

Institut für Kunsttechnik und Konservierung
Kornmarkt 1
90402 Nürnberg

Certificate of Verification

XL3t-69288

Reading No 1
Mode Mining
Time 2014-07-29 17:10
Duration 120.85
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P1 Burgpokal
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	162.533
La	< LOD	:	74.353
Ba	< LOD	:	78.991
Sb	< LOD	:	26.151
Sn	646.720	±	21.208
Cd	16.537	±	7.221
Ag	14.408	±	4.940
Bal	900848.938	±	775.019
Nb	30.114	±	19.772
Zr	< LOD	:	100.467
Y	< LOD	:	24.545
Sr	60.266	±	5.223
Rb	< LOD	:	49.675
Th	< LOD	:	1511.729
Bi	< LOD	:	1085.688
Au	2171.829	±	66.336
As	6796.537	±	179.924
Se	< LOD	:	21.012
Pb	28676.762	±	441.902
Hg	< LOD	:	21.897
Zn	132.799	±	16.269
Cu	962.792	±	40.206
Ni	< LOD	:	46.530
Co	< LOD	:	93.084
Fe	10765.683	±	251.243
Mn	194.651	±	71.840
Cr	84.231	±	19.938
V	< LOD	:	38.214
Ti	< LOD	:	134.568
Ca	9508.383	±	217.952
K	1482.706	±	133.651
Al	1367.366	±	431.976
P	16306.122	±	312.633
Si	4010.219	±	296.328
Cl	1257.899	±	33.855
S	14631.041	±	250.935
Mg	< LOD	:	6422.507

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Reading No 2
Mode Mining
Time 2014-07-29 17:15
Duration 120.70
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P2 Stern
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	298.734
La	< LOD	:	136.122
Ba	< LOD	:	147.968
Sb	< LOD	:	49.738
Sn	313.012	±	26.528
Cd	21.342	±	12.626
Ag	23.021	±	8.982
Bal	757774.188	±	3268.838
Nb	< LOD	:	95.275
Zr	< LOD	:	295.092
Y	< LOD	:	78.224
Sr	31.575	±	12.168
Rb	< LOD	:	196.315
Th	< LOD	:	4881.236
Bi	< LOD	:	3029.907
Au	1492.523	±	102.126
As	10781.713	±	450.239
Se	< LOD	:	40.267
Pb	89569.961	±	2045.328
Hg	< LOD	:	51.108
Zn	< LOD	:	67.064
Cu	62294.375	±	1201.237
Ni	< LOD	:	97.833
Co	< LOD	:	96.810
Fe	5138.873	±	197.358
Mn	337.243	±	100.581
Cr	< LOD	:	50.260
V	< LOD	:	64.683
Ti	< LOD	:	324.549
Ca	18412.520	±	436.692
K	2810.494	±	220.516
Al	3495.748	±	867.443
P	9225.851	±	274.088
Si	11635.212	±	521.149
Cl	2660.498	±	76.019
S	23735.215	±	533.159
Mg	< LOD	:	13871.021

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Reading No 3
Mode Mining
Time 2014-07-29 17:20
Duration 121.68
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P3 NIMBUS
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	181.210
La	< LOD	:	83.301
Ba	< LOD	:	88.449
Sb	< LOD	:	40.083
Sn	462.628	±	21.193
Cd	< LOD	:	11.672
Ag	22.802	±	5.946
Bal	868737.250	±	1176.834
Nb	< LOD	:	44.075
Zr	< LOD	:	142.872
Y	< LOD	:	36.485
Sr	95.410	±	7.492
Rb	< LOD	:	73.998
Th	< LOD	:	2343.911
Bi	< LOD	:	1508.191
Au	2908.254	±	89.398
As	10543.681	±	269.985
Se	< LOD	:	33.035
Pb	44126.281	±	768.584
Hg	< LOD	:	29.121
Zn	178.969	±	19.542
Cu	1014.386	±	45.279
Ni	< LOD	:	55.179
Co	< LOD	:	66.636
Fe	3786.140	±	148.307
Mn	< LOD	:	162.013
Cr	45.463	±	26.166
V	< LOD	:	28.463
Ti	< LOD	:	149.995
Ca	13781.462	±	316.294
K	1683.452	±	160.943
Al	2165.977	±	588.460
P	21817.150	±	467.541
Si	7421.181	±	423.661
Cl	1549.733	±	45.758
S	19559.496	±	390.266
Mg	< LOD	:	9312.859

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XL3t-69288

Reading No 4
Mode Mining
Time 2014-07-29 17:25
Duration 120.77
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P4 Kristallpokal
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	189.713
La	< LOD	:	86.814
Ba	< LOD	:	92.147
Sb	< LOD	:	32.731
Sn	1200.908	±	37.123
Cd	19.788	±	8.817
Ag	27.821	±	6.596
Bal	806780.938	±	1726.945
Nb	< LOD	:	48.098
Zr	< LOD	:	156.142
Y	< LOD	:	40.403
Sr	126.669	±	8.785
Rb	< LOD	:	80.956
Th	< LOD	:	2461.999
Bi	< LOD	:	1656.817
Au	3024.430	±	97.119
As	11331.405	±	296.716
Se	< LOD	:	27.494
Pb	47513.980	±	850.155
Hg	< LOD	:	32.950
Zn	199.448	±	21.949
Cu	1643.370	±	62.010
Ni	< LOD	:	84.599
Co	< LOD	:	130.187
Fe	17268.387	±	397.406
Mn	356.555	±	87.872
Cr	117.961	±	29.759
V	< LOD	:	37.461
Ti	< LOD	:	196.051
Ca	18671.217	±	405.579
K	2135.078	±	196.318
Al	3357.653	±	931.047
P	39814.160	±	780.471
Si	12119.928	±	652.637
Cl	2158.240	±	63.743
S	31966.980	±	604.192
Mg	< LOD	:	17915.754

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Kornmarkt 1
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XL3t-69288

Reading No 5
Mode Mining
Time 2014-07-29 17:33
Duration 121.87
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P5 Pressbrokat Mantel re
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	577.745	±	332.864
La	427.179	±	151.323
Ba	619.234	±	162.062
Sb	112.647	±	51.225
Sn	26919.373	±	650.566
Cd	54.718	±	25.039
Ag	39.773	±	14.421
Bal	718874.063	±	4235.784
Nb	162.575	±	74.591
Zr	< LOD	:	333.530
Y	< LOD	:	88.348
Sr	< LOD	:	19.793
Rb	< LOD	:	206.471
Th	< LOD	:	6041.544
Bi	< LOD	:	3405.440
Au	1148.897	±	96.810
As	5664.124	±	429.270
Se	< LOD	:	39.922
Pb	107767.125	±	2514.533
Hg	< LOD	:	58.676
Zn	< LOD	:	70.911
Cu	26323.430	±	643.981
Ni	< LOD	:	98.957
Co	< LOD	:	133.115
Fe	9536.077	±	332.446
Mn	394.981	±	137.019
Cr	84.232	±	40.377
V	< LOD	:	131.647
Ti	< LOD	:	555.853
Ca	50538.973	±	1133.282
K	3421.336	±	332.399
Al	4183.011	±	1091.384
P	2484.522	±	170.295
Si	16315.285	±	693.691
Cl	2549.128	±	84.669
S	21461.531	±	547.407
Mg	< LOD	:	16129.973

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Kornmarkt 1
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XL3t-69288

Reading No 6
Mode Mining
Time 2014-07-29 17:43
Duration 121.85
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P6 Pressbrokat MANTEL li
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	540.491
La	473.510	±	165.060
Ba	712.125	±	177.494
Sb	175.456	±	55.906
Sn	51186.543	±	1253.725
Cd	101.776	±	30.276
Ag	39.037	±	15.497
Bal	633905.313	±	5665.144
Nb	104.265	±	67.571
Zr	< LOD	:	318.836
Y	< LOD	:	84.412
Sr	48.340	±	14.947
Rb	< LOD	:	163.361
Th	< LOD	:	4892.965
Bi	< LOD	:	3384.406
Au	2565.592	±	132.992
As	< LOD	:	619.632
Se	< LOD	:	49.988
Pb	86641.500	±	2108.225
Hg	168.298	±	39.115
Zn	< LOD	:	82.460
Cu	54607.621	±	1288.739
Ni	< LOD	:	116.249
Co	< LOD	:	166.225
Fe	13642.952	±	434.056
Mn	325.319	±	154.459
Cr	374.702	±	46.385
V	< LOD	:	163.173
Ti	< LOD	:	756.087
Ca	87989.750	±	1651.353
K	5086.686	±	316.414
Al	7532.295	±	1415.369
P	3007.701	±	186.524
Si	20363.031	±	760.212
Cl	4304.352	±	113.410
S	25815.166	±	555.204
Mg	< LOD	:	20652.871

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Reading No 7
Mode Mining
Time 2014-07-29 17:50
Duration 120.05
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P7 Pressbrokat Mantel untn
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	478.829
La	373.934	±	145.843
Ba	1075.815	±	162.861
Sb	378.559	±	52.931
Sn	40164.074	±	872.740
Cd	110.012	±	25.834
Ag	33.946	±	13.200
Bal	760443.250	±	3391.703
Nb	96.648	±	53.460
Zr	< LOD	:	252.818
Y	< LOD	:	66.268
Sr	64.953	±	12.349
Rb	< LOD	:	136.847
Th	< LOD	:	3649.597
Bi	< LOD	:	2647.557
Au	1286.559	±	85.459
As	< LOD	:	493.481
Se	< LOD	:	38.813
Pb	72768.883	±	1554.591
Hg	122.289	±	32.773
Zn	< LOD	:	57.354
Cu	32435.615	±	716.649
Ni	< LOD	:	98.336
Co	< LOD	:	149.795
Fe	14269.285	±	402.082
Mn	496.519	±	161.507
Cr	< LOD	:	104.308
V	< LOD	:	212.969
Ti	< LOD	:	1175.428
Ca	28045.166	±	667.479
K	3379.495	±	348.155
Al	3515.118	±	1030.662
P	2314.807	±	167.083
Si	13687.703	±	607.128
Cl	2083.740	±	67.065
S	21743.160	±	468.468
Mg	< LOD	:	18213.156

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XL3t-69288

Reading No 8
Mode Mining
Time 2014-07-29 17:57
Duration 120.13
Units ppm
Sigma Value 2
Sequence Final
Flags
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P8 Pelikanpokal
MESSAUFBAU STATIV
FILTER 30 30 30 35
User Login Stein



	ppm	±	Error
Ce	< LOD	:	221.616
La	< LOD	:	101.712
Ba	< LOD	:	107.586
Sb	< LOD	:	54.732
Sn	1382.638	±	41.937
Cd	19.327	±	9.819
Ag	28.319	±	7.204
Bal	829619.125	±	1702.229
Nb	59.721	±	38.278
Zr	< LOD	:	182.046
Y	< LOD	:	47.096
Sr	119.094	±	9.665
Rb	< LOD	:	155.623
Th	< LOD	:	2960.041
Bi	< LOD	:	1898.726
Au	3165.507	±	104.621
As	11282.715	±	321.805
Se	< LOD	:	28.871
Pb	57492.203	±	1078.692
Hg	< LOD	:	36.765
Zn	187.627	±	22.536
Cu	1720.813	±	65.773
Ni	< LOD	:	107.412
Co	< LOD	:	129.863
Fe	15536.145	±	383.691
Mn	321.917	±	90.345
Cr	110.111	±	29.113
V	< LOD	:	46.598
Ti	< LOD	:	192.690
Ca	15522.063	±	366.525
K	3419.579	±	221.209
Al	1704.230	±	692.668
P	22985.875	±	513.309
Si	7862.581	±	475.496
Cl	2435.742	±	66.275
S	25024.648	±	512.056
Mg	< LOD	:	11309.659

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XL3t-69288

Reading No 9
Mode Precious Metals
Time 2014-07-29 18:02
Duration 30.36
Units %
Sigma Value 2
Sequence Final
Flags AuDIT Disabled
INV NR GNM Gm 989
OBJEKT Anbetung
MATERIAL Holz bemalt Metall
ANALYSESTELLE P8 Pelikanpokal
MESSAUFBAU STATIV
FILTER 30
User Login Stein



	%	±	Error
Sn	2.149	±	0.048
Cd	0.257	±	0.027
Ag	0.074	±	0.027
Nb	< LOD	:	0.014
Au	5.355	±	0.070
Se	< LOD	:	0.114
Pb	63.582	±	0.234
Zn	0.069	±	0.012
Cu	0.942	±	0.033
Ni	< LOD	:	0.042
Co	< LOD	:	0.065
Fe	9.946	±	0.119
Mn	< LOD	:	0.072
Cr	< LOD	:	0.082
Ti	< LOD	:	0.254
In	0.119	±	0.024
Pd	0.167	±	0.020
Rh	0.231	±	0.020
Ru	0.036	±	0.009
Mo	0.012	±	0.005
Pt	5.403	±	0.136
Ir	11.656	±	0.204
Ga	< LOD	:	0.202

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