

## 9 APPENDIX 1

Appendix 1-1: The obtained data from Acropolis with Magnetic Susceptibility.

sonda	category	Mass[g]	F1 KRe[S	F3 KRe[S	$\chi \times 10^{-8} \text{ m}^3/\text{kg}$	kFD13	F1-F3/m	Al	Si	P	K	Ca	Mn	Fe	Ni	Cu	Zn	Sr	Pb
38	acropolis	38.134	0.00252	0.00231	66.082761	8.45238	0.55856	6.14667	27.2533	0.252	2.09353	0.53813	0.07507	2.85083	0.00363	0.0053	0.01107	0.01173	0.00397
39	acropolis	28.6119	0.00157	0.00144	54.732471	8.3014	0.45436	6.68667	25.0233	0.17613	2.08627	1.56377	0.0591	3.44543	0.00367	0.00473	0.0091	0.0108	0.00287
40	acropolis	47.0257	0.00245	0.00225	52.120436	8.24153	0.42955	7.33667	27.99	0.2029	2.25813	0.4391	0.05277	3.60633	0.00473	0.00533	0.0102	0.01147	0.0031
41	acropolis	32.1716	0.00224	0.00205	69.595544	8.61992	0.59991	6.25667	28.3367	0.26457	2.11667	0.5379	0.06353	2.99623	0.0029	0.0047	0.01007	0.01213	0.0031
42	acropolis	43.83	0.00362	0.00331	82.523386	8.46005	0.69815	6.38	29.04	0.3036	2.12823	0.47637	0.0814	2.88543	0.003	0.00587	0.0111	0.01177	0.0035
43	acropolis	44.5166	0.00346	0.00316	77.633961	8.44907	0.65594	5.79333	28.1567	0.28437	2.11237	0.62847	0.0731	2.56687	0.0039	0.00493	0.01247	0.0121	0.0041
44	acropolis	46.4129	0.00298	0.00277	69.008783	8.1941	0.56547	6.99333	28.22	0.2353	2.1967	0.5032	0.05223	3.1561	0.0032	0.00493	0.01003	0.012	0.0031
45	acropolis	48.0979	0.0035	0.00326	78.569191	7.97586	0.62666	6.54333	28.72	0.27833	2.23677	0.5193	0.0605	2.92203	0.0029	0.0052	0.0107	0.01163	0.0036
46	acropolis	33.3236	0.00268	0.00246	80.51351	8.1625	0.65719	6.56333	30.2767	0.25433	2.13297	0.43083	0.07983	2.98463	0.00387	0.00533	0.0098	0.01237	0.0034
47	acropolis	46.5517	0.0031	0.00286	69.608923	8.66716	0.60331	6.78	28.9267	0.25117	2.18013	0.53817	0.06073	3.14243	0.0039	0.00507	0.01033	0.01233	0.00337
48	acropolis	13.167	0.00096	0.00087	72.696894	8.62934	0.62733	7.02333	28.49	0.23507	2.19537	0.74547	0.06303	3.18053	0.00333	0.00567	0.01013	0.01233	0.00333
49	acropolis	44.0713	0.00311	0.00285	70.658229	8.34939	0.58995	6.5	26.57	0.30657	2.09697	1.20547	0.07687	3.124	0.00307	0.00453	0.01087	0.01223	0.00347
50	acropolis	47.5116	0.00344	0.00315	72.466513	8.59715	0.62301	6.36	27.3767	0.30637	2.07077	0.92673	0.07603	2.9982	0.00317	0.00487	0.01107	0.0123	0.00327
51	acropolis	40.9743	0.00316	0.00291	77.170324	7.87476	0.6077	5.56333	26.3267	0.42617	2.0397	1.1012	0.07257	2.75287	0.00237	0.00563	0.0186	0.01233	0.00397
52	acropolis	10.8951	0.001	0.00094	92.151518	6.74303	0.62138	6.15333	29.2967	0.26107	1.99833	0.67507	0.07467	2.75417	0.0038	0.00517	0.01617	0.012	0.00467
53	acropolis	43.2653	0.00344	0.00315	79.393879	8.18049	0.64948	5.60667	28.2233	0.27433	2.0018	0.72037	0.0843	2.60993	0.0028	0.00537	0.01233	0.01217	0.0039
54	acropolis	44.998	0.00379	0.00348	84.225966	8.15303	0.6867	5.79	29.77	0.26877	1.9755	0.7185	0.0872	2.59173	0.00267	0.00597	0.01277	0.01227	0.0039
55	acropolis	43.5929	0.00335	0.00307	76.893256	8.35322	0.64231	5.65	28.1167	0.24207	2.0207	0.77973	0.08467	2.66903	0.0024	0.00463	0.01167	0.01227	0.00363
56	acropolis	38.1581	0.00278	0.00254	70.628537	9.07821	0.64118	5.89333	29.83	0.27133	2.00593	0.67933	0.07987	2.57013	0.00267	0.0049	0.0118	0.01183	0.0032
57	acropolis	42.5293	0.00344	0.00316	80.979466	8.3043	0.67248	5.93667	27.5033	0.27113	1.993	0.70423	0.07867	2.74923	0.00235	0.00517	0.0146	0.01167	0.00407
58	acropolis	23.4917	0.00205	0.00186	87.094591	9.18866	0.80028	6.39667	28.4333	0.31873	2.0218	0.75957	0.07753	2.95737	0.00307	0.00577	0.01483	0.01183	0.00357
59	acropolis	40.6	0.00332	0.00303	81.650246	8.50679	0.69458	6.26667	26.99	0.30197	1.98227	0.74657	0.0741	2.9101	0.00303	0.0055	0.0132	0.01167	0.00367
60	acropolis	38.7888	0.00269	0.00246	69.324135	8.66493	0.60069	6.13667	29.0467	0.2487	1.9091	0.68147	0.0741	2.5536	0.00333	0.0048	0.01127	0.01153	0.00347
61	acropolis	42.9536	0.00238	0.00218	55.47847	8.35082	0.46329	6.89333	28.45	0.12973	2.1164	0.34113	0.06283	2.96983	0.0031	0.0035	0.00823	0.01243	0.00307

Appendix 1-2: The obtained data from Control with Magnetic Susceptibility.

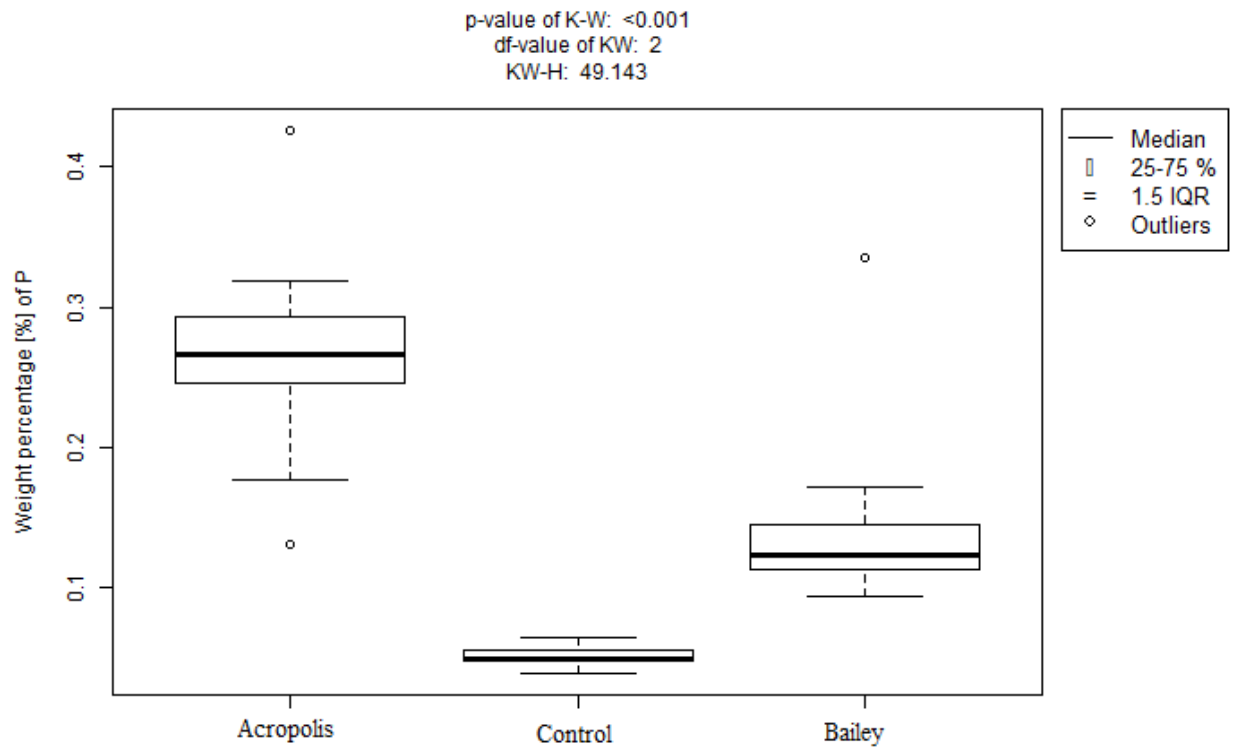
sonda	category	Mass[g]	F1 KRe[SI]	F3 KRe[SI]	$\chi$ [ $\times 10^{-8} \text{m}^3/\text{kg}$ ]	kFD13	F1-F3/m	Al	Si	P	K	Ca	Mn	Fe	Ni	Cu	Zn	Sr	Pb
1	control	42.9461	0.002393	0.002181	55.72100843	8.85917	0.49364	7	29.4667	0.04683	2.0669	0.3999	0.06647	3.03373	0.00313	0.0043	0.00747	0.01133	0.0026
2	control	47.3184	0.002732	0.002498	57.73652533	8.56515	0.49452	6.72	30.0833	0.06327	2.04977	0.41503	0.06423	2.91707	0.0038	0.00377	0.0078	0.0112	0.00293
3	control	38.1616	0.002156	0.001964	56.49658295	8.90538	0.50312	6.61	28.58	0.03917	1.98187	0.3963	0.06853	2.9802	0.00343	0.0043	0.0073	0.0115	0.0031
4	control	40.07	0.002285	0.00209	57.02520589	8.53392	0.48665	6.18667	28.1967	0.04853	1.98383	0.40657	0.06627	2.8676	0.00317	0.0044	0.00713	0.0114	0.00323
5	control	12.8225	0.000825	0.000746	64.34782609	9.58672	0.61688	6.05333	30.1967	0.0484	1.9118	0.3445	0.0637	2.61133	0.00323	0.00353	0.0076	0.01113	0.00317
6	control	42.7935	0.002188	0.002011	51.12926028	8.08958	0.41361	6.84	27.8233	0.03805	2.06347	0.35447	0.06743	3.08917	0.0033	0.00413	0.00737	0.01153	0.003
7	control	37.3616	0.002274	0.00208	60.86463107	8.53122	0.51925	6.89	29.01	0.05147	1.99967	0.30227	0.0717	2.9899	0.00323	0.00427	0.00753	0.01137	0.0031
8	control	36.5186	0.001891	0.00174	51.78183172	7.98519	0.41349	6.95	28.0767	0.06143	2.1564	0.33023	0.07113	3.1138	0.00353	0.0044	0.0081	0.0117	0.00267
9	control	39.6599	0.002451	0.00224	61.8004584	8.60873	0.53202	6.28667	31.0067	0.04673	1.96843	0.3012	0.07423	2.66987	0.0031	0.00337	0.00707	0.01107	0.0032
10	control	44.3578	0.002311	0.002123	52.09906713	8.13501	0.42383	7.14667	26.8033	0.04237	2.0693	0.3801	0.06237	3.21517	0.00367	0.00447	0.0076	0.01173	0.0031
11	control	44.0876	0.002325	0.00215	52.73591667	7.52688	0.39694	7.66333	29.2333	0.0458	2.10463	0.30937	0.06487	3.09987	0.0031	0.0046	0.00813	0.01187	0.00317
12	control	39.1999	0.001959	0.001794	49.97461728	8.42266	0.42092	7.08667	27.7867	0.0496	2.14133	0.35697	0.06197	3.0626	0.0037	0.00393	0.00797	0.0121	0.003
13	control	41.622	0.002208	0.002014	53.04886839	8.78623	0.4661	7.79333	28.4567	0.05497	2.1721	0.3125	0.0653	3.2034	0.0039	0.0048	0.0077	0.01177	0.003
14	control	38.2361	0.00189	0.001735	49.4297274	8.20106	0.40538	7.40667	27.7967	0.05687	2.15733	0.3789	0.0633	3.23267	0.0029	0.00447	0.0082	0.0122	0.00307
15	control	40.2376	0.002027	0.001885	50.37576794	7.00543	0.3529	7.55667	27.5533	0.05517	2.1187	0.72367	0.05617	3.21843	0.00397	0.00423	0.00813	0.0124	0.00293
16	control	44.3858	0.001906	0.001788	42.94166152	6.19098	0.26585	7.04	26.6533	0.0473	1.9805	1.84247	0.06003	3.14097	0.0037	0.00407	0.00783	0.01337	0.00317
17	control	45.0359	0.002276	0.002123	50.53746012	6.72232	0.33973	7.17333	27.6333	0.049	2.02407	0.87517	0.05763	3.0314	0.00337	0.00387	0.00723	0.0134	0.0032

Appendix 1-3: The obtained data from Bailey with Magnetic Susceptibility.

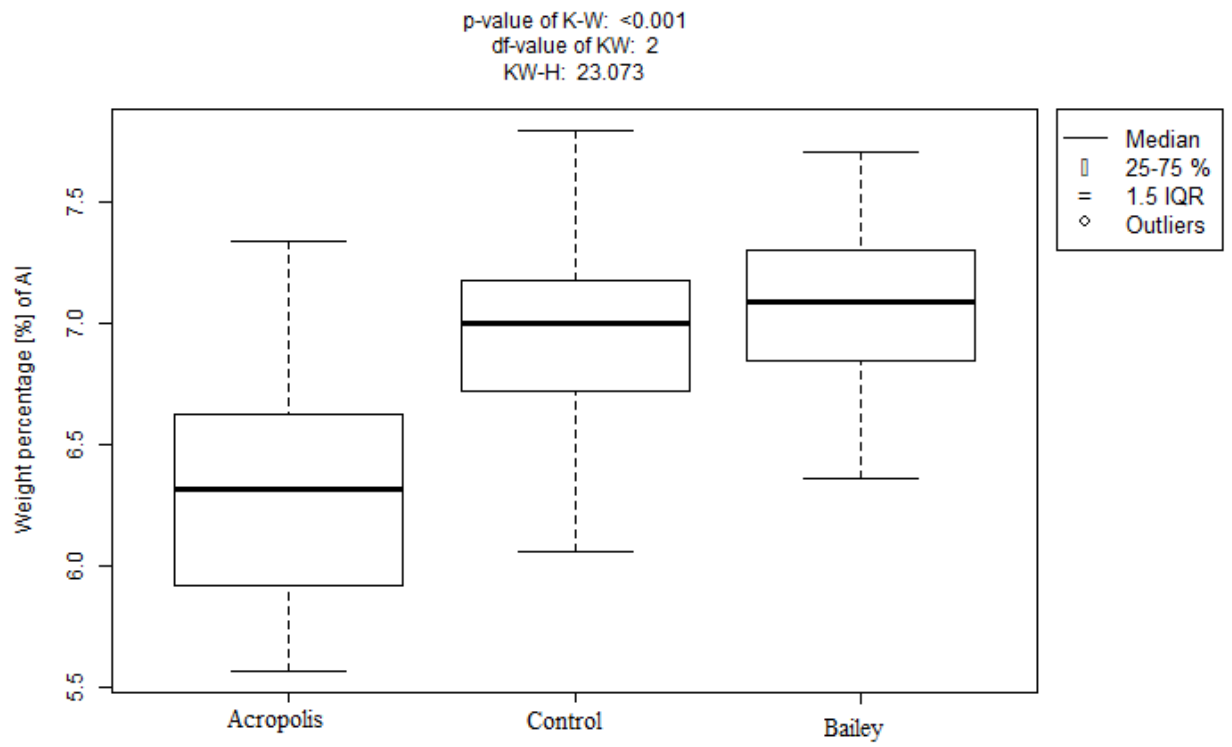
sonda	category	Mass[g]	F1 KRe[S	F3 KRe[S	$\chi \times 10^{-8} \text{ m}^3/\text{kg}$	kFD13	F1-F3/m	Al	Si	P	K	Ca	Mn	Fe	Ni	Cu	Zn	Sr	Pb
18	bailey	42.6044	0.00259	0.00239	60.83879	7.87037	0.47882	7.12	27.9133	0.1043	2.09853	0.33987	0.06593	2.97107	0.0035	0.00477	0.00793	0.01237	0.00307
19	bailey	12.17	0.00081	0.00074	66.68858	9.14243	0.6097	6.54333	27.3833	0.33543	2.01707	1.05963	0.0713	2.96343	0.00327	0.00477	0.0096	0.0128	0.0028
20	bailey	44.6657	0.00241	0.00222	53.86684	7.85536	0.42314	7.14667	28.72	0.09253	2.11513	0.268	0.0634	2.98583	0.00363	0.00363	0.008	0.01287	0.0032
21	bailey	43.9393	0.00245	0.00226	55.80426	7.95269	0.44379	7.40333	27.7267	0.1238	2.1269	0.31227	0.0649	3.0466	0.00367	0.00367	0.00843	0.0126	0.00293
22	bailey	46.3027	0.00248	0.00229	53.4958	7.67057	0.41034	7.33667	28.4133	0.12283	2.1679	0.3109	0.06217	3.00323	0.0025	0.0044	0.0082	0.0126	0.00293
23	bailey	44.3451	0.00234	0.00216	52.67775	7.49144	0.39463	7.29	28.42	0.11443	2.09253	0.25623	0.0666	2.92237	0.0028	0.0039	0.00837	0.01233	0.003
24	bailey	39.0477	0.00223	0.00205	57.08403	7.85105	0.44817	7.05	28.2967	0.10653	2.1217	0.29257	0.07073	2.89933	0.00303	0.00453	0.00817	0.01223	0.00303
25	bailey	43.8892	0.00259	0.00238	58.89832	7.89168	0.46481	6.87333	29.22	0.11363	2.0619	0.3053	0.06683	2.79937	0.00303	0.00423	0.0082	0.0126	0.00317
26	bailey	46.355	0.00254	0.00234	54.68666	7.57396	0.41419	7.04667	31.38	0.1102	2.16407	0.28767	0.07367	2.87477	0.0028	0.00423	0.00803	0.0121	0.00343
27	bailey	40.8367	0.00226	0.0021	55.34238	7.25664	0.4016	6.36	29.97	0.12723	2.07567	0.2555	0.0741	2.5836	0.0026	0.0043	0.008	0.01267	0.0036
28	bailey	51.1575	0.00242	0.00227	47.38308	6.55941	0.3108	6.94333	29.3133	0.15093	2.08287	0.2932	0.06437	2.75157	0.0032	0.00453	0.00827	0.0127	0.003
29	bailey	39.2634	0.00175	0.00163	44.67265	6.95553	0.31072	7.67333	27.9533	0.12253	2.17307	0.33493	0.06303	3.18743	0.00327	0.00447	0.00837	0.01277	0.00307
30	bailey	46.722	0.00237	0.00221	50.78978	6.8268	0.34673	7.70333	28.83	0.11487	2.15663	0.27057	0.06857	3.11647	0.00363	0.0042	0.00877	0.0128	0.00323
31	bailey	45.6583	0.00248	0.00228	54.20701	8.08081	0.43804	6.91	28.34	0.10933	2.16757	0.28003	0.06413	2.9713	0.00337	0.00417	0.00867	0.01263	0.00333
32	bailey	46.8051	0.00293	0.00271	62.68548	7.80504	0.48926	7.15333	29.0133	0.14847	2.0688	0.3704	0.06943	2.88413	0.0031	0.00403	0.0086	0.01263	0.00303
33	bailey	13.0353	0.00077	0.0007	59.24681	9.10268	0.5393	6.81667	29.2567	0.17143	2.1042	0.36123	0.06757	2.82387	0.0025	0.00467	0.0082	0.0128	0.00303
34	bailey	54.1306	0.00318	0.00292	58.74681	8.1761	0.48032	7.19667	29.6733	0.14223	2.11307	0.31787	0.0622	2.8175	0.00407	0.00397	0.00853	0.01247	0.0028
35	bailey	39.5824	0.00245	0.00224	61.99725	8.88346	0.55075	6.73	29.6033	0.14657	2.06397	0.32167	0.07607	2.73677	0.00275	0.00363	0.00813	0.0124	0.00303
36	bailey	13.1707	0.00078	0.00071	59.10848	9.44123	0.55806	6.74667	29.4433	0.13927	2.1687	0.32053	0.0591	2.90237	0.00225	0.00433	0.0087	0.01257	0.00337
37	bailey	55.4662	0.00295	0.00271	53.13146	8.04208	0.42729	7.30667	27.9067	0.1231	2.17687	0.3675	0.05793	3.1096	0.0038	0.0045	0.00867	0.0127	0.00317

Appendix 1-4: The boxplot showing content of a) P, b) Al, c) K, d) Mn, e) Fe, f) Ni, g) Zn, h) Pb, i) Sr, j) Ca, k) Cu, l) Si obtained by Kruskal-Wallis test.

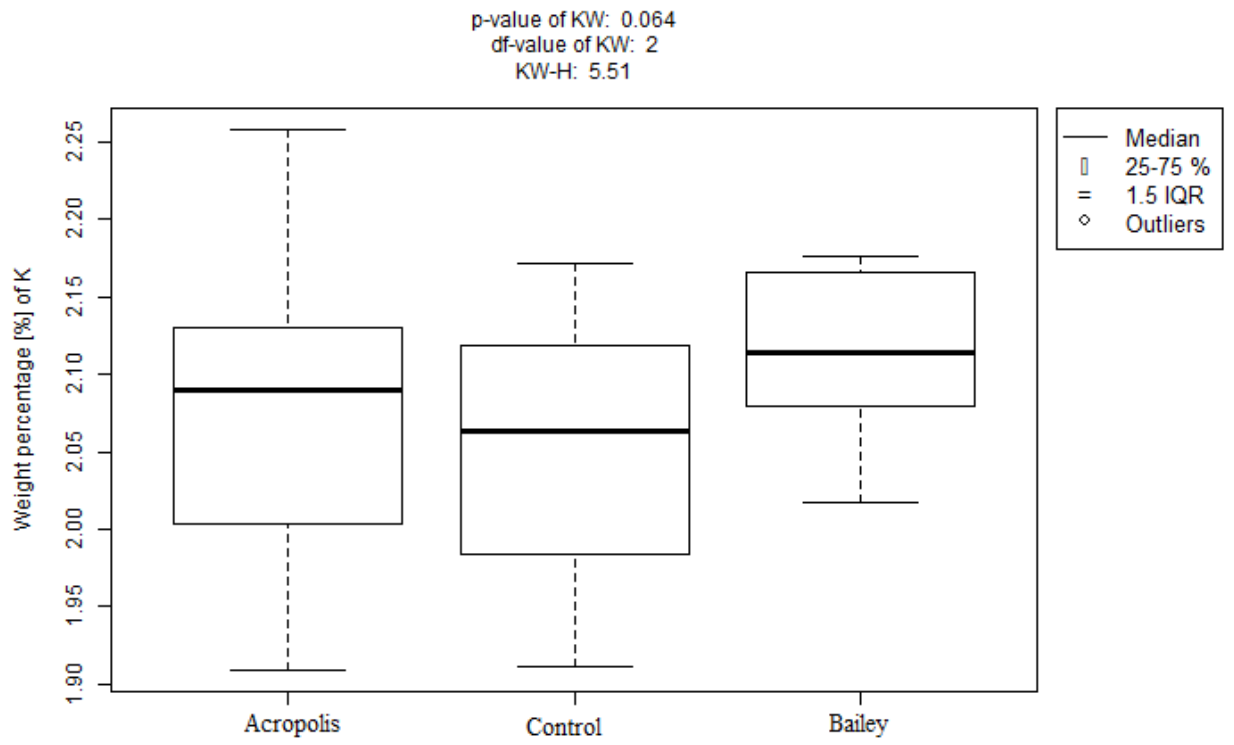
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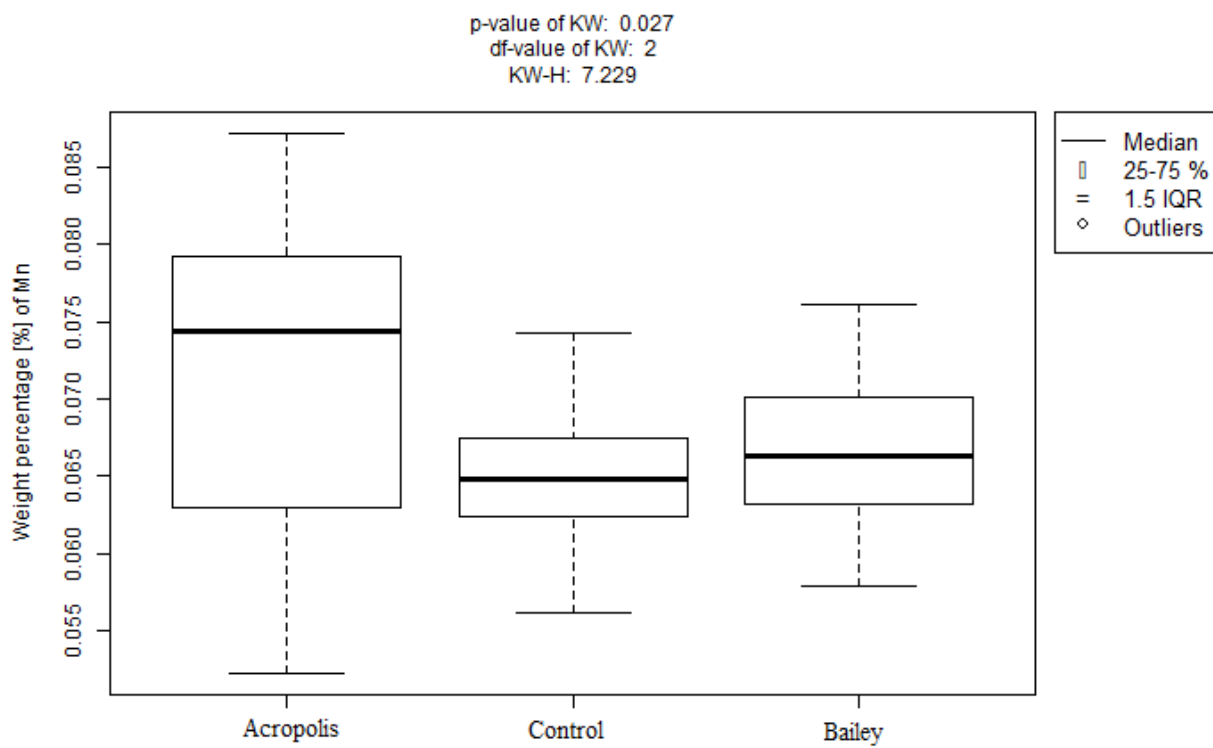
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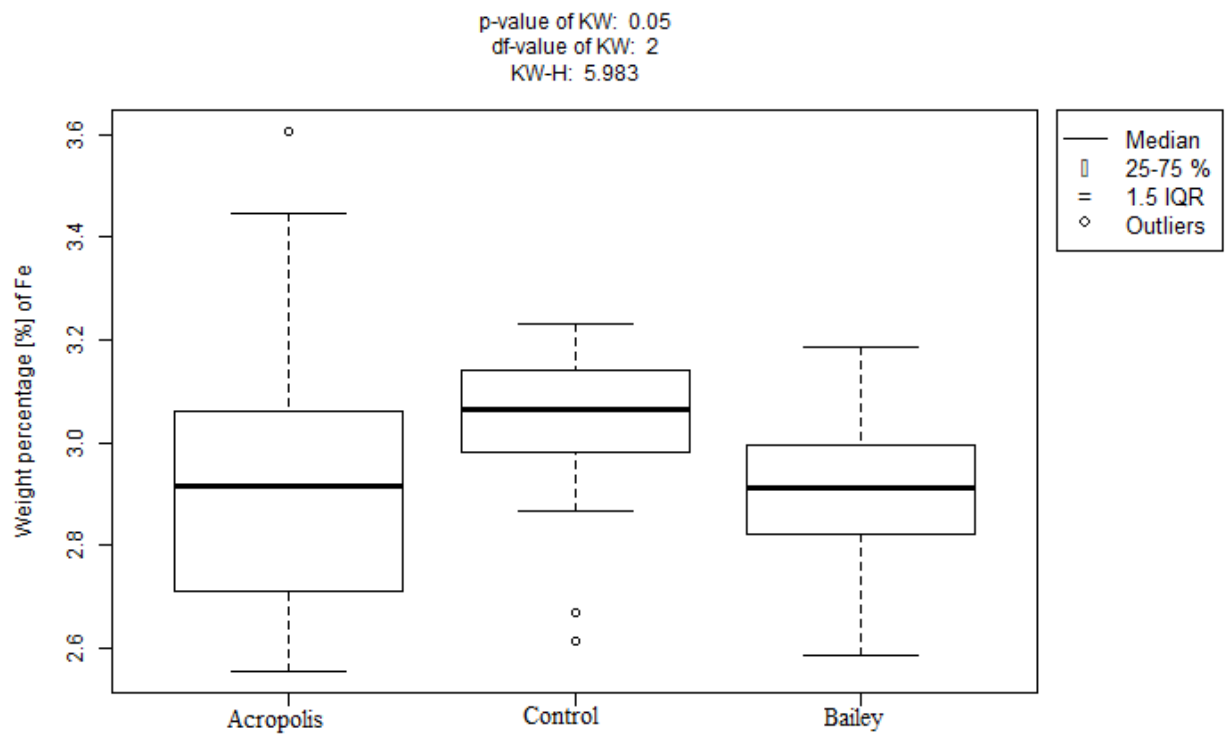
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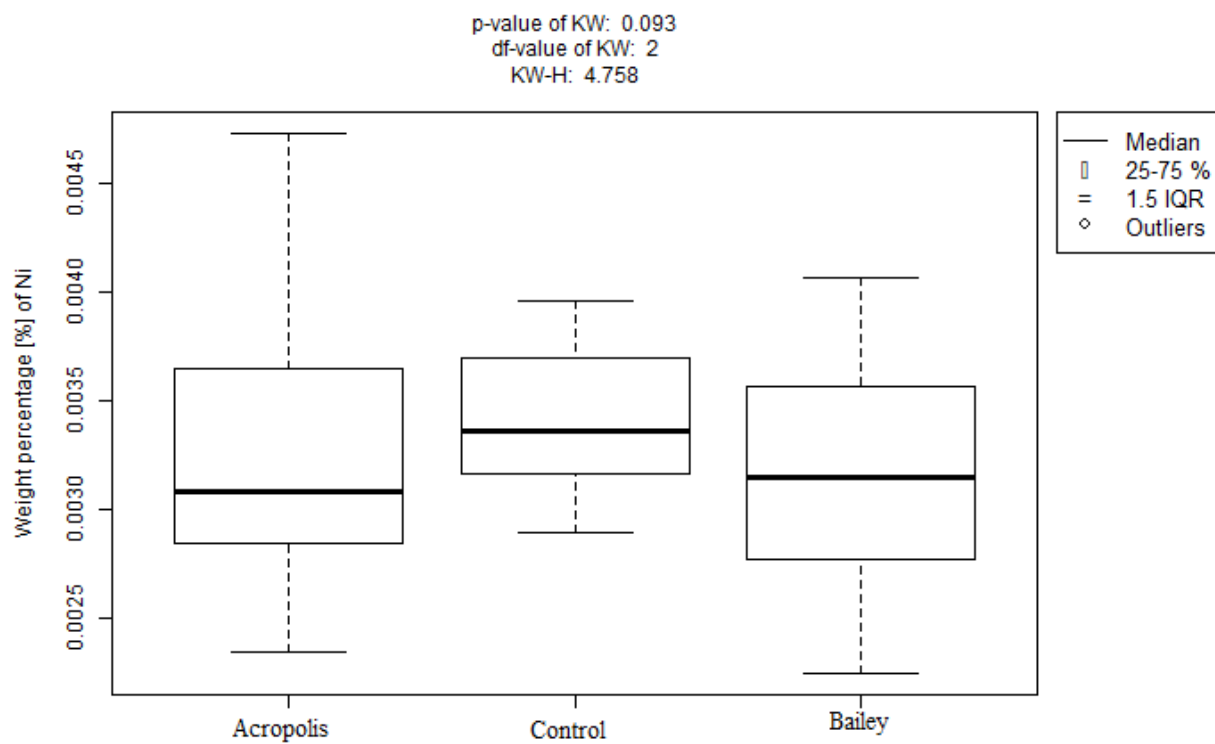


e)

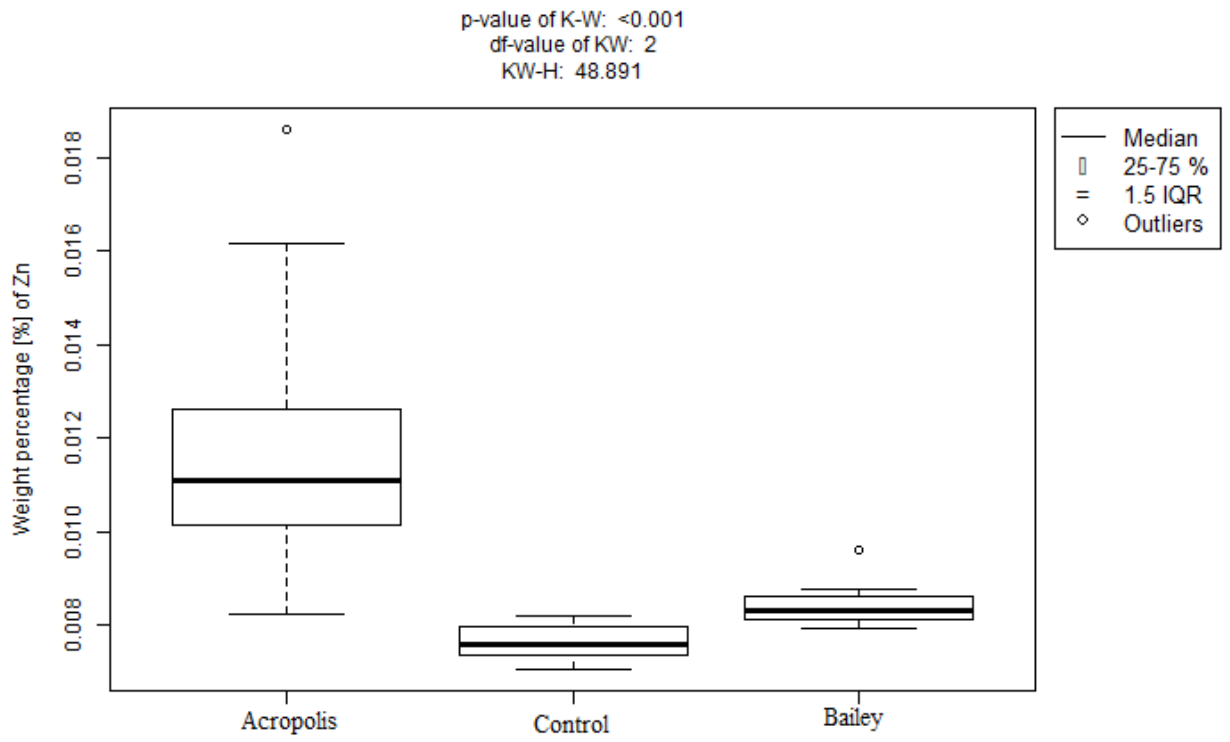




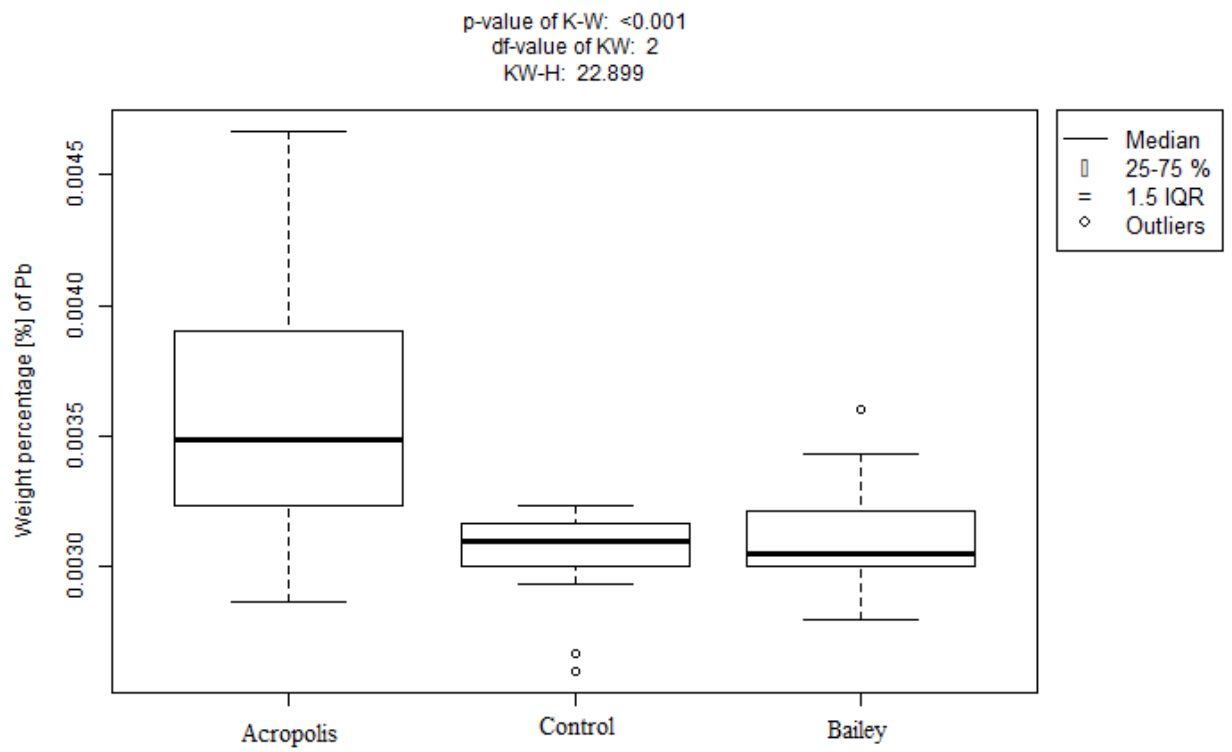
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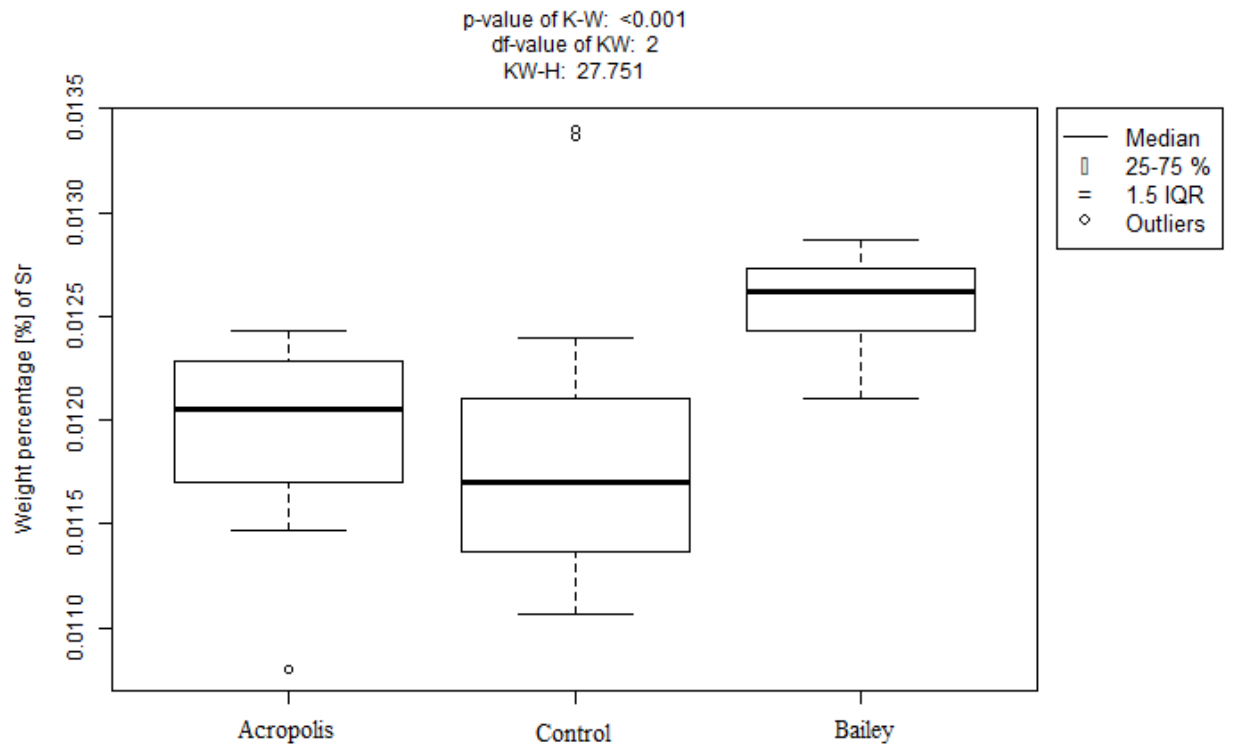
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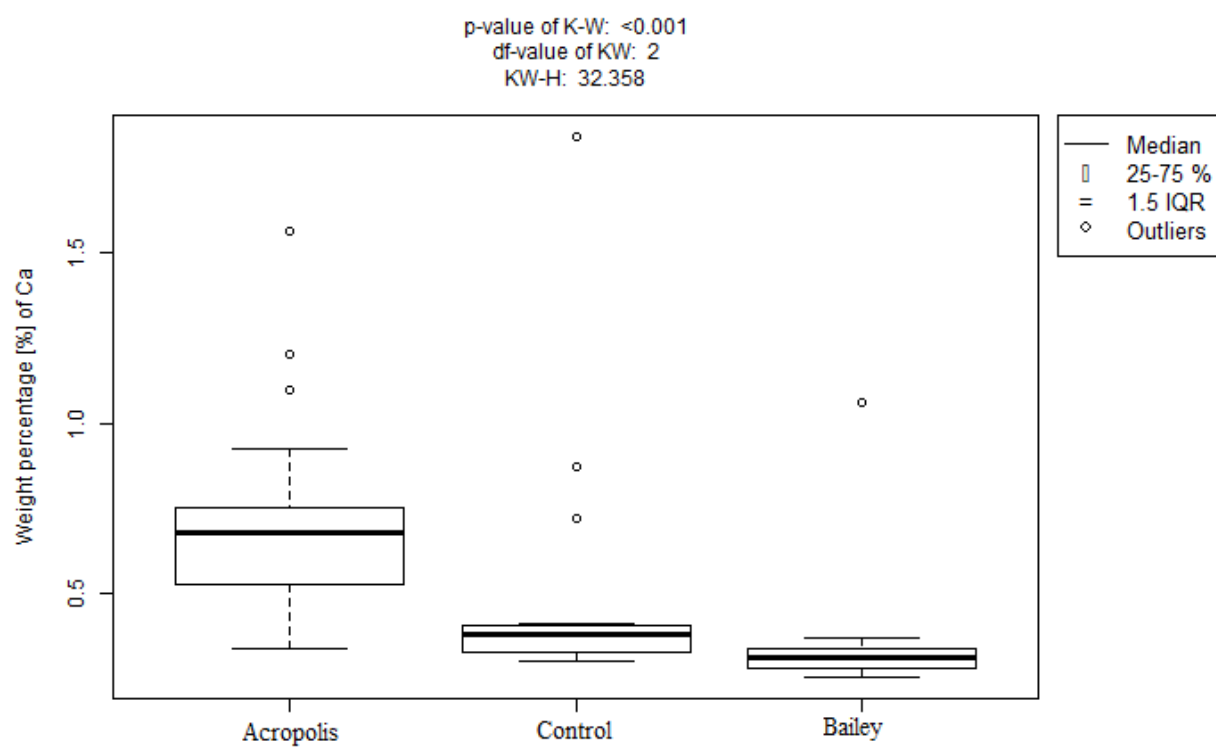
h)



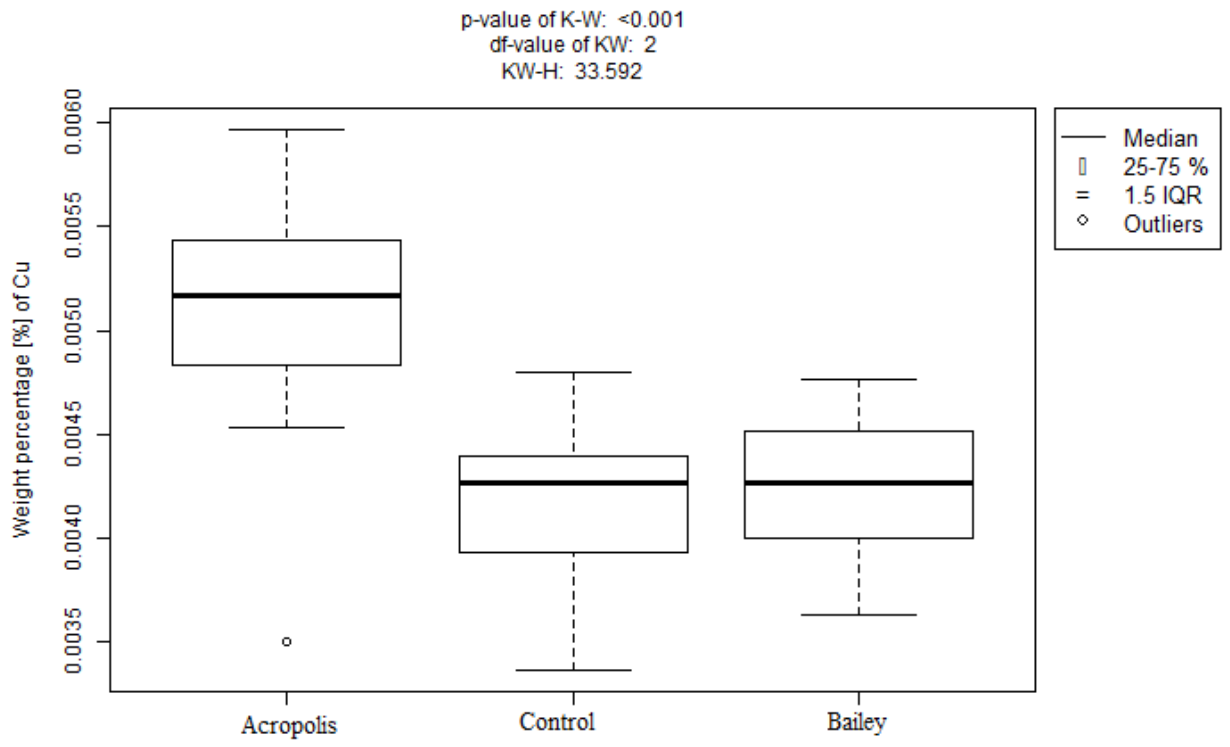
i)



j)



k)



1)

