Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN090424\
Data File : BN033751.D
Acq On : 04 Sep 2024 14:06
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 04 18:04:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 04 18:03:07 2024
Response via : Initial Calibration

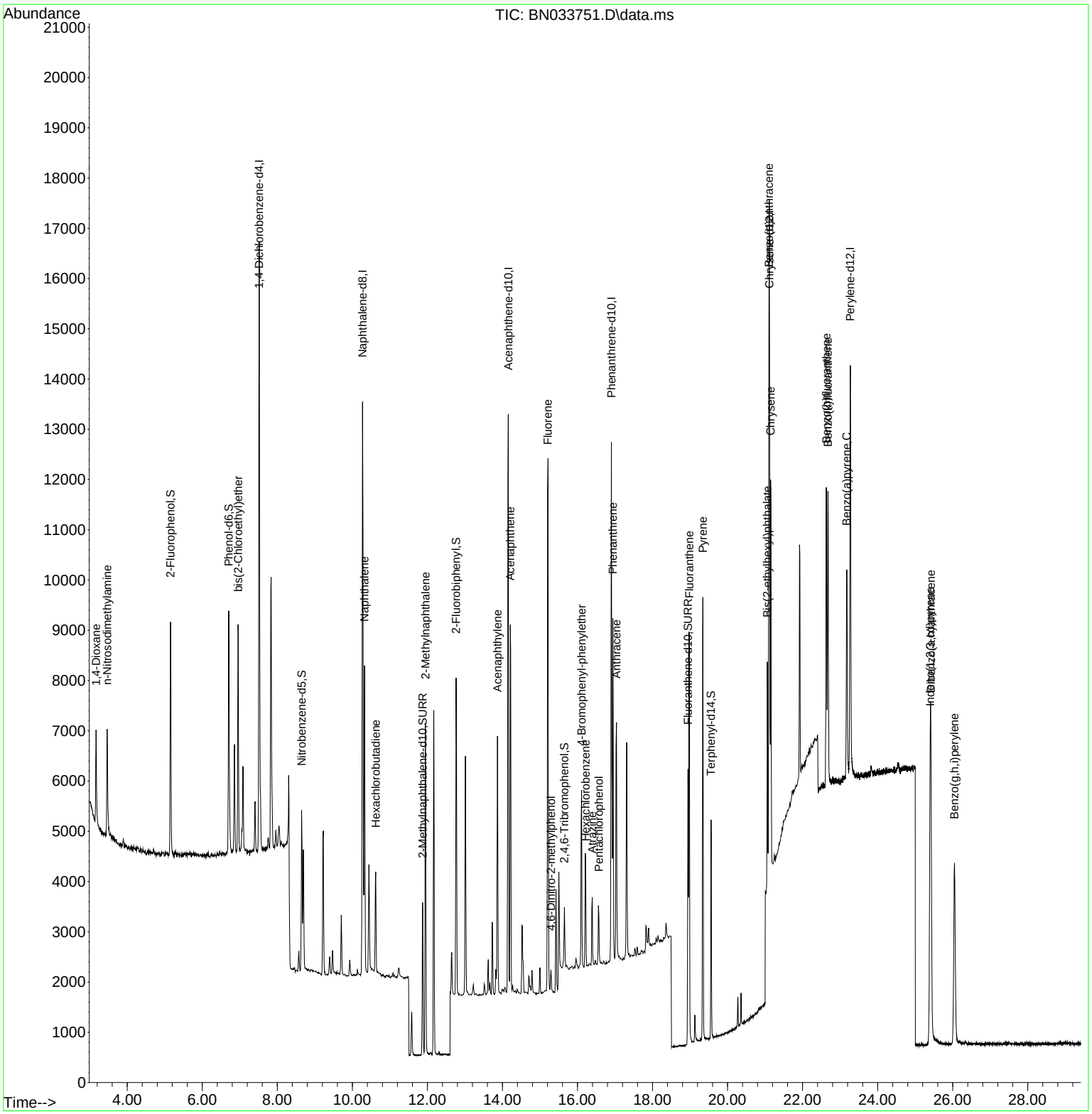
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.516	152	5708	0.400	ng		0.00
7) Naphthalene-d8	10.272	136	14601	0.400	ng		0.00
13) Acenaphthene-d10	14.157	164	6775	0.400	ng		0.00
19) Phenanthrene-d10	16.904	188	12906	0.400	ng		0.00
29) Chrysene-d12	21.112	240	9964	0.400	ng		0.00
35) Perylene-d12	23.271	264	10451	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.154	112	3566	0.204	ng		0.00
5) Phenol-d6	6.707	99	4140	0.200	ng		0.00
8) Nitrobenzene-d5	8.649	82	2459	0.198	ng		0.00
11) 2-Methylnaphthalene-d10	11.873	152	3997	0.194	ng		0.00
14) 2,4,6-Tribromophenol	15.651	330	658	0.192	ng		0.00
15) 2-Fluorobiphenyl	12.767	172	5579	0.198	ng		0.00
27) Fluoranthene-d10	18.947	212	6098	0.192	ng		0.00
31) Terphenyl-d14	19.560	244	4106	0.193	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.168	88	1320	0.203	ng		97
3) n-Nitrosodimethylamine	3.464	42	1419	0.186	ng		96
6) bis(2-Chloroethyl)ether	6.960	93	3098	0.198	ng		100
9) Naphthalene	10.325	128	7618	0.195	ng		98
10) Hexachlorobutadiene	10.624	225	1619	0.199	ng	#	100
12) 2-Methylnaphthalene	11.949	142	4622	0.193	ng		99
16) Acenaphthylene	13.868	152	5429	0.185	ng		99
17) Acenaphthene	14.210	154	3873	0.193	ng		100
18) Fluorene	15.204	166	4720	0.191	ng		100
20) 4,6-Dinitro-2-methylph...	15.301	198	347	0.170	ng	#	81
21) 4-Bromophenyl-phenylether	16.110	248	1442	0.193	ng		99
22) Hexachlorobenzene	16.222	284	1677	0.196	ng		98
23) Atrazine	16.396	200	1129	0.189	ng		98
24) Pentachlorophenol	16.569	266	616	0.176	ng		97
25) Phenanthrene	16.942	178	6775	0.191	ng		99
26) Anthracene	17.041	178	5733	0.185	ng		99
28) Fluoranthene	18.980	202	7423	0.186	ng		99
30) Pyrene	19.342	202	7791	0.194	ng		100
32) Benzo(a)anthracene	21.104	228	6696	0.188	ng		99
33) Chrysene	21.148	228	6671	0.190	ng		99
34) Bis(2-ethylhexyl)phtha...	21.059	149	4198	0.216	ng		99
36) Indeno(1,2,3-cd)pyrene	25.399	276	8195	0.190	ng		97
37) Benzo(b)fluoranthene	22.633	252	7173	0.187	ng	#	87
38) Benzo(k)fluoranthene	22.674	252	6973	0.186	ng	#	85
39) Benzo(a)pyrene	23.177	252	5909	0.184	ng	#	84
40) Dibenzo(a,h)anthracene	25.420	278	6424	0.186	ng		94
41) Benzo(g,h,i)perylene	26.048	276	7116	0.190	ng		97

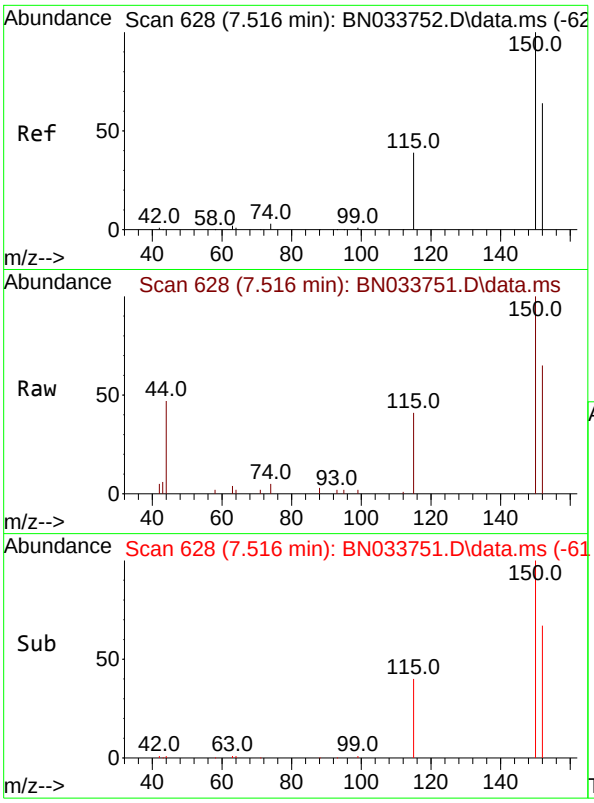
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN090424\
Data File : BN033751.D
Acq On : 04 Sep 2024 14:06
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 04 18:04:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090424.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 04 18:03:07 2024
Response via : Initial Calibration



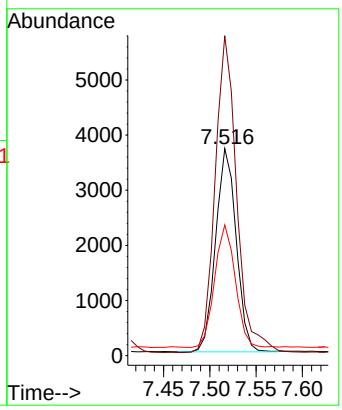


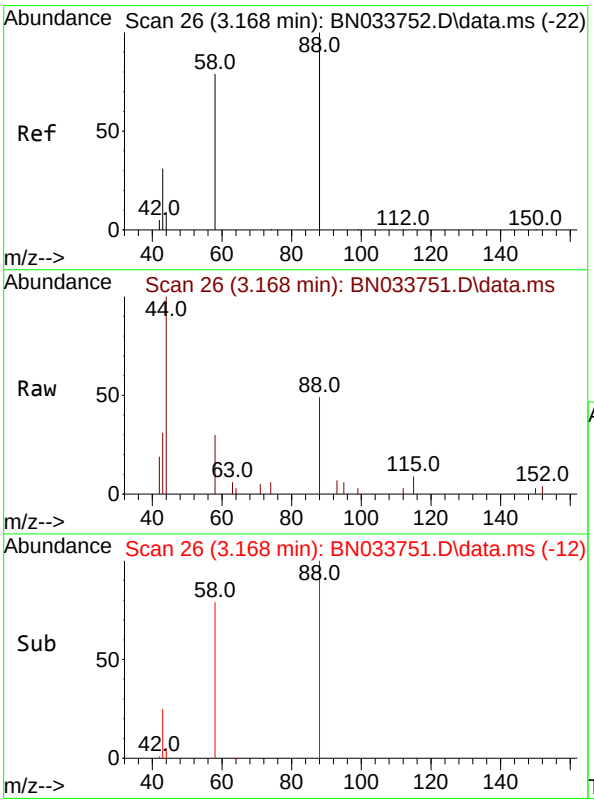
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.516 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5708

Ion	Ratio	Lower	Upper
152	100		
150	154.6	123.3	184.9
115	63.2	51.0	76.4

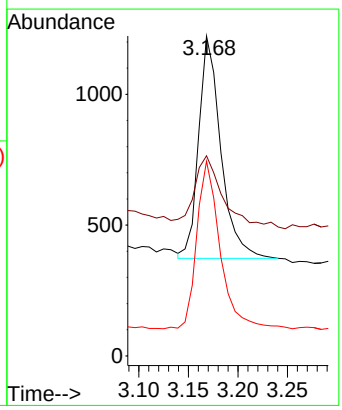


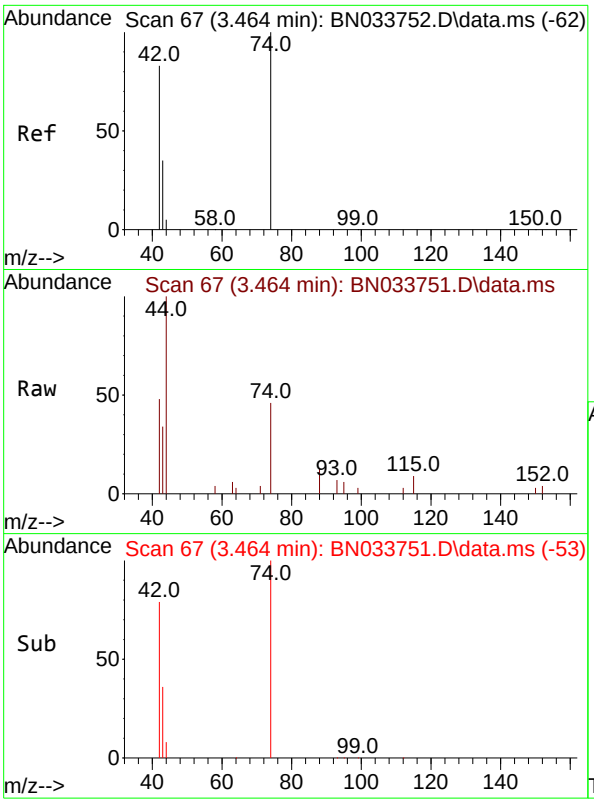


#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.168 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion: 88 Resp: 1320

Ion	Ratio	Lower	Upper
88	100		
43	40.7	29.0	43.4
58	79.1	64.1	96.1



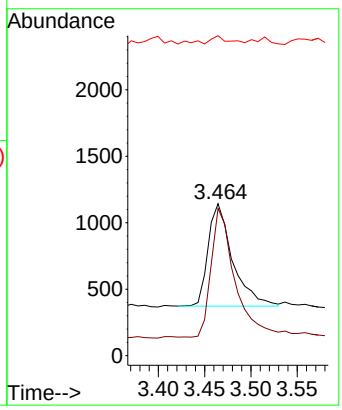


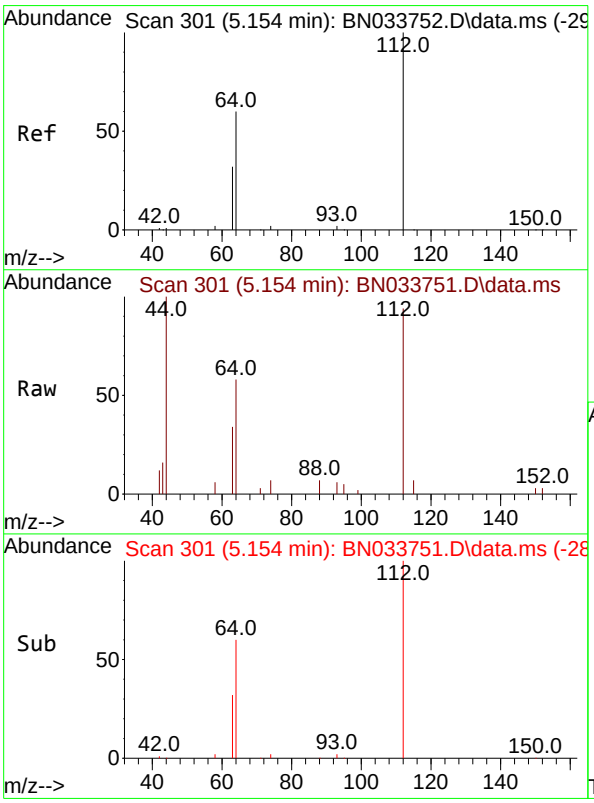
#3
n-Nitrosodimethylamine
Concen: 0.186 ng
RT: 3.464 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1419

Ion	Ratio	Lower	Upper
42	100		
74	121.1	93.5	140.3
44	7.5	7.4	11.0

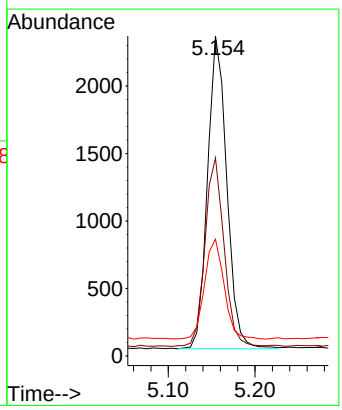


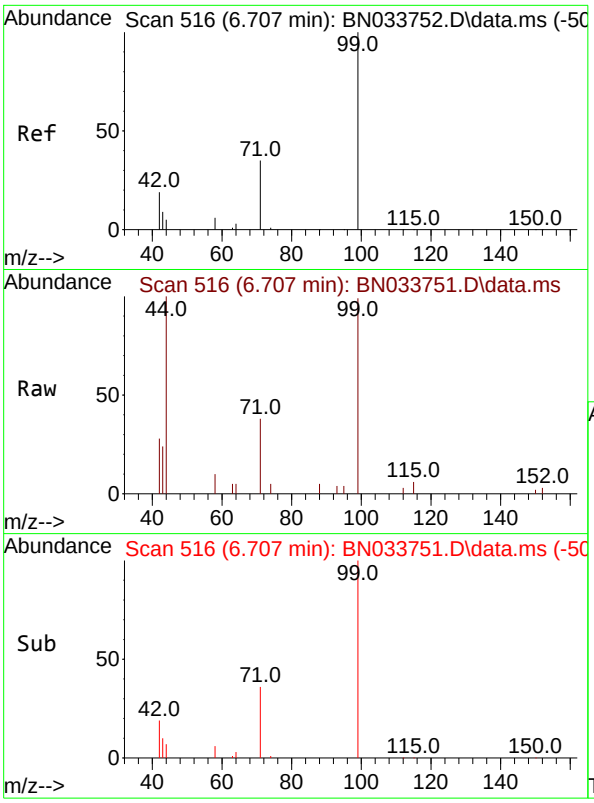


#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.154 min Scan# 301
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:112 Resp: 3566

Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.6	71.4
63	32.4	25.9	38.9



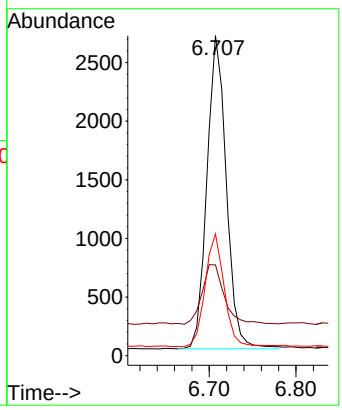


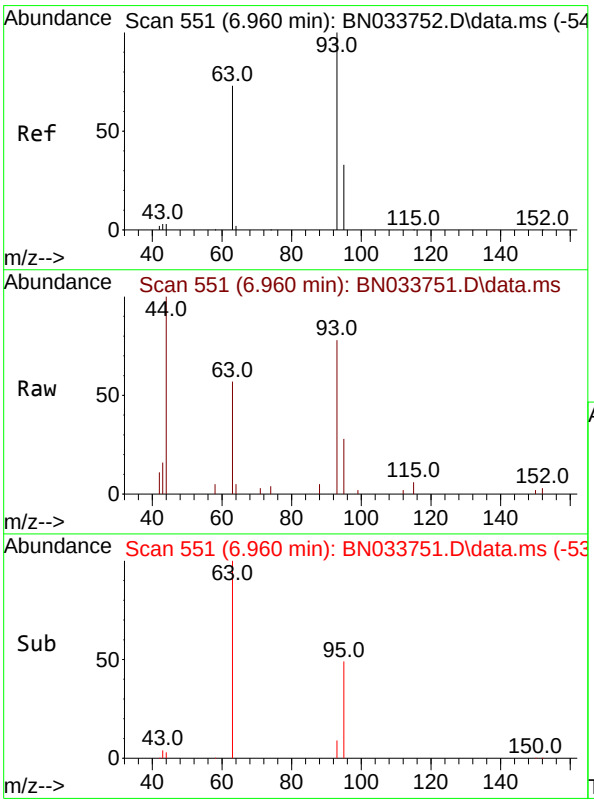
#5
Phenol-d6
Concen: 0.200 ng
RT: 6.707 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 4140

Ion	Ratio	Lower	Upper
99	100		
42	21.4	18.0	27.0
71	35.1	28.7	43.1

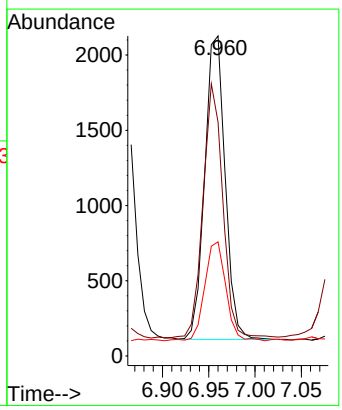


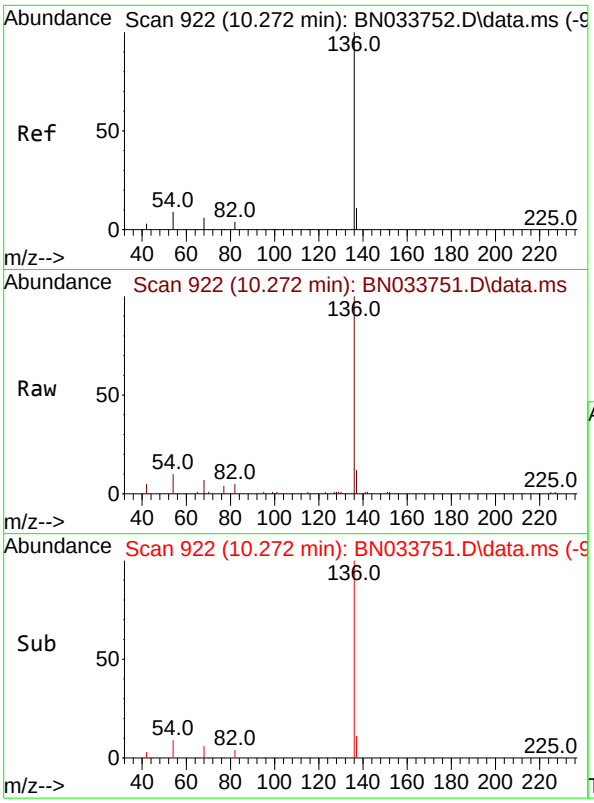


#6
bis(2-Chloroethyl)ether
Concen: 0.198 ng
RT: 6.960 min Scan# 551
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion: 93 Resp: 3098

Ion	Ratio	Lower	Upper
93	100		
63	80.8	64.4	96.6
95	33.6	26.5	39.7



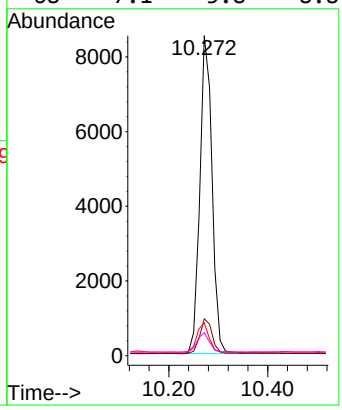


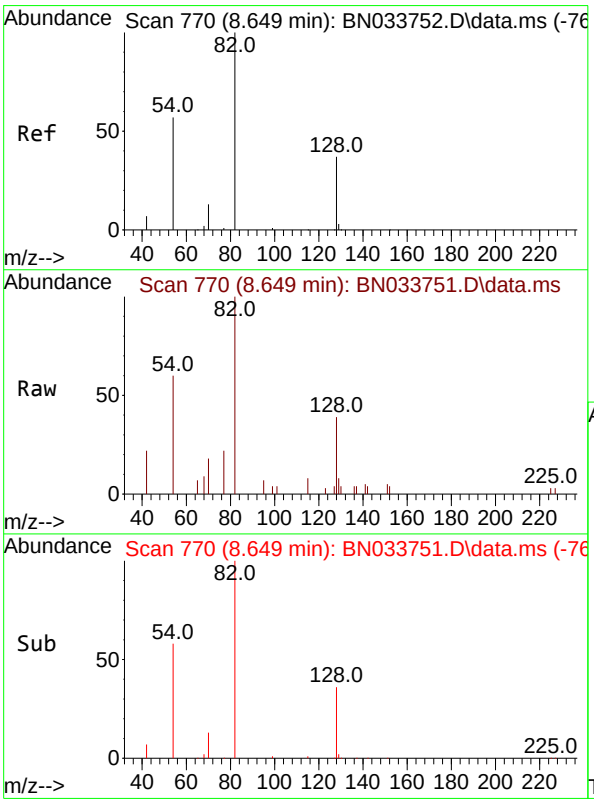
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.272 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 14601

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.4
54	10.2	8.1	12.1
68	7.1	5.8	8.8

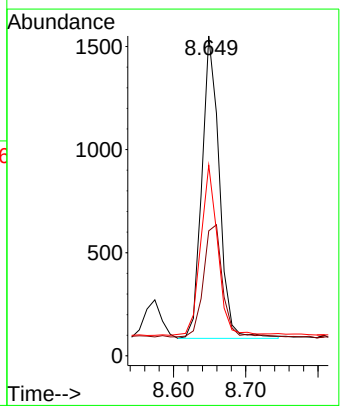


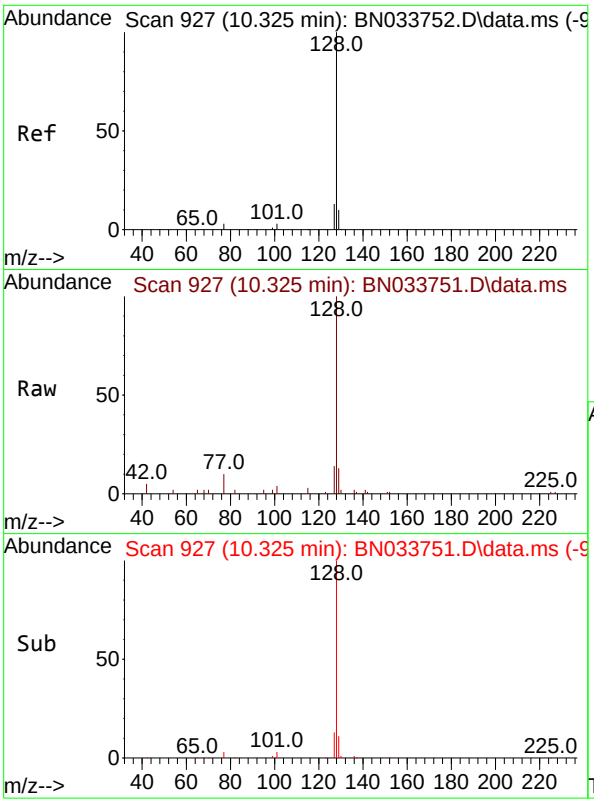


#8
Nitrobenzene-d5
Concen: 0.198 ng
RT: 8.649 min Scan# 770
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion: 82 Resp: 2459

Ion	Ratio	Lower	Upper
82	100		
128	39.1	31.3	46.9
54	59.6	46.9	70.3



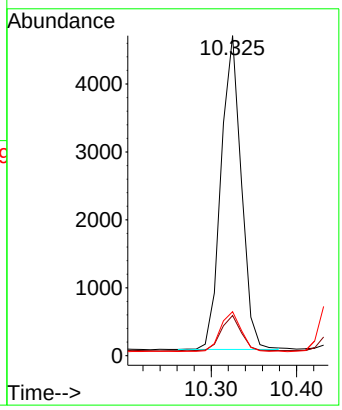


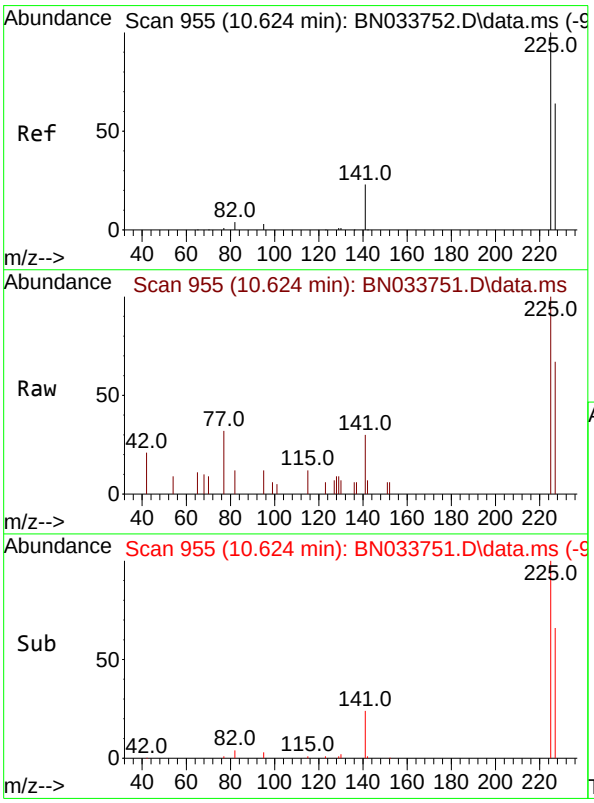
#9
Naphthalene
Concen: 0.195 ng
RT: 10.325 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 7618

Ion	Ratio	Lower	Upper
128	100		
129	12.5	8.9	13.3
127	13.8	10.8	16.2

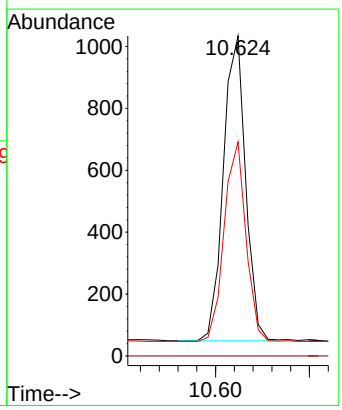


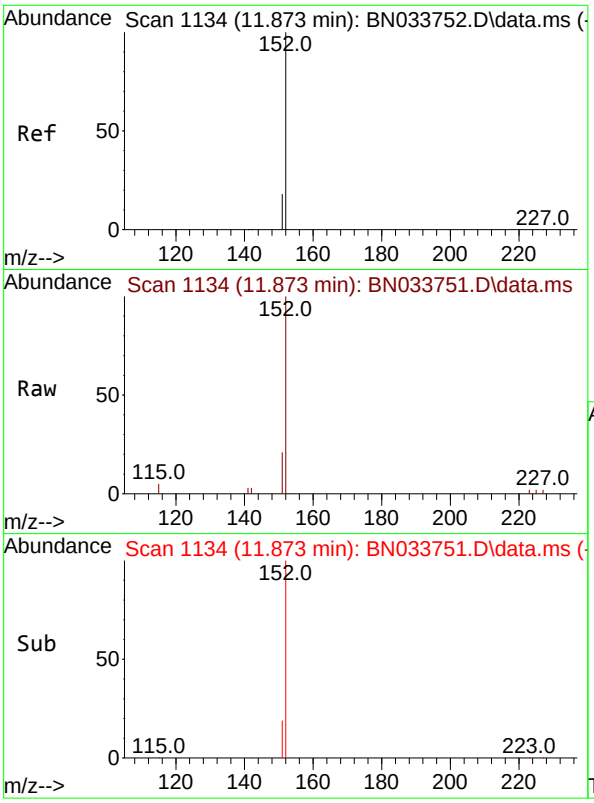


#10
Hexachlorobutadiene
Concen: 0.199 ng
RT: 10.624 min Scan# 955
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:225 Resp: 1619

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.2	76.8



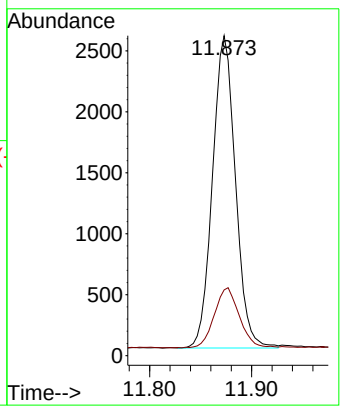


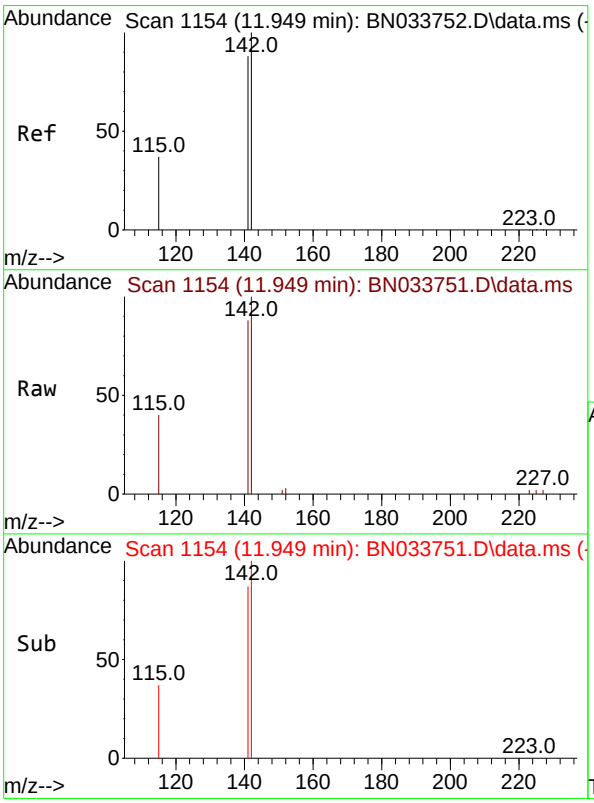
#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.873 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 3997

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

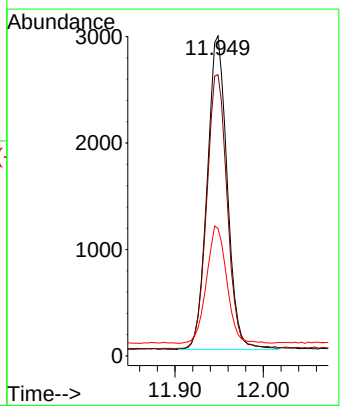


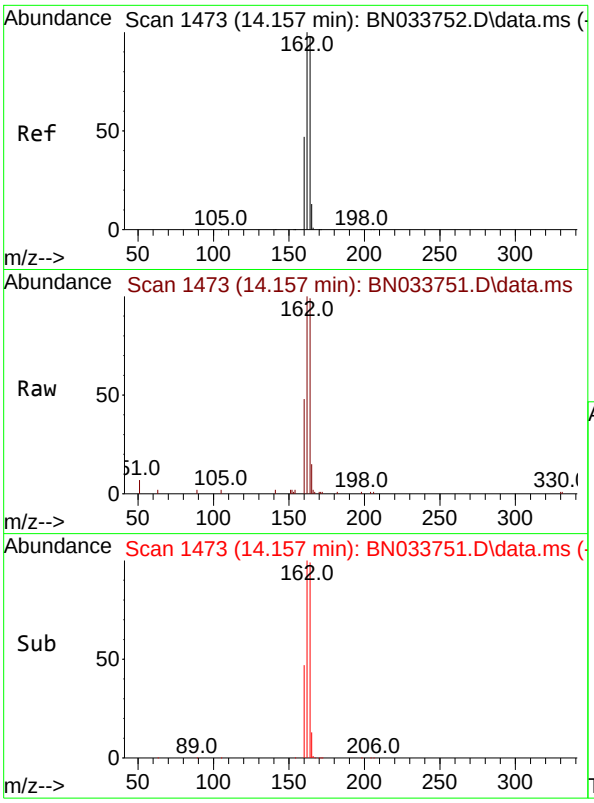


#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 11.949 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:142 Resp: 4622

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.9	106.3
115	39.8	31.0	46.4



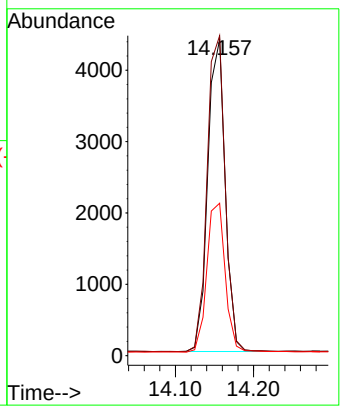


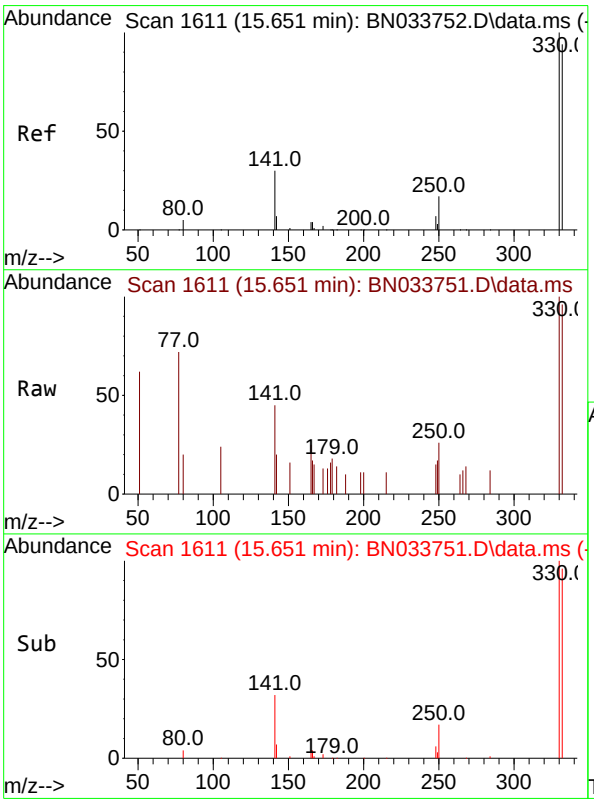
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.157 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 6775

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.0	123.0
160	48.3	39.1	58.7

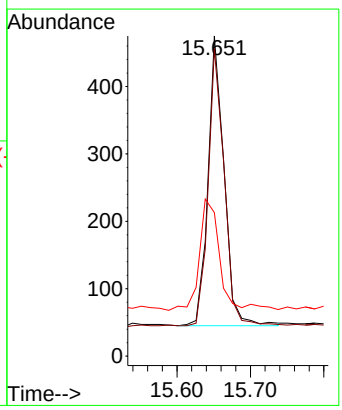


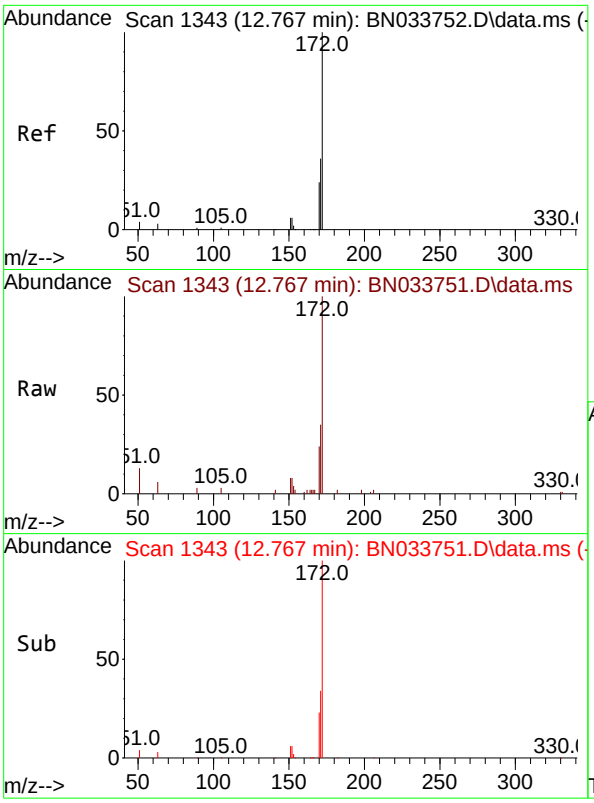


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.651 min Scan# 1611
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:330 Resp: 658

Ion	Ratio	Lower	Upper
330	100		
332	94.7	74.2	111.4
141	45.4	33.9	50.9



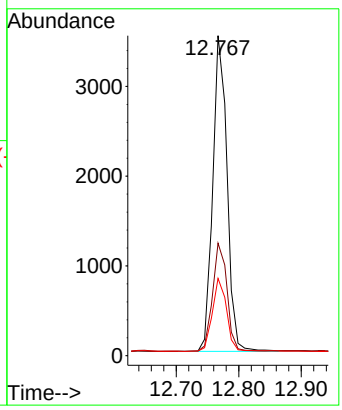


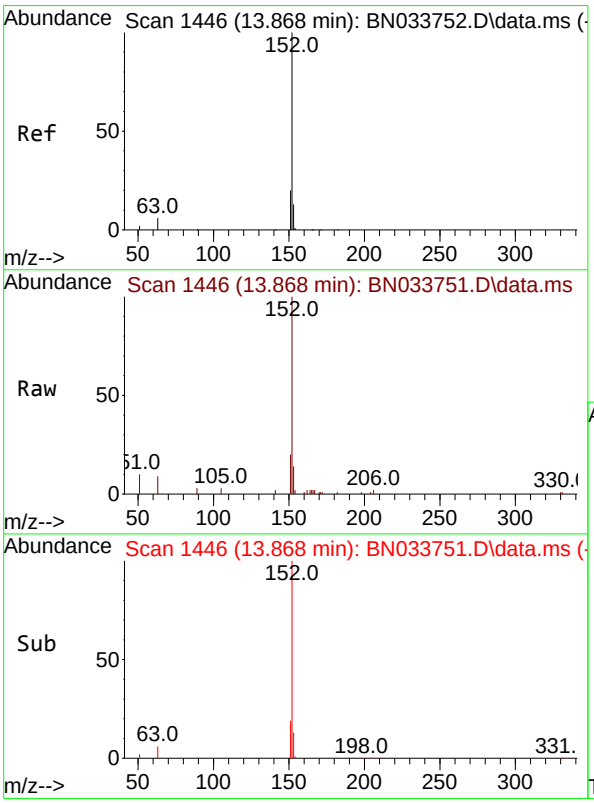
#15
2-Fluorobiphenyl
Concen: 0.198 ng
RT: 12.767 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 5579

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	24.2	19.7	29.5

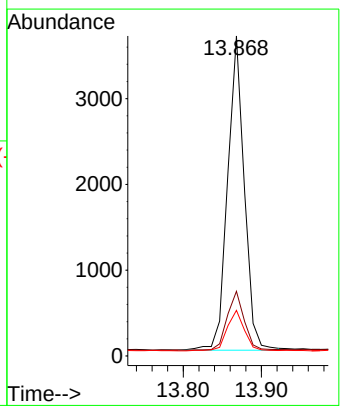


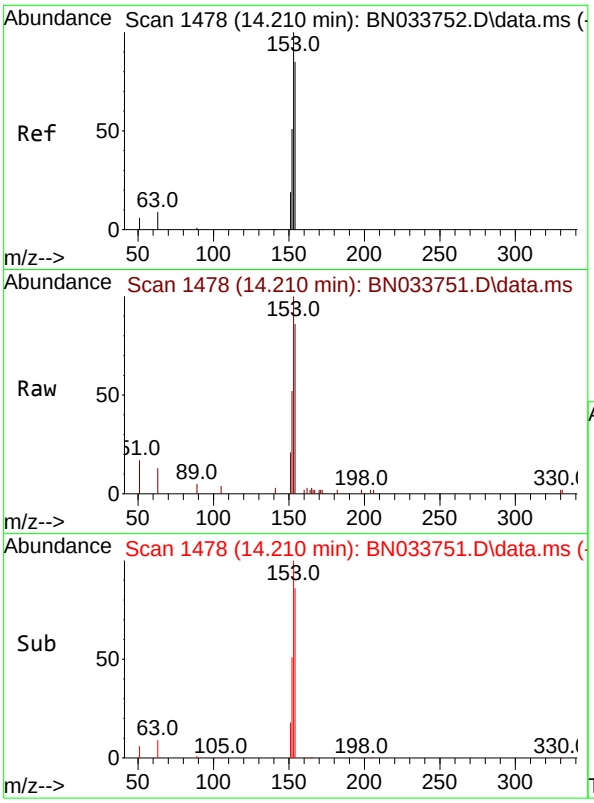


#16
Acenaphthylene
Concen: 0.185 ng
RT: 13.868 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:152 Resp: 5429

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.6	23.4
153	13.3	10.3	15.5



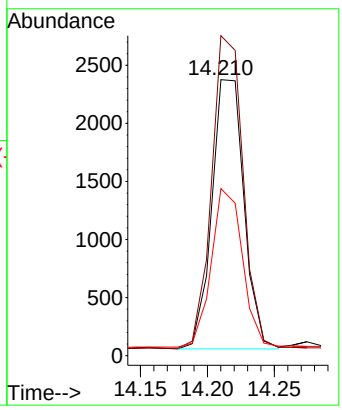


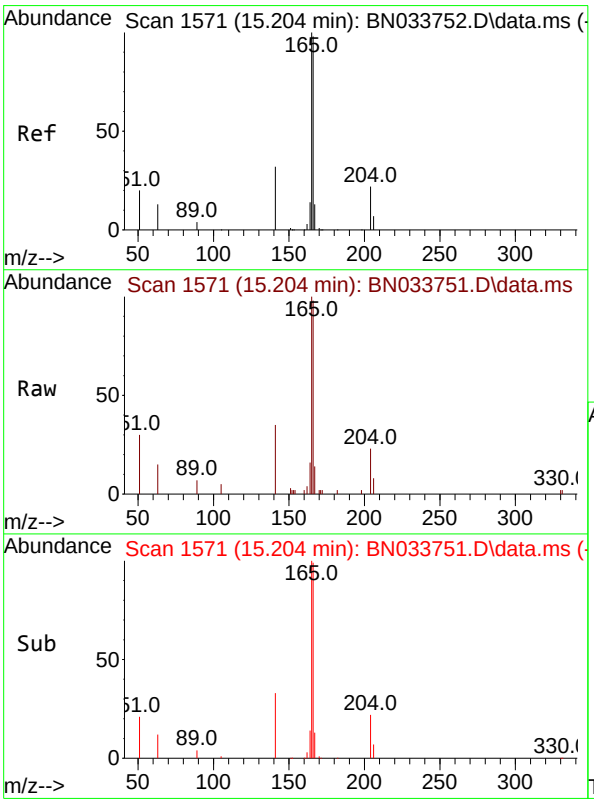
#17
Acenaphthene
Concen: 0.193 ng
RT: 14.210 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 3873

Ion	Ratio	Lower	Upper
154	100		
153	113.7	91.4	137.2
152	57.3	45.8	68.6

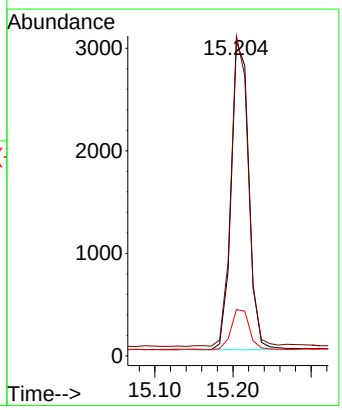


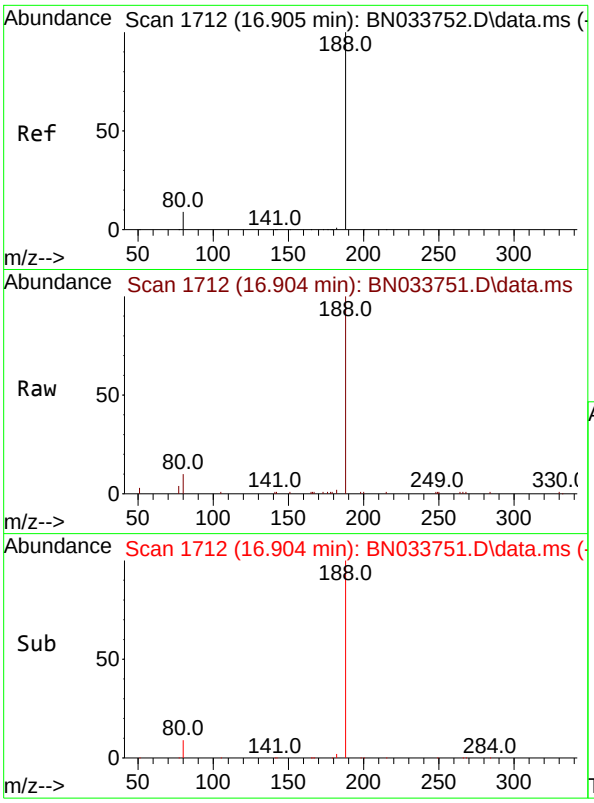


#18
Fluorene
Concen: 0.191 ng
RT: 15.204 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:166 Resp: 4720

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.8	118.2
167	13.6	10.6	16.0



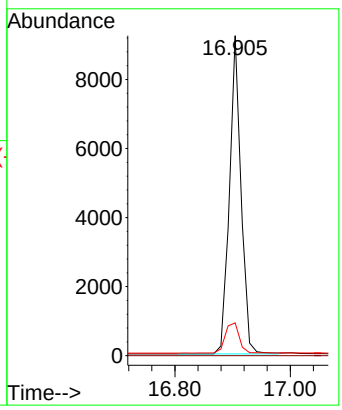


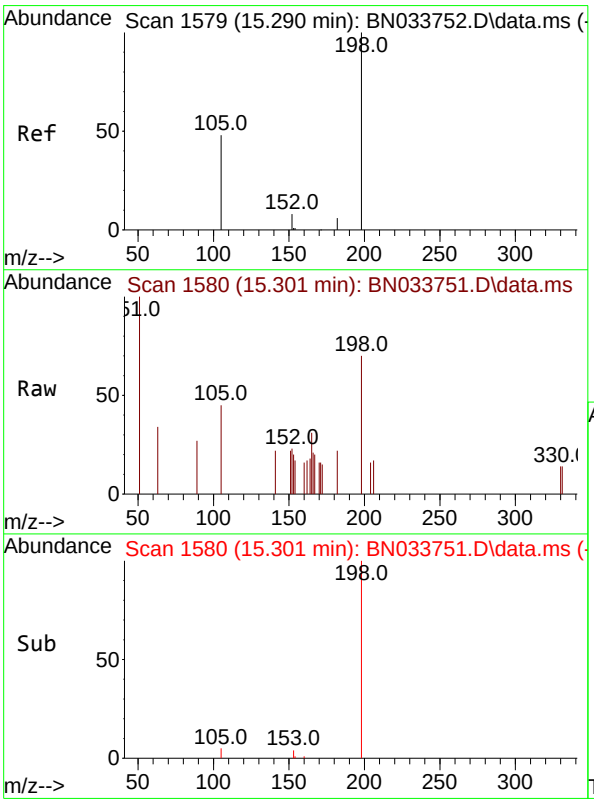
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 12906

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	7.9	11.9

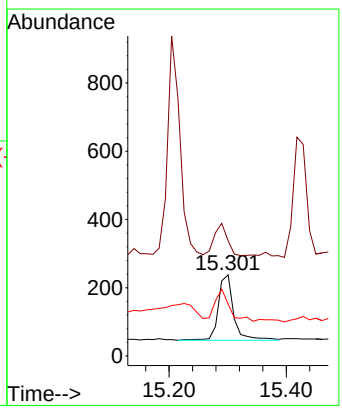


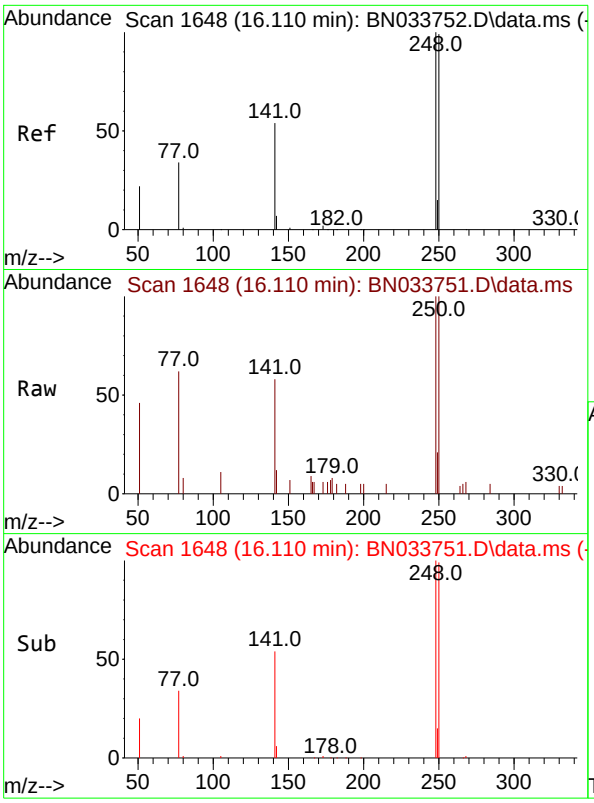


#20
4,6-Dinitro-2-methylphenol
Concen: 0.170 ng
RT: 15.301 min Scan# 1580
Delta R.T. 0.011 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:198 Resp: 347

Ion	Ratio	Lower	Upper
198	100		
51	142.0	92.8	139.2#
105	63.9	59.4	89.0



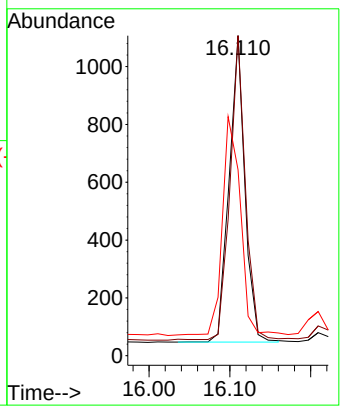


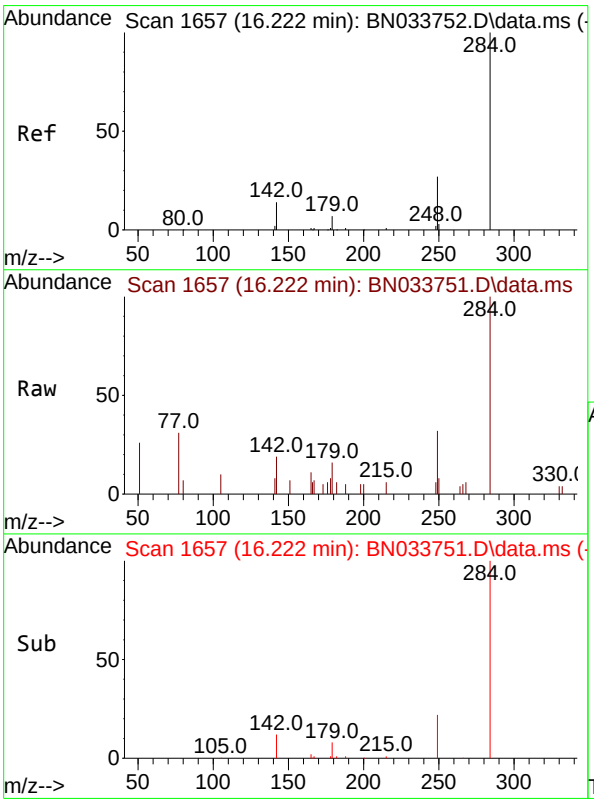
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1442

Ion	Ratio	Lower	Upper
248	100		
250	100.0	79.5	119.3
141	58.1	44.9	67.3

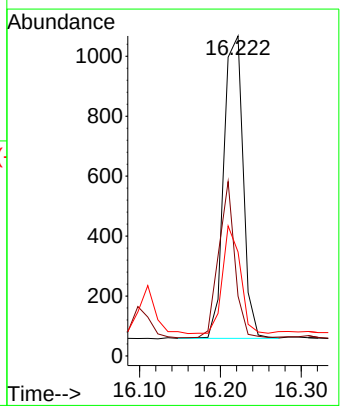


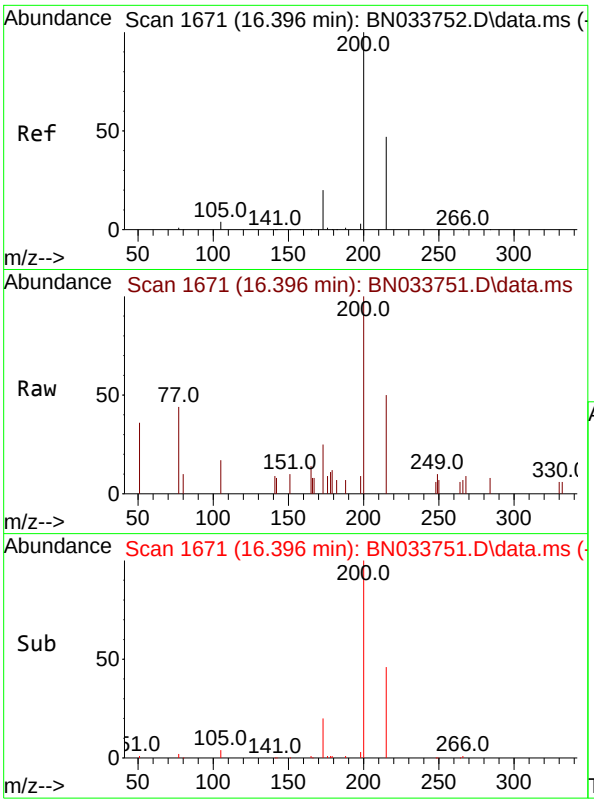


#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.222 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:284 Resp: 1677

Ion	Ratio	Lower	Upper
284	100		
142	43.2	32.8	49.2
249	32.7	26.2	39.2



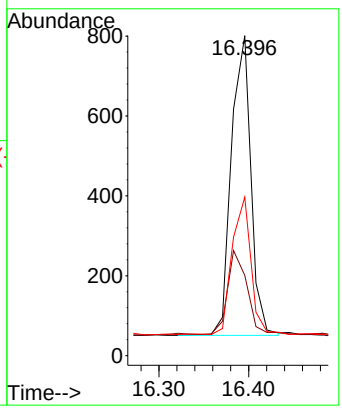


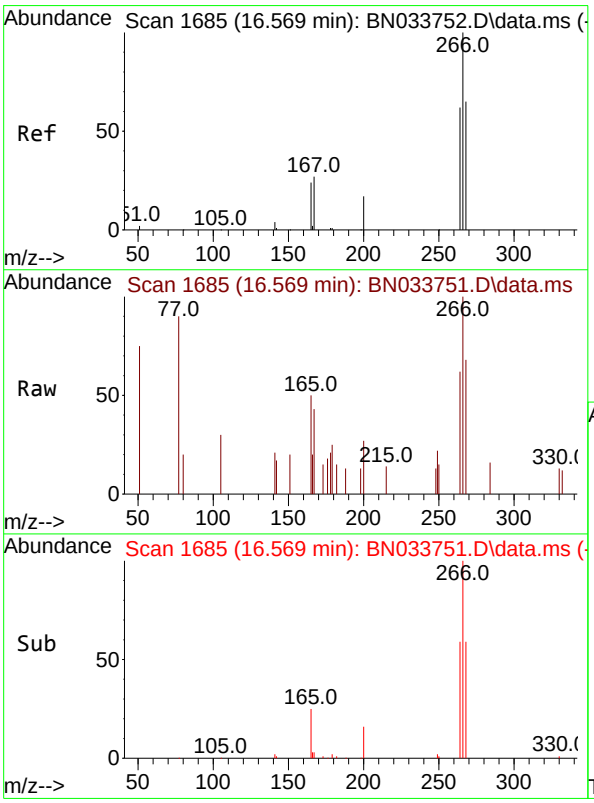
#23
Atrazine
Concen: 0.189 ng
RT: 16.396 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1129

Ion	Ratio	Lower	Upper
200	100		
173	25.1	18.2	27.4
215	49.6	39.0	58.4

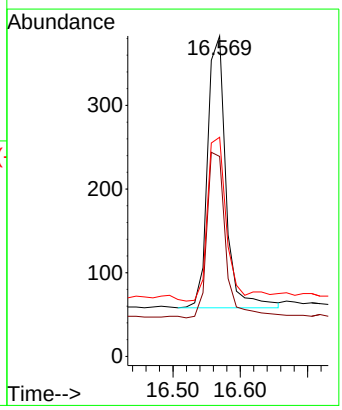


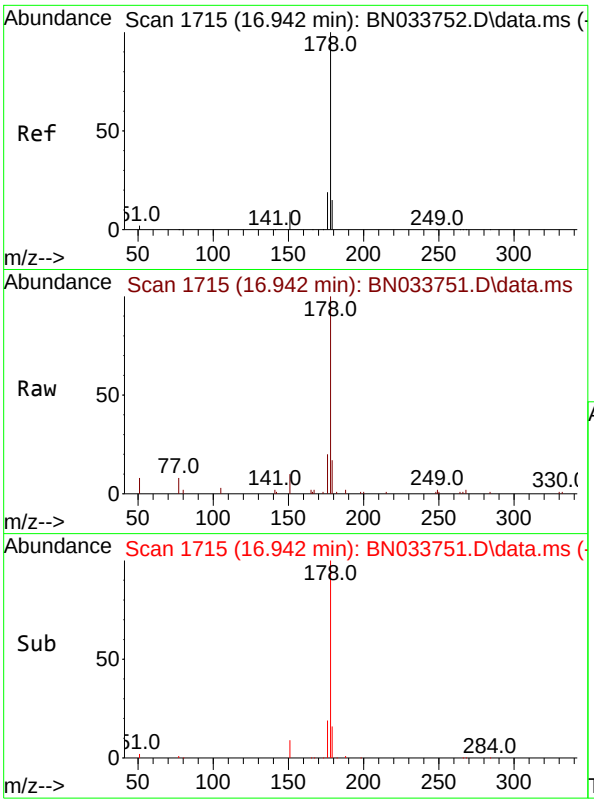


#24
Pentachlorophenol
Concen: 0.176 ng
RT: 16.569 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:266 Resp: 616

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.6	74.4
268	62.2	52.2	78.4



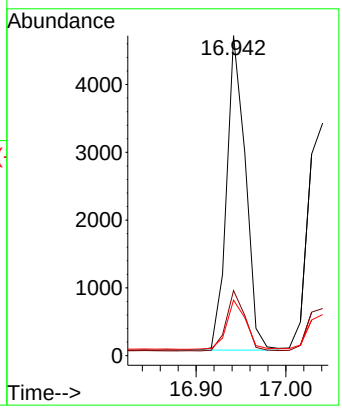


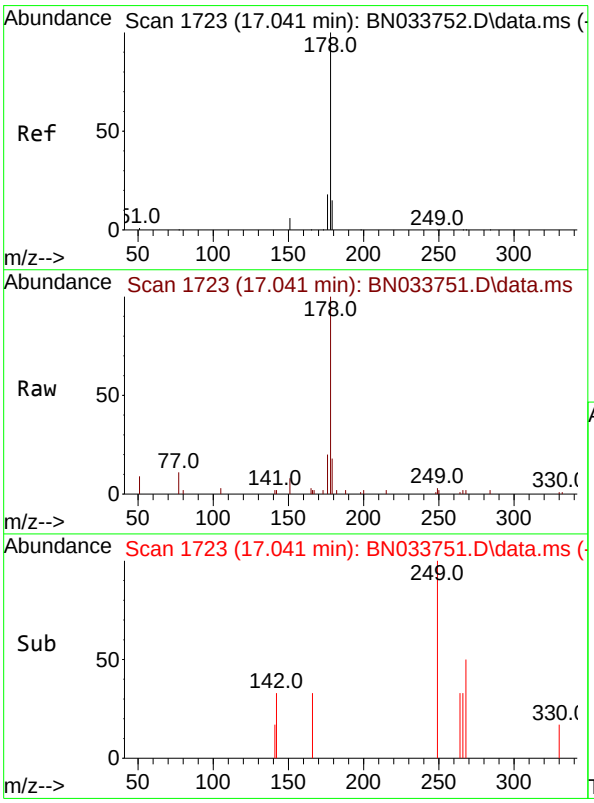
#25
Phenanthrene
Concen: 0.191 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 6775

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	16.0	12.2	18.4

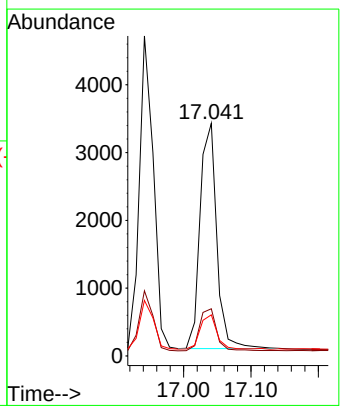


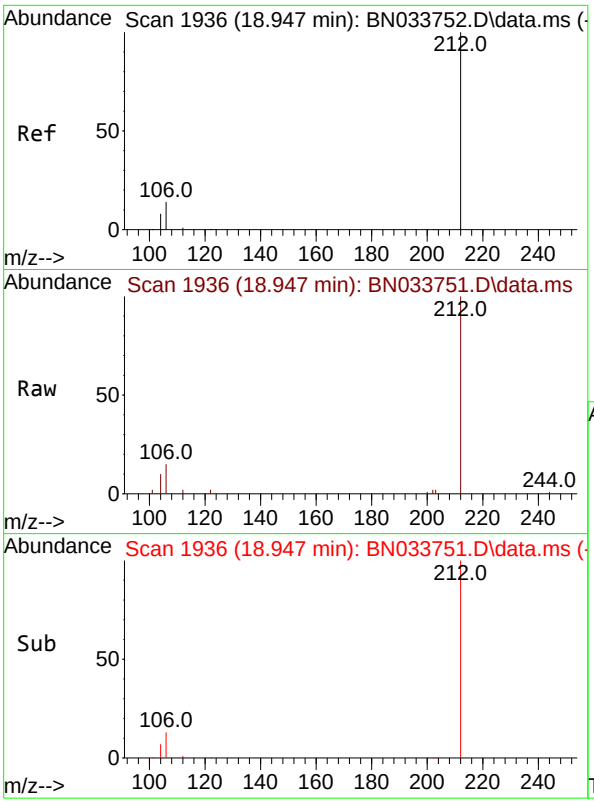


#26
Anthracene
Concen: 0.185 ng
RT: 17.041 min Scan# 1723
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:178 Resp: 5733

Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.8	22.2
179	15.5	12.4	18.6



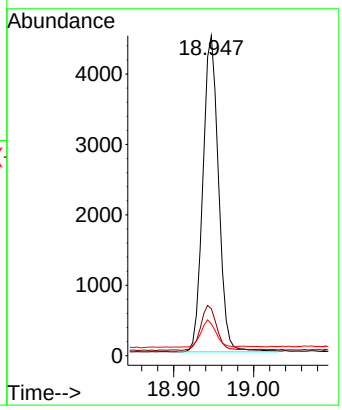


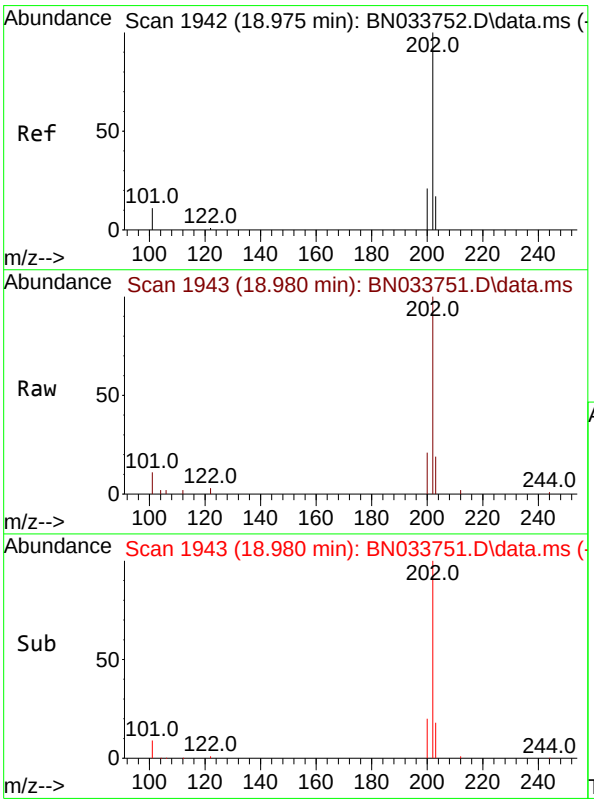
#27
Fluoranthene-d10
Concen: 0.192 ng
RT: 18.947 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 6098

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.5	17.3
104	8.4	6.6	9.8

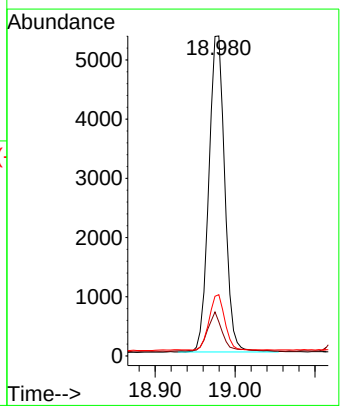


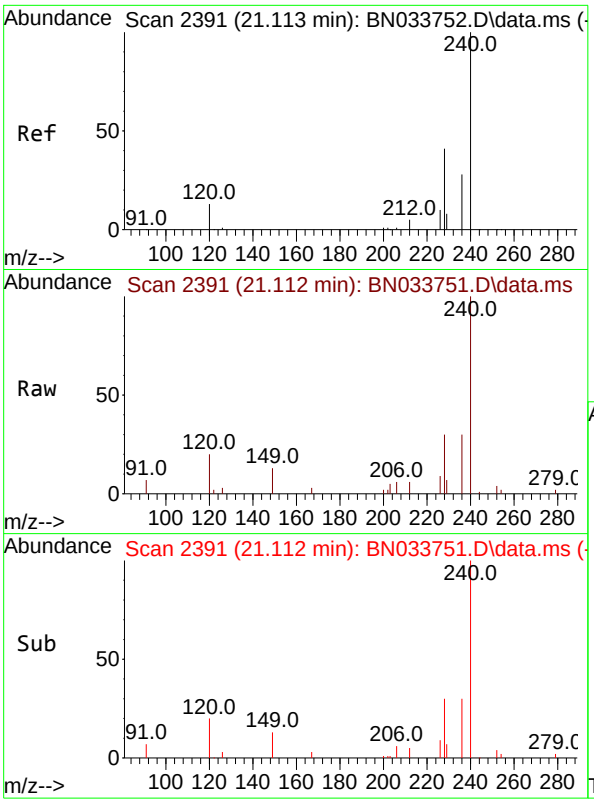


#28
Fluoranthene
Concen: 0.186 ng
RT: 18.980 min Scan# 1943
Delta R.T. 0.005 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:202 Resp: 7423

Ion	Ratio	Lower	Upper
202	100		
101	12.4	9.2	13.8
203	17.1	13.8	20.6



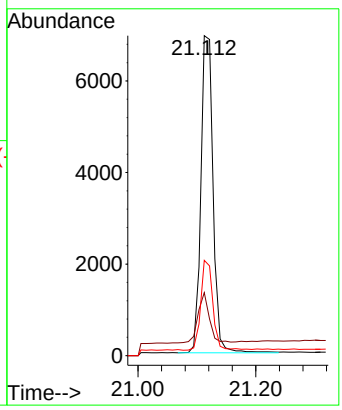


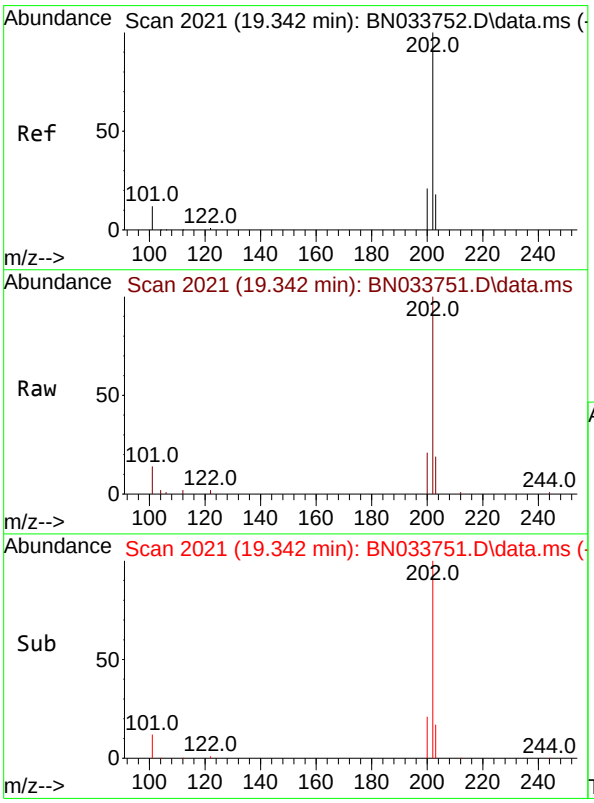
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9964

Ion	Ratio	Lower	Upper
240	100		
120	19.7	13.7	20.5
236	29.8	23.4	35.2

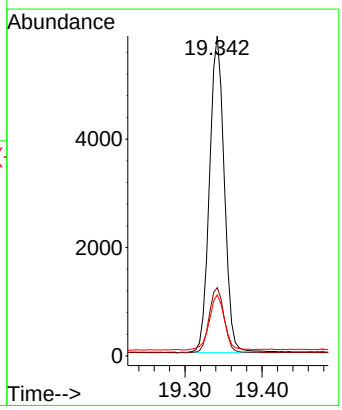


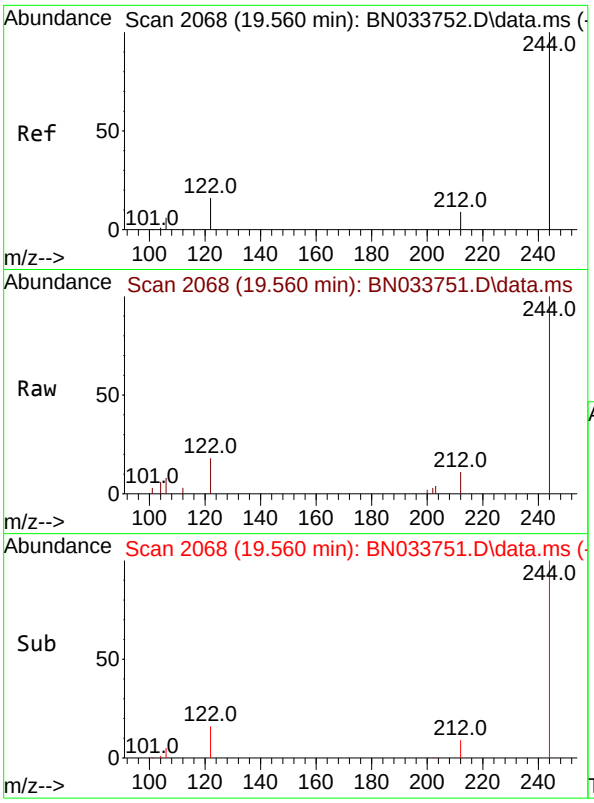


#30
Pyrene
Concen: 0.194 ng
RT: 19.342 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:202 Resp: 7791

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.2	14.4	21.6



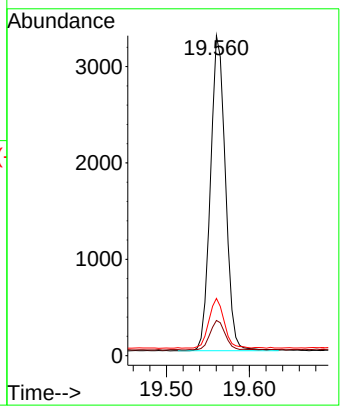


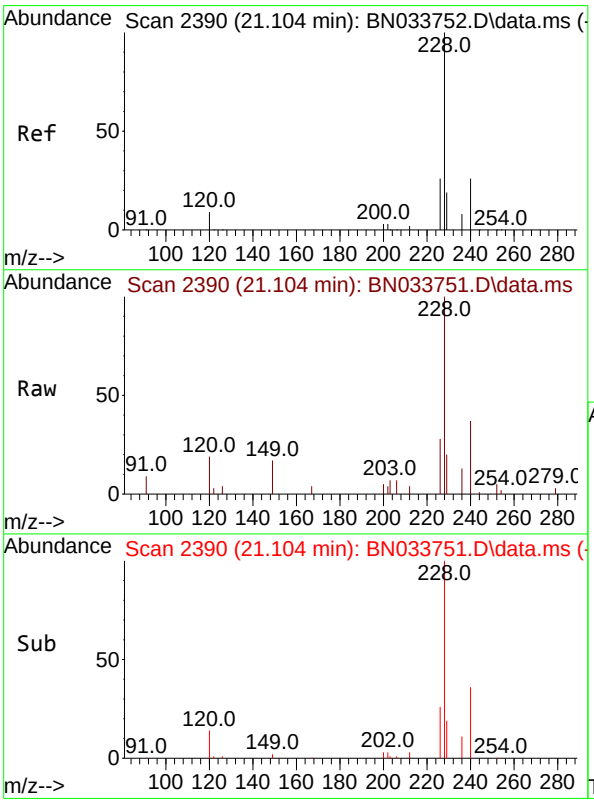
#31
Terphenyl-d14
Concen: 0.193 ng
RT: 19.560 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 4106

Ion	Ratio	Lower	Upper
244	100		
212	11.0	7.9	11.9
122	17.9	13.2	19.8

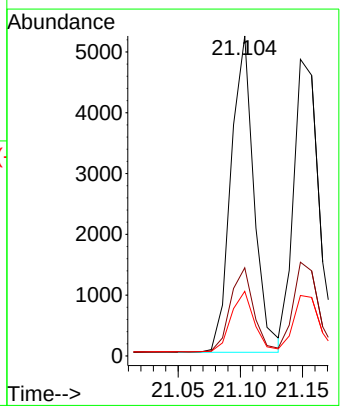


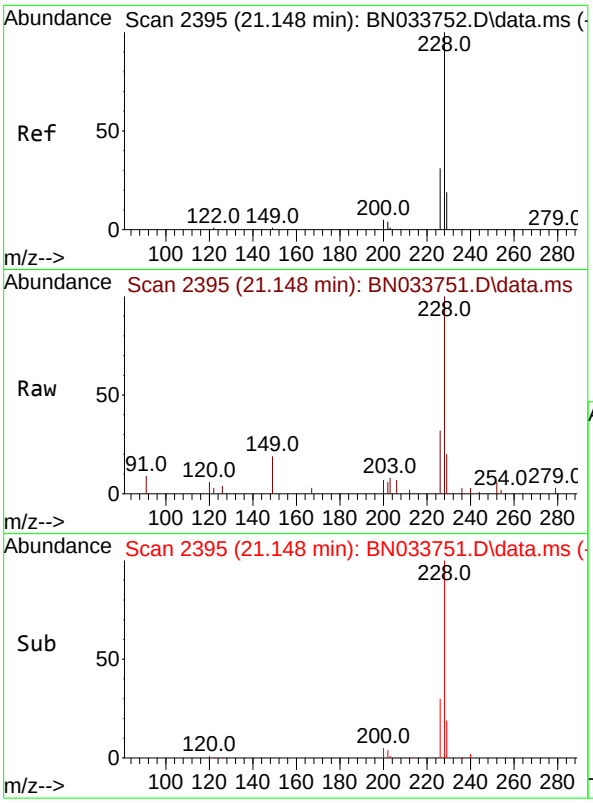


#32
Benzo(a)anthracene
Concen: 0.188 ng
RT: 21.104 min Scan# 2390
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:228 Resp: 6696

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.2	31.8
229	20.2	15.9	23.9



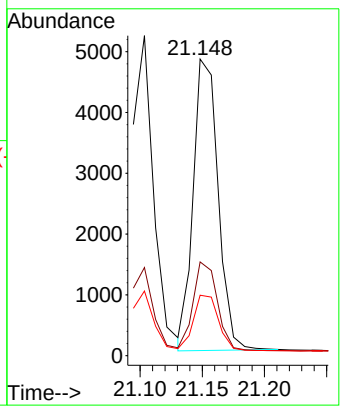


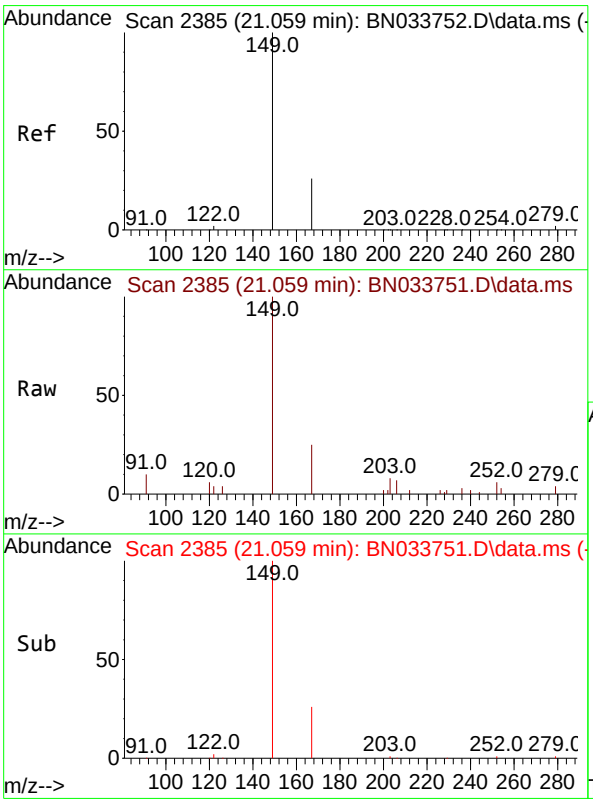
#33
Chrysene
Concen: 0.190 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 6671

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.0	37.6
229	20.4	15.6	23.4

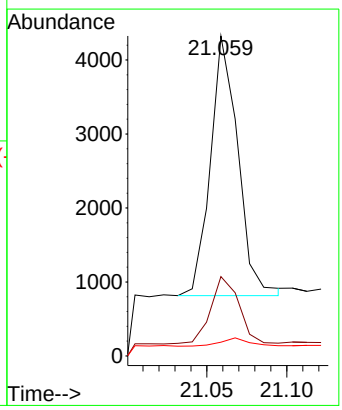


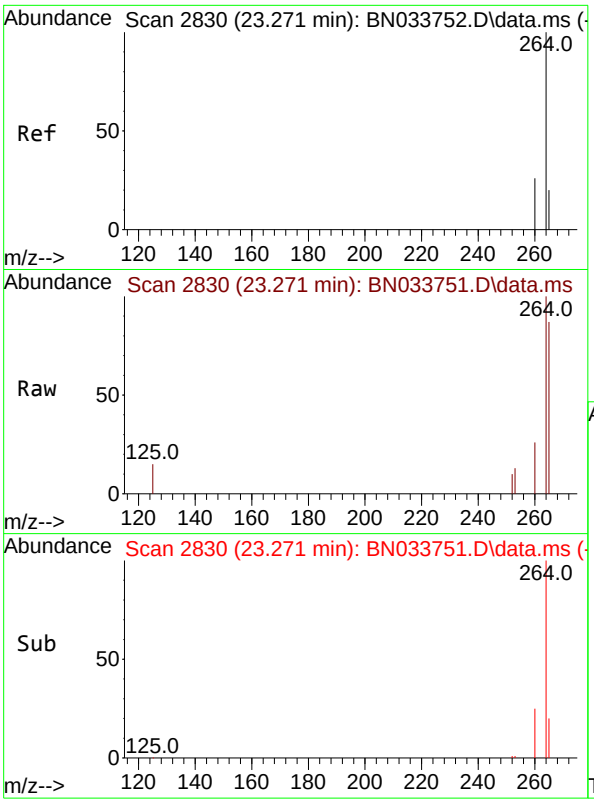


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.216 ng
RT: 21.059 min Scan# 2385
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:149 Resp: 4198

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.0	31.4
279	3.3	2.4	3.6



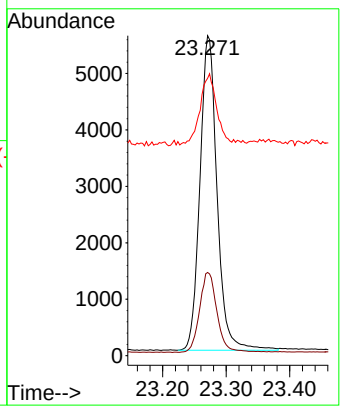


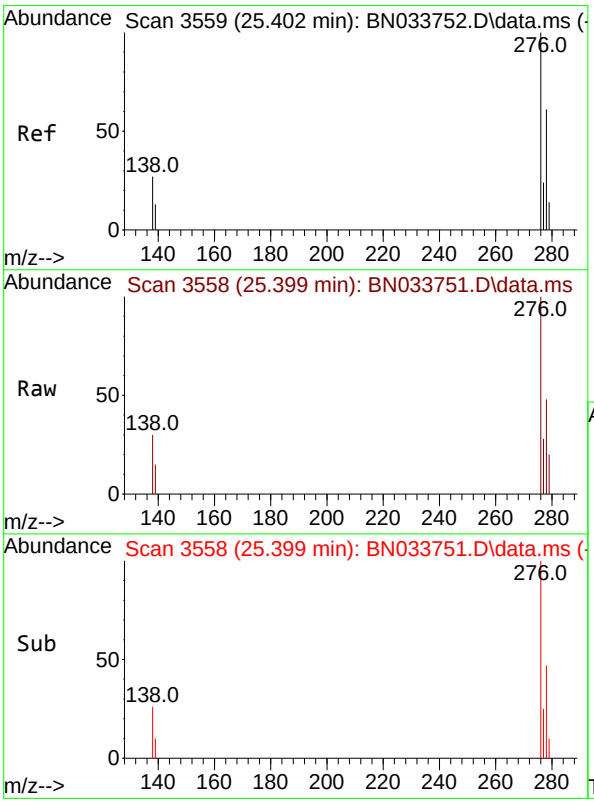
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.271 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 10451

Ion	Ratio	Lower	Upper
264	100		
260	26.0	21.1	31.7
265	86.7	72.0	108.0

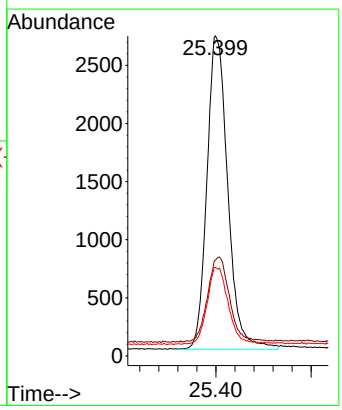


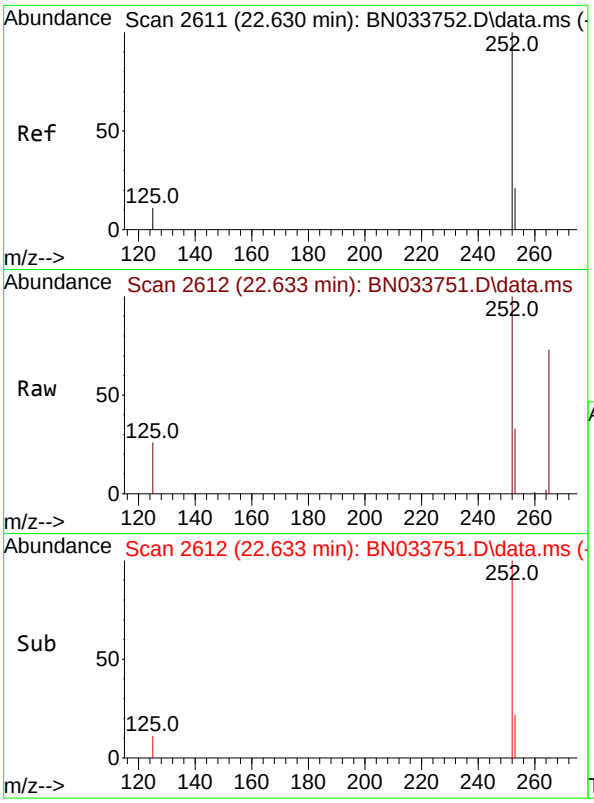


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.190 ng
RT: 25.399 min Scan# 3558
Delta R.T. -0.003 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:276 Resp: 8195

Ion	Ratio	Lower	Upper
276	100		
138	27.4	23.0	34.6
277	24.1	20.2	30.4



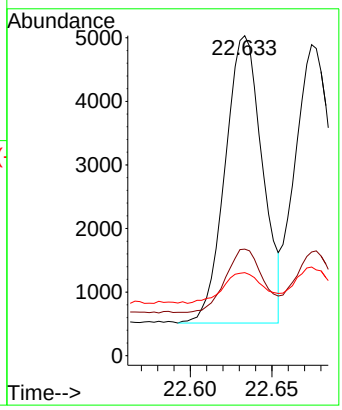


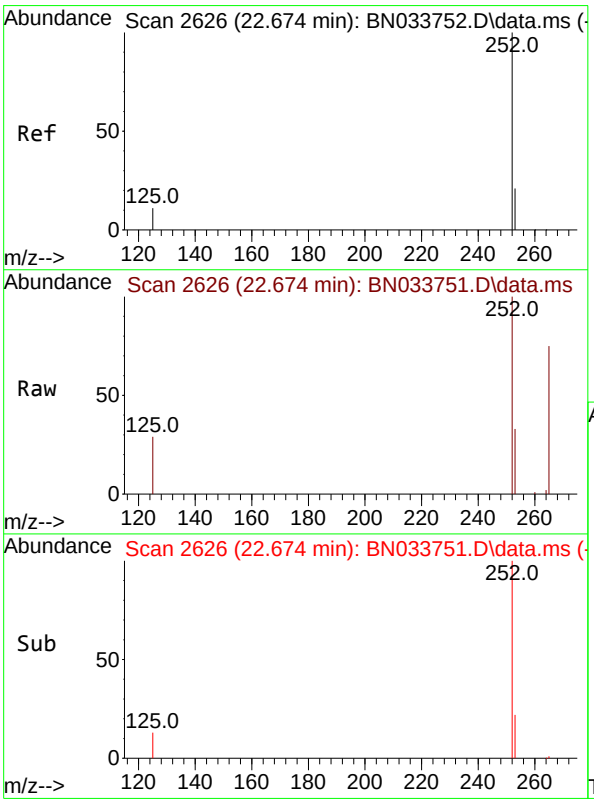
#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.633 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7173

Ion	Ratio	Lower	Upper
252	100		
253	33.3	21.8	32.6#
125	25.9	15.4	23.0#

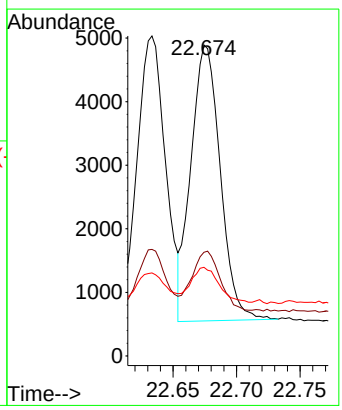


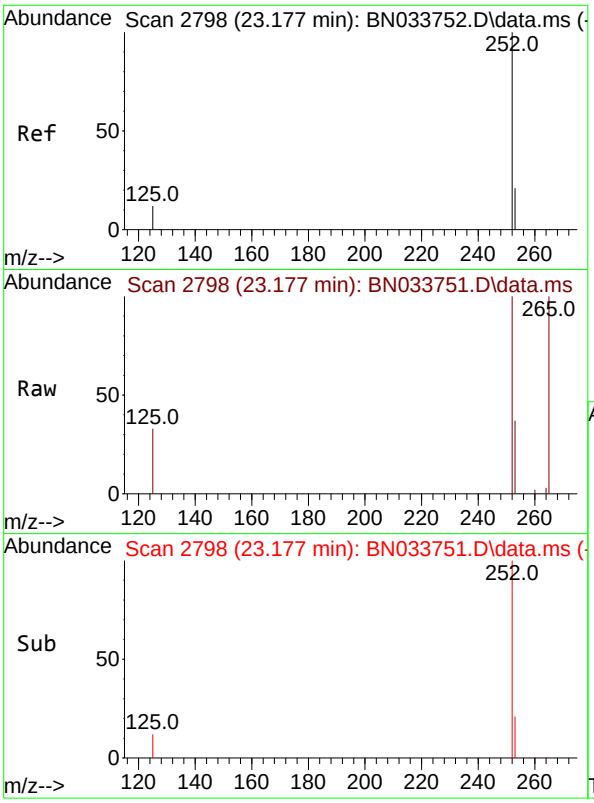


#38
Benzo(k)fluoranthene
Concen: 0.186 ng
RT: 22.674 min Scan# 2626
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:252 Resp: 6973

Ion	Ratio	Lower	Upper
252	100		
253	33.4	21.8	32.8#
125	28.5	15.4	23.2#



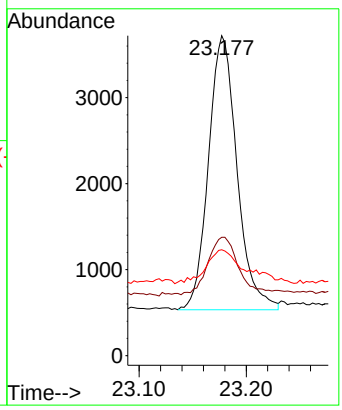


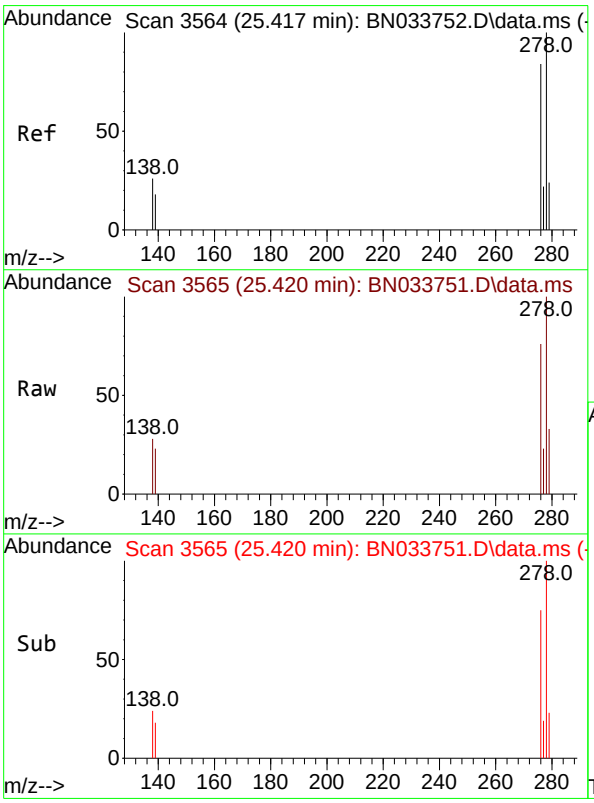
#39
Benzo(a)pyrene
Concen: 0.184 ng
RT: 23.177 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 5909

Ion	Ratio	Lower	Upper
252	100		
253	37.0	24.0	36.0#
125	33.1	19.1	28.7#

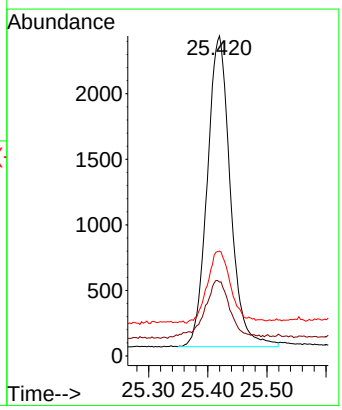


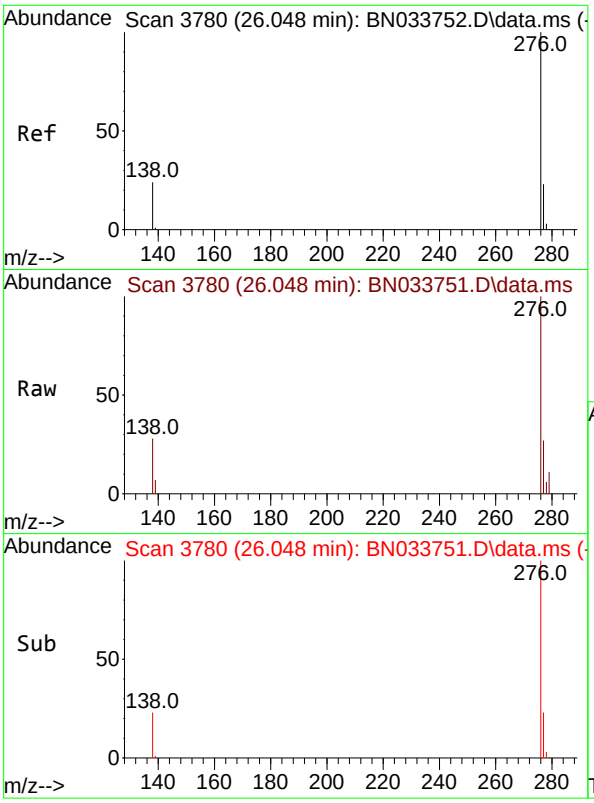


#40
Dibenzo(a,h)anthracene
Concen: 0.186 ng
RT: 25.420 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Tgt Ion:278 Resp: 6424

Ion	Ratio	Lower	Upper
278	100		
139	23.1	16.7	25.1
279	32.8	23.4	35.0





#41
Benzo(g,h,i)perylene
Concen: 0.190 ng
RT: 26.048 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN033751.D
Acq: 04 Sep 2024 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 7116

Ion	Ratio	Lower	Upper
276	100		
277	26.9	20.3	30.5
138	27.9	20.9	31.3