

Appendix 21 Statistics of auger geochemical survey histogram, EDA
and cumulative frequency of each elements in Block B

***** Base Statistics *****

File: auger_b.dat

----- Geological Code(Ncd:1) -----

1:

----- Elements(Nel:18) -----

1:Au	2:Ag	3:Cu	4:Pb	5:Zn
6:Fe	7:As	8:Sb	9:Hg	10:Bi
11:Cd	12:Co	13:Ni	14:V	15:Mn
16:Mo	17:K	18:W		

Number of datas : 621 (621)

===== Base Statistics =====

Elements	Mean	Var.	S.D.	Min	Max	Mean+2SD
Au	21.330	0.209*	0.457*	0.500	2443.000	175.374 (LOG)
Ag	0.106	0.016*	0.126*	0.100	1.200	0.189 (LOG)
Cu	11.924	0.188*	0.434*	0.500	85.000	87.802 (LOG)
Pb	15.399	0.104*	0.323*	2.000	482.000	68.041 (LOG)
Zn	14.278	0.049*	0.221*	4.000	125.000	39.438 (LOG)
Fe	2.433	0.078*	0.279*	0.160	10.000	8.785 (LOG)
As	2.899	0.032*	0.180*	2.500	29.000	6.647 (LOG)
Sb	1.022	0.005*	0.070*	1.000	5.000	1.413 (LOG)
Hg	0.047	0.148*	0.385*	0.005	0.190	0.278 (LOG)
Bi	0.758	0.108*	0.328*	0.500	62.000	3.435 (LOG)
Cd	0.116	0.022*	0.147*	0.100	0.400	0.229 (LOG)
Co	1.553	0.099*	0.315*	0.500	36.000	6.617 (LOG)
Ni	2.782	0.116*	0.341*	0.500	19.000	13.368 (LOG)
V	36.974	0.134*	0.366*	1.000	442.000	199.541 (LOG)
Mn	77.471	0.205*	0.453*	9.000	4860.000	622.918 (LOG)
Mo	2.179	0.312*	0.558*	0.500	65.000	28.498 (LOG)
K	0.042	0.073*	0.271*	0.005	0.410	0.147 (LOG)
W	10.000	0.000*	0.000*	10.000	10.000	10.000 (LOG)

*:LOG

==== Detection Limit =====

Elements	B.D.L	A.D.L (%)
Au	0.644	0.000
Ag	95.974	0.000
Cu	0.483	0.000
Pb	0.000	0.000
Zn	0.000	0.000
Fe	0.000	0.000
As	87.440	0.000
Sb	98.068	0.000
Hg	4.509	0.000
Bi	74.396	0.000
Cd	82.931	0.000
Co	17.391	0.000
Ni	8.213	0.000
V	0.000	0.000
Mn	0.000	0.000
Mo	27.858	0.000
K	0.805	0.000
W	100.000	0.000

==== Correlation Matrix =====

	Au	Ag	Cu	Pb	Zn	Fe	As	Sb	Hg	Bi	Cd	Co
Au	1.000											
Ag	0.018	1.000										
Cu	0.260	-0.012	1.000									
Pb	-0.008	0.144	0.130	1.000								
Zn	0.026	0.113	0.100	0.560	1.000							
Fe	0.222	0.067	0.351	0.184	0.318	1.000						
As	0.199	0.232	0.074	0.229	0.269	0.438	1.000					
Sb	-0.005	-0.026	-0.057	-0.009	0.000	-0.169	-0.022	1.000				
Hg	0.391	0.032	0.334	-0.159	0.149	0.455	0.185	-0.032	1.000			
Bi	0.245	0.032	0.341	0.152	-0.001	0.083	0.123	0.003	0.183	1.000		
Cd	0.116	0.079	0.400	0.117	0.036	0.197	0.081	-0.060	0.202	0.143	1.000	
Co	0.002	0.081	0.499	0.564	0.483	0.508	0.114	-0.154	0.209	0.106	0.287	1.000
Ni	-0.082	-0.152	0.560	0.124	0.070	0.086	-0.158	-0.138	0.097	0.118	0.389	0.465
V	0.211	0.081	0.423	0.139	0.308	0.930	0.409	-0.174	0.495	0.070	0.181	0.547
Mn	0.042	0.134	0.064	0.640	0.570	0.288	0.240	-0.018	0.090	0.094	0.036	0.601
Mo	0.203	0.095	0.740	0.040	-0.107	0.256	0.226	-0.082	0.175	0.357	0.335	0.240
K	-0.092	-0.017	-0.334	0.187	0.253	-0.232	-0.043	0.014	-0.211	-0.210	-0.087	-0.106
W	? .000	? .000	? .000	? .000	? .000	? .000	? .000	? .000	? .000	? .000	? .000	? .000

	Ni	V	Mn	Mo	K	W
Ni	1.000					
V	0.164	1.000				
Mn	0.037	0.260	1.000			
Mo	0.371	0.284	-0.098	1.000		
K	-0.150	-0.380	0.188	-0.296	1.000	
W	? .000	? .000	? .000	? .000	? .000	1.000

===== EDA Analysis =====

Elements	L.Fence	L.Wisker	L.Hinge	Median	U.Hinge	U.Wisker	U.Fence
Au	2.216	9.000	12.000	22.000	37.000	44.000	200.324
Ag	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Cu	0.665	5.000	6.000	12.000	26.000	34.000	234.534
Pb	2.203	8.000	9.000	14.000	23.000	28.000	93.963
Zn	3.818	9.000	10.000	14.000	19.000	21.000	49.760
Fe	0.552	1.470	1.660	2.510	3.460	3.810	10.412
As	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Sb	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Hg	0.005	0.020	0.030	0.060	0.100	0.110	0.609
Bi	0.177	0.500	0.500	0.500	1.000	2.000	2.828
Cd	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Co	0.354	1.000	1.000	2.000	2.000	3.000	5.657
Ni	0.506	1.000	2.000	3.000	5.000	6.000	19.764
V	6.557	19.000	24.000	40.000	57.000	64.000	208.627
Mn	5.368	29.000	37.000	70.000	134.000	182.000	923.548
Mo	0.012	0.500	0.500	2.000	6.000	7.000	249.415
K	0.011	0.030	0.030	0.040	0.060	0.070	0.170
W	10.000	10.000	10.000	10.000	10.000	10.000	10.000

***** Factor Analysis *****

File: auger_b.dat

----- Geological Code(Ncd:1) -----

1:

----- Elements(Nel:17) -----

1:Au	2:Ag	3:Cu	4:Pb	5:Zn
6:Fe	7:As	8:Sb	9:Hg	10:Bi
11:Cd	12:Co	13:Ni	14:V	15:Mn
16:Mo	17:K			

Number of datas : 621 (621)

===== Eigen Value =====

Trace(Max. of Correlation Coefficient): 9.217

Number of factors : 6

N fact	EigenValue	%	Cum%
1	4.117	44.671	44.671
2	2.173	23.571	68.243
3	1.457	15.809	84.052
4	0.852	9.239	93.291
5	0.525	5.700	98.991
6	0.335	3.637	102.628

===== Factor Loading =====

(before rotation)

Elements	1	2	3	4	5	6	Comm.
Au	0.279	-0.181	0.232	0.358	0.319	-0.023	0.394
Ag	0.126	0.131	0.088	0.243	-0.232	-0.135	0.172
Cu	0.692	-0.436	-0.333	0.062	0.062	0.038	0.789
Pb	0.413	0.603	-0.337	0.183	-0.109	0.089	0.700
Zn	0.432	0.605	-0.050	0.027	0.136	-0.078	0.580
Fe	0.796	0.050	0.467	-0.208	-0.095	-0.033	0.908
As	0.394	0.160	0.331	0.324	-0.224	-0.122	0.460
Sb	-0.151	0.030	-0.001	0.164	0.096	0.101	0.070
Hg	0.470	-0.214	0.321	0.028	0.392	-0.078	0.531
Bi	0.291	-0.203	-0.123	0.386	0.080	0.226	0.347
Cd	0.389	-0.205	-0.248	0.020	0.040	-0.326	0.363
Co	0.731	0.268	-0.284	-0.205	0.012	0.067	0.734
Ni	0.397	-0.250	-0.546	-0.300	0.071	-0.069	0.618
V	0.826	-0.032	0.441	-0.275	-0.095	0.071	0.968
Mn	0.449	0.652	-0.120	0.091	0.102	0.114	0.673
Mo	0.522	-0.528	-0.239	0.280	-0.257	-0.049	0.756
K	-0.265	0.454	-0.128	0.078	0.118	-0.286	0.394

==== Factor Loading ====
 (after rotation Varimax)

Elements	1	2	3	4	5	6	Comm.
Au	0.023	-0.007	0.026	0.127	0.583	0.193	0.394
Ag	0.003	0.093	0.016	0.403	-0.011	0.014	0.172
Cu	0.649	0.105	0.224	-0.060	0.215	0.507	0.789
Pb	0.096	0.784	-0.043	0.208	-0.147	0.102	0.700
Zn	0.036	0.708	0.130	0.124	0.123	-0.172	0.580
Fe	0.110	0.237	0.846	0.222	0.270	0.046	0.908
As	-0.046	0.178	0.255	0.563	0.194	0.080	0.460
Sb	-0.154	-0.002	-0.195	-0.018	0.066	0.062	0.070
Hg	0.136	0.009	0.348	-0.039	0.621	0.063	0.531
Bi	0.116	0.094	-0.086	0.079	0.241	0.503	0.347
Cd	0.572	0.051	0.062	0.082	0.145	0.030	0.363
Co	0.390	0.642	0.382	-0.072	-0.024	0.136	0.734
Ni	0.670	0.135	0.111	-0.325	-0.102	0.153	0.618
Y	0.123	0.207	0.904	0.124	0.240	0.141	0.968
Mn	-0.041	0.806	0.092	0.096	0.059	-0.006	0.673
Mo	0.577	-0.127	0.124	0.275	0.077	0.557	0.756
K	-0.074	0.249	-0.358	0.083	-0.047	-0.436	0.394

N fact	Contribution	%	Cum%
1	1.786	19.373	19.373
2	2.437	26.436	45.810
3	2.148	23.300	69.110
4	0.840	9.112	78.222
5	1.083	11.747	89.969
6	1.167	12.659	102.628

==== Factor Score =====

Elements	<Weight>					
	1	2	3	4	5	6
Au	-0.039	0.001	-0.106	0.021	0.343	0.031
Ag	0.034	-0.013	0.000	0.224	-0.029	-0.040
Cu	0.263	0.076	-0.094	-0.273	0.220	0.270
Pb	-0.036	0.331	-0.084	0.148	-0.165	0.190
Zn	0.051	0.223	-0.100	0.085	0.120	-0.197
Fe	0.169	0.009	0.160	0.381	0.230	-0.470
As	-0.002	0.001	-0.084	0.310	0.051	-0.011
Sb	-0.072	0.015	-0.013	-0.020	0.042	0.063
Hg	0.040	0.001	-0.091	-0.075	0.421	-0.065
Bi	-0.109	0.040	-0.036	-0.039	0.102	0.281
Cd	0.268	-0.035	-0.042	0.095	0.074	-0.161
Co	0.157	0.172	-0.041	-0.155	-0.153	-0.040
Ni	0.316	0.029	0.056	-0.230	-0.098	-0.125
Y	-0.374	-0.067	0.997	-0.297	-0.250	0.407
Mn	-0.117	0.347	-0.047	-0.014	0.080	0.087
Mo	0.248	-0.161	-0.066	0.492	-0.172	0.308
K	0.071	0.048	0.017	0.019	0.038	-0.202

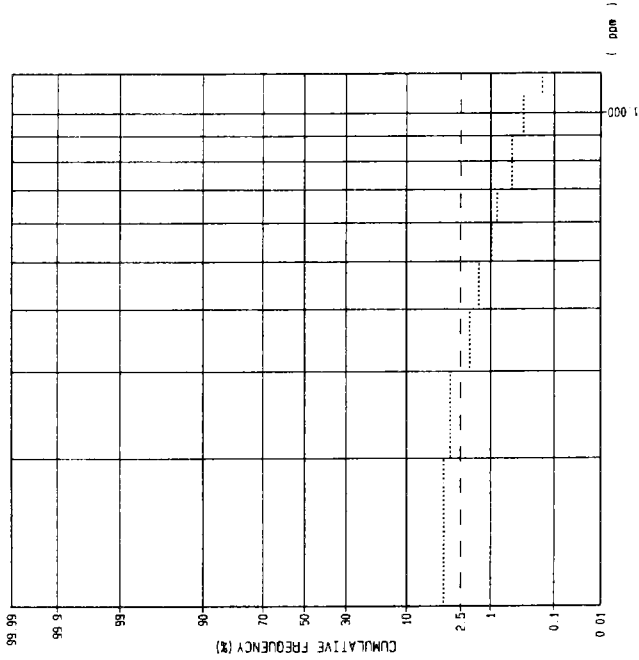
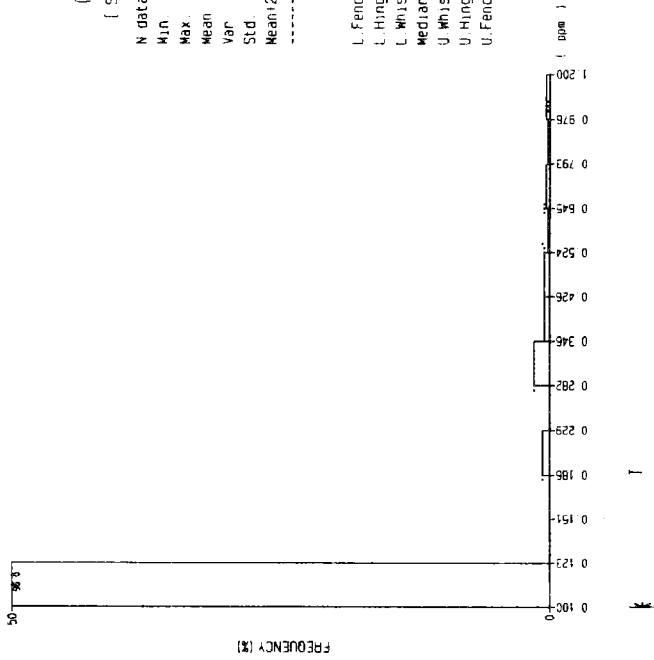
Ag

(ppm)
[Statistics]

N data = 621
Min. = 0.100
Max. = 1.200
Mean = 0.196
Var. = 0.016 (log10)
Std. = 0.126 (log10)
Mean±2SD = 0.189

[EDA]

L.Fence = 0.100
L.Hinge = 0.100
L.Whisker = 0.100
Median = 0.100
U.Whisker = 0.100
U.Hinge = 0.100
U.Fence = 0.100



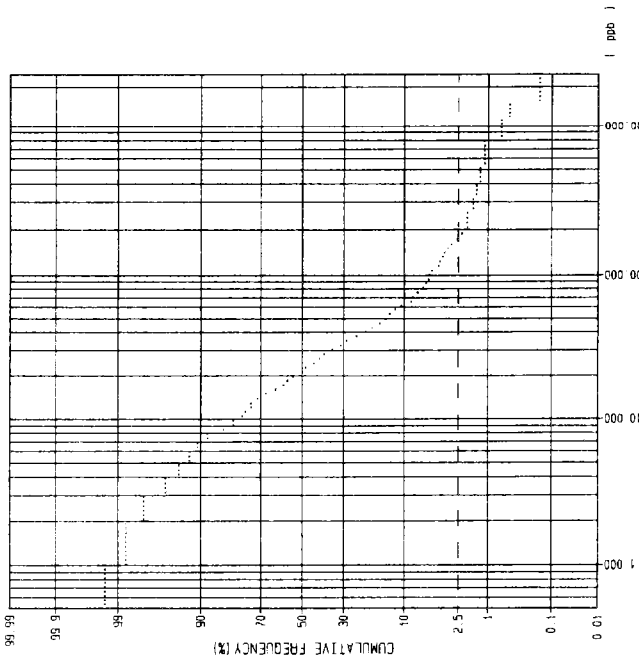
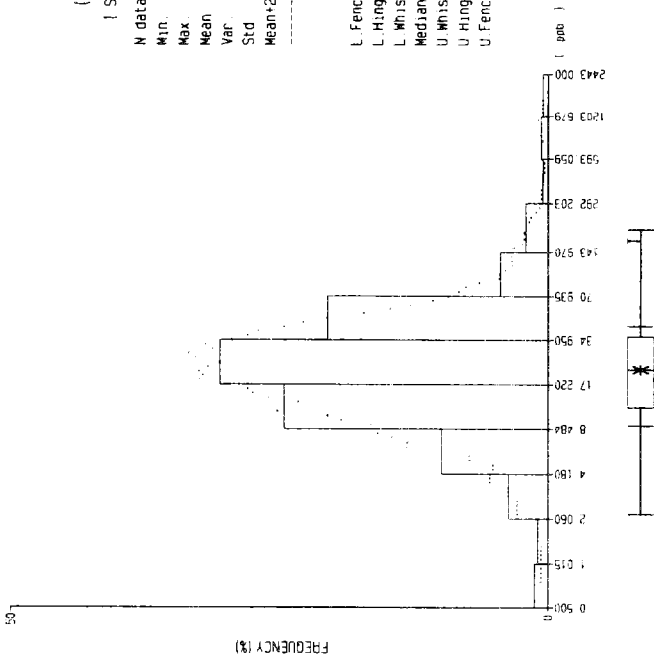
AU

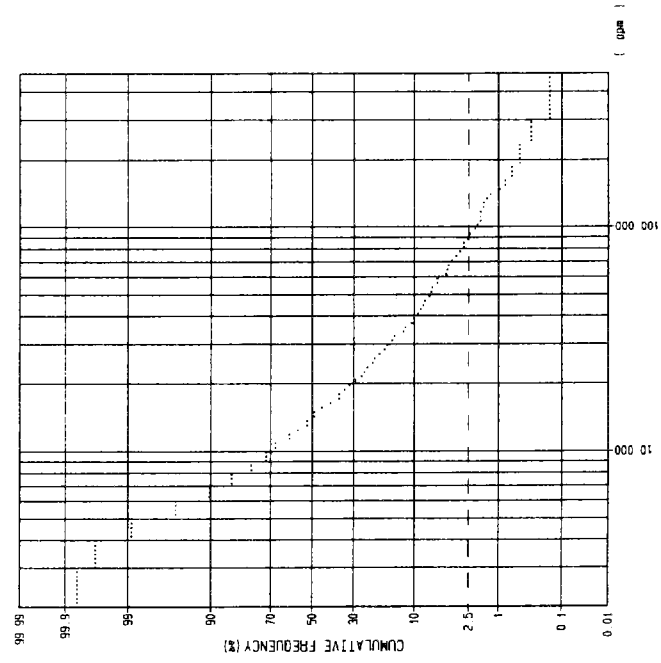
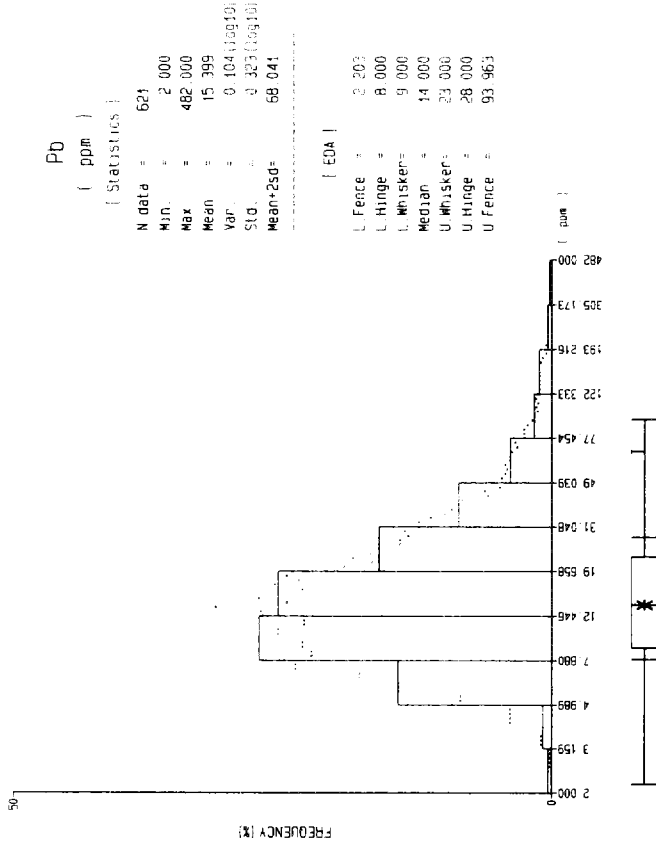
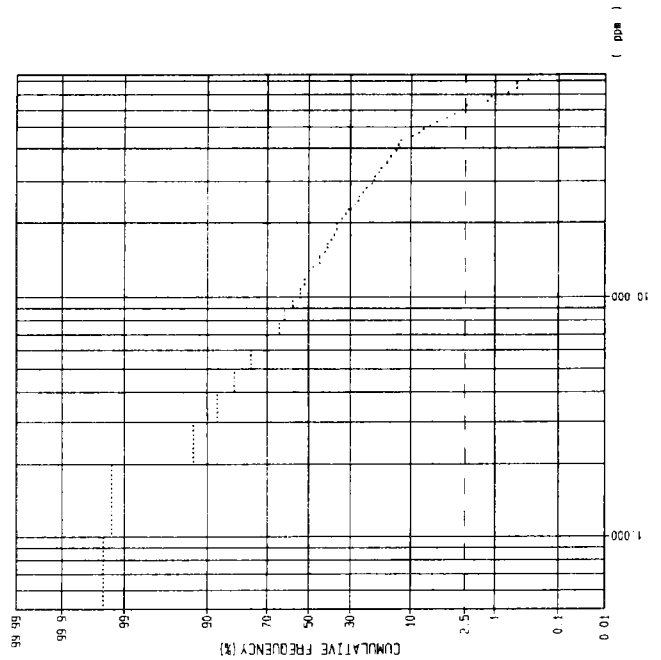
(ppb)
[Statistics]

N data = 621
Min. = 0.500
Max. = 2443.000
Mean = 21.330
Var. = 0.209 (log10)
Std. = 0.457 (log10)
Mean±2SD = 175.374

[EDA]

L.Fence = 2.216
L.Hinge = 9.000
L.Whisker = 32.000
Median = 22.000
U.Whisker = 37.000
U.Hinge = 44.000
U.Fence = 200.324





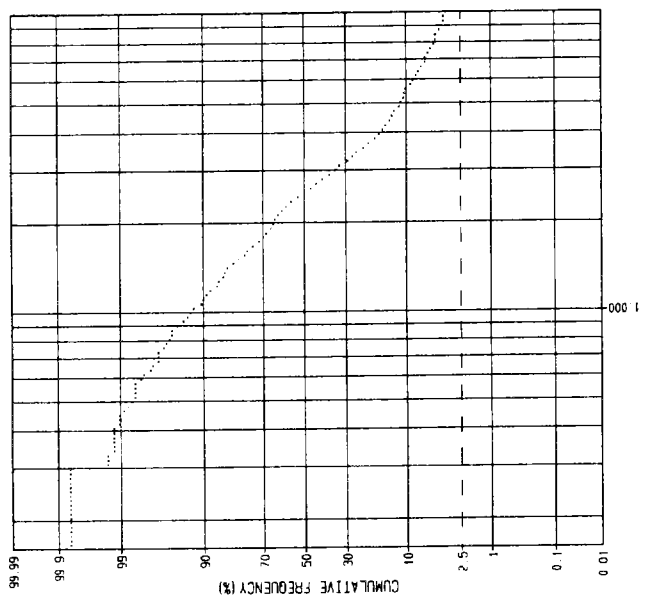
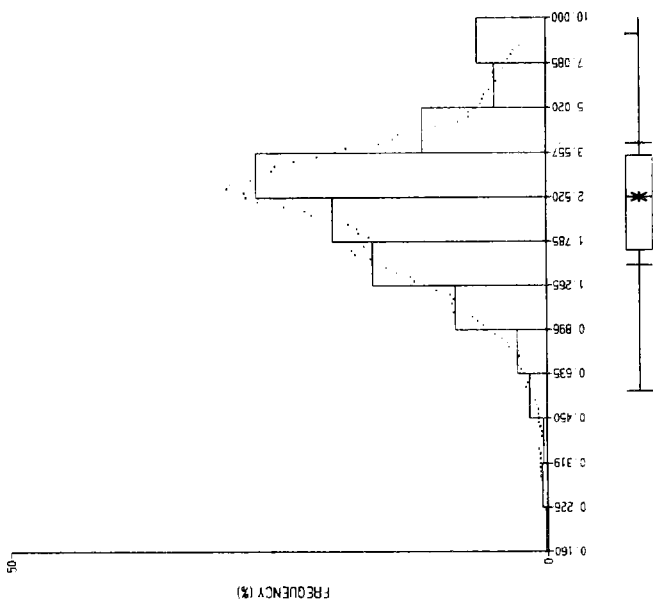
Fe
(%)

[Statistics]

N data = 621
 Min. = 0.160
 Max. = 10.000
 Mean = 2.433
 Var = 0.078 (log10)
 Std = 0.279 (log10)
 Mean±2SD = 8.765

[EDA]

L.Fence = 0.552
 L.Hinge = 1.470
 L.Whisker = 1.660
 Median = 2.510
 U.Whisker = 3.460
 U.Hinge = 3.810
 U.Fence = 10.412



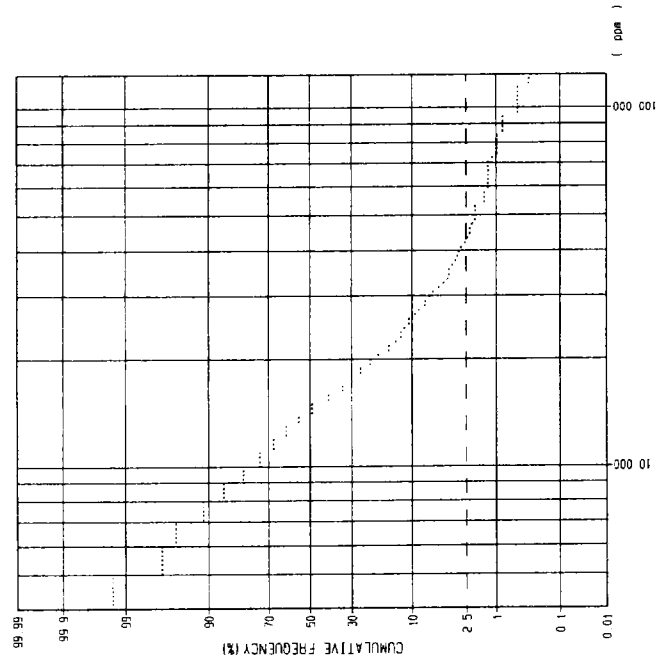
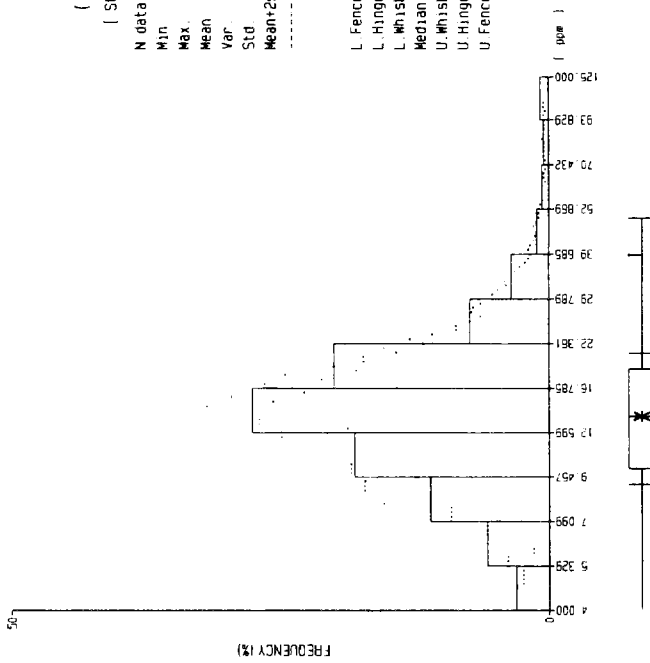
Zn
(ppm)

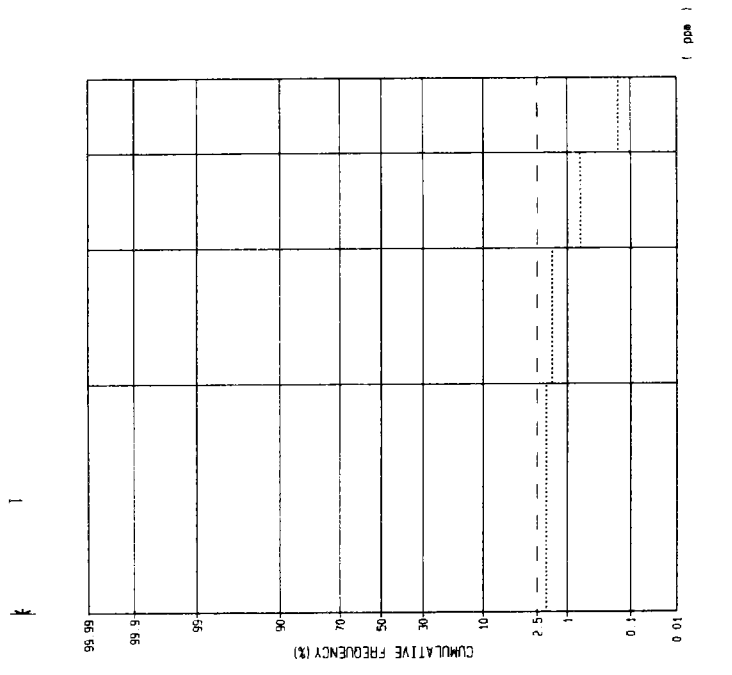
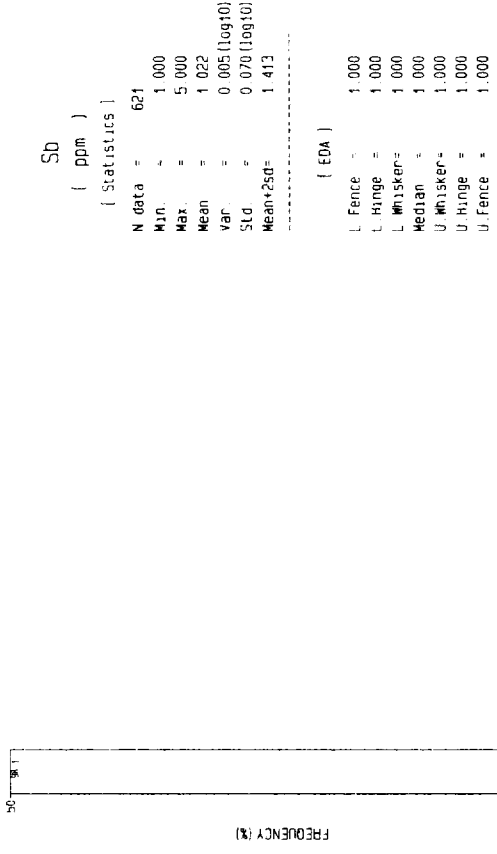
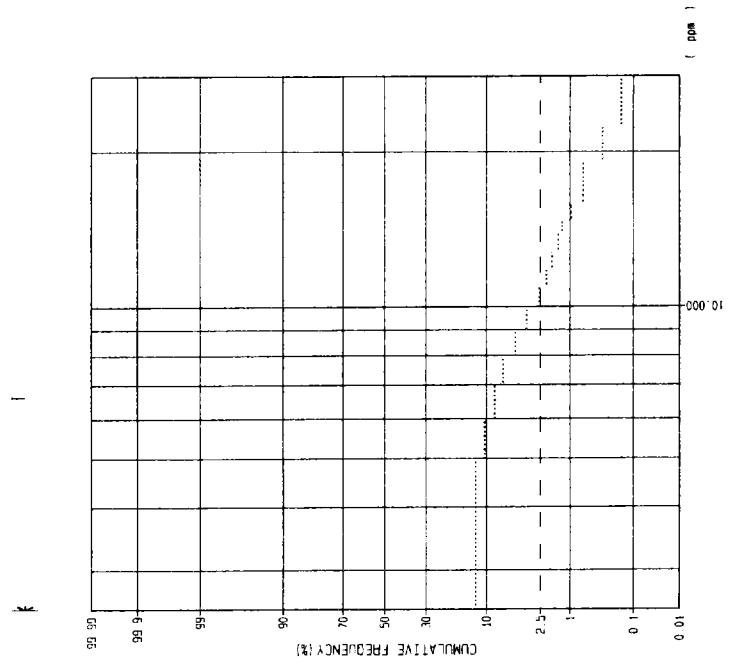
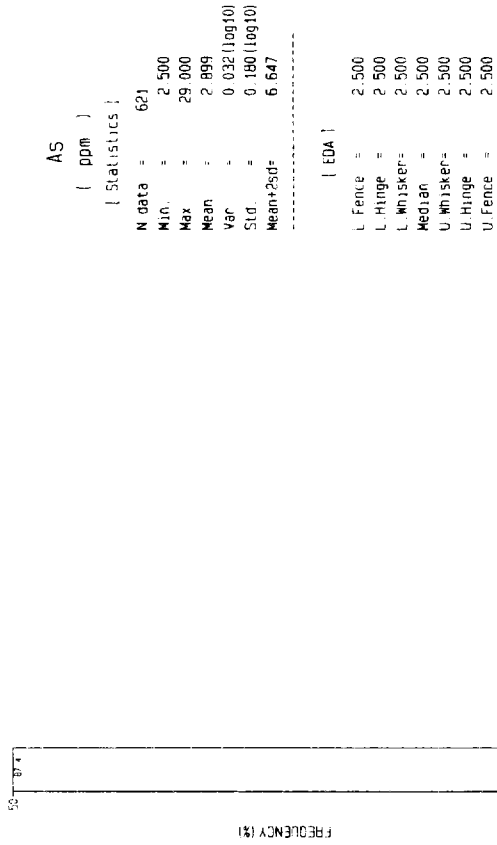
[Statistics]

N data = 621
 Min. = 4.000
 Max. = 125.000
 Mean = 14.278
 Var = 0.049 (log10)
 Std = 0.221 (log10)
 Mean±2SD = 39.436

[EDA]

L.Fence = 3.818
 L.Hinge = 9.000
 L.Whisker = 10.000
 Median = 14.000
 U.Whisker = 19.000
 U.Hinge = 21.000
 U.Fence = 49.760





Hg

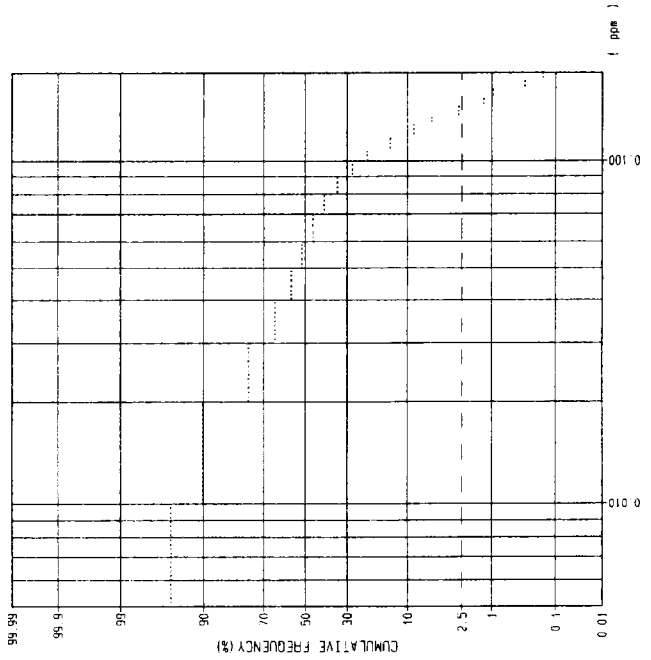
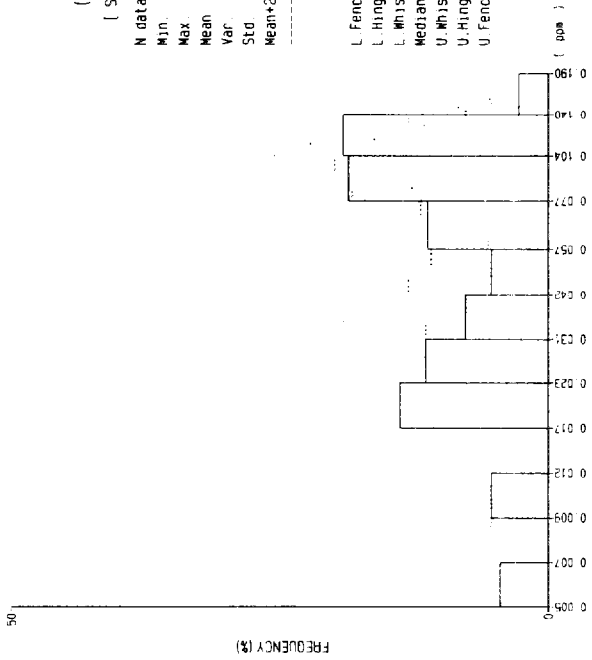
(ppm)

[Statistics]

N data = 621
 Min. = 0.005
 Max. = 0.190
 Mean = 0.047
 Var. = 0.148 (log10)
 Std. = 0.385 (log10)
 Mean+2sd = 0.278

[EDA]

L. Fence = 0.005
 L. Hinge = 0.020
 L. Whisker = 0.030
 Median = 0.060
 U. Whisker = 0.100
 U. Hinge = 0.110
 U. Fence = 0.609



B1

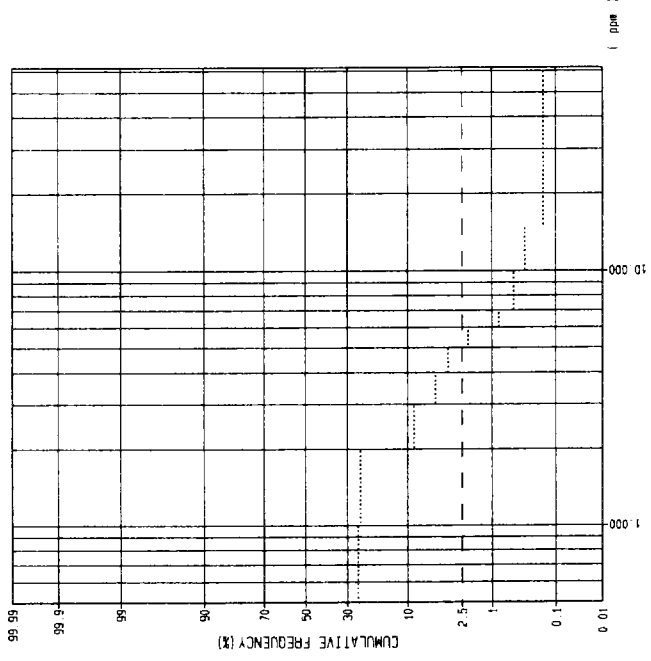
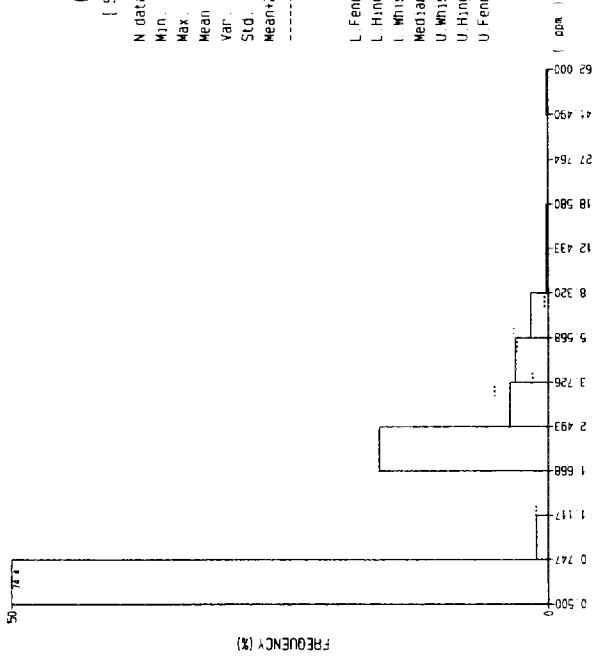
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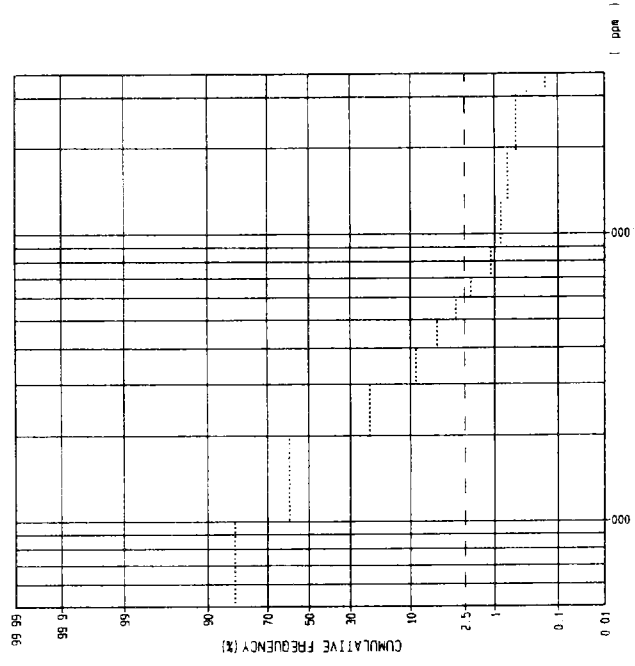
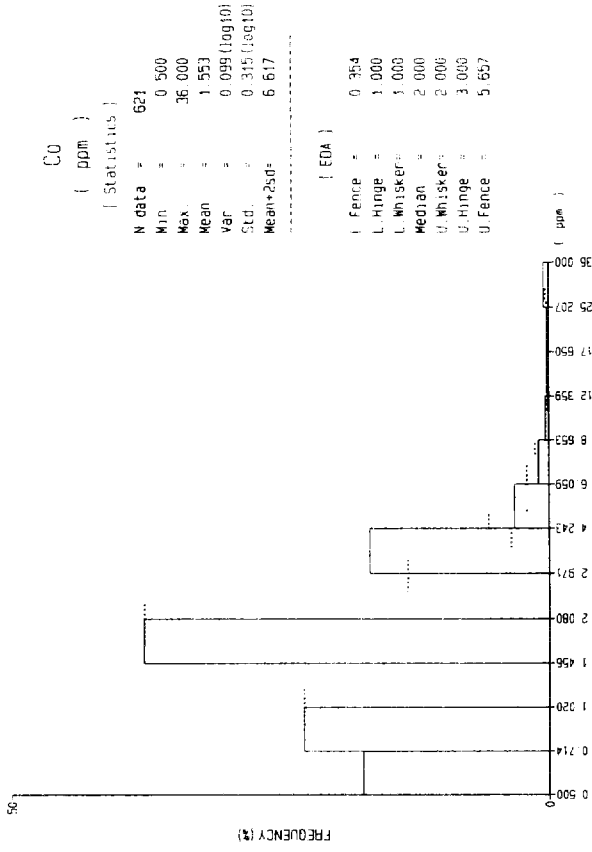
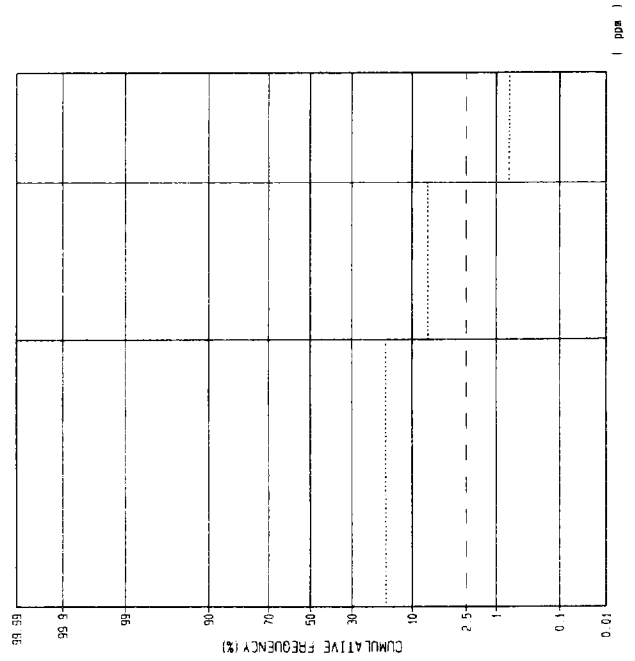
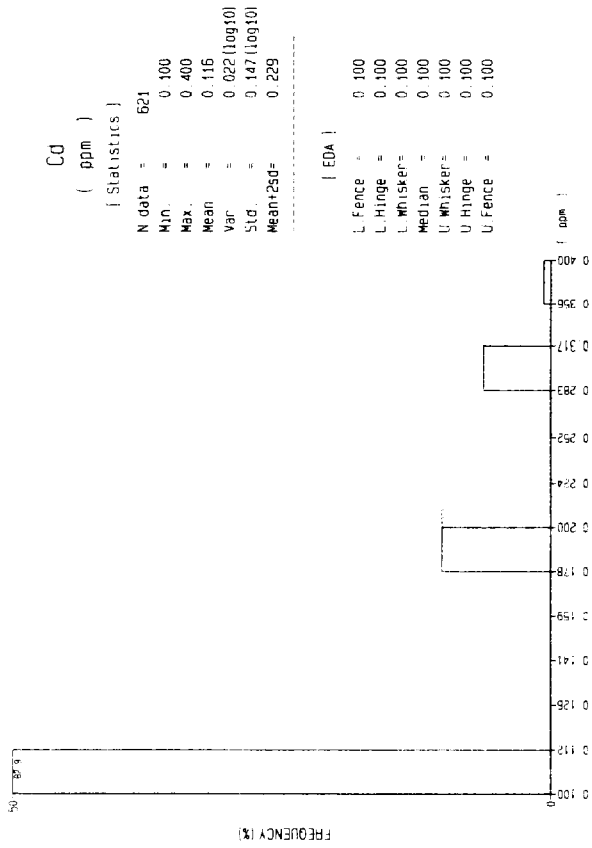
[Statistics]

N data = 621
 Min. = 0.500
 Max. = 62.000
 Mean = 0.758
 Var. = 0.108 (log10)
 Std. = 0.328 (log10)
 Mean+2sd = 3.435

[EDA]

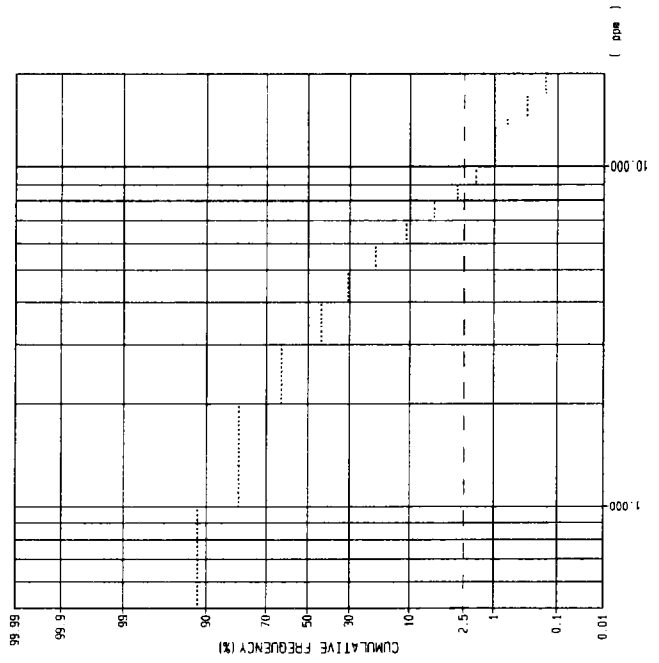
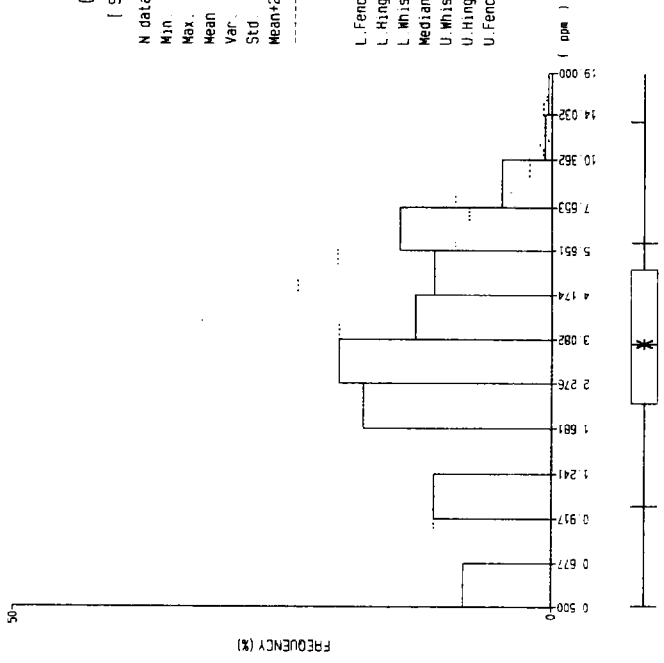
L. Fence = 0.177
 L. Hinge = 0.500
 L. Whisker = 0.500
 Median = 0.500
 U. Whisker = 1.000
 U. Hinge = 2.000
 U. Fence = 2.828





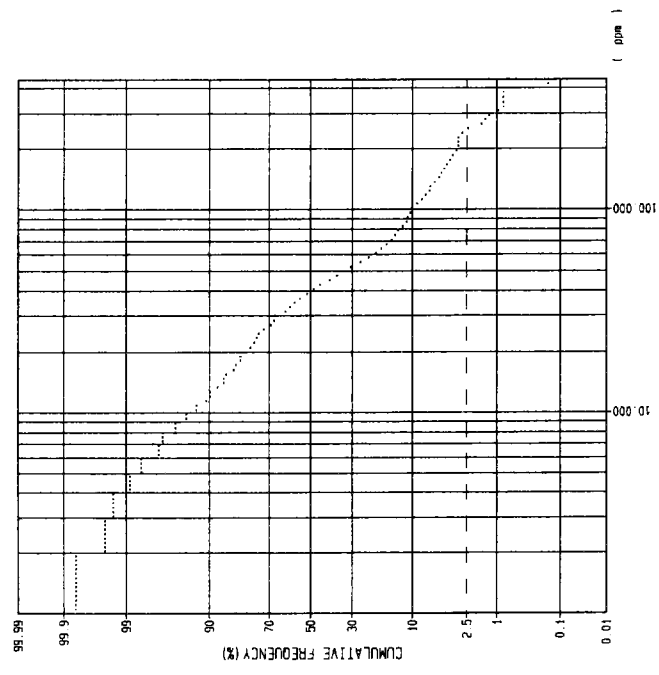
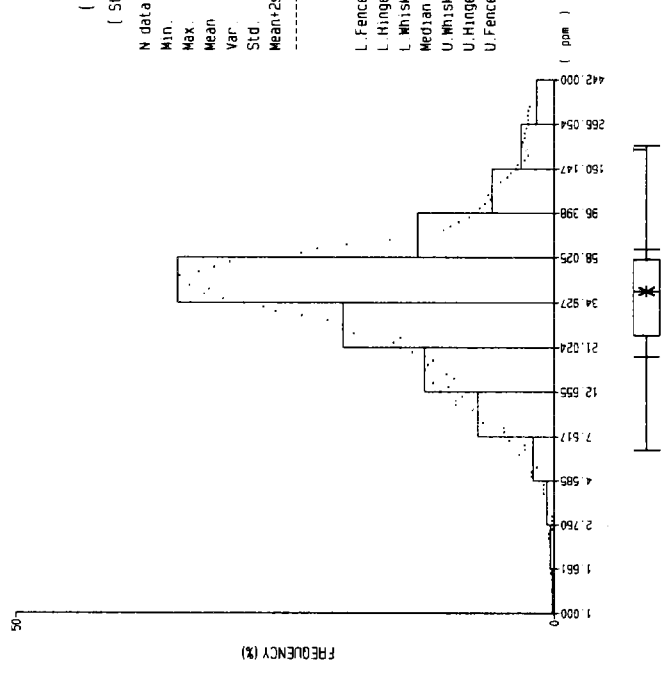
N1
(ppm)
[Statistics]
N data = 621
Min. = 0.500
Max. = 19.000
Mean = 2.782
Var. = 0.116 (log10)
Std. = 0.341 (log10)
Mean±2sd= 13.368

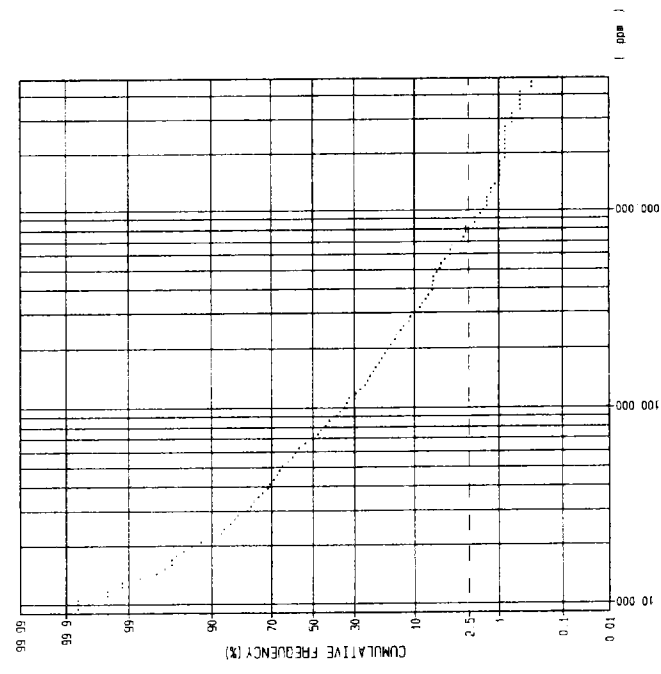
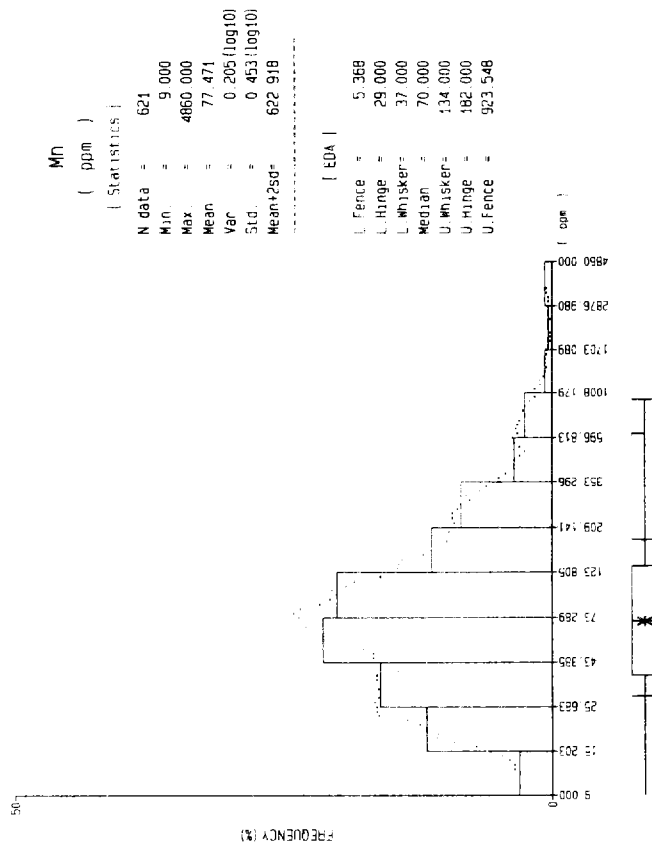
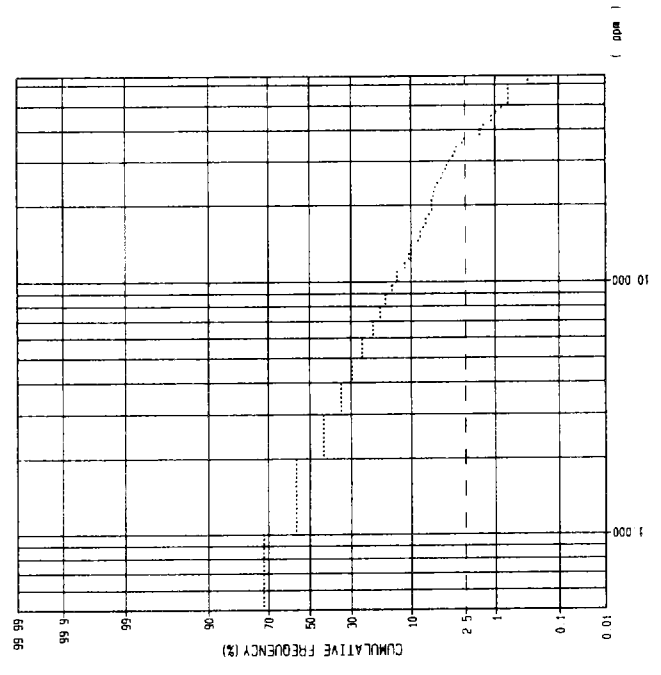
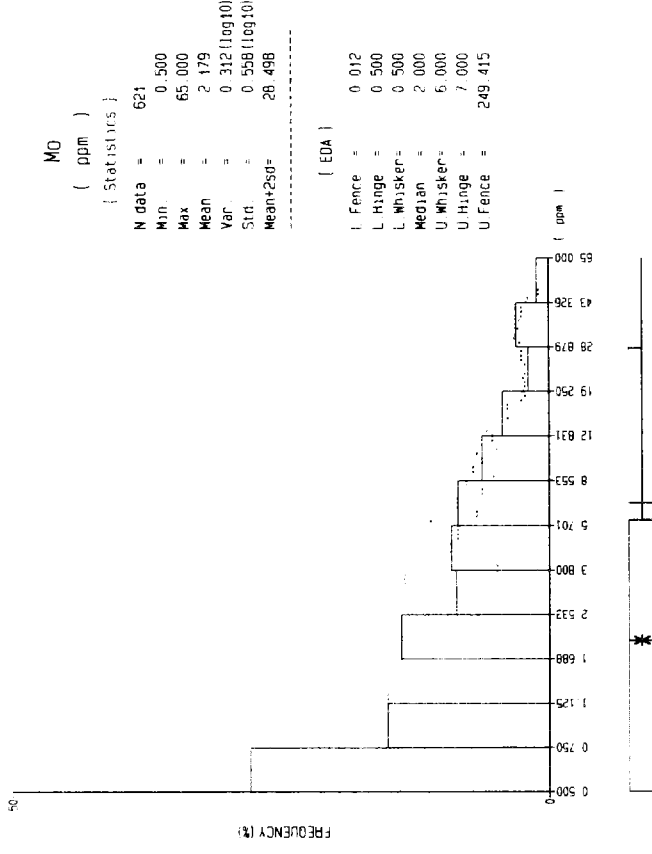
[EDA]
L.Fence = 0.506
L.Hinge = 1.000
L.Whisker= 2.000
Median = 3.000
U.Whisker= 5.000
U.Hinge = 6.000
U.Fence = 19.764



V
(ppm)
[Statistics]
N data = 621
Min. = 1.000
Max. = 442.000
Mean = 36.974
Var. = 0.134 (log10)
Std. = 0.366 (log10)
Mean±2sd= 199.541

[EDA]
L.Fence = 6.557
L.Hinge = 19.000
L.Whisker= 24.000
Median = 40.000
U.Whisker= 57.000
U.Hinge = 64.000
U.Fence = 208.627



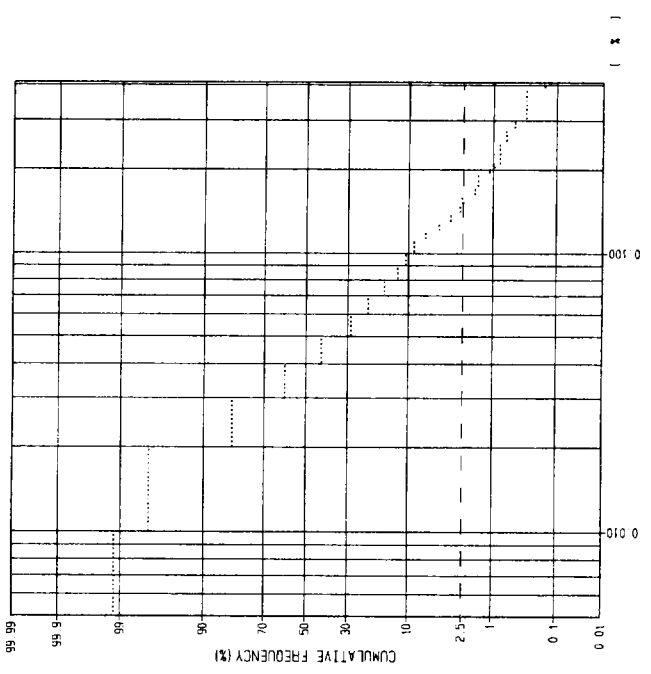
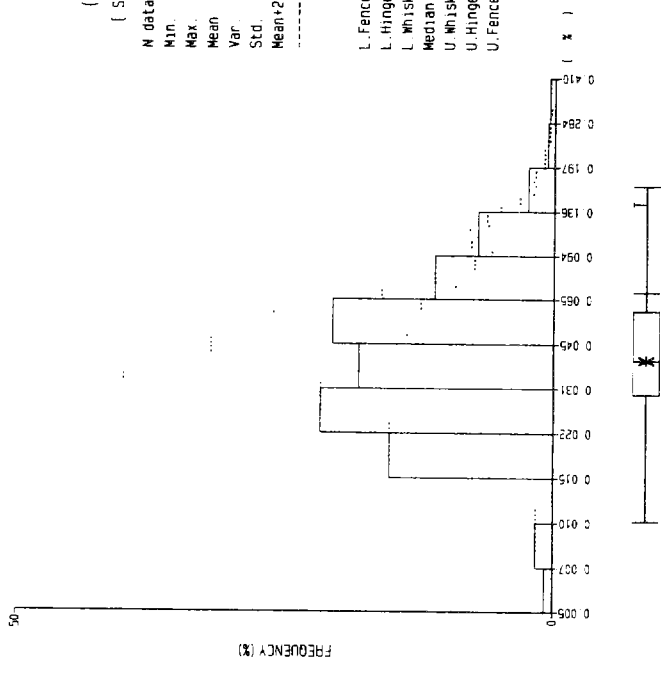


K
(%)
{ Statistics }

N data = 621
 Min. = 0.005
 Max. = 0.410
 Mean = 0.042
 Var. = 0.073 (log10)
 Std. = 0.271 (log10)
 Mean+2sd = 0.147

{ EDA }

L.Fence = 0.011
 L.Hinge = 0.030
 L.Whisker = 0.030
 Median = 0.040
 U.Whisker = 0.060
 U.Hinge = 0.070
 U.Fence = 0.170



W
(ppm)
{ Statistics }

N data = 621
 Min. = 10.000
 Max. = 10.000
 Mean = 10.000
 Var. = 0.000 (log10)
 Std. = 0.000 (log10)
 Mean+2sd = 10.000

{ EDA }

L.Fence = 10.000
 L.Hinge = 10.000
 L.Whisker = 10.000
 Median = 10.000
 U.Whisker = 10.000
 U.Hinge = 10.000
 U.Fence = 10.000

