



Sevilla, September 2023

Proficiency Test 2023-1

Laboratory Code:

Dear participants.

Enclosed you will find the report of the Proficiency Test 2023-1 on Drugs of Abuse in Hair, organized by the Society of Hair Testing.

Each of the participating laboratories received an identifying code. Your particular code is

Sets of three samples were sent to seventy-one participating laboratories. All of them have sent the report forms back.

This report includes quantitative evaluations of the results. We have also included other compounds that have been reported by more than one participating laboratory.

Abbreviations

N: Negative

P: Positive

U: Uncertain

Z-score

Z-score has been calculated as follows:

$$\text{Z-score} = (x - \bar{x}) / \text{IQR}$$

Where:

x: Concentration reported by the participant

χ : Median concentration obtained from the participating laboratories

IQR: Interquartile range: It is calculated as: Q3-Q1 (the upper quartile minus the lower quartile)

Q3: Third quartile (percentile 75)

Q1: First quartile (percentile 25)

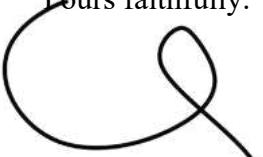
Decision criteria

The following criteria have been adopted:

Satisfactory results: $Z\text{-score} \leq \pm 2$

Questionable results: $\pm 2 < Z\text{-score} \leq \pm 3$

Unsatisfactory results: $Z\text{-score} \geq \pm 3$

Yours faithfully.

Carmen Jurado

SAMPLE A

Sample A contents were as follows:

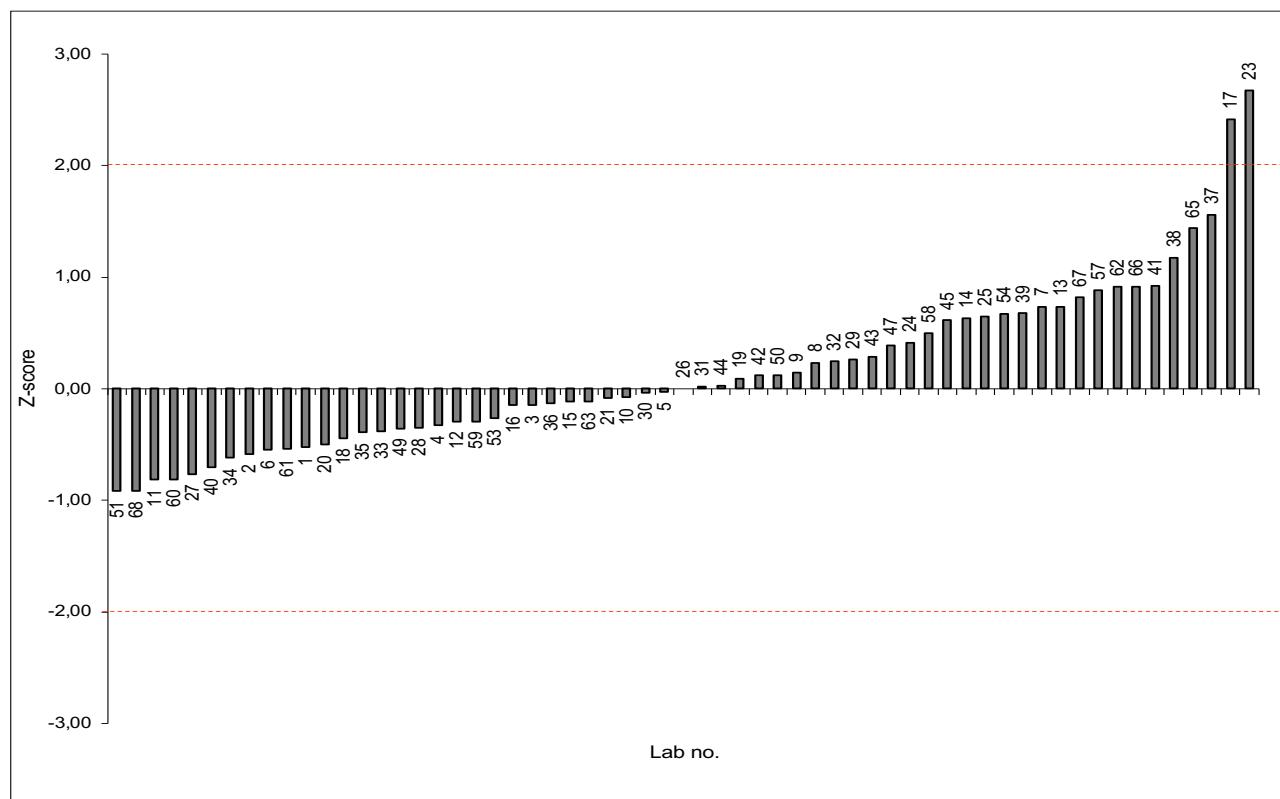
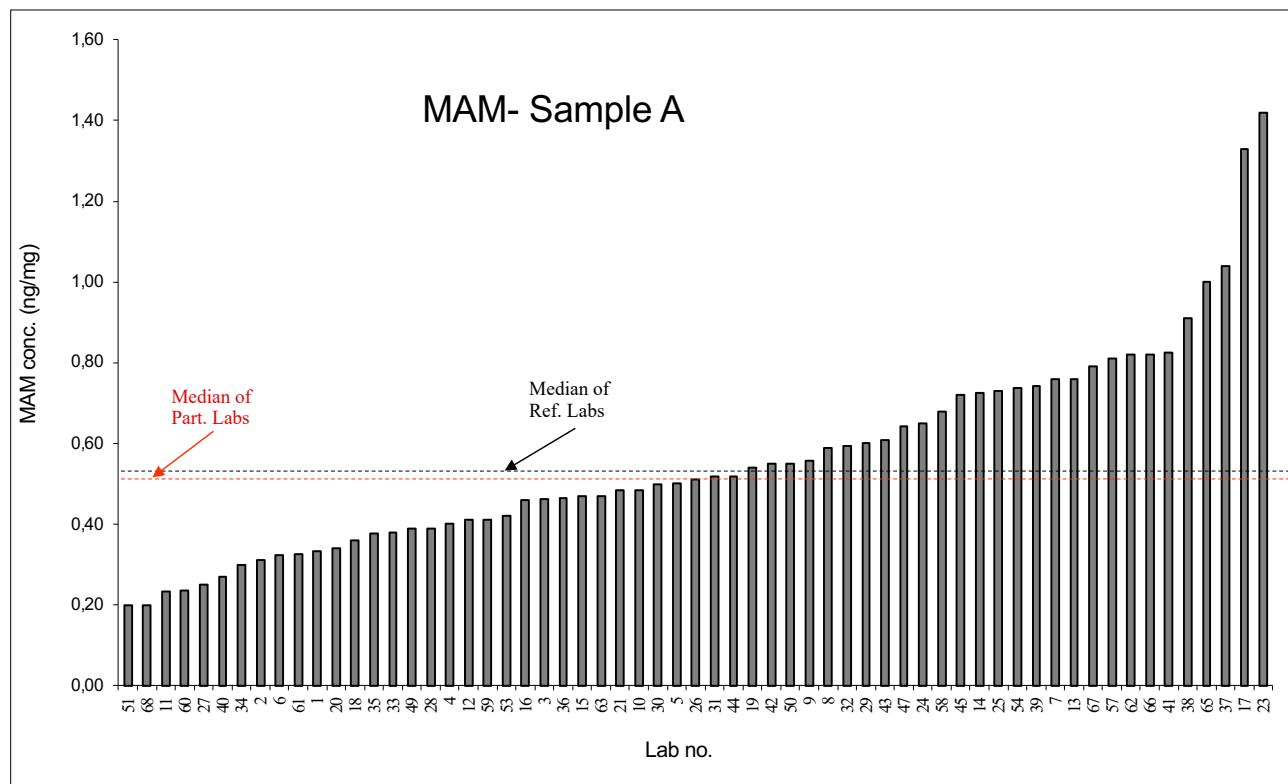
- Opiate compounds: 6-MAM, morphine, and low concentrations of codeine (0.04 ng/mg median conc.).
- Cocaine compounds: cocaine, benzoylecgonine, and low concentrations of cocaethylene (0.014 ng/mg median conc.) and norcocaine (0.009 ng/mg median conc.).
- Amphetamine compounds: amphetamine, methamphetamine and low concentrations of MDMA (0.042 ng/mg median conc.) and MDA (0.005 ng/mg median conc.).
- Cannabis compounds: THC and THC-COOH
- Methadone and EDDP
- Tramadol
- Diazepam and low concentrations of nordazepam (0.0085 ng/mg median conc.).

6-MONOACETYL MORPHINE (MAM)

Lab	MAM (ng/mg)	Z-score	Result
1	0.33	-0.52	Satisfactory
2	0.31	-0.59	Satisfactory
3	0.46	-0.14	Satisfactory
4	0.40	-0.32	Satisfactory
5	0.50	-0.03	Satisfactory
6	0.32	-0.55	Satisfactory
7	0.76	0.74	Satisfactory
8	0.59	0.23	Satisfactory
9	0.56	0.14	Satisfactory
10	0.48	-0.08	Satisfactory
11	0.23	-0.81	Satisfactory
12	0.41	-0.29	Satisfactory
13	0.76	0.74	Satisfactory
14	0.73	0.63	Satisfactory
15	0.47	-0.12	Satisfactory
16	0.46	-0.15	Satisfactory
17	1.33	2.41	Questionable
18	0.36	-0.44	Satisfactory
19	0.54	0.09	Satisfactory
20	0.34	-0.50	Satisfactory
21	0.48	-0.08	Satisfactory
22	N		
23	1.42	2.68	Questionable
24	0.65	0.41	Satisfactory
25	0.73	0.65	Satisfactory
26	0.51	0.00	Satisfactory
27	0.25	-0.76	Satisfactory
28	0.39	-0.35	Satisfactory
29	0.60	0.26	Satisfactory
30	0.50	-0.04	Satisfactory
31	0.52	0.02	Satisfactory
32	0.59	0.25	Satisfactory
33	0.38	-0.38	Satisfactory
34	0.30	-0.62	Satisfactory
35	0.38	-0.39	Satisfactory
36	0.47	-0.13	Satisfactory
37	1.04	1.56	Satisfactory
38	0.91	1.18	Satisfactory
39	0.74	0.68	Satisfactory
40	0.27	-0.71	Satisfactory
41	0.82	0.92	Satisfactory
42	0.55	0.12	Satisfactory
43	0.61	0.29	Satisfactory
44	0.52	0.02	Satisfactory
45	0.72	0.62	Satisfactory
46	P		
47	0.64	0.39	Satisfactory
48	N		
49	0.39	-0.36	Satisfactory
50	0.55	0.12	Satisfactory
51	0.20	-0.91	Satisfactory
52	N		

Lab	MAM (ng/mg)	Z-score	Result
53	0.42	-0.26	Satisfactory
54	0.74	0.67	Satisfactory
56	N		
57	0.81	0.88	Satisfactory
58	0.68	0.50	Satisfactory
59	0.41	-0.29	Satisfactory
60	0.23	-0.81	Satisfactory
61	0.33	-0.54	Satisfactory
62	0.82	0.91	Satisfactory
63	0.47	-0.12	Satisfactory
65	1.00	1.44	Satisfactory
66	0.82	0.91	Satisfactory
67	0.79	0.82	Satisfactory
68	0.20	-0.91	Satisfactory

Average	0.56
SD	0.25
CV%	44.40
Median	0.51
Minimum	0.20
Quartile 25	0.39
Quartile 75	0.73
Maximum	1.42
Iqr	0.34



MORPHINE

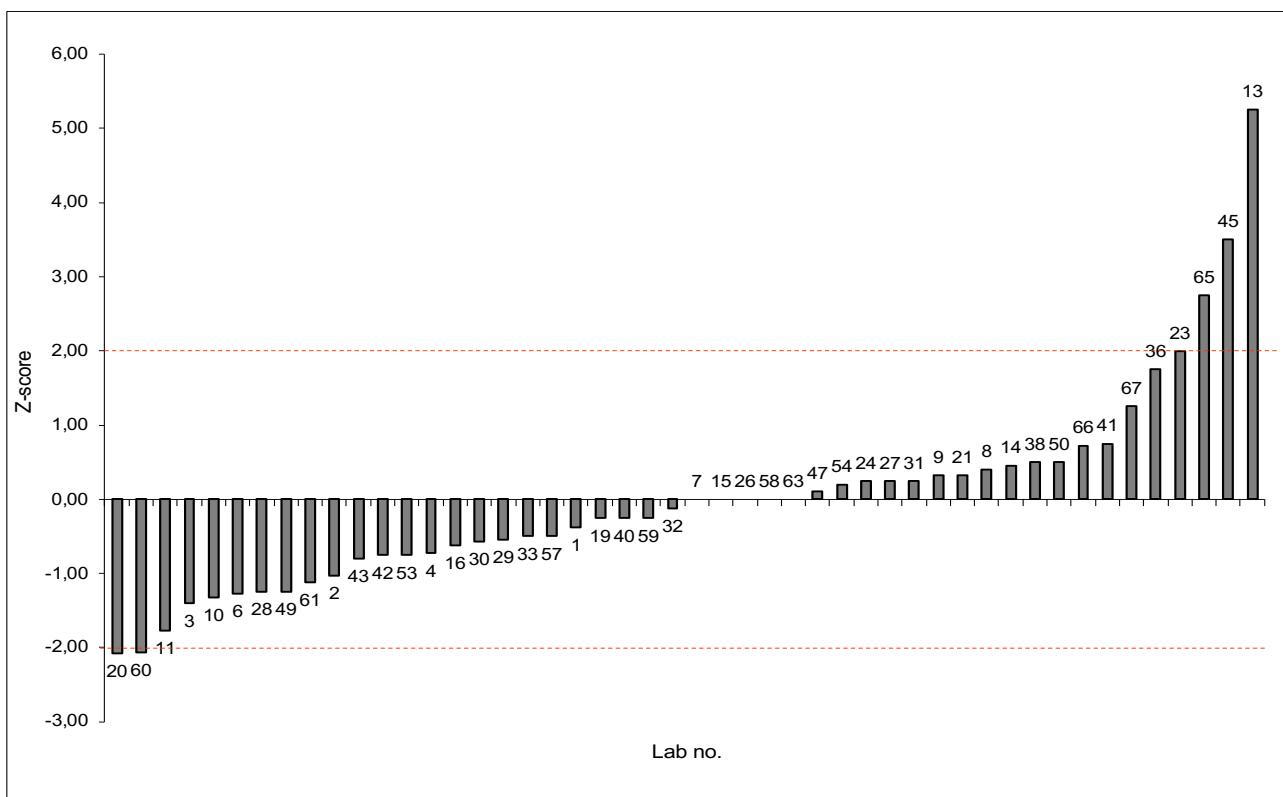
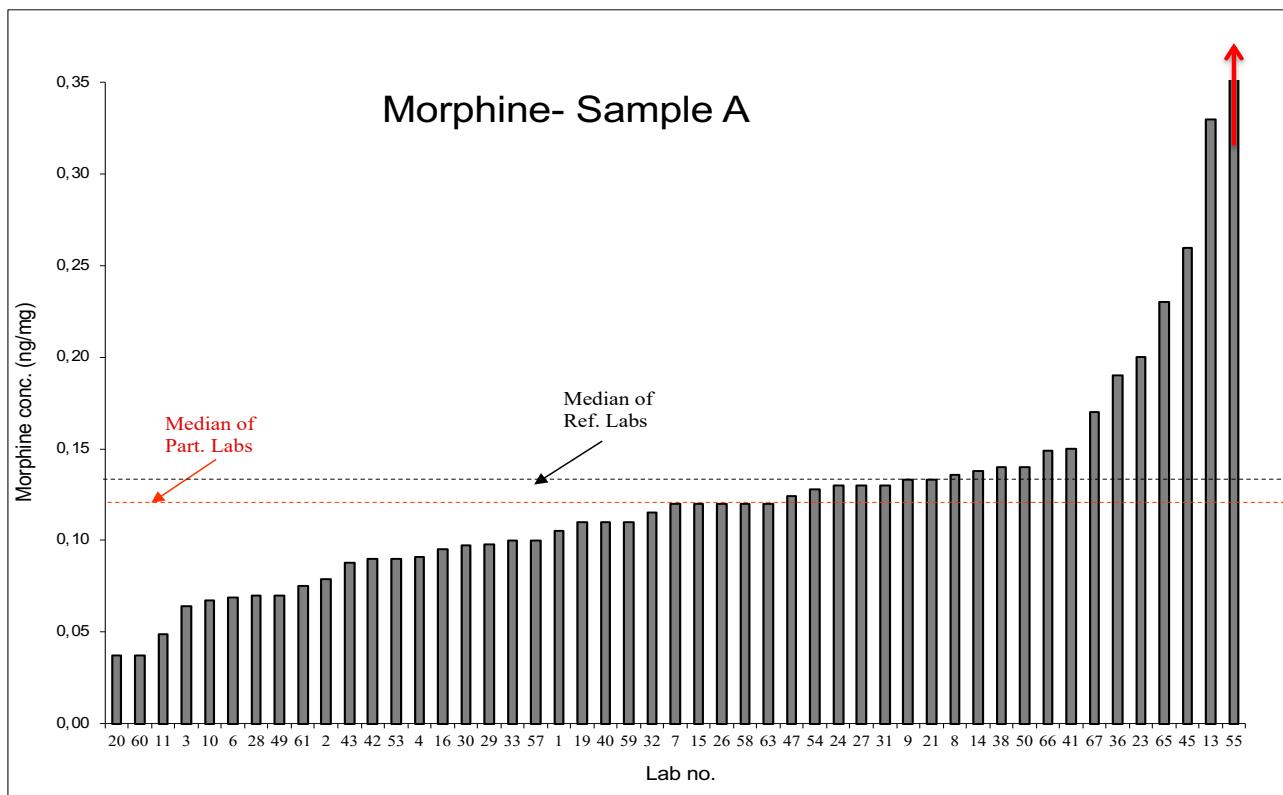
Lab	Morphine (ng/mg)	Z-score	Result
1	0.11	-0.38	Satisfactory
2	0.08	-1.03	Satisfactory
3	0.06	-1.40	Satisfactory
4	0.09	-0.73	Satisfactory
5	N		
6	0.07	-1.28	Satisfactory
7	0.12	0.00	Satisfactory
8	0.14	0.40	Satisfactory
9	0.13	0.33	Satisfactory
10	0.07	-1.33	Satisfactory
11	0.05	-1.78	Satisfactory
12	P		
13	0.33	5.25	Unsatisfactory
14	0.14	0.45	Satisfactory
15	0.12	0.00	Satisfactory
16	0.10	-0.63	Satisfactory
17	N		
18	N		
19	0.11	-0.25	Satisfactory
20	0.04	-2.08	Questionable
21	0.13	0.33	Satisfactory
22	N		
23	0.20	2.00	Questionable
24	0.13	0.25	Satisfactory
25	<0.20		
26	0.12	0.00	Satisfactory
27	0.13	0.25	Satisfactory
28	0.07	-1.25	Satisfactory
29	0.10	-0.55	Satisfactory
30	0.10	-0.57	Satisfactory
31	0.13	0.25	Satisfactory
32	0.12	-0.13	Satisfactory
33	0.10	-0.50	Satisfactory
34	N		
35	< 0.125		
36	0.19	1.75	Satisfactory
37	N		
38	0.14	0.50	Satisfactory
39	N		
40	0.11	-0.25	Satisfactory
41	0.15	0.75	Satisfactory
42	0.09	-0.75	Satisfactory
43	0.09	-0.80	Satisfactory
44	N		
45	0.26	3.50	Unsatisfactory
46	U		
47	0.12	0.10	Satisfactory
48	N		
49	0.07	-1.25	Satisfactory
50	0.14	0.50	Satisfactory
51	N		
52	N		

Lab	Morphine (ng/mg)	Z-score	Result
53	0.09	-0.75	Satisfactory
54	0.13	0.20	Satisfactory
55	2.29	Outlier	
56	N		
57	0.10	-0.50	Satisfactory
58	0.12	0.00	Satisfactory
59	0.11	-0.25	Satisfactory
60	0.04	-2.07	Questionable
61	0.08	-1.13	Satisfactory
62	N		
63	0.12	0.00	Satisfactory
64	N		
65	0.23	2.75	Questionable
66	0.15	0.73	Satisfactory
67	0.17	1.25	Satisfactory
68	N		

* Lab 55 has not been included in the statistical study

Average	0.12
SD	0.05
CV%	44.40
Median	0.12
Minimum	0.04
Quartile 25	0.09
Quartile 75	0.13
Maximum	0.33
Iqr	0.04

Morphine median concentration is below the cut-off proposed by SoHT (0.2 ng/mg)



COCAINE

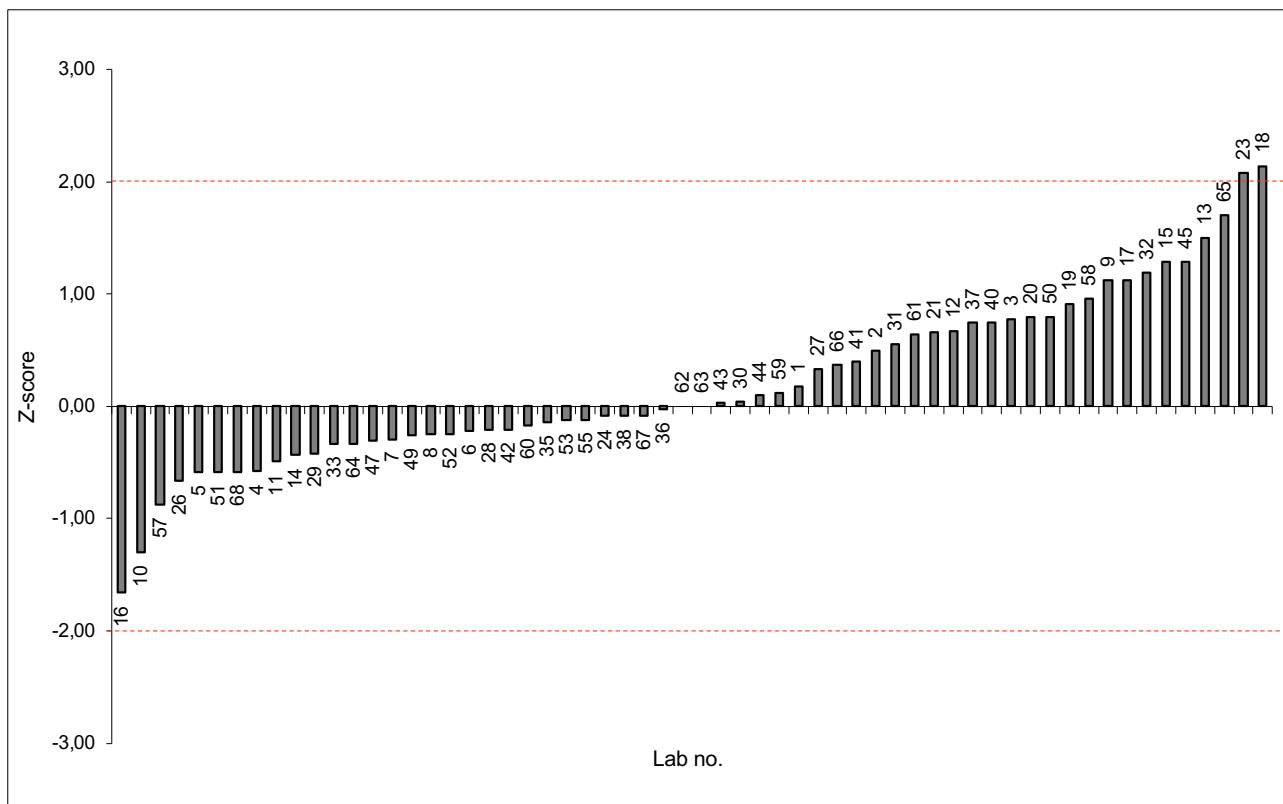
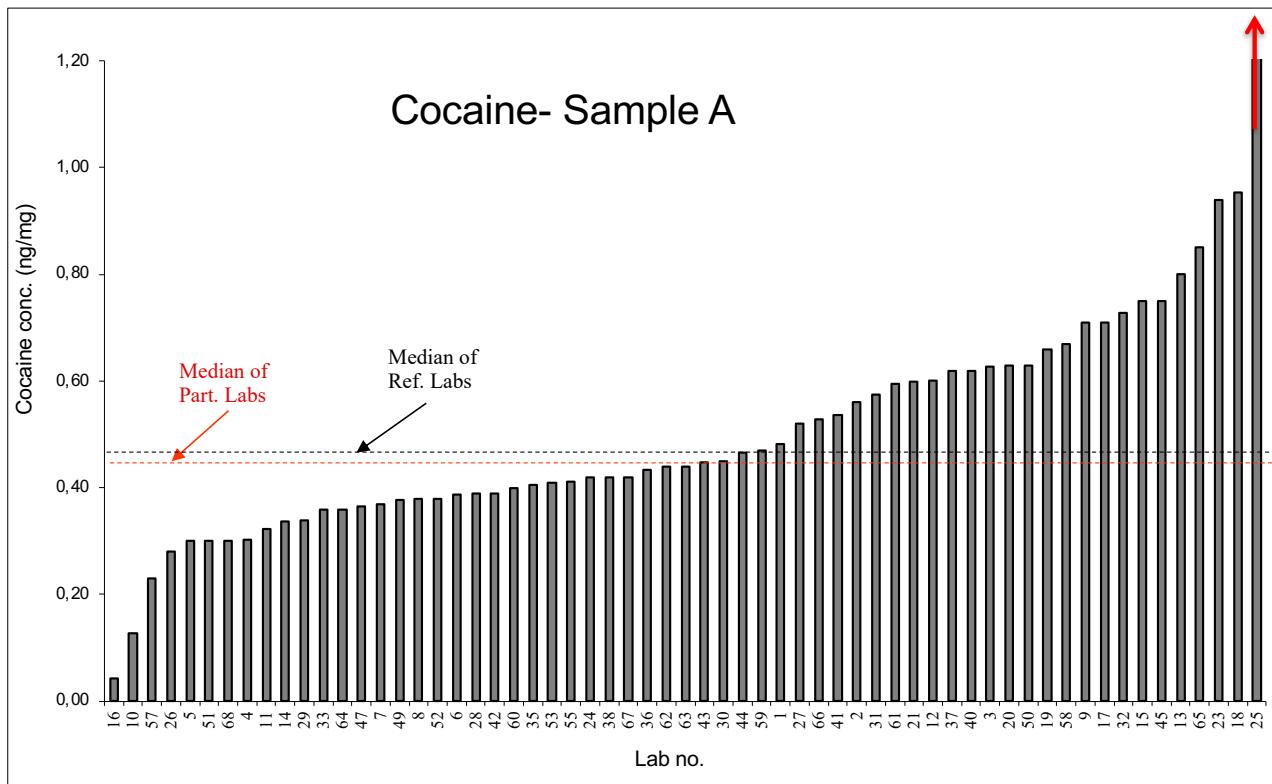
Lab	Cocaine (ng/mg)	Z-score	Result
1	0.48	0.18	Satisfactory
2	0.56	0.50	Satisfactory
3	0.63	0.78	Satisfactory
4	0.30	-0.58	Satisfactory
5	0.30	-0.58	Satisfactory
6	0.39	-0.22	Satisfactory
7	0.37	-0.29	Satisfactory
8	0.38	-0.25	Satisfactory
9	0.71	1.12	Satisfactory
10	0.13	-1.30	Satisfactory
11	0.32	-0.49	Satisfactory
12	0.60	0.67	Satisfactory
13	0.80	1.50	Satisfactory
14	0.34	-0.43	Satisfactory
15	0.75	1.29	Satisfactory
16	0.04	-1.66	Satisfactory
17	0.71	1.13	Satisfactory
18	0.95	2.14	Questionable
19	0.66	0.92	Satisfactory
20	0.63	0.79	Satisfactory
21	0.60	0.66	Satisfactory
22	N		
23	0.94	2.08	Questionable
24	0.42	-0.08	Satisfactory
25	1.80	Outlier*	
26	0.28	-0.67	Satisfactory
27	0.52	0.33	Satisfactory
28	0.39	-0.21	Satisfactory
29	0.34	-0.42	Satisfactory
30	0.45	0.04	Satisfactory
31	0.57	0.56	Satisfactory
32	0.73	1.20	Satisfactory
33	0.36	-0.33	Satisfactory
34	N		
35	0.41	-0.14	Satisfactory
36	0.43	-0.03	Satisfactory
37	0.62	0.75	Satisfactory
38	0.42	-0.08	Satisfactory
39	N		
40	0.62	0.75	Satisfactory
41	0.54	0.40	Satisfactory
42	0.39	-0.21	Satisfactory
43	0.45	0.03	Satisfactory
44	0.47	0.10	Satisfactory
45	0.75	1.29	Satisfactory
46	U		
47	0.37	-0.31	Satisfactory
48	N		
49	0.38	-0.26	Satisfactory
50	0.63	0.79	Satisfactory
51	0.30	-0.58	Satisfactory
52	0.38	-0.25	Satisfactory

Lab	Cocaine (ng/mg)	Z-score	Result
53	0.41	-0.13	Satisfactory
54	N		
55	0.41	-0.12	Satisfactory
56	N		
57	0.23	-0.88	Satisfactory
58	0.67	0.96	Satisfactory
59	0.47	0.13	Satisfactory
60	0.40	-0.17	Satisfactory
61	0.59	0.64	Satisfactory
62	0.44	0.00	Satisfactory
63	0.44	0.00	Satisfactory
64	0.36	-0.33	Satisfactory
65	0.85	1.71	Satisfactory
66	0.53	0.37	Satisfactory
67	0.42	-0.08	Satisfactory
68	0.30	-0.58	Satisfactory

* Lab 25 has not been included in the statistical study

Average	0.49
SD	0.18
CV%	37.22
Median	0.44
Minimum	0.04
Quartile 25	0.38
Quartile 75	0.62
Maximum	0.95
Iqr	0.24

Cocaine median concentration is below the cut-off proposed by SoHT (0.5 ng/mg)



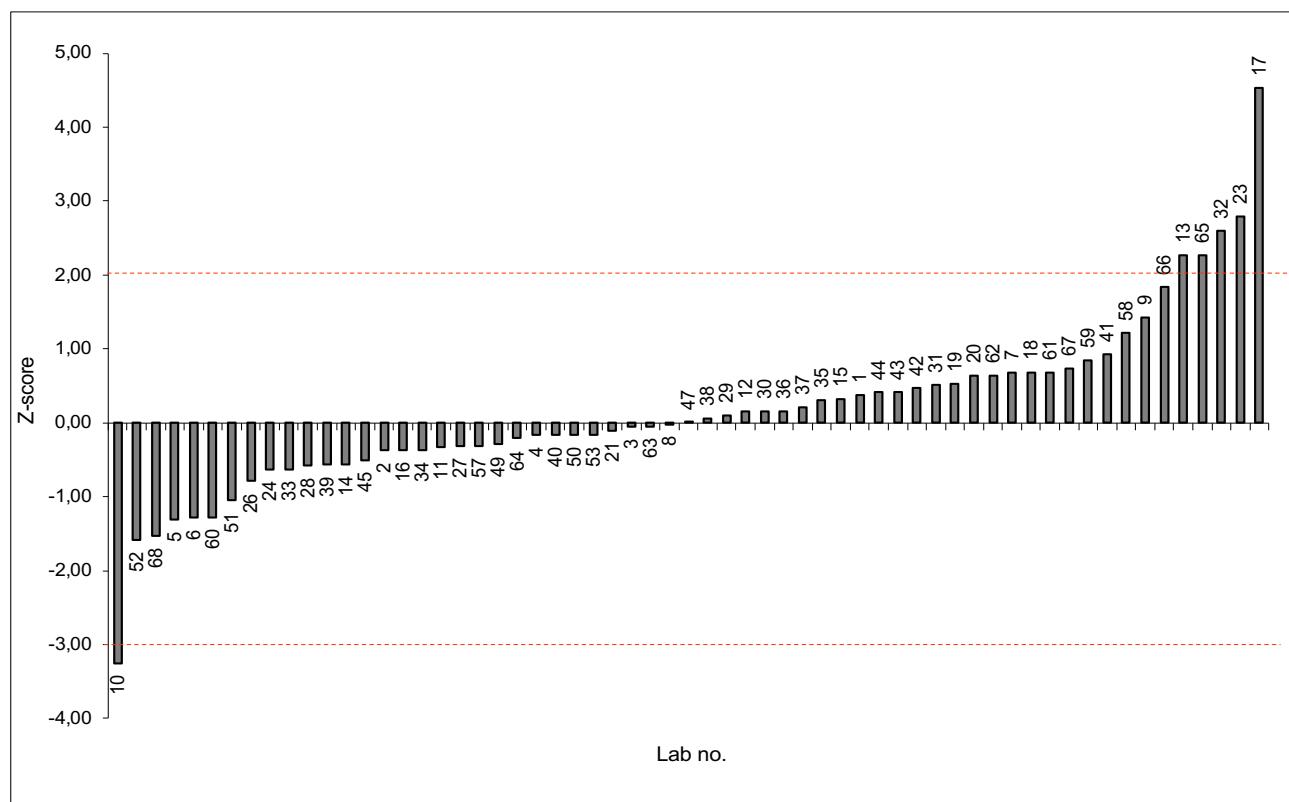
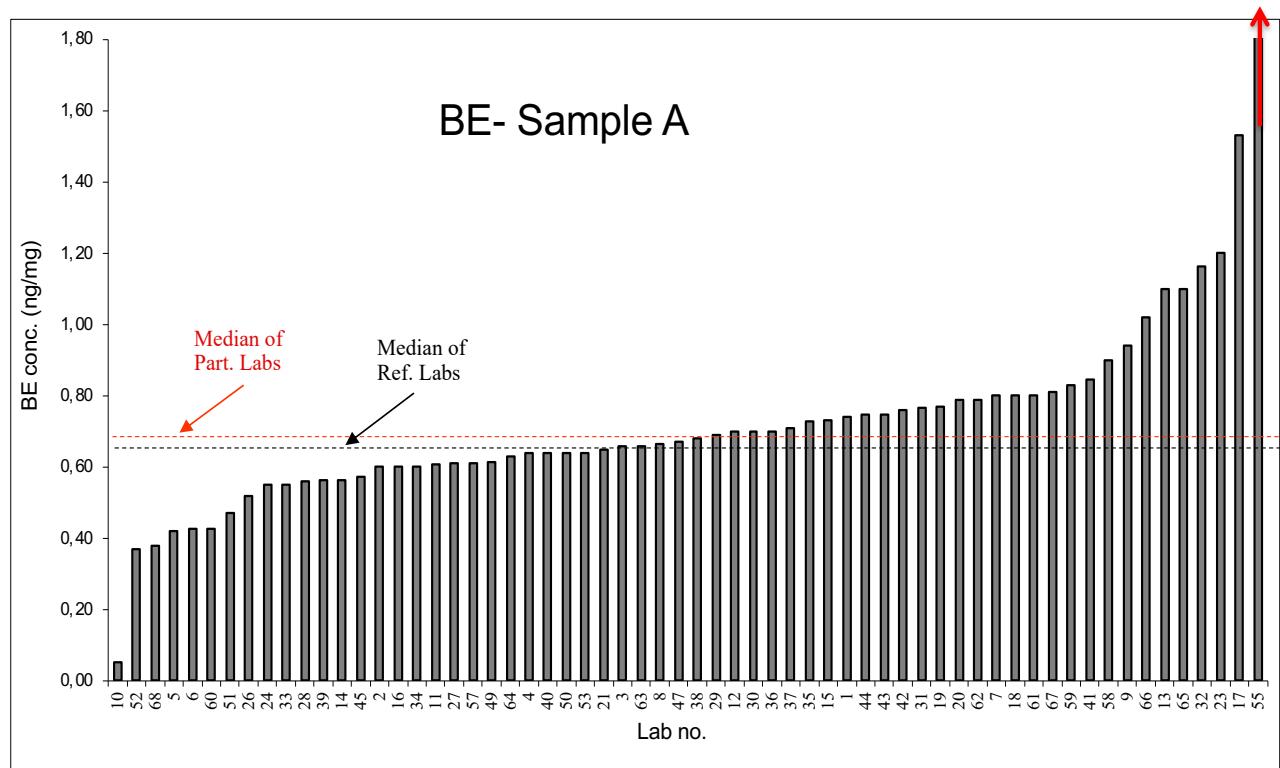
BENZOYLECGONINE (BE)

Lab	BE (ng/mg)	Z-score	Result
1	0.74	0.38	Satisfactory
2	0.60	-0.37	Satisfactory
3	0.66	-0.05	Satisfactory
4	0.64	-0.16	Satisfactory
5	0.42	-1.32	Satisfactory
6	0.43	-1.28	Satisfactory
7	0.80	0.68	Satisfactory
8	0.67	-0.02	Satisfactory
9	0.94	1.43	Satisfactory
10	0.05	-3.25	Unsatisfactory
11	0.61	-0.33	Satisfactory
12	0.70	0.16	Satisfactory
13	1.10	2.26	Questionable
14	0.56	-0.56	Satisfactory
15	0.73	0.32	Satisfactory
16	0.60	-0.37	Satisfactory
17	1.53	4.53	Unsatisfactory
18	0.80	0.68	Satisfactory
19	0.77	0.53	Satisfactory
20	0.79	0.63	Satisfactory
21	0.65	-0.11	Satisfactory
22	N		
23	1.20	2.79	Questionable
24	0.55	-0.63	Satisfactory
25	P		
26	0.52	-0.79	Satisfactory
27	0.61	-0.32	Satisfactory
28	0.56	-0.58	Satisfactory
29	0.69	0.11	Satisfactory
30	0.70	0.16	Satisfactory
31	0.77	0.52	Satisfactory
32	1.16	2.59	Questionable
33	0.55	-0.63	Satisfactory
34	0.60	-0.37	Satisfactory
35	0.73	0.31	Satisfactory
36	0.70	0.16	Satisfactory
37	0.71	0.21	Satisfactory
38	0.68	0.05	Satisfactory
39	0.56	-0.57	Satisfactory
40	0.64	-0.16	Satisfactory
41	0.85	0.93	Satisfactory
42	0.76	0.47	Satisfactory
43	0.75	0.42	Satisfactory
44	0.75	0.41	Satisfactory
45	0.57	-0.51	Satisfactory
46	P		
47	0.67	0.01	Satisfactory
49	0.62	-0.29	Satisfactory
50	0.64	-0.16	Satisfactory
51	0.47	-1.05	Satisfactory
52	0.37	-1.58	Satisfactory
53	0.64	-0.16	Satisfactory

Lab	BE (ng/mg)	Z-score	Result
54	N		
55	2.77	Outlier*	
56	N		
57	0.61	-0.32	Satisfactory
58	0.90	1.21	Satisfactory
59	0.83	0.84	Satisfactory
60	0.43	-1.28	Satisfactory
61	0.80	0.68	Satisfactory
62	0.79	0.63	Satisfactory
63	0.66	-0.05	Satisfactory
64	0.63	-0.21	Satisfactory
65	1.10	2.26	Questionable
66	1.02	1.84	Satisfactory
67	0.81	0.74	Satisfactory
68	0.38	-1.53	Satisfactory

* Lab 55 has not been included in the statistical study

Average	0.70
SD	0.22
CV%	31.34
Median	0.67
Minimum	0.05
Quartile 25	0.60
Quartile 75	0.79
Maximum	1.53
Iqr	0.19



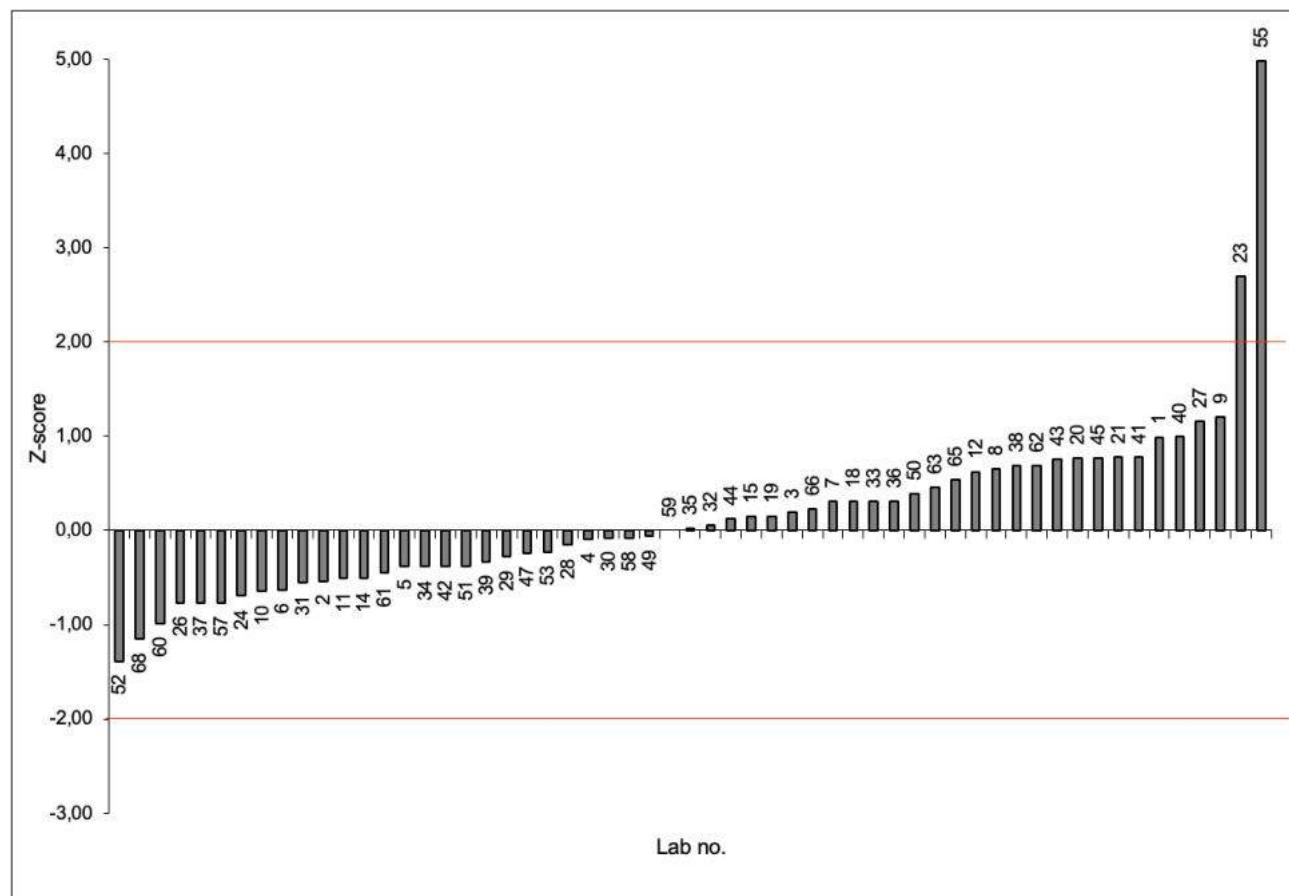
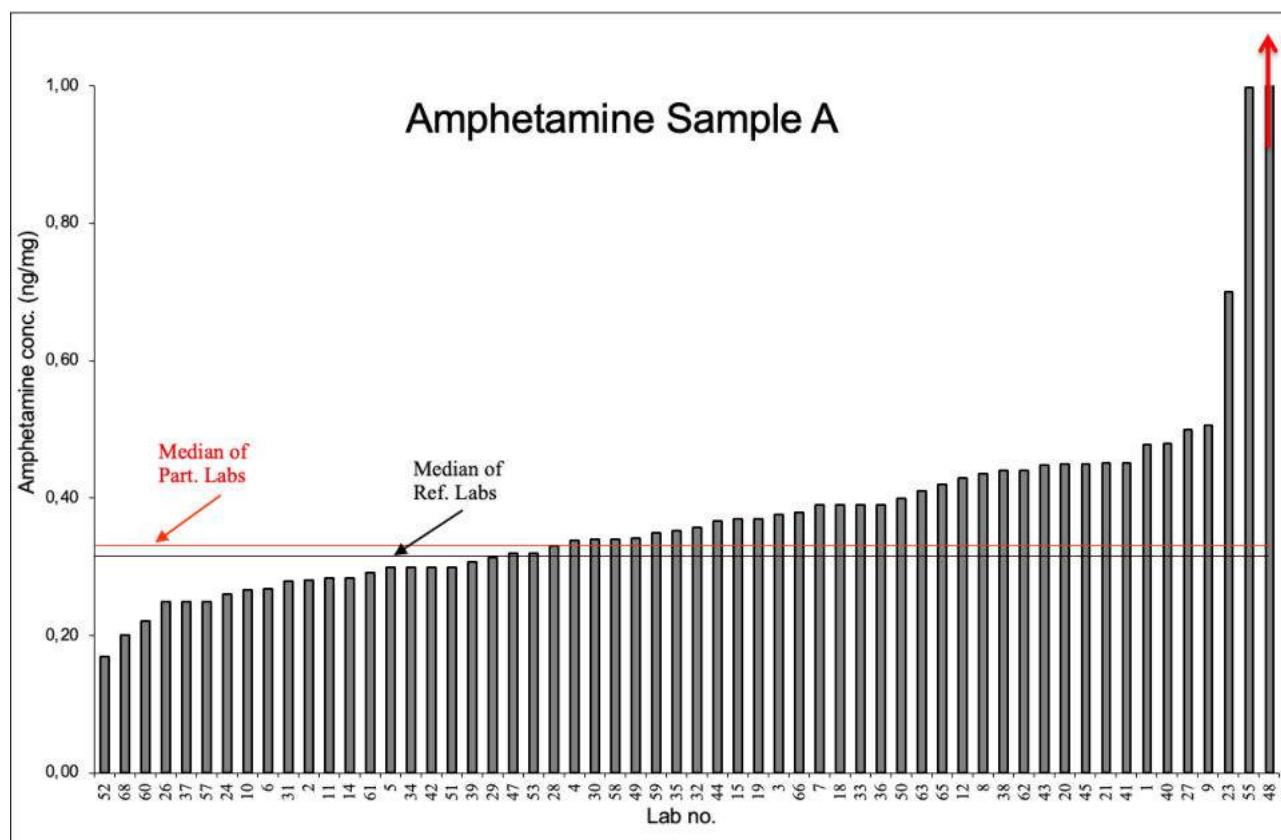
AMPHETAMINE (AP)

Lab	AP (ng/mg)	Z-score	Result
1	0.48	0.98	Satisfactory
2	0.28	-0.54	Satisfactory
3	0.38	0.20	Satisfactory
4	0.34	-0.09	Satisfactory
5	0.30	-0.38	Satisfactory
6	0.27	-0.63	Satisfactory
7	0.39	0.31	Satisfactory
8	0.44	0.65	Satisfactory
9	0.51	1.20	Satisfactory
10	0.27	-0.65	Satisfactory
11	0.28	-0.51	Satisfactory
12	0.43	0.62	Satisfactory
13	N		
14	0.28	-0.51	Satisfactory
15	0.37	0.15	Satisfactory
16	N		
17	N		
18	0.39	0.31	Satisfactory
19	0.37	0.15	Satisfactory
20	0.45	0.77	Satisfactory
21	0.45	0.78	Satisfactory
22	N		
23	0.70	2.69	Questionable
24	0.26	-0.69	Satisfactory
25	N		
26	0.25	-0.77	Satisfactory
27	0.50	1.15	Satisfactory
28	0.33	-0.15	Satisfactory
29	0.31	-0.28	Satisfactory
30	0.34	-0.08	Satisfactory
31	0.28	-0.55	Satisfactory
32	0.36	0.05	Satisfactory
33	0.39	0.31	Satisfactory
34	0.30	-0.38	Satisfactory
35	0.35	0.02	Satisfactory
36	0.39	0.31	Satisfactory
37	0.25	-0.77	Satisfactory
38	0.44	0.69	Satisfactory
39	0.31	-0.33	Satisfactory
40	0.48	1.00	Satisfactory
41	0.45	0.78	Satisfactory
42	0.30	-0.38	Satisfactory
43	0.45	0.75	Satisfactory
44	0.37	0.12	Satisfactory
45	0.45	0.77	Satisfactory
46	U		
47	0.32	-0.24	Satisfactory
48	1.34*	Outlier	
49	0.34	-0.06	Satisfactory
50	0.40	0.38	Satisfactory
51	0.30	-0.38	Satisfactory
52	0.17	-1.38	Satisfactory

Lab	AP (ng/mg)	Z-score	Result
53	0.32	-0.23	Satisfactory
54	N		
55	1.00	4.98	Unsatisfactory
56	N		
57	0.25	-0.77	Satisfactory
58	0.34	-0.08	Satisfactory
59	0.35	0.00	Satisfactory
60	0.22	-0.99	Satisfactory
61	0.29	-0.45	Satisfactory
62	0.44	0.69	Satisfactory
63	0.41	0.46	Satisfactory
65	0.42	0.54	Satisfactory
66	0.38	0.23	Satisfactory
67	N		
68	0.20	-1.15	Satisfactory

* Lab 48 has not been included in the statistical study

Average	0.37
SD	0.12
CV%	33.26
Median	0.35
Minimum	0.17
Quartile 25	0.30
Quartile 75	0.43
Maximum	1.00
Iqr	0.13



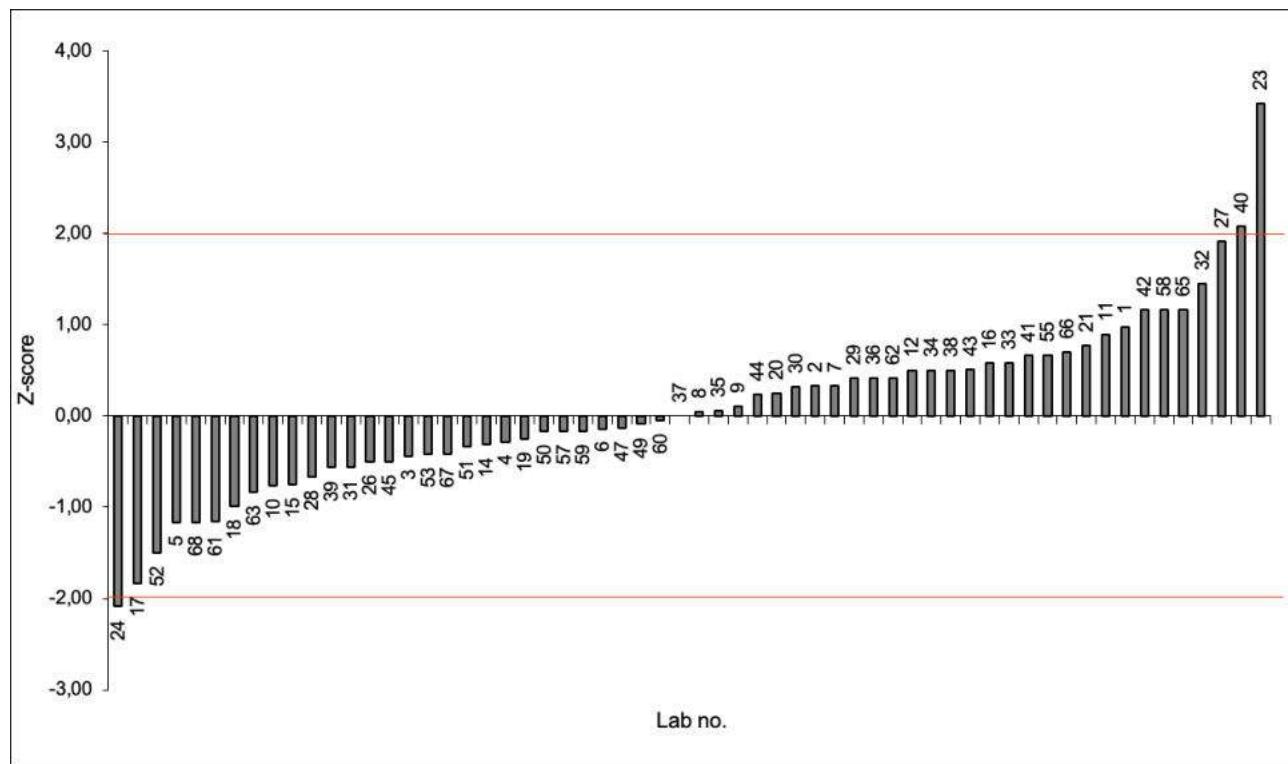
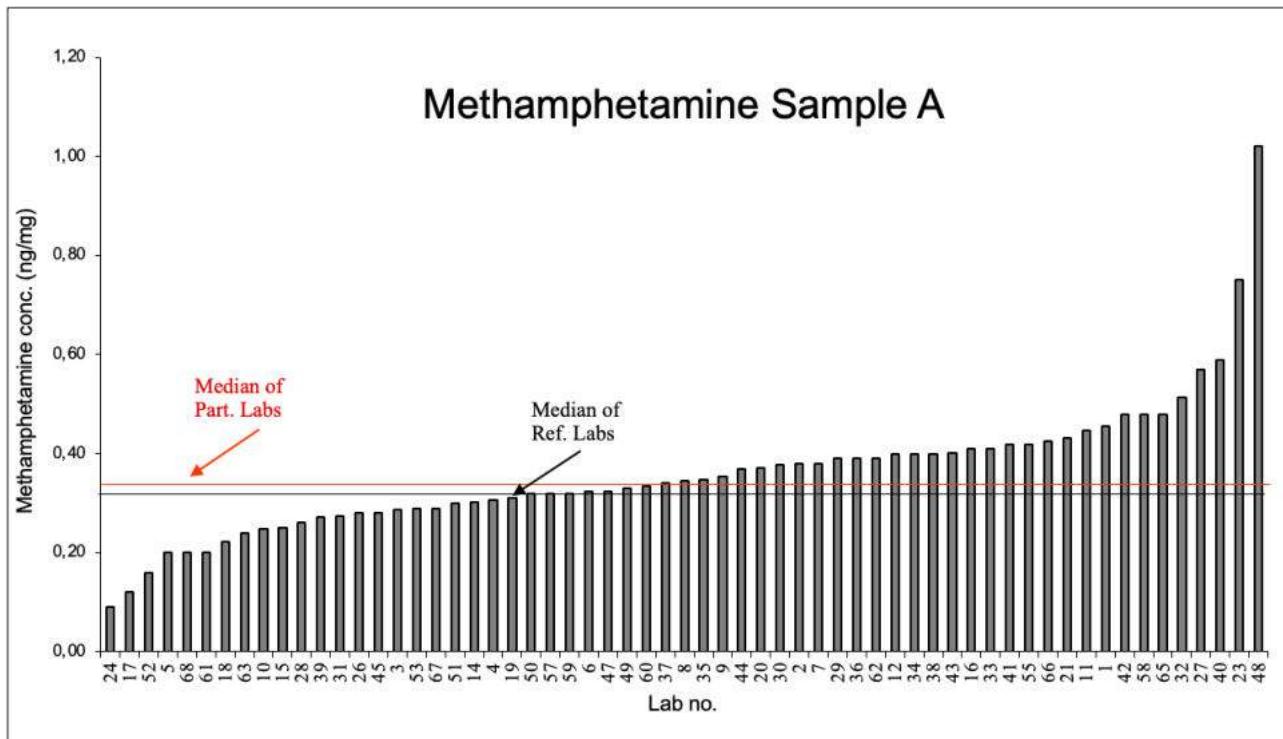
METHAMPHETAMINE (MetAP)

Lab	MetAP (ng/mg)	Z-score	Result
1	0.46	0.97	Satisfactory
2	0.38	0.33	Satisfactory
3	0.29	-0.44	Satisfactory
4	0.31	-0.28	Satisfactory
5	0.20	-1.17	Satisfactory
6	0.32	-0.14	Satisfactory
7	0.38	0.33	Satisfactory
8	0.35	0.05	Satisfactory
9	0.35	0.11	Satisfactory
10	0.25	-0.76	Satisfactory
11	0.45	0.88	Satisfactory
12	0.40	0.50	Satisfactory
13	N		
14	0.30	-0.31	Satisfactory
15	0.25	-0.75	Satisfactory
16	0.41	0.58	Satisfactory
17	0.12	-1.83	Satisfactory
18	0.22	-0.98	Satisfactory
19	0.31	-0.25	Satisfactory
20	0.37	0.25	Satisfactory
21	0.43	0.77	Satisfactory
22	N		
23	0.75	3.42	Unsatisfactory
24	0.09	-2.08	Questionable
25	N		
26	0.28	-0.50	Satisfactory
27	0.57	1.92	Satisfactory
28	0.26	-0.67	Satisfactory
29	0.39	0.42	Satisfactory
30	0.38	0.32	Satisfactory
31	0.27	-0.56	Satisfactory
32	0.51	1.45	Satisfactory
33	0.41	0.58	Satisfactory
34	0.40	0.50	Satisfactory
35	0.35	0.06	Satisfactory
36	0.39	0.42	Satisfactory
37	0.34	0.00	Satisfactory
38	0.40	0.50	Satisfactory
39	0.27	-0.56	Satisfactory
40	0.59	2.08	Questionable
41	0.42	0.66	Satisfactory
42	0.48	1.17	Satisfactory
43	0.40	0.51	Satisfactory
44	0.37	0.23	Satisfactory
45	0.28	-0.50	Satisfactory
46	P		
47	0.32	-0.13	Satisfactory
48	1.02	Outlier*	
49	0.33	-0.09	Satisfactory
50	0.32	-0.17	Satisfactory
51	0.30	-0.33	Satisfactory
52	0.16	-1.50	Satisfactory

Lab	MetAP (ng/mg)	Z-score	Result
53	0.29	-0.42	Satisfactory
54	N		
55	0.42	0.66	Satisfactory
56	N		
57	0.32	-0.17	Satisfactory
58	0.48	1.17	Satisfactory
59	0.32	-0.17	Satisfactory
60	0.33	-0.05	Satisfactory
61	0.20	-1.16	Satisfactory
62	0.39	0.42	Satisfactory
63	0.24	-0.83	Satisfactory
65	0.48	1.17	Satisfactory
66	0.42	0.70	Satisfactory
67	0.29	-0.42	Satisfactory
68	0.20	-1.17	Satisfactory

* Lab 48 has not been included in the statistical study

Average	0.35
SD	0.11
CV%	31.73
Median	0.34
Minimum	0.09
Quartile 25	0.29
Quartile 75	0.40
Maximum	0.75
Iqr	0.12

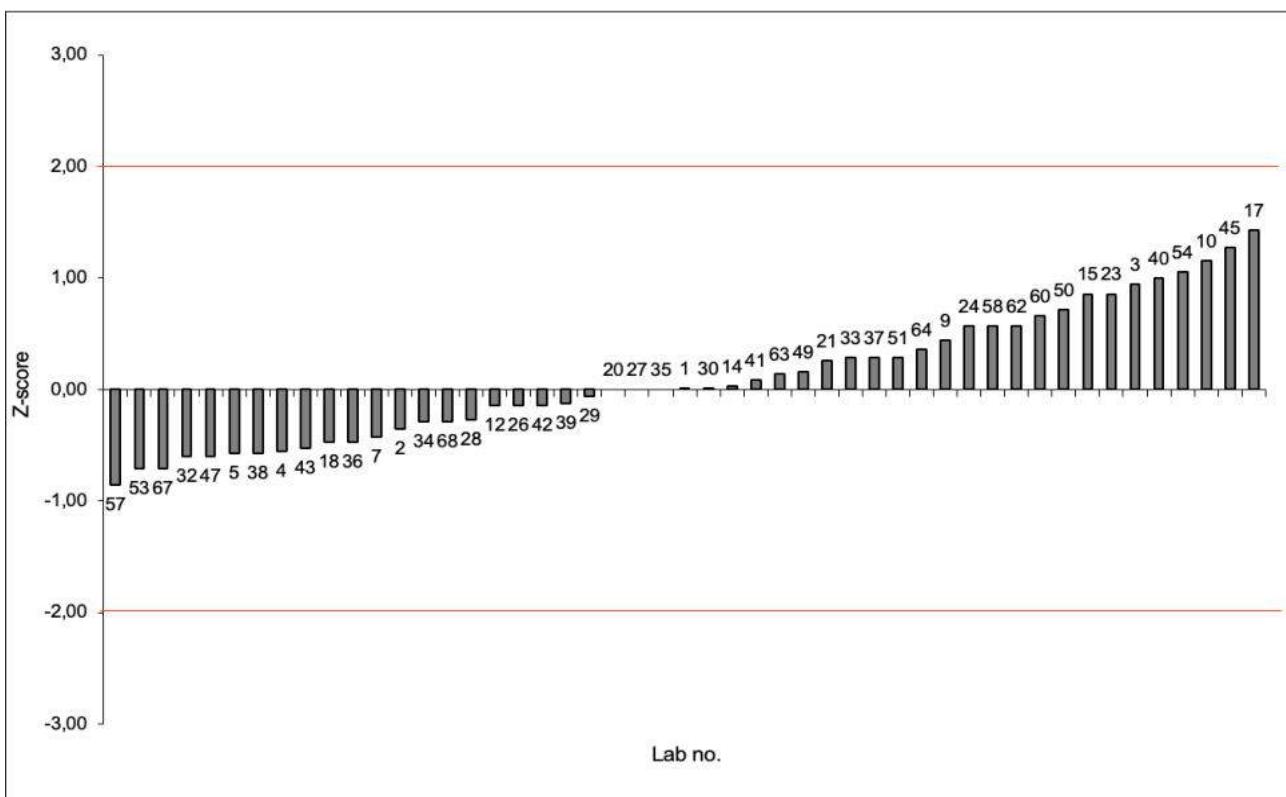
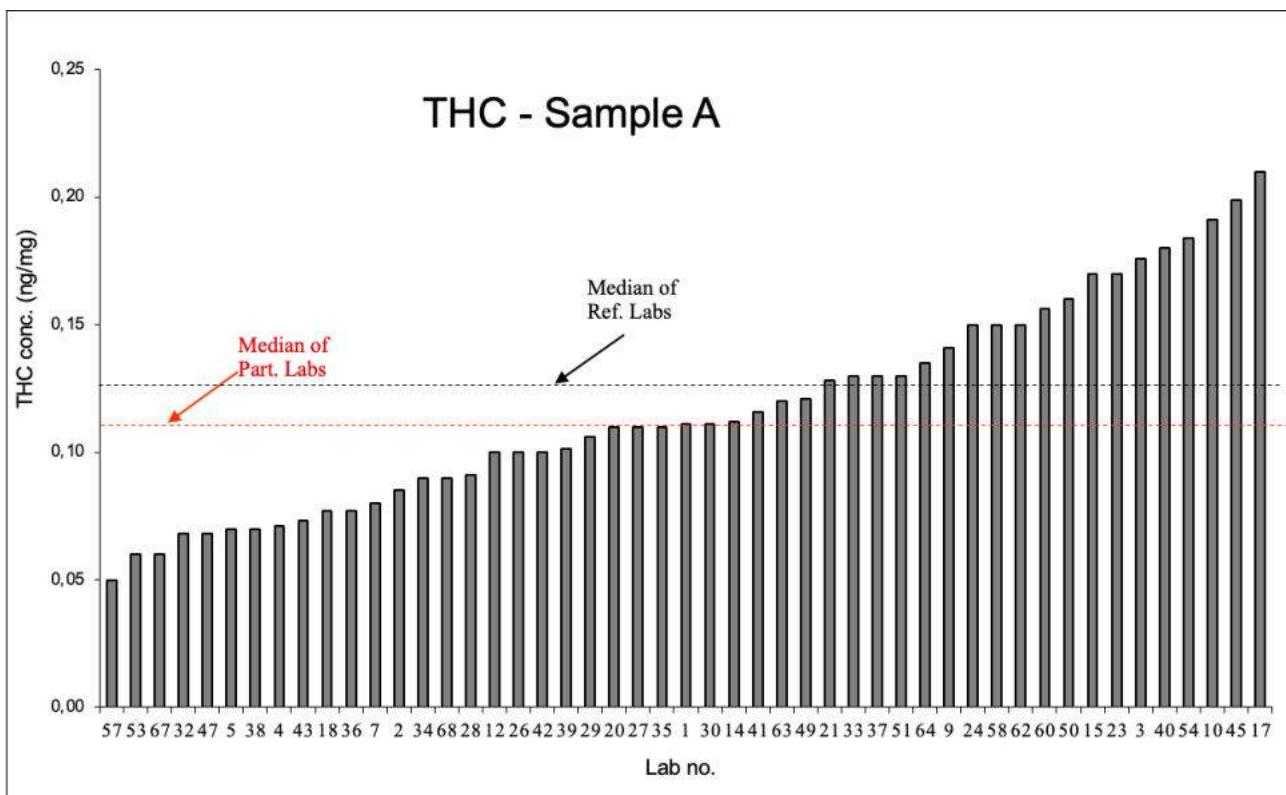


Δ^9 -TETRAHYDROCANNABINOL (THC)

Lab	THC (ng/mg)	Z-score	Result
1	0.11	0.01	Satisfactory
2	0.09	-0.36	Satisfactory
3	0.18	0.94	Satisfactory
4	0.07	-0.56	Satisfactory
5	0.07	-0.57	Satisfactory
7	0.08	-0.43	Satisfactory
9	0.14	0.44	Satisfactory
10	0.19	1.16	Satisfactory
12	0.10	-0.14	Satisfactory
13	N		
14	0.11	0.03	Satisfactory
15	0.17	0.86	Satisfactory
17	0.21	1.43	Satisfactory
18	0.08	-0.47	Satisfactory
20	0.11	0.00	Satisfactory
21	0.13	0.26	Satisfactory
23	0.17	0.86	Satisfactory
24	0.15	0.57	Satisfactory
25	P		
26	0.10	-0.14	Satisfactory
27	0.11	0.00	Satisfactory
28	0.09	-0.27	Satisfactory
29	0.11	-0.06	Satisfactory
30	0.11	0.01	Satisfactory
32	0.07	-0.60	Satisfactory
33	0.13	0.29	Satisfactory
34	0.09	-0.29	Satisfactory
35	0.11	0.00	Satisfactory
36	0.08	-0.47	Satisfactory
37	0.13	0.29	Satisfactory
38	0.07	-0.57	Satisfactory
39	0.10	-0.13	Satisfactory
40	0.18	1.00	Satisfactory
41	0.12	0.09	Satisfactory
42	0.10	-0.14	Satisfactory
43	0.07	-0.52	Satisfactory
45	0.20	1.27	Satisfactory
46	P		
47	0.07	-0.60	Satisfactory
49	0.12	0.16	Satisfactory
50	0.16	0.71	Satisfactory
51	0.13	0.29	Satisfactory
53	0.06	-0.71	Satisfactory
54	0.18	1.06	Satisfactory
55	N		
56	N		
57	0.05	-0.86	Satisfactory
58	0.15	0.57	Satisfactory
60	0.16	0.66	Satisfactory
61	P		
62	0.15	0.57	Satisfactory
63	0.12	0.14	Satisfactory

Lab	THC (ng/mg)	Z-score	Result
64	0.14	0.36	Satisfactory
67	0.06	-0.71	Satisfactory
68	0.09	-0.29	Satisfactory

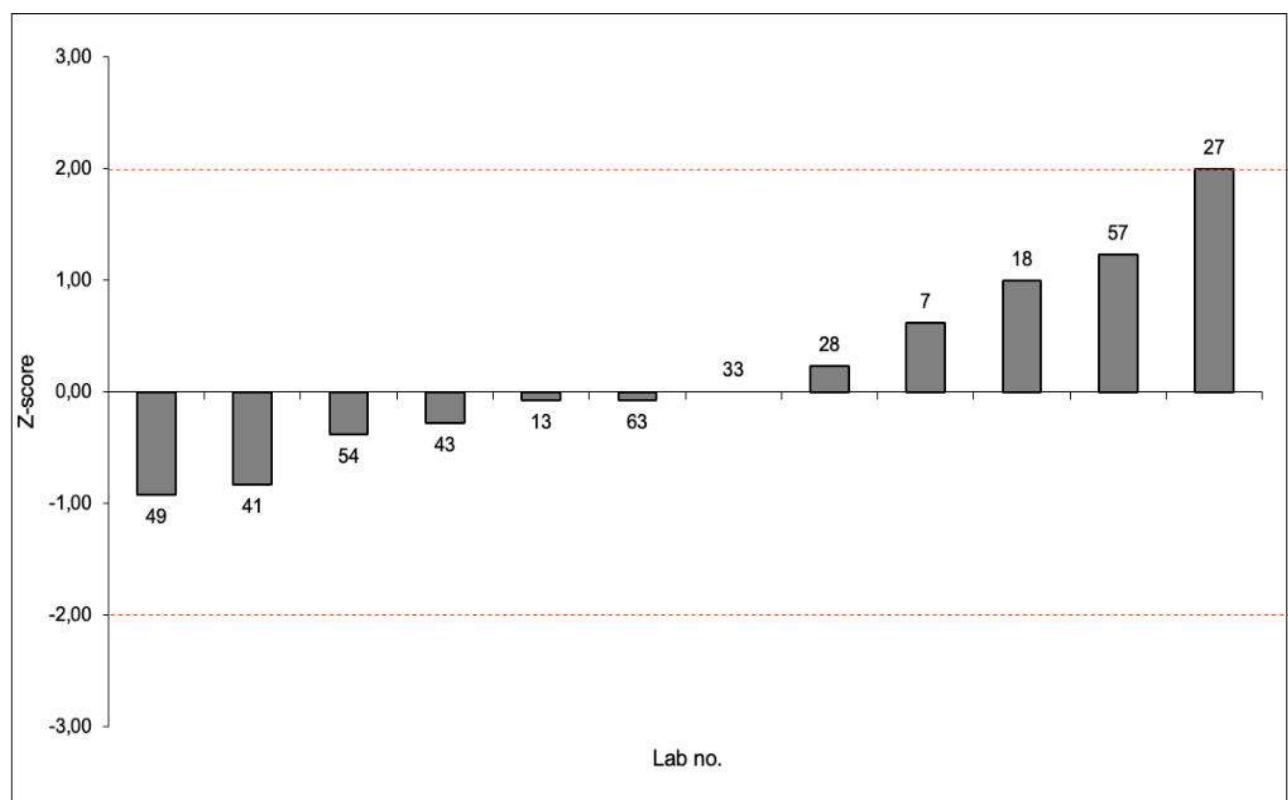
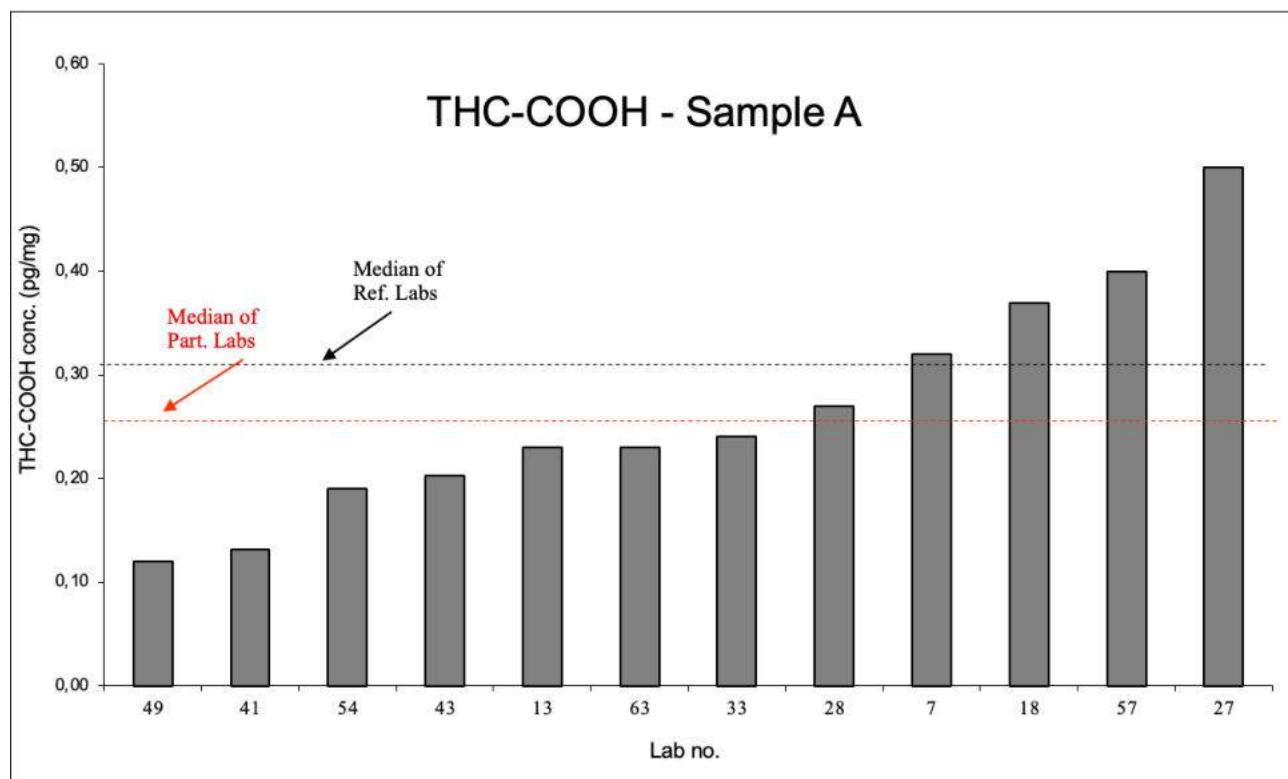
Average	0.12
SD	0.04
CV%	34.45
Median	0.11
Minimum	0.05
Quartile 25	0.09
Quartile 75	0.15
Maximum	0.21
Iqr	0.07



**11-nor- Δ^9 -TETRAHYDROCANNABINOL-9-CARBOXYLIC ACID
(THC-COOH)**

Lab	THC-COOH (pg/mg)	Z-score	Result
5	N		
7	0.32	0.62	Satisfactory
13	0.23	-0.08	Satisfactory
18	0.37	0.99	Satisfactory
22	N		
27	0.50	2.00	Questionable
28	0.27	0.23	Satisfactory
33	0.24	0.00	Satisfactory
39	N		
41	0.13	-0.83	Satisfactory
43	0.20	-0.28	Satisfactory
46	U		
49	0.12	-0.92	Satisfactory
51	N		
54	0.19	-0.38	Satisfactory
56	N		
57	0.40	1.23	Satisfactory
63	0.23	-0.08	Satisfactory
68	N		

Average	0.27
SD	0.11
CV%	40.24
Median	0.24
Minimum	0.12
Quartile 25	0.20
Quartile 75	0.33
Maximum	0.50
Iqr	0.13

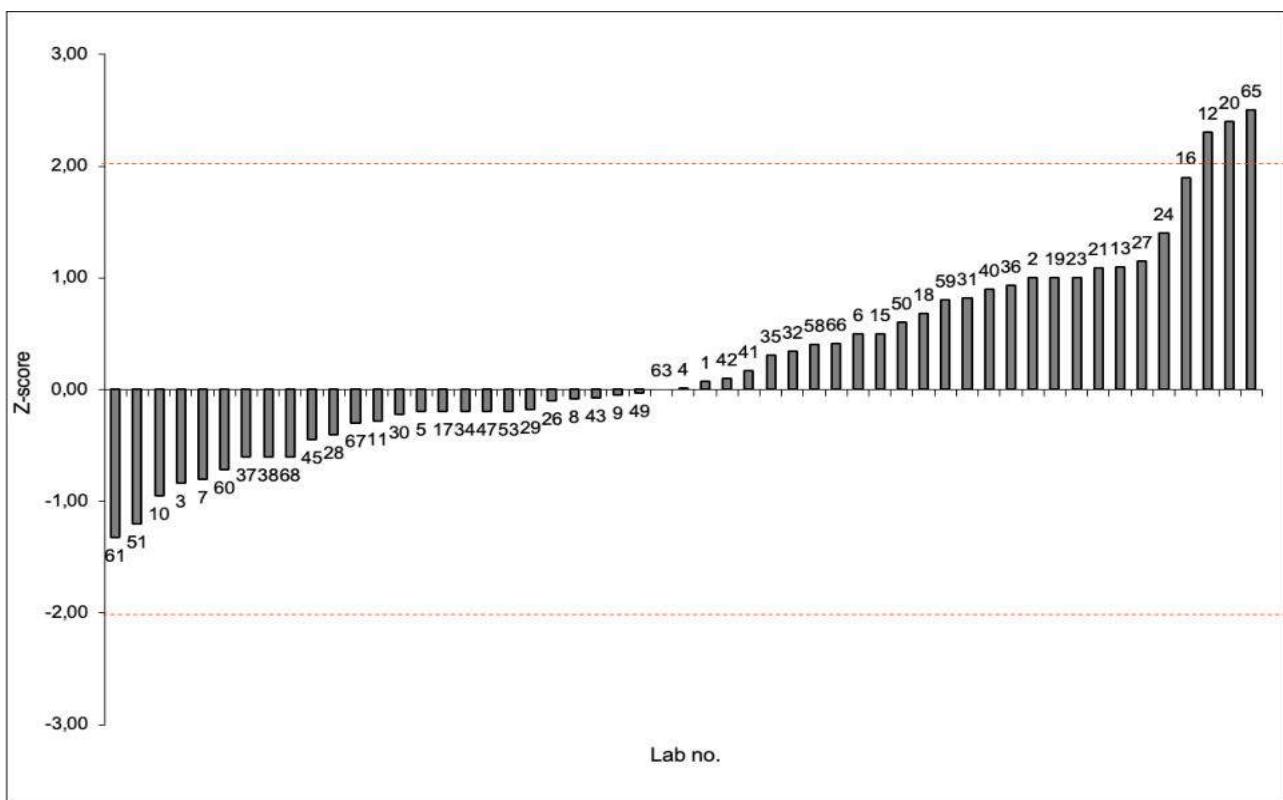
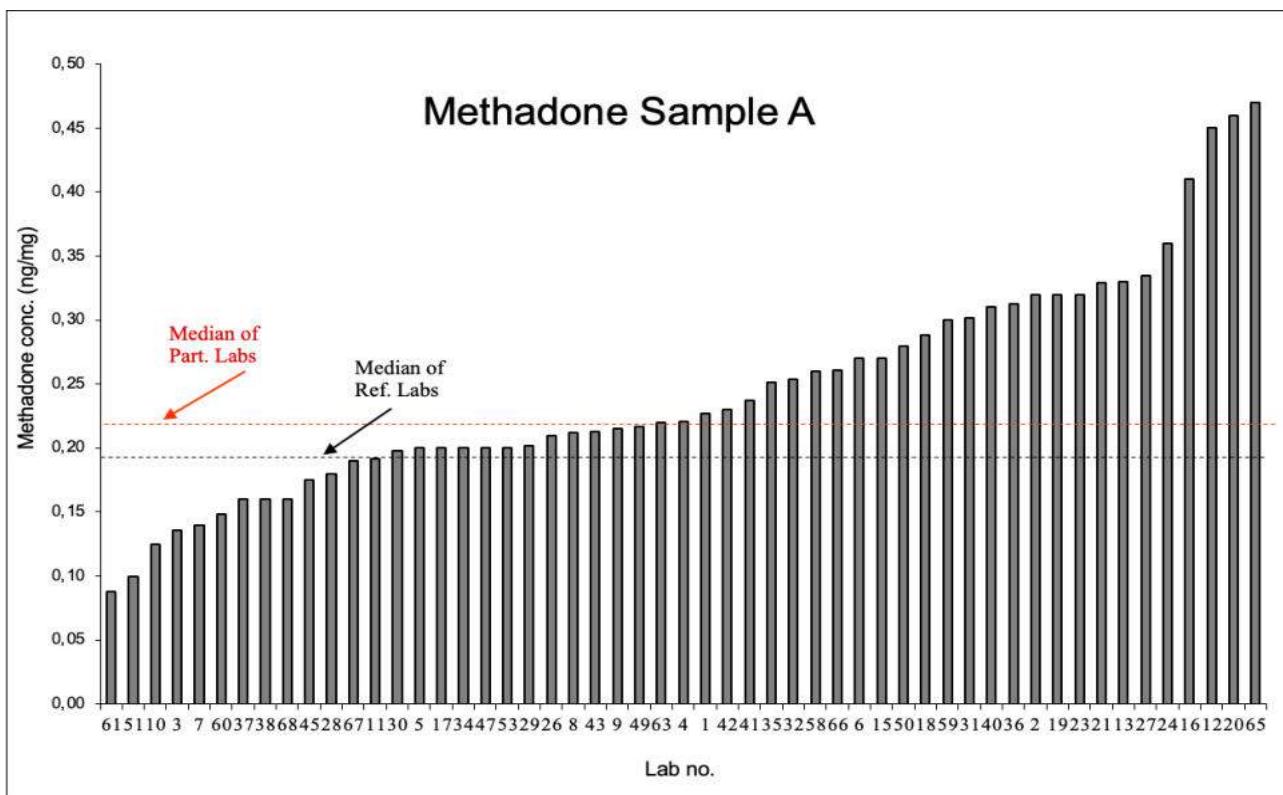


METHADONE

Lab	Methadone (ng/mg)	Z-score	Result
1	0.23	0.07	Satisfactory
2	0.32	1.00	Satisfactory
3	0.14	-0.84	Satisfactory
4	0.22	0.01	Satisfactory
5	0.20	-0.20	Satisfactory
6	0.27	0.50	Satisfactory
7	0.14	-0.80	Satisfactory
8	0.21	-0.08	Satisfactory
9	0.22	-0.05	Satisfactory
10	0.13	-0.95	Satisfactory
11	0.19	-0.28	Satisfactory
12	0.45	2.30	Questionable
13	0.33	1.10	Satisfactory
15	0.27	0.50	Satisfactory
16	0.41	1.90	Satisfactory
17	0.20	-0.20	Satisfactory
18	0.29	0.68	Satisfactory
19	0.32	1.00	Satisfactory
20	0.46	2.40	Questionable
21	0.33	1.09	Satisfactory
23	0.32	1.00	Satisfactory
24	0.36	1.40	Satisfactory
25	N		
26	0.21	-0.10	Satisfactory
27	0.34	1.15	Satisfactory
28	0.18	-0.40	Satisfactory
29	0.20	-0.18	Satisfactory
30	0.20	-0.22	Satisfactory
31	0.30	0.82	Satisfactory
32	0.25	0.34	Satisfactory
34	0.20	-0.20	Satisfactory
35	0.25	0.31	Satisfactory
36	0.31	0.93	Satisfactory
37	0.16	-0.60	Satisfactory
38	0.16	-0.60	Satisfactory
39	N		
40	0.31	0.90	Satisfactory
41	0.24	0.17	Satisfactory
42	0.23	0.10	Satisfactory
43	0.21	-0.07	Satisfactory
45	0.18	-0.45	Satisfactory
46	U		
47	0.20	-0.20	Satisfactory
48	N		
49	0.22	-0.03	Satisfactory
50	0.28	0.60	Satisfactory
51	0.10	-1.20	Satisfactory
52	N		
53	0.20	-0.20	Satisfactory
54	N		
55	N		

Lab	Methadone (ng/mg)	Z-score	Result
58	0.26	0.40	Satisfactory
59	0.30	0.80	Satisfactory
60	0.15	-0.71	Satisfactory
61	0.09	-1.32	Satisfactory
63	0.22	0.00	Satisfactory
64	N		
65	0.47	2.50	Questionable
66	0.26	0.41	Satisfactory
67	0.19	-0.30	Satisfactory
68	0.16	-0.60	Satisfactory

Average	0.25
SD	0.09
CV%	34.85
Median	0.22
Minimum	0.09
Quartile 25	0.20
Quartile 75	0.30
Maximum	0.47
Iqr	0.10



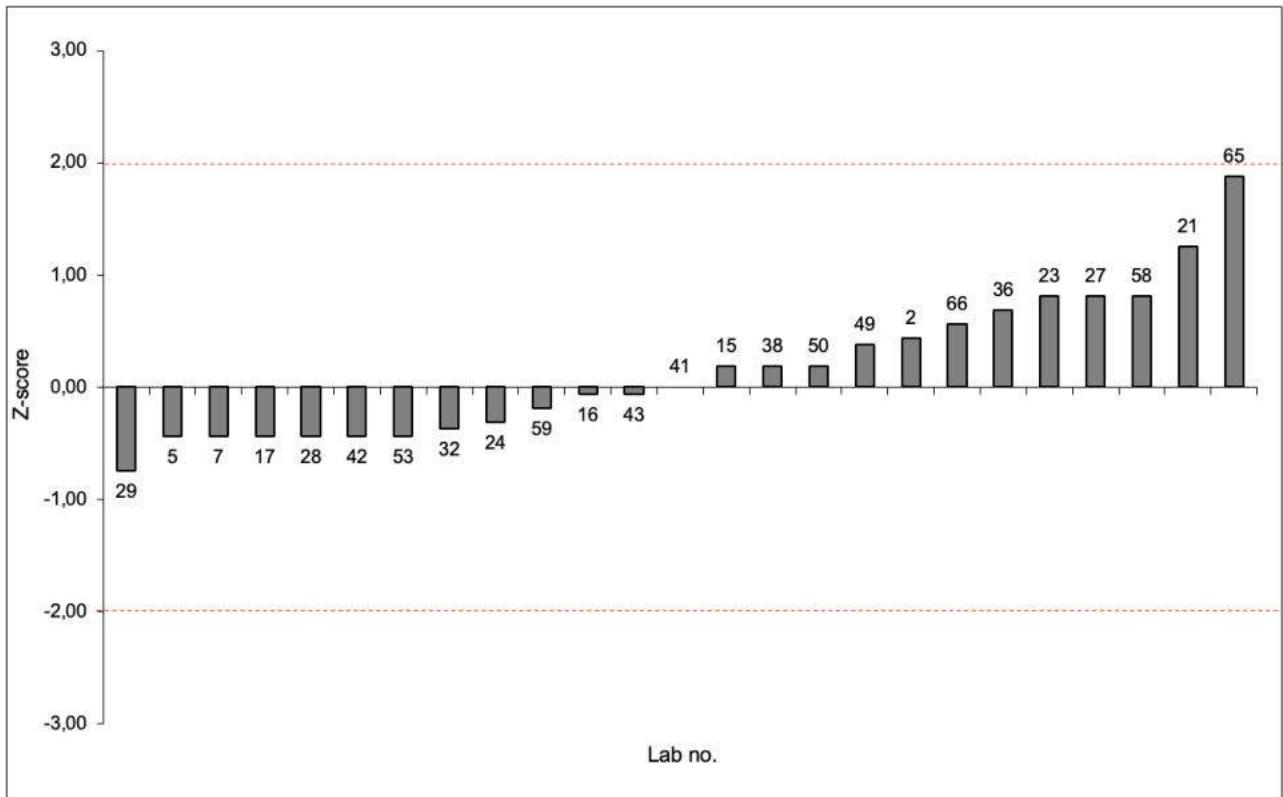
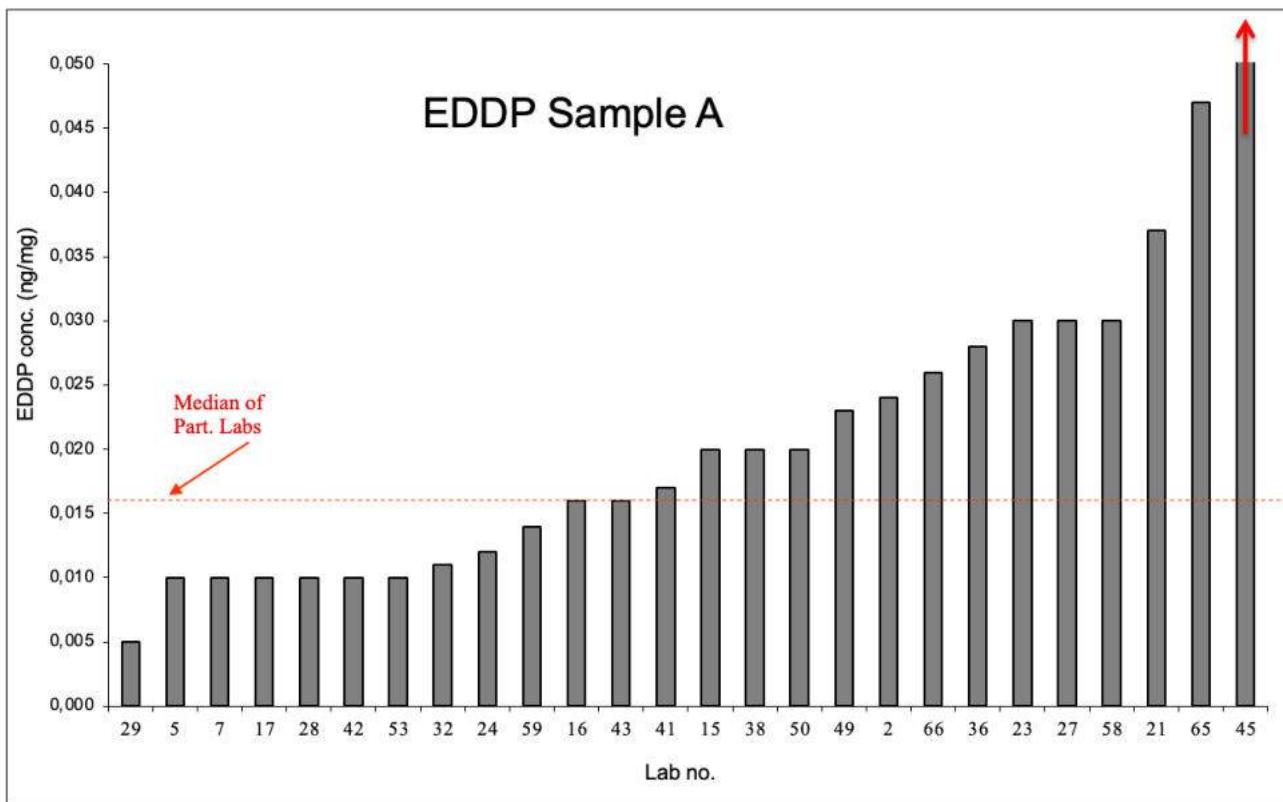
2-ETHYLIDENE-1, 5-DIMETHYL-3, 3-DIPHENYLPYRROLIDINE (EDDP)

Lab	EDDP (ng/mg)	Z-score	Result
1	<0.10		
2	0.024	0.44	Satisfactory
3	N		
4	N		
5	0.010	-0.44	Satisfactory
6	P		
7	0.010	-0.44	Satisfactory
8	N		
9	N		
11	N		
12	N		
13	N		
15	0.020	0.19	Satisfactory
16	0.016	-0.06	Satisfactory
17	0.010	-0.44	Satisfactory
18	N		
20	<0.01		
21	0.037	1.25	Satisfactory
23	0.030	0.81	Satisfactory
24	0.012	-0.31	Satisfactory
25	N		
26	P		
27	0.030	0.81	Satisfactory
28	0.010	-0.44	Satisfactory
29	0.005	-0.75	Satisfactory
30	N		
31	< 0.05		
32	0.011	-0.38	Satisfactory
34	N		
35	< 0.025		
36	0.028	0.69	Satisfactory
37	N		
38	0.020	0.19	Satisfactory
39	N		
41	0.017	0.00	Satisfactory
42	0.010	-0.44	Satisfactory
43	0.016	-0.06	Satisfactory
45	0.330	Outlier*	
46	U		
47	N		
49	0.023	0.38	Satisfactory
50	0.020	0.19	Satisfactory
51	N		
52	N		
53	0.010	-0.44	Satisfactory
54	N		
58	0.030	0.81	Satisfactory
59	0.014	-0.19	Satisfactory
60	Traces		
61	N		
63	N		
64	N		

Lab	EDDP (ng/mg)	Z-score	Result
65	0.047	1.88	Satisfactory
66	0.026	0.56	Satisfactory
67	P		
68	N		

* Lab 45 has not been included in the statistical study

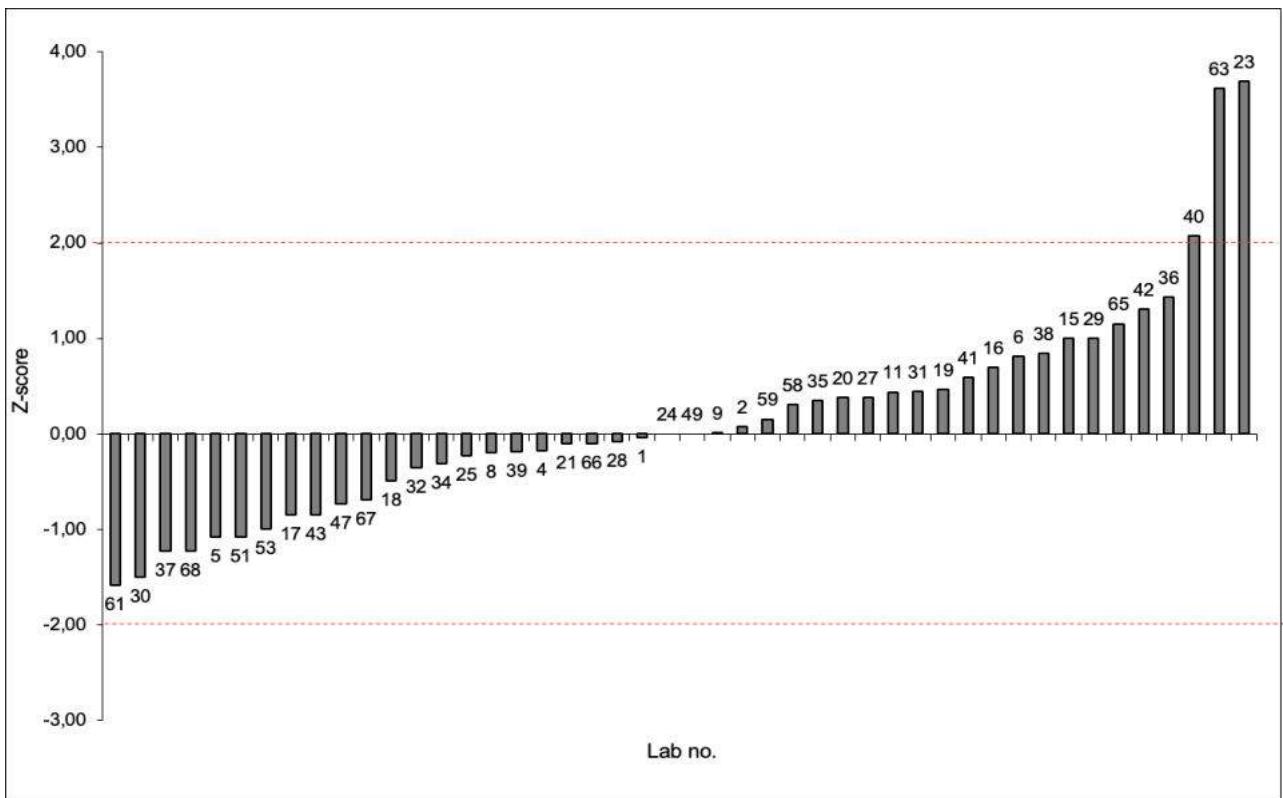
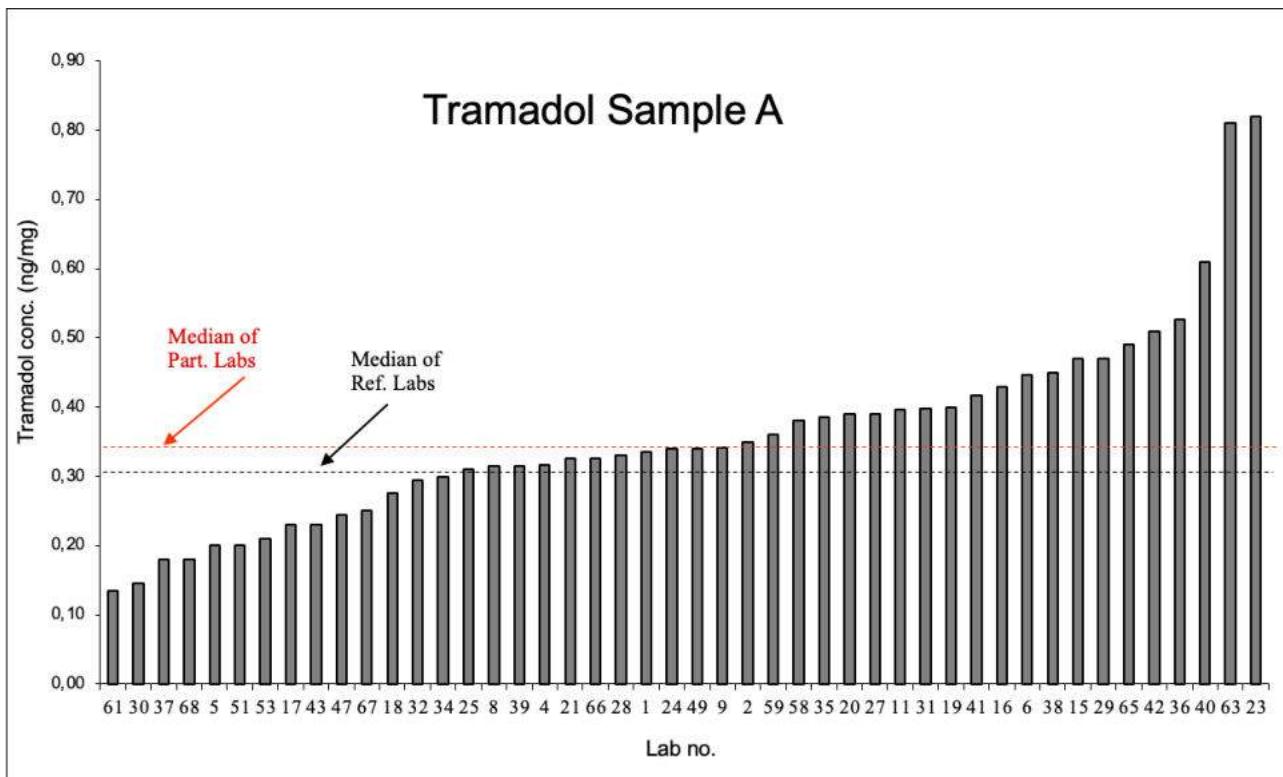
Average	0.019
SD	0.010
CV%	51.256
Median	0.017
Minimum	0.005
Quartile 25	0.010
Quartile 75	0.026
Maximum	0.047
Iqr	0.016



TRAMADOL

Lab	Tramadol (ng/mg)	Z-score	Result
1	0.34	-0.04	Satisfactory
2	0.35	0.08	Satisfactory
4	0.32	-0.18	Satisfactory
5	0.20	-1.08	Satisfactory
6	0.45	0.82	Satisfactory
8	0.32	-0.19	Satisfactory
9	0.34	0.02	Satisfactory
11	0.40	0.44	Satisfactory
15	0.47	1.00	Satisfactory
16	0.43	0.69	Satisfactory
17	0.23	-0.85	Satisfactory
18	0.28	-0.49	Satisfactory
19	0.40	0.46	Satisfactory
20	0.39	0.38	Satisfactory
21	0.33	-0.11	Satisfactory
23	0.82	3.69	Unsatisfactory
24	0.34	0.00	Satisfactory
25	0.31	-0.23	Satisfactory
27	0.39	0.38	Satisfactory
28	0.33	-0.08	Satisfactory
29	0.47	1.00	Satisfactory
30	0.15	-1.50	Satisfactory
31	0.40	0.45	Satisfactory
32	0.29	-0.35	Satisfactory
34	0.30	-0.31	Satisfactory
35	0.39	0.35	Satisfactory
36	0.53	1.43	Satisfactory
37	0.18	-1.23	Satisfactory
38	0.45	0.85	Satisfactory
39	0.32	-0.19	Satisfactory
40	0.61	2.08	Questionable
41	0.42	0.59	Satisfactory
42	0.51	1.31	Satisfactory
43	0.23	-0.85	Satisfactory
46	U		
47	0.24	-0.74	Satisfactory
49	0.34	0.00	Satisfactory
51	0.20	-1.08	Satisfactory
52	N		
53	0.21	-1.00	Satisfactory
54	N		
58	0.38	0.31	Satisfactory
59	0.36	0.15	Satisfactory
61	0.13	-1.58	Satisfactory
63	0.81	3.62	Unsatisfactory
65	0.49	1.15	Satisfactory
66	0.33	-0.11	Satisfactory
67	0.25	-0.69	Satisfactory
68	0.18	-1.23	Satisfactory

Average	0.36
SD	0.14
CV%	39.31
Median	0.34
Minimum	0.13
Quartile 25	0.28
Quartile 75	0.41
Maximum	0.82
Iqr	0.13

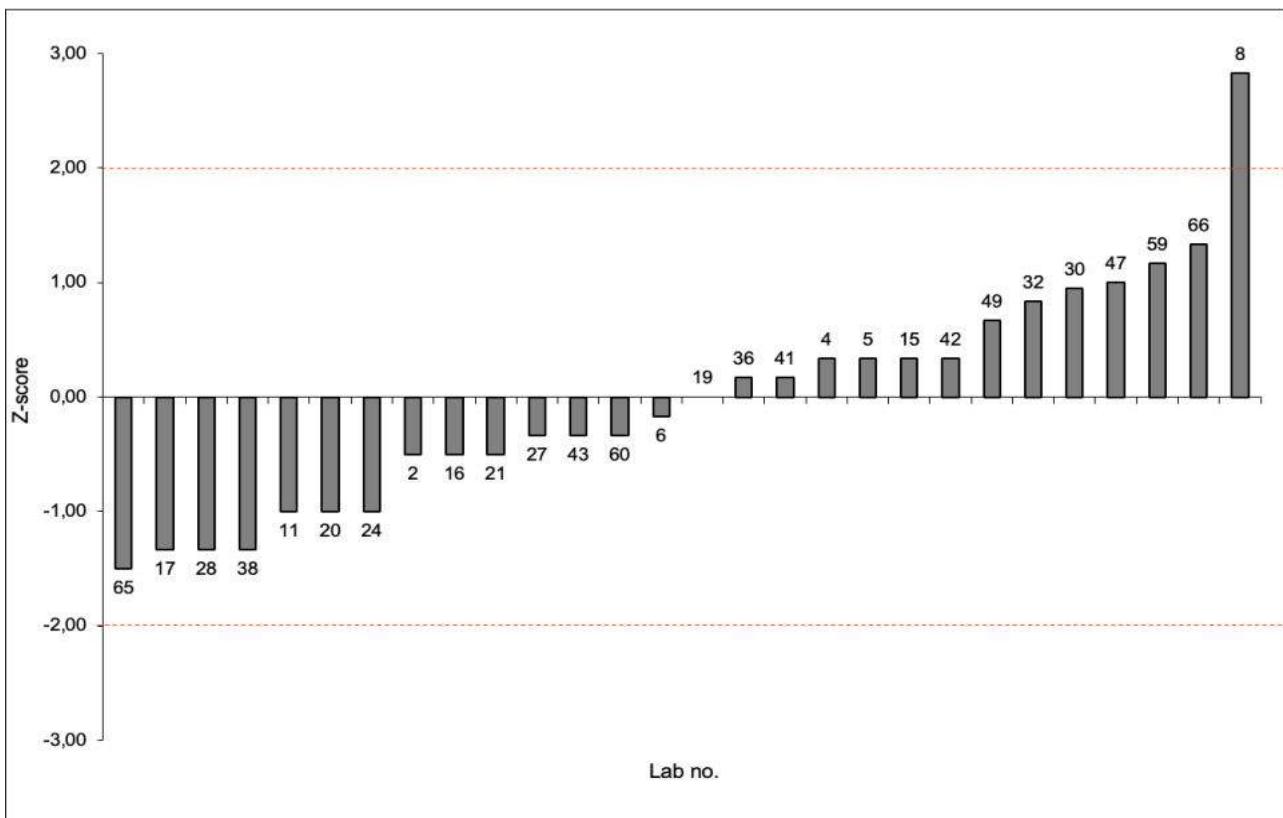
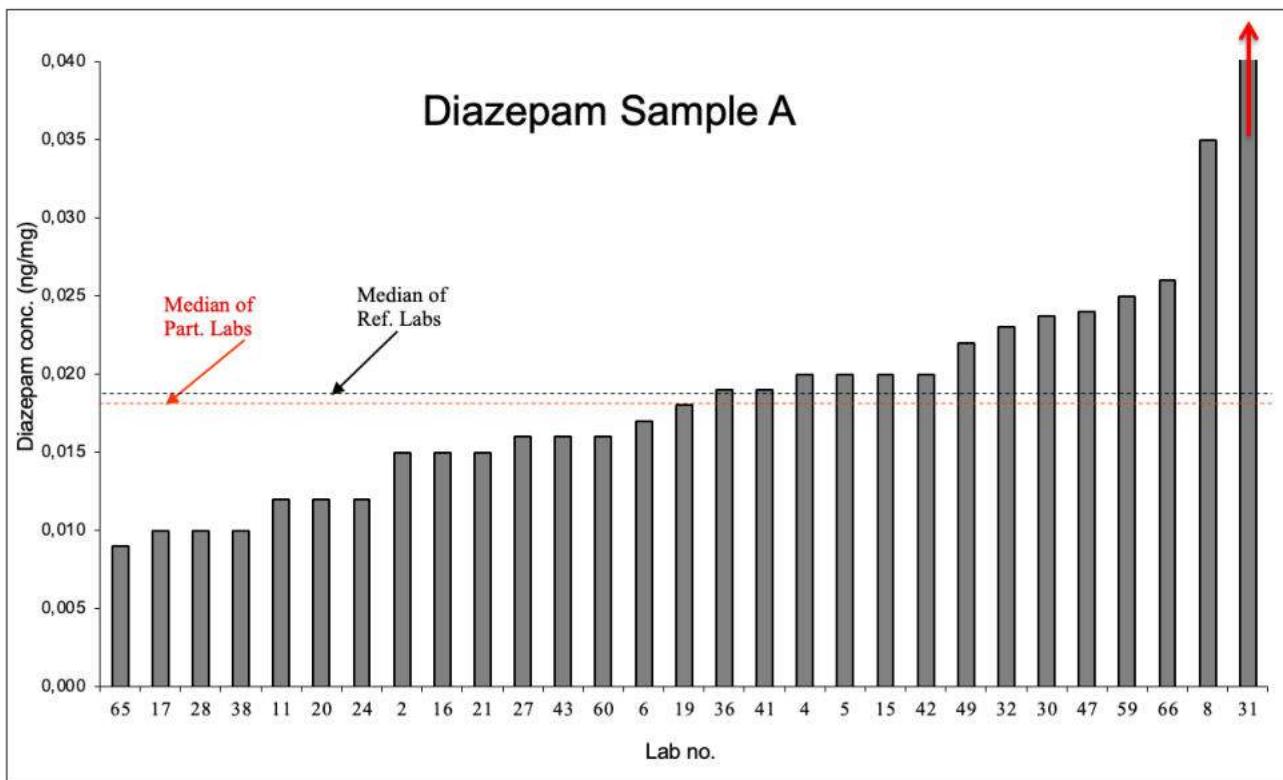


DIAZEPAM

Lab	Diazepam (ng/mg)	Z-score	Result
1	<0.05		
2	0.015	-0.50	Satisfactory
3	N		
4	0.020	0.33	Satisfactory
5	0.020	0.33	Satisfactory
6	0.017	-0.17	Satisfactory
8	0.035	2.83	Questionable
11	0.012	-1.00	Satisfactory
14	N		
15	0.020	0.33	Satisfactory
16	0.015	-0.50	Satisfactory
17	0.010	-1.33	Satisfactory
18	N		
19	0.018	0.00	Satisfactory
20	0.012	-1.00	Satisfactory
21	0.015	-0.50	Satisfactory
22	N		
23	N		
24	0.012	-1.00	Satisfactory
26	N		
27	0.016	-0.33	Satisfactory
28	0.010	-1.33	Satisfactory
29	N		
30	0.024	0.95	Satisfactory
31	0.067	Outlier	
32	0.023	0.83	Satisfactory
34	N		
35	< 0.125		
36	0.019	0.17	Satisfactory
37	N		
38	0.010	-1.33	Satisfactory
39	N		
40	N		
41	0.019	0.17	Satisfactory
42	0.020	0.33	Satisfactory
43	0.016	-0.33	Satisfactory
46	U		
47	0.024	1.00	Satisfactory
49	0.022	0.67	Satisfactory
51	N		
54	N		
55	N		
58	n		
59	0.025	1.17	Satisfactory
60	0.016	-0.33	Satisfactory
61	N		
63	N		
65	0.009	-1.50	Satisfactory
66	0.026	1.33	Satisfactory
68	N		

Average	0.018
SD	0.006
CV%	32.636
Median	0.018
Minimum	0.009
Quartile 25	0.014
Quartile 75	0.021
Maximum	0.035
Iqr	0.006

* Lab 31 ha not been included in hte statistical study



SAMPLE B

Sample B was a drug free hair sample.

SAMPLE C

Sample C contents were as follows:

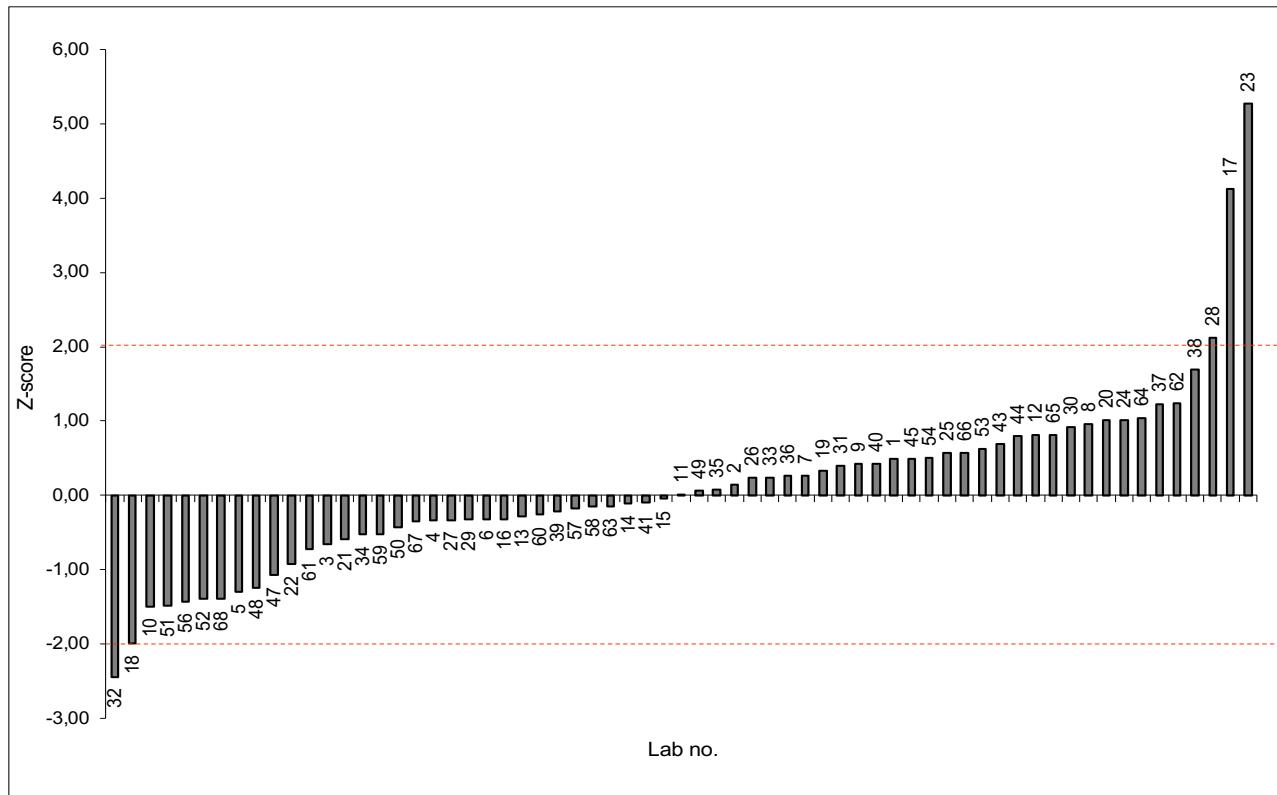
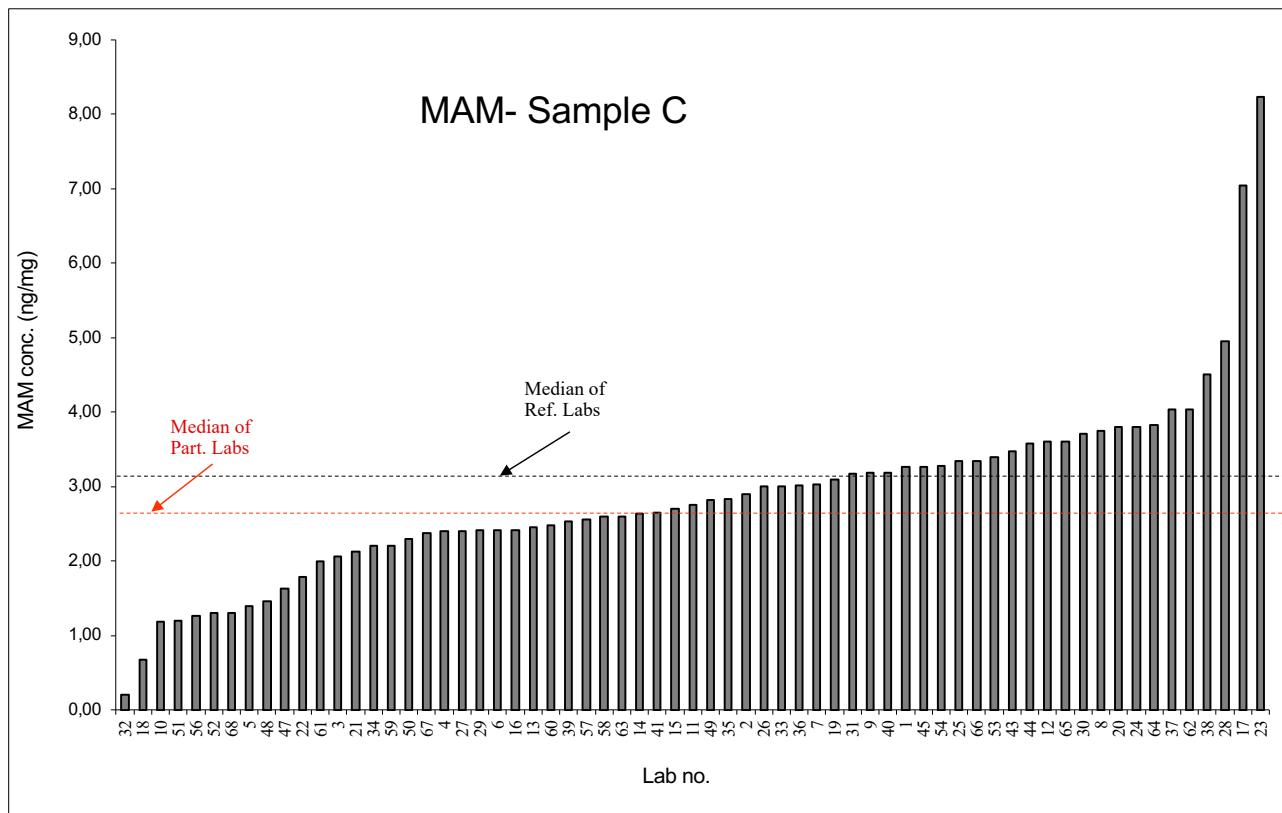
- Opiate compounds: 6-MAM, morphine, and codeine
- Cocaine compounds: cocaine, benzoylecgonine, cocaethylene, and norcocaine
- Cannabis: THC and THC-COOH
- Methadone and EDDP
- Tramadol
- Diazepam and nordazepam

6-MONOACETYL MORPHINE (MAM)

Lab	MAM (ng/mg)	Z-score	Result
1	3.26	0.49	Satisfactory
2	2.90	0.14	Satisfactory
3	2.06	-0.66	Satisfactory
4	2.40	-0.34	Satisfactory
5	1.40	-1.30	Satisfactory
6	2.42	-0.32	Satisfactory
7	3.03	0.27	Satisfactory
8	3.74	0.96	Satisfactory
9	3.19	0.42	Satisfactory
10	1.19	-1.50	Satisfactory
11	2.75	0.00	Satisfactory
12	3.60	0.82	Satisfactory
13	2.45	-0.29	Satisfactory
14	2.64	-0.11	Satisfactory
15	2.70	-0.05	Satisfactory
16	2.42	-0.32	Satisfactory
17	7.04	4.13	Unsatisfactory
18	0.68	-1.99	Satisfactory
19	3.10	0.34	Satisfactory
20	3.80	1.01	Satisfactory
21	2.13	-0.60	Satisfactory
22	1.79	-0.93	Satisfactory
23	8.24	5.28	Unsatisfactory
24	3.80	1.01	Satisfactory
25	3.34	0.57	Satisfactory
26	3.00	0.24	Satisfactory
27	2.40	-0.34	Satisfactory
28	4.95	2.12	Questionable
29	2.41	-0.33	Satisfactory
30	3.71	0.92	Satisfactory
31	3.17	0.40	Satisfactory
32	0.20	-2.45	Questionable
33	3.00	0.24	Satisfactory
34	2.20	-0.53	Satisfactory
35	2.83	0.08	Satisfactory
36	3.02	0.26	Satisfactory
37	4.03	1.23	Satisfactory
38	4.51	1.69	Satisfactory
39	2.53	-0.21	Satisfactory
40	3.19	0.42	Satisfactory
41	2.64	-0.10	Satisfactory
42	> 1.50		
43	3.47	0.69	Satisfactory
44	3.58	0.79	Satisfactory
45	3.26	0.49	Satisfactory
46	P		
47	1.63	-1.08	Satisfactory
48	1.46	-1.24	Satisfactory
49	2.82	0.07	Satisfactory
50	2.30	-0.43	Satisfactory
51	1.20	-1.49	Satisfactory
52	1.30	-1.39	Satisfactory

Lab	MAM (ng/mg)	Z-score	Result
53	3.40	0.63	Satisfactory
54	3.27	0.50	Satisfactory
56	1.26	-1.43	Satisfactory
57	2.56	-0.18	Satisfactory
58	2.60	-0.14	Satisfactory
59	2.21	-0.52	Satisfactory
60	2.48	-0.26	Satisfactory
61	1.99	-0.73	Satisfactory
62	4.04	1.24	Satisfactory
63	2.60	-0.14	Satisfactory
64	3.83	1.04	Satisfactory
65	3.60	0.82	Satisfactory
66	3.34	0.57	Satisfactory
67	2.38	-0.36	Satisfactory
68	1.30	-1.39	Satisfactory

Average	2.86
SD	1.25
CV%	43.59
Median	2.75
Minimum	0.20
Quartile 25	2.30
Quartile 75	3.34
Maximum	8.24
Iqr	1.04

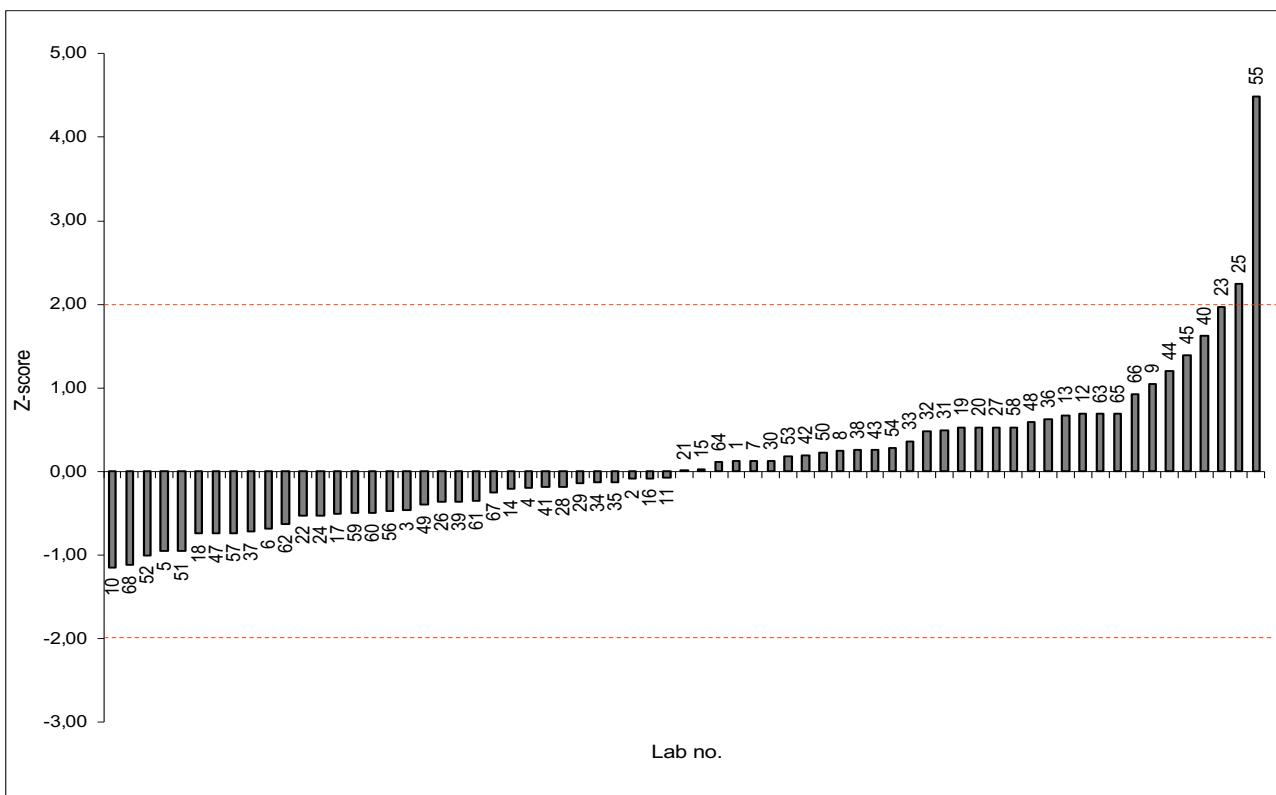
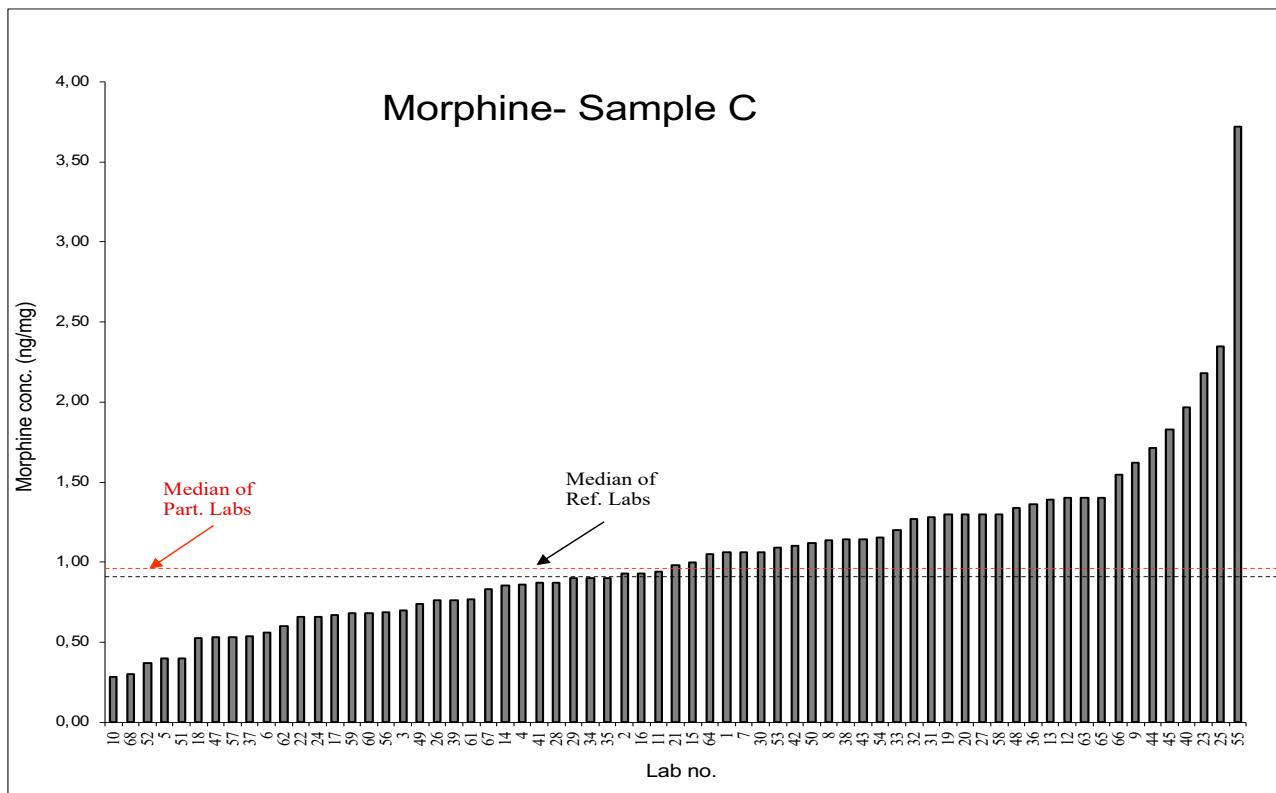


MORPHINE

Lab	Morphine (ng/mg)	Z-score	Result
1	1.06	0.13	Satisfactory
2	0.93	-0.08	Satisfactory
3	0.70	-0.46	Satisfactory
4	0.86	-0.19	Satisfactory
5	0.40	-0.95	Satisfactory
6	0.56	-0.68	Satisfactory
7	1.06	0.13	Satisfactory
8	1.14	0.25	Satisfactory
9	1.62	1.05	Satisfactory
10	0.28	-1.15	Satisfactory
11	0.94	-0.07	Satisfactory
12	1.40	0.69	Satisfactory
13	1.39	0.67	Satisfactory
14	0.86	-0.20	Satisfactory
15	1.00	0.03	Satisfactory
16	0.93	-0.08	Satisfactory
17	0.67	-0.51	Satisfactory
18	0.53	-0.74	Satisfactory
19	1.30	0.52	Satisfactory
20	1.30	0.52	Satisfactory
21	0.98	0.00	Satisfactory
22	0.66	-0.52	Satisfactory
23	2.18	1.97	Satisfactory
24	0.66	-0.52	Satisfactory
25	2.35	2.25	Questionable
26	0.76	-0.36	Satisfactory
27	1.30	0.52	Satisfactory
28	0.87	-0.18	Satisfactory
29	0.90	-0.13	Satisfactory
30	1.06	0.13	Satisfactory
31	1.28	0.49	Satisfactory
32	1.27	0.48	Satisfactory
33	1.20	0.36	Satisfactory
34	0.90	-0.13	Satisfactory
35	0.90	-0.13	Satisfactory
36	1.36	0.62	Satisfactory
37	0.54	-0.72	Satisfactory
38	1.14	0.26	Satisfactory
39	0.76	-0.36	Satisfactory
40	1.97	1.62	Satisfactory
41	0.87	-0.18	Satisfactory
42	1.10	0.20	Satisfactory
43	1.14	0.26	Satisfactory
44	1.72	1.20	Satisfactory
45	1.83	1.39	Satisfactory
46	P		
47	0.53	-0.74	Satisfactory
48	1.34	0.59	Satisfactory
49	0.74	-0.40	Satisfactory
50	1.12	0.23	Satisfactory
51	0.40	-0.95	Satisfactory
52	0.37	-1.00	Satisfactory

Lab	Morphine (ng/mg)	Z-score	Result
53	1.09	0.18	Satisfactory
54	1.15	0.28	Satisfactory
55	3.72	4.49	Unsatisfactory
56	0.69	-0.48	Satisfactory
57	0.53	-0.74	Satisfactory
58	1.30	0.52	Satisfactory
59	0.68	-0.49	Satisfactory
60	0.68	-0.49	Satisfactory
61	0.77	-0.34	Satisfactory
62	0.60	-0.62	Satisfactory
63	1.40	0.69	Satisfactory
64	1.05	0.11	Satisfactory
65	1.40	0.69	Satisfactory
66	1.55	0.93	Satisfactory
67	0.83	-0.25	Satisfactory
68	0.30	-1.11	Satisfactory

Average	1.06
SD	0.54
CV%	50.66
Median	0.98
Minimum	0.28
Quartile 25	0.69
Quartile 75	1.30
Maximum	3.72
Iqr	0.61

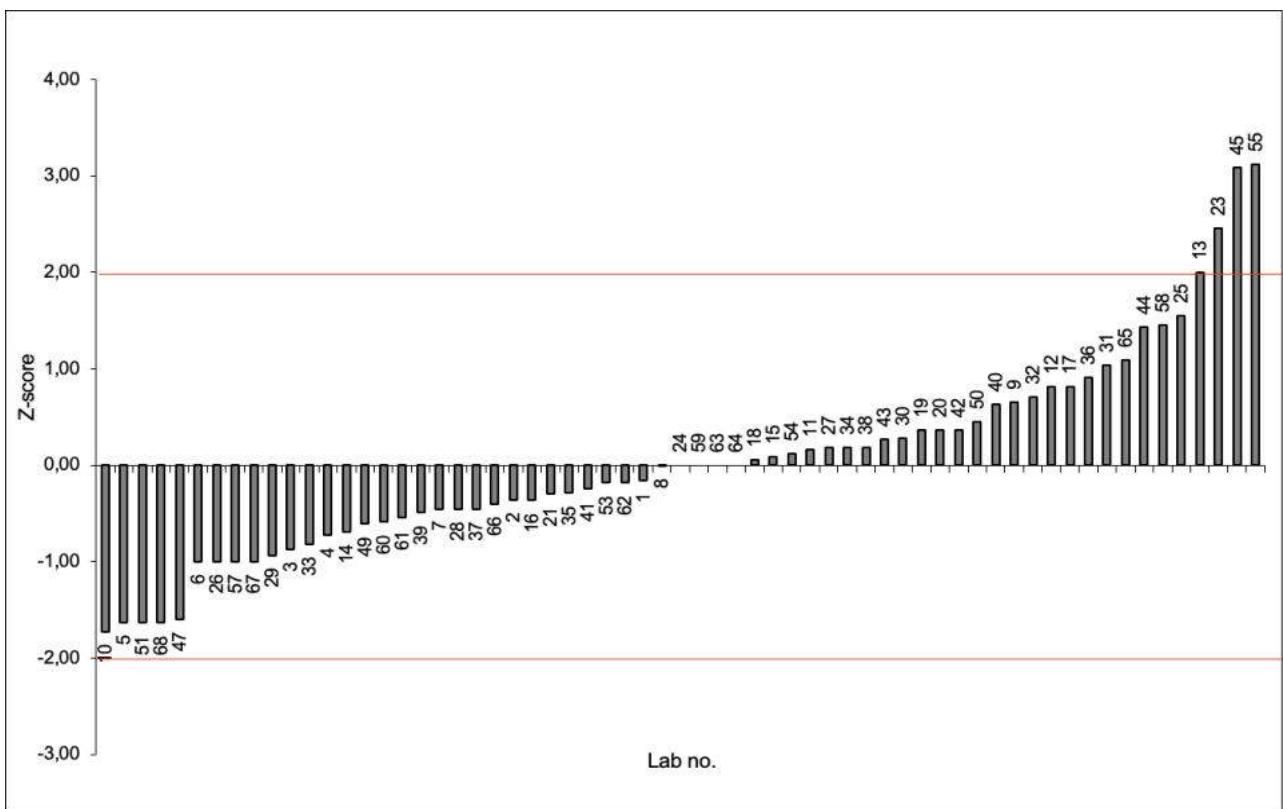
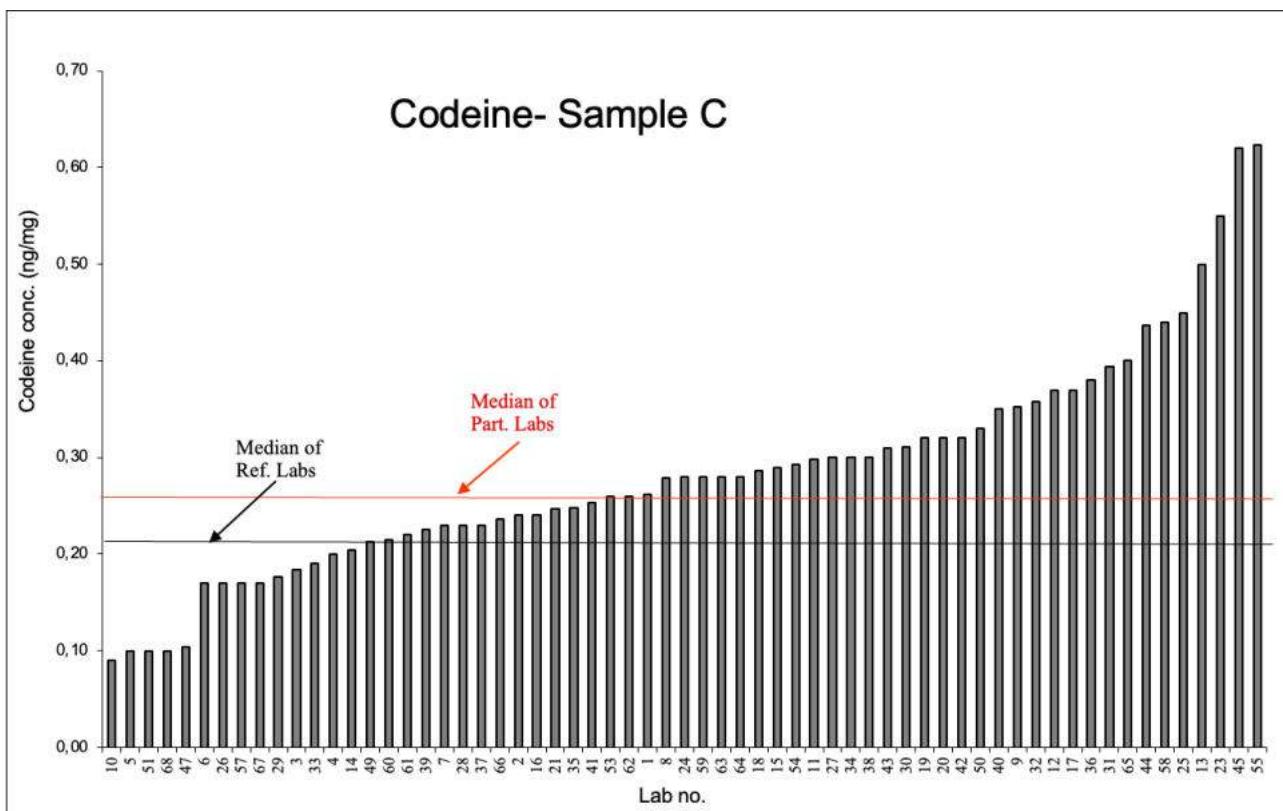


CODEINE

Lab	Codeine (ng/mg)	Z-score	Result
1	0.26	-0.16	Satisfactory
2	0.24	-0.36	Satisfactory
3	0.18	-0.87	Satisfactory
4	0.20	-0.73	Satisfactory
5	0.10	-1.64	Satisfactory
6	0.17	-1.00	Satisfactory
7	0.23	-0.45	Satisfactory
8	0.28	-0.01	Satisfactory
9	0.35	0.65	Satisfactory
10	0.09	-1.73	Satisfactory
11	0.30	0.16	Satisfactory
12	0.37	0.82	Satisfactory
13	0.50	2.00	Questionable
14	0.20	-0.69	Satisfactory
15	0.29	0.09	Satisfactory
16	0.24	-0.36	Satisfactory
17	0.37	0.82	Satisfactory
18	0.29	0.05	Satisfactory
19	0.32	0.36	Satisfactory
20	0.32	0.36	Satisfactory
21	0.25	-0.30	Satisfactory
22	N		
23	0.55	2.45	Questionable
24	0.28	0.00	Satisfactory
25	0.45	1.55	Satisfactory
26	0.17	-1.00	Satisfactory
27	0.30	0.18	Satisfactory
28	0.23	-0.45	Satisfactory
29	0.18	-0.94	Satisfactory
30	0.31	0.28	Satisfactory
31	0.39	1.04	Satisfactory
32	0.36	0.71	Satisfactory
33	0.19	-0.82	Satisfactory
34	0.30	0.18	Satisfactory
35	0.25	-0.29	Satisfactory
36	0.38	0.91	Satisfactory
37	0.23	-0.45	Satisfactory
38	0.30	0.18	Satisfactory
39	0.23	-0.49	Satisfactory
40	0.35	0.64	Satisfactory
41	0.25	-0.25	Satisfactory
42	0.32	0.36	Satisfactory
43	0.31	0.27	Satisfactory
44	0.44	1.43	Satisfactory
45	0.62	3.09	Unsatisfactory
46	U		
47	0.10	-1.60	Satisfactory
48	N		
49	0.21	-0.61	Satisfactory
50	0.33	0.45	Satisfactory
51	0.10	-1.64	Satisfactory
52	N		

Lab	Codeine (ng/mg)	Z-score	Result
53	0.26	-0.18	Satisfactory
54	0.29	0.12	Satisfactory
55	0.62	3.12	Unsatisfactory
56	N		
57	0.17	-1.00	Satisfactory
58	0.44	1.45	Satisfactory
59	0.28	0.00	Satisfactory
60	0.22	-0.59	Satisfactory
61	0.22	-0.55	Satisfactory
62	0.26	-0.18	Satisfactory
63	0.28	0.00	Satisfactory
64	0.28	0.00	Satisfactory
65	0.40	1.09	Satisfactory
66	0.24	-0.40	Satisfactory
67	0.17	-1.00	Satisfactory
68	0.10	-1.64	Satisfactory

Average	0.28
SD	0.11
CV%	39.59
Median	0.28
Minimum	0.09
Quartile 25	0.22
Quartile 75	0.33
Maximum	0.62
Iqr	0.11

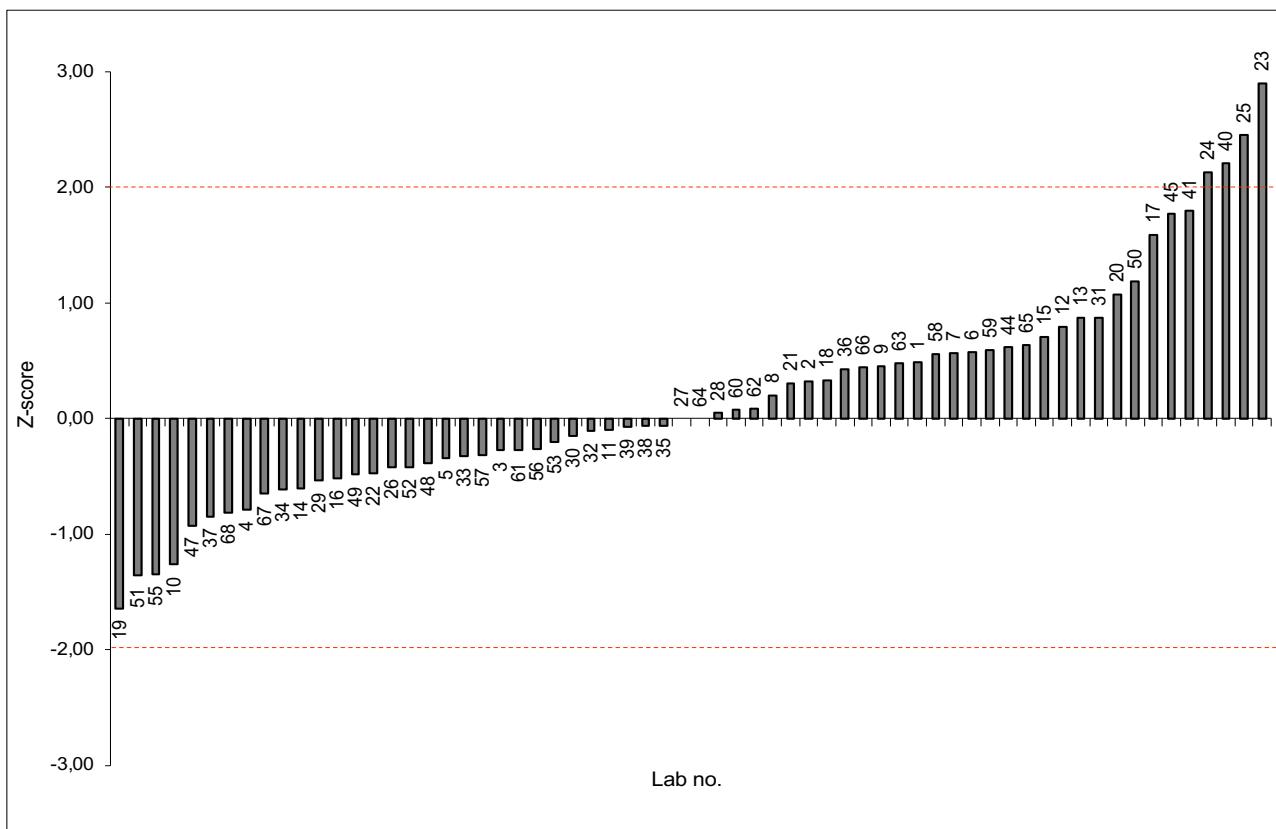
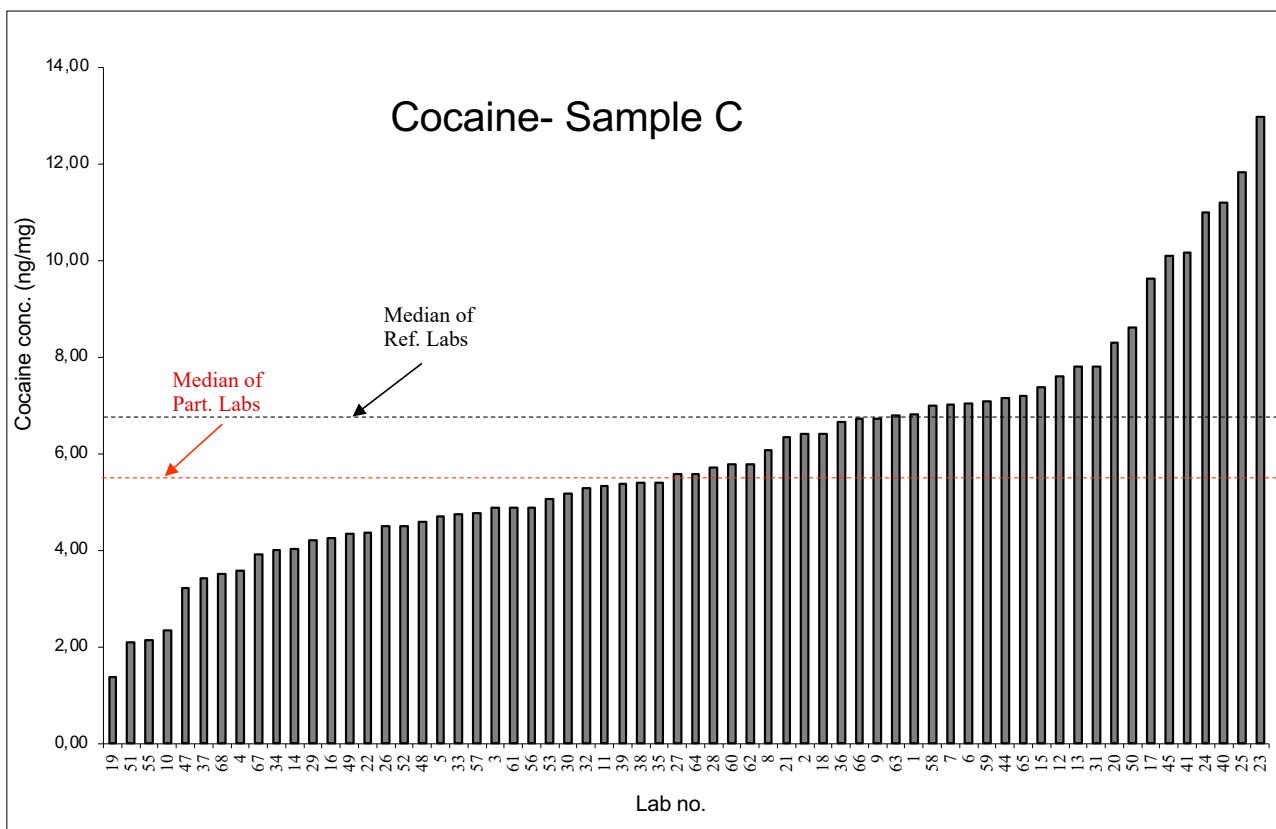


COCAINE

Lab	Cocaine (ng/mg)	Z-score	Result
1	6.81	0.49	Satisfactory
2	6.40	0.33	Satisfactory
3	4.87	-0.27	Satisfactory
4	3.57	-0.79	Satisfactory
5	4.70	-0.34	Satisfactory
6	7.04	0.58	Satisfactory
7	7.01	0.56	Satisfactory
8	6.07	0.20	Satisfactory
9	6.73	0.45	Satisfactory
10	2.35	-1.26	Satisfactory
11	5.33	-0.09	Satisfactory
12	7.60	0.80	Satisfactory
13	7.80	0.87	Satisfactory
14	4.02	-0.61	Satisfactory
15	7.37	0.71	Satisfactory
16	4.25	-0.52	Satisfactory
17	9.62	1.59	Satisfactory
18	6.41	0.33	Satisfactory
19	1.38	-1.64	Satisfactory
20	8.30	1.07	Satisfactory
21	6.35	0.31	Satisfactory
22	4.36	-0.47	Satisfactory
23	12.96	2.90	Questionable
24	11.00	2.13	Questionable
25	11.82	2.45	Questionable
26	4.50	-0.42	Satisfactory
27	5.57	0.00	Satisfactory
28	5.70	0.05	Satisfactory
29	4.20	-0.54	Satisfactory
30	5.18	-0.15	Satisfactory
31	7.80	0.87	Satisfactory
32	5.29	-0.11	Satisfactory
33	4.75	-0.32	Satisfactory
34	4.00	-0.62	Satisfactory
35	5.41	-0.06	Satisfactory
36	6.66	0.43	Satisfactory
37	3.41	-0.85	Satisfactory
38	5.40	-0.07	Satisfactory
39	5.38	-0.07	Satisfactory
40	11.20	2.21	Questionable
41	10.16	1.80	Satisfactory
42	> 4.20		
43	> 5.00		
44	7.15	0.62	Satisfactory
45	10.10	1.78	Satisfactory
46	P		
47	3.21	-0.93	Satisfactory
48	4.58	-0.39	Satisfactory
49	4.33	-0.49	Satisfactory
50	8.60	1.19	Satisfactory
51	2.10	-1.36	Satisfactory
52	4.50	-0.42	Satisfactory

Lab	Cocaine (ng/mg)	Z-score	Result
53	5.05	-0.20	Satisfactory
55	2.14	-1.35	Satisfactory
56	4.89	-0.27	Satisfactory
57	4.76	-0.32	Satisfactory
58	7.00	0.56	Satisfactory
59	7.07	0.59	Satisfactory
60	5.77	0.08	Satisfactory
61	4.87	-0.27	Satisfactory
62	5.78	0.08	Satisfactory
63	6.80	0.48	Satisfactory
64	5.57	0.00	Satisfactory
65	7.20	0.64	Satisfactory
66	6.71	0.45	Satisfactory
67	3.91	-0.65	Satisfactory
68	3.50	-0.81	Satisfactory

Average	6.00
SD	2.34
CV%	38.93
Median	5.57
Minimum	1.38
Quartile 25	4.50
Quartile 75	7.05
Maximum	12.96
Iqr	2.55

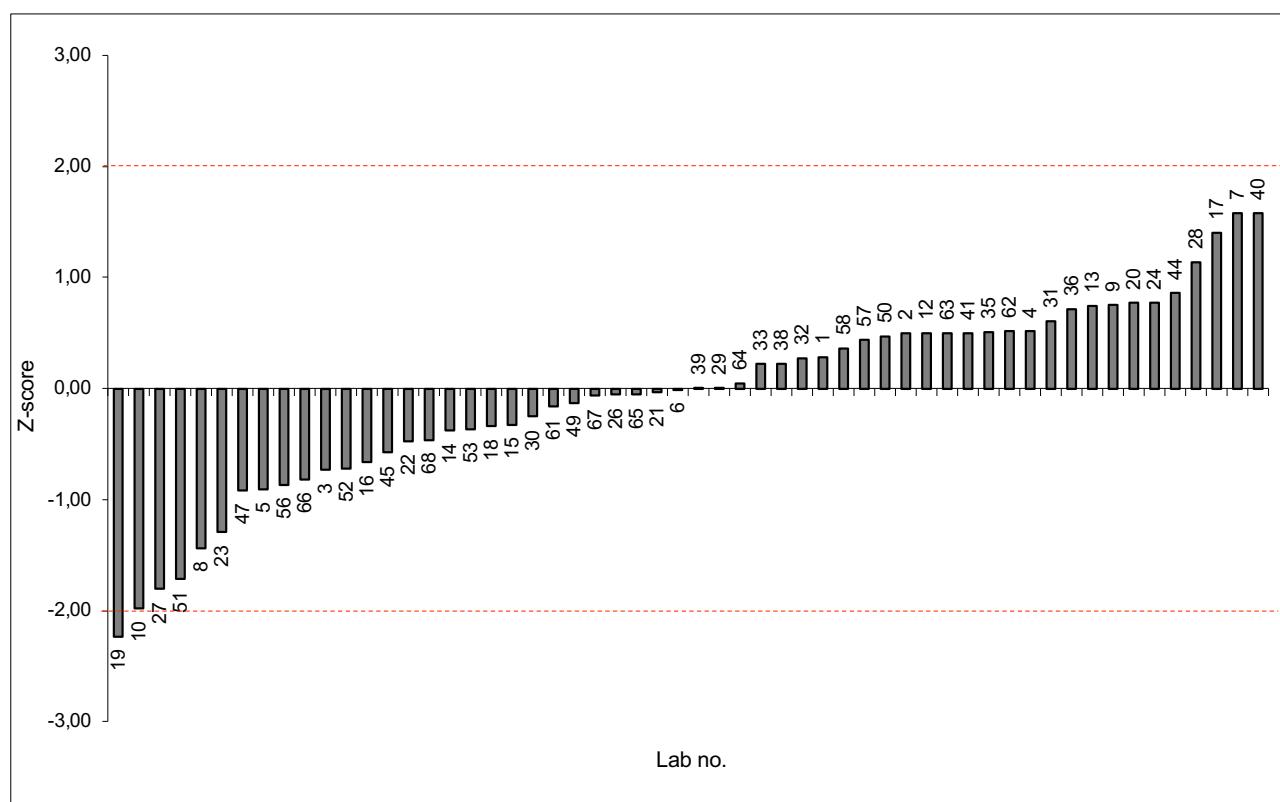
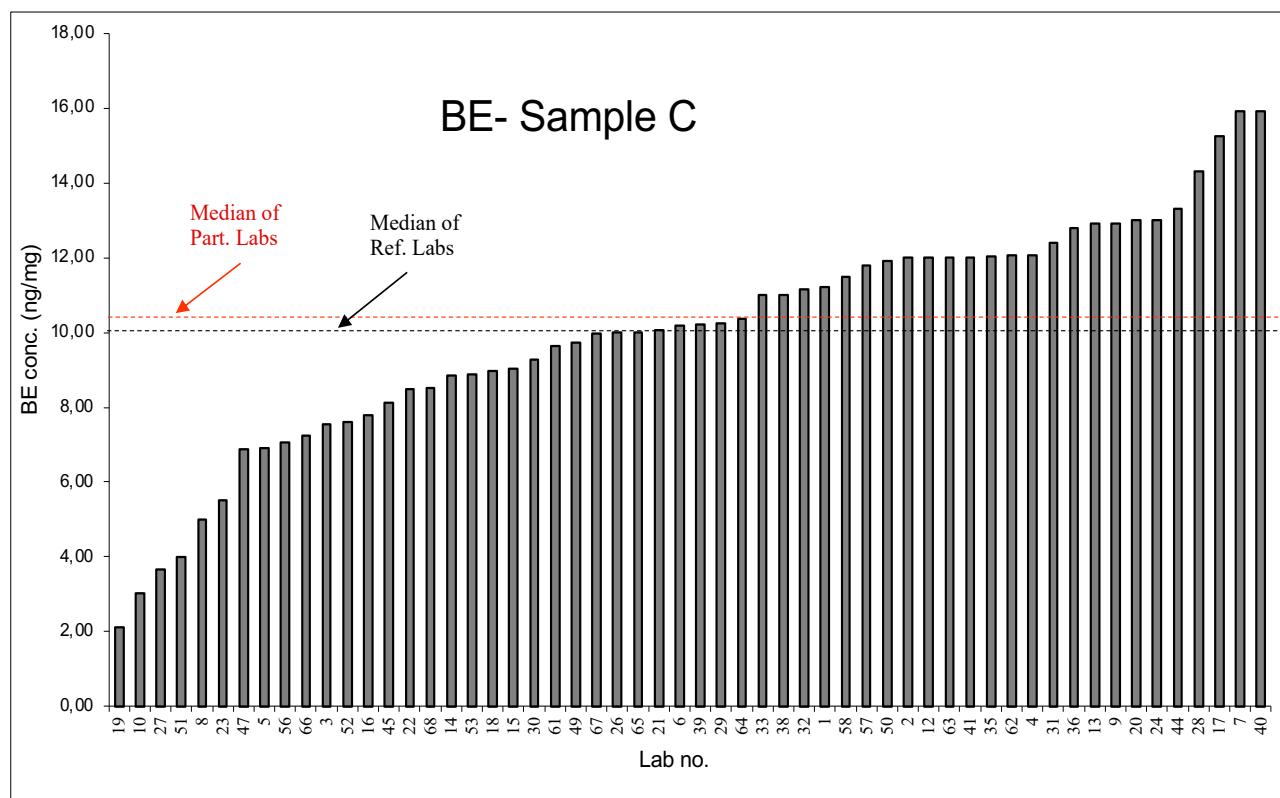


BENZOYLECGONINE (BE)

Lab	BE (ng/mg)	Z-score	Result
1	11.20	0.28	Satisfactory
2	12.00	0.50	Satisfactory
3	7.54	-0.73	Satisfactory
4	12.07	0.52	Satisfactory
5	6.90	-0.91	Satisfactory
6	10.17	-0.01	Satisfactory
7	15.90	1.57	Satisfactory
8	4.99	-1.44	Satisfactory
9	12.93	0.75	Satisfactory
10	3.04	-1.98	Satisfactory
11	> 5.00		
12	12.00	0.50	Satisfactory
13	12.90	0.75	Satisfactory
14	8.85	-0.37	Satisfactory
15	9.02	-0.33	Satisfactory
16	7.79	-0.67	Satisfactory
17	15.26	1.40	Satisfactory
18	8.96	-0.34	Satisfactory
19	2.12	-2.23	Questionable
20	13.00	0.77	Satisfactory
21	10.07	-0.04	Satisfactory
22	8.48	-0.47	Satisfactory
23	5.51	-1.30	Satisfactory
24	13.00	0.77	Satisfactory
25	P		
26	10.00	-0.06	Satisfactory
27	3.66	-1.81	Satisfactory
28	14.30	1.13	Satisfactory
29	10.24	0.01	Satisfactory
30	9.28	-0.25	Satisfactory
31	12.40	0.61	Satisfactory
32	11.17	0.27	Satisfactory
33	11.00	0.22	Satisfactory
34	P		
35	12.03	0.51	Satisfactory
36	12.80	0.72	Satisfactory
37	> 5.00		
38	11.00	0.22	Satisfactory
39	10.22	0.01	Satisfactory
40	15.90	1.57	Satisfactory
41	12.01	0.50	Satisfactory
42	> 4.20		
43	> 5.00		
44	13.30	0.86	Satisfactory
45	8.12	-0.57	Satisfactory
46	P		
47	6.88	-0.92	Satisfactory
49	9.73	-0.13	Satisfactory
50	11.90	0.47	Satisfactory
51	4.00	-1.71	Satisfactory
52	7.60	-0.72	Satisfactory
53	8.88	-0.36	Satisfactory

Lab	BE (ng/mg)	Z-score	Result
55	P		
56	7.06	-0.87	Satisfactory
57	11.78	0.44	Satisfactory
58	11.50	0.36	Satisfactory
59	> 10.00		
60	> 1.00		
61	9.63	-0.16	Satisfactory
62	12.06	0.51	Satisfactory
63	12.00	0.50	Satisfactory
64	10.36	0.04	Satisfactory
65	10.00	-0.06	Satisfactory
66	7.25	-0.82	Satisfactory
67	9.97	-0.06	Satisfactory
68	8.53	-0.46	Satisfactory

Average	10.00
SD	3.03
CV%	30.33
Median	10.20
Minimum	2.12
Quartile 25	8.39
Quartile 75	12.01
Maximum	15.90
Iqr	3.62



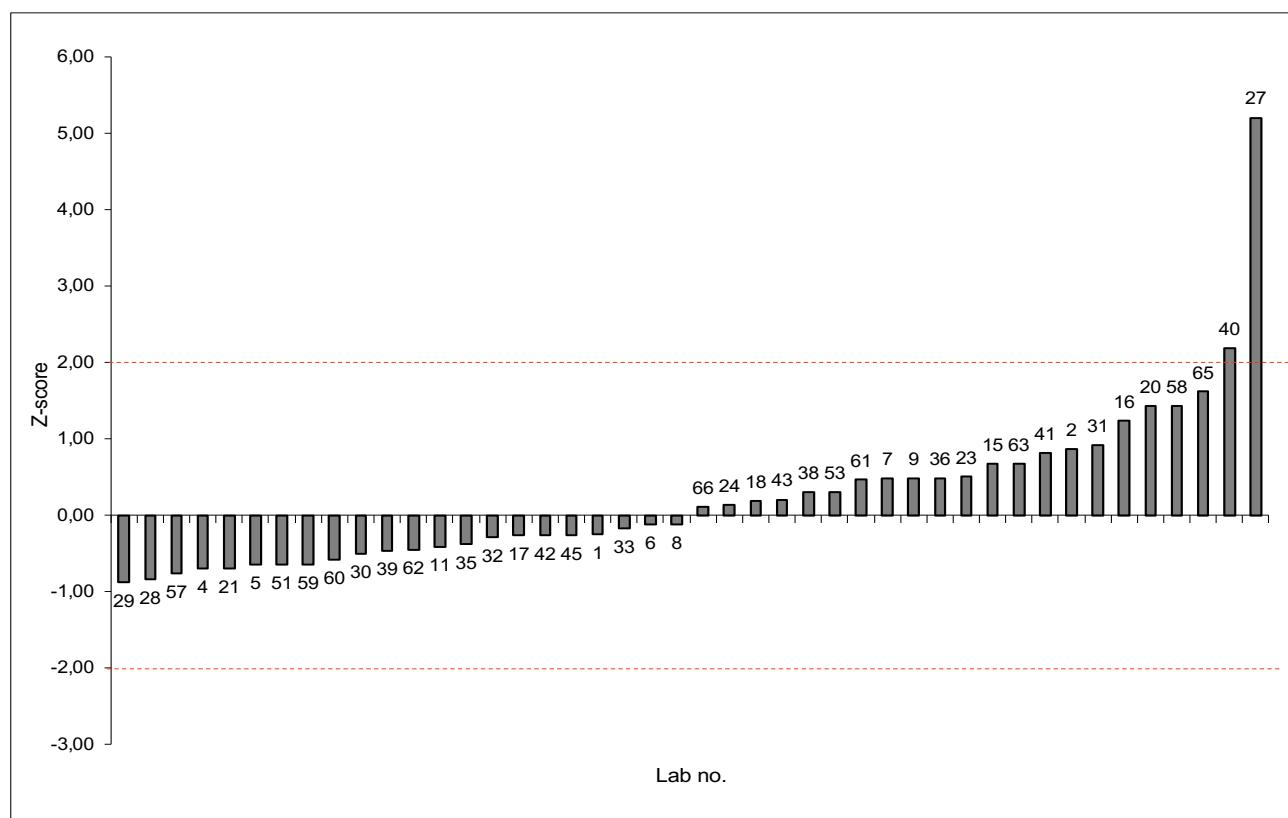
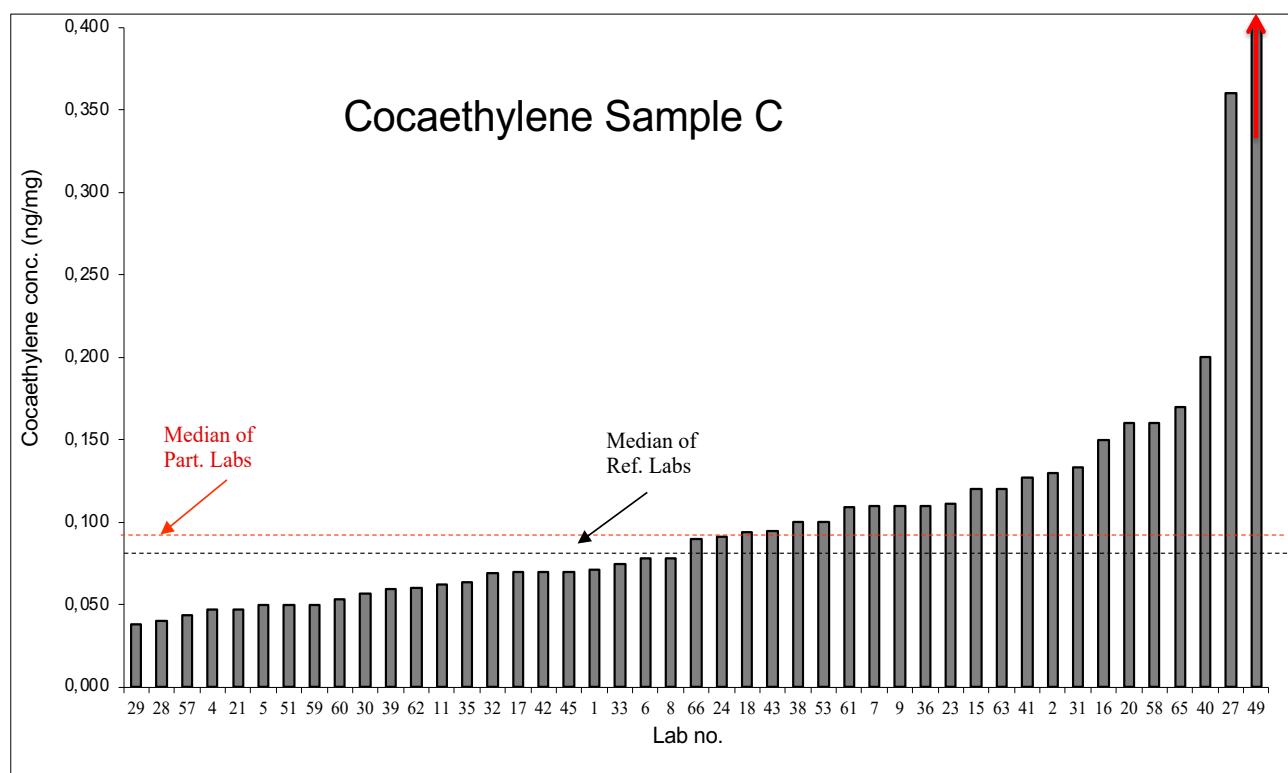
COCAETHYLENE (Ethylbenzoylecgonine. EBE)

Lab	EBE (ng/mg)	Z-score	Result
1	0.071	-0.25	Satisfactory
2	0.130	0.87	Satisfactory
4	0.047	-0.70	Satisfactory
5	0.050	-0.64	Satisfactory
6	0.078	-0.11	Satisfactory
7	0.110	0.49	Satisfactory
8	0.078	-0.11	Satisfactory
9	0.110	0.49	Satisfactory
11	0.062	-0.42	Satisfactory
13	N		
15	0.120	0.68	Satisfactory
16	0.150	1.25	Satisfactory
17	0.070	-0.26	Satisfactory
18	0.094	0.19	Satisfactory
20	0.160	1.43	Satisfactory
21	0.047	-0.70	Satisfactory
22	N		
23	0.111	0.51	Satisfactory
24	0.091	0.13	Satisfactory
25	P		
26	P		
27	0.360	5.21	Unsatisfactory
28	0.040	-0.83	Satisfactory
29	0.038	-0.87	Satisfactory
30	0.057	-0.51	Satisfactory
31	0.133	0.92	Satisfactory
32	0.069	-0.28	Satisfactory
33	0.075	-0.17	Satisfactory
34	N		
35	0.064	-0.38	Satisfactory
36	0.110	0.49	Satisfactory
37	N		
38	0.100	0.30	Satisfactory
39	0.060	-0.46	Satisfactory
40	0.200	2.19	Questionable
41	0.127	0.81	Satisfactory
42	0.070	-0.26	Satisfactory
43	0.095	0.21	Satisfactory
45	0.070	-0.26	Satisfactory
46	U		
49	0.461	Outlier	
51	0.050	-0.64	Satisfactory
53	0.100	0.30	Satisfactory
56	N		
57	0.044	-0.75	Satisfactory
58	0.160	1.43	Satisfactory
59	0.050	-0.64	Satisfactory
60	0.053	-0.58	Satisfactory
61	0.109	0.47	Satisfactory
62	0.060	-0.45	Satisfactory
63	0.120	0.68	Satisfactory
65	0.170	1.62	Satisfactory

Lab	EBE (ng/mg)	Z-score	Result
66	0.090	0.11	Satisfactory
67	P		
68	N		

* Lab 49 has not been included in the statistical study

Average	0.097
SD	0.056
CV%	57.465
Median	0.084
Minimum	0.038
Quartile 25	0.060
Quartile 75	0.113
Maximum	0.360
Iqr	0.053

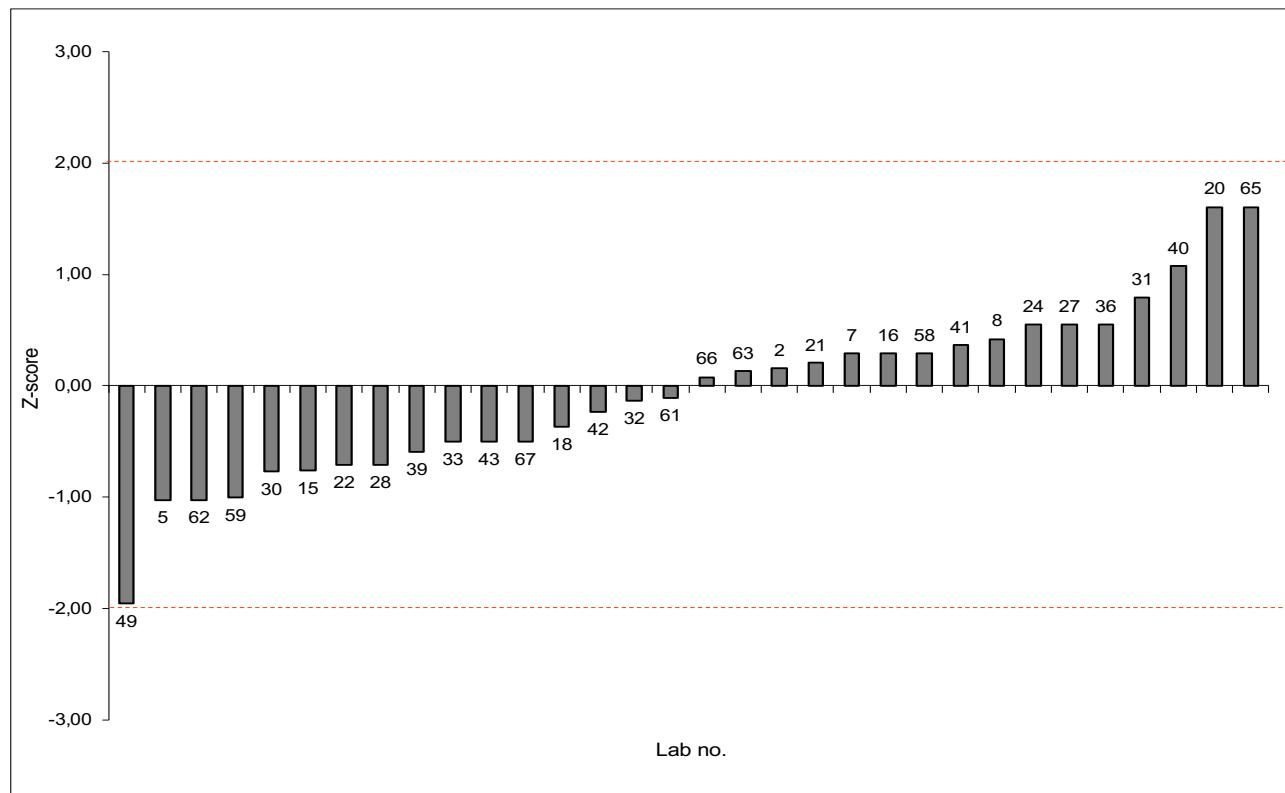
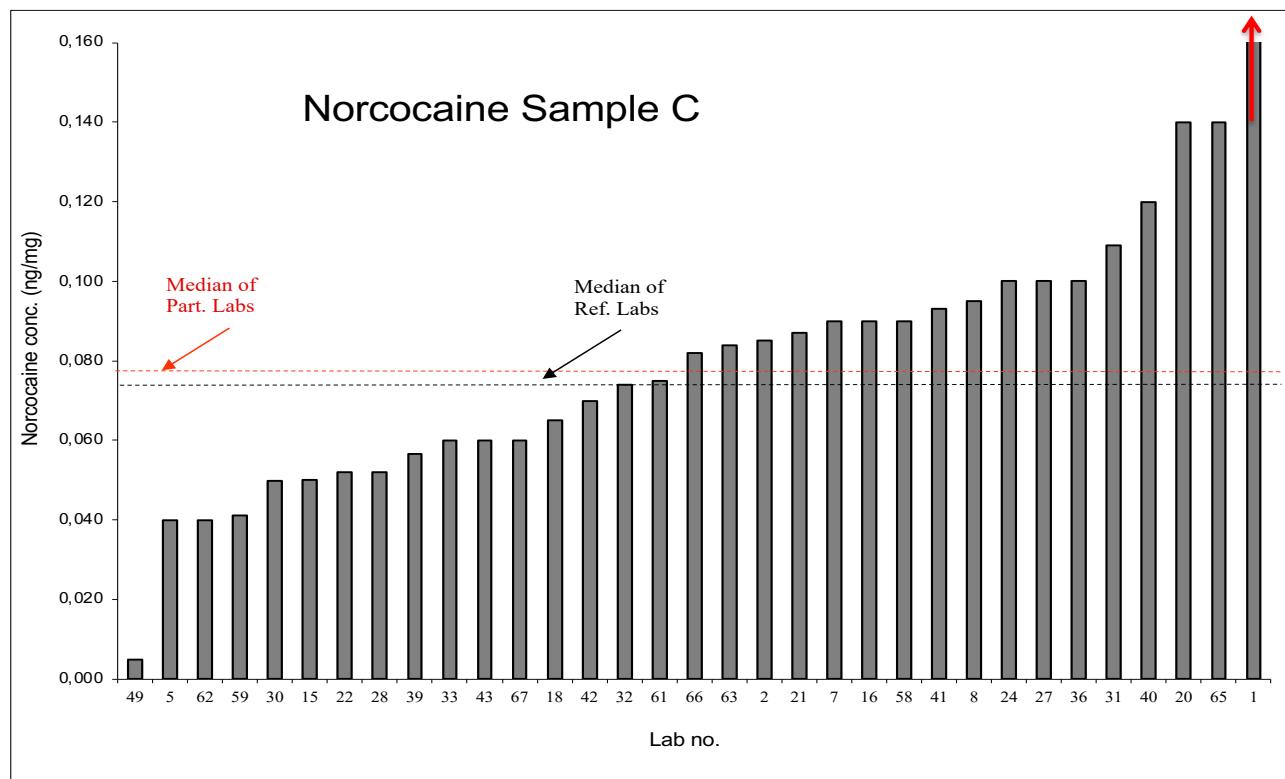


NORCOCAINE (NorCOC)

Lab	NorCOC (ng/mg)	Z-score	Result
1	9.110	Outlier*	
2	0.085	0.16	Satisfactory
4	N		
5	0.040	-1.03	Satisfactory
6	N		
7	0.090	0.29	Satisfactory
8	0.095	0.42	Satisfactory
11	N		
15	0.050	-0.76	Satisfactory
16	0.090	0.29	Satisfactory
18	0.065	-0.37	Satisfactory
20	0.140	1.61	Satisfactory
21	0.087	0.21	Satisfactory
22	0.052	-0.71	Satisfactory
24	0.100	0.55	Satisfactory
27	0.100	0.55	Satisfactory
28	0.052	-0.71	Satisfactory
30	0.050	-0.77	Satisfactory
31	0.109	0.79	Satisfactory
32	0.074	-0.13	Satisfactory
33	0.060	-0.50	Satisfactory
34	N		
36	0.100	0.55	Satisfactory
37	N		
39	0.057	-0.59	Satisfactory
40	0.120	1.08	Satisfactory
41	0.093	0.37	Satisfactory
42	0.070	-0.24	Satisfactory
43	0.060	-0.50	Satisfactory
46	U		
49	0.005	-1.95	Satisfactory
51	N		
56	N		
58	0.090	0.29	Satisfactory
59	0.041	-1.00	Satisfactory
60	Traces		
61	0.075	-0.11	Satisfactory
62	0.040	-1.03	Satisfactory
63	0.084	0.13	Satisfactory
65	0.140	1.61	Satisfactory
66	0.082	0.08	Satisfactory
67	0.060	-0.50	Satisfactory
68	N		

Average	0.077
SD	0.029
CV%	37.975
Median	0.079
Minimum	0.005
Quartile 25	0.055
Quartile 75	0.094
Maximum	0.140
Iqr	0.038

* Lab 1 has not been included in the statistical study

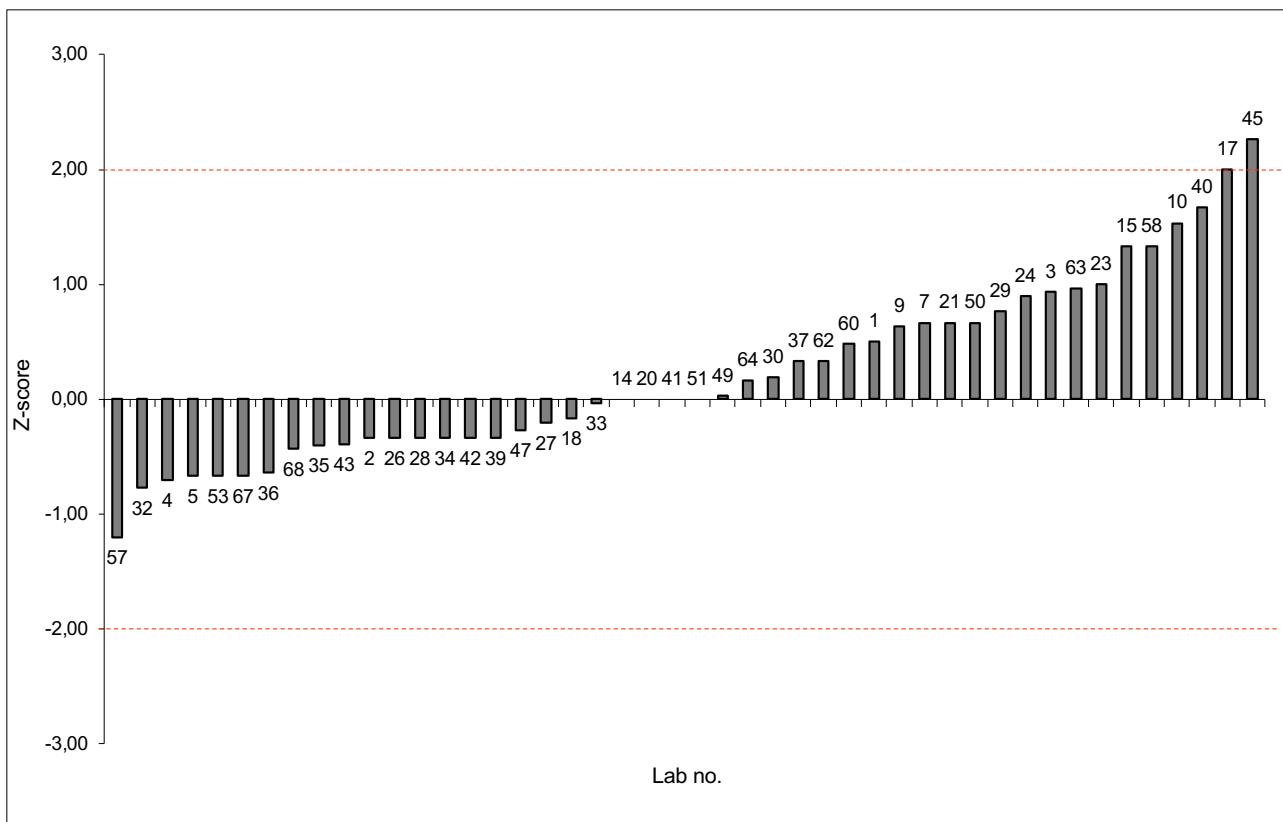
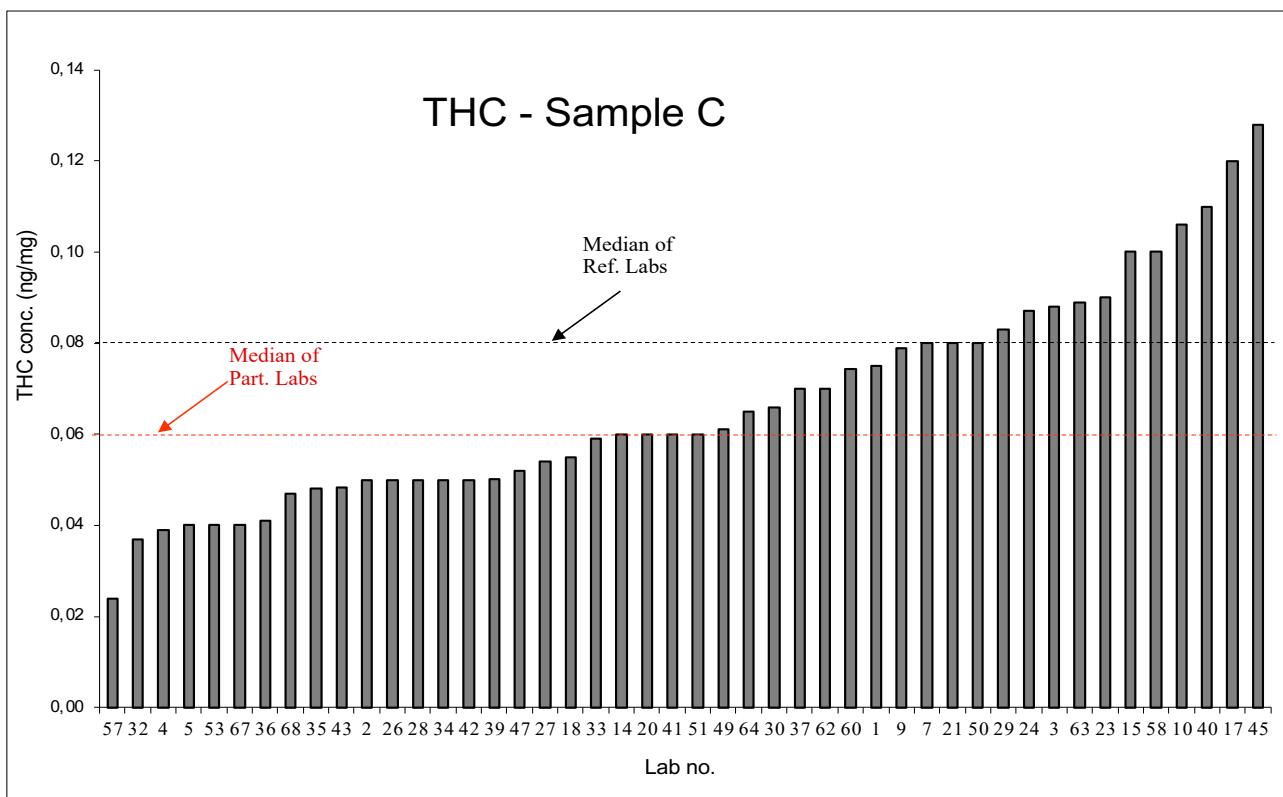


Δ^9 -TETRAHYDROCANNABINOL (THC)

Lab	THC (ng/mg)	Z-score	Result
1	0.08	0.50	Satisfactory
2	0.05	-0.33	Satisfactory
3	0.09	0.93	Satisfactory
4	0.04	-0.70	Satisfactory
5	0.04	-0.67	Satisfactory
7	0.08	0.67	Satisfactory
9	0.08	0.63	Satisfactory
10	0.11	1.53	Satisfactory
12	N		
13	N		
14	0.06	0.00	Satisfactory
15	0.10	1.33	Satisfactory
17	0.12	2.00	Questionable
18	0.06	-0.17	Satisfactory
20	0.06	0.00	Satisfactory
21	0.08	0.67	Satisfactory
23	0.09	1.00	Satisfactory
24	0.09	0.90	Satisfactory
25	P		
26	0.05	-0.33	Satisfactory
27	0.05	-0.20	Satisfactory
28	0.05	-0.33	Satisfactory
29	0.08	0.77	Satisfactory
30	0.07	0.19	Satisfactory
32	0.04	-0.77	Satisfactory
33	0.06	-0.03	Satisfactory
34	0.05	-0.33	Satisfactory
35	0.05	-0.40	Satisfactory
36	0.04	-0.63	Satisfactory
37	0.07	0.33	Satisfactory
38	N		
39	0.05	-0.33	Satisfactory
40	0.11	1.67	Satisfactory
41	0.06	0.00	Satisfactory
42	0.05	-0.33	Satisfactory
43	0.05	-0.39	Satisfactory
45	0.13	2.27	Questionable
46	U		
47	0.05	-0.27	Satisfactory
49	0.06	0.03	Satisfactory
50	0.08	0.67	Satisfactory
51	0.06	0.00	Satisfactory
53	0.04	-0.67	Satisfactory
55	N		
56	N		
57	0.02	-1.20	Satisfactory
58	0.10	1.33	Satisfactory
60	0.07	0.48	Satisfactory
61	P		
62	0.07	0.33	Satisfactory
63	0.09	0.97	Satisfactory
64	0.07	0.17	Satisfactory

Lab	THC (ng/mg)	Z-score	Result
67	0.04	-0.67	Satisfactory
68	0.05	-0.43	Satisfactory

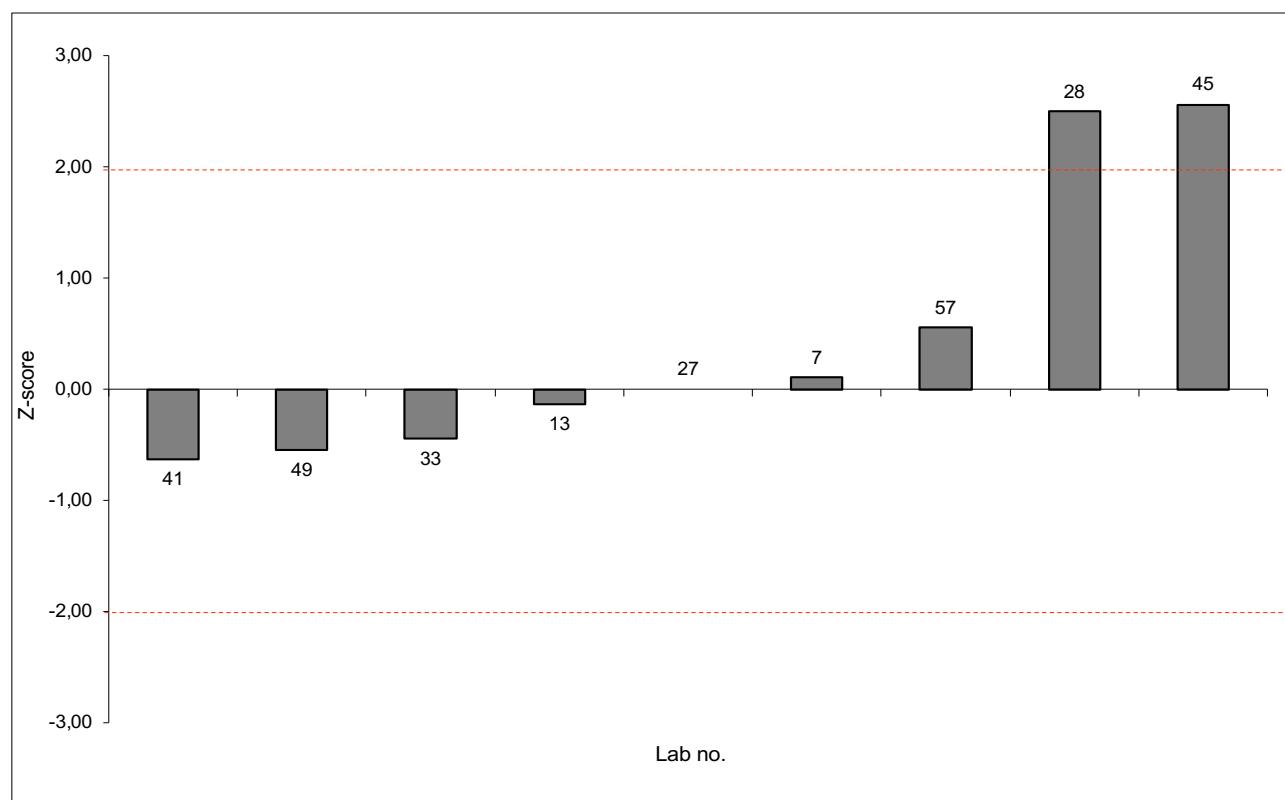
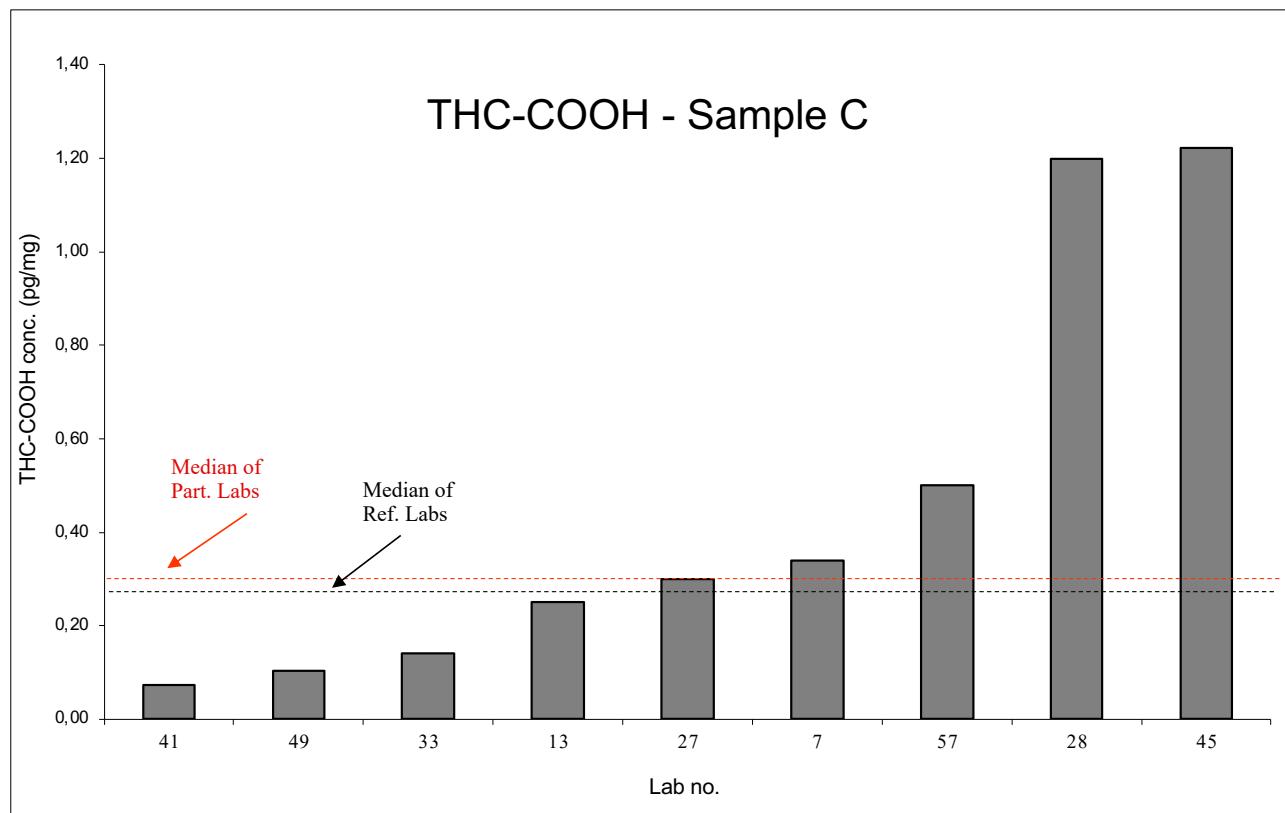
Average	0.07
SD	0.02
CV%	35.02
Median	0.06
Minimum	0.02
Quartile 25	0.05
Quartile 75	0.08
Maximum	0.13
Iqr	0.03



**11-nor- Δ^9 -TETRAHYDROCANNABINOL-9-CARBOXYLIC ACID
(THC-COOH)**

Lab	THC-COOH (pg/mg)	Z-score	Result
5	N		
7	0.34	0.11	Satisfactory
13	0.25	-0.14	Satisfactory
22	N		
27	0.30	0.00	Satisfactory
28	1.20	2.50	Questionable
33	0.14	-0.44	Satisfactory
34	N		
39	N		
41	0.07	-0.63	Satisfactory
43	N		
45	1.22	2.56	Questionable
46	U		
49	0.10	-0.54	Satisfactory
51	N		
56	N		
57	0.50	0.56	Satisfactory
63	N		
68	N		

Average	0.46
SD	0.42
CV%	91.74
Median	0.30
Minimum	0.07
Quartile 25	0.14
Quartile 75	0.50
Maximum	1.22
Iqr	0.36

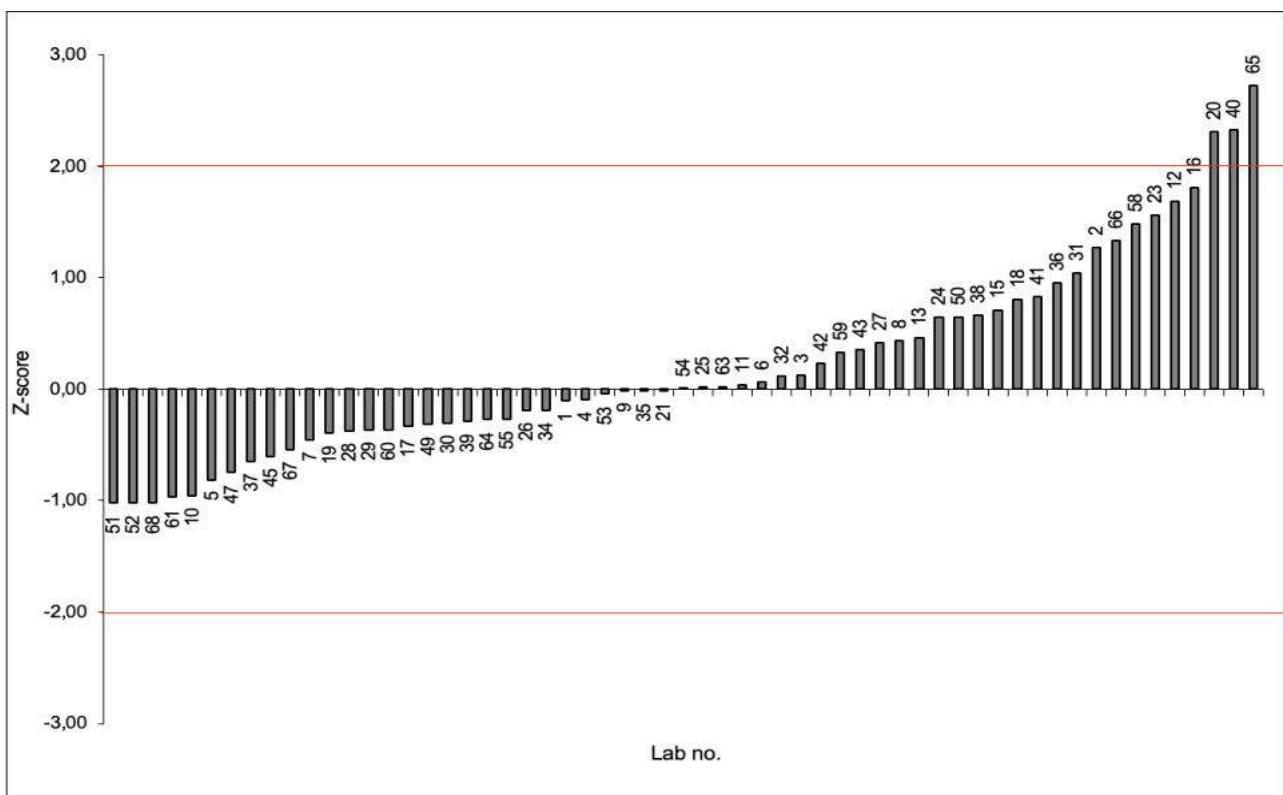
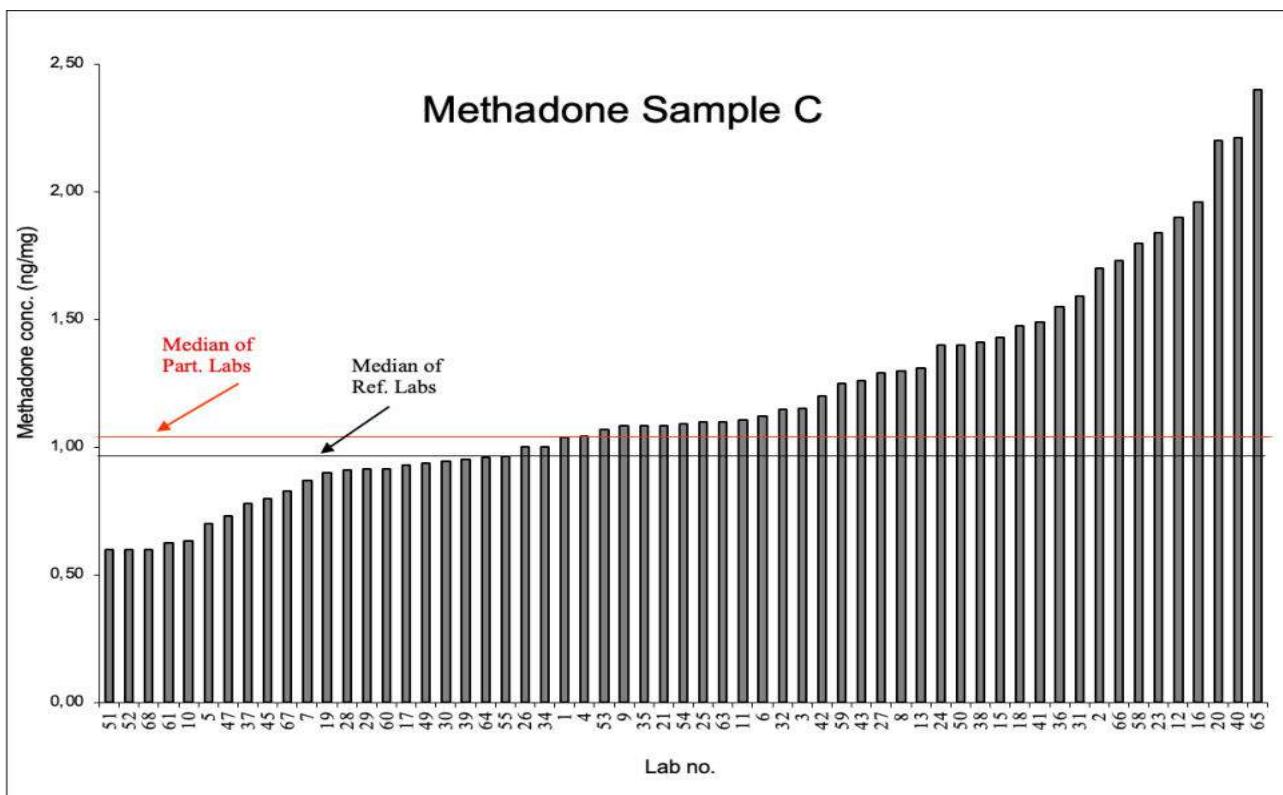


METHADONE

Lab	Methadone (ng/mg)	Z-score	Result
1	1.04	-0.10	Satisfactory
2	1.70	1.27	Satisfactory
3	1.15	0.13	Satisfactory
4	1.04	-0.10	Satisfactory
5	0.70	-0.81	Satisfactory
6	1.12	0.06	Satisfactory
7	0.87	-0.46	Satisfactory
8	1.30	0.43	Satisfactory
9	1.08	-0.02	Satisfactory
10	0.63	-0.95	Satisfactory
11	1.11	0.04	Satisfactory
12	1.90	1.69	Satisfactory
13	1.31	0.46	Satisfactory
15	1.43	0.71	Satisfactory
16	1.96	1.81	Satisfactory
17	0.93	-0.33	Satisfactory
18	1.48	0.80	Satisfactory
19	0.90	-0.40	Satisfactory
20	2.20	2.31	Questionable
21	1.08	-0.01	Satisfactory
23	1.84	1.56	Satisfactory
24	1.40	0.65	Satisfactory
25	1.10	0.02	Satisfactory
26	1.00	-0.19	Satisfactory
27	1.29	0.42	Satisfactory
28	0.91	-0.38	Satisfactory
29	0.92	-0.36	Satisfactory
30	0.94	-0.30	Satisfactory
31	1.59	1.04	Satisfactory
32	1.15	0.12	Satisfactory
34	1.00	-0.19	Satisfactory
35	1.08	-0.01	Satisfactory
36	1.55	0.96	Satisfactory
37	0.78	-0.65	Satisfactory
38	1.41	0.67	Satisfactory
39	0.95	-0.29	Satisfactory
40	2.21	2.33	Questionable
41	1.49	0.83	Satisfactory
42	1.20	0.23	Satisfactory
43	1.26	0.35	Satisfactory
45	0.80	-0.60	Satisfactory
46	P		
47	0.73	-0.75	Satisfactory
48	N		
49	0.94	-0.31	Satisfactory
50	1.40	0.65	Satisfactory
51	0.60	-1.02	Satisfactory
52	0.60	-1.02	Satisfactory
53	1.07	-0.04	Satisfactory
54	1.09	0.01	Satisfactory
55	0.96	-0.27	Satisfactory
58	1.80	1.48	Satisfactory

Lab	Methadone (ng/mg)	Z-score	Result
59	1.25	0.33	Satisfactory
60	0.92	-0.36	Satisfactory
61	0.63	-0.97	Satisfactory
63	1.10	0.02	Satisfactory
64	0.96	-0.27	Satisfactory
65	2.40	2.73	Questionable
66	1.73	1.33	Satisfactory
67	0.83	-0.54	Satisfactory
68	0.60	-1.02	Satisfactory

Average	1.19
SD	0.42
CV%	34.87
Median	1.09
Minimum	0.60
Quartile 25	0.92
Quartile 75	1.41
Maximum	2.40
Iqr	0.48

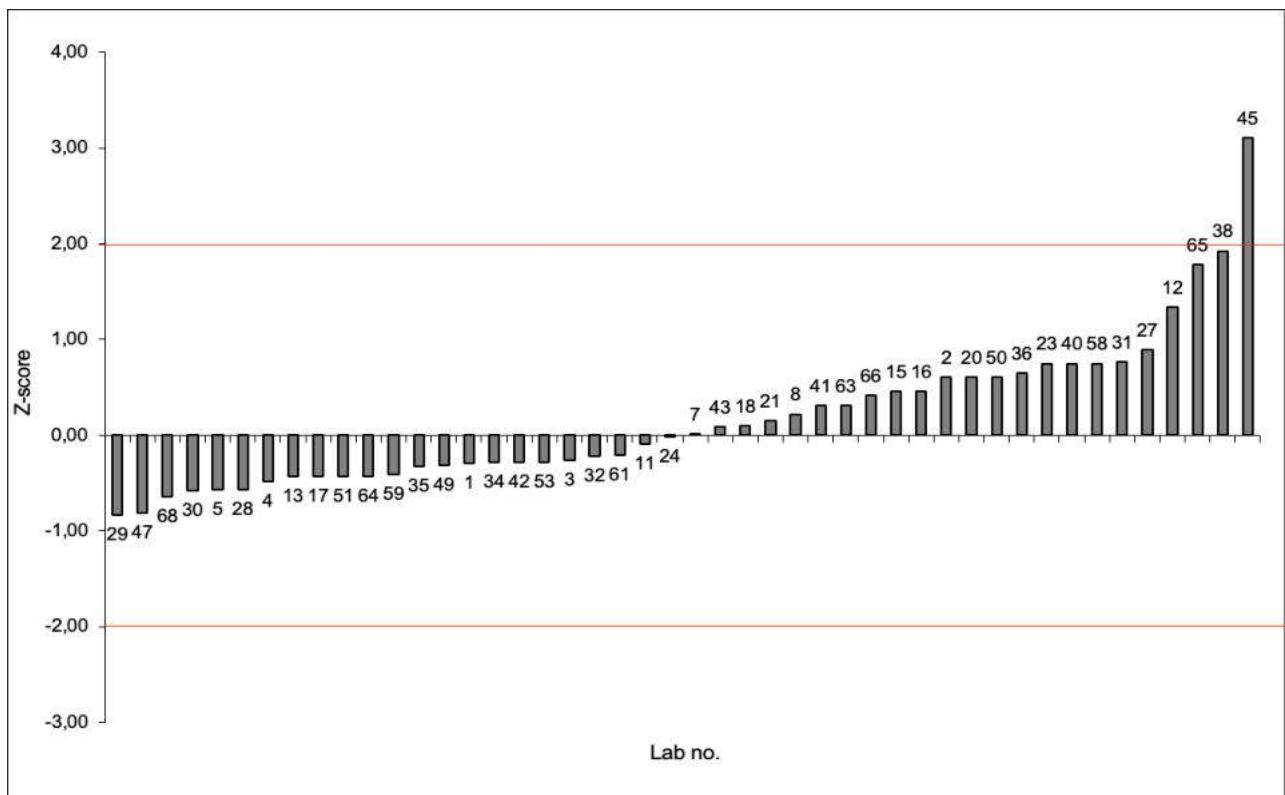
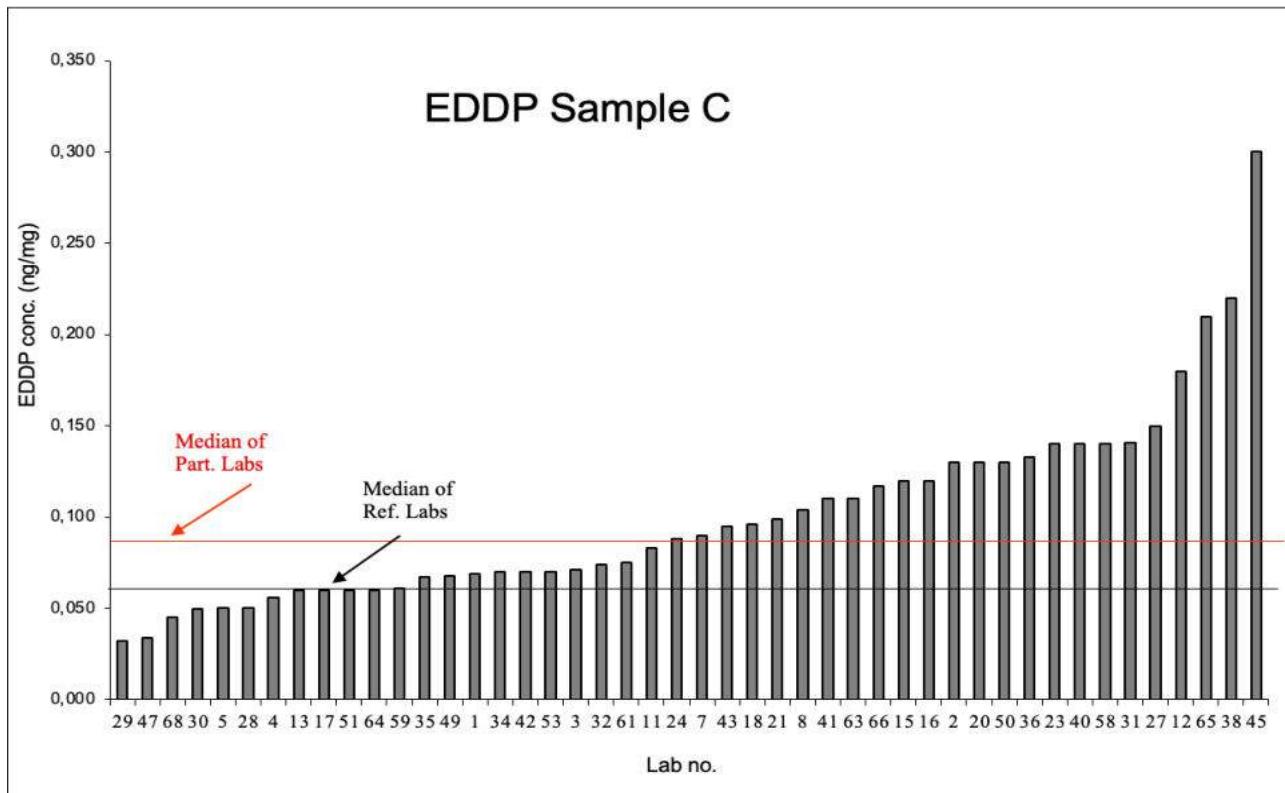


2-ETHYLIDENE-1, 5-DIMETHYL-3, 3-DIPHENYLPYRROLIDINE (EDDP)

Lab	EDDP (ng/mg)	Z-score	Result
1	0.069	-0.29	Satisfactory
2	0.130	0.60	Satisfactory
3	0.071	-0.26	Satisfactory
4	0.056	-0.49	Satisfactory
5	0.050	-0.57	Satisfactory
6	P		
7	0.090	0.01	Satisfactory
8	0.104	0.22	Satisfactory
9	N		
11	0.083	-0.09	Satisfactory
12	0.180	1.34	Satisfactory
13	0.060	-0.43	Satisfactory
15	0.120	0.46	Satisfactory
16	0.120	0.46	Satisfactory
17	0.060	-0.43	Satisfactory
18	0.096	0.10	Satisfactory
20	0.130	0.60	Satisfactory
21	0.099	0.15	Satisfactory
23	0.140	0.75	Satisfactory
24	0.088	-0.01	Satisfactory
25	P		
26	P		
27	0.150	0.90	Satisfactory
28	0.050	-0.57	Satisfactory
29	0.032	-0.84	Satisfactory
30	0.050	-0.58	Satisfactory
31	0.141	0.76	Satisfactory
32	0.074	-0.22	Satisfactory
34	0.070	-0.28	Satisfactory
35	0.067	-0.32	Satisfactory
36	0.133	0.65	Satisfactory
37	N		
38	0.220	1.93	Satisfactory
39	N		
40	0.140	0.75	Satisfactory
41	0.110	0.31	Satisfactory
42	0.070	-0.28	Satisfactory
43	0.095	0.09	Satisfactory
45	0.300	3.10	Unsatisfactory
46	U		
47	0.034	-0.81	Satisfactory
49	0.068	-0.31	Satisfactory
50	0.130	0.60	Satisfactory
51	0.060	-0.43	Satisfactory
53	0.070	-0.28	Satisfactory
54	N		
58	0.140	0.75	Satisfactory
59	0.061	-0.41	Satisfactory
60	Traces		
61	0.075	-0.21	Satisfactory
63	0.110	0.31	Satisfactory
64	0.060	-0.43	Satisfactory

Lab	EDDP (ng/mg)	Z-score	Result
65	0.210	1.78	Satisfactory
66	0.117	0.41	Satisfactory
67	P		
68	0.045	-0.65	Satisfactory

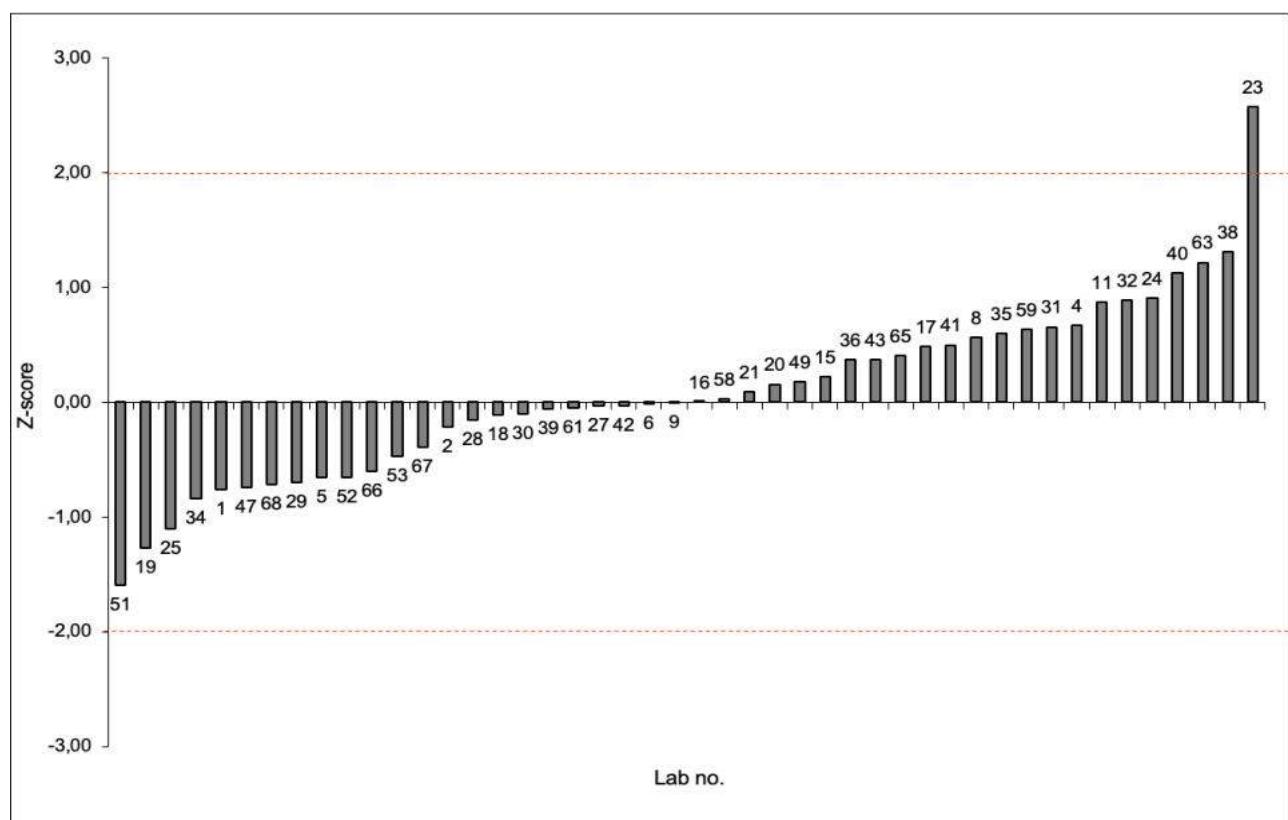
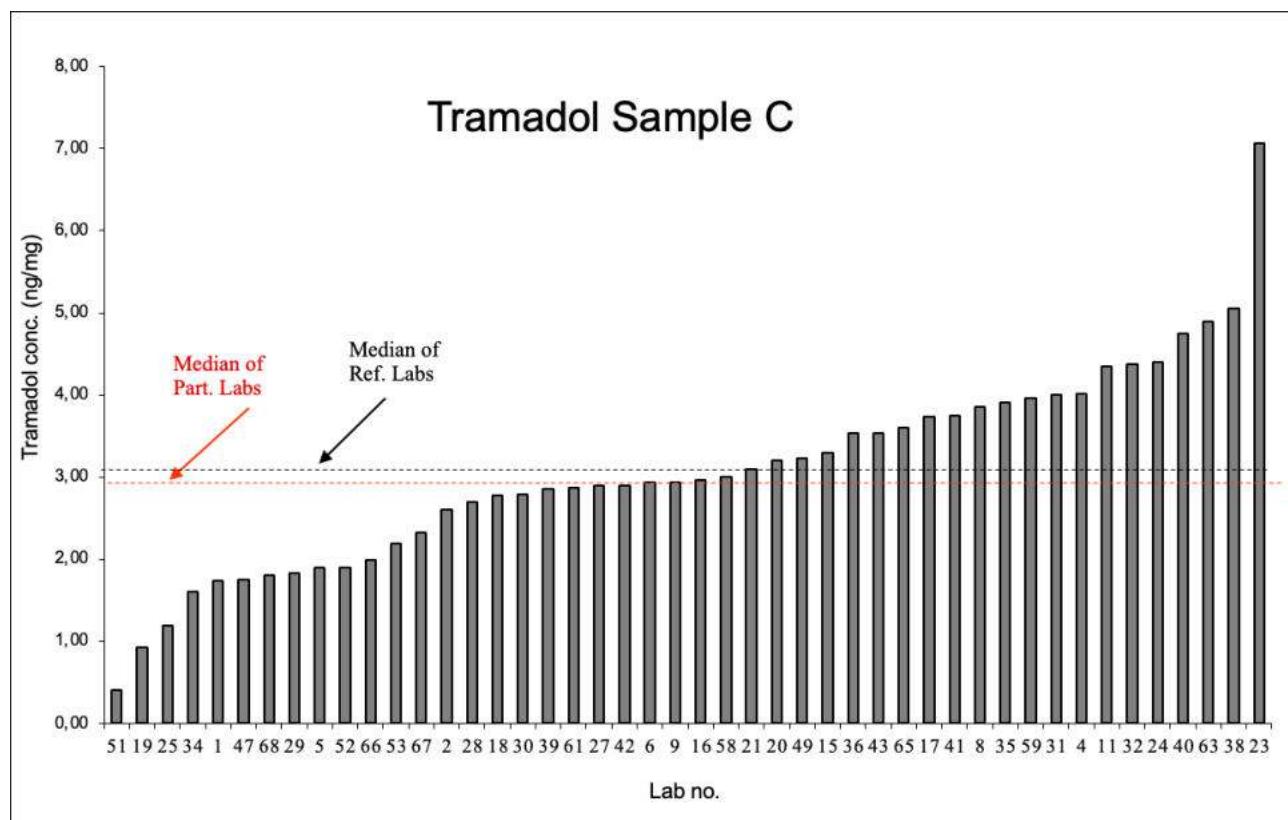
Average	0.101
SD	0.052
CV%	51.784
Median	0.089
Minimum	0.032
Quartile 25	0.063
Quartile 75	0.130
Maximum	0.300
Iqr	0.068



TRAMADOL

Lab	Tramadol (ng/mg)	Z-score	Result
1	1.74	-0.76	Satisfactory
2	2.60	-0.22	Satisfactory
4	4.02	0.67	Satisfactory
5	1.90	-0.66	Satisfactory
6	2.93	-0.01	Satisfactory
8	3.85	0.56	Satisfactory
9	2.94	-0.01	Satisfactory
11	4.34	0.87	Satisfactory
15	3.30	0.22	Satisfactory
16	2.96	0.01	Satisfactory
17	3.73	0.49	Satisfactory
18	2.78	-0.11	Satisfactory
19	0.92	-1.27	Satisfactory
20	3.20	0.16	Satisfactory
21	3.09	0.09	Satisfactory
23	7.07	2.58	Questionable
24	4.40	0.91	Satisfactory
25	1.19	-1.10	Satisfactory
27	2.90	-0.03	Satisfactory
28	2.70	-0.16	Satisfactory
29	1.83	-0.70	Satisfactory
30	2.79	-0.10	Satisfactory
31	4.00	0.66	Satisfactory
32	4.38	0.89	Satisfactory
34	1.60	-0.84	Satisfactory
35	3.92	0.60	Satisfactory
36	3.54	0.37	Satisfactory
37	> 1.00		
38	5.05	1.31	Satisfactory
39	2.85	-0.06	Satisfactory
40	4.75	1.13	Satisfactory
41	3.75	0.50	Satisfactory
42	2.90	-0.03	Satisfactory
43	3.54	0.37	Satisfactory
46	P		
47	1.76	-0.75	Satisfactory
49	3.23	0.18	Satisfactory
51	0.40	-1.59	Satisfactory
52	1.90	-0.66	Satisfactory
53	2.19	-0.48	Satisfactory
58	3.00	0.03	Satisfactory
59	3.96	0.63	Satisfactory
61	2.87	-0.05	Satisfactory
63	4.90	1.22	Satisfactory
65	3.60	0.41	Satisfactory
66	1.99	-0.60	Satisfactory
67	2.32	-0.39	Satisfactory
68	1.80	-0.72	Satisfactory

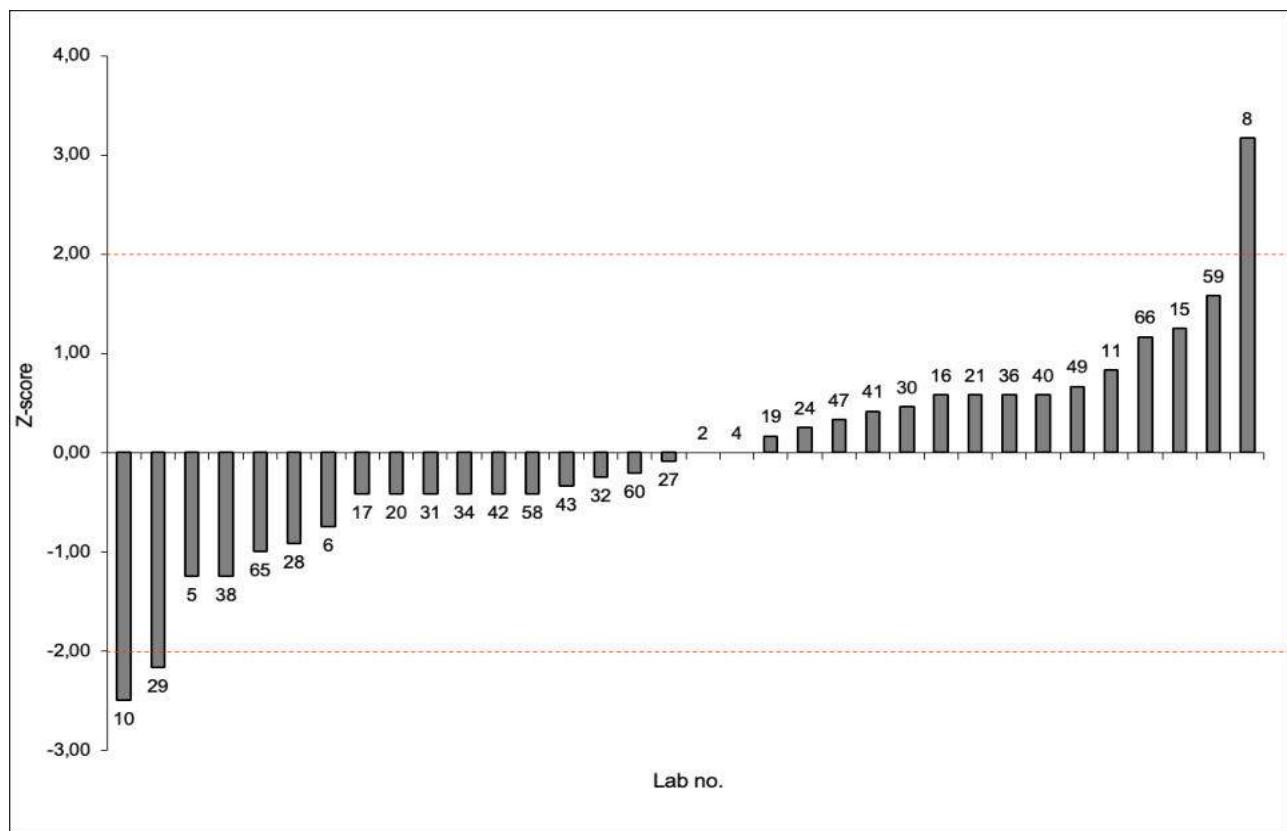
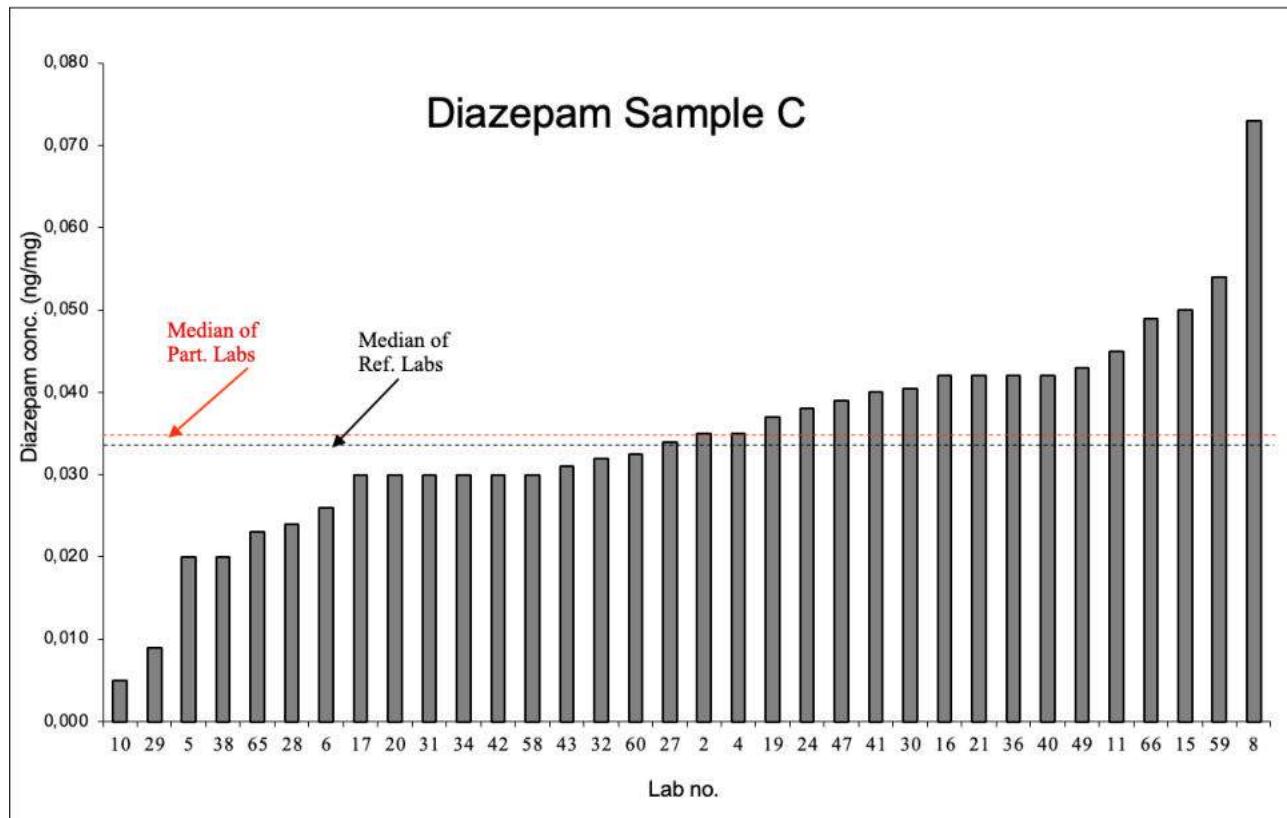
Average	3.07
SD	1.21
CV%	39.22
Median	2.95
Minimum	0.40
Quartile 25	2.22
Quartile 75	3.83
Maximum	7.07
Iqr	1.60



DIAZEPAM

Lab	Diazepam (ng/mg)	Z-score	Result
1	<0.05		
2	0.035	0.00	Satisfactory
3	N		
4	0.035	0.00	Satisfactory
5	0.020	-1.25	Satisfactory
6	0.026	-0.75	Satisfactory
8	0.073	3.17	Unsatisfactory
10	0.005	-2.50	Questionable
11	0.045	0.83	Satisfactory
14	N		
15	0.050	1.25	Satisfactory
16	0.042	0.58	Satisfactory
17	0.030	-0.42	Satisfactory
18	N		
19	0.037	0.17	Satisfactory
20	0.030	-0.42	Satisfactory
21	0.042	0.58	Satisfactory
22	N		
23	N		
24	0.038	0.25	Satisfactory
26	N		
27	0.034	-0.08	Satisfactory
28	0.024	-0.92	Satisfactory
29	0.009	-2.17	Questionable
30	0.041	0.46	Satisfactory
31	0.030	-0.42	Satisfactory
32	0.032	-0.25	Satisfactory
34	0.030	-0.42	Satisfactory
35	< 0.125		
36	0.042	0.58	Satisfactory
37	N		
38	0.020	-1.25	Satisfactory
39	N		
40	0.042	0.58	Satisfactory
41	0.040	0.42	Satisfactory
42	0.030	-0.42	Satisfactory
43	0.031	-0.33	Satisfactory
46	U		
47	0.039	0.33	Satisfactory
49	0.043	0.67	Satisfactory
51	N		
54	N		
55	N		
58	0.030	-0.42	Satisfactory
59	0.054	1.58	Satisfactory
60	0.033	-0.21	Satisfactory
61	N		
63	N		
65	0.023	-1.00	Satisfactory
66	0.049	1.17	Satisfactory
68	N		

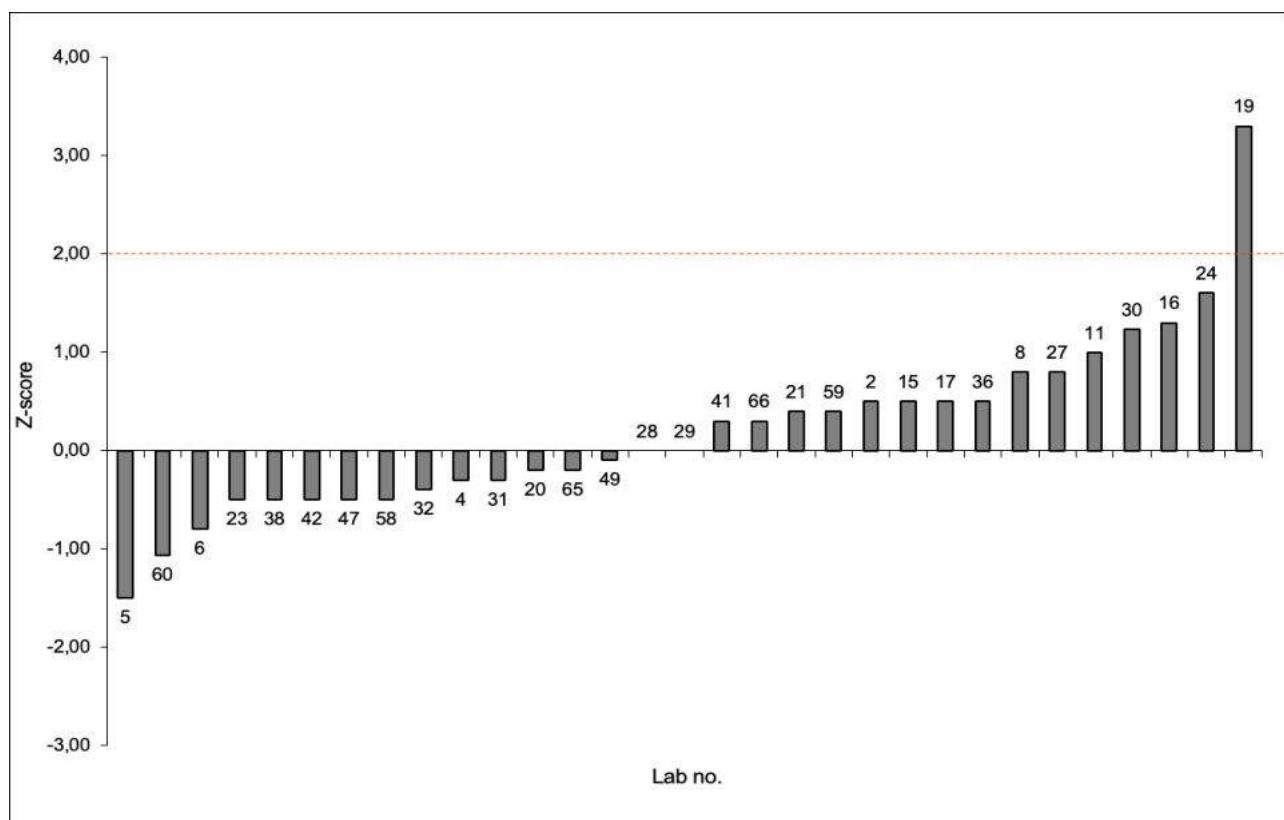
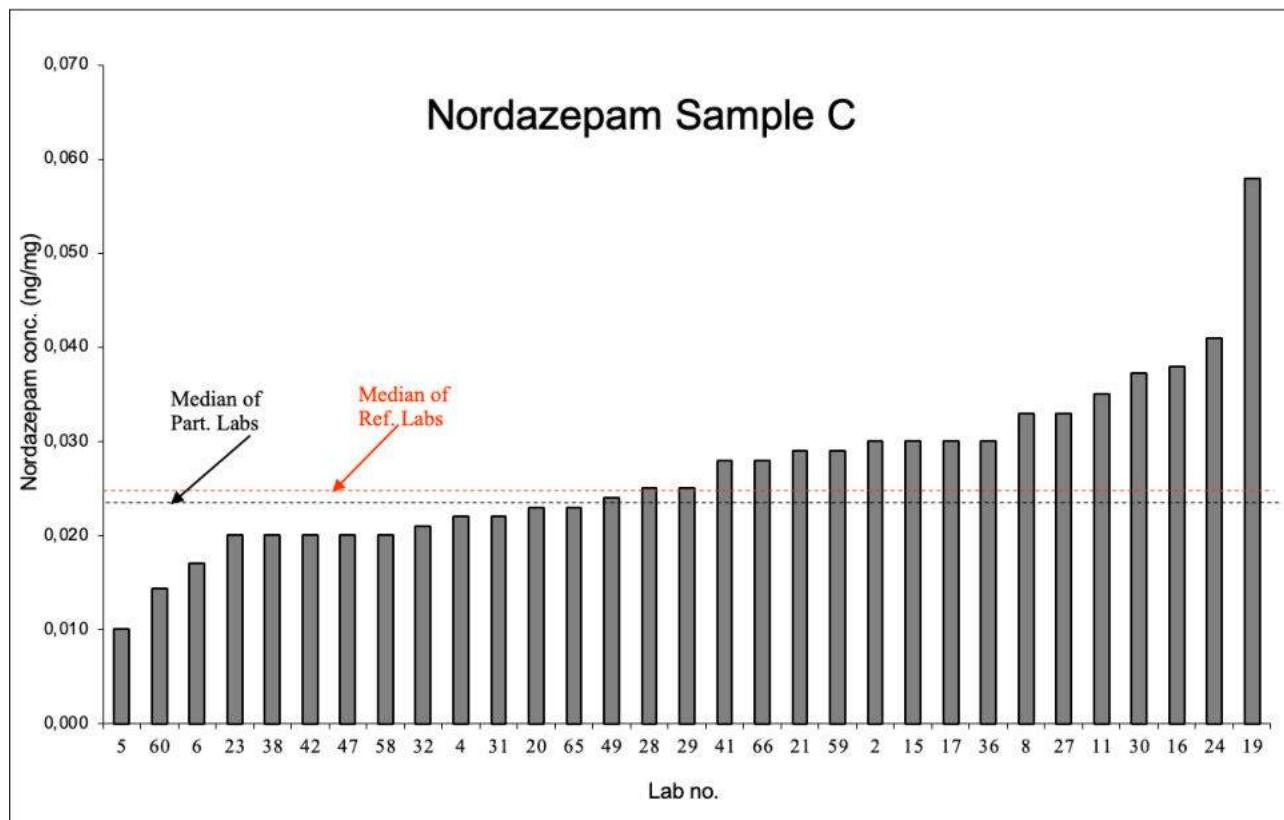
Average	0.035
SD	0.012
CV%	35.622
Median	0.035
Minimum	0.005
Quartile 25	0.030
Quartile 75	0.042
Maximum	0.073
Iqr	0.012



NORDAZEPAM

Lab	Nordazepam (ng/mg)	Z-score	Result
1	<0.05		
2	0.030	0.50	Satisfactory
3	N		
4	0.022	-0.30	Satisfactory
5	0.010	-1.50	Satisfactory
6	0.017	-0.80	Satisfactory
8	0.033	0.80	Satisfactory
11	0.035	1.00	Satisfactory
14	N		
15	0.030	0.50	Satisfactory
16	0.038	1.30	Satisfactory
17	0.030	0.50	Satisfactory
18	N		
19	0.058	3.30	Unsatisfactory
20	0.023	-0.20	Satisfactory
21	0.029	0.40	Satisfactory
22	N		
23	0.020	-0.50	Satisfactory
24	0.041	1.60	Satisfactory
26	N		
27	0.033	0.80	Satisfactory
28	0.025	0.00	Satisfactory
29	0.025	0.00	Satisfactory
30	0.037	1.23	Satisfactory
31	0.022	-0.30	Satisfactory
32	0.021	-0.40	Satisfactory
34	N		
35	< 0.125		
36	0.030	0.50	Satisfactory
37	N		
38	0.020	-0.50	Satisfactory
39	N		
40	P		
41	0.028	0.30	Satisfactory
42	0.020	-0.50	Satisfactory
43	N		
46	U		
47	0.020	-0.50	Satisfactory
49	0.024	-0.10	Satisfactory
51	N		
54	N		
55	N		
58	0.020	-0.50	Satisfactory
59	0.029	0.40	Satisfactory
60	0.014	-1.07	Satisfactory
61	N		
63	N		
65	0.023	-0.20	Satisfactory
66	0.028	0.30	Satisfactory
68	N		

Average	0.027
SD	0.009
CV%	33.291
Median	0.025
Minimum	0.010
Quartile 25	0.021
Quartile 75	0.030
Maximum	0.058
Iqr	0.010



SAMPLE A

Compound	N	Average	SD	CV%	Median	Minimum	Quartile 25	Quartile 75	Maximum	Iqr
CBN	22	0.121	0.033	27.119	0.116	0.040	0.107	0.146	0.178	0.038
CBD	15	0.045	0.026	57.674	0.048	0.010	0.025	0.060	0.110	0.035
DHC	12	0.025	0.016	63.065	0.020	0.010	0.013	0.032	0.060	0.019
o-Desmethyltramadol	12	0.034	0.021	61.236	0.032	0.015	0.018	0.041	0.090	0.023
AEME	9	0.106	0.013	12.307	0.103	0.091	0.094	0.118	0.130	0.024
Acod	8	0.067	0.023	34.844	0.070	0.038	0.045	0.085	0.101	0.041
MDPV	7	0.023	0.011	45.928	0.028	0.004	0.020	0.030	0.035	0.010
Zopiclone	7	0.034	0.008	22.452	0.033	0.022	0.032	0.039	0.045	0.007
Nortilidine	6	0.049	0.009	18.289	0.046	0.040	0.041	0.057	0.061	0.017
Fentanyl	5	0.178	0.301	169.002	0.006	0.001	0.003	0.182	0.700	0.179
N-Desmethyltramadol	5	0.172	0.114	65.915	0.125	0.020	0.116	0.260	0.340	0.144
Zolpidem	5	0.009	0.001	16.701	0.010	0.007	0.007	0.010	0.010	0.003
JWH-018	4	0.005	0.001	11.111	0.005	0.004	0.004	0.005	0.005	0.001
JWH-073	4	0.200	0.091	45.363	0.200	0.109	0.154	0.245	0.290	0.091
JWH-081	4	0.011	0.003	27.273	0.011	0.008	0.010	0.013	0.014	0.003
Pseudoephedrine	4	0.093	0.046	49.443	0.091	0.031	0.069	0.115	0.160	0.046
Tilidine	4	0.008	0.002	21.030	0.009	0.006	0.007	0.010	0.010	0.002
Amitriptiline	3	0.023	0.009	40.320	0.028	0.010	0.019	0.030	0.031	0.011
Citalopram	3	0.014	0.004	28.571	0.014	0.010	0.012	0.016	0.018	0.004
Diphenhydramine	3	0.006	0.001	9.526	0.006	0.006	0.006	0.007	0.007	0.001
Heroin	3	0.038	0.007	18.421	0.038	0.031	0.035	0.042	0.045	0.007
Venlafaxine	3	0.131	0.007	5.025	0.130	0.124	0.127	0.135	0.140	0.008
EME	2	0.048	0.043	89.474	0.048	0.005	0.026	0.069	0.090	0.043
m-hydroxycocaine	2	0.002	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.000
Mephedrone	2	0.006	0.005	81.818	0.006	0.001	0.003	0.008	0.010	0.005
Nortriptiline	2	0.022	0.007	30.233	0.022	0.015	0.018	0.025	0.028	0.007
Papaverine	2	0.120	0.000	0.000	0.120	0.120	0.120	0.120	0.120	0.000

2 Labs reported qualitative results for: JWH-122, JWH-250 and Levamisole

SAMPLE C

Compound	N	Average	SD	CV%	Median	Minimum	Quartile 25	Quartile 75	Maximum	Iqr
DHC	27	0.222	0.119	53.680	0.185	0.057	0.133	0.295	0.480	0.163
CBN	19	0.079	0.026	33.000	0.087	0.020	0.061	0.098	0.118	0.037
Ketamine	18	0.047	0.039	83.367	0.031	0.009	0.020	0.050	0.180	0.030
CBD	14	0.038	0.024	62.242	0.030	0.010	0.021	0.060	0.080	0.038
Fentanyl	13	0.013	0.008	63.410	0.010	0.003	0.008	0.016	0.030	0.008
o-Desmethyltramadol	12	0.229	0.079	34.343	0.232	0.101	0.182	0.261	0.420	0.079
Acod	11	0.344	0.090	26.029	0.342	0.200	0.290	0.380	0.530	0.090
AEME	11	1.798	0.746	41.471	1.546	1.200	1.472	1.750	3.996	0.278
Tilidine	9	0.083	0.014	16.668	0.080	0.071	0.077	0.080	0.120	0.003
Diphenhydramine	8	0.048	0.010	20.893	0.045	0.035	0.040	0.059	0.060	0.019
Heroin	8	0.103	0.024	23.607	0.100	0.073	0.091	0.103	0.160	0.012
Nortilidine	7	0.273	0.036	13.347	0.255	0.228	0.250	0.295	0.340	0.045
Citalopram	6	0.102	0.045	43.711	0.089	0.046	0.070	0.145	0.163	0.075
EME	6	0.109	0.051	46.877	0.095	0.059	0.068	0.130	0.206	0.063
JWH-018	6	0.009	0.002	24.003	0.010	0.006	0.008	0.011	0.011	0.003
Zopiclone	6	0.017	0.006	35.097	0.016	0.009	0.014	0.019	0.027	0.005
Buprenorphine	5	0.011	0.006	53.480	0.008	0.005	0.006	0.015	0.020	0.009
Hydrocodone	5	0.028	0.008	26.916	0.029	0.019	0.021	0.031	0.040	0.010
JWH-073	5	0.014	0.008	52.929	0.010	0.008	0.009	0.018	0.025	0.009
N-Desmethyltramadol	5	1.038	0.222	21.361	1.015	0.813	0.820	1.131	1.410	0.311
Nortramadol	5	0.341	0.188	55.071	0.292	0.100	0.263	0.380	0.670	0.117
JWH-081	4	0.058	0.035	60.000	0.058	0.023	0.040	0.075	0.092	0.035
JWH-122	4	0.037	0.019	50.685	0.037	0.018	0.027	0.046	0.055	0.019
m-hydroxycocaine	4	2.580	3.621	140.352	0.025	0.014	0.020	3.863	7.700	3.843
JWH-250	3	0.018	0.000	0.000	0.018	0.018	0.018	0.018	0.018	0.000
Midazolam	3	0.005	0.001	16.330	0.005	0.004	0.005	0.006	0.006	0.001
Norbuprenorphine	3	0.011	0.004	39.281	0.012	0.005	0.009	0.014	0.015	0.005
o-hydroxycocaine	3	1.203	1.198	99.584	1.203	0.005	0.604	1.801	2.400	1.198
p-hydroxycocaine	3	10.414	10.386	99.731	10.414	0.028	5.221	15.607	20.800	10.386
Hydromorphone	2	0.028	0.018	63.636	0.028	0.010	0.019	0.036	0.045	0.018
m-hydroxybenzoylecgonine	2	0.021	0.004	17.073	0.021	0.017	0.019	0.022	0.024	0.004
Mirtazapine	2	0.028	0.000	0.000	0.028	0.028	0.028	0.028	0.028	0.000
Oxycodone	2	0.006	0.002	27.273	0.006	0.004	0.005	0.006	0.007	0.002
Papaverine	2	0.700	0.000	0.000	0.700	0.700	0.700	0.700	0.700	0.000
Zolpidem	2	0.003	0.001	20.000	0.003	0.002	0.002	0.003	0.003	0.001

2 Labs reported qualitative results for: JWH-210 and Levamisole