Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082922\
Data File : BN021422.D
Acq On : 29 Aug 2022 14:20
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 29 15:18:09 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 29 14:52:01 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.076	152	4691	0.400	ng		0.00
7) Naphthalene-d8	10.909	136	14028	0.400	ng		0.00
13) Acenaphthene-d10	14.728	164	8049	0.400	ng		0.00
19) Phenanthrene-d10	17.480	188	15356	0.400	ng		0.00
29) Chrysene-d12	21.673	240	13605	0.400	ng		0.00
35) Perylene-d12	24.199	264	8793	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.599	112	28394	2.237	ng		0.00
5) Phenol-d6	7.224	99	37872	2.380	ng		0.00
8) Nitrobenzene-d5	9.254	82	30869	2.908	ng		0.00
11) 2-Methylnaphthalene-d10	12.493	152	103224	4.357	ng		0.00
14) 2,4,6-Tribromophenol	16.218	330	9280	2.517	ng		0.00
15) 2-Fluorobiphenyl	13.360	172	105040	2.918	ng		0.00
27) Fluoranthene-d10	19.510	212	132077	2.879	ng		0.00
31) Terphenyl-d14	20.097	244	86474	3.008	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.410	88	17644	2.711	ng	#	89
3) n-Nitrosodimethylamine	3.743	42	17193	2.762	ng	#	94
6) bis(2-Chloroethyl)ether	7.491	93	44071	2.768	ng		98
9) Naphthalene	10.962	128	127816	2.771	ng		98
10) Hexachlorobutadiene	11.240	225	21630	2.843	ng	#	100
12) 2-Methylnaphthalene	12.191	142	21824	2.780	ng	#	85
16) Acenaphthylene	14.450	152	127349	3.156	ng		100
17) Acenaphthene	14.792	154	83744	2.990	ng		98
18) Fluorene	15.776	166	102764	2.929	ng		100
20) 4,6-Dinitro-2-methylph...	15.690	198	5	0.248	ng		81
21) 4-Bromophenyl-phenylether	16.670	248	31586	3.004	ng		97
22) Hexachlorobenzene	16.782	284	36484	2.990	ng		99
23) Atrazine	16.926	200	20456	3.078	ng		96
24) Pentachlorophenol	17.121	266	10822	2.567	ng		99
25) Phenanthrene	17.521	178	169385	3.016	ng		100
26) Anthracene	17.613	178	146871	3.183	ng		100
28) Fluoranthene	19.539	202	188015	3.041	ng		100
30) Pyrene	19.902	202	211825	3.092	ng	#	92
32) Benzo(a)anthracene	21.655	228	156391	3.036	ng		99
33) Chrysene	21.709	228	172221	3.068	ng		99
34) Bis(2-ethylhexyl)phtha...	21.574	149	58722	2.365	ng		99
36) Indeno(1,2,3-cd)pyrene	26.860	276	134795	3.014	ng		99
37) Benzo(b)fluoranthene	23.422	252	140612	3.626	ng	#	93
38) Benzo(k)fluoranthene	23.471	252	144737	3.612	ng		95
39) Benzo(a)pyrene	24.085	252	103955	3.303	ng	#	90
40) Dibenzo(a,h)anthracene	26.881	278	109209	2.968	ng		94
41) Benzo(g,h,i)perylene	27.679	276	111636	2.883	ng		99

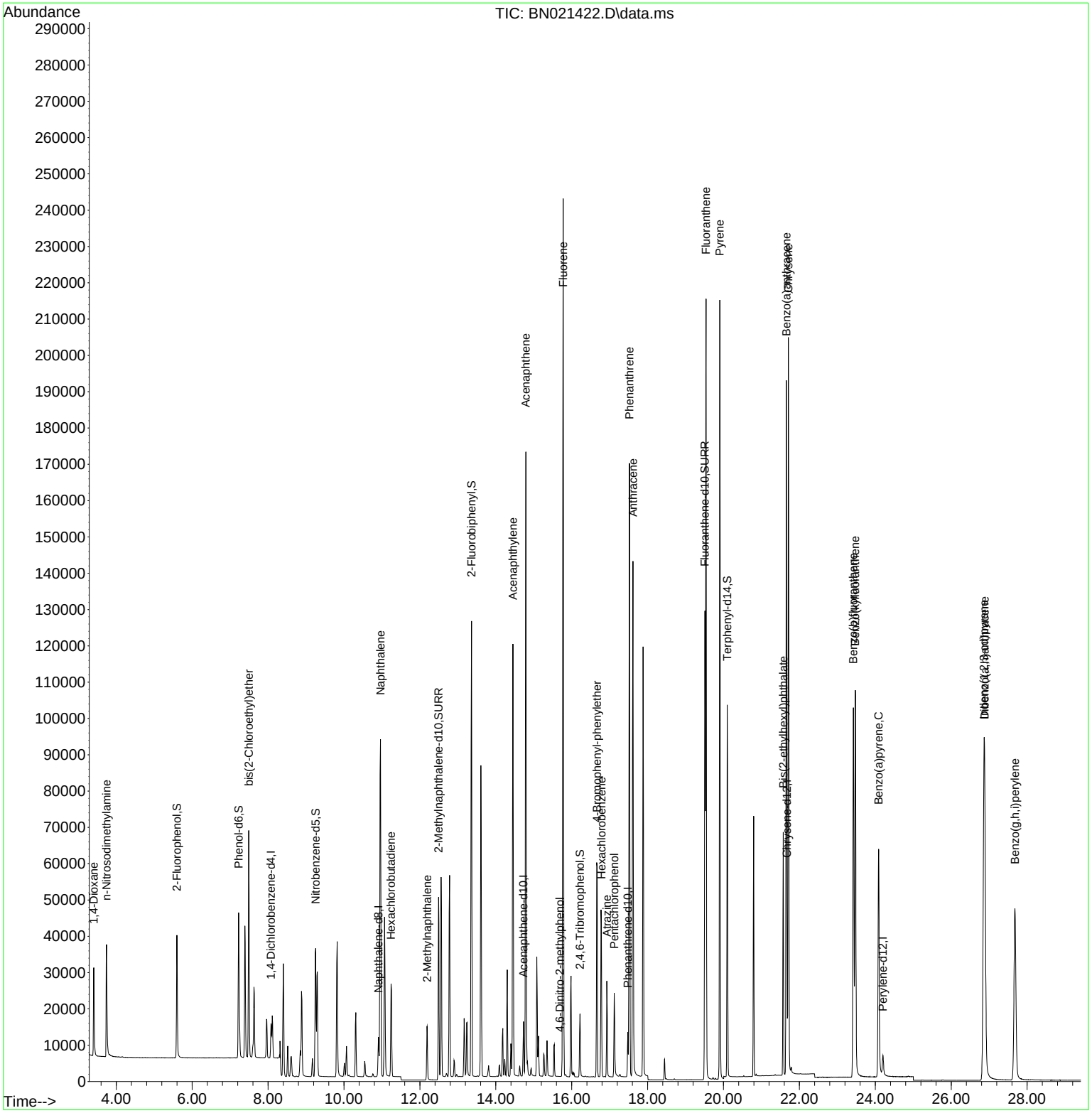
(#) = qualifier out of range (m) = manual integration (+) = signals summed

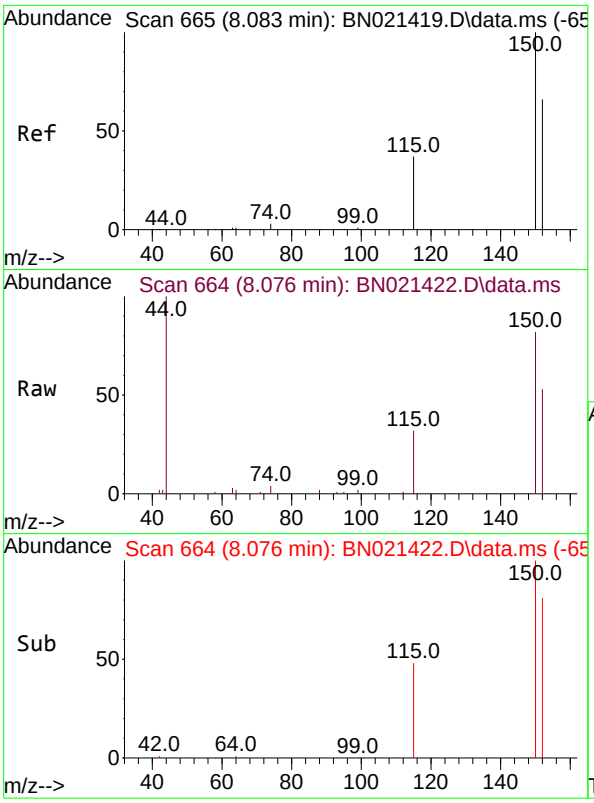
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082922\
Data File : BN021422.D
Acq On : 29 Aug 2022 14:20
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 29 15:18:09 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 29 14:52:01 2022
Response via : Initial Calibration



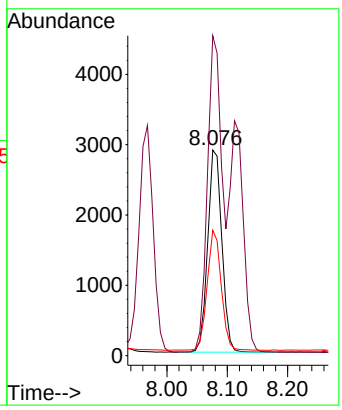


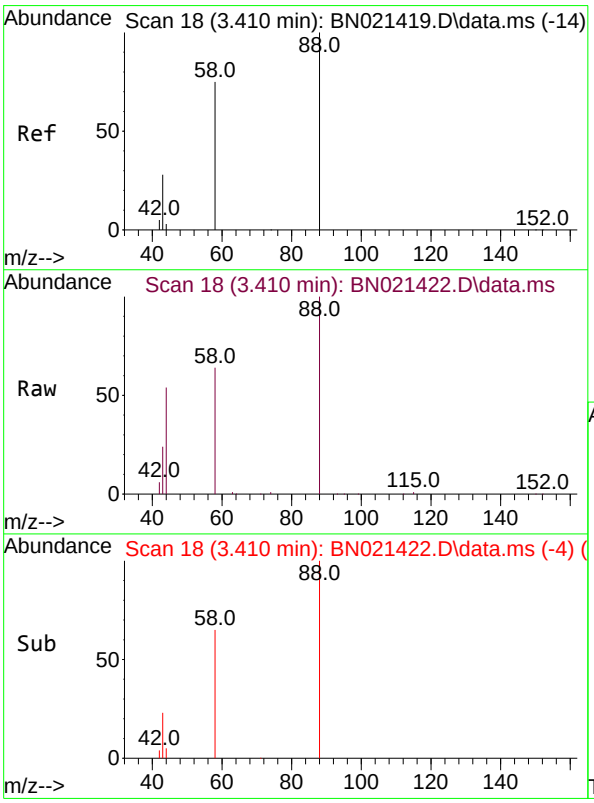
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.076 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 4691

Ion	Ratio	Lower	Upper
152	100		
150	155.7	121.4	182.0
115	61.0	48.6	72.8

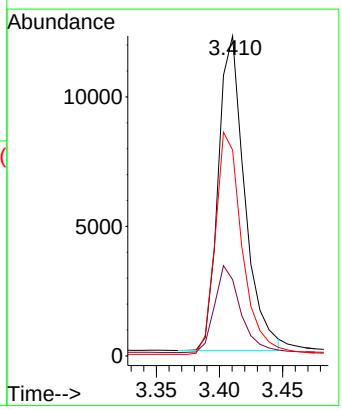


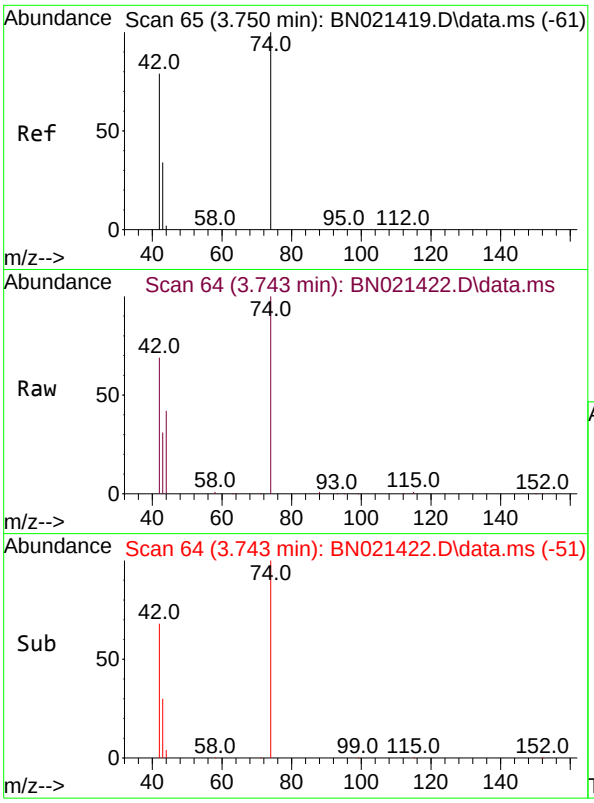


#2
1,4-Dioxane
Concen: 2.711 ng
RT: 3.410 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion: 88 Resp: 17644

Ion	Ratio	Lower	Upper
88	100		
43	27.1	35.8	53.8#
58	71.5	57.1	85.7



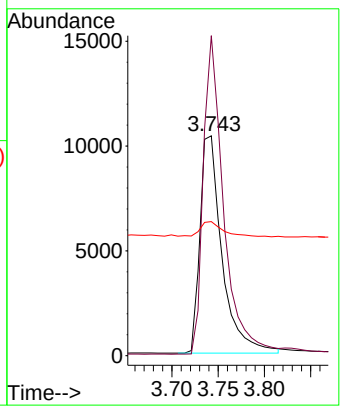


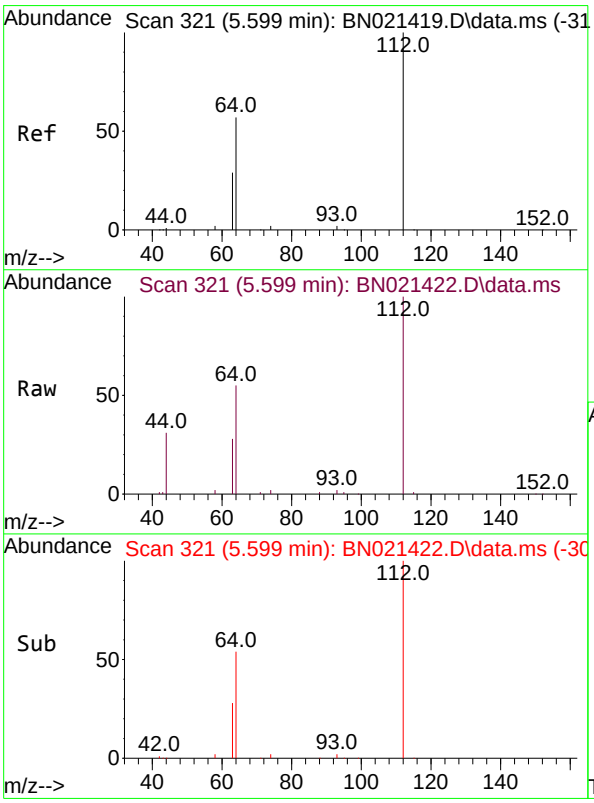
#3
n-Nitrosodimethylamine
Concen: 2.762 ng
RT: 3.743 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 17193

Ion	Ratio	Lower	Upper
42	100		
74	135.0	113.0	169.6
44	7.3	10.5	15.7#

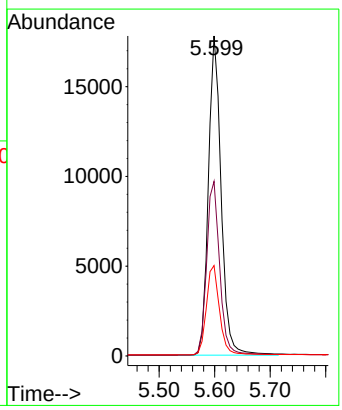


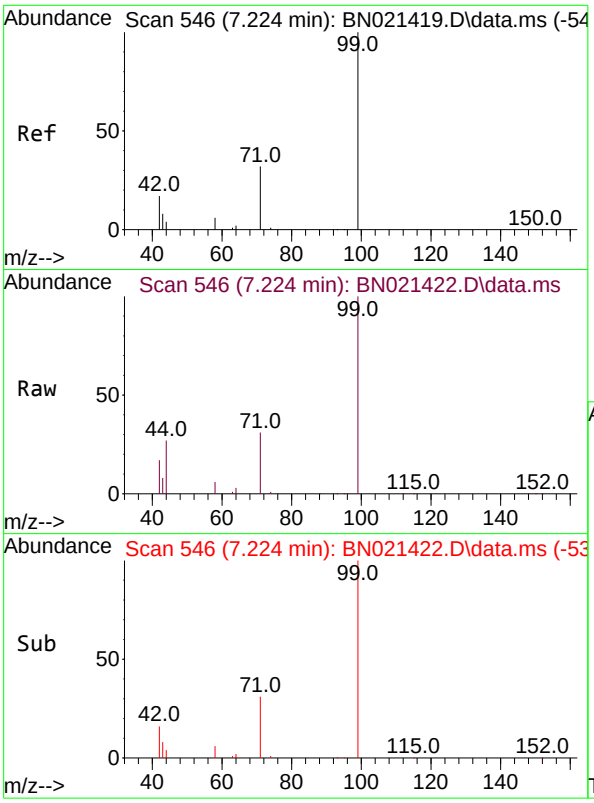


#4
2-Fluorophenol
Concen: 2.237 ng
RT: 5.599 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:112 Resp: 28394

Ion	Ratio	Lower	Upper
112	100		
64	55.8	43.5	65.3
63	28.8	22.6	34.0



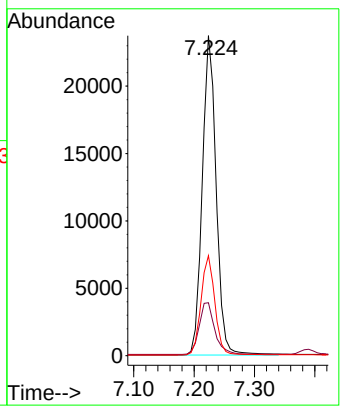


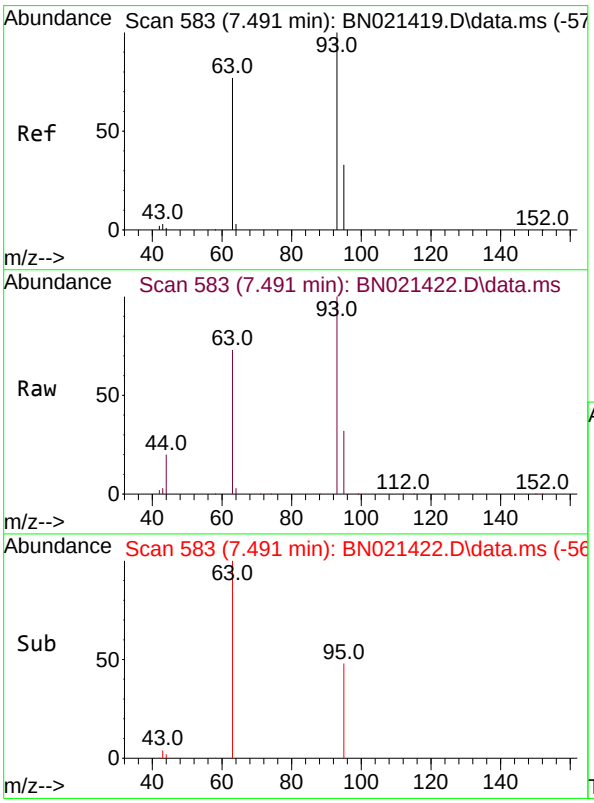
#5
Phenol-d6
Concen: 2.380 ng
RT: 7.224 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 37872

Ion	Ratio	Lower	Upper
99	100		
42	18.3	15.5	23.3
71	31.1	24.2	36.2

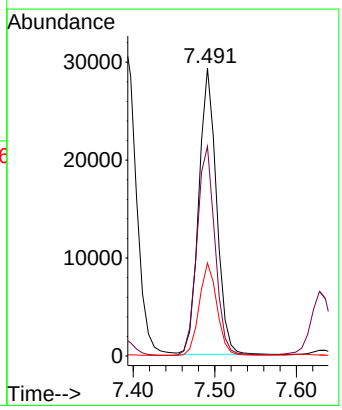


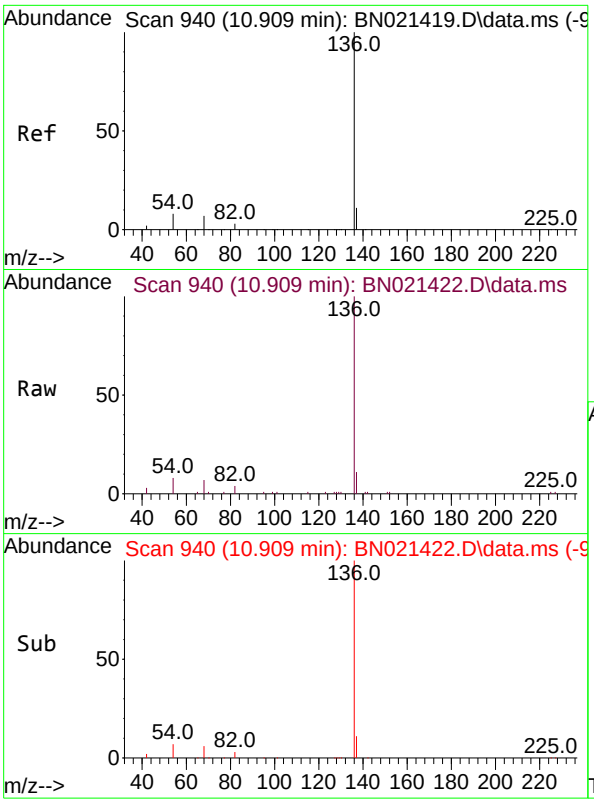


#6
bis(2-Chloroethyl)ether
Concen: 2.768 ng
RT: 7.491 min Scan# 583
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion: 93 Resp: 44071

Ion	Ratio	Lower	Upper
93	100		
63	74.6	57.8	86.8
95	32.4	25.9	38.9



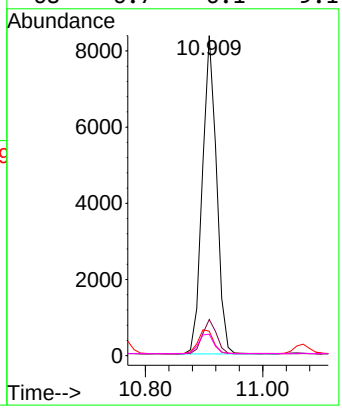


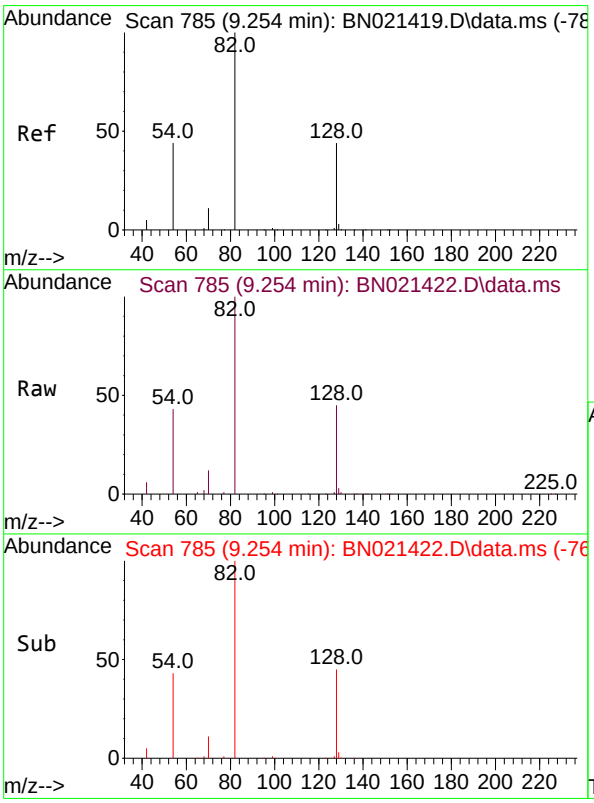
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.909 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 14028

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.3	13.9
54	7.7	6.9	10.3
68	6.7	6.1	9.1

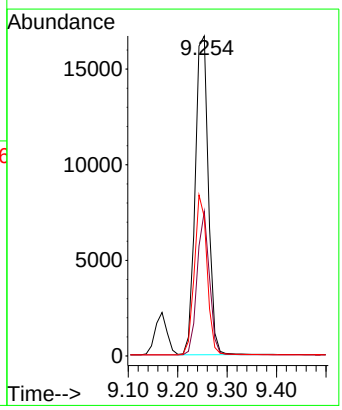


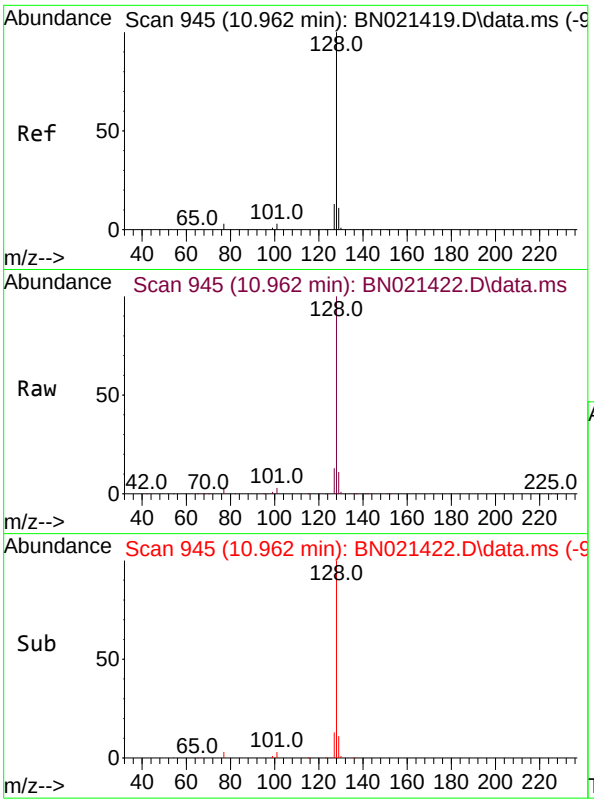


#8
Nitrobenzene-d5
Concen: 2.908 ng
RT: 9.254 min Scan# 785
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion: 82 Resp: 30869

Ion	Ratio	Lower	Upper
82	100		
128	45.1	30.9	46.3
54	43.4	42.7	64.1



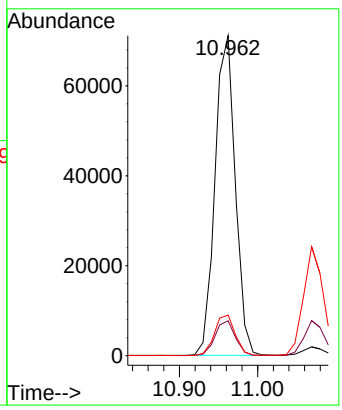


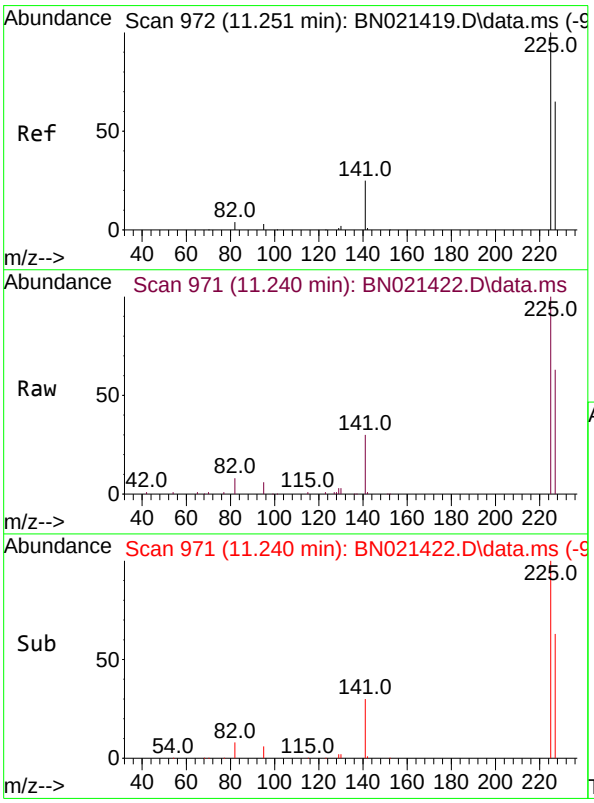
#9
Naphthalene
Concen: 2.771 ng
RT: 10.962 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 127816

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.3	13.9
127	12.7	11.0	16.4

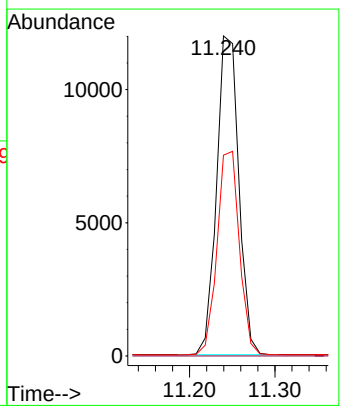


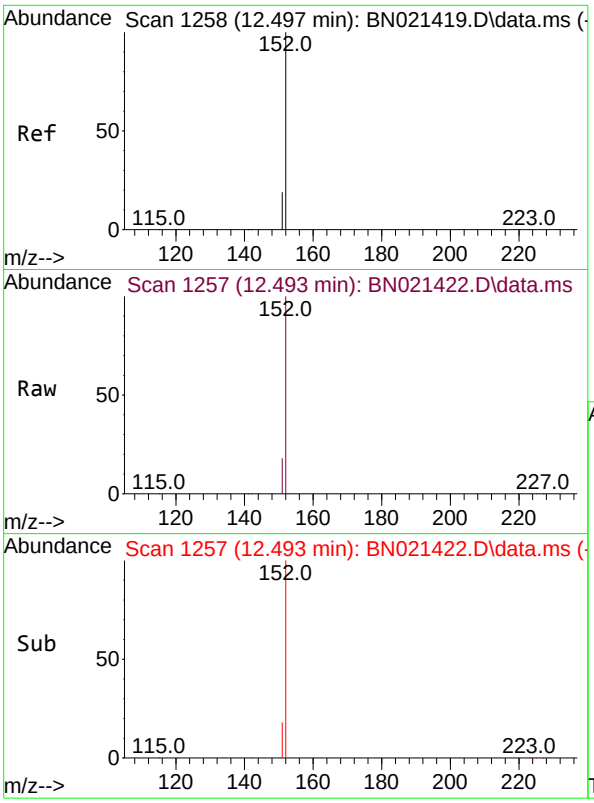


#10
Hexachlorobutadiene
Concen: 2.843 ng
RT: 11.240 min Scan# 971
Delta R.T. -0.011 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:225 Resp: 21630

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.2	76.8



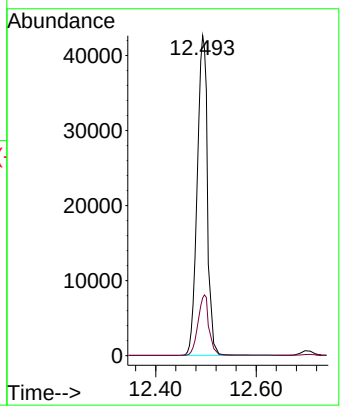


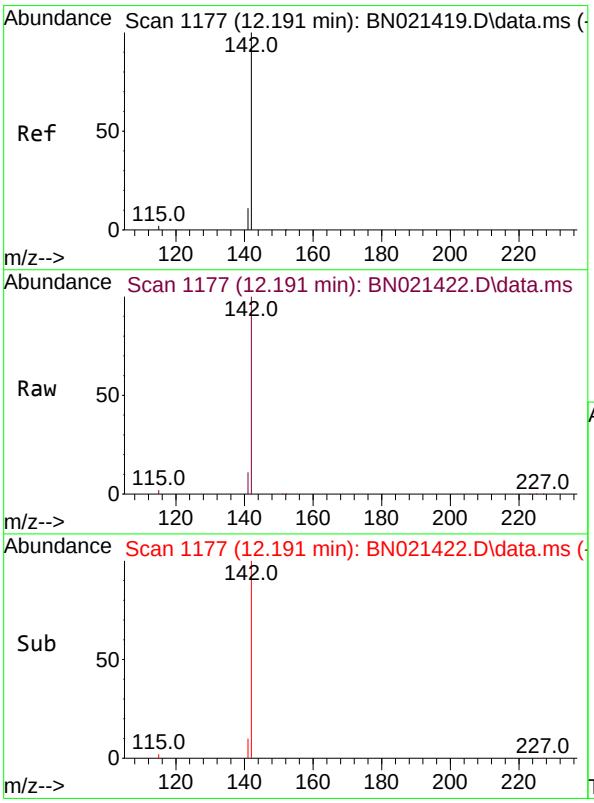
#11
2-Methylnaphthalene-d10
Concen: 4.357 ng
RT: 12.493 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 103224

Ion	Ratio	Lower	Upper
152	100		
151	18.7	14.5	21.7

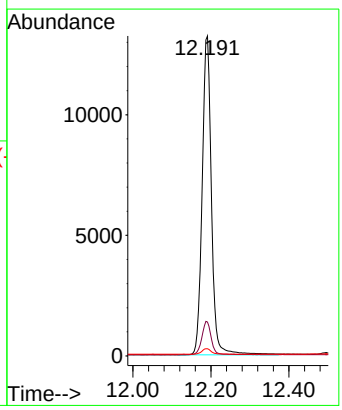


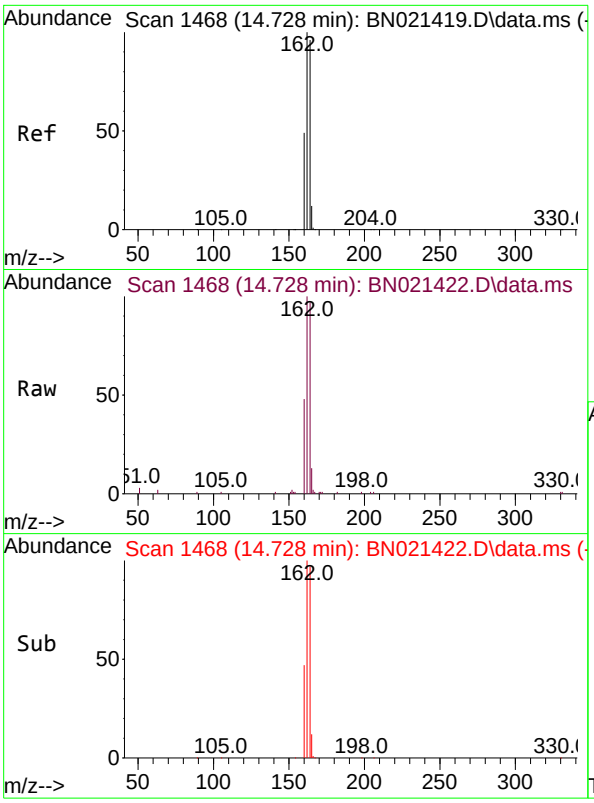


#12
2-Methylnaphthalene
Concen: 2.780 ng
RT: 12.191 min Scan# 1177
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:142 Resp: 21824

Ion	Ratio	Lower	Upper
142	100		
141	10.6	12.2	18.2#
115	2.3	7.9	11.9#



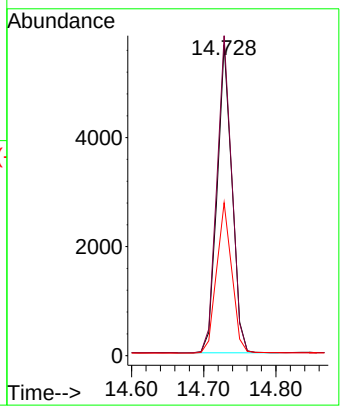


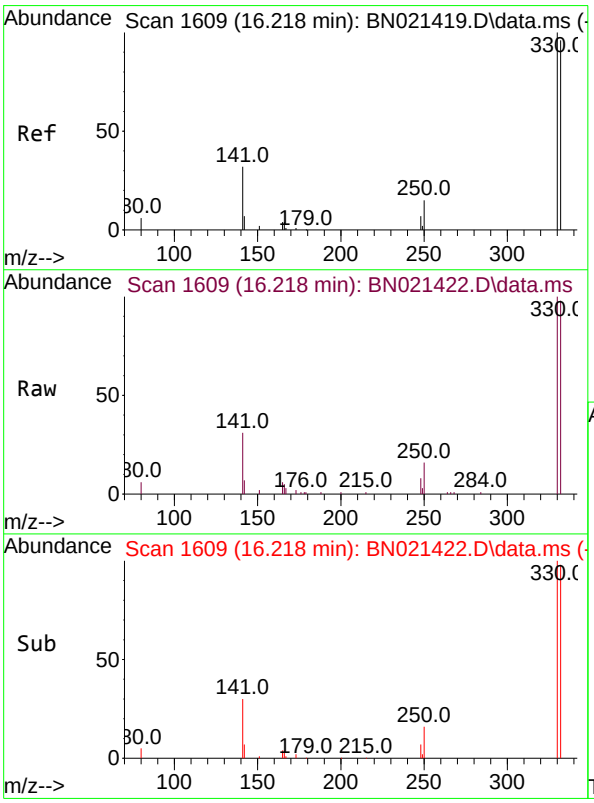
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.728 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 8049

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.4
160	49.2	39.5	59.3

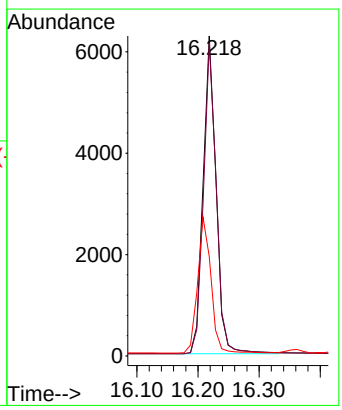


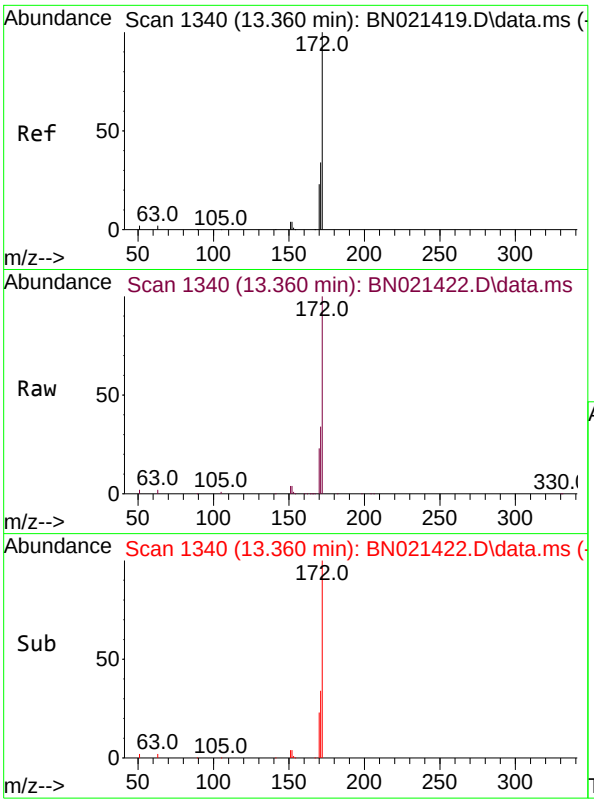


#14
2,4,6-Tribromophenol
Concen: 2.517 ng
RT: 16.218 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:330 Resp: 9280

Ion	Ratio	Lower	Upper
330	100		
332	96.8	79.3	118.9
141	44.1	37.1	55.7



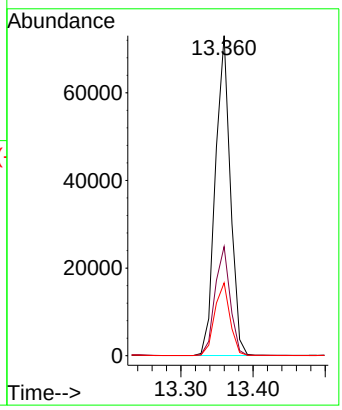


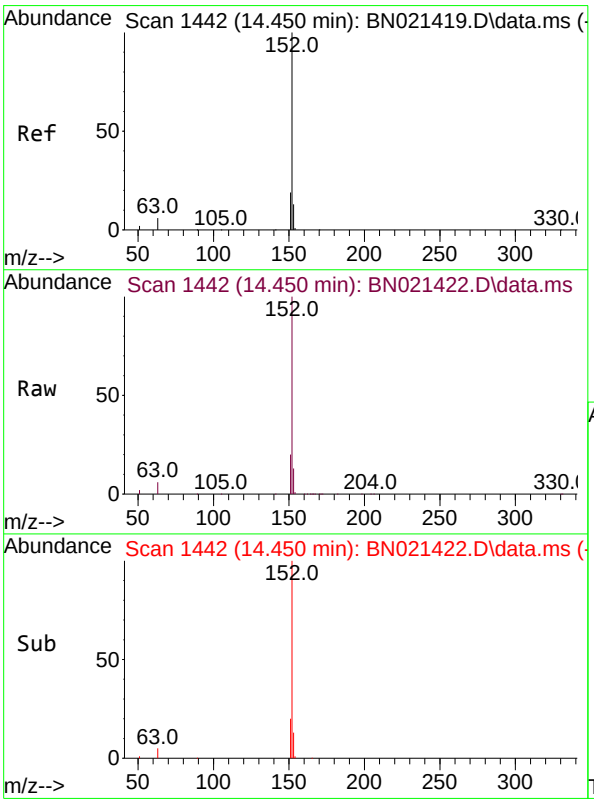
#15
2-Fluorobiphenyl
Concen: 2.918 ng
RT: 13.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 105040

Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.8	41.6
170	22.7	18.6	28.0

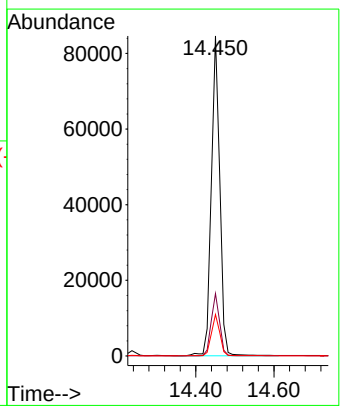


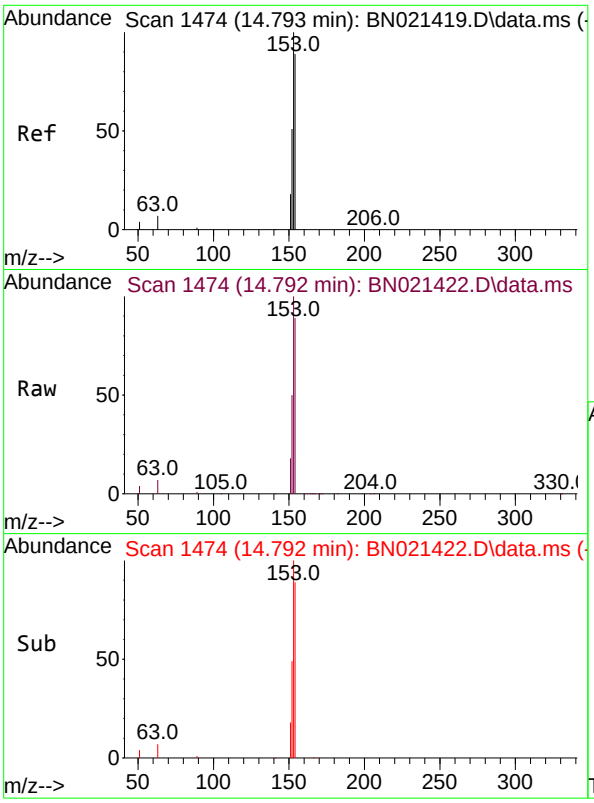


#16
Acenaphthylene
Concen: 3.156 ng
RT: 14.450 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:152 Resp: 127349

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.9	10.3	15.5



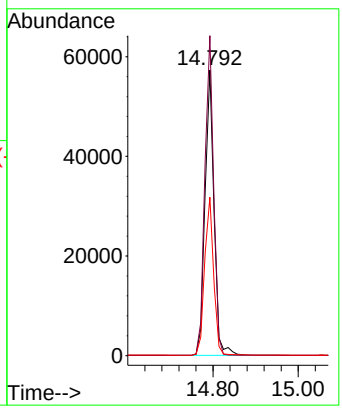


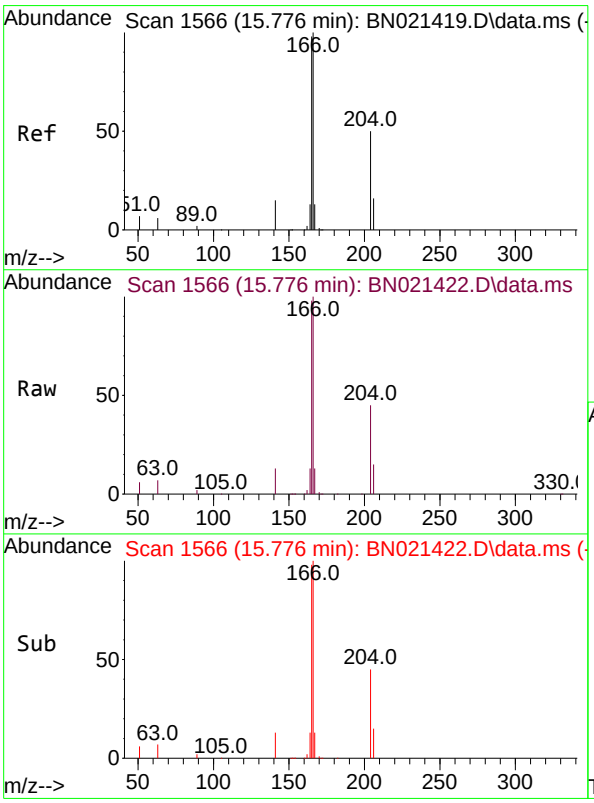
#17
Acenaphthene
Concen: 2.990 ng
RT: 14.792 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 83744

Ion	Ratio	Lower	Upper
154	100		
153	109.9	89.5	134.3
152	55.4	45.5	68.3

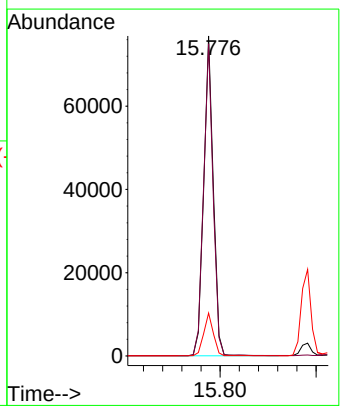


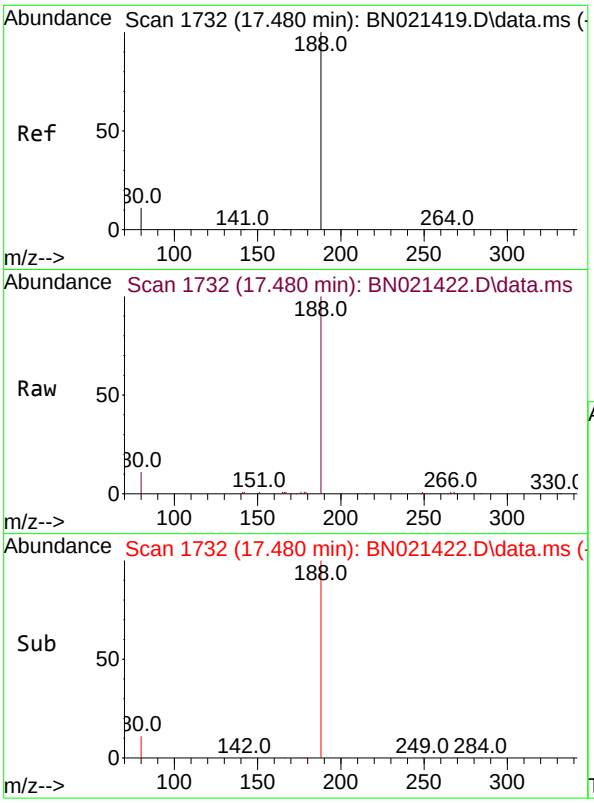


#18
Fluorene
Concen: 2.929 ng
RT: 15.776 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:166 Resp: 102764

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.7	118.1
167	13.4	10.6	16.0



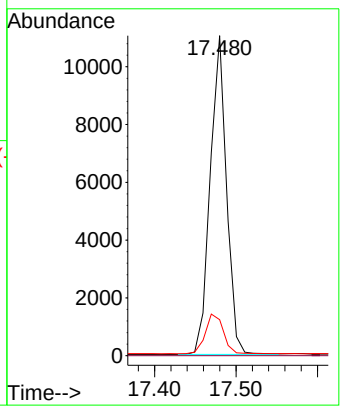


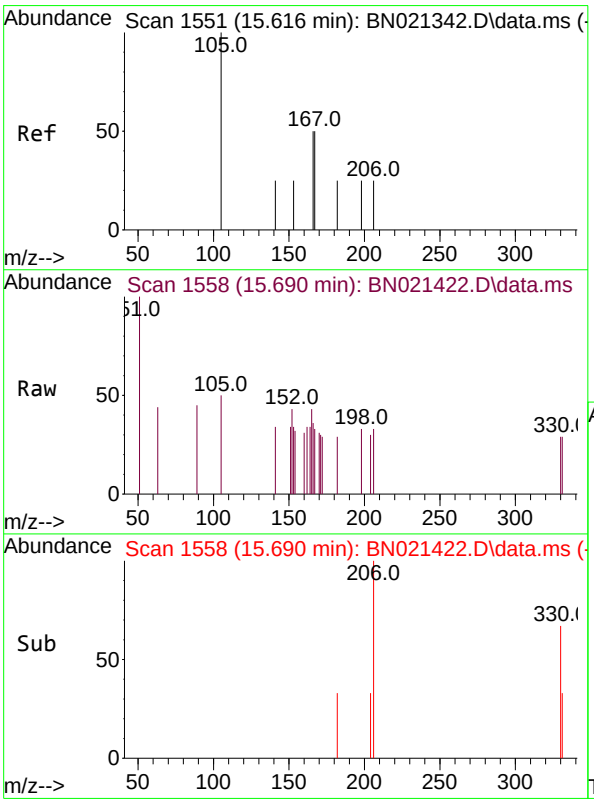
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 15356

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	9.5	14.3

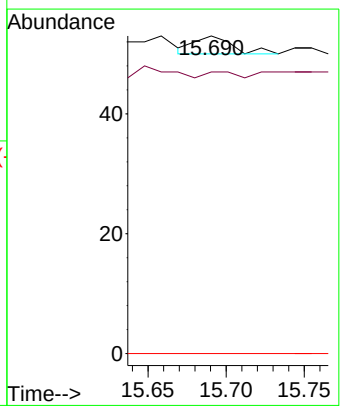


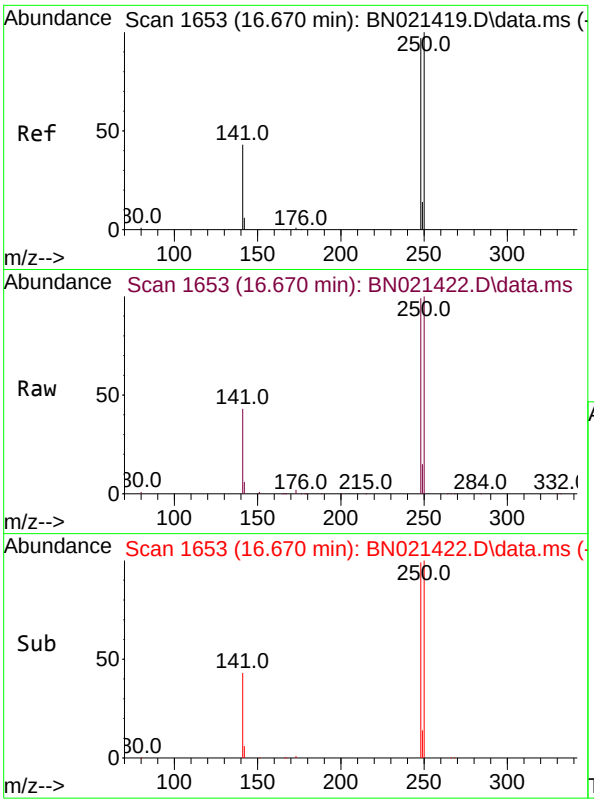


#20
4,6-Dinitro-2-methylphenol
Concen: 0.248 ng
RT: 15.690 min Scan# 1558
Delta R.T. 0.064 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:198 Resp: 5

Ion	Ratio	Lower	Upper
198	100		
182	88.7	86.6	130.0
77	0.0	0.0	0.0



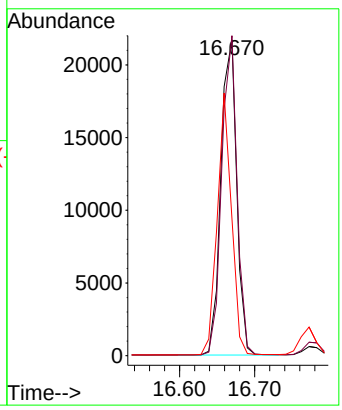


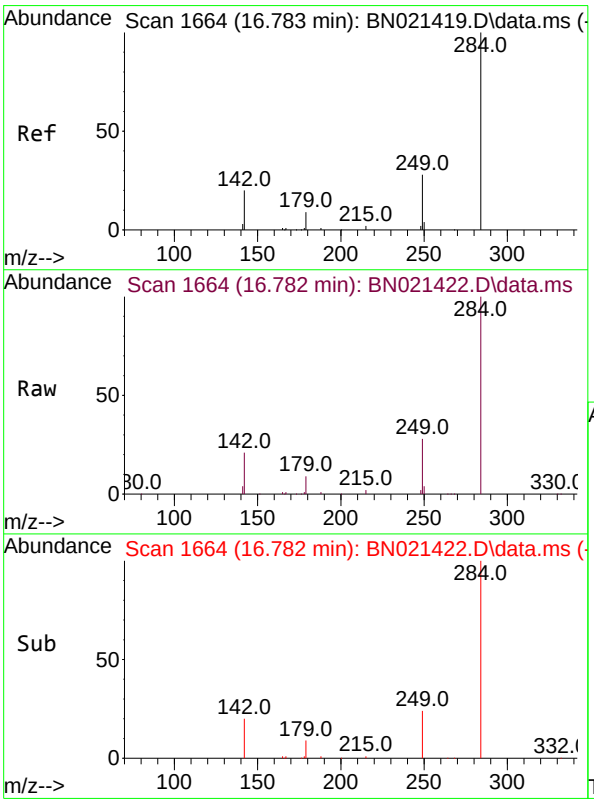
#21
4-Bromophenyl-phenylether
Concen: 3.004 ng
RT: 16.670 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 31586

Ion	Ratio	Lower	Upper
248	100		
250	101.3	81.8	122.6
141	43.3	38.5	57.7

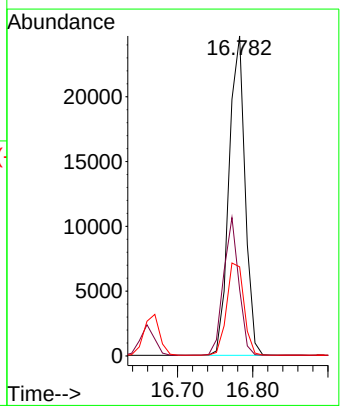


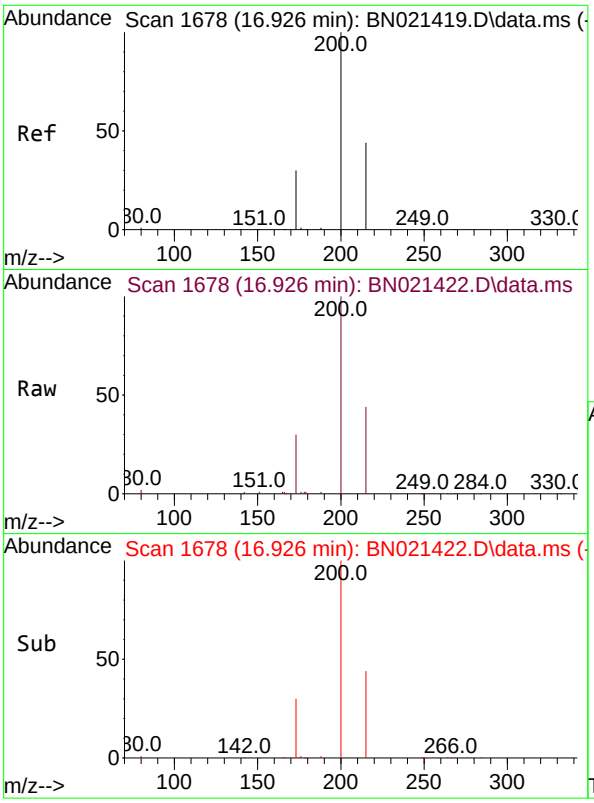


#22
Hexachlorobenzene
Concen: 2.990 ng
RT: 16.782 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:284 Resp: 36484

Ion	Ratio	Lower	Upper
284	100		
142	41.0	32.3	48.5
249	31.1	25.4	38.2



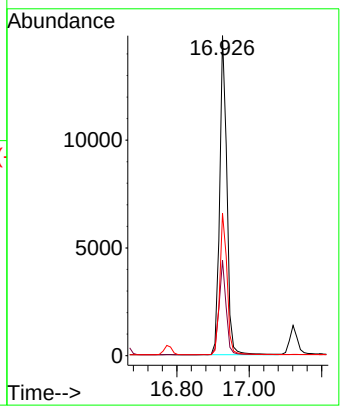


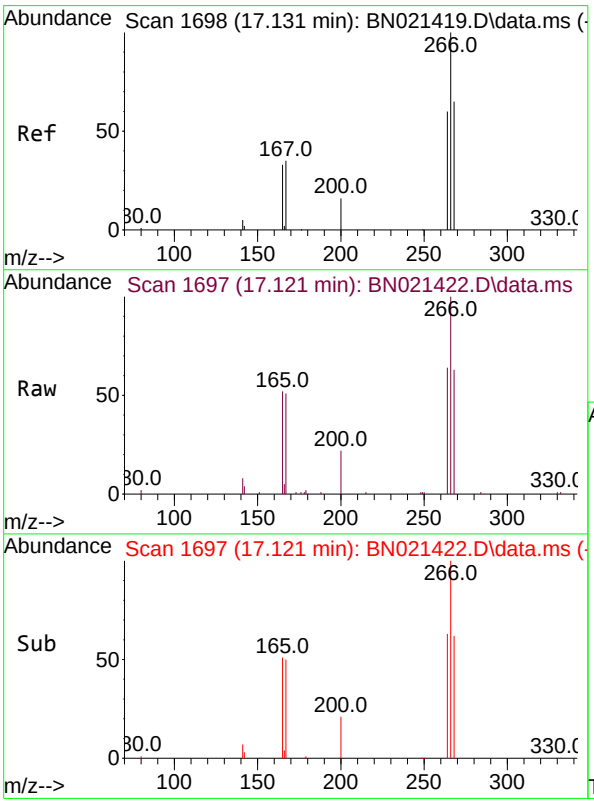
#23
Atrazine
Concen: 3.078 ng
RT: 16.926 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 20456

Ion	Ratio	Lower	Upper
200	100		
173	29.9	24.3	36.5
215	44.5	38.4	57.6

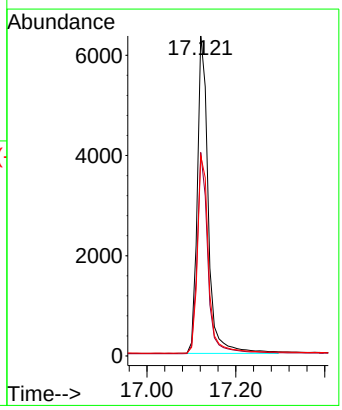


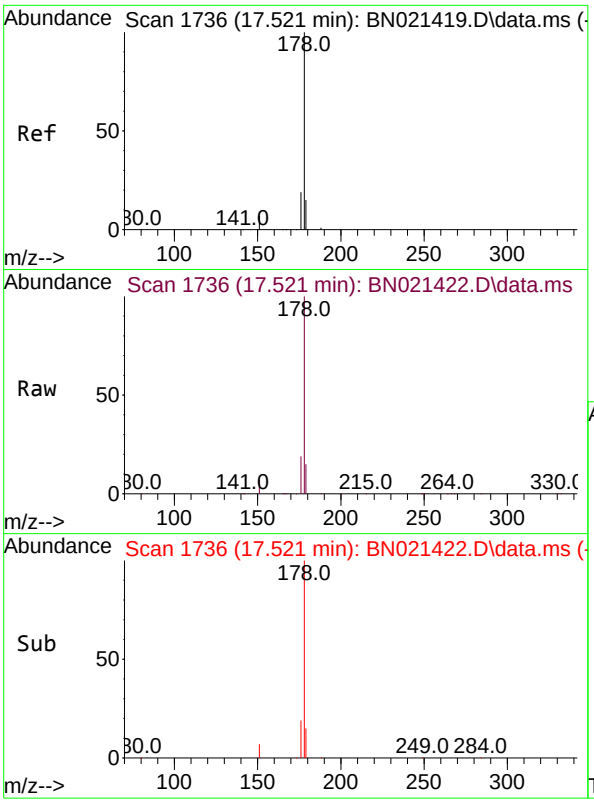


#24
Pentachlorophenol
Concen: 2.567 ng
RT: 17.121 min Scan# 1697
Delta R.T. -0.010 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:266 Resp: 10822

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.0	73.6
268	63.8	50.9	76.3



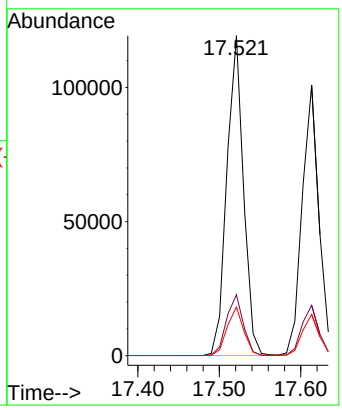


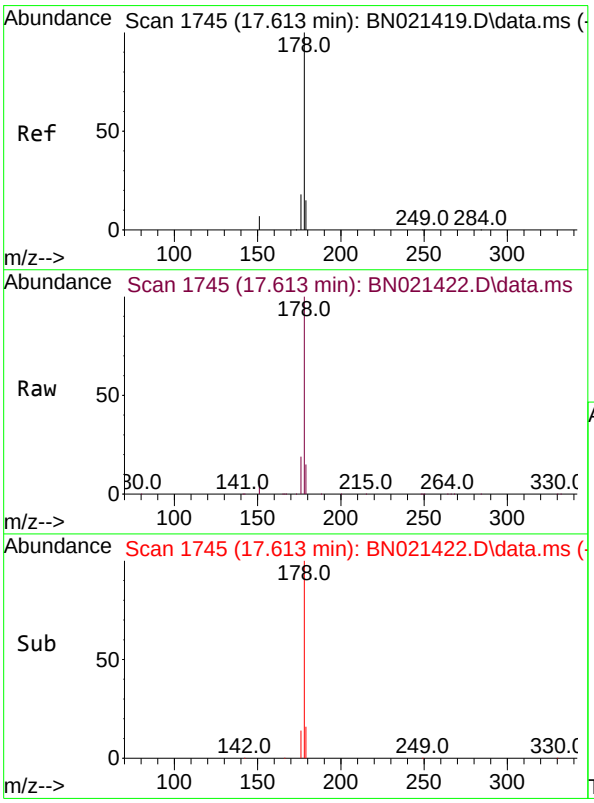
#25
Phenanthrene
Concen: 3.016 ng
RT: 17.521 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 169385

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

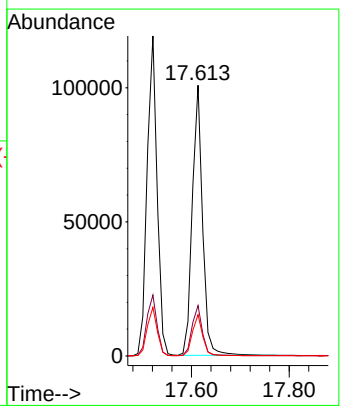


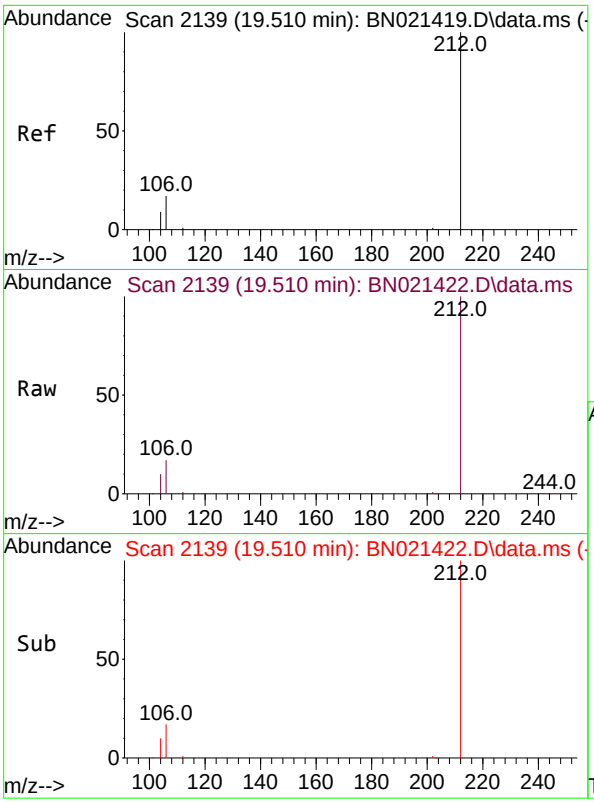


#26
Anthracene
Concen: 3.183 ng
RT: 17.613 min Scan# 1745
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:178 Resp: 146871

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.2	12.2	18.2



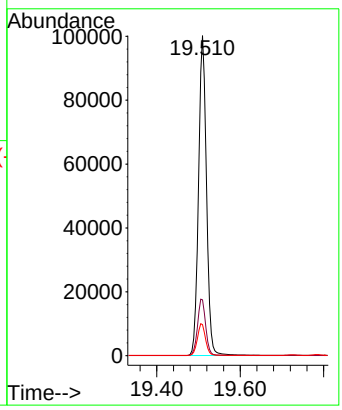


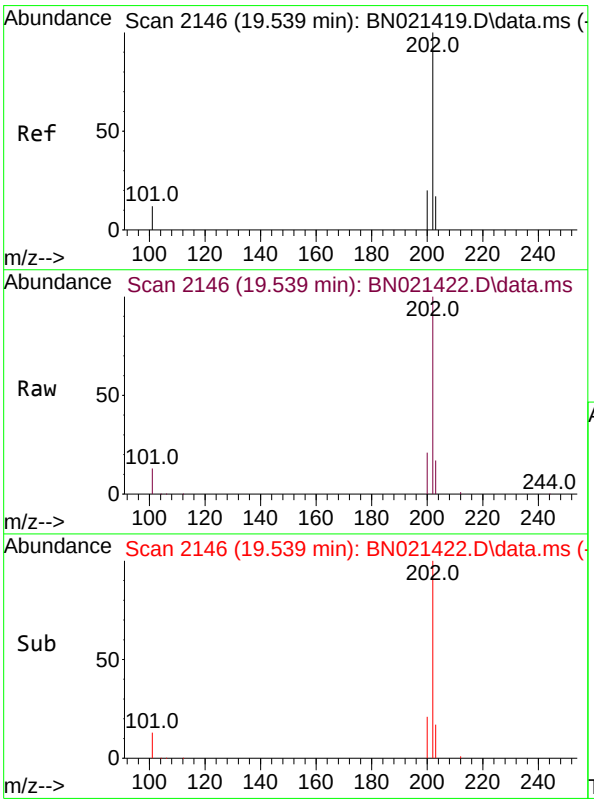
#27
Fluoranthene-d10
Concen: 2.879 ng
RT: 19.510 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 132077

Ion	Ratio	Lower	Upper
212	100		
106	18.1	14.2	21.2
104	10.1	7.8	11.6

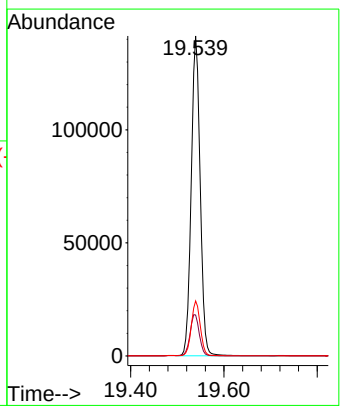


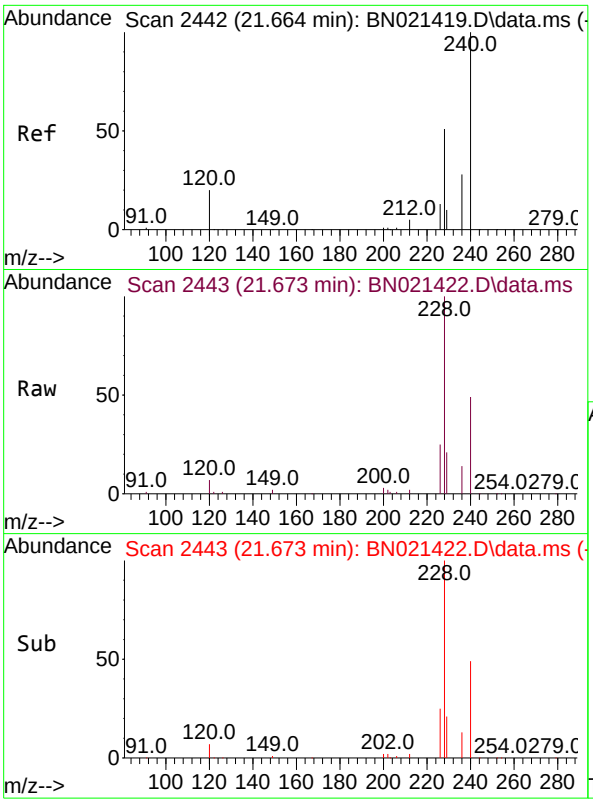


#28
Fluoranthene
Concen: 3.041 ng
RT: 19.539 min Scan# 2146
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:202 Resp: 188015

Ion	Ratio	Lower	Upper
202	100		
101	13.5	10.9	16.3
203	17.2	13.8	20.6



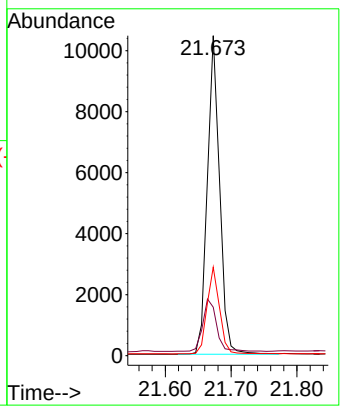


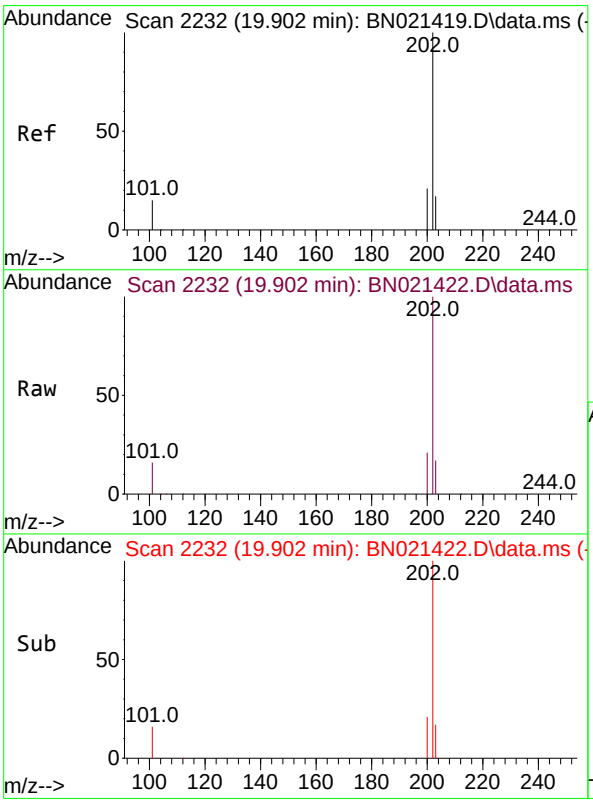
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.673 min Scan# 24
Delta R.T. 0.009 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 13605

Ion	Ratio	Lower	Upper
240	100		
120	15.2	10.2	15.4
236	27.7	22.1	33.1

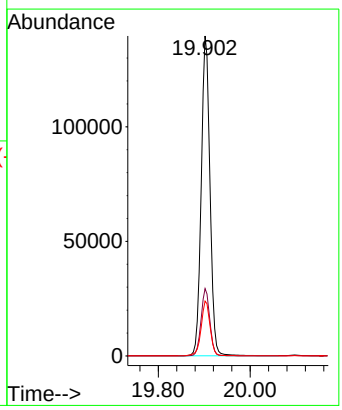


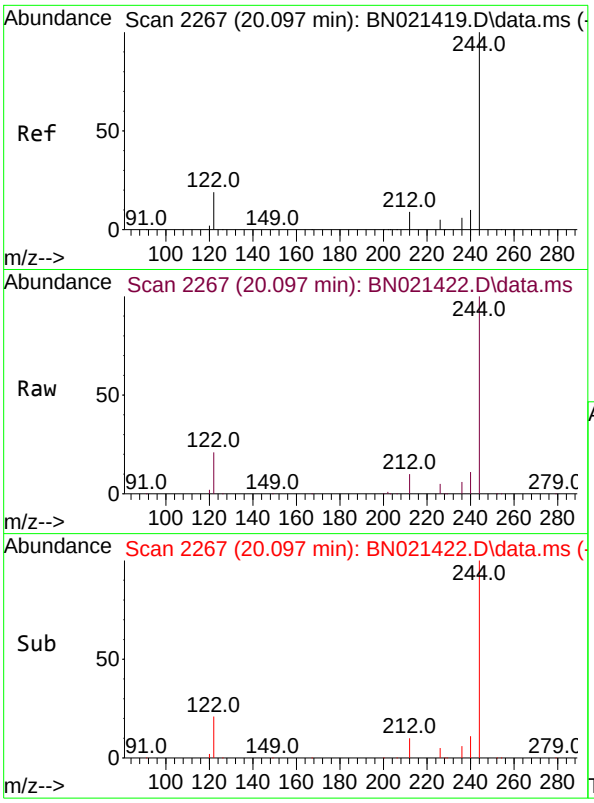


#30
Pyrene
Concen: 3.092 ng
RT: 19.902 min Scan# 2232
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:202 Resp: 211825

Ion	Ratio	Lower	Upper
202	100		
200	21.3	13.9	20.9#
203	17.9	11.9	17.9#



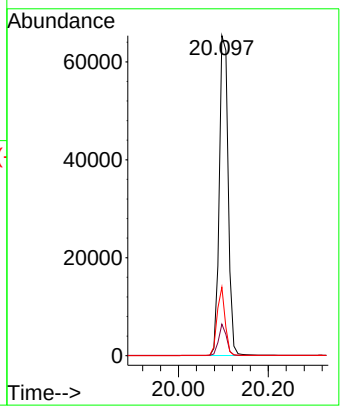


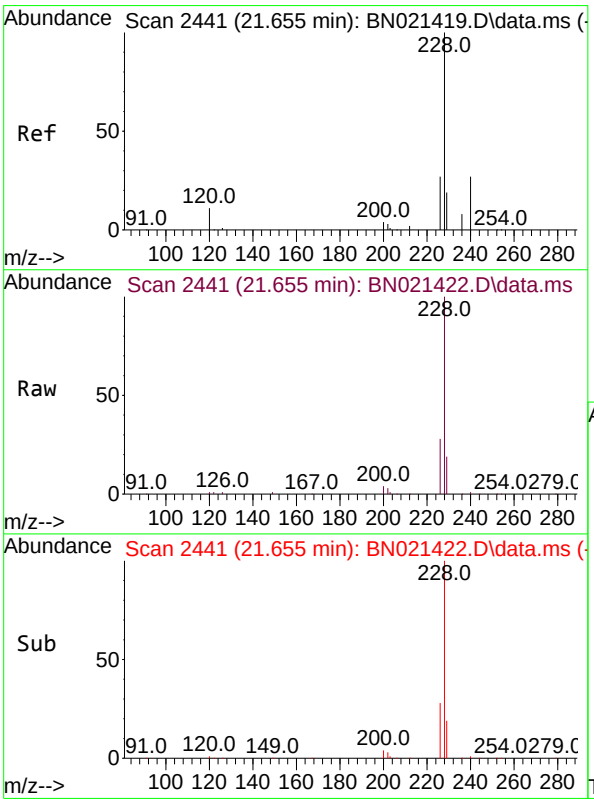
#31
Terphenyl-d14
Concen: 3.008 ng
RT: 20.097 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 86474

Ion	Ratio	Lower	Upper
244	100		
212	9.8	6.5	9.7#
122	21.4	9.1	13.7#

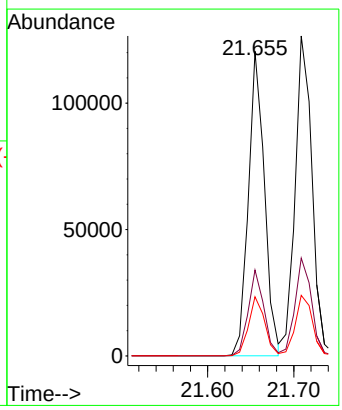


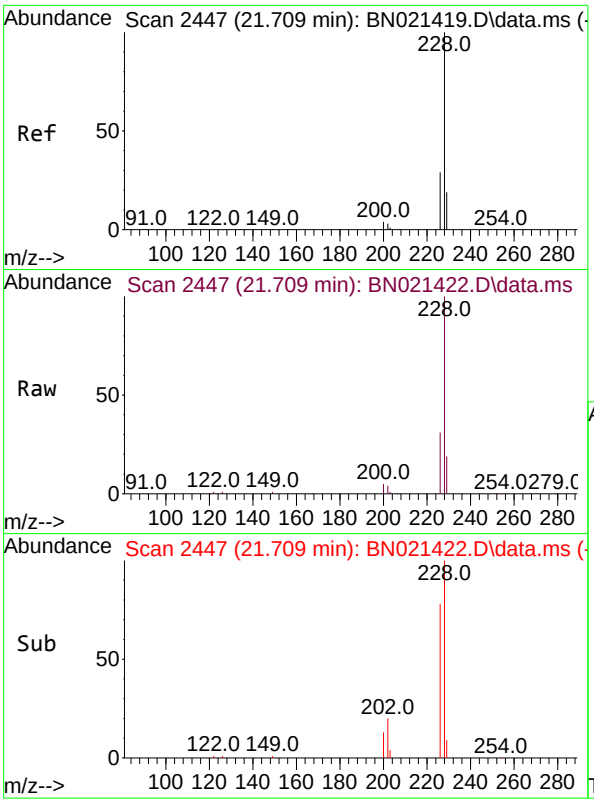


#32
Benzo(a)anthracene
Concen: 3.036 ng
RT: 21.655 min Scan# 2441
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:228 Resp: 156391

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.0	33.0
229	19.5	15.9	23.9



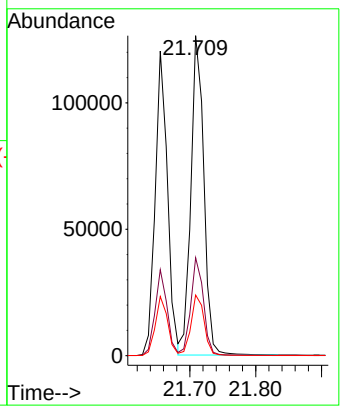


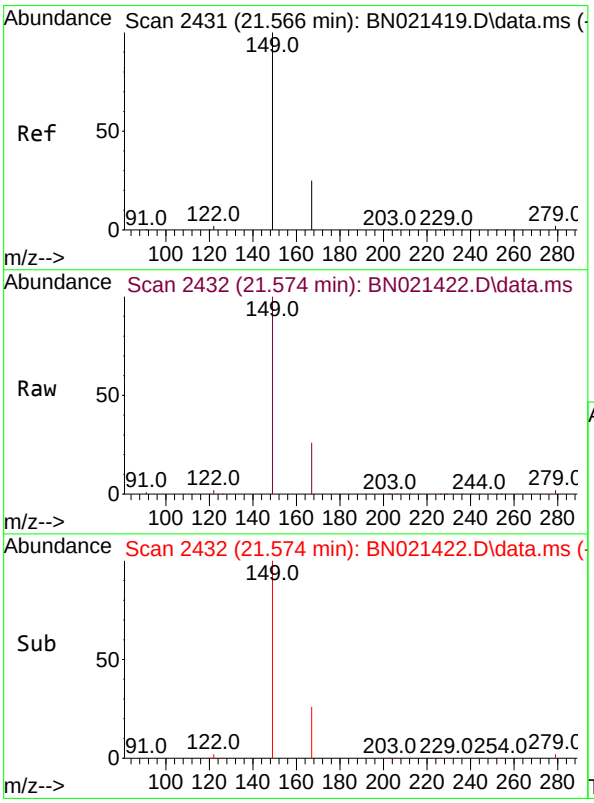
#33
Chrysene
Concen: 3.068 ng
RT: 21.709 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 172221

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.2	36.2
229	19.0	15.9	23.9

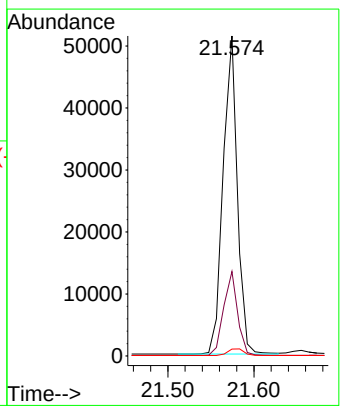


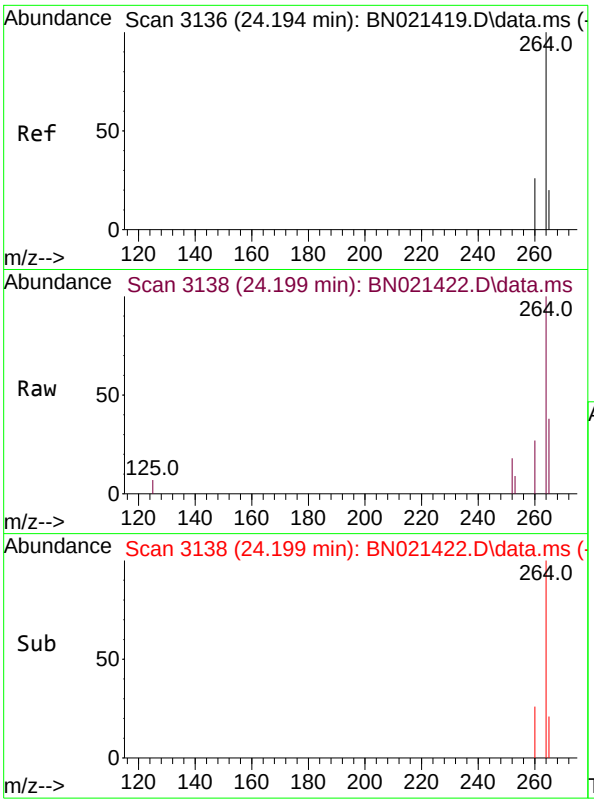


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.365 ng
RT: 21.574 min Scan# 2432
Delta R.T. 0.009 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:149 Resp: 58722

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.4	32.0
279	2.4	2.2	3.2



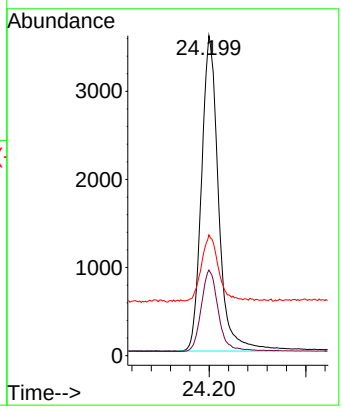


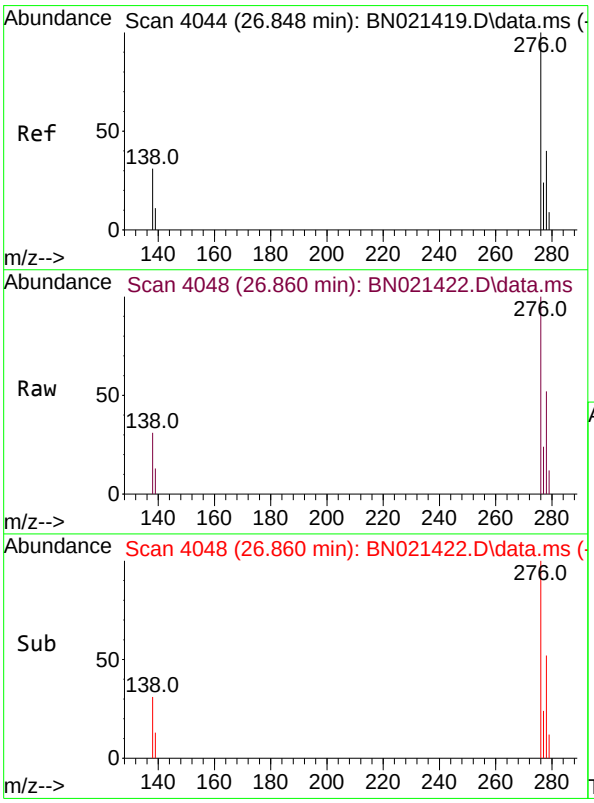
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.199 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 8793

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.0	31.6
265	37.8	32.2	48.2

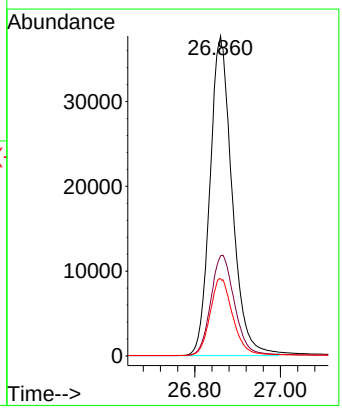


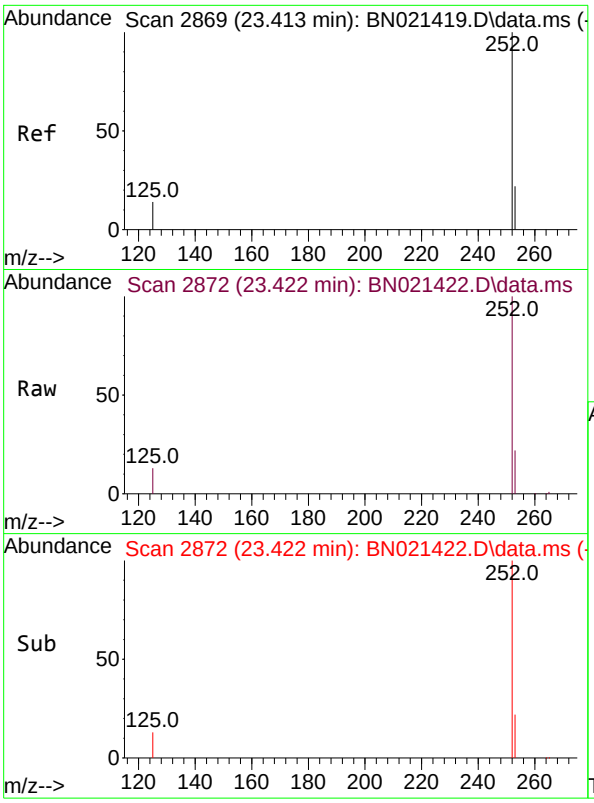


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.014 ng
RT: 26.860 min Scan# 4048
Delta R.T. 0.012 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:276 Resp: 134795

Ion	Ratio	Lower	Upper
276	100		
138	33.7	27.4	41.2
277	24.8	19.9	29.9



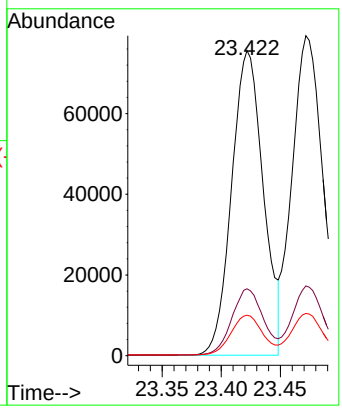


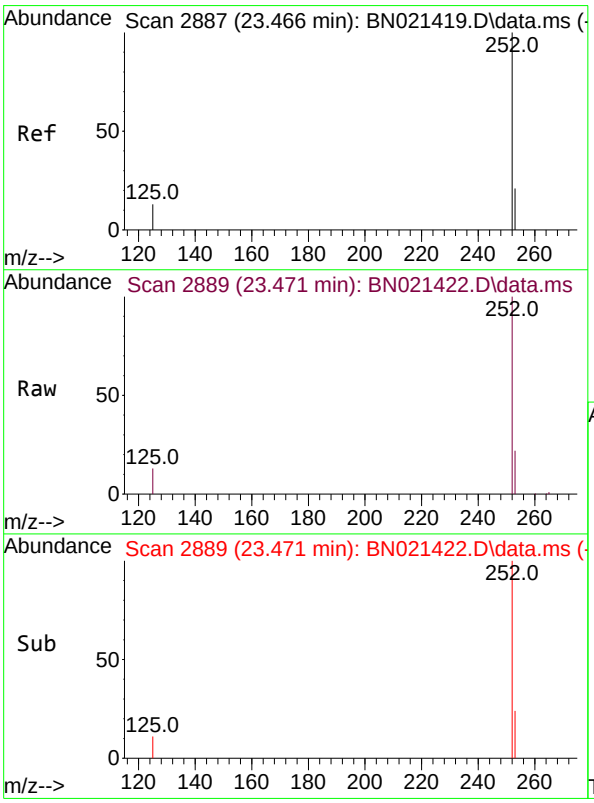
#37
Benzo(b)fluoranthene
Concen: 3.626 ng
RT: 23.422 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 140612

Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.8	29.6
125	13.3	13.7	20.5#

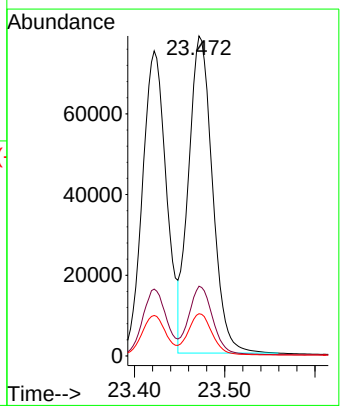


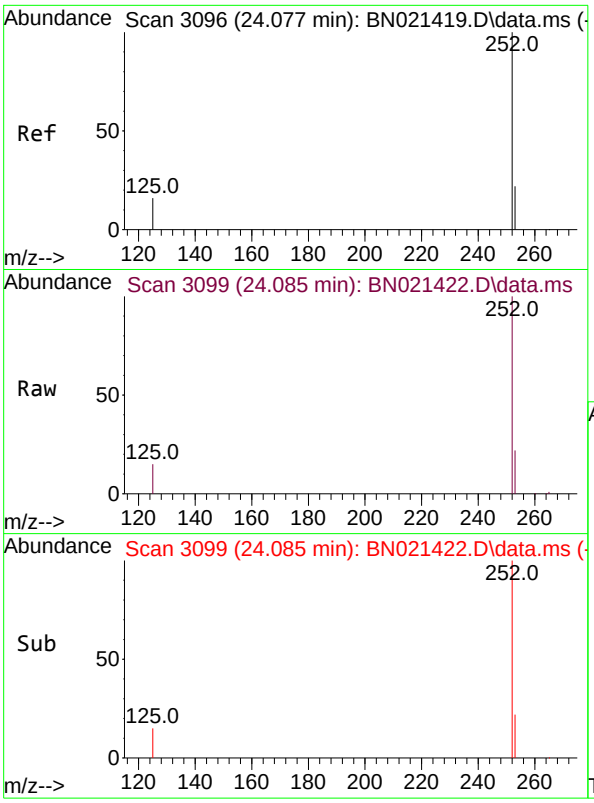


#38
Benzo(k)fluoranthene
Concen: 3.612 ng
RT: 23.471 min Scan# 2889
Delta R.T. 0.006 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:252 Resp: 144737

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	13.2	12.3	18.5



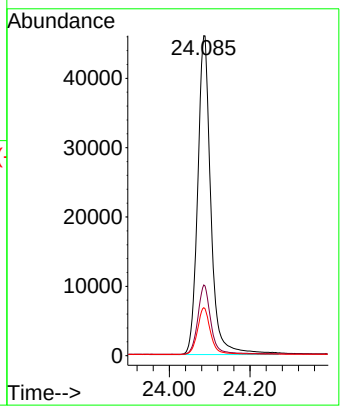


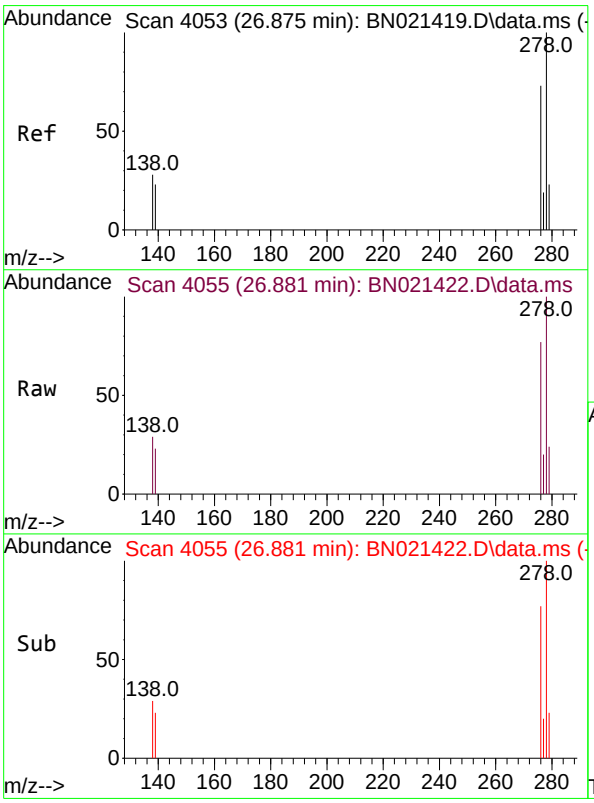
#39
Benzo(a)pyrene
Concen: 3.303 ng
RT: 24.085 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 103955

Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.1	31.7
125	15.0	16.6	25.0#

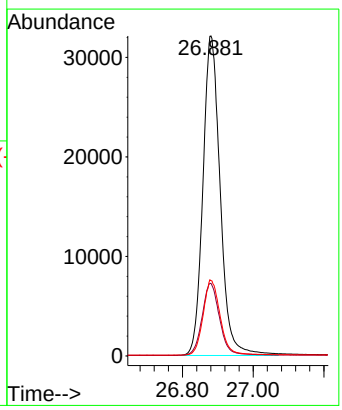


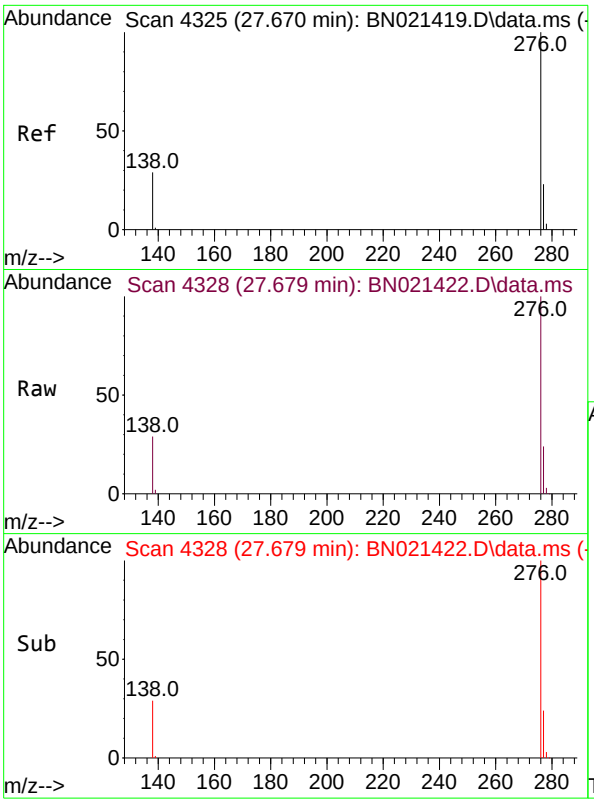


#40
Dibenzo(a,h)anthracene
Concen: 2.968 ng
RT: 26.881 min Scan# 4055
Delta R.T. 0.006 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Tgt Ion:278 Resp: 109209

Ion	Ratio	Lower	Upper
278	100		
139	22.7	21.8	32.6
279	23.6	20.4	30.6





#41
Benzo(g,h,i)perylene
Concen: 2.883 ng
RT: 27.679 min Scan# 4
Delta R.T. 0.009 min
Lab File: BN021422.D
Acq: 29 Aug 2022 14:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 111636

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.7	29.5
138	28.9	23.7	35.5