Medtronic, Inc.

MyCareLink Home Communicator Model 26950

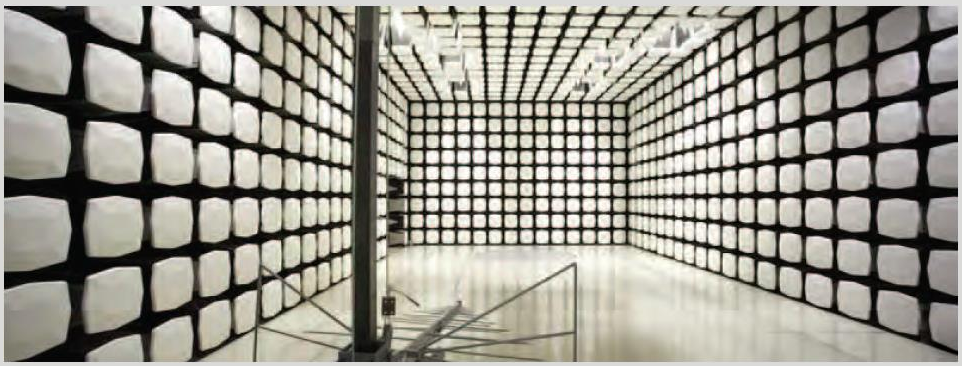
FCC 15.407:2025

RSS-247 Issue 4:2025

RSS-Gen Issue 5:2018+A1:2019+A2:2021

DFS Wi-Fi

Report: MDTR1166.10 Rev. 02, Issue Date: March 3, 2026



ACCREDITED
CERT #3310.05

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element
2023.04.17

Section	Page Number

CERTIFICATE OF TEST

Last Date of Test: July 25, 2025
Medtronic, Inc.
EUT: MyCareLink Home Communicator Model 26950

Radio Equipment Testing

Standards

Specification	Method
FCC 15.407:2025	ANSI C63.10-2020 + Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024
RSS-247 Issue 4:2025	
RSS-Gen Issue 5:2018+A1:2019+A2:2021	

Guidance

FCC KDB 905462 v02:2016

Results

Test Description	Result	FCC Section(s)	ISED Section(s)	Method Section(s)	Comments
DFS Testing - Test Signal Level	N/A	15.407(h)	RSS-247 7.3.6	KDB 905462, 7.5	Not required if EUT does not support DFS Bands or device is a "Client" without radar detection.
DFS Testing - Channel Loading Channel Utilization	Pass	15.407(h)	RSS-247 7.3.6	KDB 905462, 7.7	
DFS Testing - Detection Bandwidth	N/A	15.407(h)	RSS-247 7.3.6	KDB 905462, 7.8.1	Not required if EUT does not support DFS Bands or device is a "Client" without radar detection.
DFS Testing - Channel Availability Check	N/A	15.407(h)(2)(ii)	RSS-247 7.3.6	KDB 905462, 7.8.2	Not required if EUT does not support DFS Bands or device is a "Client" without radar detection.
DFS Testing - Move Time	Pass	15.407(h)(2)(iii)	RSS-247 7.3.6	KDB 905462, 7.8.3	
DFS Testing - Closing Time	Pass	15.407(h)	RSS-247 7.3.6	KDB 905462, 7.8.3	
DFS Testing - Non Occupancy Period	Pass	15.407(h)(2)(iv)	RSS-247 7.3.6	KDB 905462, 7.8.3	
DFS Testing - Statistical Performance	N/A	15.407(h)	RSS-247 7.3.6	KDB 905462, 7.8.4	Not required if EUT does not support DFS Bands or device is a "Client" without radar detection.
DFS Testing - DFS Product Information	N/A	N/A	N/A	N/A	Not required if EUT does not support DFS Bands or device is a "Client" without radar detection.

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. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

CERTIFICATE OF TEST

Deviations From Test Standards

None

Approved By:

Jeff Alcoke, Senior EMC Test Engineer
Signed for and on behalf of Element

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. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY

element
2025.07.22

Revision Number	Description	Date (yyyy-mm-dd)	Page Number
01	Updated EUT section and added Customer Provided Information, Statement of Similarity	2026-02-09	12, 13
02	Added KDB 905462 method sections to the CoT	2026-03-03	3
	Corrected test result for Move Time and Detection Bandwidth on the CoT		3
	Added +C63.10a-2024 + Errata to C63.10a-2024 to the methods in the CoT		3
	Added units (dBm) to the antennas and power settings section		14
	Removed block diagrams		7-10
	Added measurement uncertainty tables		
	Restructured report order		

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 - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

FDA - Recognized by the FDA as an Accreditation Scheme for Conformity Assessment (ASCA)-accredited testing laboratory for basic safety and essential performance.

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission – Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS – Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

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

Korea

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

Japan

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

Taiwan

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

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

Singapore

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

Israel

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

Hong Kong

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

SCOPE

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

California Minnesota Oregon Washington

FACILITIES

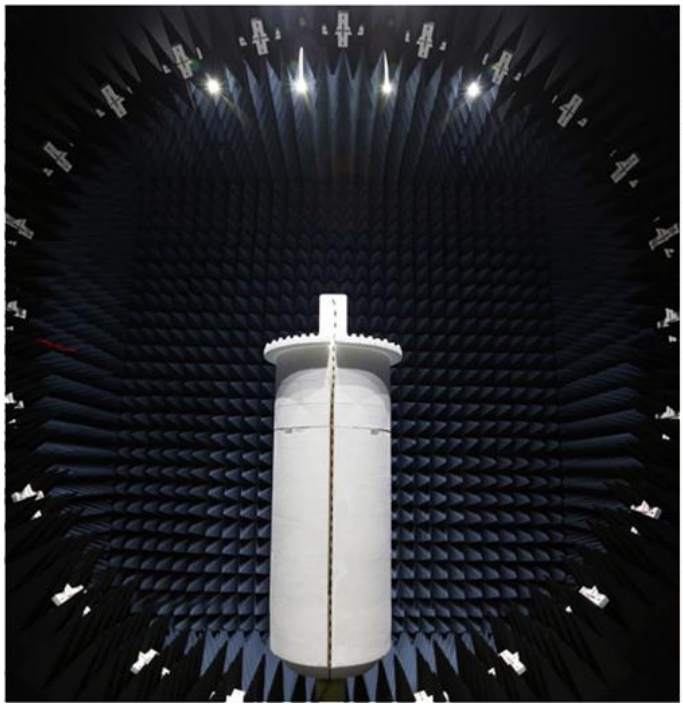
element
2025.07.17

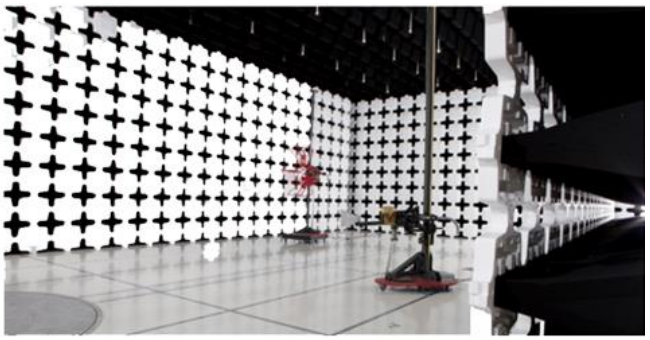
Testing was performed at the following location(s)

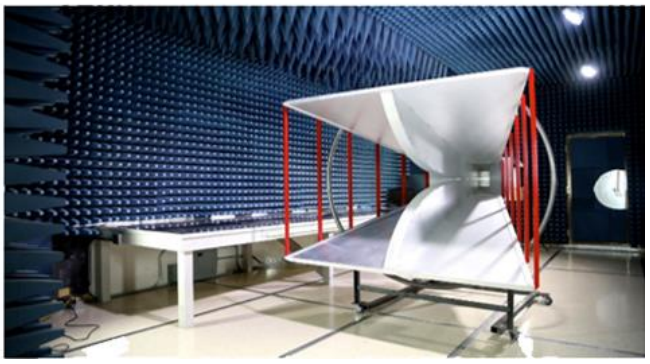
	Location	Labs (1)	Address	A2LA (2)	ISED (3)	BSMI (4)	VCCI (5)	CAB	FDA (6)
☐	California	OC01-17	41 Tesla Irvine, CA 92618 (949) 861-8918	3310.04	2834B	SL2-IN-E-1154R	A-0029	US0158	TL-55
☒	Minnesota	MN01-11	9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	3310.05	2834E	SL2-IN-E-1152R	A-0109	US0175	TL-57
☐	Oregon	EV01-12	6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	3310.02	2834D	SL2-IN-E-1017	A-0108	US0017	TL-56
☐	Washington	NC01-05	19201 120th Ave NE Bothell, WA 98011 (425) 984-6600	3310.06	2834F	SL2-IN-E-1153R	A-0110	US0157	TL-67
☐	Offsite	N/A	See Product Description	N/A	N/A	N/A	N/A	N/A	N/A

See data sheets for specific labs

(1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
(2) A2LA Certificate No.
(3) ISED Company No.
(4) BSMI No.
(5) VCCI Site Filing No.
(6) FDA ASCA No.







MEASUREMENT UNCERTAINTY

element
MU 2025-03-26

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 reported is based on statistical analysis that was performed by the laboratory. 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 in the table below. A lab specific value may also be found in the applicable test description section. 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.

Various Measurements

Test	All Labs (+/-)
Frequency Accuracy (%)	0.0007
Amplitude Accuracy (dB)	1.2
Conducted Power (dB)	1.2
Radiated Power via Substitution (dB)	0.7
Temperature (degrees C)	0.7
Humidity (% RH)	2.5
Voltage (AC) (%)	1
Voltage (DC) (%)	0.7
Near-field Measurement of E-Field (dB)	1.89
Near-field Measurement of H-Field (dB)	2.65

PRODUCT DESCRIPTION

Client and Equipment under Test (EUT) Information

Company Name:	Medtronic, Inc.
Address:	710 Medtronic Pkwy NE
City, State, Zip:	Minneapolis, MN 55432
Test Requested By:	Jed Meyer
EUT:	MyCareLink Home Communicator Model 26950 MyCareLink Home Communicator Model 26900
First Date of Test:	July 25, 2025
Last Date of Test:	July 25, 2025
Receipt Date of Samples:	July 25, 2025
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
The MyCareLink Home Communicator Model 26950 monitor wirelessly transfers information between an implanted medical device and the Medtronic CareLink network. The wireless communication between the MyCareLink Home Communicator Model 26950 and an implanted medical device is accomplished by means of either a Bluetooth low energy (BLE) radio or inductive telemetry. The link between the MyCareLink Home Communication Model 26950 and the Medtronic CareLink network is accomplished by means of either a Wi-Fi or cellular radio. The Wi-Fi radio supports 802.11a/b/g/n (2.4 GHz and 5GHz, 20 or 40 MHz bandwidth) and the two variations of the cellular radio.

Testing Objective:
To demonstrate compliance of the DFS functionality of the Wi-Fi 802.11 a/n SISO radio under FCC 15.407 for operation in the 5.3 GHz and 5.6 GHz bands.

PRODUCT DESCRIPTION

Client Provided Information:

Medtronic

Product Similarity Statement
MyCareLink Home Communicator 26900, 26950

The purpose of this document is to record the design similarities between the products identified below. This document shall be referenced in product test reports to justify why test data from one of these products applies to all such that conformity with applicable harmonized standards of the Radio Equipment Directive 2014/53/EU can be achieved.

Products
MyCareLink Home Communicator 26900, MyCareLink Home Communicator 26950

Product Similarity

This document describes the product design similarities of the MyCareLink Home ("MCL Home") family of home monitor products.

All versions of the product include an external AC adapter which converts the local AC electrical power to 12 volts DC and a main printed circuit board.

The AC adapter is universal, using switching circuitry that is compatible with input voltages from 100 to 240 volts AC, 50 to 60 Hertz. The only differences among the adapters are the AC blade styles and the sizes of the plastic cases to accommodate the AC blades.

The main printed circuit board contains the microprocessor and memories, voltage regulators, user interface (pushbutton switch, LED display lights, and speaker), Bluetooth Low Energy/Wi-fi radio module with two antennas, and LTE cellular radio module with one antenna.

There are two versions of the main printed circuit board: one with a cellular radio module for use in the United States, and the other with a global cellular radio module for use in other geographies worldwide. The same antenna is used with both modules.

The main printed circuit board may be mounted in two different plastic enclosures. The enclosure for the Model 26900 (serial numbers beginning with BTB) is just large enough to contain the board and is used to communicate with implantable devices using a Bluetooth Low Energy (BLE) radio.

The enclosure for the Model 26950 (serial numbers beginning with ABB) is larger and has a flip-top pocket for a hand-held telemetry reader. The telemetry reader (Model 26955, serial numbers beginning with ABR) is permanently attached to the enclosure with a 4-foot cord. The telemetry reader is used to communicate with implantable devices inductively by placing the reader over the implanted device. The cord and reader are stored in the pocket when not in use.

For radio and EMC test purposes, any version of the AC adapter may be used because they are electrically identical. The Model 26950 is considered the most comprehensive configuration. Test results using the Model 26950 (with either the US or global cellular module, as appropriate) would represent the worst-case EMC performance since it has the most complexity.

POWER SETTINGS AND ANTENNAS

The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information.

Mode of Operation:

Master Device	☐
Client Device (No radar detection)	☒
Client Device with Radar Detection	☐

ANTENNA GAIN (dBi)

Type	Provided by:	Frequency Range (MHz)	Gain (dBi)
TE Connectivity 2108964-1 Linear, surface mount	Medtronic	4900-5875	4.7

The EUT was tested using the power settings provided by the manufacturer which were based upon:

☒Test software settings
☐ Rated power settings

EUT Capabilities

This device contains the following capabilities:

- 802.11abgn
- Bluetooth Low Energy
- Cellular – LTE, GSM
- Inductive Tel A + Tel B

U-NII Band	Frequency Range	Channel Bandwidths	Channel IDs	Power Setting (dBm)
2A	5260 – 5320 MHz	20	52 - 64	15
2A		40	54 - 62	15
2A		80	58	15
2C	5500 – 5700 MHz	20	100 - 144	15
2C		40	102 – 142	15
2C		80	106 – 138	15

CONFIGURATIONS

Configuration MDTR1166-10

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
MyCareLink Home Communicator Model 26950	Medtronic, Inc	MyCareLink Home Communicator Model 26950	BTB111017i

Peripherals in Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
SMA Patch Cable	Murata	None	EQ24230010
AC/DC Adapter	Asian Power Devices Inc	WA-24BI2FU	N/A
Laptop	Dell	Latitude 5400	C0XC9Y2
Router (TP-Link)	TP-Link	Archer AX55	22172M8000656

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC/DC Adapter (Laptop)	Dell	LA65NM130	CN-0JNKWD-72438-696-4A92-A04

DFS SUPPORT EQUIPMENT AND SOFTWARE

Element has provided an Access Point for testing. The regulatory information for the Access Point is listed below.

Master (Access Point)

Manufacturer & Model	FCC ID	ISED ID
TP-Link Model Archer AX55(US)	2AXJ4AX55	Unknown

Master AP firmware version: 1.3.3

Test Software

Automated Test Software was used to generate radar and capture the corresponding emissions

Software	Version
Keysight N7607EMBCC – N7607C Signal Studio for DFS and DAA Profiles	2022 Update 1.0 (version 2.4.0.0)
Keysight N7607EMBC DFS Radar Profiles, waveform playback	2022.0725
iPerf3/2	3.19_64
ETS-Lindgren EMPower ETSI Burst Measurement System	1.0.5.6

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2025-7-25	DFS Testing - Channel Loading Channel Utilization	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	2025-7-25	DFS Testing - Closing 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	2025-7-25	DFS Testing - Move 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.
4	2025-7-25	DFS Testing - Non Occupancy Period	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

WTD 1-31-2017

INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

Overview

For a Client Device without DFS, the Channel Move Time and Channel Closing Transmission Time requirements are verified with one Short Pulse Radar and one Long Pulse Radar. Non-occupancy period can be confirmed with either short or long pulses.

Channel Closing Transmission Time: The total duration of transmissions, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time.

Channel Move Time: The time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold. A Client Device will not transmit before having received appropriate control signals from a Master Device. A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

Non-Occupancy Period: Time during which both the client and master device shall not make any transmissions on a channel after a radar signal was detected on that channel. It should at least the minimum requirements but it can be more.

Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirement for devices with multiple bandwidth modes	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

DFS Detection Thresholds for Master or Client Devices Incorporating DFS

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

DFS Response Requirement Values

Parameter	Value
Non-occupancy	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2).
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. (See Note 3).
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	(See KDB section 6.1)	60%	30
2	1 - 5	150 - 230	23 - 29	60%	30
3	6 -10	200 - 500	16 – 18	60%	30
4	11 - 20	200 - 500	12 -16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Long Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50 - 100	5 - 20	1000 - 2000	1 - 3	8 - 20	80%	30

Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

Setting the Test Signal Level

The radar test signal level is set at the Master Device, or the Client Device with In-Service Monitoring, as appropriate for the particular test. This device is known as the Radar Detection Device (RDD). The RDD consists of the applicable device and the device antenna assembly that has the lowest antenna assembly gain of all available antenna assemblies. Depending on the UUT, the following configurations exist:

- When the Master Device is the UUT, the Master Device is the RDD.
- When a Client Device without Radar Detection is the UUT, the Master Device is the RDD.
- When a Client Device with Radar Detection is the UUT, and is tested for response to the Master Device detections, the Master Device is the RDD.
- When a Client Device with Radar Detection is the UUT, and is tested for independent response to detections by the Client Device, the Client Device is the RDD.

A spectrum analyzer is used to establish the test signal level for each radar type. During this process, there are no transmissions by either the Master Device or Client Device. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz.

The signal generator amplitude and/or step attenuators are set so that the power level measured at the spectrum analyzer is equal to the DFS Detection Threshold that is required for the tests. The signal generator and attenuator settings are recorded for use during the test.

Data demonstrating that the test signal level is correctly set for each radar type (0-6) will be recorded and reported.

DFS - CHANNEL LOADING/CHANNEL UTILIZATION

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

TEST DESCRIPTION

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

The duty cycle measurement was made using a direct connection between the RF output of the EUT and a RF Power Sensor capable of 1 million samples per second. Additional spectrum analyzer screen captures were included for reference.

The master and client were connected using the conducted method described in the FCC KDB procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. A communication session was started between the client and the master using an iPerf session. The duty cycle of the EUT's transmission was measured.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2024-09-03	2025-09-03
Block - DC	Fairview Microwave	SD3379	ANH	2024-08-28	2025-08-28
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2024-08-28	2025-08-28
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAE	2024-10-10	2025-10-10
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAF	2024-10-10	2025-10-10
Directional Coupler	Fairview Microwave	MC2047-10	RGQ	2024-10-10	2025-10-10
Attenuator	Fairview Microwave	SA4014-20	AQI	2024-08-28	2025-08-28
Power Meter	ETS Lindgren	7002-008	SRA	2025-02-18	2026-02-18

DFS - CHANNEL LOADING/CHANNEL UTILIZATION

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

EUT:	MyCareLink Home Communicator Model 26950	Work Order:	MDTR1166
Serial Number:	BTB111017i	Date:	2025-07-25
Customer:	Medtronic, Inc.	Temperature:	23.1°C
Attendees:	Jed Meyer	Relative Humidity:	56%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Nolan De Ramos, Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	MDTR1166-10

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

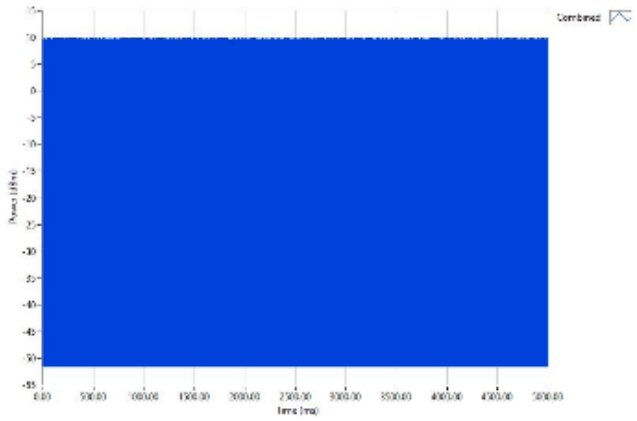
Tested By

TEST RESULTS

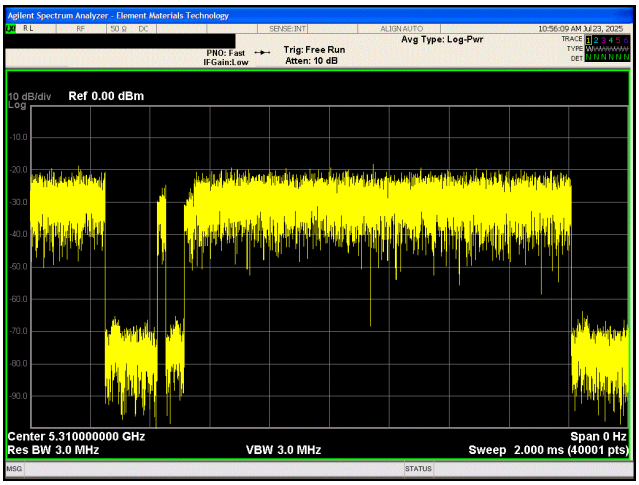
	Loading Value (%)	Limit ≥ (%)	Result
5310 MHz, 40 MHz CBW			
Duty Cycle	88.673	17	Pass
2 ms Trace	N/A	N/A	N/A
10 ms Trace	N/A	N/A	N/A
25 ms Trace	N/A	N/A	N/A
100 ms Trace	N/A	N/A	N/A
10 s Trace	N/A	N/A	N/A
30 s Trace	N/A	N/A	N/A
5550 MHz, 40 MHz CBW			
Duty Cycle	88.606	17	Pass
2 ms Trace	N/A	N/A	N/A
10 ms Trace	N/A	N/A	N/A
25 ms Trace	N/A	N/A	N/A
100 ms Trace	N/A	N/A	N/A
10 s Trace	N/A	N/A	N/A
30 s Trace	N/A	N/A	N/A

DFS - CHANNEL LOADING/CHANNEL UTILIZATION

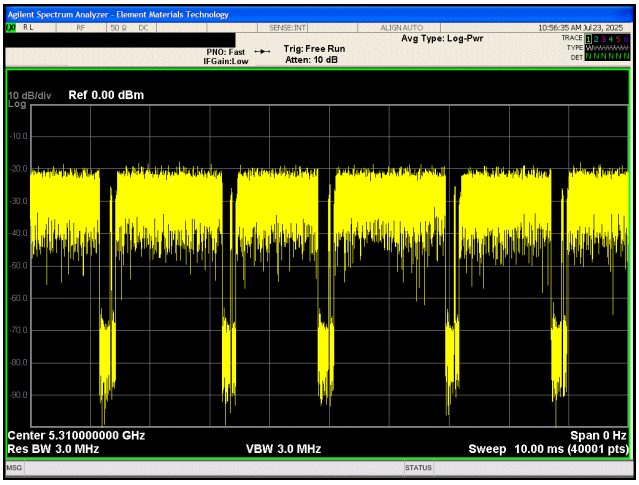
element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



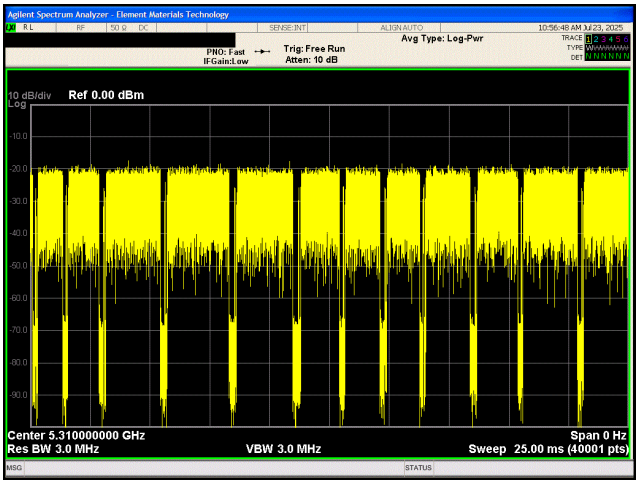
5310 MHz, 40 MHz CBW
Duty Cycle



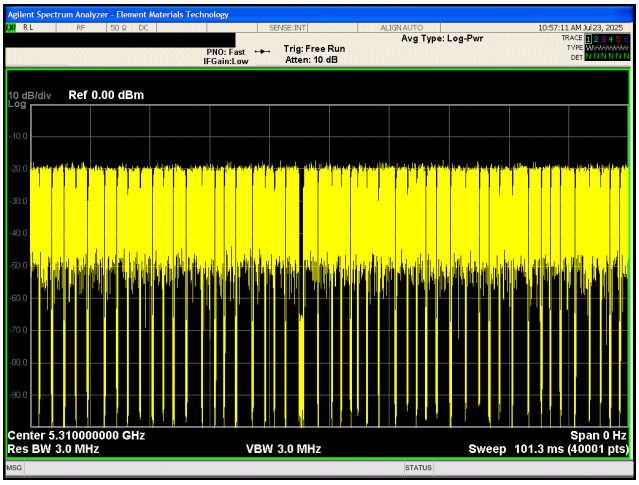
5310 MHz, 40 MHz CBW
2 ms Trace



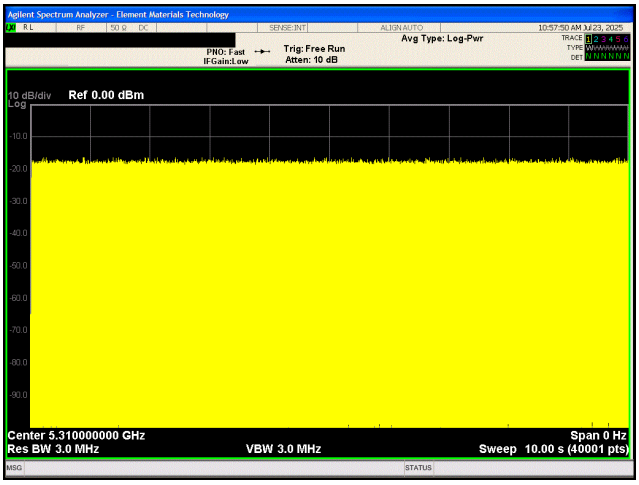
5310 MHz, 40 MHz CBW
10 ms Trace



5310 MHz, 40 MHz CBW
25 ms Trace



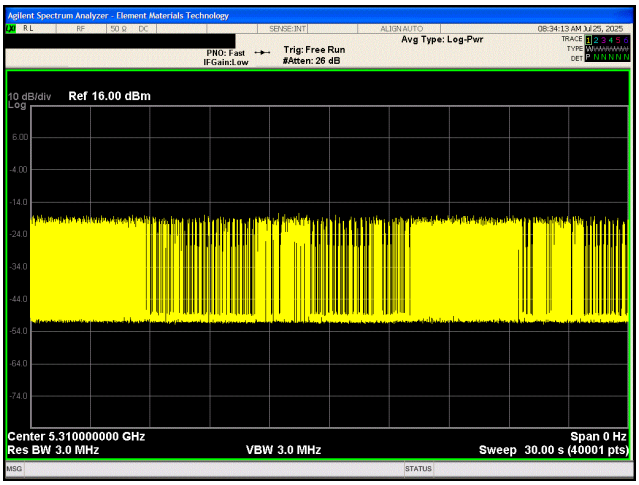
5310 MHz, 40 MHz CBW
100 ms Trace



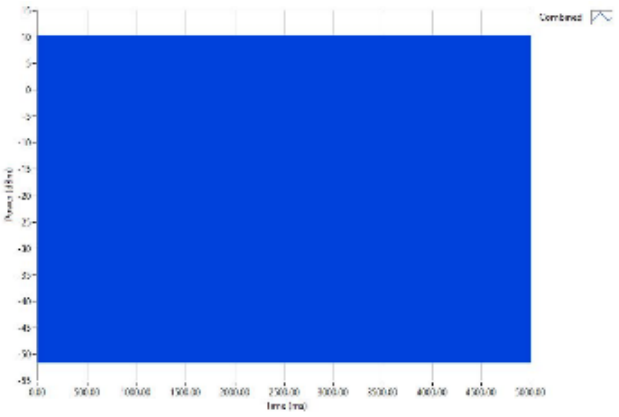
5310 MHz, 40 MHz CBW
10 s Trace

DFS - CHANNEL LOADING/CHANNEL UTILIZATION

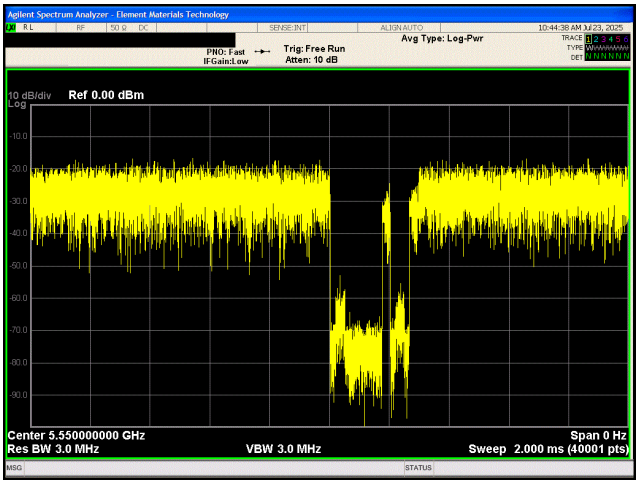
element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



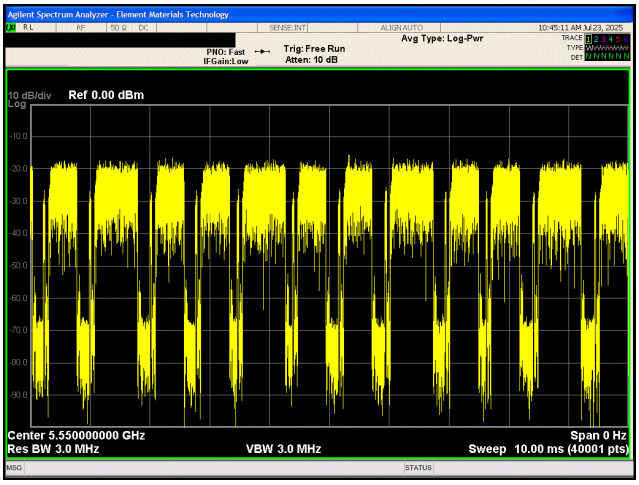
5310 MHz, 40 MHz CBW
30 s Trace



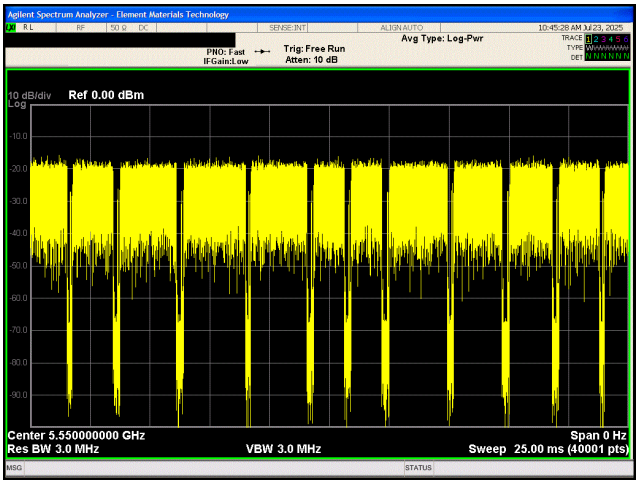
5550 MHz, 40 MHz CBW
Duty Cycle



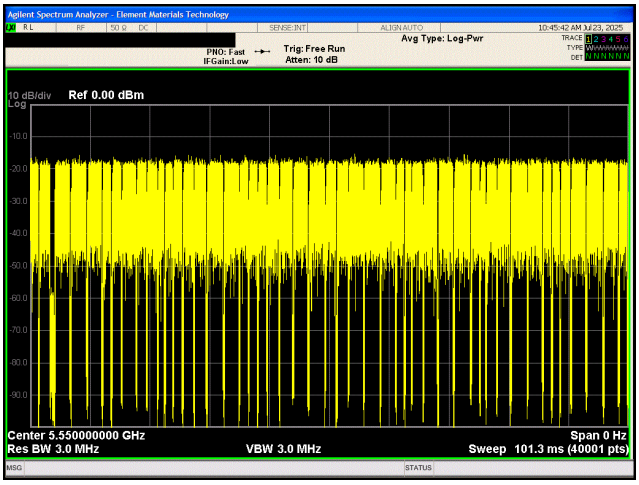
5550 MHz, 40 MHz CBW
2 ms Trace



5550 MHz, 40 MHz CBW
10 ms Trace



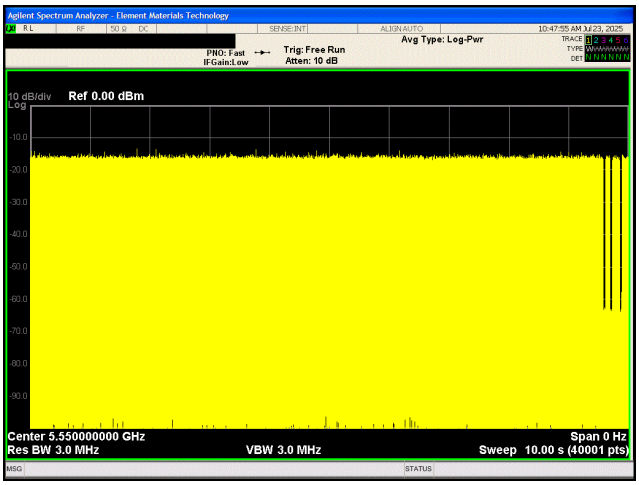
5550 MHz, 40 MHz CBW
25 ms Trace



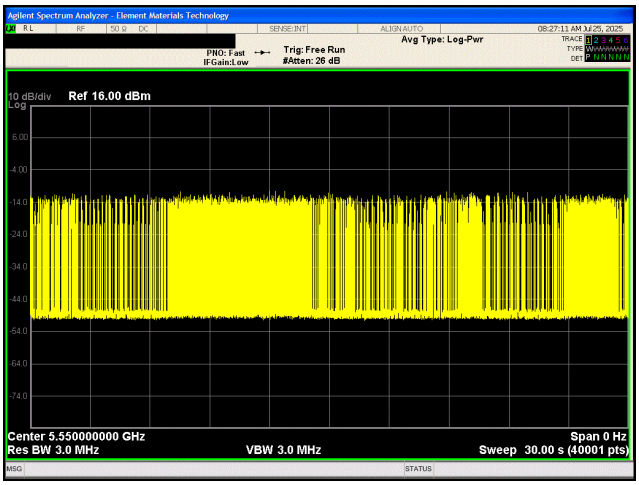
5550 MHz, 40 MHz CBW
100 ms Trace

DFS - CHANNEL LOADING/CHANNEL UTILIZATION

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



5550 MHz, 40 MHz CBW
10 s Trace



5550 MHz, 40 MHz CBW
30 s Trace

DFS - MOVE TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

TEST DESCRIPTION

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

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

The master and client were connected using the conducted method described in the FCC KDB procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. For master devices, the detection level was set prior to testing by temporarily replacing the master device with the analyzer and setting the power level according to Table 3 and Section 7.5. Where required, an approved Media file was streamed between the master and client or an alternative method to load the channel may be used instead. Channel loading requirements were also verified prior to testing. Configuration and status of the master and client devices were then monitored using the spectrum analyzer. The Move Time test was performed by starting a transmission between the master and client device, and then injecting a Radar Type 0 signal and making sure both the master and client device vacate the DFS channel within the time specified by the standard.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2024-09-03	2025-09-03
Meter - Power	ETS Lindgren	7002-008	SRA	2025-02-18	2026-02-18
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2024-08-28	2025-08-28
Block - DC	Fairview Microwave	SD3379	ANH	2024-08-28	2025-08-28
Attenuator	Fairview Microwave	SA4014-20	AQI	2024-08-28	2025-08-28
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAF	2024-10-10	2025-10-10
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAE	2024-10-10	2025-10-10
Directional Coupler	Fairview Microwave	MC2047-10	RGQ	2024-10-10	2025-10-10

DFS - MOVE TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

EUT:	MyCareLink Home Communicator Model 26950	Work Order:	MDTR1166
Serial Number:	BTB111017i	Date:	2025-07-25
Customer:	Medtronic, Inc.	Temperature:	23.1°C
Attendees:	Jed Meyer	Relative Humidity:	55.8%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Nolan De Ramos, Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	MDTR1166-10

COMMENTS

Per KDB 905462, section 5.2, the amplitude of the test signal was increased to ensure that the test signal is at or above the detection threshold levels of the Master Device to trigger a DFS response.
Because the duty cycle of the communication was variable, the utilization was confirmed to be above 17% at the same time that the interference signal was introduced using a power meter capable of 5 million samples per second.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

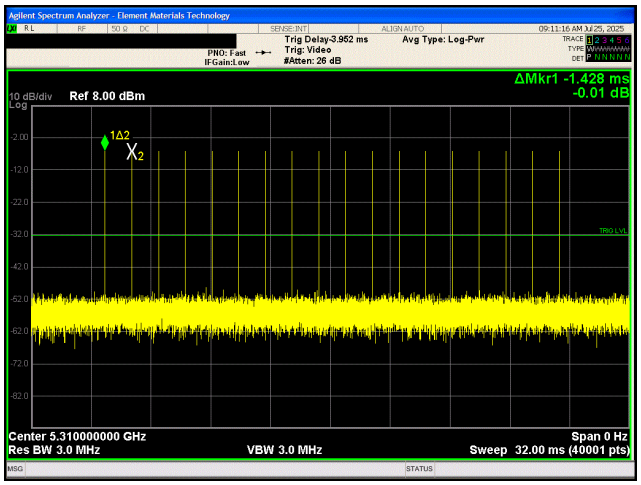
Tested By

TEST RESULTS

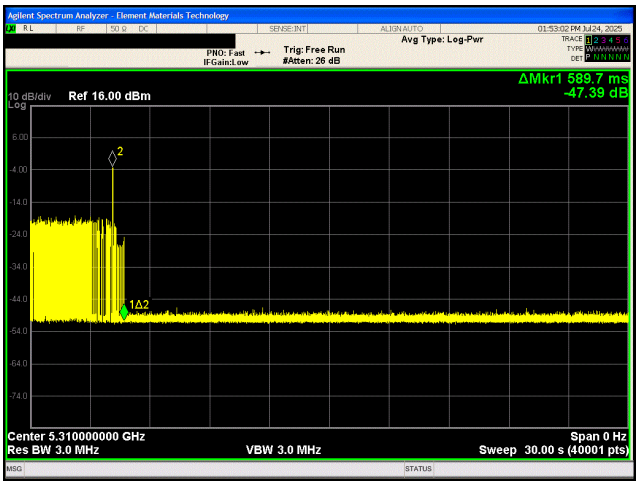
	Value (ms)	Limit (ms)	Result
5310 MHz, 40 MHz CBW			
Interference Signal	N/A	N/A	N/A
Move Time	589.7	10000	Pass
5550 MHz, 40 MHz CBW			
Interference Signal	N/A	N/A	N/A
Move Time	549	10000	Pass

DFS - MOVE TIME

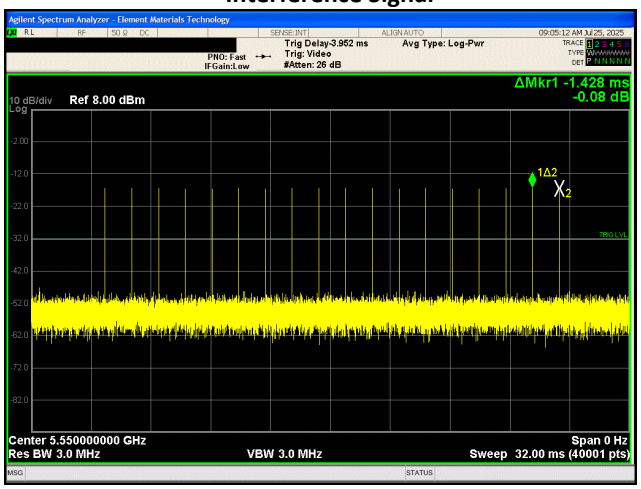
element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



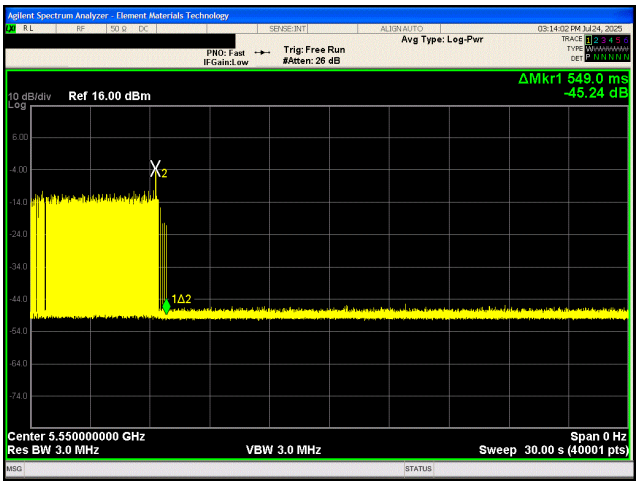
5310 MHz, 40 MHz CBW
Interference Signal



5310 MHz, 40 MHz CBW
Move Time



5550 MHz, 40 MHz CBW
Interference Signal



5550 MHz, 40 MHz CBW
Move Time

DFS - CLOSING TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

TEST DESCRIPTION

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

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

The master and client were connected using the conducted method described in the FCC KDB procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. For master devices, the detection level was set prior to testing by temporarily replacing the master device with the analyzer and setting the power level according to Table 3 and Section 7.5. Where required, an approved Media file was streamed through the master and client or an alternative method to load the channel may be used instead. Channel loading requirements were also verified prior to testing. Configuration and status of the master and client devices were then monitored using the spectrum analyzer. The Closing Time test was performed by starting a transmission between the master and client device, and then injecting a Radar Type 0 signal. All transmission signals between the master and client in the first 200mS are allowed. After this time period, the number of transmissions signals are counted and multiplied by the pulse width value(s). This aggregate is then added to the 200mS allowance for the final value and compared to the specified limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2024-09-03	2025-09-03
Meter - Power	ETS Lindgren	7002-008	SRA	2025-02-18	2026-02-18
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2024-08-28	2025-08-28
Block - DC	Fairview Microwave	SD3379	ANH	2024-08-28	2025-08-28
Attenuator	Fairview Microwave	SA4014-20	AQI	2024-08-28	2025-08-28
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAE	2024-10-10	2025-10-10
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAF	2024-10-10	2025-10-10
Directional Coupler	Fairview Microwave	MC2047-10	RGQ	2024-10-10	2025-10-10

DFS - CLOSING TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

EUT:	MyCareLink Home Communicator Model 26950	Work Order:	MDTR1166
Serial Number:	BTB111017i	Date:	2025-07-25
Customer:	Medtronic, Inc.	Temperature:	23.2°C
Attendees:	Jed Meyer	Relative Humidity:	54.6%
Customer Project:	None	Bar. Pressure (PMSL):	1017 mbar
Tested By:	Nolan De Ramos, Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	MDTR1166-10

COMMENTS

The closing time was calculated using the tabular data from the power probe. Using the move time measurement measured in this report, the total on time of all pulses after the allowable 200ms was calculated. This aggregate is then added to the 200ms allowance for the final value and compared to the specified limit.
The red line on the power probe measurements is a time marker indicating the lower bounds of the transmit time summation (after the 200ms window had elapsed).

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

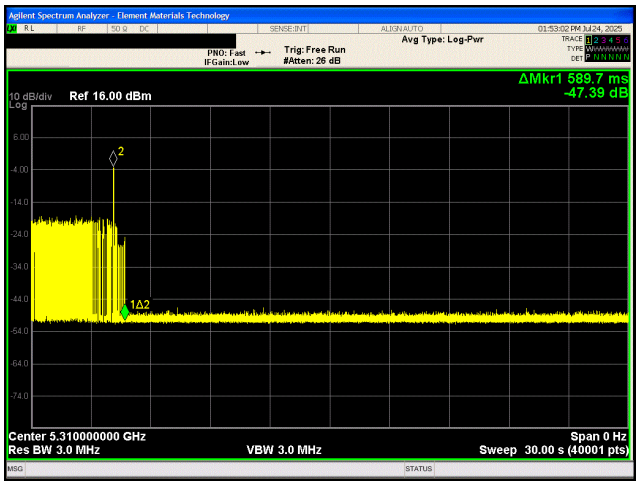
Tested By

TEST RESULTS

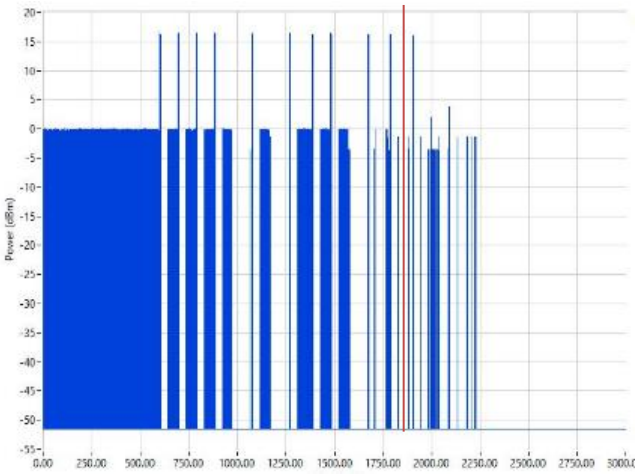
	Allowed Time (ms)	On Time after 200ms (ms)	Total Time (ms)	Limit ≤ (ms)	Result
5310 MHz, 40 MHz CBW					
Closing Time	N/A	N/A	N/A	N/A	N/A
Closing Time (Power Probe)	200	23.5346	223.5346	260	Pass
5550 MHz, 40 MHz CBW					
Closing Time	N/A	N/A	N/A	N/A	N/A
Closing Time (Power Probe)	200	6.7084	206.7084	260	Pass

DFS - CLOSING TIME

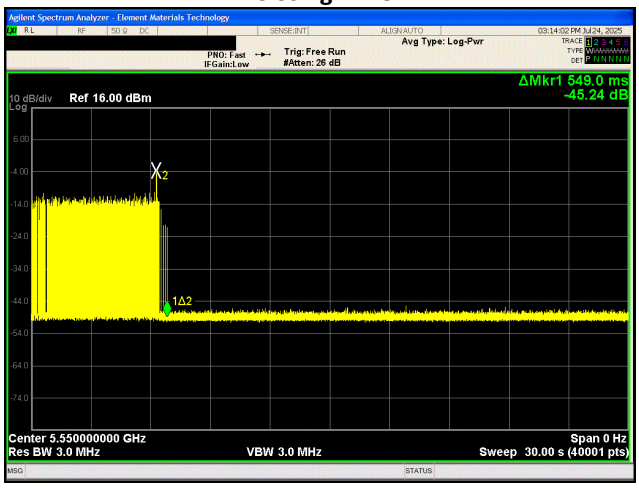
element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



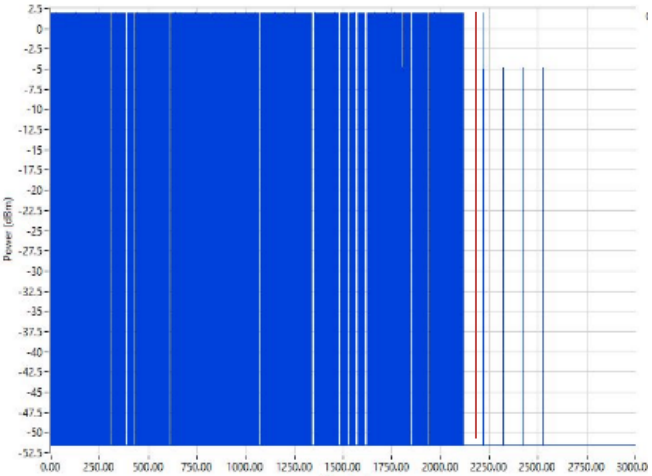
5310 MHz, 40 MHz CBW
Closing Time



5310 MHz, 40 MHz CBW
Closing Time (Power Probe)



5550 MHz, 40 MHz CBW
Closing Time



5550 MHz, 40 MHz CBW
Closing Time (Power Probe)

DFS - NON-OCCUPANCY TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

TEST DESCRIPTION

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

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

The master and client were connected using the conducted method described in the FCC KDB procedure via a series of splitters and attenuators which allows the communication and injected radar signals to be monitored simultaneously. The spectrum analyzer was configured to sweep the frequency for at least 30 minutes. A Radar Type 0 signal was injected and the channel was monitored to make sure the master and client devices vacated the channel and did not use it again for a period of time equal to or greater than 30 minutes.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFX	2023-05-14	2026-05-14
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2024-09-03	2025-09-03
Meter - Power	ETS Lindgren	7002-008	SRA	2025-02-18	2026-02-18
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAE	2024-10-10	2025-10-10
Power Divider/Combiner	Fairview Microwave	MP0208-2	IAF	2024-10-10	2025-10-10
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2024-08-28	2025-08-28
Block - DC	Fairview Microwave	SD3379	ANH	2024-08-28	2025-08-28
Attenuator	Fairview Microwave	SA4014-20	AQI	2024-08-28	2025-08-28
Directional Coupler	Fairview Microwave	MC2047-10	RGQ	2024-10-10	2025-10-10

DFS - NON-OCCUPANCY TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0

EUT:	MyCareLink Home Communicator Model 26950	Work Order:	MDTR1166
Serial Number:	BTB111017i	Date:	2025-07-25
Customer:	Medtronic, Inc.	Temperature:	23.1°C
Attendees:	Jed Meyer	Relative Humidity:	56%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Nolan De Ramos, Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	MDTR1166-10

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

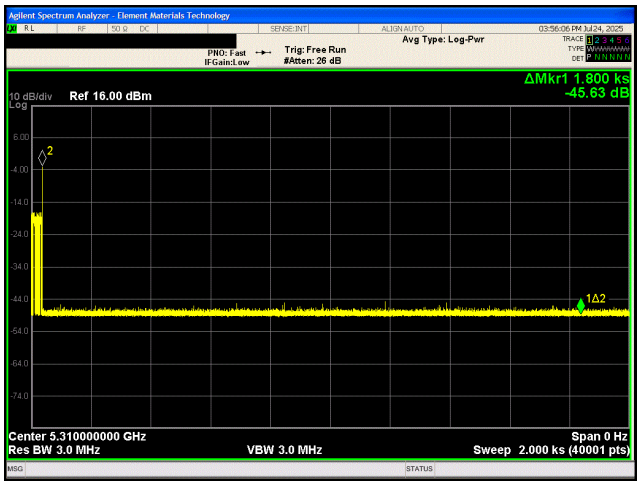
Tested By

TEST RESULTS

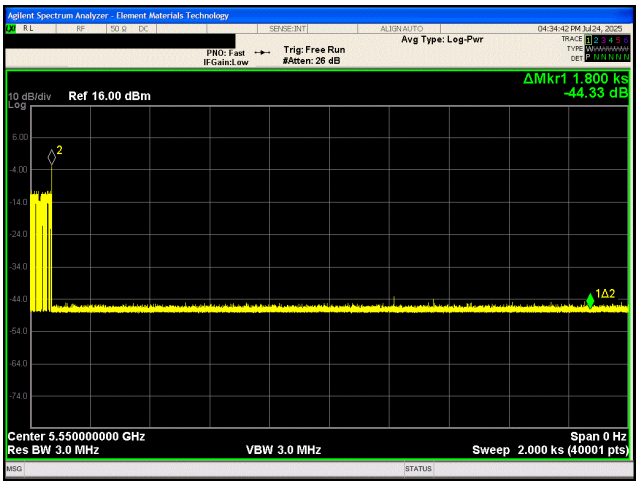
	Value (min)	Limit ≥ (min)	Result
5310 MHz, 40 MHz CBW			
Non-Occupancy Time	≥ 30	30	Pass
5550 MHz, 40 MHz CBW			
Non-Occupancy Time	≥ 30	30	Pass

DFS - NON-OCCUPANCY TIME

element
TbtTx 2025.05.09.1
WTD.2025.03.25.0



5310 MHz, 40 MHz CBW
Non-Occupancy Time



5550 MHz, 40 MHz CBW
Non-Occupancy Time

APPENDIX

Rev 1-31-2017

DFS PRODUCT INFORMATION

Information Provided by the Party Requesting the Test

Section 1
The following information must be provided prior to the start of testing:

List all antenna assemblies and their corresponding gains.

1. If radiated tests are to be performed, the U-NII Device should be tested with the lowest gain antenna assembly (regardless of antenna type). The report should indicate which antenna assembly was used for the tests. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
2. If conducted tests are to be performed, indicate which antenna port/connection was used for the tests and the antenna assembly gain that was used to set the DFS Detection Threshold level during calibration of the test setup.
    a. Indicate the calibrated conducted DFS Detection Threshold level.
    b. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
    c. Indicate the antenna connector impedance. Ensure that the measurement instruments match (usually 50 Ohms) or use a minimum loss pad and take into account the conversion loss.
3. Antenna gain measurement verification for tested antenna.
    a. Describe procedure
    b. Describe the antenna configuration and how it is mounted
    c. If an antenna cable is supplied with the device, cable loss needs to be taken into account. Indicate the maximum cable length and either measure the gain with this cable or adjust the measured gain accordingly. State the cable loss.

The client device (EUT) has one dual band PCB antenna. The antenna assembly gain of the client device is 4.7 dBi in the 5 GHz bands.

Functional Description of the EUT (Equipment Under Test):

Bedside monitor with dual-band Wi-Fi (802.11 a/b/g/n 1x1 SISO), BLE, Cellular LTE/GSM, and inductive Tel A + Tel B.

The operating modes (Master and/or Client) of the U-NII device.

Client with both 802.11a and 802.11n, 20 and 40 MHz BW.

For Client devices, indicate whether or not it has DFS Radar detection capabilities.

The device is a client device and has no radar detection.

System architectures, data rates, U-NII Channel bandwidths.

1. Indicate the type(s) of system architecture (e.g. IP based or Frame based) that the U-NII device employs. Each type of unique architecture must be tested.

The client device (EUT) employs IP based system architecture.

Applicable only to devices with Radar detection capabilities: The time required for the Master Device or Client Device (with radar detection) to complete its power-on cycle.

Not Applicable

DFS PRODUCT INFORMATION

Section 2

The following information must be provided prior to the completion of a test report:

Hardware, Firmware, and OS Versions:
Hardware version: Rev E Radio Firmware version: SDIW416---16.92.21.p149.4-MM6X16505.p23-(FP92) Non-Radio Firmware Version: android-13.0.0_2.2.0-rc2(1.2.970) Software Version: iperf v3.19_64

The operating frequency band(s) of the equipment.
UNII-1, UNII-2A, UNII-2C, and UNII-3 (5150.0–5250.0 MHz, 5250.0–5350.0 MHz, 5470.0-5725 MHz, and 5725.0 - 5850.0 MHz)

List the highest and the lowest possible power level (equivalent isotropic radiated power (EIRP) of the equipment.
The maximum output power of the 5 GHz equipment was measured at 15.0 dBm conducted. The minimum power measured was 11.5 dBm. Power settings vary by channel and modulation, but are fixed in firmware.

Test sequences or messages that should be used for communication between Master and Client Devices, which are used for loading the Channel. 1. Stream the test file from the Master Device to the Client Device for IP based systems or frame based systems which dynamically allocate the talk/listen ratio. 2. For frame based systems with fixed talk/listen ratio, set the ratio to 45%/55% and stream the test file from the Master to the Client. 3. For other system architectures, supply appropriate Channel loading methodology.
Testing was performed with an iperf session passing data between the EUT and a laptop over a local network.

Transmit Power Control description.
This device does not exceed 500 mW EIRP, so no transmit power control is implemented.

Applicable only to devices with Radar detection capabilities: Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.
Not Applicable

Applicable only to Master devices: Uniform Channel Spreading requirement for Master Devices. For Master Devices, indicate how the master provides, on aggregate, uniform Channel loading of the spectrum across all Channels.
Not Applicable

For Client devices, indicate the FCC (and IC) identifier for the Master U-NII Device that is used with it for DFS testing.
A DFS-compliant Master device was used for testing. The device used was a TP-Link Model Archer AX55(US), FCC ID:2AXJ4AX55

End of Test Report