



No. 1327119.2A

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 10.6.20

SAMPLE DESCRIPTION:
Fabric Name – Precinct
Nominal Composition – 75% Recycled Polyester 25% Polyester
Nominal Weight – 710gsm
Fabric Use – Upholstery & Panel

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 20-002922).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate	7.9	7.5	9.5	8.3 kW/m ²
Average Specific Extinction Area	110.4	130.9	106.2	115.8 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			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	74	83	84	80 sec.
Test Duration	1874	1883	1884	1880 sec.
Peak Heat Release After Ignition	163.7	170.8	169.8	168.1 kW/m ²
Average Heat at 180 s	55.9	54.8	55.6	55.4 kW/m ²
Average Heat at 300 s	39.8	39.1	42.7	40.6 kW/m ²
Total Heat Released	14.4	13.8	17.0	15.1 MJ/m ²
Ave. Effective Heat of Combustion	7.4	7.2	9.0	7.8 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	87.5	87.6	87.7	87.6 g
Mass at Sustained Flaming	86.4	86.1	86.0	86.2 g
Mass Remaining	71.3	72.3	72.1	71.9 g
Mass Loss	2000.7	1886.3	1926.5	1937.8 g/m ²
Average Rate of Mass Loss	1.1	1.0	1.1	1.1 g/m ² .s

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L A Greer
Signatory


C Judan
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26/06/2020

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

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T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



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Total Smoke Production (non-flaming phase)	7.9	15.6	22.2	15.2 m ² /m ²
Total Smoke Production (flaming phase)	244.7	251.0	214.0	236.6 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	252.6	266.6	236.2	251.8 m ² /m ²
Specimen Surface Area	0.00810	0.00810	0.00810	- m ²
C-Factor (Calibration Constant)	0.040735	0.040735	0.040735	-

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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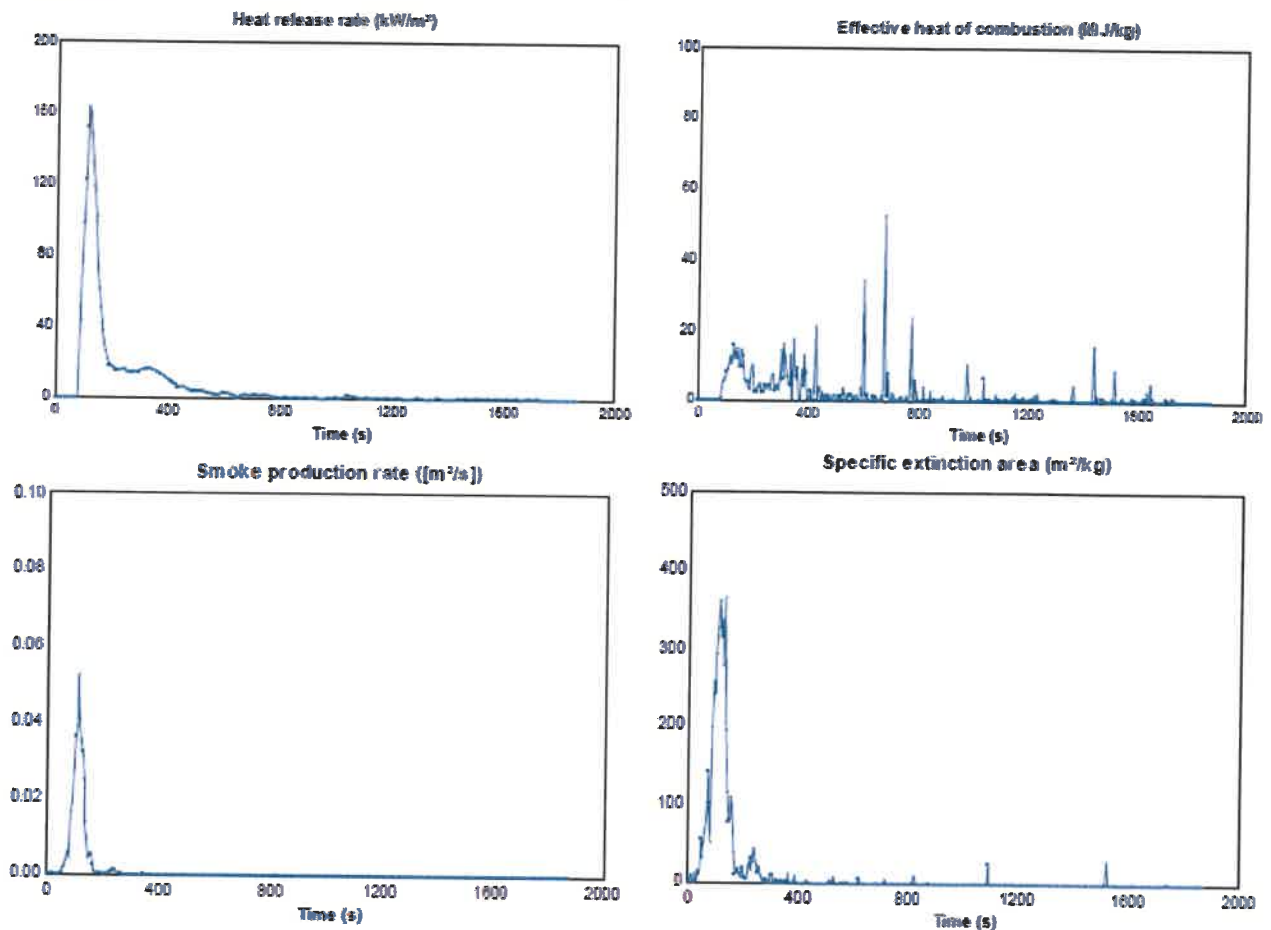
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Specimen : 1



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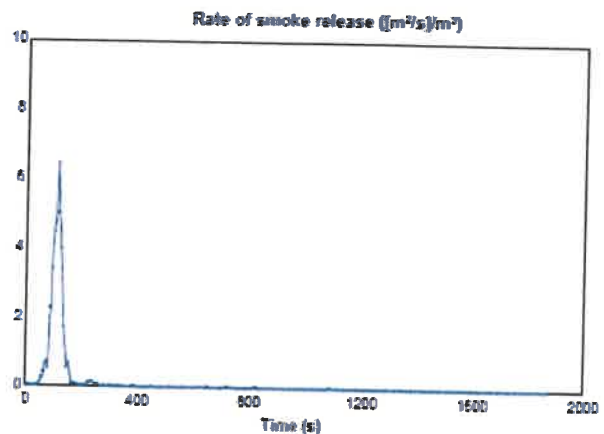
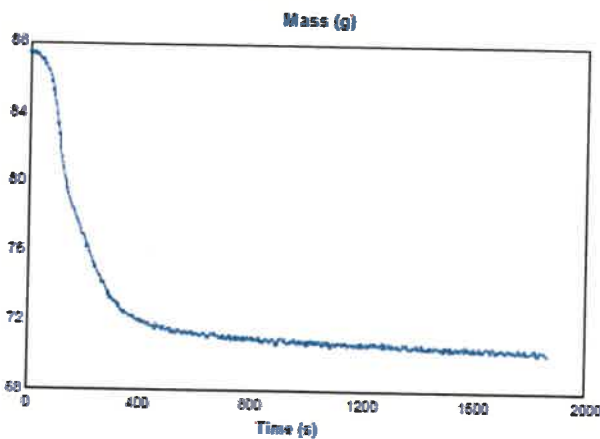
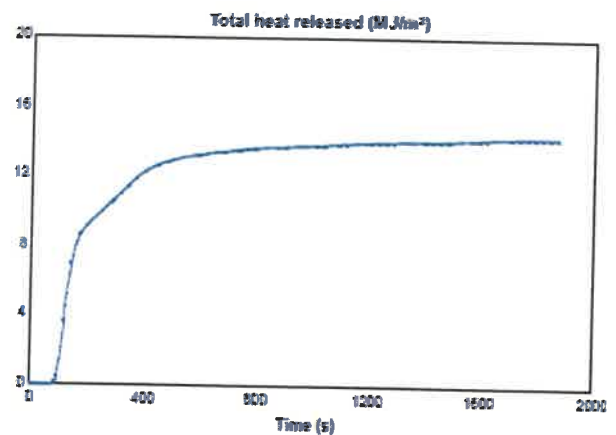
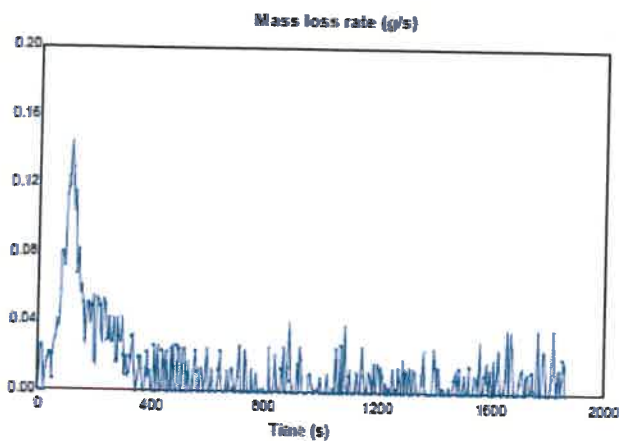
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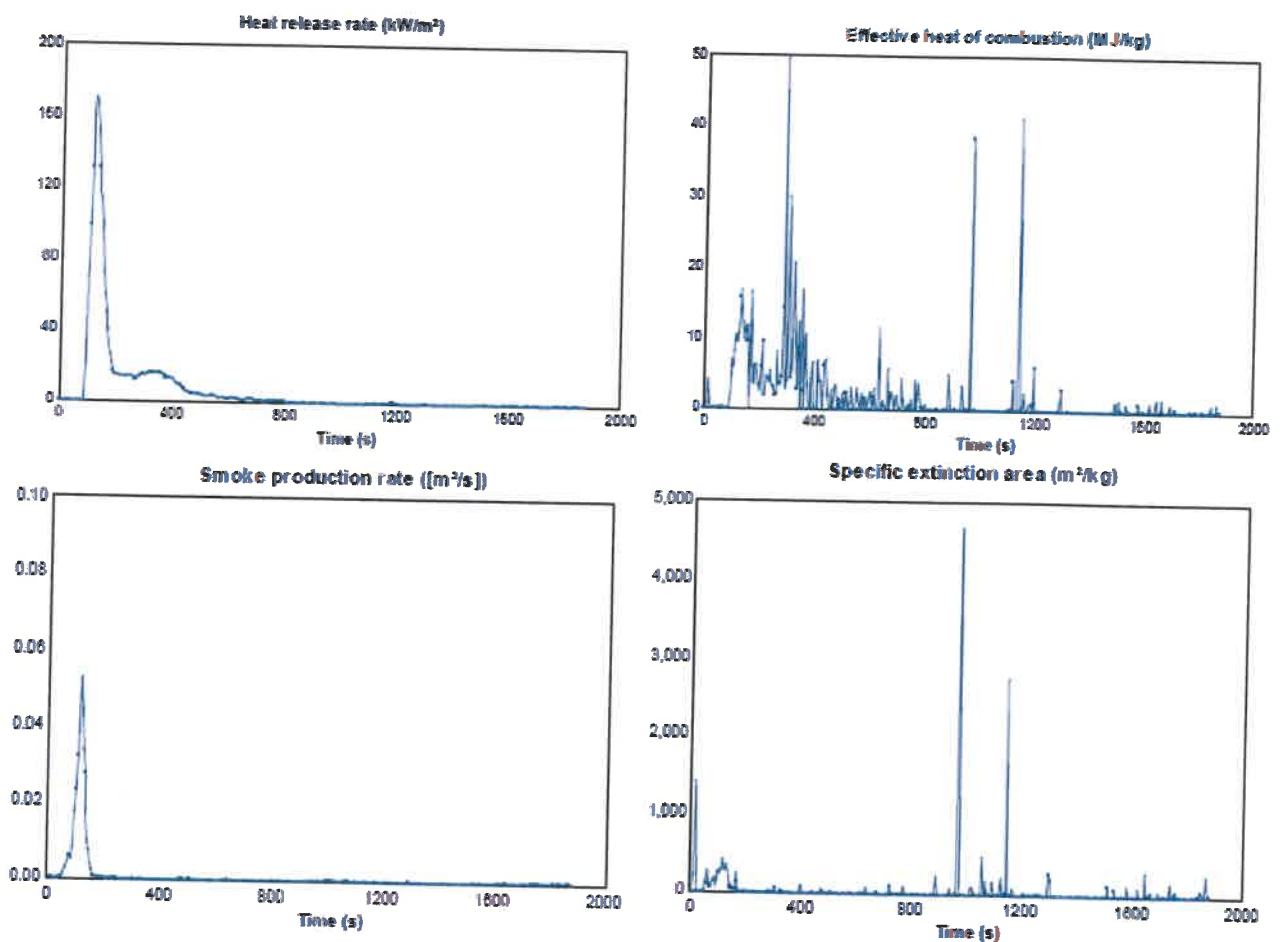
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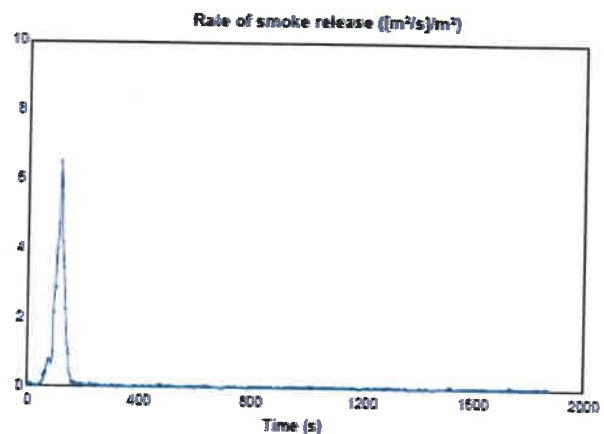
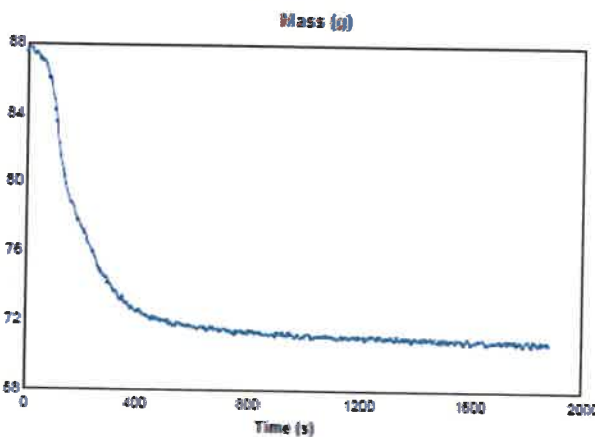
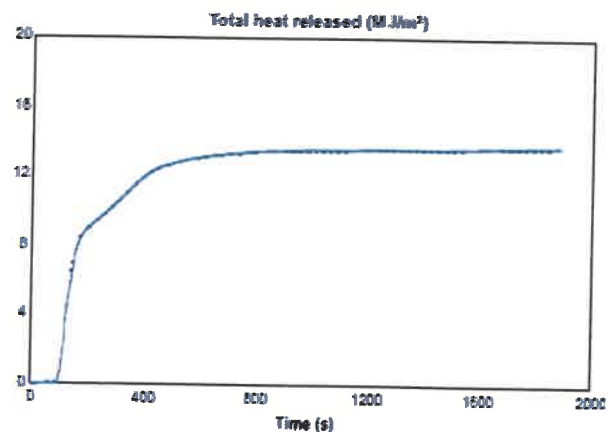
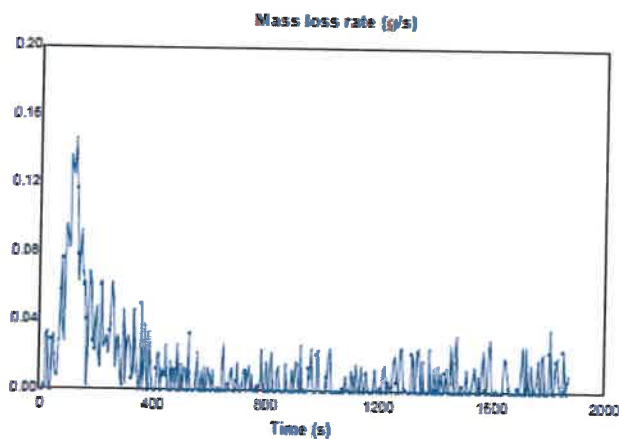
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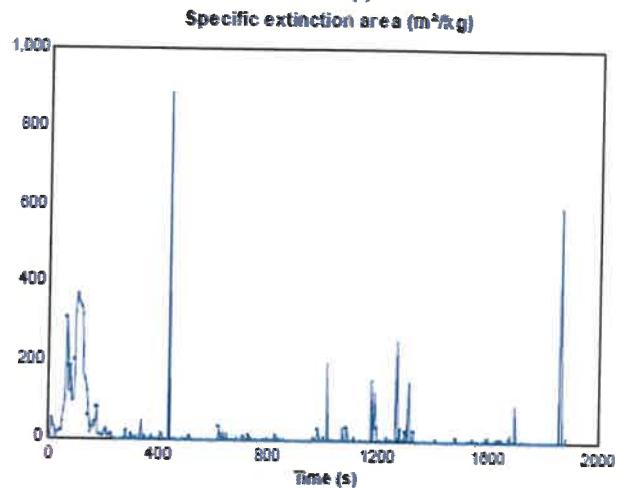
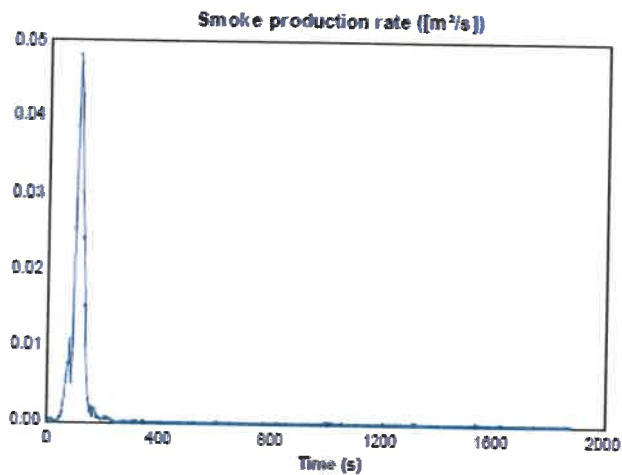
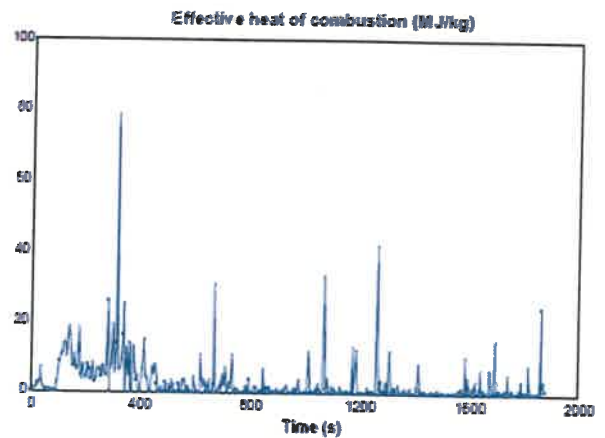
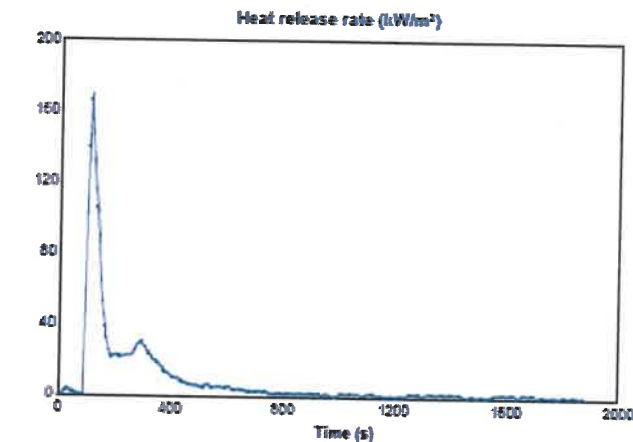
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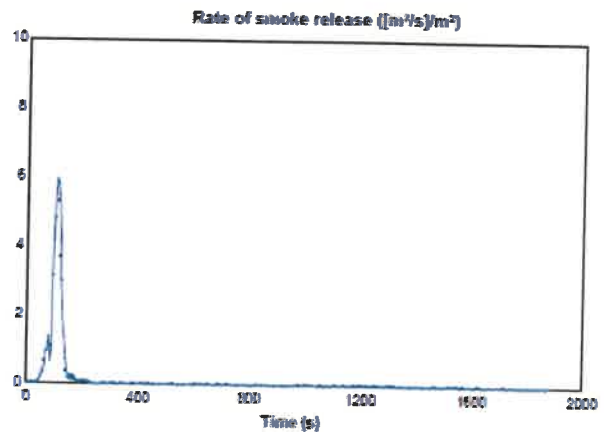
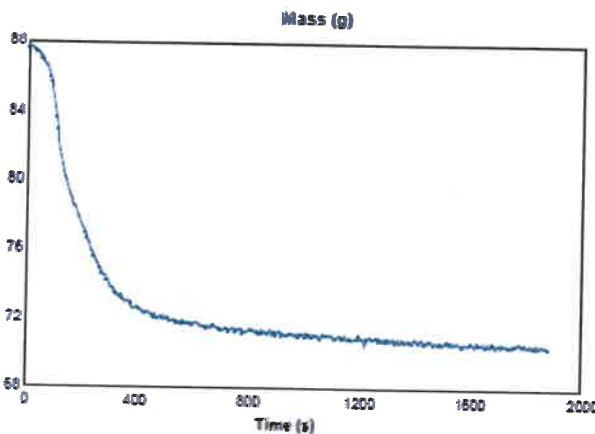
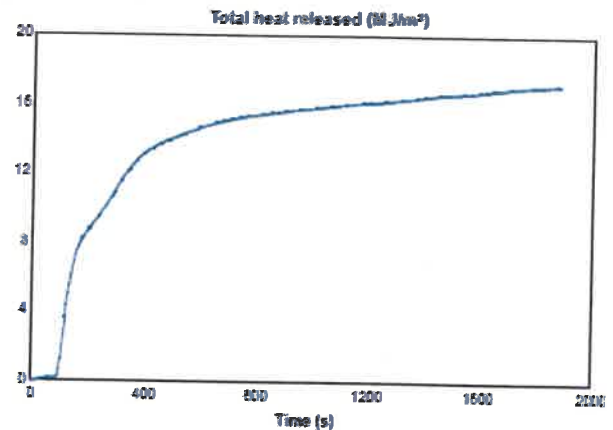
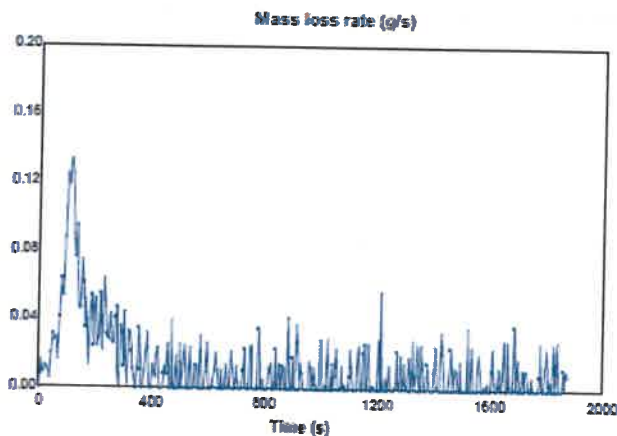
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