



No. 1272395.3

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 19.3.19

SAMPLE DESCRIPTION:
Green woven fabric – Zap
Nominal Composition – 83% Virgin Wool 17% Polyamide
Nominal Weight – 470g per lineal metre
End Use – Upholstery & Screen Use

Client Order No.:

Client Reference:

1 of 8

ISO 5660.1-2015 - Reaction to Fire Tests – Heat release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Note: This test was sub-contracted (test number 19-001515).

	Specimens			Mean
	1	2	3	
Average Heat Release	8.4	9.8	10.4	9.5 kW/m ²
Average Specific Extinction Area	52.9	60.2	74.4	62.5 m ² /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				2S


Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /sec.
Time to Sustained Flaming	18	15	18	17 sec.
Test Duration	1818	1815	1818	1817 sec.
Peak Heat Release After Ignition	169.9	197.6	187.8	185.1 kW/m ²
Average Heat at 180 s	43.3	49.3	47.8	46.8 kW/m ²
Average Heat at 300 s	31.2	35.1	34.7	33.7 kW/m ²
Total Heat Released	15.2	17.7	18.8	17.2 MJ/m ²
Ave. Effective Heat of Combustion	7.8	8.2	9.3	8.4 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	80.7	82.3	82.7	81.9 g
Mass at Sustained Flaming	80.4	82.2	82.5	81.7 g
Mass Remaining	64.8	94.9	66.2	65.3 g
Mass Loss	1961.5	2151.5	2037.8	2050.3 g/m ²
Average Rate of Mass Loss	1.1	1.2	1.1	1.1 g/m ² .s

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L A Greer
Signatory


C Judan
Signatory

07/05/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

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Total Smoke Production (non-flaming phase)	2.4	0.1	2.5	1.7 m ² /m ²
Total Smoke Production (flaming phase)	130.8	132.0	153.8	138.9 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	133.2	132.1	156.3	140.5 m ² /m ²
Specimen Surface Area	0.00810	0.00810	0.00810	
C-Factor (Calibration Constant)	0.038951	0.038951	0.038951	

Additional Observation: None
Difficulties Encountered During Testing: None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be sole criterion for assessment of performance under real fire conditions.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.


Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

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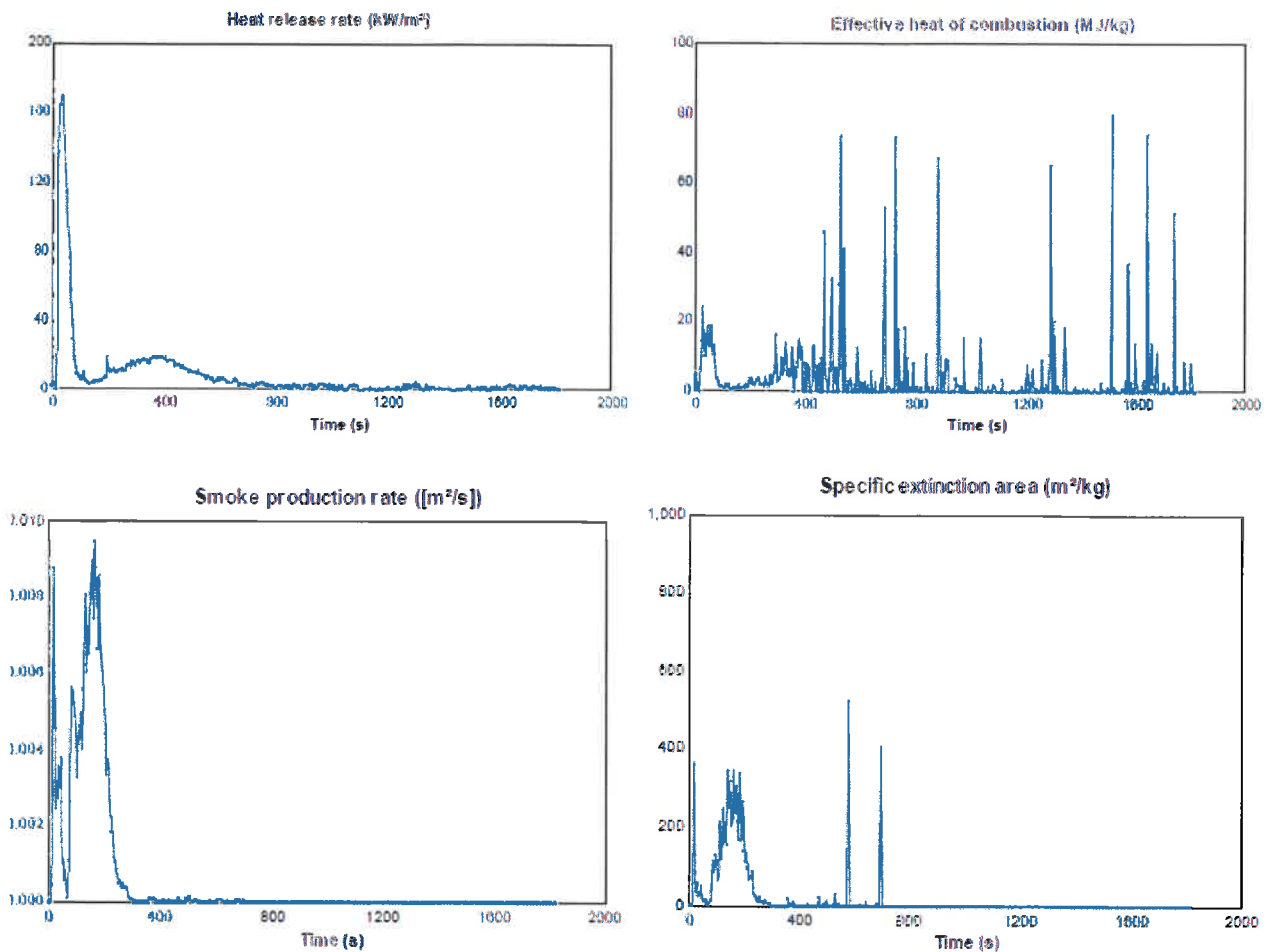
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Specimen : 1



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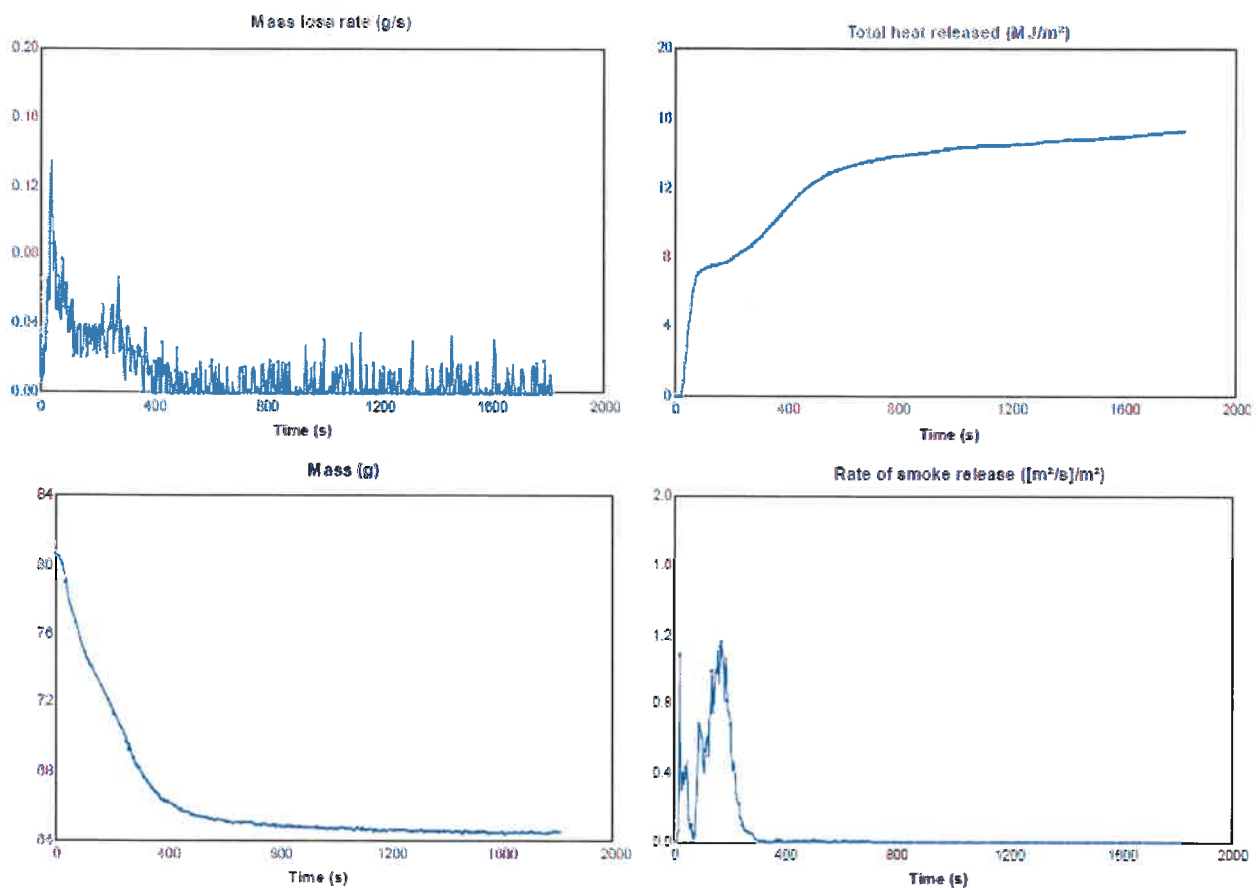
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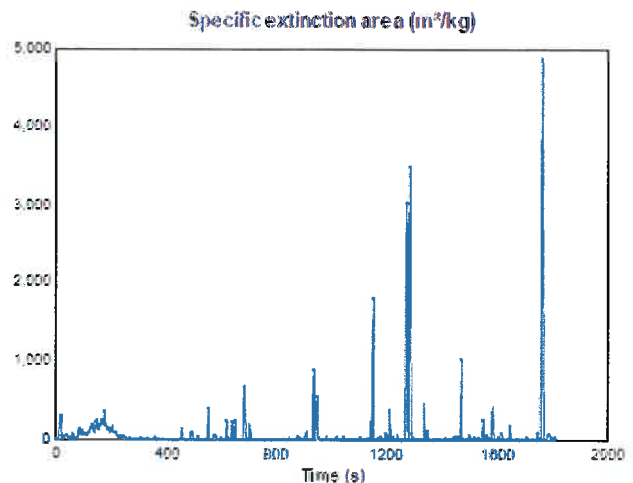
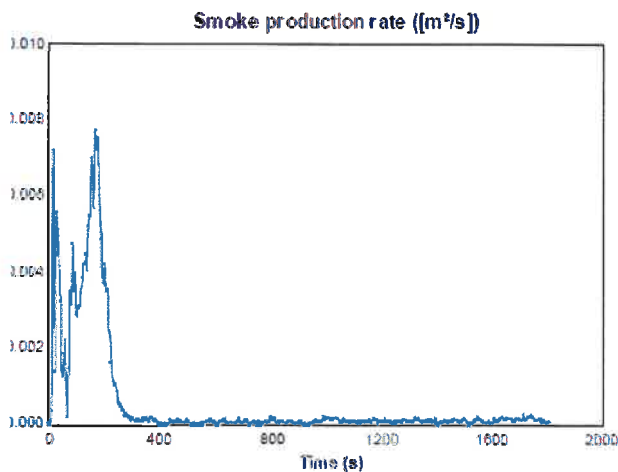
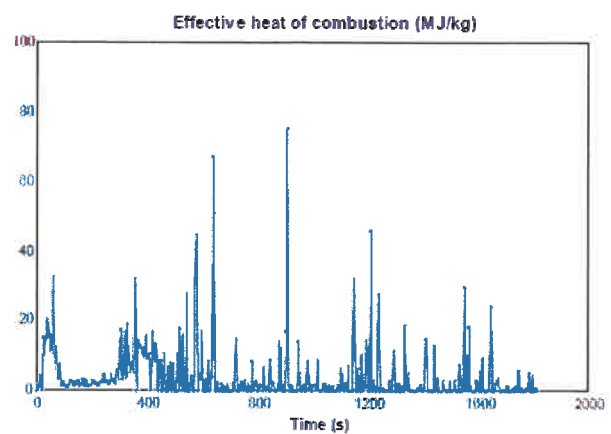
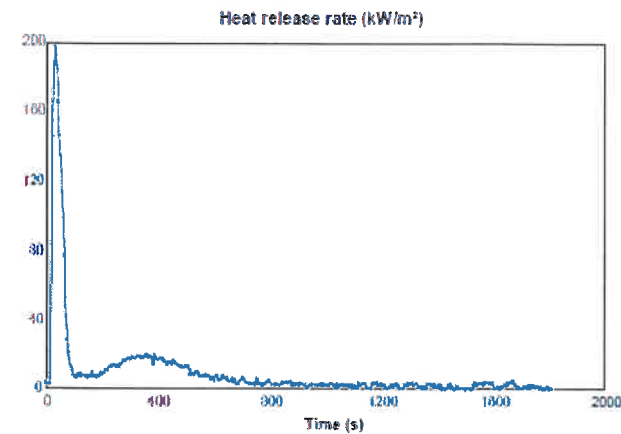
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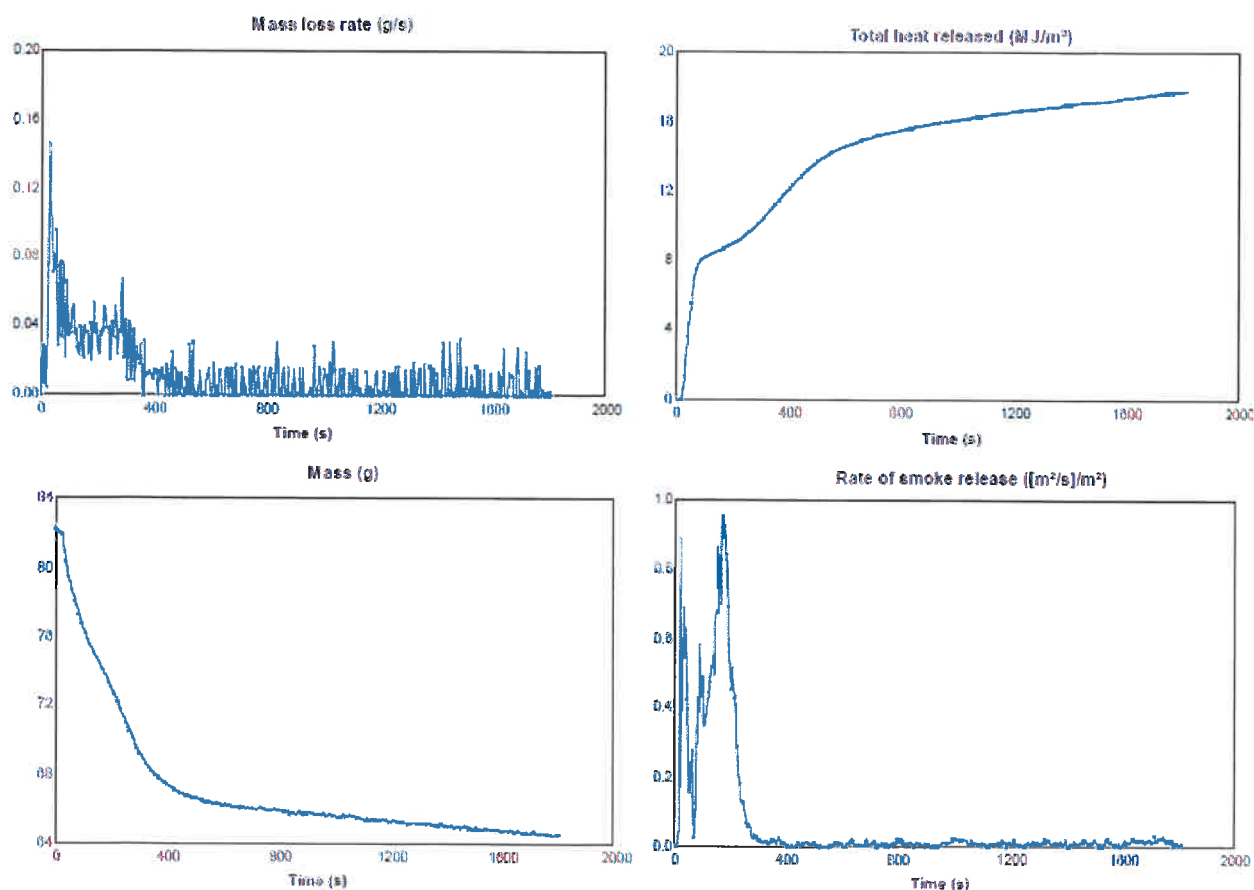
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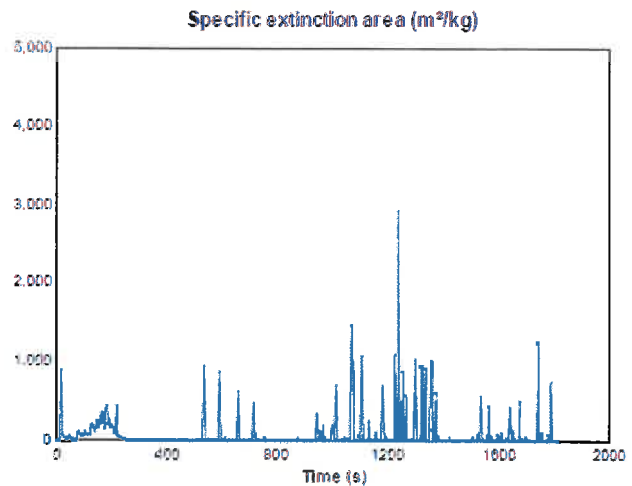
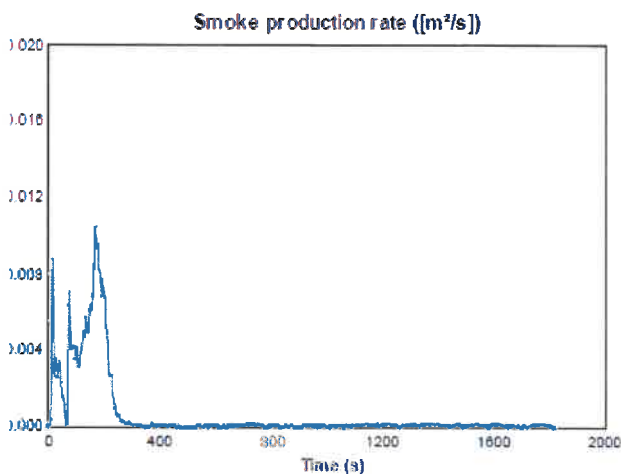
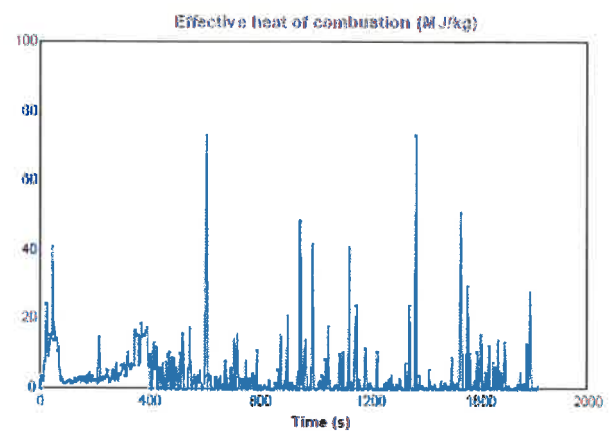
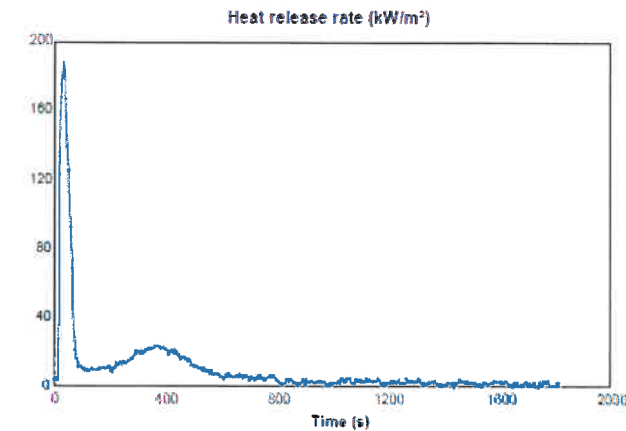
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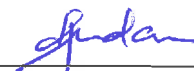
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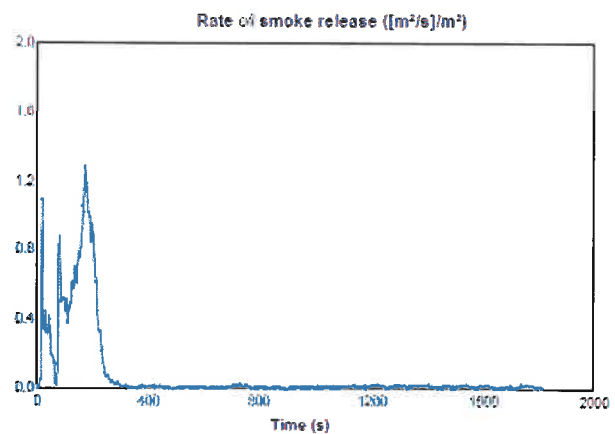
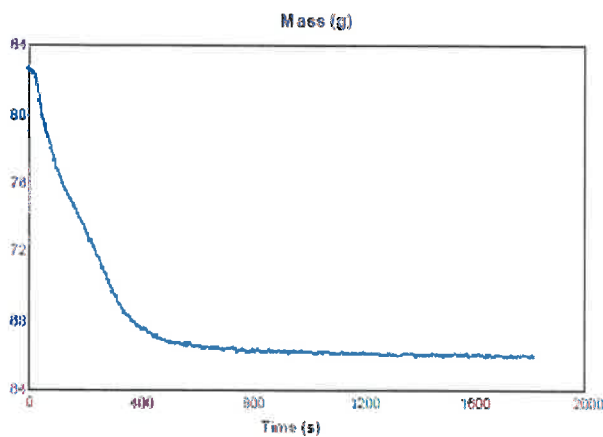
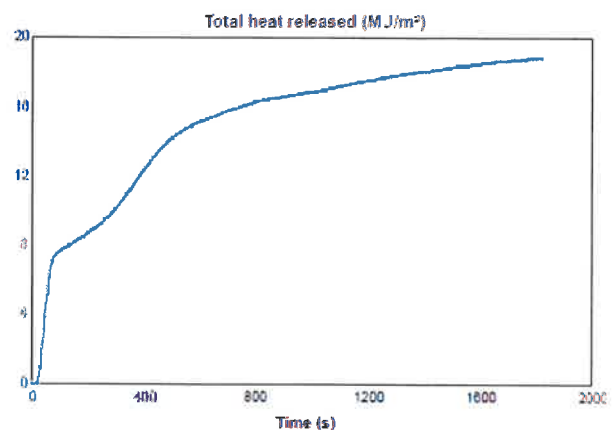
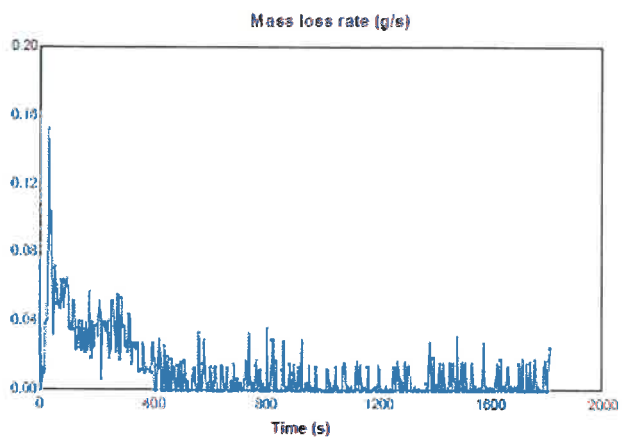
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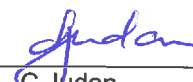
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