Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN012723\
Data File : BN023815.D
Acq On : 26 Jan 2023 12:44
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jan 27 00:49:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 27 00:48:39 2023
Response via : Initial Calibration

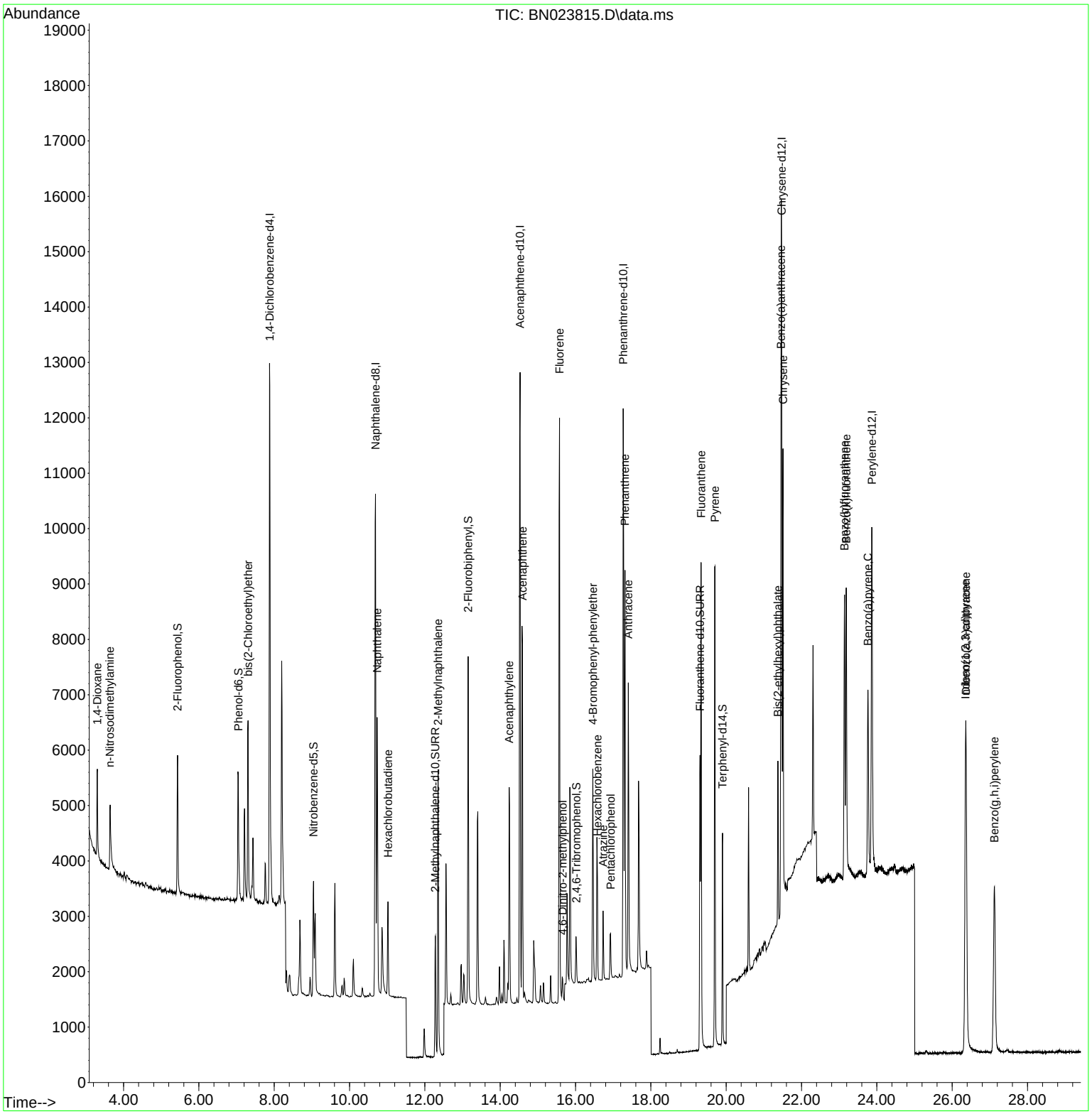
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.883	152	4908	0.400	ng		0.00
7) Naphthalene-d8	10.690	136	12914	0.400	ng		0.00
13) Acenaphthene-d10	14.527	164	6777	0.400	ng		0.00
19) Phenanthrene-d10	17.265	188	14537	0.400	ng		0.00
29) Chrysene-d12	21.473	240	10598	0.400	ng		# 0.00
35) Perylene-d12	23.869	264	9407	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.435	112	2063	0.202	ng		0.00
5) Phenol-d6	7.045	99	2317	0.192	ng		0.00
8) Nitrobenzene-d5	9.046	82	1864	0.190	ng		0.00
11) 2-Methylnaphthalene-d10	12.276	152	3226	0.189	ng		0.00
14) 2,4,6-Tribromophenol	16.024	330	495	0.167	ng		0.01
15) 2-Fluorobiphenyl	13.148	172	5430	0.201	ng		0.00
27) Fluoranthene-d10	19.304	212	6255	0.184	ng		0.00
31) Terphenyl-d14	19.903	244	4303	0.214	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.304	88	1051	0.203	ng		99
3) n-Nitrosodimethylamine	3.636	42	1012	0.184	ng	#	97
6) bis(2-Chloroethyl)ether	7.305	93	2481	0.203	ng		100
9) Naphthalene	10.733	128	6368	0.197	ng		99
10) Hexachlorobutadiene	11.021	225	1263	0.194	ng	#	98
12) 2-Methylnaphthalene	12.352	142	3892	0.188	ng		99
16) Acenaphthylene	14.238	152	4738	0.176	ng		99
17) Acenaphthene	14.591	154	3549	0.197	ng		99
18) Fluorene	15.575	166	4702	0.192	ng		100
20) 4,6-Dinitro-2-methylph...	15.660	198	381	0.182	ng		86
21) 4-Bromophenyl-phenylether	16.459	248	1571	0.194	ng		99
22) Hexachlorobenzene	16.583	284	1950	0.201	ng		98
23) Atrazine	16.732	200	992	0.169	ng		98
24) Pentachlorophenol	16.930	266	513	0.161	ng		98
25) Phenanthrene	17.315	178	7751	0.192	ng		99
26) Anthracene	17.402	178	5918	0.181	ng		100
28) Fluoranthene	19.334	202	8091	0.183	ng		99
30) Pyrene	19.700	202	8212	0.228	ng		99
32) Benzo(a)anthracene	21.455	228	6005	0.186	ng		100
33) Chrysene	21.509	228	7024	0.197	ng		99
34) Bis(2-ethylhexyl)phtha...	21.374	149	2798	0.191	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.354	276	7649	0.196	ng		99
37) Benzo(b)fluoranthene	23.141	252	6941	0.196	ng	#	85
38) Benzo(k)fluoranthene	23.188	252	6675	0.191	ng	#	86
39) Benzo(a)pyrene	23.764	252	5177	0.195	ng	#	78
40) Dibenzo(a,h)anthracene	26.369	278	6127	0.194	ng		94
41) Benzo(g,h,i)perylene	27.123	276	6748	0.201	ng		96

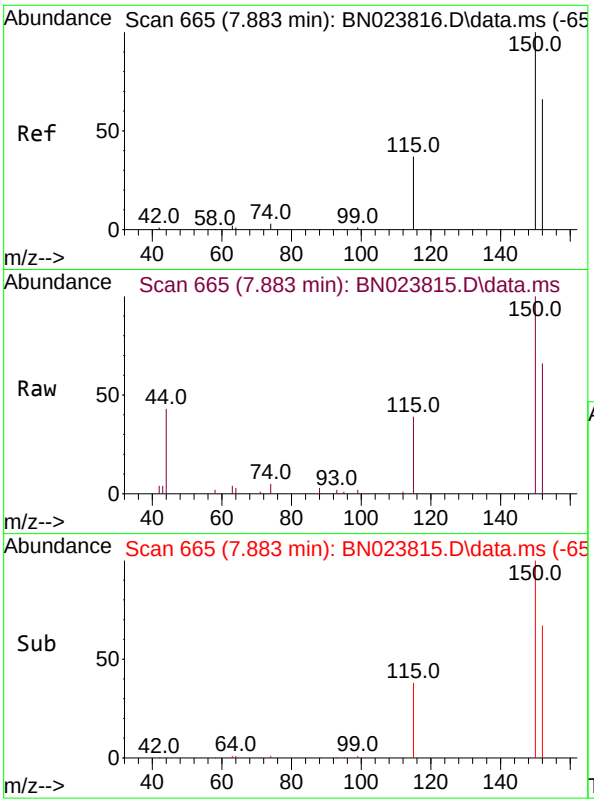
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN012723\
Data File : BN023815.D
Acq On : 26 Jan 2023 12:44
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jan 27 00:49:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 27 00:48:39 2023
Response via : Initial Calibration



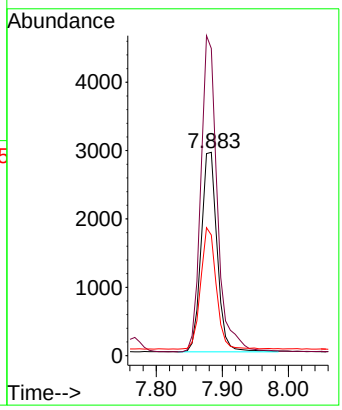


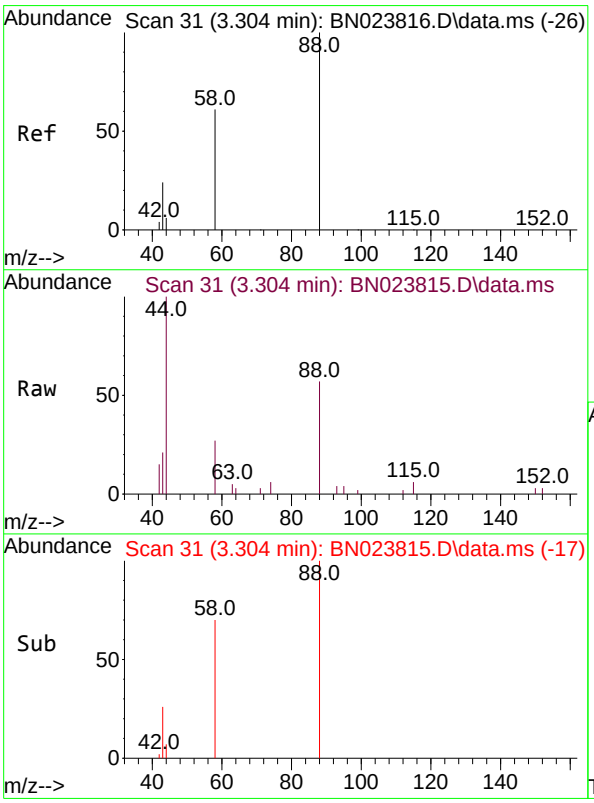
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.883 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4908

Ion	Ratio	Lower	Upper
152	100		
150	151.0	120.5	180.7
115	59.3	46.4	69.6

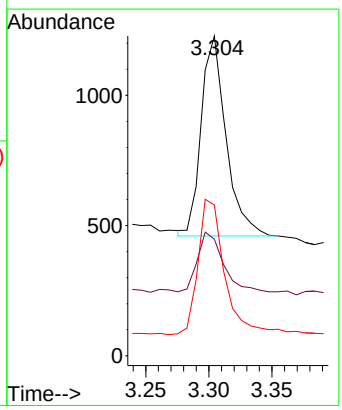


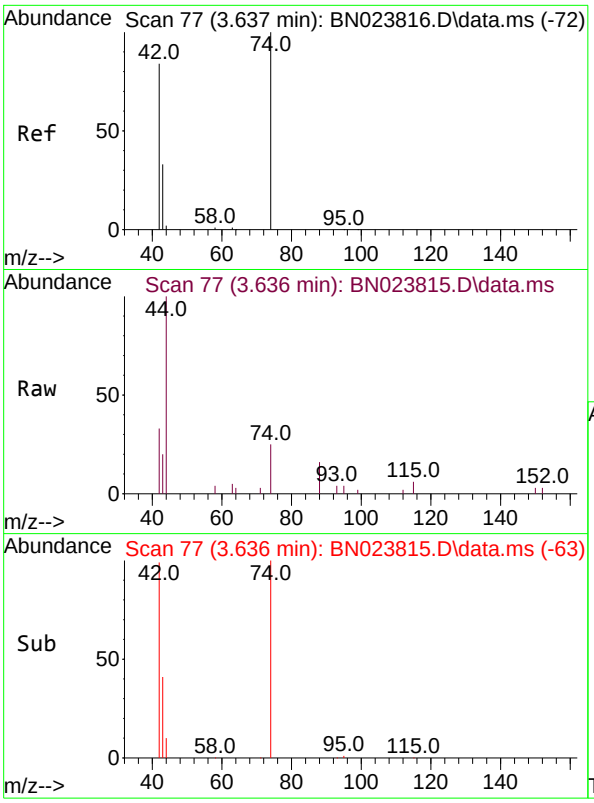


#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion: 88 Resp: 1051

Ion	Ratio	Lower	Upper
88	100		
43	32.2	24.5	36.7
58	71.7	56.9	85.3



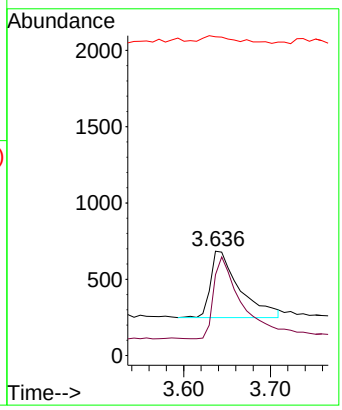


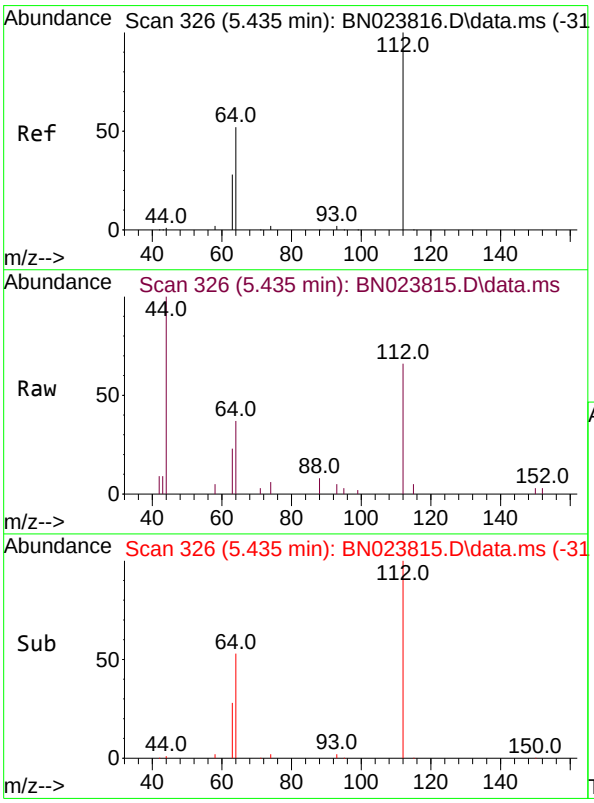
#3
n-Nitrosodimethylamine
Concen: 0.184 ng
RT: 3.636 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1012

Ion	Ratio	Lower	Upper
42	100		
74	117.2	91.8	137.8
44	12.3	6.9	10.3#

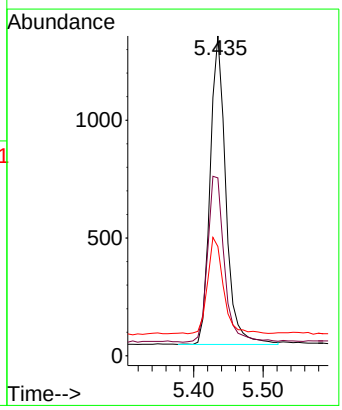


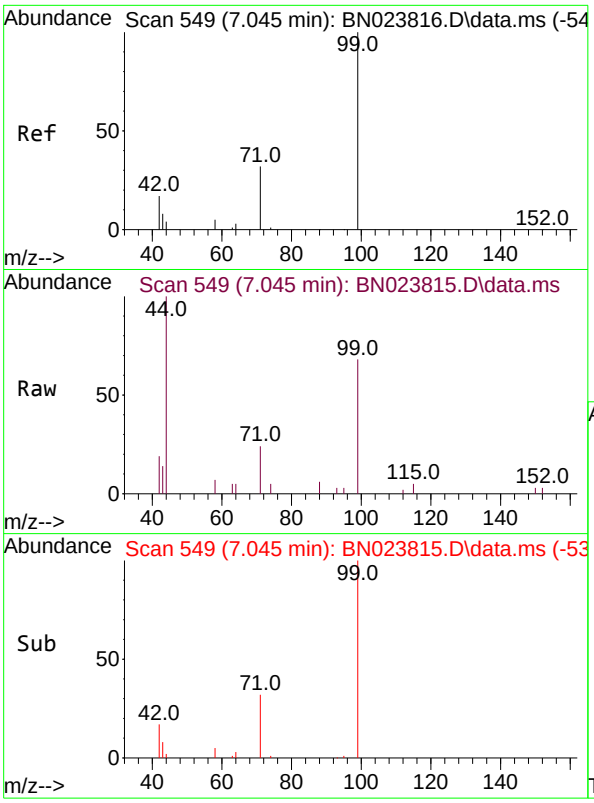


#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.435 min Scan# 326
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:112 Resp: 2063

Ion	Ratio	Lower	Upper
112	100		
64	57.4	45.7	68.5
63	31.3	24.6	37.0



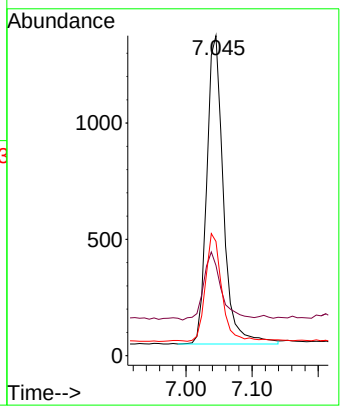


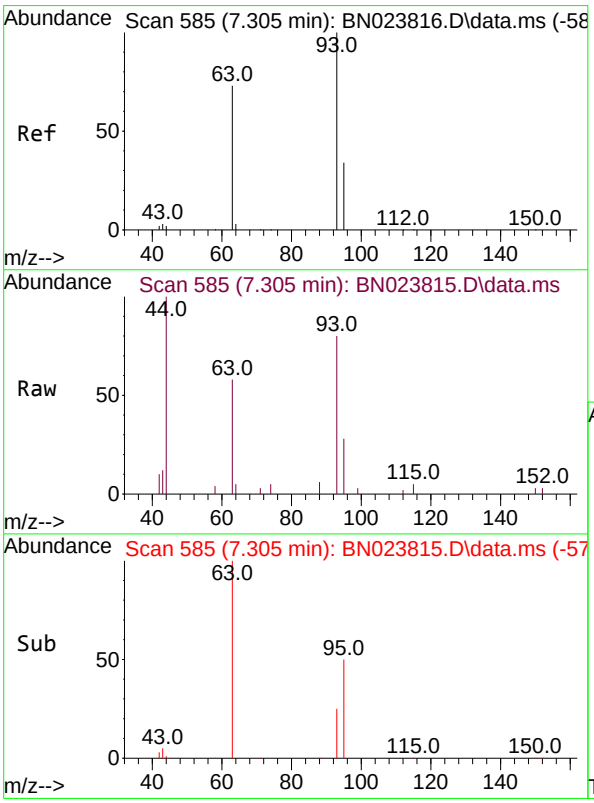
#5
Phenol-d6
Concen: 0.192 ng
RT: 7.045 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 2317

Ion	Ratio	Lower	Upper
99	100		
42	23.7	17.9	26.9
71	34.7	27.7	41.5

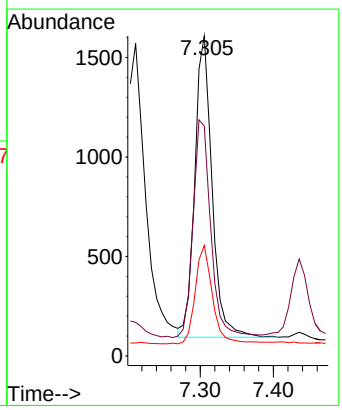


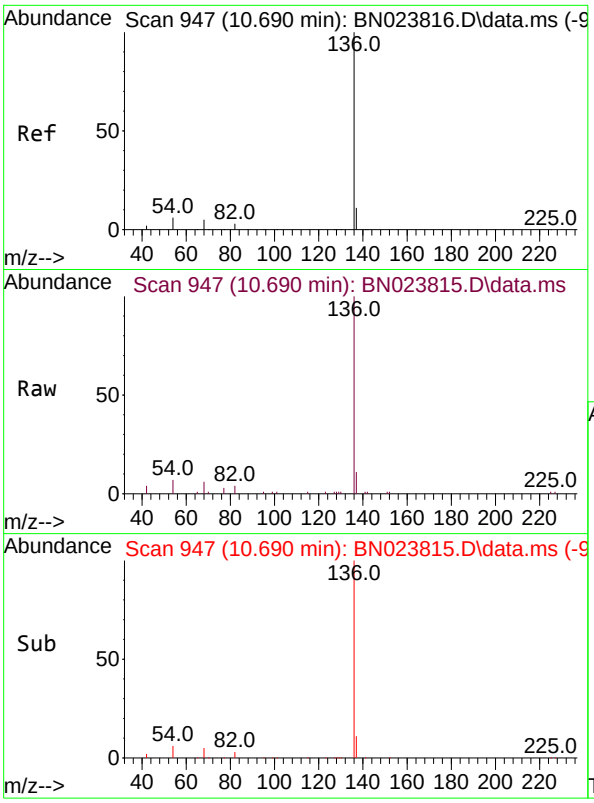


#6
bis(2-Chloroethyl)ether
Concen: 0.203 ng
RT: 7.305 min Scan# 585
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion: 93 Resp: 2481

Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.2	90.4
95	32.8	25.9	38.9



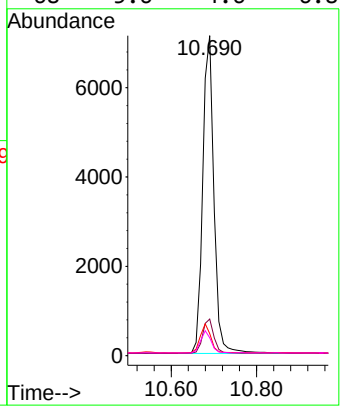


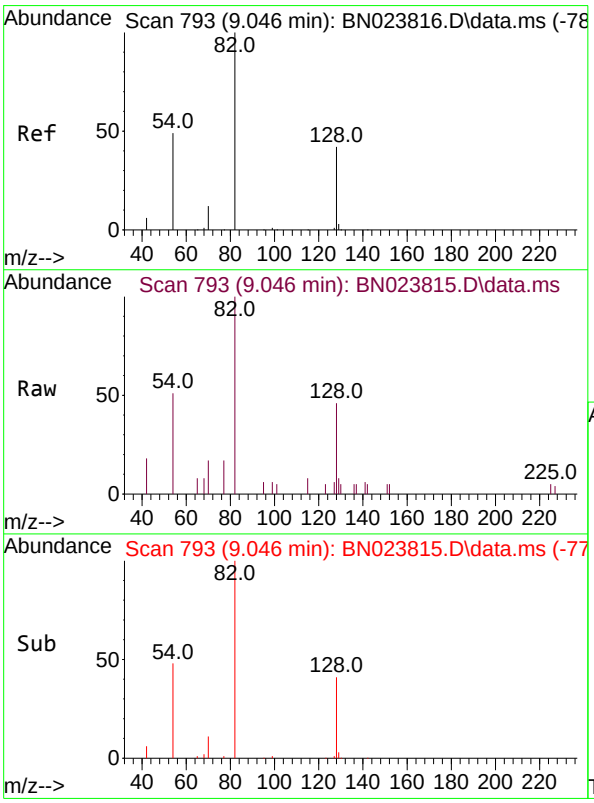
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 12914

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	6.9	5.4	8.2
68	5.6	4.6	6.8

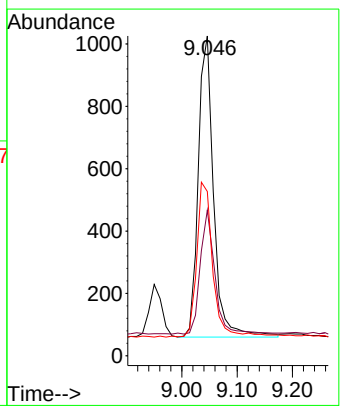


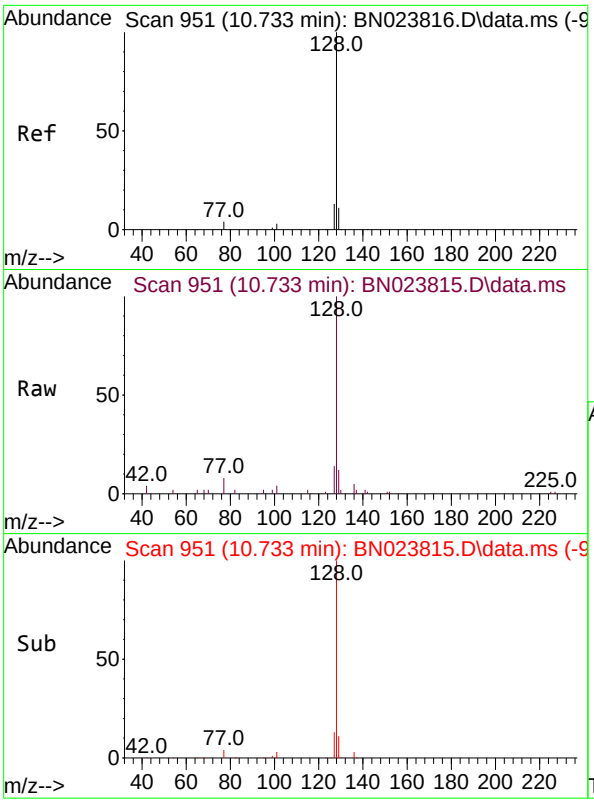


#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 9.046 min Scan# 793
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion: 82 Resp: 1864

Ion	Ratio	Lower	Upper
82	100		
128	45.5	35.6	53.4
54	51.4	40.2	60.4



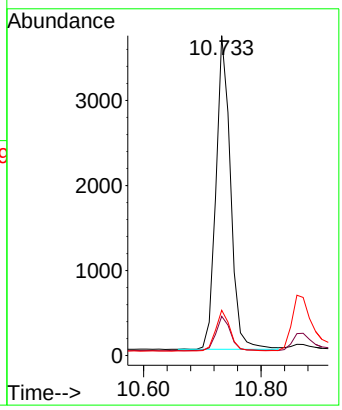


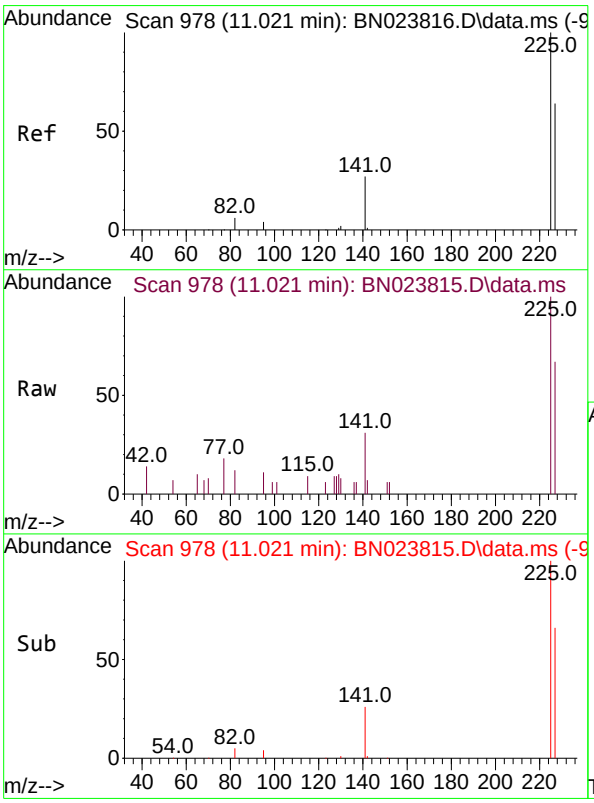
#9
Naphthalene
Concen: 0.197 ng
RT: 10.733 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 6368

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.2	13.8
127	14.2	11.0	16.6

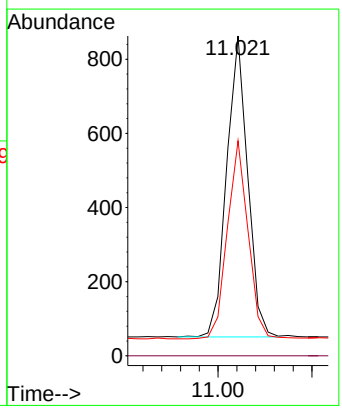


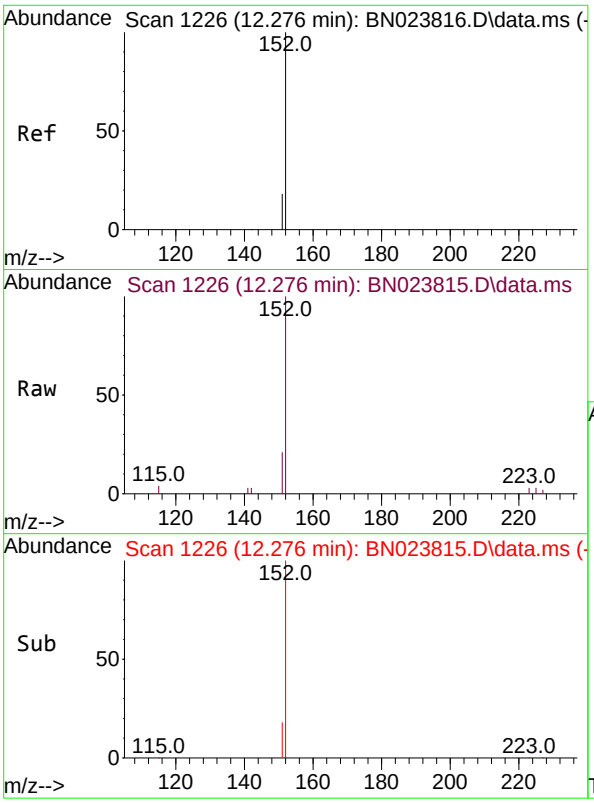


#10
Hexachlorobutadiene
Concen: 0.194 ng
RT: 11.021 min Scan# 978
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:225 Resp: 1263

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	50.8	76.2



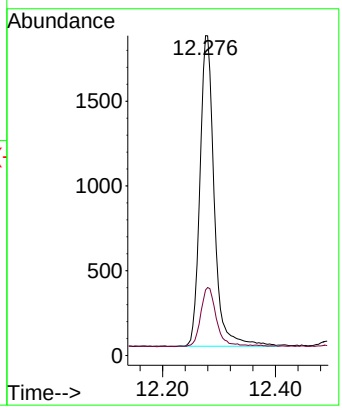


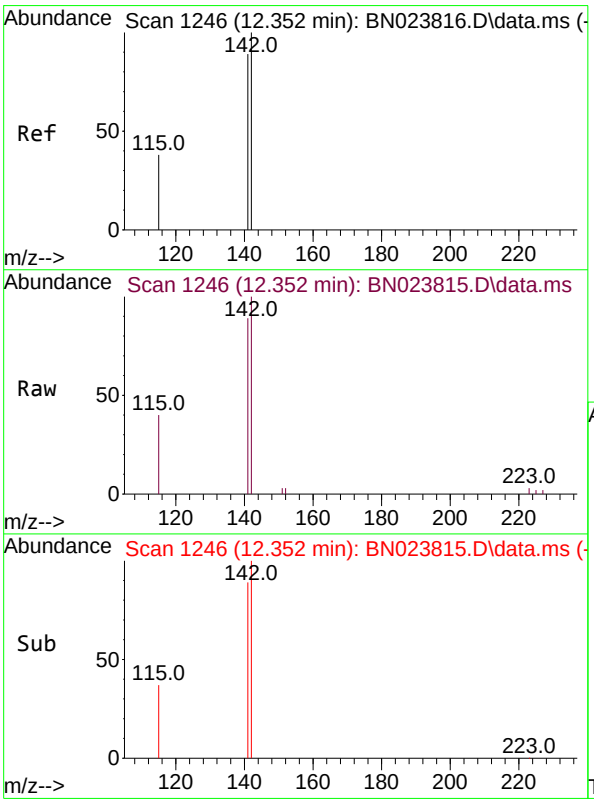
#11
2-Methylnaphthalene-d10
Concen: 0.189 ng
RT: 12.276 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 3226

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.8	25.2

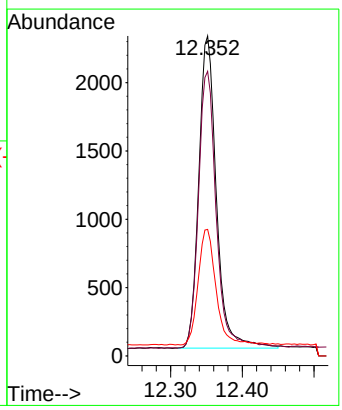


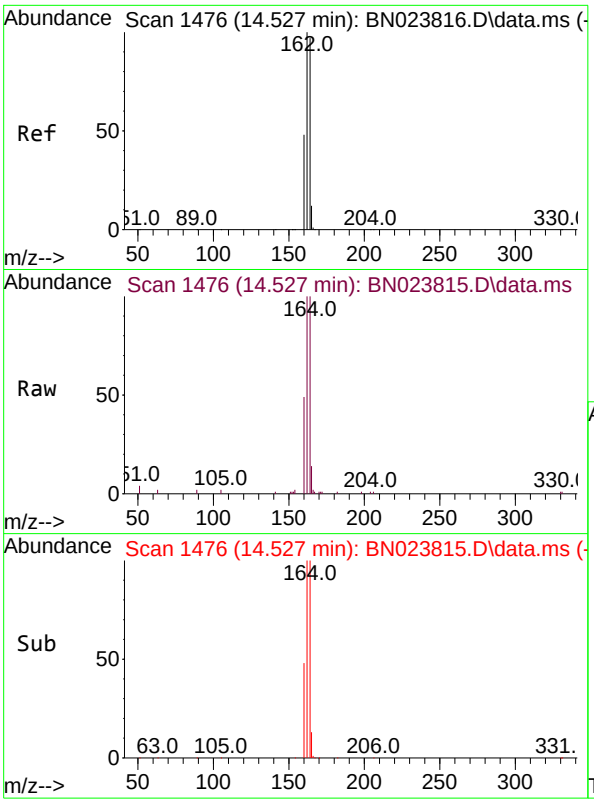


#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.352 min Scan# 1246
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:142 Resp: 3892

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.0	106.6
115	39.5	31.0	46.4



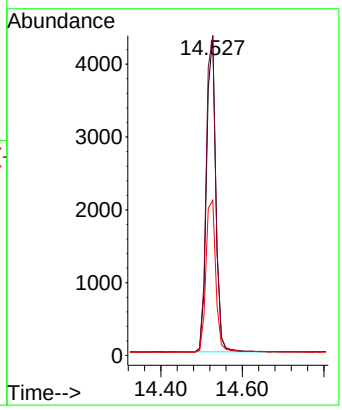


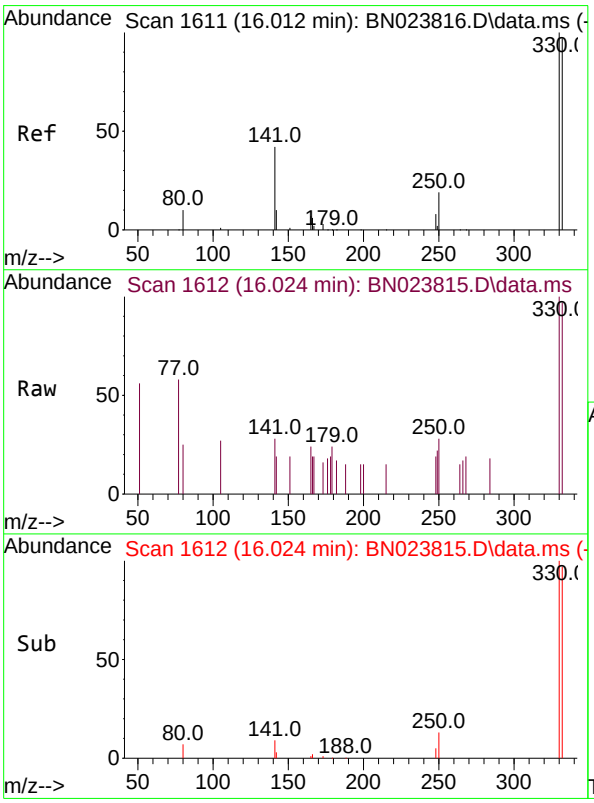
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.527 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 6777

Ion	Ratio	Lower	Upper
164	100		
162	100.0	82.5	123.7
160	48.5	39.9	59.9

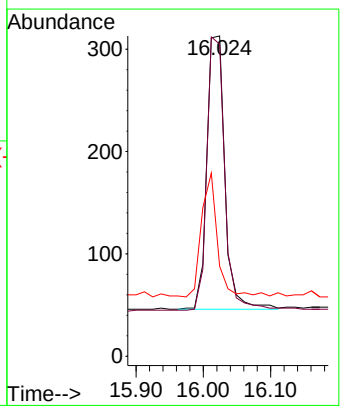


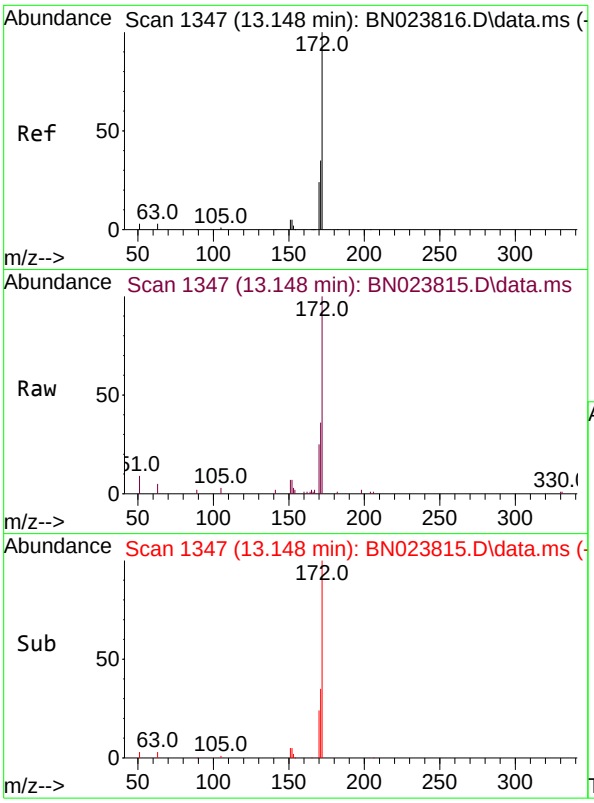


#14
2,4,6-Tribromophenol
Concen: 0.167 ng
RT: 16.024 min Scan# 1612
Delta R.T. 0.012 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:330 Resp: 495

Ion	Ratio	Lower	Upper
330	100		
332	98.4	78.8	118.2
141	38.6	33.2	49.8



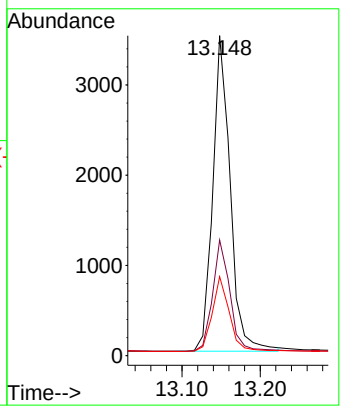


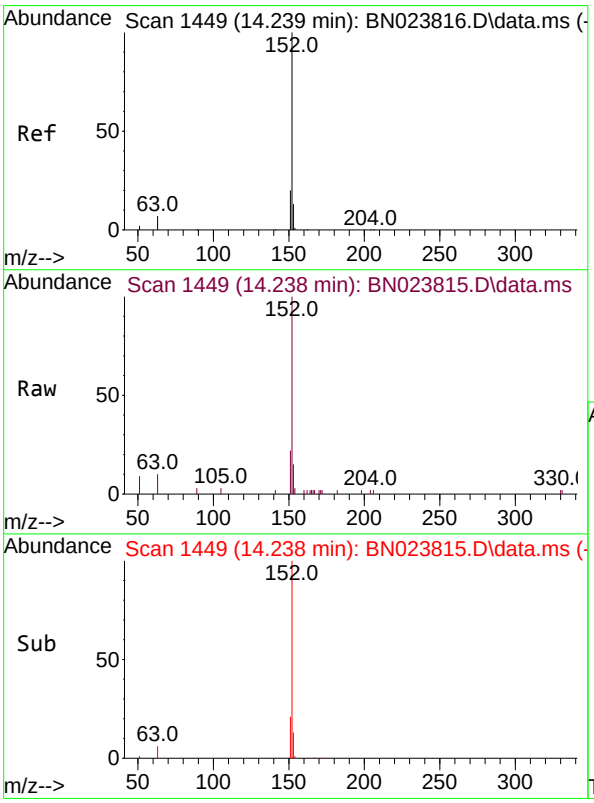
#15
2-Fluorobiphenyl
Concen: 0.201 ng
RT: 13.148 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 5430

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.4	42.6
170	24.7	19.4	29.2

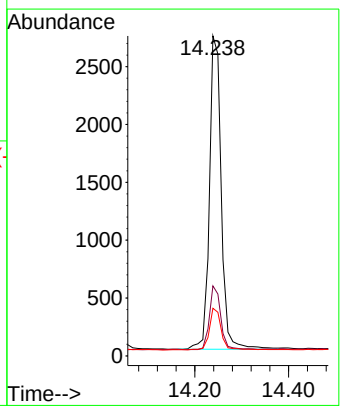


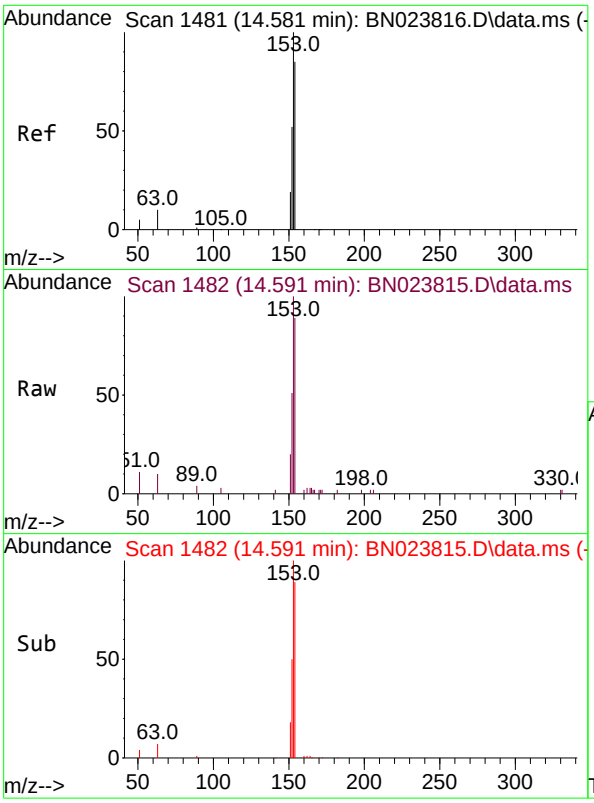


#16
Acenaphthylene
Concen: 0.176 ng
RT: 14.238 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:152 Resp: 4738

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.6
153	13.7	10.2	15.4



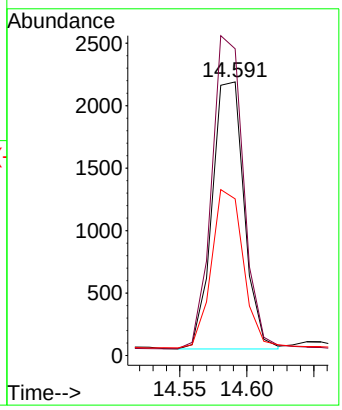


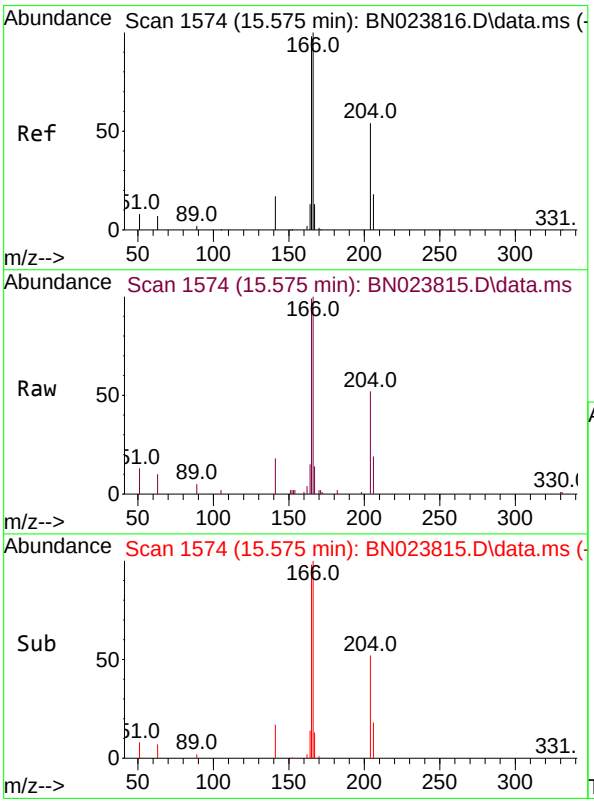
#17
Acenaphthene
Concen: 0.197 ng
RT: 14.591 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 3549

Ion	Ratio	Lower	Upper
154	100		
153	117.8	92.6	139.0
152	60.4	48.3	72.5

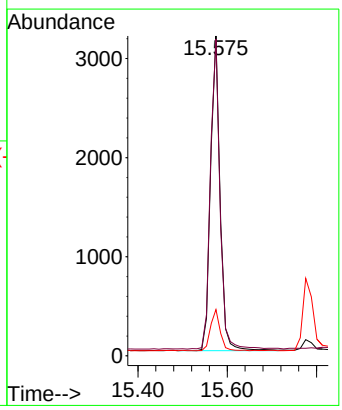


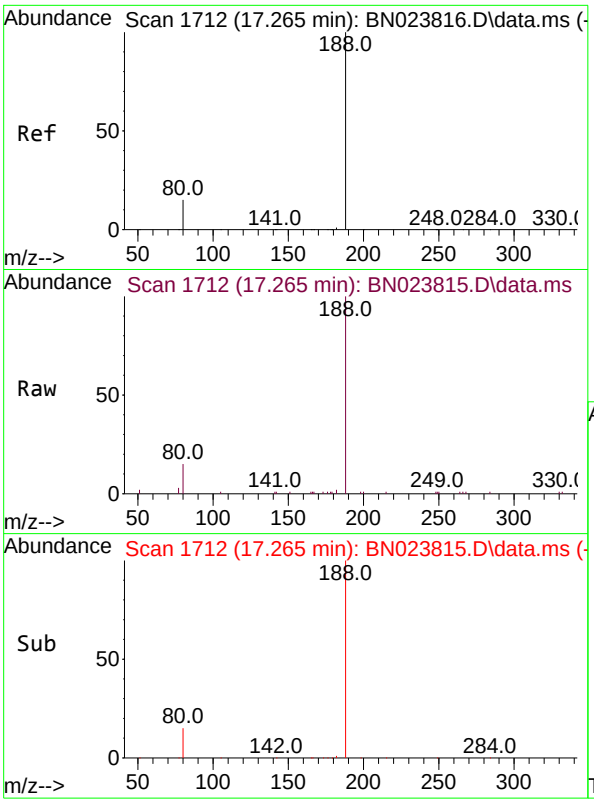


#18
Fluorene
Concen: 0.192 ng
RT: 15.575 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:166 Resp: 4702

Ion	Ratio	Lower	Upper
166	100		
165	100.0	80.4	120.6
167	13.4	10.7	16.1



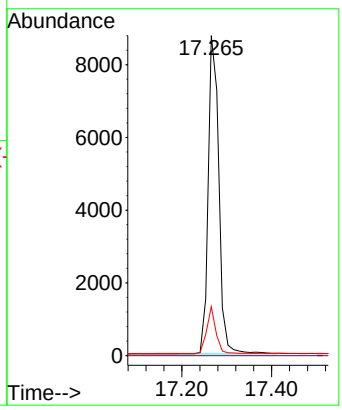


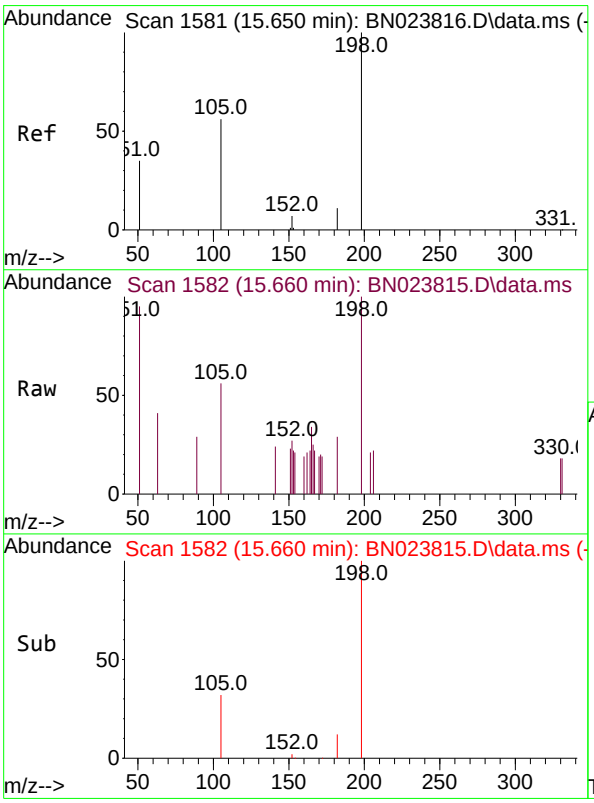
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 14537

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	12.6	18.8

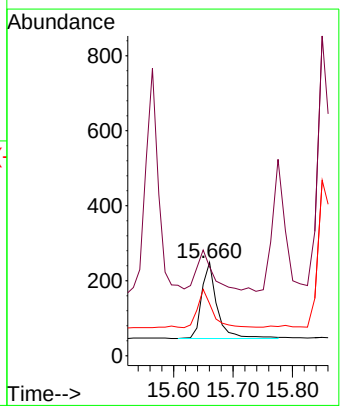


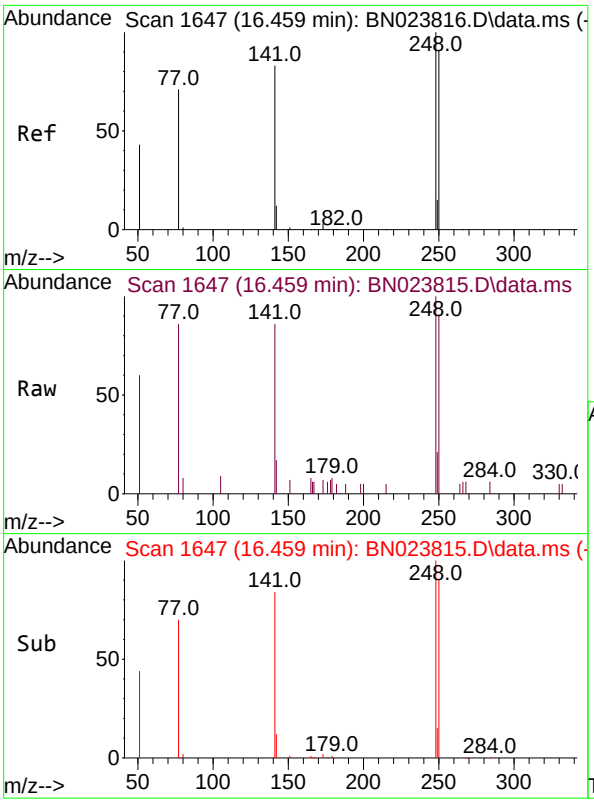


#20
4,6-Dinitro-2-methylphenol
Concen: 0.182 ng
RT: 15.660 min Scan# 1582
Delta R.T. 0.010 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:198 Resp: 381

Ion	Ratio	Lower	Upper
198	100		
51	95.2	65.1	97.7
105	55.8	53.1	79.7



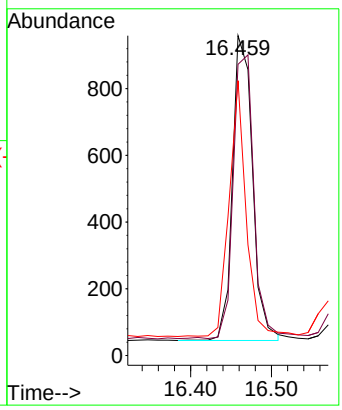


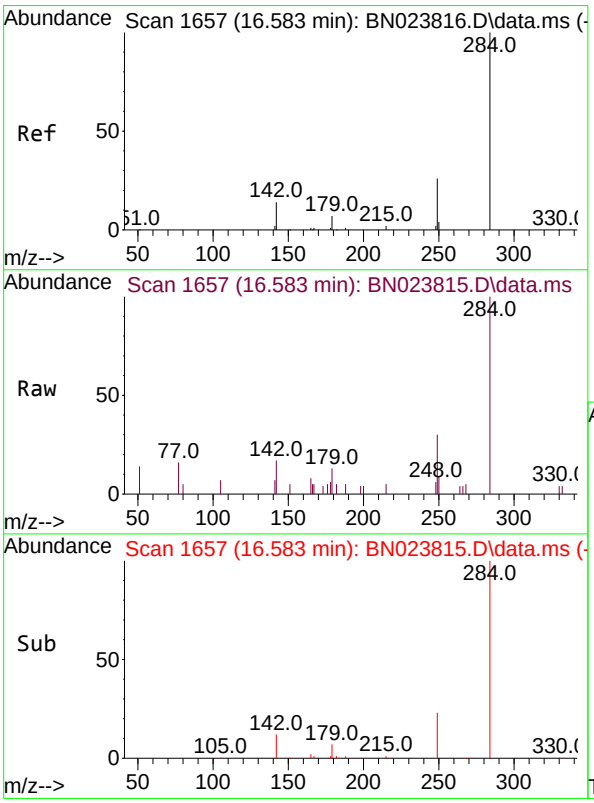
#21
4-Bromophenyl-phenylether
Concen: 0.194 ng
RT: 16.459 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1571

Ion	Ratio	Lower	Upper
248	100		
250	91.0	72.9	109.3
141	85.9	67.4	101.2

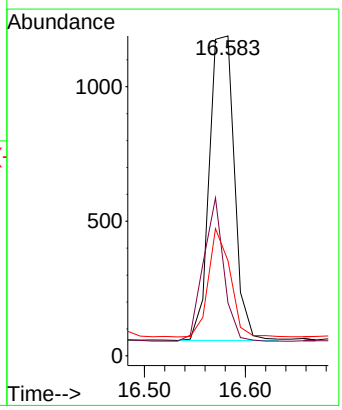


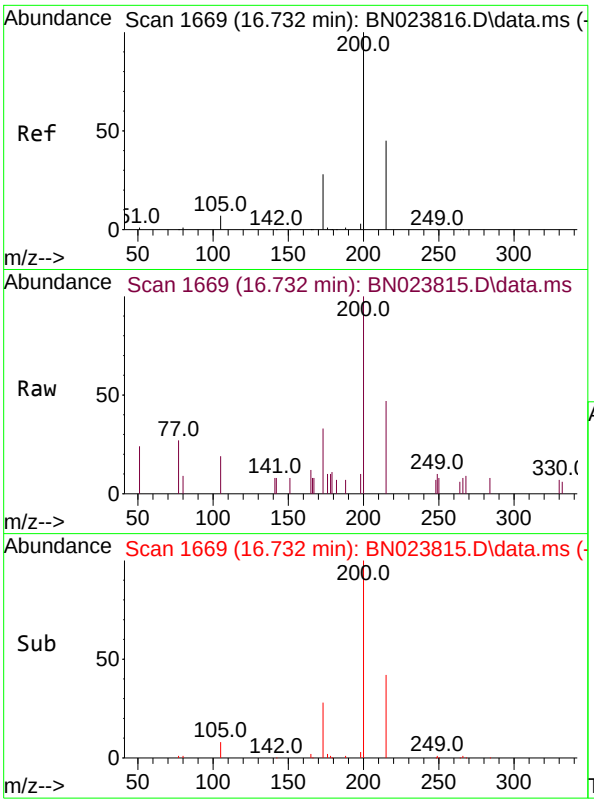


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.583 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:284 Resp: 1950

Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.2
249	30.9	24.3	36.5



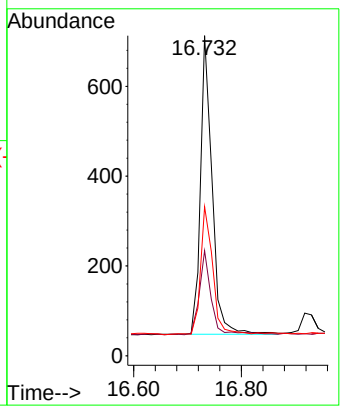


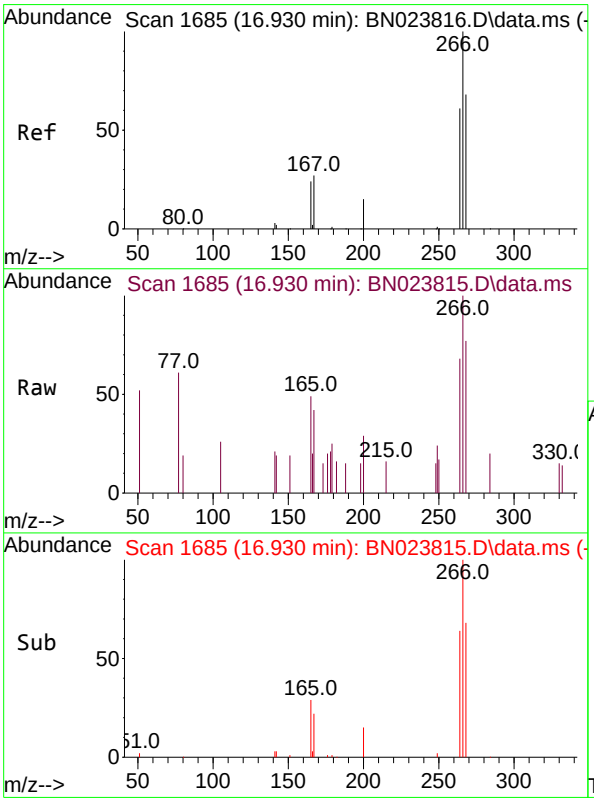
#23
Atrazine
Concen: 0.169 ng
RT: 16.732 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 992

Ion	Ratio	Lower	Upper
200	100		
173	32.8	24.1	36.1
215	46.6	36.8	55.2

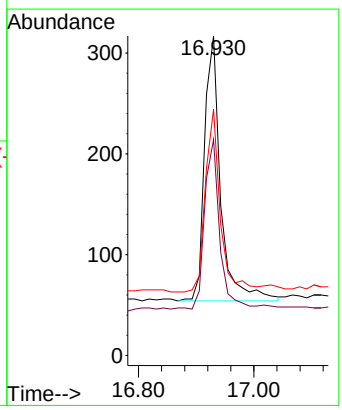


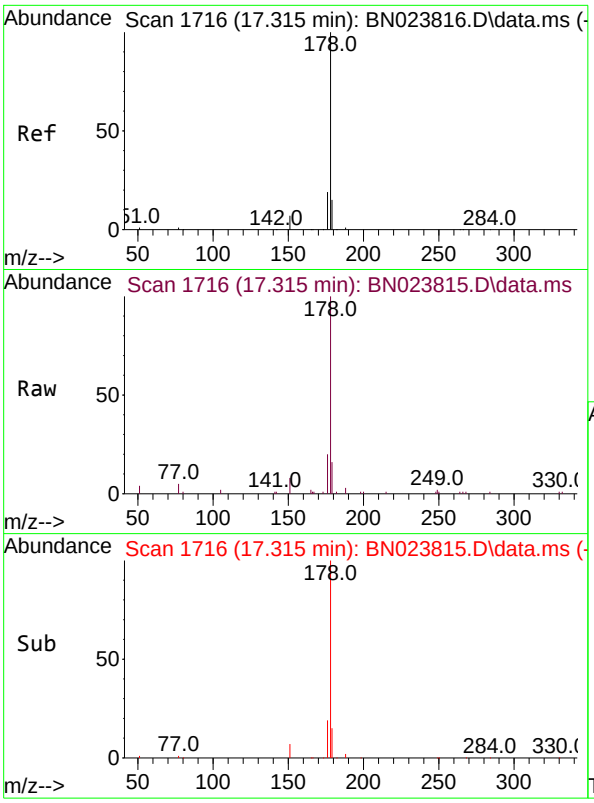


#24
Pentachlorophenol
Concen: 0.161 ng
RT: 16.930 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:266 Resp: 513

Ion	Ratio	Lower	Upper
266	100		
264	59.5	49.0	73.4
268	63.5	50.1	75.1



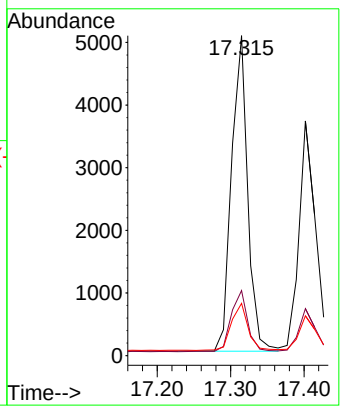


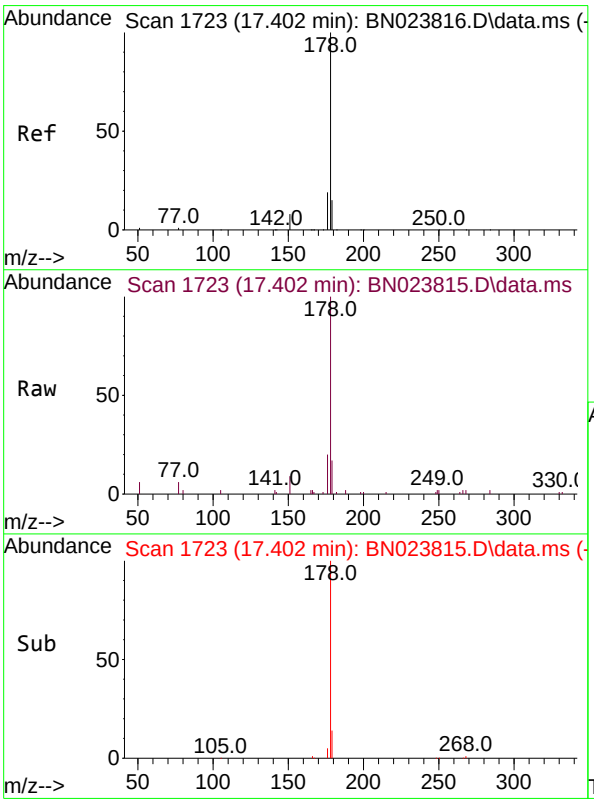
#25
Phenanthrene
Concen: 0.192 ng
RT: 17.315 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 7751

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.5	23.3
179	15.3	12.2	18.4

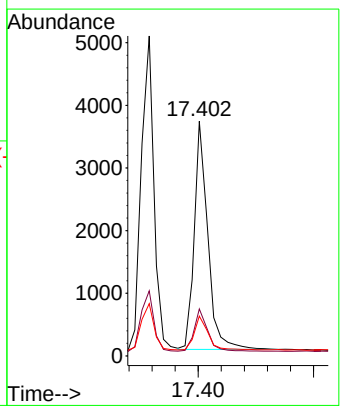


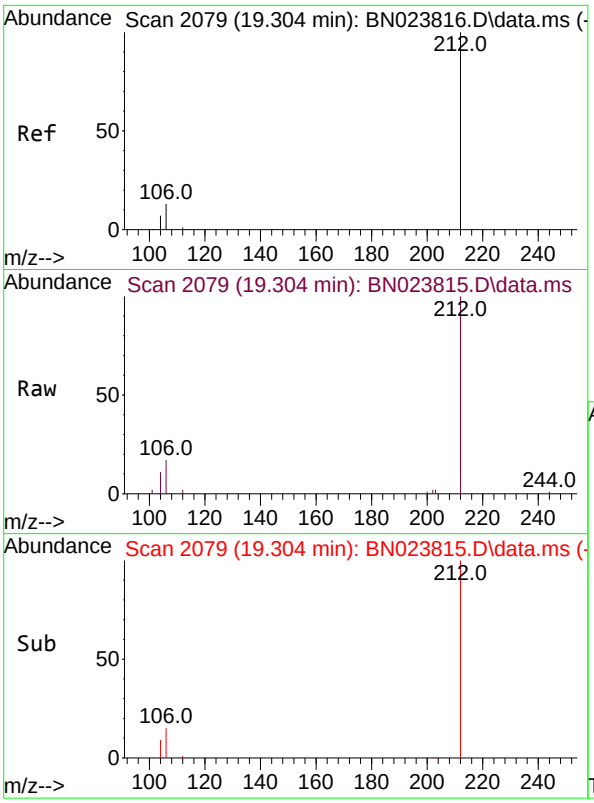


#26
Anthracene
Concen: 0.181 ng
RT: 17.402 min Scan# 1723
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:178 Resp: 5918

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.1	18.1



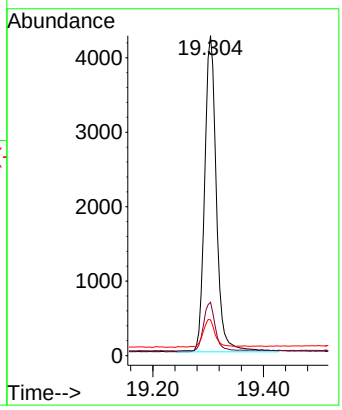


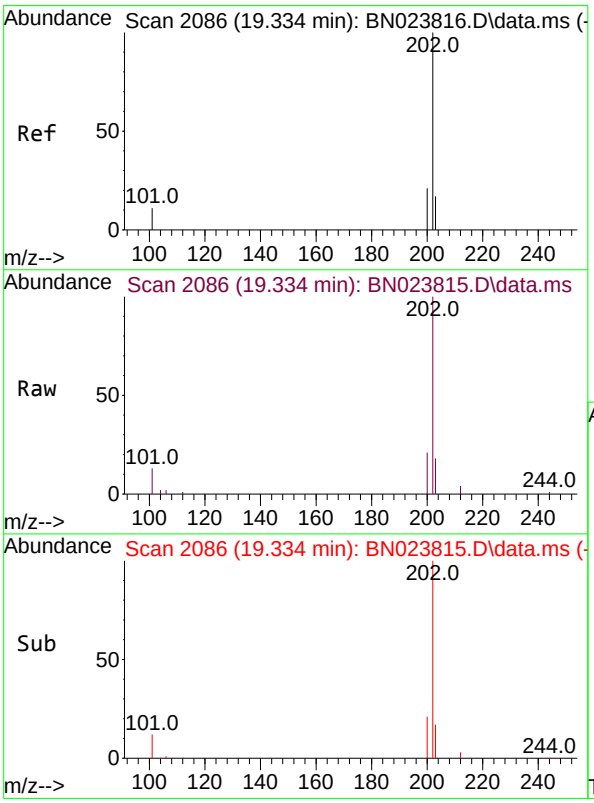
#27
Fluoranthene-d10
Concen: 0.184 ng
RT: 19.304 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 6255

Ion	Ratio	Lower	Upper
212	100		
106	15.0	10.8	16.2
104	9.0	6.2	9.4

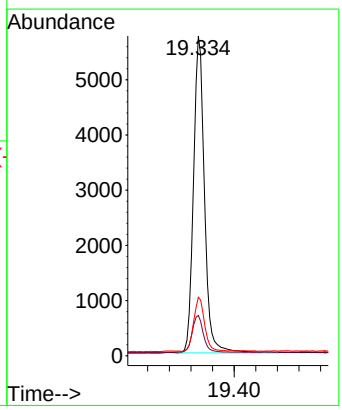


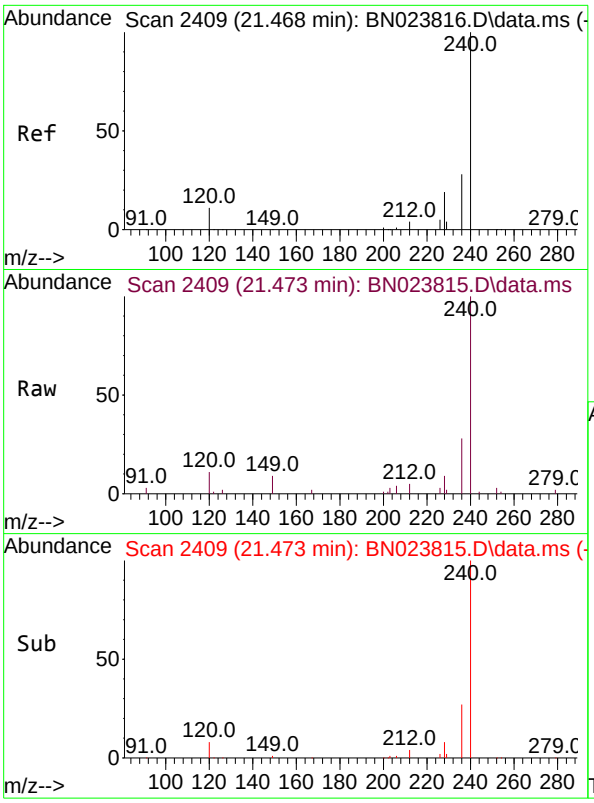


#28
Fluoranthene
Concen: 0.183 ng
RT: 19.334 min Scan# 2086
Delta R.T. -0.000 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:202 Resp: 8091

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.1	13.7
203	16.8	13.7	20.5



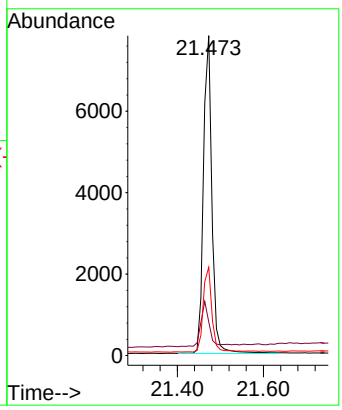


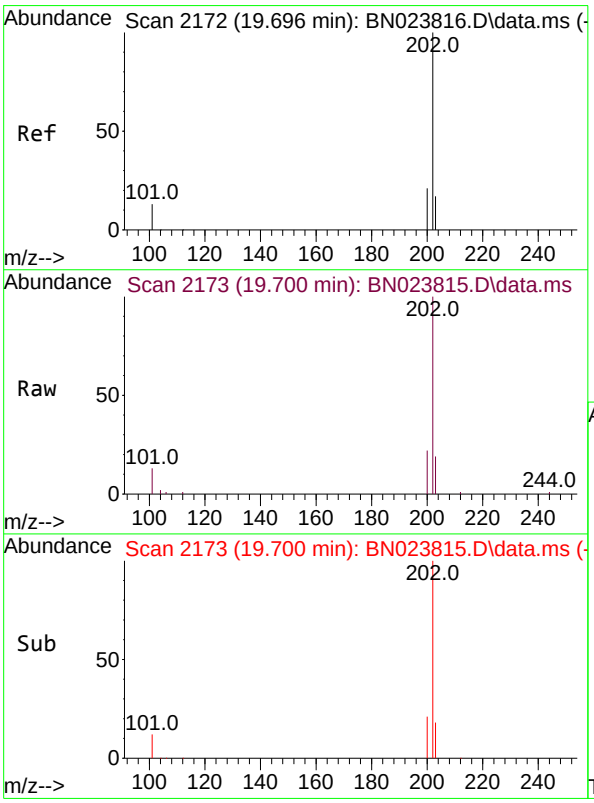
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.473 min Scan# 24
Delta R.T. 0.005 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 10598

Ion	Ratio	Lower	Upper
240	100		
120	10.5	10.6	15.8#
236	27.6	22.5	33.7

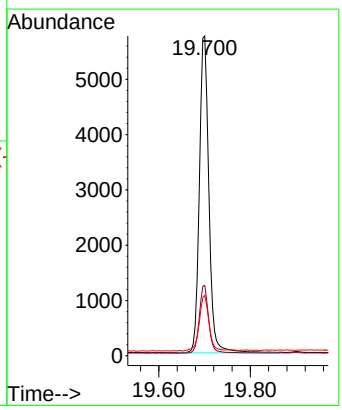


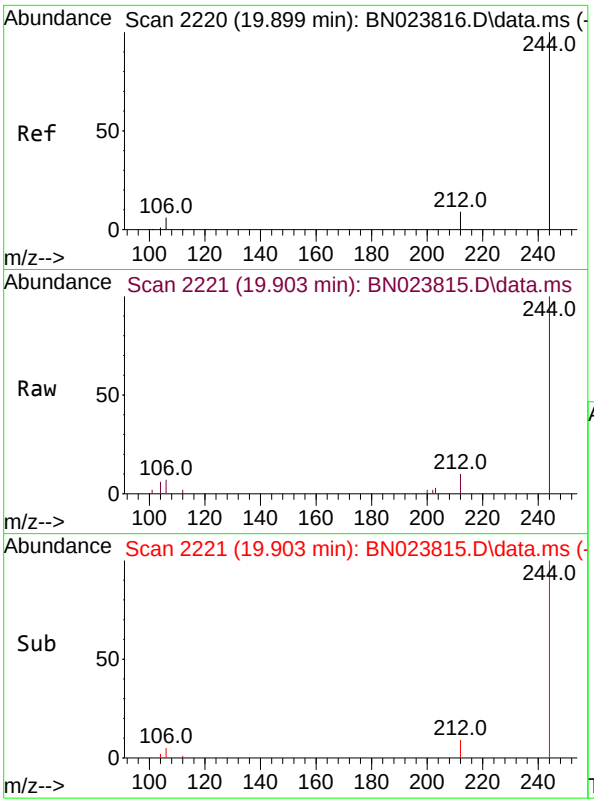


#30
Pyrene
Concen: 0.228 ng
RT: 19.700 min Scan# 2173
Delta R.T. 0.004 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:202 Resp: 8212

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	18.0	14.1	21.1



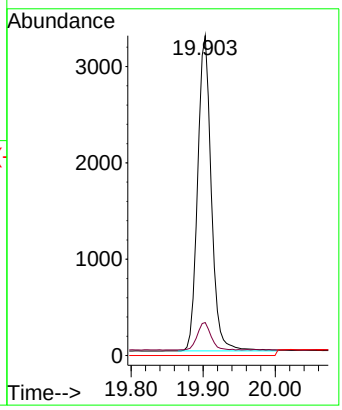


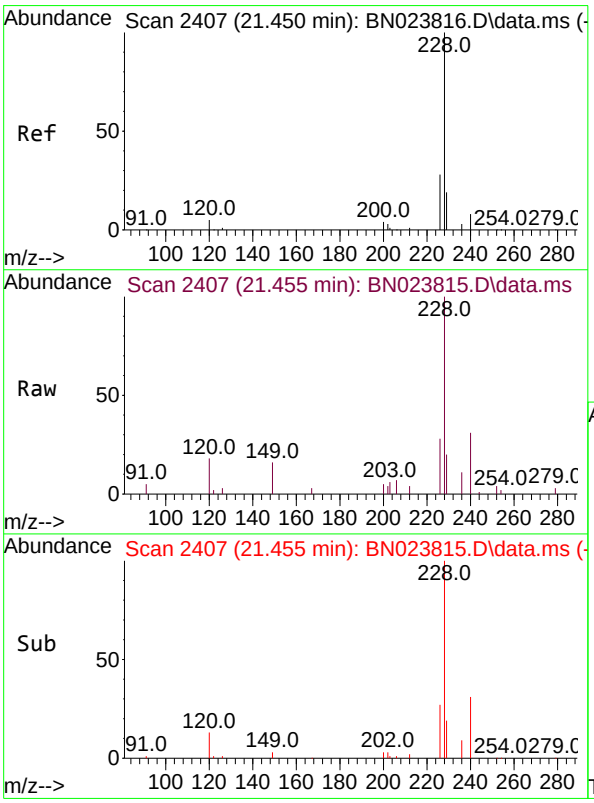
#31
Terphenyl-d14
Concen: 0.214 ng
RT: 19.903 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 4303

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.4	11.0
122	0.0	0.0	0.0

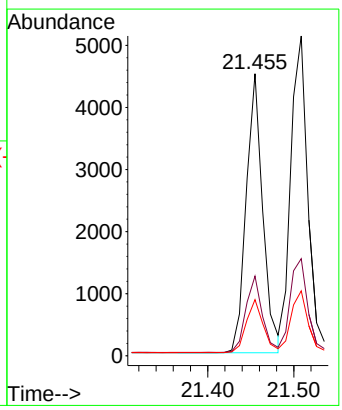


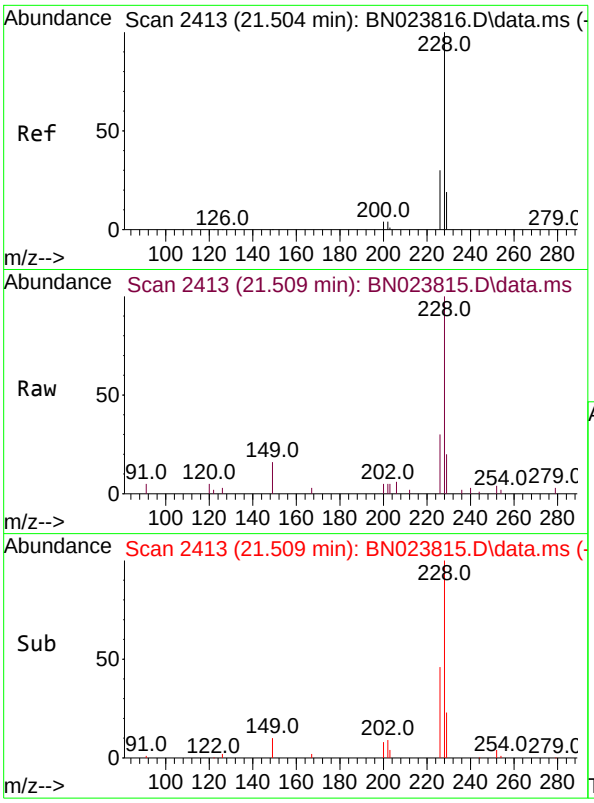


#32
Benzo(a)anthracene
Concen: 0.186 ng
RT: 21.455 min Scan# 2407
Delta R.T. 0.005 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:228 Resp: 6005

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	19.9	15.8	23.6



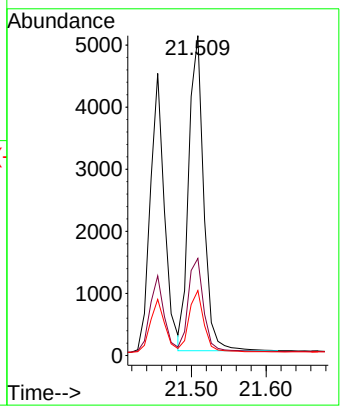


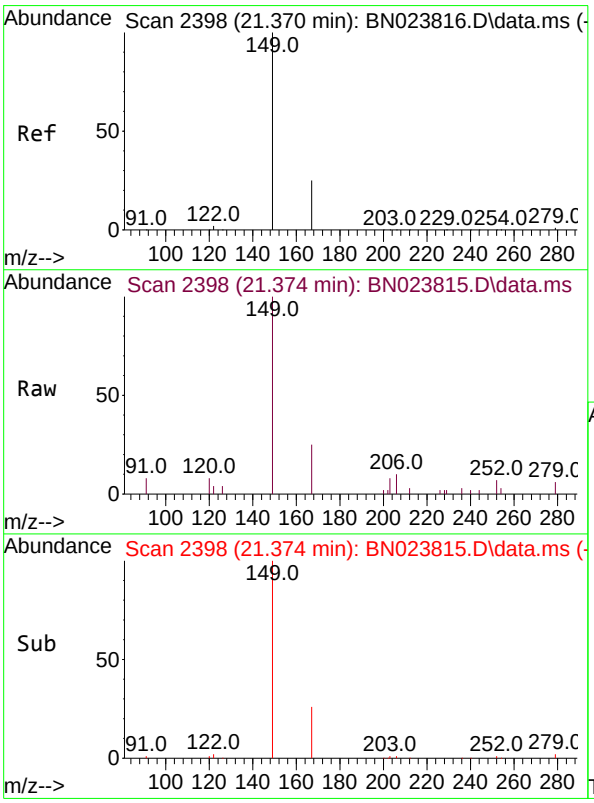
#33
Chrysene
Concen: 0.197 ng
RT: 21.509 min Scan# 24
Delta R.T. 0.005 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7024

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.2	36.4
229	20.3	15.4	23.2

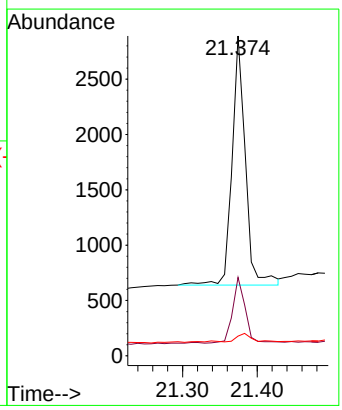


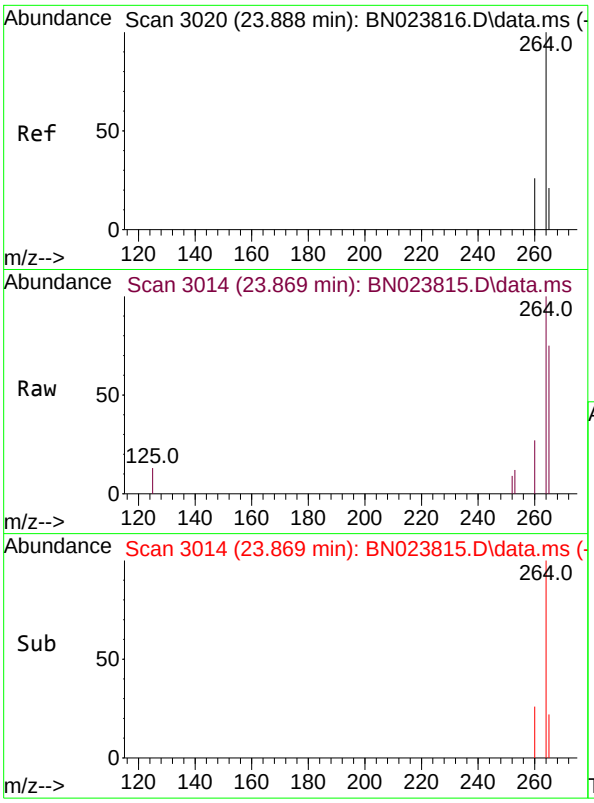


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.191 ng
RT: 21.374 min Scan# 2398
Delta R.T. 0.005 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:149 Resp: 2798

Ion	Ratio	Lower	Upper
149	100		
167	25.4	20.4	30.6
279	3.8	2.2	3.4#



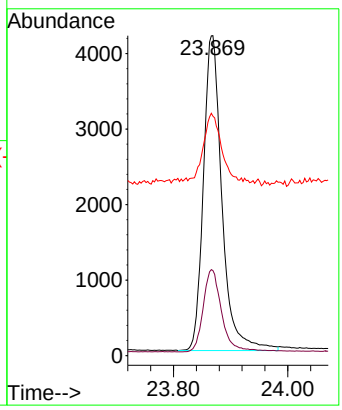


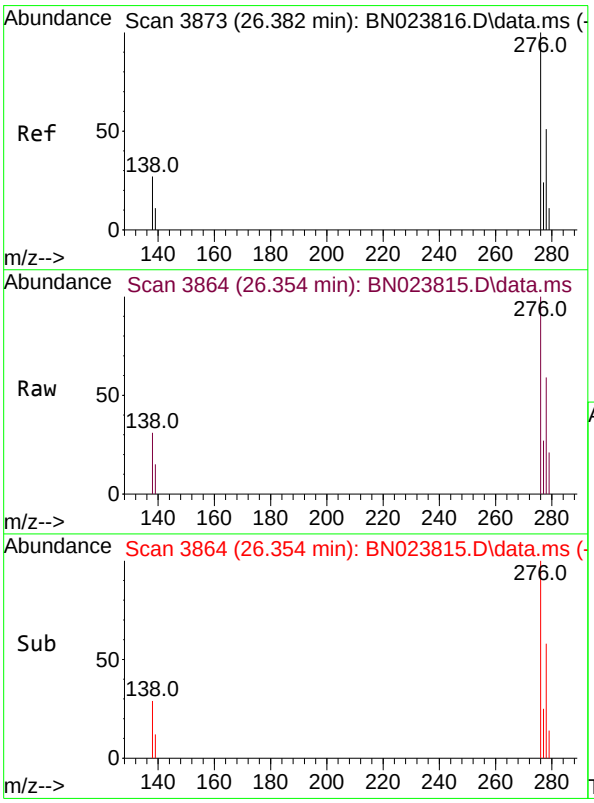
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.869 min Scan# 3
Delta R.T. -0.019 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 9407

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.5	32.3
265	74.8	44.5	66.7#

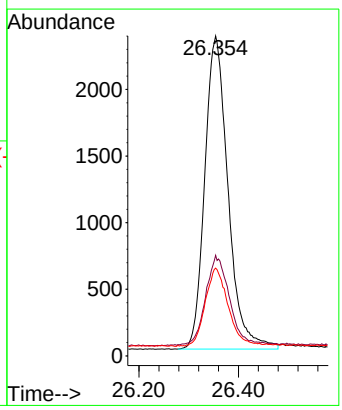


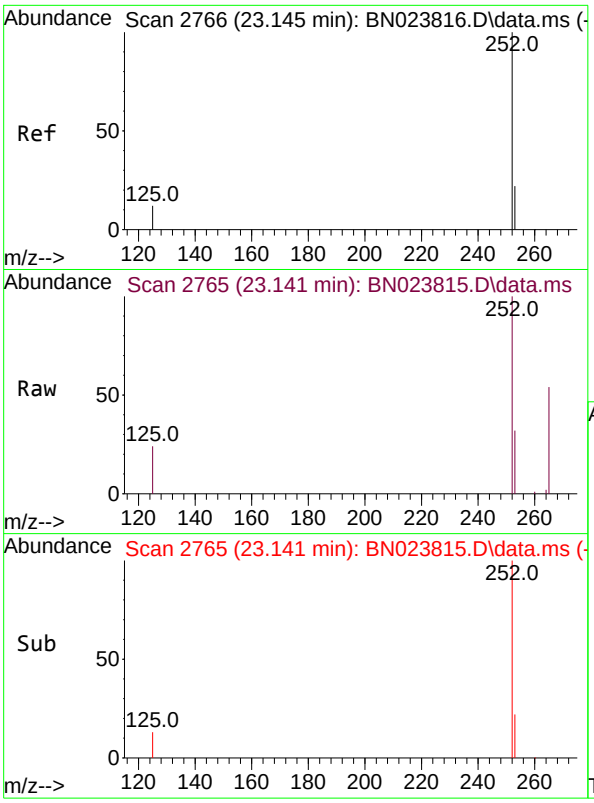


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.196 ng
RT: 26.354 min Scan# 3864
Delta R.T. -0.028 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:276 Resp: 7649

Ion	Ratio	Lower	Upper
276	100		
138	29.3	23.2	34.8
277	24.4	19.8	29.8



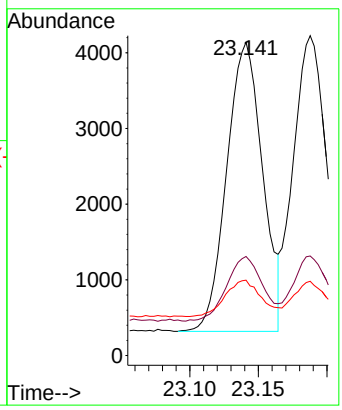


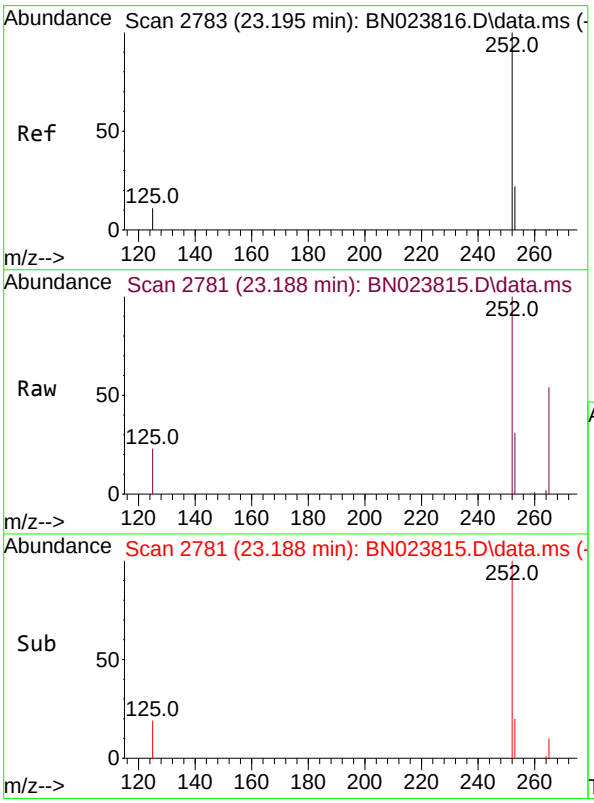
#37
Benzo(b)fluoranthene
Concen: 0.196 ng
RT: 23.141 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6941

Ion	Ratio	Lower	Upper
252	100		
253	31.7	20.2	30.4#
125	24.1	12.7	19.1#

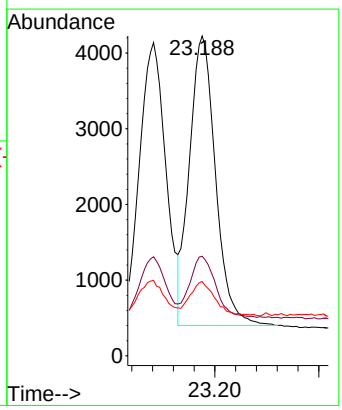


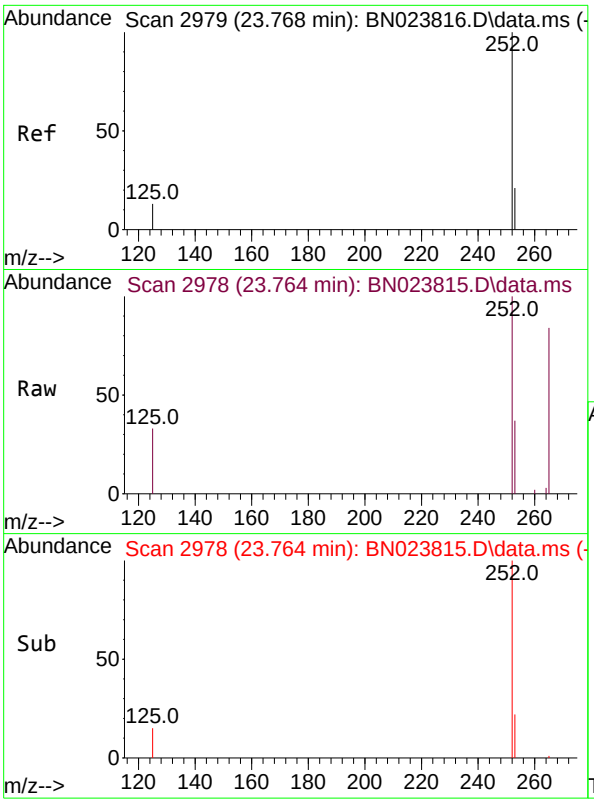


#38
Benzo(k)fluoranthene
Concen: 0.191 ng
RT: 23.188 min Scan# 2781
Delta R.T. -0.007 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:252 Resp: 6675

Ion	Ratio	Lower	Upper
252	100		
253	31.1	20.5	30.7#
125	23.2	12.6	18.8#



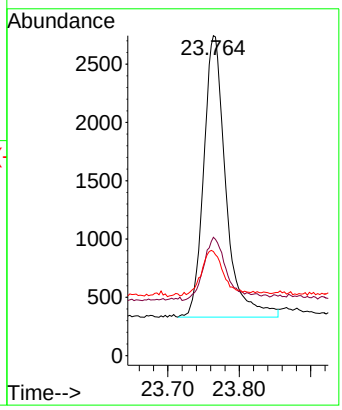


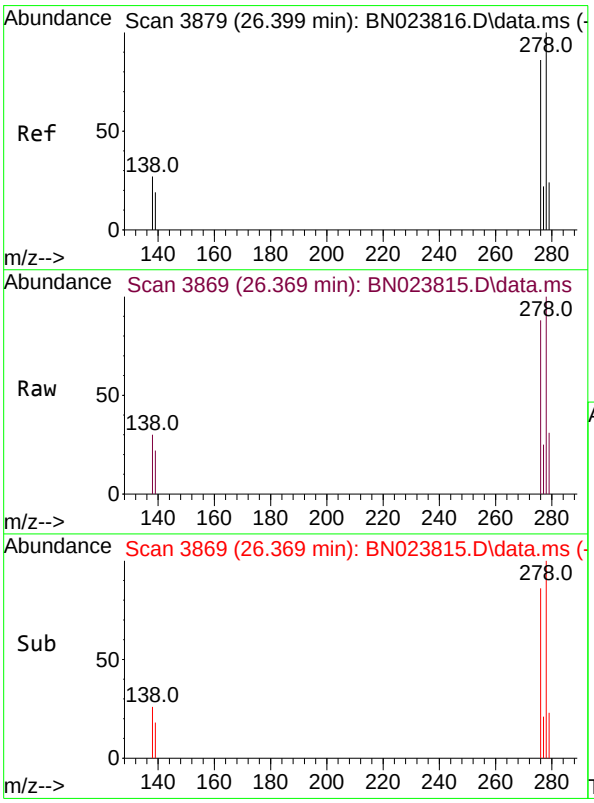
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 23.764 min Scan# 29
Delta R.T. -0.004 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 5177

Ion	Ratio	Lower	Upper
252	100		
253	37.0	22.0	33.0#
125	32.5	16.2	24.4#

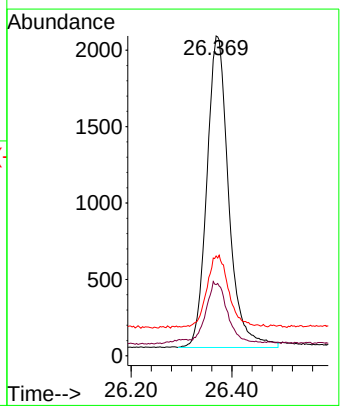


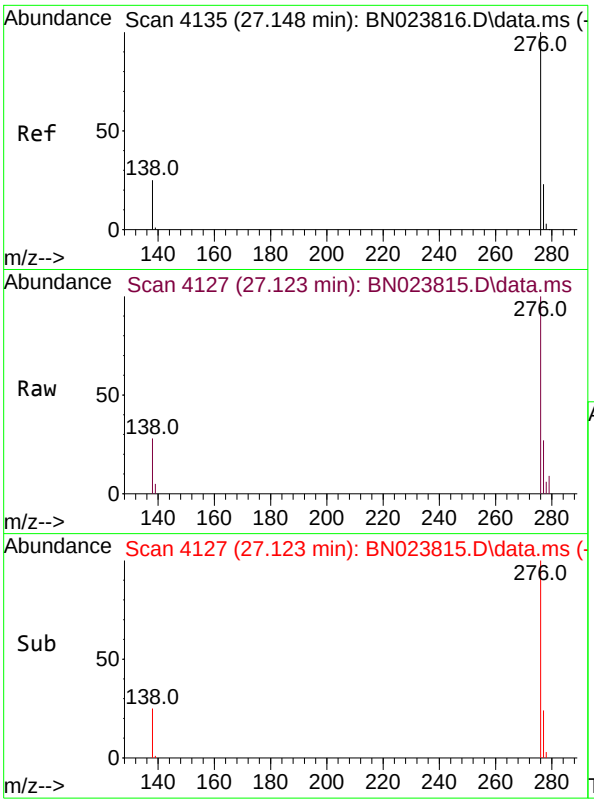


#40
Dibenzo(a,h)anthracene
Concen: 0.194 ng
RT: 26.369 min Scan# 3869
Delta R.T. -0.031 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Tgt Ion:278 Resp: 6127

Ion	Ratio	Lower	Upper
278	100		
139	22.3	16.5	24.7
279	31.2	21.7	32.5





#41
Benzo(g,h,i)perylene
Concen: 0.201 ng
RT: 27.123 min Scan# 41
Delta R.T. -0.025 min
Lab File: BN023815.D
Acq: 26 Jan 2023 12:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6748

Ion	Ratio	Lower	Upper
276	100		
277	26.6	19.7	29.5
138	28.5	21.3	31.9