Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022724\
Data File : BN030087.D
Acq On : 27 Feb 2024 09:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Feb 28 00:18:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 26 02:39:45 2024
Response via : Initial Calibration

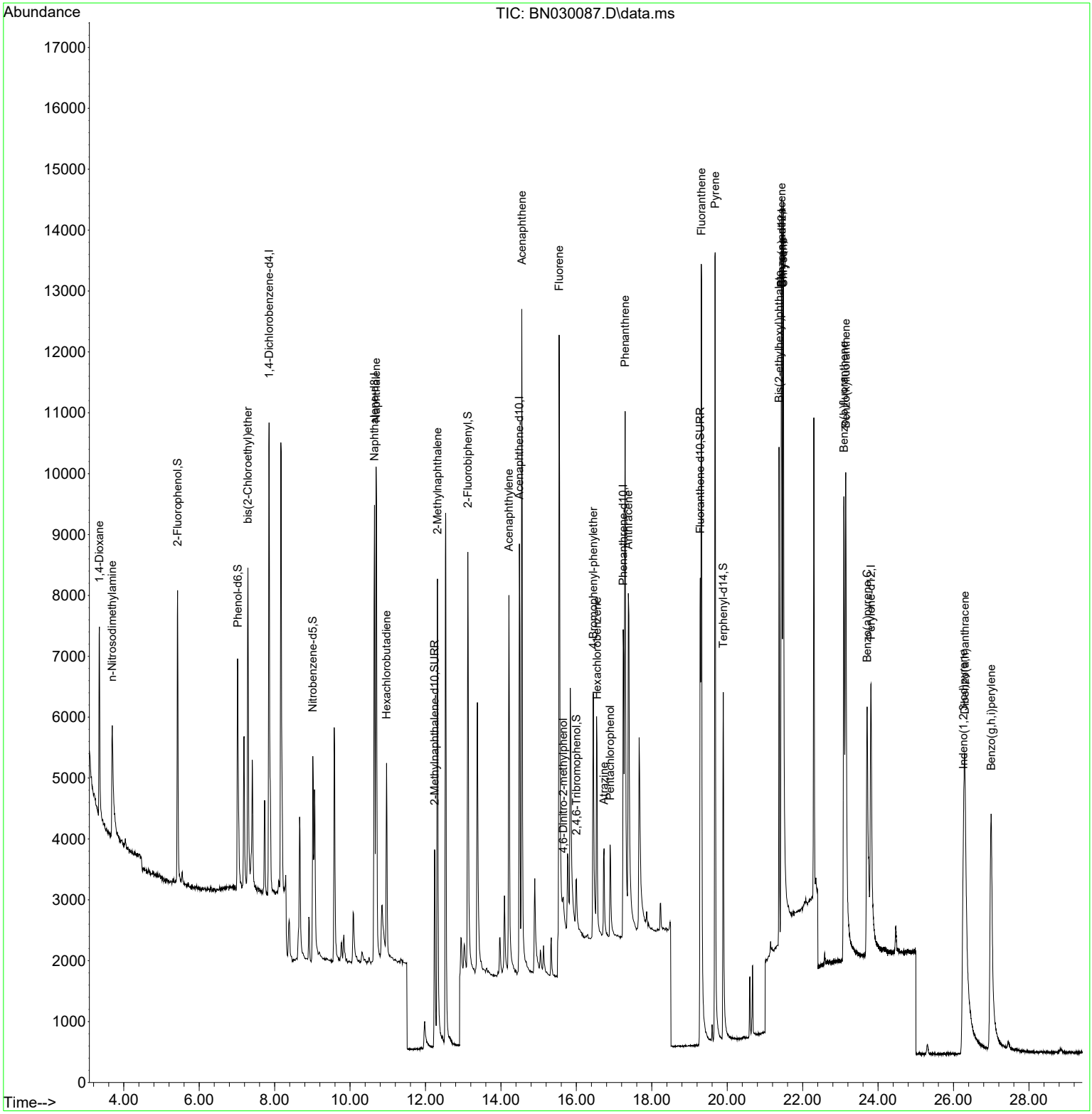
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.854	152	3958	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	10582	0.400	ng		0.00
13) Acenaphthene-d10	14.490	164	4871	0.400	ng		0.00
19) Phenanthrene-d10	17.243	188	10172	0.400	ng		#-0.01
29) Chrysene-d12	21.447	240	8187	0.400	ng		0.00
35) Perylene-d12	23.812	264	8068	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.428	112	4021	0.423	ng		0.00
5) Phenol-d6	7.024	99	4295	0.392	ng		0.00
8) Nitrobenzene-d5	9.014	82	3564	0.405	ng		0.00
11) 2-Methylnaphthalene-d10	12.242	152	5510	0.382	ng		0.00
14) 2,4,6-Tribromophenol	16.002	330	670	0.429	ng		0.00
15) 2-Fluorobiphenyl	13.121	172	7689	0.368	ng		0.00
27) Fluoranthene-d10	19.285	212	10703	0.434	ng		0.00
31) Terphenyl-d14	19.893	244	7660	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.355	88	2148	0.385	ng		91
3) n-Nitrosodimethylamine	3.694	42	2053	0.452	ng	#	92
6) bis(2-Chloroethyl)ether	7.291	93	4303	0.411	ng		100
9) Naphthalene	10.690	128	11926	0.396	ng		99
10) Hexachlorobutadiene	10.968	225	2422	0.424	ng	#	98
12) 2-Methylnaphthalene	12.318	142	6738	0.381	ng		99
16) Acenaphthylene	14.212	152	8151	0.352	ng		99
17) Acenaphthene	14.554	154	6145	0.396	ng		98
18) Fluorene	15.542	166	7351	0.377	ng		99
20) 4,6-Dinitro-2-methylph...	15.654	198	398	0.266	ng	#	77
21) 4-Bromophenyl-phenylether	16.448	248	1959	0.324	ng	#	86
22) Hexachlorobenzene	16.548	284	2967	0.400	ng		93
23) Atrazine	16.734	200	1659	0.385	ng		99
24) Pentachlorophenol	16.895	266	1012	0.430	ng		98
25) Phenanthrene	17.293	178	11212	0.373	ng		100
26) Anthracene	17.379	178	9264	0.361	ng		100
28) Fluoranthene	19.317	202	13945	0.412	ng		100
30) Pyrene	19.680	202	14557	0.386	ng		100
32) Benzo(a)anthracene	21.438	228	10471	0.374	ng		99
33) Chrysene	21.483	228	12873	0.405	ng		100
34) Bis(2-ethylhexyl)phtha...	21.375	149	7455	0.391	ng		100
36) Indeno(1,2,3-cd)pyrene	26.265	276	11908	0.367	ng	#	84
37) Benzo(b)fluoranthene	23.092	252	11125	0.386	ng		99
38) Benzo(k)fluoranthene	23.142	252	12225	0.405	ng		99
39) Benzo(a)pyrene	23.709	252	9957	0.396	ng		98
40) Dibenzo(a,h)anthracene	26.300	278	9752	0.378	ng		96
41) Benzo(g,h,i)perylene	26.999	276	11774	0.374	ng		98

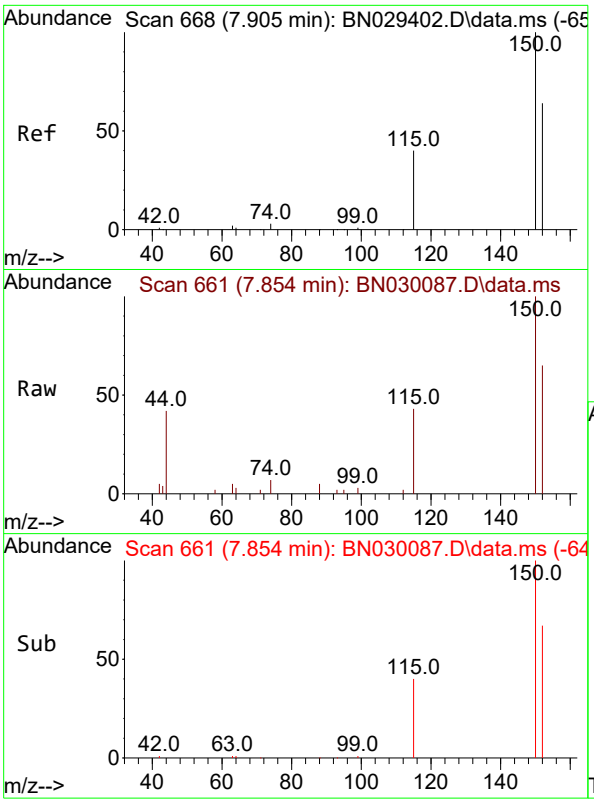
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022724\
Data File : BN030087.D
Acq On : 27 Feb 2024 09:51
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Feb 28 00:18:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 26 02:39:45 2024
Response via : Initial Calibration



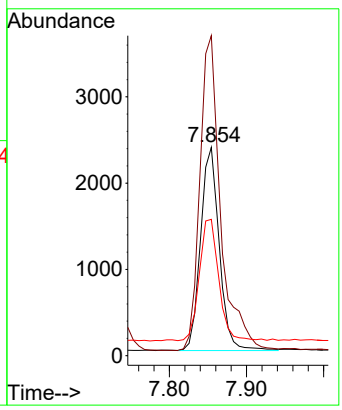


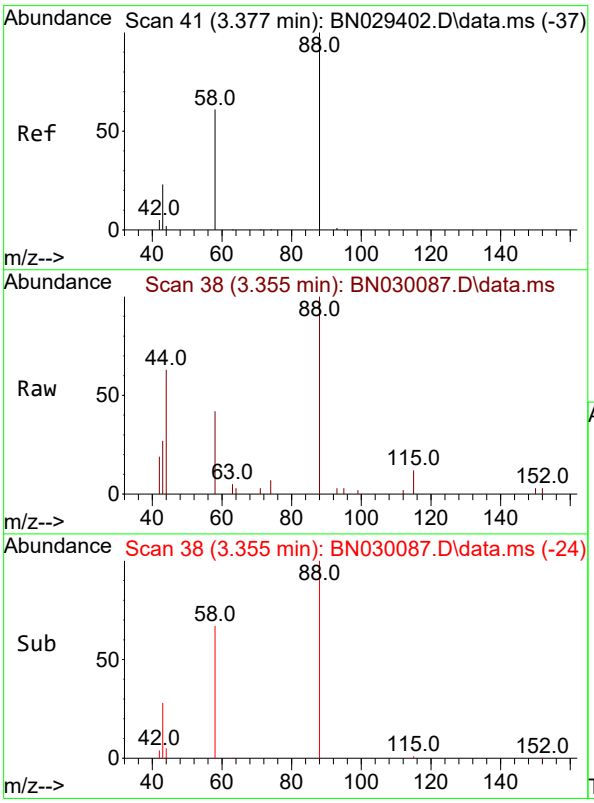
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.854 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3958

Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.0	184.4
115	65.4	51.4	77.0

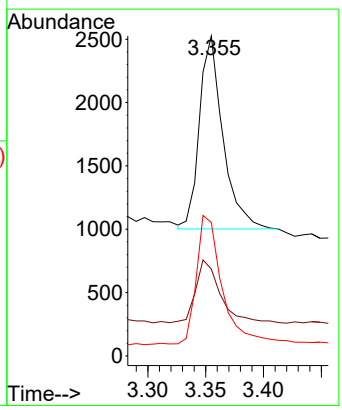


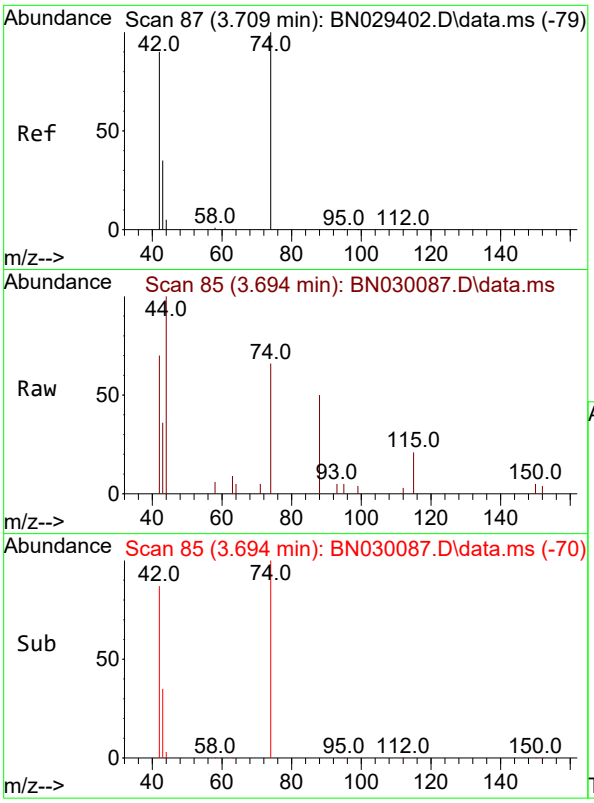


#2
1,4-Dioxane
Concen: 0.385 ng
RT: 3.355 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion: 88 Resp: 2148

Ion	Ratio	Lower	Upper
88	100		
43	33.6	23.3	34.9
58	75.2	53.8	80.6



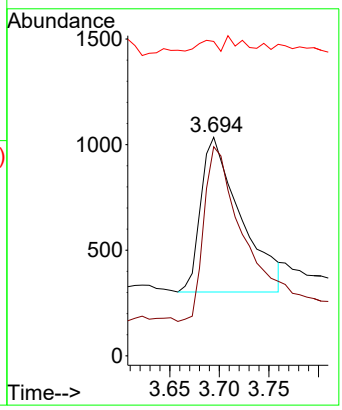


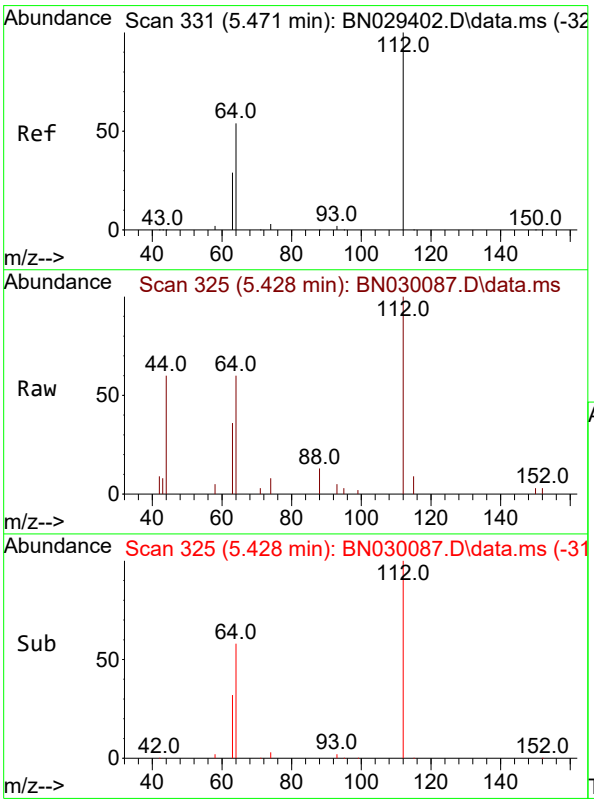
#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.694 min Scan# 8
Delta R.T. 0.007 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2053

Ion	Ratio	Lower	Upper
42	100		
74	112.3	93.7	140.5
44	3.3	13.0	19.4#

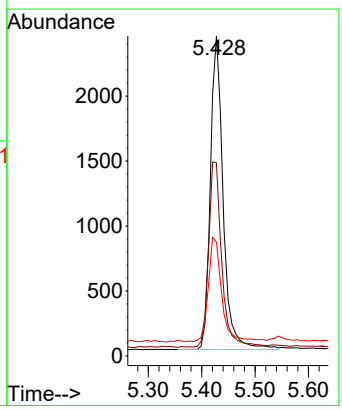


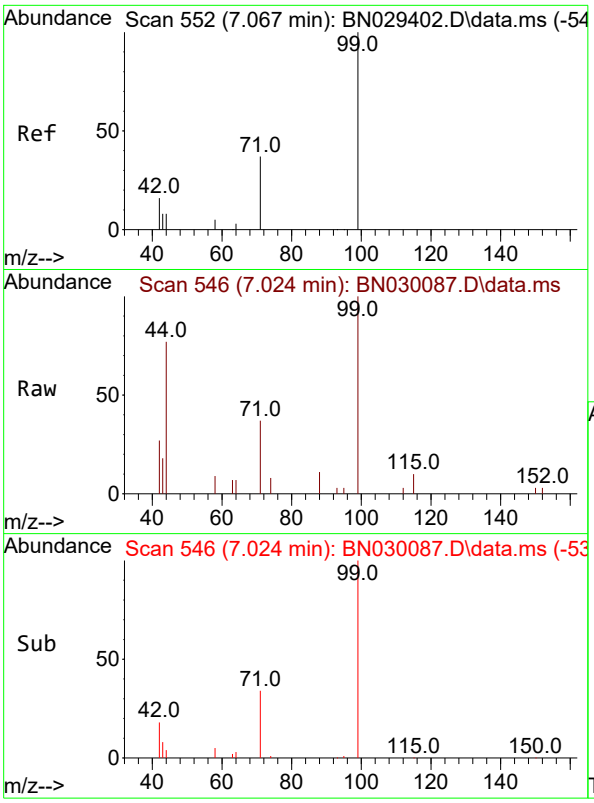


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.428 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:112 Resp: 4021

Ion	Ratio	Lower	Upper
112	100		
64	60.8	47.2	70.8
63	34.9	25.8	38.6



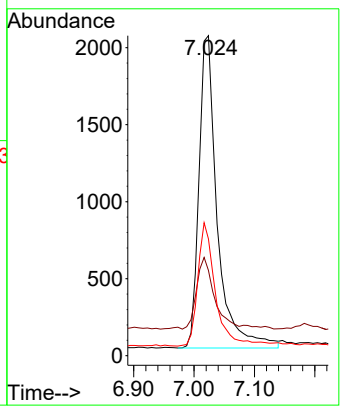


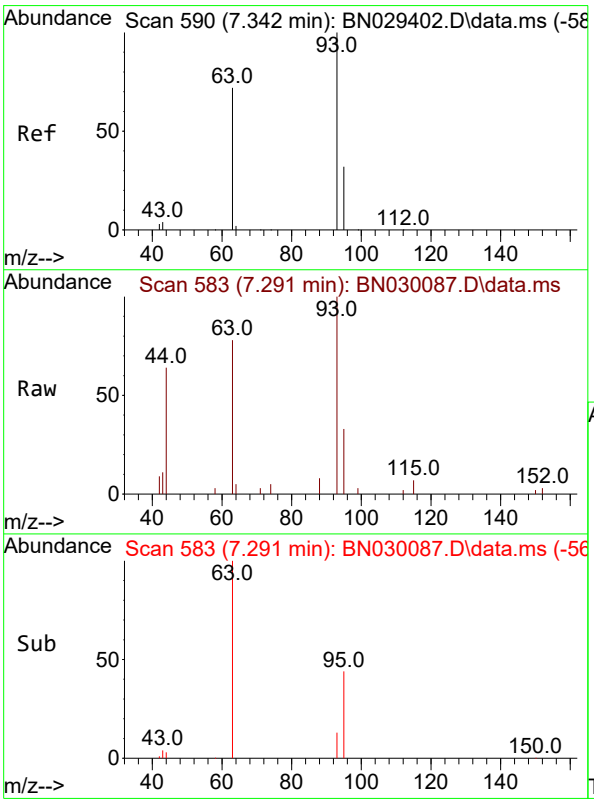
#5
Phenol-d6
Concen: 0.392 ng
RT: 7.024 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4295

Ion	Ratio	Lower	Upper
99	100		
42	23.4	16.9	25.3
71	38.5	30.0	45.0

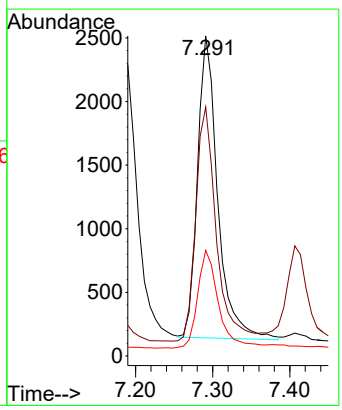


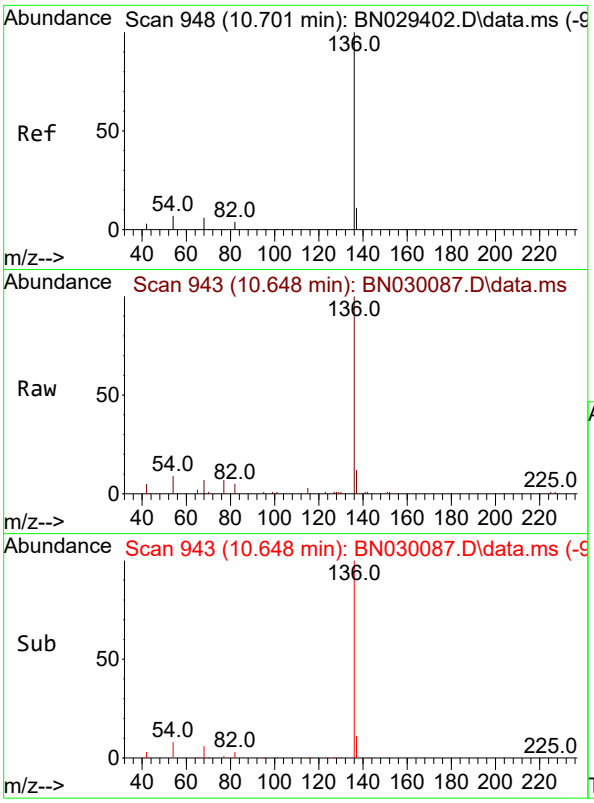


#6
bis(2-Chloroethyl)ether
Concen: 0.411 ng
RT: 7.291 min Scan# 583
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion: 93 Resp: 4303

Ion	Ratio	Lower	Upper
93	100		
63	78.8	63.1	94.7
95	33.6	27.1	40.7



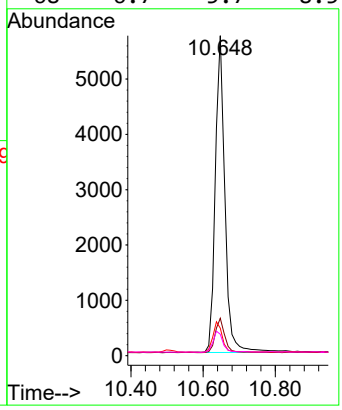


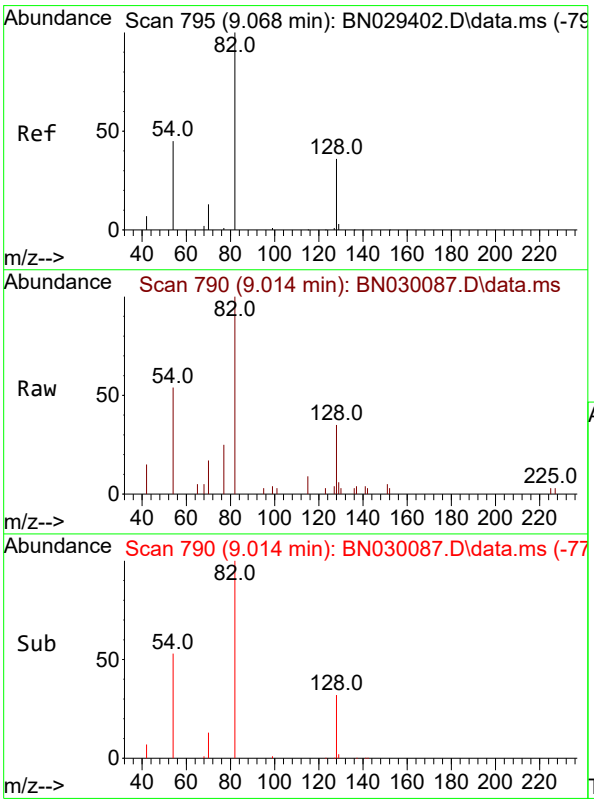
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 10582

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	8.6	6.6	10.0
68	6.7	5.7	8.5

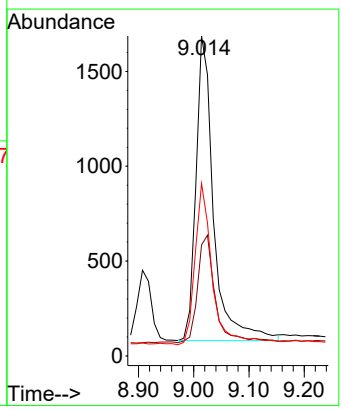


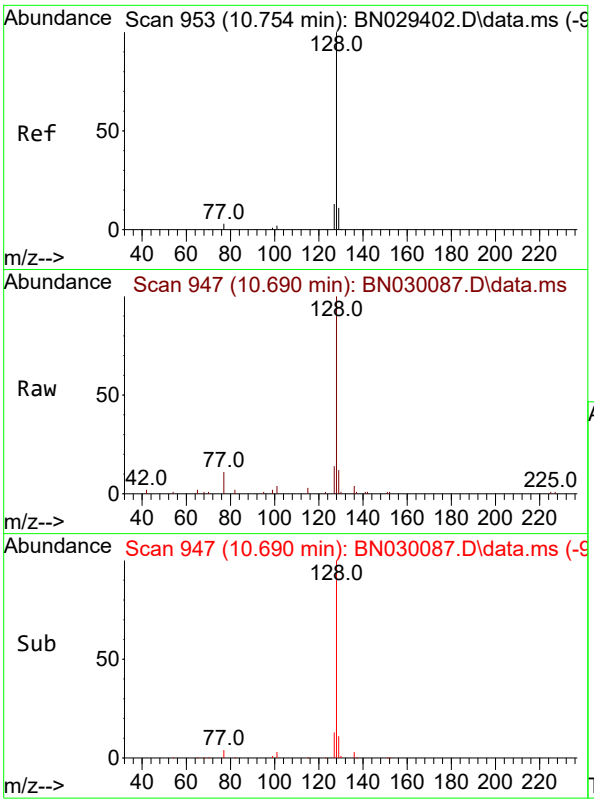


#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 9.014 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion: 82 Resp: 3564

Ion	Ratio	Lower	Upper
82	100		
128	34.7	31.6	47.4
54	53.9	38.2	57.4



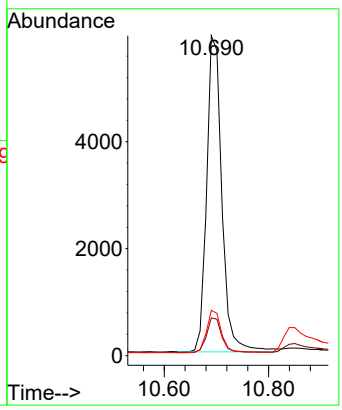


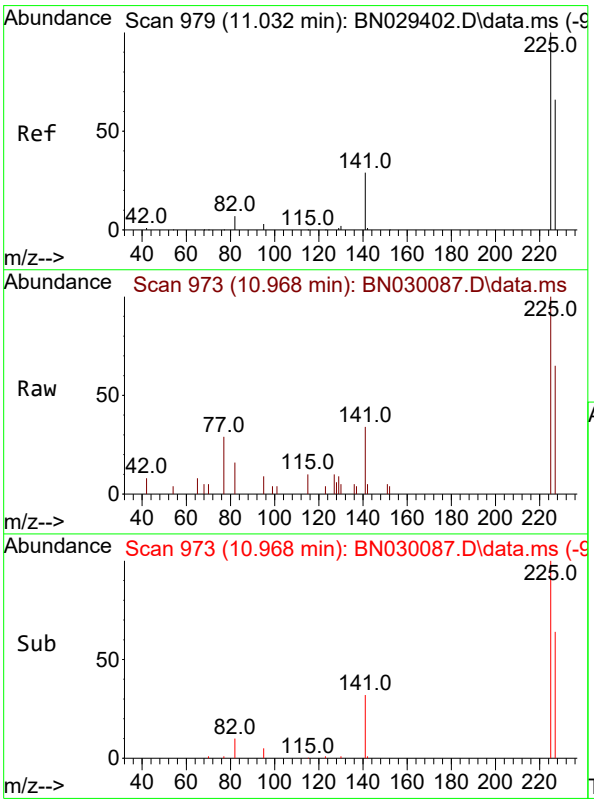
#9
Naphthalene
Concen: 0.396 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 11926

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.5	14.3
127	14.2	10.8	16.2

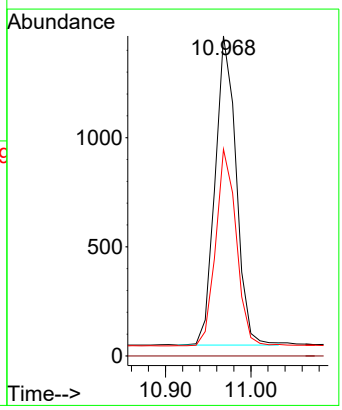


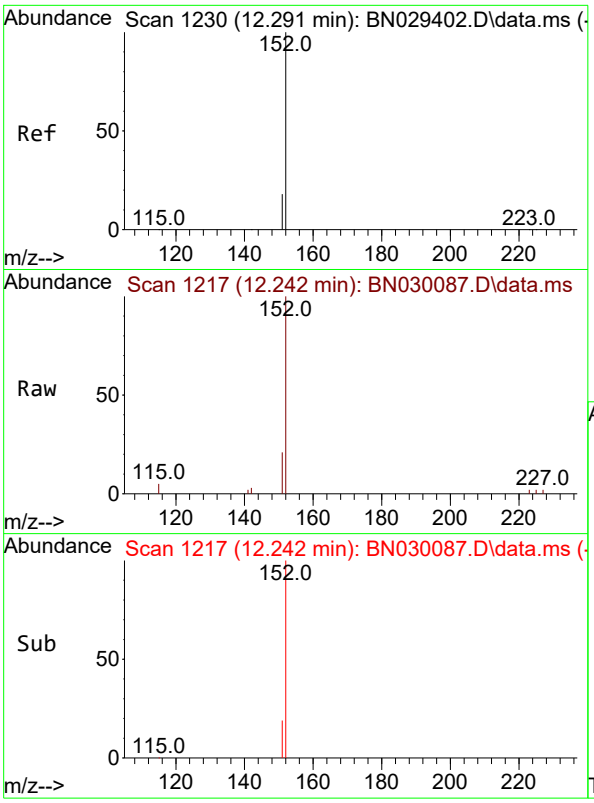


#10
Hexachlorobutadiene
Concen: 0.424 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:225 Resp: 2422

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.2	51.1	76.7



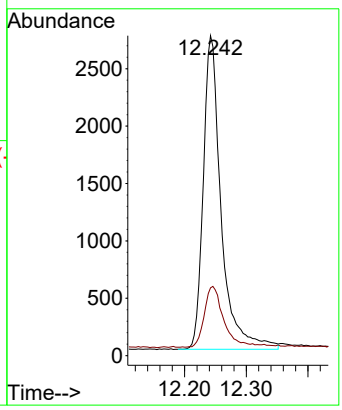


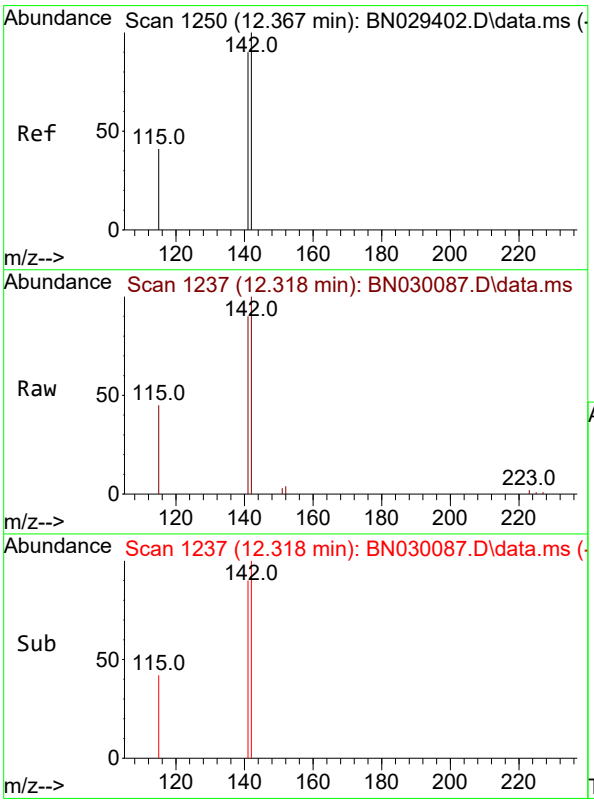
#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.242 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5510

Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.1	25.7

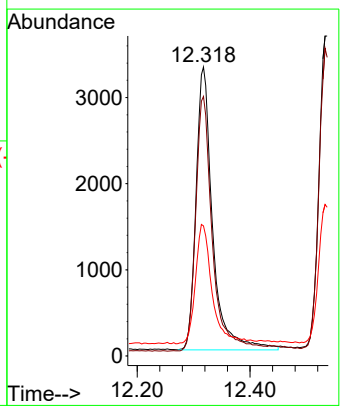


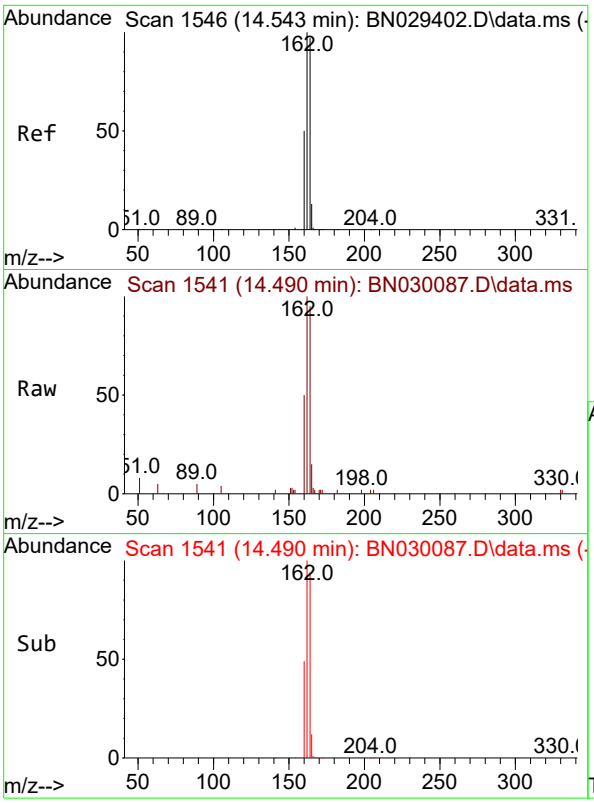


#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 12.318 min Scan# 1237
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:142 Resp: 6738

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.9	107.9
115	45.1	33.9	50.9



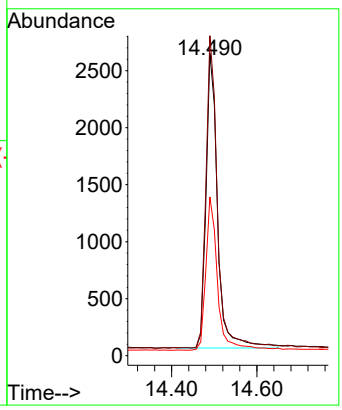


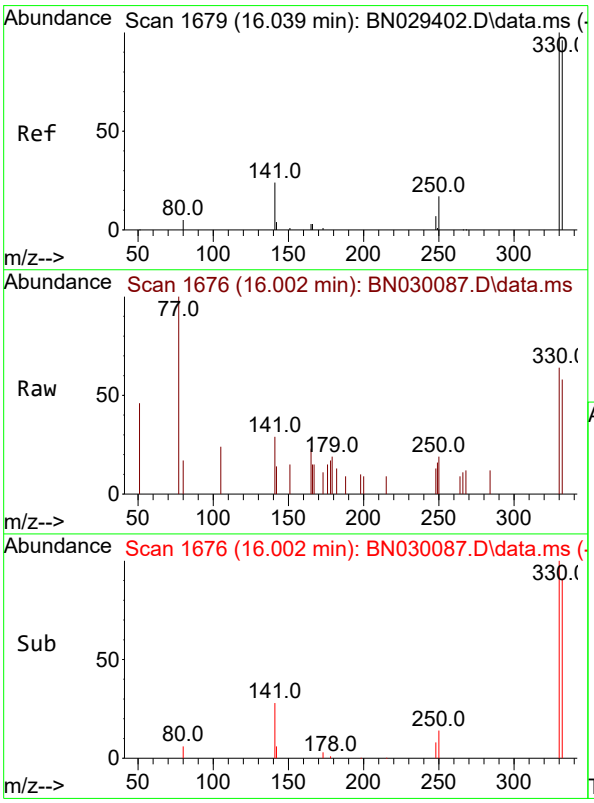
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.490 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4871

Ion	Ratio	Lower	Upper
164	100		
162	105.7	82.6	123.8
160	52.4	41.5	62.3

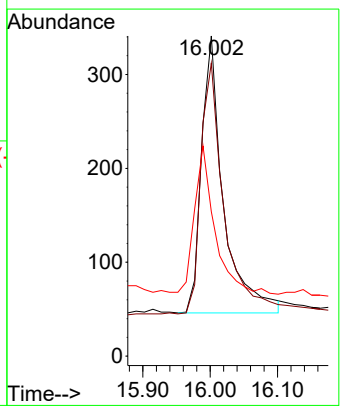


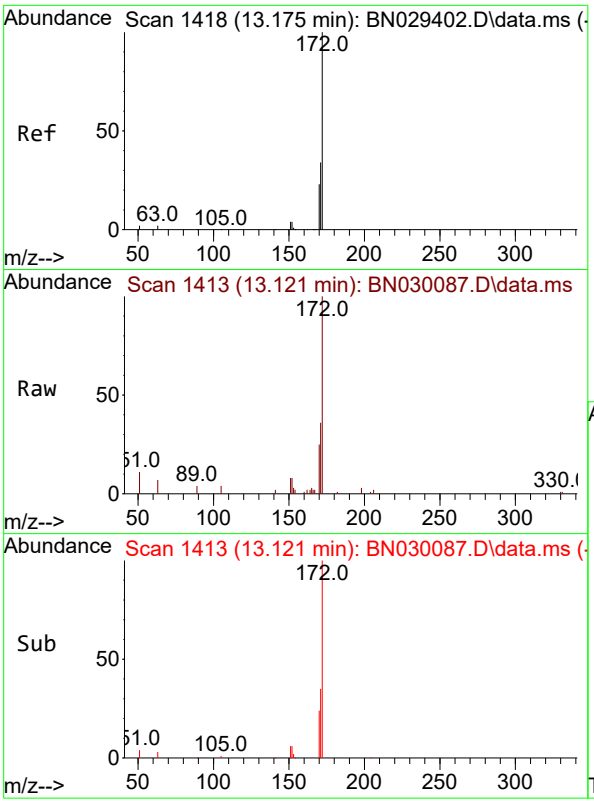


#14
2,4,6-Tribromophenol
Concen: 0.429 ng
RT: 16.002 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:330 Resp: 670

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.0	114.0
141	49.9	43.4	65.2



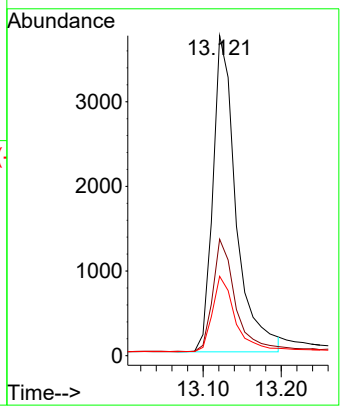


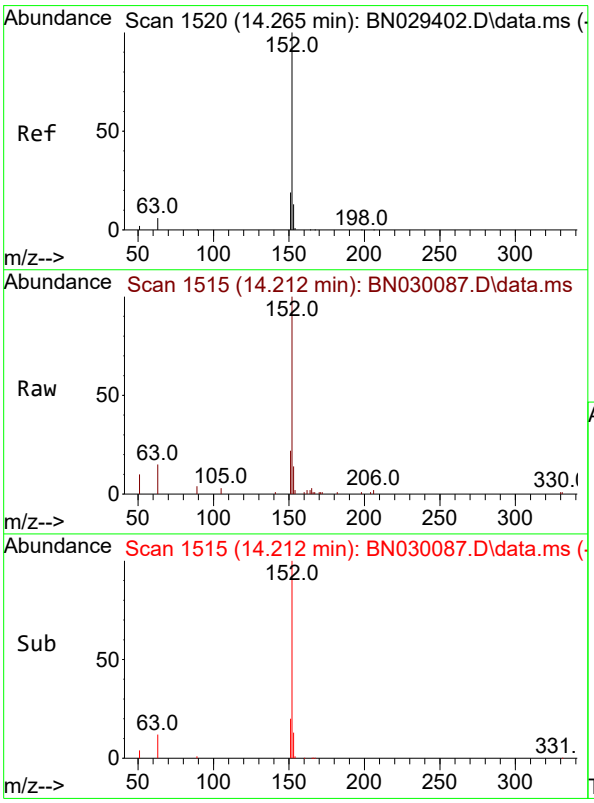
#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 13.121 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7689

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.0	42.0
170	24.8	18.7	28.1

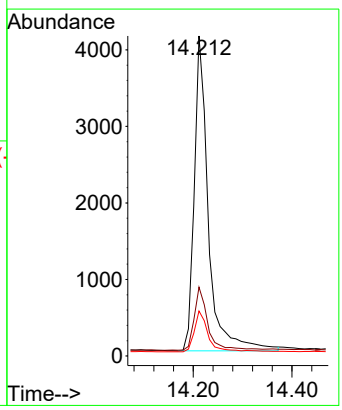


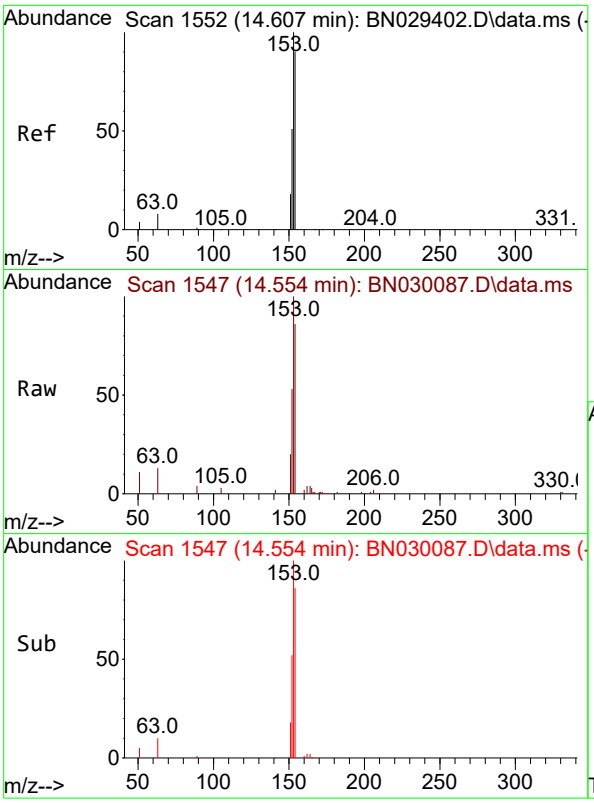


#16
Acenaphthylene
Concen: 0.352 ng
RT: 14.212 min Scan# 1515
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:152 Resp: 8151

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.9	23.9
153	13.1	10.5	15.7



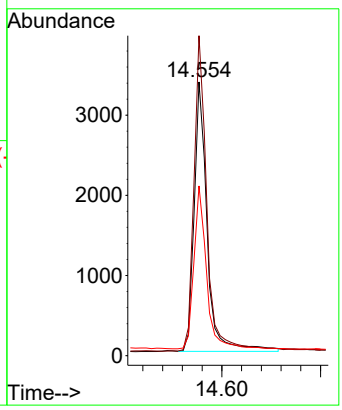


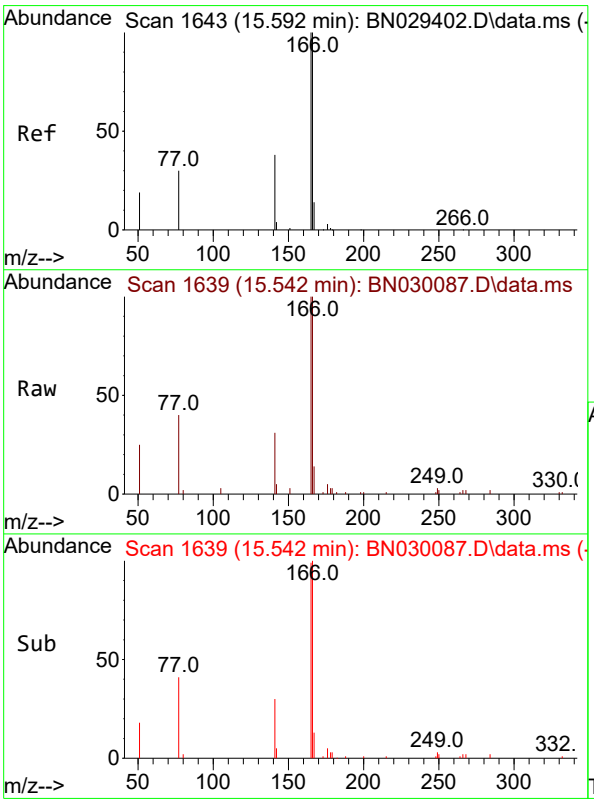
#17
Acenaphthene
Concen: 0.396 ng
RT: 14.554 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6145

Ion	Ratio	Lower	Upper
154	100		
153	116.2	93.6	140.4
152	58.4	48.6	73.0

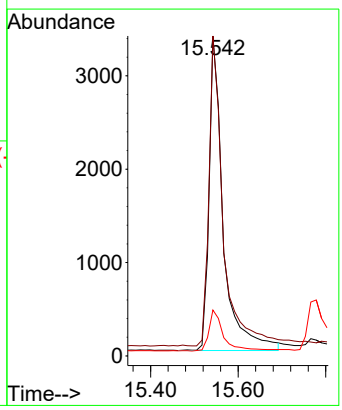


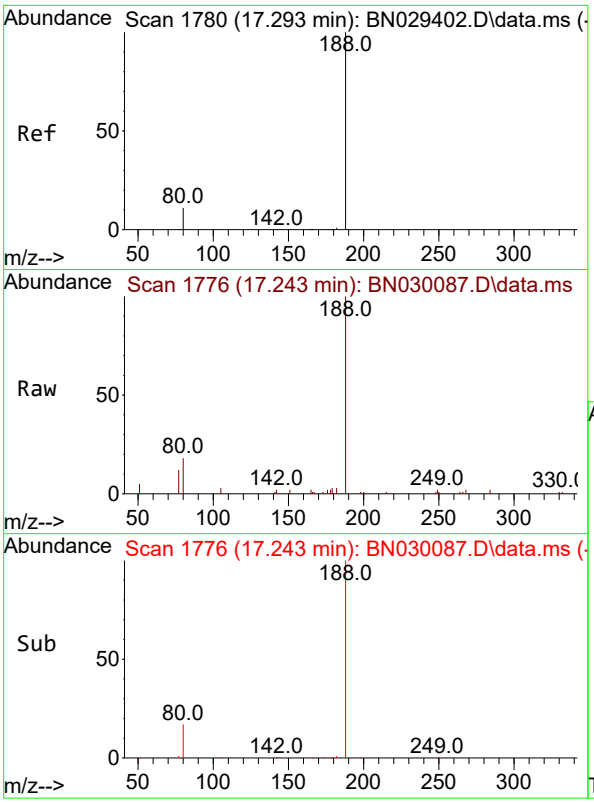


#18
Fluorene
Concen: 0.377 ng
RT: 15.542 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:166 Resp: 7351

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.9	119.9
167	13.9	11.3	16.9



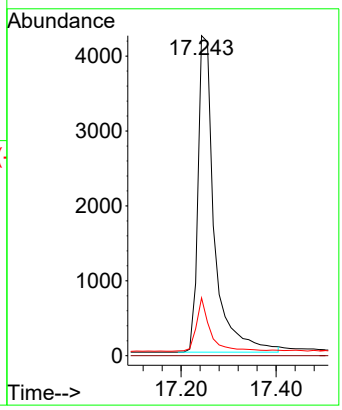


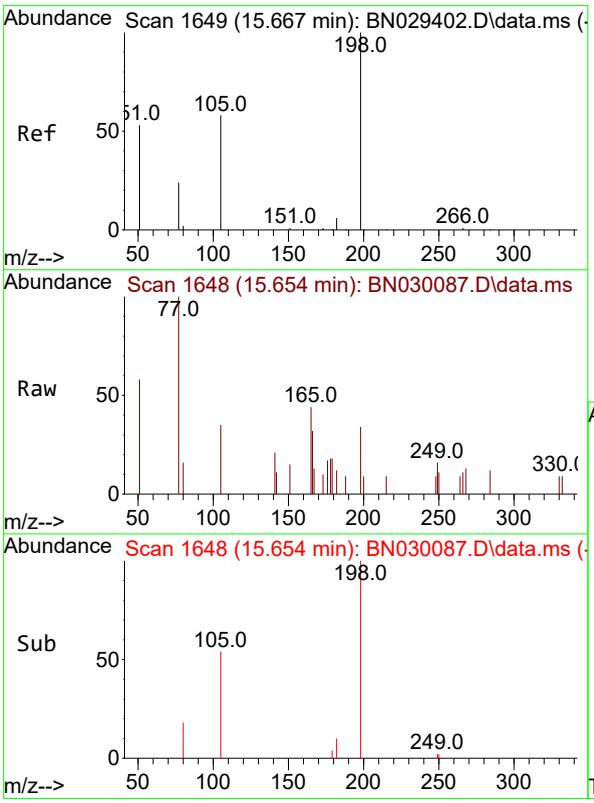
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.243 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 10172

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	18.0	10.0	15.0#

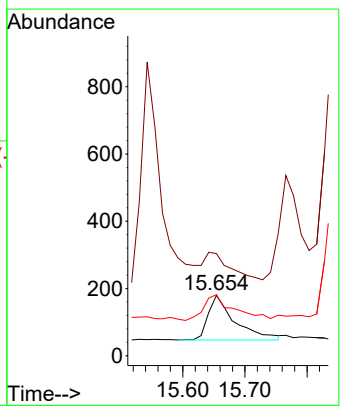


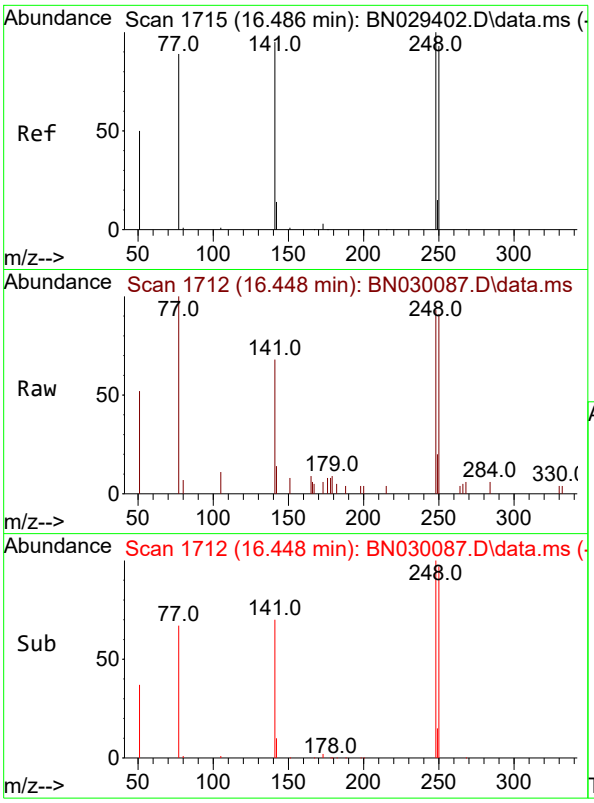


#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.654 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:198 Resp: 398

Ion	Ratio	Lower	Upper
198	100		
51	168.9	111.0	166.6#
105	101.1	67.0	100.6#



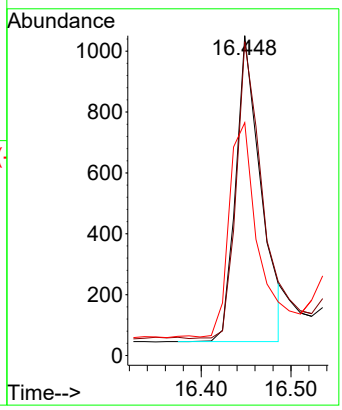


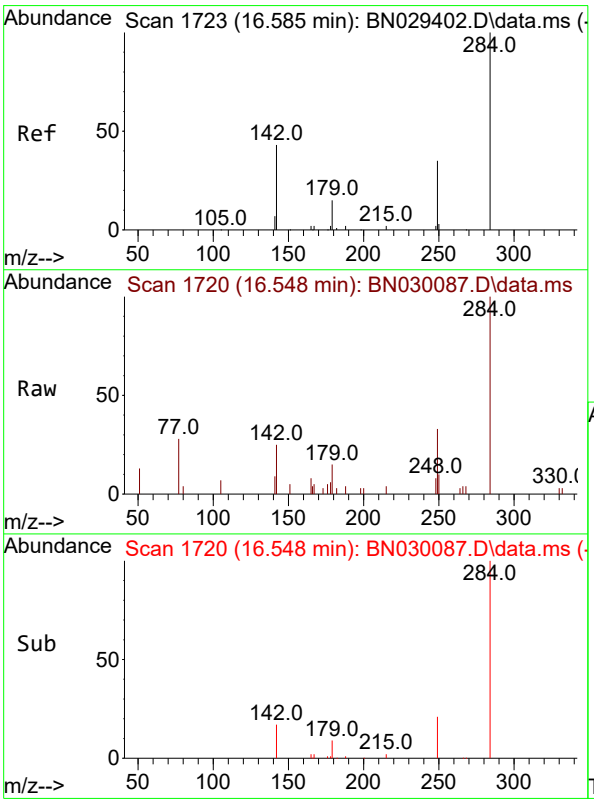
#21
4-Bromophenyl-phenylether
Concen: 0.324 ng
RT: 16.448 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1959

Ion	Ratio	Lower	Upper
248	100		
250	98.1	75.0	112.4
141	72.8	77.0	115.6#

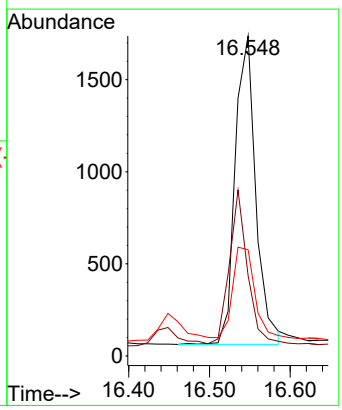


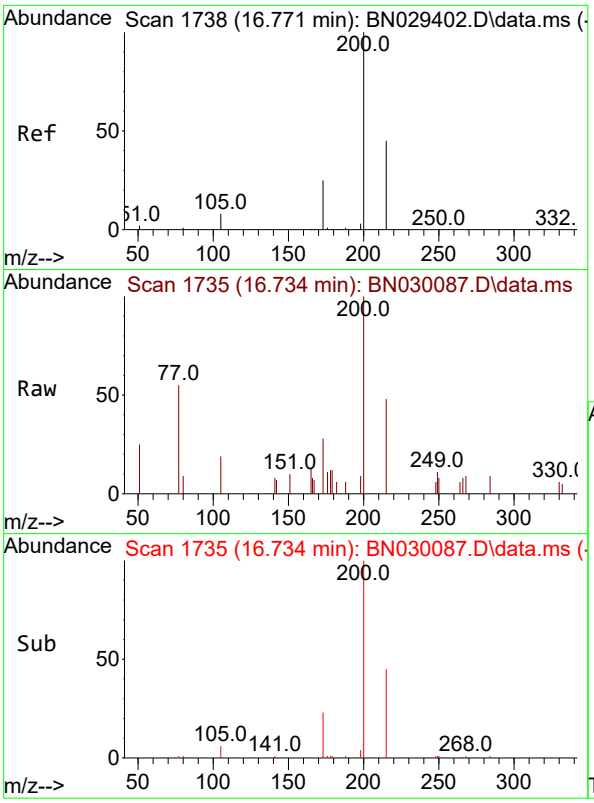


#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.548 min Scan# 1720
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:284 Resp: 2967

Ion	Ratio	Lower	Upper
284	100		
142	43.5	39.4	59.2
249	30.7	26.9	40.3



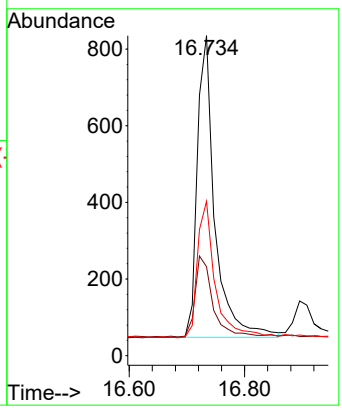


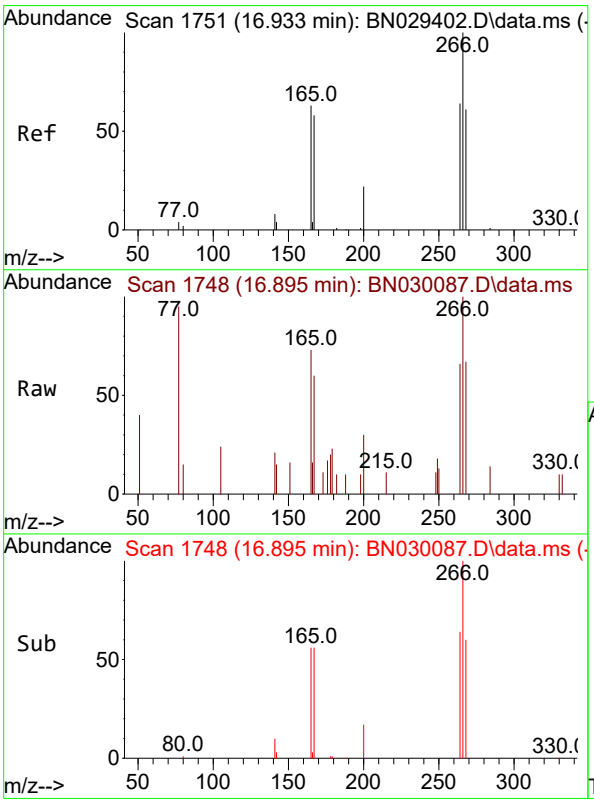
#23
Atrazine
Concen: 0.385 ng
RT: 16.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1659

Ion	Ratio	Lower	Upper
200	100		
173	27.8	23.4	35.0
215	48.3	38.4	57.6

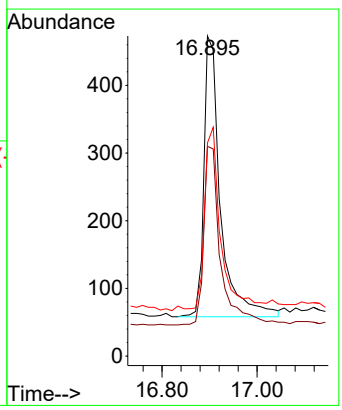


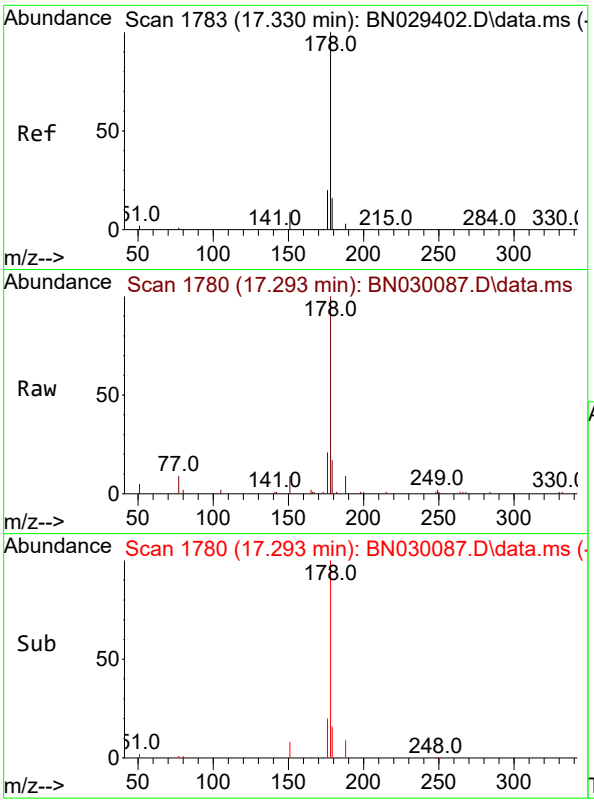


#24
Pentachlorophenol
Concen: 0.430 ng
RT: 16.895 min Scan# 1748
Delta R.T. -0.012 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:266 Resp: 1012

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.8	76.2
268	61.9	51.5	77.3



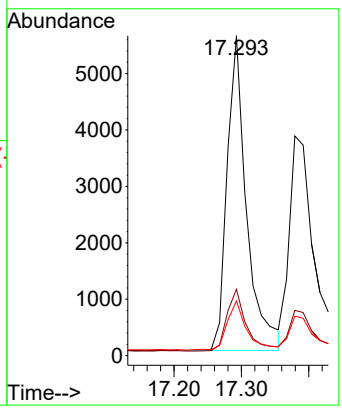


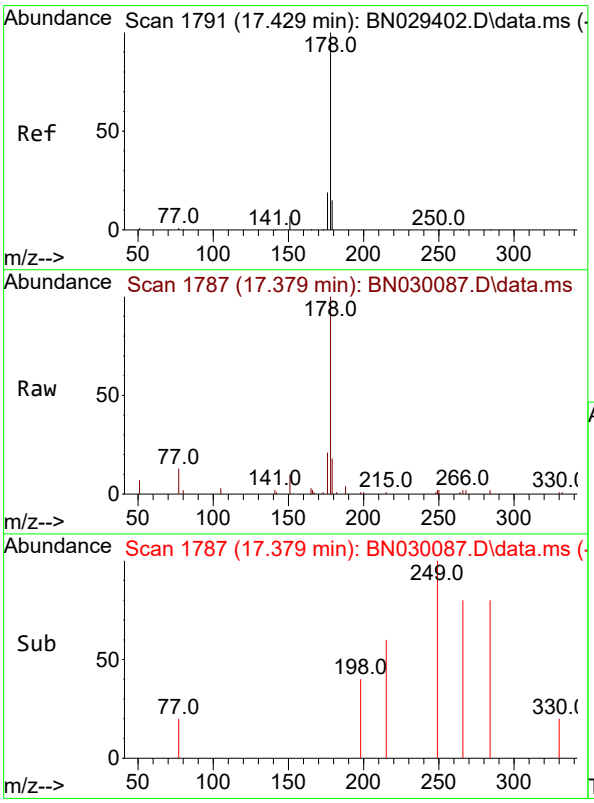
#25
Phenanthrene
Concen: 0.373 ng
RT: 17.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11212

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.8	12.6	19.0

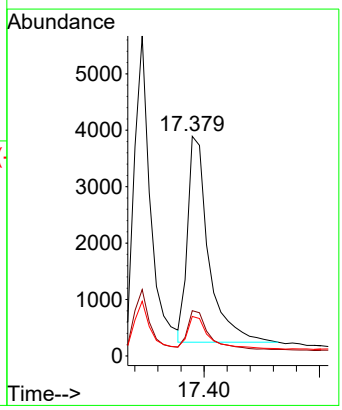


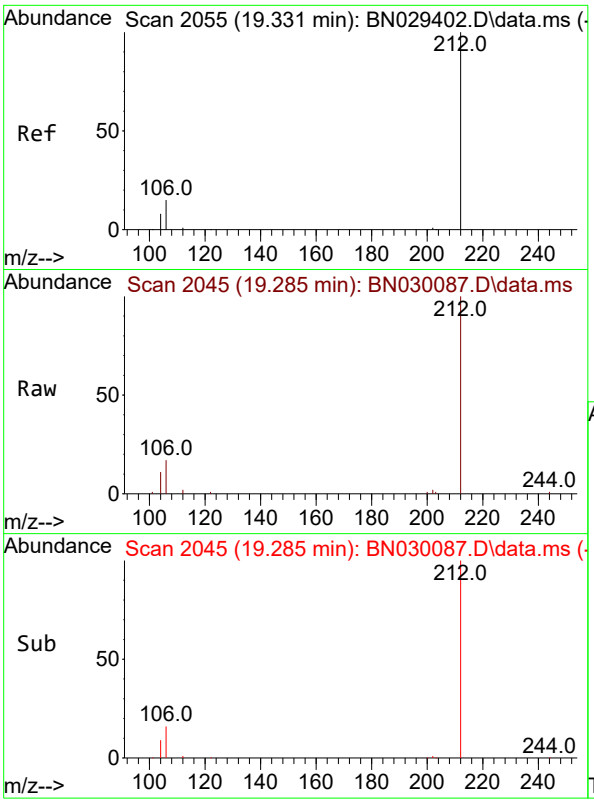


#26
Anthracene
Concen: 0.361 ng
RT: 17.379 min Scan# 1787
Delta R.T. -0.012 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:178 Resp: 9264

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.4	12.3	18.5



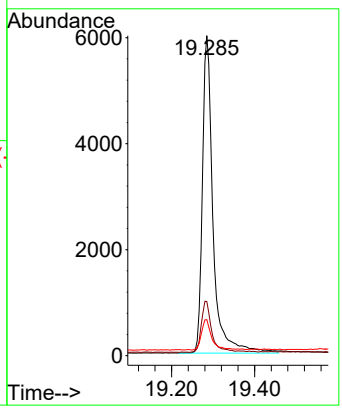


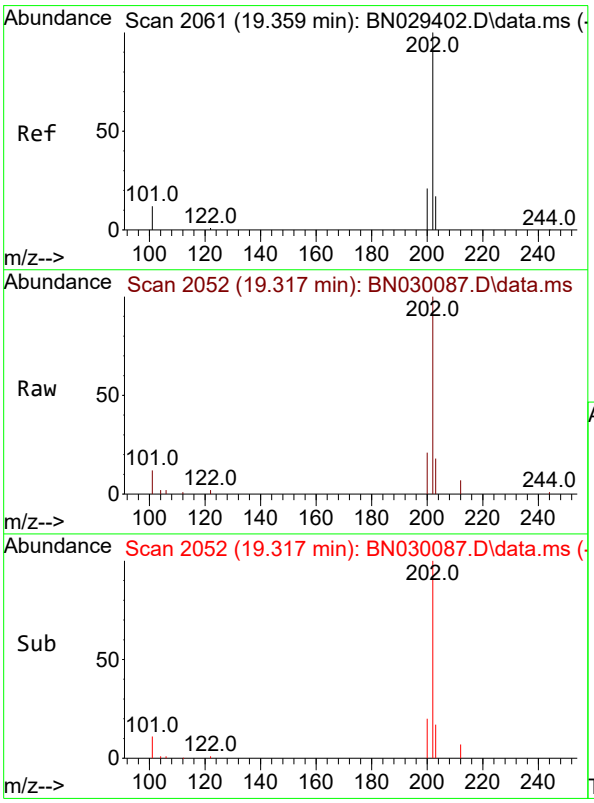
#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.285 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10703

Ion	Ratio	Lower	Upper
212	100		
106	15.5	13.2	19.8
104	9.2	7.7	11.5

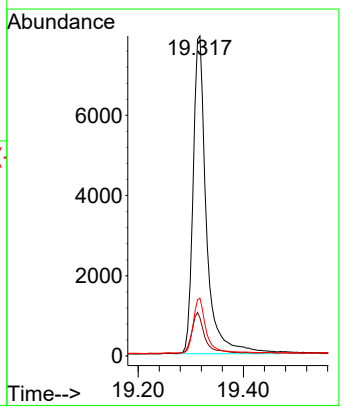


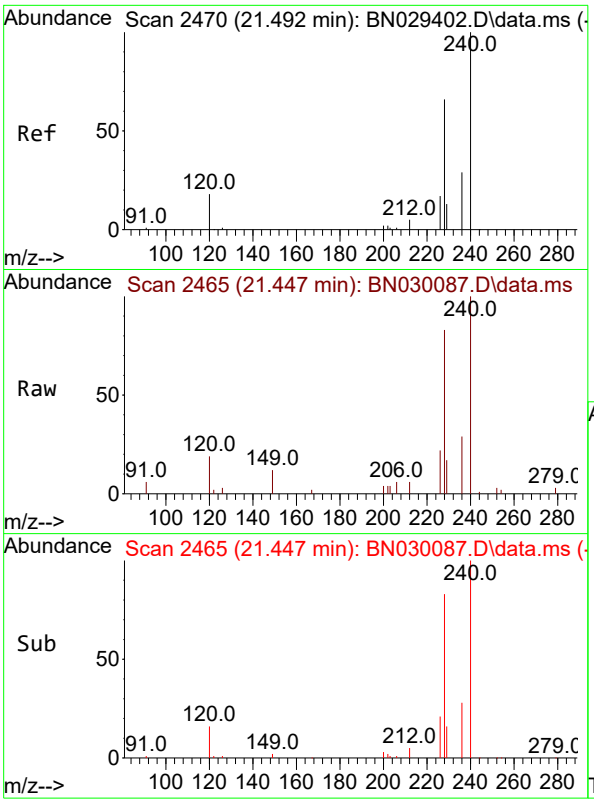


#28
Fluoranthene
Concen: 0.412 ng
RT: 19.317 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:202 Resp: 13945

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.5	15.7
203	17.0	13.5	20.3



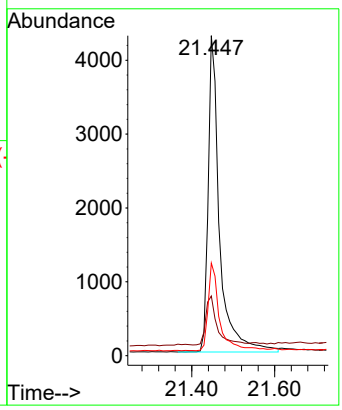


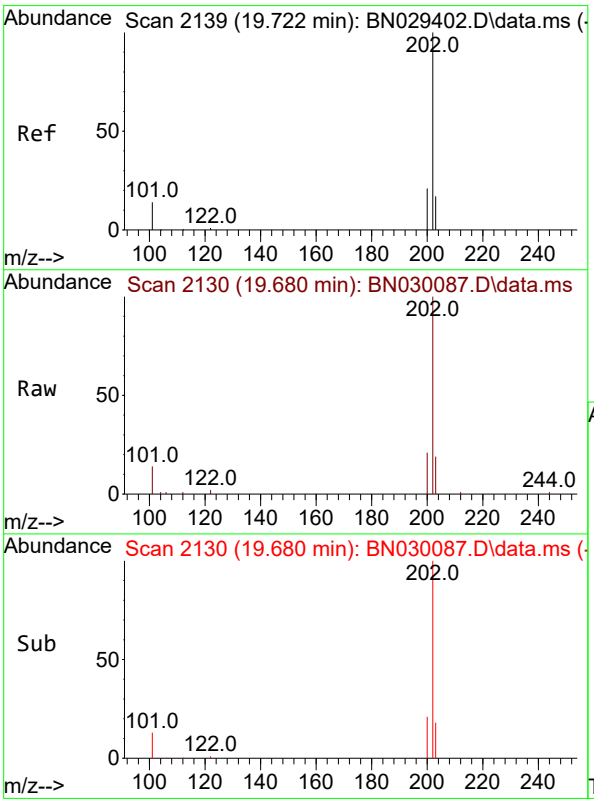
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.447 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8187

Ion	Ratio	Lower	Upper
240	100		
120	18.7	16.7	25.1
236	29.0	23.9	35.9

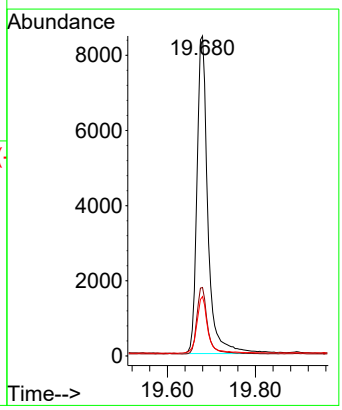


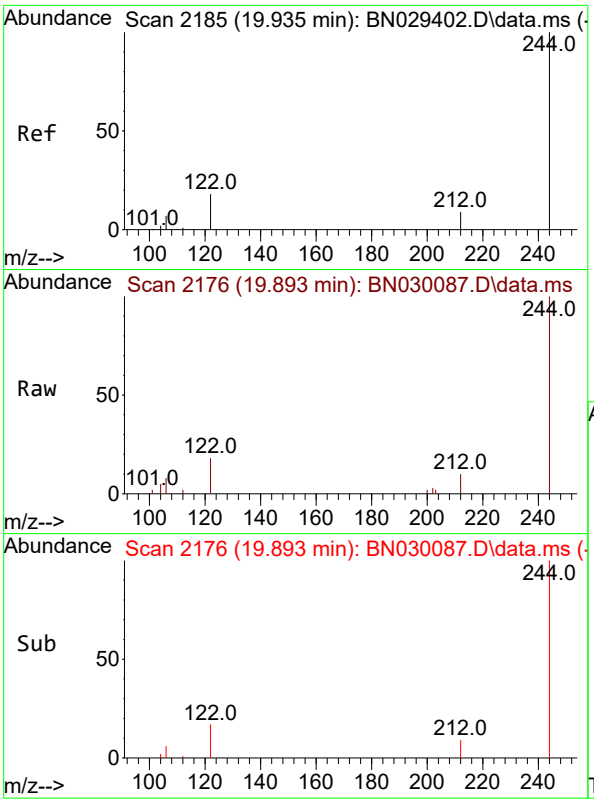


#30
Pyrene
Concen: 0.386 ng
RT: 19.680 min Scan# 2130
Delta R.T. -0.005 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:202 Resp: 14557

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	17.8	14.2	21.4



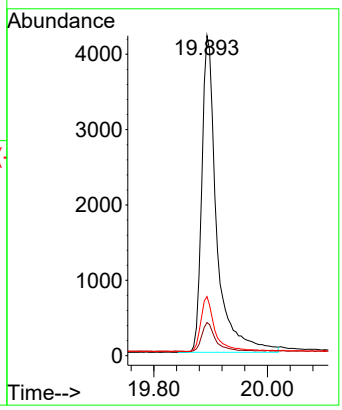


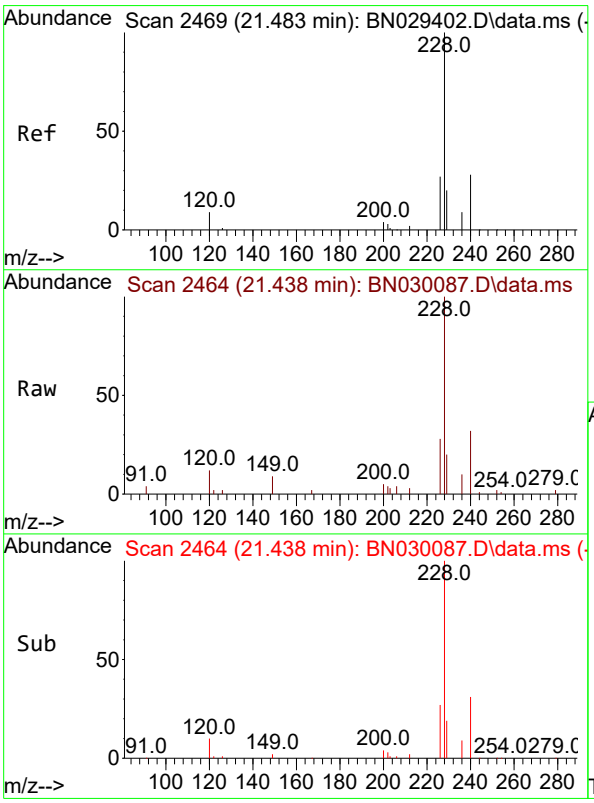
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.893 min Scan# 21
Delta R.T. -0.005 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7660

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.2	12.4
122	18.5	15.6	23.4

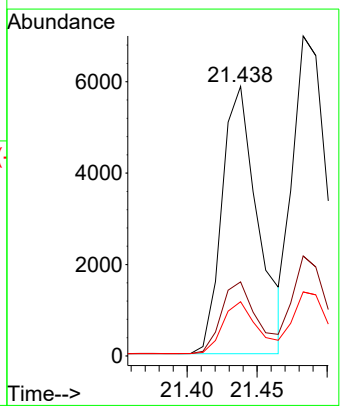


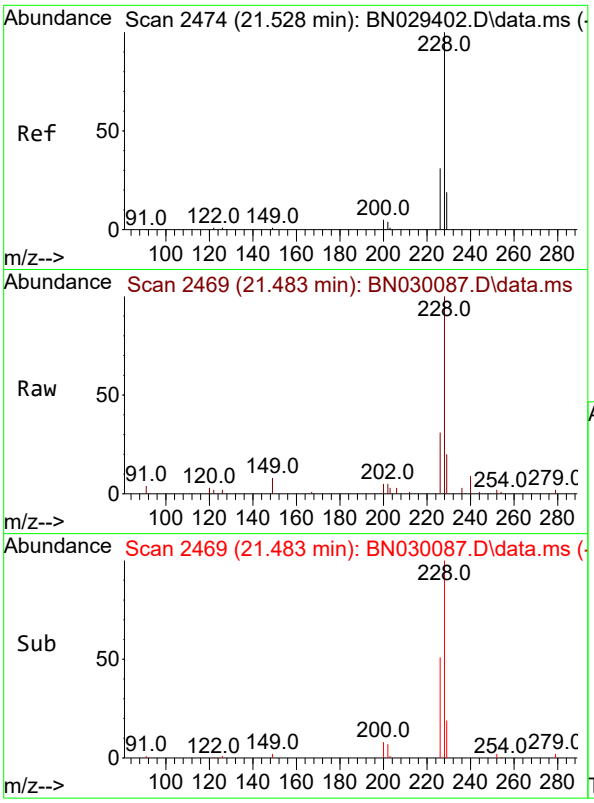


#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.438 min Scan# 2464
Delta R.T. 0.000 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:228 Resp: 10471

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.4
229	20.1	16.5	24.7



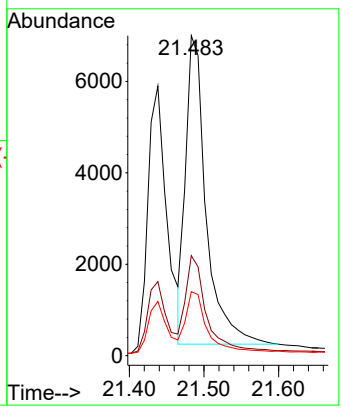


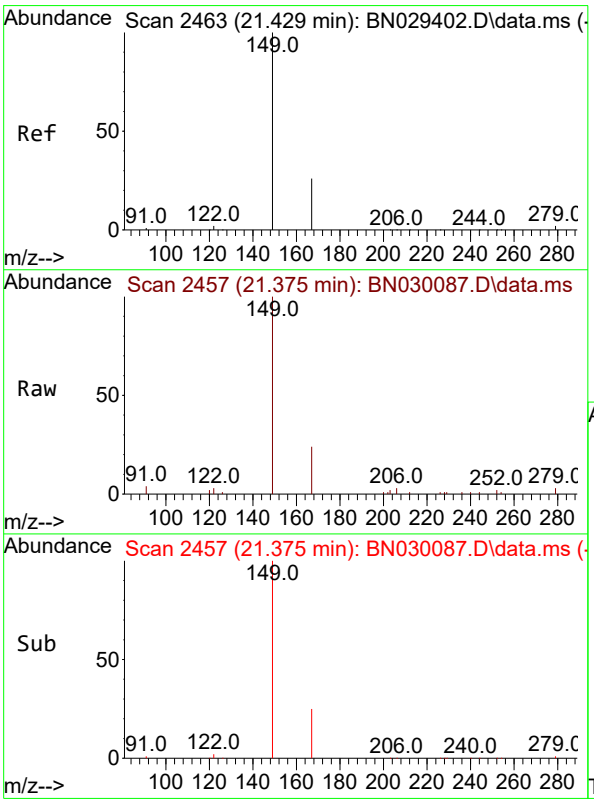
#33
Chrysene
Concen: 0.405 ng
RT: 21.483 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 12873

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	20.0	15.9	23.9

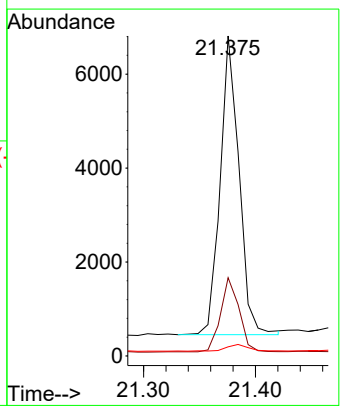


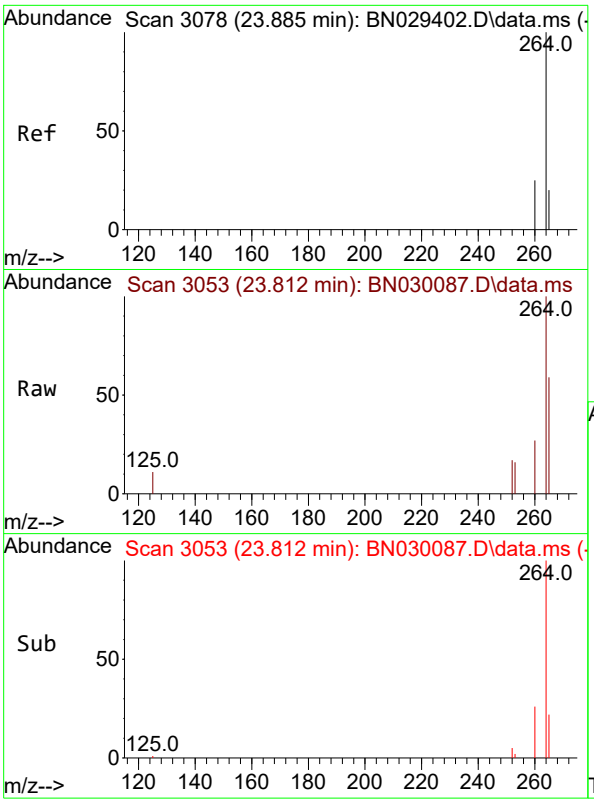


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.391 ng
RT: 21.375 min Scan# 2457
Delta R.T. -0.009 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:149 Resp: 7455

Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.1	30.1
279	2.7	2.5	3.7



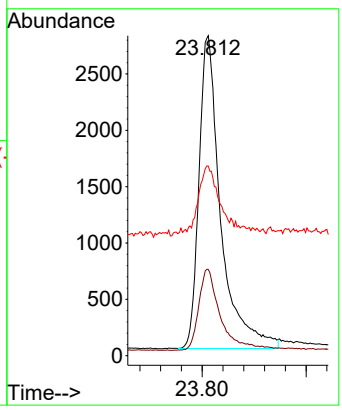


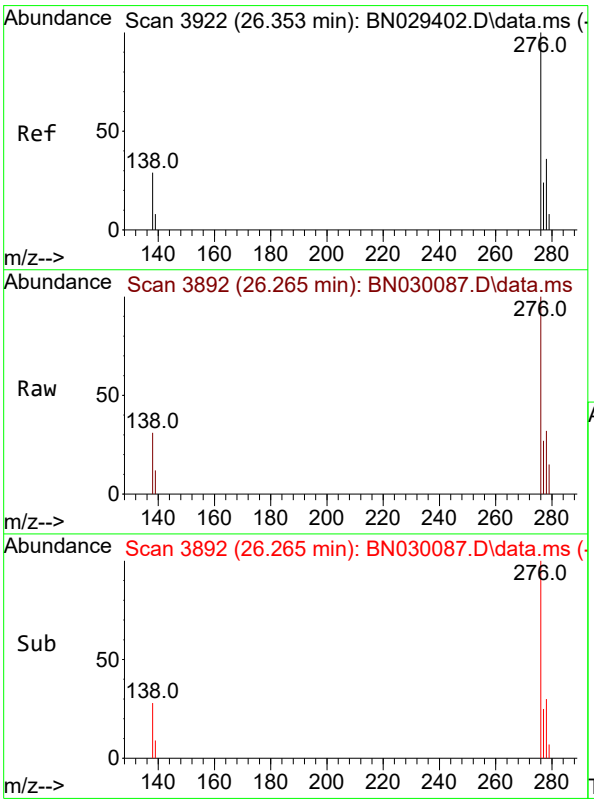
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.812 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8068

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.2	31.8
265	59.3	41.5	62.3

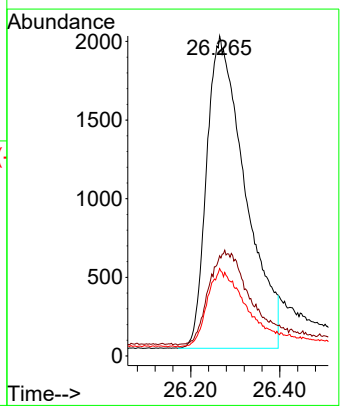


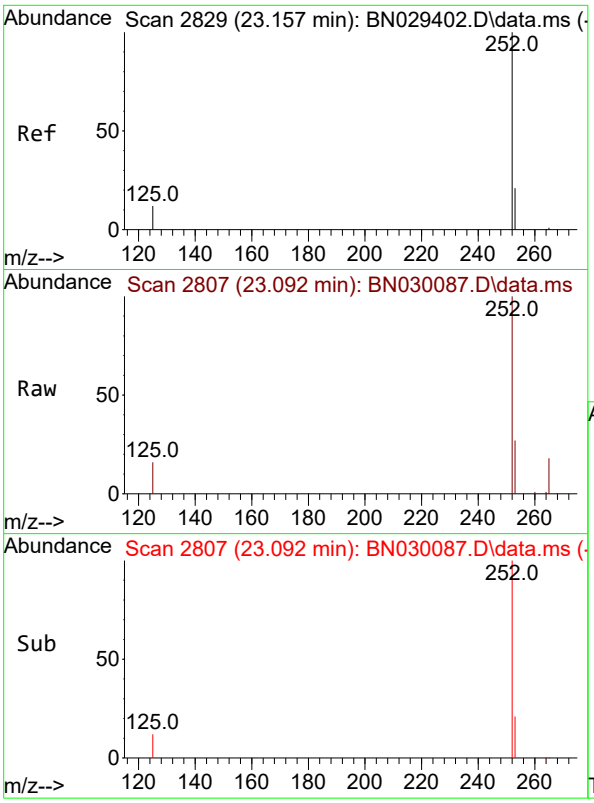


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 26.265 min Scan# 3892
Delta R.T. -0.003 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:276 Resp: 11908

Ion	Ratio	Lower	Upper
276	100		
138	30.9	20.5	30.7#
277	10.4	17.0	25.4#



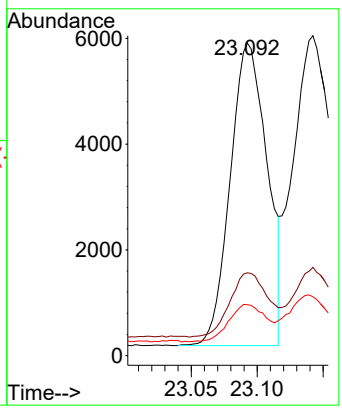


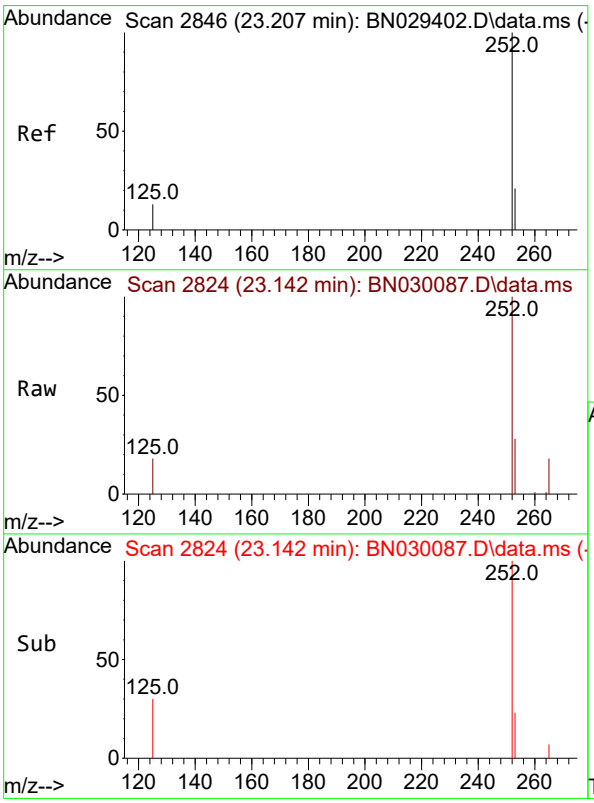
#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 23.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 11125

Ion	Ratio	Lower	Upper
252	100		
253	26.5	21.7	32.5
125	16.3	13.3	19.9

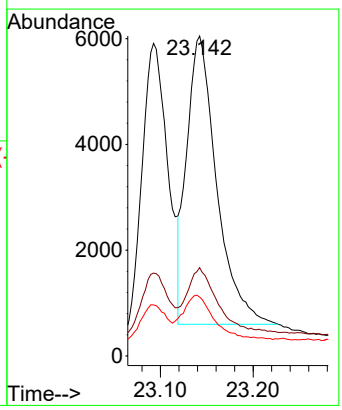


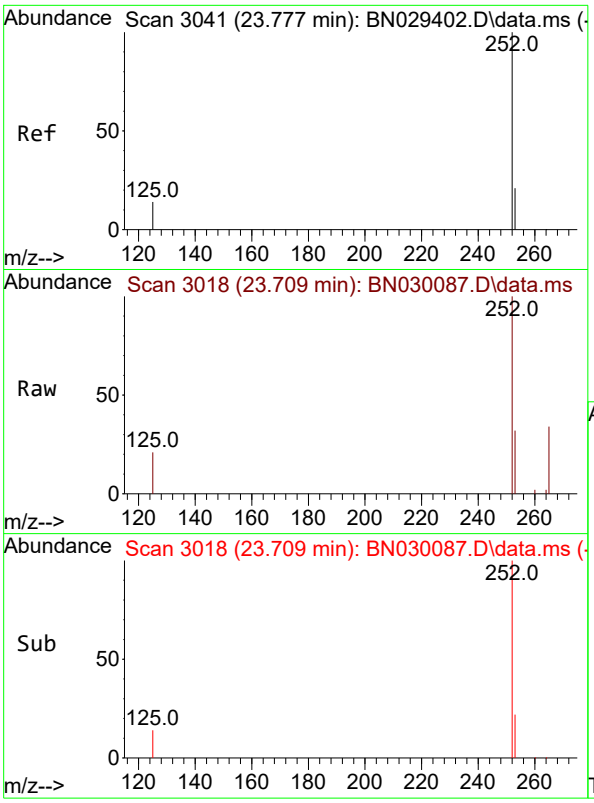


#38
Benzo(k)fluoranthene
Concen: 0.405 ng
RT: 23.142 min Scan# 2824
Delta R.T. -0.006 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:252 Resp: 12225

Ion	Ratio	Lower	Upper
252	100		
253	27.6	21.8	32.8
125	18.4	13.9	20.9



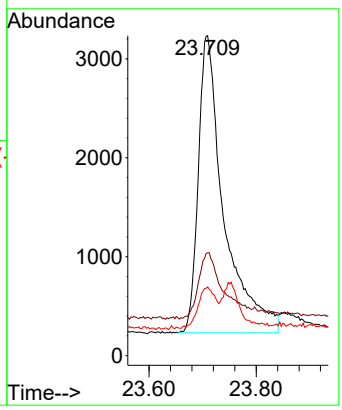


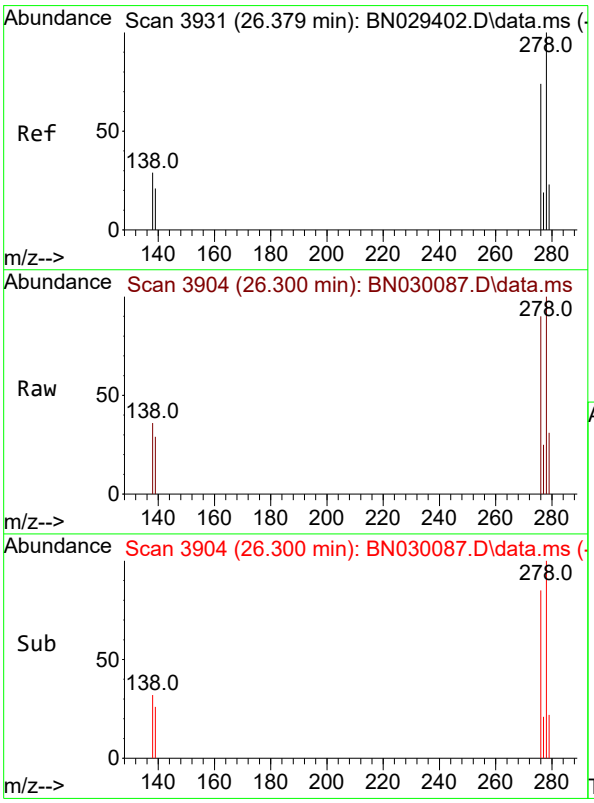
#39
Benzo(a)pyrene
Concen: 0.396 ng
RT: 23.709 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9957

Ion	Ratio	Lower	Upper
252	100		
253	32.1	24.9	37.3
125	21.5	16.6	25.0

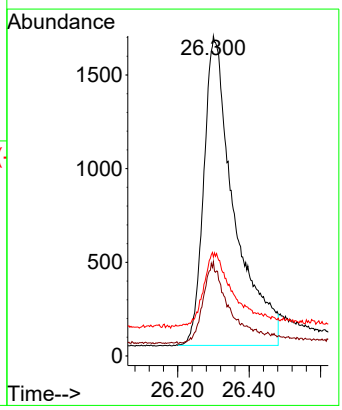


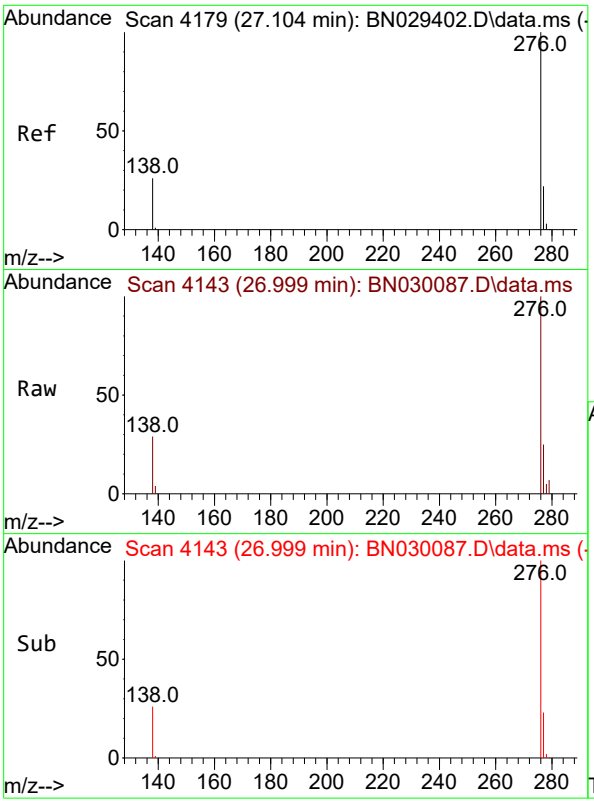


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 26.300 min Scan# 3904
Delta R.T. -0.003 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Tgt Ion:278 Resp: 9752

Ion	Ratio	Lower	Upper
278	100		
139	29.4	20.4	30.6
279	30.9	25.0	37.6





#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.999 min Scan# 4
Delta R.T. -0.009 min
Lab File: BN030087.D
Acq: 27 Feb 2024 09:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11774

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.4	29.2
138	28.6	23.5	35.3