Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN020723\
Data File : BN023965.D
Acq On : 07 Feb 2023 11:26
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Feb 08 01:30:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN020723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 08 01:29:21 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.840	152	4933	0.400	ng		0.00
7) Naphthalene-d8	10.648	136	12133	0.400	ng		0.00
13) Acenaphthene-d10	14.485	164	7568	0.400	ng		0.00
19) Phenanthrene-d10	17.241	188	16994	0.400	ng		0.00
29) Chrysene-d12	21.428	240	14293	0.400	ng		# 0.00
35) Perylene-d12	23.808	264	11143	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.399	112	2115	0.206	ng		0.00
5) Phenol-d6	7.009	99	2378	0.197	ng		0.00
8) Nitrobenzene-d5	9.003	82	1850	0.190	ng		0.00
11) 2-Methylnaphthalene-d10	12.238	152	3246	0.193	ng		0.00
14) 2,4,6-Tribromophenol	15.987	330	693	0.178	ng		0.00
15) 2-Fluorobiphenyl	13.116	172	5778	0.193	ng		0.00
27) Fluoranthene-d10	19.271	212	7706	0.187	ng		0.00
31) Terphenyl-d14	19.869	244	5489	0.206	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.268	88	946	0.202	ng		94
3) n-Nitrosodimethylamine	3.608	42	1002	0.191	ng		95
6) bis(2-Chloroethyl)ether	7.269	93	2519	0.209	ng		98
9) Naphthalene	10.690	128	5961	0.197	ng		97
10) Hexachlorobutadiene	10.979	225	1594	0.201	ng	#	99
12) 2-Methylnaphthalene	12.314	142	3913	0.194	ng		98
16) Acenaphthylene	14.207	152	5179	0.176	ng		100
17) Acenaphthene	14.549	154	3780	0.188	ng		99
18) Fluorene	15.543	166	5223	0.192	ng		100
20) 4,6-Dinitro-2-methylph...	15.628	198	415	0.137	ng	#	62
21) 4-Bromophenyl-phenylether	16.434	248	2030	0.184	ng		97
22) Hexachlorobenzene	16.546	284	2534	0.191	ng		100
23) Atrazine	16.707	200	1317	0.182	ng		98
24) Pentachlorophenol	16.893	266	696	0.137	ng		99
25) Phenanthrene	17.278	178	8851	0.189	ng		99
26) Anthracene	17.365	178	6984	0.181	ng		99
28) Fluoranthene	19.304	202	9962	0.185	ng		100
30) Pyrene	19.667	202	9950	0.201	ng		99
32) Benzo(a)anthracene	21.410	228	8635	0.189	ng		99
33) Chrysene	21.464	228	9756	0.198	ng		100
34) Bis(2-ethylhexyl)phtha...	21.339	149	4058	0.194	ng	#	99
36) Indeno(1,2,3-cd)pyrene	26.264	276	9064	0.179	ng		99
37) Benzo(b)fluoranthene	23.083	252	8760	0.194	ng	#	87
38) Benzo(k)fluoranthene	23.129	252	8453	0.190	ng	#	88
39) Benzo(a)pyrene	23.700	252	6455	0.189	ng	#	81
40) Dibenzo(a,h)anthracene	26.281	278	7143	0.176	ng		92
41) Benzo(g,h,i)perylene	27.015	276	7731	0.180	ng		95

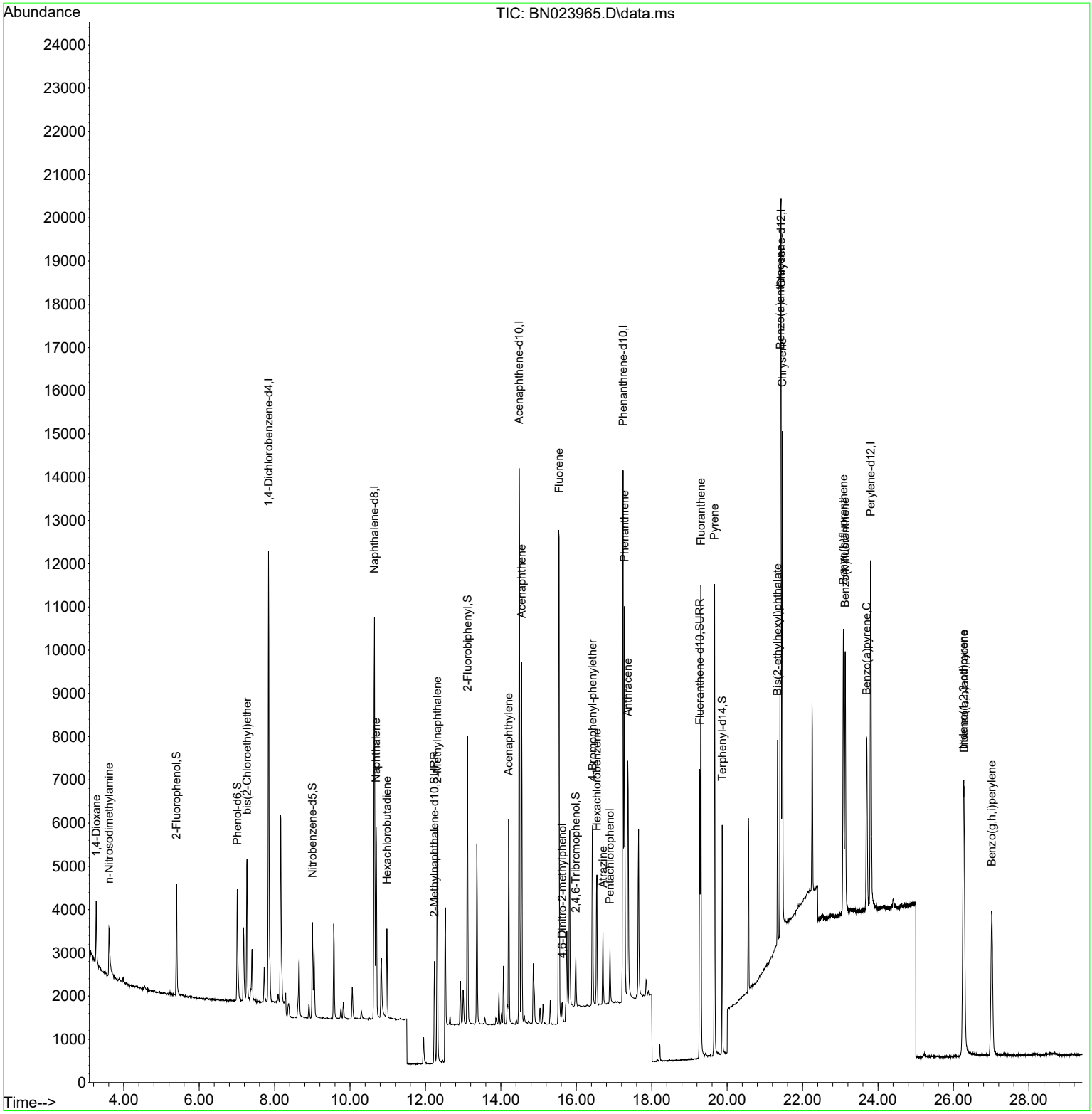
(#) = qualifier out of range (m) = manual integration (+) = signals summed

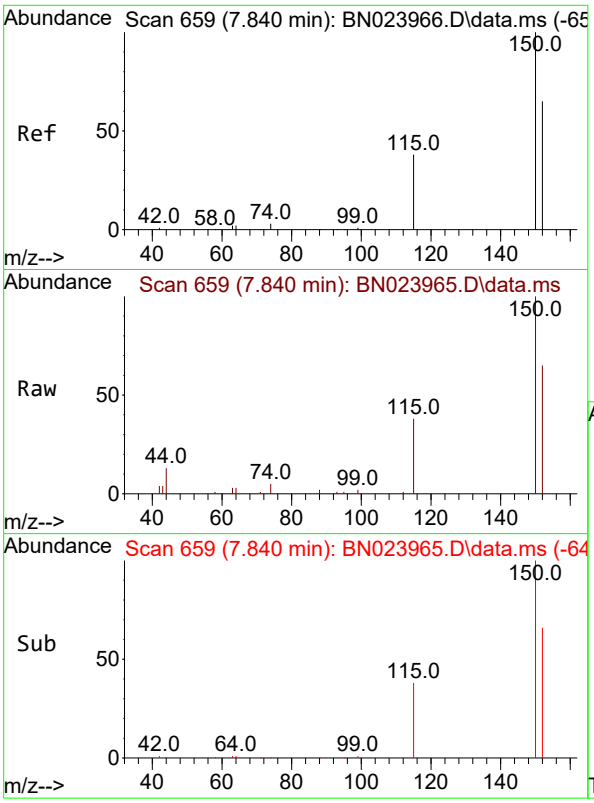
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN020723\
Data File : BN023965.D
Acq On : 07 Feb 2023 11:26
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Feb 08 01:30:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN020723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 08 01:29:21 2023
Response via : Initial Calibration



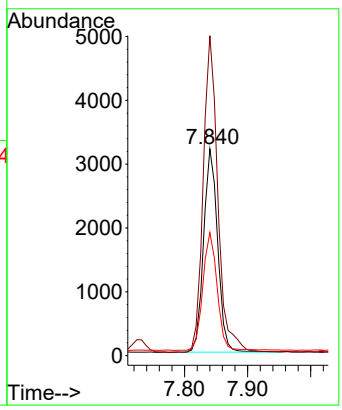


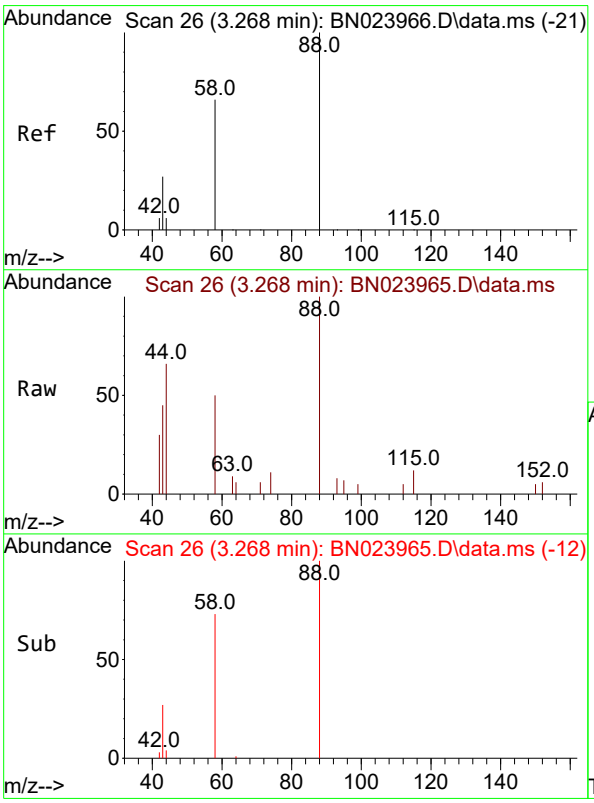
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4933

Ion	Ratio	Lower	Upper
152	100		
150	154.6	121.8	182.6
115	59.5	47.7	71.5

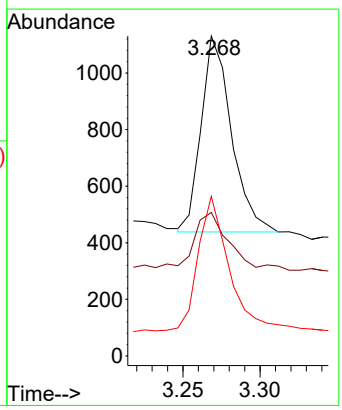


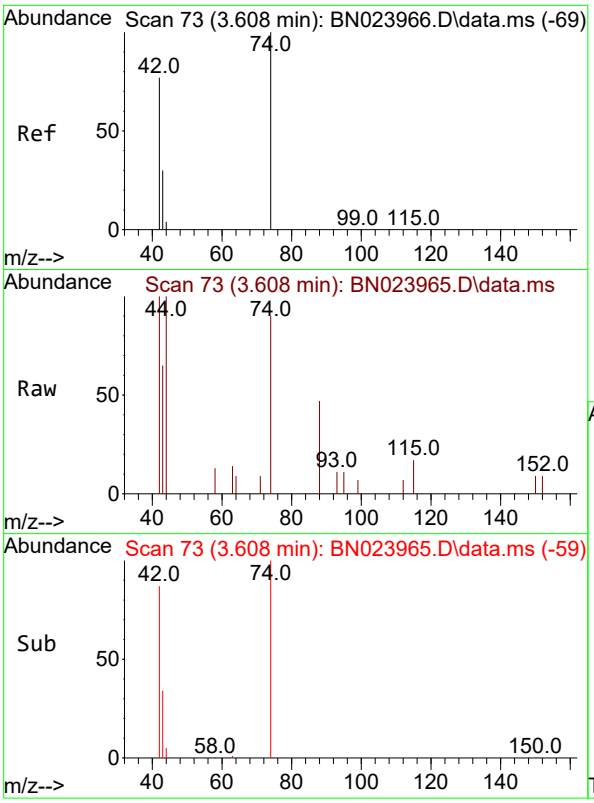


#2
1,4-Dioxane
Concen: 0.202 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion: 88 Resp: 946

Ion	Ratio	Lower	Upper
88	100		
43	34.7	23.7	35.5
58	70.3	53.4	80.2



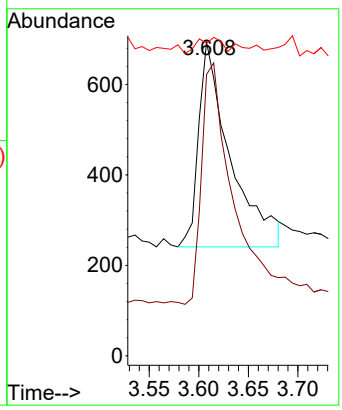


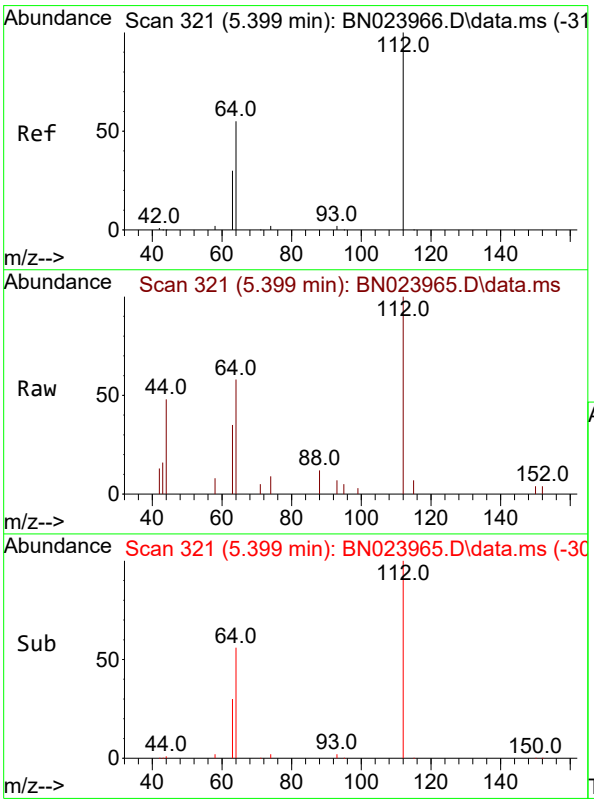
#3
n-Nitrosodimethylamine
Concen: 0.191 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1002

Ion	Ratio	Lower	Upper
42	100		
74	117.9	99.3	148.9
44	5.9	4.2	6.4

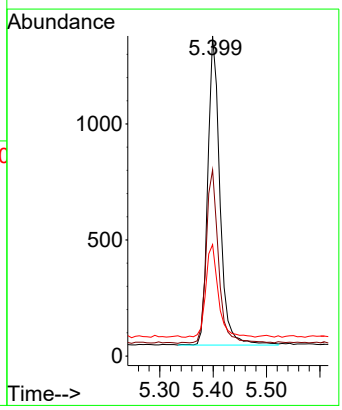


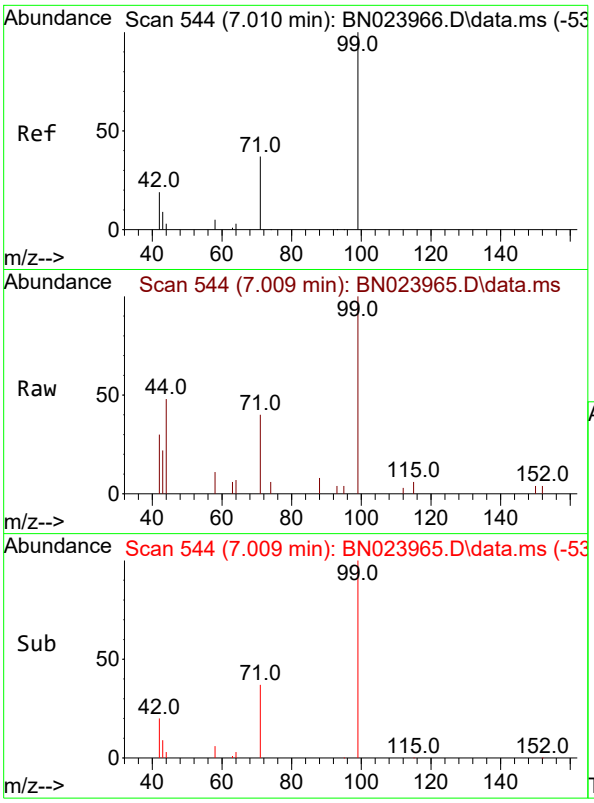


#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:112 Resp: 2115

Ion	Ratio	Lower	Upper
112	100		
64	57.2	44.8	67.2
63	30.7	25.1	37.7



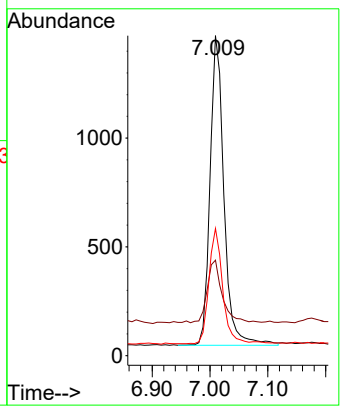


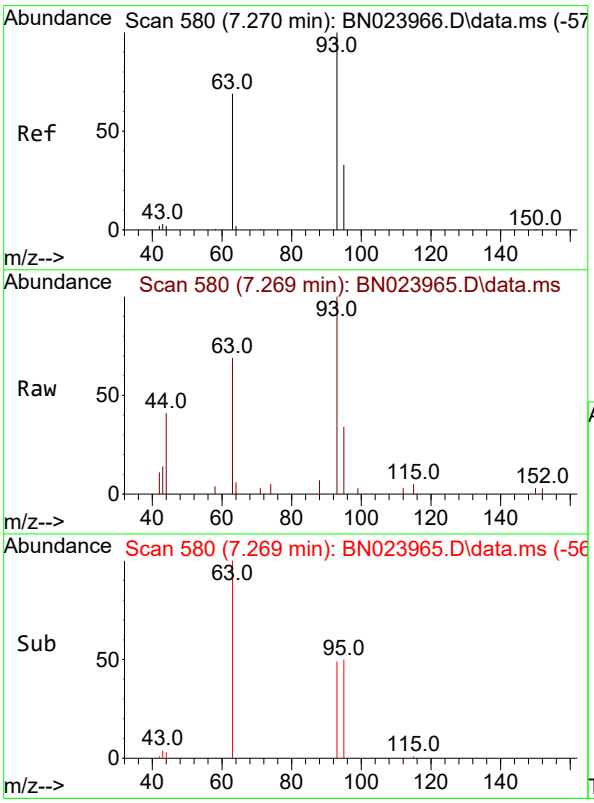
#5
Phenol-d6
Concen: 0.197 ng
RT: 7.009 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 2378

Ion	Ratio	Lower	Upper
99	100		
42	21.6	17.0	25.6
71	36.6	29.0	43.4

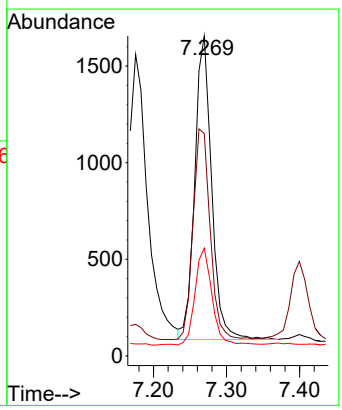


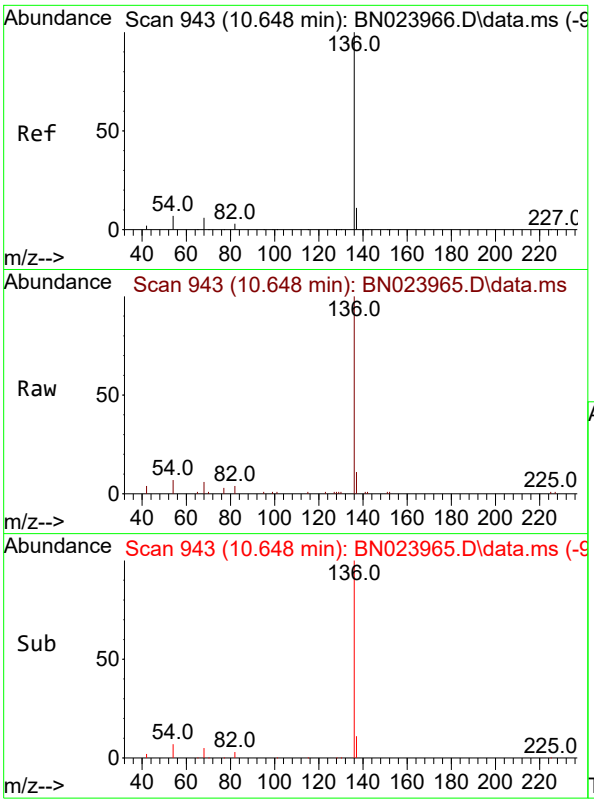


#6
bis(2-Chloroethyl)ether
Concen: 0.209 ng
RT: 7.269 min Scan# 580
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion: 93 Resp: 2519

Ion	Ratio	Lower	Upper
93	100		
63	70.3	58.4	87.6
95	32.4	25.8	38.6



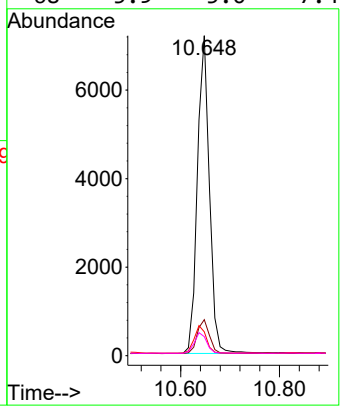


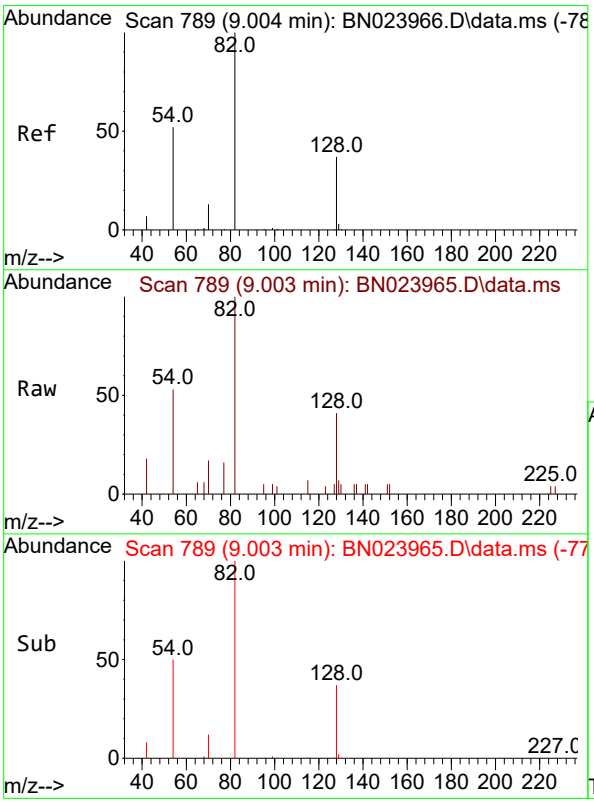
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 12133

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.4	5.8	8.8
68	5.9	5.0	7.4

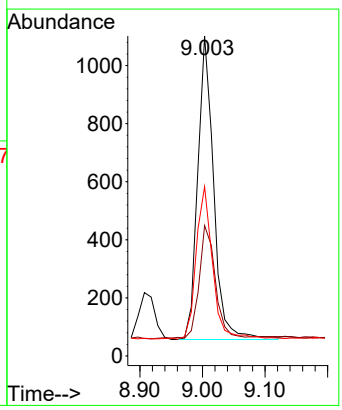


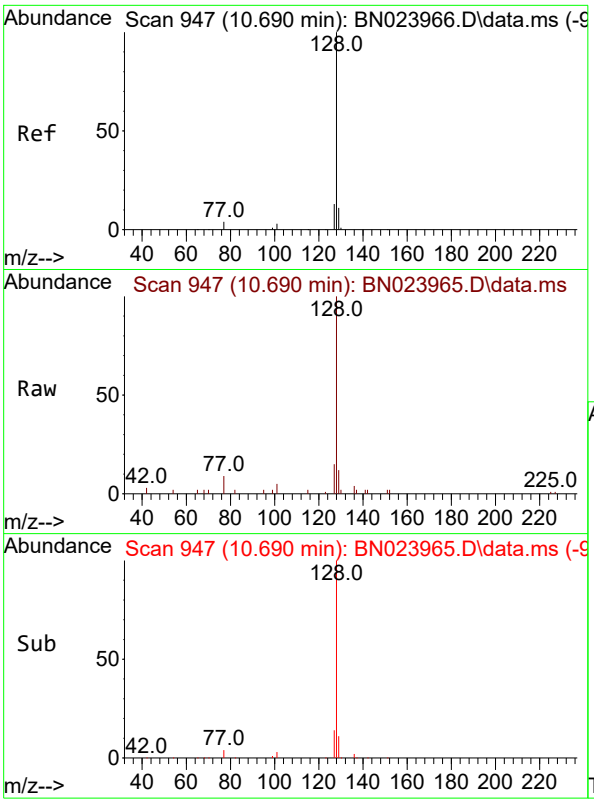


#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 9.003 min Scan# 789
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion: 82 Resp: 1850

Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.5	47.3
54	52.9	42.8	64.2



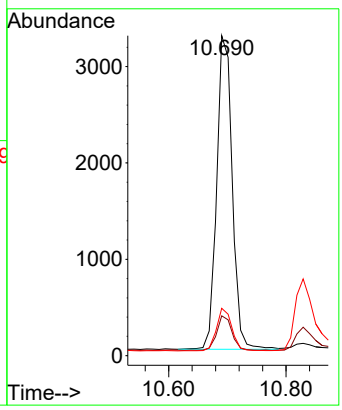


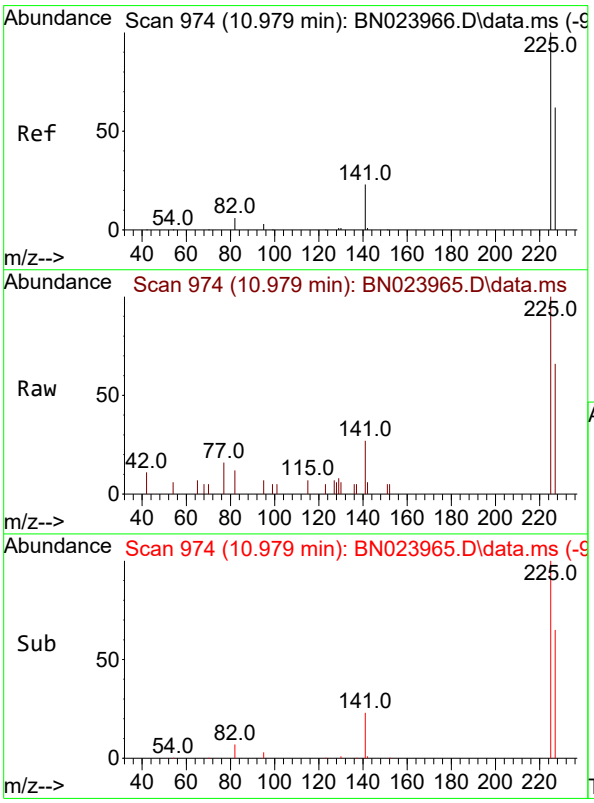
#9
Naphthalene
Concen: 0.197 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 5961

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.3	13.9
127	14.8	11.0	16.4

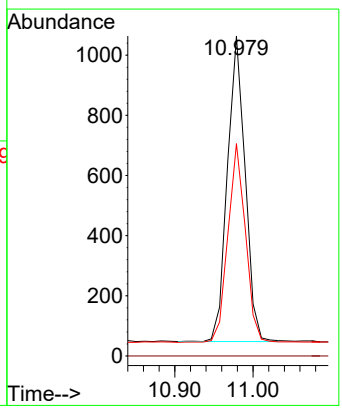


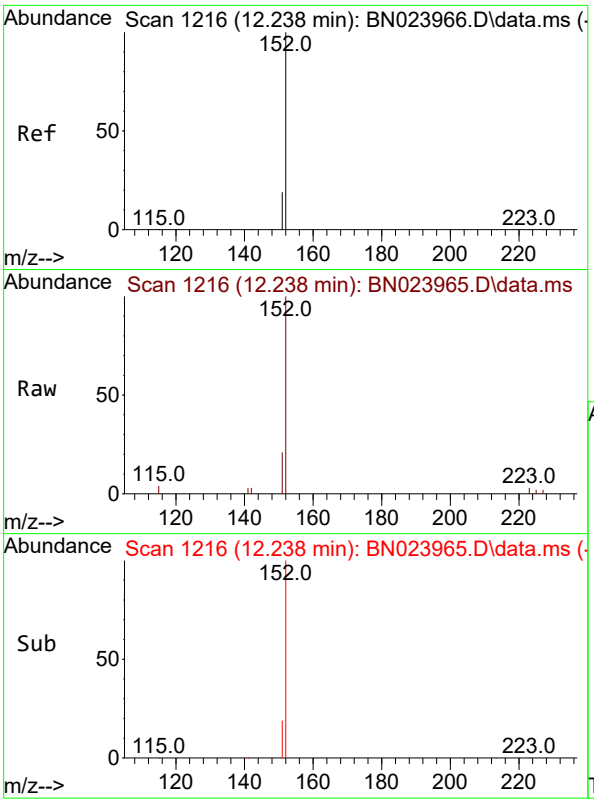


#10
Hexachlorobutadiene
Concen: 0.201 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:225 Resp: 1594

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.1	76.7



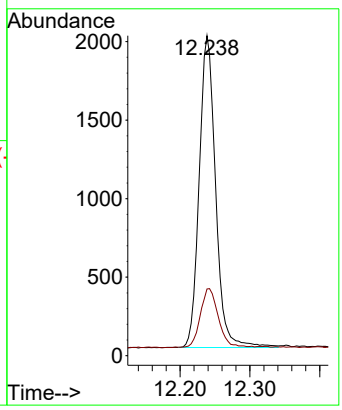


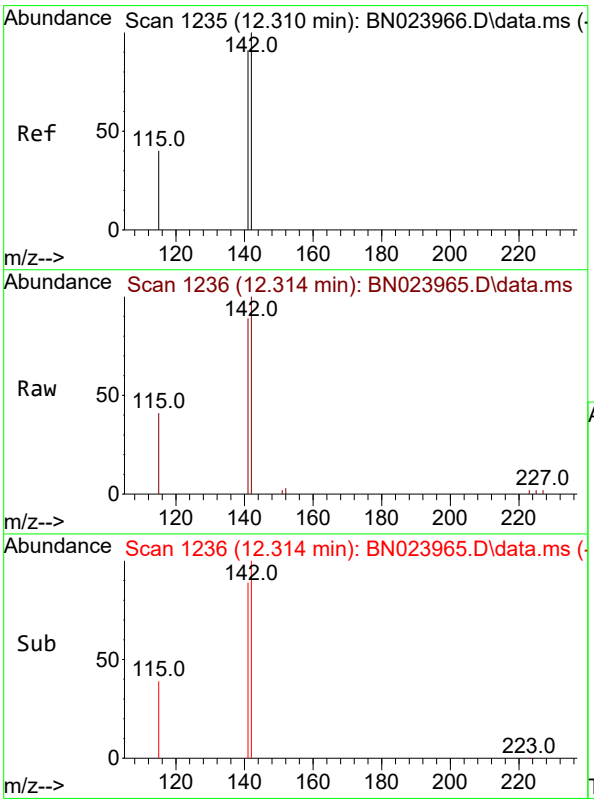
#11
2-Methylnaphthalene-d10
Concen: 0.193 ng
RT: 12.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 3246

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	24.8

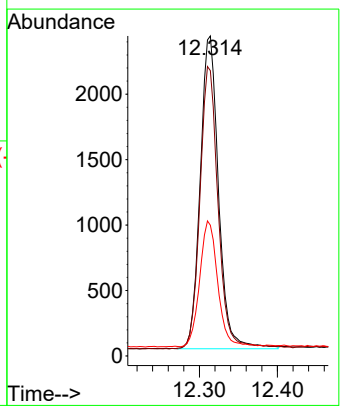


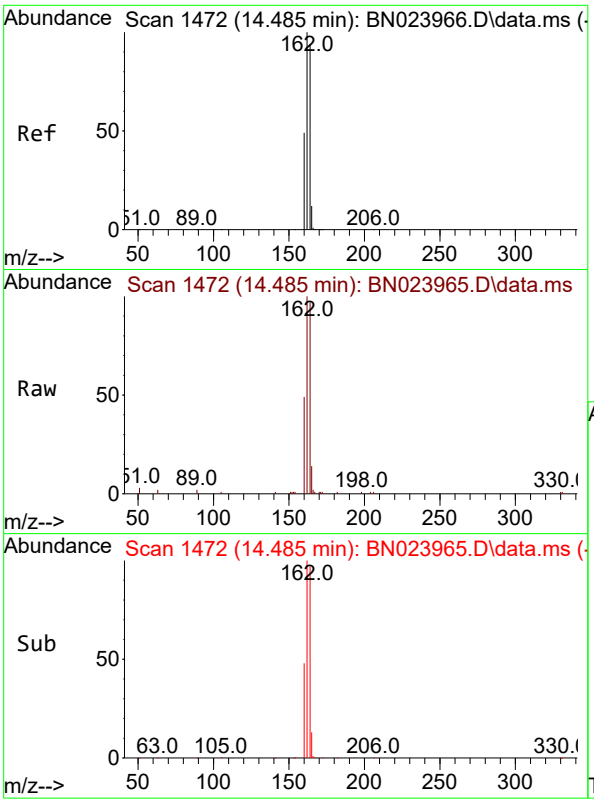


#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 12.314 min Scan# 1236
Delta R.T. 0.004 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:142 Resp: 3913

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.9	109.3
115	40.9	33.1	49.7



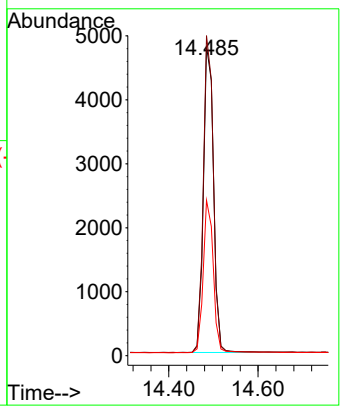


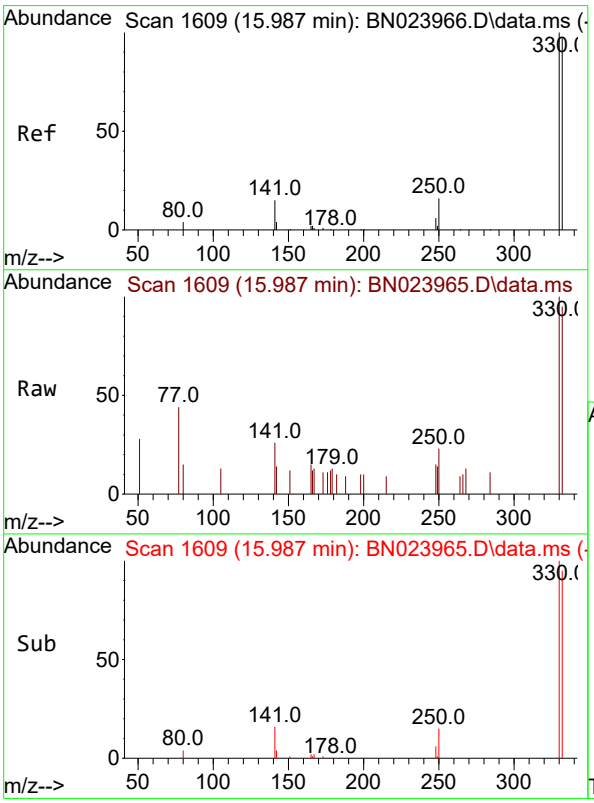
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.485 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 7568

Ion	Ratio	Lower	Upper
164	100		
162	103.4	84.8	127.2
160	50.2	42.0	63.0

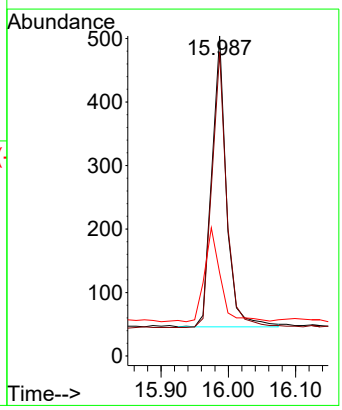


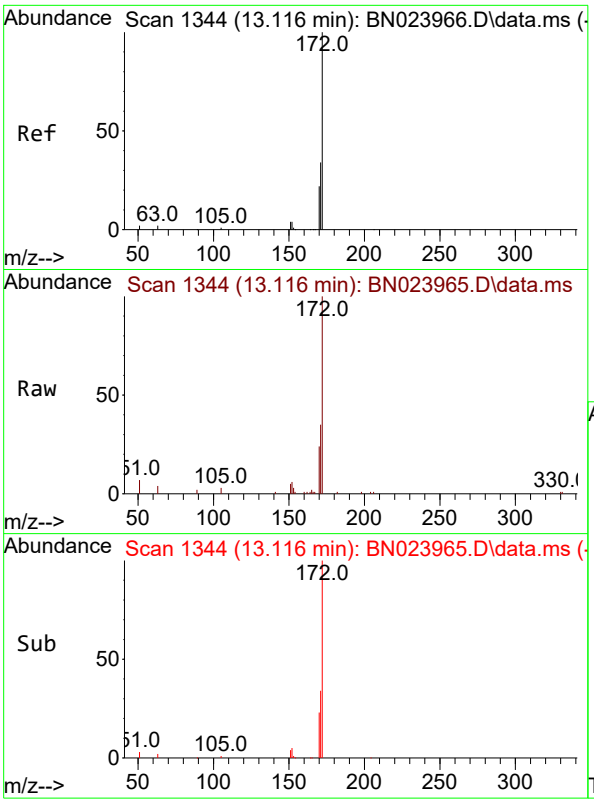


#14
2,4,6-Tribromophenol
Concen: 0.178 ng
RT: 15.987 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:330 Resp: 693

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.7	116.5
141	33.8	26.6	39.8



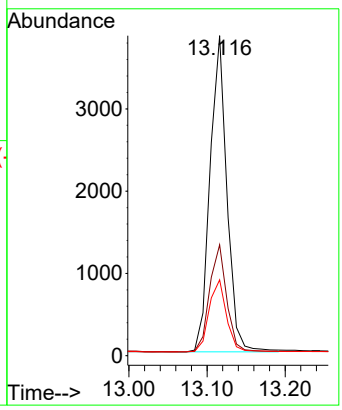


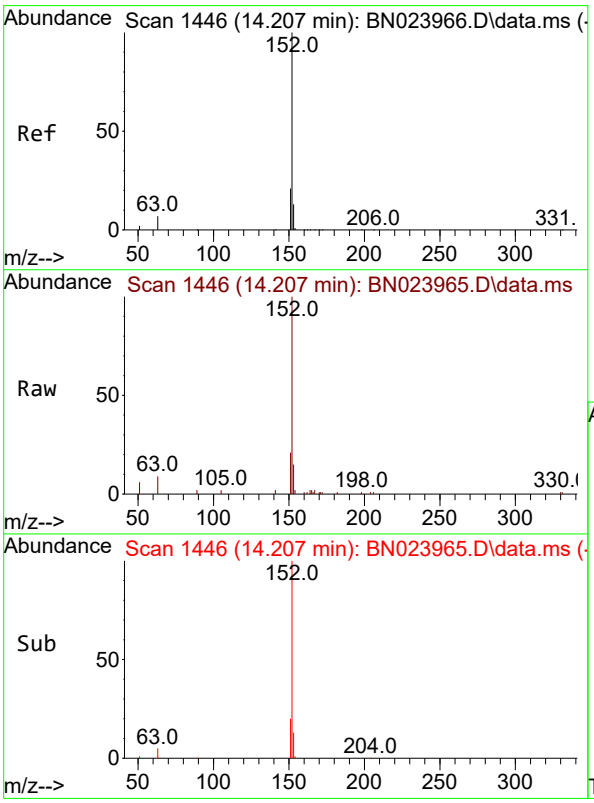
#15
2-Fluorobiphenyl
Concen: 0.193 ng
RT: 13.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 5778

Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.4	41.2
170	23.7	18.2	27.4

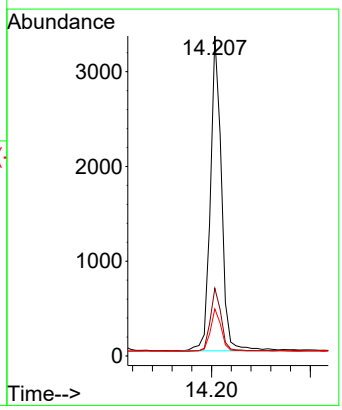


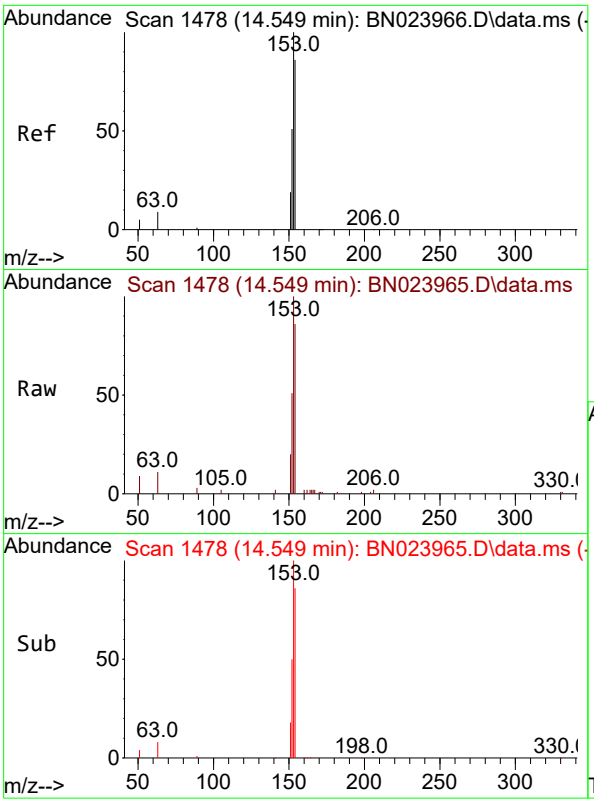


#16
Acenaphthylene
Concen: 0.176 ng
RT: 14.207 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:152 Resp: 5179

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.9	23.9
153	13.2	10.5	15.7



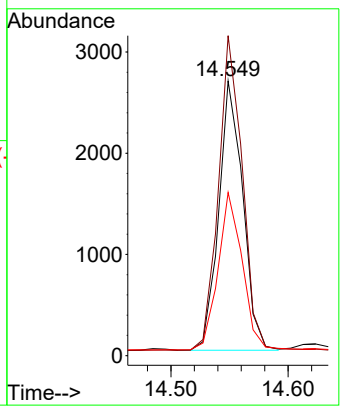


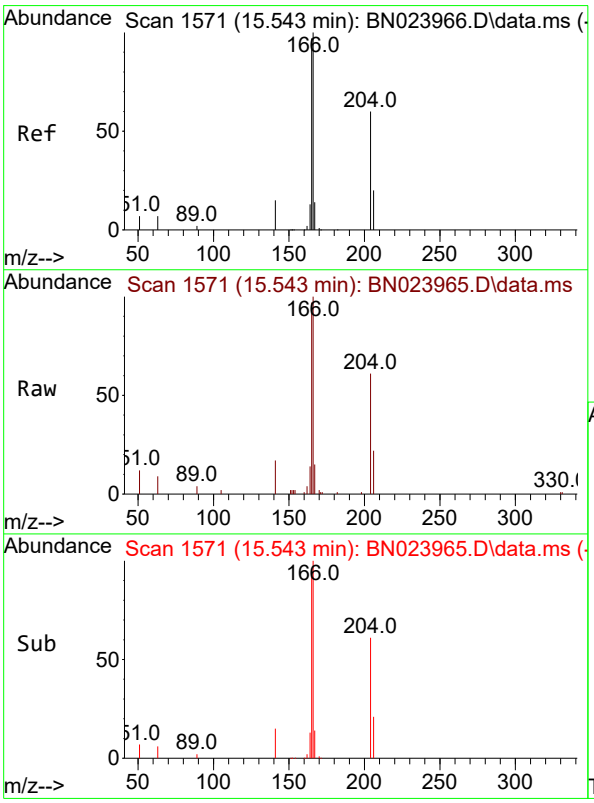
#17
Acenaphthene
Concen: 0.188 ng
RT: 14.549 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 3780

Ion	Ratio	Lower	Upper
154	100		
153	117.1	92.6	139.0
152	59.7	46.5	69.7

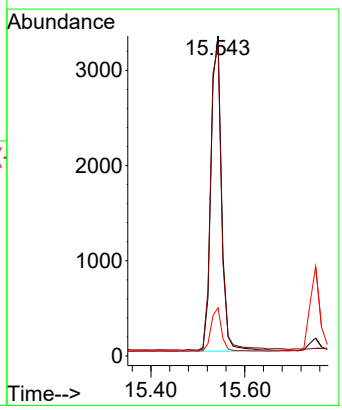


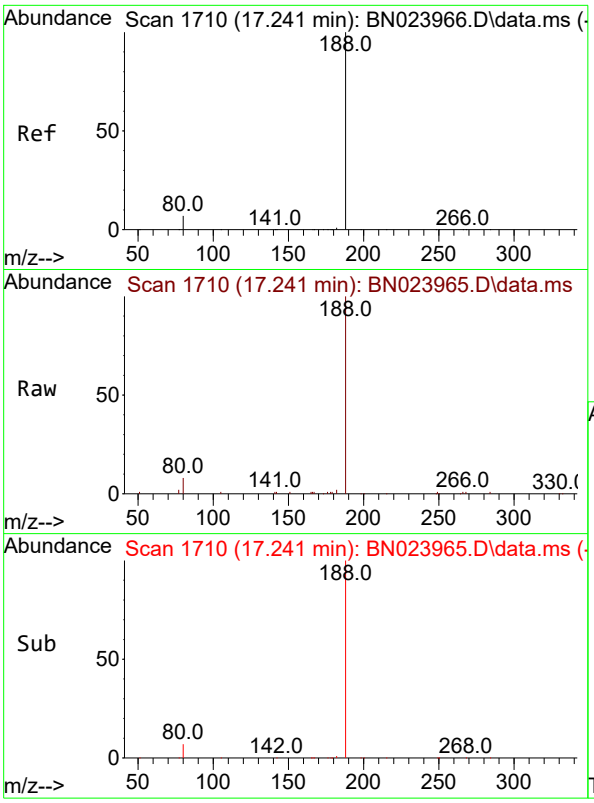


#18
Fluorene
Concen: 0.192 ng
RT: 15.543 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:166 Resp: 5223

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.3	118.9
167	13.7	11.0	16.6



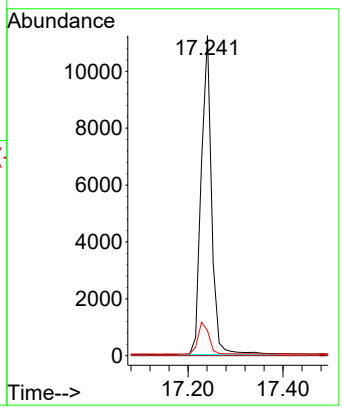


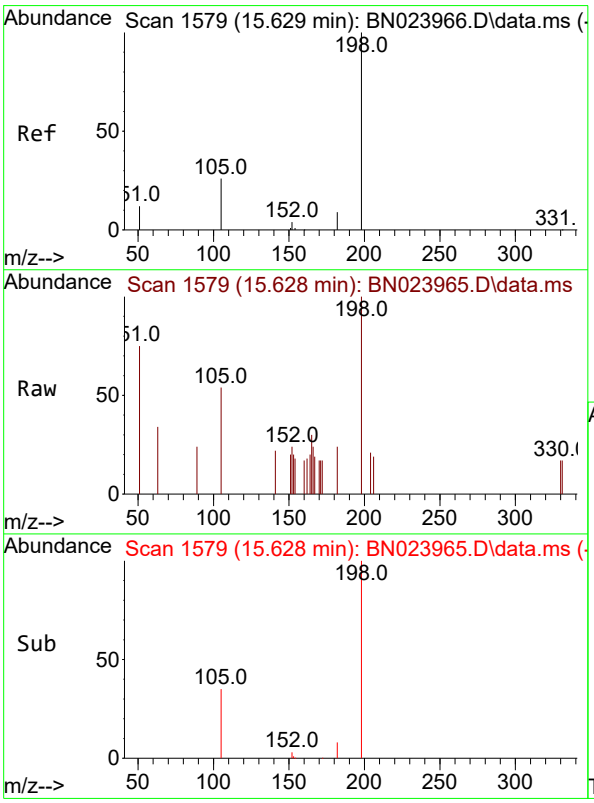
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.241 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 16994

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	6.1	9.1

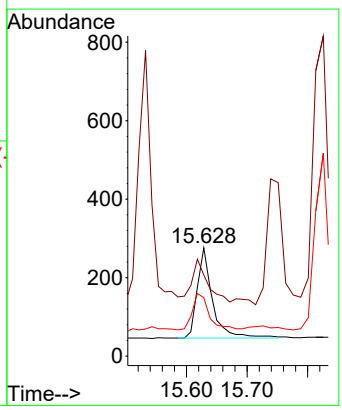


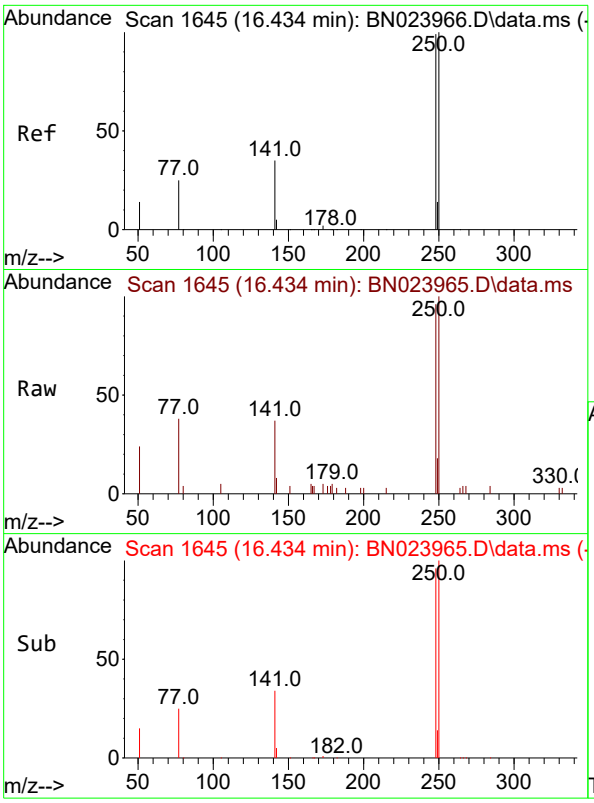


#20
4,6-Dinitro-2-methylphenol
Concen: 0.137 ng
RT: 15.628 min Scan# 1579
Delta R.T. -0.001 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:198 Resp: 415

Ion	Ratio	Lower	Upper
198	100		
51	75.0	36.8	55.2#
105	54.0	28.8	43.2#



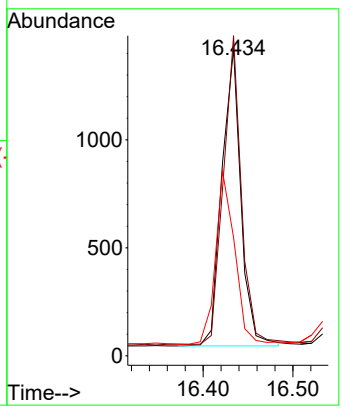


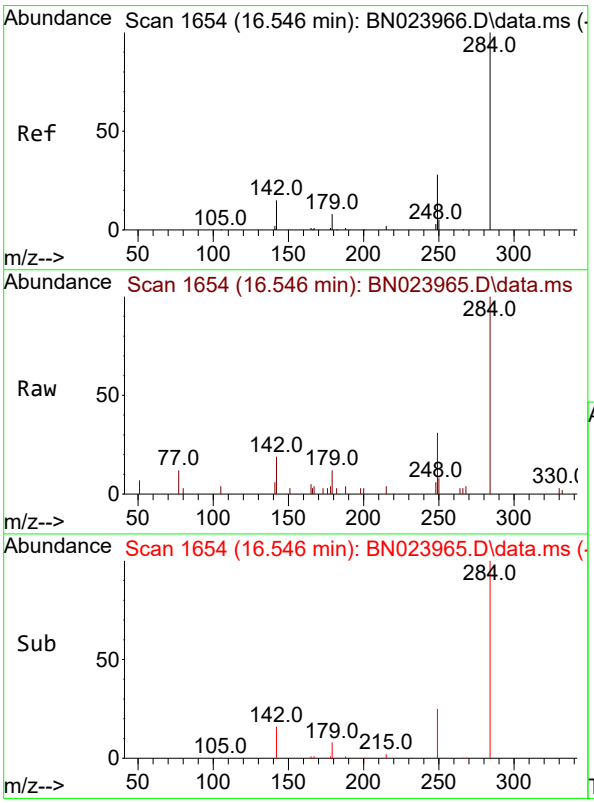
#21
4-Bromophenyl-phenylether
Concen: 0.184 ng
RT: 16.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2030

Ion	Ratio	Lower	Upper
248	100		
250	104.2	80.8	121.2
141	38.5	29.2	43.8

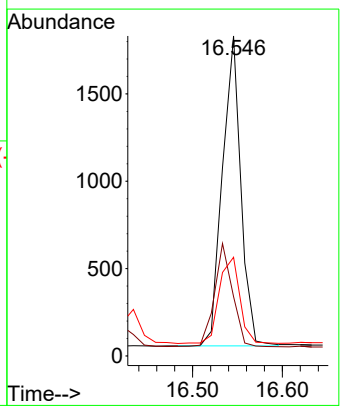


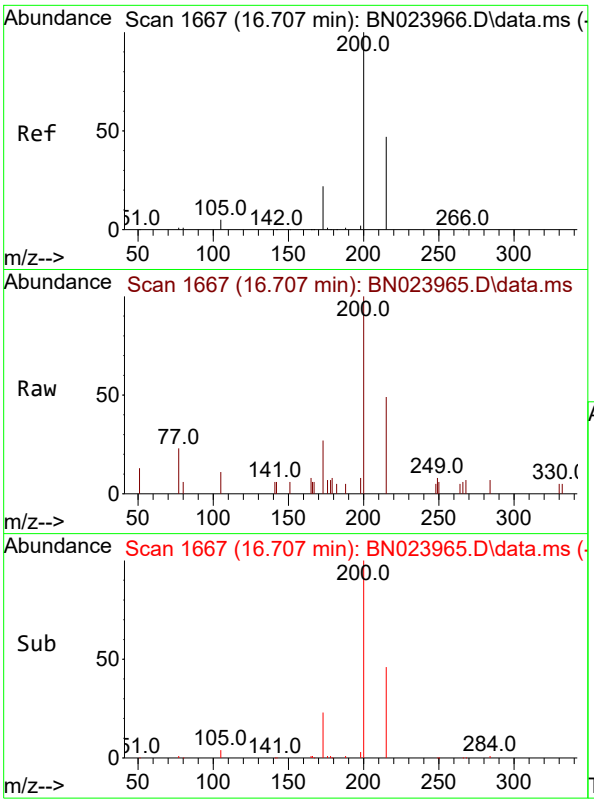


#22
Hexachlorobenzene
Concen: 0.191 ng
RT: 16.546 min Scan# 1654
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:284 Resp: 2534

Ion	Ratio	Lower	Upper
284	100		
142	32.6	26.2	39.2
249	31.3	25.0	37.4



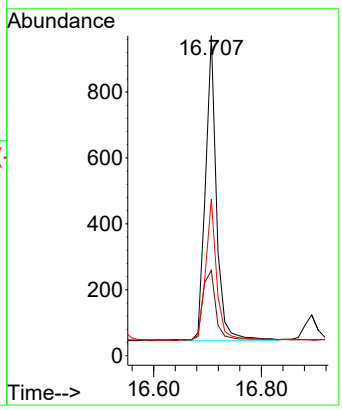


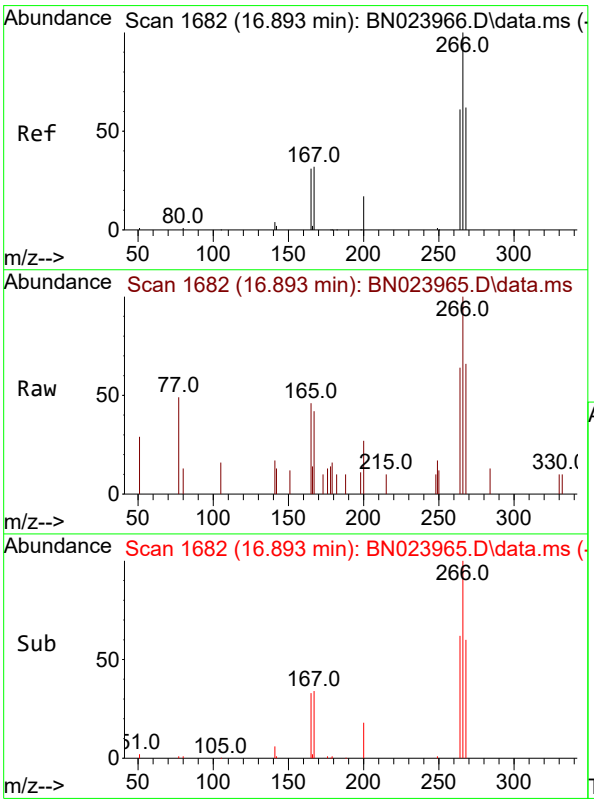
#23
Atrazine
Concen: 0.182 ng
RT: 16.707 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1317

Ion	Ratio	Lower	Upper
200	100		
173	26.7	19.5	29.3
215	48.9	38.6	58.0

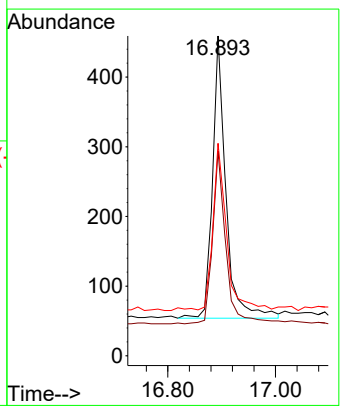


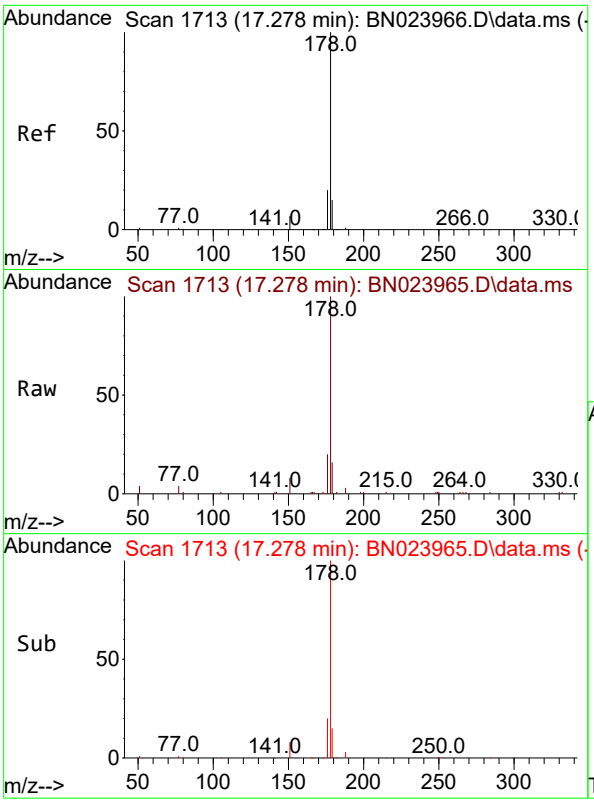


#24
Pentachlorophenol
Concen: 0.137 ng
RT: 16.893 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:266 Resp: 696

Ion	Ratio	Lower	Upper
266	100		
264	61.4	47.6	71.4
268	59.6	47.5	71.3



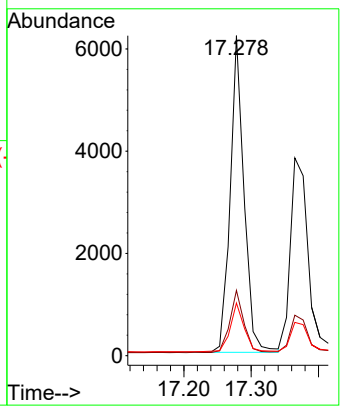


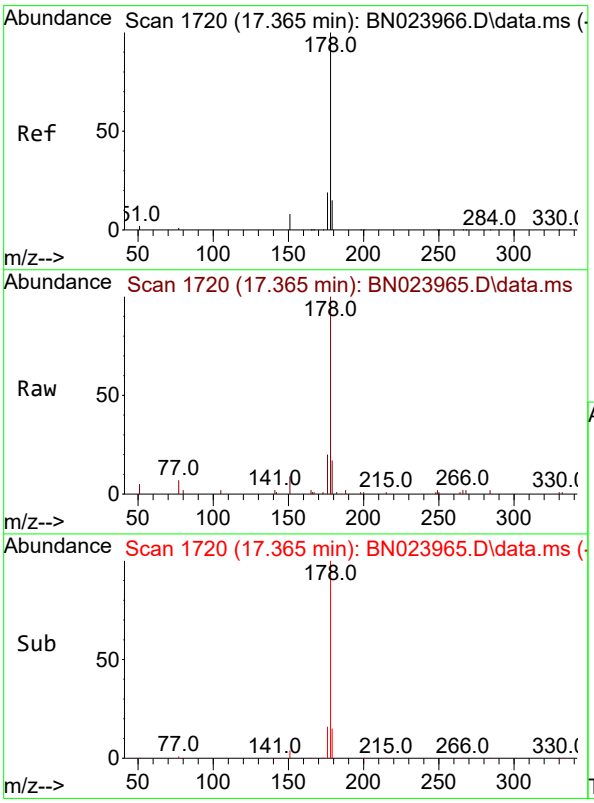
#25
Phenanthrene
Concen: 0.189 ng
RT: 17.278 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 8851

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.6	23.4
179	15.5	12.6	19.0

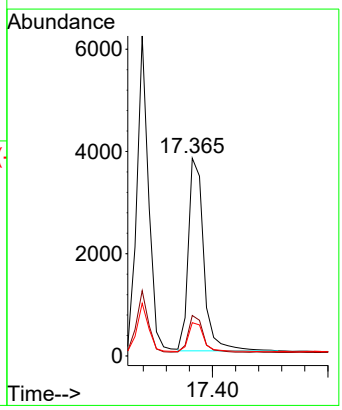


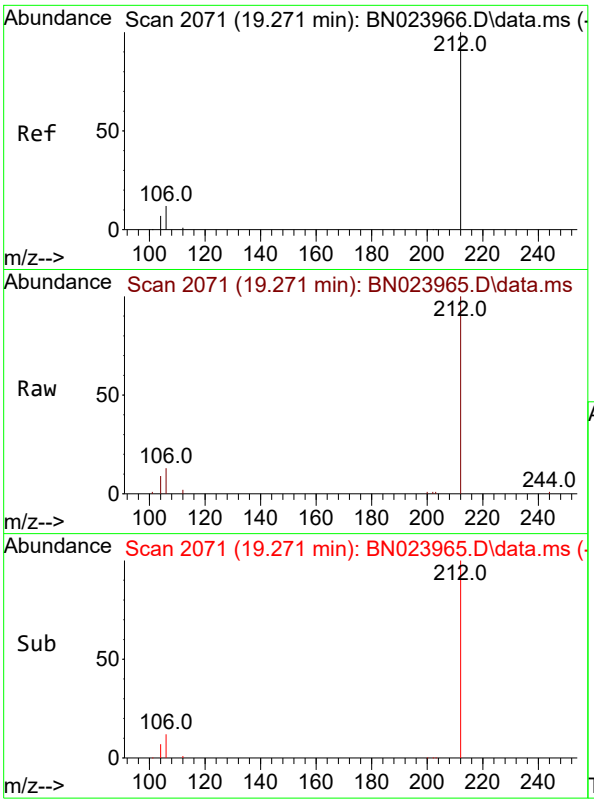


#26
Anthracene
Concen: 0.181 ng
RT: 17.365 min Scan# 1720
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:178 Resp: 6984

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.9	22.3
179	15.5	12.2	18.4



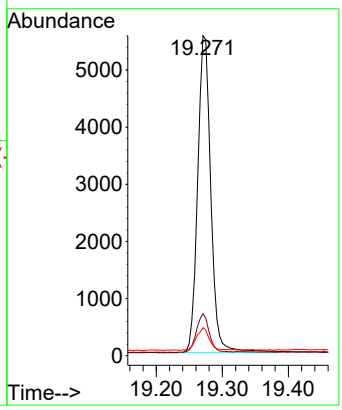


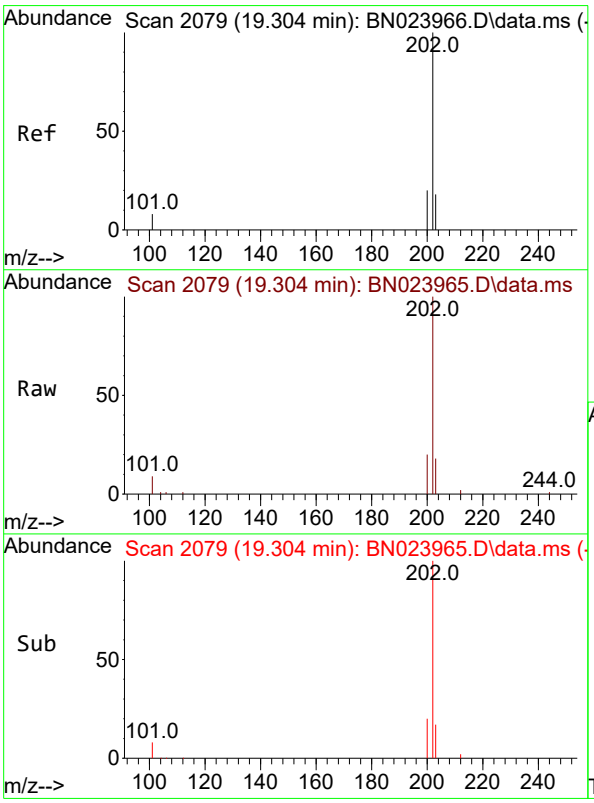
#27
Fluoranthene-d10
Concen: 0.187 ng
RT: 19.271 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 7706

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.9	5.7	8.5

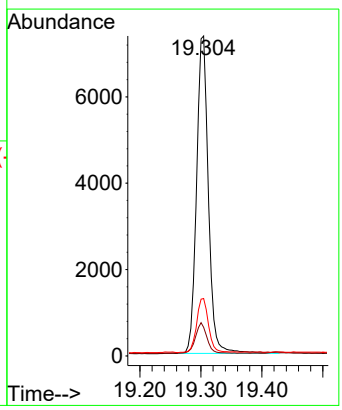


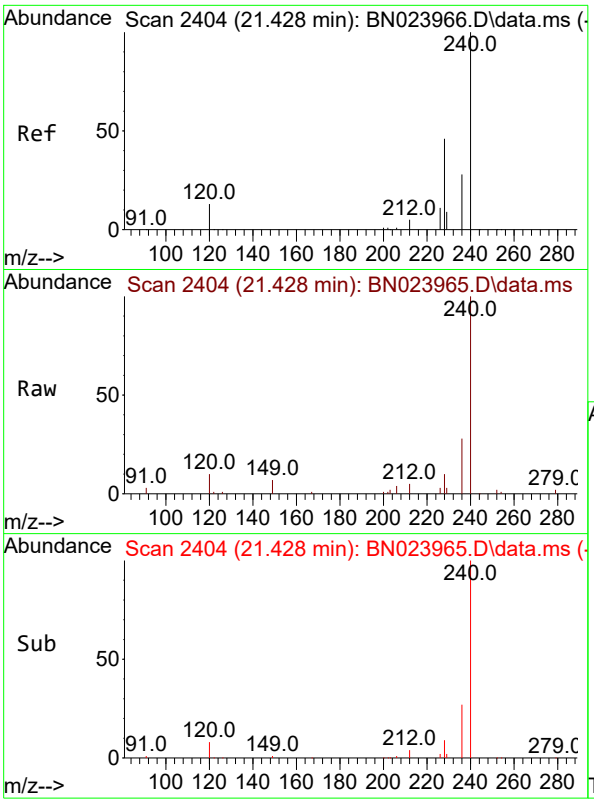


#28
Fluoranthene
Concen: 0.185 ng
RT: 19.304 min Scan# 2079
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:202 Resp: 9962

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.7	11.5
203	17.3	13.7	20.5



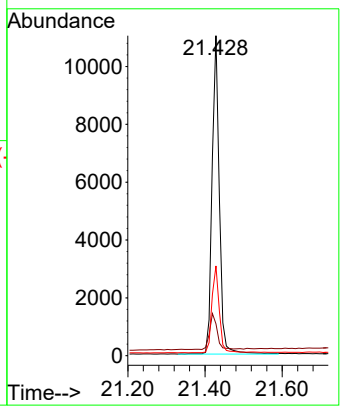


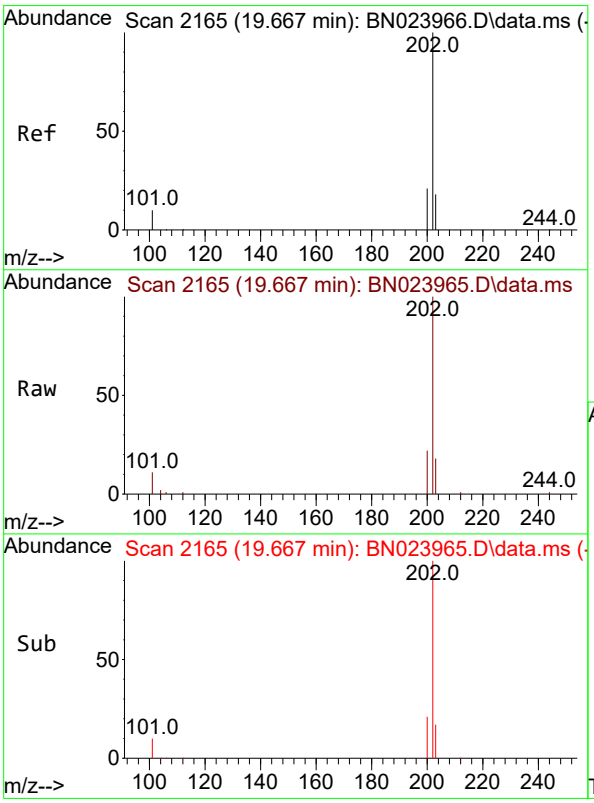
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.428 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 14293

Ion	Ratio	Lower	Upper
240	100		
120	10.0	11.4	17.0#
236	28.0	23.2	34.8

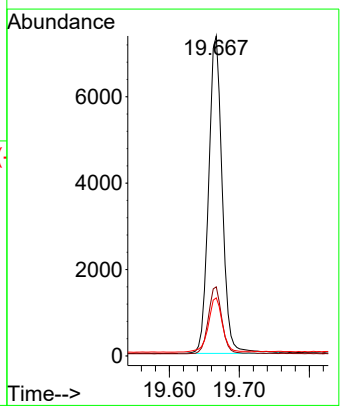


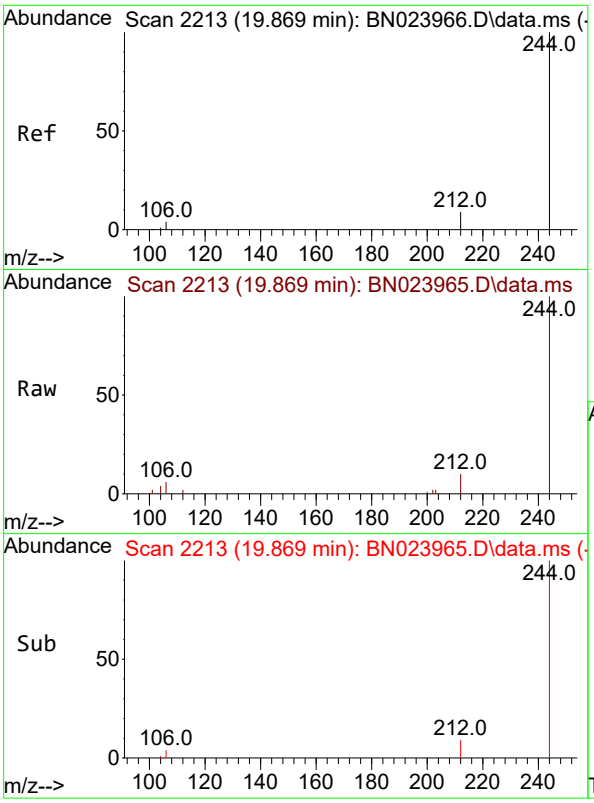


#30
Pyrene
Concen: 0.201 ng
RT: 19.667 min Scan# 2165
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:202 Resp: 9950

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.6	14.4	21.6



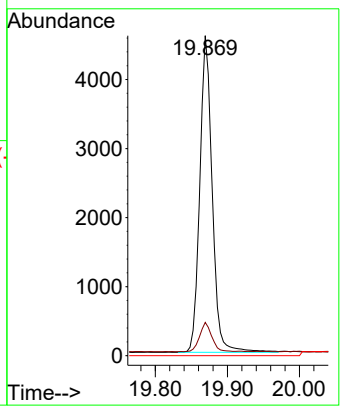


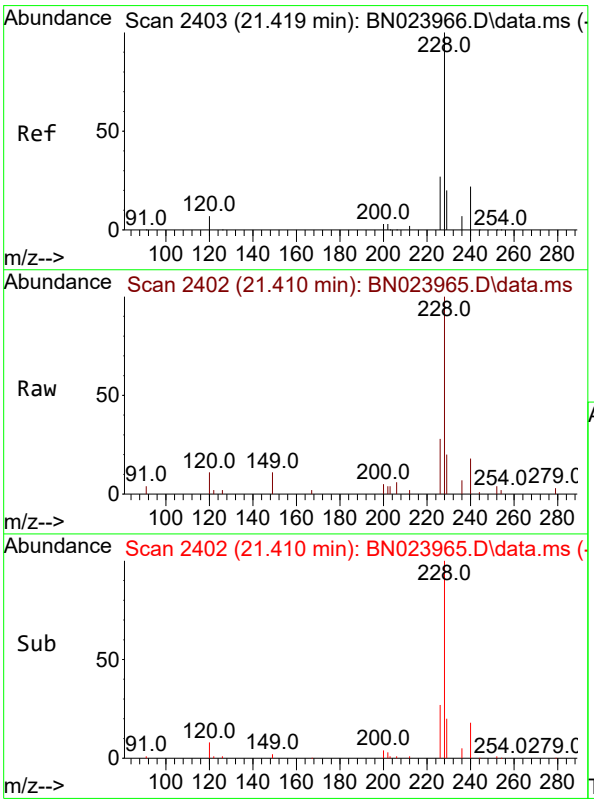
#31
Terphenyl-d14
Concen: 0.206 ng
RT: 19.869 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 5489

Ion	Ratio	Lower	Upper
244	100		
212	10.4	7.7	11.5
122	0.0	0.0	0.0

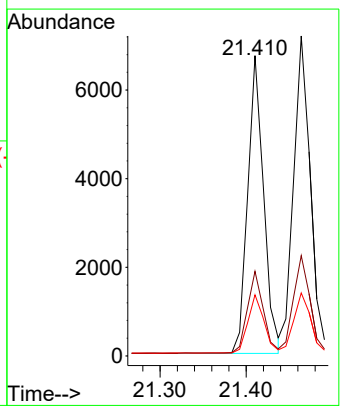


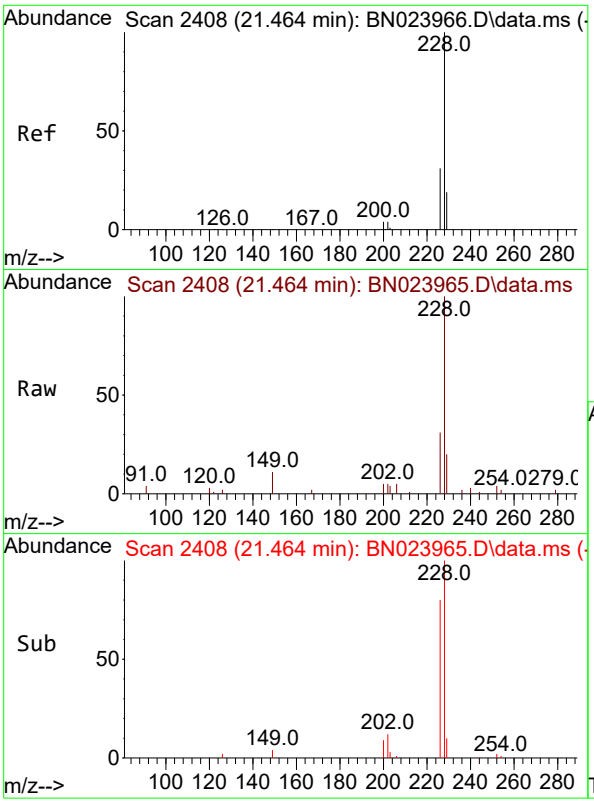


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.410 min Scan# 2402
Delta R.T. -0.009 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:228 Resp: 8635

Ion	Ratio	Lower	Upper
228	100		
226	28.2	21.8	32.8
229	20.4	15.9	23.9



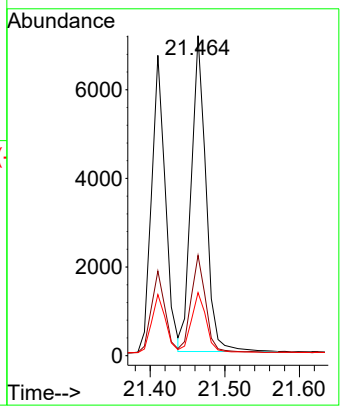


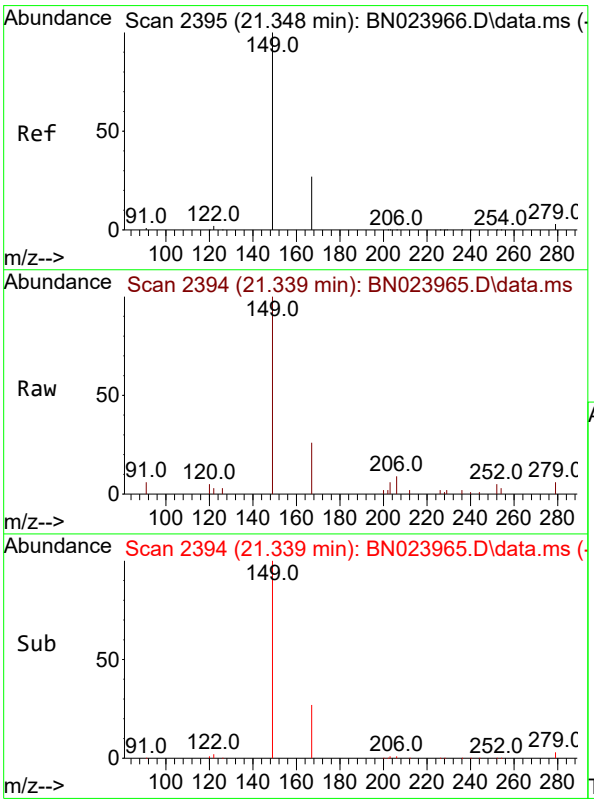
#33
Chrysene
Concen: 0.198 ng
RT: 21.464 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 9756

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.2	37.8
229	19.7	15.7	23.5

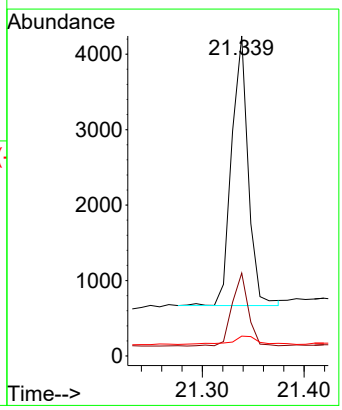


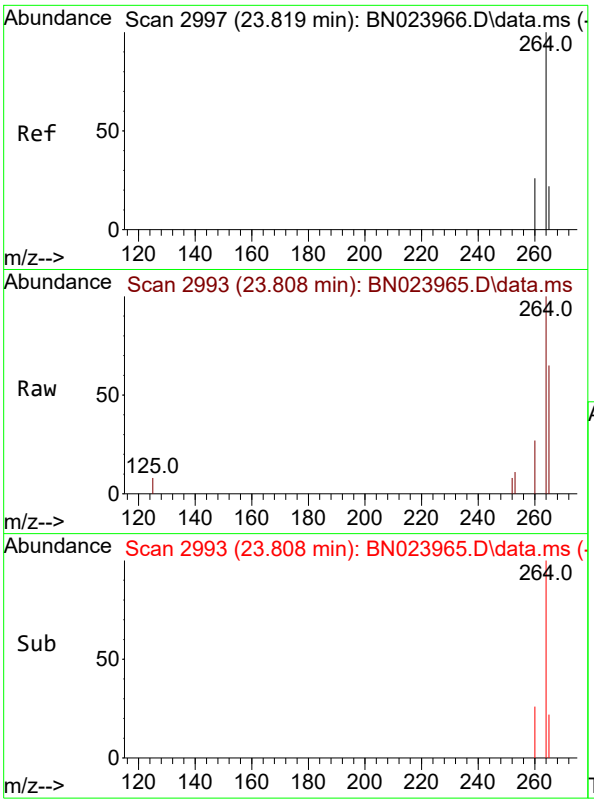


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.194 ng
RT: 21.339 min Scan# 2394
Delta R.T. -0.009 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:149 Resp: 4058

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.1	31.7
279	5.0	3.1	4.7#



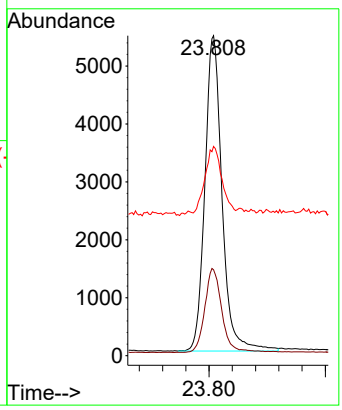


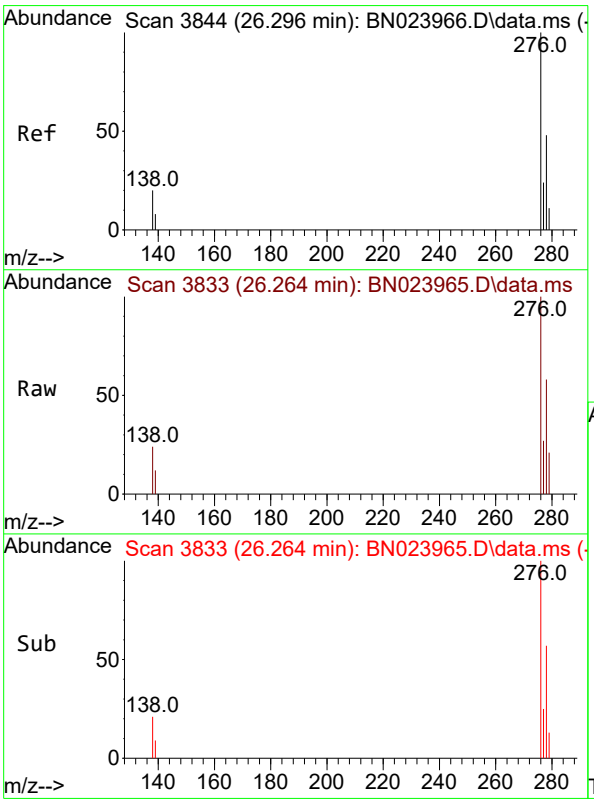
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.808 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11143

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.0
265	65.4	41.4	62.0#

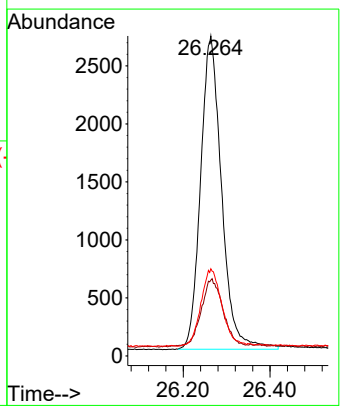


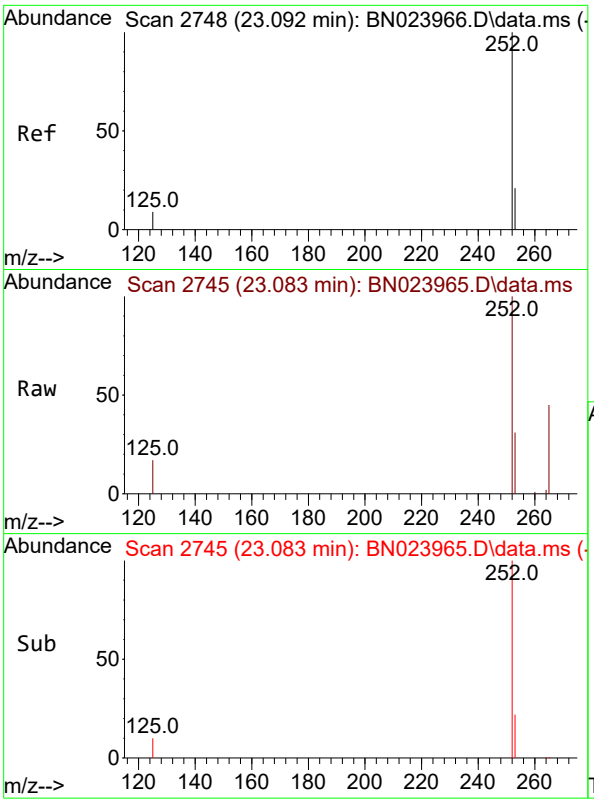


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.179 ng
RT: 26.264 min Scan# 3833
Delta R.T. -0.032 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:276 Resp: 9064

Ion	Ratio	Lower	Upper
276	100		
138	21.6	18.0	27.0
277	24.6	19.9	29.9



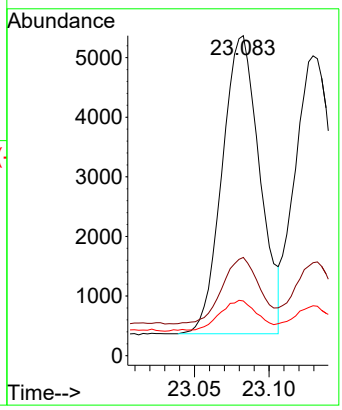


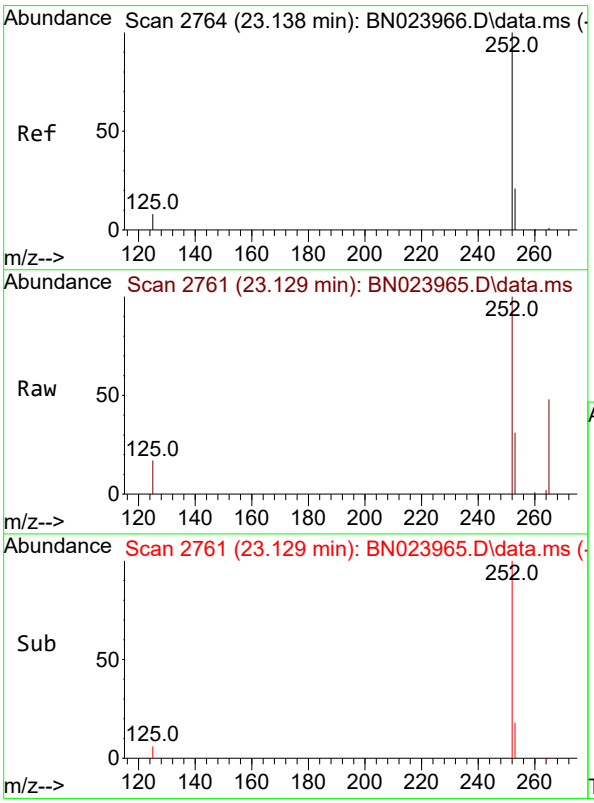
#37
Benzo(b)fluoranthene
Concen: 0.194 ng
RT: 23.083 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 8760

Ion	Ratio	Lower	Upper
252	100		
253	30.7	19.8	29.6#
125	17.1	9.4	14.0#

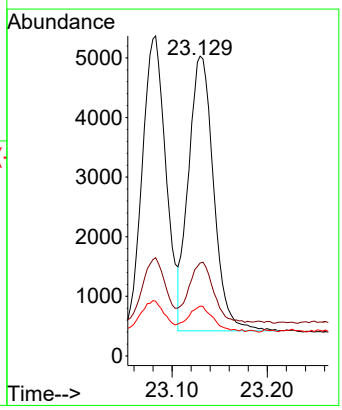


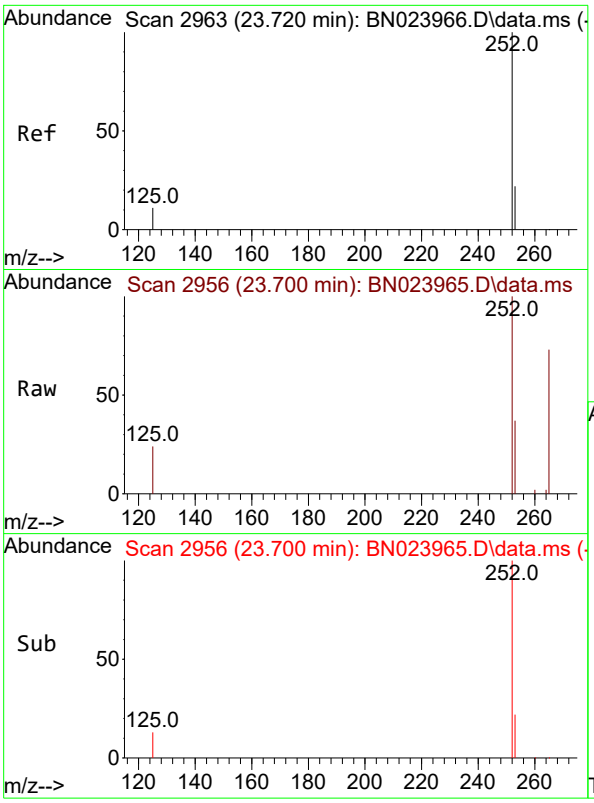


#38
Benzo(k)fluoranthene
Concen: 0.190 ng
RT: 23.129 min Scan# 2761
Delta R.T. -0.009 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:252 Resp: 8453

Ion	Ratio	Lower	Upper
252	100		
253	31.0	20.2	30.2#
125	16.7	9.0	13.4#



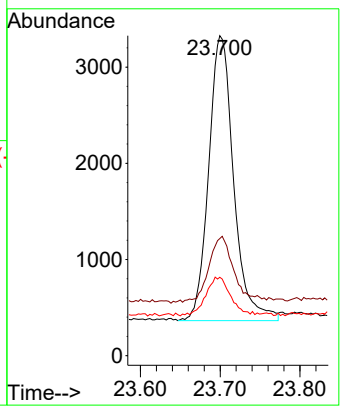


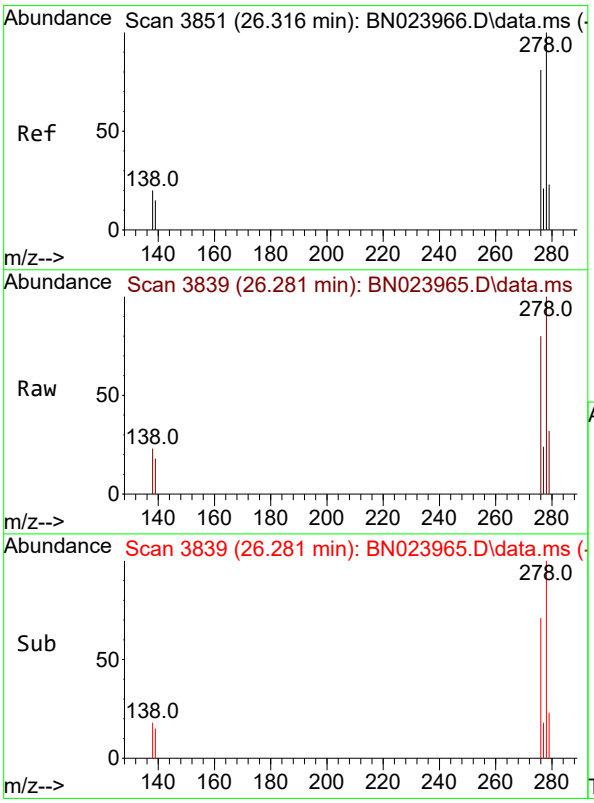
#39
Benzo(a)pyrene
Concen: 0.189 ng
RT: 23.700 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6455

Ion	Ratio	Lower	Upper
252	100		
253	36.6	21.9	32.9#
125	24.5	12.4	18.6#

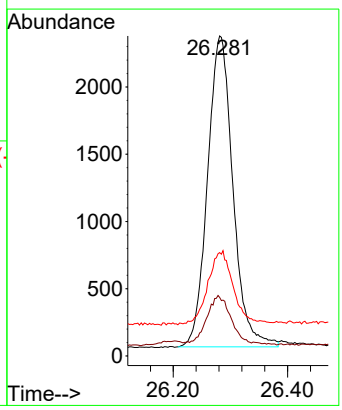


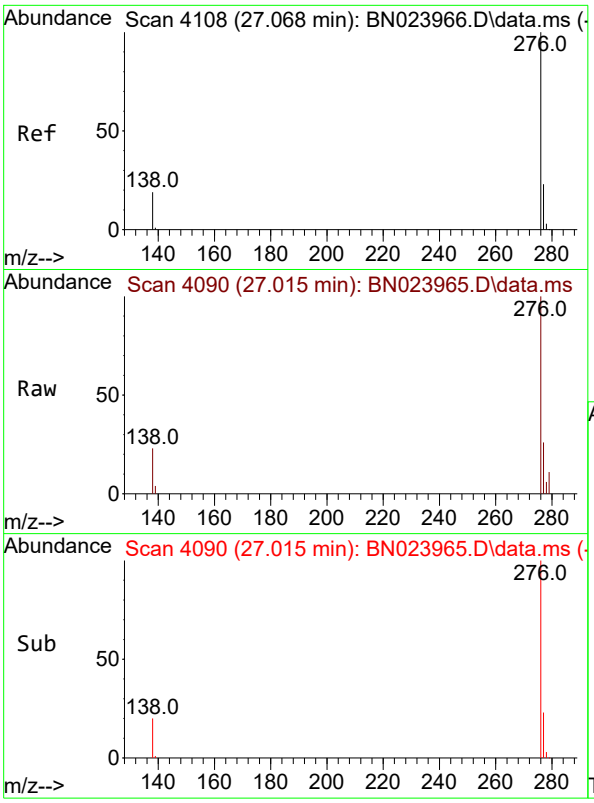


#40
Dibenzo(a,h)anthracene
Concen: 0.176 ng
RT: 26.281 min Scan# 3839
Delta R.T. -0.035 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Tgt Ion:278 Resp: 7143

Ion	Ratio	Lower	Upper
278	100		
139	18.3	13.1	19.7
279	32.3	21.7	32.5





#41
Benzo(g,h,i)perylene
Concen: 0.180 ng
RT: 27.015 min Scan# 4
Delta R.T. -0.053 min
Lab File: BN023965.D
Acq: 07 Feb 2023 11:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 7731

Ion	Ratio	Lower	Upper
276	100		
277	26.5	19.6	29.4
138	22.8	16.2	24.4