

# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB2E

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Public Enterprise Testing Center 29 Valulenchuck Str., Sevastopol, 299053, Russia  
<<Omega>>  
**Phone Number:** +380 692 5370723  
**Email address:** stcomega@stc-omega.b  
**Website Address:** www.stc-omega.biz  
**Test Report No.:** 10-894 **Report Title** on conformity the battery module model LB2E  
**Test Report Date:** 27/12/2010 for requirement of the Manual of Tests and Criteria

### Battery Information

**Part Number:** 701S-00618  
**Battery Makeup:** Battery module containing three isolated batteries, each of three  
123 cells connected in series  
**Gross Weight (kg):** 0.386 **Net Weight (kg):** 0.15  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.65 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

A handwritten signature in black ink that reads "D C Sheekey".

# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB3S

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Public Enterprise Testing Center <<Omega>> 29 Valulenchuck Str., Sevastopol, 299053, Russia  
**Phone Number:** +380 692 5370723  
**Email address:** stcomega@stc-omega.b  
**Website Address:** www.stc-omega.biz  
**Test Report No.:** 11-002 **Report Title** on conformity the Battery Module model LB3S for  
**Test Report Date:** 08/02/2011 requirement of the Manual of Tests and Criteria of the  
United Nations Recommendations on the Transport of

### Battery Information

**Part Number:** 711S-00609  
**Battery Makeup:** Battery module containing two isolated batteries, each of two Energizer L91 cells connected in series  
**Gross Weight (kg):** 0.09 **Net Weight (kg):** 0.09  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.96 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB4V

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 112011-1 **Report Title** UN Transportation Safety Tests on lithium primary and lithium-ion secondary batteries used in Ocean Signal V100 VHF portable radios  
**Test Report Date:** 01/11/2011

### Battery Information

**Part Number:** 721S-00612  
**Battery Makeup:** Battery module containing three isolated batteries, each of two Energizer AA cells connected in series  
**Gross Weight (kg):** 0.15 **Net Weight (kg):** 0.1  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.96 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: RB5V

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 112011-1 **Report Title** UN Transportation Safety Tests on lithium primary and lithium-ion secondary batteries used in Ocean Signal V100 VHF portable radios  
**Test Report Date:** 01/11/2011

### Battery Information

**Part Number:** 721S-00612  
**Battery Makeup:** Battery module containing two cells connected in series with protection circuitry  
**Gross Weight (kg):** 0.12 **Net Weight (kg):** 0.12  
**Battery Type:** Lithium Ion **Lithium Content or Rating:** 13.3 Wh  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5, T7

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**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB7P

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 022013-1 **Report Title** UN Transportation Safety Tests on lithium primary batteries used in Ocean Signal RescueMe PLB  
**Test Report Date:** 12/03/2013

### Battery Information

**Part Number:** 731S-01291  
**Battery Makeup:** Battery containing three 123 cells connected in series  
**Gross Weight (kg):** 0.05 **Net Weight (kg):** 0.05  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.65 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

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**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB8E

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 032015-3 **Report Title** UN Transportation Safety Tests on lithium primary batteries Ocean Signal ref: 901S-01721  
**Test Report Date:** 31/05/2019

### Battery Information

**Part Number:** 703S-01608  
**Battery Makeup:** Battery containing three 123 cells connected in series. Two batteries are fitted in the product and are isolated from each other for transportation.  
**Gross Weight (kg):** 0.05 **Net Weight (kg):** 0.05  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.53 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator

**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB9M

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 032015-1 **Report Title** UN Transportation Safety Tests on lithium primary batteries  
**Test Report Date:** 31/05/2019

### Battery Information

**Part Number:** 741S-01776  
**Battery Makeup:** Battery containing two 123 cells connected in series  
**Gross Weight (kg):** 0.03 **Net Weight (kg):** 0.03  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.10 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB10F

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 032015-5 **Report Title** UN Transportation Safety Tests on lithium primary batteries Ocean Signal ref: 901S-01712  
**Test Report Date:** 31/05/2019

### Battery Information

**Part Number:** 751S-01771  
**Battery Makeup:** Battery containing three 123 cells connected in series  
**Gross Weight (kg):** 0.05 **Net Weight (kg):** 0.03  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.65 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator

**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB11E

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 032015-4 **Report Title** UN manual of tests report 901S-01712 EDF1  
**Test Report Date:** 31/05/2019

### Battery Information

**Part Number:** N/A  
**Battery Makeup:** Battery containing three Ultralife U10013 'D' cells connected in series

<b>Gross Weight (kg):</b> 0.39	<b>Net Weight (kg):</b> 0.425
<b>Battery Type:</b> Lithium Metal	<b>Lithium Content or Rating:</b> 15.0 grams
<b>UN 38.3 clause:</b> 38.3.3(f)	<b>UN 38.3 Tests Passed:</b> T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

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# Lithium Battery Test Summary

In accordance with sub-section 38.3 of the UN Manual of Tests and Criteria



## Battery Model: LB12M

### Manufacturer Information

**Manufacturer:** Ocean Signal Ltd. Unit 4, Ocivan Way, Margate, CT9 4NN, United Kingdom  
**Phone Number:** +44 (0)1843 282930  
**Email address:** info@oceansignal.com  
**Website Address:** oceansignal.com

### Test Report Information

**Test House:** Sartech Engineering Ltd. 13 Trowers Way, Holmethorpe Industrial Estate, Redhill, RH1 2LH, United Kingdom  
**Phone Number:** +44 (0)1737 372670  
**Email address:** info@sartech.com  
**Website Address:** sartech.com  
**Test Report No.:** 032015-1 **Report Title** UN Transportation Safety Tests on lithium primary batteries  
**Test Report Date:** 31/05/2019

### Battery Information

**Part Number:** 743S-02849  
**Battery Makeup:** Battery containing two 123 cells connected in series  
**Gross Weight (kg):** 0.03 **Net Weight (kg):** 0.04  
**Battery Type:** Lithium Metal **Lithium Content or Rating:** 1.10 grams  
**UN 38.3 clause:** 38.3.3(f) **UN 38.3 Tests Passed:** T1, T2, T3, T4, T5

Signed By: David Sheekey, Type Approval and QMS Facilitator  
**Date:** 16/03/2020

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