

Fe+2  
Mn  
Mg  
Ca  
VIII SUM  
SUM

842052  
Cataract

TABLE 1. Electron Microprobe analyses of garnets with structural formula.

	TL82-32	1217C	RB 82-19	TL82-95
SiO <sub>2</sub>	35.25 (.79)	37.16 (1.2)	35.55 (1.3)	34.66 (1.1)
TiO <sub>2</sub>	.43 (.31)	.21 (.21)	.03 (.06)	.69 (.27)
Al <sub>2</sub> O <sub>3</sub>	21.09 (.61)	21.28 (1.1)	21.85 (1.4)	19.80 (.77)
Cr <sub>2</sub> O <sub>3</sub>	.10 (.02)	.08 (.02)	.11 (.03)	.11 (.06)
FeO	7.47 (1.0)	6.90 (1.2)	5.16 (.87)	5.72 (1.2)
MnO	33.86 (1.5)	30.51 (.85)	32.68 (2.1)	35.88 (2.7)
MgO	.34 (.09)	.20 (.05)	.18 (.06)	.13 (.08)
CaO	.90 (.32)	3.78 (.64)	3.41 (.78)	2.59 (.68)
SUM	99.44	100.12	98.97	99.58

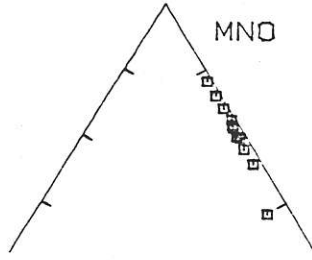
STRUCTURAL FORMULA CALCULATED TO 24 OXYGENS

Si	5.836	6.013	5.851	5.791
Al (TET)	.164	-.013	.149	.209
Al (OCT)	3.952	4.072	4.089	3.691
Ti	.054	.026	.004	.087
Cr	.013	.010	.014	.015
VI SUM	4.019	4.108	4.107	3.792
Fe+2	1.034	.934	.710	.799
Mn	4.749	4.182	4.556	5.078
Mg	.084	.048	.044	.032
Ca	.160	.655	.601	.464
VIII SUM	6.027	5.819	5.912	6.373
SUM	16.046	15.927	16.019	16.165

numbers in parenthesis are 1 standard deviation.

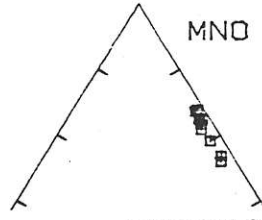
1217C

MOLE PERCENT



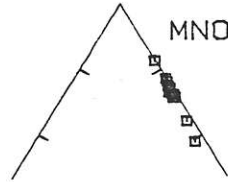
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MOLE PERCENT



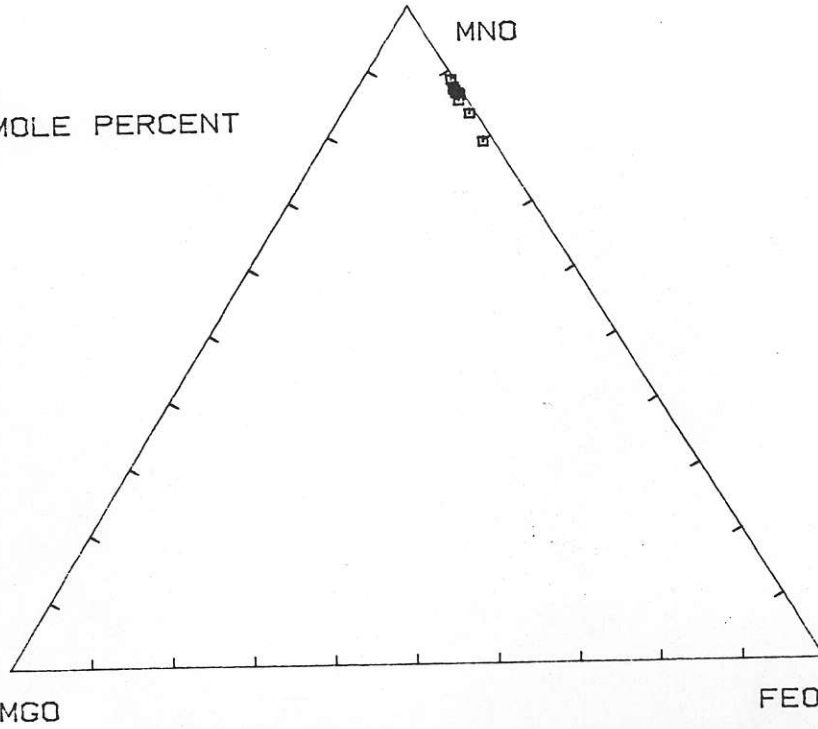
8295

MOLE PERCENT



RB82-19

MOLE PERCENT

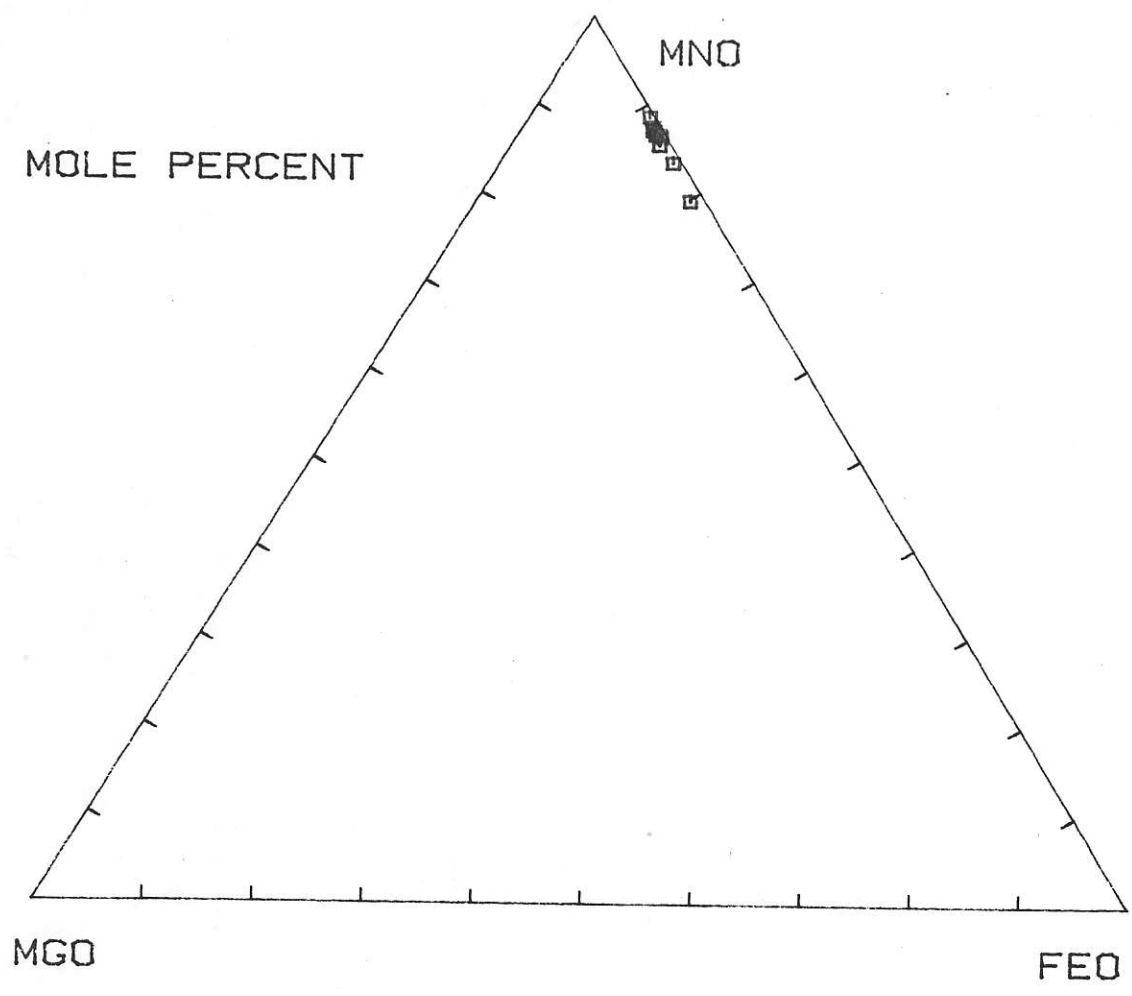


MGO

FEO

ap

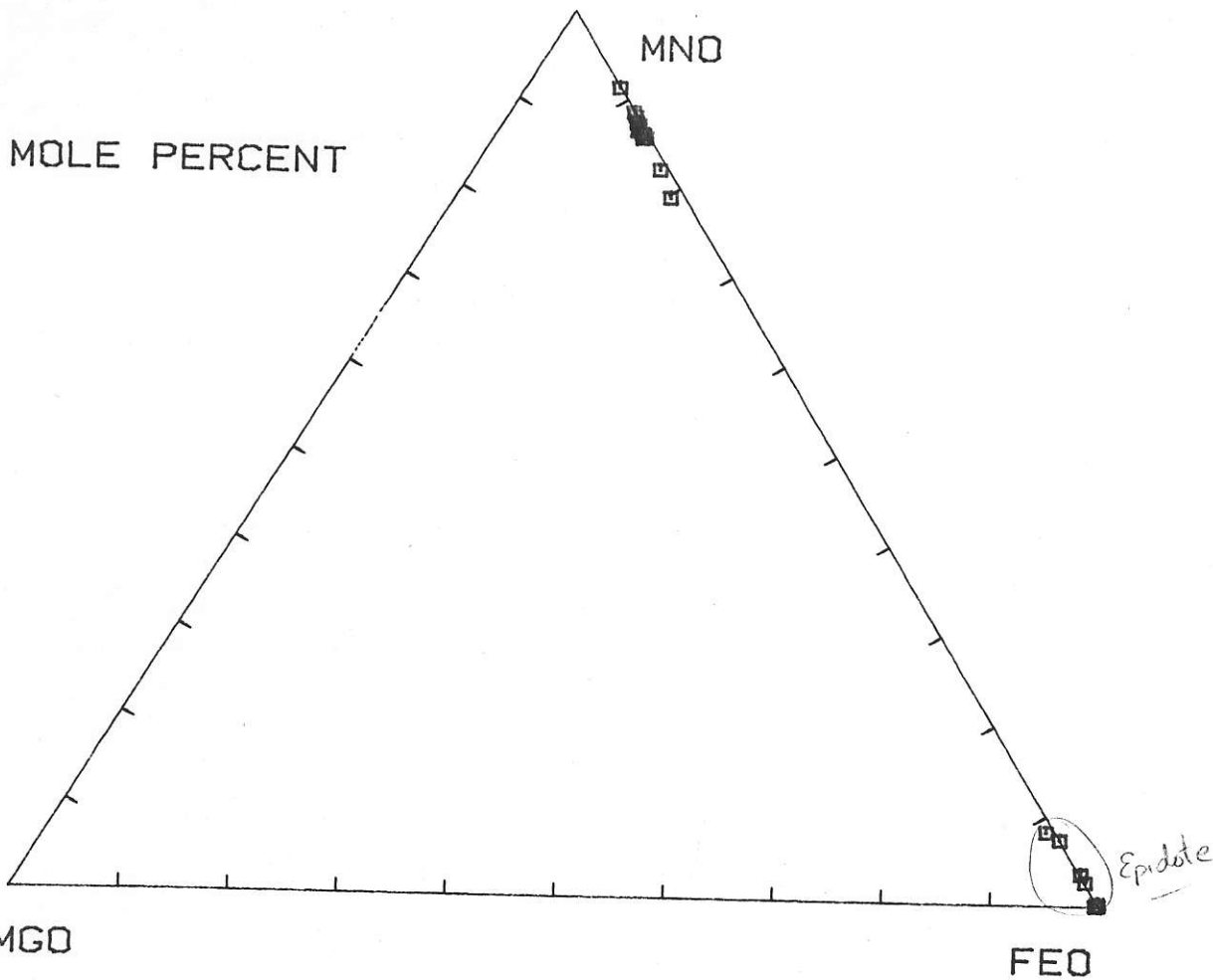
RB82-19



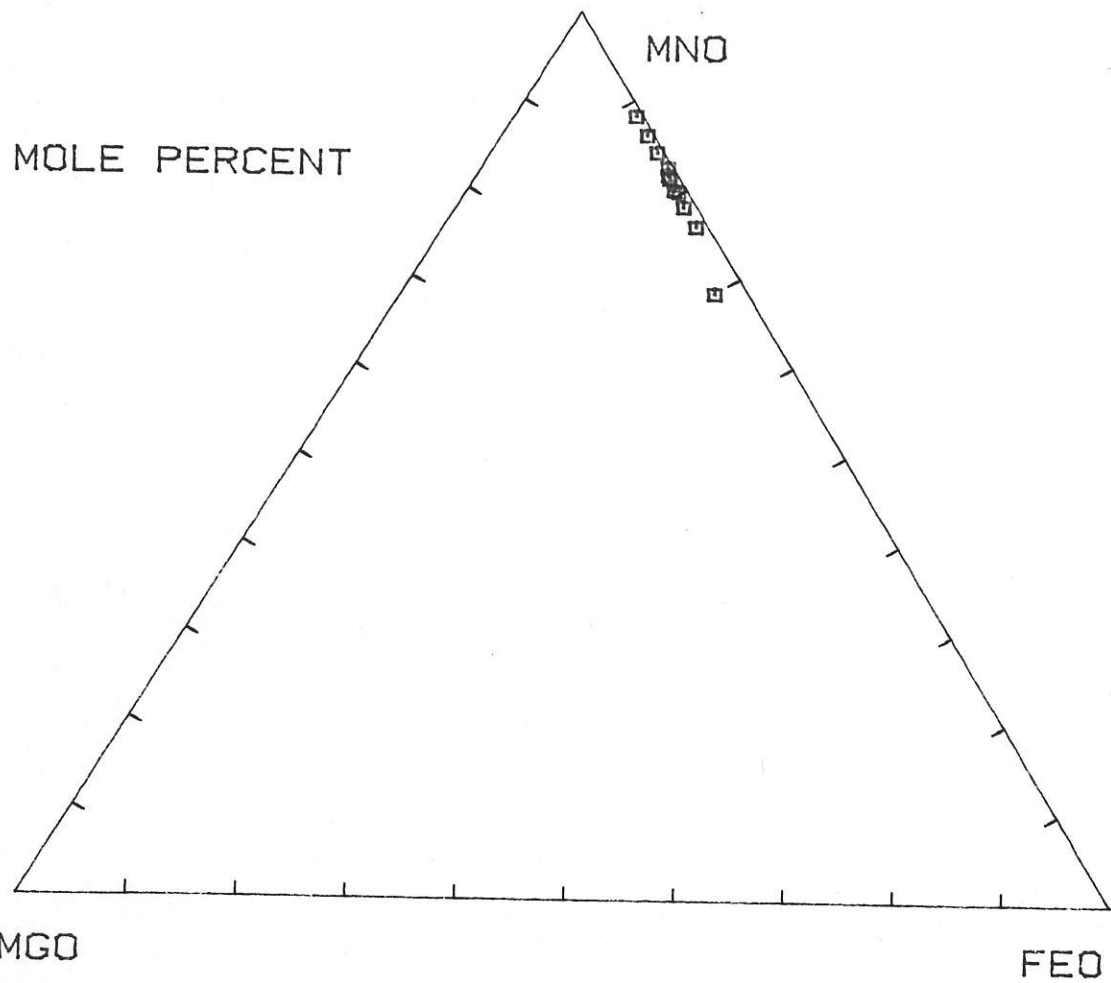
GP

TL 82-95

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1217C



TL 82-32

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