



No. 1183243.3B

(Please quote this number in all correspondence)

CLIENT: At Work PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: At Work	Date Received: 31.5.17
Attn.:	SAMPLE DESCRIPTION: Fabric sample – Nexus 100% Polyester, 530gm lineal metre End use – screen/panel	
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

	Specimens			Mean
	1	2	3	
Average Heat Release:	33.9	32.8	36.1	34.3 kW/m ²
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	62.1	55.9	54.0	57.3 m ² /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				1

Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	106	132	137	125 sec.
Test Duration	384	415	426	408 sec.
Peak Heat Release After Ignition	102.1	93.6	112.7	102.8 kW/m ²
Average Heat at 60 s	75.2	68.4	79.9	74.5 kW/m ²
Average Heat at 180 s	44.8	42.7	45.8	44.4 kW/m ²
Average Heat at 300 s	34.4	32.8	36.6	34.6 kW/m ²
Total Heat Released	9.3	9.2	10.7	9.7 MJ/m ²
Ave. Effective Heat of Combustion	5.9	5.8	6.2	6.0 MJ/kg
Initial Thickness	6.8	6.8	6.8	6.8 mm
Initial Mass	86.5	87.8	90.5	88.3 g
Mass Remaining	70.7	69.7	71.3	70.6 g
Mass Percentage Pyrolysed	18.2	20.6	21.2	20.0%
Mass Loss	15.8	18.1	19.2	17.7 g
Average Rate of Mass Loss	5.7	5.7	5.8	5.7 g/m ² .s

L A Greer
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C Judan
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28/06/2017

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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.

This test was carried out by a sub-contracted laboratory.

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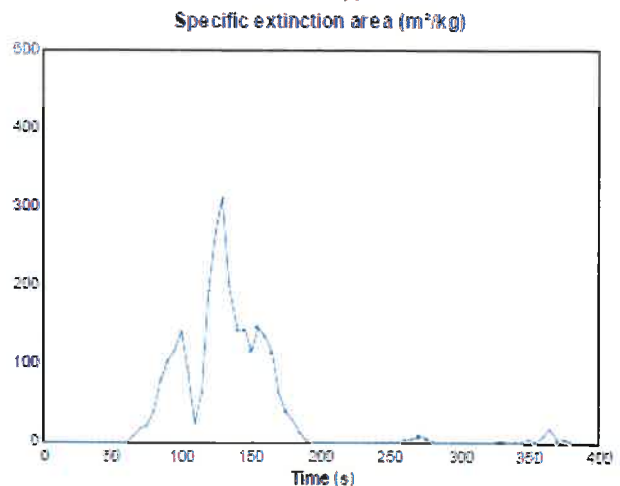
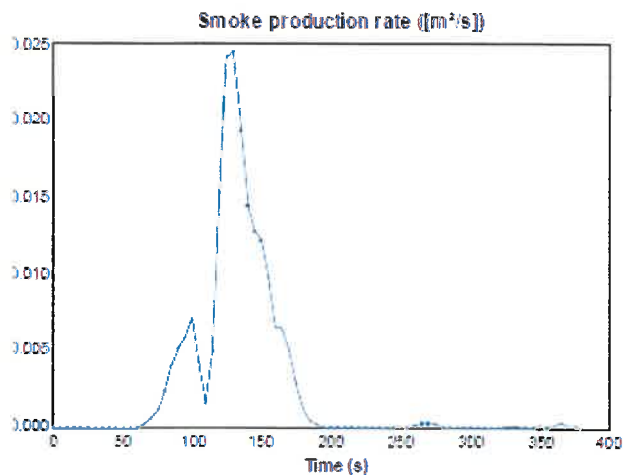
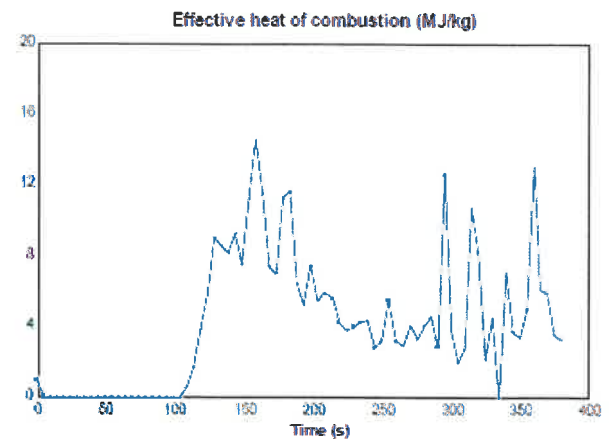
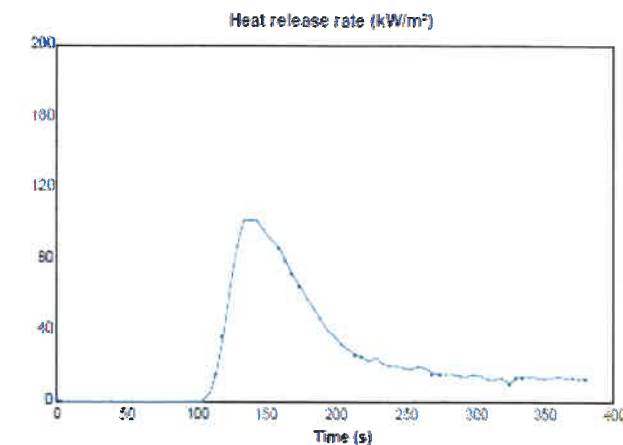
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Specimen: 1



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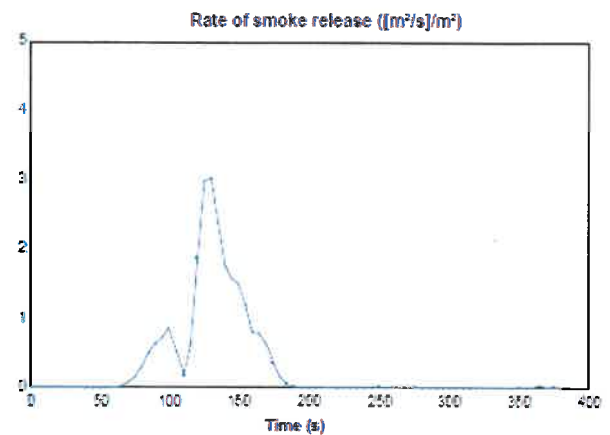
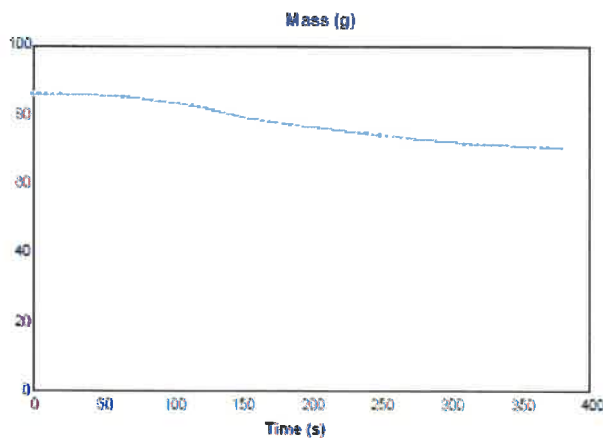
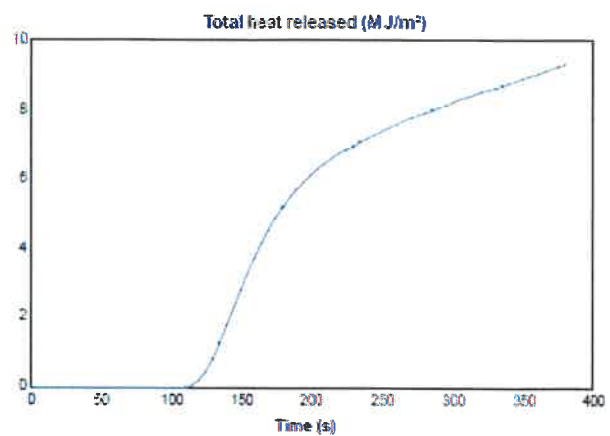
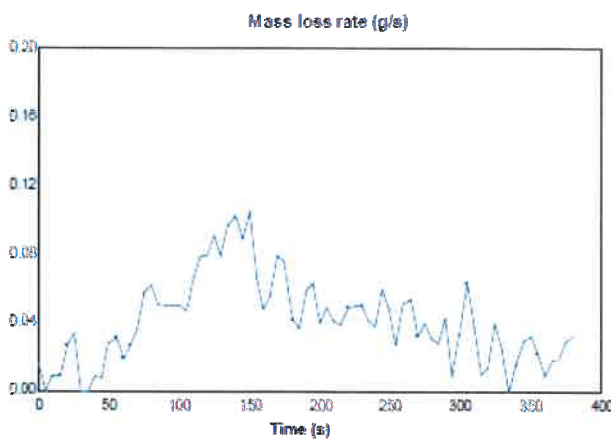
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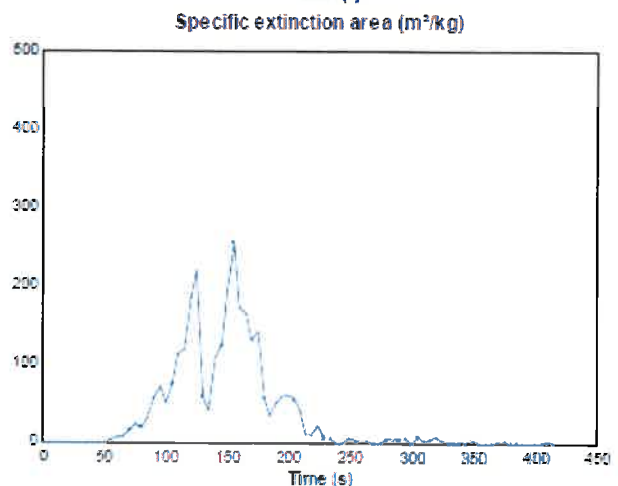
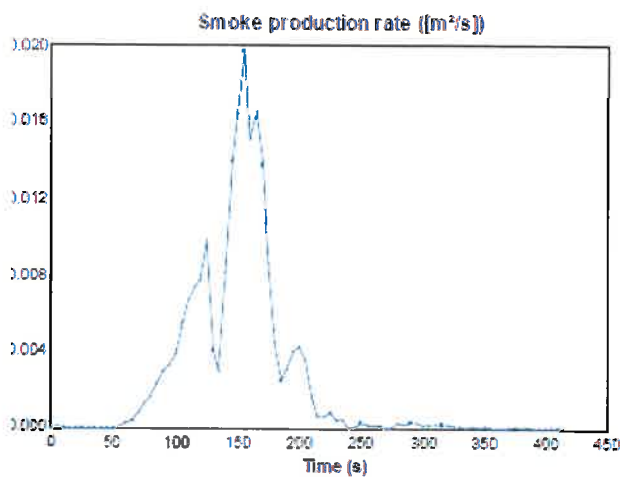
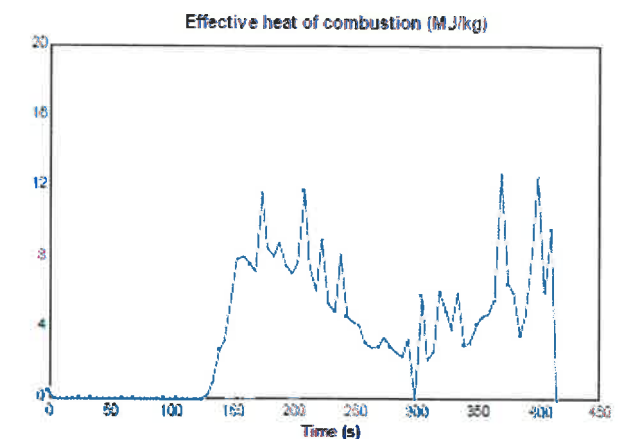
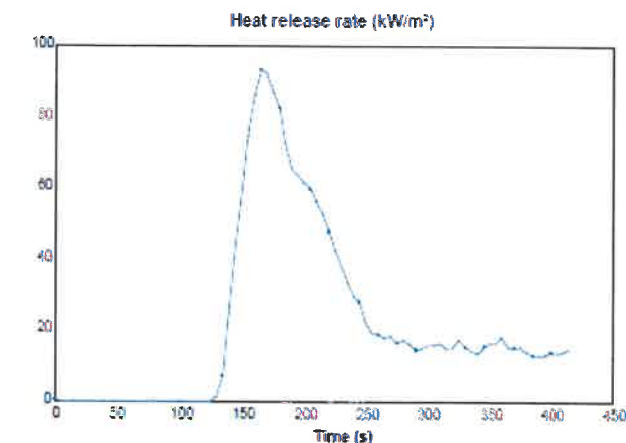
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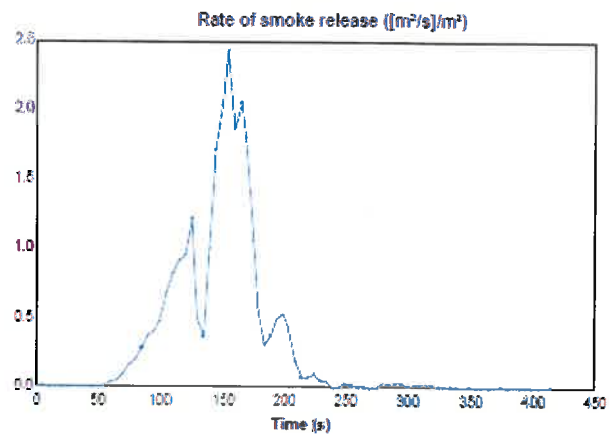
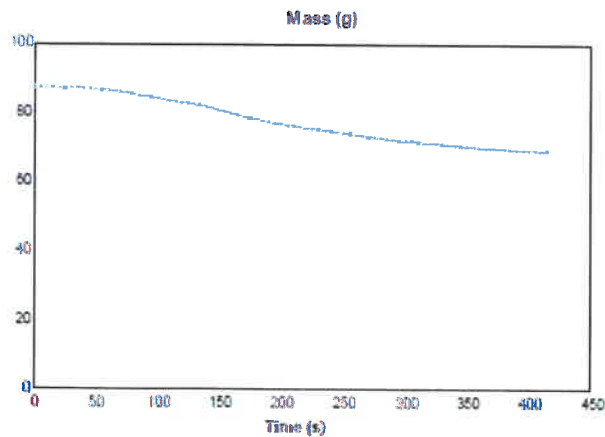
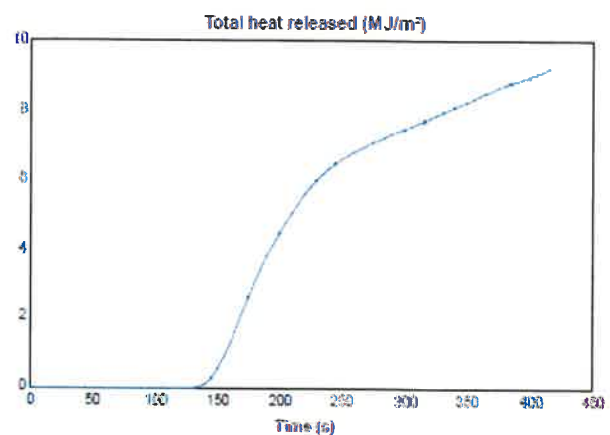
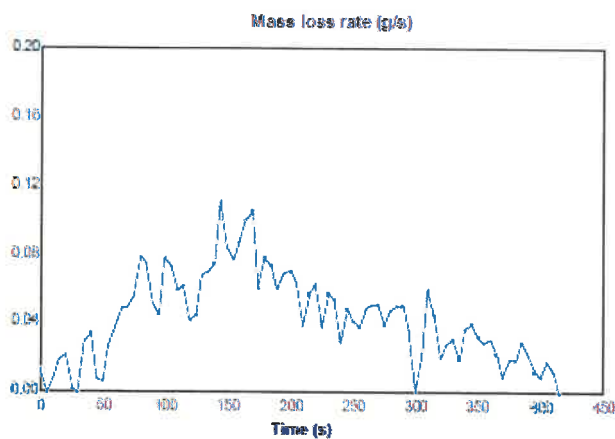
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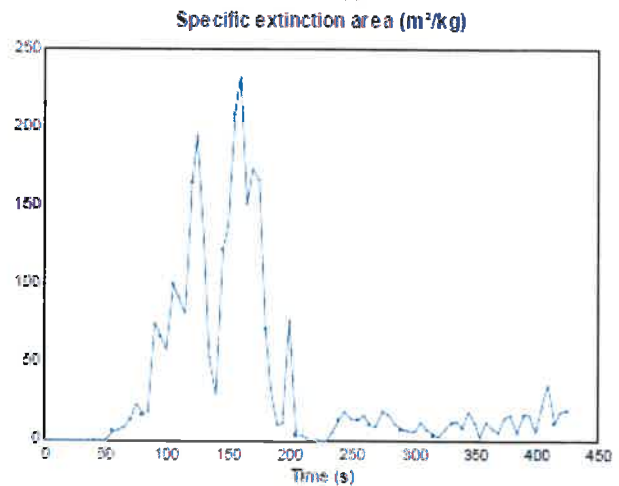
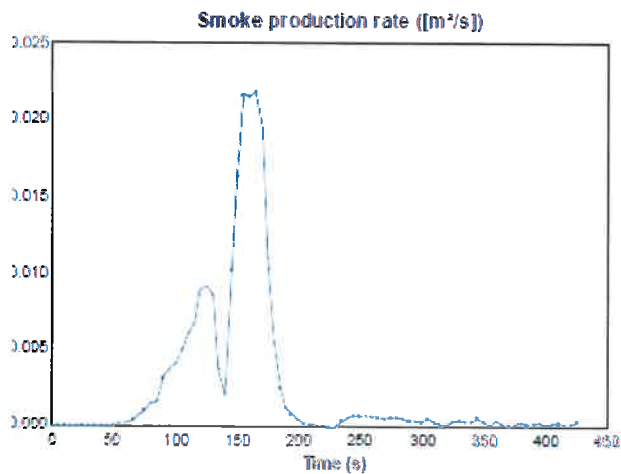
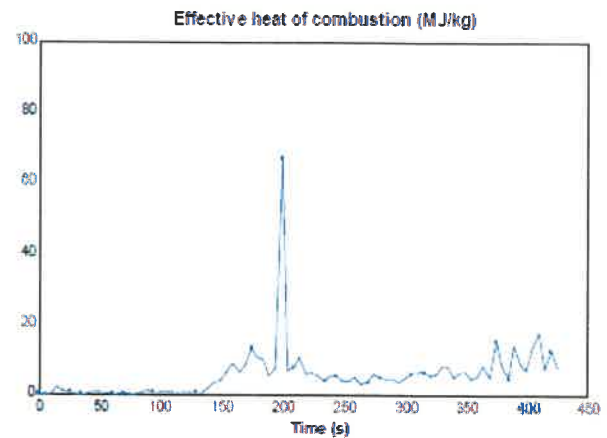
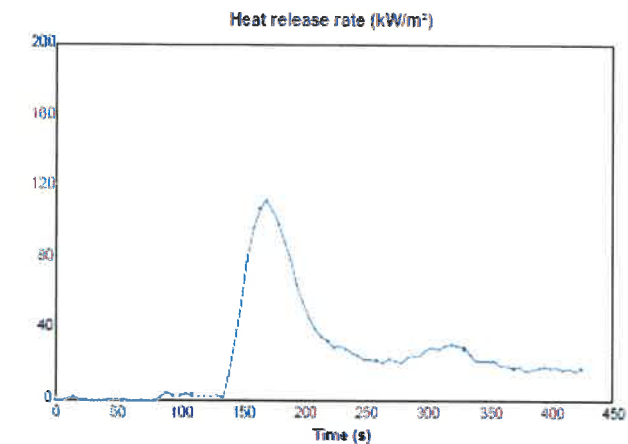
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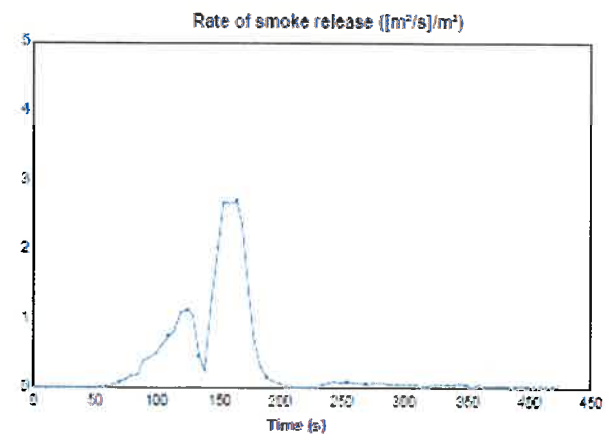
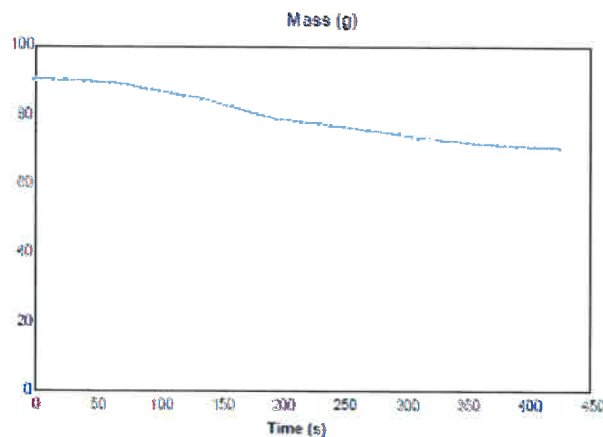
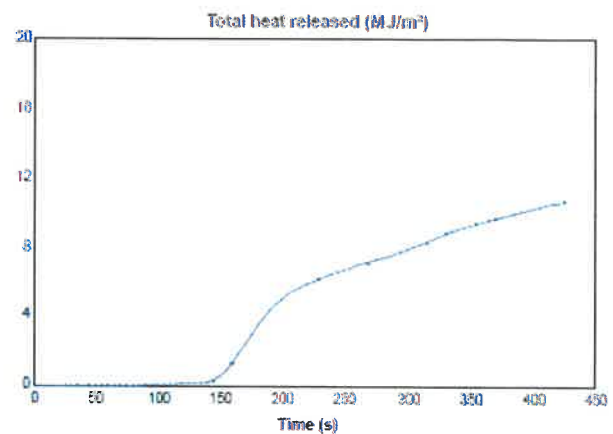
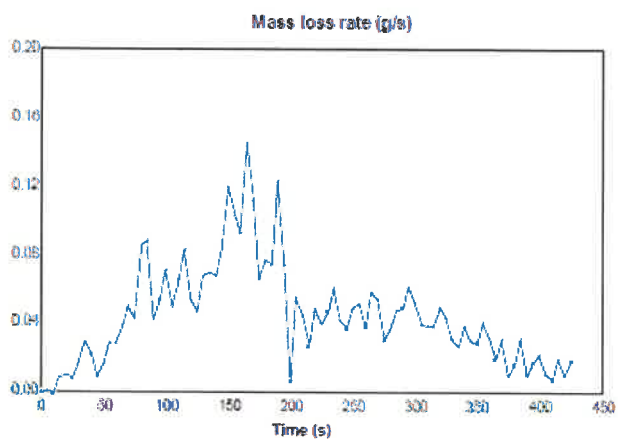
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