Testing an Enclosure for the Safe Recovery of Damaged Electronics: Work for UK AAIB

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HSL’s Battery Testing Facility

HSL: HSE’s Health and Safety Laboratory

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Testing an Enclosure for AAIB

Test Plan

- Test 1 - iPhone 4S (1.4 Ah)
- Test 2 - iPad 3 (11.5 Ah)
- Test 3 - Single 18650 cell (2.9 Ah)
- Test 4 - Laptop pack - multiple 18650 cells
- Test 5 - Tablet pack - multiple pouch
Test 1- iPhone - after

Test 2- iPad - after
Test 3- Single 18650
Test 3 - Single 18650

Test 4 - 18650 Pack - before
Test 4 - 18650 Pack - after

Test 5 - Tablet pouch pack - before
Conclusions

- Enclosure could be necessary (!)
- Enclosure is basically sound
- Combustion gases produced
- Residues need decontamination
Thanks to

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