Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082422\
Data File : BN021345.D
Acq On : 24 Aug 2022 19:47
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 25 06:28:15 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 25 06:17:49 2022
Response via : Initial Calibration

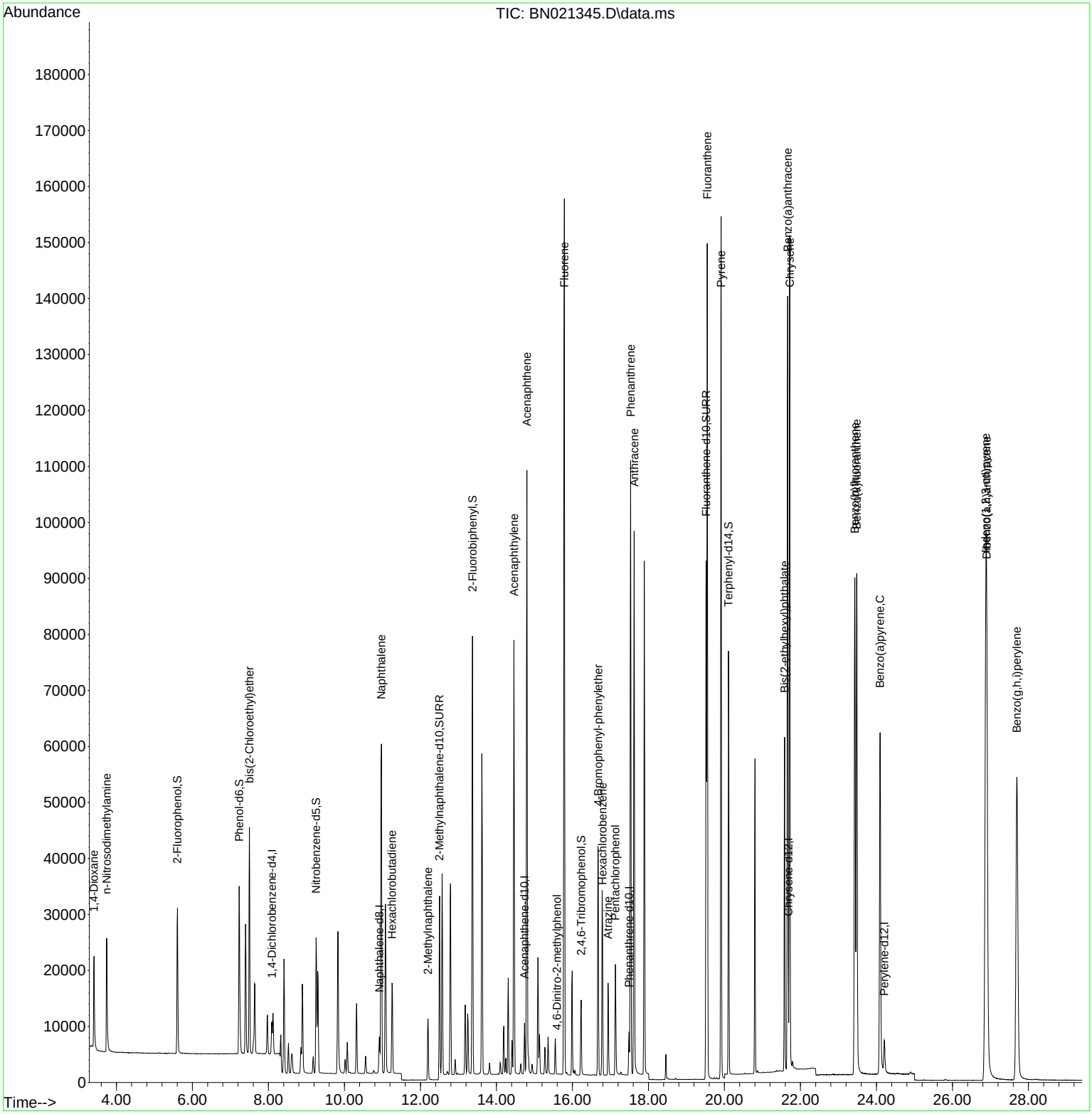
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.090	152	2892	0.400	ng		0.00
7) Naphthalene-d8	10.919	136	8422	0.400	ng		0.00
13) Acenaphthene-d10	14.739	164	4934	0.400	ng		0.00
19) Phenanthrene-d10	17.490	188	9946	0.400	ng		0.00
29) Chrysene-d12	21.682	240	10074	0.400	ng		0.00
35) Perylene-d12	24.205	264	8490	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.606	112	22350	3.097	ng		0.00
5) Phenol-d6	7.231	99	28879	3.430	ng		0.00
8) Nitrobenzene-d5	9.254	82	19861	3.187	ng		0.00
11) 2-Methylnaphthalene-d10	12.501	152	47624	3.248	ng		0.00
14) 2,4,6-Tribromophenol	16.229	330	7293	4.521	ng		0.00
15) 2-Fluorobiphenyl	13.371	172	68295	3.480	ng		0.00
27) Fluoranthene-d10	19.518	212	95800	3.547	ng		0.00
31) Terphenyl-d14	20.106	244	64836	2.361	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.410	88	11884	2.945	ng	#	87
3) n-Nitrosodimethylamine	3.743	42	11311	3.437	ng	#	99
6) bis(2-Chloroethyl)ether	7.498	93	29078	4.090	ng		99
9) Naphthalene	10.973	128	79989	3.141	ng		98
10) Hexachlorobutadiene	11.250	225	13877	3.042	ng	#	100
12) 2-Methylnaphthalene	12.198	142	16166	0.930	ng	#	86
16) Acenaphthylene	14.461	152	82761	3.491	ng		100
17) Acenaphthene	14.803	154	54938	3.372	ng		97
18) Fluorene	15.787	166	67083	3.237	ng		99
20) 4,6-Dinitro-2-methylph...	15.594	198	1	0.001	ng		83
21) 4-Bromophenyl-phenylether	16.680	248	22194	3.635	ng		97
22) Hexachlorobenzene	16.793	284	25255	3.670	ng		98
23) Atrazine	16.936	200	14168	3.606	ng		96
24) Pentachlorophenol	17.131	266	9013	5.818	ng		98
25) Phenanthrene	17.531	178	113902	3.441	ng		100
26) Anthracene	17.624	178	99683	3.605	ng		100
28) Fluoranthene	19.548	202	130953	3.784	ng		100
30) Pyrene	19.910	202	153237	2.953	ng		94
32) Benzo(a)anthracene	21.664	228	120678	3.682	ng		100
33) Chrysene	21.718	228	127533	3.131	ng		99
34) Bis(2-ethylhexyl)phtha...	21.583	149	54161	2.419	ng		100
36) Indeno(1,2,3-cd)pyrene	26.875	276	145048	3.863	ng		99
37) Benzo(b)fluoranthene	23.431	252	121022	3.417	ng	#	93
38) Benzo(k)fluoranthene	23.480	252	125571	3.514	ng		95
39) Benzo(a)pyrene	24.094	252	100694	3.409	ng	#	89
40) Dibenzo(a,h)anthracene	26.901	278	118939	4.096	ng		93
41) Benzo(g,h,i)perylene	27.693	276	124002	3.674	ng		98

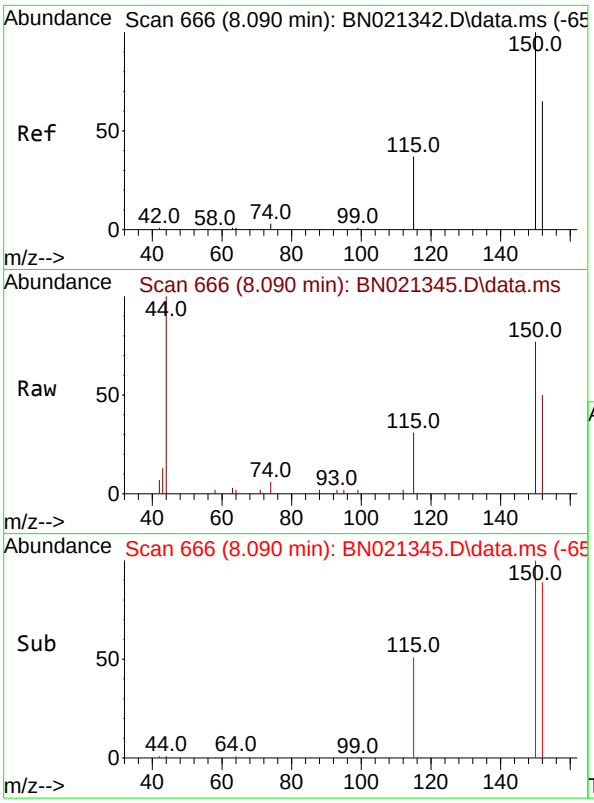
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082422\
Data File : BN021345.D
Acq On : 24 Aug 2022 19:47
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 25 06:28:15 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 25 06:17:49 2022
Response via : Initial Calibration



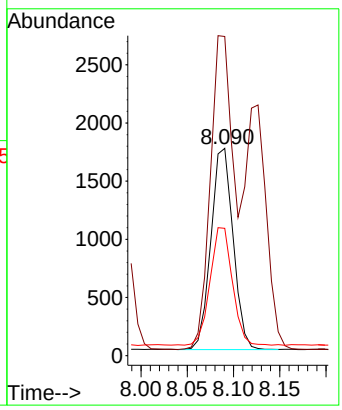


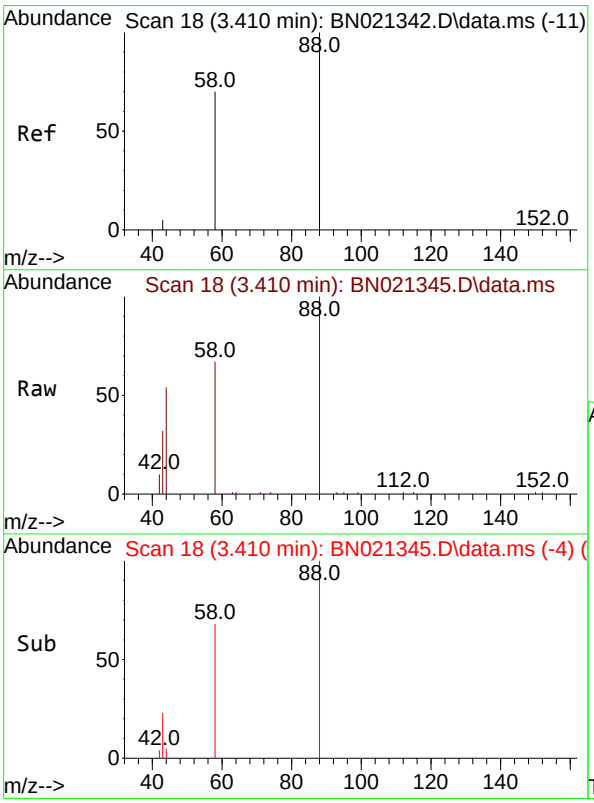
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.090 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2892

Ion	Ratio	Lower	Upper
152	100		
150	154.0	121.4	182.0
115	61.4	48.6	72.8

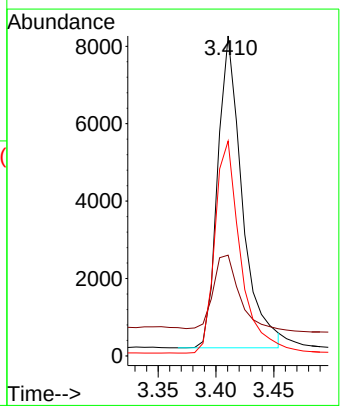


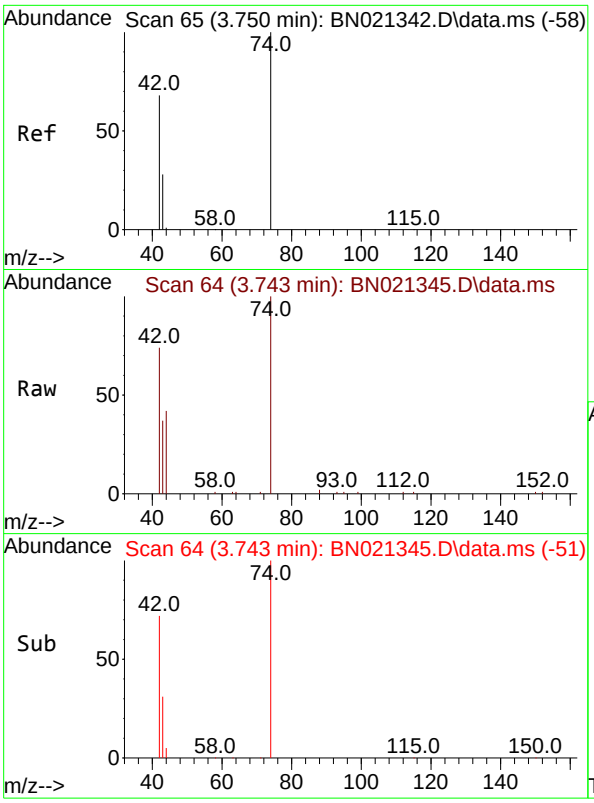


#2
1,4-Dioxane
Concen: 2.945 ng
RT: 3.410 min Scan# 18
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion: 88 Resp: 11884

Ion	Ratio	Lower	Upper
88	100		
43	24.3	35.8	53.8#
58	70.4	57.1	85.7



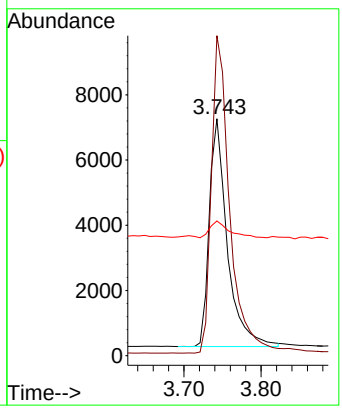


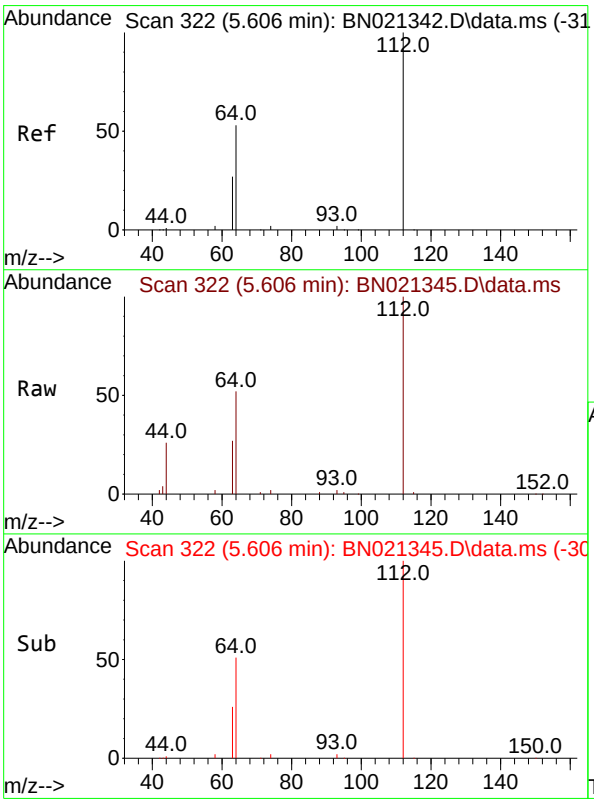
#3
n-Nitrosodimethylamine
Concen: 3.437 ng
RT: 3.743 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 11311

Ion	Ratio	Lower	Upper
42	100		
74	141.4	113.0	169.6
44	7.8	10.5	15.7#

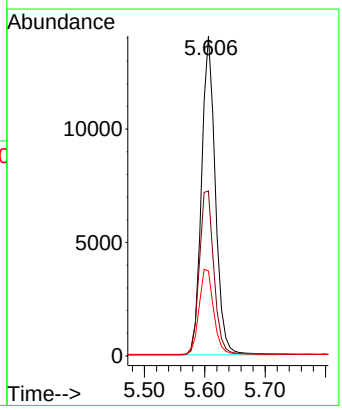


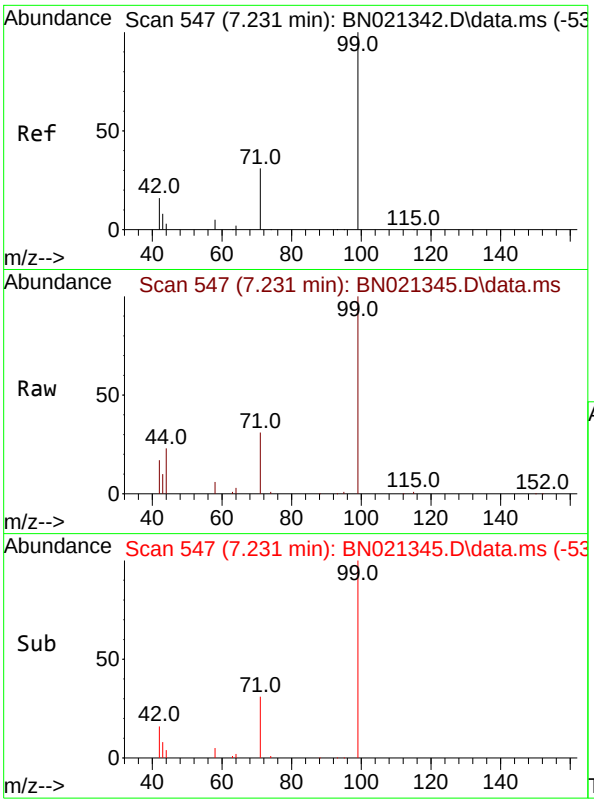


#4
2-Fluorophenol
Concen: 3.097 ng
RT: 5.606 min Scan# 322
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:112 Resp: 22350

Ion	Ratio	Lower	Upper
112	100		
64	54.4	43.5	65.3
63	28.3	22.6	34.0



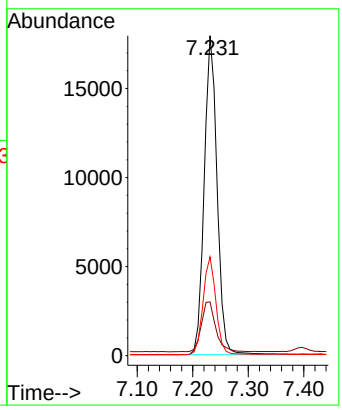


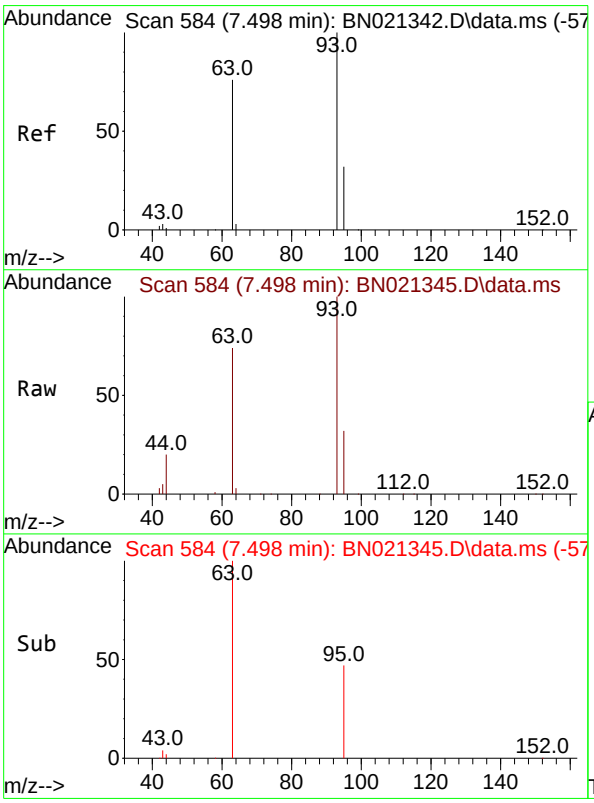
#5
Phenol-d6
Concen: 3.430 ng
RT: 7.231 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 28879

Ion	Ratio	Lower	Upper
99	100		
42	17.5	15.5	23.3
71	30.5	24.2	36.2

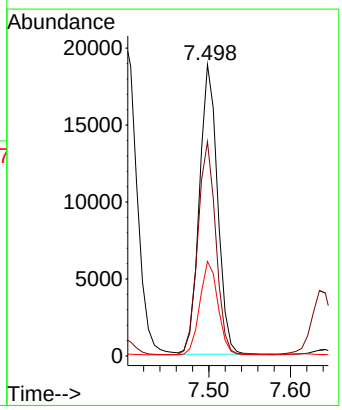


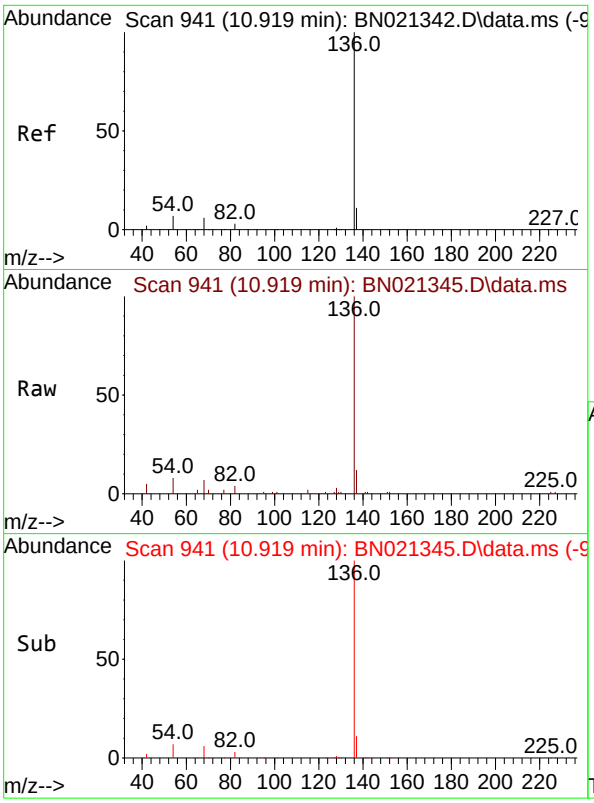


#6
bis(2-Chloroethyl)ether
Concen: 4.090 ng
RT: 7.498 min Scan# 584
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion: 93 Resp: 29078

Ion	Ratio	Lower	Upper
93	100		
63	73.1	57.8	86.8
95	32.4	25.9	38.9



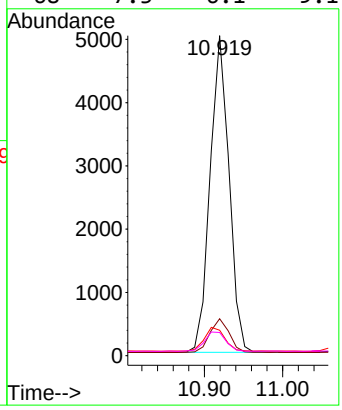


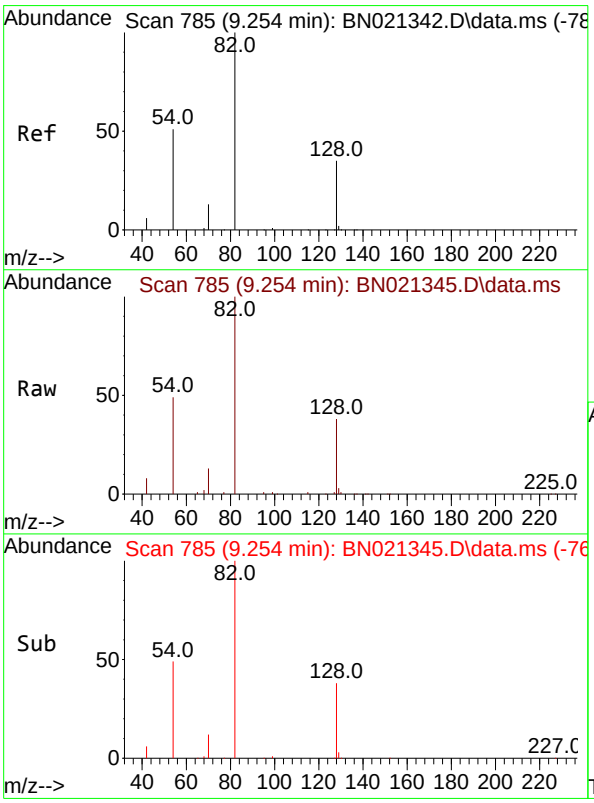
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.919 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 8422

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.3	13.9
54	7.9	6.9	10.3
68	7.3	6.1	9.1

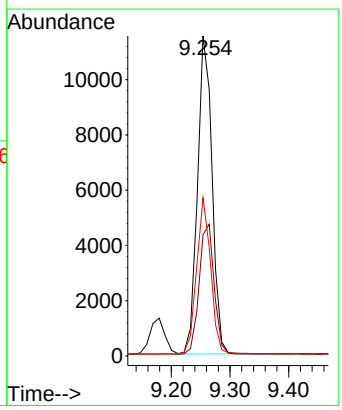


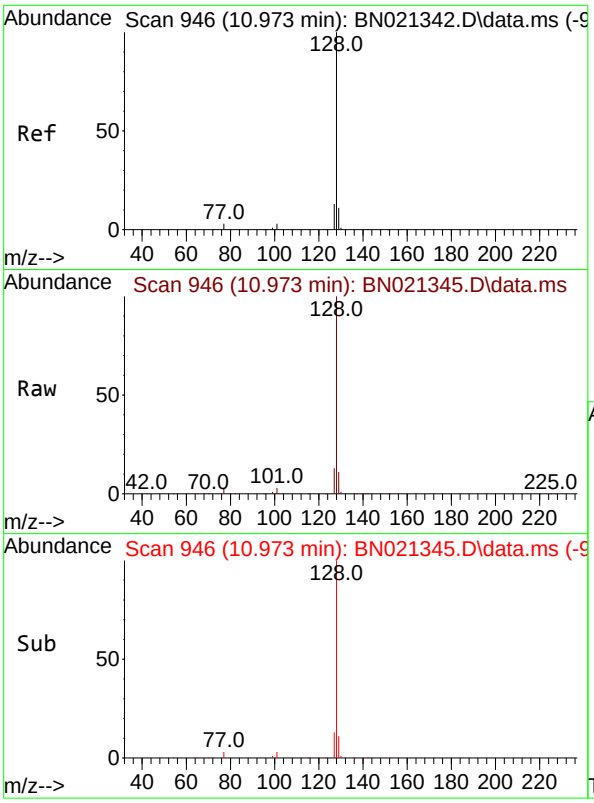


#8
Nitrobenzene-d5
Concen: 3.187 ng
RT: 9.254 min Scan# 785
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion: 82 Resp: 19861

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.9	46.3
54	49.4	42.7	64.1



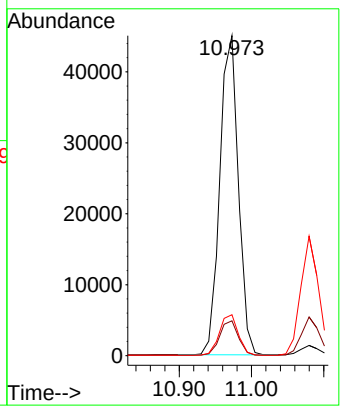


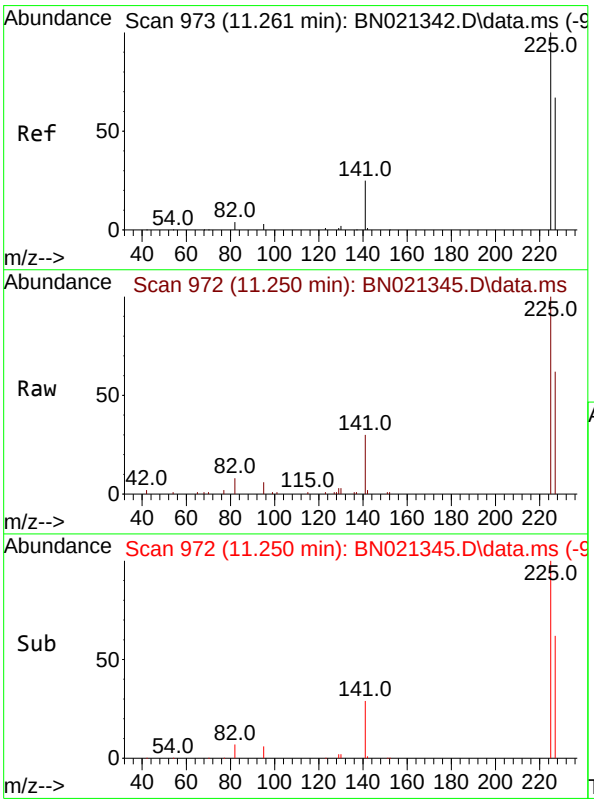
#9
Naphthalene
Concen: 3.141 ng
RT: 10.973 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 79989

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.3	13.9
127	12.8	11.0	16.4

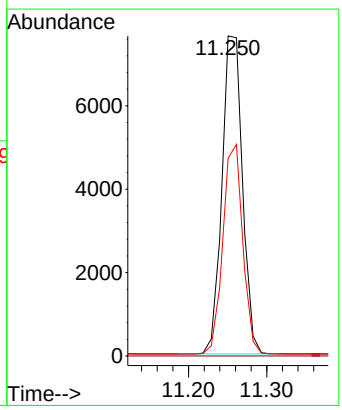


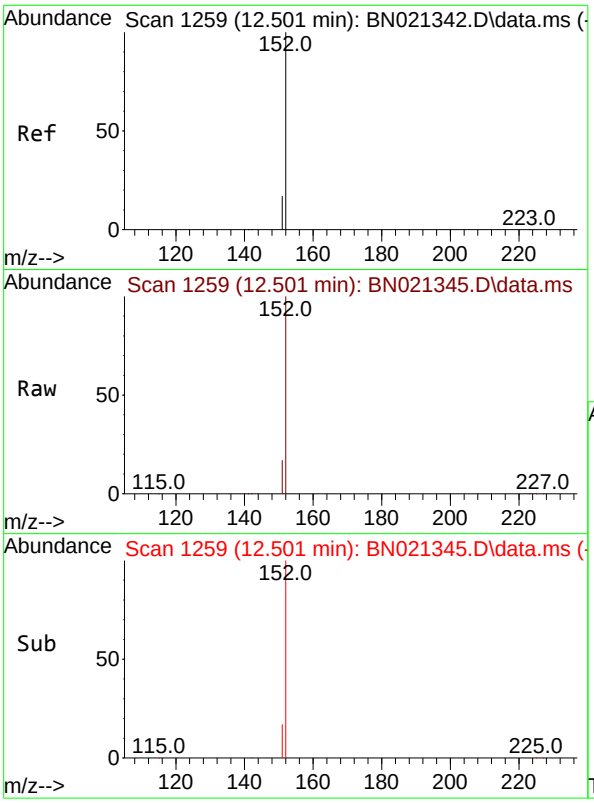


#10
Hexachlorobutadiene
Concen: 3.042 ng
RT: 11.250 min Scan# 972
Delta R.T. -0.011 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:225 Resp: 13877

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



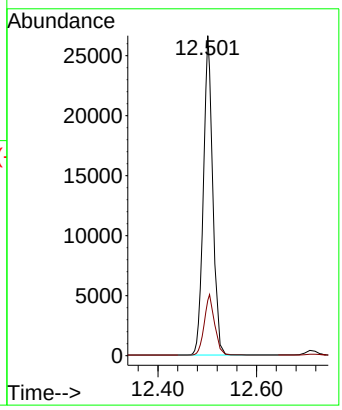


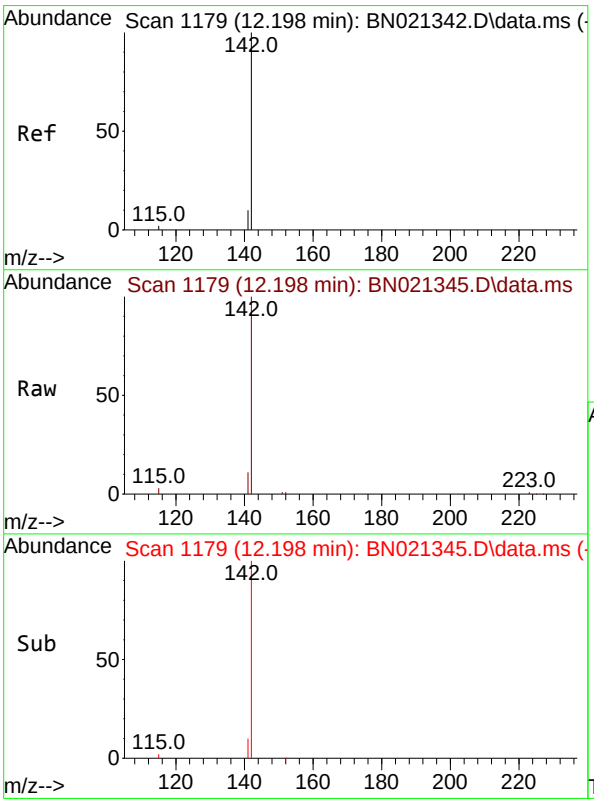
#11
2-Methylnaphthalene-d10
Concen: 3.248 ng
RT: 12.501 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 47624

Ion	Ratio	Lower	Upper
152	100		
151	19.3	14.5	21.7

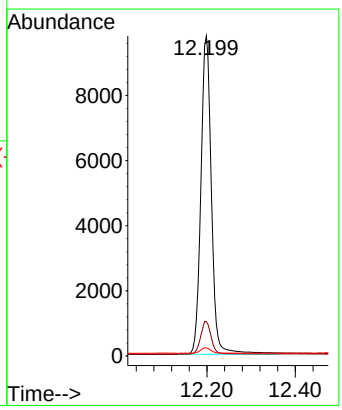


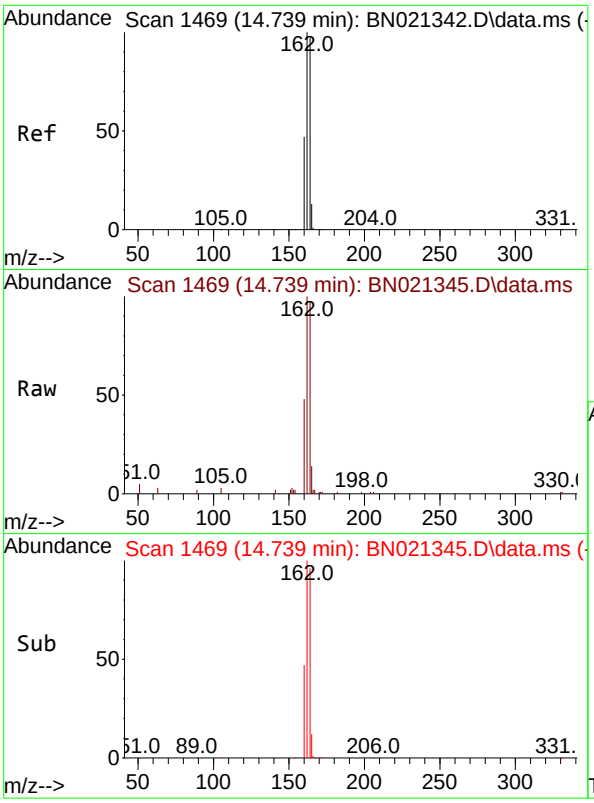


#12
2-Methylnaphthalene
Concen: 0.930 ng
RT: 12.198 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:142 Resp: 16166

Ion	Ratio	Lower	Upper
142	100		
141	10.8	12.2	18.2#
115	2.5	7.9	11.9#



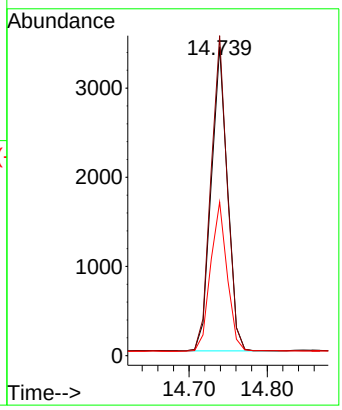


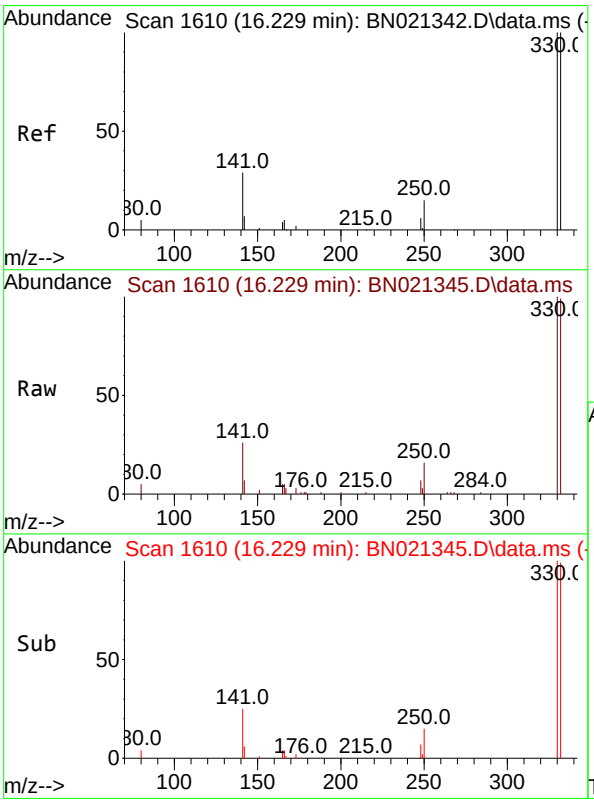
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.739 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4934

Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.2	123.4
160	49.7	39.5	59.3

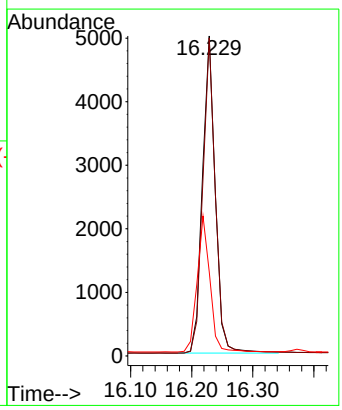


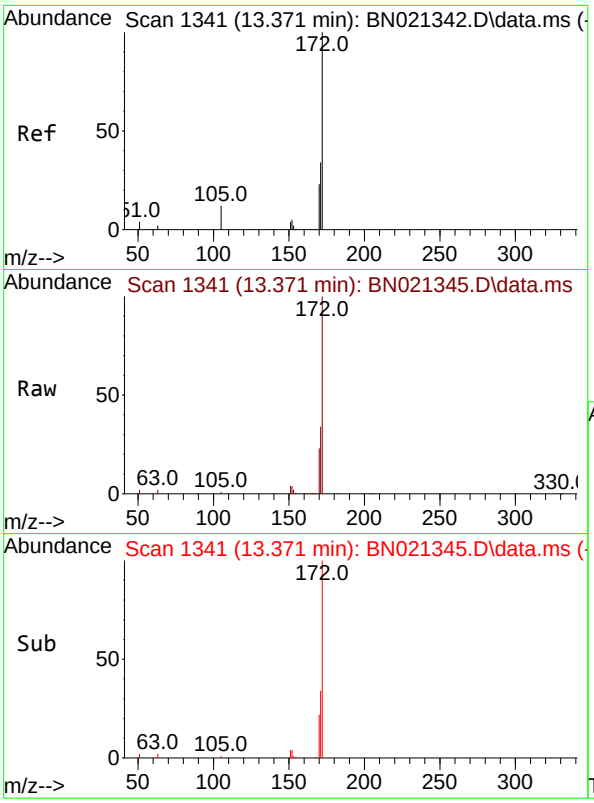


#14
2,4,6-Tribromophenol
Concen: 4.521 ng
RT: 16.229 min Scan# 1610
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:330 Resp: 7293

Ion	Ratio	Lower	Upper
330	100		
332	97.3	79.3	118.9
141	42.8	37.1	55.7



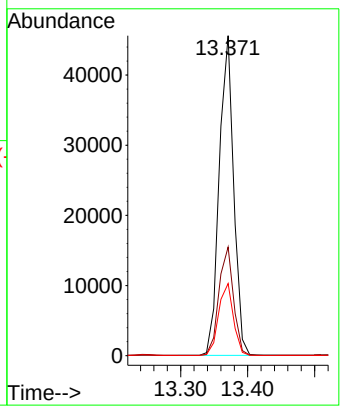


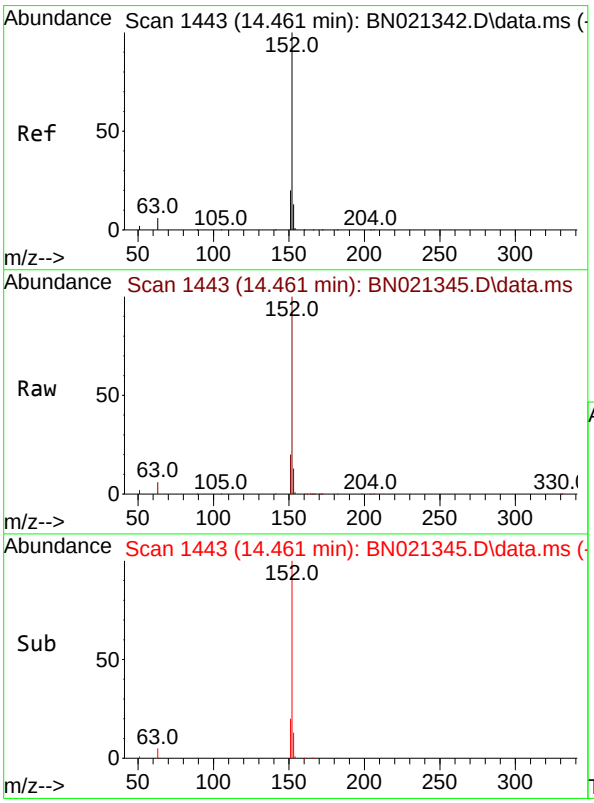
#15
2-Fluorobiphenyl
Concen: 3.480 ng
RT: 13.371 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 68295

Ion	Ratio	Lower	Upper
172	100		
171	33.9	27.8	41.6
170	22.5	18.6	28.0

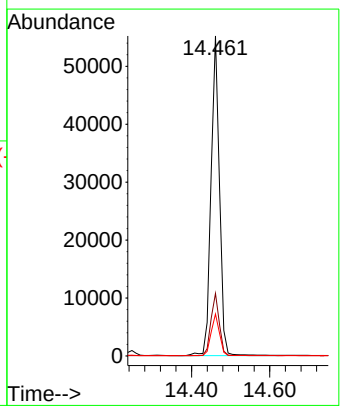


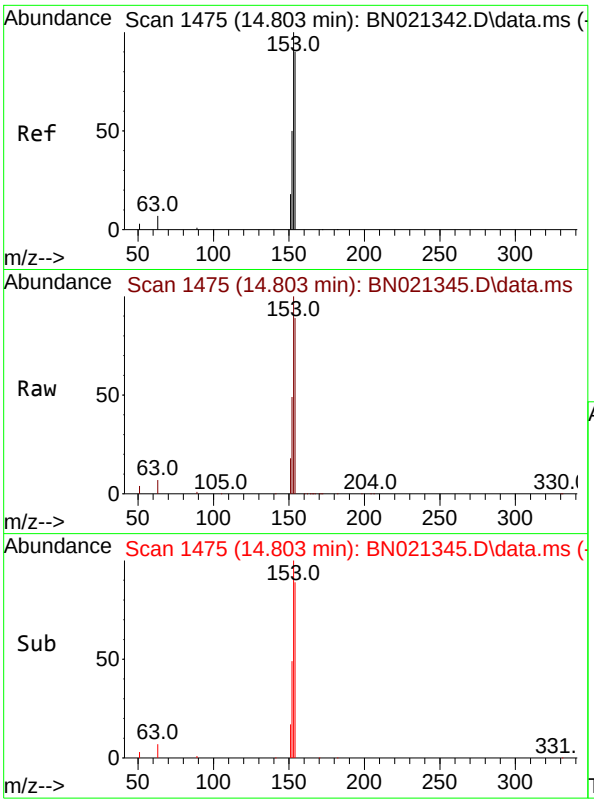


#16
Acenaphthylene
Concen: 3.491 ng
RT: 14.461 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:152 Resp: 82761

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	13.0	10.3	15.5



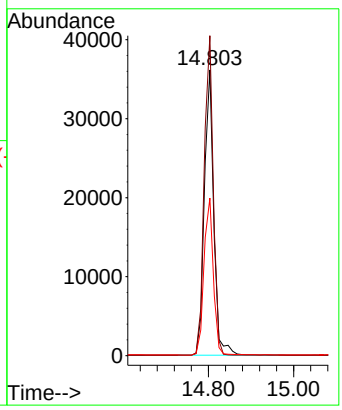


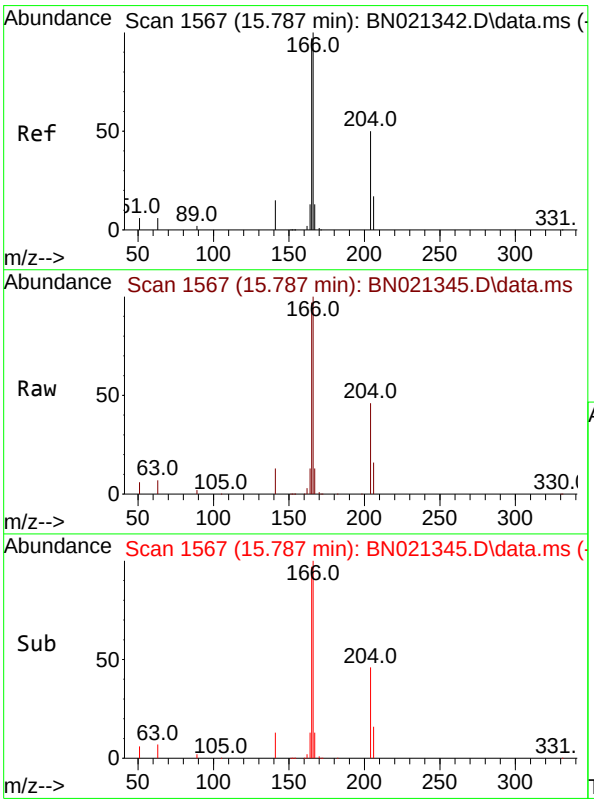
#17
Acenaphthene
Concen: 3.372 ng
RT: 14.803 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 54938

Ion	Ratio	Lower	Upper
154	100		
153	109.0	89.5	134.3
152	54.9	45.5	68.3

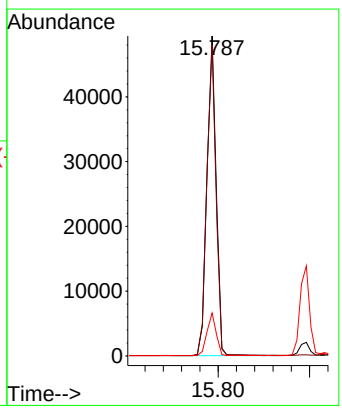


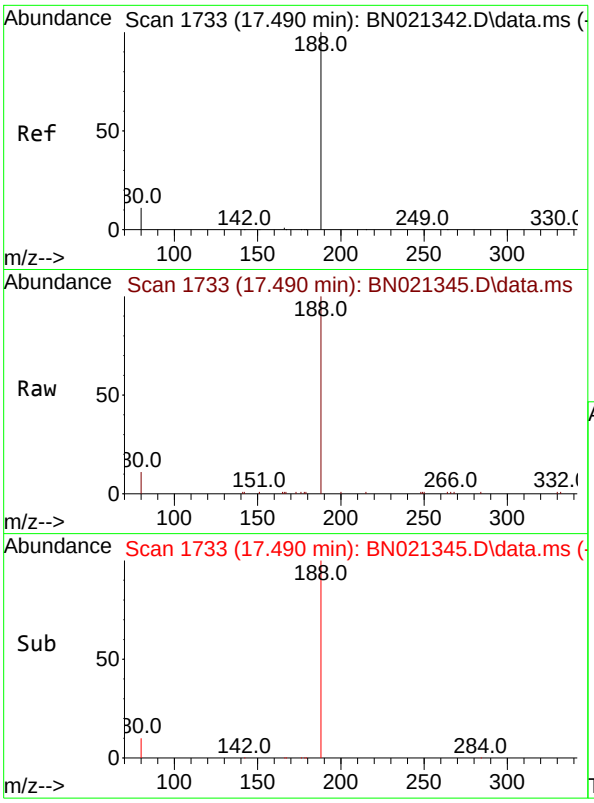


#18
Fluorene
Concen: 3.237 ng
RT: 15.787 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:166 Resp: 67083

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.7	118.1
167	13.4	10.6	16.0





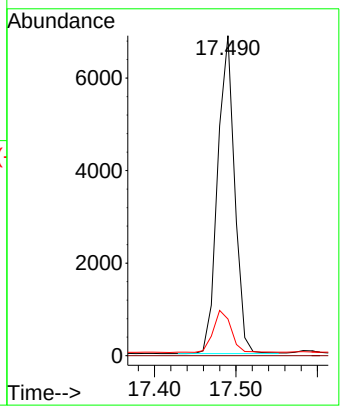
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.490 min Scan# 1

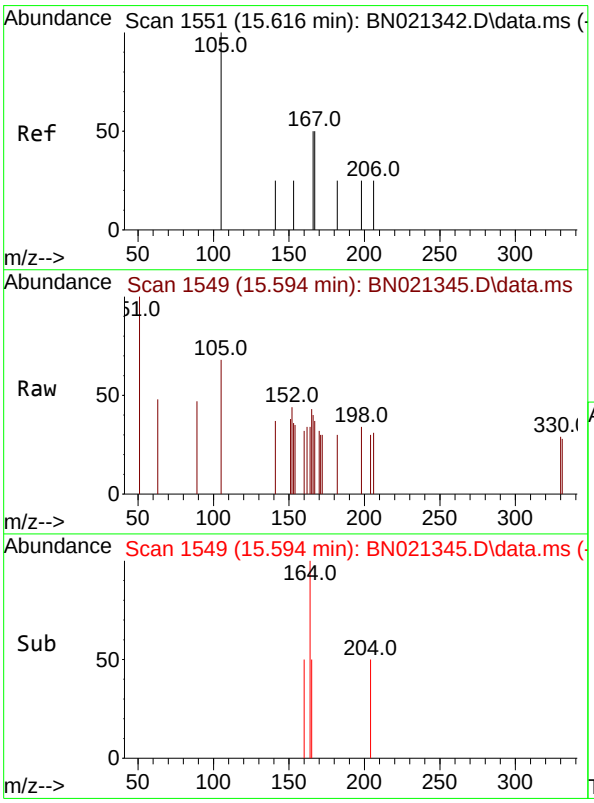
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:188 Resp: 9946

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	9.5	14.3

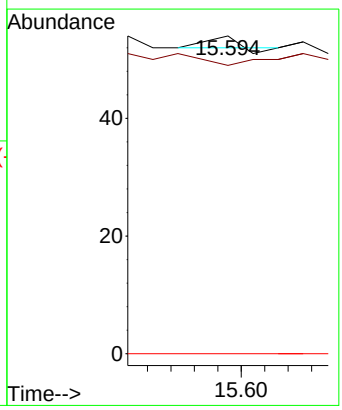


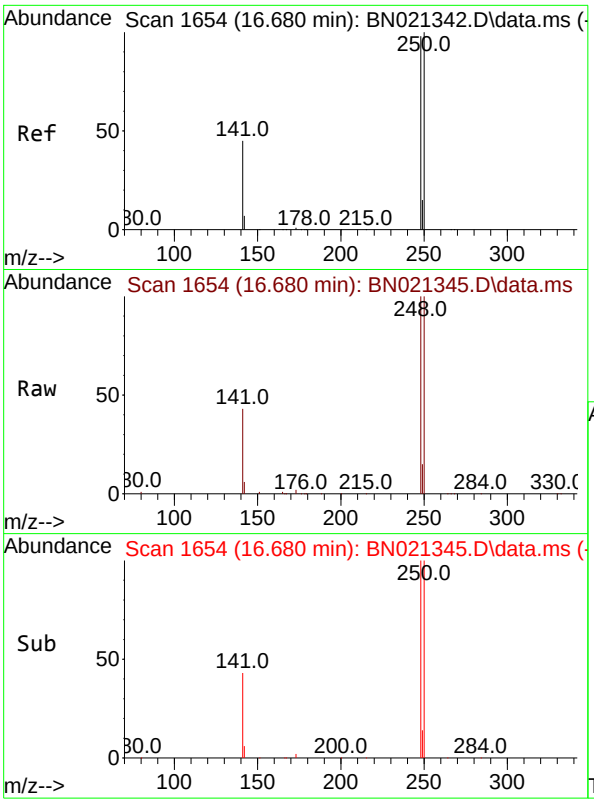


#20
4,6-Dinitro-2-methylphenol
Concen: 0.001 ng
RT: 15.594 min Scan# 1549
Delta R.T. -0.021 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:198 Resp: 1

Ion	Ratio	Lower	Upper
198	100		
182	90.7	86.6	130.0
77	0.0	0.0	0.0



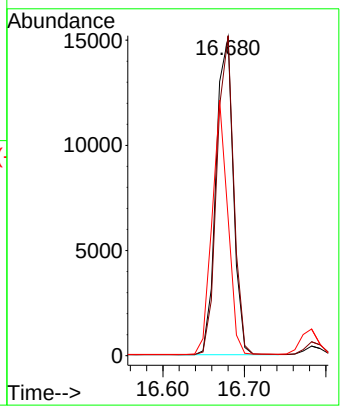


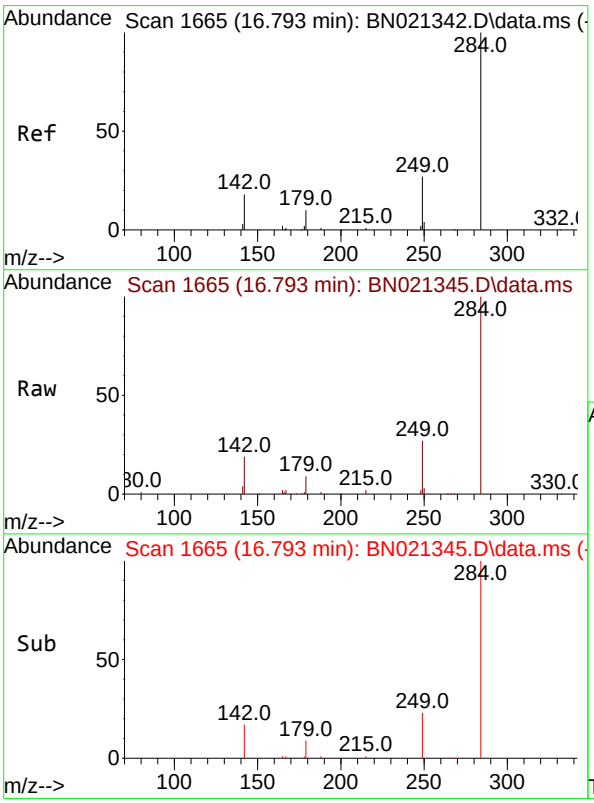
#21
4-Bromophenyl-phenylether
Concen: 3.635 ng
RT: 16.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 22194

Ion	Ratio	Lower	Upper
248	100		
250	100.5	81.8	122.6
141	43.2	38.5	57.7

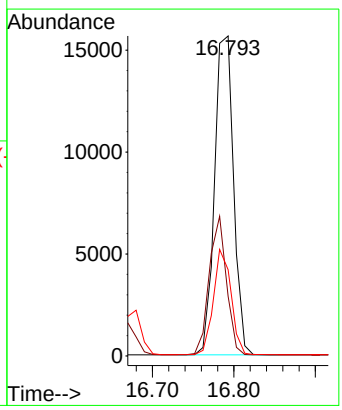


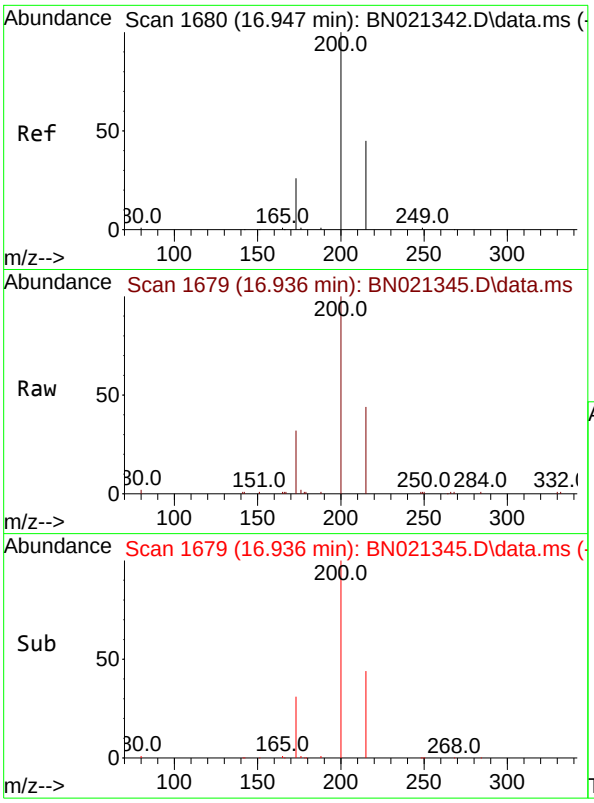


#22
Hexachlorobenzene
Concen: 3.670 ng
RT: 16.793 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:284 Resp: 25255

Ion	Ratio	Lower	Upper
284	100		
142	39.4	32.3	48.5
249	30.6	25.4	38.2



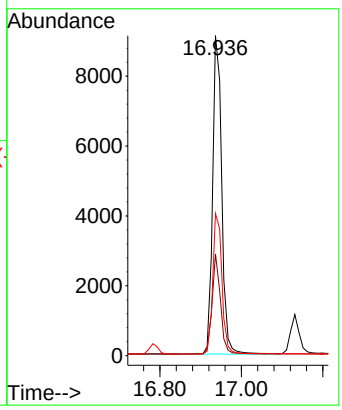


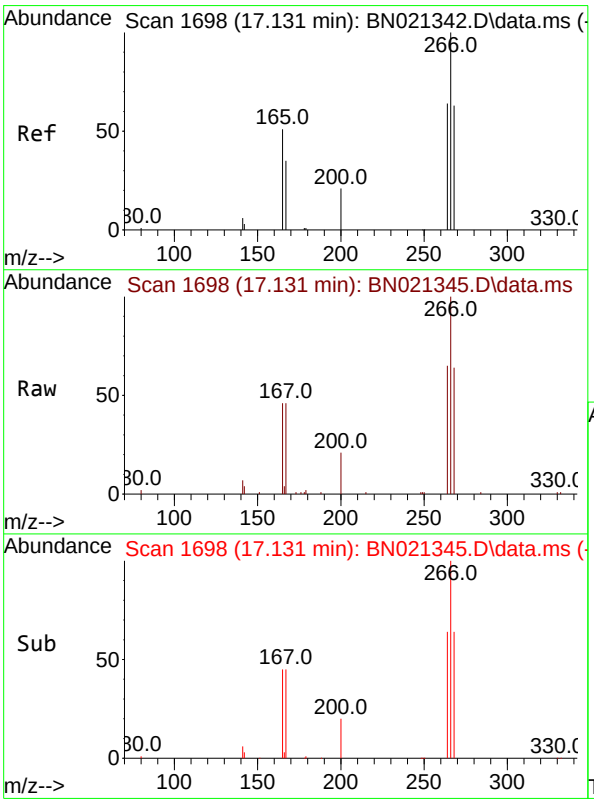
#23
Atrazine
Concen: 3.606 ng
RT: 16.936 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 14168

Ion	Ratio	Lower	Upper
200	100		
173	31.8	24.3	36.5
215	44.4	38.4	57.6

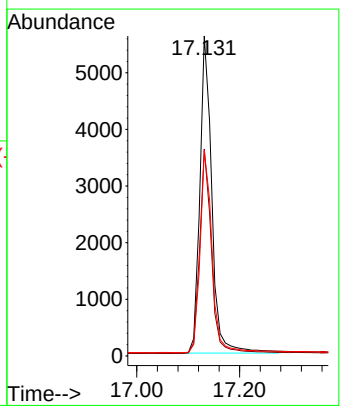


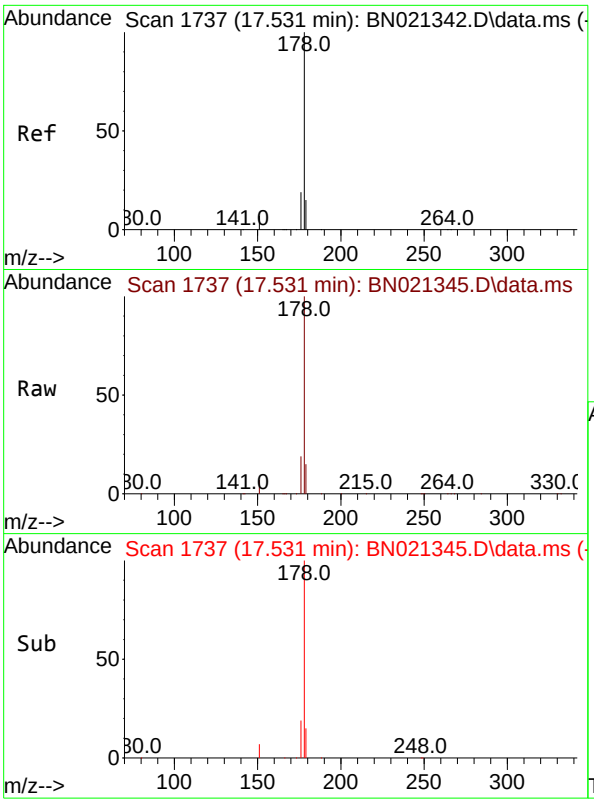


#24
Pentachlorophenol
Concen: 5.818 ng
RT: 17.131 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:266 Resp: 9013

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.0	73.6
268	64.2	50.9	76.3



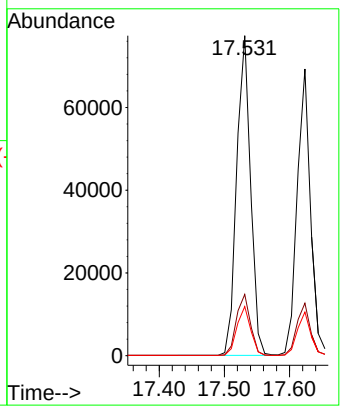


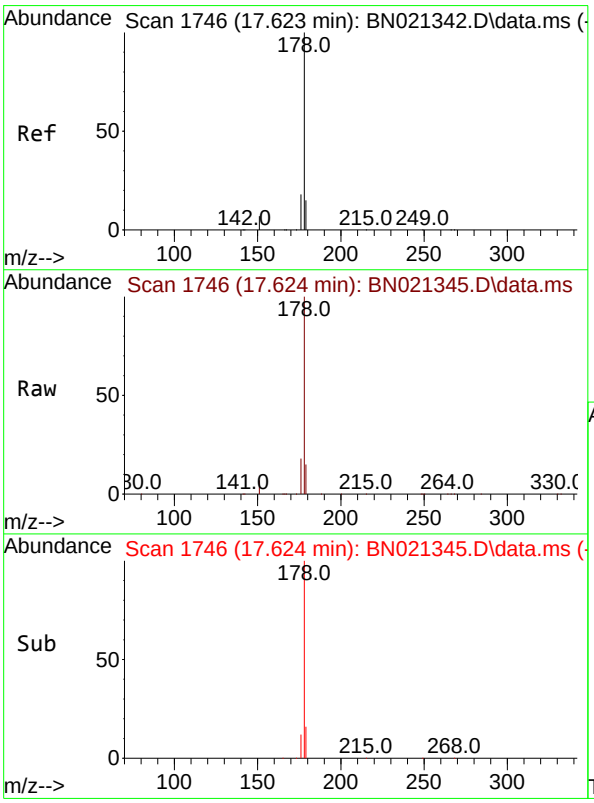
#25
Phenanthrene
Concen: 3.441 ng
RT: 17.531 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 113902

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.1	12.2	18.4

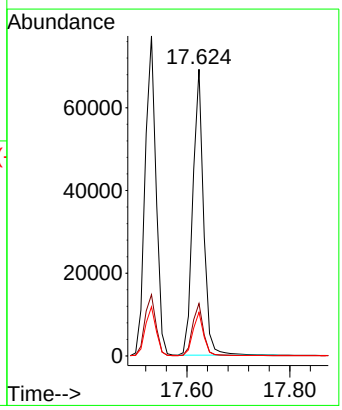


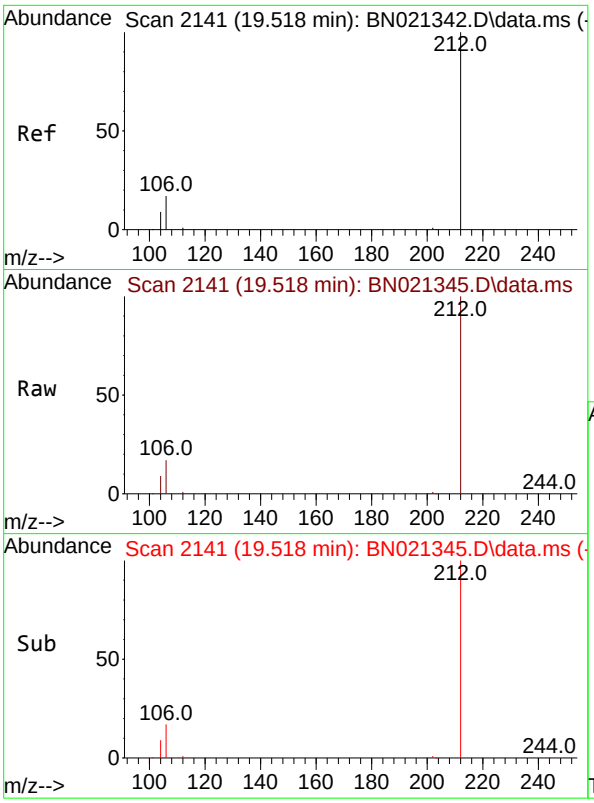


#26
Anthracene
Concen: 3.605 ng
RT: 17.624 min Scan# 1746
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:178 Resp: 99683

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.2



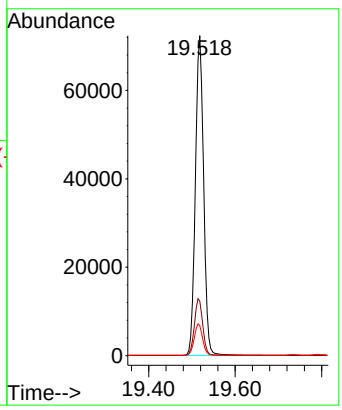


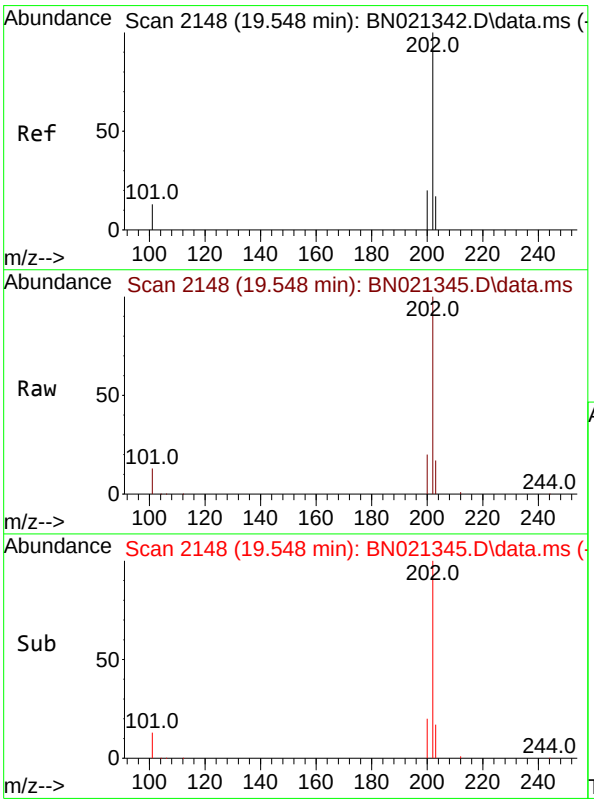
#27
Fluoranthene-d10
Concen: 3.547 ng
RT: 19.518 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 95800

Ion	Ratio	Lower	Upper
212	100		
106	17.9	14.2	21.2
104	9.8	7.8	11.6

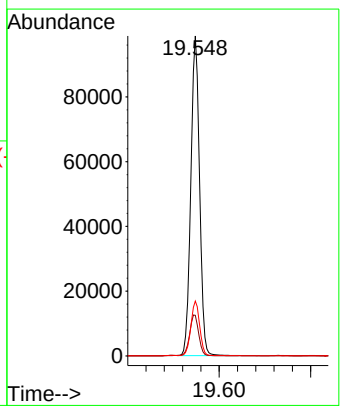


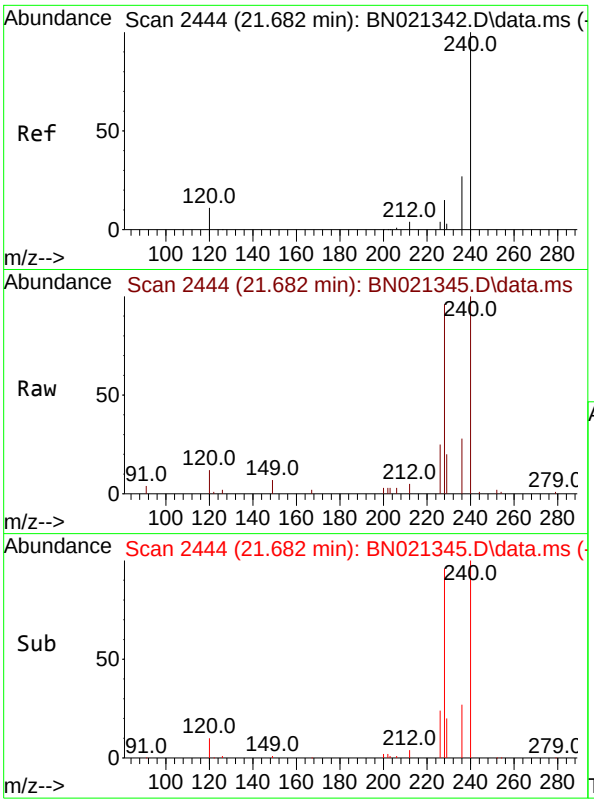


#28
Fluoranthene
Concen: 3.784 ng
RT: 19.548 min Scan# 2148
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:202 Resp: 130953

Ion	Ratio	Lower	Upper
202	100		
101	13.3	10.9	16.3
203	17.2	13.8	20.6



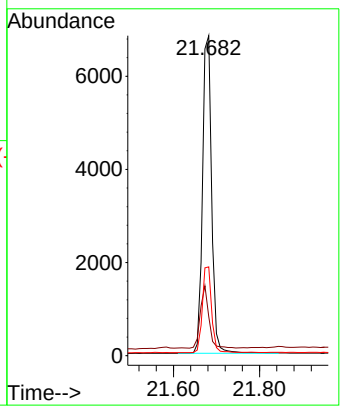


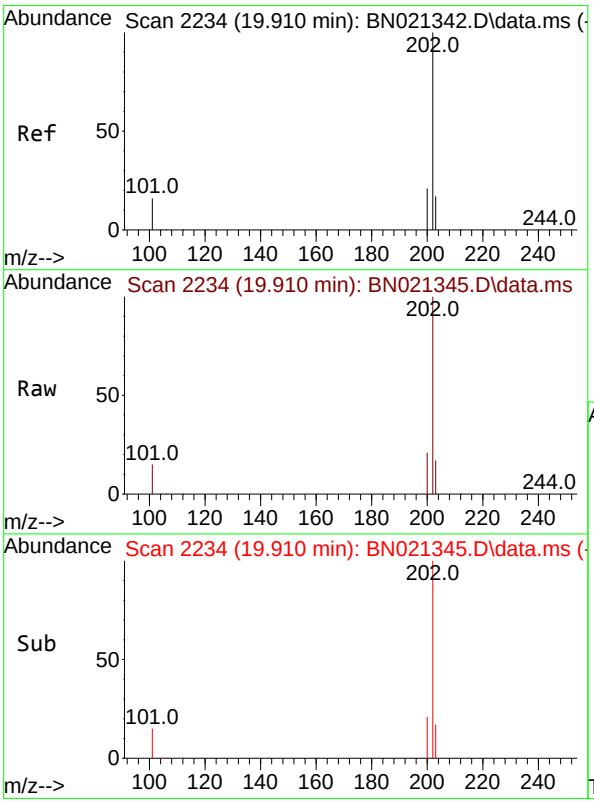
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.682 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 10074

Ion	Ratio	Lower	Upper
240	100		
120	12.2	10.2	15.4
236	27.8	22.1	33.1

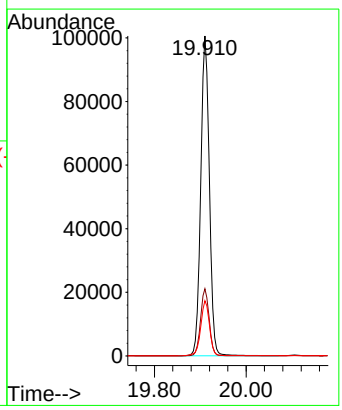


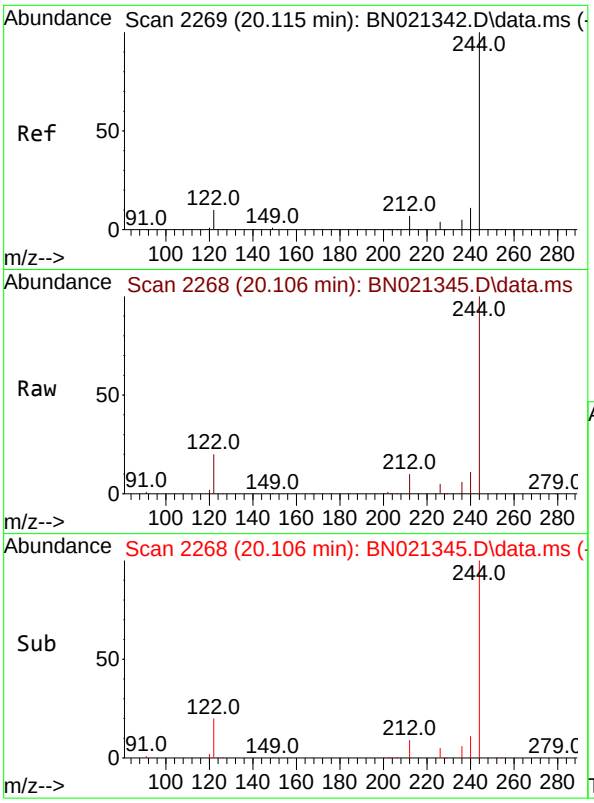


#30
Pyrene
Concen: 2.953 ng
RT: 19.910 min Scan# 2234
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:202 Resp: 153237

Ion	Ratio	Lower	Upper
202	100		
200	20.6	13.9	20.9
203	16.8	11.9	17.9



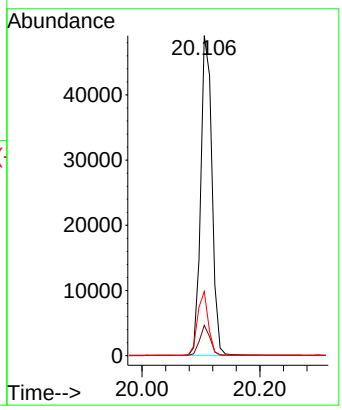


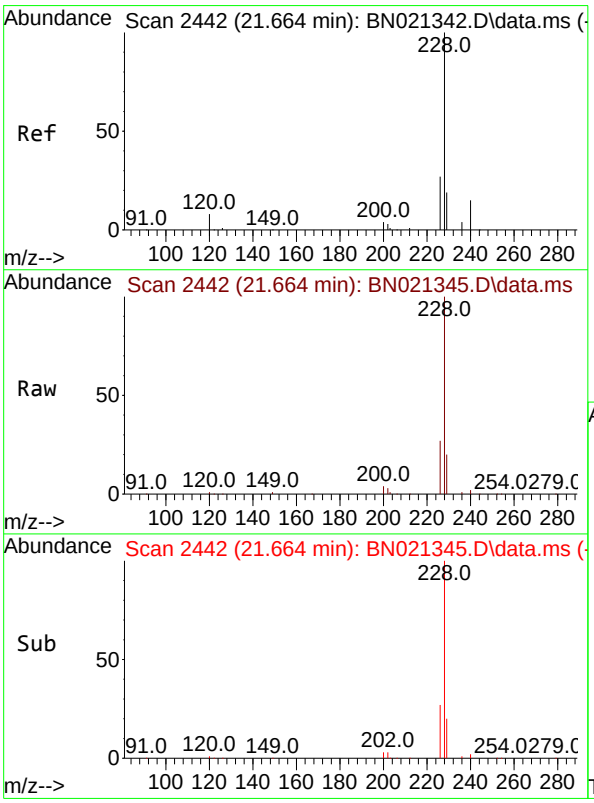
#31
Terphenyl-d14
Concen: 2.361 ng
RT: 20.106 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 64836

Ion	Ratio	Lower	Upper
244	100		
212	9.5	6.5	9.7
122	20.0	9.1	13.7#

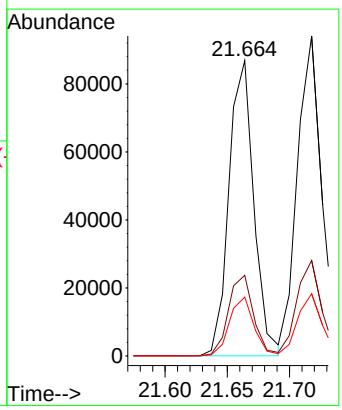


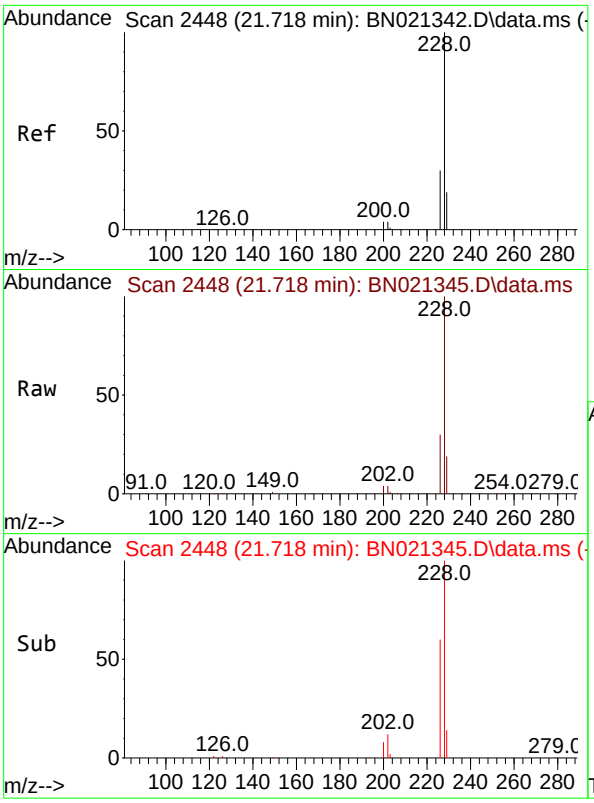


#32
Benzo(a)anthracene
Concen: 3.682 ng
RT: 21.664 min Scan# 2442
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:228 Resp: 120678

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.0	33.0
229	19.9	15.9	23.9



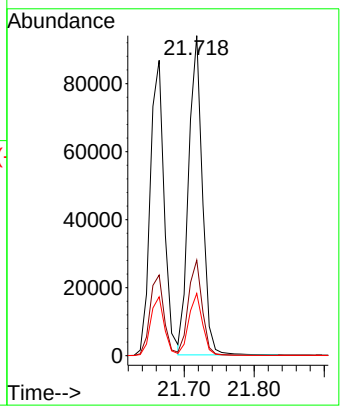


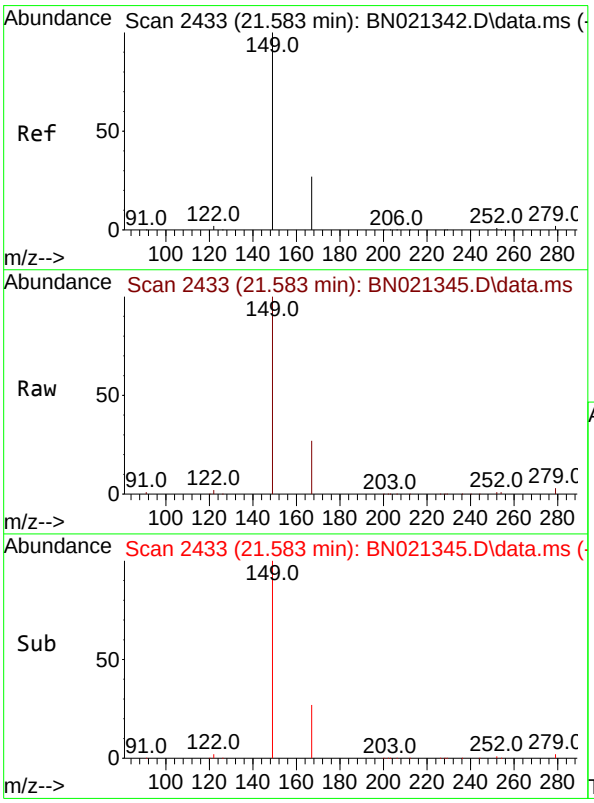
#33
Chrysene
Concen: 3.131 ng
RT: 21.718 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 127533

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.2	36.2
229	19.4	15.9	23.9

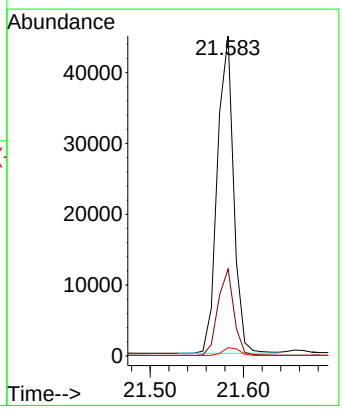


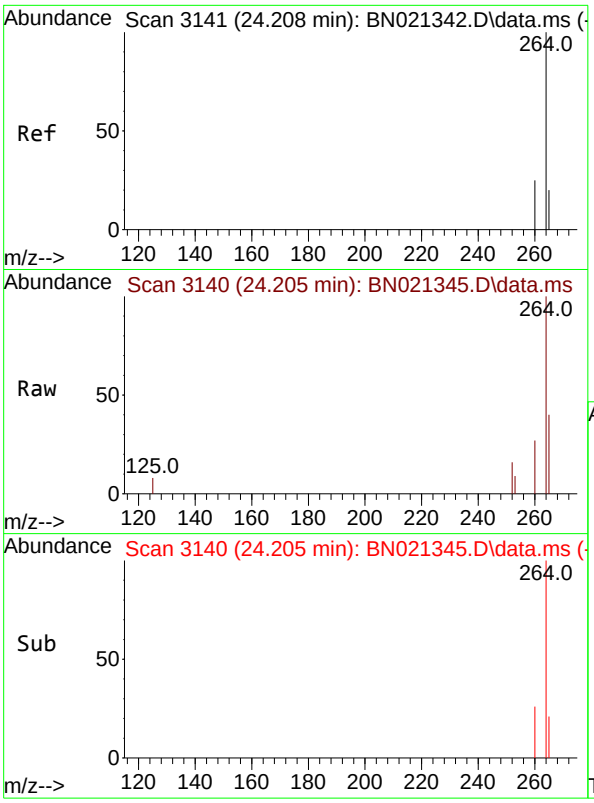


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.419 ng
RT: 21.583 min Scan# 2433
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:149 Resp: 54161

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	2.6	2.2	3.2



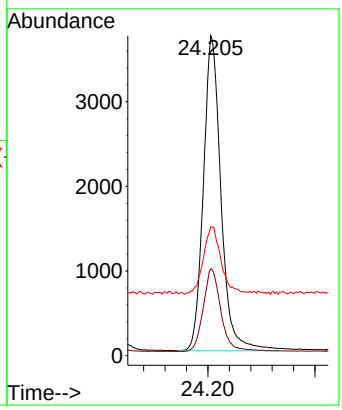


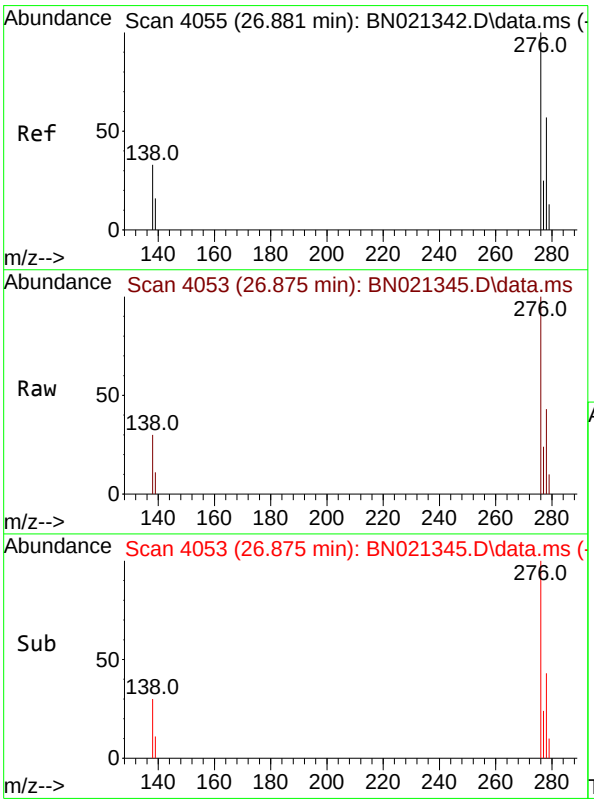
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.205 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 8490

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.0	31.6
265	40.3	32.2	48.2

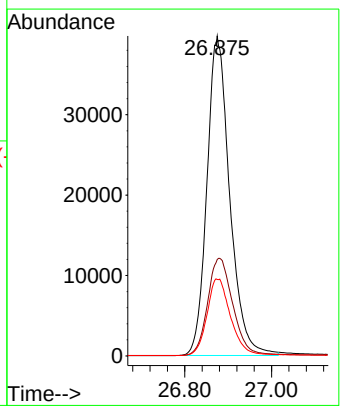


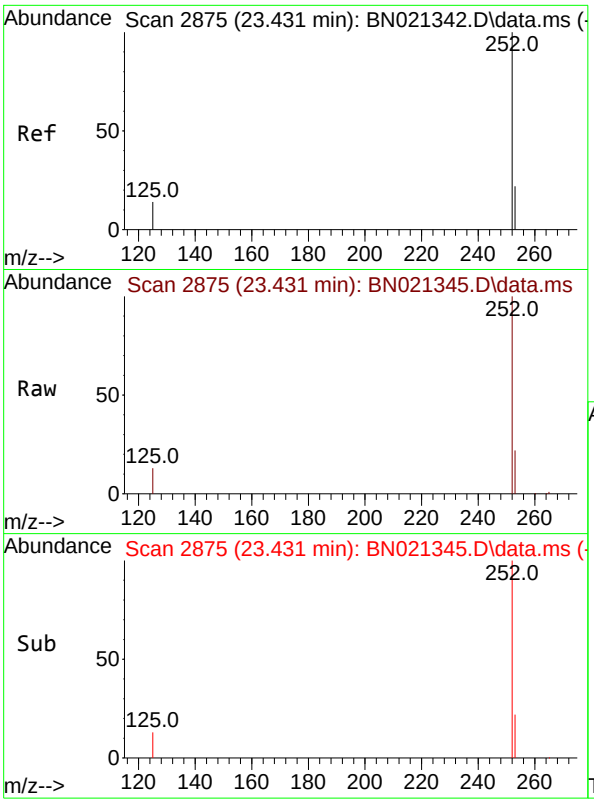


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.863 ng
RT: 26.875 min Scan# 4053
Delta R.T. -0.006 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:276 Resp: 145048

Ion	Ratio	Lower	Upper
276	100		
138	33.5	27.4	41.2
277	24.9	19.9	29.9



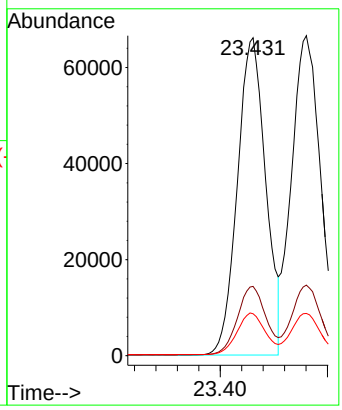


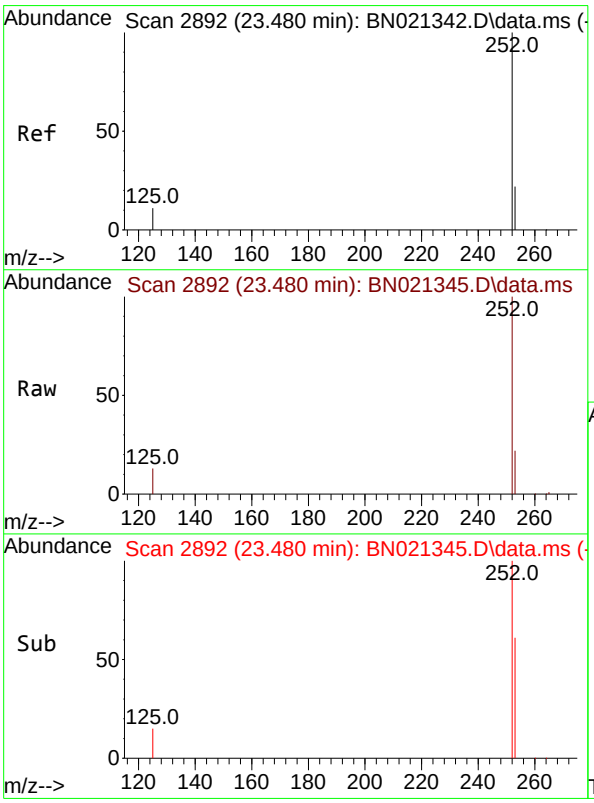
#37
Benzo(b)fluoranthene
Concen: 3.417 ng
RT: 23.431 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 121022

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.8	29.6
125	13.2	13.7	20.5#

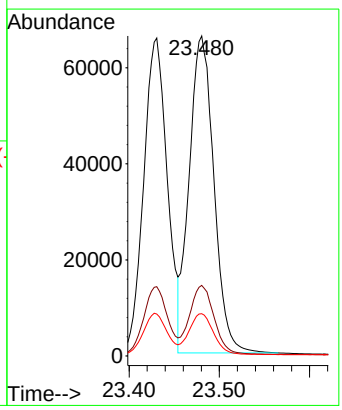


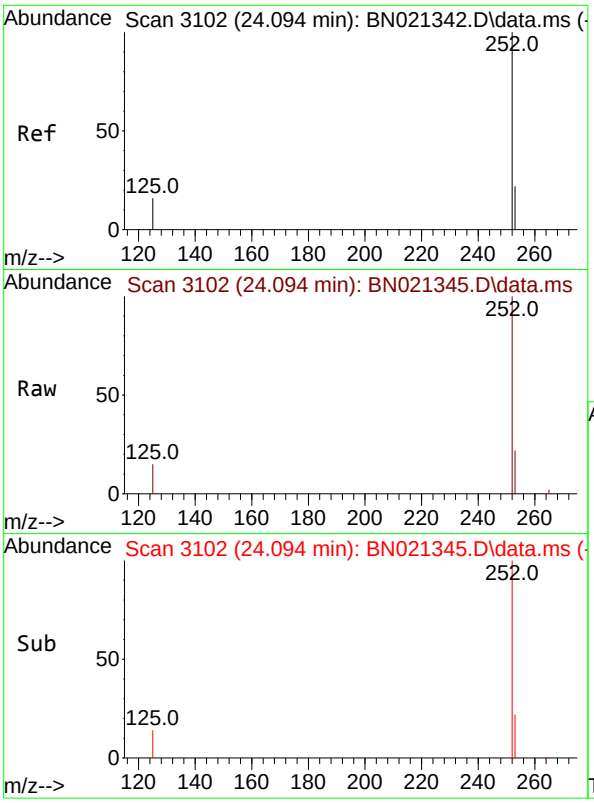


#38
Benzo(k)fluoranthene
Concen: 3.514 ng
RT: 23.480 min Scan# 2892
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:252 Resp: 125571

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.5	29.3
125	13.2	12.3	18.5



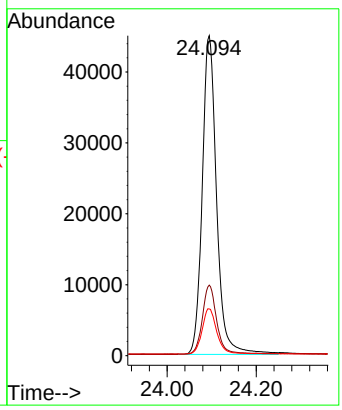


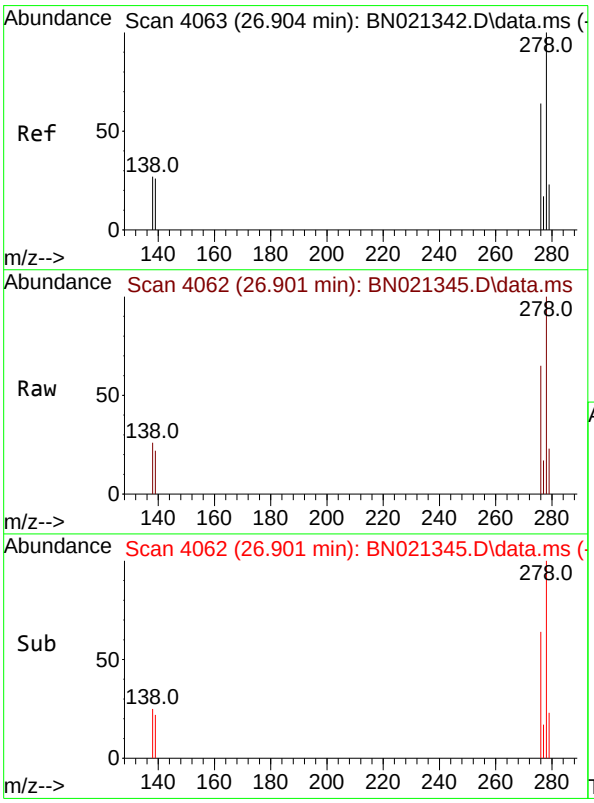
#39
Benzo(a)pyrene
Concen: 3.409 ng
RT: 24.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 100694

Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.1	31.7
125	14.6	16.6	25.0#

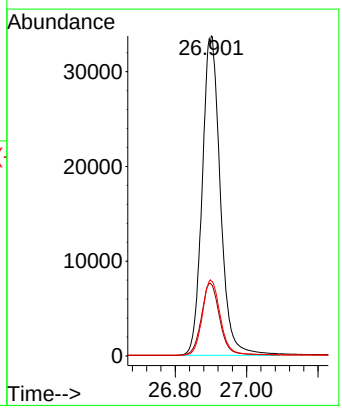


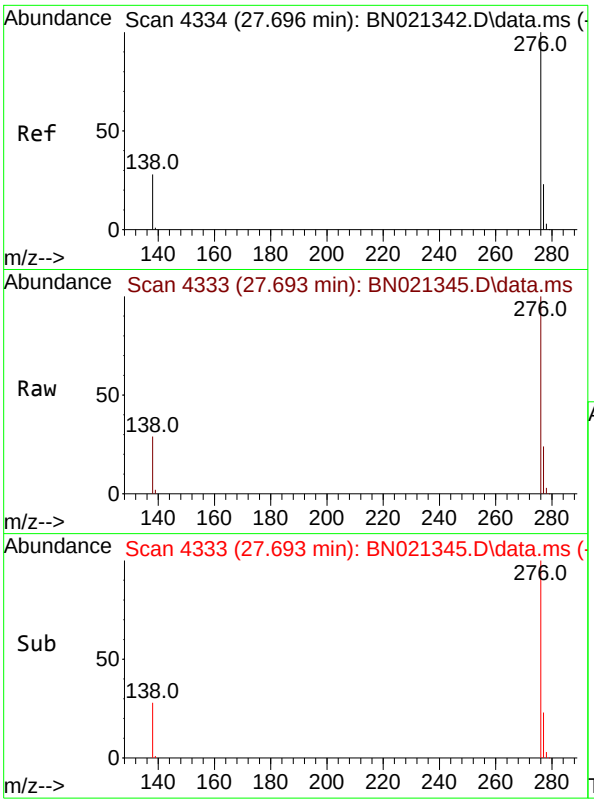


#40
Dibenzo(a,h)anthracene
Concen: 4.096 ng
RT: 26.901 min Scan# 4062
Delta R.T. -0.003 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Tgt Ion:278 Resp: 118939

Ion	Ratio	Lower	Upper
278	100		
139	22.3	21.8	32.6
279	23.4	20.4	30.6





#41
Benzo(g,h,i)perylene
Concen: 3.674 ng
RT: 27.693 min Scan# 4
Delta R.T. -0.003 min
Lab File: BN021345.D
Acq: 24 Aug 2022 19:47

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 124002

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.7	29.5
138	28.6	23.7	35.5