



## No. 1259527.8D

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.12.18

SAMPLE DESCRIPTION:  
Fabric Name – Quilted Momentum  
Nominal Composition – 100% Polyester  
Nominal Weight – 950g per lineal metre  
End Use – Panel & Upholstery  
Colour – Grey (top layer)

Client Order No.:

Client Reference:

1 of 8

### AS/NZS 3837-1998 – Method of Test for Heat and Smoke Release Rates for Materials and Products using Oxygen Consumption Calorimeter

Note: This test was sub-contracted (test number 18-007594).

#### Note: Tested as a composite

	Specimens			
	1	2	3	Mean
Average Heat Release:	41.5	47.3	38.5	42.4 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	75.4	87.7	80.4	81.2 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				1


Test Orientation: Horizontal

	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	0.024	0.024	0.024	0.024 L/sec.
Time to Sustained Flaming	77	60	64	67 sec.
Test Duration	563	513	570	549 sec.
Peak Heat Release After Ignition	153.7	143.3	139.4	145.5 kW/m <sup>2</sup>
Average Heat at 60 s	126.2	96.2	102.1	108.2 kW/m <sup>2</sup>
Average Heat at 180 s	71.5	76.0	71.7	73.0 kW/m <sup>2</sup>
Average Heat at 300 s	58.1	63.0	57.0	59.3 kW/m <sup>2</sup>
Total Heat Released	20.6	21.4	19.4	20.5 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	10.6	10.2	9.5	10.1 MJ/kg
Initial Thickness	12	12	12	12 mm
Initial Mass	97.5	95.3	95.3	96.0 g
Mass at Sustained Flaming	95.9	94.7	94.6	95.1 g
Mass Remaining	81.7	78.3	78.6	79.5 g
Mass Percentage Pyrolysed	16.2	17.9	17.5	17.2%
Mass Loss	2.0	2.1	2.1	2.0 g
Average Rate of Mass Loss	6.4	7.2	6.6	6.7 g/m <sup>2</sup> .s

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Signatory

  
C Judan  
Signatory

05/03/2019

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Additional Observations: Nil  
Difficulties Encountered During Testing: Nil

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.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all 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.

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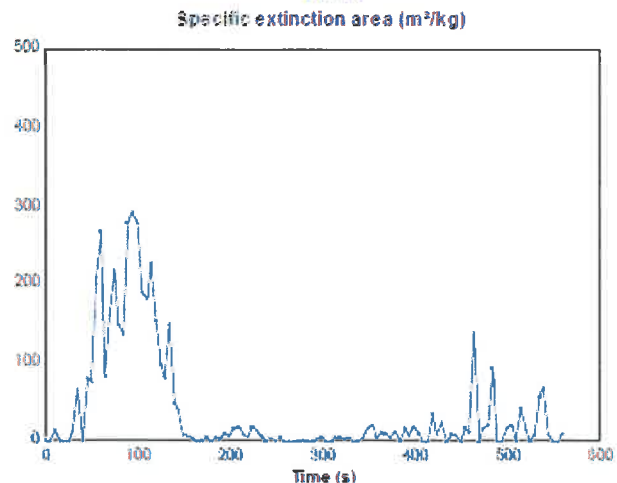
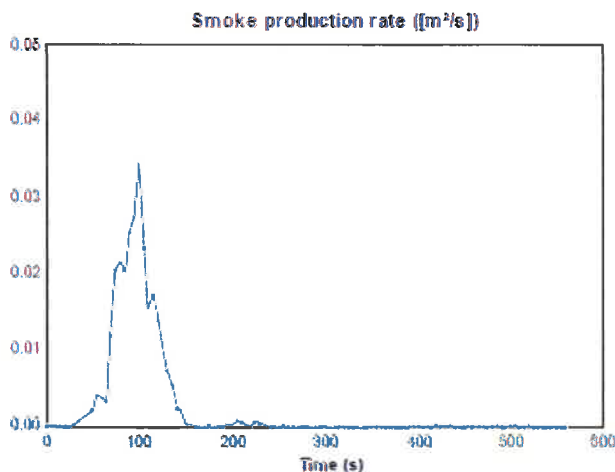
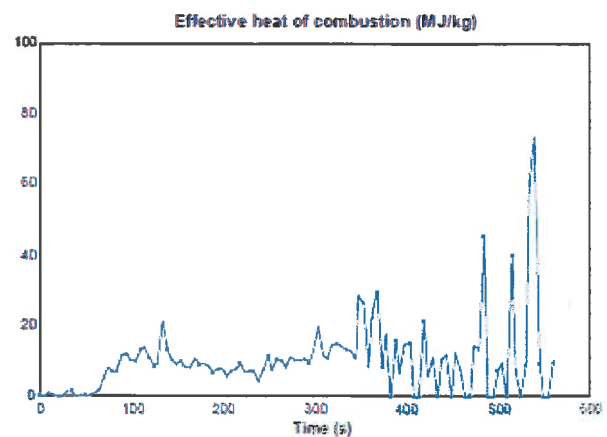
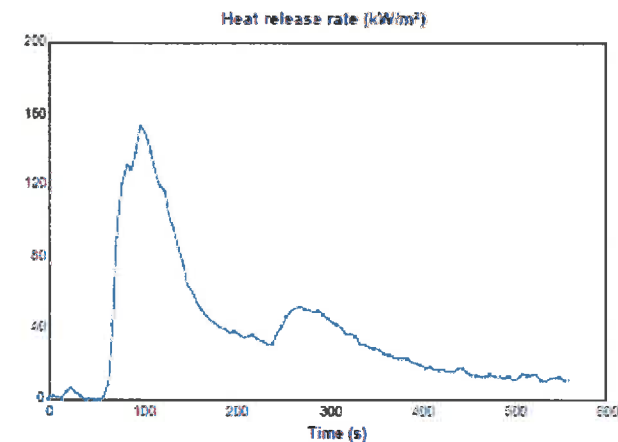
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Specimen: 1



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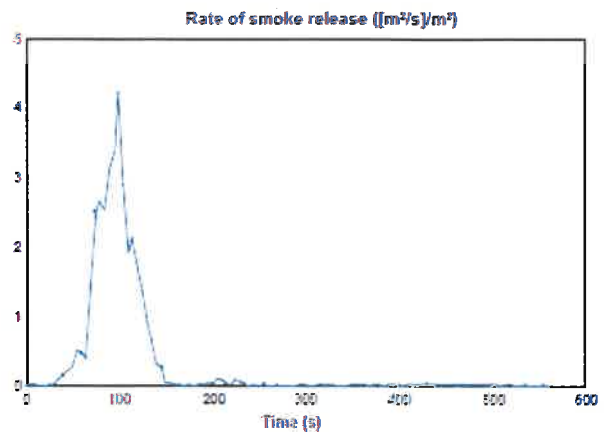
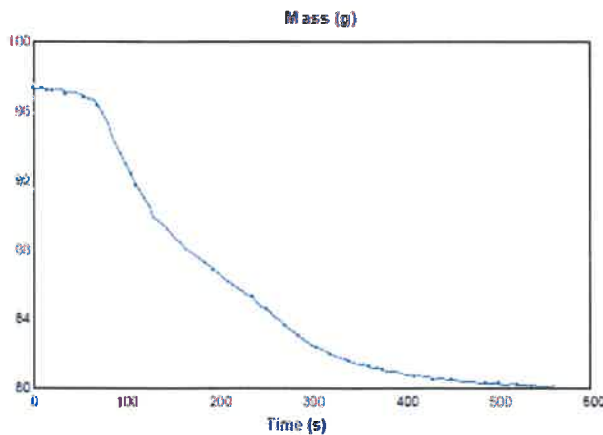
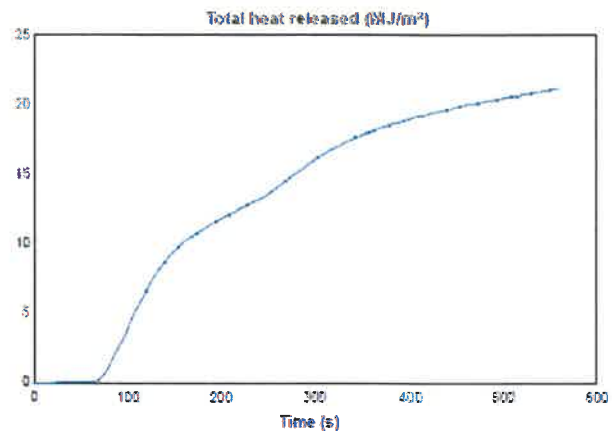
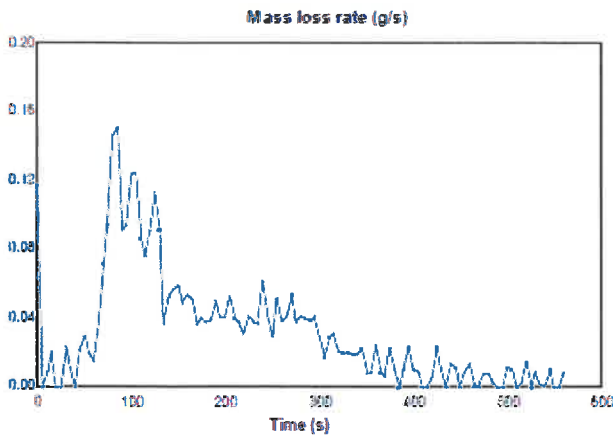
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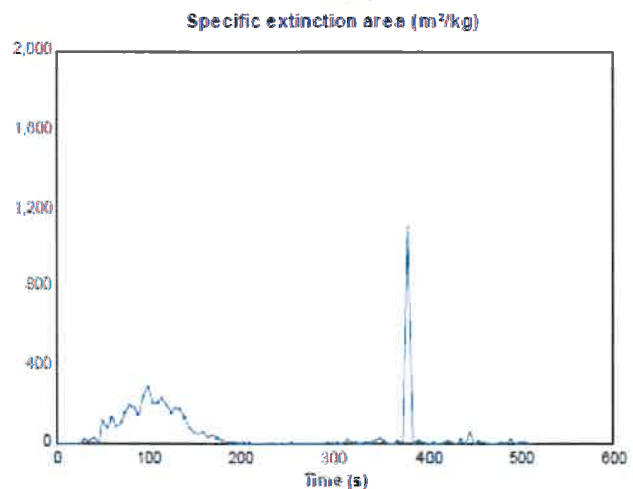
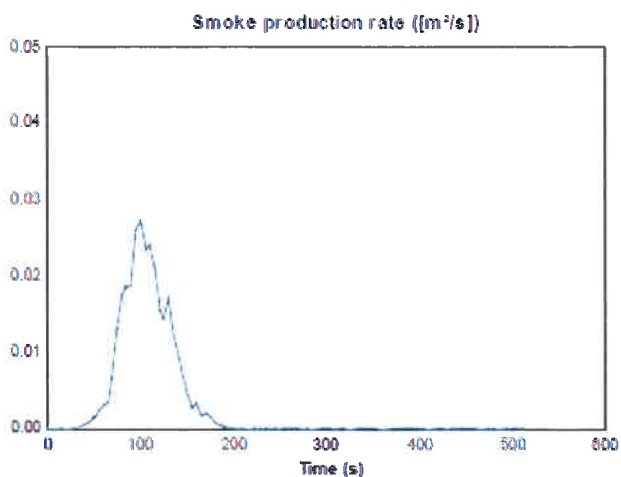
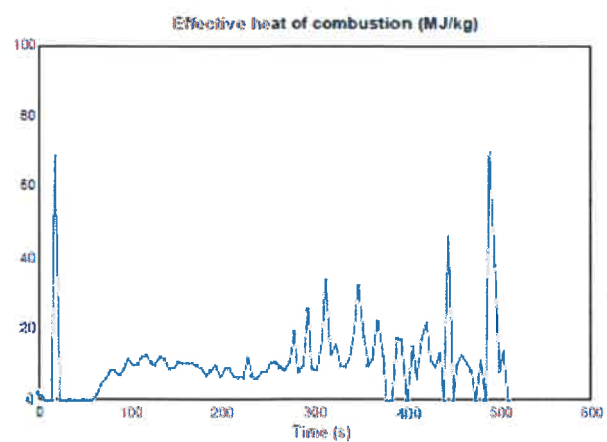
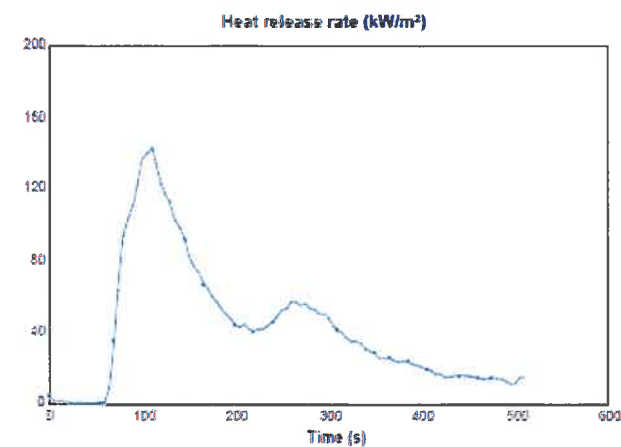
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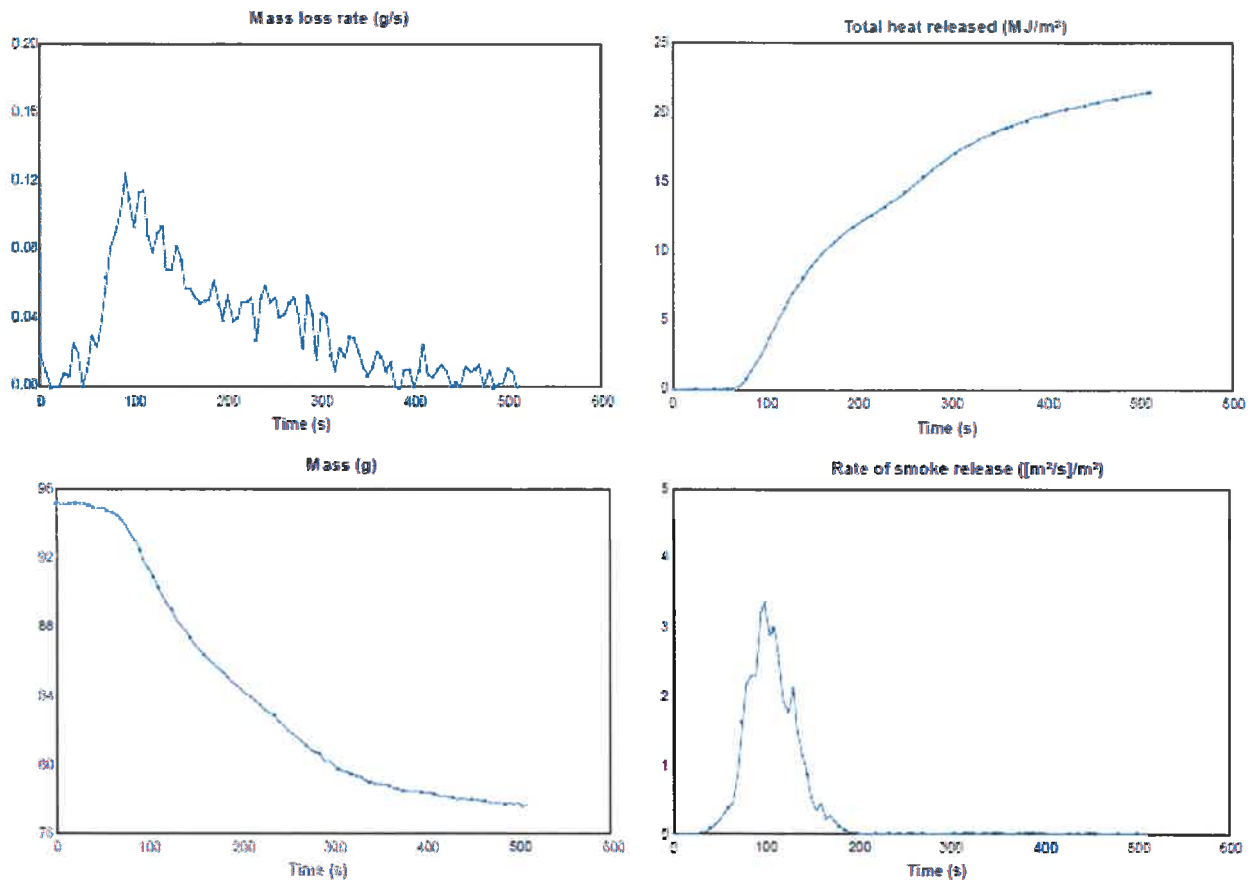
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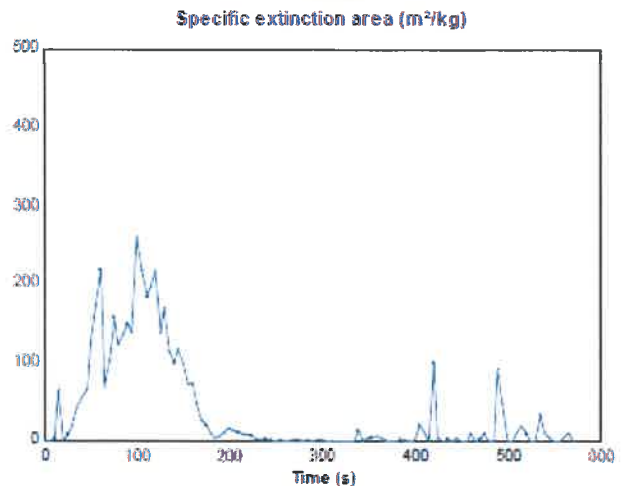
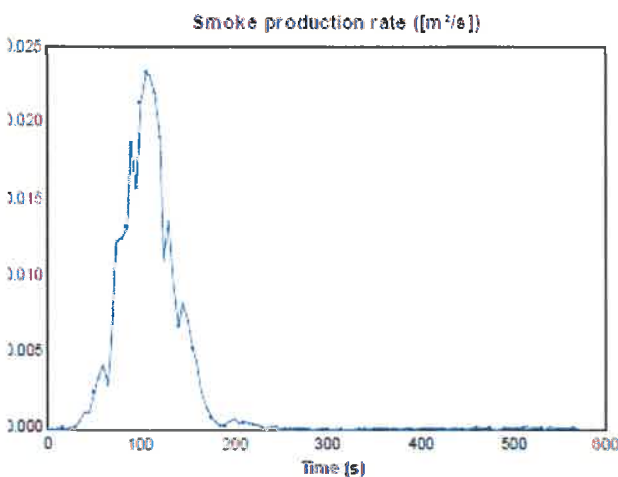
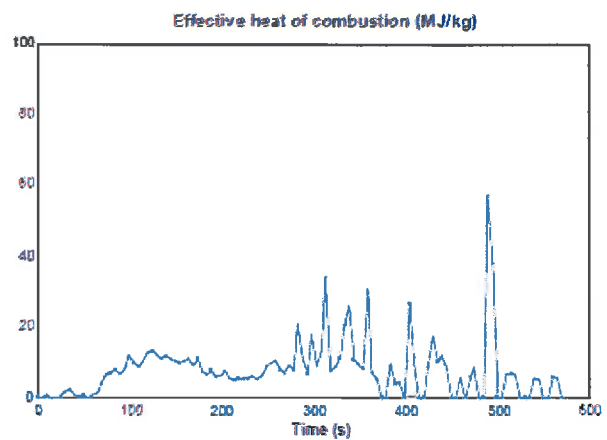
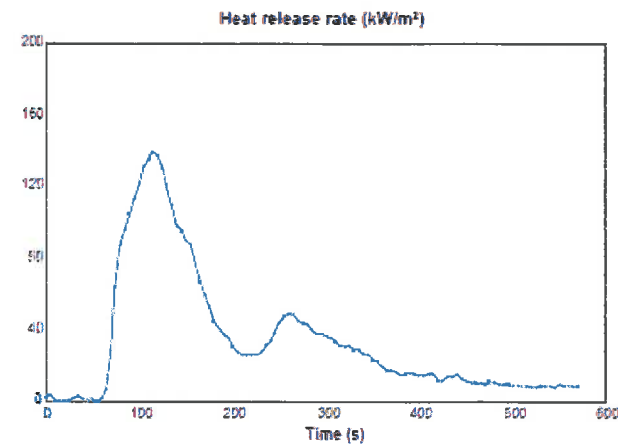
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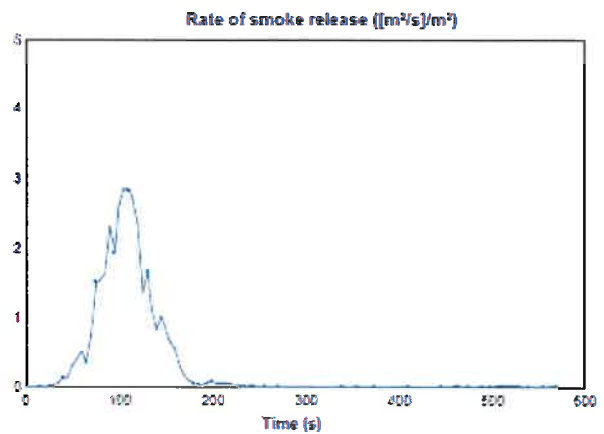
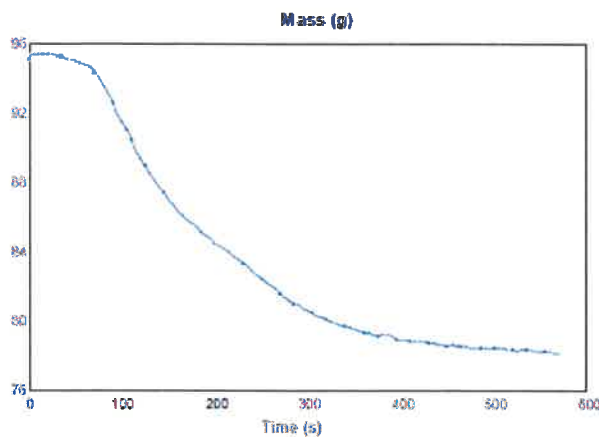
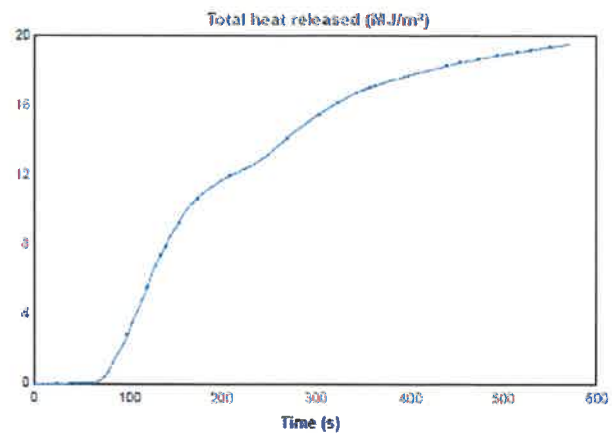
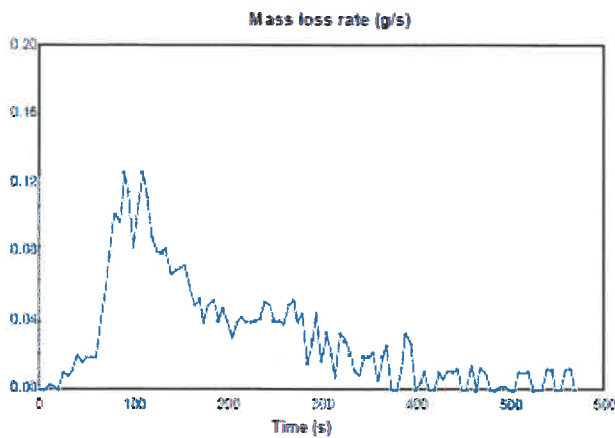
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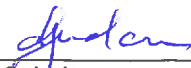
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