

TG-MS Request Form for External User

Instrument Name: TGMS-ThemoMass Photo (Rigaku)

Analysis Temperature Range: Ambient to 1100°C

Mass Range: 2 - 410 amu (Resolution: 1 amu)

Instructions:

1. **Sample Form:** Powder (~25 mg).
 2. **Temperature Range & Heating Rate:** The analysis cannot be carried out if these parameters are not specified.
 3. **Prohibited Samples:** Explosive, poisonous samples, or those releasing toxic/obnoxious gases/fumes upon heating cannot be analysed.
 4. **Materials:** The sample holders are made of Ceramic.
 5. **Decomposition Products:** You must specify the decomposition products associated with the heating cycle along with mass number. Any functional groups that may explode or foam are strictly not allowed (e.g., Azide, Perchlorate, poly-nitro, nitrogen-rich compounds).
 6. **Repeat Analysis:** A new form must be filled out for each repeat analysis, and the sample will be analysed as per the queue.
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Personal Information

1. **Type of Industry:** Academic / Industrial / National Lab
2. **Type of Analysis:** TG-DTA/TG-MS
3. **Name of the User:** _____
4. **User Email ID:** _____
5. **Registration No:** _____
6. **Mobile Number:** _____
7. **Department / Institution name:** _____
8. **GST Number:** _____
9. **Number of Samples (Not more than 3 samples):** _____
10. **Sample Code:**

11. For TG-MS please specify decomposition Product and its expected mass number for each sample

12. Material Details (Elements/Functional Groups Present):

14. Heating Rate: 10 °C/min

15. Maximum Temperature (°C): _____

16. Measurement Atmosphere: Helium

17. Additional Information (If any):

Note: Final data will be shared in ASCII format to your email.