



No. 1200420.6E

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 12.10.17

SAMPLE DESCRIPTION:
Fabric name – Blazer Quilt
Nominal composition – 100% Wool with Polyester backing
Nominal weight – 930 grams per lineal metre
End use – Panel & Upholstery

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: Tested as a composite

	Specimens			Mean
	1	2	3	
Average Heat Release:	51.2	54.2	51.8	52.4 kW/m ²
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	136.7	168.8	154.6	153.4 m ² /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				2


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	13	12	13	13 sec.
Test Duration	234	217	218	223 sec.
Peak Heat Release After Ignition	166.4	171.9	167.2	168.5 kW/m ²
Average Heat at 60 s	132.8	139.8	132.7	135.1 kW/m ²
Average Heat at 180 s	60.1	60.1	57.6	59.3 kW/m ²
Average Heat at 300 s	n/a	n/a	n/a	n/a kW/m ²
Total Heat Released	11.2	11.1	10.6	11.0 MJ/m ²
Ave. Effective Heat of Combustion	8.4	8.4	8.2	8.3 MJ/kg
Initial Thickness	10.0	10.0	10.0	10.0 mm
Initial Mass	86.9	86.3	86.8	86.7 g
Mass Remaining	75.7	75.5	75.8	75.7 g
Mass Percentage Pyrolysed	12.9	12.5	12.7	12.7%
Mass Loss	11.2	10.8	11.0	11.0 g
Average Rate of Mass Loss	6.2	6.4	6.3	6.3 g/m ² .s

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L A Greer
Signatory


C Judan
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18/01/2018

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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.

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

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.

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.

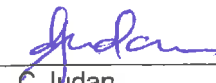
Each layer was tested separately (see report nos. 1200420.6F, G, H).

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

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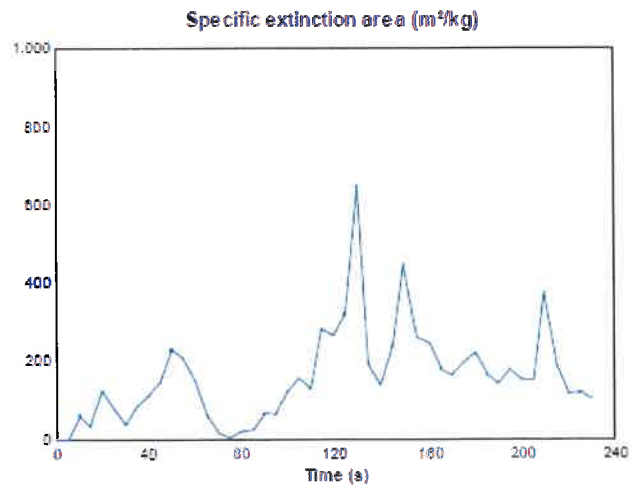
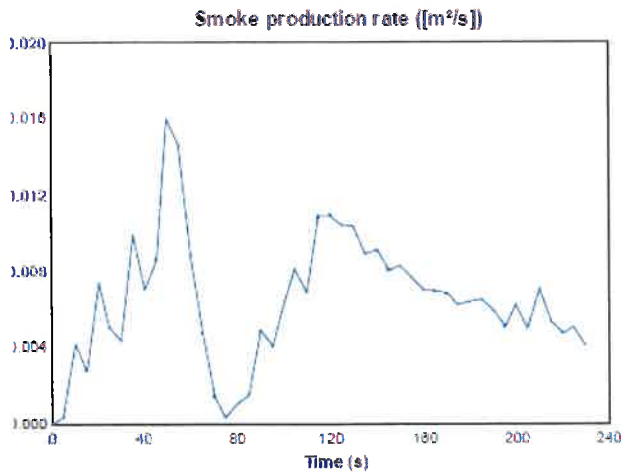
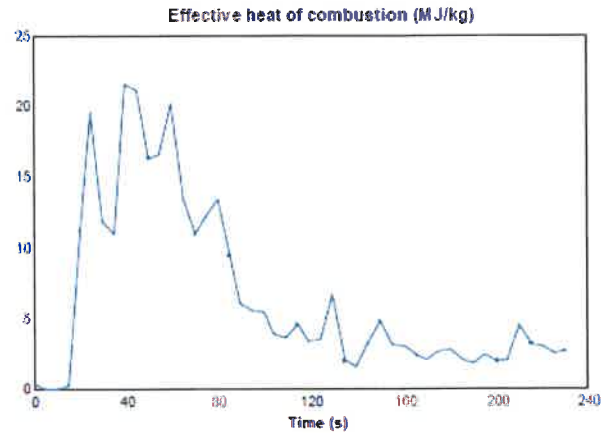
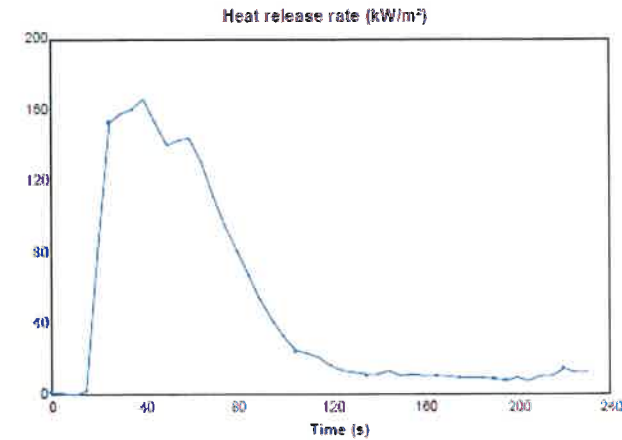
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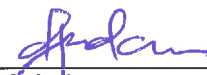
Specimen : 1



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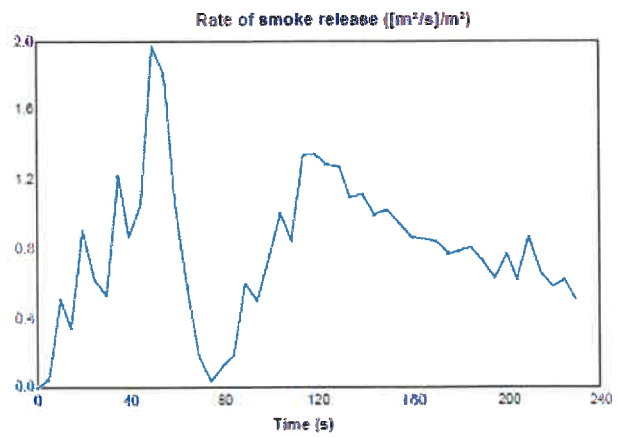
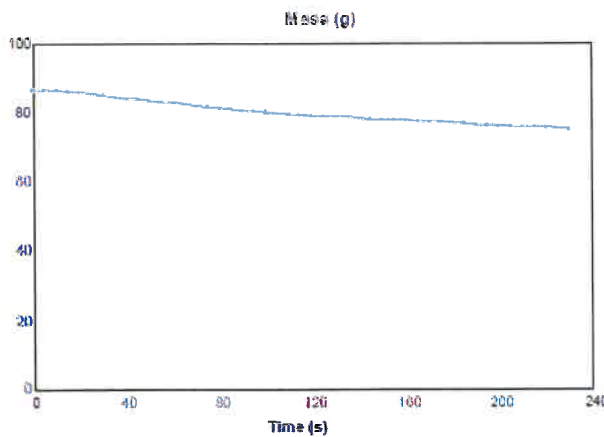
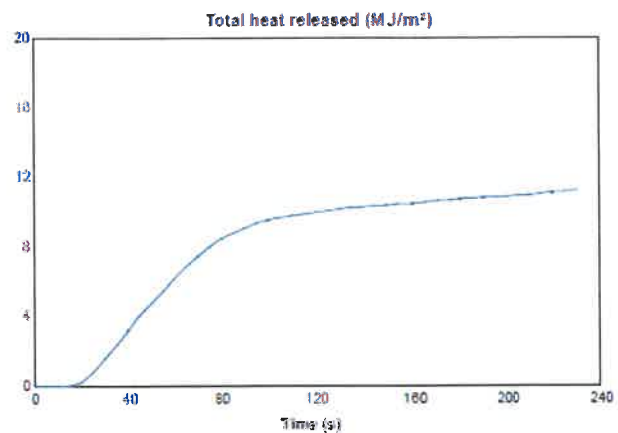
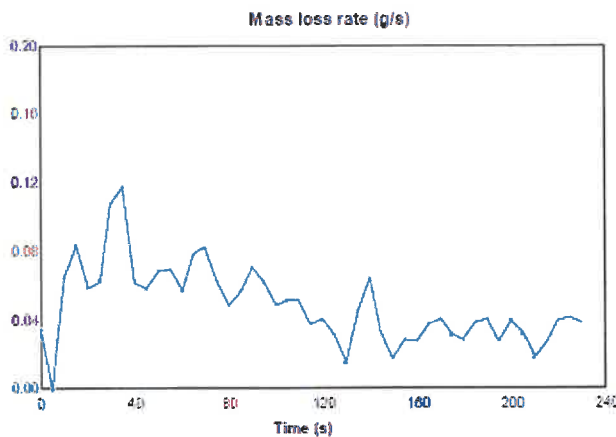
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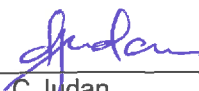
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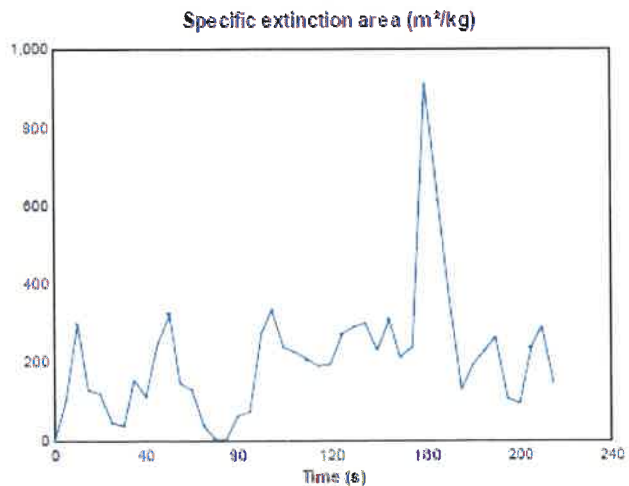
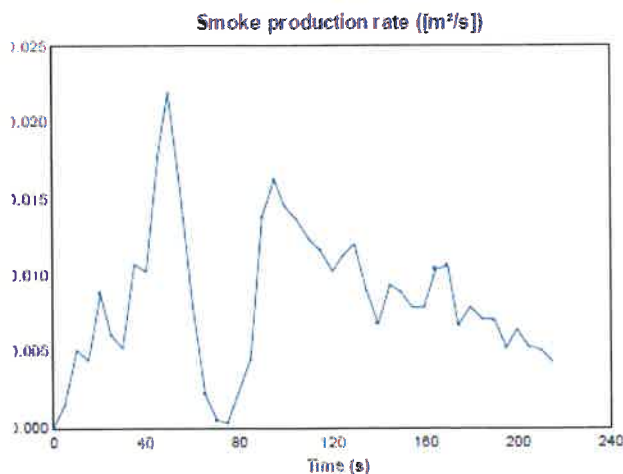
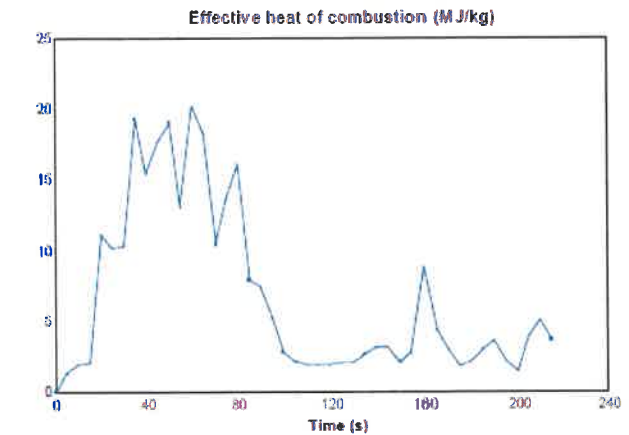
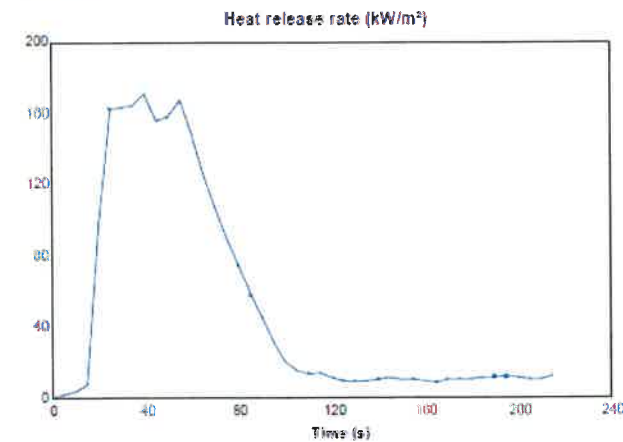
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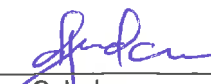
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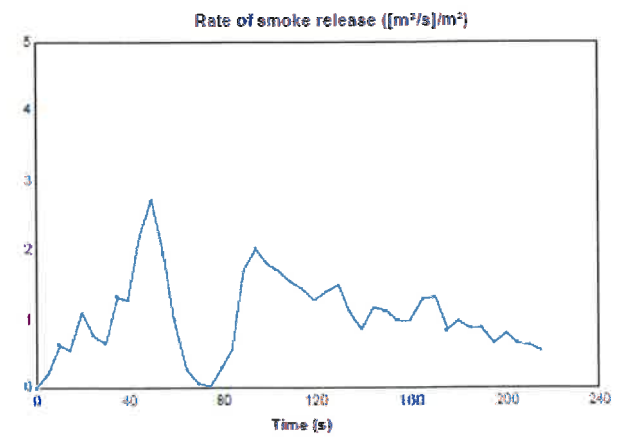
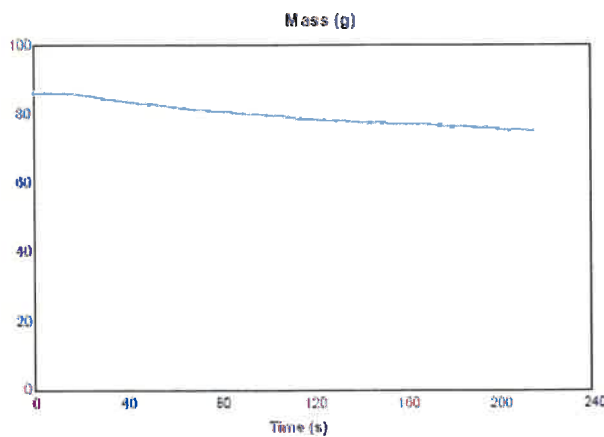
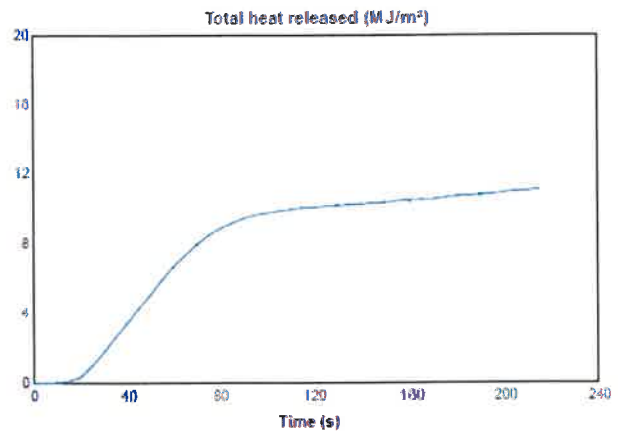
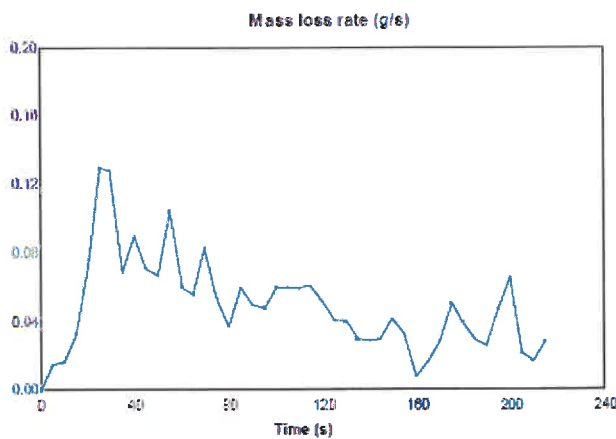
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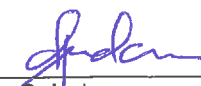
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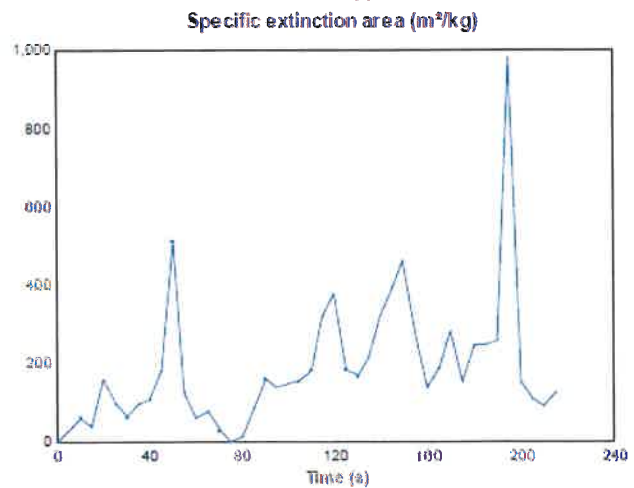
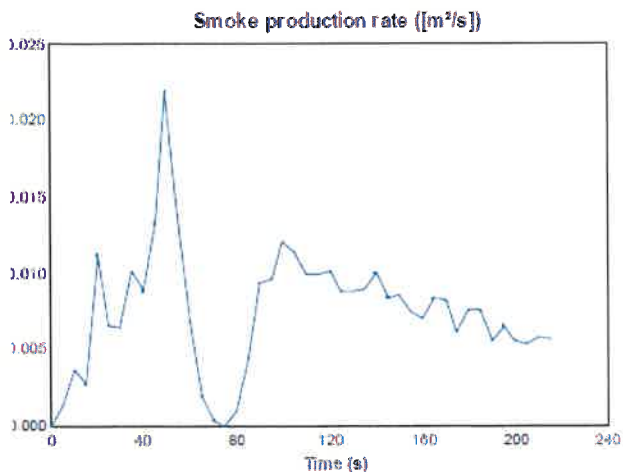
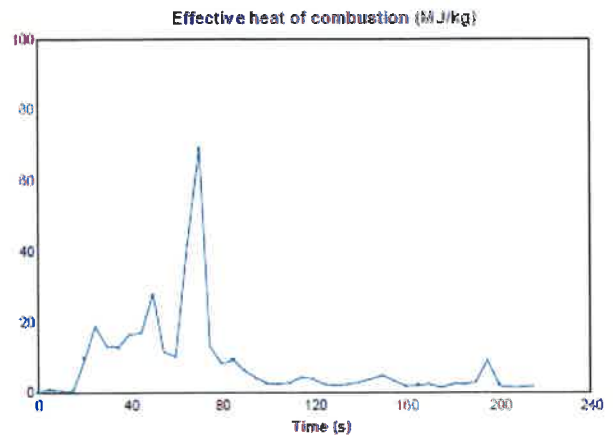
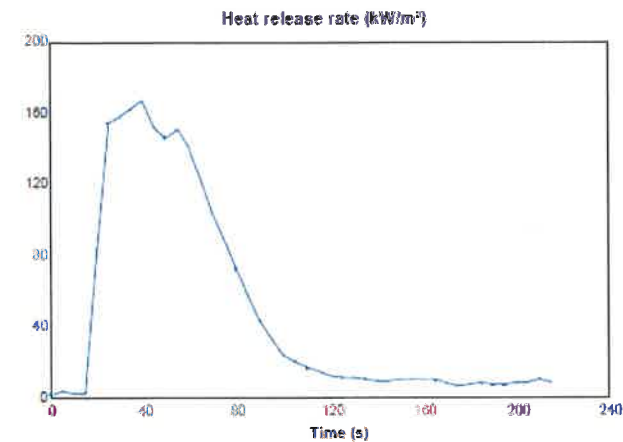
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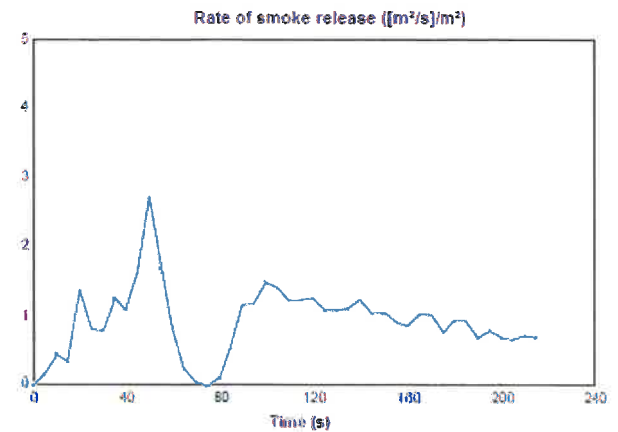
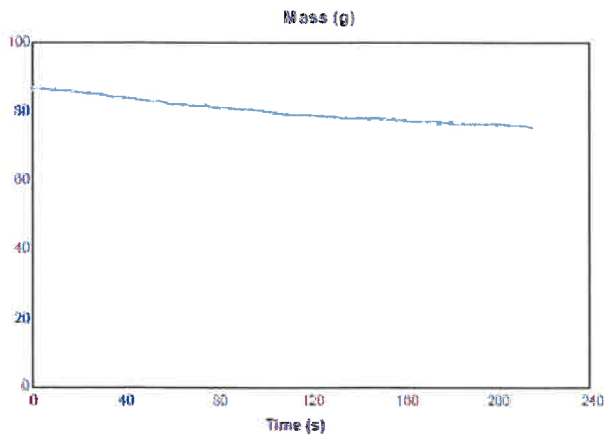
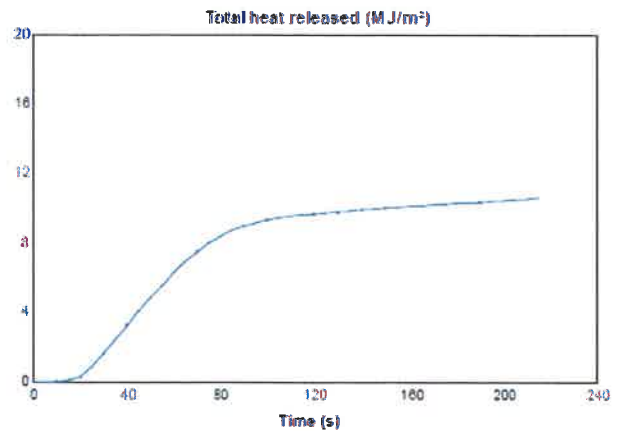
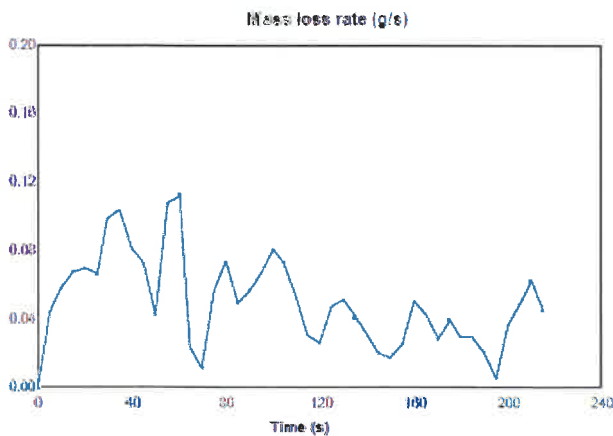
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