Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111621\
Data File : BN017468.D
Acq On : 16 Nov 2021 10:06
Operator : CG/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 16 11:42:53 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 16 11:40:41 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.874	152	25511	0.400	ng		0.00
7) Naphthalene-d8	10.661	136	114365	0.400	ng	#	0.00
13) Acenaphthene-d10	14.498	164	58889	0.400	ng		0.00
19) Phenanthrene-d10	17.238	188	101410	0.400	ng		0.00
29) Chrysene-d12	21.420	240	81078	0.400	ng	#	0.00
35) Perylene-d12	23.801	264	57478	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.449	112	25798	0.439	ng		0.00
5) Phenol-d6	7.035	99	27623	0.426	ng		0.00
8) Nitrobenzene-d5	9.014	82	26748	0.390	ng		0.00
11) 2-Methylnaphthalene-d10	12.253	152	75486	0.448	ng		0.00
14) 2,4,6-Tribromophenol	15.983	330	5407	0.246	ng		0.00
15) 2-Fluorobiphenyl	13.128	172	92503	0.413	ng		0.00
27) Fluoranthene-d10	19.268	212	117398	0.454	ng		0.00
31) Terphenyl-d14	19.868	244	82585	0.457	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.393	88	3996	0.280	ng	#	86
3) n-Nitrosodimethylamine	3.743	42	8025	0.366	ng		94
6) bis(2-Chloroethyl)ether	7.302	93	28779	0.422	ng		95
9) Naphthalene	10.712	128	114997	0.382	ng		100
10) Hexachlorobutadiene	11.016	225	24092	0.408	ng	#	100
12) 2-Methylnaphthalene	12.329	142	74292	0.375	ng		98
16) Acenaphthylene	14.206	152	79981	0.333	ng		99
17) Acenaphthene	14.562	154	62897	0.380	ng		98
18) Fluorene	15.539	166	72257	0.366	ng		100
20) 4,6-Dinitro-2-methylph...	15.615	198	835	0.080	ng	#	87
21) 4-Bromophenyl-phenylether	16.435	248	22159	0.390	ng	#	74
22) Hexachlorobenzene	16.556	284	25627	0.402	ng		98
23) Atrazine	16.702	200	12076	0.315	ng	#	94
24) Pentachlorophenol	16.897	266	4262	0.190	ng		99
25) Phenanthrene	17.274	178	110609	0.381	ng		100
26) Anthracene	17.372	178	86486	0.357	ng		100
28) Fluoranthene	19.297	202	119256	0.380	ng		100
30) Pyrene	19.660	202	116659	0.445	ng		100
32) Benzo(a)anthracene	21.409	228	93793	0.381	ng		100
33) Chrysene	21.462	228	102736	0.392	ng		99
34) Bis(2-ethylhexyl)phtha...	21.345	149	44550	0.513	ng		98
36) Indeno(1,2,3-cd)pyrene	26.255	276	46212	0.230	ng		99
37) Benzo(b)fluoranthene	23.078	252	84077	0.447	ng		98
38) Benzo(k)fluoranthene	23.123	252	77221	0.411	ng		97
39) Benzo(a)pyrene	23.691	252	63610	0.382	ng		97
40) Dibenzo(a,h)anthracene	26.275	278	34391	0.212	ng		95
41) Benzo(g,h,i)perylene	27.001	276	45463	0.260	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111621\
Data File : BN017468.D
Acq On : 16 Nov 2021 10:06
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Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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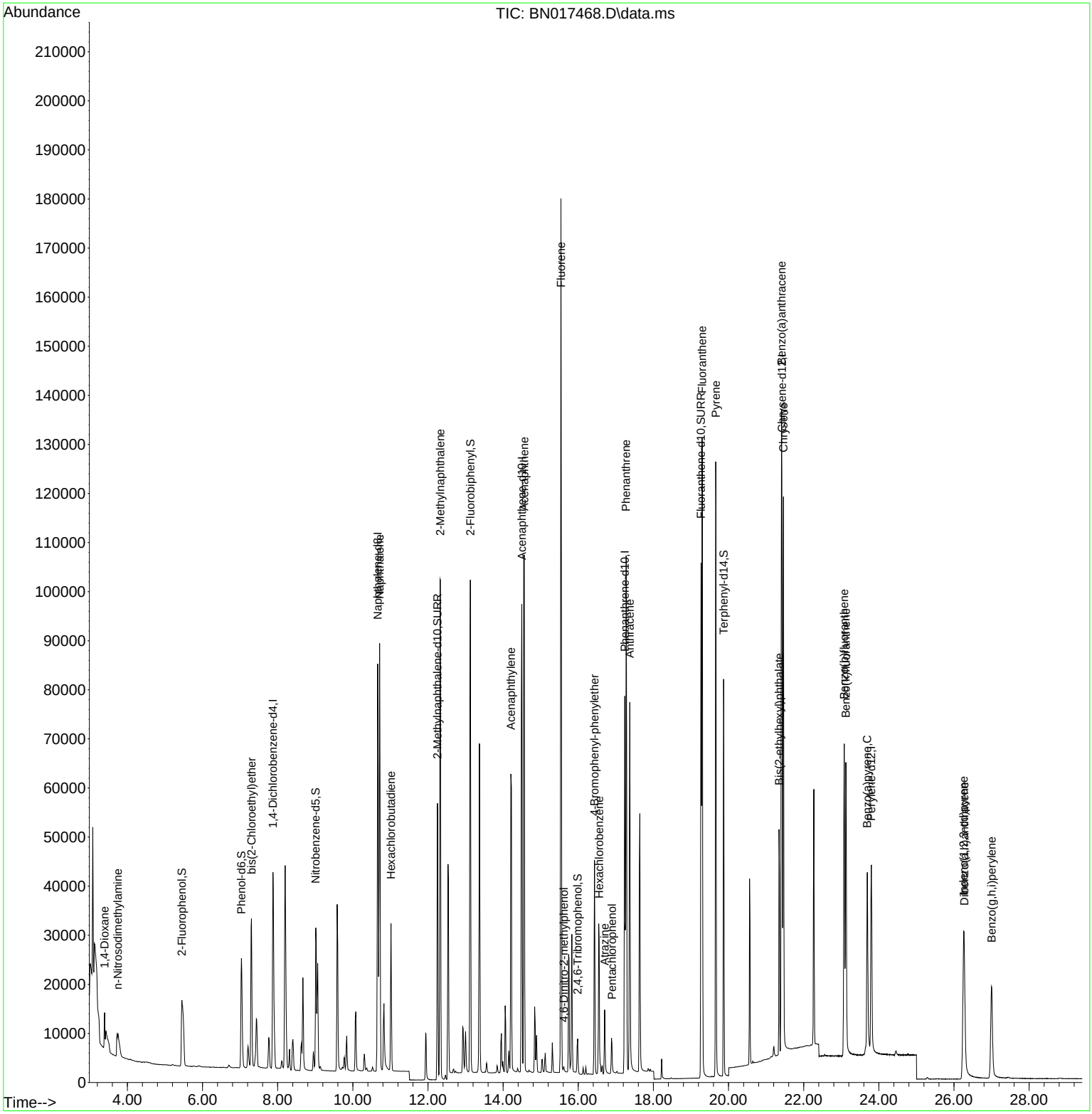
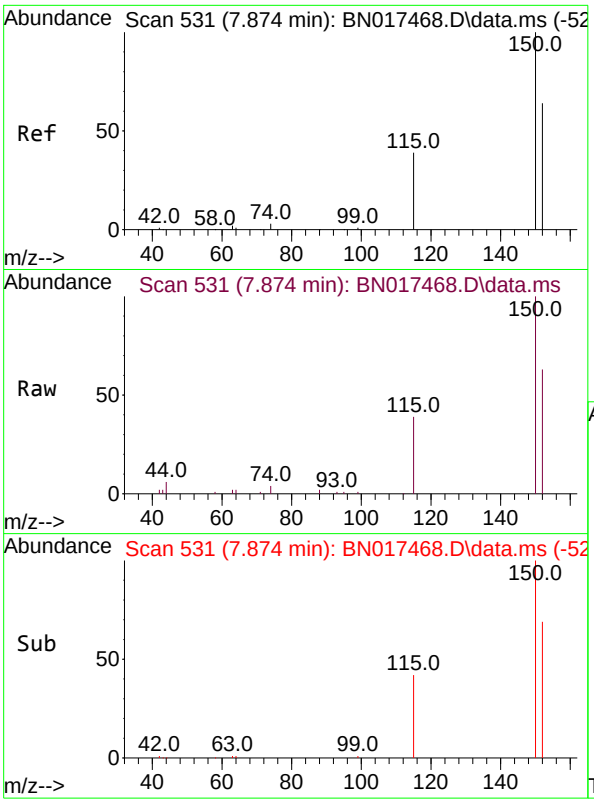
Quant Time: Nov 16 11:42:53 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN111621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 16 11:40:41 2021
Response via : Initial Calibration



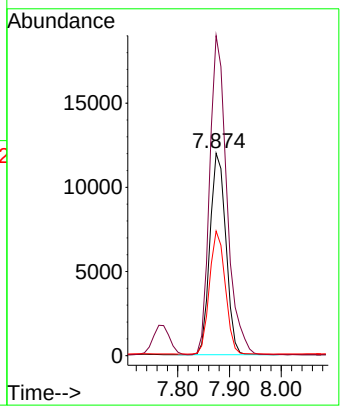


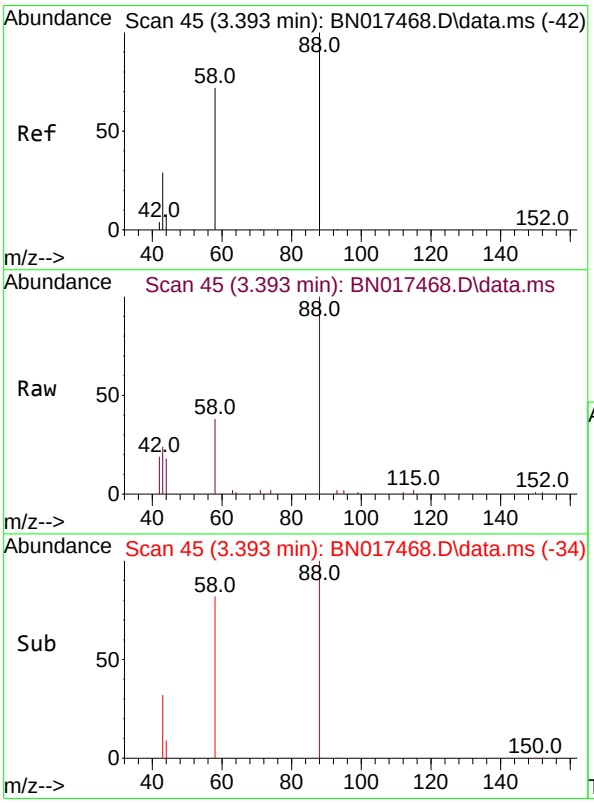
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 25511

Ion	Ratio	Lower	Upper
152	100		
150	158.1	123.0	184.4
115	61.6	45.6	68.4

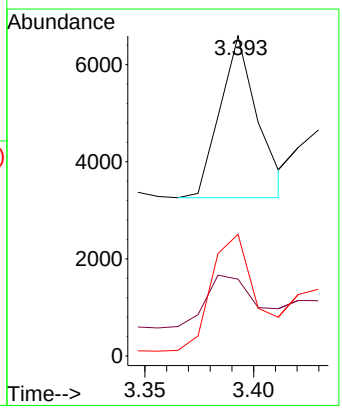


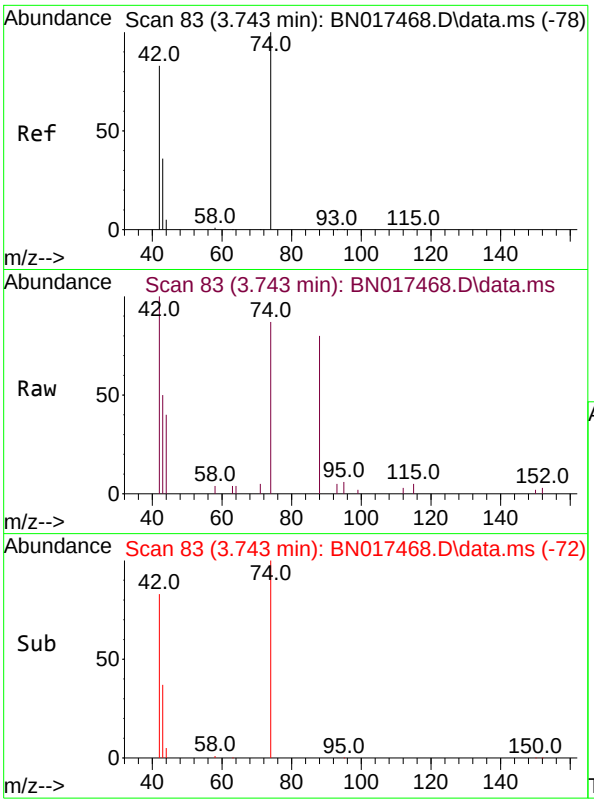


#2
1,4-Dioxane
Concen: 0.280 ng
RT: 3.393 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion: 88 Resp: 3996

Ion	Ratio	Lower	Upper
88	100		
43	44.4	24.7	37.1#
58	87.5	63.0	94.6



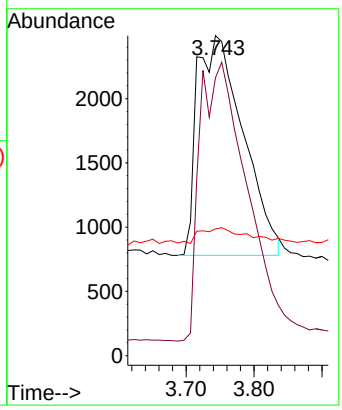


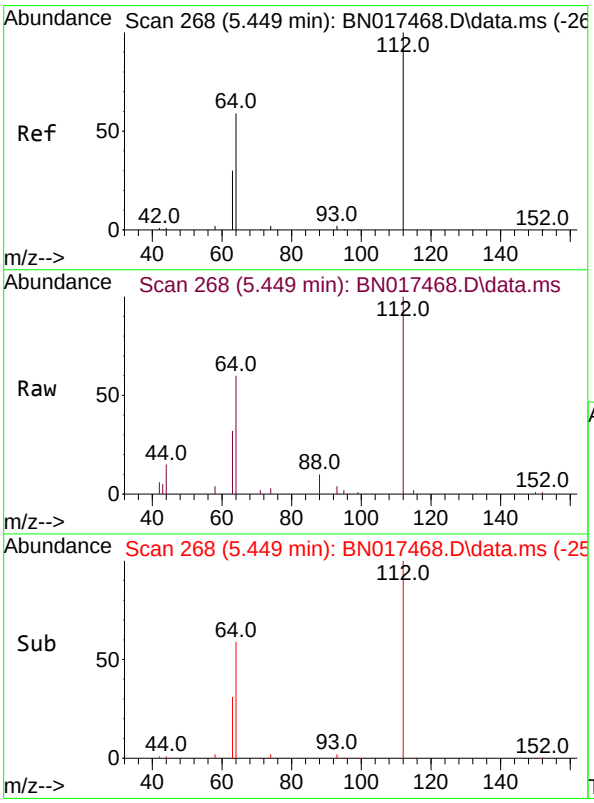
#3
n-Nitrosodimethylamine
Concen: 0.366 ng
RT: 3.743 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 8025

Ion	Ratio	Lower	Upper
42	100		
74	128.8	97.8	146.6
44	6.8	5.5	8.3

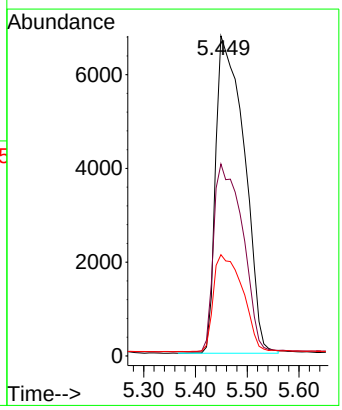


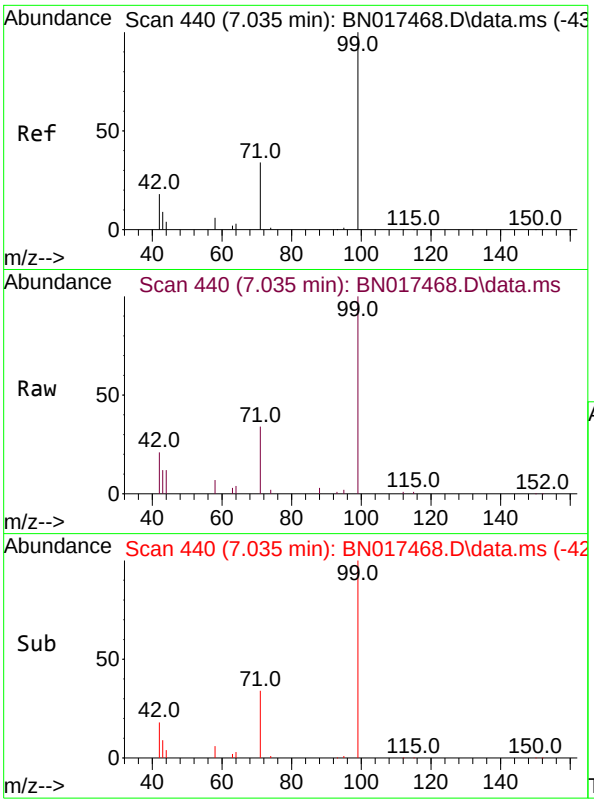


#4
2-Fluorophenol
Concen: 0.439 ng
RT: 5.449 min Scan# 268
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:112 Resp: 25798

Ion	Ratio	Lower	Upper
112	100		
64	60.1	47.6	71.4
63	31.1	24.6	37.0



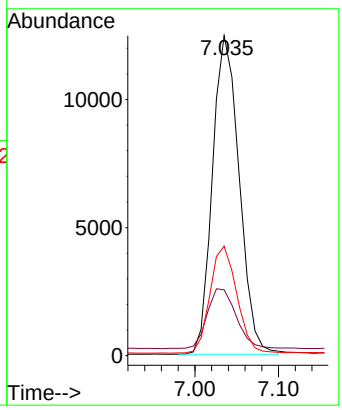


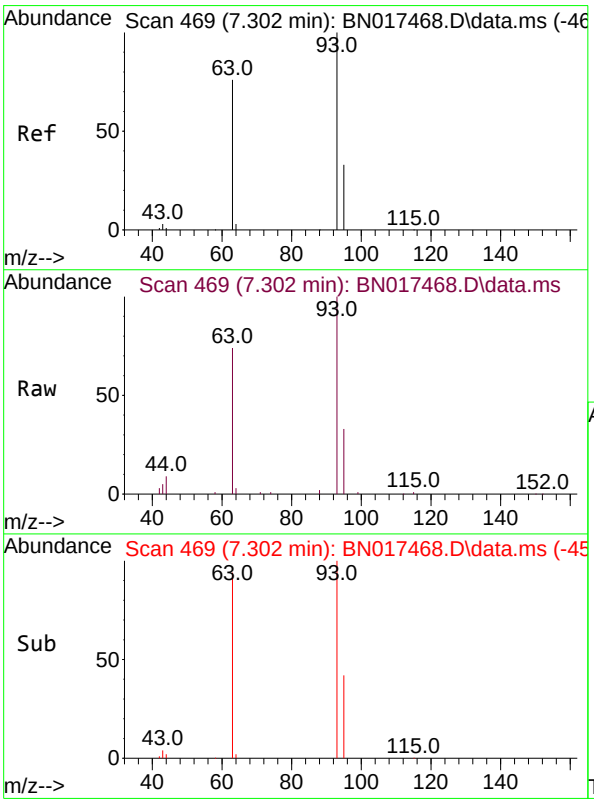
#5
Phenol-d6
Concen: 0.426 ng
RT: 7.035 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 27623

Ion	Ratio	Lower	Upper
99	100		
42	20.5	17.0	25.6
71	33.7	24.8	37.2

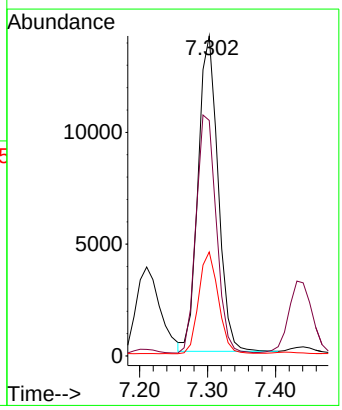


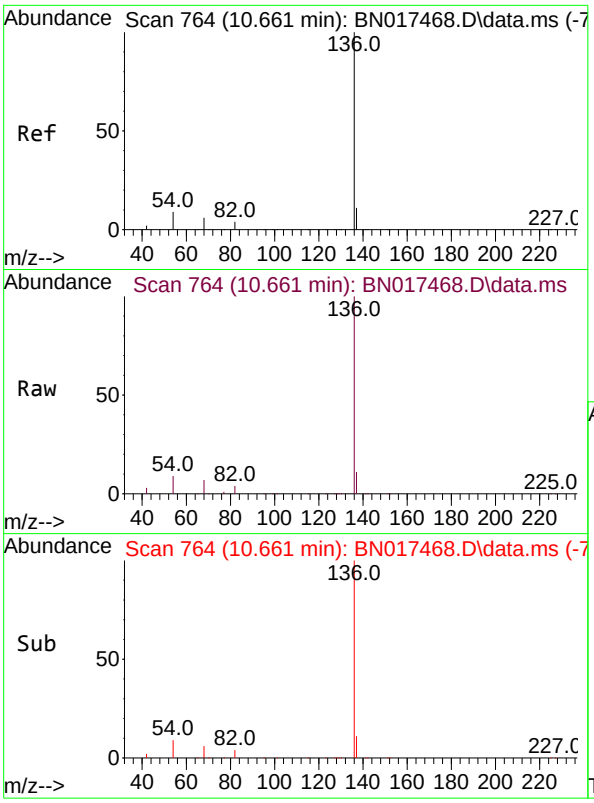


#6
bis(2-Chloroethyl)ether
Concen: 0.422 ng
RT: 7.302 min Scan# 469
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion: 93 Resp: 28779

Ion	Ratio	Lower	Upper
93	100		
63	76.5	65.8	98.6
95	31.8	26.6	39.8



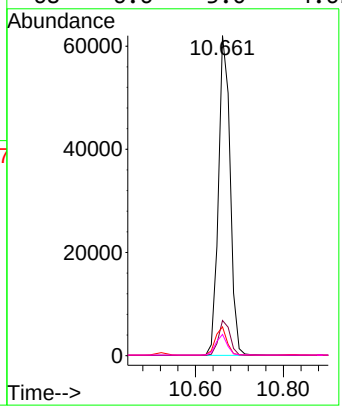


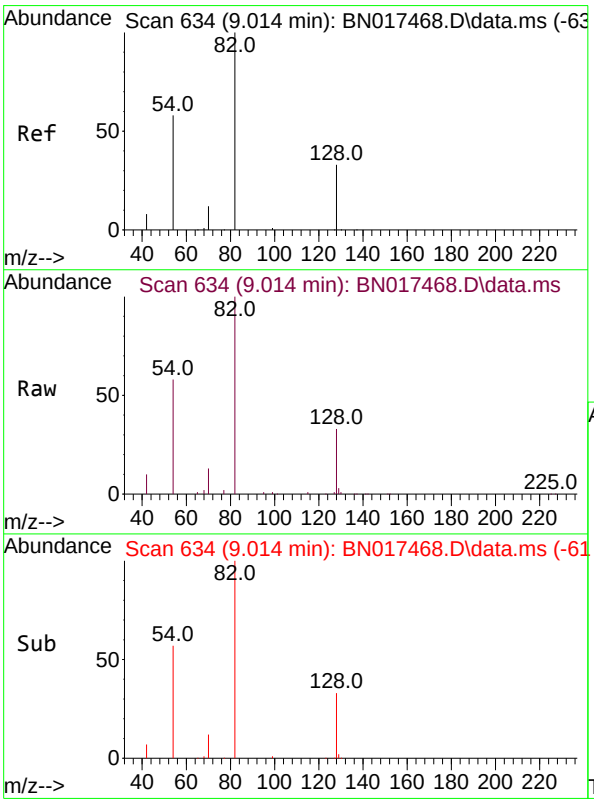
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.661 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 114365

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	9.0	4.0	6.0#
68	6.6	3.0	4.6#

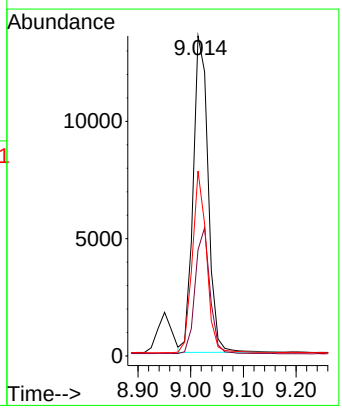


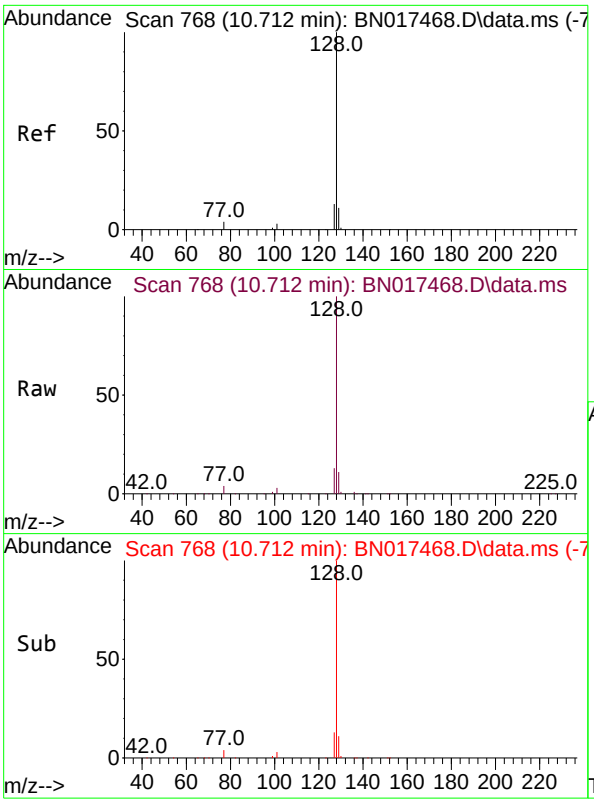


#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 9.014 min Scan# 634
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion: 82 Resp: 26748

Ion	Ratio	Lower	Upper
82	100		
128	33.2	27.7	41.5
54	57.8	49.2	73.8



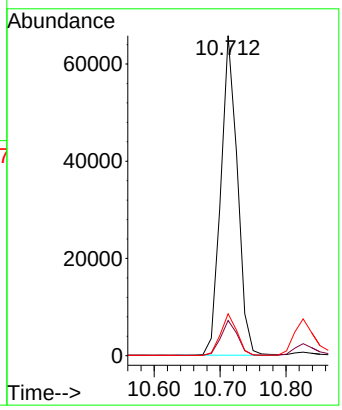


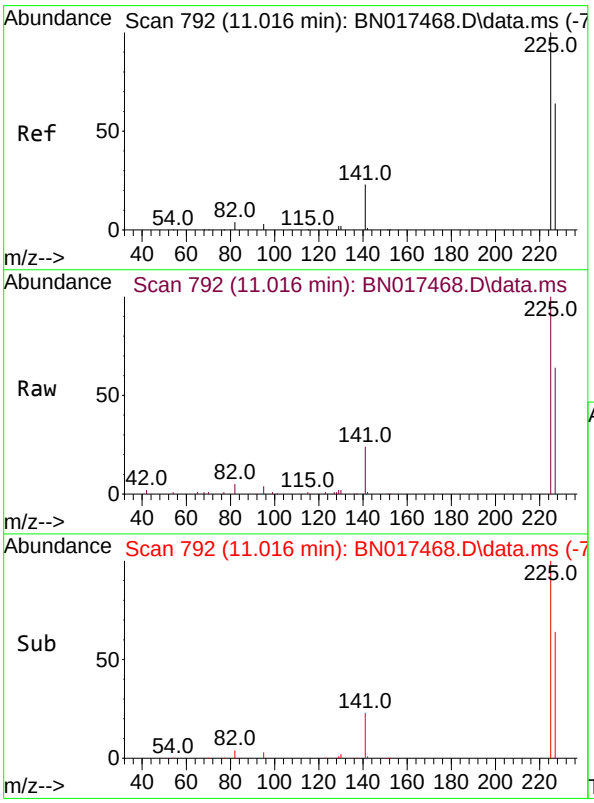
#9
Naphthalene
Concen: 0.382 ng
RT: 10.712 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 114997

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.1	10.6	15.8

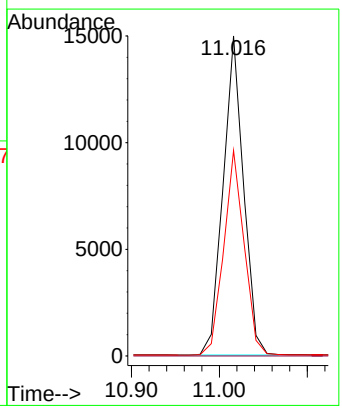


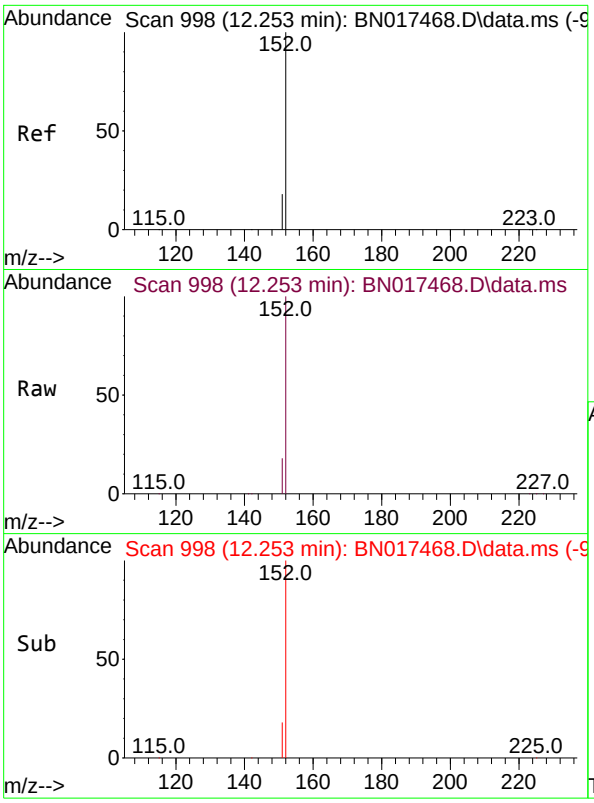


#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 11.016 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:225 Resp: 24092

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.1	76.7



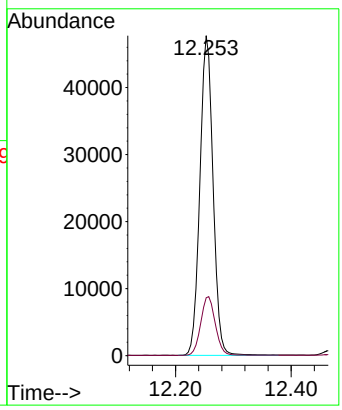


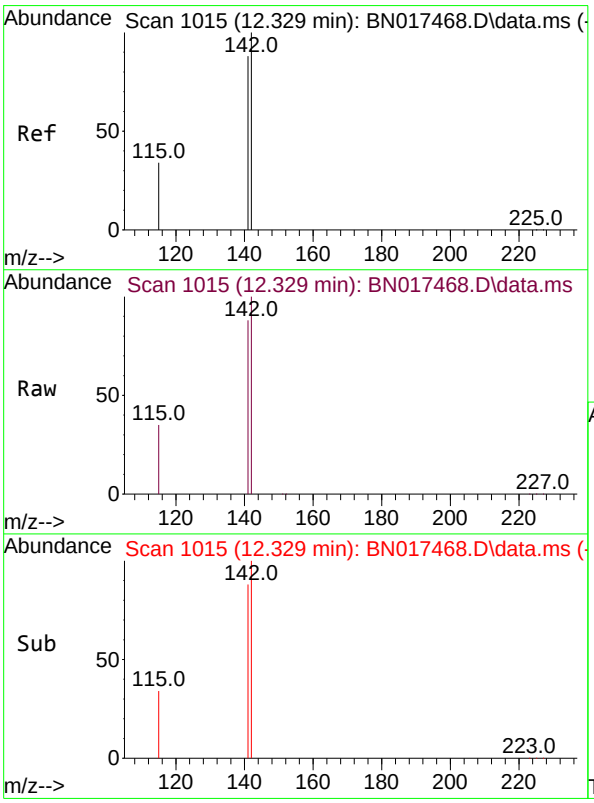
#11
2-Methylnaphthalene-d10
Concen: 0.448 ng
RT: 12.253 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 75486

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

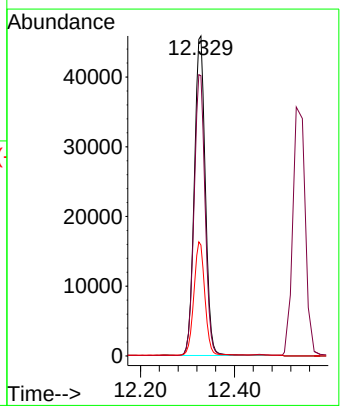


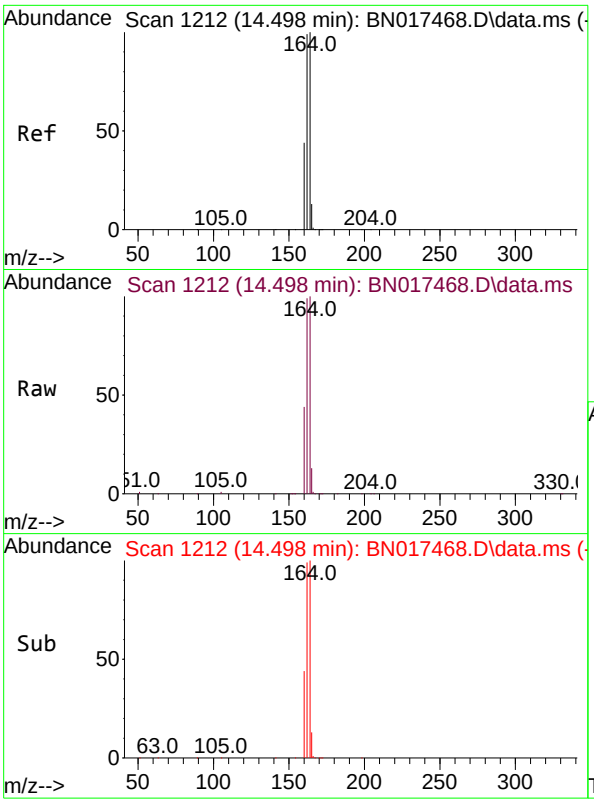


#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.329 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:142 Resp: 74292

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.6	106.0
115	34.6	25.8	38.6



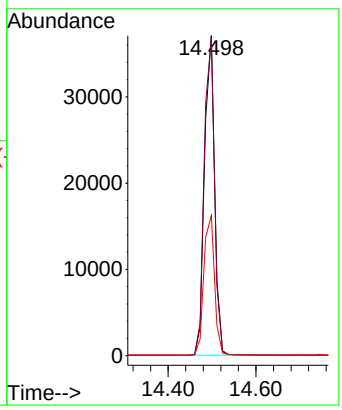


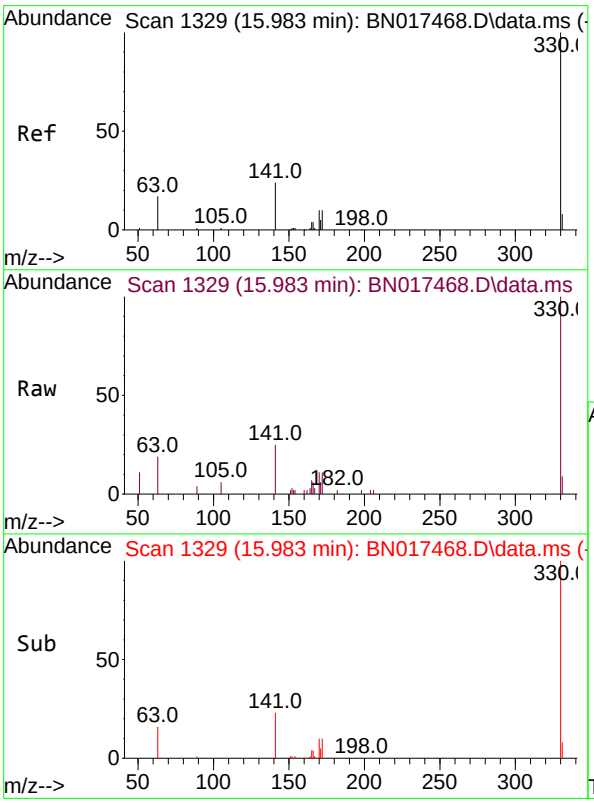
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.498 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 58889

Ion	Ratio	Lower	Upper
164	100		
162	99.4	81.4	122.2
160	43.8	36.8	55.2

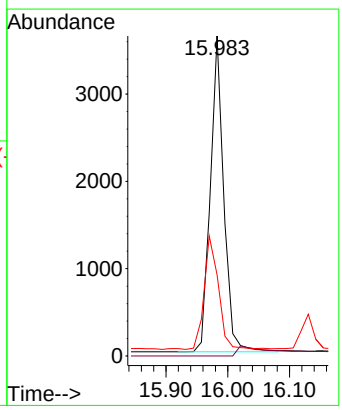


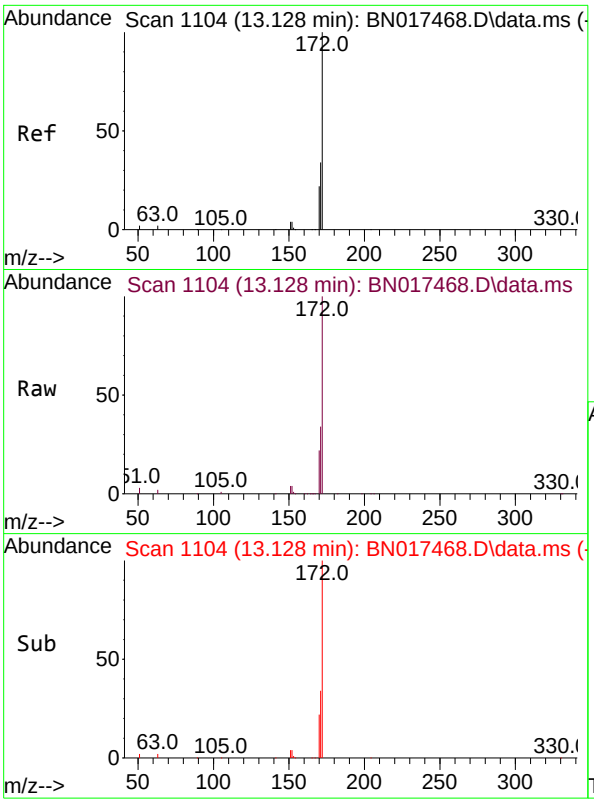


#14
2,4,6-Tribromophenol
Concen: 0.246 ng
RT: 15.983 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:330 Resp: 5407

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	38.2	28.9	43.3



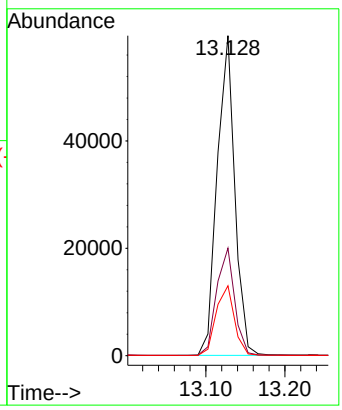


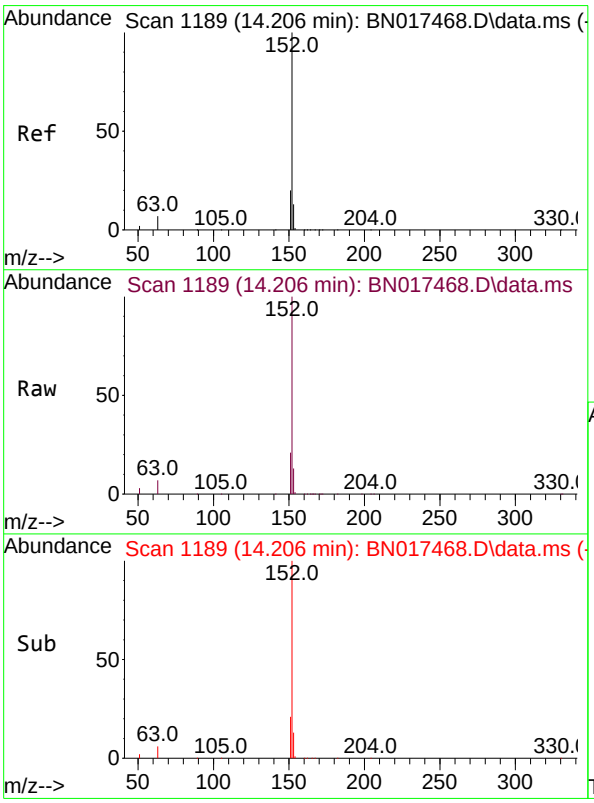
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 13.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 92503

Ion	Ratio	Lower	Upper
172	100		
171	33.6	28.7	43.1
170	21.8	19.4	29.2

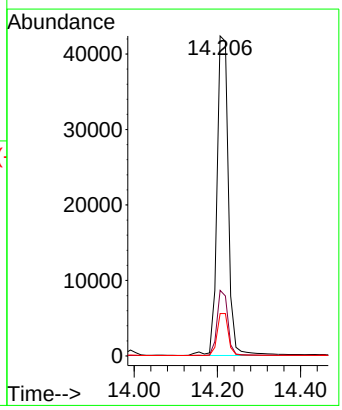


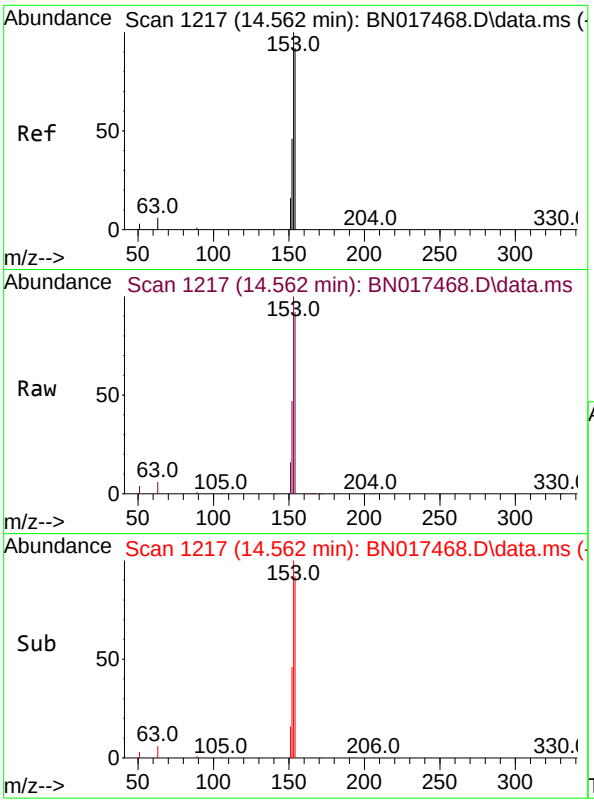


#16
Acenaphthylene
Concen: 0.333 ng
RT: 14.206 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:152 Resp: 79981

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.5	23.3
153	13.2	10.4	15.6



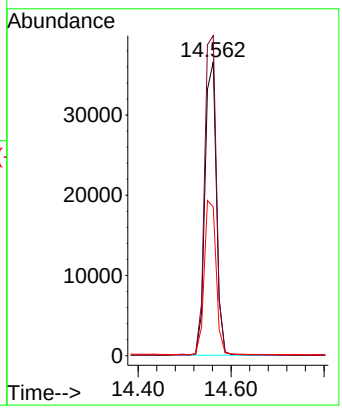


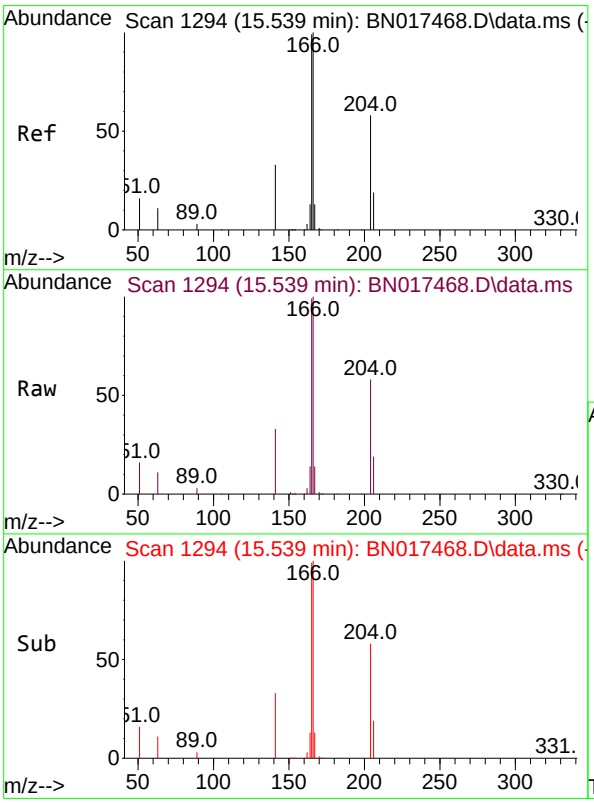
#17
Acenaphthene
Concen: 0.380 ng
RT: 14.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 62897

Ion	Ratio	Lower	Upper
154	100		
153	112.4	91.2	136.8
152	54.2	44.3	66.5

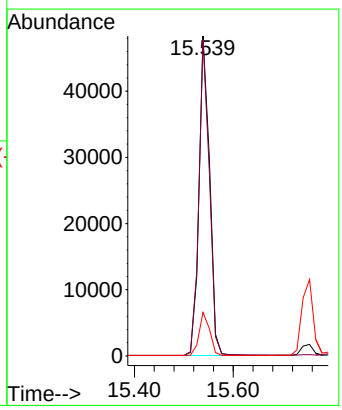


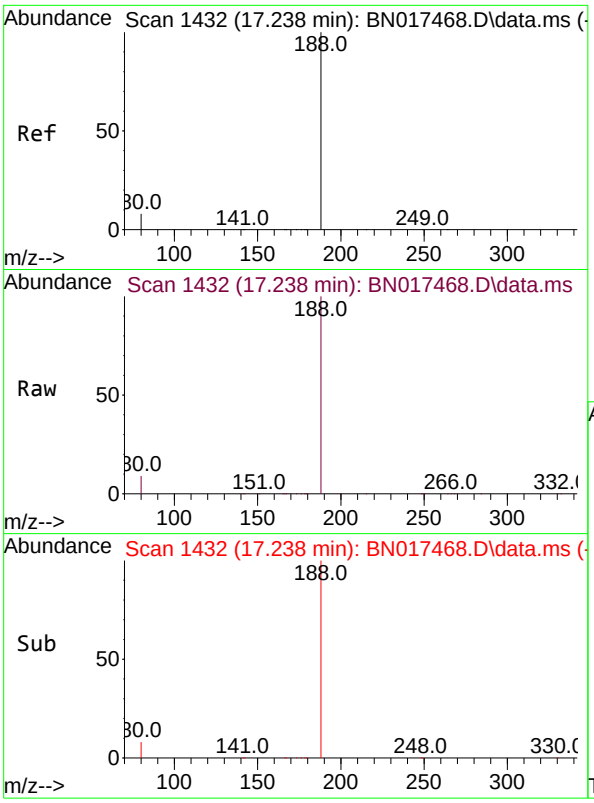


#18
Fluorene
Concen: 0.366 ng
RT: 15.539 min Scan# 1294
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:166 Resp: 72257

Ion	Ratio	Lower	Upper
166	100		
165	97.8	77.9	116.9
167	13.5	10.9	16.3



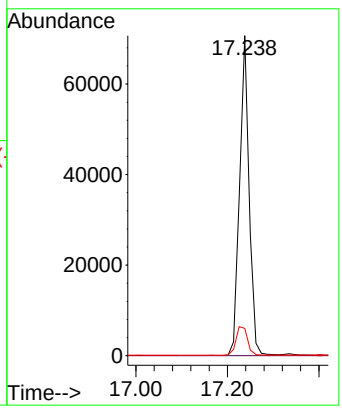


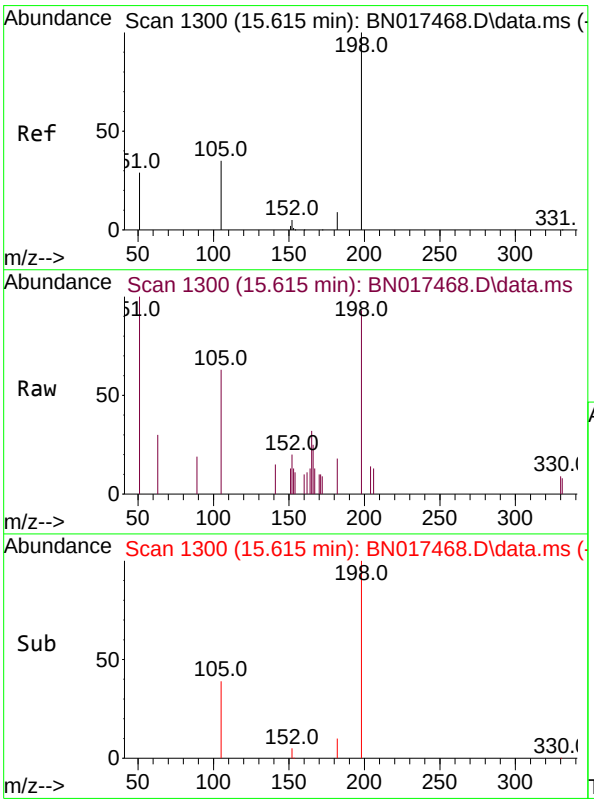
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.238 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 101410

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	6.1	9.1

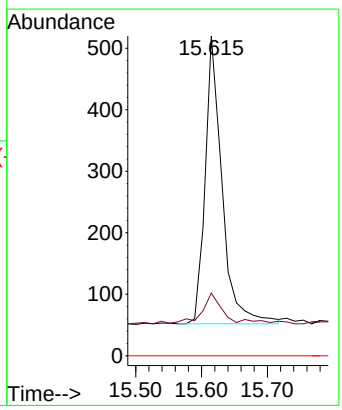


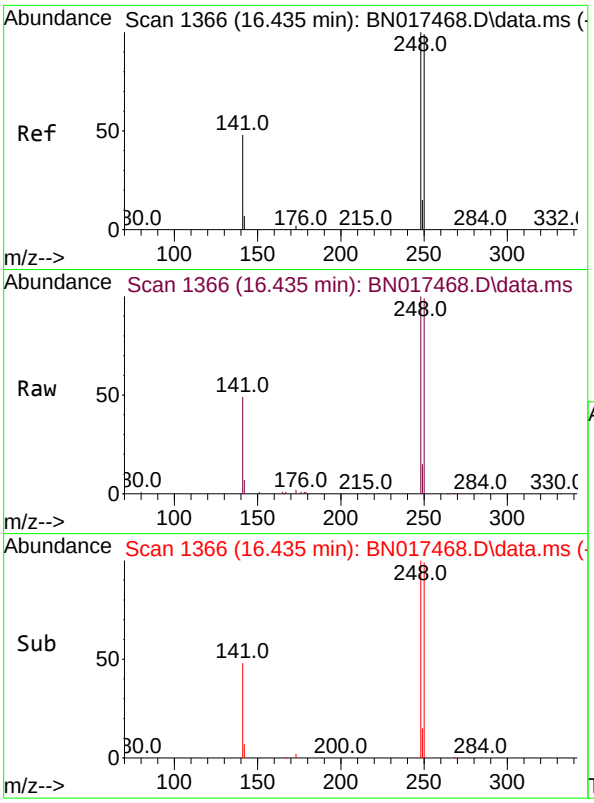


#20
4,6-Dinitro-2-methylphenol
Concen: 0.080 ng
RT: 15.615 min Scan# 1300
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:198 Resp: 835

Ion	Ratio	Lower	Upper
198	100		
182	19.6	11.4	17.2#
77	0.0	0.0	0.0



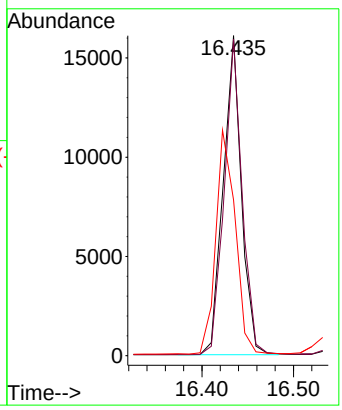


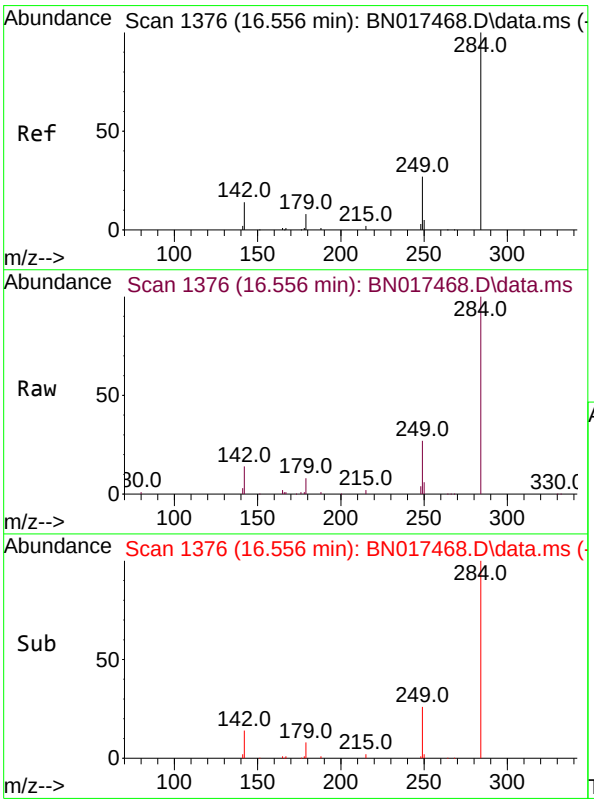
#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 22159

Ion	Ratio	Lower	Upper
248	100		
250	98.9	71.8	107.8
141	48.7	70.9	106.3#

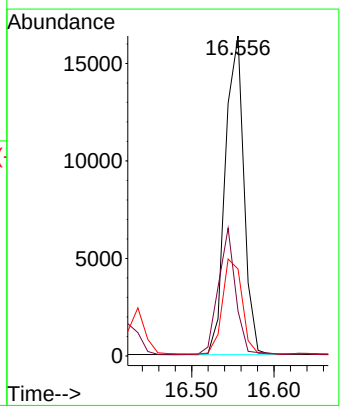


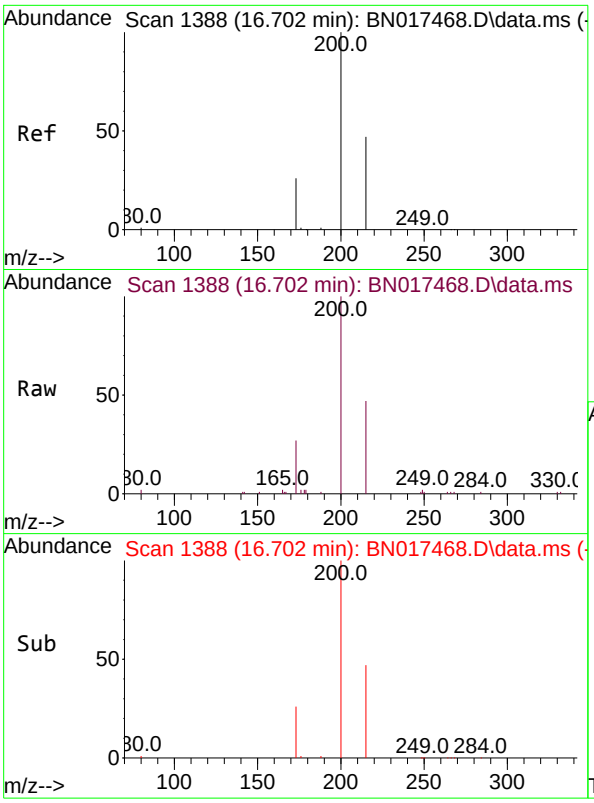


#22
Hexachlorobenzene
Concen: 0.402 ng
RT: 16.556 min Scan# 1376
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:284 Resp: 25627

Ion	Ratio	Lower	Upper
284	100		
142	36.9	28.2	42.2
249	31.4	24.4	36.6



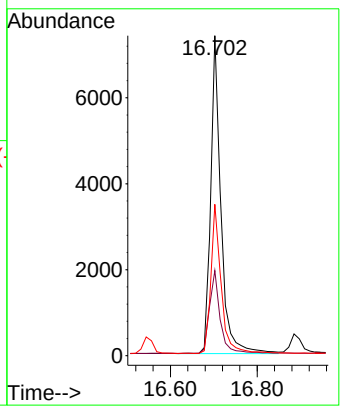


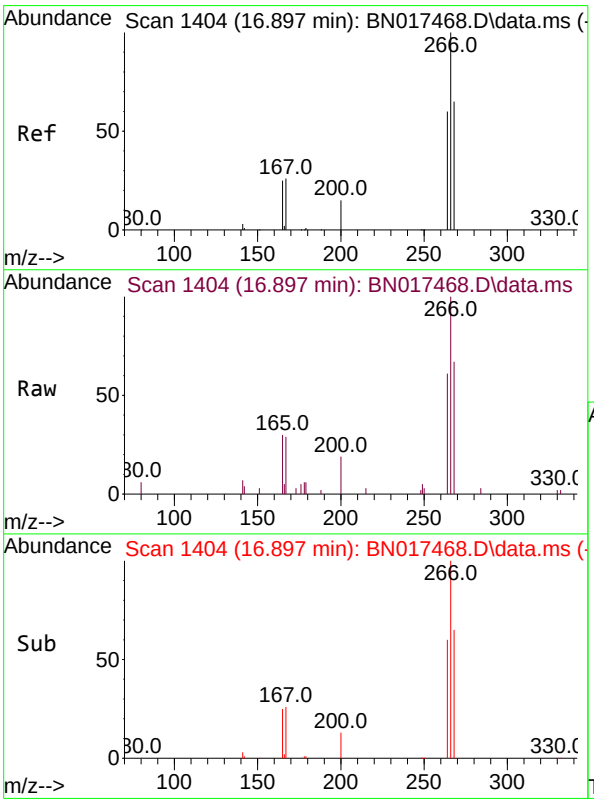
#23
Atrazine
Concen: 0.315 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 12076

Ion	Ratio	Lower	Upper
200	100		
173	26.6	17.6	26.4#
215	47.3	40.2	60.4

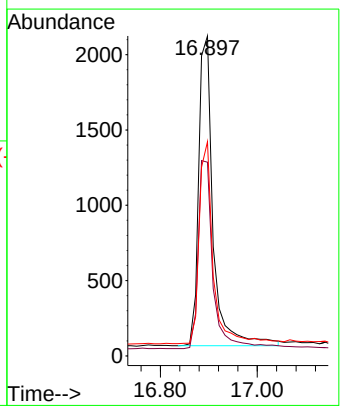


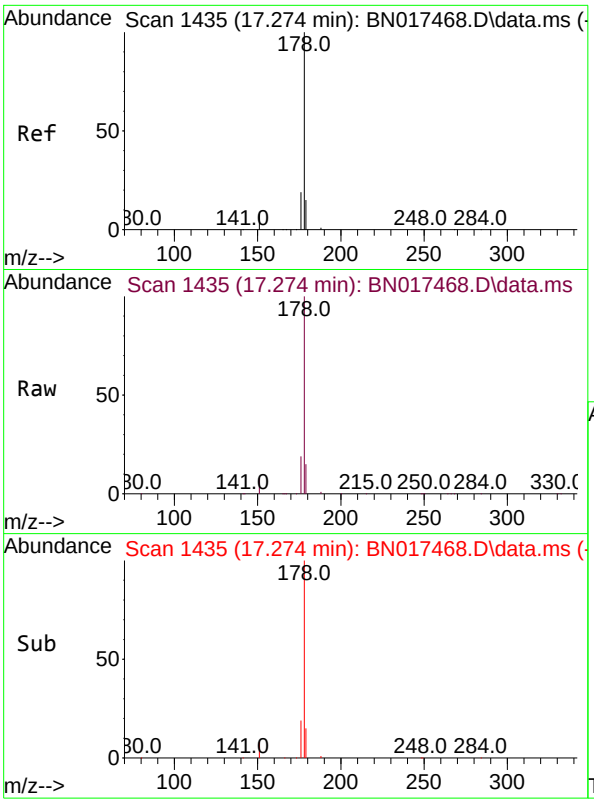


#24
Pentachlorophenol
Concen: 0.190 ng
RT: 16.897 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:266 Resp: 4262

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.8	74.8
268	62.7	51.3	76.9



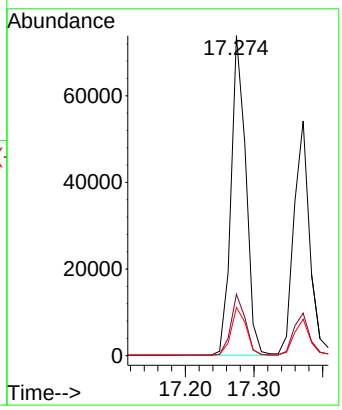


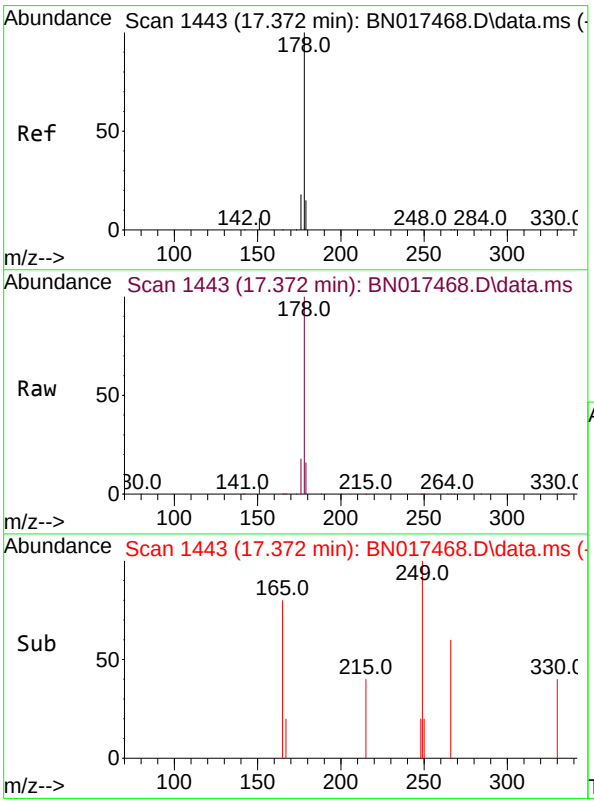
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.274 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 110609

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.3	18.5

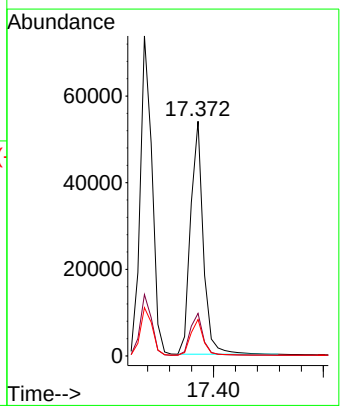


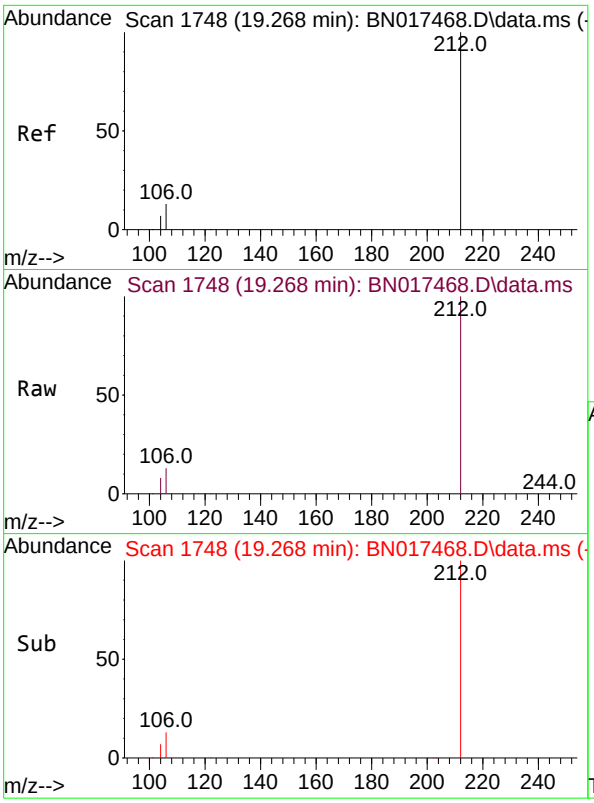


#26
Anthracene
Concen: 0.357 ng
RT: 17.372 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:178 Resp: 86486

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.3	12.2	18.4



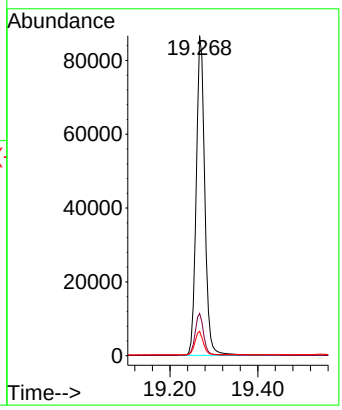


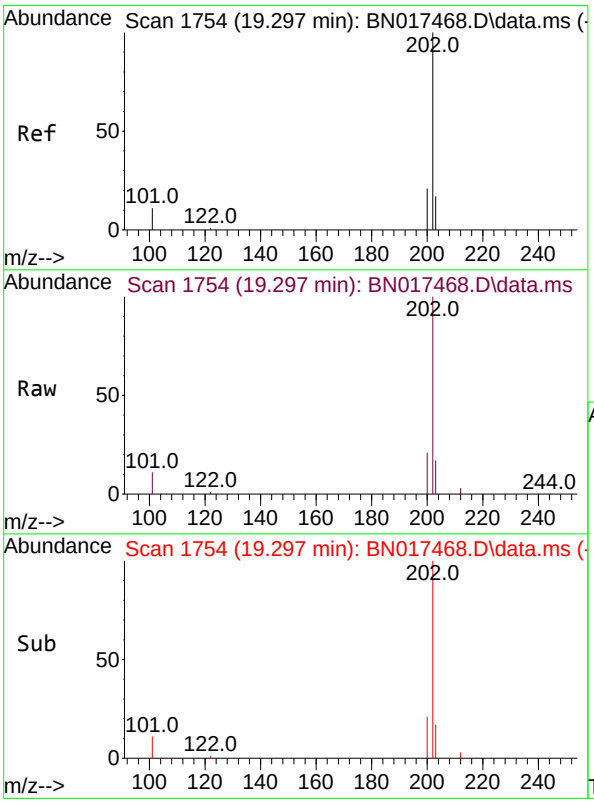
#27
Fluoranthene-d10
Concen: 0.454 ng
RT: 19.268 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 117398

Ion	Ratio	Lower	Upper
212	100		
106	13.1	10.5	15.7
104	7.2	5.8	8.6

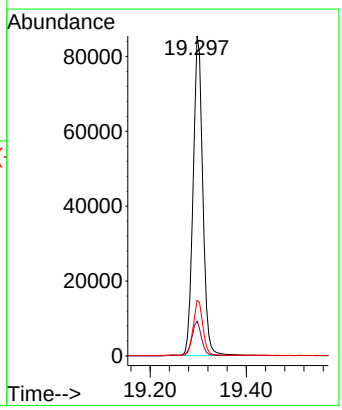


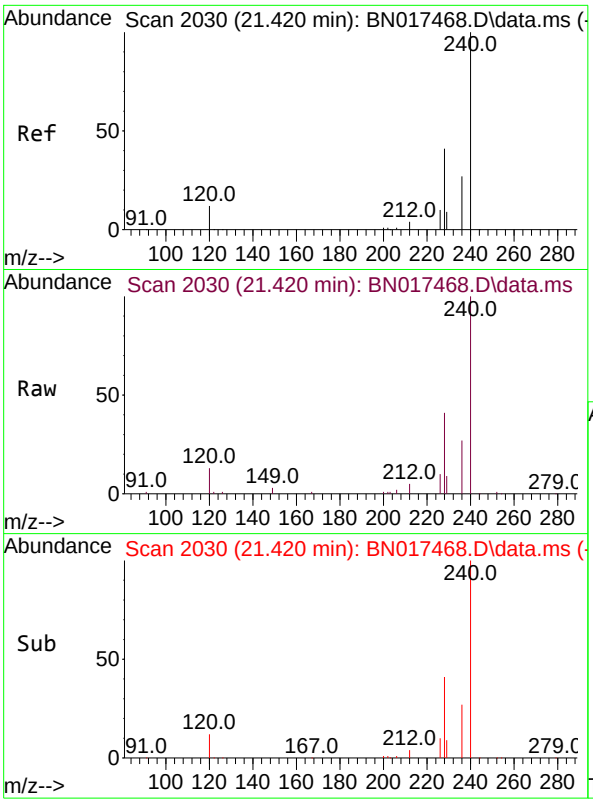


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.297 min Scan# 1754
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:202 Resp: 119256

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.9	13.3
203	17.2	13.8	20.6



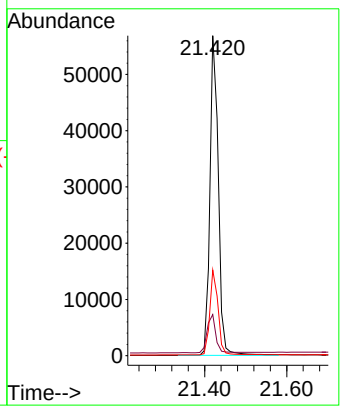


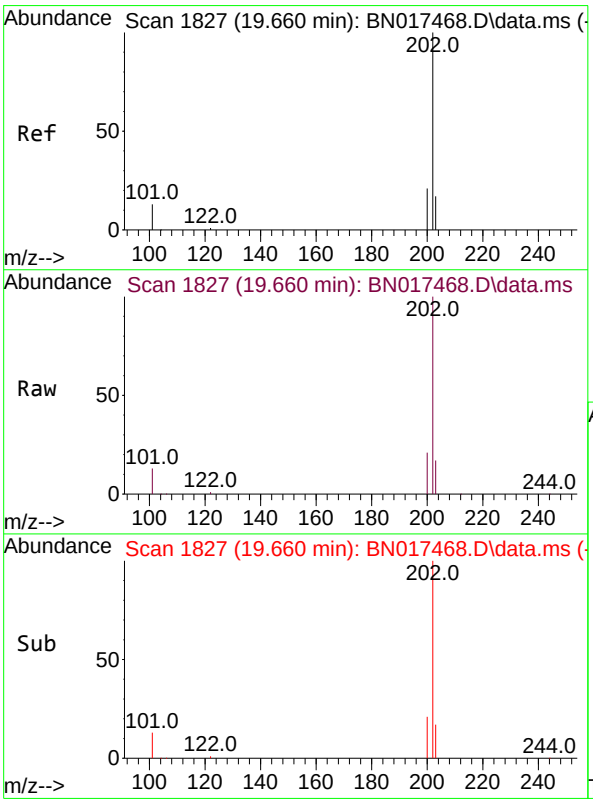
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 81078

Ion	Ratio	Lower	Upper
240	100		
120	12.9	4.2	6.2#
236	26.7	20.0	30.0

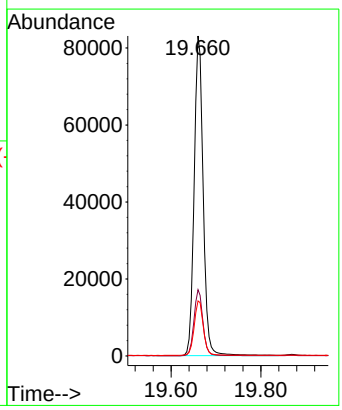


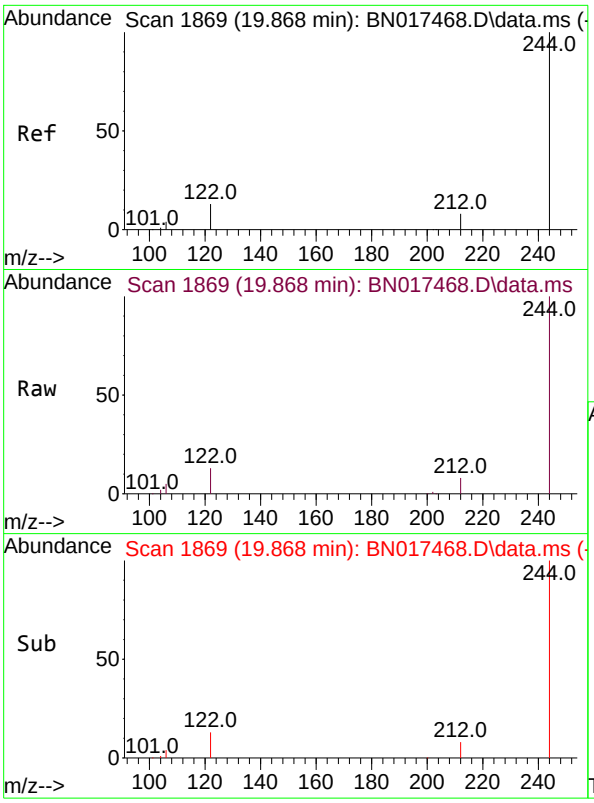


#30
Pyrene
Concen: 0.445 ng
RT: 19.660 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:202 Resp: 116659

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.5	24.7
203	17.3	14.0	21.0



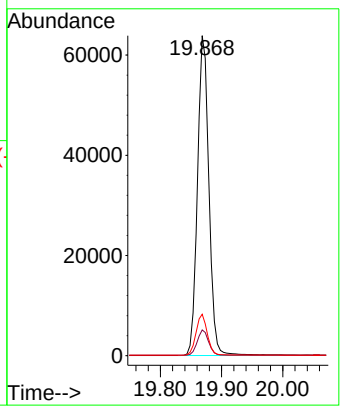


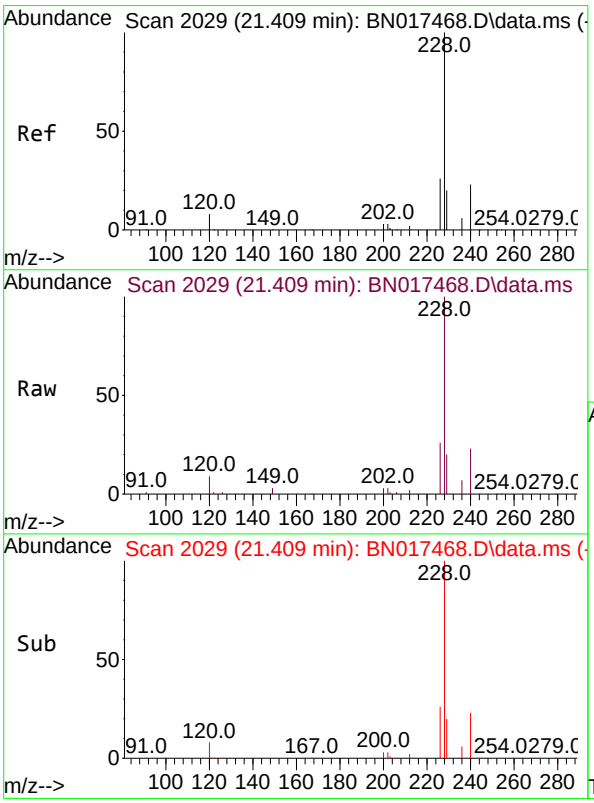
#31
Terphenyl-d14
Concen: 0.457 ng
RT: 19.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 82585

Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.7	8.5
122	13.0	8.6	13.0#

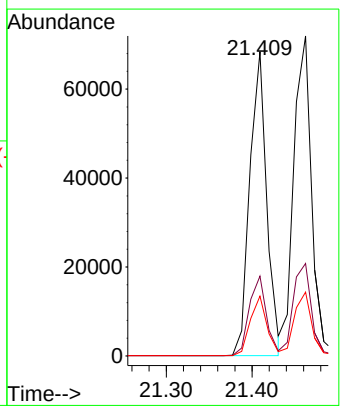


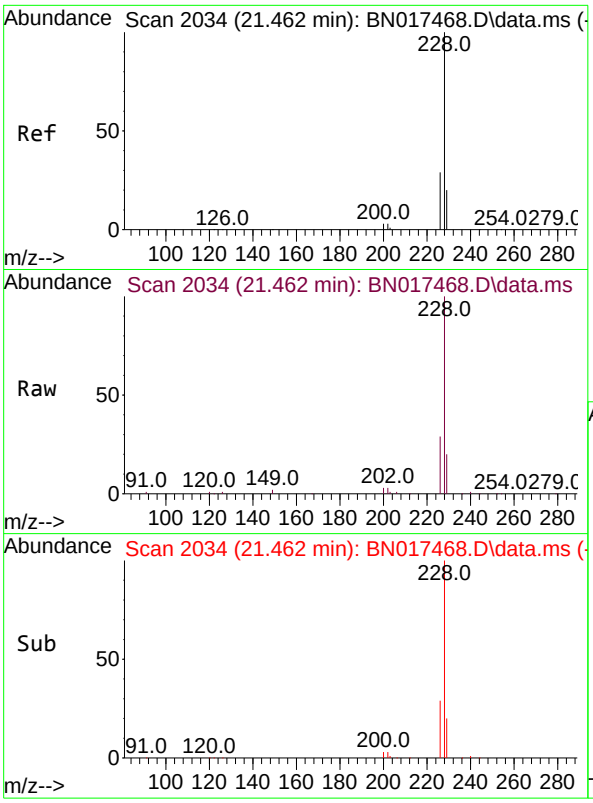


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.409 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:228 Resp: 93793

Ion	Ratio	Lower	Upper
228	100		
226	26.2	21.3	31.9
229	19.7	15.7	23.5



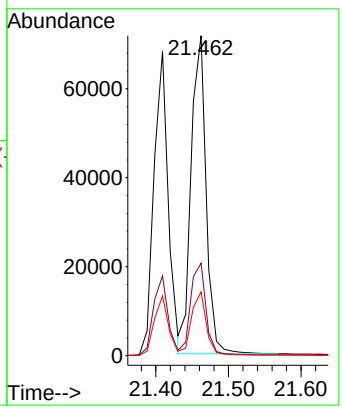


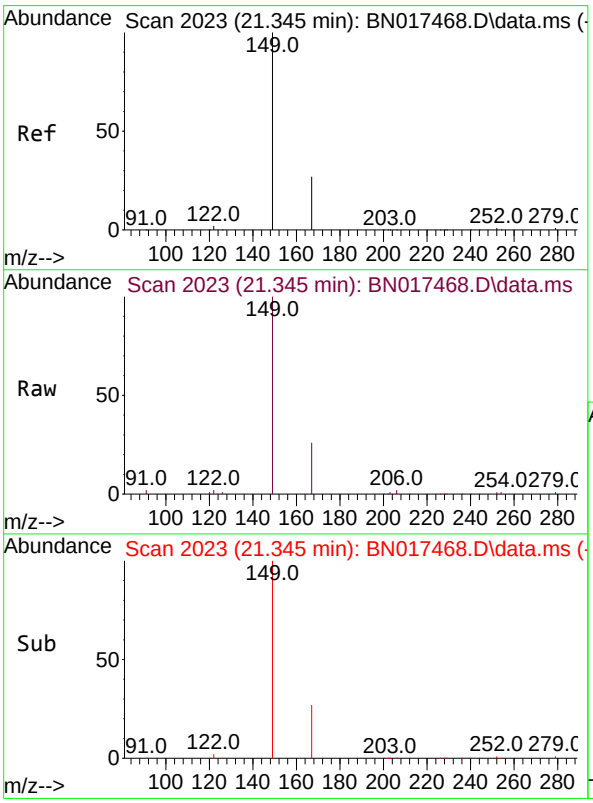
#33
Chrysene
Concen: 0.392 ng
RT: 21.462 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 102736

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.3	34.9
229	20.0	15.6	23.4

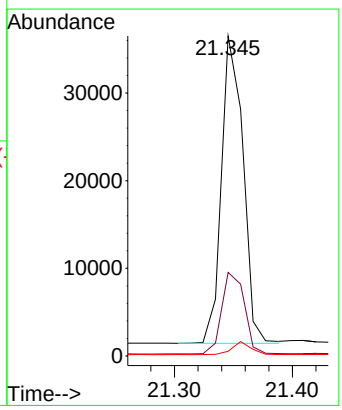


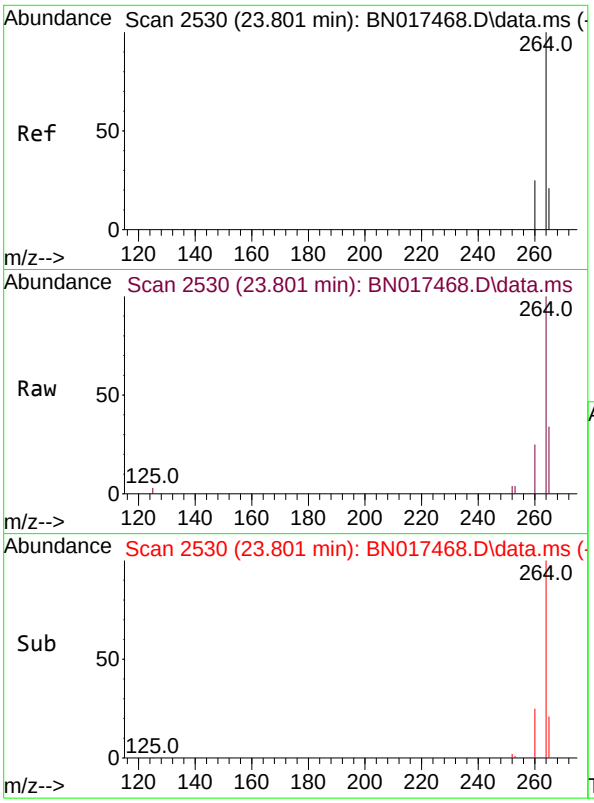


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.513 ng
RT: 21.345 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:149 Resp: 44550

Ion	Ratio	Lower	Upper
149	100		
167	28.1	21.8	32.6
279	3.8	3.4	5.0



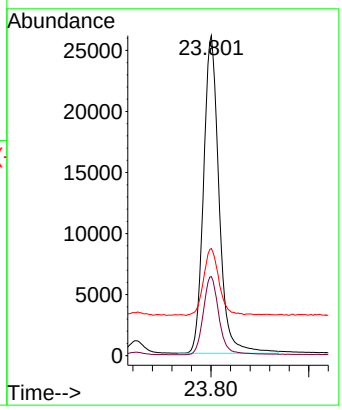


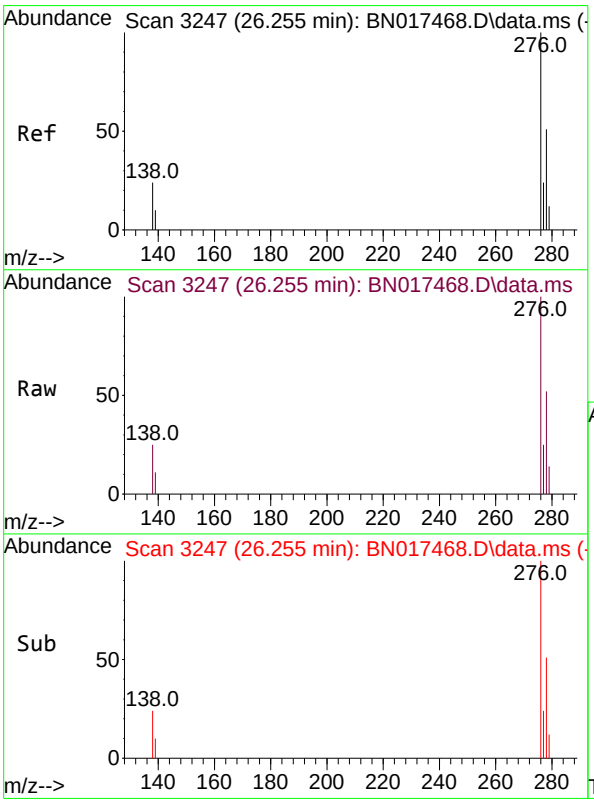
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.801 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 57478

Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.2
265	33.5	18.6	28.0#

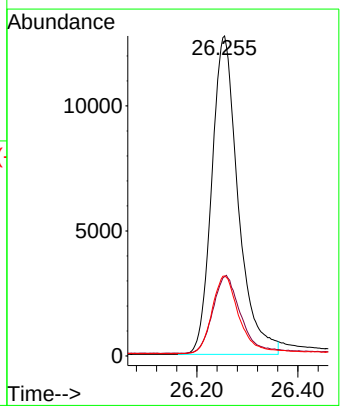


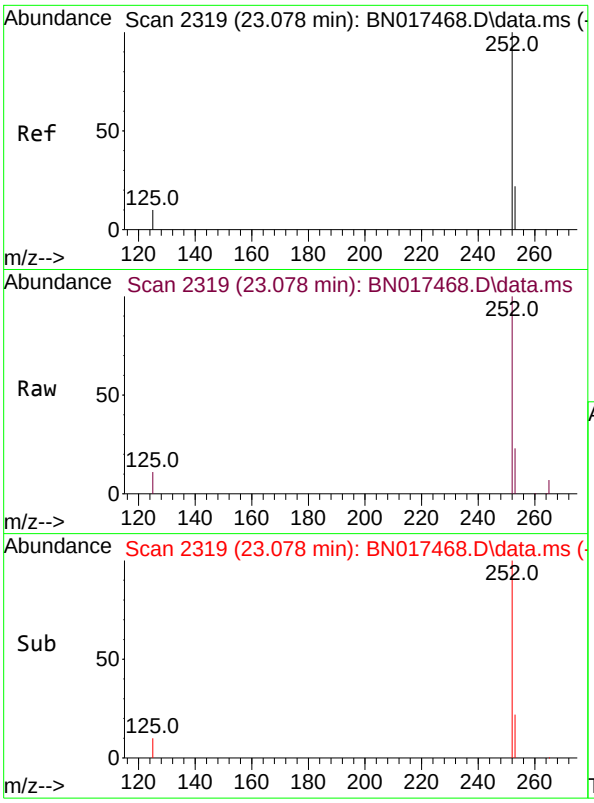


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.230 ng
RT: 26.255 min Scan# 3247
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:276 Resp: 46212

Ion	Ratio	Lower	Upper
276	100		
138	25.6	19.7	29.5
277	25.0	20.0	30.0



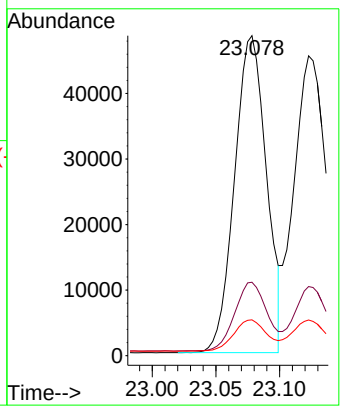


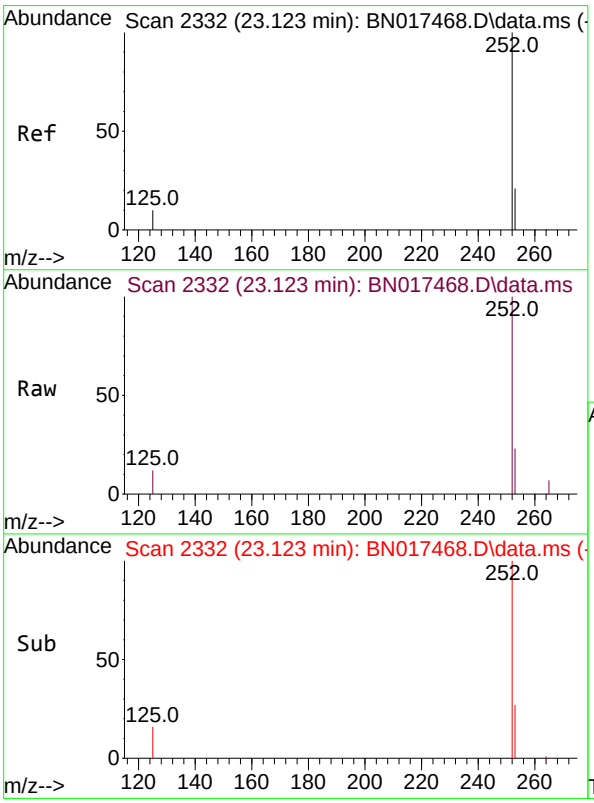
#37
Benzo(b)fluoranthene
Concen: 0.447 ng
RT: 23.078 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 84077

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	11.2	7.8	11.8

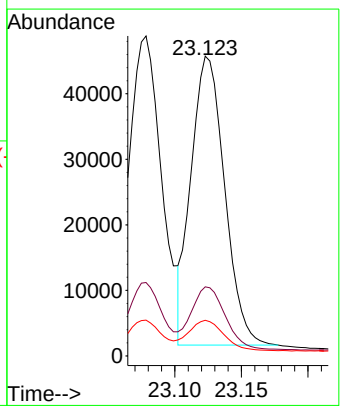


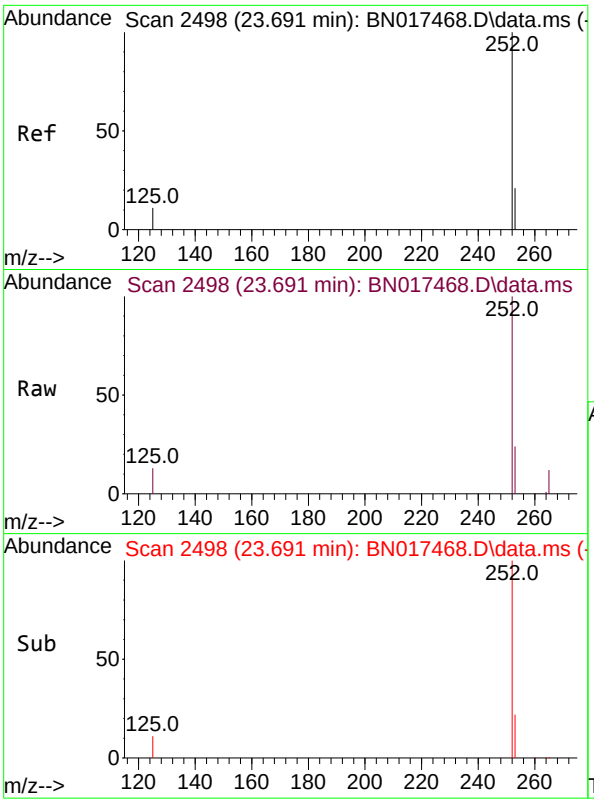


#38
Benzo(k)fluoranthene
Concen: 0.411 ng
RT: 23.123 min Scan# 2332
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:252 Resp: 77221

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.7	26.5
125	11.9	8.2	12.2



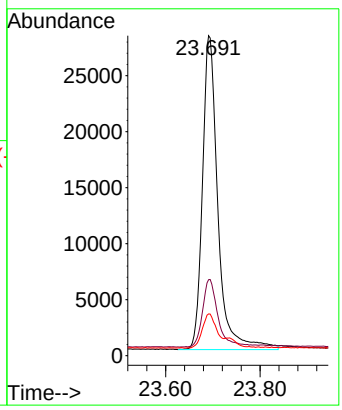


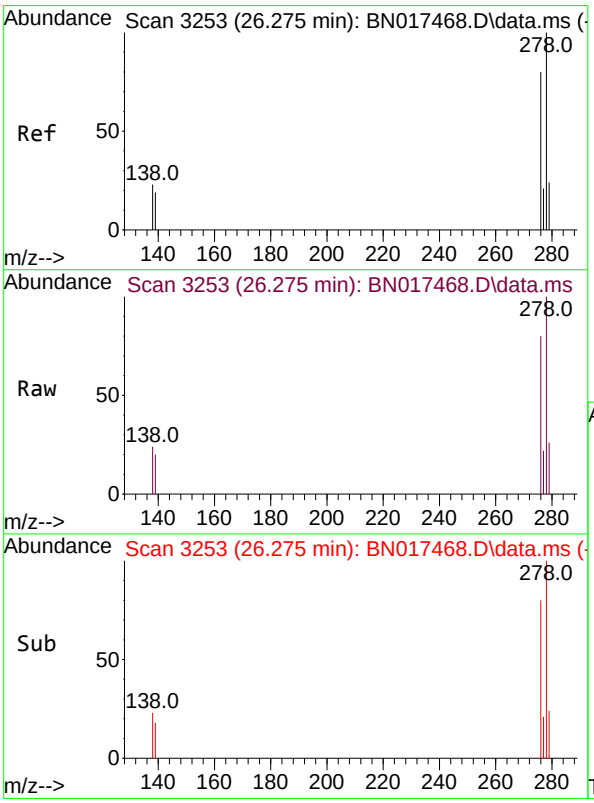
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 23.691 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 63610

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	13.1	9.2	13.8

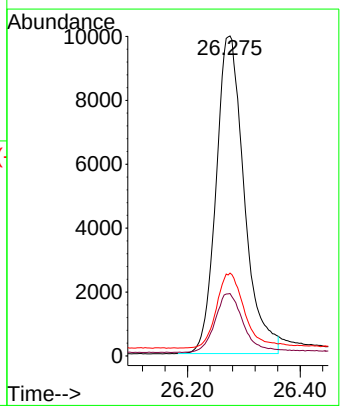


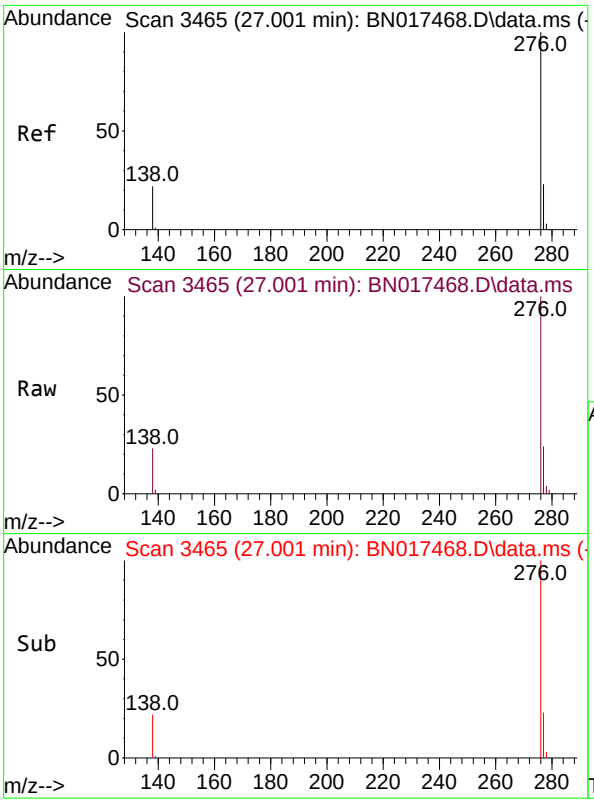


#40
Dibenzo(a,h)anthracene
Concen: 0.212 ng
RT: 26.275 min Scan# 3253
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Tgt Ion:278 Resp: 34391

Ion	Ratio	Lower	Upper
278	100		
139	19.5	13.0	19.6
279	25.9	19.2	28.8





#41
Benzo(g,h,i)perylene
Concen: 0.260 ng
RT: 27.001 min Scan# 34
Delta R.T. 0.000 min
Lab File: BN017468.D
Acq: 16 Nov 2021 10:06

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 45463

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	23.1	17.1	25.7