



**No. 1153632.3**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date: 28.9.16

Attn.:

SAMPLE DESCRIPTION:  
Woven fabric – Bond, 100% Polyester, 358gsm,  
End 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)**

	Specimens			Mean
	1	2	3	
Average Heat Release	3.5	2.3	2.7	2.8 kW/m <sup>2</sup>
Group Number Classification*	1S	1S	1S	
(* In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				
Average Specific Extinction Area*	108.2	57.7	115.7	93.9 m <sup>2</sup> /kg
(* According to ISO 5660.2-2002)				

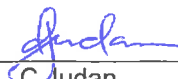
Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	93	37	63	64 sec.
Test Duration	1893	1837	1863	1864 sec.

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Signatory

  
C Judan  
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17/10/2016

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	Specimens			Mean
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Peak Heat Release After Ignition	52.8	83.5	72.8	69.7 kW/m <sup>2</sup>
Average Heat at 60 s	15.4	24.8	23.4	21.2 kW/m <sup>2</sup>
Average Heat at 180 s	8.9	8.3	9.5	8.9 kW/m <sup>2</sup>
Average Heat at 300 s	10.7	5.9	10.5	9.0 kW/m <sup>2</sup>
Total Heat Released	6.3	4.1	4.9	5.1 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	2.6	1.2	2.2	2.0 MJ/kg
Initial Thickness	6.5	6.5	6.5	6.5 mm
Initial Mass	92.7	98.1	88.3	93.0 g
Mass Remaining	70.0	68.4	69.2	69.2 g
Mass Percentage Pyrolysed	24.5	30.2	21.7	25.5%
Mass Loss	22.7	29.7	19.1	23.8 g
Average Rate of Mass Loss	1.4	1.9	1.2	1.5 g/m <sup>2</sup> .s

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.

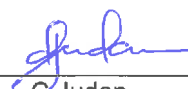
Note: All calculations are based on ignition + 30 minutes.

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

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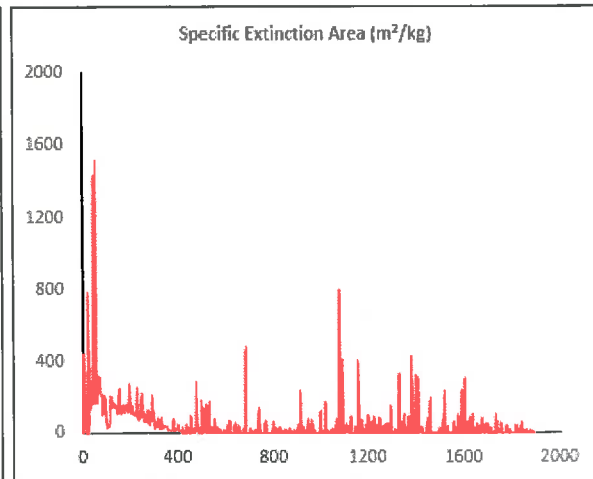
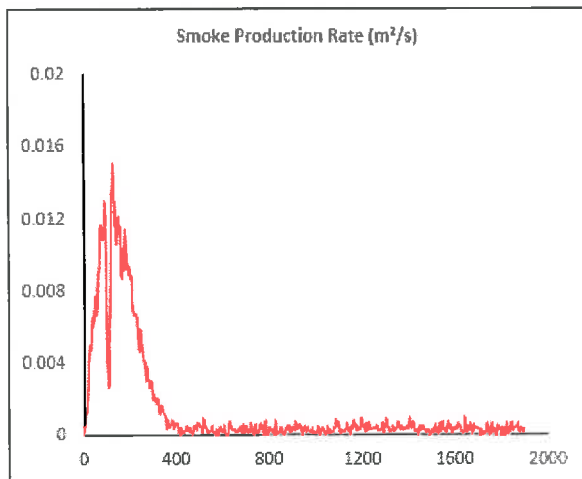
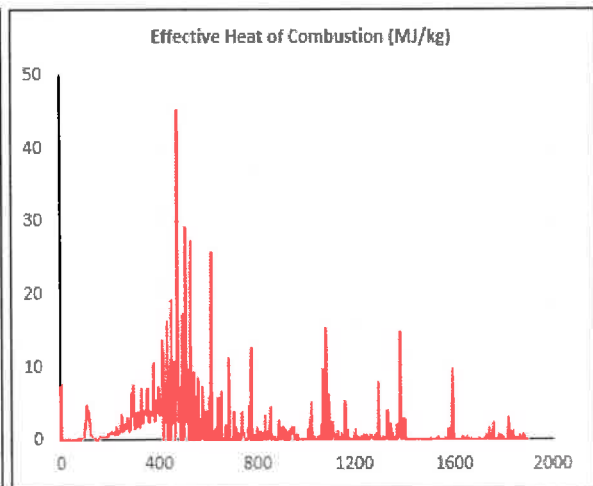
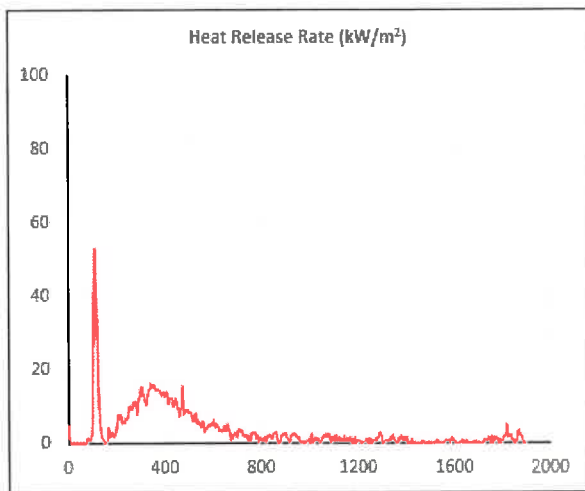
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### Specimen 1



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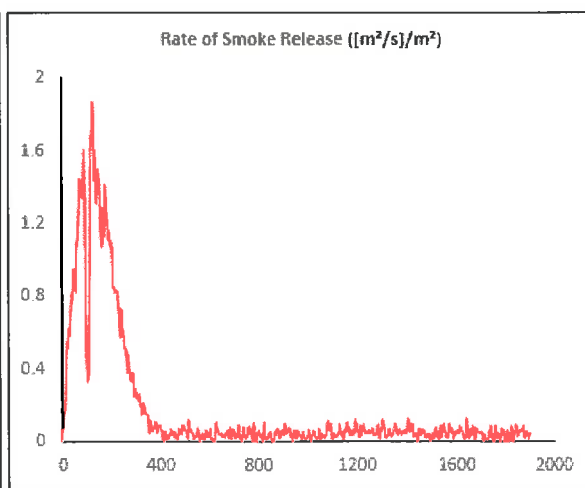
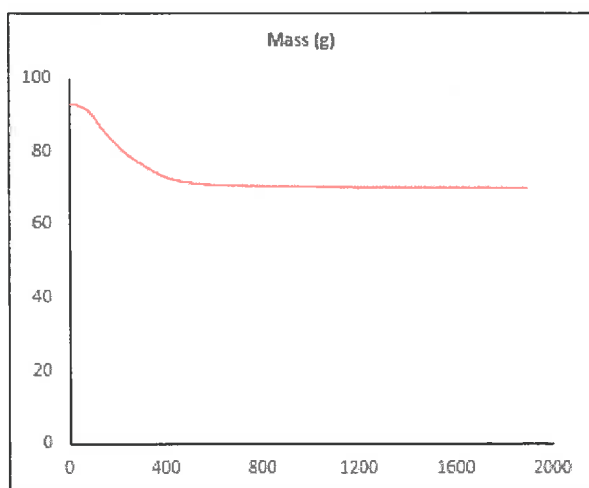
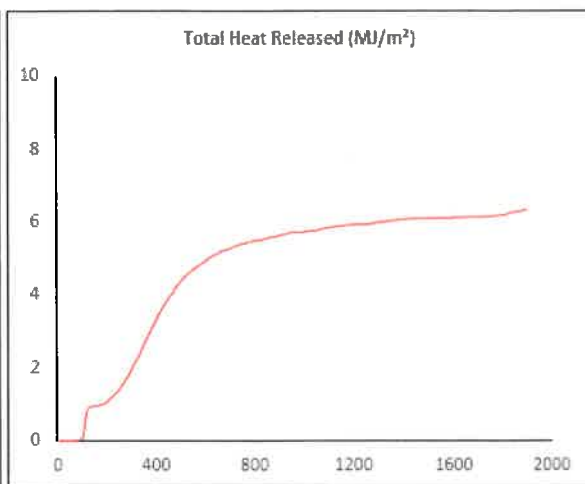
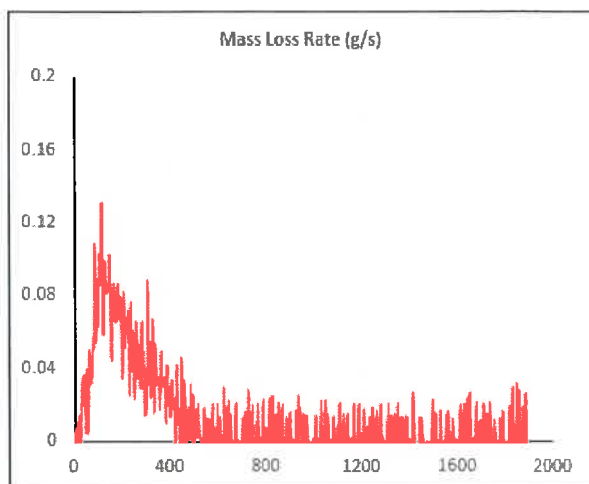
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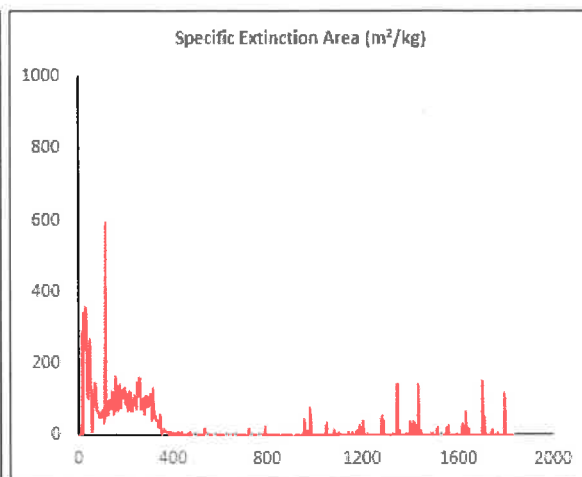
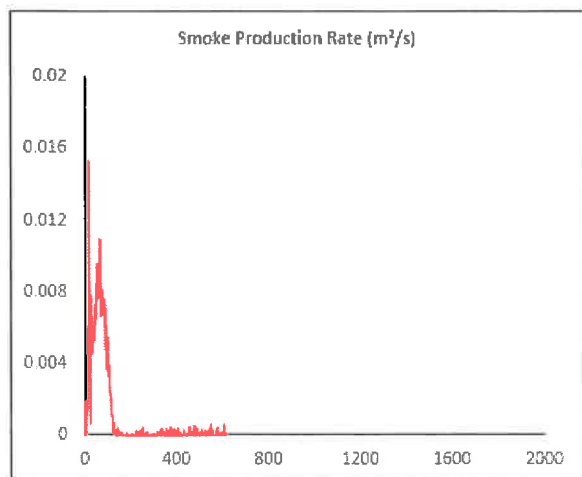
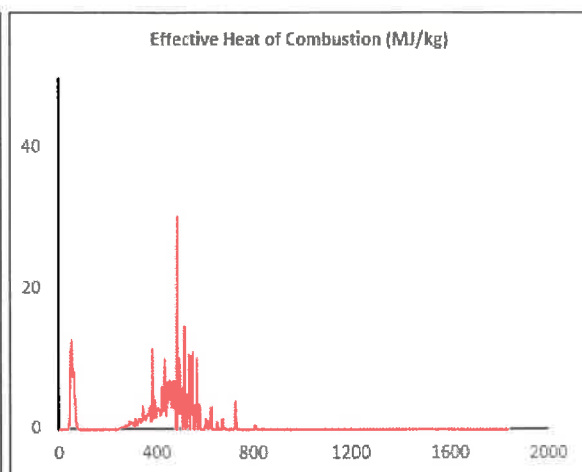
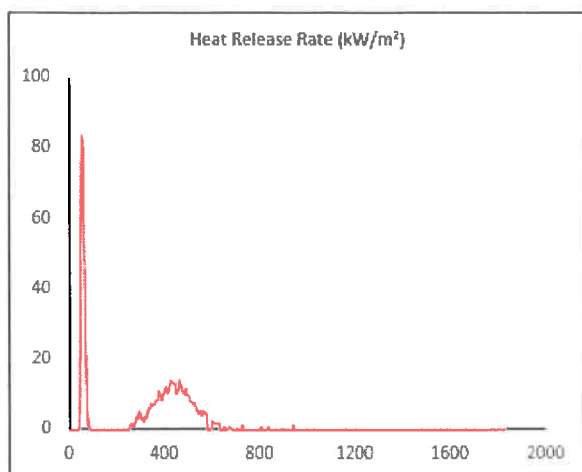
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## Specimen 2



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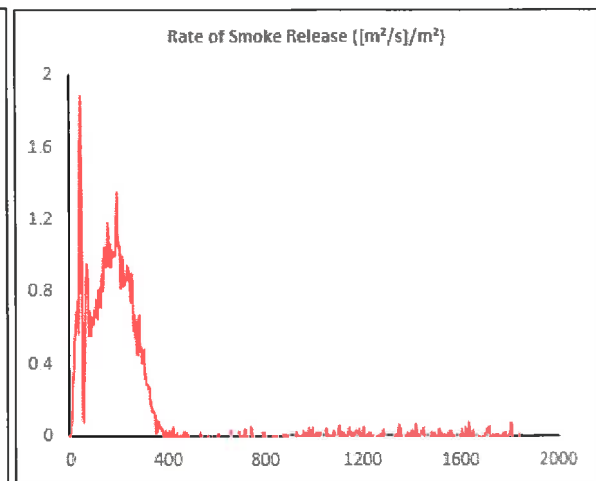
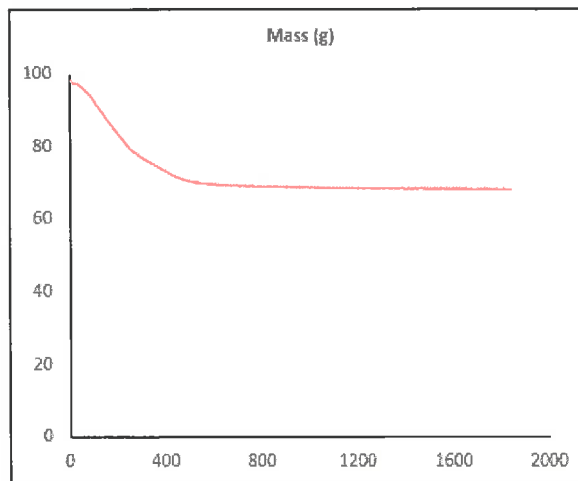
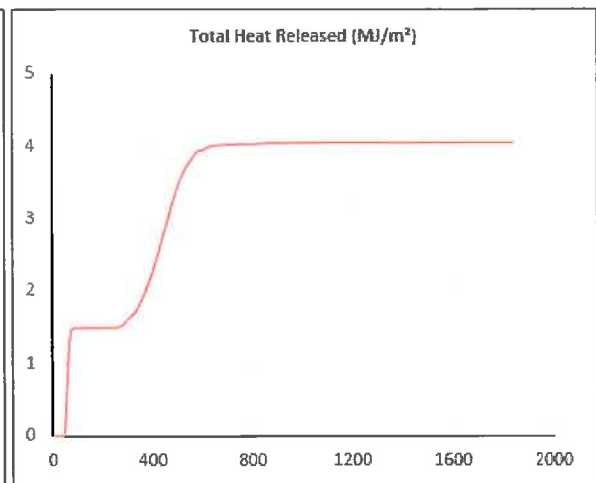
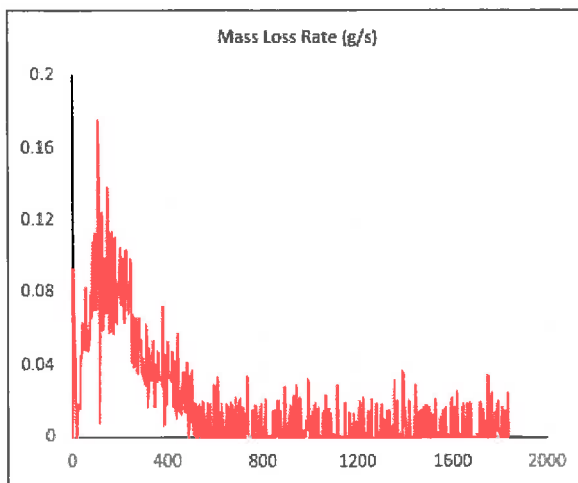
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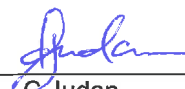
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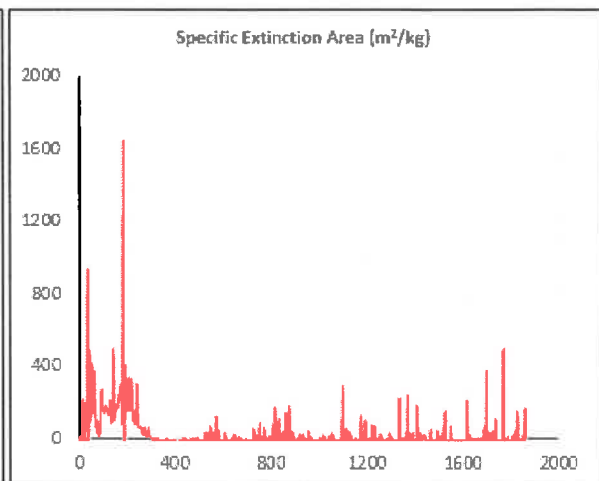
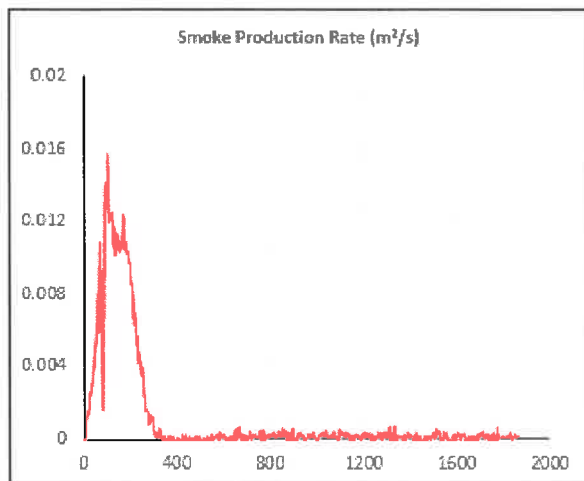
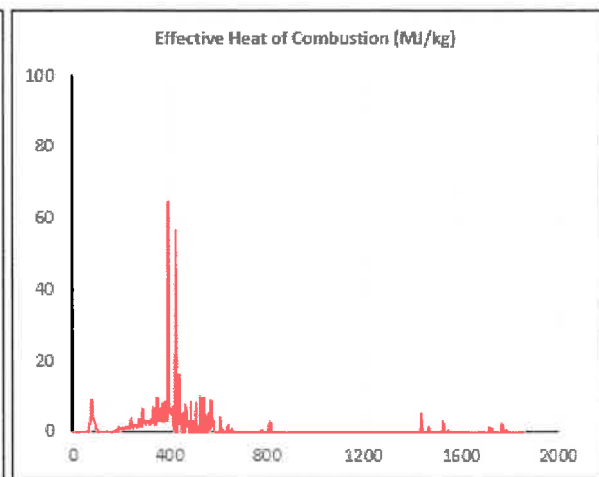
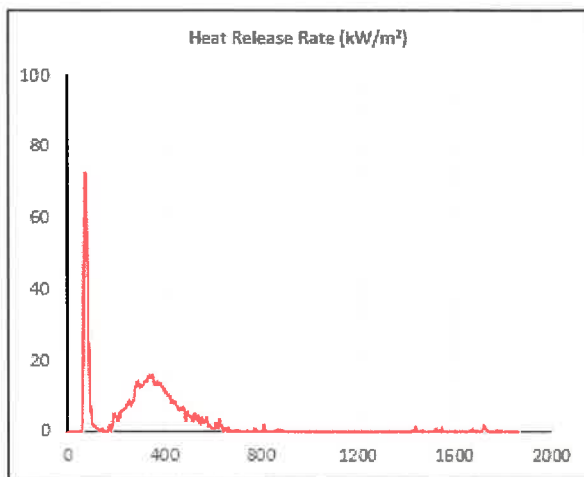
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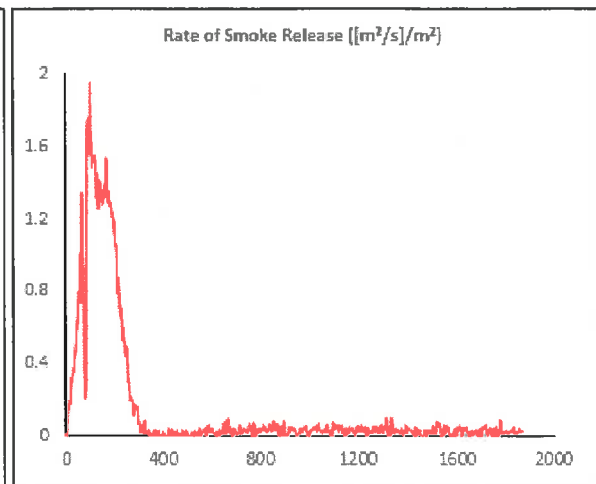
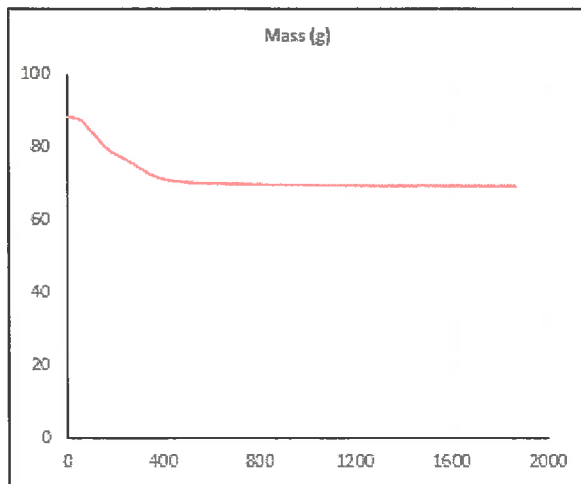
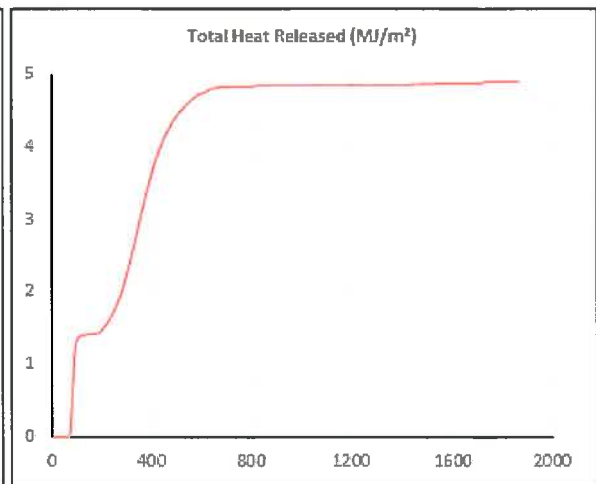
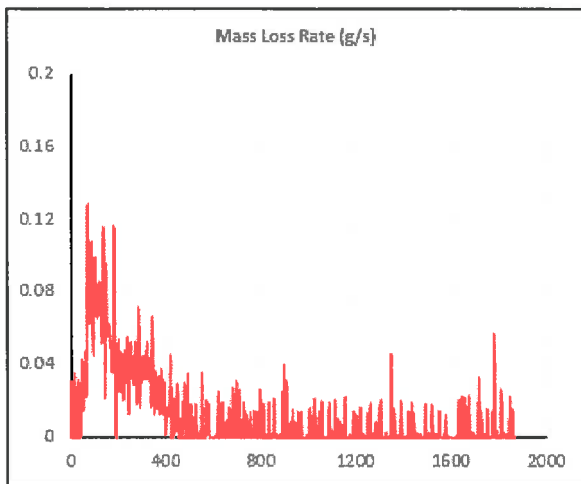
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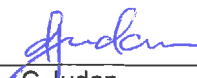
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