



Axonics Modulation Technologies, Inc.

Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)

EN 301 839 V2.1.1:2016

EN 302 537 V2.1.1:2016

FCC Part 95I:2017

RSS-243:2010

MedRadio

Report # AXON0097.12



NVLAP Lab Code: 200676-0



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CERTIFICATE OF TEST



2017-1-25

Last Date of Test: November 20, 2017

Axonics Modulation Technologies, Inc.

Model: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)

Radio Equipment Testing

Standards - MICS

Specification	Method
EN 301 839 V2.1.1:2016	
FCC Part 95i:2017	
RSS-243:2010	EN 301 839 V2.1.1:2016

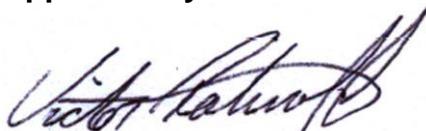
Results - MICS

Method Clause	Test Description	Applied	Results	Comments
5.3.7.1.3	LBT Threshold Power Level	Yes	Pass	
5.3.7.1.4	Monitoring System Bandwidth	Yes	Pass	
5.3.7.1.5.1.1	Monitoring System Scan Cycle Time	Yes	Pass	
5.3.7.1.5.1.2	Minimum Channel Monitoring Period	Yes	Pass	
5.3.7.1.6	Channel Access Based On Ambient Levels	Yes	Pass	
5.3.7.1.7	Discontinuation Of A MICS Session	Yes	Pass	
5.3.7.1.8	Use Of Pre-Scanned Alternative Channels	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Victor Ratinoff, 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.



CERTIFICATE OF TEST

Last Date of Test: November 20, 2017
Axonics Modulation Technologies, Inc.

Model: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)

Radio Equipment Testing

Standards - MEDS

Specification	Method
EN 302 537 V2.1.1:2016	
FCC Part 95I:2017	
RSS-243:2010	EN 302 537 V2.1.1:2016

Results - MEDS

Method Clause	Test Description	Applied	Results	Comments
5.3.8.1.1	LBT Threshold Power Level	Yes	Pass	
5.3.8.1.2	Monitoring System Bandwidth	Yes	Pass	
5.3.8.1.3.1.1	Monitoring System Scan Cycle Time	Yes	Pass	
5.3.8.1.3.1.2	Minimum Channel Monitoring Period	Yes	Pass	
5.3.8.1.4	Channel Access Based On Ambient Levels	Yes	Pass	
5.3.8.1.5	Discontinuation Of A MICS Session	Yes	Pass	
5.3.8.1.6	Use Of Pre-Scanned Alternative Channels	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Victor Ratinoff, 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

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

Japan

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

Taiwan

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

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

Singapore

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

Israel

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

Hong Kong

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:

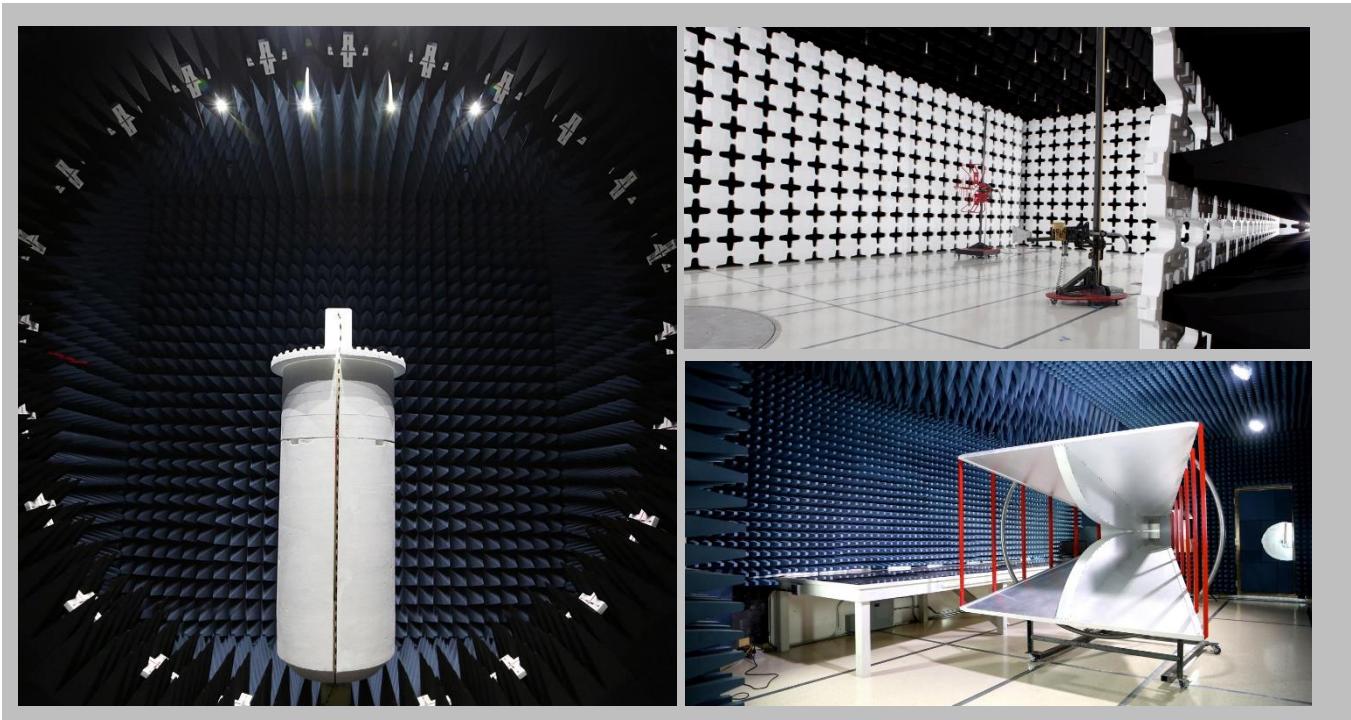
<http://portlandcustomer.element.com/ts/scope/scope.htm>

<http://gsi.nist.gov/global/docs/cabs/designations.html>

FACILITIES



California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th 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



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

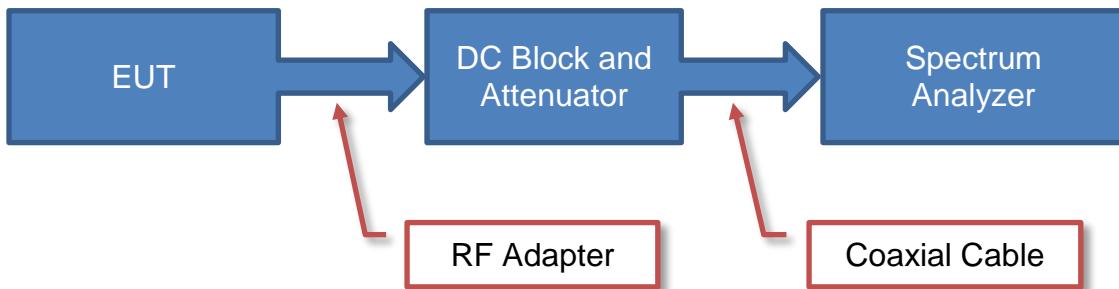
A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable 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.

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

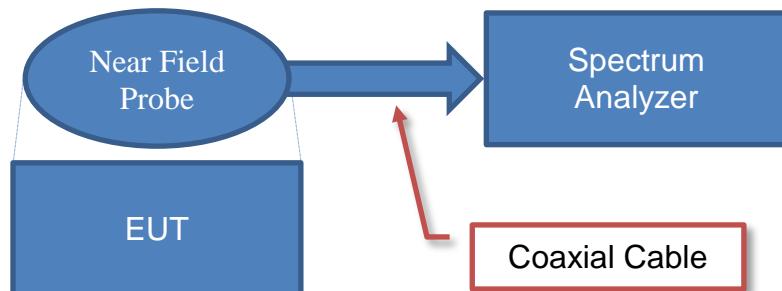
Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

Test Setup Block Diagrams

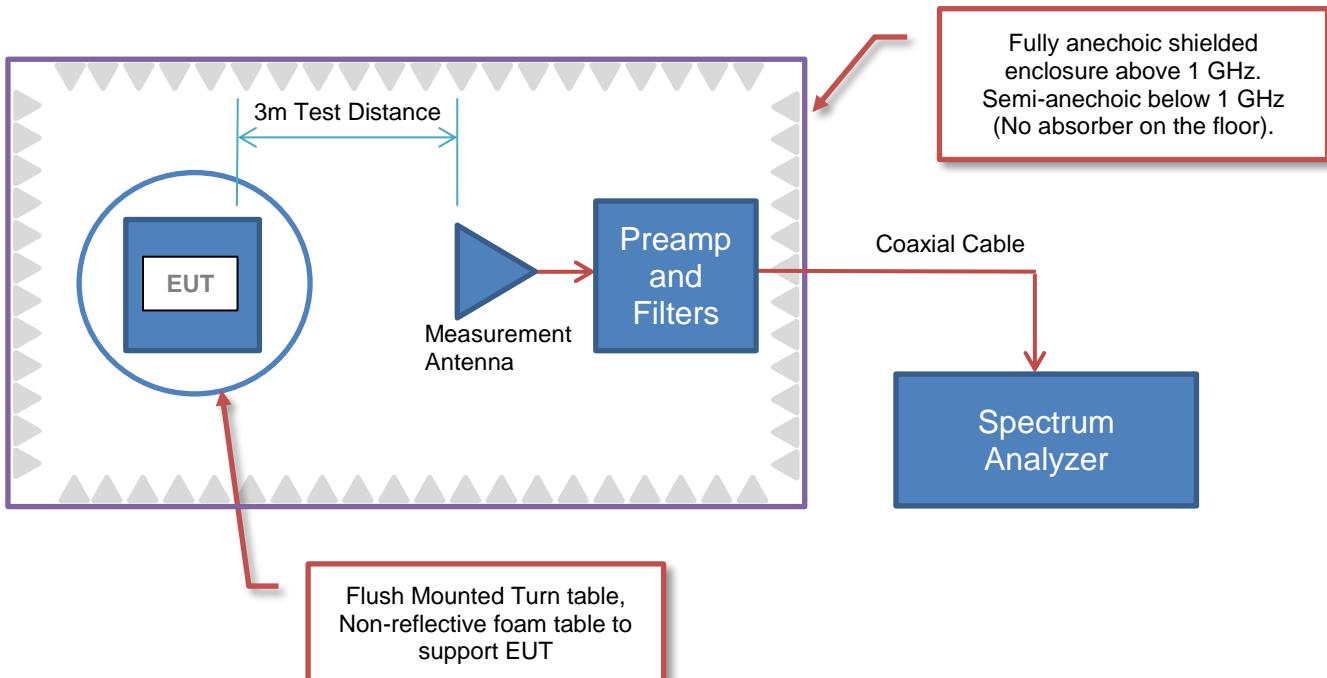
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Axonics Modulation Technologies, Inc.
Address:	7575 Irvine Center Drive Suite 200
City, State, Zip:	Irvine, CA 92618
Test Requested By:	Franklin Portillo
Model:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)
First Date of Test:	November 20, 2017
Last Date of Test:	November 20, 2017
Receipt Date of Samples:	October 19, 2017
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Clinician Programmer (CP): a tablet computer (battery operated and wall outlet) used by a clinician to program the EPG/IPG. The CP generates stimulation pulses which are transferred to the region of therapy by foramen needle via a J-clip or by a Quadripolar tined lead via a Stimulation Test cable.

Testing Objective:

Seeking authorization for the spectrum access (LBT) function of the MedRadio transmitter to FCC Part 95I, RSS-243, EN 301 839 and EN 302 537.

CONFIGURATIONS



Configuration AXON0097- 30

Software/Firmware Running during test	
Description	Version
Firmware	CP-282-ST-48-RF-42

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Clinician Programmer (SMA)	Axonics Modulation Technologies, Inc.	2501	AC1C870003

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
DC Power Source	HQ Power	PS3003U	DK10103872
IPG (SMA)	Axonics Modulation Technologies, Inc.	1101	AT1B000004

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	3.0m	No	Clinician Programmer (SMA)	DC Power Source
DC Cable	No	2.0m	No	IPG (SMA)	DC Power Source
AC Cable	No	1.8m	No	AC Mains	DC Power Source

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	11/20/2017	Monitoring System 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.
2	11/20/2017	Monitoring System Scan Cycle Time	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	11/20/2017	Minimum Channel Monitoring Period	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	11/20/2017	LBT Threshold Power Level	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	11/20/2017	Channel Access Based On Ambient Levels	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	11/20/2017	Discontinuation Of A MICS Session	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	11/20/2017	Use Of Pre-Scanned Alternative Channels	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

LBT THRESHOLD POWER LEVEL



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

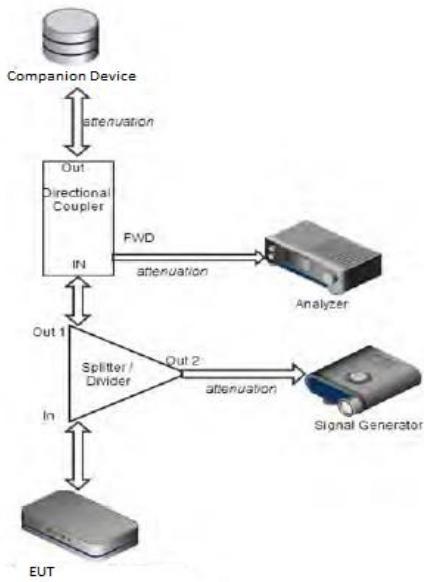
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 3 \text{ dB}$.

The spectrum analyzer was set to measure the transmit bands of 401-402 and 405-406 MHz. The multitone signal of the intended frequency (F_c) was set to the LBT threshold - 6 dB, and raised by 1 dB increments until the EUT choose a different channel to start a session. Screen captures were provided to show the EUT behavior at the different LBT threshold levels.

The signal generator amplitude at F_c was then measured and recorded with the spectrum analyzer.



LBT THRESHOLD POWER LEVEL



XMI 2017.08.21

EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097			
Serial Number:	AC1C870003		Date:	20-Nov-17			
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C			
Attendees:	Franklin Portillo		Humidity:	45.7% RH			
Project:	None		Barometric Pres.:	1018 mbar			
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13		
TEST SPECIFICATIONS		Test Method					
EN 302 537 V2.1.1:2016		EN 302 537 V2.1.1:2016					
COMMENTS							
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	30	Signature					
			CW -4dB Power Level	Limit (s)	Result		
401 - 402 MHz Band							
Mid Channel, 401.55 MHz							
LBT Threshold -6dB			N/A	N/A	N/A		
LBT Threshold -5dB			N/A	N/A	N/A		
LBT Threshold -4dB			N/A	N/A	N/A		
LBT Threshold -3dB			N/A	N/A	N/A		
LBT Threshold -2dB			N/A	N/A	N/A		
LBT Threshold -1dB			N/A	N/A	N/A		
LBT Threshold 0dB			N/A	N/A	N/A		
LBT Threshold +1dB			N/A	N/A	N/A		
LBT Threshold +2dB			N/A	N/A	N/A		
LBT Threshold +3dB			-99.68 dBm	-98.75 dBm	Pass		
405 - 406 MHz Band							
Mid Channel, 405.55 MHz							
LBT Threshold -6dB			N/A	N/A	N/A		
LBT Threshold -5dB			N/A	N/A	N/A		
LBT Threshold -4dB			N/A	N/A	N/A		
LBT Threshold -3dB			N/A	N/A	N/A		
LBT Threshold -2dB			N/A	N/A	N/A		
LBT Threshold -1dB			N/A	N/A	N/A		
LBT Threshold 0dB			N/A	N/A	N/A		
LBT Threshold +1dB			N/A	N/A	N/A		
LBT Threshold +2dB			N/A	N/A	N/A		
LBT Threshold +3dB			-99.63 dBm	-98.75 dBm	Pass		

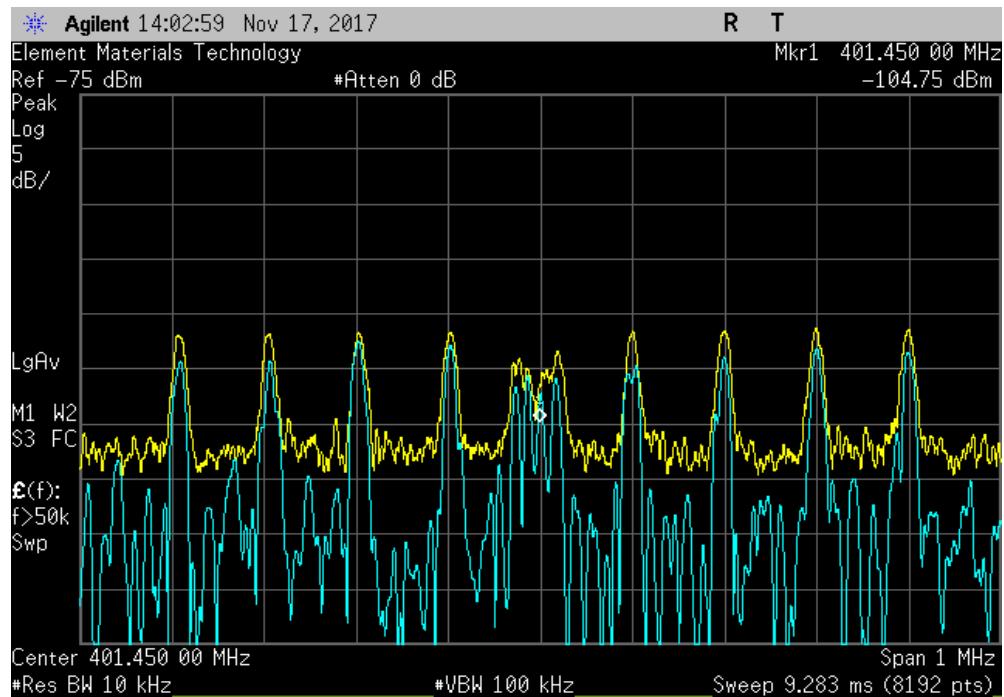
LBT THRESHOLD POWER LEVEL



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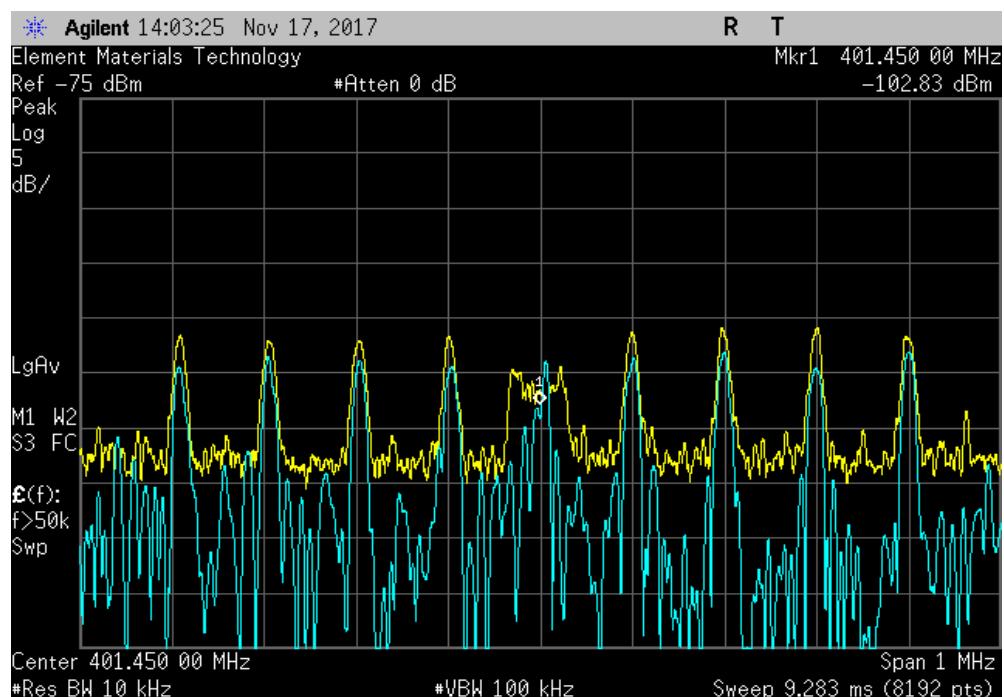
401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -6dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -5dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A

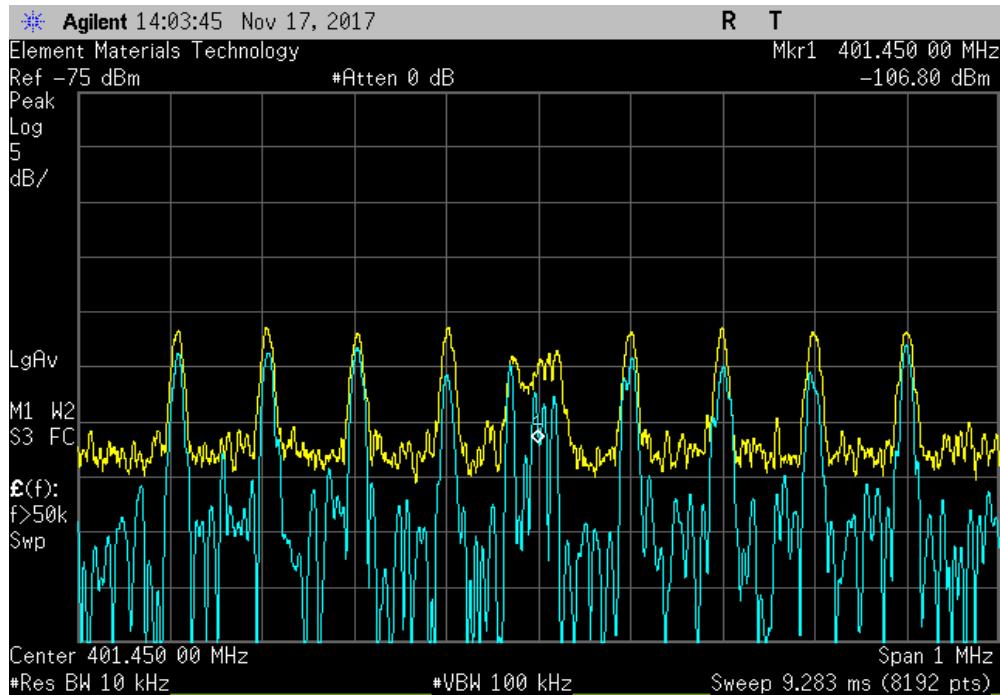


LBT THRESHOLD POWER LEVEL



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401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -4dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -3dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



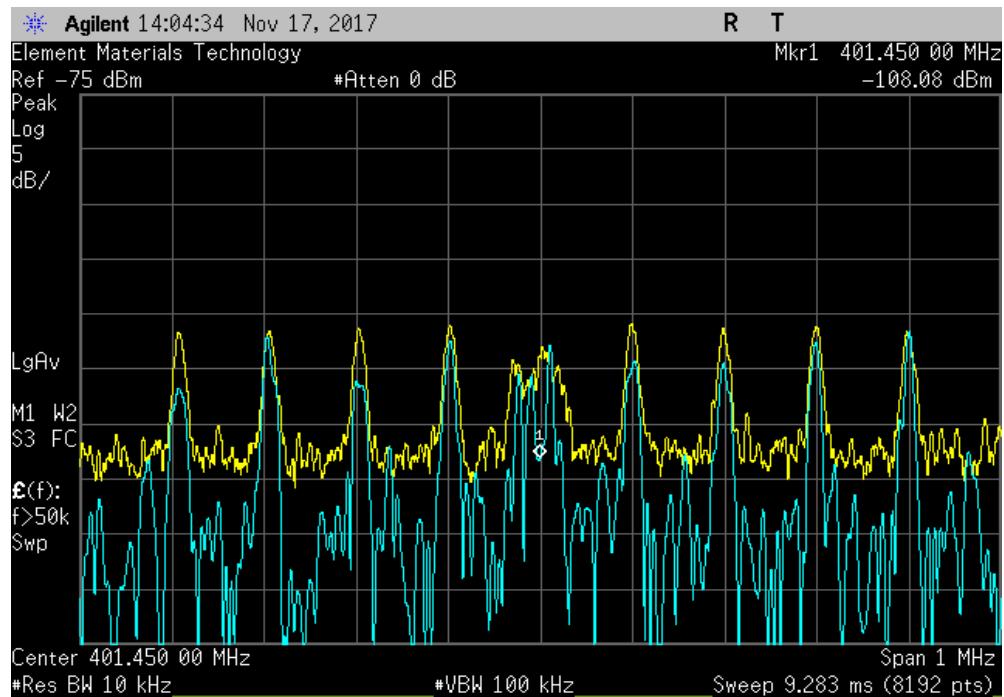
LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

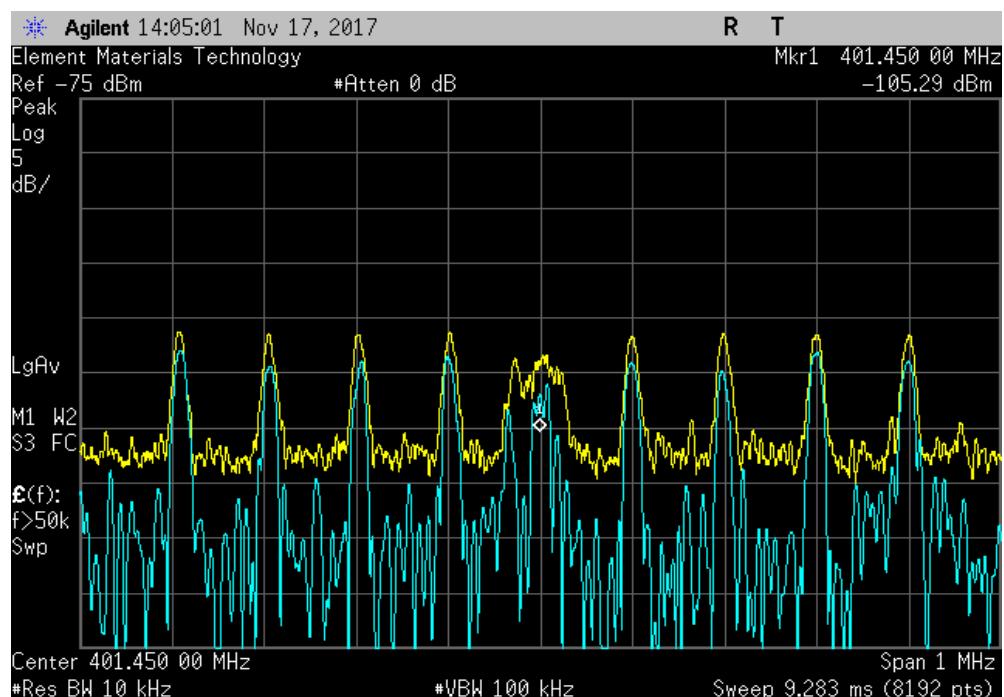
401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -2dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold -1dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A

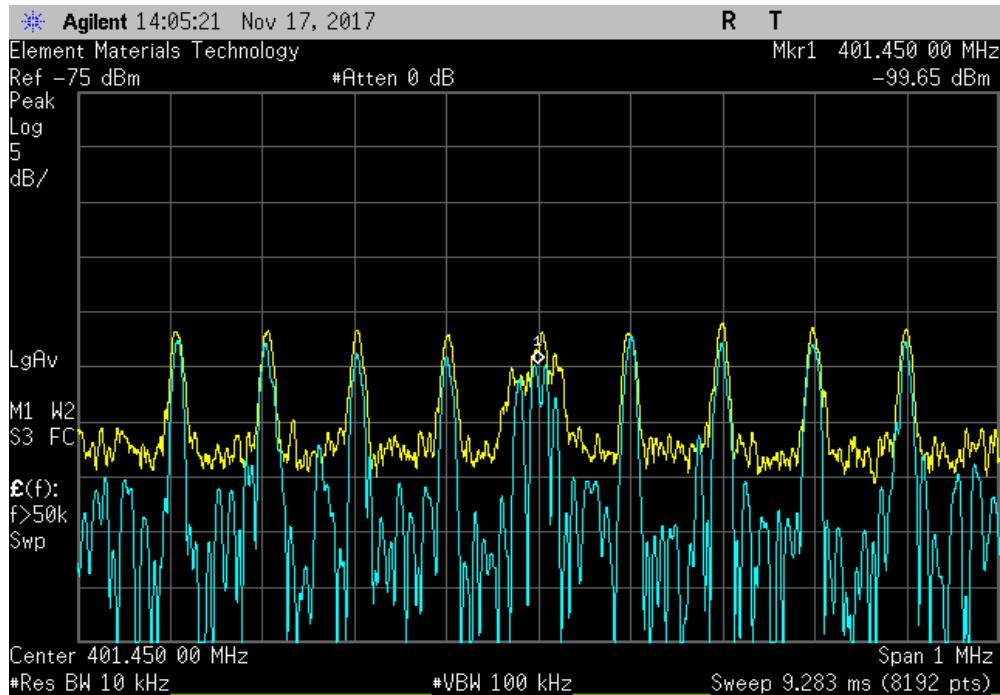


LBT THRESHOLD POWER LEVEL

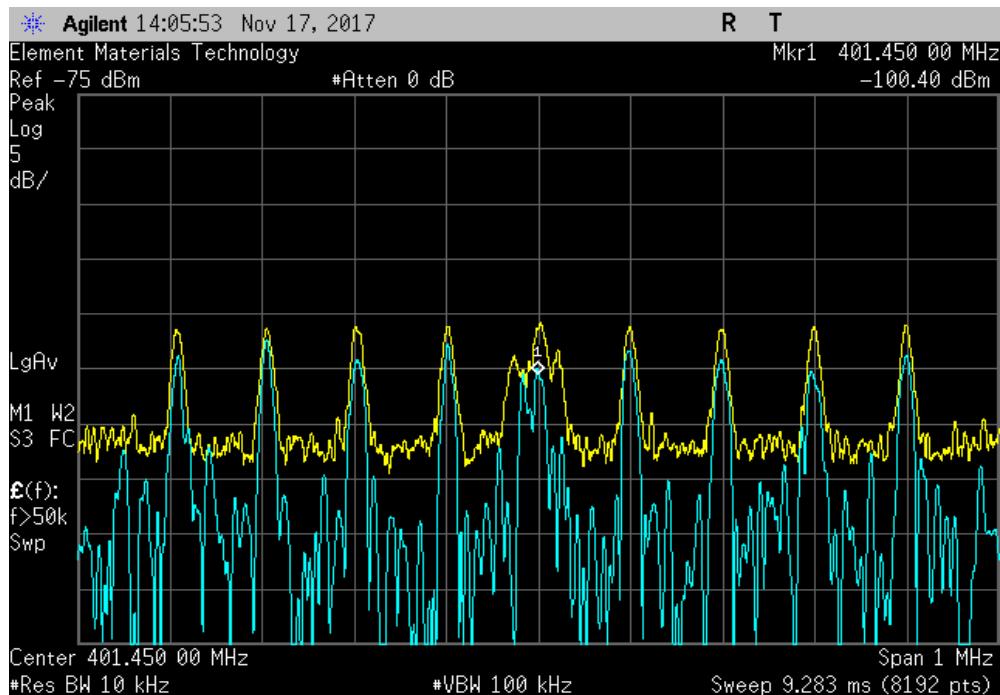


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401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold 0dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold +1dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold +2dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



401 - 402 MHz Band, Mid Channel, 401.55 MHz, LBT Threshold +3dB		
CW -4dB Power Level	Limit (≤)	Result
-99.68 dBm	-98.75 dBm	Pass



LBT THRESHOLD POWER LEVEL



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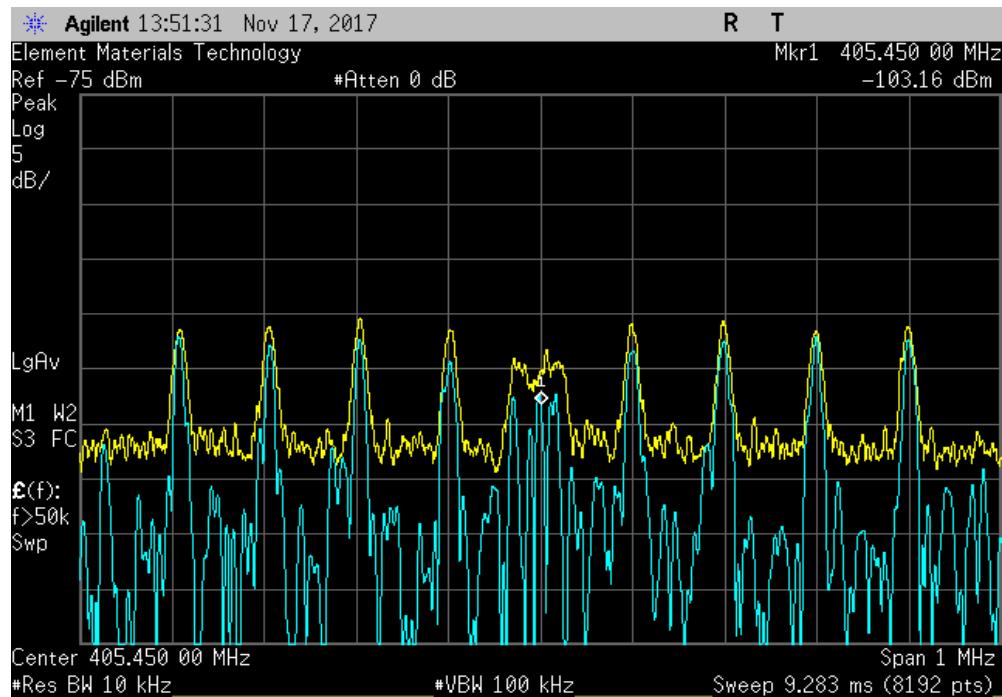
LBT THRESHOLD POWER LEVEL



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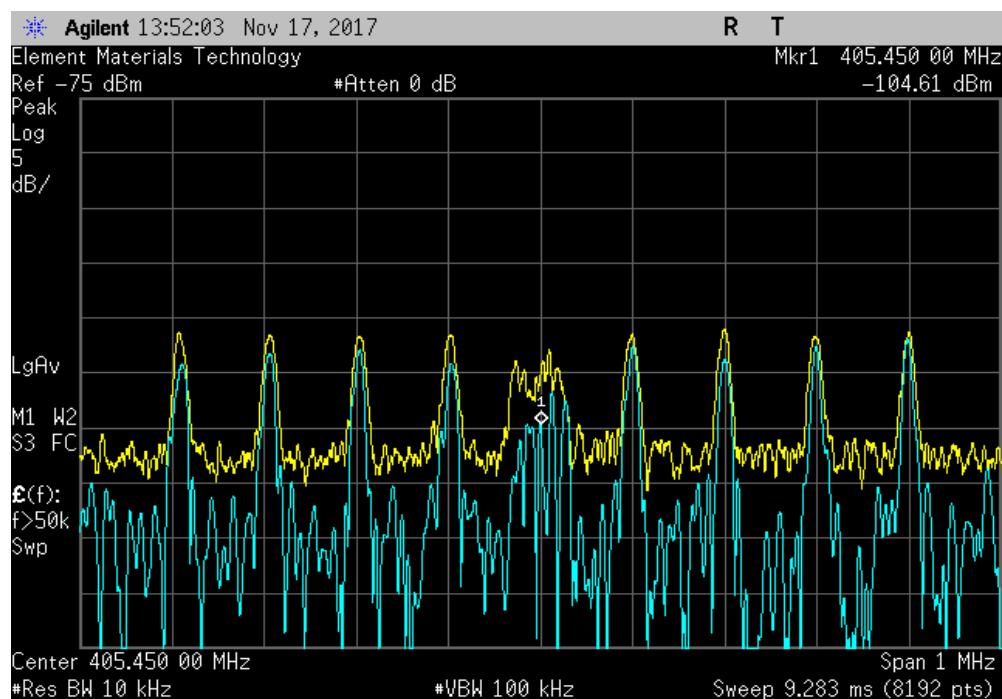
405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold -5dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold -4dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



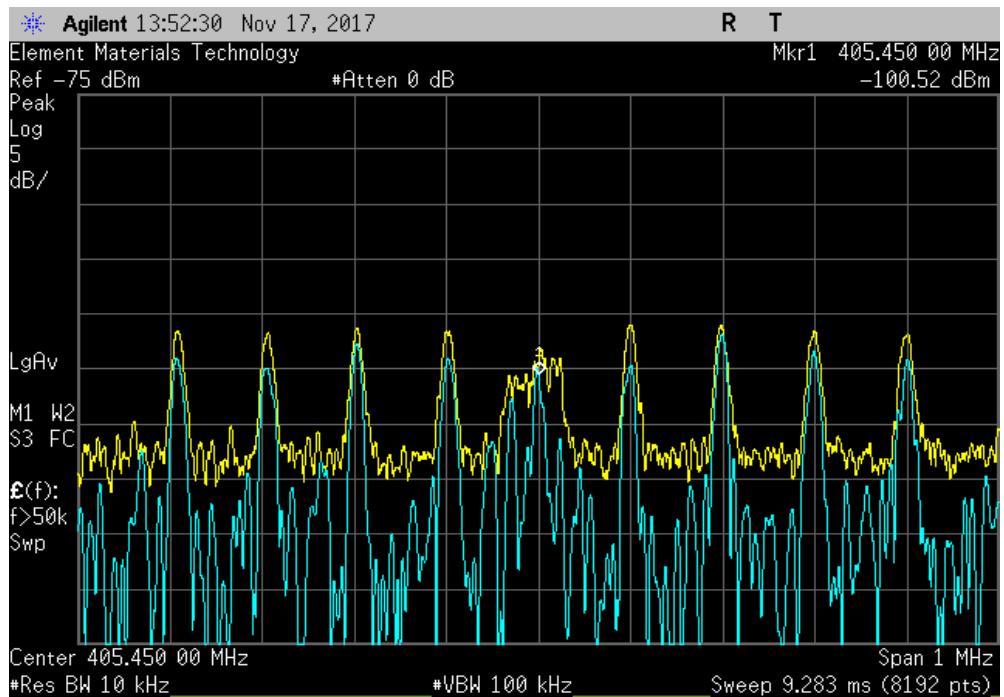
LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

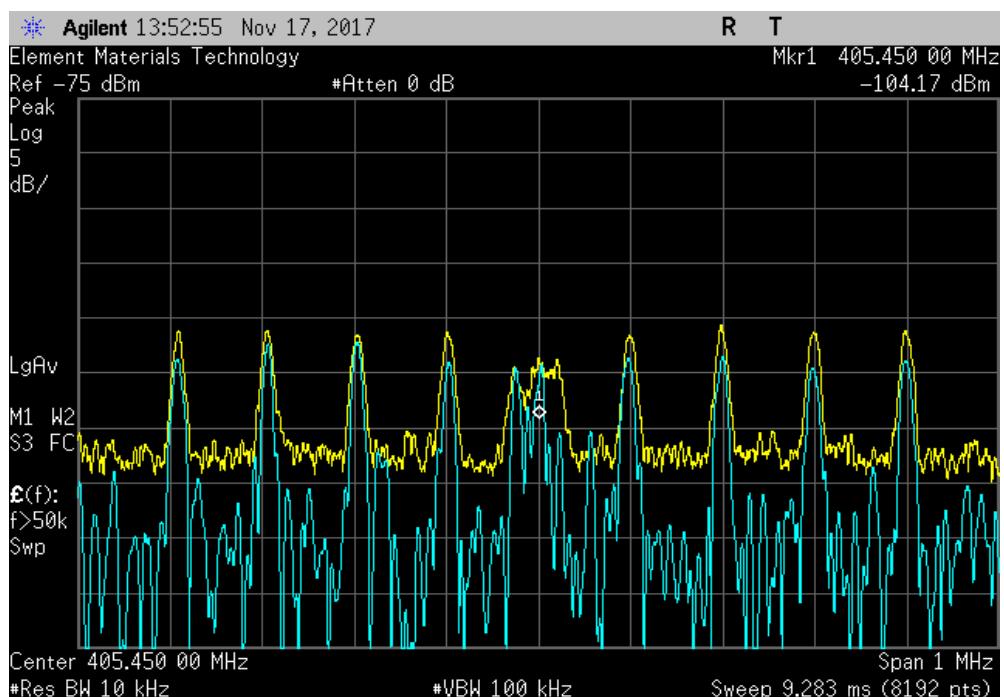
405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold -3dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold -2dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



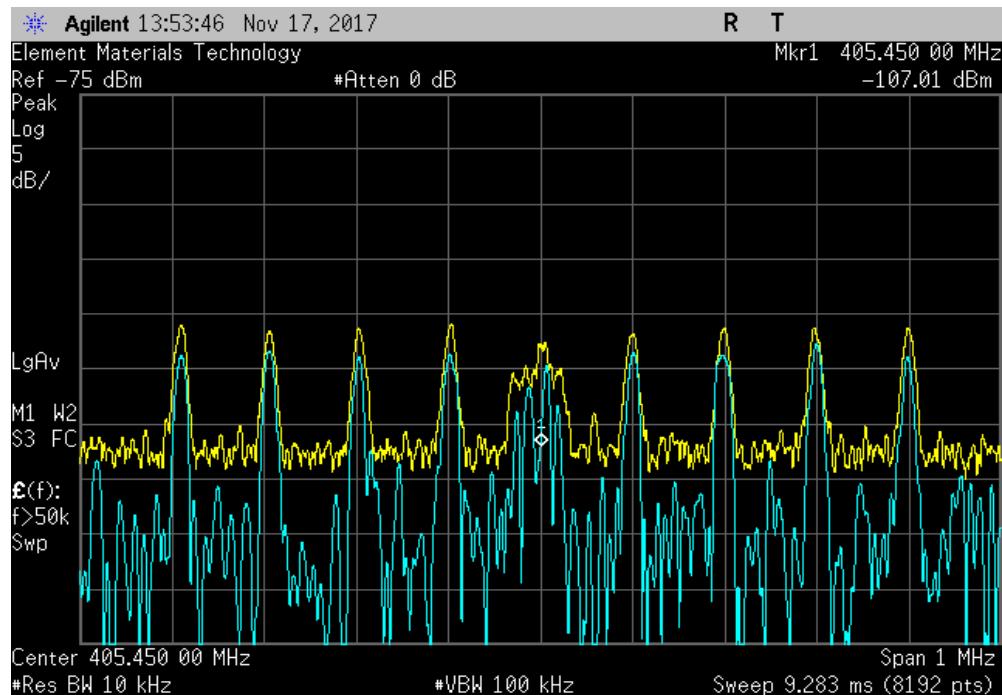
LBT THRESHOLD POWER LEVEL



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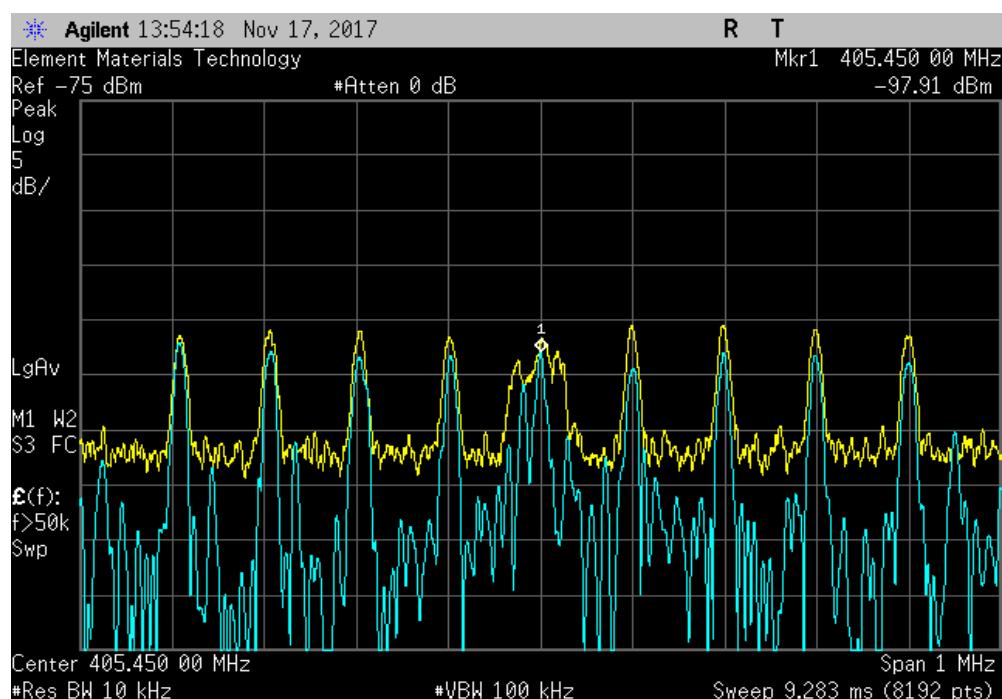
405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold -1dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold 0dB

CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold +1dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold +2dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



LBT THRESHOLD POWER LEVEL



XMT 2017.09.21

405 - 406 MHz Band, Mid Channel, 405.55 MHz, LBT Threshold +3dB			
CW -4dB	Limit		
Power Level	(≤)	Result	
	-99.63 dBm	-98.75 dBm	Pass



LBT THRESHOLD POWER LEVEL



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

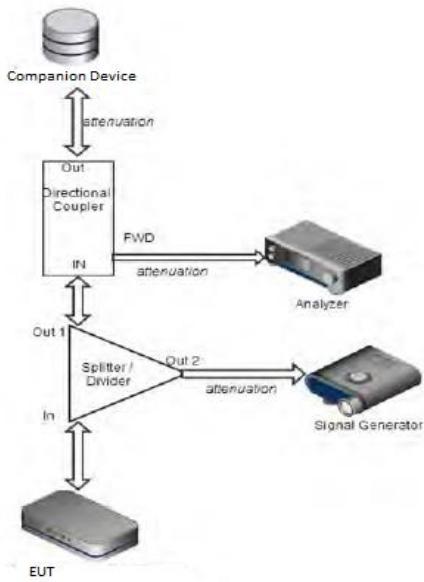
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 3 \text{ dB}$.

The spectrum analyzer was set to monitor the EUT communications channel in the transmit band of 402-405 MHz. The multitone signal of the intended frequency (F_c) was set to the LBT threshold - 6 dB, and raised by 1 dB increments until the EUT choose a different channel to start a session. Screen captures were provided to show the EUT behavior at the different LBT threshold levels.

The signal generator amplitude at F_c was then measured and recorded with the spectrum analyzer.



LBT THRESHOLD POWER LEVEL



XMI 2017.08.21

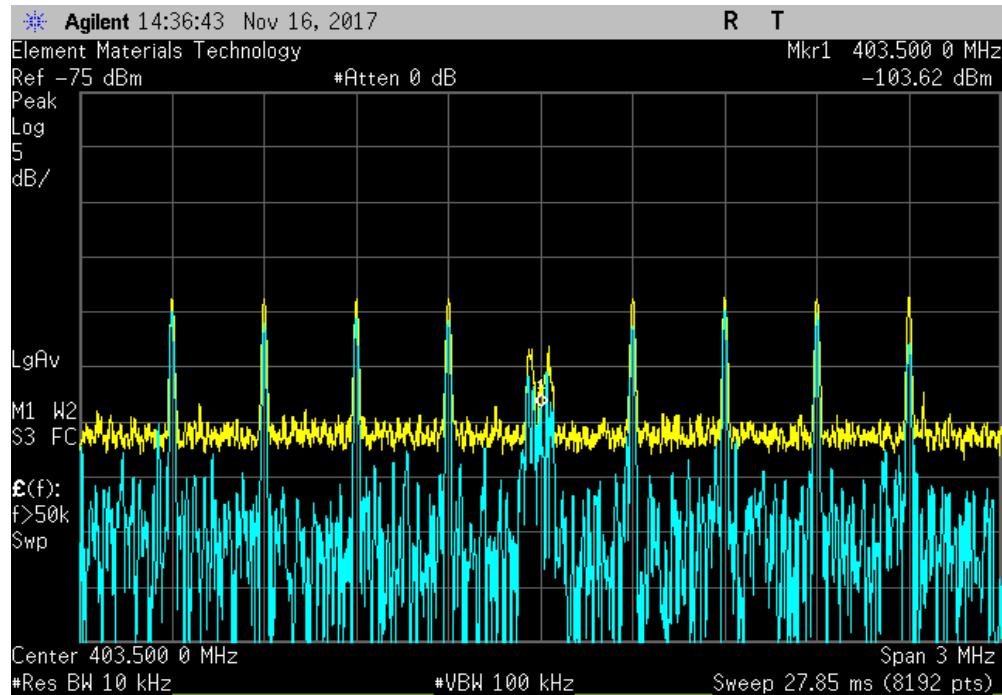
EUT: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order: AXON0097		
Serial Number: AC1C870003		Date: 20-Nov-17		
Customer: Axonics Modulation Technologies, Inc.		Temperature: 21.4 °C		
Attendees: Franklin Portillo		Humidity: 45.7% RH		
Project: None		Barometric Pres.: 1018 mbar		
Tested by: Johnny Candelas	Power: 7.6VDC	Job Site: OC13		
TEST SPECIFICATIONS				
EN 301 839 V2.1.1:2016		Test Method		
EN 301 839 V2.1.1:2016				
COMMENTS				
Calculated LBT Threshold = $10 * \text{LOG}(\text{Bandwidth}) - 150 + \text{Antenna Gain} = -96.87 \text{ dBm}$. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	30	Signature		
		CW -4dB Power Level	Limit (s)	Result
Mid Channel, 403.5 MHz				
LBT Threshold -6dB		N/A	N/A	N/A
LBT Threshold -5dB		N/A	N/A	N/A
LBT Threshold -4dB		N/A	N/A	N/A
LBT Threshold -3dB		N/A	N/A	N/A
LBT Threshold -2dB		N/A	N/A	N/A
LBT Threshold -1dB		N/A	N/A	N/A
LBT Threshold 0dB		N/A	N/A	N/A
LBT Threshold +1dB		N/A	N/A	N/A
LBT Threshold +2dB		N/A	N/A	N/A
LBT Threshold +3dB		-99.68 dBm	-96.87 dBm	Pass

LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

Mid Channel, 403.5 MHz, LBT Threshold -6dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



Mid Channel, 403.5 MHz, LBT Threshold -5dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A

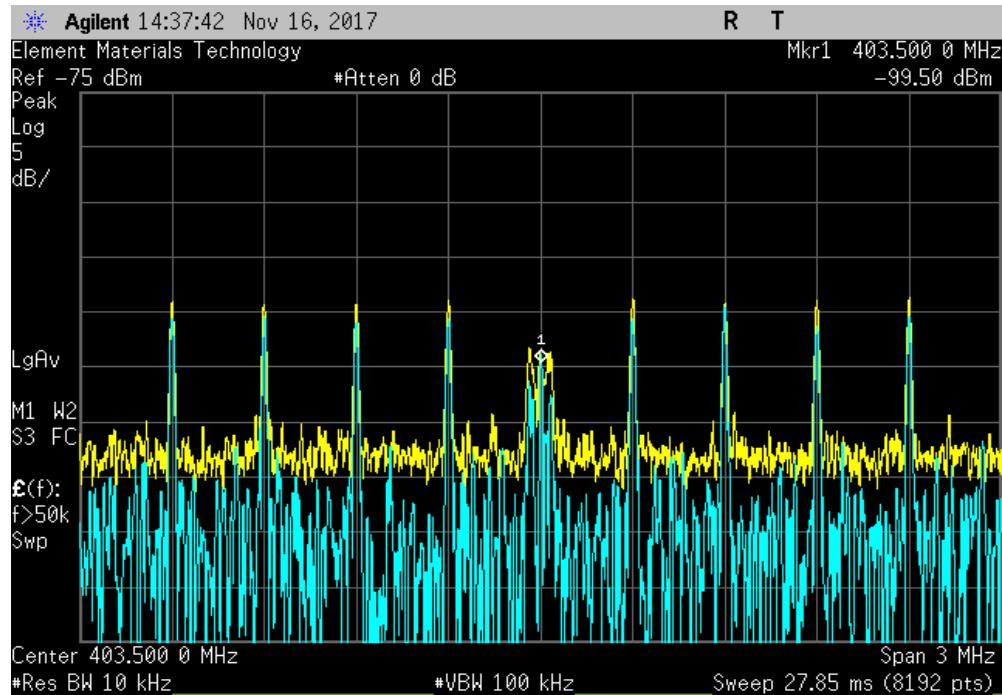


LBT THRESHOLD POWER LEVEL

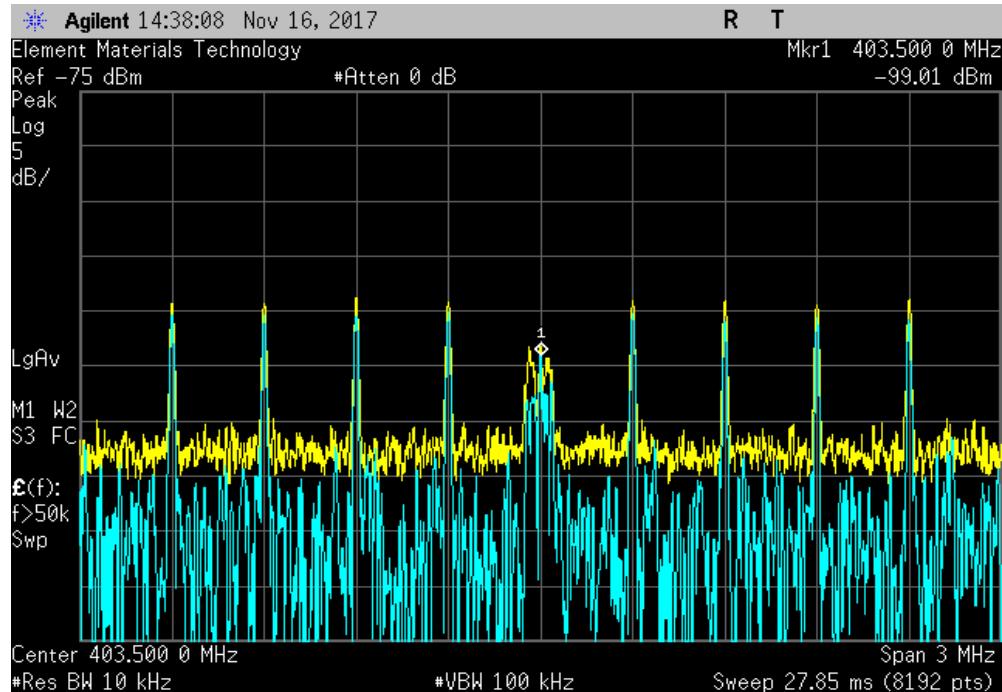


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Mid Channel, 403.5 MHz, LBT Threshold -4dB			CW -4dB	Limit (≤)	Result
Power Level	N/A	N/A	N/A	N/A	N/A



Mid Channel, 403.5 MHz, LBT Threshold -3dB			CW -4dB	Limit (≤)	Result
Power Level	N/A	N/A	N/A	N/A	N/A



LBT THRESHOLD POWER LEVEL

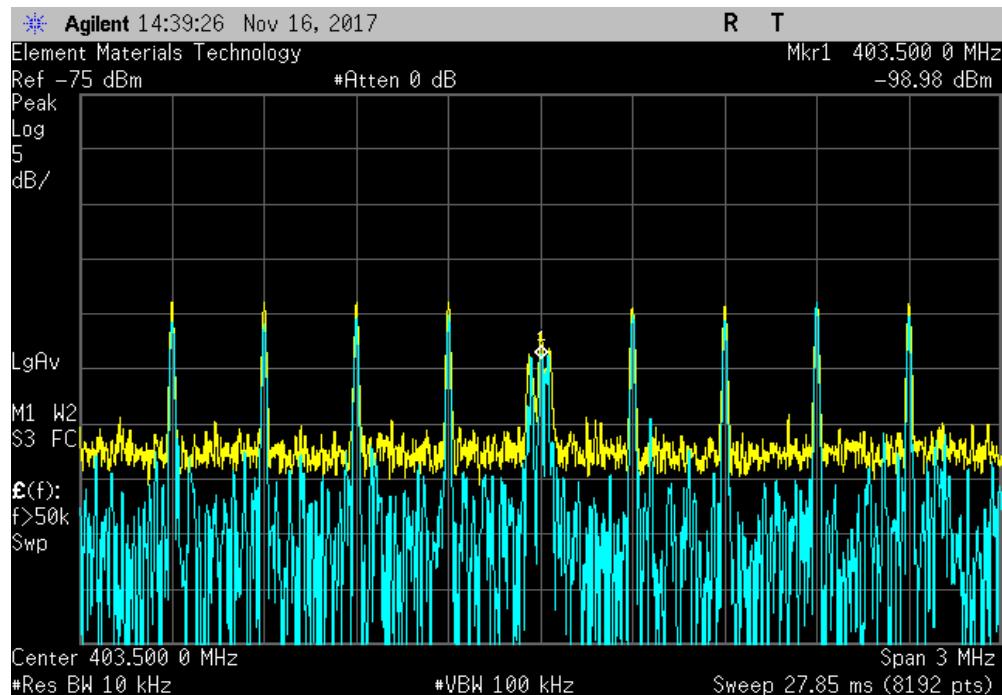


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Mid Channel, 403.5 MHz, LBT Threshold -2dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A



Mid Channel, 403.5 MHz, LBT Threshold -1dB		
CW -4dB Power Level	Limit (≤)	Result
N/A	N/A	N/A

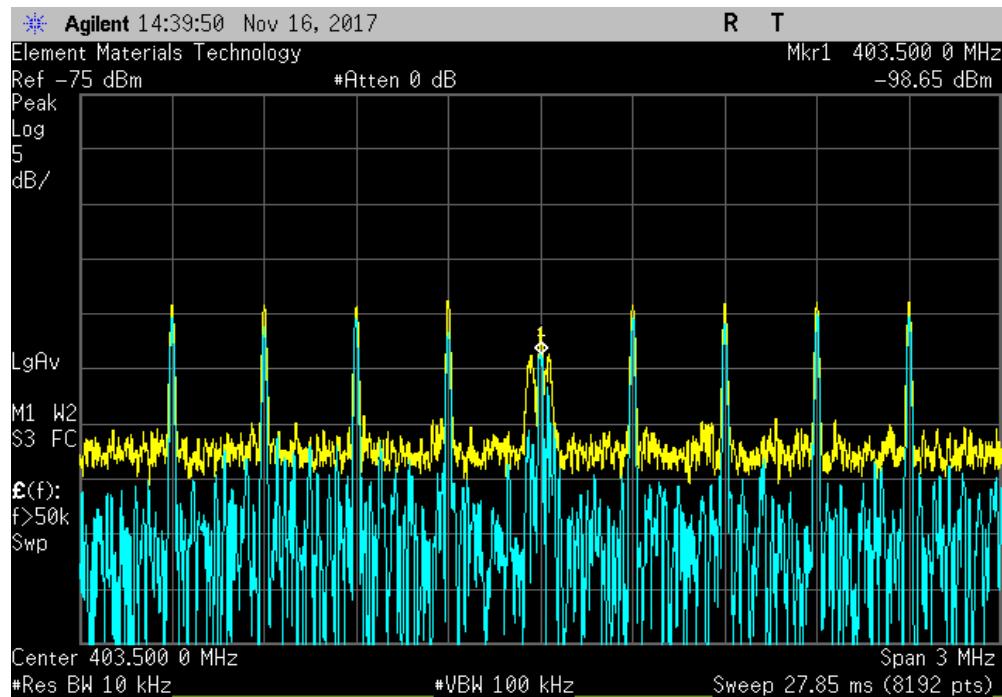


LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

Mid Channel, 403.5 MHz, LBT Threshold 0dB			CW -4dB	Limit (≤)	Result
	Power Level		N/A	N/A	N/A



Mid Channel, 403.5 MHz, LBT Threshold +1dB			CW -4dB	Limit (≤)	Result
	Power Level		N/A	N/A	N/A

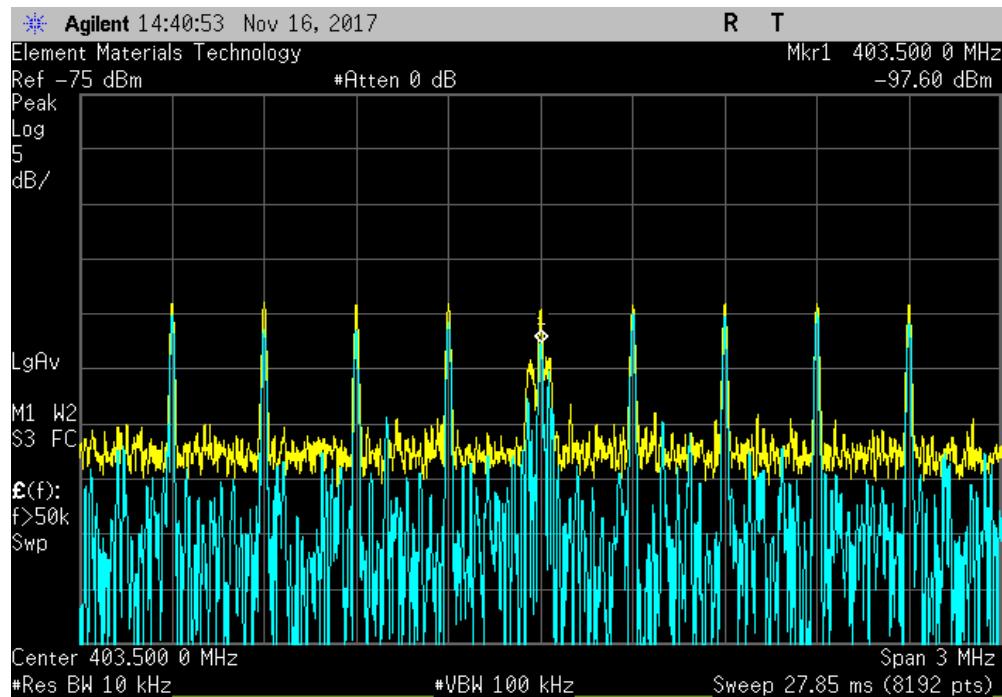


LBT THRESHOLD POWER LEVEL



XMI 2017.09.21

Mid Channel, 403.5 MHz, LBT Threshold +2dB			CW -4dB	Limit (≤)	Result
Power Level	N/A	N/A	N/A	N/A	N/A



Mid Channel, 403.5 MHz, LBT Threshold +3dB			CW -4dB	Limit (≤)	Result
Power Level	-99.68 dBm	-96.87 dBm	Pass		



MONITORING SYSTEM BANDWIDTH



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

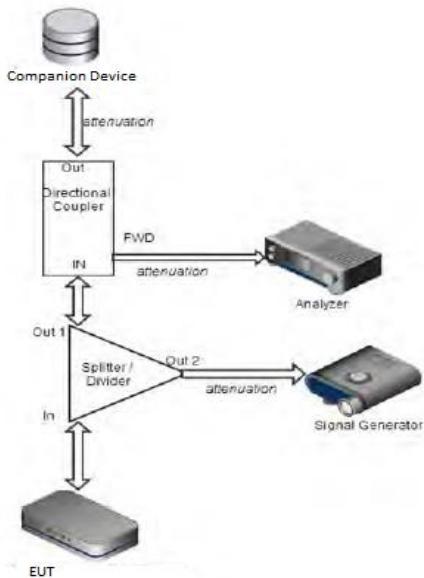
The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 3 \text{ dB}$.

The spectrum analyzer was set to measure the transmit bands of 401-402 and 405-406 MHz. The multitone signal of the intended frequency (F_c) was set to a level above the LBT threshold, and lowered by 1 dB increments until the EUT chooses the intended frequency (F_c) to start a session on.

The blocking frequency at F_c was then lowered to $F_c - \text{Bandwidth} / 2$. The amplitude was then raised until the EUT chooses a channel other than F_c . This was repeated with the blocking frequency raised to $F_c + \text{Bandwidth} / 2$.

The signal generator amplitude at F_c was measured at each point.



MONITORING SYSTEM BANDWIDTH



XMI 2017.08.21

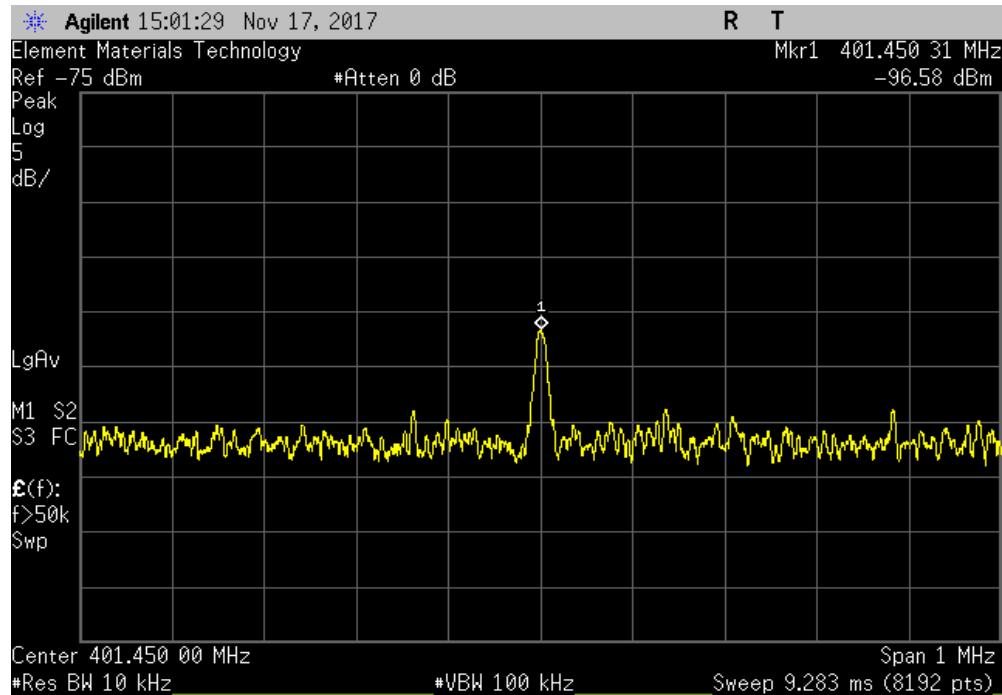
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097			
Serial Number:	AC1C870003		Date:	20-Nov-17			
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C			
Attendees:	Franklin Portillo		Humidity:	45.7% RH			
Project:	None		Barometric Pres.:	1018 mbar			
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13		
TEST SPECIFICATIONS		Test Method					
EN 302 537 V2.1.1:2016		EN 302 537 V2.1.1:2016					
COMMENTS							
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	30	Signature					
			Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
401-402 MHz Band		Mid Channel (Fc), 401.55 MHz					
CW Signal on Fc = (Pa)			-96.58	N/A	N/A	N/A	
CW Signal on Fc - EBW/2 = (Pb)			-96.40	N/A	N/A	N/A	
CW Signal on Fc + EBW/2 = (Pc)			-96.90	N/A	N/A	N/A	
405-406 MHz Band		Mid Channel (Fc), 405.55 MHz					
CW Signal on Fc = (Pa)			-96.41	N/A	N/A	N/A	
CW Signal on Fc - EBW/2 = (Pb)			-96.79	N/A	N/A	N/A	
CW Signal on Fc + EBW/2 = (Pc)			-96.67	N/A	N/A	N/A	
Calculation:		Mid Channel (Fc), 401.55 MHz					
(Pa) - (Pb) = D1			N/A	0.18	< 20	Pass	
(Pa) - (Pc) = D2			N/A	0.32	< 20	Pass	
Mid Channel (Fc), 405.55 MHz							
(Pa) - (Pb) = D1			N/A	0.38	< 20	Pass	
(Pa) - (Pc) = D2			N/A	0.26	< 20	Pass	

MONITORING SYSTEM BANDWIDTH

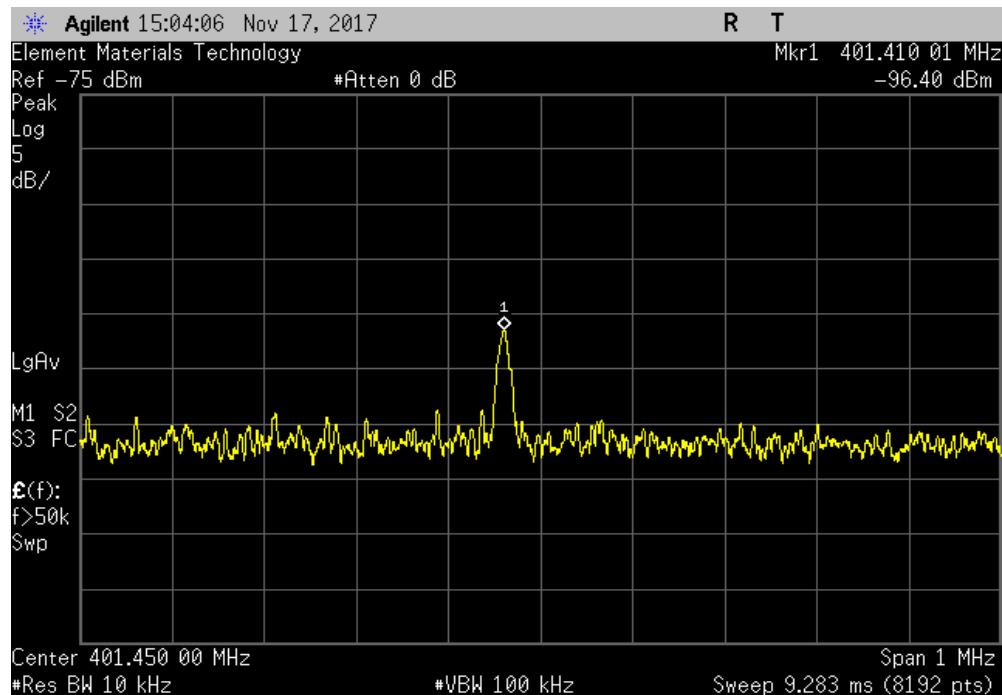


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, CW Signal on Fc = (Pa)					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	-96.58	N/A	N/A	N/A	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, CW Signal on Fc - EBW/2 = (Pb)					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	-96.40	N/A	N/A	N/A	

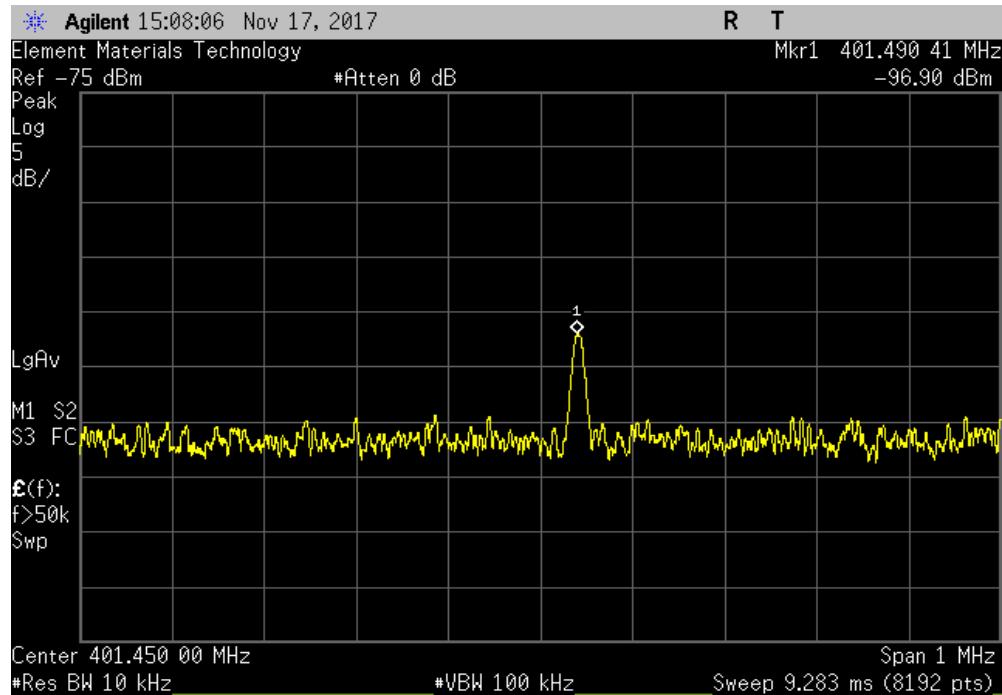


MONITORING SYSTEM BANDWIDTH

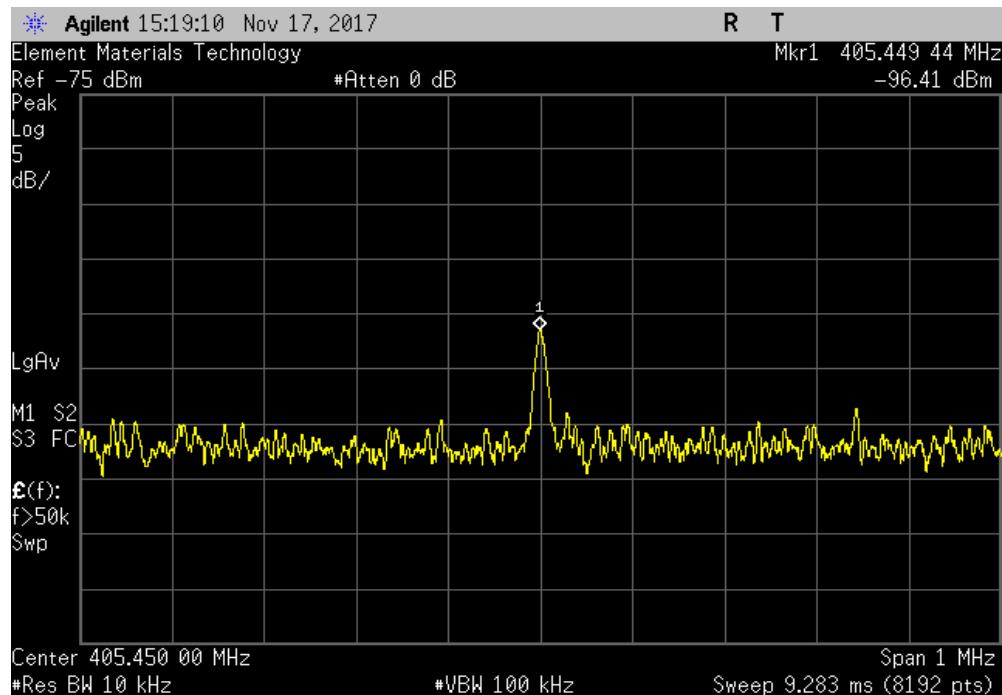


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, CW Signal on Fc + EBW/2 = (Pc)					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	-96.90	N/A	N/A	N/A	



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, CW Signal on Fc = (Pa)					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	-96.41	N/A	N/A	N/A	

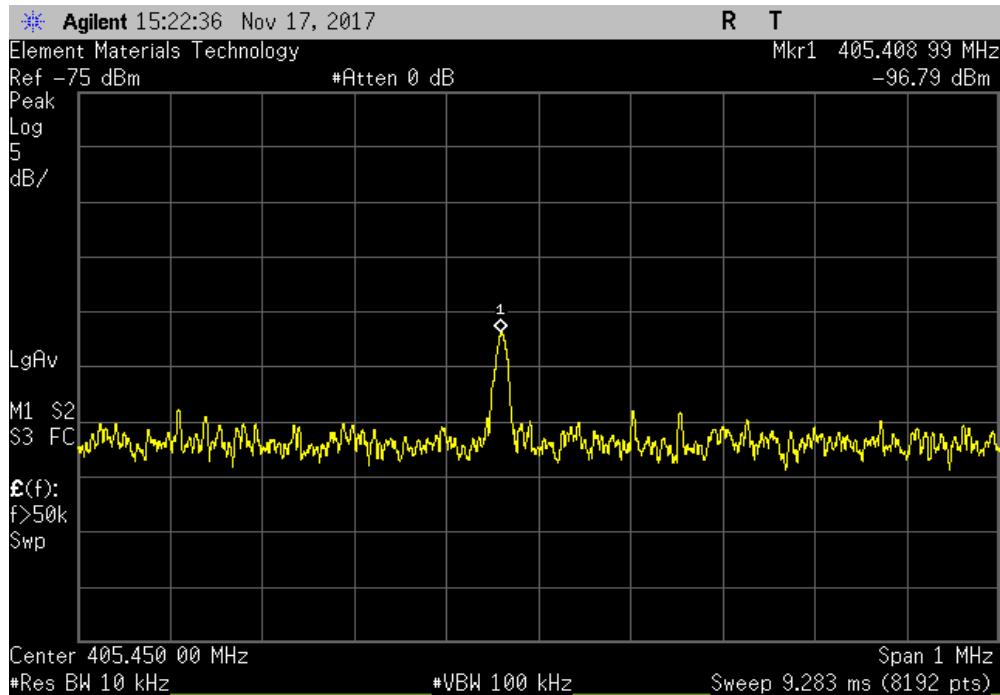


MONITORING SYSTEM BANDWIDTH

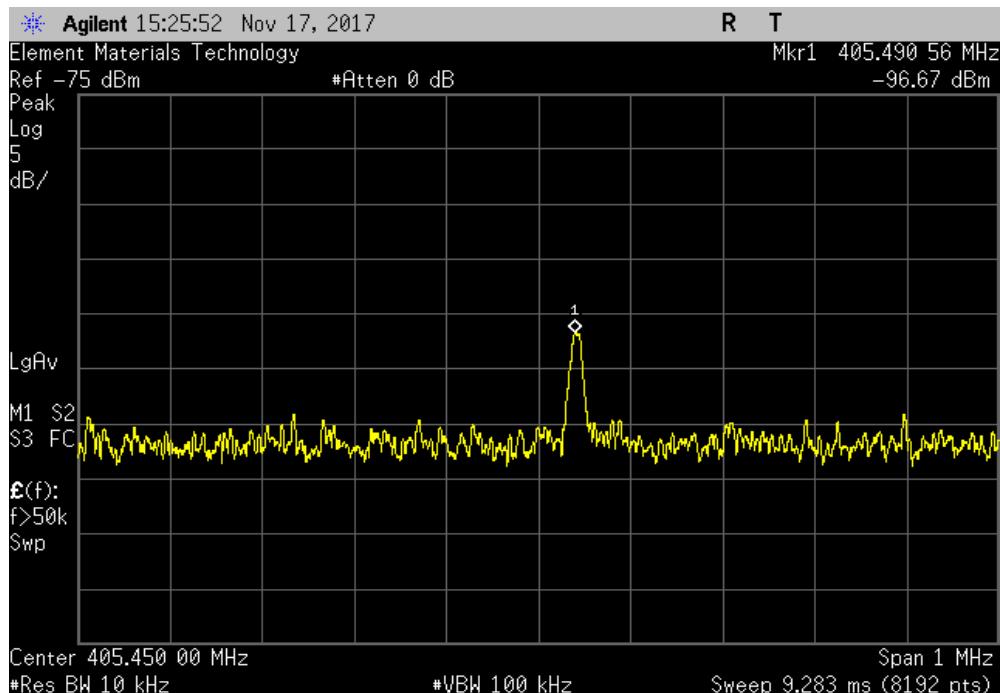


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405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, CW Signal on Fc - EBW/2 = (Pb)			
Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result
-96.79	N/A	N/A	N/A



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, CW Signal on Fc + EBW/2 = (Pc)			
Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result
-96.67	N/A	N/A	N/A





MONITORING SYSTEM BANDWIDTH

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Calculation: Mid Channel (Fc), 401.55 MHz, (Pa) - (Pb) = D1					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	N/A	0.18	< 20	Pass	

Calculation: Mid Channel (Fc), 401.55 MHz, (Pa) - (Pc) = D2					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	N/A	0.32	< 20	Pass	

Calculation: Mid Channel (Fc), 405.55 MHz, (Pa) - (Pb) = D1					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	N/A	0.38	< 20	Pass	

Calculation: Mid Channel (Fc), 405.55 MHz, (Pa) - (Pc) = D2					
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result	
	N/A	0.26	< 20	Pass	

MONITORING SYSTEM BANDWIDTH



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

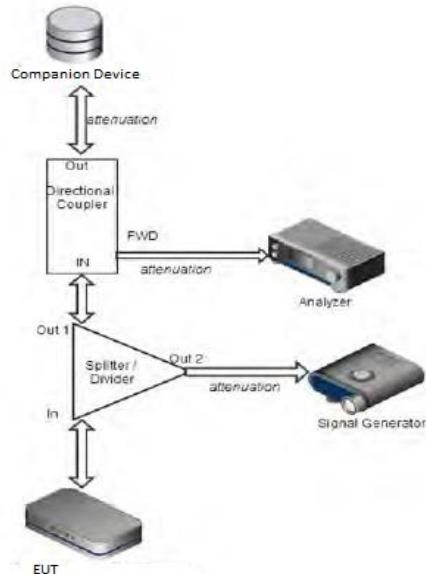
The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 3 \text{ dB}$.

The spectrum analyzer was set to measure the transmit band of 402-405 MHz. The multitone signal of the intended frequency (F_c) was set to a level above the LBT threshold, and lowered by 1 dB increments until the EUT chooses the intended frequency (F_c) to start a session on.

The blocking frequency at F_c was then lowered to $F_c - \text{Bandwidth} / 2$. The amplitude was then raised until the EUT chooses a channel other than F_c . This was repeated with the blocking frequency raised to $F_c + \text{Bandwidth} / 2$.

The signal generator amplitude at F_c was measured at each point.



MONITORING SYSTEM BANDWIDTH



XMI 2017.08.21

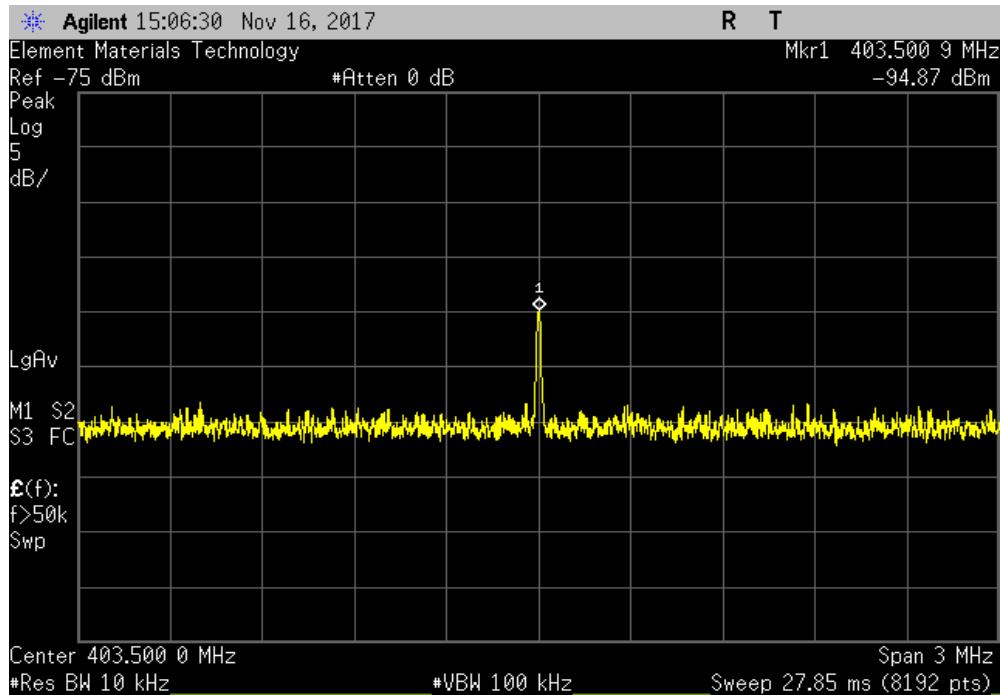
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097	
Serial Number:	AC1C870003		Date:	20-Nov-17	
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C	
Attendees:	Franklin Portillo		Humidity:	45.7% RH	
Project:	None		Barometric Pres.:	1018 mbar	
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13
TEST SPECIFICATIONS			Test Method		
EN 301 839 V2.1.1:2016			EN 301 839 V2.1.1:2016		
COMMENTS					
<p>Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.</p>					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	30	Signature		Measured Value (dBm)	Delta Value (dB)
				N/A	N/A
				-94.87	N/A
				-94.76	N/A
				-94.69	N/A
				N/A	1.30
				N/A	1.26
					< 20
					Pass
					Pass
Mid Channel (Fc), 403.5 MHz					
CW Signal on Fc = (Pa) CW Signal on Fc - EBW/2 = (Pb) CW Signal on Fc + EBW/2 = (Pc) Calculation: (Pa) - (Pb) = D1 Calculation: (Pa) - (Pc) = D2					

MONITORING SYSTEM BANDWIDTH

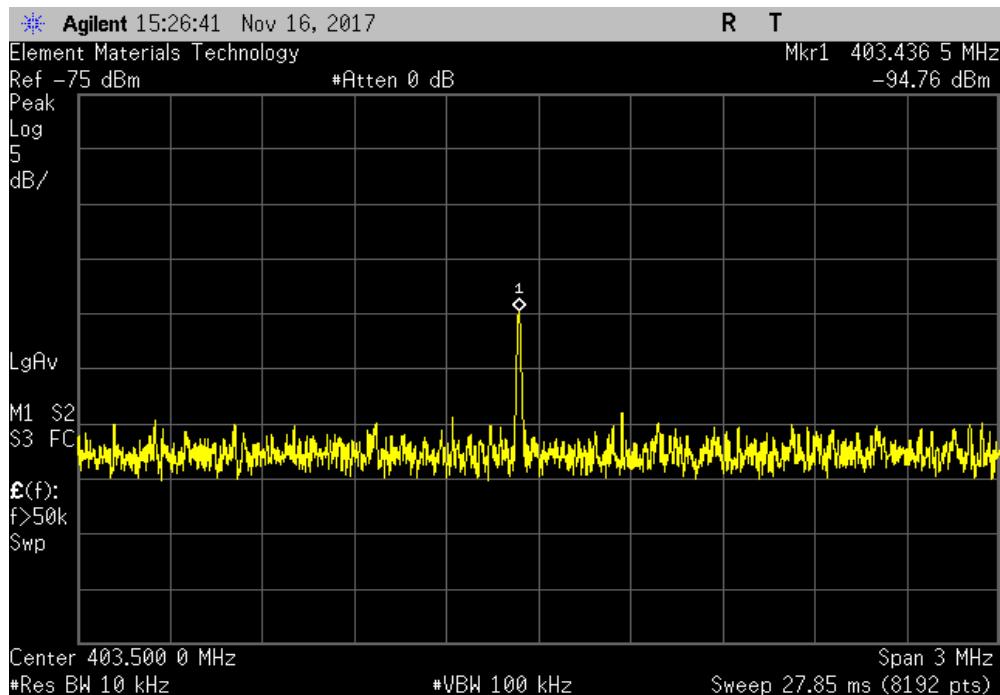


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Mid Channel (Fc), 403.5 MHz, CW Signal on Fc = (Pa)			
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)
	-94.87	N/A	N/A



Mid Channel (Fc), 403.5 MHz, CW Signal on Fc - EBW/2 = (Pb)			
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)
	-94.76	N/A	N/A



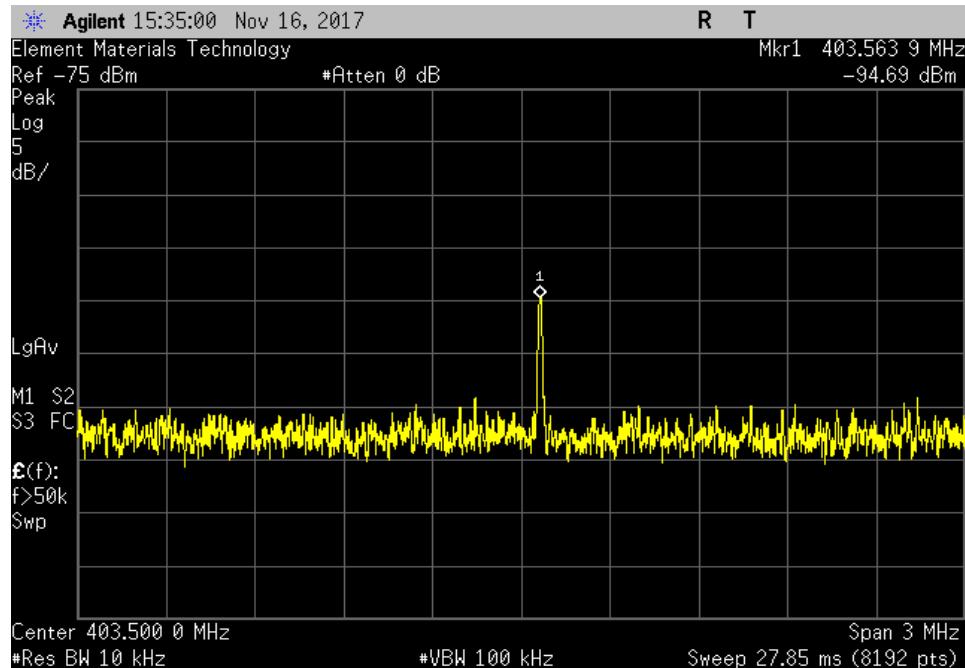
MONITORING SYSTEM BANDWIDTH



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Mid Channel (Fc), 403.5 MHz, CW Signal on Fc + EBW/2 = (Pc)

	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result
	-94.69	N/A	N/A	N/A



Calculation: (Pa) - (Pb) = D1

	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result
	N/A	1.30	< 20	Pass
Calculation: (Pa) - (Pc) = D2				
	Measured Value (dBm)	Delta Value (dB)	Limit (dB)	Result
	N/A	1.26	< 20	Pass

MONITORING SYSTEM SCAN CYCLE TIME



XMit 2017.09.21

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

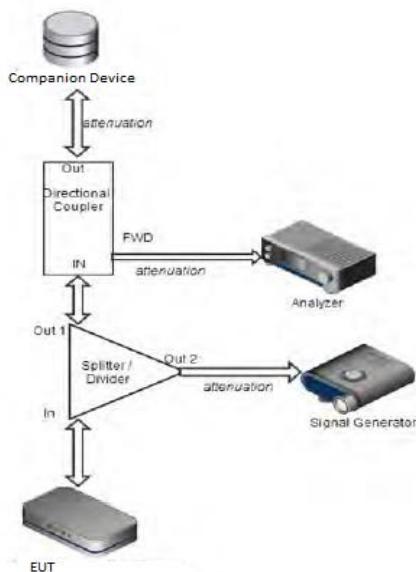
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The spectrum analyzer was set to zero span with a sweep time equal to 10 seconds.

The CW signal on the intended frequency (F_c) was removed. At the same time, the EUT was set to seek a session with the implantable device. The delay between F_c becoming available and the EUT establishing a session was measured.



MONITORING SYSTEM SCAN CYCLE TIME



XMI 2017.08.21

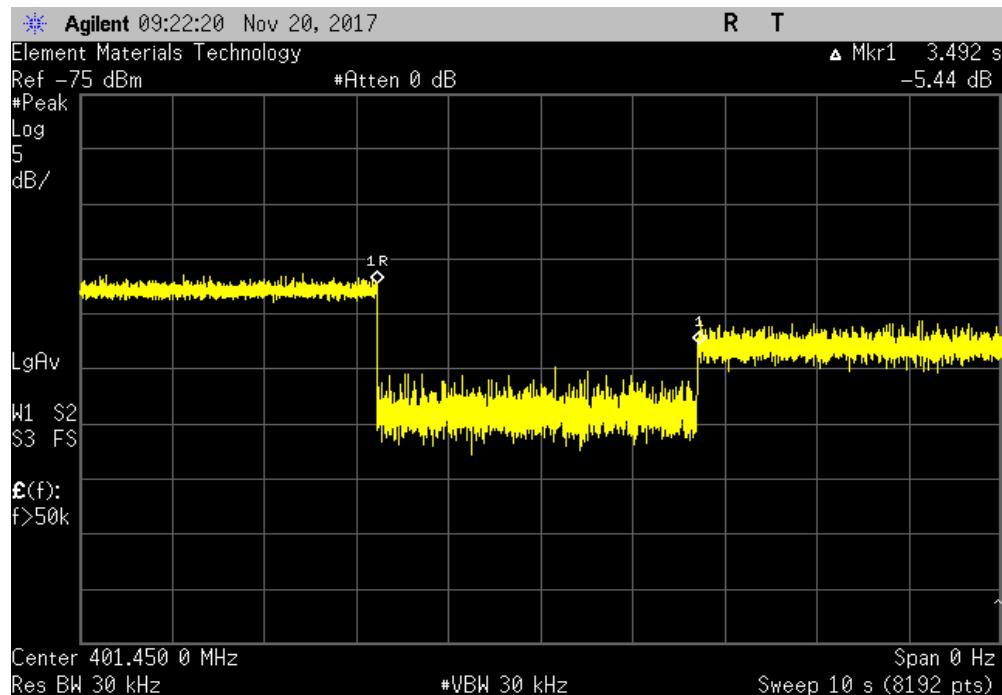
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097	
Serial Number:	AC1C870003		Date:	20-Nov-17	
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C	
Attendees:	Franklin Portillo		Humidity:	45.7% RH	
Project:	None		Barometric Pres.:	1018 mbar	
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13
TEST SPECIFICATIONS	Test Method				
EN 302 537 V2.1.1:2016	EN 302 537 V2.1.1:2016				
COMMENTS					
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	30	Signature			
401-402 MHz Band					
Mid Channel (Fc), 401.55 MHz					
Scan Cycle Time, Sample 1	3.492	≤ 5	Pass		
Scan Cycle Time, Sample 2	3.398	≤ 5	Pass		
Scan Cycle Time, Sample 3	3.448	≤ 5	Pass		
Scan Cycle Time, Sample 4	2.928	≤ 5	Pass		
Scan Cycle Time, Sample 5	3.121	≤ 5	Pass		
Scan Cycle Time, Sample 6	2.858	≤ 5	Pass		
Scan Cycle Time, Sample 7	3.028	≤ 5	Pass		
Scan Cycle Time, Sample 8	2.727	≤ 5	Pass		
Scan Cycle Time, Sample 9	2.880	≤ 5	Pass		
Scan Cycle Time, Sample 10	2.805	≤ 5	Pass		
405-406 MHz Band					
Mid Channel (Fc), 405.55 MHz					
Scan Cycle Time, Sample 1	2.899	≤ 5	Pass		
Scan Cycle Time, Sample 2	3.012	≤ 5	Pass		
Scan Cycle Time, Sample 3	2.707	≤ 5	Pass		
Scan Cycle Time, Sample 4	2.786	≤ 5	Pass		
Scan Cycle Time, Sample 5	2.929	≤ 5	Pass		
Scan Cycle Time, Sample 6	2.727	≤ 5	Pass		
Scan Cycle Time, Sample 7	2.982	≤ 5	Pass		
Scan Cycle Time, Sample 8	3.381	≤ 5	Pass		
Scan Cycle Time, Sample 9	3.239	≤ 5	Pass		
Scan Cycle Time, Sample 10	3.098	≤ 5	Pass		

MONITORING SYSTEM SCAN CYCLE TIME

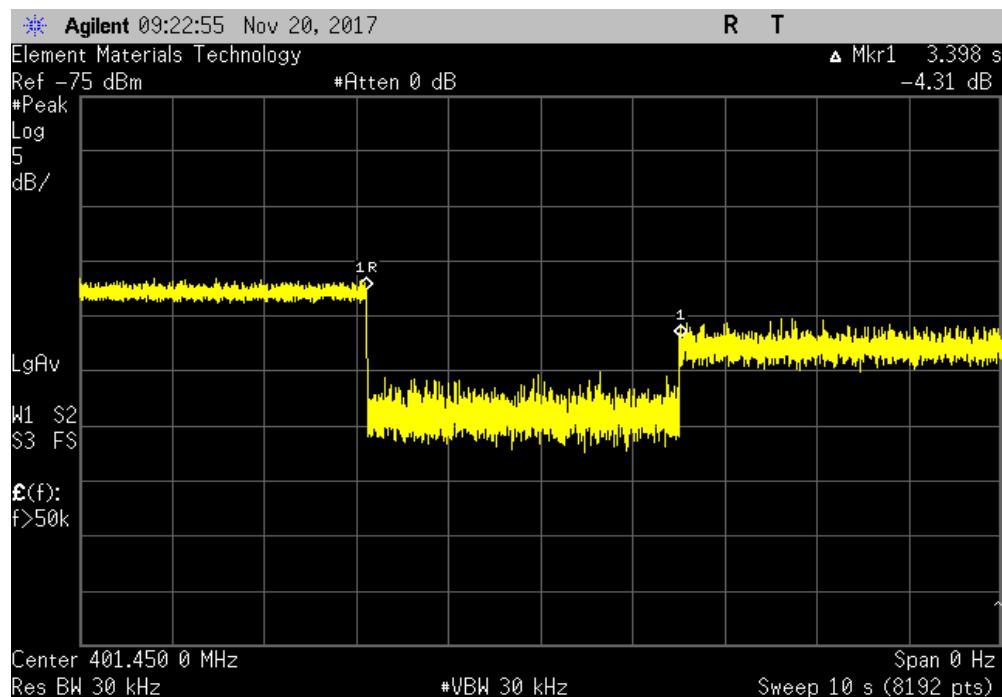


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 1			
	Value (Seconds)	Limit (Seconds)	Result
	3.492	≤ 5	Pass



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 2			
	Value (Seconds)	Limit (Seconds)	Result
	3.398	≤ 5	Pass

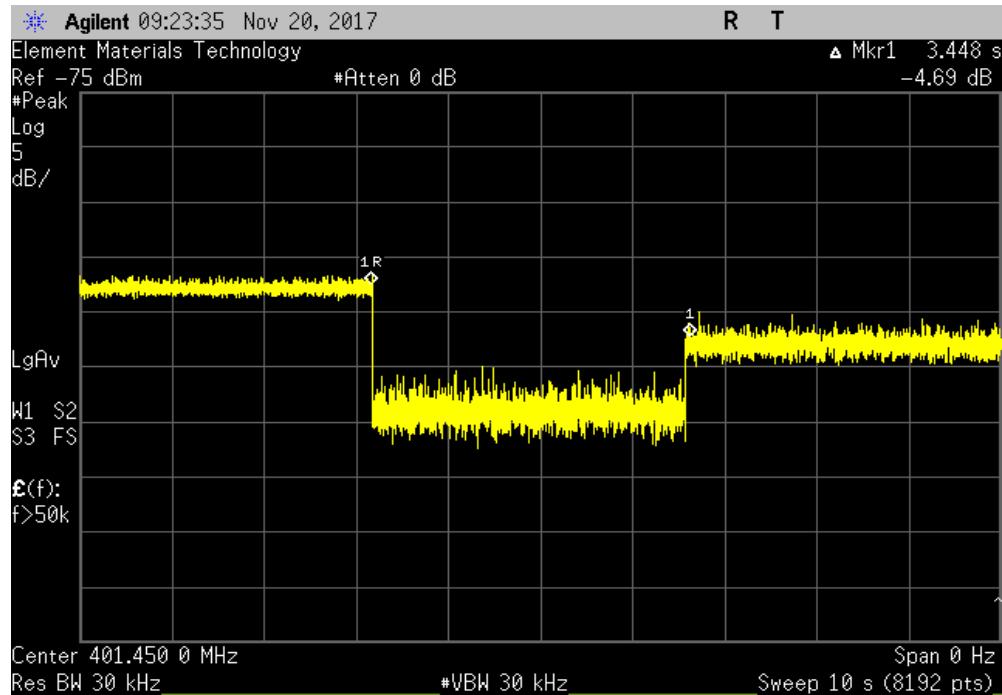


MONITORING SYSTEM SCAN CYCLE TIME

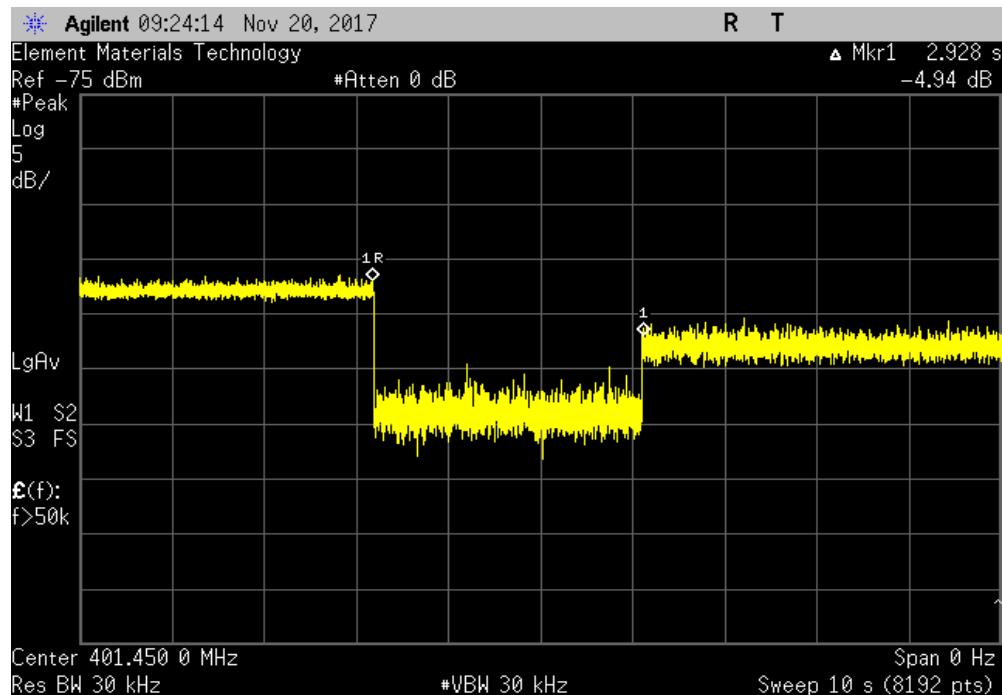


XMT 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 3			
	Value (Seconds)	Limit (Seconds)	Result
	3.448	≤ 5	Pass



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 4			
	Value (Seconds)	Limit (Seconds)	Result
	2.928	≤ 5	Pass

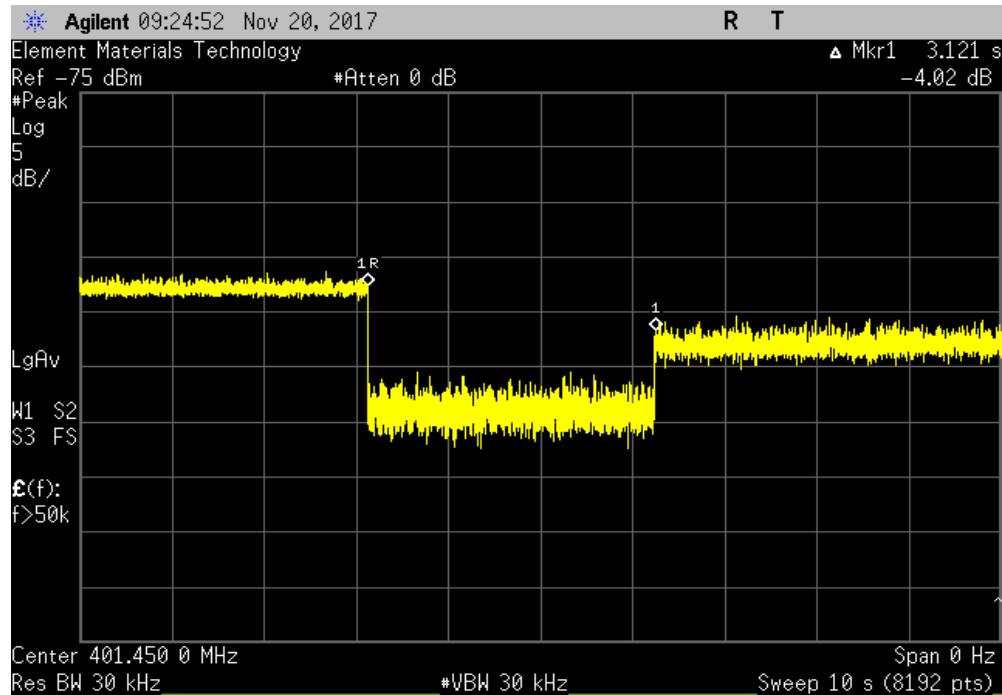


MONITORING SYSTEM SCAN CYCLE TIME

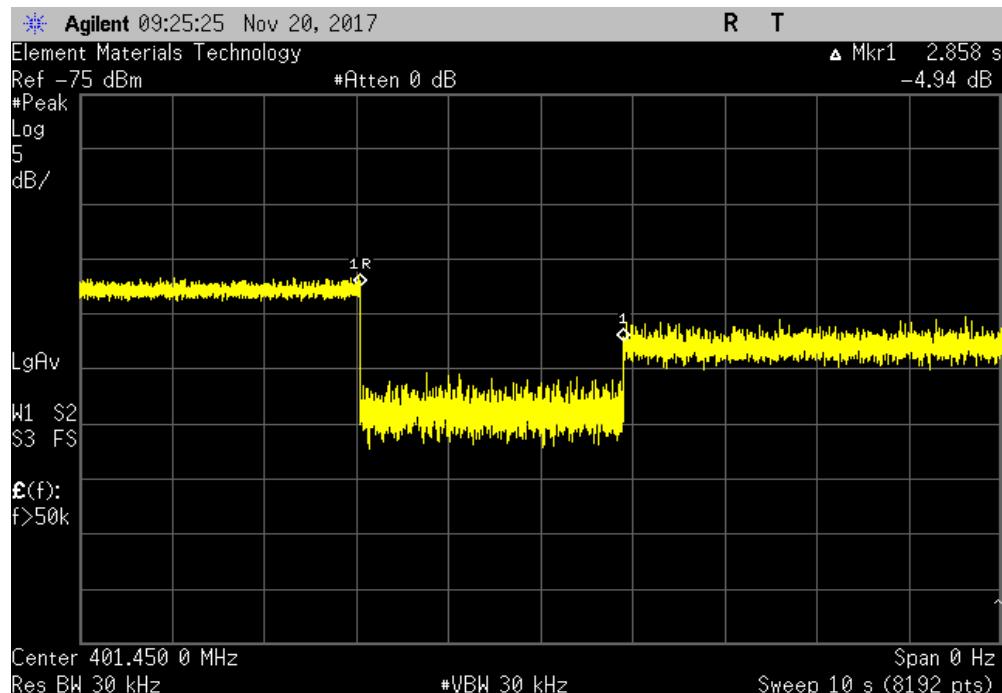


XMI 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 5			
	Value (Seconds)	Limit (Seconds)	Result
	3.121	≤ 5	Pass



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 6			
	Value (Seconds)	Limit (Seconds)	Result
	2.858	≤ 5	Pass

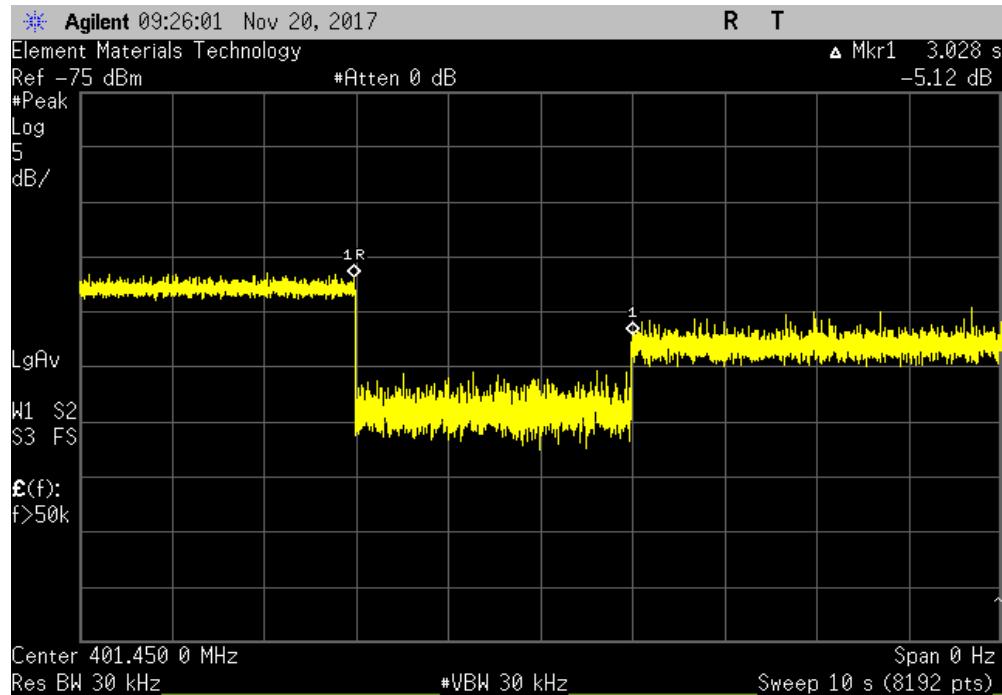


MONITORING SYSTEM SCAN CYCLE TIME

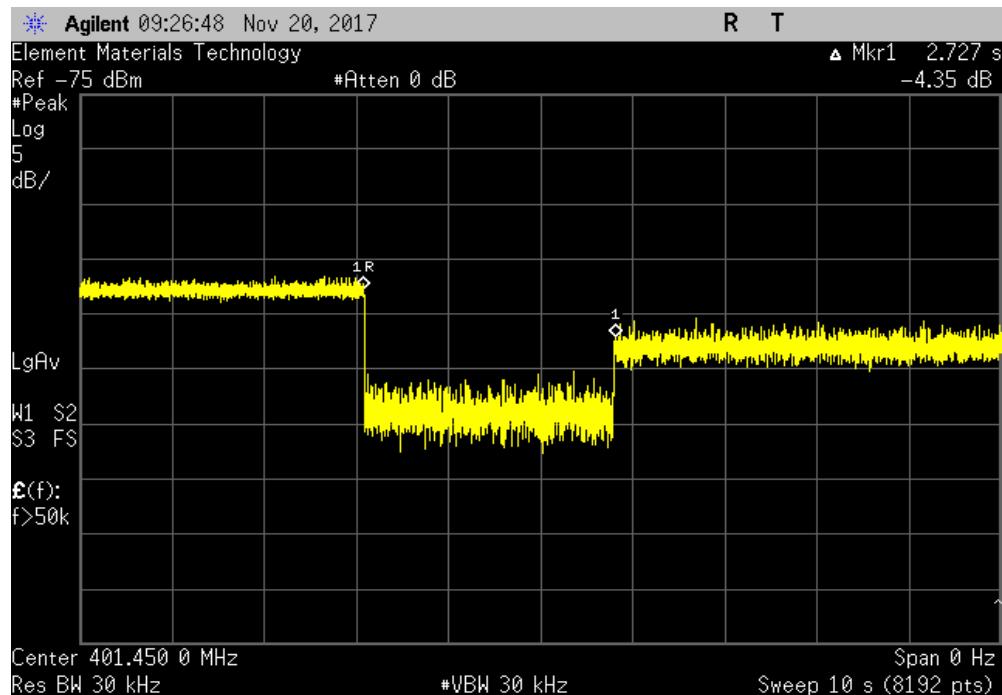


XMI 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 7			
	Value (Seconds)	Limit (Seconds)	Result
	3.028	≤ 5	Pass



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 8			
	Value (Seconds)	Limit (Seconds)	Result
	2.727	≤ 5	Pass

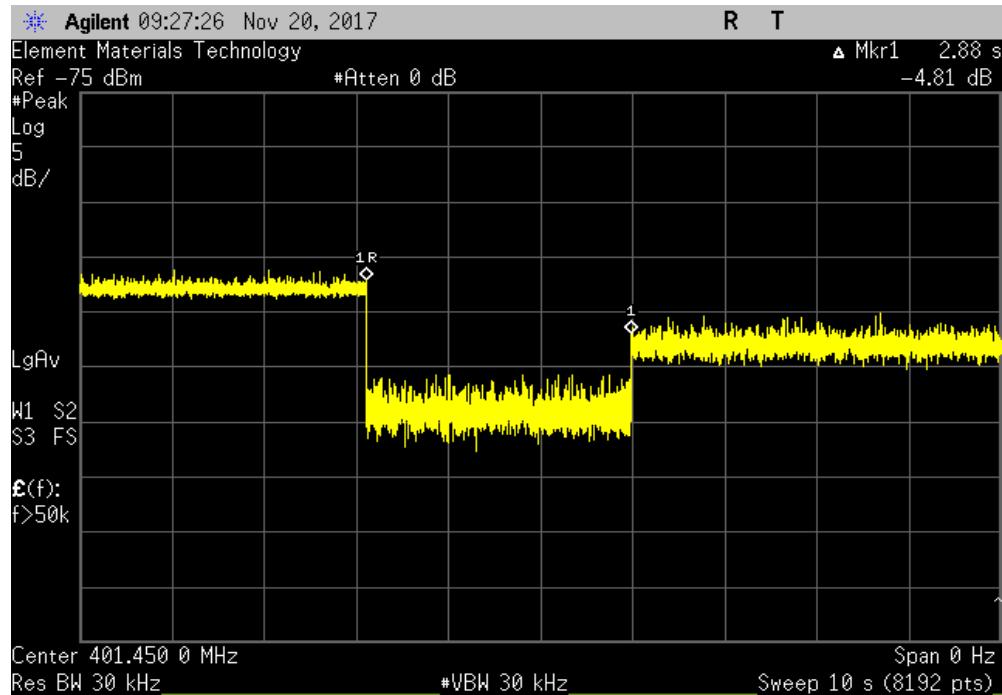


MONITORING SYSTEM SCAN CYCLE TIME

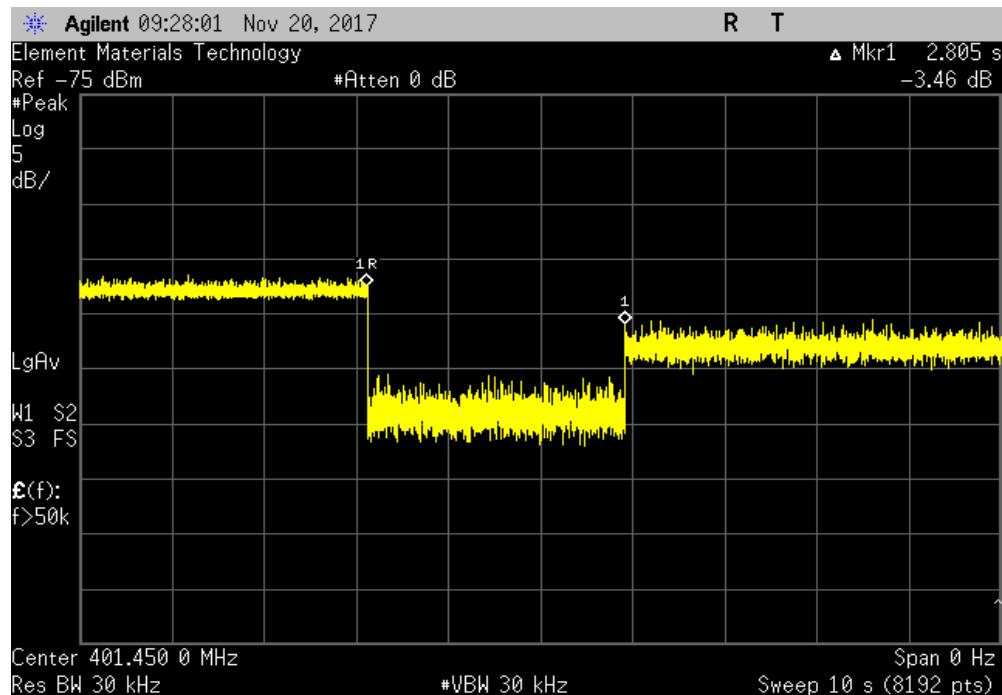


XMI 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 9			
	Value (Seconds)	Limit (Seconds)	Result
	2.880	≤ 5	Pass



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Scan Cycle Time, Sample 10			
	Value (Seconds)	Limit (Seconds)	Result
	2.805	≤ 5	Pass

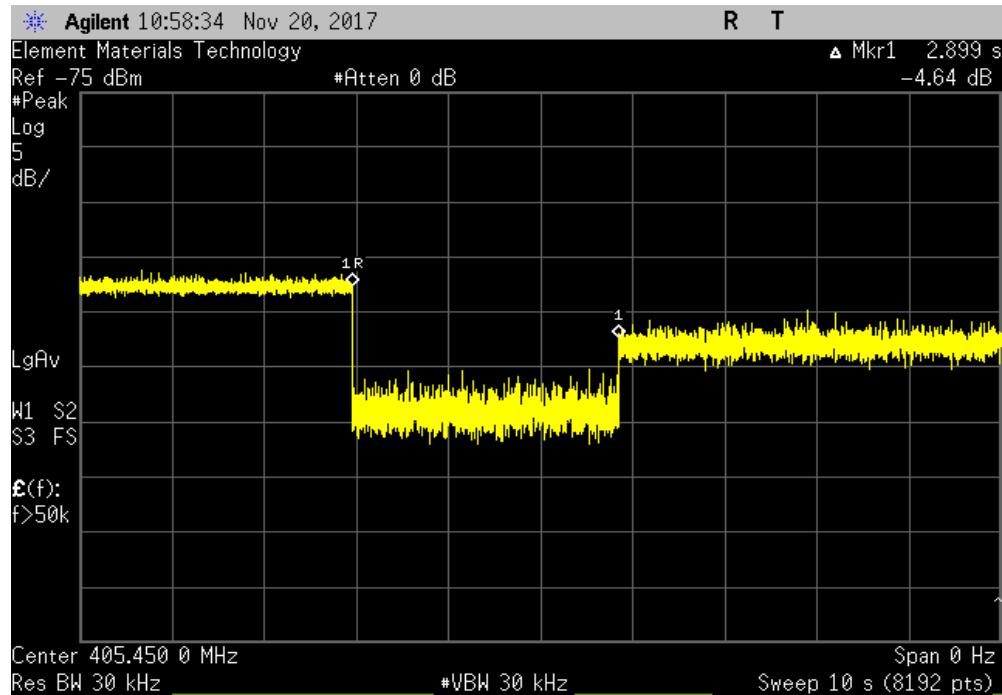


MONITORING SYSTEM SCAN CYCLE TIME

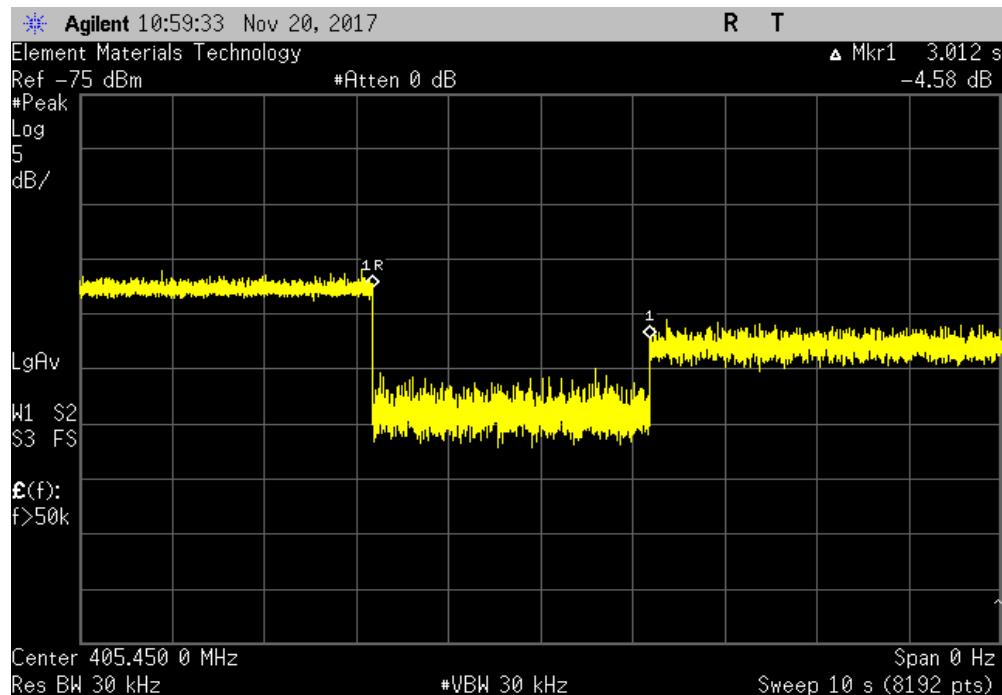


XMI 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 1			
	Value (Seconds)	Limit (Seconds)	Result
	2.899	≤ 5	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 2			
	Value (Seconds)	Limit (Seconds)	Result
	3.012	≤ 5	Pass

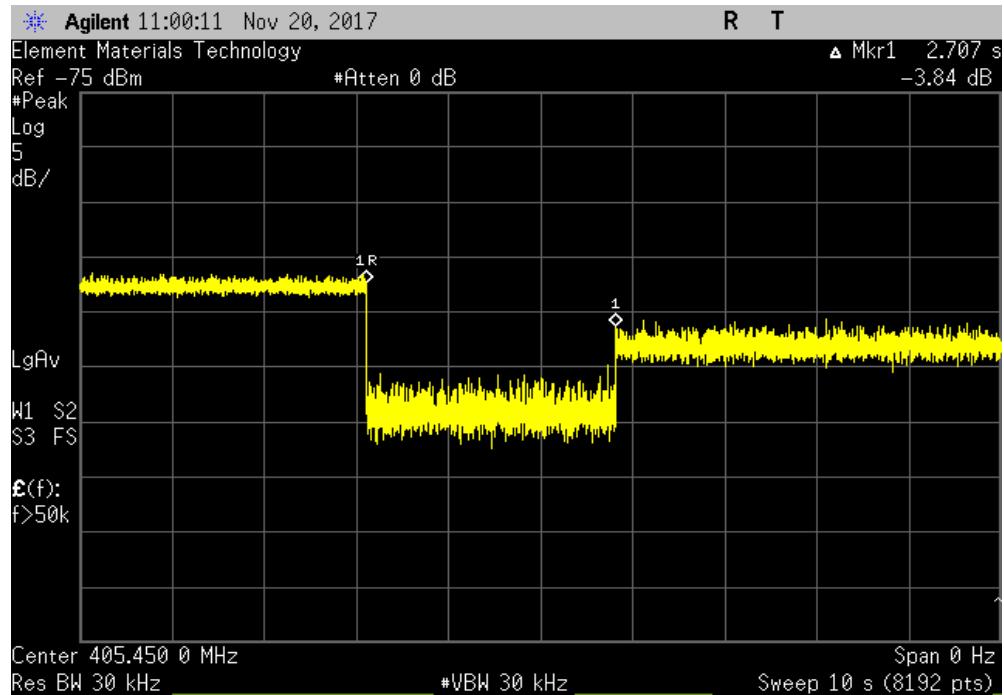


MONITORING SYSTEM SCAN CYCLE TIME

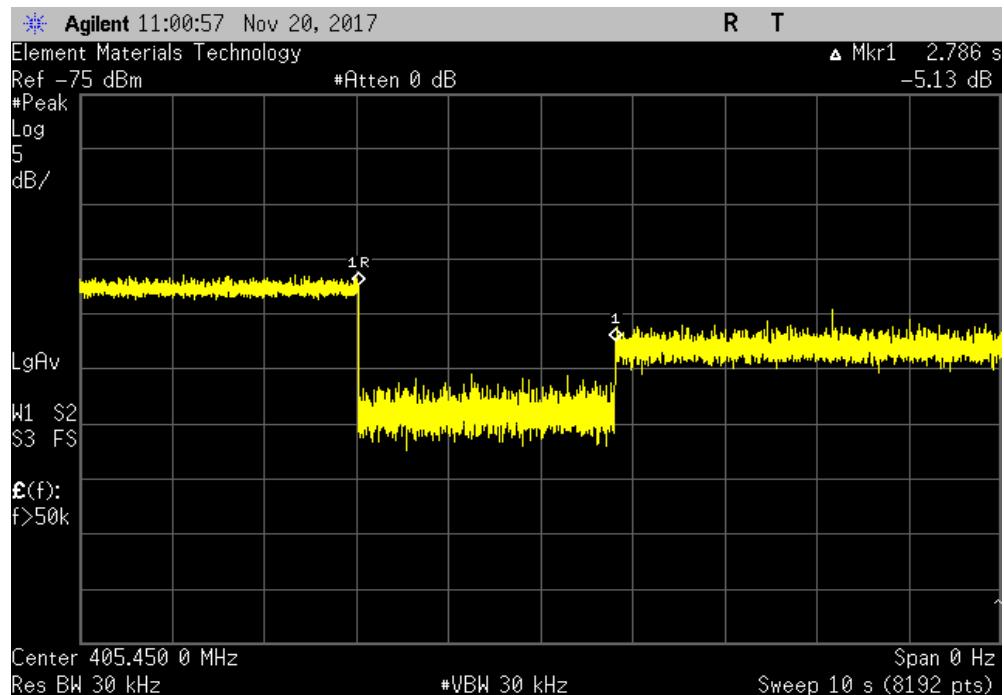


XMI 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 3			
	Value (Seconds)	Limit (Seconds)	Result
	2.707	≤ 5	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 4			
	Value (Seconds)	Limit (Seconds)	Result
	2.786	≤ 5	Pass

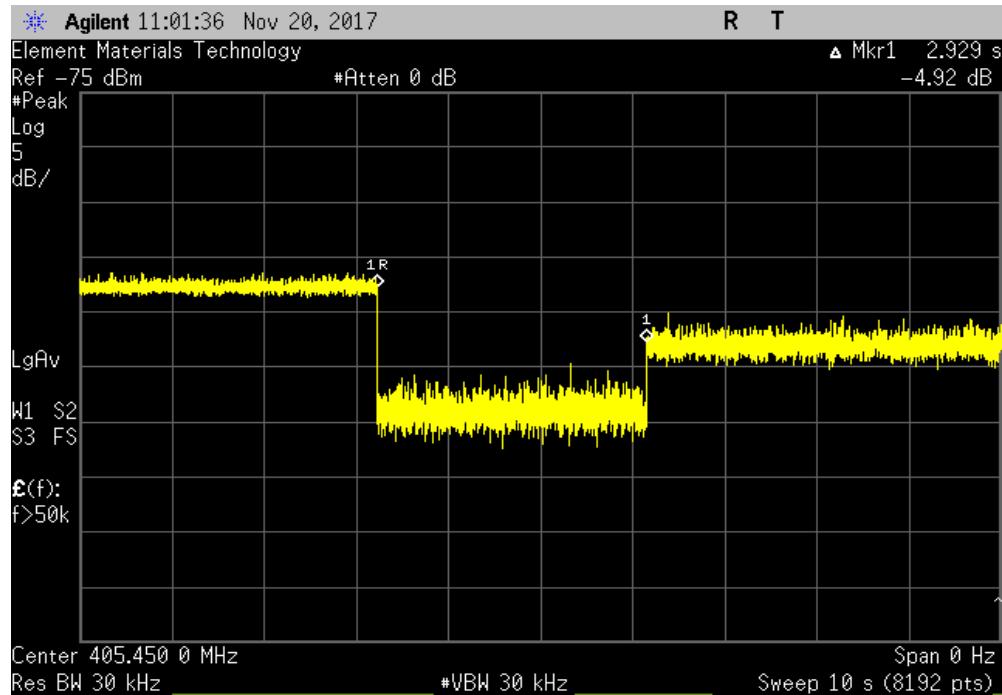


MONITORING SYSTEM SCAN CYCLE TIME

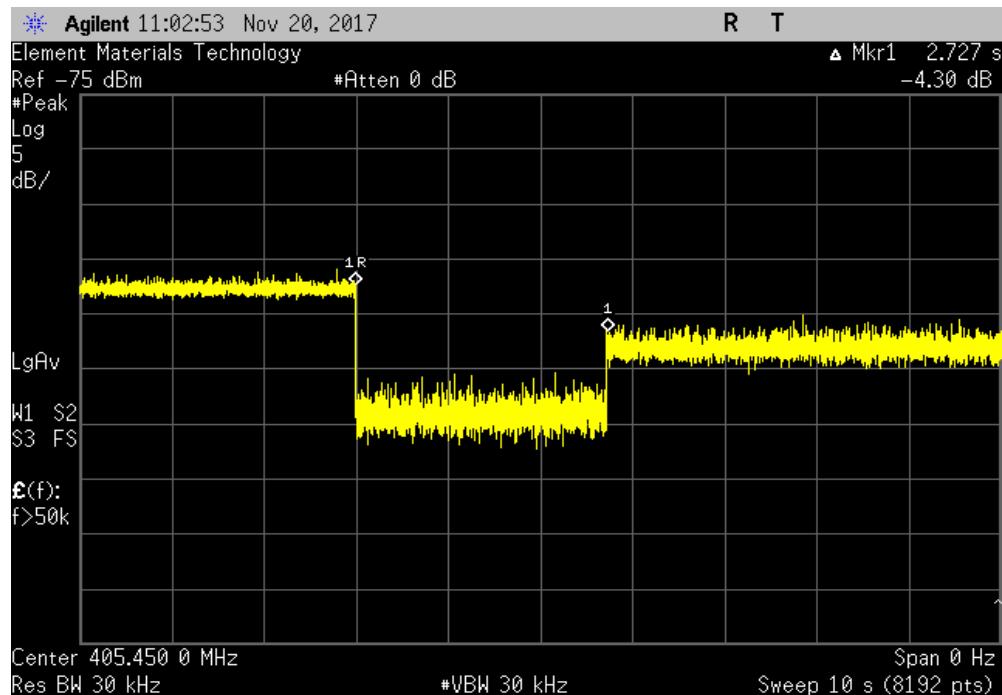


XMI 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 5			
	Value (Seconds)	Limit (Seconds)	Result
	2.929	≤ 5	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 6			
	Value (Seconds)	Limit (Seconds)	Result
	2.727	≤ 5	Pass

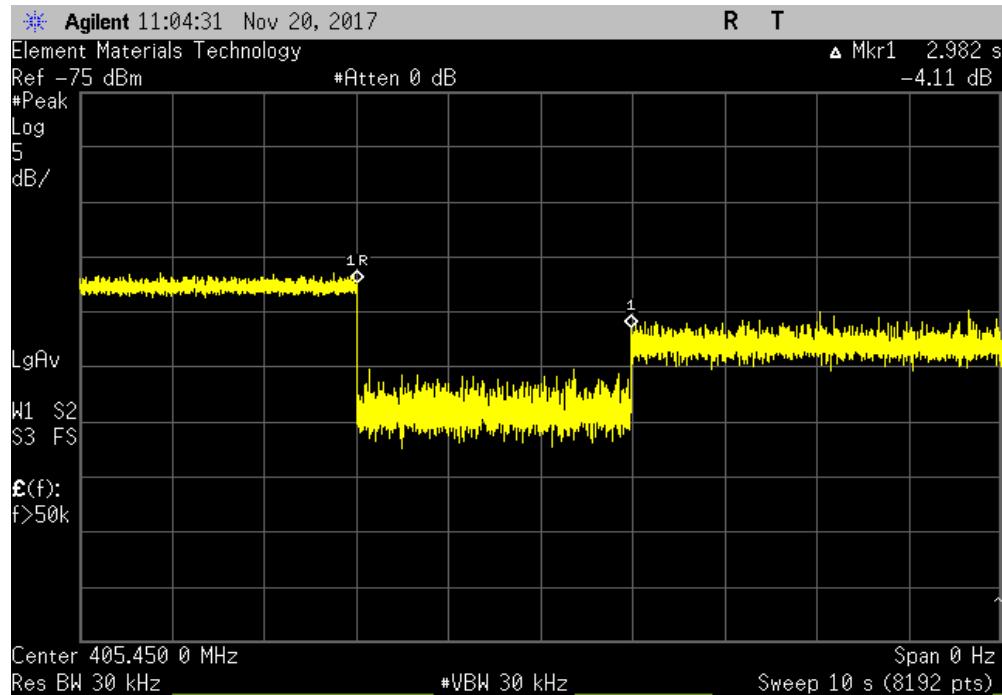


MONITORING SYSTEM SCAN CYCLE TIME

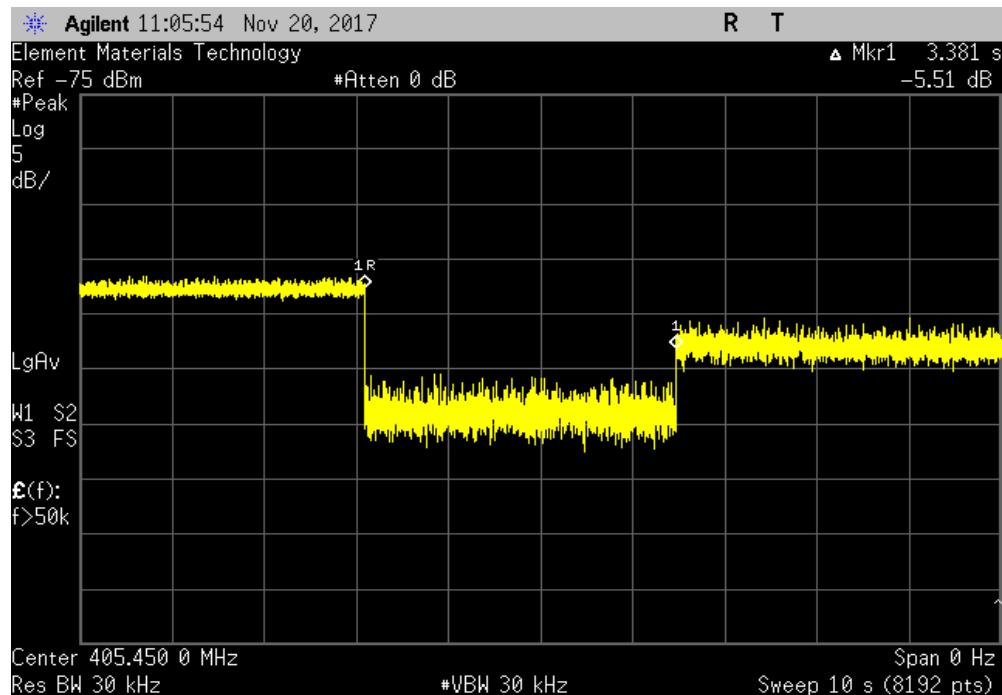


XMIT 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 7			
	Value (Seconds)	Limit (Seconds)	Result
	2.982	≤ 5	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 8			
	Value (Seconds)	Limit (Seconds)	Result
	3.381	≤ 5	Pass

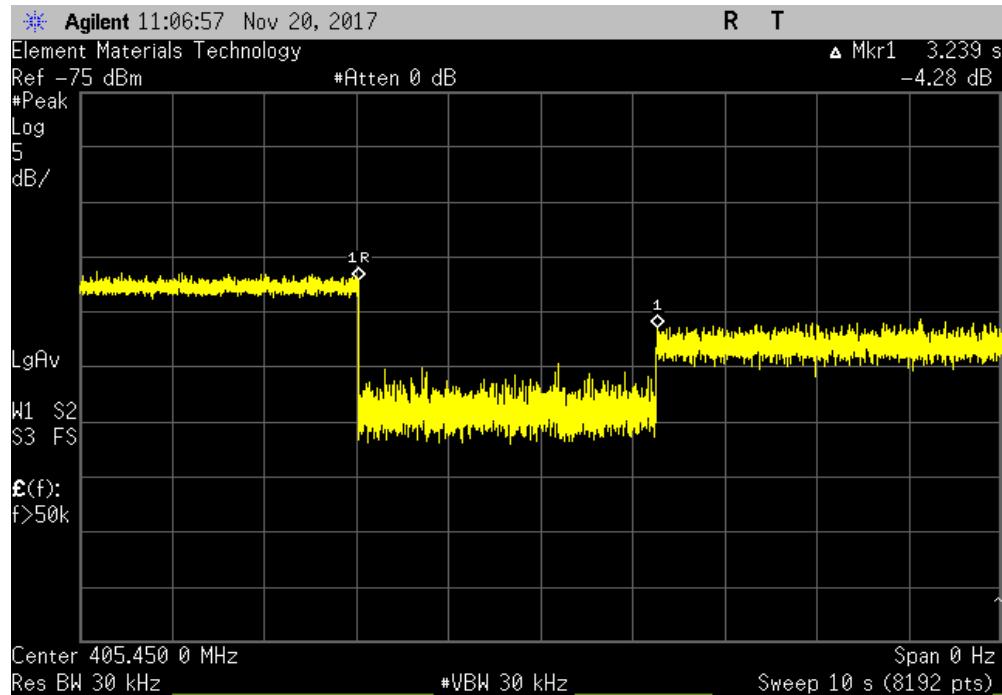


MONITORING SYSTEM SCAN CYCLE TIME

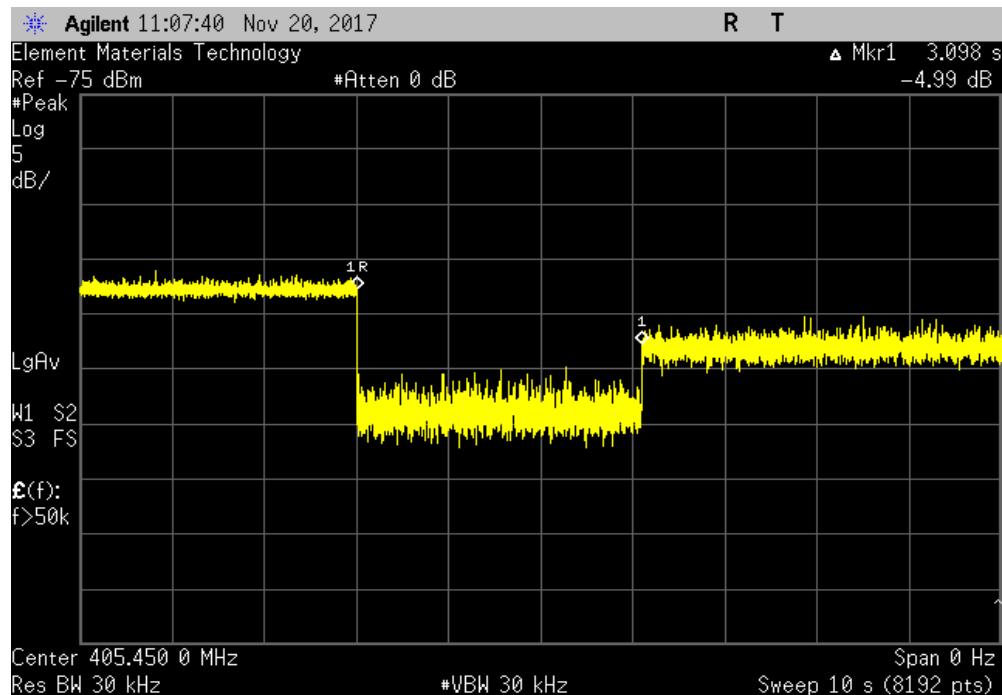


XMI 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 9			
	Value (Seconds)	Limit (Seconds)	Result
	3.239	≤ 5	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Scan Cycle Time, Sample 10			
	Value (Seconds)	Limit (Seconds)	Result
	3.098	≤ 5	Pass



MONITORING SYSTEM SCAN CYCLE TIME



XMit 2017.09.21

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

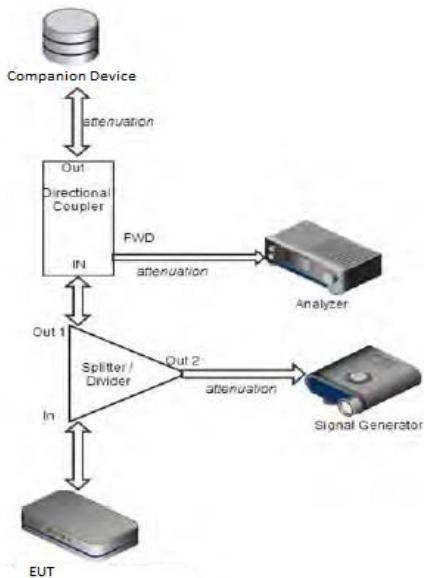
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The spectrum analyzer was set to zero span with a sweep time equal to 10 seconds.

The CW signal on the intended frequency (F_c) was removed. At the same time, the EUT was set to seek a session with the implantable device. The delay between F_c becoming available and the EUT establishing a session was measured.



MONITORING SYSTEM SCAN CYCLE TIME



XMI 2017.08.21

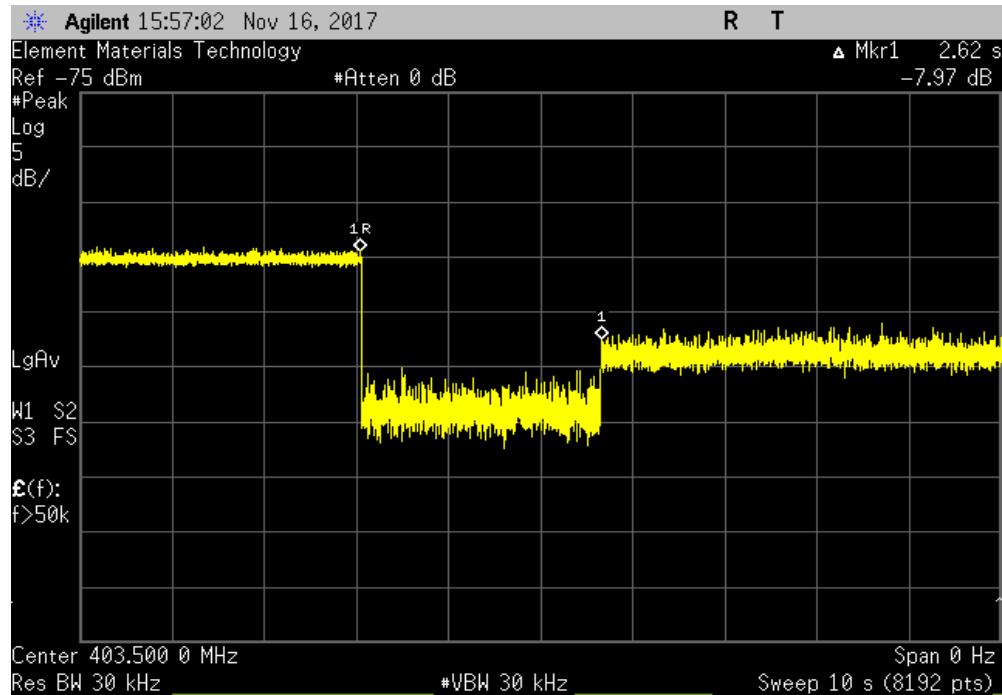
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097																																																							
Serial Number:	AC1C870003		Date:	20-Nov-17																																																							
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C																																																							
Attendees:	Franklin Portillo		Humidity:	45.7% RH																																																							
Project:	None		Barometric Pres.:	1018 mbar																																																							
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13																																																						
TEST SPECIFICATIONS		Test Method																																																									
EN 301 839 V2.1.1:2016		EN 301 839 V2.1.1:2016																																																									
COMMENTS																																																											
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.																																																											
DEVIATIONS FROM TEST STANDARD																																																											
None																																																											
Configuration #	30	Signature																																																									
Mid Channel (Fc), 403.5 MHz																																																											
<table border="1"> <thead> <tr> <th></th> <th></th> <th>Value (Seconds)</th> <th>Limit (Seconds)</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Scan Cycle Time, Sample 1</td> <td></td> <td>2.620</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 2</td> <td></td> <td>2.548</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 3</td> <td></td> <td>3.347</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 4</td> <td></td> <td>3.162</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 5</td> <td></td> <td>2.755</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 6</td> <td></td> <td>2.617</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 7</td> <td></td> <td>2.572</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 8</td> <td></td> <td>2.228</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 9</td> <td></td> <td>2.869</td> <td>≤ 5</td> <td>Pass</td> </tr> <tr> <td>Scan Cycle Time, Sample 10</td> <td></td> <td>2.380</td> <td>≤ 5</td> <td>Pass</td> </tr> </tbody> </table>							Value (Seconds)	Limit (Seconds)	Result	Scan Cycle Time, Sample 1		2.620	≤ 5	Pass	Scan Cycle Time, Sample 2		2.548	≤ 5	Pass	Scan Cycle Time, Sample 3		3.347	≤ 5	Pass	Scan Cycle Time, Sample 4		3.162	≤ 5	Pass	Scan Cycle Time, Sample 5		2.755	≤ 5	Pass	Scan Cycle Time, Sample 6		2.617	≤ 5	Pass	Scan Cycle Time, Sample 7		2.572	≤ 5	Pass	Scan Cycle Time, Sample 8		2.228	≤ 5	Pass	Scan Cycle Time, Sample 9		2.869	≤ 5	Pass	Scan Cycle Time, Sample 10		2.380	≤ 5	Pass
		Value (Seconds)	Limit (Seconds)	Result																																																							
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Scan Cycle Time, Sample 8		2.228	≤ 5	Pass																																																							
Scan Cycle Time, Sample 9		2.869	≤ 5	Pass																																																							
Scan Cycle Time, Sample 10		2.380	≤ 5	Pass																																																							

MONITORING SYSTEM SCAN CYCLE TIME

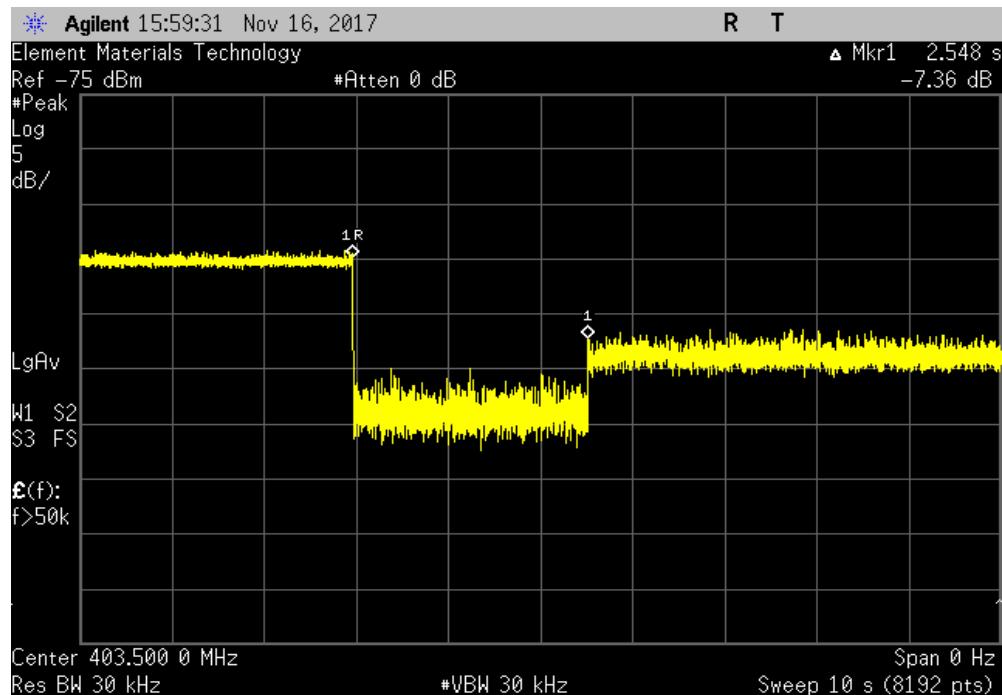


XMI 2017.09.21

Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 1			
	Value (Seconds)	Limit (Seconds)	Result
	2.620	≤ 5	Pass



Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 2			
	Value (Seconds)	Limit (Seconds)	Result
	2.548	≤ 5	Pass



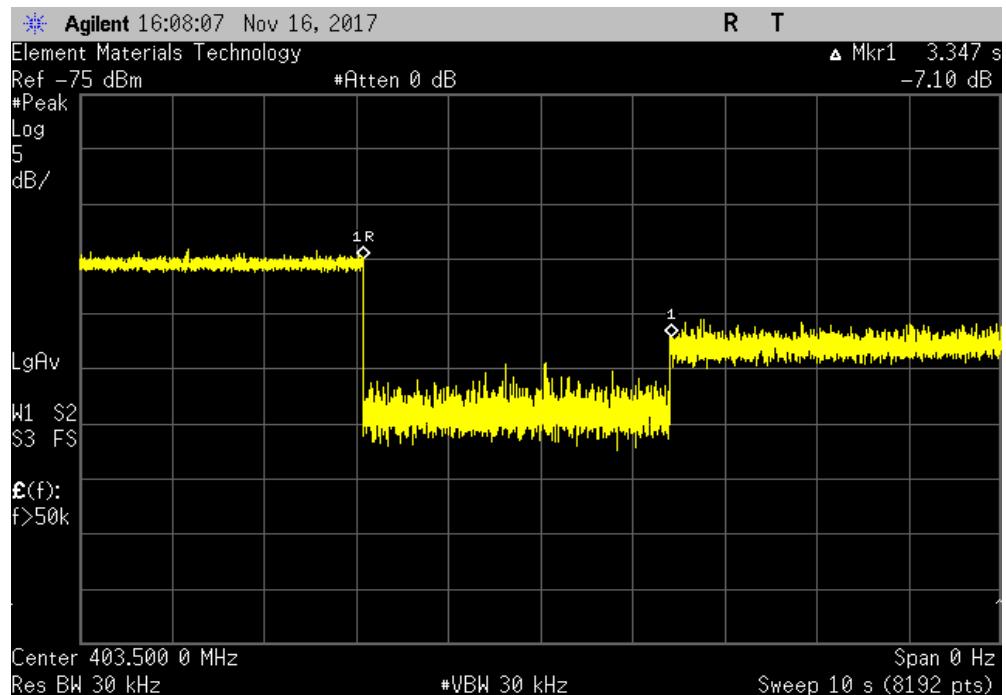
MONITORING SYSTEM SCAN CYCLE TIME



XMI 2017.09.21

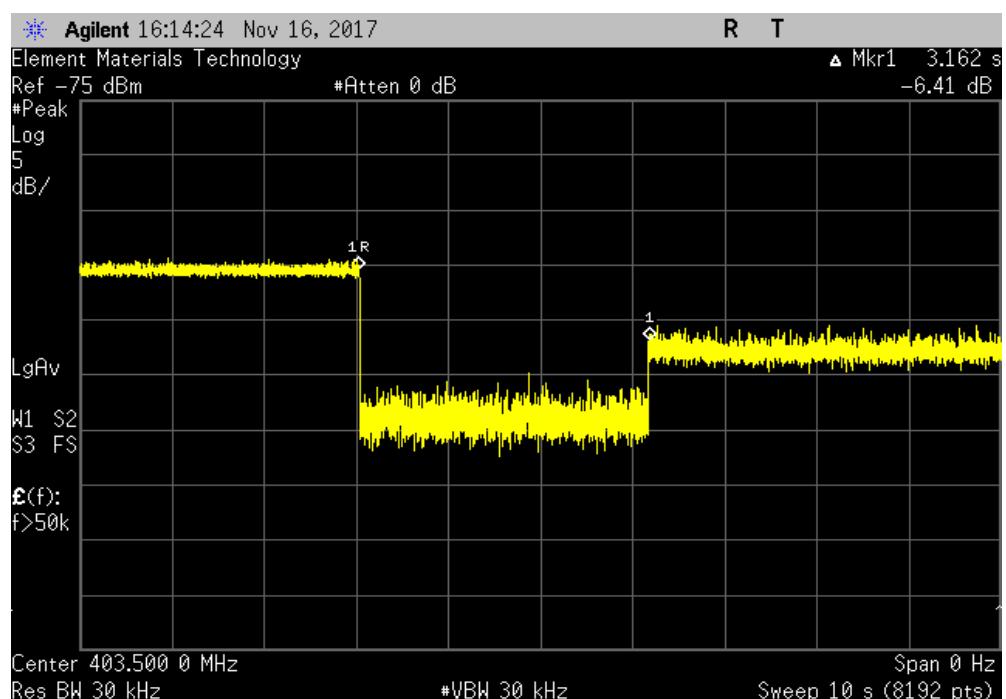
Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 3

Value (Seconds)	Limit (Seconds)	Result
3.347	≤ 5	Pass



Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 4

Value (Seconds)	Limit (Seconds)	Result
3.162	≤ 5	Pass

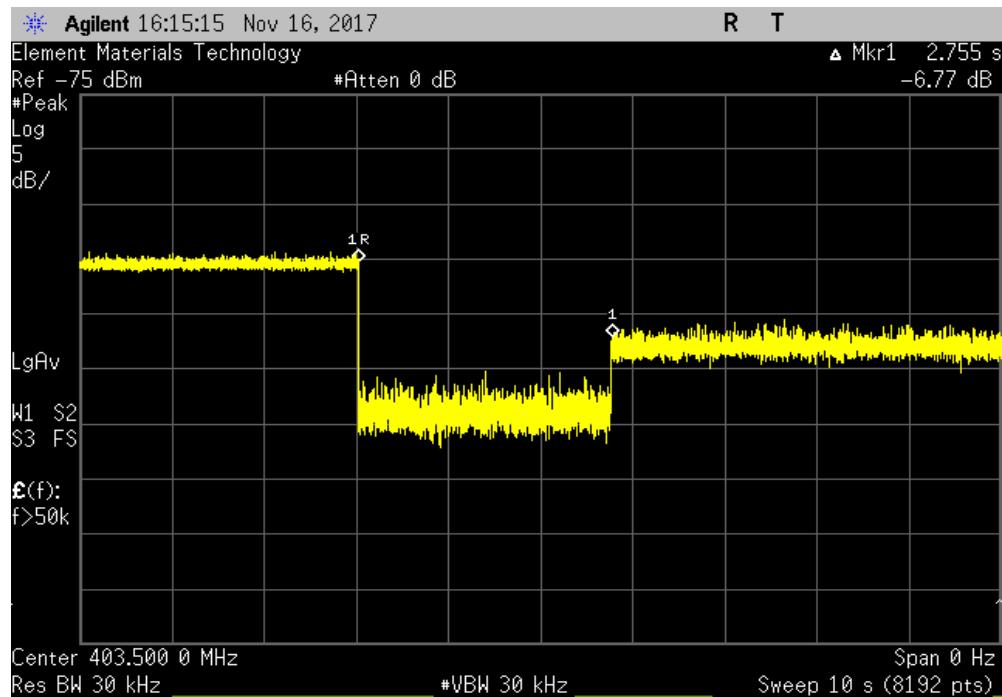


MONITORING SYSTEM SCAN CYCLE TIME

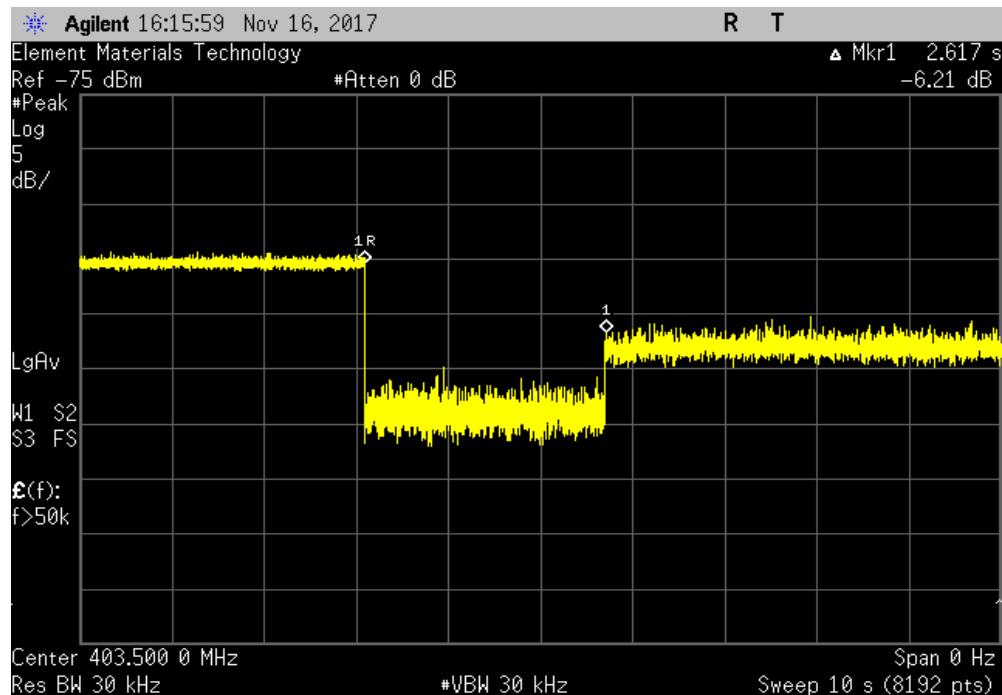


XMI 2017.09.21

Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 5			
	Value (Seconds)	Limit (Seconds)	Result
	2.755	≤ 5	Pass



Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 6			
	Value (Seconds)	Limit (Seconds)	Result
	2.617	≤ 5	Pass



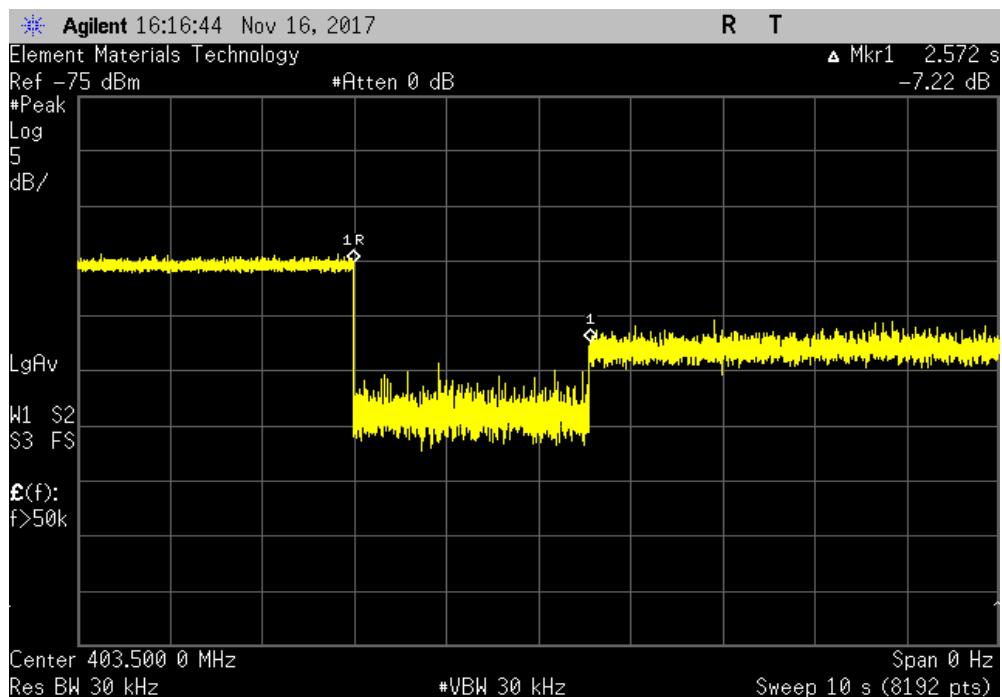
MONITORING SYSTEM SCAN CYCLE TIME



XMI 2017.09.21

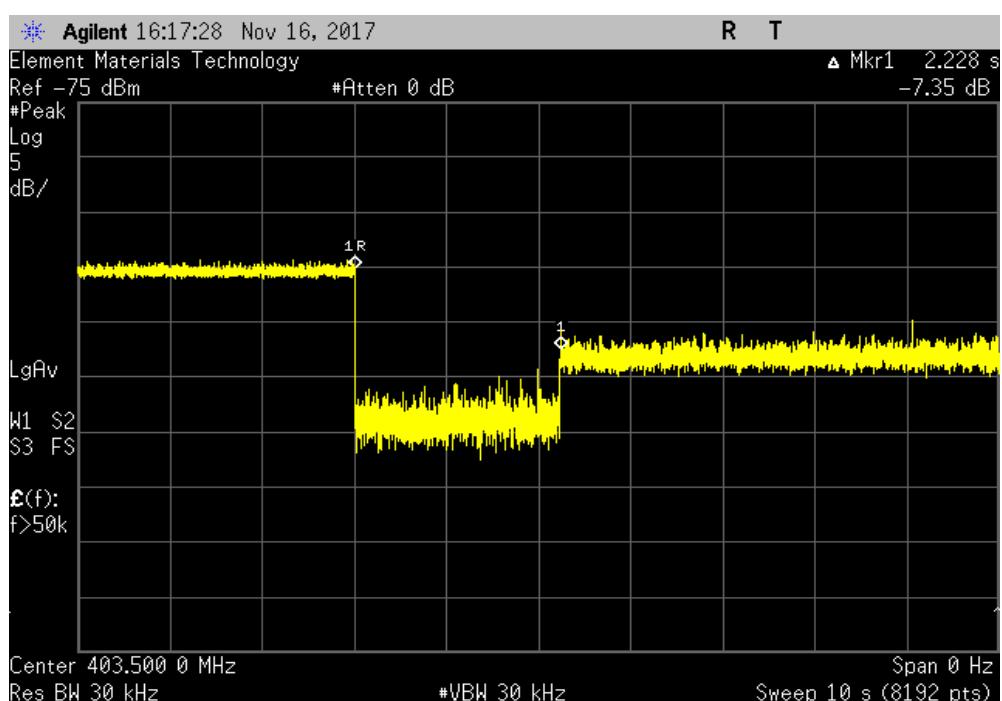
Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 7

Value (Seconds)	Limit (Seconds)	Result
2.572	≤ 5	Pass



Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 8

Value (Seconds)	Limit (Seconds)	Result
2.228	≤ 5	Pass

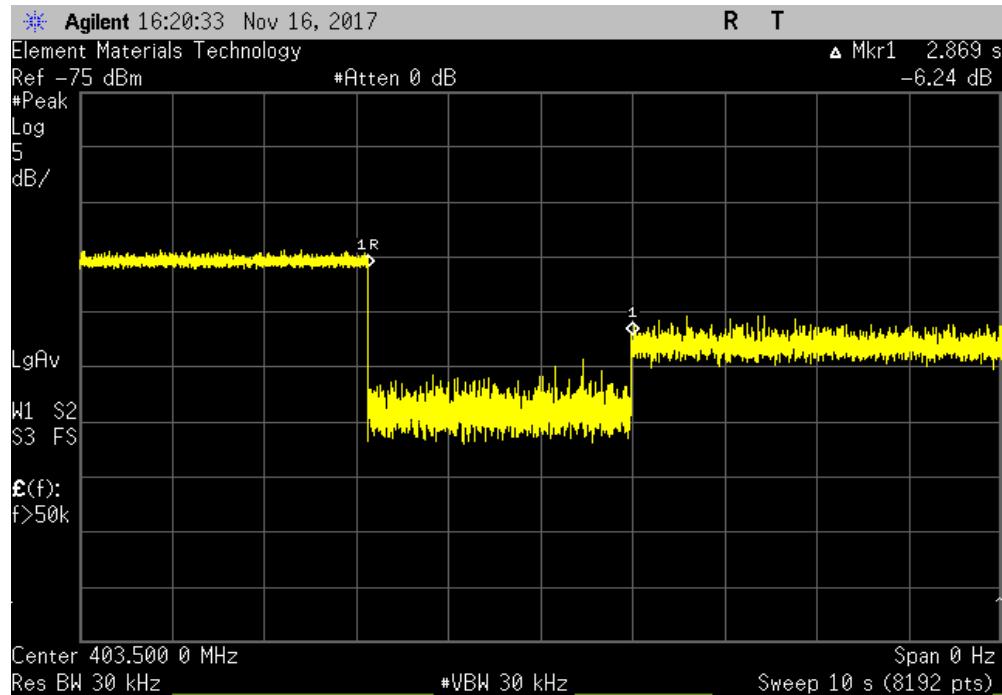


MONITORING SYSTEM SCAN CYCLE TIME

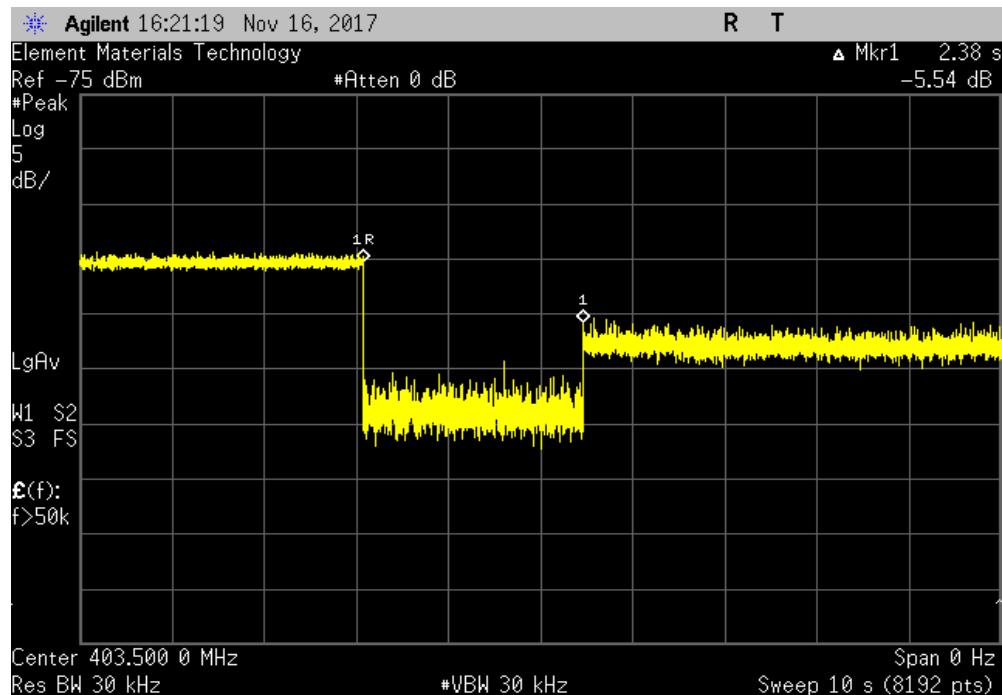


XMI 2017.09.21

Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 9			
	Value (Seconds)	Limit (Seconds)	Result
	2.869	≤ 5	Pass



Mid Channel (Fc), 403.5 MHz, Scan Cycle Time, Sample 10			
	Value (Seconds)	Limit (Seconds)	Result
	2.380	≤ 5	Pass



MINIMUM CHANNEL MONITORING PERIOD



XMit 2017.09.21

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

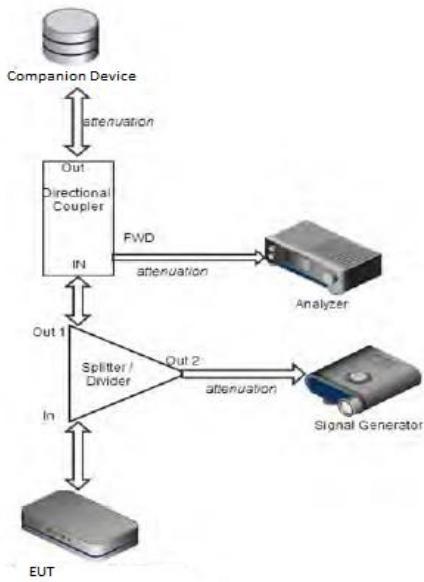
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band, except one channel (F_c) was left available. The multitone operation (out of operation region) was also set to Pulse modulation with a Period of 10 mS, and a Pulse Width of 0.3 mS. The spectrum analyzer was set to measure the transmit bands of 401-402 and 405-406 MHz.

The EUT was set to seek a session with the implantable device. The EUT was verified to connect on the available channel with multiple screen captures.



MINIMUM CHANNEL MONITORING PERIOD



XMIT 2017.08.21

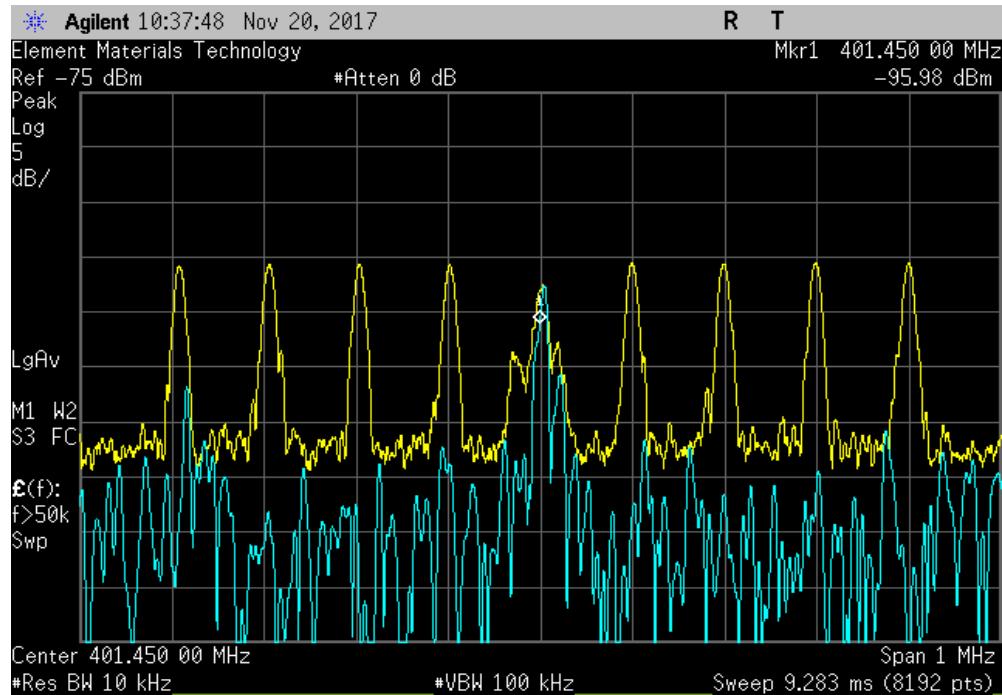
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097																																									
Serial Number:	AC1C870003		Date:	20-Nov-17																																									
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C																																									
Attendees:	Franklin Portillo		Humidity:	45.7% RH																																									
Project:	None		Barometric Pres.:	1018 mbar																																									
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13																																								
TEST SPECIFICATIONS			Test Method																																										
EN 302 537 V2.1.1:2016			EN 302 537 V2.1.1:2016																																										
COMMENTS																																													
<p>Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm.</p> <p>Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.</p>																																													
DEVIATIONS FROM TEST STANDARD																																													
None																																													
Configuration #	30	Signature	Does EUT Initiate Communications on Fc? (Y/N) Result																																										
401-402 MHz Band																																													
<table border="0"> <tr> <td>Mid Channel (Fc), 401.55 MHz</td> <td>Monitoring Period Sample 1</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 2</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 3</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 4</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 5</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 6</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 7</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 8</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 9</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 10</td> <td>Yes</td> <td>Pass</td> </tr> </table>						Mid Channel (Fc), 401.55 MHz	Monitoring Period Sample 1	Yes	Pass		Monitoring Period Sample 2	Yes	Pass		Monitoring Period Sample 3	Yes	Pass		Monitoring Period Sample 4	Yes	Pass		Monitoring Period Sample 5	Yes	Pass		Monitoring Period Sample 6	Yes	Pass		Monitoring Period Sample 7	Yes	Pass		Monitoring Period Sample 8	Yes	Pass		Monitoring Period Sample 9	Yes	Pass		Monitoring Period Sample 10	Yes	Pass
Mid Channel (Fc), 401.55 MHz	Monitoring Period Sample 1	Yes	Pass																																										
	Monitoring Period Sample 2	Yes	Pass																																										
	Monitoring Period Sample 3	Yes	Pass																																										
	Monitoring Period Sample 4	Yes	Pass																																										
	Monitoring Period Sample 5	Yes	Pass																																										
	Monitoring Period Sample 6	Yes	Pass																																										
	Monitoring Period Sample 7	Yes	Pass																																										
	Monitoring Period Sample 8	Yes	Pass																																										
	Monitoring Period Sample 9	Yes	Pass																																										
	Monitoring Period Sample 10	Yes	Pass																																										
405-406 MHz Band																																													
<table border="0"> <tr> <td>Mid Channel (Fc), 405.55 MHz</td> <td>Monitoring Period Sample 1</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 2</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 3</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 4</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 5</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 6</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 7</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 8</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 9</td> <td>Yes</td> <td>Pass</td> </tr> <tr> <td></td> <td>Monitoring Period Sample 10</td> <td>Yes</td> <td>Pass</td> </tr> </table>						Mid Channel (Fc), 405.55 MHz	Monitoring Period Sample 1	Yes	Pass		Monitoring Period Sample 2	Yes	Pass		Monitoring Period Sample 3	Yes	Pass		Monitoring Period Sample 4	Yes	Pass		Monitoring Period Sample 5	Yes	Pass		Monitoring Period Sample 6	Yes	Pass		Monitoring Period Sample 7	Yes	Pass		Monitoring Period Sample 8	Yes	Pass		Monitoring Period Sample 9	Yes	Pass		Monitoring Period Sample 10	Yes	Pass
Mid Channel (Fc), 405.55 MHz	Monitoring Period Sample 1	Yes	Pass																																										
	Monitoring Period Sample 2	Yes	Pass																																										
	Monitoring Period Sample 3	Yes	Pass																																										
	Monitoring Period Sample 4	Yes	Pass																																										
	Monitoring Period Sample 5	Yes	Pass																																										
	Monitoring Period Sample 6	Yes	Pass																																										
	Monitoring Period Sample 7	Yes	Pass																																										
	Monitoring Period Sample 8	Yes	Pass																																										
	Monitoring Period Sample 9	Yes	Pass																																										
	Monitoring Period Sample 10	Yes	Pass																																										

MINIMUM CHANNEL MONITORING PERIOD

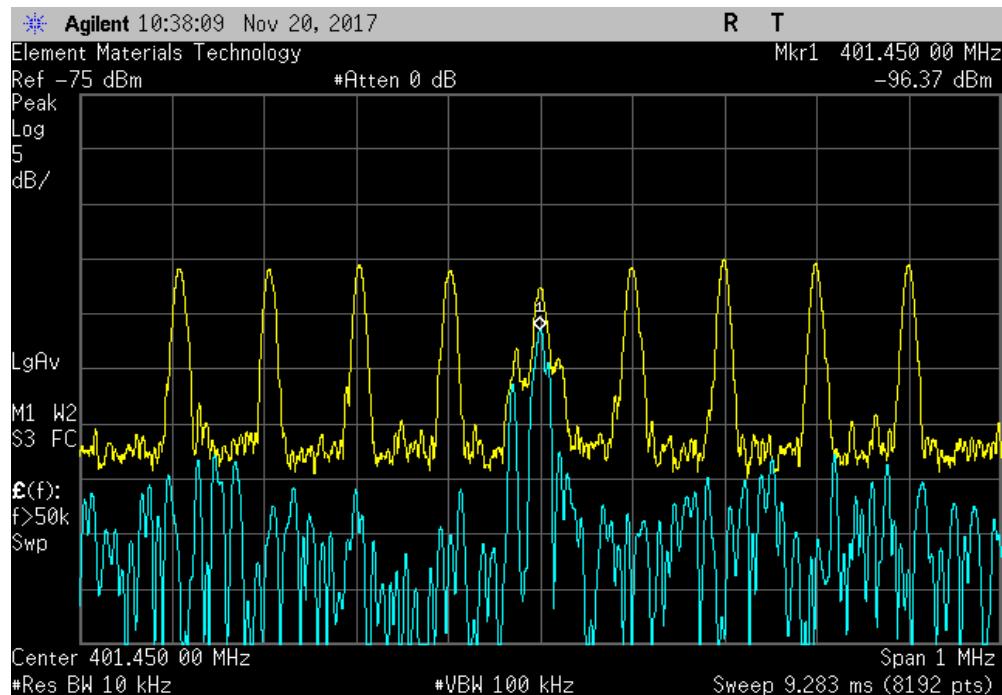


XMIT 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 1		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 2		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

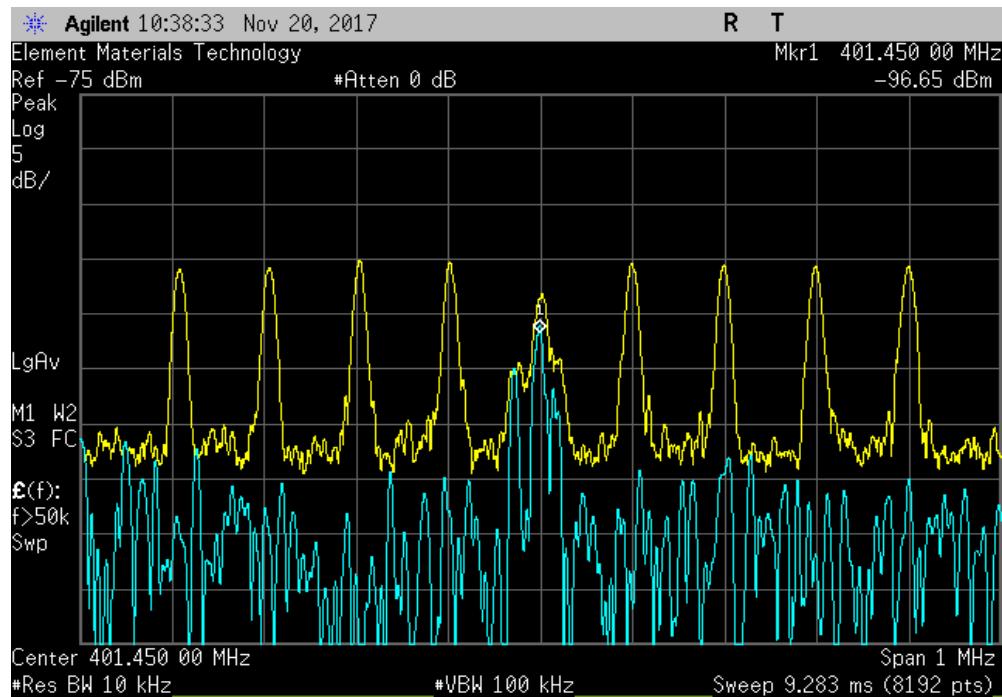


MINIMUM CHANNEL MONITORING PERIOD

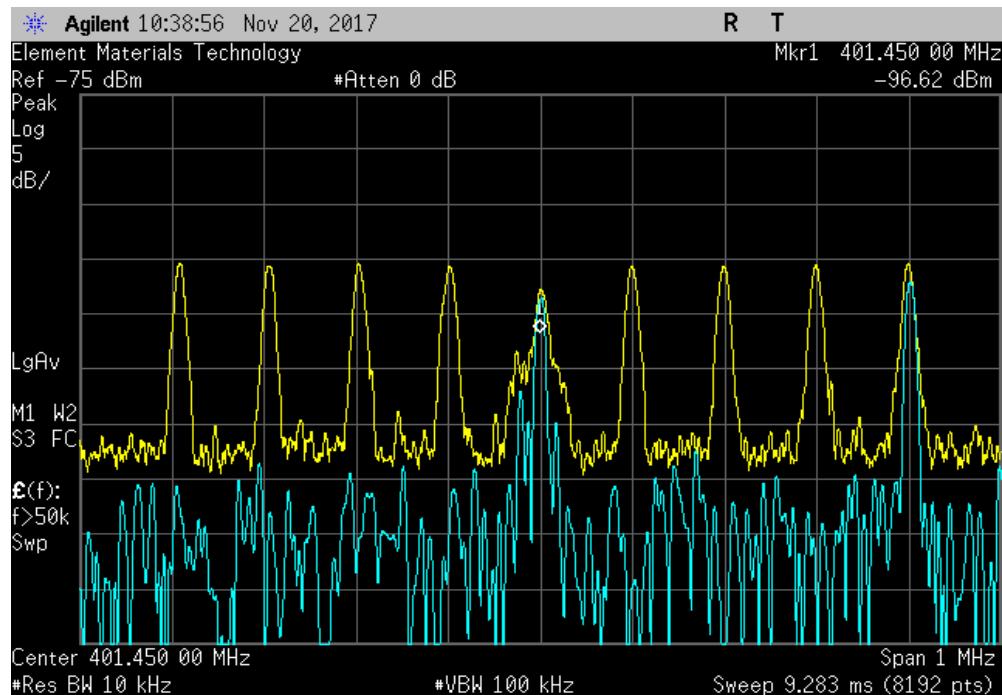


XMIT 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 3		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 4		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

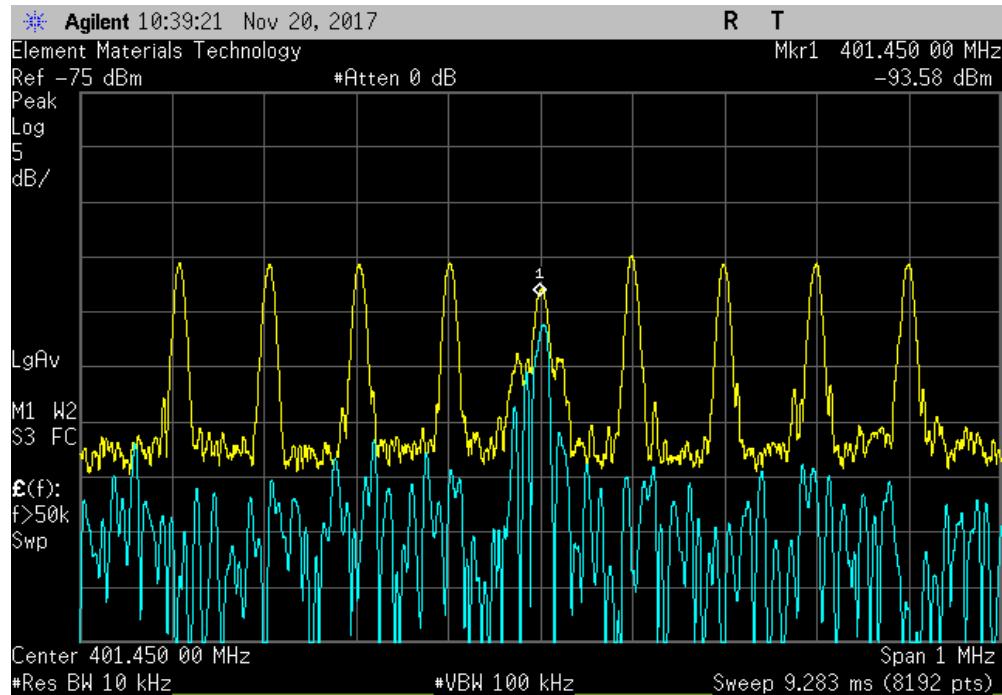


MINIMUM CHANNEL MONITORING PERIOD

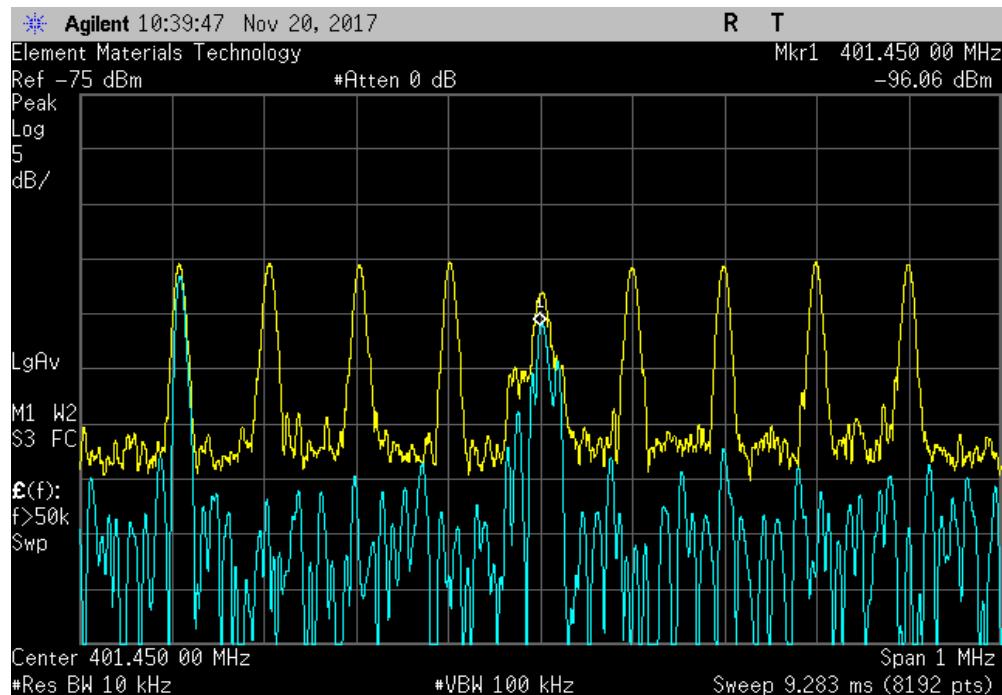


XMIT 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 5		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 6		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

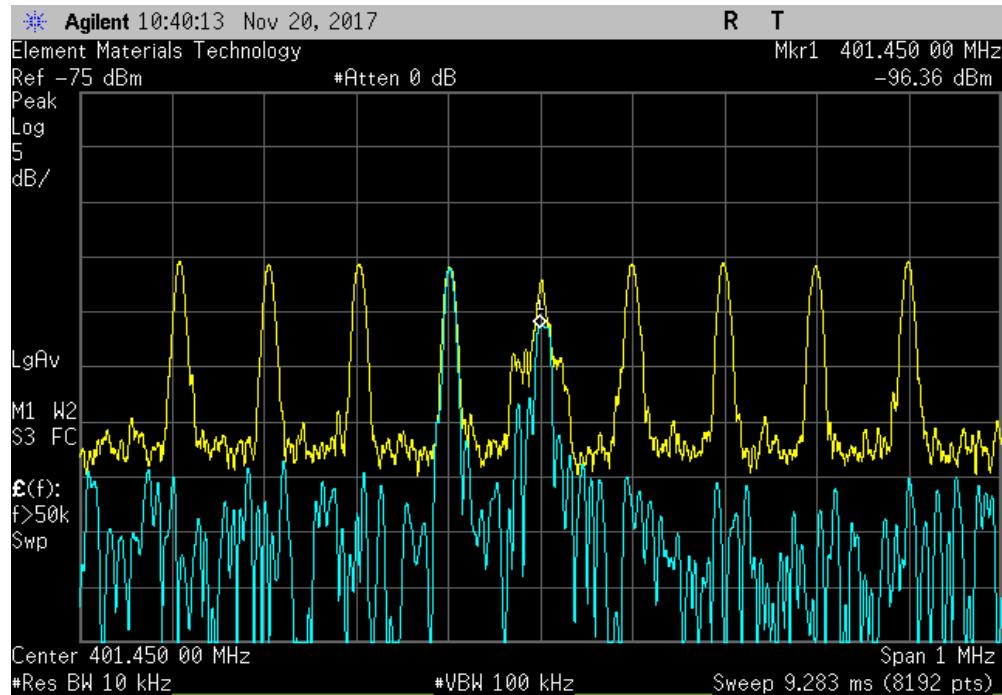


MINIMUM CHANNEL MONITORING PERIOD

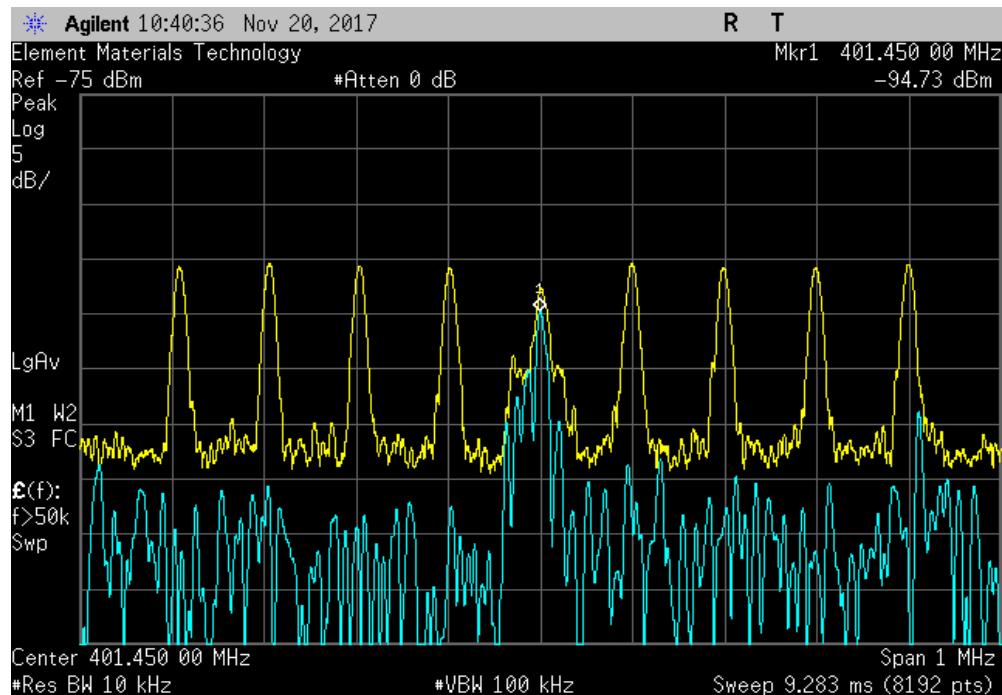


XMIT 2017.09.21

401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 7		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 8		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

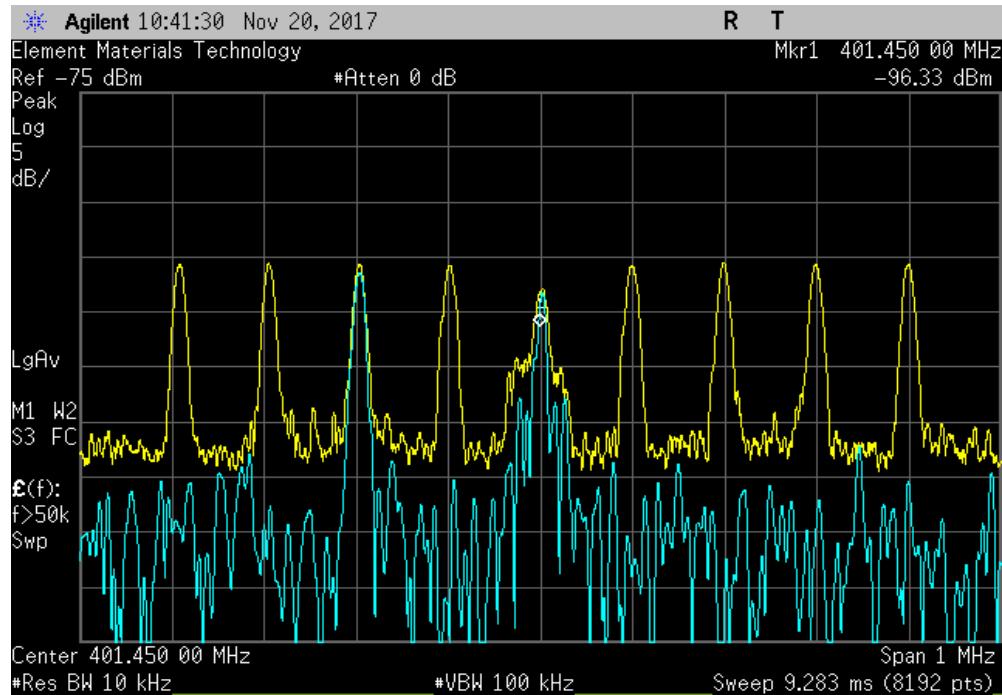


MINIMUM CHANNEL MONITORING PERIOD

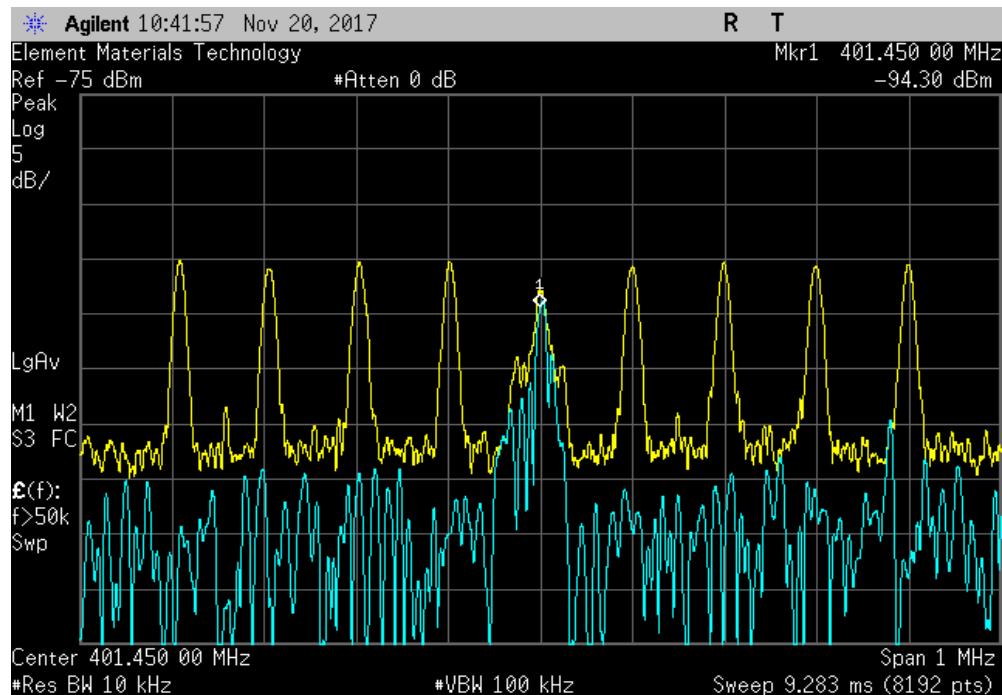


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 9		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Monitoring Period Sample 10		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

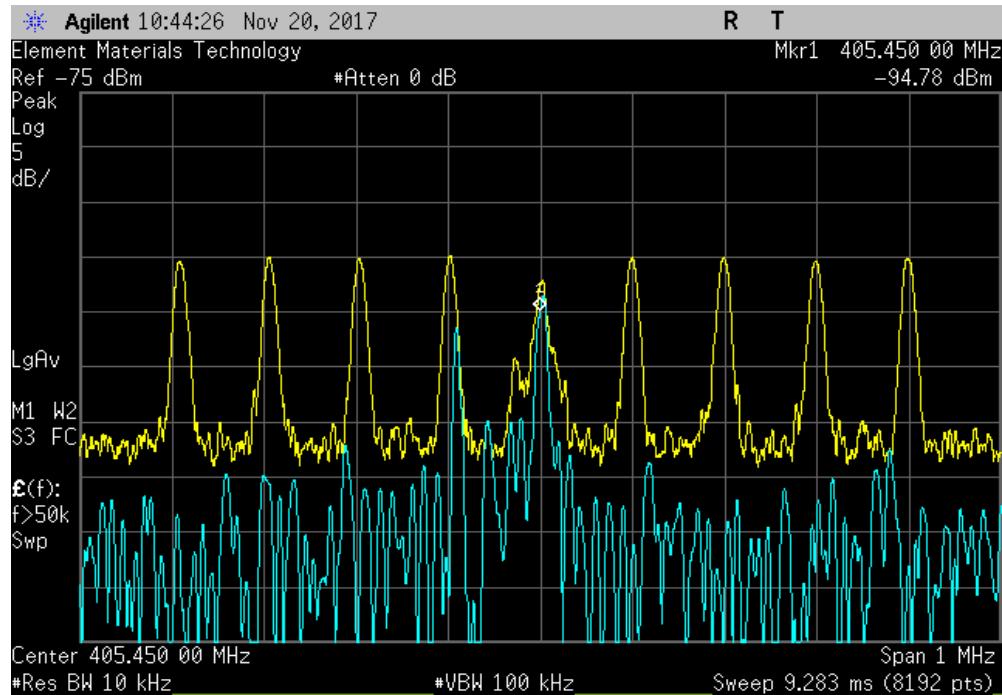


MINIMUM CHANNEL MONITORING PERIOD

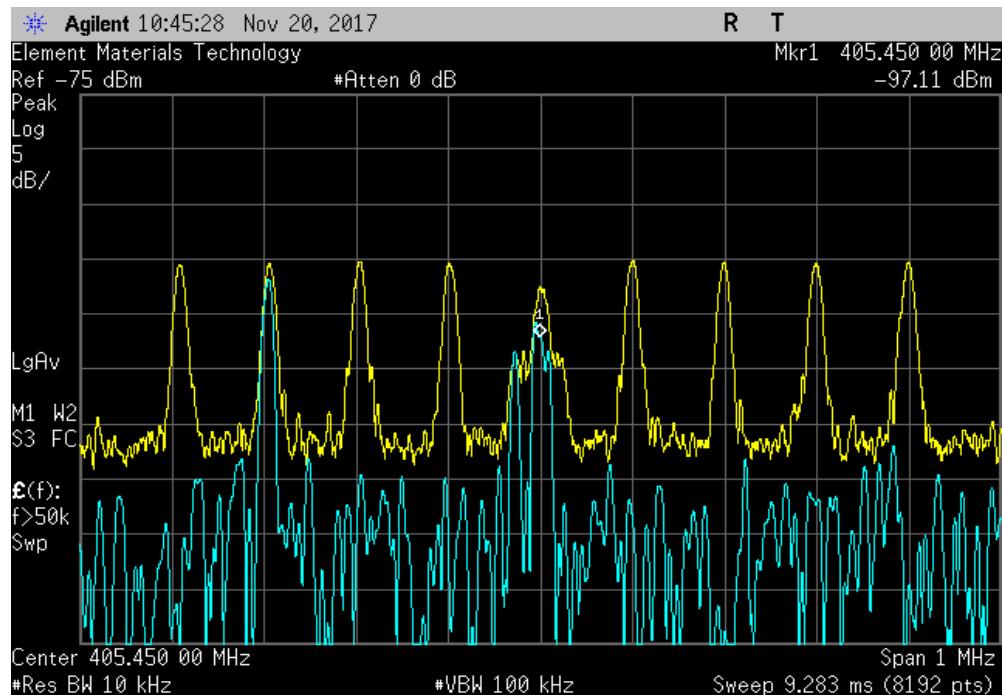


XMT 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 1		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 2		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

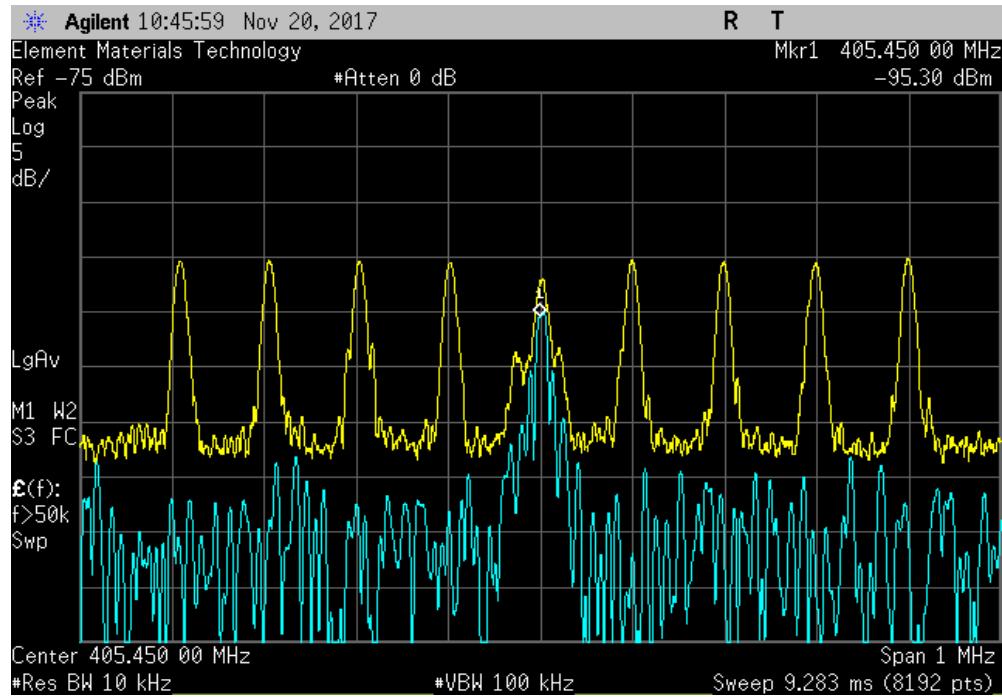


MINIMUM CHANNEL MONITORING PERIOD

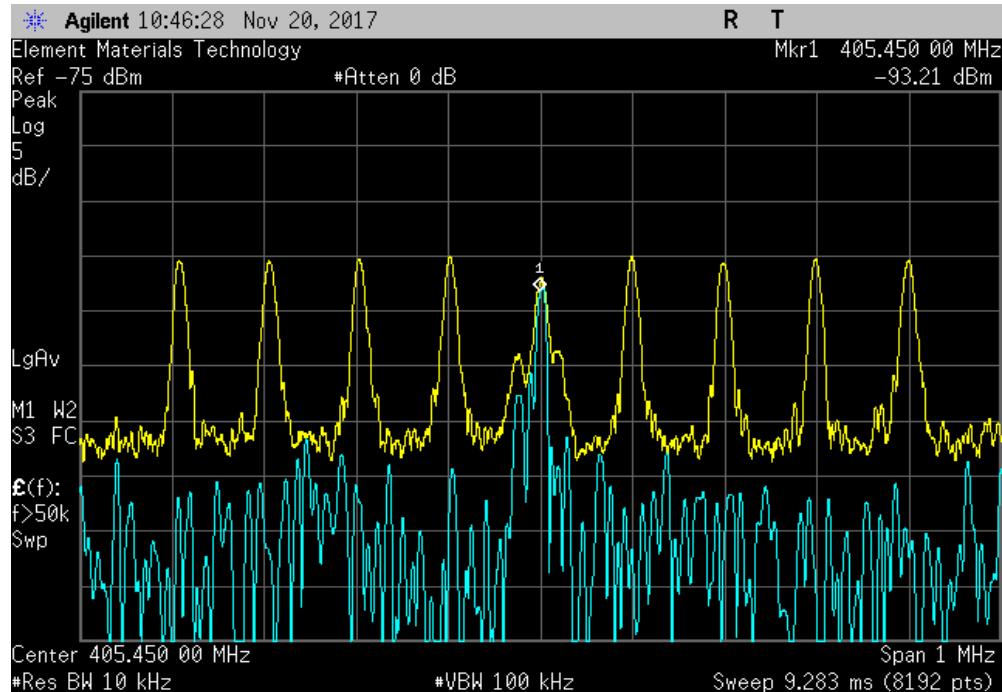


XMT 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 3		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 4		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	

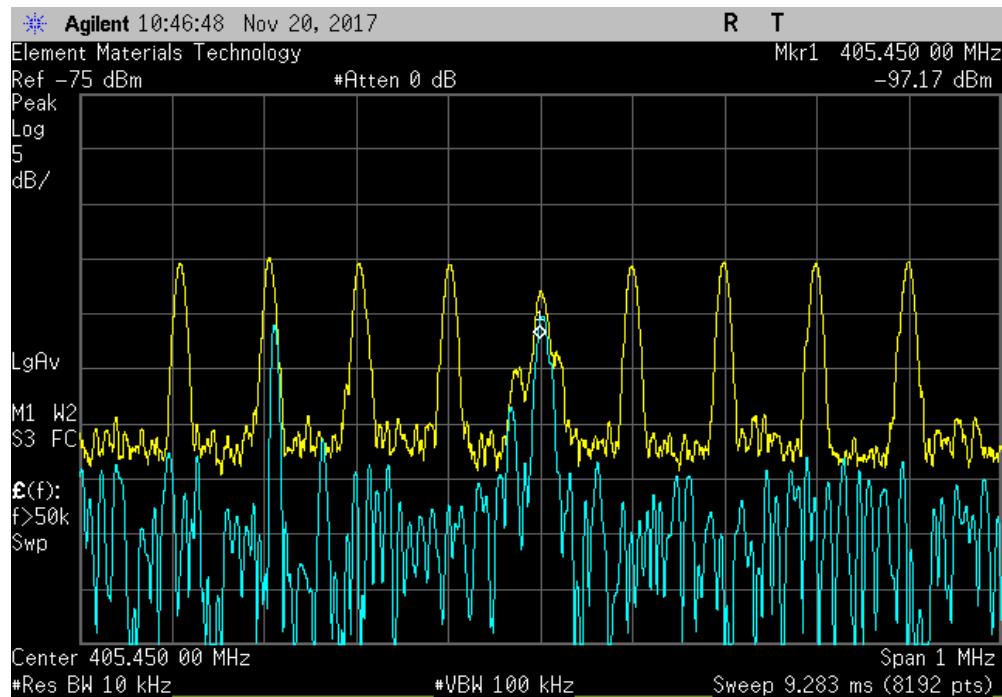


MINIMUM CHANNEL MONITORING PERIOD

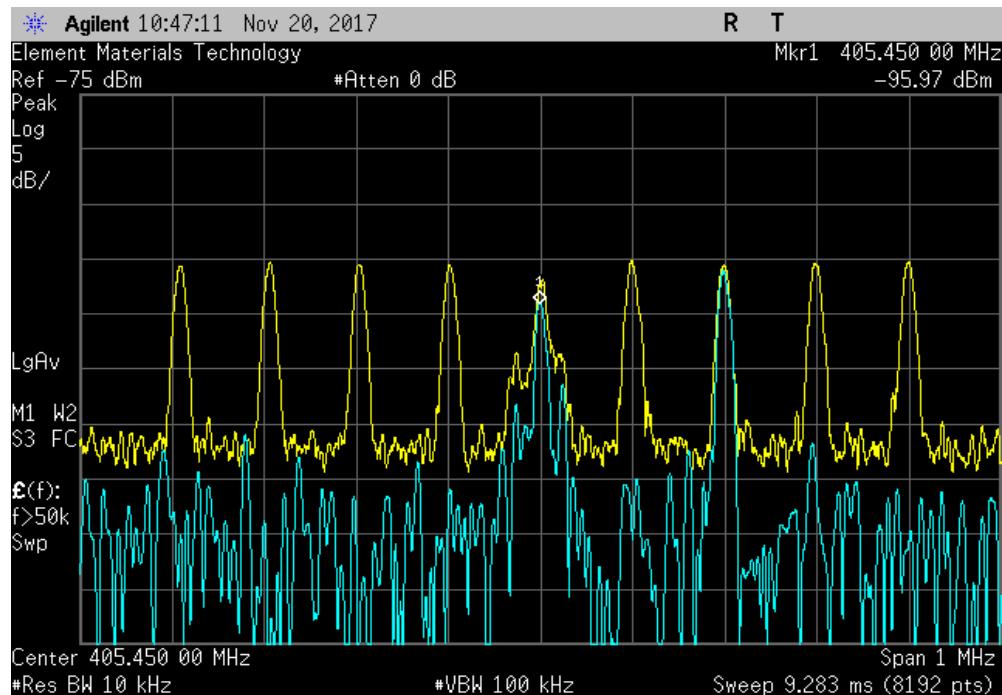


XMT 2017.09.21

405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 5		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 6		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass

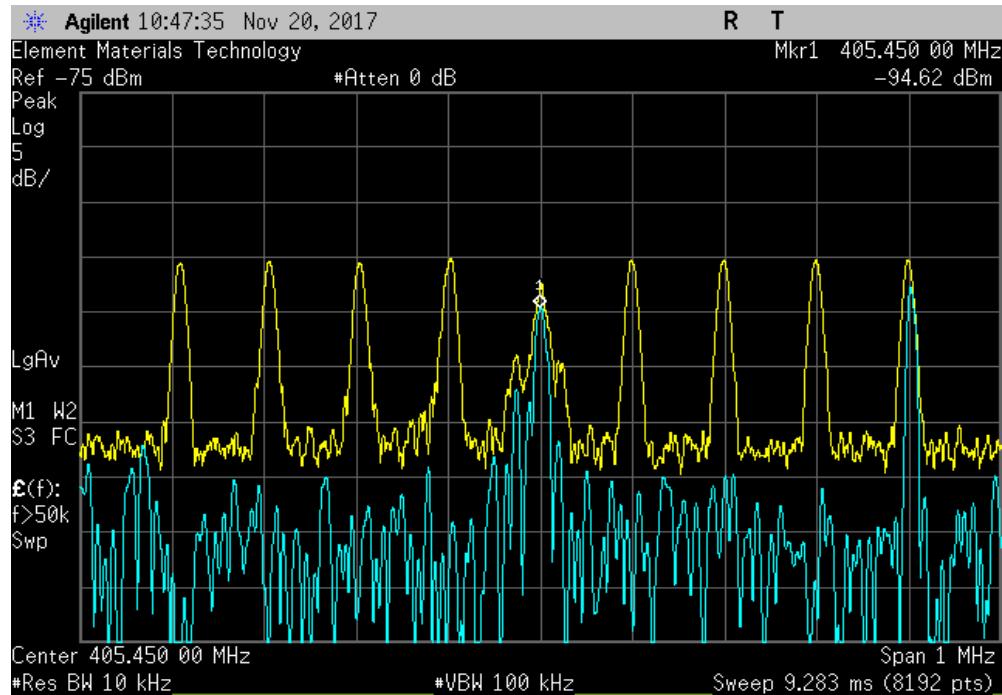


MINIMUM CHANNEL MONITORING PERIOD

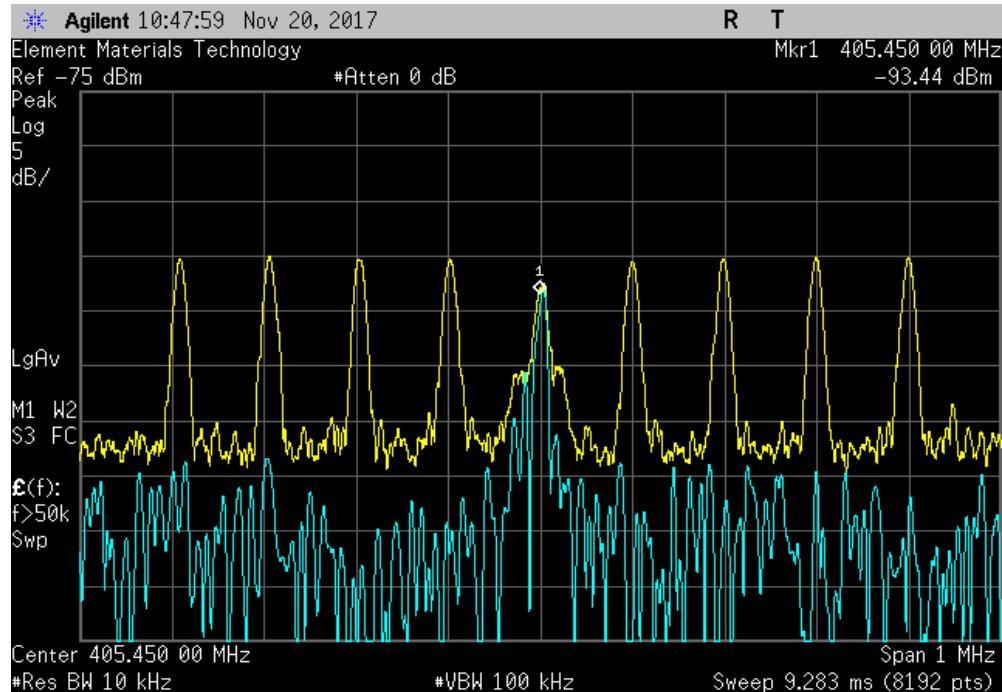


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405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 7		
Does EUT Initiate Communications on Fc? (Y/N)		Result
	Yes	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 8		
Does EUT Initiate Communications on Fc? (Y/N)		Result
	Yes	Pass

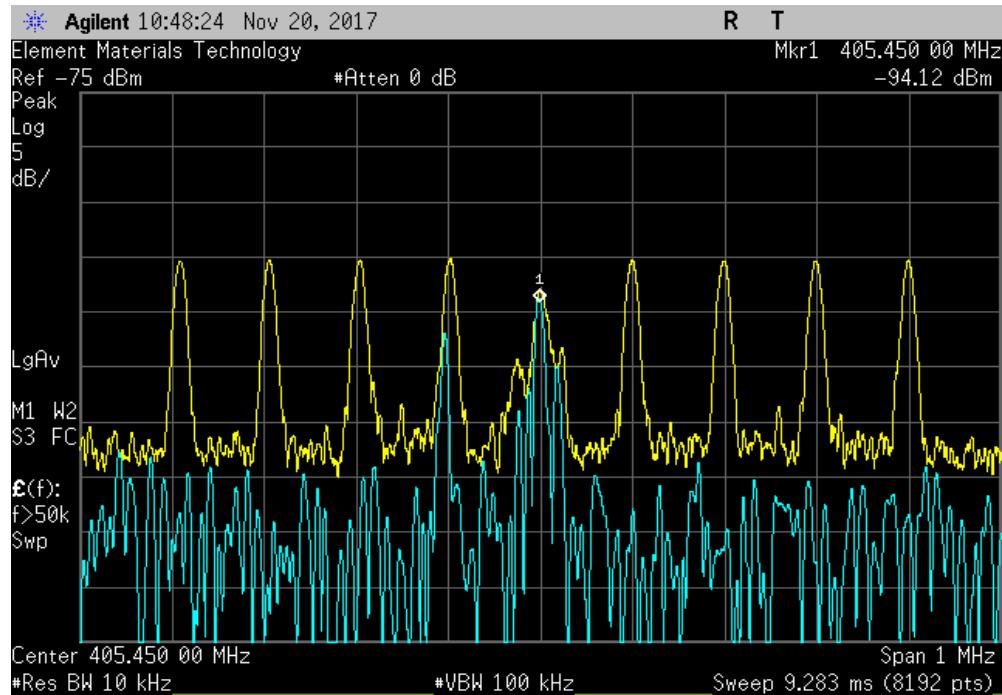


MINIMUM CHANNEL MONITORING PERIOD

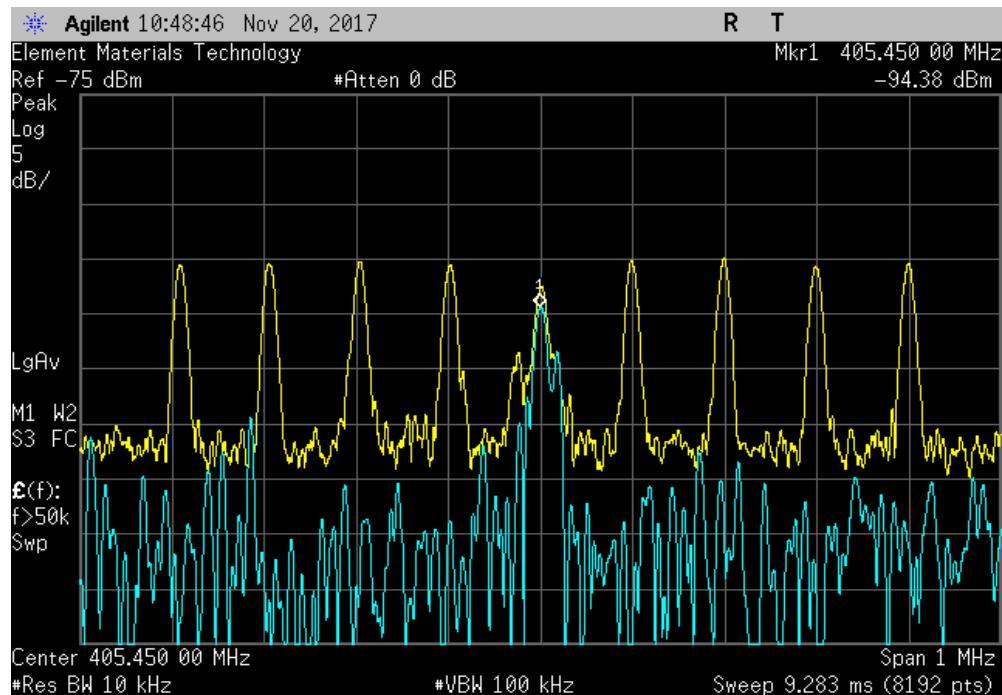


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405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 9		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Monitoring Period Sample 10		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes	Pass	



MINIMUM CHANNEL MONITORING PERIOD



XMit 2017.09.21

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

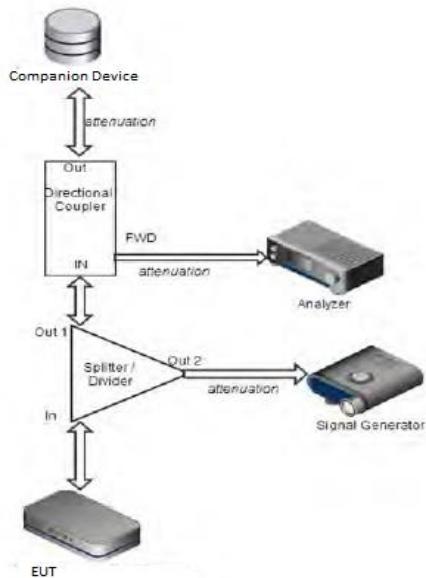
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band, except one channel (F_c) was left available. The multitone operation (out of operation region) was also set to Pulse modulation with a Period of 10 mS, and a Pulse Width of 0.1 mS.

The EUT was set to seek a session with the implantable device. The spectrum analyzer was set to measure the transmit band of 402-405 MHz and verify that the EUT was communicating on the available channel (F_c).



MINIMUM CHANNEL MONITORING PERIOD



XMIT 2017.08.21

EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097	
Serial Number:	AC1C870003		Date:	20-Nov-17	
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C	
Attendees:	Franklin Portillo		Humidity:	45.7% RH	
Project:	None		Barometric Pres.:	1018 mbar	
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13
TEST SPECIFICATIONS			Test Method		
EN 301 839 V2.1.1:2016			EN 301 839 V2.1.1:2016		
COMMENTS					
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	30	Signature	Does EUT Initiate Communications on Fc? (Y/N) Result		

Mid Channel (Fc), 403.5 MHz

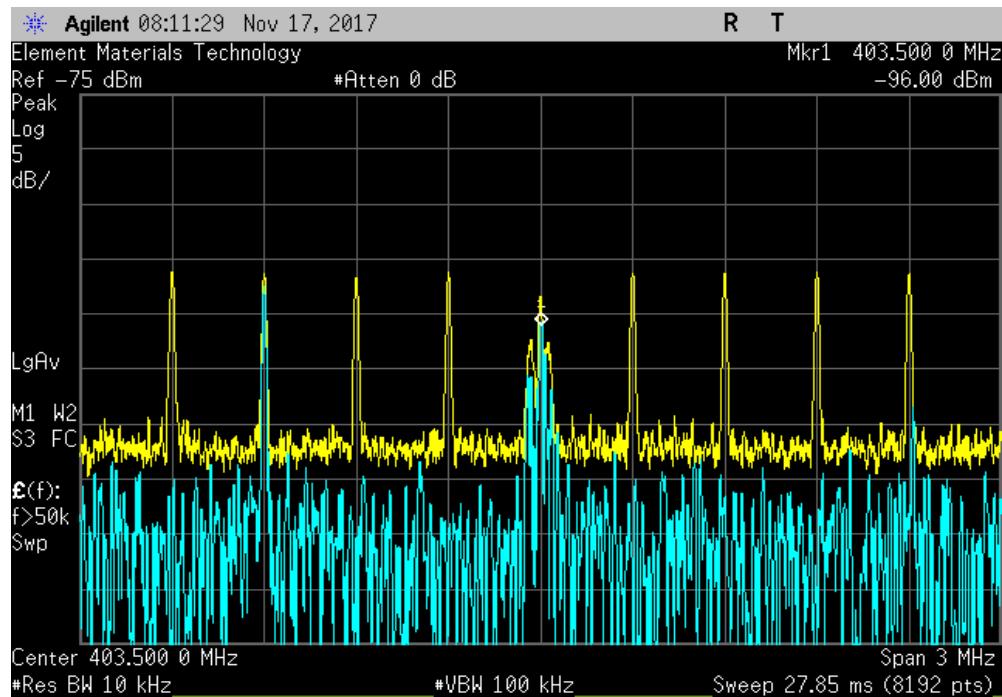
Monitoring Period Sample 1	Yes	Pass
Monitoring Period Sample 2	Yes	Pass
Monitoring Period Sample 3	Yes	Pass
Monitoring Period Sample 4	Yes	Pass
Monitoring Period Sample 5	Yes	Pass
Monitoring Period Sample 6	Yes	Pass
Monitoring Period Sample 7	Yes	Pass
Monitoring Period Sample 8	Yes	Pass
Monitoring Period Sample 9	Yes	Pass
Monitoring Period Sample 10	Yes	Pass

MINIMUM CHANNEL MONITORING PERIOD

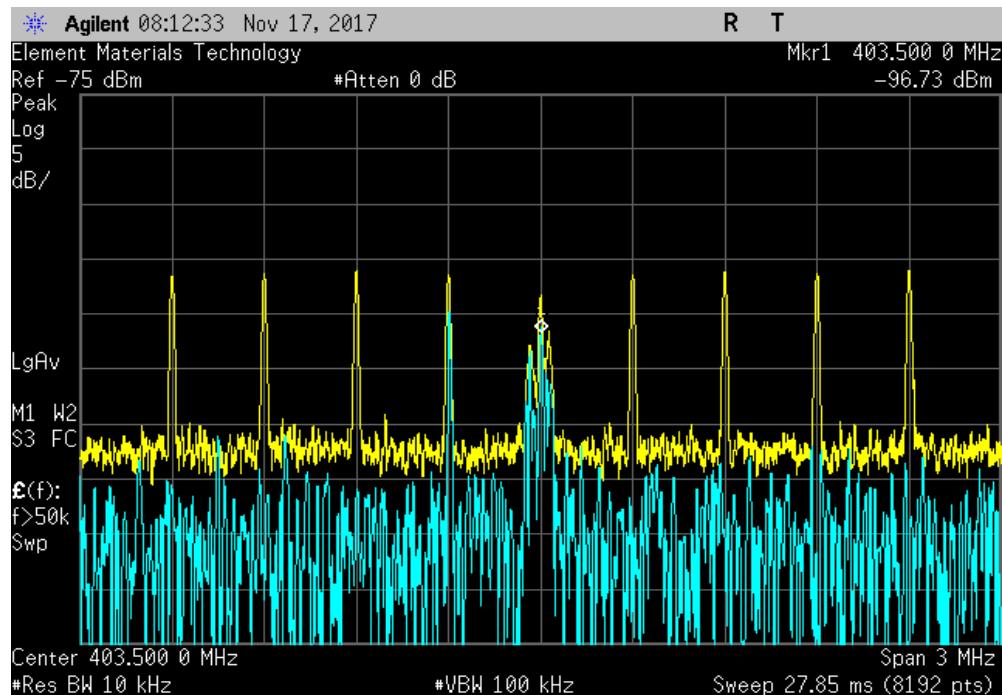


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Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 1		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 2		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



MINIMUM CHANNEL MONITORING PERIOD



XMIT 2017.09.21

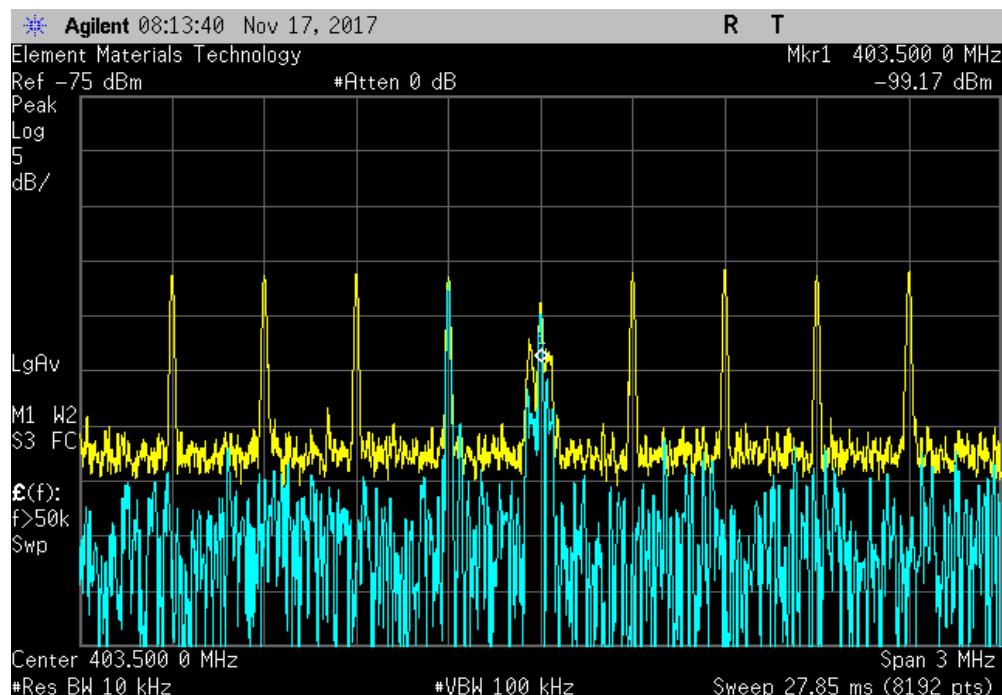
Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 3

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 4

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



MINIMUM CHANNEL MONITORING PERIOD



XMIT 2017.09.21

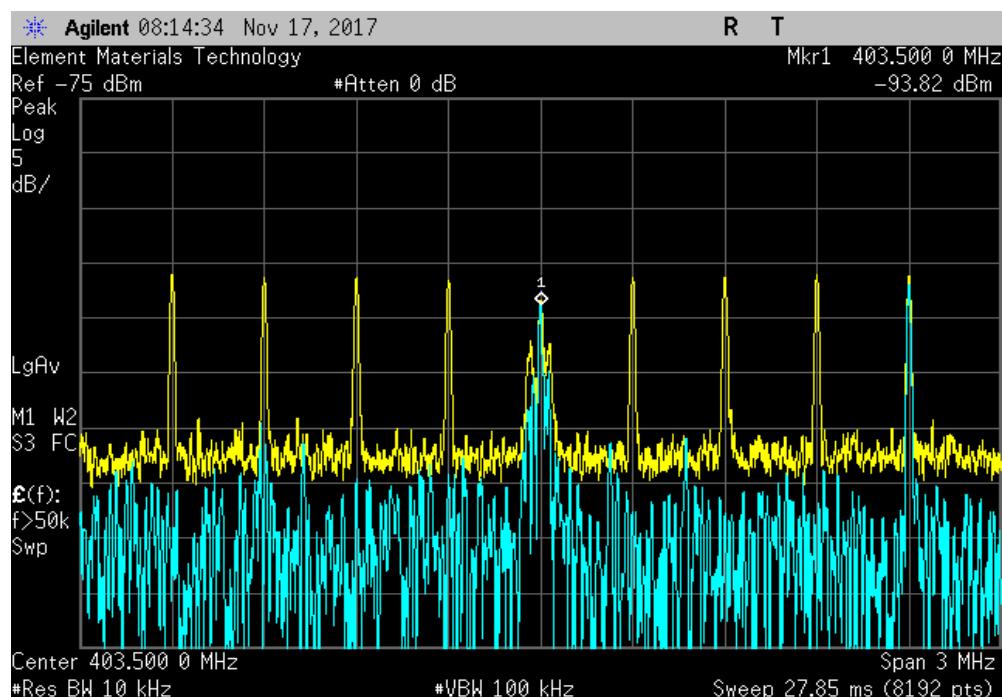
Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 5

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 6

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass

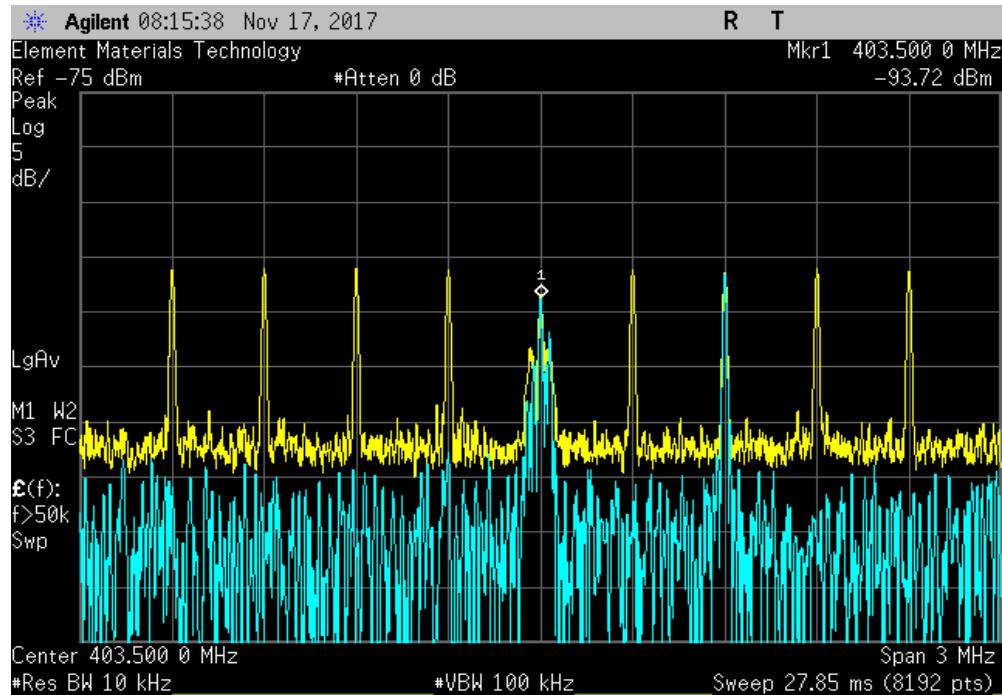


MINIMUM CHANNEL MONITORING PERIOD

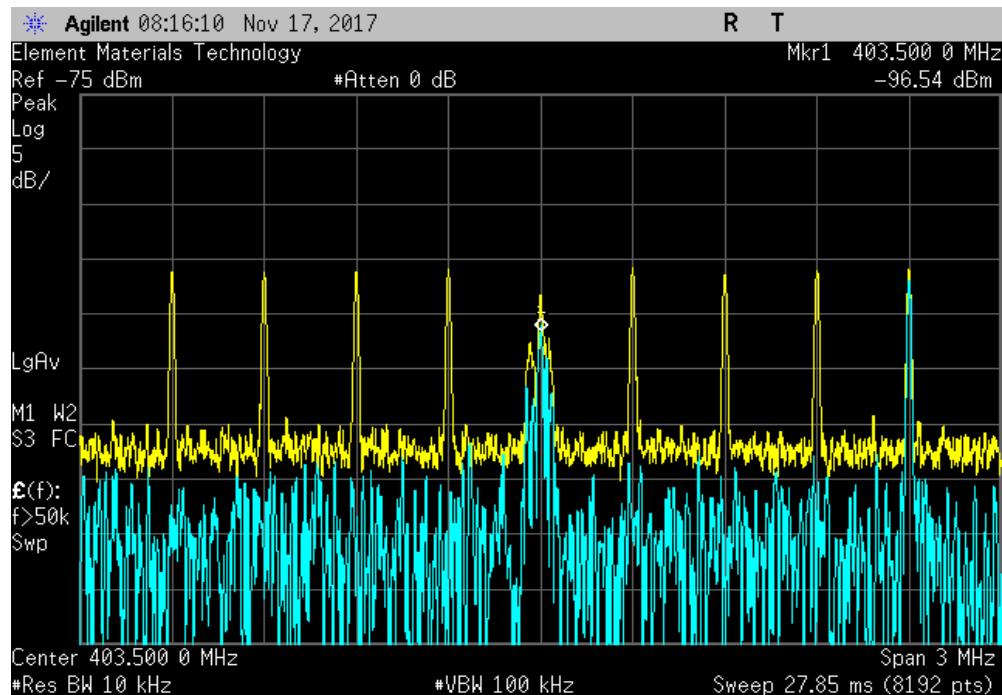


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Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 7		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 8		
Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



MINIMUM CHANNEL MONITORING PERIOD



XMIT 2017.09.21

Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 9

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



Mid Channel (Fc), 403.5 MHz, Monitoring Period Sample 10

Does EUT Initiate Communications on Fc? (Y/N)		Result
Yes		Pass



CHANNEL ACCESS BASED ON AMBIENT LEVELS



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

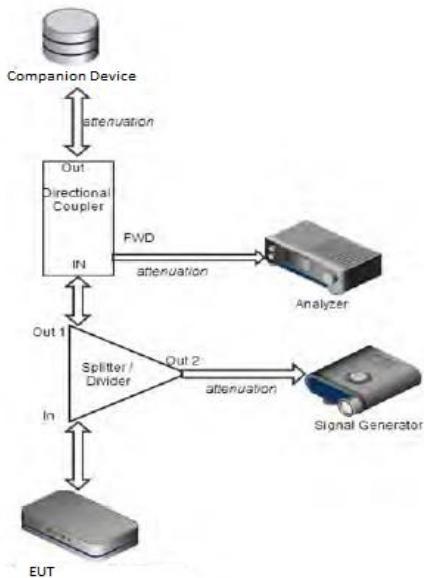
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \text{LOG}(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10 \text{ dB}$.

The intended frequency (F_c) was set to the LBT threshold - 3 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The EUT was verified to transmit on F_c . The amplitude of F_c was then raised to the LBT threshold + 6 dB. The EUT was verified to transmit on LIC.

The spectrum analyzer was set to measure the transmit bands of 401-402 and 405-406 MHz. Screen captures were provided to show the EUT behavior at the different LBT threshold levels.



CHANNEL ACCESS BASED ON AMBIENT LEVELS



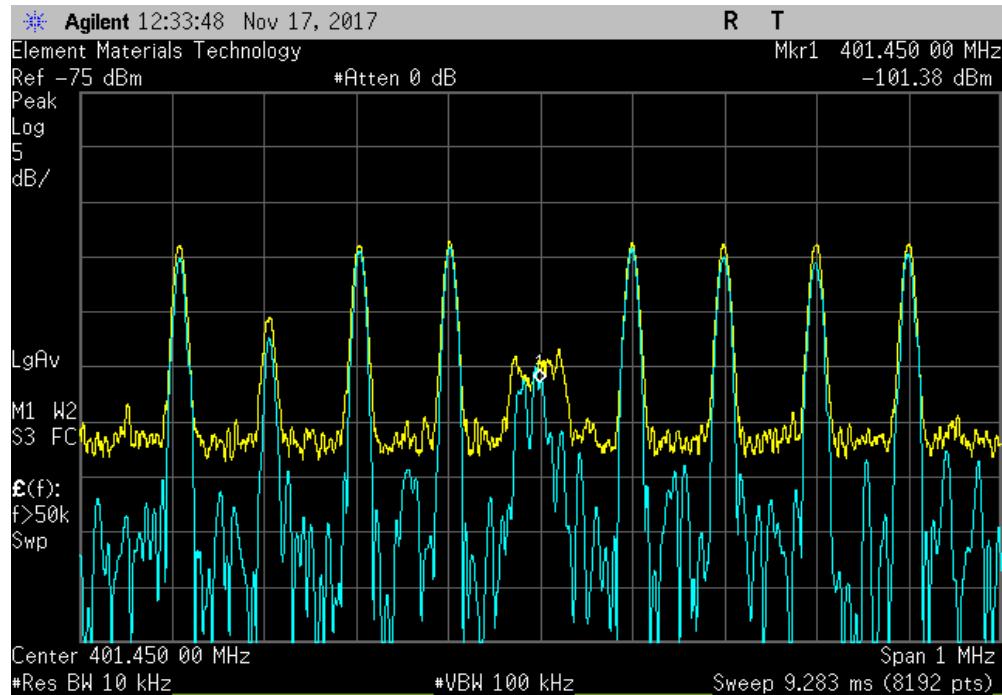
EUT: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)			Work Order: AXON0097	
Serial Number: AC1C870003			Date: 20-Nov-17	
Customer: Axonics Modulation Technologies, Inc.			Temperature: 21.4 °C	
Attendees: Franklin Portillo			Humidity: 45.7% RH	
Project: None			Barometric Pres.: 1018 mbar	
Tested by: Johnny Candelas	Power: 7.6VDC	Job Site: OC13		
TEST SPECIFICATIONS				
EN 302 537 V2.1.1:2016		Test Method		
EN 302 537 V2.1.1:2016				
COMMENTS				
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	30	Signature		
		Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	
401-402 MHz Band		Mid Channel (Fc), 401.55 MHz Fc LBT Threshold -3dB Fc LBT Threshold +6dB	Yes No	No Yes
405-406 MHz Band		Mid Channel (Fc), 405.55 MHz Fc LBT Threshold -3dB Fc LBT Threshold +6dB	Yes No	No Yes
				Pass Pass
				Pass Pass

CHANNEL ACCESS BASED ON AMBIENT LEVELS

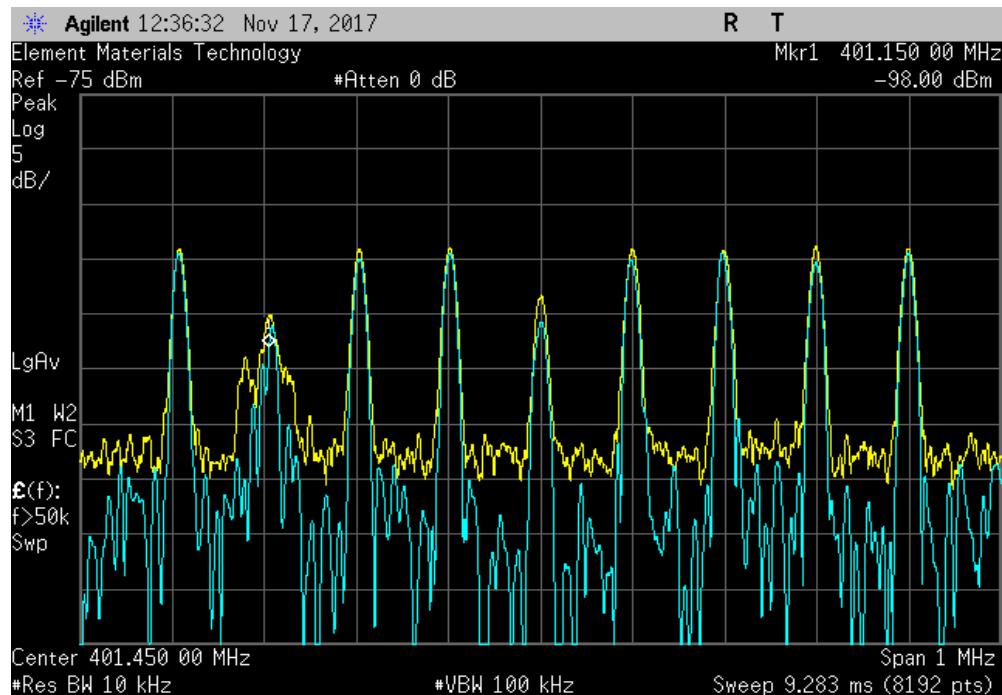


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Fc LBT Threshold -3dB				
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result		
Yes	No		Pass	



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Fc LBT Threshold +6dB				
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result		
No	Yes		Pass	

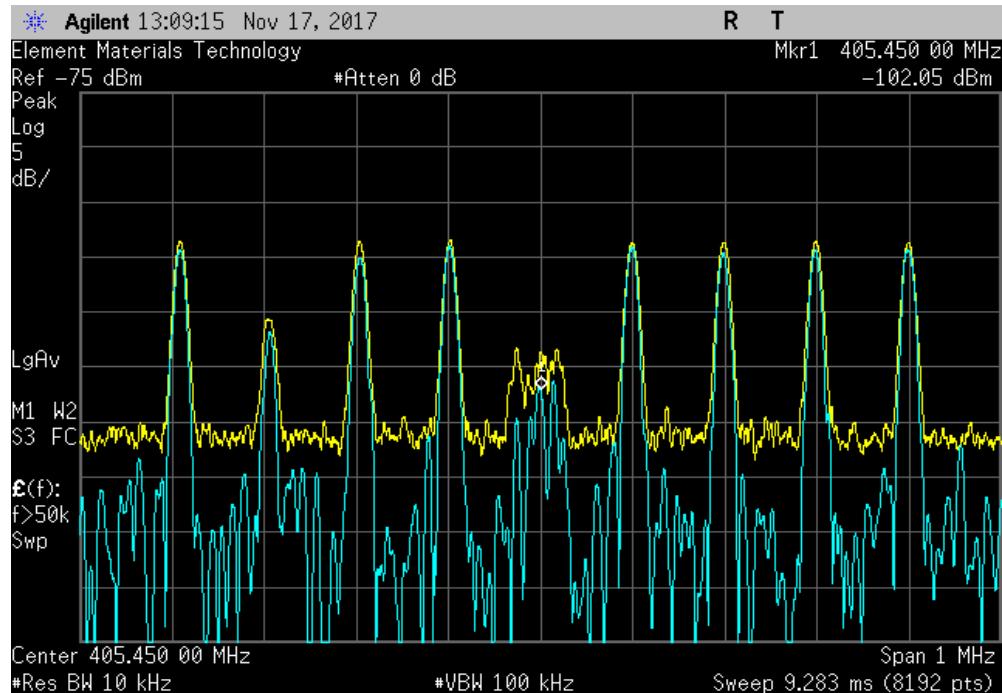


CHANNEL ACCESS BASED ON AMBIENT LEVELS

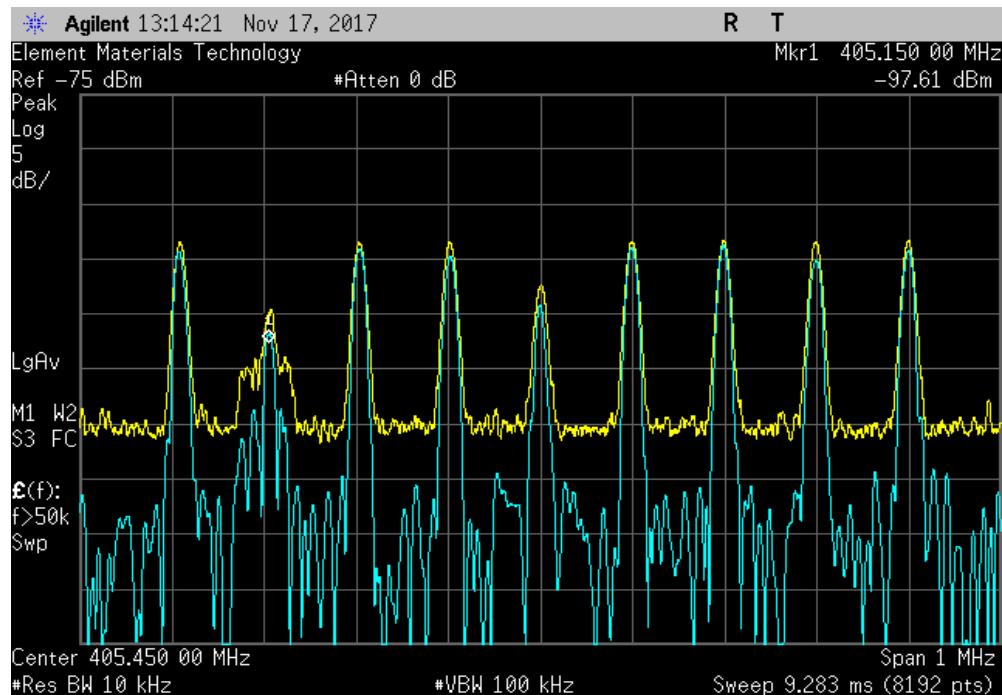


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405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Fc LBT Threshold -3dB		
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result
Yes	No	Pass



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Fc LBT Threshold +6dB		
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result
No	Yes	Pass



CHANNEL ACCESS BASED ON AMBIENT LEVELS



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

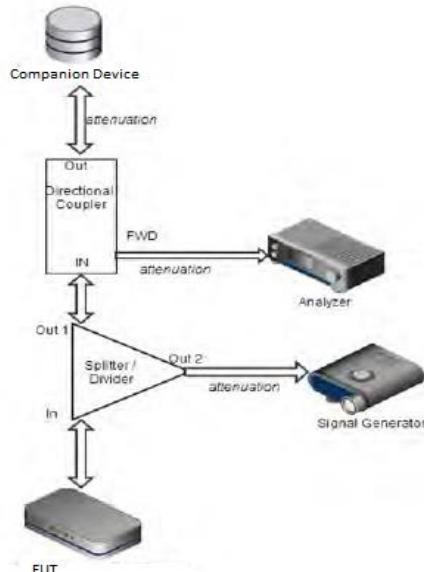
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10 \text{ dB}$.

The intended frequency (F_c) was set to the LBT threshold - 3 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The EUT was verified to transmit on F_c . The amplitude of F_c was then raised to the LBT threshold + 6 dB. The EUT was verified to transmit on LIC.

The spectrum analyzer was set to measure the transmit band of 402-405 MHz. Screen captures were provided to show the EUT behavior at the different LBT threshold levels.



CHANNEL ACCESS BASED ON AMBIENT LEVELS



XMIT 2017.08.21

EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097	
Serial Number:	AC1C870003		Date:	20-Nov-17	
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C	
Attendees:	Franklin Portillo		Humidity:	45.7% RH	
Project:	None		Barometric Pres.:	1018 mbar	
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13
TEST SPECIFICATIONS			Test Method		
EN 301 839 V2.1.1:2016			EN 301 839 V2.1.1:2016		
COMMENTS					
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	30	Signature	Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result
Mid Channel (Fc), 403.5 MHz			Yes	No	Pass
Fc LBT Threshold -3dB			No	Yes	Pass
Fc LBT Threshold +6dB					

CHANNEL ACCESS BASED ON AMBIENT LEVELS



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Mid Channel (Fc), 403.5 MHz, Fc LBT Threshold -3dB				
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result		
Yes	No		Pass	



Mid Channel (Fc), 403.5 MHz, Fc LBT Threshold +6dB				
Does EUT Transmit on Fc? (Y/N)	Does EUT Transmit on LIC? (Y/N)	Result		
No	Yes		Pass	



DISCONTINUATION OF A MEDS SESSION



XMit 2017.09.21

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

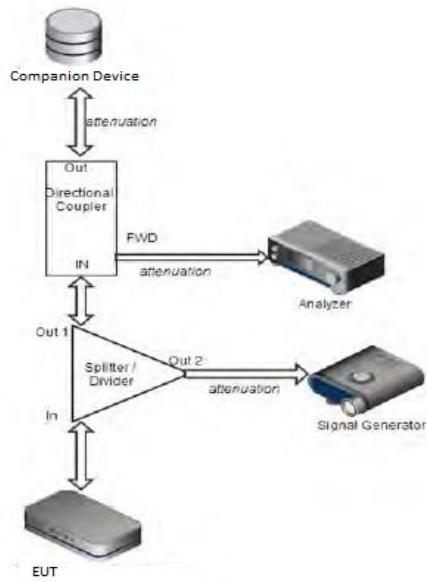
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10 \text{ dB}$.

The intended frequency (F_c) was set to the LBT threshold + 6 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The spectrum analyzer was set to measure the time between the removal of the MEDS Implant AMI / reduction of the signal level on (F_c) to when the EUT does not transmit on the initial LIC.



DISCONTINUATION OF A MEDS SESSION



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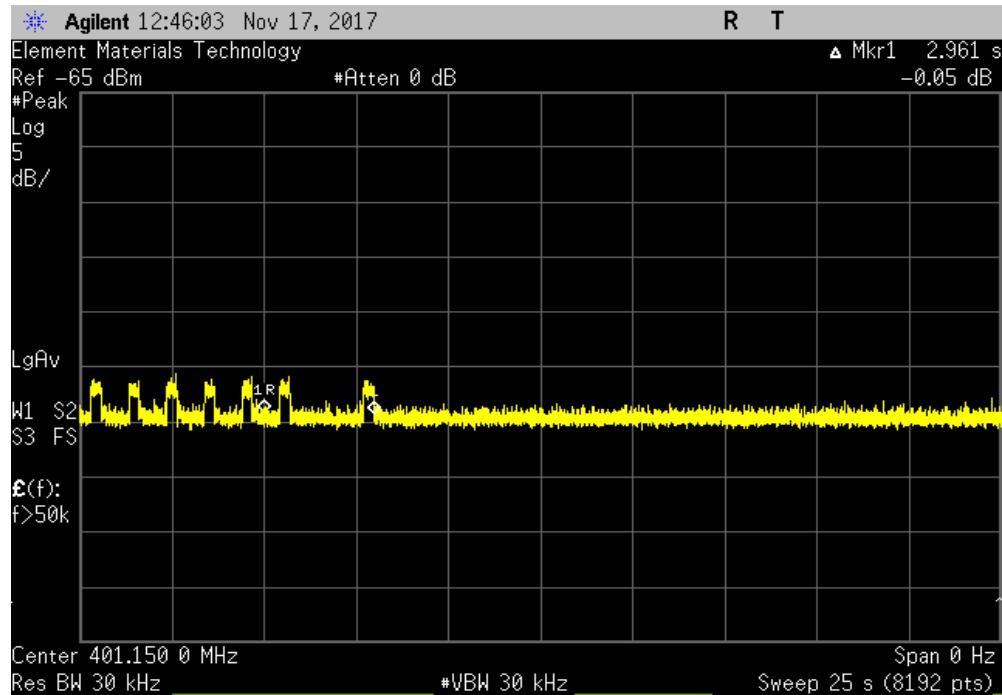
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097	
Serial Number:	AC1C870003		Date:	20-Nov-17	
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C	
Attendees:	Franklin Portillo		Humidity:	45.7% RH	
Project:	None		Barometric Pres.:	1018 mbar	
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13
TEST SPECIFICATIONS			Test Method		
EN 302 537 V2.1.1:2016			EN 302 537 V2.1.1:2016		
COMMENTS					
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	30	Signature		Value (Seconds)	Limit (Seconds)
401-402 MHz Band	LIC 25 Second Sweep, 401.25 MHz		2.961	≤ 5	Pass
405-406 MHz Band	LIC 25 Second Sweep, 405.25 MHz		3.095	≤ 5	Pass

DISCONTINUATION OF A MEDS SESSION

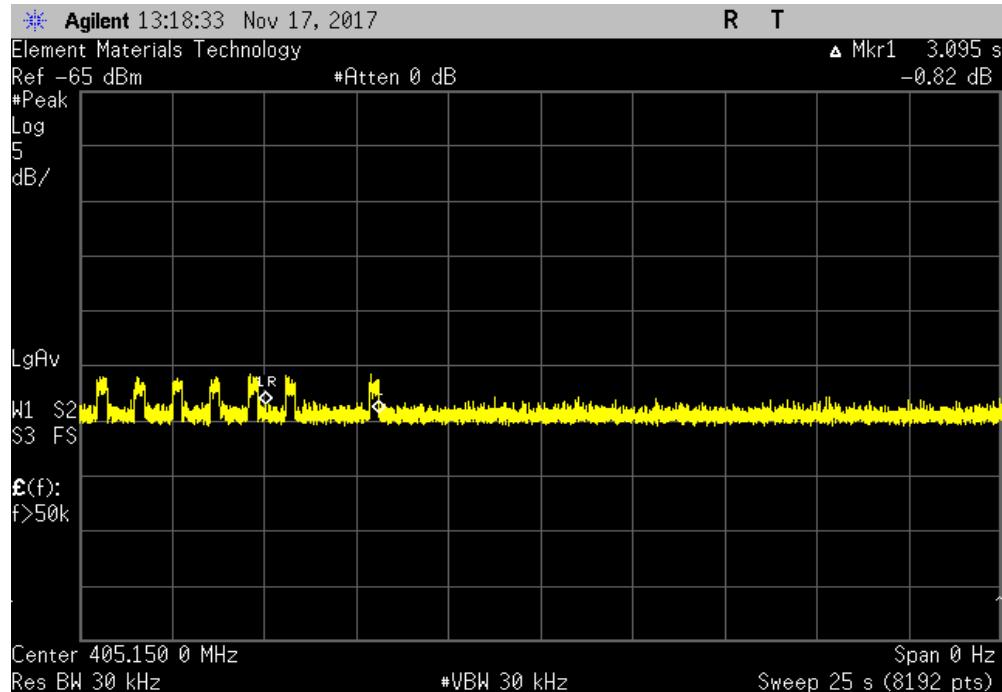


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401-402 MHz Band, LIC 25 Second Sweep, 401.25 MHz			
	Value (Seconds)	Limit (Seconds)	Result
	2.961	≤ 5	Pass



405-406 MHz Band, LIC 25 Second Sweep, 405.25 MHz			
	Value (Seconds)	Limit (Seconds)	Result
	3.095	≤ 5	Pass



DISCONTINUATION OF A MICS SESSION



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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

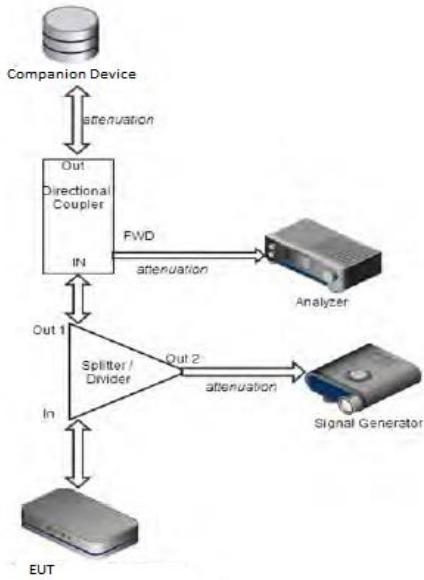
Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \times \text{LOG}(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10 \text{ dB}$.

The intended frequency (F_c) was set to the LBT threshold + 6 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The spectrum analyzer was set to measure the time between the removal of the MICS Implant AMI / reduction of the signal level on (F_c) to when the EUT ceases to transmit on the initial LIC.



DISCONTINUATION OF A MICS SESSION



EUT: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)			Work Order: AXON0097
Serial Number: AC1C870003			Date: 20-Nov-17
Customer: Axonics Modulation Technologies, Inc.			Temperature: 21.4 °C
Attendees: Franklin Portillo			Humidity: 45.7% RH
Project: None			Barometric Pres.: 1018 mbar
Tested by: Johnny Candelas	Power: 7.6VDC	Job Site: OC13	
TEST SPECIFICATIONS			
EN 301 839 V2.1.1:2016		Test Method	
EN 301 839 V2.1.1:2016			
COMMENTS			
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	30	Signature	
			Value (Seconds) Limit (Seconds) Result
			3.415 ≤ 5 Pass

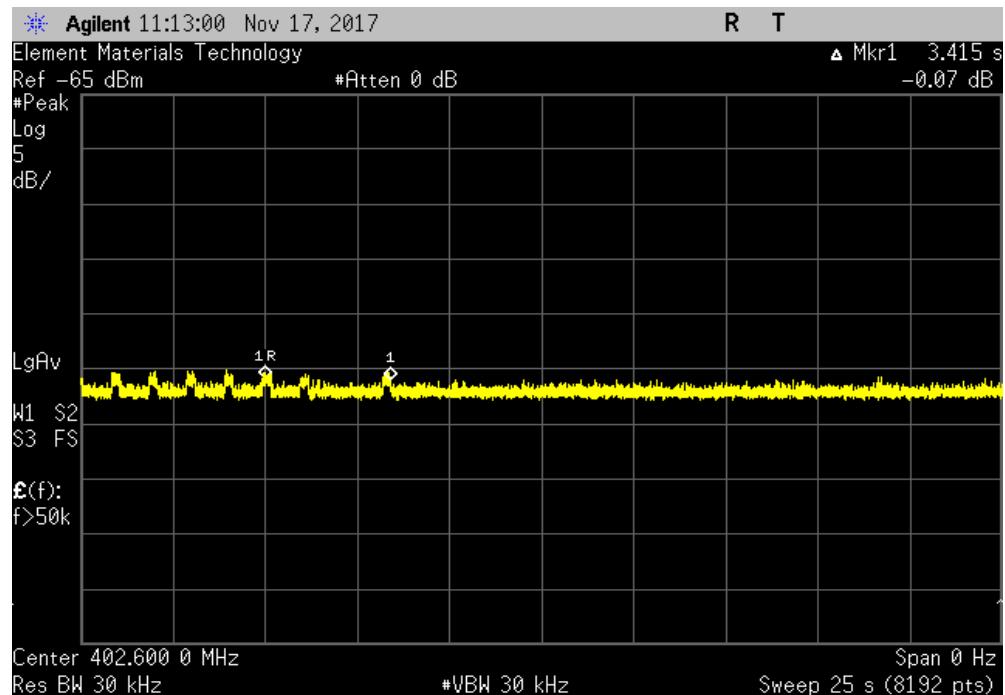
LIC 25 Second Sweep, 402.6 MHz

DISCONTINUATION OF A MICS SESSION



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LIC 25 Second Sweep, 402.6 MHz				Value (Seconds)	Limit (Seconds)	Result
				3.415	≤ 5	Pass



USE OF PRE-SCANNED ALTERNATIVE CHANNELS



XMit 2017.09.21

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 Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

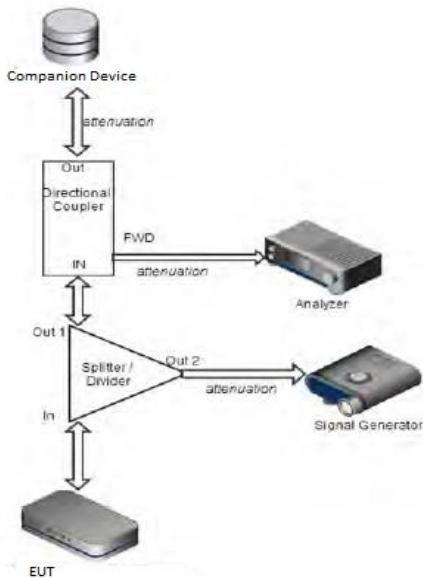
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram:

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10 \text{ dB}$.

The intended frequency (Fc) was set to the LBT threshold - 3 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The EUT was verified to transmit on Fc. While the session was still active a second least interfered channel (LIC2) was set to the LBT threshold - 2 dB. The amplitude of Fc was then raised to the LBT threshold + 6 dB.

The spectrum analyzer was set to measure the transmit bands of 401-402 and 405-406 MHz. Screen captures were provided to show the EUT behavior at the different LBT threshold levels. The EUT was verified to transmit on Fc which shows that the EUT does not use pre-scanned alternate channels.



USE OF PRE-SCANNED ALTERNATIVE CHANNELS



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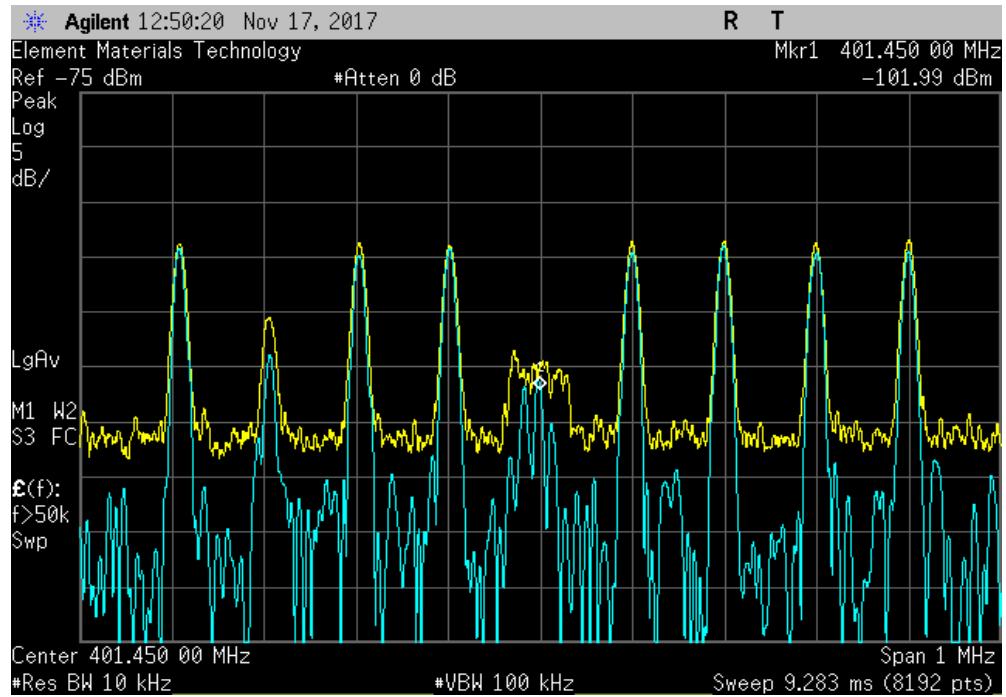
EUT:	Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order:	AXON0097		
Serial Number:	AC1C870003		Date:	20-Nov-17		
Customer:	Axonics Modulation Technologies, Inc.		Temperature:	21.4 °C		
Attendees:	Franklin Portillo		Humidity:	45.7% RH		
Project:	None		Barometric Pres.:	1018 mbar		
Tested by:	Johnny Candelas	Power:	7.6VDC	Job Site:	OC13	
TEST SPECIFICATIONS			Test Method			
EN 302 537 V2.1.1:2016			EN 302 537 V2.1.1:2016			
COMMENTS						
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -98.75 dBm. Emission Bandwidth = 82582 Hz, Antenna Gain = 2.08dBi.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	30	Signature	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?	
401-402 MHz Band						
Mid Channel (Fc), 401.55 MHz			No	No	Yes	N/A
Initial Setting, Fc at Threshold -3dB			No	No	Yes	N/A
LIC2 Available at Threshold -2dB			No	No	Yes	N/A
Final Setting, LIC2 Available, Fc at Threshold +6dB			No	No	Yes	N/A
405-406 MHz Band						
Mid Channel (Fc), 405.55 MHz			No	No	Yes	N/A
Initial Setting, Fc at Threshold -3dB			No	No	Yes	N/A
LIC2 Available at Threshold -2dB			No	No	Yes	N/A
Final Setting, LIC2 Available, Fc at Threshold +6dB			No	No	Yes	N/A

USE OF PRE-SCANNED ALTERNATIVE CHANNELS

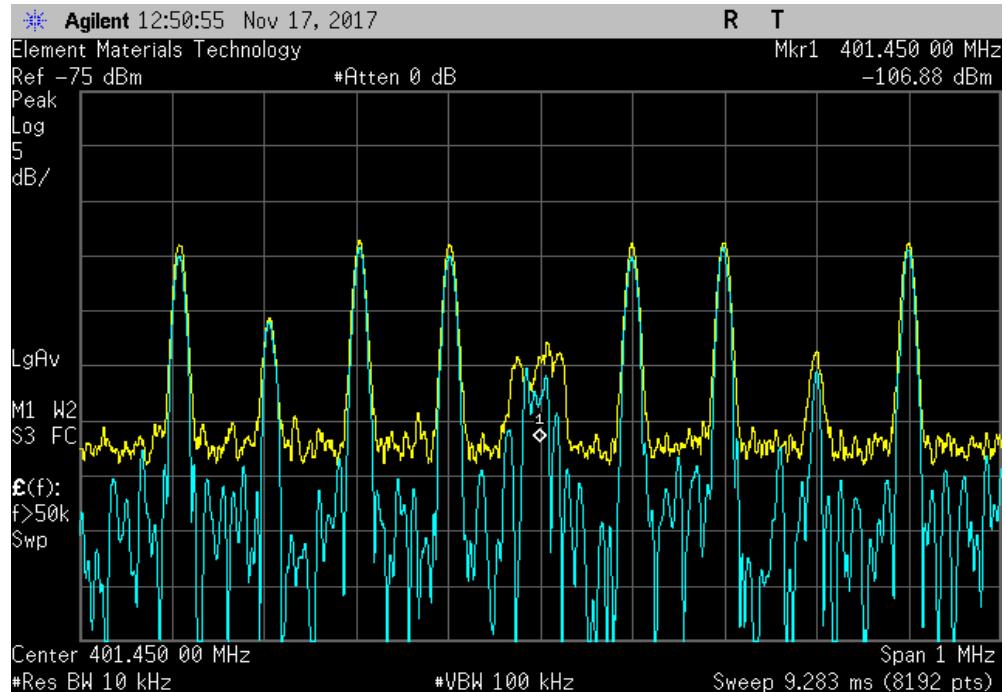


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Initial Setting, Fc at Threshold -3dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A



401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, LIC2 Available at Threshold -2dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A

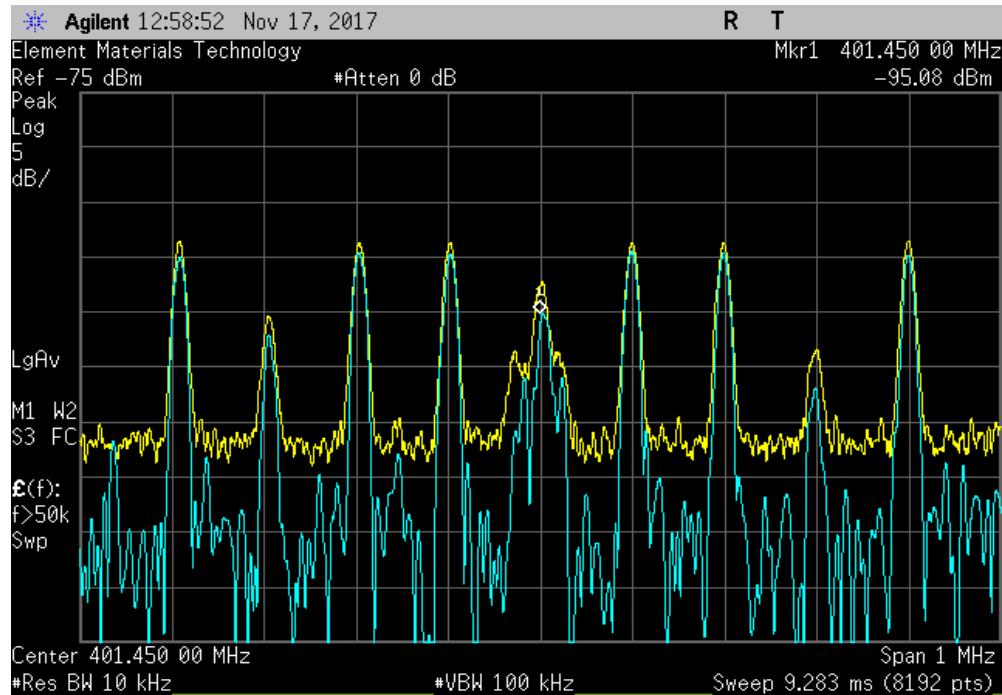


USE OF PRE-SCANNED ALTERNATIVE CHANNELS

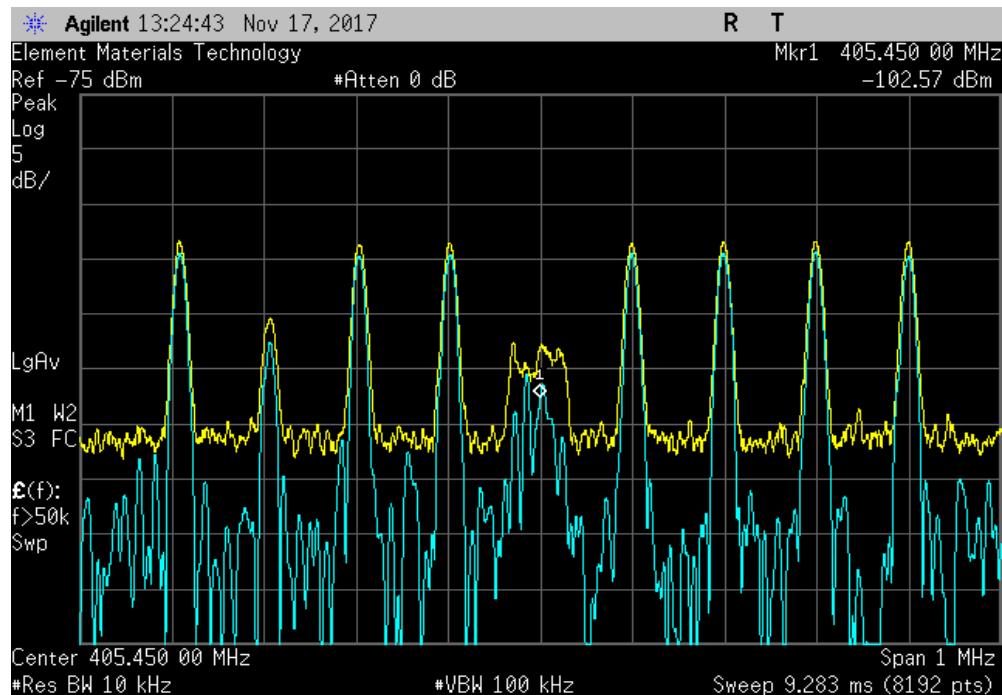


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401-402 MHz Band, Mid Channel (Fc), 401.55 MHz, Final Setting, LIC2 Available, Fc at Threshold +6dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Initial Setting, Fc at Threshold -3dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A

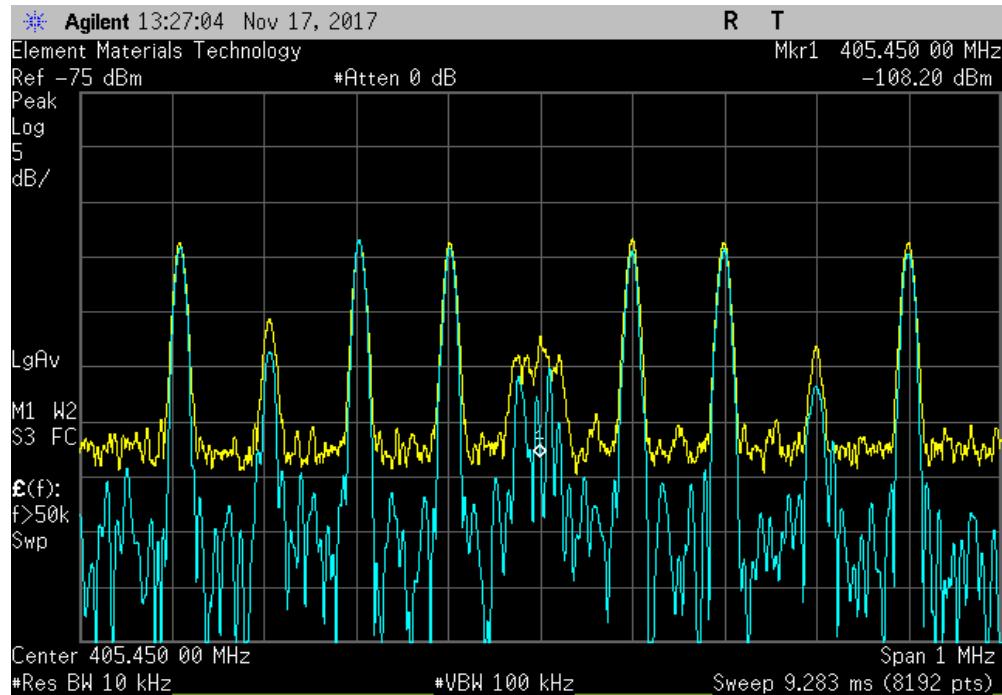


USE OF PRE-SCANNED ALTERNATIVE CHANNELS

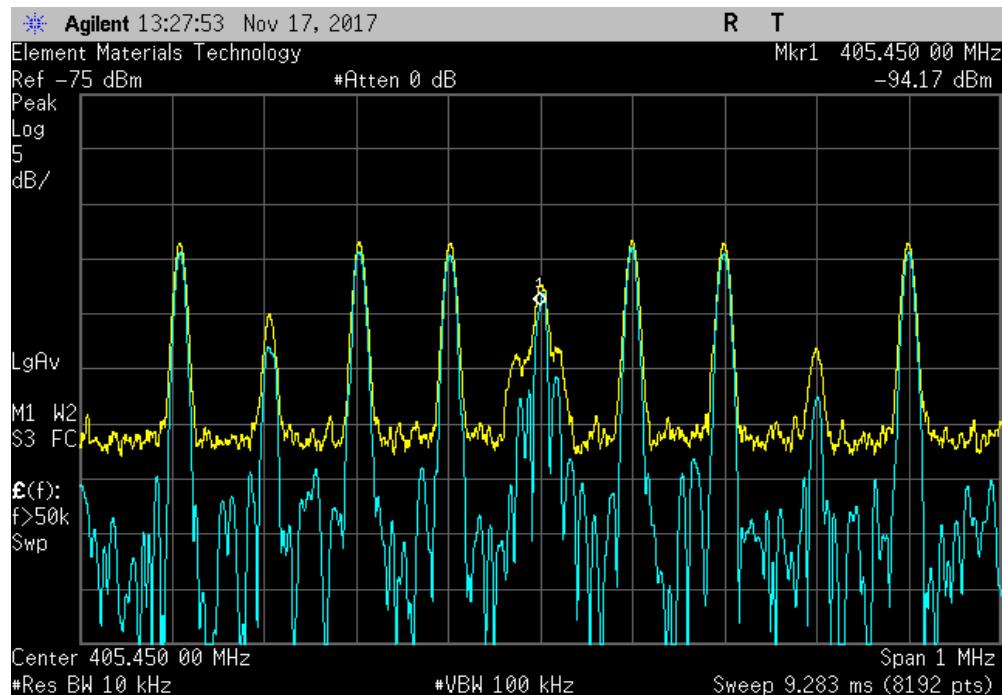


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405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, LIC2 Available at Threshold -2dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A



405-406 MHz Band, Mid Channel (Fc), 405.55 MHz, Final Setting, LIC2 Available, Fc at Threshold +6dB			
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?
	No	No	Yes
			N/A



USE OF PRE-SCANNED ALTERNATIVE CHANNELS



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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Divider/Combiner	Fairview Microwave	MP8451-2	IAO	NCR	NCR
Directional Coupler	Amplifier Research	DC3400A	IRL	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	N5182A	TIF	23-Aug-17	23-Aug-20
Generator - Signal	Agilent	E8257D	TGU	5-Feb-15	5-Feb-18
Attenuator	Fairview Microwave	SA18H-20	TKR	28-Dec-17	28-Dec-18
Block - DC	Fairview Microwave	SD3379	AMV	28-Dec-17	28-Dec-18
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	9-Nov-17	9-Nov-18

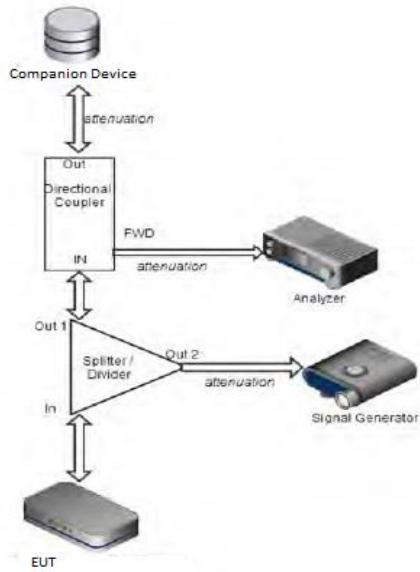
TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was configured according to the following block diagram.

The signal generator was set to multitone operation to cause equal interference across the entire band. The amplitude of the multitone signals (out of operation region) were set to the LBT threshold of $10 \cdot \log(\text{Bandwidth}) - 150 + \text{Antenna Gain} + 10$ dB.

The intended frequency (F_c) was set to the LBT threshold - 3 dB. A least interfered channel (LIC) was set to the LBT threshold + 3 dB. The EUT was verified to transmit on F_c . While the session was still active a second least interfered channel (LIC2) was set to the LBT threshold - 2 dB. The amplitude of F_c was then raised to the LBT threshold + 6 dB.

The spectrum analyzer was set to measure the transmit band of 402-405 MHz. Screen captures were provided to show the EUT behavior at the different LBT threshold levels. The EUT was verified to transmit on F_c which shows that the EUT does not use pre-scanned alternate channels.



USE OF PRE-SCANNED ALTERNATIVE CHANNELS



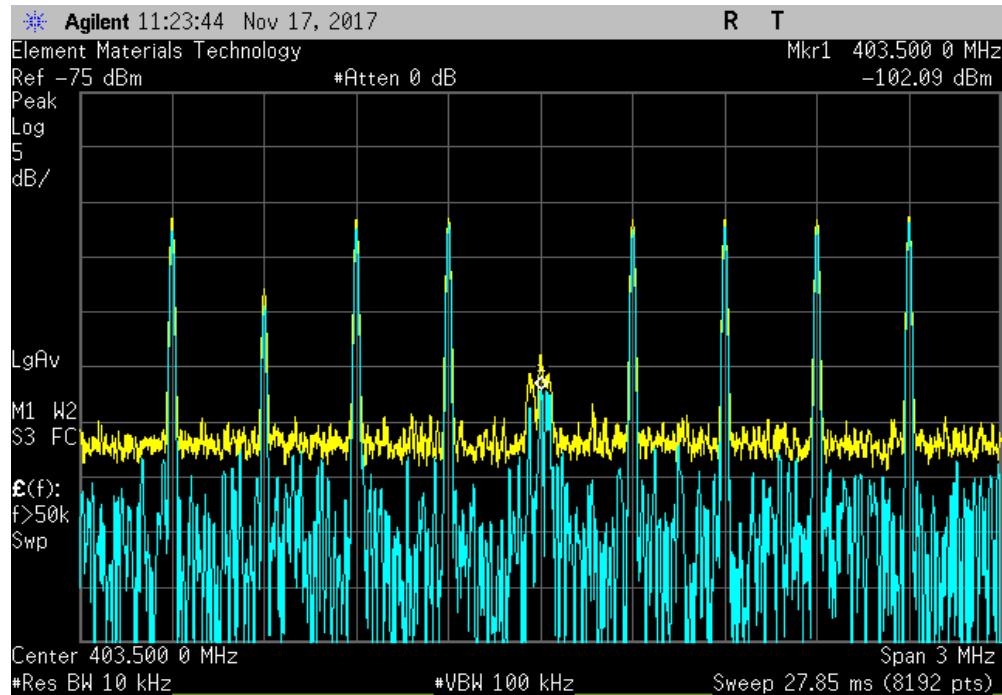
EUT: Clinician Programmer (CP) Model: 2501 (MICS/MEDS/MedRadio)		Work Order: AXON0097	
Serial Number: AC1C870003		Date: 20-Nov-17	
Customer: Axonics Modulation Technologies, Inc.		Temperature: 21.4 °C	
Attendees: Franklin Portillo		Humidity: 45.7% RH	
Project: None		Barometric Pres.: 1018 mbar	
Tested by: Johnny Candelas	Power: 7.6VDC	Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
EN 301 839-2 V1.3.1:2009		EN 301 839-1 V1.3.1:2009	
COMMENTS			
Calculated LBT Threshold = 10 * LOG(Bandwidth) - 150 + Antenna Gain = -96.87 dBm. Emission Bandwidth = 127432 Hz, Antenna Gain = 2.08dBi.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	30	Signature 	
		Transmit on LIC1?	Transmit on LIC2?
		Transmit on Fc?	Result
Mid Channel (Fc), 403.5 MHz			
Initial Setting, Fc at Threshold -3dB			
LIC2 Available at Threshold -2dB			
Final Setting, LIC2 Available, Fc at Threshold +6dB			
		No	No
		No	No
		No	No
		Yes	N/A
		Yes	N/A
		Yes	N/A

USE OF PRE-SCANNED ALTERNATIVE CHANNELS

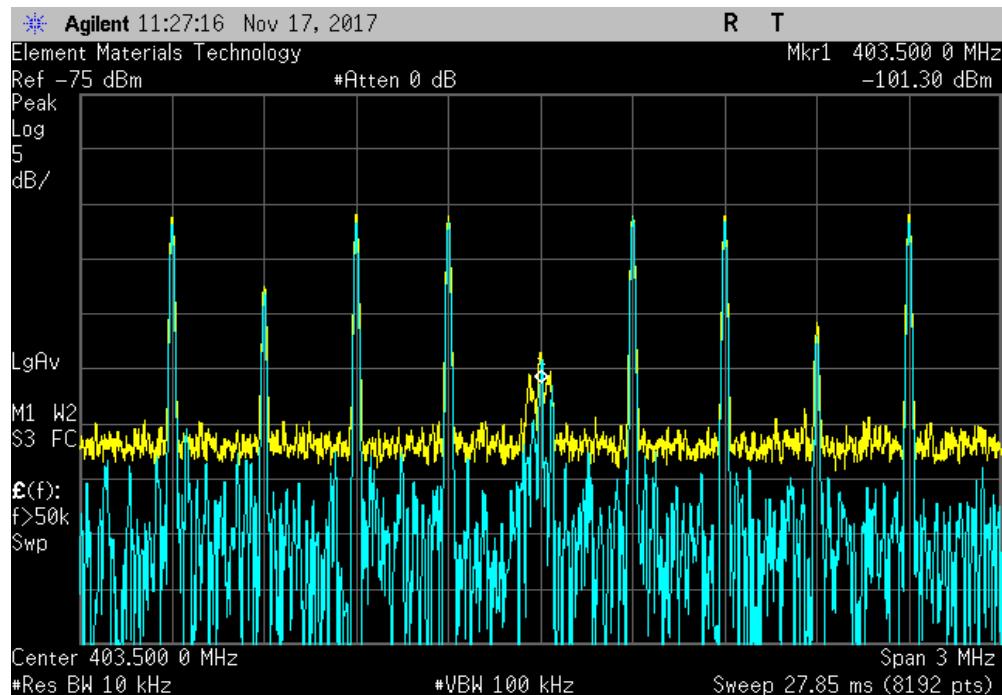


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Mid Channel (Fc), 403.5 MHz, Initial Setting, Fc at Threshold -3dB				Result	
Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?	Result		
No	No	Yes	N/A		



Mid Channel (Fc), 403.5 MHz, LIC2 Available at Threshold -2dB				Result	
Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?	Result		
No	No	Yes	N/A		



USE OF PRE-SCANNED ALTERNATIVE CHANNELS



XMI 2017.09.21

Mid Channel (Fc), 403.5 MHz, Final Setting, LIC2 Available, Fc at Threshold +6dB				
	Transmit on LIC1?	Transmit on LIC2?	Transmit on Fc?	Result
	No	No	Yes	N/A

