

Table 1. Summary of Metals Concentrations in Upper 10 ft of Soil in Background and Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Aluminum	Background	31	31	100%	NA	NA	7340	8970	9020	11400	890	0.6	0.9
	Parcel C	33	33	100%	NA	NA	5170	7080	7100	9300	1070	0.7	0.8
	Parcel D	16	16	100%	NA	NA	3430	7730	7360	10800	1710	0.003	<0.001
	Parcel F	41	41	100%	NA	NA	4650	7260	7420	11600	1340	0.05	0.5
	Parcel G	25	25	100%	NA	NA	6410	7890	7810	8870	623	0.7	0.5
	Parcel H	42	42	100%	NA	NA	4320	7580	7580	9970	1070	0.2	0.005
Antimony	Background	31	13	42%	0.50	0.50	0.60	1.3	1.5	3.4	0.68	<0.001	<0.001
	Parcel C	33	31	94%	1.0	1.2	0.11	0.15	0.16	0.32	0.041	<0.001	<0.001
	Parcel D	16	16	100%	NA	NA	0.088	0.18	0.18	0.28	0.045	0.2	0.05
	Parcel F	41	35	85%	1.0	1.3	0.14	0.18	0.19	0.32	0.051	<0.001	<0.001
	Parcel G	25	20	80%	1.0	1.3	0.16	0.19	0.19	0.25	0.022	<0.001	<0.001
	Parcel H	42	25	60%	1.0	5.4	0.15	0.17	0.18	0.24	0.021	<0.001	<0.001
Arsenic	Background	31	31	100%	NA	NA	1.6	2.4	2.4	4.3	0.54	0.02	0.5
	Parcel C	33	33	100%	NA	NA	2.1	3.4	4.1	8.0	1.7	<0.001	0.07
	Parcel D	16	16	100%	NA	NA	1.3	3.2	3.5	6.1	1.2	0.08	0.04
	Parcel F	42	42	100%	NA	NA	2.4	3.5	3.8	6.9	1.1	<0.001	0.1
	Parcel G	25	25	100%	NA	NA	2.4	3.3	3.4	6.1	0.92	<0.001	0.02
	Parcel H	42	42	100%	NA	NA	1.3	2.7	2.8	5.2	0.88	0.3	0.8
Barium	Background	31	31	100%	NA	NA	111	162	166	213	22.5	0.6	0.4
	Parcel C	33	33	100%	NA	NA	86.7	172	175	340	45.7	0.01	0.3
	Parcel D	16	16	100%	NA	NA	82.5	171	163	236	45.7	0.1	0.02
	Parcel F	41	41	100%	NA	NA	67.0	153	224	1420	240	<0.001	<0.001
	Parcel G	25	25	100%	NA	NA	89.1	178	177	230	31.2	0.4	0.009
	Parcel H	42	42	100%	NA	NA	97.2	162	166	275	35.5	0.5	0.8
Beryllium	Background	31	31	100%	NA	NA	0.36	0.46	0.46	0.59	0.048	0.6	0.7
	Parcel C	33	33	100%	NA	NA	0.34	0.45	0.46	0.59	0.069	0.4	0.5
	Parcel D	16	16	100%	NA	NA	0.23	0.51	0.49	0.68	0.11	0.008	<0.001
	Parcel F	41	41	100%	NA	NA	0.39	0.52	0.53	0.84	0.079	0.003	0.2
	Parcel G	25	25	100%	NA	NA	0.42	0.54	0.54	0.65	0.051	0.9	0.6
	Parcel H	42	42	100%	NA	NA	0.35	0.57	0.57	0.74	0.085	0.5	0.1
Boron	Background	31	31	100%	NA	NA	3.4	6.2	6.8	11.7	1.9	0.3	0.4
	Parcel C	33	32	97%	20.4	20.4	3.2	7.3	7.4	15.3	2.7	0.3	0.9
	Parcel D	16	16	100%	NA	NA	3.8	8.3	10	22.6	5.7	0.04	0.1
	Parcel F	41	37	90%	20.7	26.4	3.7	8.4	8.5	13.4	2.7	0.3	0.04
	Parcel G	25	24	96%	20.3	20.3	4.5	7.8	7.8	13.8	2.0	0.09	0.6
	Parcel H	42	23	55%	26.1	265	3.7	5.3	6.4	15.3	3.0	<0.001	<0.001
Cadmium	Background	31	25	81%	0.04	0.04	0.11	0.19	0.20	0.48	0.085	0.009	<0.001
	Parcel C	33	33	100%	NA	NA	0.049	0.086	0.091	0.25	0.037	<0.001	0.2
	Parcel D	16	16	100%	NA	NA	0.036	0.096	0.091	0.13	0.024	0.2	0.01
	Parcel F	41	41	100%	NA	NA	0.038	0.088	0.11	0.42	0.069	<0.001	<0.001
	Parcel G	25	25	100%	NA	NA	0.054	0.092	0.097	0.17	0.028	0.004	0.2
	Parcel H	42	38	90%	0.54	1.3	0.058	0.093	0.093	0.15	0.023	<0.001	<0.001

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Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Chromium (Total)	Background	31	31	100%	NA	NA	5.6	7.5	7.7	10.7	1.2	0.4	0.7
	Parcel C	33	33	100%	NA	NA	4.8	8.8	9.0	13.9	2.5	0.2	0.3
	Parcel D	16	16	100%	NA	NA	4.1	10.9	10.7	17.8	3.4	0.4	0.07
	Parcel F	41	41	100%	NA	NA	5.2	10.1	10.9	19	3.0	<0.001	0.03
	Parcel G	25	25	100%	NA	NA	8.1	10.9	10.9	14.2	1.4	0.09	0.1
	Parcel H	42	42	100%	NA	NA	5.7	10.4	10.3	14.8	2.1	0.5	0.09
Chromium (VI)	Background	31	1	3%	0.18	0.24	0.29	0.29	0.29	0.29	NA	<0.001	<0.001
	Parcel C	33	0	0%	1.0	1.0	NA	NA	NA	NA	NA	NA	NA
	Parcel D	16	1	6%	1.0	1.0	1.3	1.3	1.3	1.3	NA	<0.001	<0.001
	Parcel F	41	1	2%	1.0	20	0.55	0.55	0.55	0.55	NA	<0.001	<0.001
	Parcel G	25	1	4%	1.0	1.1	0.49	0.49	0.49	0.49	NA	<0.001	<0.001
	Parcel H	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	Background	31	31	100%	NA	NA	5.4	7.3	7.3	9.1	0.76	0.5	0.4
	Parcel C	33	33	100%	NA	NA	3.6	5.9	6.0	8.2	1.2	0.8	0.5
	Parcel D	16	16	100%	NA	NA	3.2	6.5	6.1	7.5	1.1	0.01	0.001
	Parcel F	41	41	100%	NA	NA	4.7	6.9	6.9	11.2	1.5	0.01	0.4
	Parcel G	25	25	100%	NA	NA	5.7	7.2	7.2	8.1	0.63	0.3	0.1
	Parcel H	42	42	100%	NA	NA	4.7	7.1	6.9	9.5	1.1	0.4	0.2
Copper	Background	31	31	100%	NA	NA	15.8	19.1	23.1	140	21.8	<0.001	<0.001
	Parcel C	33	33	100%	NA	NA	10.4	12.7	13.1	27.4	3.1	<0.001	<0.001
	Parcel D	16	16	100%	NA	NA	6.0	13.2	12.5	15	2.4	0.002	<0.001
	Parcel F	41	41	100%	NA	NA	10.4	14.4	15.2	25.1	3.6	<0.001	0.001
	Parcel G	25	25	100%	NA	NA	12.5	15.3	15.1	19.5	1.5	0.06	0.3
	Parcel H	34	34	100%	NA	NA	7.2	16.8	16.7	23.8	2.7	0.002	<0.001
Iron	Background	31	31	100%	NA	NA	11300	15700	15500	20600	2140	0.5	0.3
	Parcel C	33	33	100%	NA	NA	7580	10900	11200	15500	2090	0.6	0.6
	Parcel D	16	16	100%	NA	NA	5950	12500	11800	14400	2260	0.003	<0.001
	Parcel F	41	41	100%	NA	NA	8620	12300	12500	22300	2330	<0.001	0.03
	Parcel G	25	25	100%	NA	NA	10700	13100	13100	15200	1190	0.8	0.5
	Parcel H	42	42	100%	NA	NA	7930	13200	13000	15700	1600	0.06	0.001
Lead	Background	31	31	100%	NA	NA	7.1	8.9	11.3	72.8	11.6	<0.001	<0.001
	Parcel C	33	33	100%	NA	NA	4.9	7.9	9.2	29.4	4.3	<0.001	0.002
	Parcel D	16	16	100%	NA	NA	3.8	9.2	9.5	19.6	3.6	0.05	0.4
	Parcel F	41	41	100%	NA	NA	5.1	8.7	15.1	136	21.6	<0.001	<0.001
	Parcel G	25	25	100%	NA	NA	7.1	10	11.3	39.4	6.2	<0.001	<0.001
	Parcel H	42	42	100%	NA	NA	4.0	7.4	8.0	14.1	1.9	<0.001	0.01
Magnesium	Background	31	31	100%	NA	NA	7700	9810	9990	13000	1320	0.8	1
	Parcel C	33	33	100%	NA	NA	5760	9180	9280	14600	2410	0.2	0.4
	Parcel D	16	16	100%	NA	NA	4100	8950	9080	14300	2740	0.6	0.06
	Parcel F	41	41	100%	NA	NA	5910	9270	9750	18900	2650	0.001	0.09
	Parcel G	25	25	100%	NA	NA	7190	8540	9510	25000	3560	<0.001	<0.001
	Parcel H	42	42	100%	NA	NA	5680	9030	9090	17000	2330	<0.001	0.2

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					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Manganese	Background	31	31	100%	NA	NA	262	360	366	537	61.3	0.03	0.4
	Parcel C	33	33	100%	NA	NA	163	276	301	841	117	<0.001	0.01
	Parcel D	16	16	100%	NA	NA	111	330	318	453	86.3	0.4	0.007
	Parcel F	41	41	100%	NA	NA	154	309	360	917	173	<0.001	0.005
	Parcel G	25	25	100%	NA	NA	235	361	380	711	115	0.01	0.5
	Parcel H	42	42	100%	NA	NA	218	338	343	558	79.2	0.01	0.5
Mercury	Background	31	31	100%	NA	NA	0.0060	0.015	0.033	0.36	0.065	<0.001	<0.001
	Parcel C	33	22	67%	0.034	0.038	0.0072	0.0096	0.012	0.033	0.0060	<0.001	0.007
	Parcel D	16	16	100%	NA	NA	0.0082	0.012	0.014	0.021	0.0044	0.02	0.1
	Parcel F	41	37	90%	0.035	0.044	0.0083	0.013	0.017	0.041	0.0088	<0.001	0.008
	Parcel G	25	21	84%	0.034	0.036	0.0076	0.015	0.015	0.024	0.0047	0.6	0.5
	Parcel H	42	19	45%	0.035	0.037	0.0076	0.013	0.014	0.033	0.0065	<0.001	<0.001
Molybdenum	Background	31	31	100%	NA	NA	0.27	0.48	1.6	32.7	5.8	<0.001	<0.001
	Parcel C	33	33	100%	NA	NA	0.38	0.55	0.57	0.92	0.12	0.004	0.2
	Parcel D	16	16	100%	NA	NA	0.32	0.56	0.61	1.1	0.21	0.1	0.7
	Parcel F	41	41	100%	NA	NA	0.29	0.51	0.61	1.5	0.26	<0.001	0.08
	Parcel G	25	25	100%	NA	NA	0.43	0.56	0.60	1.1	0.16	<0.001	0.02
	Parcel H	42	41	98%	5.4	5.4	0.16	0.48	0.52	1.0	0.16	<0.001	<0.001
Nickel	Background	31	31	100%	NA	NA	12.7	15.6	15.9	21.4	1.8	0.08	0.5
	Parcel C	33	33	100%	NA	NA	8.4	13.6	13.4	18.5	2.5	0.3	0.05
	Parcel D	16	16	100%	NA	NA	6.0	13.9	13.2	15.6	2.7	<0.001	<0.001
	Parcel F	41	41	100%	NA	NA	8.1	13.9	14.1	22.6	2.5	0.01	0.1
	Parcel G	25	25	100%	NA	NA	12.5	14.6	14.6	16.7	0.93	1	1
	Parcel H	42	42	100%	NA	NA	10.2	15.3	15.3	21.7	2.1	0.5	0.7
Platinum	Background	31	31	100%	NA	NA	0.0060	0.010	0.011	0.046	0.0074	<0.001	<0.001
	Parcel C	33	0	0%	0.20	0.23	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel D	16	0	0%	0.10	0.22	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel F	41	7	17%	0.20	0.51	0.021	0.11	0.41	2.4	0.88	<0.001	<0.001
	Parcel G	25	0	0%	0.20	0.27	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel H	42	0	0%	0.26	2.7	NA	NA	NA	NA	NA	<0.001	<0.001
Potassium	Background	31	31	100%	NA	NA	1450	2080	2180	4210	658	<0.001	0.02
	Parcel C	33	33	100%	NA	NA	1590	2320	2450	3660	556	0.2	0.7
	Parcel D	16	16	100%	NA	NA	787	2370	2580	4480	954	0.8	0.2
	Parcel F	41	41	100%	NA	NA	1190	1710	1820	3930	510	<0.001	0.007
	Parcel G	25	25	100%	NA	NA	1290	1870	1870	2630	302	0.9	1
	Parcel H	42	42	100%	NA	NA	704	1570	1620	2530	396	0.8	0.3
Selenium	Background	31	6	19%	0.70	0.80	0.80	0.95	0.93	1.1	0.12	<0.001	<0.001
	Parcel C	33	0	0%	1.0	1.2	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel D	16	0	0%	0.51	1.1	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel F	41	0	0%	1.0	1.3	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel G	25	0	0%	1.0	1.3	NA	NA	NA	NA	NA	<0.001	<0.001
	Parcel H	42	0	0%	1.0	5.4	NA	NA	NA	NA	NA	<0.001	<0.001

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					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Silver	Background	31	0	0%	0.20	0.20	NA	NA	NA	NA	NA	NA	NA
	Parcel C	33	33	100%	NA	NA	0.076	0.096	0.10	0.18	0.019	<0.001	0.003
	Parcel D	16	16	100%	NA	NA	0.038	0.095	0.093	0.12	0.023	0.02	<0.001
	Parcel F	41	41	100%	NA	NA	0.052	0.089	0.10	0.21	0.041	<0.001	0.01
	Parcel G	25	25	100%	NA	NA	0.084	0.11	0.12	0.22	0.031	<0.001	0.004
	Parcel H	42	26	62%	0.42	2.2	0.072	0.10	0.10	0.13	0.014	<0.001	<0.001
Sodium	Background	31	31	100%	NA	NA	307	630	621	1050	194	0.3	0.3
	Parcel C	33	33	100%	NA	NA	186	768	860	2300	551	0.005	0.5
	Parcel D	16	16	100%	NA	NA	222	502	686	2100	516	0.005	0.5
	Parcel F	41	41	100%	NA	NA	169	806	913	2910	585	<0.001	0.2
	Parcel G	25	25	100%	NA	NA	359	670	712	1810	344	<0.001	0.007
	Parcel H	42	42	100%	NA	NA	138	473	476	1050	249	0.02	0.02
Strontium	Background	31	31	100%	NA	NA	129	214	222	339	57	0.4	0.3
	Parcel C	33	33	100%	NA	NA	100	202	217	446	77.4	0.009	0.9
	Parcel D	16	16	100%	NA	NA	50.7	150	172	332	68.8	0.1	0.08
	Parcel F	41	41	100%	NA	NA	117	202	208	355	61.1	0.02	0.2
	Parcel G	25	25	100%	NA	NA	151	226	232	485	68.8	<0.001	0.04
	Parcel H	42	42	100%	NA	NA	77.1	202	218	500	95.7	0.007	0.7
Thallium	Background	31	31	100%	NA	NA	0.071	0.092	0.11	0.19	0.033	<0.001	0.003
	Parcel C	33	7	21%	0.41	0.46	0.15	0.19	0.23	0.36	0.074	<0.001	<0.001
	Parcel D	16	10	63%	0.21	0.44	0.10	0.22	0.23	0.45	0.10	0.03	0.2
	Parcel F	41	30	73%	0.41	1.1	0.16	0.21	0.23	0.43	0.081	<0.001	<0.001
	Parcel G	25	20	80%	0.43	0.54	0.16	0.21	0.21	0.34	0.044	0.09	0.3
	Parcel H	42	8	19%	0.42	2.2	0.19	0.19	0.22	0.32	0.05	<0.001	<0.001
Tin	Background	31	31	100%	NA	NA	3.1	4.0	4.0	5.8	0.56	0.08	0.5
	Parcel C	33	33	100%	NA	NA	0.16	0.43	0.44	1.2	0.22	<0.001	0.1
	Parcel D	16	16	100%	NA	NA	0.28	0.55	0.54	0.67	0.11	0.05	0.005
	Parcel F	41	41	100%	NA	NA	0.35	0.54	0.58	1.1	0.19	<0.001	<0.001
	Parcel G	25	25	100%	NA	NA	0.42	0.54	0.53	0.66	0.063	0.5	0.4
	Parcel H	42	29	69%	0.42	2.2	0.064	0.52	0.51	0.66	0.13	<0.001	<0.001
Titanium	Background	31	31	100%	NA	NA	480	829	793	1080	162	0.2	0.04
	Parcel C	33	33	100%	NA	NA	287	441	484	695	117	0.02	0.1
	Parcel D	16	16	100%	NA	NA	257	598	563	719	124	0.008	<0.001
	Parcel F	41	41	100%	NA	NA	343	504	535	1010	130	<0.001	0.1
	Parcel G	25	25	100%	NA	NA	436	568	559	737	83.8	0.4	0.4
	Parcel H	42	42	100%	NA	NA	294	592	587	740	91.7	0.1	<0.001
Tungsten	Background	31	31	100%	NA	NA	0.098	0.17	0.21	0.62	0.11	<0.001	0.02
	Parcel C	33	31	94%	1.0	1.2	0.22	0.32	0.36	0.95	0.14	<0.001	0.01
	Parcel D	16	16	100%	NA	NA	0.21	0.41	0.46	1.0	0.21	0.004	0.3
	Parcel F	41	39	95%	1.1	1.3	0.22	0.41	0.73	9.0	1.4	<0.001	<0.001
	Parcel G	25	20	80%	1.0	1.3	0.31	0.38	0.41	0.73	0.10	0.02	0.1
	Parcel H	42	25	60%	1.3	13.3	0.27	0.33	0.37	0.85	0.14	<0.001	<0.001

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					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (<i>p</i> -value)	Lognormal (<i>p</i> -value)
Uranium	Background	31	31	100%	NA	NA	0.66	0.98	1.1	1.9	0.36	<i>0.002</i>	0.05
	Parcel C	33	33	100%	NA	NA	0.52	1.0	1.3	2.7	0.55	<i>0.002</i>	0.2
	Parcel D	16	16	100%	NA	NA	0.39	0.96	1.2	2.5	0.62	0.05	0.5
	Parcel F	41	41	100%	NA	NA	0.58	1.2	1.3	3.2	0.55	<i><0.001</i>	0.2
	Parcel G	25	25	100%	NA	NA	0.80	1.1	1.3	3.9	0.60	<i><0.001</i>	<i><0.001</i>
	Parcel H	42	42	100%	NA	NA	0.60	1.1	1.2	2.4	0.52	<i><0.001</i>	0.02
Vanadium	Background	31	31	100%	NA	NA	28	46	43.8	54.9	7.6	0.08	0.02
	Parcel C	33	33	100%	NA	NA	19.5	28.8	31.6	48.7	8.5	0.02	0.1
	Parcel D	16	16	100%	NA	NA	19.1	36.2	35.1	47.2	7.5	0.3	0.03
	Parcel F	37	37	100%	NA	NA	27.4	37.7	39.8	65.8	7.1	<i>0.005</i>	0.2
	Parcel G	25	25	100%	NA	NA	32.8	41.4	41.5	53.2	5.4	0.6	0.9
	Parcel H	42	42	100%	NA	NA	28.2	38.1	37.7	49.7	5.0	0.9	0.8
Zinc	Background	31	31	100%	NA	NA	25.8	33.3	40.4	254	39.9	<i><0.001</i>	<i><0.001</i>
	Parcel C	33	33	100%	NA	NA	19.4	25.4	27.1	49.8	6.8	<i><0.001</i>	<i>0.004</i>
	Parcel D	16	16	100%	NA	NA	14	29.8	27.6	32.7	5.3	<i>0.002</i>	<i><0.001</i>
	Parcel F	41	41	100%	NA	NA	23.6	30.2	33.2	67.1	9.9	<i><0.001</i>	<i><0.001</i>
	Parcel G	25	25	100%	NA	NA	25.1	32.5	32.7	52.3	5.0	<i><0.001</i>	<i>0.006</i>
	Parcel H	42	42	100%	NA	NA	22.1	31.6	31.3	37.8	3.5	0.6	0.1

Notes:

p-values < 0.01 are shown in italic

NA - value not available

Background dataset is from RZ-A, excluding the 6 borings in LOU 62.

Shapiro Wilk tests use 1/2 the detection limit (DL) for non-detects.

Table 2. Background Comparisons for Metals in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Aluminum	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F	N, LN	1	1	1	1	0.6	No	a
	Parcel G	N, LN	1	1	1	1	1	No	a
	Parcel H	N	1	1	1	1	1	No	a
Antimony	Parcel C		1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G		1	1	1	1	1	No	a
	Parcel H		1	1	1	1	1	No	a
Arsenic	Parcel C	LN	<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel D	N, LN	<0.001	<0.001	<0.001	0.001	0.01	Yes	
	Parcel F	LN	<0.001	<0.001	<0.001	0.001	<0.001	Yes	
	Parcel G	LN	<0.001	<0.001	<0.001	<0.001	0.08	Yes	
	Parcel H	N, LN	0.01	0.03	0.04	0.009	0.3	Yes	
Barium	Parcel C	LN	0.2	0.3	0.1	0.04	0.3	Yes	c
	Parcel D	N, LN	0.6	0.7	0.4	0.7	0.1	Yes	c
	Parcel F		0.06	0.2	0.8	0.1	0.004	Yes	
	Parcel G	N	0.07	0.1	0.03	0.1	0.2	Yes	c
	Parcel H	N, LN	0.5	0.6	0.6	0.3	0.3	Yes	c
Beryllium	Parcel C	N, LN	0.6	0.7	0.6	0.3	0.5	Yes	c
	Parcel D		0.2	0.3	0.009	0.03	0.3	Yes	
	Parcel F	LN	<0.001	<0.001	<0.001	0.002	0.02	Yes	
	Parcel G	N, LN	<0.001	<0.001	<0.001	<0.001	0.03	Yes	
	Parcel H	N, LN	<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
Boron	Parcel C	N, LN	0.1	0.2	0.2	0.2	0.3	Yes	c
	Parcel D	N, LN	0.02	0.05	0.1	<0.001	<0.001	Yes	
	Parcel F	N, LN	<0.001	<0.001	<0.001	0.002	0.04	Yes	
	Parcel G	N, LN	0.02	0.01	0.03	0.4	0.4	Yes	
	Parcel H		<0.001	<0.001	0.01	1	0.2	Yes	
Cadmium	Parcel C		1	1	1	1	1	No	a
	Parcel D		1	0.9	1	1	1	No	a
	Parcel F		1	0.9	1	1	1	No	a
	Parcel G		1	0.9	1	1	1	No	a
	Parcel H		1	0.8	1	1	1	No	a

Table 2. Background Comparisons for Metals in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Chromium (Total)	Parcel C	N, LN	0.007	0.02	0.05	0.008	<0.001	Yes	
	Parcel D	N, LN	0.002	0.004	<0.001	<0.001	<0.001	Yes	
	Parcel F	LN	<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel G	N, LN	<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel H	N, LN	<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
Chromium (VI)	Parcel C		<0.001	<0.001	<0.001	1	1	LDF	b
	Parcel D		<0.001	<0.001	<0.001	0.3	0.03	LDF	b
	Parcel F		0.004	<0.001	<0.001	0.8	0.03	LDF	b
	Parcel G		<0.001	<0.001	<0.001	0.7	0.03	LDF	b
	Parcel H		NA	NA	NA	NA	NA	LDF	b
Cobalt	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D	N	1	1	1	1	1	No	a
	Parcel F	N, LN	0.9	1	1	0.7	0.1	Yes	c
	Parcel G	N, LN	0.8	0.8	0.7	0.6	1	No	a
	Parcel H	N, LN	1	1	0.9	0.4	0.6	No	a
Copper	Parcel C		1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G		1	1	1	1	1	No	a
	Parcel H		0.9	1	1	1	1	No	a
Iron	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F	LN	1	1	1	1	0.6	No	a
	Parcel G	N, LN	1	1	1	1	1	No	a
	Parcel H	N	1	1	1	1	1	No	a
Lead	Parcel C		0.8	0.9	1	0.2	1	No	a
	Parcel D		0.8	0.7	0.4	0.2	1	No	a
	Parcel F		0.2	0.2	0.6	0.1	0.6	Yes	c
	Parcel G		0.5	0.2	0.02	0.1	1	Yes	
	Parcel H		0.9	1	1	1	1	No	a
Magnesium	Parcel C	N, LN	0.9	1	0.9	0.6	0.1	Yes	c
	Parcel D	N, LN	0.9	0.9	0.9	0.5	0.3	Yes	c
	Parcel F	LN	0.7	0.9	0.9	0.1	0.3	Yes	c
	Parcel G		0.7	0.9	1	0.7	0.2	Yes	c
	Parcel H	LN	1	1	1	1	0.2	Yes	c

Table 2. Background Comparisons for Metals in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Manganese	Parcel C	LN	1	1	1	1	0.5	No	a
	Parcel D	N	1	1	0.9	0.9	1	No	a
	Parcel F		0.6	0.9	1	0.9	0.05	Yes	c
	Parcel G	N, LN	0.3	0.4	0.6	0.3	0.08	Yes	c
	Parcel H	N, LN	0.9	1	1	0.8	0.3	No	
Mercury	Parcel C		0.9	1	0.9	1	1	No	a
	Parcel D		0.9	1	0.9	0.7	1	No	a
	Parcel F		0.9	0.9	0.8	0.5	1	No	a
	Parcel G		0.9	0.9	0.6	0.8	1	No	a
	Parcel H		0.9	0.9	0.03	1	1	No	a
Molybdenum	Parcel C		0.8	0.7	0.07	0.9	1	No	a
	Parcel D		0.8	0.6	0.1	0.5	1	No	a
	Parcel F		0.8	0.6	0.1	0.5	1	No	a
	Parcel G		0.8	0.5	0.04	0.8	1	No	a
	Parcel H		0.8	0.8	0.5	0.9	1	No	a
Nickel	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F	LN	1	1	1	1	0.6	No	a
	Parcel G	N, LN	1	1	1	1	1	No	a
	Parcel H	N, LN	0.9	0.9	0.9	0.5	0.6	No	
Platinum	Parcel C		<0.001	<0.001	<0.001	1	1	No	b
	Parcel D		<0.001	<0.001	<0.001	1	1	No	b
	Parcel F		0.005	<0.001	<0.001	0.8	<0.001	Yes	b
	Parcel G		<0.001	<0.001	<0.001	1	1	No	b
	Parcel H		<0.001	<0.001	<0.001	1	1	No	b
Potassium	Parcel C	LN	0.04	0.02	0.009	0.1	1	Yes	
	Parcel D	LN	0.07	0.1	0.05	0.06	0.3	Yes	c
	Parcel F		1	1	1	1	1	No	a
	Parcel G	LN	1	1	1	1	1	No	a
	Parcel H	LN	1	1	1	1	1	No	a
Selenium	Parcel C		0.08	0.003	<0.001	1	1	No	b
	Parcel D		0.3	0.1	<0.001	1	1	No	b
	Parcel F		0.06	0.002	<0.001	1	1	No	b
	Parcel G		0.06	0.002	<0.001	1	1	No	b
	Parcel H		0.001	<0.001	<0.001	1	1	No	b

Table 2. Background Comparisons for Metals in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Silver	Parcel C		0.4	0.6	1	1	NA	No	b
	Parcel D		0.9	0.9	1	1	NA	No	b
	Parcel F		0.3	0.7	1	0.3	NA	No	b
	Parcel G		0.006	0.004	1	0.4	NA	No	b
	Parcel H		0.003	<0.001	1	<0.001	NA	No	b
Sodium	Parcel C	LN	0.01	0.1	0.08	<0.001	<0.001	Yes	
	Parcel D	LN	0.3	0.7	0.7	0.2	0.01	Yes	
	Parcel F	LN	0.002	0.008	0.006	<0.001	0.002	Yes	
	Parcel G		0.1	0.1	0.3	1	0.2	Yes	c
	Parcel H	N, LN	1	1	1	1	1	No	a
Strontium	Parcel C	LN	0.6	0.7	0.8	0.7	0.1	Yes	c
	Parcel D	N, LN	1	1	1	0.9	1	No	a
	Parcel F	N, LN	0.8	0.9	0.9	0.6	0.3	No	
	Parcel G	LN	0.3	0.2	0.4	0.8	0.2	Yes	c
	Parcel H	LN	0.6	0.8	0.8	0.5	0.06	Yes	c
Thallium	Parcel C		<0.001	<0.001	<0.001	0.6	0.004	Yes	b
	Parcel D		<0.001	<0.001	<0.001	0.01	<0.001	Yes	
	Parcel F		<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel G		<0.001	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel H		<0.001	<0.001	<0.001	0.7	0.006	Yes	b
Tin	Parcel C	LN	1	1	1	1	1	No	a
	Parcel D	N	1	1	1	1	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G	N, LN	1	1	1	1	1	No	a
	Parcel H		1	1	1	1	1	No	a
Titanium	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F	LN	1	1	1	1	1	No	a
	Parcel G	N, LN	1	1	1	1	1	No	a
	Parcel H	N	1	1	1	1	1	No	a
Tungsten	Parcel C	LN	<0.001	<0.001	<0.001	0.1	0.5	Yes	
	Parcel D	LN	<0.001	<0.001	<0.001	<0.001	0.03	Yes	
	Parcel F		0.01	<0.001	<0.001	<0.001	<0.001	Yes	
	Parcel G	LN	<0.001	<0.001	<0.001	0.08	0.4	Yes	
	Parcel H		<0.001	<0.001	<0.001	0.1	0.2	Yes	

Table 2. Background Comparisons for Metals in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Uranium	Parcel C	LN	0.04	0.06	0.1	0.1	0.06	Yes	c
	Parcel D	LN	0.2	0.4	0.4	0.2	0.03	Yes	c
	Parcel F	LN	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	0.1	0.05	Yes	
	Parcel G		0.1	0.05	0.05	0.6	0.4	Yes	c
	Parcel H	LN	0.07	0.1	0.2	0.1	0.06	Yes	c
Vanadium	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D	N, LN	1	1	1	1	1	No	a
	Parcel F	LN	1	1	1	1	0.5	No	a
	Parcel G	N, LN	0.9	0.9	0.9	1	1	No	a
	Parcel H	N, LN	1	1	1	1	1	No	a
Zinc	Parcel C		1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F		0.8	0.9	1	0.9	1	No	a
	Parcel G		0.9	0.9	0.8	1	1	No	a
	Parcel H		0.9	1	1	1	1	No	a

Notes:

p-values in italics indicate $p < 0.03$

LDF = Low detection frequency (<25%) in either parcel or background datasets. Background comparison results may not be applicable.

NA - value not available

Background comparison tests use 1/2 the detection limit (DL) for non-detects in the parametric test (t-test) and the DL for non-parametric tests (Gehan test, quantile test, and slippage test).

Distribution:

N = Parcel data and background data consistent with normal distribution

LN = Parcel data and background data consistent with log-normal distribution

Notes:

a = Parcel data lower than background data

b = Less than 25% frequency of detection in either parcel or background data sets.

c = Parcel data greater than background data based on visual inspection of box and Q-Q plots

Table 3. Summary of Radionuclide Concentrations in Upper 10 ft of Soil in Background and Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	No. of Samples	Concentrations (pCi/g)					Shapiro-Wilk Test	
			Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Ra-226	Background	95	0.494	1.09	1.15	2.36	0.340	<0.001	0.2
	Parcel C	33	0.755	1.04	1.04	1.40	0.116	0.2	0.3
	Parcel D	16	0.958	1.06	1.08	1.47	0.118	<0.001	0.002
	Parcel F	41	0.412	0.972	1.01	2.31	0.272	<0.001	<0.001
	Parcel G	25	0.770	1.00	1.01	1.30	0.143	0.2	0.5
	Parcel H	45	0.698	1.25	1.35	2.46	0.442	0.02	0.6
Ra-228	Background	81	0.946	1.93	1.89	2.92	0.391	0.8	0.04
	Parcel C	33	1.23	1.74	1.73	2.13	0.185	0.9	0.3
	Parcel D	16	1.57	1.79	1.78	2.01	0.139	0.4	0.4
	Parcel F	41	0.442	1.74	2.17	14.3	2.16	<0.001	<0.001
	Parcel G	25	0.850	1.77	1.82	2.73	0.328	0.003	<0.001
	Parcel H	45	1.05	1.55	1.60	3.01	0.366	<0.001	0.1
Th-228	Background	101	1.15	1.78	1.74	2.28	0.262	0.04	0.002
	Parcel C	33	1.19	1.64	1.67	2.26	0.282	0.3	0.6
	Parcel D	15	1.07	1.48	1.50	1.87	0.209	1	0.9
	Parcel F	41	1.21	1.62	1.62	2.12	0.225	0.7	0.6
	Parcel G	25	1.28	1.76	1.78	2.33	0.259	0.07	0.2
	Parcel H	42	1.52	1.93	2.00	2.92	0.345	0.01	0.2
Th-230	Background	101	0.730	1.21	1.29	3.01	0.389	<0.001	0.06
	Parcel C	33	0.802	1.40	1.42	2.17	0.349	0.5	0.6
	Parcel D	15	0.979	1.31	1.31	1.95	0.257	0.1	0.3
	Parcel F	41	0.792	1.08	1.13	1.67	0.197	0.09	0.7
	Parcel G	25	0.933	1.19	1.29	1.98	0.254	0.02	0.2
	Parcel H	42	0.840	1.40	1.53	3.03	0.549	<0.001	0.04
Th-232	Background	101	1.22	1.66	1.66	2.23	0.255	0.01	0.01
	Parcel C	33	1.28	1.59	1.62	2.15	0.213	0.2	0.5
	Parcel D	15	0.920	1.51	1.44	1.69	0.208	0.04	0.008
	Parcel F	41	1.12	1.51	1.49	1.92	0.233	0.1	0.1
	Parcel G	25	1.18	1.52	1.56	1.97	0.249	0.2	0.2
	Parcel H	42	1.11	1.78	1.81	2.74	0.356	0.8	0.7
U-234	Background	101	0.630	1.05	1.19	2.84	0.456	<0.001	<0.001
	Parcel C	33	0.874	1.37	1.36	2.05	0.306	0.3	0.2
	Parcel D	16	0.838	1.23	1.31	2.26	0.385	0.03	0.4
	Parcel F	38	0.725	1.09	1.16	2.56	0.386	<0.001	0.006
	Parcel G	23	0.795	1.19	1.29	1.98	0.344	0.2	0.3
	Parcel H	42	0.937	1.32	1.64	3.52	0.730	<0.001	0.001

Table 3. Summary of Radionuclide Concentrations in Upper 10 ft of Soil in Background and Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	No. of Samples	Concentrations (pCi/g)					Shapiro-Wilk Test	
			Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
U-235	Background	101	0.0009	0.0600	0.0696	0.210	0.0381	<i>0.002</i>	<i><0.001</i>
	Parcel C	33	0.0136	0.0385	0.0397	0.0782	0.0176	0.2	0.2
	Parcel D	16	0.0136	0.0362	0.0418	0.0704	0.0166	0.3	0.3
	Parcel F	38	0.0000	0.0389	0.0438	0.105	0.0243	0.1	NA
	Parcel G	23	0.0196	0.0558	0.0629	0.170	0.0309	<i>0.002</i>	0.6
	Parcel H	42	0.0112	0.0545	0.0559	0.159	0.0274	<i>0.002</i>	<i>0.01</i>
U-238	Background	101	0.650	1.05	1.16	2.37	0.358	<i><0.001</i>	<i><0.001</i>
	Parcel C	33	0.800	1.13	1.16	1.87	0.213	0.07	0.8
	Parcel D	16	0.816	1.03	1.10	1.61	0.241	0.07	0.2
	Parcel F	38	0.643	1.03	1.04	1.77	0.284	<i>0.002</i>	0.2
	Parcel G	23	0.659	1.08	1.11	1.55	0.242	0.6	0.7
	Parcel H	42	0.839	1.23	1.42	2.60	0.495	<i><0.001</i>	<i>0.002</i>

Notes:

p-values < 0.01 are shown in italic

NA - value not available

Background dataset is from RZ-A, excluding the 6 borings in LOU 62.

Table 4. Background Comparisons for Radionuclides in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
Ra-226	Parcel C	LN	1	1	1	1	1	No	a
	Parcel D		0.9	0.8	0.7	1	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G	LN	1	1	1	1	1	No	a
	Parcel H	LN	0.004	0.004	0.003	0.02	0.1	Yes	
Ra-228	Parcel C	N, LN	1	1	1	1	1	No	a
	Parcel D	N, LN	1	0.9	1	1	1	No	a
	Parcel F		0.2	0.6	1	1	0.04	Yes	b
	Parcel G		0.8	0.8	0.9	0.9	1	No	a
	Parcel H	LN	1	1	1	1	0.4	No	a
Th-228	Parcel C	N	0.9	0.9	0.9	0.9	1	No	a
	Parcel D	N	1	1	1	1	1	No	a
	Parcel F	N	1	1	1	1	1	No	a
	Parcel G	N	0.2	0.2	0.4	0.5	0.2	No	
	Parcel H	N	<0.001	<0.001	<0.001	0.001	<0.001	Yes	
Th-230	Parcel C	LN	0.04	0.03	0.02	0.03	1	Yes	
	Parcel D	LN	0.4	0.3	0.2	1	1	No	a
	Parcel F	LN	1	1	1	1	1	No	a
	Parcel G	LN	0.5	0.3	0.3	0.6	1	No	a
	Parcel H	LN	0.007	0.004	0.004	0.1	0.08	Yes	
Th-232	Parcel C	N, LN	0.8	0.8	0.8	0.9	1	No	a
	Parcel D	N	1	1	1	1	1	No	a
	Parcel F	N, LN	1	1	1	1	1	No	a
	Parcel G	N, LN	1	1	1	0.9	1	No	a
	Parcel H	N, LN	0.008	0.01	0.007	0.01	0.02	Yes	
U-234	Parcel C		0.007	<0.001	<0.001	0.08	1	Yes	
	Parcel D		0.1	0.06	0.03	0.4	1	No	a
	Parcel F		0.6	0.5	0.3	0.7	1	No	a
	Parcel G		0.1	0.05	0.03	0.05	1	No	a
	Parcel H		<0.001	<0.001	<0.001	0.01	0.002	Yes	
U-235	Parcel C		1	1	1	1	1	No	a
	Parcel D		1	1	1	1	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G		0.8	0.4	0.8	1	1	No	a
	Parcel H		1	0.8	1	1	1	No	a

Table 4. Background Comparisons for Radionuclides in Upper 10 ft of Soil in Parcels C, D, F, G, and H
Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Chemical Name	Location	Distribution	t-test (p-value)	t-test (logged data) (p-value)	Gehan Test (p-value)	Quantile Test (0.8) (p-value)	Slippage Test (p-value)	Parcels Samples Greater than Background Samples?	Notes
U-238	Parcel C		0.5	0.3	0.1	0.9	1	No	a
	Parcel D		0.8	0.7	0.6	0.7	1	No	a
	Parcel F		1	1	1	1	1	No	a
	Parcel G		0.8	0.7	0.4	0.9	1	No	a
	Parcel H		<i>0.001</i>	<i><0.001</i>	<i><0.001</i>	0.04	<i>0.007</i>	Yes	

Notes:

p-values in italics indicate $p < 0.03$

Distribution:

N = Parcel data and background data consistent with normal distribution

LN = Parcel data and background data consistent with log-normal distribution

Notes:

a = Gilbert's Toolbox results imply parcel data lower than background data

b = Parcel data greater than background based on visual inspection of box and Q-Q plots

Table 5a. Equivalence Test for Secular Equilibrium of Uranium Decay Series (U-238 Chain)¹

Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Location	p-value	Conclusion ²	Delta	Sample Size ³	Number Missing	Analyte	Mean Proportions of Radioactivity	95% Confidence Intervals		Shifts ⁴
								Lower	Upper	
All	<0.0001	In Secular Equilibrium	0.1	234	39	Ra-226	0.2321	0.2238	0.2405	0
						Th-230	0.2697	0.2621	0.2772	0
						U-234	0.2591	0.2518	0.2664	0
						U-238	0.2391	0.2333	0.2449	0
Background	<0.0001	In Secular Equilibrium	0.1	95	6	Ra-226	0.2396	0.2260	0.2531	0
						Th-230	0.2714	0.2595	0.2834	0
						U-234	0.2451	0.2339	0.2563	0
						U-238	0.2439	0.2341	0.2537	0
C	0.0003	In Secular Equilibrium	0.1	29	8	Ra-226	0.2118	0.1934	0.2302	0
						Th-230	0.2849	0.2590	0.3108	0
						U-234	0.2704	0.2531	0.2877	0
						U-238	0.2329	0.2174	0.2483	0
D	0.001	In Secular Equilibrium	0.1	14	3	Ra-226	0.2260	0.1962	0.2557	0
						Th-230	0.2708	0.2418	0.2998	0
						U-234	0.2720	0.2372	0.3067	0
						U-238	0.2313	0.2072	0.2555	0
F	<0.0001	In Secular Equilibrium	0.1	35	9	Ra-226	0.2380	0.2067	0.2693	0
						Th-230	0.2608	0.2369	0.2847	0
						U-234	0.2644	0.2410	0.2878	0
						U-238	0.2368	0.2179	0.2557	0
G	<0.0001	In Secular Equilibrium	0.1	21	6	Ra-226	0.2156	0.1974	0.2337	0
						Th-230	0.2762	0.2511	0.3013	0
						U-234	0.2726	0.2459	0.2993	0
						U-238	0.2356	0.2118	0.2594	0
H	<0.0001	In Secular Equilibrium	0.1	40	7	Ra-226	0.2350	0.2149	0.2551	0
						Th-230	0.2583	0.2405	0.2761	0
						U-234	0.2680	0.2508	0.2852	0
						U-238	0.2387	0.2268	0.2506	0

Note:

1. Analyzed data from top 10 ft of soil using the EnviroGISdT software tool from Neptune & Company, Inc.
2. Tool states "in secular equilibrium" if the computed *p*-value is less than a standard significance level of 0.05.
3. Sample dataset includes field duplicates
4. Data Shift - Lists the values of the data shift utilized by the tool in case of negative radioactivity measurements. All measurements values for that radioisotope are shifted upwards by the shift value so that all values are non-negative. A zero shift value indicates lack of negative measurements.

Table 5b. Equivalence Test for Secular Equilibrium of Thorium Decay Series (Th-232 Chain)¹

Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

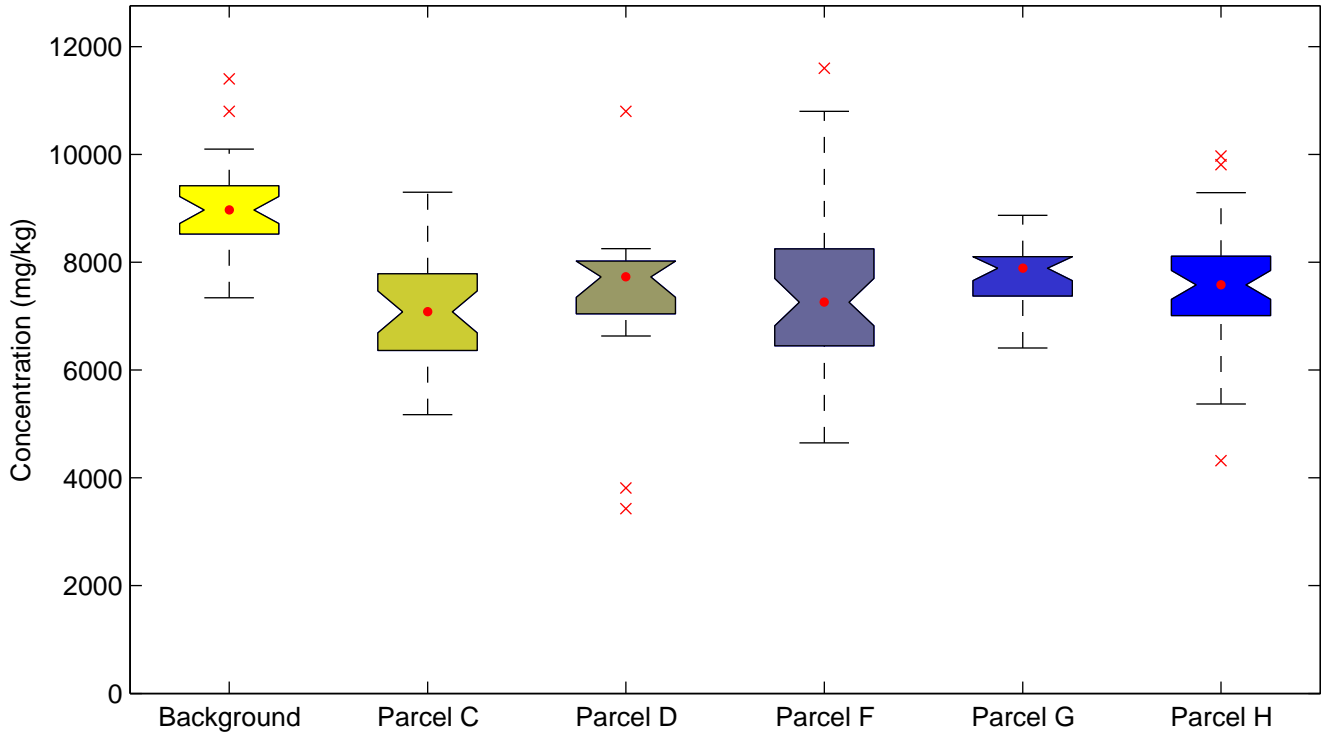
Location	p-value	Conclusion ²	Delta	Sample Size ³	Number Missing	Analyte	Mean Proportions of Radioactivity	95% Confidence Intervals		Shifts ⁴
								Lower	Upper	
All	<0.0001	In Secular Equilibrium	0.1	235	28	Ra-228	0.3486	0.3370	0.3602	0
						Th-228	0.3372	0.3298	0.3446	0
						Th-232	0.3142	0.3075	0.3209	0
Background	<0.0001	In Secular Equilibrium	0.1	81	20	Ra-228	0.3564	0.3417	0.3710	0
						Th-228	0.3294	0.3203	0.3385	0
						Th-232	0.3143	0.3052	0.3234	0
C	<0.0001	In Secular Equilibrium	0.1	33	0	Ra-228	0.3466	0.3310	0.3623	0
						Th-228	0.3309	0.3163	0.3455	0
						Th-232	0.3225	0.3096	0.3354	0
D	0.0069	In Secular Equilibrium	0.1	15	1	Ra-228	0.3802	0.3490	0.4114	0
						Th-228	0.3164	0.2947	0.3381	0
						Th-232	0.3034	0.2819	0.3250	0
F	<0.0001	In Secular Equilibrium	0.1	41	0	Ra-228	0.3726	0.3253	0.4198	0
						Th-228	0.3278	0.2985	0.3572	0
						Th-232	0.2996	0.2759	0.3232	0
G	<0.0001	In Secular Equilibrium	0.1	25	0	Ra-228	0.3537	0.3225	0.3848	0
						Th-228	0.3449	0.3267	0.3631	0
						Th-232	0.3014	0.2810	0.3218	0
H	<0.0001	In Secular Equilibrium	0.1	40	7	Ra-228	0.2950	0.2727	0.3173	0
						Th-228	0.3708	0.3551	0.3864	0
						Th-232	0.3342	0.3167	0.3518	0

Note:

1. Analyzed data from top 10 ft of soil using the EnviroGISdT software tool from Neptune & Company, Inc.
2. Tool states "in Secular Equilibrium" if the computed *p*-value is less than a standard significance level of 0.05.
3. Sample dataset includes field duplicates
4. Data Shift - Lists the values of the data shift utilized by the tool in case of negative radioactivity measurements. All measurements values for that radioisotope are shifted upwards by the shift value so that all values are non-negative. A zero shift value indicates lack of negative measurements.

**Figure 1-1. Background vs. Site Boxplots
Aluminum**

DRAFT



x Detected Outliers

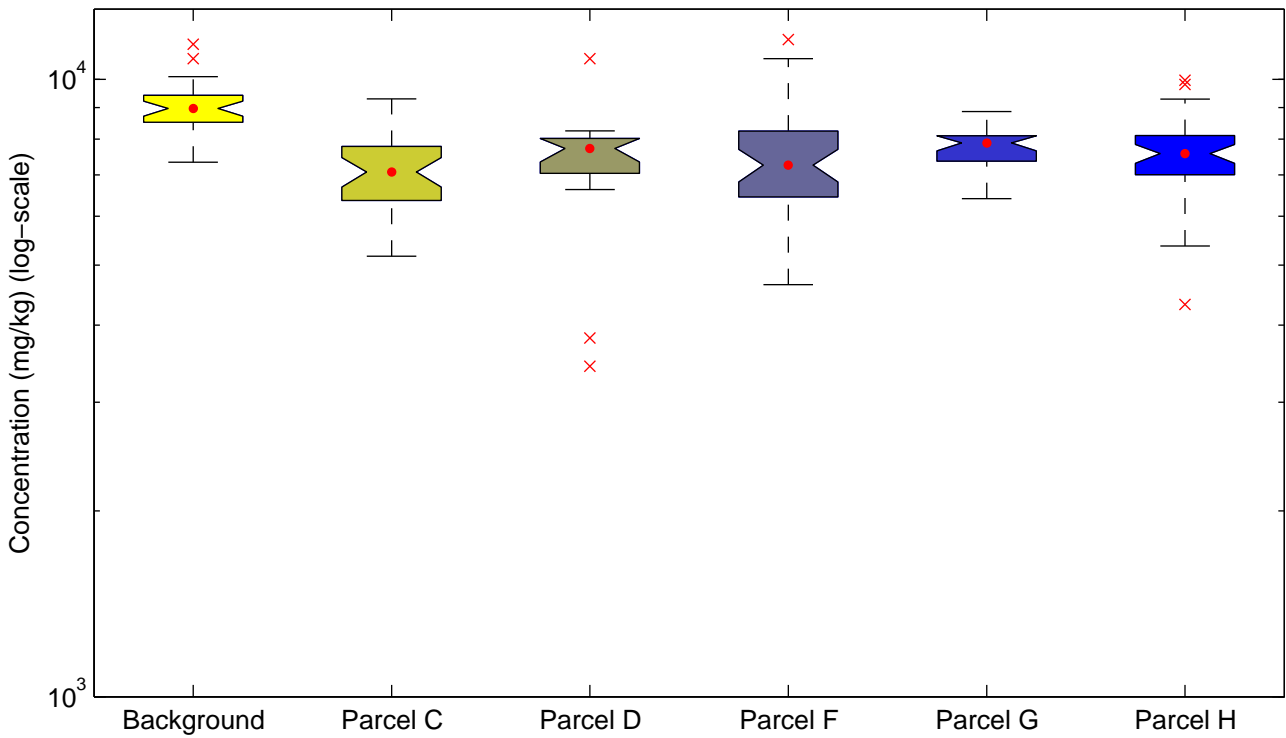
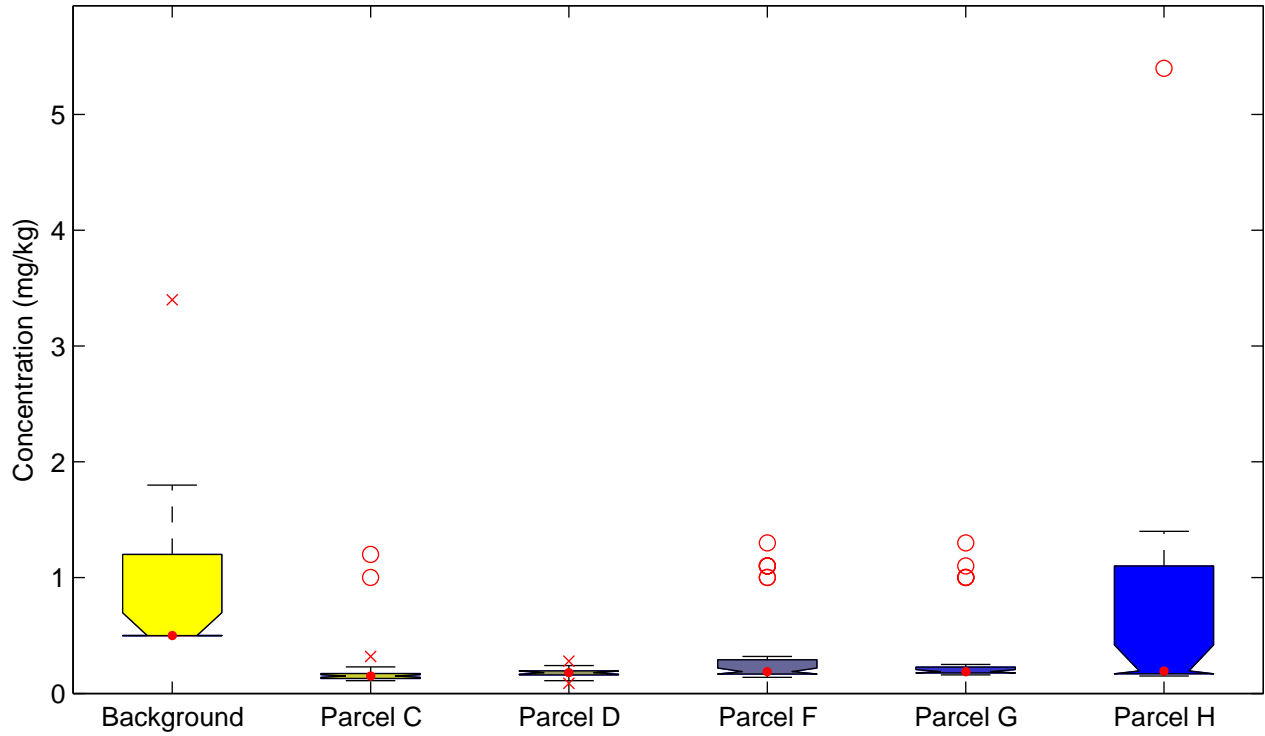


Figure 1–2. Background vs. Site Boxplots
Antimony

DRAFT



× Detected Outliers ○ Non-Detected Outliers

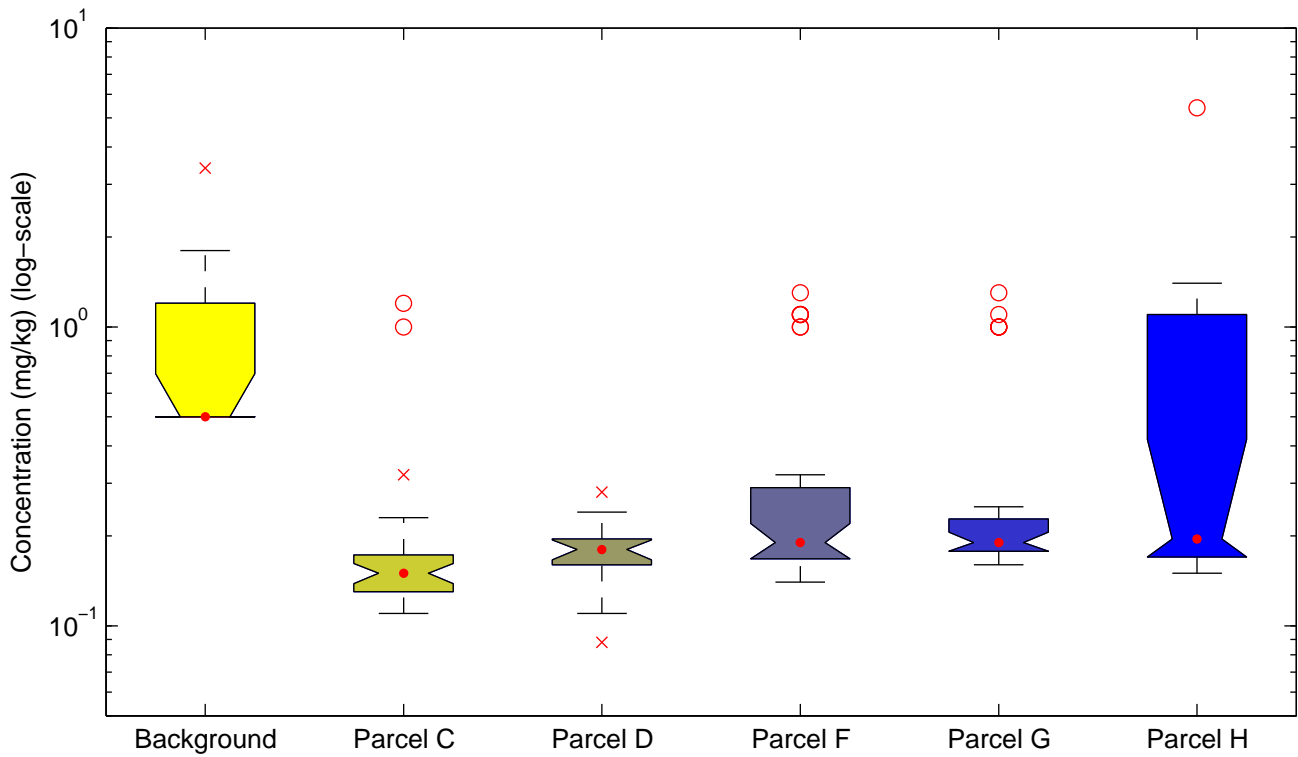
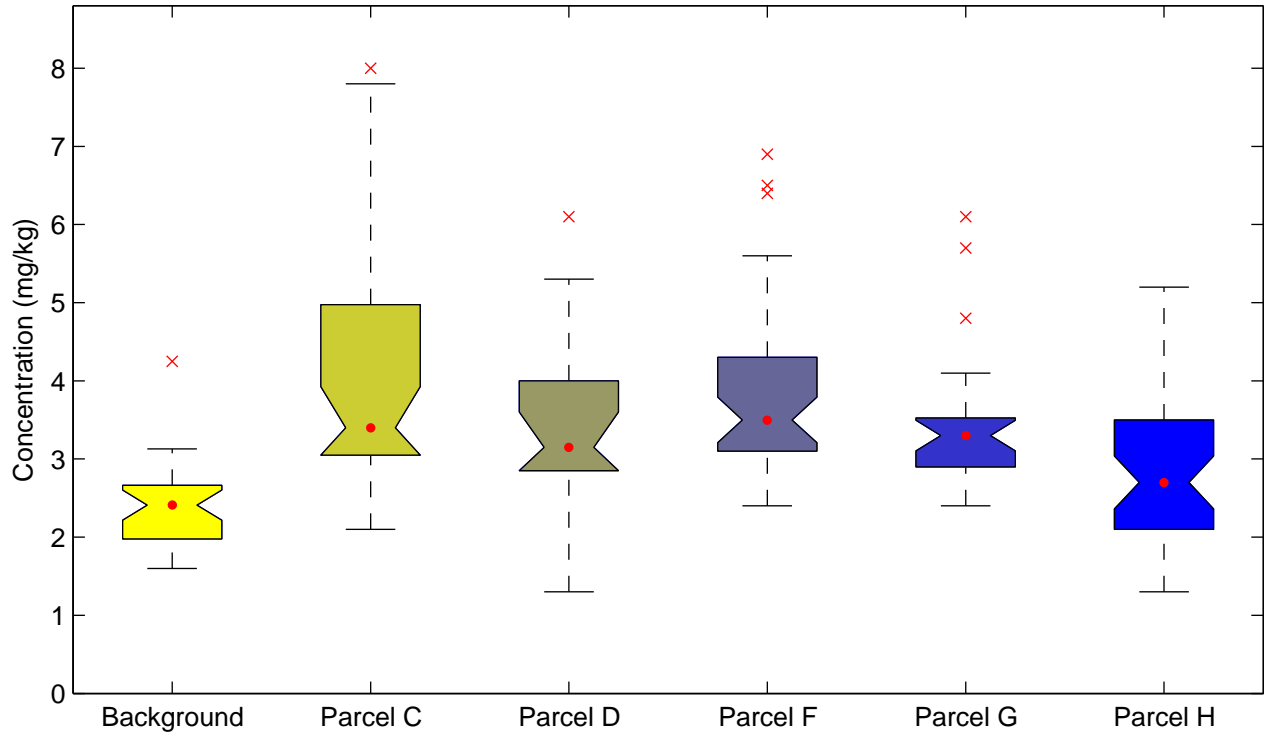


Figure 1–3. Background vs. Site Boxplots
Arsenic

DRAFT



x Detected Outliers

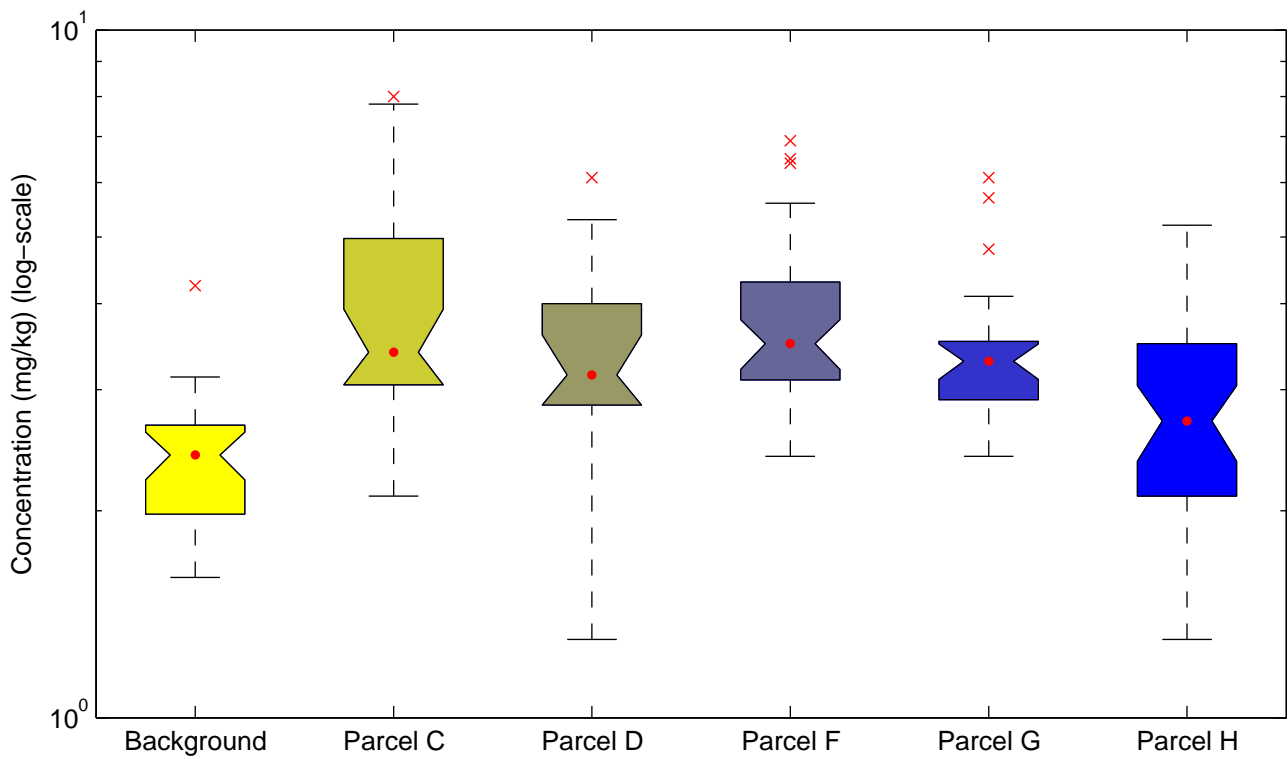


Figure 1–4. Background vs. Site Boxplots
Barium

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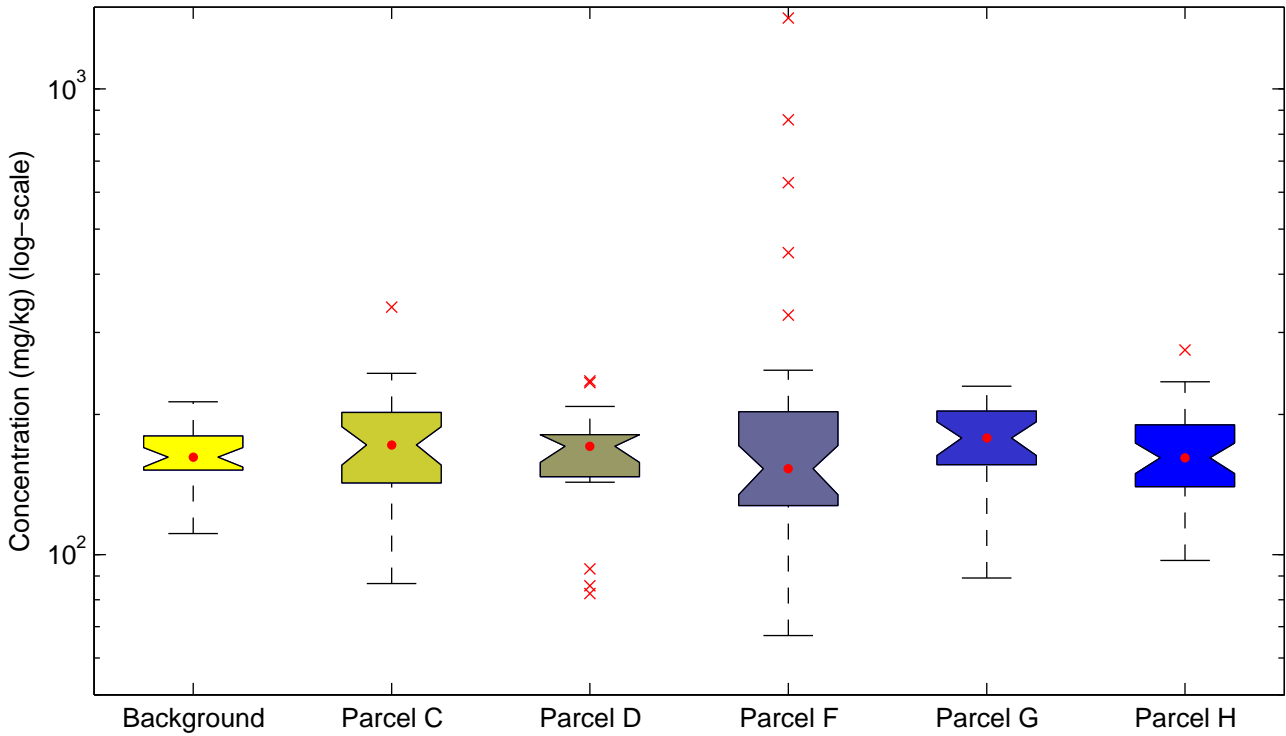
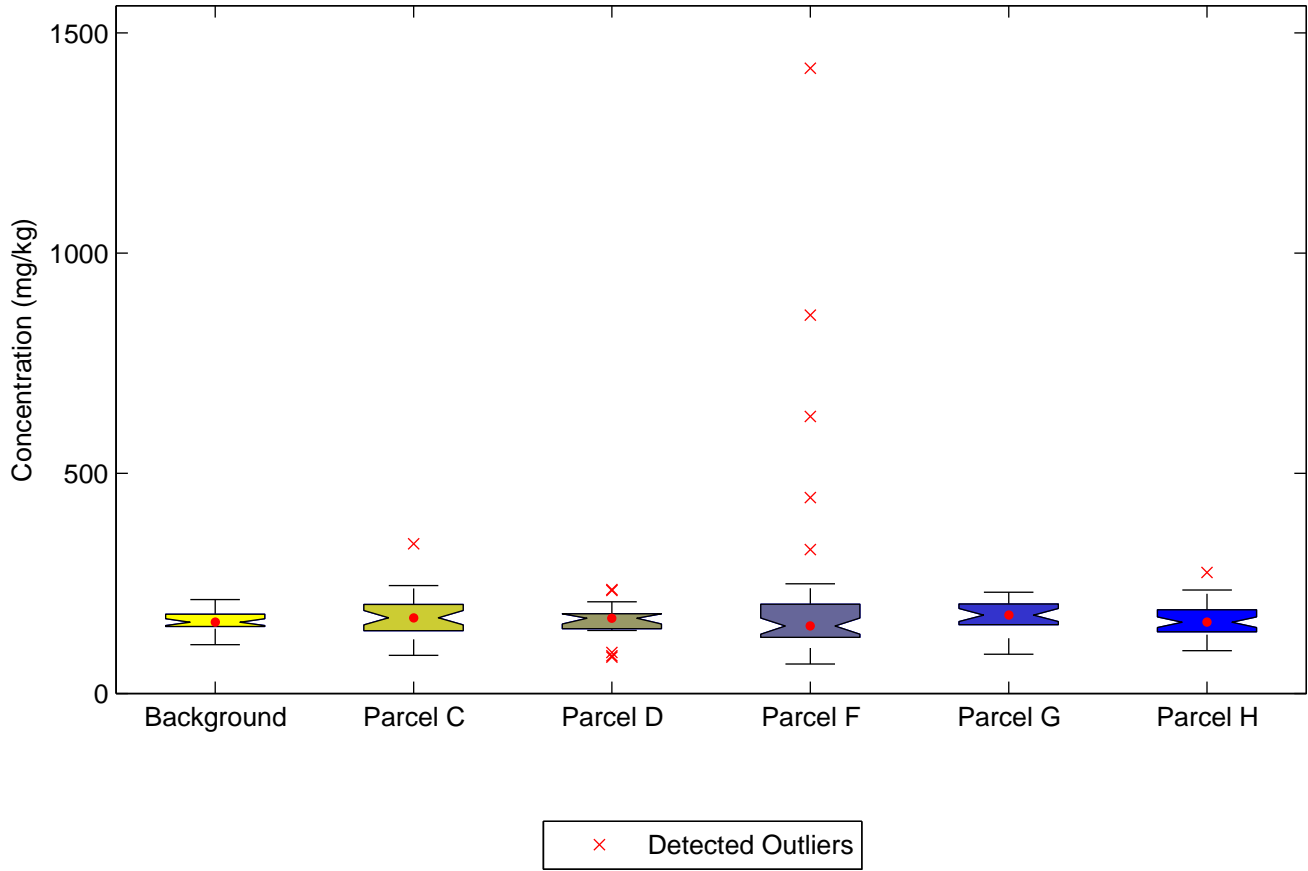
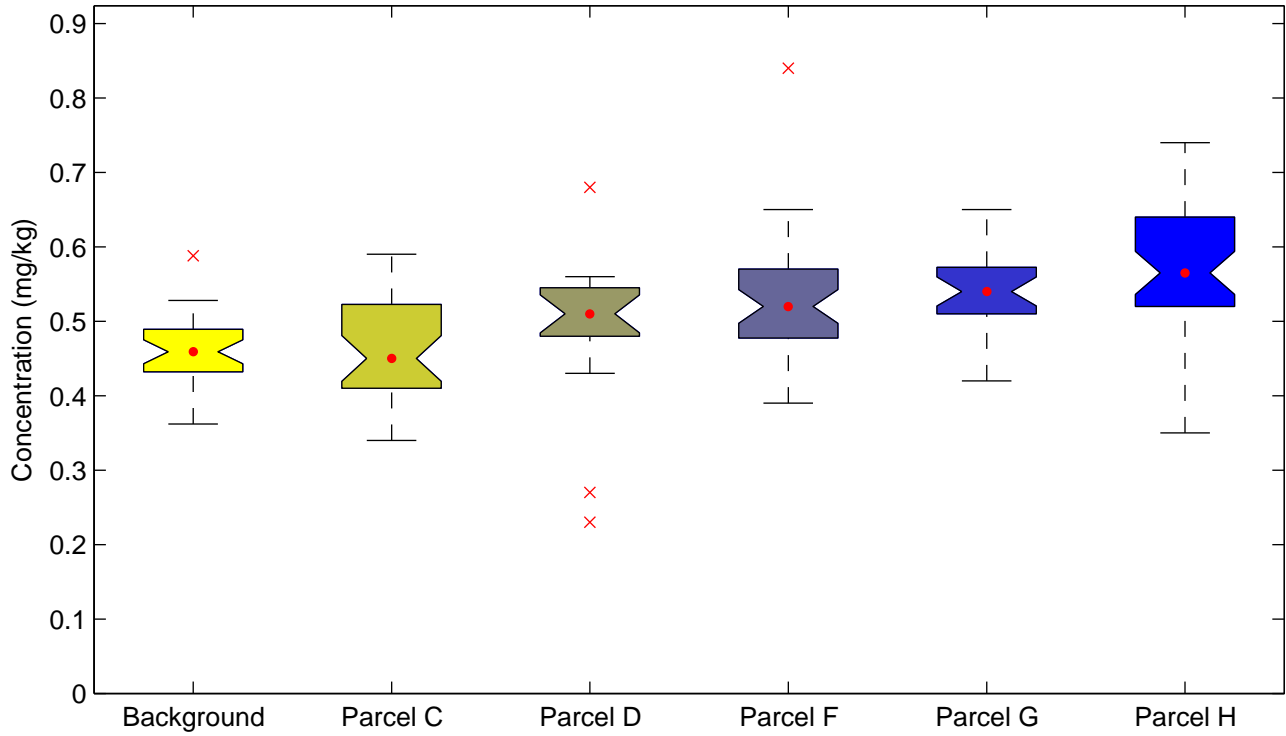


Figure 1–5. Background vs. Site Boxplots
Beryllium

DRAFT



x Detected Outliers

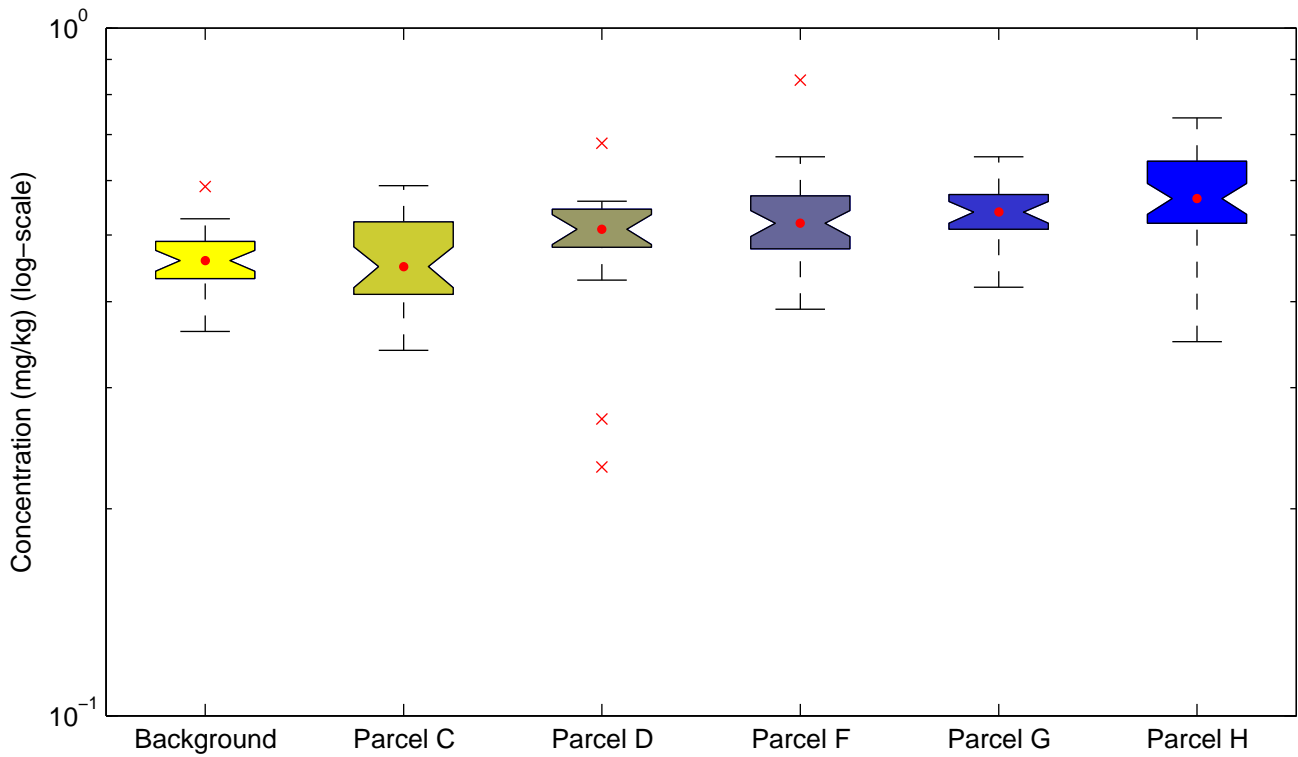


Figure 1–6. Background vs. Site Boxplots
Boron

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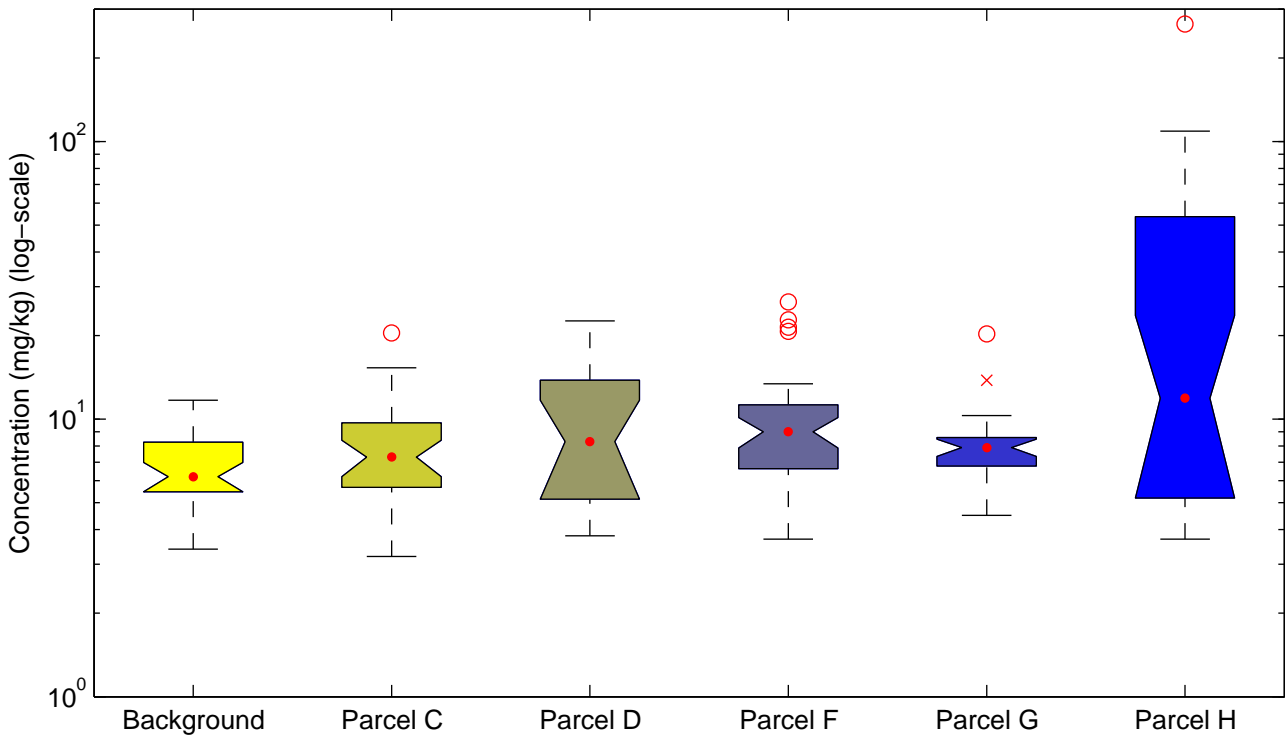
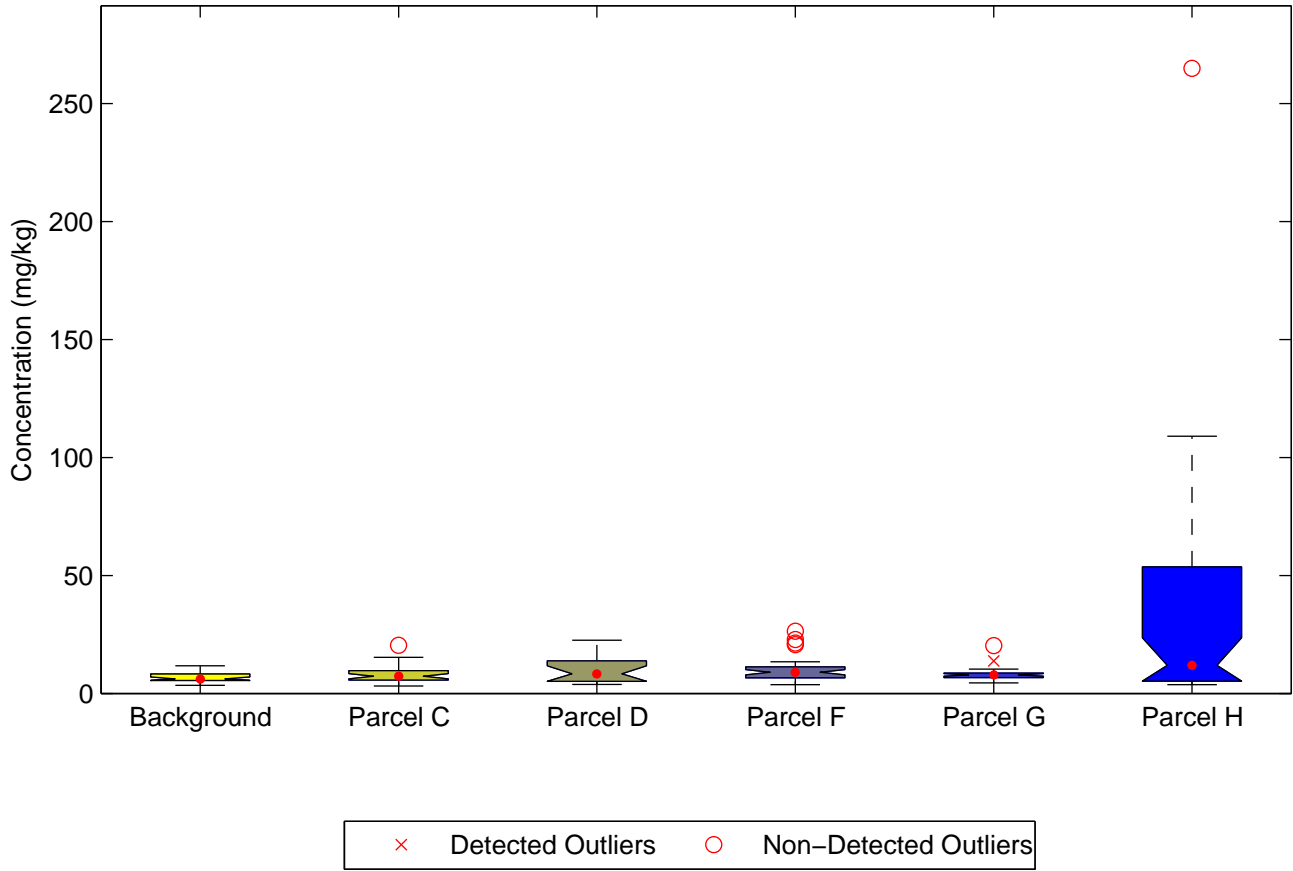
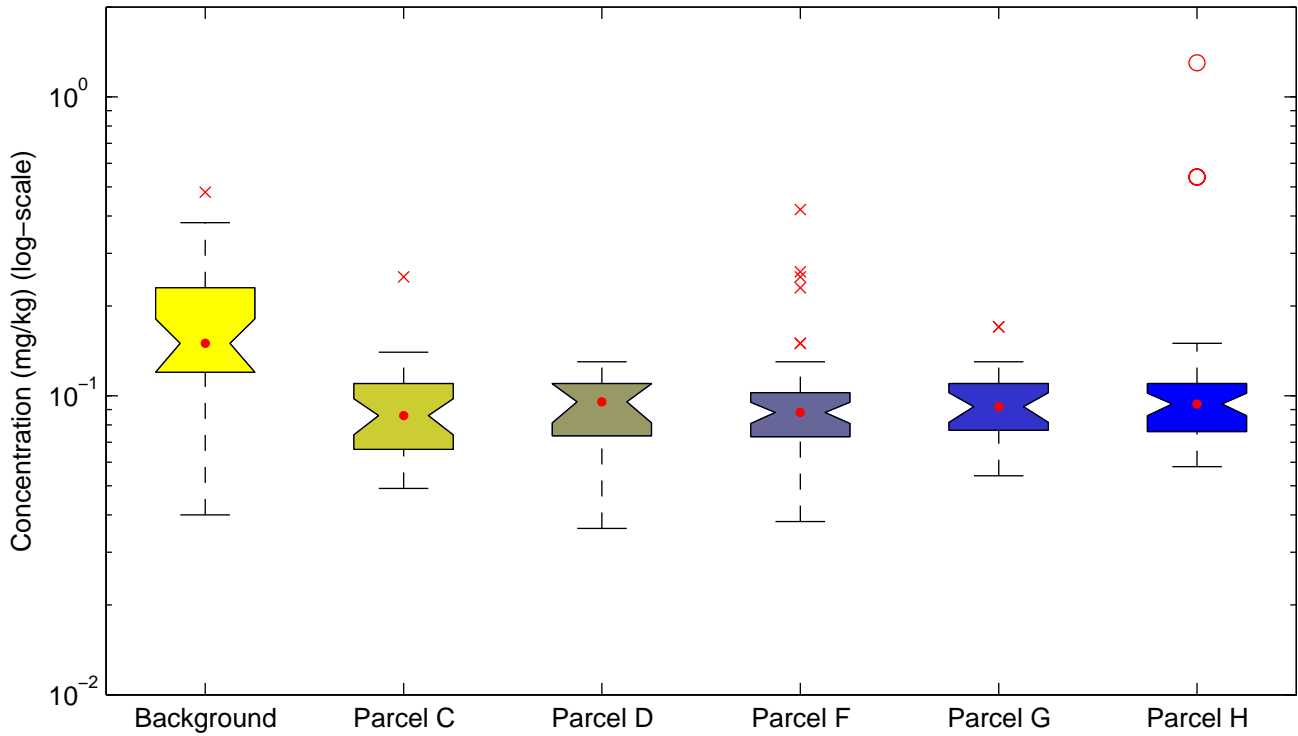
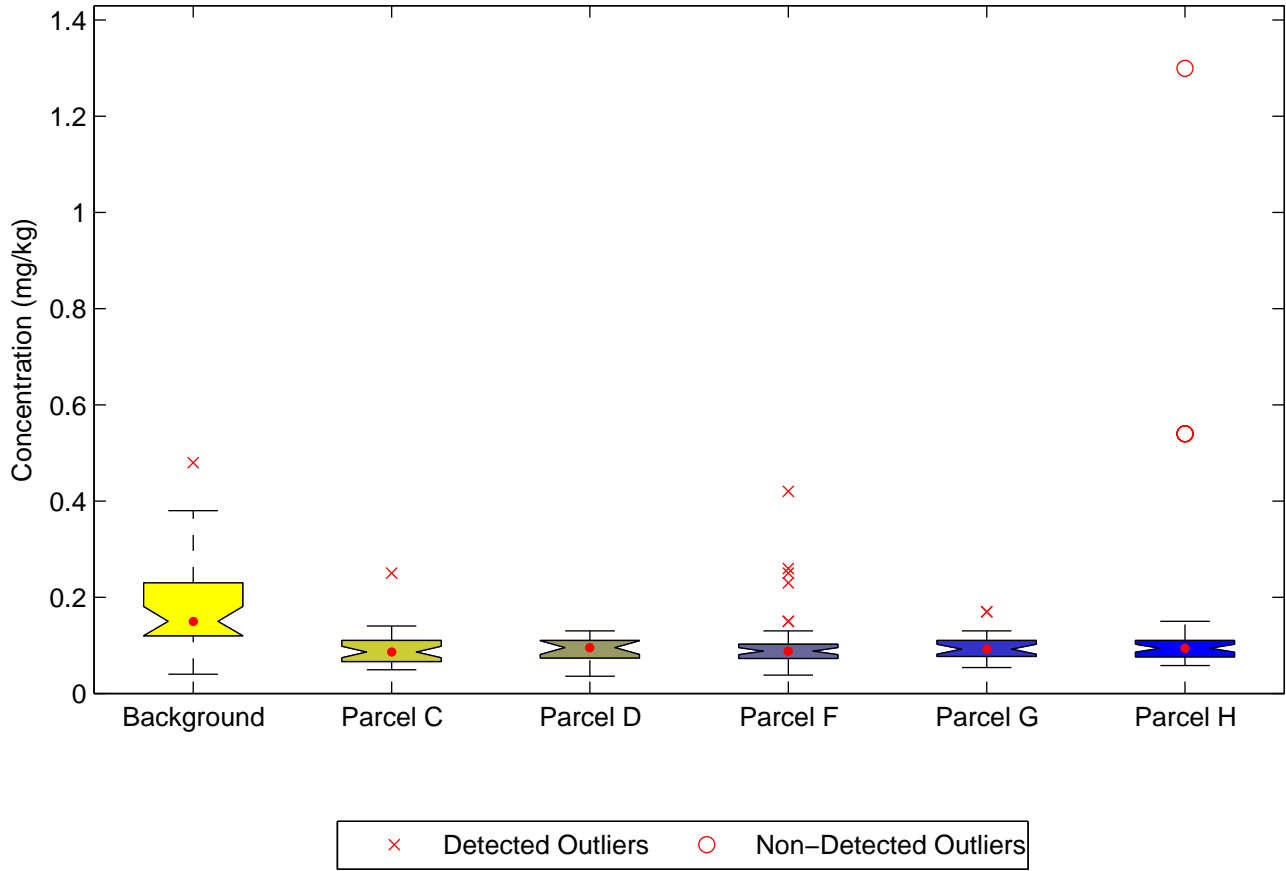


Figure 1–7. Background vs. Site Boxplots
Cadmium

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**Figure 1–8. Background vs. Site Boxplots
Chromium (Total)**

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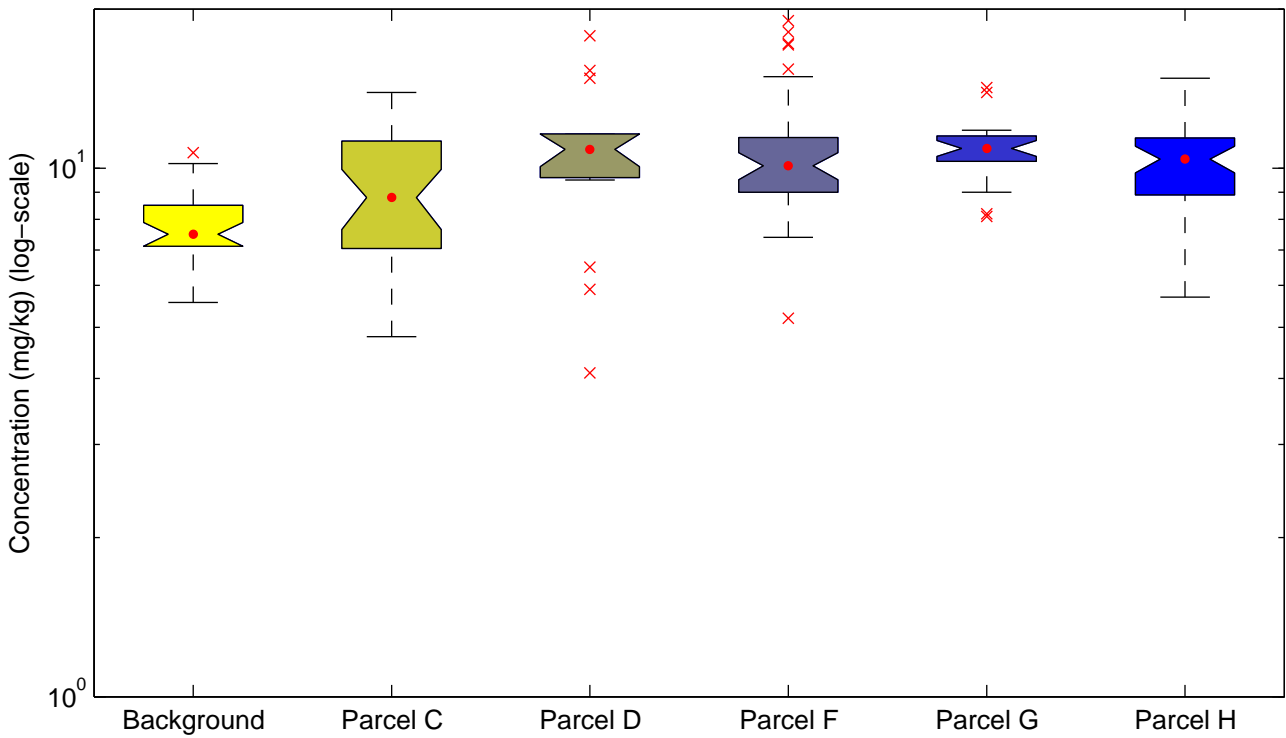
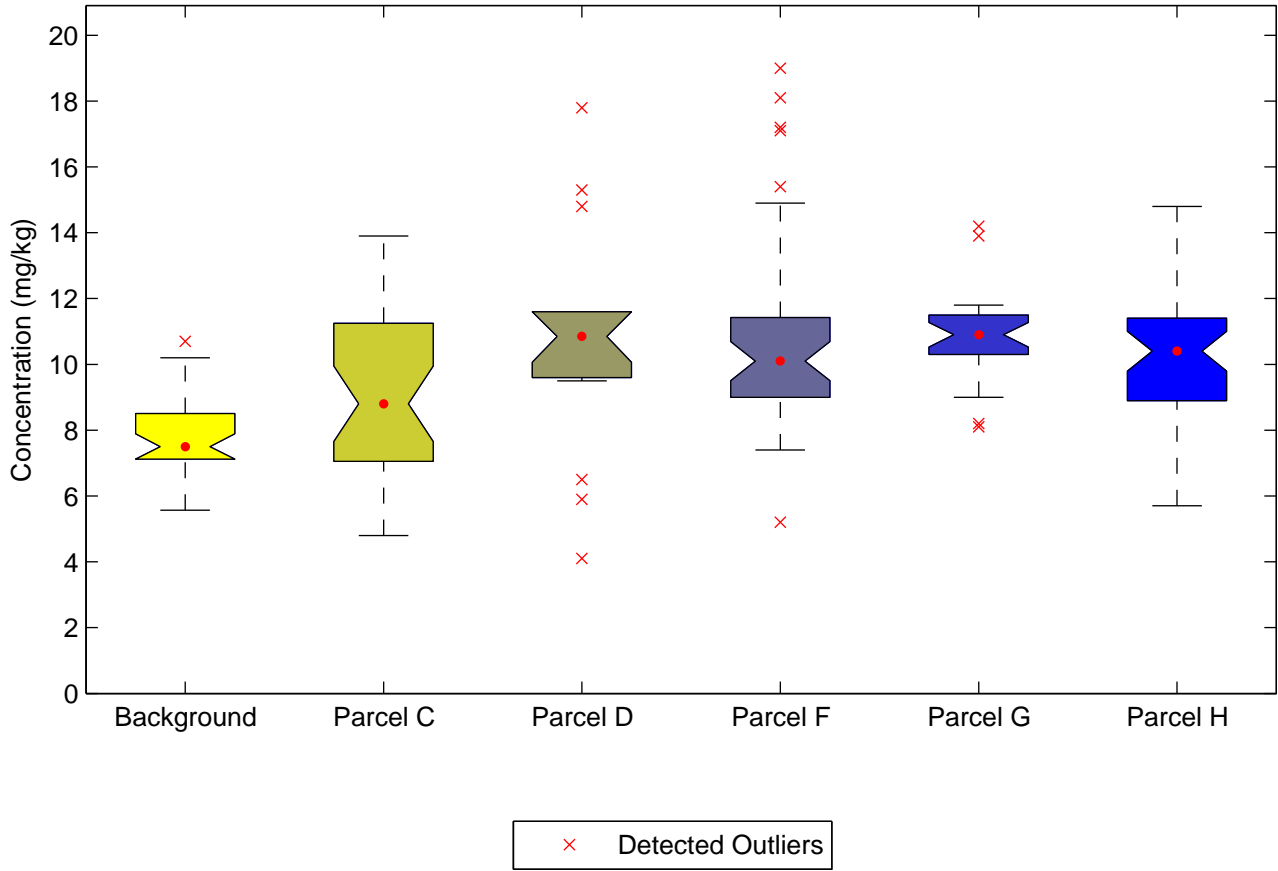


Figure 1–9. Background vs. Site Boxplots
Chromium (VI)

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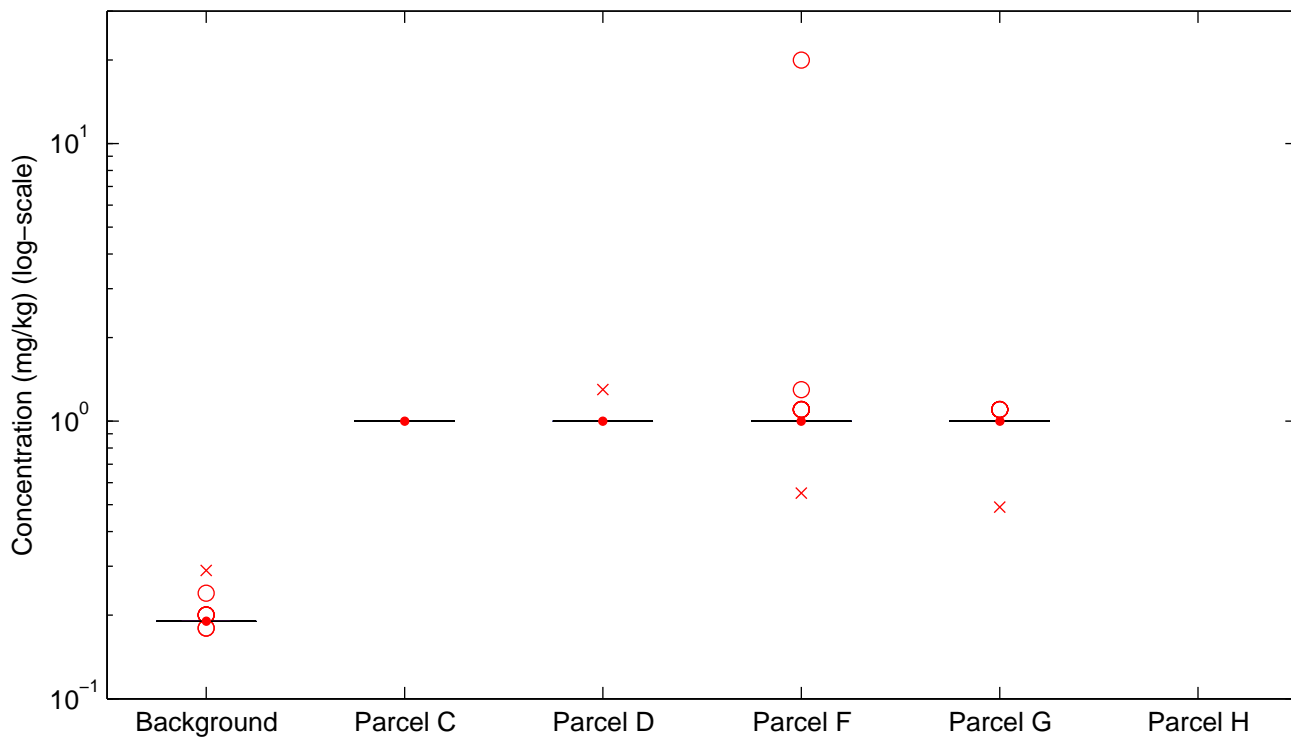
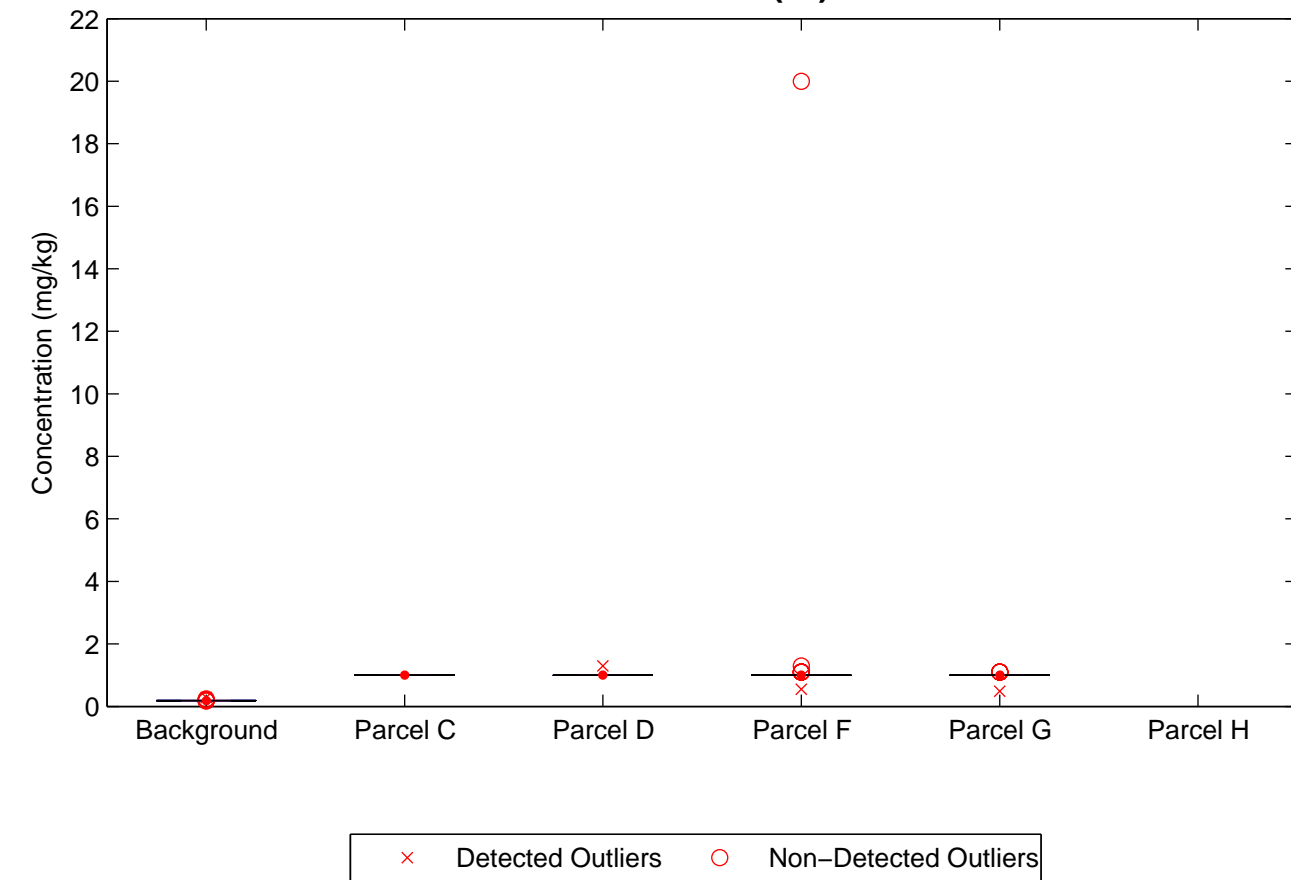
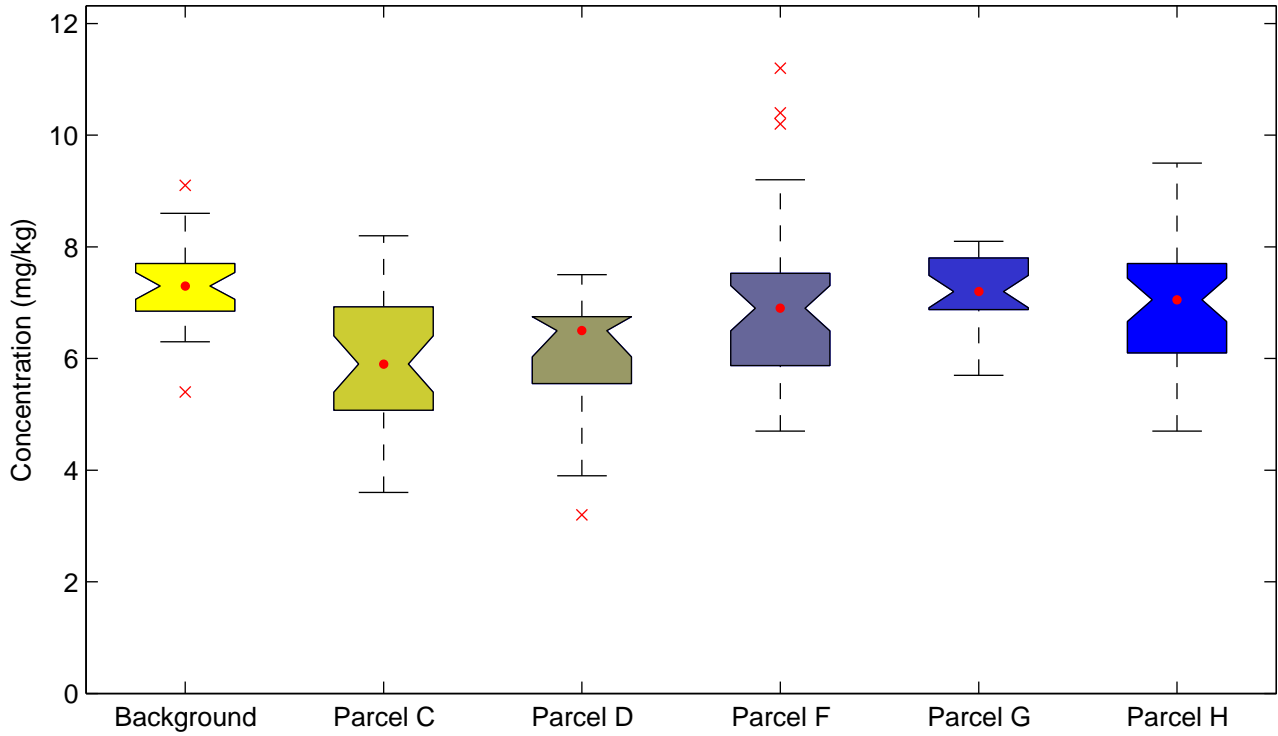


Figure 1–10. Background vs. Site Boxplots
Cobalt

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x Detected Outliers

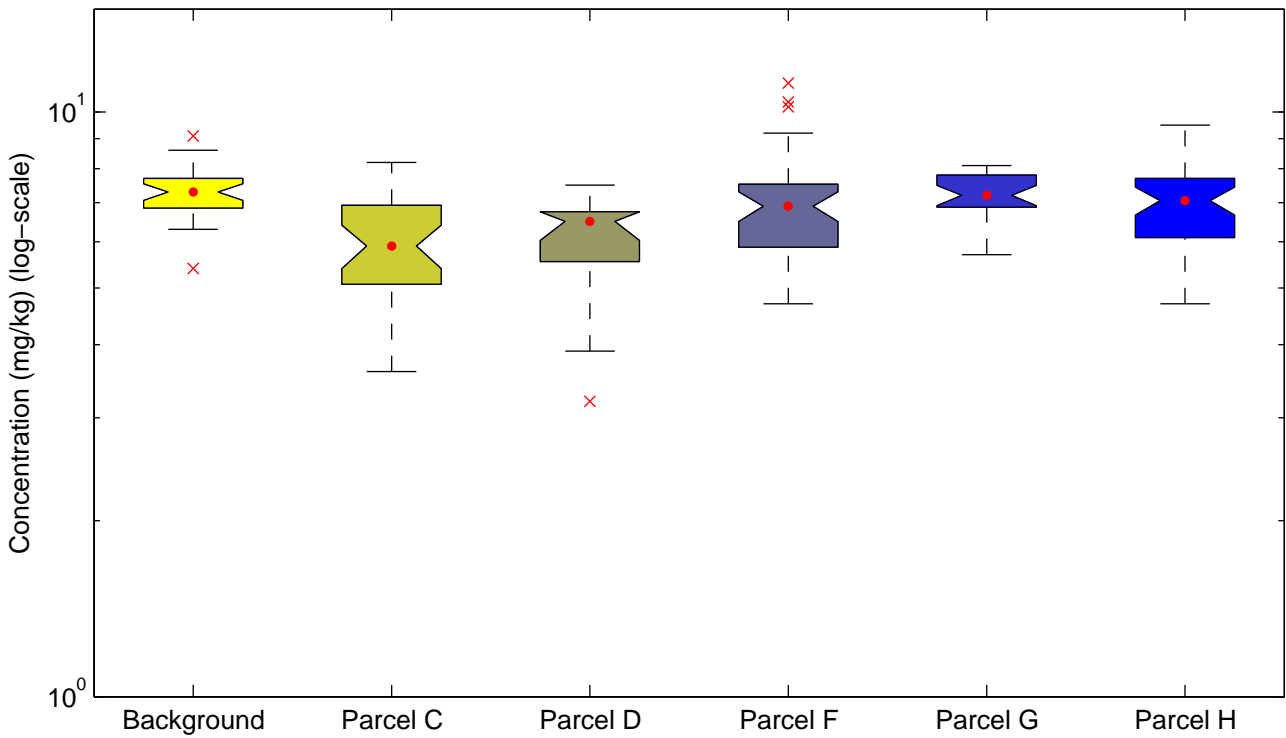


Figure 1-11. Background vs. Site Boxplots
Copper

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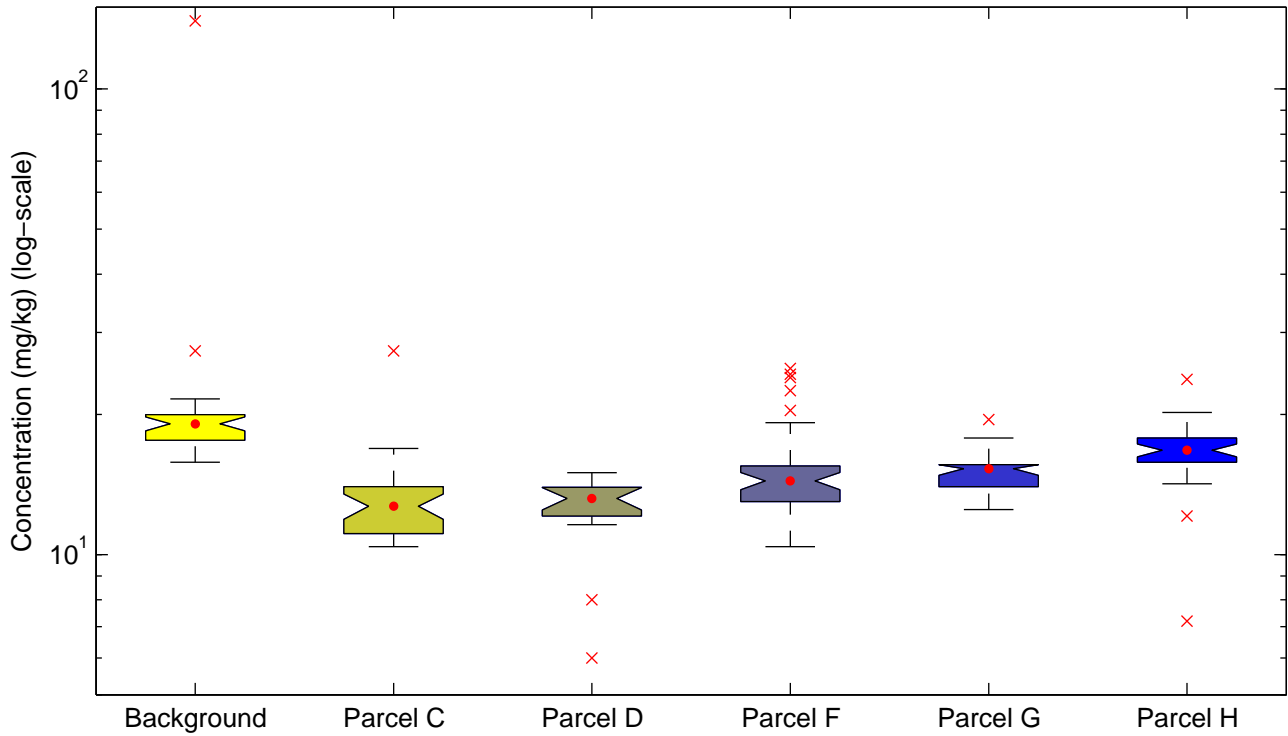
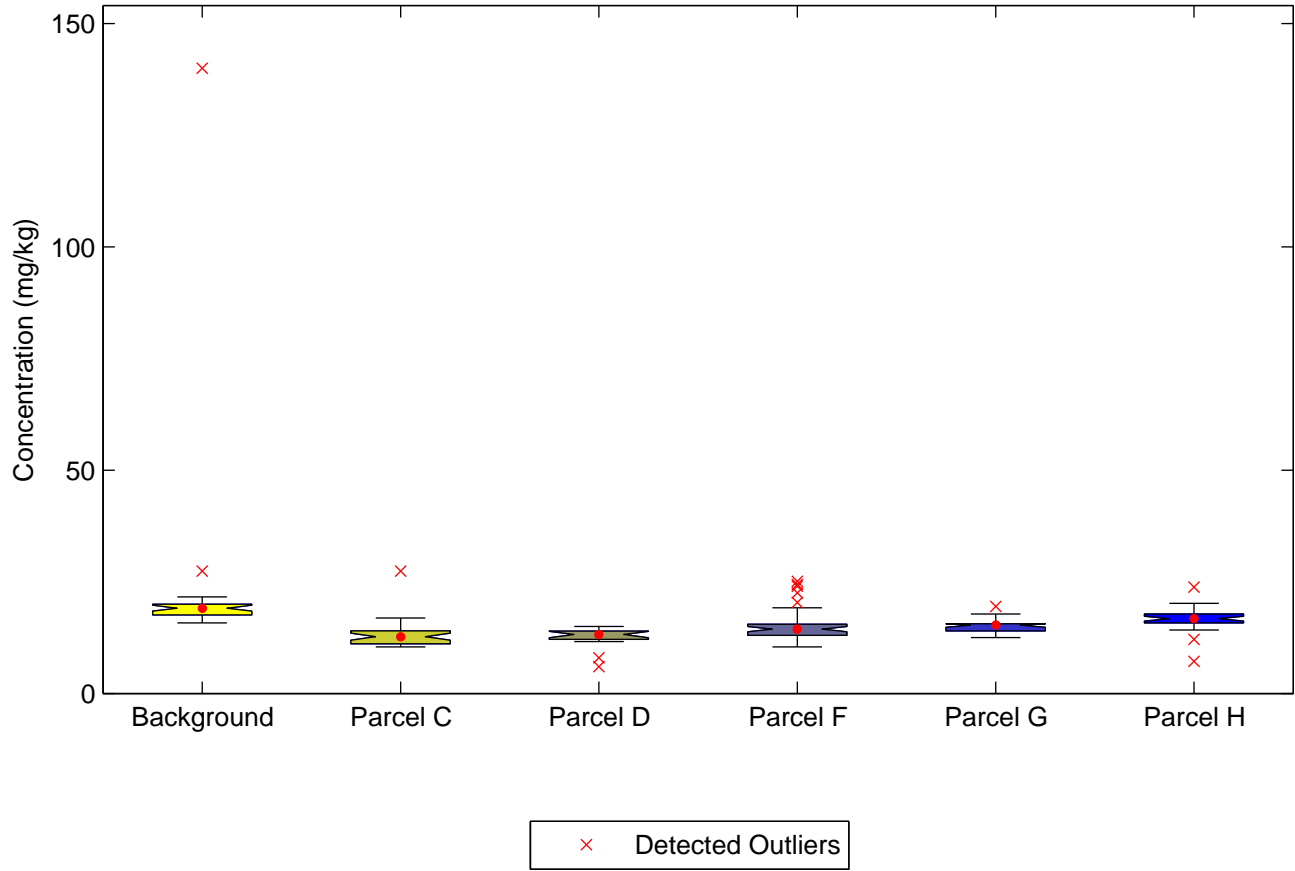


Figure 1–12. Background vs. Site Boxplots

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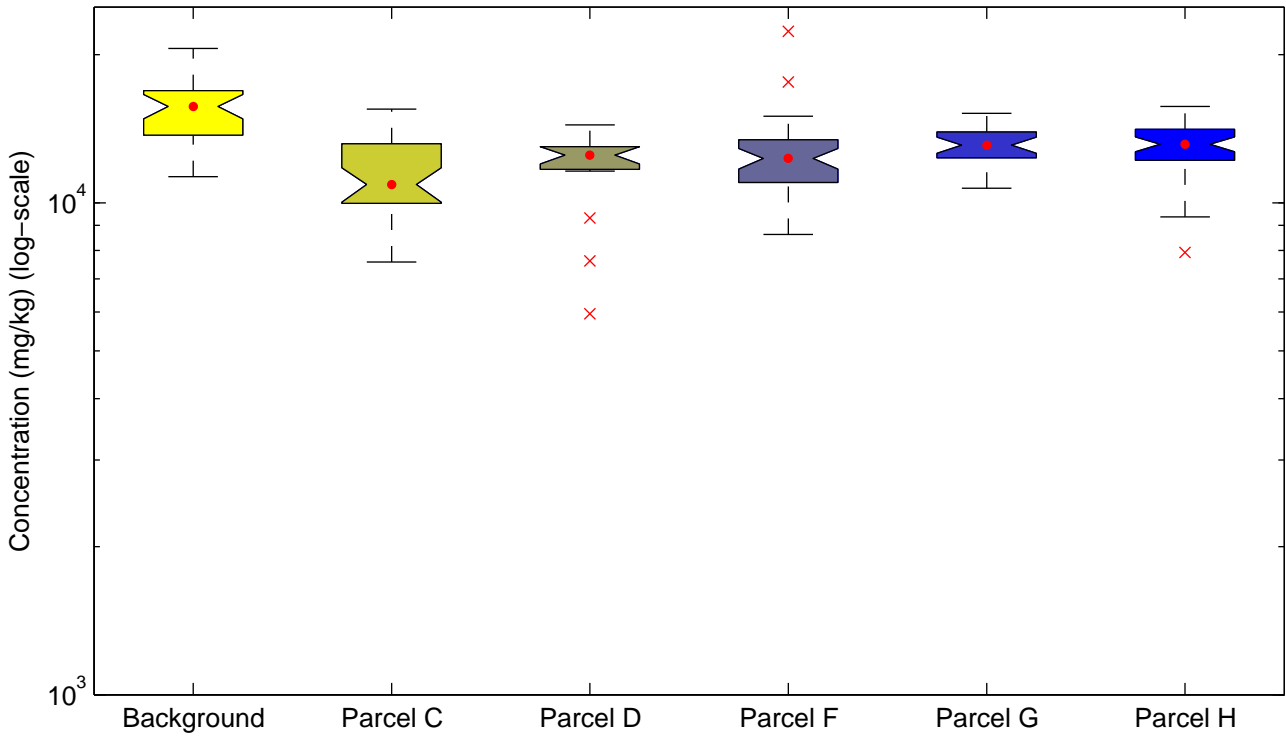
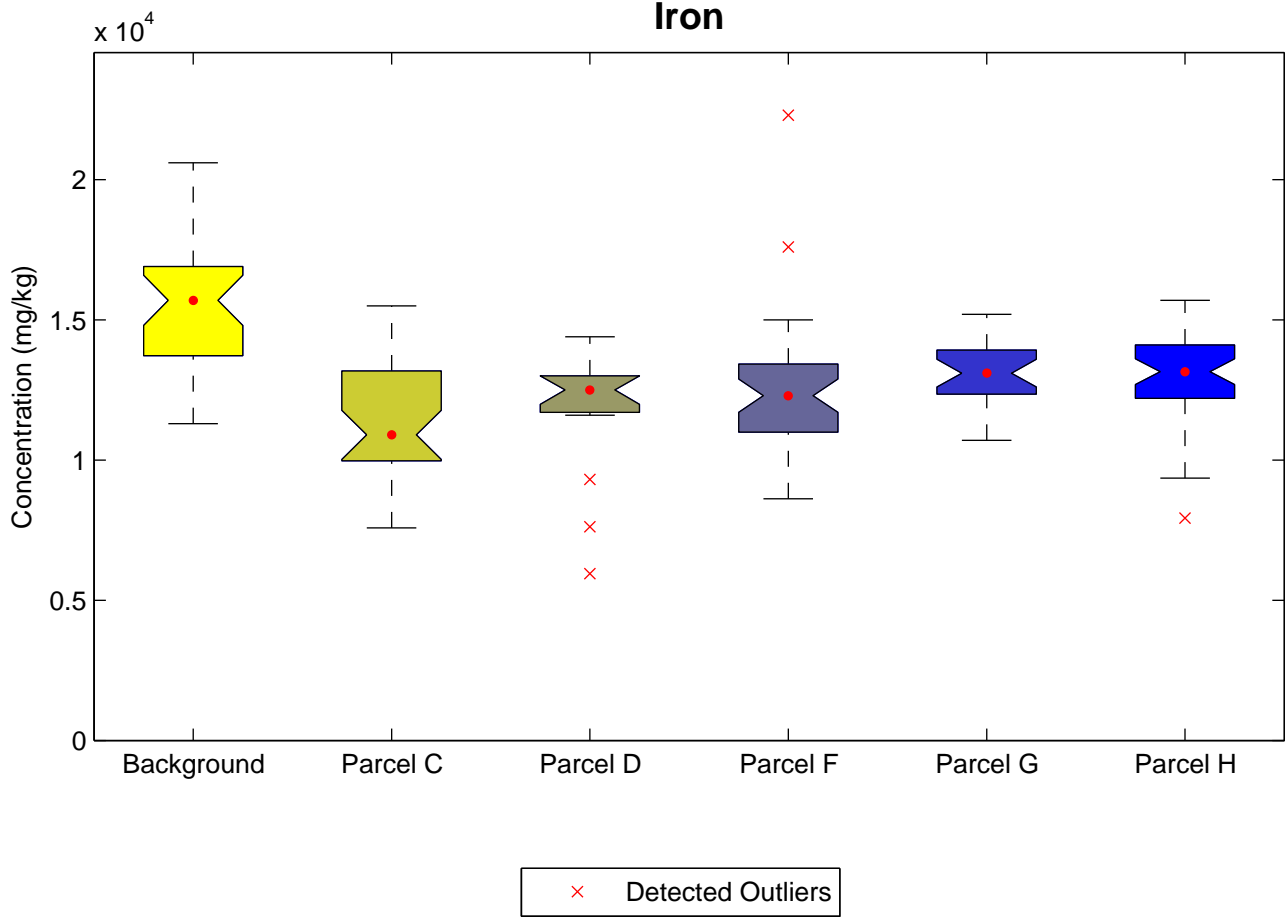


Figure 1–13. Background vs. Site Boxplots
Lead

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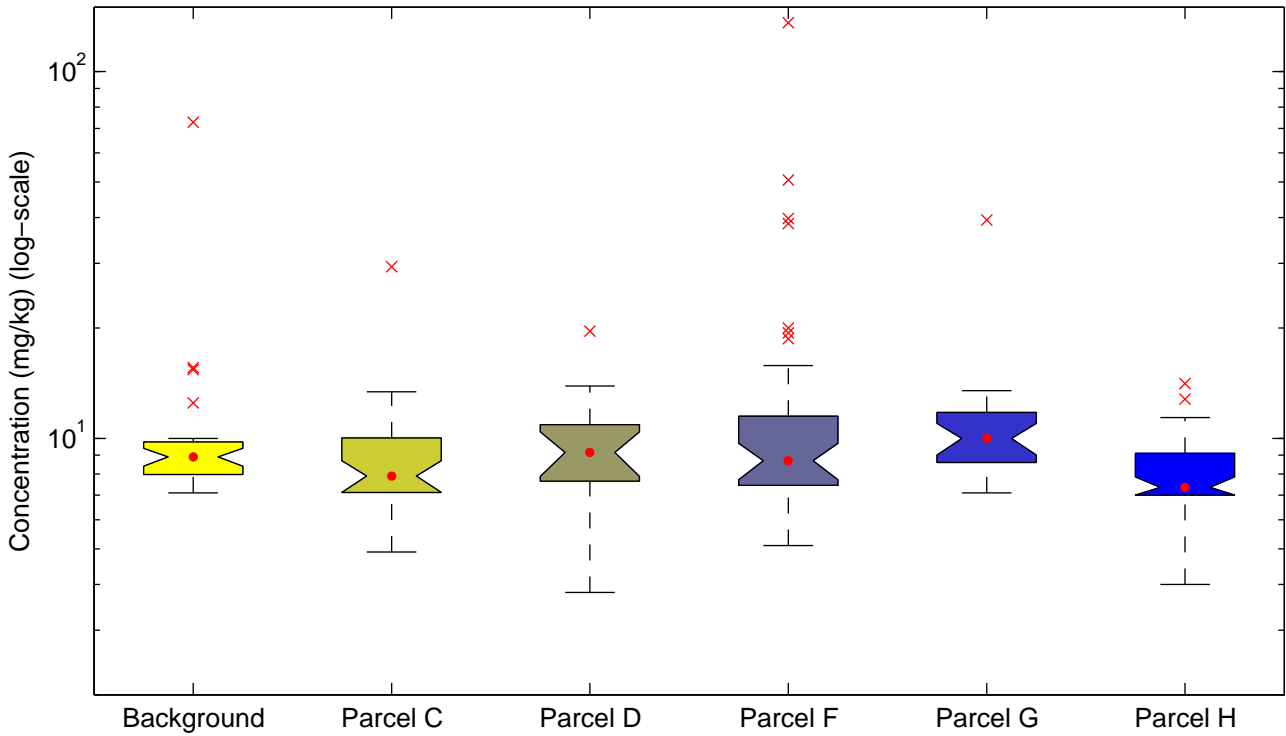
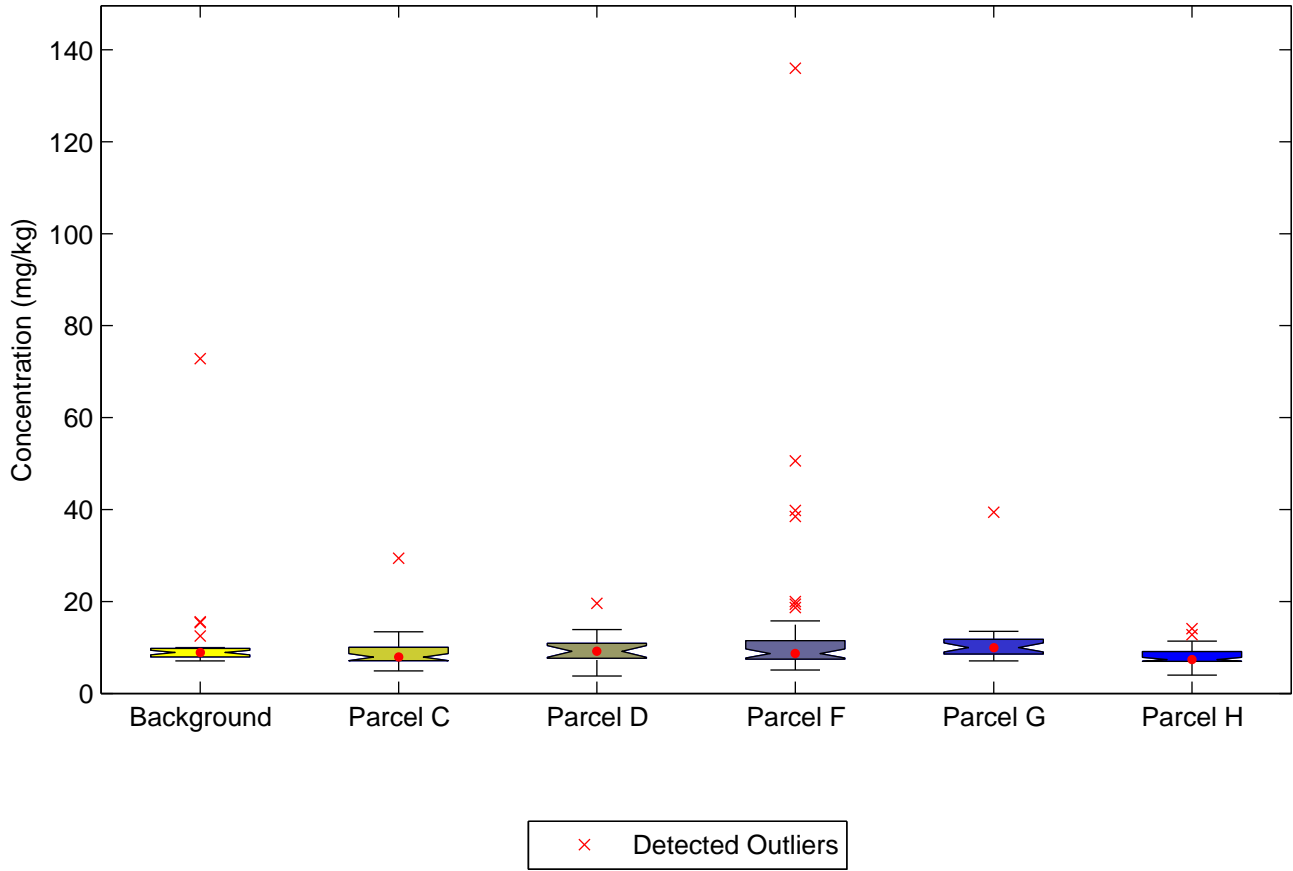


Figure 1–14. Background vs. Site Boxplots
Magnesium

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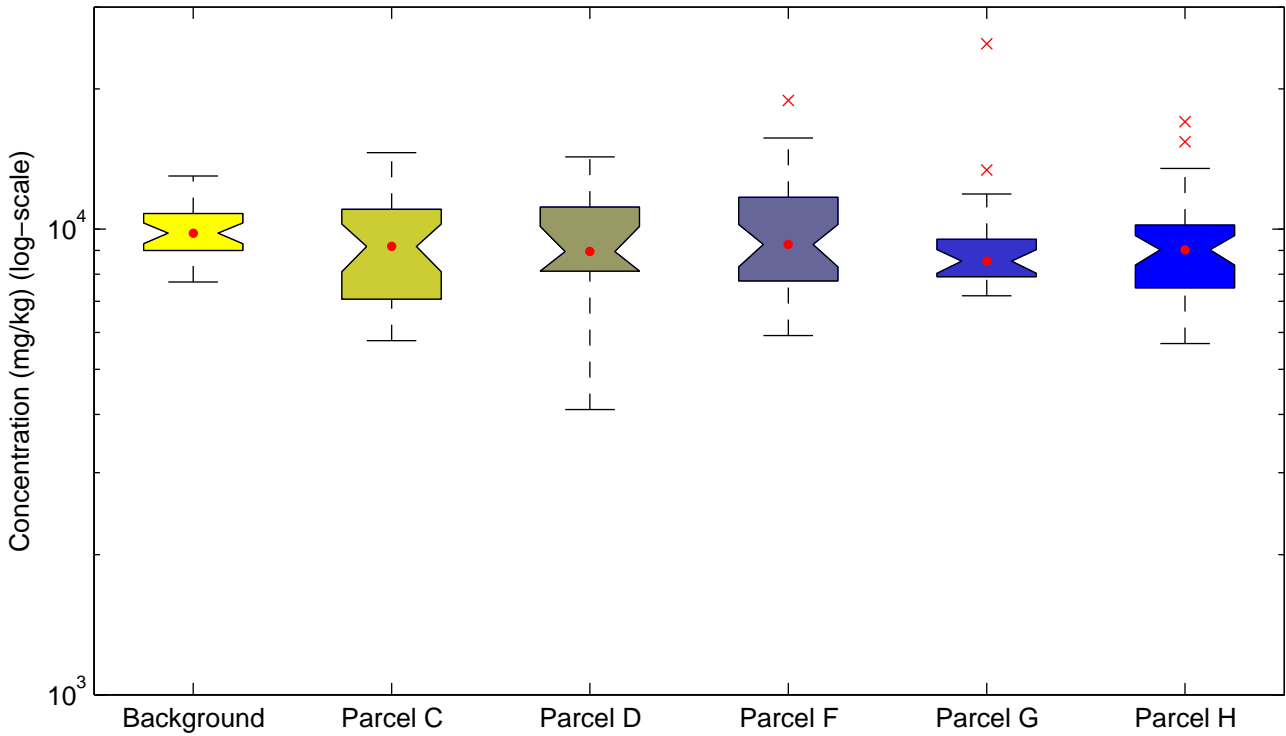
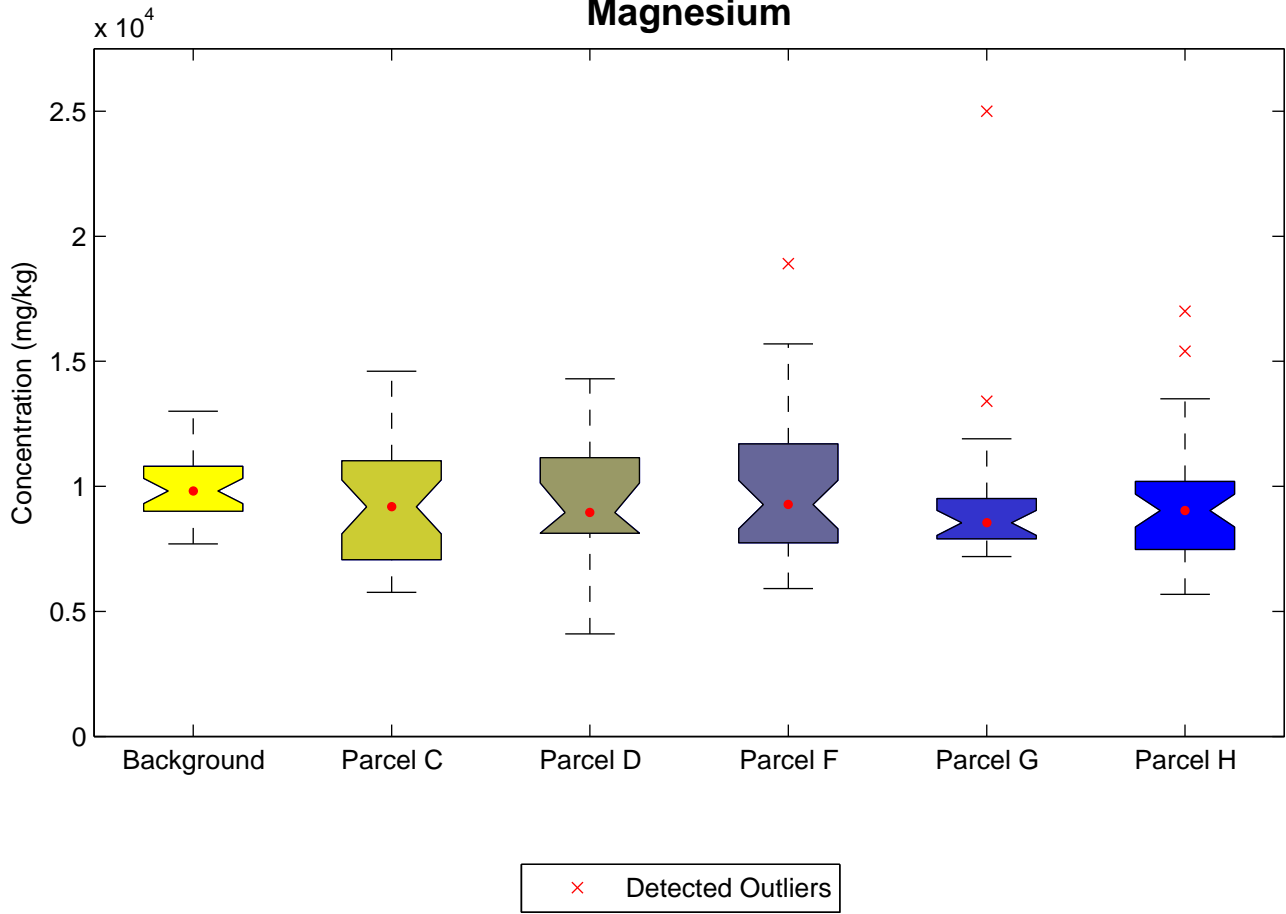
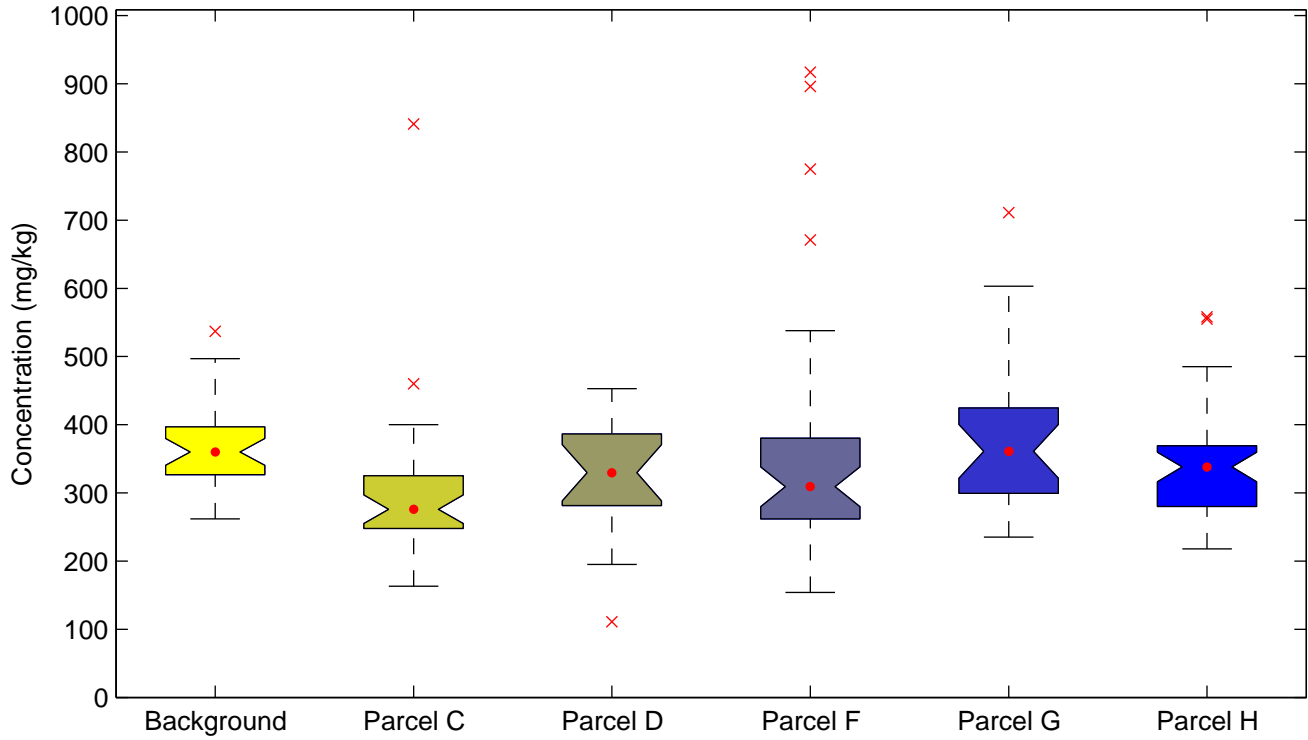


Figure 1–15. Background vs. Site Boxplots
Manganese

DRAFT



x Detected Outliers

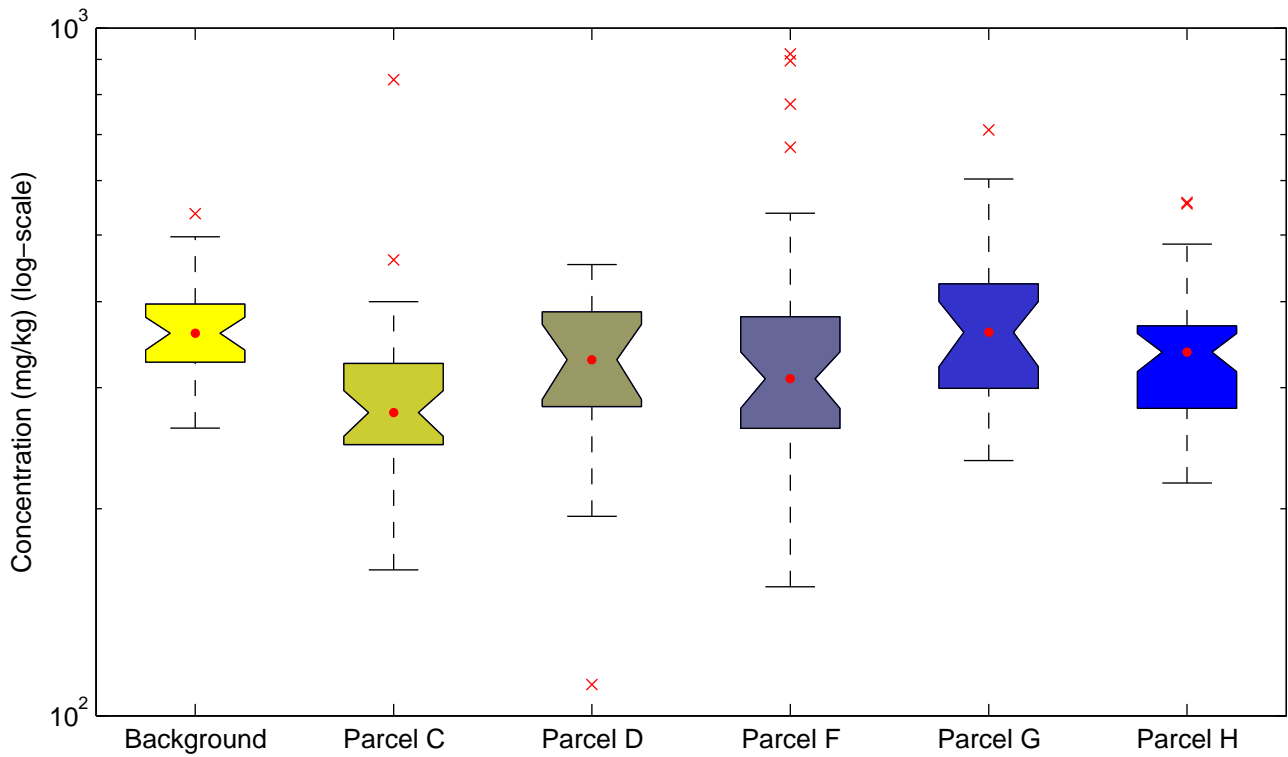


Figure 1-16. Background vs. Site Boxplots
Mercury

DRAFT

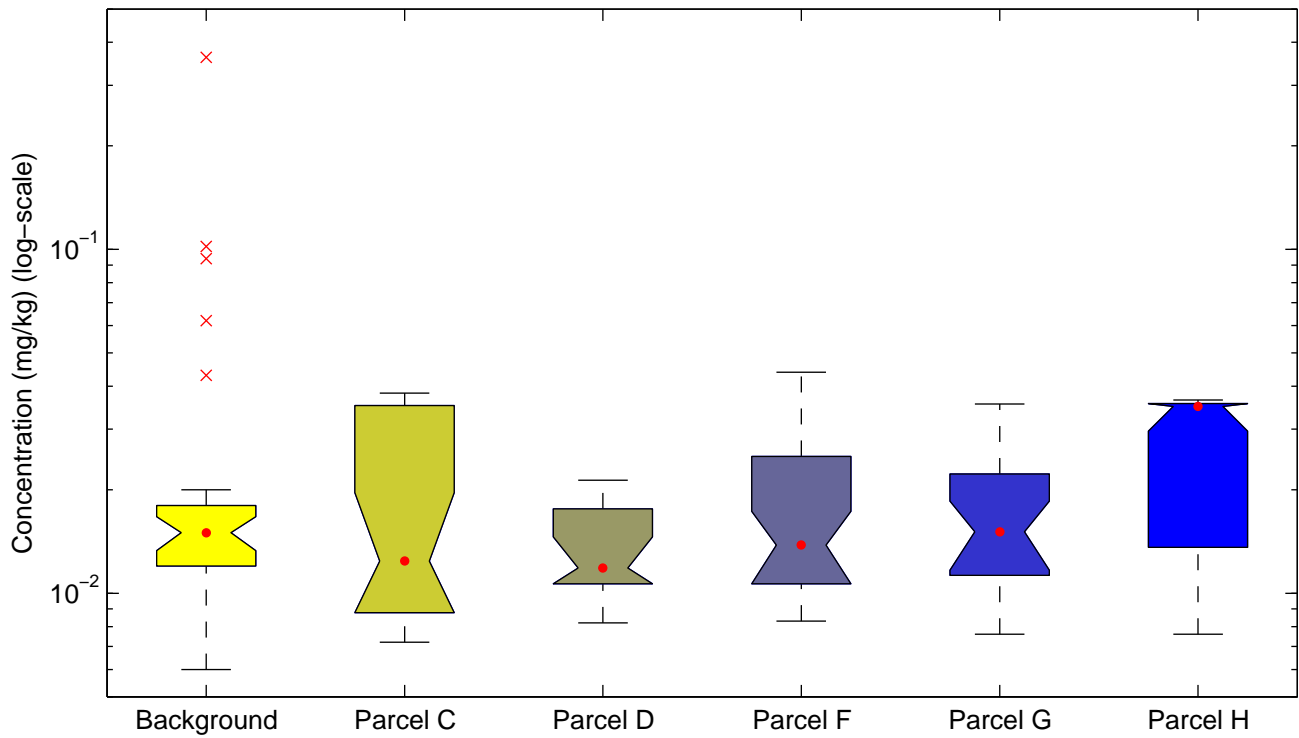
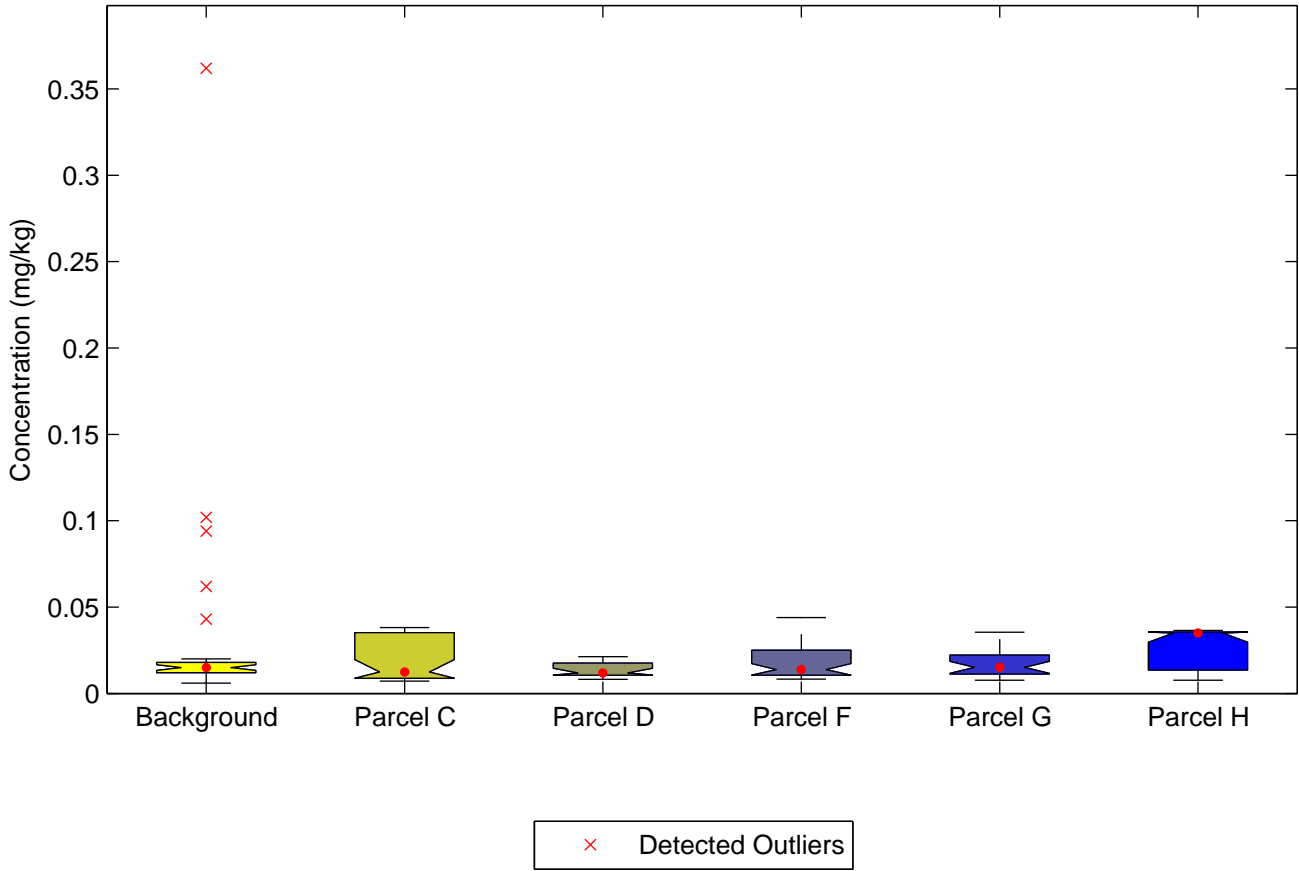
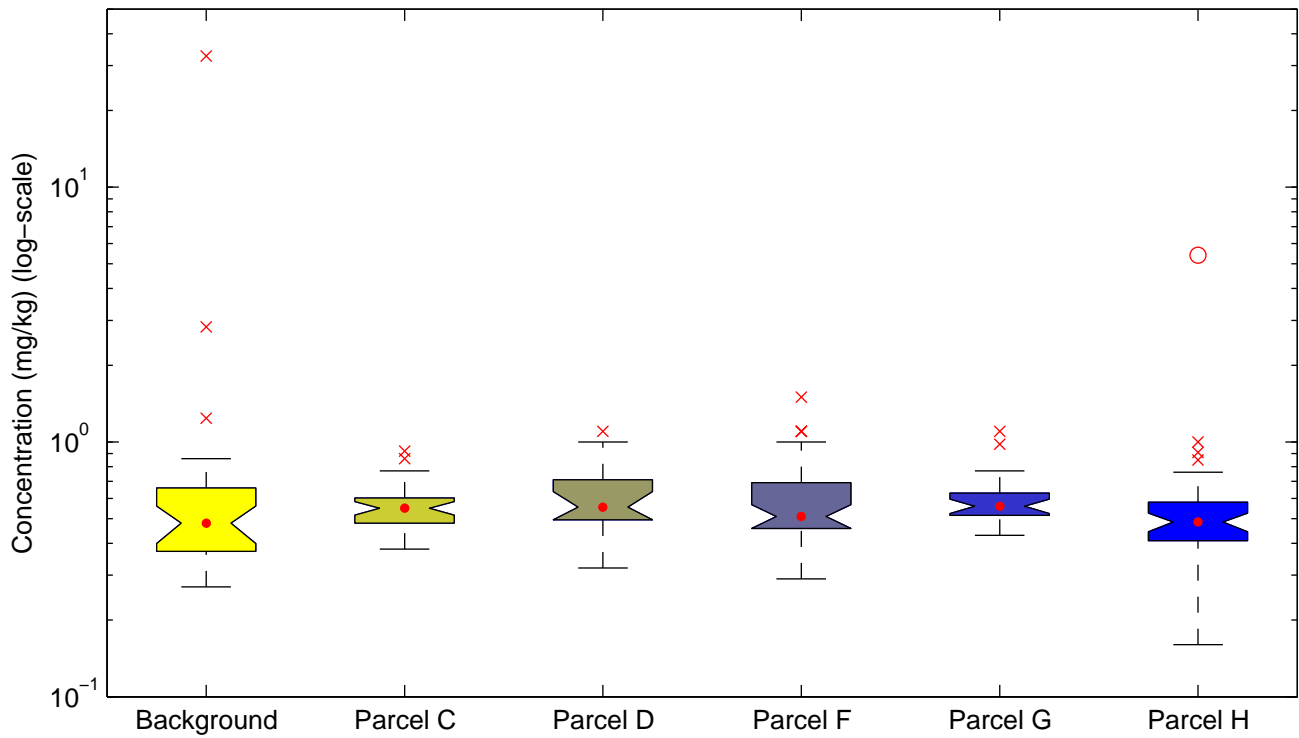
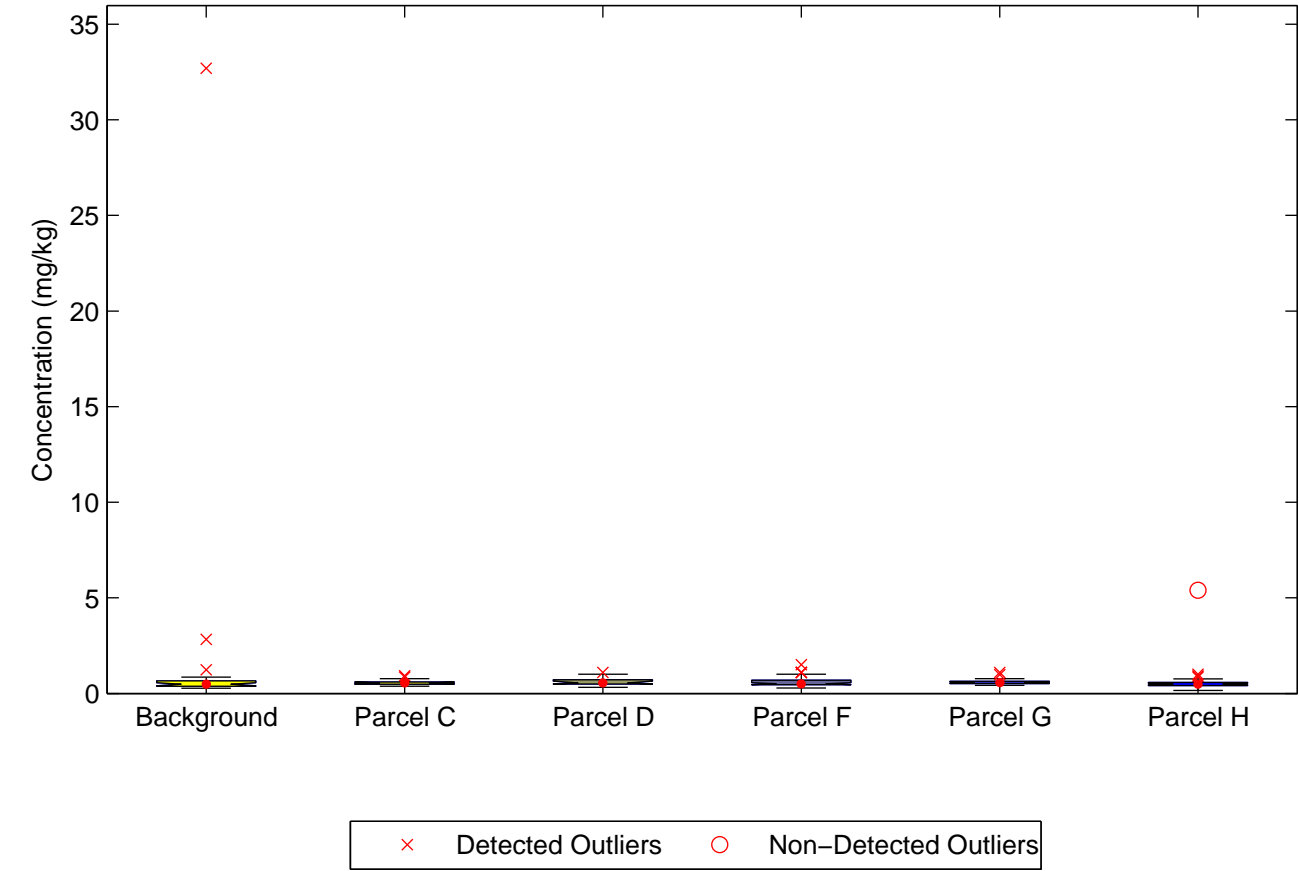


Figure 1-17. Background vs. Site Boxplots
Molybdenum

DRAFT



**Figure 1-18. Background vs. Site Boxplots
Nickel**

DRAFT

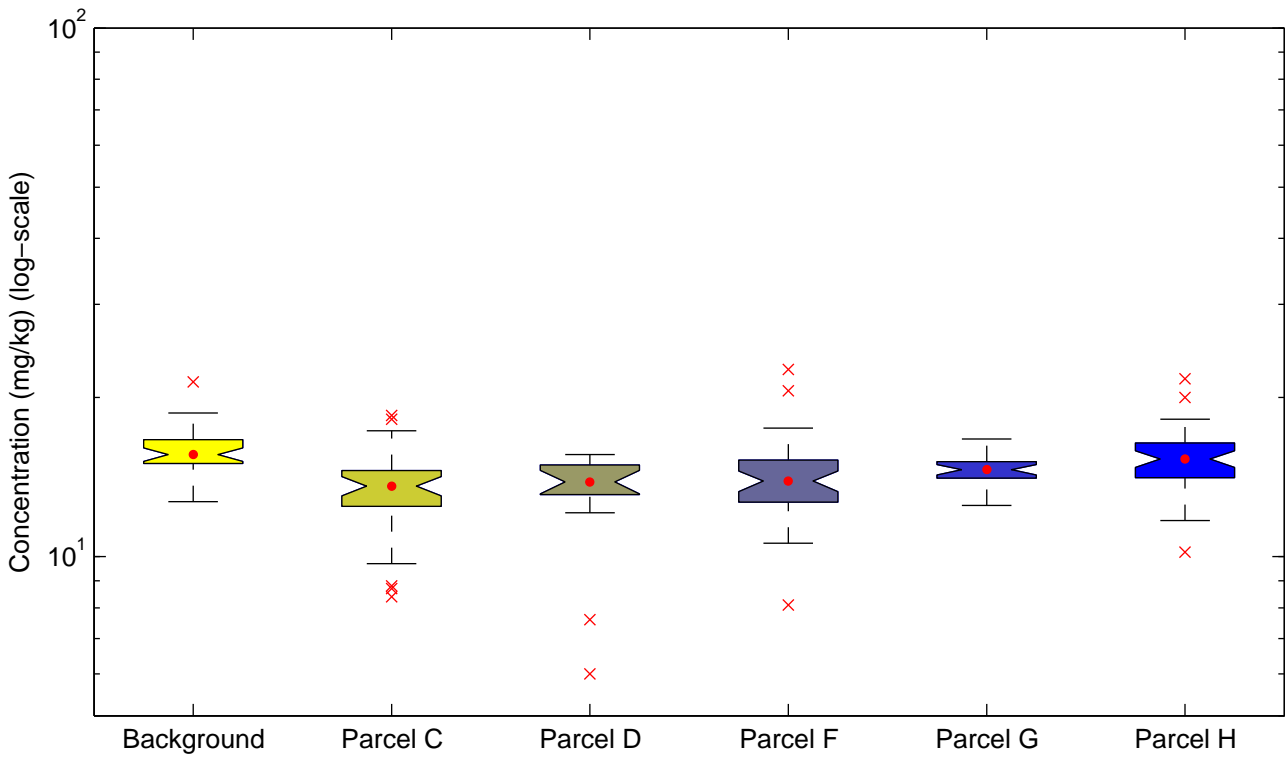
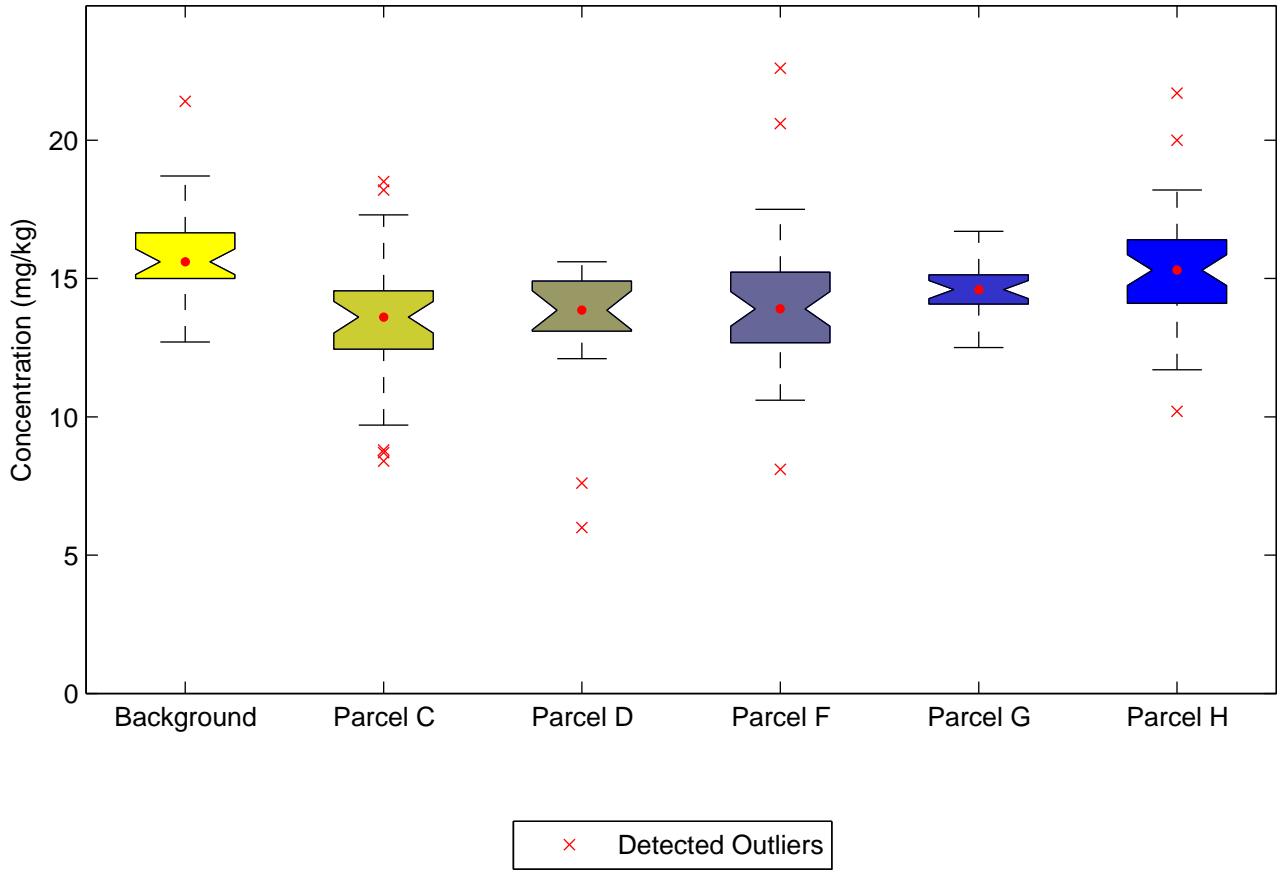
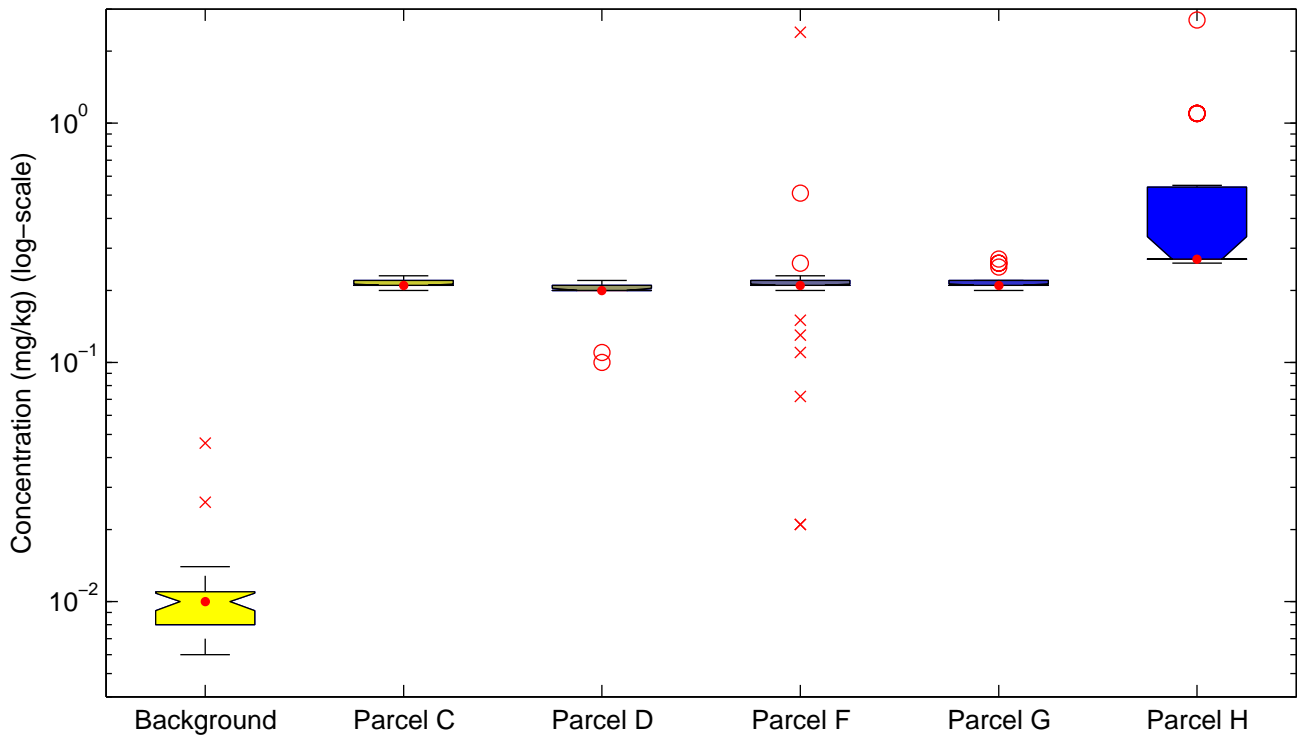
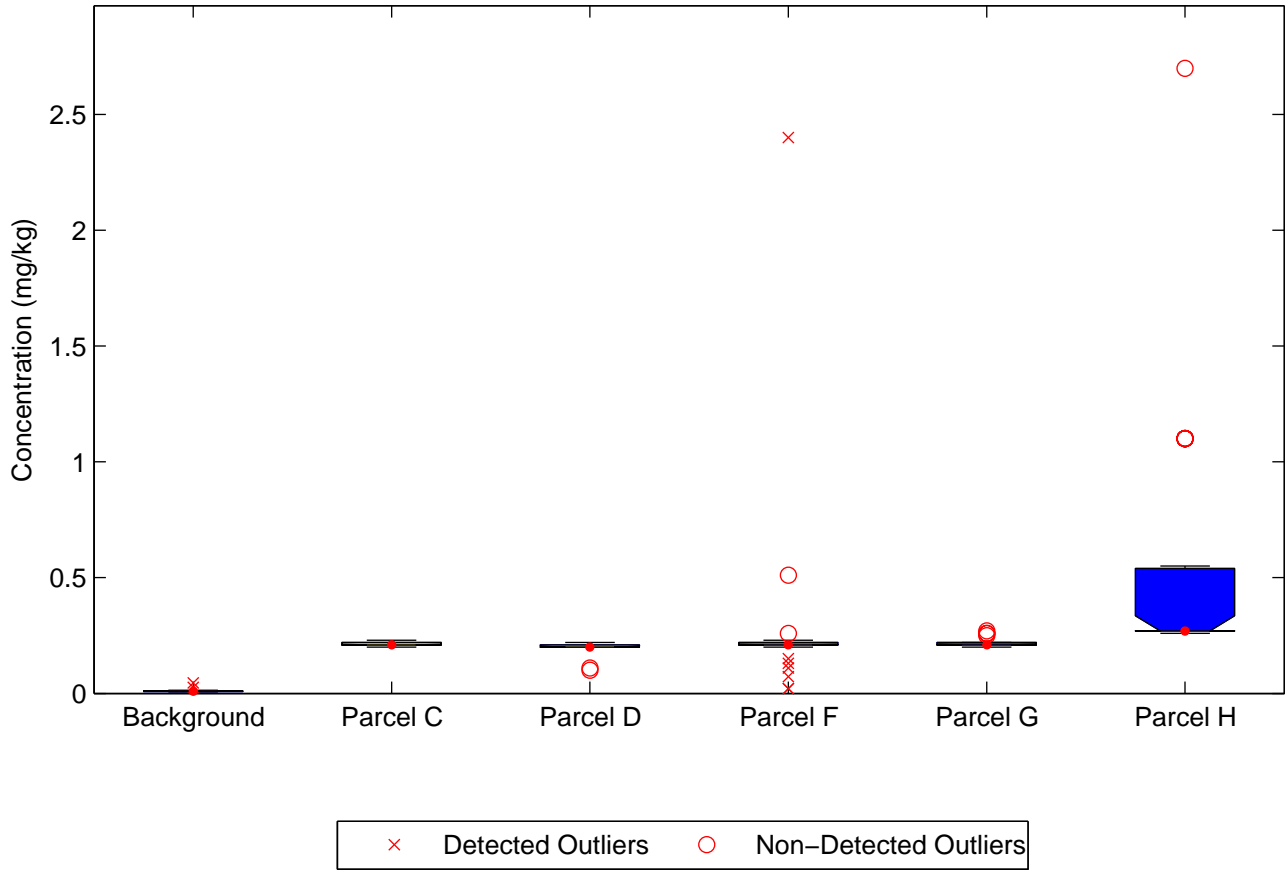


Figure 1-19. Background vs. Site Boxplots
Platinum

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**Figure 1–20. Background vs. Site Boxplots
Potassium**

DRAFT

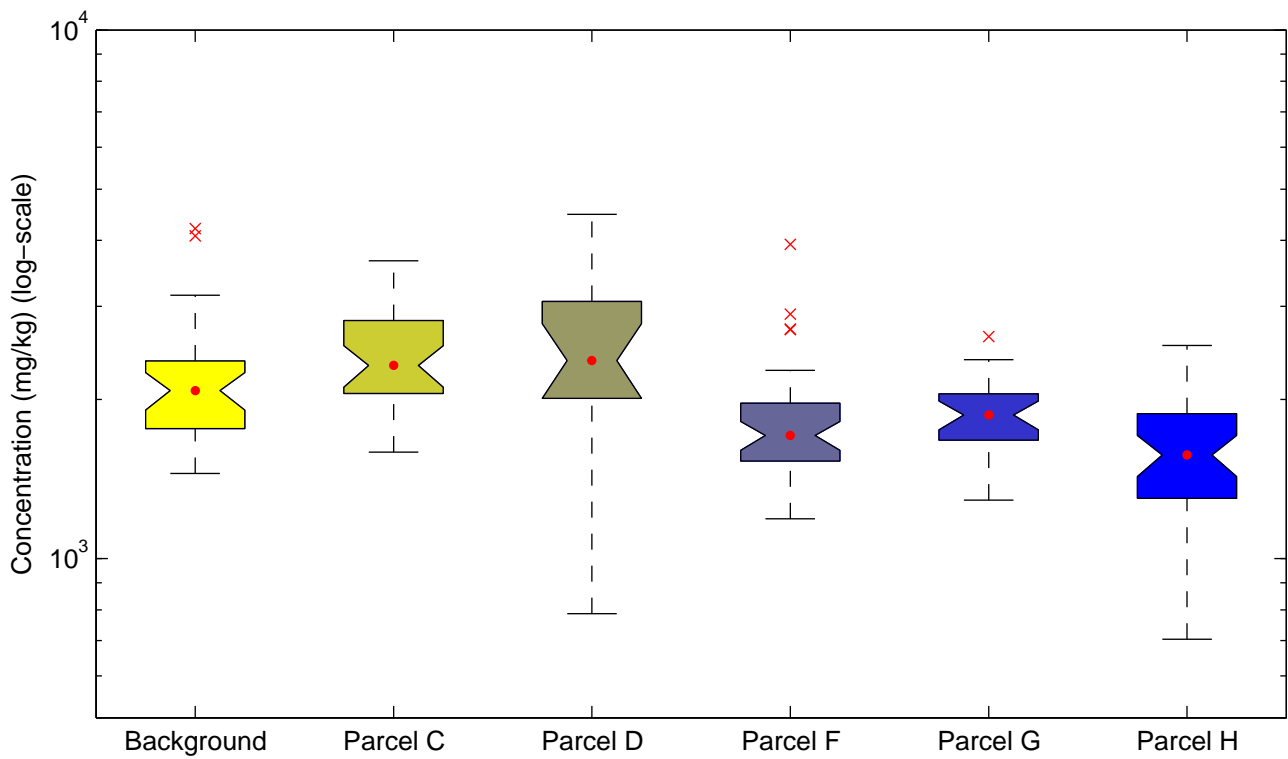
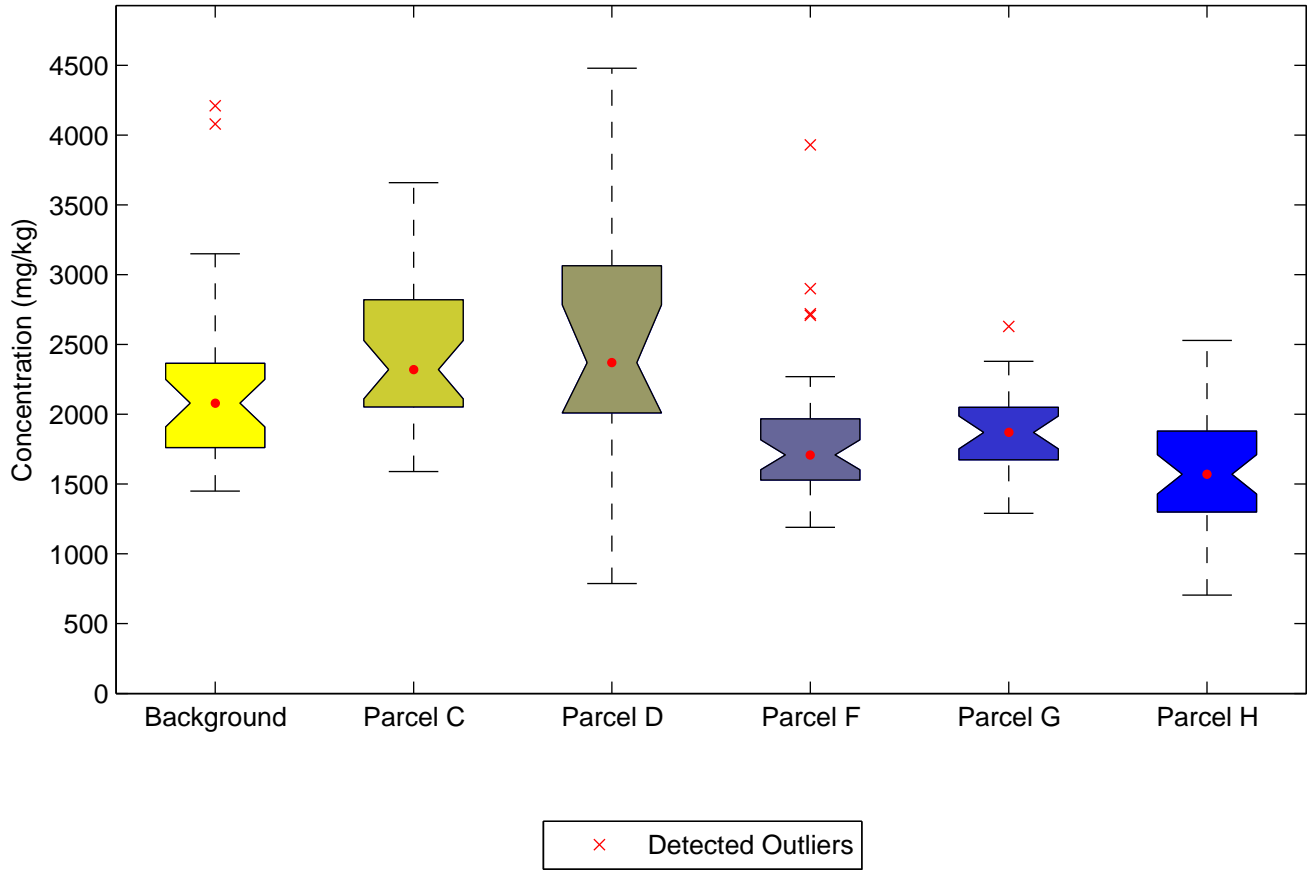
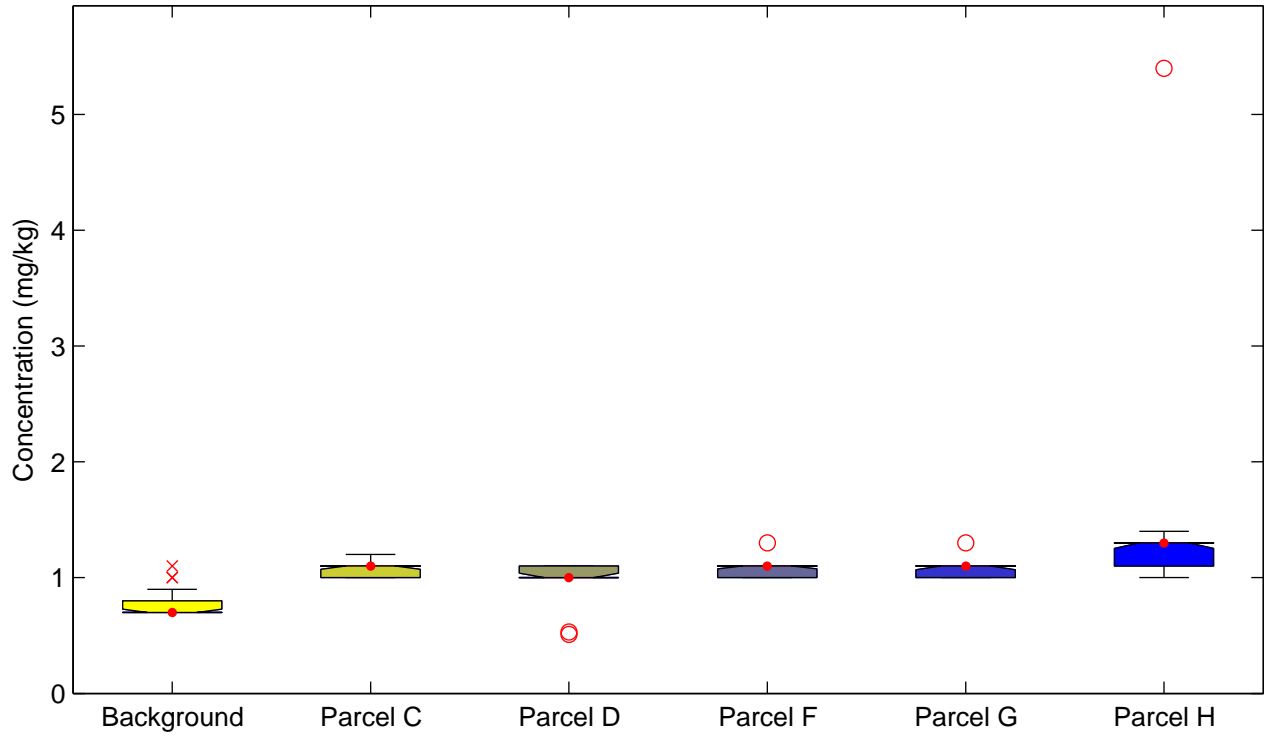


Figure 1–21. Background vs. Site Boxplots
Selenium

DRAFT



× Detected Outliers ○ Non-Detected Outliers

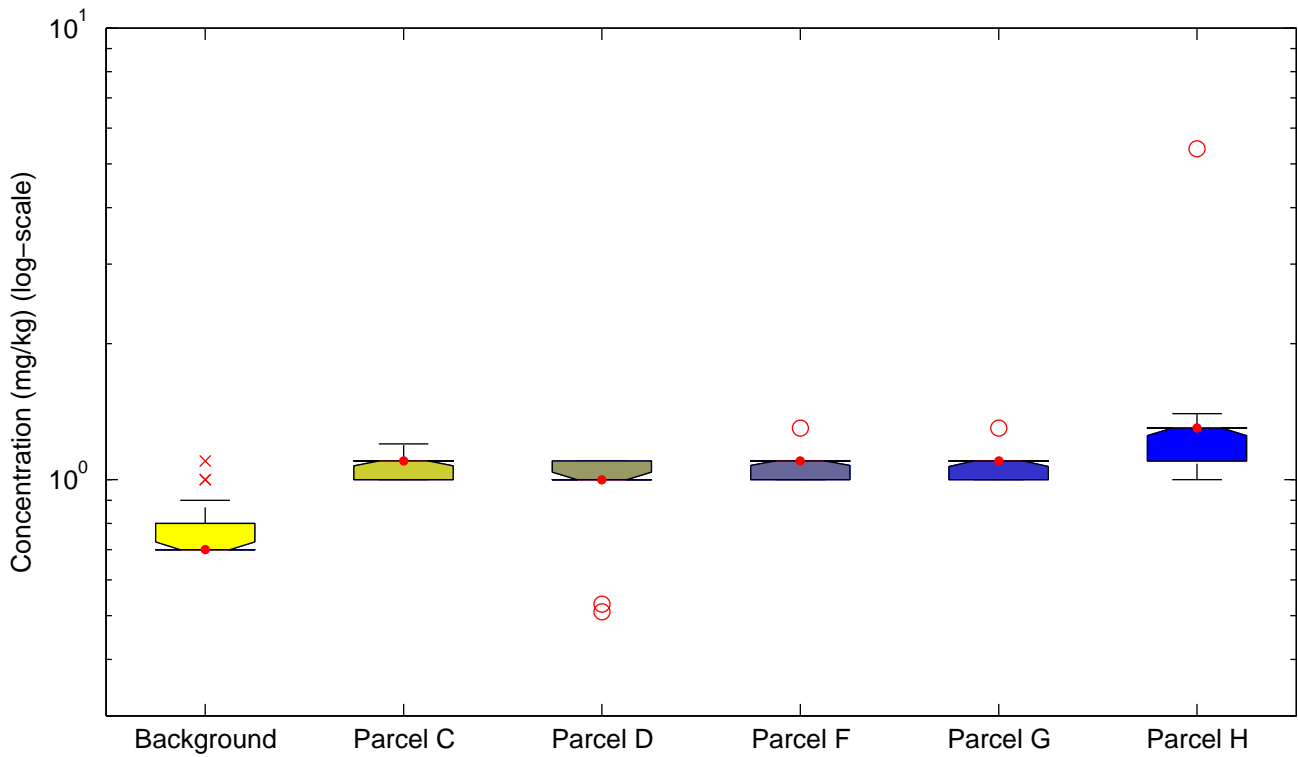


Figure 1–22. Background vs. Site Boxplots
Silver

DRAFT

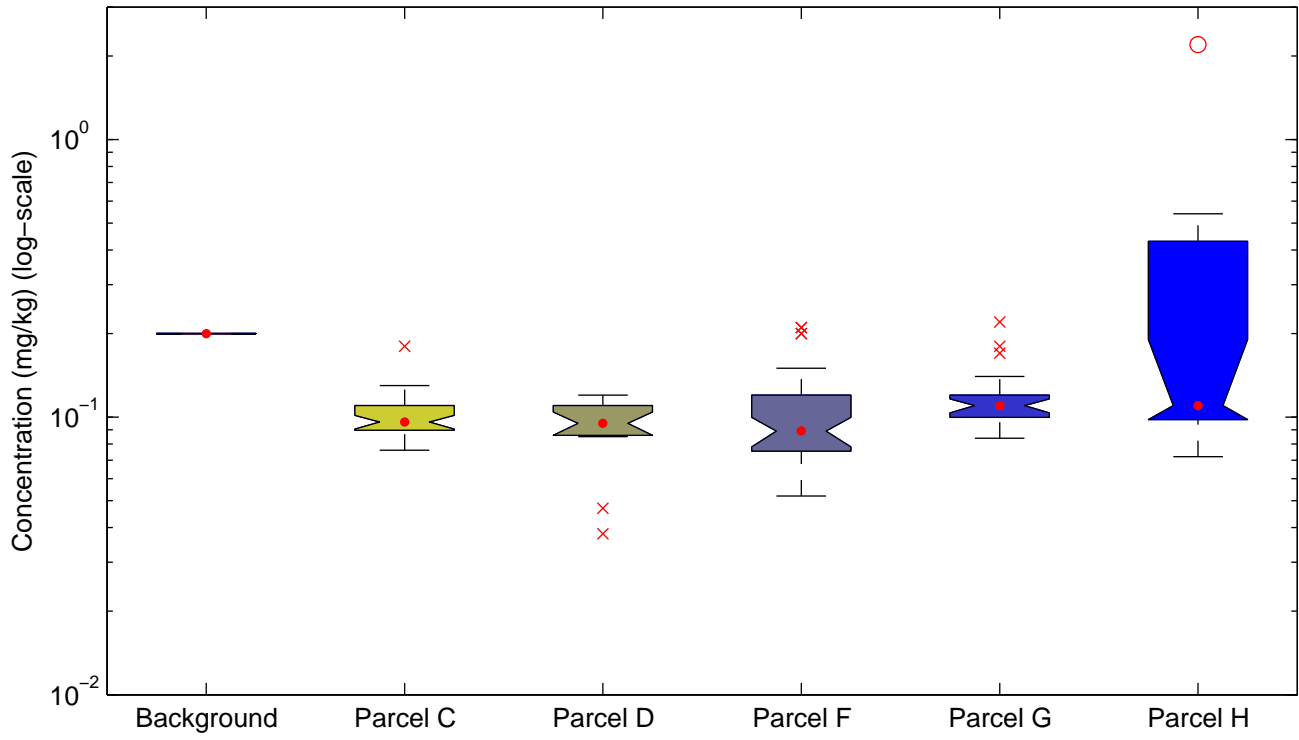
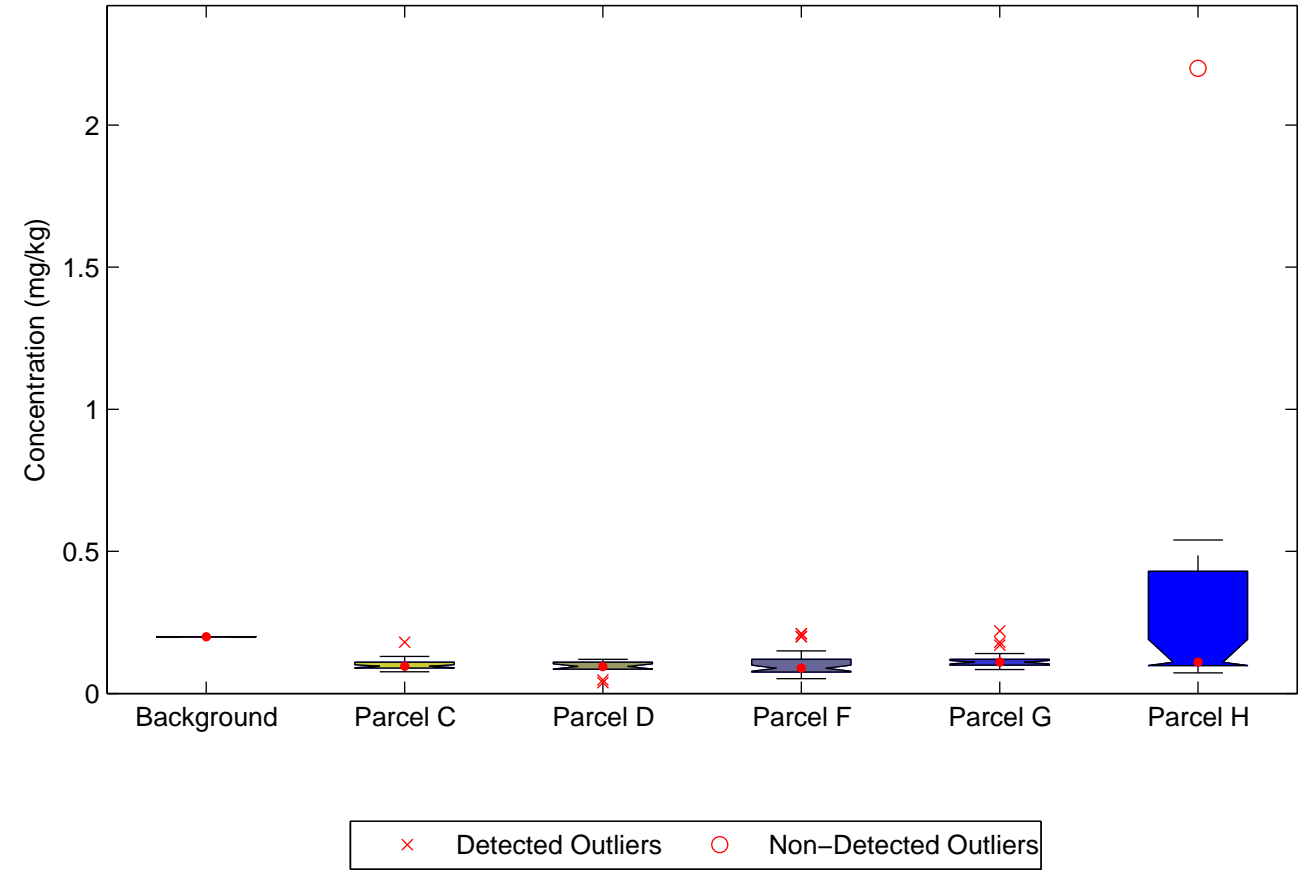
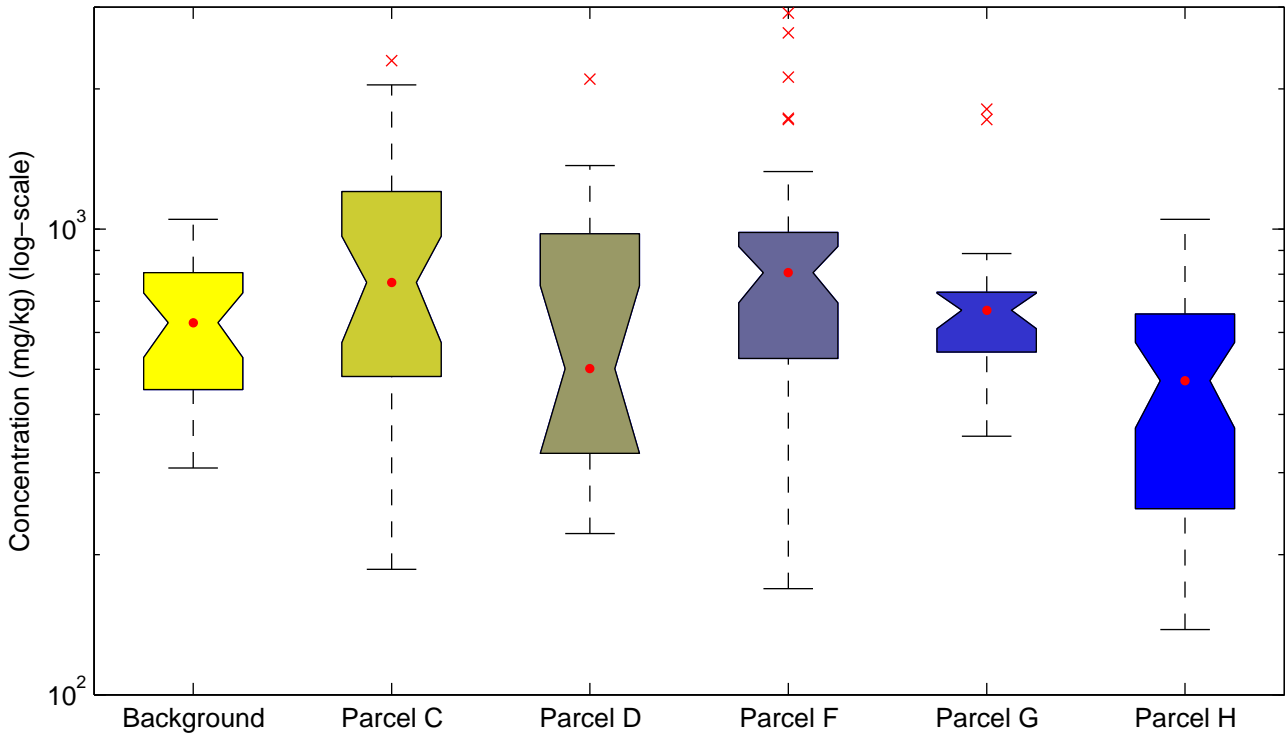
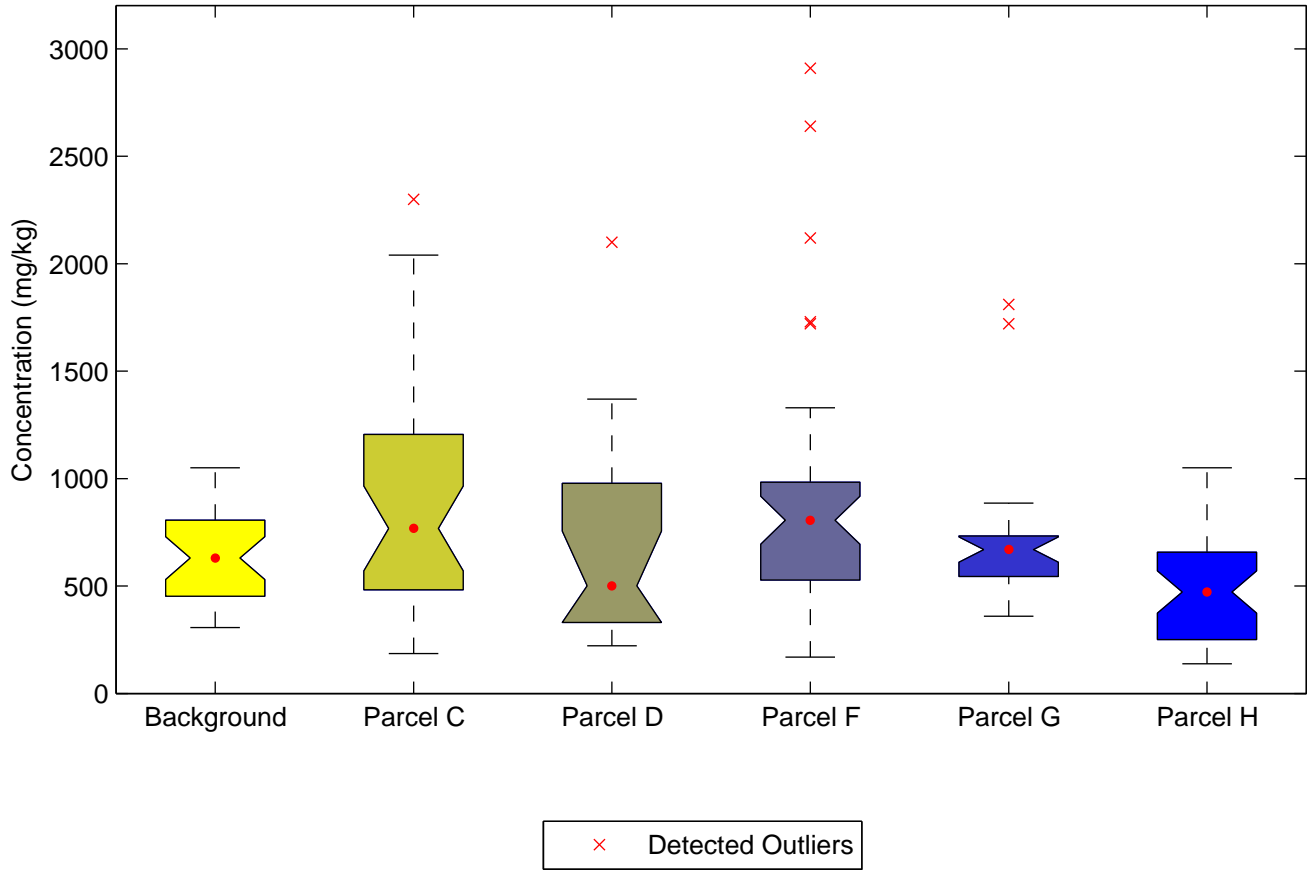


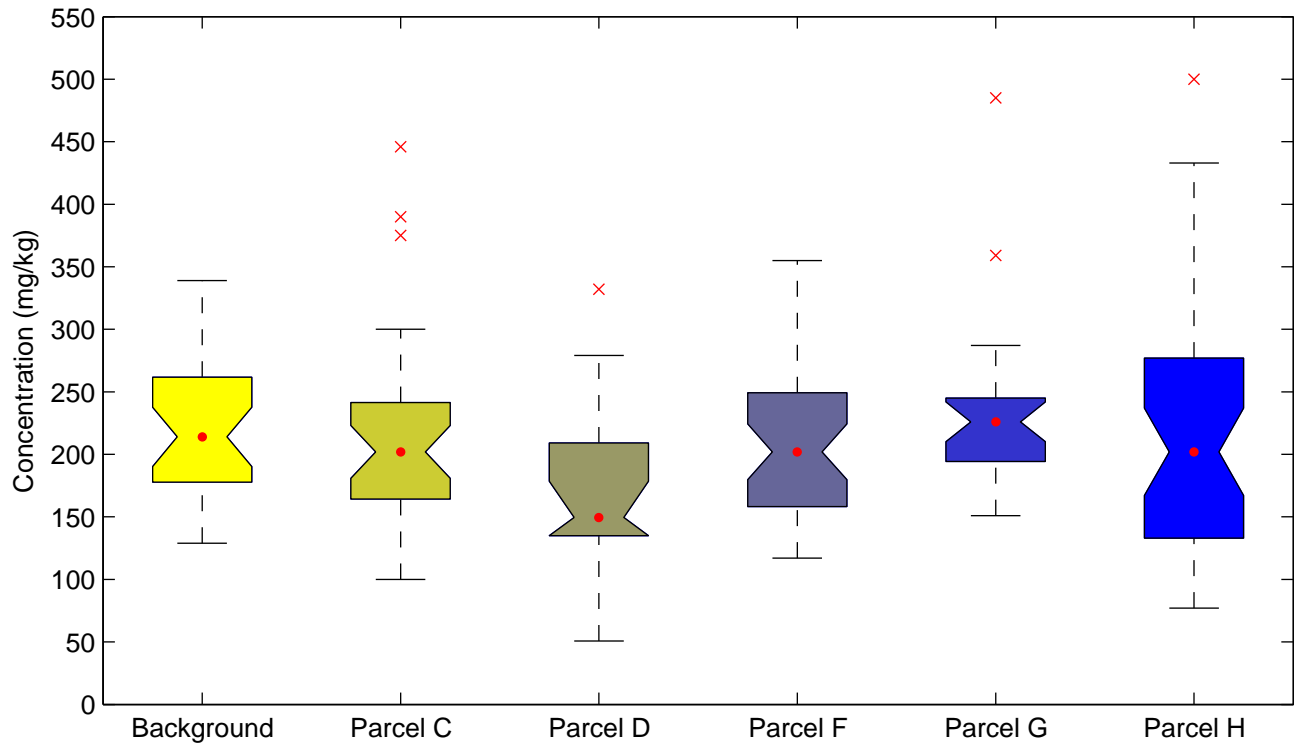
Figure 1–23. Background vs. Site Boxplots
Sodium

DRAFT



**Figure 1–24. Background vs. Site Boxplots
Strontium**

DRAFT



x Detected Outliers

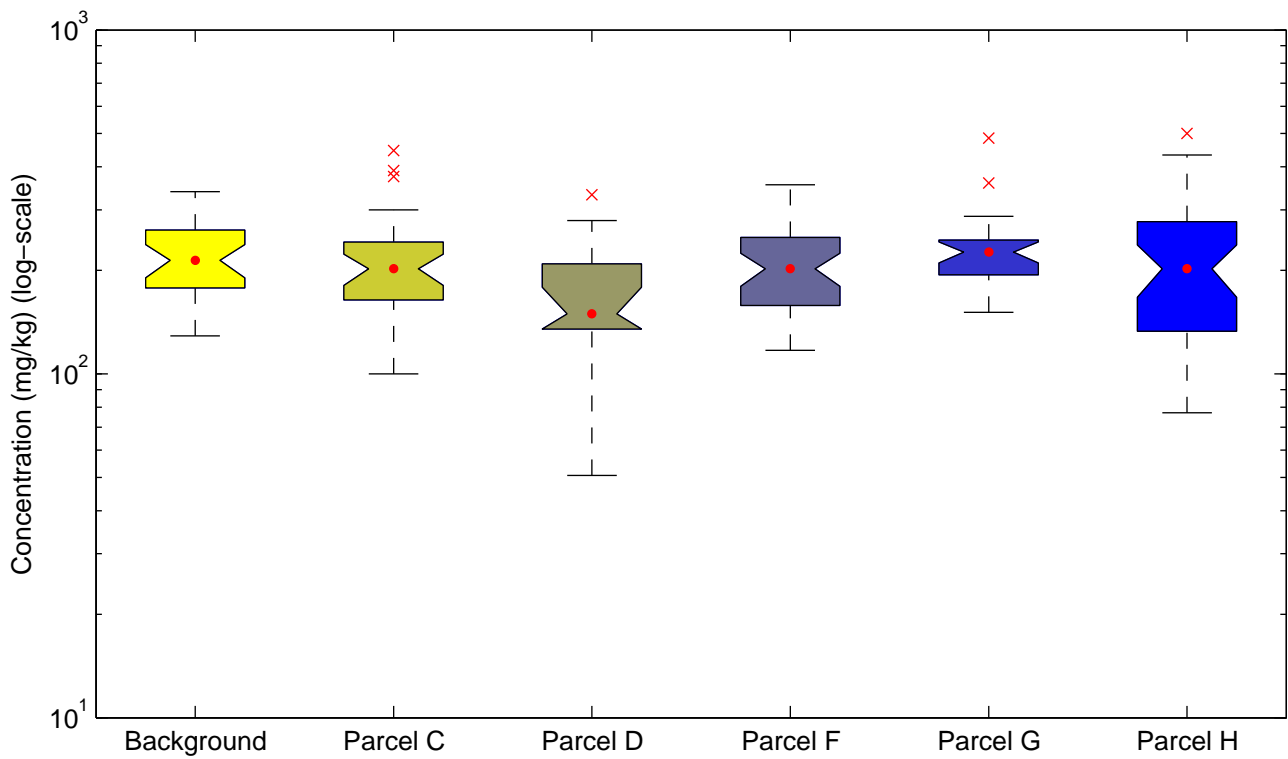


Figure 1–25. Background vs. Site Boxplots
Thallium

DRAFT

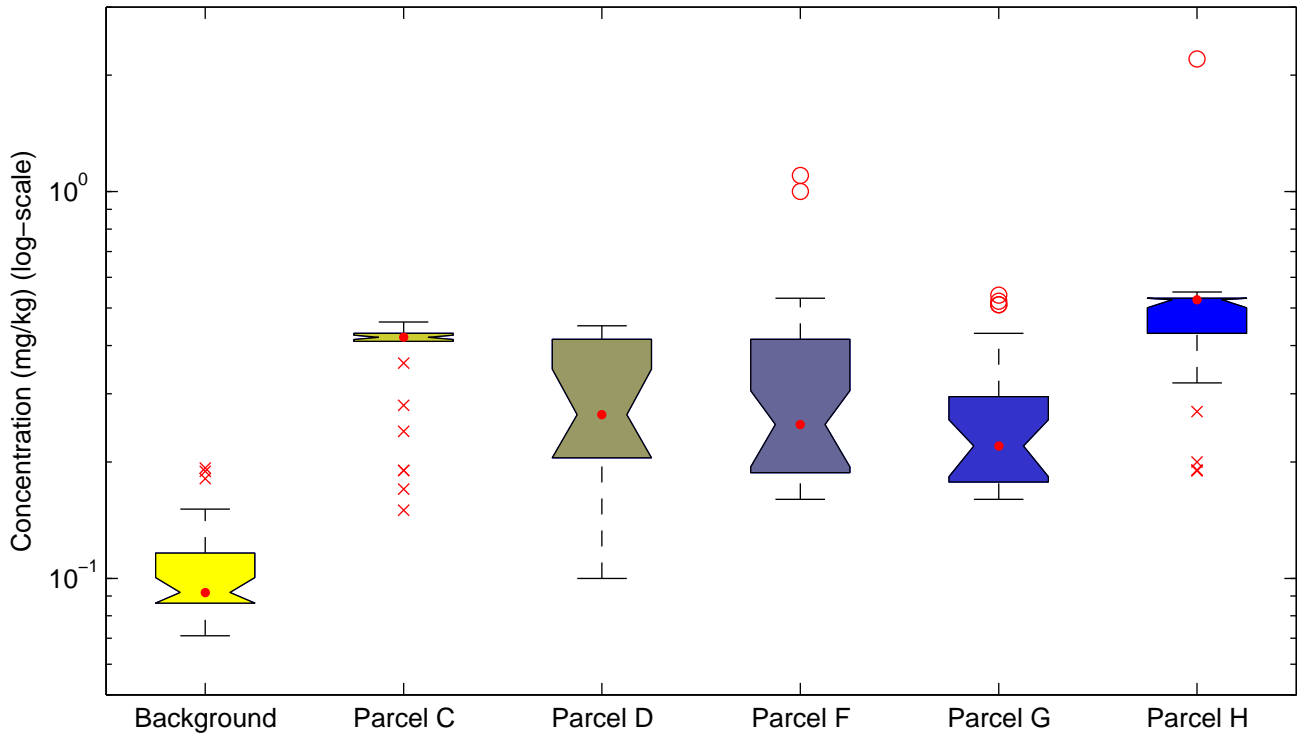
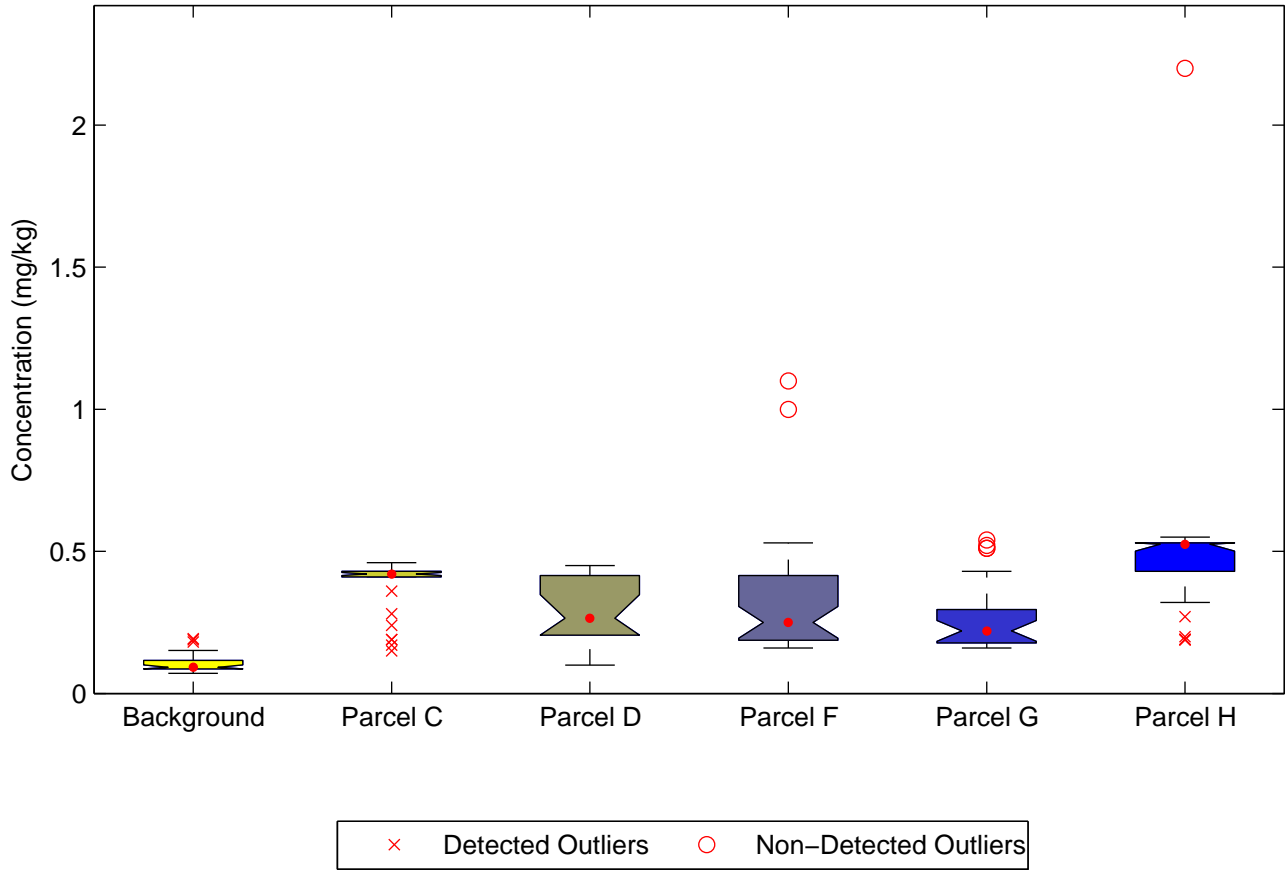


Figure 1–26. Background vs. Site Boxplots
Tin

DRAFT

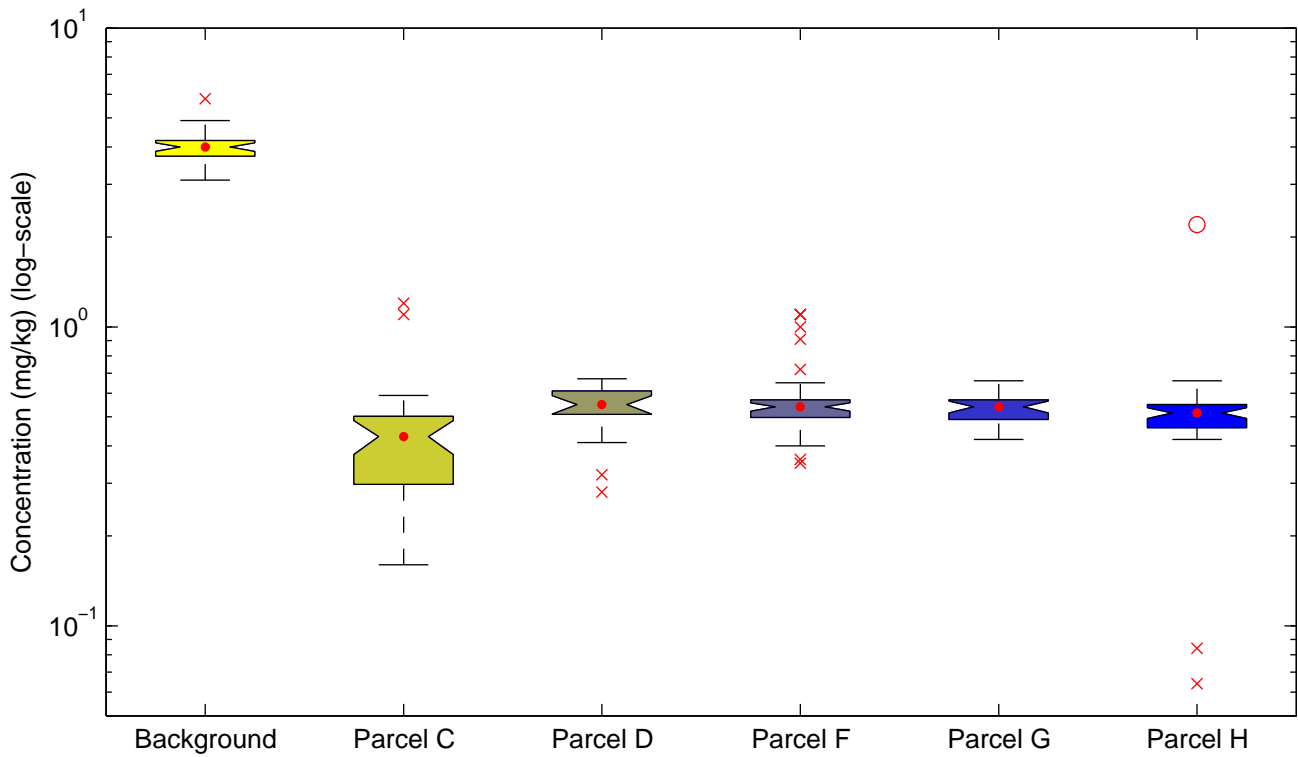
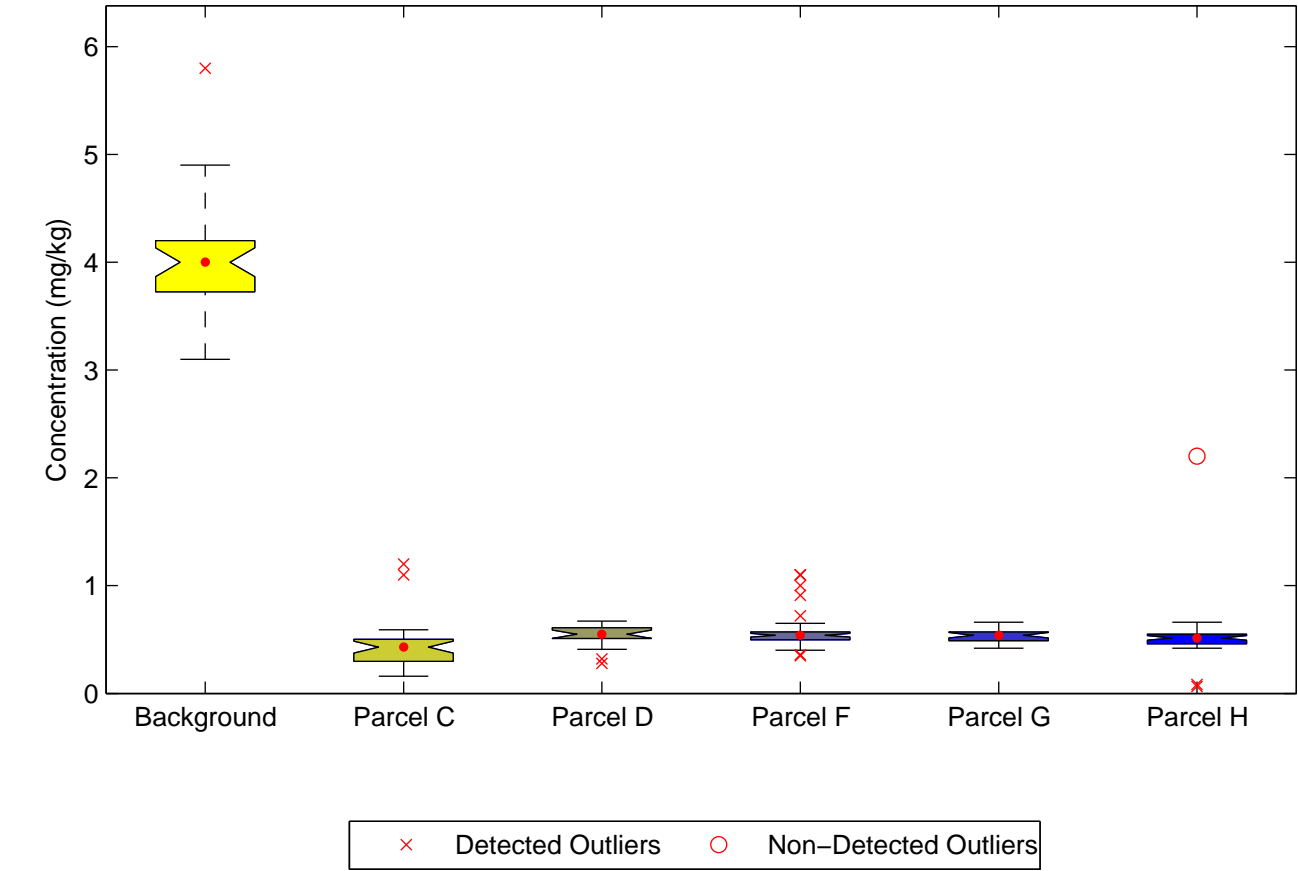


Figure 1-27. Background vs. Site Boxplots
Titanium

DRAFT

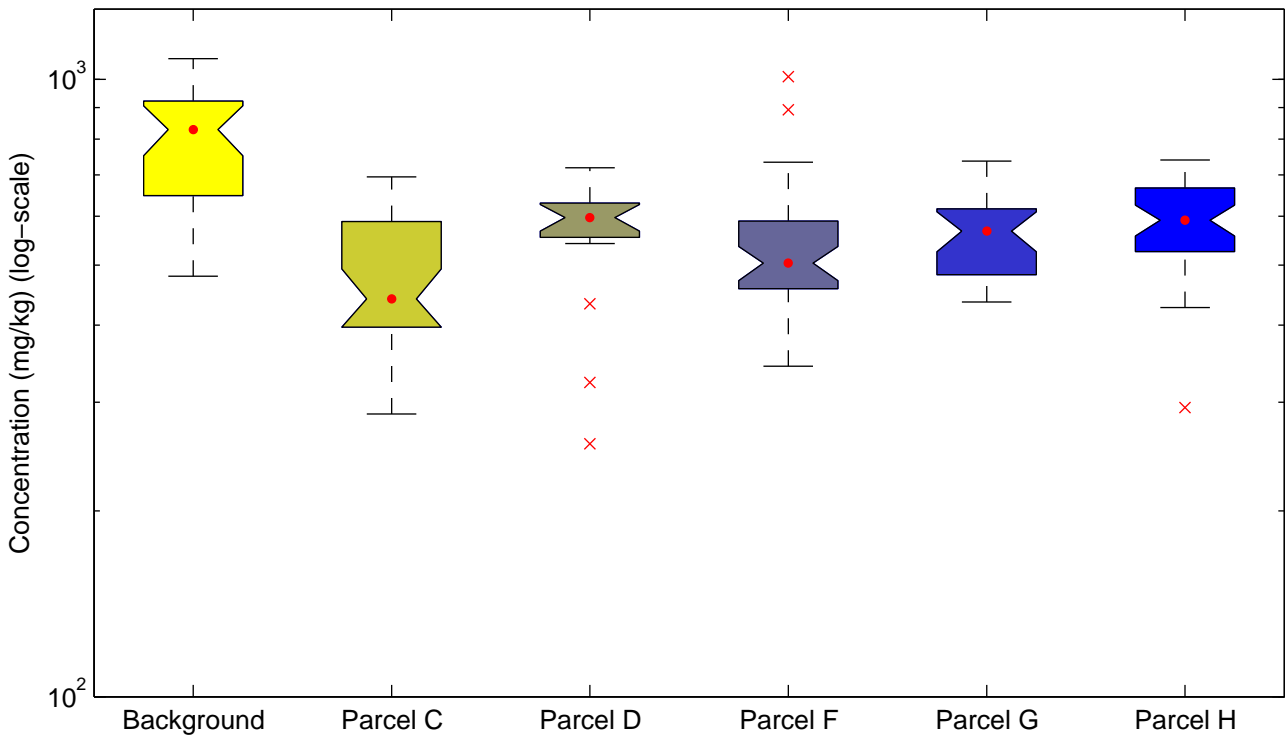
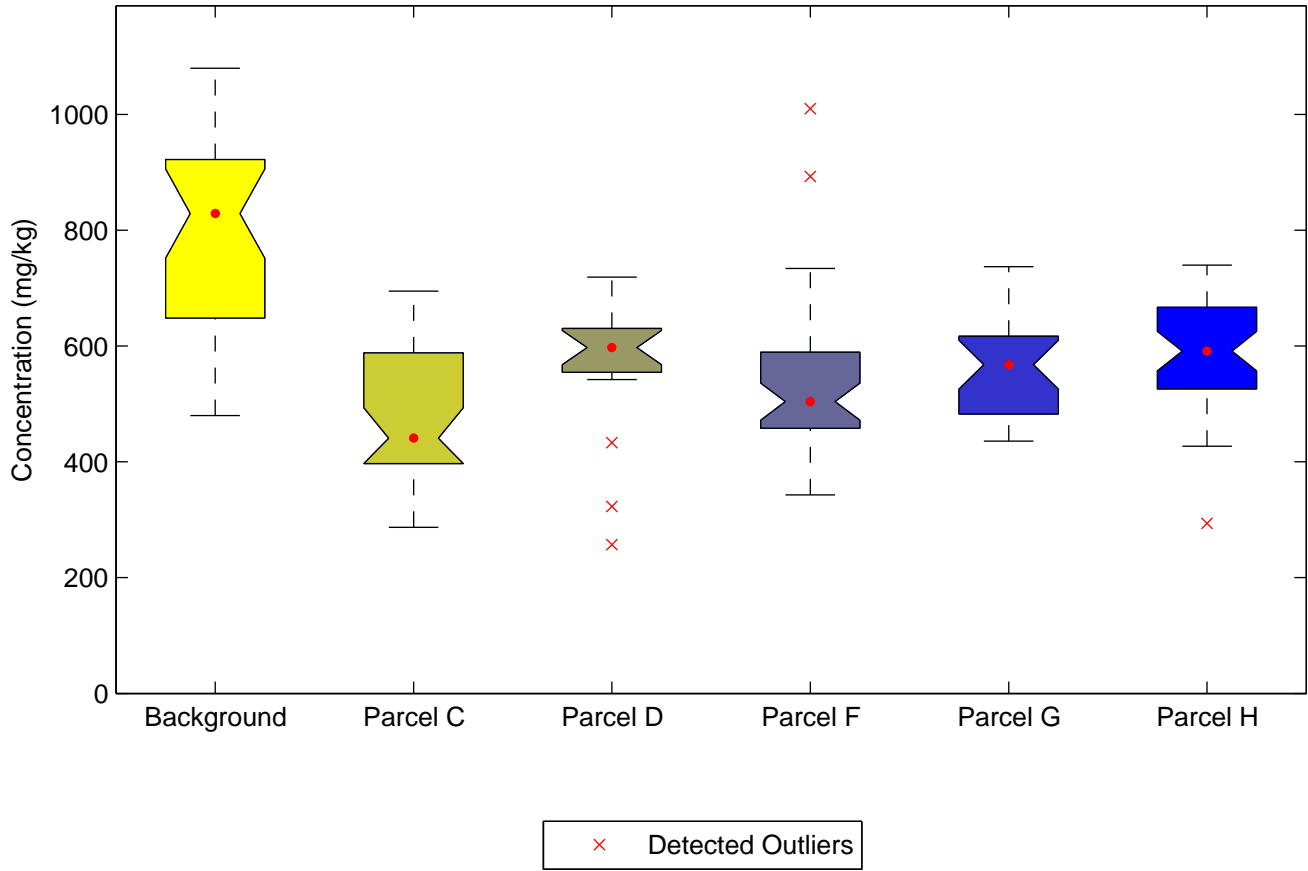


Figure 1–28. Background vs. Site Boxplots
Tungsten

DRAFT

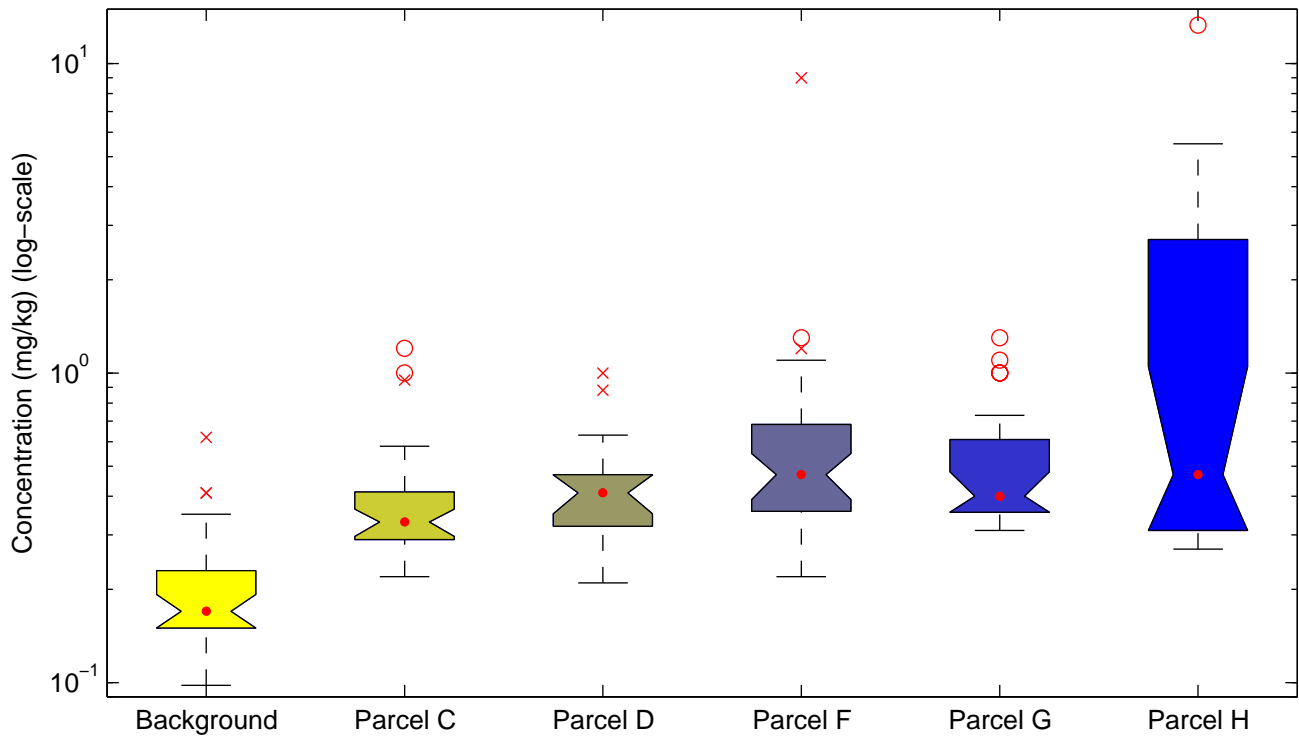
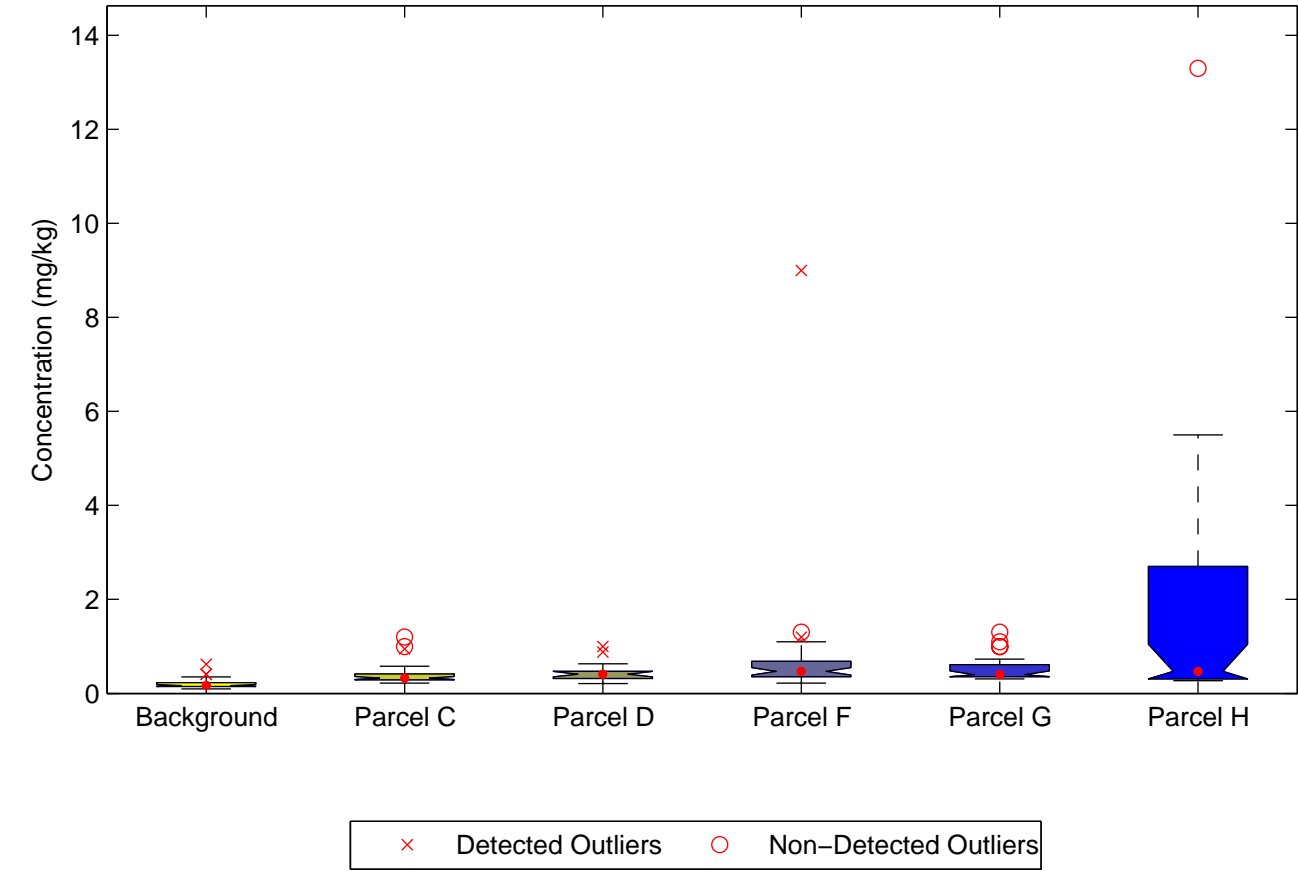
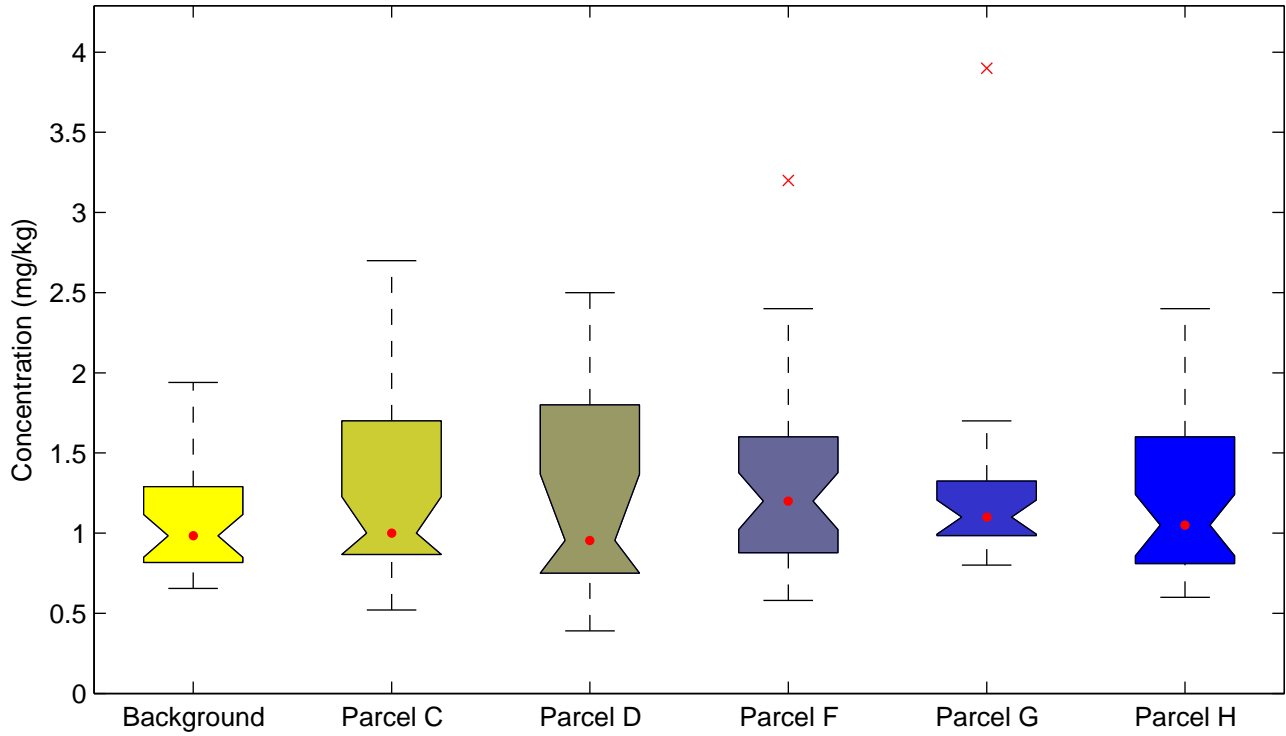


Figure 1–29. Background vs. Site Boxplots
Uranium

DRAFT



x Detected Outliers

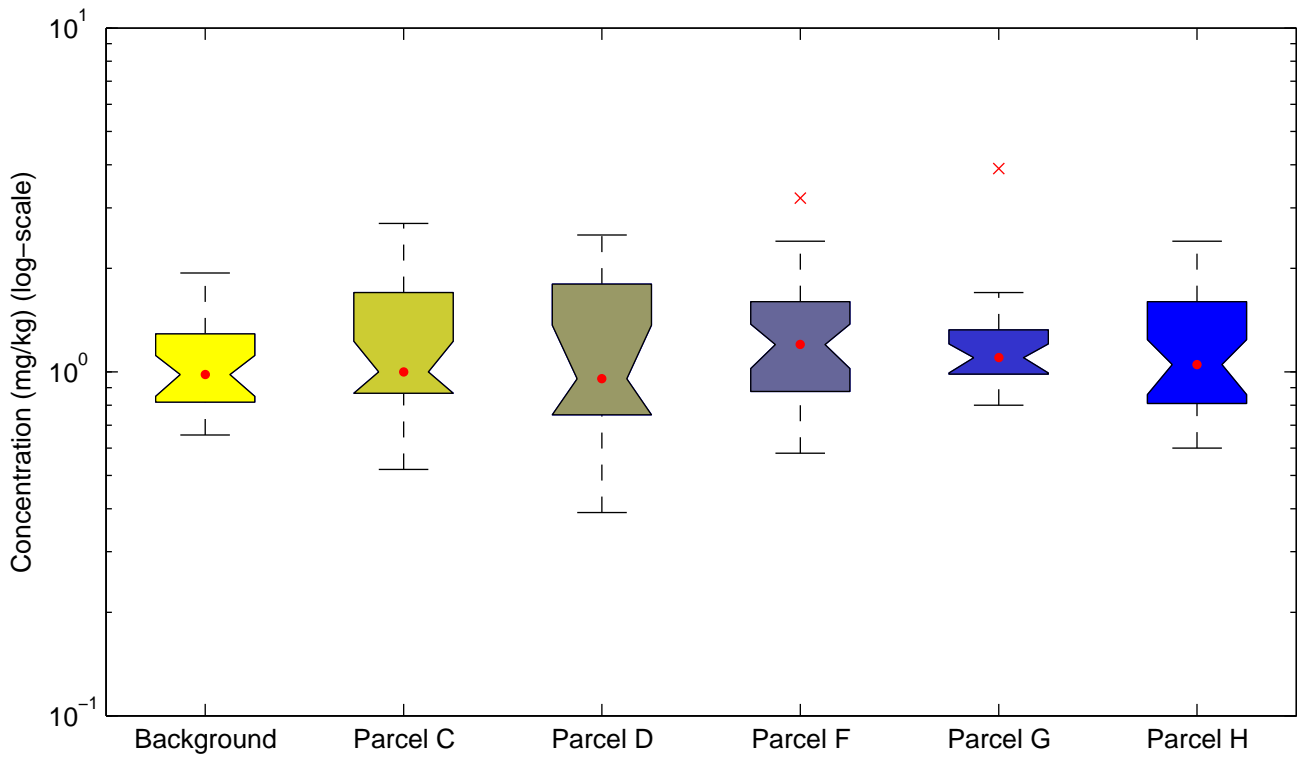
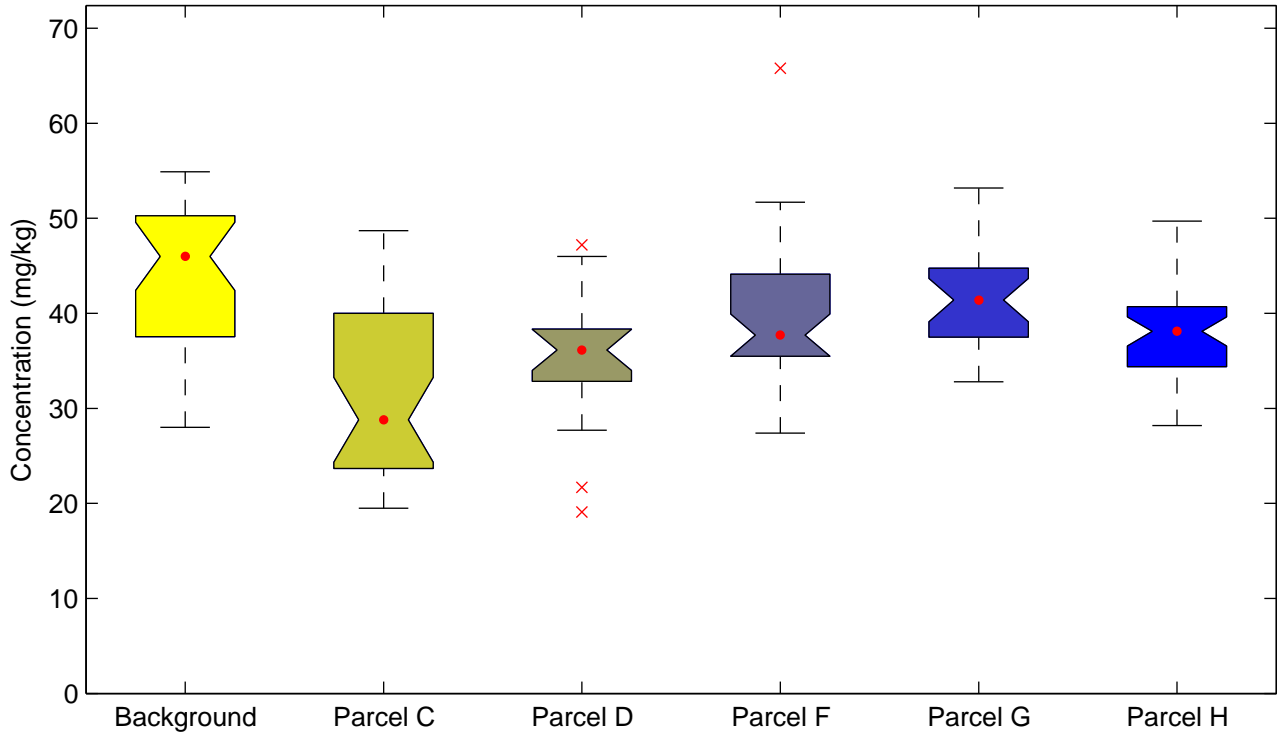


Figure 1–30. Background vs. Site Boxplots
Vanadium

DRAFT



x Detected Outliers

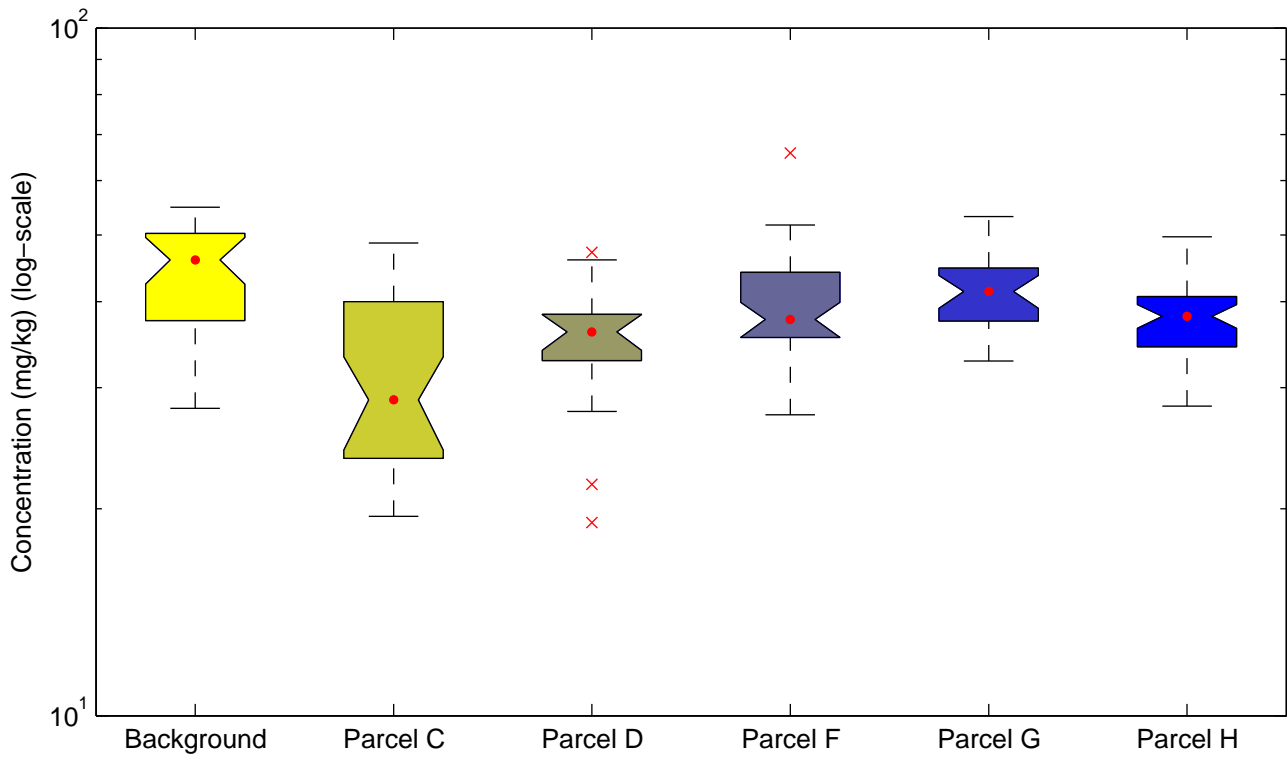


Figure 1-31. Background vs. Site Boxplots
Zinc

DRAFT

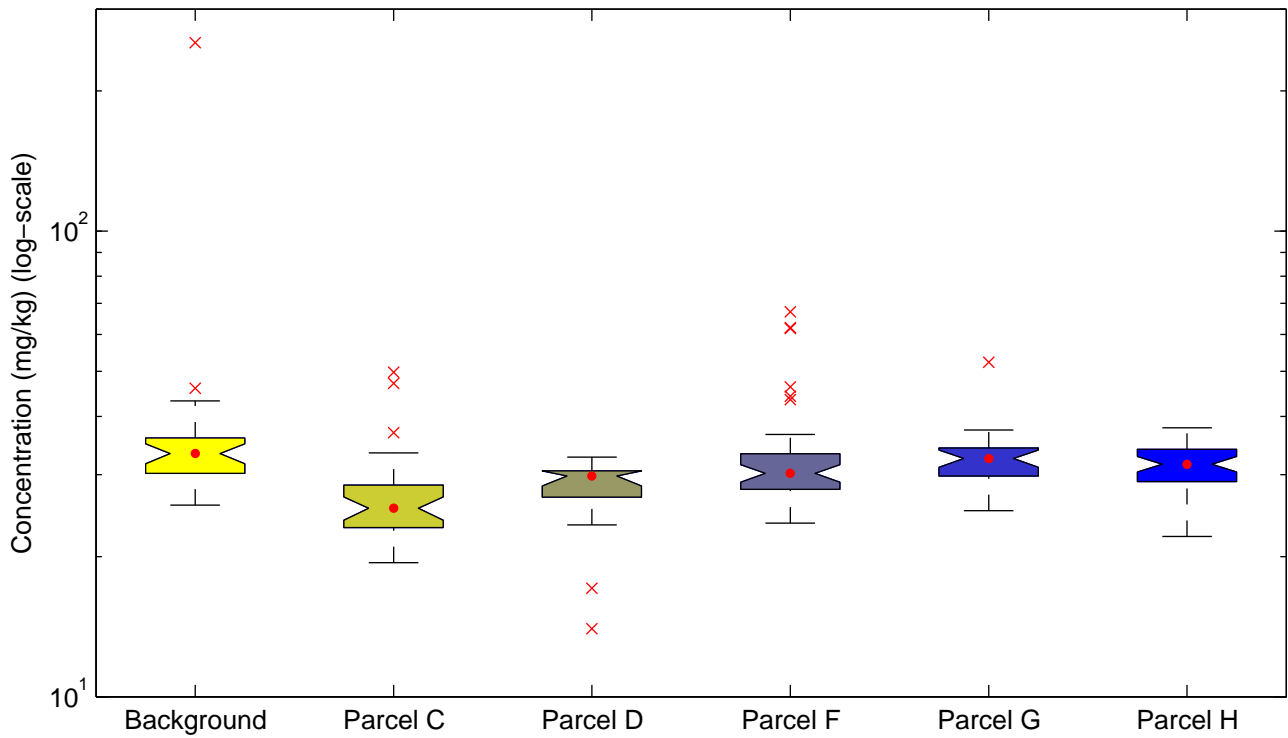
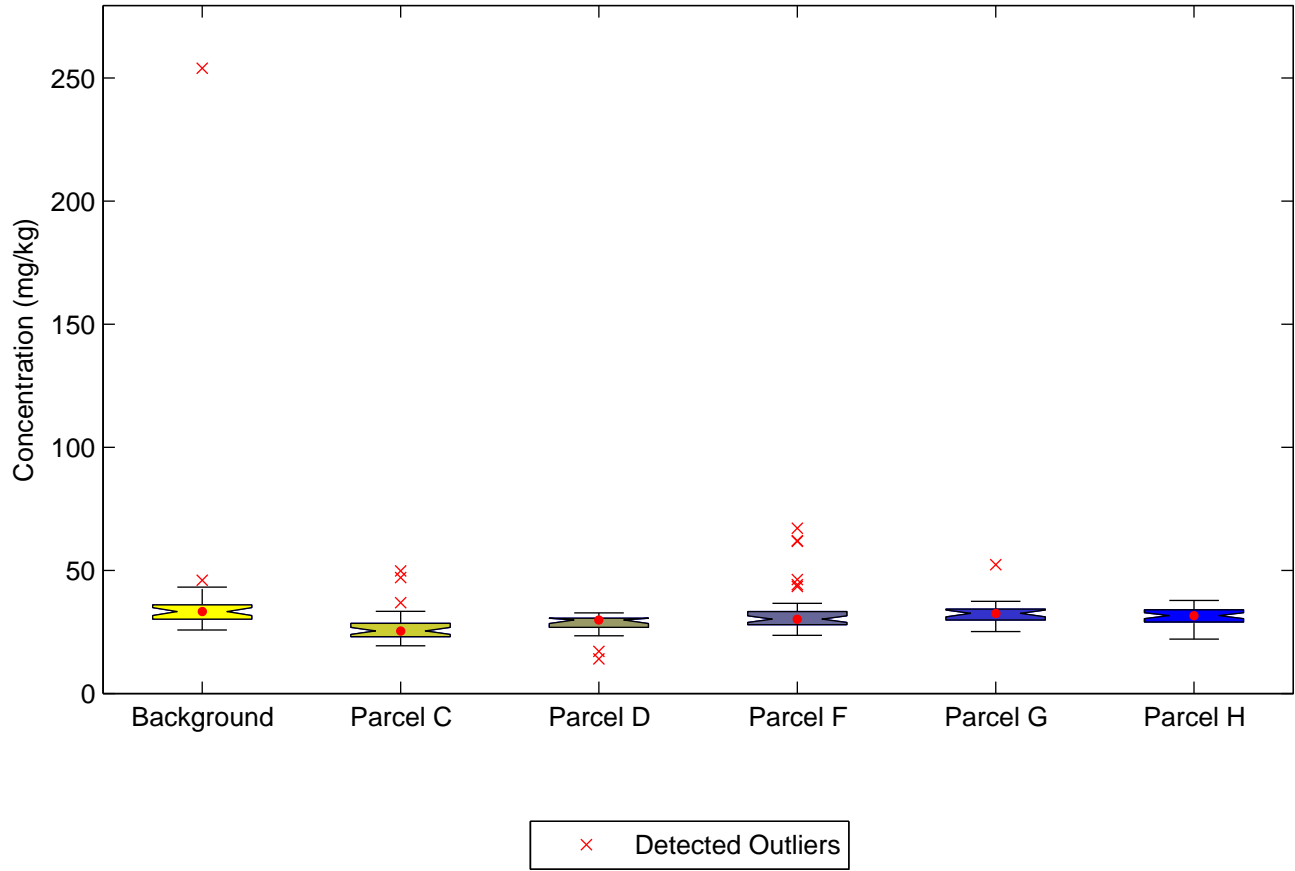


Figure 2-1A. Normal Q-Q Plots
Aluminum

DRAFT

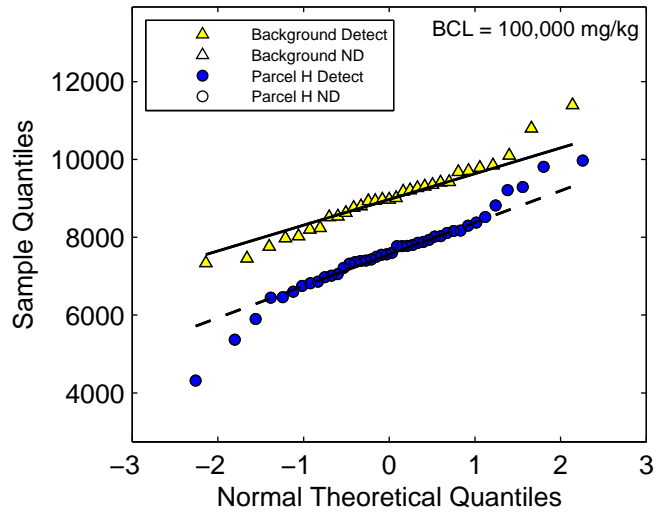
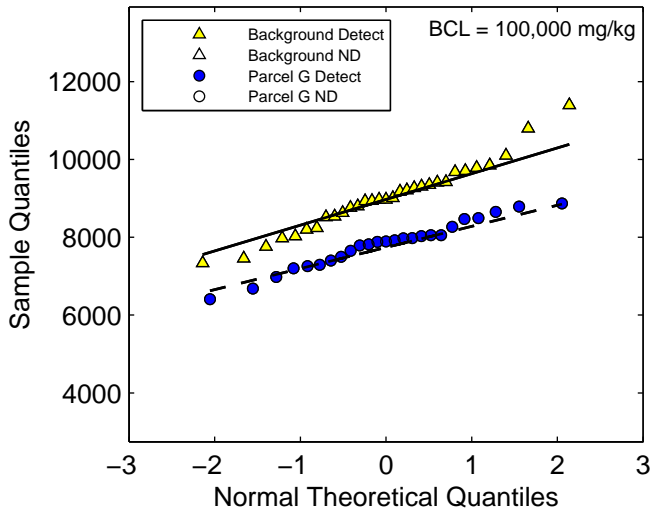
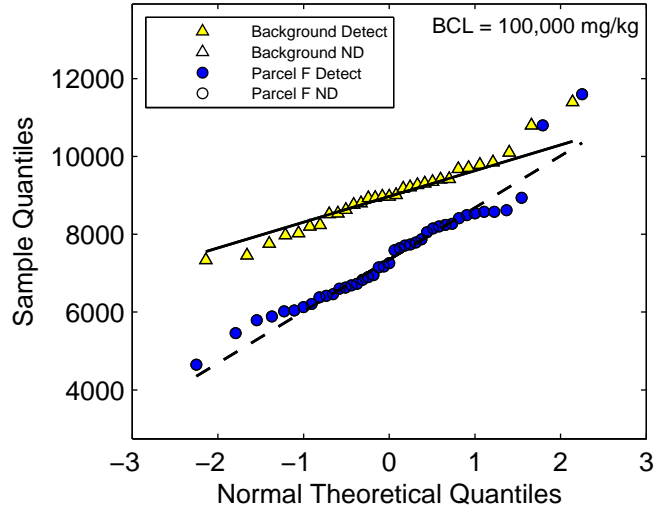
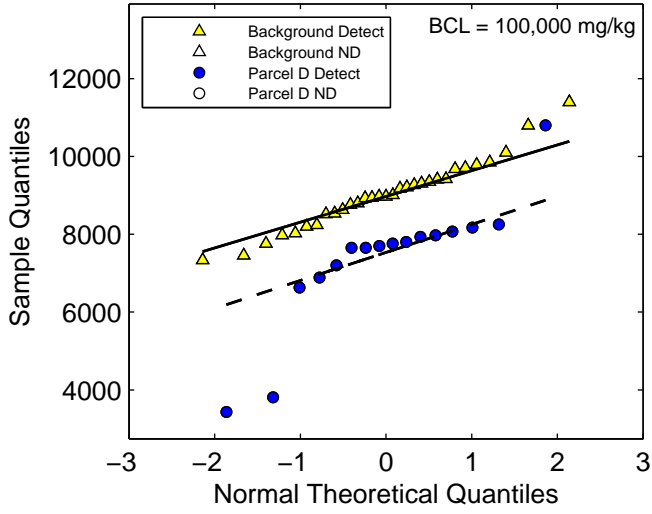
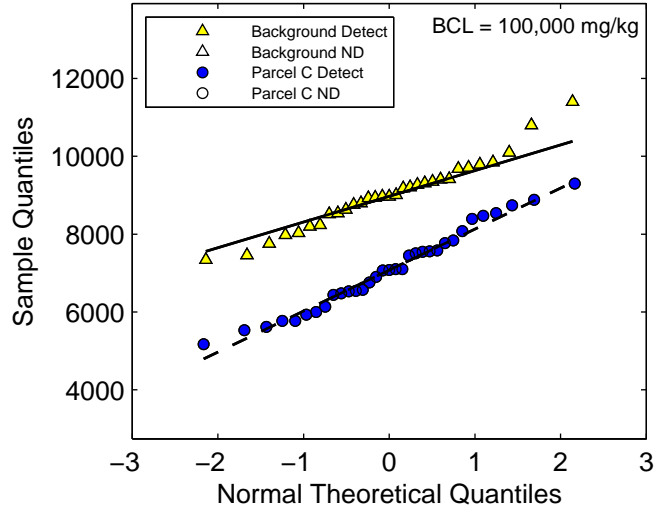
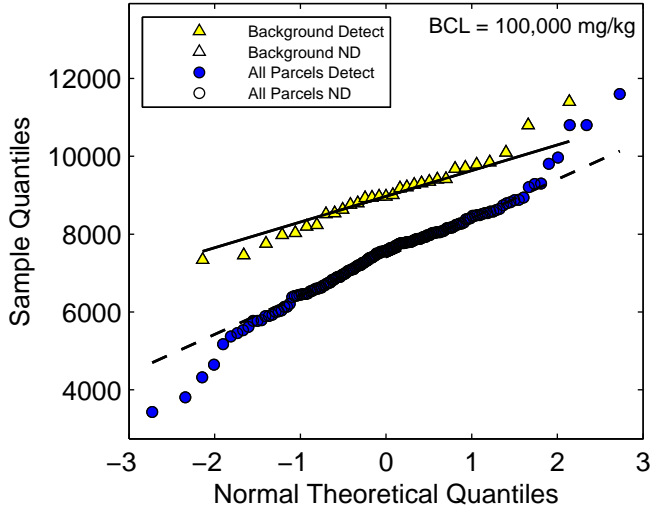


Figure 2-1B. Lognormal Q-Q Plots
Aluminum

DRAFT

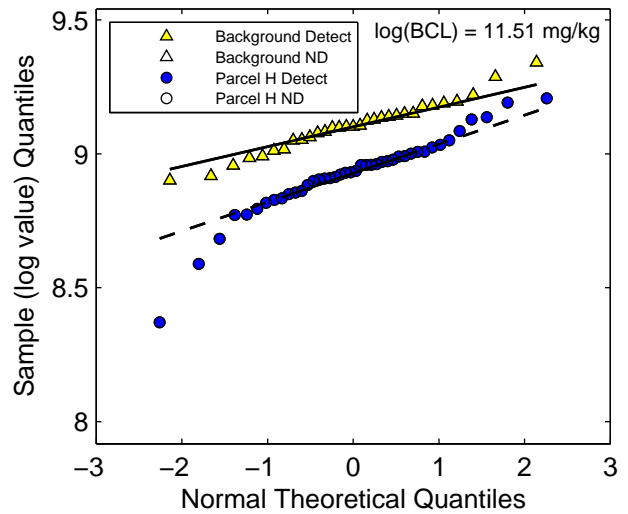
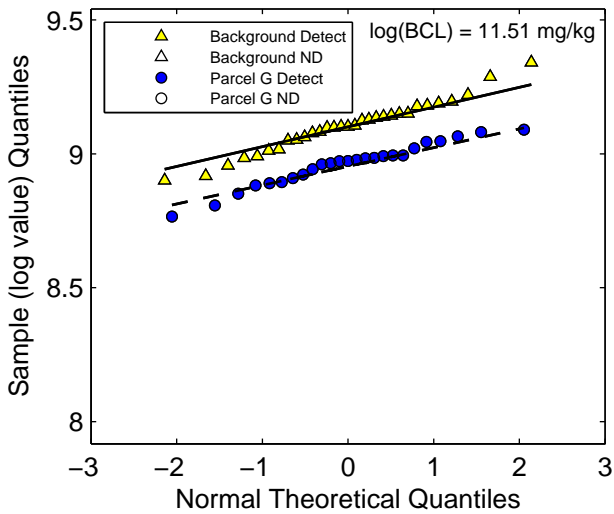
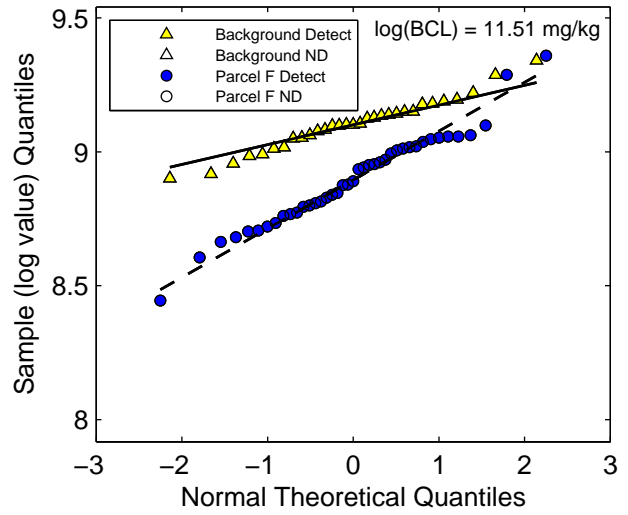
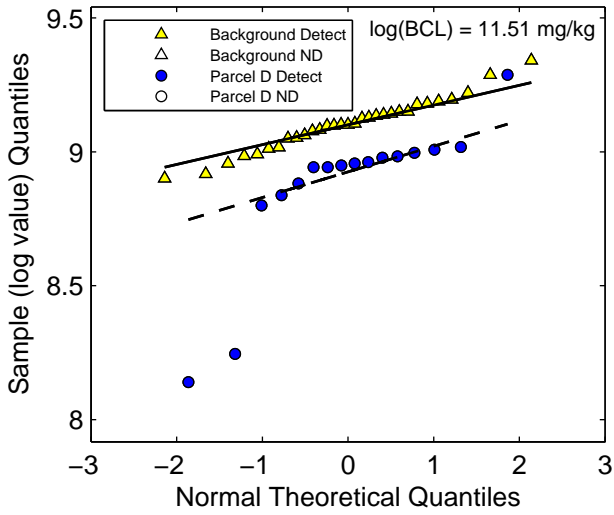
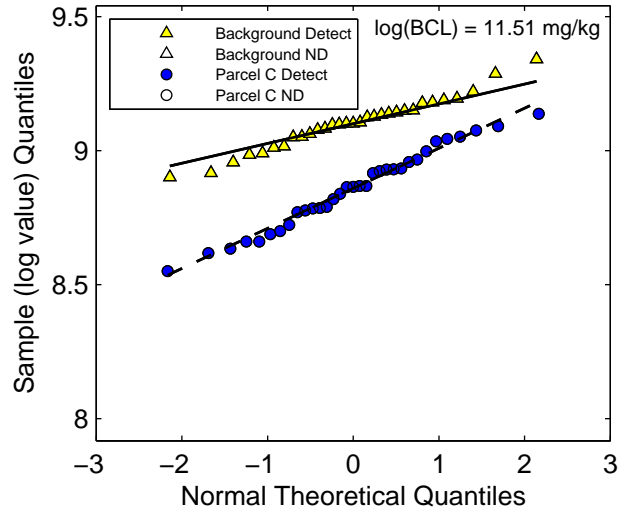
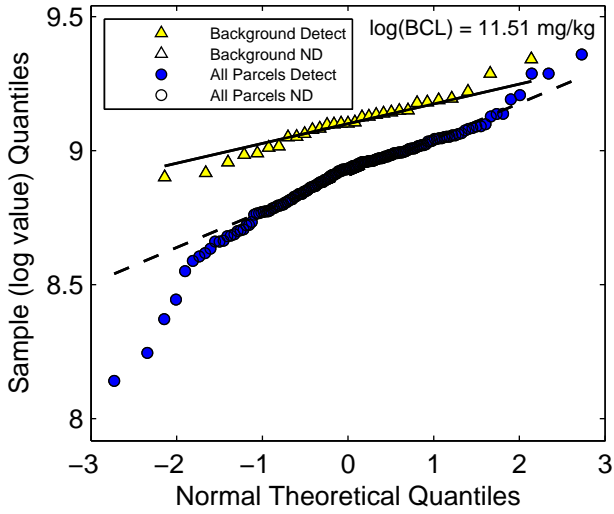


Figure 2-2A. Normal Q-Q Plots
Antimony

DRAFT

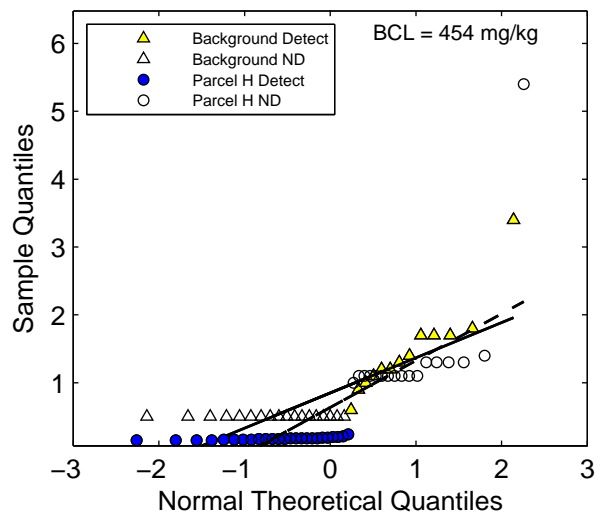
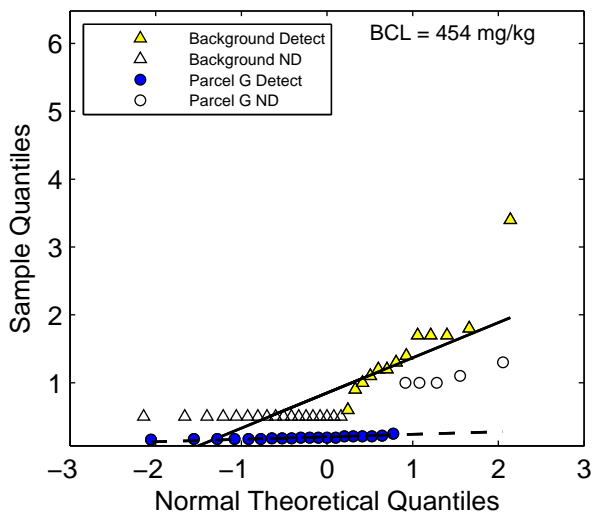
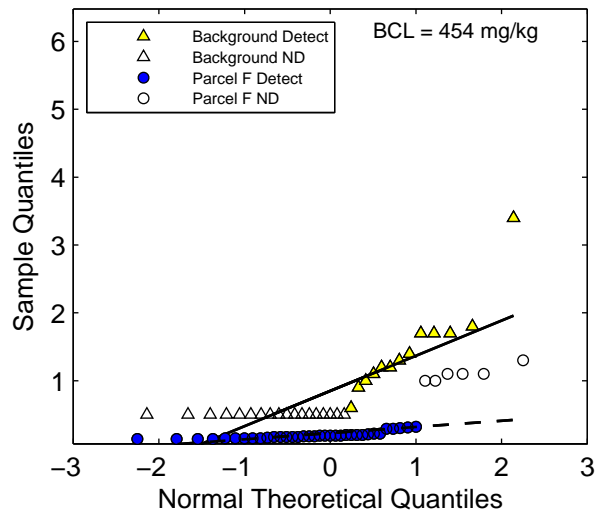
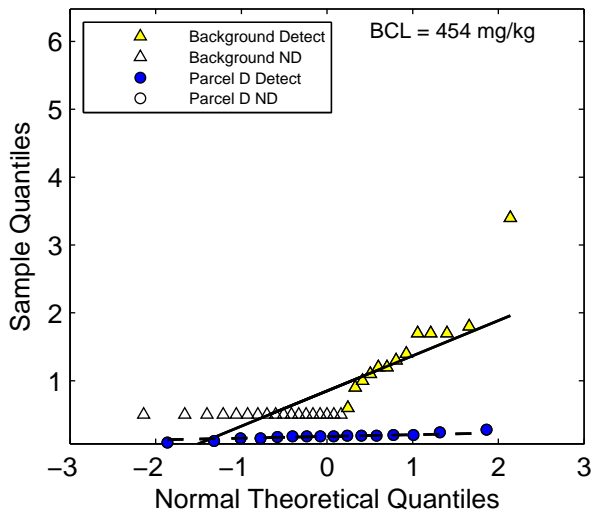
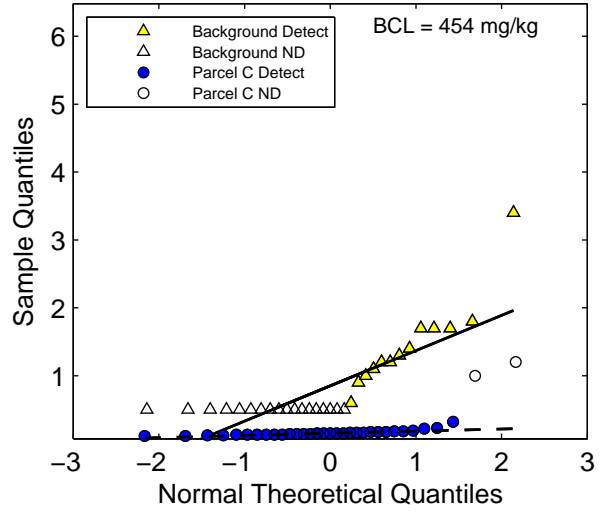
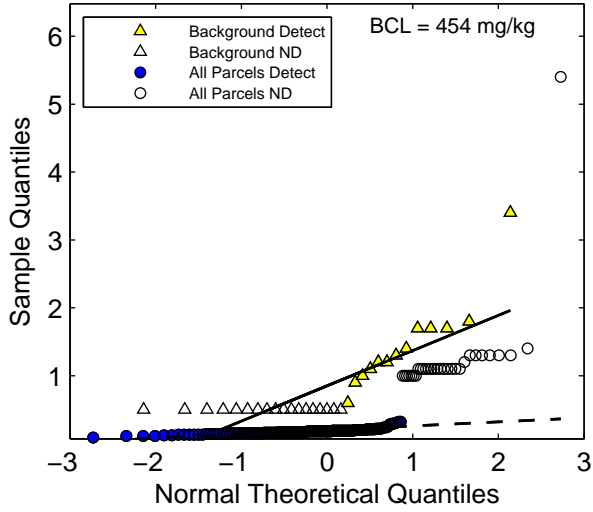


Figure 2-2B. Lognormal Q-Q Plots
Antimony

DRAFT

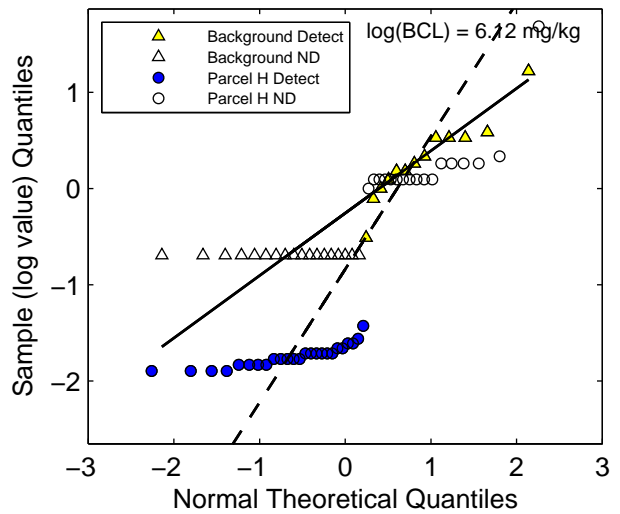
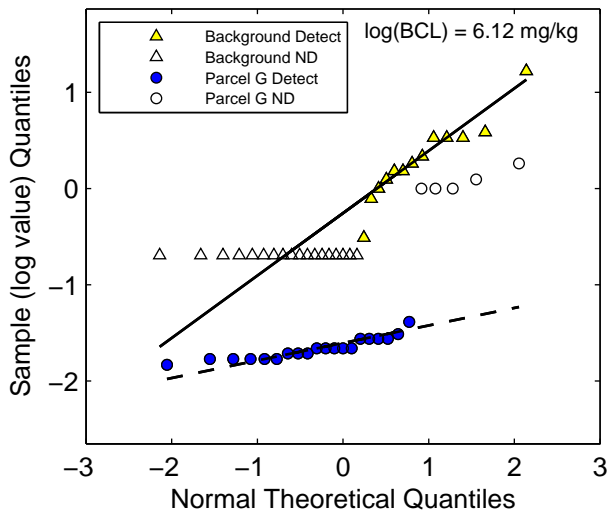
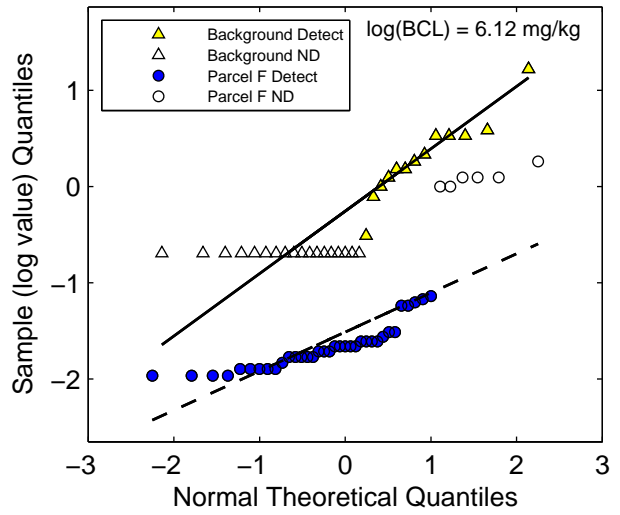
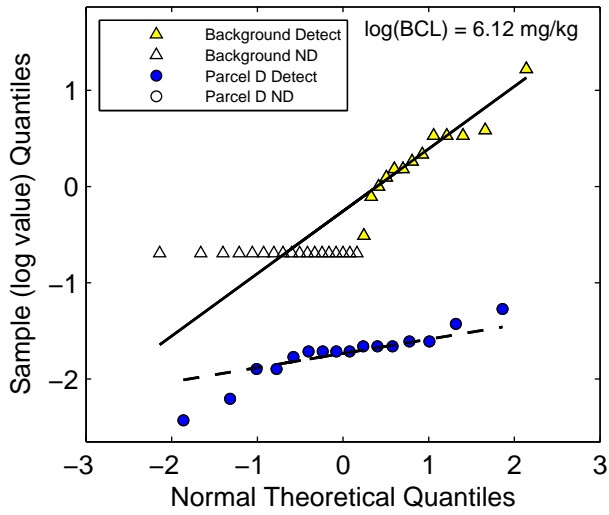
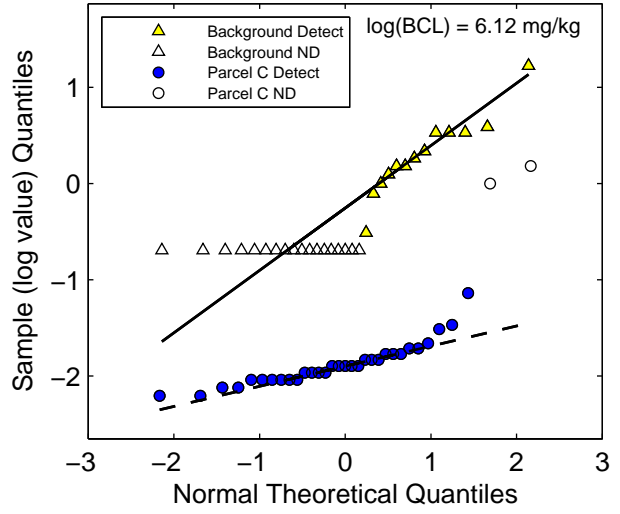
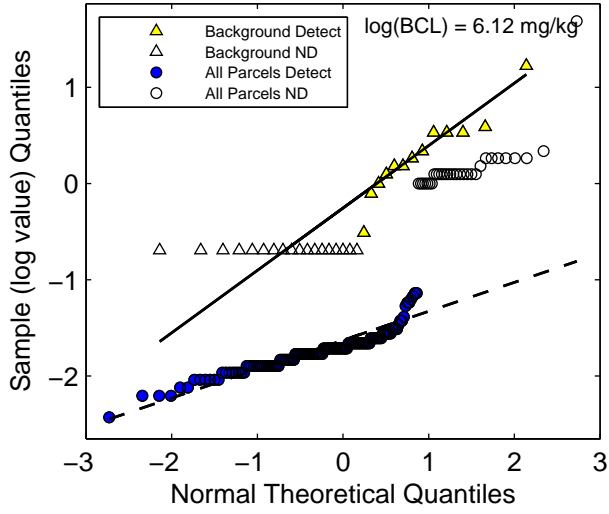


Figure 2-3A. Normal Q-Q Plots
Arsenic

DRAFT

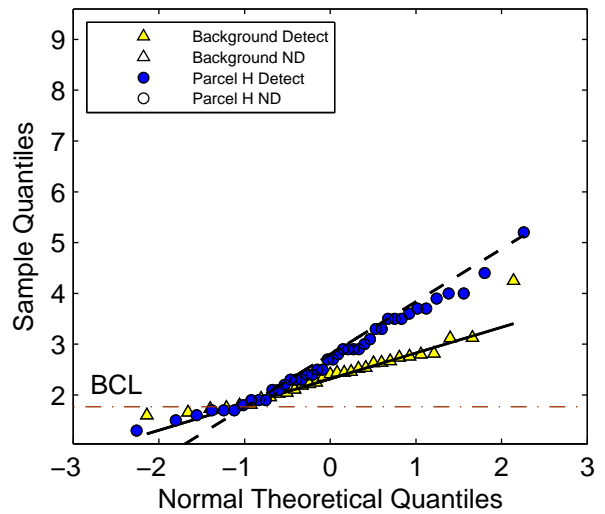
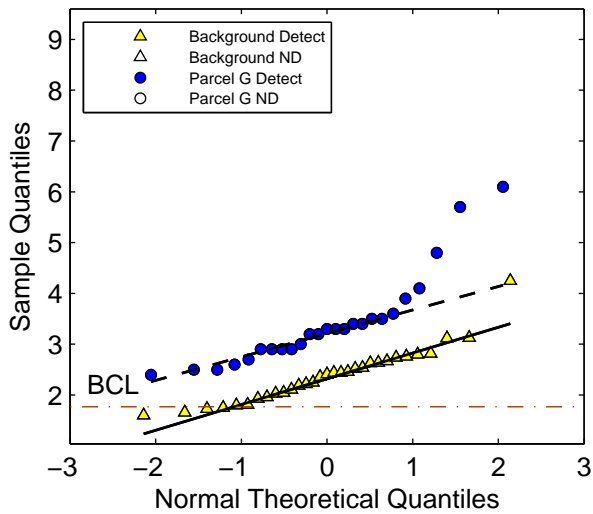
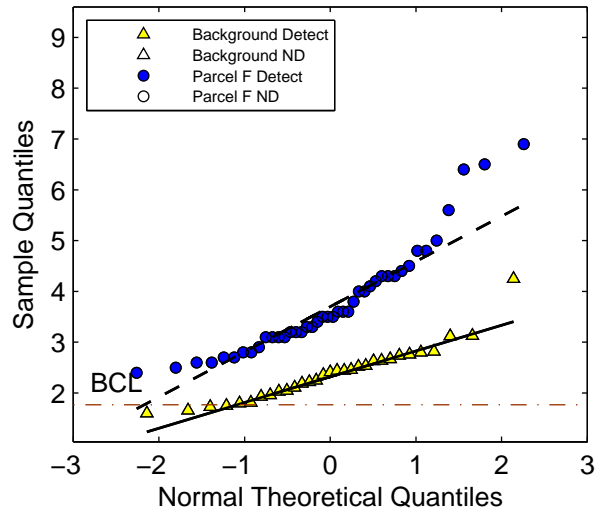
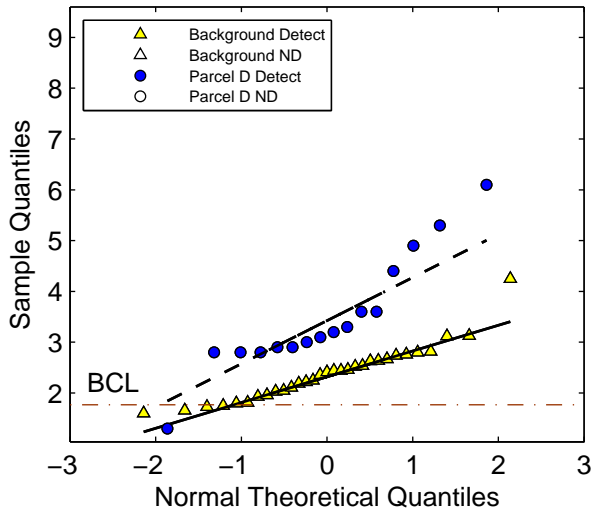
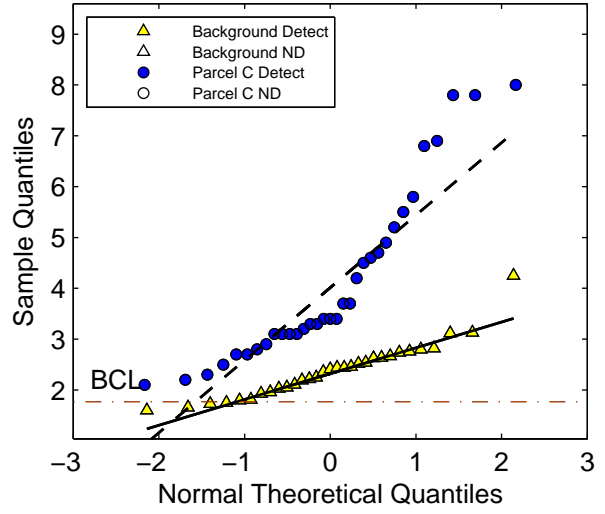
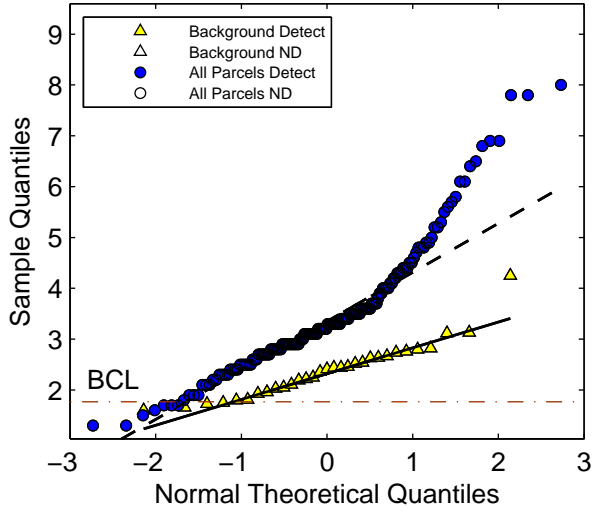


Figure 2-3B. Lognormal Q-Q Plots
Arsenic

DRAFT

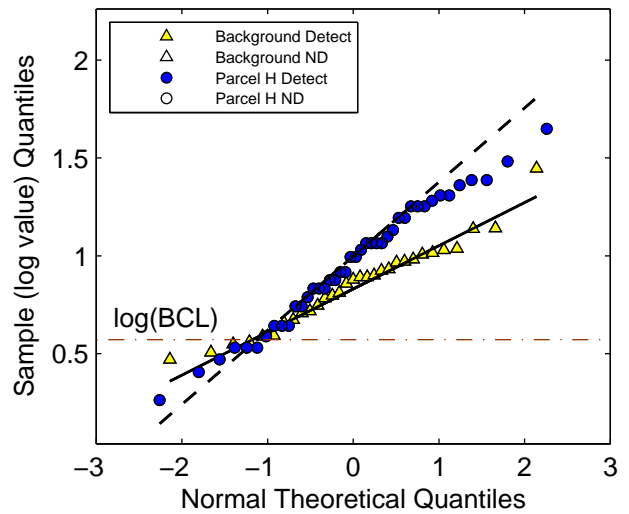
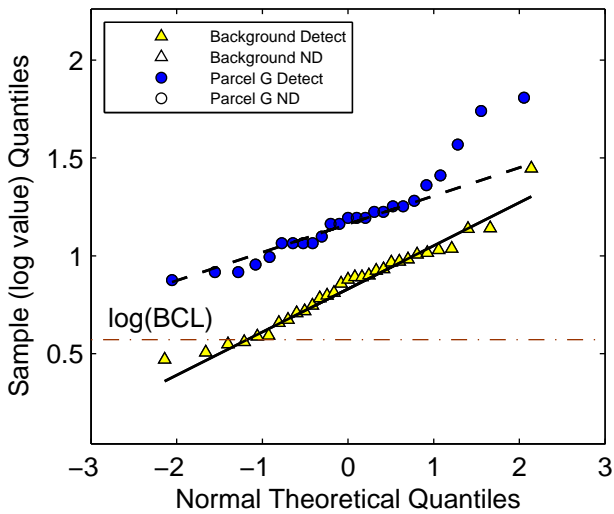
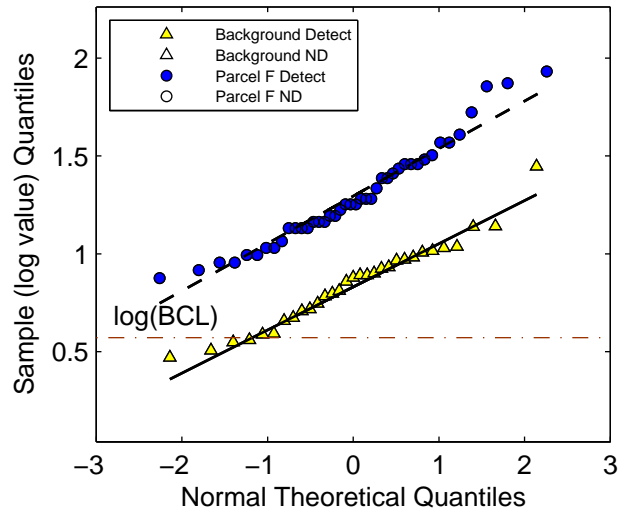
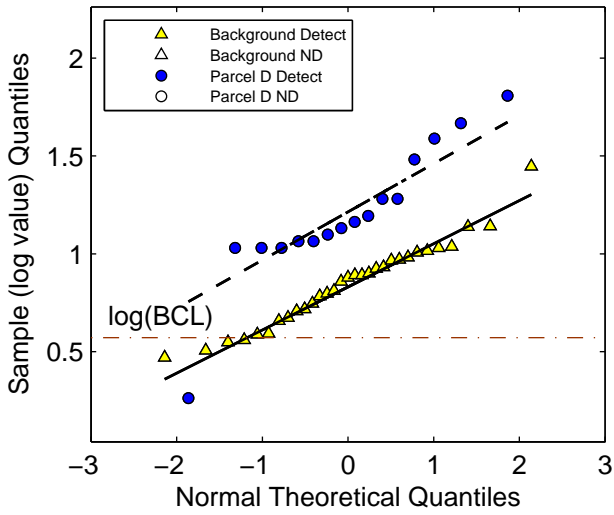
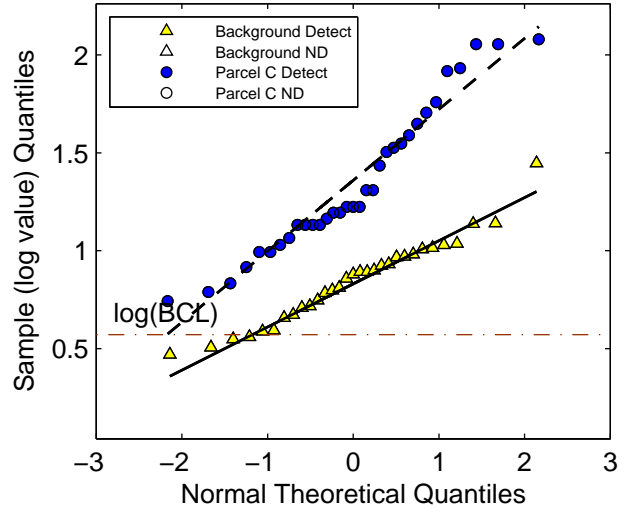
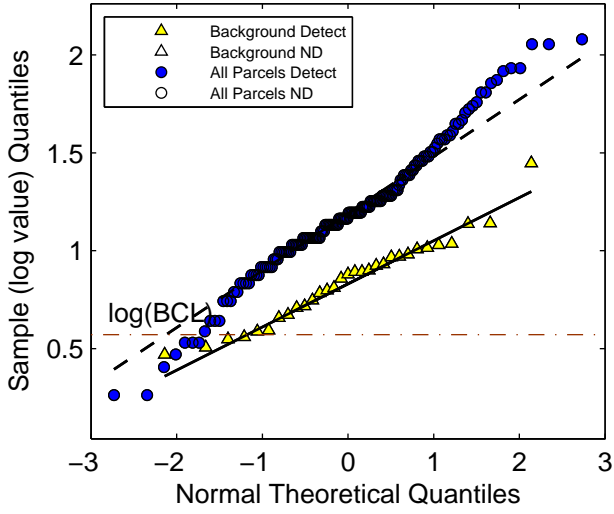


Figure 2-4A. Normal Q-Q Plots
Barium

DRAFT

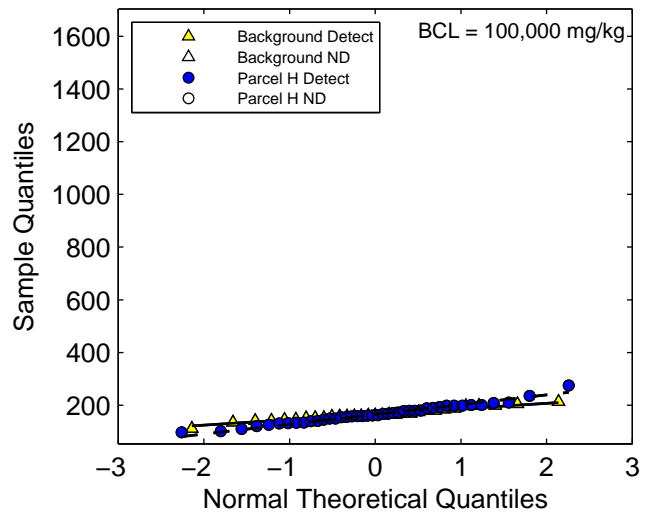
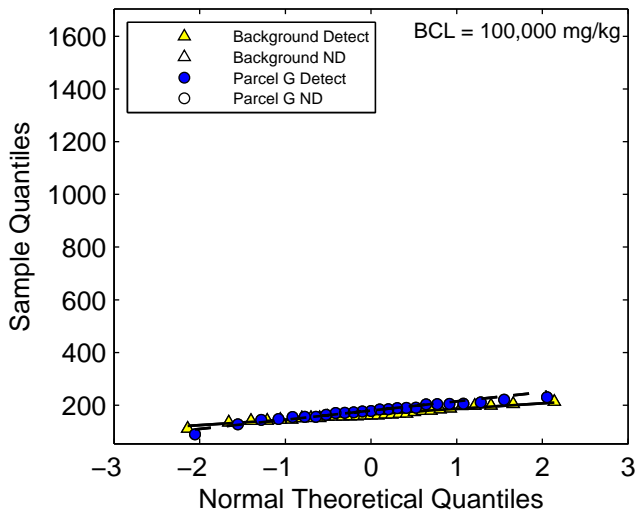
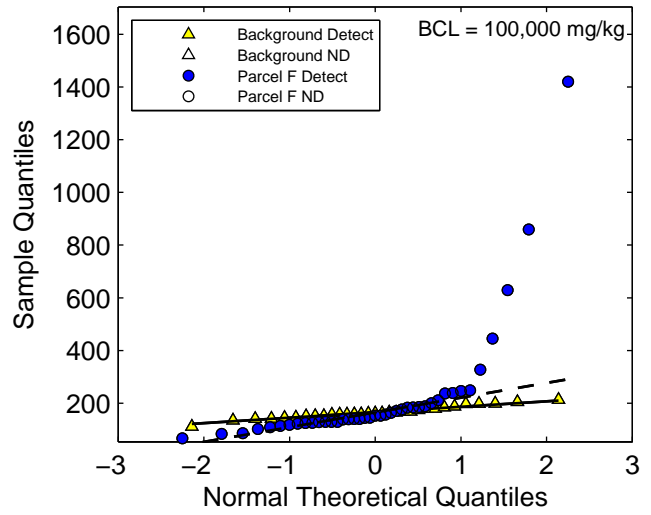
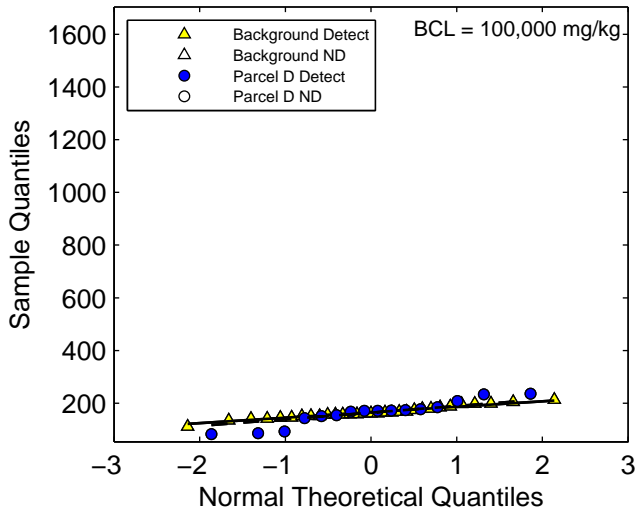
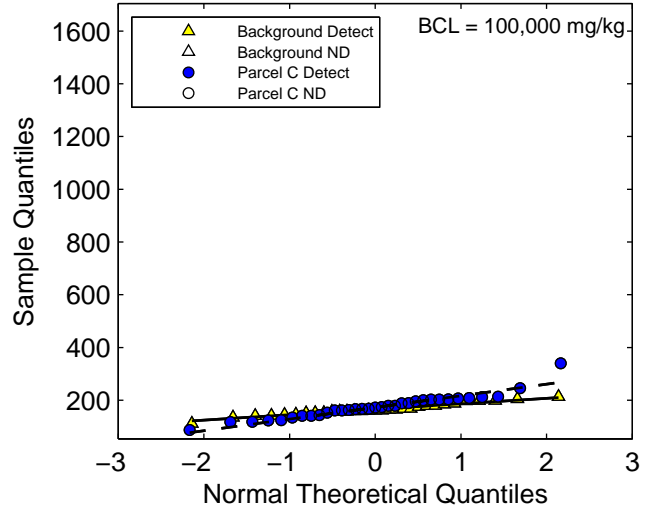
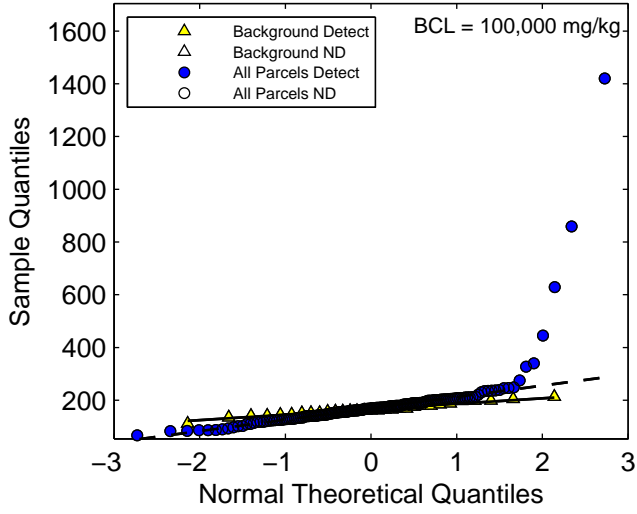


Figure 2-4B. Lognormal Q-Q Plots
Barium

DRAFT

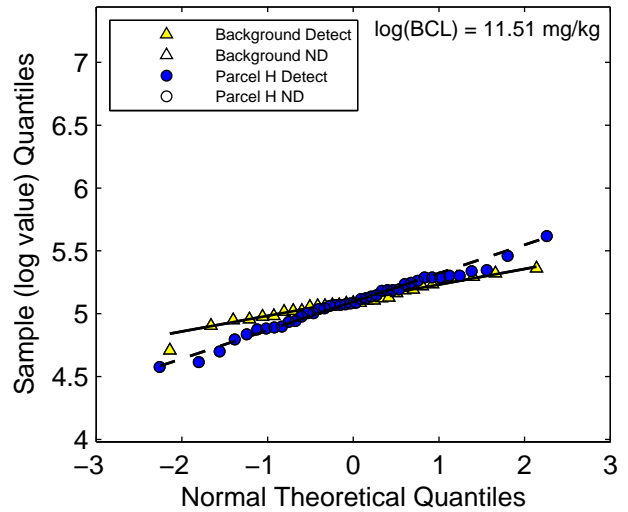
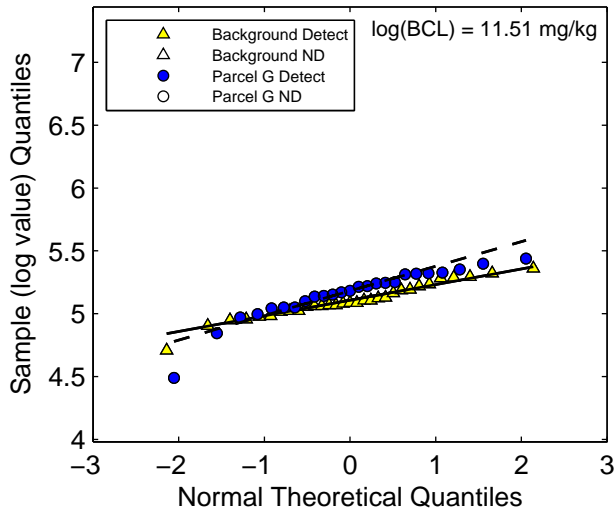
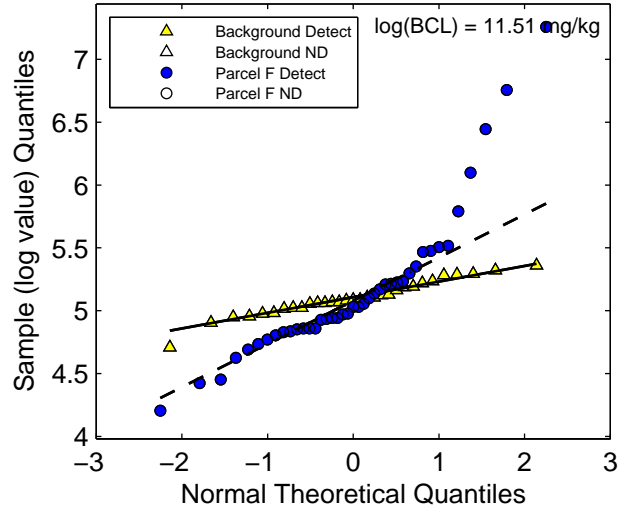
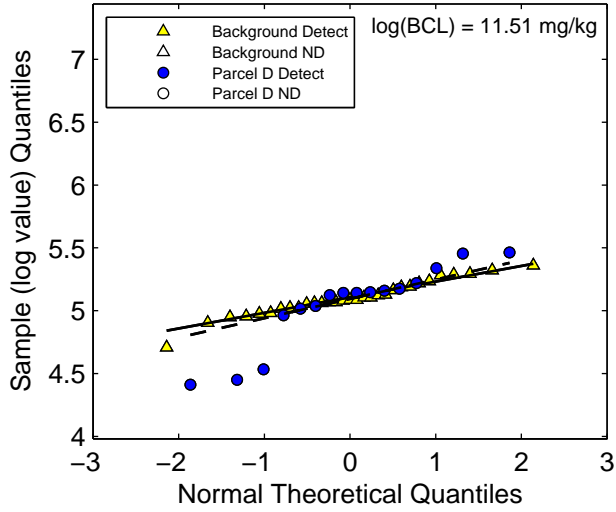
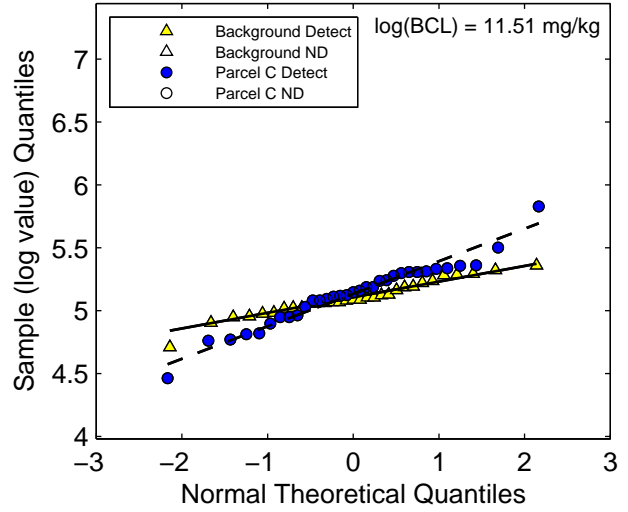
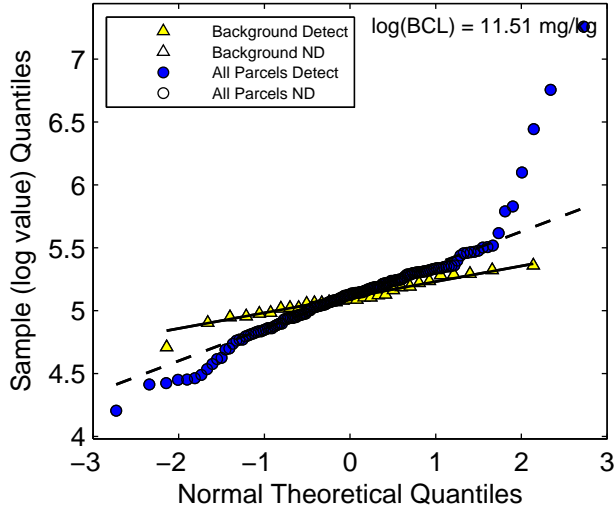


Figure 2-5A. Normal Q-Q Plots
Beryllium

DRAFT

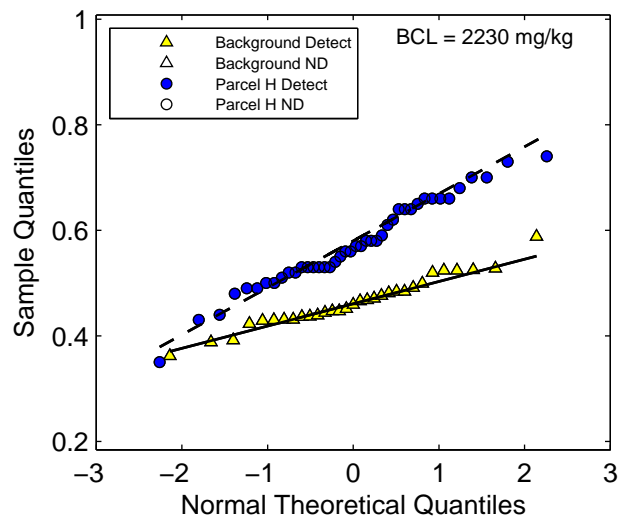
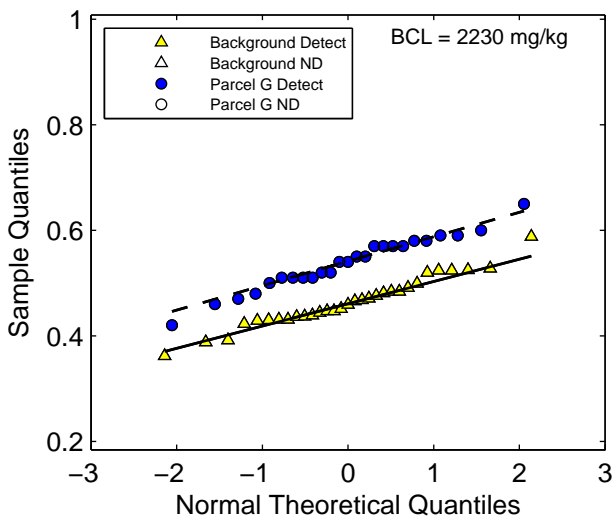
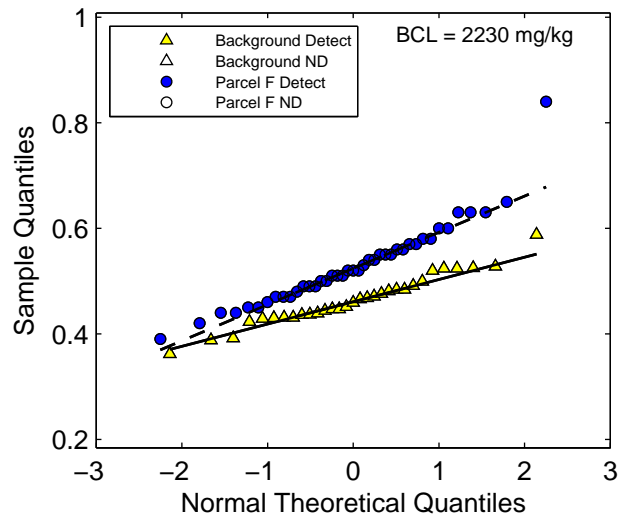
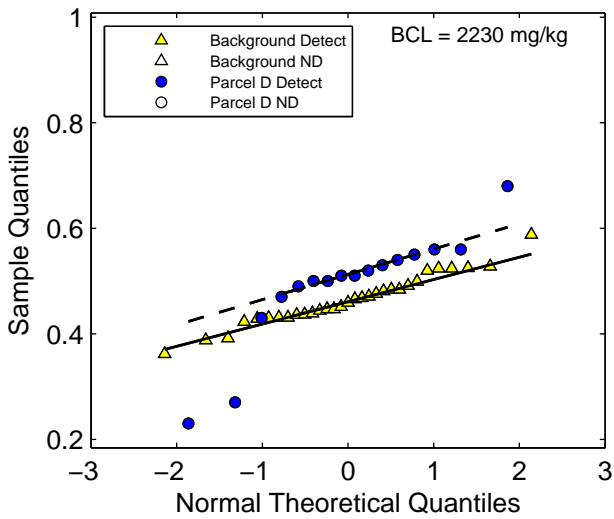
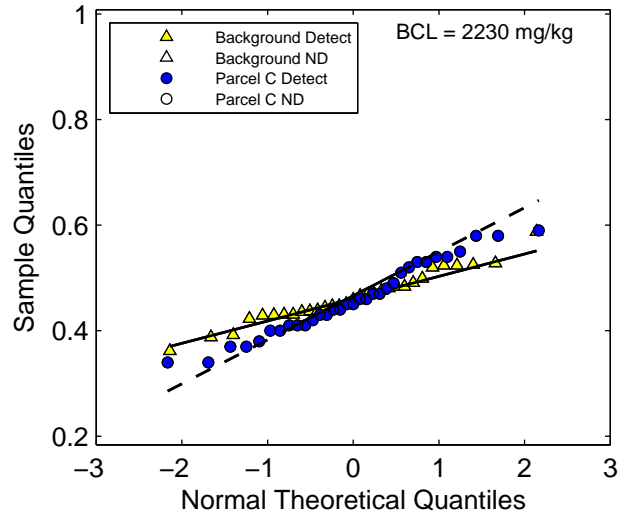
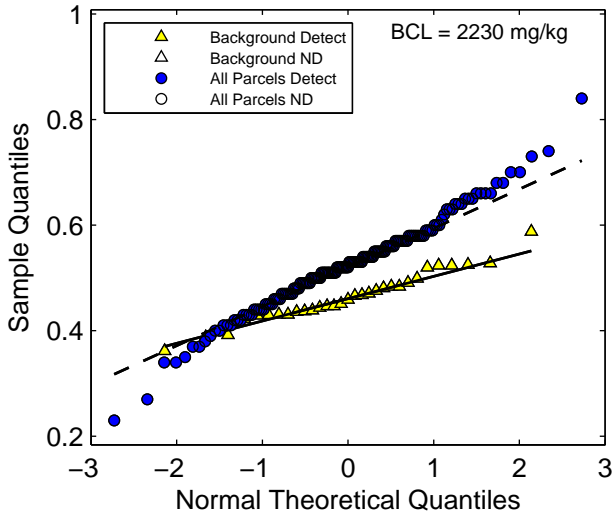


Figure 2-5B. Lognormal Q-Q Plots
Beryllium

DRAFT

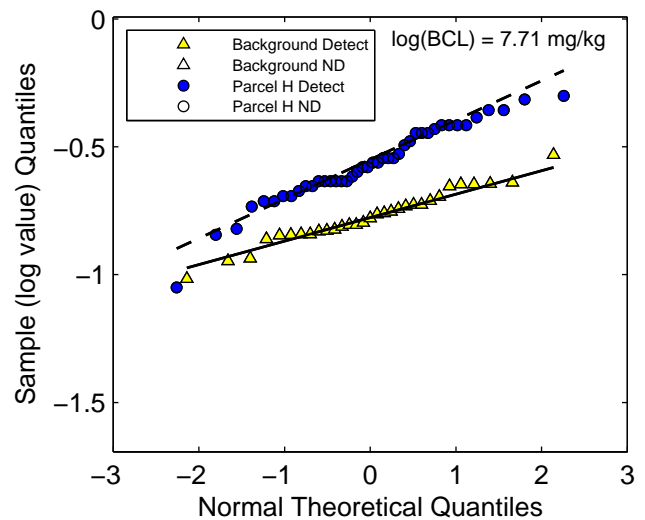
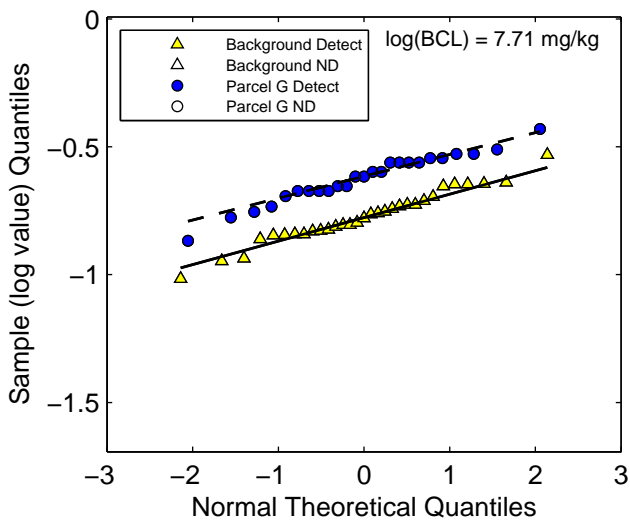
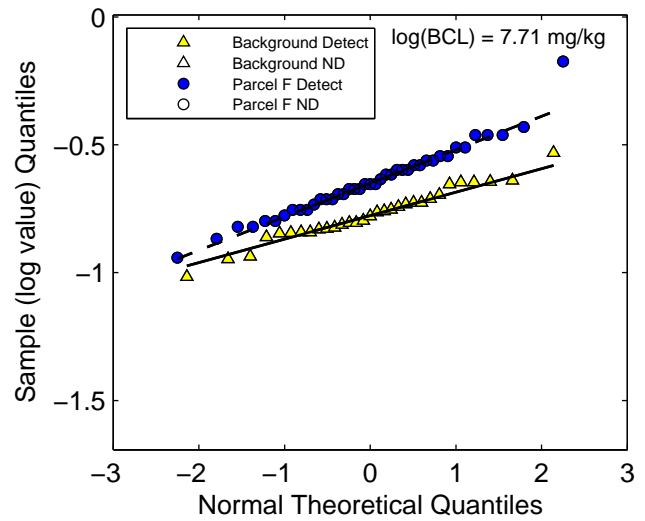
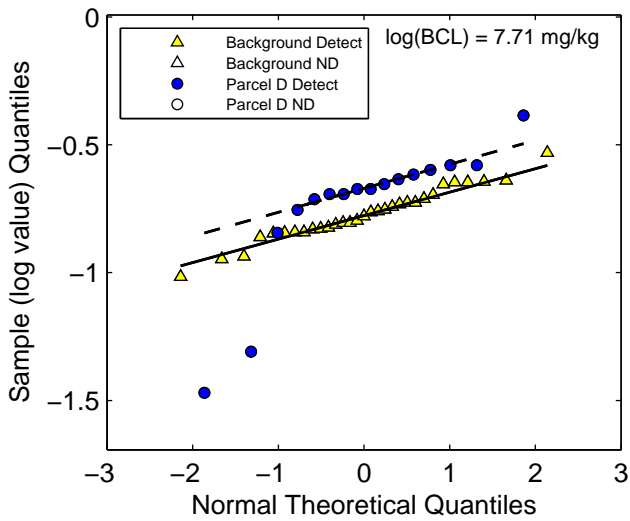
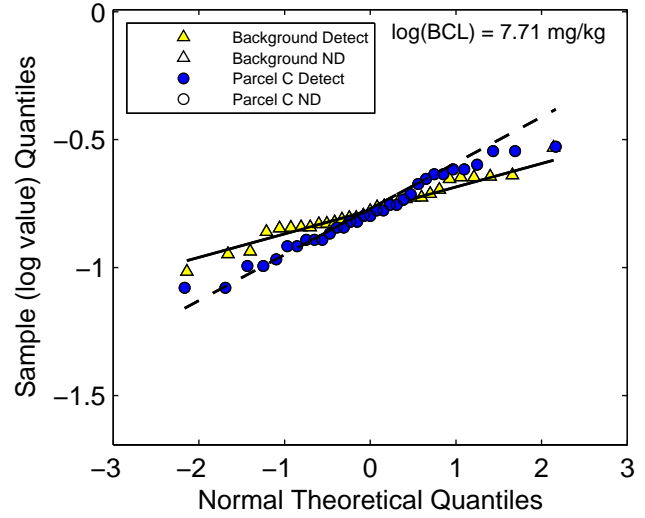
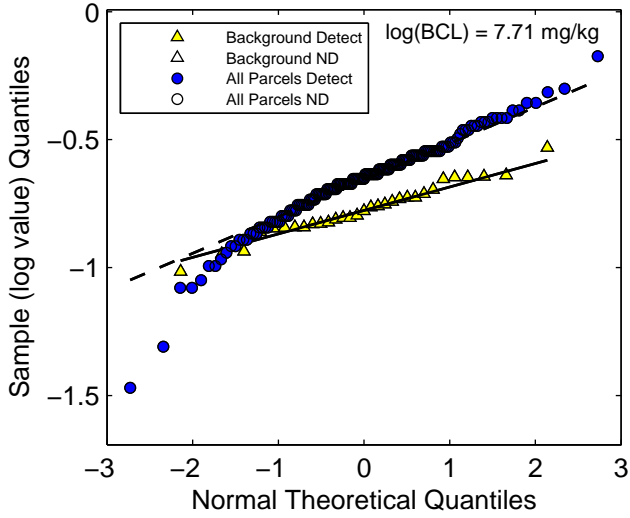


Figure 2-6A. Normal Q-Q Plots

DRAFT

Boron

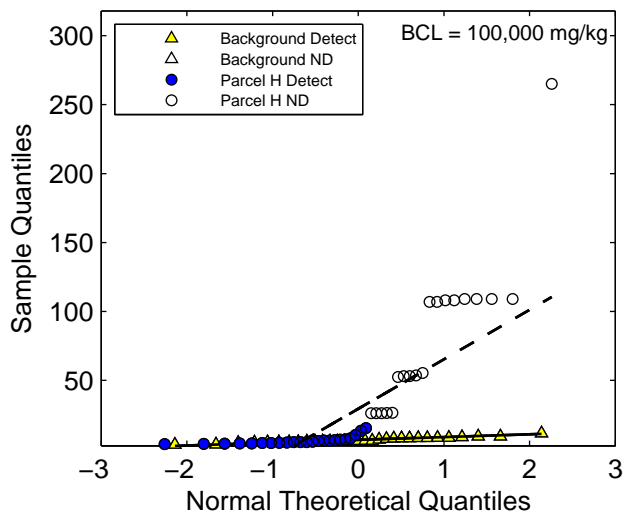
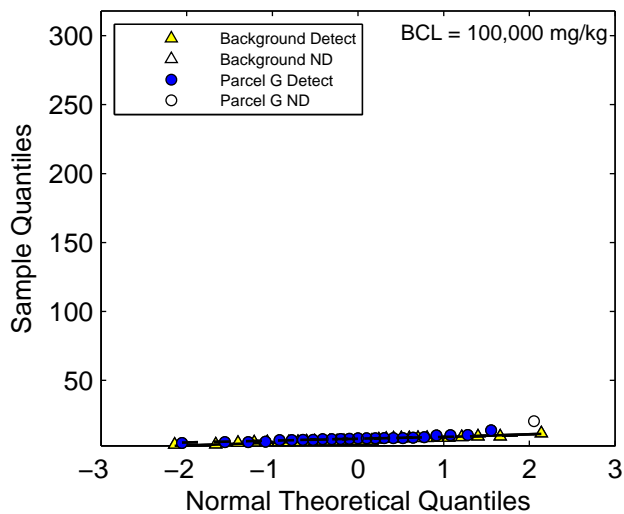
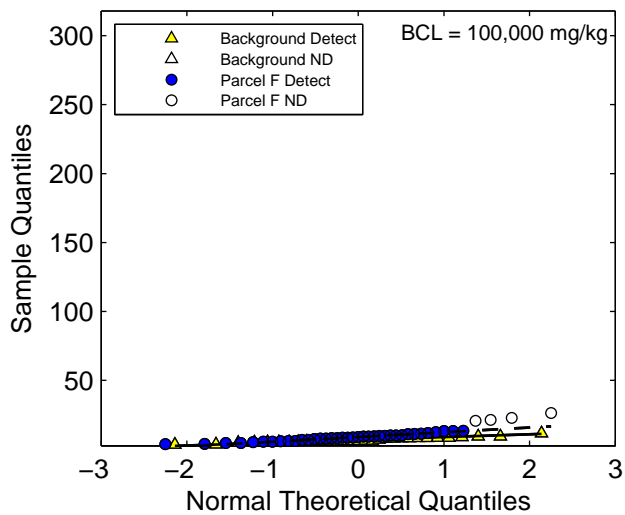
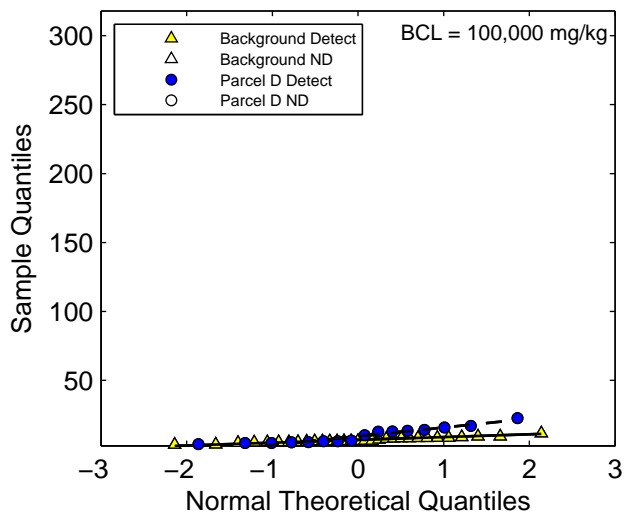
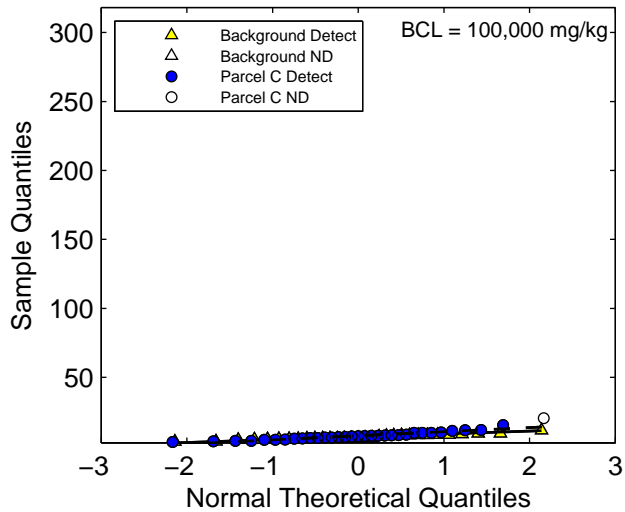
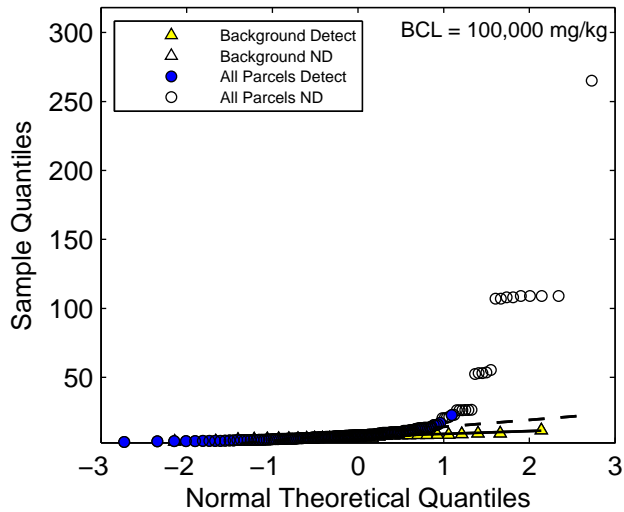


Figure 2-6B. Lognormal Q-Q Plots
Boron

DRAFT

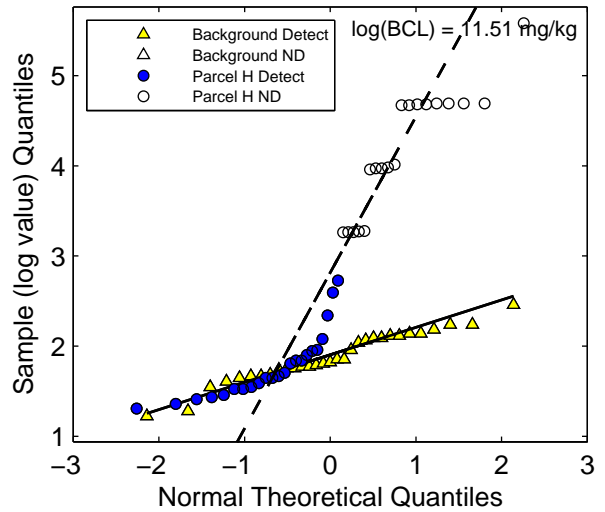
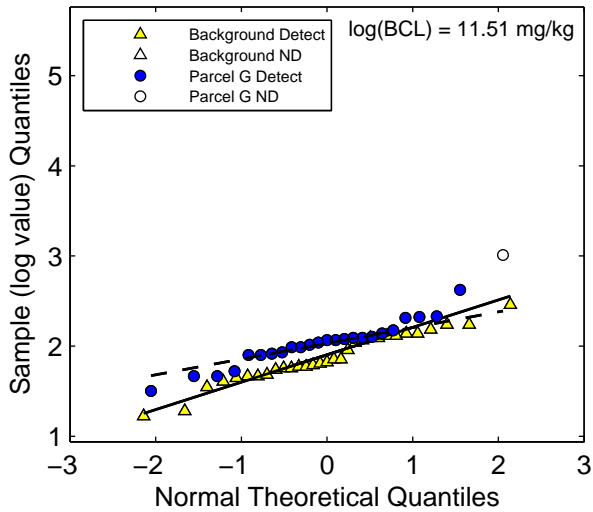
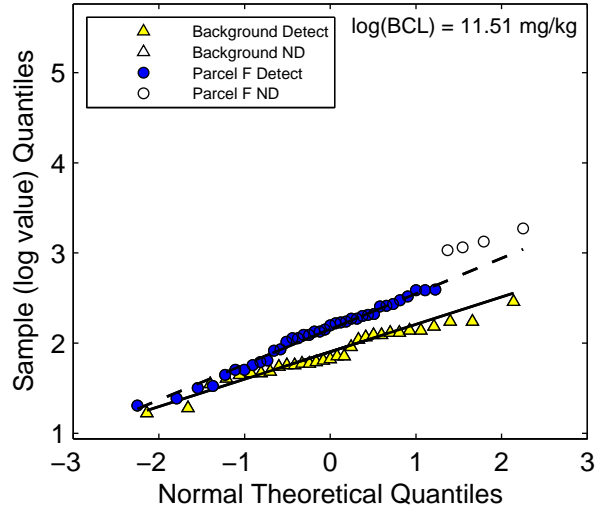
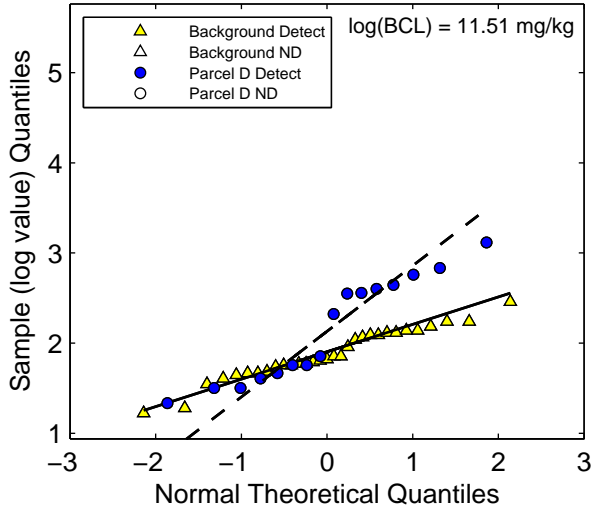
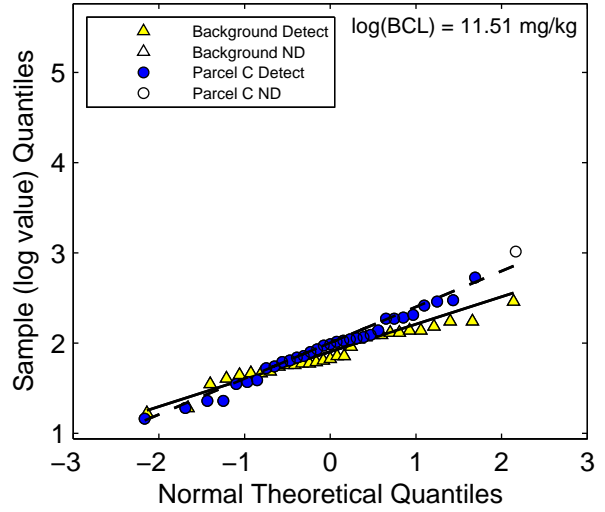
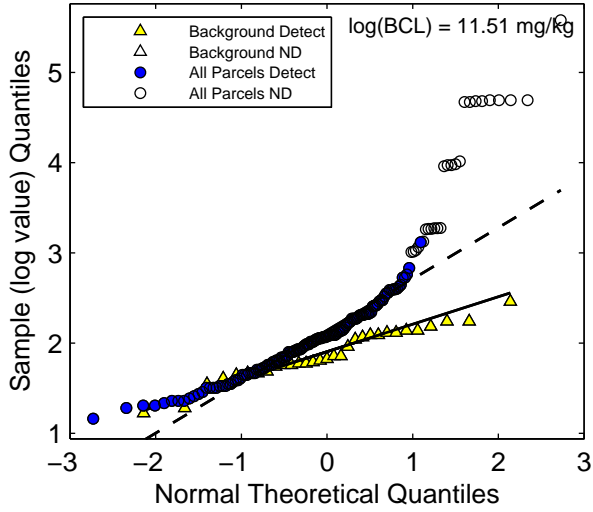


Figure 2-7A. Normal Q-Q Plots
Cadmium

DRAFT

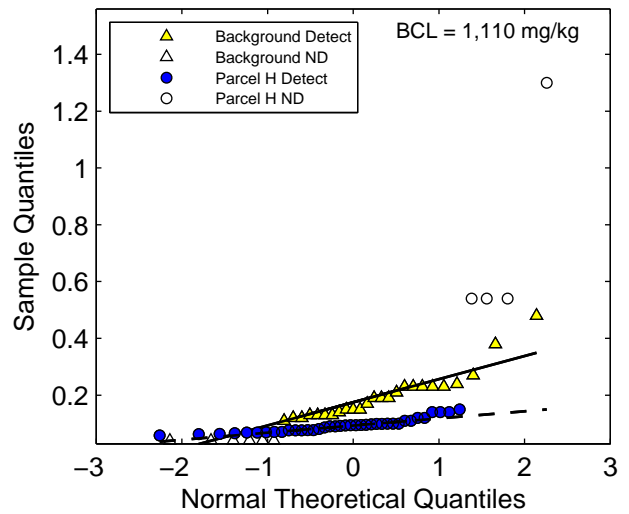
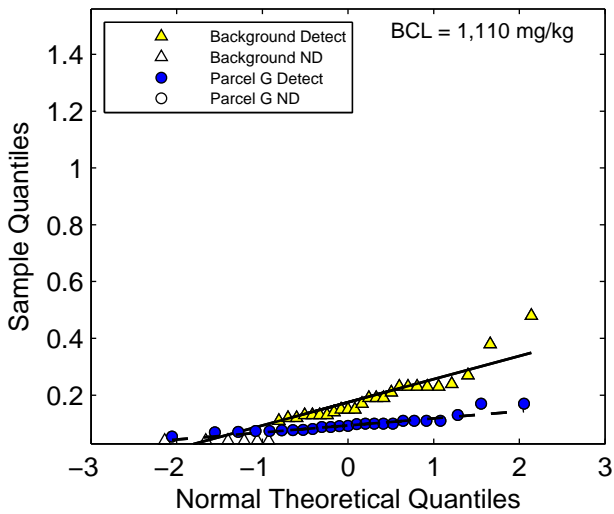
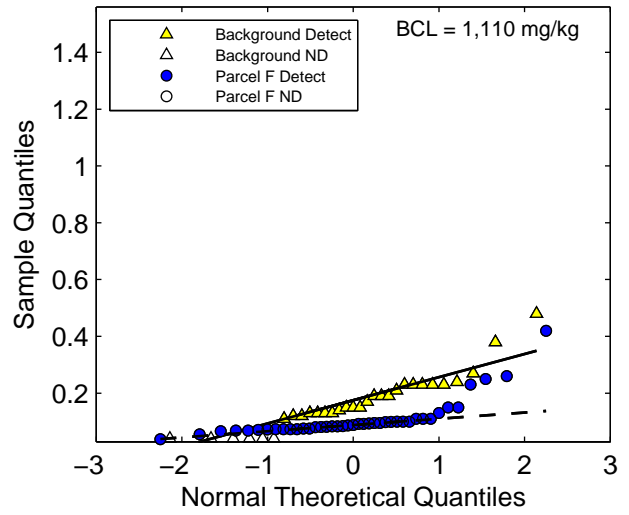
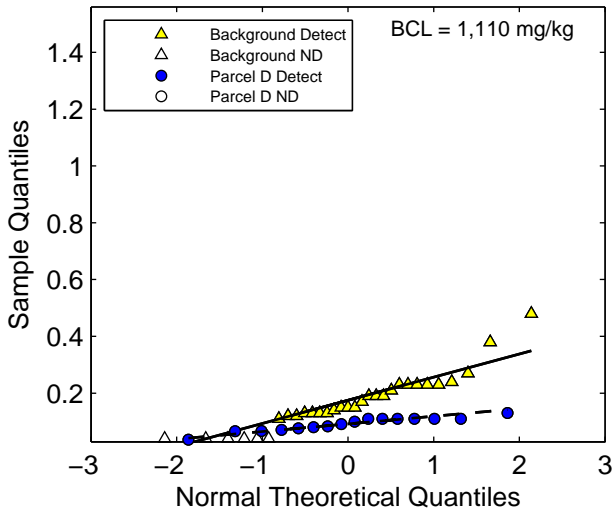
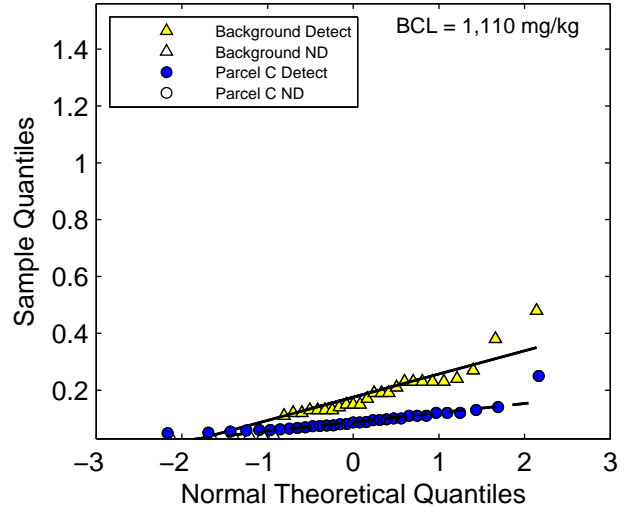
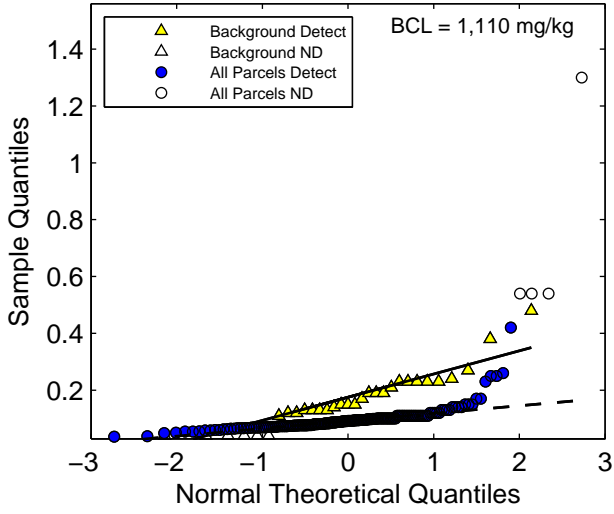


Figure 2-7B. Lognormal Q-Q Plots
Cadmium

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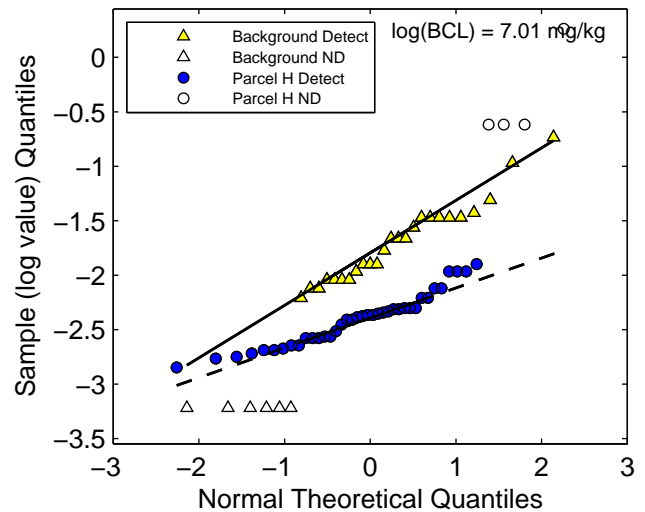
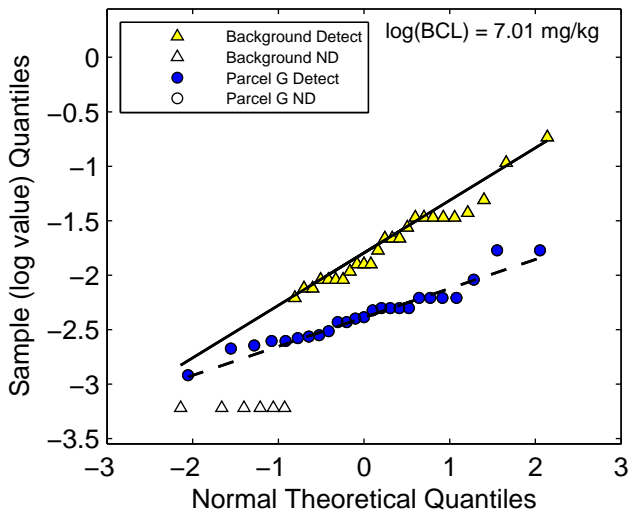
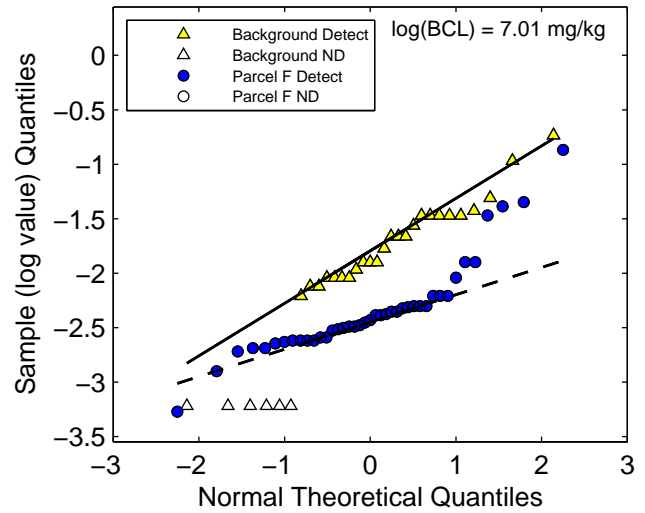
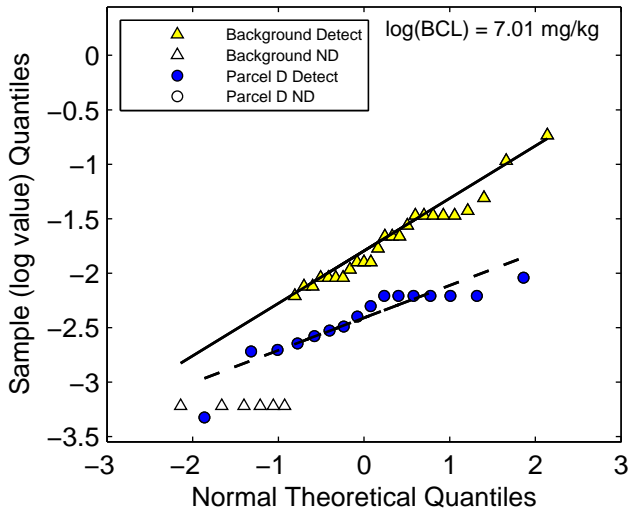
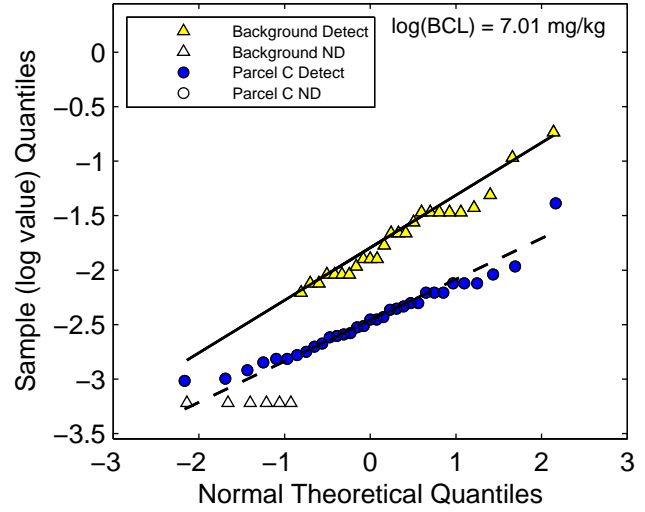
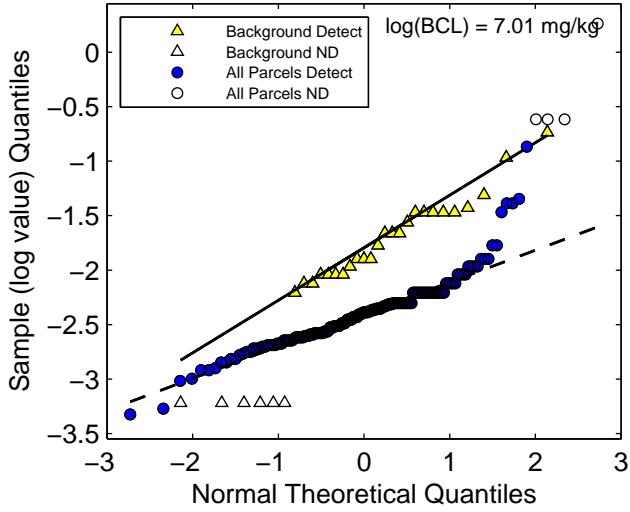


Figure 2-8A. Normal Q-Q Plots
Chromium (Total)

DRAFT

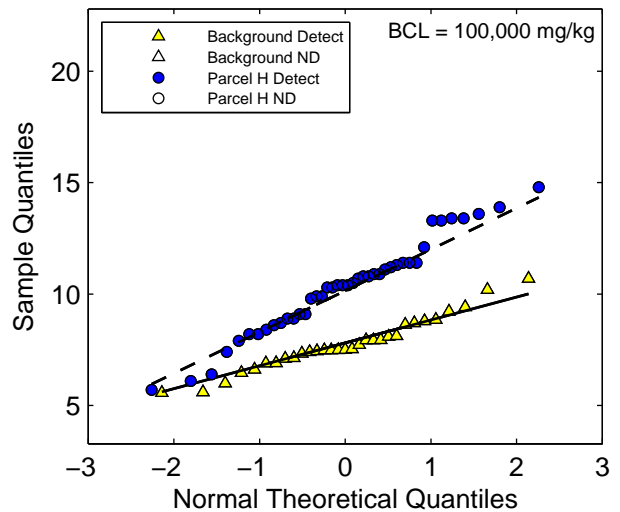
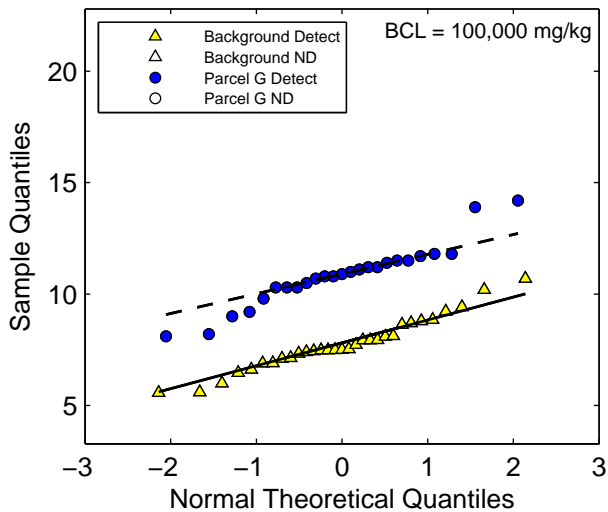
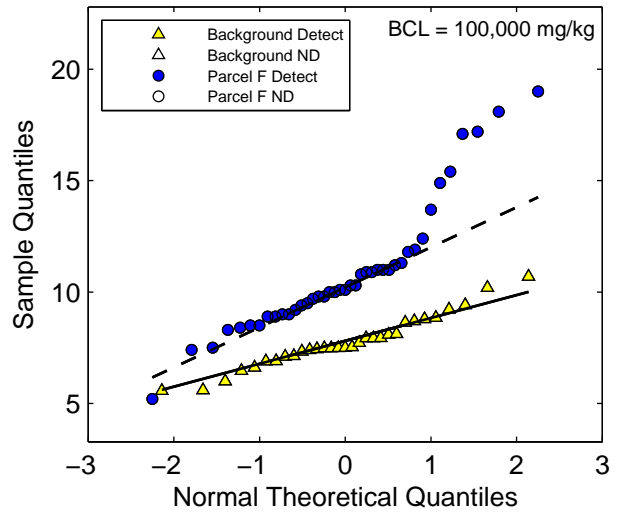
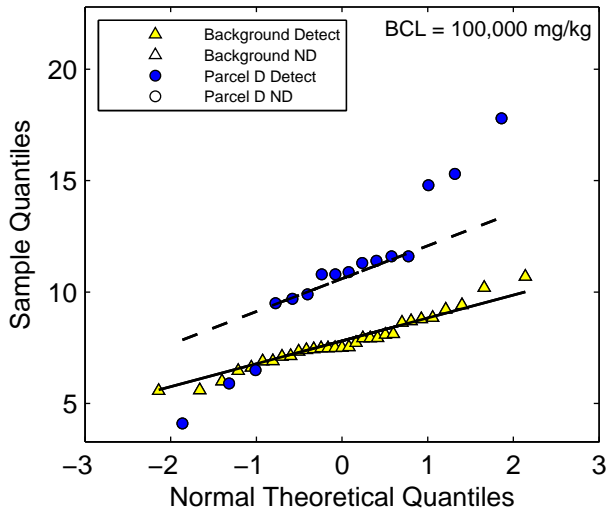
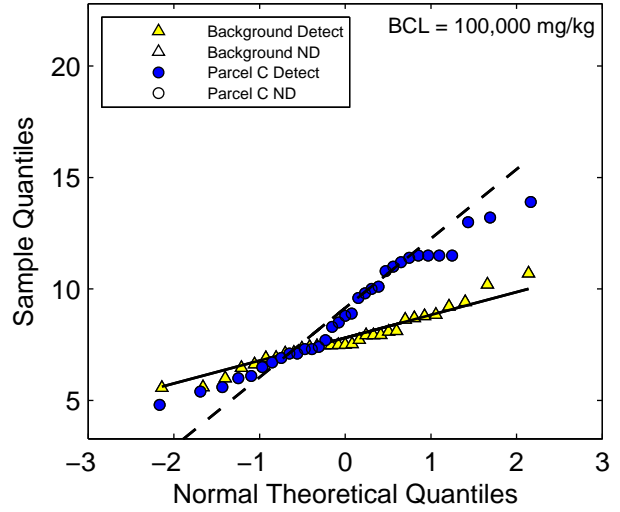
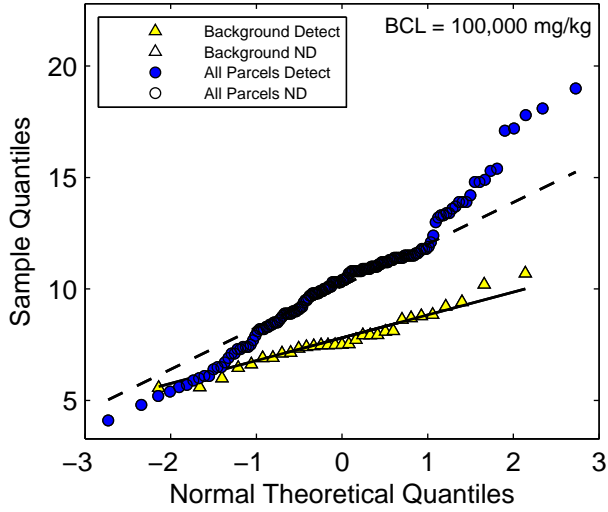


Figure 2-8B. Lognormal Q-Q Plots
Chromium (Total)

DRAFT

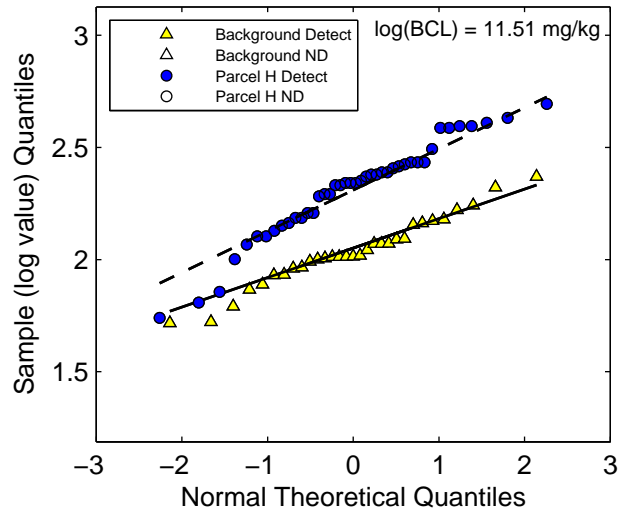
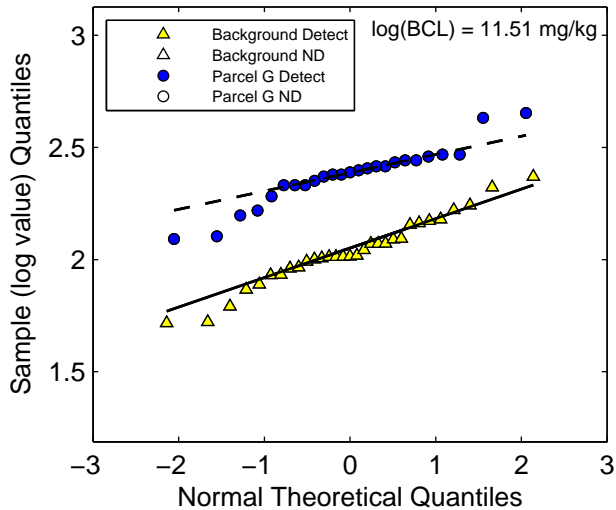
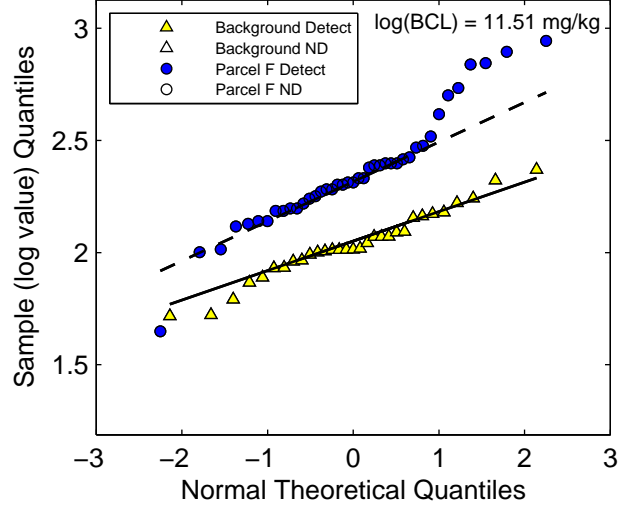
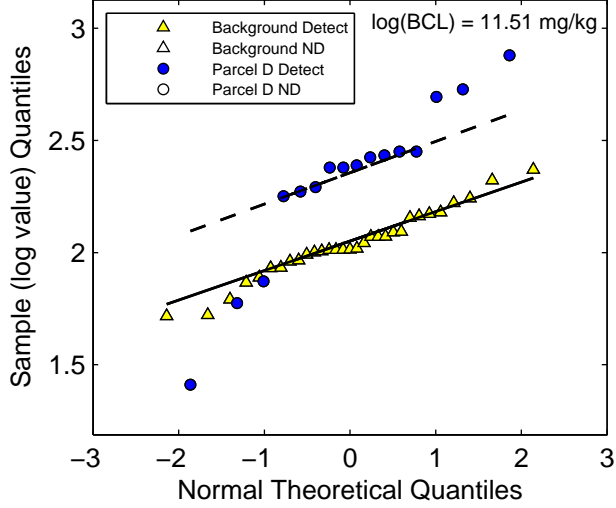
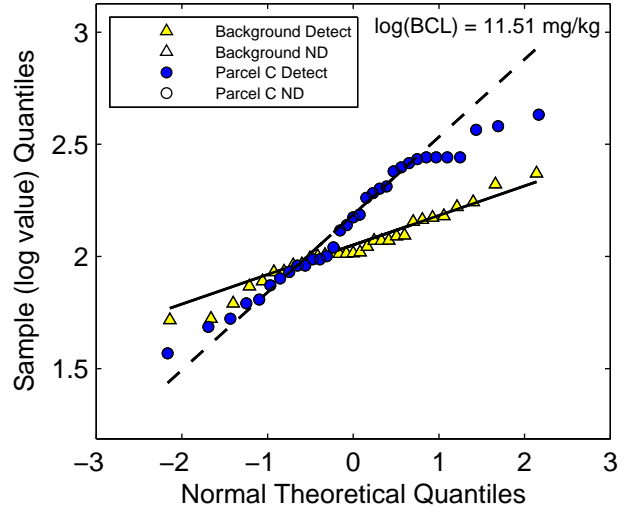
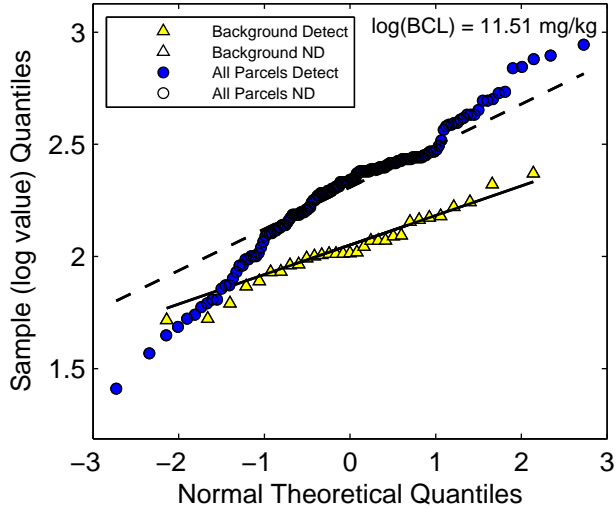


Figure 2-9A. Normal Q-Q Plots
Chromium (VI)

DRAFT

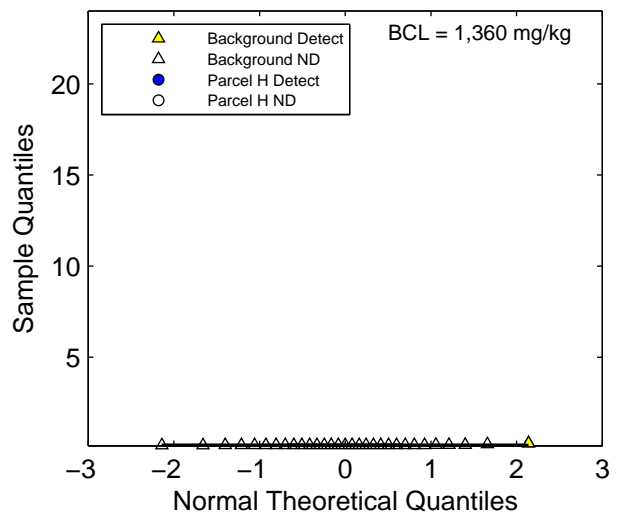
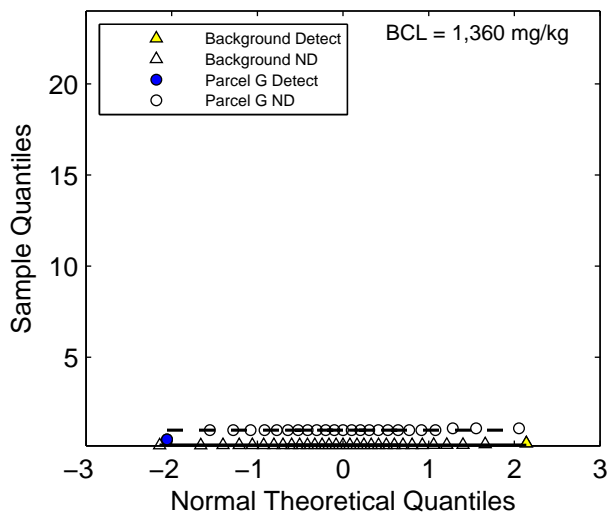
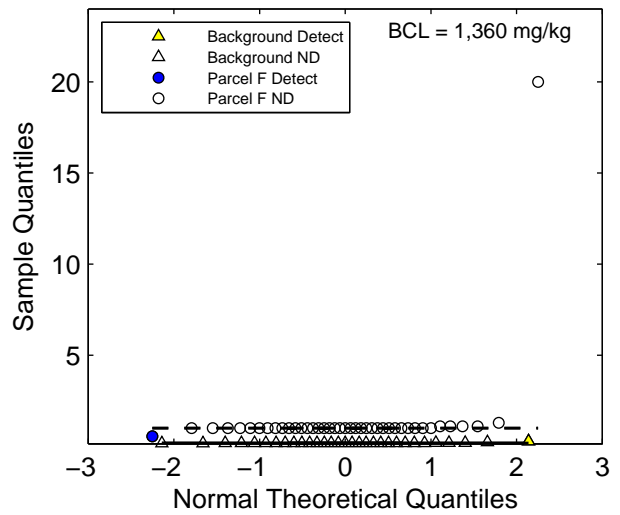
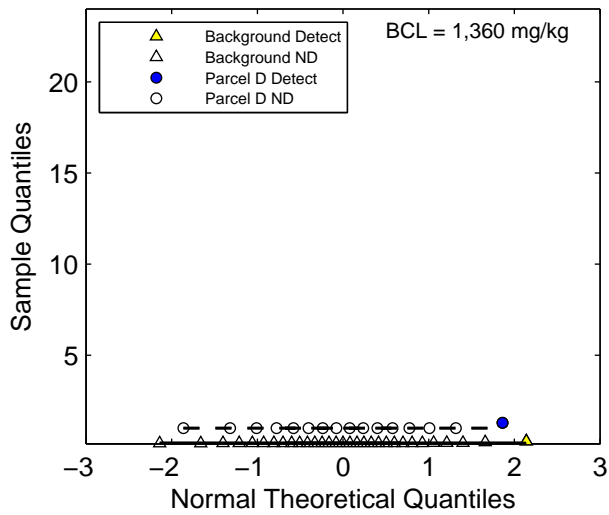
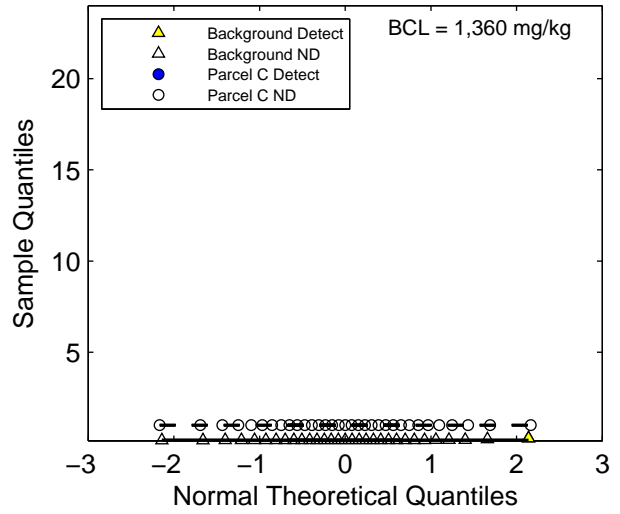
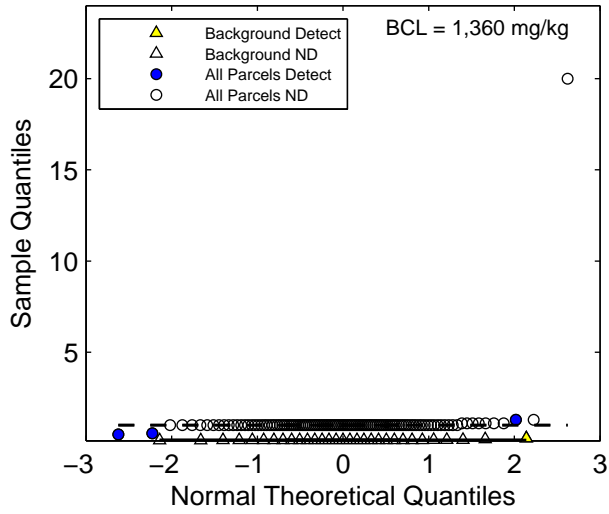


Figure 2-9B. Lognormal Q-Q Plots
Chromium (VI)

DRAFT

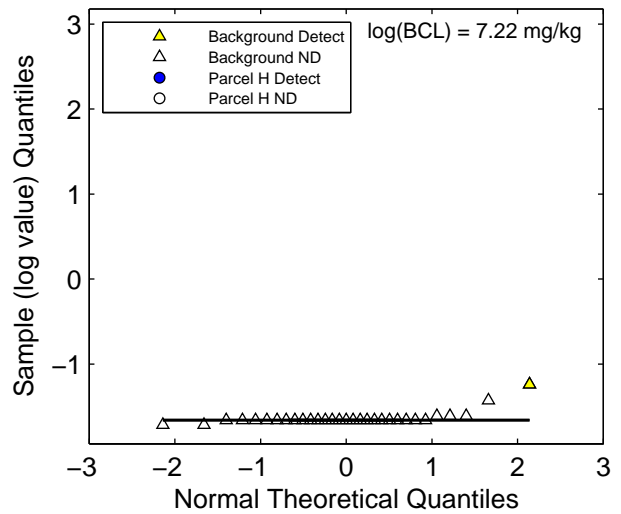
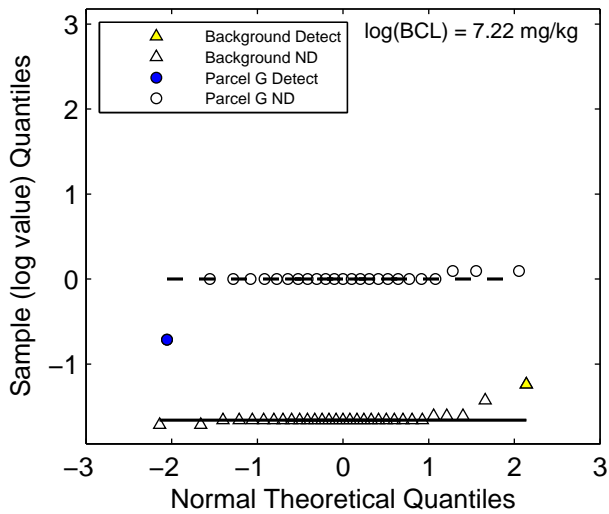
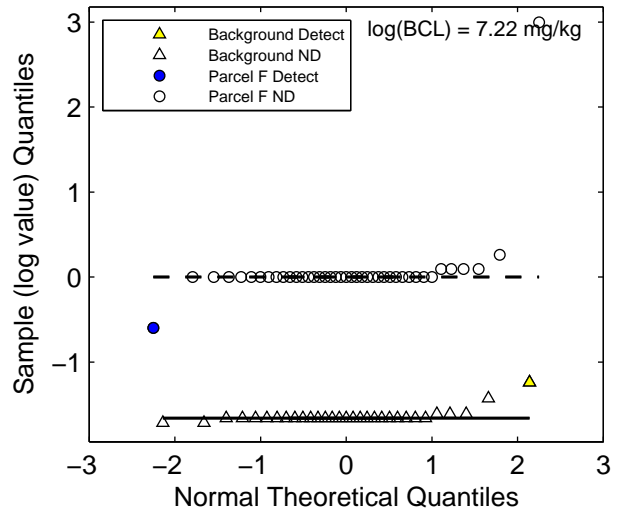
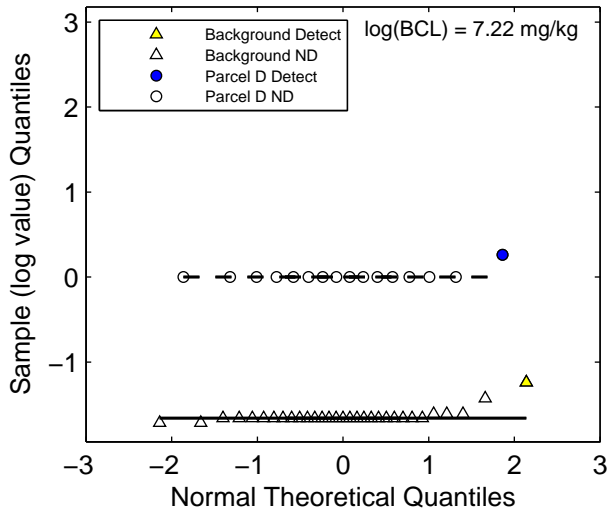
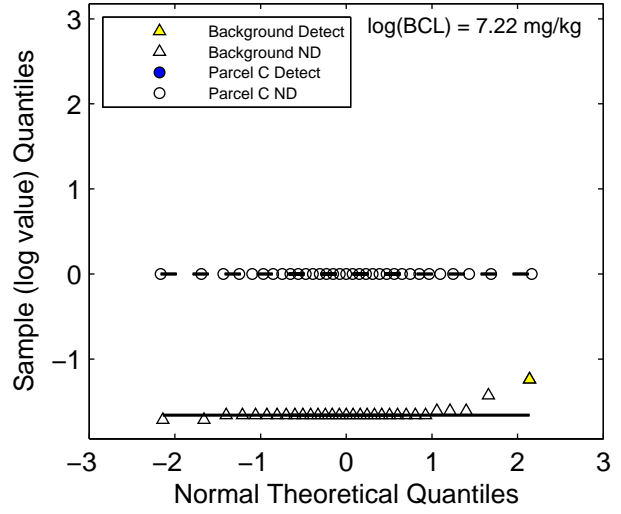
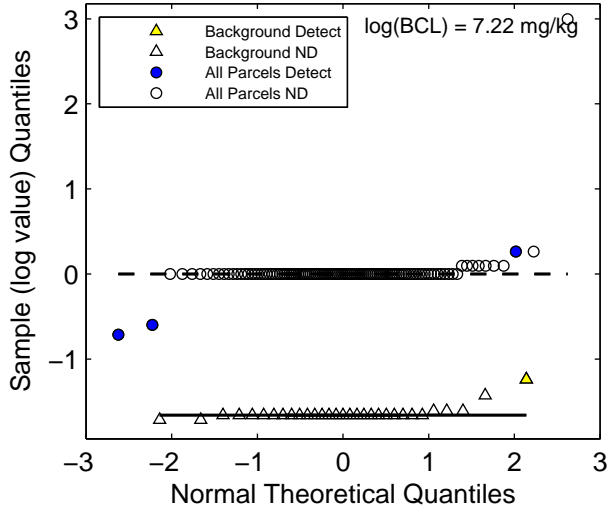


Figure 2-10A. Normal Q-Q Plots
Cobalt

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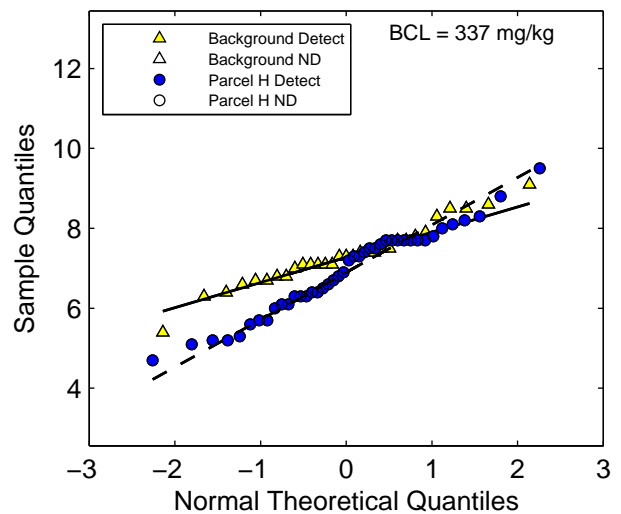
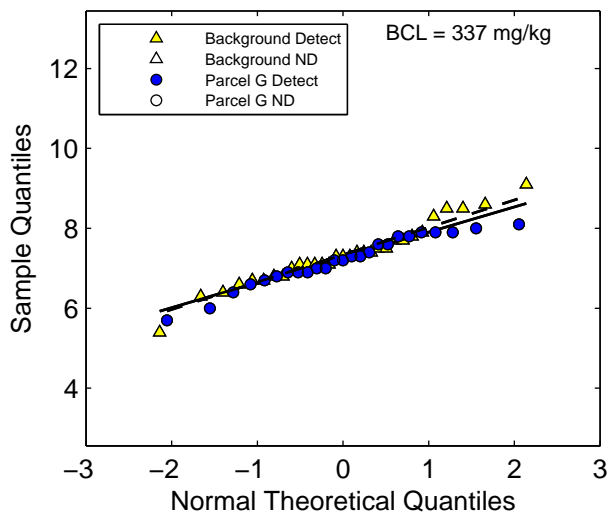
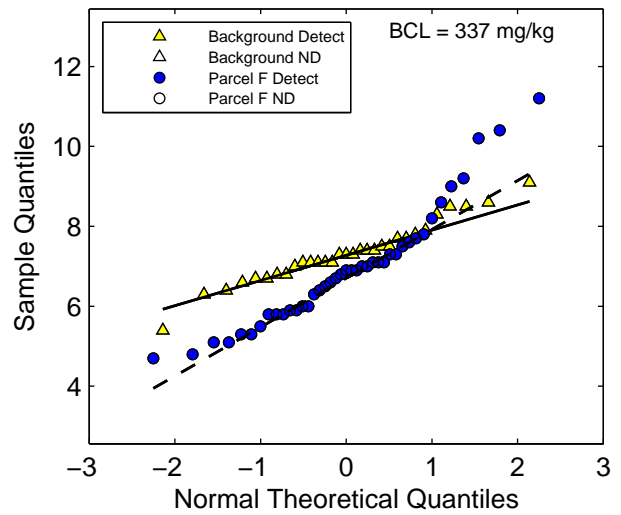
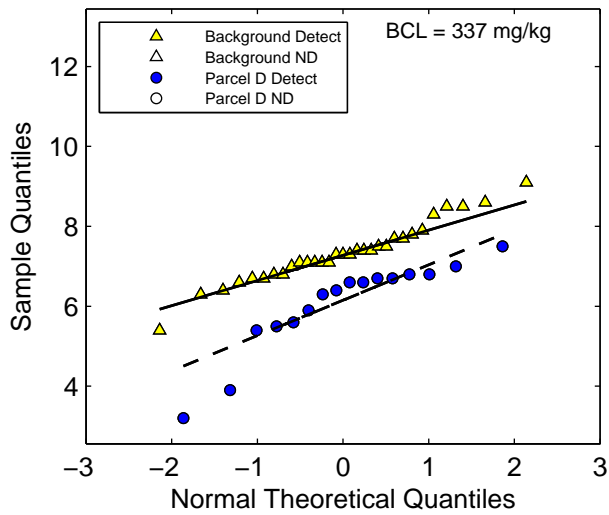
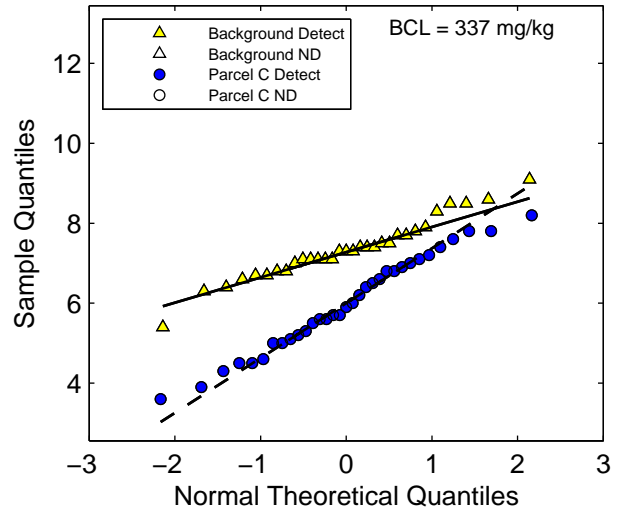
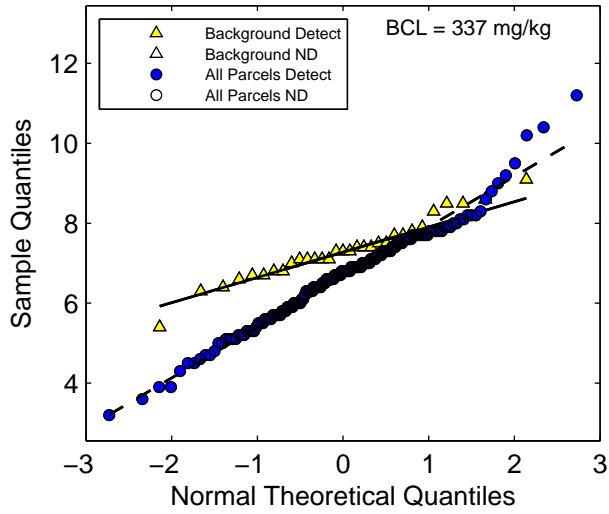


Figure 2-10B. Lognormal Q-Q Plots
Cobalt

DRAFT

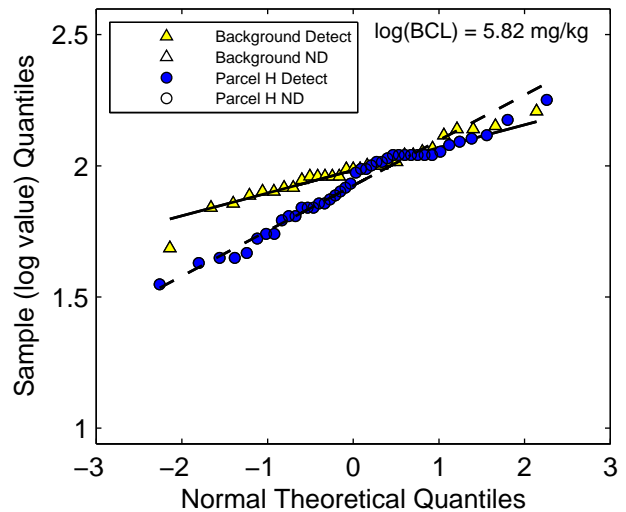
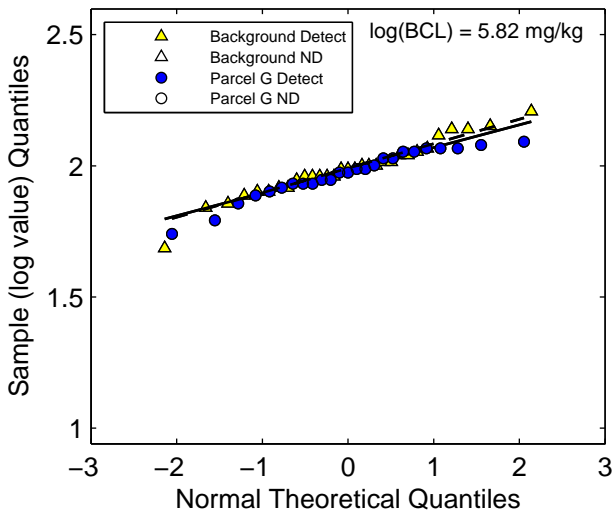
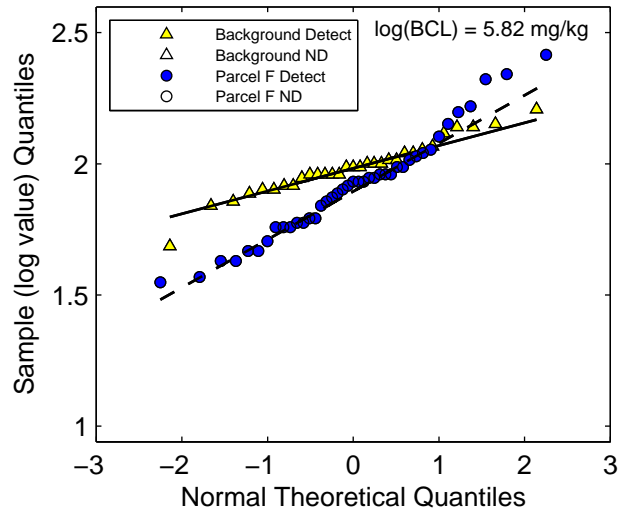
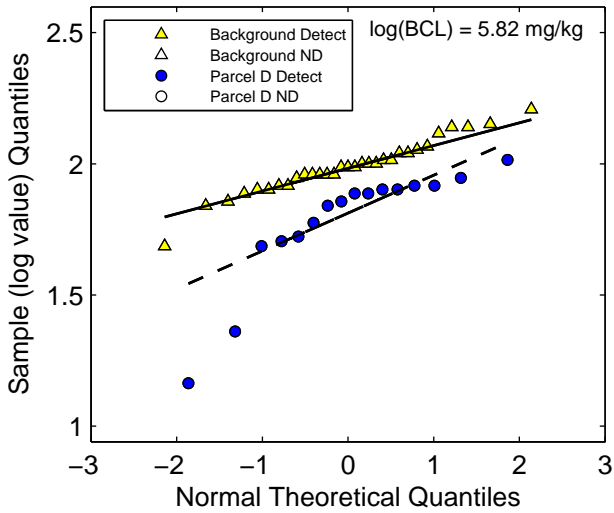
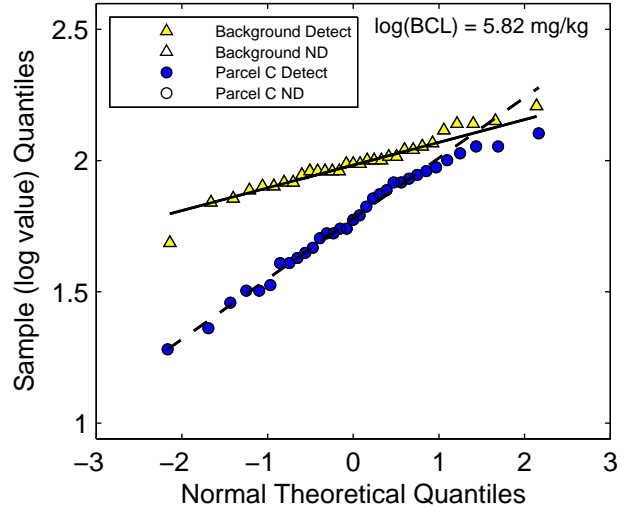
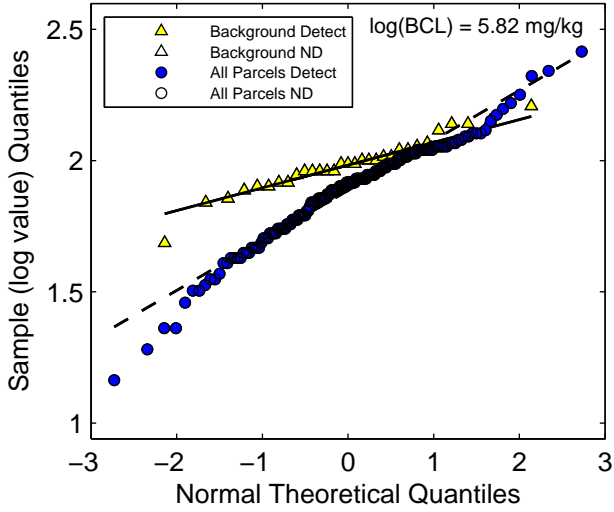


Figure 2-11A. Normal Q-Q Plots
Copper

DRAFT

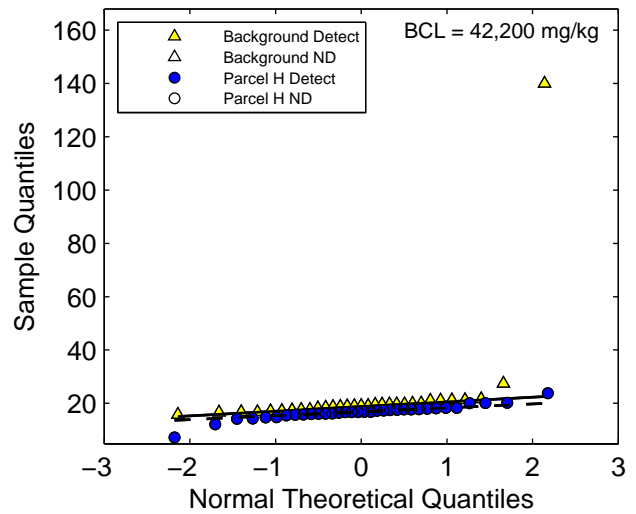
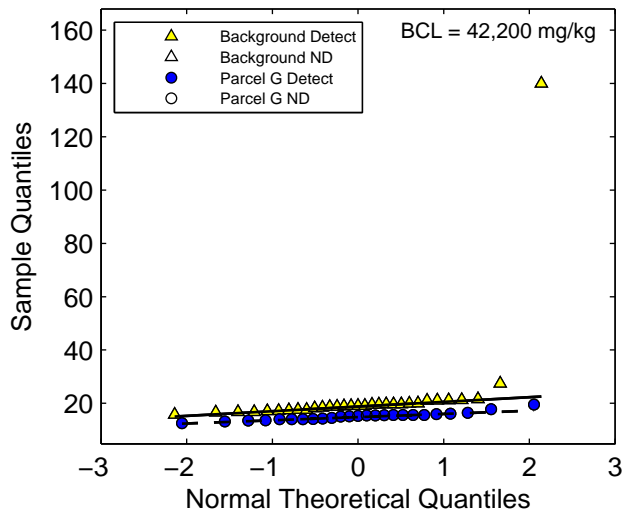
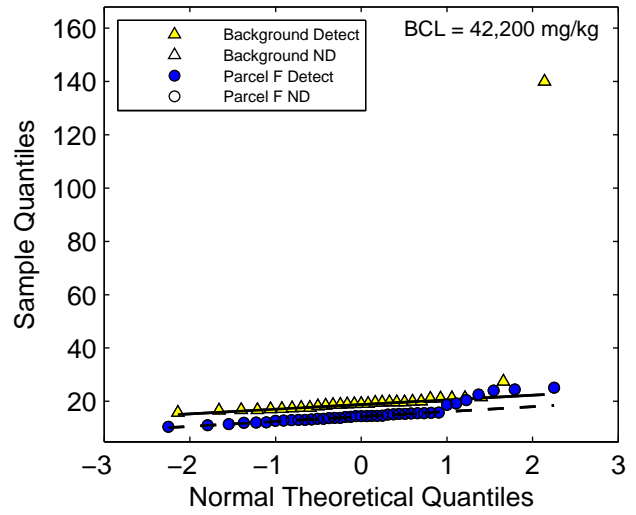
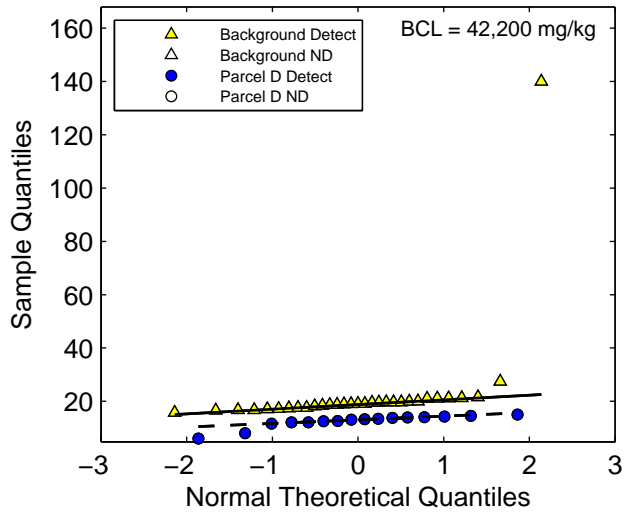
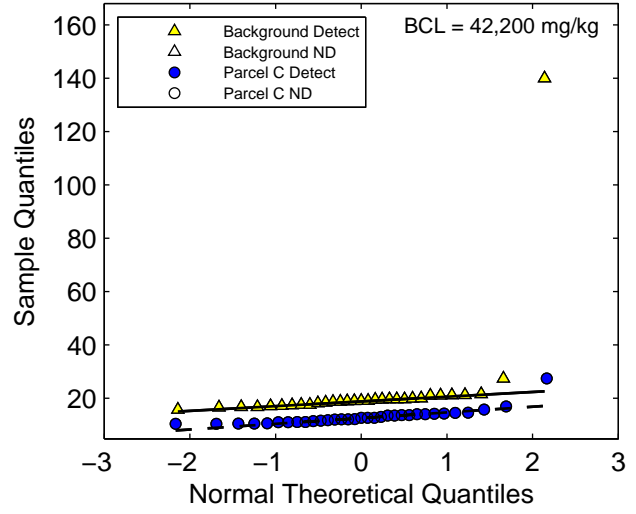
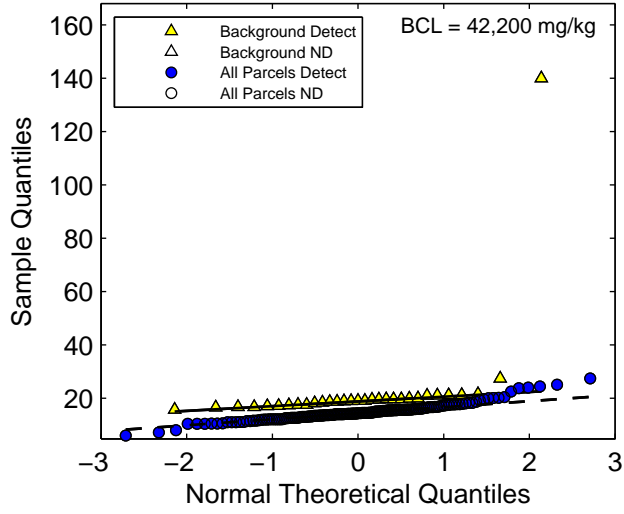


Figure 2-11B. Lognormal Q-Q Plots
Copper

DRAFT

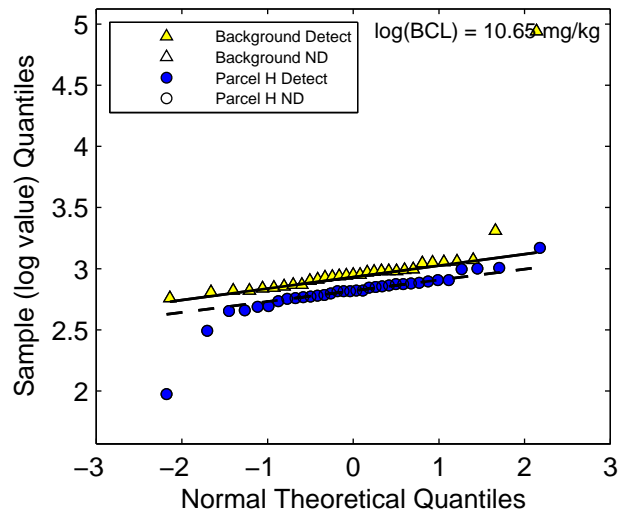
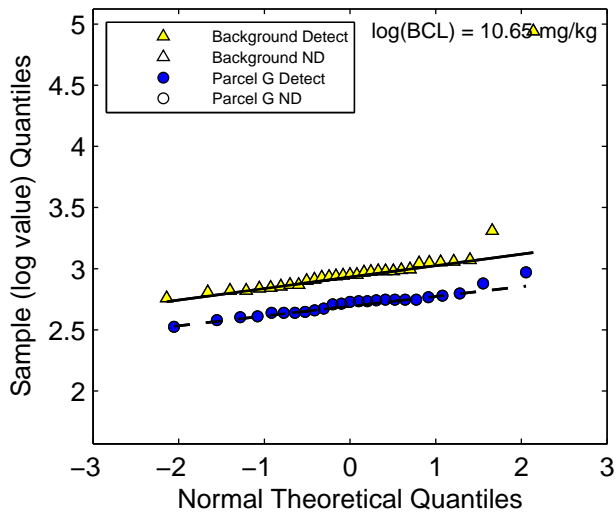
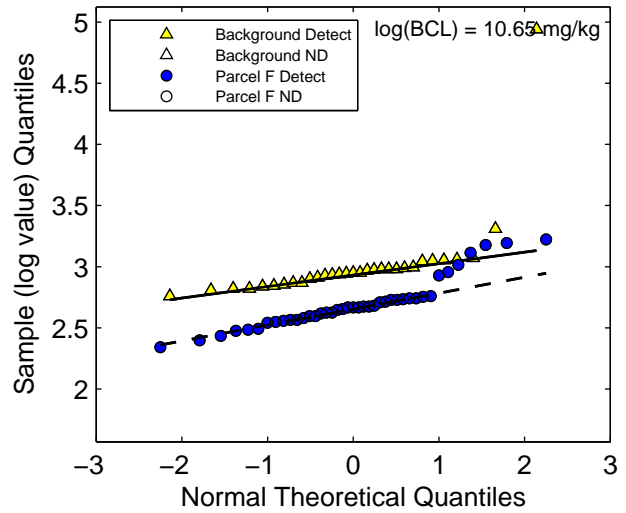
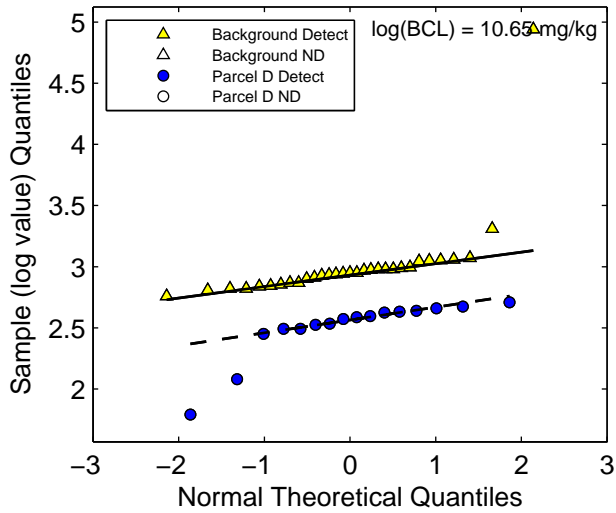
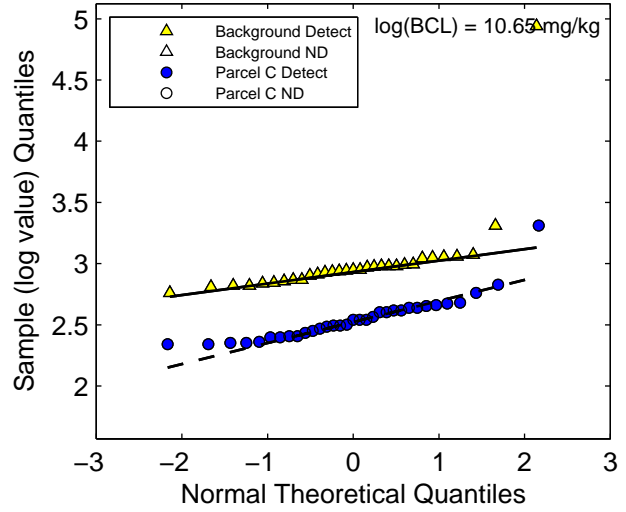
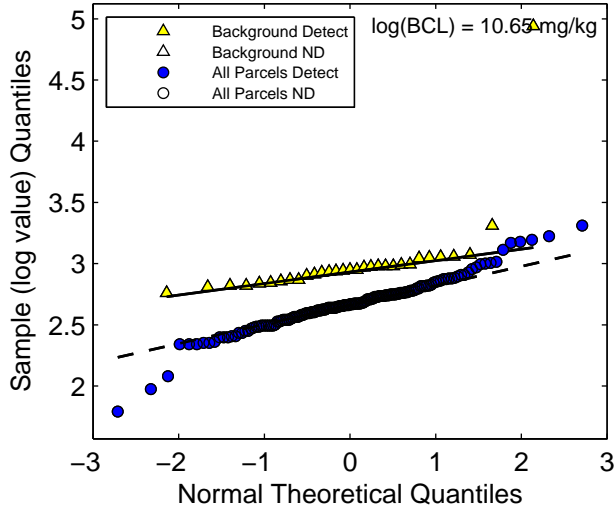


Figure 2-12A. Normal Q-Q Plots

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Iron

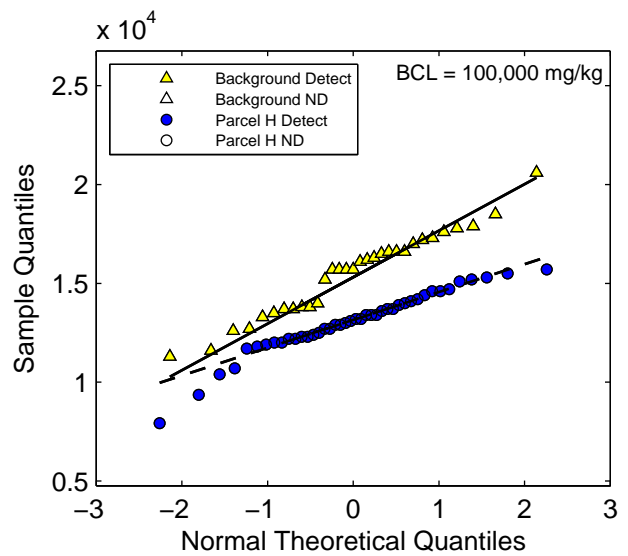
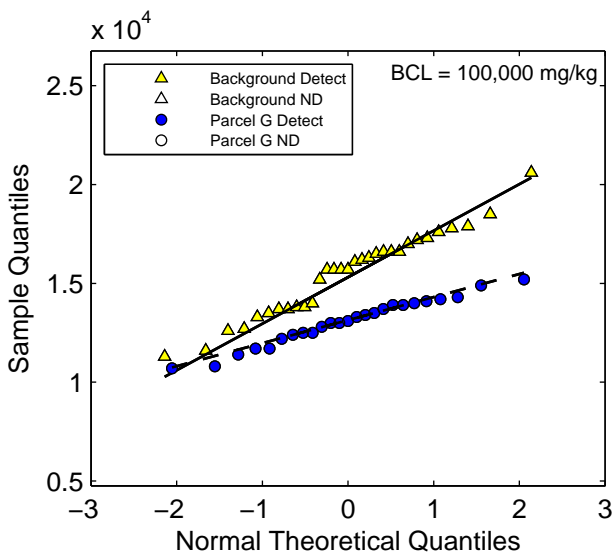
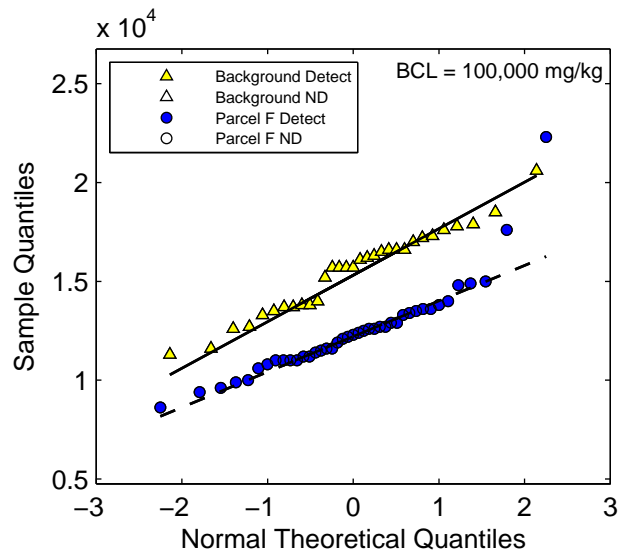
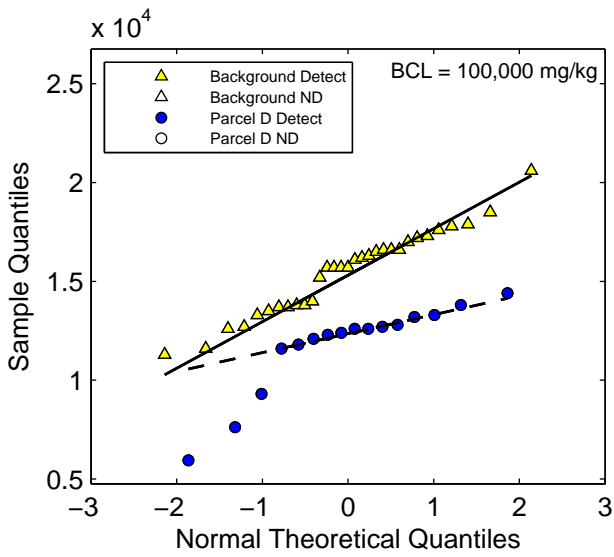
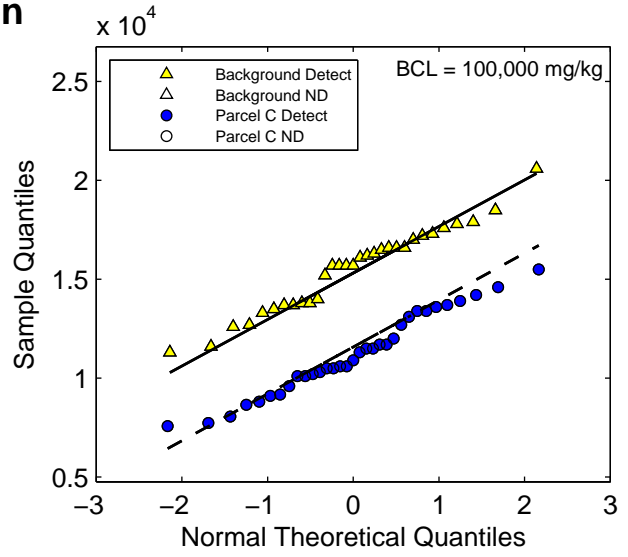
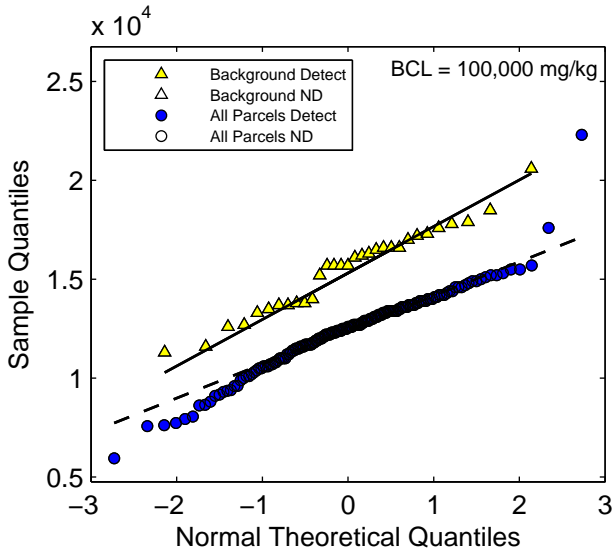


Figure 2-12B. Lognormal Q-Q Plots
Iron

DRAFT

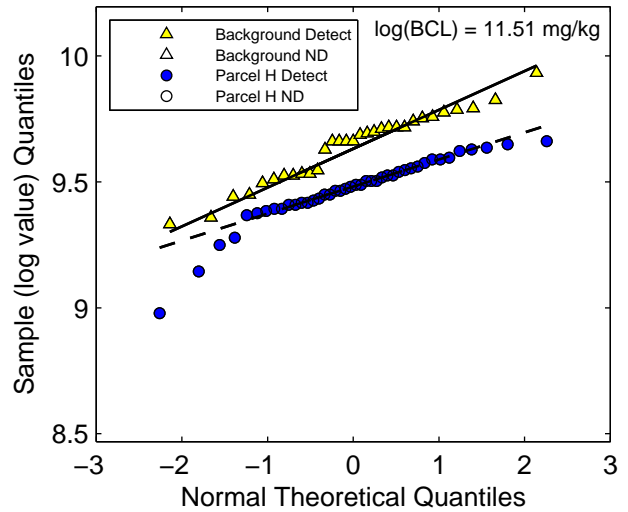
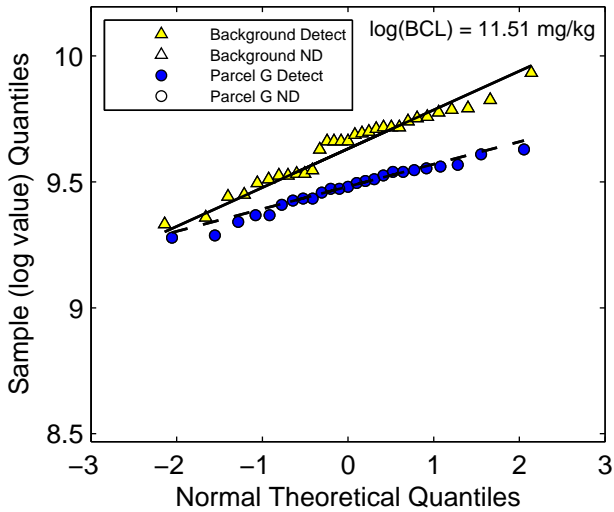
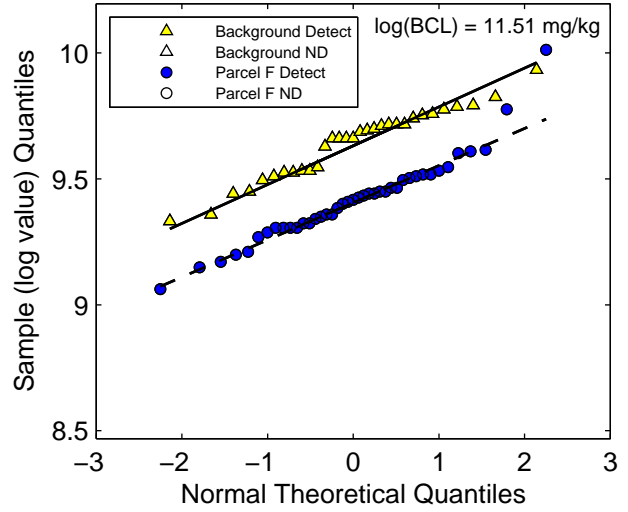
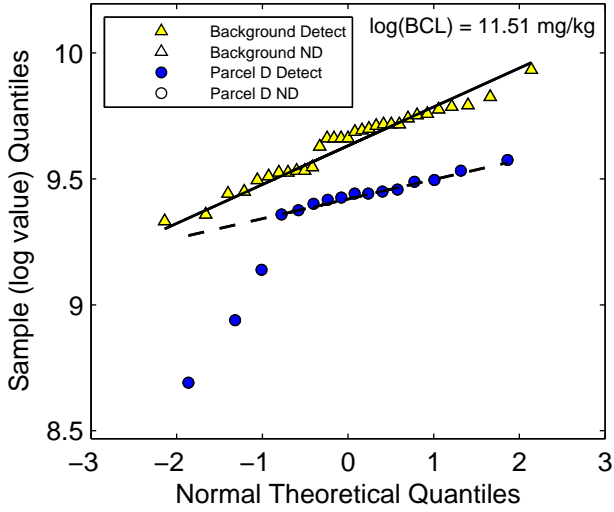
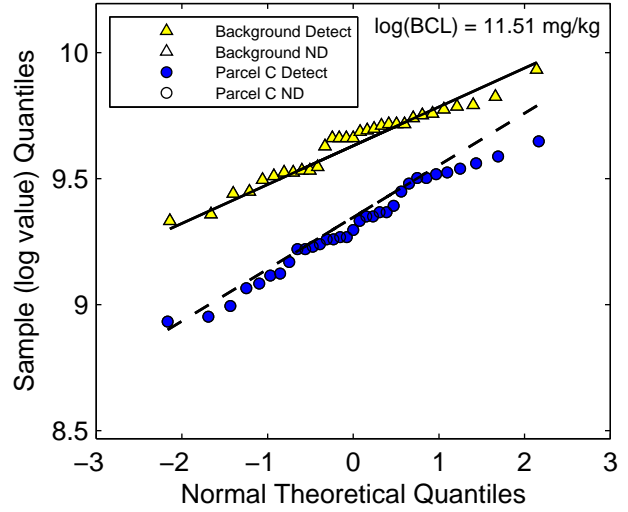
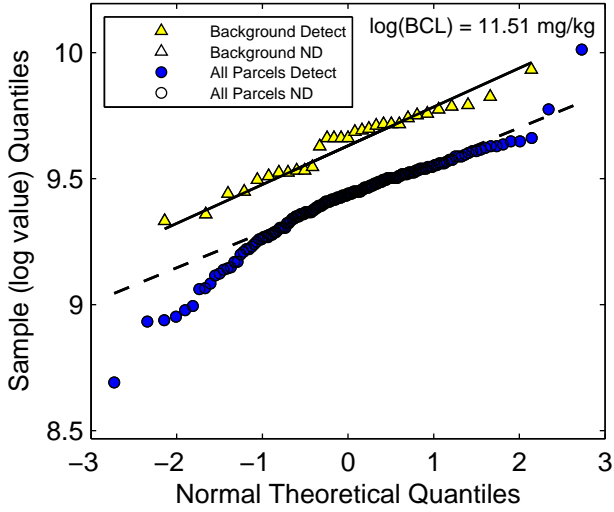


Figure 2-13A. Normal Q-Q Plots

DRAFT

Lead

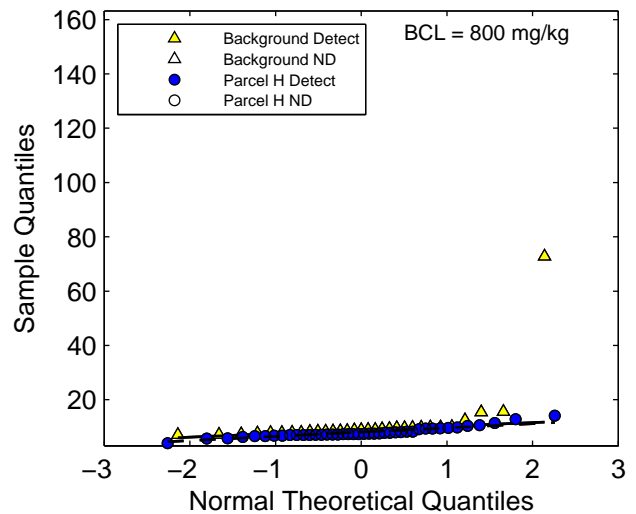
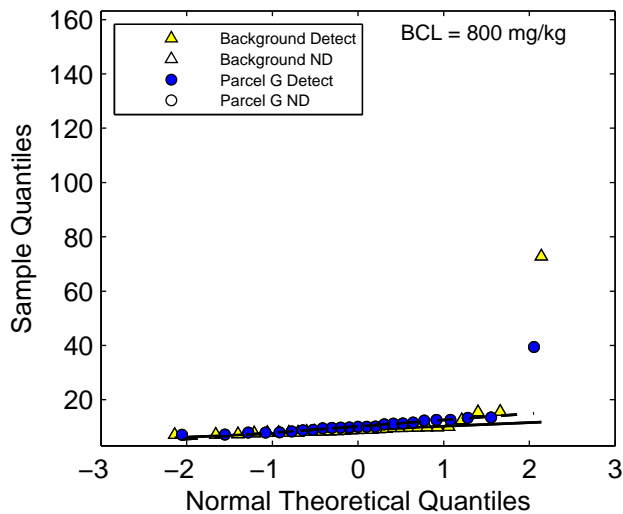
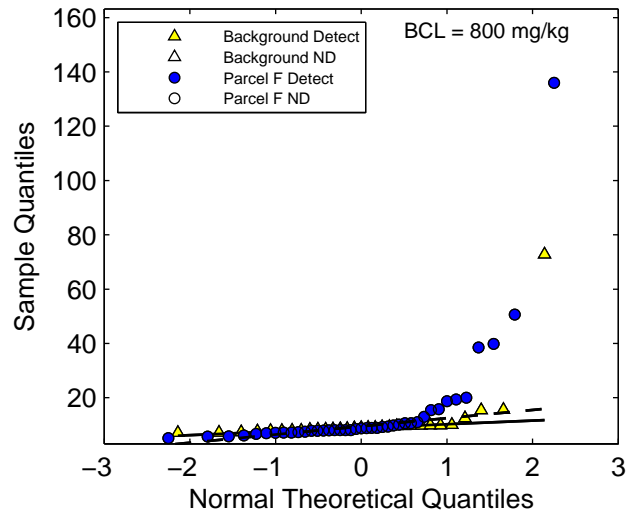
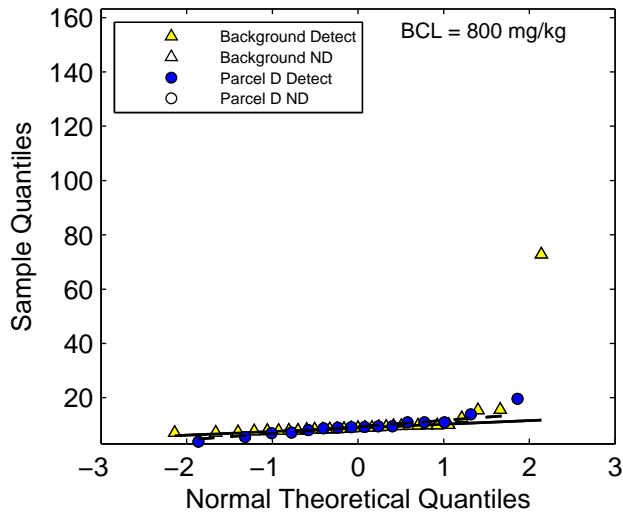
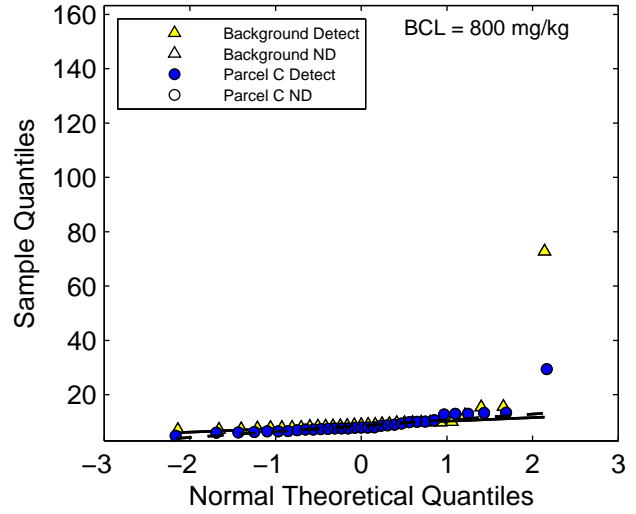
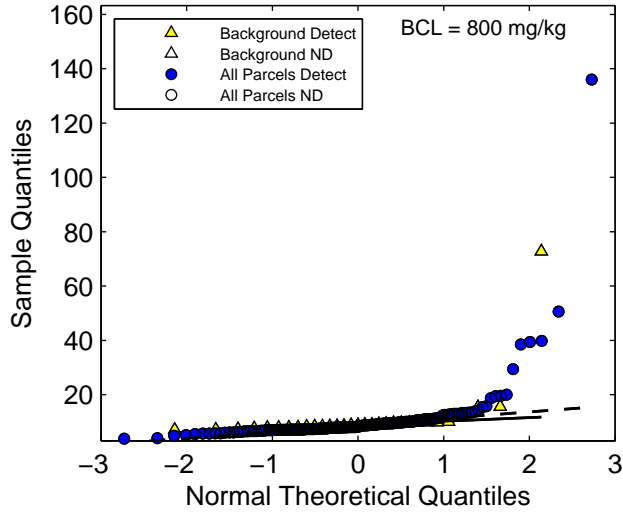


Figure 2-13B. Lognormal Q-Q Plots

DRAFT

Lead

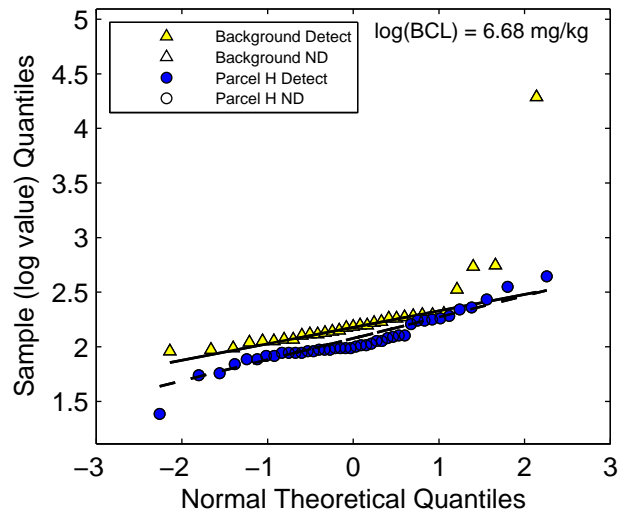
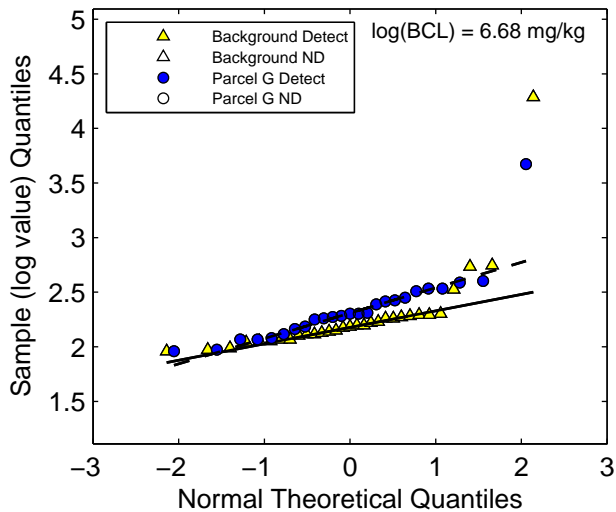
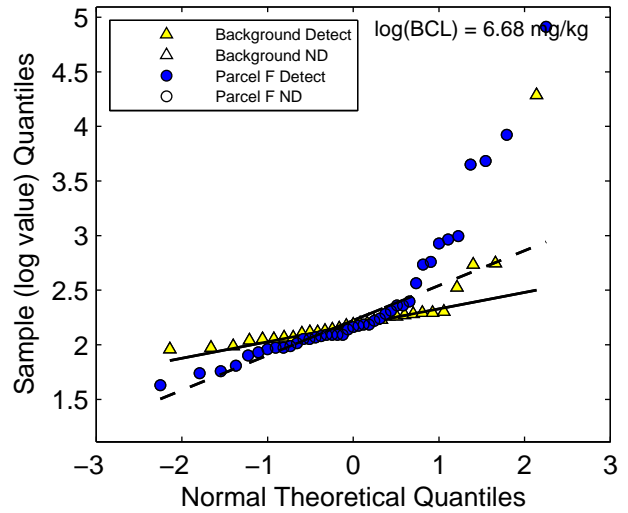
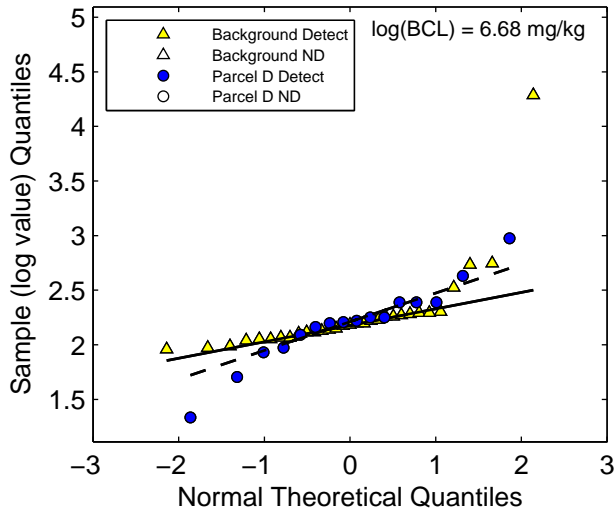
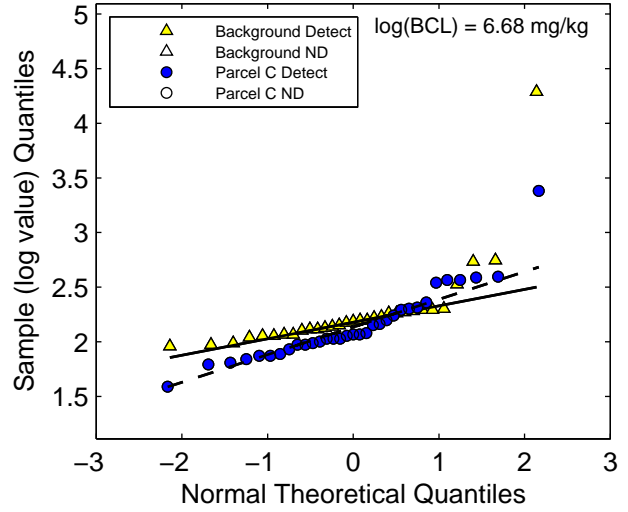
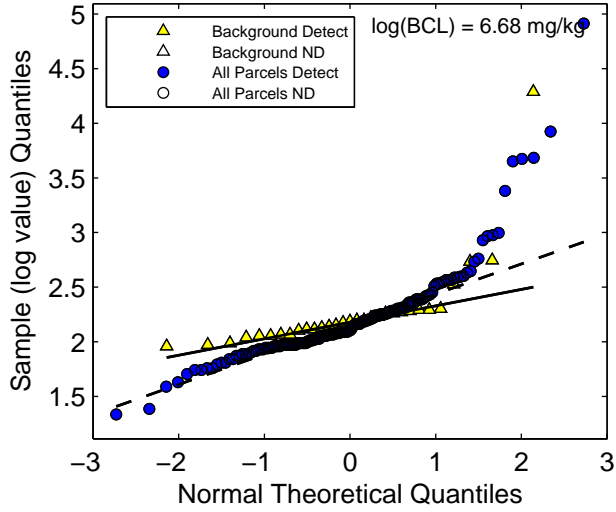


Figure 2-14A. Normal Q-Q Plots

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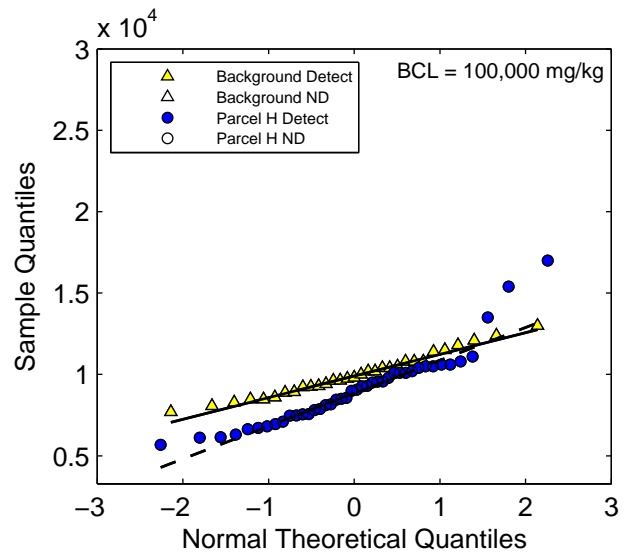
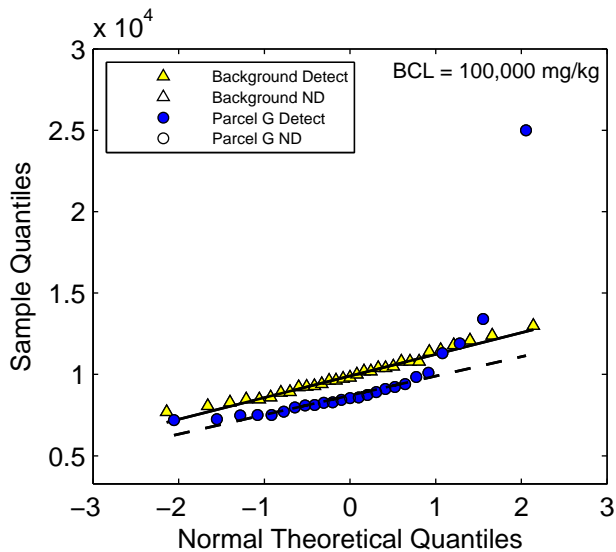
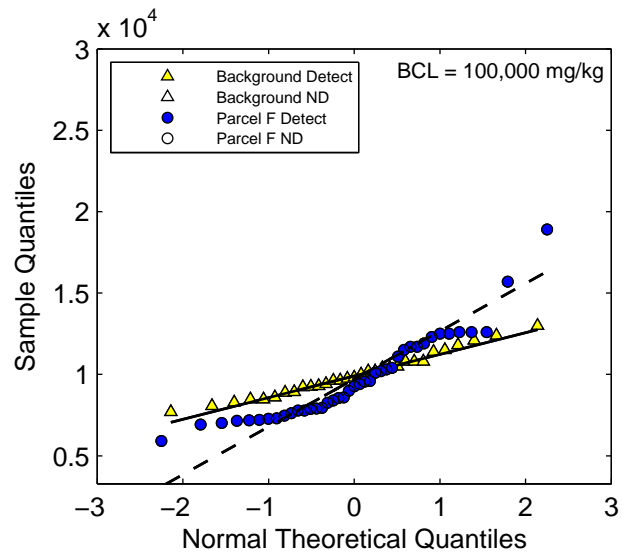
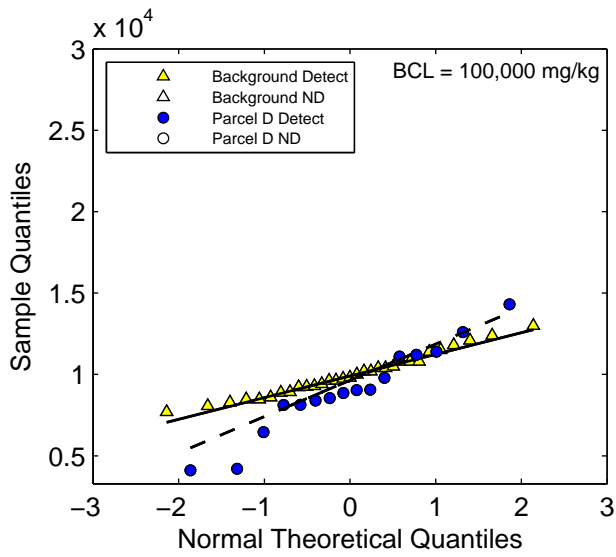
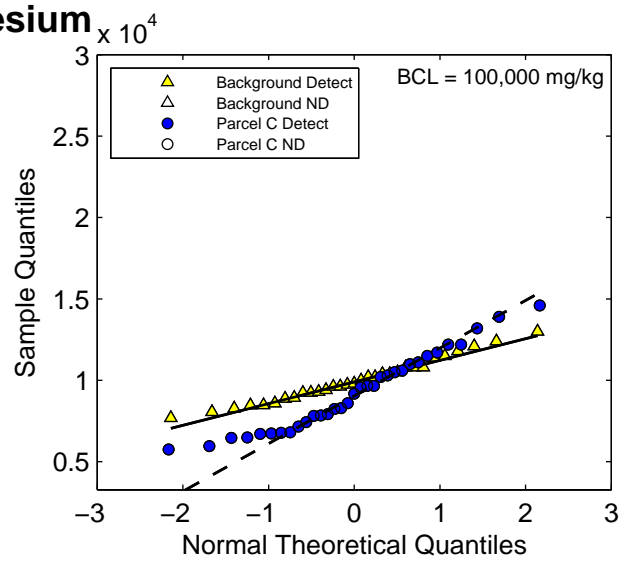
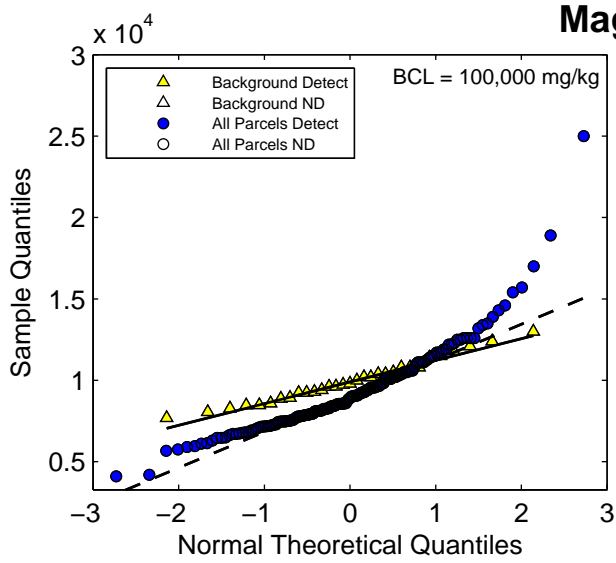


Figure 2-14B. Lognormal Q-Q Plots
Magnesium

DRAFT

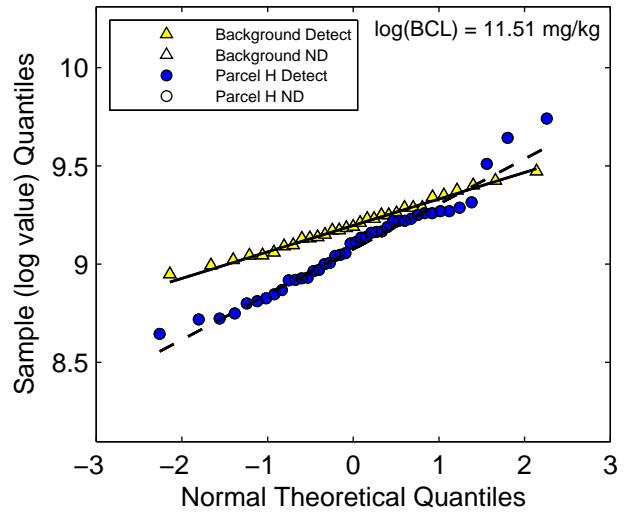
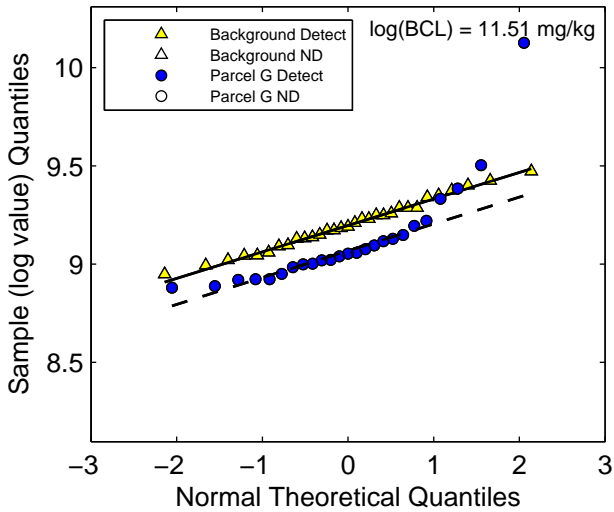
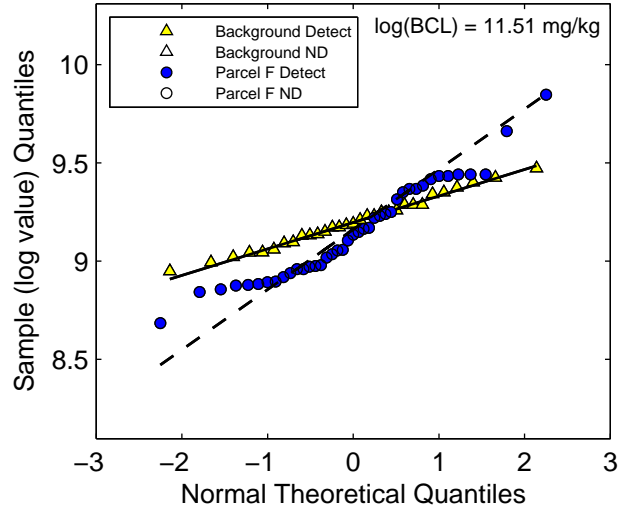
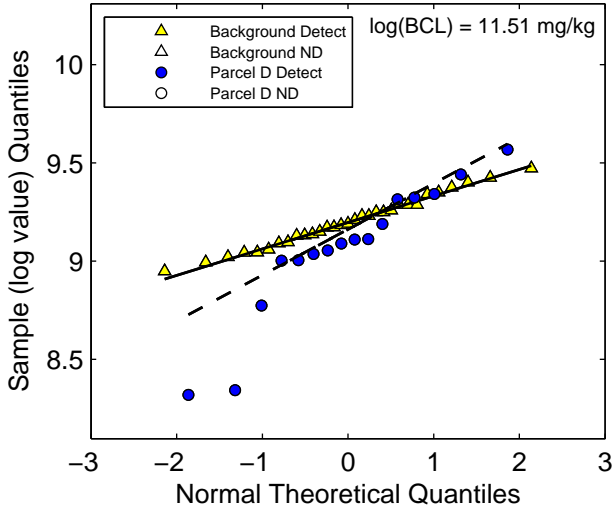
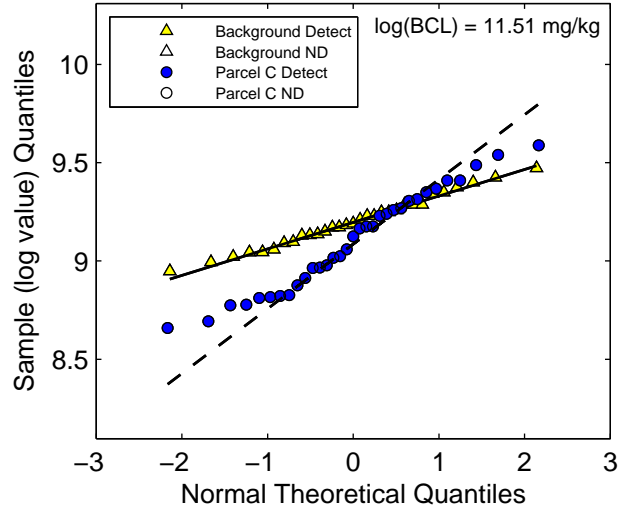
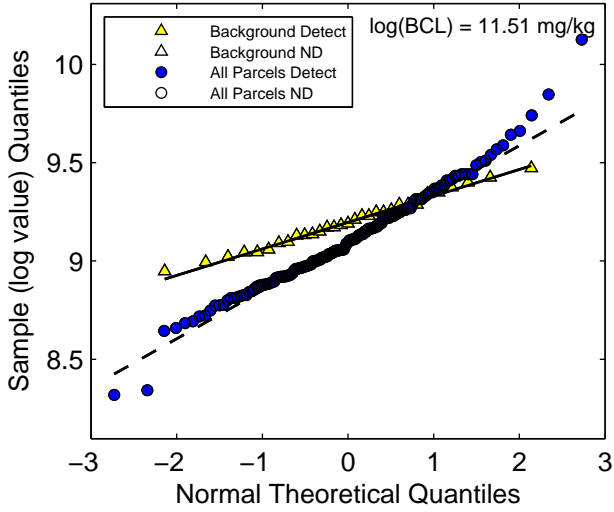


Figure 2-15A. Normal Q-Q Plots
Manganese

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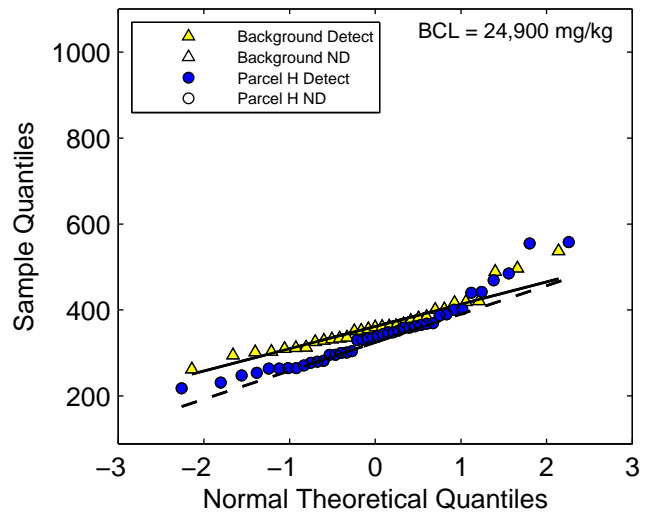
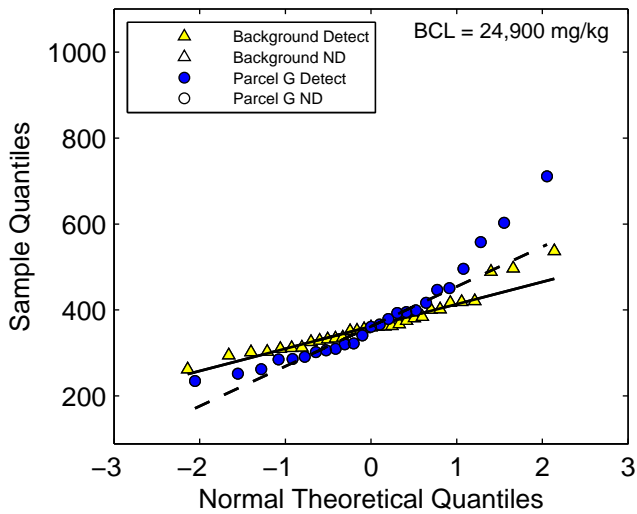
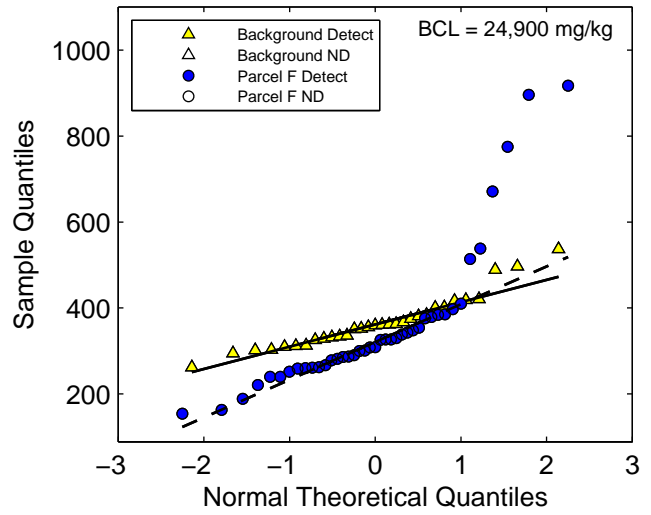
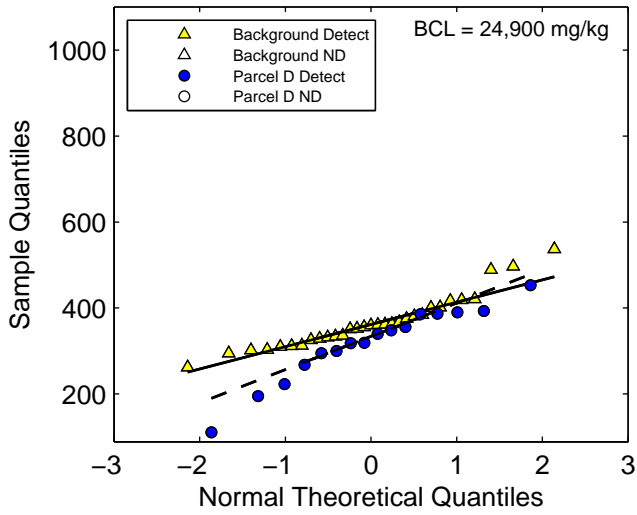
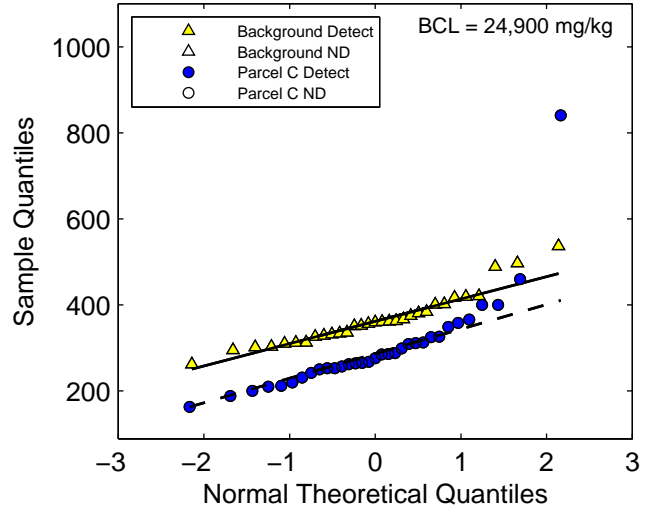
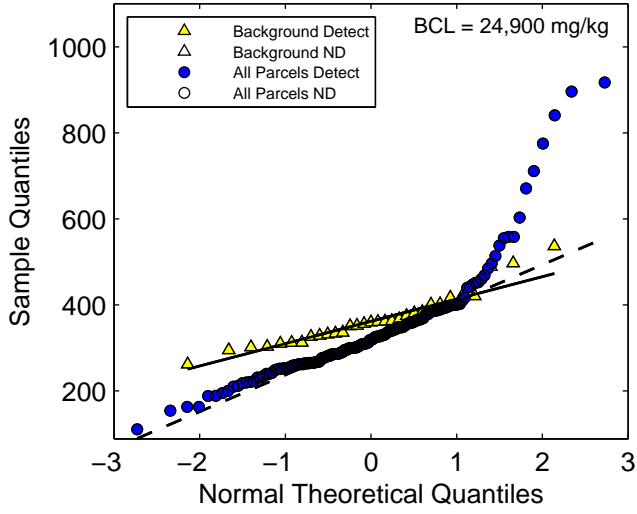


Figure 2-15B. Lognormal Q-Q Plots
Manganese

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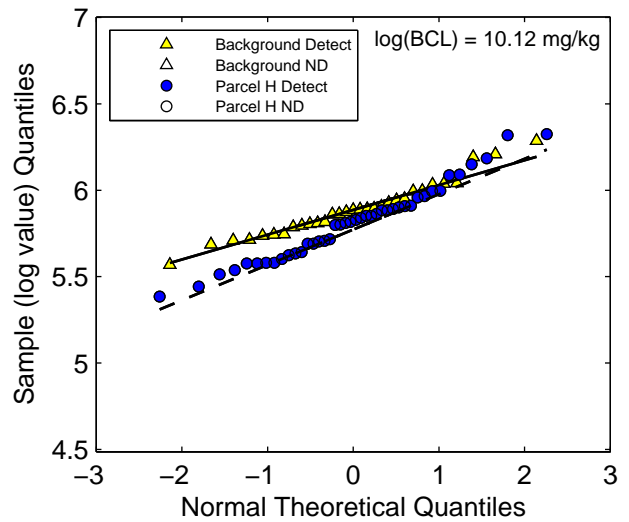
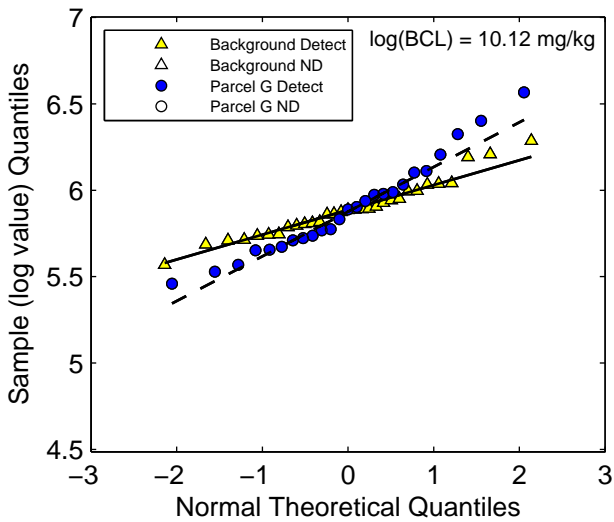
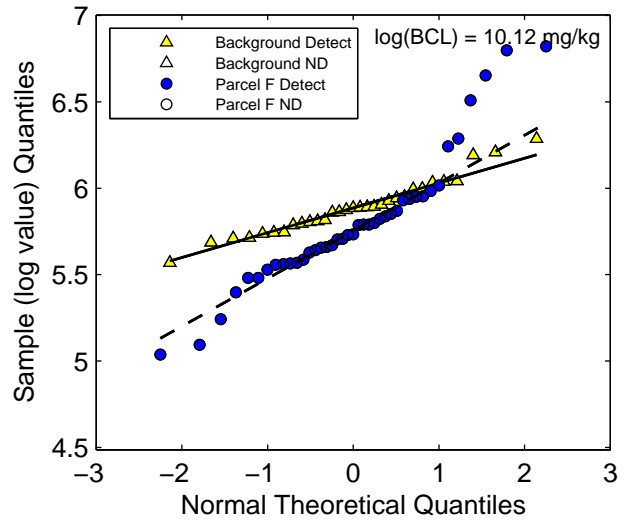
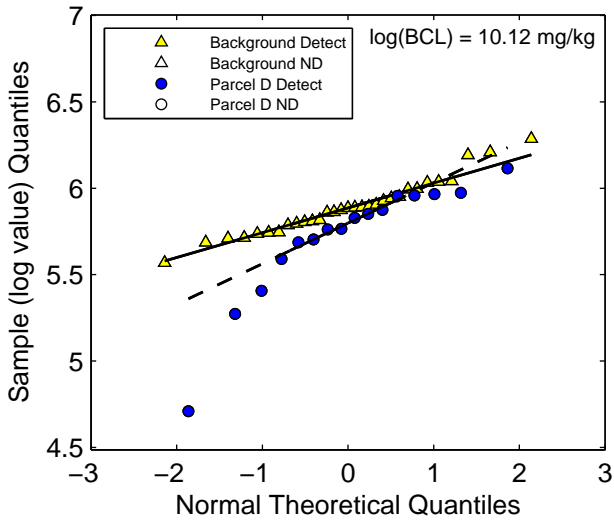
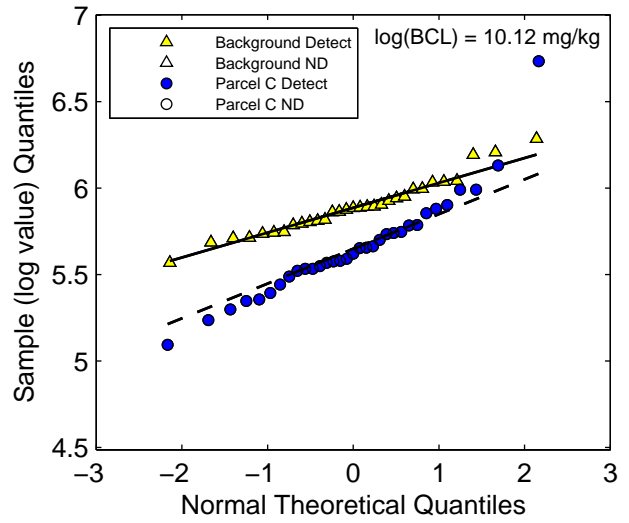
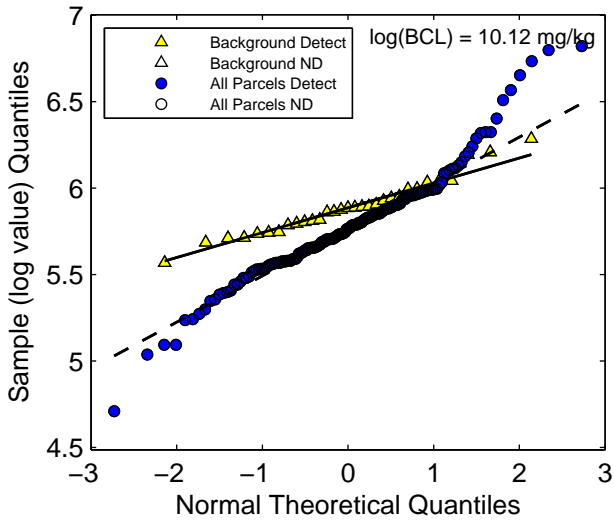


Figure 2-16A. Normal Q-Q Plots
Mercury

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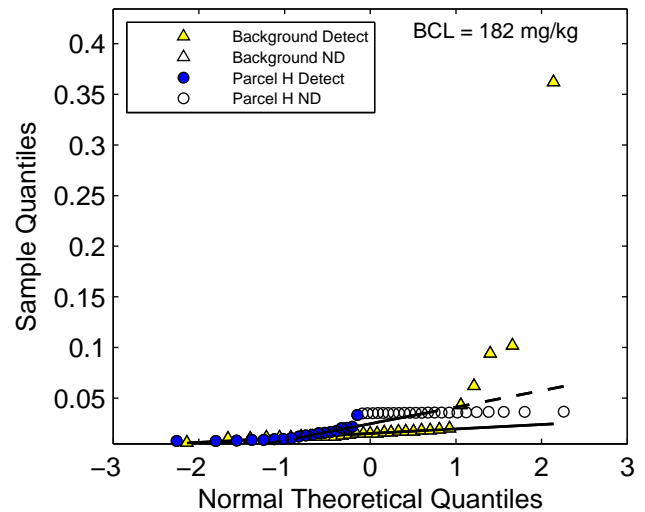
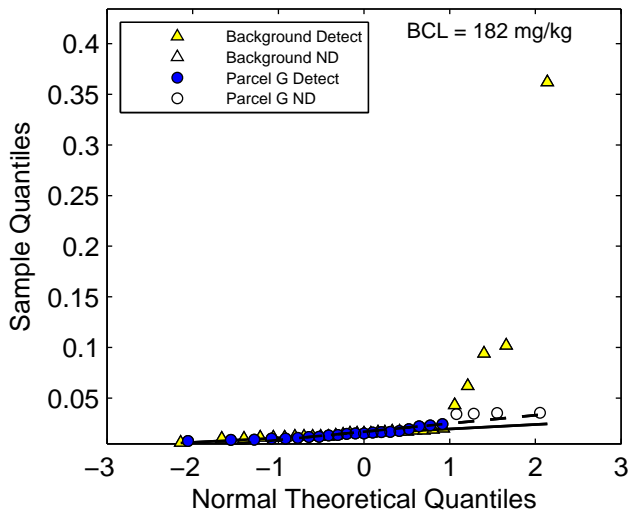
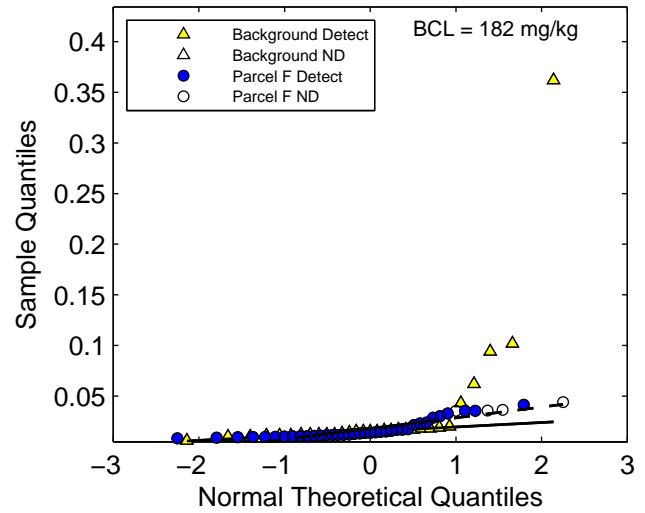
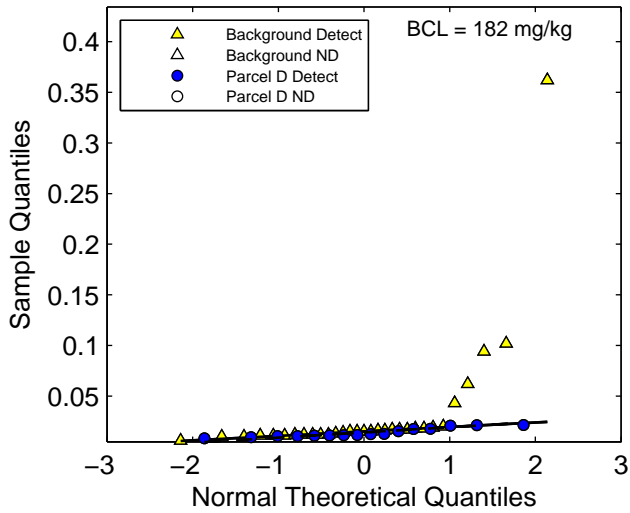
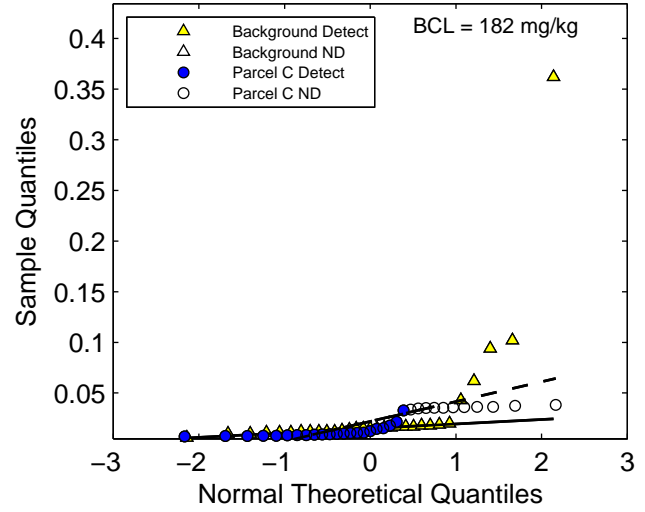
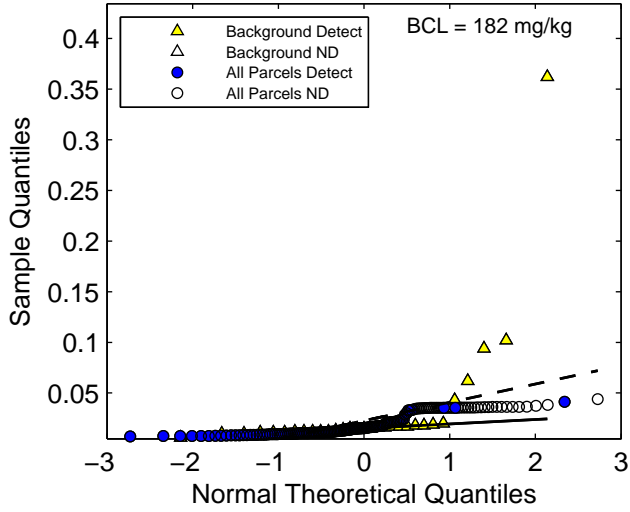


Figure 2-16B. Lognormal Q-Q Plots
Mercury

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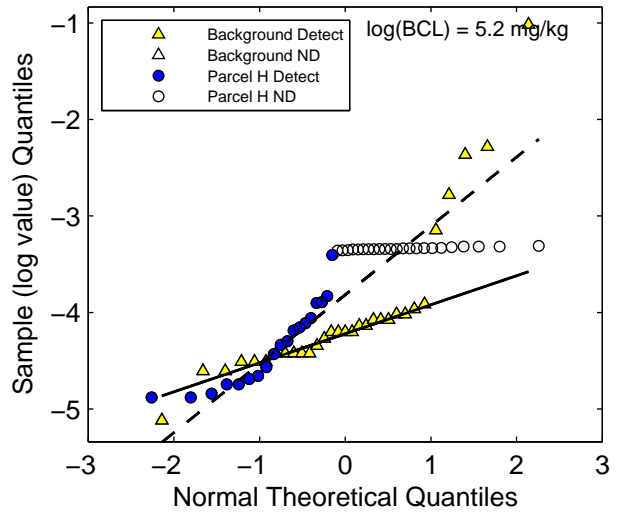
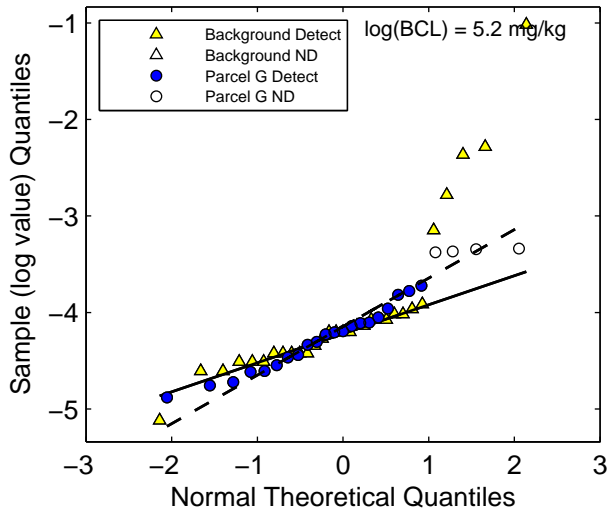
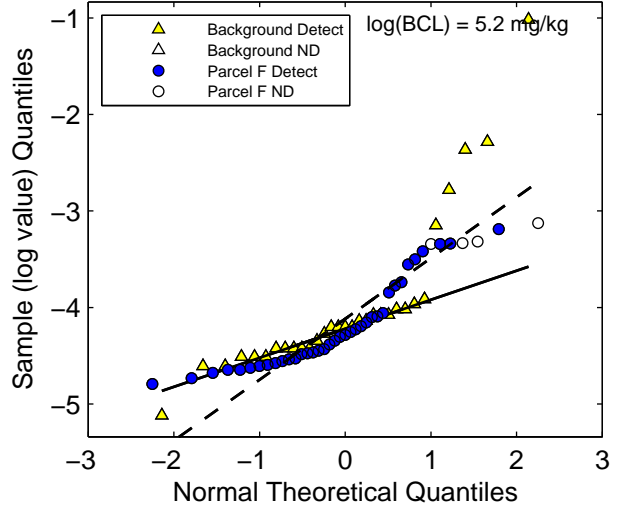
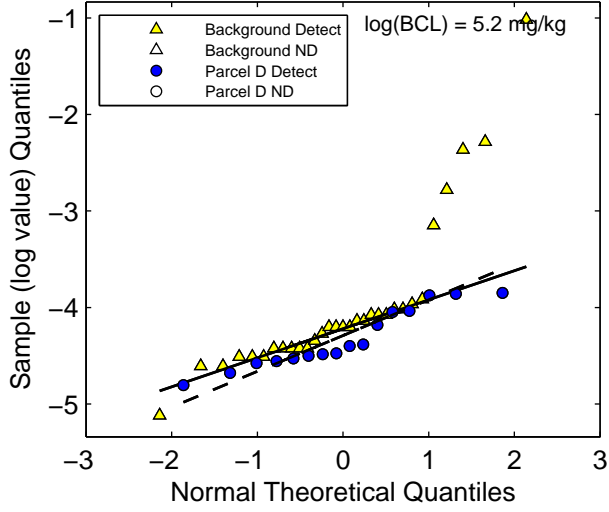
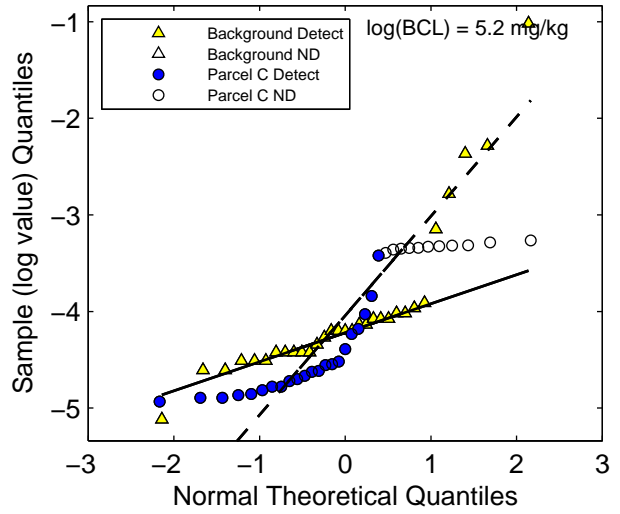
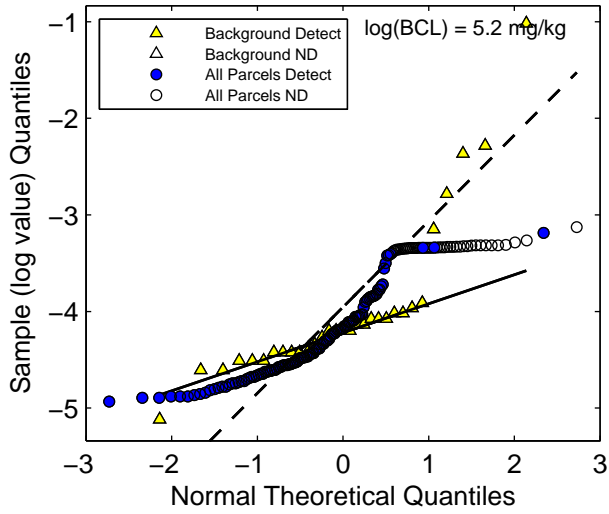


Figure 2-17A. Normal Q-Q Plots
Molybdenum

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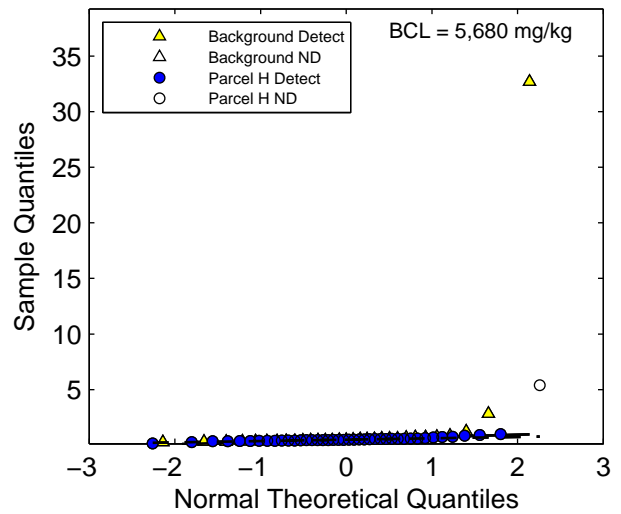
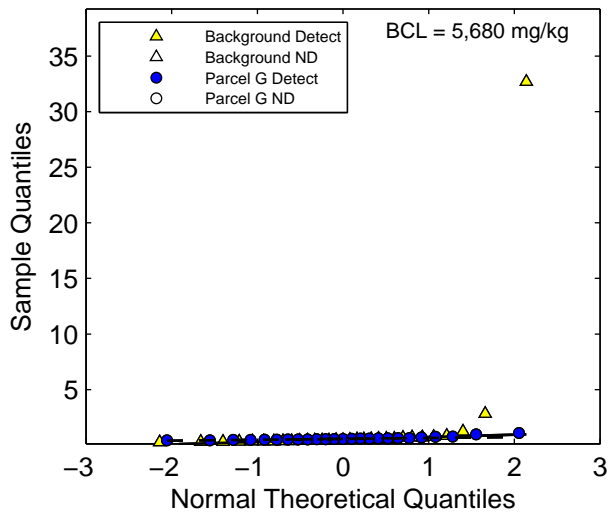
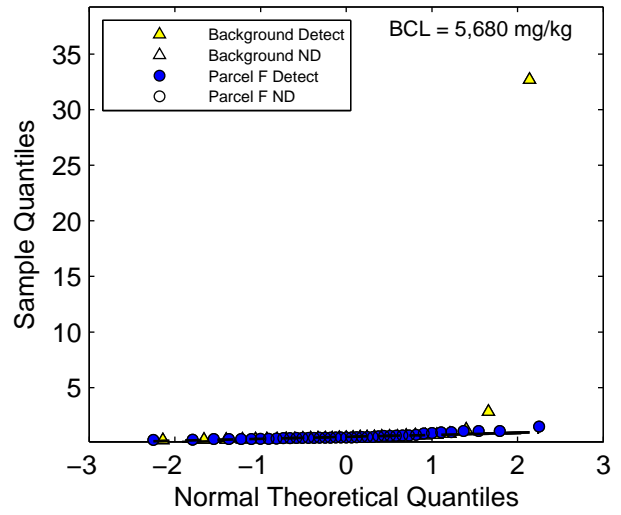
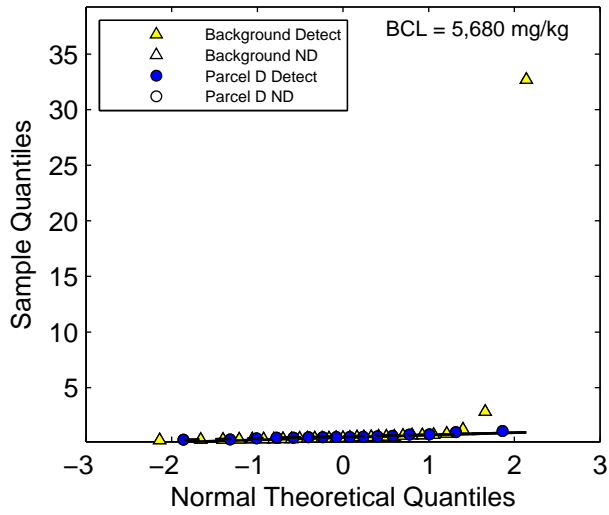
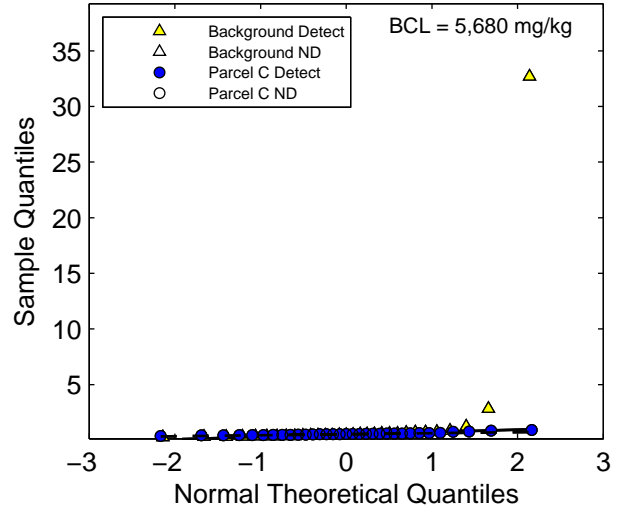
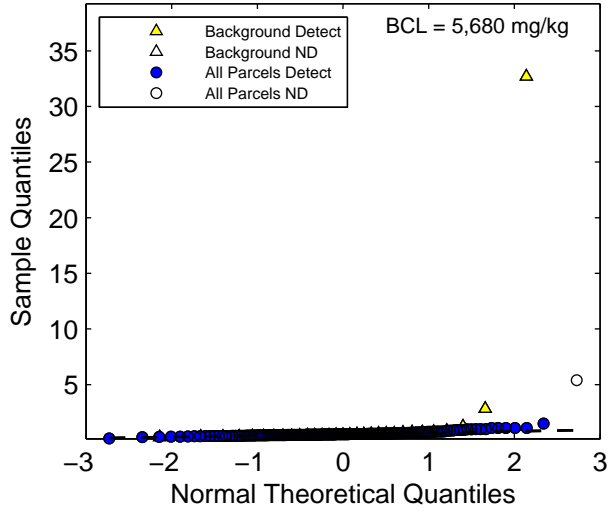


Figure 2-17B. Lognormal Q-Q Plots
Molybdenum

DRAFT

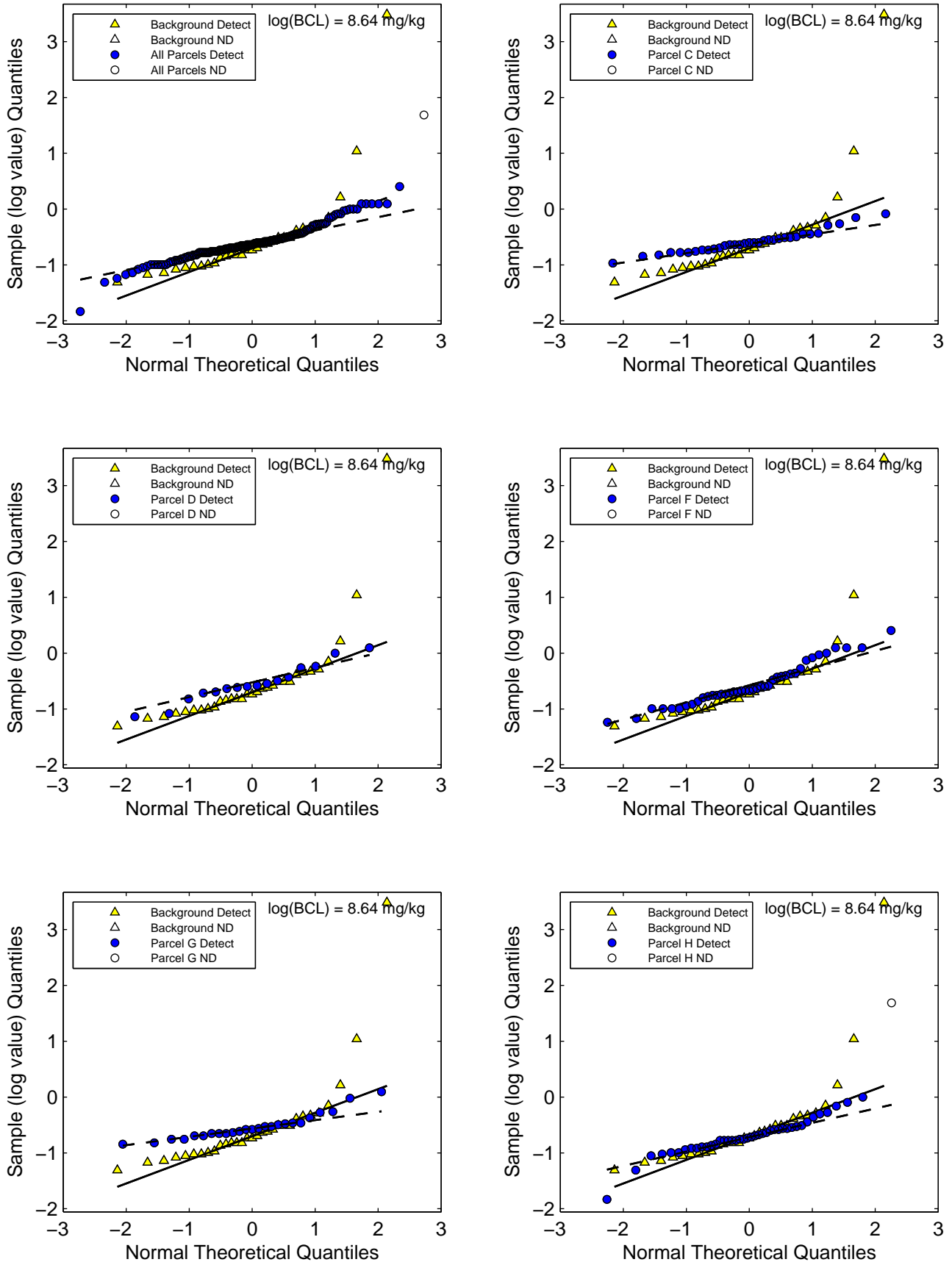


Figure 2-18A. Normal Q-Q Plots

DRAFT

Nickel

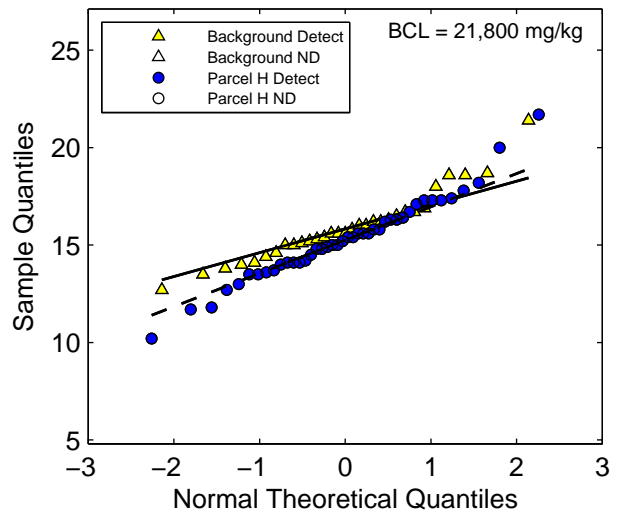
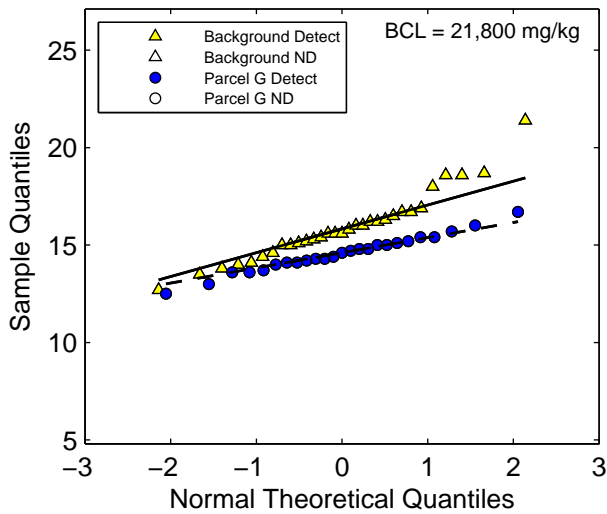
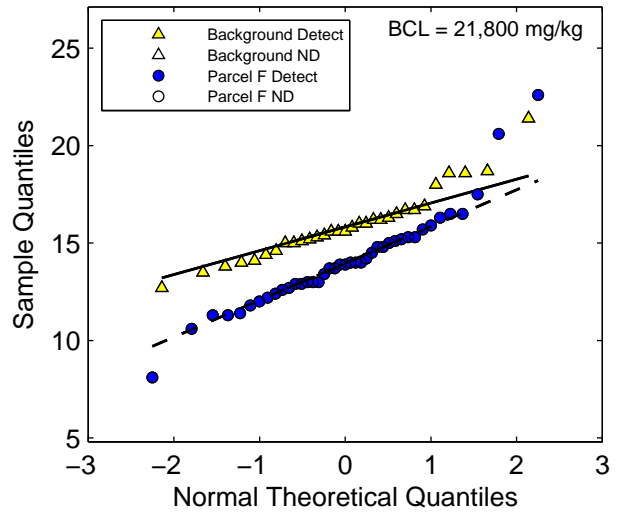
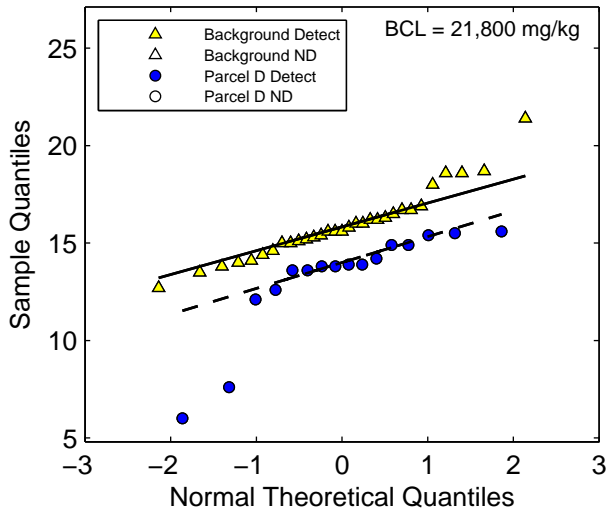
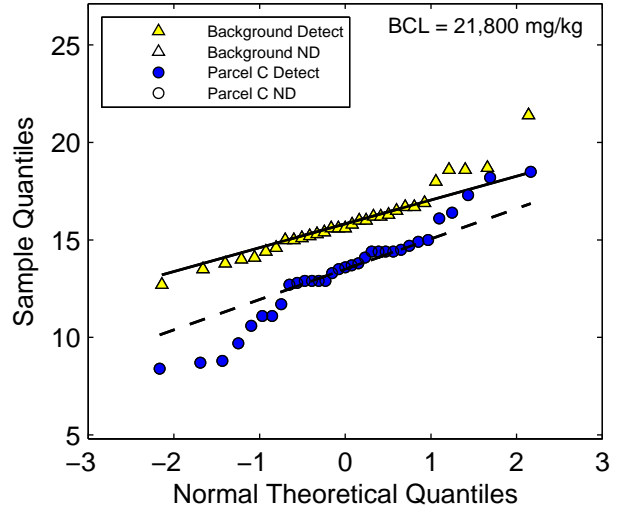
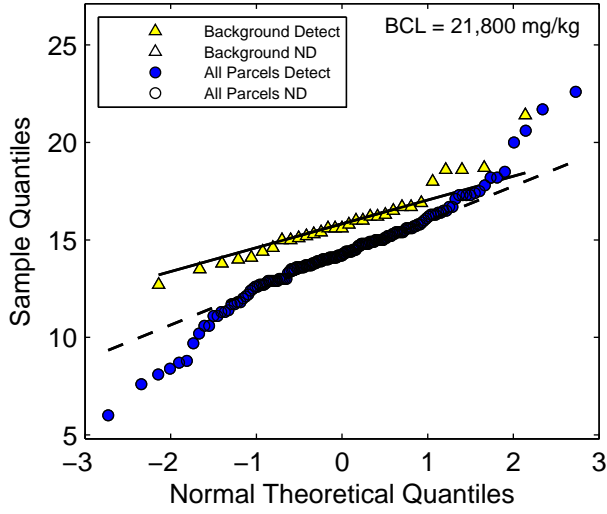


Figure 2-18B. Lognormal Q-Q Plots
Nickel

DRAFT

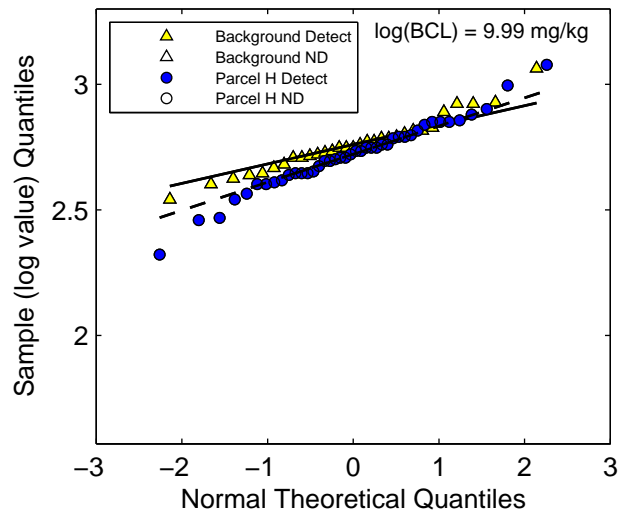
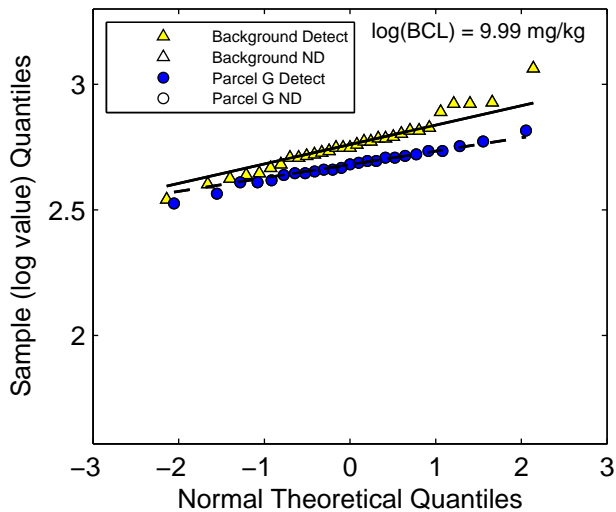
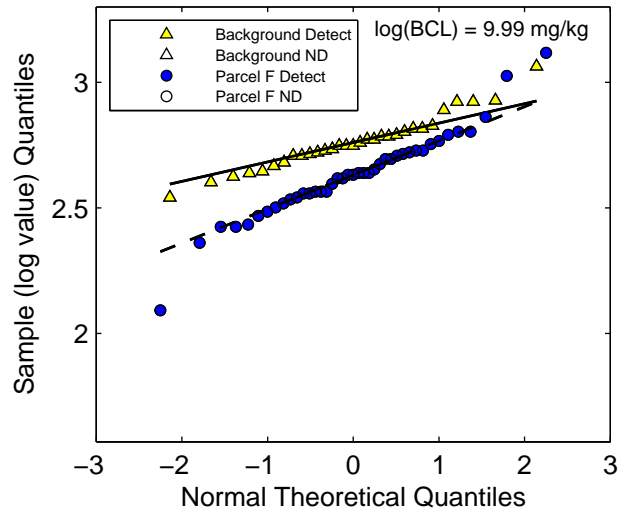
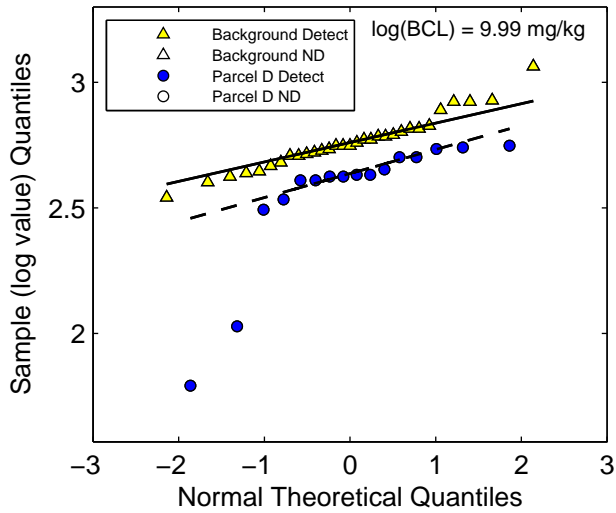
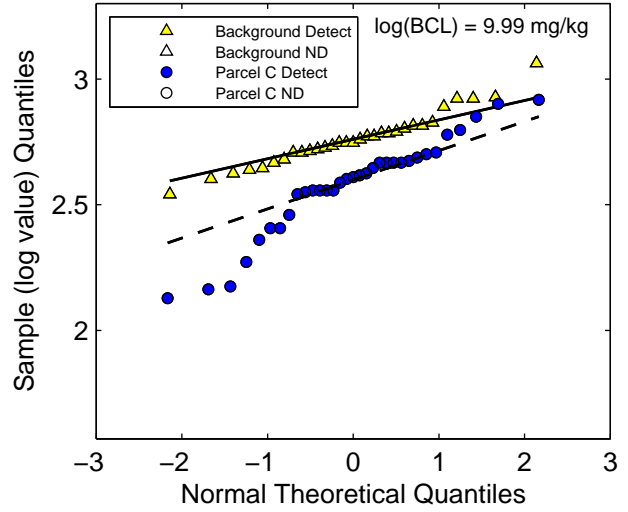
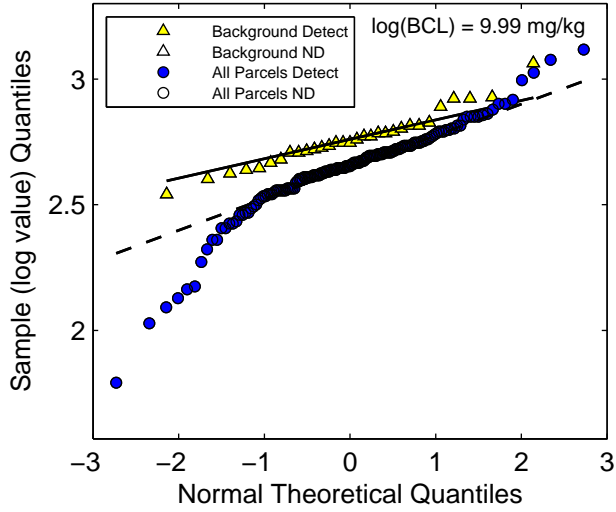


Figure 2-19A. Normal Q-Q Plots
Platinum

DRAFT

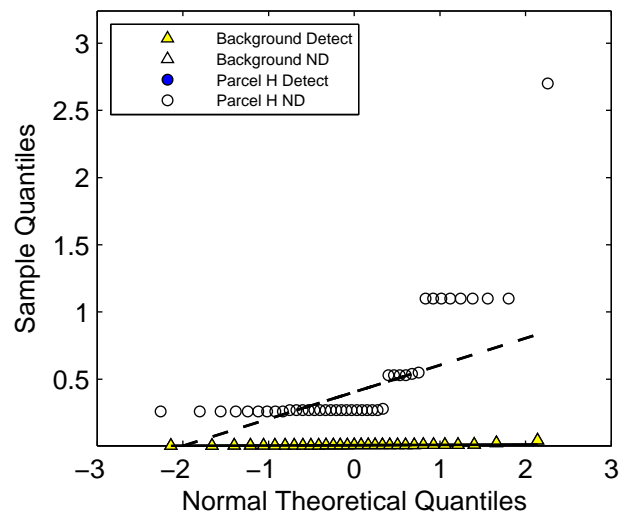
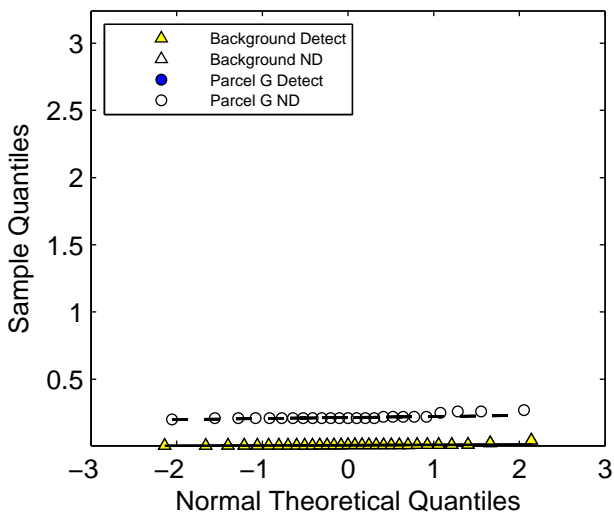
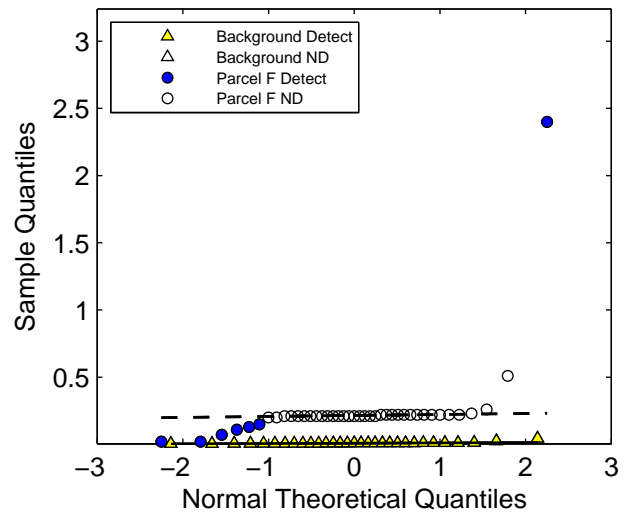
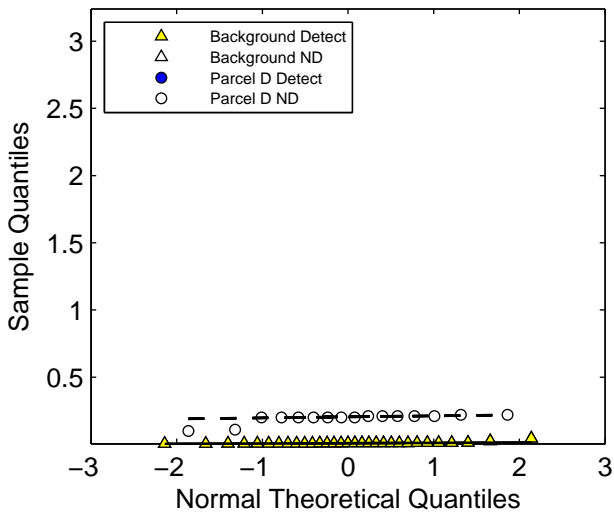
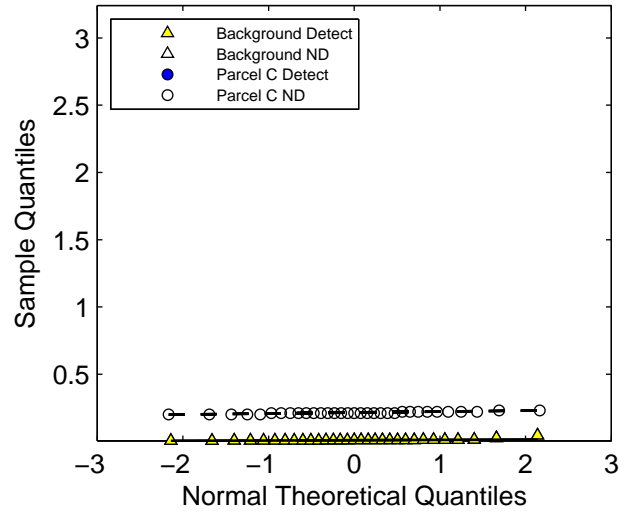
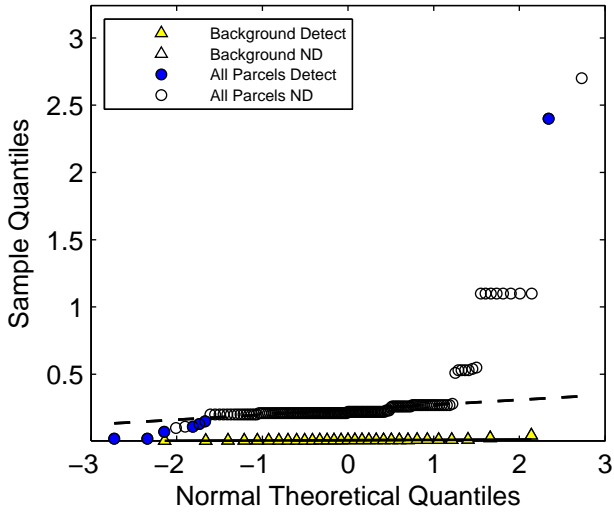


Figure 2-19B. Lognormal Q-Q Plots
Platinum

DRAFT

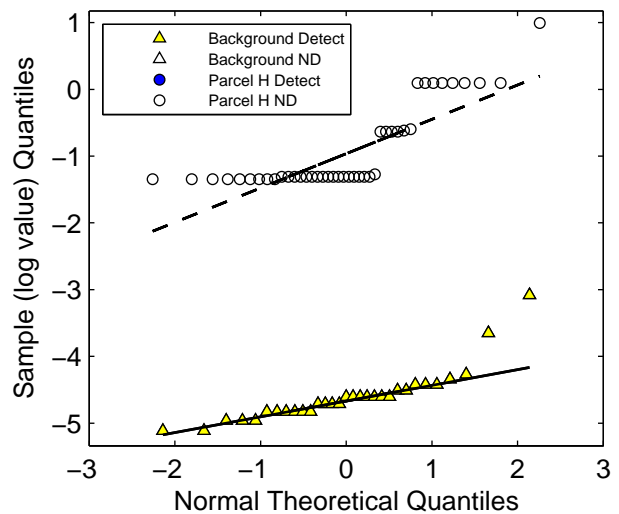
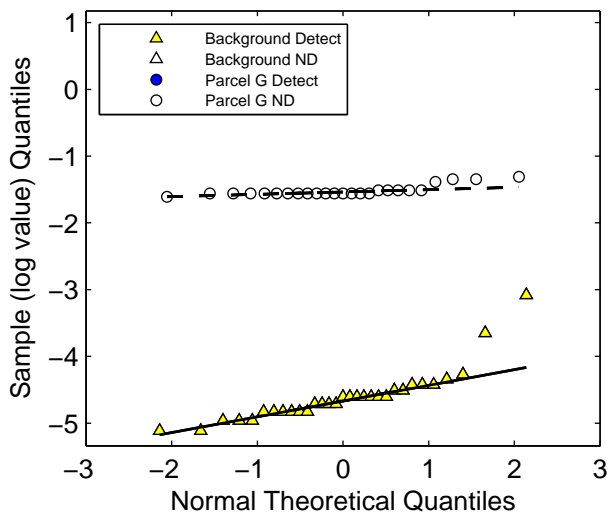
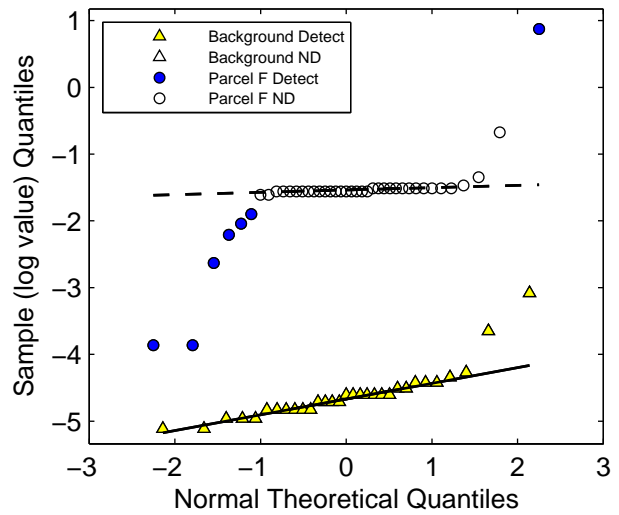
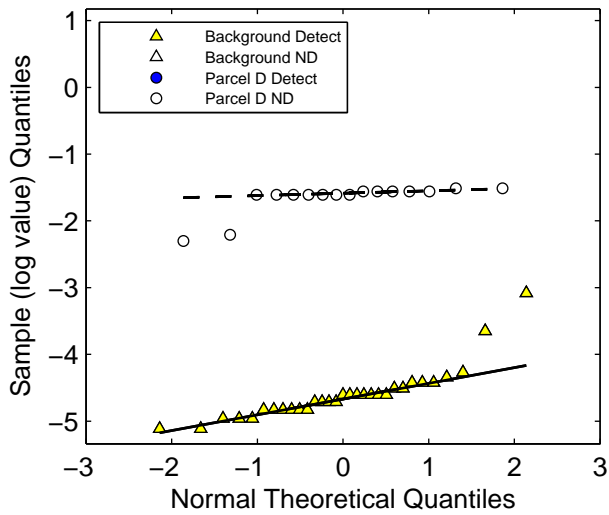
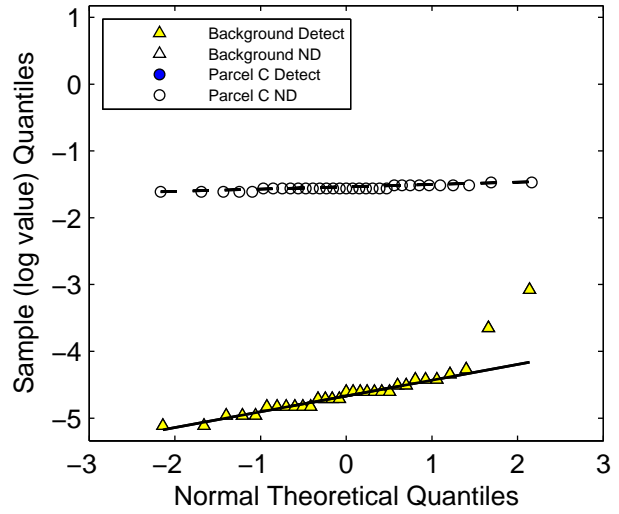
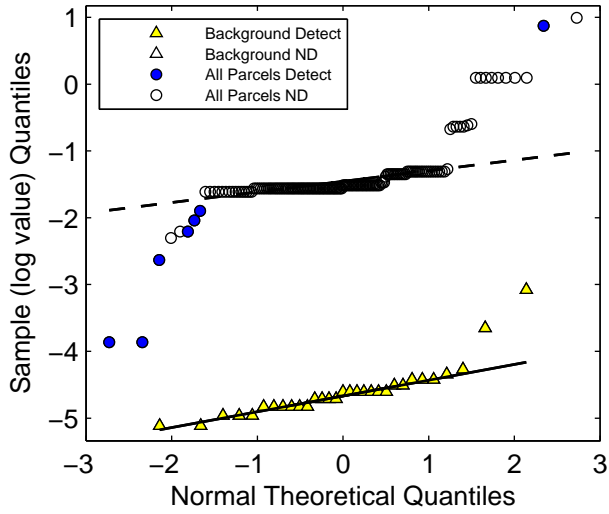


Figure 2-20A. Normal Q-Q Plots
Potassium

DRAFT

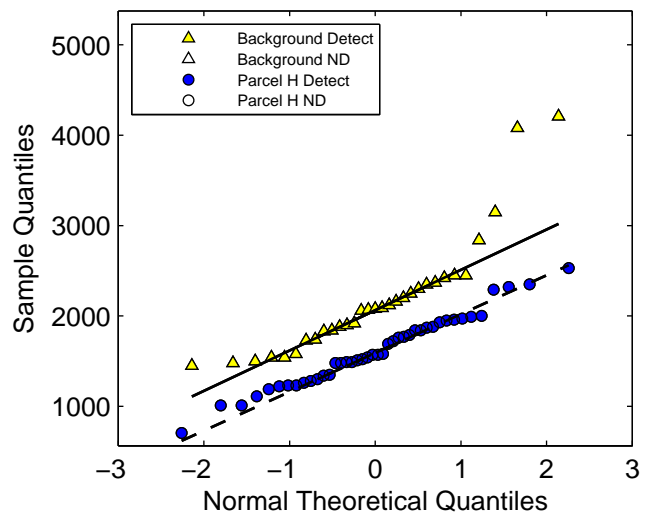
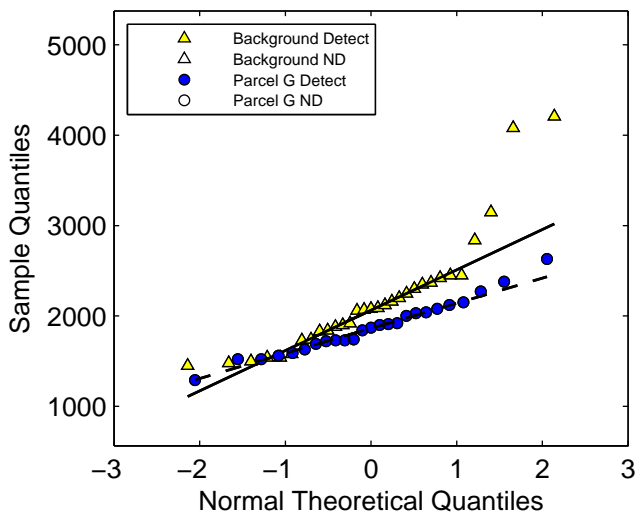
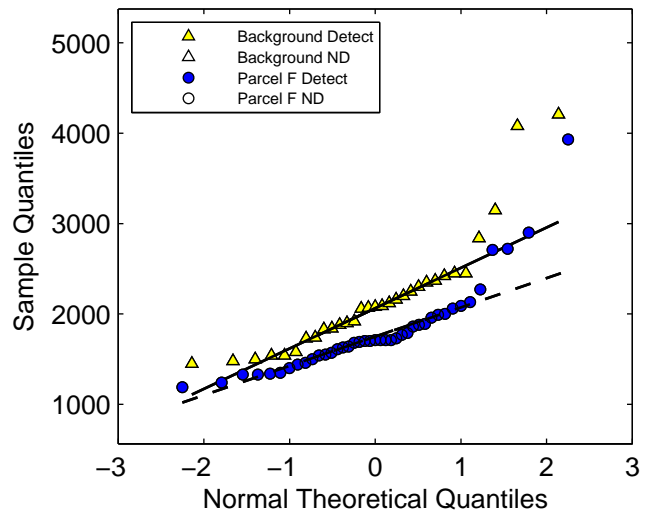
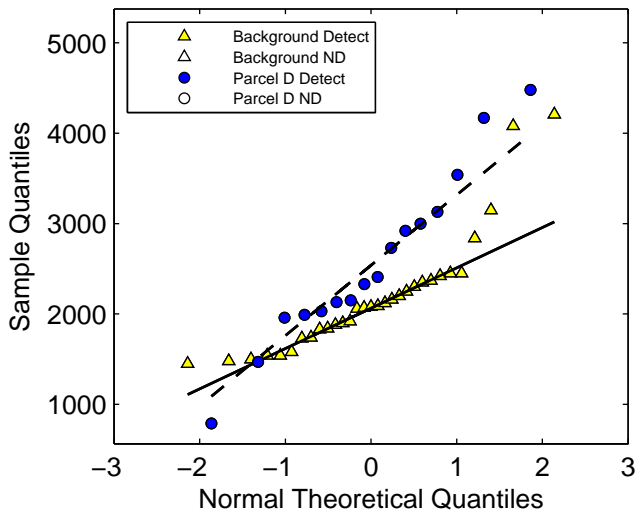
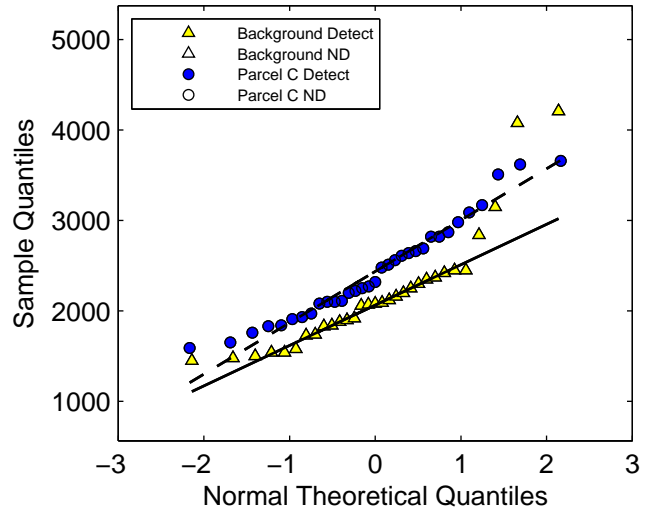
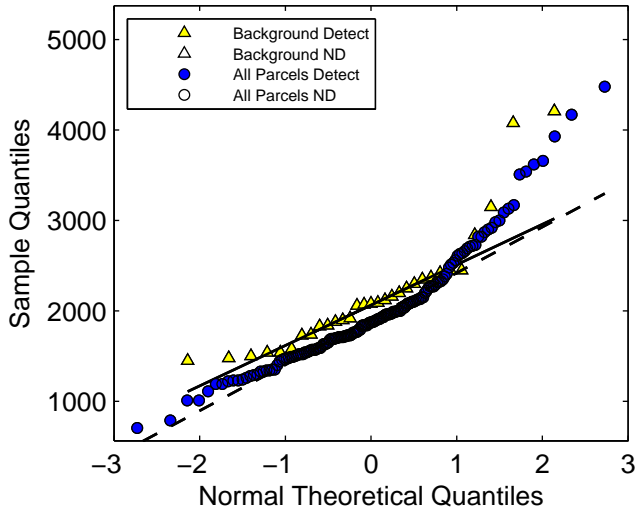


Figure 2-20B. Lognormal Q-Q Plots
Potassium

DRAFT

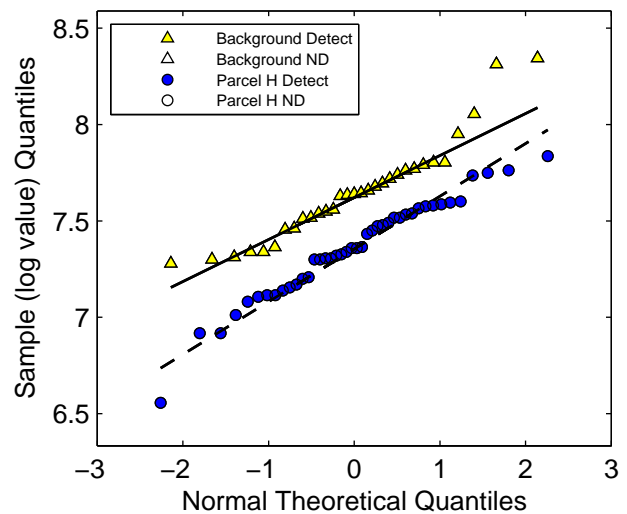
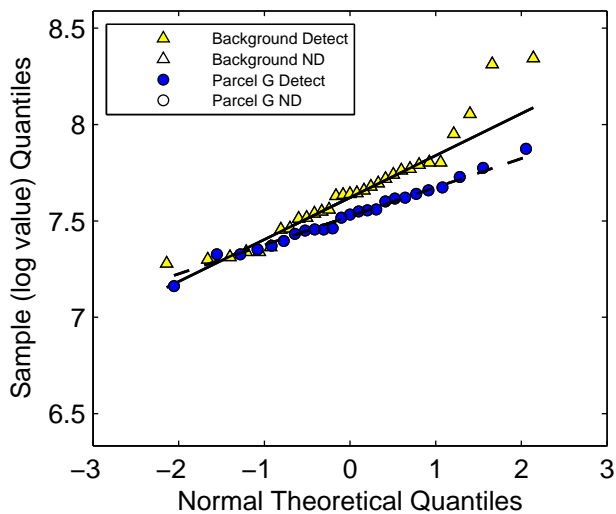
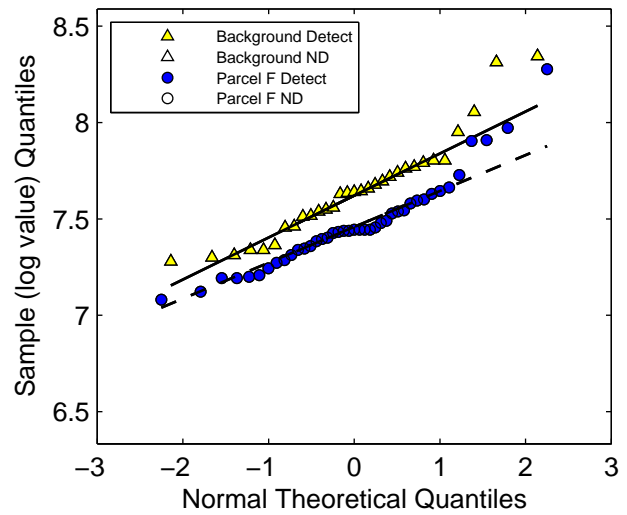
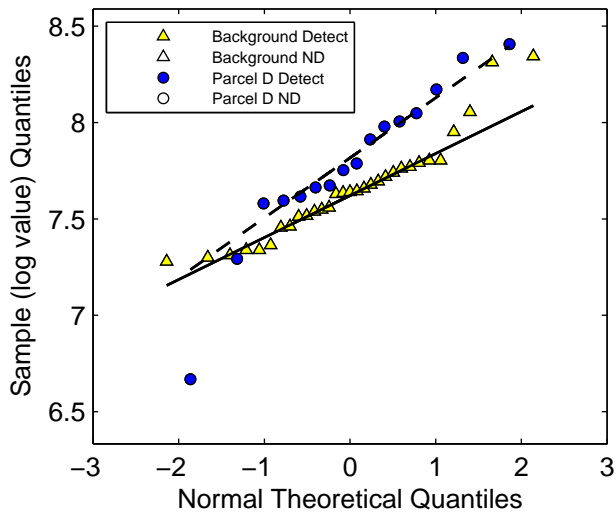
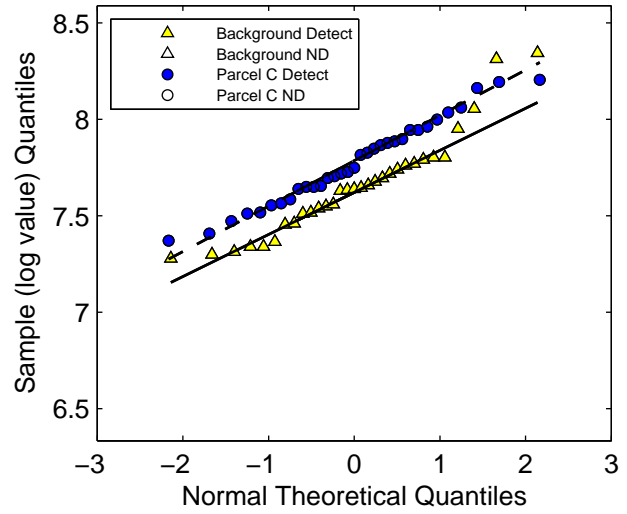
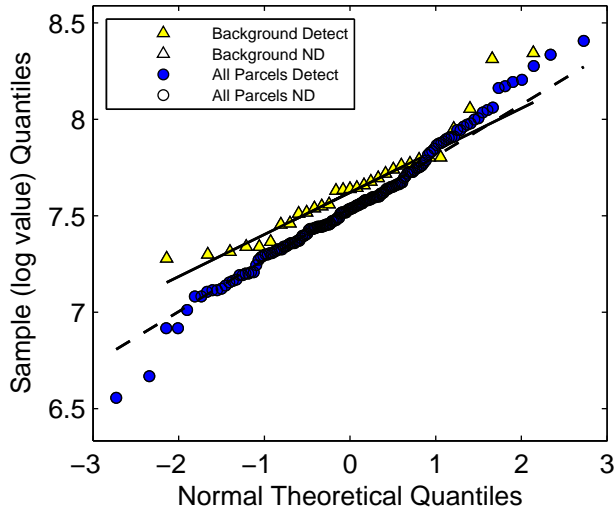


Figure 2-21A. Normal Q-Q Plots
Selenium

DRAFT

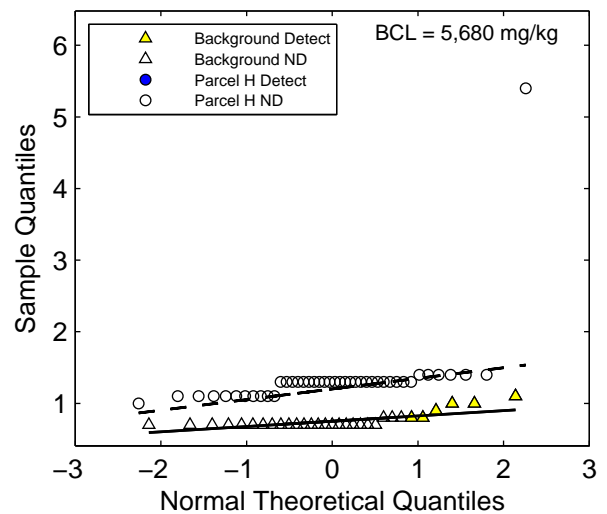
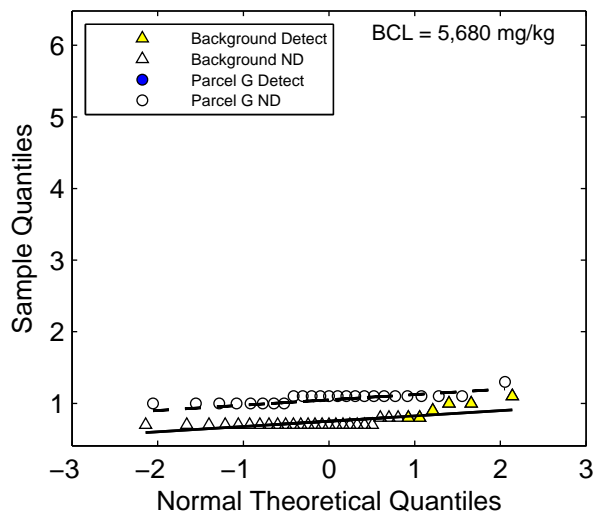
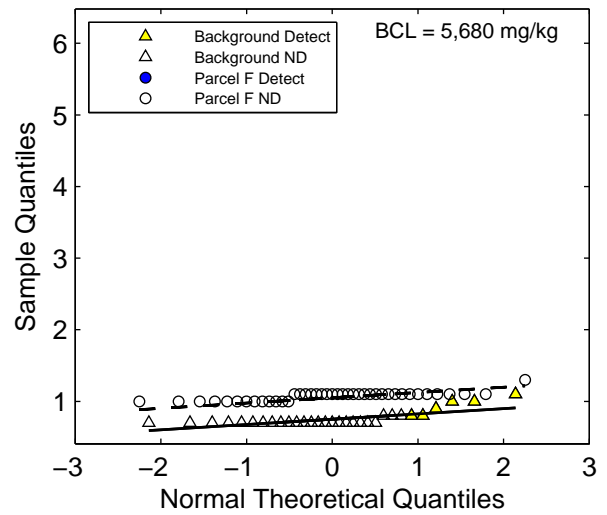
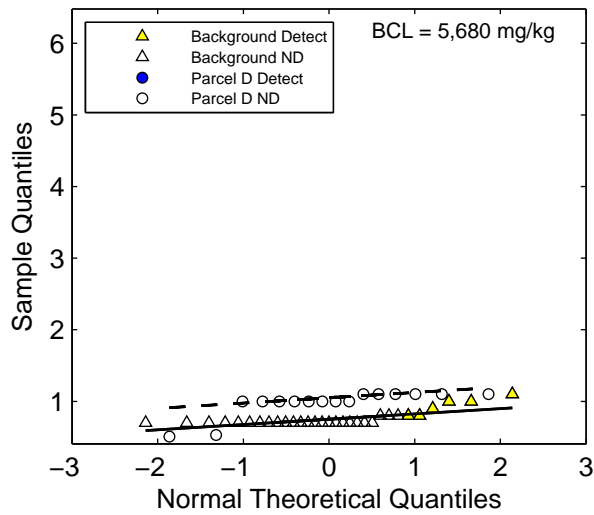
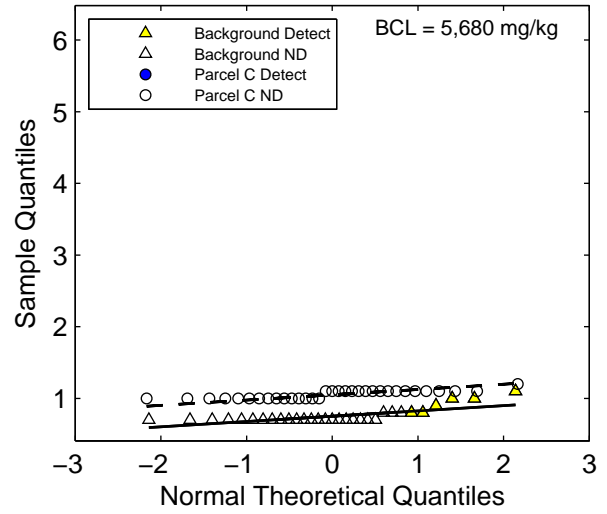
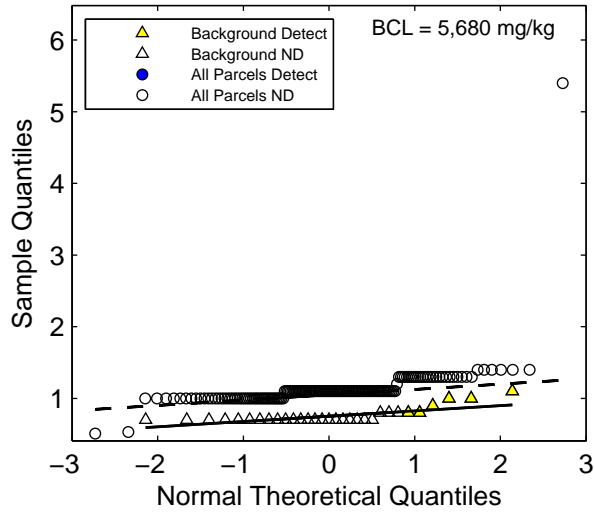


Figure 2-21B. Lognormal Q-Q Plots
Selenium

DRAFT

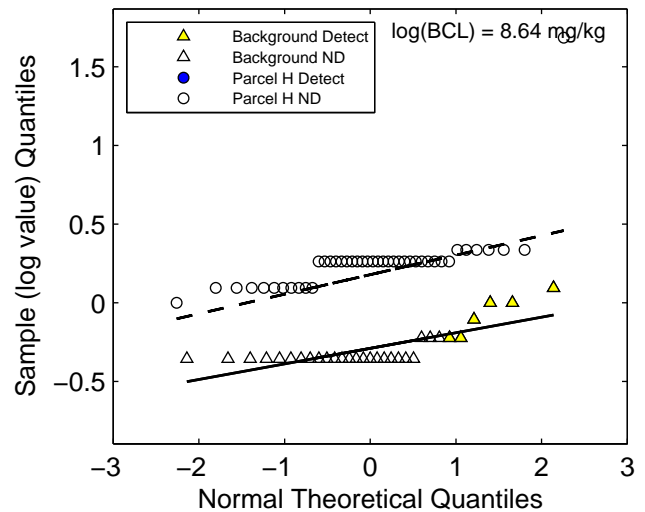
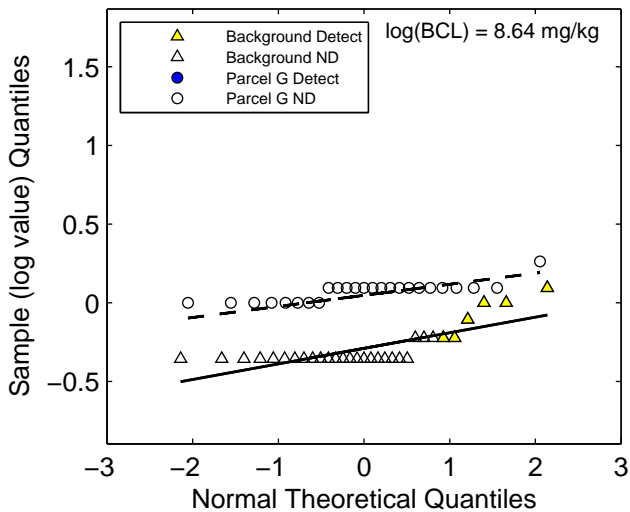
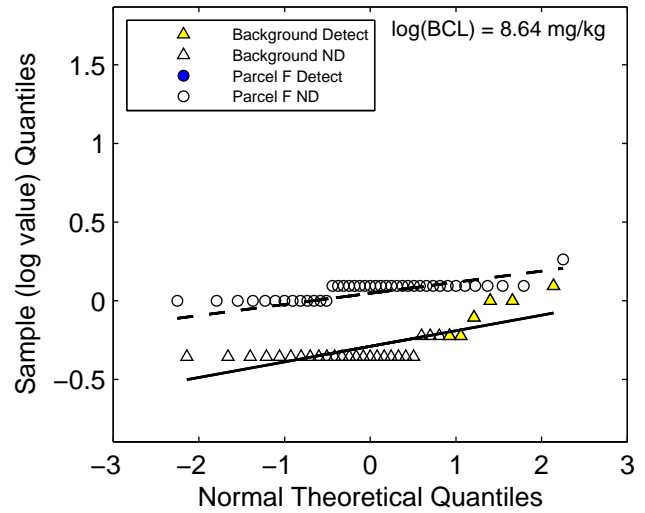
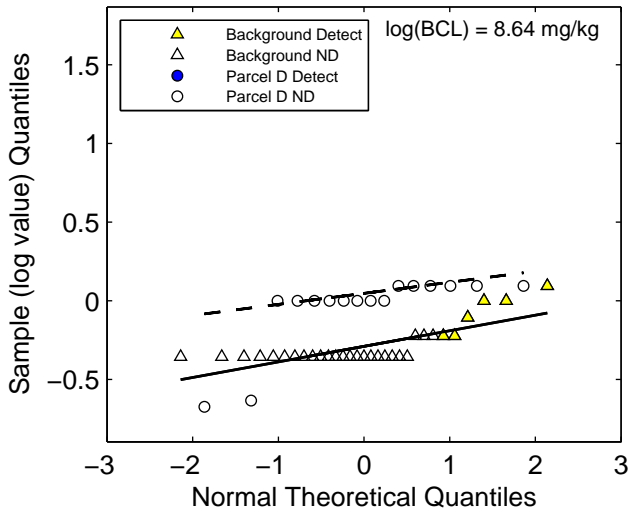
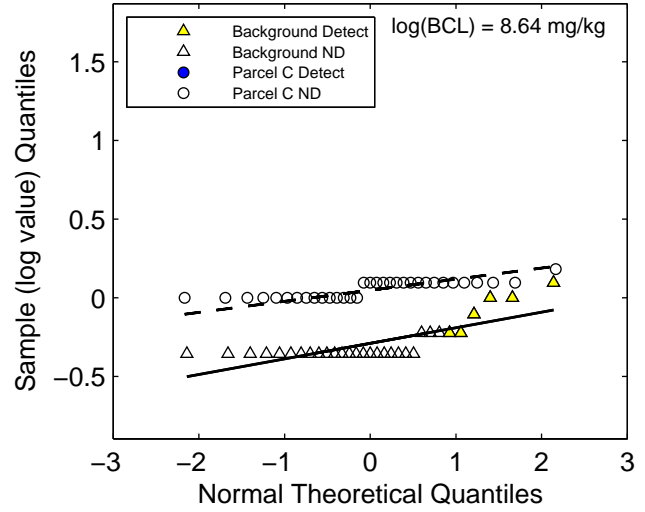
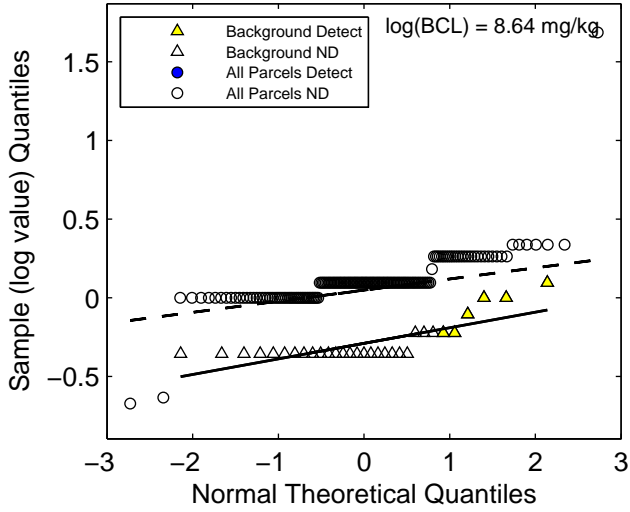


Figure 2-22A. Normal Q-Q Plots
Silver

DRAFT

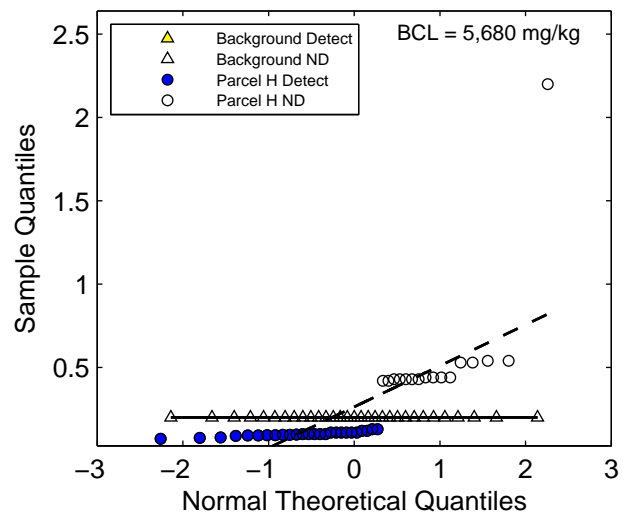
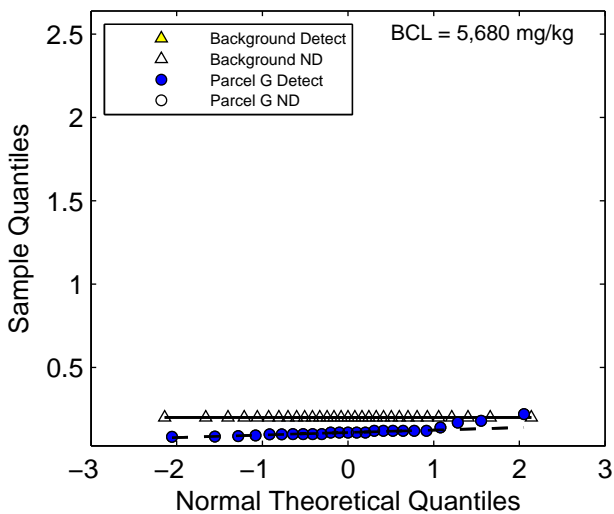
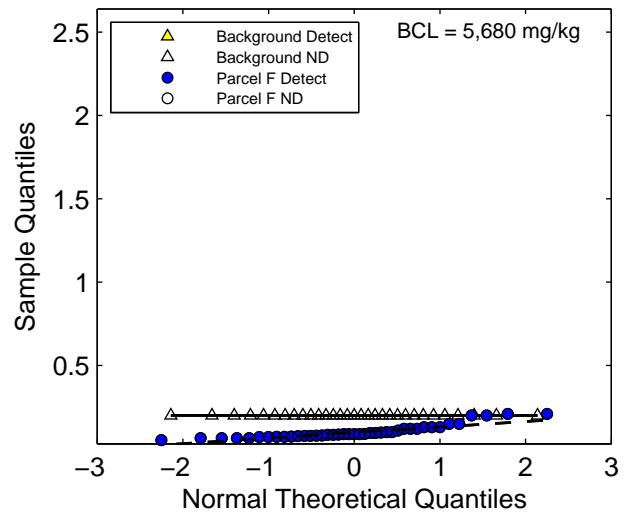
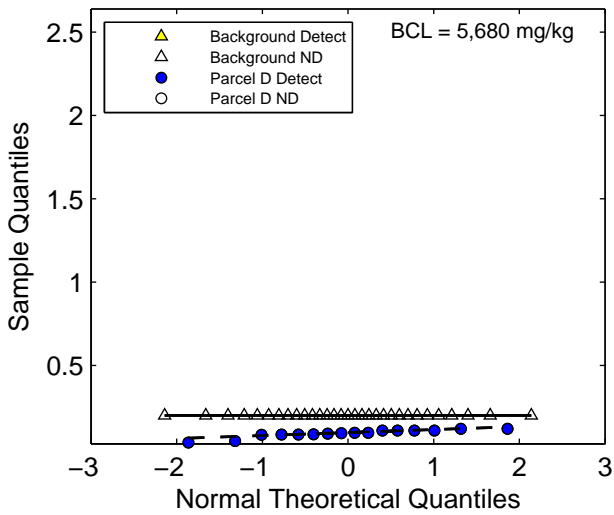
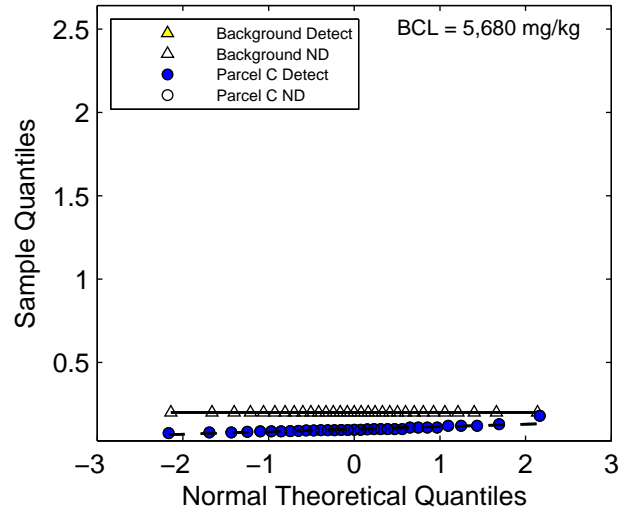
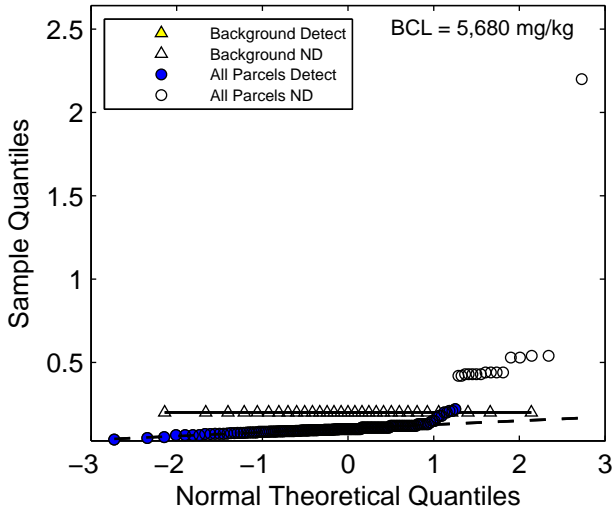


Figure 2-22B. Lognormal Q-Q Plots
Silver

DRAFT

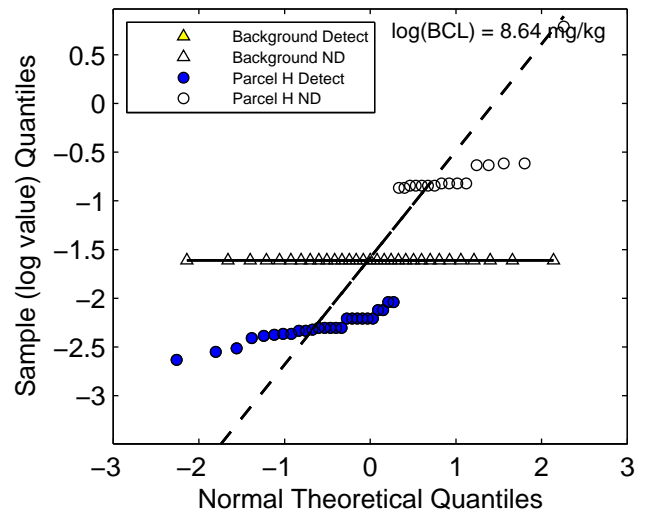
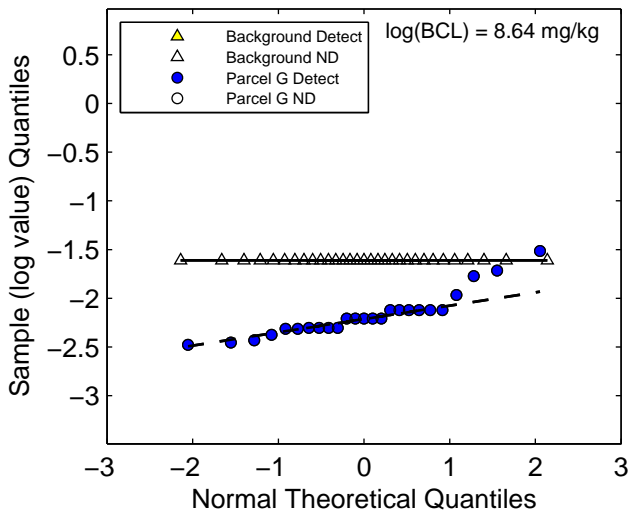
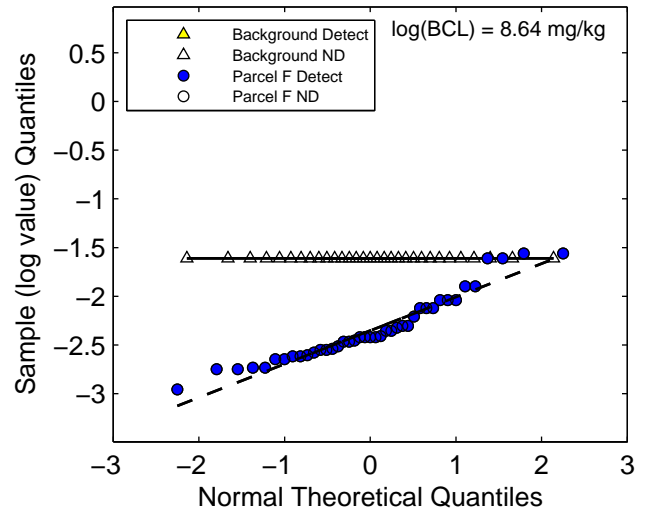
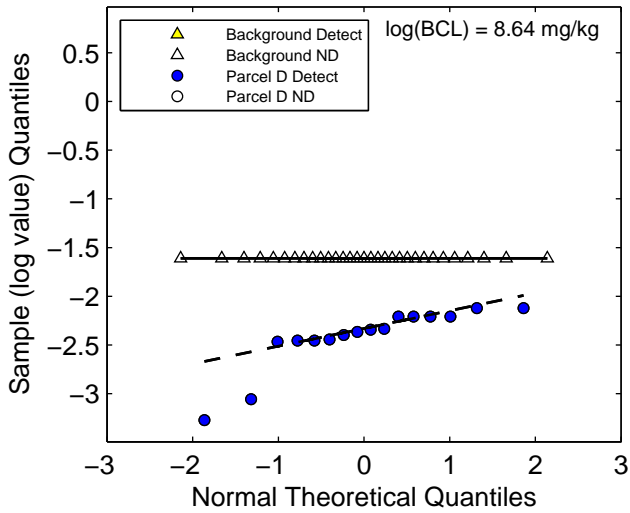
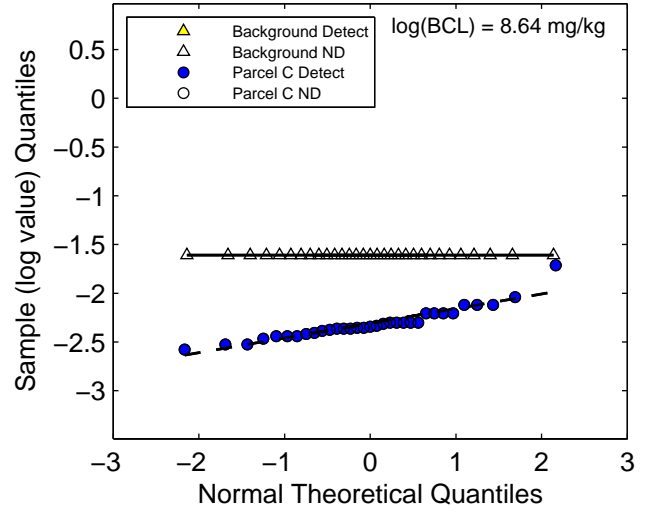
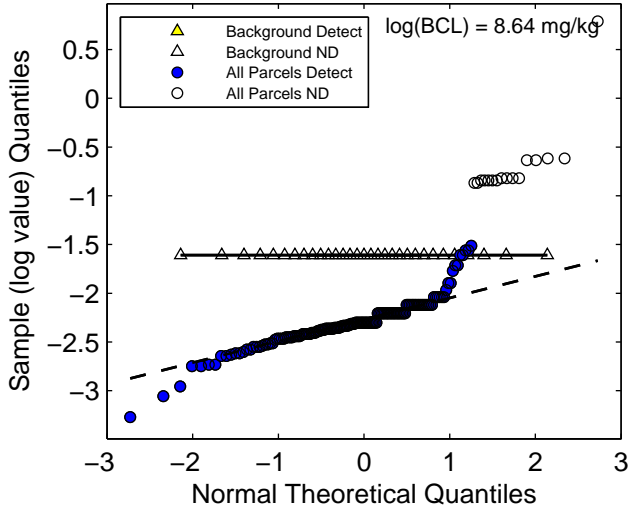


Figure 2-23A. Normal Q-Q Plots
Sodium

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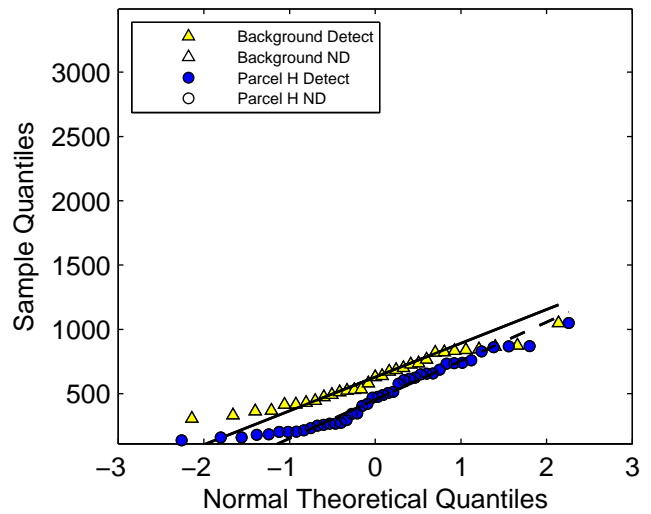
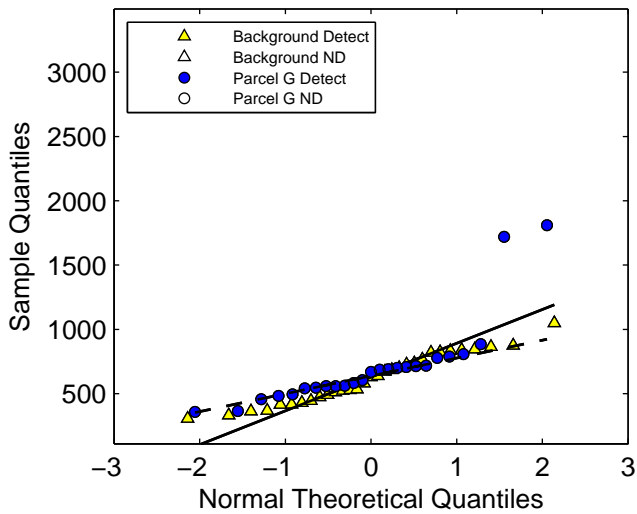
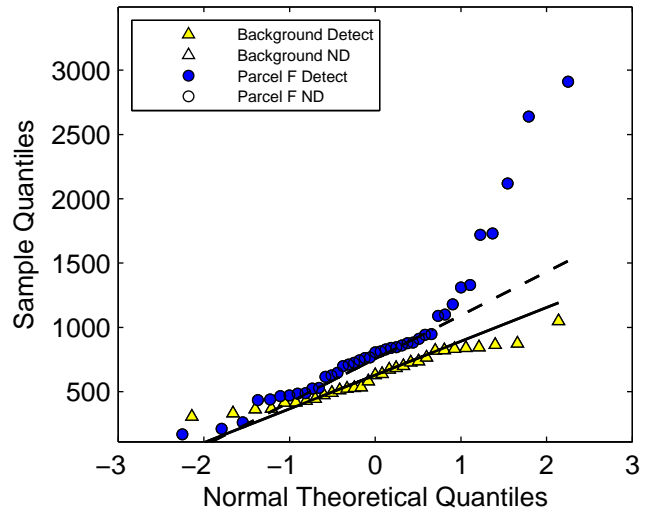
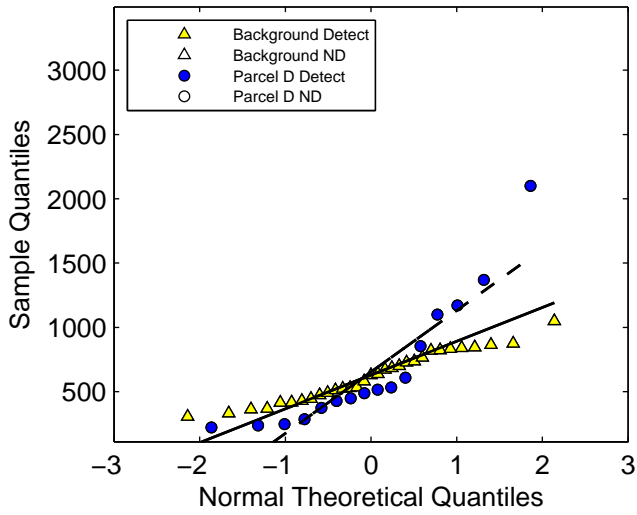
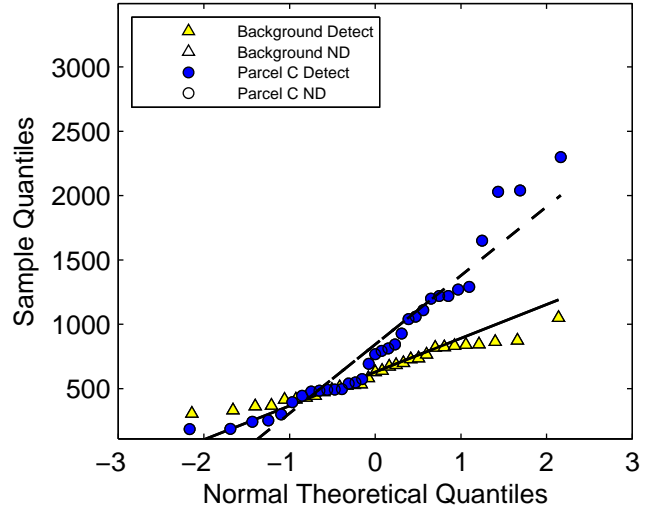
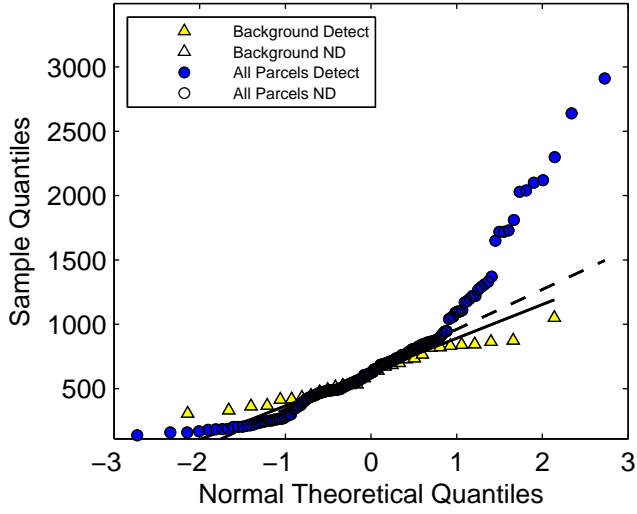


Figure 2-23B. Lognormal Q-Q Plots
Sodium

DRAFT

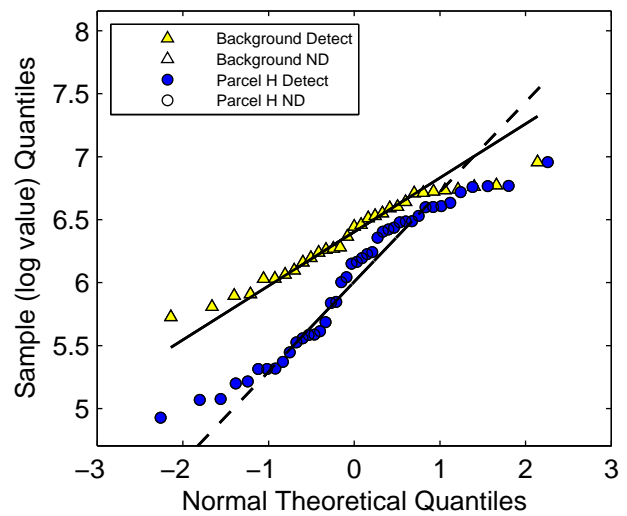
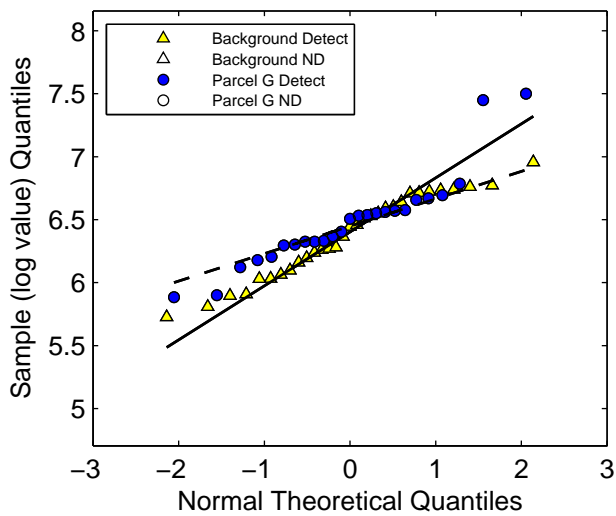
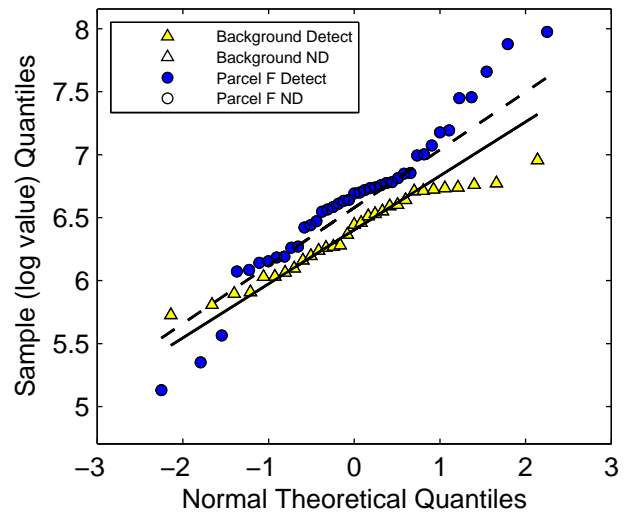
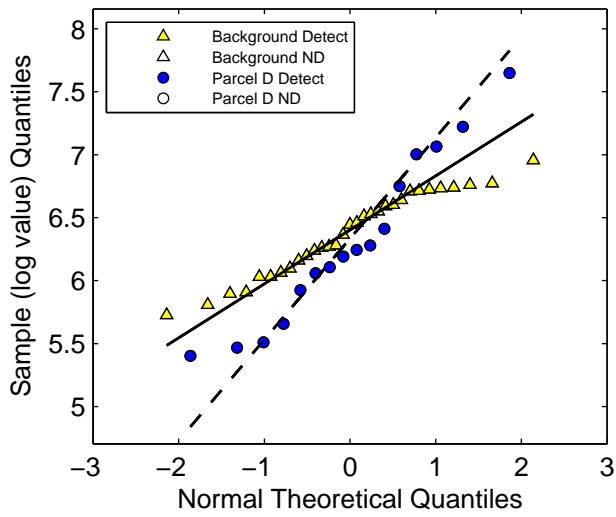
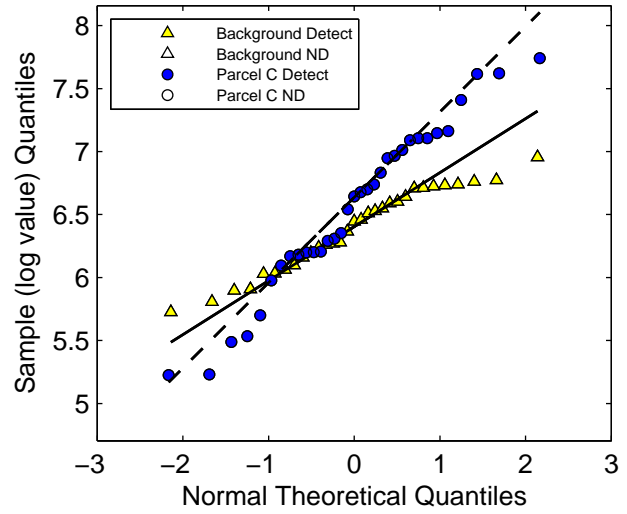
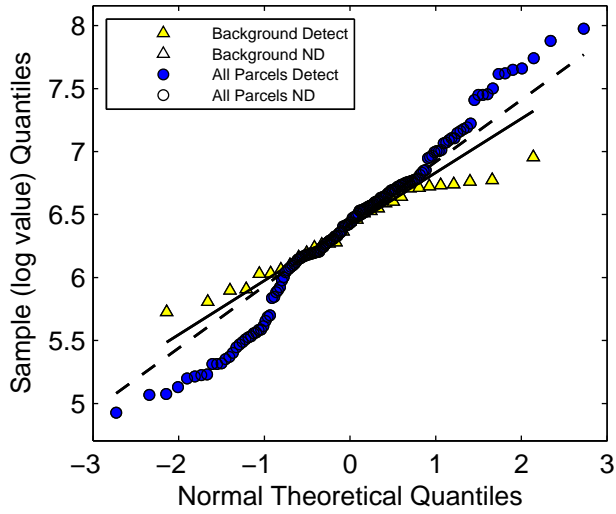


Figure 2-24A. Normal Q-Q Plots
Strontium

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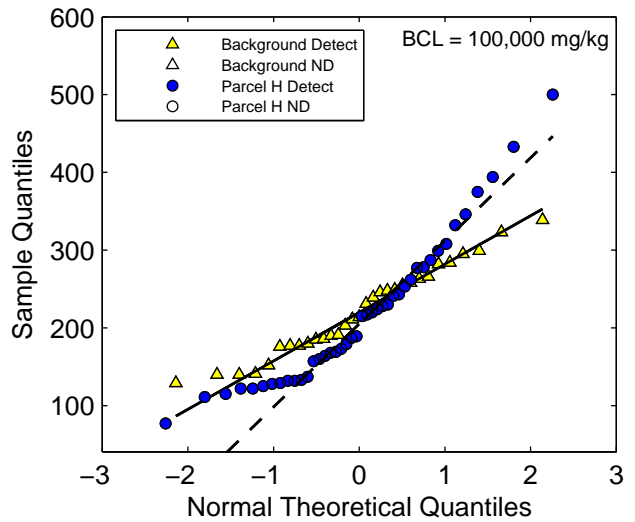
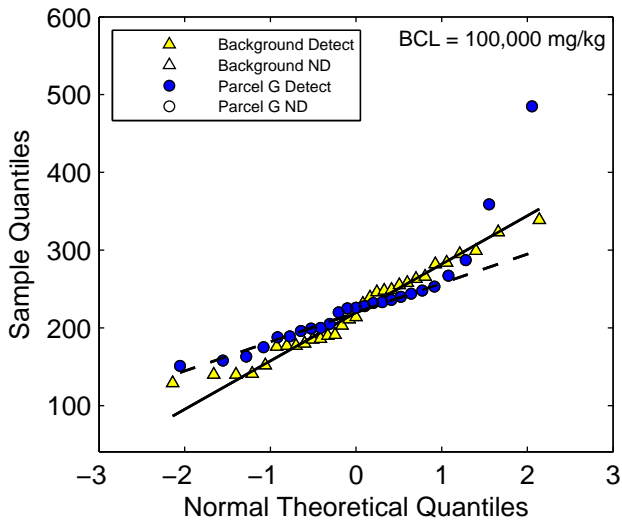
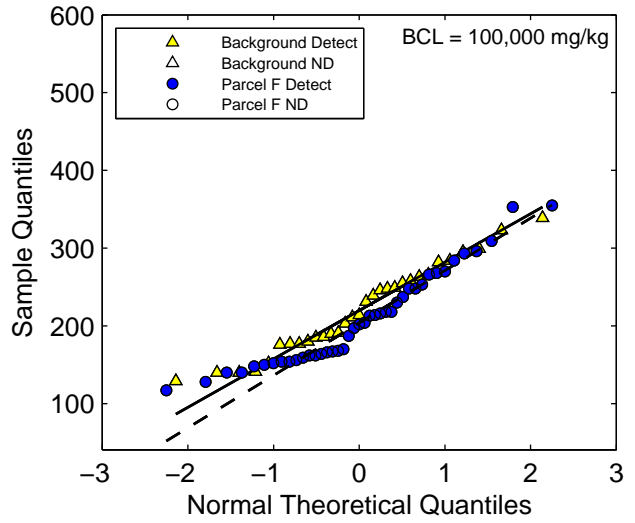
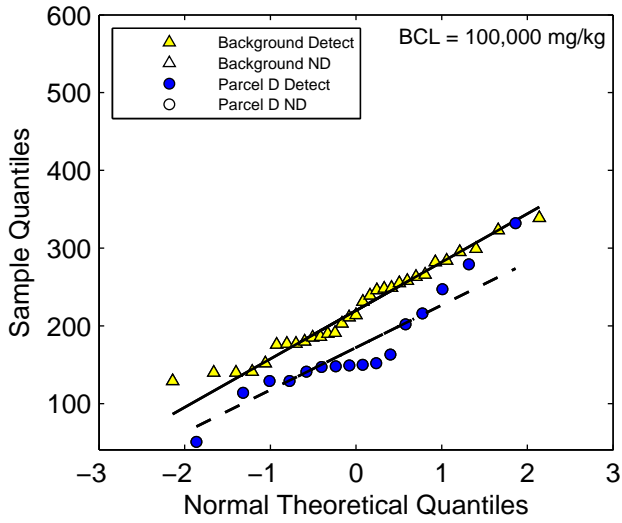
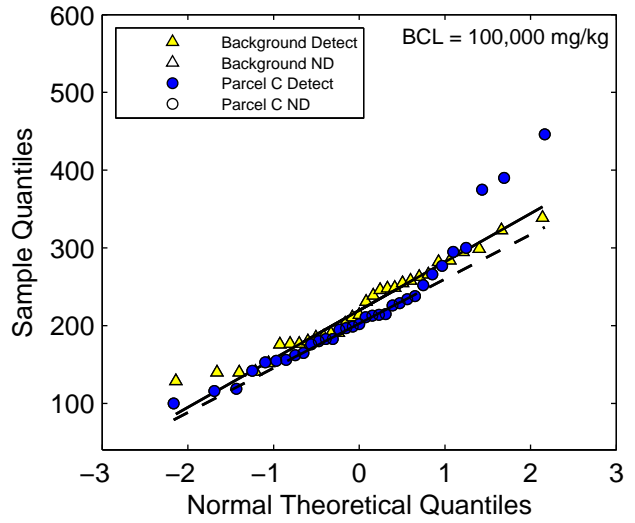
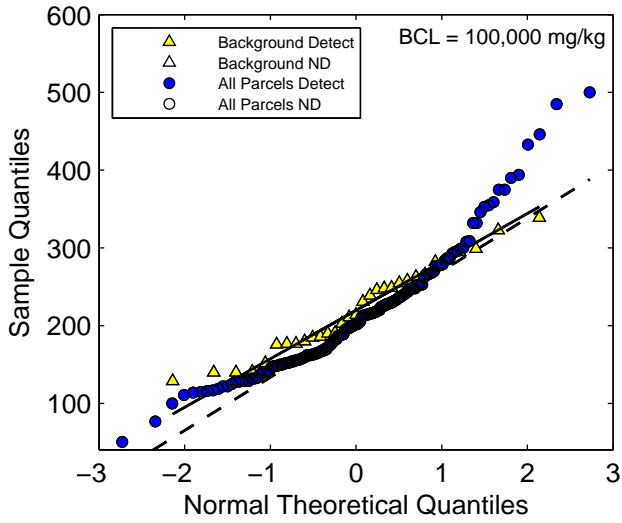


Figure 2-24B. Lognormal Q-Q Plots
Strontium

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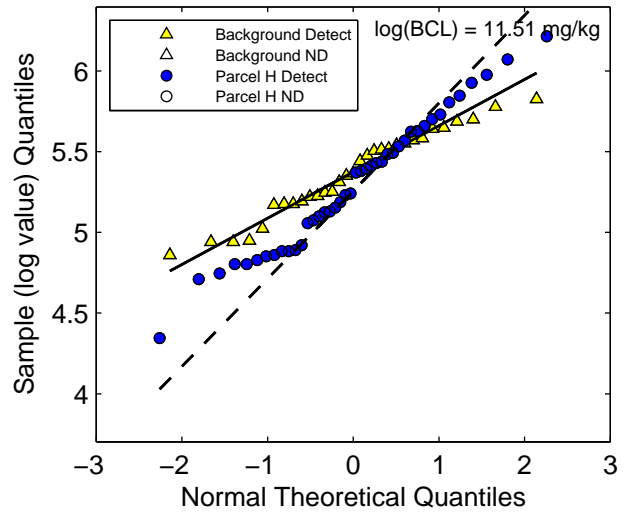
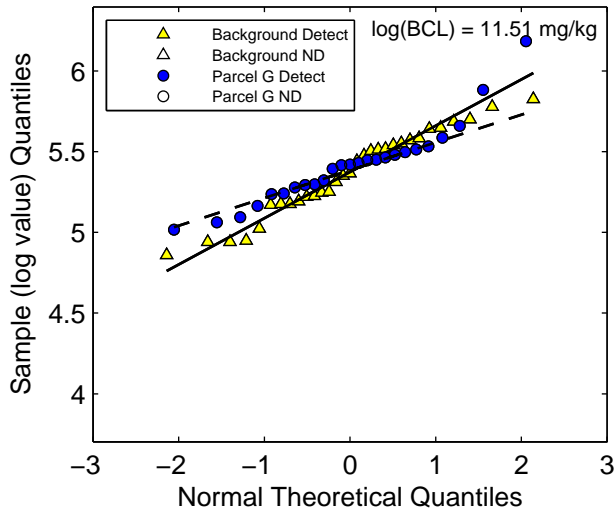
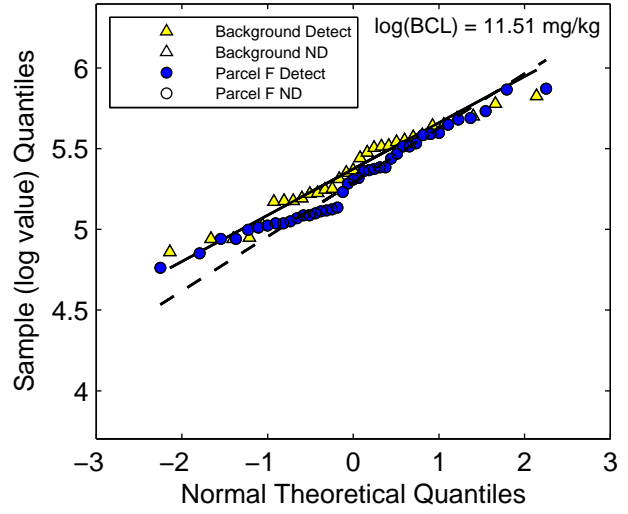
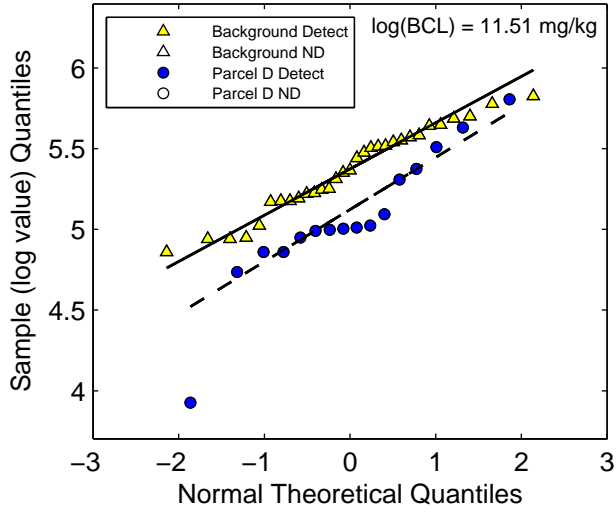
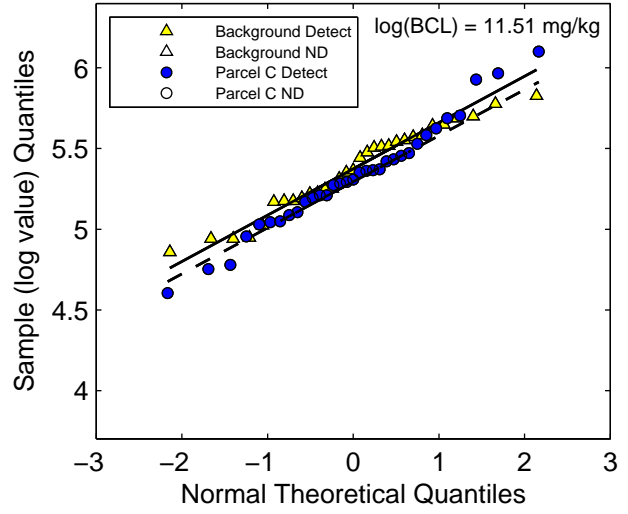
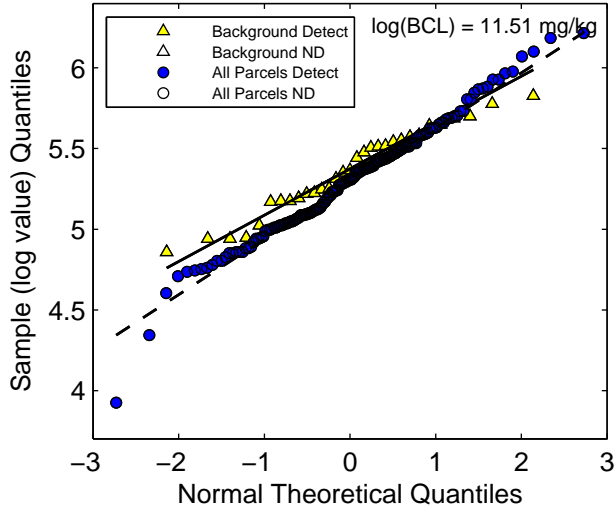


Figure 2-25A. Normal Q-Q Plots
Thallium

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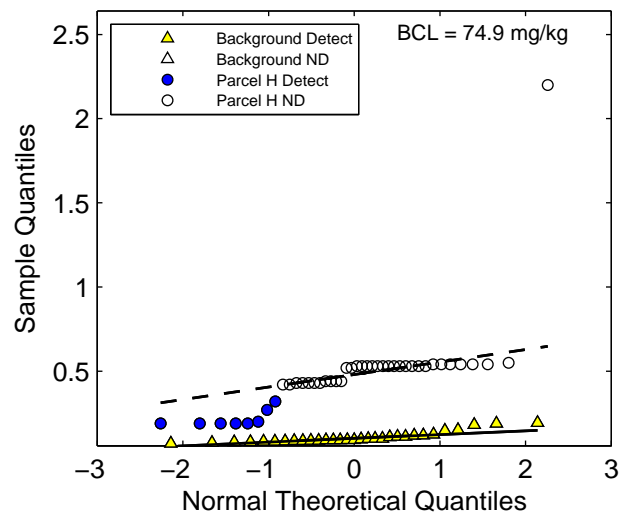
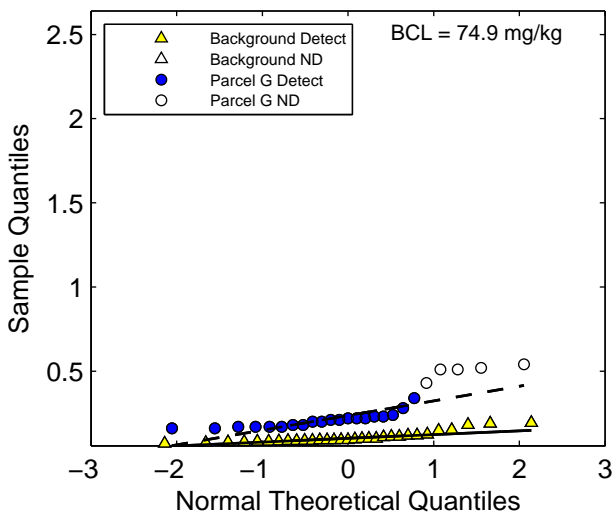
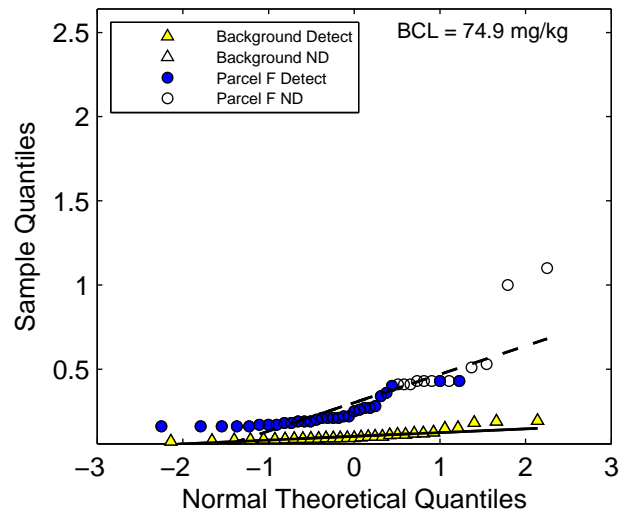
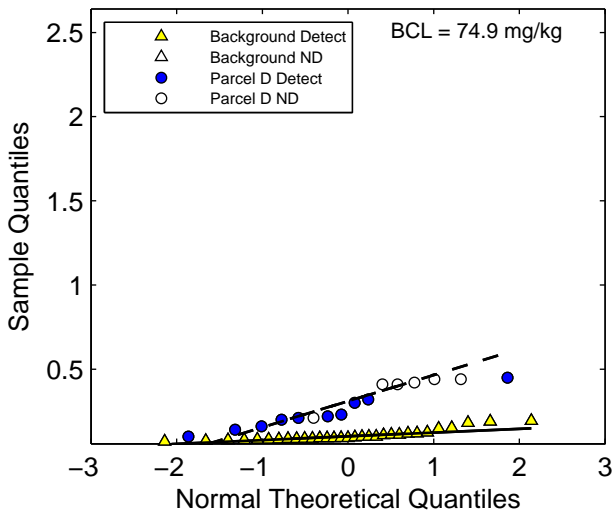
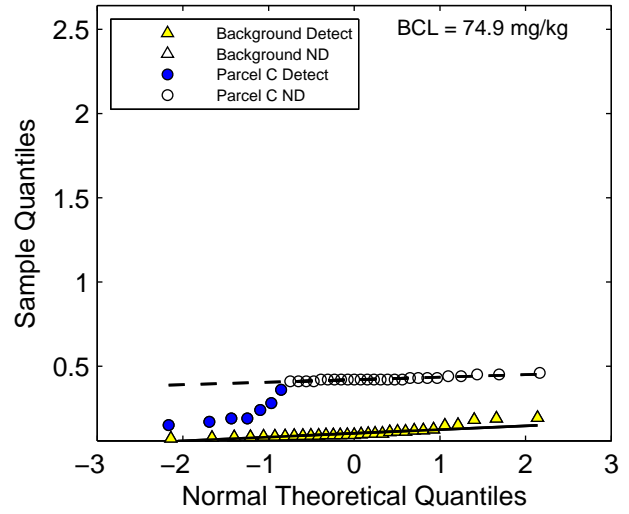
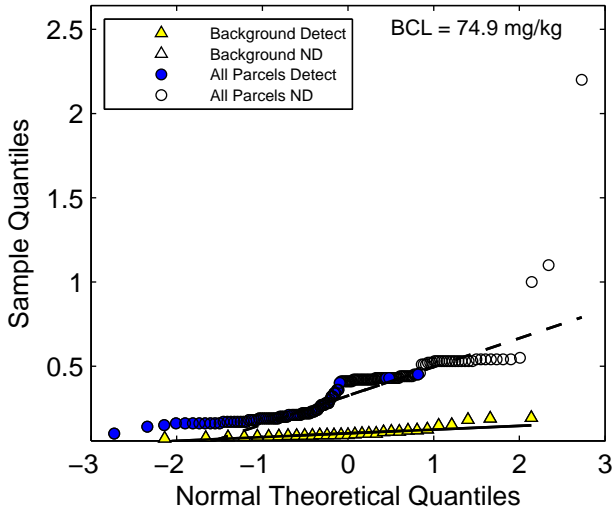


Figure 2-25B. Lognormal Q-Q Plots
Thallium

DRAFT

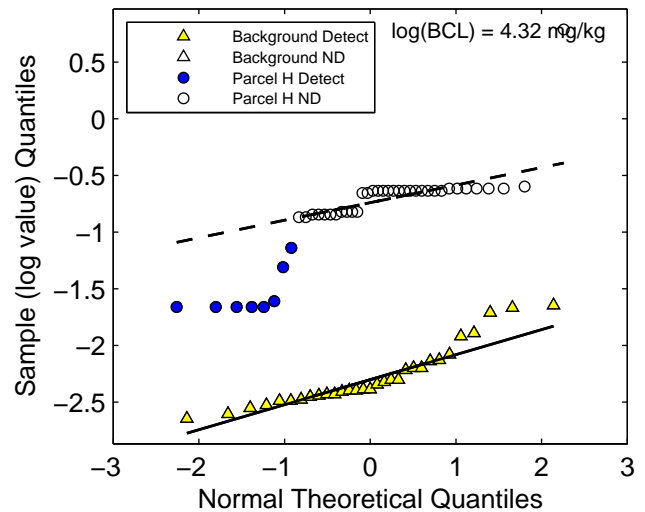
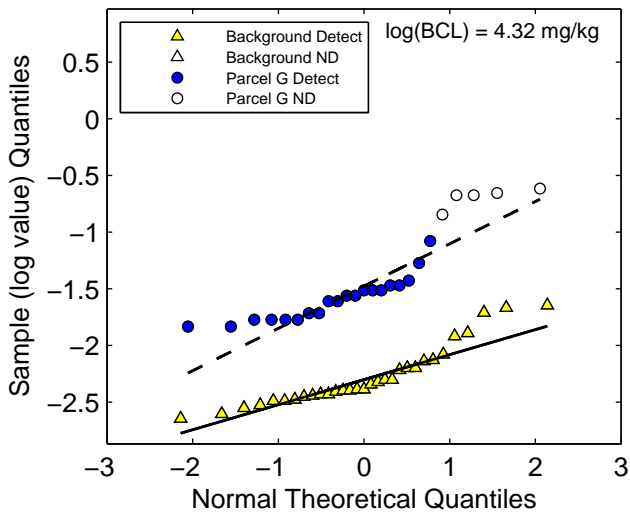
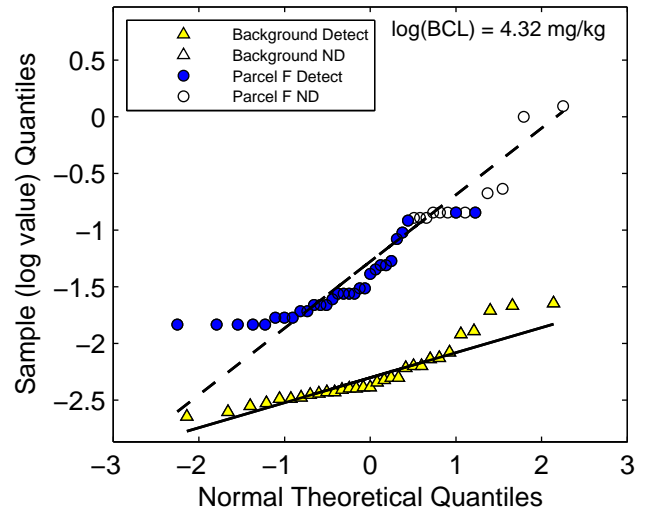
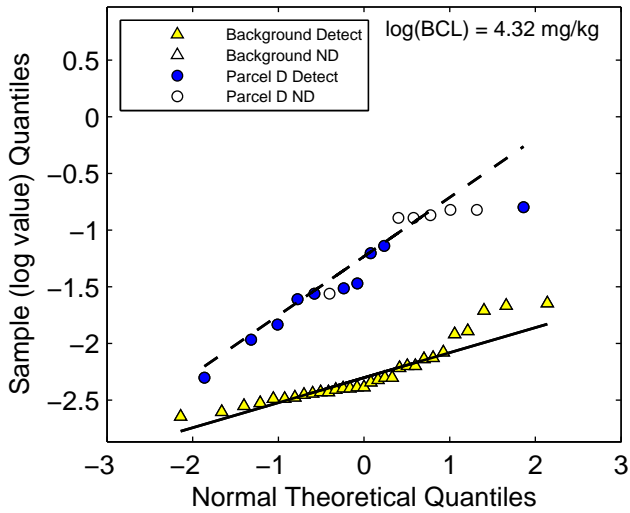
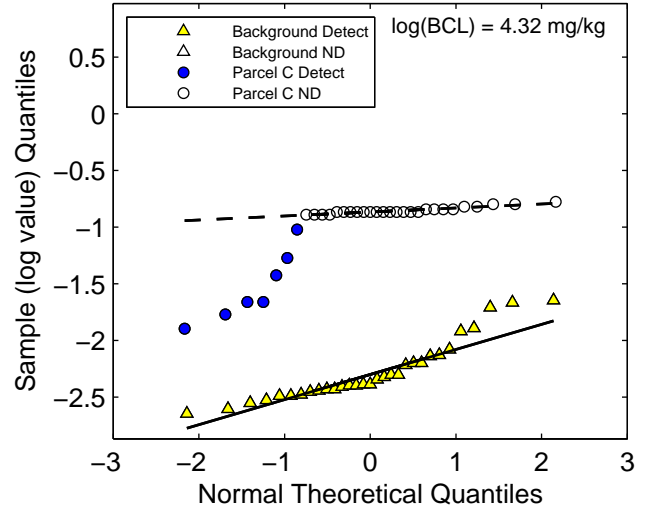
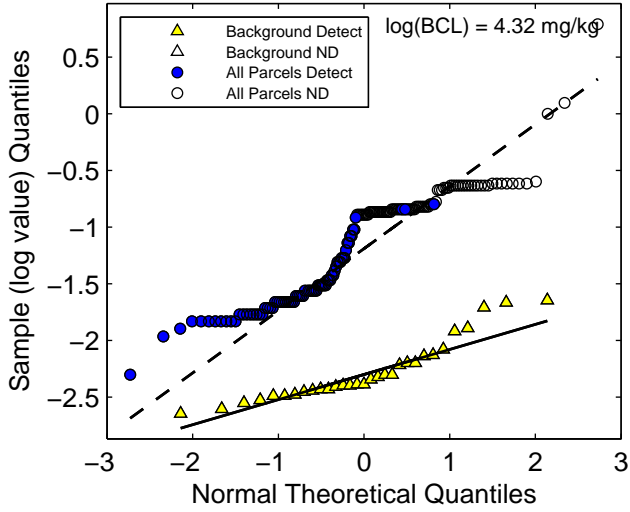


Figure 2-26A. Normal Q-Q Plots

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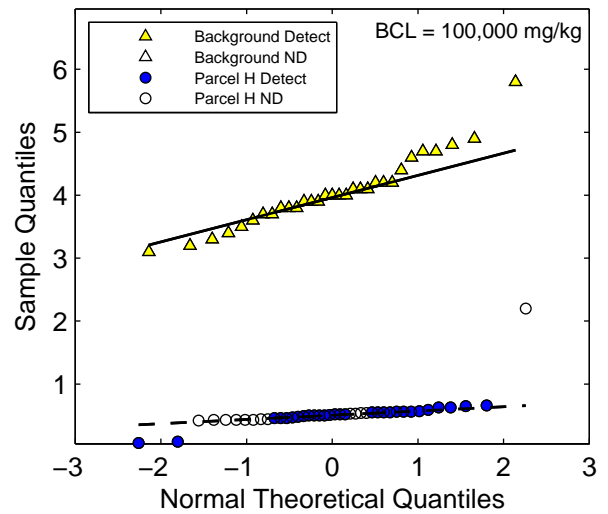
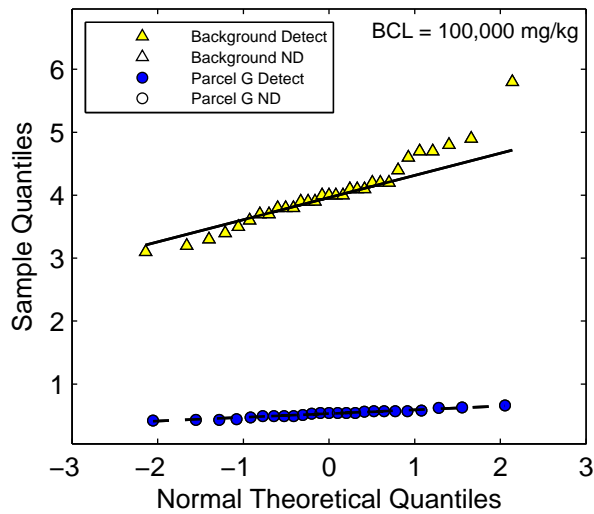
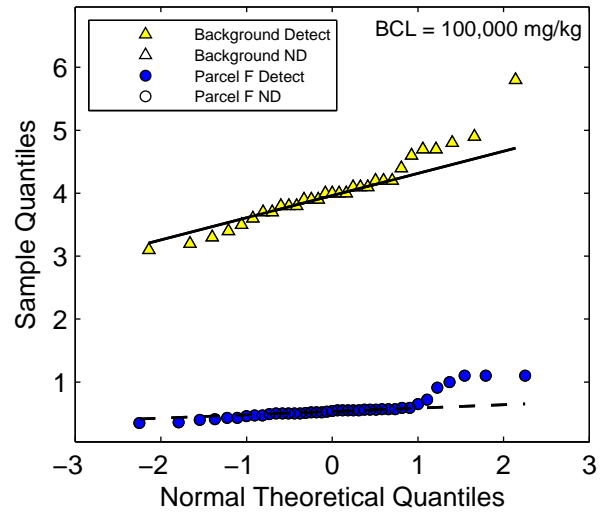
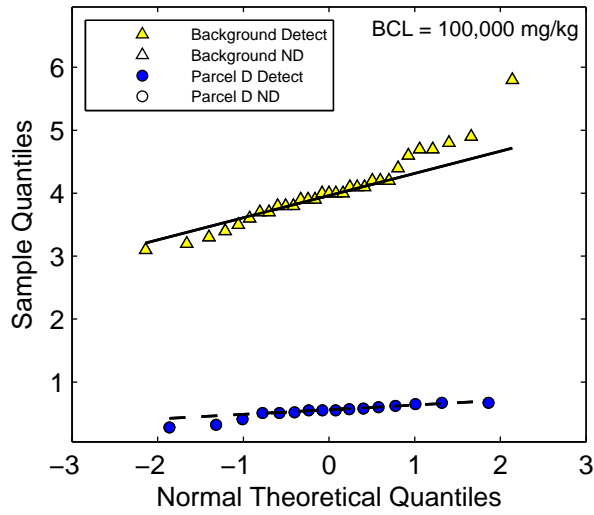
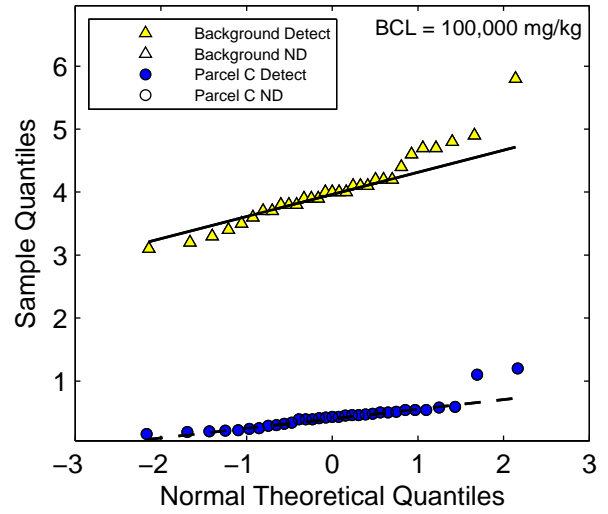
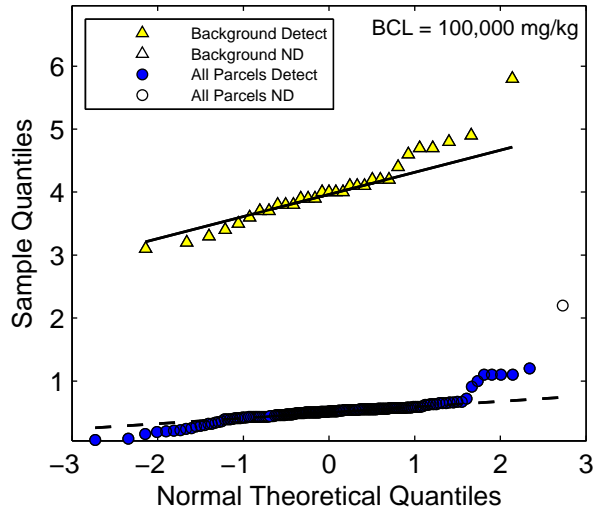


Figure 2-26B. Lognormal Q-Q Plots

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Tin

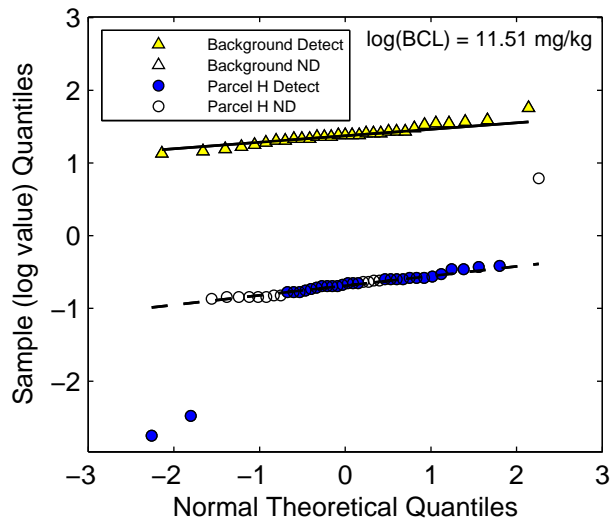
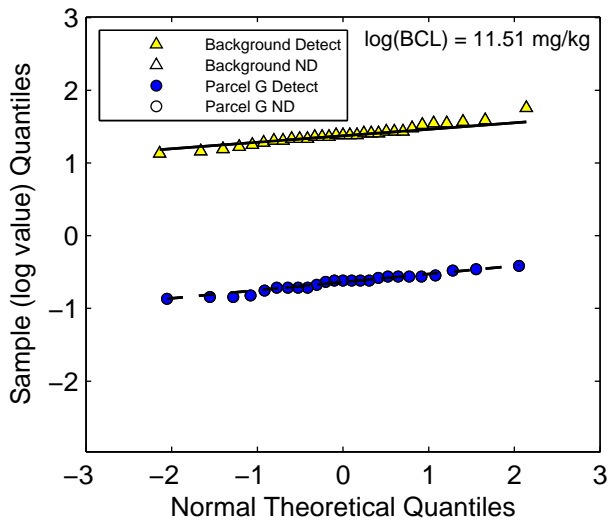
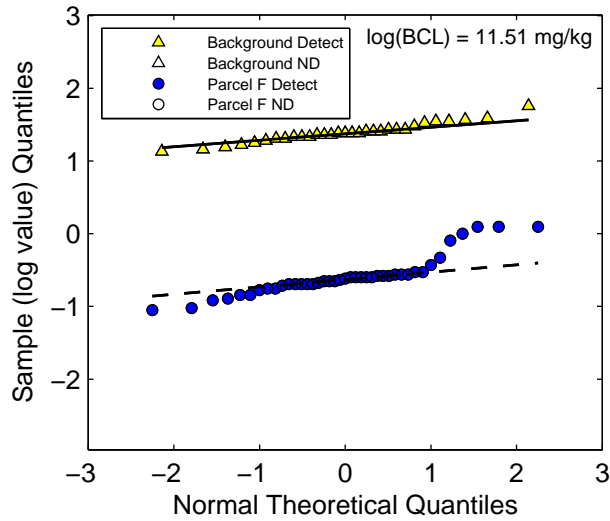
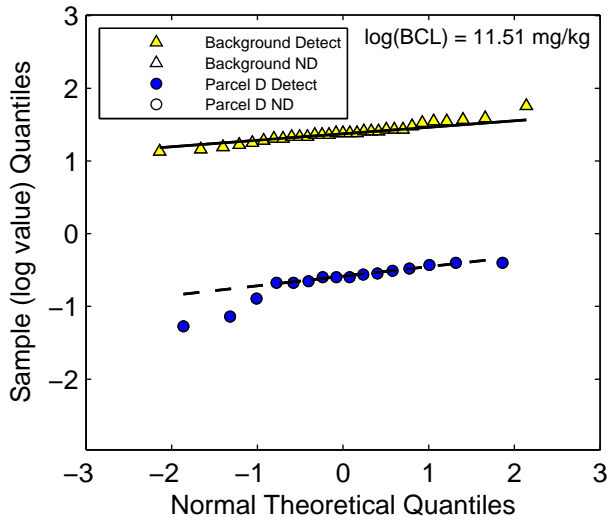
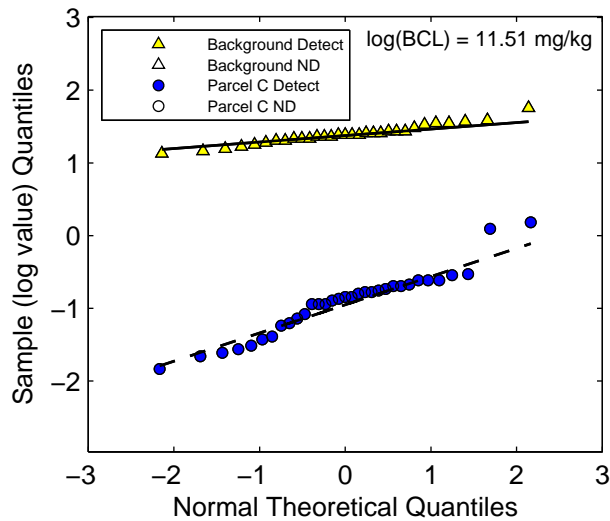
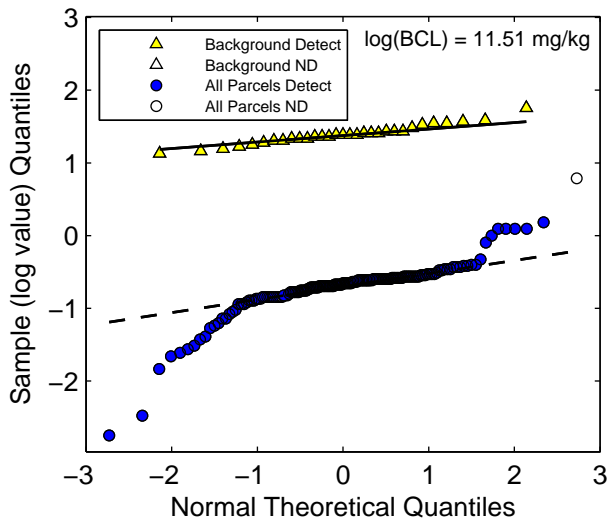


Figure 2-27A. Normal Q-Q Plots
Titanium

DRAFT

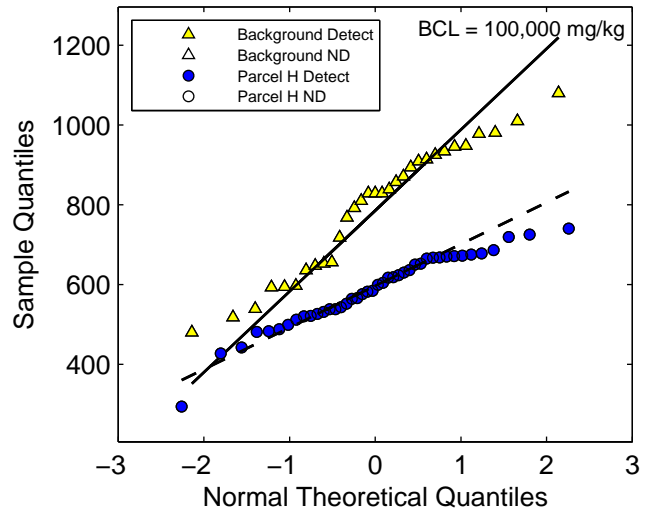
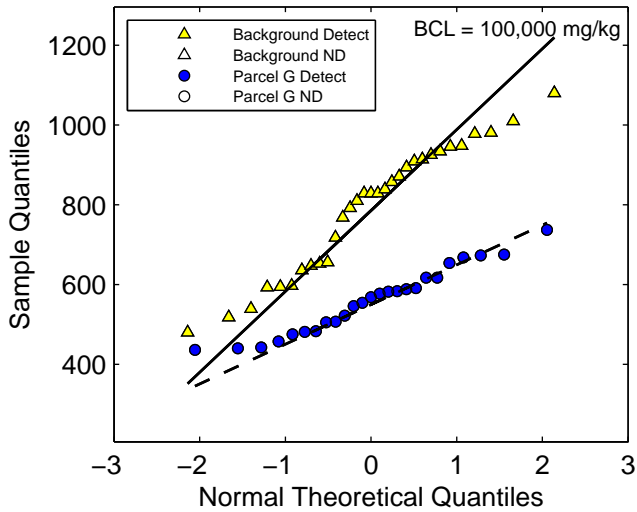
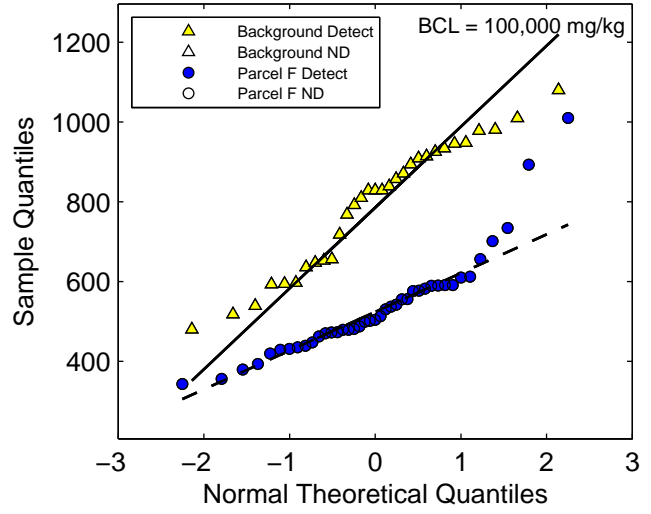
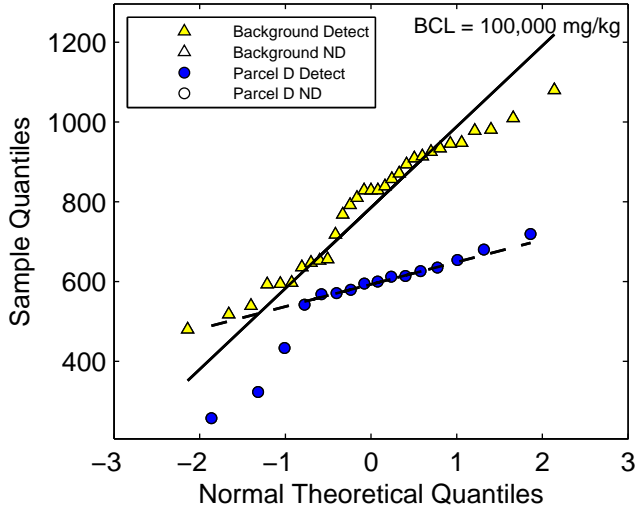
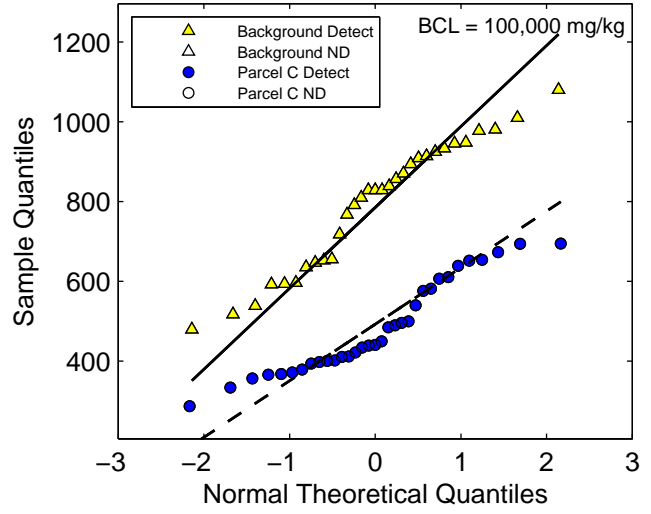
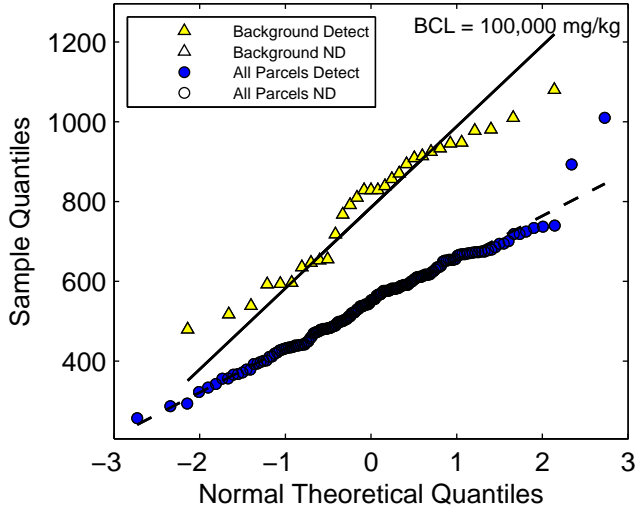


Figure 2-27B. Lognormal Q-Q Plots
Titanium

DRAFT

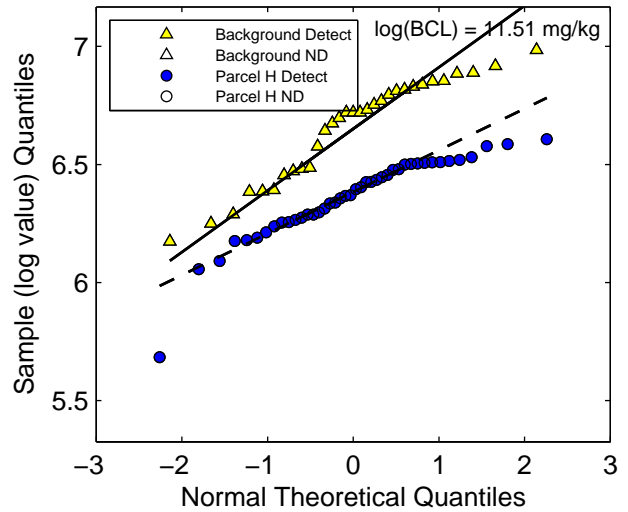
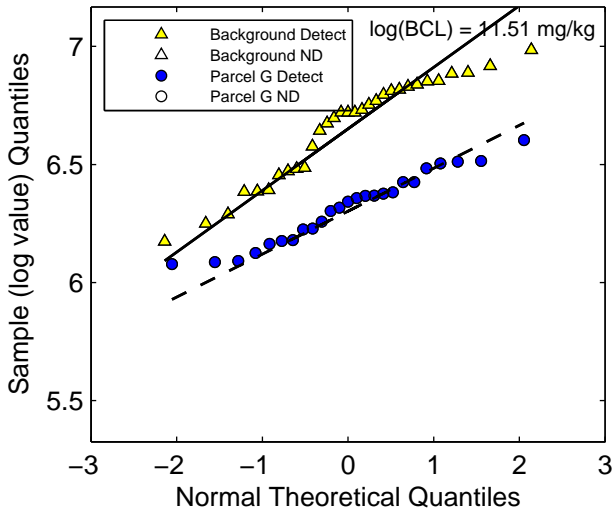
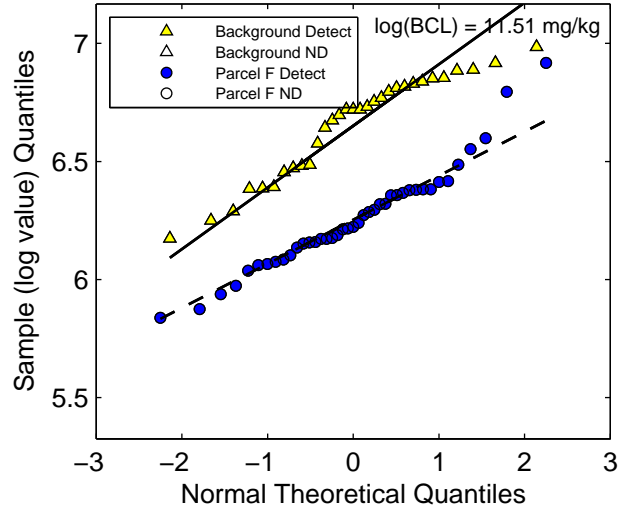
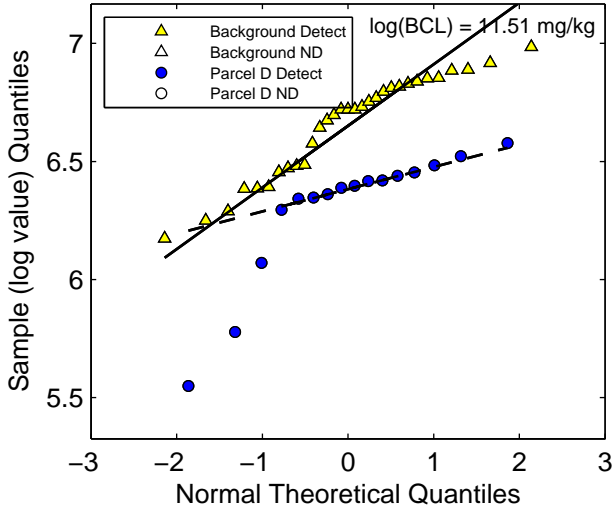
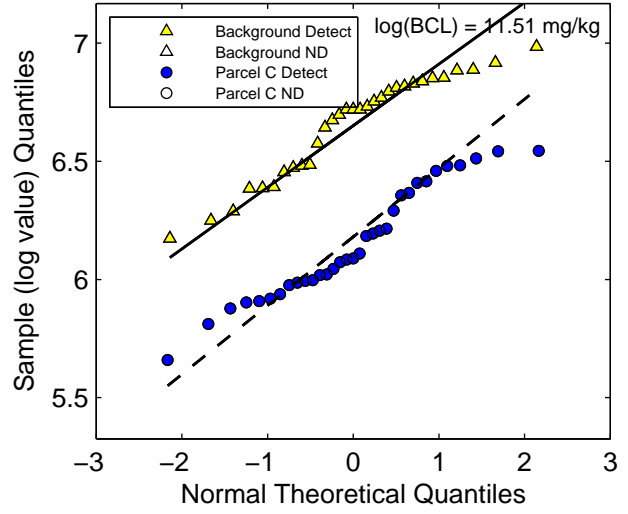
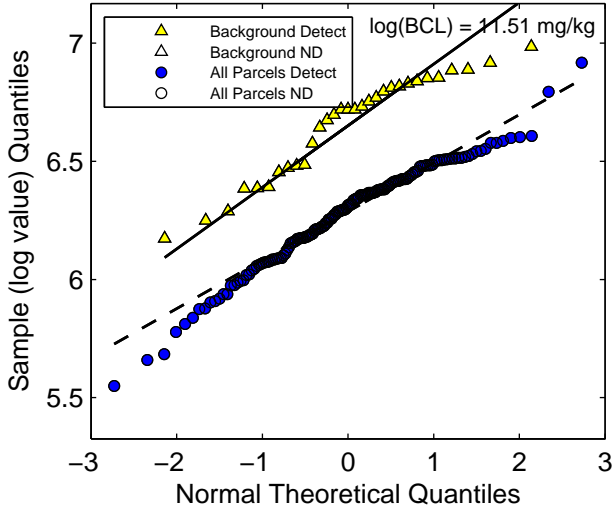


Figure 2-28A. Normal Q-Q Plots
Tungsten

DRAFT

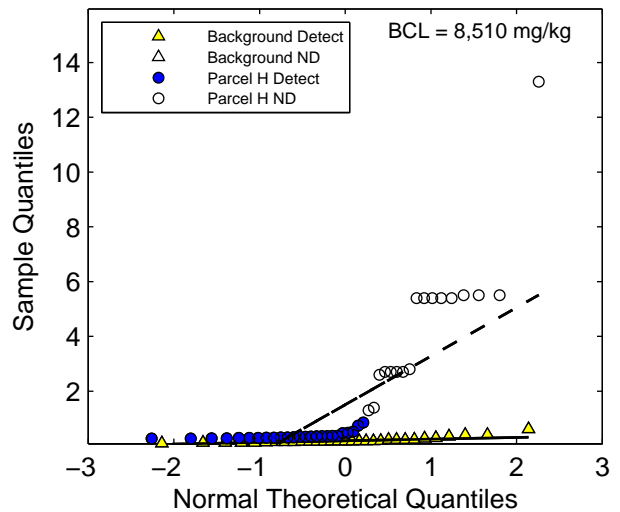
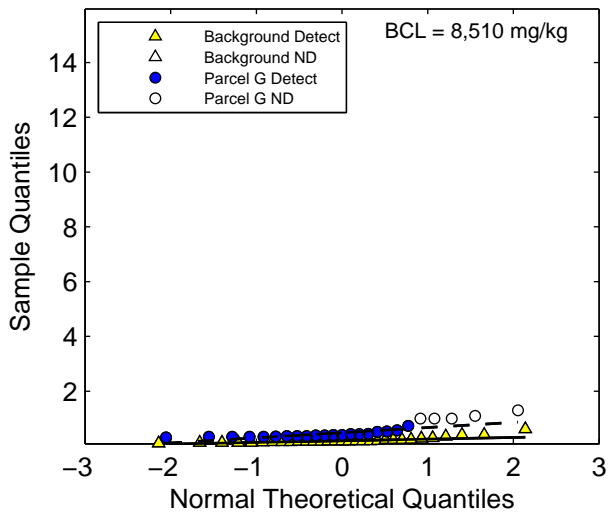
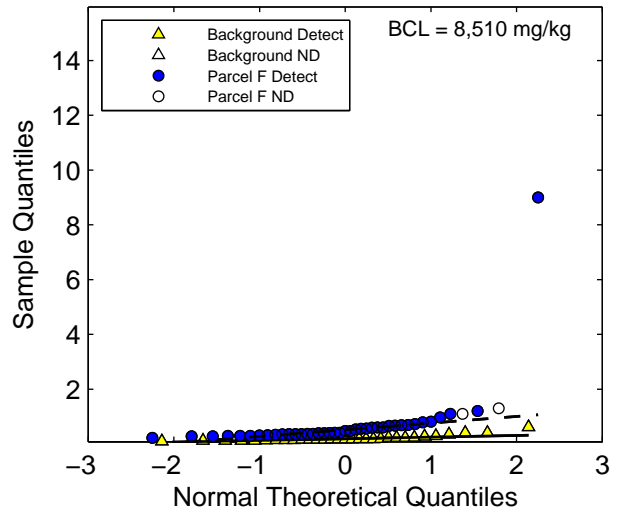
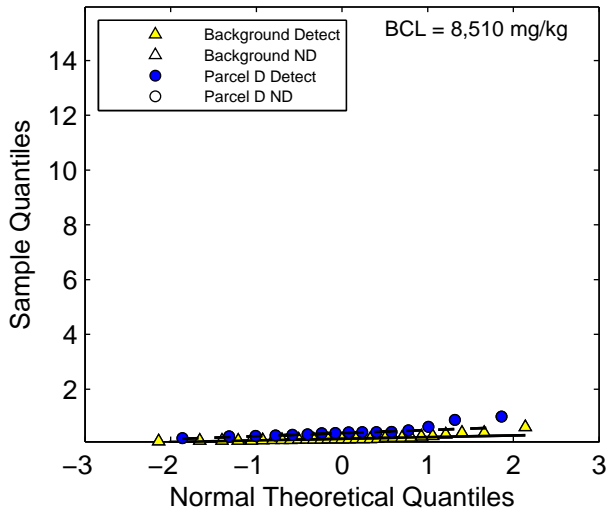
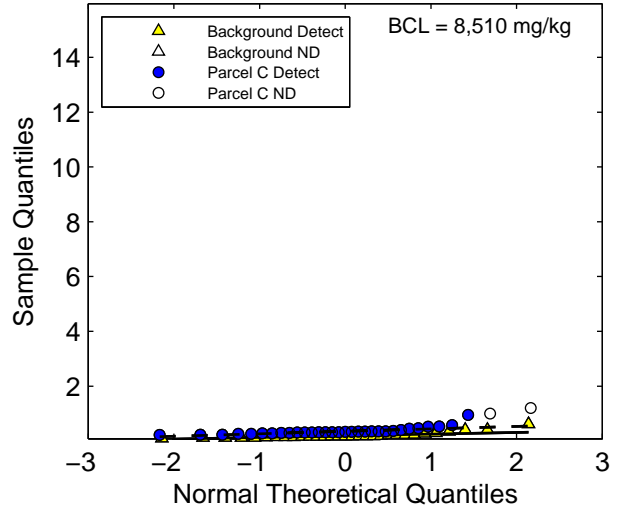
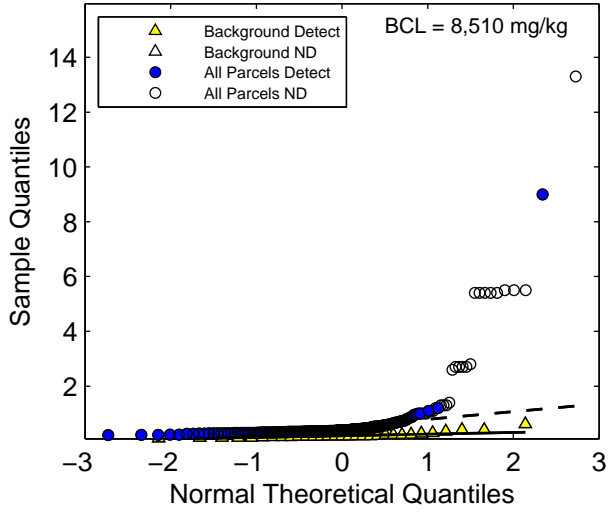


Figure 2-28B. Lognormal Q-Q Plots
Tungsten

DRAFT

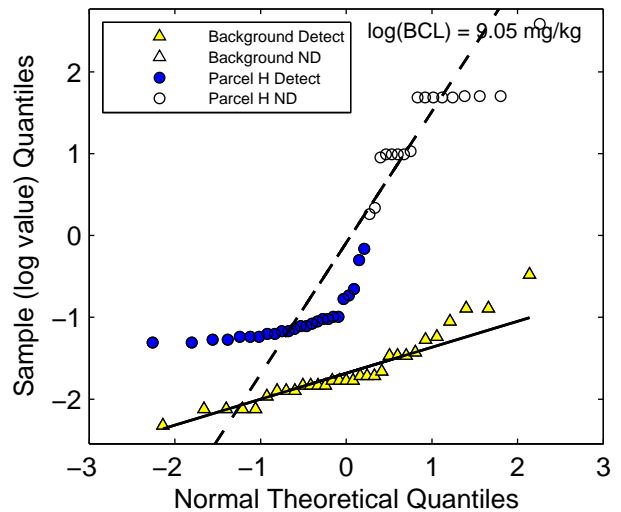
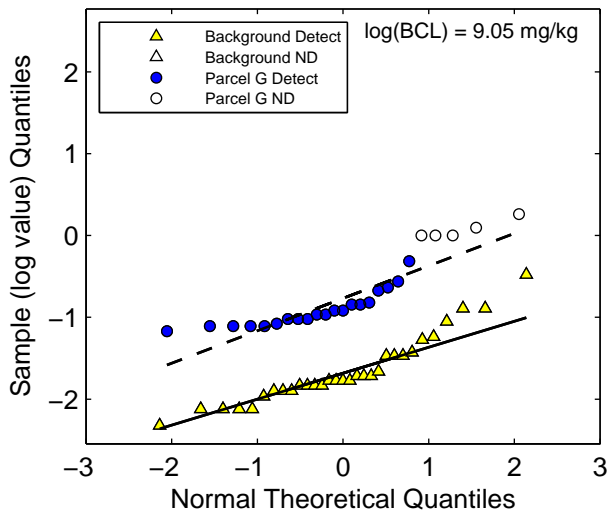
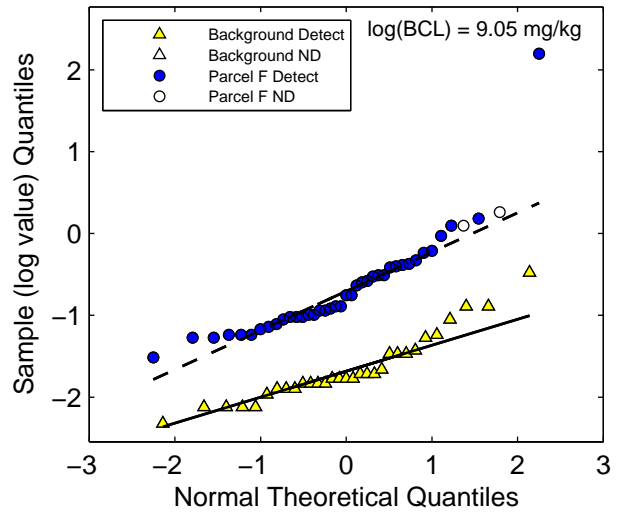
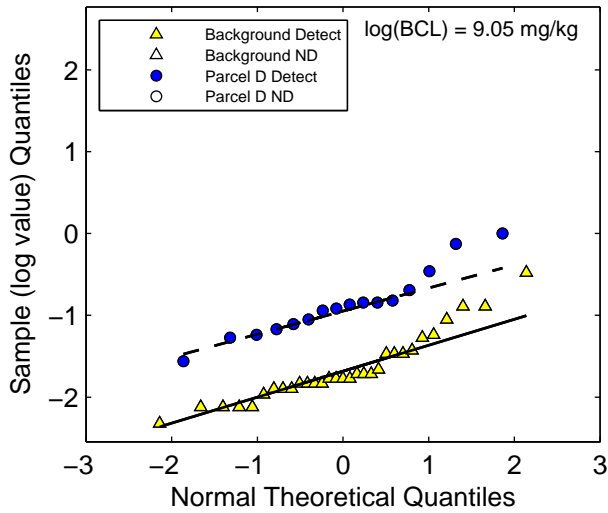
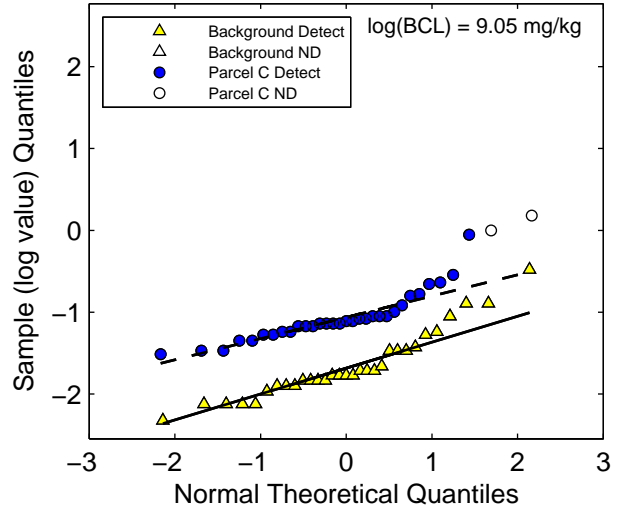
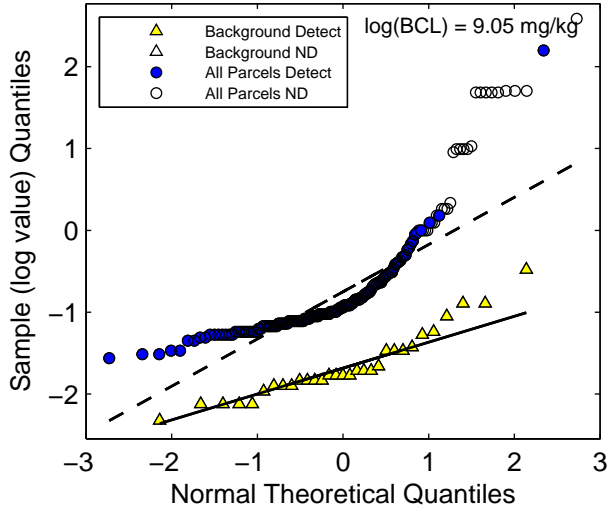


Figure 2-29A. Normal Q-Q Plots
Uranium

DRAFT

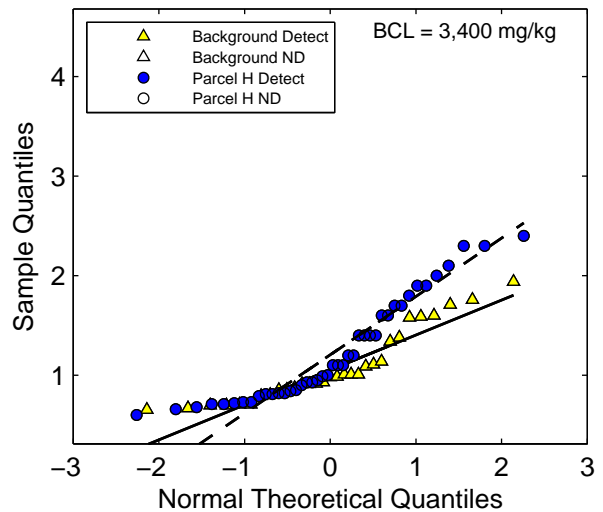
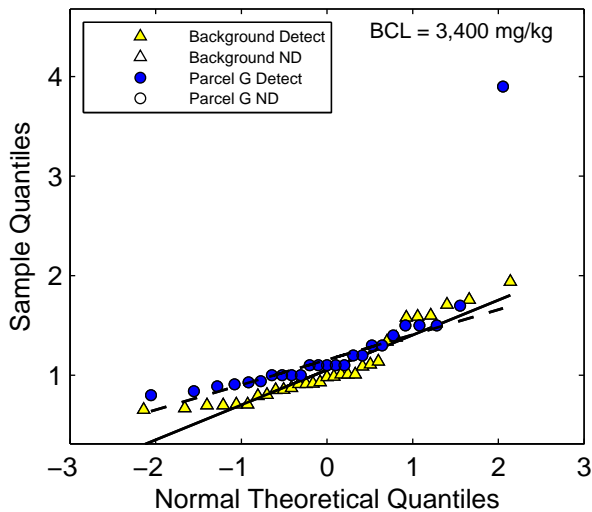
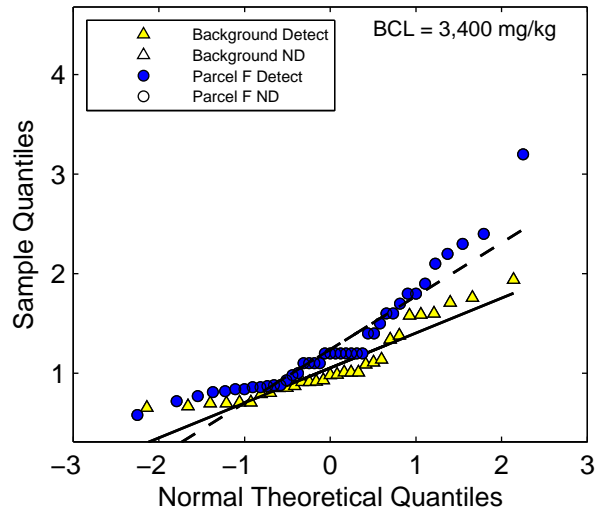
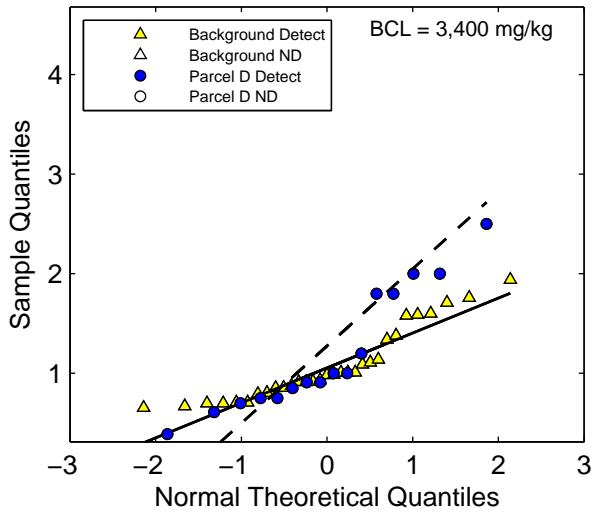
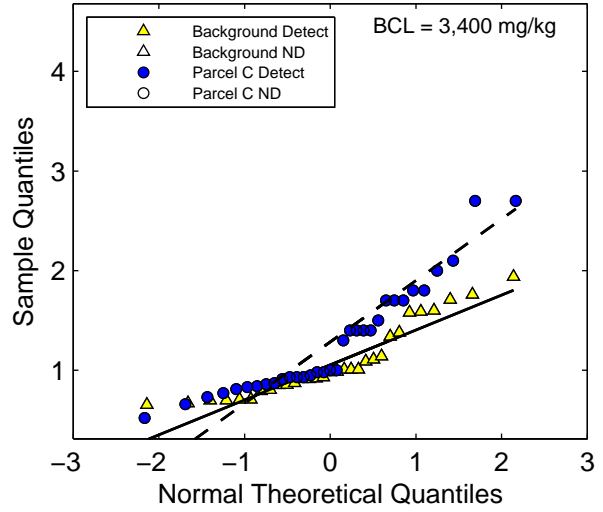
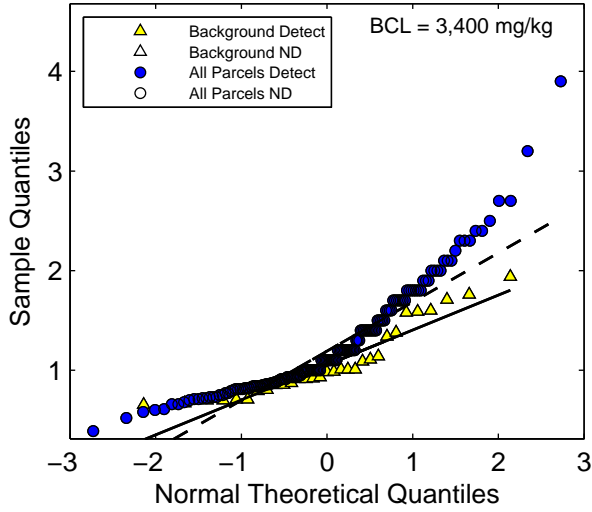


Figure 2-29B. Lognormal Q-Q Plots
Uranium

DRAFT

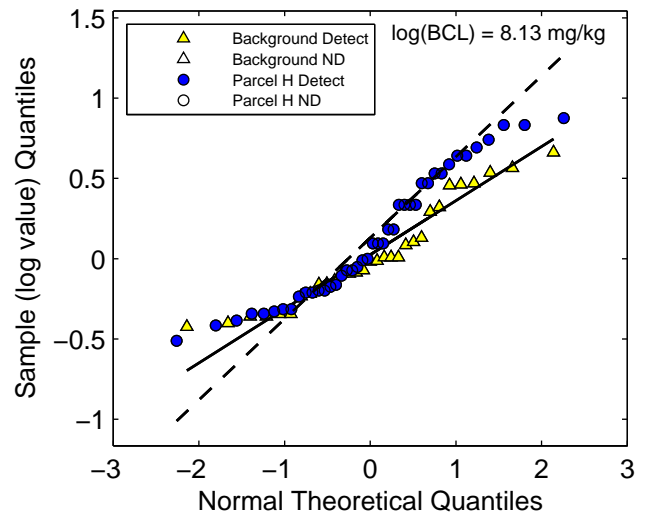
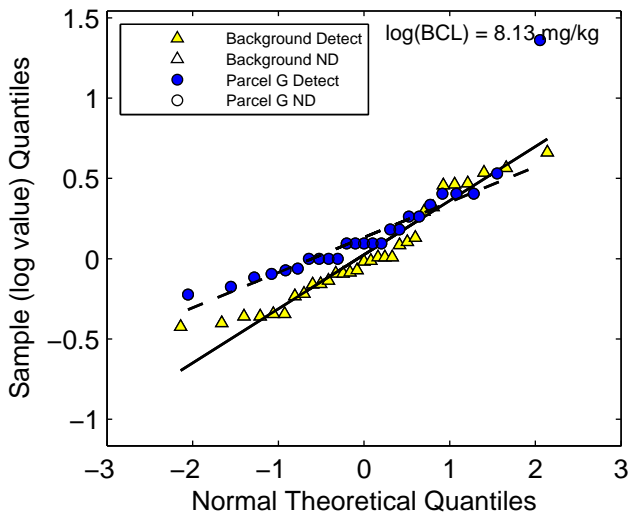
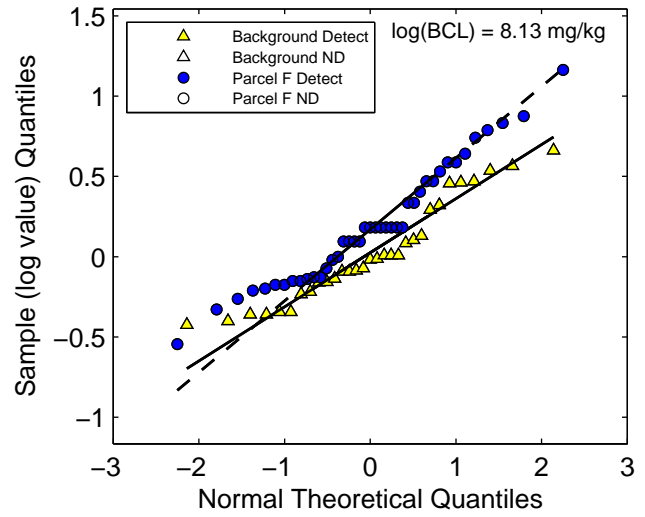
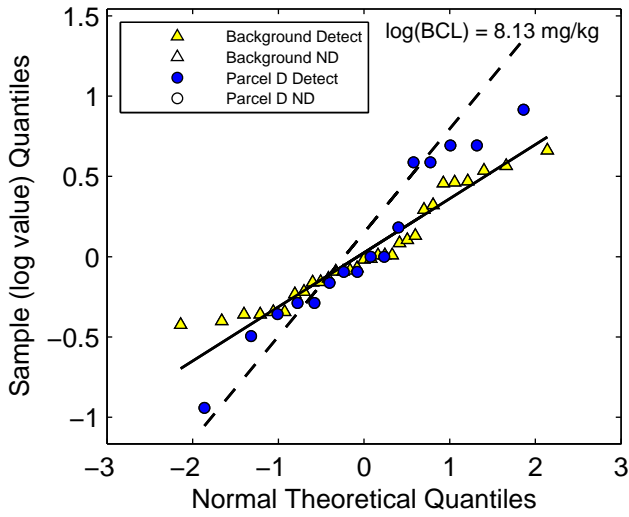
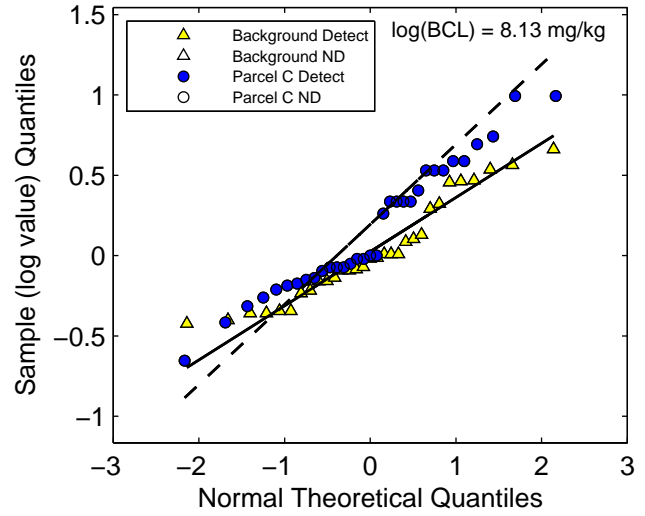
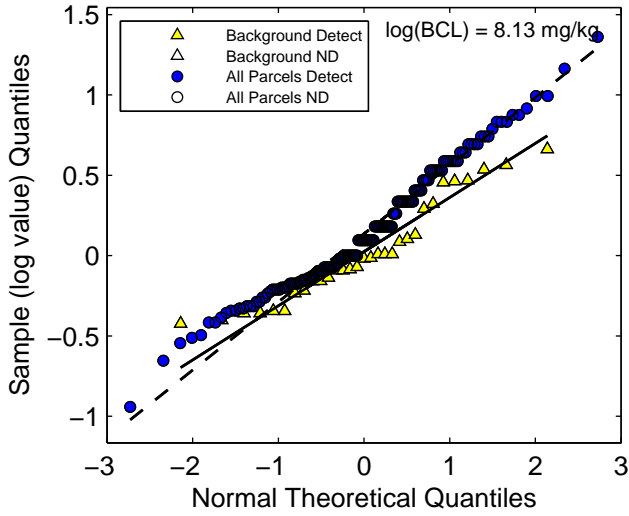


Figure 2-30A. Normal Q-Q Plots
Vanadium

DRAFT

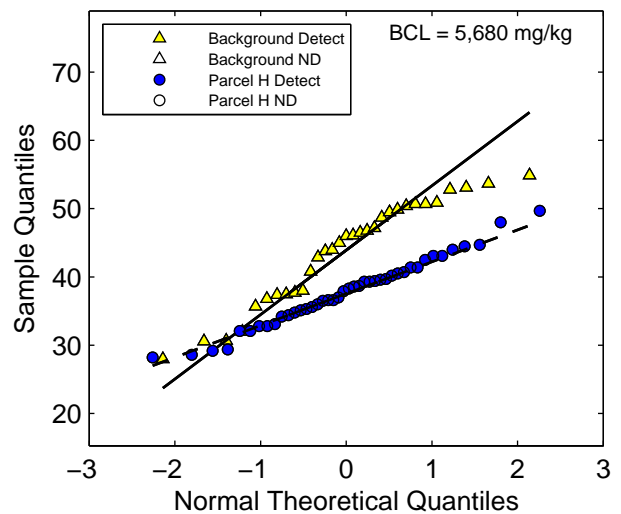
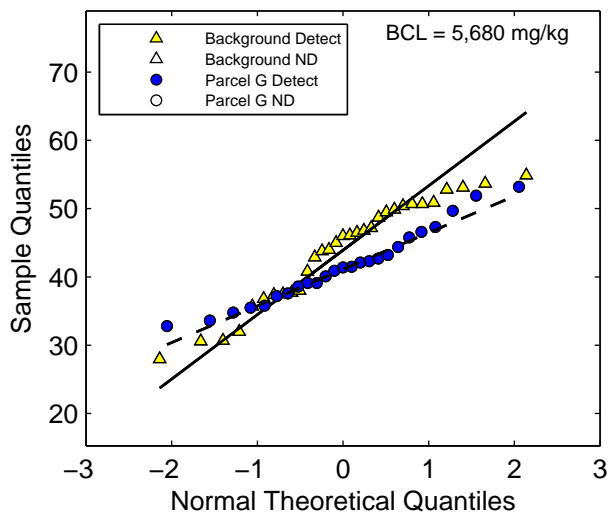
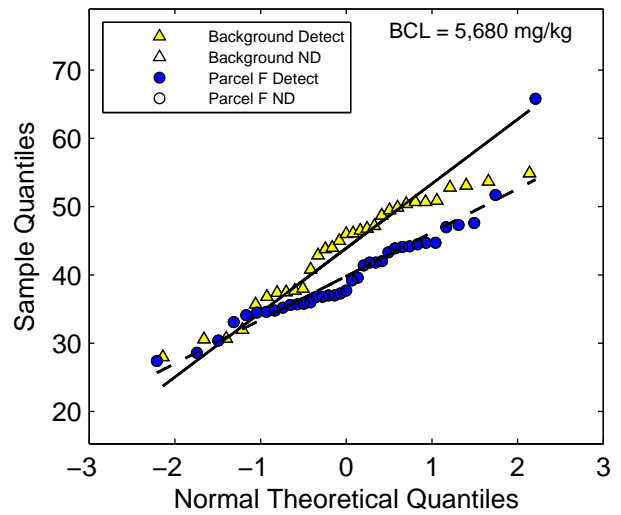
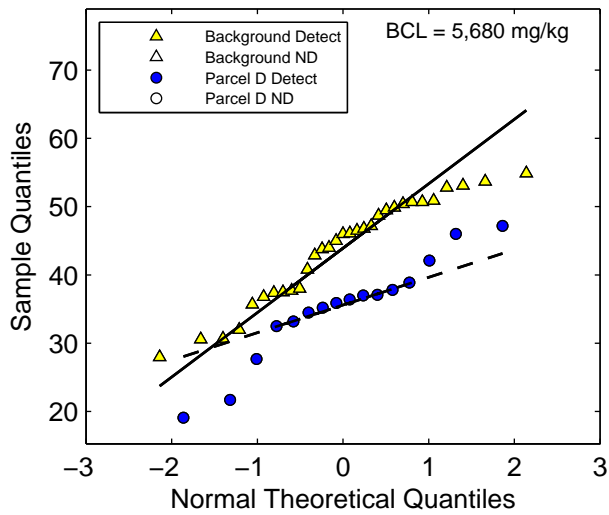
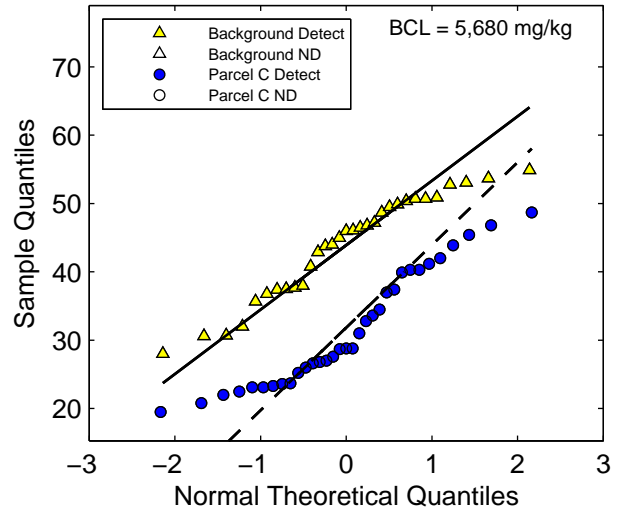
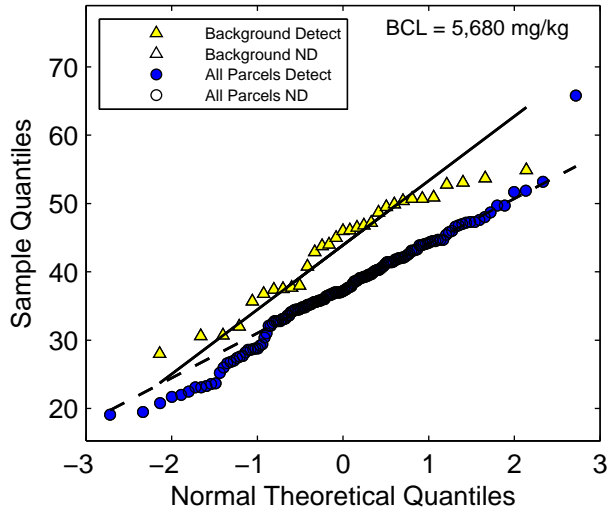


Figure 2-30B. Lognormal Q-Q Plots
Vanadium

DRAFT

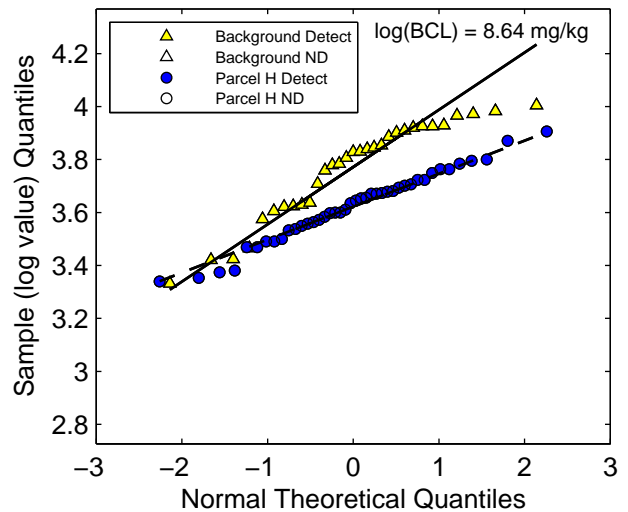
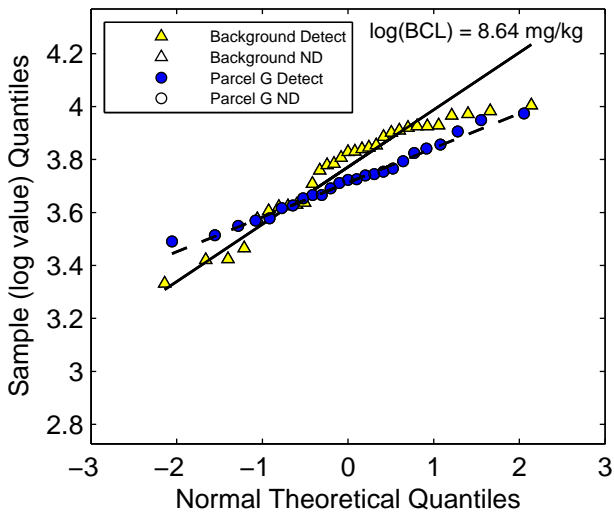
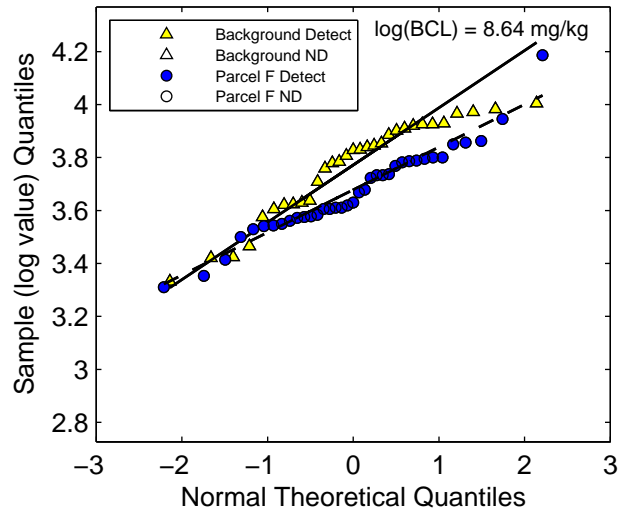
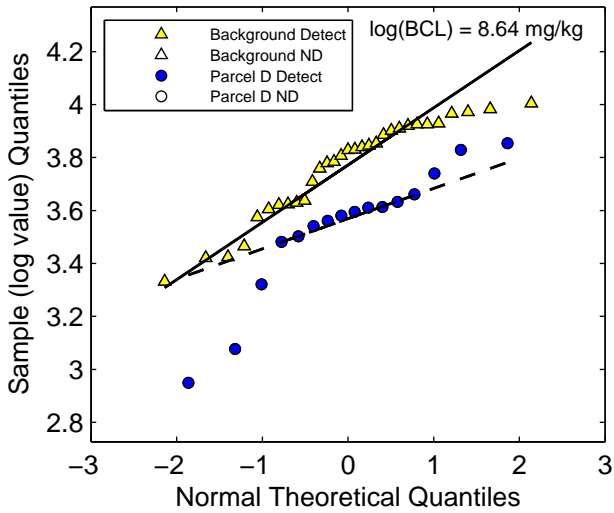
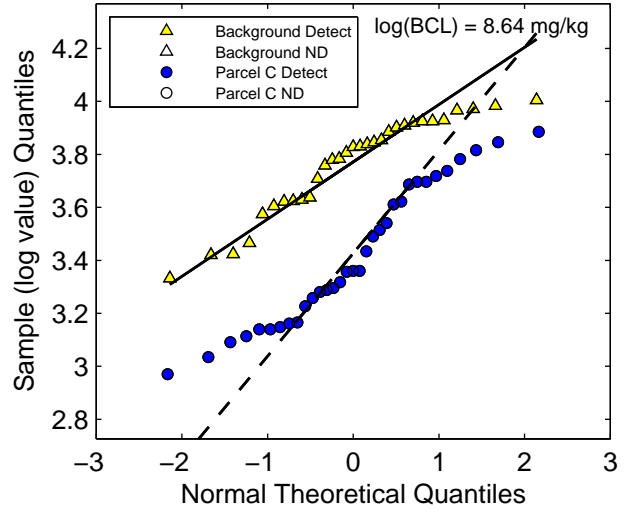
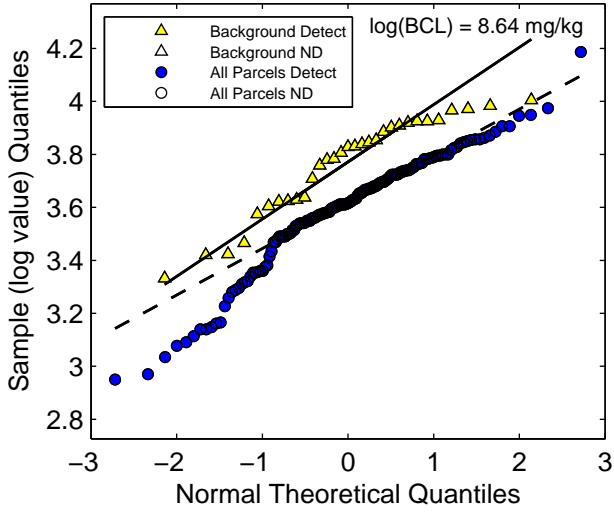


Figure 2-31A. Normal Q-Q Plots

DRAFT

Zinc

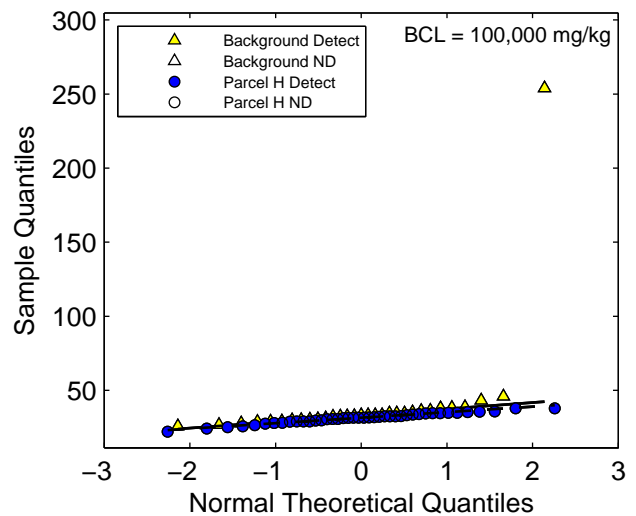
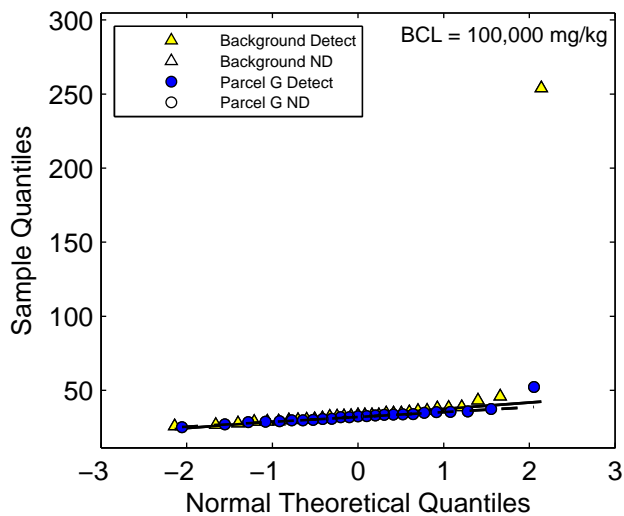
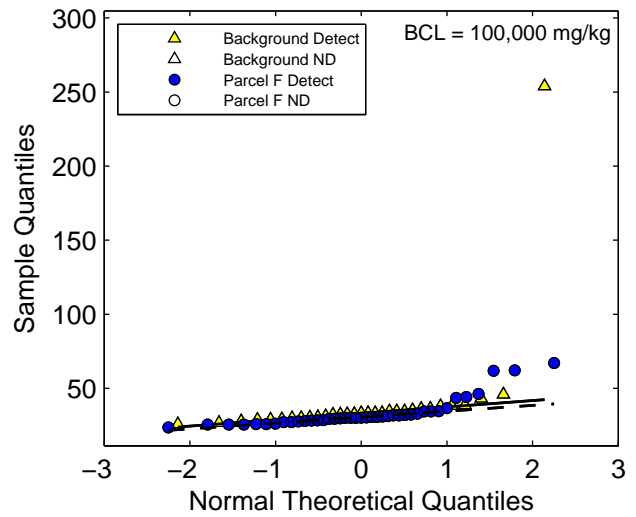
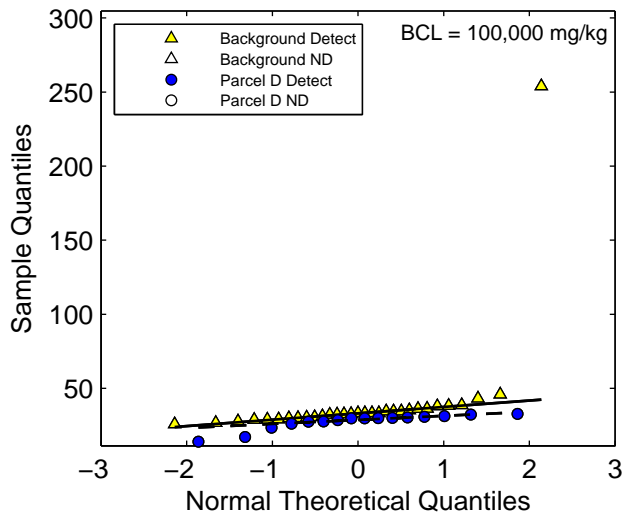
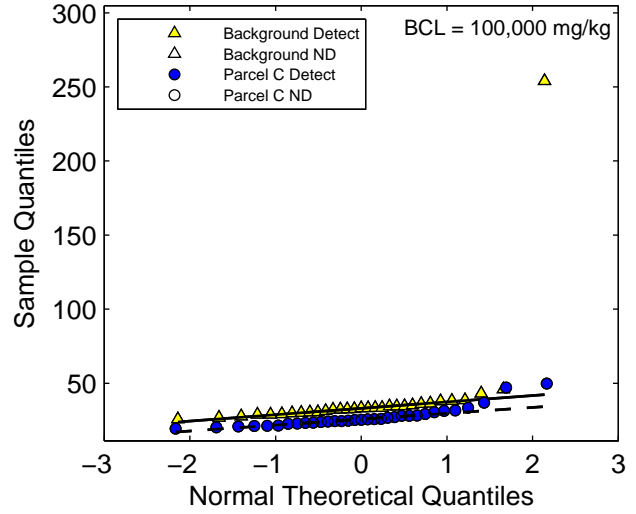
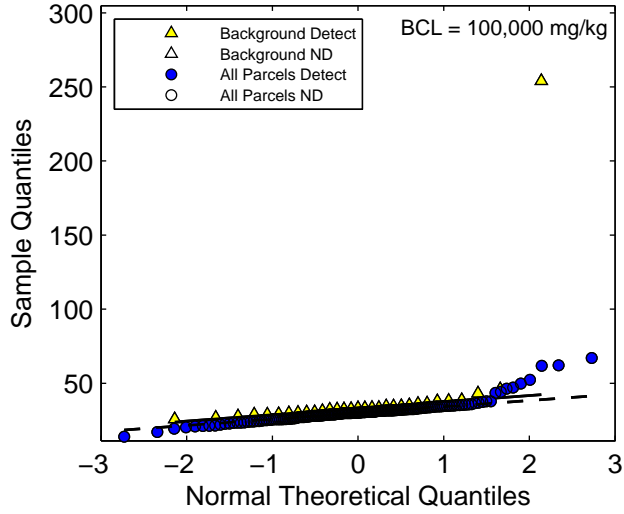


Figure 2-31B. Lognormal Q-Q Plots
Zinc

DRAFT

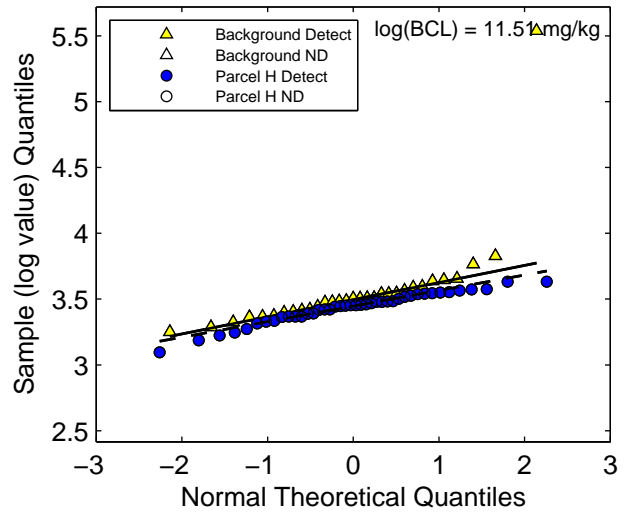
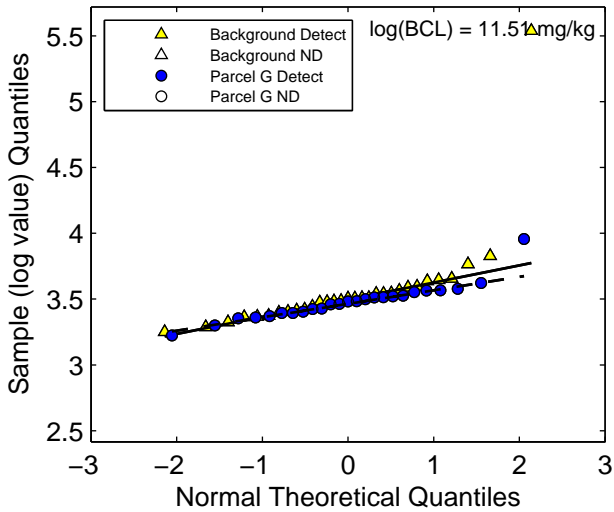
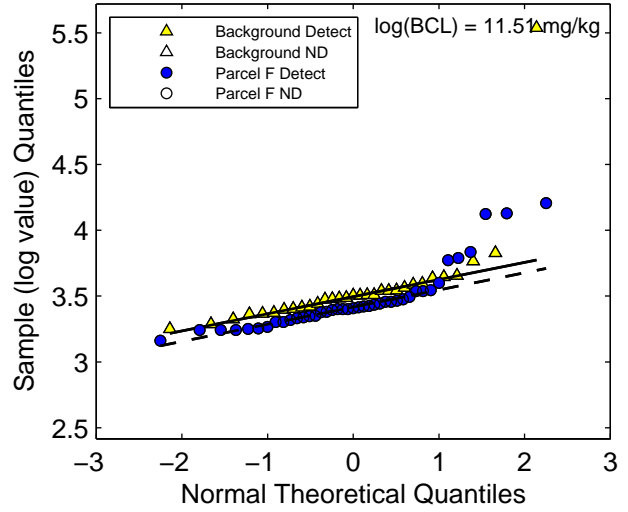
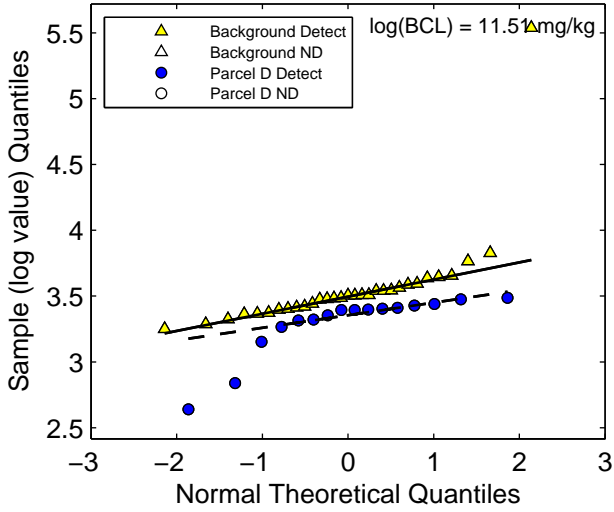
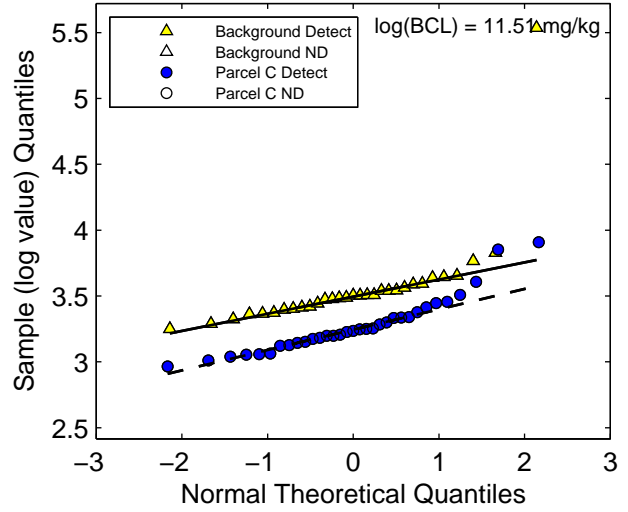
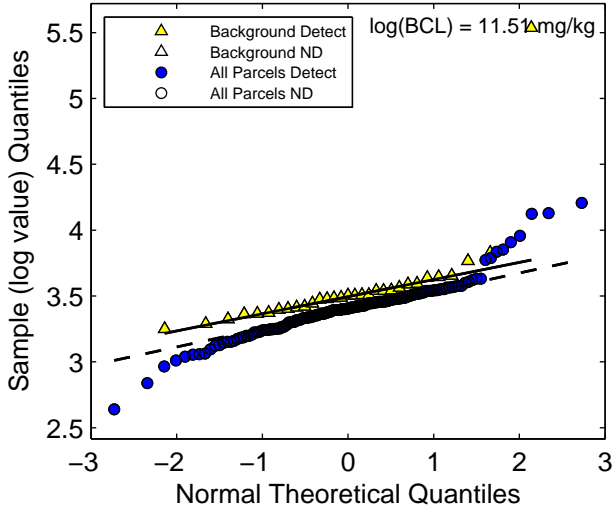
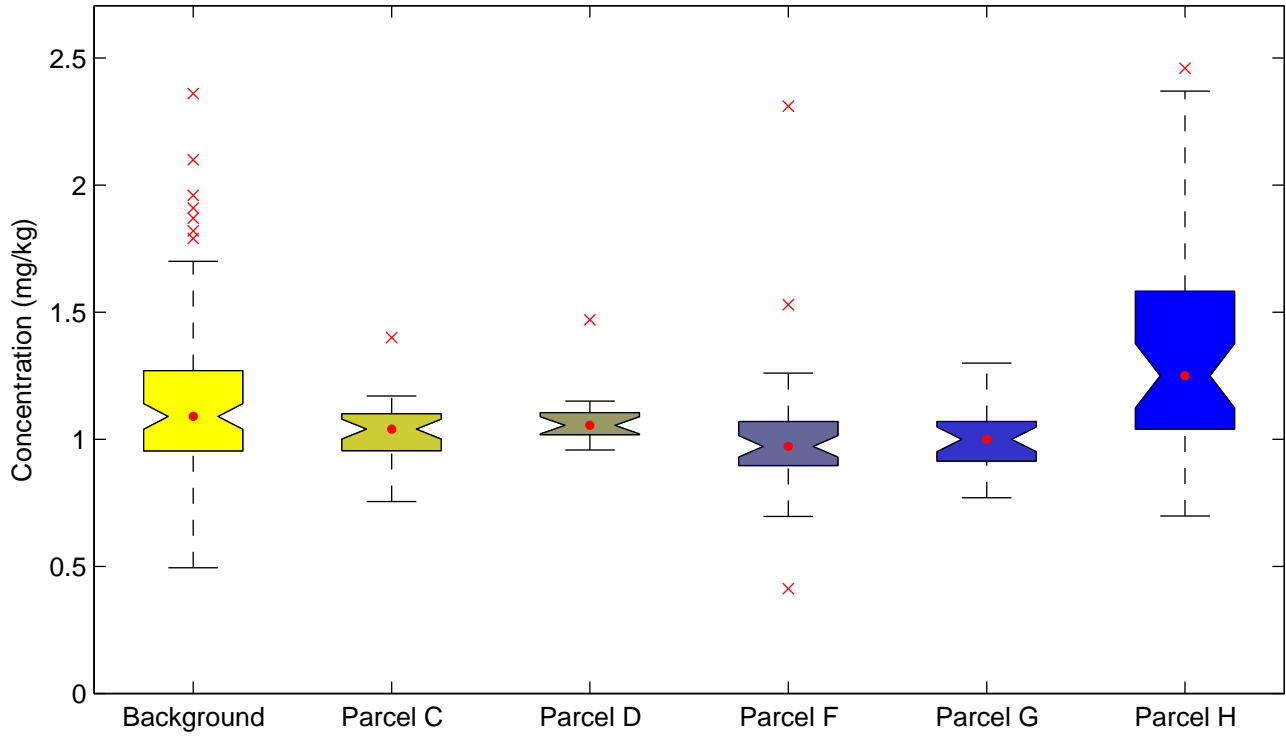


Figure 3-1. Background vs. Site Boxplots
Ra-226

DRAFT



x Detected Outliers

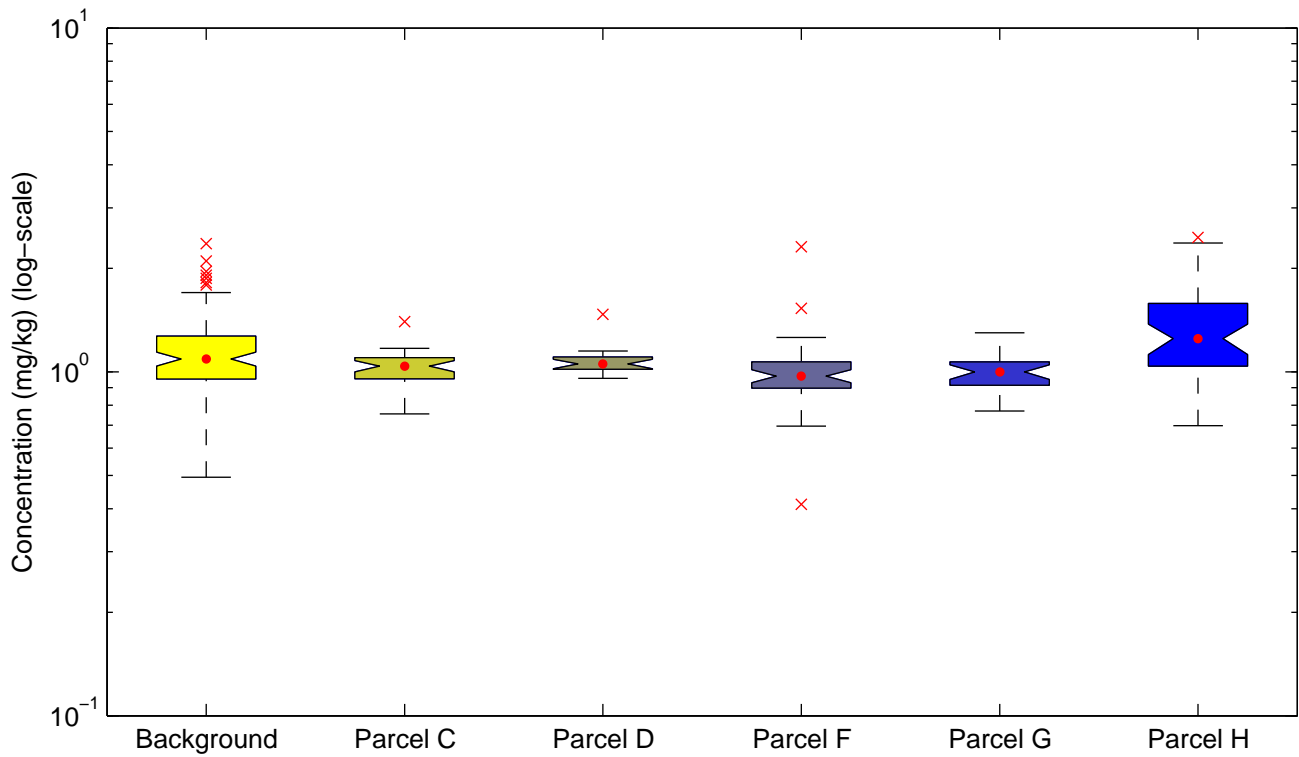


Figure 3-2. Background vs. Site Boxplots
Ra-228

DRAFT

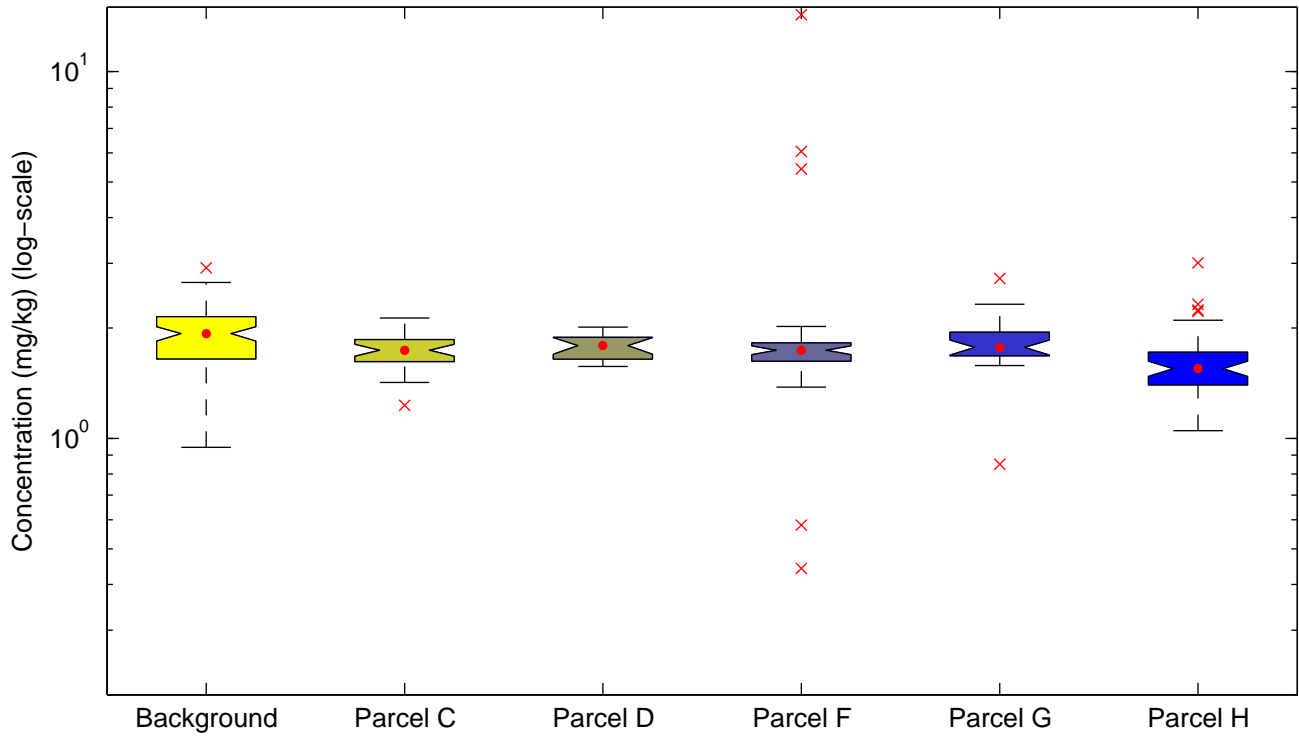
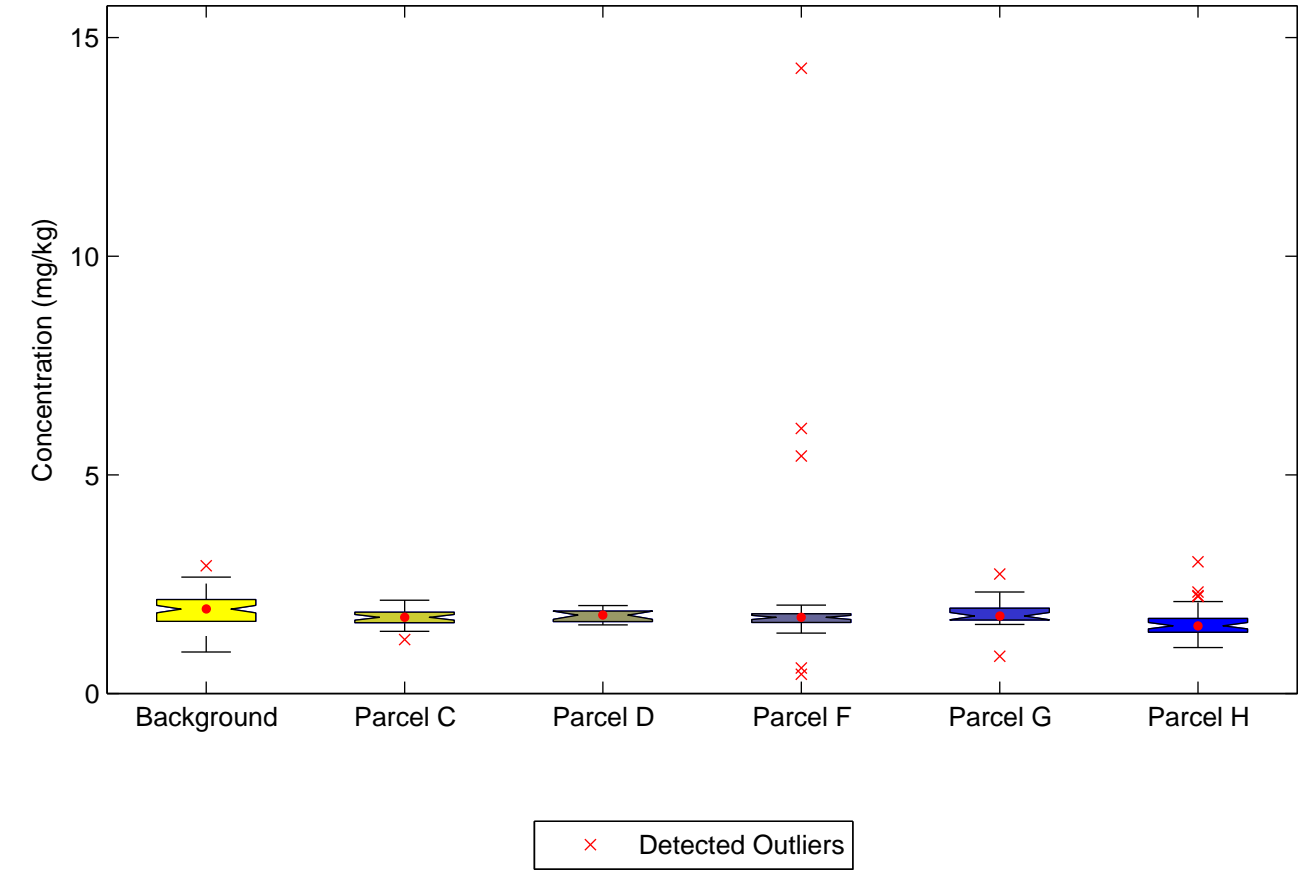
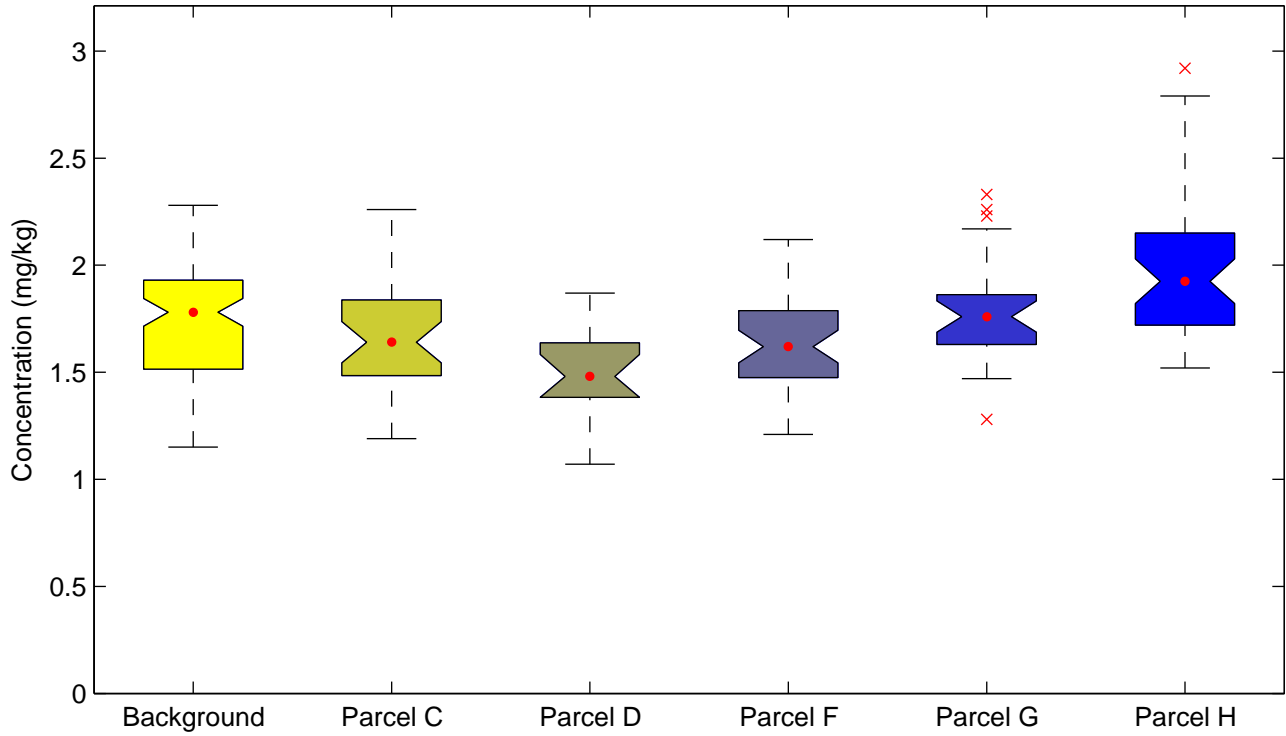


Figure 3-3. Background vs. Site Boxplots
Th-228

DRAFT



x Detected Outliers

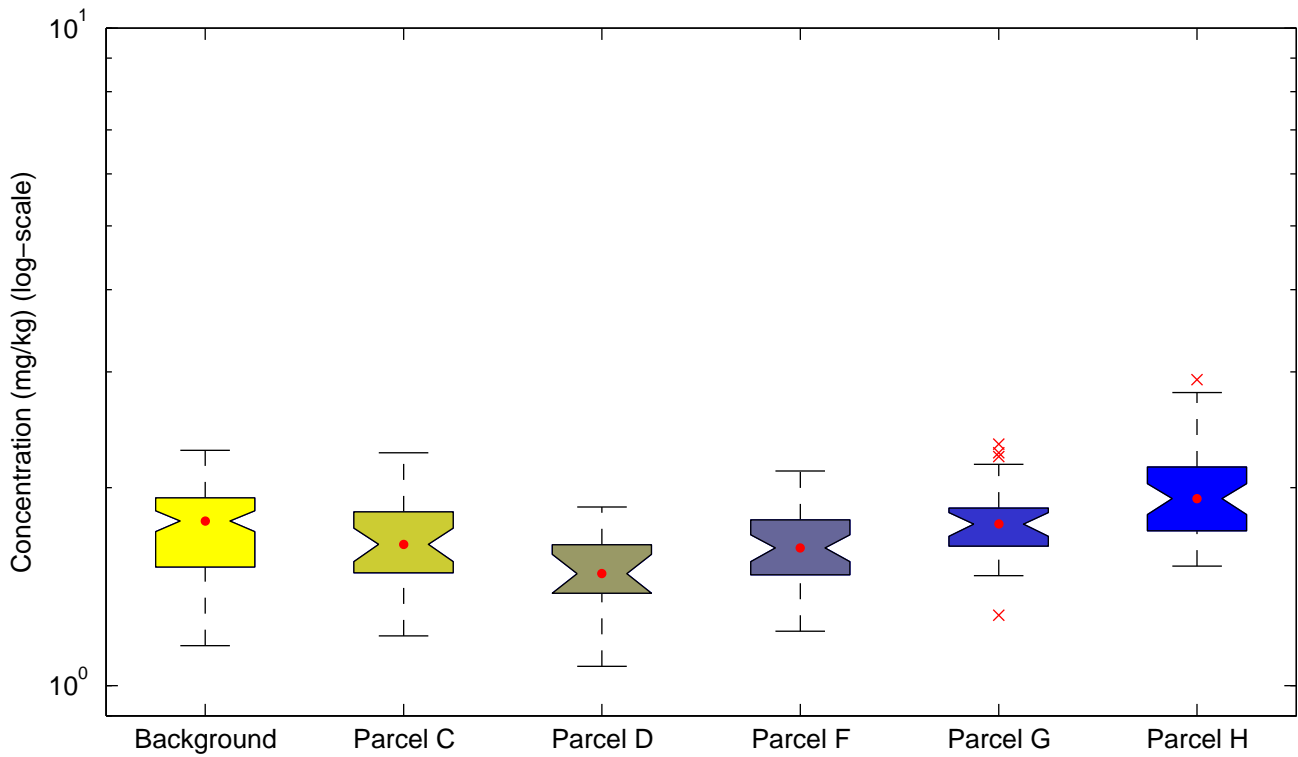
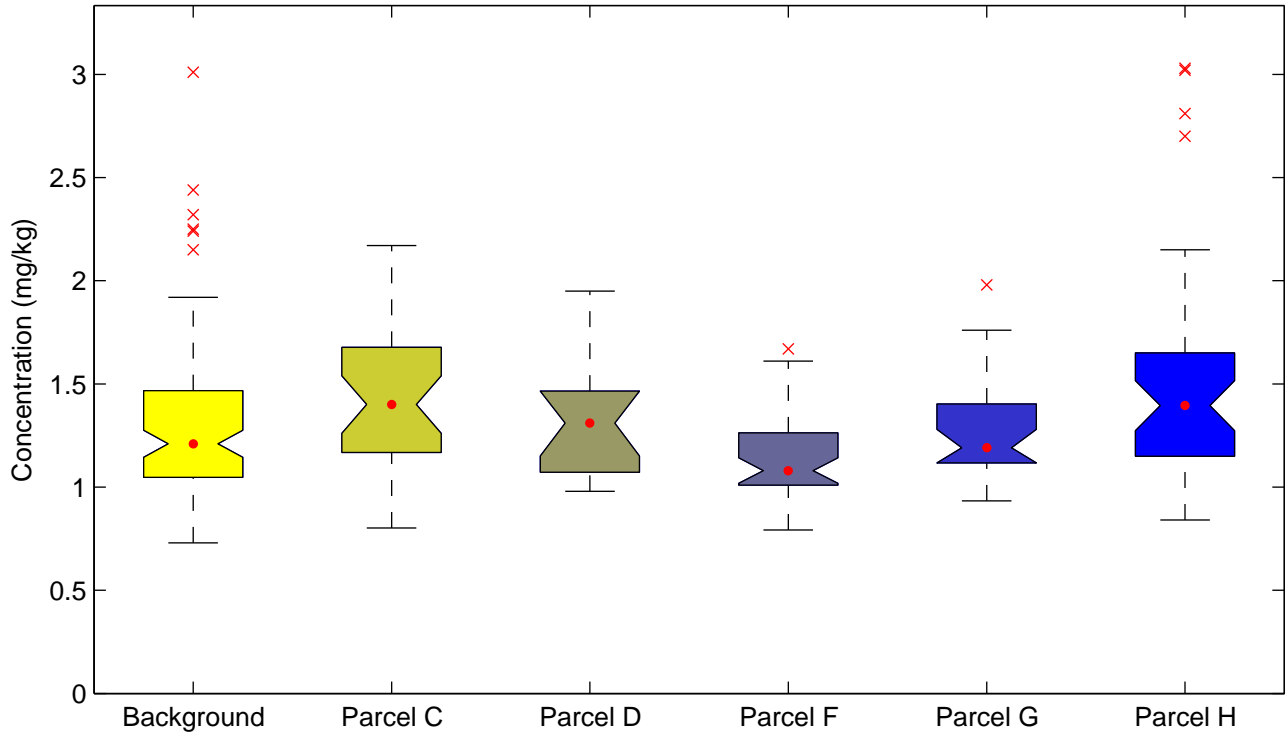


Figure 3-4. Background vs. Site Boxplots
Th-230

DRAFT



x Detected Outliers

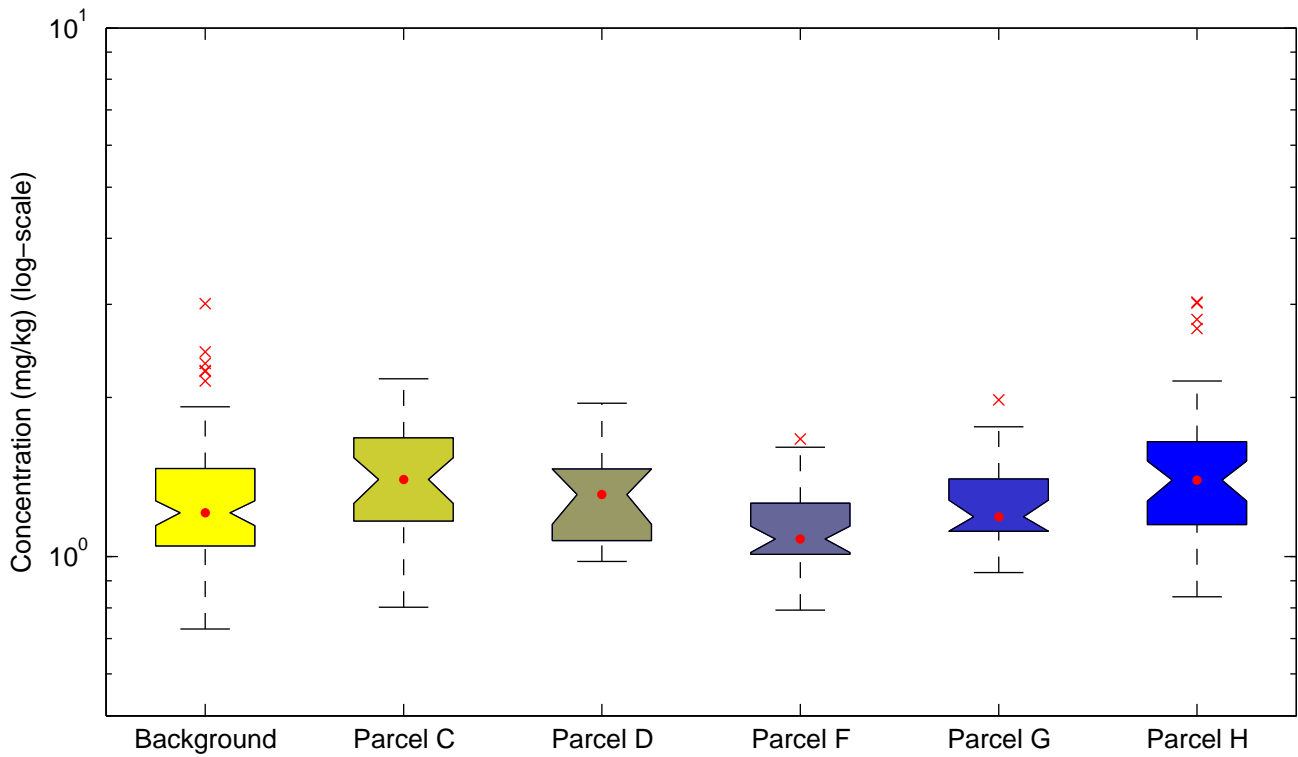
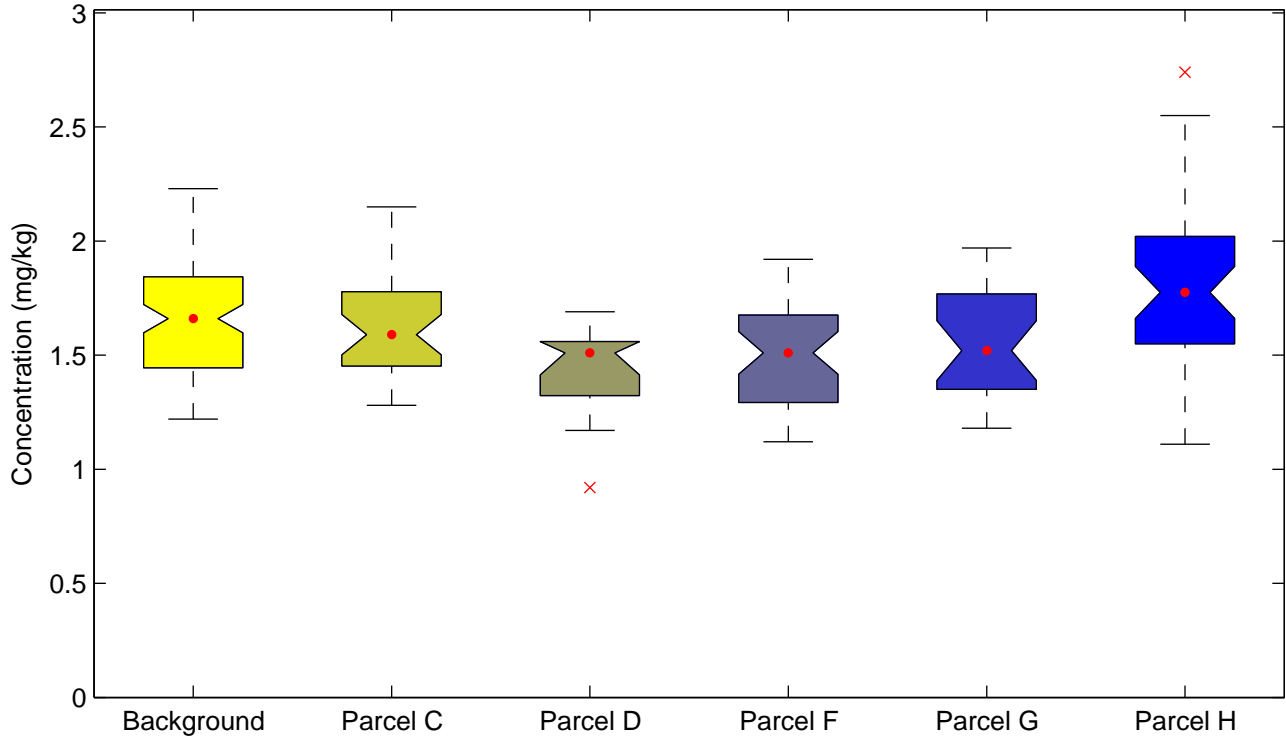


Figure 3-5. Background vs. Site Boxplots
Th-232

DRAFT



x Detected Outliers

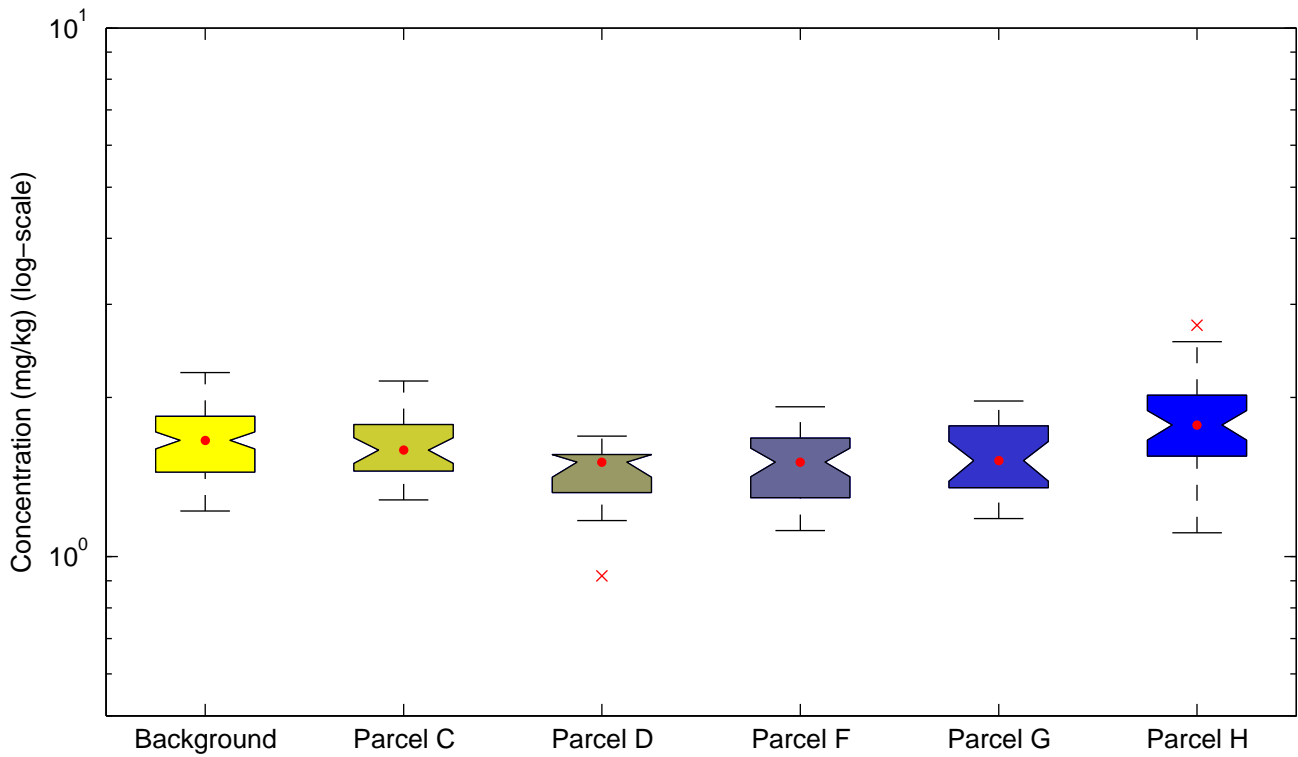
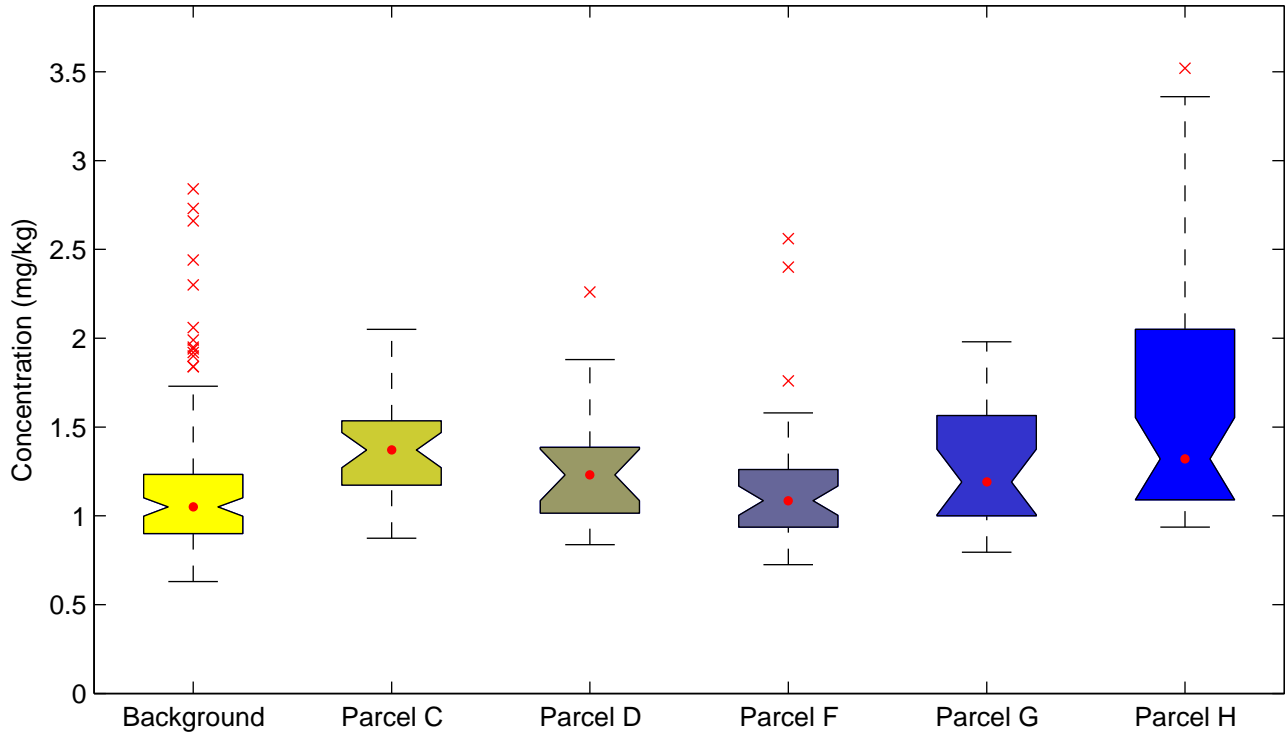


Figure 3-6. Background vs. Site Boxplots
U-234

DRAFT



x Detected Outliers

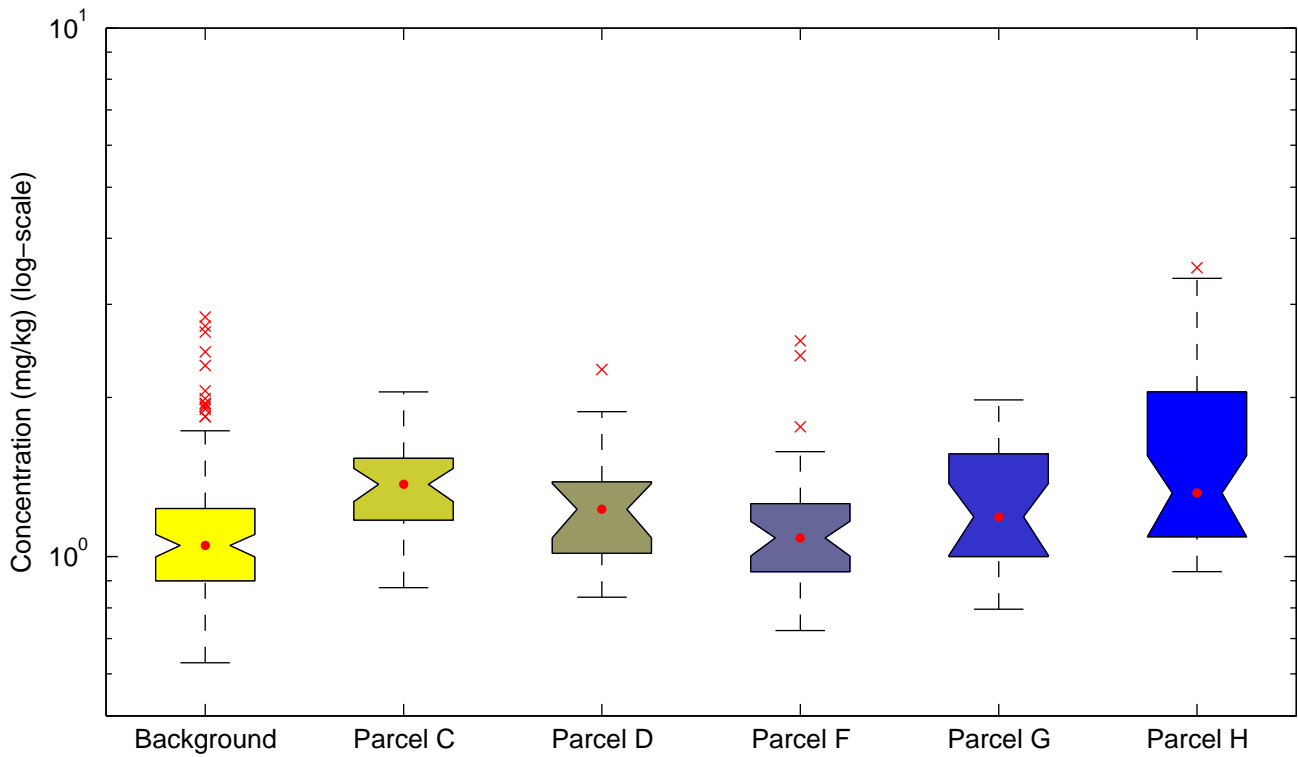


Figure 3-7. Background vs. Site Boxplots
U-235

DRAFT

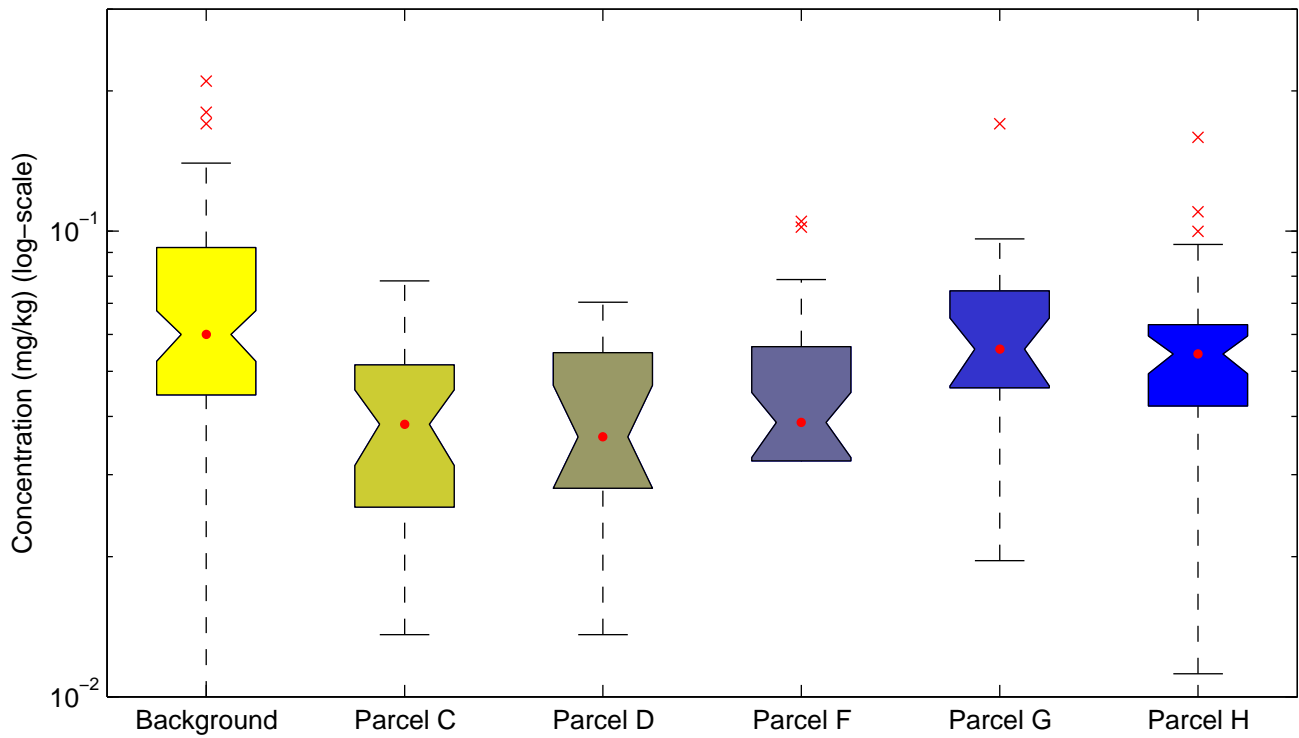
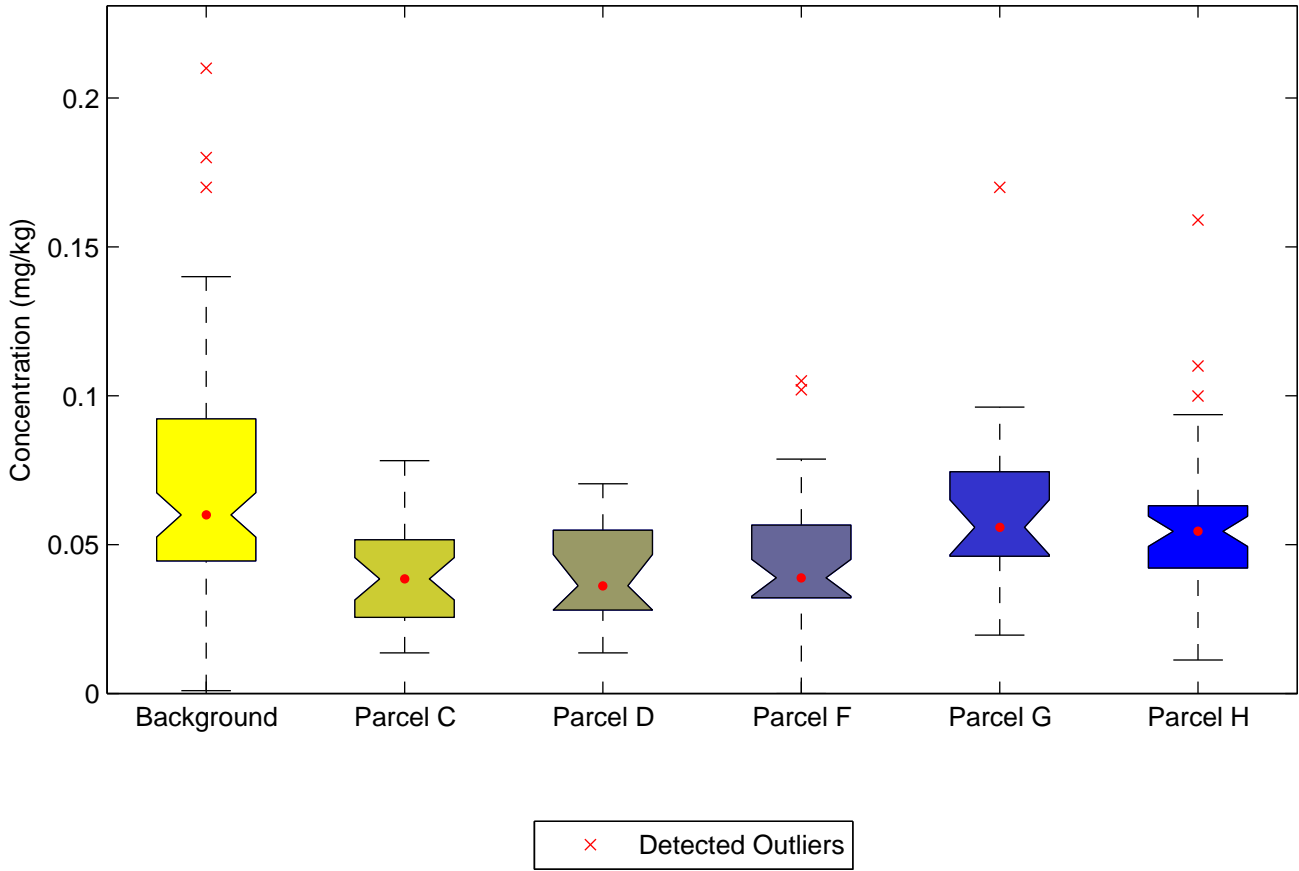
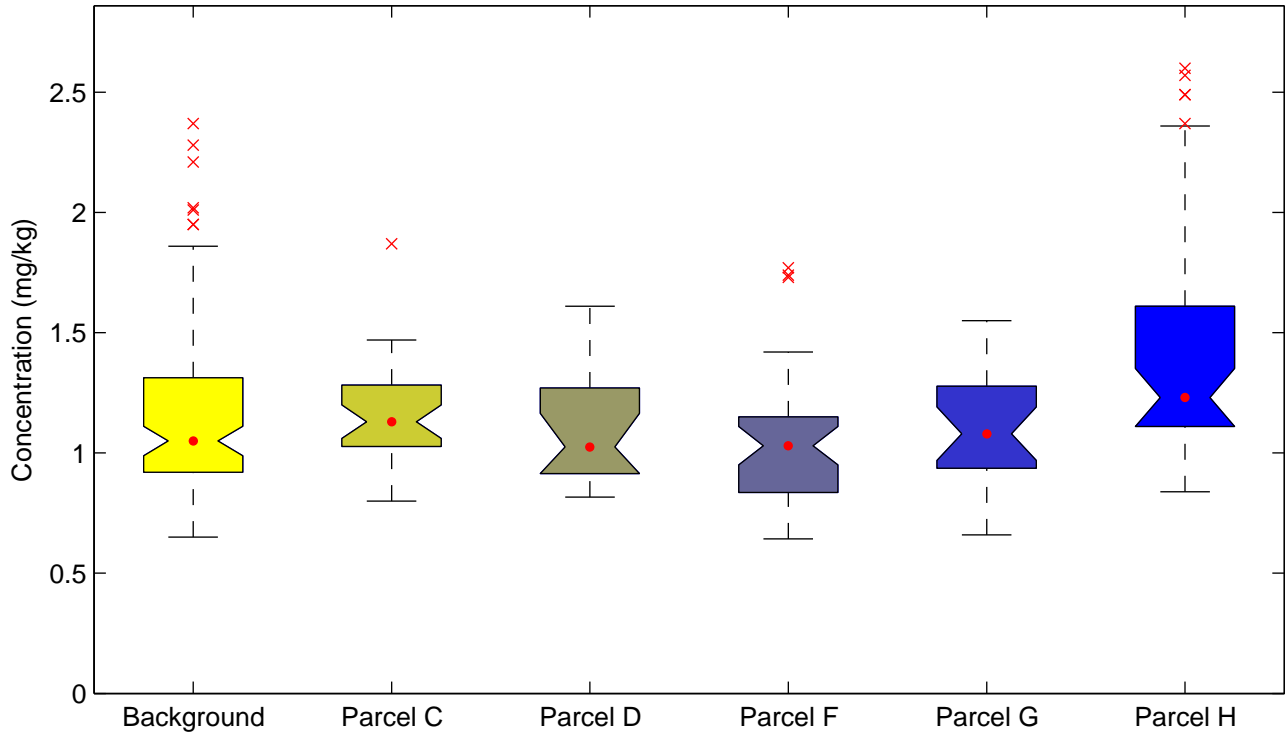


Figure 3–8. Background vs. Site Boxplots
U-238

DRAFT



x Detected Outliers

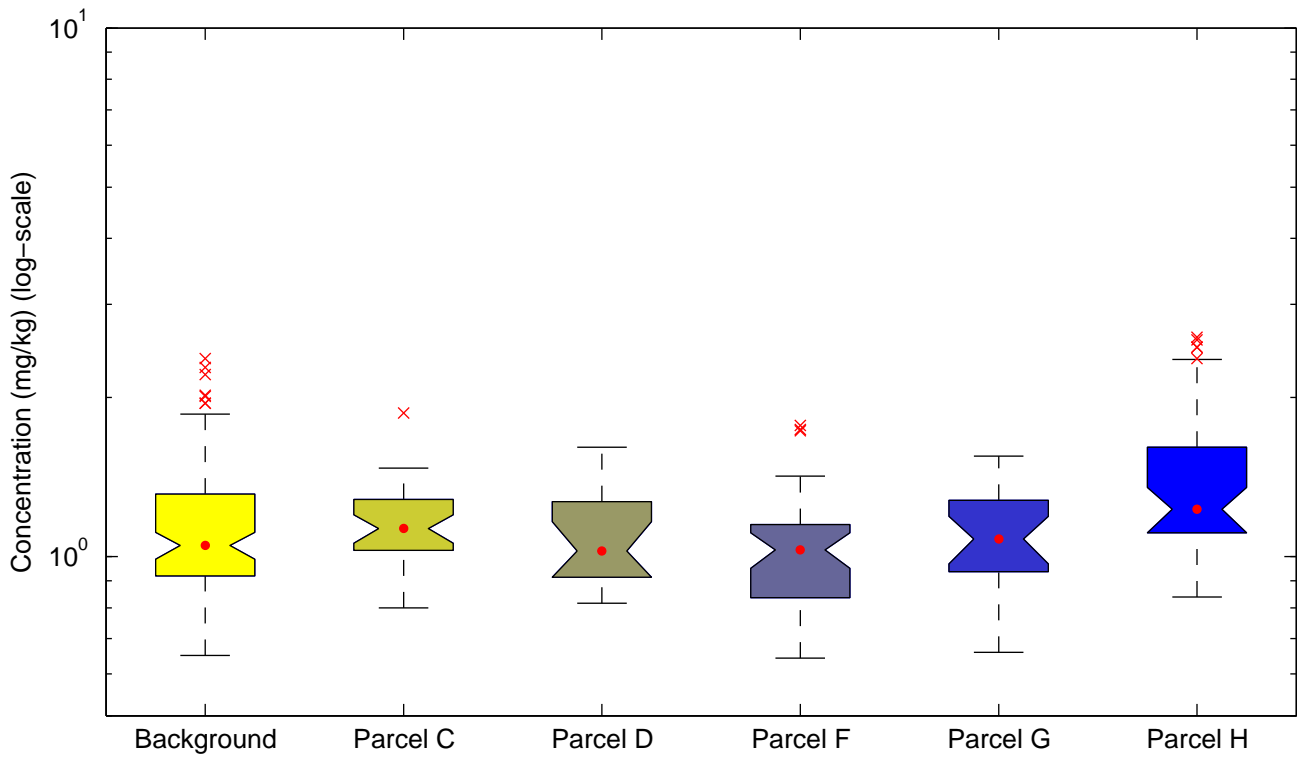


Figure 4-1A. Normal Q-Q Plots

DRAFT

Ra-226

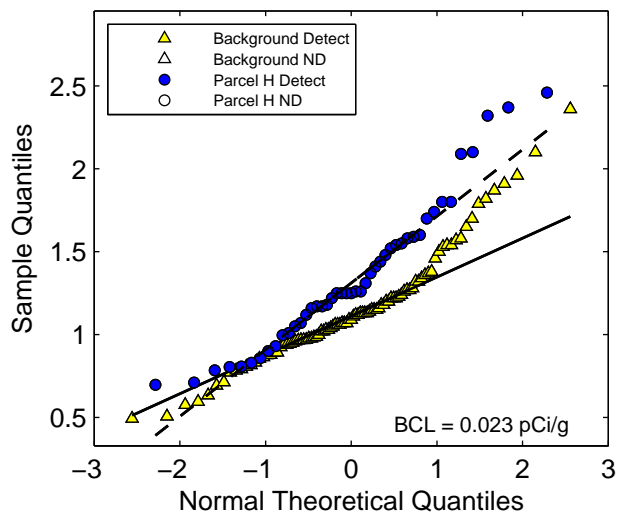
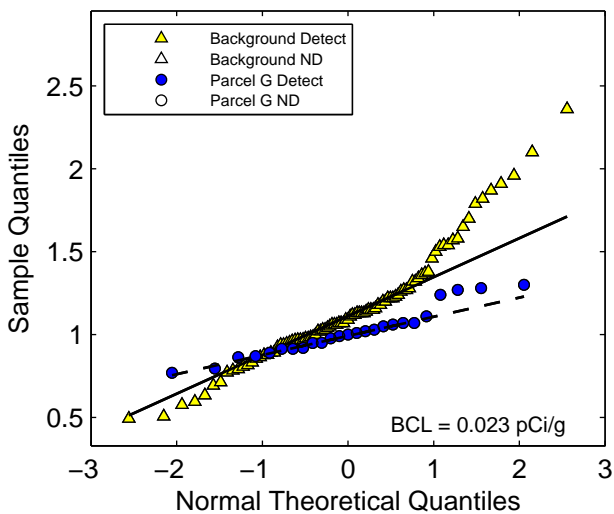
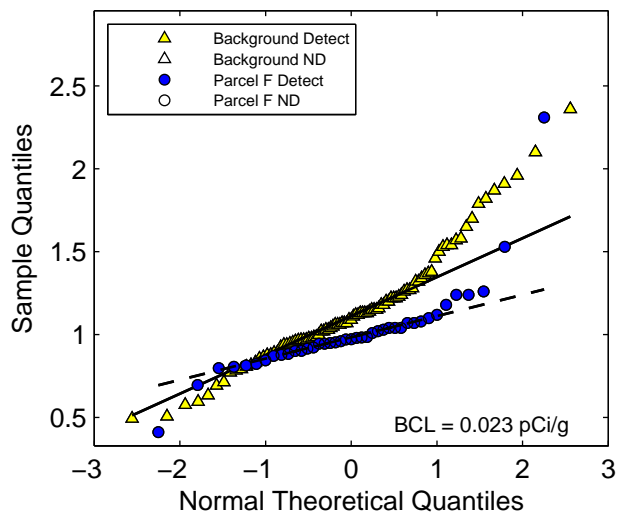
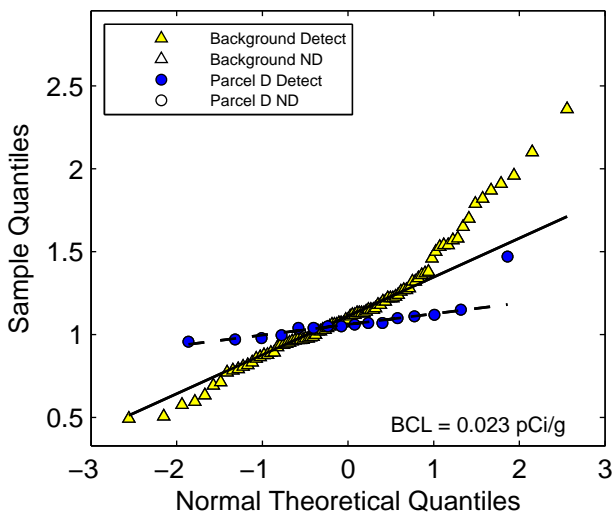
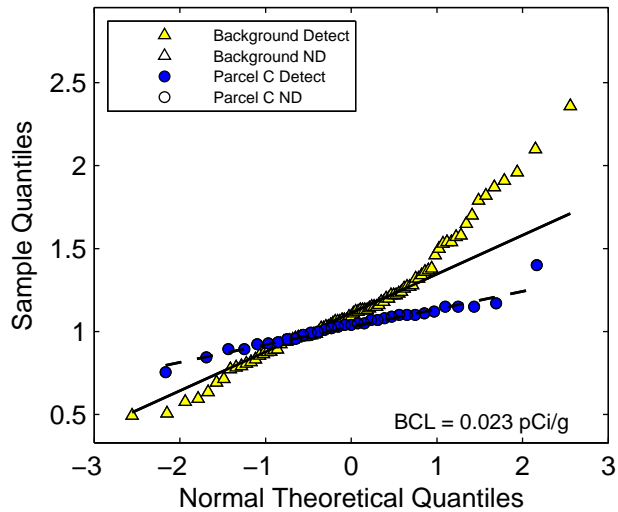
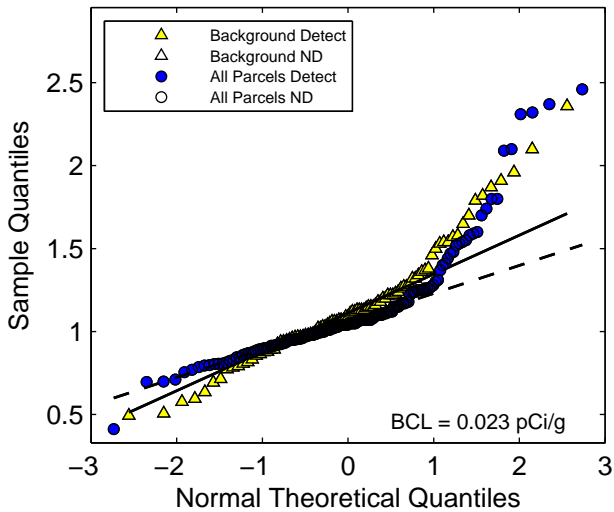


Figure 4-1B. Lognormal Q-Q Plots
Ra-226

DRAFT

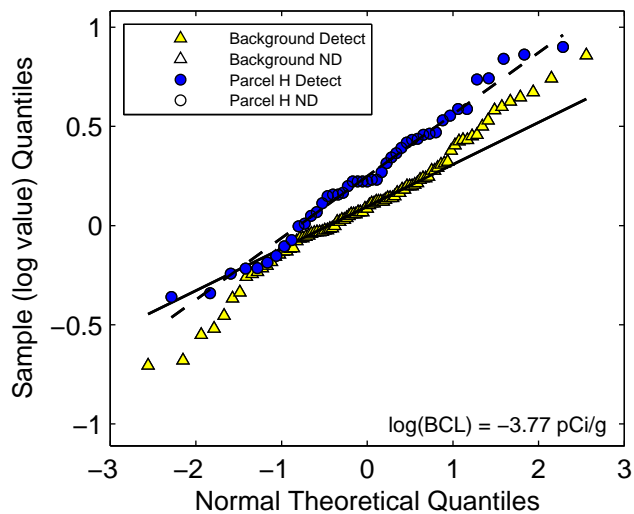
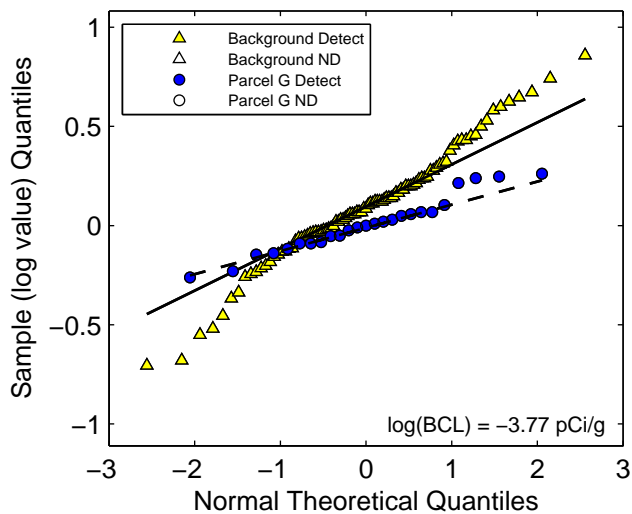
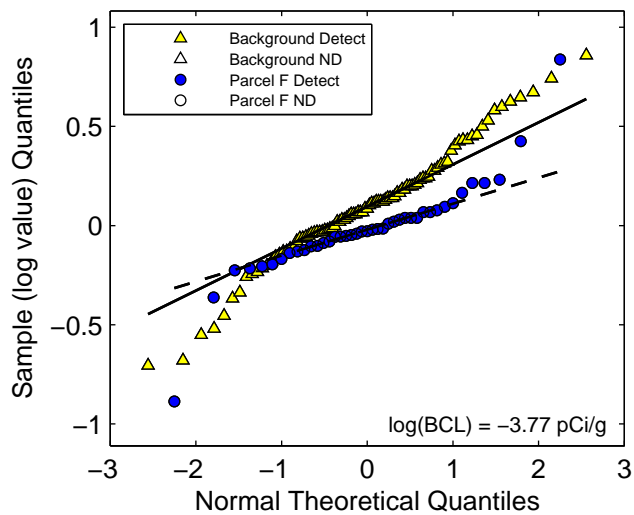
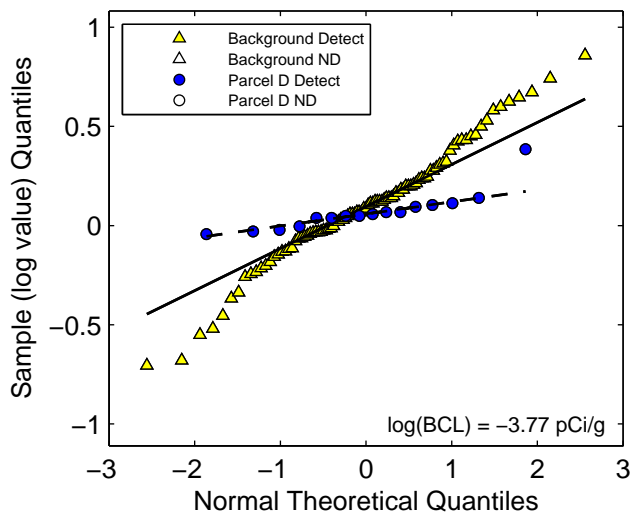
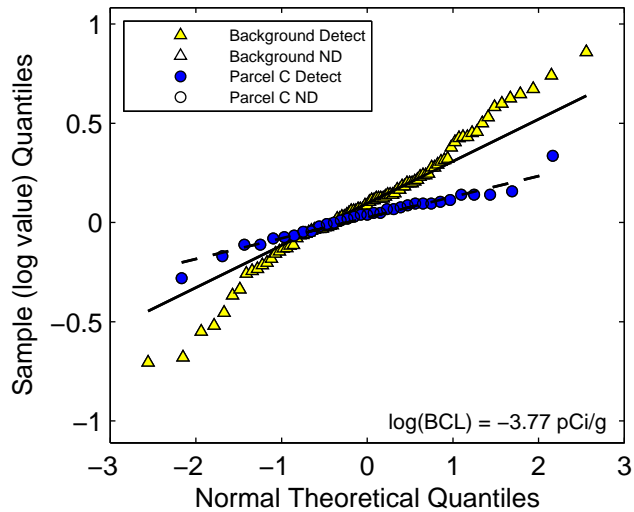
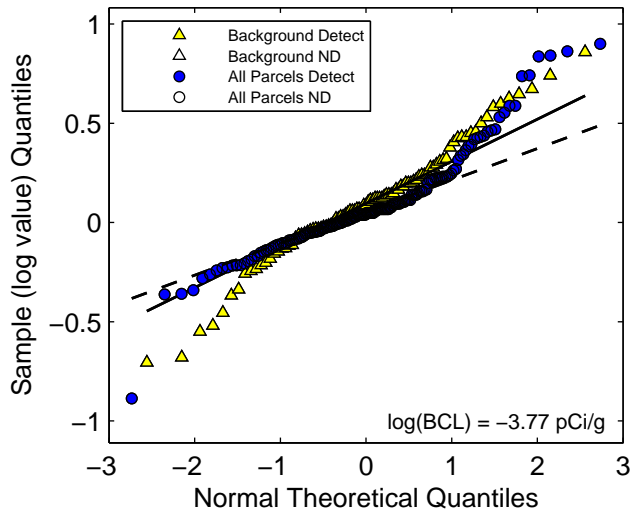


Figure 4-2A. Normal Q-Q Plots

DRAFT

Ra-228

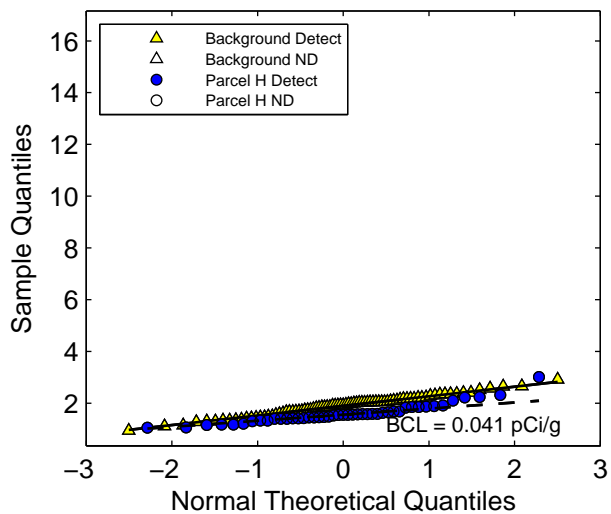
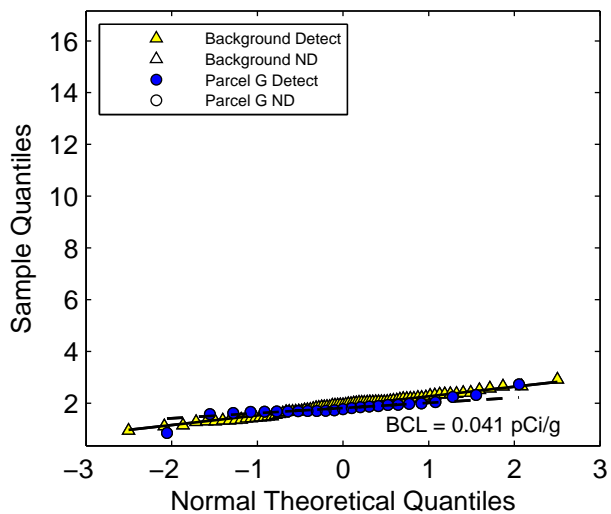
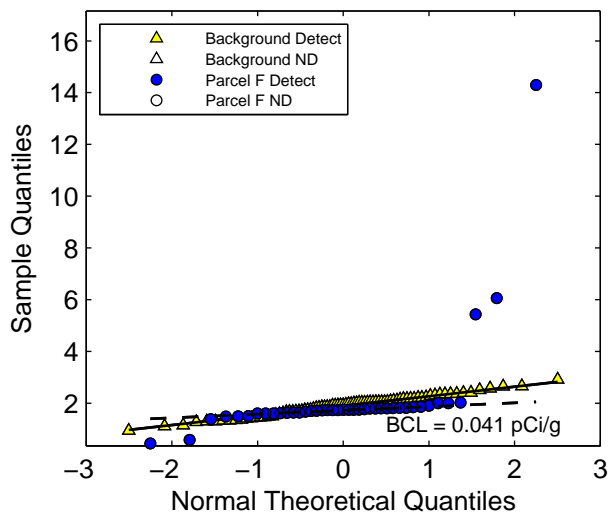
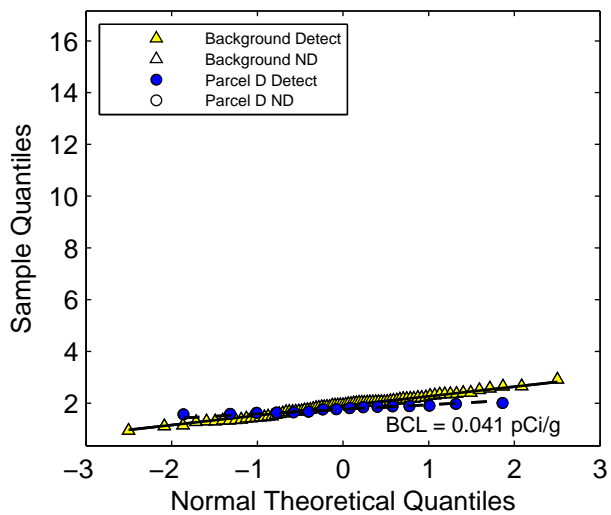
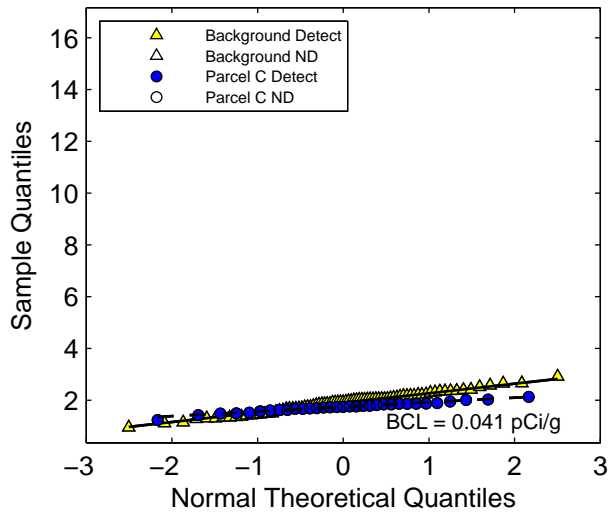
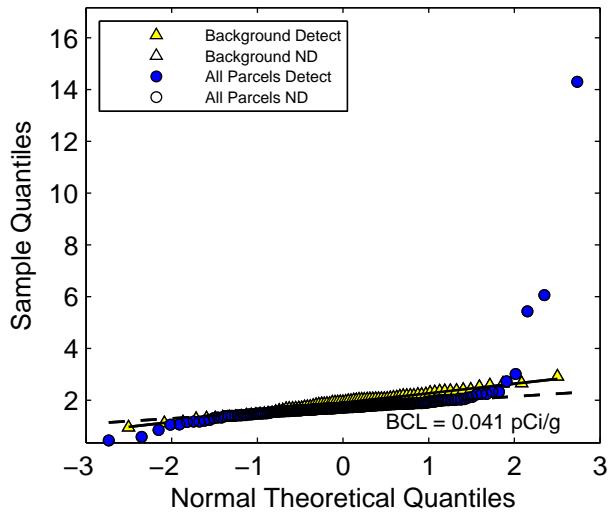


Figure 4-2B. Lognormal Q-Q Plots
Ra-228

DRAFT

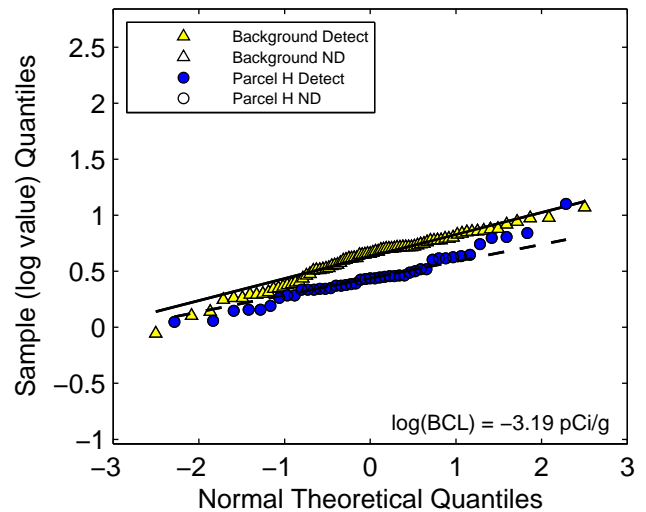
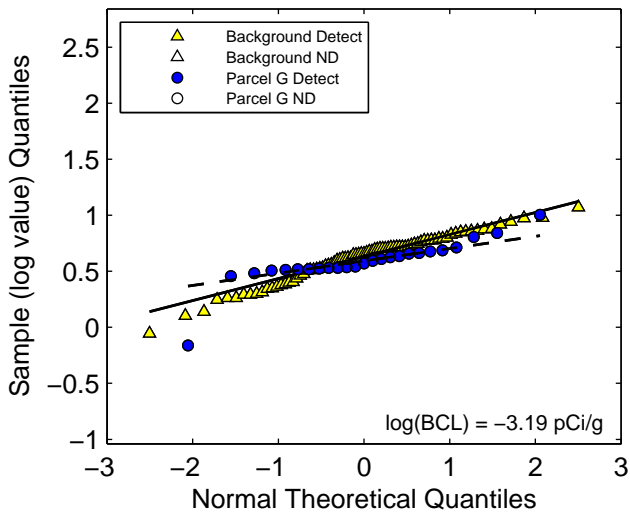
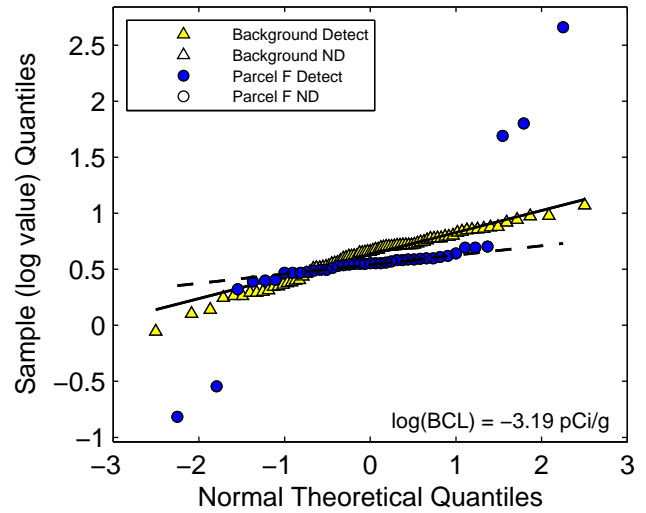
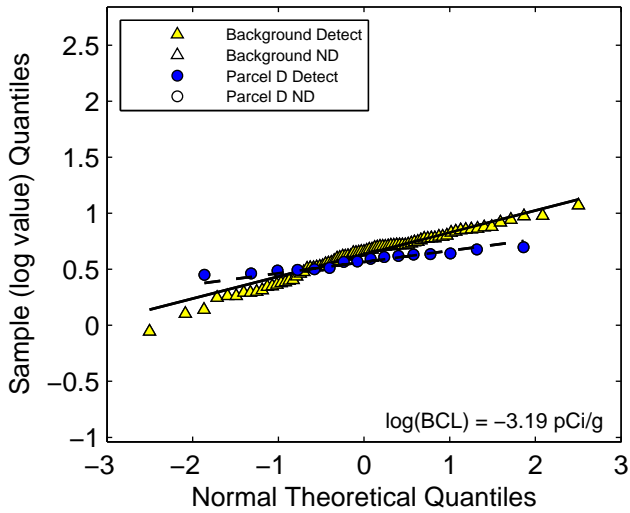
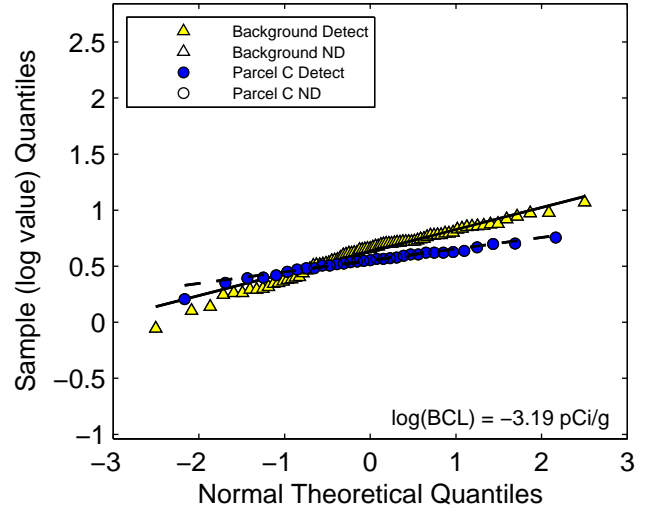
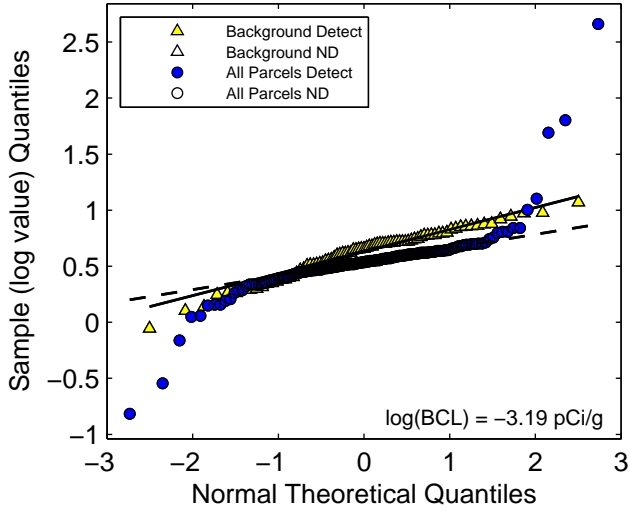


Figure 4-3A. Normal Q-Q Plots

DRAFT

Th-228

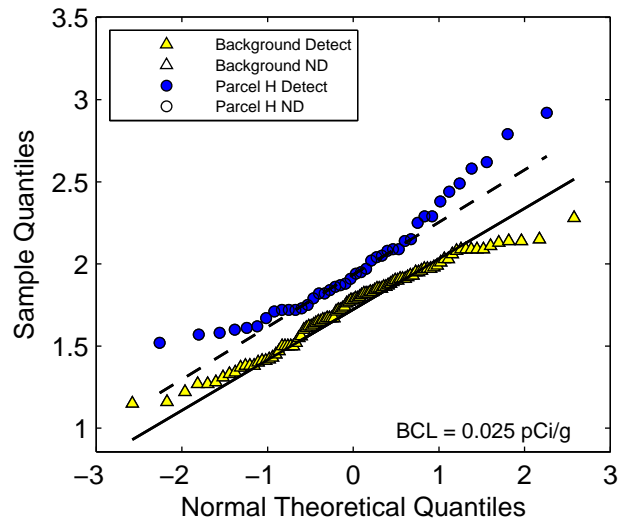
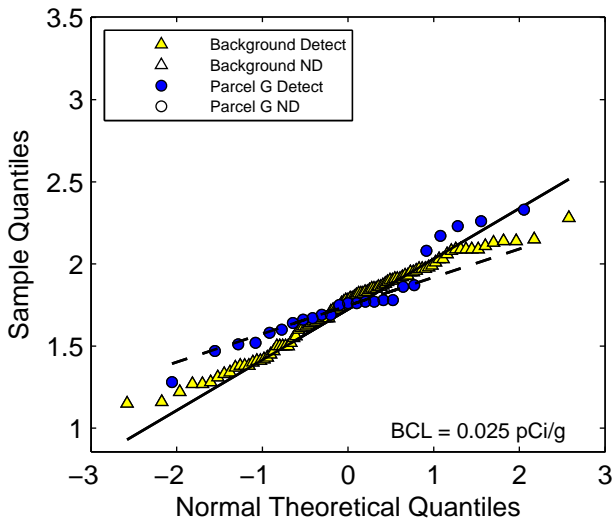
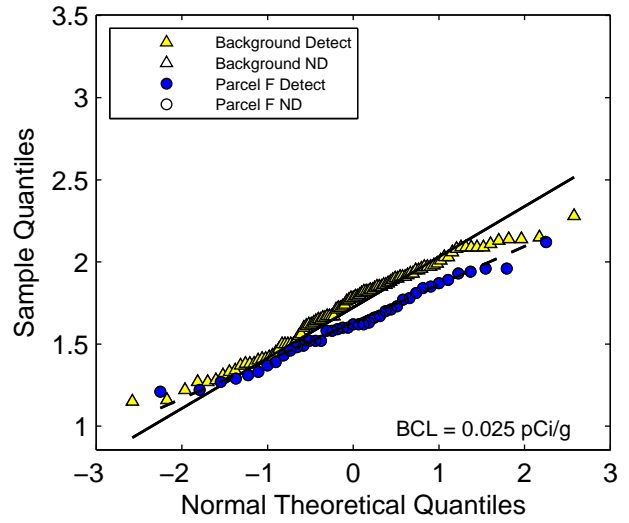
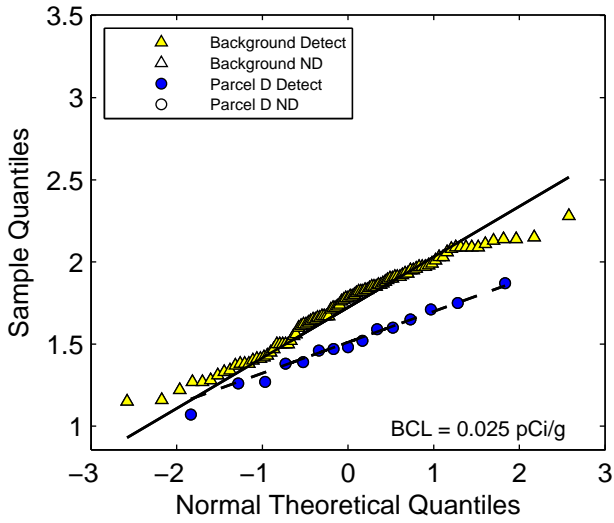
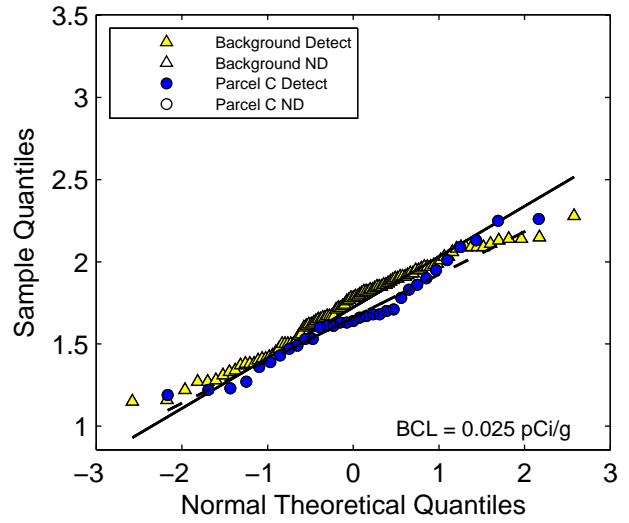
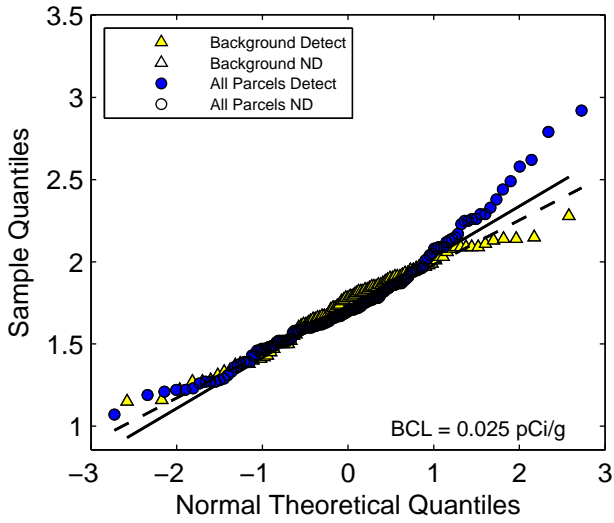


Figure 4-3B. Lognormal Q-Q Plots
Th-228

DRAFT

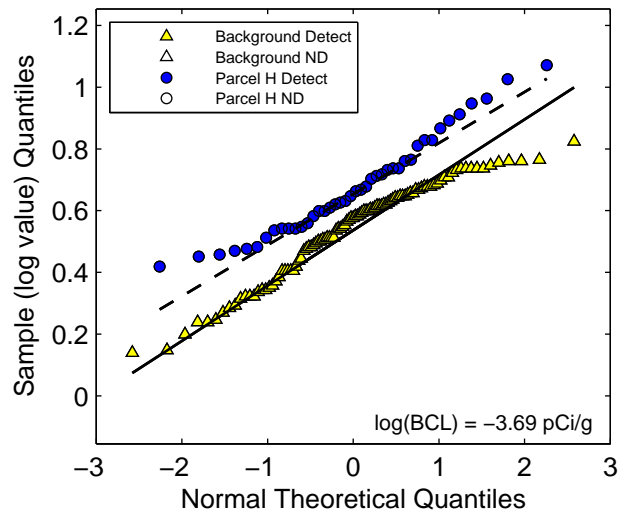
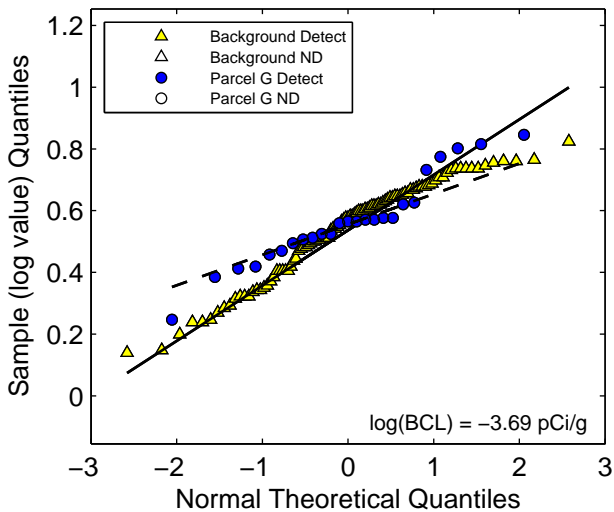
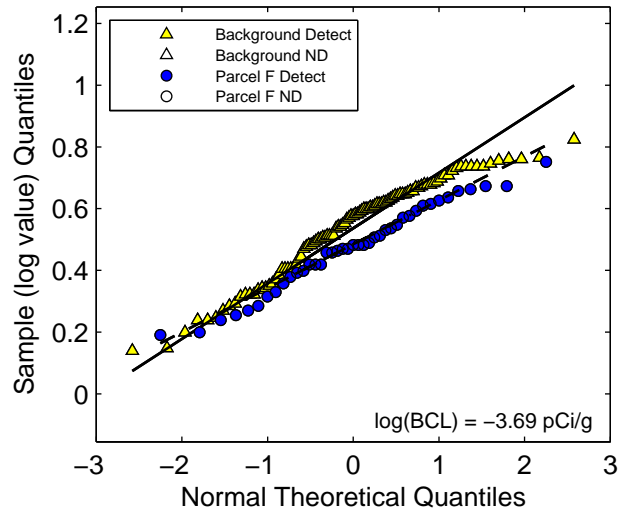
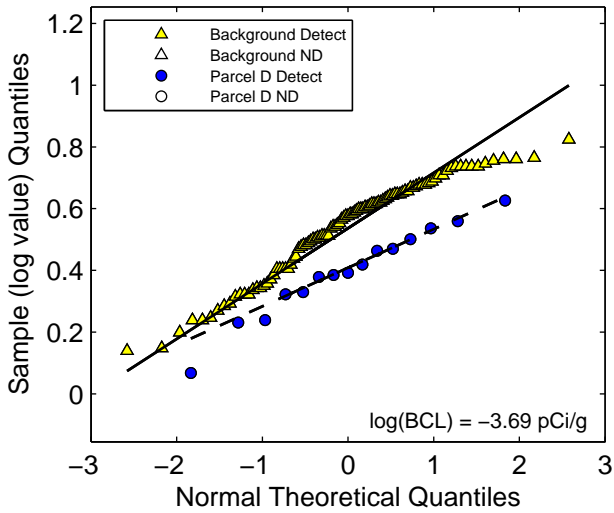
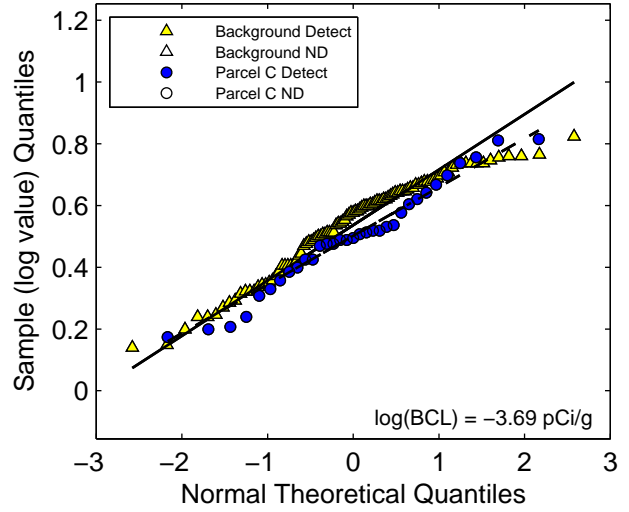
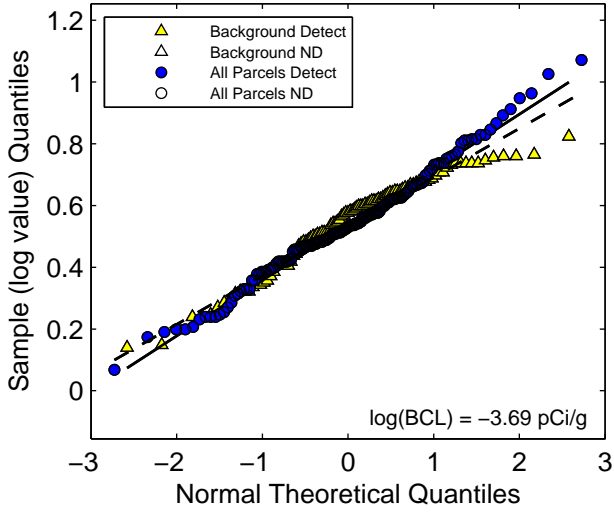


Figure 4-4A. Normal Q-Q Plots
Th-230

DRAFT

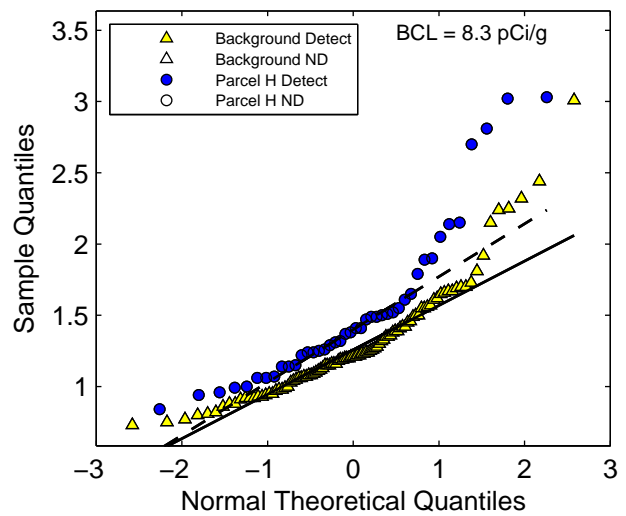
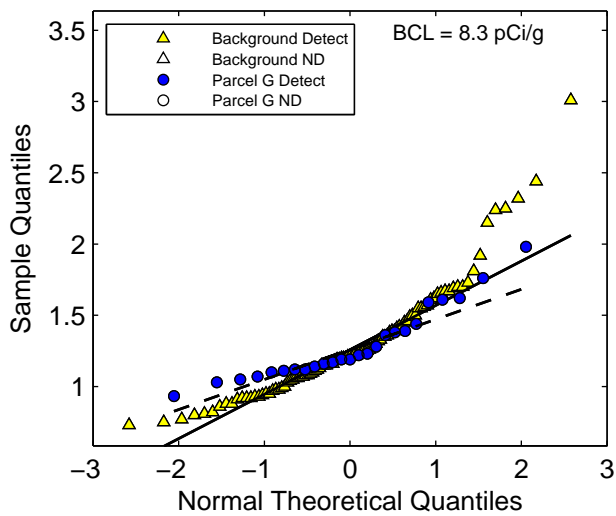
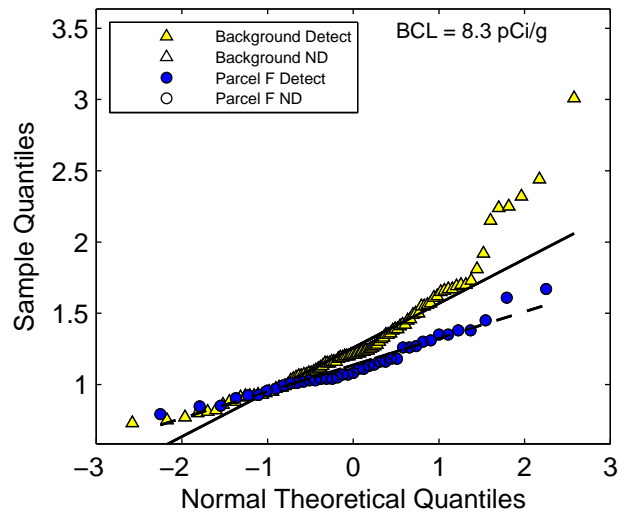
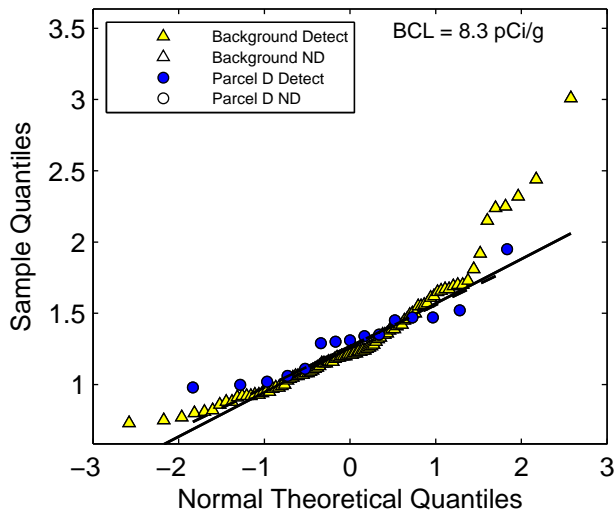
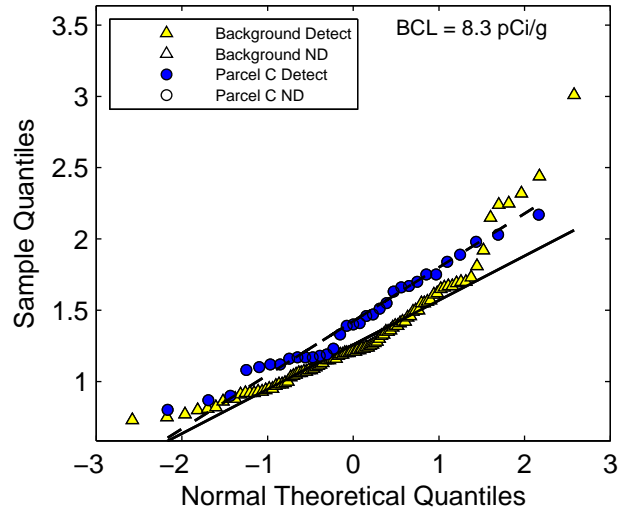
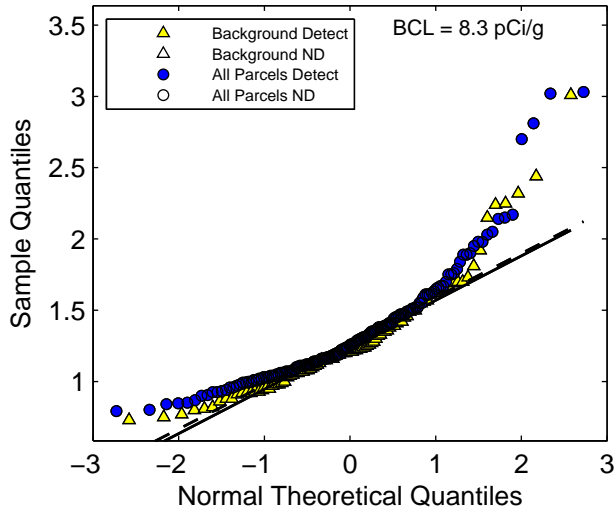


Figure 4-4B. Lognormal Q-Q Plots
Th-230

DRAFT

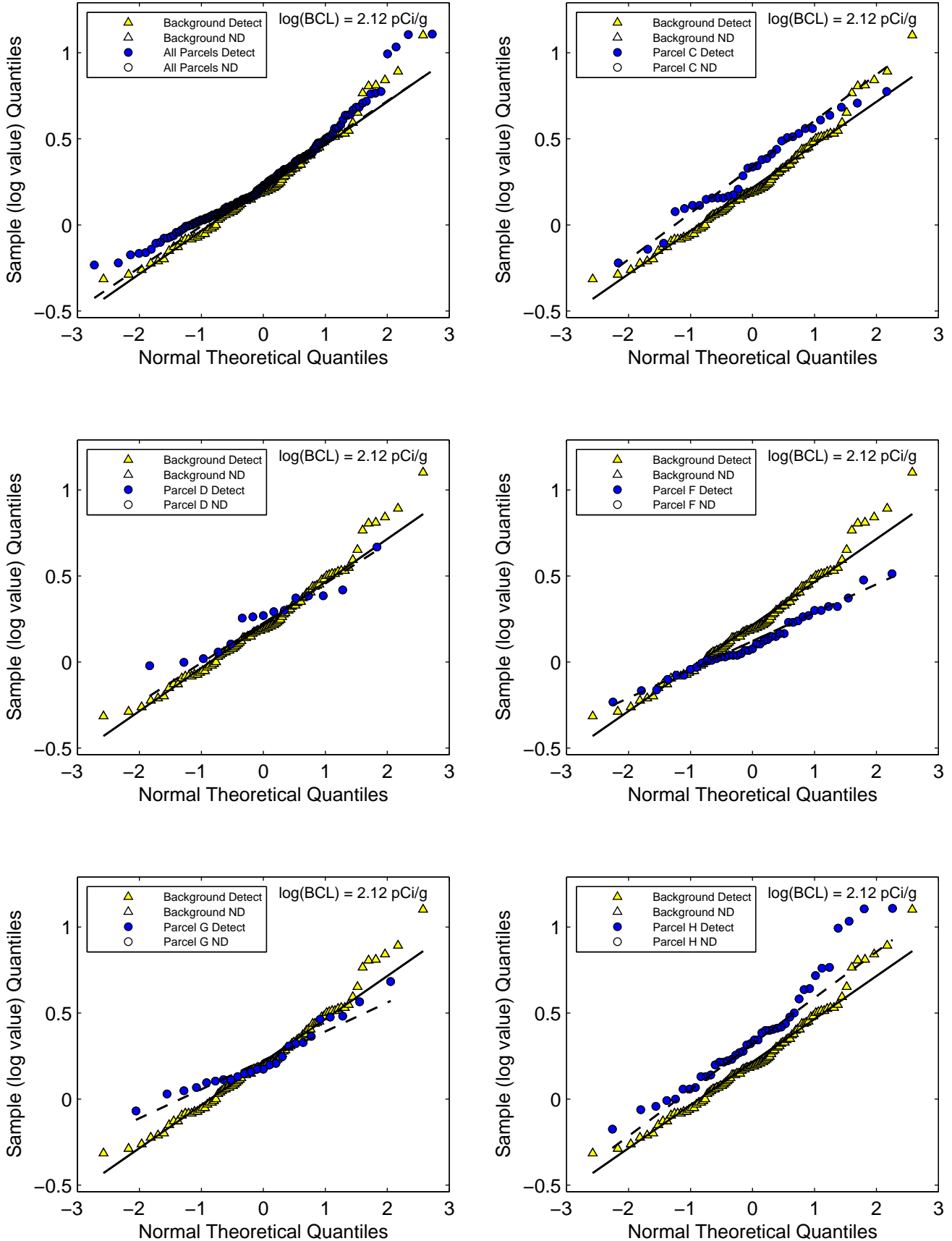


Figure 4-5A. Normal Q-Q Plots
Th-232

DRAFT

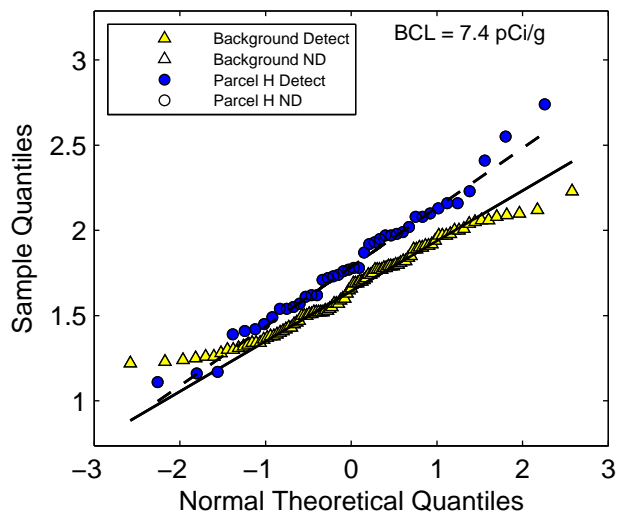
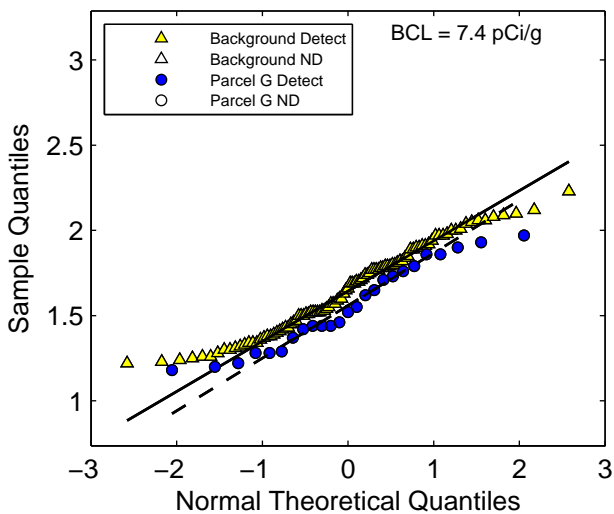
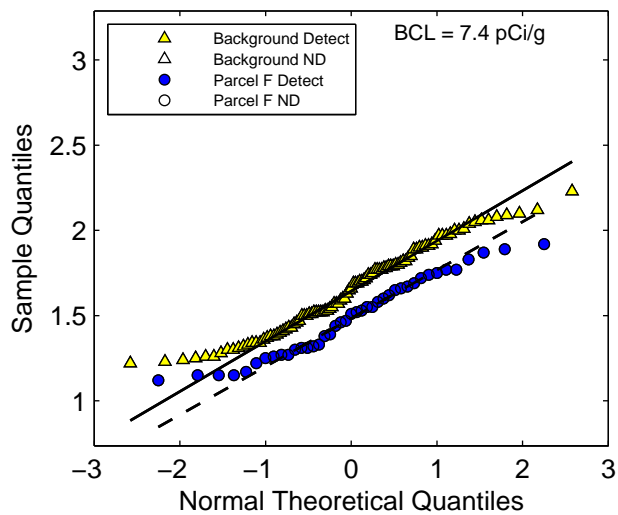
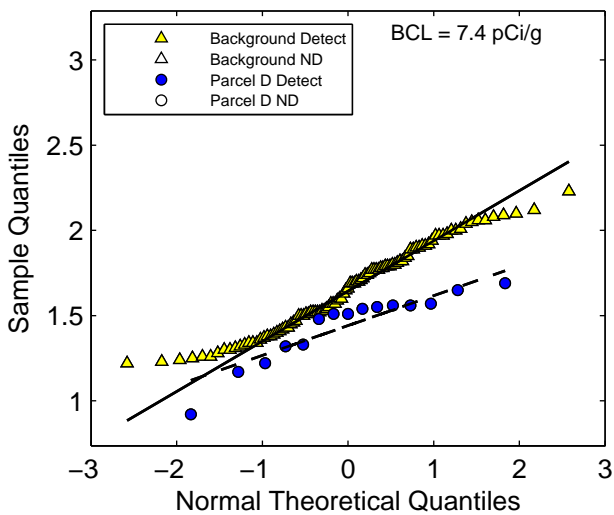
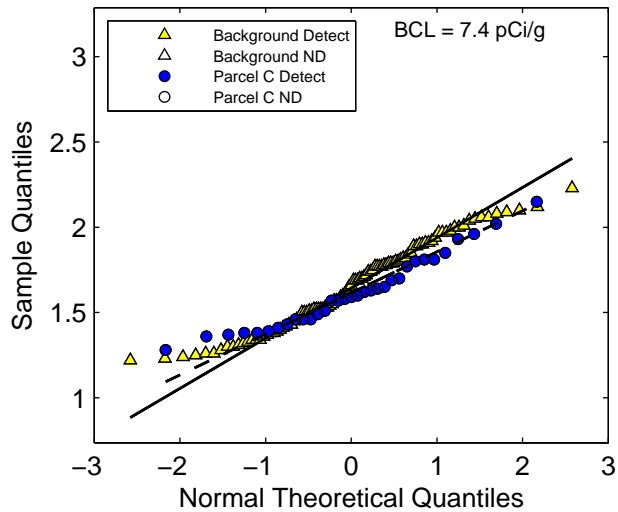
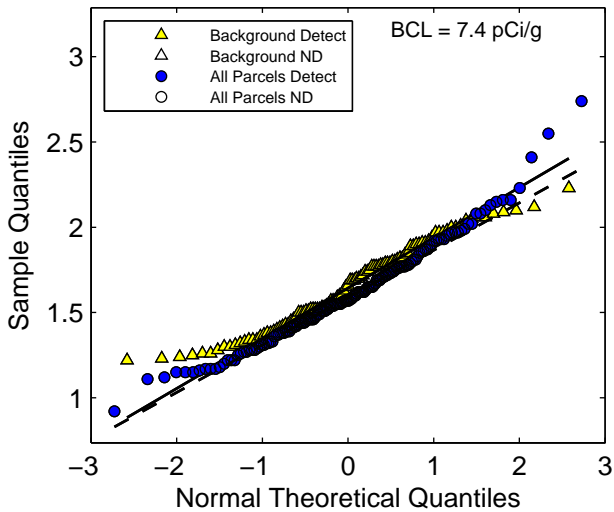


Figure 4-5B. Lognormal Q-Q Plots
Th-232

DRAFT

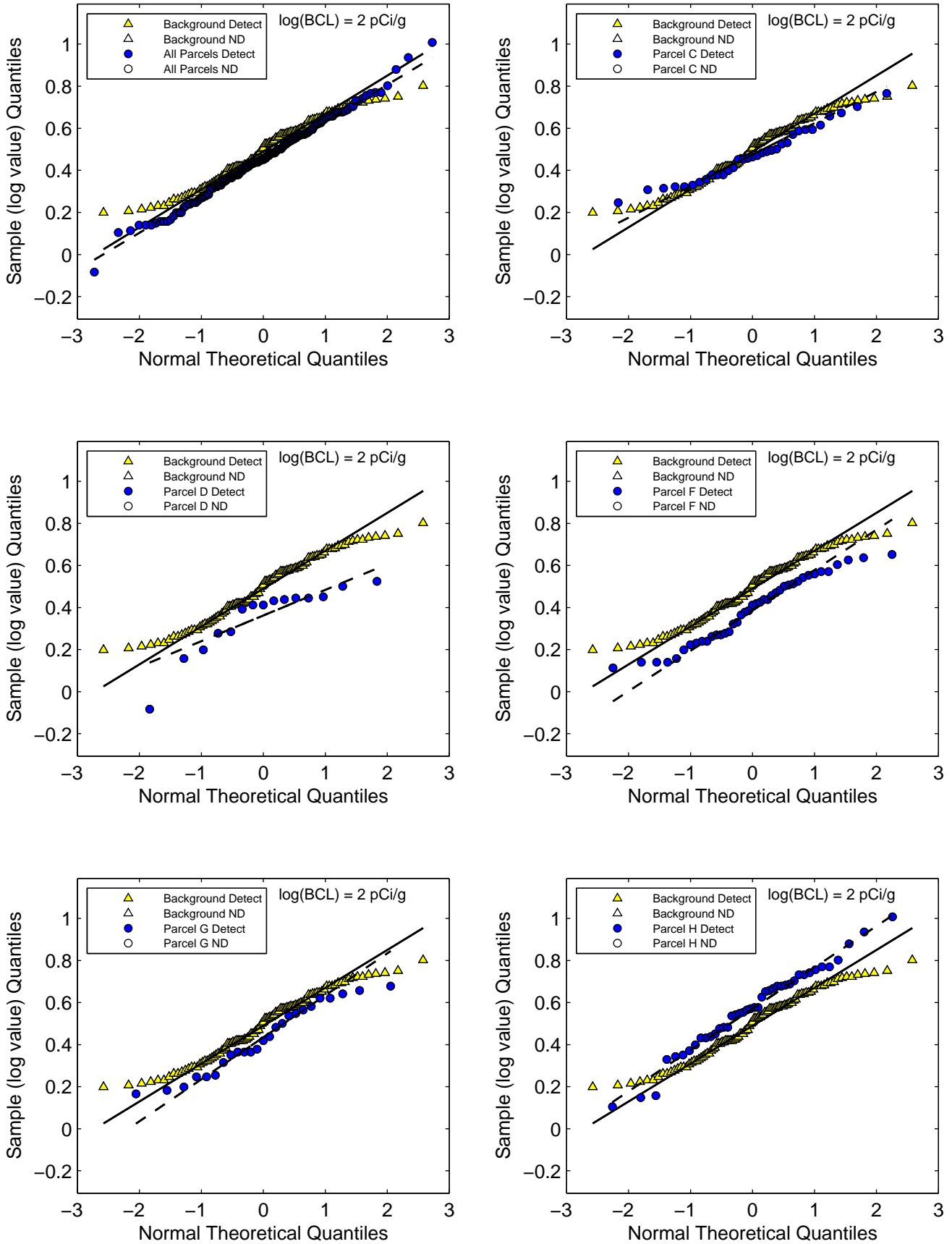


Figure 4-6A. Normal Q-Q Plots
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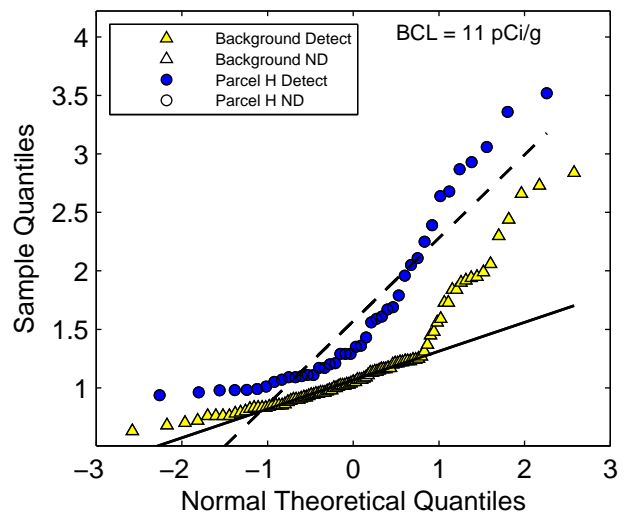
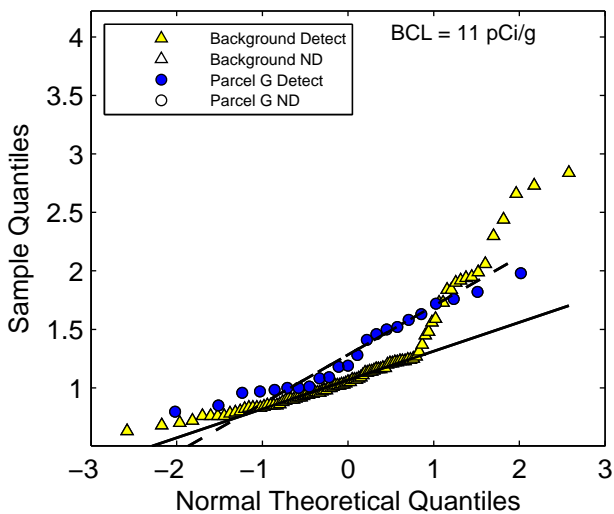
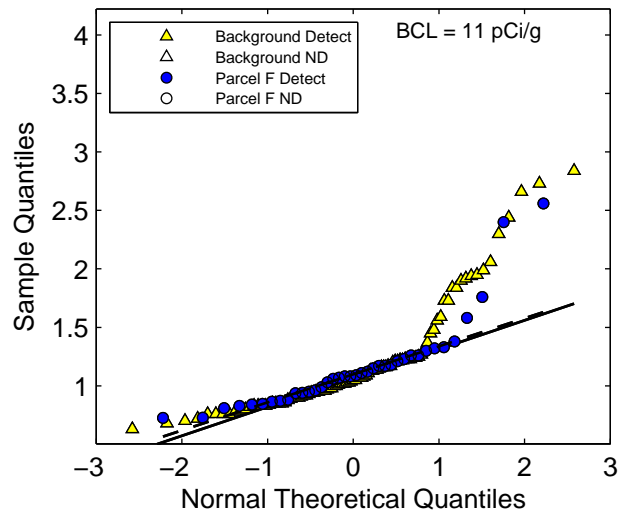
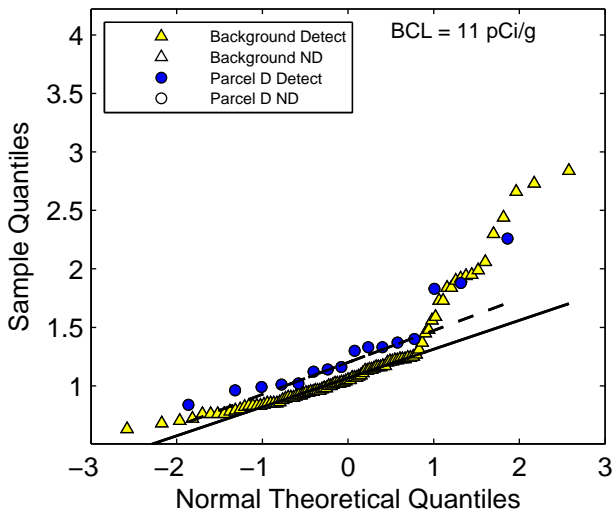
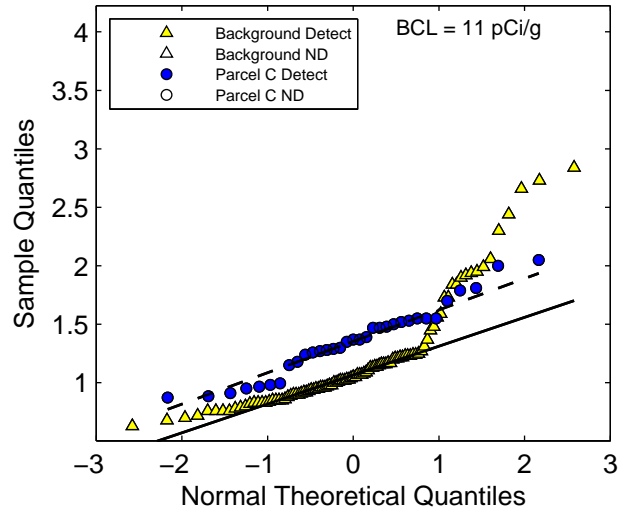
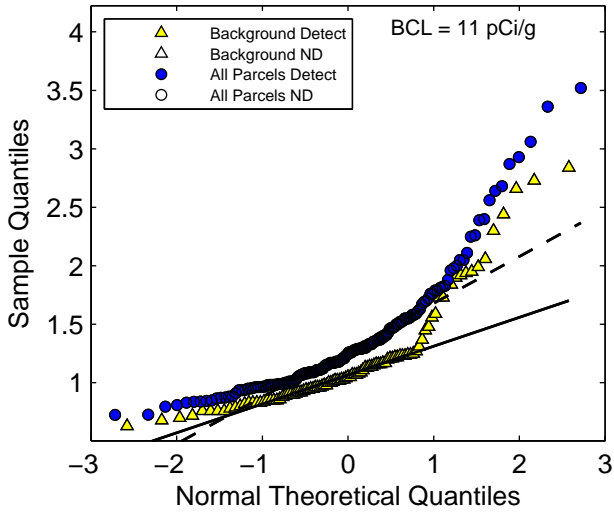


Figure 4-6B. Lognormal Q-Q Plots
U-234

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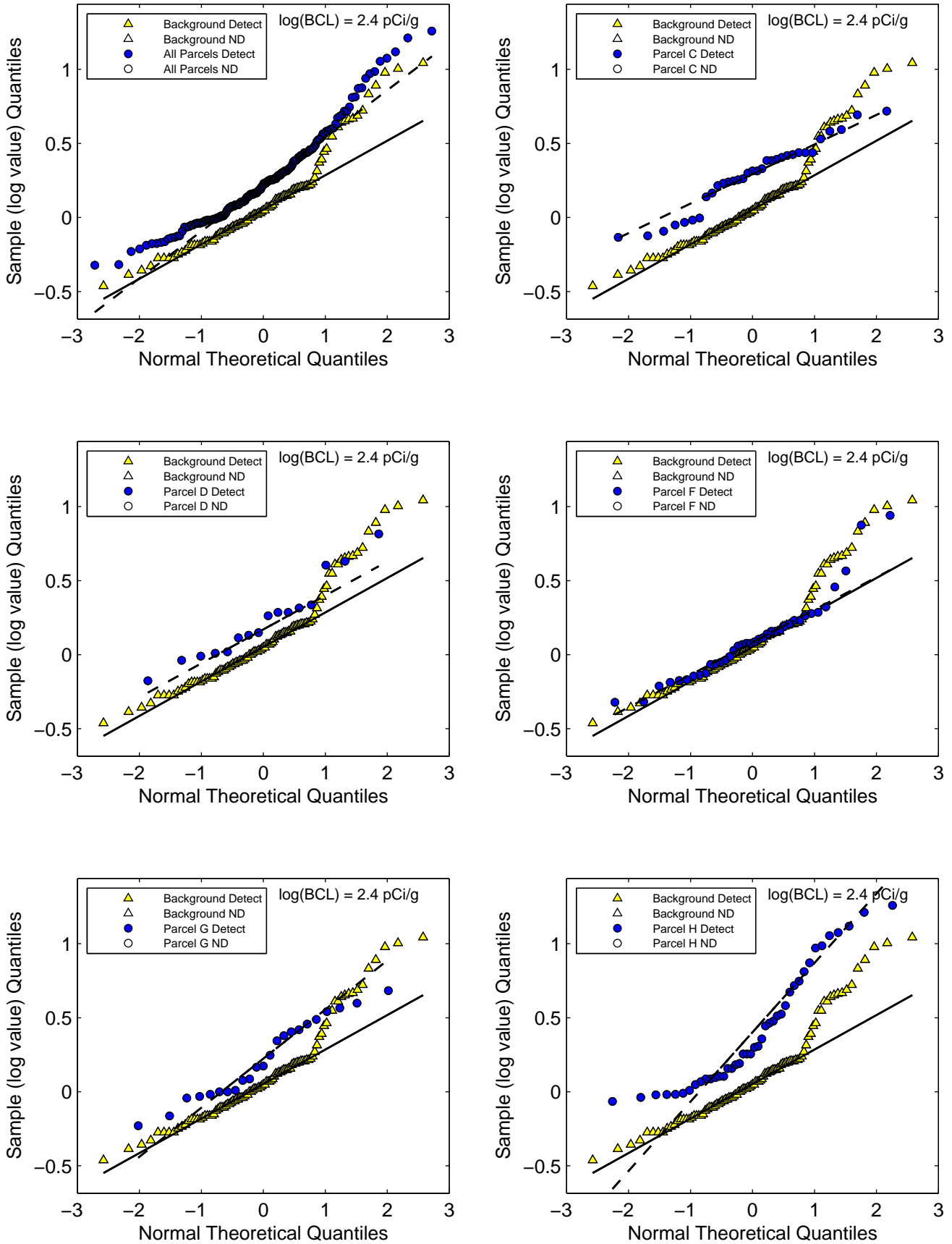


Figure 4-7A. Normal Q-Q Plots

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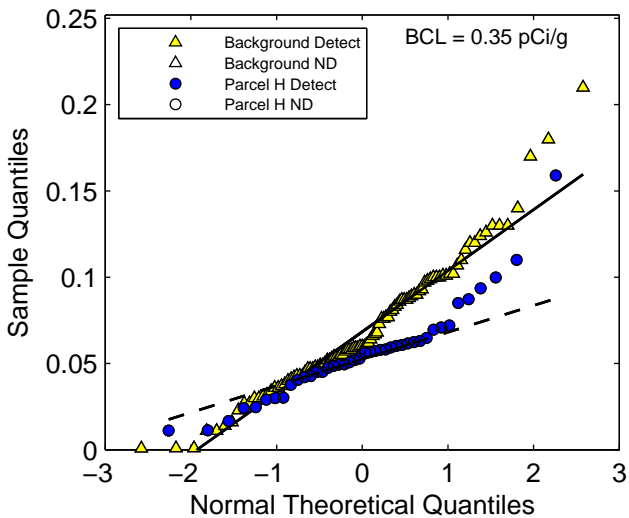
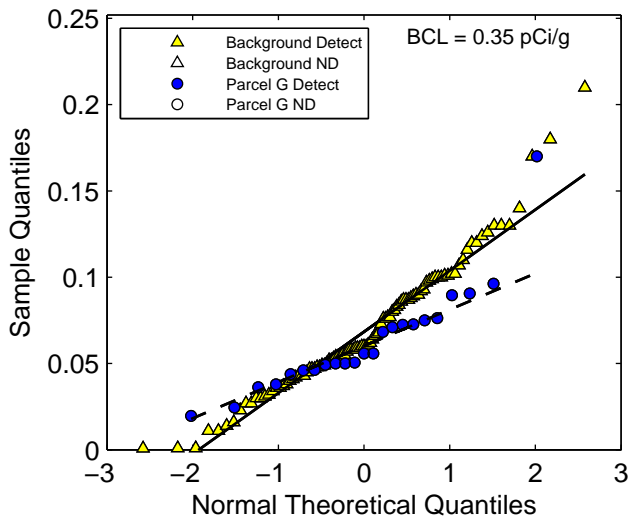
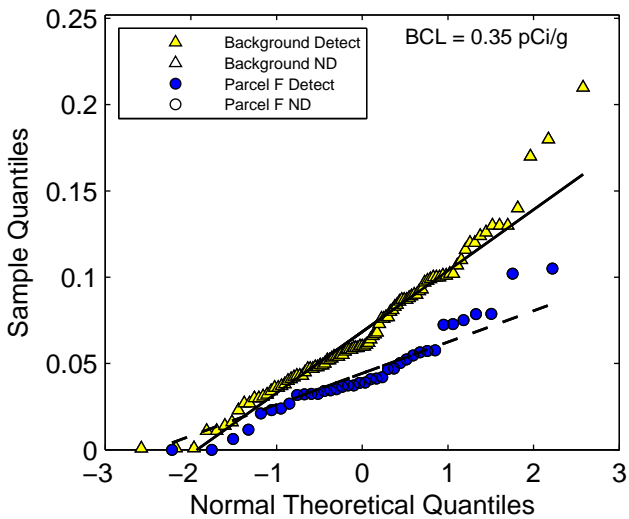
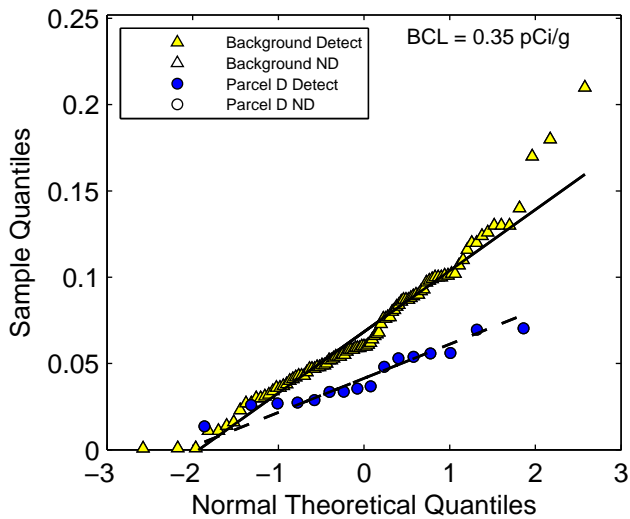
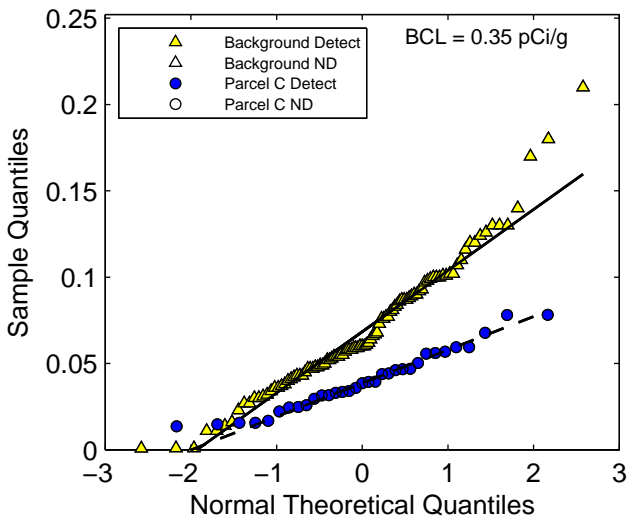
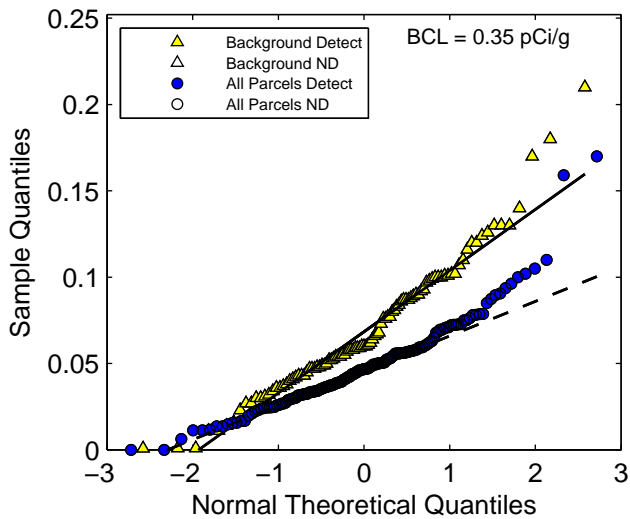


Figure 4-7B. Lognormal Q-Q Plots
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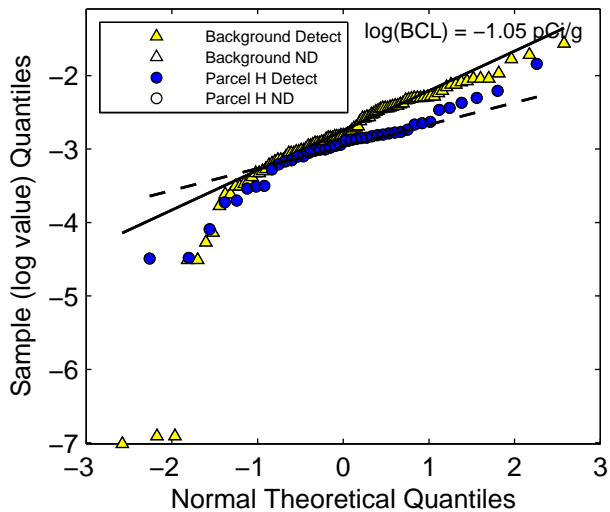
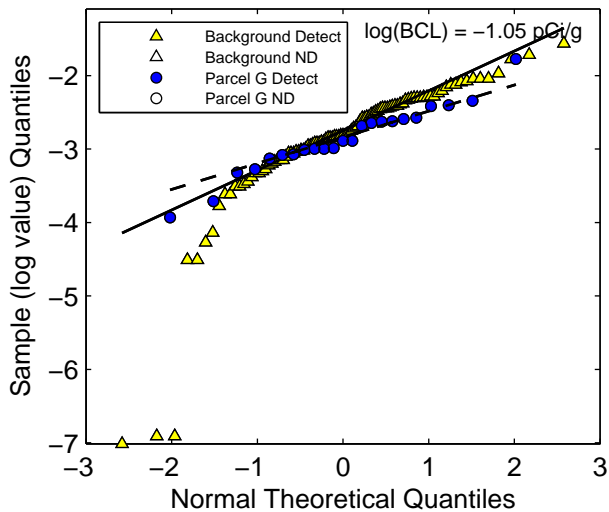
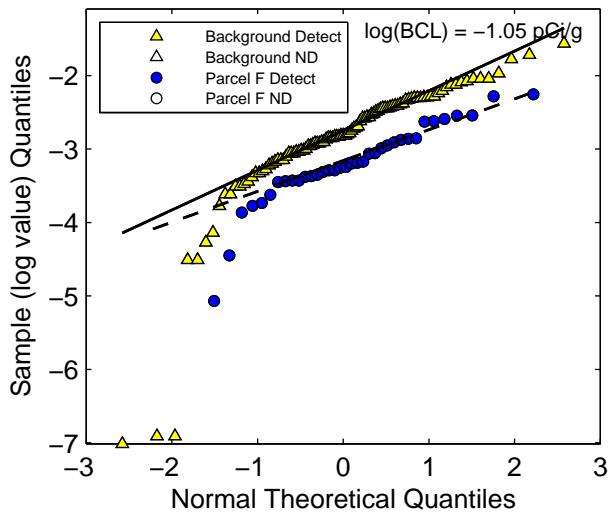
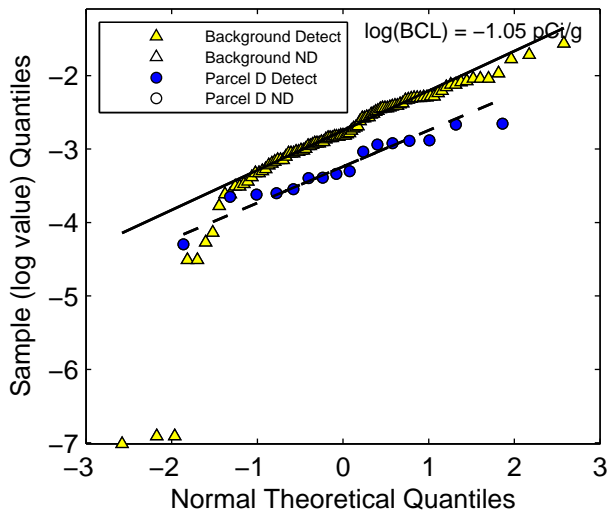
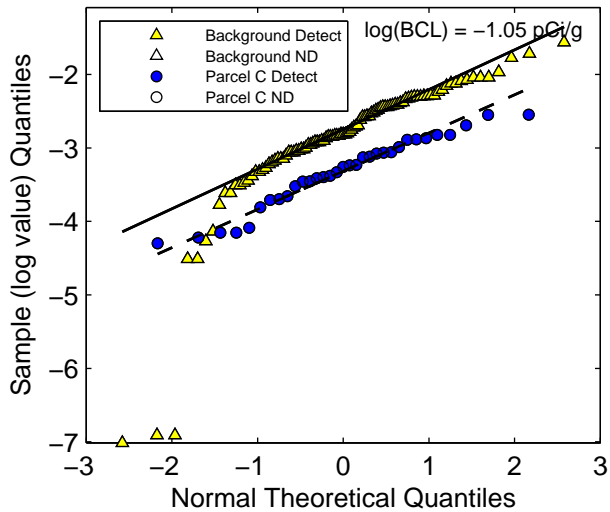
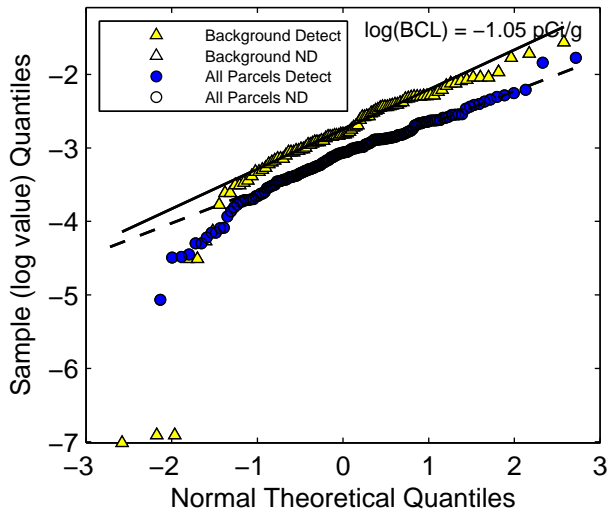


Figure 4-8A. Normal Q-Q Plots
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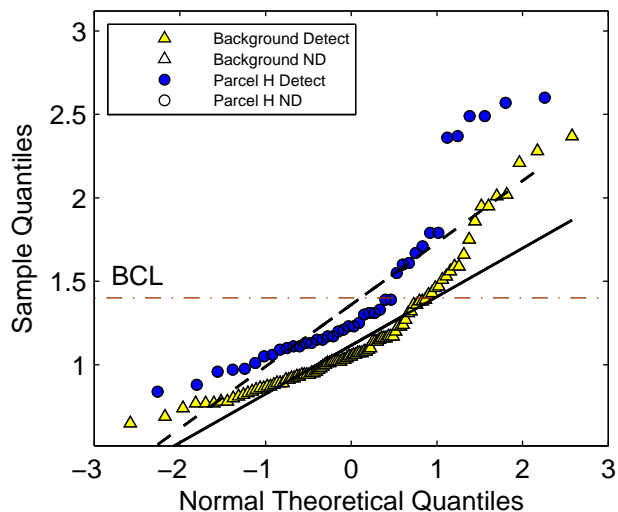
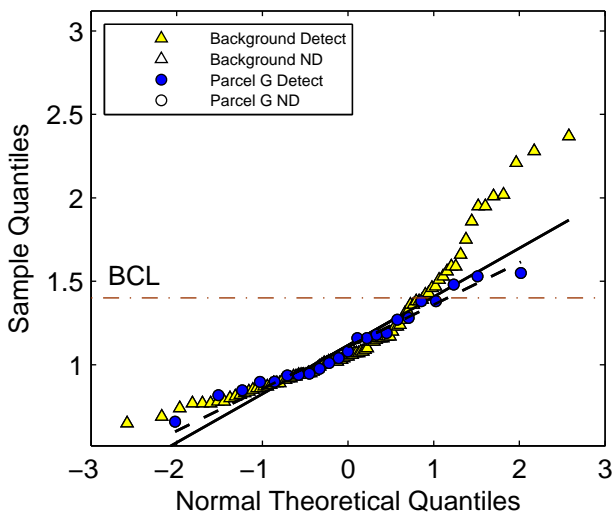
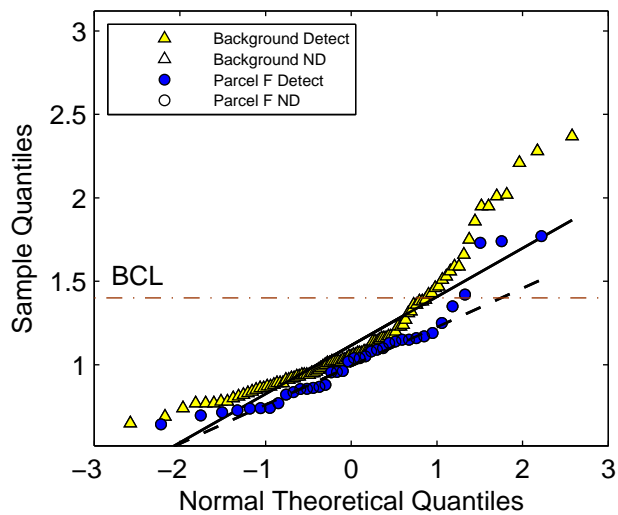
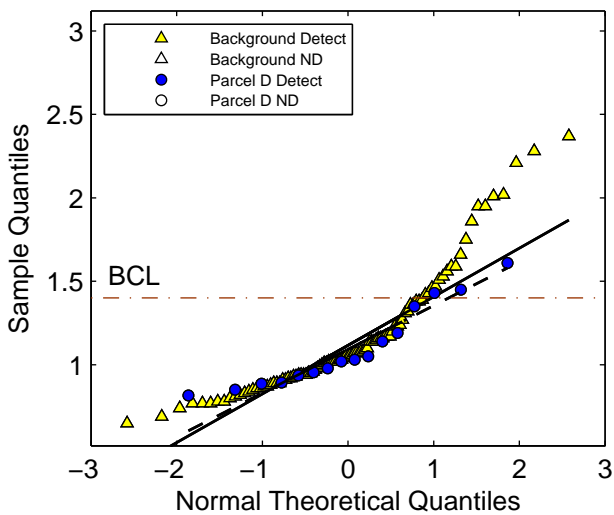
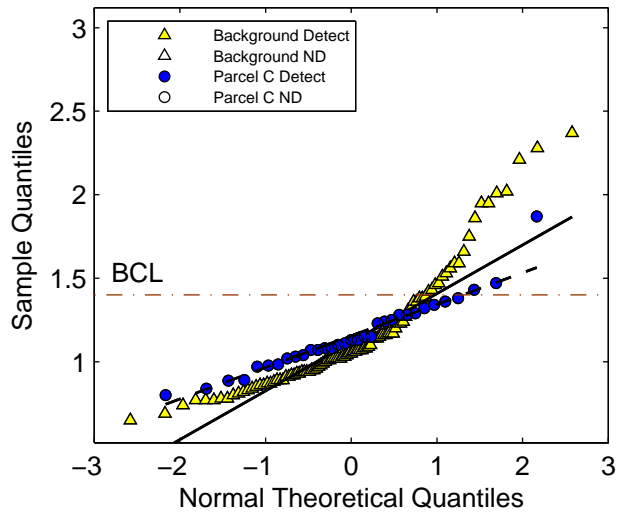
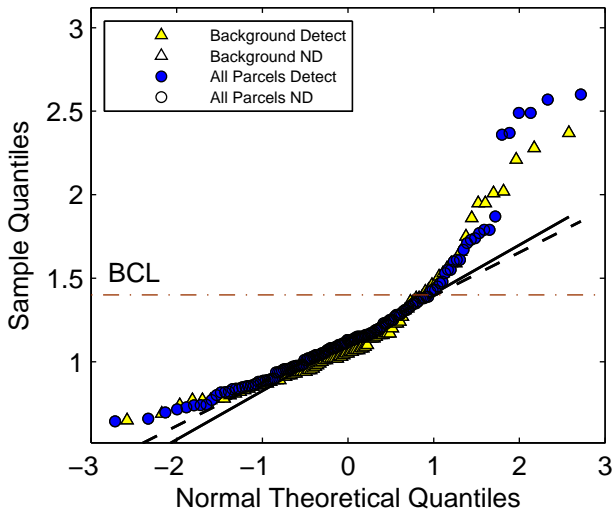


Figure 4-8B. Lognormal Q-Q Plots
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