



No. 1194606.8

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 7.9.17

SAMPLE DESCRIPTION:
Woven fabric – Fiesta
Nominal composition – 100% Polyester
Nominal weight – 590 grams per lineal metre
End use – Panel & Upholstery

Client Order No.:

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**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)**

	Specimens			
	1	2	3	Mean
Average Heat Release	8.9	9.3	9.6	9.3 kW/m ²
Average Specific Extinction Area	59.2	93.6	105.3	86.1 m ² /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				1S


Test Orientation: Horizontal

	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	99	90	98	96 sec.
Test Duration	1899	1890	1898	1896 sec.
Peak Heat Release After Ignition	90.9	90.5	109.9	97.1 kW/m ²
Average Heat at 60 s	64.2	65.8	78.4	69.5 kW/m ²
Average Heat at 180 s	42.1	42.1	40.8	41.7 kW/m ²
Average Heat at 300 s	31.6	32.1	31.3	31.7 kW/m ²
Total Heat Released	16.0	17.0	17.3	16.8 MJ/m ²
Ave. Effective Heat of Combustion	8.7	8.8	10.2	9.2 MJ/kg
Initial Thickness	7.0	7.0	7.0	7.0 mm
Initial Mass	90.7	89.7	88.4	89.6 g
Mass Remaining	72.9	71.9	71.4	72.1 g
Mass Percentage Pyrolysed	19.6	19.8	19.2	19.6%
Mass Loss	17.8	17.8	17.0	17.5 g
Average Rate of Mass Loss	1.0	1.1	0.9	1.0 g/m ² .s

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Signatory


C Judan
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18/10/2017

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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.

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.

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

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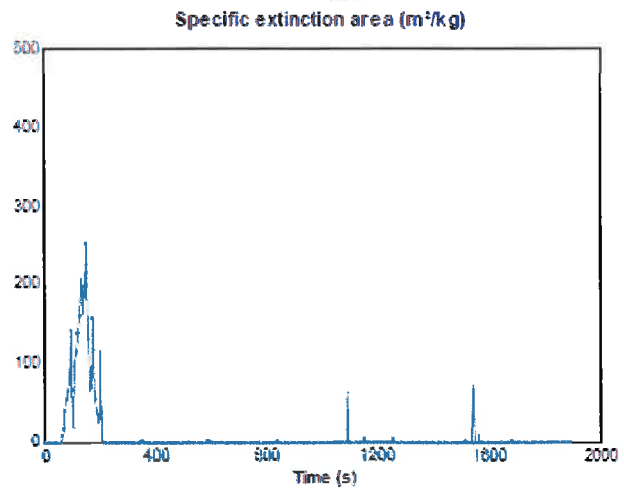
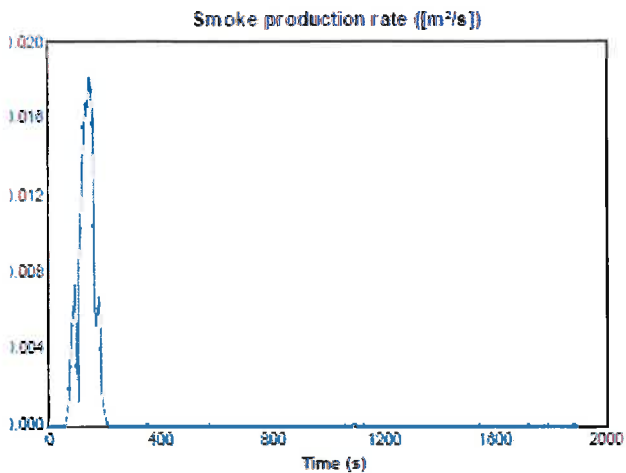
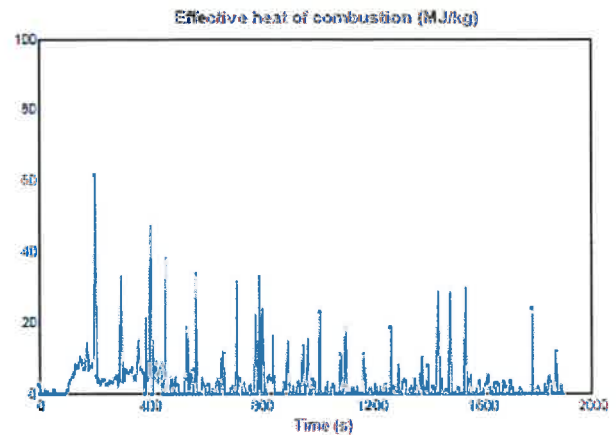
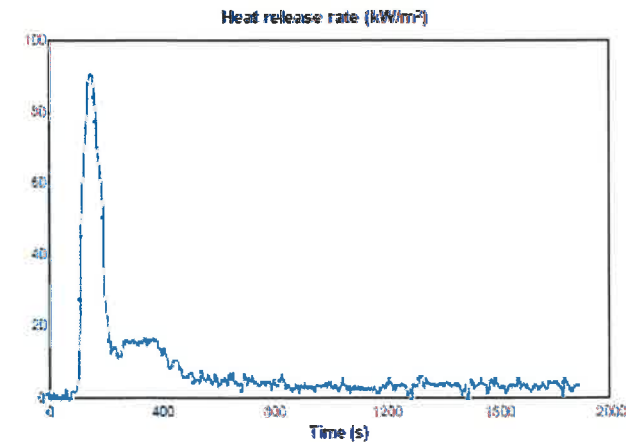
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Specimen : 1



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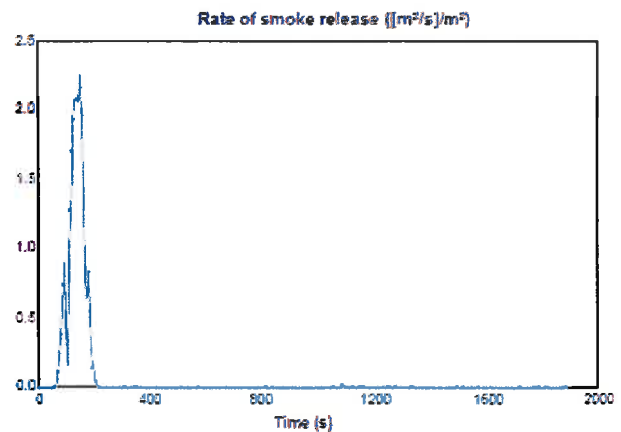
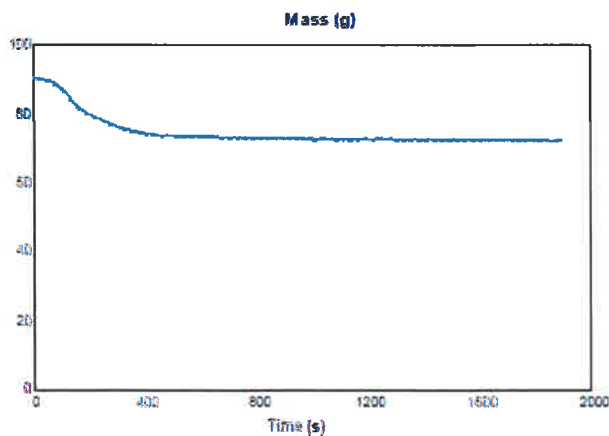
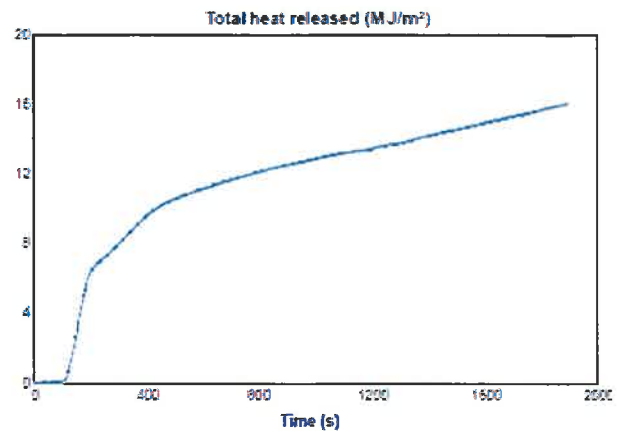
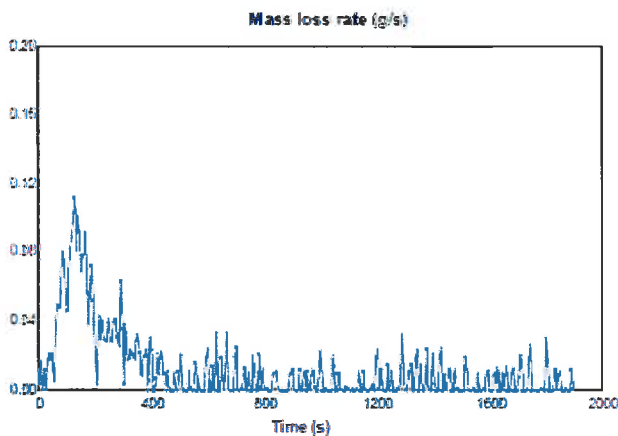
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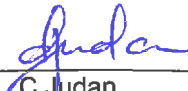
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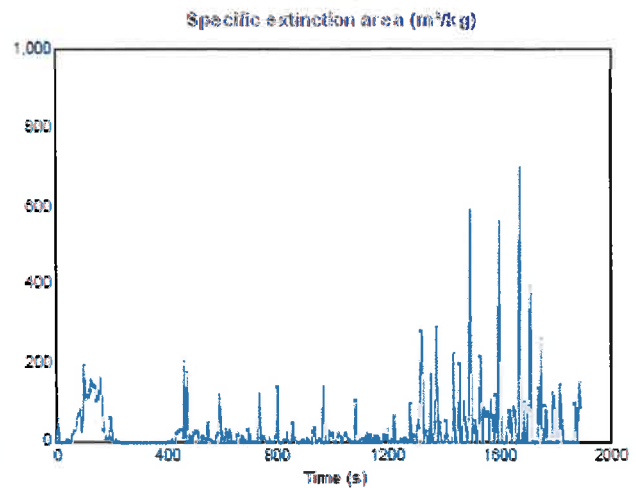
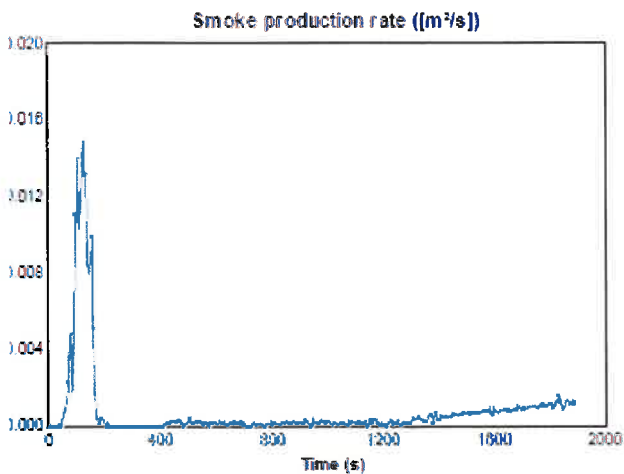
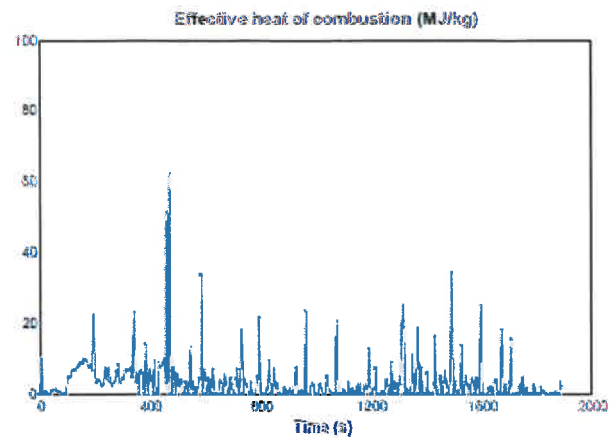
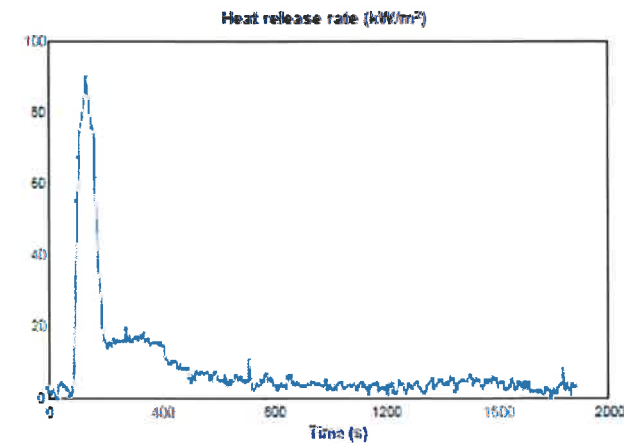
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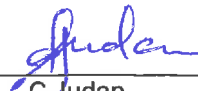
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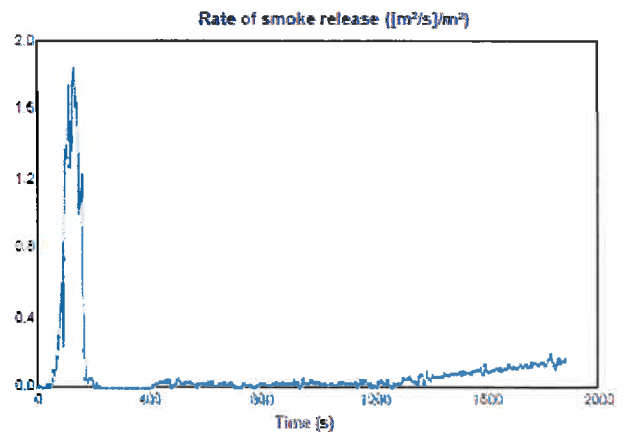
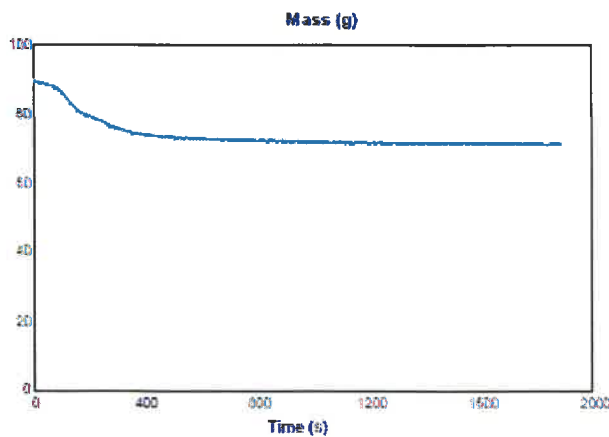
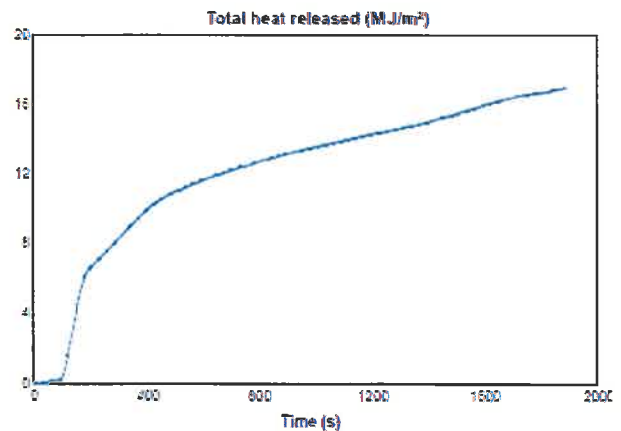
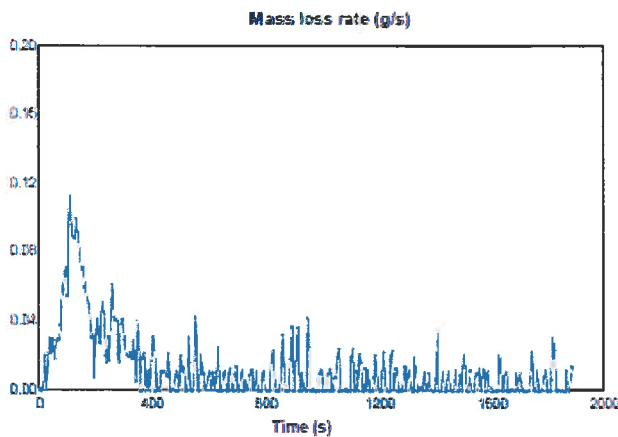
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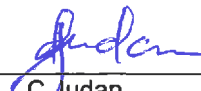
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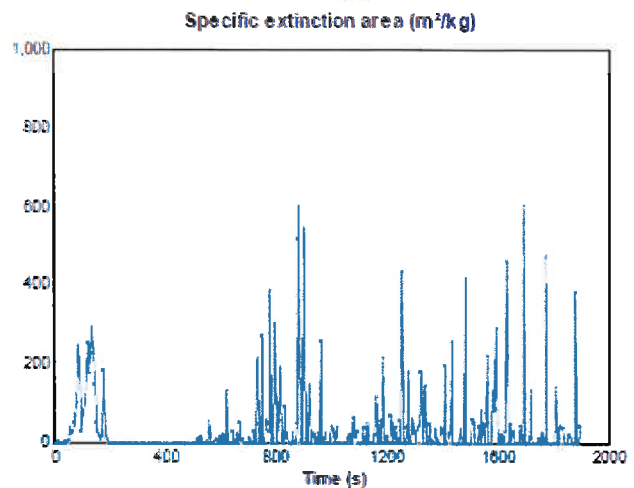
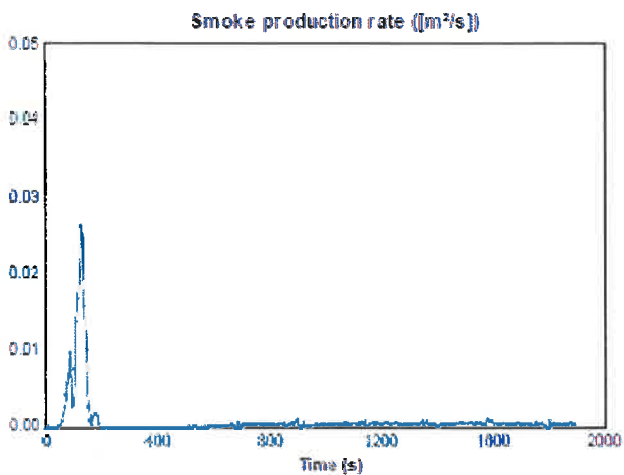
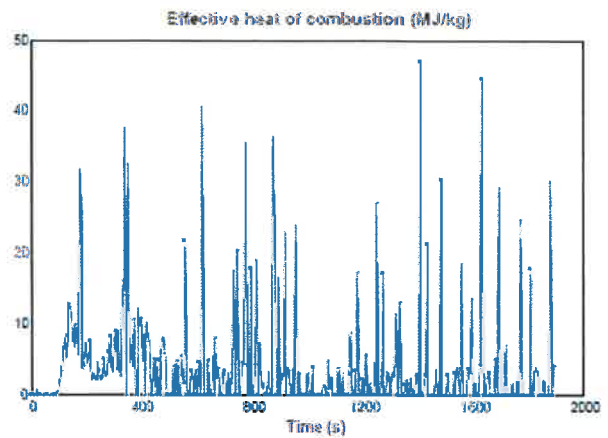
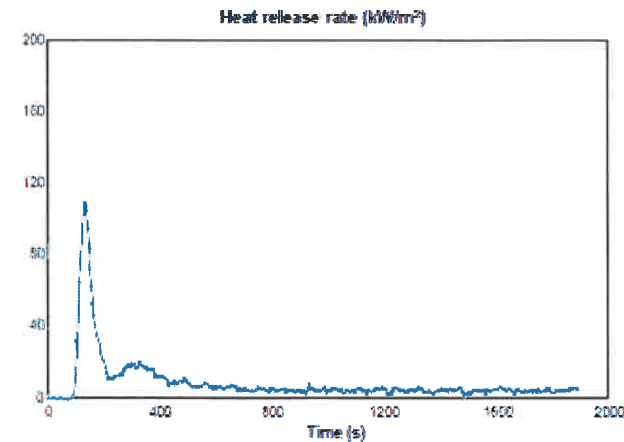
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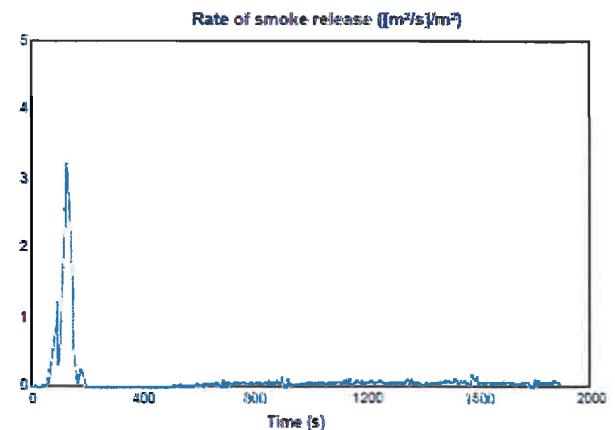
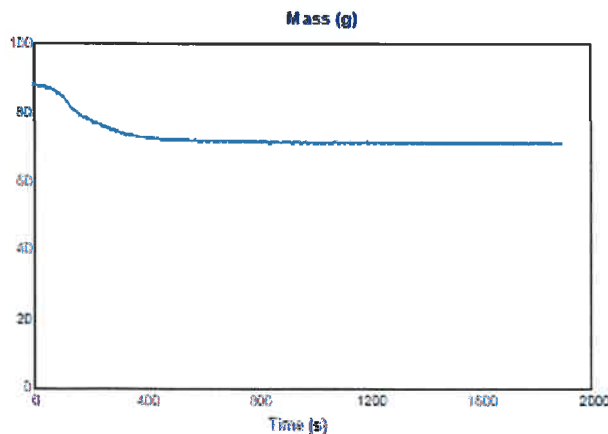
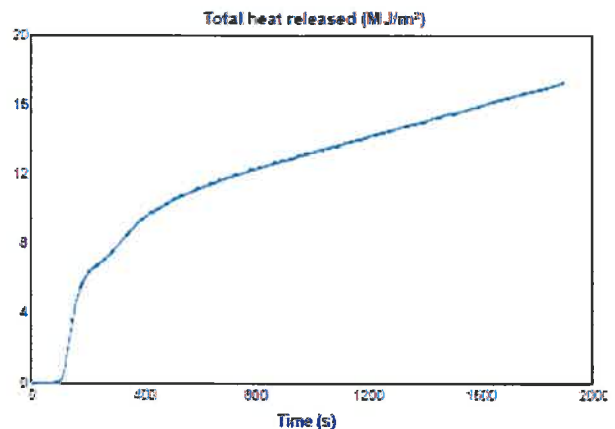
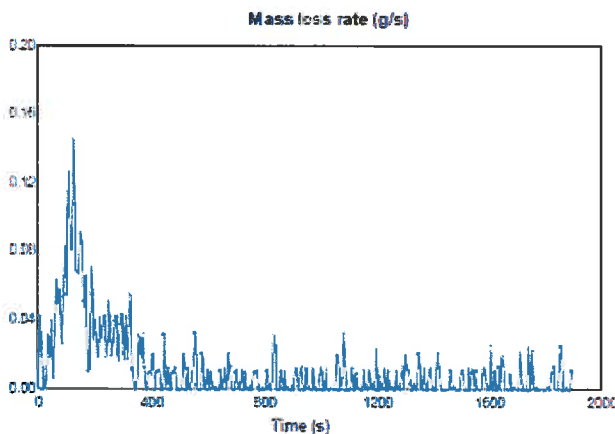
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