Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102722\
Data File : BN022341.D
Acq On : 26 Oct 2022 18:56
Operator : CG/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 27 06:52:29 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 27 06:48:35 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.942	152	2946	0.400	ng		0.00
7) Naphthalene-d8	10.773	136	9062	0.400	ng		0.00
13) Acenaphthene-d10	14.610	164	5107	0.400	ng		0.00
19) Phenanthrene-d10	17.362	188	10947	0.400	ng		0.00
29) Chrysene-d12	21.573	240	9060	0.400	ng		0.00
35) Perylene-d12	24.037	264	8006	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.472	112	3099	0.454	ng		0.00
5) Phenol-d6	7.104	99	3783	0.427	ng		0.00
8) Nitrobenzene-d5	9.118	82	2947	0.404	ng		0.00
11) 2-Methylnaphthalene-d10	12.368	152	5393	0.324	ng		0.00
14) 2,4,6-Tribromophenol	16.109	330	785	0.403	ng		0.00
15) 2-Fluorobiphenyl	13.242	172	8518	0.382	ng		0.00
27) Fluoranthene-d10	19.407	212	11629	0.400	ng		0.00
31) Terphenyl-d14	20.006	244	8971	0.493	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.291	88	1679	0.440	ng		100
3) n-Nitrosodimethylamine	3.638	42	1721	0.415	ng		100
6) bis(2-Chloroethyl)ether	7.364	93	3729	0.399	ng		100
9) Naphthalene	10.816	128	10535	0.385	ng		100
10) Hexachlorobutadiene	11.104	225	1810	0.382	ng	#	100
12) 2-Methylnaphthalene	12.077	142	1953	0.482	ng		100
16) Acenaphthylene	14.332	152	8960	0.369	ng		100
17) Acenaphthene	14.674	154	6460	0.378	ng		100
18) Fluorene	15.669	166	9092	0.441	ng		100
20) 4,6-Dinitro-2-methylph...	15.761	198	564	0.361	ng		100
21) 4-Bromophenyl-phenylether	16.555	248	2502	0.375	ng		100
22) Hexachlorobenzene	16.667	284	2917	0.352	ng		100
23) Atrazine	16.829	200	2043	0.413	ng		100
24) Pentachlorophenol	17.027	266	1034	0.406	ng		99
25) Phenanthrene	17.412	178	14359	0.382	ng		100
26) Anthracene	17.499	178	11644	0.385	ng		100
28) Fluoranthene	19.441	202	15746	0.391	ng		100
30) Pyrene	19.803	202	16084	0.404	ng		100
32) Benzo(a)anthracene	21.555	228	13633	0.400	ng		100
33) Chrysene	21.609	228	14363	0.380	ng		100
34) Bis(2-ethylhexyl)phtha...	21.474	149	11131	0.681	ng		100
36) Indeno(1,2,3-cd)pyrene	26.619	276	16223	0.401	ng		100
37) Benzo(b)fluoranthene	23.280	252	14164	0.373	ng		100
38) Benzo(k)fluoranthene	23.330	252	13749	0.364	ng		100
39) Benzo(a)pyrene	23.926	252	11515	0.398	ng		100
40) Dibenzo(a,h)anthracene	26.639	278	12650	0.392	ng		100
41) Benzo(g,h,i)perylene	27.414	276	13411	0.385	ng		100

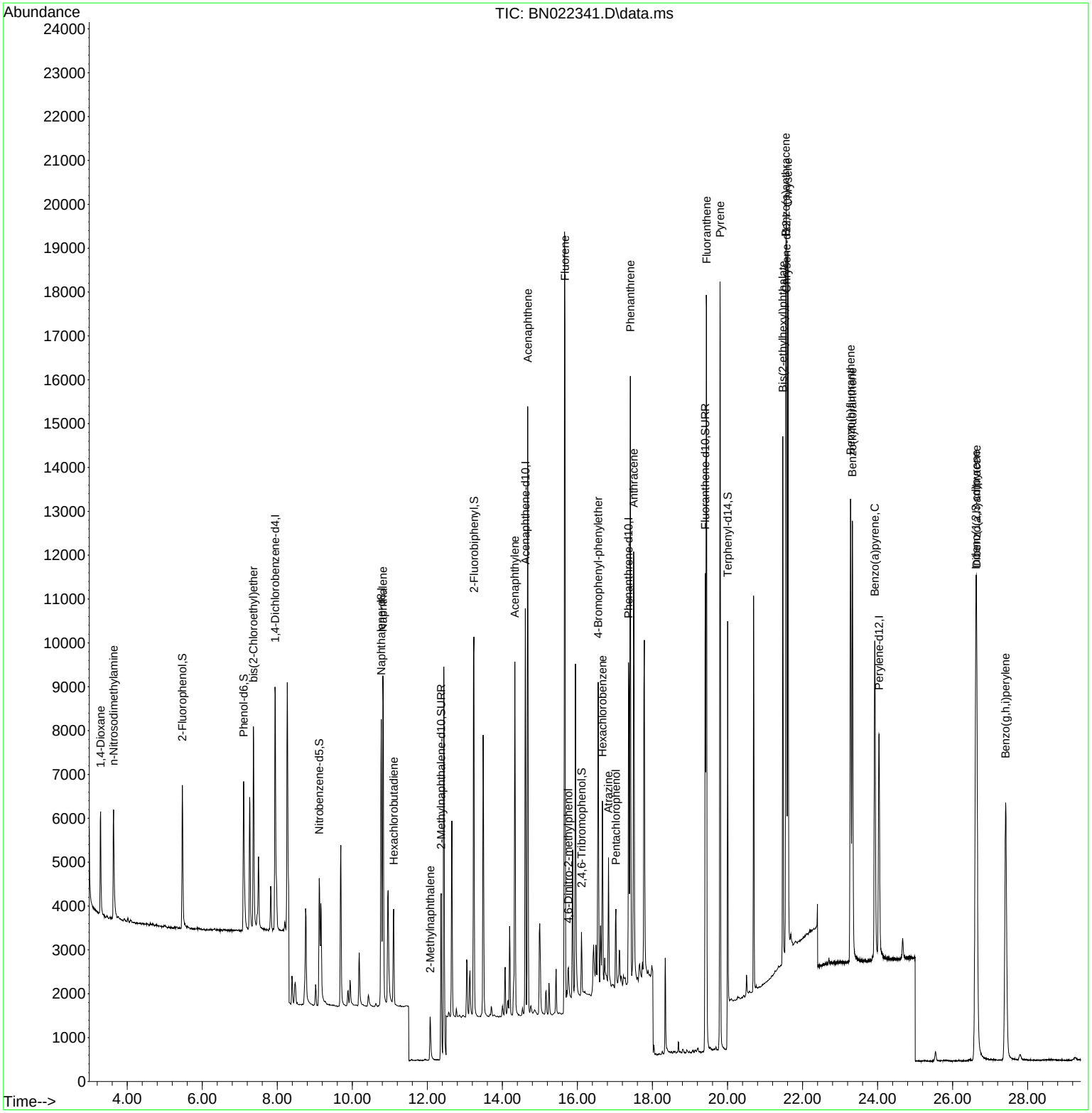
(#) = qualifier out of range (m) = manual integration (+) = signals summed

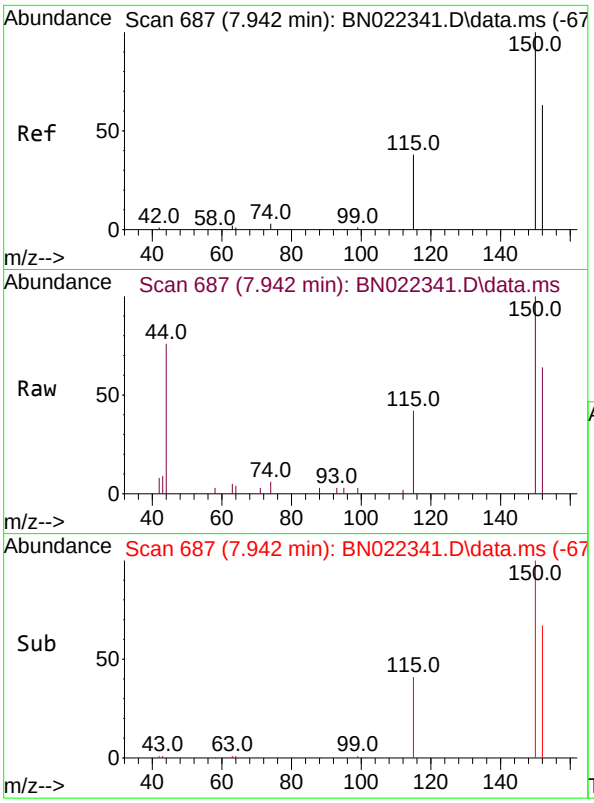
Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102722\
Data File : BN022341.D
Acq On : 26 Oct 2022 18:56
Operator : CG/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 27 06:52:29 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 27 06:48:35 2022
Response via : Initial Calibration



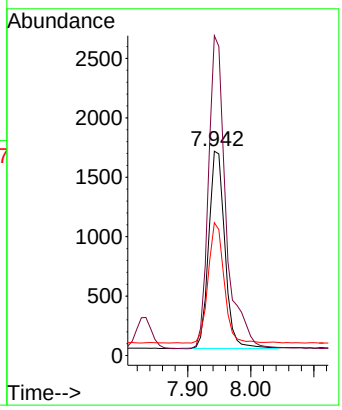


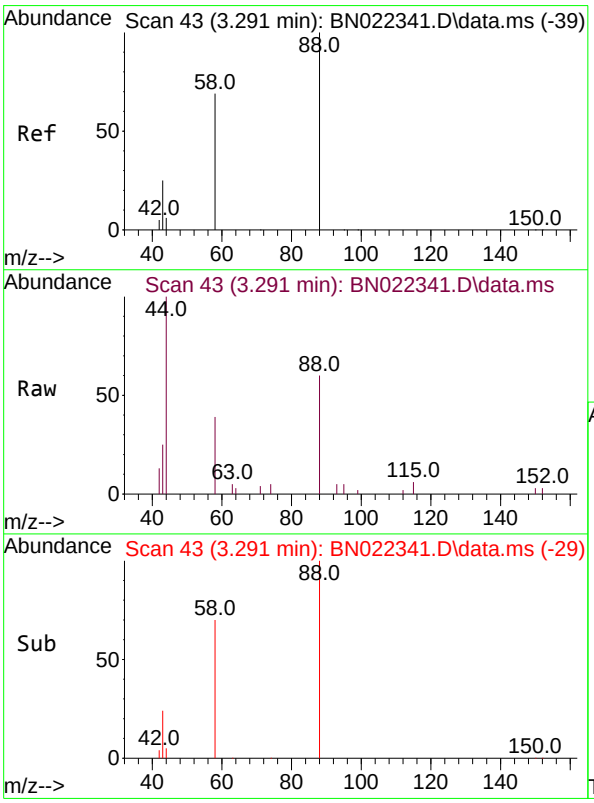
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.942 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2946

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.2	187.8
115	65.0	52.0	78.0

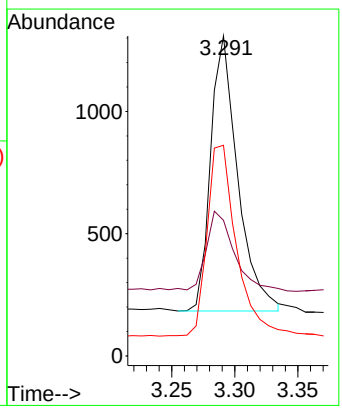


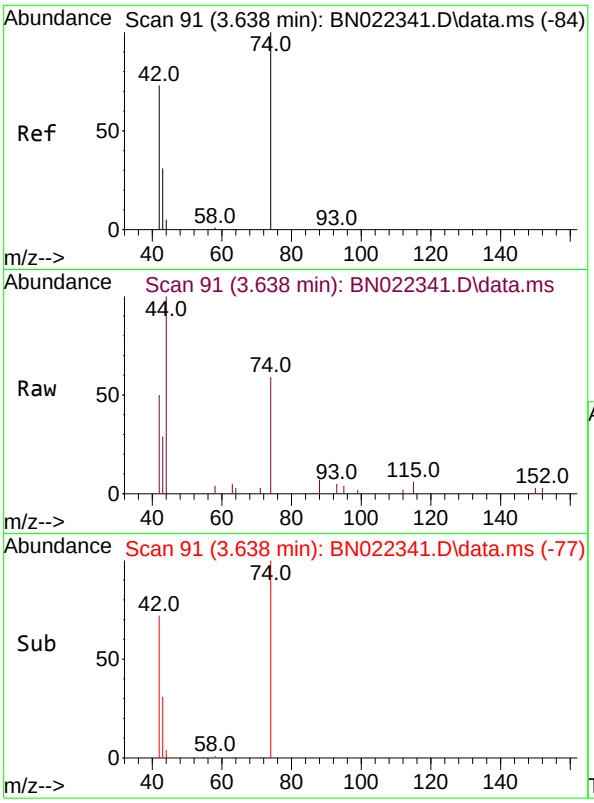


#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.291 min Scan# 43
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion: 88 Resp: 1679

Ion	Ratio	Lower	Upper
88	100		
43	28.4	22.6	33.8
58	75.0	59.7	89.5



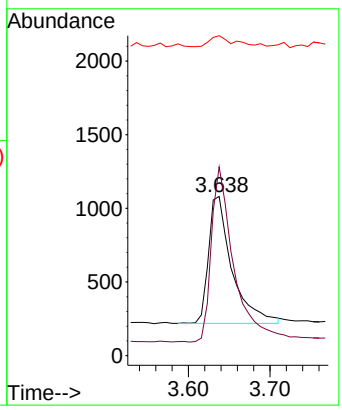


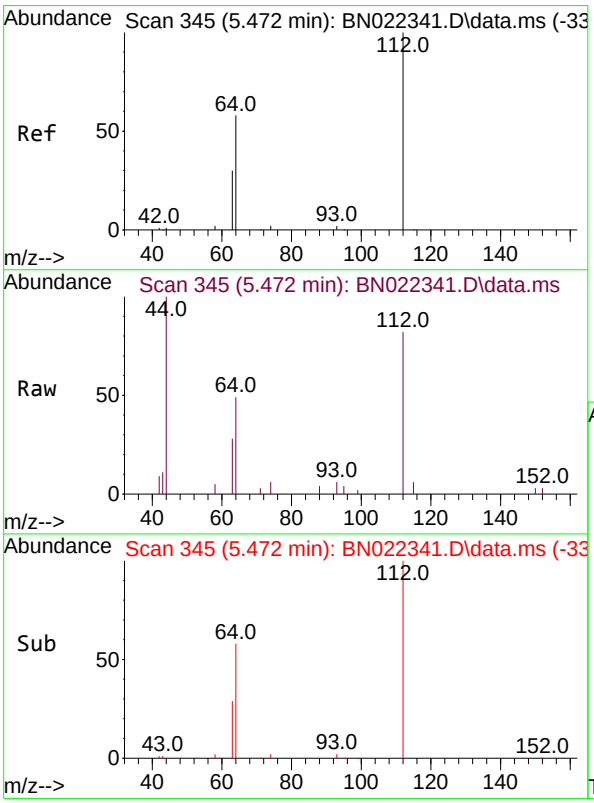
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.638 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 1721

Ion	Ratio	Lower	Upper
42	100		
74	132.0	105.6	158.4
44	8.9	7.1	10.7

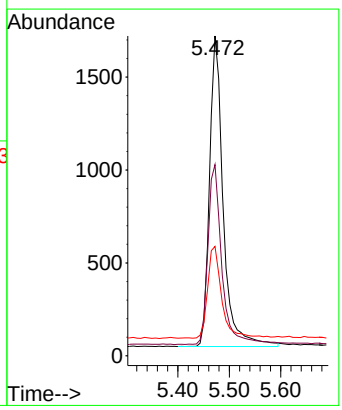


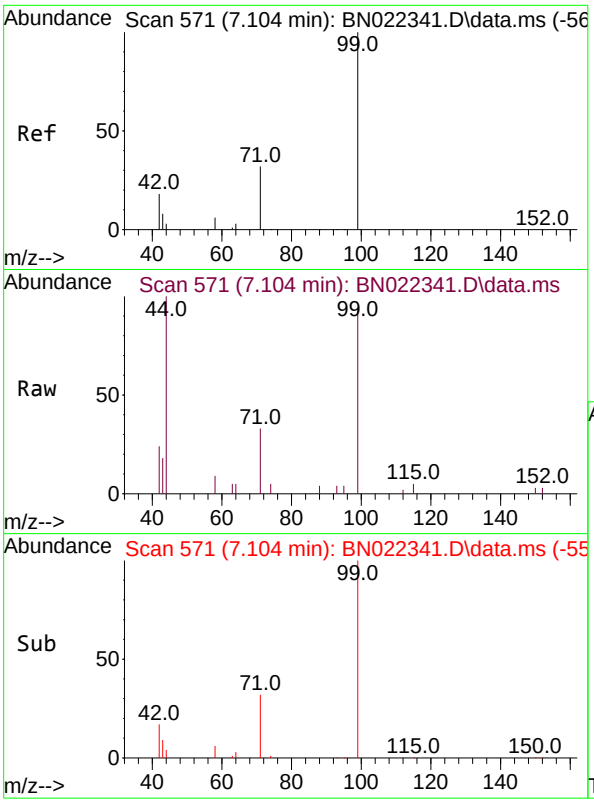


#4
2-Fluorophenol
Concen: 0.454 ng
RT: 5.472 min Scan# 345
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:112 Resp: 3099

Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.0	70.4
63	30.6	24.5	36.7



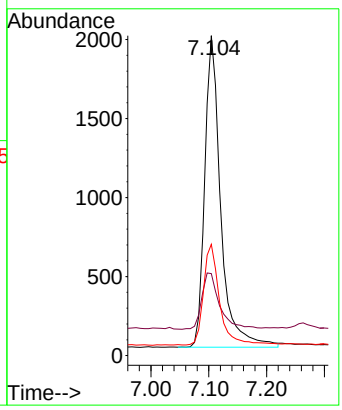


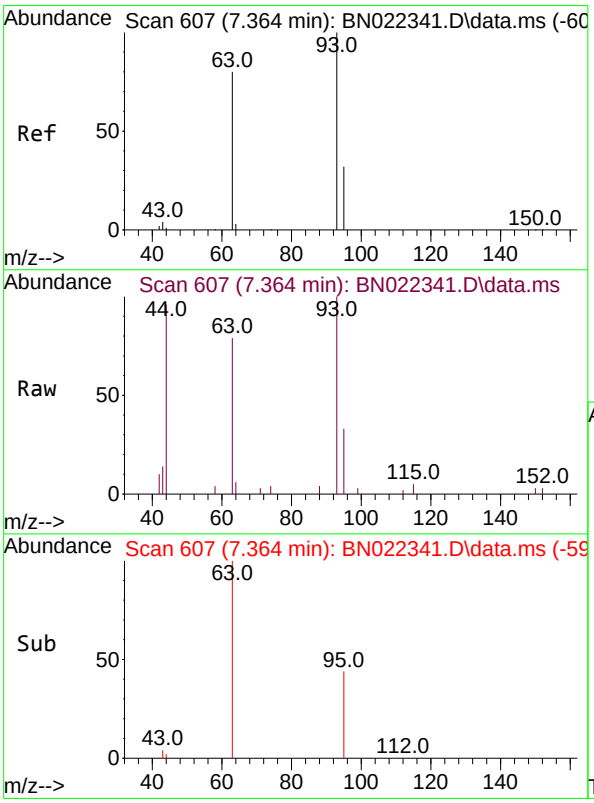
#5
Phenol-d6
Concen: 0.427 ng
RT: 7.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 3783

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.3	24.5
71	32.6	26.1	39.1

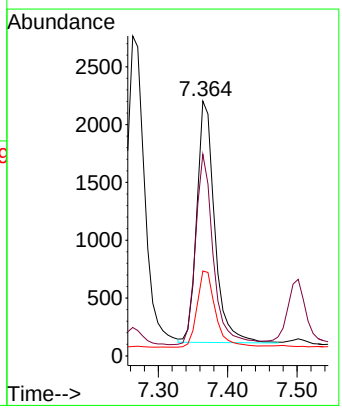


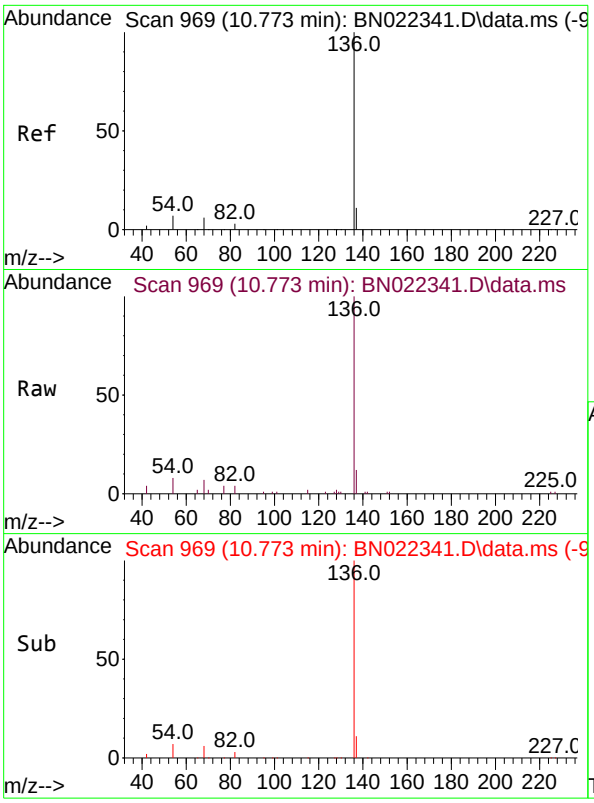


#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.364 min Scan# 607
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion: 93 Resp: 3729

Ion	Ratio	Lower	Upper
93	100		
63	78.2	62.6	93.8
95	32.6	26.1	39.1



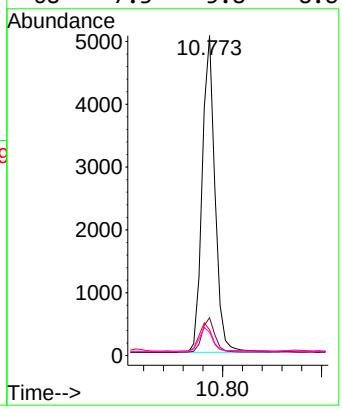


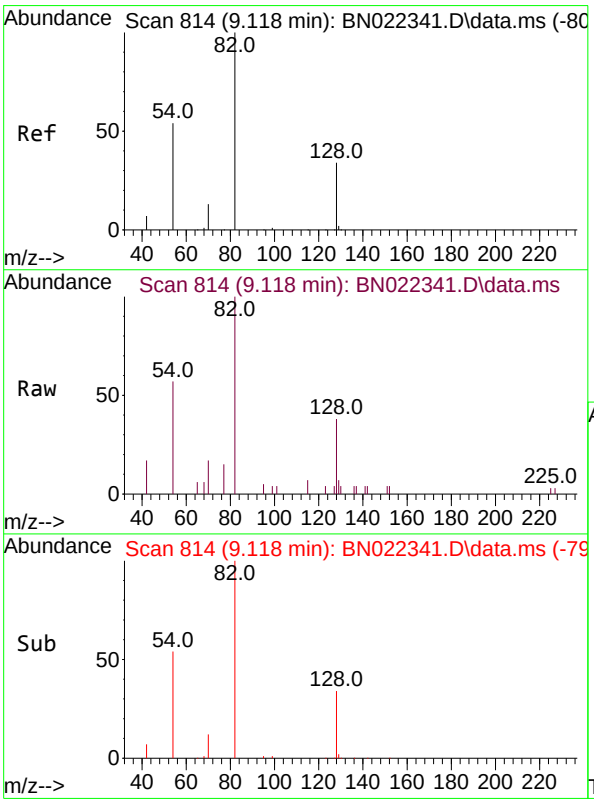
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.773 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 9062

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.4	14.2
54	8.1	6.5	9.7
68	7.3	5.8	8.8

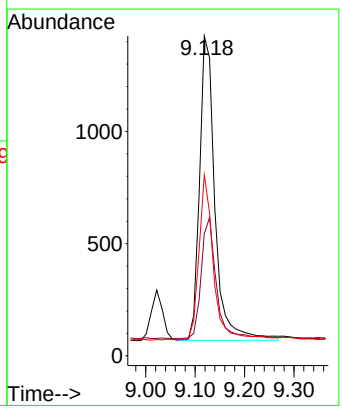


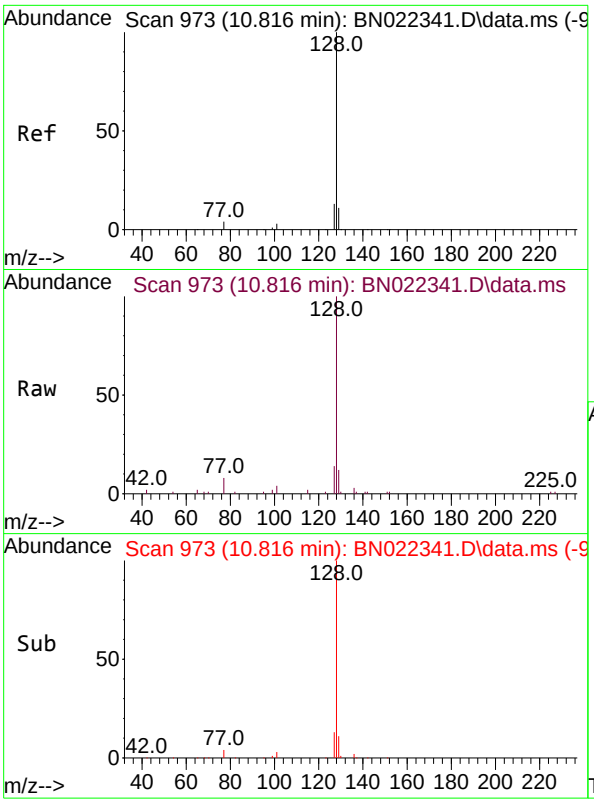


#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 9.118 min Scan# 814
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion: 82 Resp: 2947

Ion	Ratio	Lower	Upper
82	100		
128	38.1	30.5	45.7
54	56.5	45.2	67.8



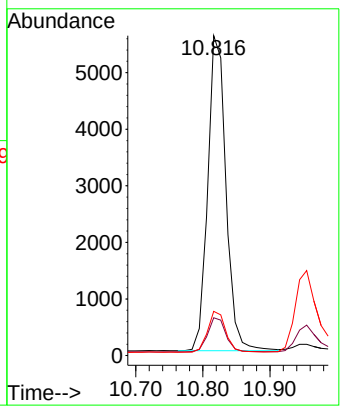


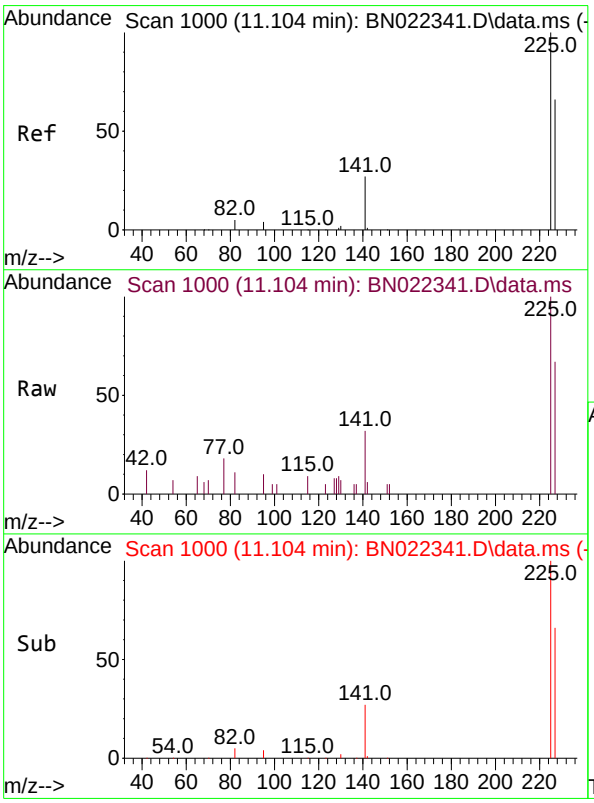
#9
Naphthalene
Concen: 0.385 ng
RT: 10.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 10535

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.4	14.2
127	13.8	11.0	16.6

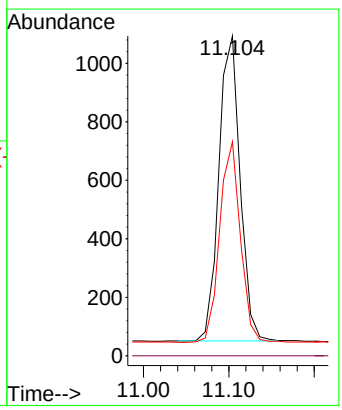


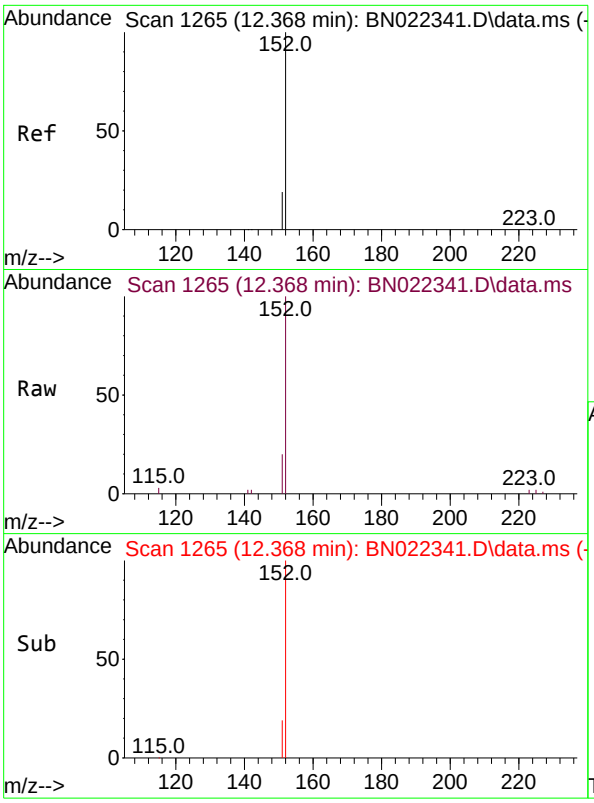


#10
Hexachlorobutadiene
Concen: 0.382 ng
RT: 11.104 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:225 Resp: 1810

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



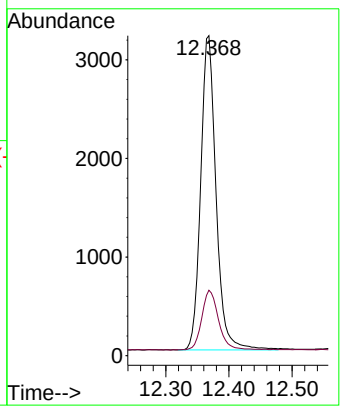


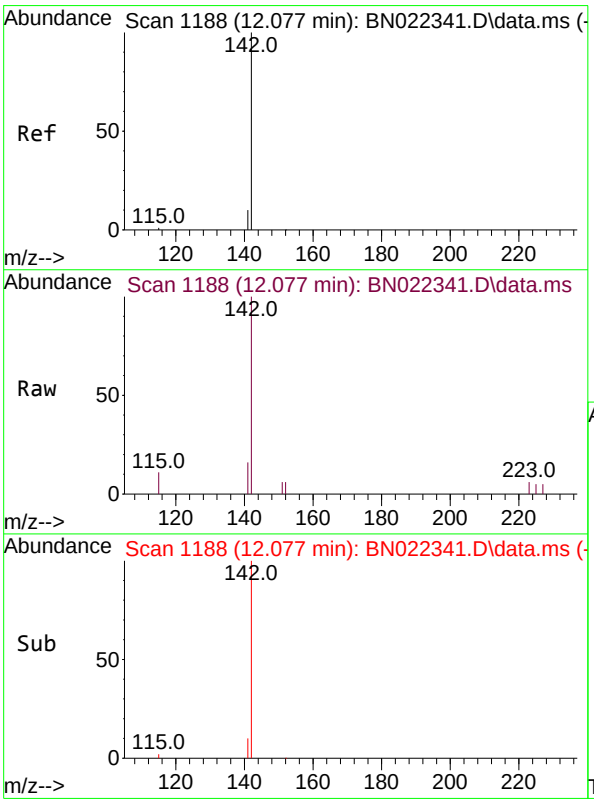
#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.368 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 5393

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

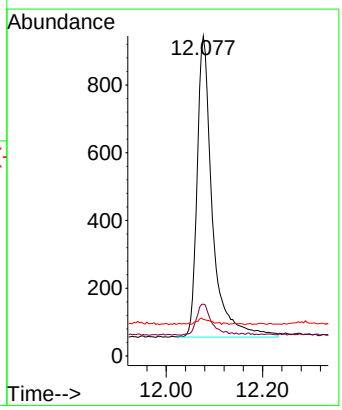


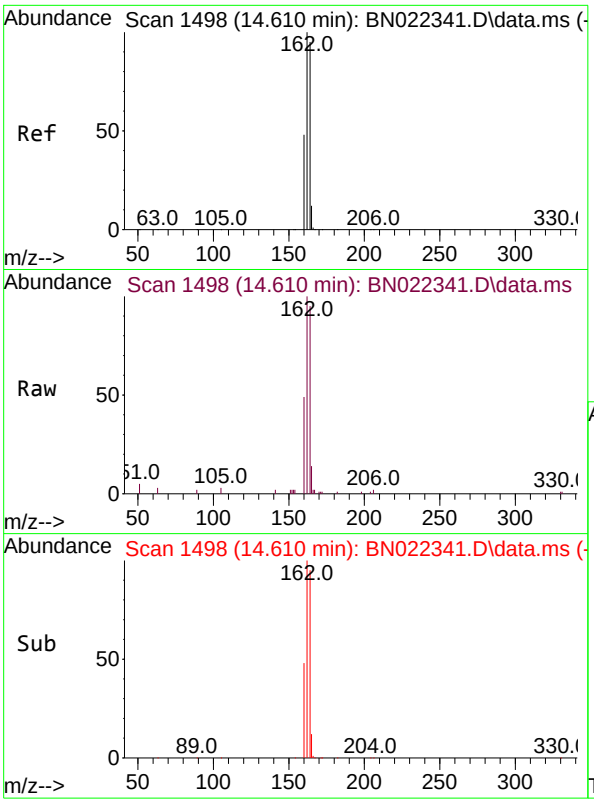


#12
2-Methylnaphthalene
Concen: 0.482 ng
RT: 12.077 min Scan# 1188
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:142 Resp: 1953

Ion	Ratio	Lower	Upper
142	100		
141	16.2	13.0	19.4
115	11.4	9.1	13.7



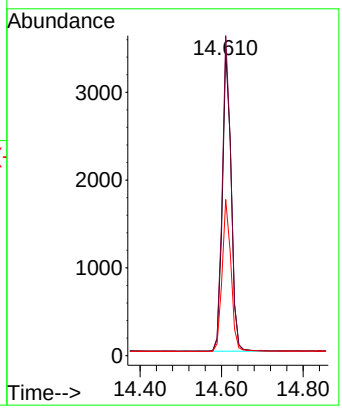


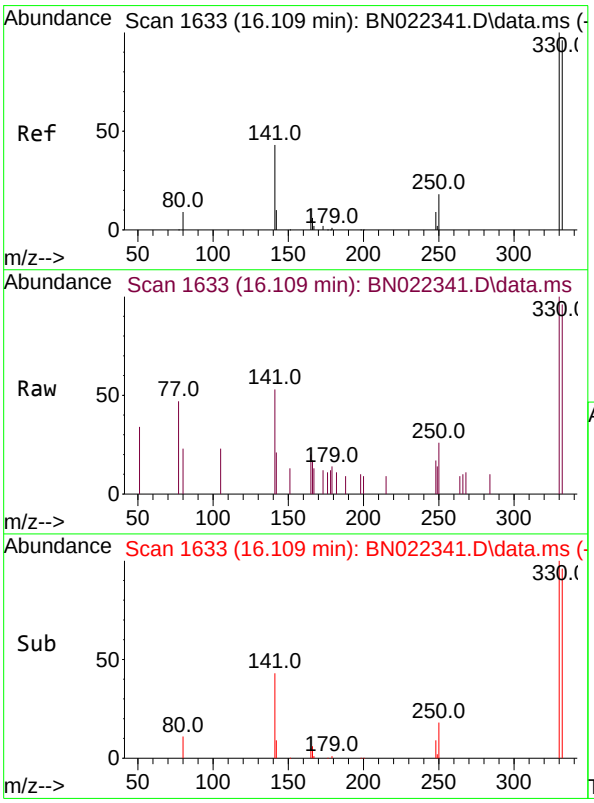
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 5107

Ion	Ratio	Lower	Upper
164	100		
162	104.9	83.9	125.9
160	51.2	41.0	61.4

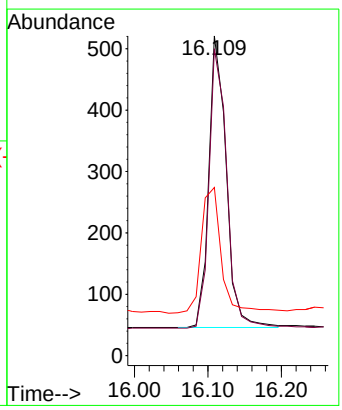


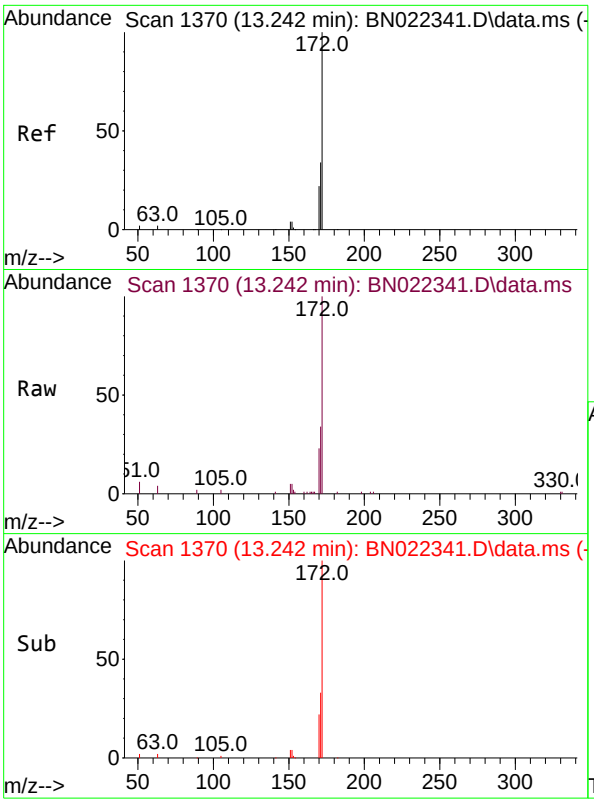


#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 16.109 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:330 Resp: 785

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.6	118.0
141	50.4	40.2	60.4



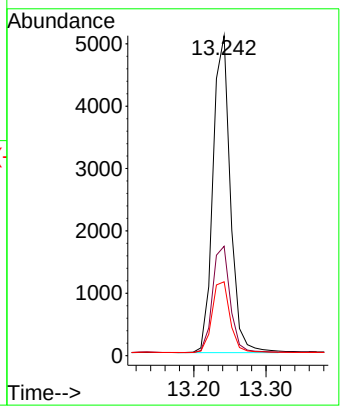


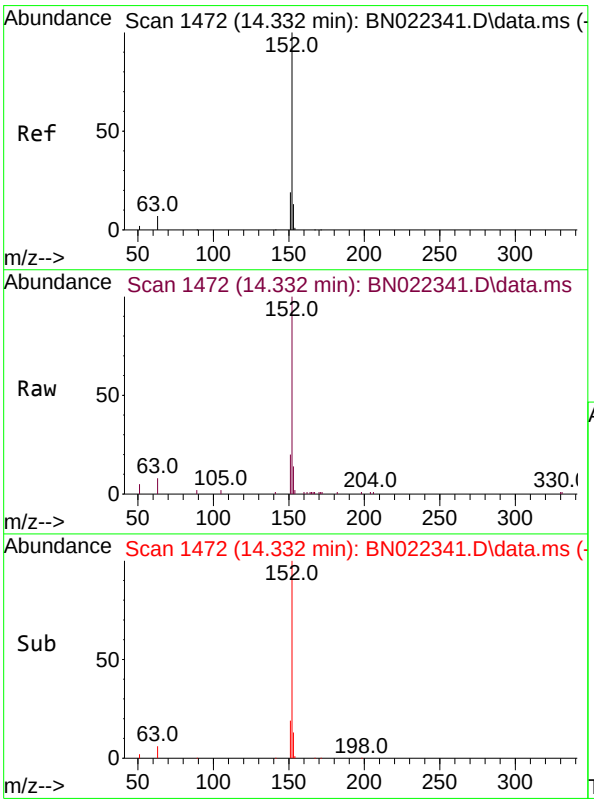
#15
2-Fluorobiphenyl
Concen: 0.382 ng
RT: 13.242 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 8518

Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.4	41.0
170	23.1	18.5	27.7

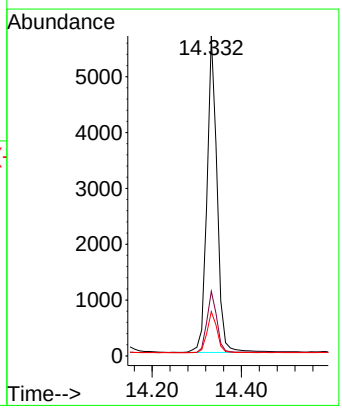


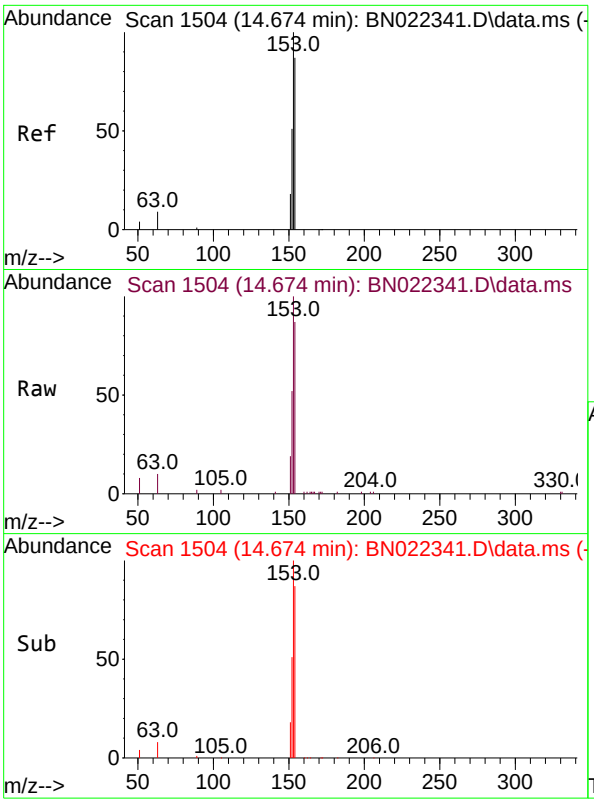


#16
Acenaphthylene
Concen: 0.369 ng
RT: 14.332 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:152 Resp: 8960

Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.2	22.8
153	12.9	10.3	15.5





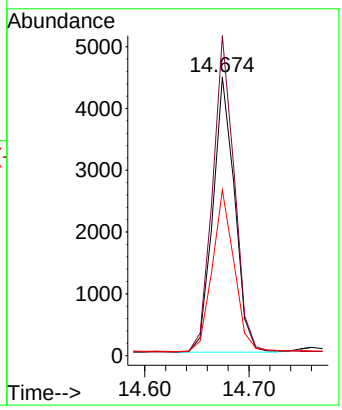
#17
Acenaphthene
Concen: 0.378 ng
RT: 14.674 min Scan# 1

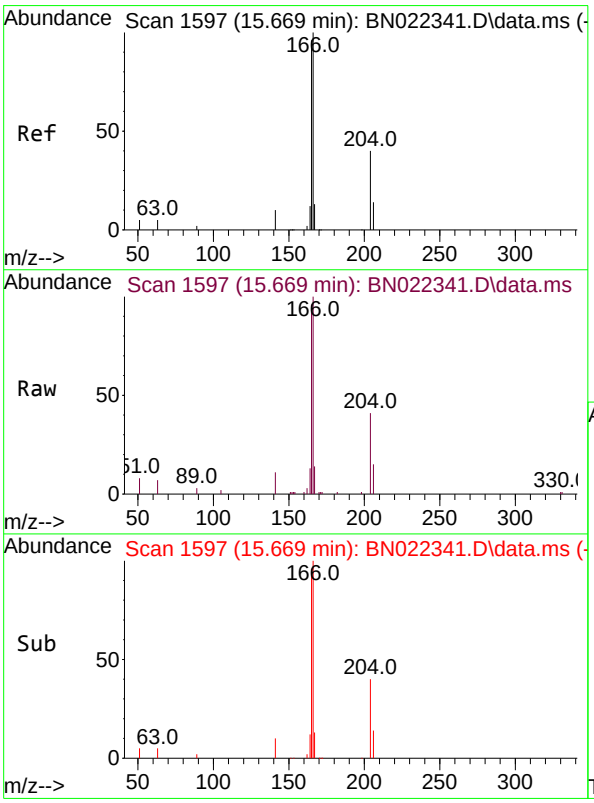
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:154 Resp: 6460

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.2	138.2
152	59.5	47.6	71.4

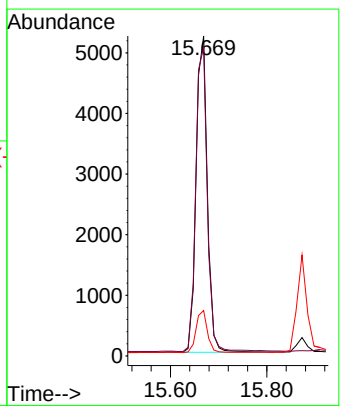


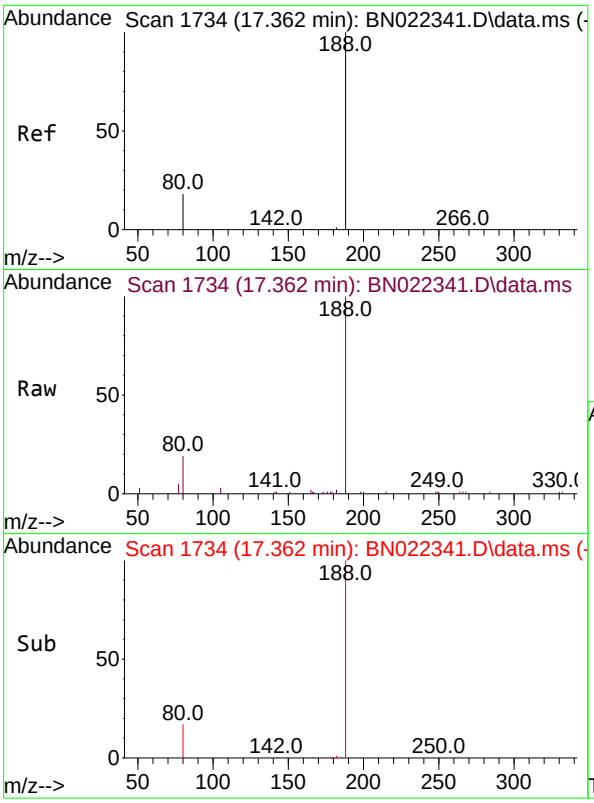


#18
Fluorene
Concen: 0.441 ng
RT: 15.669 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:166 Resp: 9092

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.6	118.0
167	12.8	10.2	15.4



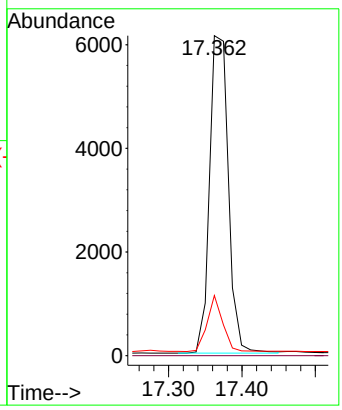


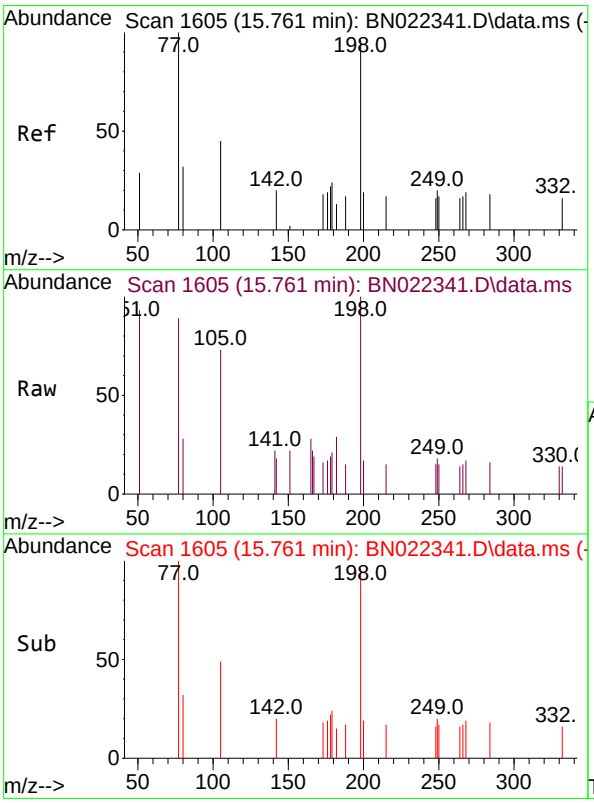
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.362 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 10947

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	18.8	15.0	22.6

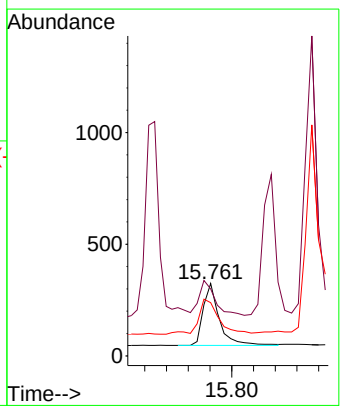


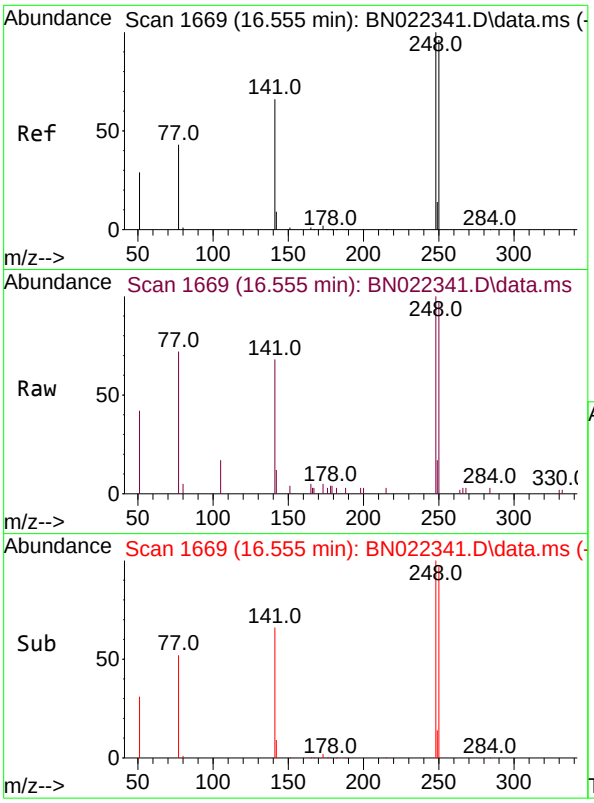


#20
4,6-Dinitro-2-methylphenol
Concen: 0.361 ng
RT: 15.761 min Scan# 1605
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:198 Resp: 564

Ion	Ratio	Lower	Upper
198	100		
51	92.6	74.1	111.1
105	73.5	58.8	88.2



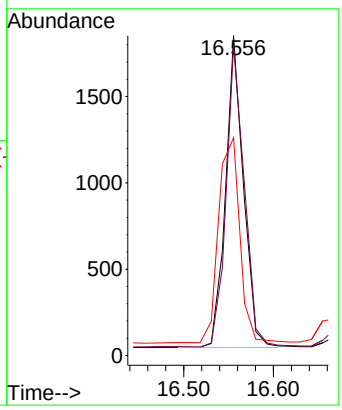


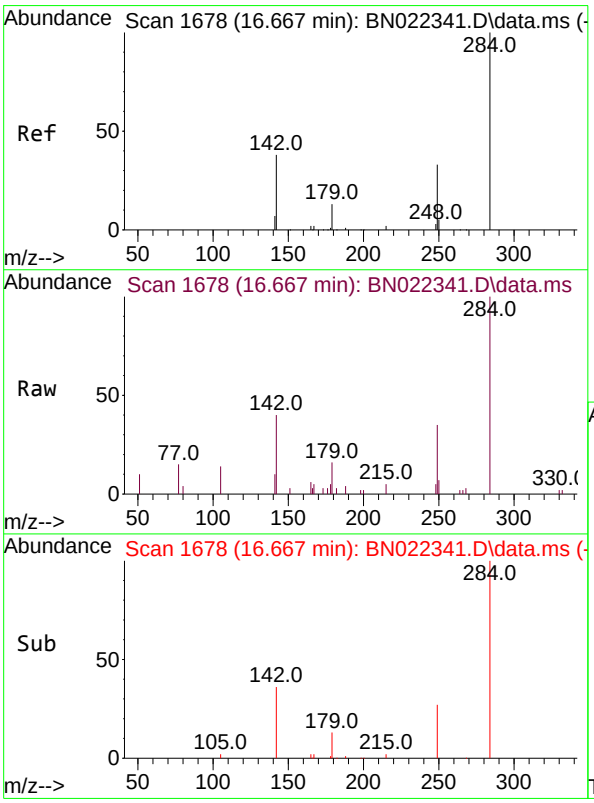
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.555 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2502

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.5	116.3
141	68.1	54.5	81.7

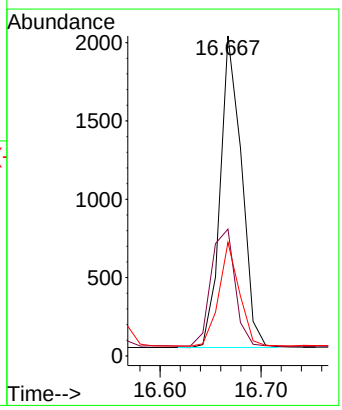


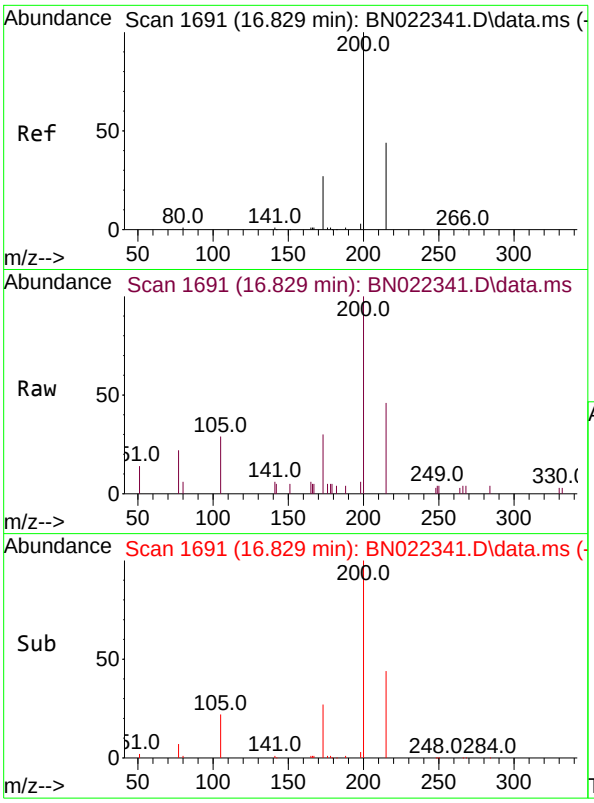


#22
Hexachlorobenzene
Concen: 0.352 ng
RT: 16.667 min Scan# 1678
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:284 Resp: 2917

Ion	Ratio	Lower	Upper
284	100		
142	42.3	33.8	50.8
249	32.0	25.5	38.3



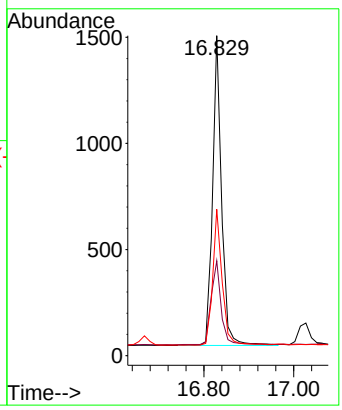


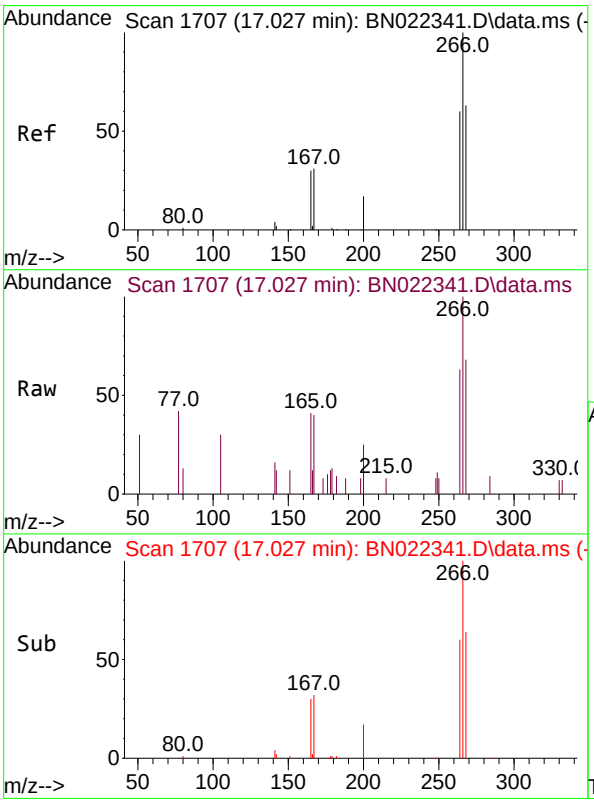
#23
Atrazine
Concen: 0.413 ng
RT: 16.829 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 2043

Ion	Ratio	Lower	Upper
200	100		
173	29.6	23.7	35.5
215	45.8	36.6	55.0

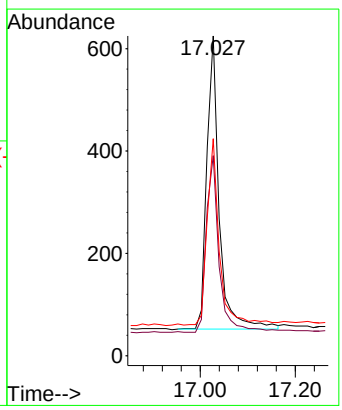


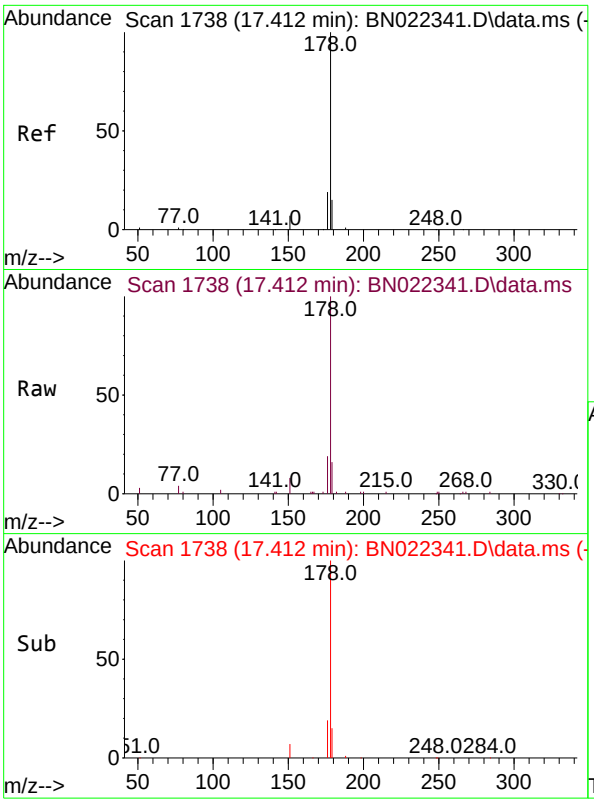


#24
Pentachlorophenol
Concen: 0.406 ng
RT: 17.027 min Scan# 1707
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:266 Resp: 1034

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.1	73.7
268	63.1	49.6	74.4



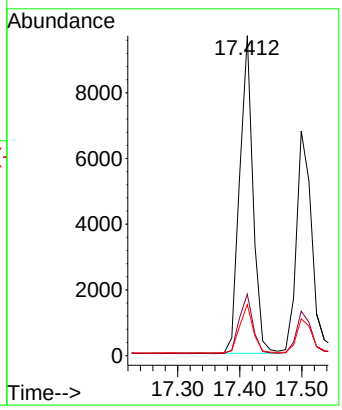


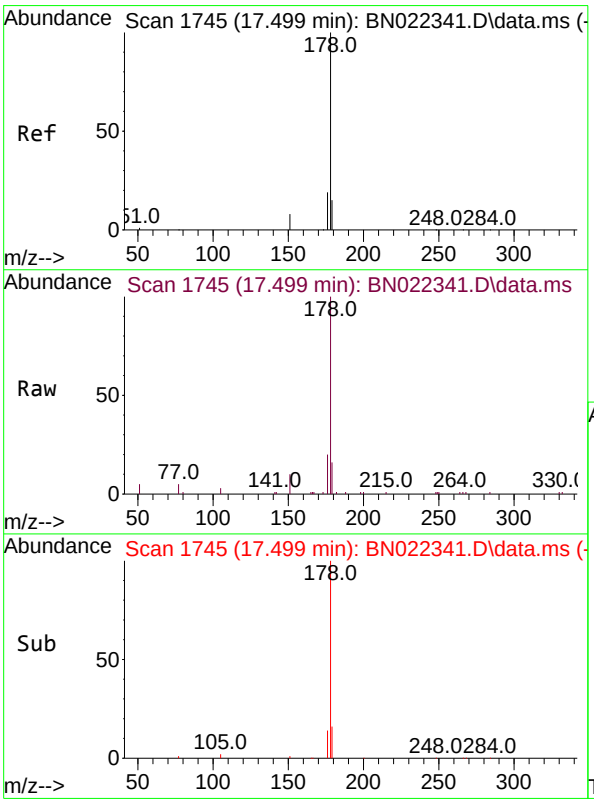
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 14359

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.5	18.7

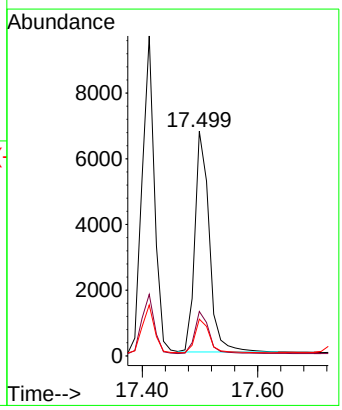


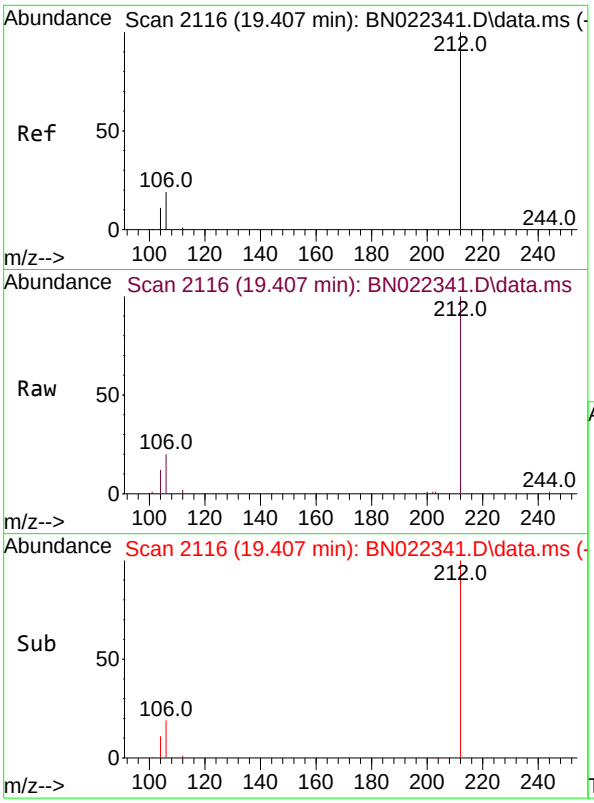


#26
Anthracene
Concen: 0.385 ng
RT: 17.499 min Scan# 1745
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:178 Resp: 11644

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.2	18.4



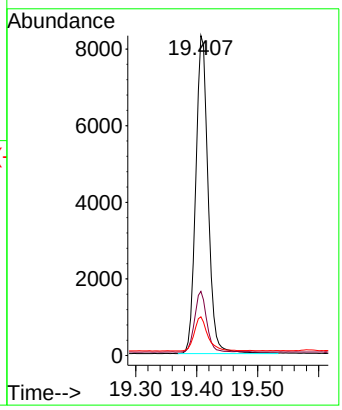


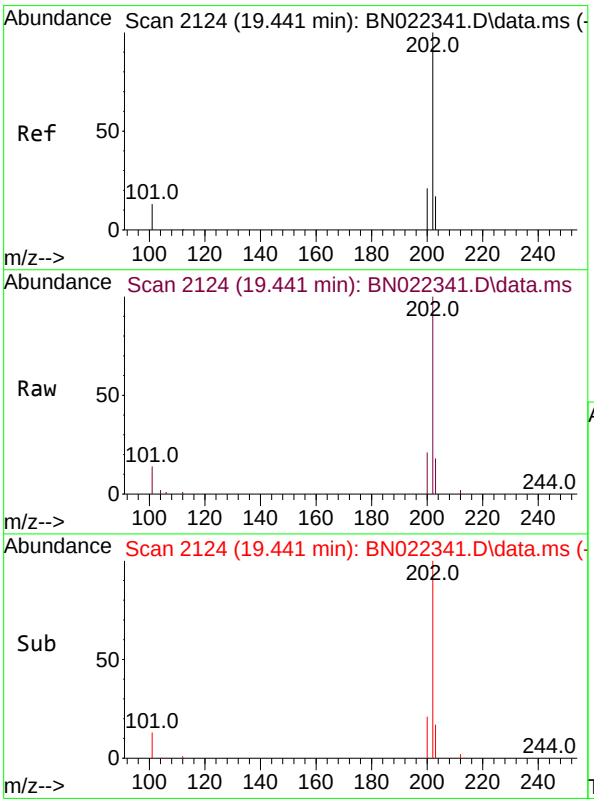
#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.407 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 11629

Ion	Ratio	Lower	Upper
212	100		
106	18.7	15.0	22.4
104	11.6	9.3	13.9

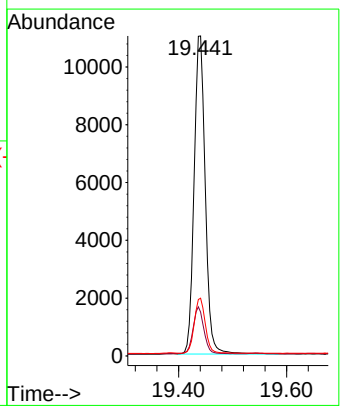


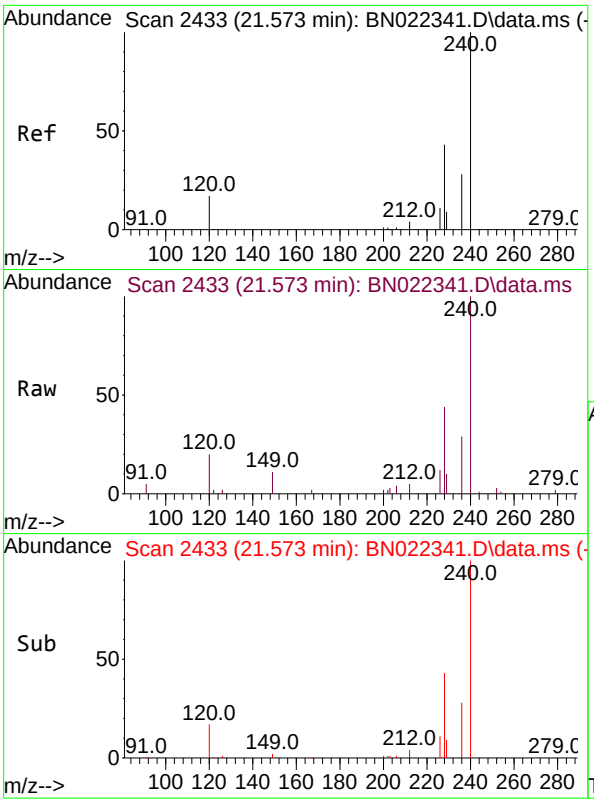


#28
Fluoranthene
Concen: 0.391 ng
RT: 19.441 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:202 Resp: 15746

Ion	Ratio	Lower	Upper
202	100		
101	14.2	11.4	17.0
203	17.1	13.7	20.5



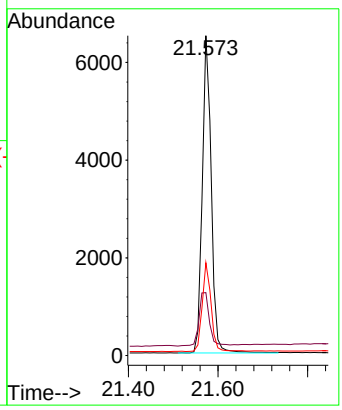


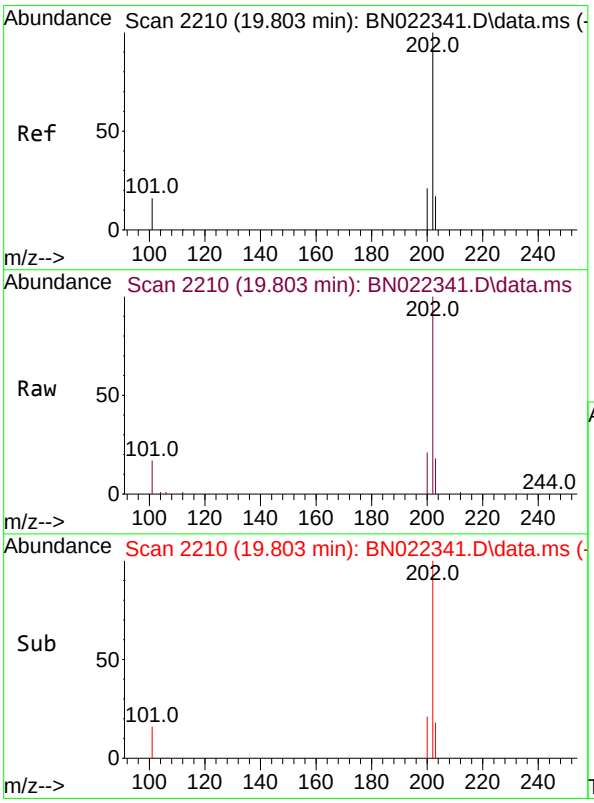
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.573 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9060

Ion	Ratio	Lower	Upper
240	100		
120	19.7	15.8	23.6
236	29.0	23.2	34.8

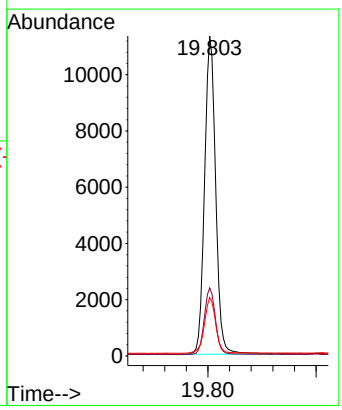


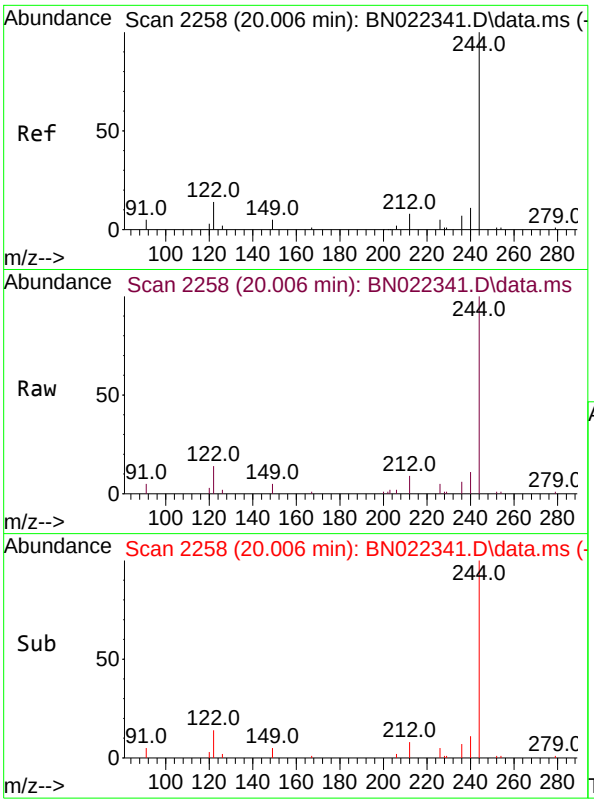


#30
Pyrene
Concen: 0.404 ng
RT: 19.803 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:202 Resp: 16084

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.2	21.2



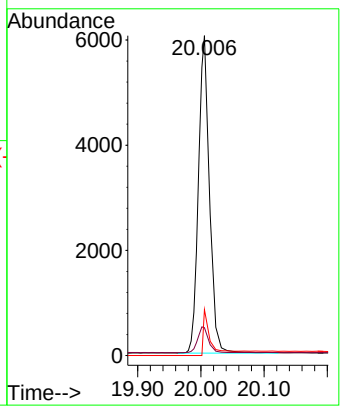


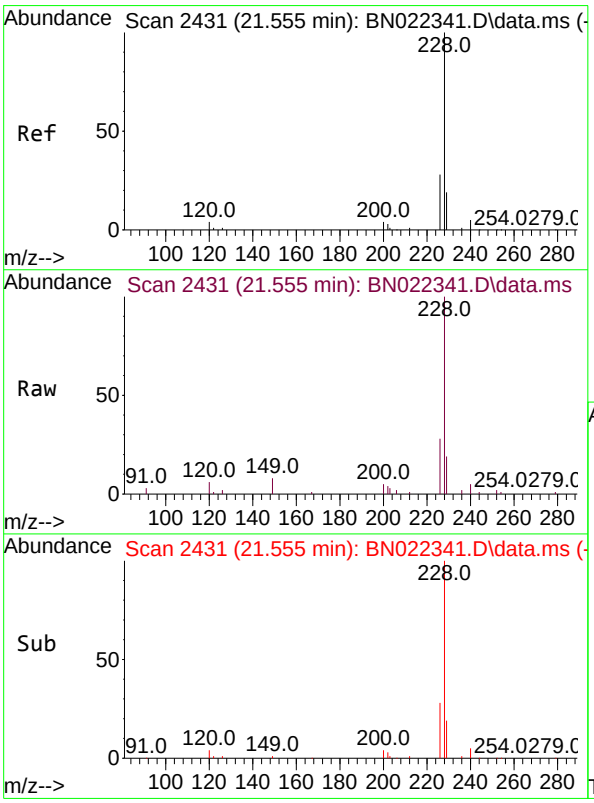
#31
Terphenyl-d14
Concen: 0.493 ng
RT: 20.006 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 8971

Ion	Ratio	Lower	Upper
244	100		
212	8.7	7.0	10.4
122	14.4	11.5	17.3

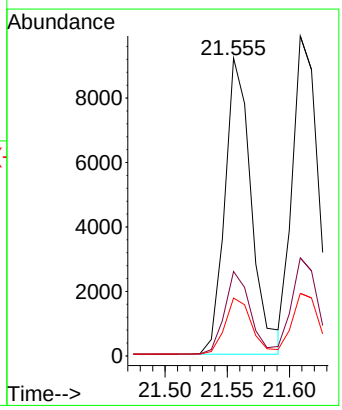


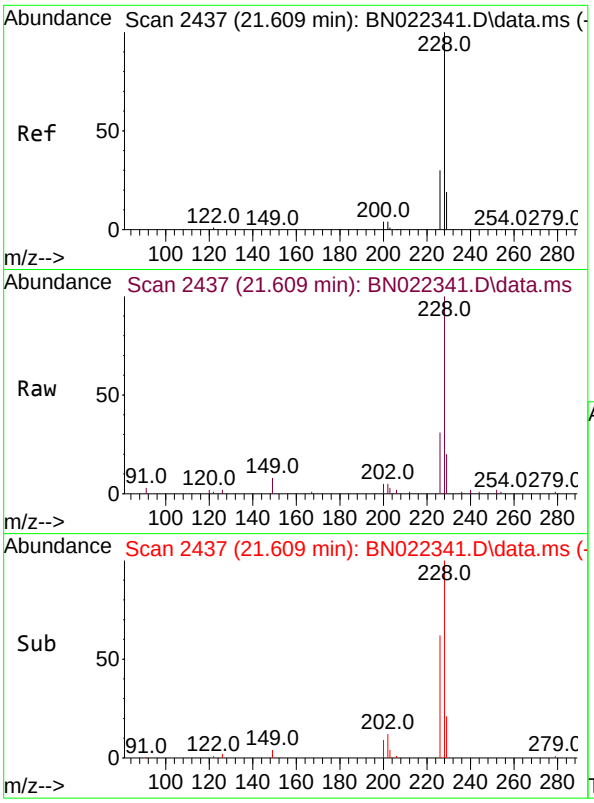


#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.555 min Scan# 2431
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:228 Resp: 13633

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	19.4	15.5	23.3



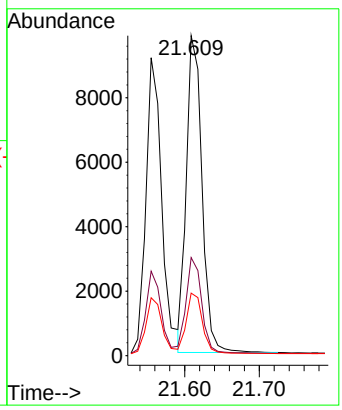


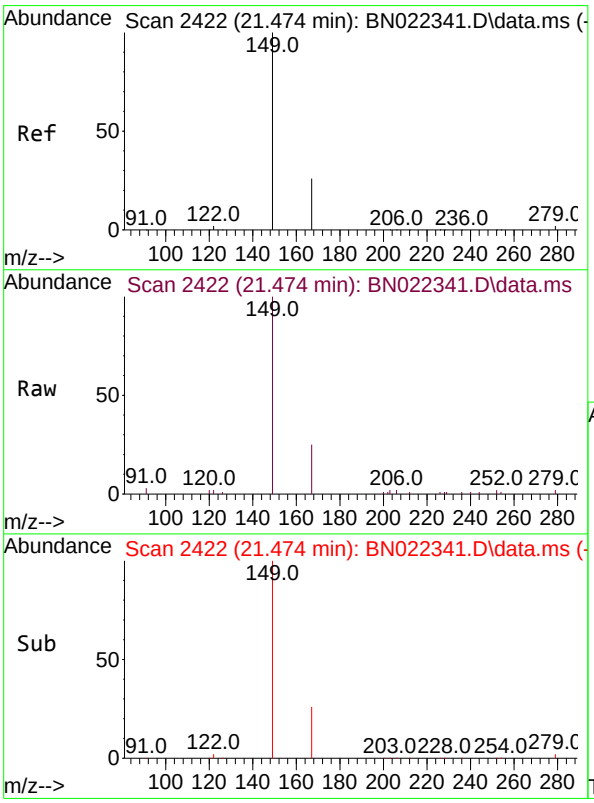
#33
Chrysene
Concen: 0.380 ng
RT: 21.609 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 14363

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	19.5	15.6	23.4

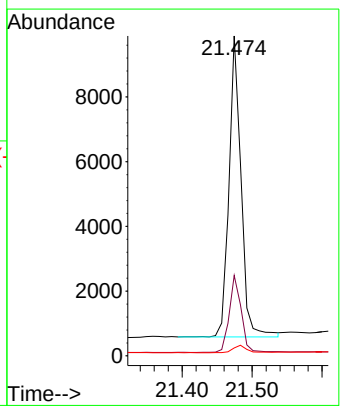


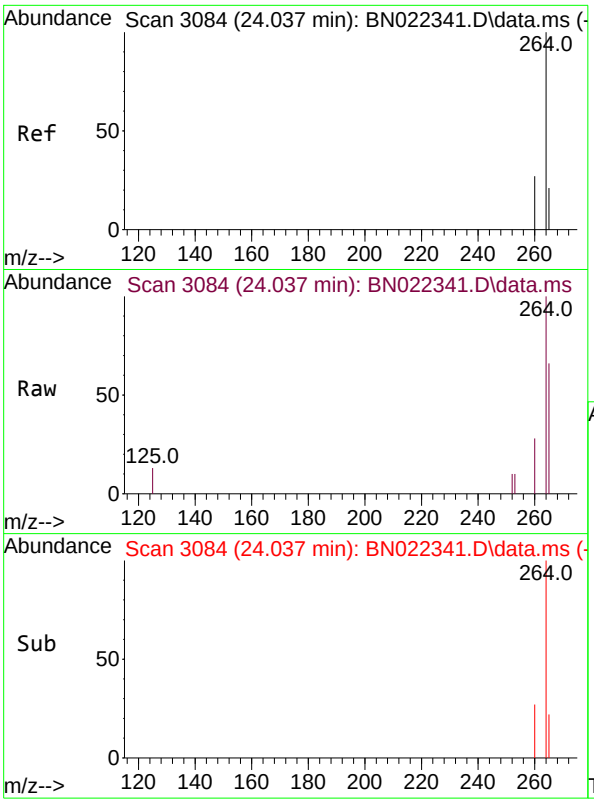


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.681 ng
RT: 21.474 min Scan# 2422
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:149 Resp: 11131

Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.2	30.4
279	2.9	2.3	3.5



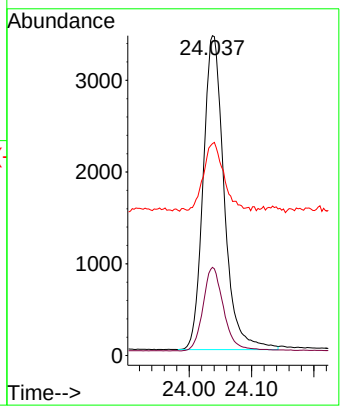


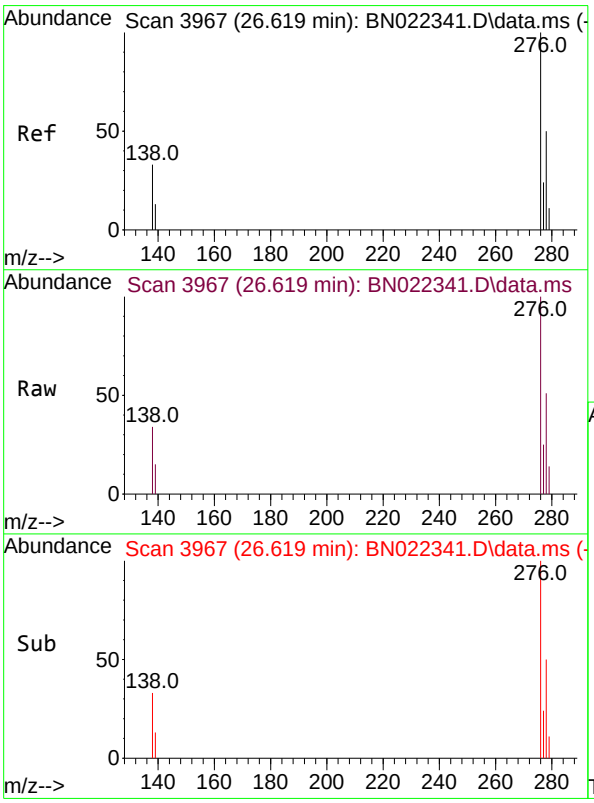
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.037 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 8006

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.1	33.1
265	66.2	53.0	79.4

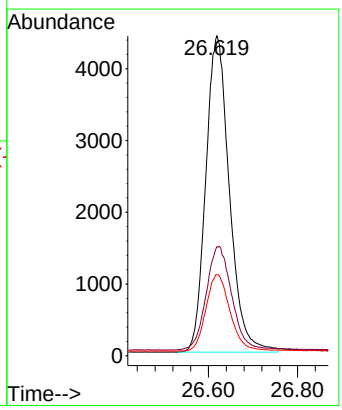


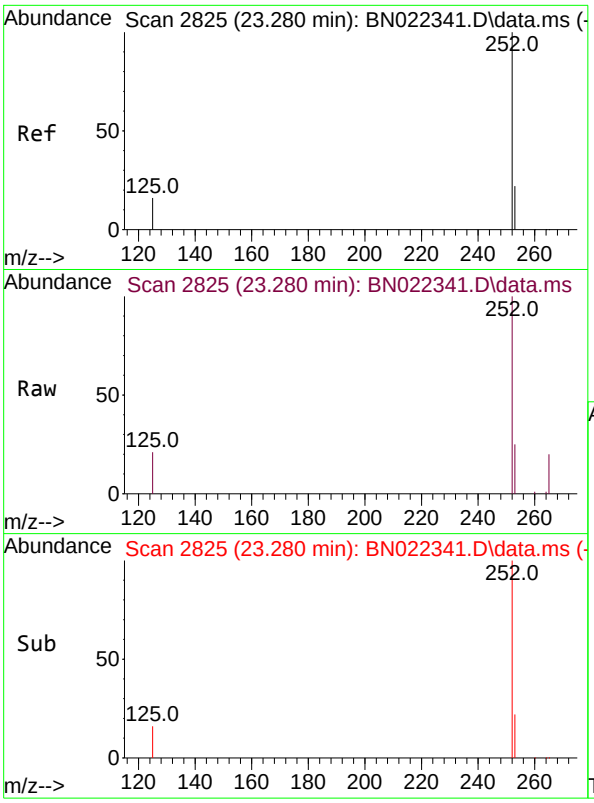


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.401 ng
RT: 26.619 min Scan# 3967
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:276 Resp: 16223

Ion	Ratio	Lower	Upper
276	100		
138	35.4	28.2	42.2
277	24.6	19.7	29.5



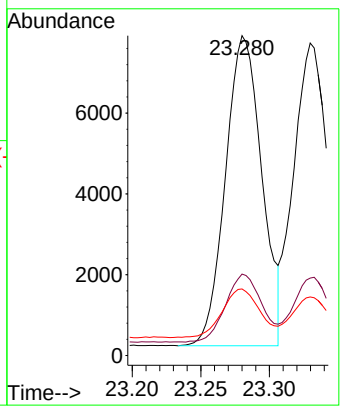


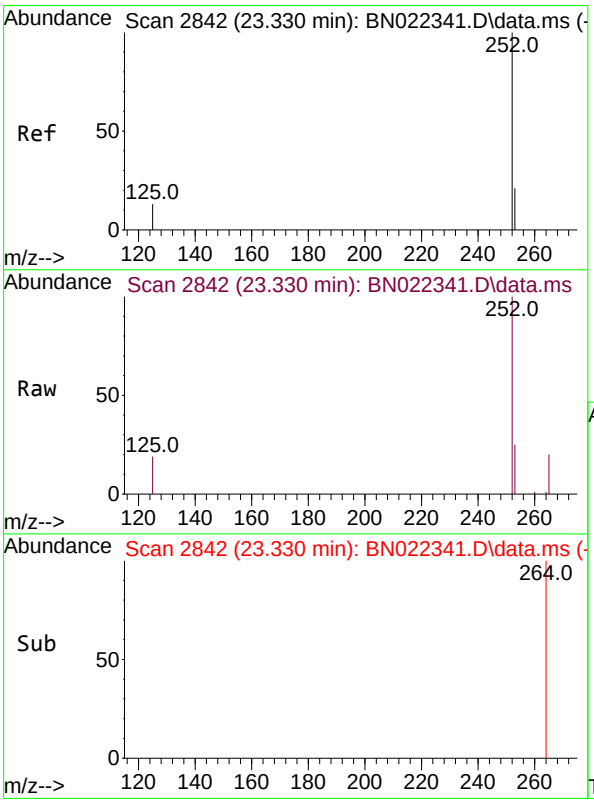
#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 23.280 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14164

Ion	Ratio	Lower	Upper
252	100		
253	25.5	20.4	30.6
125	20.8	16.6	25.0

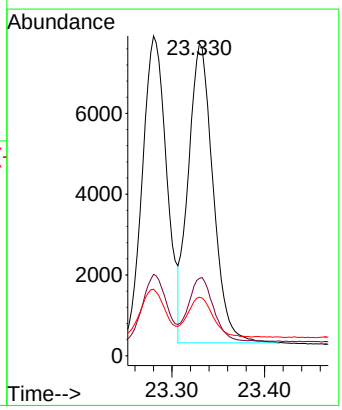


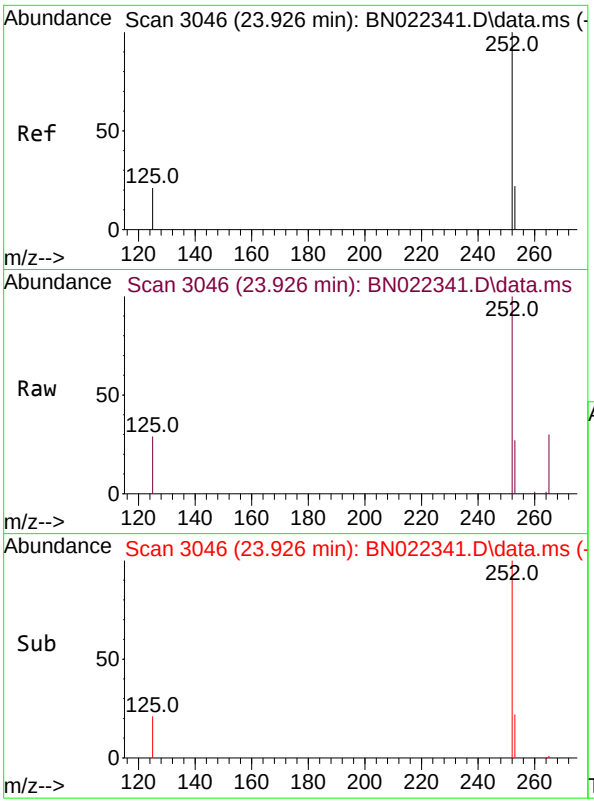


#38
Benzo(k)fluoranthene
Concen: 0.364 ng
RT: 23.330 min Scan# 2842
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:252 Resp: 13749

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.8
125	18.8	15.0	22.6



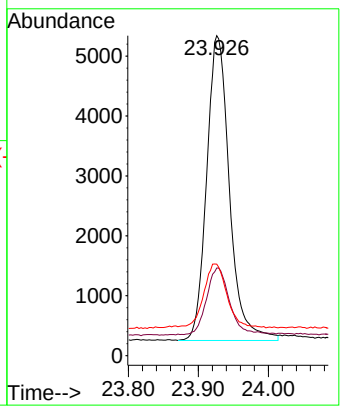


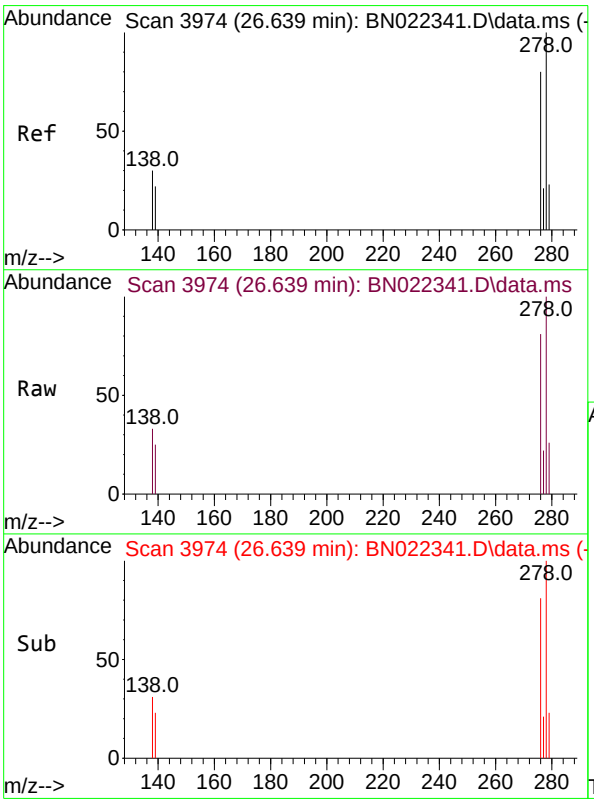
#39
Benzo(a)pyrene
Concen: 0.398 ng
RT: 23.926 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 11515

Ion	Ratio	Lower	Upper
252	100		
253	27.4	21.9	32.9
125	28.6	22.9	34.3

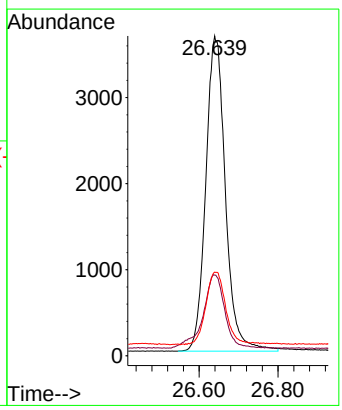


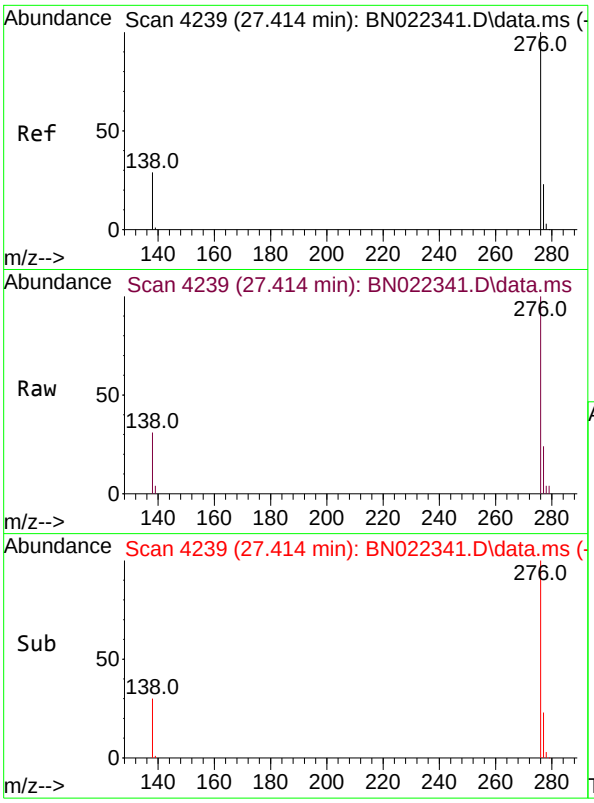


#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 26.639 min Scan# 3974
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Tgt Ion:278 Resp: 12650

Ion	Ratio	Lower	Upper
278	100		
139	25.2	20.2	30.2
279	26.2	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 27.414 min Scan# 4
Delta R.T. 0.000 min
Lab File: BN022341.D
Acq: 26 Oct 2022 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13411

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.5	29.3
138	31.2	25.0	37.4