Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081920\
Data File : BN011510.D
Acq On : 19 Aug 2020 11:01
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

Quant Time: Aug 19 13:32:13 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 19 13:20:06 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	1002	0.40	ng		0.00
7) Naphthalene-d8	10.17	136	3890	0.40	ng		0.00
13) Acenaphthene-d10	14.06	164	2328	0.40	ng		0.00
19) Phenanthrene-d10	16.82	188	4326	0.40	ng		0.00
29) Chrysene-d12	21.05	240	5520	0.40	ng		0.00
36) Perylene-d12	23.16	264	4918	0.40	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.11	112	951	0.36	ng		0.00
5) Phenol-d6	6.64	99	1014	0.32	ng		0.00
8) Nitrobenzene-d5	8.59	82	1021	0.29	ng		0.00
11) 2-Methylnaphthalene-d10	11.78	152	2189	0.31	ng		0.00
14) 2,4,6-Tribromophenol	15.57	330	336	0.31	ng		0.00
15) 2-Fluorobiphenyl	12.68	172	3763	0.37	ng		0.00
27) Fluoranthene-d10	18.86	212	4889	0.37	ng		0.00
31) Terphenyl-d14	19.48	244	4139	0.25	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.16	88	571	0.405	ng		95
3) n-Nitrosodimethylamine	3.51	42	194	0.268	ng	#	87
6) bis(2-Chloroethyl)ether	6.89	93	855	0.321	ng		88
9) Naphthalene	10.22	128	3970	0.344	ng		98
10) Hexachlorobutadiene	10.52	225	998	0.357	ng	#	98
12) 2-Methylnaphthalene	11.86	142	2386	0.292	ng		99
16) Acenaphthylene	13.77	152	4192	0.350	ng		99
17) Acenaphthene	14.13	154	2760	0.353	ng		99
18) Fluorene	15.13	166	3423	0.341	ng		98
20) 4,6-Dinitro-2-methylphenol	15.26	198	201	0.336	ng		87
21) 4-Bromophenyl-phenylether	16.03	248	1343	0.468	ng		97
22) Hexachlorobenzene	16.14	284	1339	0.412	ng		97
23) Atrazine	16.32	200	770	0.345	ng		98
24) Pentachlorophenol	16.49	266	375	0.372	ng		91
25) Phenanthrene	16.86	178	5130	0.364	ng		100
26) Anthracene	16.96	178	4571	0.391	ng		99
28) Fluoranthene	18.90	202	5964	0.373	ng		99
30) Pyrene	19.26	202	6140	0.247	ng		99
32) Benzo(a)anthracene	21.02	228	6173	0.334	ng		100
33) Chrysene	21.08	228	6976	0.336	ng		100
34) Bis(2-ethylhexyl)phthalate	20.98	149	2121	0.214	ng		99
35) Indeno(1,2,3-cd)pyrene	25.21	276	7771	0.383	ng		99
37) Benzo(b)fluoranthene	22.53	252	6818	0.348	ng		99
38) Benzo(k)fluoranthene	22.57	252	6832	0.316	ng		99
39) Benzo(a)pyrene	23.07	252	5893	0.346	ng		99
40) Dibenzo(a,h)anthracene	25.22	278	6420	0.365	ng		99
41) Benzo(g,h,i)perylene	25.82	276	6600	0.338	ng		98

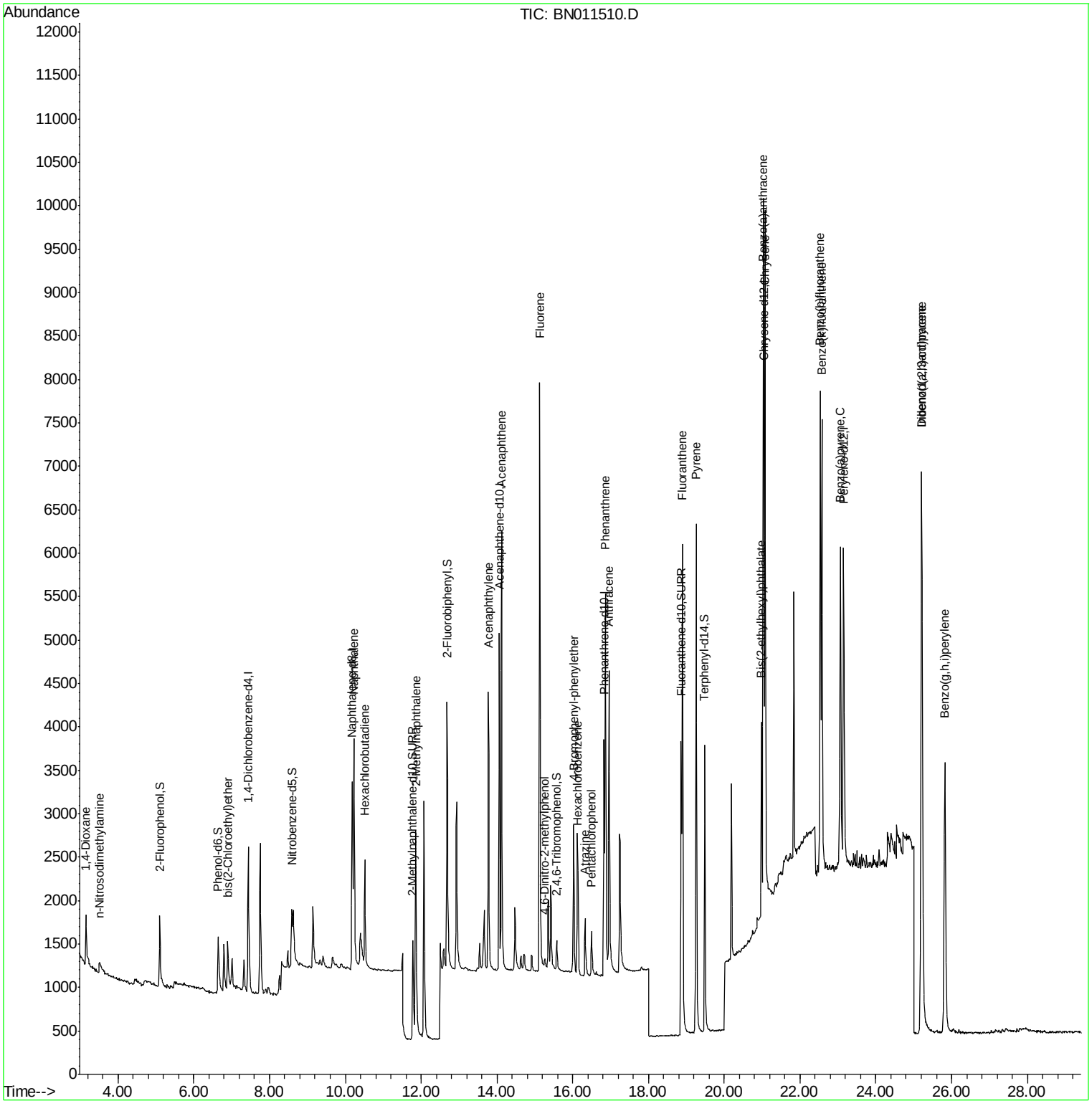
(#) = qualifier out of range (m) = manual integration (+) = signals summed

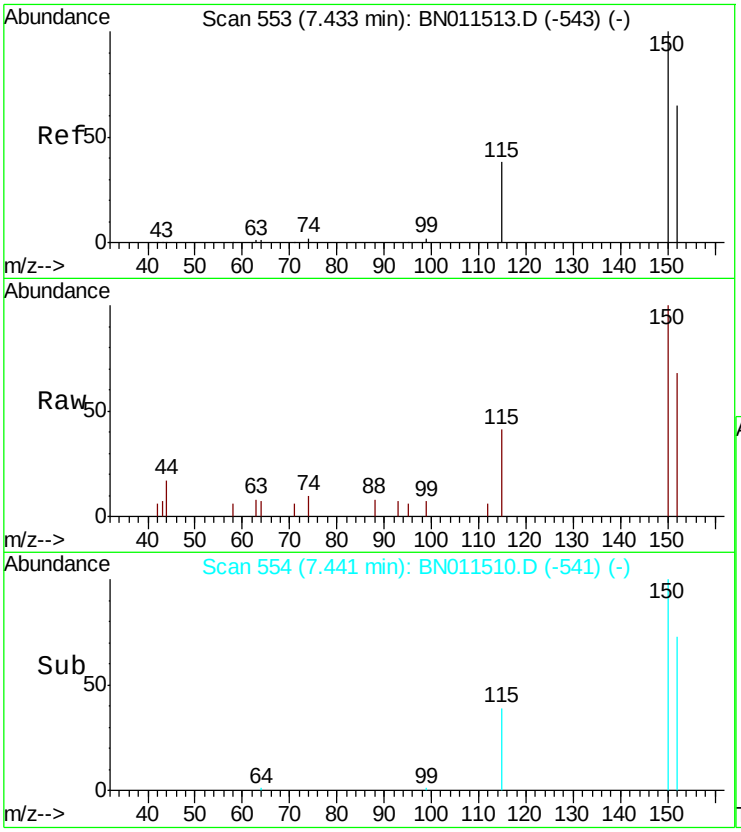
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081920\
Data File : BN011510.D
Acq On : 19 Aug 2020 11:01
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 19 13:32:13 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 19 13:20:06 2020
Response via : Initial Calibration



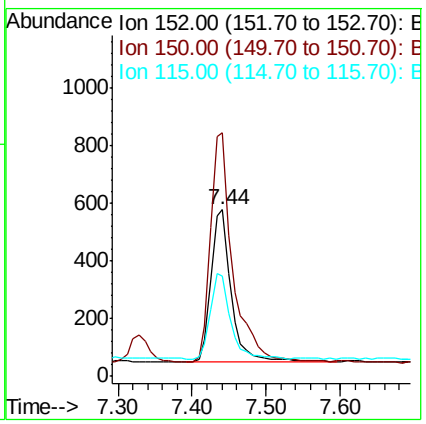


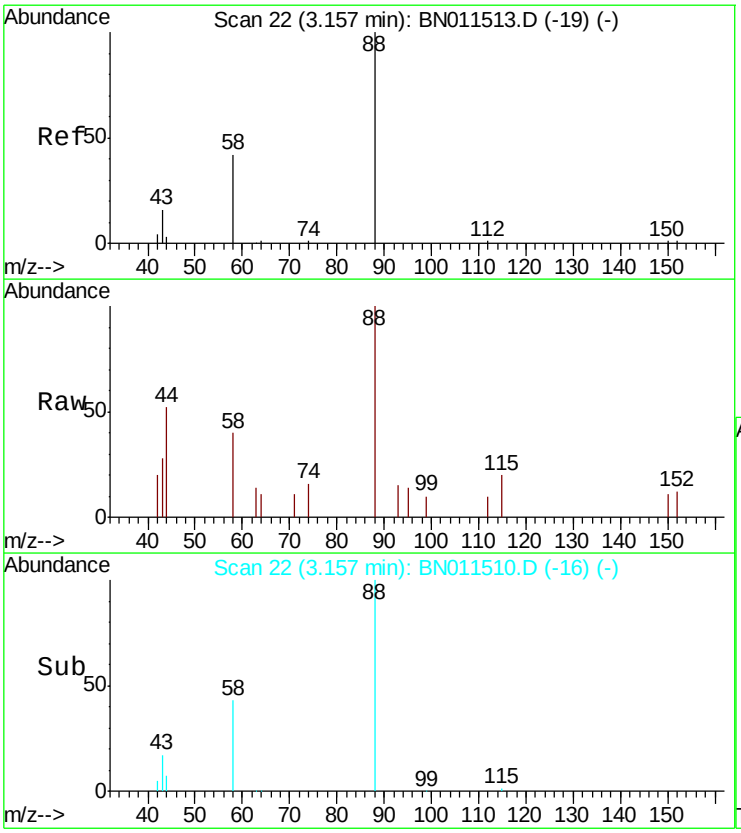
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.44 min Scan# 554
Delta R.T. 0.01 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1002

Ion	Ratio	Lower	Upper
152	100		
150	146.2	121.6	182.4
115	60.6	51.9	77.9

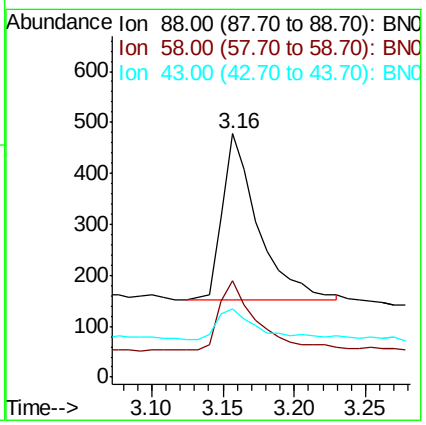


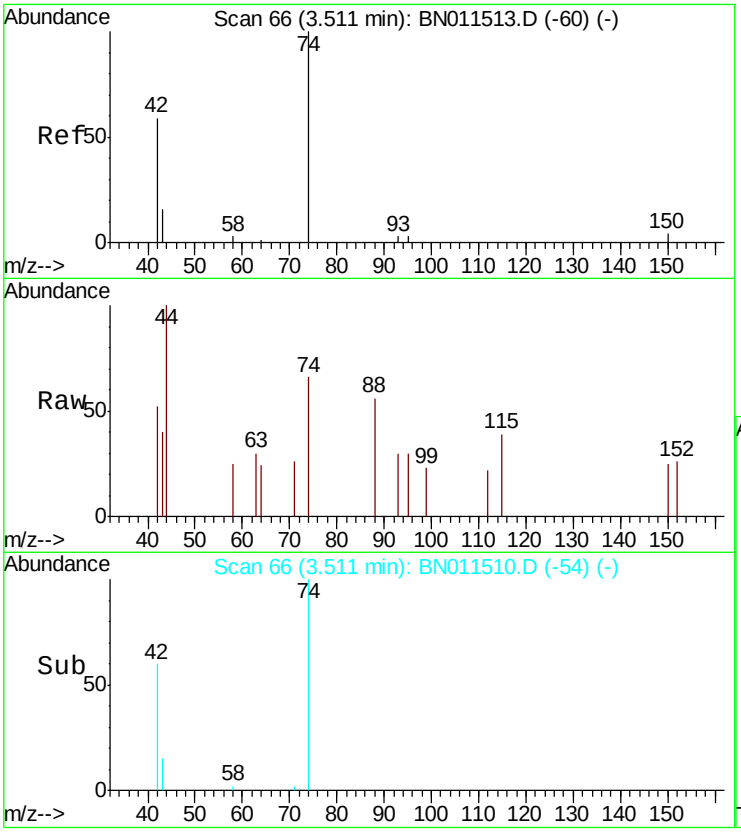


#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.16 min Scan# 22
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion: 88 Resp: 571

Ion	Ratio	Lower	Upper
88	100		
58	43.6	38.6	57.8
43	19.3	15.8	23.6



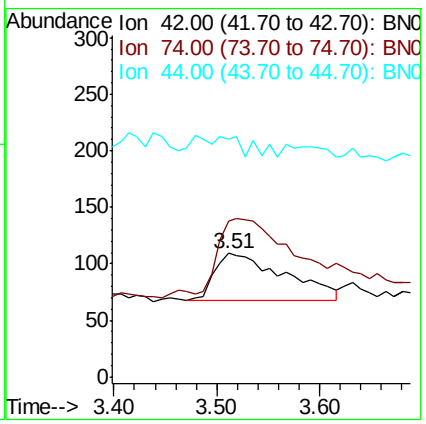


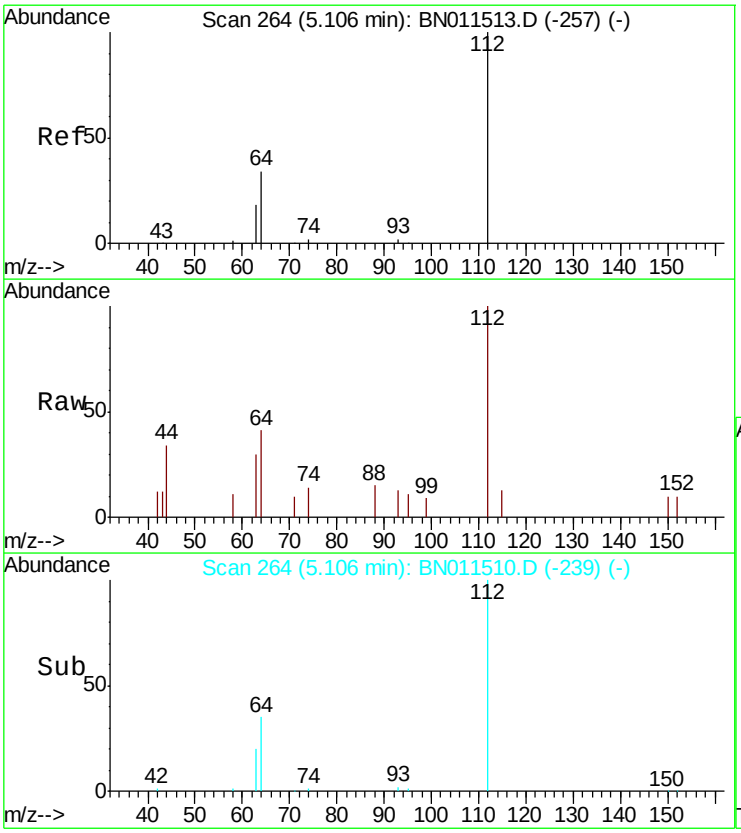
#3
n-Nitrosodimethylamine
Concen: 0.268 ng
RT: 3.51 min Scan# 66
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 194

Ion	Ratio	Lower	Upper
42	100		
74	168.6	150.4	225.6
44	12.9	0.0	0.0#

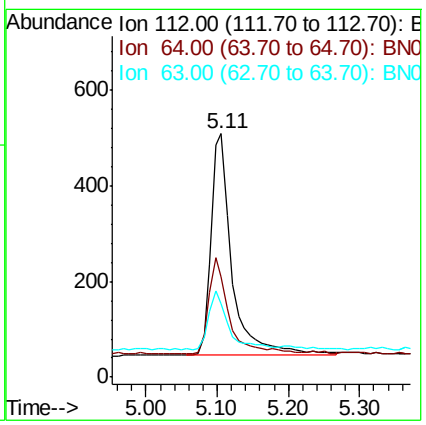


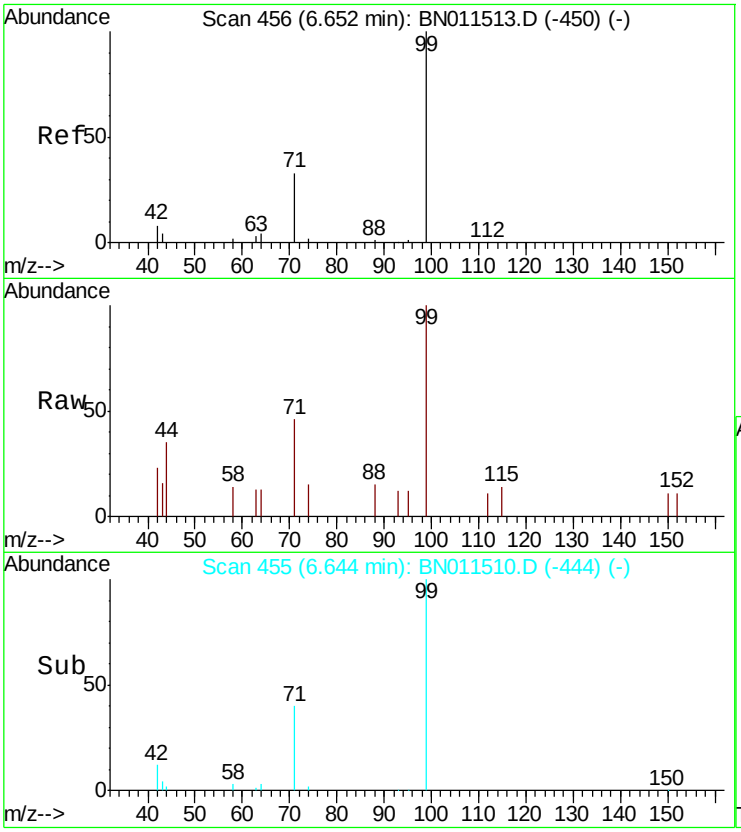


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.11 min Scan# 264
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:112 Resp: 951

Ion	Ratio	Lower	Upper
112	100		
64	41.4	33.8	50.6
63	25.7	19.5	29.3



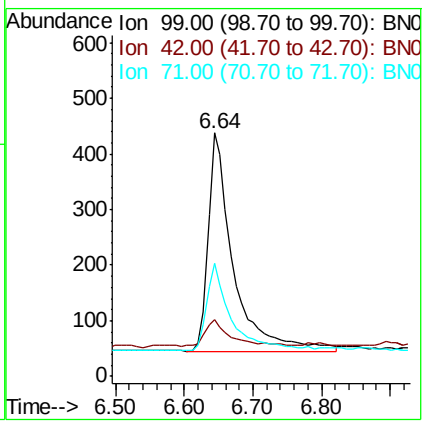


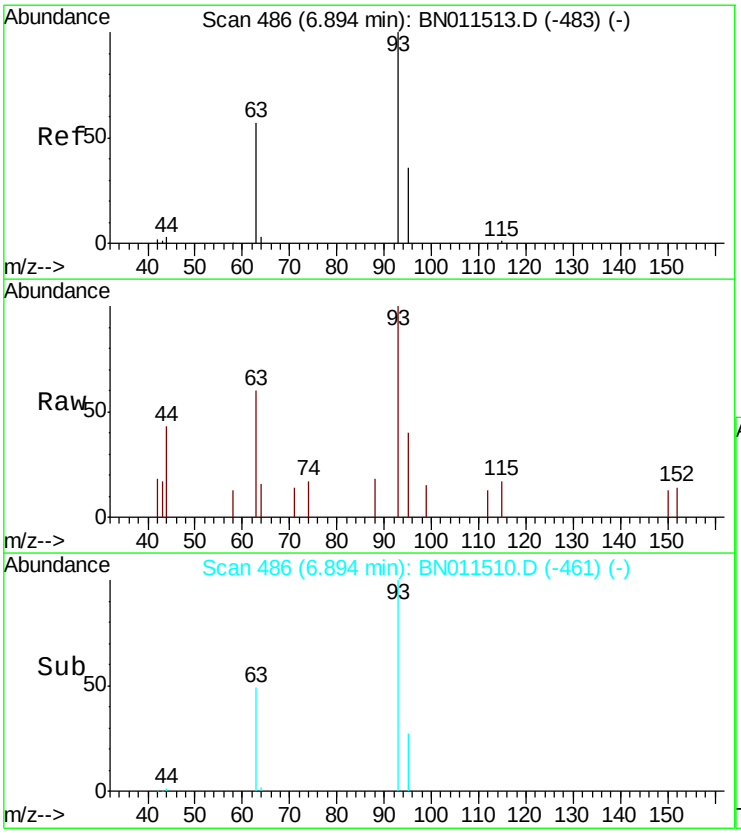
#5
Phenol-d6
Concen: 0.317 ng
RT: 6.64 min Scan# 455
Delta R.T. -0.01 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1014

Ion	Ratio	Lower	Upper
99	100		
42	11.3	10.0	15.0
71	38.0	31.0	46.4

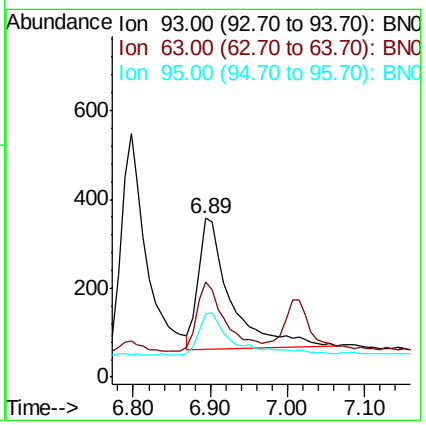


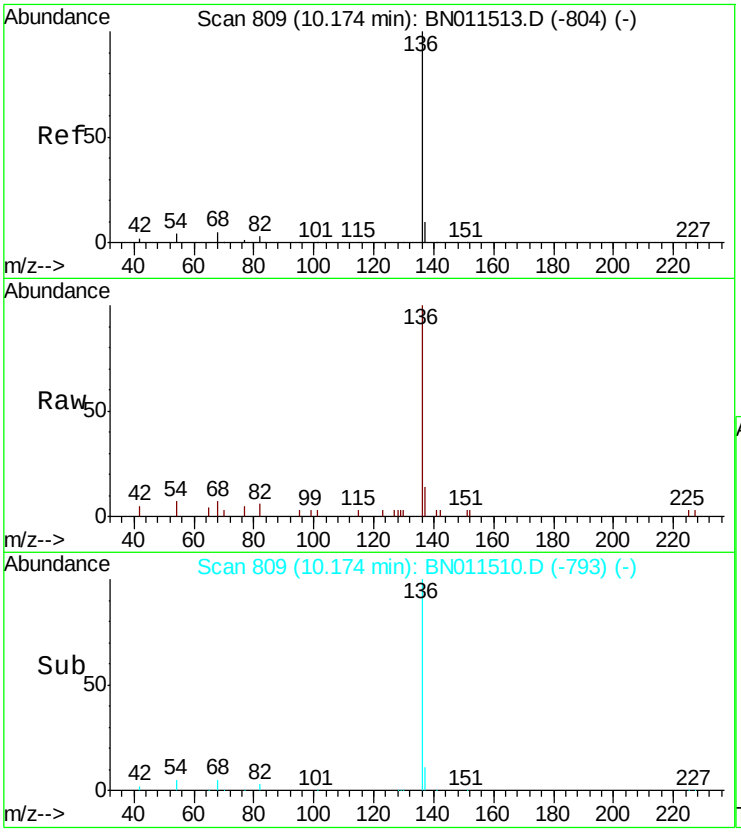


#6
bis(2-Chloroethyl)ether
Concen: 0.321 ng
RT: 6.89 min Scan# 486
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion: 93 Resp: 855

Ion	Ratio	Lower	Upper
93	100		
63	46.3	45.4	68.2
95	34.5	31.8	47.8



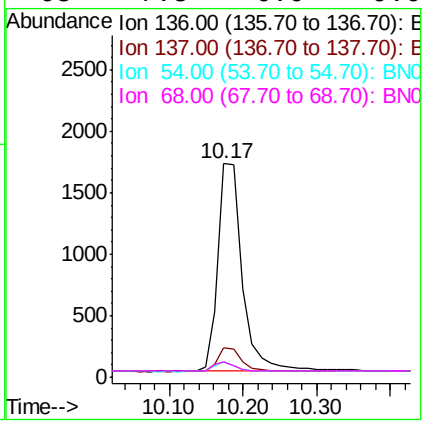


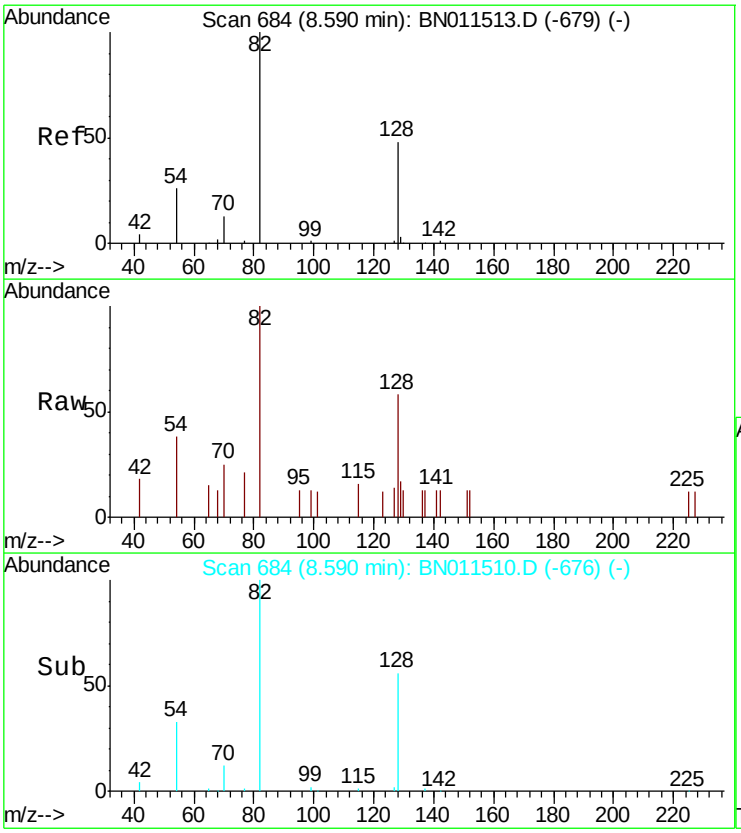
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.17 min Scan# 809
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3890

Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.3	15.5
54	7.3	5.7	8.5
68	7.3	6.0	9.0

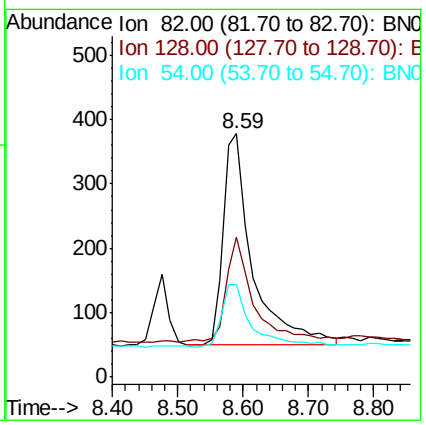


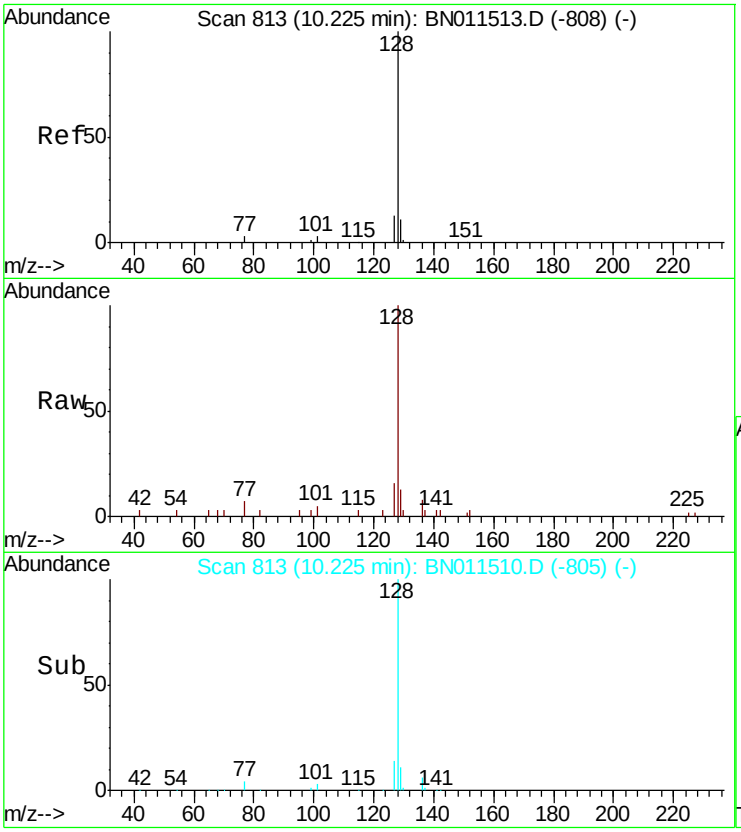


#8
Nitrobenzene-d5
Concen: 0.294 ng
RT: 8.59 min Scan# 684
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion: 82 Resp: 1021

Ion	Ratio	Lower	Upper
82	100		
128	57.7	44.6	66.8
54	37.8	27.6	41.4



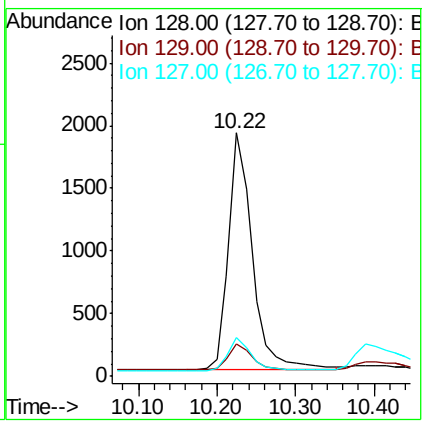


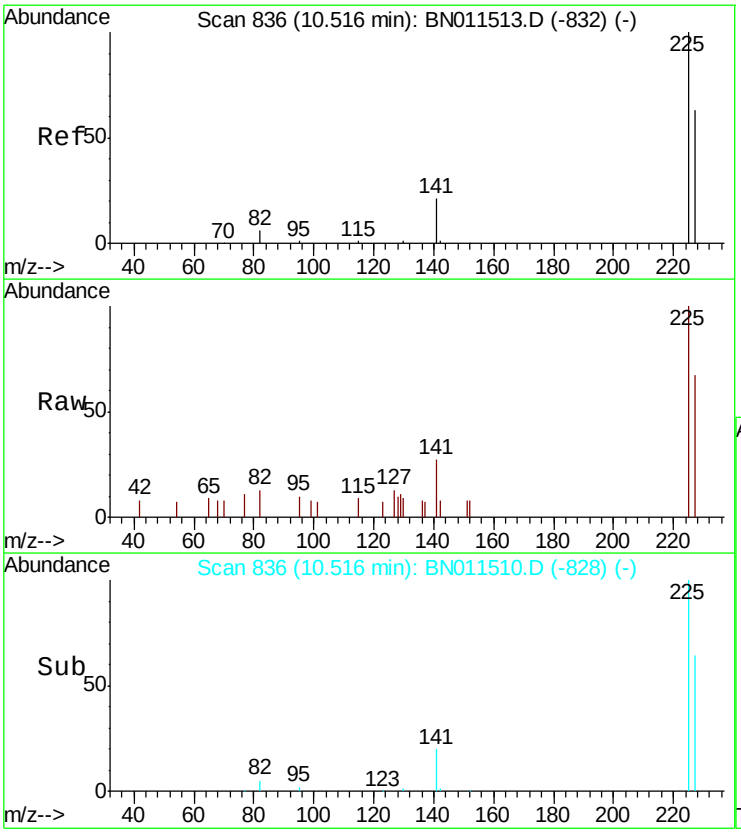
#9
Naphthalene
Concen: 0.344 ng
RT: 10.22 min Scan# 813
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 3970

Ion	Ratio	Lower	Upper
128	100		
129	13.2	11.1	16.7
127	16.0	12.2	18.4

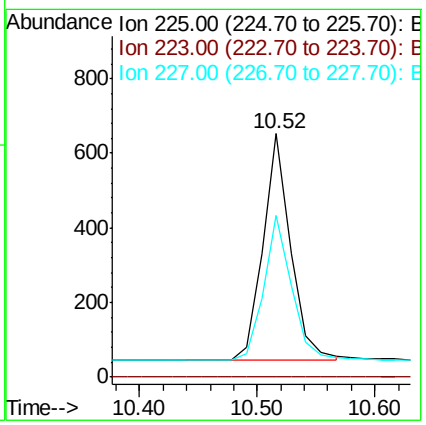


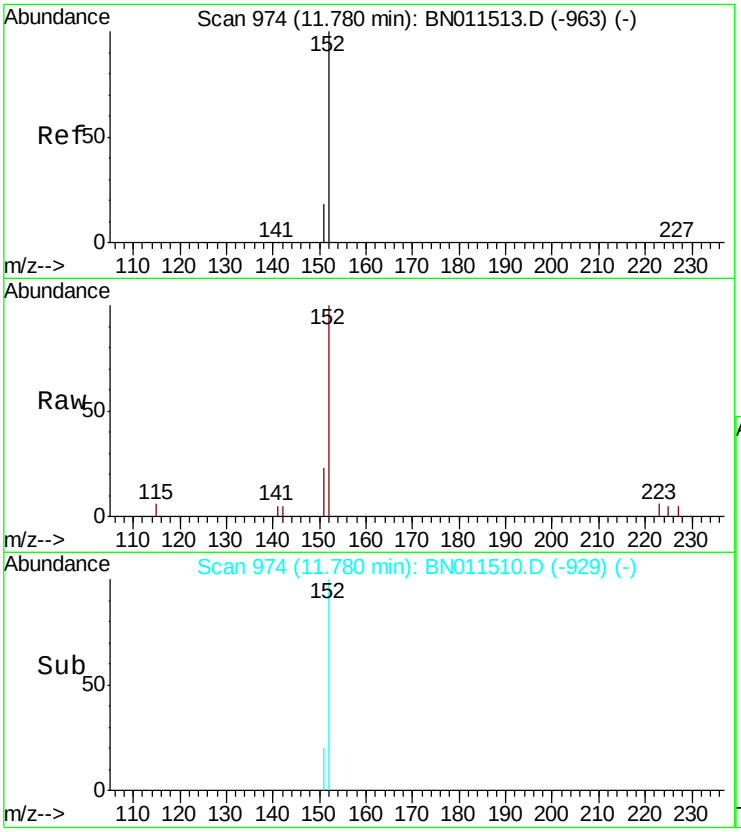


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.52 min Scan# 836
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:225 Resp: 998

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.1	75.1



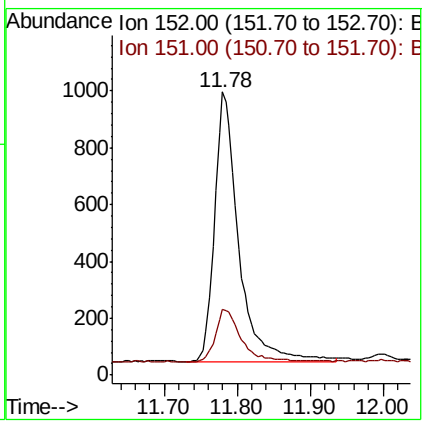


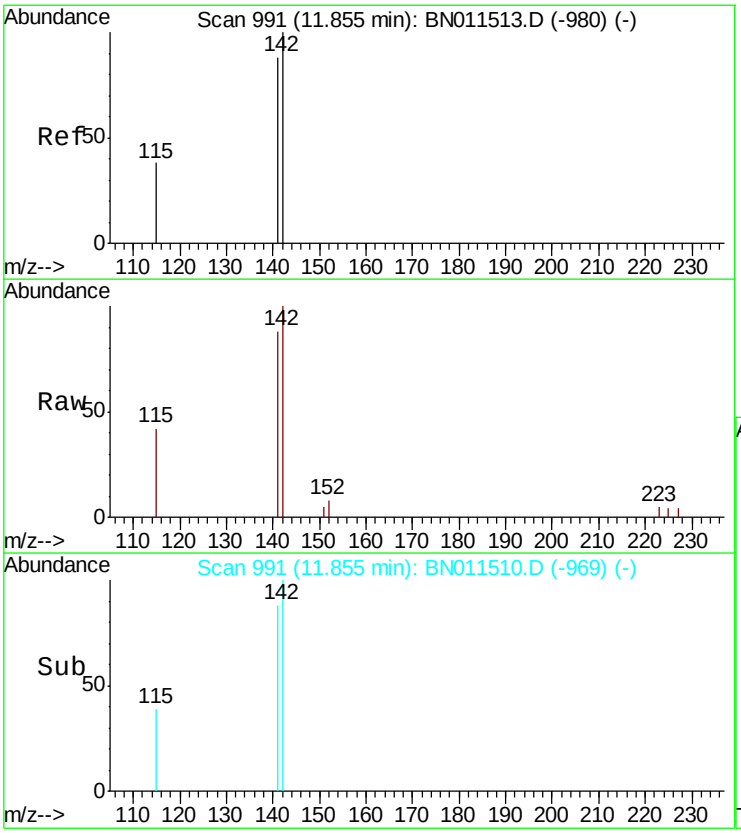
#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 11.78 min Scan# 974
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2189

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4

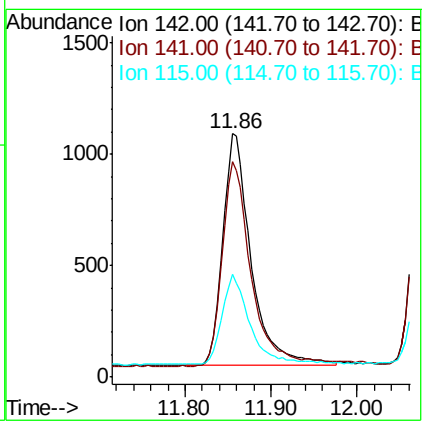


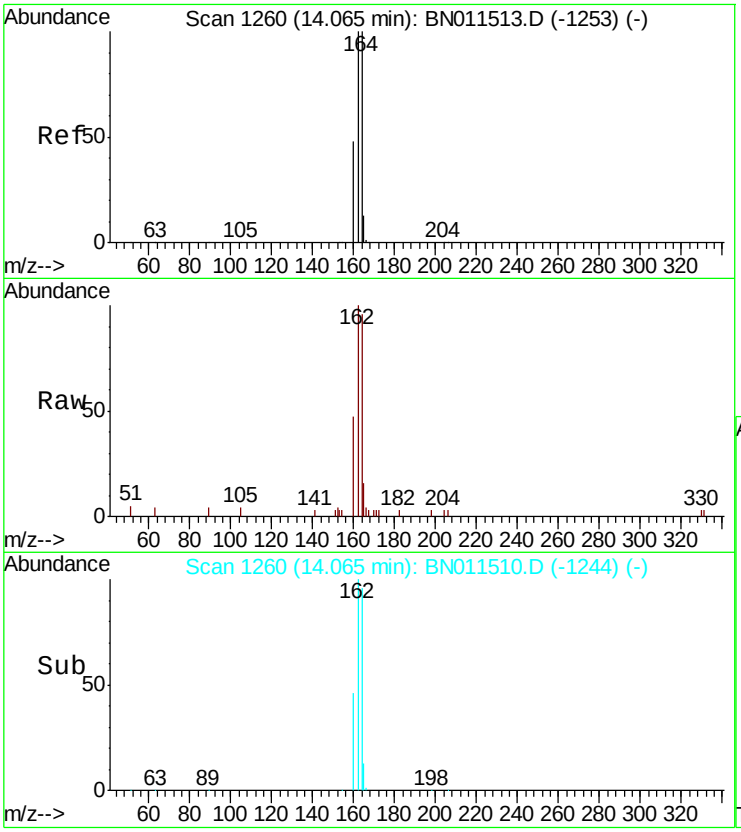


#12
2-Methylnaphthalene
Concen: 0.292 ng
RT: 11.86 min Scan# 991
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:142 Resp: 2386

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.9	106.3
115	42.5	33.2	49.8



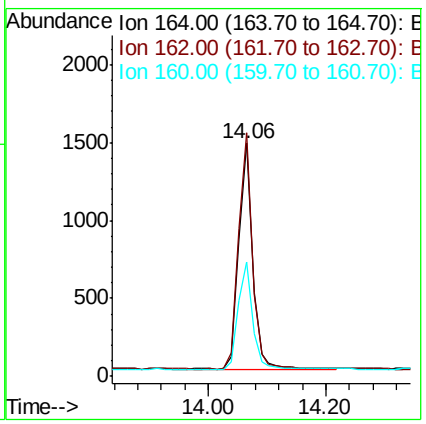


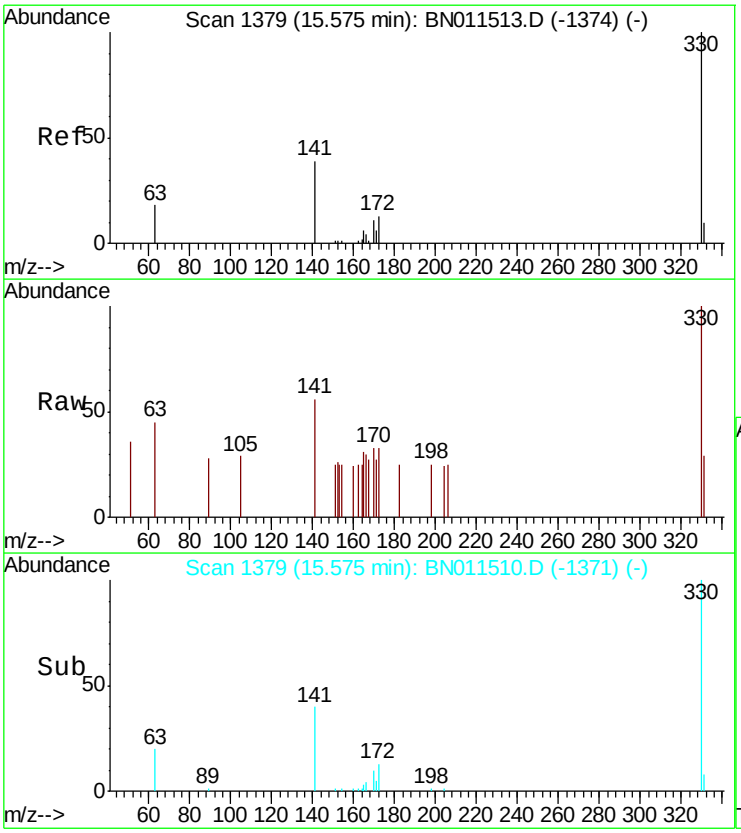
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.06 min Scan# 1260
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2328

Ion	Ratio	Lower	Upper
164	100		
162	104.4	79.8	119.8
160	49.3	39.6	59.4

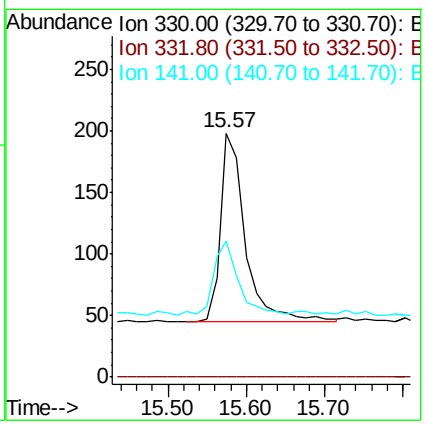


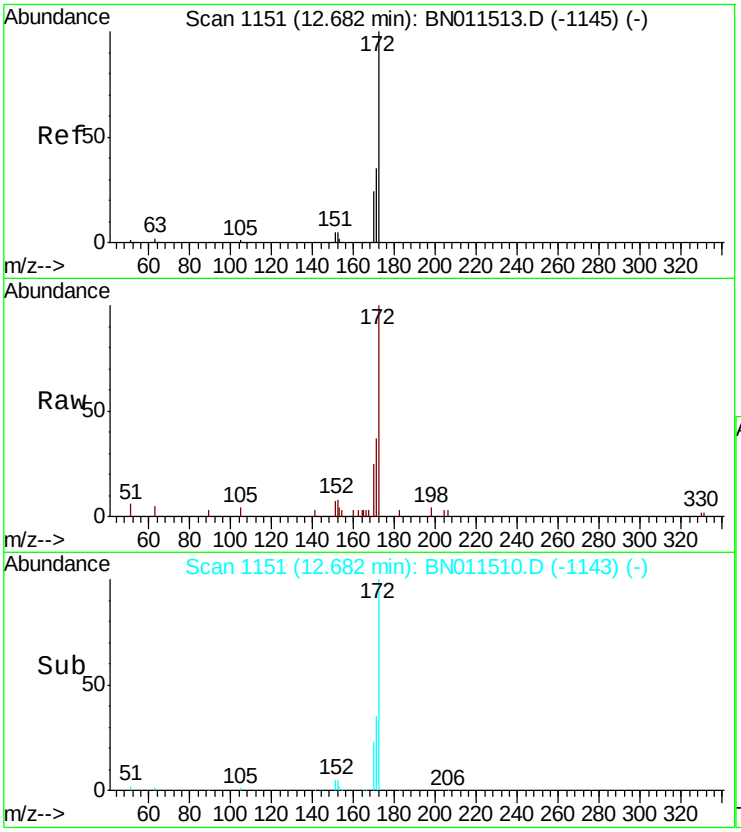


#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.57 min Scan# 1379
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:330 Resp: 336

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	40.5	35.8	53.6



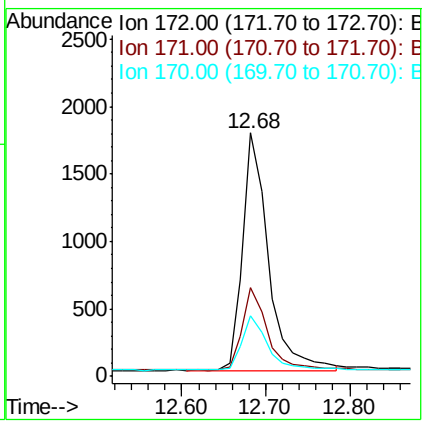


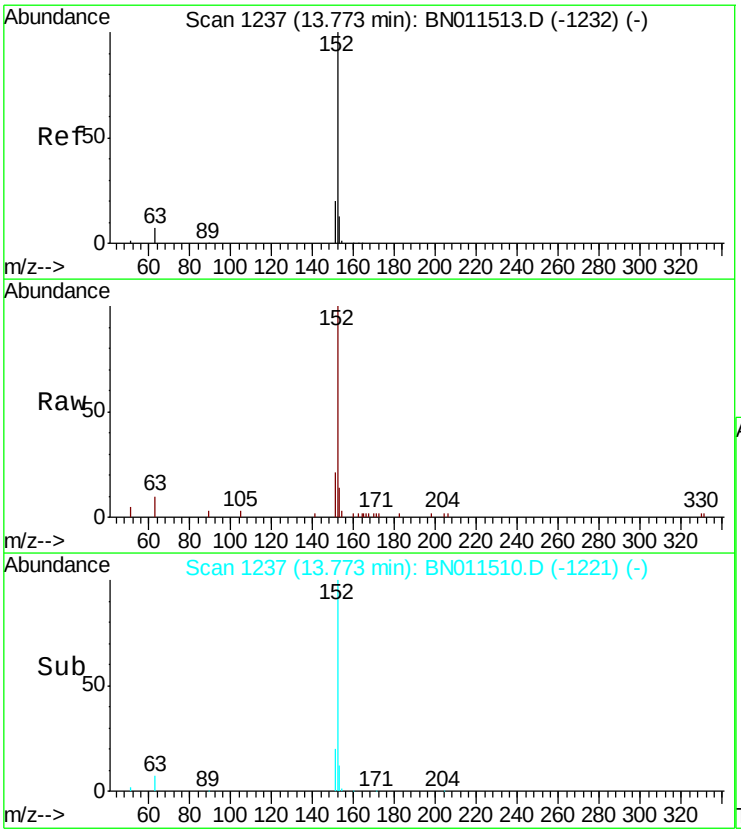
#15
2-Fluorobiphenyl
Concen: 0.374 ng
RT: 12.68 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 3763

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	25.1	20.9	31.3

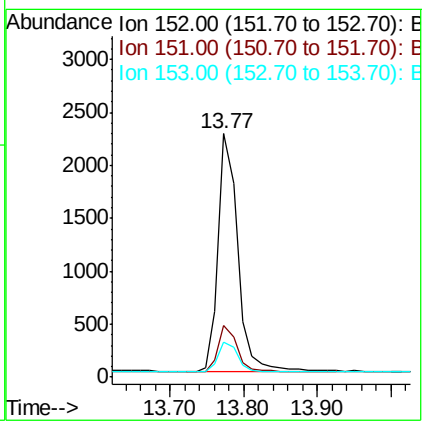


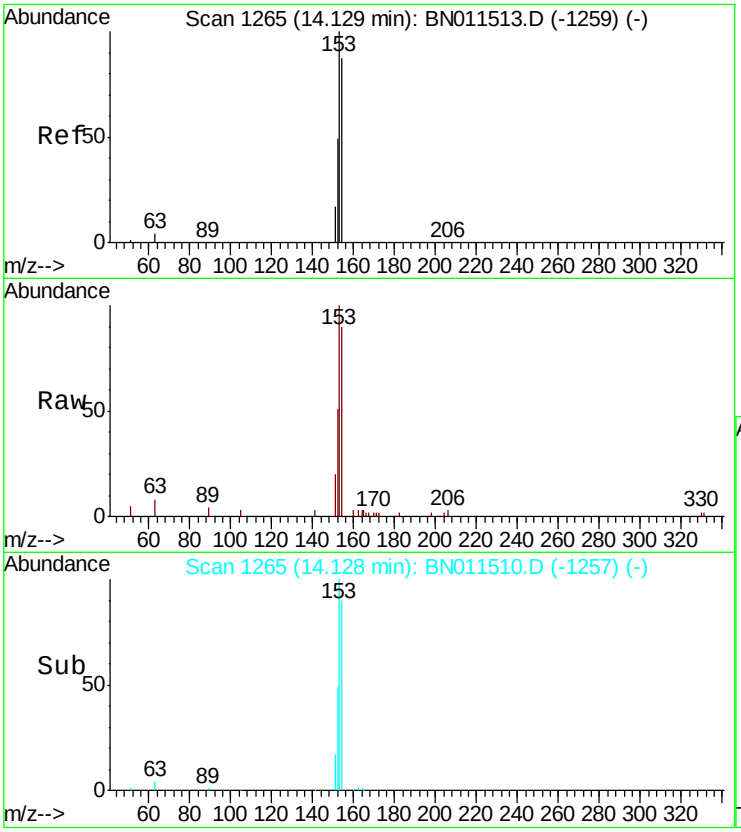


#16
Acenaphthylene
Concen: 0.350 ng
RT: 13.77 min Scan# 1237
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:152 Resp: 4192

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.8	23.6
153	13.1	10.1	15.1



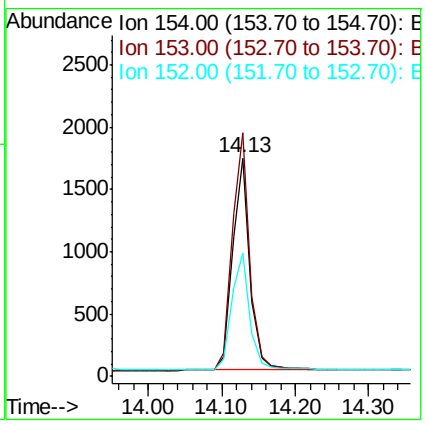


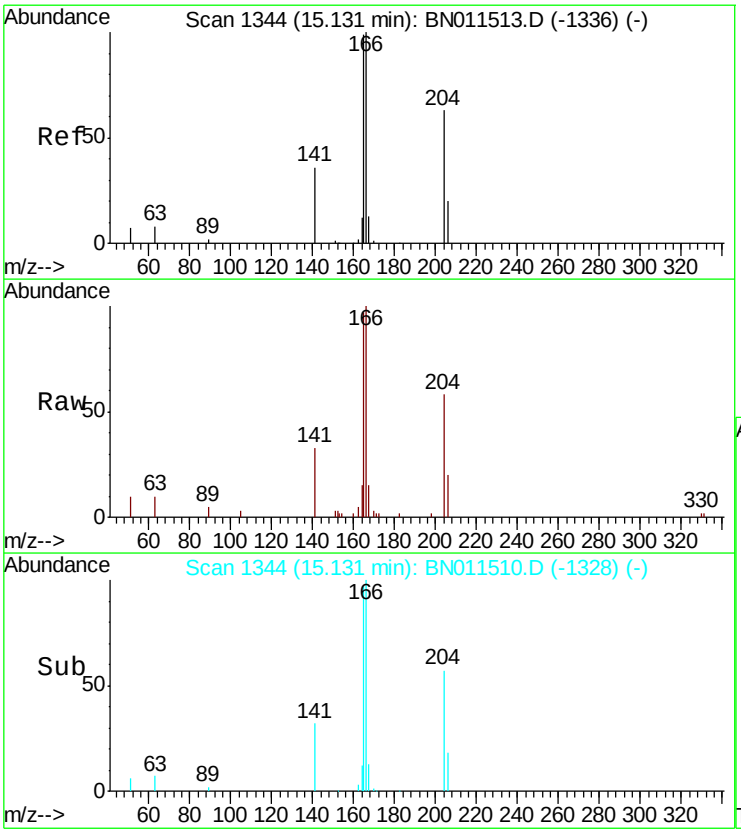
#17
Acenaphthene
Concen: 0.353 ng
RT: 14.13 min Scan# 1265
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2760

Ion	Ratio	Lower	Upper
154	100		
153	114.1	92.1	138.1
152	57.3	46.4	69.6

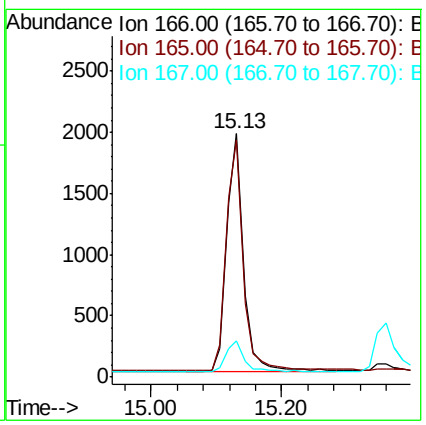


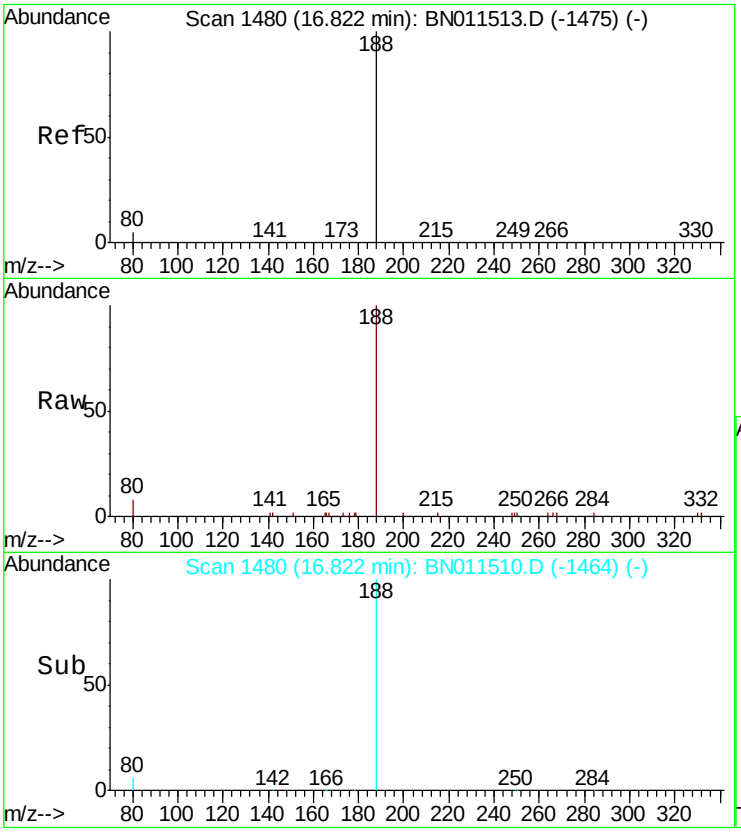


#18
Fluorene
Concen: 0.341 ng
RT: 15.13 min Scan# 1344
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:166 Resp: 3423

Ion	Ratio	Lower	Upper
166	100		
165	98.2	80.4	120.6
167	13.6	10.7	16.1



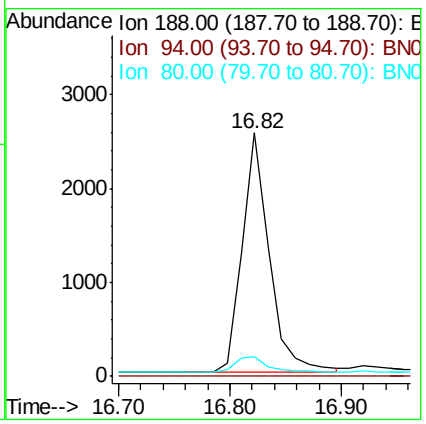


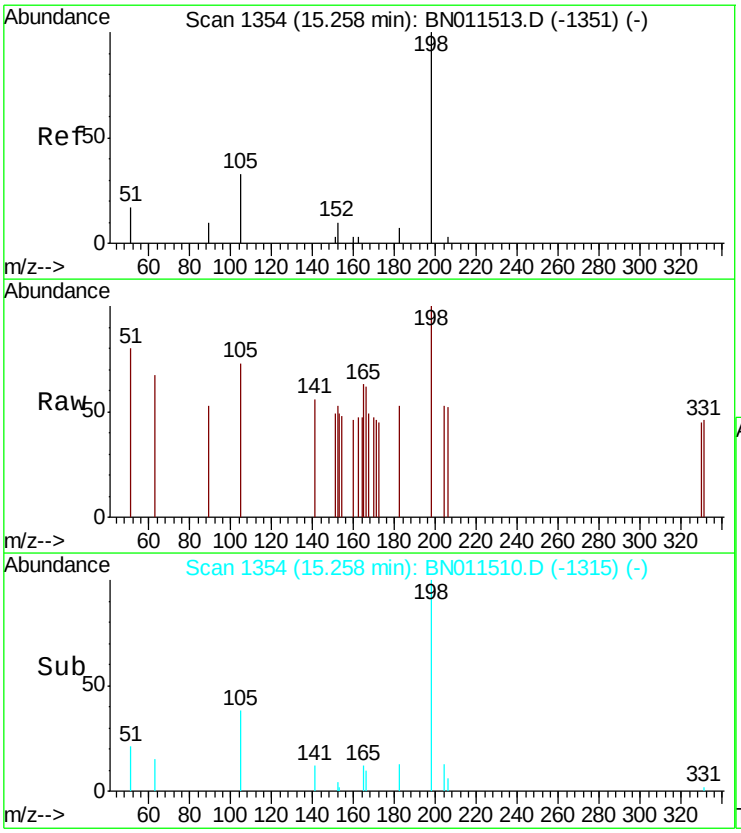
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1480
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 4326

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	5.4	8.2

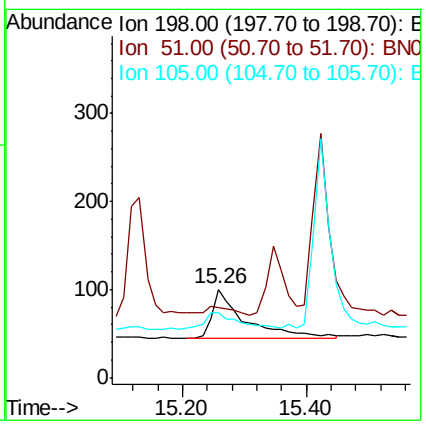


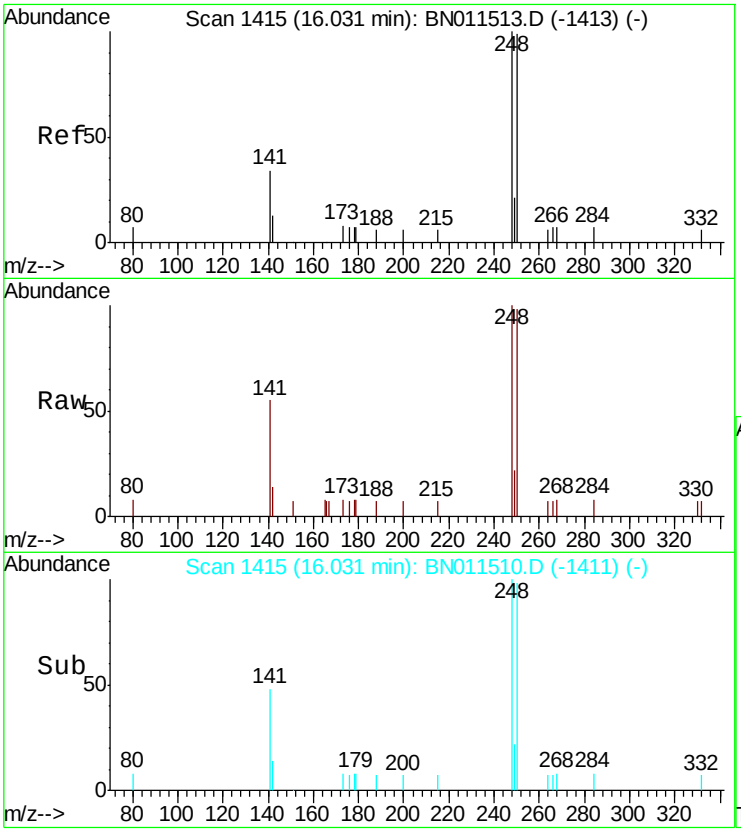


#20
4,6-Dinitro-2-methylphenol
Concen: 0.336 ng
RT: 15.26 min Scan# 1354
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:198 Resp: 201

Ion	Ratio	Lower	Upper
198	100		
51	80.0	75.8	113.6
105	73.0	65.3	97.9



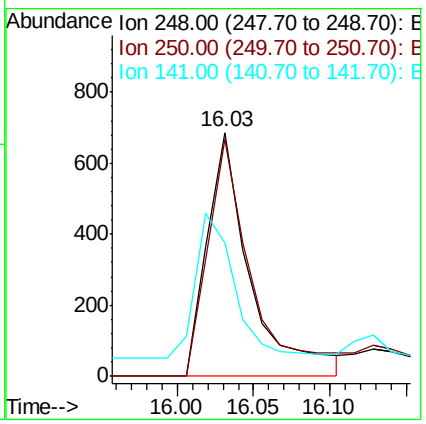


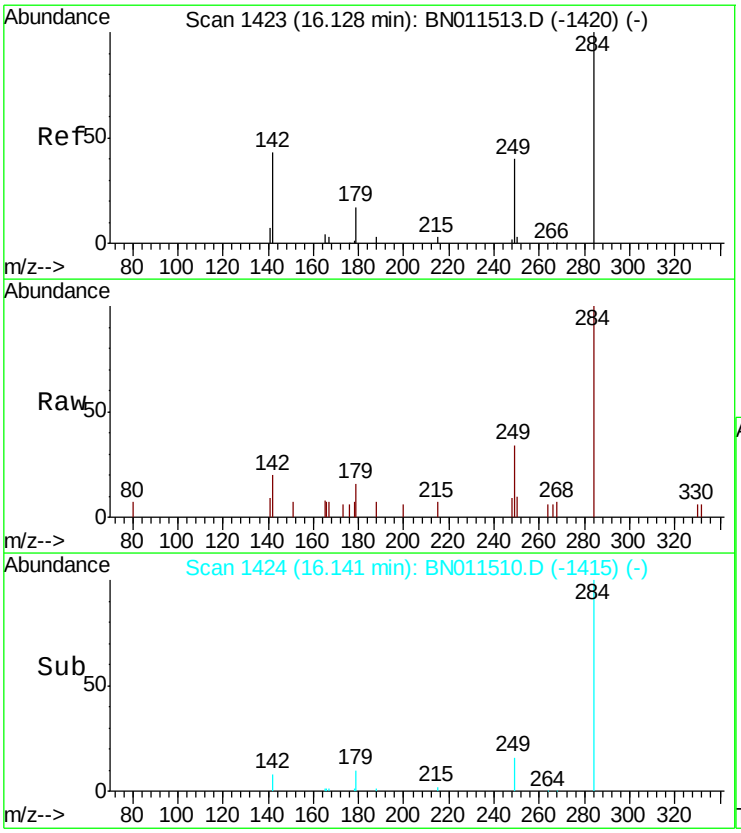
#21
4-Bromophenyl-phenylether
Concen: 0.468 ng
RT: 16.03 min Scan# 1415
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1343

Ion	Ratio	Lower	Upper
248	100		
250	97.5	79.4	119.0
141	55.0	40.8	61.2

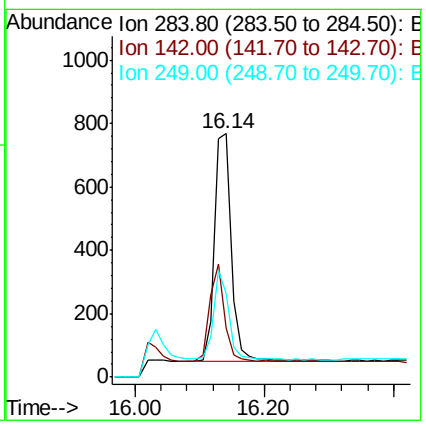


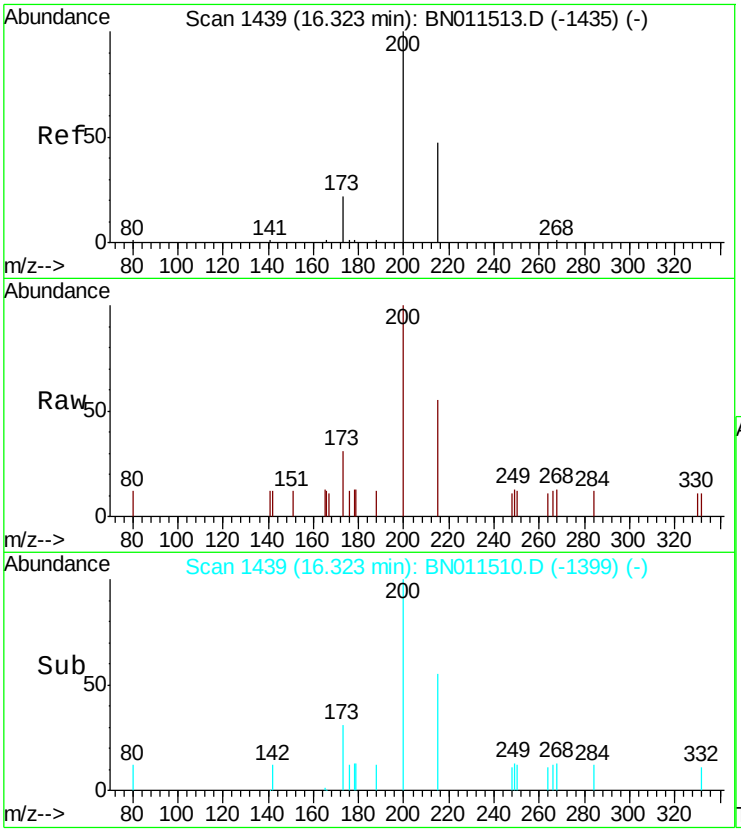


#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.14 min Scan# 1424
Delta R.T. 0.01 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:284 Resp: 1339

Ion	Ratio	Lower	Upper
284	100		
142	37.9	31.7	47.5
249	36.7	27.4	41.2



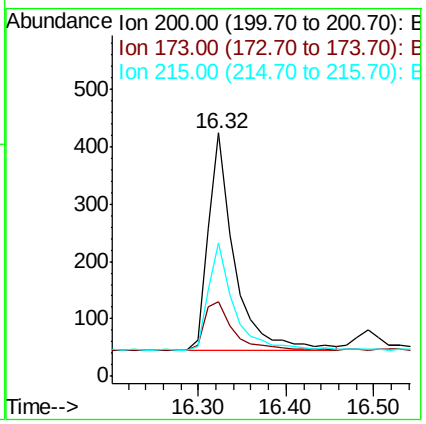


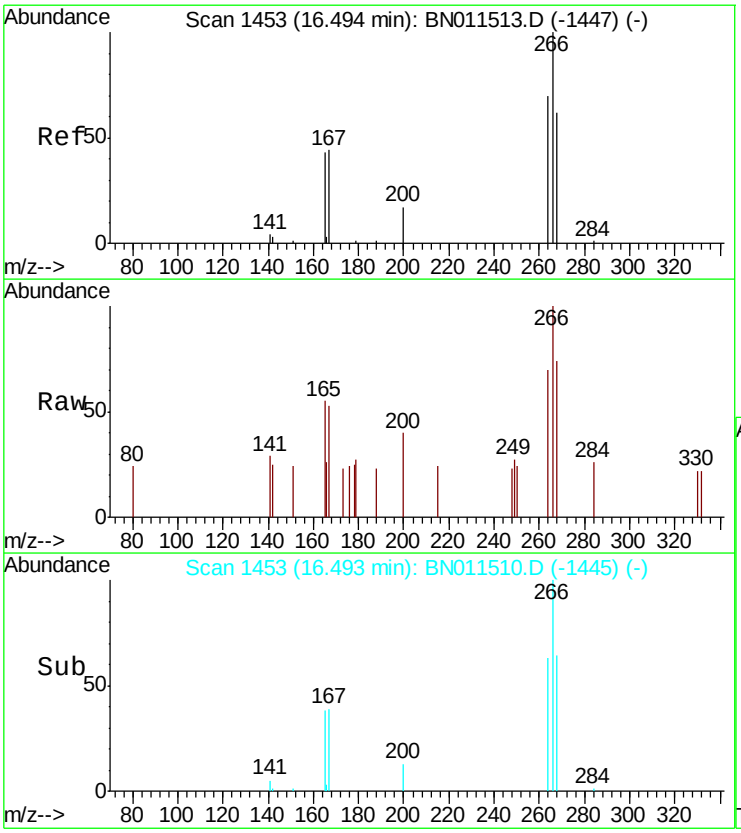
#23
Atrazine
Concen: 0.345 ng
RT: 16.32 min Scan# 1439
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.0	36.0
215	54.7	42.2	63.4

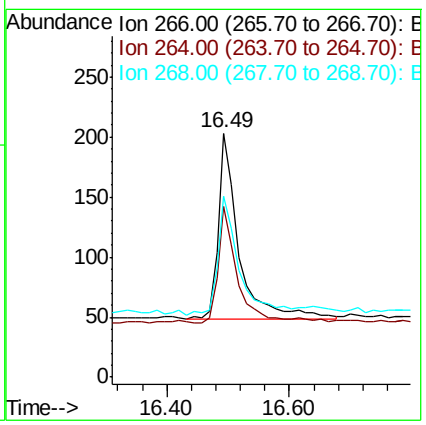


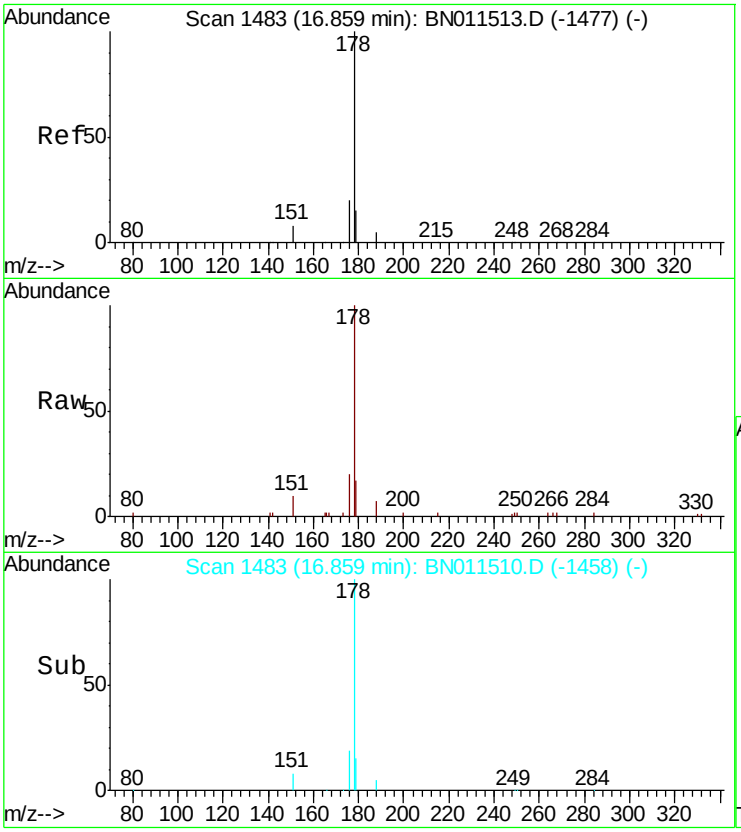


#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.49 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:266 Resp: 375

Ion	Ratio	Lower	Upper
266	100		
264	55.7	53.7	80.5
268	63.5	53.0	79.4



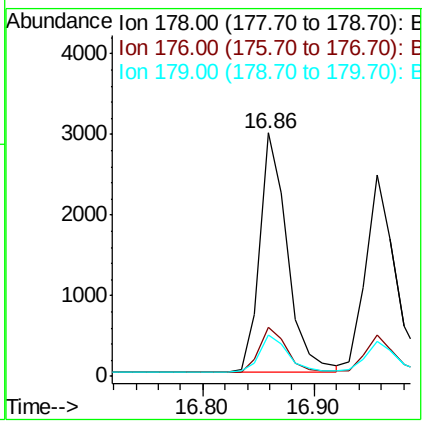


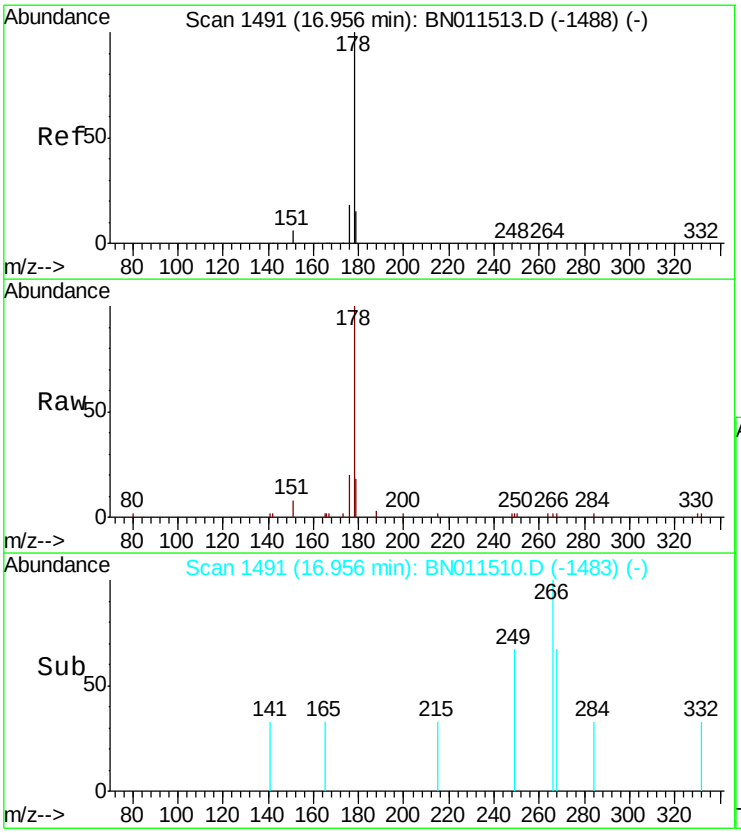
#25
Phenanthrene
Concen: 0.364 ng
RT: 16.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5130

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.3	12.3	18.5

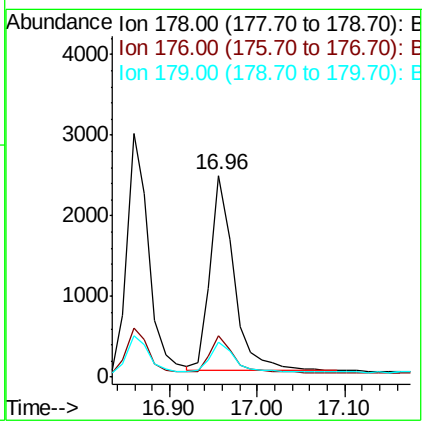


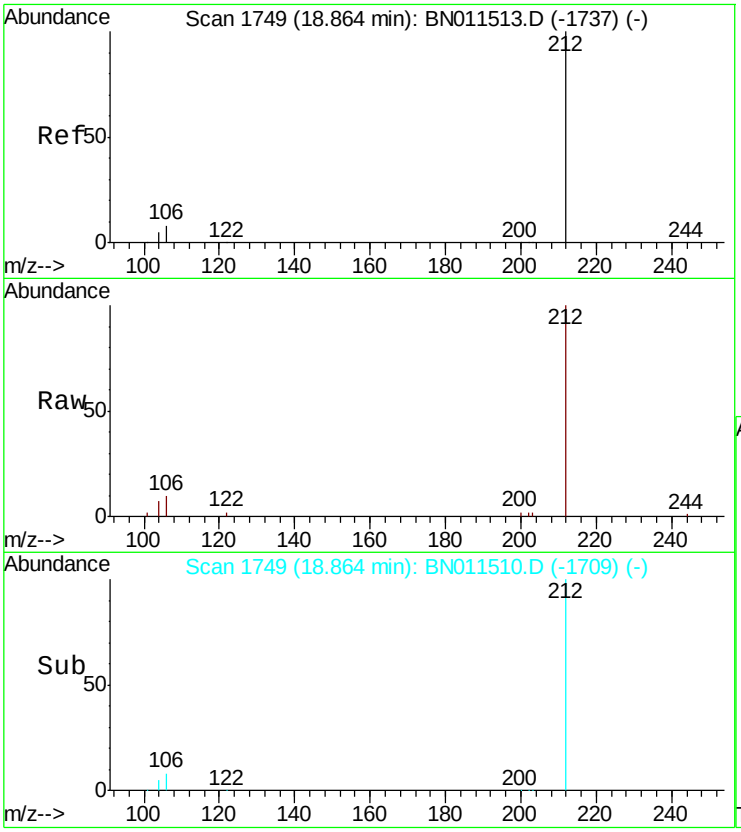


#26
Anthracene
Concen: 0.391 ng
RT: 16.96 min Scan# 1491
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.4	21.6
179	15.4	12.2	18.2



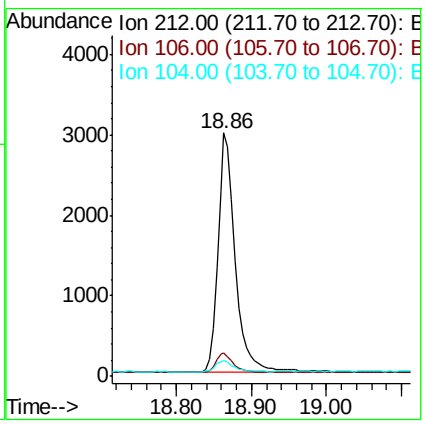


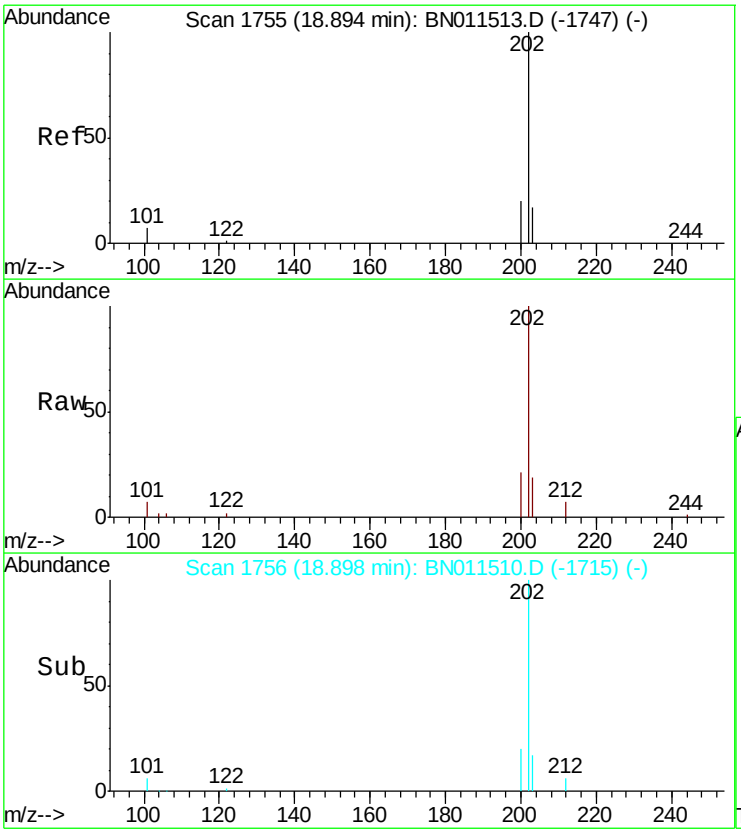
#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 18.86 min Scan# 1749
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 4889

Ion	Ratio	Lower	Upper
212	100		
106	8.1	6.0	9.0
104	4.8	3.7	5.5

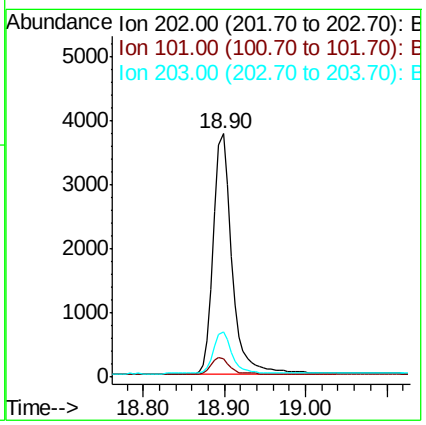


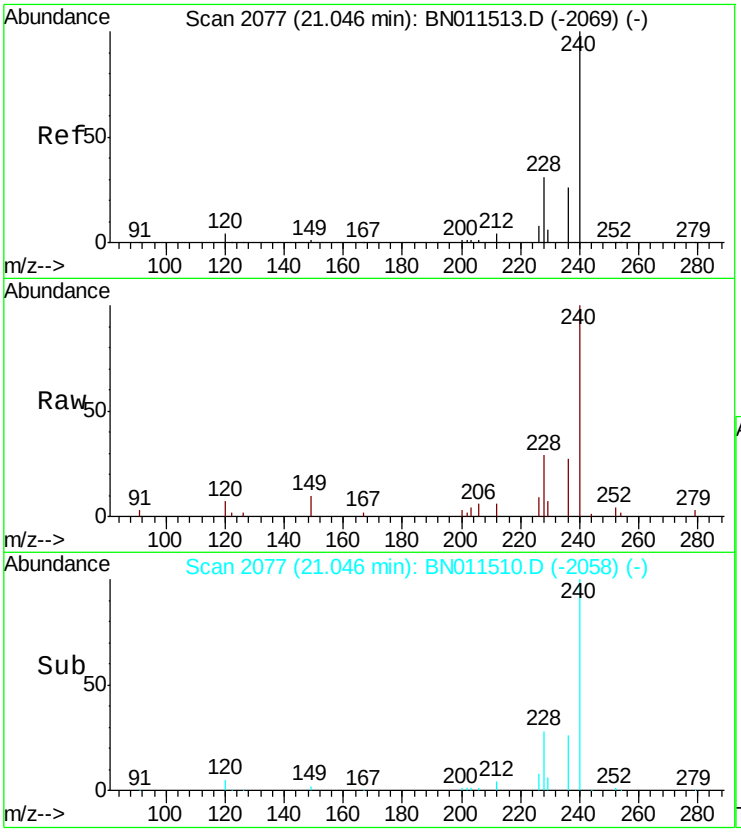


#28
Fluoranthene
Concen: 0.373 ng
RT: 18.90 min Scan# 1756
Delta R.T. 0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:202 Resp: 5964

Ion	Ratio	Lower	Upper
202	100		
101	7.1	5.1	7.7
203	17.1	13.8	20.6



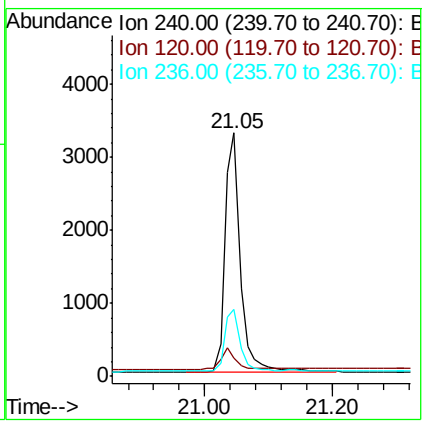


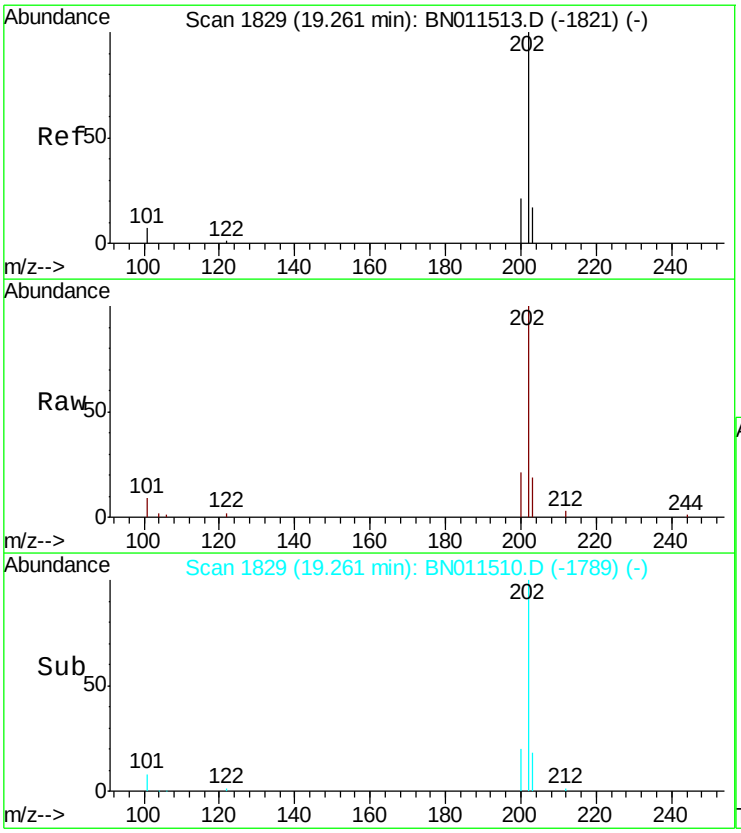
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2077
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 5520

Ion	Ratio	Lower	Upper
240	100		
120	7.3	6.0	9.0
236	27.5	22.6	33.8

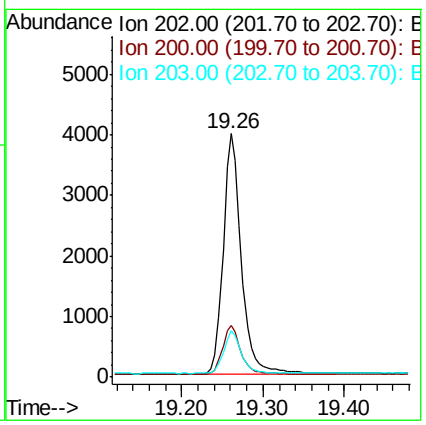


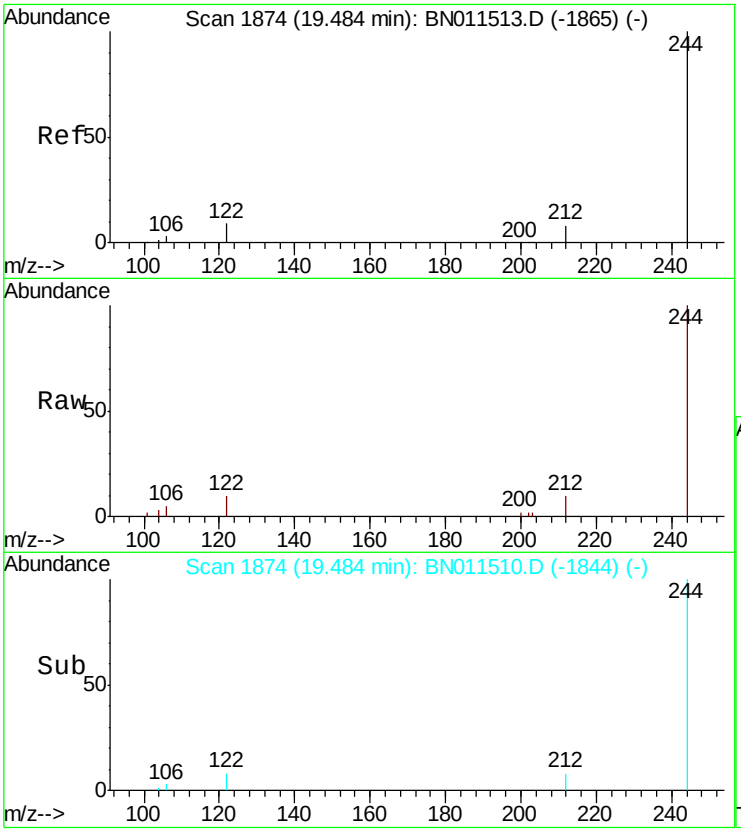


#30
Pyrene
Concen: 0.247 ng
RT: 19.26 min Scan# 1829
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:202 Resp: 6140

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.6	25.0
203	17.9	13.9	20.9



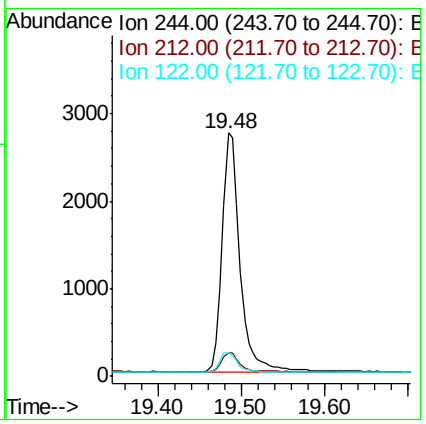


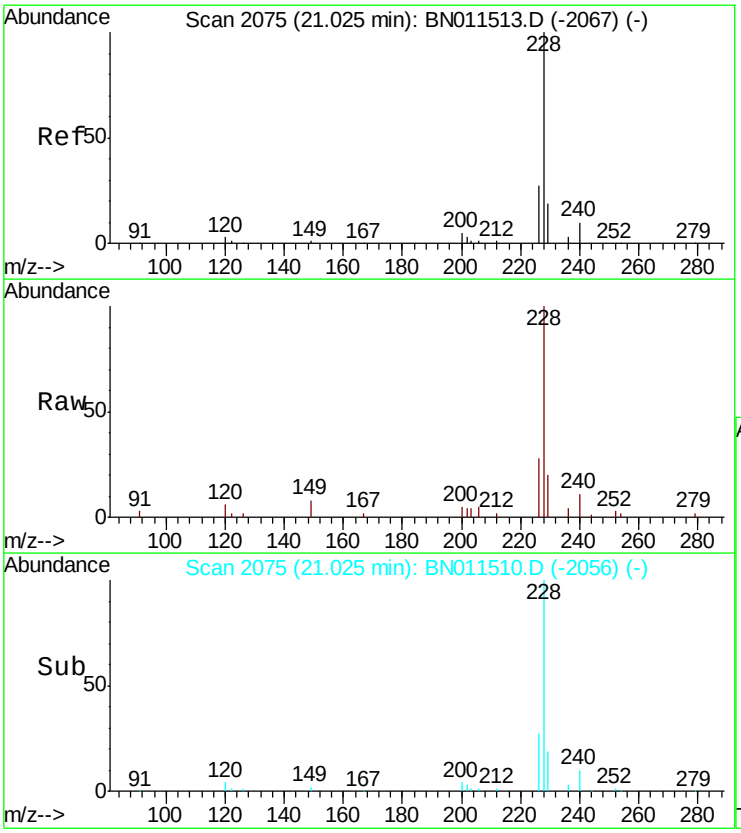
#31
Terphenyl-d14
Concen: 0.248 ng
RT: 19.48 min Scan# 1874
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4139

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.2	12.4
122	9.9	8.4	12.6

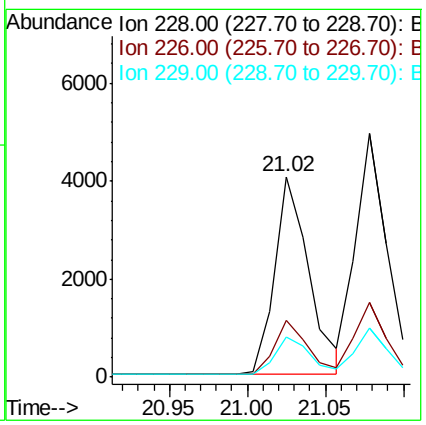


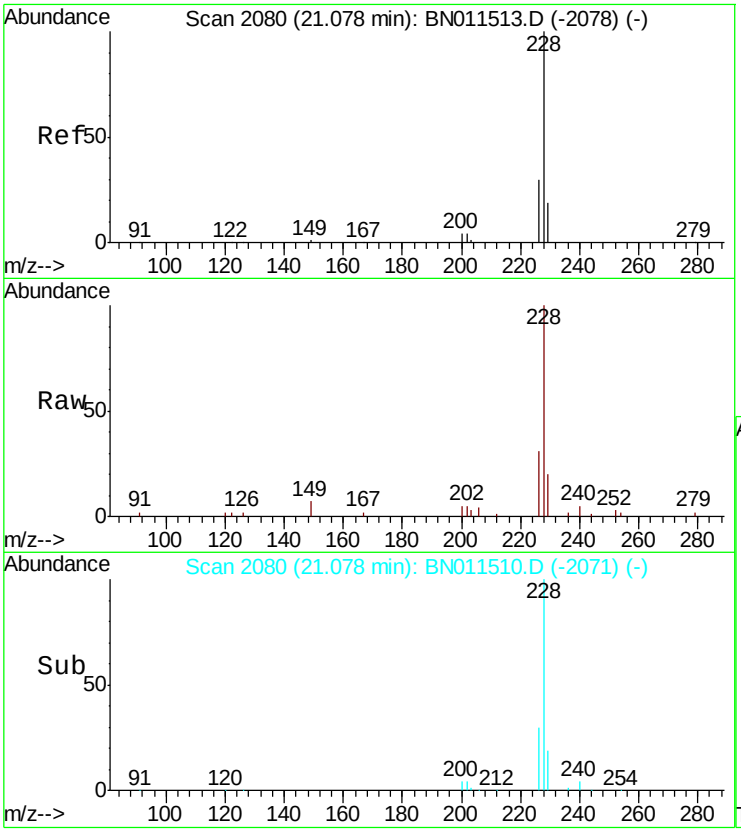


#32
Benzo(a)anthracene
Concen: 0.334 ng
RT: 21.02 min Scan# 2075
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:228 Resp: 6173

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.3	16.2	24.2



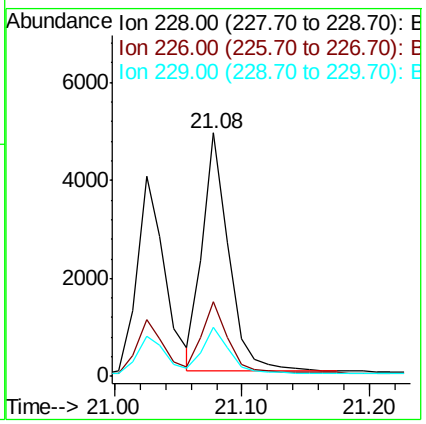


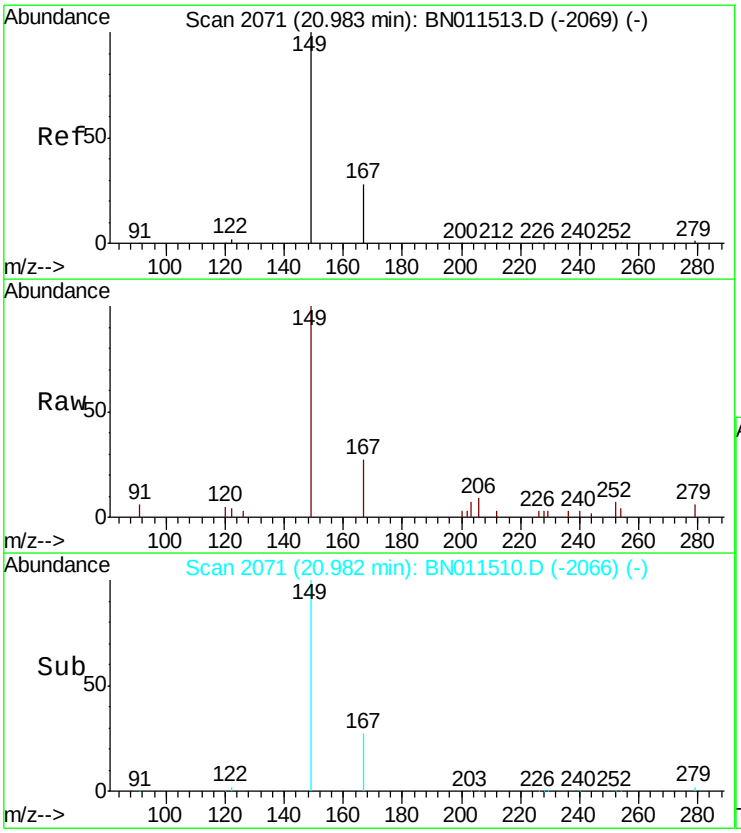
#33
Chrysene
Concen: 0.336 ng
RT: 21.08 min Scan# 2080
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6976

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	20.3	15.9	23.9

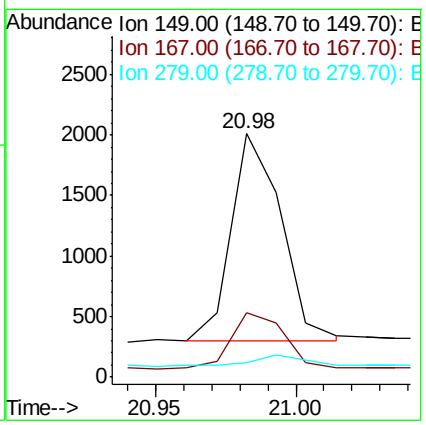


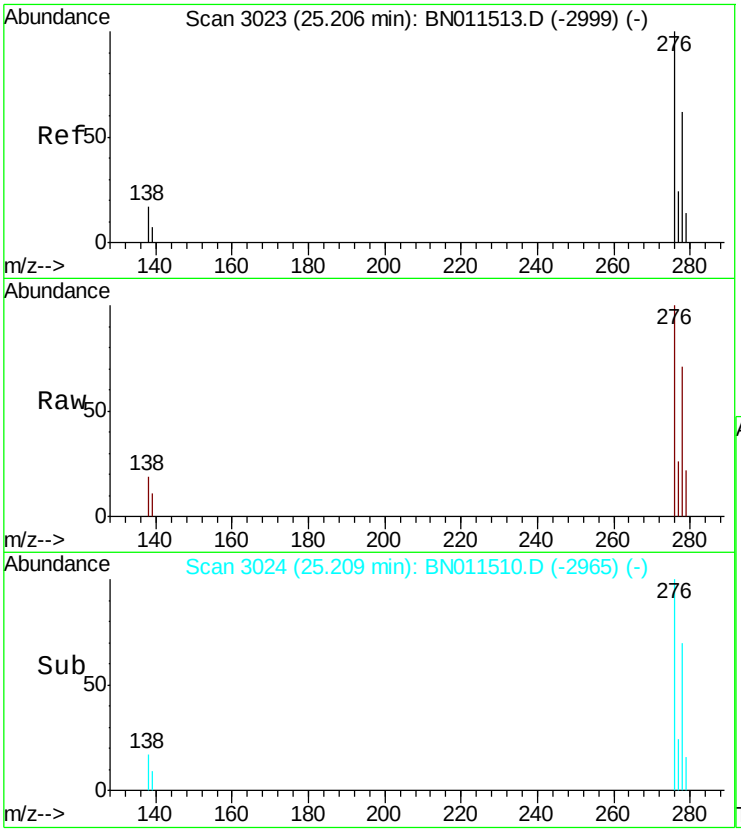


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.214 ng
RT: 20.98 min Scan# 2071
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:149 Resp: 2121

Ion	Ratio	Lower	Upper
149	100		
167	29.3	23.0	34.4
279	5.7	4.1	6.1



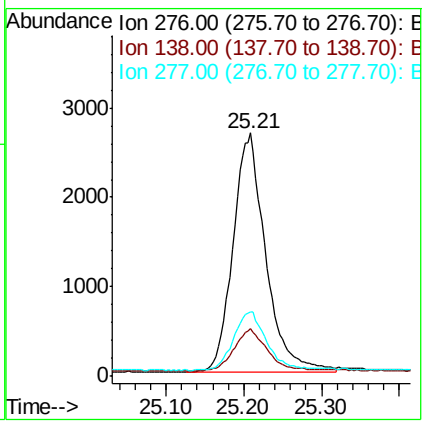


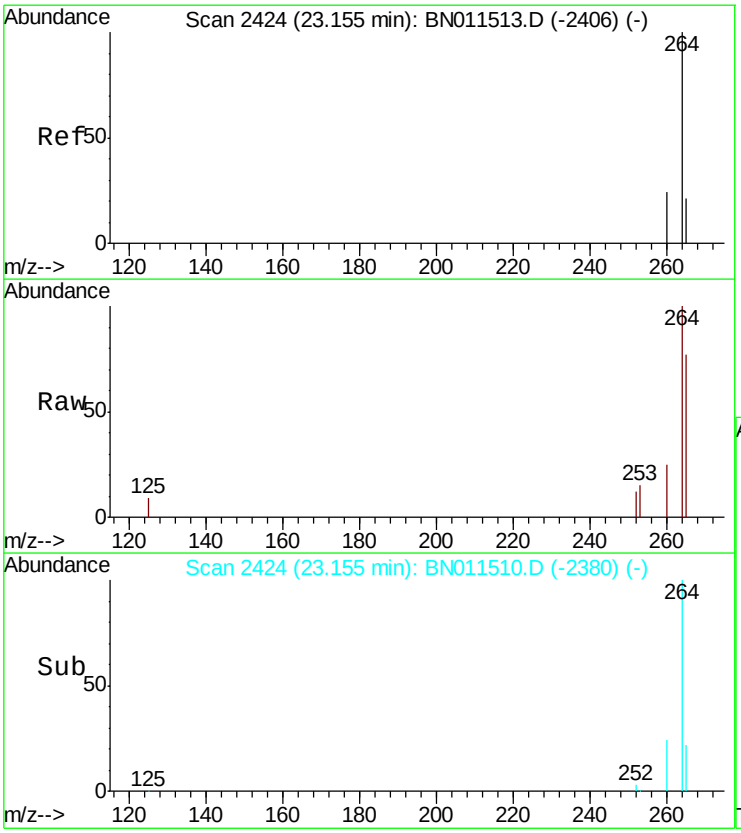
#35
Indeno(1,2,3-cd)pyrene
Concen: 0.383 ng
RT: 25.21 min Scan# 3024
Delta R.T. 0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 7771

Ion	Ratio	Lower	Upper
276	100		
138	17.9	13.6	20.4
277	25.1	19.8	29.8

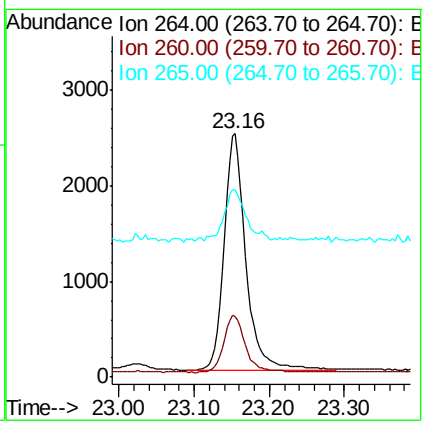


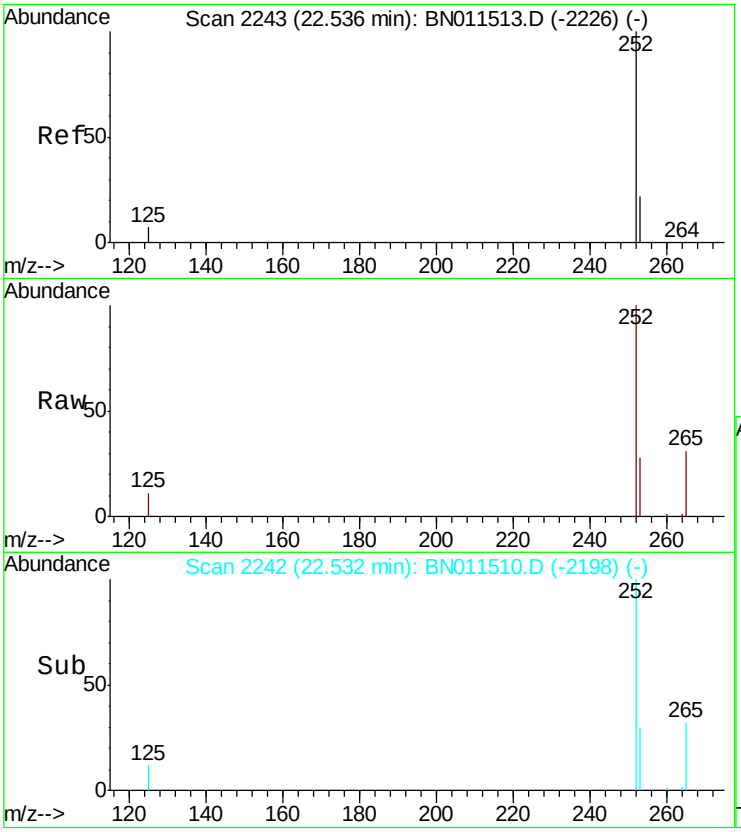


#36
Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2424
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:264 Resp: 4918

Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.0	30.0
265	76.7	62.6	94.0



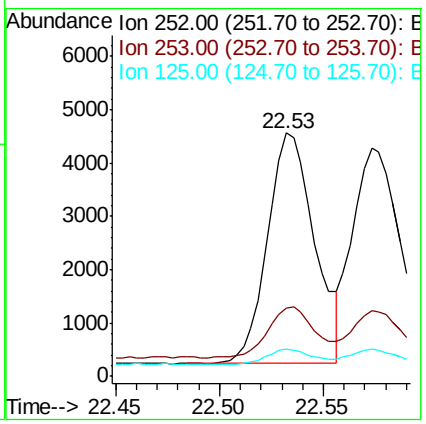


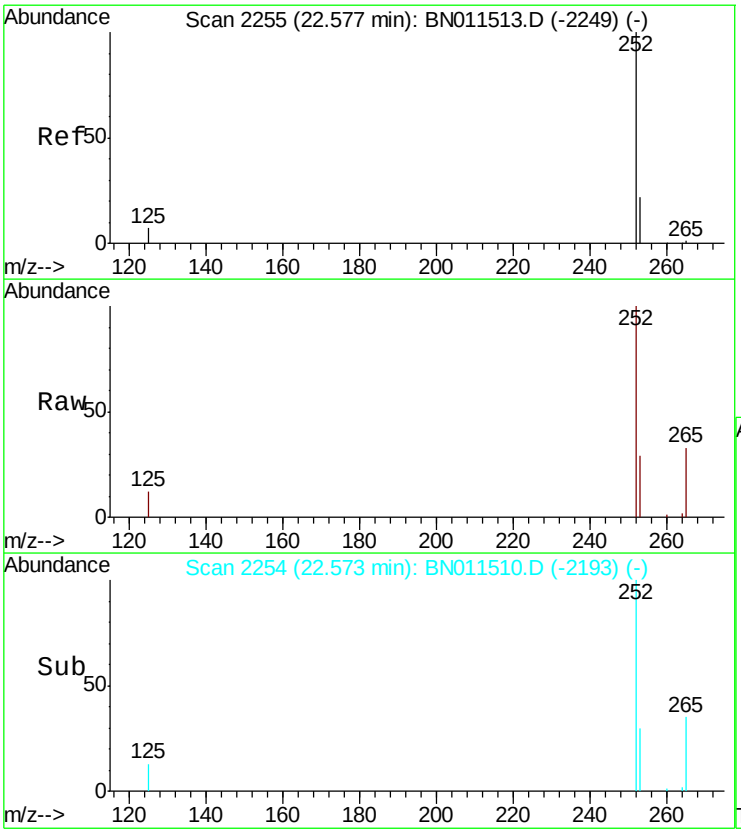
#37
Benzo(b)fluoranthene
Concen: 0.348 ng
RT: 22.53 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 6818

Ion	Ratio	Lower	Upper
252	100		
253	28.1	23.0	34.6
125	11.0	9.0	13.4

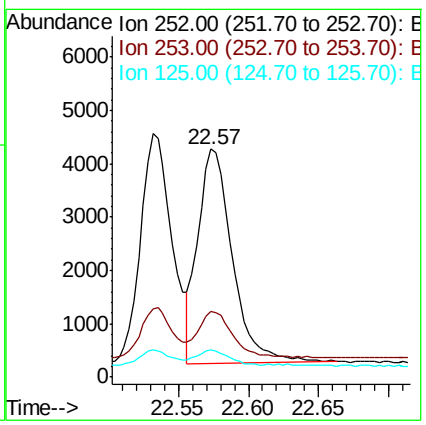


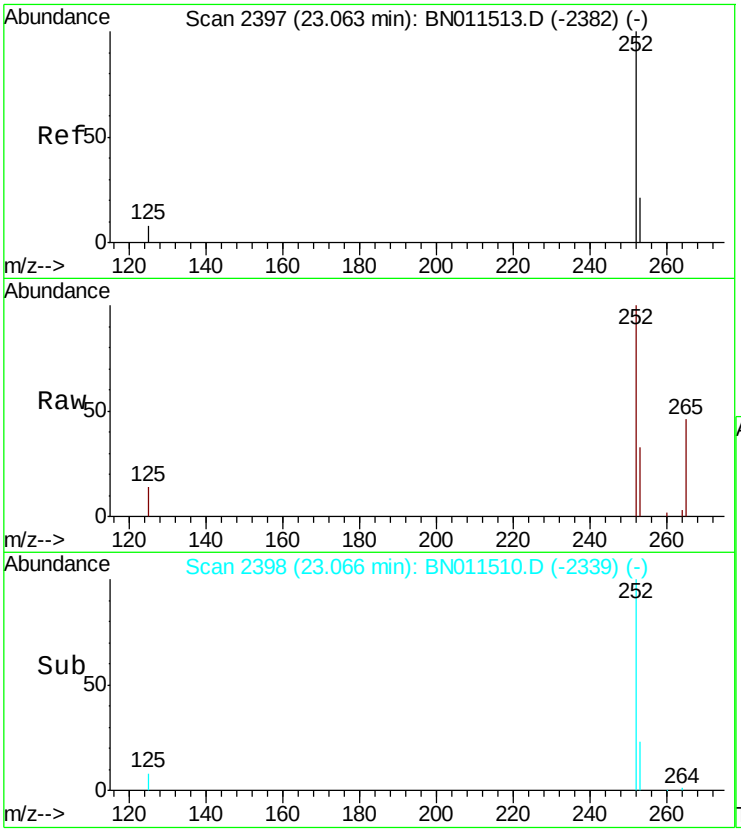


#38
Benzo(k)fluoranthene
Concen: 0.316 ng
RT: 22.57 min Scan# 2254
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:252 Resp: 6832

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.4	35.0
125	11.9	9.7	14.5



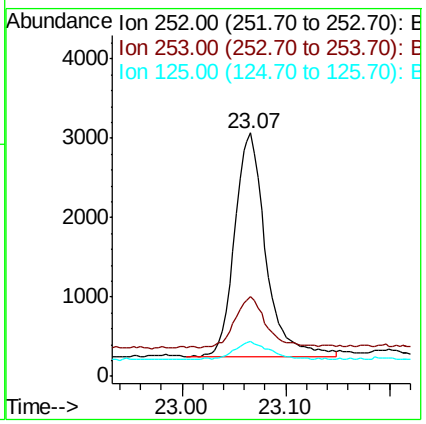


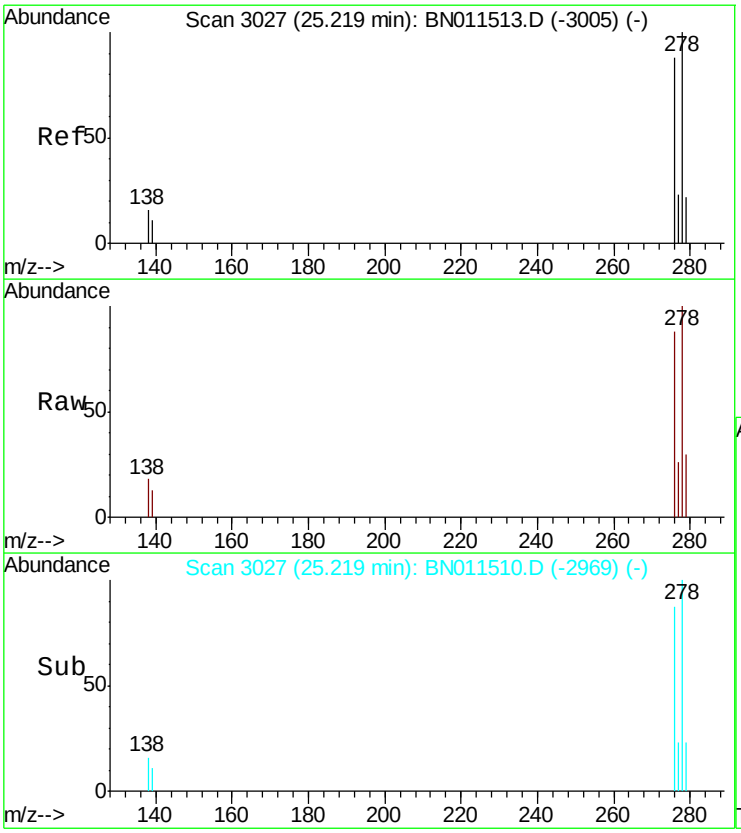
#39
Benzo(a)pyrene
Concen: 0.346 ng
RT: 23.07 min Scan# 2398
Delta R.T. 0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5893

Ion	Ratio	Lower	Upper
252	100		
253	32.9	25.4	38.0
125	14.5	11.6	17.4

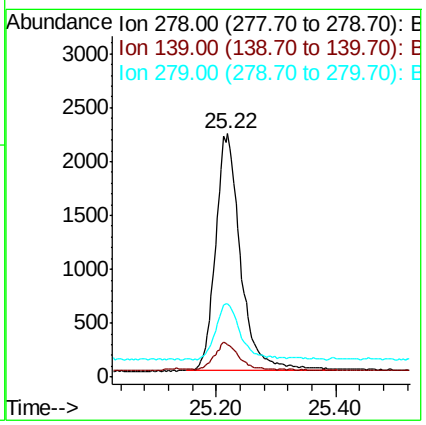


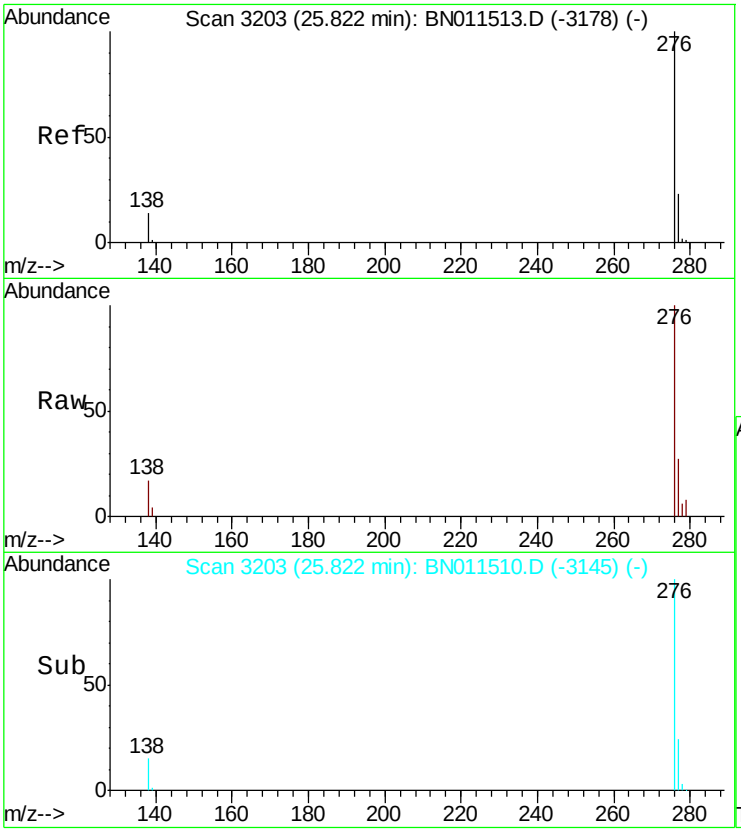


#40
Dibenzo(a,h)anthracene
Concen: 0.365 ng
RT: 25.22 min Scan# 3027
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Tgt Ion:278 Resp: 6420

Ion	Ratio	Lower	Upper
278	100		
139	13.5	11.1	16.7
279	30.0	23.3	34.9





#41
Benzo(g,h,i)perylene
Concen: 0.338 ng
RT: 25.82 min Scan# 3203
Delta R.T. -0.00 min
Lab File: BN011510.D
Acq: 19 Aug 2020 11:01

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 6600

Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.5	30.7
138	17.1	13.2	19.8