

EMC TEST REPORT



NVLAP Lab Code 200033-0

Standard(s):

47 CFR FCC Part 15.225,
FCC Parts 15.247(d)/15.209,
RSS 210, Issue 9, 2016,
ICES 003, Issue 6, 2016

FCC ID: DGFPDTR602CX
IC: 458A-PSDTR602CX

Product: 3M™ Versaflo™ Powered Air Respirator
Model(s): TR600CX

Company Name:
3M Company

Address:
3M Center, Building 235
St. Paul, MN 55144-1000

Report Number: RE1705035-4
Report Issue Date: June 7, 2019

Report Prepared by:

Signature: 
Yuriy Litvinov
Lead EMC Engineer

Tested by:
3M EMC Laboratory
410 E. Fillmore Avenue, Building 76-01-1
St. Paul, Minnesota 55107-1000, USA

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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.

	Test Description	Requirement – Test	Result	Comments
4.1	Part 15.207/ RSS-Gen	Conducted Emissions	N/A	
4.2	Part 15.225(d)/ RSS-210 A2.6(d)	Radiated Emissions outside of the specified band	pass	
4.3	Part 2.1049/RSS-Gen	Occupied Bandwidth	pass	
4.4	Part 15.225(a)(b)(c)/ RSS210 A2.6	In Band Radiated Spurious Emissions	pass	
4.5	15.225(e)/RSS210	Frequency Stability	pass	
4.6	15.209/15.247/RSS- Gen, 8.9	DTS - Radiated Emissions in restricted band	pass	BLE Verification. See note below.
4.7	2/1093/RSS102	RF Exposure Evaluation	pass	

Note:	<p>Device is battery operated. Device contains Laird Technologies 2.4 GHz Bluetooth Low Energy Module, FCC ID: TFB-1005 and IC:5969A-1005.</p> <p>FCC Test Report number FR742502 issued by International Certification Corp. on April 25, 2017 for the Laird, Model: SaBLE-x-R2 which is filed in this authorization remains applicable and valid of performance within this device: Radiated Spurious Emissions, Output Power, 6dB Bandwidth, Band-edge Compliance and Power Spectral Density</p>
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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



2.0 Equipment Description

2.1	Equipment Under Test			
Description:	Powered Air Purifying Respirator for use in rugged environments such as industrial, demolition, grinding, metal finishing and casting operations.			
Model(s):	TR600CX			
Serial number:	3M TPB-999			
Contact:	Keith Lyksett			
Phone:	+16517362009			
3M Division:	Personal Safety			
Modifications and Special Measures:	N/A			
Frequency Range:	13.56MHz NFC	2402-2480MHz BLE		
Channel No.:	1			
Modulation Type:	ASK			
Maximum Output Power:	N/A			
Antenna Type:	Internal PCB Loop Antenna			
EUT Highest Internal Frequency (F_x):	<10MHz			
Test Deviations or Exclusions	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Rated Power:	Voltage:	<input type="checkbox"/> 120VAC	<input type="checkbox"/> 230VAC	<input checked="" type="checkbox"/> 11.1VDC
	Phase:	<input type="checkbox"/> 1ph	<input type="checkbox"/> 3ph	<input checked="" type="checkbox"/> Battery
	Frequency:	<input type="checkbox"/> 50Hz	<input type="checkbox"/> 60Hz	
	Current:			
Test Dates:	02/18-02/22/2019			
Received Date:	02/13/2019			
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	Blower Assembly	3M	TR-600CX	
2	Li-Ion battery	3M	TR-632	Support Equipment
3	Battery Charger	3M	TR-640	Support Equipment

3.2 Input/Output Ports of EUT

No.	Description	Type	Comments
1			
2			

3.3 Cables

No.	Description	Type	Length	Shielding	Comments
1					
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 type="checkbox"/>	Other	

3.5 Primary function(s) of EUT

No.	List of Essential Functions
1	Near-field communication (NFC) for RFID tag reading from the filter
2	Transferring of various environmental and functional data via Bluetooth radio using 3M Active Safety Messaging Protocol.

3.6 Exercising of EUT and Interfaces

No.	Mode of Operation
1	Continues transmission of modulated signal at 13.56MHz
2	BLE transmitting at low channels of operation with CW carrier



4.0 Test Conditions and Results

4.1 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 type="checkbox"/>	Laboratory Ambient Temperature:			
	Relative Humidity:			
	Atmospheric Pressure:			
Reference Standard(s):	<input type="checkbox"/> FCC 15.207/RSS Gen		Measurement Point <input type="checkbox"/> Mains <input type="checkbox"/> Telecommunication ports <input type="checkbox"/>	
	<input type="checkbox"/> ANSI C63.4:2014			
	<input type="checkbox"/> ANSI C63.10:2013			
Nominal Voltage:	<input type="checkbox"/> 120VAC <input type="checkbox"/> 230VAC <input type="checkbox"/>			
Test Personnel:			Date:	
Limits - Class A – AC Mains				
Frequency (MHz)	Limit dB (µV)			
	Quasi-Peak	Average	Result	Comments
0.15 to 0.50	79	66	N/A	AMN
0.50 to 30	73	60	N/A	AMN
Limits - Class B – AC Mains				
0.15 to 0.50	66 to 56	56 to 46	N/A	AMN
0.50 to 5	56	46	N/A	AMN
5 to 30	60	50	N/A	AMN

Modifications:	
Note:	



4.2 Radiated Emissions Data	
Method:	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16 above 30MHz or either outside or in the chamber below 30MHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (quasi-peak) 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. Magnetic field measurements were made in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna, positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop was 1 m above the ground.
Test Verification: <input checked="" type="checkbox"/>	Laboratory Ambient Temperature: 21°C
	Relative Humidity: 18%
	Atmospheric Pressure: 836.8 mbars
Reference Standard(s):	<input type="checkbox"/> ANSI C63.4:2014 <input checked="" type="checkbox"/> ANSI C63.10:2013 <input checked="" type="checkbox"/> FCC Part 15.209/RSS Gen
	Measurement Distance <input checked="" type="checkbox"/> 3 Meters <input type="checkbox"/>
Frequency Range:	<input checked="" type="checkbox"/> 9KHz to 30MHz <input checked="" type="checkbox"/> 30MHz to 1000KHz
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 11.1VDC
Test Personnel:	Keith Schwartz <i>KS</i> Date: 02/18/2019
Limits – 15.209 and RSS Gen	
0.009-0.490	2400/F(KHz) 300 300 pass
0.490-1.705	24000/F(KHz) 30 30 pass
1.705-30	30 30 pass
30 to 88	40 3 pass
88 to 216	43.5 3 pass
216 to 960	46 3 pass
Above 960	54 3 N/A

Modifications:	
Note:	<p>For emission in the restricted bands, the limit of 15.209 was used.</p> <p>The level of unwanted emissions from an intentional radiator above 30MHz has not exceed 15.209 limit. All radiated emissions above 30MHz listed in the table is associated with unintentional radiation form the device.</p> <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>

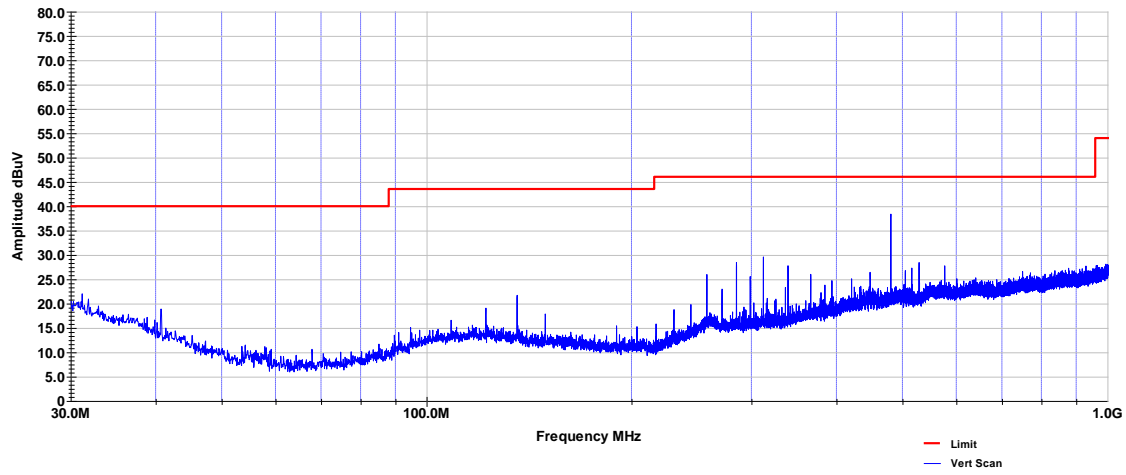


Frequency (MHz)	Pol.	QP Reading dB μ V/m	Total CF dB	Net at 3 m dB μ V/m	Limit (dB μ V/m)	Margin dB
10.38*		-13.6	40.50	26.9	70	-43.1
27.62*		8.5	32.70	24.2	70	-45.8
135.54	H	9.7	16.3	26	43.5	-17.6
284.74	V	9.9	18.2	28.2	46	-17.8
311.88	V	10.8	18.9	29.7	46	-16.3
338.5	V	12.2	19.3	31.5	46	-14.5
480.33	H	6.5	23.2	29.7	46	-16.3
528.18	H	5.9	23.4	29.3	46	-16.7
Notes:	Net Reading (dBuV) = Reading (dBμV)+Total CF(dB) Measurements <30MHz includes Loop Antenna correction factor *Field strength of emissions measurements outside 13.110-14.010MHz band of operation. It is found to be attenuated below Part 15.209 limits (70dBuV/m at 3meters).					



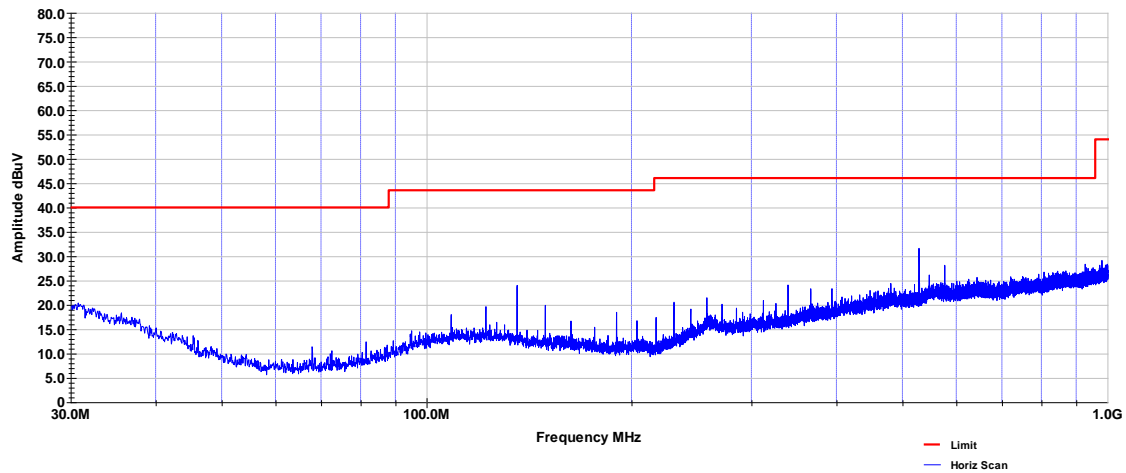
3M Company
Radiated Emissions Prescan
FCC Part 15_209, Vertical

Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery



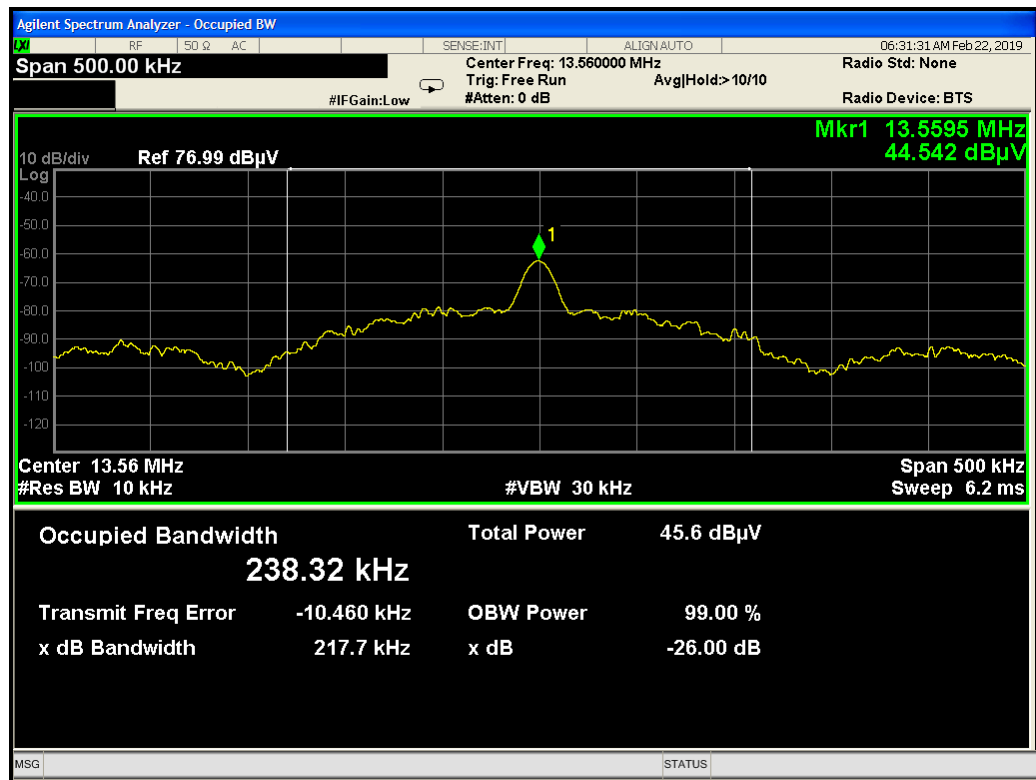
3M Company
Radiated Emissions Prescan
FCC Part 15_209, Horizontal

Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery



4.3	Occupied bandwidth		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	18%	
	Atmospheric Pressure:	836.8 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2013 <input checked="" type="checkbox"/> RSS-Gen	Measurement Point	
		<input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Radiated	
Frequency Range:	<input checked="" type="checkbox"/> 13.553 MHz -13.567 MHz	RBW = 10KHz VBW ≥ 3 x RBW	
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 11.1VDC		
Test Personnel:	Yuriy Litvinov <i>Yuriy Litvinov</i>	Date: 02/22/2019	

Frequency (MHz) (PR-ASK)	26 dB Bandwidth (KHz)	99% Bandwidth (KHz)	Results
13.553 -13.567	217.7	238.3	pass

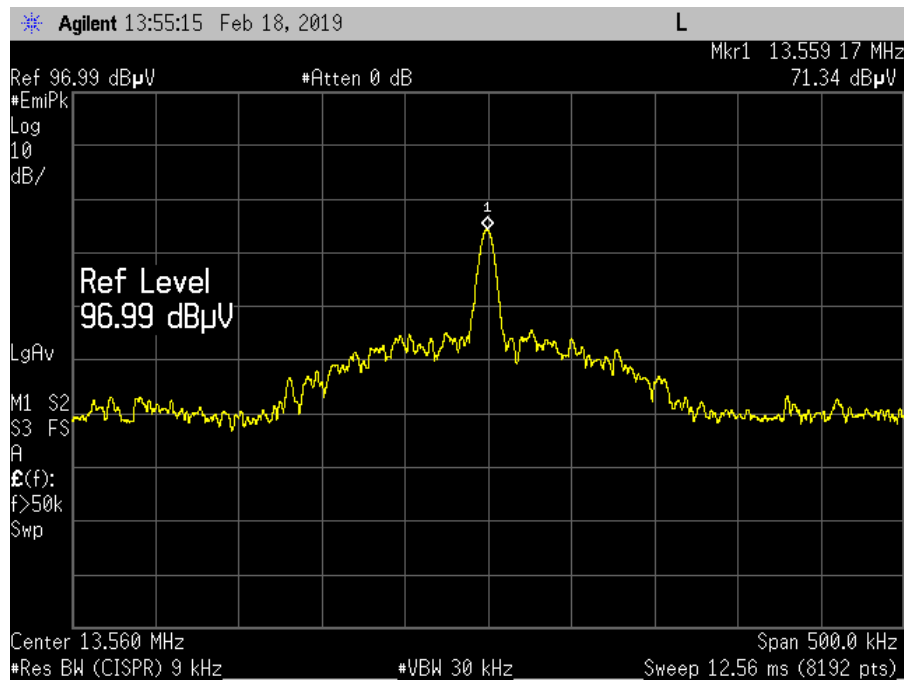




4.4	In-Band Radiated Spurious Emissions		
Method:	Measurements was performed with modulated carrier at the highest power level at which the transmitter is intended to operate. The analyzer offset was adjusted to compensate for the attenuator and other losses.		
	Laboratory Ambient Temperature:	23°C	
	Relative Humidity:	18%	
	Atmospheric Pressure:	836.8 mbars	
Reference Standard(s):	<input checked="" type="checkbox"/> ANSI C63.10:2013 <input checked="" type="checkbox"/> FCC Part 15.255/RSS210 <input type="checkbox"/> FCC Part 15.109/ICES 003 <input type="checkbox"/> FCC Part 15.209	Measurement Point <input type="checkbox"/> Conducted <input checked="" type="checkbox"/> Radiated at 3 meters	
Frequency Range:	<input checked="" type="checkbox"/> 13.553 MHz -13.567 MHz		
	Frequency (MHz)	Field Strength uV/m at 30m	Field Strength dBuV/m at 3m
Limit	1.705-13.110	30	69.5
	13.110-13.410	106	80.5
	13.410-13.553	334	90.5
	13.553-13.567	15848	124.0
	13.567-13.710	334	90.5
	13.710-14.010	106	80.5
	14.010-30.0	30	69.5
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 11.1VDC		
Test Personnel:	Keith Schwartz <i>KS</i>		Date: 02/18/2019



Frequency (MHz)	Pol (XYZ)	Net QP Reading dB μ V/m	Limit (3m) (dB μ V/m)	Margin dB	Antenna Height (m)
13.56	Y	71.3	124	-52.7	1.0
13.57	Y	60.3	90.5	-30.2	1.0
13.64	Y	50.5	80.5	-30	1.0
13.72	Y	39.2	80.5	-41.3	1.0
14.02	Y	38.3	69.5	-31.2	1.0
13.53	Y	54	80.5	-26.5	1.0
13.49	Y	49.4	80.5	-31.1	1.0
13.1	Y	37.5	69.5	-32	1.0
Notes:	Measurements <30MHz includes Loop Antenna correction factor				





4.5	Frequency Stability	
Method:	Measurements was performed with modulated carrier at the highest power level at which the transmitter is intended to operate. The frequency was measured under normal and extreme test conditions test conditions. The analyzer offset was adjusted to compensate for the attenuator and other losses. During extreme test conditions, both extreme temperature and voltage apply simultaneously.	
	Laboratory Ambient Temperature:	23°C
	Relative Humidity:	18%
	Atmospheric Pressure:	836.8 mbars
Reference Standard(s):	<input checked="" type="checkbox"/> Part 15.225/RSS-210 <input checked="" type="checkbox"/> ANSI C63.10:2013	Measurement Point <input type="checkbox"/> Conducted <input checked="" type="checkbox"/> Radiated
Frequency Range:	<input checked="" type="checkbox"/> 13.553 MHz -13.567MHz	Maximum Deviation
Limit:	<input checked="" type="checkbox"/> ± 100ppm (± 0.01%)	60 ppm
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 11.1VDC	
Extreme Temperature Ranges:	<input checked="" type="checkbox"/> General	<input checked="" type="checkbox"/> - 20.0 to +55.0C ⁰
	<input type="checkbox"/> Portable	<input type="checkbox"/>
	<input type="checkbox"/> Indoor Use	<input type="checkbox"/>
Extreme Test Voltages:	<input type="checkbox"/> Mains Voltage	<input type="checkbox"/> ± 15%
	<input checked="" type="checkbox"/> Battery	<input type="checkbox"/> 0.85 <input type="checkbox"/> 1.15
		Test performed with a fully charged battery
Test Personnel:	Keith Schwartz <i>KS</i>	Date: 02/22/2019

Channel Frequency (MHz)	Temperature C ⁰	Voltage (VDC)	Measured Frequency (MHz)	Frequency Deviation (ppm)	Result
13.56MHz	55	Battery	13.55918	60	pass
	40	Battery	13.5593	0	pass
	30	Battery	13.5593	0	pass
	20	Battery	13.5593	0	pass
	10	Battery	13.5593	0	pass
	0	Battery	13.5593	0	pass
	-10	Battery	13.5593	0	pass
	-20	Battery	13.55923	56	pass



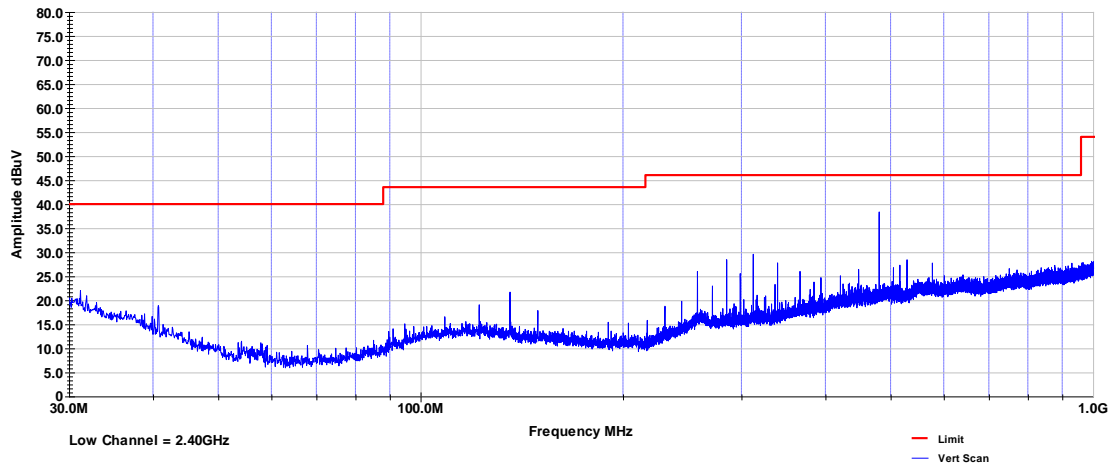
4.4	Radiated Emissions in restricted band				
Method:	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. EUT was rotated through three orthogonal axes to determine which attitude (orientation) and arrangement produces the highest emission relative to the limit; 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:		18%		
	Atmospheric Pressure:		836.8 mbars		
Reference Standard(s):	<input type="checkbox"/> ANSI C63.4:2014:2014		Measurement Distance		
	<input checked="" type="checkbox"/> ANSI C63.10:2013:2013				
	<input checked="" type="checkbox"/> KDB 996369 D04		<input checked="" type="checkbox"/> 3 Meters <input type="checkbox"/>		
	<input type="checkbox"/>				
Frequency Range:	<input checked="" type="checkbox"/> 30 MHz to 1 GHz				
	<input checked="" type="checkbox"/> 1 GHz to 26 GHz				
Nominal Voltage:	<input type="checkbox"/> 120VAC <input checked="" type="checkbox"/> 11.1VDC				
Test Personnel:	Keith Schwartz <i>KS</i>		Date: 02/18/2019		
Limits – 15.209 and RSS-Gen					
0.009-0.490		2400/F(KHz)	300	300	N/A
0.490-1.705	24000/F(KHz)		30	30	N/A
1.705-30	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		3	pass

Modifications:	
Note:	<p>For emission in the restricted bands, the limit of 15.209 was used.</p> <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>Low BLE channel was tested as a worst case for RF Module verifications</p> <p>No radiated spurious emissions were detected above 18GHz.</p>



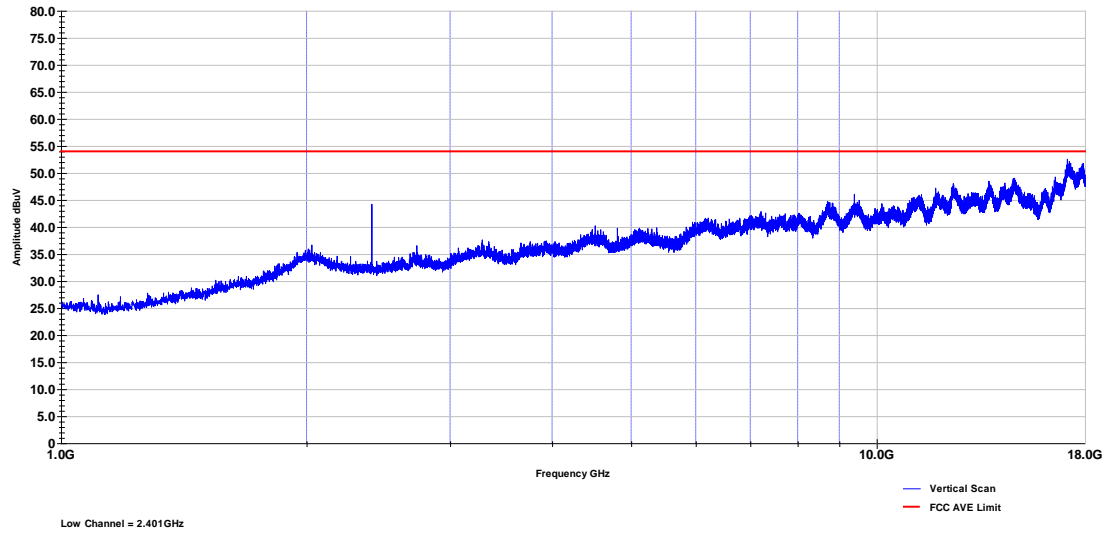
3M Company
Radiated Emissions Prescan
FCC Part 15, Class B, Vertical

Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery



3M Company
Radiated Emissions Prescan
FCC Part 15 1GHz-18GHz, Vertical

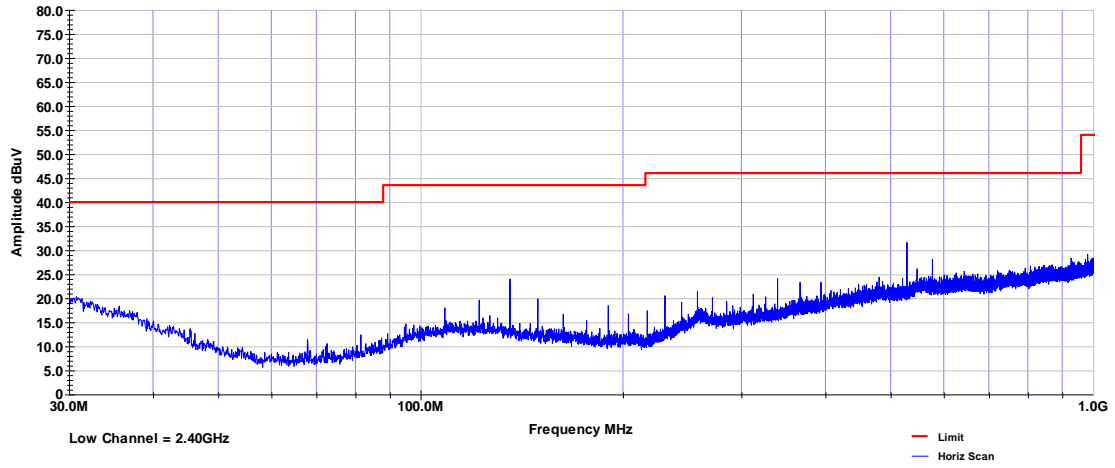
Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery





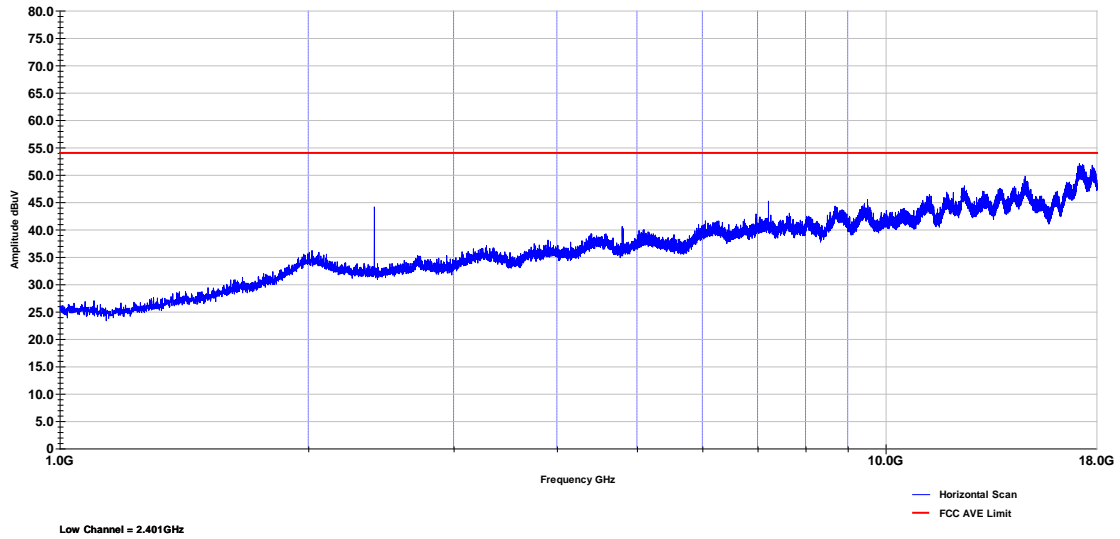
3M Company
Radiated Emissions Prescan
FCC Part 15, Class B, Horizontal

Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery



3M Company
Radiated Emissions Prescan
FCC Part 15 15GHz-18GHz, Horizontal

Project # - RE1705035
Model # - TR-600CX (Rev. A)
Serial # - 3M TPB-999
EUT Power - 11.1 VDC Lithium Ion Battery





PoI	Frequency (GHz)	Peak dB μ V/m	AVG dB μ V/m	Total CF dB	Net Peak dB μ V/m	Net AVE dB μ V/m	PK Limit dB μ V/m.	AVE Limit dB μ V/m	PK Margin dB μ V/m	AVG Margin dB
V	4804.00	47.80	40.9	-6.29	41.51	34.61	74.00	54.00	-32.49	-19.39
H	4804.00	46.60	39.6	-6.29	40.31	33.31	74.00	54.00	-33.69	-20.69
V	7206.00	46.80	35.2	-3.01	43.79	32.22	74.00	54.00	-30.21	-21.78
H	7206.00	46.31	35.4	-3.01	43.30	32.39	74.00	54.00	-30.70	-21.61
Notes:	Net Reading (dB μ V) = Reading (dB μ V) + (Antenna with amp CF(dB)+Cable CF(dB))									
	Low Channel									



4.7 RF Exposure Evaluation	
Reference Standard(s):	<input checked="" type="checkbox"/> KDB 447498 <input checked="" type="checkbox"/> RSS 102, Issue 5 <input checked="" type="checkbox"/> <input type="checkbox"/> MPE <input type="checkbox"/> SAR Evaluation <input checked="" type="checkbox"/> SAR Test Exclusion
Frequency Range:	<input checked="" type="checkbox"/> 2402-2480.0MHz <input checked="" type="checkbox"/> 13.56MHz
Antenna Separation Distance: >10mm	
Antenna Gain (maximum): 0dBi (PCB trace)	
BLE Maximum Output Power at antenna terminal: 4mW(6dBm)	
RFID Maximum Power: M24LR RF Operating Current 0.0002A (50 Ohm load) The power calculation is $P = 0.0002A^2 \times 50 \text{ Ohm} = 0.2mW$	
RF Exposure Conditions: Belt-worn	
Power Density: N/A	
SAR Test Exclusion Threshold	
FCC Part 2.1093	19mW @ >10mm @2.45GHz
RSS 102, Issue 5, 2015	7mW @ >10mm @2.45GHz
FCC Part 2.1093	308mW @ < 50mm @10-50MHz
RSS 102, Issue 5, 2015	71mW @ <5mm @<300MHz
Note:	



5.0

Test Equipment

Test Equipment Used

Description	Manufacturer	Model	Identifier	Last Cal. Date	Check
Biconilog Antenna	Schaffner	CBL6112B	27491	10/20/2018	<input checked="" type="checkbox"/>
Horn Antenna	A.H. Systems	SAS 571	1010	10/20/2018	<input checked="" type="checkbox"/>
Loop Antenna	A.H. Systems	EHA-51B	1213E	10/20/2018	<input type="checkbox"/>
Loop Antenna	EMCO	ALR25M	1011	10/20/2018	<input checked="" type="checkbox"/>
Signal Analyzer	Agilent	N9000A	MY53031040	10/20/2018	<input checked="" type="checkbox"/>
EMI Receiver	Agilent	E4448A	1530975	10/20/2018	<input checked="" type="checkbox"/>
LISN	TESEQ	NNB51	1130	10/20/2018	<input 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	06/07/2019	RE1705035-4	Original Issue

Statement of Conformity

3M EMC Laboratory

Hardgoods Regulatory Engineering
Building 76-01-01
St. Paul, MN 55144-1000, USA

MANUFACTURER'S NAME:	3M Company
NAME OF EQUIPMENT:	Versaflo™ Powered Air Respirator
MODEL NUMBER(S):	TR600CX
TEST REPORT NUMBER:	RE 1705035-4
DATE OF ISSUE:	June 7, 2019

Referring to the performance criteria and operating mode during the tests specified in this report the equipment complies with the essential requirements herein specified:

47 CFR Part 15 – Subpart C – Intentional Radiator	FCC Part 15.225
License-exempt Radio Apparatus (All Frequency Bands): Category I Equipment	RSS 210, issue 9, 2016
	FCC Part 15B ICES-003, Issue 6, 2016

Comments:



Yuriy Litvinov
Lead EMC Engineer