



GEMMOLOGICAL REPORT

image is approximate

Date ..... 08-Apr-20  
 Report number ..... R-202028247

Weight ..... 19.308 carats  
 Measurements ..... 18.92 x 13.44 x 12.72 mm  
 Shape ..... Oval

Identification ..... Natural Copper Bearing Tourmaline  
 Colour ..... Neon Blue "Paraiba"

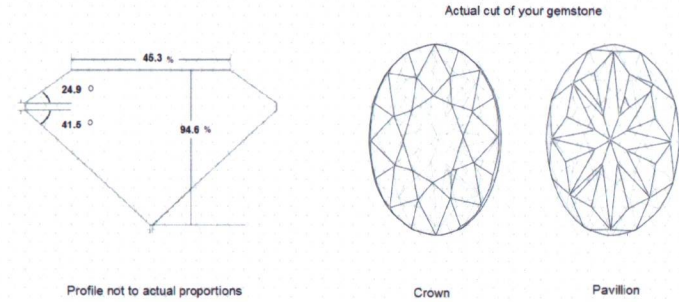
Comment : No Indication of any treatment

Origin determination: Nigeria

Dr. D. Schwarz

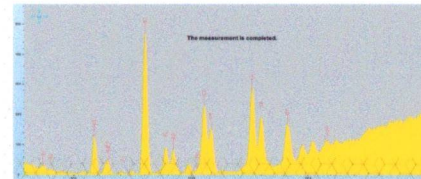


M.P.H. Curti, GG

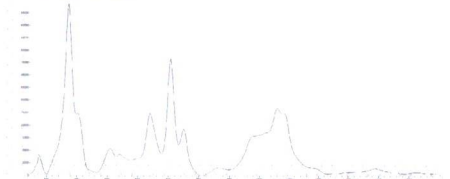


Length	18.92	Width	13.44	Height	12.72
Ratio	1.41	Crown Angle	24.9	Pavilion Angle	41.5

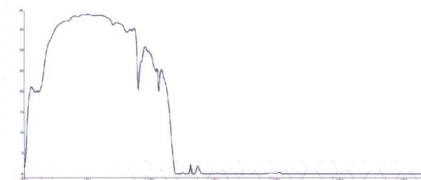
Energy-dispersive X-ray fluorescence spectroscopy



Raman Spectroscopy



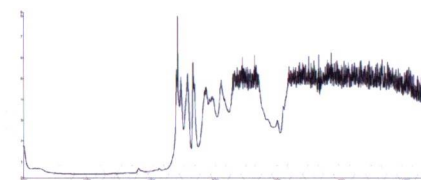
Fourier-transform infrared spectroscopy (T%)



Photoluminescence



Fourier-transform infrared spectroscopy (A)



Ultraviolet-visible spectroscopy



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