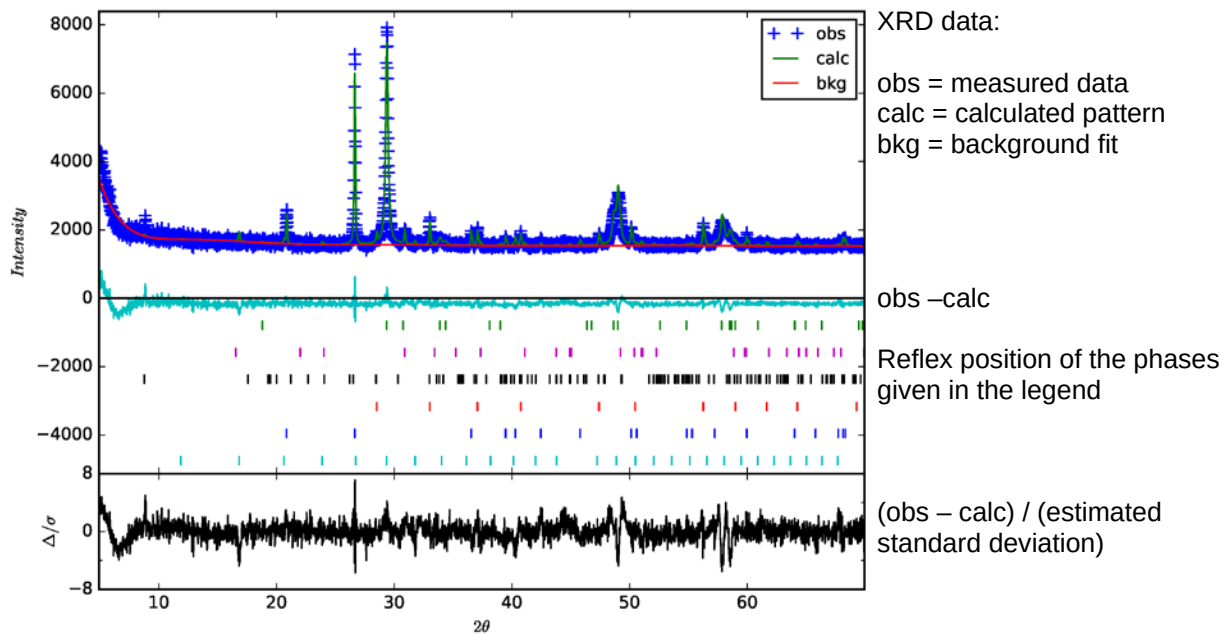


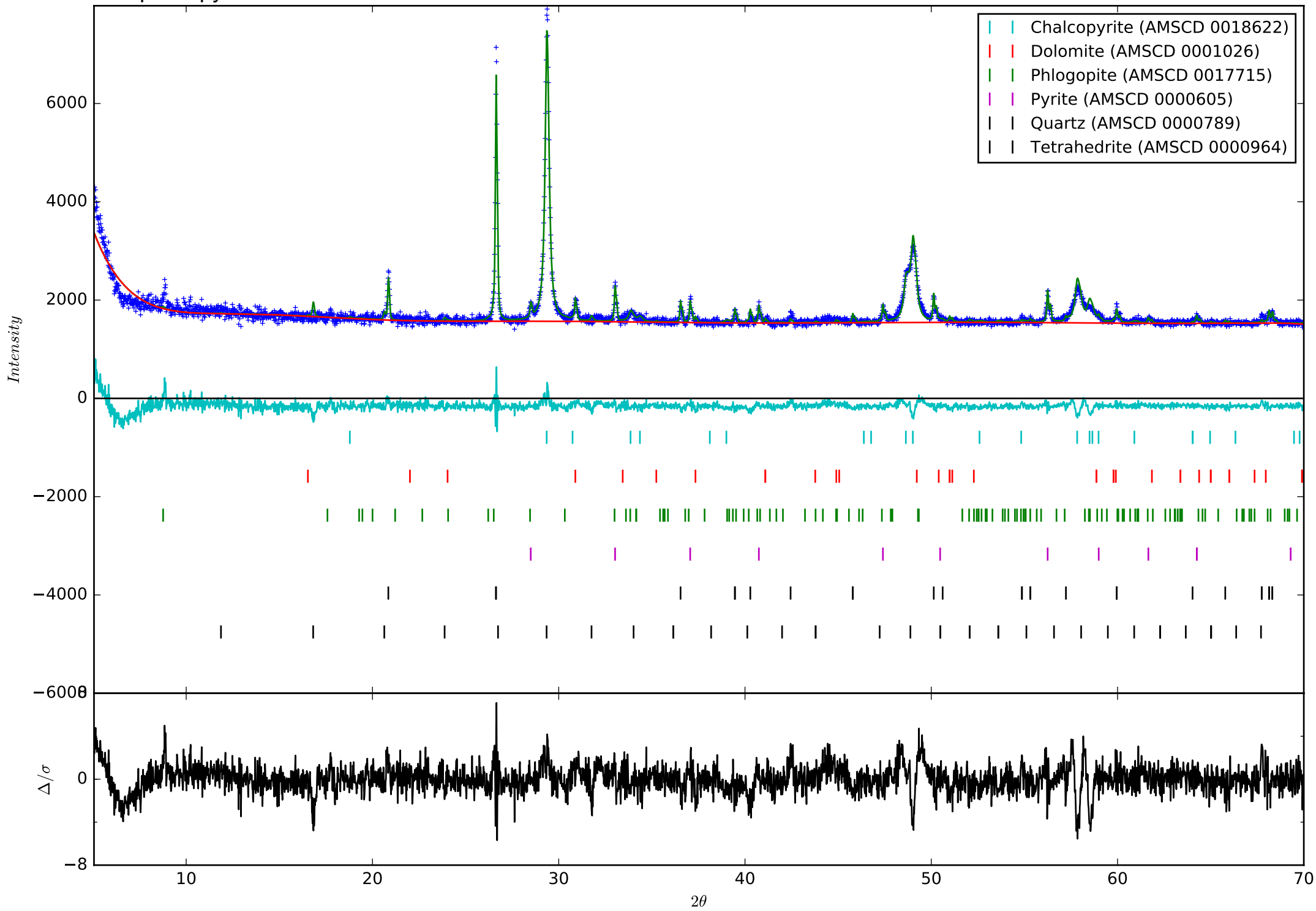
Explanation of the different elements of the plots:



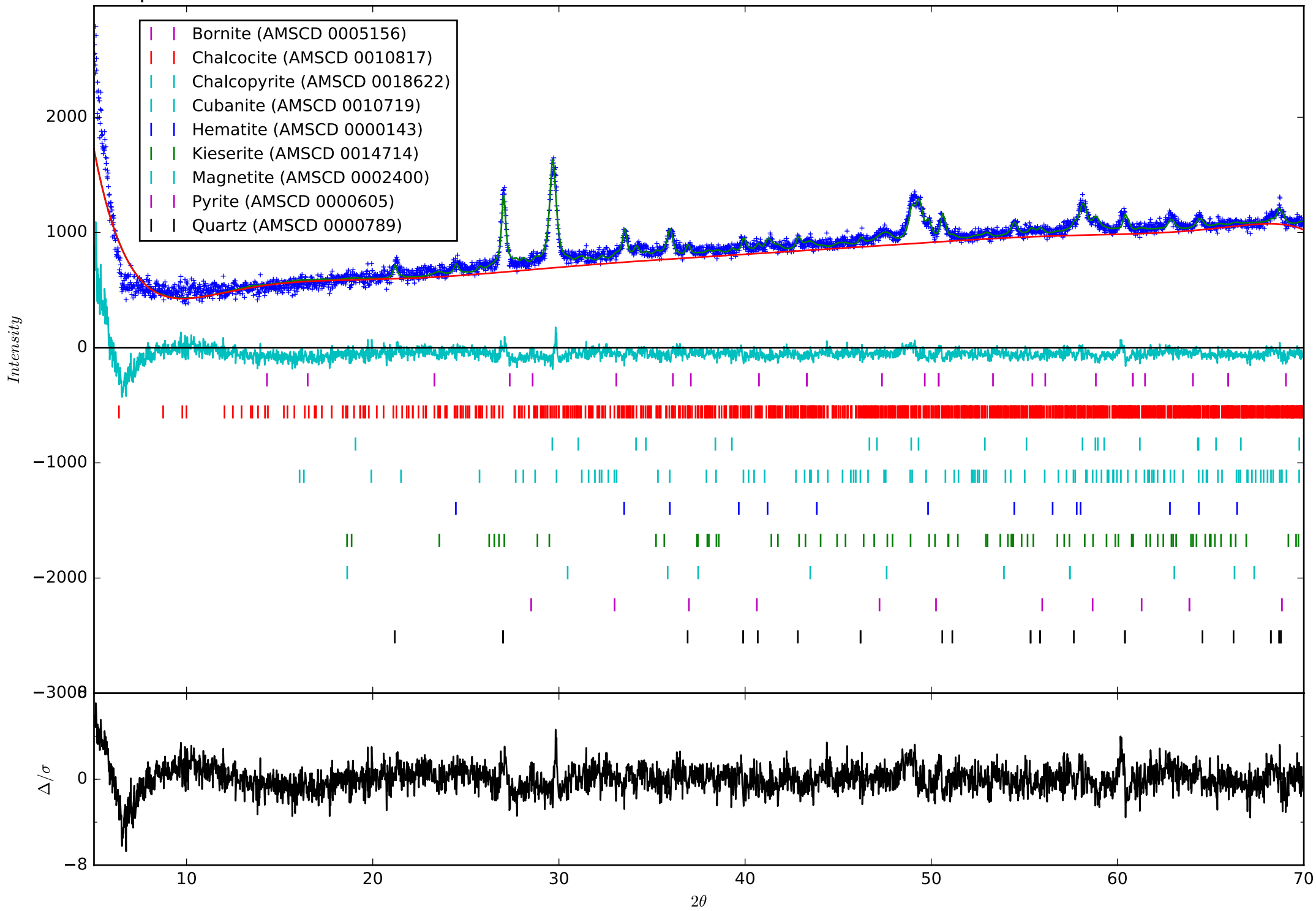
Chemical composition of the phases identified in the XRD patterns

Anhydrite	$\text{CaSO}_4$	Hedenbergite	$\text{CaFeSi}_2\text{O}_6$
Beusite	$\text{Ca}_{1.18}\text{Fe}_{0.9}\text{Mn}_{0.92}(\text{PO}_4)_2$	Hematite	$\text{Fe}_2\text{O}_3$
Bornite	$\text{Cu}_5\text{FeS}_4$	Iron	Fe
Chalcocite	$\text{Cu}_2\text{S}$	Isocubanite	$\text{CuFe}_2\text{S}_3$
Chalcopyrite	$\text{CuFeS}_2$	Kieserite	$\text{MgSO}_4 \cdot \text{H}_2\text{O}$
Copper	Cu	Magnetite	$\text{Fe}_3\text{O}_4$
Covellite	CuS	Millerite	NiS
Cristobalite	$\text{SiO}_2$	Mooihoekite	$\text{Cu}_9\text{Fe}_9\text{S}_{16}$
Cubanite	$\text{CuFe}_2\text{S}_3$	Nukundamite	$\text{Cu}_{0.848}\text{Fe}_{1.52}\text{S}$
Cuprite	$\text{Cu}_2\text{O}$	Pentlandite	$(\text{Fe},\text{Ni})_9\text{S}_8$
Cuprospinel	$(\text{Cu},\text{Mg})\text{Fe}_2\text{O}_4$	Phlogopite	$\text{KMg}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$
Diopside	$\text{CaMgSi}_2\text{O}_6$	Pyrite	$\text{FeS}_2$
Djurleite	$\text{Cu}_{31}\text{S}_{16}$	Quartz,	$\text{SiO}_2$
Dolomite	$\text{CaMg}(\text{CO}_3)_2$	Renierite	$(\text{Cu},\text{Zn})_{11}(\text{Ge},\text{As})_2\text{Fe}_4\text{S}_{16}$
Fayalite	$\text{Fe}_2\text{SiO}_4$	Tetrahedrite	$\text{Cu}_{10}(\text{Fe},\text{Zn})_2\text{Sb}_4\text{S}_{13}$
Ferrosilite	$(\text{Fe},\text{Mg})_2\text{Si}_2\text{O}_6$	Troilite	FeS
Forsterite	$\text{Mg}_2\text{SiO}_4$	Valleriite	$\text{Cu}_2\text{Fe}_4\text{S}_7$
Haycockite	$\text{Cu}_4\text{Fe}_5\text{S}_8$		

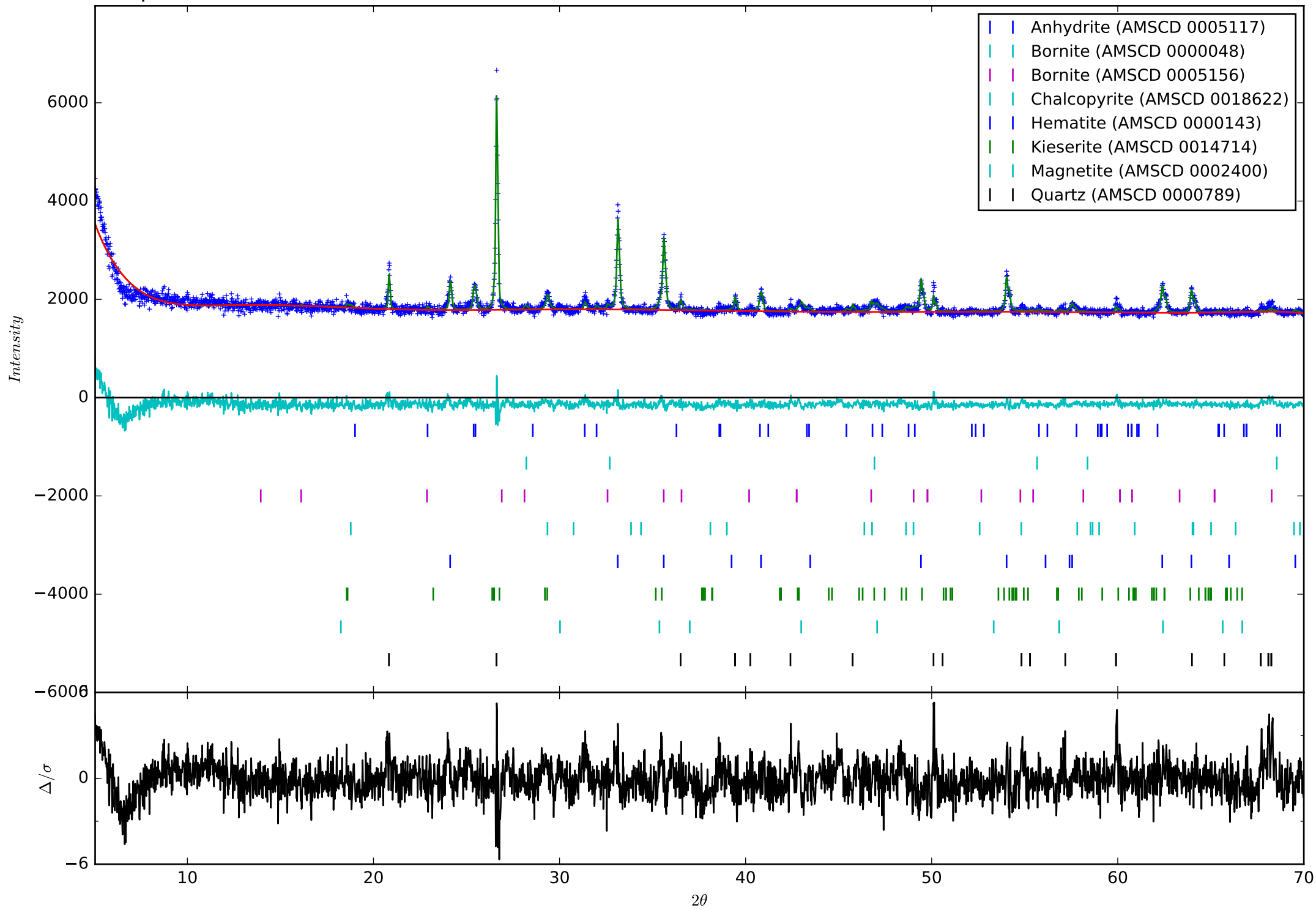
Sample: Cpy6



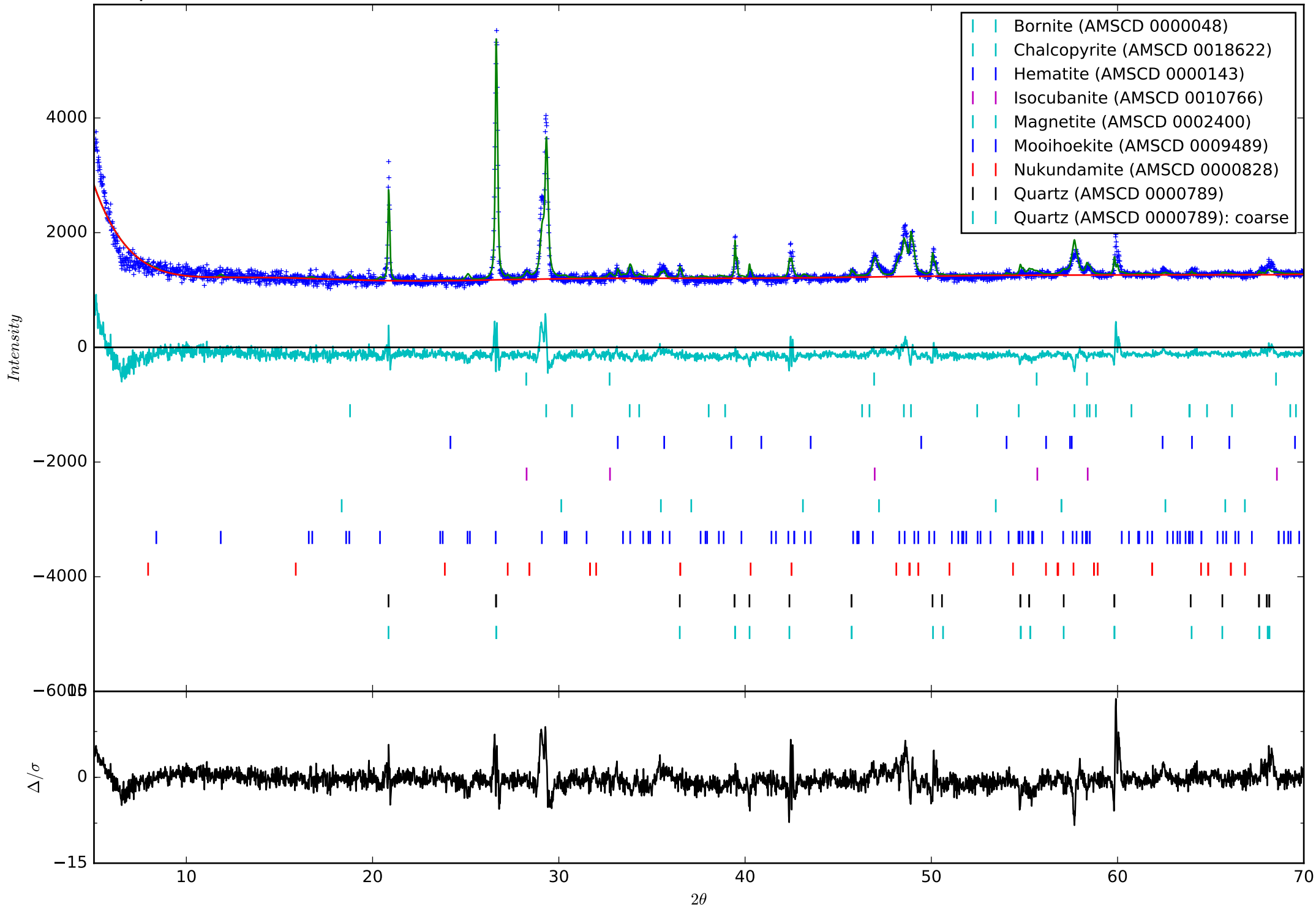
Sample: R-bulk



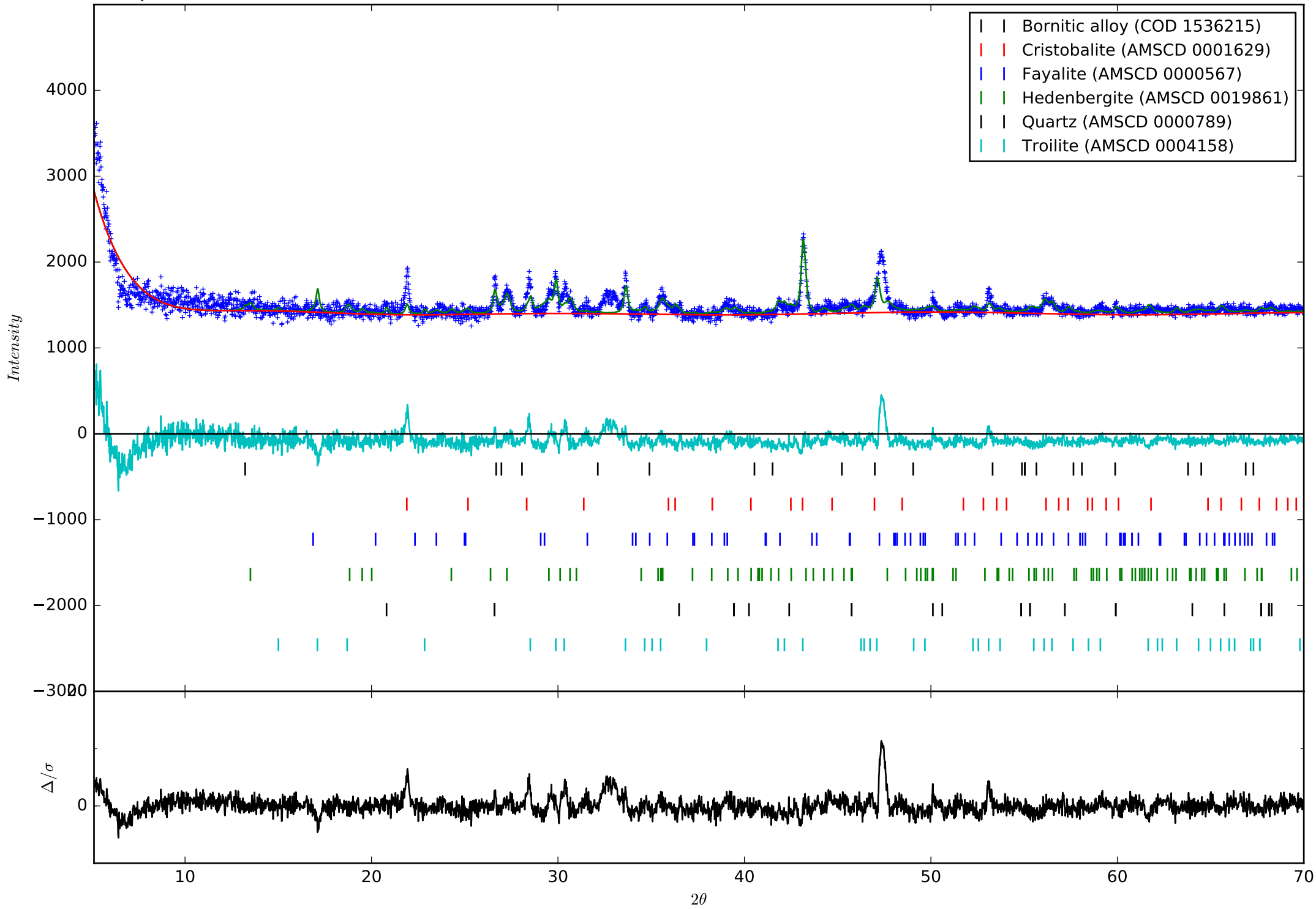
Sample: R-bulk-ox



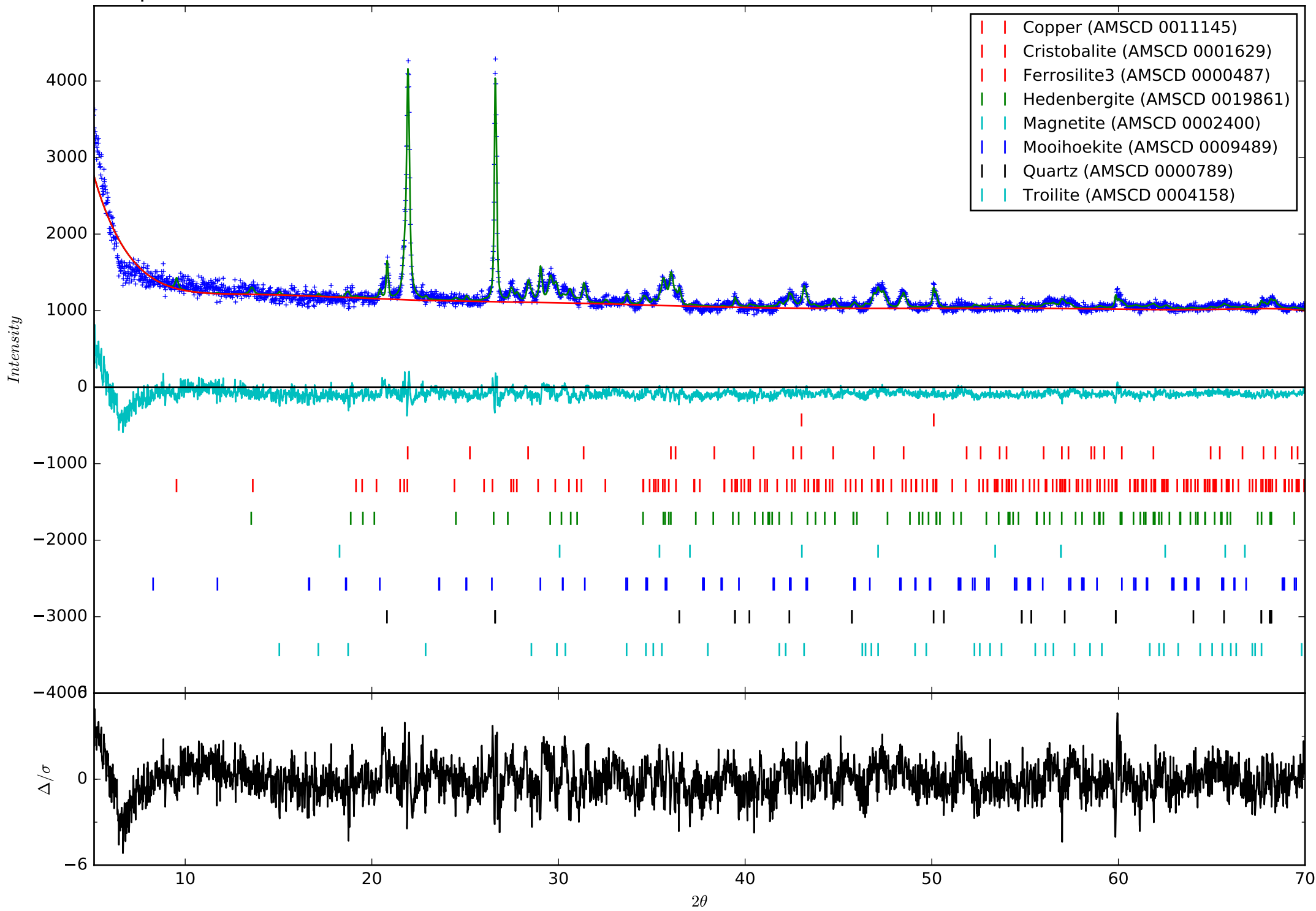
Sample: R-bulk-red



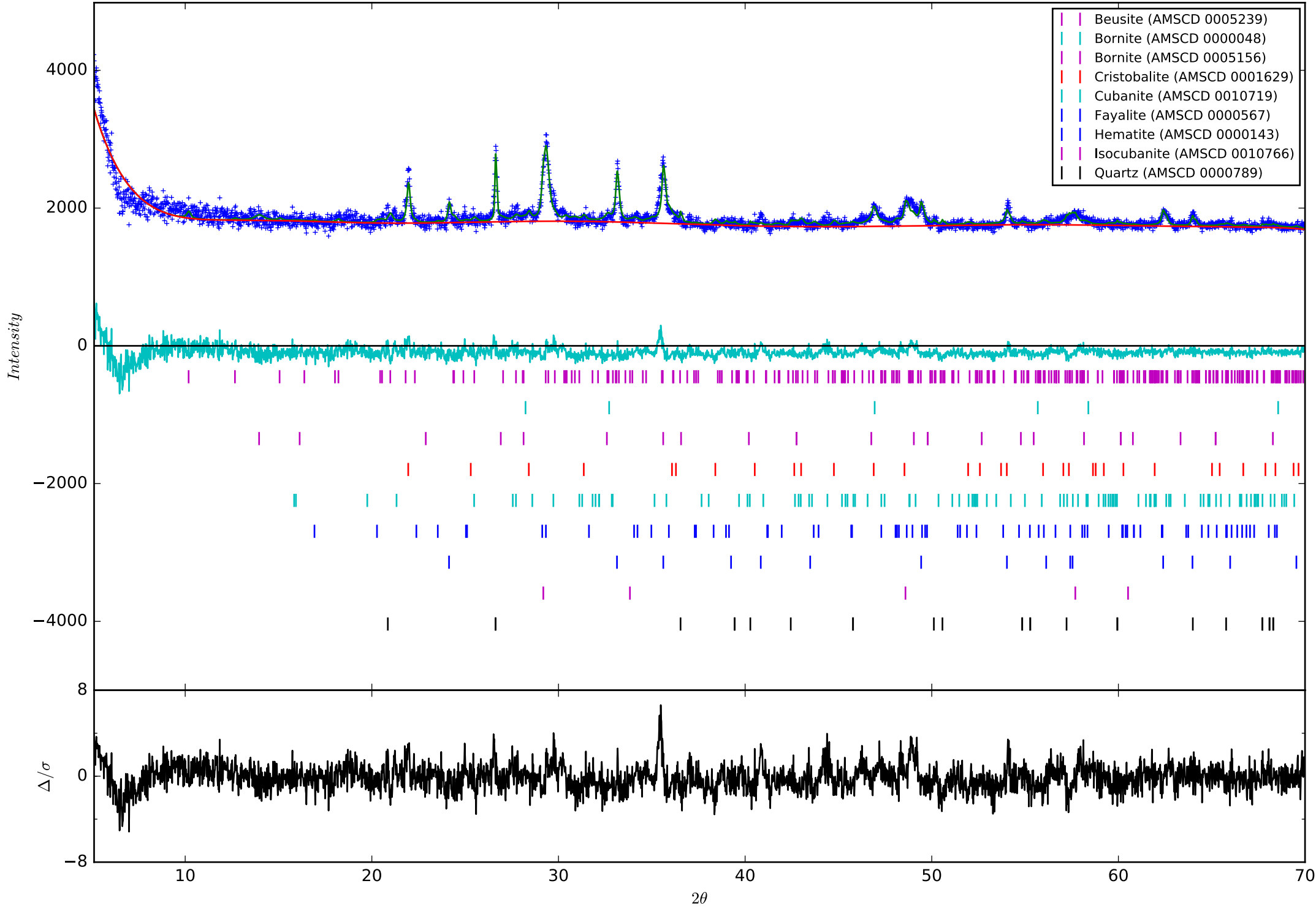
Sample: S2f1-m



Sample: S2f1-s

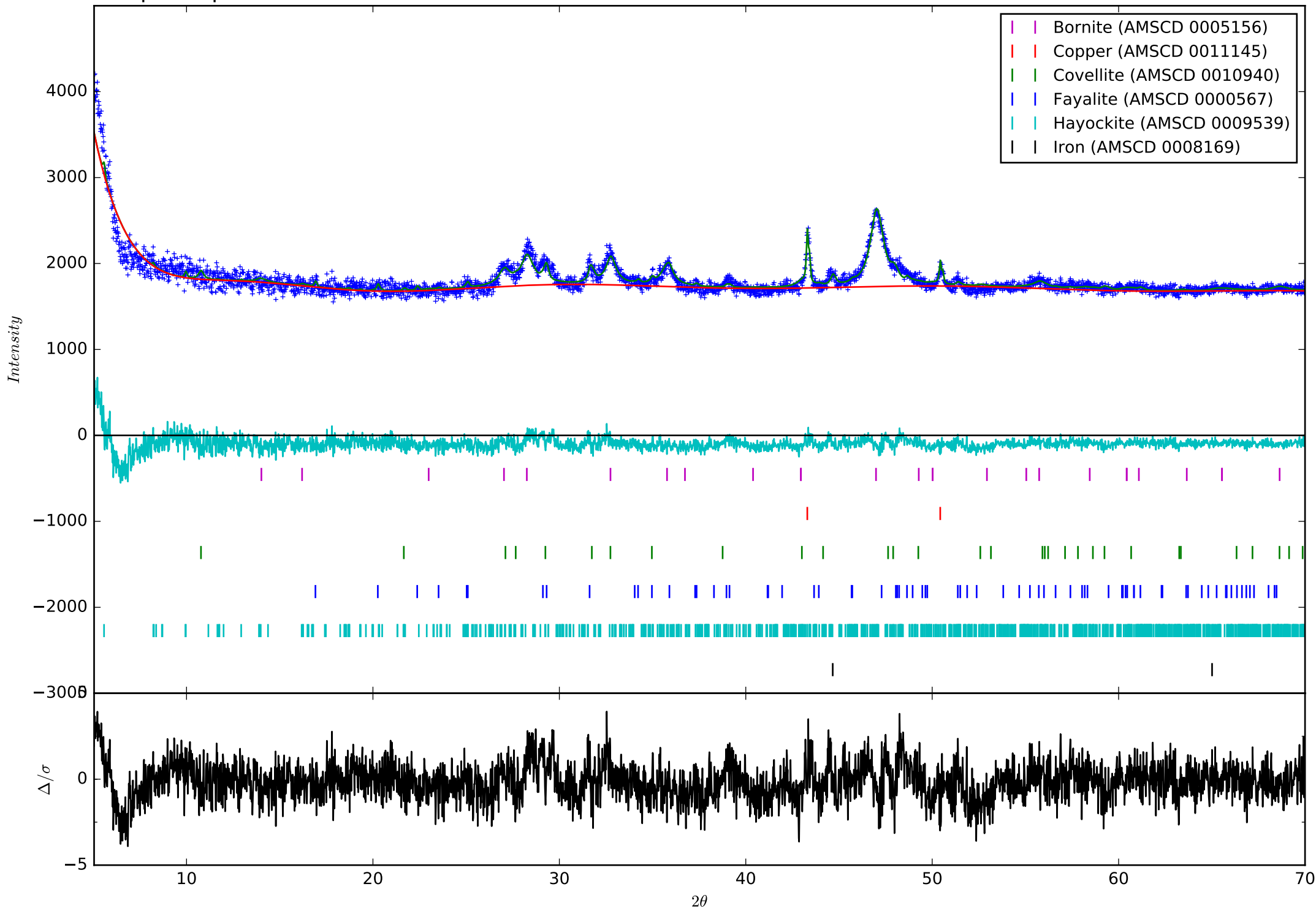


Sample: S2r1-rm

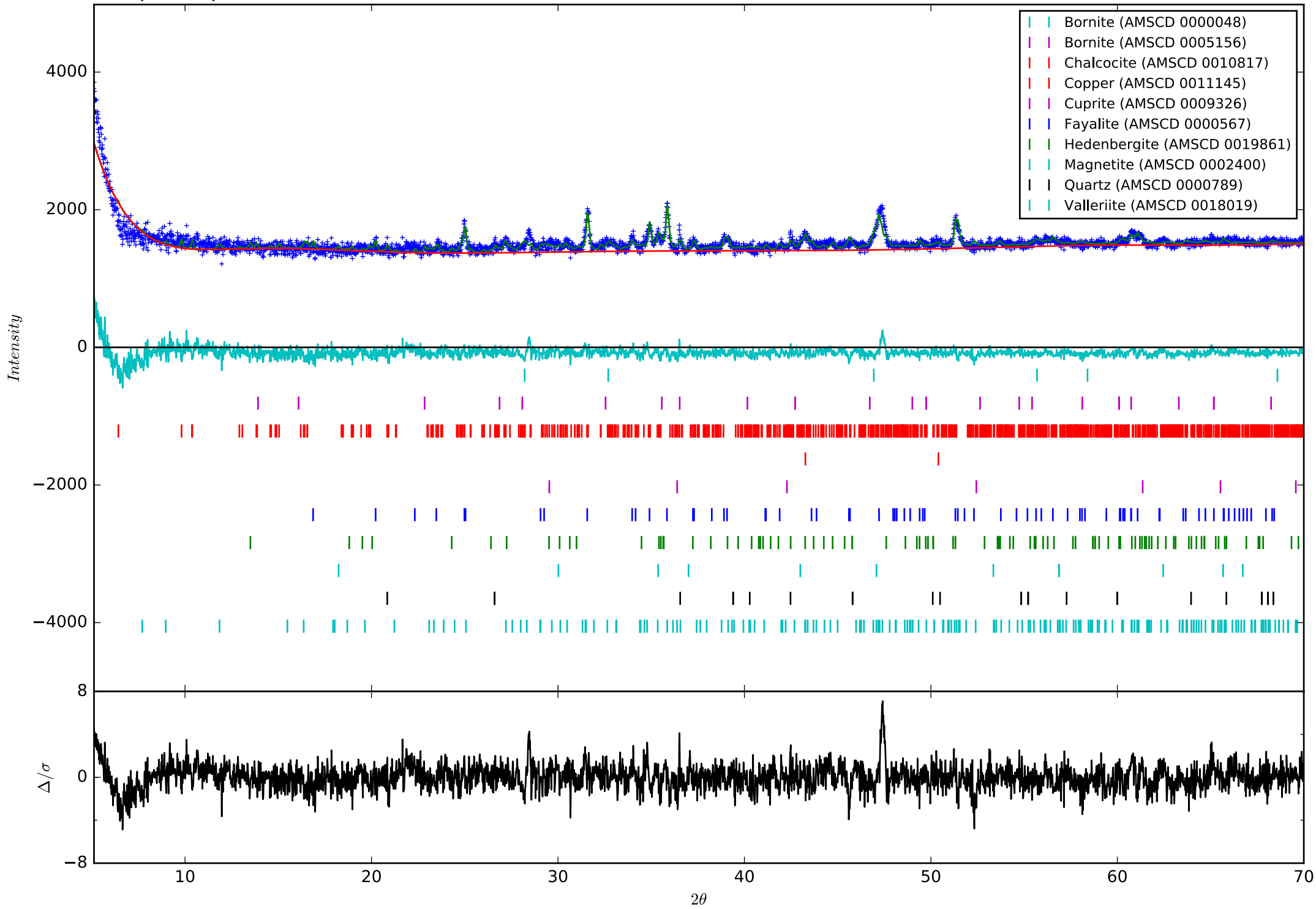




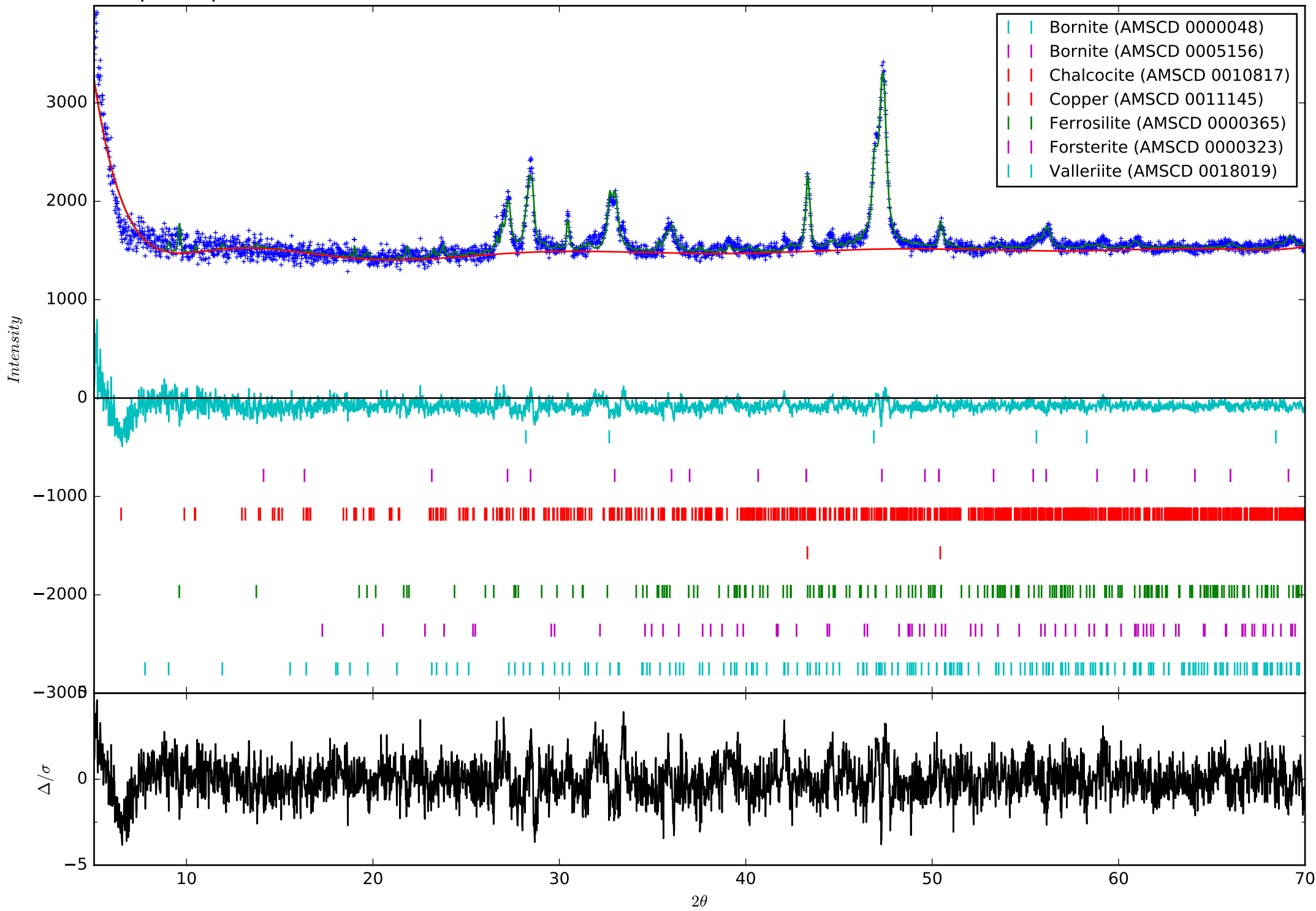
Sample: S2p1a-m



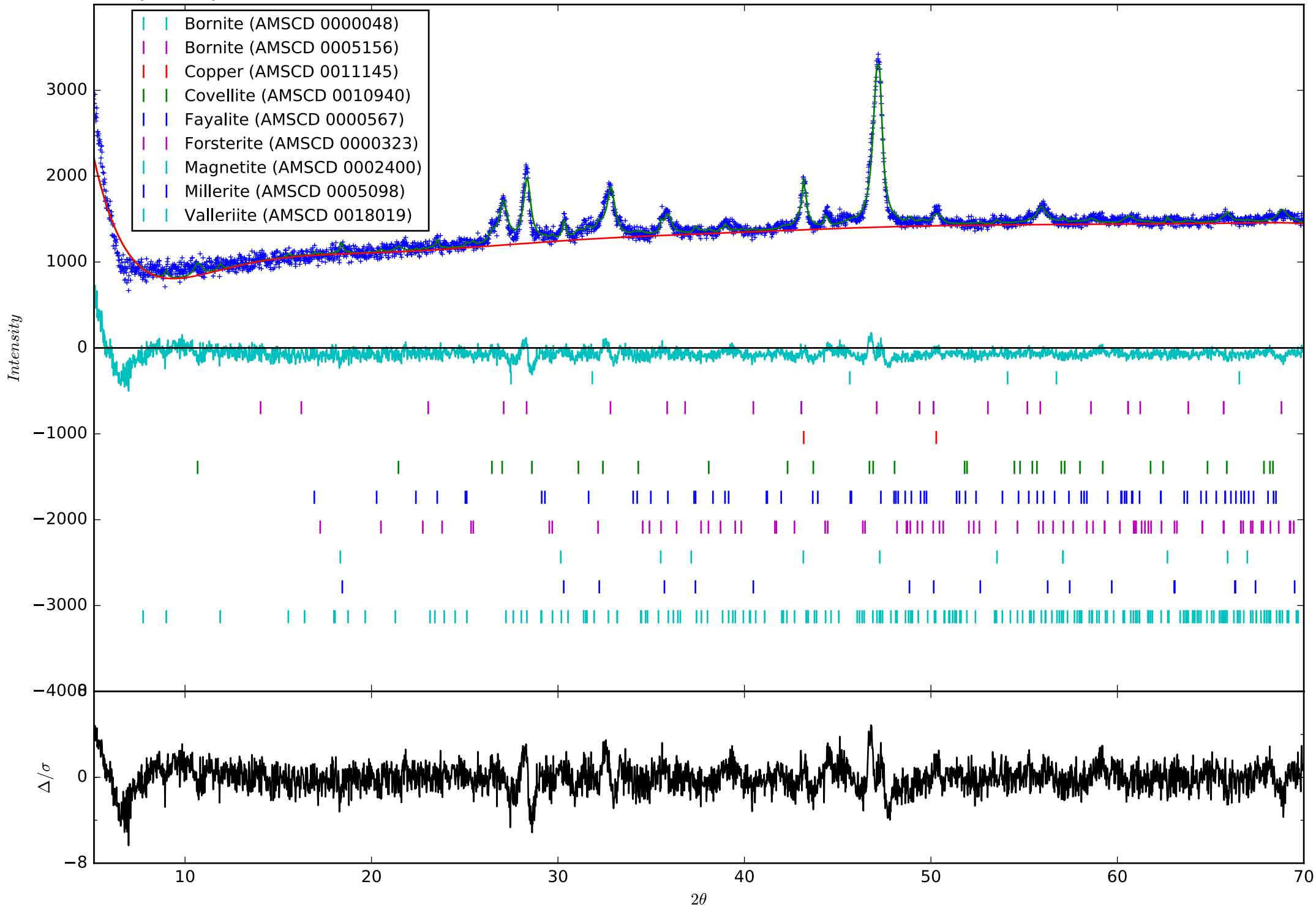
Sample: S2p1a-sm



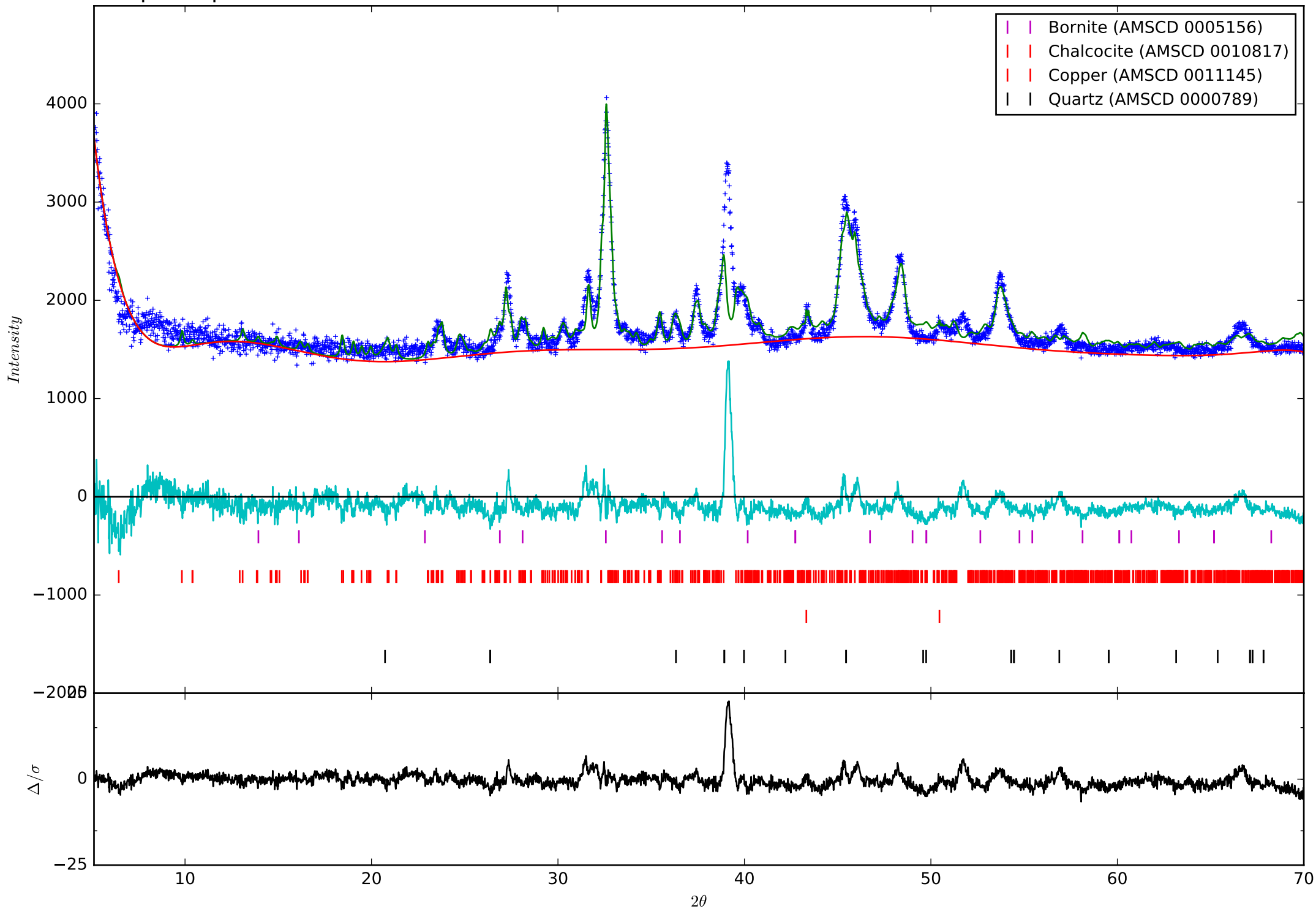
Sample: S2p3c2-m



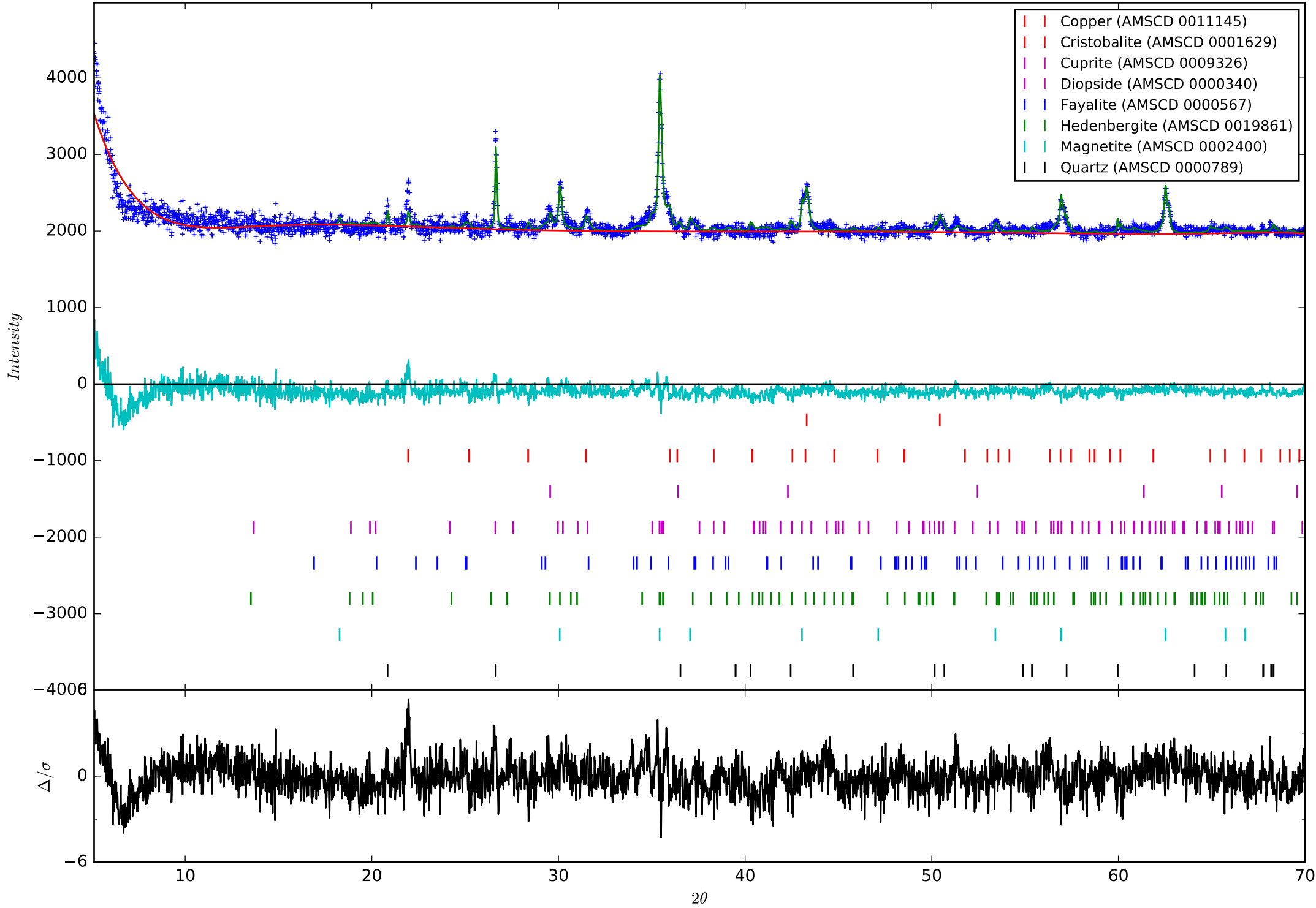
Sample: S2p3c3-m



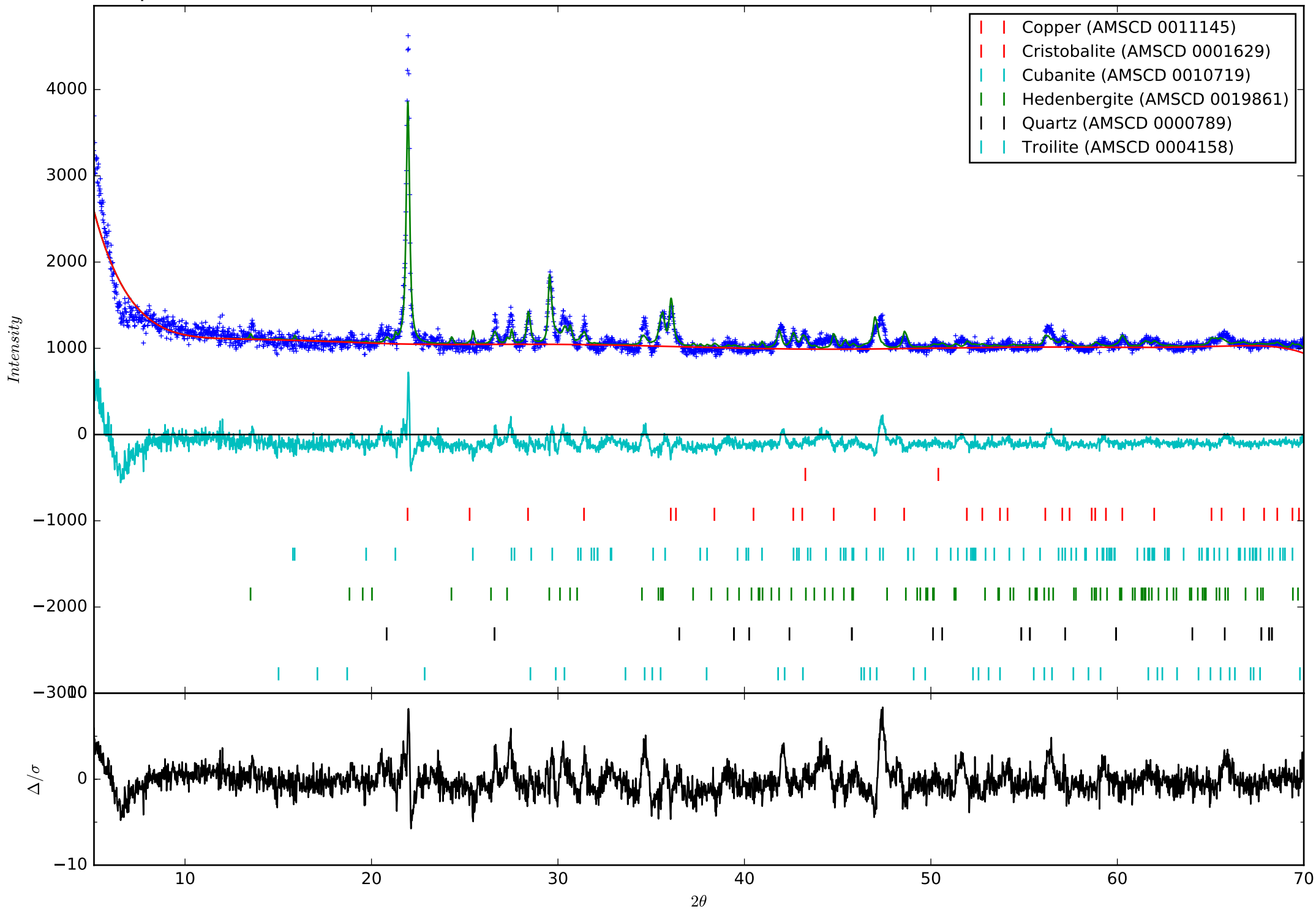
Sample: S2p3c4-m



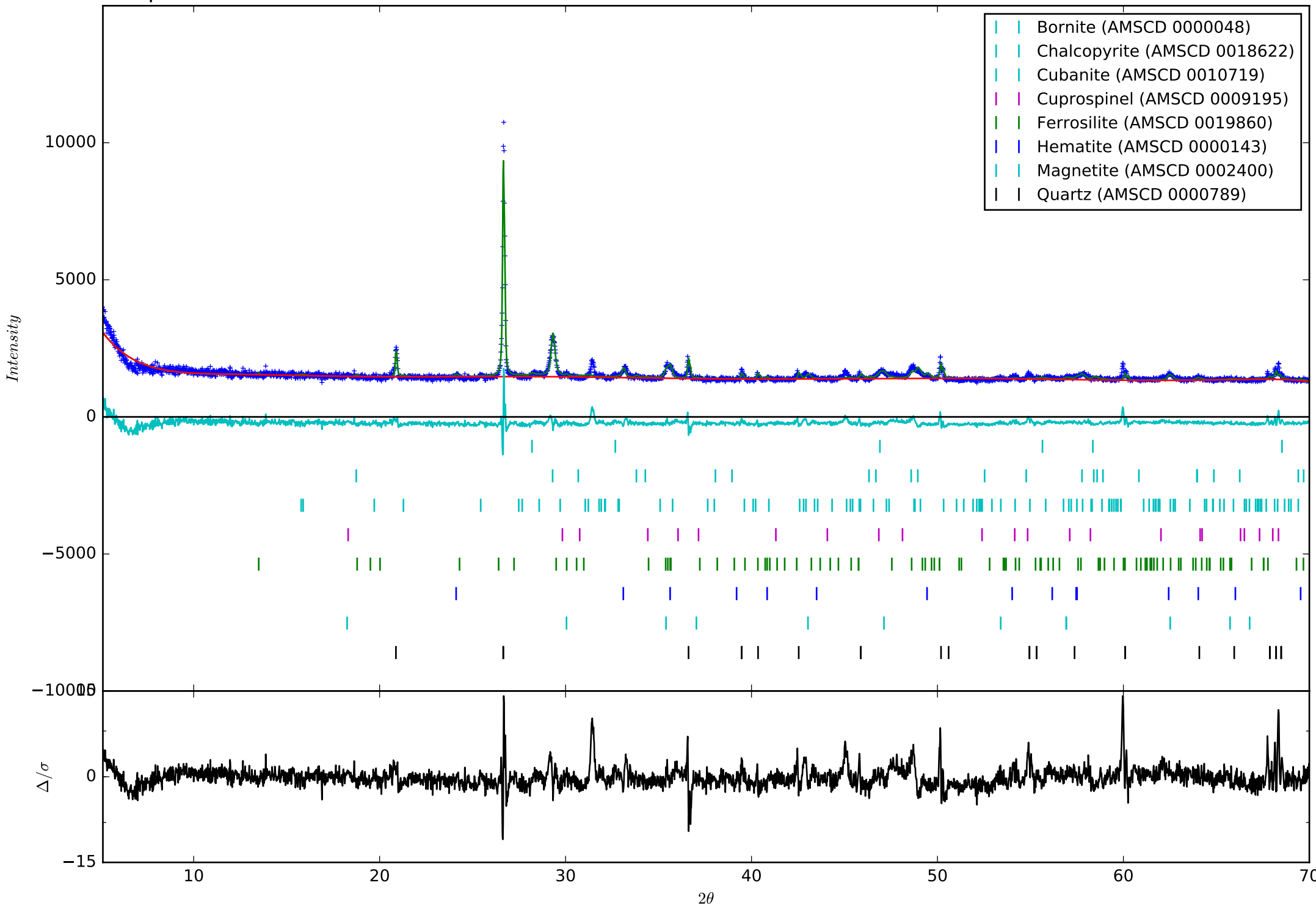
Sample: S2p3c4-s



Sample: S4f1-sm

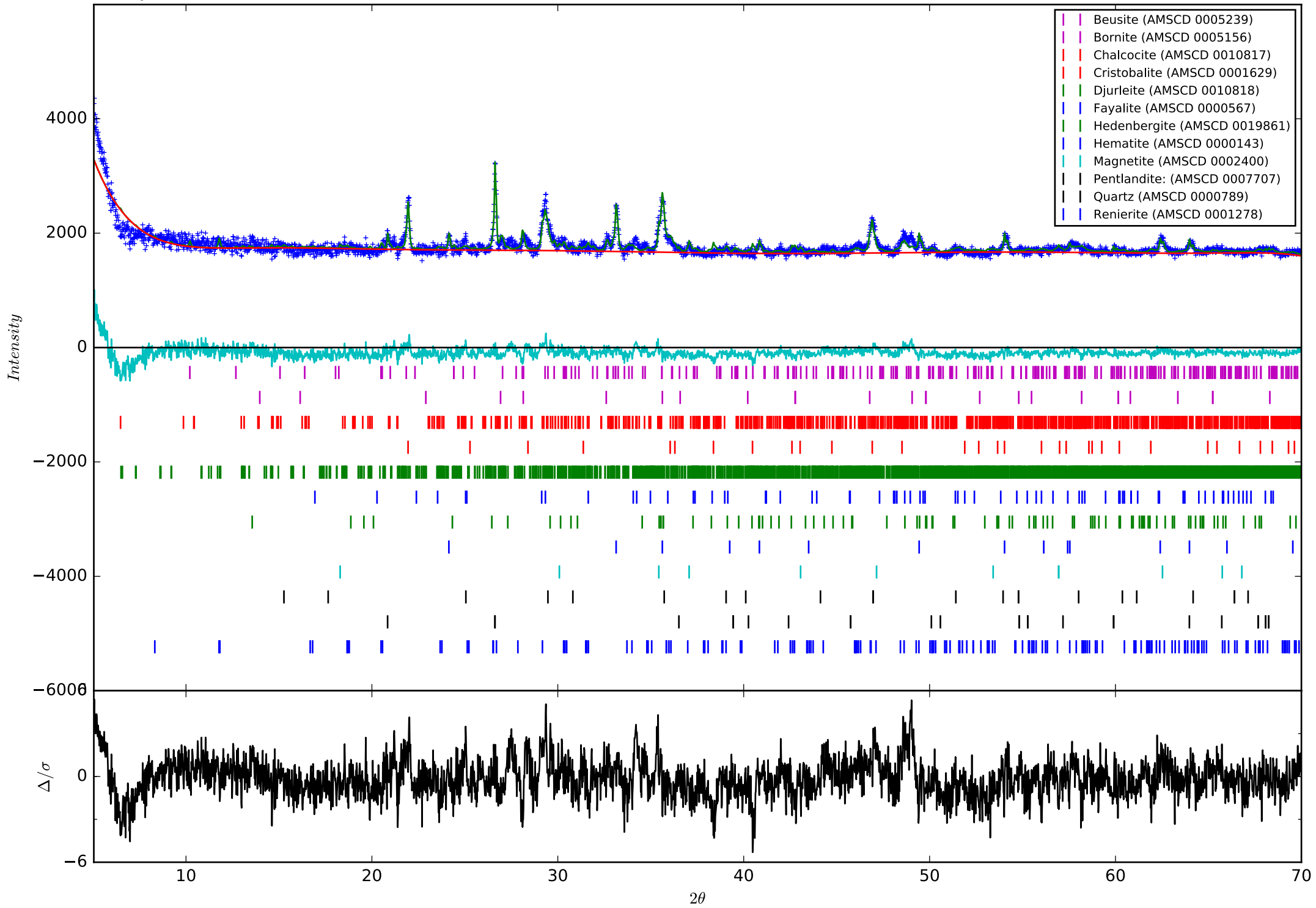


Sample: S4f1-uo

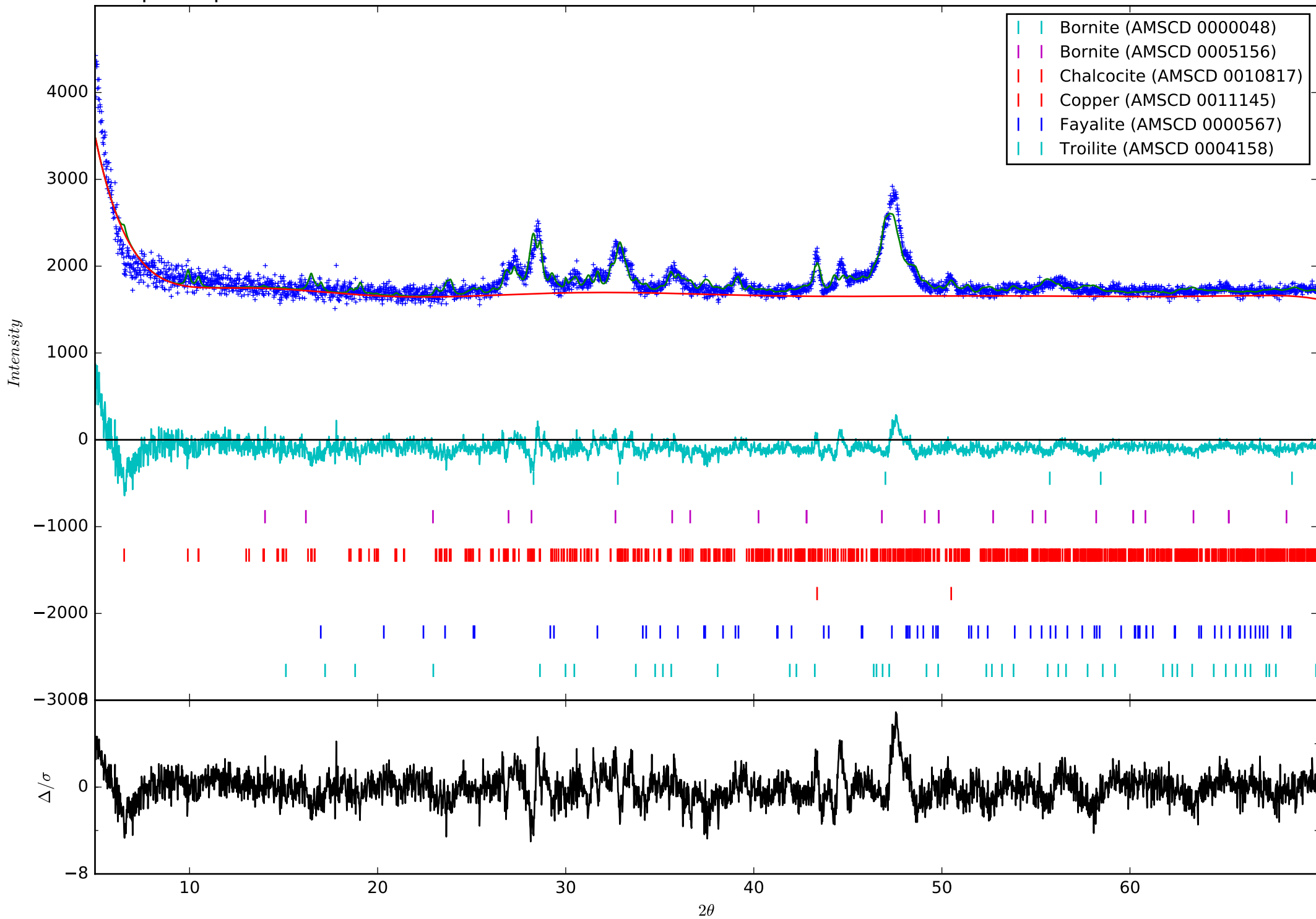




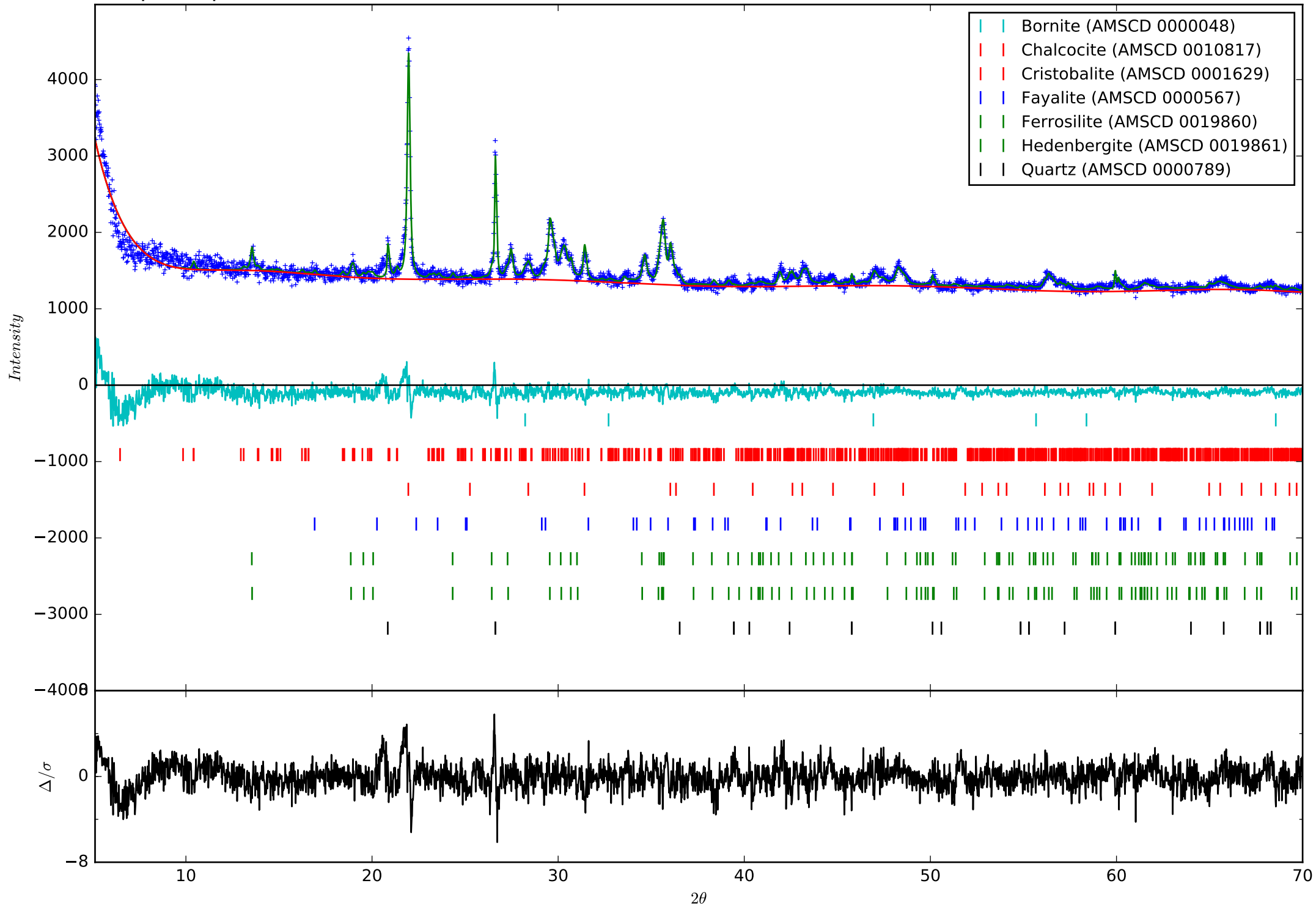
Sample: S4r1-rm



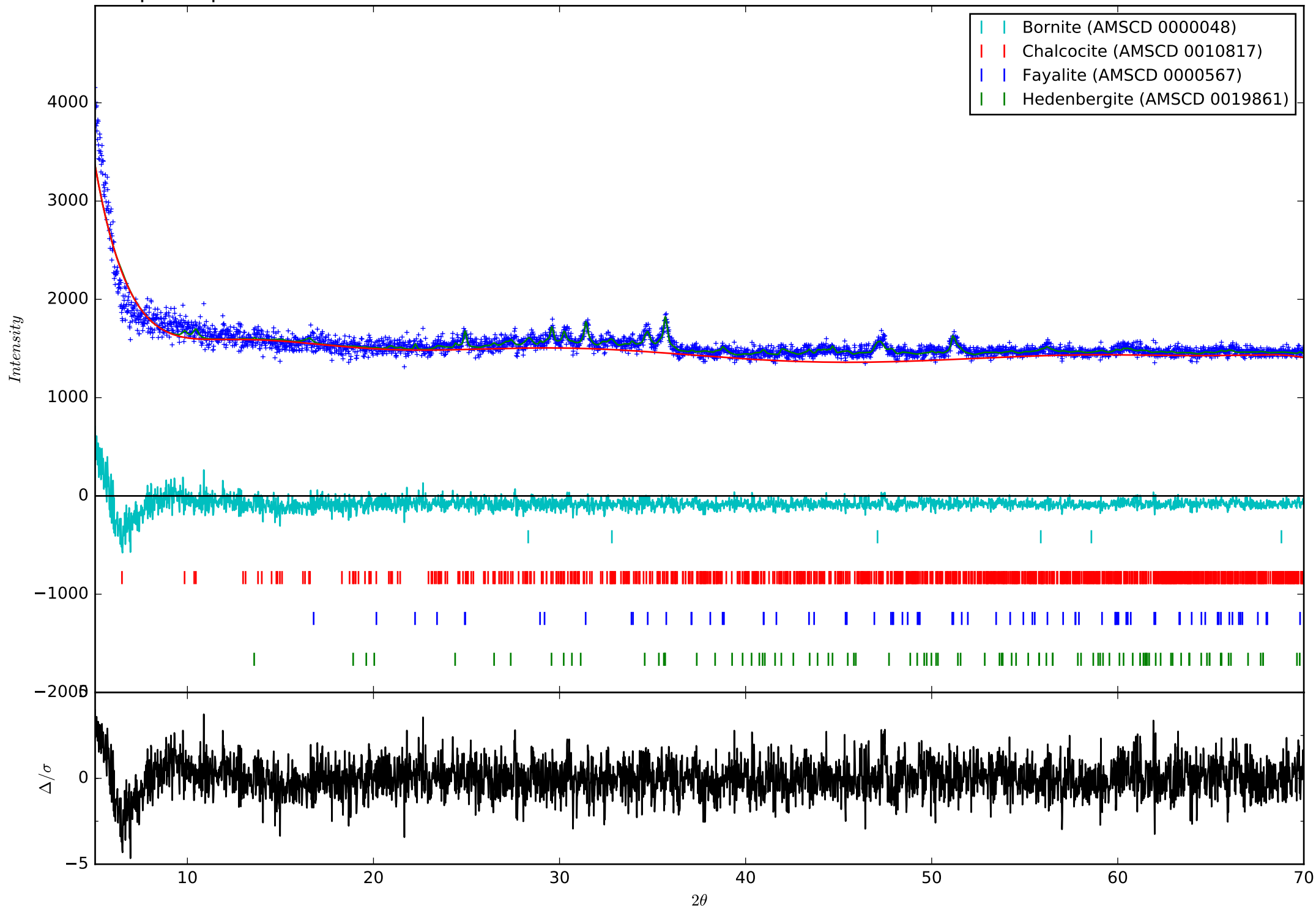
Sample: S4p1-m



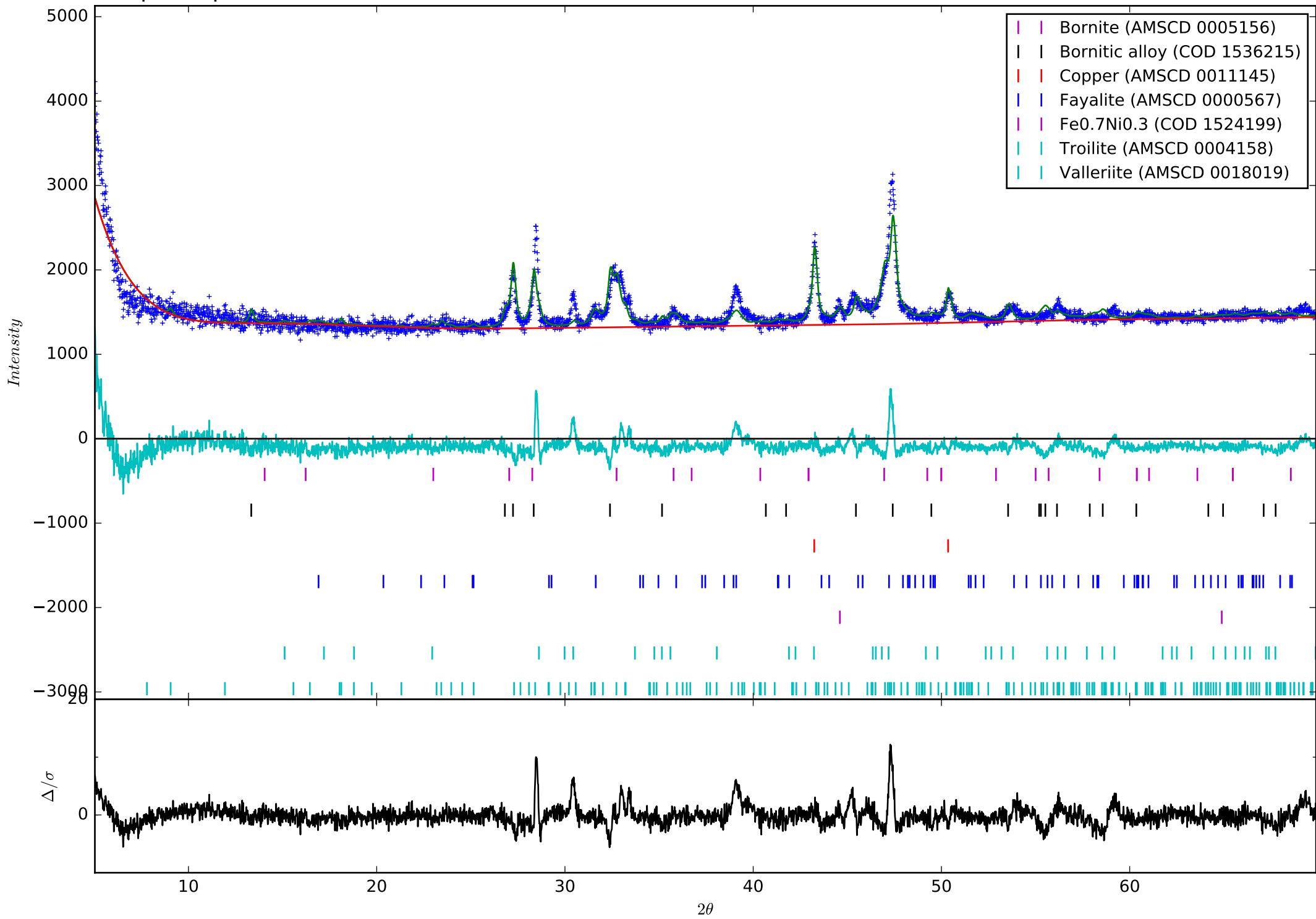
Sample: S4p1-fm



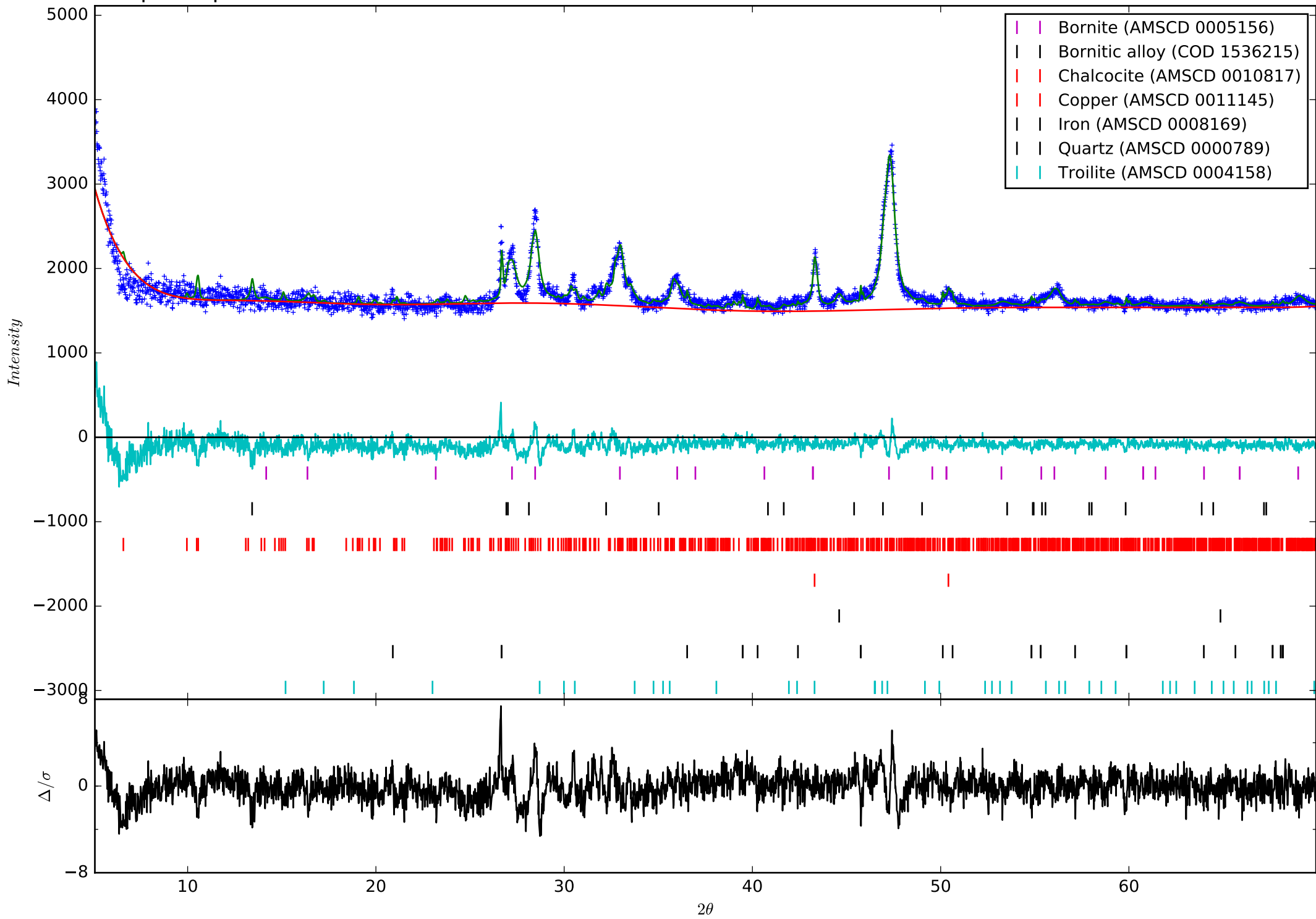
Sample: S4p1-sm



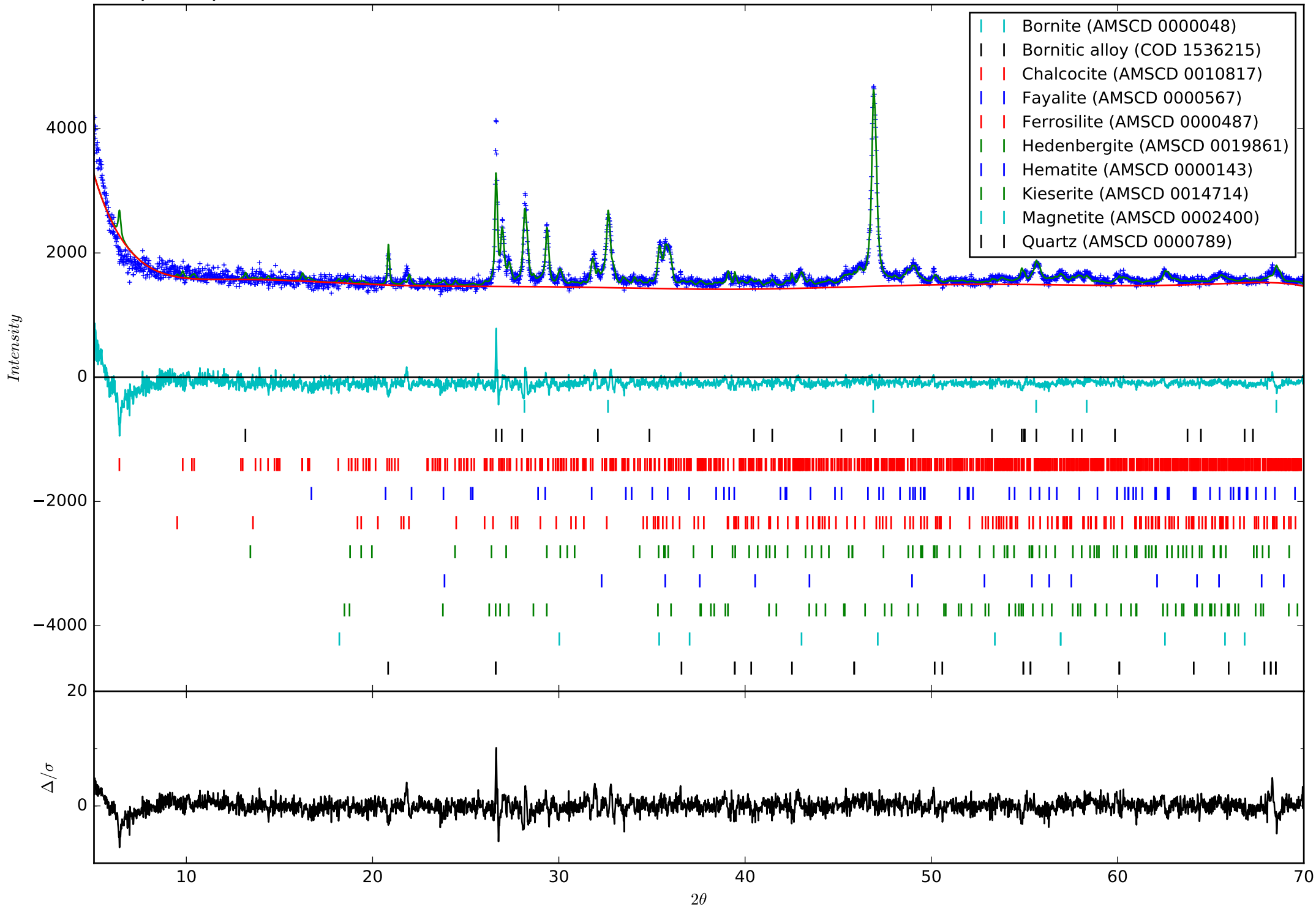
Sample: S4p2-m



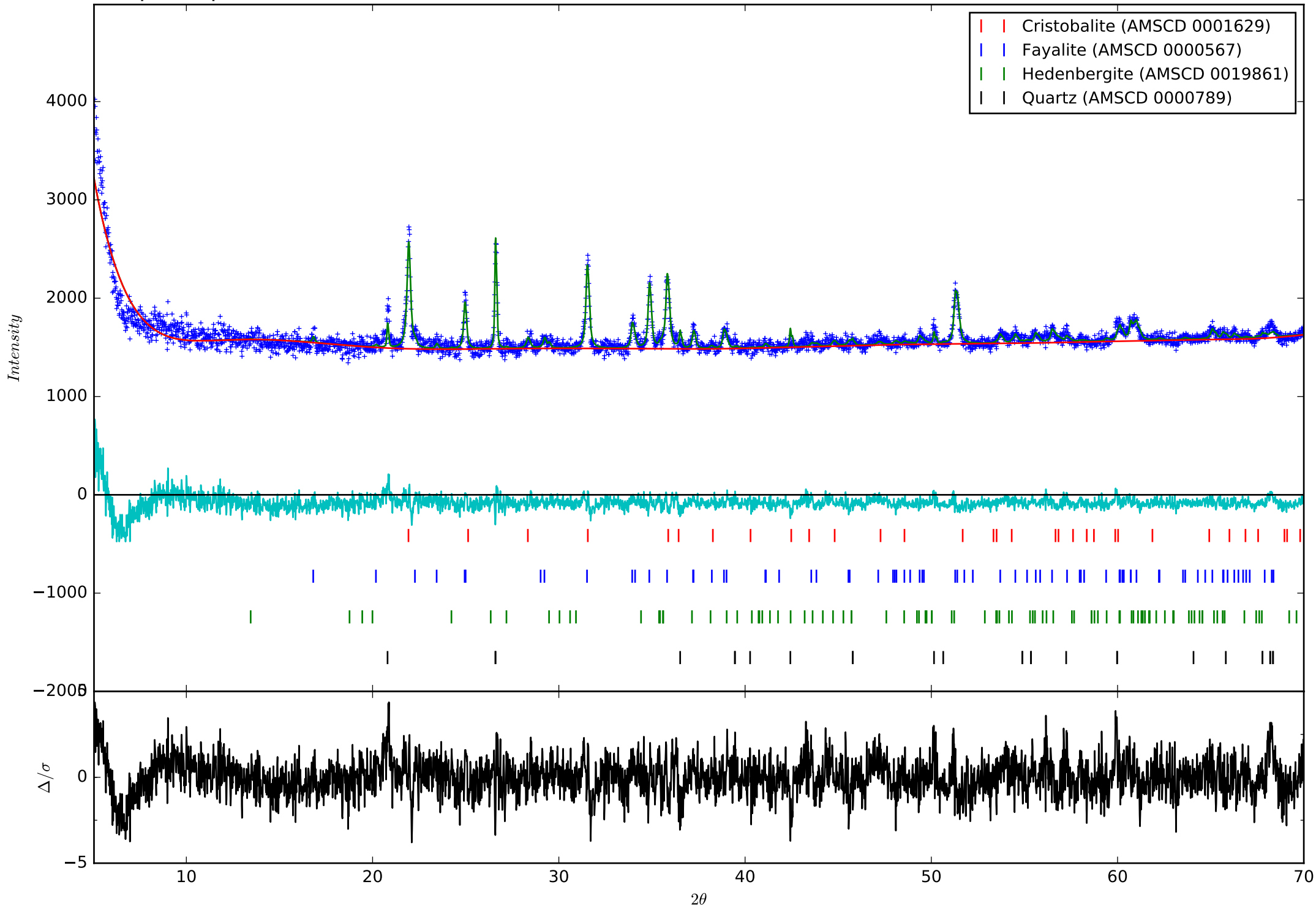
Sample: S4p2c1-m



Sample: S4p2r1-rm

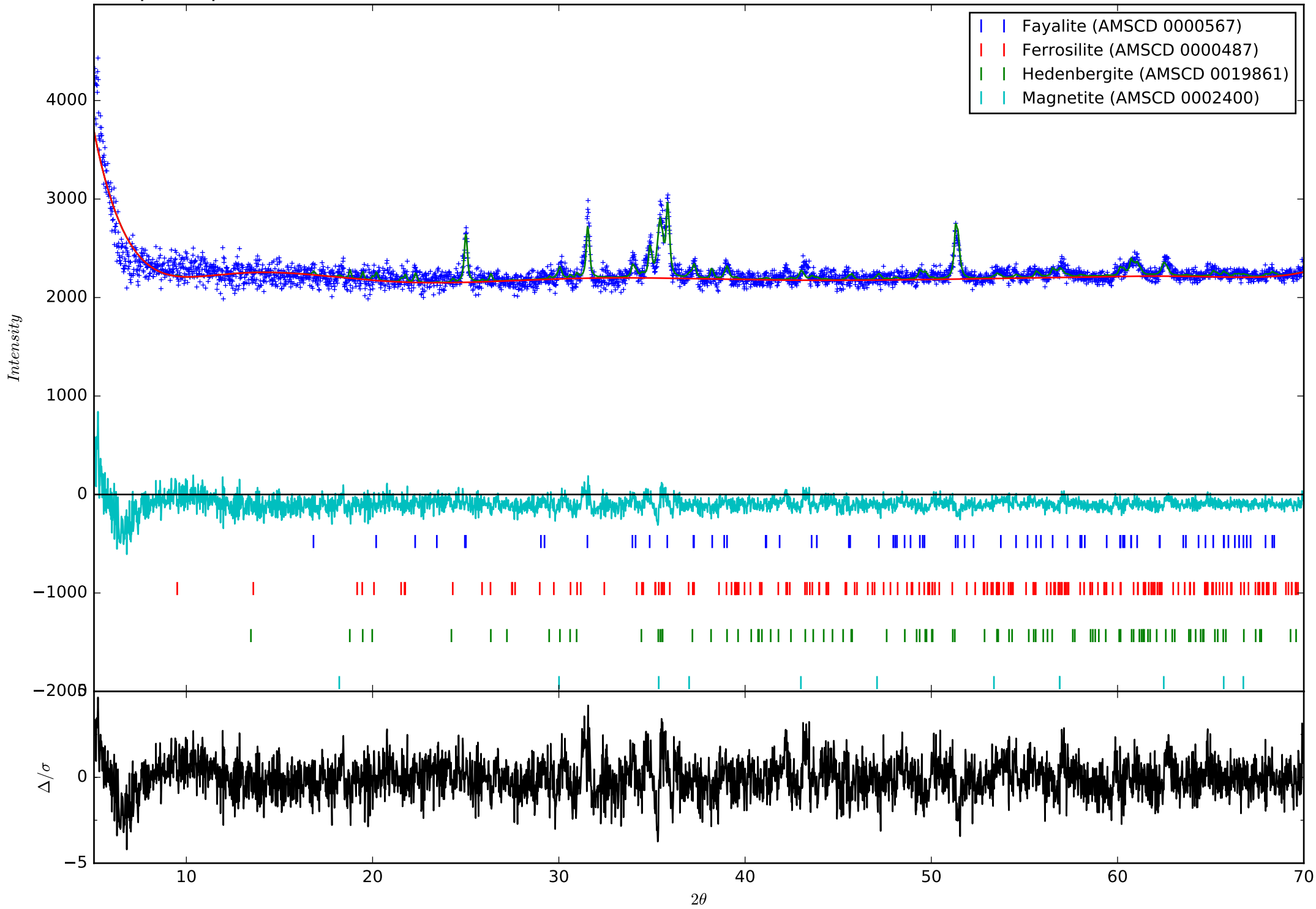


Sample: S4p2c2-s





Sample: S4p2c3-s



Sample: S4p2c3-sm

