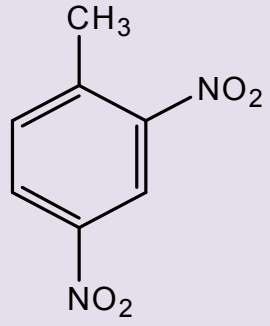
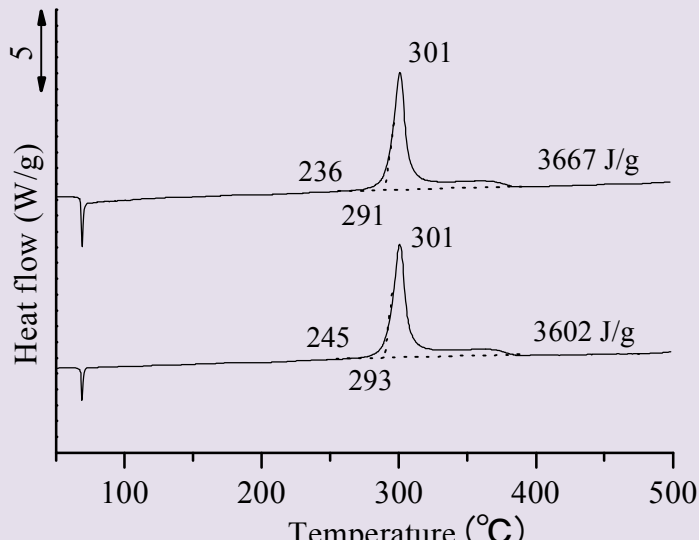
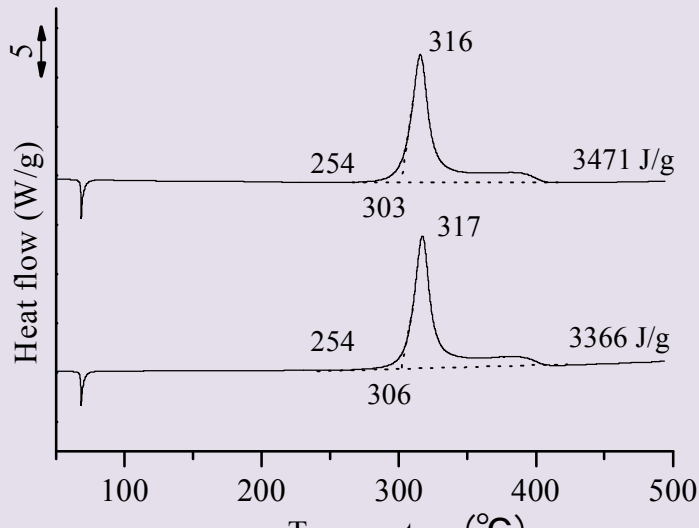
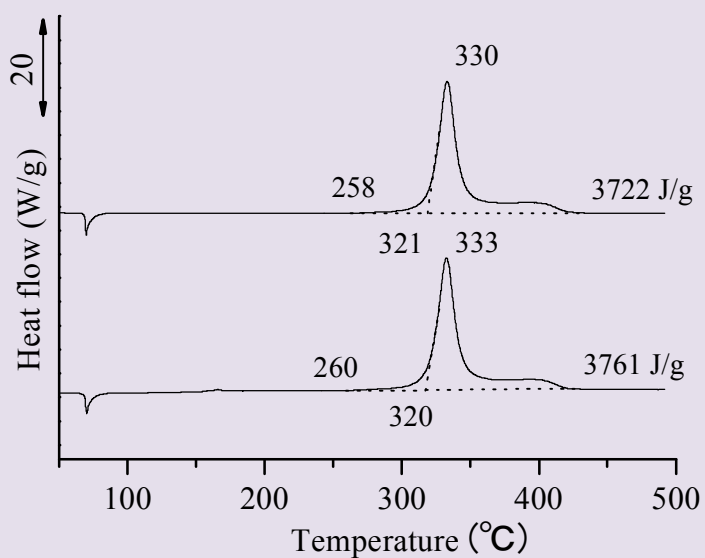


2,4-dinitrotoluene	$(\text{NO}_2)_2\text{C}_6\text{H}_3\text{CH}_3$ DNT
	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: TGI (> 99%)
a) 2 K/min <span style="float: right;">TGI: 東京化成工業株式会社</span>	
	<Average> $T_a$ : 241 °C $T_o$ : 292 °C $T_{top}$ : 301 °C $Q_{DSC}$ : 3635 J/g
b) 5 K/min	
	<Average> $T_a$ : 254 °C $T_o$ : 305 °C $T_{top}$ : 317 °C $Q_{DSC}$ : 3419 J/g

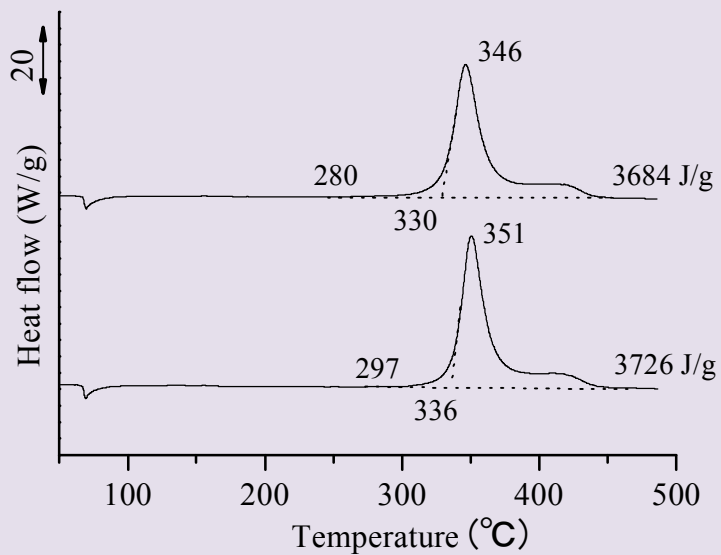
c) 10 K/min



<Average>

$T_a$  : 259 °C  
 $T_o$  : 321 °C  
 $T_{top}$  : 332 °C  
 $Q_{DSC}$  : 3742 J/g

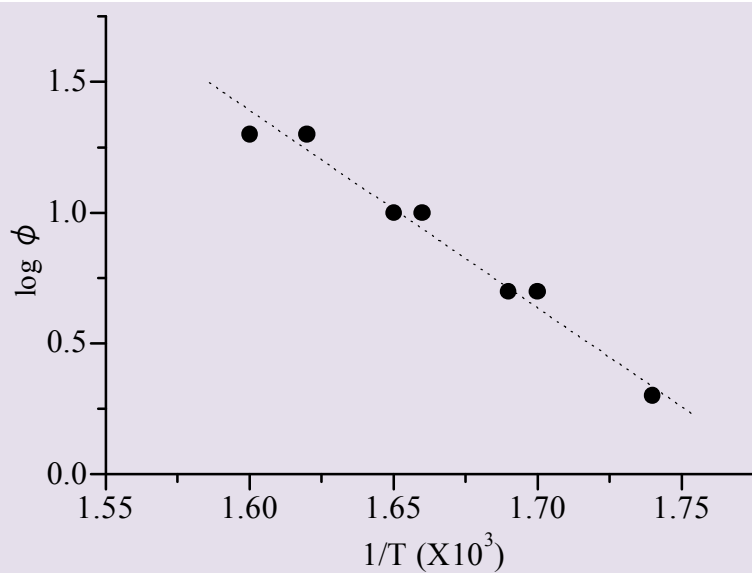
d) 20 K/min



<Average>

$T_a$  : 289 °C  
 $T_o$  : 333 °C  
 $T_{top}$  : 349 °C  
 $Q_{DSC}$  : 3705 J/g

## ASTM PLOT



Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ ( $^{\circ}\text{C}$ )	$T_{\text{m}}$ (K)	$1/T_{\text{m}} \cdot 10^3$	$\log \phi$
2	301	574	1.74	0.301
	301	574	1.74	0.301
5	316	589	1.70	0.699
	317	590	1.69	0.699
10	330	603	1.66	1.00
	333	606	1.65	1.00
20	346	619	1.62	1.30
	351	624	1.60	1.30