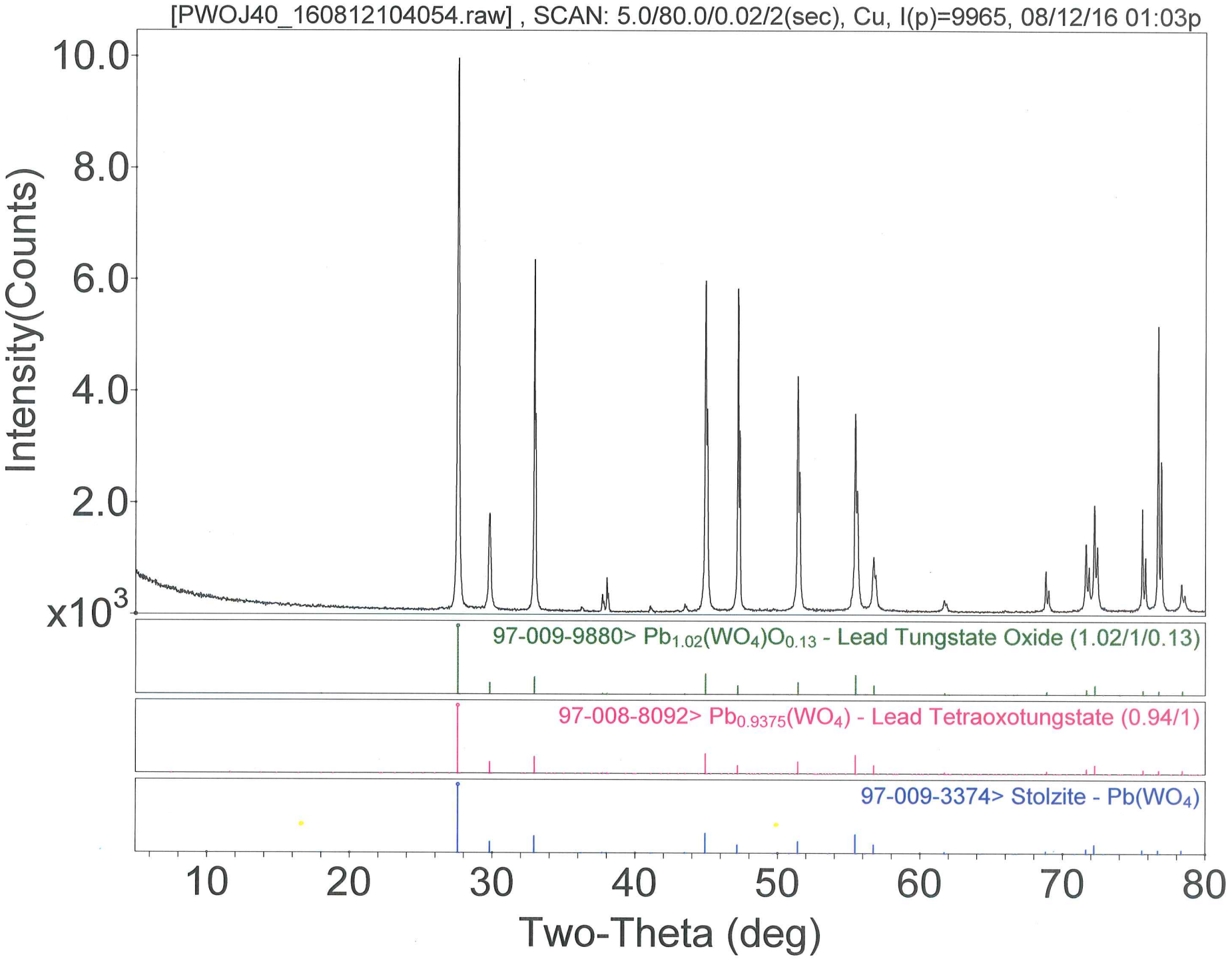
[PWOJ40_160812104054.raw] , SCAN: 5.0/80.0/0.02/2(sec), Cu, I(p)=9965, 08/12/16 01:03p
Intensity(Counts)
10.0
8.0
6.0
4.0
2.0
x10^3
97-009-9880> Pb1.02(WO4)O0.13 - Lead Tungstate Oxide (1.02/1/0.13)
97-008-8092> Pb0.9375(WO4) - Lead Tetraoxotungstate (0.94/1)
97-009-3374> Stolzite - Pb(WO4)
10
20
30
40
50
60
70
80
Two-Theta (deg)

PDF#97-009-3374: QM=Calculated; d=Calculated; I=(Unknown)	PDF Card

Stolzite, synthetic

$Pb(WO_4)$

Radiation=CuKa1 Lambda=1.5406 Filter=

Calibration= 2T=17.808-78.158 I/Ic(RIR)=21.03

Ref: Calculated from FIZ#93374 (03/08/10) by Jade

Tetragonal, $I4_1/a$ (88) Z=4

CELL: 5.46462 x 5.46462 x 12.0478 <90.0 x 90.0 x 90.0> P.S=

Density(c)=8.401 Density(m)= Mwt= Vol=359.8

Ref: Ibid.

NOTE: FIZ#93374: "Crystal structure of lead tungstate at 1.4 and 300 K", Chipaux, R.;Andre, G.;Cousson, A., Journal of Alloys Compd., v325 (2001) 91-94, Golden Book of Phase Transitions, Wroclaw, v1 (2002) 1-123, PDF#19-708. Compound with mineral name: Stolzite. Neutron diffraction (powder). The structure has been assigned a PDF number (calculated powder diffraction data): 01-070-7591. The structure has been assigned a PDF number (experimental powder diffraction data): 19-708. Rietveld profile refinement applied. Temperature in Kelvin: 290. Structure type : CaWO4. No R value given in the paper. At least one temperature factor missing in the paper.

Strong Lines: 3.25/X 2.02/3 1.66/3 2.73/2 1.78/2 3.01/2 1.63/1 1.31/1

41 Lines, Wavelength to Compute Theta = 1.54059Å(Cu), I%-Type = (Unknown)

#	d(Å)	I(f)	(hkl)	2-Theta	Theta	1/(2d)	#	d(Å)	I(f)	(hkl)	2-Theta	Theta	1/(2d)
1	4.9766	0.3	(101)	17.808	8.904	0.1005	22	1.5060	2.1	(008)	61.527	30.763	0.3320
2	3.2524	100.0	(112)	27.400	13.700	0.1537	23	1.5038	0.1	(321)	61.627	30.814	0.3325
3	3.2361	0.1	(103)	27.541	13.771	0.1545	24	1.4989	0.0	(314)	61.849	30.925	0.3336
4	3.0120	16.4	(004)	29.636	14.818	0.1660	25	1.4531	0.0	(305)	64.027	32.013	0.3441
5	2.7323	24.6	(200)	32.750	16.375	0.1830	26	1.4180	0.0	(233)	65.808	32.904	0.3526
6	2.4883	0.2	(202)	36.066	18.033	0.2009	27	1.4072	0.0	(127)	66.379	33.189	0.3553
7	2.3951	1.1	(211)	37.521	18.761	0.2088	28	1.4032	0.1	(118)	66.592	33.296	0.3563
8	2.3755	0.7	(114)	37.842	18.921	0.2105	29	1.3922	0.0	(226)	67.185	33.593	0.3591
9	2.2047	0.4	(105)	40.899	20.449	0.2268	30	1.3662	3.5	(400)	68.644	34.322	0.3660
10	2.0877	0.8	(123)	43.304	21.652	0.2395	31	1.3323	0.1	(402)	70.642	35.321	0.3753
11	2.0237	28.9	(204)	44.746	22.373	0.2471	32	1.3189	6.7	(208)	71.471	35.735	0.3791
12	1.9320	12.1	(220)	46.993	23.497	0.2588	33	1.3174	0.0	(141)	71.564	35.782	0.3795
13	1.8397	0.0	(222)	49.505	24.753	0.2718	34	1.3098	12.7	(316)	72.045	36.022	0.3817
14	1.8011	0.2	(301)	50.642	25.321	0.2776	35	1.3002	0.0	(109)	72.661	36.331	0.3846
15	1.7818	17.3	(116)	51.230	25.615	0.2806	36	1.2829	0.1	(235)	73.800	36.900	0.3897
16	1.7158	0.0	(125)	53.351	26.676	0.2914	37	1.2596	5.5	(332)	75.405	37.703	0.3970
17	1.6611	27.3	(132)	55.257	27.628	0.3010	38	1.2586	0.0	(413)	75.473	37.736	0.3973
18	1.6589	0.1	(303)	55.336	27.668	0.3014	39	1.2510	0.0	(307)	76.011	38.006	0.3997
19	1.6416	0.1	(107)	55.969	27.984	0.3046	40	1.2442	5.1	(404)	76.505	38.253	0.4019
20	1.6262	12.7	(224)	56.546	28.273	0.3075	41	1.2219	5.2	(240)	78.158	39.079	0.4092
21	1.6180	0.0	(206)	56.858	28.429	0.3090							