Table IV-12. Average compositions (mg/g) of bulk chondrules; and olivine, low-Ca pyroxene and mesostasis (glass) from chondrules of Allende (CV), Semarkona (LL3) and Qingzhen (EH3).

	Si	Ti	Al	Cr	Fe	Mn	Mg	Ca	Na	K
Allend										
chondrule	194	1.12	21.8	*4.3	*131	*1.47	206	19	4.7	0.39
olivine	193	0.32	0.53	1	37.4	0.8	*323	2.2		
pyroxene	*266	1.3	6.4	*5.5	23.6	1	221	8.2	0.2	
mesostasis	*214	*3.4	*101	2.8	39.3	0.9	79.6	*72.2	*34.7	*3.2
Semarkona										
chondrule	199	0.84	16.2	*4.5	*111	*3.9	218	17	6.7	0.8
olivine	191	<0.24	<0.21	3.7	60.3	2.9	*302	1.1		
pyroxene	*268	0.5	3	*5.2	42.5	2.5	201	4.4	(0.6)	
mesostasis	*278	*2.4	*105	0.9	25.3	2.4	16.7	*67.1	*24.8	*2.7
Qingzhen										
chondrule	243	*0.57	13.9	*2.4	*40	*2.0	217	*12.3	10.3	0.24
olivine	202	<0.24	<0.21	1.2	6.4	0.9	*333	1.6		
pyroxene	*277	0.3	1.4	*2.1	6.2	1	233	2.9		
mesostasis	*307	0.3	*78.9	0.8	13	0.4	28.5	*12.2	*60.6	*1.6

Asterisks represent the highest concentration value(s) among the bulk chondrule, olivine, pyroxene and mesostasis. Data sources: chondrules from Table IV-11; others are summarized by Rubin (1986).