Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122223\
Data File : BN029182.D
Acq On : 22 Dec 2023 18:06
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Dec 23 03:47:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 23 03:40:55 2023
Response via : Initial Calibration

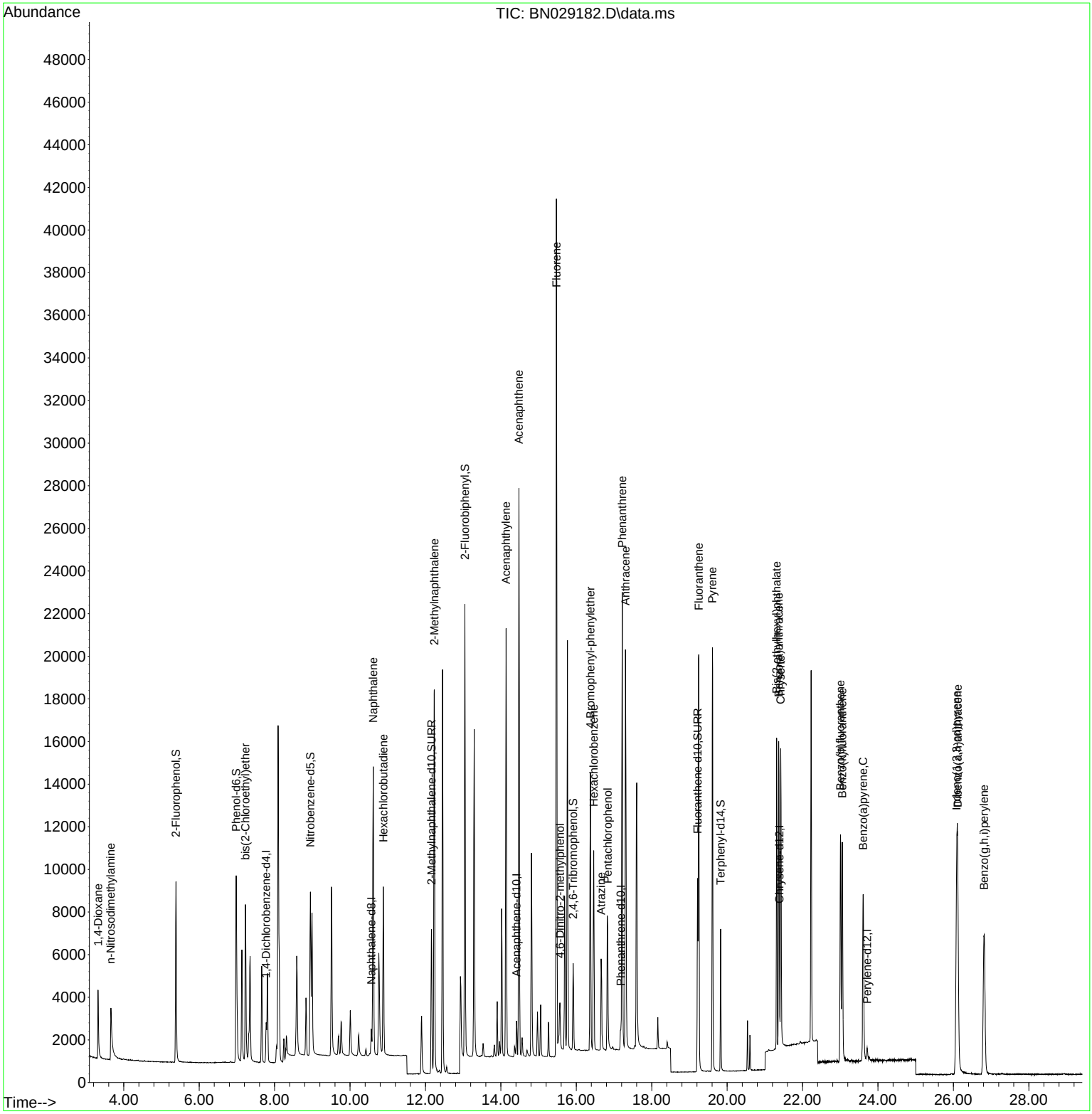
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	948	0.400	ng		0.00
7) Naphthalene-d8	10.562	136	1725	0.400	ng		-0.01
13) Acenaphthene-d10	14.414	164	927	0.400	ng		-0.01
19) Phenanthrene-d10	17.180	188	1511	0.400	ng		0.00
29) Chrysene-d12	21.384	240	640	0.400	ng		0.00
35) Perylene-d12	23.712	264	786	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.384	112	6895	3.187	ng		0.00
5) Phenol-d6	6.980	99	7955	3.279	ng		0.00
8) Nitrobenzene-d5	8.950	82	7310	3.368	ng		-0.01
11) 2-Methylnaphthalene-d10	12.158	152	9662	3.418	ng		0.00
14) 2,4,6-Tribromophenol	15.914	330	2163	3.182	ng		-0.01
15) 2-Fluorobiphenyl	13.046	172	17501	3.338	ng		-0.01
27) Fluoranthene-d10	19.215	212	10170	3.224	ng		0.00
31) Terphenyl-d14	19.828	244	5851	3.139	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.318	88	2725	3.254	ng		92
3) n-Nitrosodimethylamine	3.658	42	2235	3.469	ng	#	74
6) bis(2-Chloroethyl)ether	7.226	93	5907	3.465	ng		92
9) Naphthalene	10.615	128	17274	3.241	ng	#	89
10) Hexachlorobutadiene	10.882	225	5216	3.180	ng	#	99
12) 2-Methylnaphthalene	12.234	142	12665	3.354	ng		96
16) Acenaphthylene	14.136	152	20401	3.326	ng		99
17) Acenaphthene	14.479	154	12263	3.263	ng		98
18) Fluorene	15.473	166	17463	3.304	ng		98
20) 4,6-Dinitro-2-methylph...	15.567	198	2105	3.275	ng	#	40
21) 4-Bromophenyl-phenylether	16.374	248	4746	3.339	ng	#	79
22) Hexachlorobenzene	16.461	284	5442	3.244	ng		98
23) Atrazine	16.659	200	4129	3.193	ng	#	87
24) Pentachlorophenol	16.833	266	3386	3.478	ng		96
25) Phenanthrene	17.218	178	21345	3.226	ng		99
26) Anthracene	17.305	178	20973	3.298	ng		100
28) Fluoranthene	19.247	202	18927	3.194	ng	#	99
30) Pyrene	19.610	202	18685	3.101	ng		99
32) Benzo(a)anthracene	21.366	228	12473	3.432	ng		93
33) Chrysene	21.420	228	11596	3.277	ng		92
34) Bis(2-ethylhexyl)phtha...	21.312	149	13390	2.892	ng		98
36) Indeno(1,2,3-cd)pyrene	26.086	276	18390	3.475	ng	#	86
37) Benzo(b)fluoranthene	23.004	252	14048	3.400	ng	#	75
38) Benzo(k)fluoranthene	23.054	252	14232	3.369	ng	#	75
39) Benzo(a)pyrene	23.607	252	12803	3.397	ng	#	66
40) Dibenzo(a,h)anthracene	26.115	278	14306	3.553	ng	#	70
41) Benzo(g,h,i)perylene	26.817	276	15354	3.407	ng	#	85

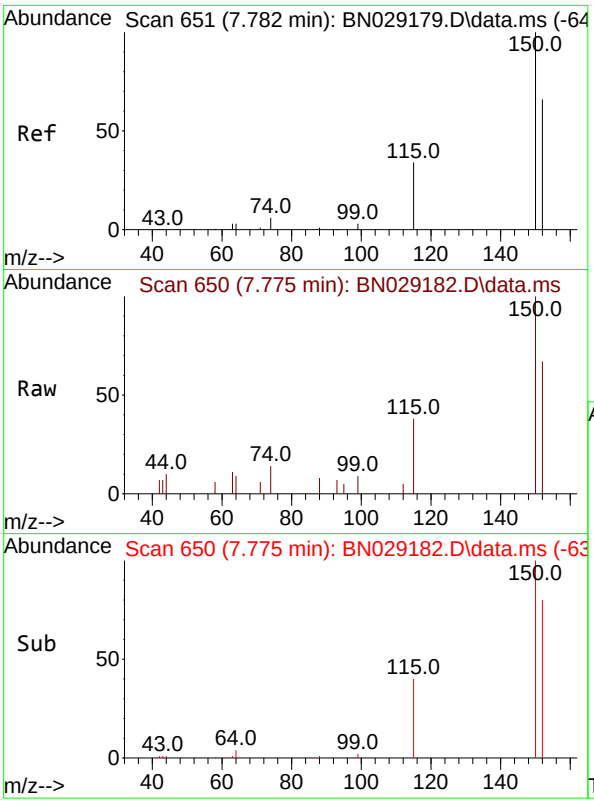
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122223\
Data File : BN029182.D
Acq On : 22 Dec 2023 18:06
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Dec 23 03:47:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 23 03:40:55 2023
Response via : Initial Calibration



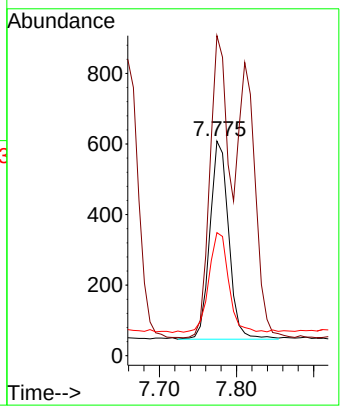


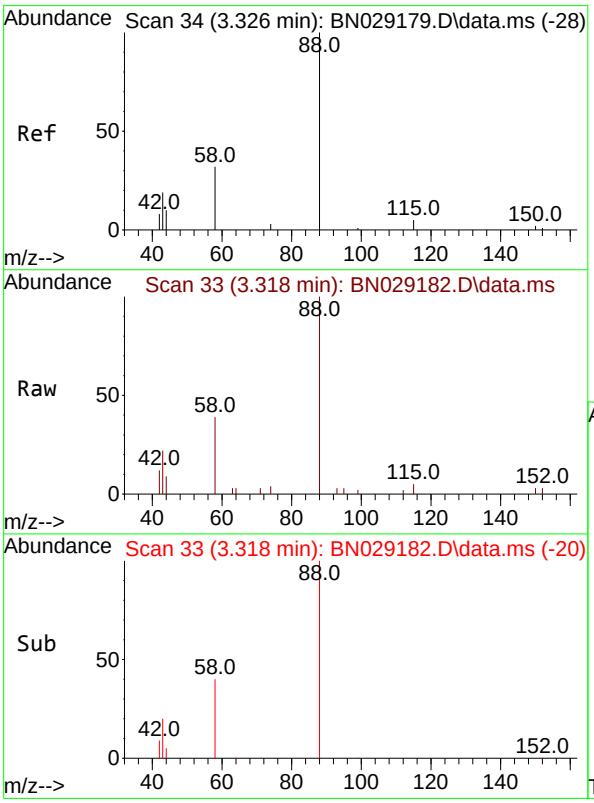
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 948

Ion	Ratio	Lower	Upper
152	100		
150	149.2	117.5	176.3
115	57.4	46.3	69.5

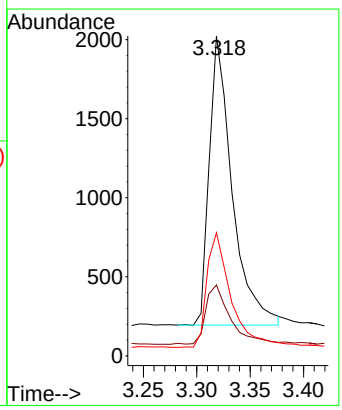


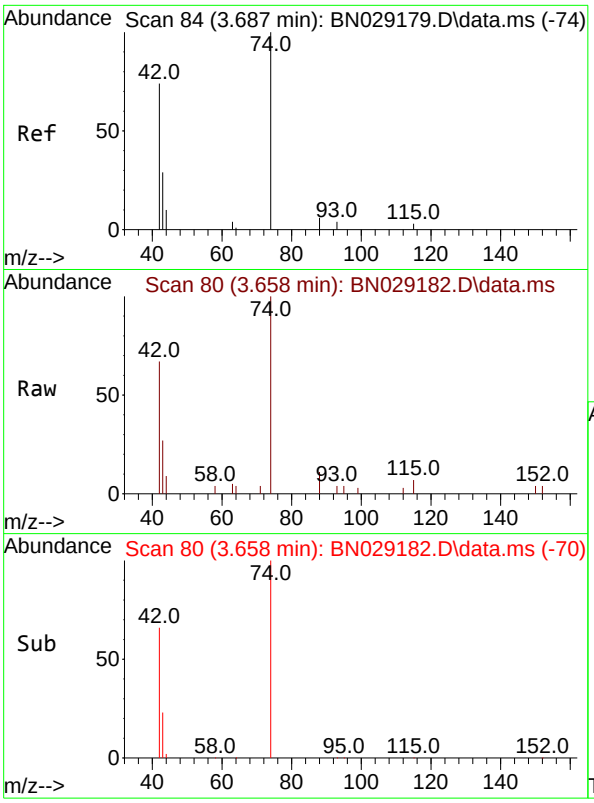


#2
1,4-Dioxane
Concen: 3.254 ng
RT: 3.318 min Scan# 33
Delta R.T. -0.008 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion: 88 Resp: 2725

Ion	Ratio	Lower	Upper
88	100		
43	22.1	19.1	28.7
58	41.5	28.2	42.4



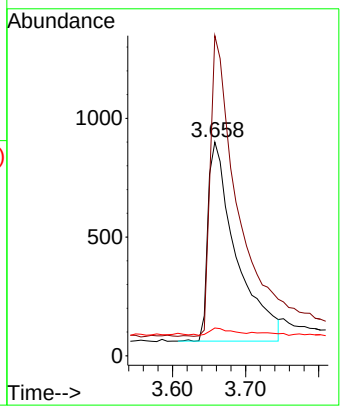


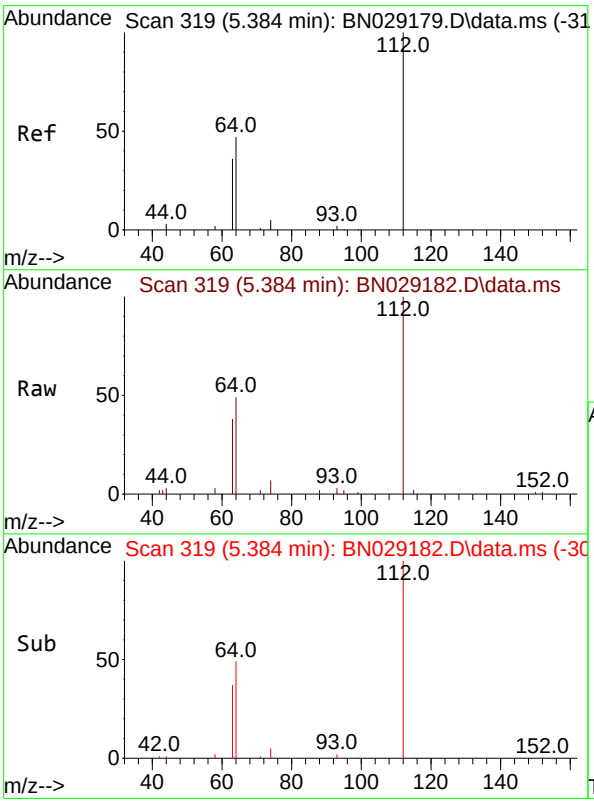
#3
n-Nitrosodimethylamine
Concen: 3.469 ng
RT: 3.658 min Scan# 8
Delta R.T. -0.029 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 2235

Ion	Ratio	Lower	Upper
42	100		
74	148.1	95.1	142.7#
44	2.9	7.6	11.4#

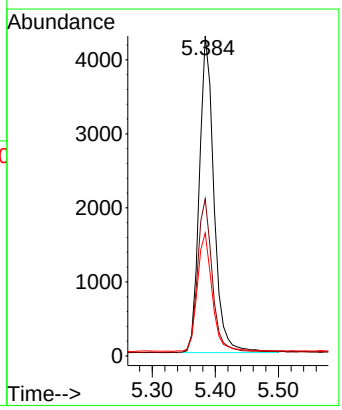


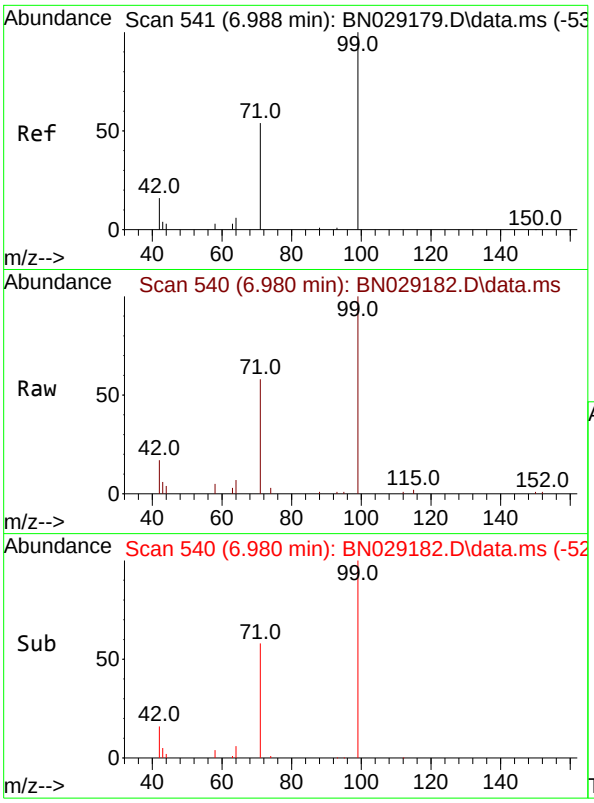


#4
2-Fluorophenol
Concen: 3.187 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:112 Resp: 6895

Ion	Ratio	Lower	Upper
112	100		
64	49.0	37.8	56.6
63	37.8	29.4	44.0



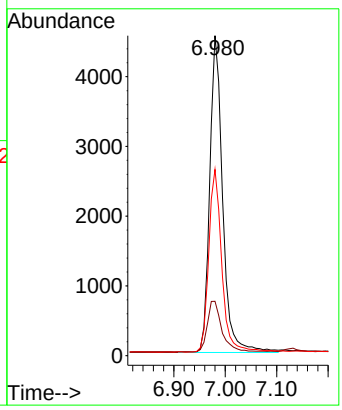


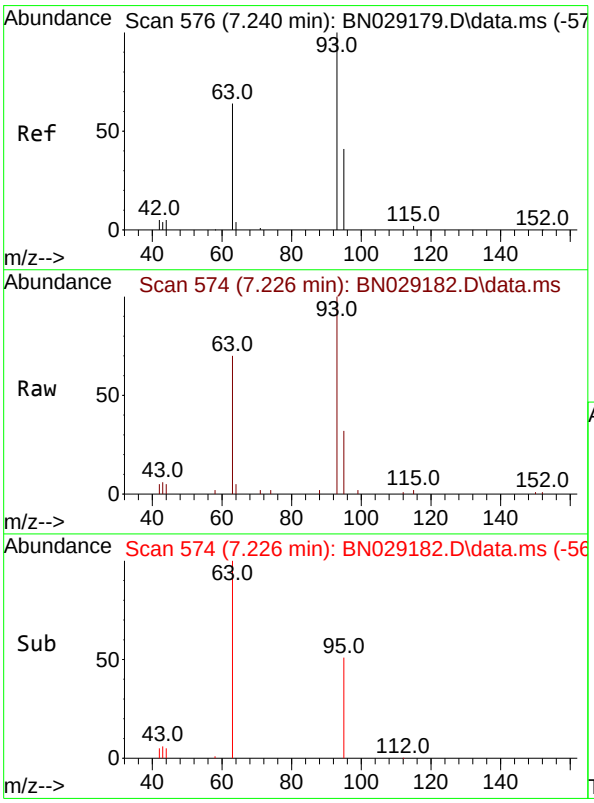
#5
Phenol-d6
Concen: 3.279 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 7955

Ion	Ratio	Lower	Upper
99	100		
42	18.1	16.8	25.2
71	58.6	43.4	65.2

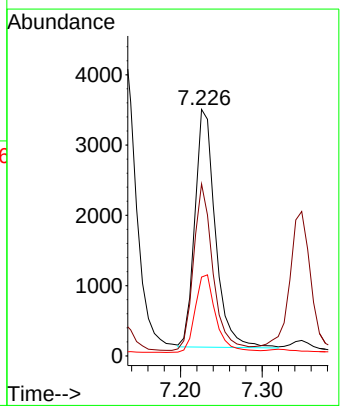


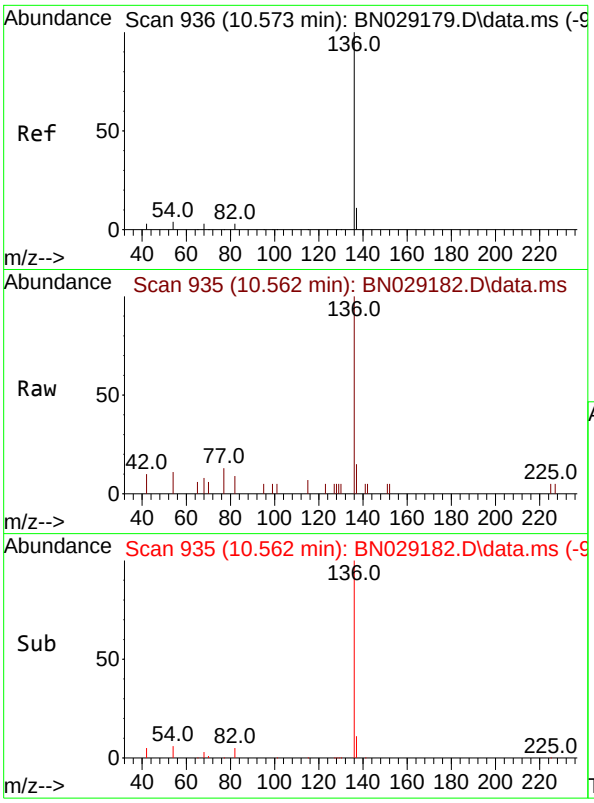


#6
bis(2-Chloroethyl)ether
Concen: 3.465 ng
RT: 7.226 min Scan# 574
Delta R.T. -0.015 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion: 93 Resp: 5907

Ion	Ratio	Lower	Upper
93	100		
63	65.9	58.4	87.6
95	33.2	29.2	43.8



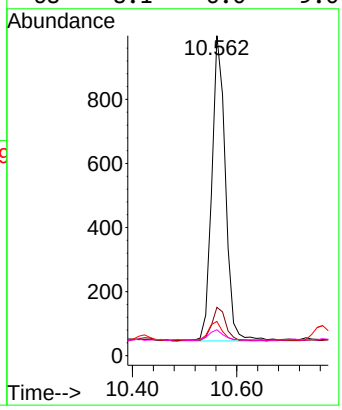


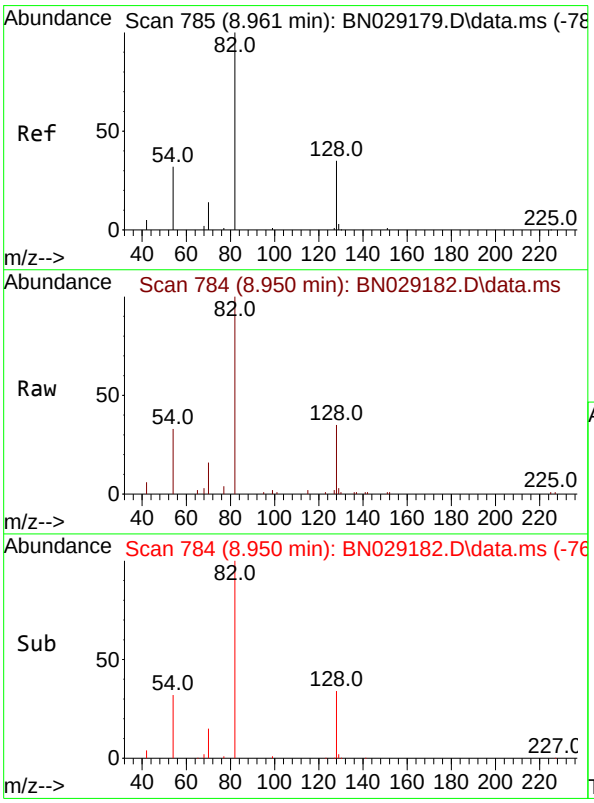
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 1725

Ion	Ratio	Lower	Upper
136	100		
137	15.1	12.1	18.1
54	10.7	7.2	10.8
68	8.1	6.0	9.0

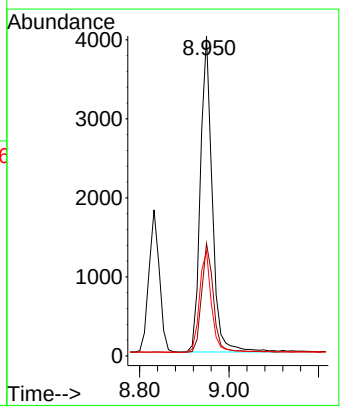


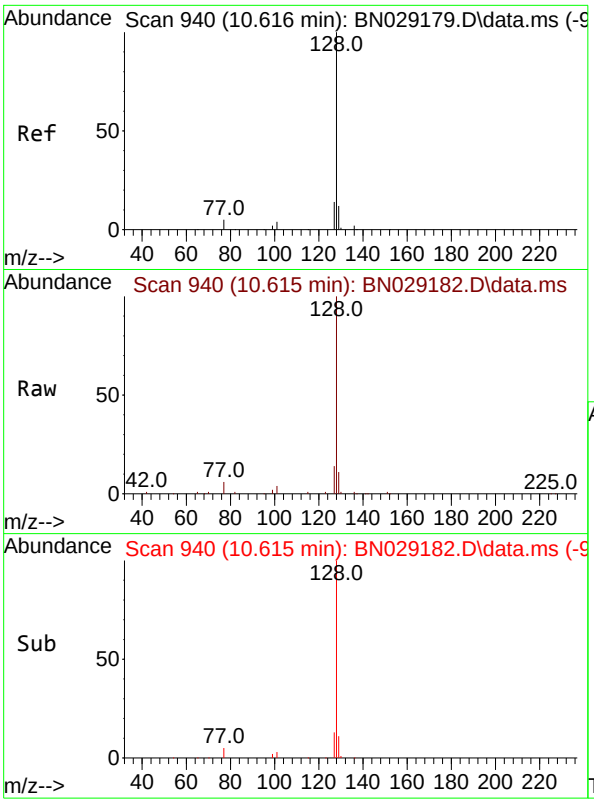


#8
Nitrobenzene-d5
Concen: 3.368 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.011 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion: 82 Resp: 7310

Ion	Ratio	Lower	Upper
82	100		
128	35.2	34.5	51.7
54	32.8	33.4	50.0#



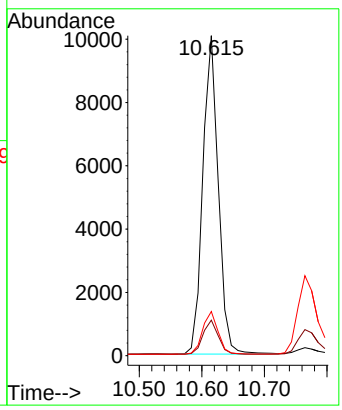


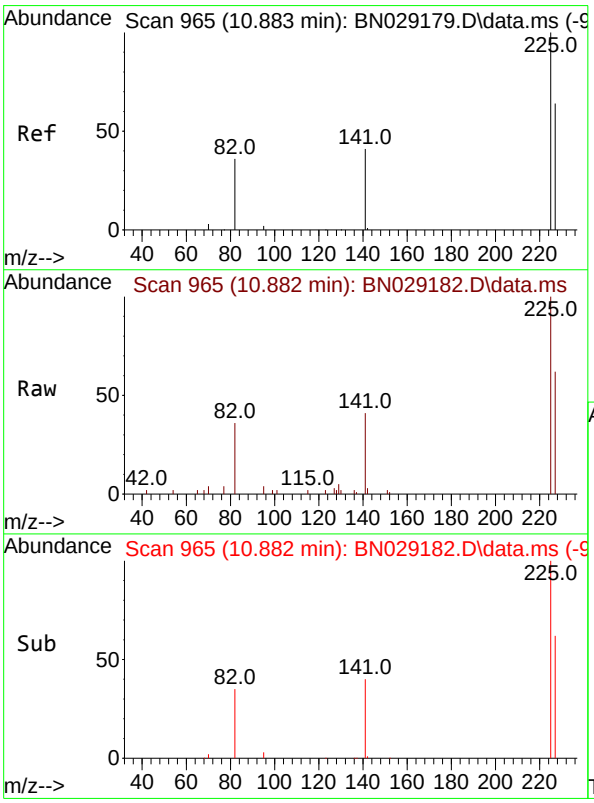
#9
Naphthalene
Concen: 3.241 ng
RT: 10.615 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 17274

Ion	Ratio	Lower	Upper
128	100		
129	11.1	13.0	19.6#
127	13.8	14.4	21.6#

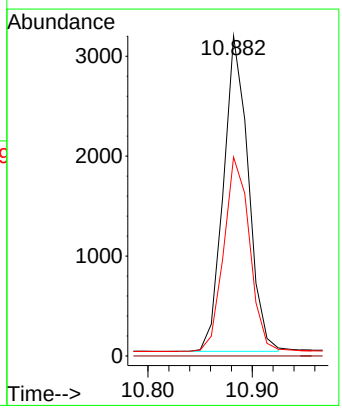


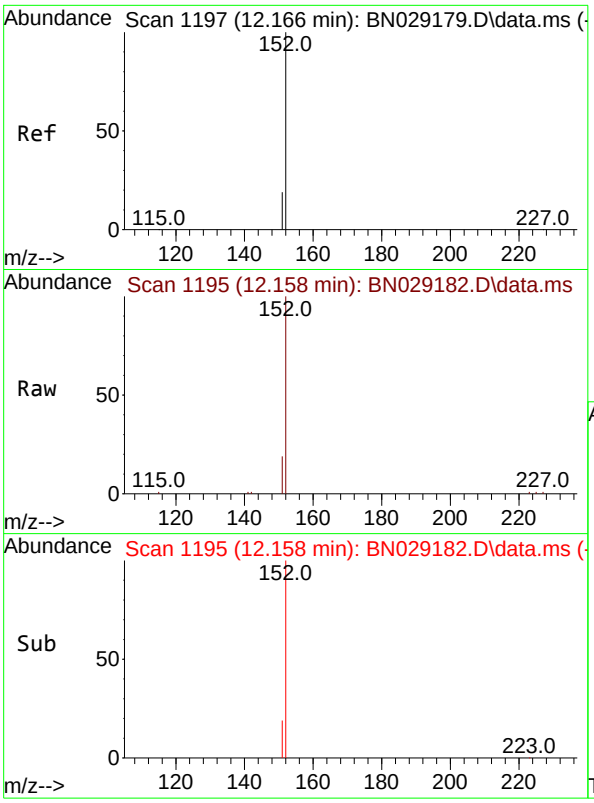


#10
Hexachlorobutadiene
Concen: 3.180 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:225 Resp: 5216

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.4	75.6



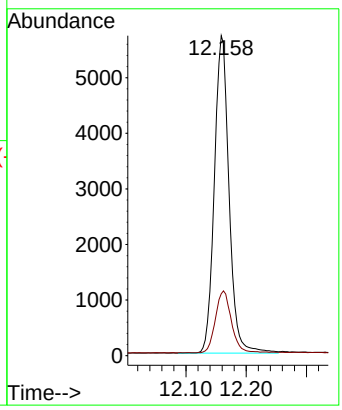


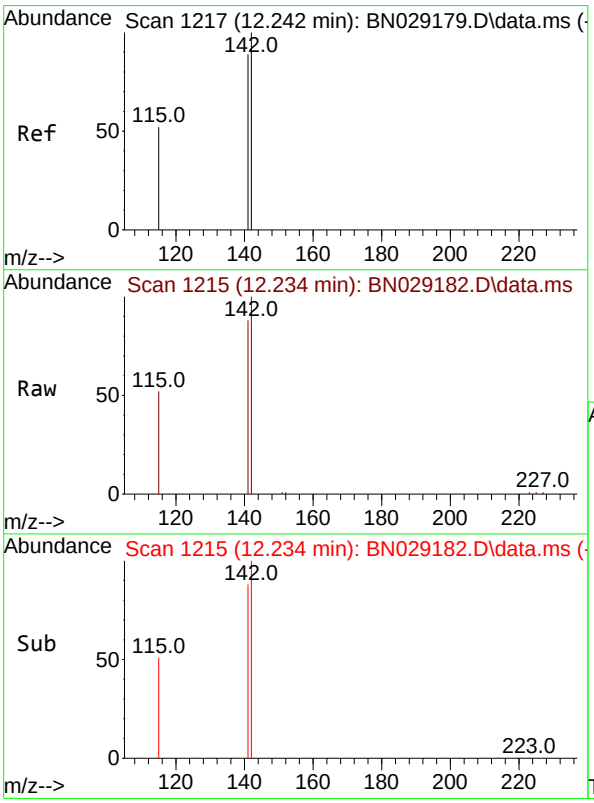
#11
2-Methylnaphthalene-d10
Concen: 3.418 ng
RT: 12.158 min Scan# 11
Delta R.T. -0.008 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 9662

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.4	26.0

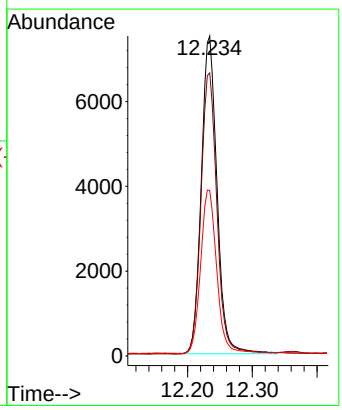


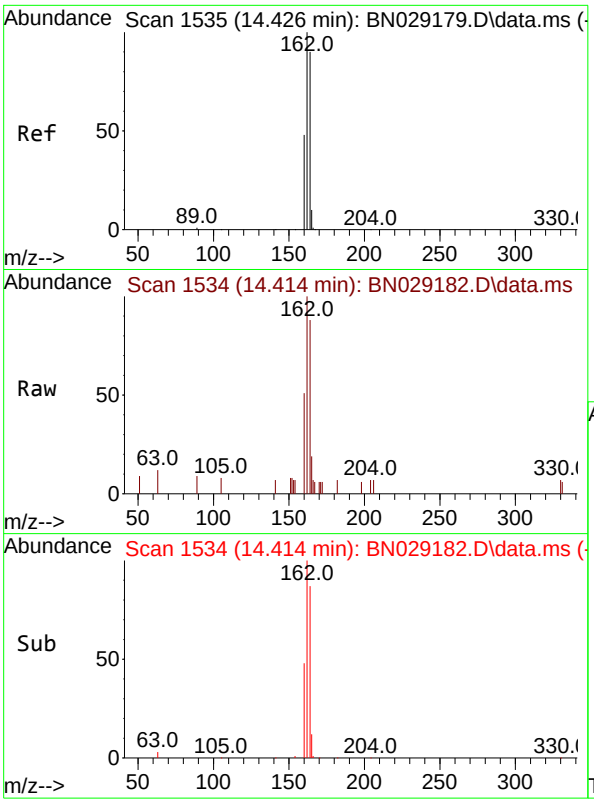


#12
2-Methylnaphthalene
Concen: 3.354 ng
RT: 12.234 min Scan# 1215
Delta R.T. -0.008 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:142 Resp: 12665

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.9	107.9
115	51.7	46.1	69.1



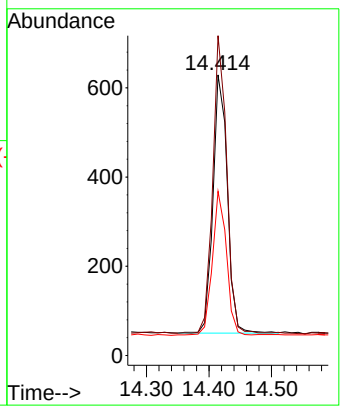


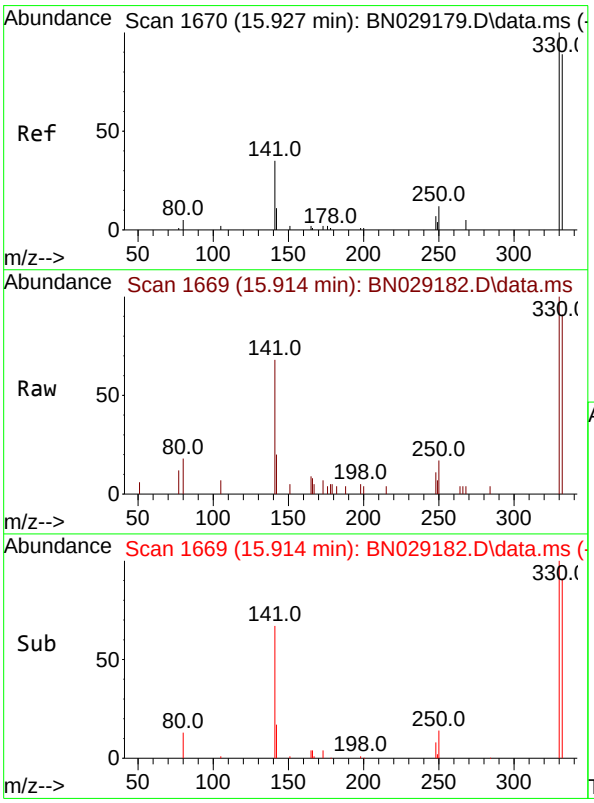
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.414 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 927

Ion	Ratio	Lower	Upper
164	100		
162	114.0	88.2	132.2
160	58.5	44.9	67.3

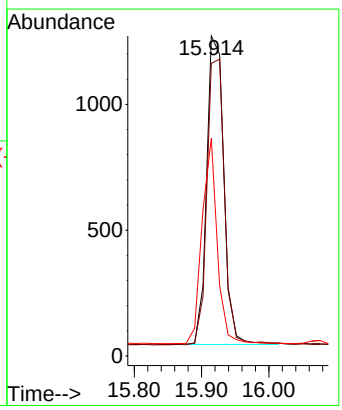


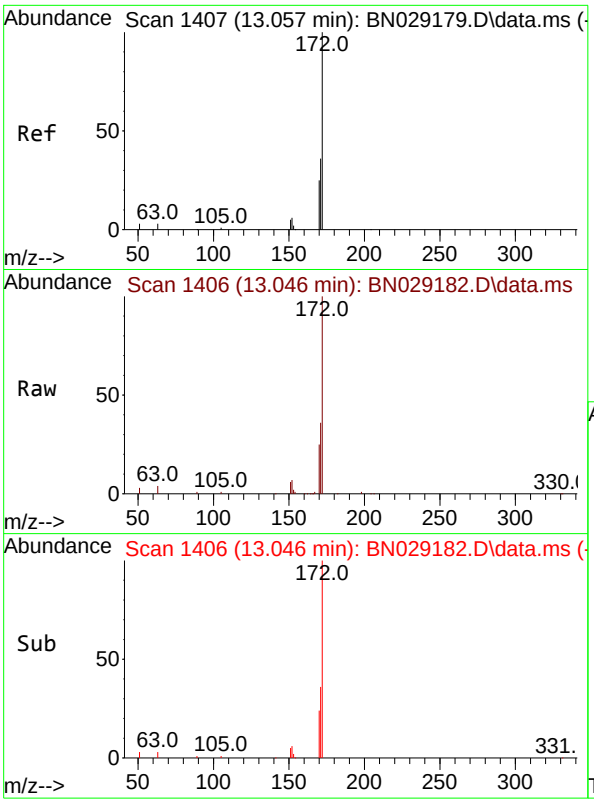


#14
2,4,6-Tribromophenol
Concen: 3.182 ng
RT: 15.914 min Scan# 1669
Delta R.T. -0.013 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:330 Resp: 2163

Ion	Ratio	Lower	Upper
330	100		
332	94.7	77.6	116.4
141	58.9	40.2	60.2



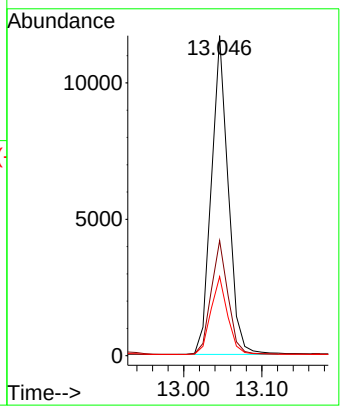


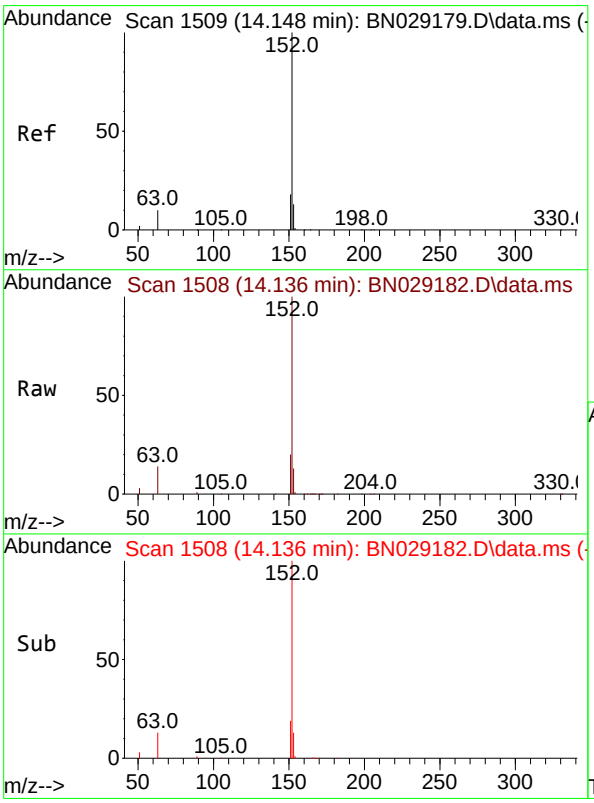
#15
2-Fluorobiphenyl
Concen: 3.338 ng
RT: 13.046 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 17501

Ion	Ratio	Lower	Upper
172	100		
171	36.0	31.4	47.0
170	24.7	22.8	34.2

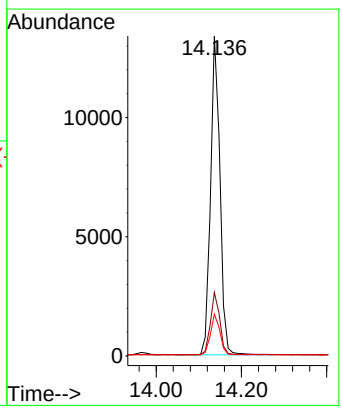


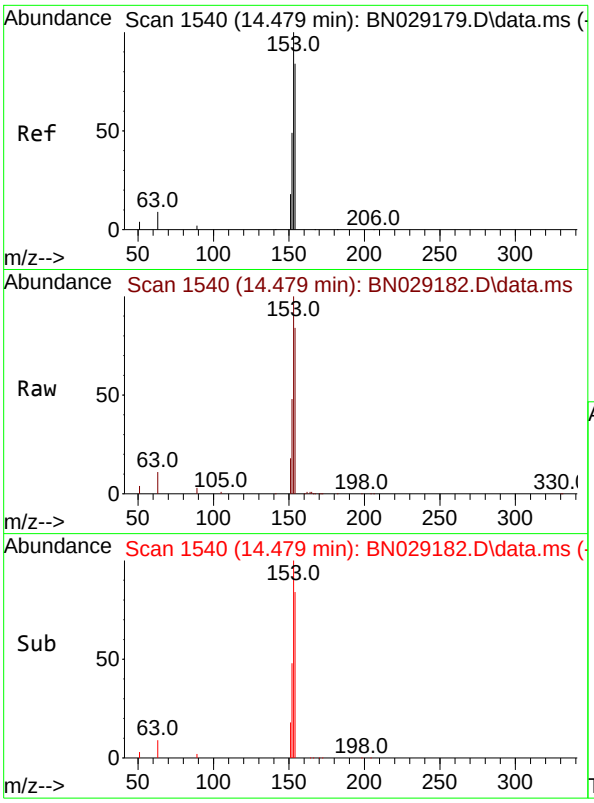


#16
Acenaphthylene
Concen: 3.326 ng
RT: 14.136 min Scan# 1508
Delta R.T. -0.011 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:152 Resp: 20401

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.1	22.7
153	12.9	10.3	15.5



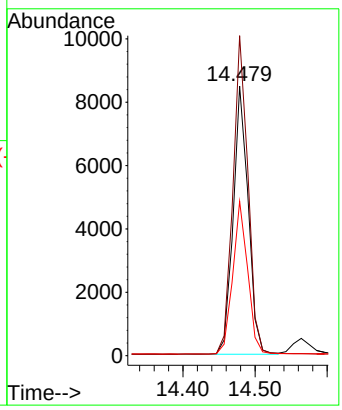


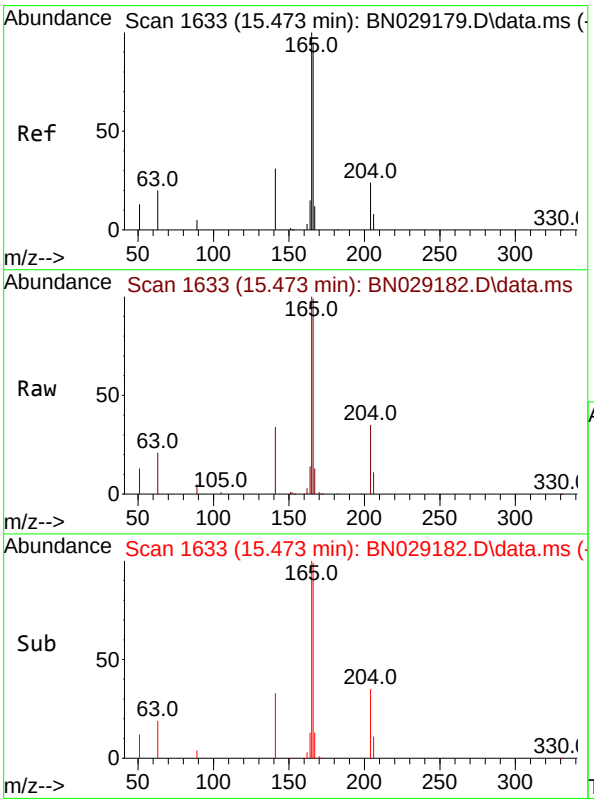
#17
Acenaphthene
Concen: 3.263 ng
RT: 14.479 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 12263

Ion	Ratio	Lower	Upper
154	100		
153	119.1	96.8	145.2
152	56.7	46.1	69.1

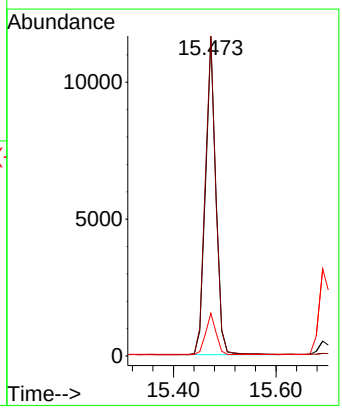


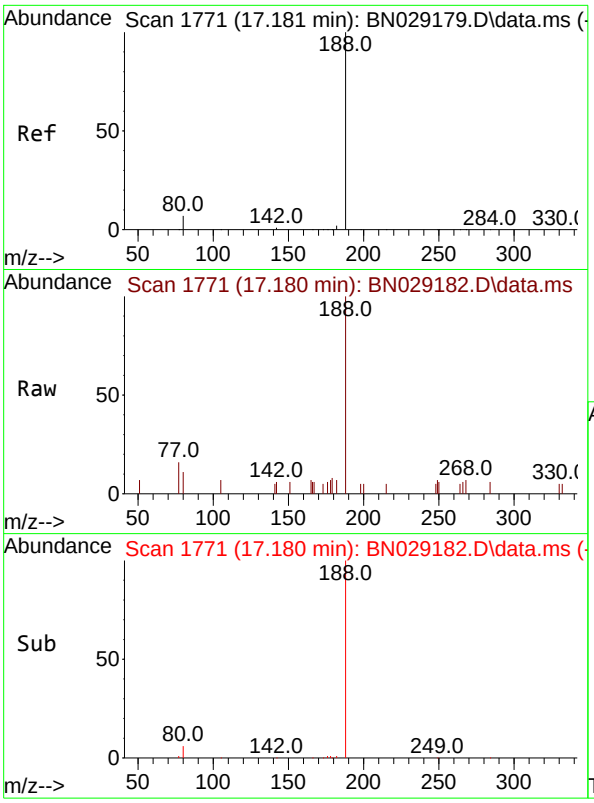


#18
Fluorene
Concen: 3.304 ng
RT: 15.473 min Scan# 1633
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:166 Resp: 17463

Ion	Ratio	Lower	Upper
166	100		
165	102.3	80.0	120.0
167	12.8	10.4	15.6



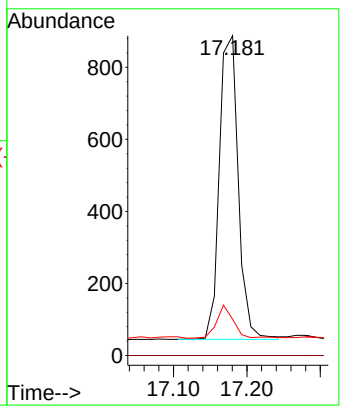


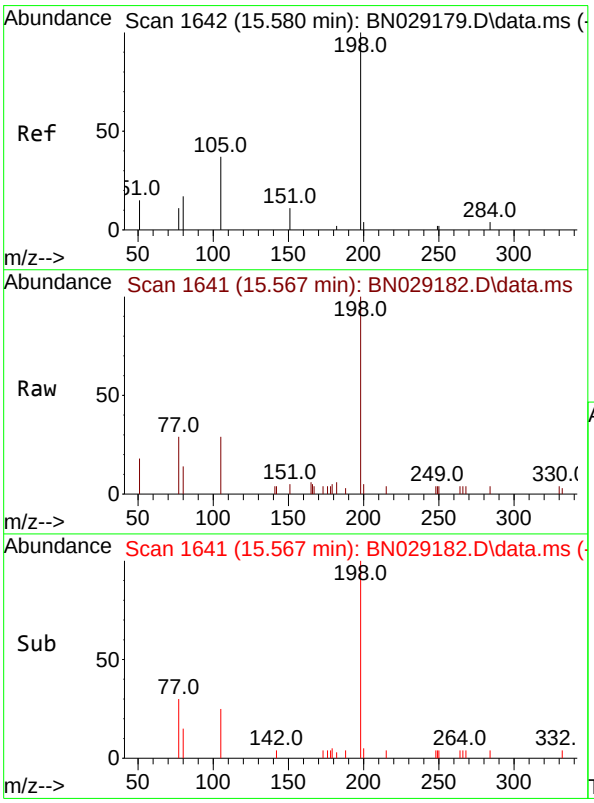
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 1511

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	8.9	13.3

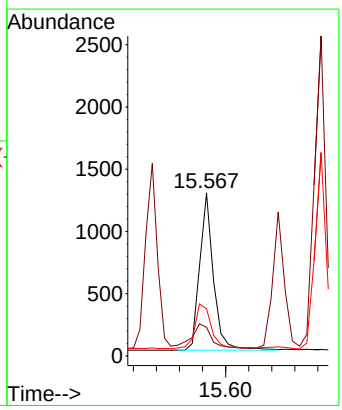


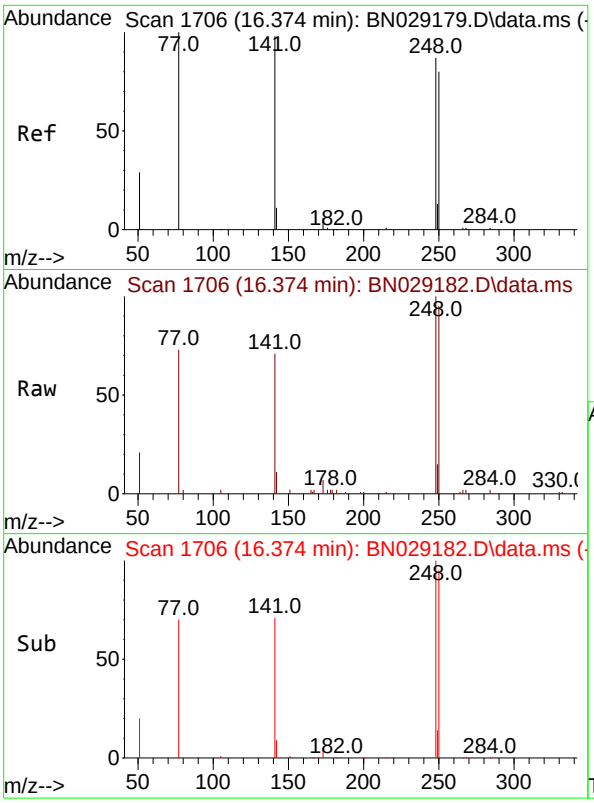


#20
4,6-Dinitro-2-methylphenol
Concen: 3.275 ng
RT: 15.567 min Scan# 1641
Delta R.T. -0.013 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:198 Resp: 2105

Ion	Ratio	Lower	Upper
198	100		
51	17.6	56.0	84.0#
105	28.9	61.6	92.4#



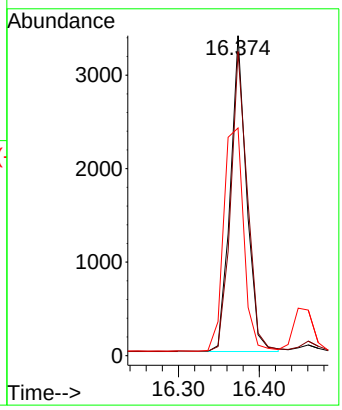


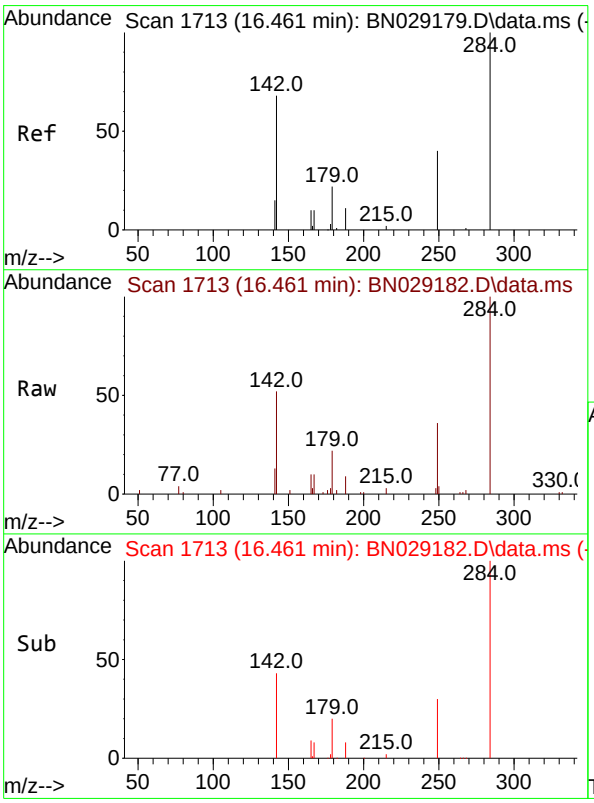
#21
4-Bromophenyl-phenylether
Concen: 3.339 ng
RT: 16.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 4746

Ion	Ratio	Lower	Upper
248	100		
250	95.1	75.7	113.5
141	71.1	89.4	134.0#

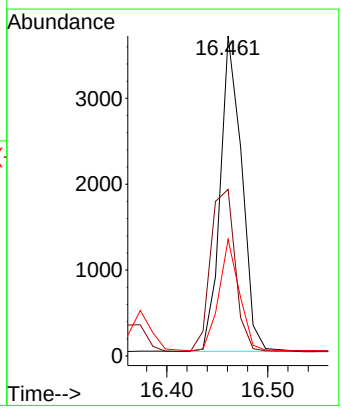


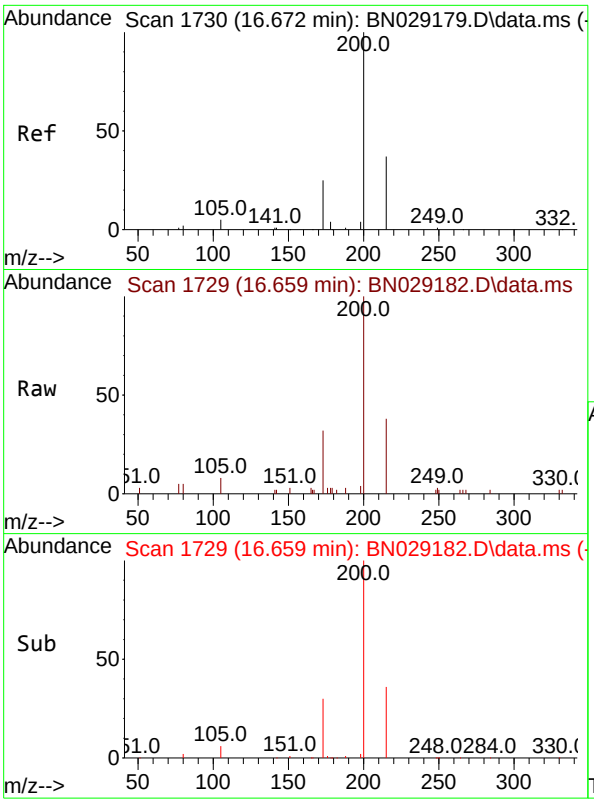


#22
Hexachlorobenzene
Concen: 3.244 ng
RT: 16.461 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:284 Resp: 5442

Ion	Ratio	Lower	Upper
284	100		
142	59.0	47.4	71.0
249	33.4	28.8	43.2



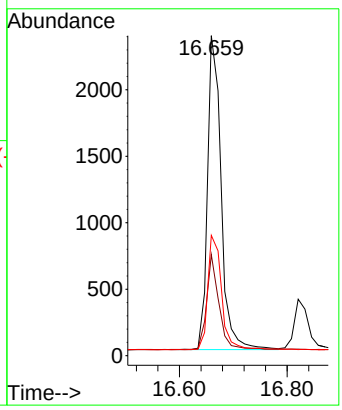


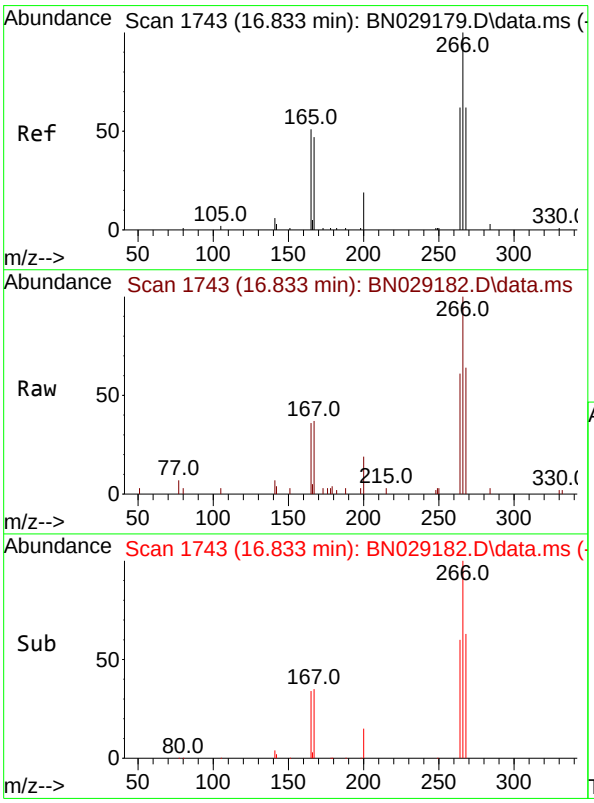
#23
Atrazine
Concen: 3.193 ng
RT: 16.659 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 4129

Ion	Ratio	Lower	Upper
200	100		
173	31.6	30.5	45.7
215	37.6	37.8	56.6#

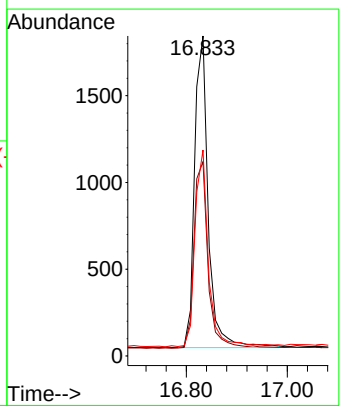


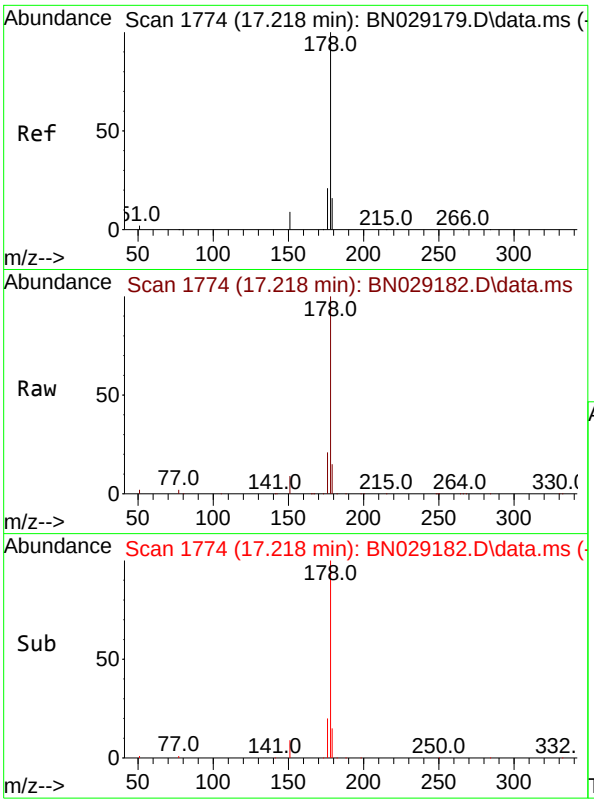


#24
Pentachlorophenol
Concen: 3.478 ng
RT: 16.833 min Scan# 1743
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:266 Resp: 3386

Ion	Ratio	Lower	Upper
266	100		
264	61.8	52.8	79.2
268	62.7	51.4	77.0



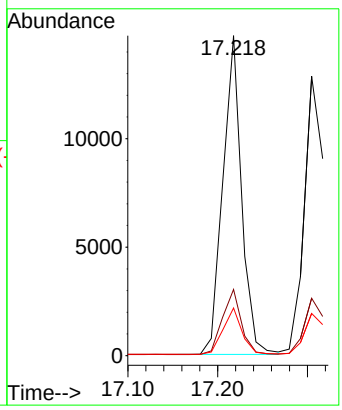


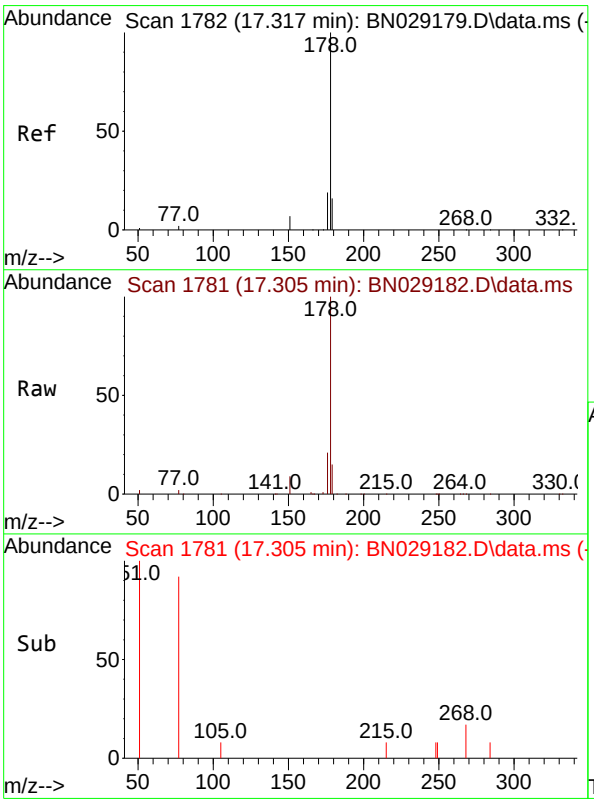
#25
Phenanthrene
Concen: 3.226 ng
RT: 17.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 21345

Ion	Ratio	Lower	Upper
178	100		
176	20.7	16.6	25.0
179	14.6	12.2	18.4

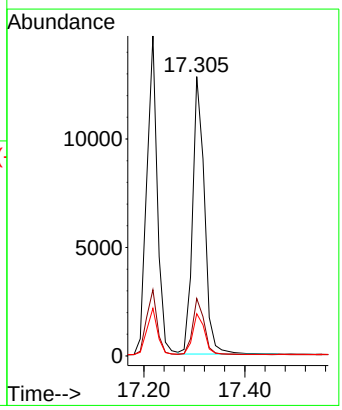


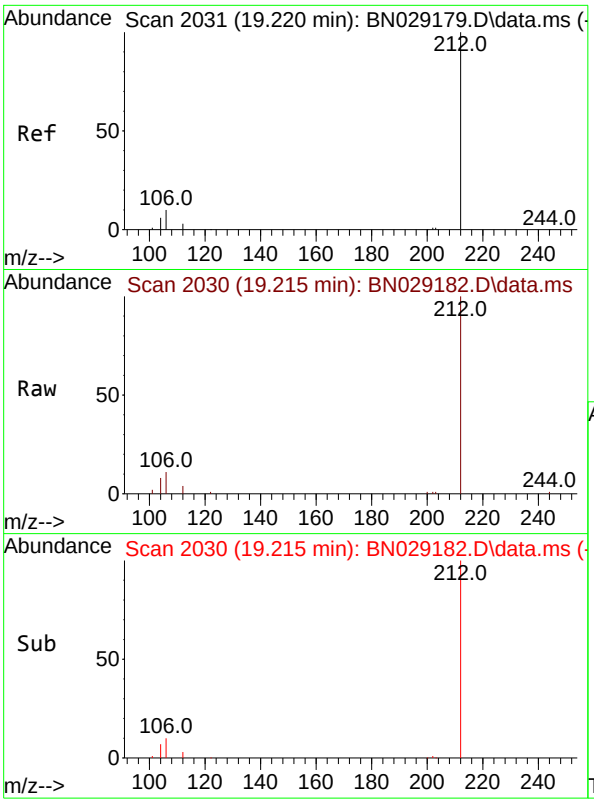


#26
Anthracene
Concen: 3.298 ng
RT: 17.305 min Scan# 1781
Delta R.T. -0.013 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:178 Resp: 20973

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	14.9	11.9	17.9



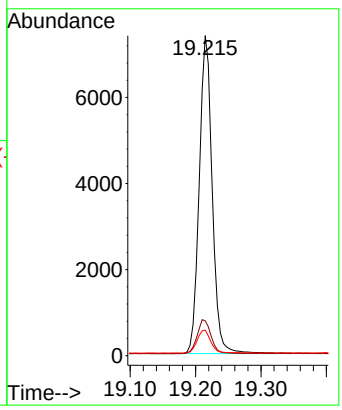


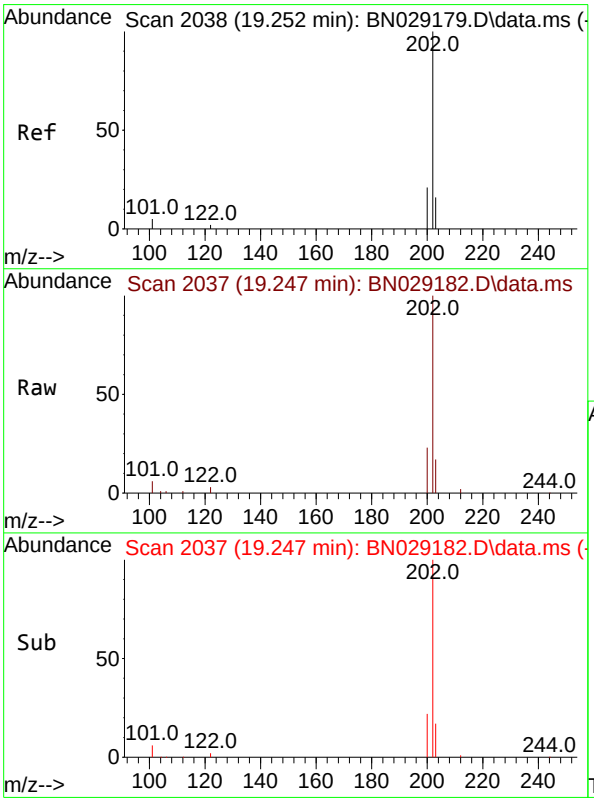
#27
Fluoranthene-d10
Concen: 3.224 ng
RT: 19.215 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 10170

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.6	14.4
104	7.8	5.8	8.6

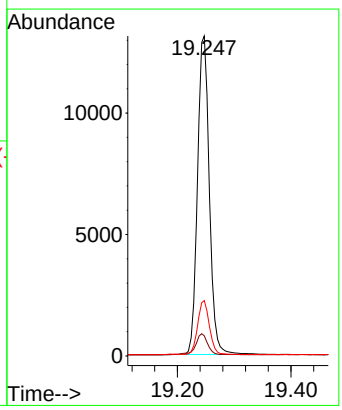


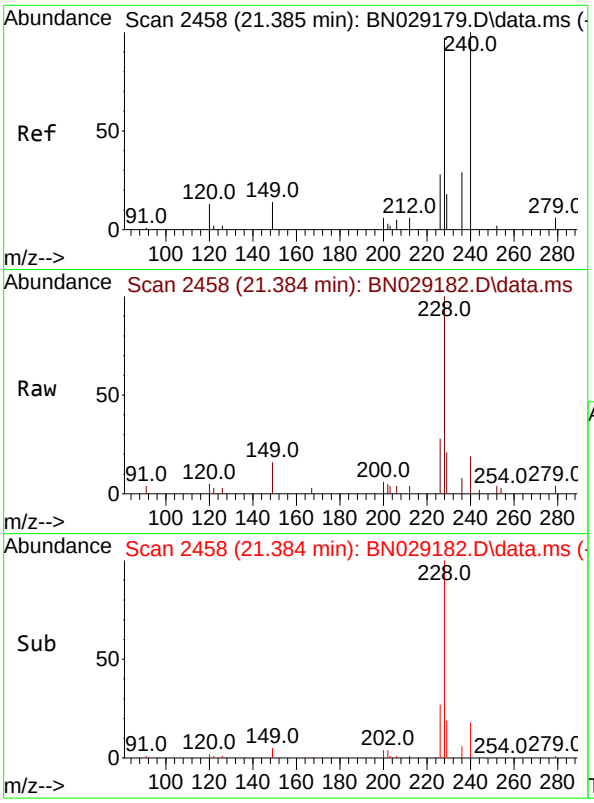


#28
Fluoranthene
Concen: 3.194 ng
RT: 19.247 min Scan# 2037
Delta R.T. -0.005 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:202 Resp: 18927

Ion	Ratio	Lower	Upper
202	100		
101	6.7	4.5	6.7#
203	16.8	13.7	20.5



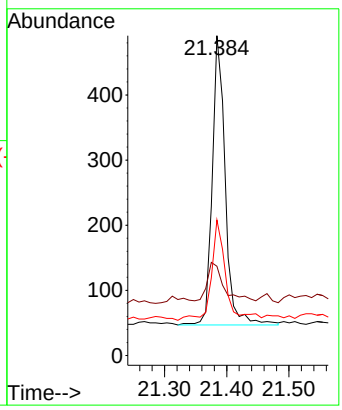


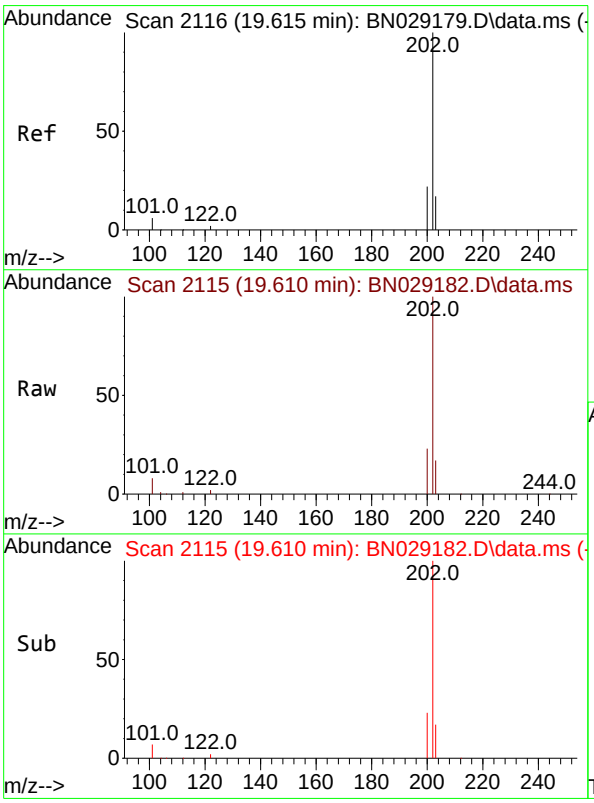
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 640

Ion	Ratio	Lower	Upper
240	100		
120	27.9	23.9	35.9
236	42.4	31.3	46.9

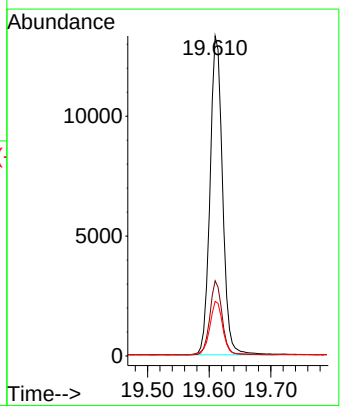


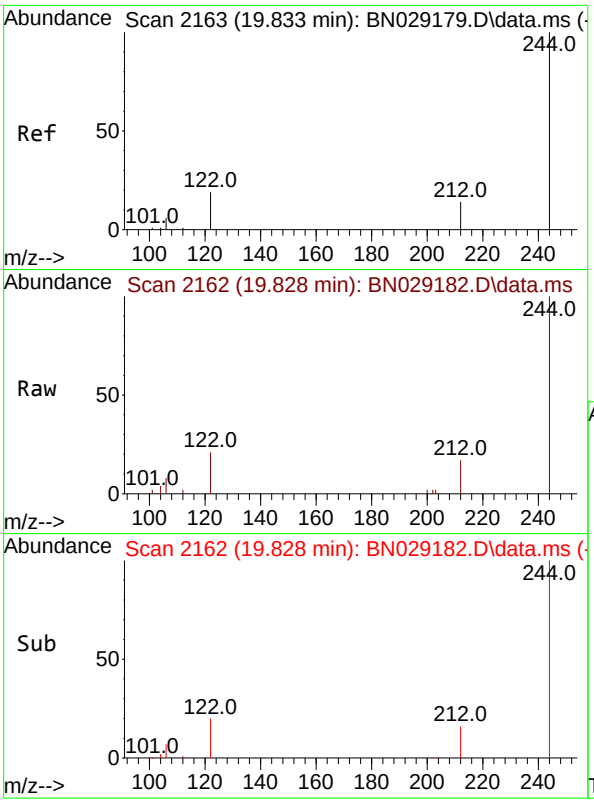


#30
Pyrene
Concen: 3.101 ng
RT: 19.610 min Scan# 2115
Delta R.T. -0.005 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:202 Resp: 18685

Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.4	26.2
203	17.4	13.8	20.8



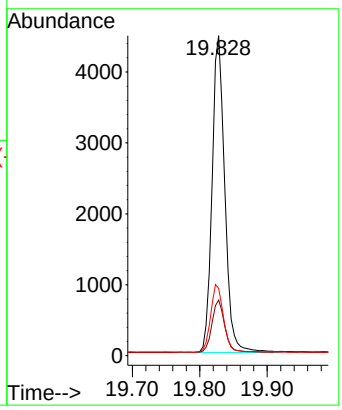


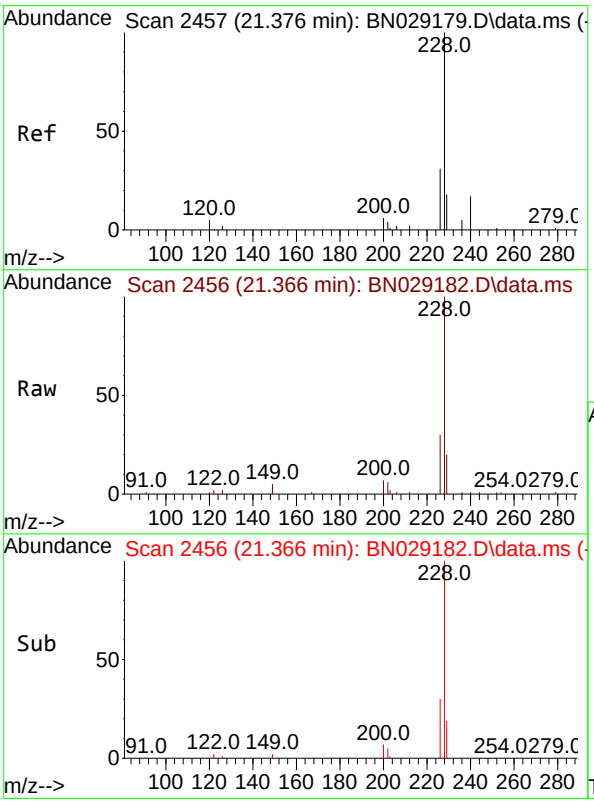
#31
Terphenyl-d14
Concen: 3.139 ng
RT: 19.828 min Scan# 21
Delta R.T. -0.005 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 5851

Ion	Ratio	Lower	Upper
244	100		
212	17.4	18.9	28.3#
122	21.0	22.5	33.7#

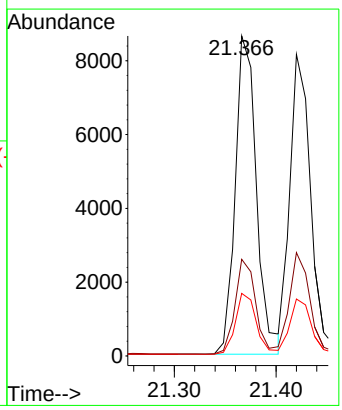


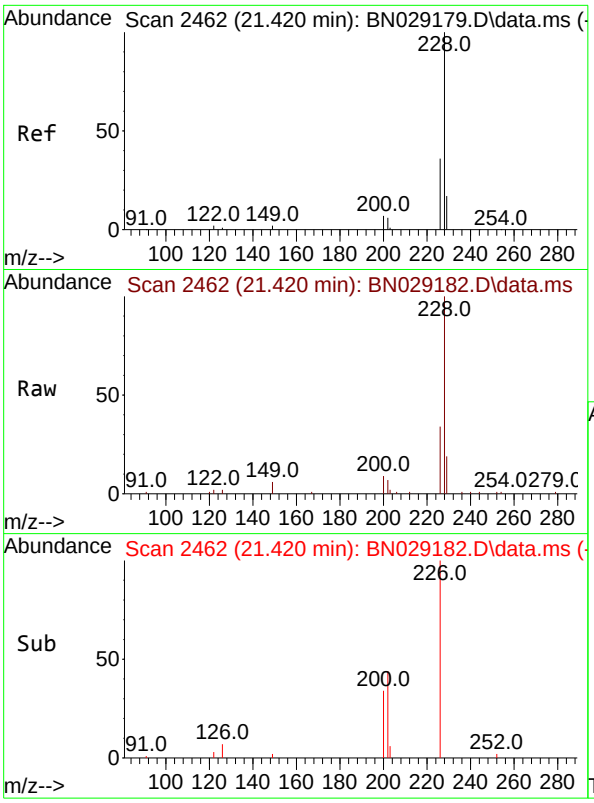


#32
Benzo(a)anthracene
Concen: 3.432 ng
RT: 21.366 min Scan# 2456
Delta R.T. -0.009 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:228 Resp: 12473

Ion	Ratio	Lower	Upper
228	100		
226	30.2	27.8	41.6
229	19.6	18.0	27.0



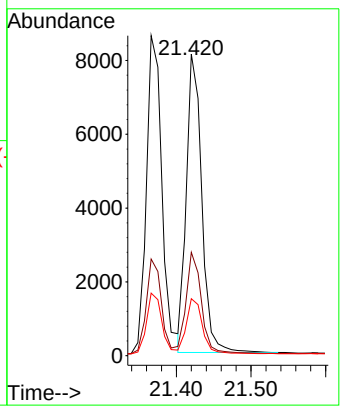


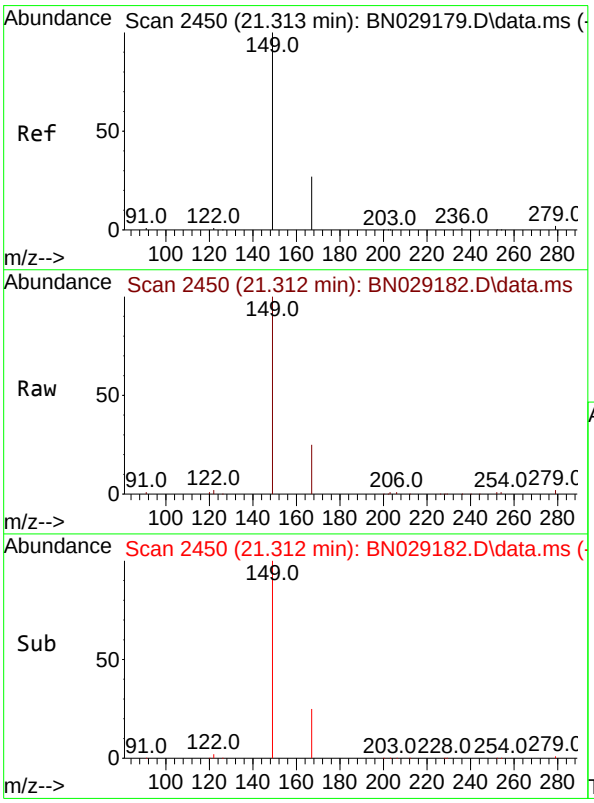
#33
Chrysene
Concen: 3.277 ng
RT: 21.420 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 11596

Ion	Ratio	Lower	Upper
228	100		
226	34.3	32.0	48.0
229	18.9	17.7	26.5

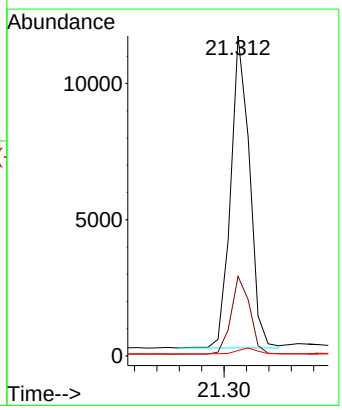


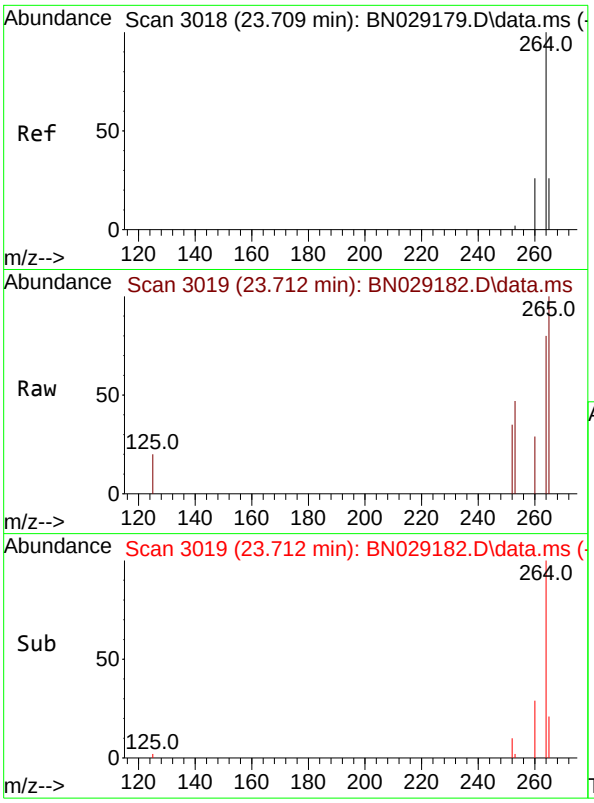


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.892 ng
RT: 21.312 min Scan# 2450
Delta R.T. -0.001 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:149 Resp: 13390

Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.8	31.2
279	2.1	1.7	2.5



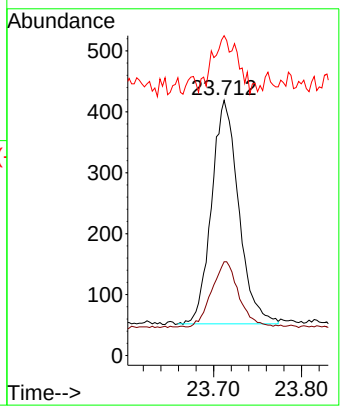


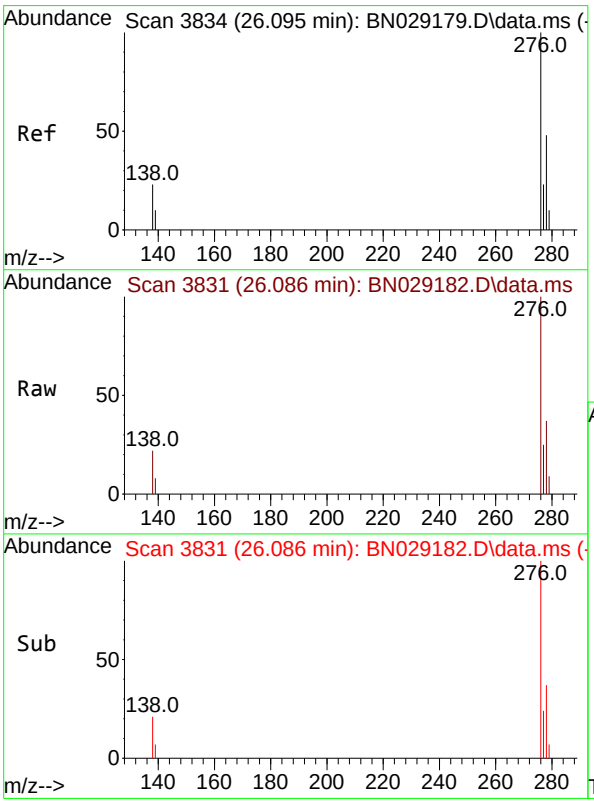
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.712 min Scan# 3
Delta R.T. 0.002 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 786

Ion	Ratio	Lower	Upper
264	100		
260	36.8	27.1	40.7
265	125.3	99.4	149.2

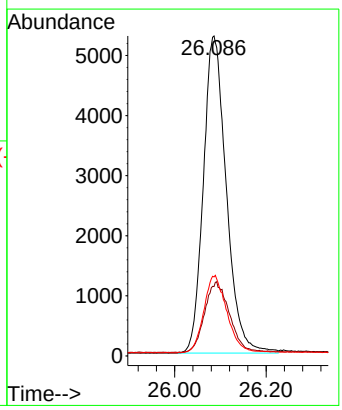


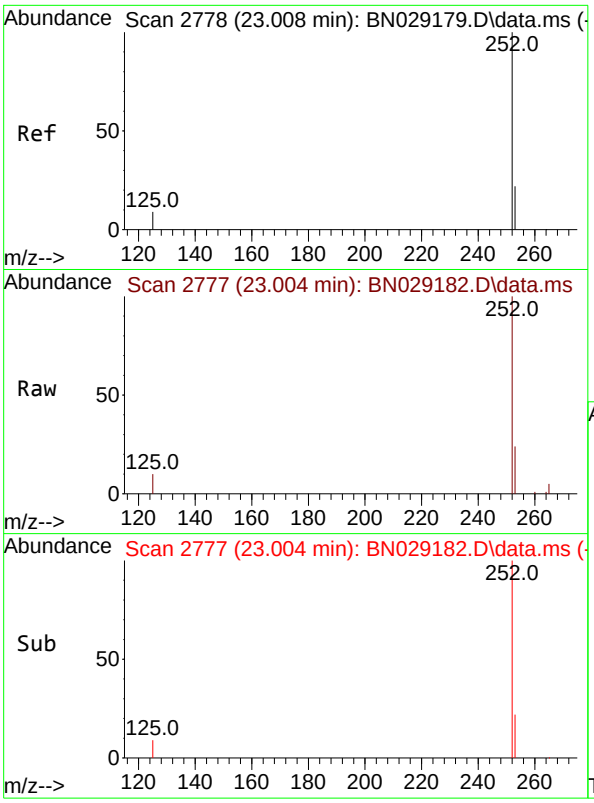


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.475 ng
RT: 26.086 min Scan# 3831
Delta R.T. -0.009 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:276 Resp: 18390

Ion	Ratio	Lower	Upper
276	100		
138	24.1	6.9	10.3#
277	24.5	18.4	27.6



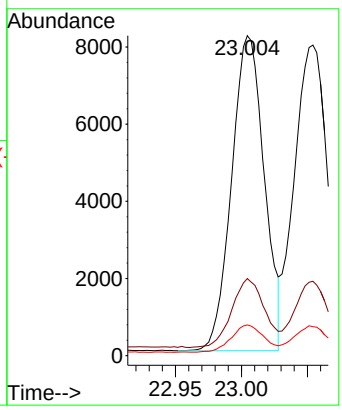


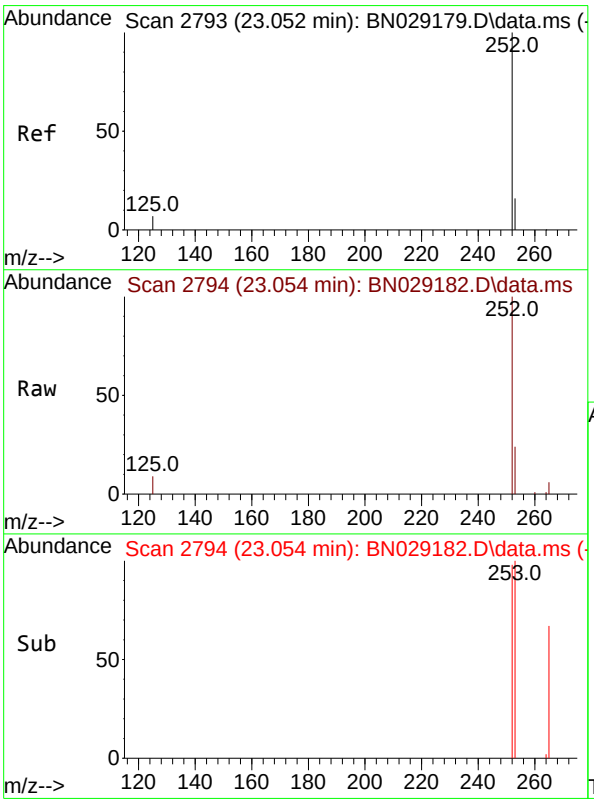
#37
Benzo(b)fluoranthene
Concen: 3.400 ng
RT: 23.004 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 14048

Ion	Ratio	Lower	Upper
252	100		
253	24.1	33.4	50.0#
125	9.6	14.6	21.8#

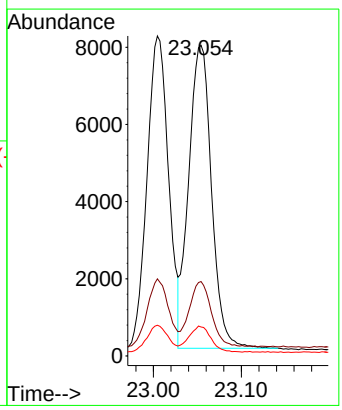


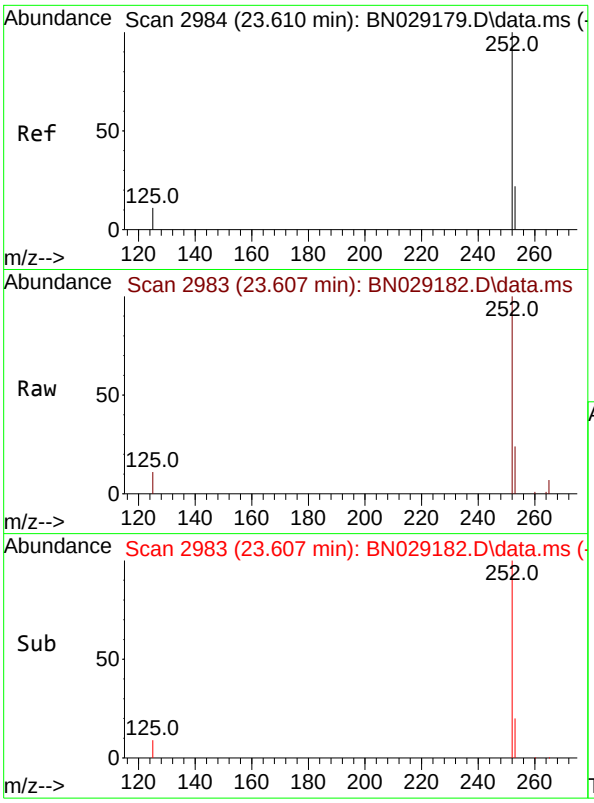


#38
Benzo(k)fluoranthene
Concen: 3.369 ng
RT: 23.054 min Scan# 2794
Delta R.T. 0.002 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:252 Resp: 14232

Ion	Ratio	Lower	Upper
252	100		
253	23.9	33.3	49.9#
125	9.3	14.0	21.0#



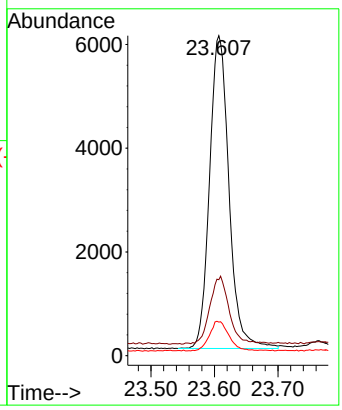


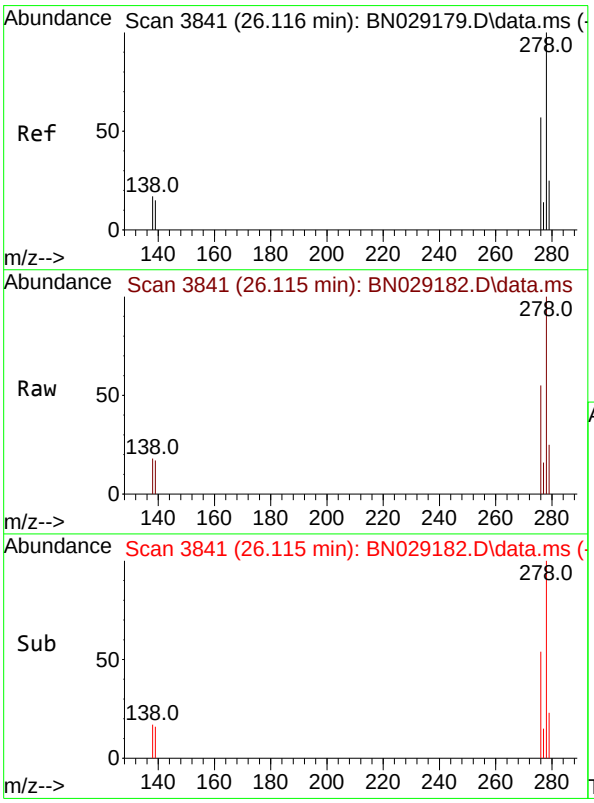
#39
Benzo(a)pyrene
Concen: 3.397 ng
RT: 23.607 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 12803

Ion	Ratio	Lower	Upper
252	100		
253	23.7	39.7	59.5#
125	10.5	17.9	26.9#

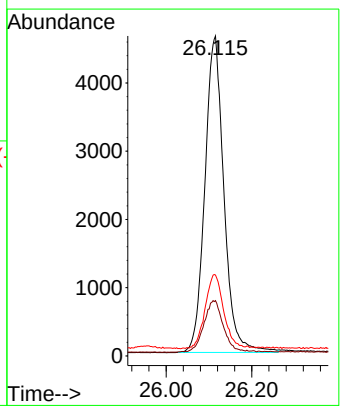


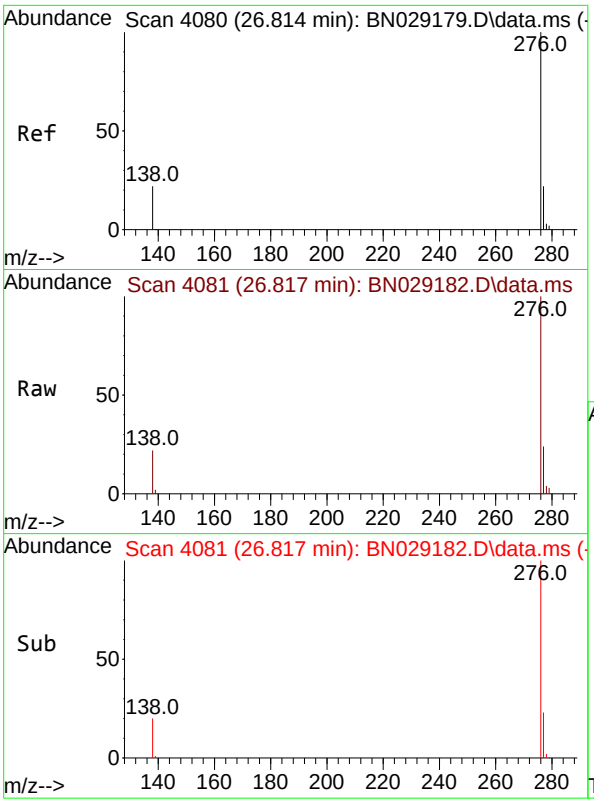


#40
Dibenzo(a,h)anthracene
Concen: 3.553 ng
RT: 26.115 min Scan# 3841
Delta R.T. -0.000 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Tgt Ion:278 Resp: 14306

Ion	Ratio	Lower	Upper
278	100		
139	17.3	21.8	32.6#
279	25.3	39.9	59.9#





#41
Benzo(g,h,i)perylene
Concen: 3.407 ng
RT: 26.817 min Scan# 4
Delta R.T. 0.002 min
Lab File: BN029182.D
Acq: 22 Dec 2023 18:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 15354

Ion	Ratio	Lower	Upper
276	100		
277	23.9	24.2	36.4#
138	21.5	25.5	38.3#