

## UN 38.3 Lithium Battery Test Summary

### Cell, Battery or Product Model Number

Item Number:	TR-830
Item Name:	3M™ Versaflo™ Battery TR-830

### Cell, battery or product manufacturer's contact information

Name:	3M Personal Safety Division				
Address:	3M Center, 235-02-E-91				
City:	St. Paul	State:	MN	ZIP:	55144-1000
				Country:	United States
Telephone:	+1 800-243-4630	Email:	psdtechnicalsupport@mmm.com	Website:	https://www.3m.com/

### Test Laboratory

Name:	UL LLC				
Address:	333 Pfingsten Road				
City:	Northbrook	State:	IL	ZIP:	60062-2096
				Country:	United States
Telephone:	847.272.8800	Email:	cec@ul.com	Website:	UL.com

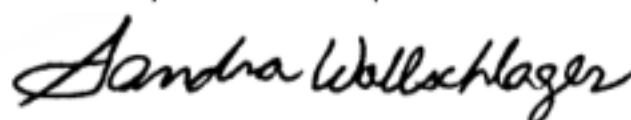
### Cell or Battery Description

Cell or Battery: Battery (10.96 Vdc, 4.0Ah)		Physical Description (dimensions, appearance):			
Cell or Battery Type: Lithium Ion		Hard-case pack with three cells in series with protective circuitry. (3S1P)			
Watt-hour rating or Lithium Content: 44Wh		Size: 227mm x 55mm x 67mm			
Completed Cell or Battery Weight: 675g					
Unique Test Report ID Number: 20160630-4787109638		Date of test report: 30-Jun-16			
Yes	No	List of Tests Completed:	Pass	Fail	Additional Comments (or indicate compliance with other standards, eg., Underwriters Laboratory):
X		Test T.1: Altitude simulation	X		Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3 (f) and 38.3.3 (g)).
X		Test T.2: Thermal test	X		
X		Test T.3: Vibration	X		
X		Test T.4: Shock	X		
X		Test T.5: External short circuit	X		
	X	Test T.6: Impact/Crush			Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:
X		Test T.7: Overcharge	X		UN Manual of Tests & Criteria, Transport of Dangerous Goods, Sixth Edition
	X	Test T.8: Forced discharge			

Signature with name and title of signatory as an indication of the validity of information provided:

Date:

Signatory: Sandra Wollschlager  
PSD Sustainability and Product Stewardship Manager



27-Dec-19