

EMC TEST REPORT



Standard(s):

**47 CFR FCC Part 15.247
RSS 247, Issue 3, 2023**

**FCC ID:Y9ZMRX21A1WS7
IC:4406A-MRX21A1WS7**

Product: WS™ ALERT™ XPV Headset (BLE)

Model(s): MRX21A1WS7-NA

**Company Name:
3M Svenska AB**

3M Division: PSD

**Address:
Box 2341, Malmstengatan 19
SE-33102 Värnamo, Sweden**

**Report Number: HRE202303408-4
Report Issue Date: September 12, 2024**

Report Prepared by:

Signature: 
**Yuriy Litvinov
Lead EMC Engineer**

**Tested by:
3M Company, Hardgoods Regulatory Engineering Laboratory
410 E. Fillmore Avenue, Building 76
St. Paul, Minnesota 55107-1208, USA**

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3M	3M EMC Laboratory	Report Number: HRE202303408-4 Date: September 12, 2024	Page 3 of 24
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1.0 Test Summary

Based on the results of our investigation, we have concluded the product tested **comply** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

	Requirement – Test	Test Description	Result	Comments
4.1	FCC Part 15.247(a)(2)/ RSS-247(5.2(a))/RSS-Gen (6.7)	DTS Bandwidth	pass	
4.2	FCC Part 15.247(b)(3)/ RSS-247(5.4(d))	Maximum Peak Conducted Output Power	pass	
4.3	FCC Part 15.247(e)/ RSS-247(5.2(b))	Maximum Power Spectral Density level	pass	
4.4	FCC Part 15.209 RSS-Gen, 8.9	Radiated Emissions in restricted band	pass	
4.5	FCC Part 15.247(d)/ RSS-247(5.5)	Radiated Emissions in non-restricted band	pass	
4.6	FCC Part 15.247(d)(1)/ RSS-247(5.5)	DTS Band-edge Emissions Measurements	pass	
4.7	FCC Part 15.207/ RSS-Gen (8.8)	Conducted Emissions	pass	
4.8	FCC Part 15.247(i)/ RSS 102 Issue 5	RF Exposure Compliance	pass	

Note:	
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1.1 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements. The measurement uncertainty figures were calculated and correspond to a coverage factor of k=2, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Radiated emissions 30MHz to 1000MHz	4.9 dB
Radiated emissions 1GHz to 18GHz	4.6 dB
Conducted emissions 150KHz to 30MHz (AMN)	2.7 dB
Conducted emissions 150KHz to 30MHz (AAN)	1.92 dB
RF frequency	$\pm 3 \times 10^{-8}$
RF power, conducted	1.4 dB
RF Power Spectral Density	0.96 dB

1.2 Test Facility

Test Facility Accreditations:	ISO/IEC 17025:2017, NVLAP LAB CODE: 200033-0
	FCC US502
	ISED Canada CAB identifier: US0012



2.0 Equipment Description

2.1	Equipment Under Test			
Description:	WS ALERT XPV Headset helps protect against hazardous noise, has Bluetooth wireless communication, noise-cancelling boom microphone, and level-dependent function for ambient listening.			
Model(s):	MRX21A1WS7-NA			
Serial number:	128837-2			
3M Division:	Personal Safety			
Modifications and Special Measures:	none			
Frequency Range:	2402.0-2480.0 MHz			
Channel No.:	39			
Modulation Type:	GFSK			
FCC Classification:	Digital Transmission System (DTS)			
Output Power EIRP:	3.7dBm (2.3mW), (1dBm Conducted RF Power)			
Antenna Type and Antenna Assembly Gain:	<input type="checkbox"/> External	<input checked="" type="checkbox"/> Integral PCB Antenna	<input type="checkbox"/> Dedicated	
	<input checked="" type="checkbox"/> 2.7dBi	<input type="checkbox"/> Declared by the Manufacturer	<input checked="" type="checkbox"/> Measured	
Test Deviations or Exclusions	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Rated Power:	Voltage:	<input checked="" type="checkbox"/> 120VAC	<input type="checkbox"/> 230VAC	<input checked="" type="checkbox"/> 3VDC
	Phase:	<input type="checkbox"/> 1ph	<input type="checkbox"/> 3ph	<input checked="" type="checkbox"/> USB-C
	Frequency:	<input type="checkbox"/> 50Hz	<input checked="" type="checkbox"/> 60Hz	
	Current:	N/A		
Test Dates:	02/05-02/13/2024			
Received Date:	01/15/2024			
Received Conditions:	<input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Good		
	<input checked="" type="checkbox"/> Prototype	<input type="checkbox"/> Production		

3.0 EUT Configuration

3.1 System Configuration

No.	Product Type	Manufacturer	Model	Comments
1	EUT	3M	MRX21A1WS7	
2	USB Charger	Apple	M1385	Support Equipment
3	Programming interface	Qualcomm	TRBI200	Support Equipment

3.2 Input/Output Ports of EUT

No.	Description	Type	Comments
1	DC Power	USB-C	
2			

3.3 Cables

No.	Description	Type	Length	Shielding	Comments
1	USB-C	USB 2.0	1m	Yes	
2					

3.4 Measurement Arrangements of EUT

	Intended Operational Arrangement(s)	Comments
<input checked="" type="checkbox"/>	Table-top only	
<input type="checkbox"/>	Floor-standing only	
<input type="checkbox"/>	Floor-standing or table-top	
<input checked="" type="checkbox"/>	Other	Body-worn

3.5 Primary function(s) of EUT

No.	List of Essential Functions
1	Voice communications and audio listing over Bluetooth.
2	

3.6 Exercising of EUT and Interfaces

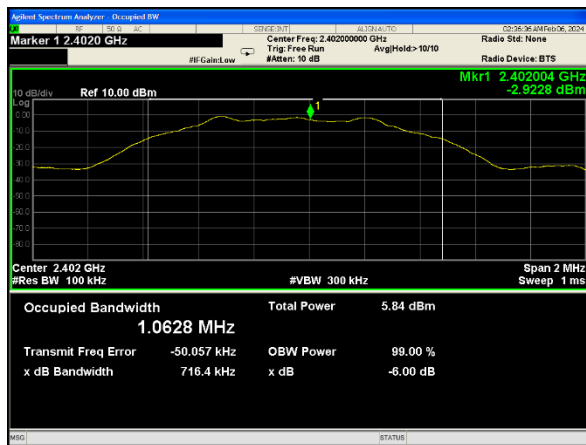
No.	Mode of Operation
1	Transmitting at lowest (0), middle (19) and highest (39) channels of operation with unmodulated CW carrier
2	Continuous transmission of modulated signal at lowest (0), middle (19) and highest (39) channels
3	Device programming using Qualcomm Bluesuit WIN.3.3 software for continuous transmission of modulated carrier at maximum rated RF output power and Duty Cycle.



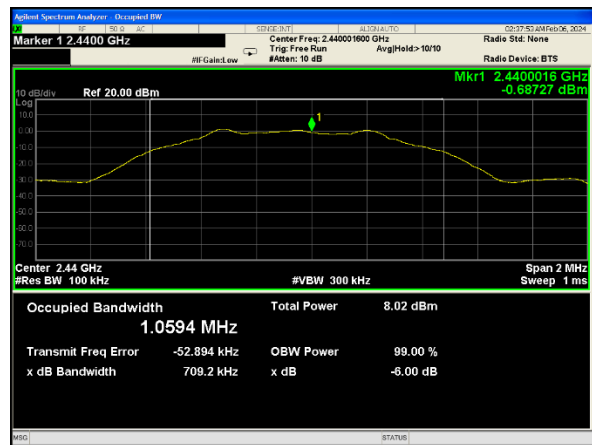
4.0 Test Conditions and Results

4.1	DTS Bandwidth		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	48%	
	Atmospheric Pressure:	1011 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.8.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074		Measurement Point <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated
Frequency Range:	<input checked="" type="checkbox"/> 2402.0-2480.0 MHz		RBW = 100KHz VBW ≥ 3 x RBW
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 02/06/2024

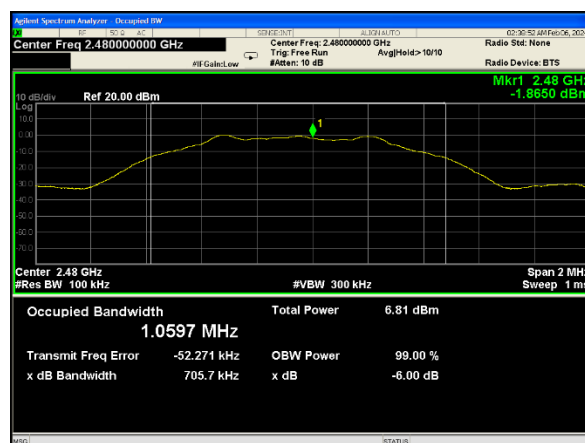
Frequency (MHz)	Data Rate	99% dB Bandwidth (KHz)	6 dB Bandwidth (KHz)	6dB OBW Limit (KHz)	Results
2402	1 Mbps	1.0628	716.4	> 500	pass
2440	1 Mbps	1.0594	709.2	> 500	pass
2480	1 Mbps	1.0597	705.7	> 500	pass



OBW – Low Channel



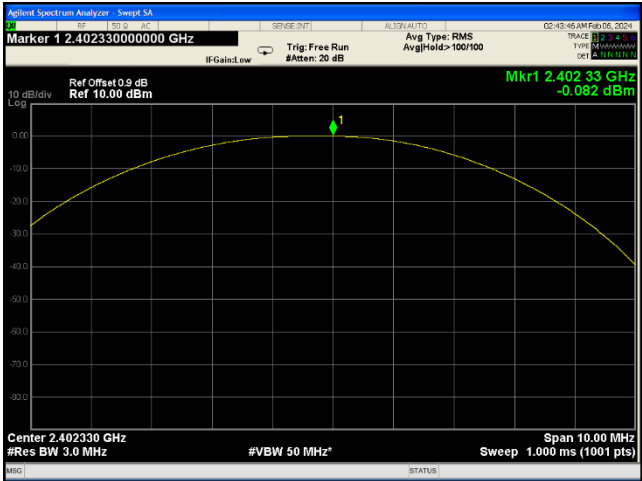
OBW – Mid Channel



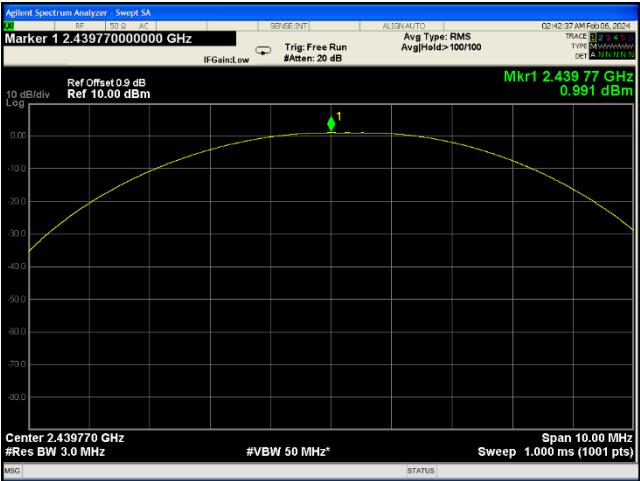
OBW – High Channel

4.2	Maximum Output Power		
Method:	Measurements was performed with CW carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses.		
		Laboratory Ambient Temperature:	23°C
		Relative Humidity:	48%
		Atmospheric Pressure:	1011 mbars
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.9 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	Measurement Point <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2402.0 – 2480.0 MHz		
Antenna Gain:	2.7dBi	Maximum Power (EIRP):	
Limit:	30 dBm	3.7dBm (2.3mW)	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>	Date: 02/06/2024	

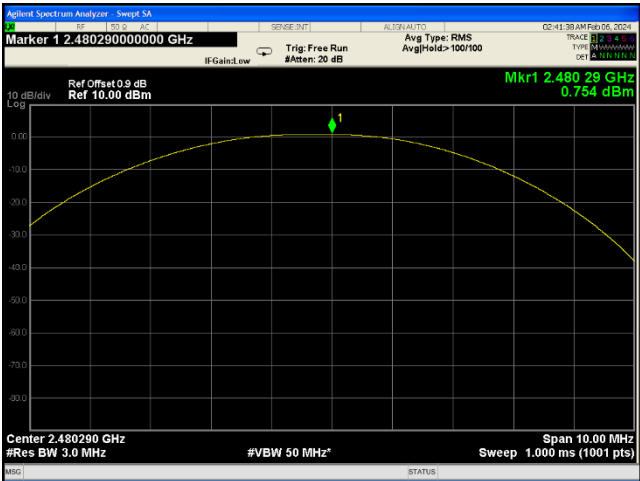
Note:	$\text{EIRP (dBm)} = \text{Conducted Power (dBm)} + \text{Antenna Gain (dBi)} = 1.0 + 2.7 = 3.7\text{dBm}$
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Low Channel

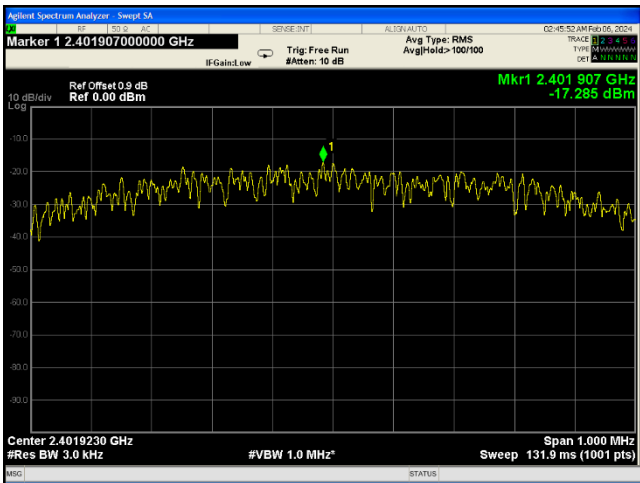


Mid Channel

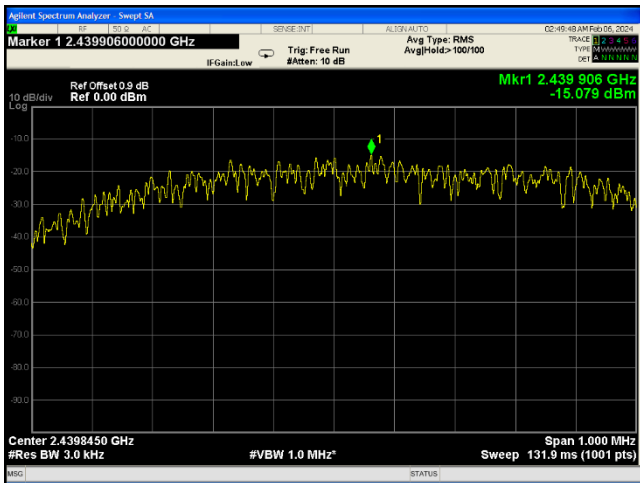


High Channel

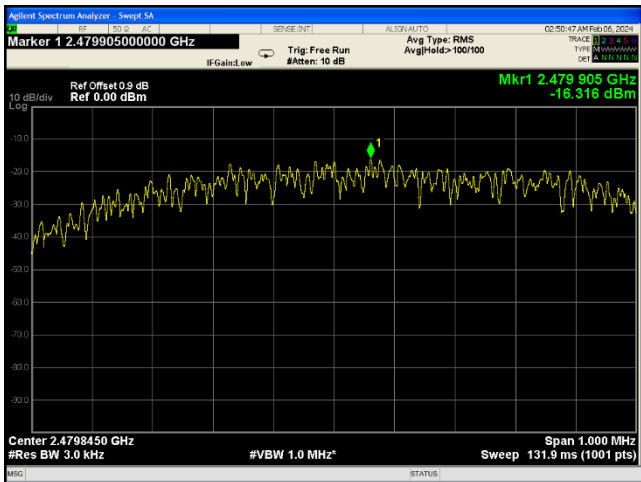
4.3	Maximum Power Spectral Density level		
Method:	Measurements was performed with modulated carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses.		
		Laboratory Ambient Temperature:	23°C
		Relative Humidity:	48%
		Atmospheric Pressure:	1011 mbars
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.10.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	Measurement Point <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2402.0 – 2480.0 MHz	PSD Results	
PSD Limit:	8 dBm in any 3KHz band	-15.1dBm	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 02/06/2024



PSD Low Channel



PSD Mid Channel



PSD High Channel

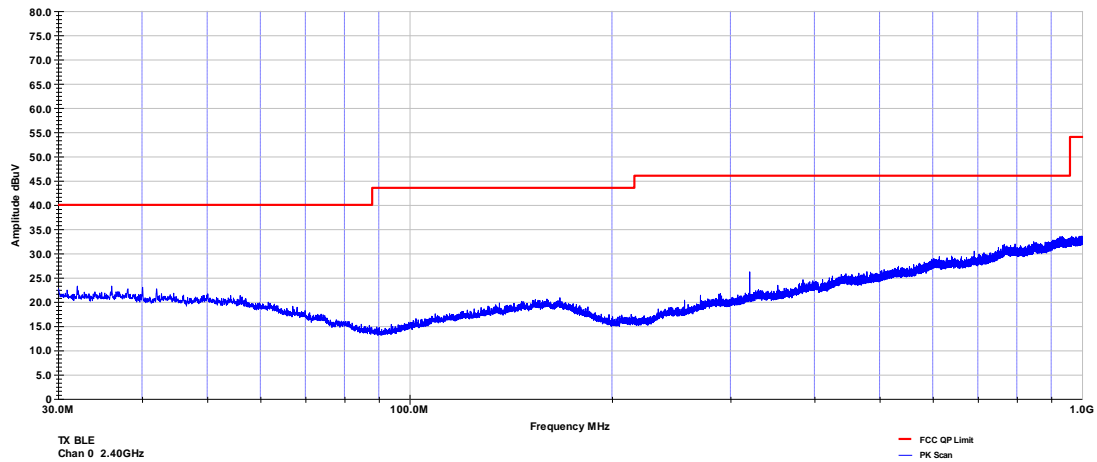
4.4	Radiated Emissions in restricted band					
Method:	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4 standards. EUT was rotated through three orthogonal axes to determine which attitude (orientation) and arrangement produces the highest emission relative to the limit; the attitude and device arrangement that produces the highest emission relative to the limit was used in making final radiated emission measurements. Spurious Radiated emissions measurements were performed with external preamp and a high pass filter. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.					
Test Verification: <input checked="" type="checkbox"/>		Laboratory Ambient Temperature:		23°C		
		Relative Humidity:		55%		
		Atmospheric Pressure:		1011 mbars		
Reference Standard(s):		<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.12.1 <input checked="" type="checkbox"/> FCC Part 15.205/15.209/RSS Gen (8.9) <input checked="" type="checkbox"/> KDB 558074		Measurement Distance		
				<input checked="" type="checkbox"/> 3 Meters <input type="checkbox"/>		
Frequency Range:		<input checked="" type="checkbox"/> 30 MHz to 1 GHz		RBW = 100KHz, VBW ≥ 3 x RBW		
		<input checked="" type="checkbox"/> 1 GHz to 25 GHz		RBW = 1MHz, VBW ≥ 3 x RBW		
Nominal Voltage:		<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC				
Test Personnel:		Keith Schwartz <i>KS</i>			Date: 02/08/2024	
Limits –15.209 and RSS Gen						
Frequency (MHz)		Limit dB (µV/m)			Distance	Results
		Quasi-Peak	Average	Peak		
0.009-0.490			2400/F(KHz)		300	N/A
0.490-1.705		24000/F(KHz)			30	N/A
1.705-30		30			30	N/A
30 to 88		40			3	pass
88 to 216		43.5			3	pass
216 to 960		46			3	pass
Above 960			54	74	3	pass

Modifications:	
Note:	<p>The lower limit applies at the transition frequency. An inverse proportionality factor of 20 dB per decade has been used to normalize the measured data to the specified distance for determining compliance</p> <p>For emission in the restricted bands, the limit of 15.209 was used.</p> <p>There are no emissions were detected in the 15.205 restricted band within 30dB below 15.209 limit adjacent or nearby to 2400-2483.5MHz frequency band during operation at the high channel.</p> <p>No radiated spurious emissions were detected above 18GHz</p>



3M Company
Radiated Emissions
FCC Part 15, Class B, Vertical

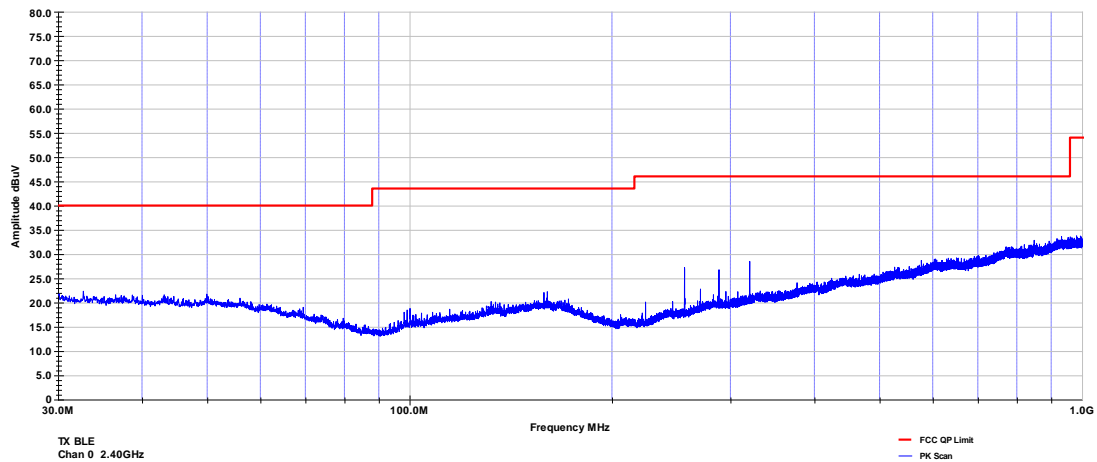
Project # - HRE202303408
Model # - Peltor WS Alert X
Serial # - USA 1 (Prototype)
EUT Power - 3 VDC Battery



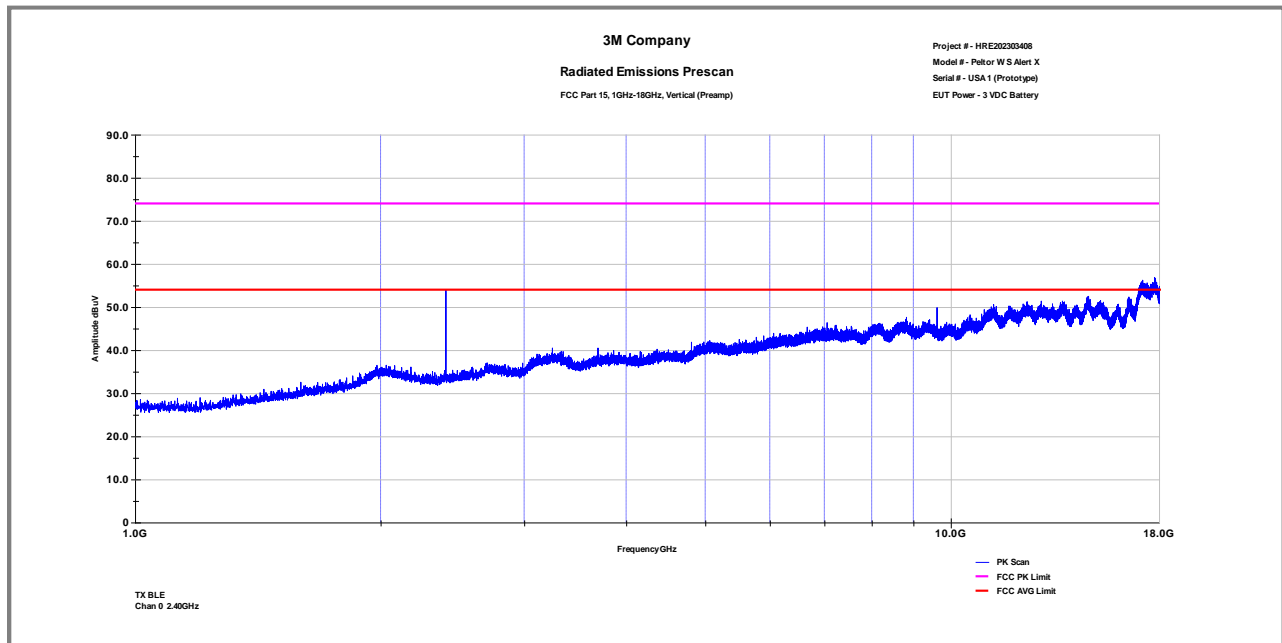
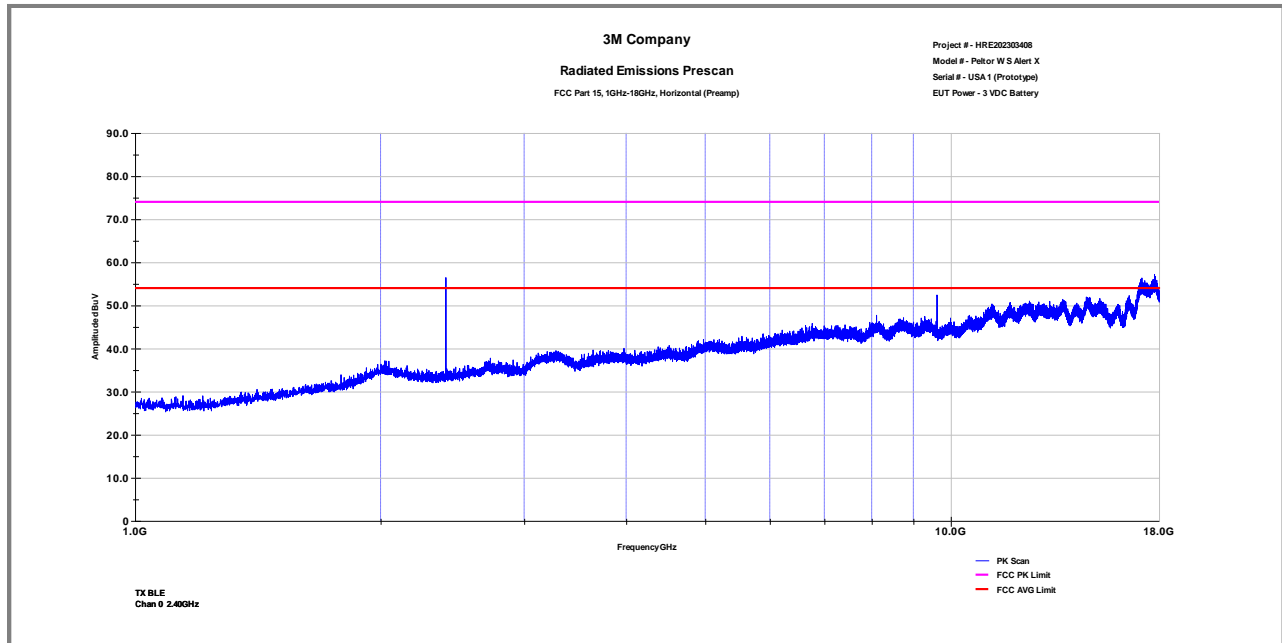
3M Company

Radiated Emissions
FCC Part 15, Class B, Horizontal

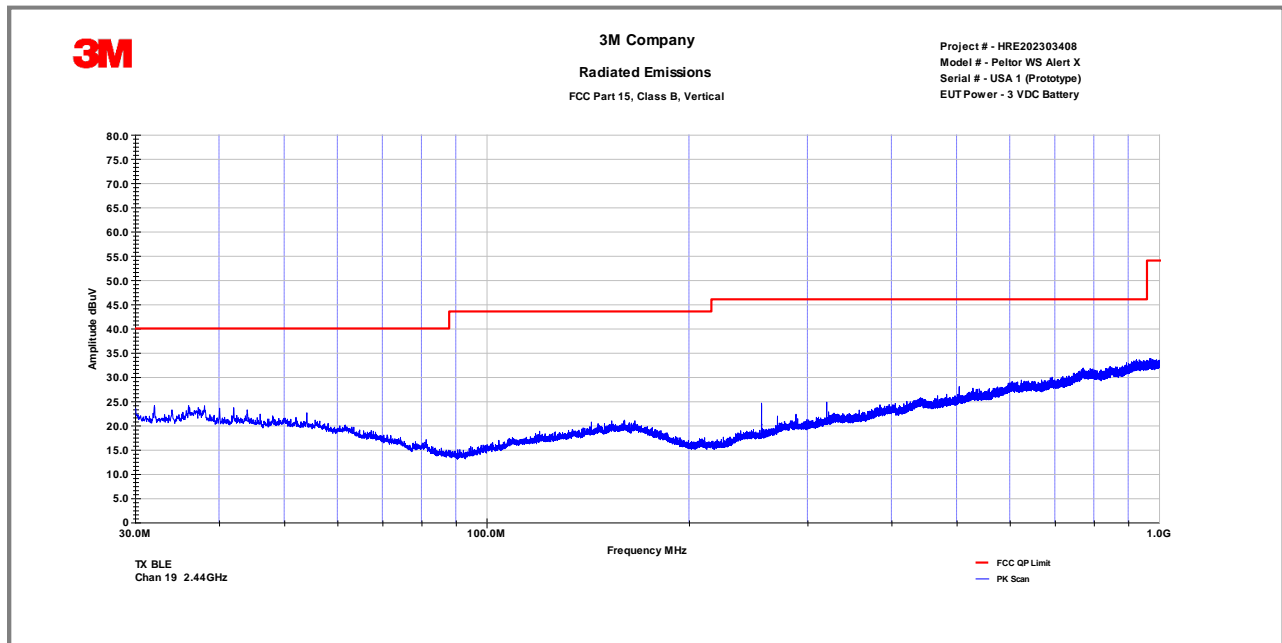
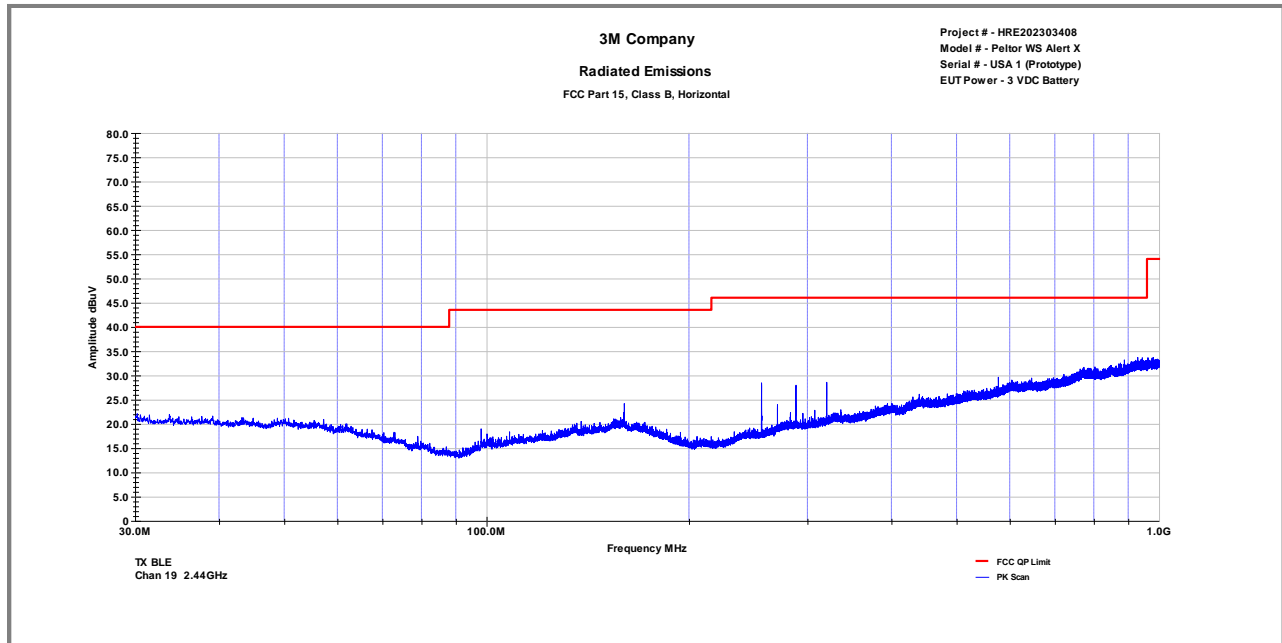
Project # - HRE202303408
Model # - Peltor WS Alert X
Serial # - USA 1 (Prototype)
EUT Power - 3 VDC Battery



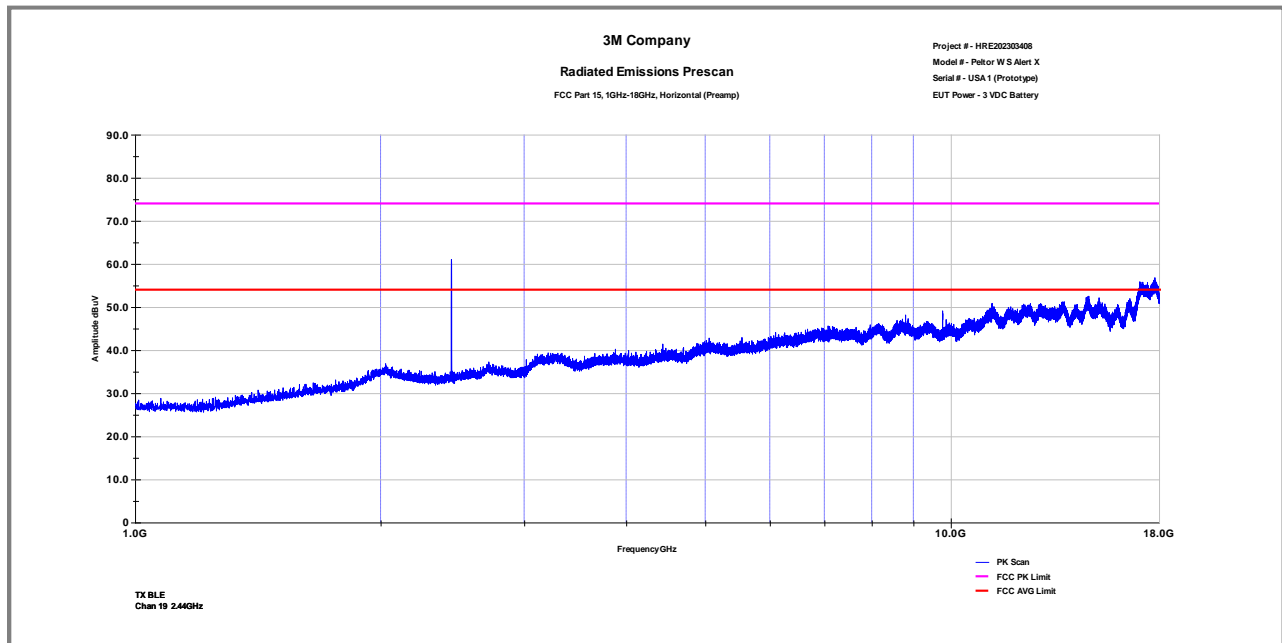
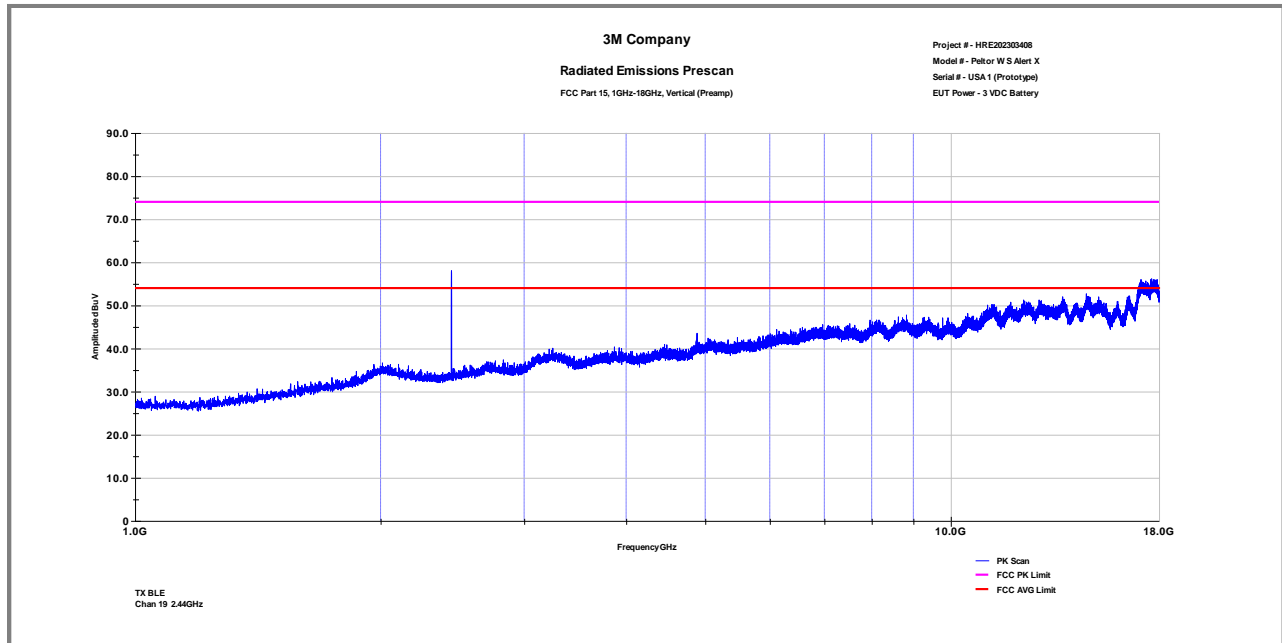
FCC Part 15.209 Radiated Emissions in restricted band – Low Channel



FCC Part 15.209 Radiated Emissions in restricted band – Low Channel



FCC Part 15.209 Radiated Emissions in restricted band – Mid Channel

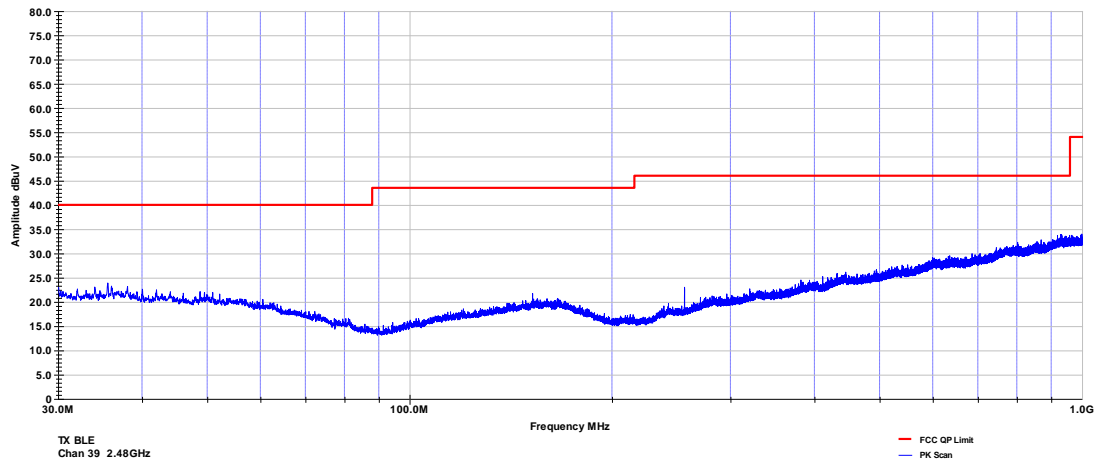


FCC Part 15.209 Radiated Emissions in restricted band – Mid Channel



3M Company
Radiated Emissions
 FCC Part 15, Class B, Vertical

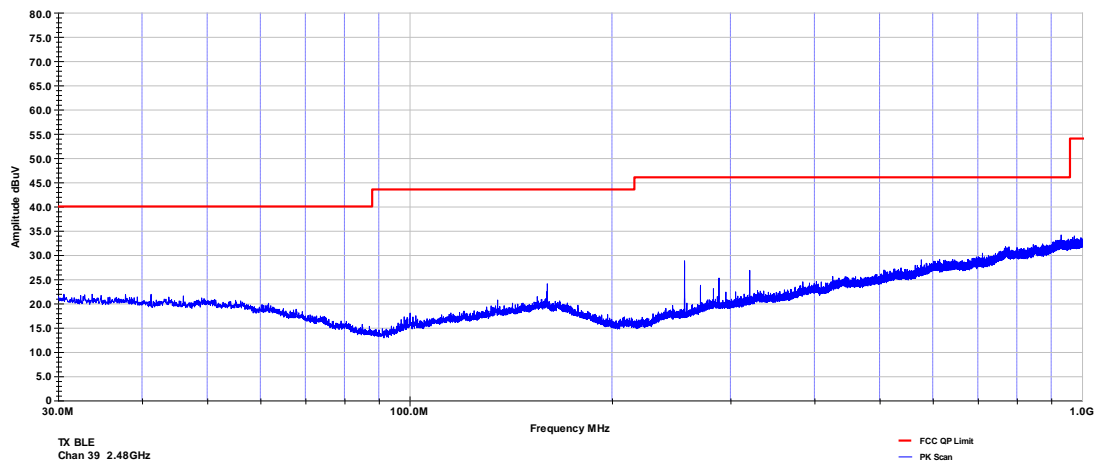
Project # - HRE202303408
 Model # - Peltor WS Alert X
 Serial # - USA 1 (Prototype)
 EUT Power - 3 VDC Battery



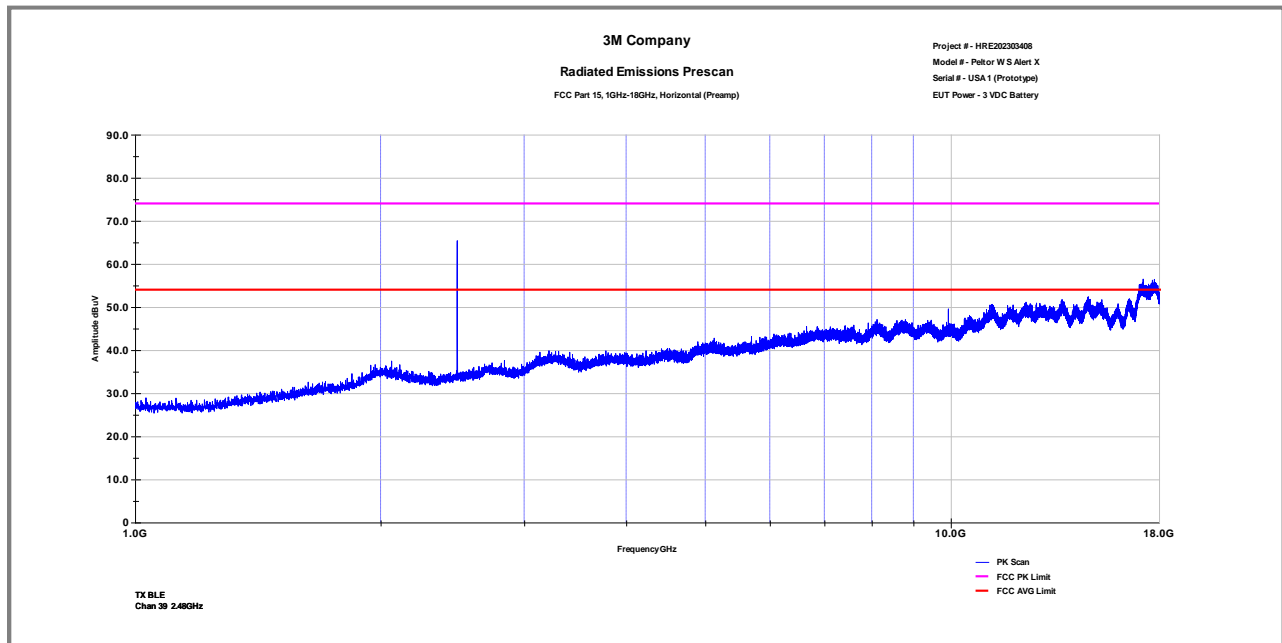
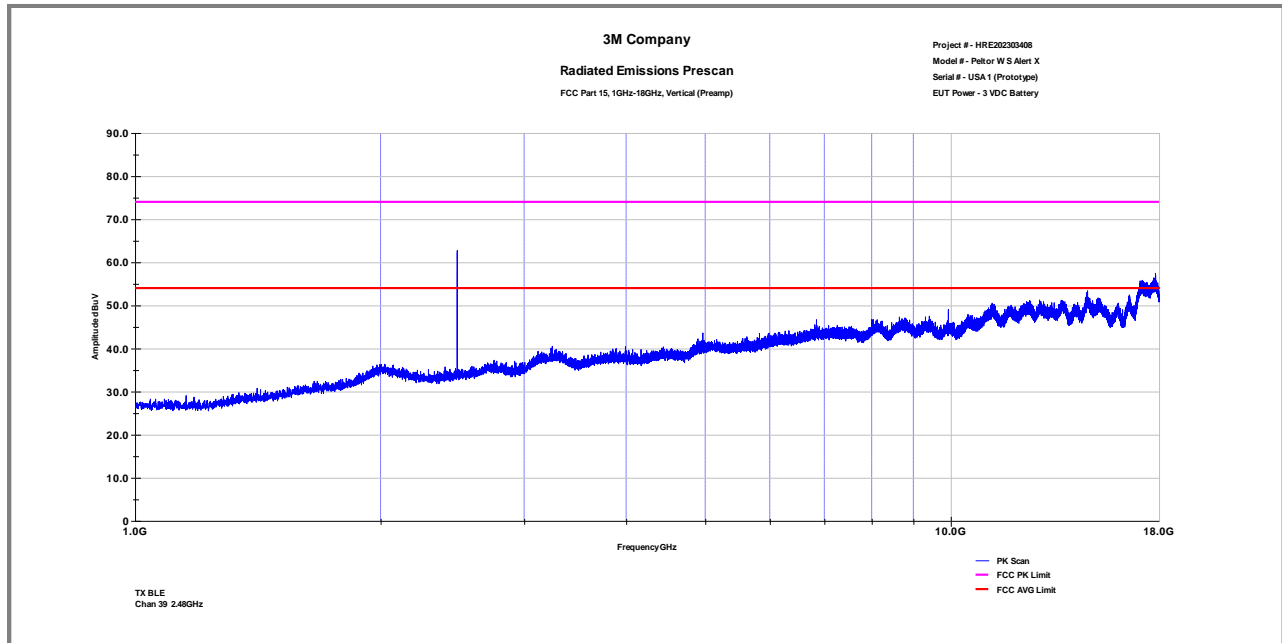
3M Company

Radiated Emissions
 FCC Part 15, Class B, Horizontal

Project # - HRE202303408
 Model # - Peltor WS Alert X
 Serial # - USA 1 (Prototype)
 EUT Power - 3 VDC Battery



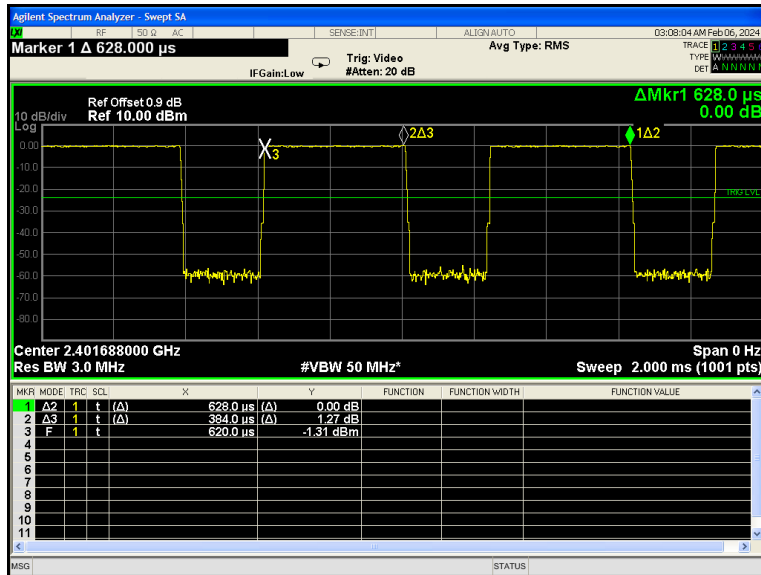
FCC Part 15.209 Radiated Emissions in restricted band – High Channel



FCC Part 15.209 Radiated Emissions in restricted band – High Channel

Tables - Radiated Emissions in restricted band

[illegible][illegible][illegible]

Duty Cycle Correction factor

The total number of pulses over 100ms/0.628ms= 159

Transmission On time per burst = 0.384ms

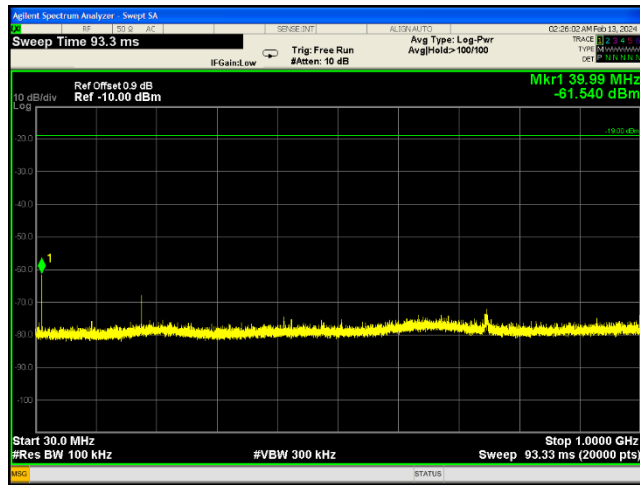
Total on time over 100 ms = 0.385ms x 159 = 61.1ms

Duty Cycle Correction Factor = $20 \log (61.1\text{ms}/100\text{ms}) = -4.3\text{dB}$

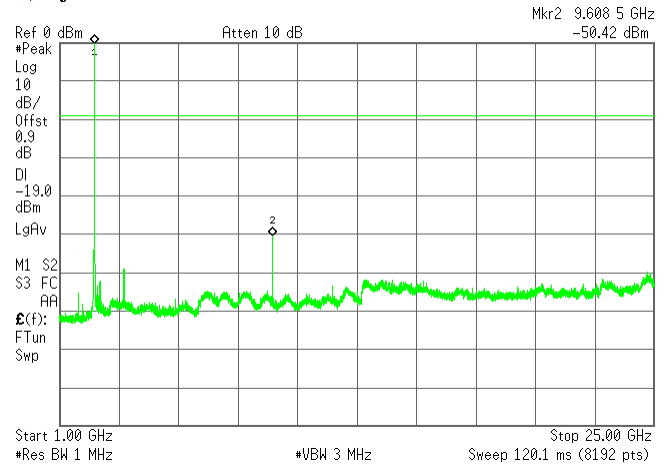
VBW = 3KHz > 1/T

4.5	Radiated Emissions in non-restricted band		
Method:	The measurements were made with transmitter set to transmit continuously low, medium and high channels.		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	48%	
	Atmospheric Pressure:	1011 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.11 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	Measurement Point <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2402.0-2480.0 MHz		
In-band power in 100KHz:	<input checked="" type="checkbox"/> 1.00dBm	Results:	
Limit:	<input checked="" type="checkbox"/> -29.0dBm (30dBc below in-band power)	>43dBc	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>	Date: 02/13/2024	

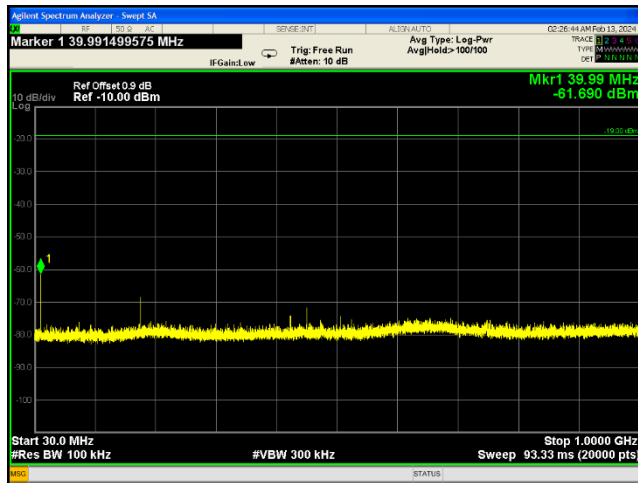
Note:	
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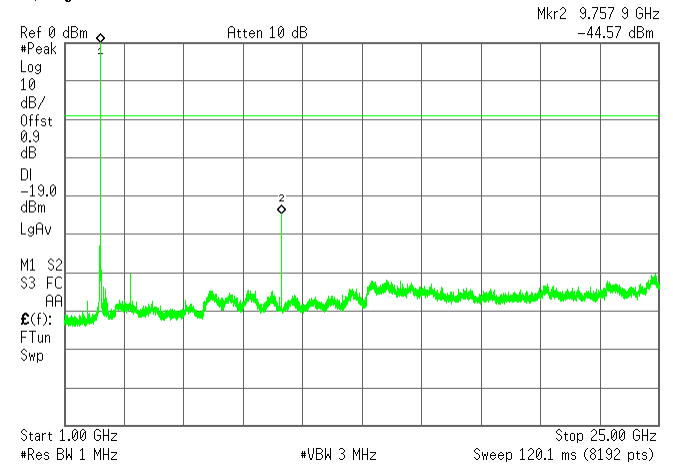
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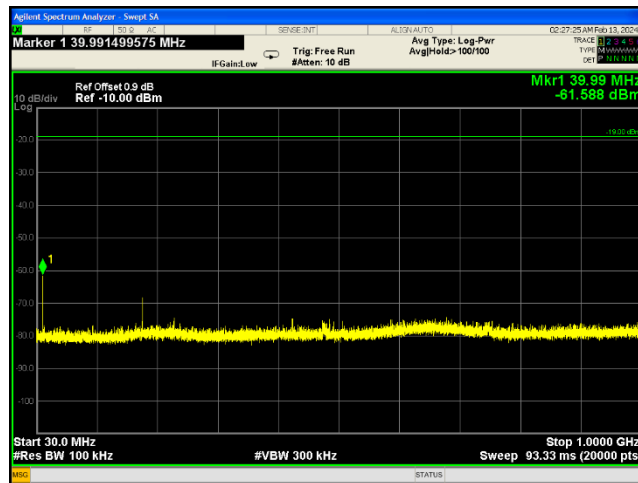
Conducted Spurious - Low Channel



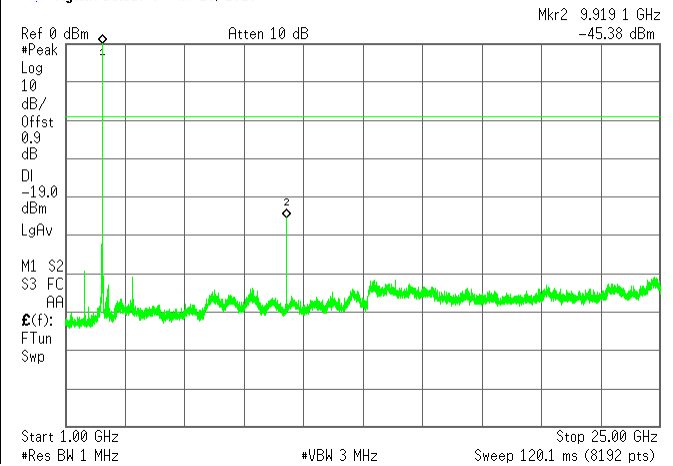
* Agilent 15:10:23 Mar 20, 2028



Conducted Spurious - Mid Channel



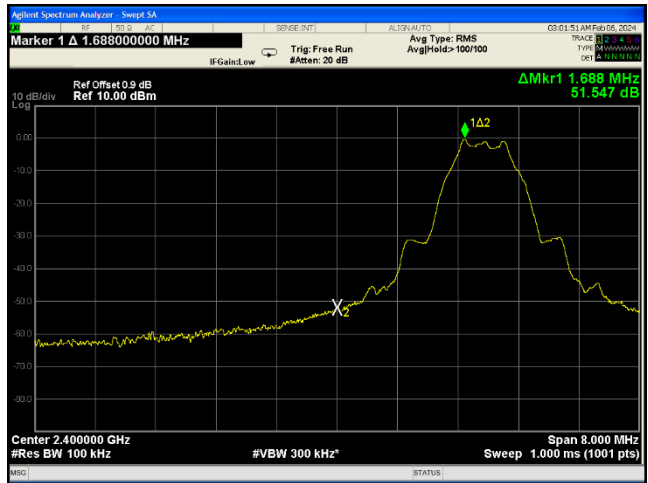
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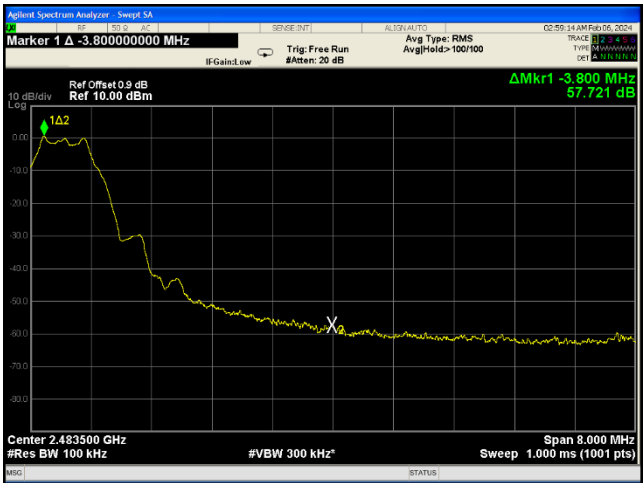
Conducted Spurious - High Channel

4.6	Band-Edge Compliance		
Method:	The measurements were made with transmitter set to transmit continuously with modulated signal at low and high channels.		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	48%	
	Atmospheric Pressure:	1011 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2020, Section 11.13.2 <input checked="" type="checkbox"/> FCC Part 15.247/RSS 247 <input checked="" type="checkbox"/> KDB 558074	Measurement Point <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 2402.0-2480.0 MHz	Results	
Limit:	<input checked="" type="checkbox"/> >30dBc	Low Ch., 2402 MHz > 51dBc High Ch., 2480 MHz > 57dBc	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 3.0VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>		Date: 02/06/2024

Note:	
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Band Edge - Low Channel
Center Freq. 2.400GHz



Band Edge - High Channel
Center Freq. 2.4835GHz

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4.7	Conducted Emissions Data			
Method:	The AMN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.			
	All power was connected to the system through Artificial Mains Network (AMN). All tested telecommunications lines were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the ISN. Where an AAN was not appropriate or available measurements were made using a Capacitive Voltage Probe.			
Test Verification: <input checked="" type="checkbox"/>		Laboratory Ambient Temperature:		23°C
		Relative Humidity:		48%
		Atmospheric Pressure:		1011 mbars
Reference Standard(s):		<input checked="" type="checkbox"/> RSS Gen/FCC 15.207 <input type="checkbox"/> ANSI C63.4:2014 <input checked="" type="checkbox"/> ANSI C63.10:2020		Measurement Point <input checked="" type="checkbox"/> Mains <input type="checkbox"/> Telecommunication ports <input type="checkbox"/>
Nominal Voltage:		<input checked="" type="checkbox"/> 120VAC <input type="checkbox"/> 230VAC <input type="checkbox"/> 3.0VDC		
Test Personnel:		Keith Schwartz <i>KS</i>		Date: 02/08/2024
Limits – Part 15.207/RSS Gen – AC Mains				
Frequency (MHz)	Limit dB (µV)			
	Quasi-Peak	Average	Result	Comments
0.15 to 0.50	66 to 56	56 to 46	pass	Time Domain Scan
0.50 to 5	56	46	pass	Time Domain Scan
5 to 30	60	50	pass	Time Domain Scan

Modifications:	
Note:	Tested while charging over USB-C port using USB Charger

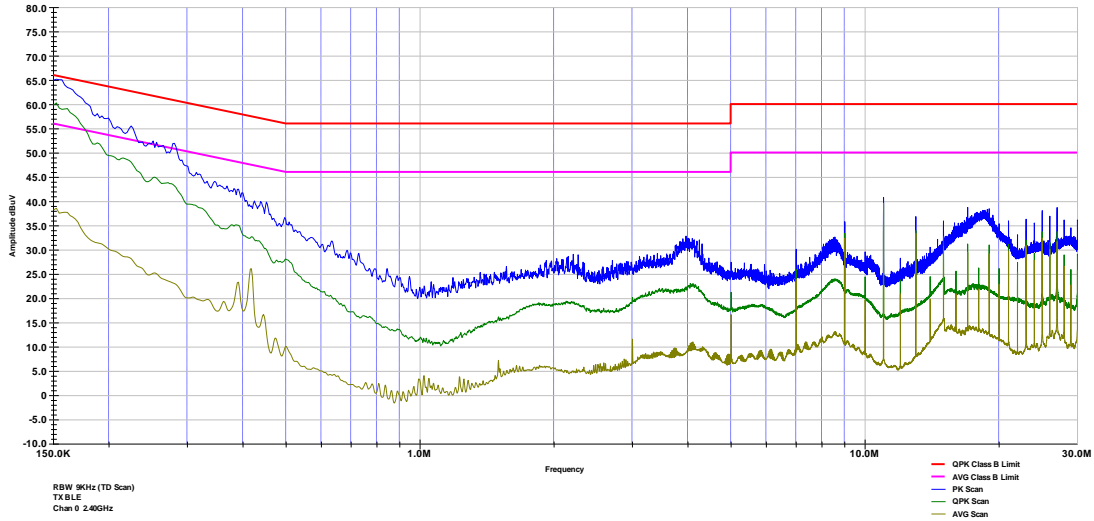


3M Company

Conducted Emissions

CISPR 32, FCC Part 15, Class B, Line 2

Project # - HRE202303408
 Model # - Pelitor W S Alert X
 Serial # - USA 1 (Prototype)
 EUT Power - 120VAC/60Hz

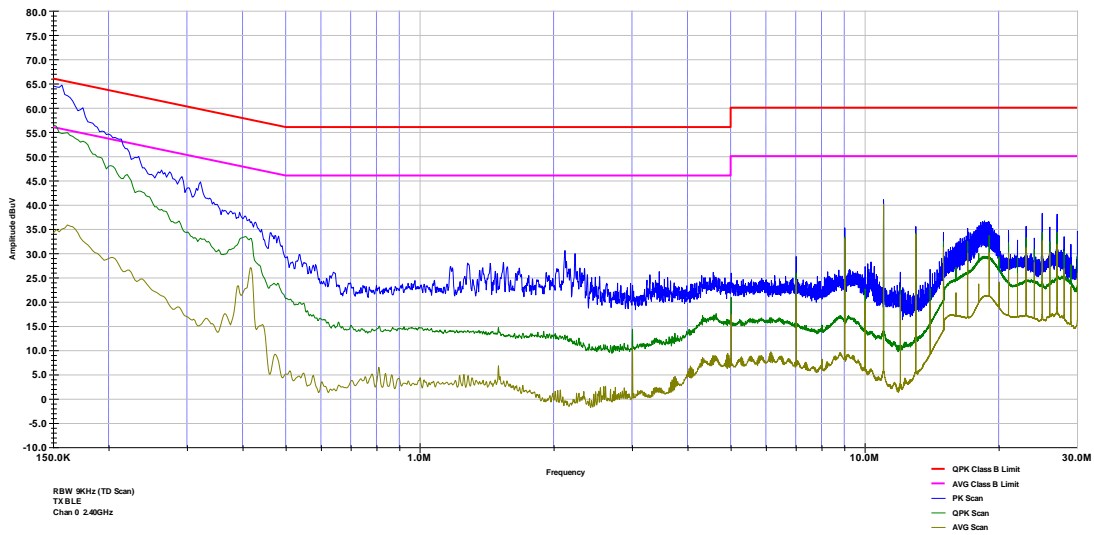


3M Company

Conducted Emissions

CISPR 32, FCC Part 15, Class B, Line 1

Project # - HRE202303408
 Model # - Pelitor W S Alert X
 Serial # - USA 1 (Prototype)
 EUT Power - 120VAC/60Hz





4.8	RF Exposure Evaluation		
Reference Standard(s):	<input checked="" type="checkbox"/> KDB 447498 RF Exposure Guidance v06 <input type="checkbox"/> KDB 447498 Interim RF Exposure Guidance v01 <input checked="" type="checkbox"/> RSS 102, Issue 5 <input type="checkbox"/>	<input type="checkbox"/> MPE <input type="checkbox"/> SAR Evaluation <input checked="" type="checkbox"/> SAR Test Exclusion	
Frequency Range(s):	<input type="checkbox"/> 911-918.5MHz <input checked="" type="checkbox"/> 2402-2480.0MHz <input type="checkbox"/>		
Antenna Separation Distance:	>40mm		
RF Exposure Conditions:	Portable (Body-worn)		
2.4GHz Antenna Gain:	2.7dBi		
BT EDR the source-based conducted output power:	3.0mW(4.8dBm)*0.7(FHSS worst case duty cycle)= 2.1mW(3.2dBm)		
BT EDR EIRP/ERP output power:	EIRP=3.2dBm + 2.7dBi=5.9dBm, ERP=5.9dBm - 2.15dB=3.75dBm(2.4mW)		
BLE the source-based conducted output power:	1.3mW(1dBm)*0.85(worst case duty cycle)=1.1mW(0.4dBm)		
BLE EIRP/ERP output power:	EIRP=0.4dBm + 2.7dBi=3.1dBm, ERP=3.1dBm - 2.15dB= 0.95dBm(1.2mW)		
The SAR Exclusion Threshold Level			
FCC Part 2.1093	77mW<40mm @2.45GHz		
RSS 102, Issue 5	173mW>40mm @2.45GHz		
Note:			

5.0	Test Equipment				
Test Equipment Used					
Description	Manufacturer	Model	Identifier	Last Cal. Date	Check
Biconilog Antenna	Schwarzbeck	VULB 9168	9168-1070	10/20/2023	<input checked="" type="checkbox"/>
Horn Antenna	A.H. Systems	SAS 571	1010	10/20/2023	<input checked="" type="checkbox"/>
Loop Antenna	A.H. Systems	EHA-51B	1213E	10/20/2023	<input type="checkbox"/>
EMI Receiver	Rohde & Schwarz	ESW26	101412	10/20/2023	<input checked="" type="checkbox"/>
Signal Analyzer	Agilent	N9000A	MY53031040	10/20/2023	<input checked="" type="checkbox"/>
EMI Receiver	Agilent	E4448A	1530975	10/20/2023	<input checked="" type="checkbox"/>
LISN	TESEQ	NNB51	1130	10/20/2023	<input checked="" type="checkbox"/>
Coaxial Cable	Insulated Wire	2803	CBL2039	10/20/2023	<input checked="" type="checkbox"/>
EMC Software	ETS-Lindgren	TILE 7		N/A	<input checked="" type="checkbox"/>
Equipment Calibration Interval:		<input checked="" type="checkbox"/> 12 months <input type="checkbox"/> 24 months			

6.0	Report revision history		
Revision Level	Date	Report Number	Notes
0	09/12/2024	HRE202303408-4	Original Issue