.:**	1021 mbar
Tested by:	Dustin Sparks	**Power:**	3.2VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2018	ANSI C63.26:2015

COMMENTS

Three samples tested simultaneously - sample 1 (SN 75602703), sample 2 (SN 75602706), and sample 3 (SN 75602701).

DEVIATIONS FROM TEST STANDARD

None

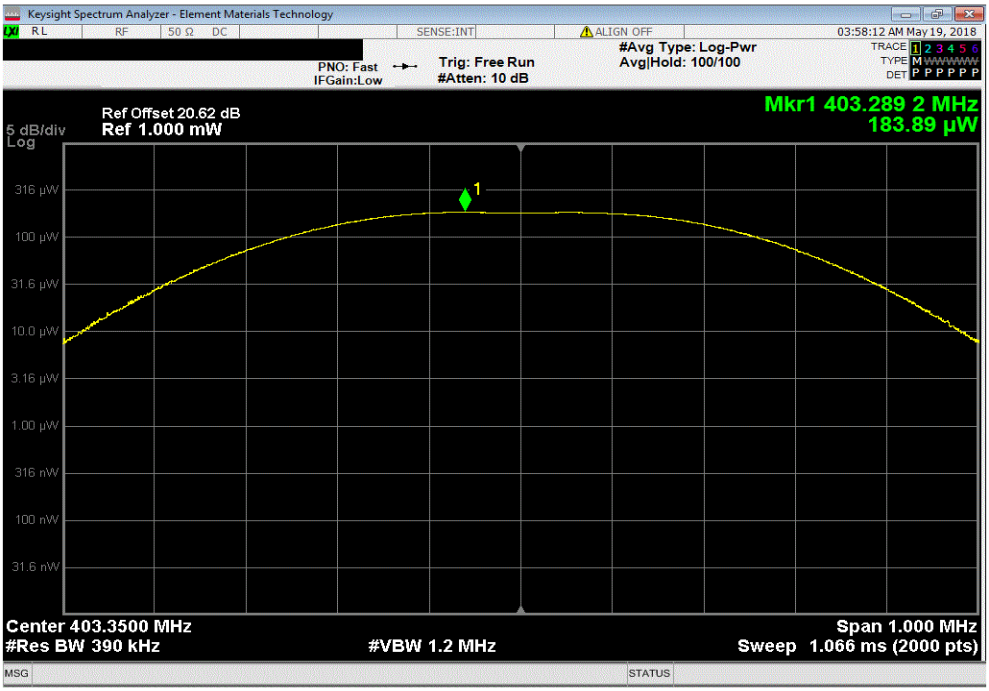
Configuration #	4, 5, 6	Signature Dustin Sparks

	Value	Limit	Result
Mid Channel, 403.35 MHz	183.89 uW	N/A	N/A
Mid Channel, 403.35 MHz	167.148 uW	N/A	N/A
Mid Channel, 403.35 MHz	191.514 uW	N/A	N/A

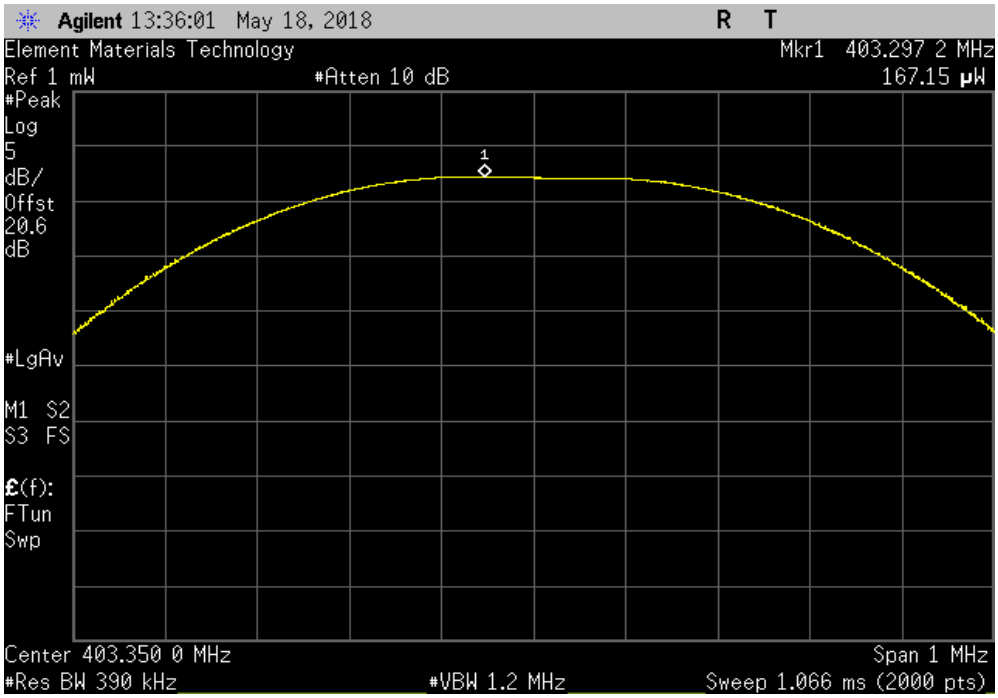
OUTPUT POWER

TbtTx 2017.12.14 XMit 2017.12.13

Mid Channel, 403.35 MHz						
				Value	Limit	Result
				183.89 uW	N/A	N/A



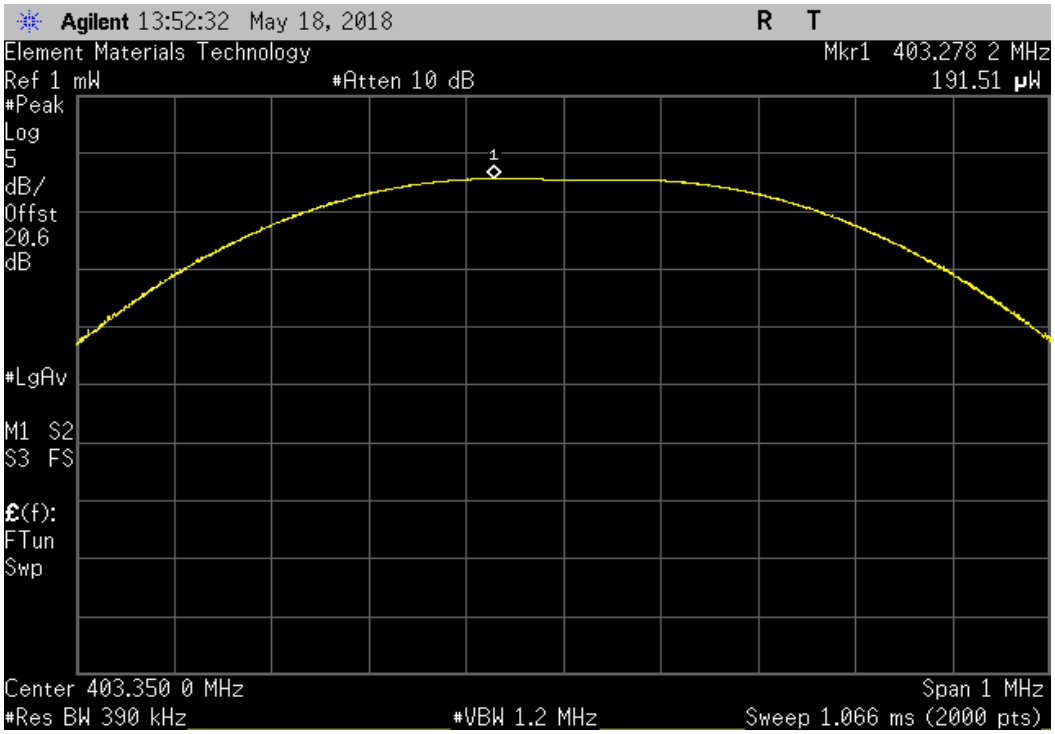
Mid Channel, 403.35 MHz						
				Value	Limit	Result
				167.148 uW	N/A	N/A



OUTPUT POWER

TbtTx 2017.12.14 XMit 2017.12.13

Mid Channel, 403.35 MHz						
				Value	Limit	Result
				191.514 uW	N/A	N/A



FREQUENCY STABILITY

XMit 2017.12.13

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.	Cal. Due
Meter - Multimeter	Fluke	114	MMU	18-Jul-17	18-Jul-20
Chamber - Temperature/Humidity	Cincinnati Sub Zero (CSZ)	ZPH-32-3.5-SCT/AC	TBF	NCR	NCR
Thermometer	Omega Engineering, Inc.	HH311	DUB	10-Nov-17	10-Nov-20
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	15-Mar-18	15-Mar-19
Attenuator	S.M. Electronics	SA26B-20	RFW	13-Feb-18	13-Feb-19
Block - DC	Fairview Microwave	SD3379	AMI	12-Sep-17	12-Sep-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-17	2-Aug-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT 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.

Variation of Supply Voltage
The primary supply voltage was varied from 85% to 115% of the nominal voltage. 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).

FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

EUT:	Ingenio 2			**Work Order:**	BSTN0835
Serial Number:	See Comments			**Date:**	21-May-18
Customer:	Boston Scientific Corporation			**Temperature:**	23.2 °C
Attendees:	Ching Wang			**Humidity:**	39.5% RH
Project:	None			**Barometric Pres.:**	1019 mbar
Tested by:	Dustin Sparks	**Power:**	3.2VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2018	ANSI C63.26:2015

COMMENTS

Three samples tested simultaneously - sample 1 (SN 75602703), sample 2 (SN 75602706), and sample 3 (SN 75602701).

DEVIATIONS FROM TEST STANDARD

None

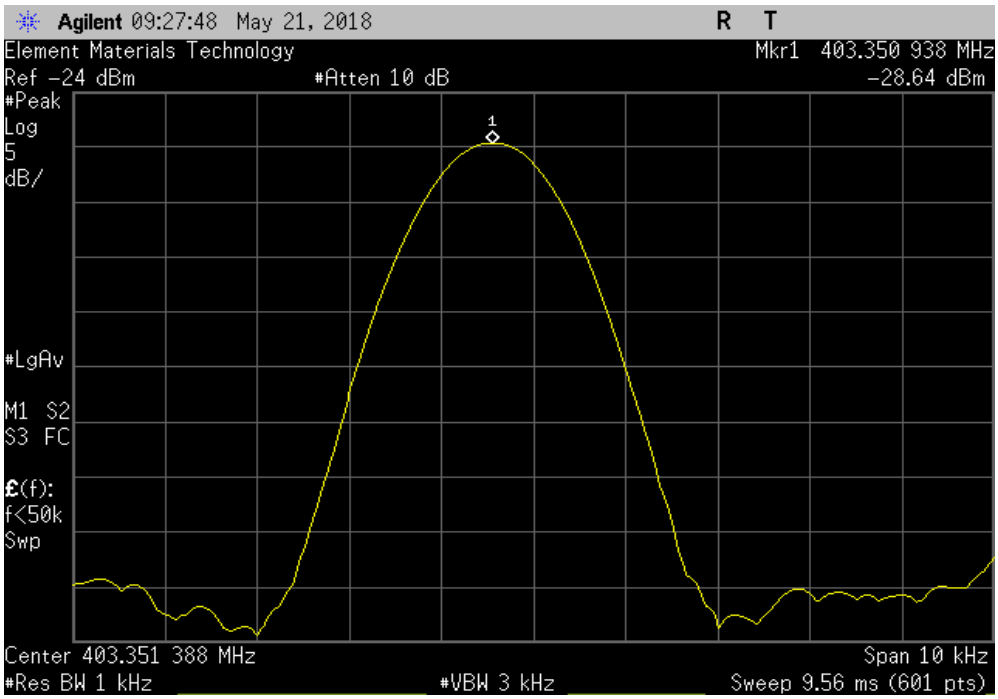
Configuration #	4, 5, 6	Signature

		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
Sample 1						
	Normal Voltage					
	Mid Channel, 403.35 MHz	403.350938	403.35	2.3	100	Pass
	Extreme Voltage +15%					
	Mid Channel, 403.35 MHz	403.350888	403.35	2.2	100	Pass
	Extreme Voltage -15%					
	Mid Channel, 403.35 MHz	403.350871	403.35	2.2	100	Pass
	25°C					
	Mid Channel, 403.35 MHz	403.350587	403.35	1.5	100	Pass
	35°C					
	Mid Channel, 403.35 MHz	403.349952	403.35	0.1	100	Pass
	45°C					
	Mid Channel, 403.35 MHz	403.349185	403.35	2	100	Pass
Sample 2						
	Normal Voltage					
	Mid Channel, 403.35 MHz	403.350854	403.35	2.1	100	Pass
	Extreme Voltage +15%					
	Mid Channel, 403.35 MHz	403.350854	403.35	2.1	100	Pass
	Extreme Voltage -15%					
	Mid Channel, 403.35 MHz	403.350871	403.35	2.2	100	Pass
	25°C					
	Mid Channel, 403.35 MHz	403.350704	403.35	1.8	100	Pass
	35°C					
	Mid Channel, 403.35 MHz	403.349685	403.35	0.8	100	Pass
	45°C					
	Mid Channel, 403.35 MHz	403.348918	403.35	2.7	100	Pass
Sample 3						
	Normal Voltage					
	Mid Channel, 403.35 MHz	403.351187	403.35	2.9	100	Pass
	Extreme Voltage +15%					
	Mid Channel, 403.35 MHz	403.351187	403.35	2.9	100	Pass
	Extreme Voltage -15%					
	Mid Channel, 403.35 MHz	403.351171	403.35	2.9	100	Pass
	25°C					
	Mid Channel, 403.35 MHz	403.351022	403.35	2.5	100	Pass
	35°C					
	Mid Channel, 403.35 MHz	403.350103	403.35	0.3	100	Pass
	45°C					
	Mid Channel, 403.35 MHz	403.349185	403.35	2	100	Pass

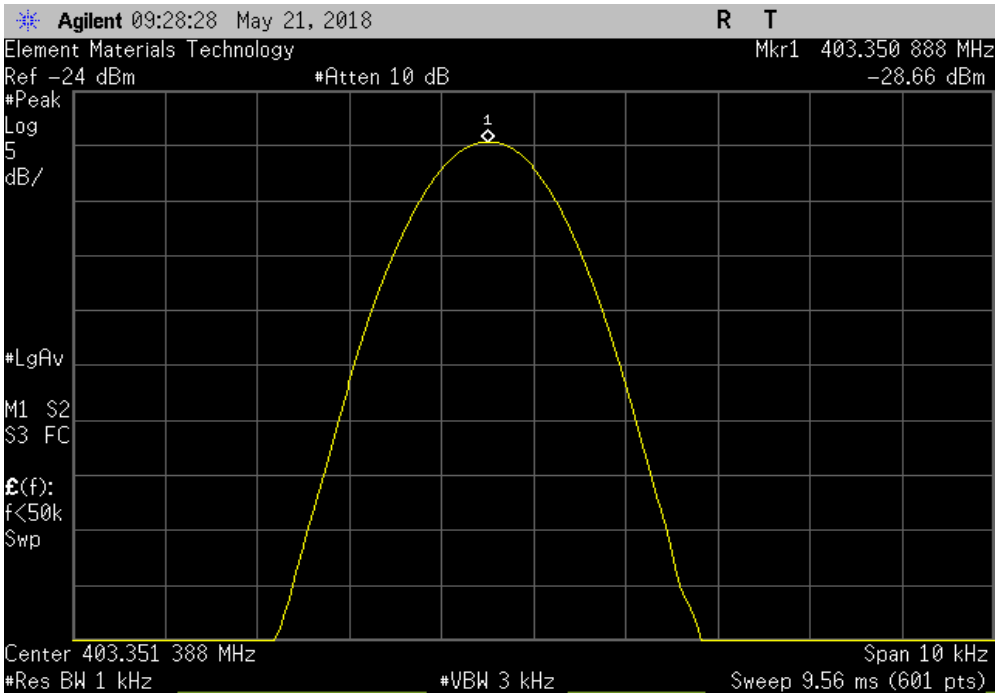
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 1, Normal Voltage, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350938	403.35	2.3	100	Pass



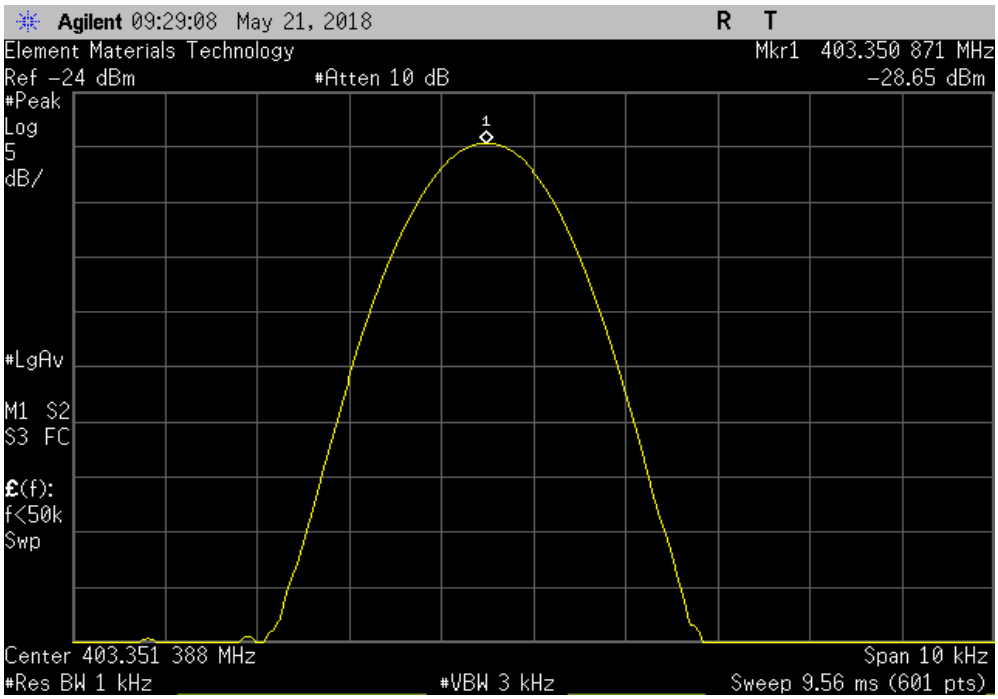
Sample 1, Extreme Voltage +15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350888	403.35	2.2	100	Pass



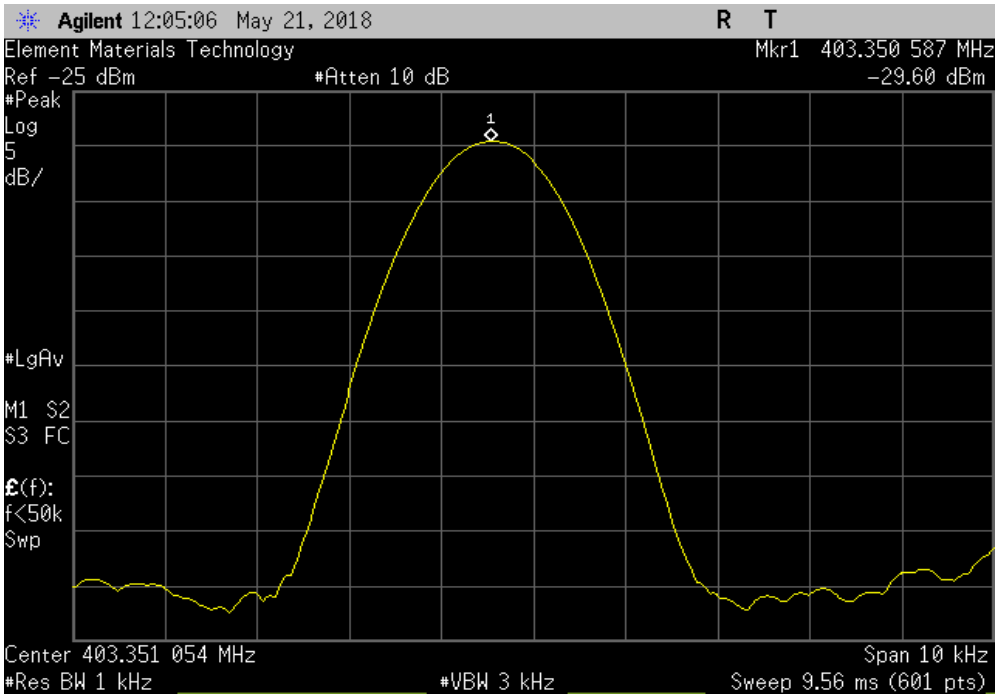
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 1, Extreme Voltage -15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350871	403.35	2.2	100	Pass



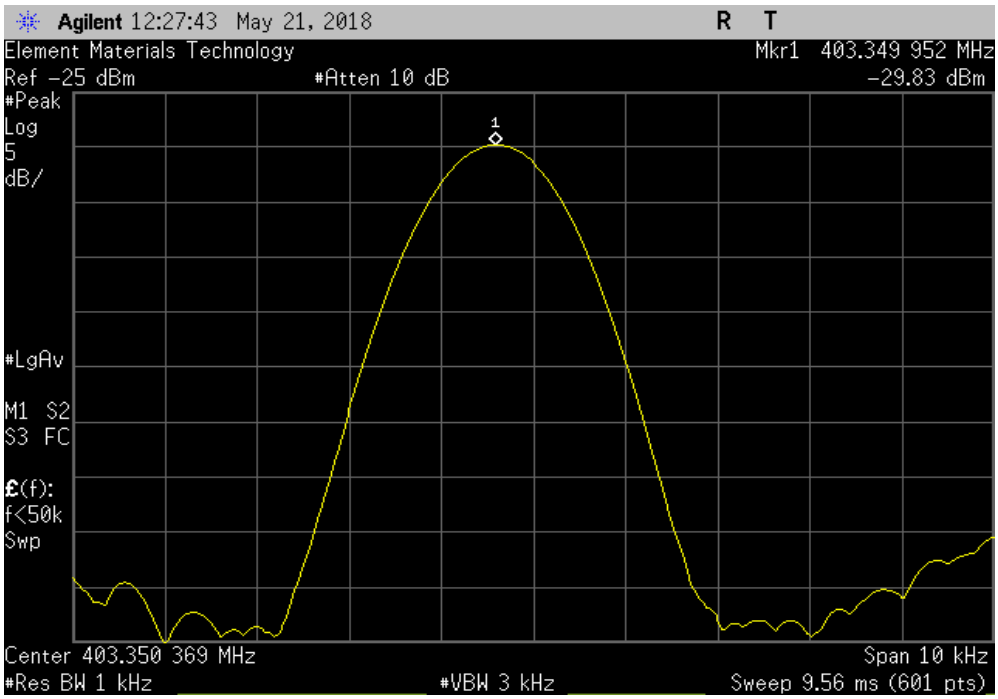
Sample 1, 25°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350587	403.35	1.5	100	Pass



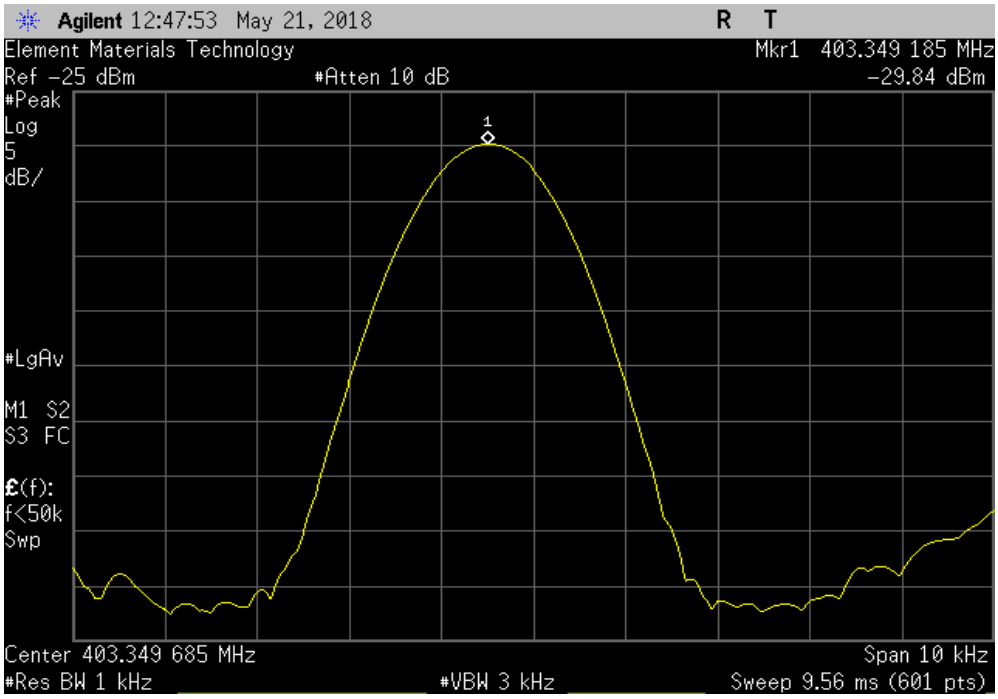
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 1, 35°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.349952	403.35	0.1	100	Pass



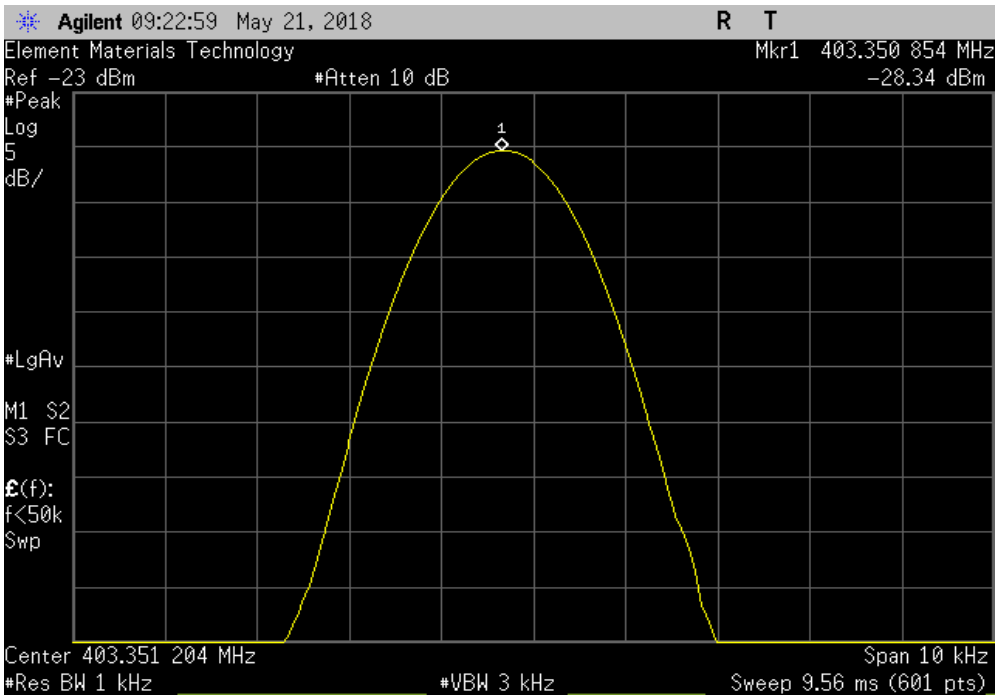
Sample 1, 45°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.349185	403.35	2	100	Pass



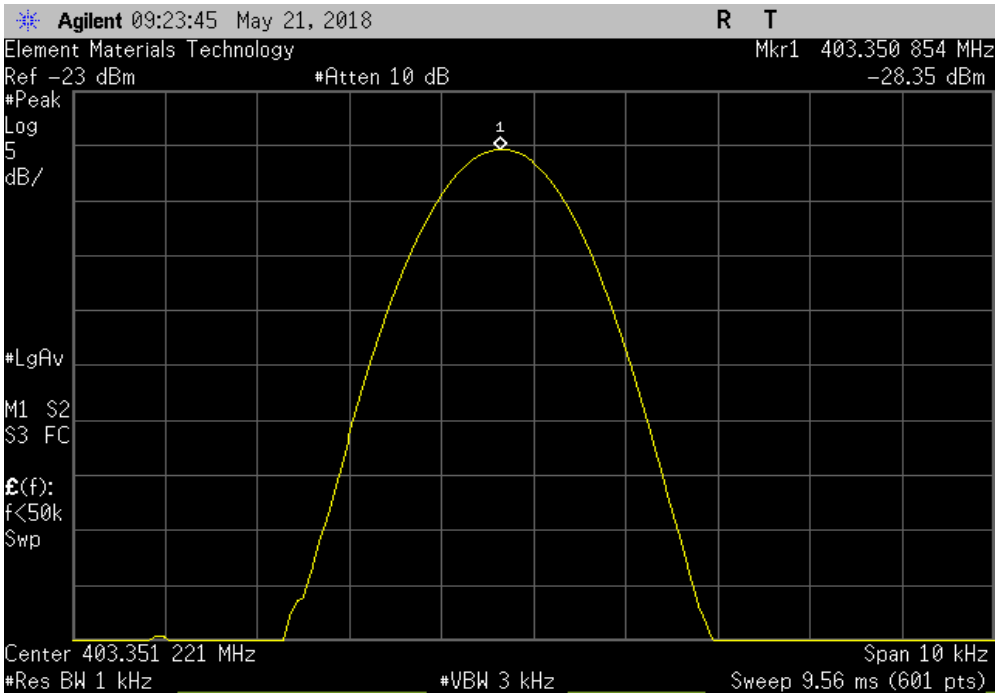
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 2, Normal Voltage, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350854	403.35	2.1	100	Pass



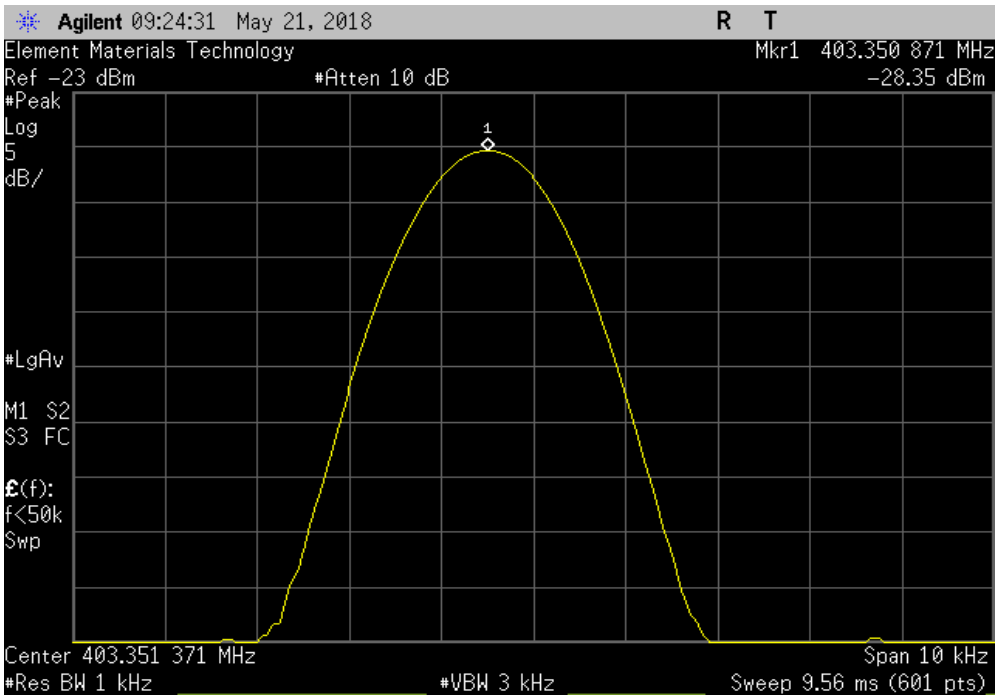
Sample 2, Extreme Voltage +15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350854	403.35	2.1	100	Pass



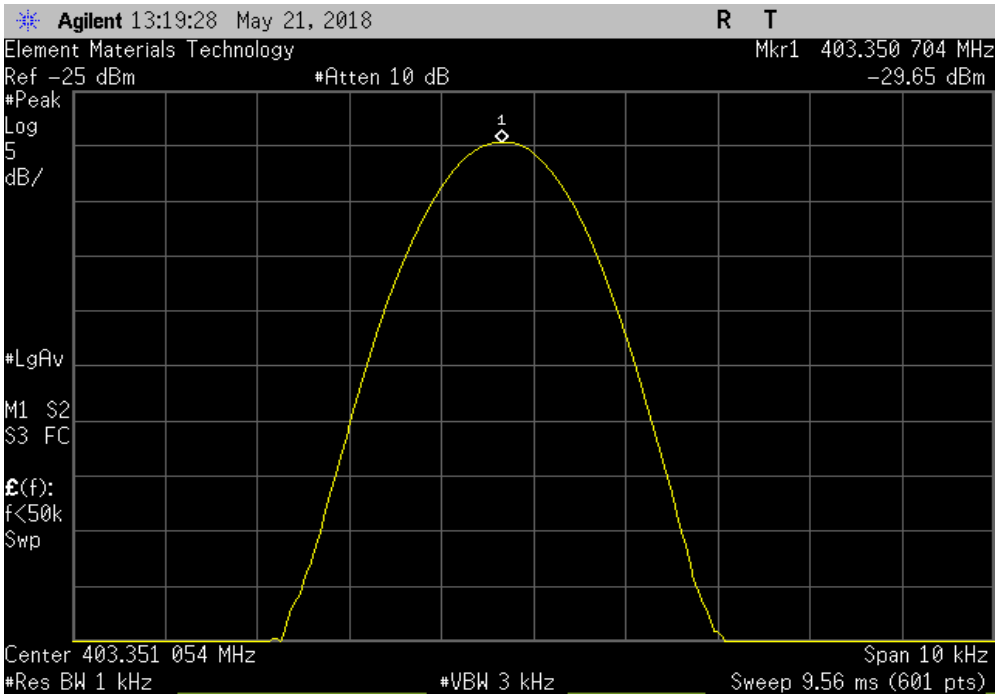
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 2, Extreme Voltage -15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350871	403.35	2.2	100	Pass



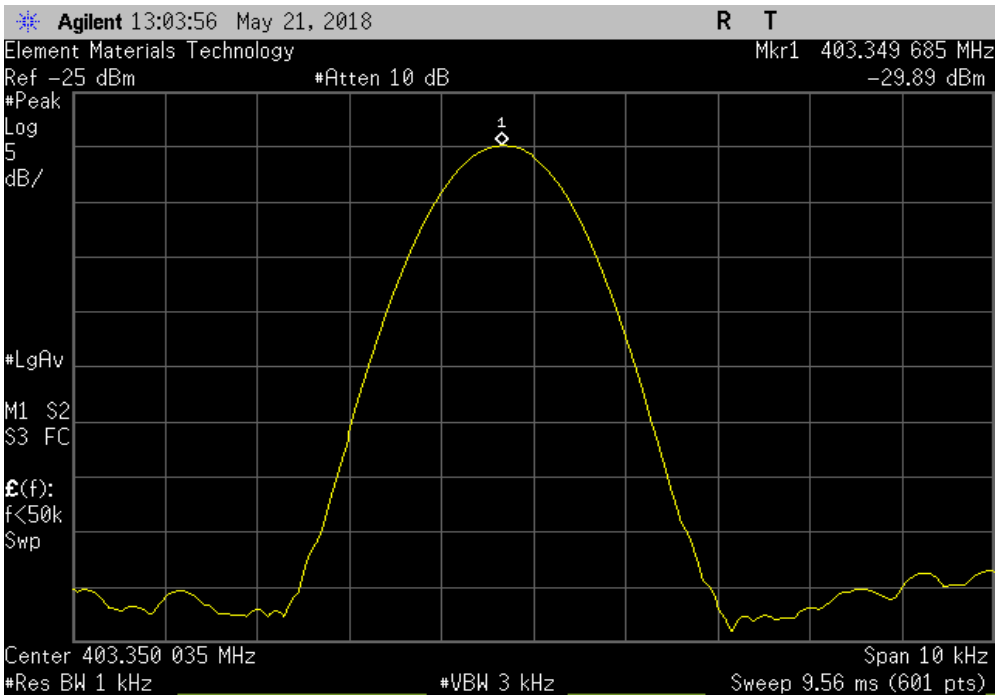
Sample 2, 25°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350704	403.35	1.8	100	Pass



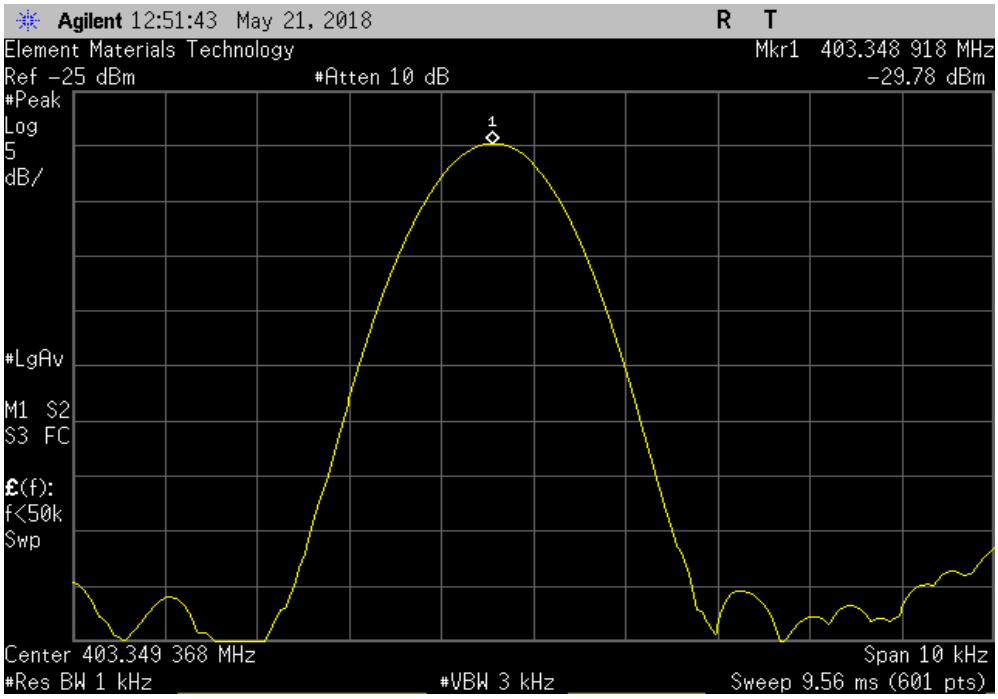
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 2, 35°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.349685	403.35	0.8	100	Pass



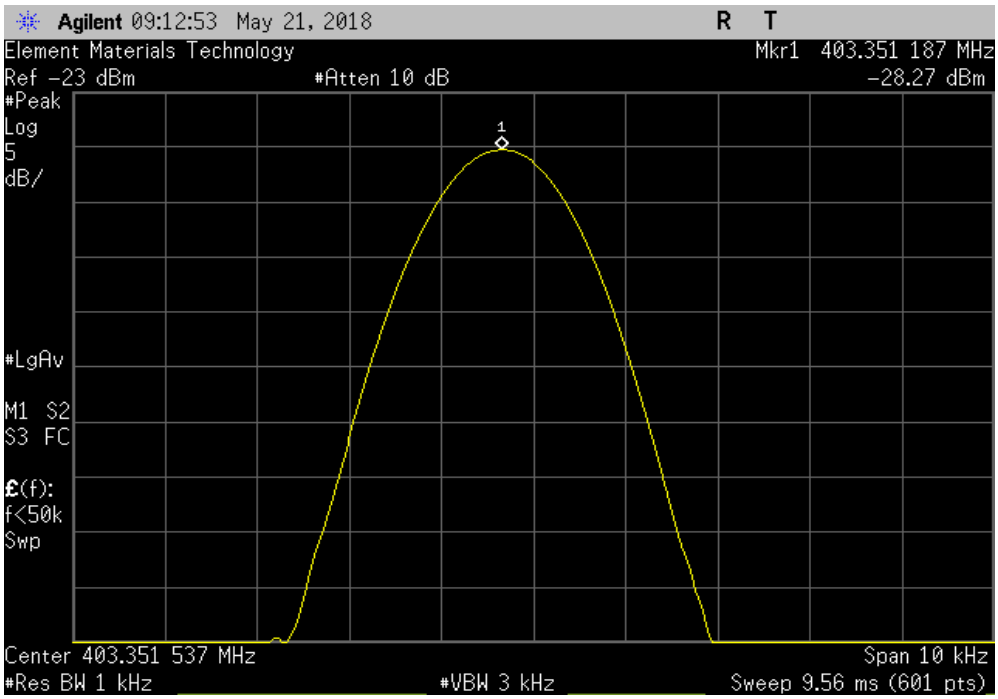
Sample 2, 45°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.348918	403.35	2.7	100	Pass



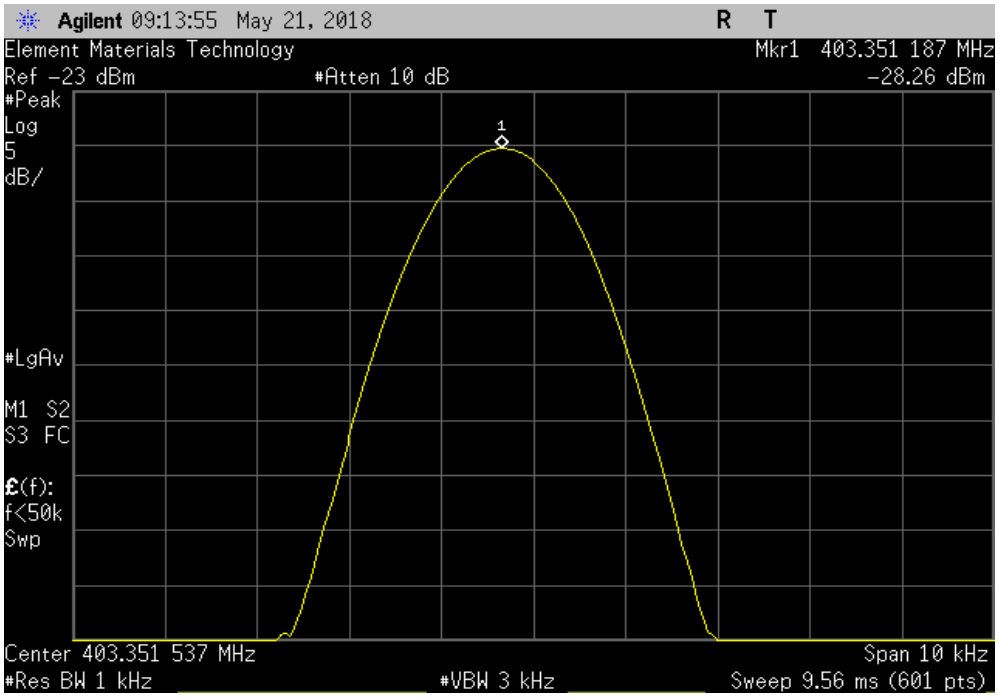
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 3, Normal Voltage, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.351187	403.35	2.9	100	Pass



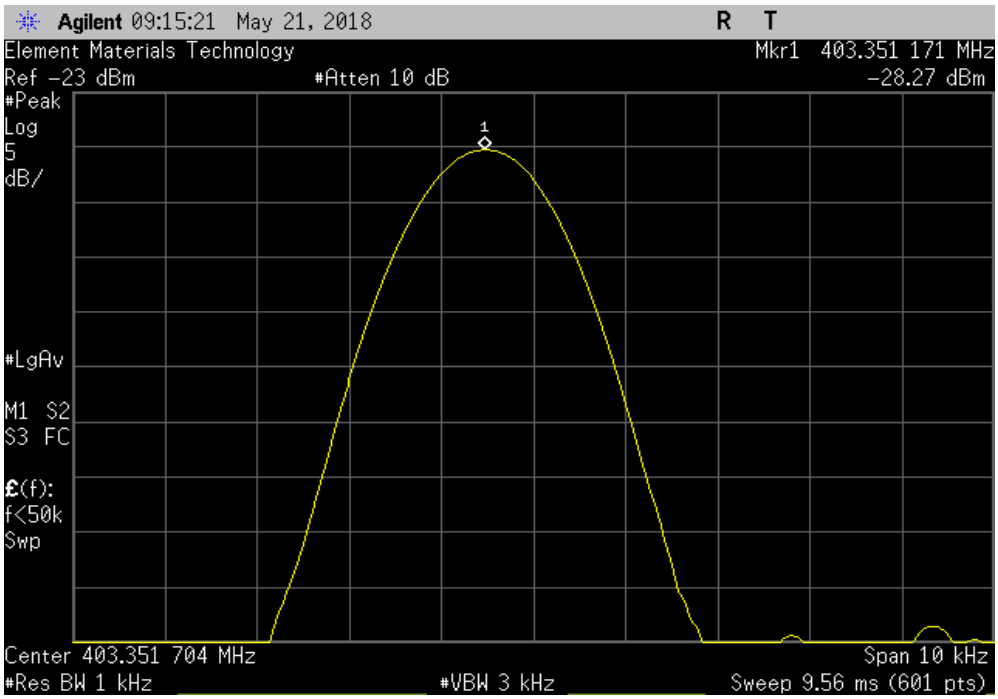
Sample 3, Extreme Voltage +15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.351187	403.35	2.9	100	Pass



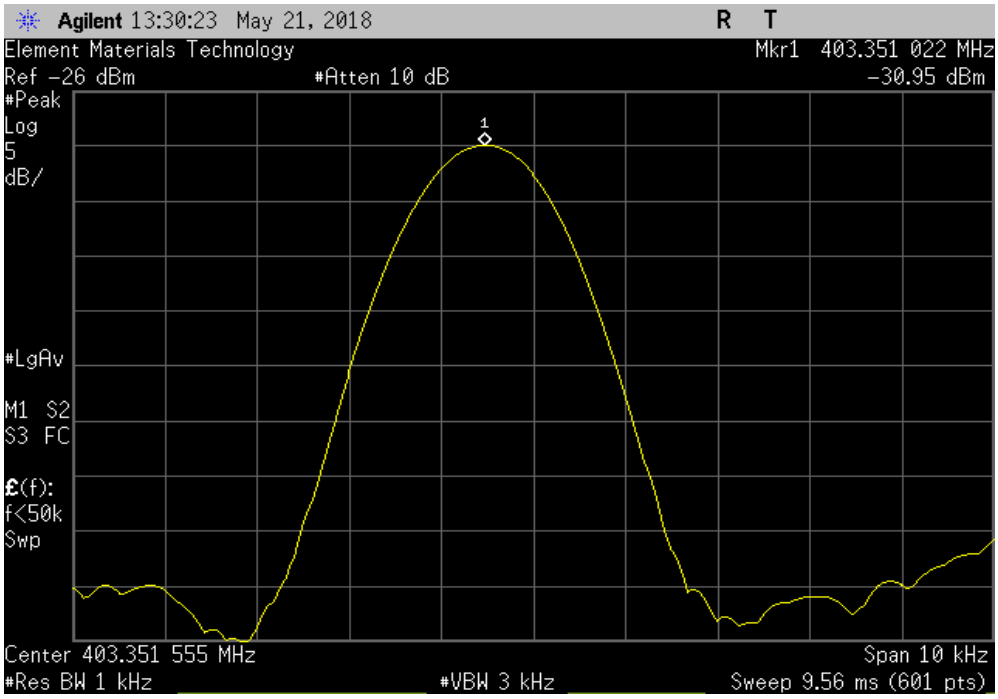
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 3, Extreme Voltage -15%, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.351171	403.35	2.9	100	Pass



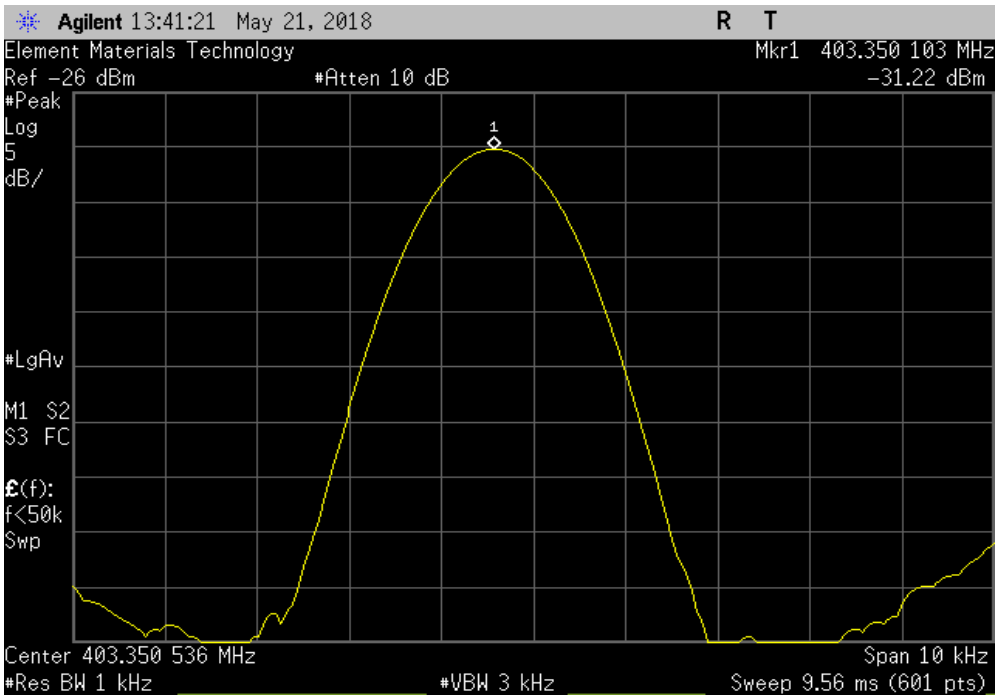
Sample 3, 25°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.351022	403.35	2.5	100	Pass



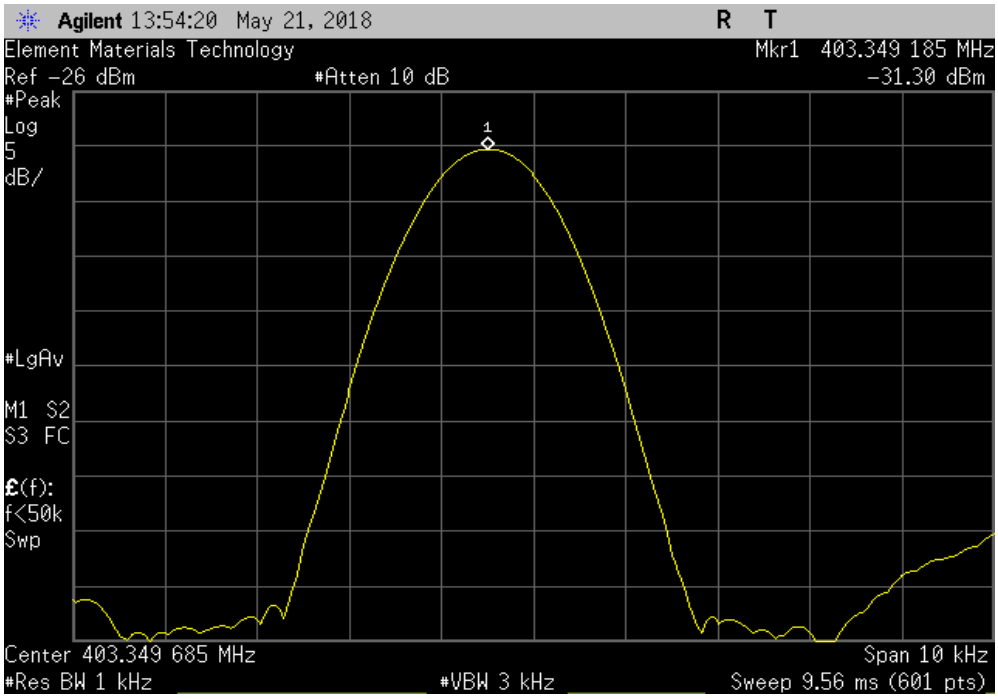
FREQUENCY STABILITY

TbtTx 2017.12.14 XMit 2017.12.13

Sample 3, 35°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.350103	403.35	0.3	100	Pass



Sample 3, 45°C, Mid Channel, 403.35 MHz						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
		403.349185	403.35	2	100	Pass



SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2018.03.06

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting MICS - low channel (402.15 MHz), mid channel (403.35 MHz), and high channel (404.85 MHz) modulated

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0835 - 1
BSTN0835 - 2
BSTN0835 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVT	13-Feb-2018	12 mo
Cable	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	21-Nov-2017	12 mo
Antenna - Double Ridge	ETS Lindgren	3115	AJA	23-Jun-2016	24 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AVO	9-Nov-2017	12 mo
Cable	ESM Cable Corp.	Bilog Cables	MNH	9-Nov-2017	12 mo
Antenna - Biconilog	Teseq	CBL 6141B	AYD	25-Jan-2018	24 mo
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-2017	12 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. 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 C63.26). A preamp was used for this test in order to provide sufficient measurement sensitivity.

Per CFR 47 95.2579(a), field strength measurements were performed and compared to the specified limits.

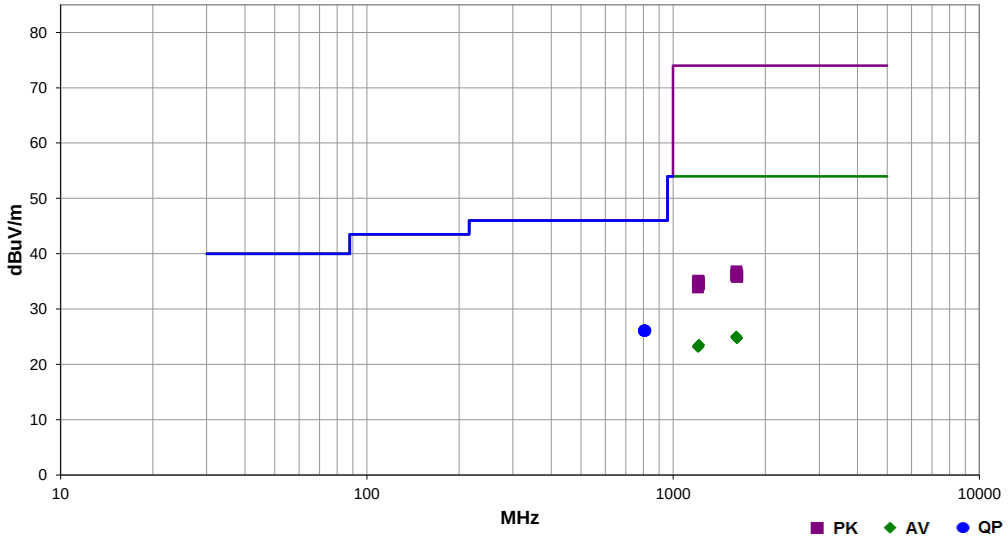
SPURIOUS RADIATED EMISSIONS

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	14-May-2018		
Project:	None	**Temperature:**	23 °C		
Job Site:	MN05	**Humidity:**	47.2% RH		
Serial Number:	728066	**Barometric Pres.:**	1016 mbar	**Tested by:**	Dustin Sparks
EUT:	Ingenio 2				
Configuration:	1				
Customer:	Boston Scientific Corporation				
Attendees:	Ching Wang				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS - low channel (402.15 MHz), mid channel (403.35 MHz), and high channel (404.85 MHz) modulated				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

Run #	7	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
804.536	15.7	10.4	1.0	250.9	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Low ch, EUT vertical
804.461	15.7	10.4	1.0	258.9	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Low ch, EUT vertical
803.971	15.7	10.4	1.0	149.1	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Low ch, EUT on side
803.501	15.7	10.4	1.0	23.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Low ch, EUT on side
804.526	15.7	10.4	1.0	231.0	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Low ch, EUT horizontal
805.227	15.7	10.4	1.0	163.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Low ch, EUT horizontal
806.487	15.7	10.4	2.3	145.1	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
806.713	15.7	10.4	1.0	339.0	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
811.011	15.7	10.4	1.0	120.1	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	High ch, EUT vertical
810.500	15.7	10.4	1.1	235.9	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT vertical
1609.225	31.0	-6.0	1.0	194.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	Low ch, EUT vertical
1608.208	31.0	-6.0	1.0	55.1	3.0	0.0	Vert	AV	0.0	25.0	54.0	-29.0	Low ch, EUT vertical
1611.692	30.9	-6.0	3.1	137.1	3.0	0.0	Horz	AV	0.0	24.9	54.0	-29.1	Mid ch, EUT vertical
1611.925	30.8	-6.0	1.0	246.9	3.0	0.0	Vert	AV	0.0	24.8	54.0	-29.2	Mid ch, EUT vertical
1617.833	30.6	-5.9	1.0	96.0	3.0	0.0	Horz	AV	0.0	24.7	54.0	-29.3	High ch, EUT vertical
1617.608	30.6	-5.9	1.0	24.0	3.0	0.0	Vert	AV	0.0	24.7	54.0	-29.3	High ch, EUT vertical
1214.983	31.6	-8.1	1.3	118.0	3.0	0.0	Horz	AV	0.0	23.5	54.0	-30.5	High ch, EUT vertical
1214.258	31.6	-8.1	1.6	66.1	3.0	0.0	Vert	AV	0.0	23.5	54.0	-30.5	High ch, EUT vertical
1211.725	31.5	-8.3	1.0	185.1	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	Mid ch, EUT vertical
1209.808	31.5	-8.3	2.4	44.1	3.0	0.0	Vert	AV	0.0	23.2	54.0	-30.8	Mid ch, EUT vertical
1207.908	31.5	-8.3	1.0	275.9	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	Low ch, EUT vertical
1204.300	31.5	-8.3	1.0	335.0	3.0	0.0	Vert	AV	0.0	23.2	54.0	-30.8	Low ch, EUT vertical
1610.017	42.8	-6.0	1.0	55.1	3.0	0.0	Vert	PK	0.0	36.8	74.0	-37.2	Low ch, EUT vertical
1612.942	42.3	-6.0	3.1	137.1	3.0	0.0	Horz	PK	0.0	36.3	74.0	-37.7	Mid ch, EUT vertical
1619.317	42.0	-5.9	1.0	24.0	3.0	0.0	Vert	PK	0.0	36.1	74.0	-37.9	High ch, EUT vertical
1606.825	42.1	-6.0	1.0	194.0	3.0	0.0	Horz	PK	0.0	36.1	74.0	-37.9	Low ch, EUT vertical
1611.942	42.0	-6.0	1.0	246.9	3.0	0.0	Vert	PK	0.0	36.0	74.0	-38.0	Mid ch, EUT vertical
1618.633	41.7	-5.9	1.0	96.0	3.0	0.0	Horz	PK	0.0	35.8	74.0	-38.2	High ch, EUT vertical
1207.950	43.4	-8.3	1.0	185.1	3.0	0.0	Horz	PK	0.0	35.1	74.0	-38.9	Mid ch, EUT vertical
1213.067	43.1	-8.1	1.3	118.0	3.0	0.0	Horz	PK	0.0	35.0	74.0	-39.0	High ch, EUT vertical
1205.225	43.2	-8.3	1.0	275.9	3.0	0.0	Horz	PK	0.0	34.9	74.0	-39.1	Low ch, EUT vertical
1212.492	42.7	-8.2	1.6	66.1	3.0	0.0	Vert	PK	0.0	34.5	74.0	-39.5	High ch, EUT vertical
1212.533	42.5	-8.1	2.4	44.1	3.0	0.0	Vert	PK	0.0	34.4	74.0	-39.6	Mid ch, EUT vertical
1205.858	42.2	-8.3	1.0	335.0	3.0	0.0	Vert	PK	0.0	33.9	74.0	-40.1	Low ch, EUT vertical

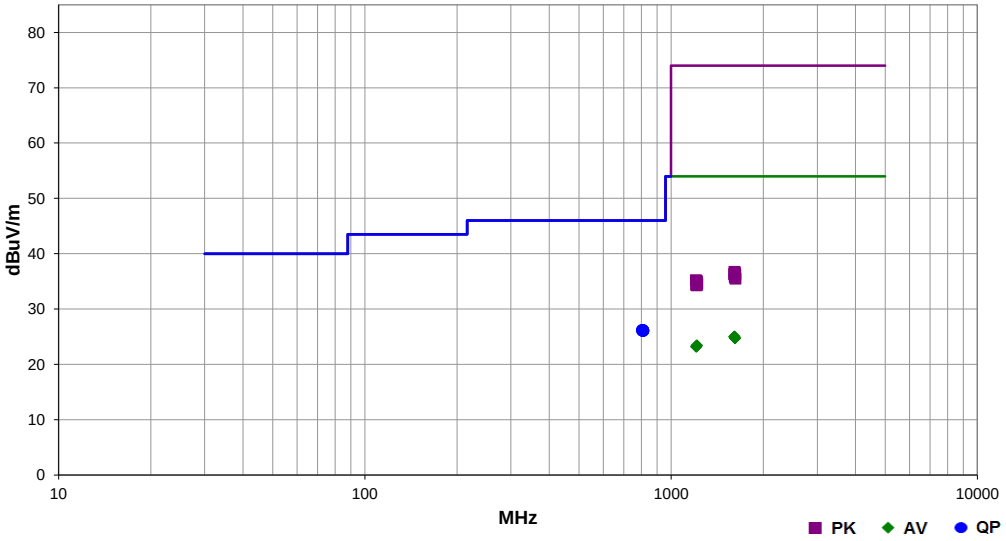
SPURIOUS RADIATED EMISSIONS

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	14-May-2018		
Project:	None	**Temperature:**	23 °C		
Job Site:	MN05	**Humidity:**	47.2% RH		
Serial Number:	776657	**Barometric Pres.:**	1016 mbar	**Tested by:**	Dustin Sparks
EUT:	Ingenio 2				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	Ching Wang				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS - low channel (402.15 MHz), mid channel (403.35 MHz), and high channel (404.85 MHz) modulated				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

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



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
809.335	15.7	10.5	1.0	63.0	3.0	0.0	Horz	QP	0.0	26.2	46.0	-19.8	High ch, EUT vertical
802.843	15.7	10.5	1.7	154.0	3.0	0.0	Horz	QP	0.0	26.2	46.0	-19.8	Low ch, EUT vertical
810.692	15.7	10.4	1.0	199.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT vertical
810.741	15.7	10.4	1.0	310.0	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	High ch, EUT on side
810.744	15.7	10.4	1.0	281.0	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT on side
810.320	15.7	10.4	3.9	325.9	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	High ch, EUT horizontal
809.757	15.7	10.4	1.0	10.0	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT horizontal
806.385	15.7	10.4	1.0	61.0	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
806.037	15.7	10.4	2.2	229.0	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
804.503	15.7	10.4	1.0	184.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Low ch, EUT vertical
1609.275	31.0	-6.0	1.0	110.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	Low ch, EUT vertical
1607.050	31.0	-6.0	1.0	61.0	3.0	0.0	Vert	AV	0.0	25.0	54.0	-29.0	Low ch, EUT vertical
1612.292	31.0	-6.0	1.0	31.0	3.0	0.0	Horz	AV	0.0	25.0	54.0	-29.0	Mid ch, EUT vertical
1611.983	30.9	-6.0	3.3	294.9	3.0	0.0	Vert	AV	0.0	24.9	54.0	-29.1	Mid ch, EUT vertical
1617.275	30.6	-5.9	1.0	275.0	3.0	0.0	Horz	AV	0.0	24.7	54.0	-29.3	High ch, EUT vertical
1617.617	30.6	-5.9	1.0	330.9	3.0	0.0	Vert	AV	0.0	24.7	54.0	-29.3	High ch, EUT vertical
1212.383	31.6	-8.2	1.0	91.1	3.0	0.0	Horz	AV	0.0	23.4	54.0	-30.6	High ch, EUT vertical
1214.933	31.5	-8.1	1.0	33.1	3.0	0.0	Vert	AV	0.0	23.4	54.0	-30.6	High ch, EUT vertical
1211.542	31.6	-8.3	1.0	235.9	3.0	0.0	Vert	AV	0.0	23.3	54.0	-30.7	Mid ch, EUT vertical
1208.367	31.5	-8.3	1.0	303.0	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	Low ch, EUT vertical
1208.625	31.5	-8.3	1.0	300.0	3.0	0.0	Vert	AV	0.0	23.2	54.0	-30.8	Low ch, EUT vertical
1209.417	31.5	-8.3	1.0	160.1	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	Mid ch, EUT vertical
1610.550	42.7	-6.0	1.0	61.0	3.0	0.0	Vert	PK	0.0	36.7	74.0	-37.3	Low ch, EUT vertical
1614.942	42.5	-6.0	1.0	31.0	3.0	0.0	Horz	PK	0.0	36.5	74.0	-37.5	Mid ch, EUT vertical
1606.442	42.3	-6.0	1.0	110.0	3.0	0.0	Horz	PK	0.0	36.3	74.0	-37.7	Low ch, EUT vertical
1620.150	42.1	-5.9	1.0	330.9	3.0	0.0	Vert	PK	0.0	36.2	74.0	-37.8	High ch, EUT vertical
1614.067	41.8	-6.0	3.3	294.9	3.0	0.0	Vert	PK	0.0	35.8	74.0	-38.2	Mid ch, EUT vertical
1621.417	41.4	-5.9	1.0	275.0	3.0	0.0	Horz	PK	0.0	35.5	74.0	-38.5	High ch, EUT vertical
1204.867	43.5	-8.3	1.0	303.0	3.0	0.0	Horz	PK	0.0	35.2	74.0	-38.8	Low ch, EUT vertical
1216.067	43.1	-8.1	1.0	91.1	3.0	0.0	Horz	PK	0.0	35.0	74.0	-39.0	High ch, EUT vertical
1217.025	42.6	-8.1	1.0	33.1	3.0	0.0	Vert	PK	0.0	34.5	74.0	-39.5	High ch, EUT vertical
1208.908	42.7	-8.3	1.0	300.0	3.0	0.0	Vert	PK	0.0	34.4	74.0	-39.6	Low ch, EUT vertical
1210.242	42.7	-8.3	1.0	160.1	3.0	0.0	Horz	PK	0.0	34.4	74.0	-39.6	Mid ch, EUT vertical
1210.775	42.6	-8.3	1.0	235.9	3.0	0.0	Vert	PK	0.0	34.3	74.0	-39.7	Mid ch, EUT vertical

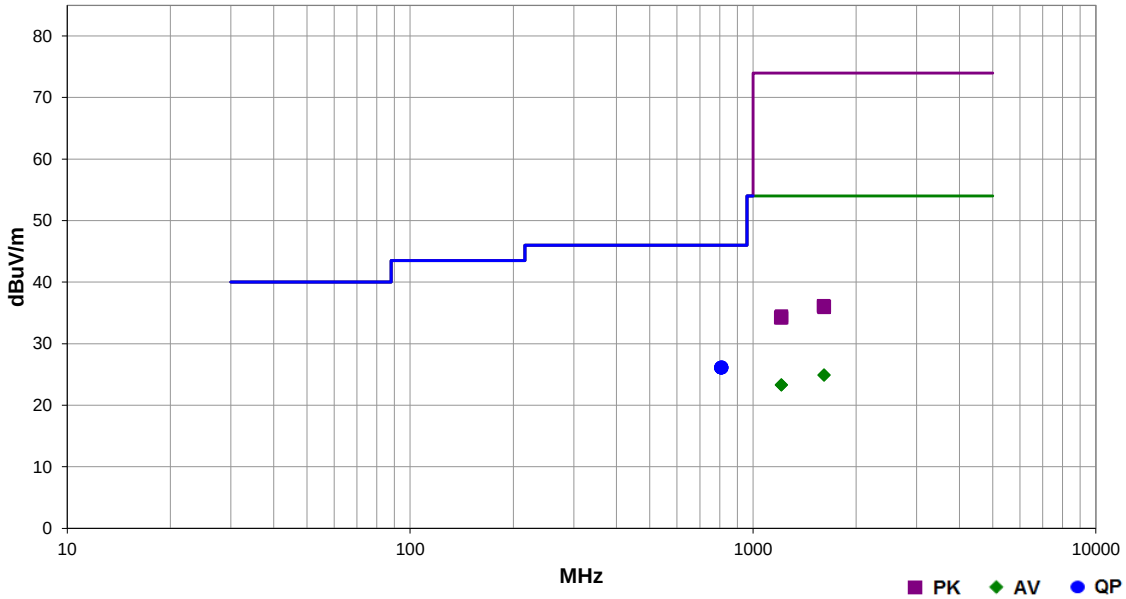
SPURIOUS RADIATED EMISSIONS

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	14-May-2018		
Project:	None	**Temperature:**	23 °C		
Job Site:	MN05	**Humidity:**	47.2% RH		
Serial Number:	720522	**Barometric Pres.:**	1016 mbar	**Tested by:**	Dustin Sparks
EUT:	Ingenio 2				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	Ching Wang				
EUT Power:	Battery				
Operating Mode:	Transmitting MICS - low channel (402.15 MHz), mid channel (403.35 MHz), and high channel (404.85 MHz) modulated				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

Run #	20	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
809.125	15.7	10.5	1.0	15.1	3.0	0.0	Horz	QP	0.0	26.2	46.0	-19.8	High ch, EUT on side
809.496	15.7	10.5	1.7	328.0	3.0	0.0	Vert	QP	0.0	26.2	46.0	-19.8	High ch, EUT on side
809.975	15.7	10.4	1.0	344.9	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	High ch, EUT vertical
810.405	15.7	10.4	1.0	264.9	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT vertical
810.728	15.7	10.4	1.0	290.9	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	High ch, EUT horizontal
809.926	15.7	10.4	1.0	40.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	High ch, EUT horizontal
805.302	15.7	10.4	1.0	56.0	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
805.150	15.7	10.4	1.0	34.1	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Mid ch, EUT vertical
805.360	15.7	10.4	1.0	108.0	3.0	0.0	Horz	QP	0.0	26.1	46.0	-19.9	Low ch, EUT vertical
805.188	15.7	10.4	1.0	243.9	3.0	0.0	Vert	QP	0.0	26.1	46.0	-19.9	Low ch, EUT vertical
1611.125	30.9	-6.0	3.0	49.0	3.0	0.0	Horz	AV	0.0	24.9	54.0	-29.1	Mid ch, EUT vertical
1612.425	30.9	-6.0	1.0	325.0	3.0	0.0	Vert	AV	0.0	24.9	54.0	-29.1	Mid ch, EUT vertical
1209.542	31.6	-8.3	3.5	119.1	3.0	0.0	Horz	AV	0.0	23.3	54.0	-30.7	Mid ch, EUT vertical
1211.650	31.6	-8.3	1.0	260.0	3.0	0.0	Vert	AV	0.0	23.3	54.0	-30.7	Mid ch, EUT vertical
1606.117	42.2	-6.0	1.0	346.0	3.0	0.0	Horz	PK	0.0	36.2	74.0	-37.8	Low ch, EUT vertical
1614.717	42.1	-6.0	3.0	49.0	3.0	0.0	Horz	PK	0.0	36.1	74.0	-37.9	Mid ch, EUT vertical
1606.233	42.0	-6.0	1.0	271.9	3.0	0.0	Vert	PK	0.0	36.0	74.0	-38.0	Low ch, EUT vertical
1611.967	41.9	-6.0	1.0	325.0	3.0	0.0	Vert	PK	0.0	35.9	74.0	-38.1	Mid ch, EUT vertical
1210.950	42.8	-8.3	3.5	119.1	3.0	0.0	Horz	PK	0.0	34.5	74.0	-39.5	Mid ch, EUT vertical
1207.233	42.7	-8.3	2.8	342.0	3.0	0.0	Horz	PK	0.0	34.4	74.0	-39.6	Low ch, EUT vertical
1212.217	42.4	-8.2	1.0	260.0	3.0	0.0	Vert	PK	0.0	34.2	74.0	-39.8	Mid ch, EUT vertical
1204.225	42.5	-8.3	3.9	105.1	3.0	0.0	Vert	PK	0.0	34.2	74.0	-39.8	Low ch, EUT vertical

SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

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.	Cal. Due
Power Supply - DC	EZ Digital Co., Ltd.	GP-4030D	TQK	NCR	NCR
Meter - Multimeter	Fluke	114	MMU	18-Jul-17	18-Jul-20
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	15-Mar-18	15-Mar-19
Attenuator	S.M. Electronics	SA26B-20	RFW	13-Feb-18	13-Feb-19
Block - DC	Fairview Microwave	SD3379	AMI	12-Sep-17	12-Sep-18
Generator - Signal	Agilent	E4422B	TGQ	15-Mar-18	15-Mar-21
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-17	2-Aug-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Per FCC Part 2.1051, RSS-GEN, the spurious emissions shall be measured at the RF terminal. The peak spurious emissions were measured with the EUT configured to the modes listed in the datasheet. The EUT was transmitting at its maximum data rate.

FCC Part 95 and RSS-243 have no conducted spurious emissions limit. It is a requirement to characterize this information and that data is contained within this datasheet.

SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

EUT:	Ingenio 2			**Work Order:**	BSTN0835
Serial Number:	See Comments			**Date:**	22-May-18
Customer:	Boston Scientific Corporation			**Temperature:**	23.6 °C
Attendees:	Ching Wang			**Humidity:**	46.5% RH
Project:	None			**Barometric Pres.:**	1021 mbar
Tested by:	Dustin Sparks	**Power:**	3.2VDC	**Job Site:**	MN08

TEST SPECIFICATIONS	Test Method
FCC 95I:2018	ANSI C63.26:2015

COMMENTS

Three samples tested simultaneously - sample 1 (SN 75602703), sample 2 (SN 75602706), and sample 3 (SN 75602701).

DEVIATIONS FROM TEST STANDARD

None

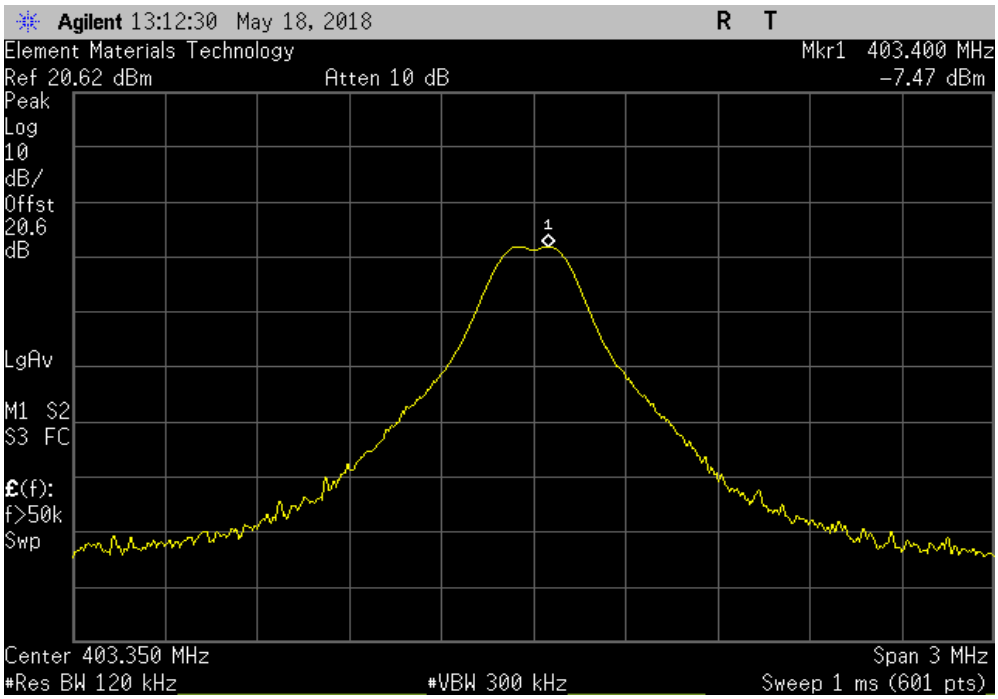
Configuration #	4, 5, 6	Signature

		Value	Limit	Result
Sample 1				
	Mid Channel, 403.35 MHz			
	Fundamental	-7.47 dBm	N/A	N/A
	9kHz-150kHz	-61.36 dBm	N/A	N/A
	150kHz-30MHz	-38.49 dBm	N/A	N/A
	30MHz-1GHz	-52.37 dBm	N/A	N/A
	1GHz-5GHz	-49.35 dBm	N/A	N/A
Sample 2				
	Mid Channel, 403.35 MHz			
	Fundamental	-7.86 dBm	N/A	N/A
	9kHz-150kHz	-60.69 dBm	N/A	N/A
	150kHz-30MHz	-39.95 dBm	N/A	N/A
	30MHz-1GHz	-54.90 dBm	N/A	N/A
	1GHz-5GHz	-49.74 dBm	N/A	N/A
Sample 3				
	Mid Channel, 403.35 MHz			
	Fundamental	-7.30 dBm	N/A	N/A
	9kHz-150kHz	-63.05 dBm	N/A	N/A
	150kHz-30MHz	-40.41 dBm	N/A	N/A
	30MHz-1GHz	-54.03 dBm	N/A	N/A
	1GHz-5GHz	-48.83 dBm	N/A	N/A

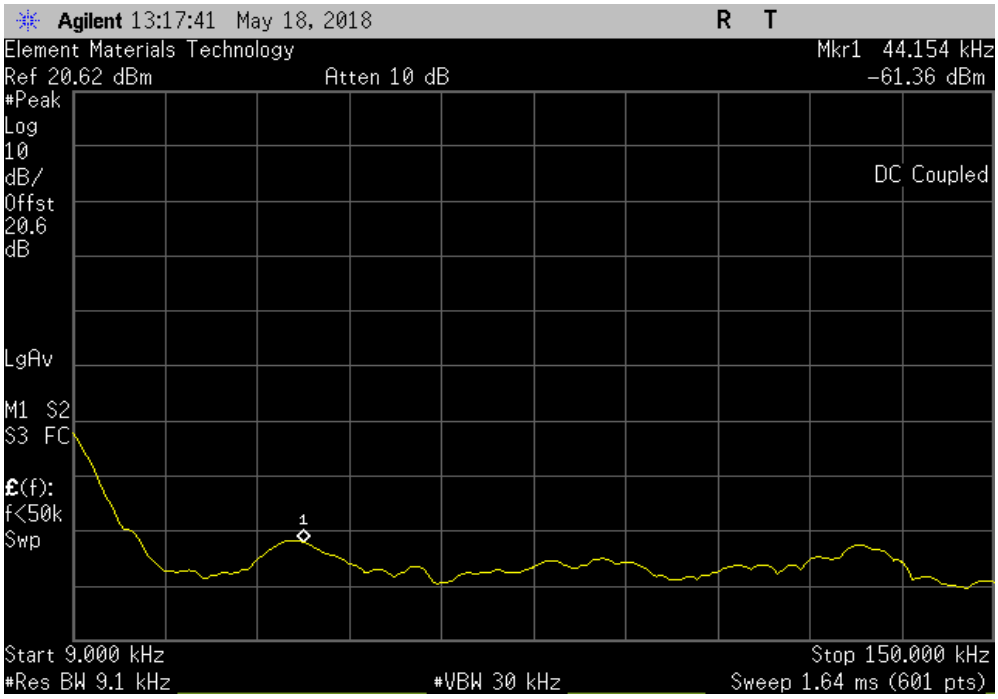
SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

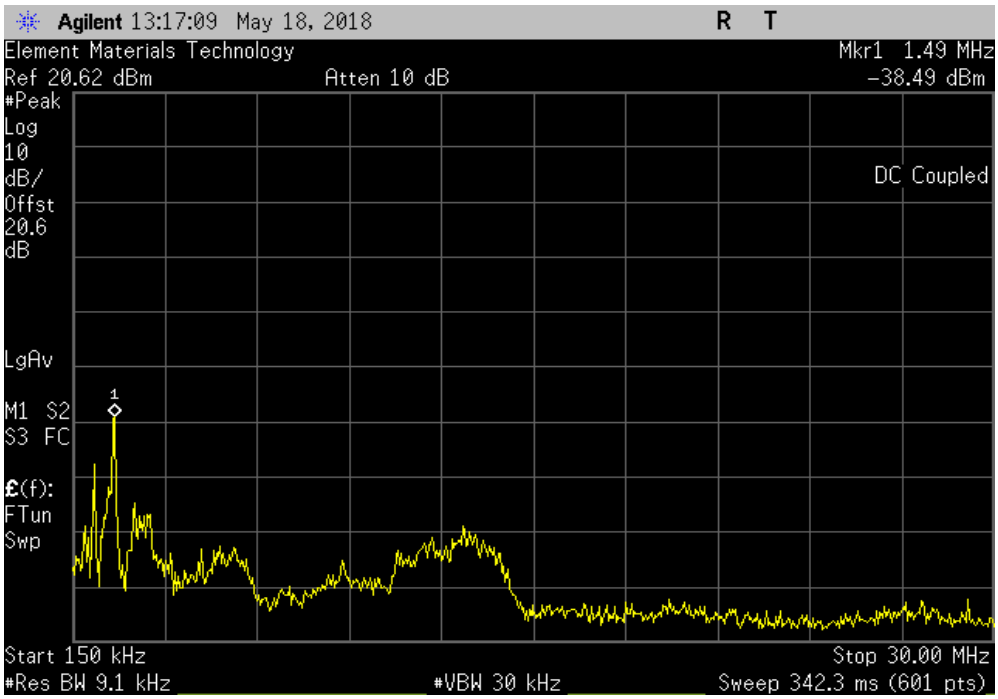
Sample 1, Mid Channel, 403.35 MHz, Fundamental							
					Value	Limit	Result
					-7.47 dBm	N/A	N/A



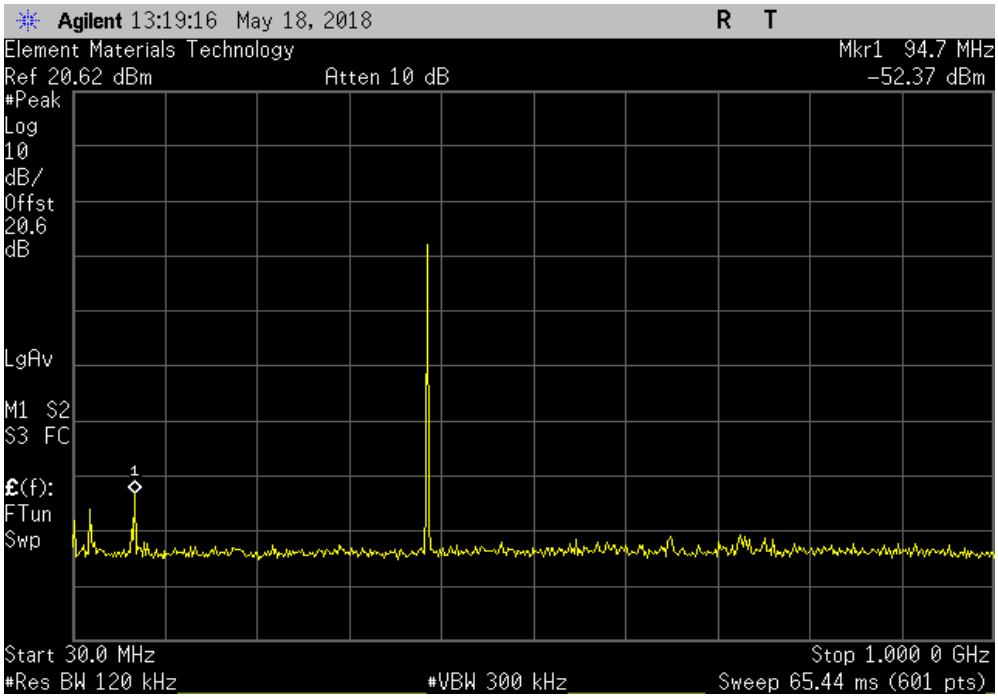
Sample 1, Mid Channel, 403.35 MHz, 9kHz-150kHz							
					Value	Limit	Result
					-61.36 dBm	N/A	N/A



Sample 1, Mid Channel, 403.35 MHz, 150kHz-30MHz							
					Value	Limit	Result
					-38.49 dBm	N/A	N/A



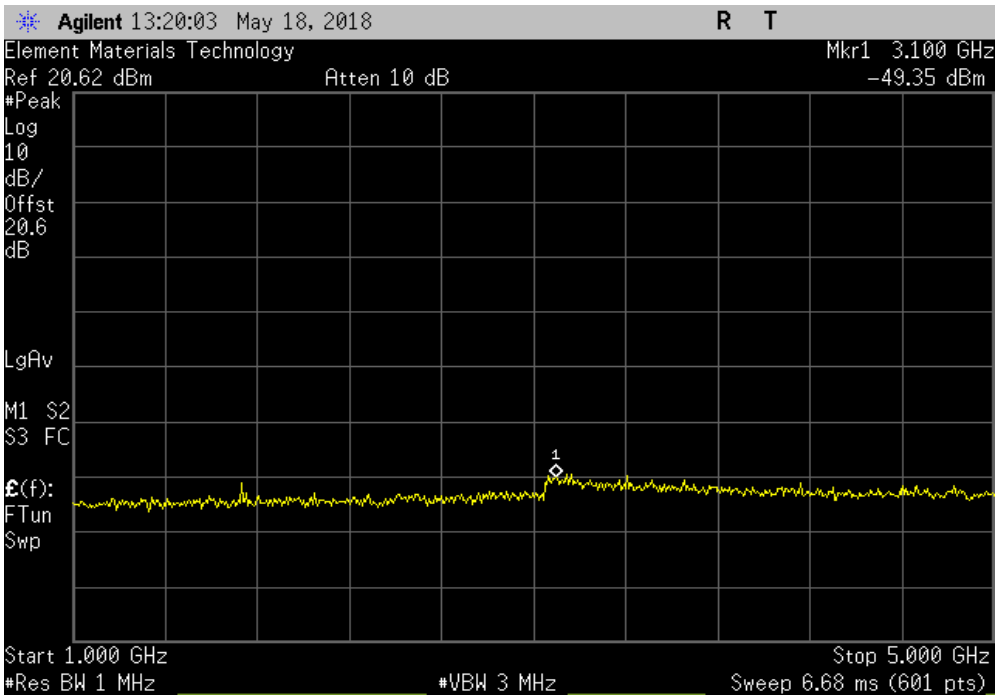
Sample 1, Mid Channel, 403.35 MHz, 30MHz-1GHz							
					Value	Limit	Result
					-52.37 dBm	N/A	N/A



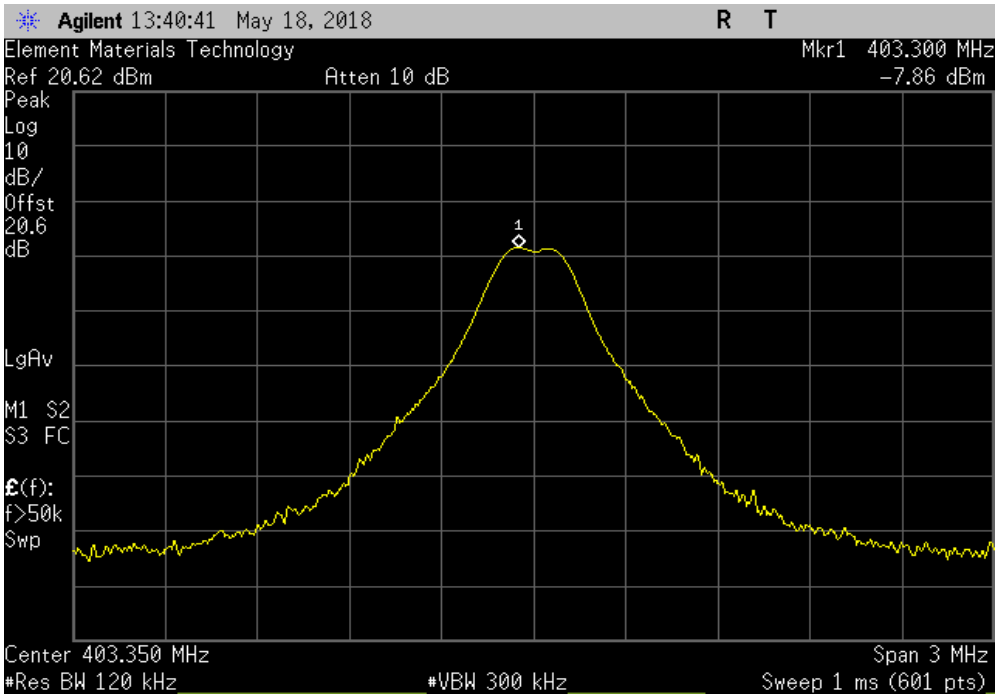
SPURIOUS CONDUCTED EMISSIONS

XMit 2017.12.13

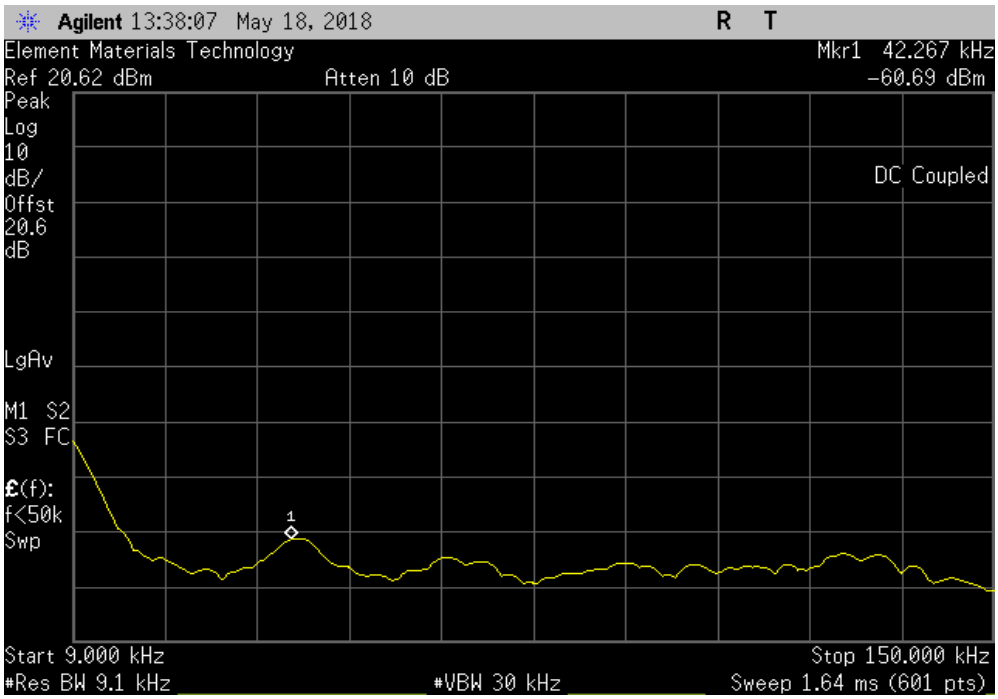
Sample 1, Mid Channel, 403.35 MHz, 1GHz-5GHz							
					Value	Limit	Result
					-49.35 dBm	N/A	N/A



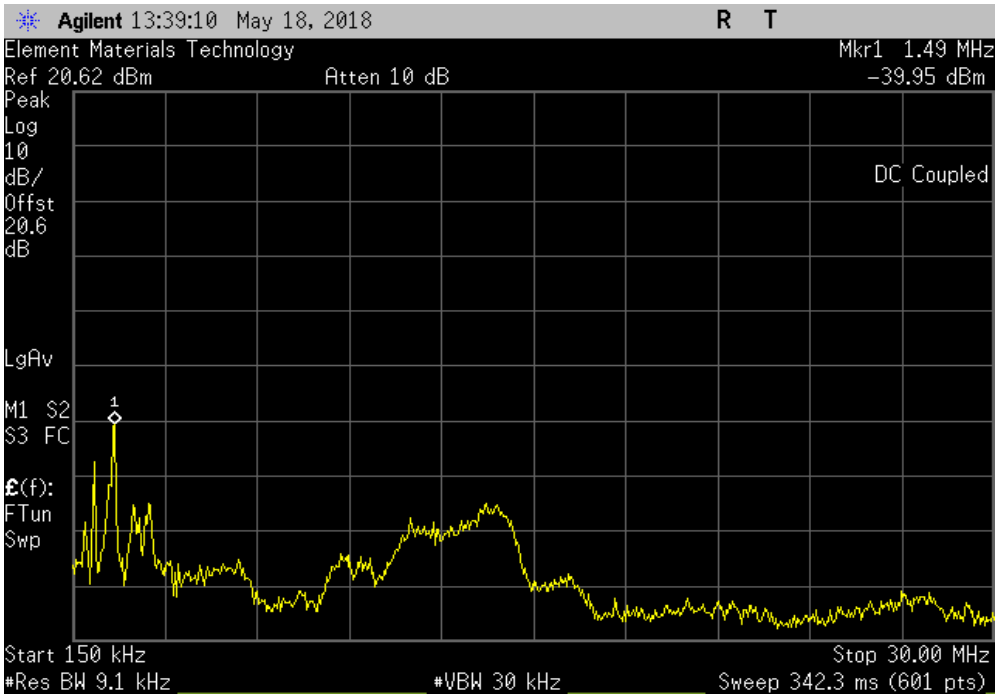
Sample 2, Mid Channel, 403.35 MHz, Fundamental							
					Value	Limit	Result
					-7.86 dBm	N/A	N/A



Sample 2, Mid Channel, 403.35 MHz, 9kHz-150kHz							
					Value	Limit	Result
					-60.69 dBm	N/A	N/A

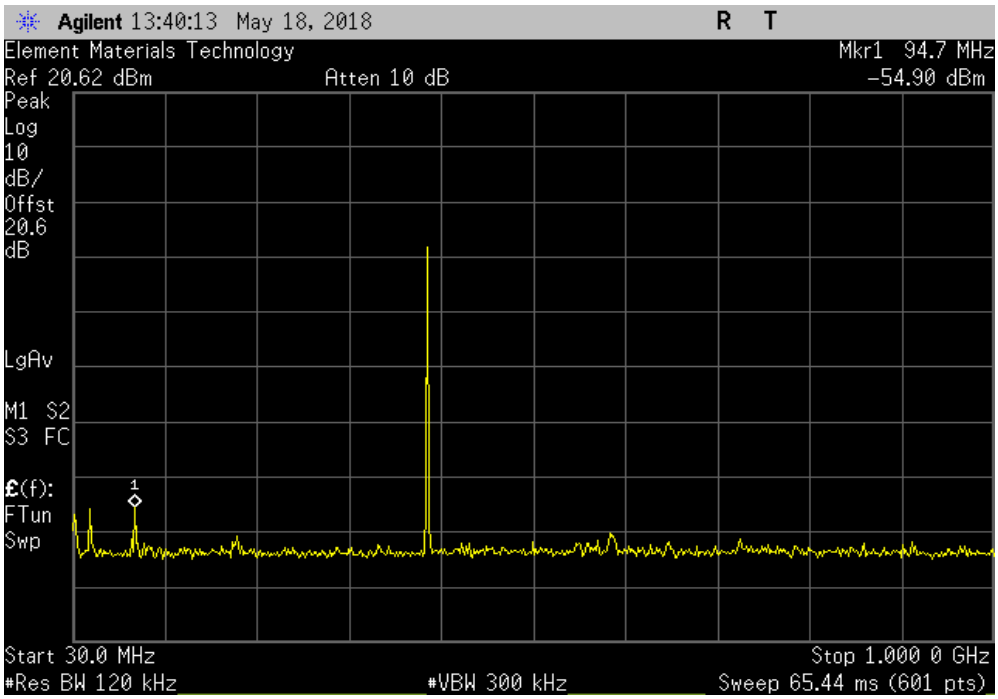


Sample 2, Mid Channel, 403.35 MHz, 150kHz-30MHz							
					Value	Limit	Result
					-39.95 dBm	N/A	N/A

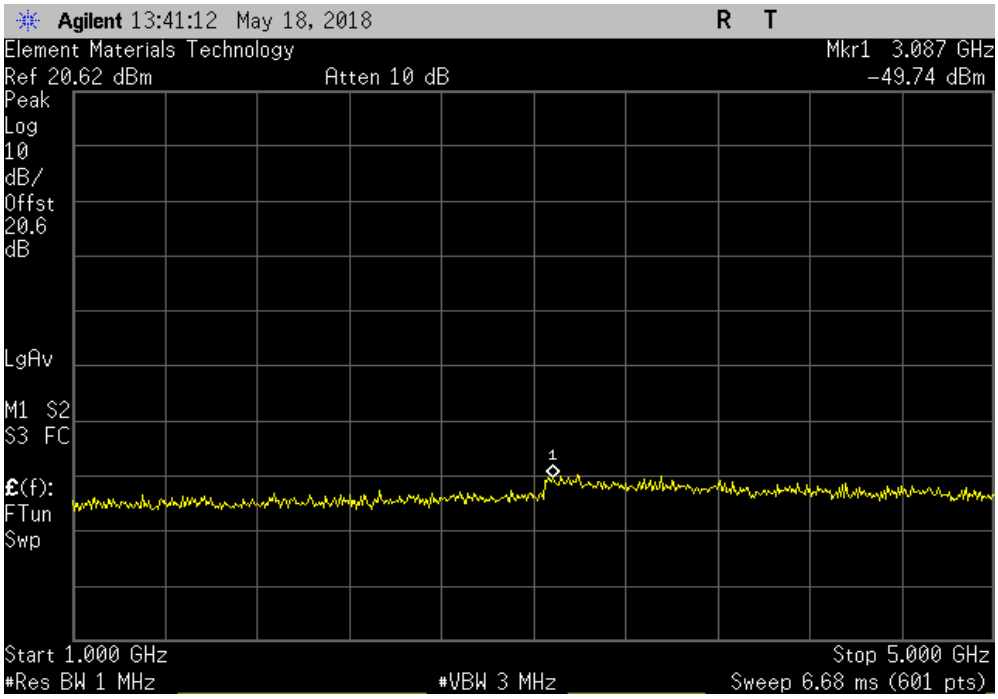


XMit 2017.12.13

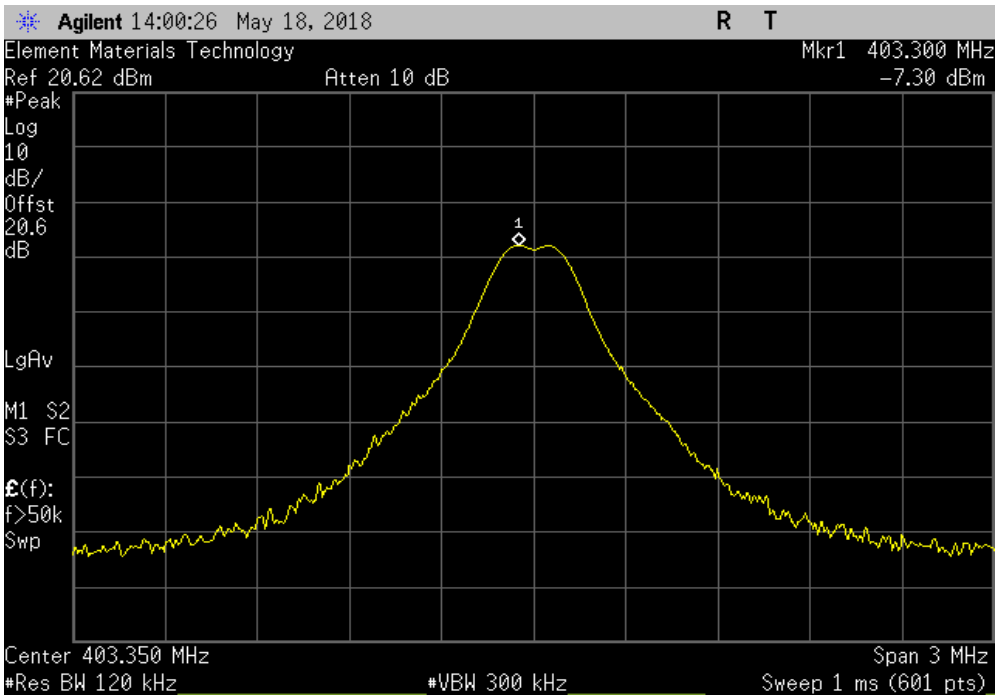
Sample 2, Mid Channel, 403.35 MHz, 30MHz-1GHz						
				Value	Limit	Result
				-54.90 dBm	N/A	N/A



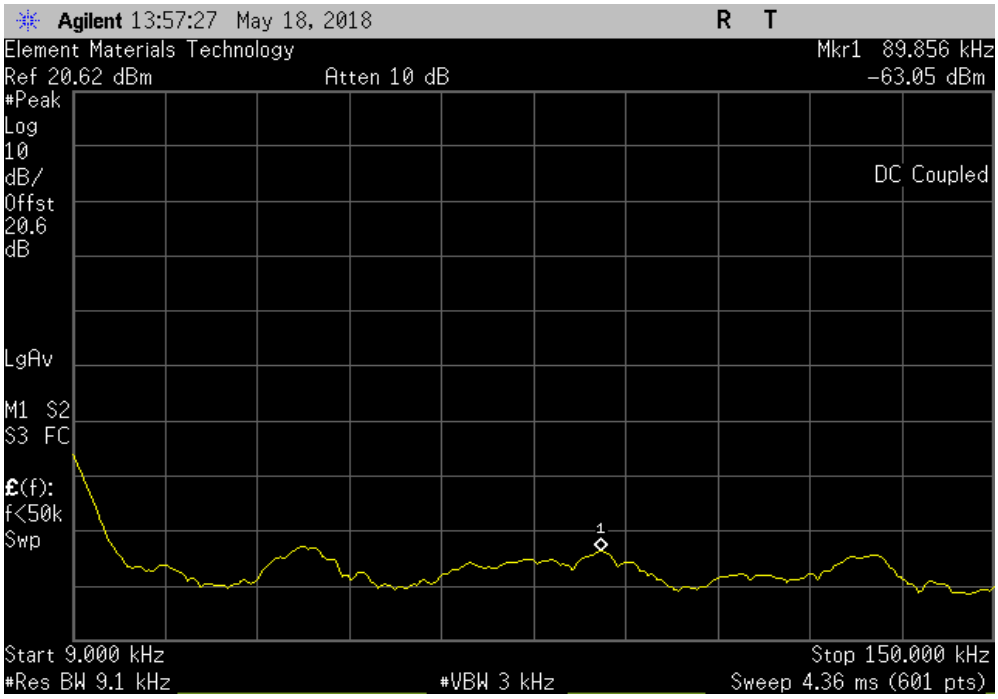
Sample 2, Mid Channel, 403.35 MHz, 1GHz-5GHz						
				Value	Limit	Result
				-49.74 dBm	N/A	N/A



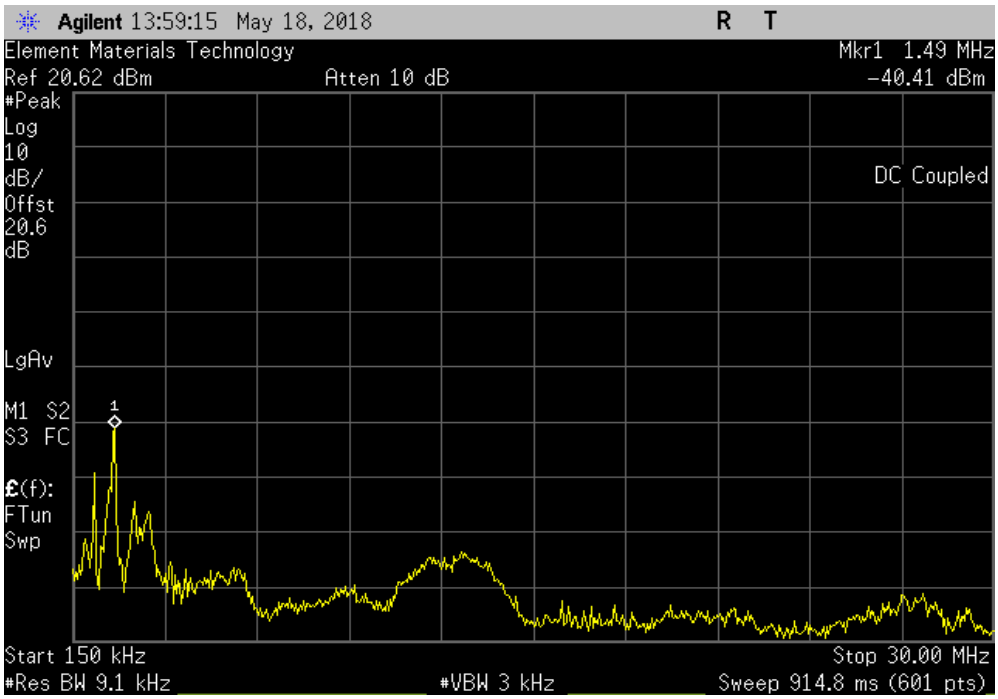
Sample 3, Mid Channel, 403.35 MHz, Fundamental						
				Value	Limit	Result
				-7.30 dBm	N/A	N/A



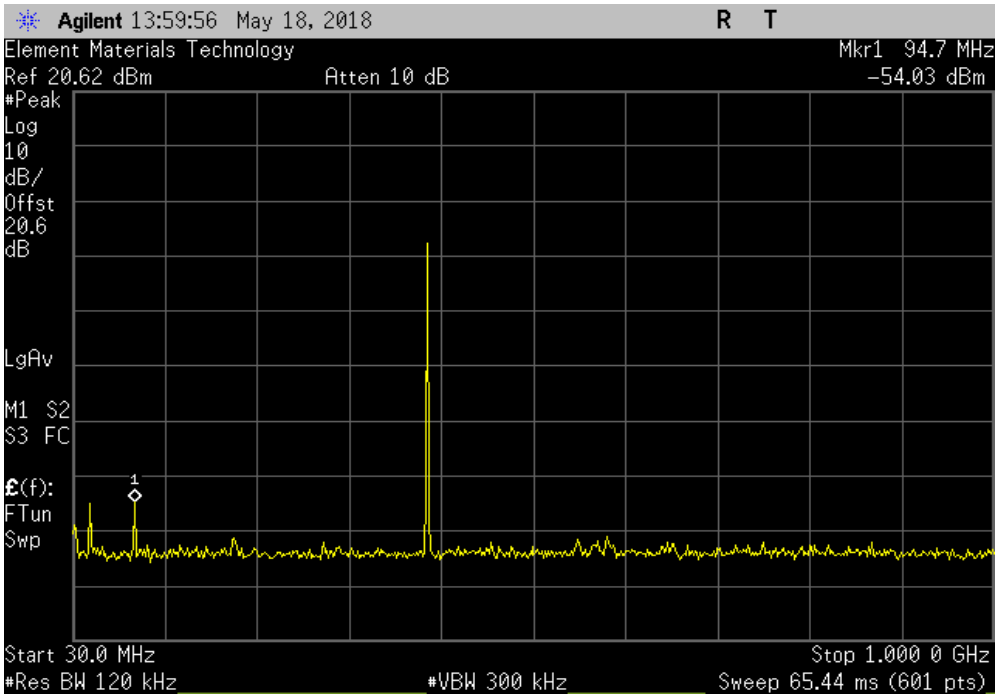
Sample 3, Mid Channel, 403.35 MHz, 9kHz-150kHz						
				Value	Limit	Result
				-63.05 dBm	N/A	N/A



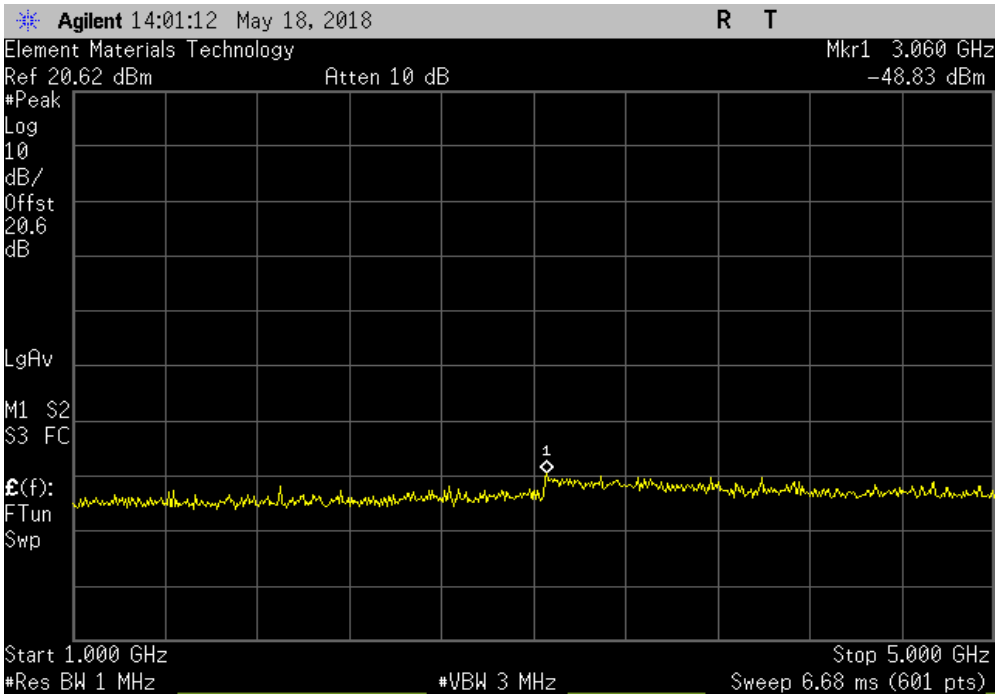
Sample 3, Mid Channel, 403.35 MHz, 150kHz-30MHz							
				Value	Limit	Result	
				-40.41 dBm	N/A	N/A	



Sample 3, Mid Channel, 403.35 MHz, 30MHz-1GHz							
				Value	Limit	Result	
				-54.03 dBm	N/A	N/A	



Sample 3, Mid Channel, 403.35 MHz, 1GHz-5GHz						
				Value	Limit	Result
				-48.83 dBm	N/A	N/A



RADIATED POWER (EIRP)

PSA-ESCI 2018.03.06

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

Tx CW on Low, Mid, or High Ch at 402.15, 403.35, or 404.85 MHz.

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0835 - 1
BSTN0835 - 2
BSTN0835 - 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
Tank, Torso Simulator	None	None	PCN	NCR	0 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AVO	9-Nov-2017	12 mo
Cable	ESM Cable Corp.	Bilog Cables	MNH	9-Nov-2017	12 mo
Antenna - Biconilog	Teseq	CBL 6141B	AYD	25-Jan-2018	24 mo
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-2017	12 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 95.2567(a)(2), 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 (Reference 95.2569(a)).

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 95.2569(c) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

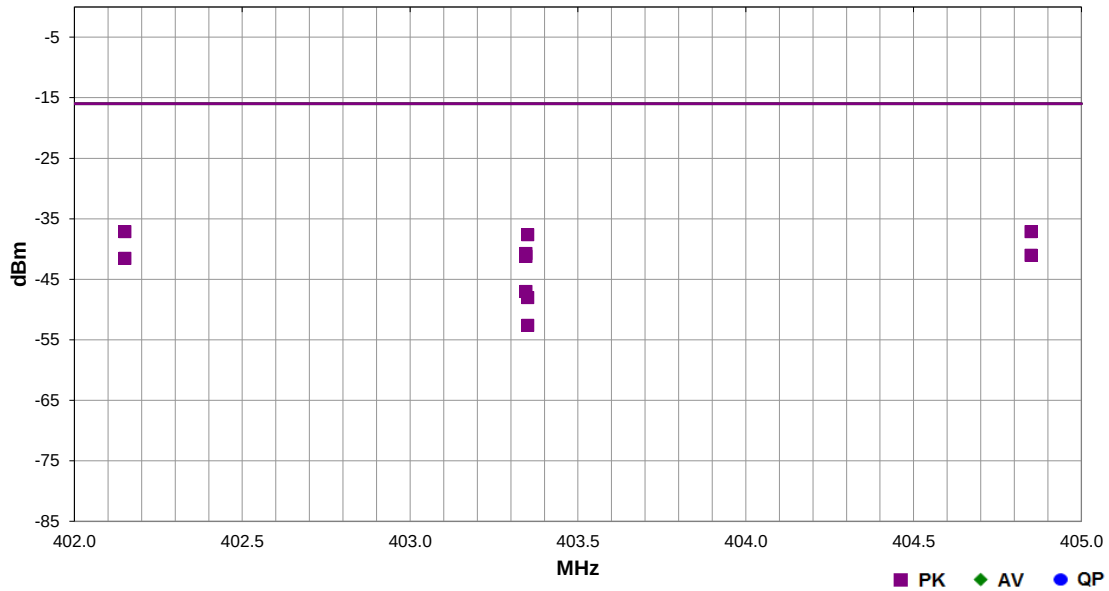
RADIATED POWER (EIRP)

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	16-May-2018		
Project:	None	**Temperature:**	22.9 °C		
Job Site:	MN05	**Humidity:**	37.5% RH		
Serial Number:	728066	**Barometric Pres.:**	1018 mbar	**Tested by:**	Kyle McMullan
EUT:	Ingenio 2				
Configuration:	1				
Customer:	Boston Scientific Corporation				
Attendees:	Tracy Seppelt				
EUT Power:	Battery				
Operating Mode:	Tx CW on Low, Mid, or High Ch at 402.15, 403.35, or 404.85 MHz.				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

Run #	31	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	402.150	1.6	308.9	Vert	PK	1.94E-07	-37.1	-16.0	-21.1	Low Ch, EUT Vert
	404.850	1.6	315.0	Vert	PK	1.94E-07	-37.1	-16.0	-21.1	High Ch, EUT Vert
	403.350	1.6	336.9	Vert	PK	1.73E-07	-37.6	-16.0	-21.6	Mid Ch, EUT Vert
	403.345	1.1	265.9	Horz	PK	8.46E-08	-40.7	-16.0	-24.7	Mid Ch, EUT Vert
	404.850	1.1	235.9	Horz	PK	7.89E-08	-41.0	-16.0	-25.0	High Ch, EUT Vert
	403.345	1.2	50.0	Horz	PK	7.54E-08	-41.2	-16.0	-25.2	Mid Ch, EUT On Side
	402.150	1.1	235.9	Horz	PK	7.03E-08	-41.5	-16.0	-25.5	Low Ch, EUT Vert
	403.345	1.2	351.0	Horz	PK	1.98E-08	-47.0	-16.0	-31.0	Mid Ch, EUT Horz
	403.350	1.5	315.0	Vert	PK	1.57E-08	-48.0	-16.0	-32.0	Mid Ch, EUT On Side
	403.350	1.6	307.9	Vert	PK	5.46E-09	-52.6	-16.0	-36.6	Mid Ch, EUT Horz

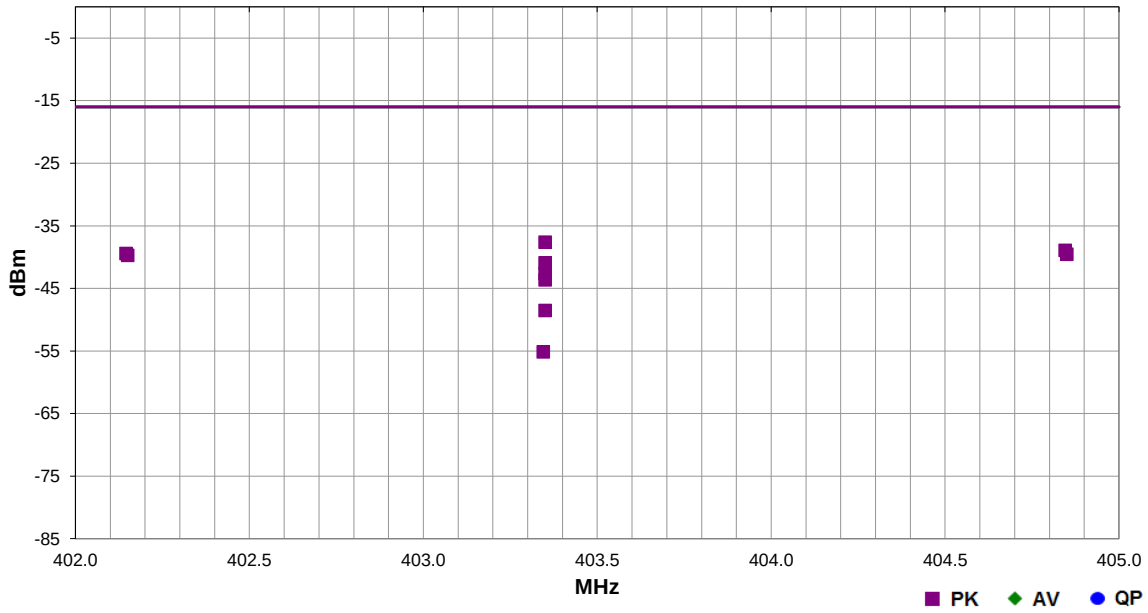
RADIATED POWER (EIRP)

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	16-May-2018		
Project:	None	**Temperature:**	22.9 °C		
Job Site:	MN05	**Humidity:**	37.5% RH		
Serial Number:	776657	**Barometric Pres.:**	1018 mbar	**Tested by:**	Kyle McMullan
EUT:	Ingenio 2				
Configuration:	2				
Customer:	Boston Scientific Corporation				
Attendees:	Tracy Seppelt				
EUT Power:	Battery				
Operating Mode:	Tx CW on Low, Mid, or High Ch at 402.15, 403.35, or 404.85 MHz.				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

Run #	32	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments	
	403.350	1.6	329.9	Vert	PK	1.73E-07	-37.6	-16.0	-21.6	Mid Ch, EUT Vert	
	404.845	1.6	328.0	Vert	PK	1.28E-07	-38.9	-16.0	-22.9	High Ch, EUT Vert	
	402.145	1.6	311.0	Vert	PK	1.14E-07	-39.4	-16.0	-23.4	Low Ch, EUT Vert	
	404.850	1.1	253.9	Horz	PK	1.11E-07	-39.5	-16.0	-23.5	High Ch, EUT Vert	
	402.150	1.1	243.0	Horz	PK	1.06E-07	-39.7	-16.0	-23.7	Low Ch, EUT Vert	
	403.350	1.1	247.9	Horz	PK	8.07E-08	-40.9	-16.0	-24.9	Mid Ch, EUT Vert	
	403.350	1.2	37.1	Horz	PK	5.46E-08	-42.6	-16.0	-26.6	Mid Ch, EUT On Side	
	403.350	1.2	311.9	Horz	PK	4.34E-08	-43.6	-16.0	-27.6	Mid Ch, EUT Horz	
	403.350	1.6	303.0	Vert	PK	1.40E-08	-48.5	-16.0	-32.5	Mid Ch, EUT On Side	
	403.345	1.7	324.0	Vert	PK	3.07E-09	-55.1	-16.0	-39.1	Mid Ch, EUT Horz	

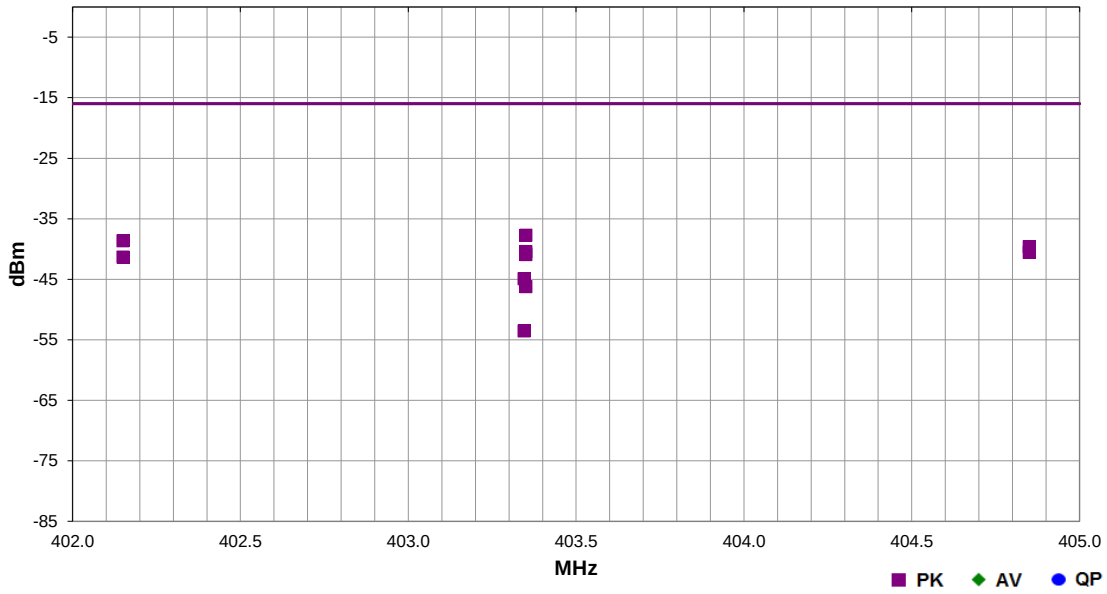
RADIATED POWER (EIRP)

EmiR5 2018.03.06.1 PSA-ESCI 2018.03.06

Work Order:	BSTN0835	**Date:**	16-May-2018		
Project:	None	**Temperature:**	22.9 °C		
Job Site:	MN05	**Humidity:**	37.5% RH		
Serial Number:	750522	**Barometric Pres.:**	1018 mbar	**Tested by:**	Kyle McMullan
EUT:	Ingenio 2				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	Tracy Seppelt				
EUT Power:	Battery				
Operating Mode:	Tx CW on Low, Mid, or High Ch at 402.15, 403.35, or 404.85 MHz.				
Deviations:	None				
Comments:	None				

Test Specifications	**Test Method**
FCC 95I:2018	ANSI C63.26:2015

Run #	33	**Test Distance (m)**	3	**Antenna Height(s)**	1 to 4(m)	**Results**	Pass



	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments	
	403.350	1.6	326.9	Vert	PK	1.69E-07	-37.7	-16.0	-21.7	Mid Ch, EUT Vert	
	402.150	1.6	308.9	Vert	PK	1.37E-07	-38.6	-16.0	-22.6	Low Ch, EUT Vert	
	404.850	1.6	310.0	Vert	PK	1.09E-07	-39.6	-16.0	-23.6	High Ch, EUT Vert	
	403.350	1.1	250.9	Horz	PK	9.06E-08	-40.4	-16.0	-24.4	Mid Ch, EUT Vert	
	404.850	1.1	245.0	Horz	PK	8.85E-08	-40.5	-16.0	-24.5	High Ch, EUT Vert	
	403.350	1.2	20.0	Horz	PK	8.07E-08	-40.9	-16.0	-24.9	Mid Ch, EUT On Side	
	402.150	1.1	250.9	Horz	PK	7.36E-08	-41.3	-16.0	-25.3	Low Ch, EUT Vert	
	403.345	1.6	301.9	Vert	PK	3.21E-08	-44.9	-16.0	-28.9	Mid Ch, EUT On Side	
	403.350	1.2	311.0	Horz	PK	2.38E-08	-46.2	-16.0	-30.2	Mid Ch, EUT Horz	
	403.345	1.6	71.0	Vert	PK	4.44E-09	-53.5	-16.0	-37.5	Mid Ch, EUT Horz	