

## **Sample Results Summary Sheet**

**Please return this form to the Curator for each allocated Sample**

**Sample ID:** RA-QD04-0025

**PI:** Tomoki Nakamura

**Type and date of analysis performed:**

XRD                              Oct/10/2011~ Oct/13/2011

FE-SEM, FE-EPMA              Now/28/2011 ~ Now/30/2011

**Elements or phases identified:** (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

XRD : LPx, Me, Pl

FE-SEM : OI, LPx, Phos

FE-EPMA : Si, Ti, Al, Fe, Mn, Mg, Ca, Na, Cr, P

**Contaminant phases identified:** (Al, SUS, carbon particles, etc.)

N/A

**Sample handling:**

XRD

Attached to carbon fiber with resin.

FE-SEM, FE-EPMA

Exposed in atmosphere.

Polished by M cross

C-coated (20 nm)

**State of sample pre-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded (FE-SEM, FE-EPMA)

**State of sample post-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded, C-coated (FE-SEM, FE-EPMA)

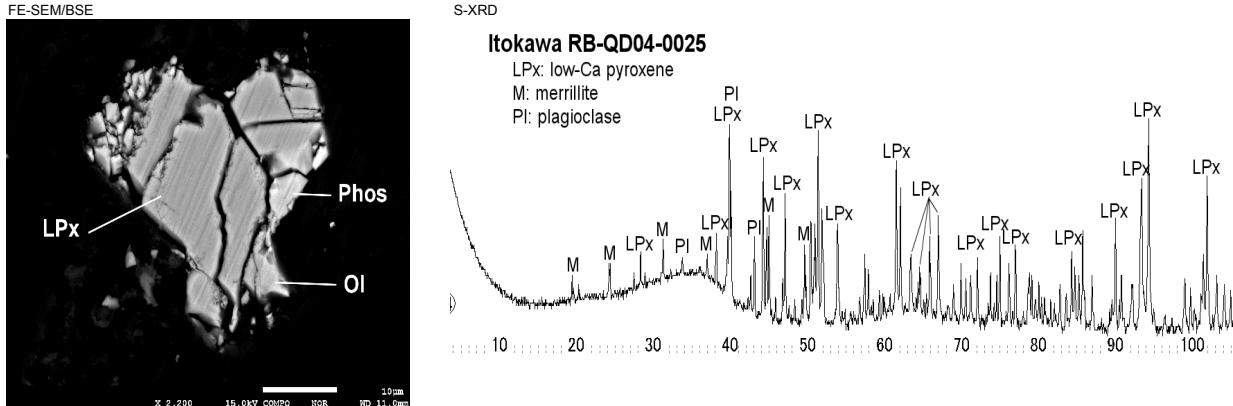
N<sub>2</sub> hold in sample holder.

**Analysis data Notes:** (summary of the attached analysis data and/or images)

See attached sheets.

## RB-QD04-0025

Analysis S-XRD (polish) FE-SEM FE-EPMA  
Present status Putted butt with some SIMS spots



### FE-EPMA

wt%	Olivine n=2	OI 1 sigma	LPx n=7	.Px 1 sigma	HPx n=0	tPx 1 sigma	Plagio n=0	Pl 1 sigma
SiO <sub>2</sub>	35.61	0.03	54.73	1.57				
TiO <sub>2</sub>	0.03	0.04	0.18	0.05				
Al <sub>2</sub> O <sub>3</sub>	0.02	0.01	0.10	0.08				
FeO	25.23	0.37	14.89	0.35				
MnO	0.49	0.03	0.47	0.04				
MgO	36.36	0.52	26.79	1.66				
CaO	0.00	0.00	0.83	0.35				
Na <sub>2</sub> O	0.01	0.01	0.03	0.07				
K <sub>2</sub> O	0.00	0.00	0.01	0.01				
Cr <sub>2</sub> O <sub>3</sub>	0.01	0.02	0.09	0.03				
NiO	0.00	0.00	0.01	0.02				
P <sub>2</sub> O <sub>5</sub>	0.01	0.01	0.22	0.58				
S <sub>2</sub> O <sub>3</sub>	0.01	0.02	0.02	0.03				
Total	97.77	0.21	98.37	0.87				
SUM								

### Comment

Olivine (Fa#)	28.02	0.58	
LPx(Fs#)		23.42	1.19
LPx(Wo#)		1.66	0.67
LPx(En#)		74.92	1.38
HPx(Fs#)			
HPx(Wo#)			
HPx(En#)			
Pl(O#)			
Pl(An#)			
Pl(Ab#)			