佐信科技有限公司
ProTrusTech Co.,Ltd.
台南總公司:701台南市東區東門路三段293號3樓之1
TEL:06-2892081 FAX:06-2890862
台北公司:242新北市新莊區新北大道3段5號4樓之6
TEL:02-85227470 FAX:02-81926945
E-mail:ptt@protrustech.com
http://www.ProTrusTech.com

Testing Report---ART

Sample : Museum Art **Model: MRI _ 532**

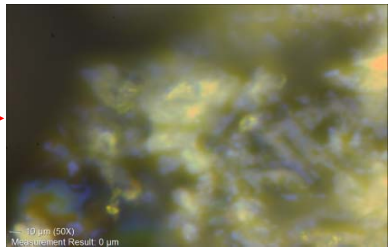
Laser Power: 13mW **Int. Time: 5.29sec** **Average: 1 times** **Obj. Lens: 50X**

Mapping Area: N/A **Resolution: N/A**

Sample description : Small Defect on art on the wall

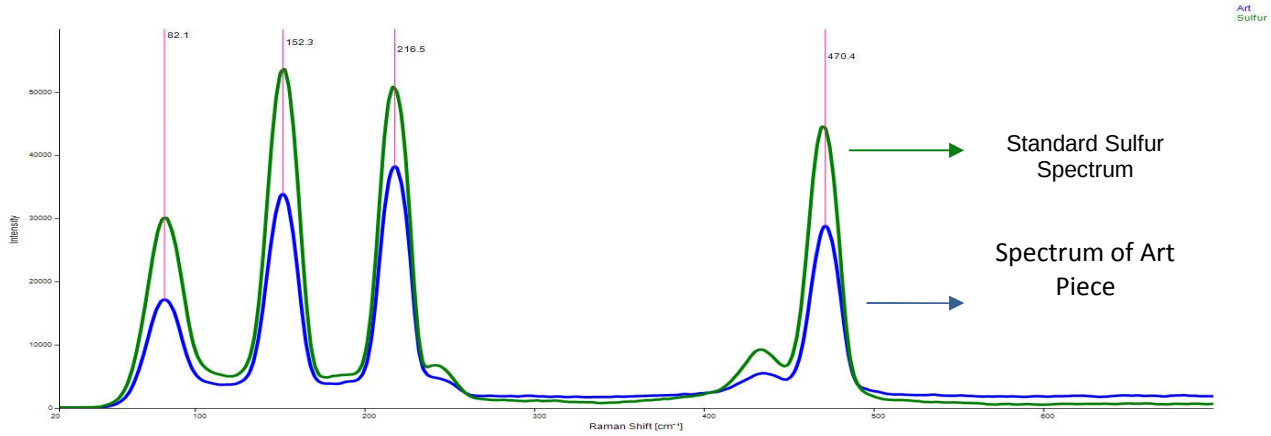
Art Piece Scanned

Art Piece Zoom in



Scanned section
(Microscope view)

Spectra:



Conclusion:

The defect is very small on art on the wall. we just can use horizontal mothed of Micro Raman of MRI to measure the defect raman spectra.

The picture below is from a private museum, They suspect that a contaminant from environment was deteriorating this artwork, due to a change in some parts of its surface, the segment was scanned by MRI in-situ, and the spectra obtained was compared to PTT's Laboratory database and we finding out the sample was polluted by Sulfur.

The result is consistent considering that this museum is located near to a natural hot spring ares which has high level of Sulfur.