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EMISSIONS TEST REPORT

SCOPE OF WORK
Emissions Testing (FCC Class II Permissive Change) on Ominipod 5 Automated Insulin Delivery System, Model PT-000438 With Alternate Booster Chip

REPORT NUMBER
105595039BOX-006

ISSUE DATE
November 8, 2023

[REVISED DATE]
Original Issue

DOCUMENT CONTROL NUMBER
Non-Specific Radio Report Shell Rev. October 2022

EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 105595039BOX-006
Project Number: G105595039

Report Issue Date: November 8, 2023

Model(s) Tested: PT-000438
Model(s) Partially Tested: None
Model(s) Not Tested but declared equivalent by the client: None

Standards: CFR47 FCC Part 15.247 Subpart C: 10/2023,
CFR47 FCC Part 15 Subpart B: 10/2023,
RSS-247 Issue 2 February 2017,
ISED ICES-003 Issue 7 October 2020,
RSS-Gen Issue 5 April 2018,
KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019

Tested by:
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
Insulet Corporation
100 Nagog Park
Acton, MA 01720 USA

Report prepared by

Kouma Sinn / Sr. EMC Staff Engineer

Report reviewed by

Vathana Ven / Sr. EMC Staff Engineer

Table of Contents

1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	--
4	Description of Equipment Under Test and Variant Models	--
5	System Setup and Method	---
6	Maximum Peak Output Power CFR47 FCC Part 15 Subpart C: 10/2023, Section 15.247 (b)(3) RSS-247 Issue 2 February 2017	Pass
7	Band Edge Compliance CFR47 FCC Part 15 Subpart C: 10/2023, Section 15.247 (d) RSS-247 Issue 2: 02/2017)	Pass
8	Transmitter spurious emissions CFR47 FCC Part 15 Subpart C: 10/2023, Section 15.247 (d) RSS-247 Issue 2 February 2017	Pass
9	Revision History	--

3 Client Information

This EUT was tested at the request of:

Client: Insulet Corporation
100 Nagog Park
Acton, MA 01720
USA

Contact: Rachel Zhang
Telephone: 978.600.7000
Email: rozhang@insulet.com

4 Description of Equipment Under Test and Variant Models

Manufacturer:

Insulet Corporation
100 Nagog Park
Acton, MA 01720
USA

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	303[1]
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	307[1]
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	311[1]
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	302[2]
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	304[2]
Ominipod 5 Automated Insulin Delivery System	Insulet Corporation	PT-000438	304[2]

[1]Samples used for radiated emissions, Low Channel: 303, Mid Channel: 307, High Channel: 311

[2]Samples used for conducted output power, Low Channel: 302, Mid Channel: 306, High Channel: 309

Receive Date:	10/21/2023
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)
Ominipod 5 Automated Insulin Delivery System with Alternate Booster Chip

Intended Environment & Emissions Class	
Use Environment	Basic
Class	B

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
4.5 V (3 x 1.5 V Batteries)	120 mAhr per battery	DC	N/A

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Pre-programmed to transmit at low, mid, and high channels

Software used by the EUT:

No.	Descriptions of EUT Exercising
1	None

Highest Clock frequency in EUT: 2.4 GHz

Variant Models:

The following variant models were not tested as part of this evaluation; but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

Radio/Receiver Characteristics	
Frequency Band(s)	2402-2480 MHz
Modulation Type(s)	GFSK
Maximum Output Power	Low Channel (2402 MHz): 0.75 dBm (Conducted Power) Mid Channel (2440 MHz): 0.68 dBm (Conducted Power) High Channel (2480 MHz): 0.85 dBm (Conducted Power)
Test Channels	Low Channel: 2402 MHz Mid Channel: 2440 MHz High Channel: 2480 MHz
Frequency Hopper: Number of Hopping Channels	N/A
Frequency Hopper: Channel Dwell Time	N/A
Frequency Hopper: Max interval between two instances of use of the same channel	N/A
MIMO Information (# of Transmit and Receive antenna ports)	N/A
Equipment Type	Standalone
Antenna Type and Gain	Integral antenna, Gain: 1.5 dBi

5 System Setup and Method

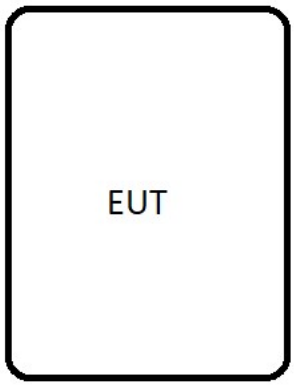
Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
--	None	--	--	--	--

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
None	--	--	--

5.1 Method:

Configuration as required by CFR47 FCC Part 15.247 Subpart C: 10/2023, CFR47 FCC Part 15 Subpart B: 10/2023, RSS-247 Issue 2 February 2017, ISED ICES-003 Issue 7 October 2020, RSS-Gen Issue 5 April 2018, KDB 558074 D01 15.247 Meas Guidance v05r02: 04/2019, ANSI C63.10-2013, and ANSI C63.4: 2014.

5.2 EUT Block Diagram:



6 Maximum Peak Output Power

6.1 Method

Tests are performed in accordance with CFR47 FCC Part 15.247, RSS-247, ANSI C63.10, and KDB 558074 D01.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.9 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	4.5 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.4 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.8 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	4.8 dB	N/A

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG
Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB/m
AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 52.0 dBμV
AF = 7.4 dB/m
CF = 1.6 dB
AG = 29.0 dB
FS = 32 dBμV/m

To convert from dBμV to μV or mV the following was used:

UF = $10^{(NF / 20)}$ where UF = Net Reading in μV
NF = Net Reading in dBμV

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0
UF = $10^{(32\ dB\mu V / 20)}$ = 39.8 μV/m

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

6.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	03/27/2023	03/27/2024
CEN001'	DC-40GHz attenuator 20dB	Centric RF	C411-20	CEN001	02/28/2023	02/28/2024
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Shwartz	FSW43	100646	11/18/2022	11/18/2023
CBLHF2012-2M-2'	2m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252675002	02/18/2023	02/18/2024

Software Utilized:

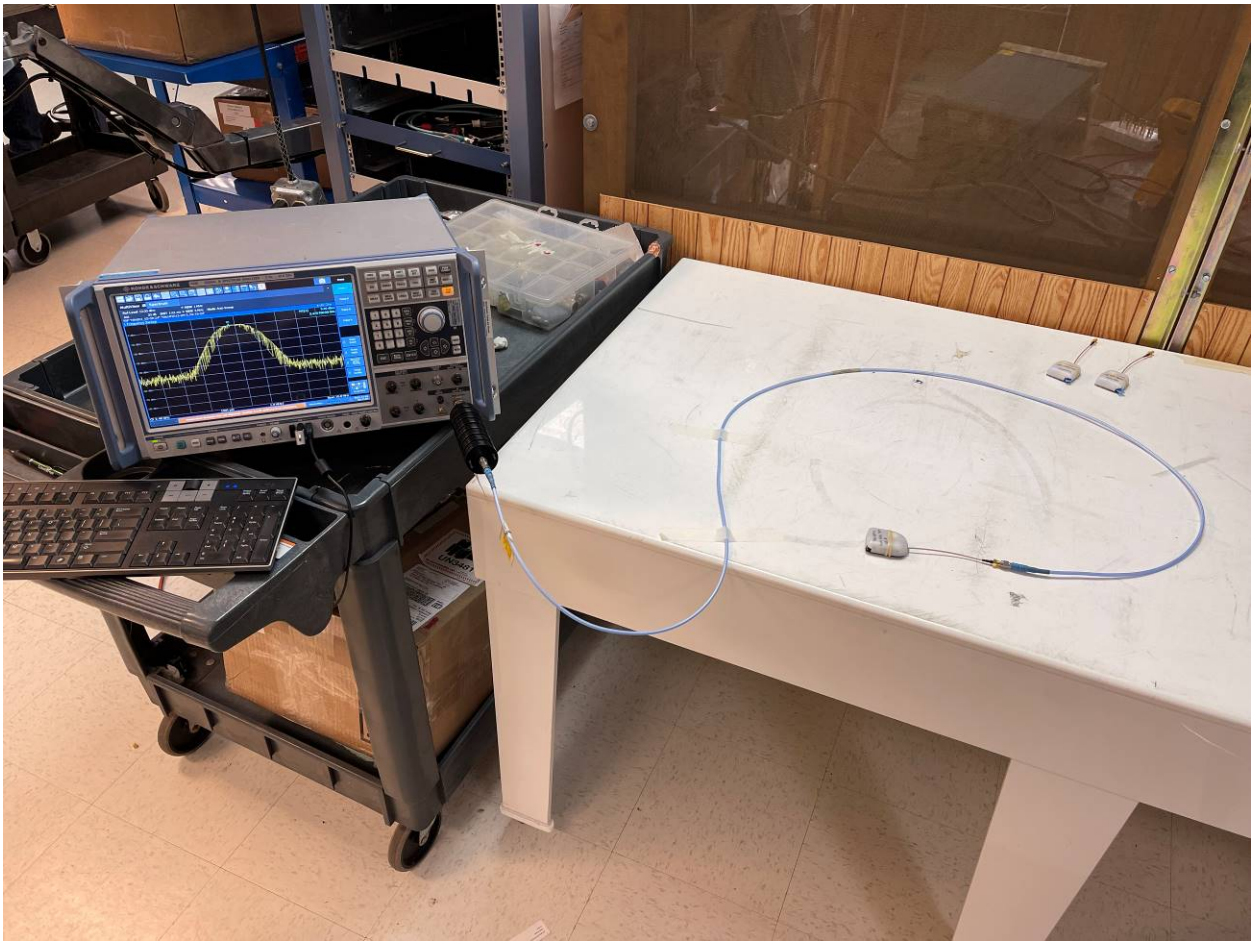
Name	Manufacturer	Version
None	--	--

6.3 Results:

The sample tested was found to Comply.

Limits – FCC Part §15.247 (b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt or 30 dBm.

6.4 Setup Photograph:



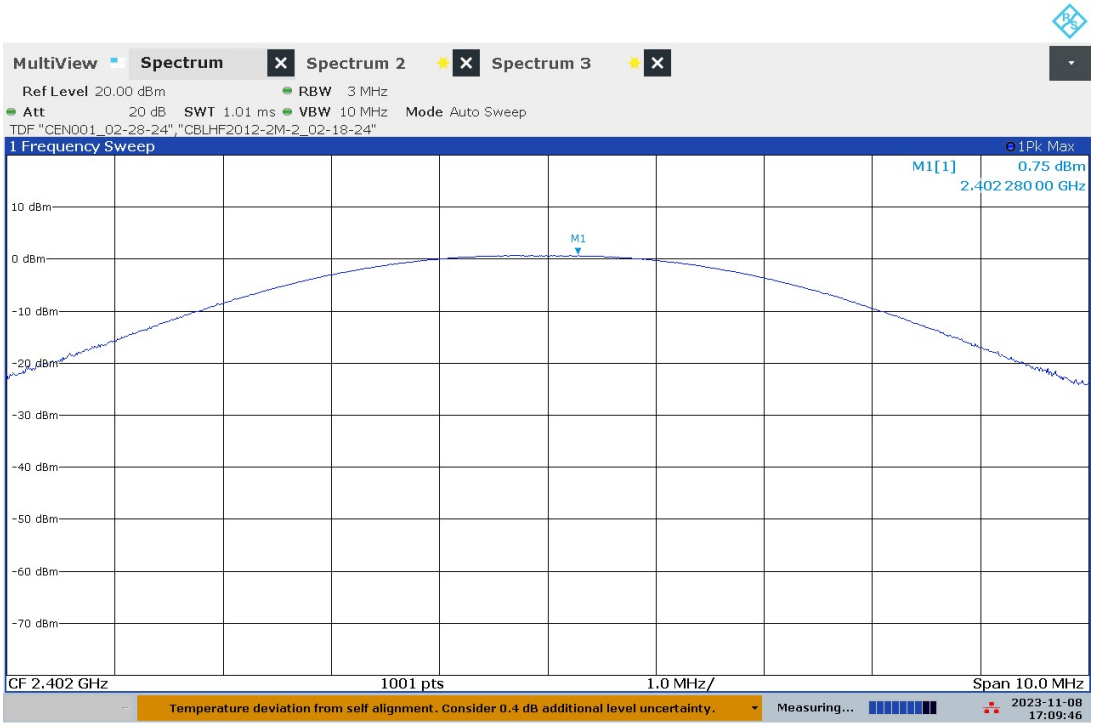
6.5 Test Data:

Conducted Output Power

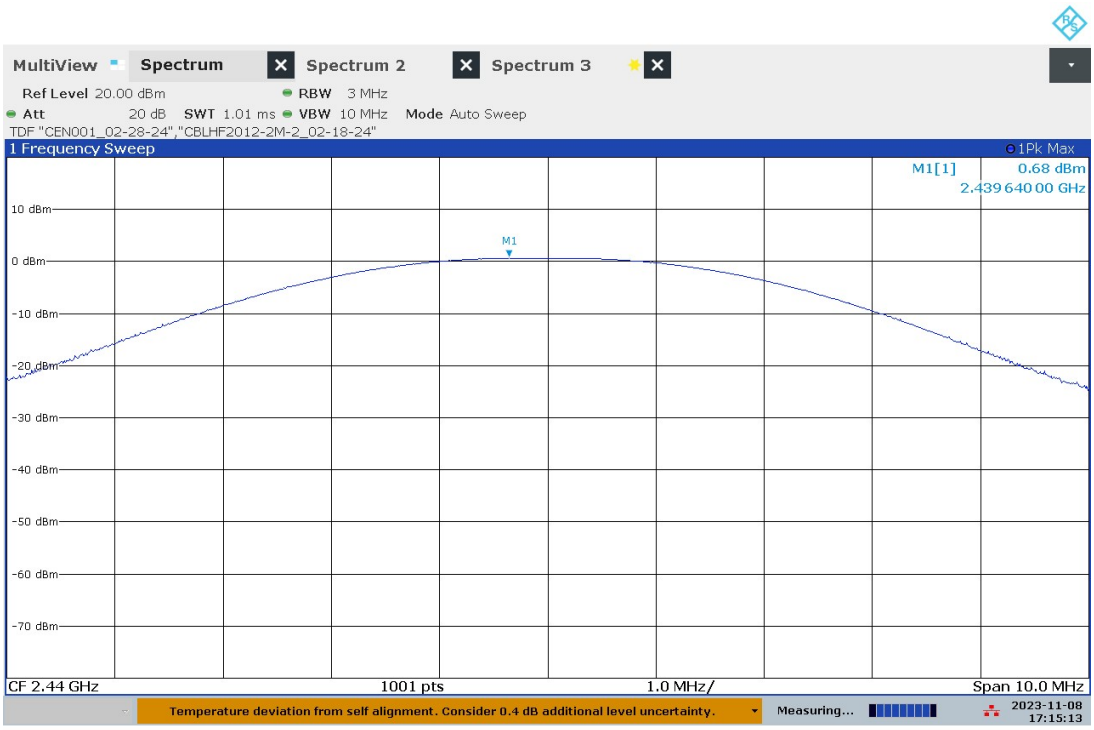
Channels	Conducted Output Power (dBm)
Low Channel – 2402 MHz	0.75
Mid Channel – 2440 MHz	0.68
High Channel – 2480 MHz	0.85

Notes: Cable loss and attenuator were compensated internally in spectrum analyzer.

Low Channel Conducted Power

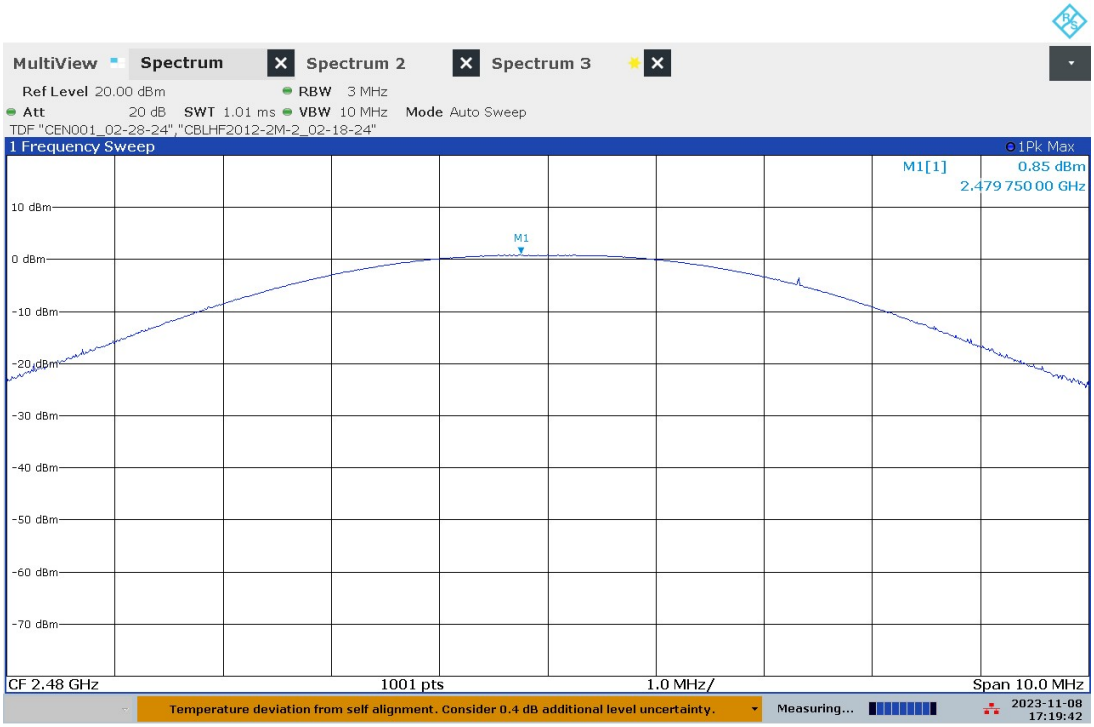


Mid Channel Conducted Power



05:15:13 PM 11/08/2023

High Channel Conducted Power



05:19:42 PM 11/08/2023

Product Standard: CFR47 FCC Part 15.247 & RSS-247				Limit applied: See Report Section 6.3 Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
11/08/2023	Kouma Sinn KPS	N/A	Internal Battery	Continuous Transmitting	24	18	1019

Deviations, Additions, or Exclusions: None

7 Band Edge Compliance

7.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C 15.247, RSS 247, ANSI C 63.10, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	5.0 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	4.6 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.9 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.1 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.7 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	4.7 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG
Where FS = Field Strength in dBμV/m
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CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 52.0 dBμV
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To convert from dBμV to μV or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μV
NF = Net Reading in dBμV

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0
$UF = 10^{(32\ dB\mu V / 20)}$ = 39.8 μV/m

Alternately, when BAT-EMC Emission Software is used, the “Level” includes all losses and gains and is compared directly in the “Margin” column to the “Limit”. The “Correction” includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the “Level” column.

7.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	02/21/2023	02/21/2024
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	10/16/2023	10/16/2024
ROS011'	EMI Test Receiver	Rohde & Schwartz	ESW44	103296	06/28/2023	06/28/2024
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/18/2023	02/18/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	02/18/2023	02/18/2024

Software Utilized:

Name	Manufacturer	Version
None	--	--

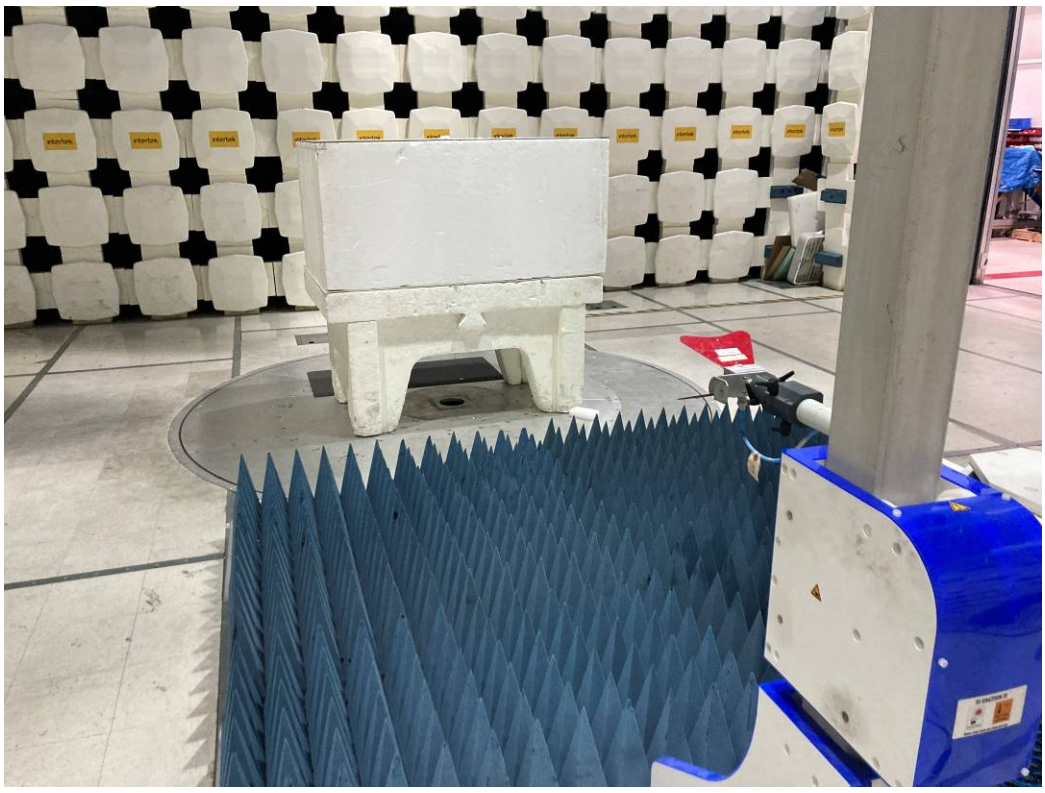
7.3 Results:

The sample tested was found to Comply.

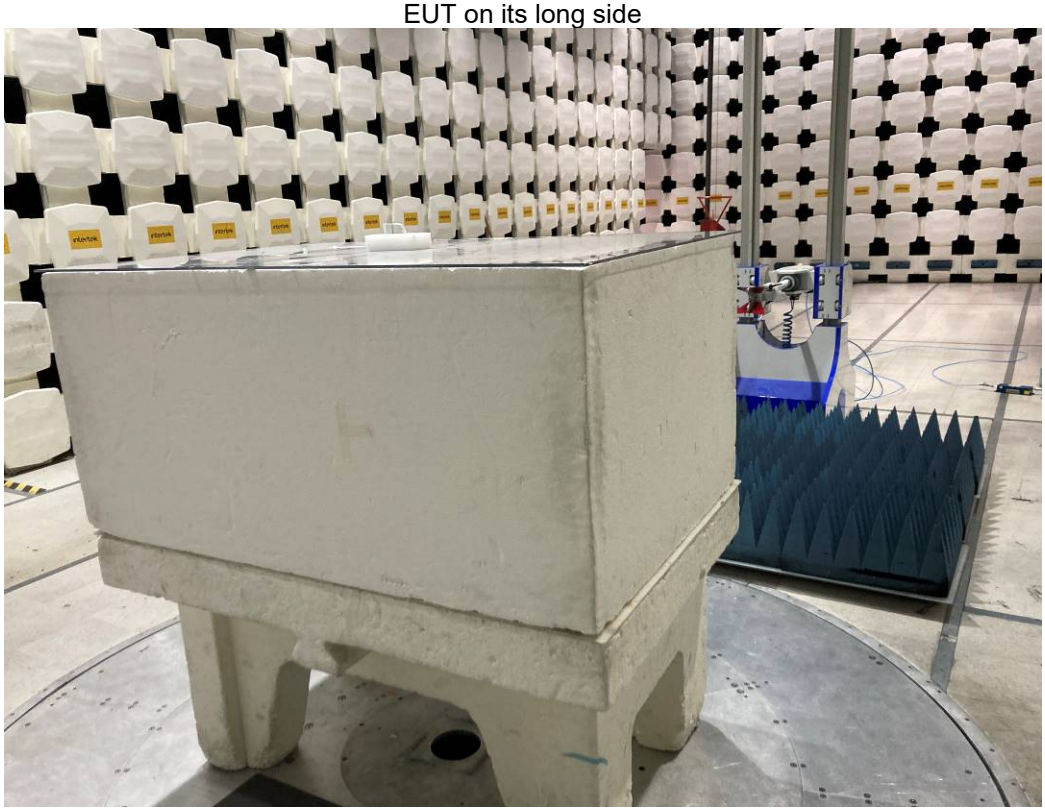
Limits – FCC Part §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

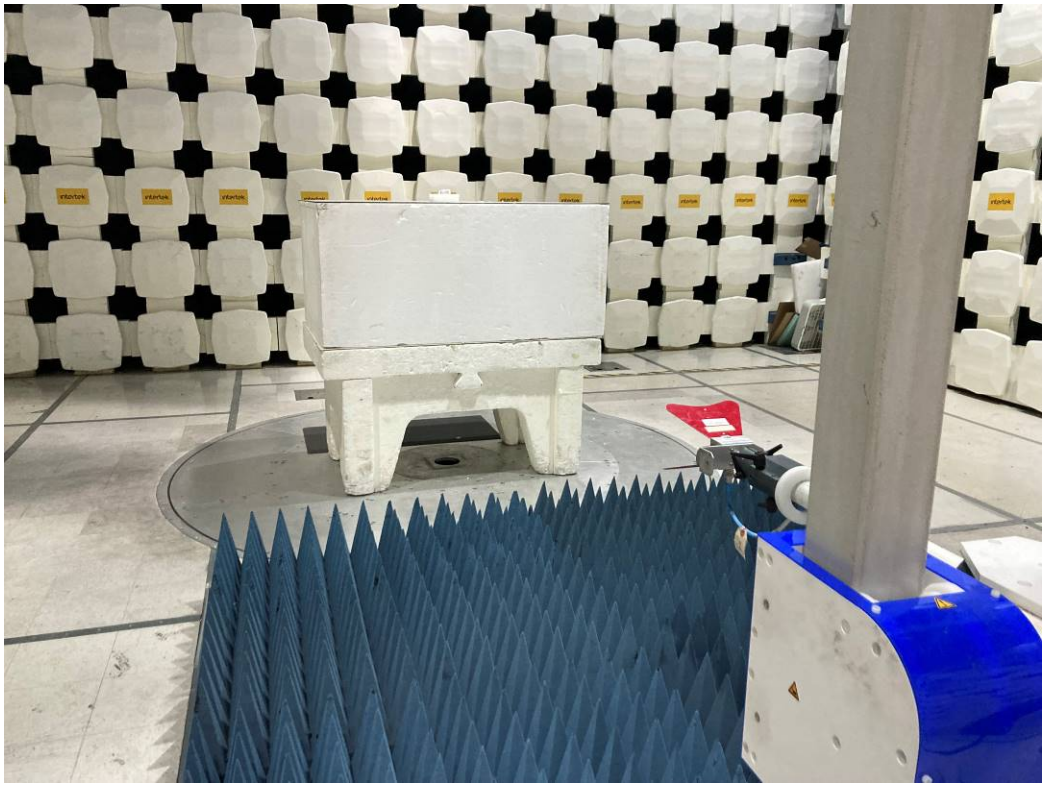
7.4 Setup Photographs:

EUT on its back

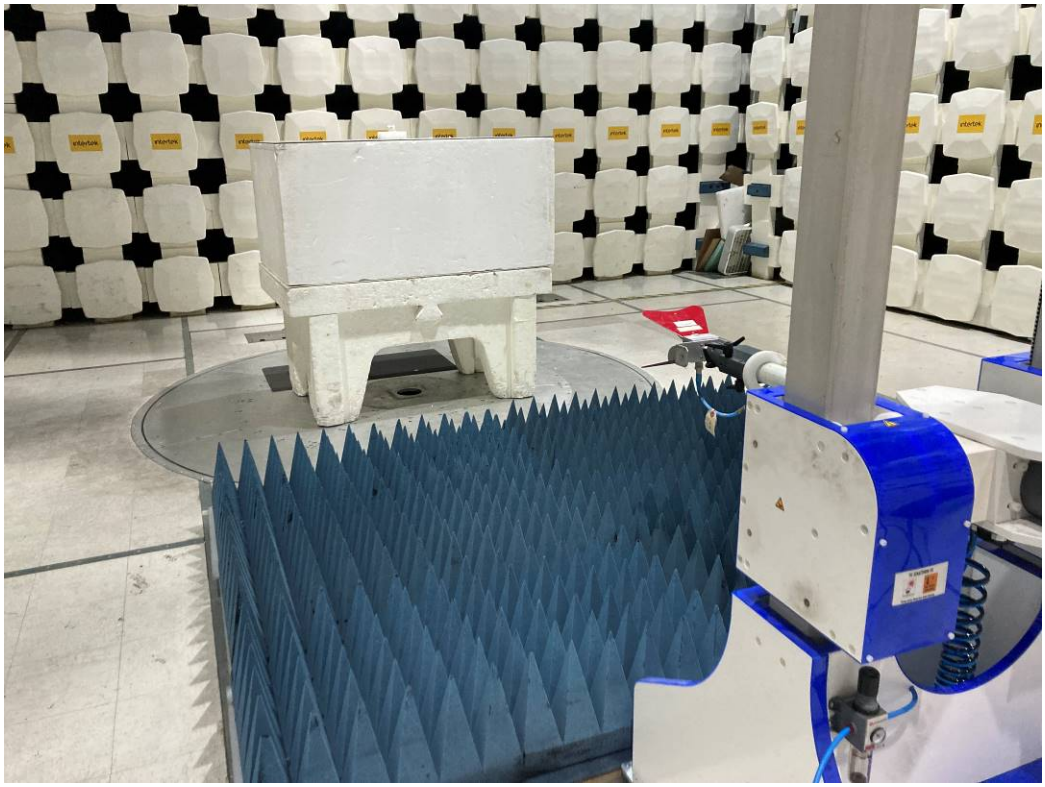


EUT on its long side





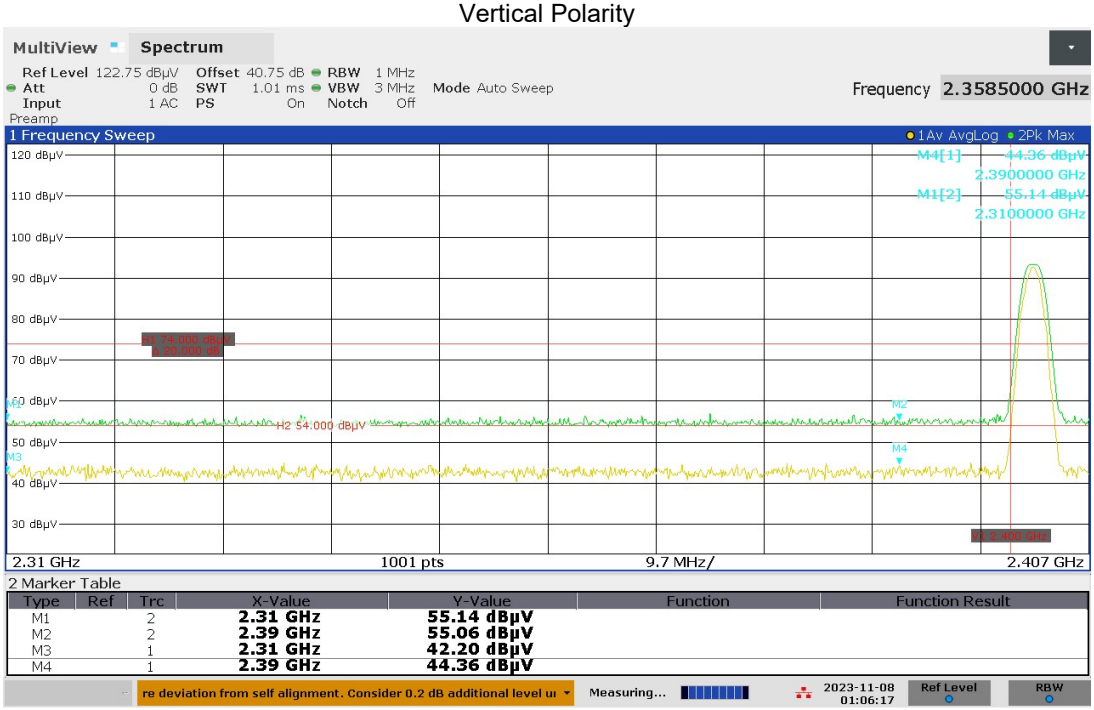
EUT on its short side



7.5 Test Data:

Lower Band Edge, Peak Readings Compared to Peak Limit (FCC 15.209), 74 dBµV/m
Lower Band Edge, Average Readings Compared to Average Limit (FCC 15.209), 54 dBµV/m

Vertical Polarity



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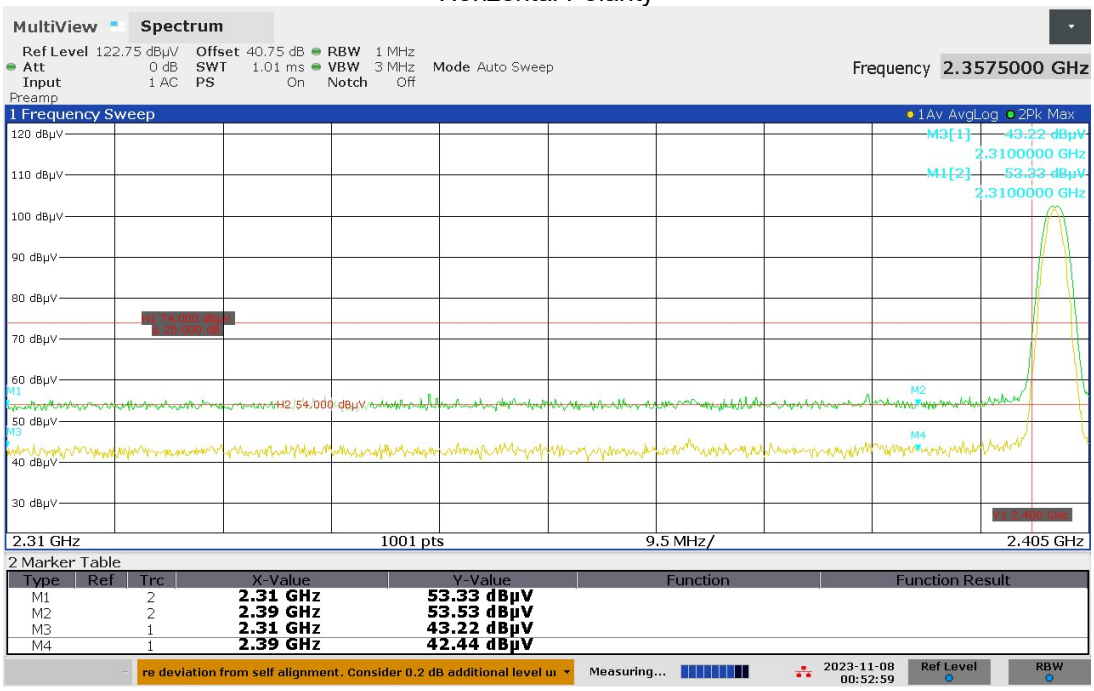
Horizontal Polarity

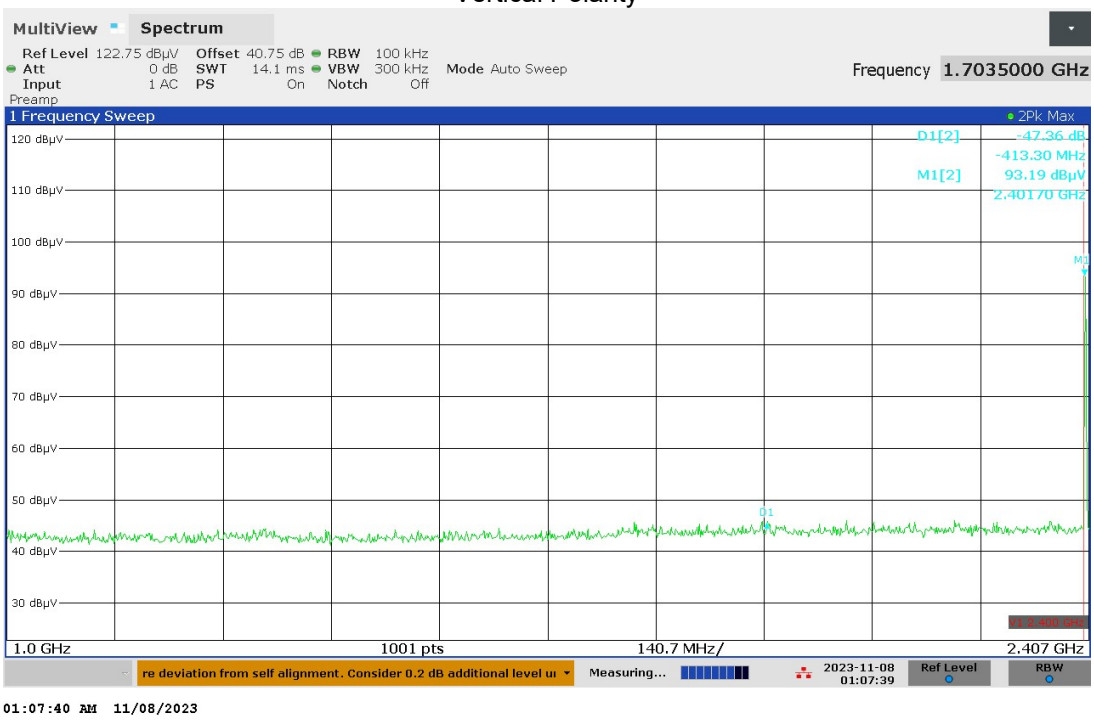


12:53:00 AM 11/08/2023

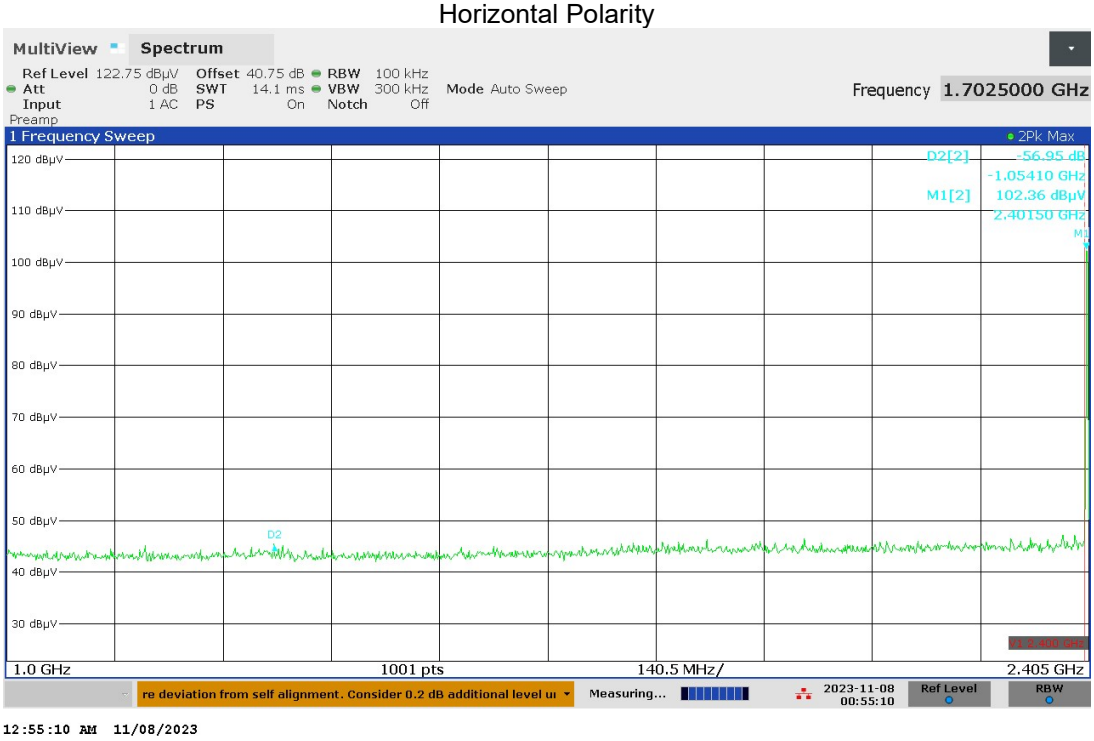
Notes: The antenna factor and cable loss were internally compensated as dB off-set.

Lower Band Edge – Peak Readings Compared to 20 dBc limit (FCC 15.247 (d))

Vertical Polarity



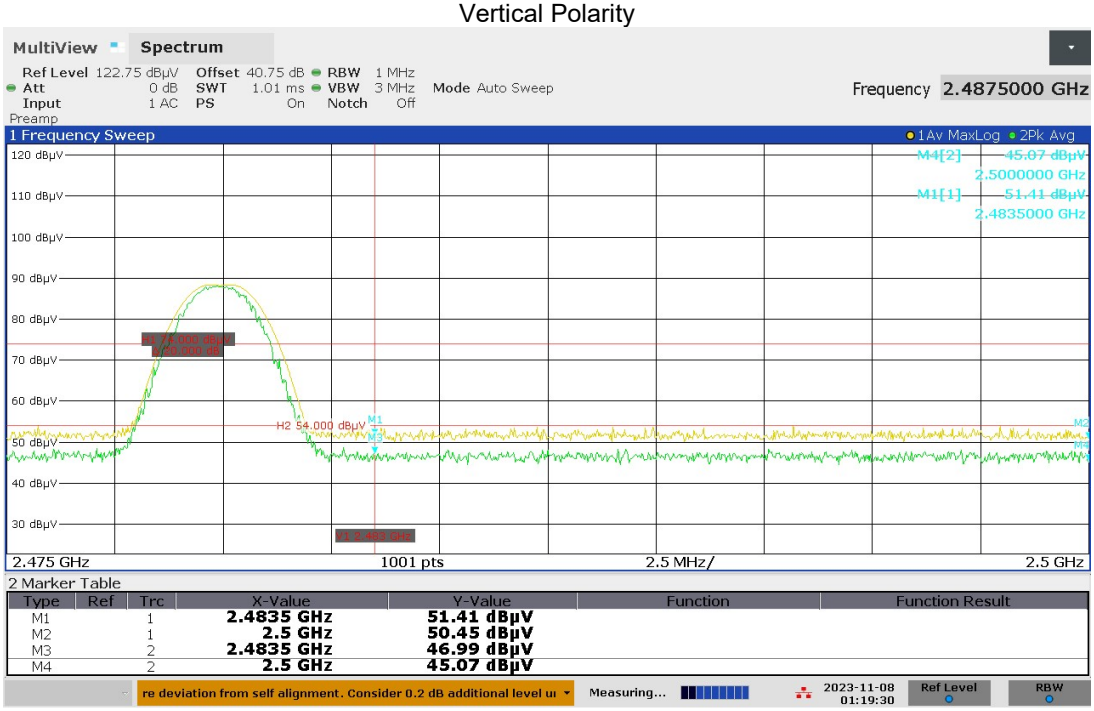
Horizontal Polarity



Notes: The antenna factor and cable loss were internally compensated as dB off-set.

Upper Band Edge, Peak Readings Compared to Peak Limit (FCC 15.209), 74 dBµV/m
Upper Band Edge, Average Readings Compared to Average Limit (FCC 15.209), 54 dBµV/m

Vertical Polarity



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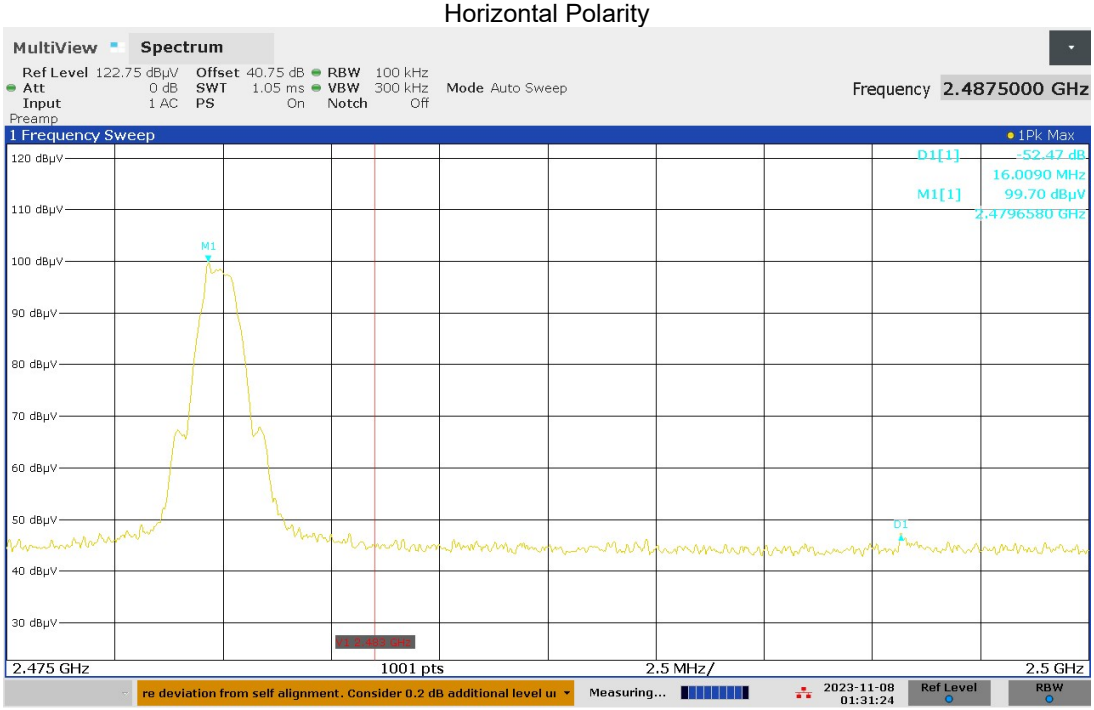
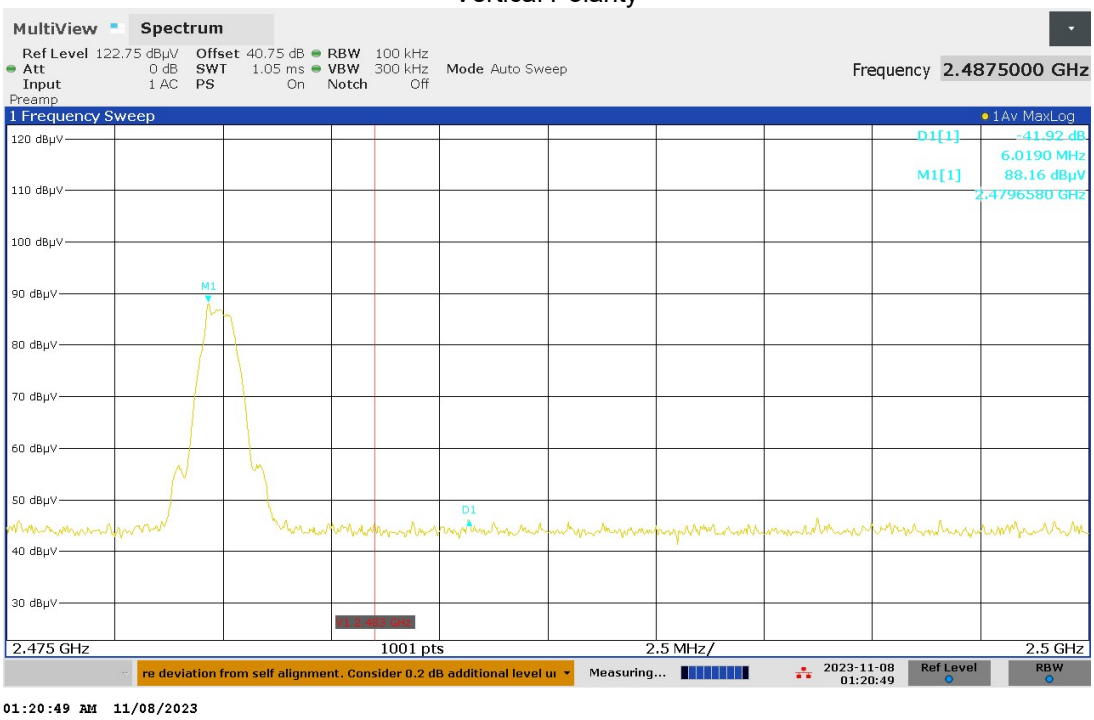
Horizontal Polarity



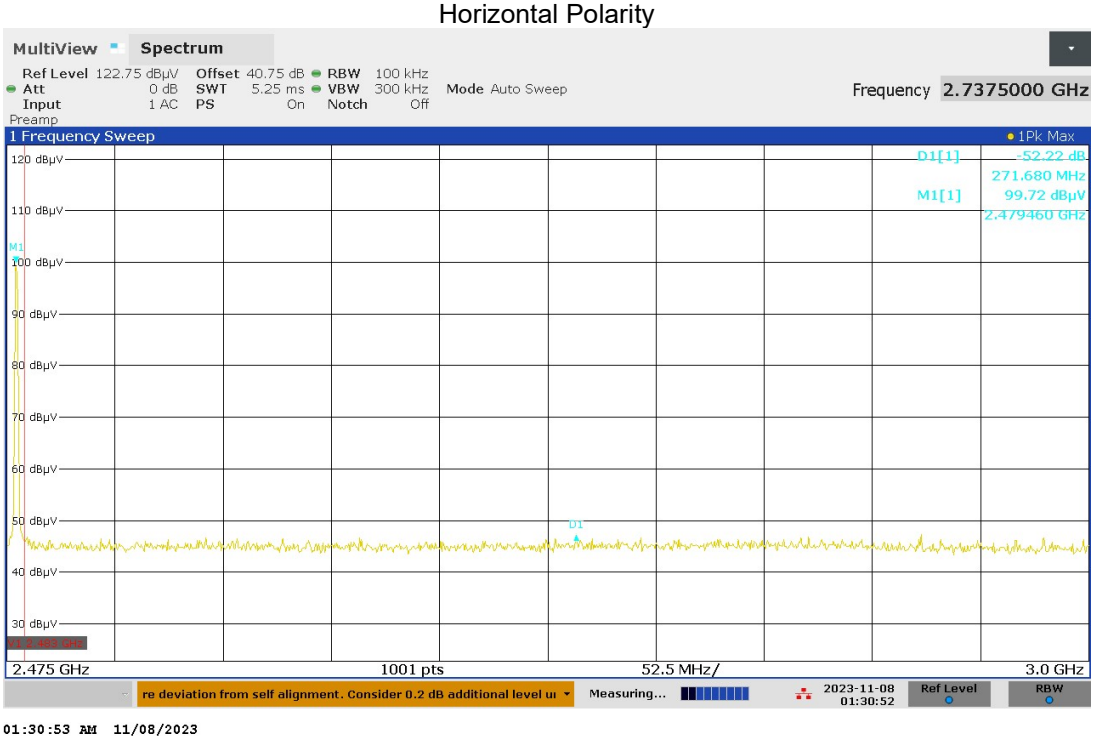
01:31:25 AM 11/08/2023

Upper Band Edge – Peak Readings Compared to 20 dBc limit (FCC 15.247 (d))

Vertical Polarity



Horizontal Polarity



Notes: The antenna factor and cable loss were internally compensated as dB off-set.

Product Standard: CFR47 FCC Part 15.247 & RSS-247				Limit applied: See Report Section 7.3 Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
11/08/2023	Vathana F. Ven VFV	Kouma Sinn KPS	Internal Battery	Continuous Transmitting	27	34	994

Deviations, Additions, or Exclusions: None

8 Transmitter spurious emissions

8.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C 15.247, FCC Part 15 Subpart B, RSS 247 ICES 003, ANSI C 63.10, and ANSI C 63.4.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	5.0 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	4.6 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.9 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.1 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.7 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	4.7 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG
Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 52.0 dBμV
AF = 7.4 dB/m
CF = 1.6 dB
AG = 29.0 dB
FS = 32 dBμV/m

To convert from dBμV to μV or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μV
NF = Net Reading in dBμV

Example:

FS = RA + AF + CF – AG = 52.0 + 7.4 + 1.6 – 29.0 = 32.0
$UF = 10^{(32\ dB\mu V / 20)}$ = 39.8 μV/m

Alternately, when BAT-EMC Emission Software is used, the “Level” includes all losses and gains and is compared directly in the “Margin” column to the “Limit”. The “Correction” includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the “Level” column.

8.2 Test Equipment Used:

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	02/21/2023	02/21/2024
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/18/2023	02/18/2024
145-424'	9kHz to 40GHz Cable	Huber and Suhner	Sucoflex	145-424	02/18/2023	02/18/2024
HS001'	DC-18GHz cable 1.5m long	Huber & Suhner	SucoFlex 106A	HS001	01/25/2023	01/25/2024
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	02/18/2023	02/18/2024
145145'	Broadband Hybrid Antenna 30 MHz - 3 GHz	Sunol Sciences Corp.	JB3	A122313	06/23/2023	06/23/2024
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	02/17/2023	02/17/2024
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	06/28/2023	06/28/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 1-18 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	02/21/2023	02/21/2024
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	10/16/2023	10/16/2024
ROS011'	EMI Test Receiver	Rohde & Schwartz	ESW44	103296	06/28/2023	06/28/2024
145-420'	Receiver to floor cable	Utiflex	UFB311A-2-0591-70070	145-420	02/18/2023	02/18/2024
145-408'	10m Chamber - 3m Track B In-floor Cable	Huber + Suhner	sucoflex 106-11000mm	001	07/19/2023	07/19/2024
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	07/19/2023	07/19/2024
145-422'	10Amp Pre-amp to under floor	Utiflex	UFB311A-0-2756-70070	145-422	02/18/2023	02/18/2024
PRE12'	Pre-amplifier	Com Power	PAM-118A	18040117	12/17/2022	12/17/2023
REA008'	band reject filter 2.4GHz	Reactel, Inc	12RX7-2441.75-x140 S	17-01	10/31/2023	10/31/2024
REA004'	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	02/14/2023	02/14/2024

Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 18-26 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	02/21/2023	02/21/2024
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Shwartz	FSW43	100646	11/18/2022	11/18/2023
CBLHF2012-2M-2'	2m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252675002	02/18/2023	02/18/2024
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	02/25/2023	02/25/2024
REA006'	18GHz High Pass Filter	Reactel, Inc	7HS-18G/40G K11	(06)1	04/25/2023	04/25/2024
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	01/26/2023	01/26/2024
PRE9'	100MHz-40GHz Preamp	MITEQ	NSP4000-NFG	1260417	10/03/2023	10/03/2024

Software Utilized:

Name	Manufacturer	Version
None	--	--

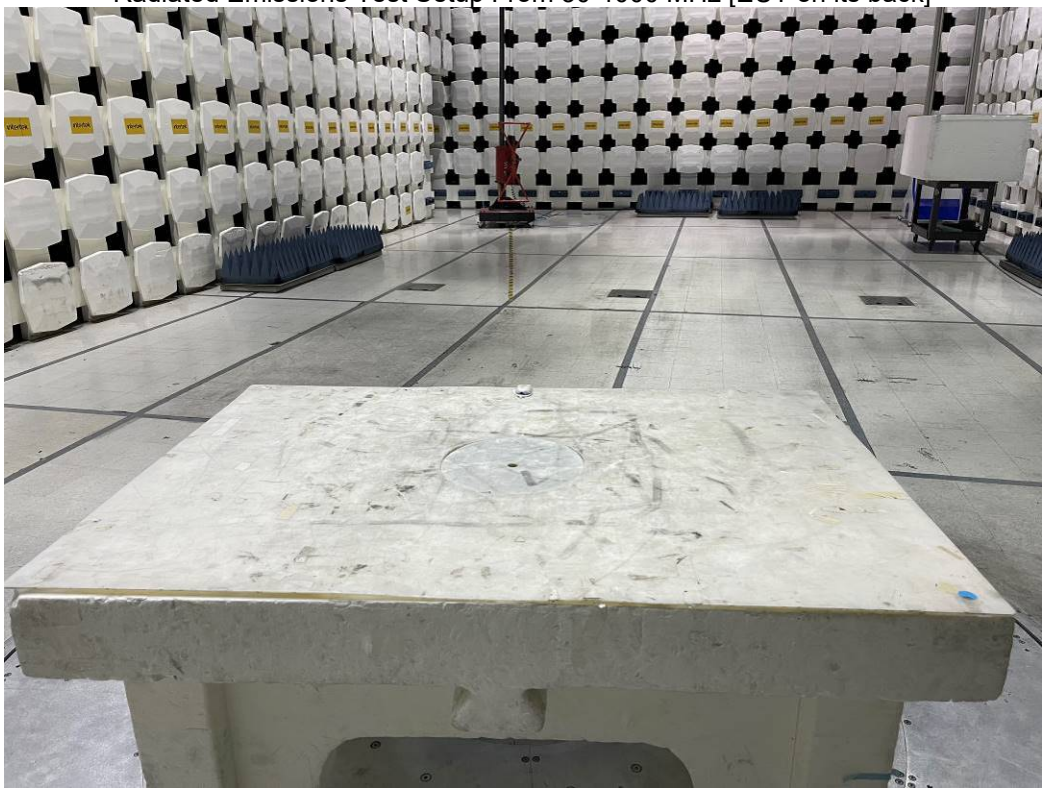
8.3 Results:

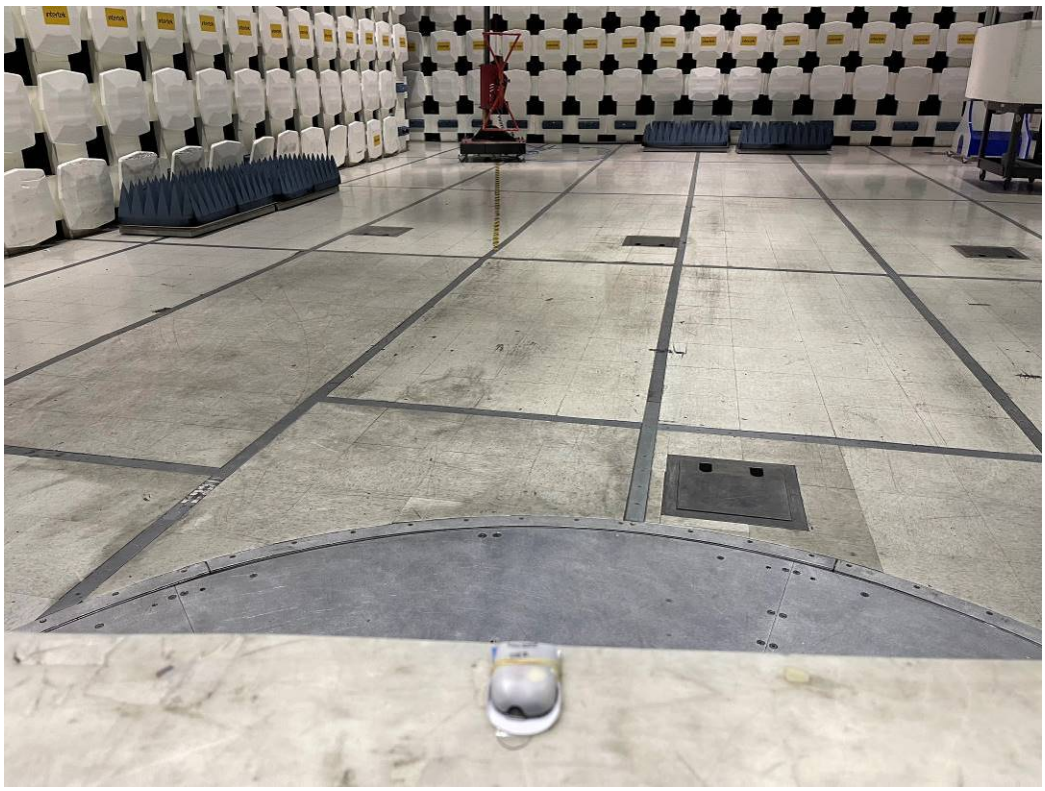
The sample tested was found to Comply.

Limits – FCC Part §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

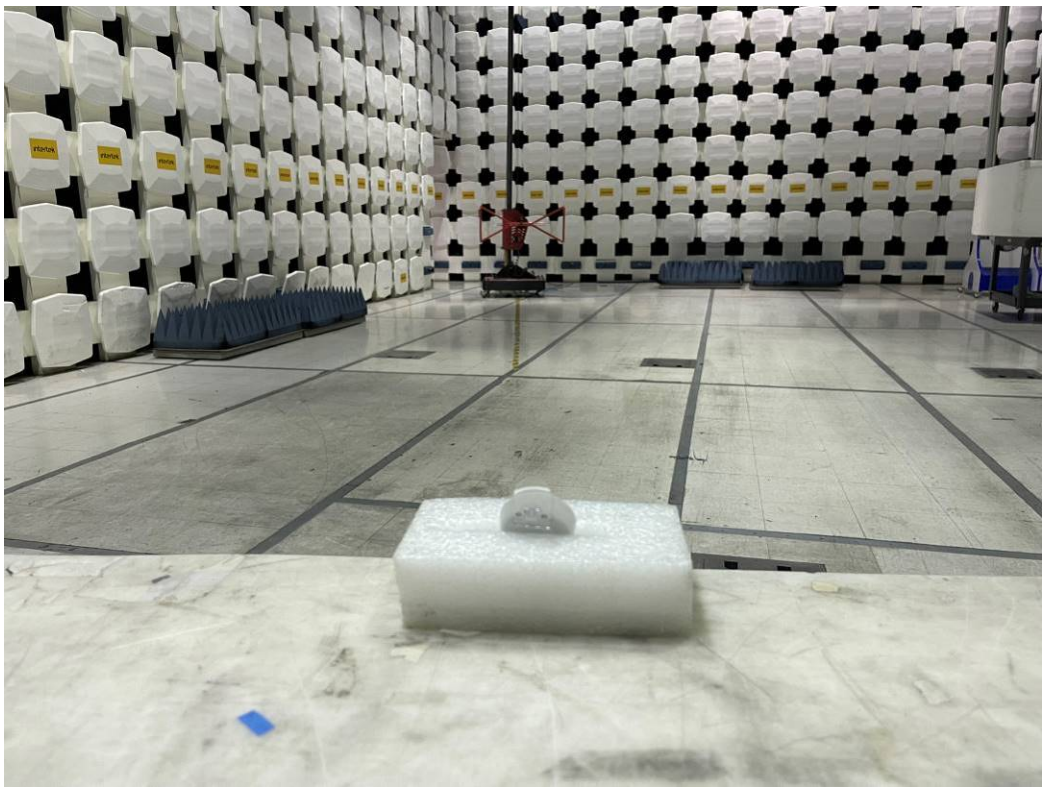
8.4 Setup Photographs:

Radiated Emissions Test Setup From 30-1000 MHz [EUT on its back]

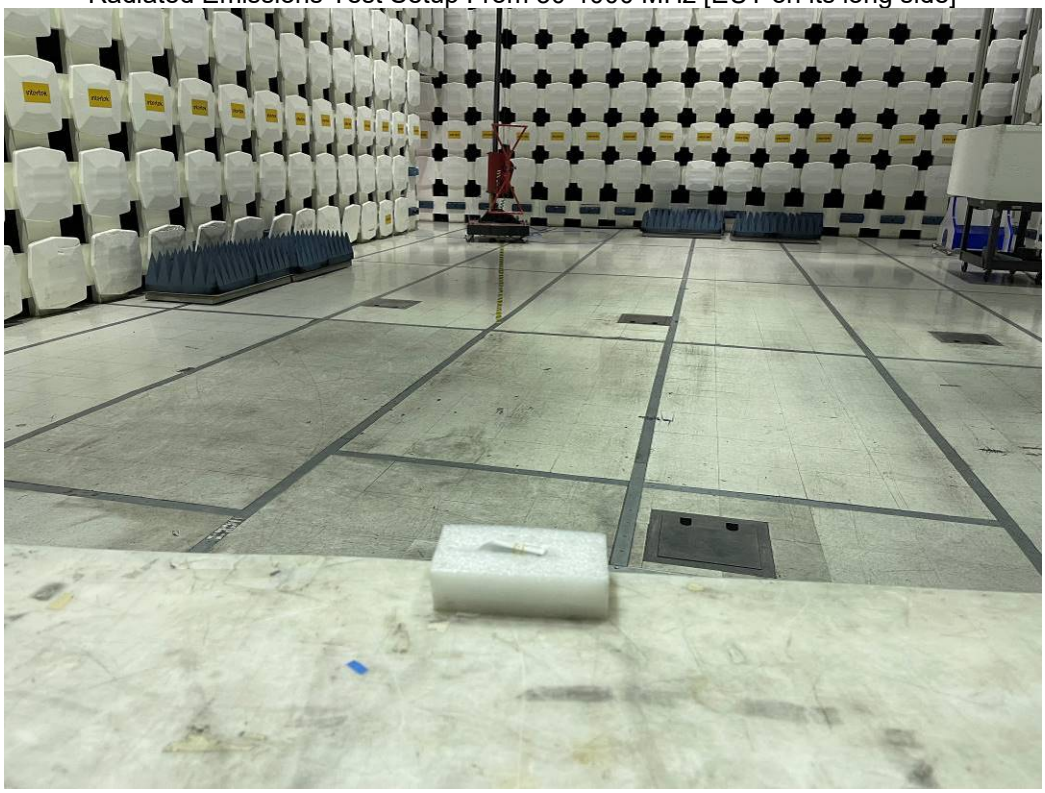




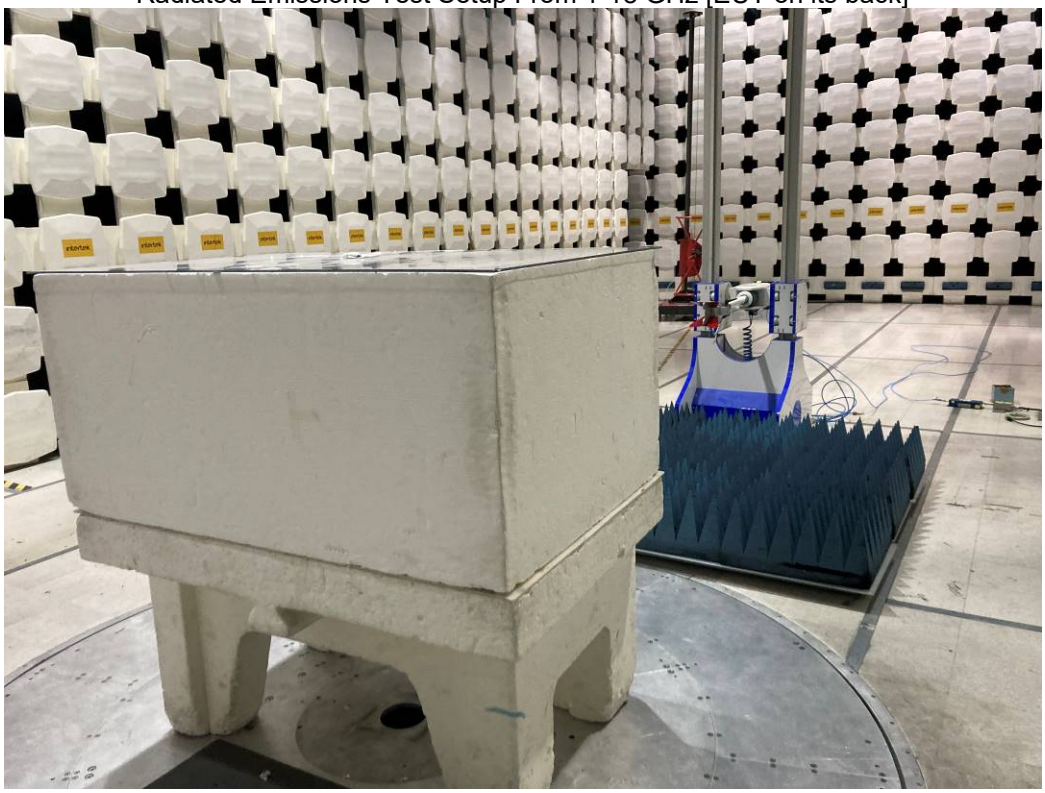
Radiated Emissions Test Setup From 30-1000 MHz [EUT on its short side]

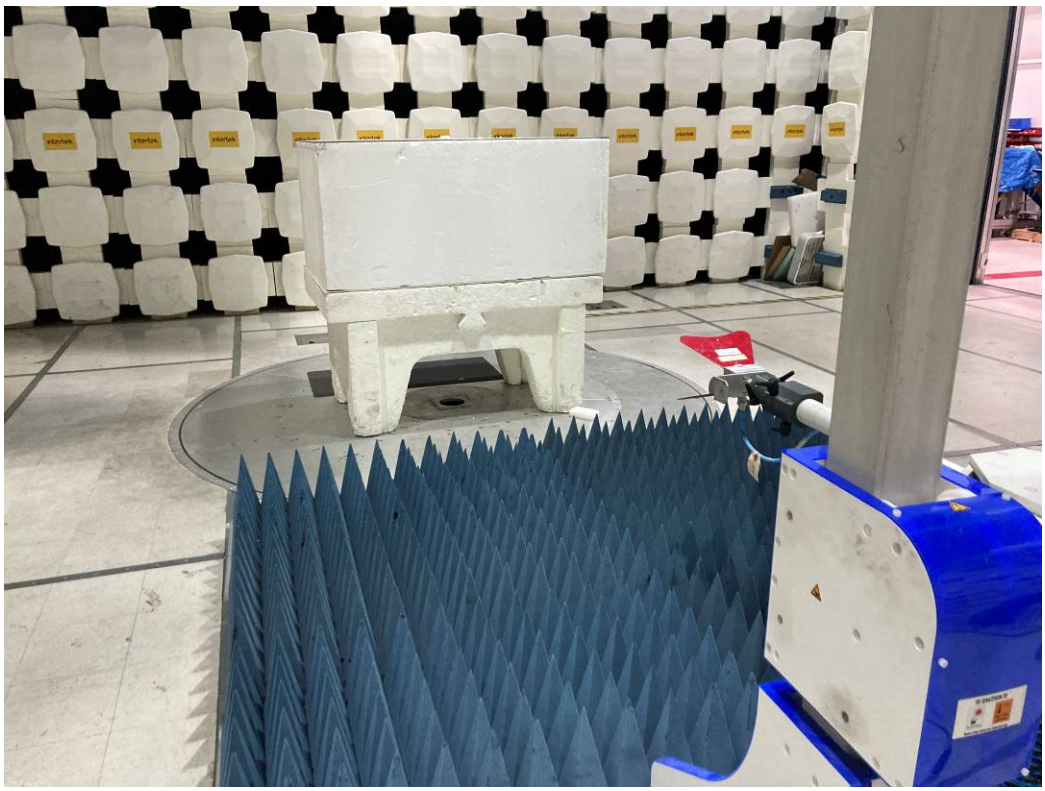


Radiated Emissions Test Setup From 30-1000 MHz [EUT on its long side]

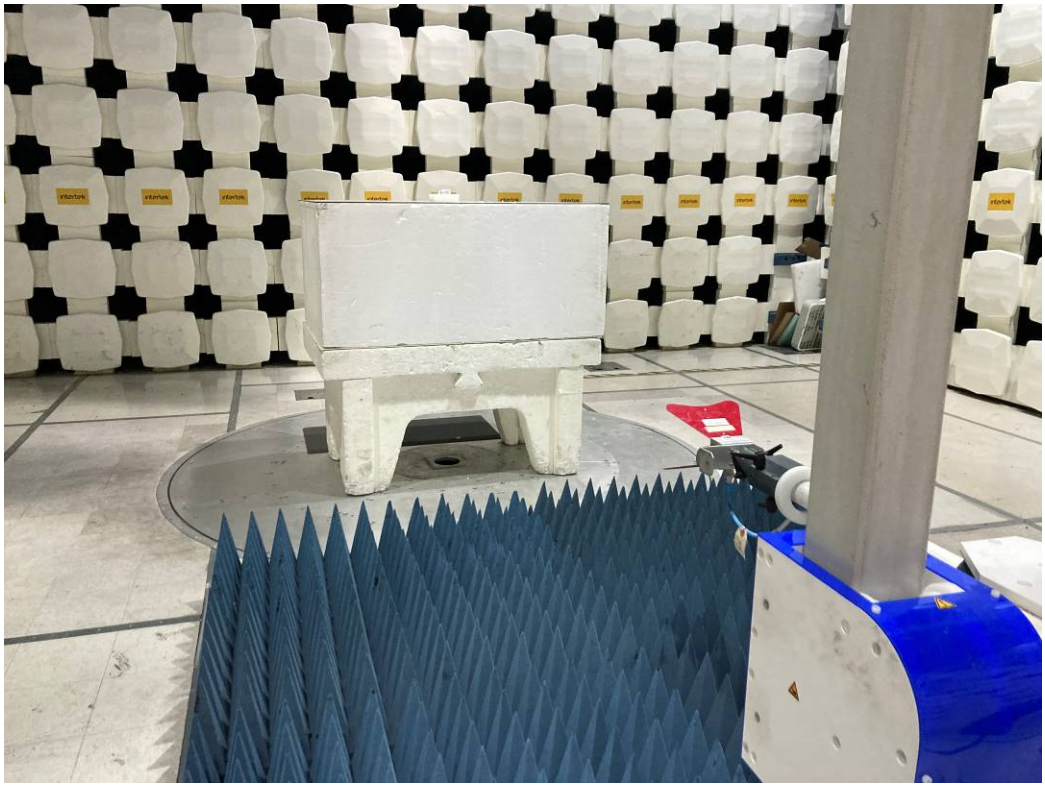


Radiated Emissions Test Setup From 1-18 GHz [EUT on its back]

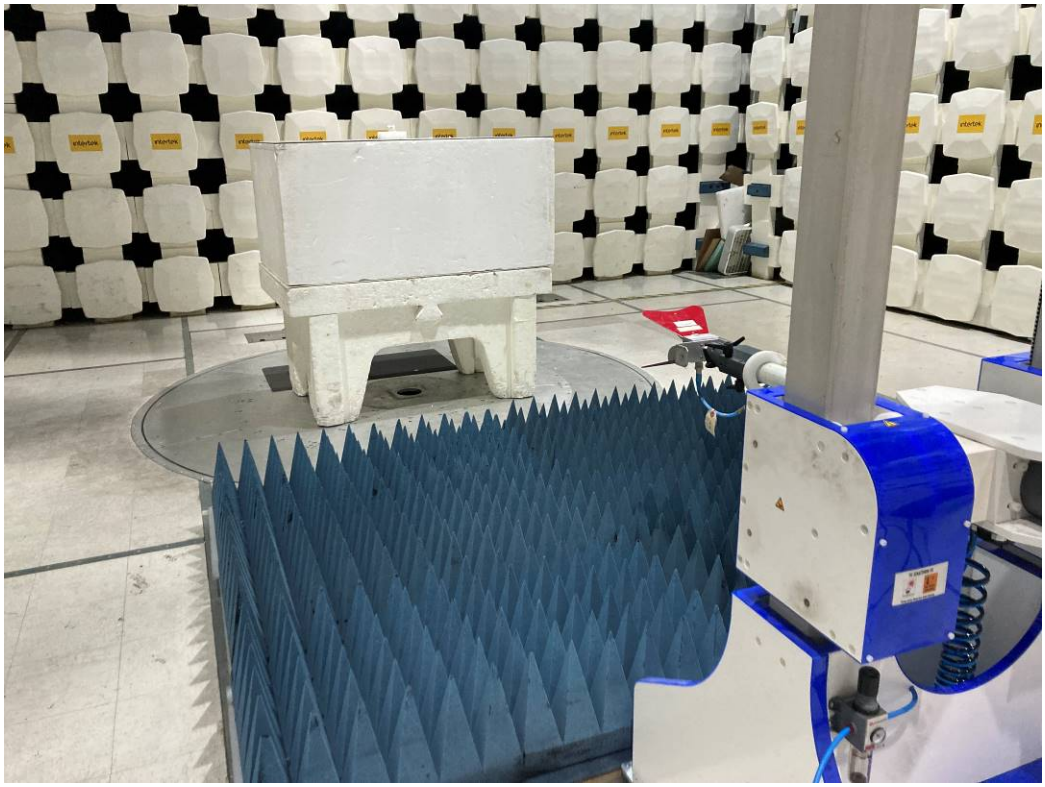




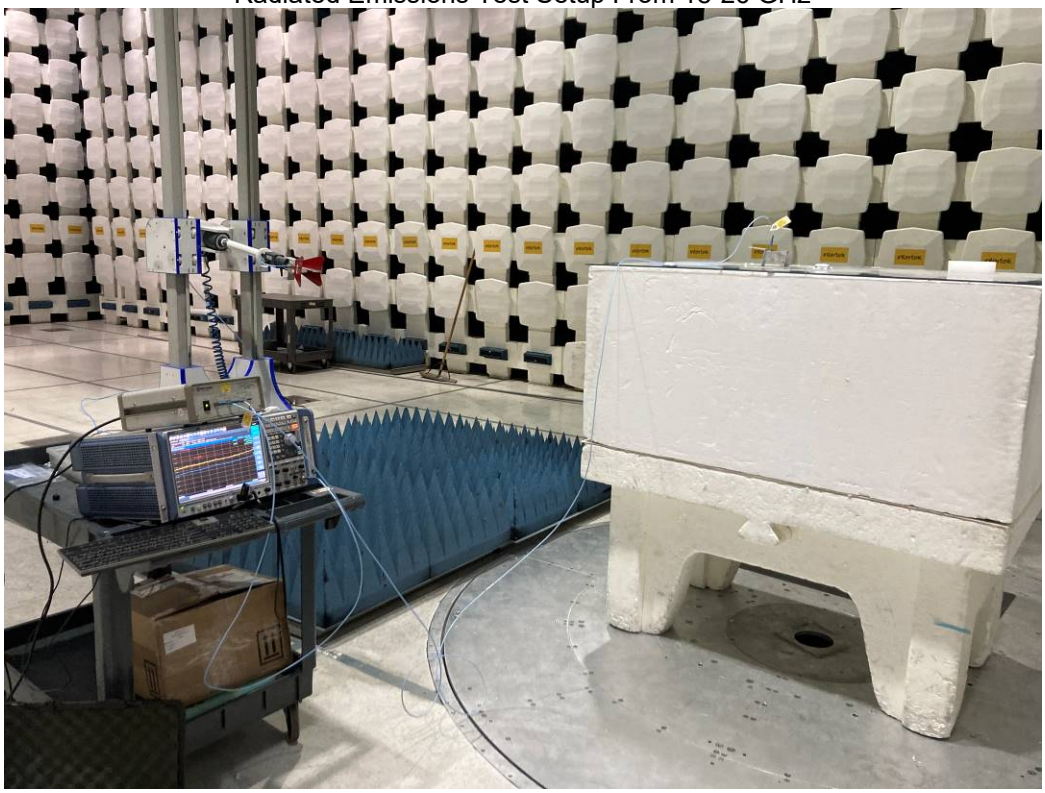
Radiated Emissions Test Setup From 1-18 GHz [EUT on its long side]

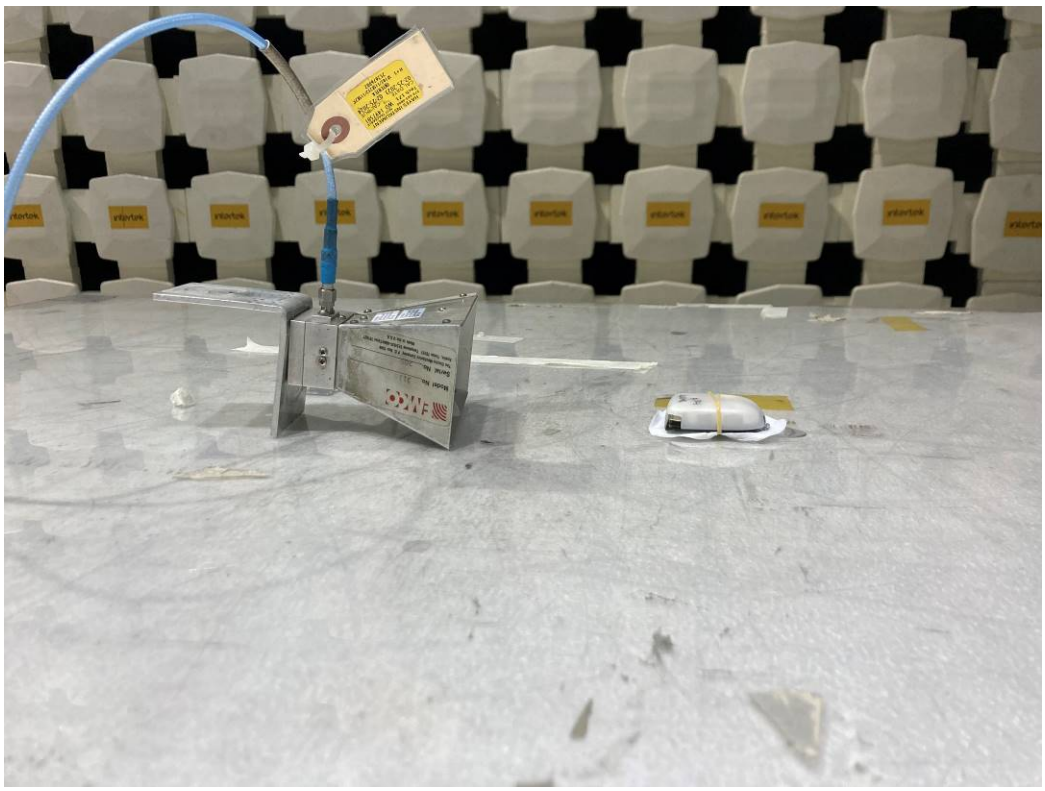


Radiated Emissions Test Setup From 1-18 GHz [EUT on its short side]



Radiated Emissions Test Setup From 18-26 GHz





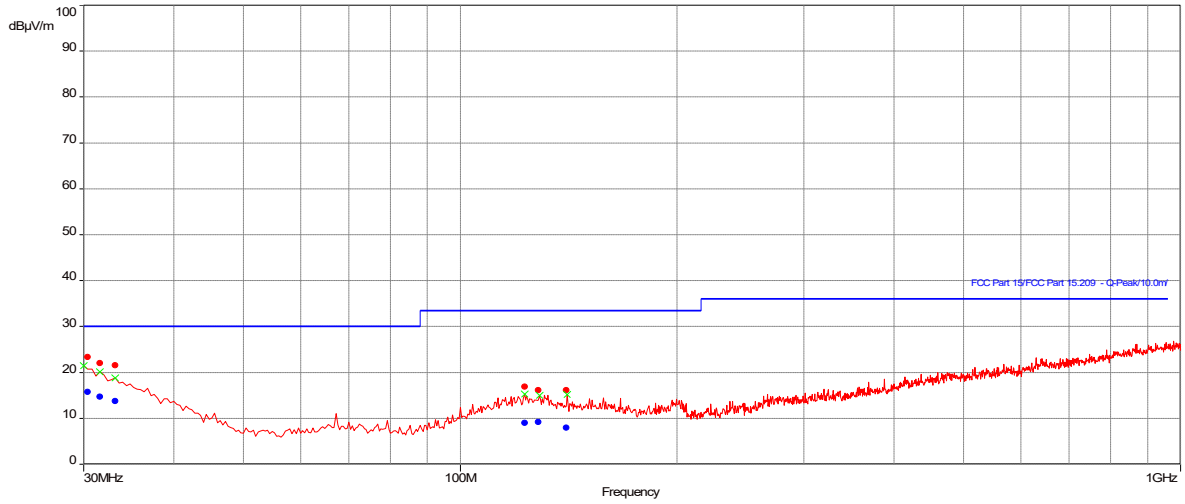
8.5 Plots / Data:

Transmit at Low Channel (EUT on its back) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 9:55:23 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 3_Serial # 303, Low Ch (EUT on its long side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.222	23.39	--	--	99.90	3.37	Vertical	120000.00	120k	-12.60
31.75	22.11	--	--	58.40	2.09	Horizontal	120000.00	120k	-13.56
33.092	21.56	--	--	360.00	3.38	Horizontal	120000.00	120k	-14.45
122.896	16.92	--	--	99.60	1.65	Vertical	120000.00	120k	-18.36
128.458	16.12	--	--	328.60	2.94	Vertical	120000.00	120k	-18.36
140.572	16.16	--	--	58.10	2.10	Vertical	120000.00	120k	-19.28

QuasiPeak (PASS) (6)

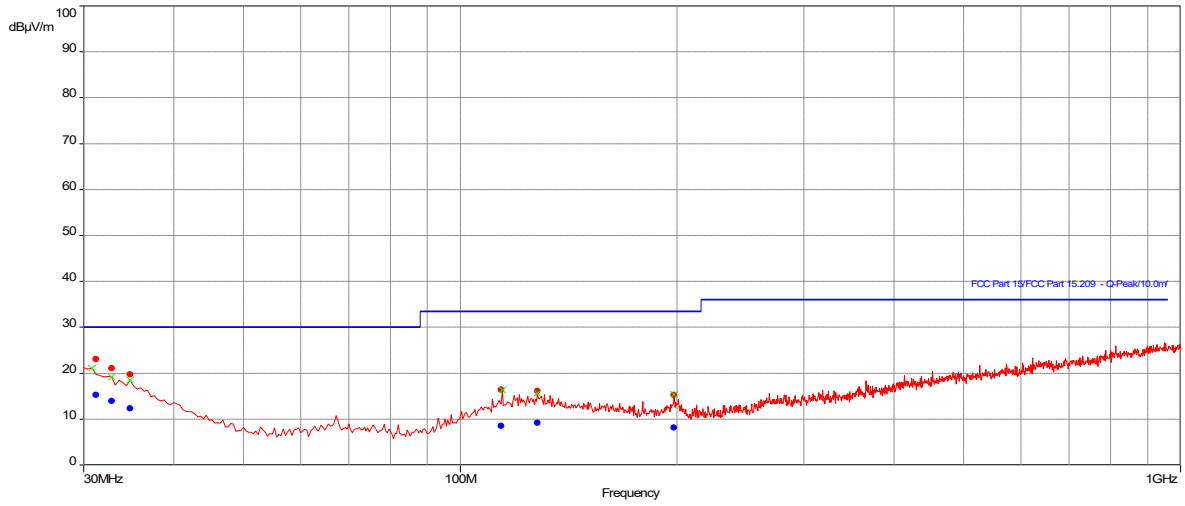
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.222	15.75	30.00	-14.25	99.90	3.37	Vertical	120000.00	120k	-12.60
31.75	14.76	30.00	-15.24	58.40	2.09	Horizontal	120000.00	120k	-13.56
33.092	13.81	30.00	-16.19	360.00	3.38	Horizontal	120000.00	120k	-14.45
122.896	9.08	33.50	-24.42	99.60	1.65	Vertical	120000.00	120k	-18.36
128.458	9.20	33.50	-24.30	328.60	2.94	Vertical	120000.00	120k	-18.36
140.572	8.00	33.50	-25.50	58.10	2.10	Vertical	120000.00	120k	-19.28

Transmit at Low Channel (EUT on its short side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 9:51:19 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 2_Serial # 303, Low Ch (EUT on its short side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
31.094	23.14	--	--	288.10	3.38	Vertical	120000.00	120k	-12.98
32.812	21.10	--	--	225.00	3.81	Vertical	120000.00	120k	-14.26
34.83	19.76	--	--	58.20	4.00	Vertical	120000.00	120k	-15.73
113.992	16.42	--	--	307.90	4.00	Horizontal	120000.00	120k	-19.04
127.928	16.13	--	--	183.10	2.52	Horizontal	120000.00	120k	-18.32
198.012	15.35	--	--	79.00	2.96	Vertical	120000.00	120k	-19.21

QuasiPeak (PASS) (6)

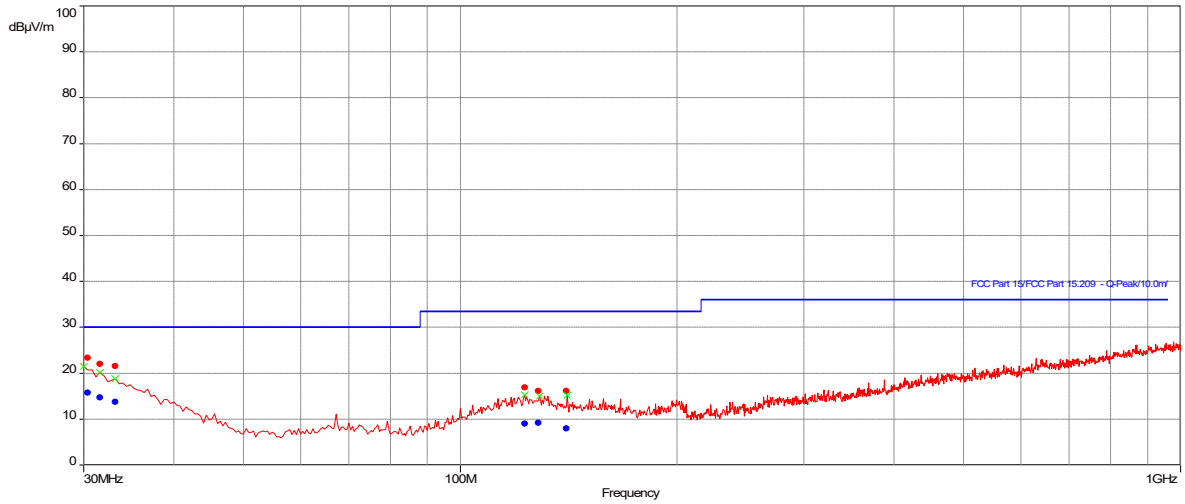
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
31.094	15.34	30.00	-14.66	288.10	3.38	Vertical	120000.00	120k	-12.98
32.812	14.01	30.00	-15.99	225.00	3.81	Vertical	120000.00	120k	-14.26
34.83	12.39	30.00	-17.61	58.20	4.00	Vertical	120000.00	120k	-15.73
113.992	8.57	33.50	-24.93	307.90	4.00	Horizontal	120000.00	120k	-19.04
127.928	9.22	33.50	-24.28	183.10	2.52	Horizontal	120000.00	120k	-18.32
198.012	8.19	33.50	-25.31	79.00	2.96	Vertical	120000.00	120k	-19.21

Transmit at Low Channel (EUT on its long side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 9:55:23 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 3_Serial # 303, Low Ch (EUT on its long side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.222	23.39	--	--	99.90	3.37	Vertical	120000.00	120k	-12.60
31.75	22.11	--	--	58.40	2.09	Horizontal	120000.00	120k	-13.56
33.092	21.56	--	--	360.00	3.38	Horizontal	120000.00	120k	-14.45
122.896	16.92	--	--	99.60	1.65	Vertical	120000.00	120k	-18.36
128.458	16.12	--	--	328.60	2.94	Vertical	120000.00	120k	-18.36
140.572	16.16	--	--	58.10	2.10	Vertical	120000.00	120k	-19.28

QuasiPeak (PASS) (6)

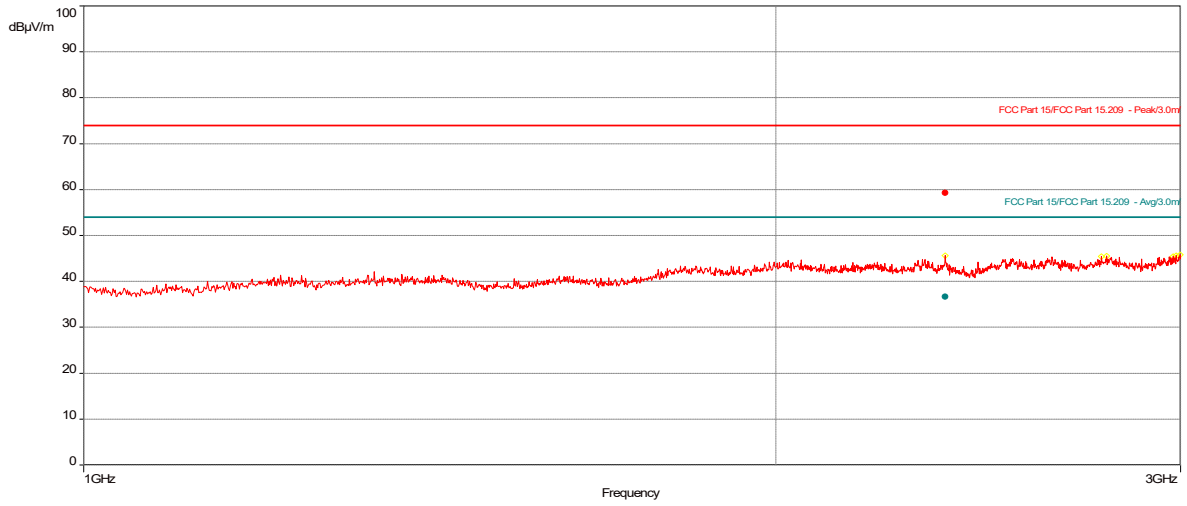
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.222	15.75	30.00	-14.25	99.90	3.37	Vertical	120000.00	120k	-12.60
31.75	14.76	30.00	-15.24	58.40	2.09	Horizontal	120000.00	120k	-13.56
33.092	13.81	30.00	-16.19	360.00	3.38	Horizontal	120000.00	120k	-14.45
122.896	9.08	33.50	-24.42	99.60	1.65	Vertical	120000.00	120k	-18.36
128.458	9.20	33.50	-24.30	328.60	2.94	Vertical	120000.00	120k	-18.36
140.572	8.00	33.50	-25.50	58.10	2.10	Vertical	120000.00	120k	-19.28

Transmit at Low Channel (EUT on its back, X-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 5:03:08 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx Low CH_X-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2369.8	59.32	74.00	-14.68	113.10	1.00	Horizontal	1M	-16.02

Average (PASS) (1)

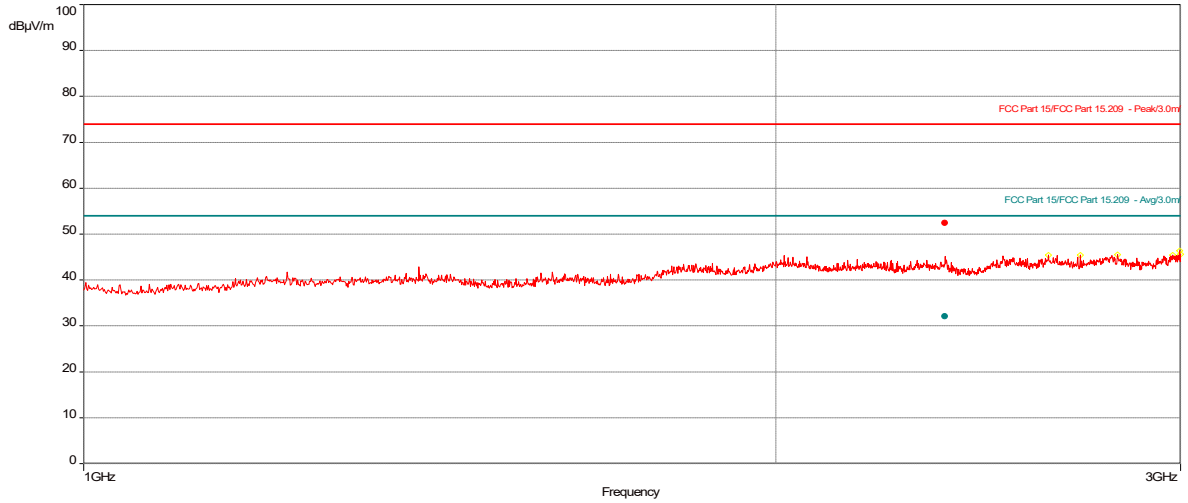
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2369.8	36.68	54.00	-17.32	113.10	1.00	Horizontal	1M	-16.02

Transmit at Low Channel (EUT on its short side, Y-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 4:54:26 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx Low CH_Y-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2369.45	52.47	74.00	-21.53	360.00	3.58	Horizontal	1M	-16.02

Average (PASS) (1)

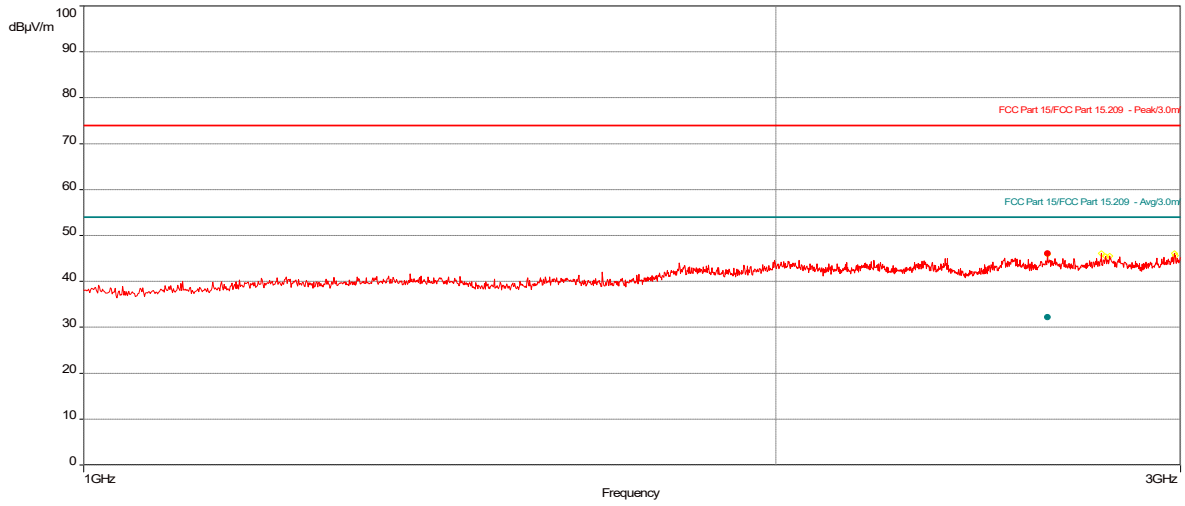
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2369.45	32.12	54.00	-21.88	360.00	3.58	Horizontal	1M	-16.02

Transmit at Low Channel (EUT on its long side, Z-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 4:46:13 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx Low CH_Z-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2625.55	46.08	74.00	-27.92	347.80	1.98	Vertical	1M	-15.03

Average (PASS) (1)

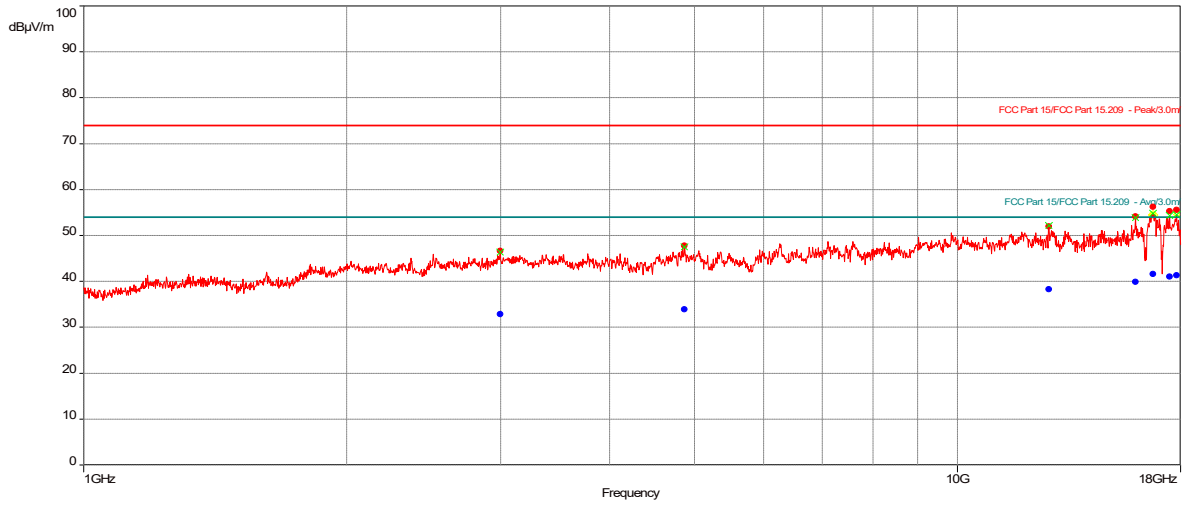
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2625.55	32.25	54.00	-21.75	347.80	1.98	Vertical	1M	-15.03

Transmit at Low Channel (EUT on its back) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 4:33:31 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 18 GHz_Tx Low CH_X-Axis

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2996.5	46.72	74.00	-27.28	360.00	4.00	Horizontal	1M	-14.19
4868.25	47.84	74.00	-26.16	300.80	1.00	Vertical	1M	-10.89
12716.05	52.05	74.00	-21.95	300.90	1.00	Vertical	1M	0.37
15989.2	54.15	74.00	-19.85	300.70	1.00	Vertical	1M	3.97
16744.65	56.26	74.00	-17.74	360.00	4.00	Vertical	1M	6.06
17483.45	55.36	74.00	-18.64	360.00	1.00	Vertical	1M	6.10
17808.05	55.62	74.00	-18.38	301.00	4.00	Vertical	1M	6.25

Average (PASS) (7)

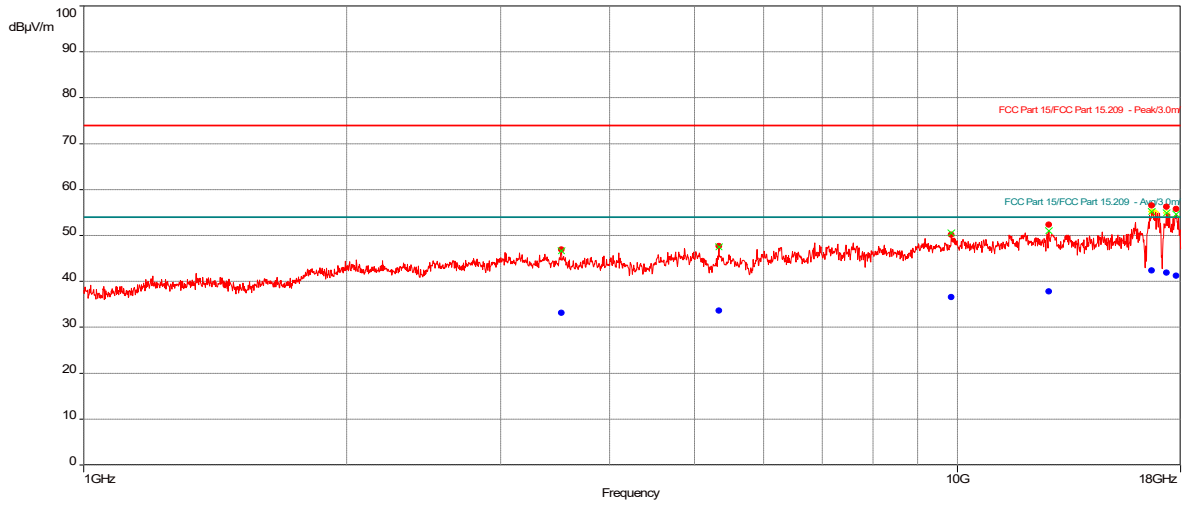
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2996.5	32.94	54.00	-21.06	360.00	4.00	Horizontal	1M	-14.19
4868.25	33.91	54.00	-20.09	300.80	1.00	Vertical	1M	-10.89
12716.05	38.32	54.00	-15.68	300.90	1.00	Vertical	1M	0.37
15989.2	39.94	54.00	-14.06	300.70	1.00	Vertical	1M	3.97
16744.65	41.68	54.00	-12.32	360.00	4.00	Vertical	1M	6.06
17483.45	41.03	54.00	-12.97	360.00	1.00	Vertical	1M	6.10
17808.05	41.34	54.00	-12.66	301.00	4.00	Vertical	1M	6.25

Transmit at Low Channel (EUT on its short side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 5:26:44 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 18 GHz_Tx Low CH_Y-Axis

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
3521.55	46.96	74.00	-27.04	0.00	1.00	Vertical	1M	-13.42
5334.6	47.68	74.00	-26.32	360.00	1.00	Vertical	1M	-10.17
9842.25	50.21	74.00	-23.79	360.00	4.00	Horizontal	1M	-3.87
12722.75	52.42	74.00	-21.58	0.00	4.00	Horizontal	1M	0.38
16677.55	56.59	74.00	-17.41	360.00	1.00	Horizontal	1M	5.83
17348.05	56.30	74.00	-17.70	360.00	4.00	Vertical	1M	5.91
17801.85	55.82	74.00	-18.18	360.00	4.00	Vertical	1M	6.24

Average (PASS) (7)

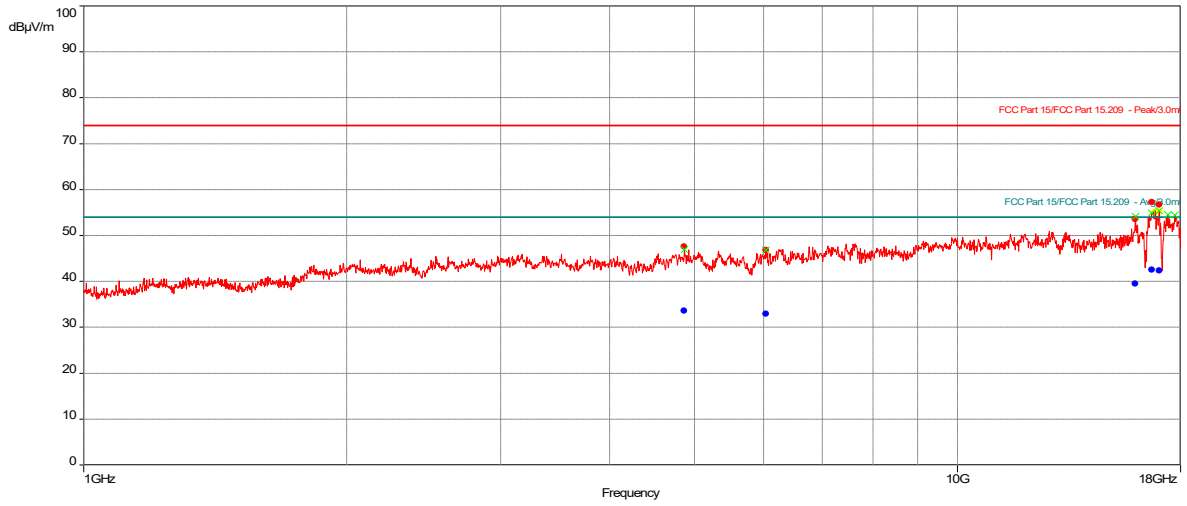
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
3521.55	33.14	54.00	-20.86	0.00	1.00	Vertical	1M	-13.42
5334.6	33.64	54.00	-20.36	360.00	1.00	Vertical	1M	-10.17
9842.25	36.56	54.00	-17.44	360.00	4.00	Horizontal	1M	-3.87
12722.75	37.82	54.00	-16.18	0.00	4.00	Horizontal	1M	0.38
16677.55	42.36	54.00	-11.64	360.00	1.00	Horizontal	1M	5.83
17348.05	41.97	54.00	-12.03	360.00	4.00	Vertical	1M	5.91
17801.85	41.23	54.00	-12.77	360.00	4.00	Vertical	1M	6.24

Transmit at Low Channel (EUT on its long side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 6:17:49 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 18 GHz_Tx Low CH_Z-Axis

Graph:



Results:

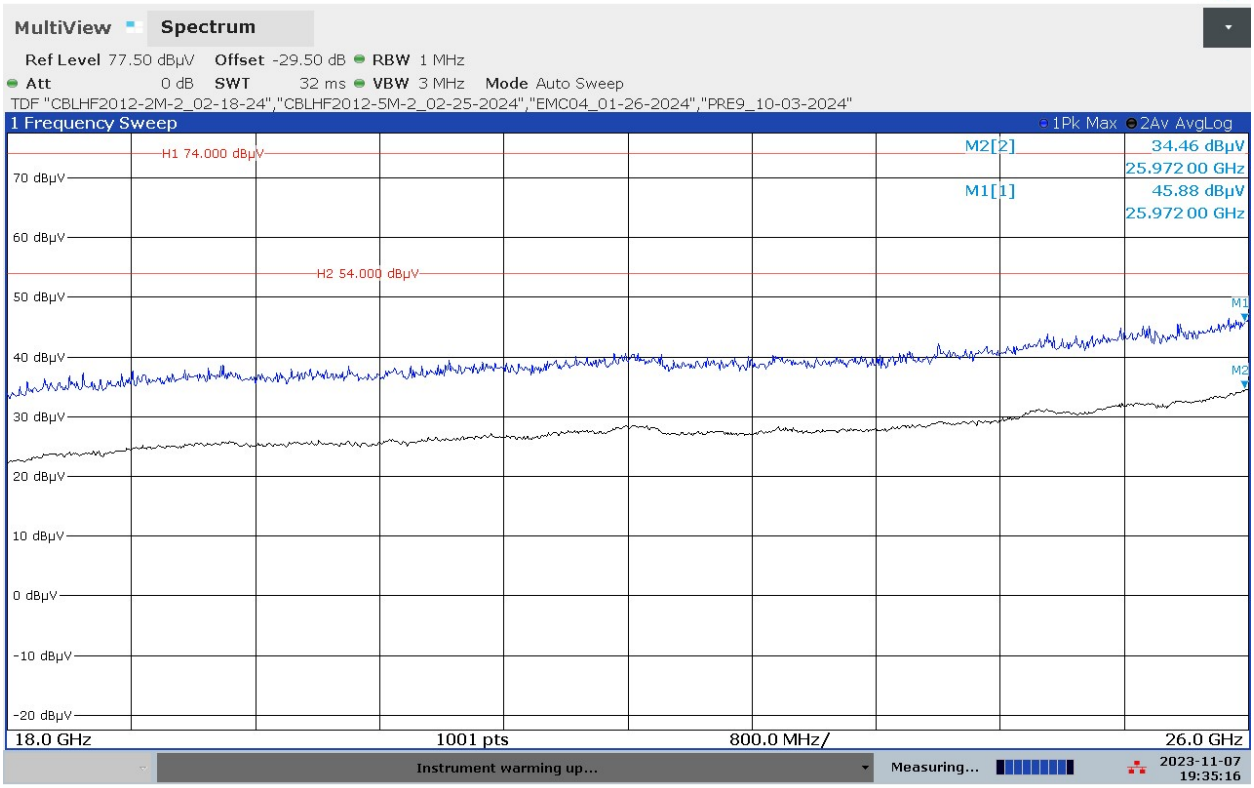
Peak (PASS) (5)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4866.1	47.67	74.00	-26.33	0.00	4.00	Horizontal	1M	-10.89
6033.25	46.83	74.00	-27.17	300.90	1.00	Horizontal	1M	-8.72
15972.1	53.66	74.00	-20.34	360.00	4.00	Vertical	1M	3.92
16684.5	57.30	74.00	-16.70	300.90	4.00	Vertical	1M	5.86
17008.45	56.79	74.00	-17.21	0.00	4.00	Horizontal	1M	6.14

Average (PASS) (5)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
4866.1	33.66	54.00	-20.34	0.00	4.00	Horizontal	1M	-10.89
6033.25	33.03	54.00	-20.97	300.90	1.00	Horizontal	1M	-8.72
15972.1	39.55	54.00	-14.45	360.00	4.00	Vertical	1M	3.92
16684.5	42.57	54.00	-11.43	300.90	4.00	Vertical	1M	5.86
17008.45	42.40	54.00	-11.60	0.00	4.00	Horizontal	1M	6.14

Transmit at Low Channel (Manual Testing, 3 axis) Radiated Spurious Emissions From 18-26 GHz



07:35:17 PM 11/07/2023

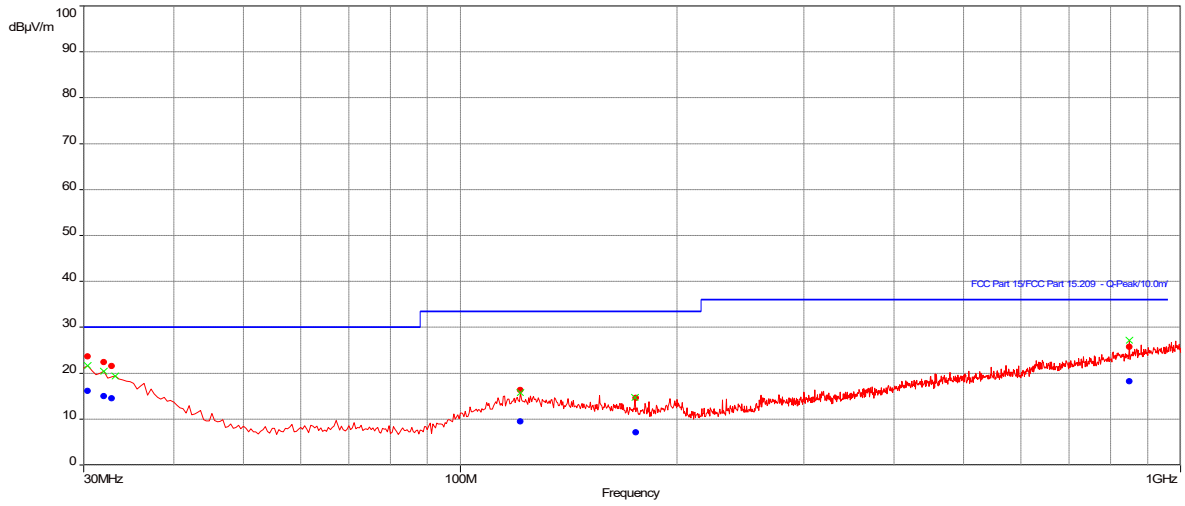
Notes: Antenna factor, cable loss, and distance factor were compensated as dB offset.

Transmit at Mid Channel (EUT on its back) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 11:25:45 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 6_Serial # 307, Mid Ch (EUT on its bck, RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.436	23.68	--	--	183.40	2.53	Horizontal	120000.00	120k	-12.68
31.91	22.43	--	--	58.30	2.95	Horizontal	120000.00	120k	-13.71
32.66	21.63	--	--	99.40	2.51	Vertical	120000.00	120k	-14.17
121.038	16.37	--	--	79.10	2.95	Horizontal	120000.00	120k	-18.38
175.058	14.67	--	--	141.50	1.00	Vertical	120000.00	120k	-20.47
849.356	25.79	--	--	224.40	2.53	Horizontal	120000.00	120k	-6.34

QuasiPeak (PASS) (6)

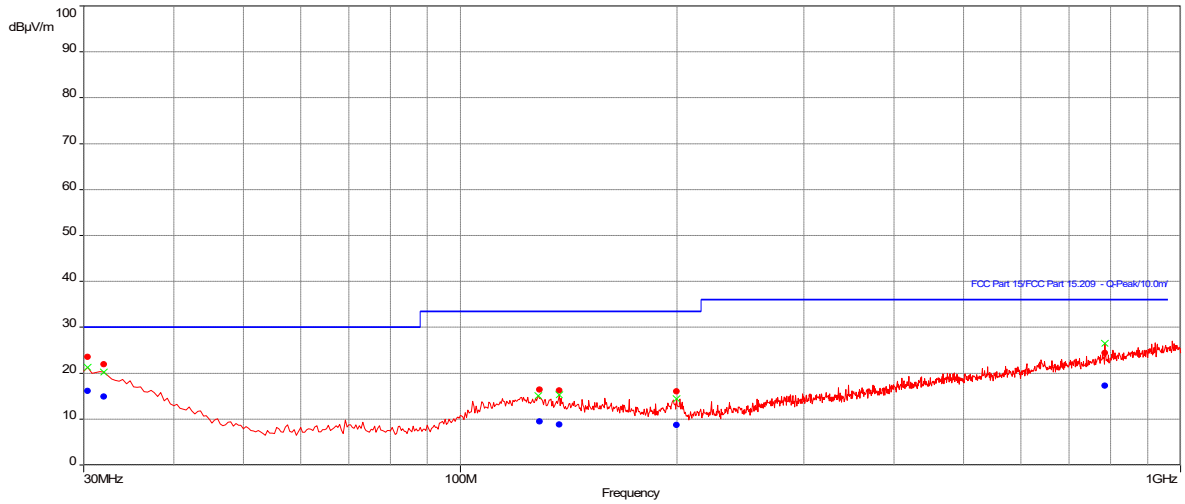
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.436	16.17	30.00	-13.83	183.40	2.53	Horizontal	120000.00	120k	-12.68
31.91	15.07	30.00	-14.93	58.30	2.95	Horizontal	120000.00	120k	-13.71
32.66	14.59	30.00	-15.41	99.40	2.51	Vertical	120000.00	120k	-14.17
121.038	9.56	33.50	-23.94	79.10	2.95	Horizontal	120000.00	120k	-18.38
175.058	7.10	33.50	-26.40	141.50	1.00	Vertical	120000.00	120k	-20.47
849.356	18.22	36.00	-17.78	224.40	2.53	Horizontal	120000.00	120k	-6.34

Transmit at Mid Channel (EUT on its short side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 10:56:38 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 5_Serial # 307, Mid Ch (EUT on its short side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.418	23.57	--	--	204.20	2.09	Horizontal	120000.00	120k	-12.67
32.042	21.99	--	--	266.50	1.00	Horizontal	120000.00	120k	-13.81
128.616	16.44	--	--	141.40	3.79	Vertical	120000.00	120k	-18.38
137.158	16.29	--	--	162.20	2.54	Horizontal	120000.00	120k	-18.96
199.654	16.08	--	--	37.60	1.68	Vertical	120000.00	120k	-19.10
785.084	24.46	--	--	265.80	1.67	Horizontal	120000.00	120k	-7.58

QuasiPeak (PASS) (6)

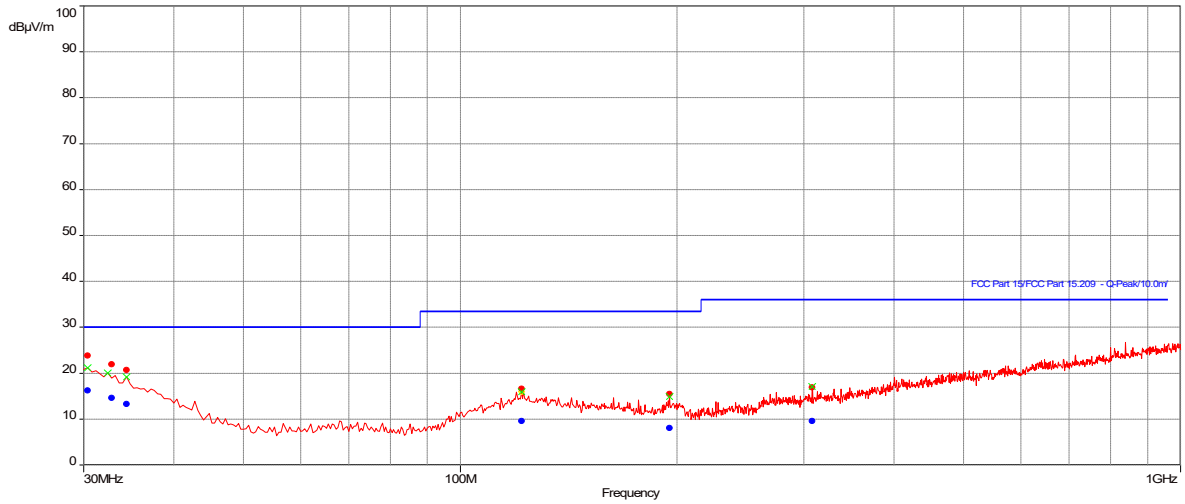
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.418	16.14	30.00	-13.86	204.20	2.09	Horizontal	120000.00	120k	-12.67
32.042	14.95	30.00	-15.05	266.50	1.00	Horizontal	120000.00	120k	-13.81
128.616	9.49	33.50	-24.01	141.40	3.79	Vertical	120000.00	120k	-18.38
137.158	8.81	33.50	-24.69	162.20	2.54	Horizontal	120000.00	120k	-18.96
199.654	8.78	33.50	-24.72	37.60	1.68	Vertical	120000.00	120k	-19.10
785.084	17.28	36.00	-18.72	265.80	1.67	Horizontal	120000.00	120k	-7.58

Transmit at Mid Channel (EUT on its long side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 10:27:01 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 4_Serial # 307, Mid Ch (EUT on its long side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.31	23.82	--	--	287.20	2.52	Horizontal	120000.00	120k	-12.63
32.664	21.93	--	--	225.20	2.52	Horizontal	120000.00	120k	-14.18
34.22	20.71	--	--	141.50	3.80	Horizontal	120000.00	120k	-15.31
121.54	16.69	--	--	349.10	3.79	Horizontal	120000.00	120k	-18.37
195.092	15.47	--	--	141.20	2.95	Horizontal	120000.00	120k	-19.72
308.024	16.95	--	--	286.80	2.09	Horizontal	120000.00	120k	-17.59

QuasiPeak (PASS) (6)

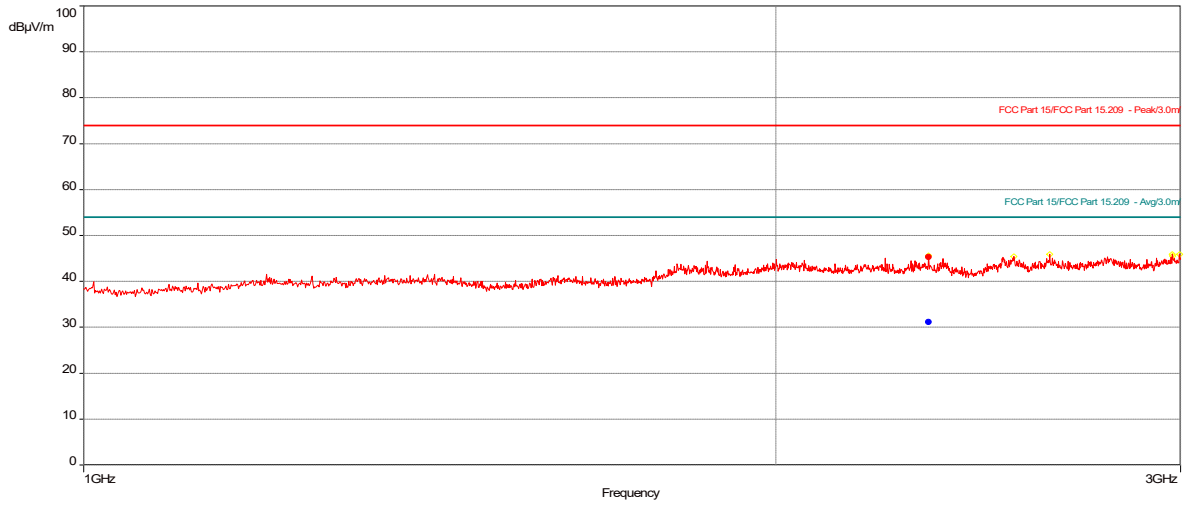
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.31	16.25	30.00	-13.75	287.20	2.52	Horizontal	120000.00	120k	-12.63
32.664	14.64	30.00	-15.36	225.20	2.52	Horizontal	120000.00	120k	-14.18
34.22	13.35	30.00	-16.65	141.50	3.80	Horizontal	120000.00	120k	-15.31
121.54	9.56	33.50	-23.94	349.10	3.79	Horizontal	120000.00	120k	-18.37
195.092	8.07	33.50	-25.43	141.20	2.95	Horizontal	120000.00	120k	-19.72
308.024	9.57	36.00	-26.43	286.80	2.09	Horizontal	120000.00	120k	-17.59

Transmit at Mid Channel (EUT on its back, X-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/6/2023 7:13:45 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 3 GHz_Tx Mid CH_X-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2330.55	45.37	74.00	-28.63	152.10	1.44	Vertical	1M	-16.04

Average (PASS) (1)

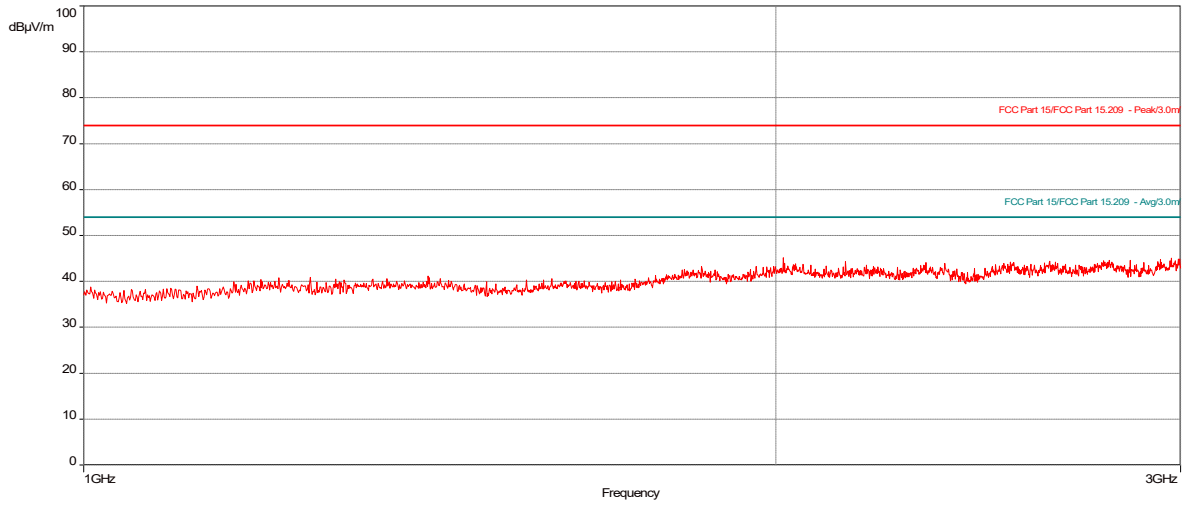
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2330.55	31.18	54.00	-22.82	152.10	1.44	Vertical	1M	-16.04

Transmit at Mid Channel (EUT on its short side, Y-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/6/2023 7:10:56 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 3 GHz_Tx Mid CH_Y-Axis

Graph:



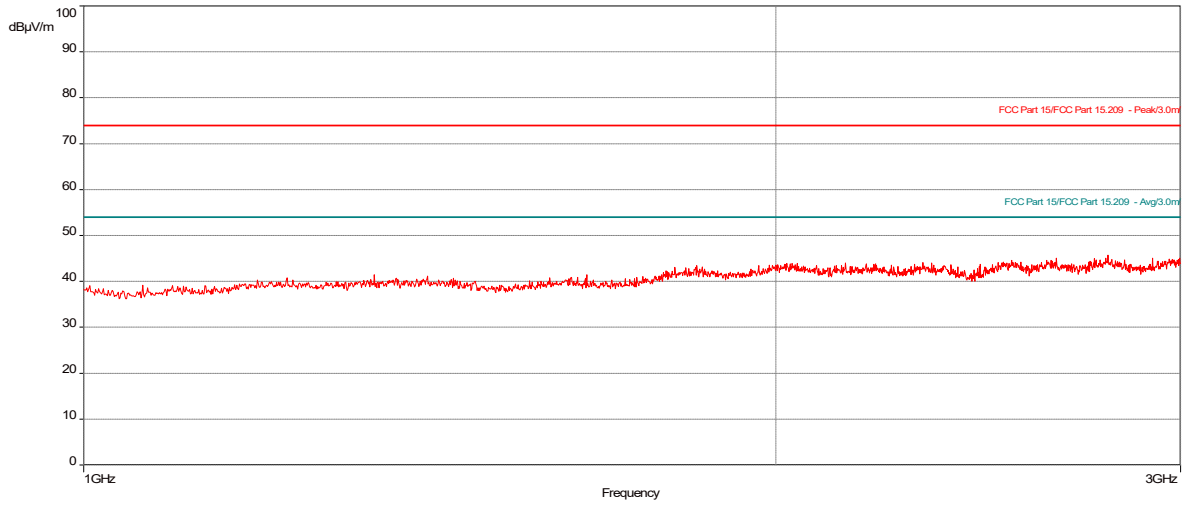
Results: No emission was detected.

Transmit at Mid Channel (EUT on its long side, Z-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/6/2023 7:03:05 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 1 to 3 GHz_Tx Mid CH_Z-Axis

Graph:



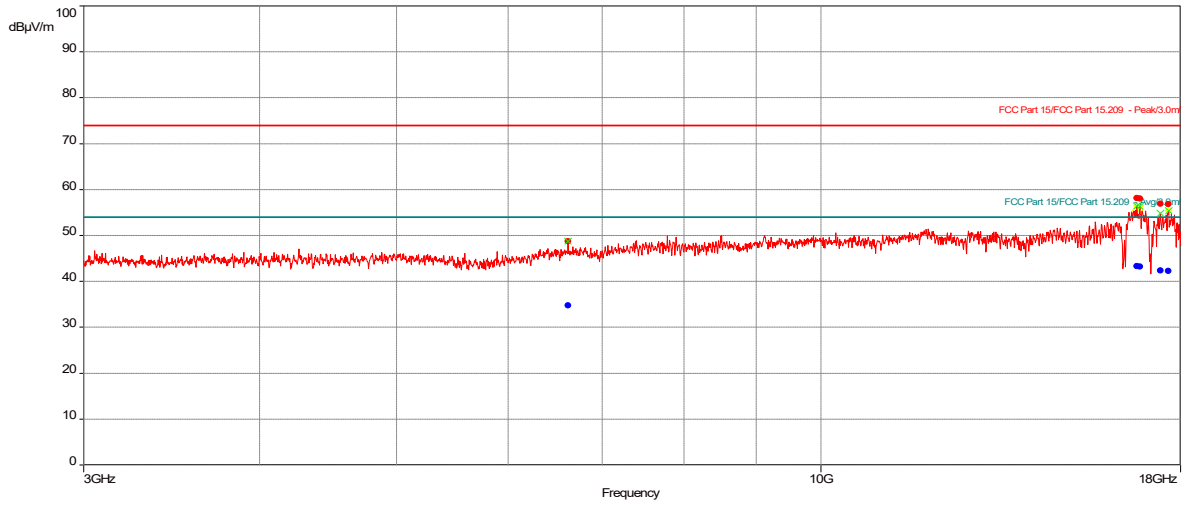
Results: No emission was detected.

Transmit at Mid Channel (EUT on its back) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 7:23:52 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 3 to 18 GHz_Tx Mid CH_X-Axis

Graph:



Results:

Peak (PASS) (5)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6617.85	48.80	74.00	-25.20	265.20	1.00	Vertical	1M	-7.71
16759.4	58.16	74.00	-15.84	265.30	4.00	Horizontal	1M	6.09
16847.25	58.07	74.00	-15.93	360.00	1.00	Vertical	1M	6.22
17418.4	56.91	74.00	-17.09	265.40	4.00	Horizontal	1M	6.03
17648.45	56.84	74.00	-17.16	360.00	1.00	Vertical	1M	6.05

Average (PASS) (5)

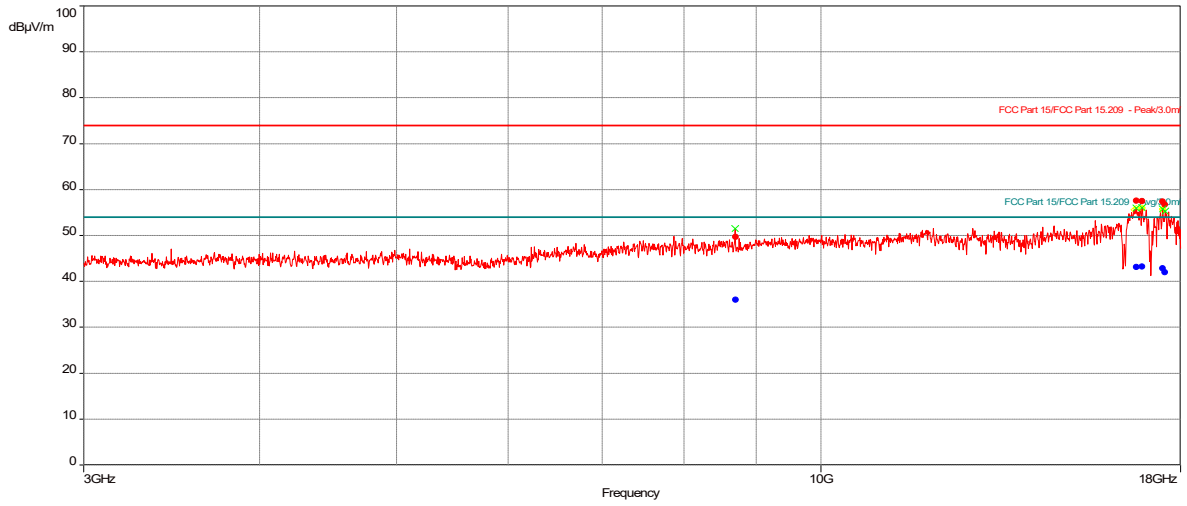
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6617.85	34.78	54.00	-19.22	265.20	1.00	Vertical	1M	-7.71
16759.4	43.37	54.00	-10.63	265.30	4.00	Horizontal	1M	6.09
16847.25	43.23	54.00	-10.77	360.00	1.00	Vertical	1M	6.22
17418.4	42.42	54.00	-11.58	265.40	4.00	Horizontal	1M	6.03
17648.45	42.28	54.00	-11.72	360.00	1.00	Vertical	1M	6.05

Transmit at Mid Channel (EUT on its short side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 8:02:43 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 3 to 18 GHz_Tx Mid CH_Y-Axis

Graph:



Results:

Peak (PASS) (5)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
8699.5	49.72	74.00	-24.28	265.40	4.00	Horizontal	1M	-5.89
16752.7	57.62	74.00	-16.38	265.30	4.00	Horizontal	1M	6.08
16903.8	57.47	74.00	-16.53	0.00	4.00	Horizontal	1M	6.19
17484.1	57.43	74.00	-16.57	360.00	4.00	Horizontal	1M	6.10
17549.4	56.73	74.00	-17.27	0.00	4.00	Horizontal	1M	6.07

Average (PASS) (5)

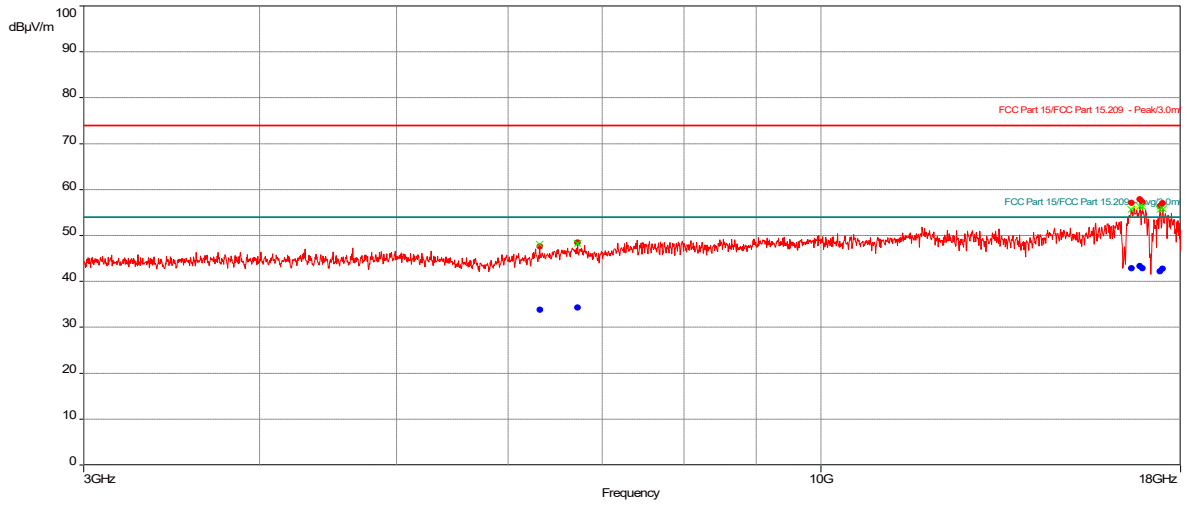
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
8699.5	35.99	54.00	-18.01	265.40	4.00	Horizontal	1M	-5.89
16752.7	43.18	54.00	-10.82	265.30	4.00	Horizontal	1M	6.08
16903.8	43.23	54.00	-10.77	0.00	4.00	Horizontal	1M	6.19
17484.1	42.92	54.00	-11.08	360.00	4.00	Horizontal	1M	6.10
17549.4	41.99	54.00	-12.01	0.00	4.00	Horizontal	1M	6.07

Transmit at Mid Channel (EUT on its long side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 8:38:50 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 3 to 18 GHz_Tx Mid CH_Z-Axis

Graph:



Results:

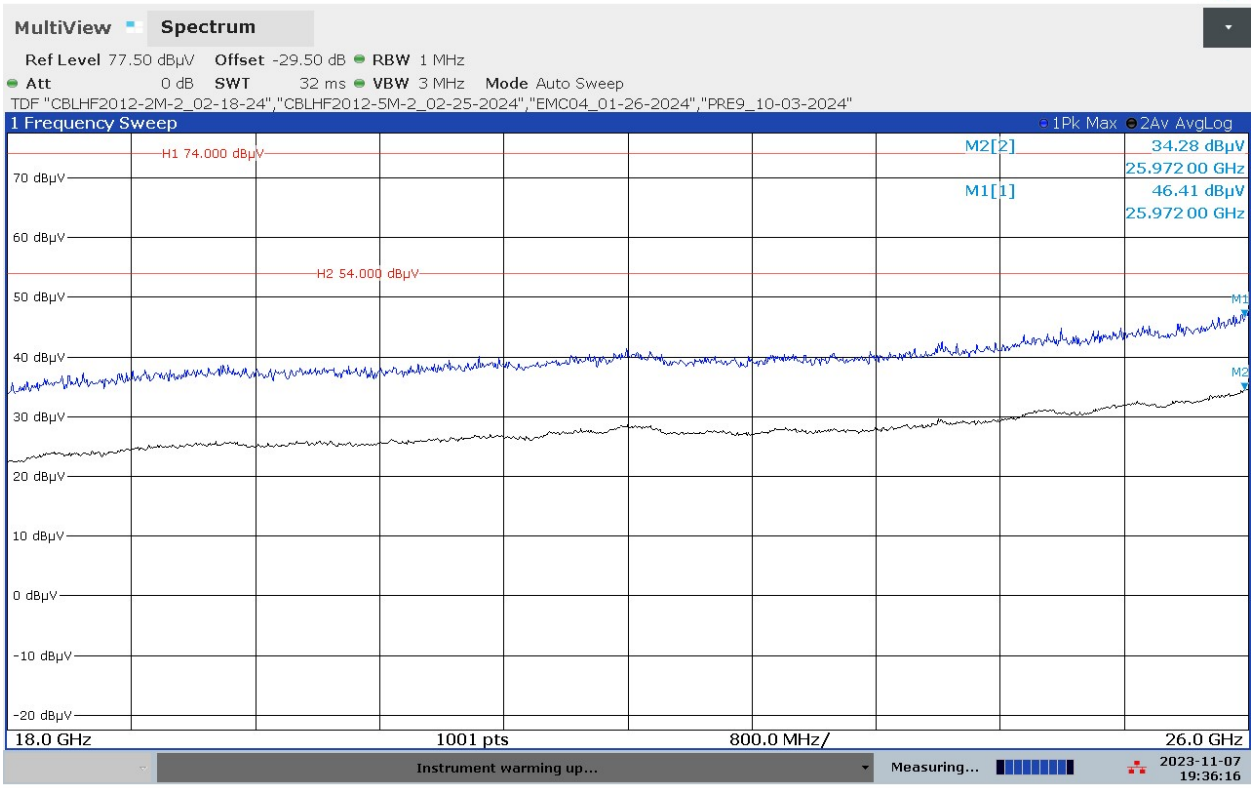
Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6319.95	47.63	74.00	-26.37	265.30	1.00	Horizontal	1M	-7.86
6721.9	48.50	74.00	-25.50	265.30	4.00	Horizontal	1M	-7.59
16613.1	57.14	74.00	-16.86	360.00	1.00	Horizontal	1M	5.53
16849.1	57.93	74.00	-16.07	360.00	4.00	Horizontal	1M	6.22
16911.9	57.27	74.00	-16.73	265.40	1.00	Vertical	1M	6.18
17411.4	56.40	74.00	-17.60	0.00	1.00	Vertical	1M	6.02
17485.7	57.06	74.00	-16.94	360.00	1.00	Horizontal	1M	6.10

Average (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6319.95	33.88	54.00	-20.12	265.30	1.00	Horizontal	1M	-7.86
6721.9	34.35	54.00	-19.65	265.30	4.00	Horizontal	1M	-7.59
16613.1	42.87	54.00	-11.13	360.00	1.00	Horizontal	1M	5.53
16849.1	43.37	54.00	-10.63	360.00	4.00	Horizontal	1M	6.22
16911.9	42.83	54.00	-11.17	265.40	1.00	Vertical	1M	6.18
17411.4	42.22	54.00	-11.78	0.00	1.00	Vertical	1M	6.02
17485.7	42.80	54.00	-11.20	360.00	1.00	Horizontal	1M	6.10

Transmit at Mid Channel (Manual Testing, 3 axis) Radiated Spurious Emissions From 18-26 GHz



07:36:16 PM 11/07/2023

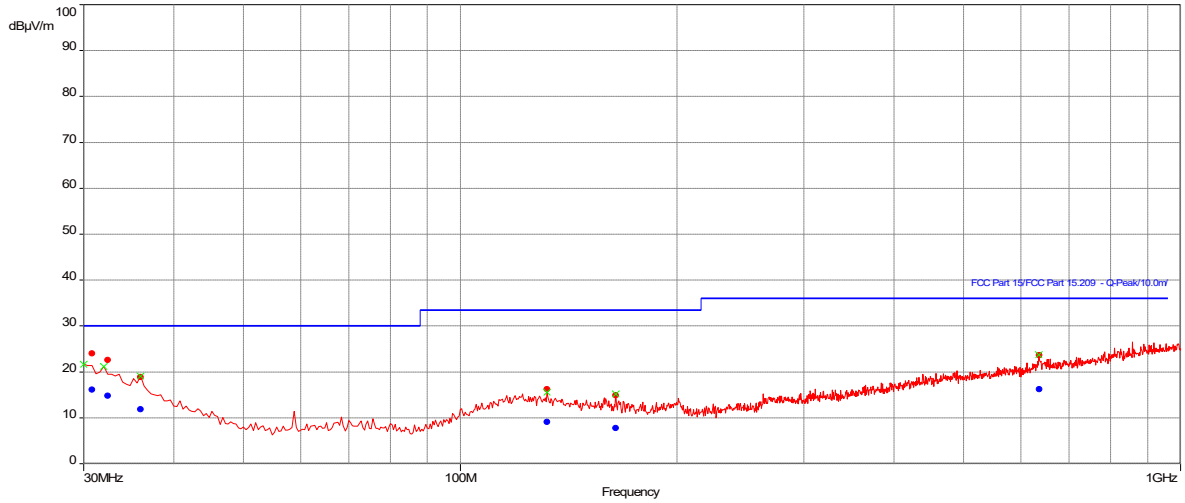
Notes: Antenna factor, cable loss, and distance factor were compensated as dB offset.

Transmit at High Channel (EUT on its back) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 11:58:12 AM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 7_Serial # 311, High Ch (EUT on its back), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.666	24.05	--	--	16.60	2.10	Vertical	120000.00	120k	-12.77
32.294	22.59	--	--	328.90	2.52	Vertical	120000.00	120k	-13.96
36.03	18.88	--	--	141.20	2.52	Horizontal	120000.00	120k	-16.66
131.922	16.24	--	--	0.00	2.52	Vertical	120000.00	120k	-18.48
164.232	14.96	--	--	328.20	3.79	Horizontal	120000.00	120k	-19.77
636.528	23.67	--	--	120.30	3.36	Vertical	120000.00	120k	-9.84

QuasiPeak (PASS) (6)

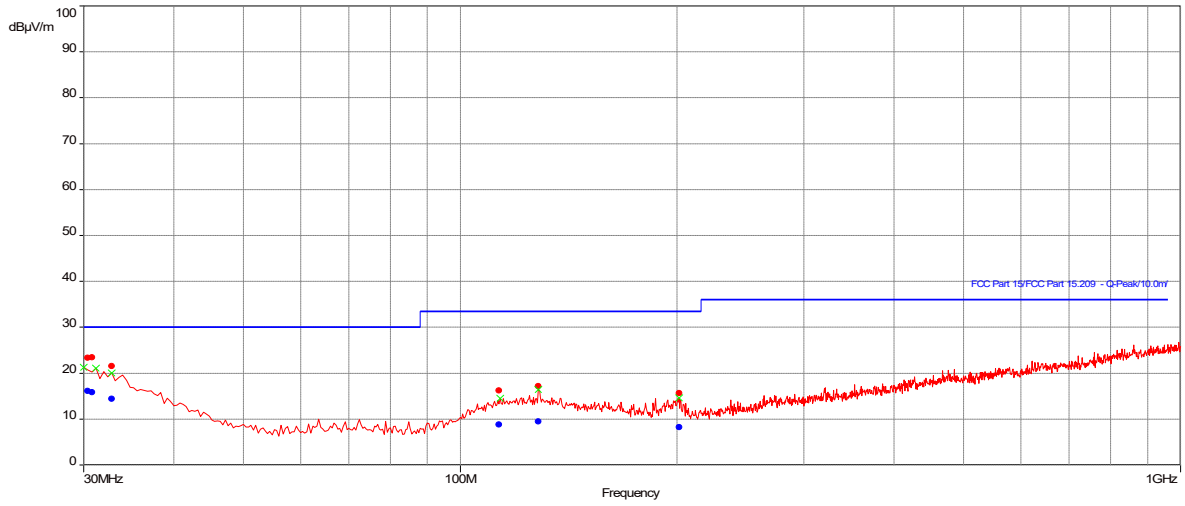
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.666	16.14	30.00	-13.86	16.60	2.10	Vertical	120000.00	120k	-12.77
32.294	14.81	30.00	-15.19	328.90	2.52	Vertical	120000.00	120k	-13.96
36.03	11.85	30.00	-18.15	141.20	2.52	Horizontal	120000.00	120k	-16.66
131.922	9.15	33.50	-24.35	0.00	2.52	Vertical	120000.00	120k	-18.48
164.232	7.78	33.50	-25.72	328.20	3.79	Horizontal	120000.00	120k	-19.77
636.528	16.25	36.00	-19.75	120.30	3.36	Vertical	120000.00	120k	-9.84

Transmit at High Channel (EUT on its short side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 12:28:28 PM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 8_Serial # 311, High Ch (EUT on its short side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.318	23.38	--	--	100.00	2.93	Vertical	120000.00	120k	-12.64
30.99	23.51	--	--	204.20	2.53	Horizontal	120000.00	120k	-12.90
32.866	21.55	--	--	0.00	2.53	Vertical	120000.00	120k	-14.30
113.252	16.29	--	--	79.40	2.95	Vertical	120000.00	120k	-19.12
128.436	17.25	--	--	287.00	2.93	Horizontal	120000.00	120k	-18.36
201.212	15.66	--	--	120.70	3.38	Horizontal	120000.00	120k	-19.28

QuasiPeak (PASS) (6)

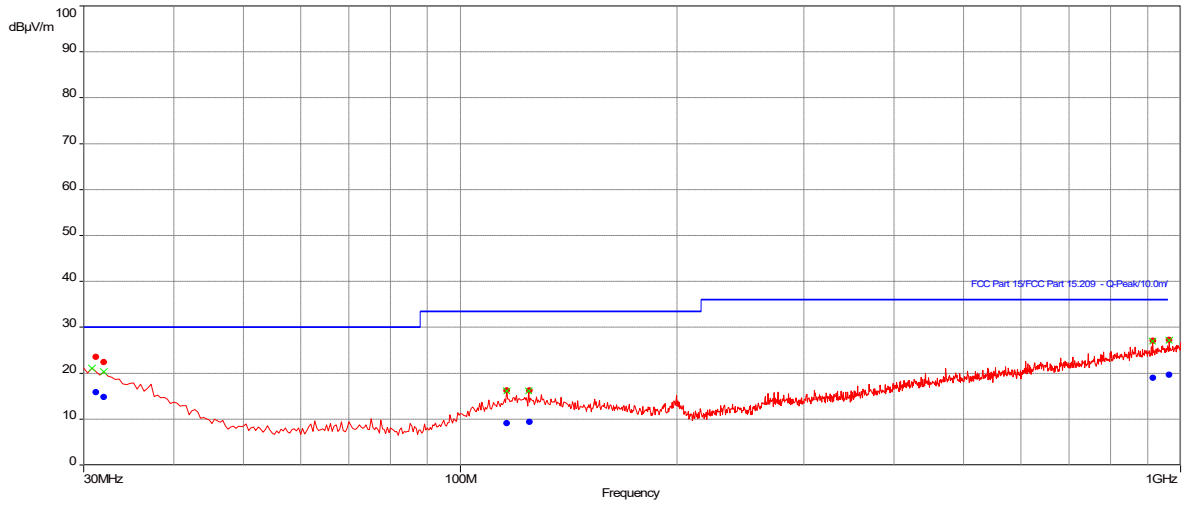
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
30.318	16.18	30.00	-13.82	100.00	2.93	Vertical	120000.00	120k	-12.64
30.99	15.89	30.00	-14.11	204.20	2.53	Horizontal	120000.00	120k	-12.90
32.866	14.43	30.00	-15.57	0.00	2.53	Vertical	120000.00	120k	-14.30
113.252	8.89	33.50	-24.61	79.40	2.95	Vertical	120000.00	120k	-19.12
128.436	9.52	33.50	-23.98	287.00	2.93	Horizontal	120000.00	120k	-18.36
201.212	8.30	33.50	-25.20	120.70	3.38	Horizontal	120000.00	120k	-19.28

Transmit at High Channel (EUT on its long side) Radiated Spurious Emissions From 30-1000 MHz

Test Information:

Date and Time	10/21/2023 12:56:31 PM
Client and Project Number	Insulet Corporation
Engineer	Kouma Sinn
Temperature	25 C
Humidity	49 %
Atmospheric Pressure	983 mbar
Comments	Scan 9_Serial # 311, High Ch (EUT on its long side), RE 30-1000MHz

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
31.04	23.56	--	--	183.30	3.38	Horizontal	120000.00	120k	-12.94
32.162	22.48	--	--	287.30	2.95	Horizontal	120000.00	120k	-13.88
115.988	16.29	--	--	245.40	2.94	Horizontal	120000.00	120k	-18.72
124.664	16.25	--	--	349.00	3.79	Horizontal	120000.00	120k	-18.25
915.01	27.10	--	--	287.20	3.79	Vertical	120000.00	120k	-5.24
964.142	27.33	--	--	360.00	3.80	Vertical	120000.00	120k	-4.45

QuasiPeak (PASS) (6)

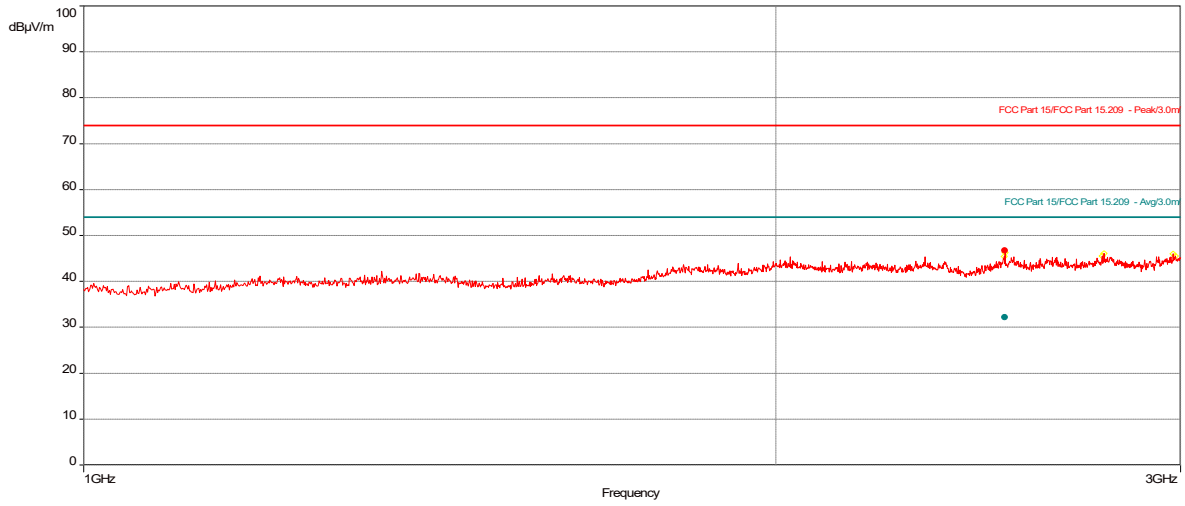
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	RBW	Correction (dB)
31.04	15.91	30.00	-14.09	183.30	3.38	Horizontal	120000.00	120k	-12.94
32.162	14.87	30.00	-15.13	287.30	2.95	Horizontal	120000.00	120k	-13.88
115.988	9.10	33.50	-24.40	245.40	2.94	Horizontal	120000.00	120k	-18.72
124.664	9.40	33.50	-24.10	349.00	3.79	Horizontal	120000.00	120k	-18.25
915.01	18.99	36.00	-17.01	287.20	3.79	Vertical	120000.00	120k	-5.24
964.142	19.64	44	-24.36	360.00	3.80	Vertical	120000.00	120k	-4.45

Transmit at High Channel (EUT on its back, X-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 4:15:41 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx High CH_X-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2514.65	46.75	74.00	-27.25	348.00	1.00	Horizontal	1M	-14.98

Average (PASS) (1)

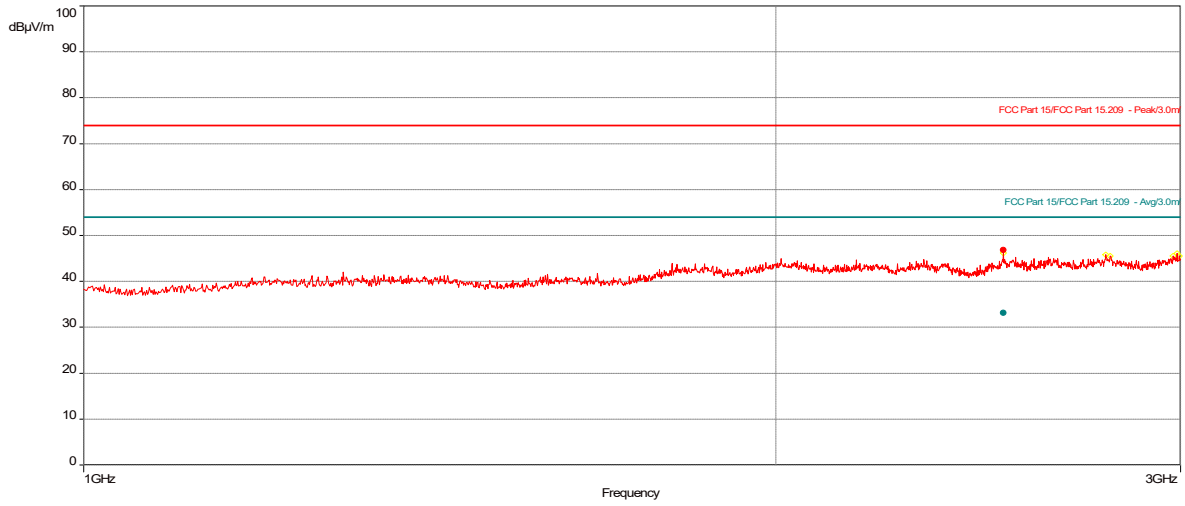
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2514.65	32.27	54.00	-21.73	348.00	1.00	Horizontal	1M	-14.98

Transmit at High Channel (EUT on its short side, Y-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 4:24:51 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx High CH_Y-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2511.7	46.87	74.00	-27.13	360.00	1.00	Vertical	1M	-14.96

Average (PASS) (1)

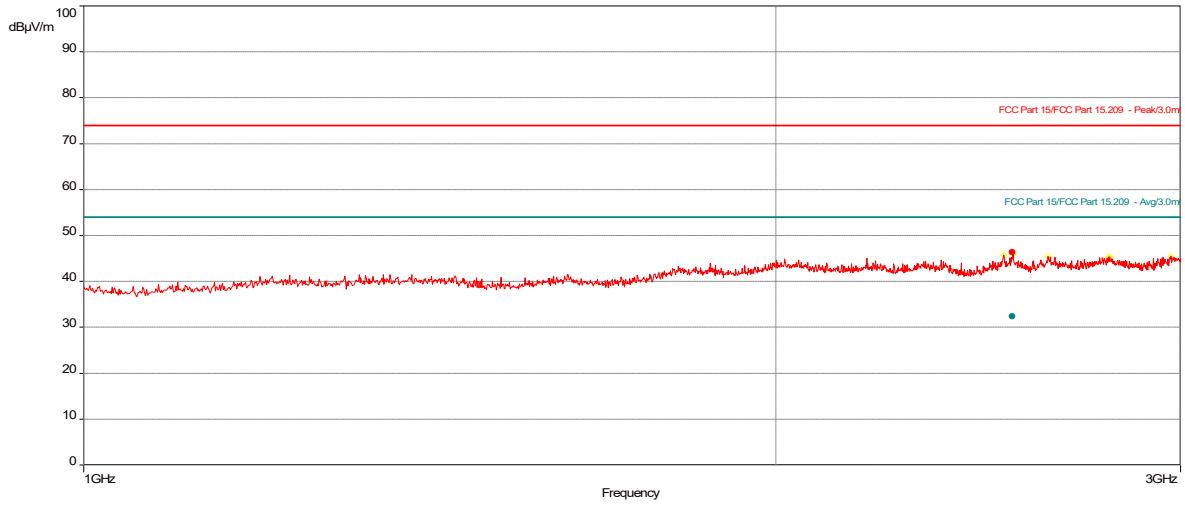
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2511.7	33.20	54.00	-20.80	360.00	1.00	Vertical	1M	-14.96

Transmit at High Channel (EUT on its long side, Z-axis) Radiated Spurious Emissions From 1-3 GHz

Test Information:

Date and Time	11/7/2023 4:34:34 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 1 to 3 GHz_Tx High CH_Z-Axis

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2534.4	46.37	74.00	-27.63	230.70	4.00	Horizontal	1M	-15.03

Average (PASS) (1)

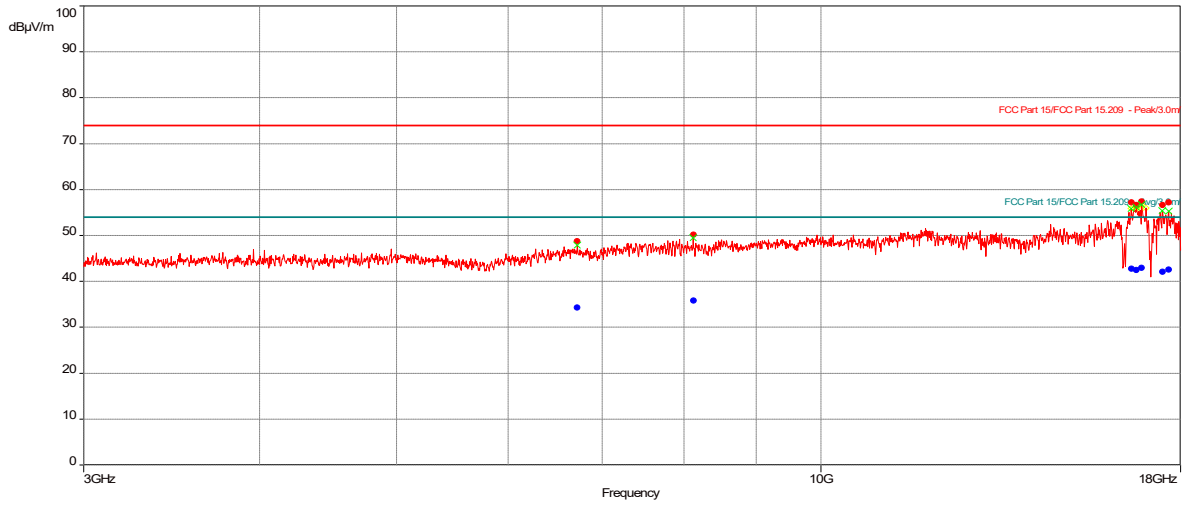
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
2534.4	32.41	54.00	-21.59	230.70	4.00	Horizontal	1M	-15.03

Transmit at High Channel (EUT on its back) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/7/2023 10:59:49 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	27 deg C
Humidity	34%
Atmospheric Pressure	994 mB
Comments	RE 3 to 18 GHz_Tx High CH_X-Axis

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6719.1	48.81	74.00	-25.19	360.00	1.00	Horizontal	1M	-7.60
8123.15	50.24	74.00	-23.76	360.00	1.00	Vertical	1M	-6.22
16611.45	57.22	74.00	-16.78	265.30	1.00	Vertical	1M	5.52
16744.7	56.70	74.00	-17.30	265.20	4.00	Vertical	1M	6.06
16895.3	57.46	74.00	-16.54	360.00	4.00	Horizontal	1M	6.19
17474.95	56.66	74.00	-17.34	0.00	4.00	Vertical	1M	6.10
17652.4	57.23	74.00	-16.77	360.00	1.00	Horizontal	1M	6.06

Average (PASS) (7)

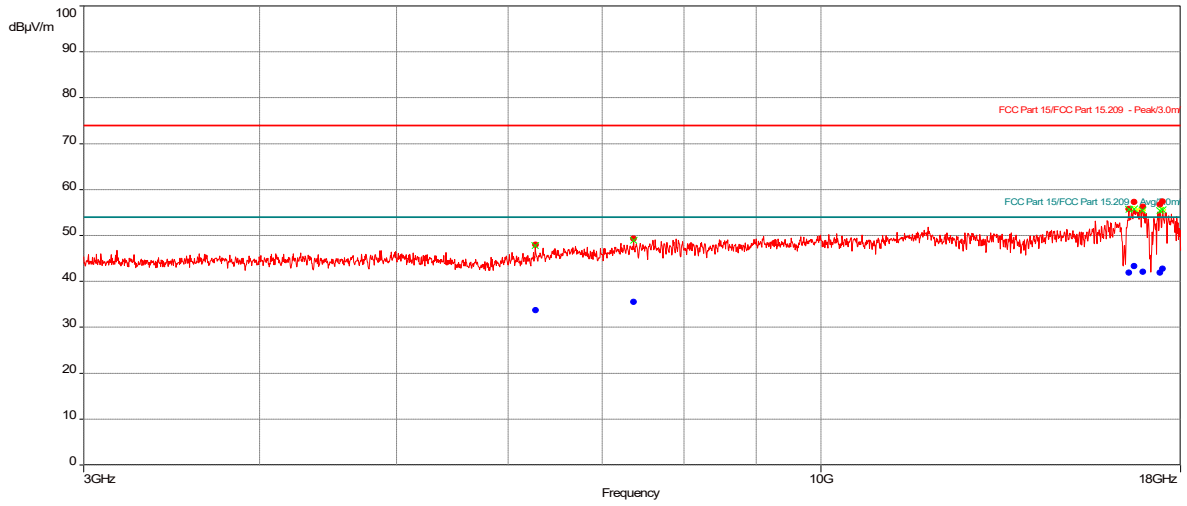
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6719.1	34.30	54.00	-19.70	360.00	1.00	Horizontal	1M	-7.60
8123.15	35.86	54.00	-18.14	360.00	1.00	Vertical	1M	-6.22
16611.45	42.74	54.00	-11.26	265.30	1.00	Vertical	1M	5.52
16744.7	42.45	54.00	-11.55	265.20	4.00	Vertical	1M	6.06
16895.3	42.97	54.00	-11.03	360.00	4.00	Horizontal	1M	6.19
17474.95	42.10	54.00	-11.90	0.00	4.00	Vertical	1M	6.10
17652.4	42.58	54.00	-11.42	360.00	1.00	Horizontal	1M	6.06

Transmit at High Channel (EUT on its short side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 10:16:06 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 3 to 18 GHz_Tx High CH_Y-Axis

Graph:



Results:

Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6278.4	48.02	74.00	-25.98	265.20	1.00	Vertical	1M	-7.97
7368.1	49.38	74.00	-24.62	0.00	4.00	Vertical	1M	-6.87
16542.4	55.83	74.00	-18.17	360.00	4.00	Horizontal	1M	5.34
16689.3	57.36	74.00	-16.64	360.00	1.00	Horizontal	1M	5.88
16923.35	56.31	74.00	-17.69	265.10	4.00	Horizontal	1M	6.16
17411.85	56.78	74.00	-17.22	360.00	4.00	Vertical	1M	6.02
17480.05	57.46	74.00	-16.54	360.00	1.00	Horizontal	1M	6.10

Average (PASS) (7)

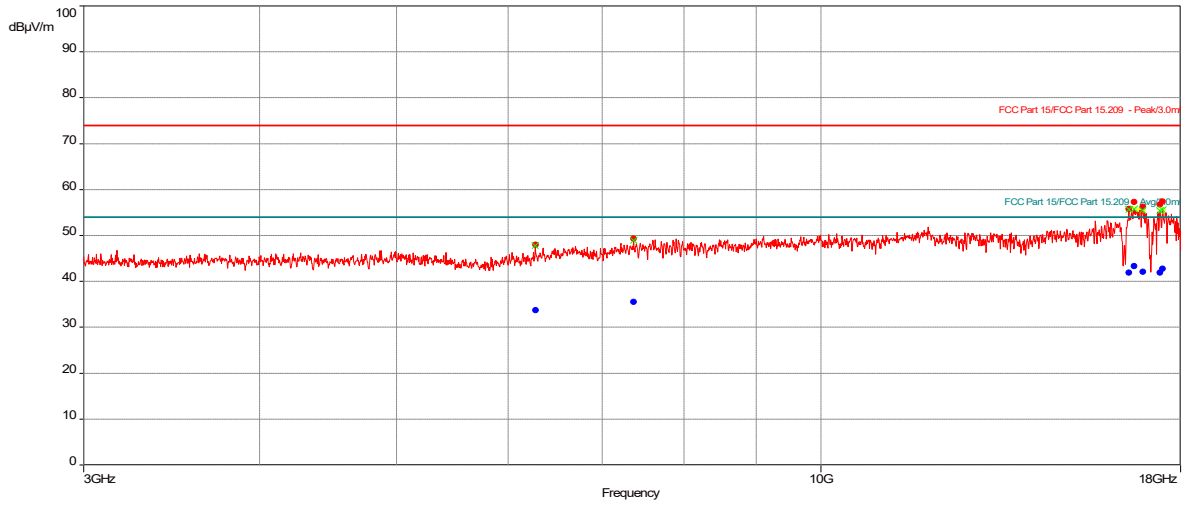
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6278.4	33.77	54.00	-20.23	265.20	1.00	Vertical	1M	-7.97
7368.1	35.52	54.00	-18.48	0.00	4.00	Vertical	1M	-6.87
16542.4	41.90	54.00	-12.10	360.00	4.00	Horizontal	1M	5.34
16689.3	43.34	54.00	-10.66	360.00	1.00	Horizontal	1M	5.88
16923.35	42.11	54.00	-11.89	265.10	4.00	Horizontal	1M	6.16
17411.85	41.97	54.00	-12.03	360.00	4.00	Vertical	1M	6.02
17480.05	42.78	54.00	-11.22	360.00	1.00	Horizontal	1M	6.10

Transmit at High Channel (EUT on its long side) Radiated Spurious Emissions From 3-18 GHz

Test Information:

Date and Time	11/6/2023 10:16:06 PM
Client and Project Number	Insulet_G105595039
Engineer	Vathana Ven
Temperature	25 deg C
Humidity	26%
Atmospheric Pressure	1009 mB
Comments	RE 3 to 18 GHz_Tx High CH_Y-Axis

Graph:



Results:

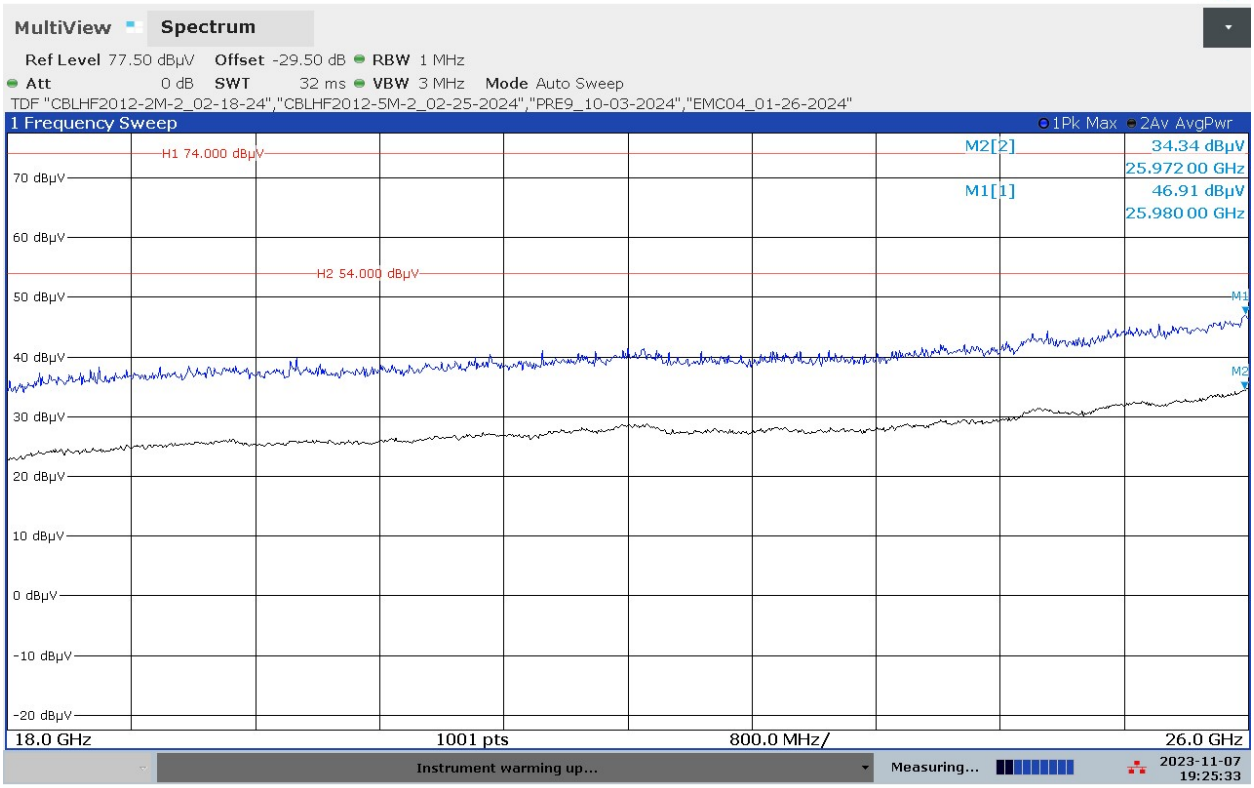
Peak (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6278.4	48.02	74.00	-25.98	265.20	1.00	Vertical	1M	-7.97
7368.1	49.38	74.00	-24.62	0.00	4.00	Vertical	1M	-6.87
16542.4	55.83	74.00	-18.17	360.00	4.00	Horizontal	1M	5.34
16689.3	57.36	74.00	-16.64	360.00	1.00	Horizontal	1M	5.88
16923.35	56.31	74.00	-17.69	265.10	4.00	Horizontal	1M	6.16
17411.85	56.78	74.00	-17.22	360.00	4.00	Vertical	1M	6.02
17480.05	57.46	74.00	-16.54	360.00	1.00	Horizontal	1M	6.10

Average (PASS) (7)

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Correction (dB)
6278.4	33.77	54.00	-20.23	265.20	1.00	Vertical	1M	-7.97
7368.1	35.52	54.00	-18.48	0.00	4.00	Vertical	1M	-6.87
16542.4	41.90	54.00	-12.10	360.00	4.00	Horizontal	1M	5.34
16689.3	43.34	54.00	-10.66	360.00	1.00	Horizontal	1M	5.88
16923.35	42.11	54.00	-11.89	265.10	4.00	Horizontal	1M	6.16
17411.85	41.97	54.00	-12.03	360.00	4.00	Vertical	1M	6.02
17480.05	42.78	54.00	-11.22	360.00	1.00	Horizontal	1M	6.10

Transmit at High Channel (Manual Testing, 3 axis) Radiated Spurious Emissions From 18-26 GHz



07:25:34 PM 11/07/2023

Notes: Antenna factor, cable loss, and distance factor were compensated as dB offset.

Product Standard: CFR47 FCC Part 15.247 & RSS-247				Limit applied: See Report Section 8.3 Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
10/21/2023	Kouma Sinn KPS	Vathana F. Ven VFV	Internal Battery	Continuous Transmitting	25	49	983
11/07/2023	Vathana F. Ven VFV	Kouma Sinn KPS	Internal Battery	Continuous Transmitting	27	34	994

Deviations, Additions, or Exclusions: None

9 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	11/08/2023	105595039BOX-006	KPS	VFV	Original Issue