Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110823\
Data File : BN028510.D
Acq On : 08 Nov 2023 22:07
Operator : MA/JU
Sample : 05196-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Quant Time: Nov 08 23:30:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 08 00:27:19 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.710	152	8236	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	26349	0.400	ng		#-0.01
13) Acenaphthene-d10	14.353	164	15205	0.400	ng		-0.01
19) Phenanthrene-d10	17.109	188	30152	0.400	ng		0.00
29) Chrysene-d12	21.320	240	19992	0.400	ng		# 0.00
35) Perylene-d12	23.637	264	18071	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	7116	0.289	ng		0.00
5) Phenol-d6	6.879	99	9070	0.287	ng		0.00
8) Nitrobenzene-d5	8.864	82	5339	0.227	ng		0.00
11) 2-Methylnaphthalene-d10	12.098	152	11854	0.259	ng		0.00
14) 2,4,6-Tribromophenol	15.855	330	1784	0.209	ng		0.00
15) 2-Fluorobiphenyl	12.985	172	15968	0.239	ng		0.00
27) Fluoranthene-d10	19.148	212	22285	0.242	ng		0.00
31) Terphenyl-d14	19.761	244	14313	0.269	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	3508	0.354	ng	#	67
3) n-Nitrosodimethylamine	3.507	42	4589	0.403	ng		95
6) bis(2-Chloroethyl)ether	7.139	93	11529	0.440	ng		99
9) Naphthalene	10.551	128	41659	0.506	ng		100
10) Hexachlorobutadiene	10.840	225	5783	0.396	ng	#	98
12) 2-Methylnaphthalene	12.170	142	26331	0.467	ng		99
16) Acenaphthylene	14.075	152	49976	0.625	ng		99
17) Acenaphthene	14.417	154	36488	0.684	ng		98
18) Fluorene	15.412	166	40336	0.535	ng		99
20) 4,6-Dinitro-2-methylph...	15.487	198	1731	0.424	ng	#	31
21) 4-Bromophenyl-phenylether	16.302	248	8569	0.425	ng	#	75
22) Hexachlorobenzene	16.414	284	8812	0.418	ng		100
23) Atrazine	16.575	200	8113	0.457	ng	#	88
24) Pentachlorophenol	16.762	266	4579	0.507	ng		100
25) Phenanthrene	17.146	178	306717	3.067	ng		99
26) Anthracene	17.233	178	93308	1.018	ng		98
28) Fluoranthene	19.181	202	597868	4.987	ng		100
30) Pyrene	19.543	202	543192	5.705	ng	#	96
32) Benzo(a)anthracene	21.302	228	294636	3.526	ng		98
33) Chrysene	21.356	228	273996	3.284	ng		99
34) Bis(2-ethylhexyl)phtha...	21.257	149	154350	2.986	ng		99
36) Indeno(1,2,3-cd)pyrene	26.006	276	171606	2.354	ng		97
37) Benzo(b)fluoranthene	22.939	252	331089	4.446	ng		98
39) Benzo(a)pyrene	23.433	252	144964	2.278	ng		98
40) Dibenzo(a,h)anthracene	26.032	278	60731	1.069	ng		96
41) Benzo(g,h,i)perylene	26.733	276	167619	2.663	ng		99

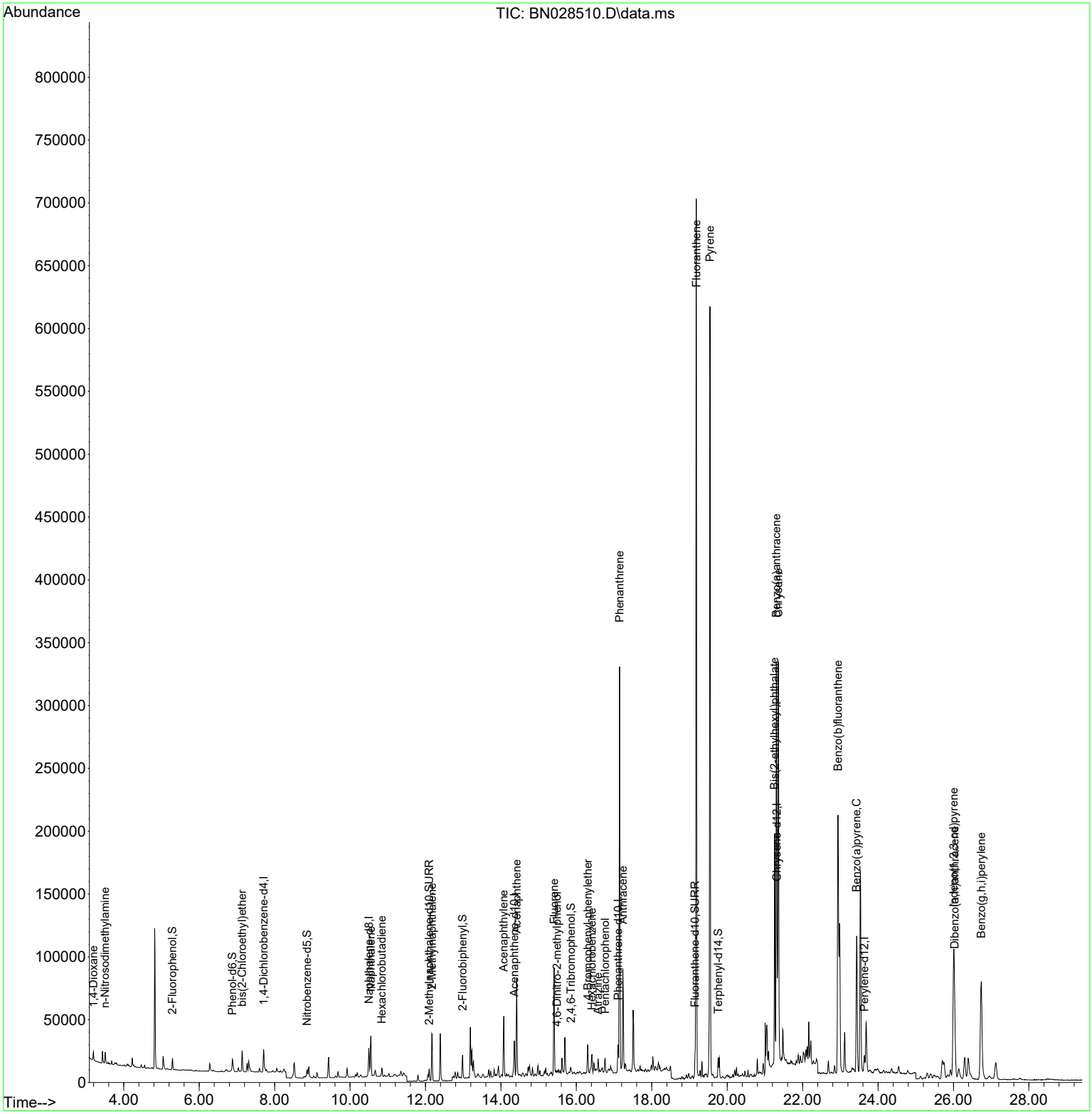
(#) = qualifier out of range (m) = manual integration (+) = signals summed

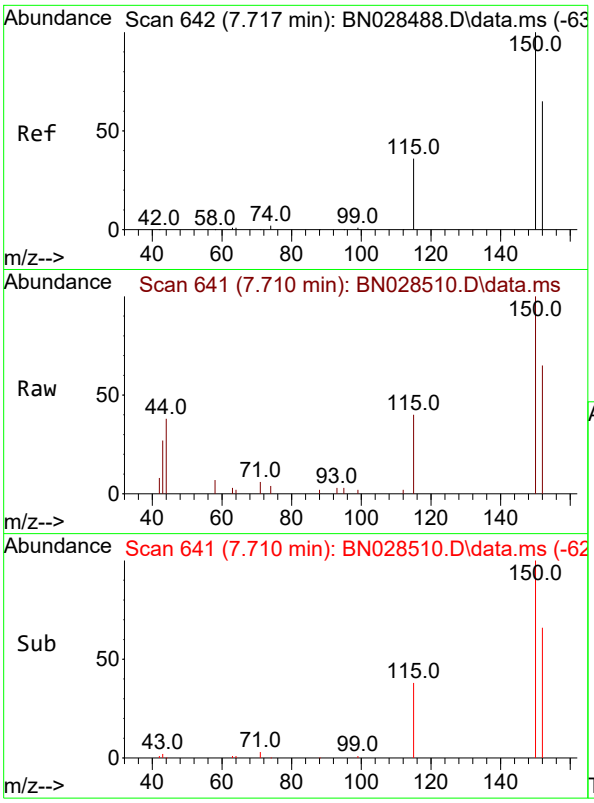
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110823\
Data File : BN028510.D
Acq On : 08 Nov 2023 22:07
Operator : MA/JU
Sample : 05196-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Quant Time: Nov 08 23:30:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 08 00:27:19 2023
Response via : Initial Calibration



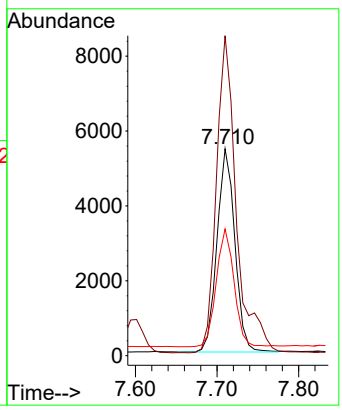


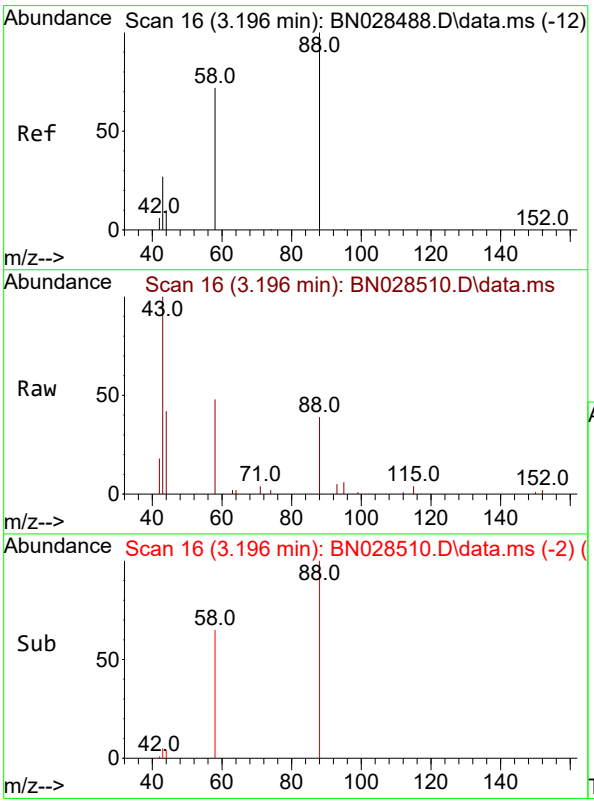
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:152 Resp: 8236

Ion	Ratio	Lower	Upper
152	100		
150	154.7	122.5	183.7
115	61.3	47.5	71.3

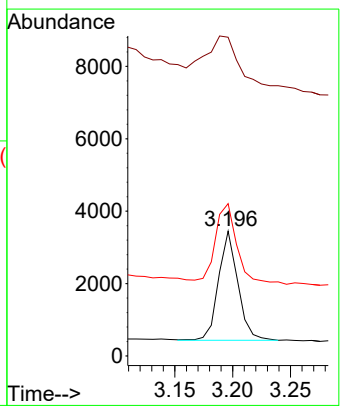


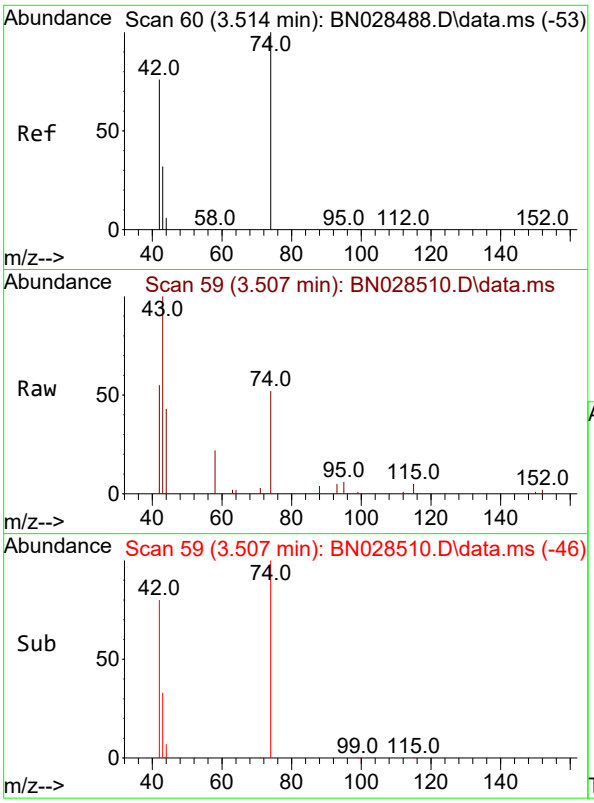


#2
1,4-Dioxane
Concen: 0.354 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion: 88 Resp: 3508

Ion	Ratio	Lower	Upper
88	100		
43	83.0	29.0	43.4#
58	83.8	60.2	90.2



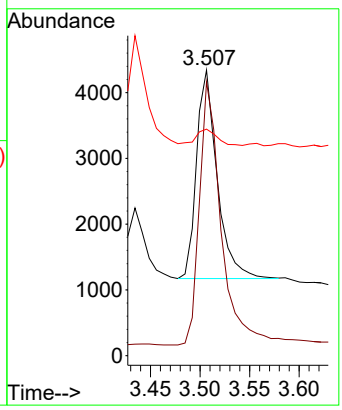


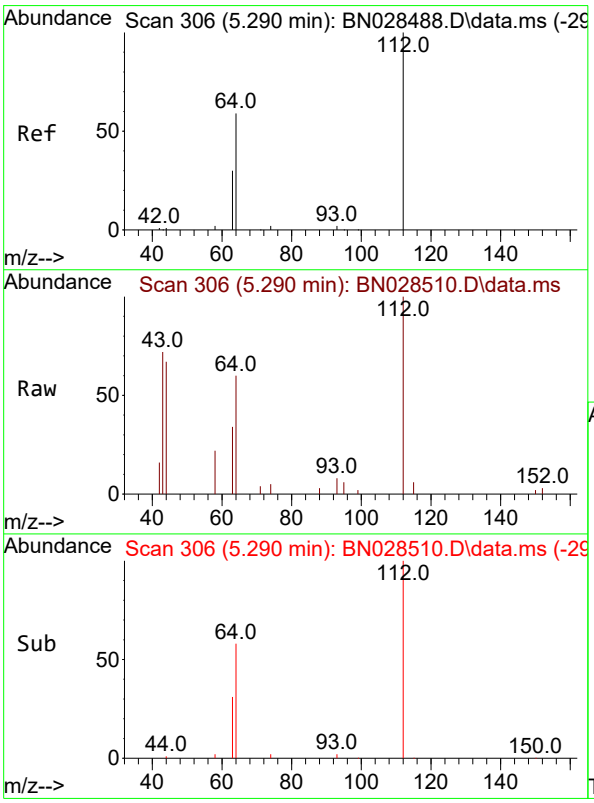
#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.507 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion: 42 Resp: 4589

Ion	Ratio	Lower	Upper
42	100		
74	132.0	100.8	151.2
44	7.9	7.3	10.9

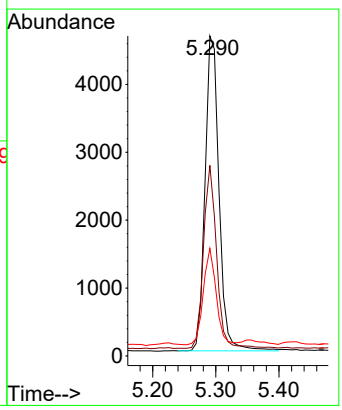


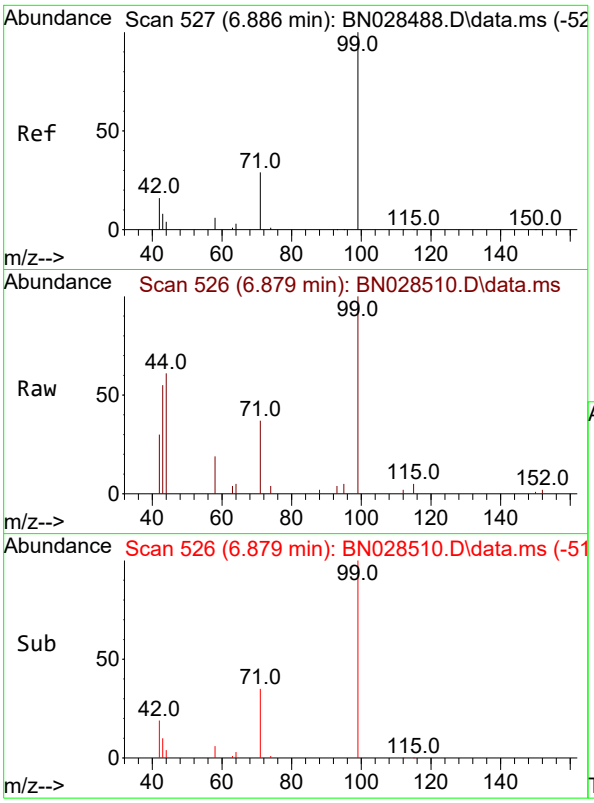


#4
2-Fluorophenol
Concen: 0.289 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:112 Resp: 7116

Ion	Ratio	Lower	Upper
112	100		
64	54.7	44.6	67.0
63	28.1	23.3	34.9



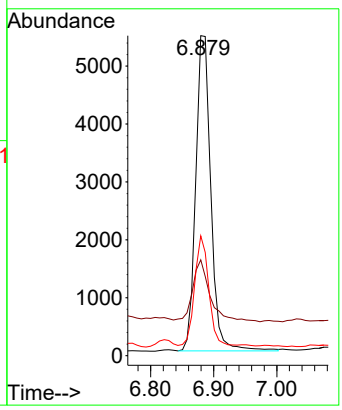


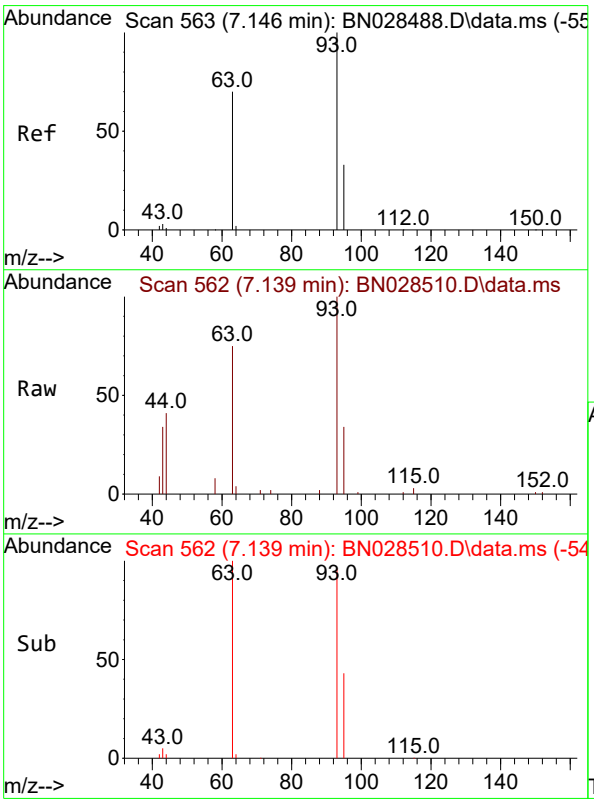
#5
Phenol-d6
Concen: 0.287 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion: 99 Resp: 9070

Ion	Ratio	Lower	Upper
99	100		
42	22.7	15.8	23.8
71	32.3	25.1	37.7

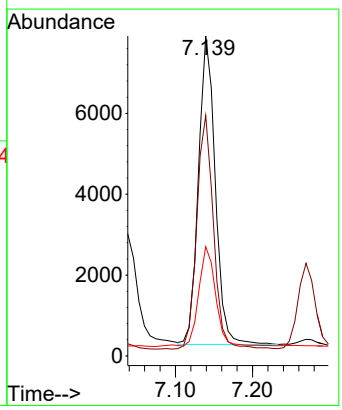


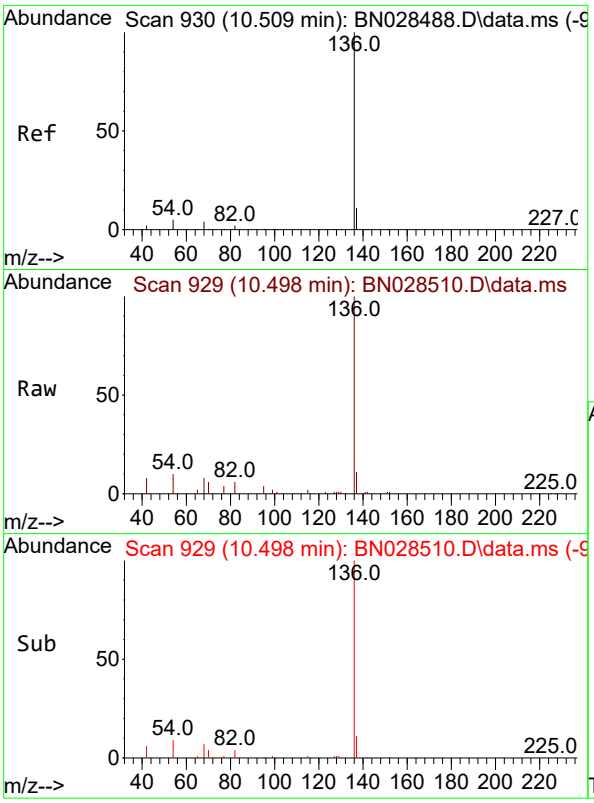


#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.007 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion: 93 Resp: 11529

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.9	91.3
95	33.1	26.2	39.2



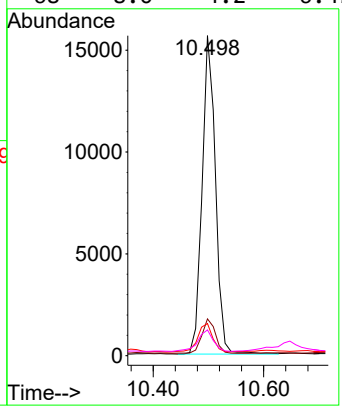


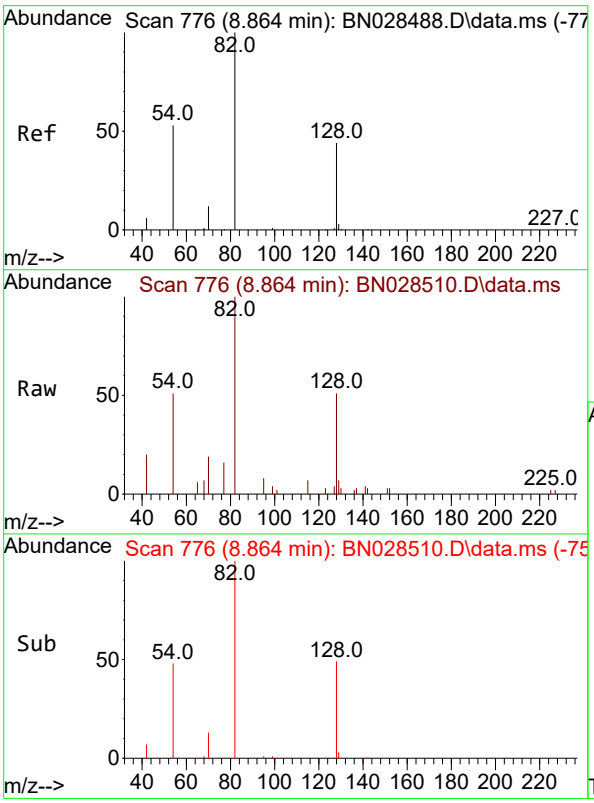
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:136 Resp: 26349

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.4
54	10.1	5.1	7.7#
68	8.0	4.2	6.4#

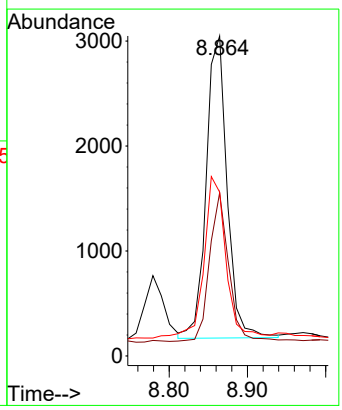


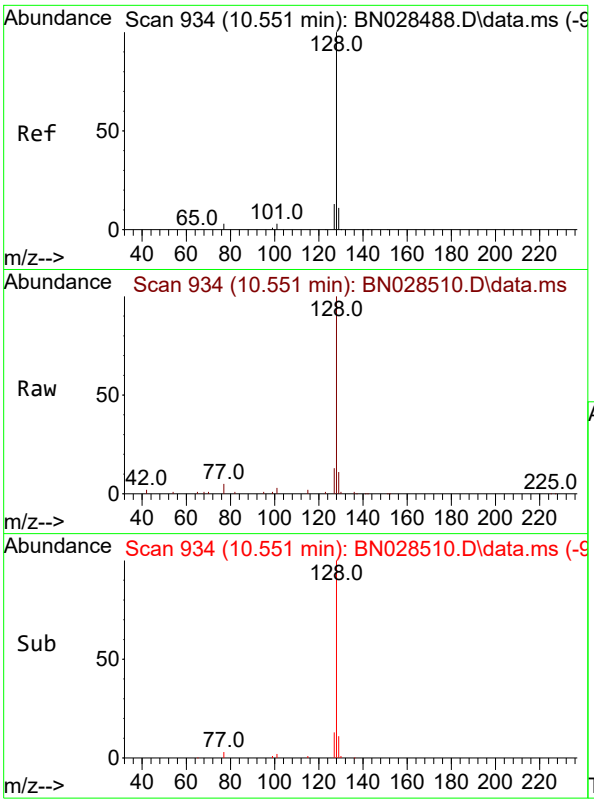


#8
Nitrobenzene-d5
Concen: 0.227 ng
RT: 8.864 min Scan# 776
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion: 82 Resp: 5339

Ion	Ratio	Lower	Upper
82	100		
128	51.0	36.5	54.7
54	51.2	43.8	65.8



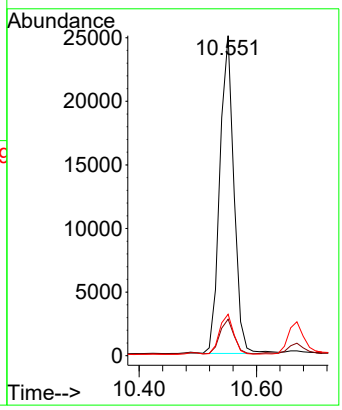


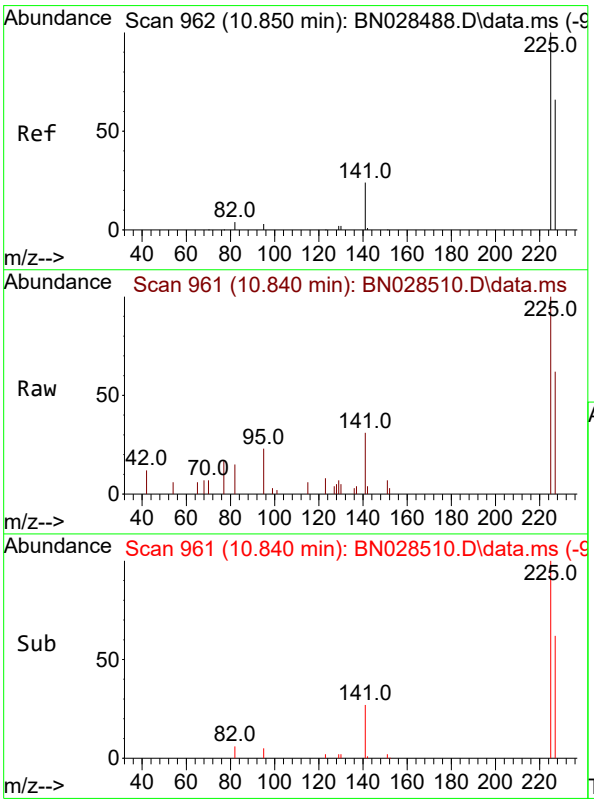
#9
Naphthalene
Concen: 0.506 ng
RT: 10.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:128 Resp: 41659

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.0	10.6	15.8

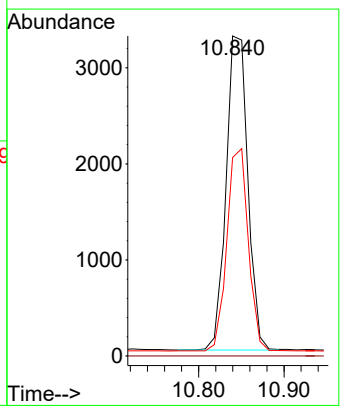


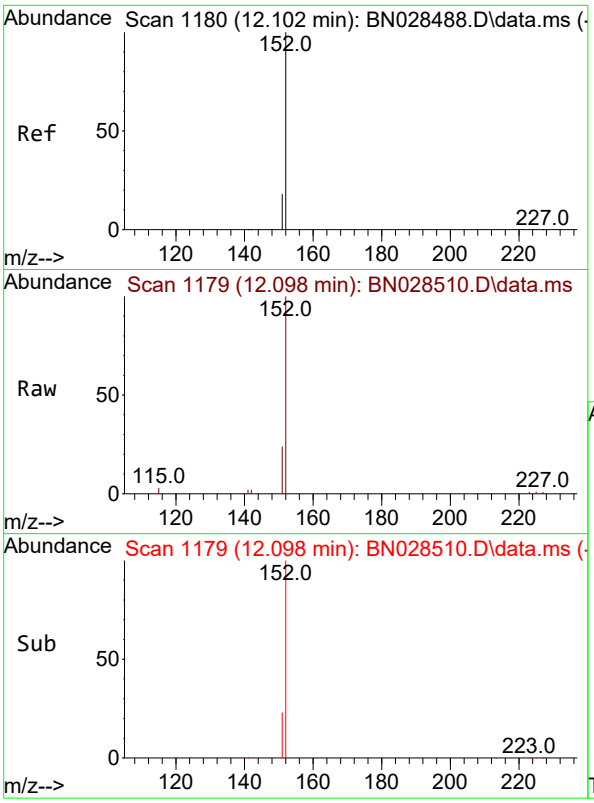


#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:225 Resp: 5783

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.9	77.9



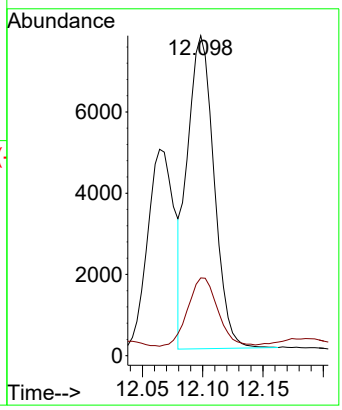


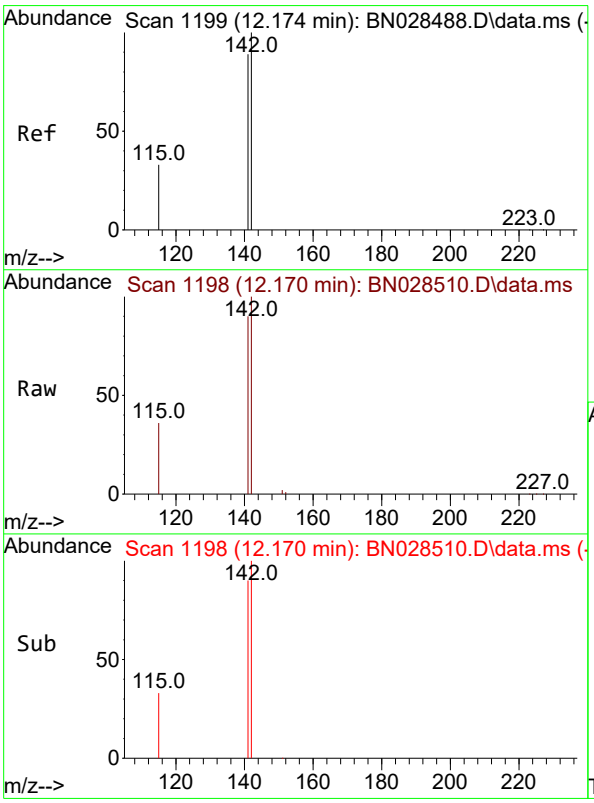
#11
2-Methylnaphthalene-d10
Concen: 0.259 ng
RT: 12.098 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:152 Resp: 11854

Ion	Ratio	Lower	Upper
152	100		
151	24.9	16.1	24.1#

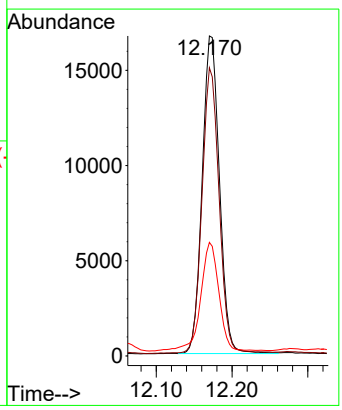


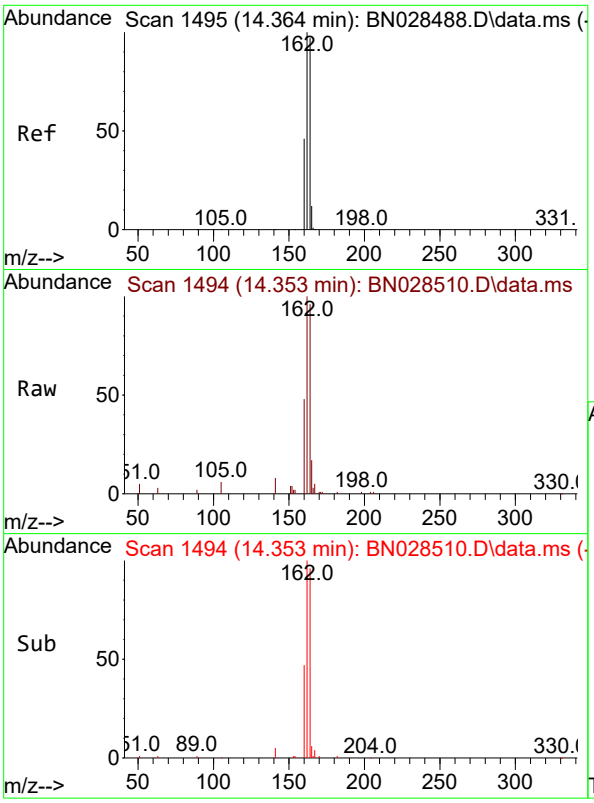


#12
2-Methylnaphthalene
Concen: 0.467 ng
RT: 12.170 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:142 Resp: 26331

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.3	106.9
115	35.5	27.6	41.4



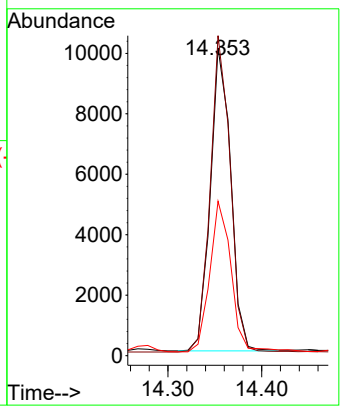


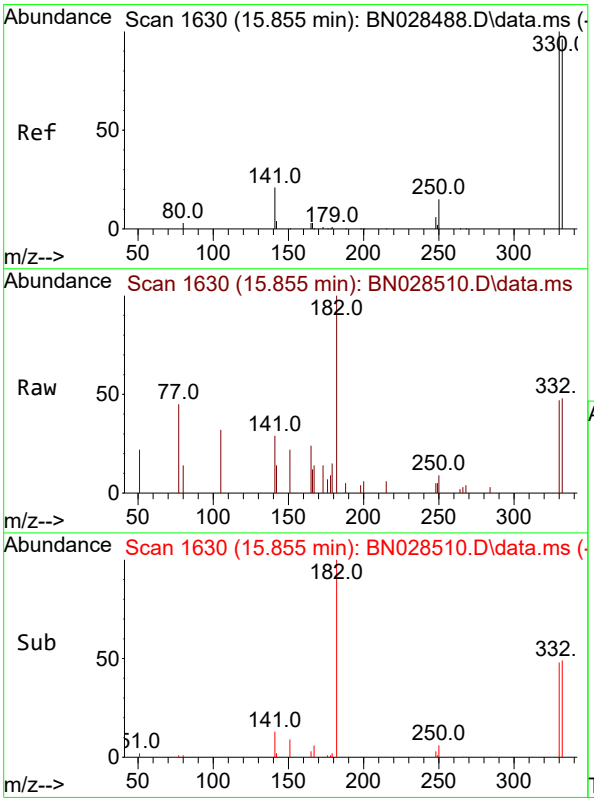
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.353 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:164 Resp: 15205

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.5	123.7
160	50.1	38.1	57.1

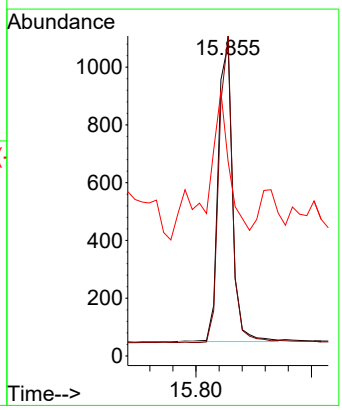


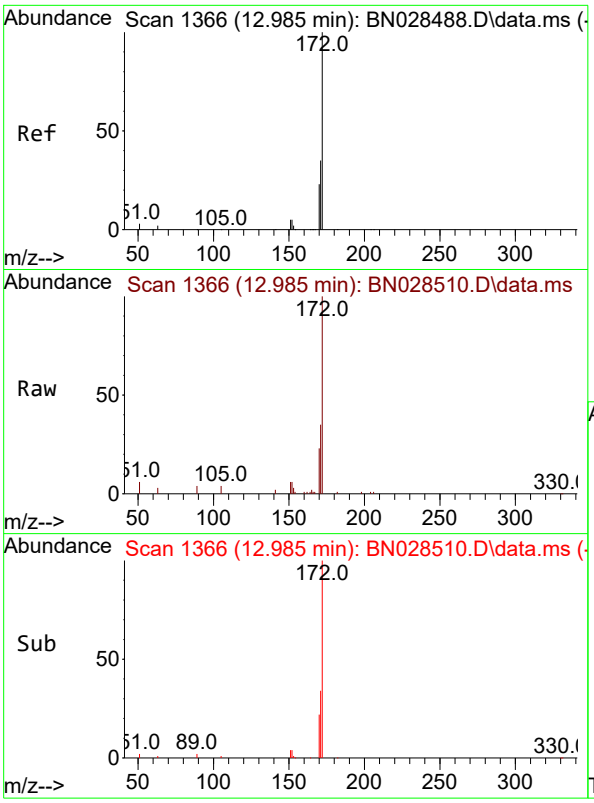


#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.855 min Scan# 1630
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:330 Resp: 1784

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.0	115.4
141	53.1	32.6	49.0#



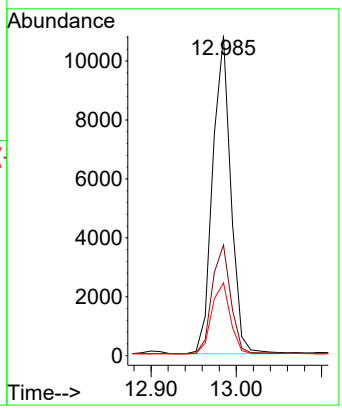


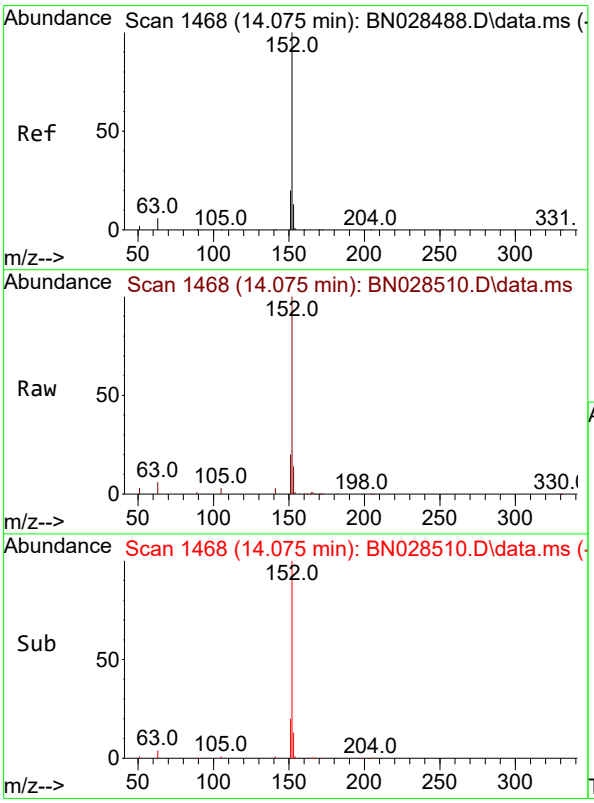
#15
2-Fluorobiphenyl
Concen: 0.239 ng
RT: 12.985 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:172 Resp: 15968

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.9	41.9
170	22.8	18.9	28.3

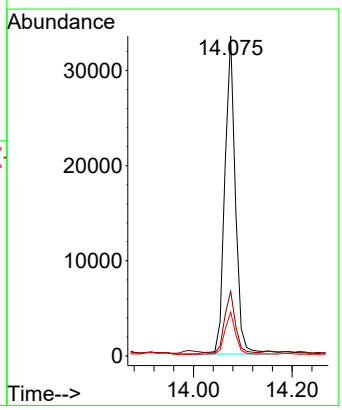


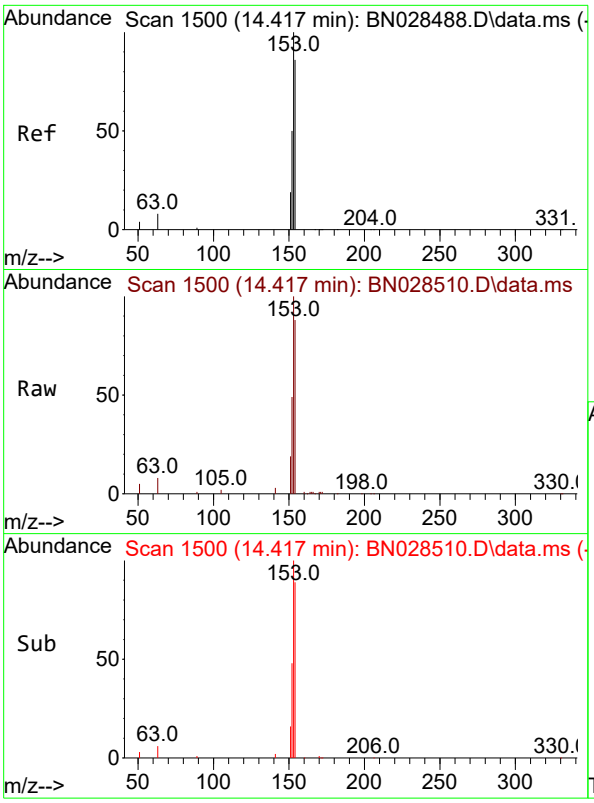


#16
Acenaphthylene
Concen: 0.625 ng
RT: 14.075 min Scan# 1468
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:152 Resp: 49976

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.0
153	13.7	10.5	15.7



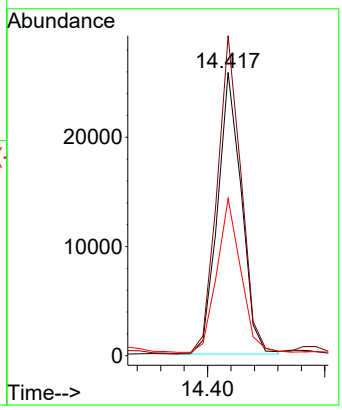


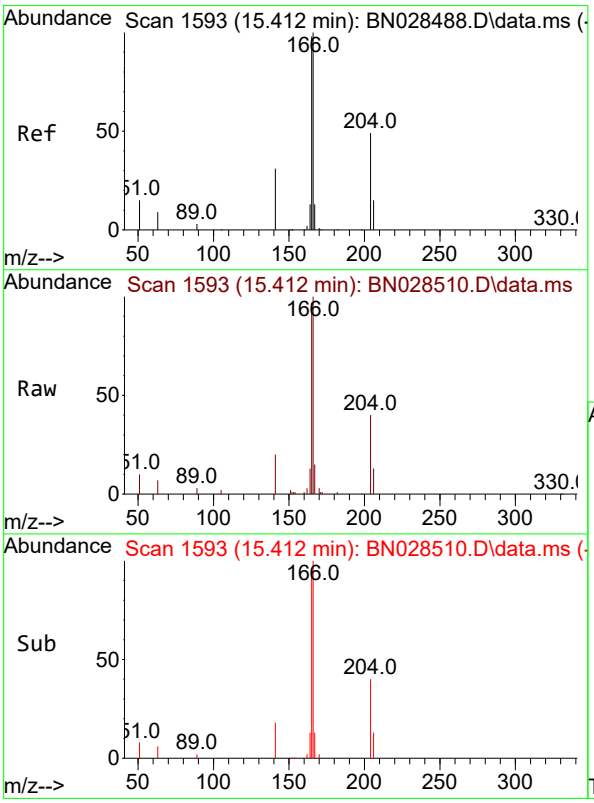
#17
Acenaphthene
Concen: 0.684 ng
RT: 14.417 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:154 Resp: 36488

Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.0	138.0
152	54.7	45.4	68.0

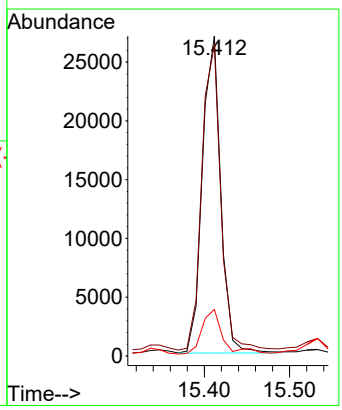


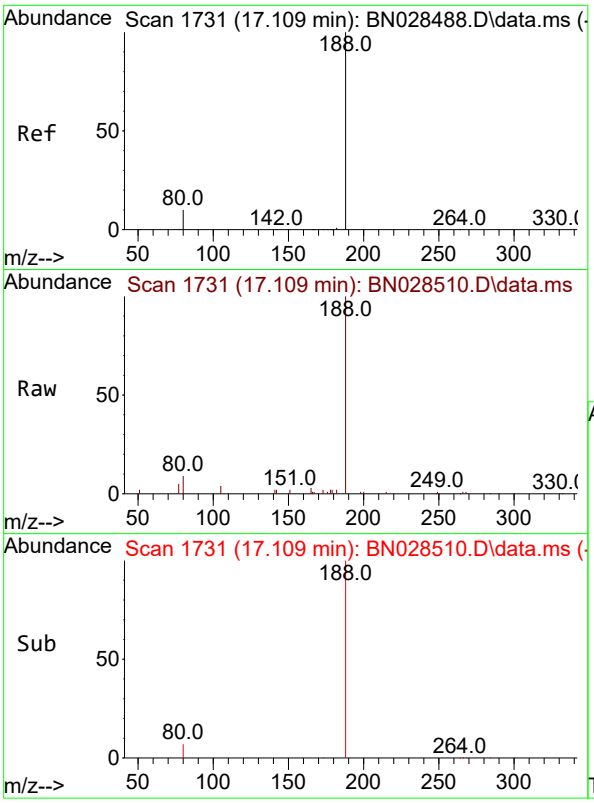


#18
Fluorene
Concen: 0.535 ng
RT: 15.412 min Scan# 1593
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:166 Resp: 40336

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.5	117.7
167	15.9	10.6	16.0



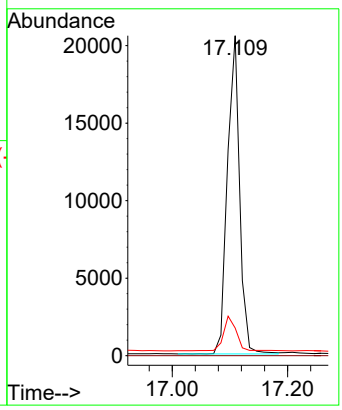


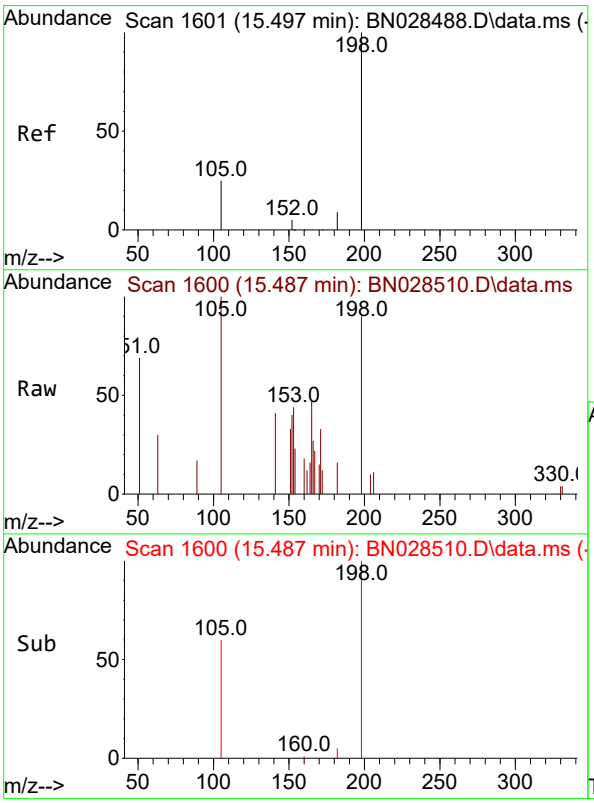
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:188 Resp: 30152

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	8.3	12.5

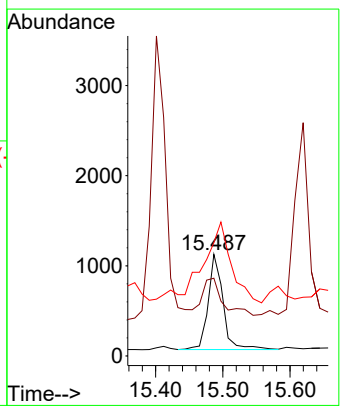


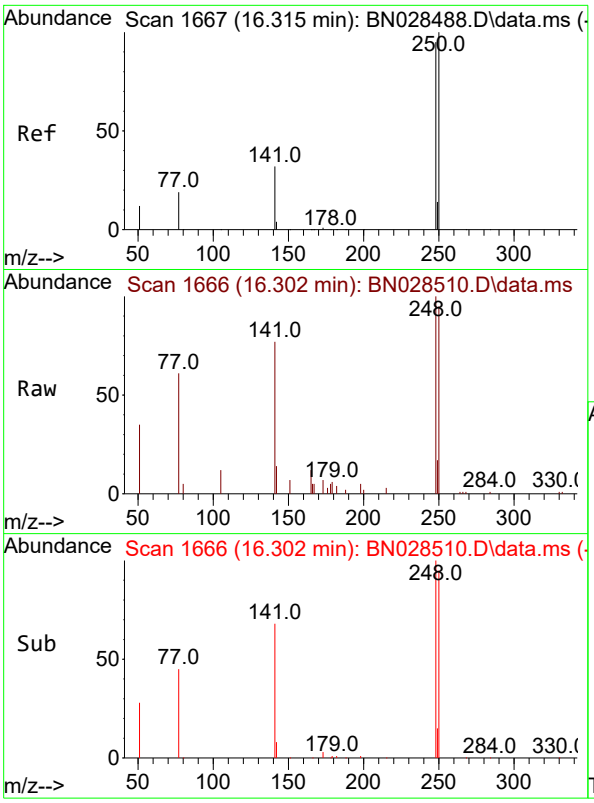


#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.487 min Scan# 1600
Delta R.T. -0.010 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:198 Resp: 1731

Ion	Ratio	Lower	Upper
198	100		
51	76.5	42.1	63.1#
105	111.4	32.6	48.8#



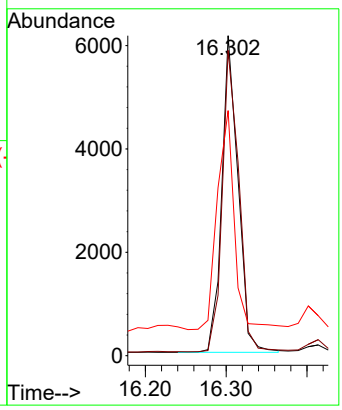


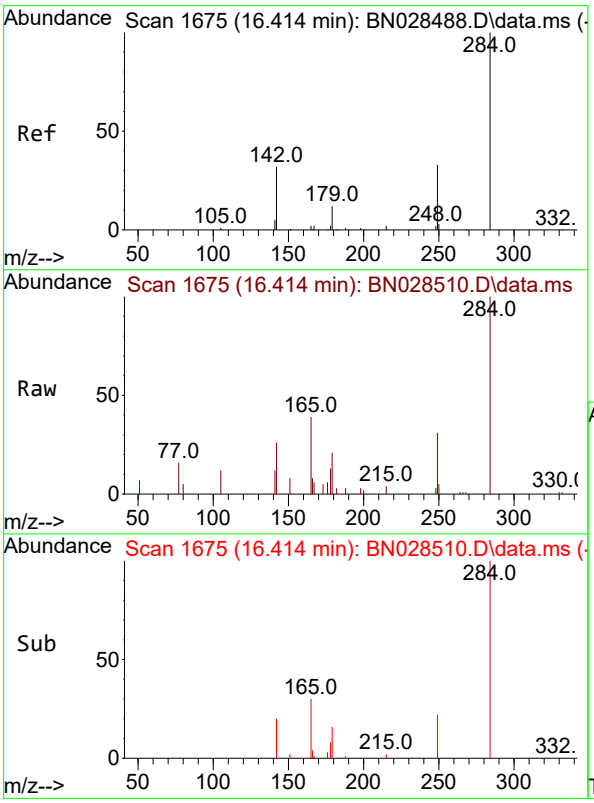
#21
4-Bromophenyl-phenylether
Concen: 0.425 ng
RT: 16.302 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:248 Resp: 8569

Ion	Ratio	Lower	Upper
248	100		
250	95.4	84.6	126.8
141	76.6	28.2	42.2#

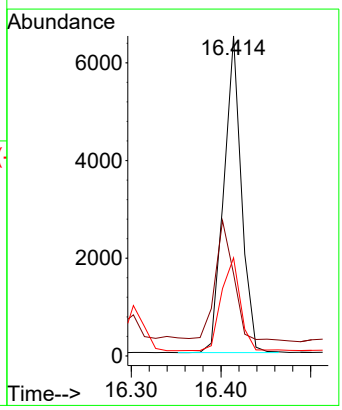


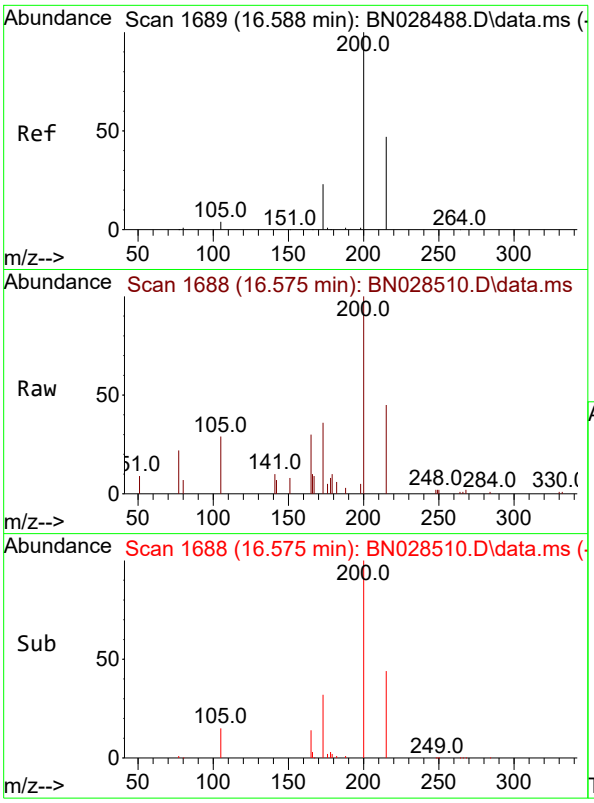


#22
Hexachlorobenzene
Concen: 0.418 ng
RT: 16.414 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:284 Resp: 8812

Ion	Ratio	Lower	Upper
284	100		
142	39.2	31.8	47.6
249	31.6	25.4	38.0



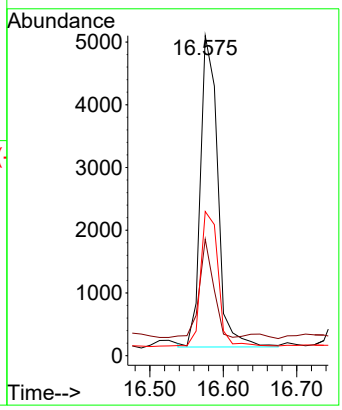


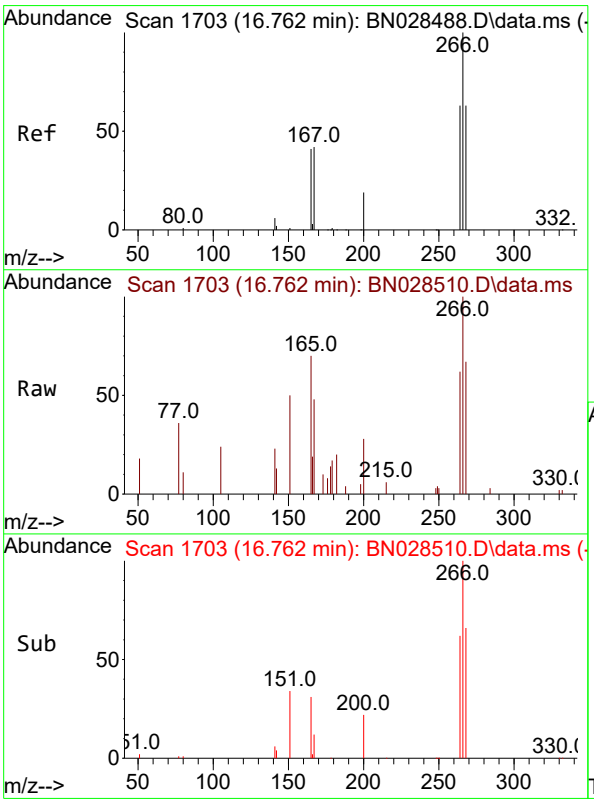
#23
Atrazine
Concen: 0.457 ng
RT: 16.575 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:200 Resp: 8113

Ion	Ratio	Lower	Upper
200	100		
173	36.4	18.7	28.1#
215	45.0	38.3	57.5

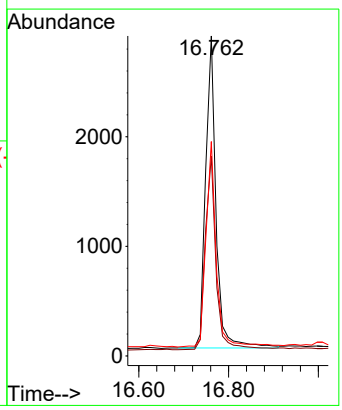


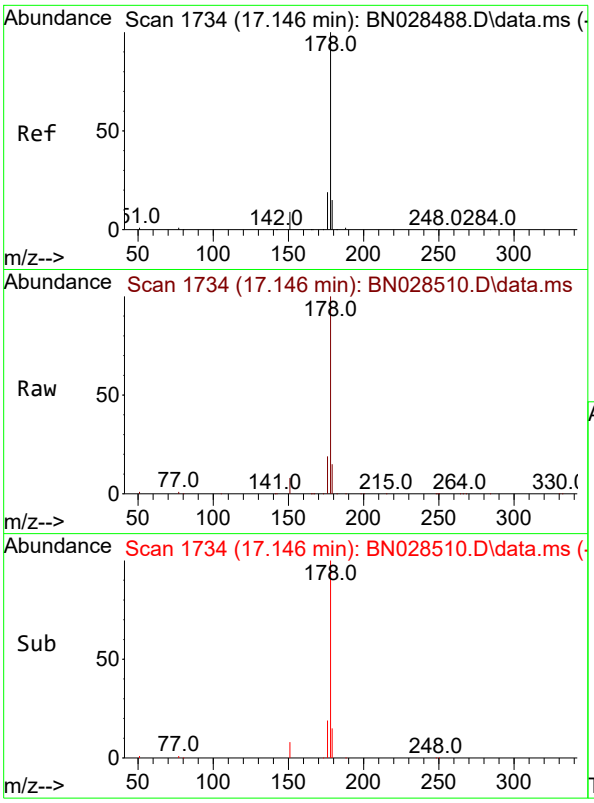


#24
Pentachlorophenol
Concen: 0.507 ng
RT: 16.762 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:266 Resp: 4579

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.5	75.7
268	65.3	51.9	77.9



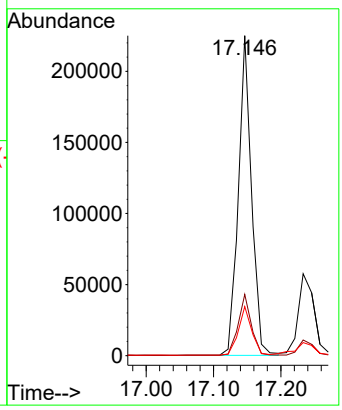


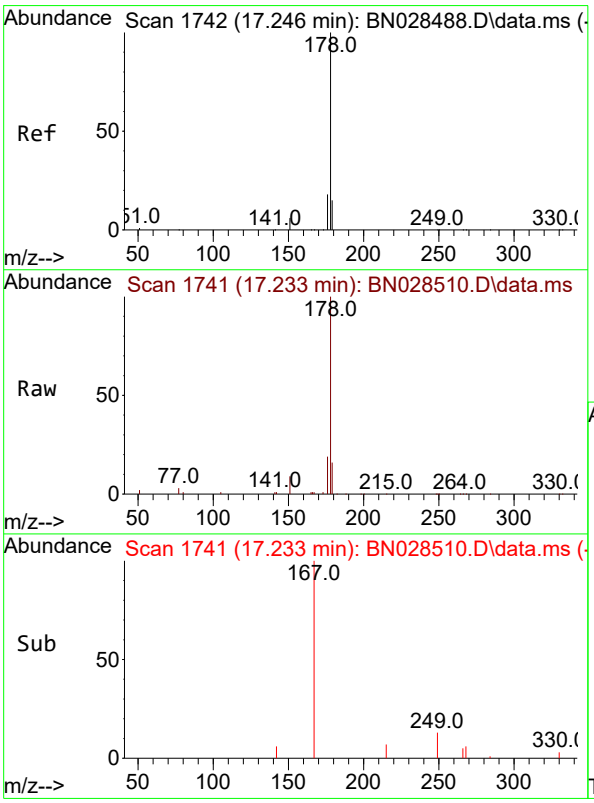
#25
Phenanthrene
Concen: 3.067 ng
RT: 17.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:178 Resp: 306717

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.1	22.7
179	15.3	12.5	18.7

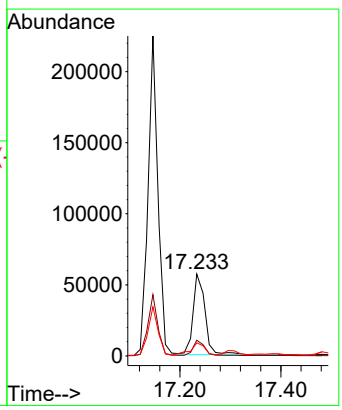


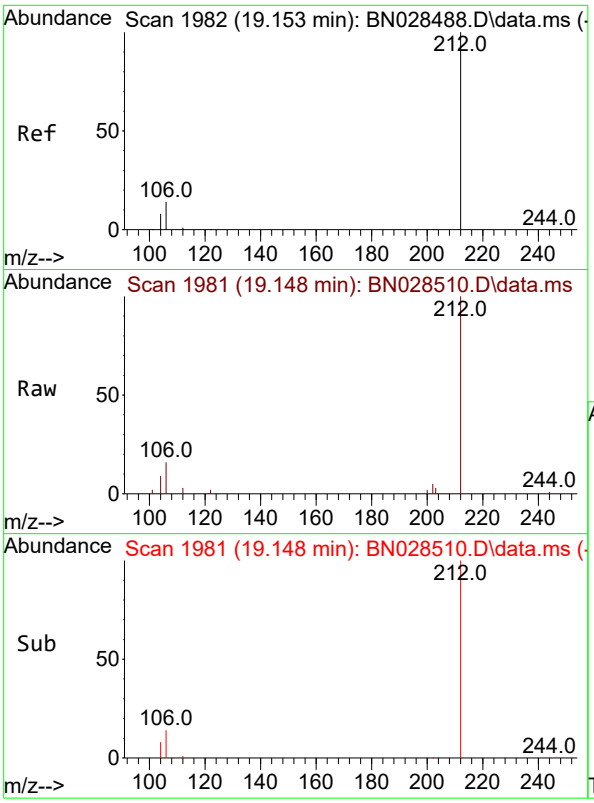


#26
Anthracene
Concen: 1.018 ng
RT: 17.233 min Scan# 1741
Delta R.T. -0.012 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:178 Resp: 93308

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.8	22.2
179	16.5	12.2	18.4



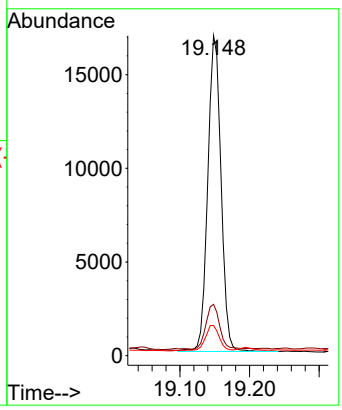


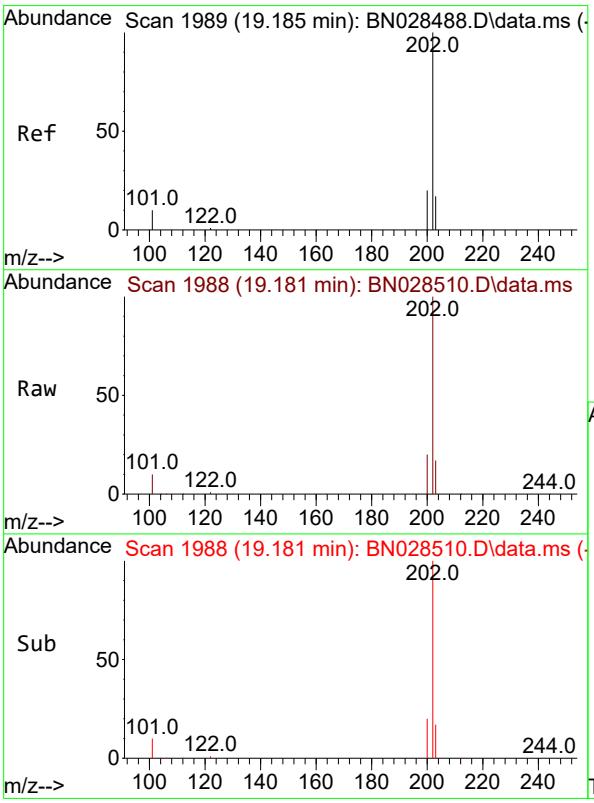
#27
Fluoranthene-d10
Concen: 0.242 ng
RT: 19.148 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:212 Resp: 22285

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	8.6	6.4	9.6

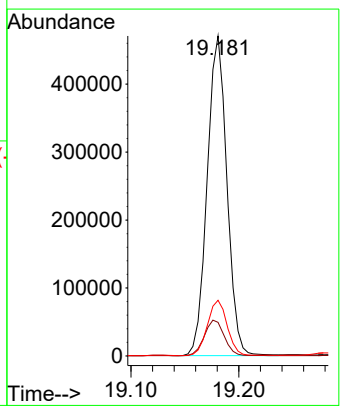


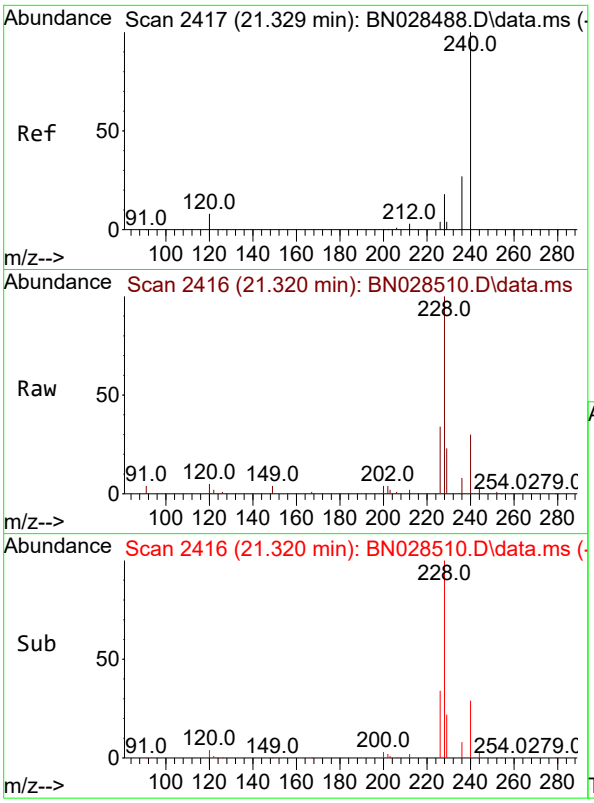


#28
Fluoranthene
Concen: 4.987 ng
RT: 19.181 min Scan# 1988
Delta R.T. -0.005 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:202 Resp: 597868

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.1	13.7
203	17.3	13.7	20.5



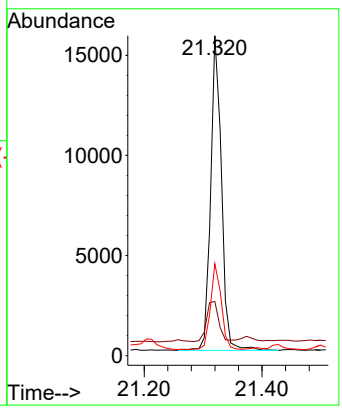


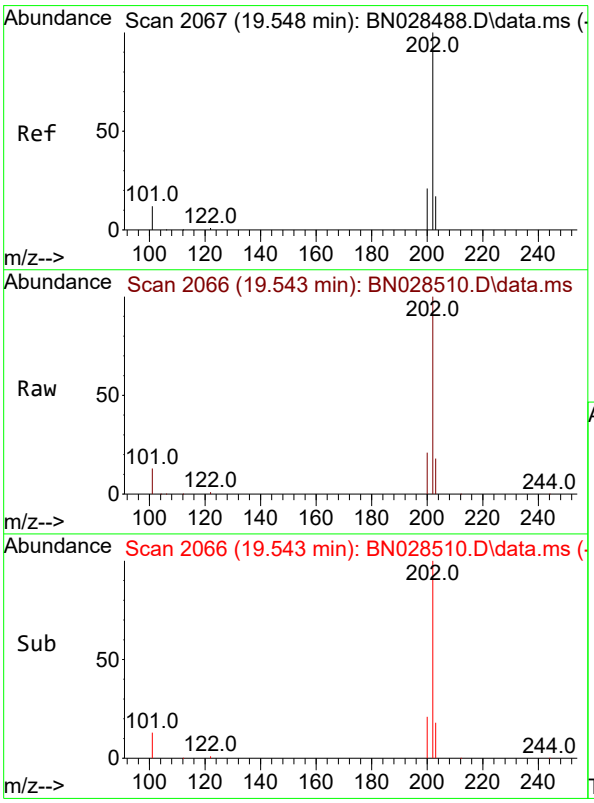
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.320 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:240 Resp: 19992

Ion	Ratio	Lower	Upper
240	100		
120	17.0	7.6	11.4#
236	28.8	21.9	32.9

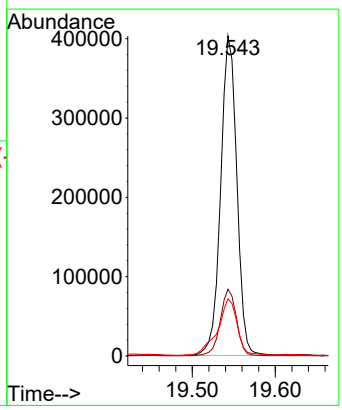


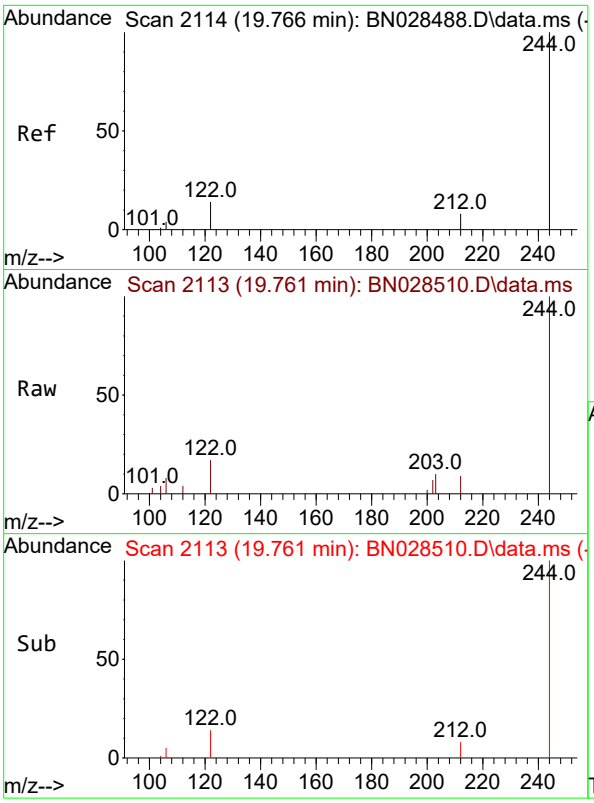


#30
Pyrene
Concen: 5.705 ng
RT: 19.543 min Scan# 2066
Delta R.T. -0.005 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:202 Resp: 543192

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.5	24.7
203	21.5	14.3	21.5#



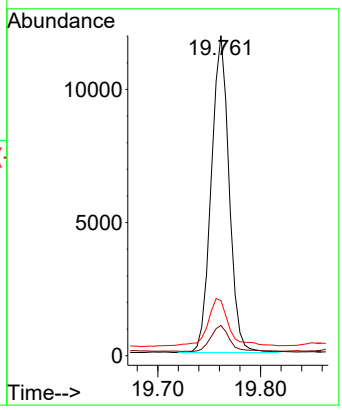


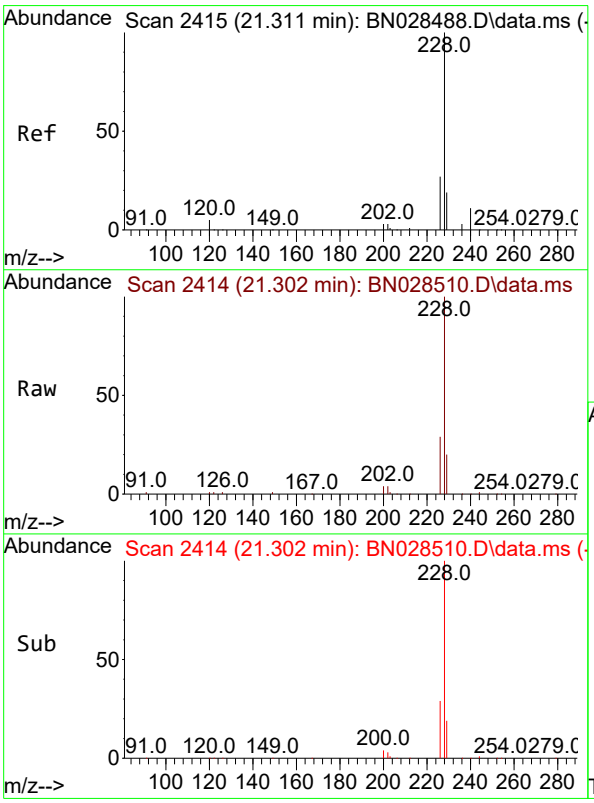
#31
Terphenyl-d14
Concen: 0.269 ng
RT: 19.761 min Scan# 21
Delta R.T. -0.005 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:244 Resp: 14313

Ion	Ratio	Lower	Upper
244	100		
212	9.5	6.6	9.8
122	17.3	11.4	17.2#

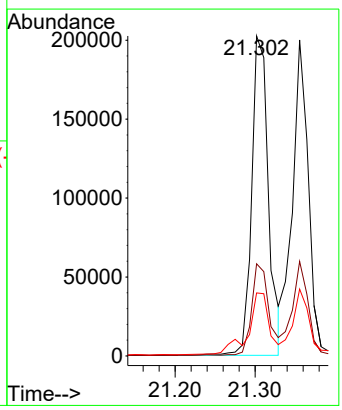


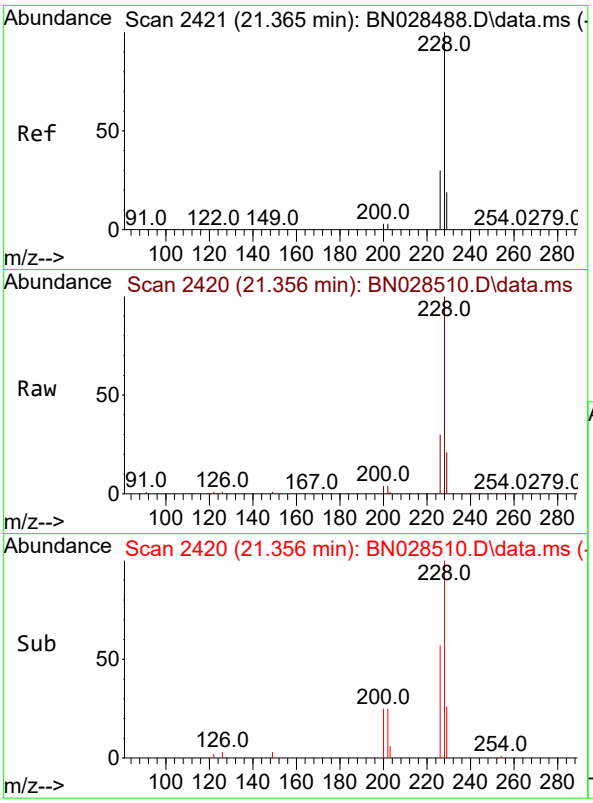


#32
Benzo(a)anthracene
Concen: 3.526 ng
RT: 21.302 min Scan# 2414
Delta R.T. -0.009 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:228 Resp: 294636

Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.4	32.2
229	19.7	15.7	23.5



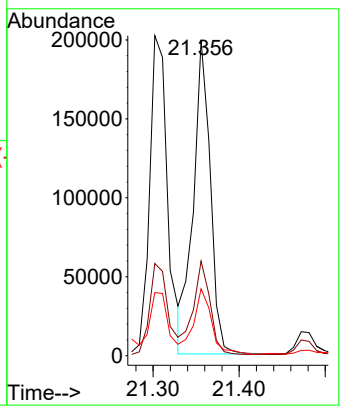


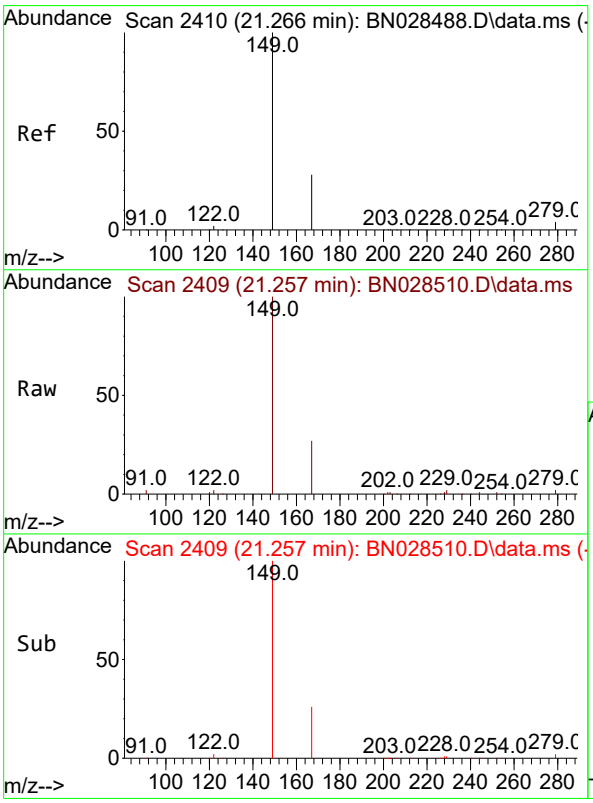
#33
Chrysene
Concen: 3.284 ng
RT: 21.356 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:228 Resp: 273996

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	21.2	15.7	23.5

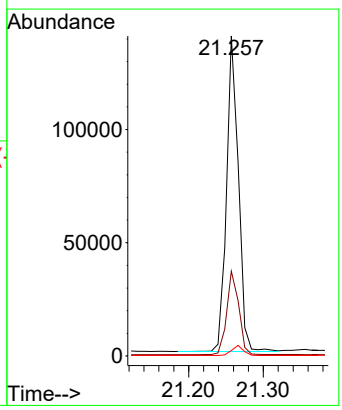


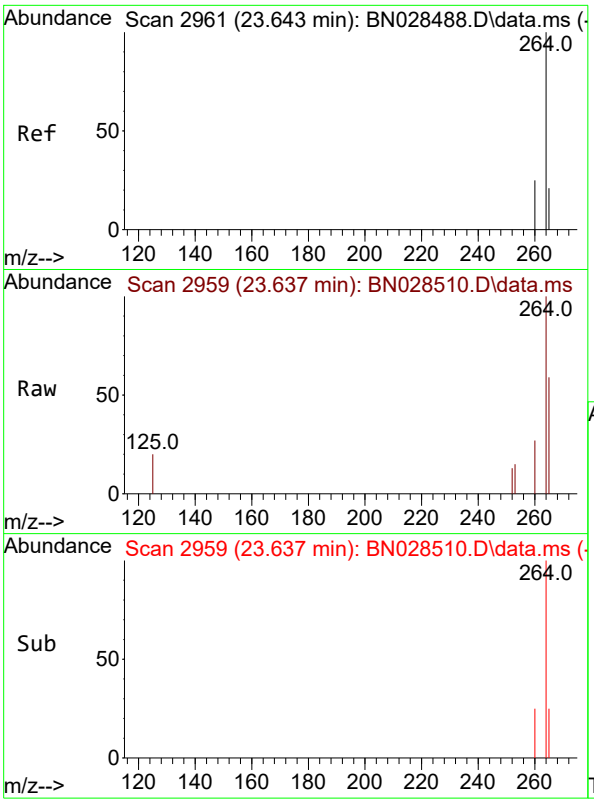


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.986 ng
RT: 21.257 min Scan# 2409
Delta R.T. -0.009 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:149 Resp: 154350

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.0	31.4
279	3.1	2.6	3.8



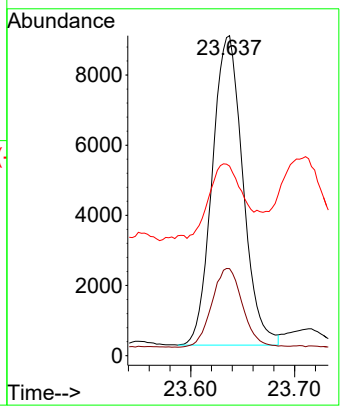


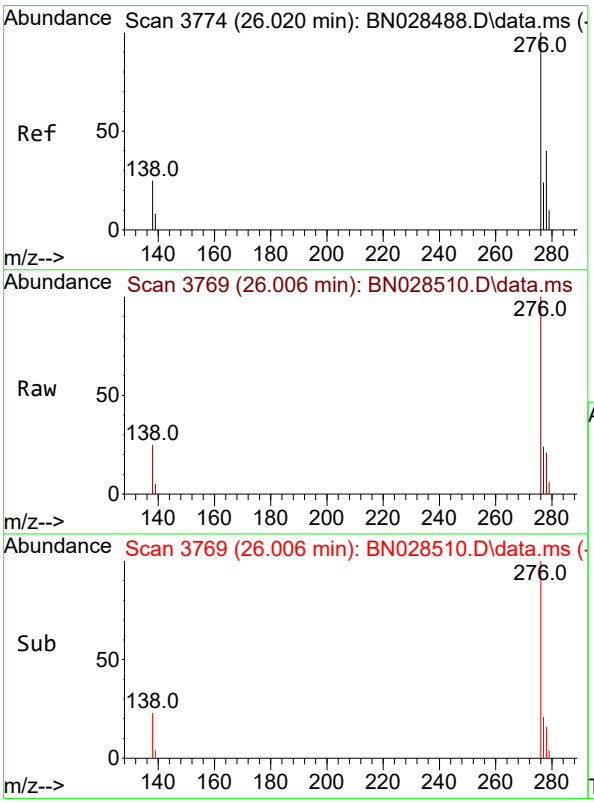
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.637 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:264 Resp: 18071

Ion	Ratio	Lower	Upper
264	100		
260	27.2	20.7	31.1
265	59.3	31.6	47.4#

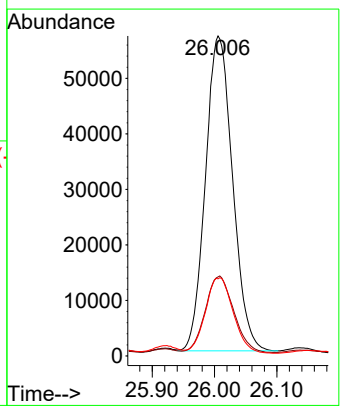


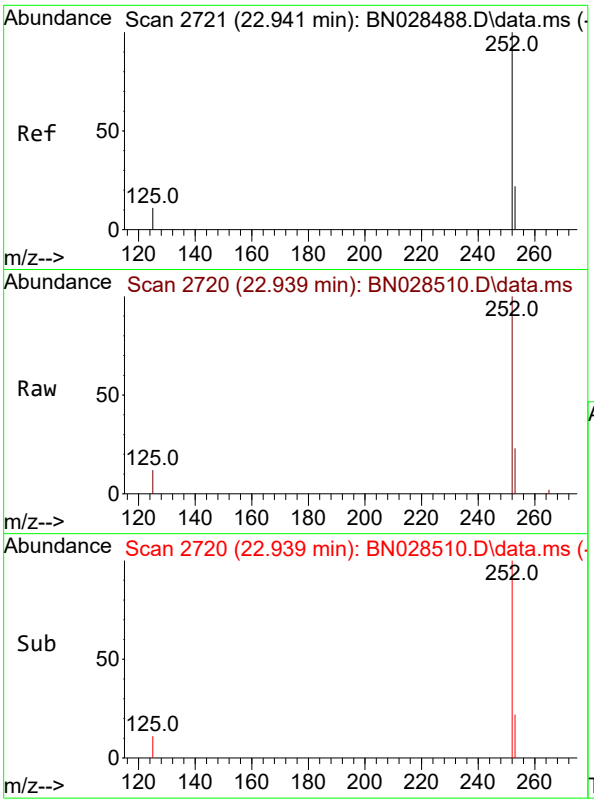


#36
Indeno(1,2,3-cd)pyrene
Concen: 2.354 ng
RT: 26.006 min Scan# 3769
Delta R.T. -0.015 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:276 Resp: 171606

Ion	Ratio	Lower	Upper
276	100		
138	25.3	22.4	33.6
277	24.6	19.8	29.6



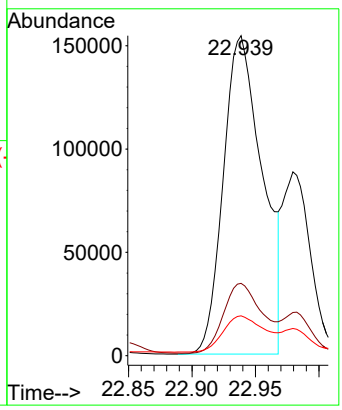


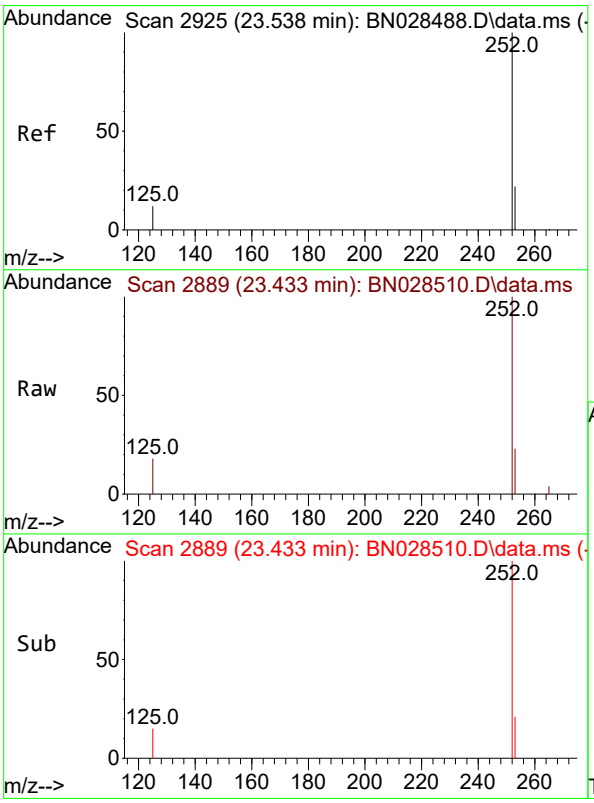
#37
Benzo(b)fluoranthene
Concen: 4.446 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:252 Resp: 331089

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.6	27.8
125	12.5	11.4	17.0

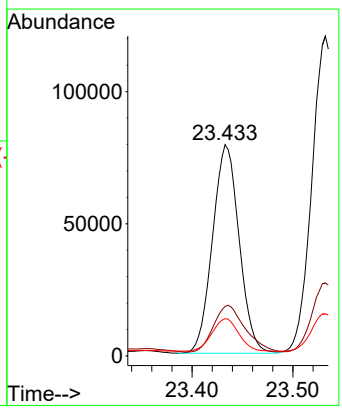


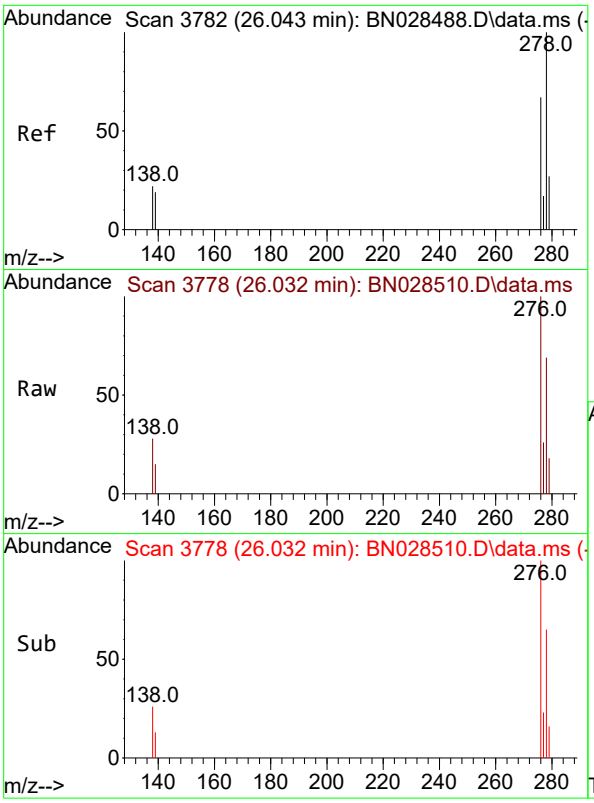


#39
Benzo(a)pyrene
Concen: 2.278 ng
RT: 23.433 min Scan# 2889
Delta R.T. -0.105 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:252 Resp: 144964

Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.3	28.9
125	17.6	13.3	19.9



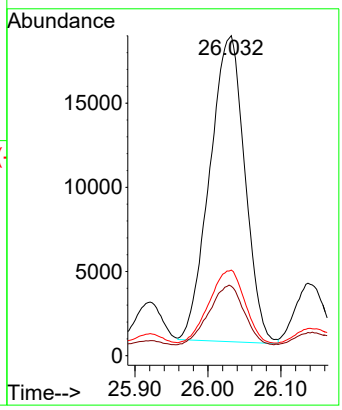


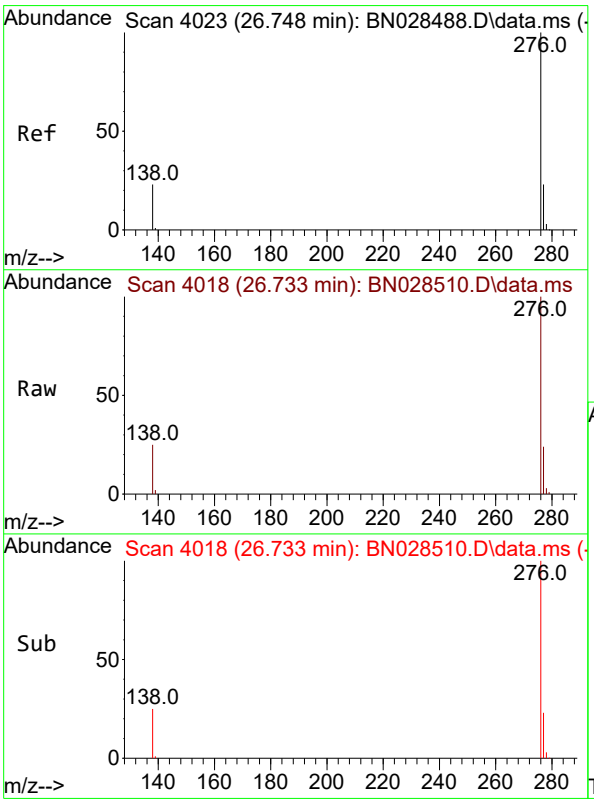
#40
Dibenzo(a,h)anthracene
Concen: 1.069 ng
RT: 26.032 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Instrument :
BNA_N
ClientSampleId :
PE-7-SOUTHSIDE-BASEMS

Tgt Ion:278 Resp: 60731

Ion	Ratio	Lower	Upper
278	100		
139	21.7	17.0	25.6
279	26.8	23.8	35.8





#41
Benzo(g,h,i)perylene
Concen: 2.663 ng
RT: 26.733 min Scan# 4018
Delta R.T. -0.015 min
Lab File: BN028510.D
Acq: 08 Nov 2023 22:07

Tgt Ion:276 Resp: 167619

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.5	29.3
138	25.3	20.1	30.1