Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030722\
Data File : BN018856.D
Acq On : 07 Mar 2022 12:57
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 08 02:20:48 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN030322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 03 00:44:34 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.912	152	3768	0.400	ng		0.00
7) Naphthalene-d8	10.712	136	11108	0.400	ng		#-0.01
13) Acenaphthene-d10	14.538	164	7343	0.400	ng		0.00
19) Phenanthrene-d10	17.277	188	17382	0.400	ng		0.00
29) Chrysene-d12	21.458	240	18836	0.400	ng		0.00
35) Perylene-d12	23.849	264	17144	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.464	112	4012	0.487	ng		0.00
5) Phenol-d6	7.067	99	5003	0.506	ng		0.00
8) Nitrobenzene-d5	9.068	82	3432	0.424	ng		0.00
11) 2-Methylnaphthalene-d10	12.303	152	7726	0.427	ng		0.00
14) 2,4,6-Tribromophenol	16.026	330	1524	0.450	ng		0.00
15) 2-Fluorobiphenyl	13.170	172	11032	0.350	ng		0.00
27) Fluoranthene-d10	19.308	212	22232	0.434	ng		0.00
31) Terphenyl-d14	19.898	244	15646	0.389	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.312	88	1714	0.407	ng		98
3) n-Nitrosodimethylamine	3.629	42	1959	0.441	ng	#	92
6) bis(2-Chloroethyl)ether	7.327	93	4313	0.404	ng		99
9) Naphthalene	10.765	128	12296	0.386	ng		99
10) Hexachlorobutadiene	11.064	225	2491	0.344	ng	#	99
12) 2-Methylnaphthalene	12.374	142	8501	0.383	ng		97
16) Acenaphthylene	14.260	152	11744	0.351	ng		99
17) Acenaphthene	14.602	154	8995	0.378	ng		97
18) Fluorene	15.586	166	11821	0.382	ng		98
20) 4,6-Dinitro-2-methylph...	15.661	198	1119	0.465	ng		98
21) 4-Bromophenyl-phenylether	16.467	248	3853	0.333	ng	#	78
22) Hexachlorobenzene	16.600	284	4579	0.317	ng		99
23) Atrazine	16.733	200	3033	0.444	ng		95
24) Pentachlorophenol	16.928	266	2024	0.608	ng		99
25) Phenanthrene	17.318	178	21922	0.380	ng		100
26) Anthracene	17.410	178	17906	0.368	ng		99
28) Fluoranthene	19.337	202	27003	0.412	ng		100
30) Pyrene	19.695	202	28176	0.335	ng		100
32) Benzo(a)anthracene	21.440	228	27838	0.394	ng		100
33) Chrysene	21.494	228	30221	0.389	ng		100
34) Bis(2-ethylhexyl)phtha...	21.369	149	42444	0.971	ng		99
36) Indeno(1,2,3-cd)pyrene	26.325	276	31154	0.404	ng		98
37) Benzo(b)fluoranthene	23.121	252	32758	0.410	ng		97
38) Benzo(k)fluoranthene	23.165	252	30066	0.382	ng		99
39) Benzo(a)pyrene	23.744	252	25889	0.422	ng		96
40) Dibenzo(a,h)anthracene	26.349	278	24752	0.419	ng		98
41) Benzo(g,h,i)perylene	27.085	276	26001	0.410	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030722\
Data File : BN018856.D
Acq On : 07 Mar 2022 12:57
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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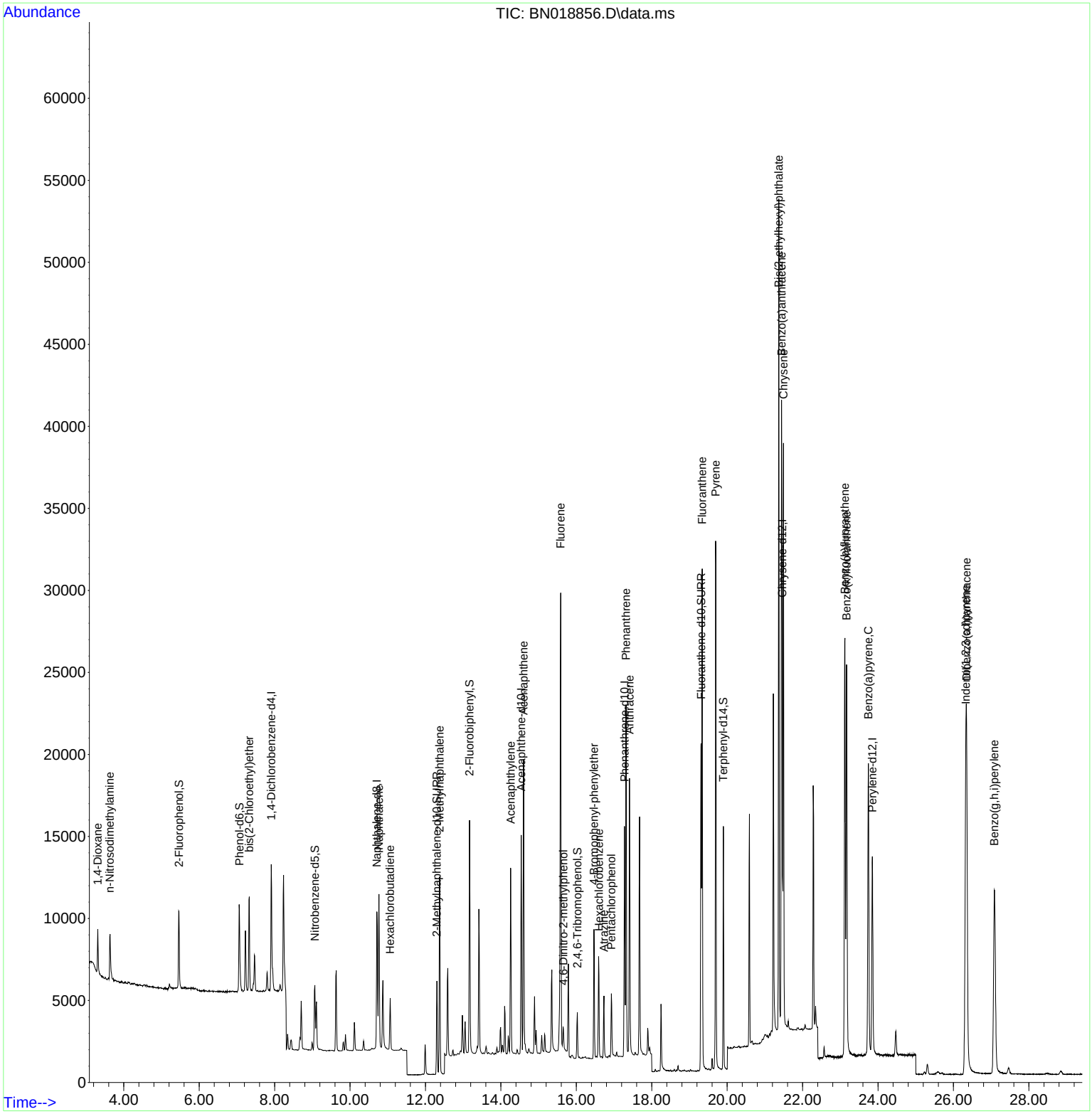
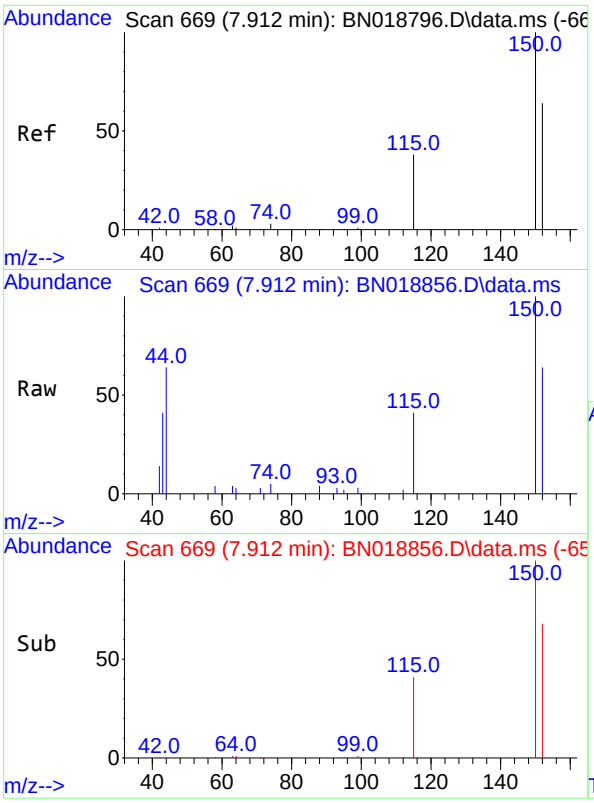
Quant Time: Mar 08 02:20:48 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN030322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 03 00:44:34 2022
Response via : Initial Calibration



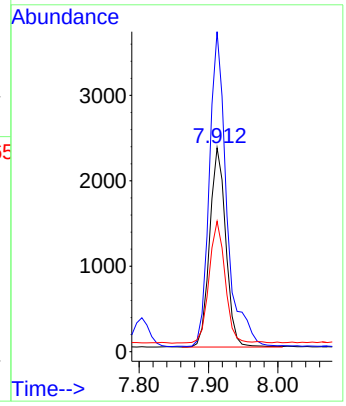


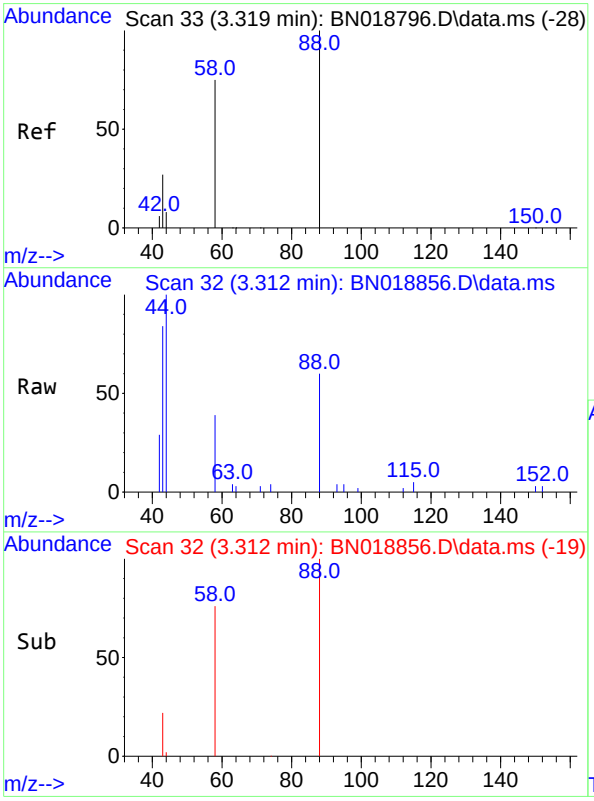
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.912 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3768

Ion	Ratio	Lower	Upper
152	100		
150	156.9	123.9	185.9
115	63.9	48.2	72.4

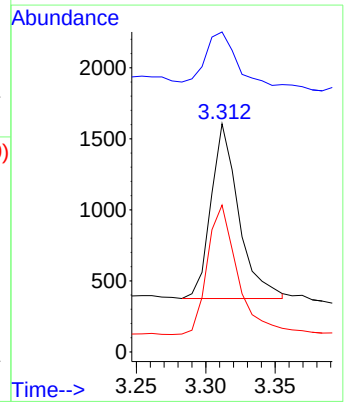


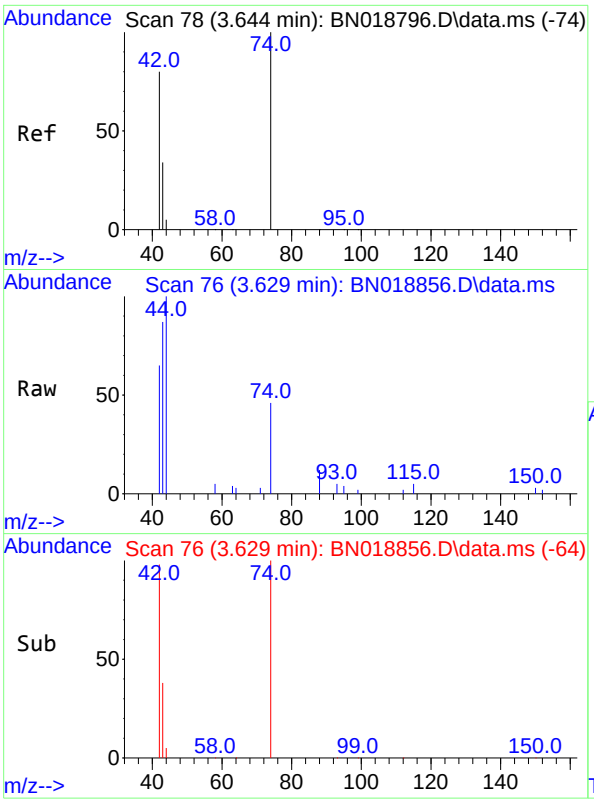


#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.312 min Scan# 32
Delta R.T. -0.007 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion: 88 Resp: 1714

Ion	Ratio	Lower	Upper
88	100		
43	33.0	24.6	37.0
58	80.5	65.4	98.2



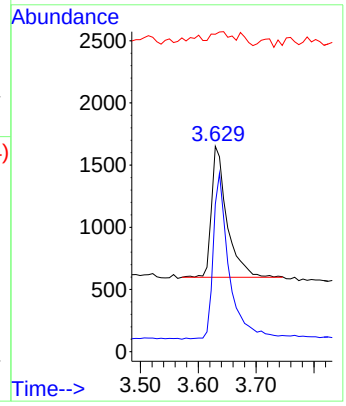


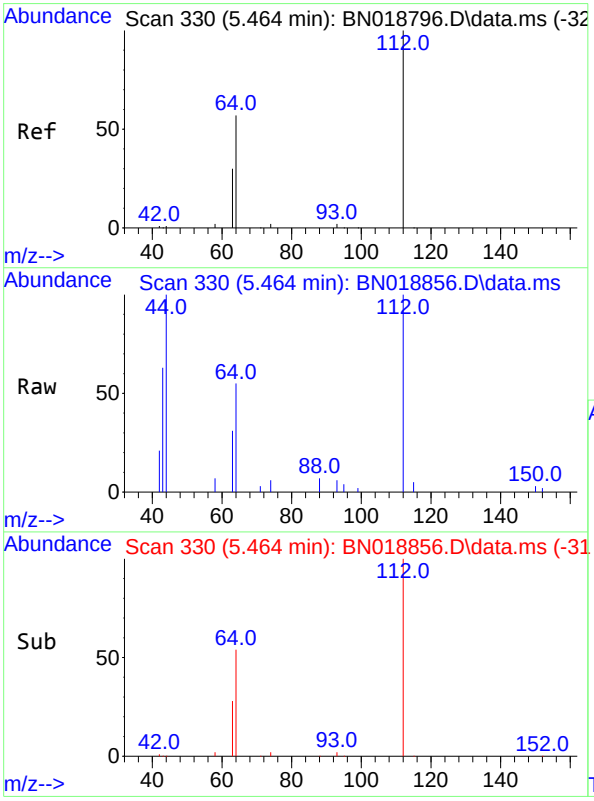
#3
n-Nitrosodimethylamine
Concen: 0.441 ng
RT: 3.629 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1959

Ion	Ratio	Lower	Upper
42	100		
74	130.7	96.9	145.3
44	11.2	7.3	10.9#

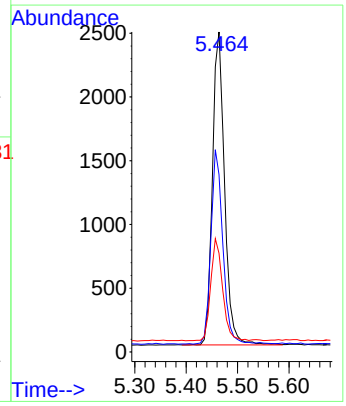


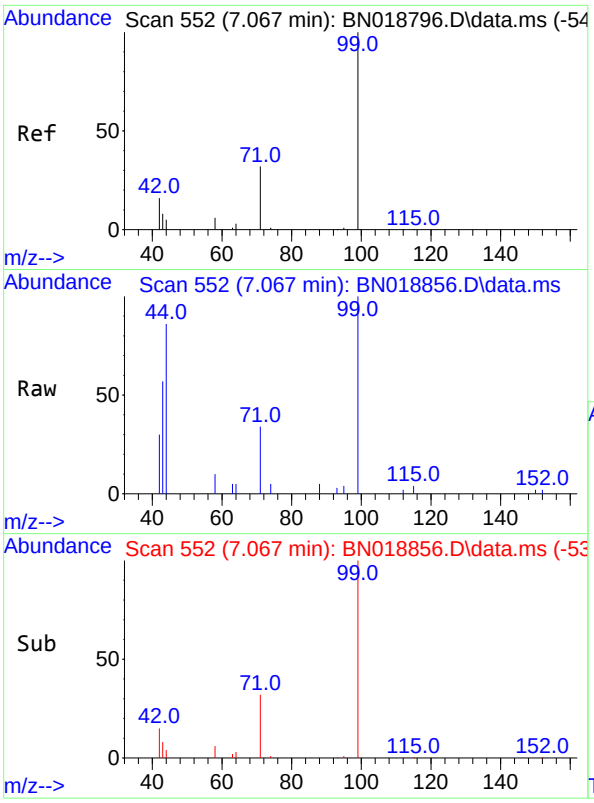


#4
2-Fluorophenol
Concen: 0.487 ng
RT: 5.464 min Scan# 330
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:112 Resp: 4012

Ion	Ratio	Lower	Upper
112	100		
64	61.0	47.8	71.8
63	31.9	25.7	38.5



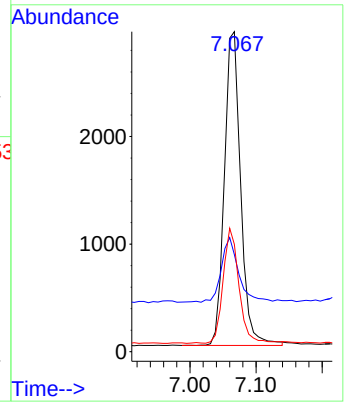


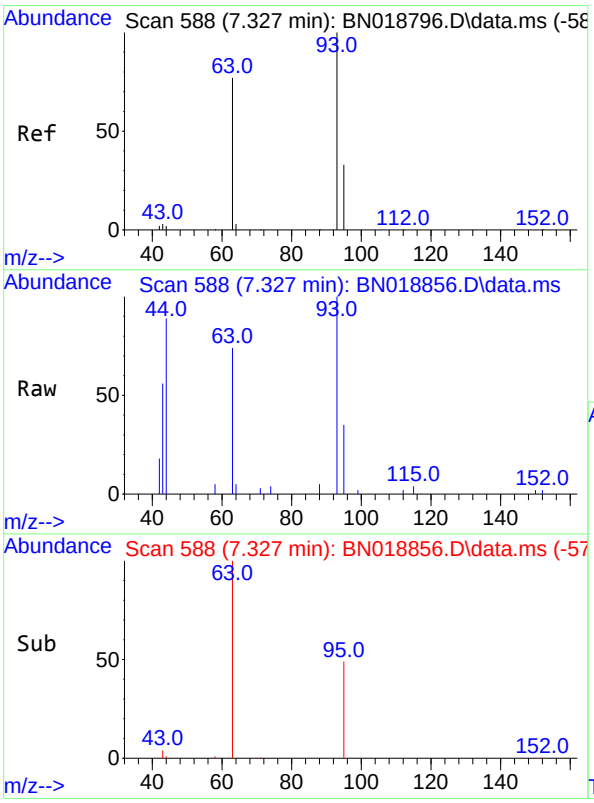
#5
Phenol-d6
Concen: 0.506 ng
RT: 7.067 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 5003

Ion	Ratio	Lower	Upper
99	100		
42	21.7	16.2	24.4
71	35.5	27.7	41.5

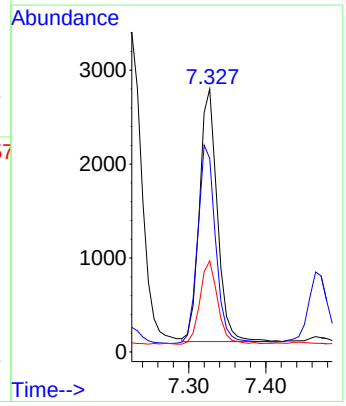


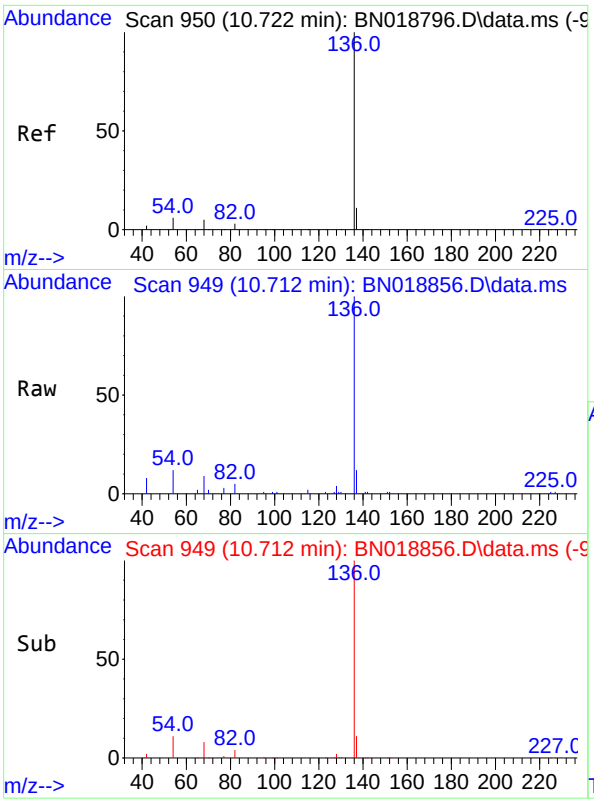


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.327 min Scan# 588
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion: 93 Resp: 4313

Ion	Ratio	Lower	Upper
93	100		
63	79.8	62.8	94.2
95	33.0	26.2	39.4



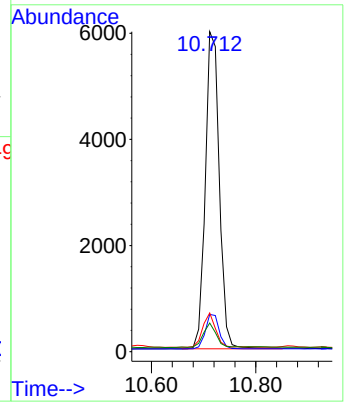


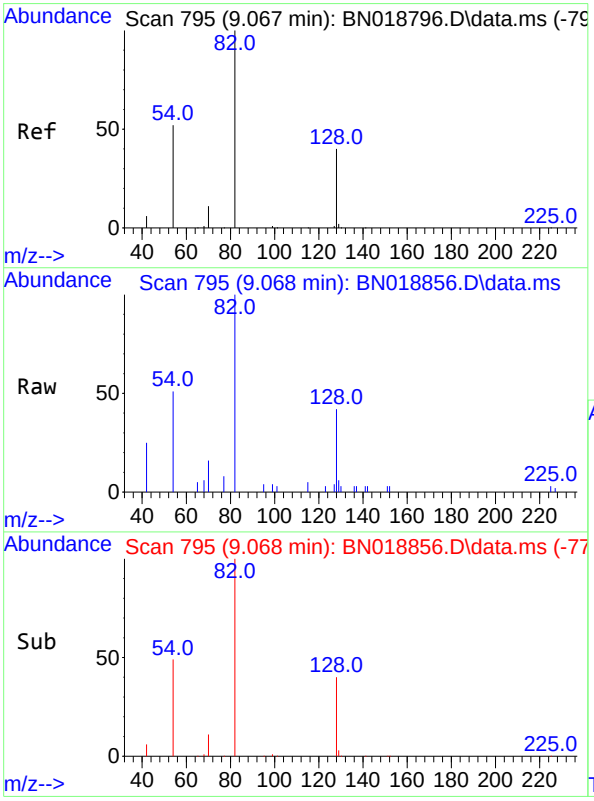
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.712 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 11108

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.0	13.4
54	12.1	5.8	8.6#
68	9.0	4.6	7.0#

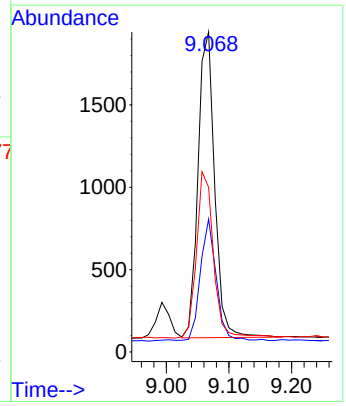


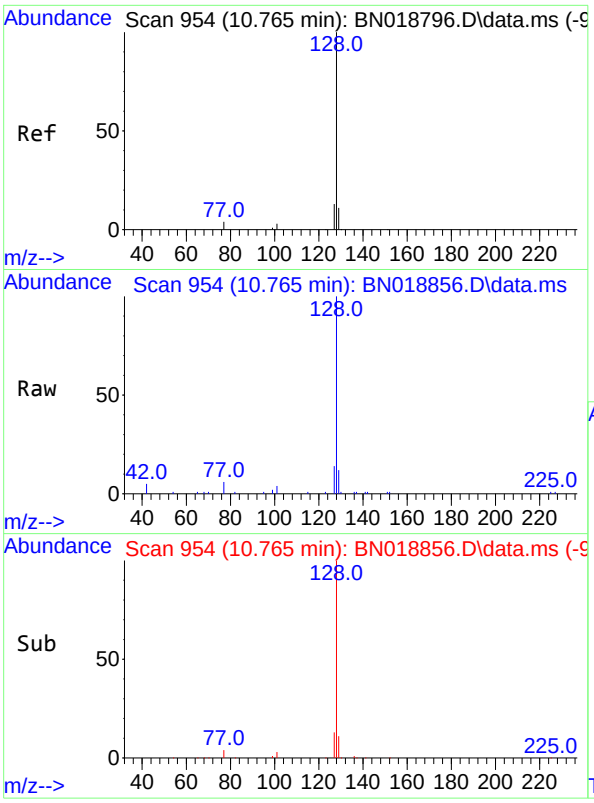


#8
Nitrobenzene-d5
Concen: 0.424 ng
RT: 9.068 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion: 82 Resp: 3432

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.0	49.6
54	51.5	42.5	63.7



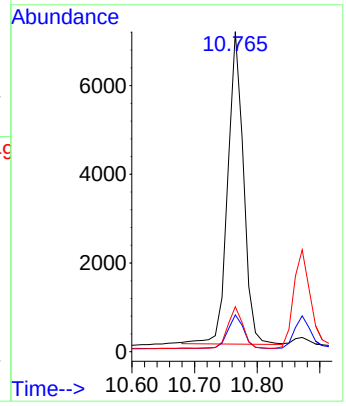


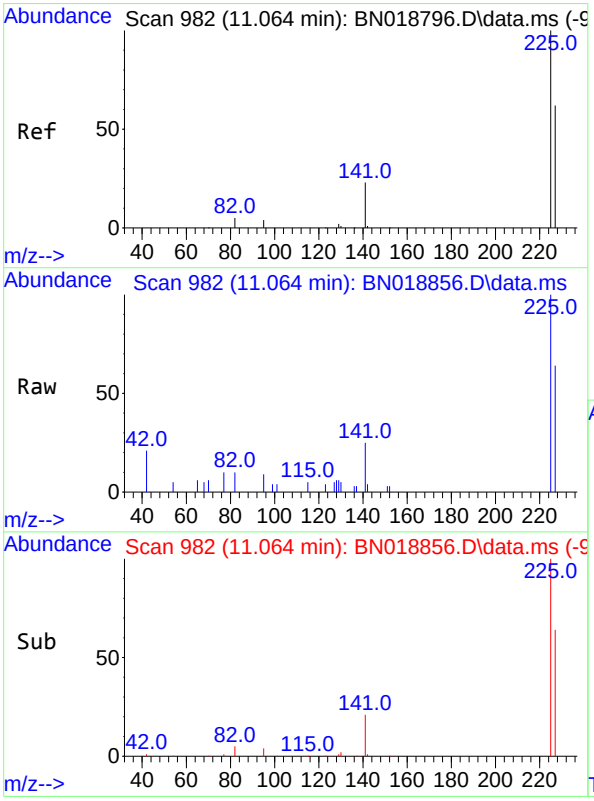
#9
Naphthalene
Concen: 0.386 ng
RT: 10.765 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 12296

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.4
127	14.1	10.7	16.1

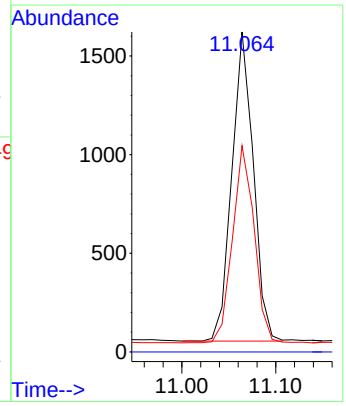


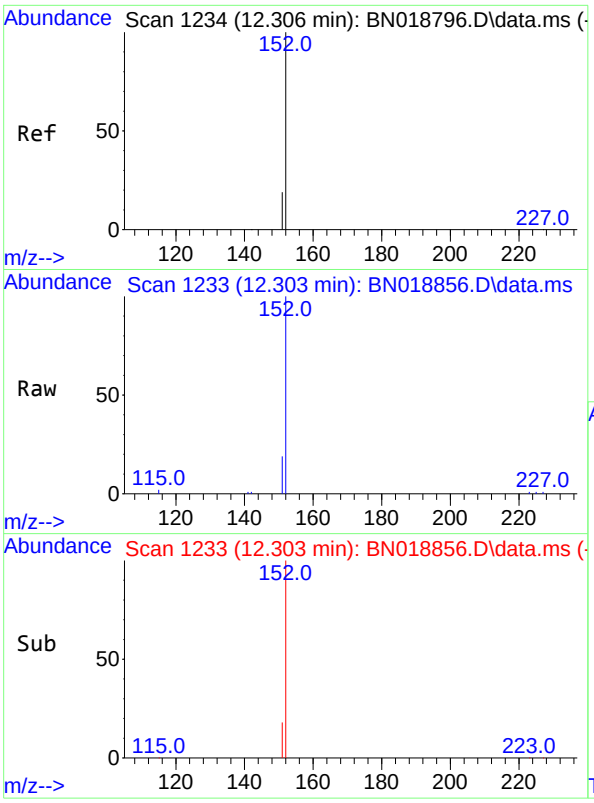


#10
Hexachlorobutadiene
Concen: 0.344 ng
RT: 11.064 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:225 Resp: 2491

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.0	76.6



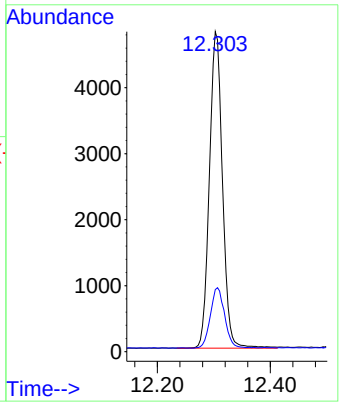


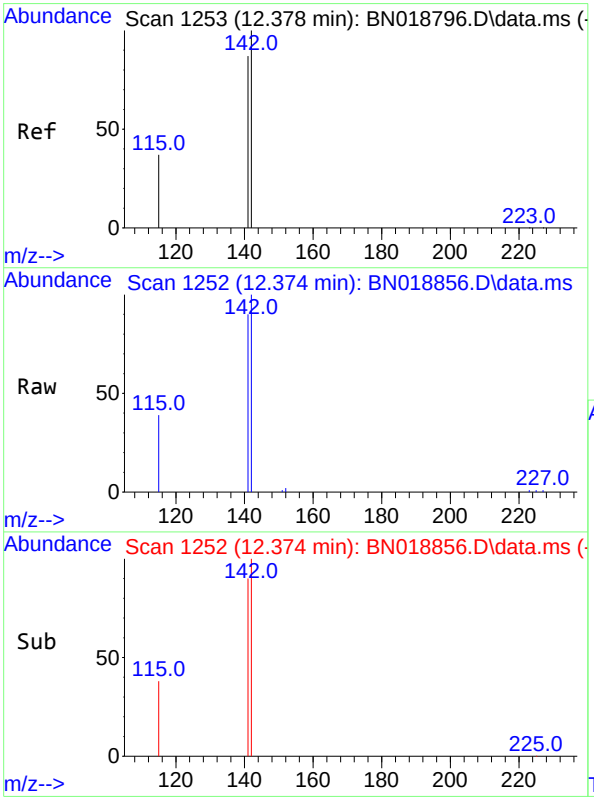
#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 12.303 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7726

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7

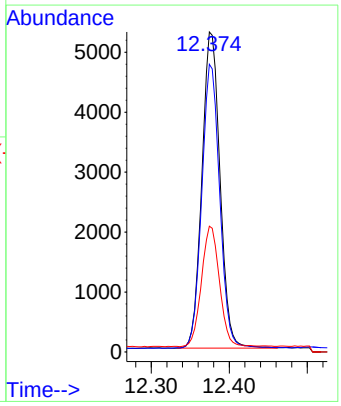


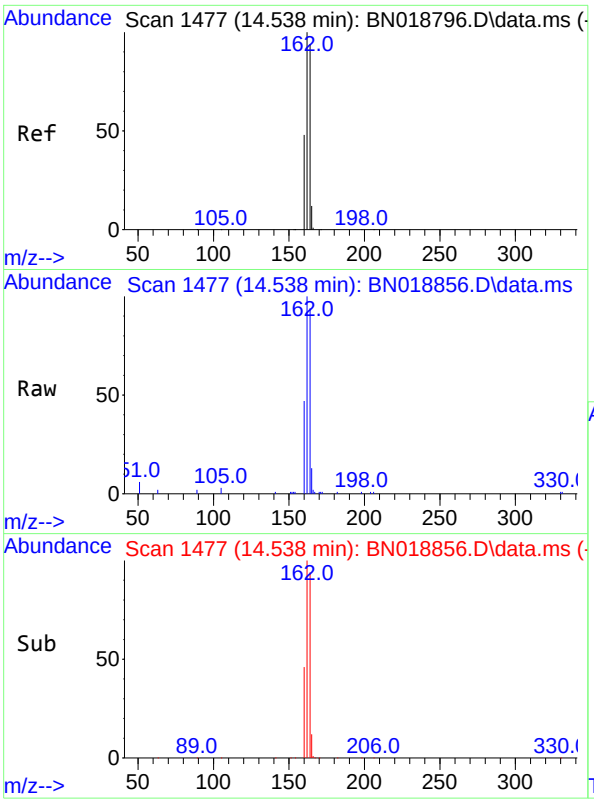


#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.374 min Scan# 1252
Delta R.T. -0.004 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:142 Resp: 8501

Ion	Ratio	Lower	Upper
142	100		
141	89.9	70.0	105.0
115	39.3	29.8	44.8



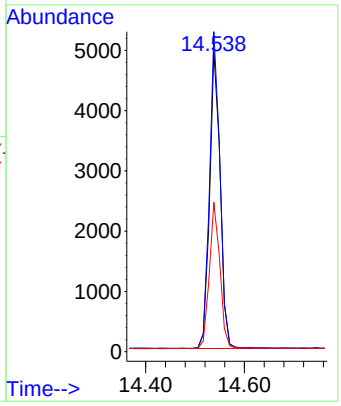


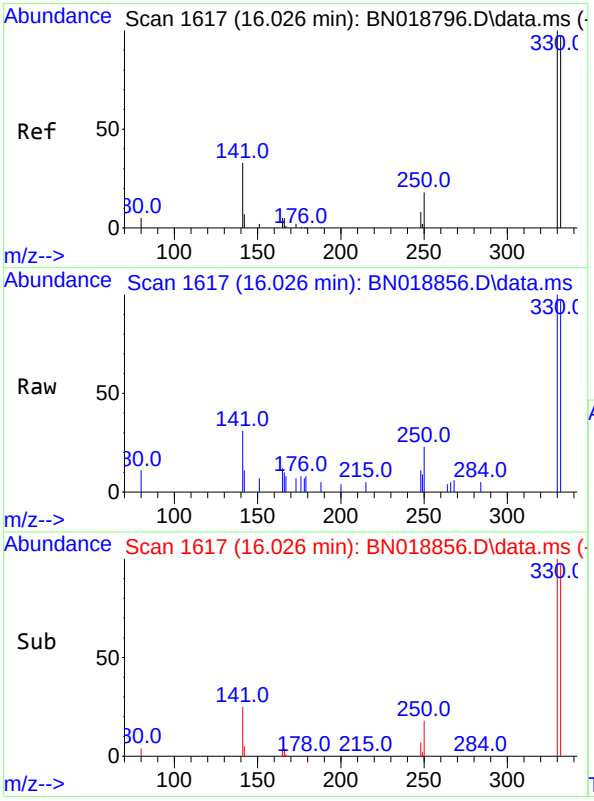
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.538 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 7343

Ion	Ratio	Lower	Upper
164	100		
162	106.6	85.2	127.8
160	49.7	41.5	62.3

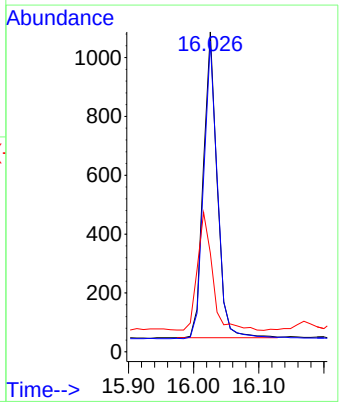


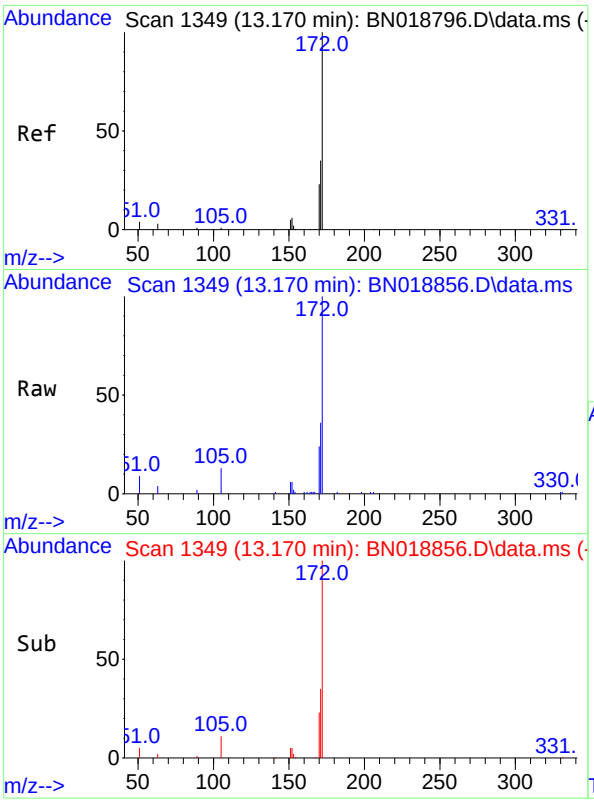


#14
2,4,6-Tribromophenol
Concen: 0.450 ng
RT: 16.026 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:330 Resp: 1524

Ion	Ratio	Lower	Upper
330	100		
332	98.1	76.8	115.2
141	41.7	32.2	48.2



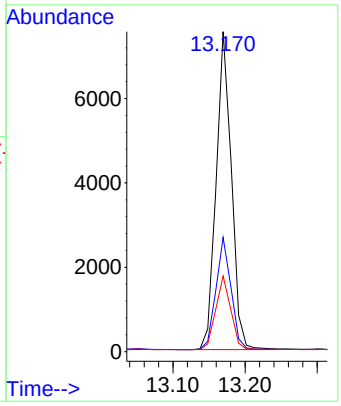


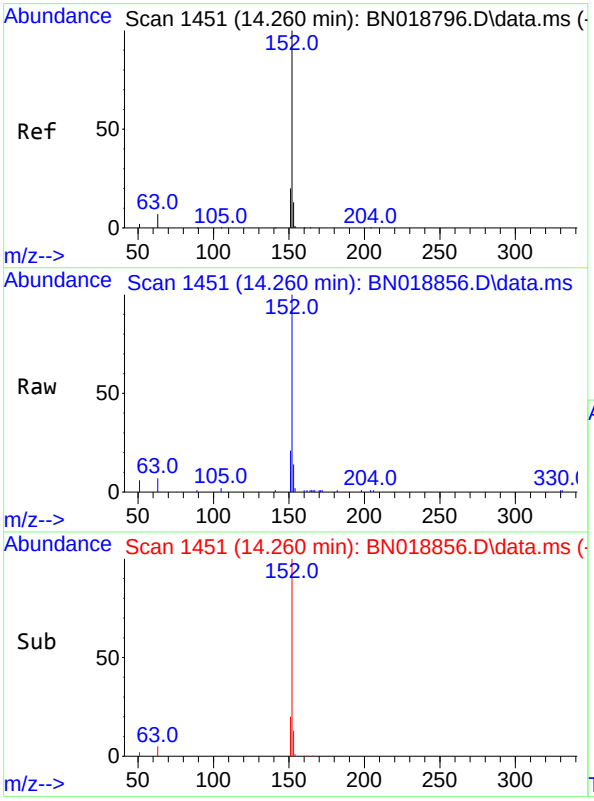
#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 11032

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	23.7	18.7	28.1

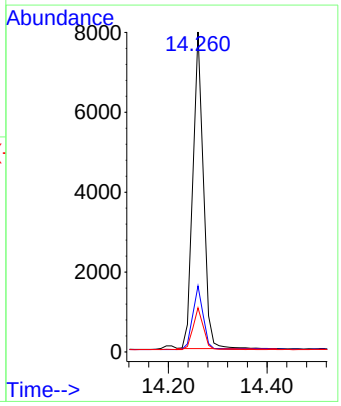


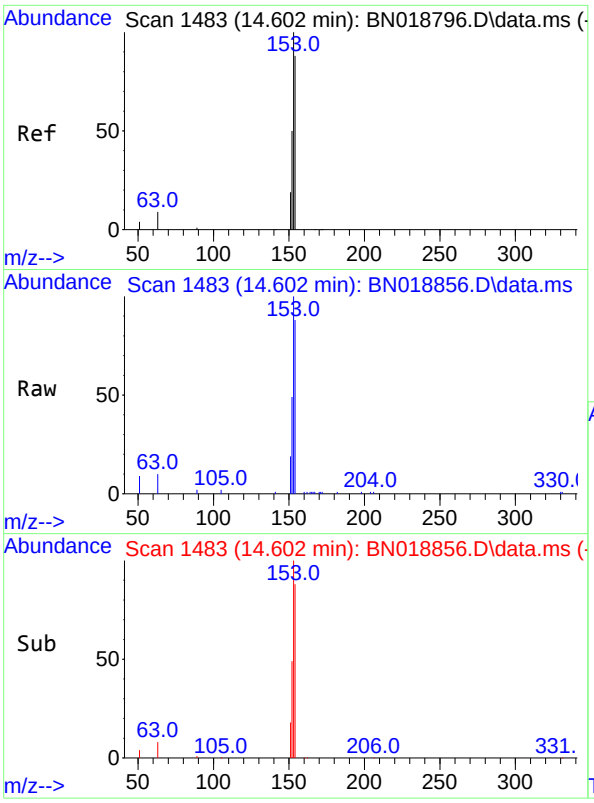


#16
Acenaphthylene
Concen: 0.351 ng
RT: 14.260 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:152 Resp: 11744

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.1	10.6	15.8



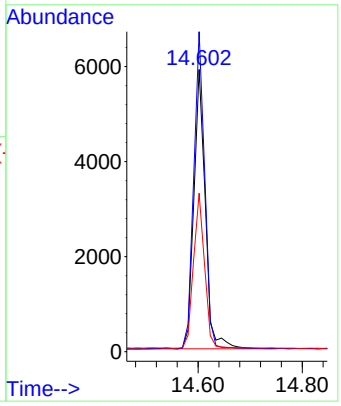


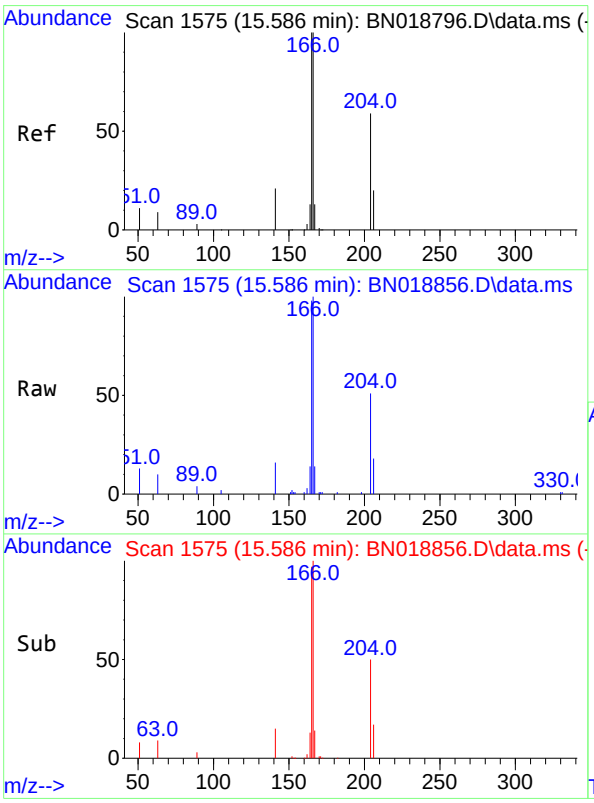
#17
Acenaphthene
Concen: 0.378 ng
RT: 14.602 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 8995

Ion	Ratio	Lower	Upper
154	100		
153	109.4	89.7	134.5
152	53.8	44.7	67.1

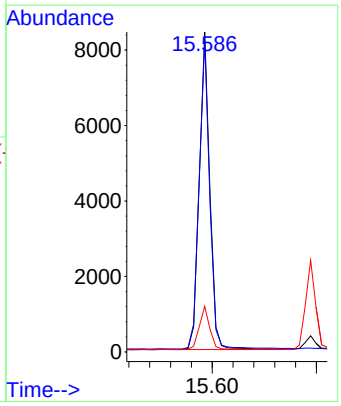


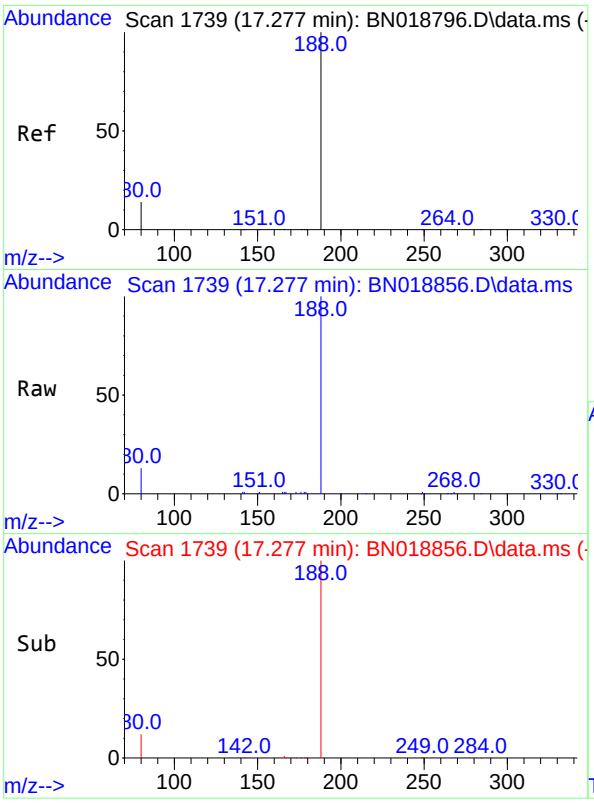


#18
Fluorene
Concen: 0.382 ng
RT: 15.586 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:166 Resp: 11821

Ion	Ratio	Lower	Upper
166	100		
165	97.4	79.2	118.8
167	13.7	10.7	16.1



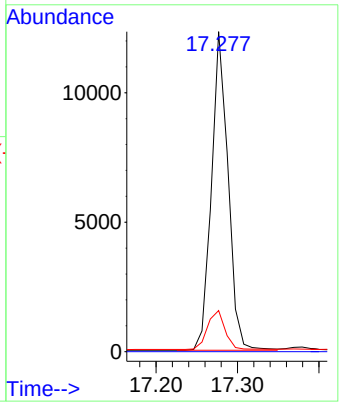


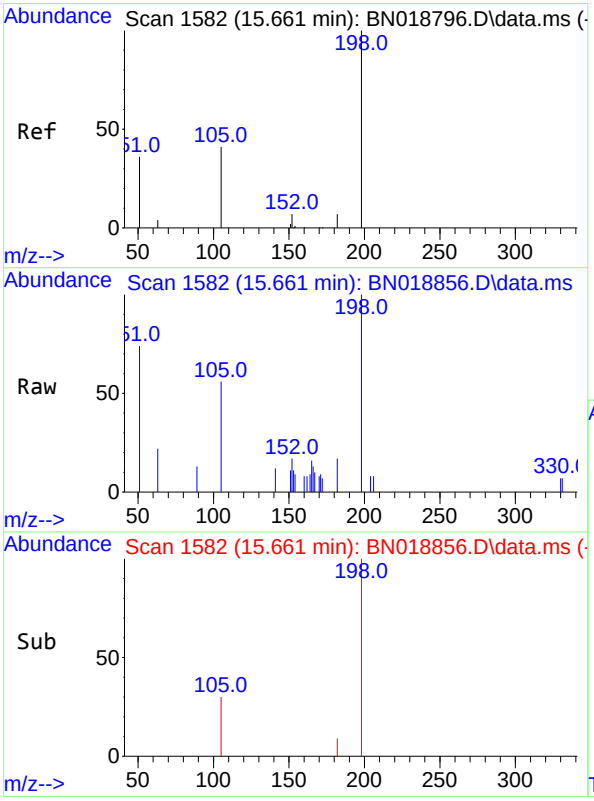
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.277 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 17382

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.8	11.8	17.8

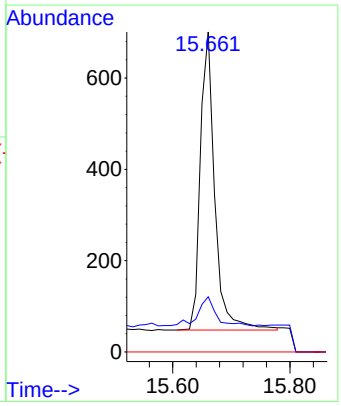


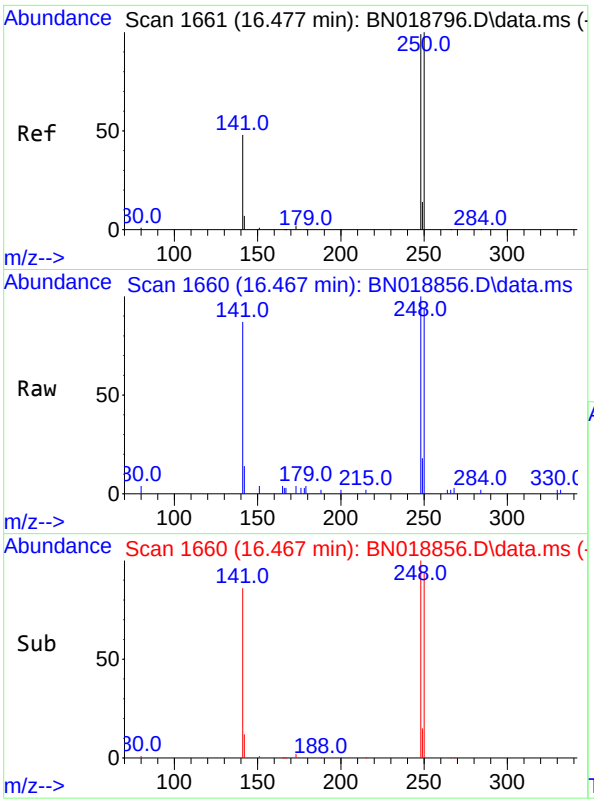


#20
4,6-Dinitro-2-methylphenol
Concen: 0.465 ng
RT: 15.661 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:198 Resp: 1119

Ion	Ratio	Lower	Upper
198	100		
182	17.3	13.0	19.4
77	0.0	0.0	0.0



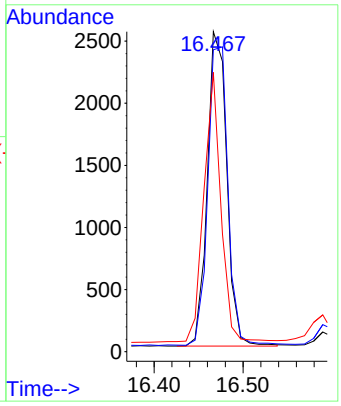


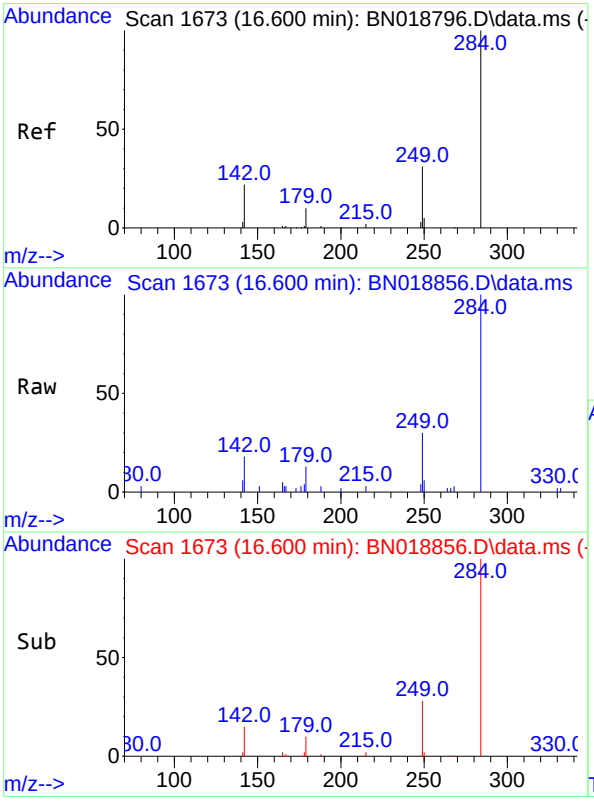
#21
4-Bromophenyl-phenylether
Concen: 0.333 ng
RT: 16.467 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3853

Ion	Ratio	Lower	Upper
248	100		
250	94.3	80.7	121.1
141	87.2	39.6	59.4#

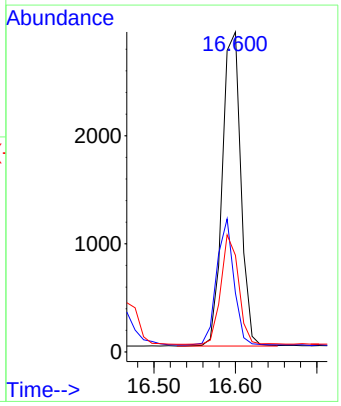


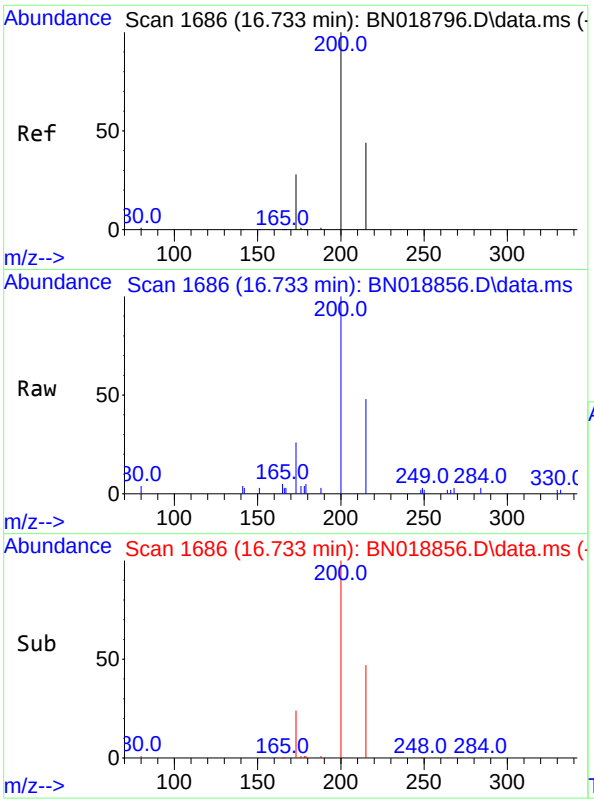


#22
Hexachlorobenzene
Concen: 0.317 ng
RT: 16.600 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:284 Resp: 4579

Ion	Ratio	Lower	Upper
284	100		
142	37.1	29.8	44.8
249	33.3	26.2	39.2



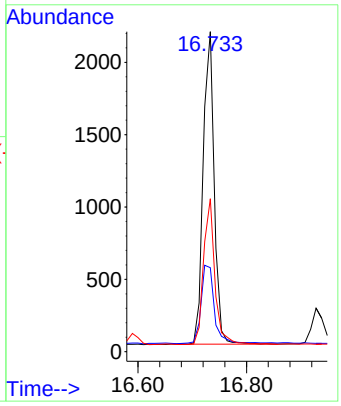


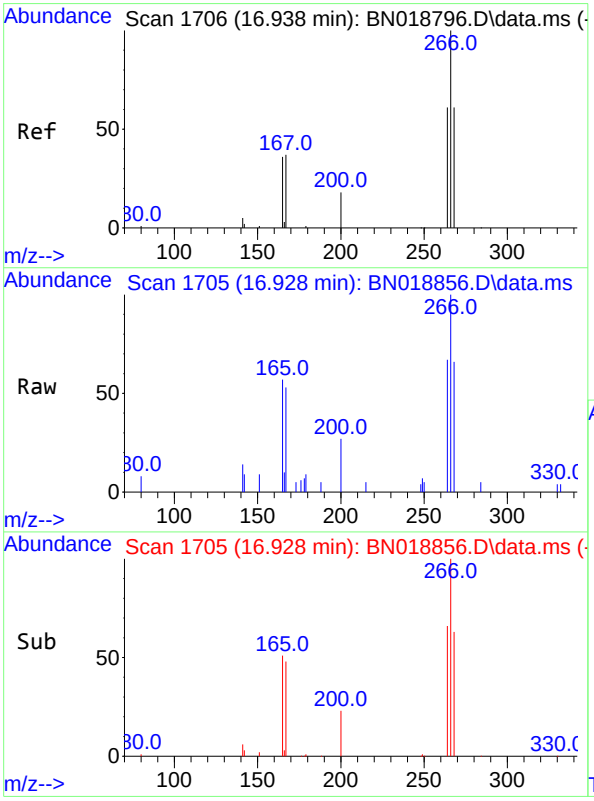
#23
Atrazine
Concen: 0.444 ng
RT: 16.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3033

Ion	Ratio	Lower	Upper
200	100		
173	26.3	23.9	35.9
215	47.8	36.6	54.8

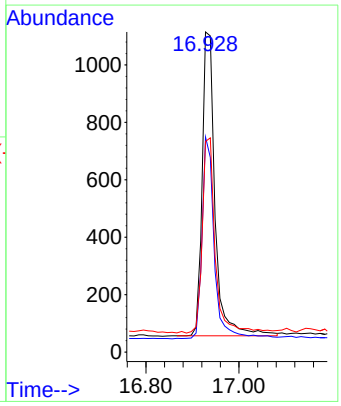


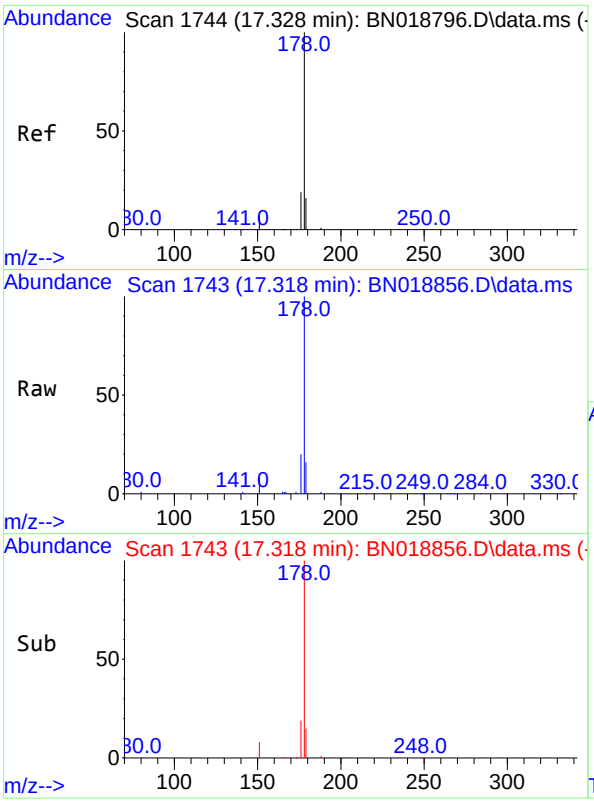


#24
Pentachlorophenol
Concen: 0.608 ng
RT: 16.928 min Scan# 1705
Delta R.T. -0.010 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:266 Resp: 2024

Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.2	75.4
268	64.4	51.9	77.9



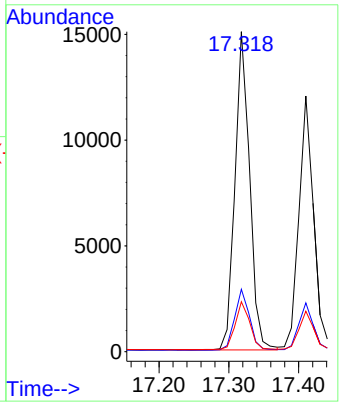


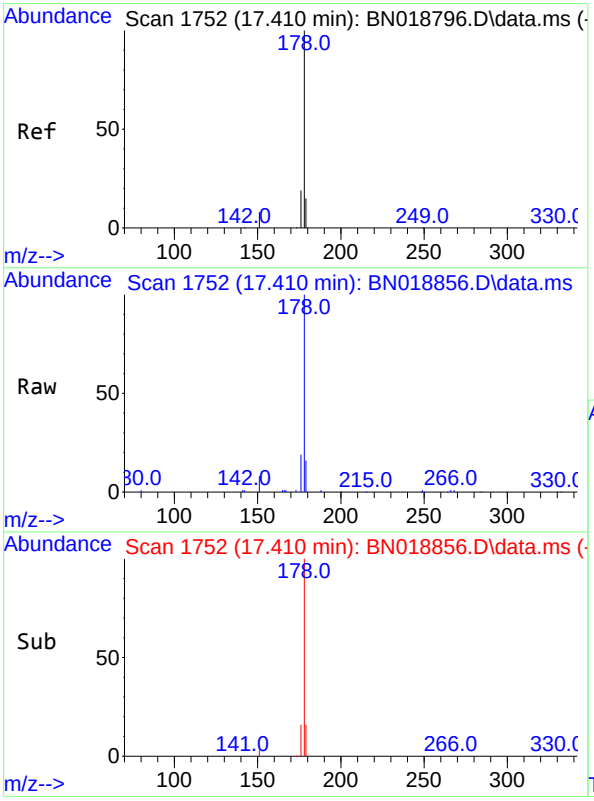
#25
Phenanthrene
Concen: 0.380 ng
RT: 17.318 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 21922

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.4	12.2	18.2

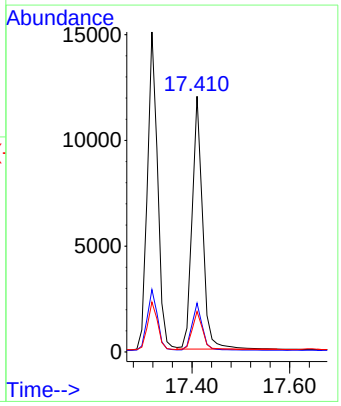


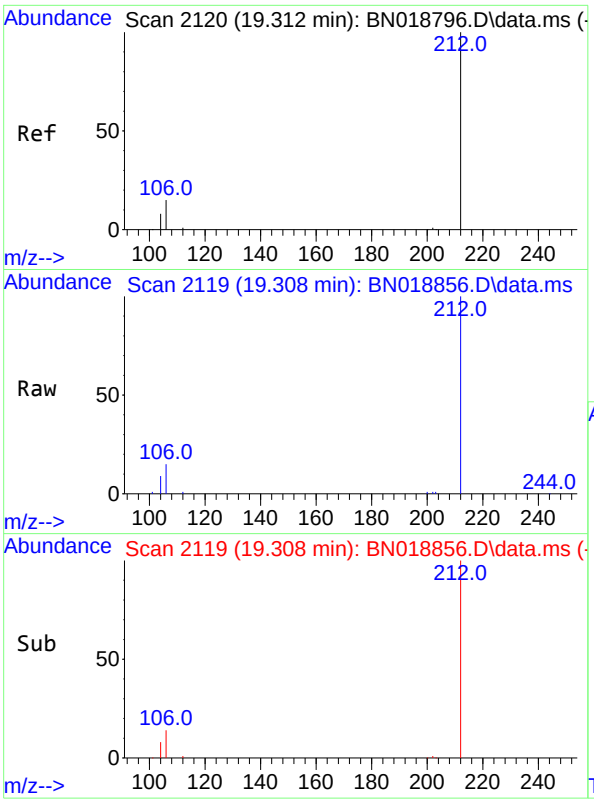


#26
Anthracene
Concen: 0.368 ng
RT: 17.410 min Scan# 1752
Delta R.T. 0.000 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:178 Resp: 17906

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.8	22.2
179	14.9	12.2	18.4



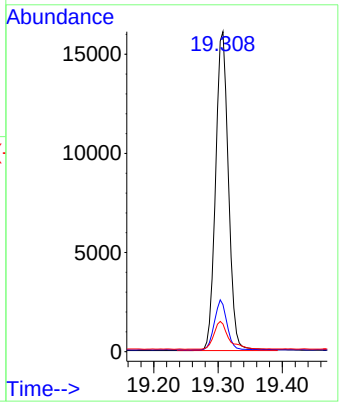


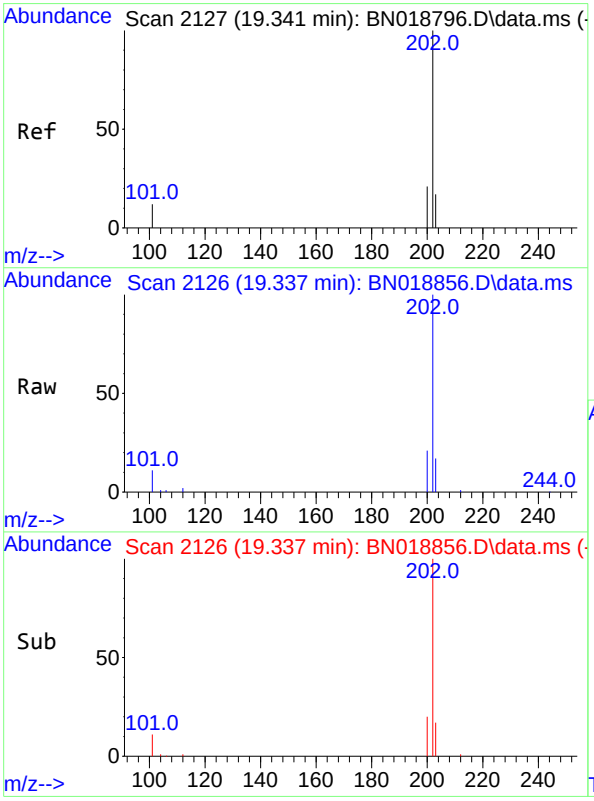
#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.308 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 22232

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.7	19.1
104	9.8	7.1	10.7

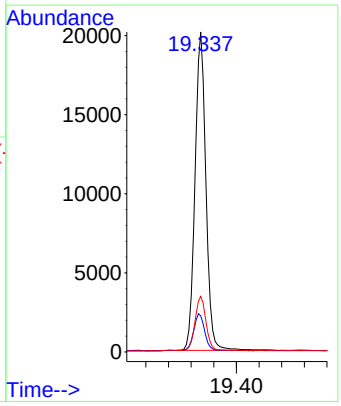


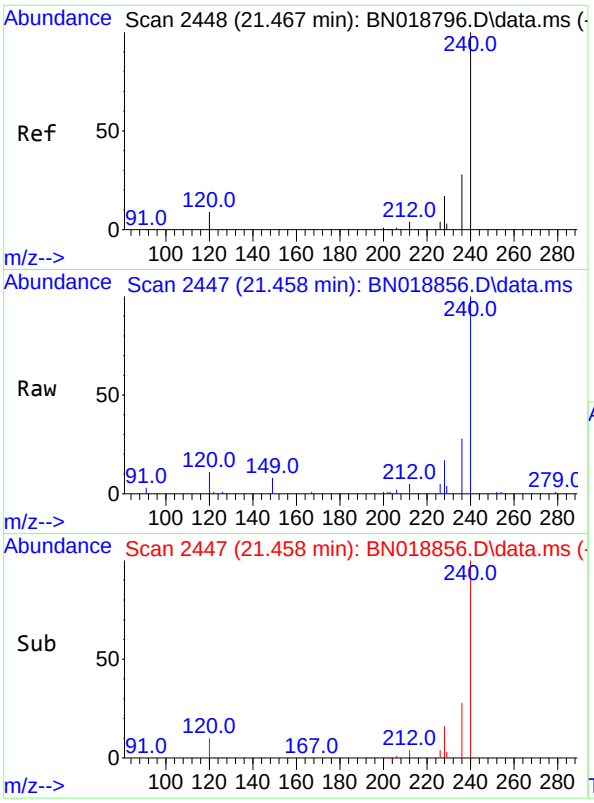


#28
Fluoranthene
Concen: 0.412 ng
RT: 19.337 min Scan# 2126
Delta R.T. -0.004 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:202 Resp: 27003

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	17.1	13.7	20.5



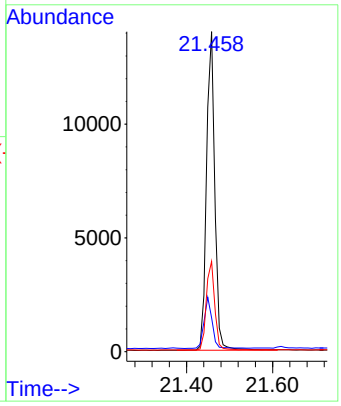


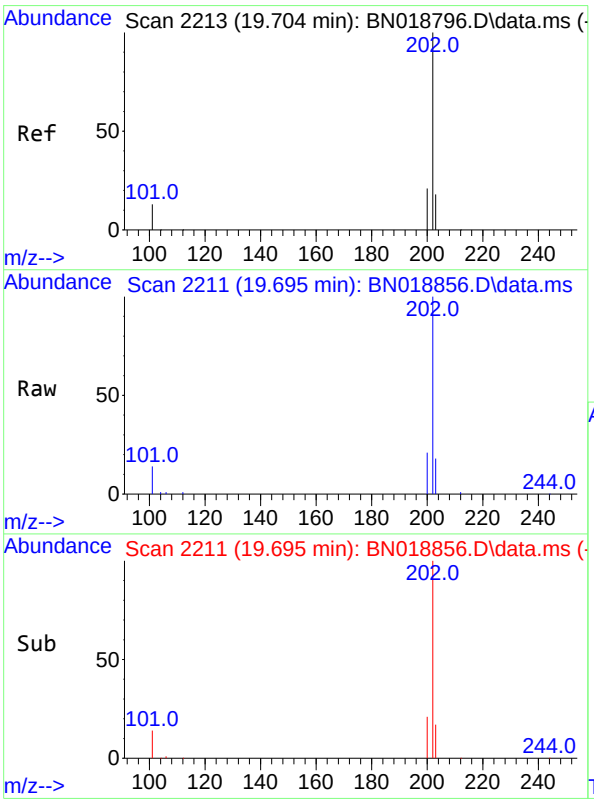
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.458 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 18836

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.5	12.7
236	28.2	22.4	33.6

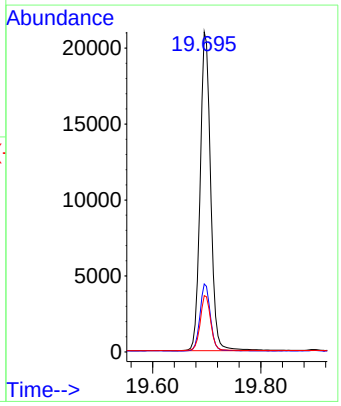


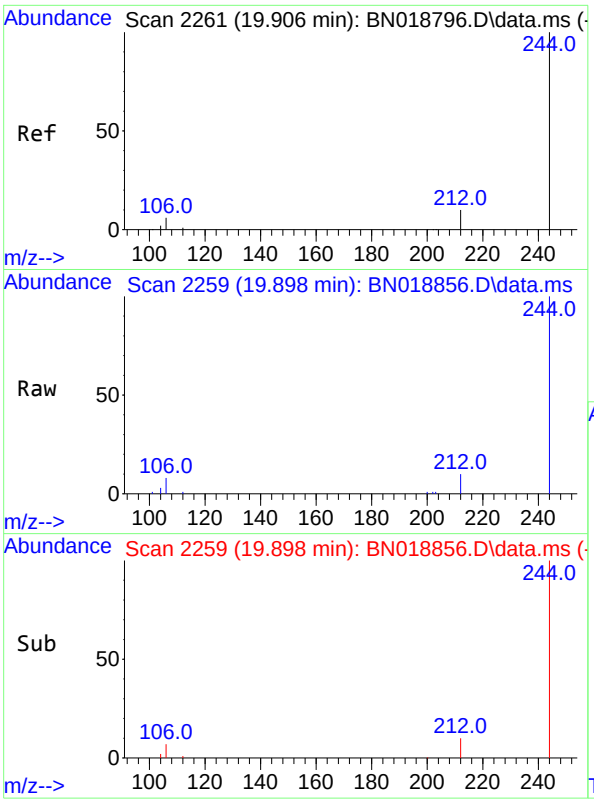


#30
Pyrene
Concen: 0.335 ng
RT: 19.695 min Scan# 2211
Delta R.T. -0.008 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:202 Resp: 28176

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3
203	17.5	14.2	21.2



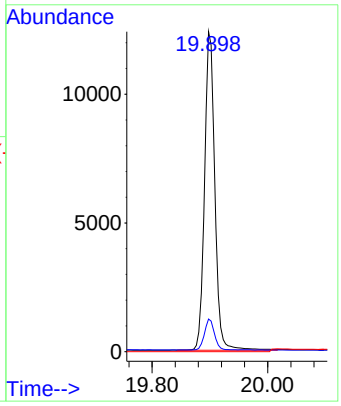


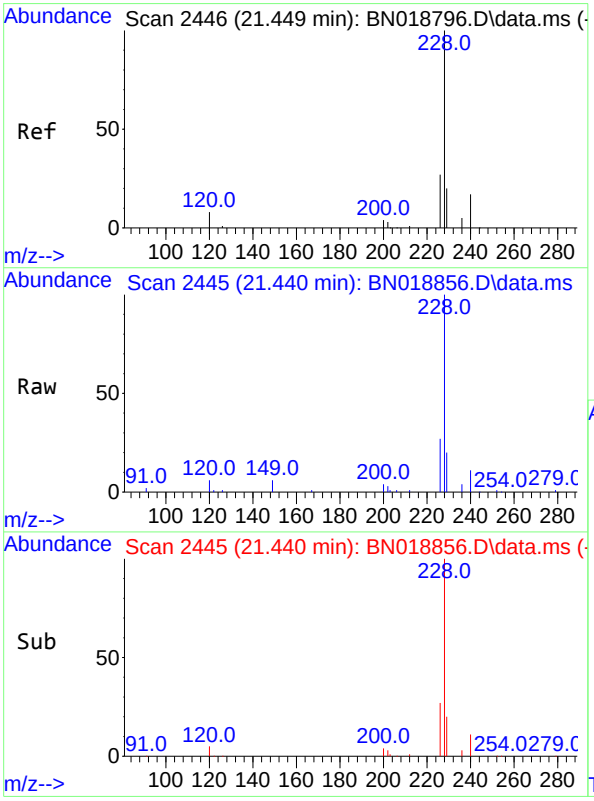
#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.898 min Scan# 2
Delta R.T. -0.008 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 15646

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.2	12.4
122	0.0	0.0	0.0

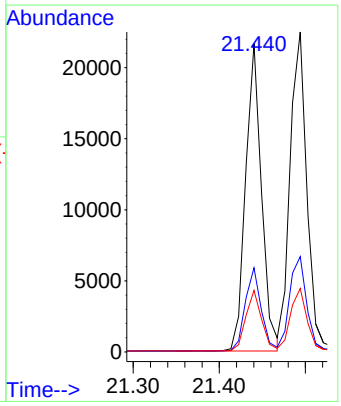


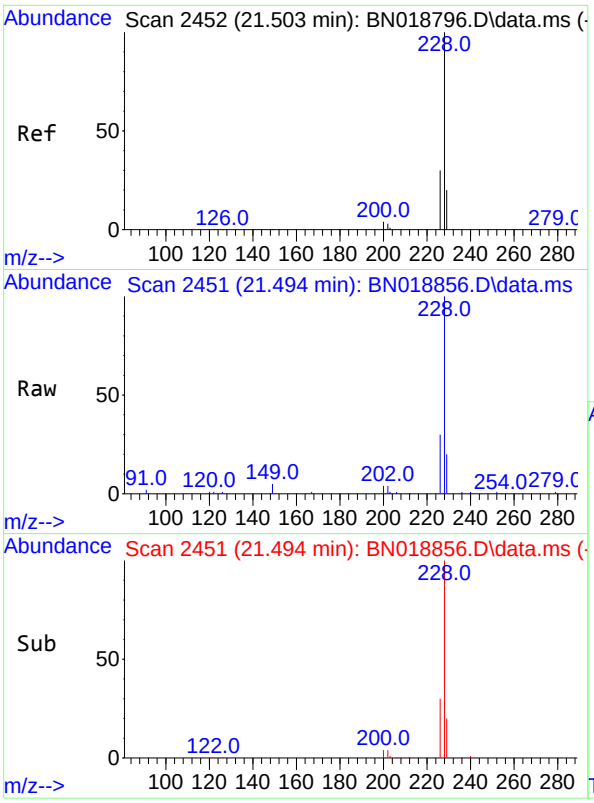


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.440 min Scan# 2445
Delta R.T. -0.009 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:228 Resp: 27838

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.9	32.9
229	20.0	16.0	24.0



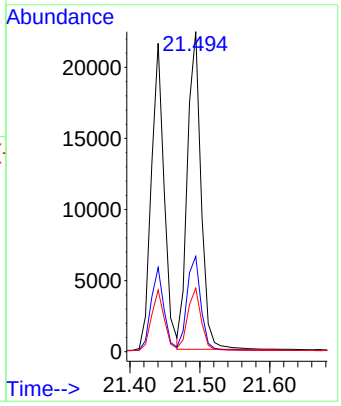


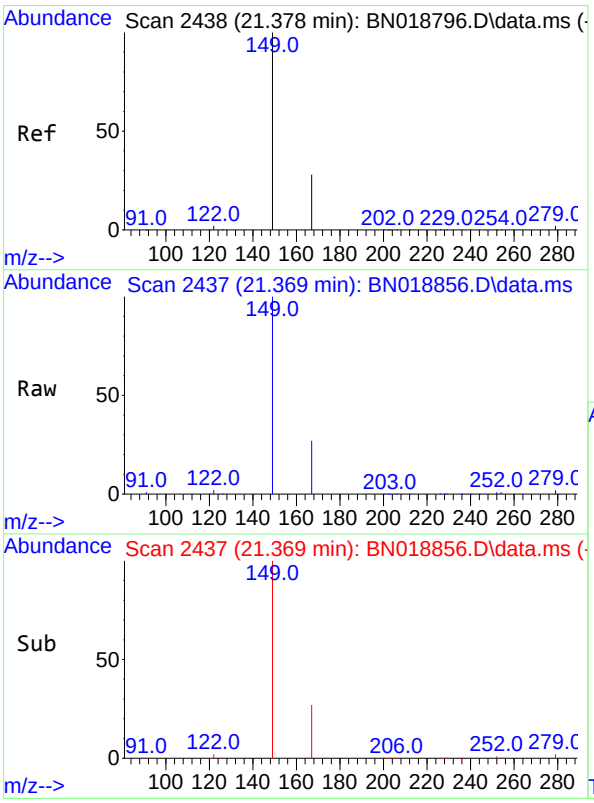
#33
Chrysene
Concen: 0.389 ng
RT: 21.494 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 30221

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.9	15.9	23.9

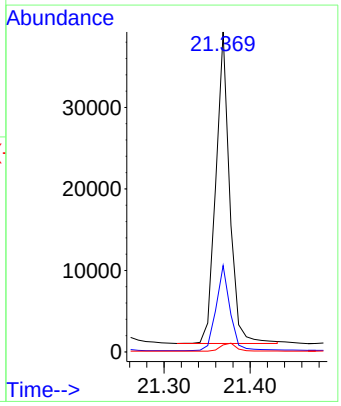


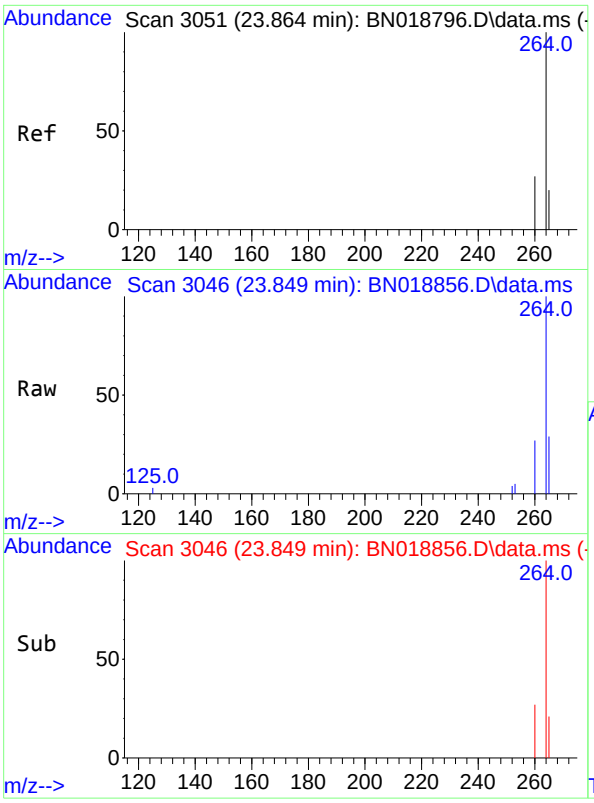


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.971 ng
RT: 21.369 min Scan# 2437
Delta R.T. -0.009 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:149 Resp: 42444

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.8	32.8
279	3.0	2.0	3.0



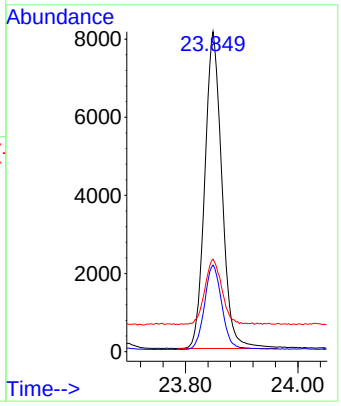


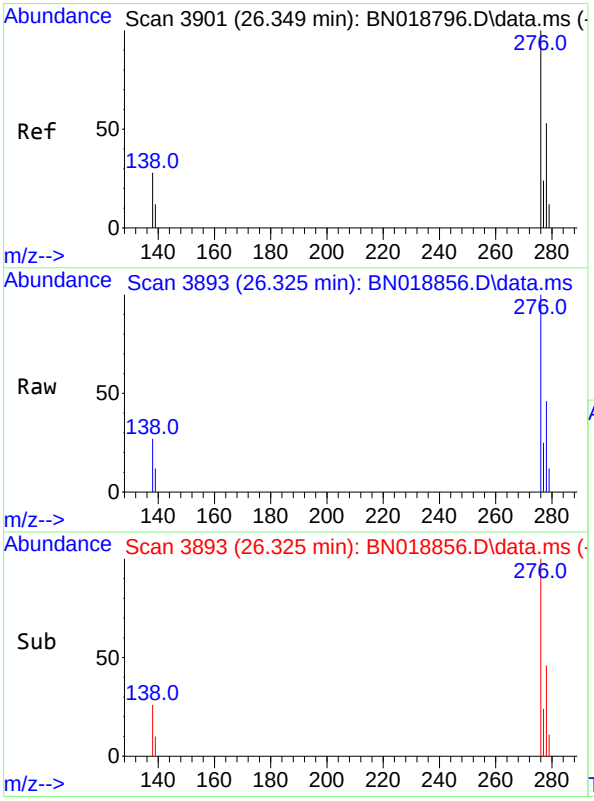
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.849 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 17144

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.4	33.6
265	28.9	25.3	37.9

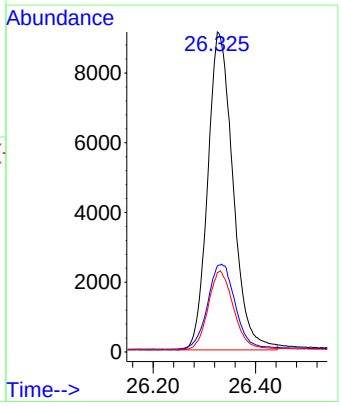


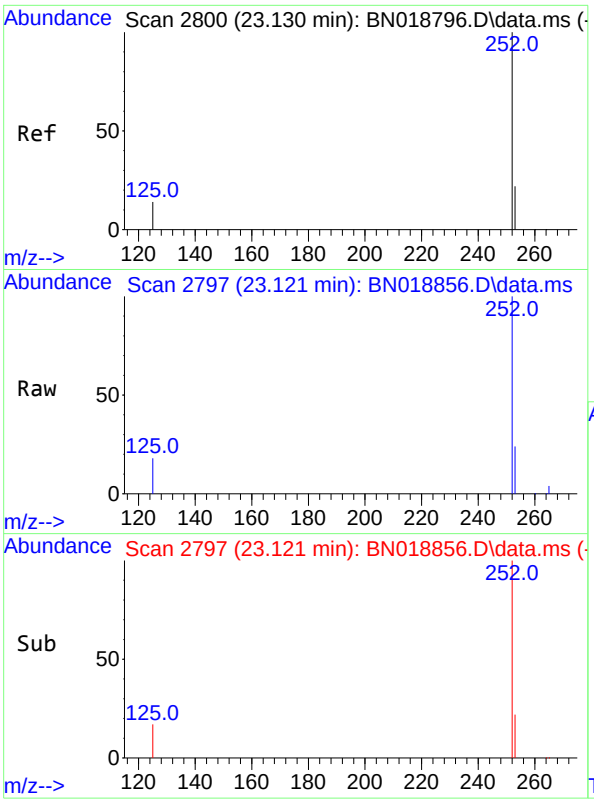


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 26.325 min Scan# 3893
Delta R.T. -0.023 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:276 Resp: 31154

Ion	Ratio	Lower	Upper
276	100		
138	29.2	24.5	36.7
277	25.0	19.8	29.8



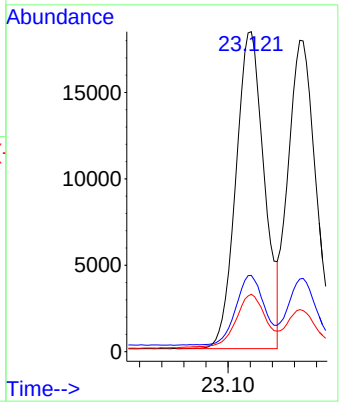


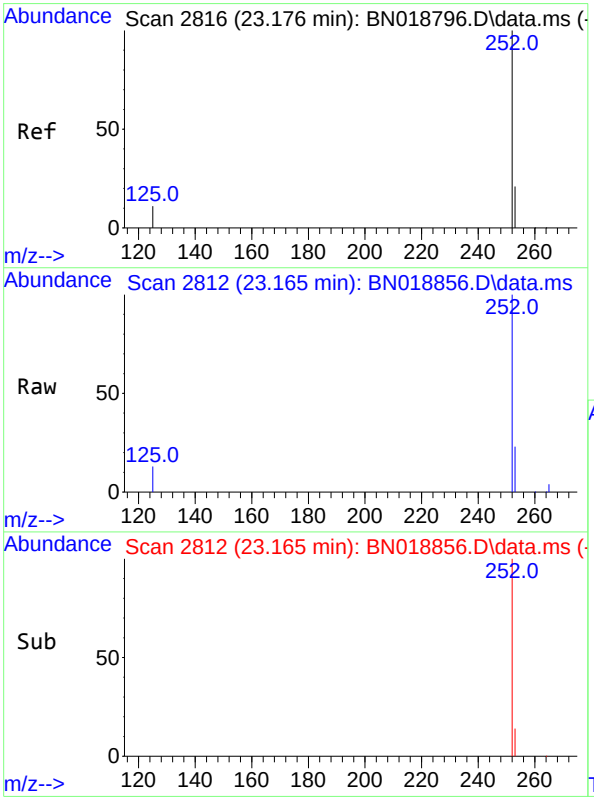
#37
Benzo(b)fluoranthene
Concen: 0.410 ng
RT: 23.121 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 32758

Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.9	28.3
125	18.0	12.1	18.1

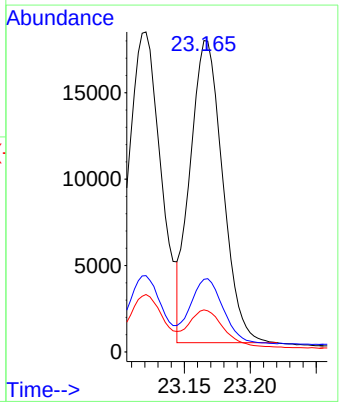


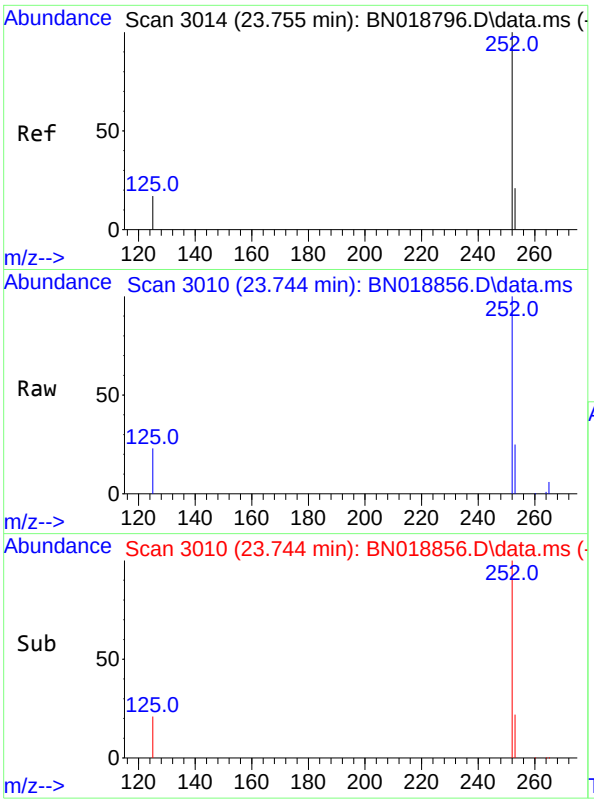


#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 23.165 min Scan# 2812
Delta R.T. -0.012 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:252 Resp: 30066

Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.9	28.3
125	13.5	10.3	15.5



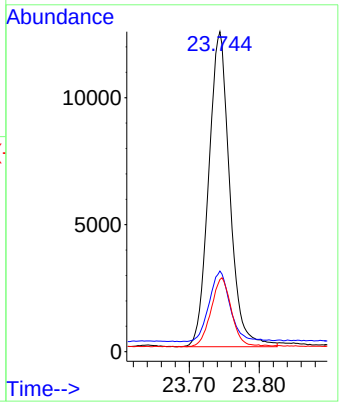


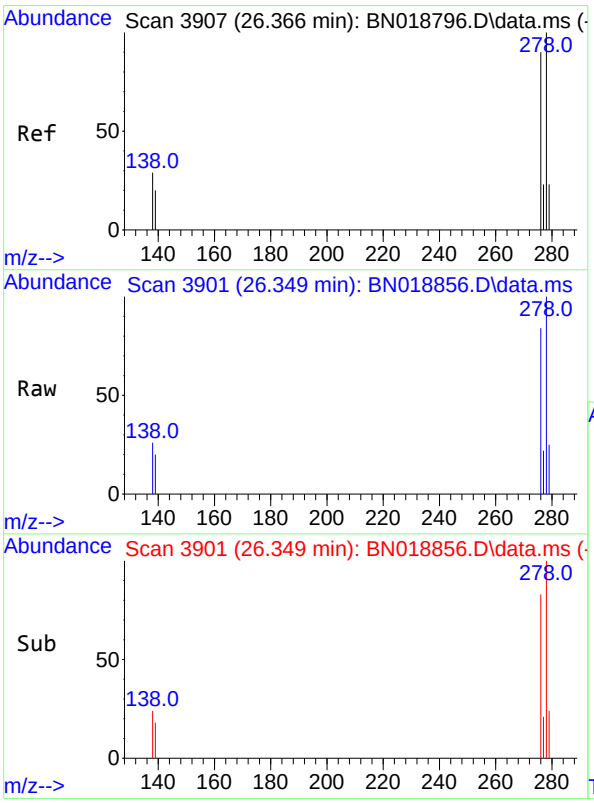
#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 23.744 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 25889

Ion	Ratio	Lower	Upper
252	100		
253	25.2	20.1	30.1
125	22.5	15.2	22.8

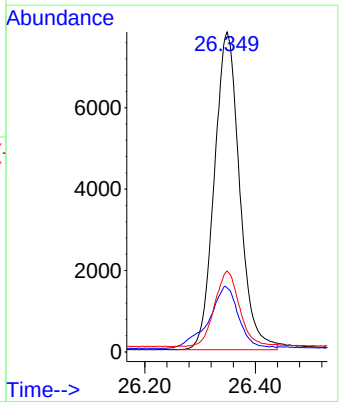


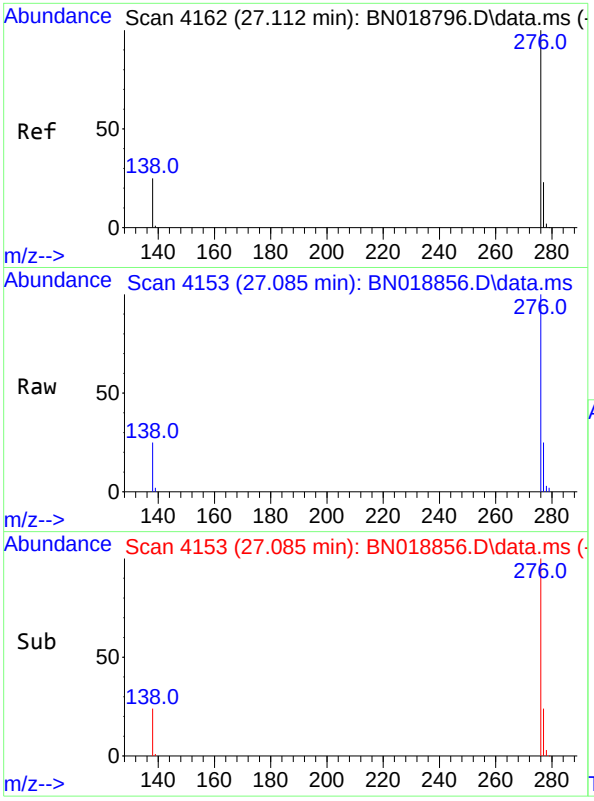


#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 26.349 min Scan# 3901
Delta R.T. -0.018 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Tgt Ion:278 Resp: 24752

Ion	Ratio	Lower	Upper
278	100		
139	20.0	17.2	25.8
279	25.3	19.9	29.9





#41
Benzo(g,h,i)perylene
Concen: 0.410 ng
RT: 27.085 min Scan# 4
Delta R.T. -0.026 min
Lab File: BN018856.D
Acq: 07 Mar 2022 12:57

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 26001

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.0
138	24.8	21.0	31.6