

**INDEPENDENT TEST CARRIED OUT ON STANDARD FUMECARE GRADUATE SCHOOLS CABINET
USING FUMECARE MANUFACTURED EDUCATIONAL CARBON FILTER ON 26 SEPTEMBER 2017**

Fumecare Graduate

S/N S3532.5

Sash height (mm) 340.00

Sash width (mm) 525.00

0.39	0.42	0.43
0.39	0.43	0.40
0.46	0.43	0.37

0.38

Average 0.41 m/s

max. reading 0.46 m/s

Min. reading 0.37 m/s

Upper variation 11.29 %

Lower variation 10.48 %

SMOKE TEST

GOOD CAPTURE

% increase on average at 400 mm Pass

Sound level (dB) 56.20dB Pass

Area of opening (m2) 0.36 Vol flow (cm3/s) 148800.00

Filter fume cupboard tests

Butane

Mass of butane before (g) 2400.10

Mass of butane after (g) 2396.30

Time (s) 120.00

Rate of vapour release (cm3/s) 11.87

Detection tube reading (ppm) 0.00 Efficiency(%) 100.00 Pass

sulfur dioxide 0.00

Mass of sulfur dioxide before (g) 2902.40

Mass of sulfur dioxide after (g) 2898.10

Time (s) 120.00

Rate of vapour release (cm3/s) 13.44 Ci (ppm) 90.31

Detection tube reading 0.00 Efficiency(%) 100.00 Pass

ammonia

Mass of ammonia before (g) 2007.30

Mass of ammonia after (g) 2006.30

Time (s) 100.00

Rate of vapour release (cm3/s) 3.75 Ci (ppm) 25.20

Detection tube reading 0.00 Efficiency(%) 100.00 Pass