Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022322\
Data File : BN018698.D
Acq On : 23 Feb 2022 15:29
Operator : CG/JU
Sample : PB142873BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Quant Time: Feb 24 01:36:37 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN022222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 22 16:23:51 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.919	152	7029	0.400	ng	0.00
7) Naphthalene-d8	10.722	136	16547	0.400	ng	# 0.00
13) Acenaphthene-d10	14.549	164	7708	0.400	ng	0.00
19) Phenanthrene-d10	17.287	188	13887	0.400	ng	0.00
29) Chrysene-d12	21.467	240	10381	0.400	ng	# 0.00
35) Perylene-d12	23.864	264	10101	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.471	112	5265	0.327	ng	0.00
5) Phenol-d6	7.067	99	5888	0.318	ng	0.00
8) Nitrobenzene-d5	9.068	82	3904	0.305	ng	0.00
11) 2-Methylnaphthalene-d10	12.310	152	8112	0.325	ng	0.00
14) 2,4,6-Tribromophenol	16.036	330	832	0.276	ng	0.01
15) 2-Fluorobiphenyl	13.180	172	12207	0.334	ng	0.00
27) Fluoranthene-d10	19.312	212	12023	0.319	ng	0.00
31) Terphenyl-d14	19.906	244	7587	0.337	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.326	88	2872	0.352	ng	# 60
3) n-Nitrosodimethylamine	3.644	42	2733	0.338	ng	# 88
6) bis(2-Chloroethyl)ether	7.334	93	6458	0.340	ng	99
9) Naphthalene	10.776	128	16005	0.335	ng	99
10) Hexachlorobutadiene	11.075	225	3767	0.328	ng	# 100
12) 2-Methylnaphthalene	12.382	142	10601	0.332	ng	97
16) Acenaphthylene	14.271	152	10895	0.298	ng	100
17) Acenaphthene	14.613	154	8062	0.319	ng	99
18) Fluorene	15.596	166	9672	0.318	ng	99
20) 4,6-Dinitro-2-methylph...	15.661	198	538	0.326	ng	93
21) 4-Bromophenyl-phenylether	16.477	248	3059	0.310	ng	# 91
22) Hexachlorobenzene	16.600	284	3985	0.323	ng	# 86
23) Atrazine	16.733	200	1596	0.293	ng	# 90
24) Pentachlorophenol	16.938	266	638	0.318	ng	96
25) Phenanthrene	17.328	178	15126	0.325	ng	100
26) Anthracene	17.420	178	12002	0.305	ng	99
28) Fluoranthene	19.341	202	15217	0.313	ng	# 97
30) Pyrene	19.704	202	15336	0.331	ng	100
32) Benzo(a)anthracene	21.449	228	12370	0.314	ng	99
33) Chrysene	21.503	228	14584	0.332	ng	99
34) Bis(2-ethylhexyl)phtha...	21.378	149	5400	0.338	ng	# 96
36) Indeno(1,2,3-cd)pyrene	26.349	276	18014	0.338	ng	# 88
37) Benzo(b)fluoranthene	23.130	252	14310	0.312	ng	# 87
38) Benzo(k)fluoranthene	23.179	252	14548	0.320	ng	# 92
39) Benzo(a)pyrene	23.758	252	11639	0.318	ng	# 73
40) Dibenzo(a,h)anthracene	26.366	278	13871	0.333	ng	# 91
41) Benzo(g,h,i)perylene	27.109	276	14482	0.317	ng	# 88

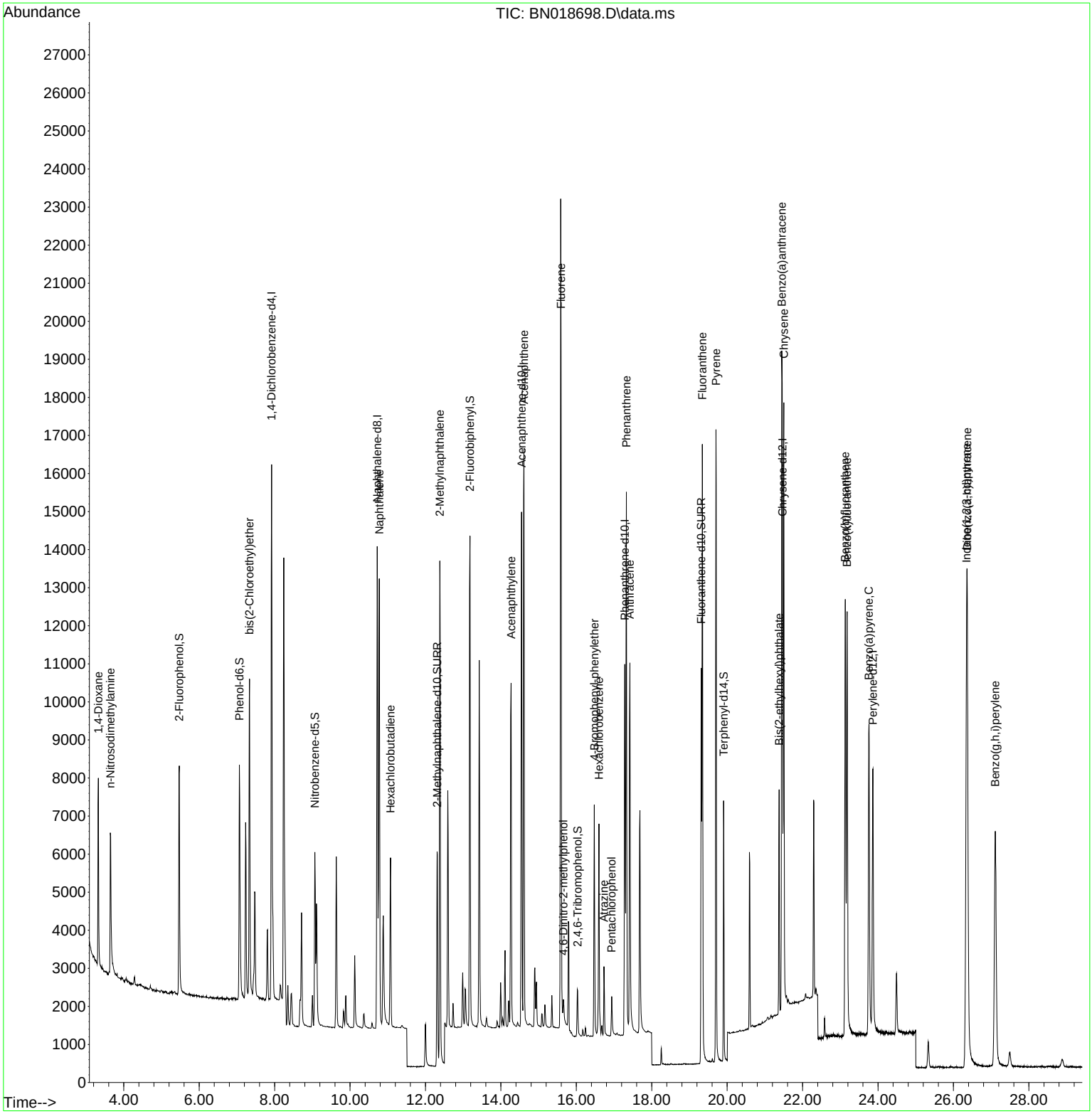
(#) = qualifier out of range (m) = manual integration (+) = signals summed

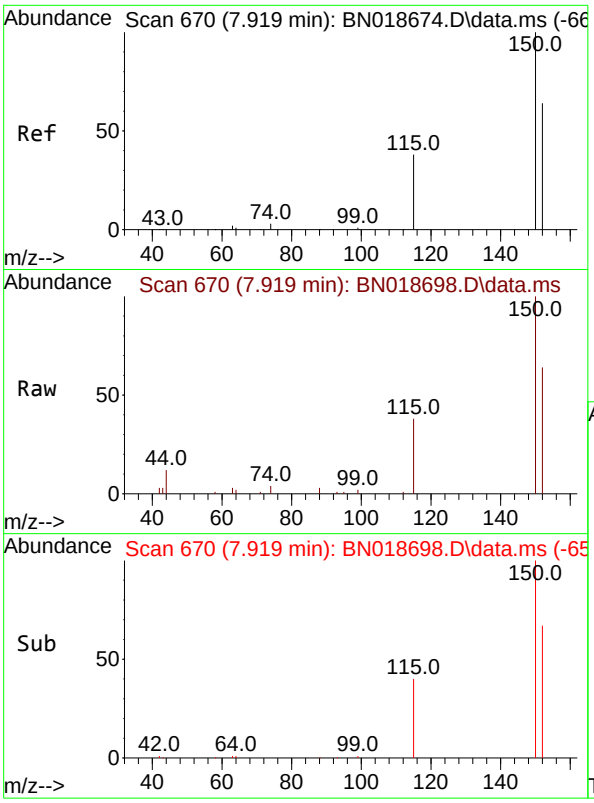
Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022322\
Data File : BN018698.D
Acq On : 23 Feb 2022 15:29
Operator : CG/JU
Sample : PB142873BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Quant Time: Feb 24 01:36:37 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN022222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 22 16:23:51 2022
Response via : Initial Calibration



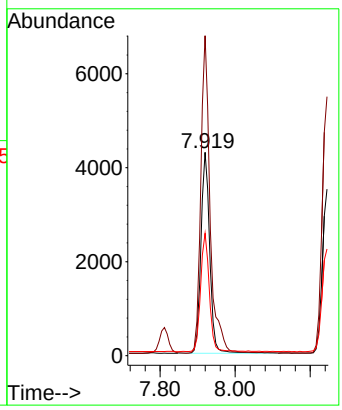


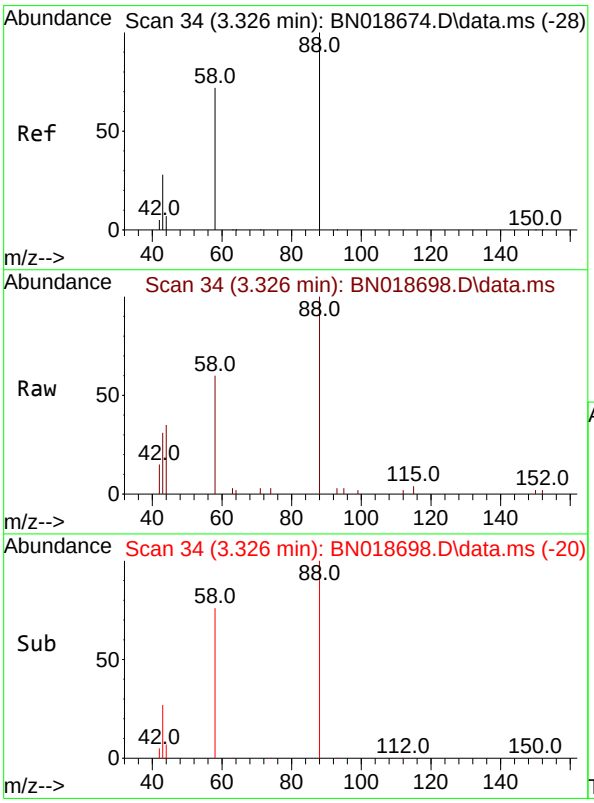
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.919 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:152 Resp: 7029

Ion	Ratio	Lower	Upper
152	100		
150	157.4	121.7	182.5
115	60.2	43.8	65.8

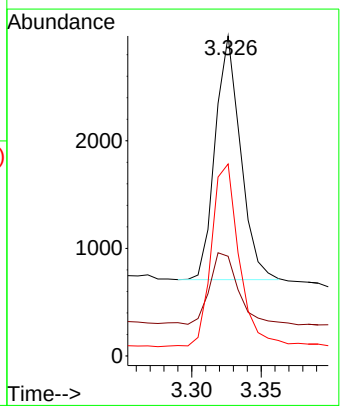


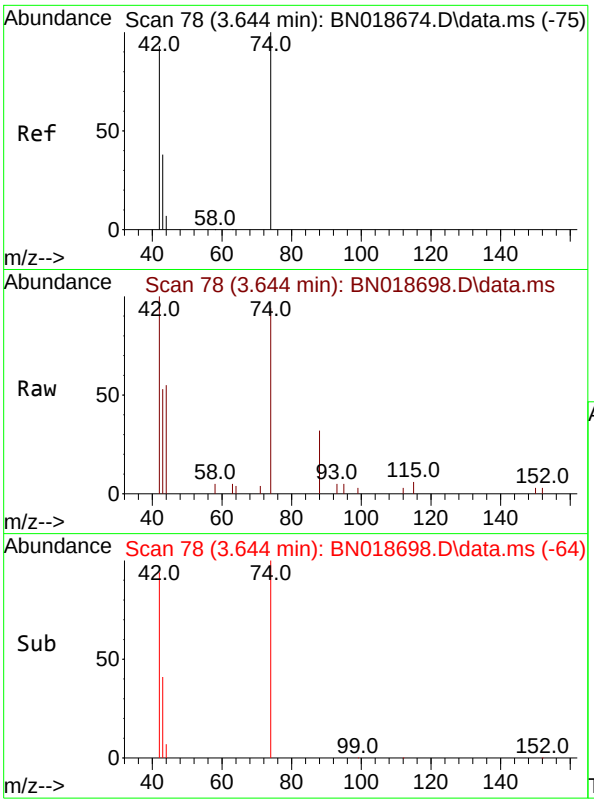


#2
1,4-Dioxane
Concen: 0.352 ng
RT: 3.326 min Scan# 34
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion: 88 Resp: 2872

Ion	Ratio	Lower	Upper
88	100		
43	30.8	69.7	104.5#
58	82.2	83.8	125.8#



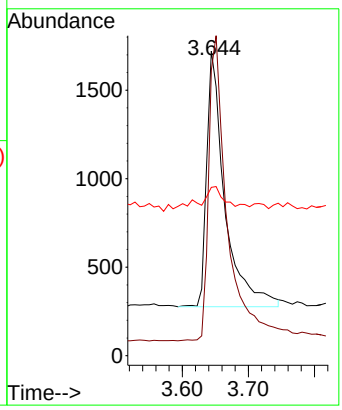


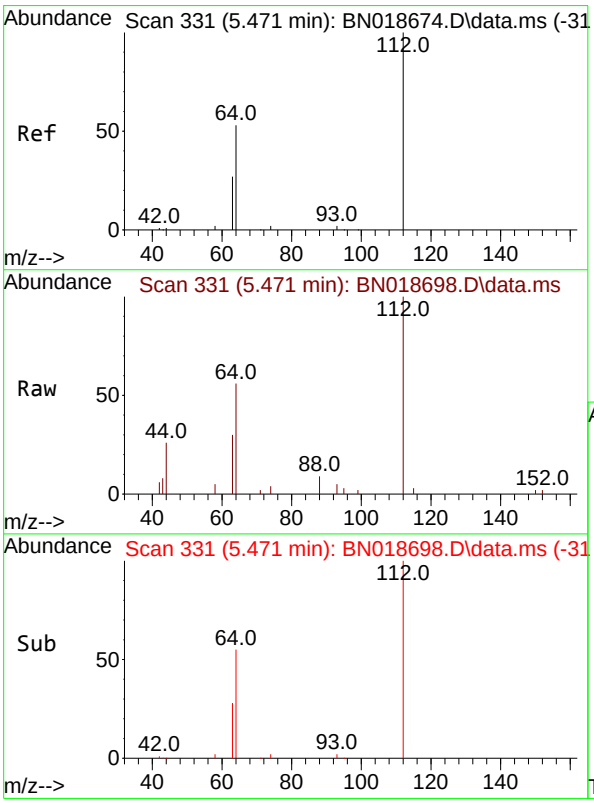
#3
n-Nitrosodimethylamine
Concen: 0.338 ng
RT: 3.644 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion: 42 Resp: 2733

Ion	Ratio	Lower	Upper
42	100		
74	122.7	108.6	163.0
44	15.0	5.8	8.8#

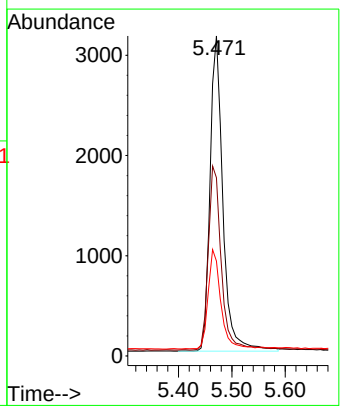


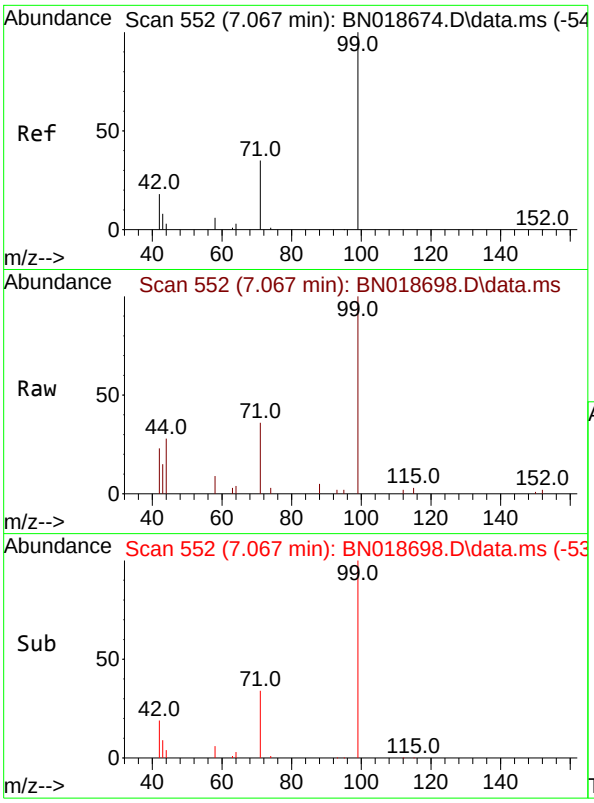


#4
2-Fluorophenol
Concen: 0.327 ng
RT: 5.471 min Scan# 331
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:112 Resp: 5265

Ion	Ratio	Lower	Upper
112	100		
64	59.4	48.0	72.0
63	31.5	25.3	37.9



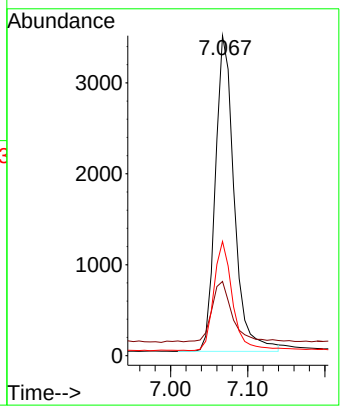


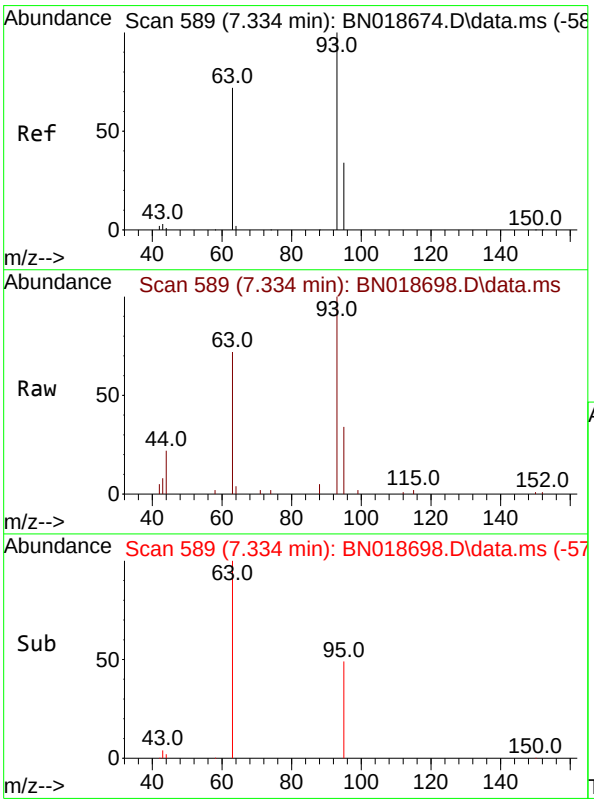
#5
Phenol-d6
Concen: 0.318 ng
RT: 7.067 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion: 99 Resp: 5888

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.3	24.5
71	34.1	26.8	40.2

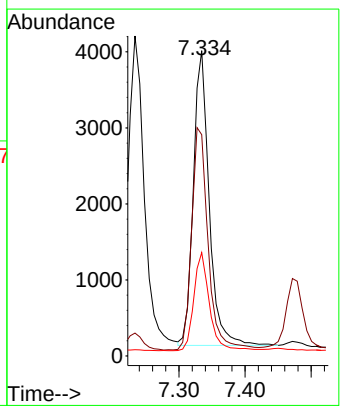


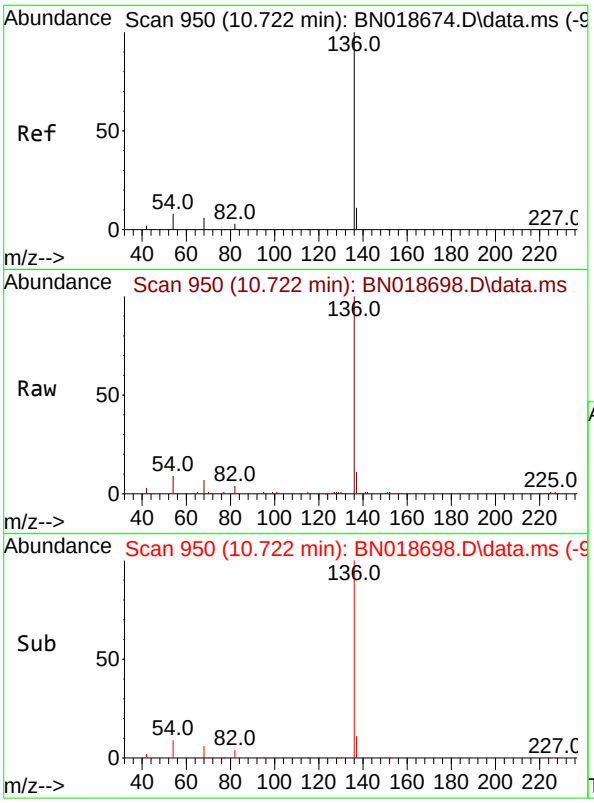


#6
bis(2-Chloroethyl)ether
Concen: 0.340 ng
RT: 7.334 min Scan# 589
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion: 93 Resp: 6458

Ion	Ratio	Lower	Upper
93	100		
63	78.7	61.7	92.5
95	32.9	26.2	39.4



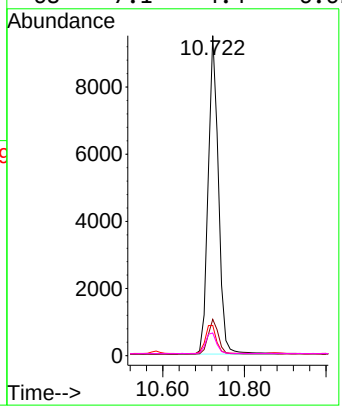


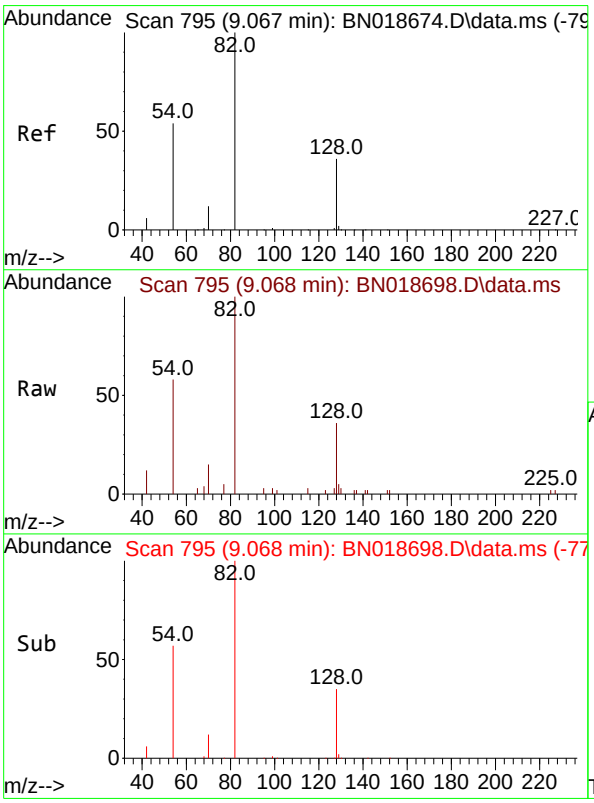
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.722 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:136 Resp: 16547

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.8	13.2
54	9.5	5.0	7.6#
68	7.1	4.4	6.6#

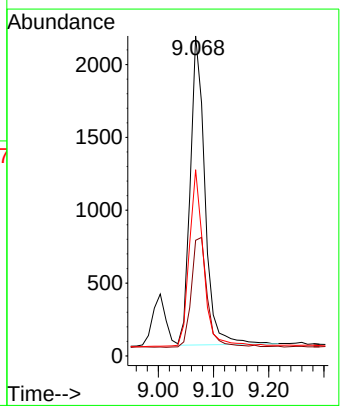


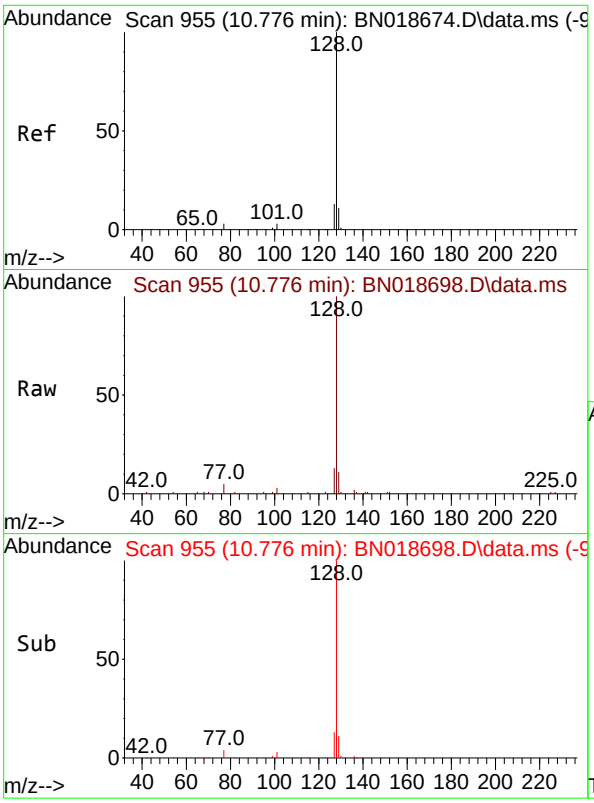


#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 9.068 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion: 82 Resp: 3904

Ion	Ratio	Lower	Upper
82	100		
128	36.2	33.7	50.5
54	58.2	36.6	55.0#



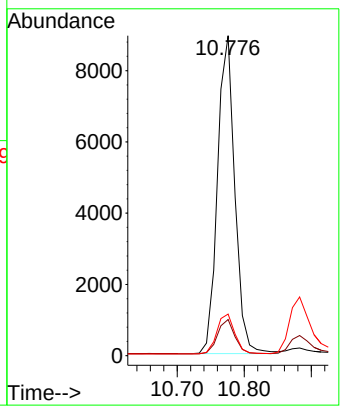


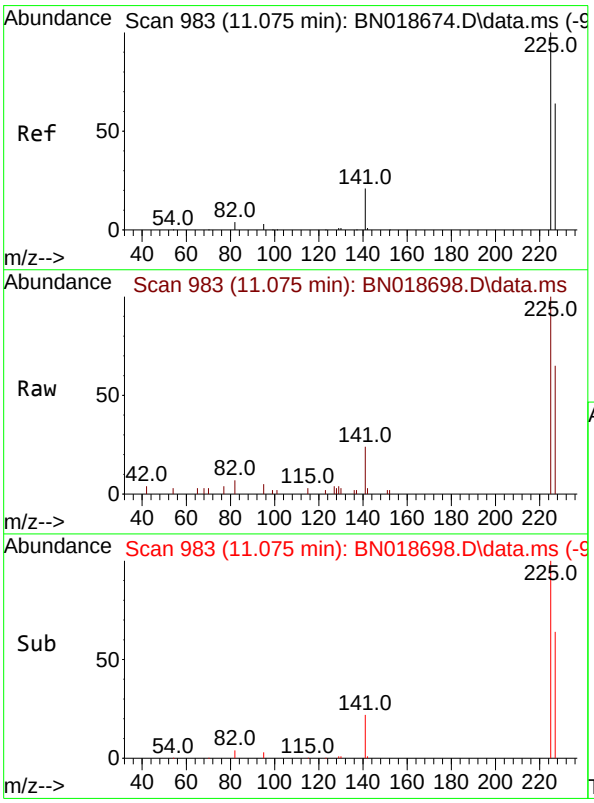
#9
Naphthalene
Concen: 0.335 ng
RT: 10.776 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:128 Resp: 16005

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.7	13.1
127	13.0	10.4	15.6

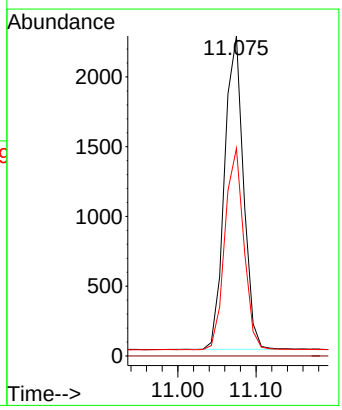


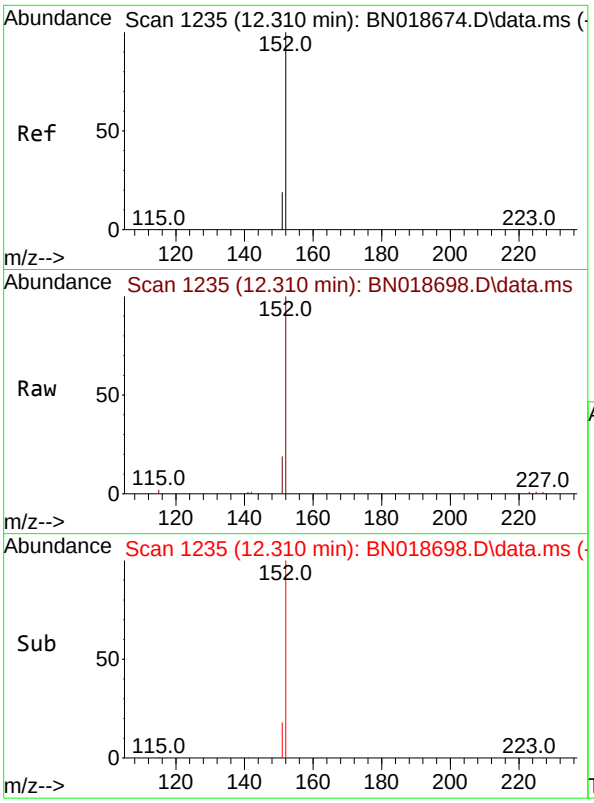


#10
Hexachlorobutadiene
Concen: 0.328 ng
RT: 11.075 min Scan# 983
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:225 Resp: 3767

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.0	76.6



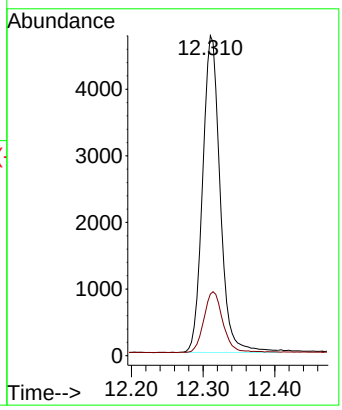


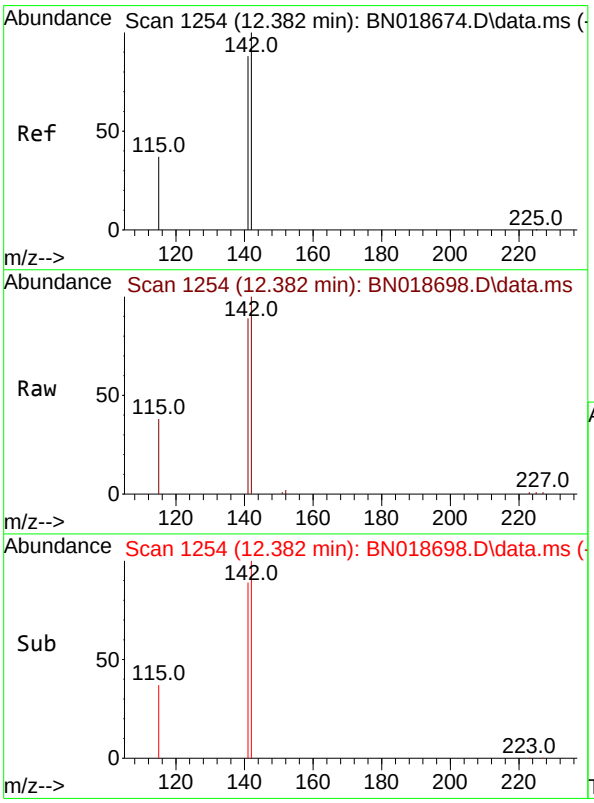
#11
2-Methylnaphthalene-d10
Concen: 0.325 ng
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:152 Resp: 8112

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2

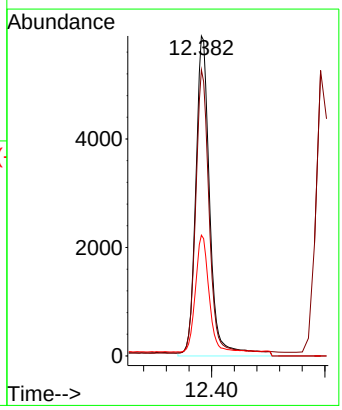


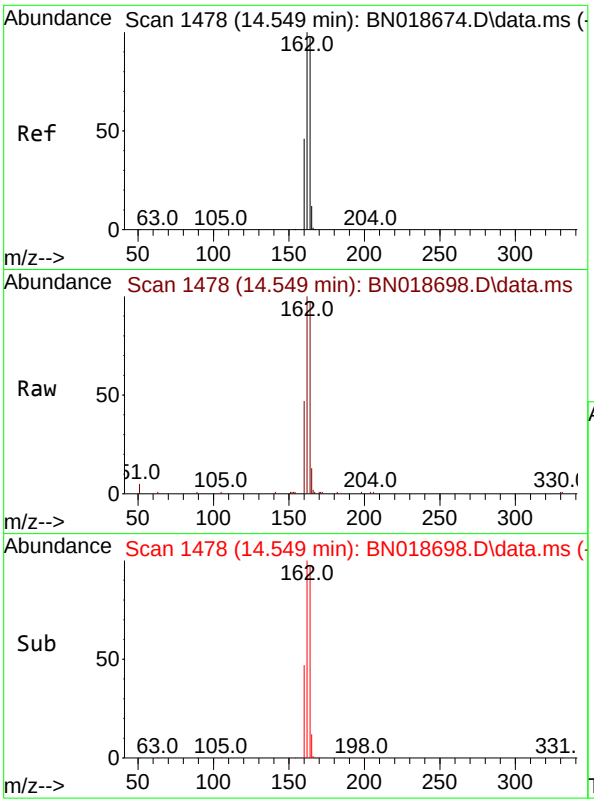


#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 12.382 min Scan# 1254
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:142 Resp: 10601

Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.0	105.0
115	37.8	27.8	41.8



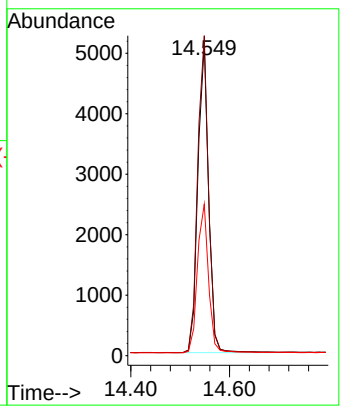


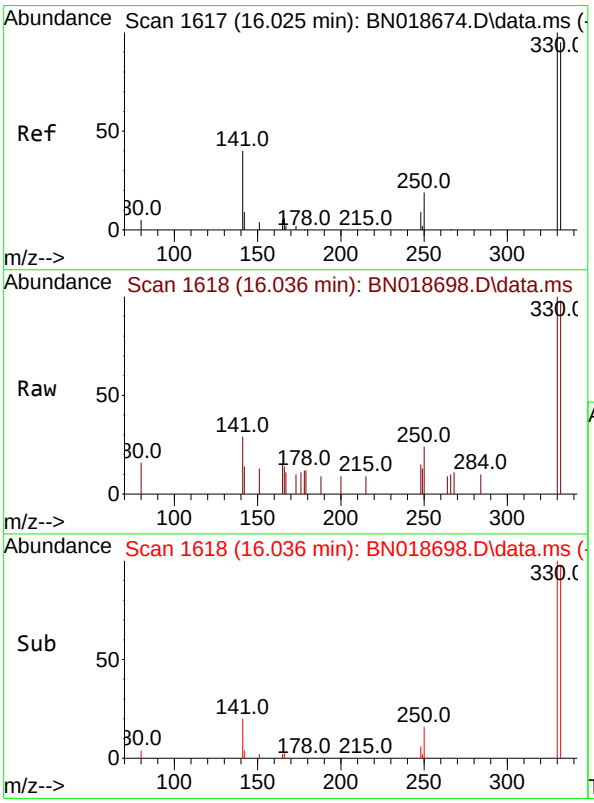
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.549 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:164 Resp: 7708

Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.2	120.2
160	48.6	36.9	55.3

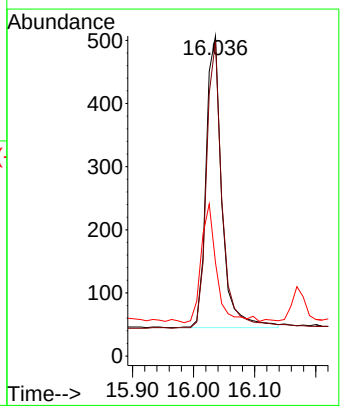


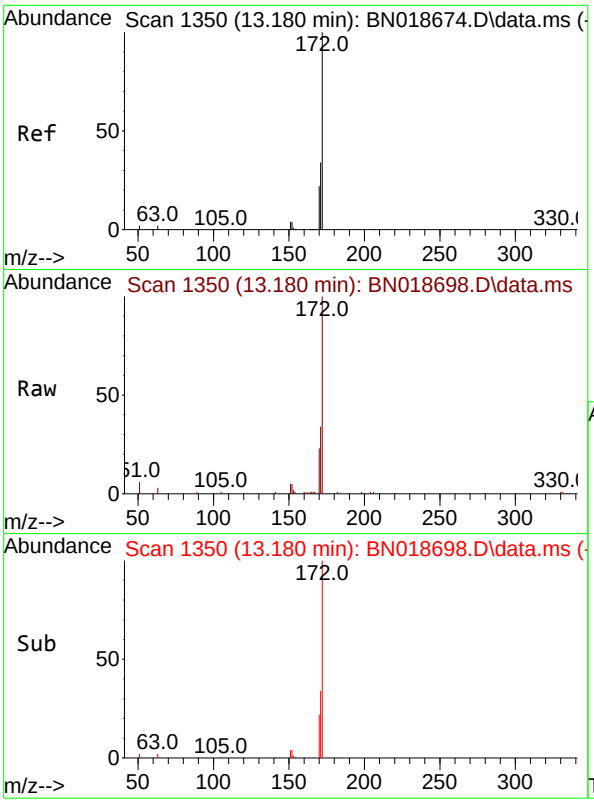


#14
2,4,6-Tribromophenol
Concen: 0.276 ng
RT: 16.036 min Scan# 1618
Delta R.T. 0.011 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:330 Resp: 832

Ion	Ratio	Lower	Upper
330	100		
332	97.7	0.0	0.0#
141	40.6	21.3	31.9#



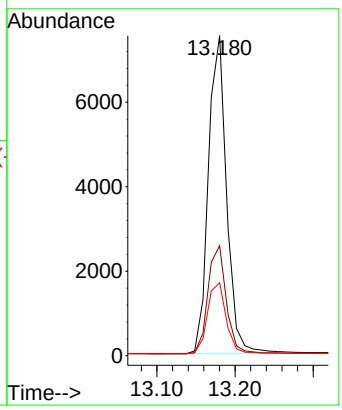


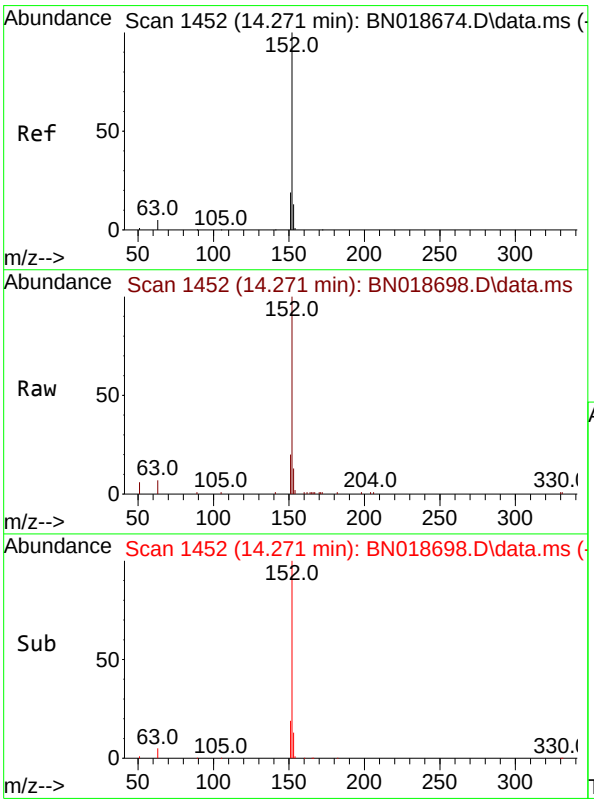
#15
2-Fluorobiphenyl
Concen: 0.334 ng
RT: 13.180 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:172 Resp: 12207

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.4	41.0
170	22.8	18.4	27.6

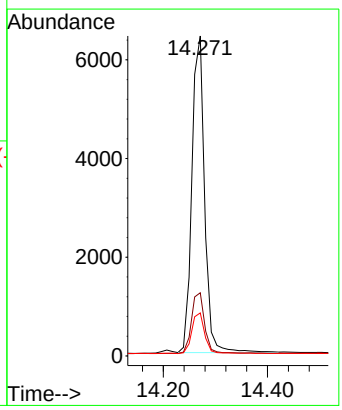


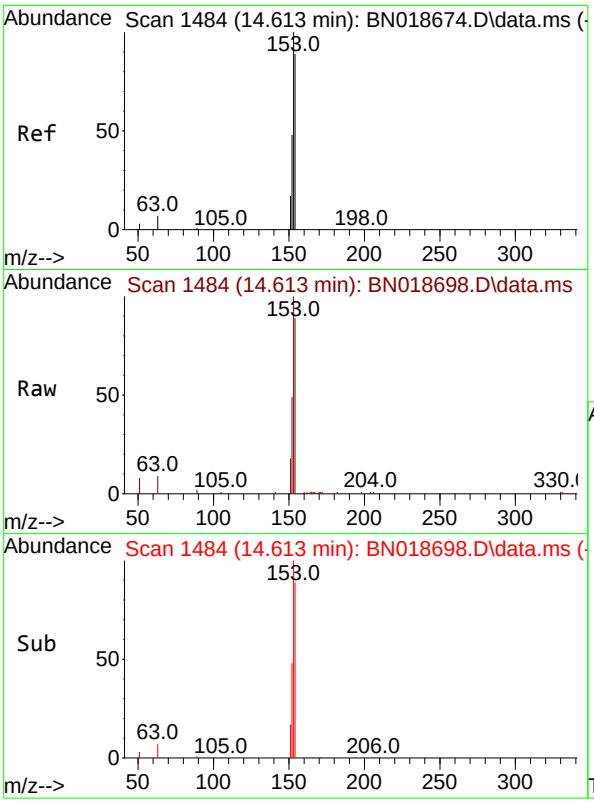


#16
Acenaphthylene
Concen: 0.298 ng
RT: 14.271 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:152 Resp: 10895

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	13.4	10.5	15.7



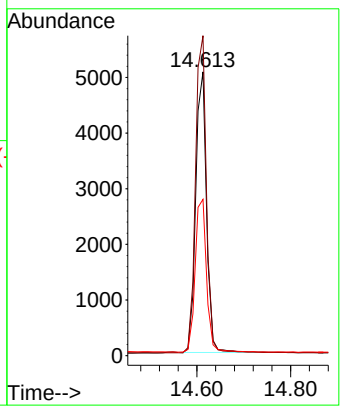


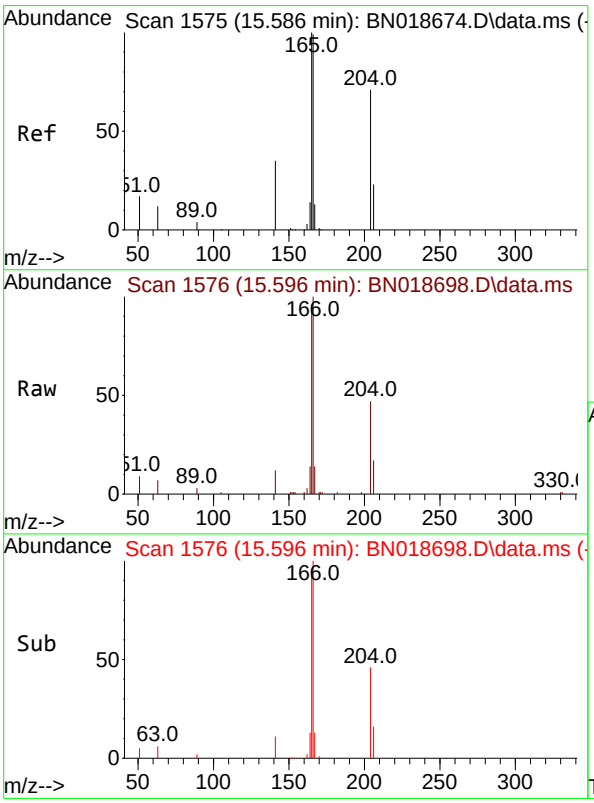
#17
Acenaphthene
Concen: 0.319 ng
RT: 14.613 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:154 Resp: 8062

Ion	Ratio	Lower	Upper
154	100		
153	114.6	90.9	136.3
152	57.9	45.0	67.4

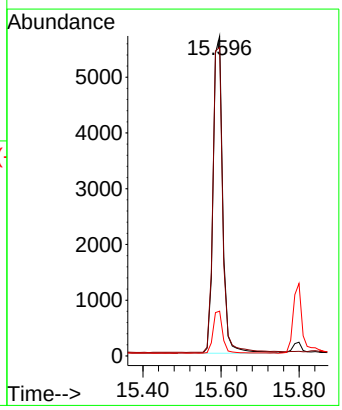


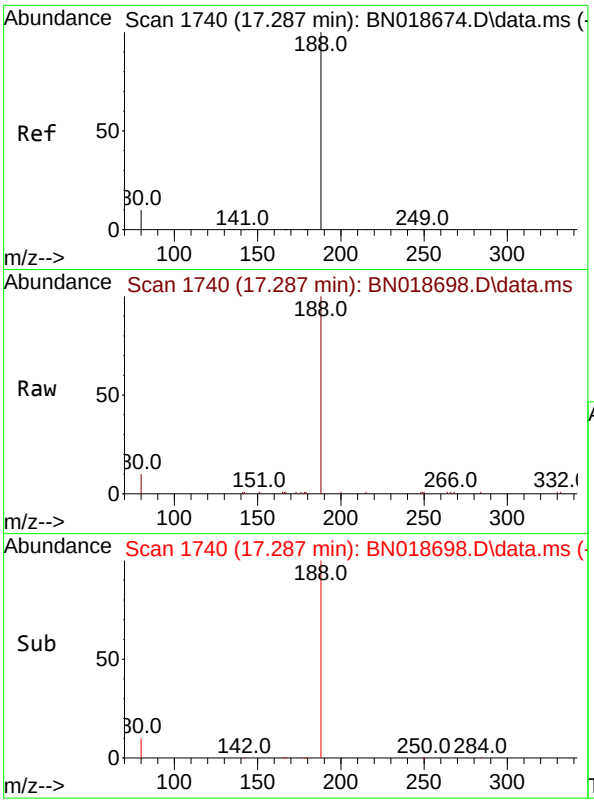


#18
Fluorene
Concen: 0.318 ng
RT: 15.596 min Scan# 1576
Delta R.T. 0.011 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:166 Resp: 9672

Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.8	116.6
167	13.4	10.9	16.3



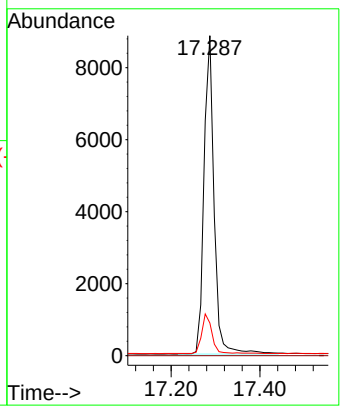


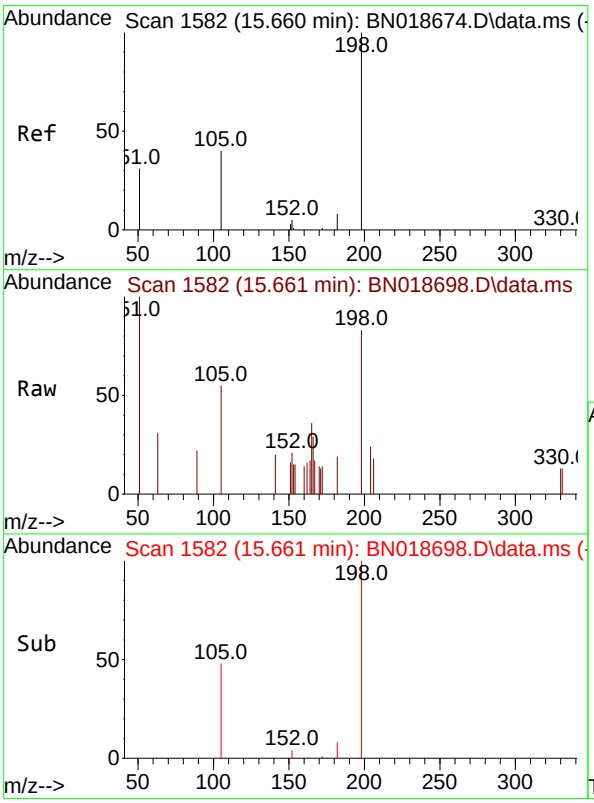
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:188 Resp: 13887

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	7.0	10.4

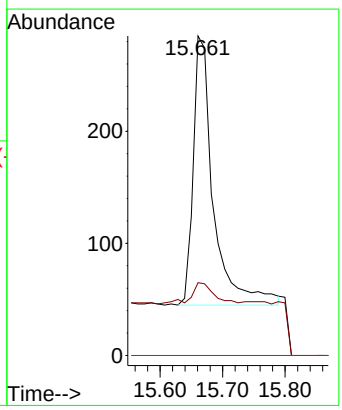


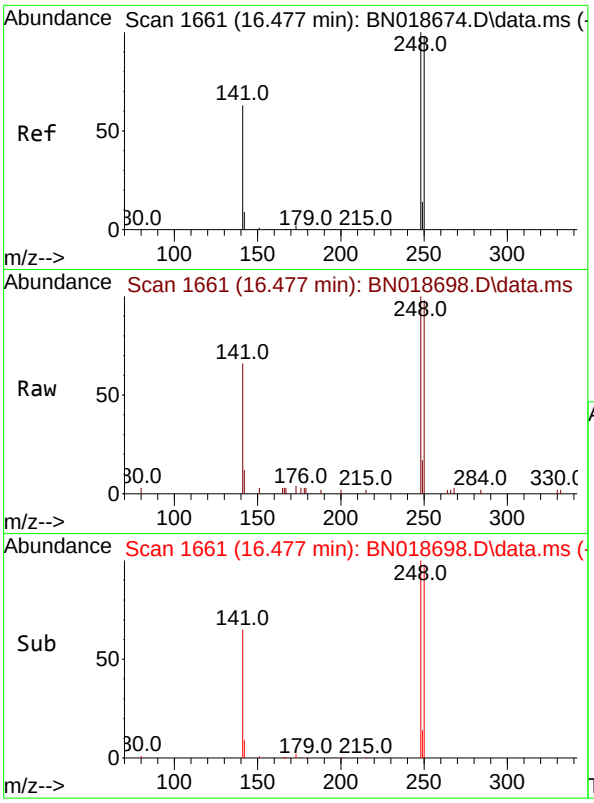


#20
4,6-Dinitro-2-methylphenol
Concen: 0.326 ng
RT: 15.661 min Scan# 1582
Delta R.T. 0.001 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:198 Resp: 538

Ion	Ratio	Lower	Upper
198	100		
182	22.8	15.5	23.3
77	0.0	0.0	0.0



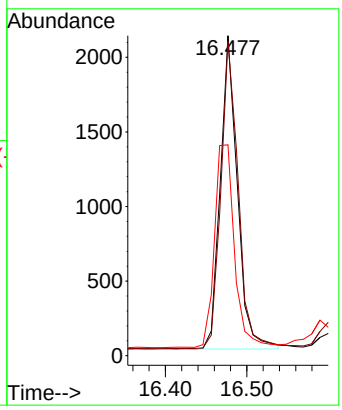


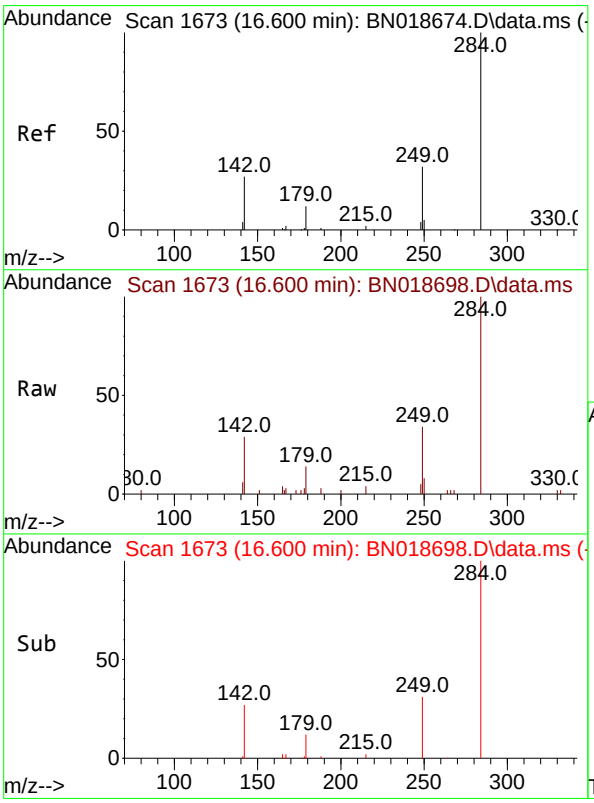
#21
4-Bromophenyl-phenylether
Concen: 0.310 ng
RT: 16.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:248 Resp: 3059

Ion	Ratio	Lower	Upper
248	100		
250	98.3	74.4	111.6
141	65.9	43.7	65.5#

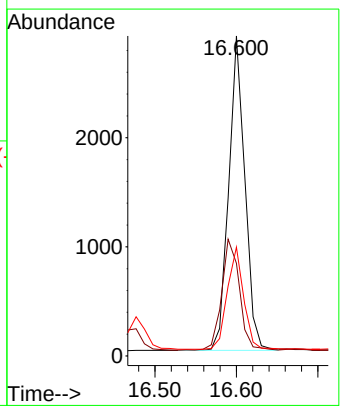


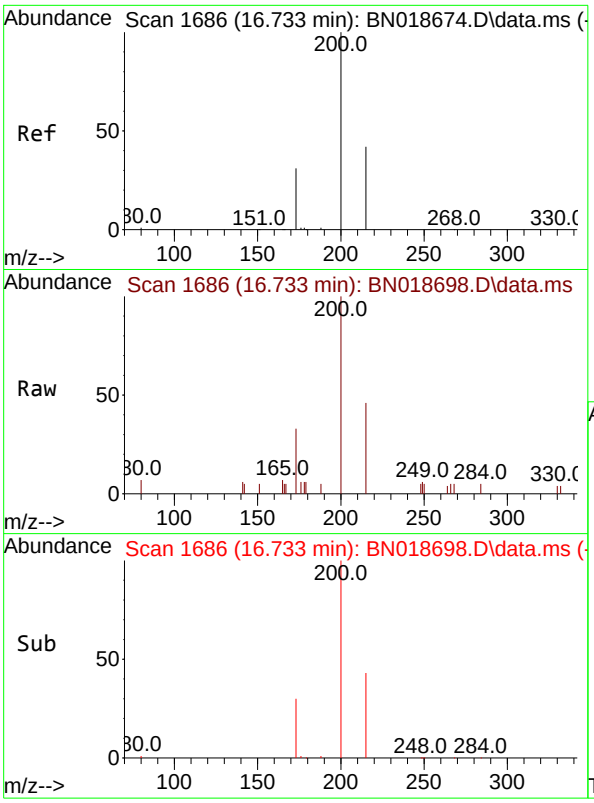


#22
Hexachlorobenzene
Concen: 0.323 ng
RT: 16.600 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:284 Resp: 3985

Ion	Ratio	Lower	Upper
284	100		
142	38.5	21.6	32.4#
249	32.9	23.5	35.3



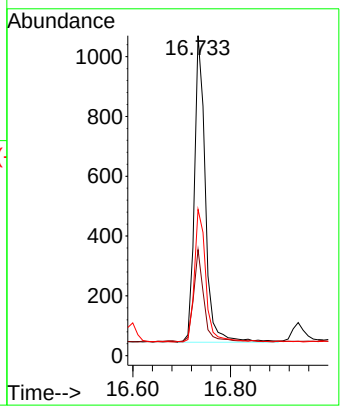


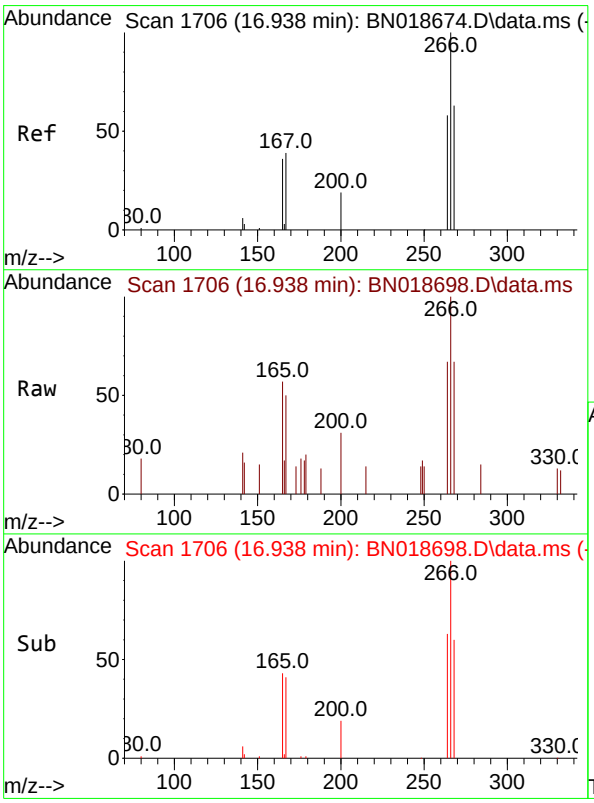
#23
Atrazine
Concen: 0.293 ng
RT: 16.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:200 Resp: 1596

Ion	Ratio	Lower	Upper
200	100		
173	33.2	20.3	30.5#
215	45.7	40.4	60.6

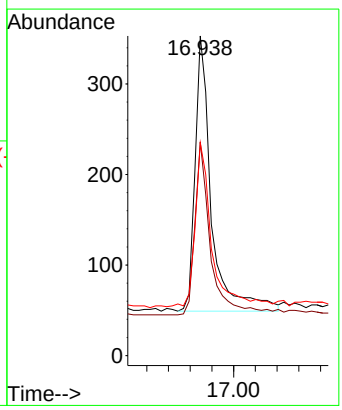


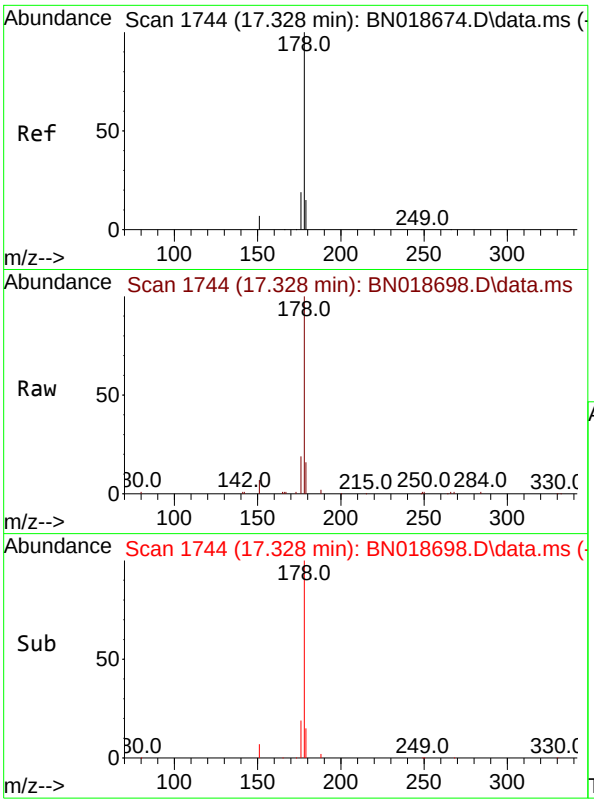


#24
Pentachlorophenol
Concen: 0.318 ng
RT: 16.938 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:266 Resp: 638

Ion	Ratio	Lower	Upper
266	100		
264	60.7	49.5	74.3
268	58.3	50.6	76.0



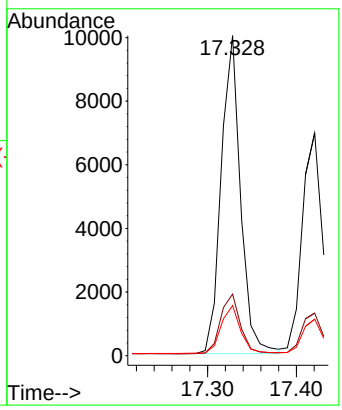


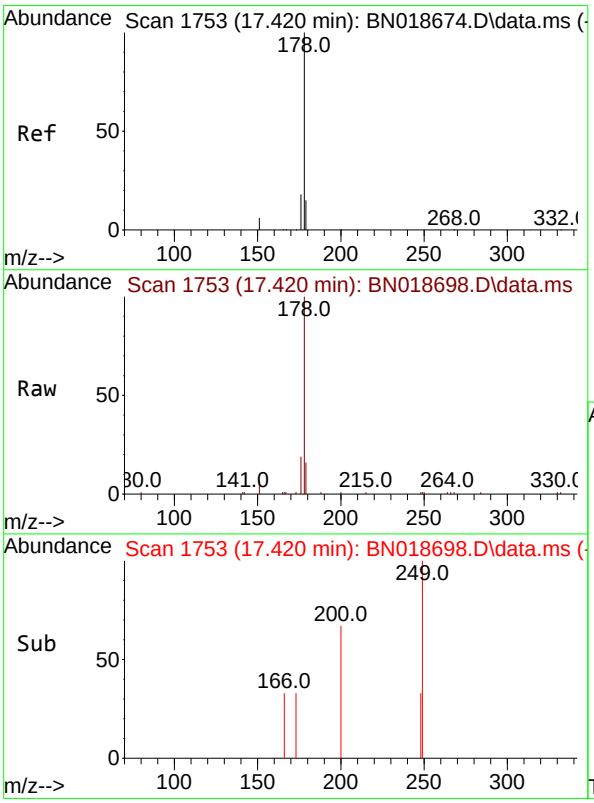
#25
Phenanthrene
Concen: 0.325 ng
RT: 17.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:178 Resp: 15126

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.3	12.3	18.5

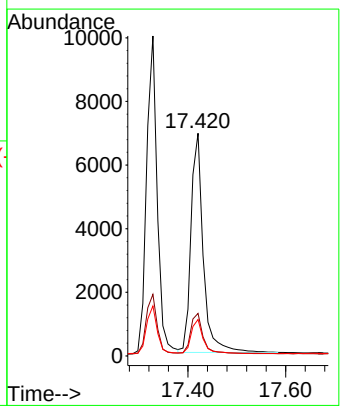


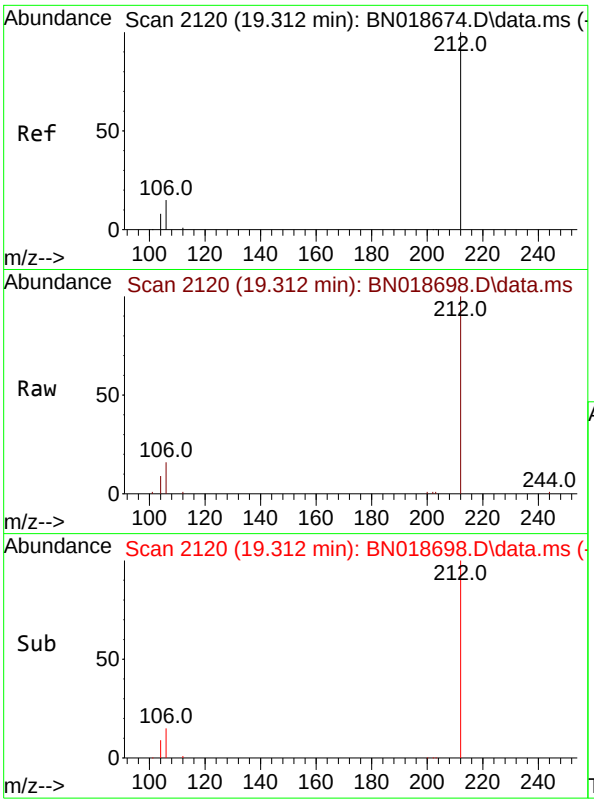


#26
Anthracene
Concen: 0.305 ng
RT: 17.420 min Scan# 1753
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:178 Resp: 12002

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.8	22.2
179	14.9	12.2	18.4



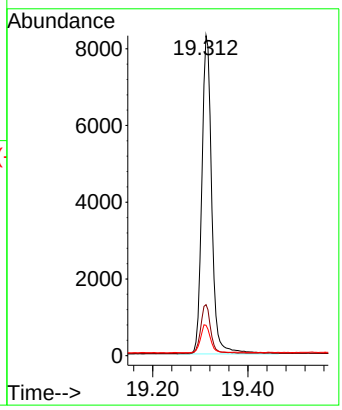


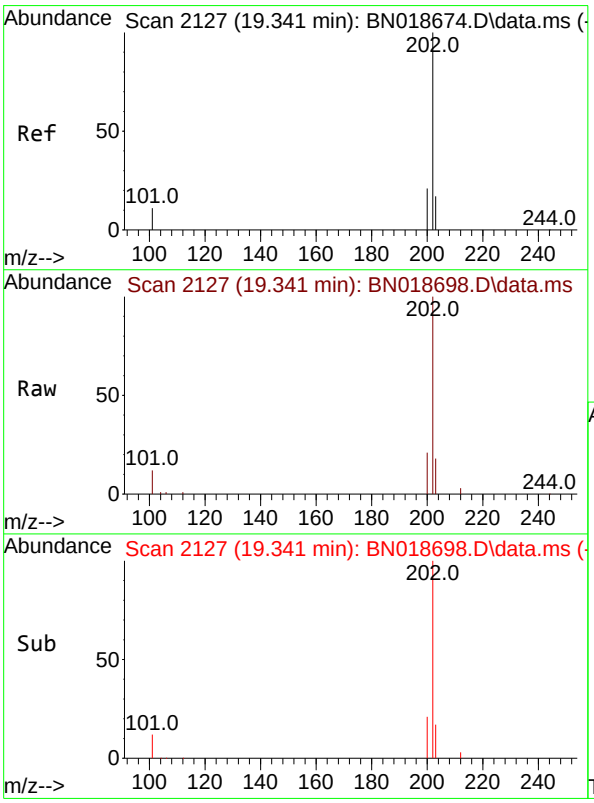
#27
Fluoranthene-d10
Concen: 0.319 ng
RT: 19.312 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:212 Resp: 12023

Ion	Ratio	Lower	Upper
212	100		
106	15.3	8.4	12.6#
104	8.6	4.5	6.7#

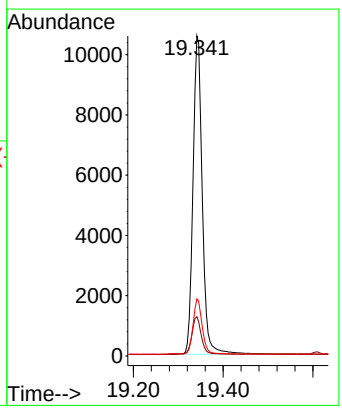


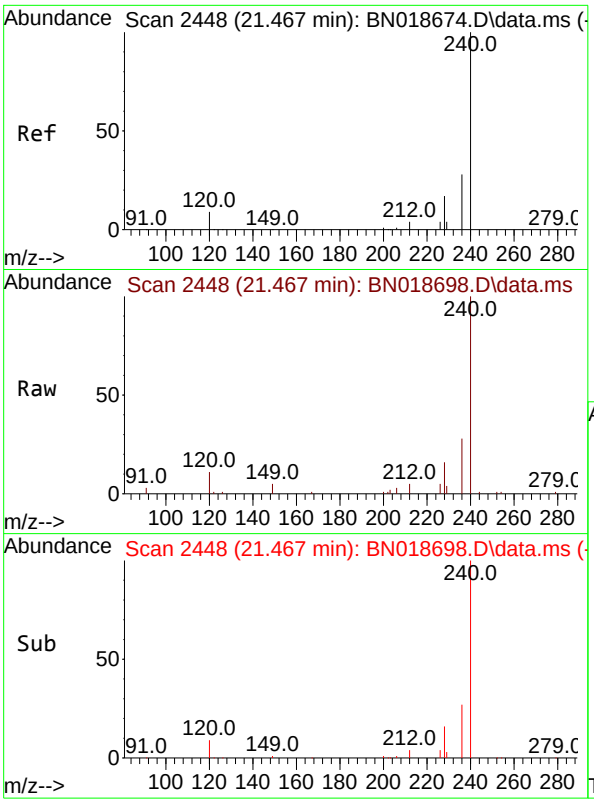


#28
Fluoranthene
Concen: 0.313 ng
RT: 19.341 min Scan# 2127
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:202 Resp: 15217

Ion	Ratio	Lower	Upper
202	100		
101	12.1	7.2	10.8#
203	16.8	13.7	20.5



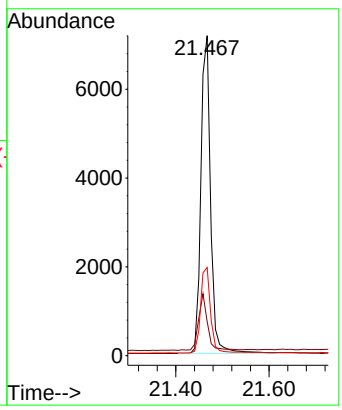


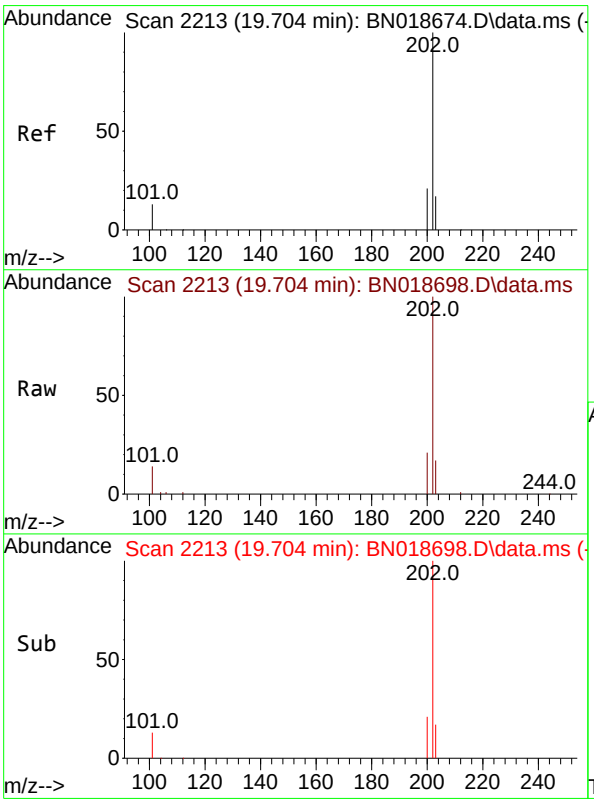
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.467 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:240 Resp: 10381

Ion	Ratio	Lower	Upper
240	100		
120	10.6	6.0	9.0#
236	27.5	21.4	32.2

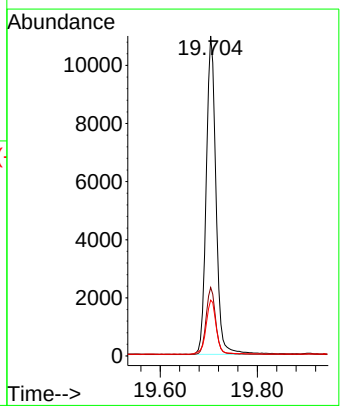


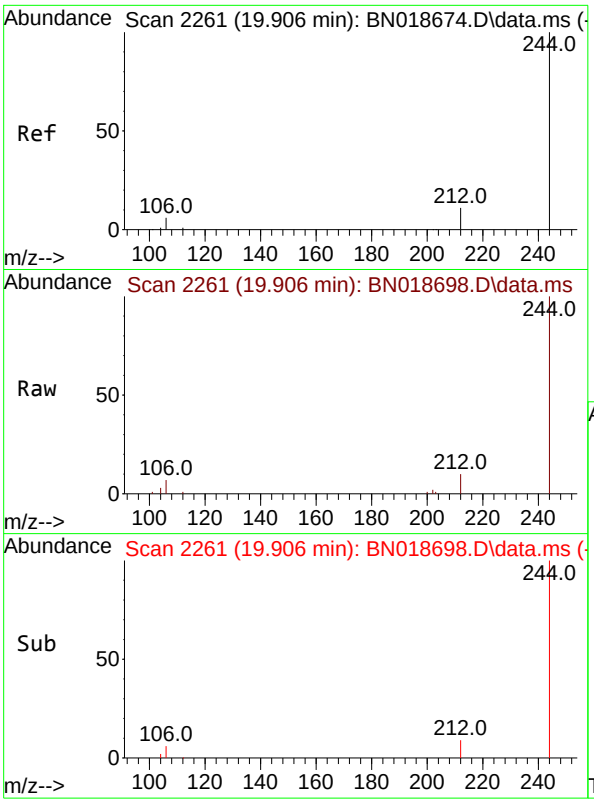


#30
Pyrene
Concen: 0.331 ng
RT: 19.704 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:202 Resp: 15336

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	25.0
203	17.7	14.1	21.1



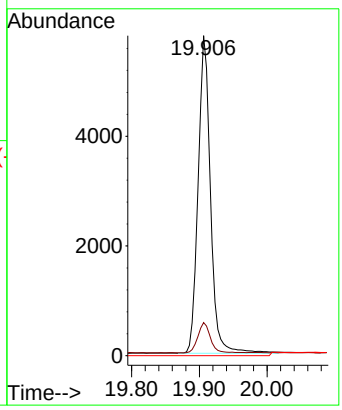


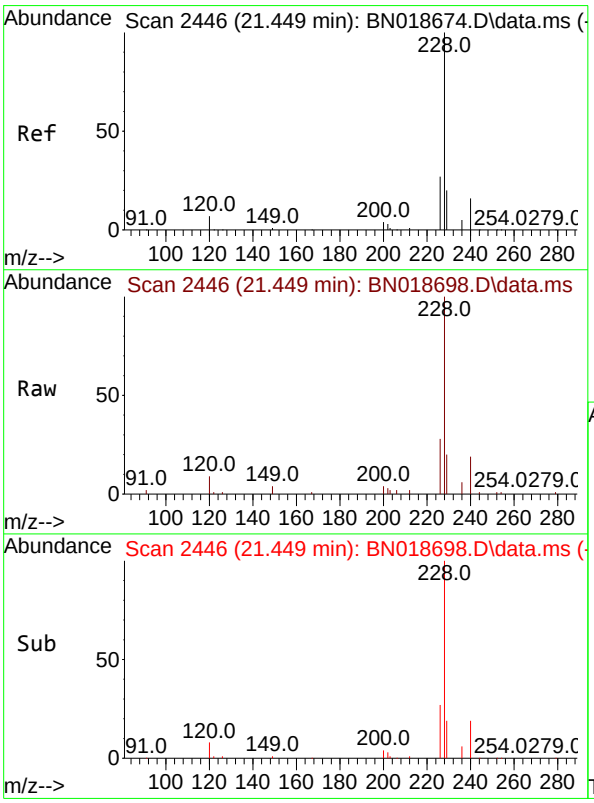
#31
Terphenyl-d14
Concen: 0.337 ng
RT: 19.906 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:244 Resp: 7587

Ion	Ratio	Lower	Upper
244	100		
212	10.4	6.2	9.2#
122	0.0	7.9	11.9#

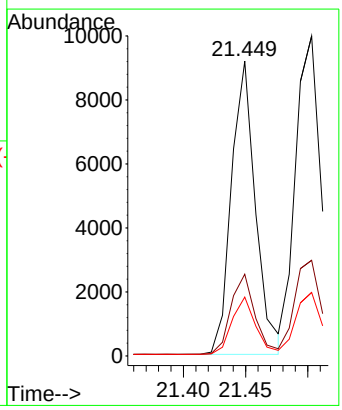


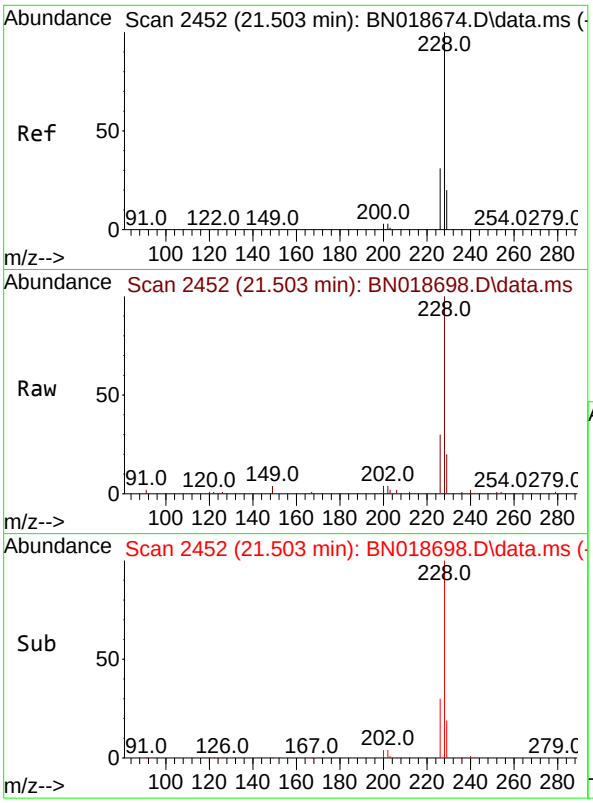


#32
Benzo(a)anthracene
Concen: 0.314 ng
RT: 21.449 min Scan# 2446
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:228 Resp: 12370

Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.3	31.9
229	20.0	15.9	23.9



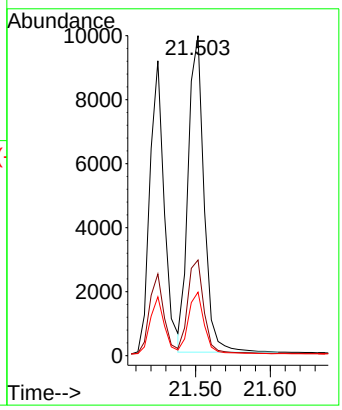


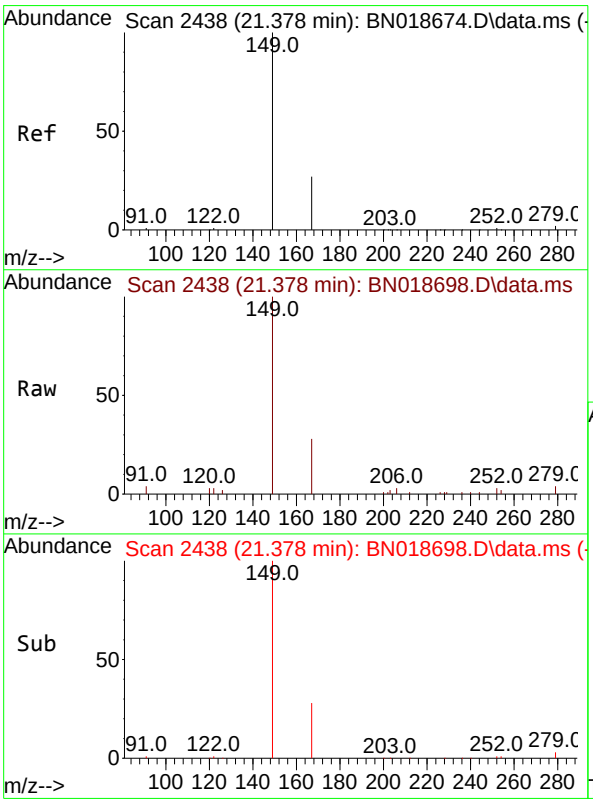
#33
Chrysene
Concen: 0.332 ng
RT: 21.503 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:228 Resp: 14584

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.2	36.4
229	19.9	15.5	23.3

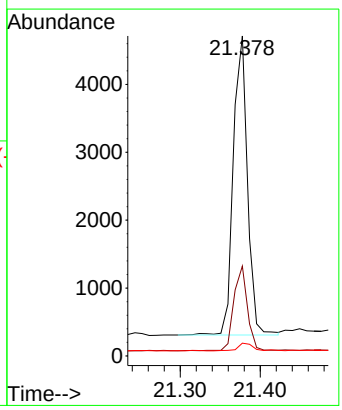


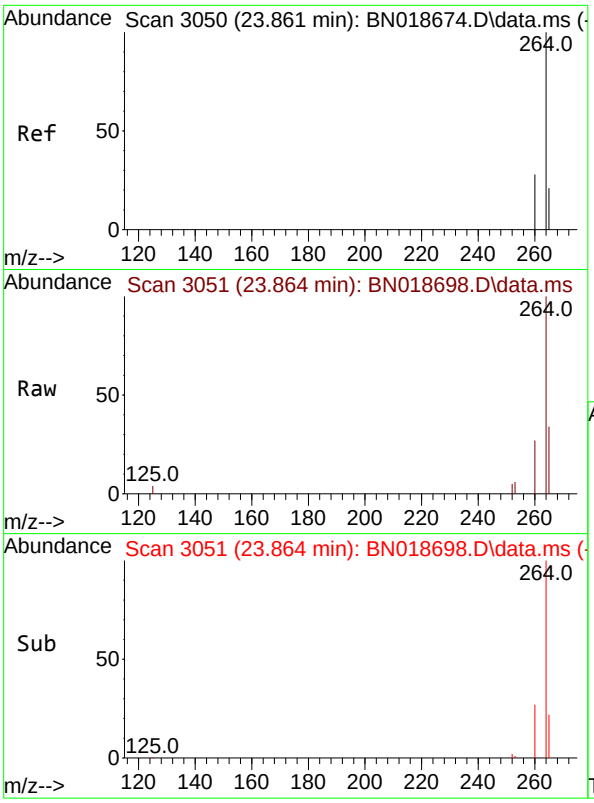


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.338 ng
RT: 21.378 min Scan# 2438
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:149 Resp: 5400

Ion	Ratio	Lower	Upper
149	100		
167	27.3	23.7	35.5
279	2.9	3.6	5.4#



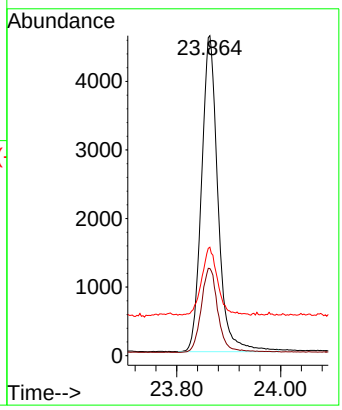


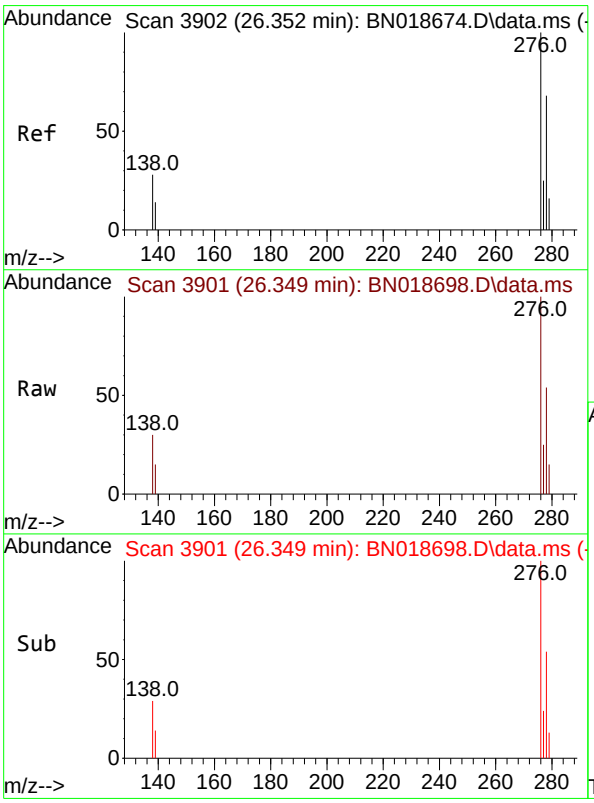
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.864 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:264 Resp: 10101

Ion	Ratio	Lower	Upper
264	100		
260	27.2	20.2	30.4
265	33.9	18.2	27.2#

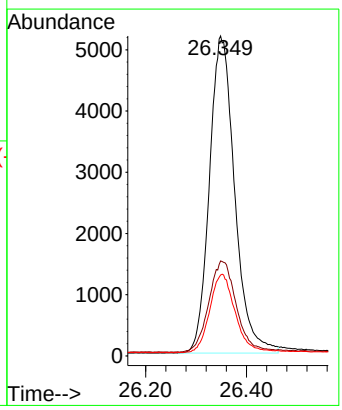


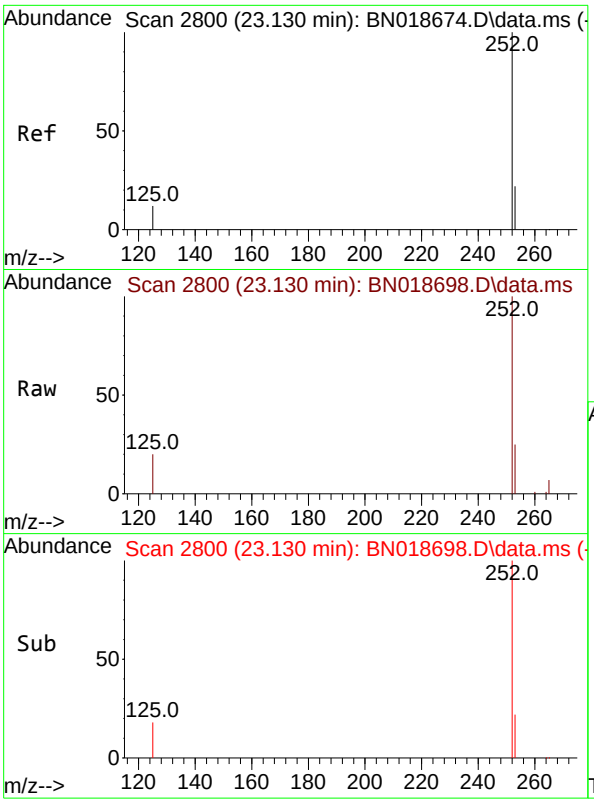


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.338 ng
RT: 26.349 min Scan# 3901
Delta R.T. -0.003 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:276 Resp: 18014

Ion	Ratio	Lower	Upper
276	100		
138	31.2	14.9	22.3#
277	24.9	19.9	29.9



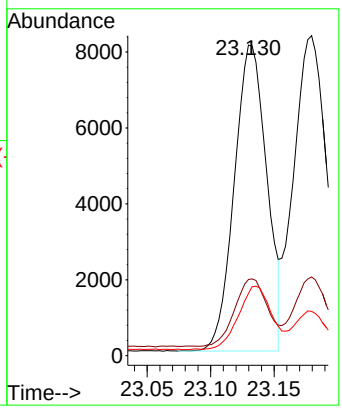


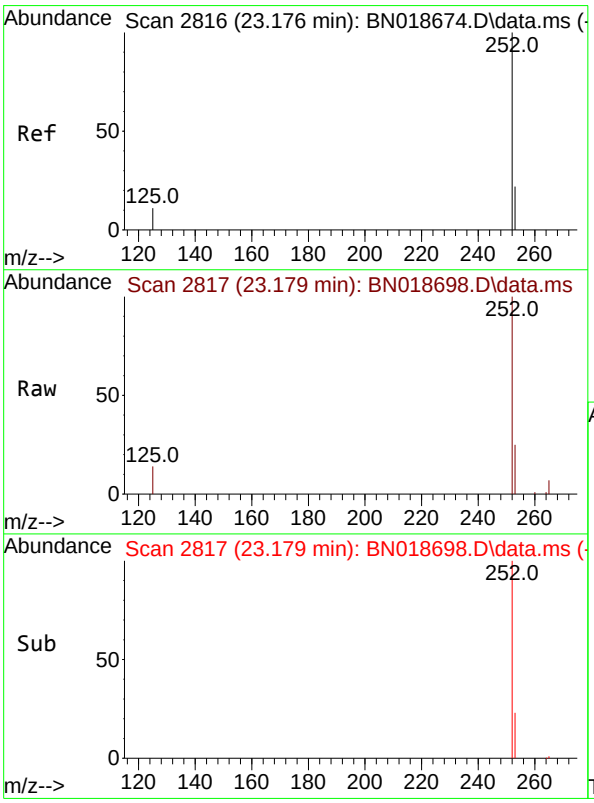
#37
Benzo(b)fluoranthene
Concen: 0.312 ng
RT: 23.130 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:252 Resp: 14310

Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.8	26.6
125	20.0	6.0	9.0#

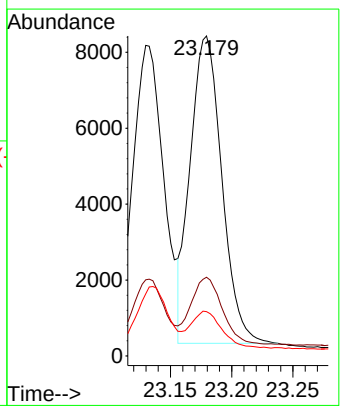


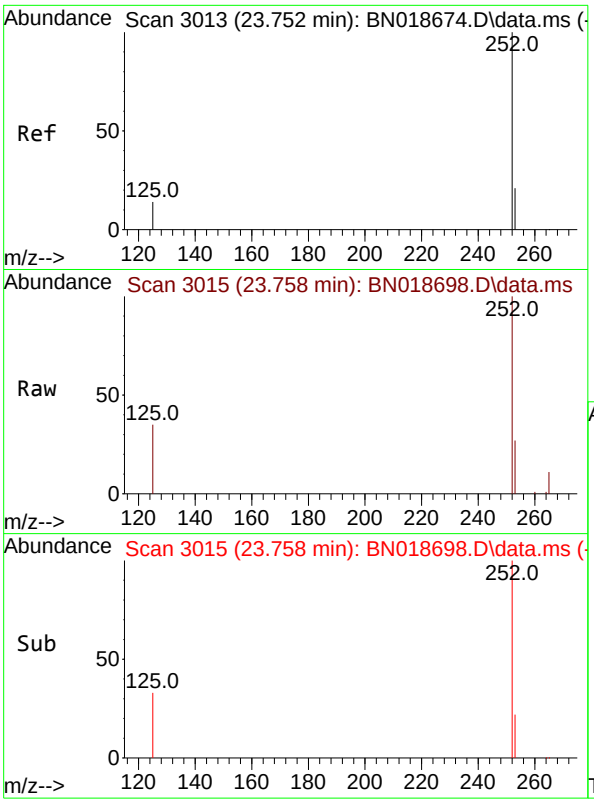


#38
Benzo(k)fluoranthene
Concen: 0.320 ng
RT: 23.179 min Scan# 2817
Delta R.T. 0.003 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:252 Resp: 14548

Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.7	26.5
125	13.9	6.2	9.2#



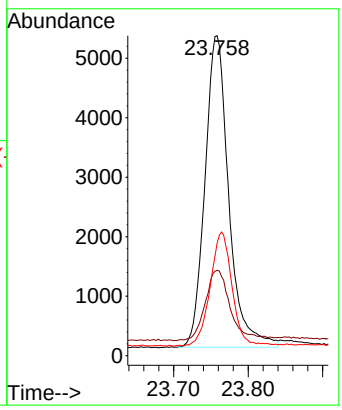


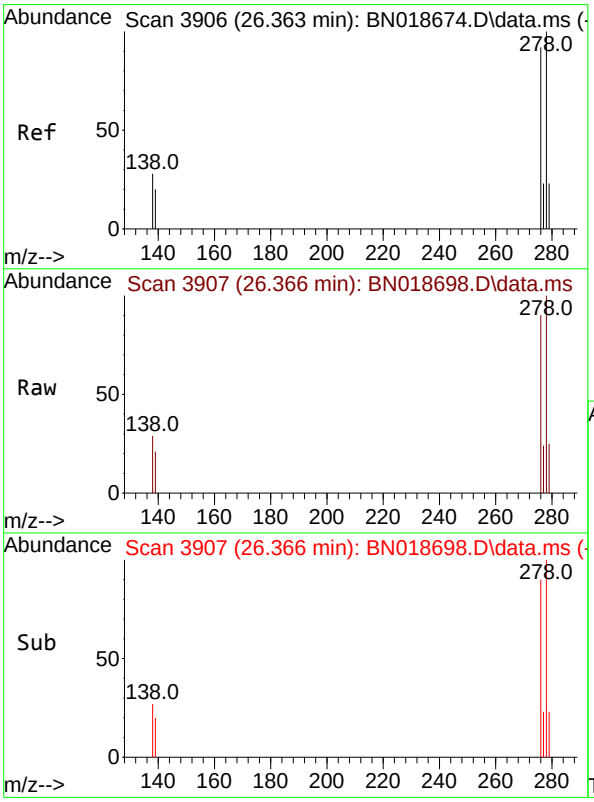
#39
Benzo(a)pyrene
Concen: 0.318 ng
RT: 23.758 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:252 Resp: 11639

Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.8	26.6#
125	35.1	7.0	10.4#

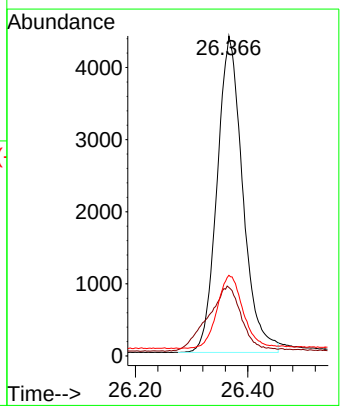


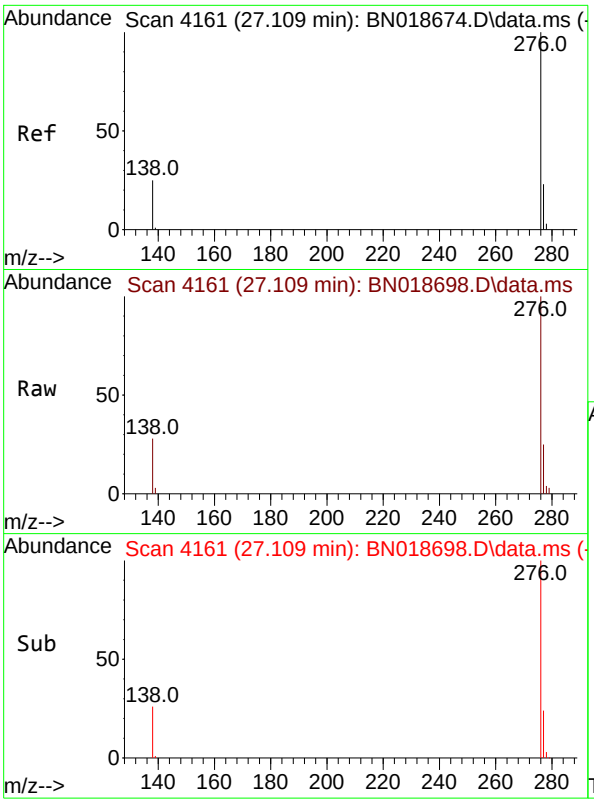


#40
Dibenzo(a,h)anthracene
Concen: 0.333 ng
RT: 26.366 min Scan# 3907
Delta R.T. 0.003 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Tgt Ion:278 Resp: 13871

Ion	Ratio	Lower	Upper
278	100		
139	21.4	10.8	16.2#
279	25.2	19.0	28.4





#41
Benzo(g,h,i)perylene
Concen: 0.317 ng
RT: 27.109 min Scan# 4
Delta R.T. 0.000 min
Lab File: BN018698.D
Acq: 23 Feb 2022 15:29

Instrument :
BNA_N
ClientSampleId :
PB142873BS

Tgt Ion:276 Resp: 14482

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.0	28.6
138	27.6	12.6	19.0#