Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082520\
Data File : BN011616.D
Acq On : 25 Aug 2020 15:24
Operator : CG/JU
Sample : L3768-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : CS-3MSD

Quant Time: Aug 25 16:06:53 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 25 03:31:11 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	2787	0.40	ng		0.00
7) Naphthalene-d8	10.54	136	11663	0.40	ng		0.00
13) Acenaphthene-d10	14.40	164	6990	0.40	ng		0.00
19) Phenanthrene-d10	17.14	188	14840	0.40	ng		0.00
29) Chrysene-d12	21.33	240	15341	0.40	ng		0.00
36) Perylene-d12	23.59	264	17630	0.40	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.35	112	4163	0.47	ng		0.00
5) Phenol-d6	6.92	99	5508	0.44	ng		0.00
8) Nitrobenzene-d5	8.89	82	5697	0.56	ng		-0.01
11) 2-Methylnaphthalene-d10	12.14	152	7265	0.33	ng		0.00
14) 2,4,6-Tribromophenol	15.88	330	1390	0.36	ng		0.00
15) 2-Fluorobiphenyl	13.01	172	15431	0.57	ng		-0.01
27) Fluoranthene-d10	19.17	212	14685	0.30	ng		0.00
31) Terphenyl-d14	19.78	244	23540	0.60	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.29	88	1090	0.252	ng	#	1
3) n-Nitrosodimethylamine	3.59	42	1430	0.314	ng	#	100
6) bis(2-Chloroethyl)ether	7.18	93	2927	0.327	ng		96
9) Naphthalene	10.59	128	10335	0.312	ng		94
10) Hexachlorobutadiene	10.88	225	2043	0.294	ng	#	99
12) 2-Methylnaphthalene	12.21	142	7420	0.303	ng		97
16) Acenaphthylene	14.10	152	10862	0.295	ng		99
17) Acenaphthene	14.46	154	6851	0.293	ng		96
18) Fluorene	15.45	166	8652	0.286	ng		98
20) 4,6-Dinitro-2-methylphenol	15.51	198	461	0.269	ng	#	56
21) 4-Bromophenyl-phenylether	16.34	248	2553	0.295	ng	#	78
22) Hexachlorobenzene	16.44	284	2961	0.296	ng		99
23) Atrazine	16.60	200	2154	0.252	ng	#	93
24) Pentachlorophenol	16.79	266	1691	0.383	ng		96
25) Phenanthrene	17.18	178	14018	0.304	ng		100
26) Anthracene	17.27	178	13355	0.294	ng		100
28) Fluoranthene	19.20	202	16487	0.295	ng		99
30) Pyrene	19.56	202	17211	0.316	ng		99
32) Benzo(a)anthracene	21.31	228	17735	0.321	ng		98
33) Chrysene	21.36	228	16667	0.316	ng		98
34) Bis(2-ethylhexyl)phthalate	21.27	149	10965	0.266	ng		93
35) Indeno(1,2,3-cd)pyrene	25.87	276	23682	0.368	ng	#	100
37) Benzo(b)fluoranthene	22.92	252	18850	0.295	ng	#	96
38) Benzo(k)fluoranthene	22.96	252	18882	0.297	ng		99
39) Benzo(a)pyrene	23.49	252	17439	0.293	ng	#	94
40) Dibenzo(a,h)anthracene	25.89	278	19871	0.319	ng		98
41) Benzo(g,h,i)perylene	26.56	276	20388	0.338	ng		98

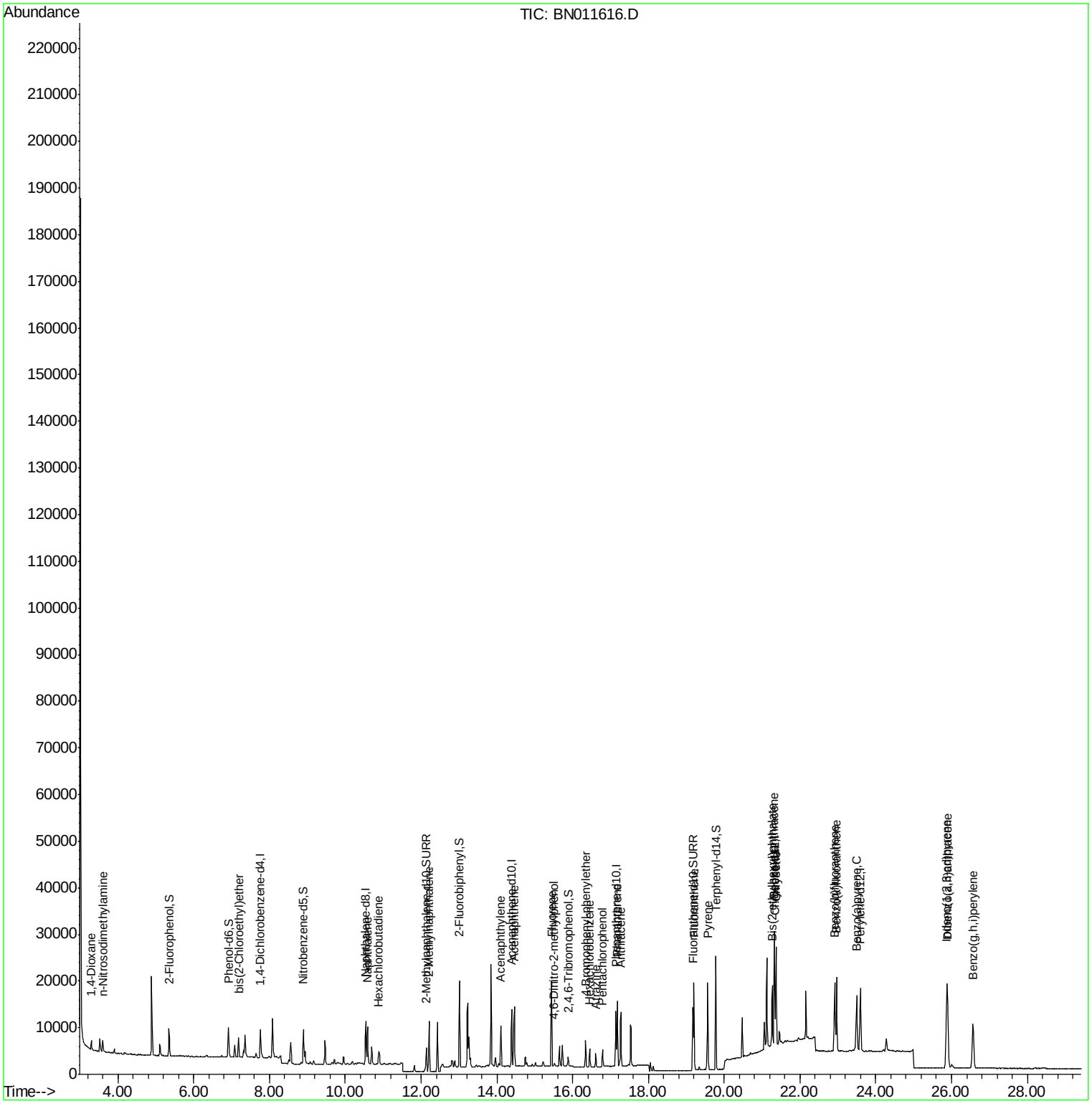
(#) = qualifier out of range (m) = manual integration (+) = signals summed

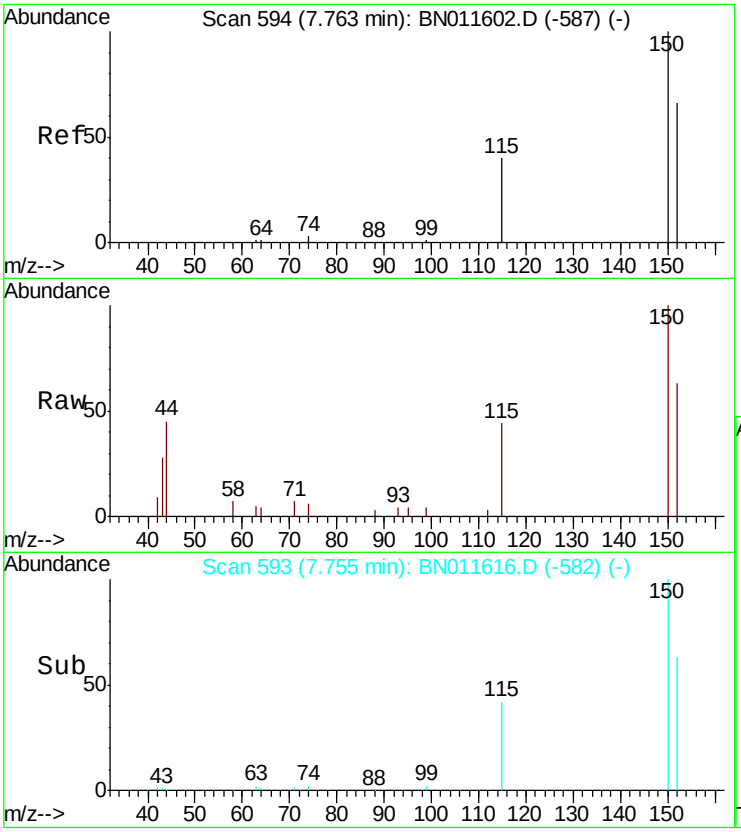
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082520\
Data File : BN011616.D
Acq On : 25 Aug 2020 15:24
Operator : CG/JU
Sample : L3768-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Quant Time: Aug 25 16:06:53 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 25 03:31:11 2020
Response via : Initial Calibration



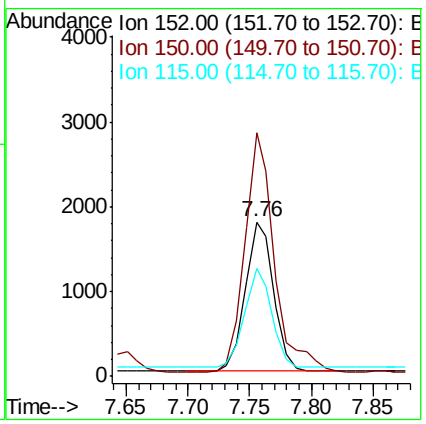


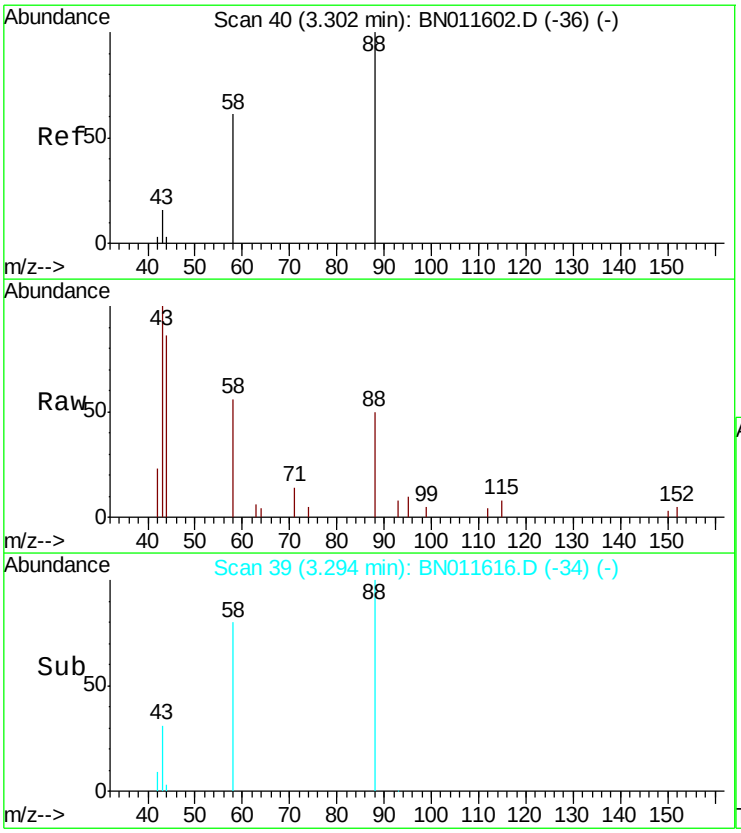
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.76 min Scan# 593
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:152 Resp: 2787

Ion	Ratio	Lower	Upper
152	100		
150	157.6	112.4	168.6
115	69.8	56.9	85.3

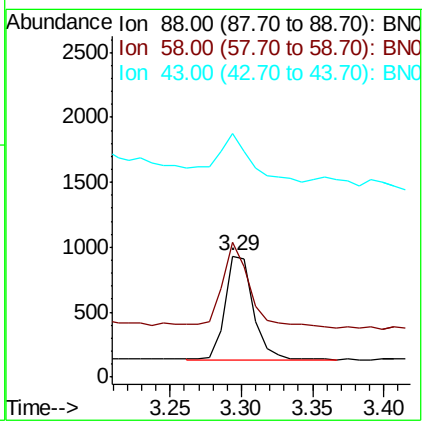


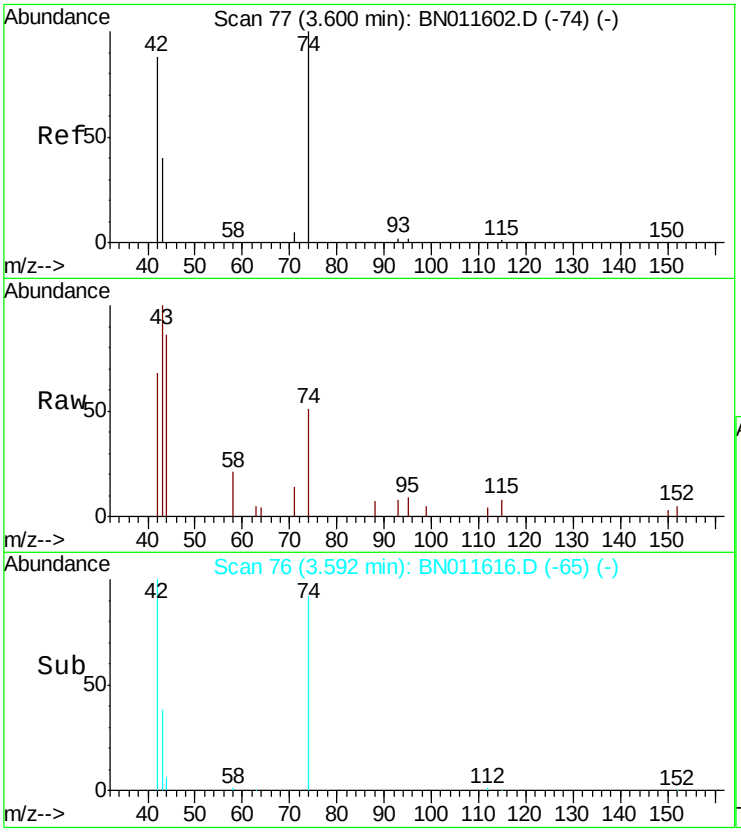


#2
1,4-Dioxane
Concen: 0.252 ng
RT: 3.29 min Scan# 39
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion: 88 Resp: 1090

Ion	Ratio	Lower	Upper
88	100		
58	80.4	3.0	4.4#
43	57.9	0.0	0.0#



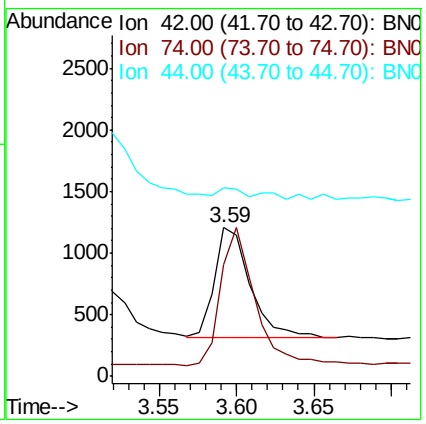


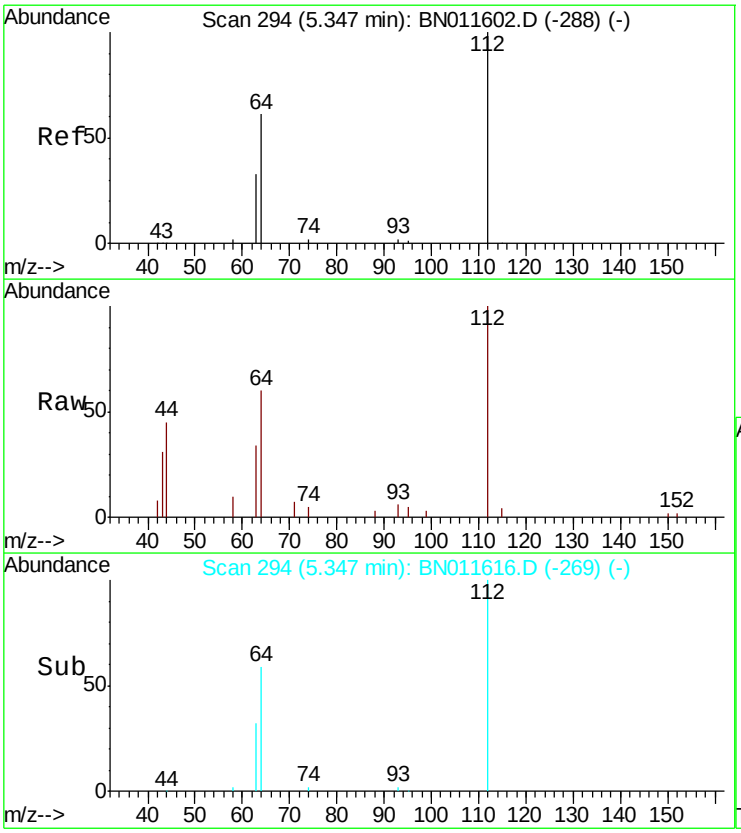
#3
n-Nitrosodimethylamine
Concen: 0.314 ng
RT: 3.59 min Scan# 76
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion: 42 Resp: 1430

Ion	Ratio	Lower	Upper
42	100		
74	121.8	0.0	0.0#
44	10.2	8.2	12.4

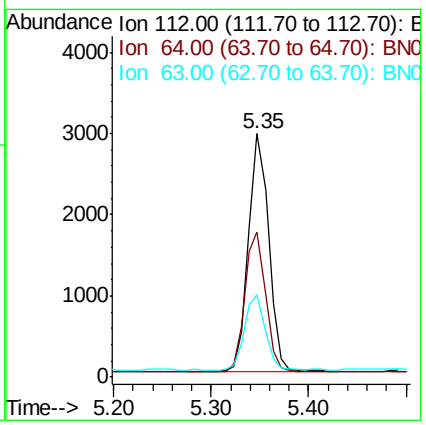


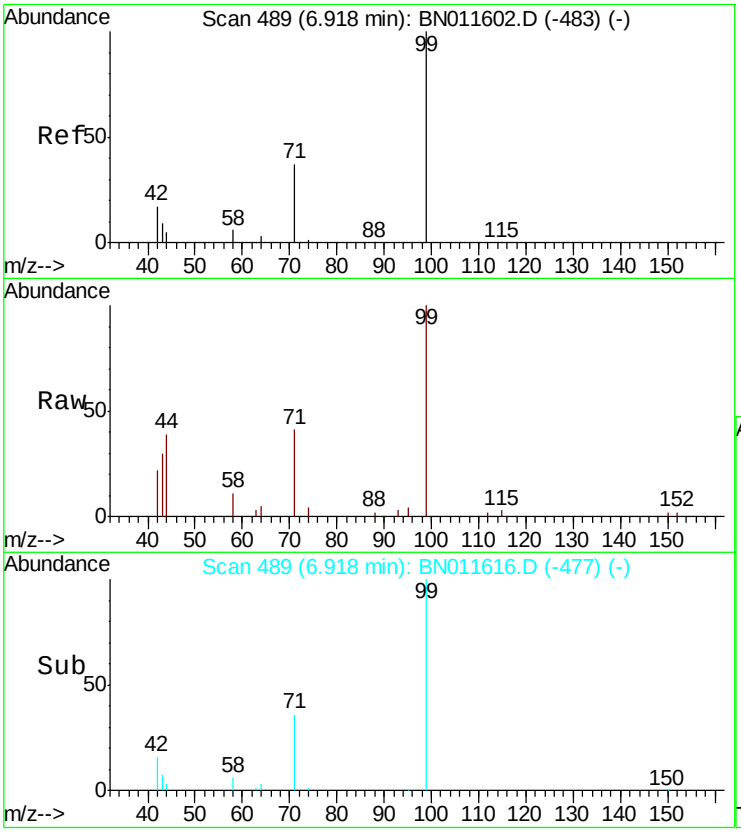


#4
2-Fluorophenol
Concen: 0.467 ng
RT: 5.35 min Scan# 294
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:112 Resp: 4163

Ion	Ratio	Lower	Upper
112	100		
64	60.3	49.6	74.4
63	32.5	26.4	39.6



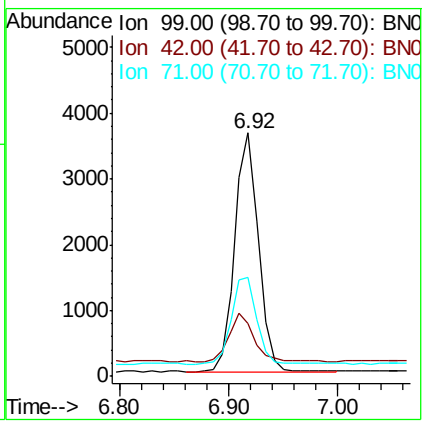


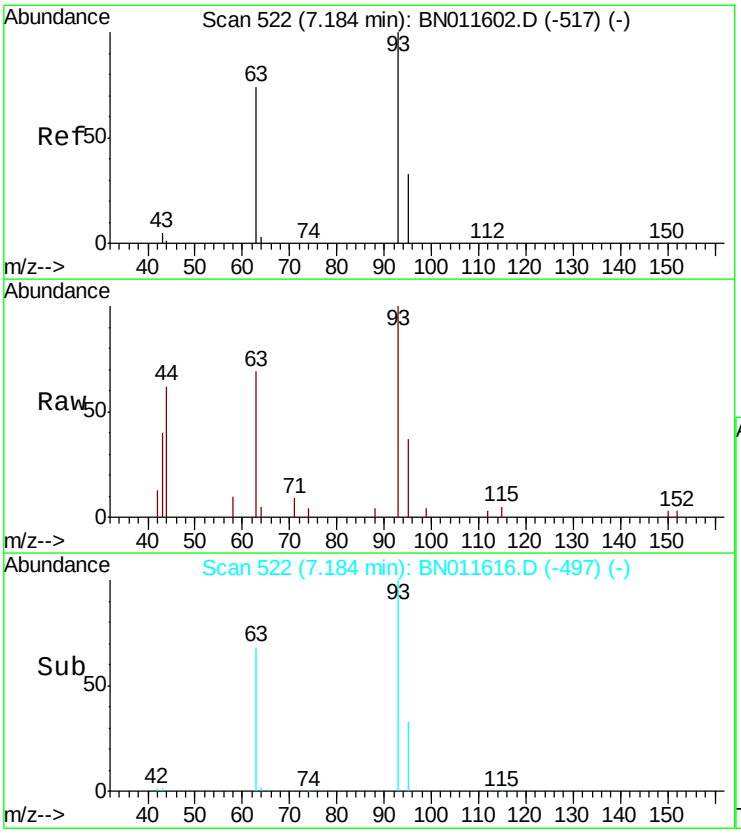
#5
Phenol-d6
Concen: 0.437 ng
RT: 6.92 min Scan# 489
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion: 99 Resp: 5508

Ion	Ratio	Lower	Upper
99	100		
42	21.8	0.0	0.0#
71	38.3	0.0	0.0#

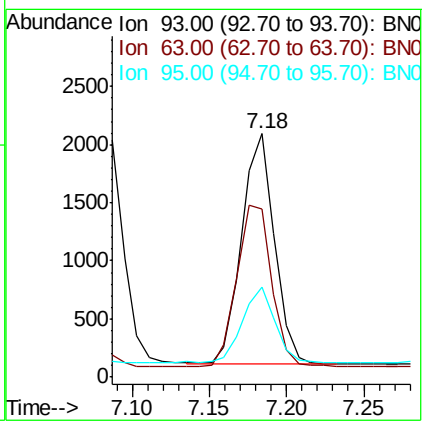


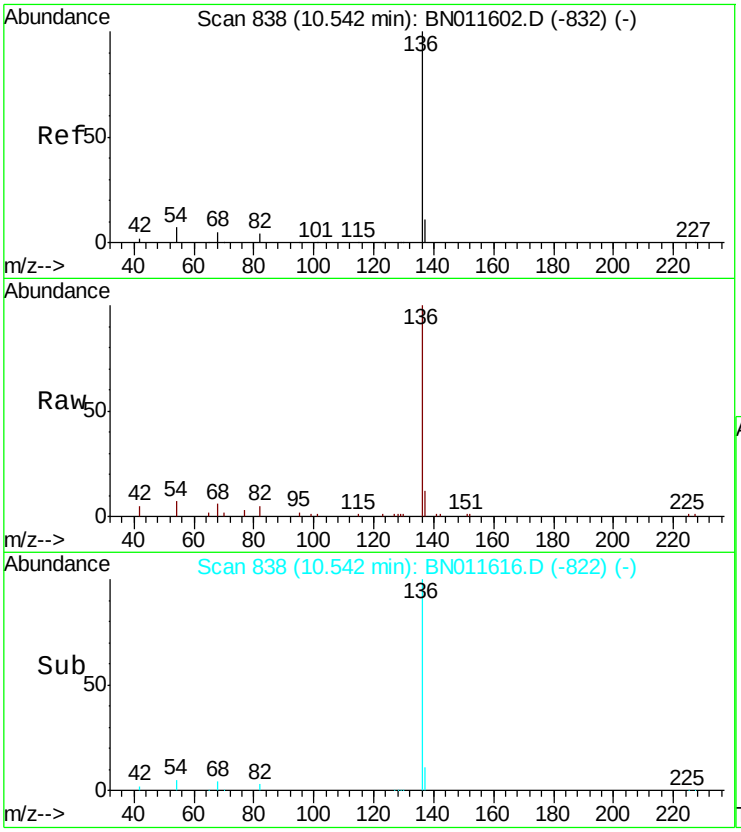


#6
bis(2-Chloroethyl)ether
Concen: 0.327 ng
RT: 7.18 min Scan# 522
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion: 93 Resp: 2927

Ion	Ratio	Lower	Upper
93	100		
63	75.5	57.8	86.8
95	33.2	28.3	42.5



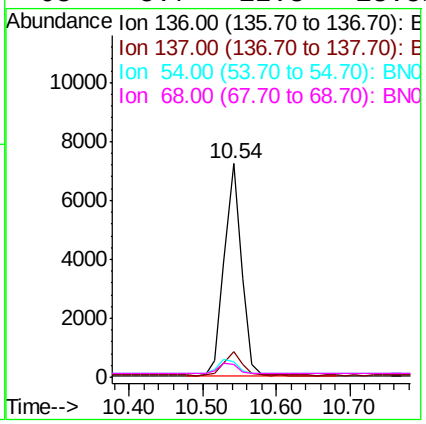


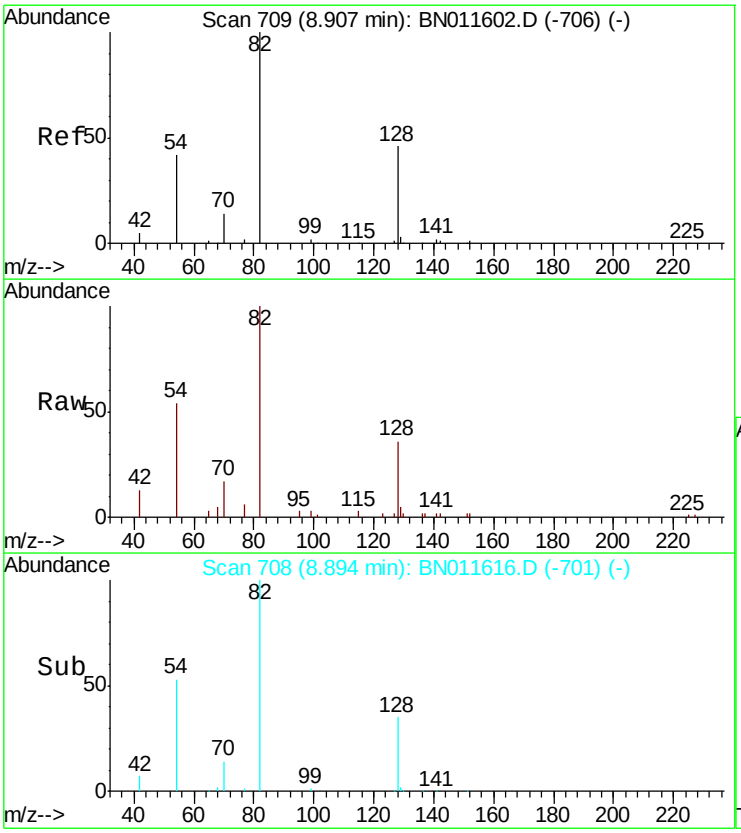
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.54 min Scan# 838
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:136 Resp: 11663

Ion	Ratio	Lower	Upper
136	100		
137	11.9	11.5	17.3
54	7.1	11.9	17.9#
68	5.7	12.3	18.5#

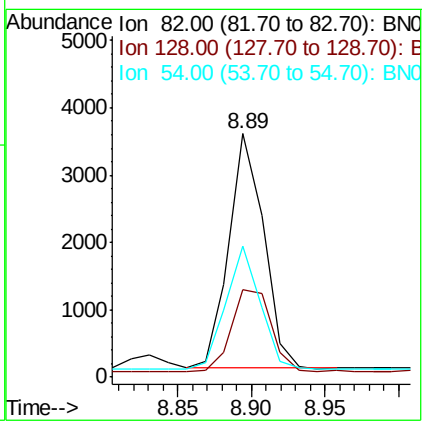


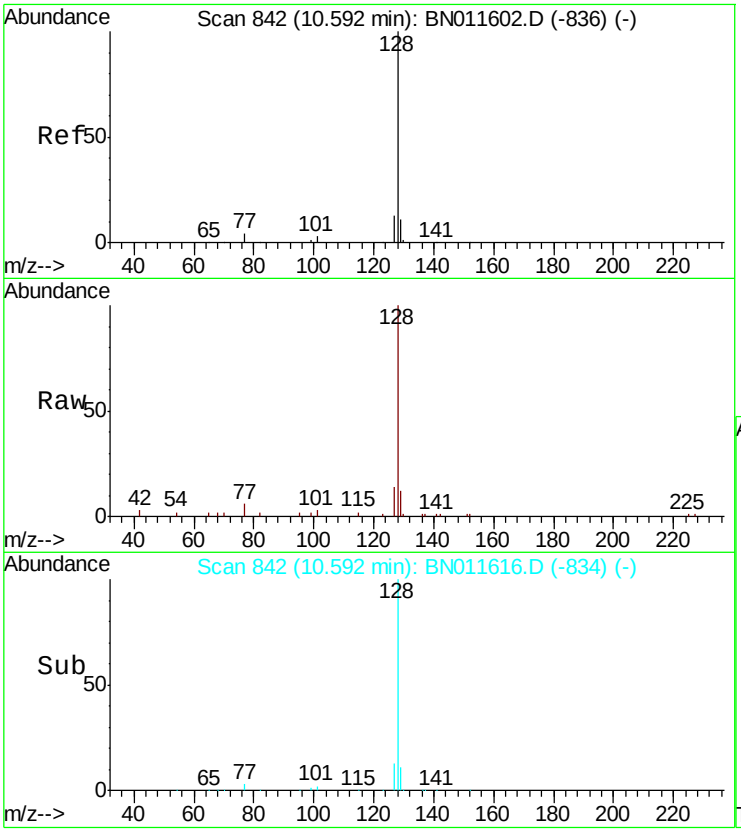


#8
Nitrobenzene-d5
Concen: 0.564 ng
RT: 8.89 min Scan# 708
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion: 82 Resp: 5697

Ion	Ratio	Lower	Upper
82	100		
128	36.0	31.1	46.7
54	53.9	37.1	55.7



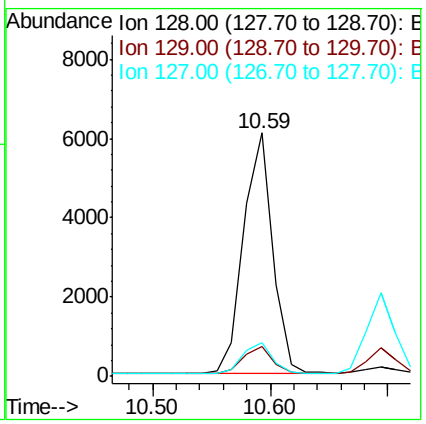


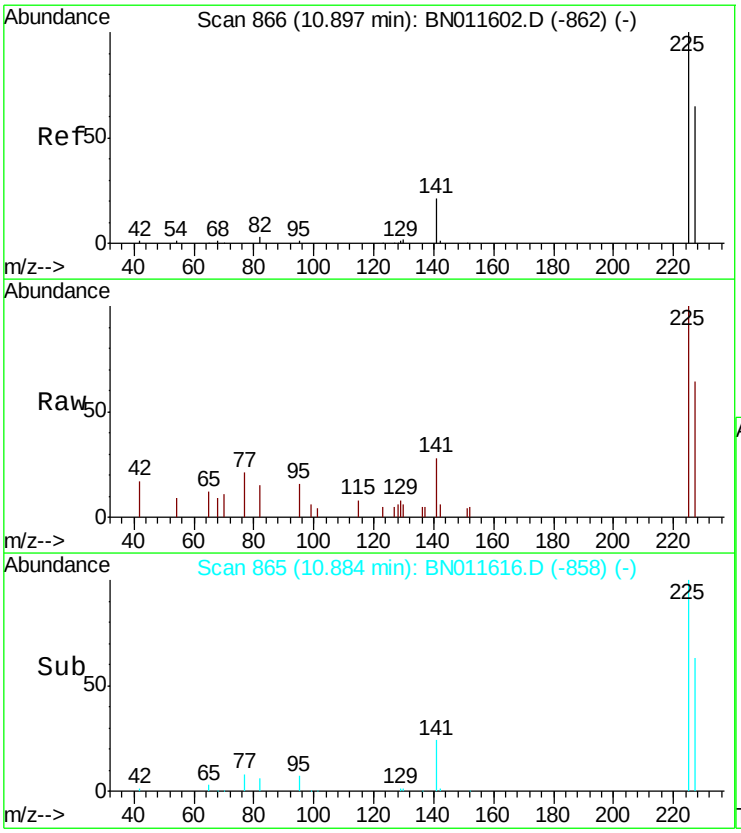
#9
Naphthalene
Concen: 0.312 ng
RT: 10.59 min Scan# 842
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:128 Resp: 10335

Ion	Ratio	Lower	Upper
128	100		
129	12.1	11.0	16.4
127	13.8	13.5	20.3

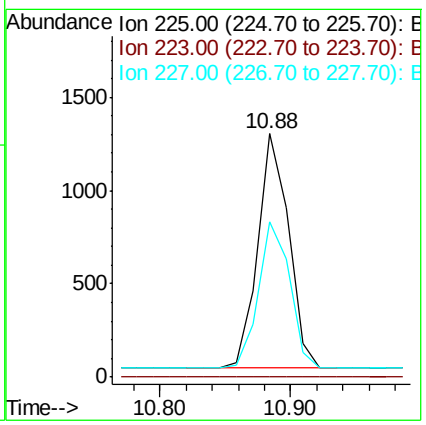


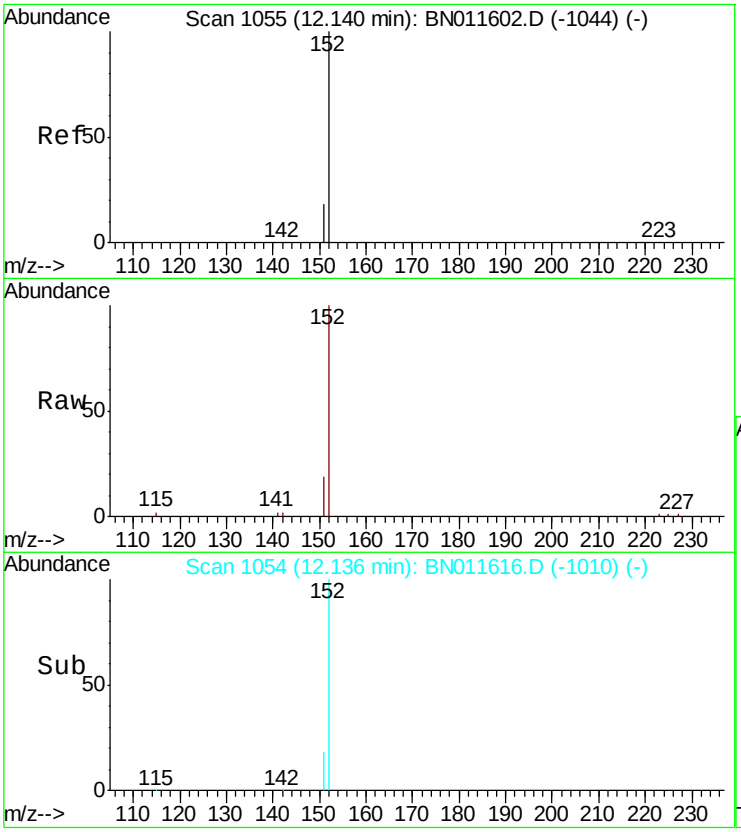


#10
Hexachlorobutadiene
Concen: 0.294 ng
RT: 10.88 min Scan# 865
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:225 Resp: 2043

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.2	75.2



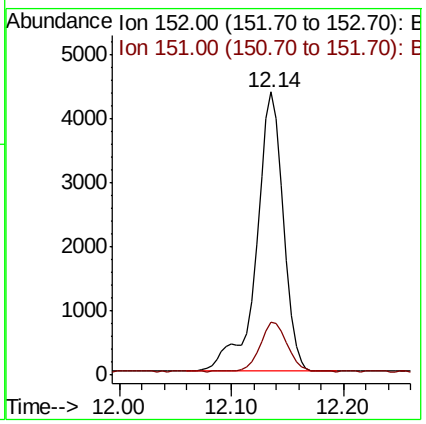


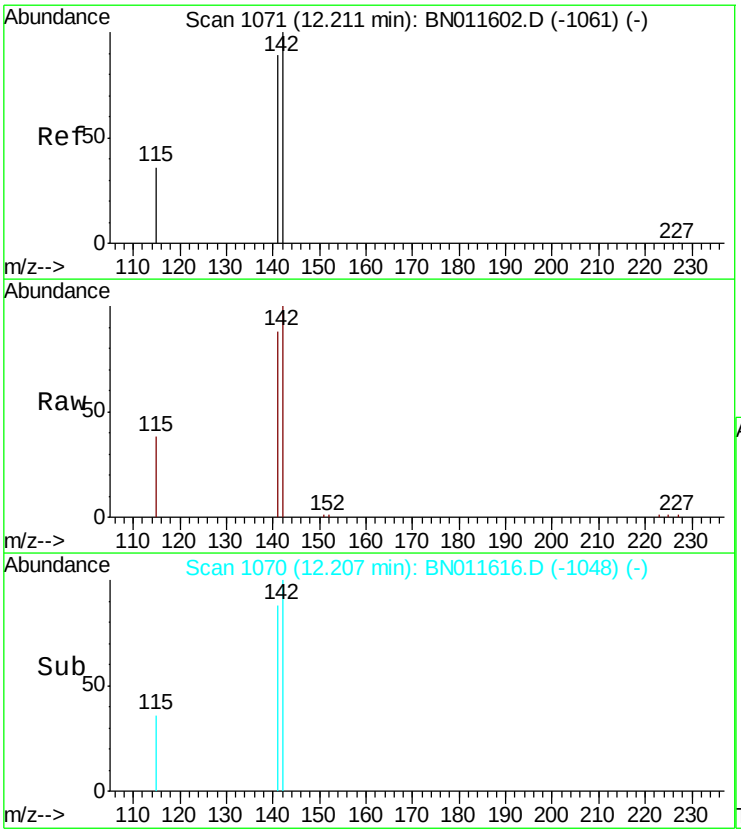
#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.14 min Scan# 1054
Delta R.T. -0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:152 Resp: 7265

Ion	Ratio	Lower	Upper
152	100		
151	17.9	16.4	24.6

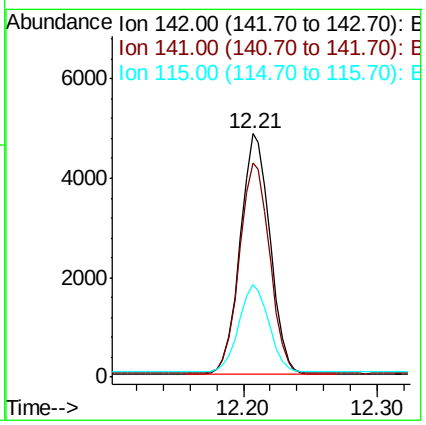


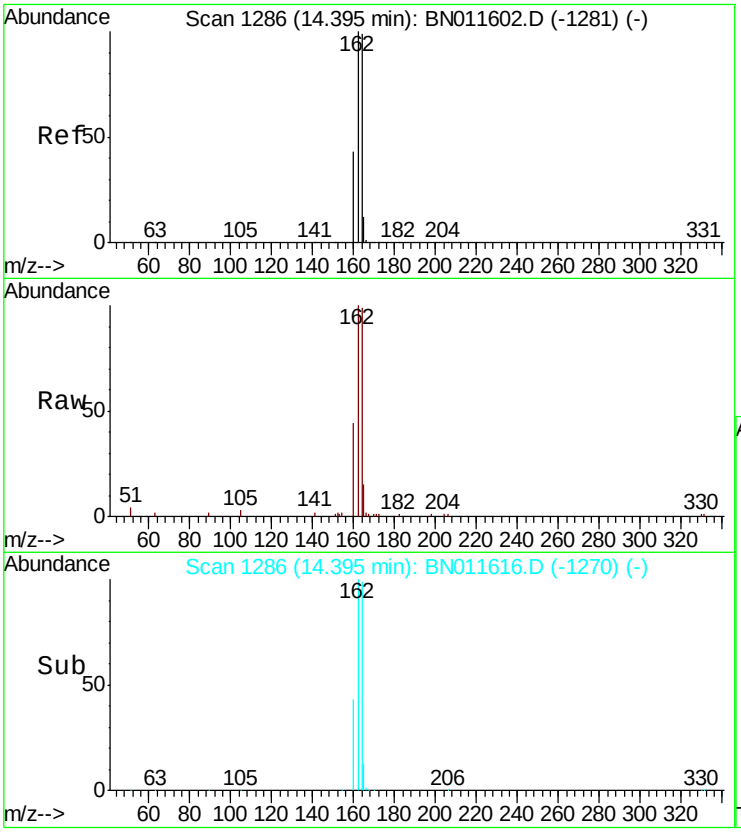


#12
2-Methylnaphthalene
Concen: 0.303 ng
RT: 12.21 min Scan# 1070
Delta R.T. -0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:142 Resp: 7420

Ion	Ratio	Lower	Upper
142	100		
141	88.1	72.7	109.1
115	38.1	32.7	49.1



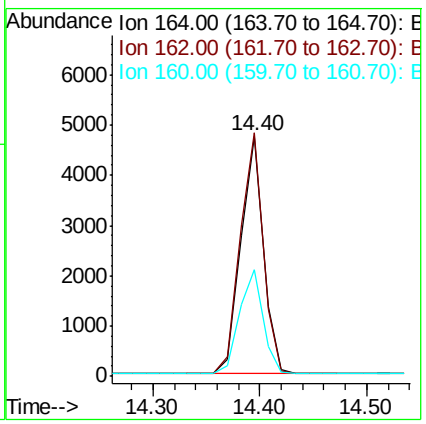


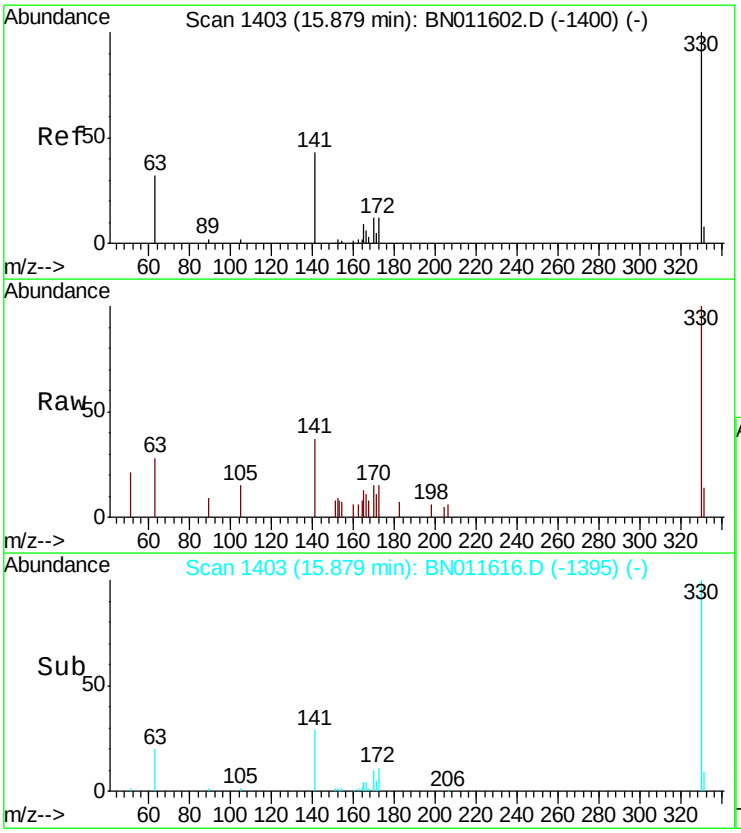
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.40 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:164 Resp: 6990

Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.8	121.2
160	44.4	35.6	53.4

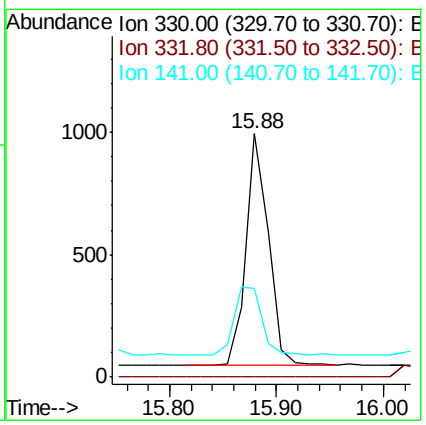


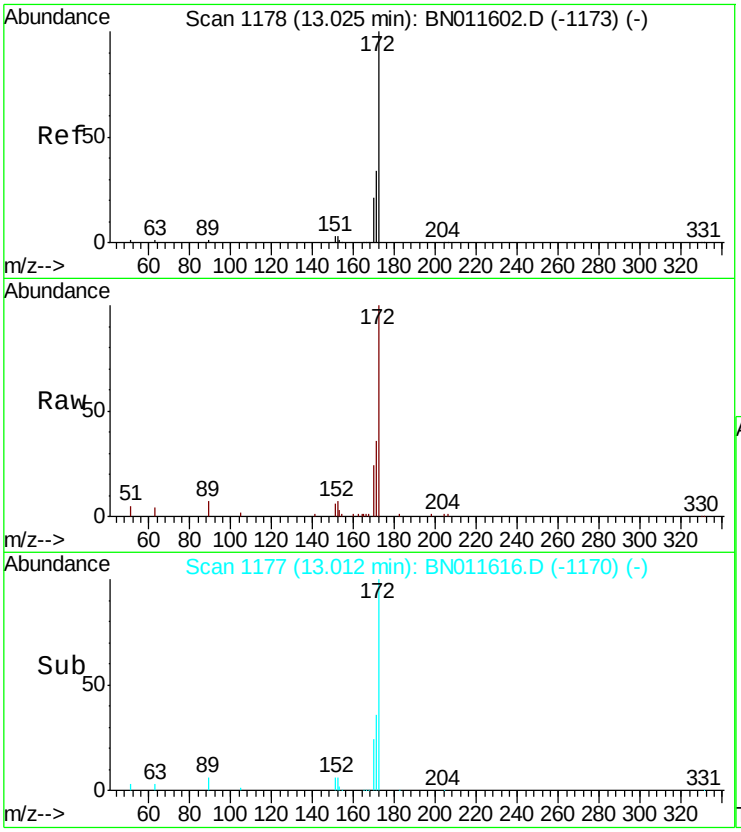


#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.88 min Scan# 1403
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:330 Resp: 1390

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.8	29.4	44.2



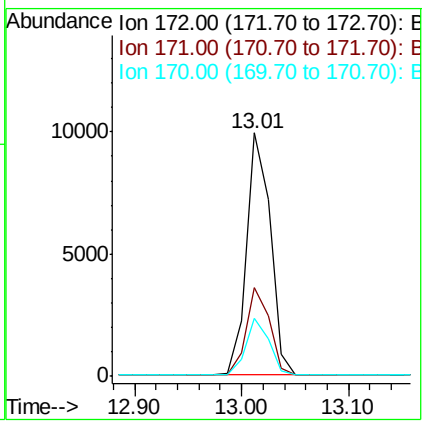


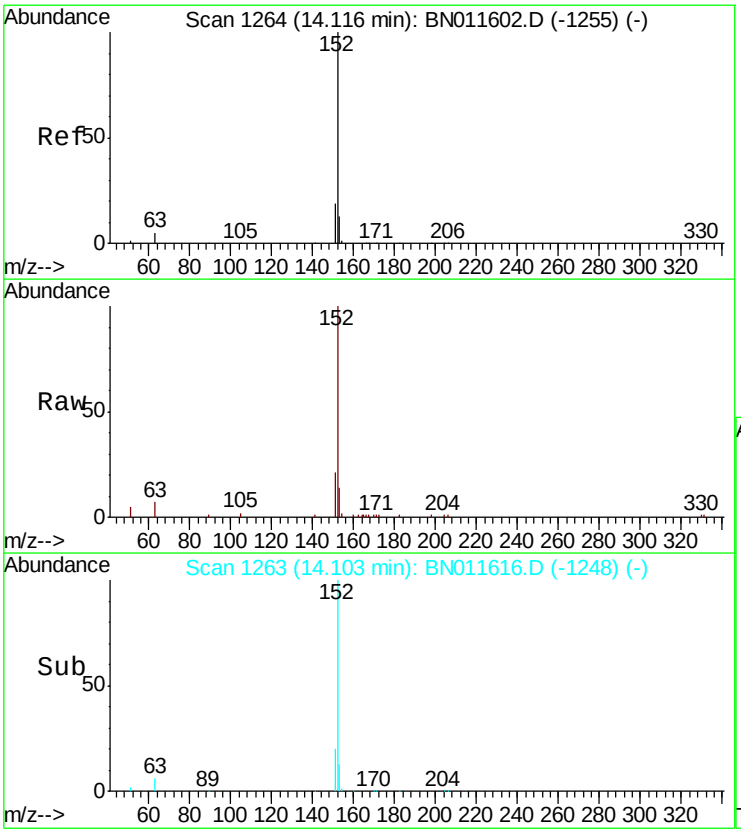
#15
2-Fluorobiphenyl
Concen: 0.567 ng
RT: 13.01 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:172 Resp: 15431

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	42.8
170	24.0	18.2	27.2

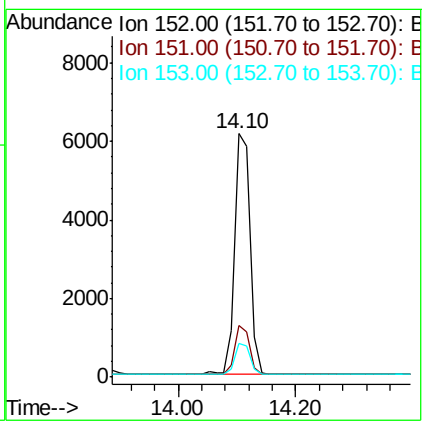


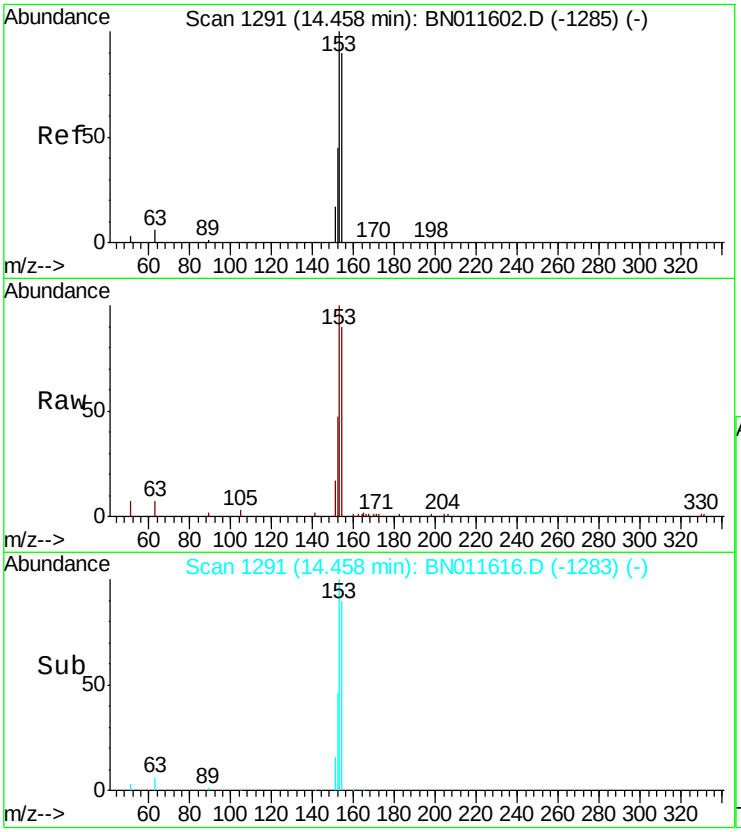


#16
Acenaphthylene
Concen: 0.295 ng
RT: 14.10 min Scan# 1263
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:152 Resp: 10862

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	12.9	11.0	16.4



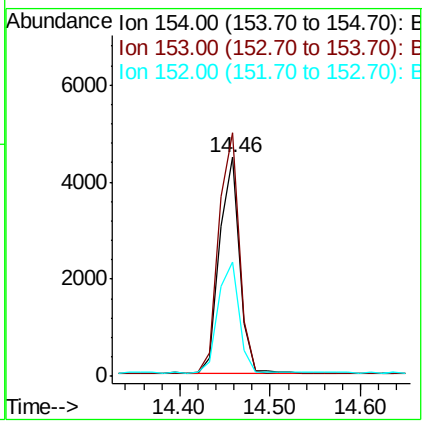


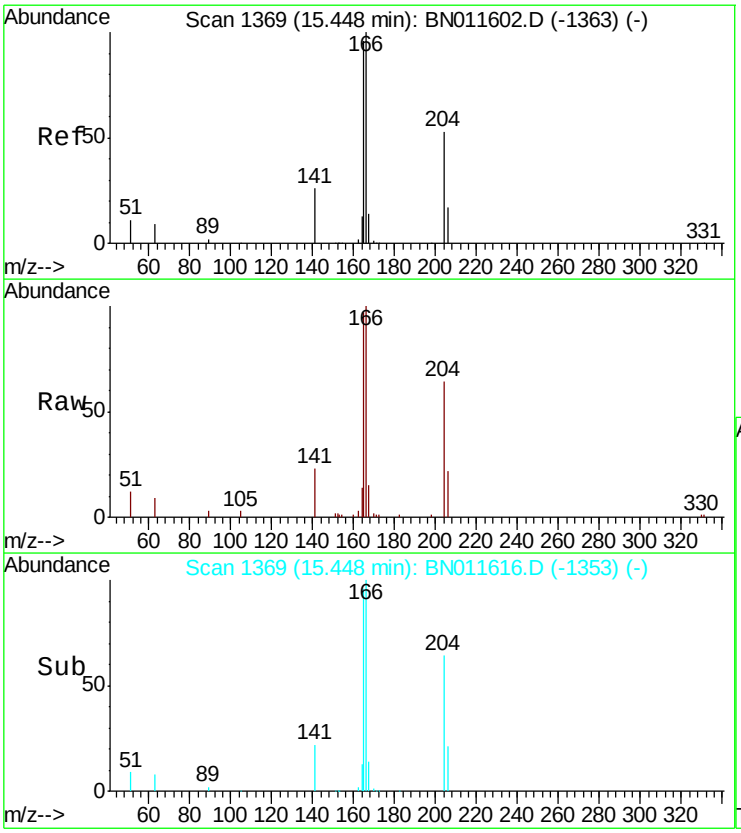
#17
Acenaphthene
Concen: 0.293 ng
RT: 14.46 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:154 Resp: 6851

Ion	Ratio	Lower	Upper
154	100		
153	112.7	86.6	130.0
152	53.1	40.1	60.1

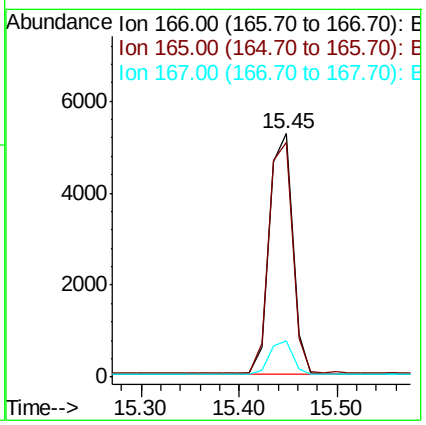


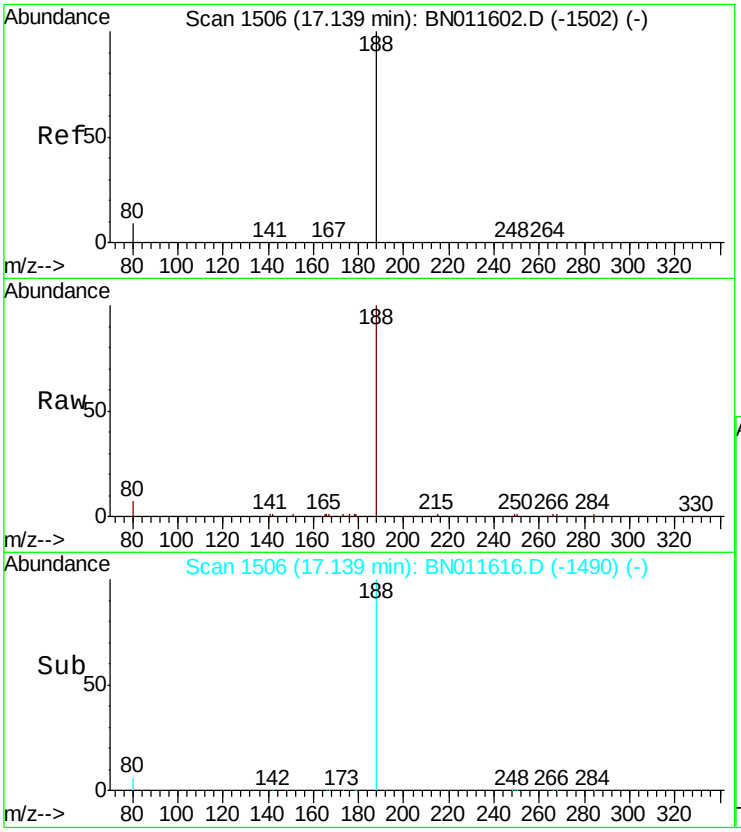


#18
Fluorene
Concen: 0.286 ng
RT: 15.45 min Scan# 1369
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:166 Resp: 8652

Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.4	116.2
167	13.8	11.5	17.3



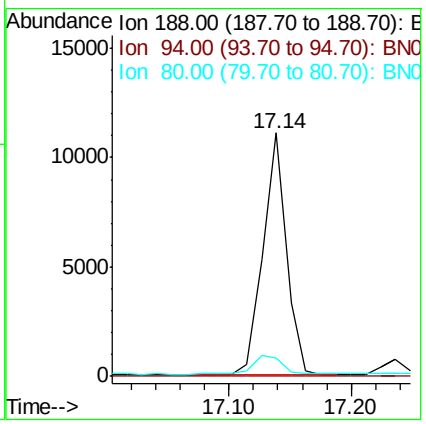


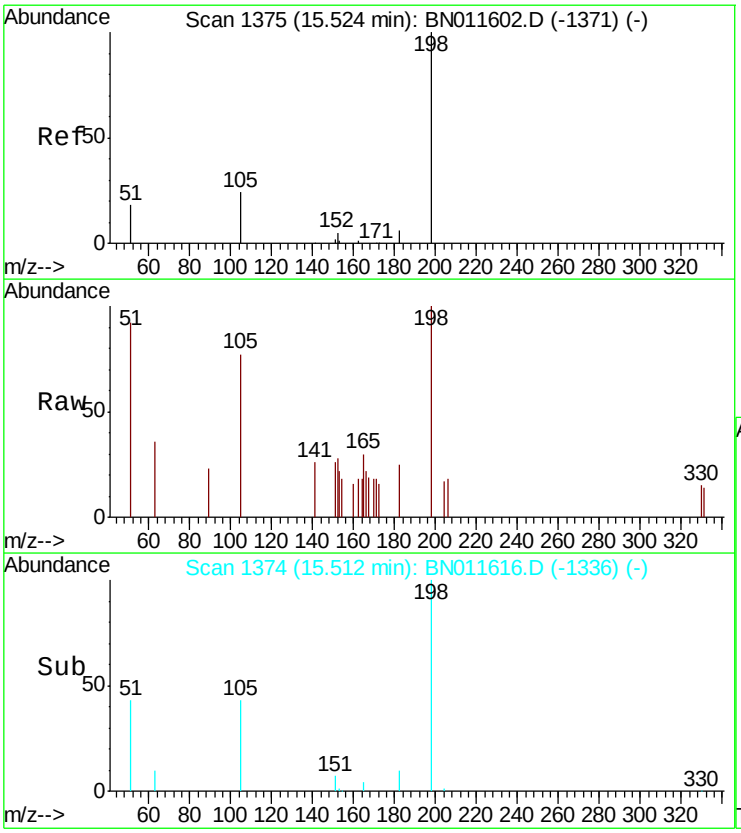
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.14 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:188 Resp: 14840

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.3	9.2	13.8#

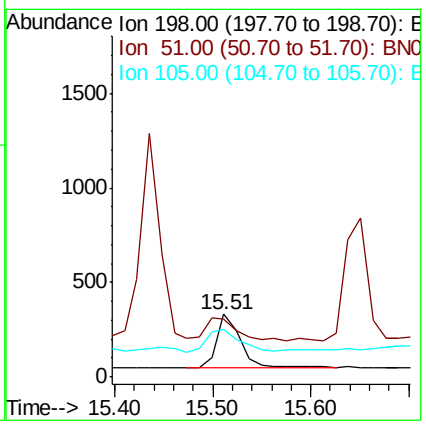


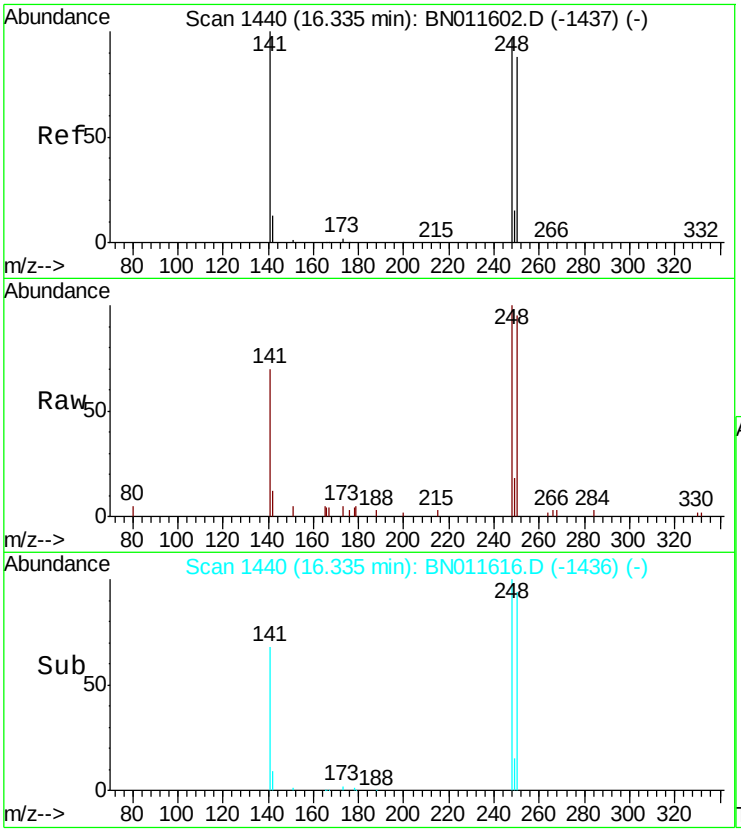


#20
4,6-Dinitro-2-methylphenol
Concen: 0.269 ng
RT: 15.51 min Scan# 1374
Delta R.T. -0.01 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:198 Resp: 461

Ion	Ratio	Lower	Upper
198	100		
51	91.6	99.6	149.4#
105	76.6	118.8	178.2#



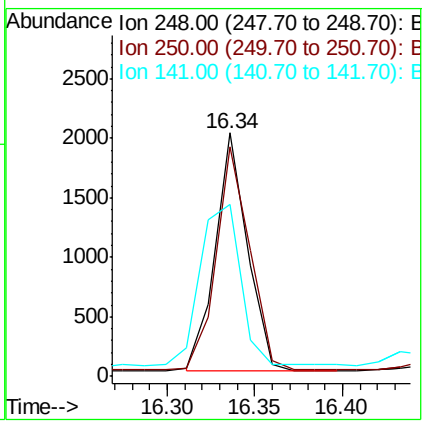


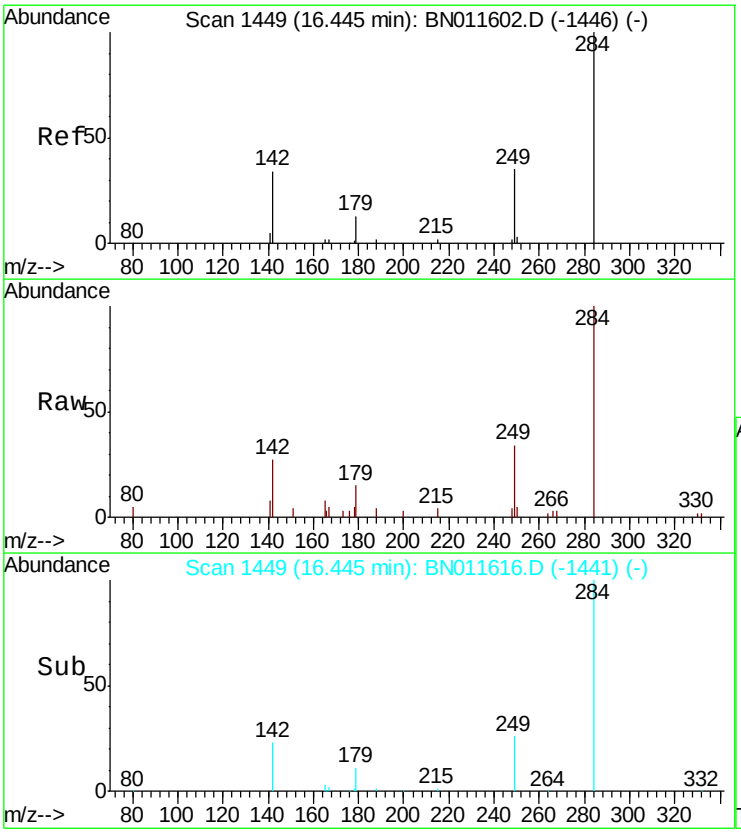
#21
4-Bromophenyl-phenylether
Concen: 0.295 ng
RT: 16.34 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:248 Resp: 2553

Ion	Ratio	Lower	Upper
248	100		
250	94.5	73.4	110.2
141	70.5	88.5	132.7#

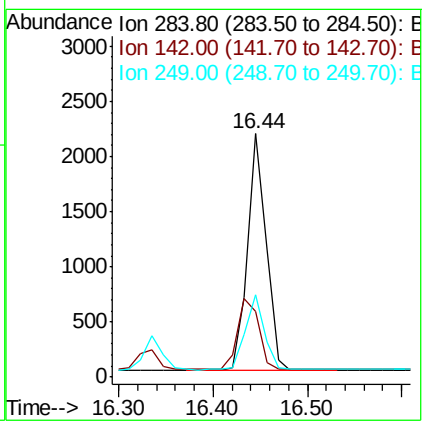


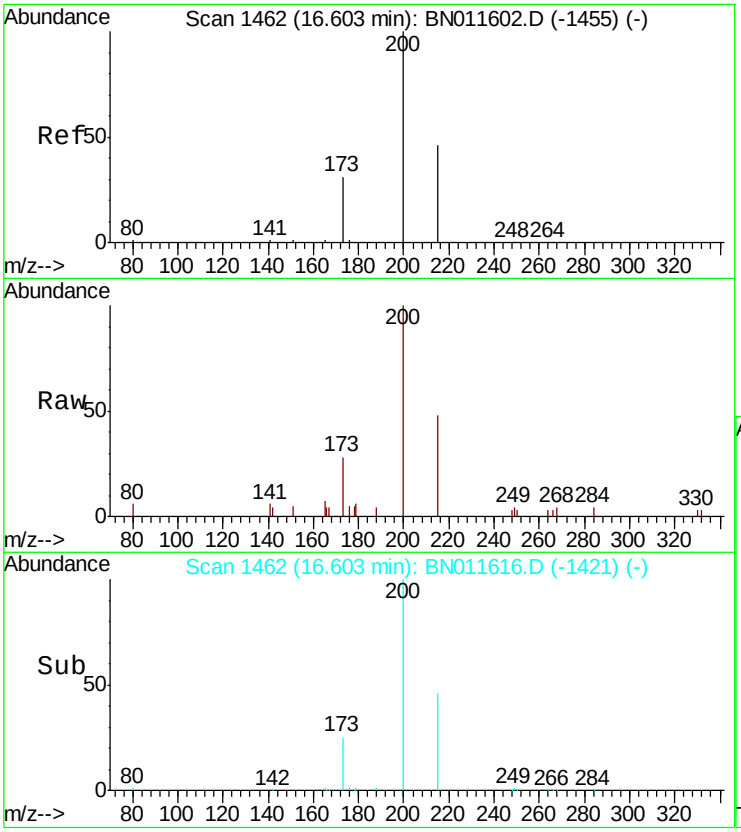


#22
Hexachlorobenzene
Concen: 0.296 ng
RT: 16.44 min Scan# 1449
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:284 Resp: 2961

Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.3	40.9
249	32.4	25.2	37.8



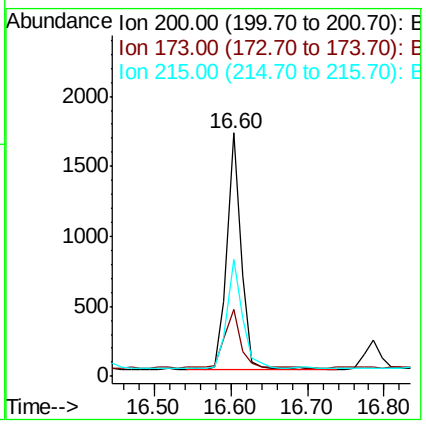


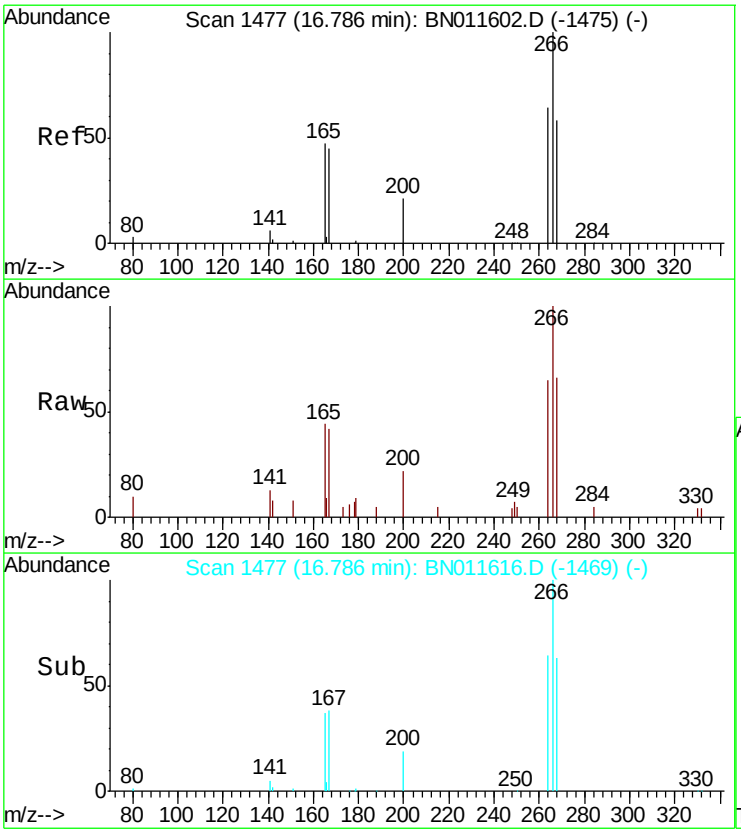
#23
Atrazine
Concen: 0.252 ng
RT: 16.60 min Scan# 1462
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:200 Resp: 2154

Ion	Ratio	Lower	Upper
200	100		
173	27.7	28.2	42.4#
215	47.8	39.8	59.6

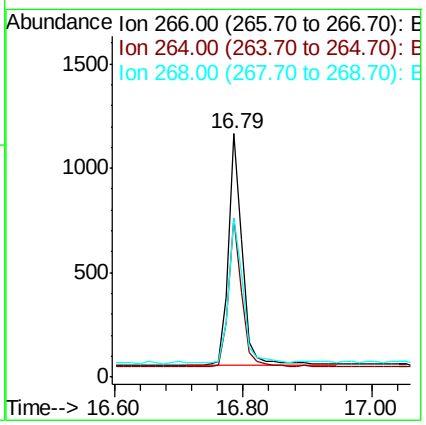


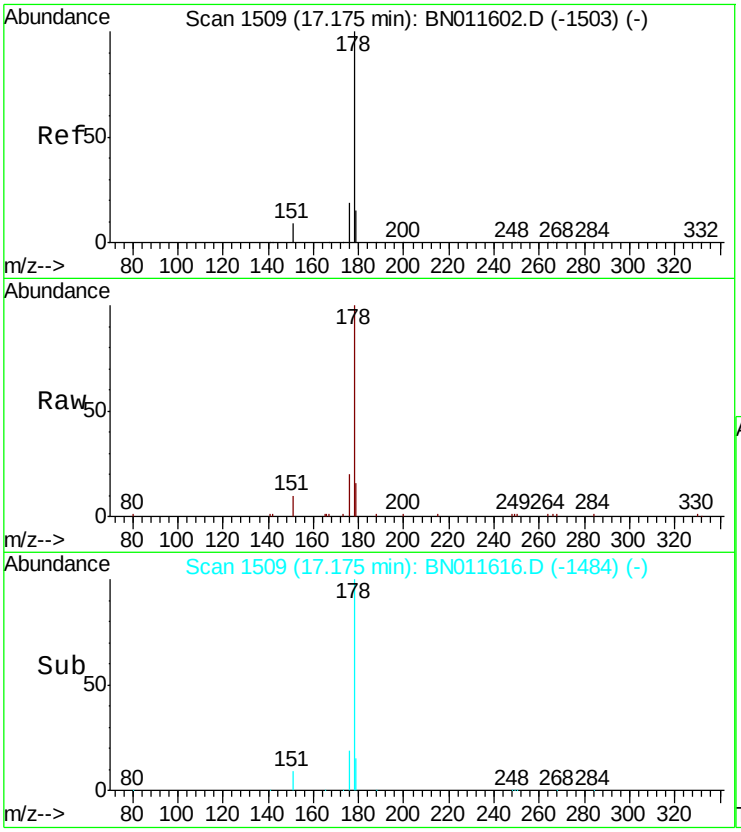


#24
Pentachlorophenol
Concen: 0.383 ng
RT: 16.79 min Scan# 1477
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:266 Resp: 1691

Ion	Ratio	Lower	Upper
266	100		
264	62.2	48.1	72.1
268	64.3	48.4	72.6



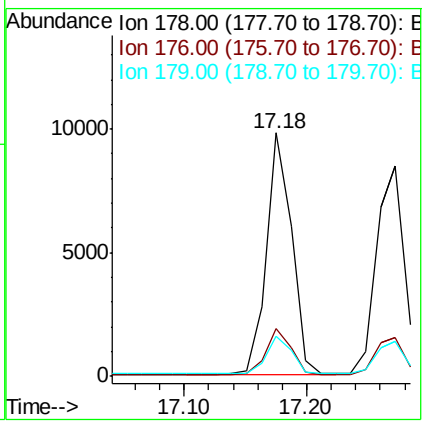


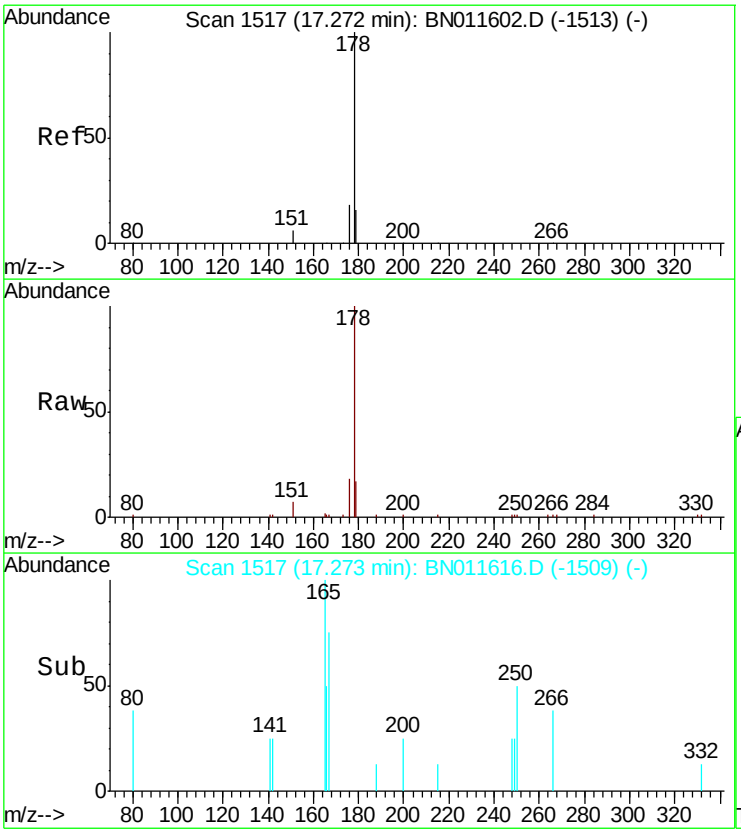
#25
Phenanthrene
Concen: 0.304 ng
RT: 17.18 min Scan# 1509
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:178 Resp: 14018

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.9	12.6	18.8

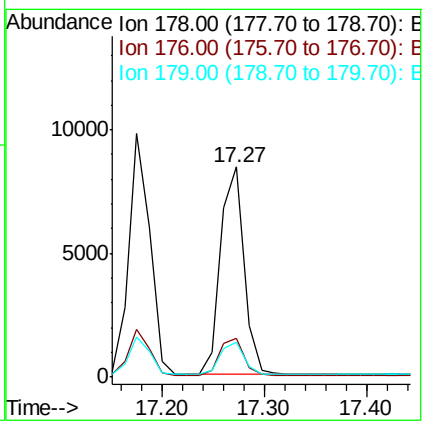


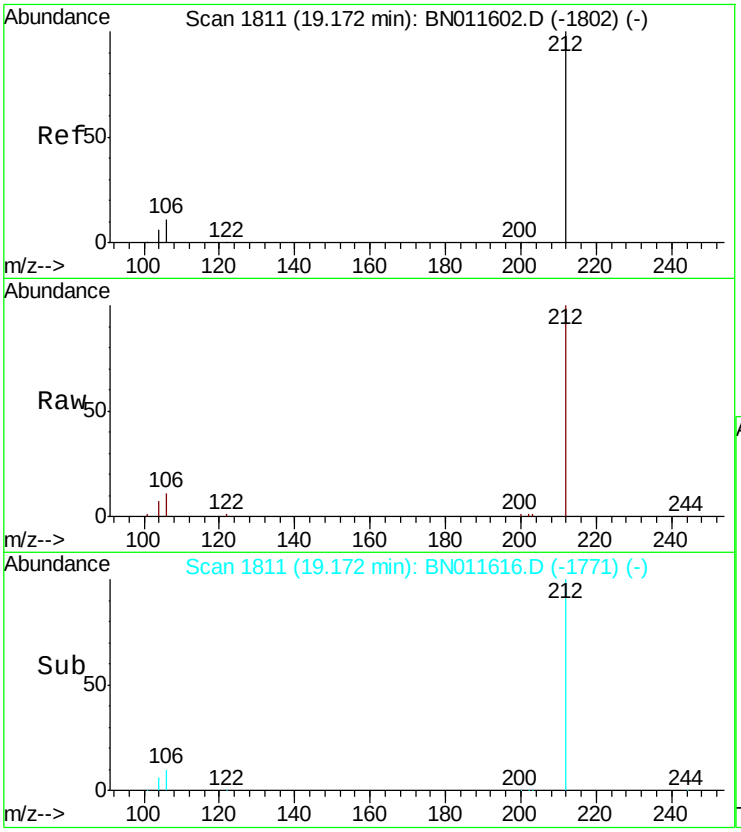


#26
Anthracene
Concen: 0.294 ng
RT: 17.27 min Scan# 1517
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:178 Resp: 13355

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	21.8
179	15.4	12.5	18.7



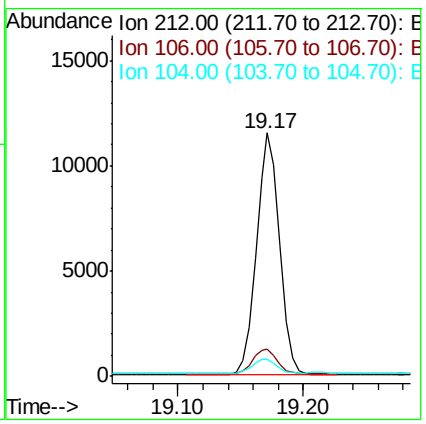


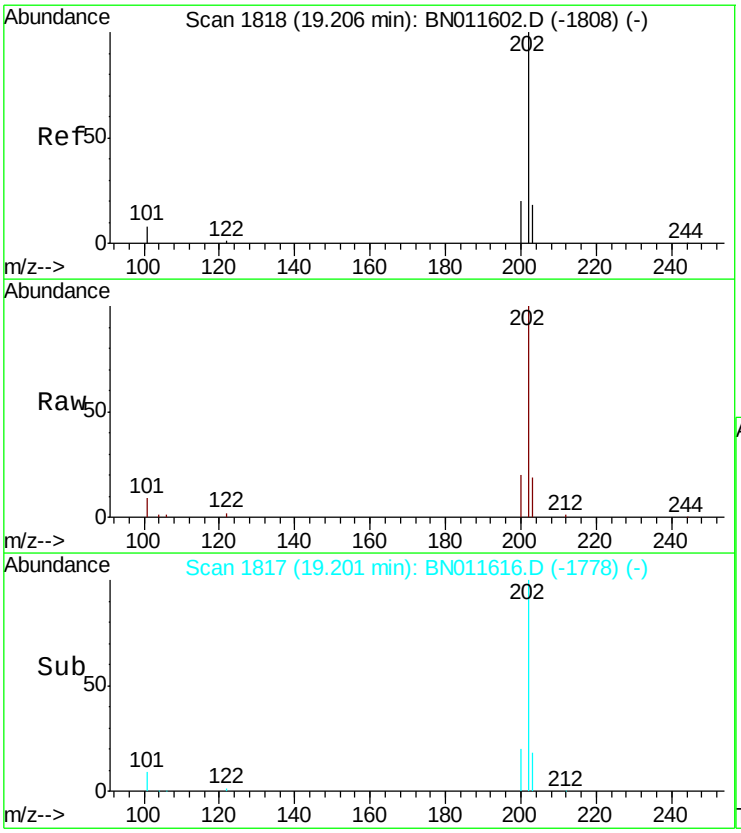
#27
Fluoranthene-d10
Concen: 0.304 ng
RT: 19.17 min Scan# 1811
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:212 Resp: 14685

Ion	Ratio	Lower	Upper
212	100		
106	10.7	8.9	13.3
104	6.3	5.3	7.9

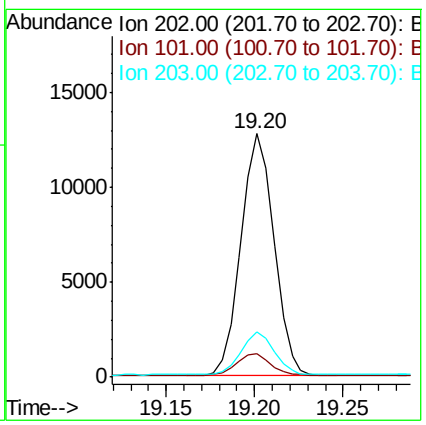


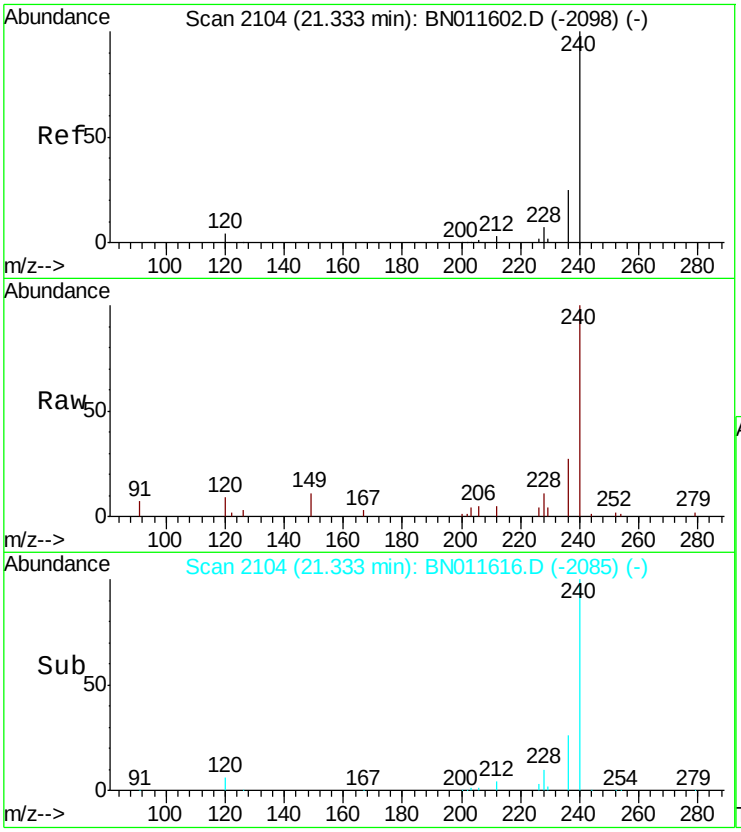


#28
Fluoranthene
Concen: 0.295 ng
RT: 19.20 min Scan# 1817
Delta R.T. -0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:202 Resp: 16487

Ion	Ratio	Lower	Upper
202	100		
101	9.9	7.7	11.5
203	17.7	13.9	20.9



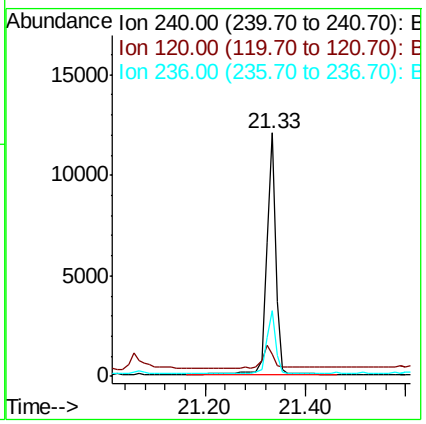


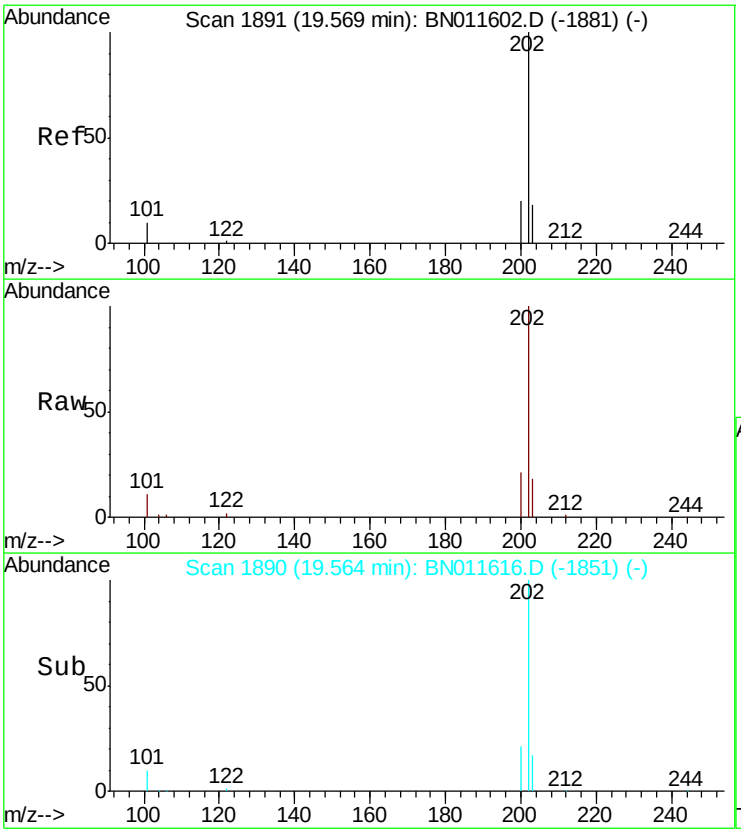
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.33 min Scan# 2104
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:240 Resp: 15341

Ion	Ratio	Lower	Upper
240	100		
120	9.1	6.0	9.0#
236	26.8	20.8	31.2

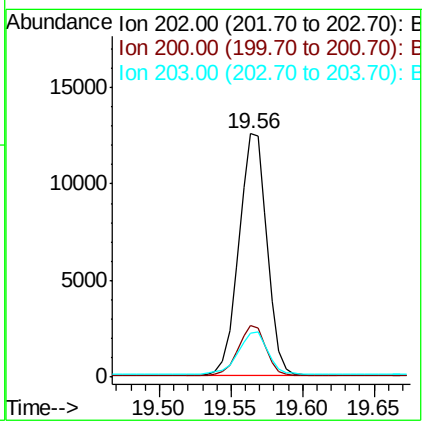


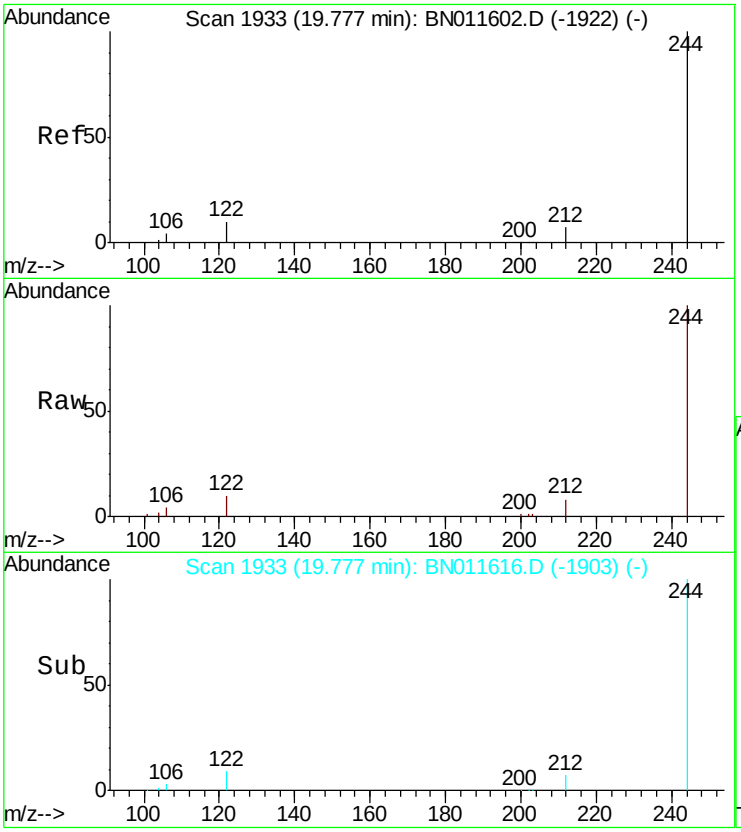


#30
Pyrene
Concen: 0.316 ng
RT: 19.56 min Scan# 1890
Delta R.T. -0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:202 Resp: 17211

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.3	24.5
203	18.5	14.2	21.4



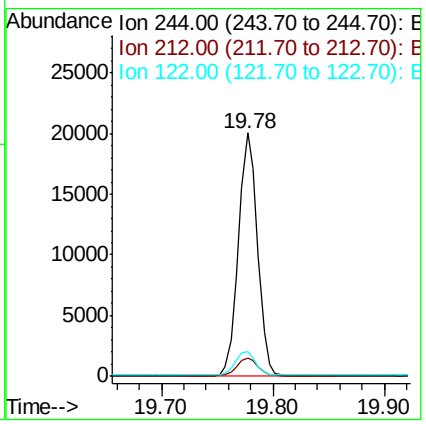


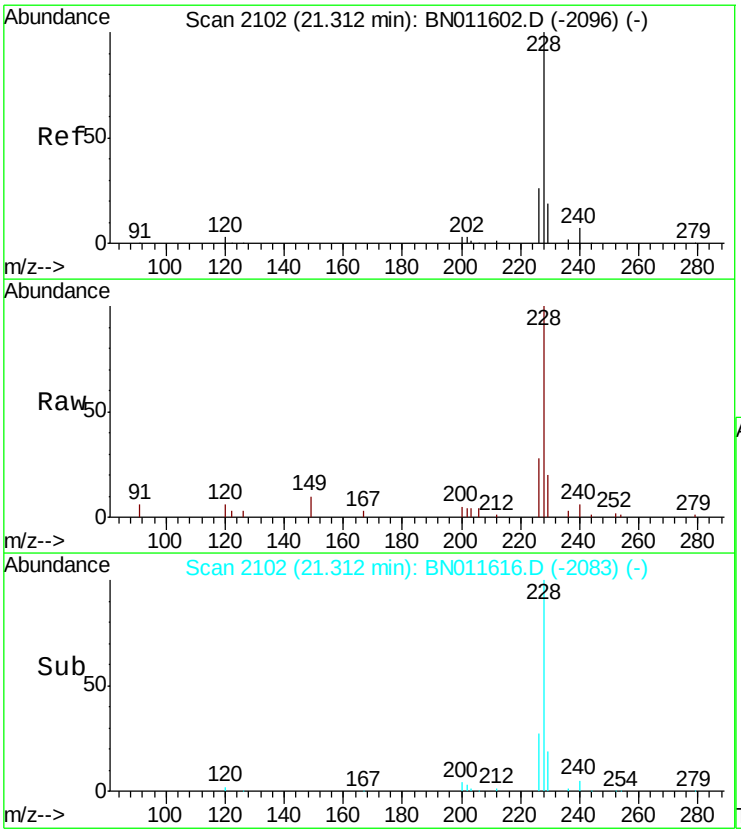
#31
Terphenyl-d14
Concen: 0.601 ng
RT: 19.78 min Scan# 1933
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:244 Resp: 23540

Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.5	9.7
122	10.0	9.5	14.3

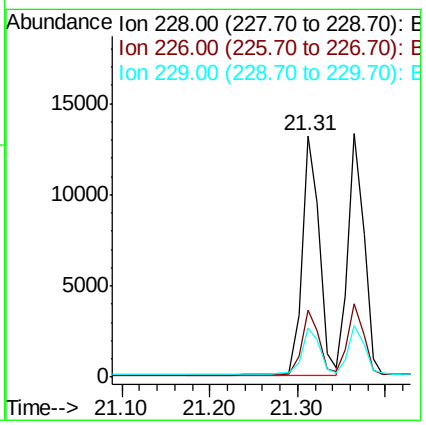


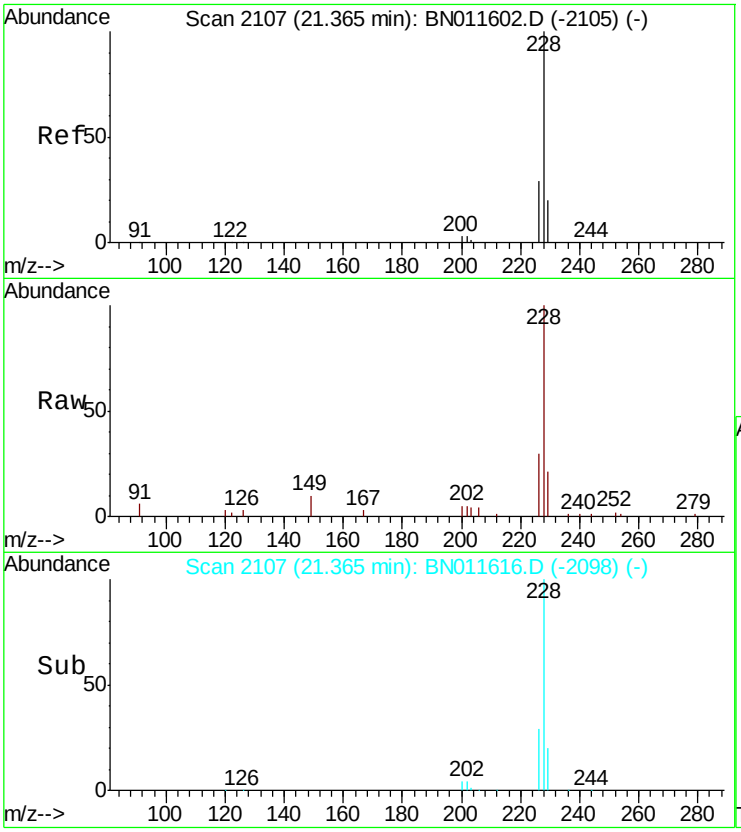


#32
Benzo(a)anthracene
Concen: 0.321 ng
RT: 21.31 min Scan# 2102
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:228 Resp: 17735

Ion	Ratio	Lower	Upper
228	100		
226	27.9	21.2	31.8
229	20.5	15.8	23.8



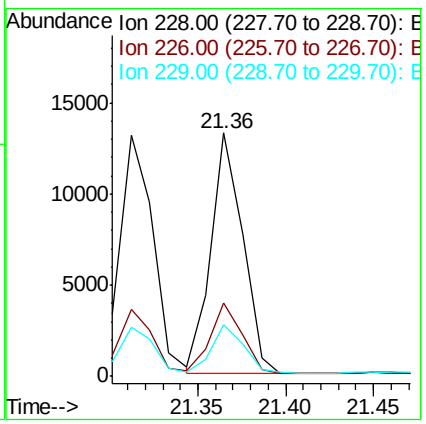


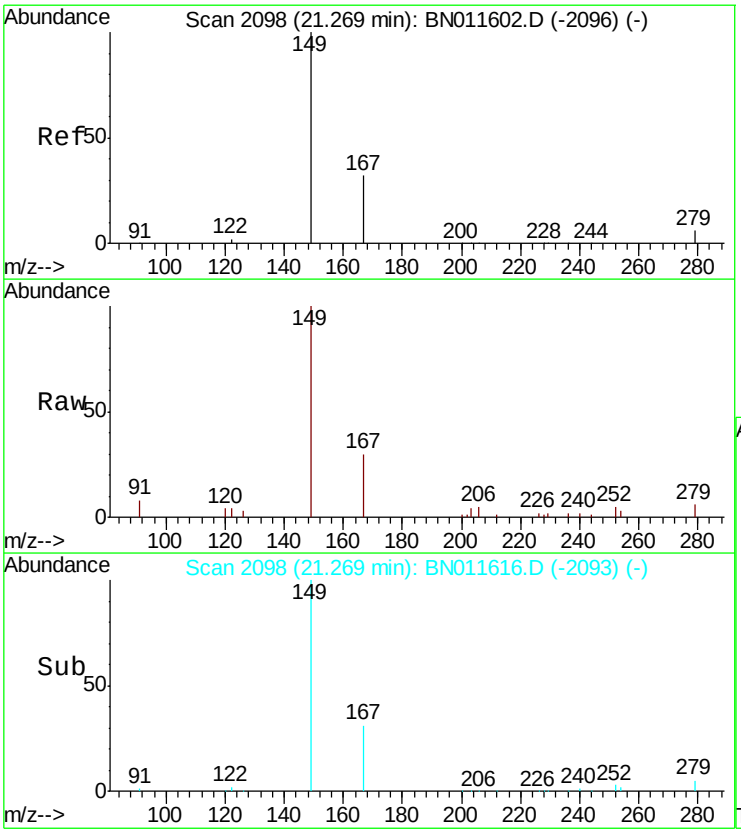
#33
Chrysene
Concen: 0.316 ng
RT: 21.36 min Scan# 2107
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:228 Resp: 16667

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.6	35.4
229	20.9	16.0	24.0

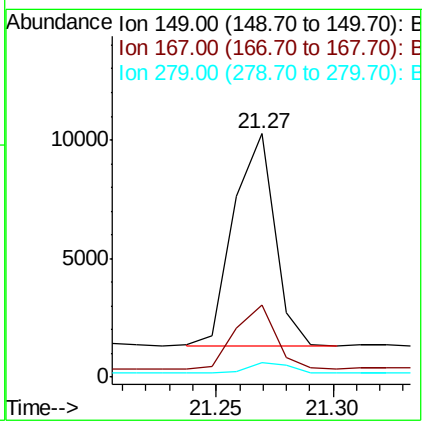


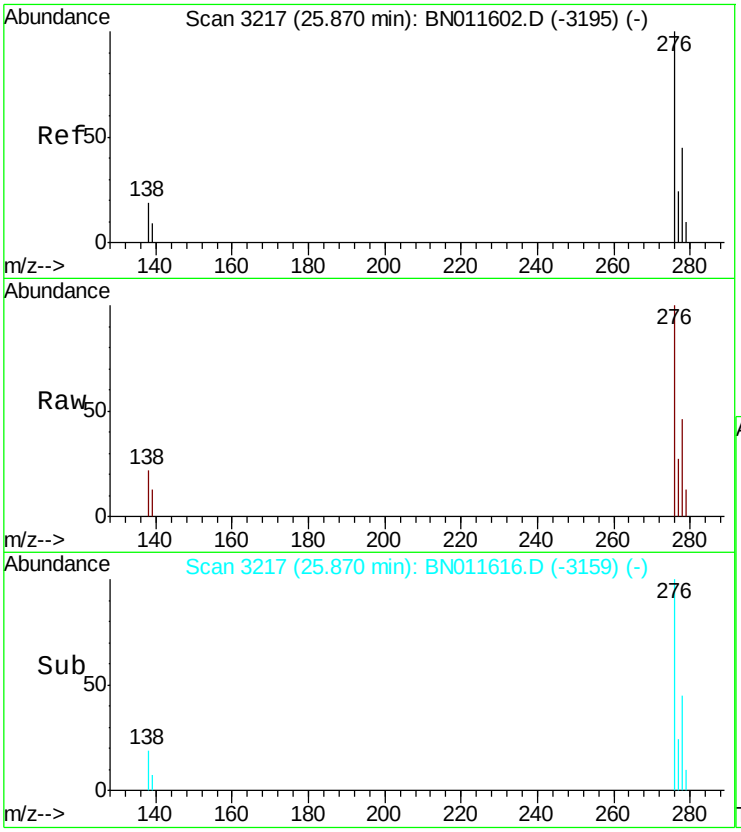


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.266 ng
RT: 21.27 min Scan# 2098
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:149 Resp: 10965

Ion	Ratio	Lower	Upper
149	100		
167	29.6	20.6	31.0
279	5.2	3.8	5.8



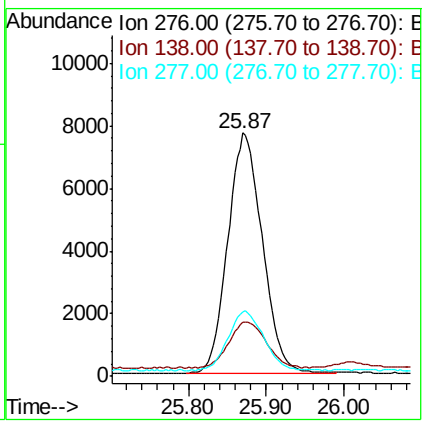


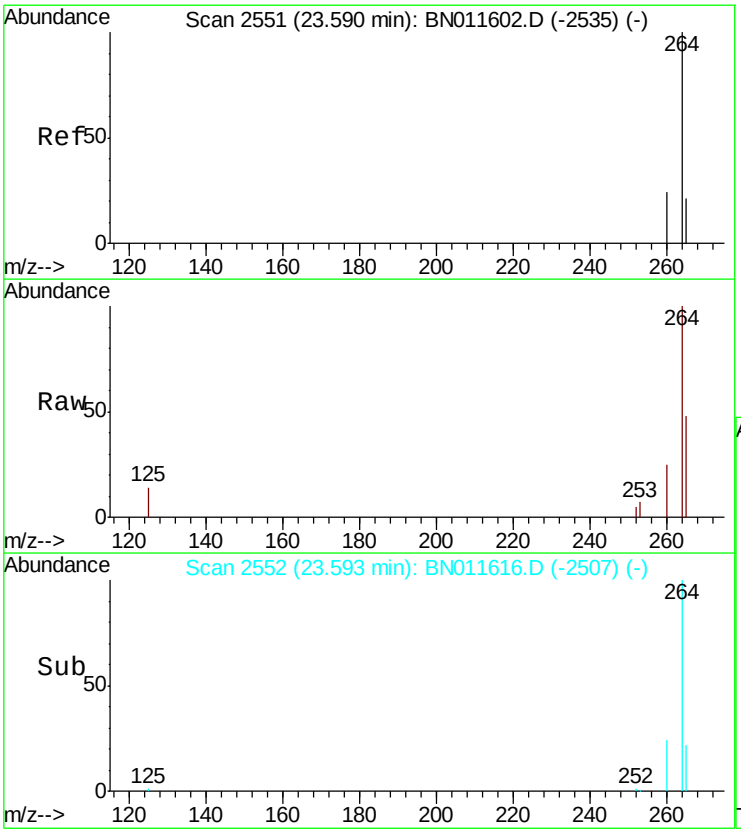
#35
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.87 min Scan# 3217
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument : BNA_N
ClientSampleId : CS-3MSD

Tgt Ion:276 Resp: 23682

Ion	Ratio	Lower	Upper
276	100		
138	20.6	0.0	0.0#
277	25.2	0.0	0.0#

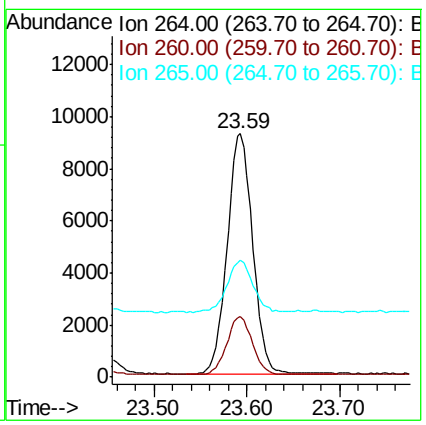


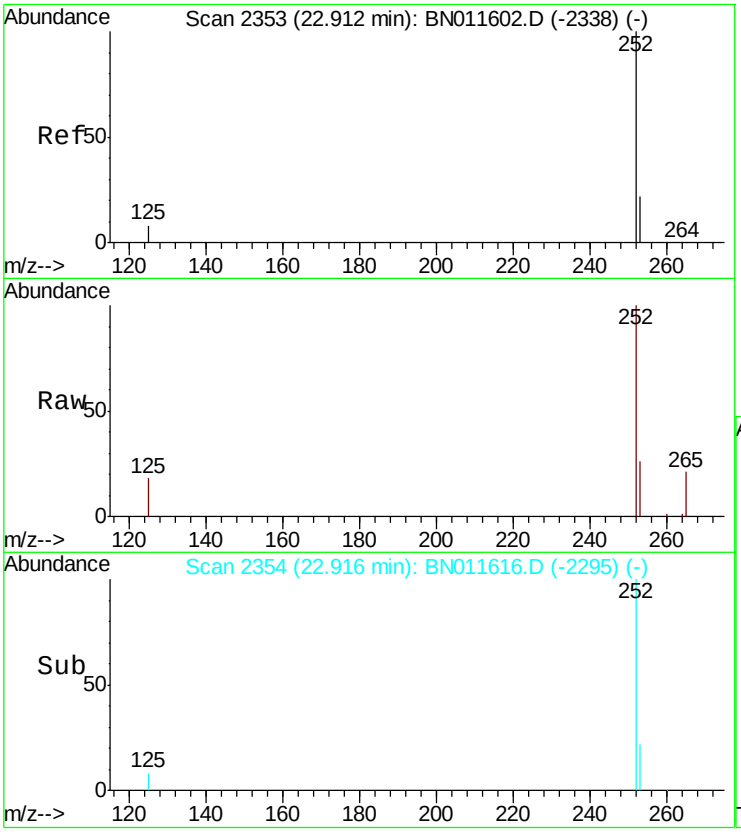


#36
Perylene-d12
Concen: 0.400 ng
RT: 23.59 min Scan# 2552
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:264 Resp: 17630

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.6	29.4
265	47.9	40.7	61.1



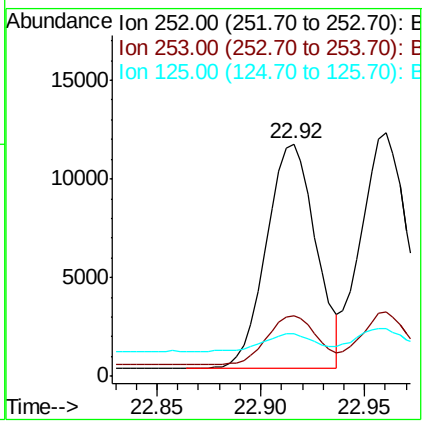


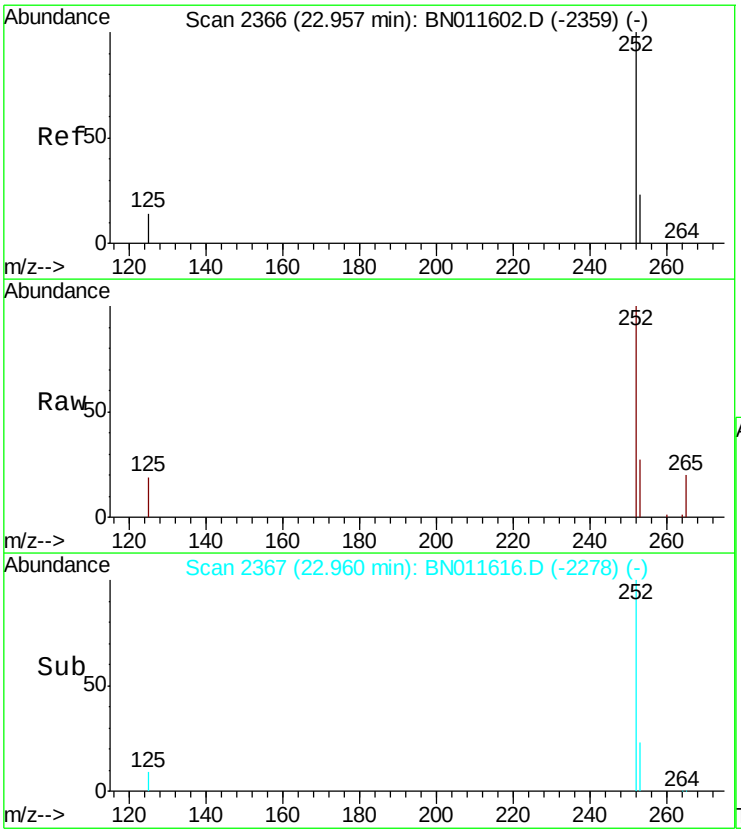
#37
Benzo(b)fluoranthene
Concen: 0.295 ng
RT: 22.92 min Scan# 2354
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:252 Resp: 18850

Ion	Ratio	Lower	Upper
252	100		
253	26.3	21.0	31.6
125	18.3	11.0	16.6#

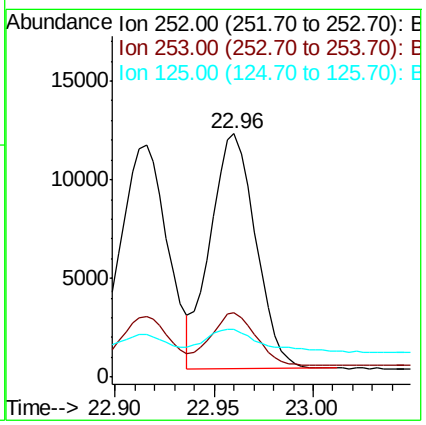


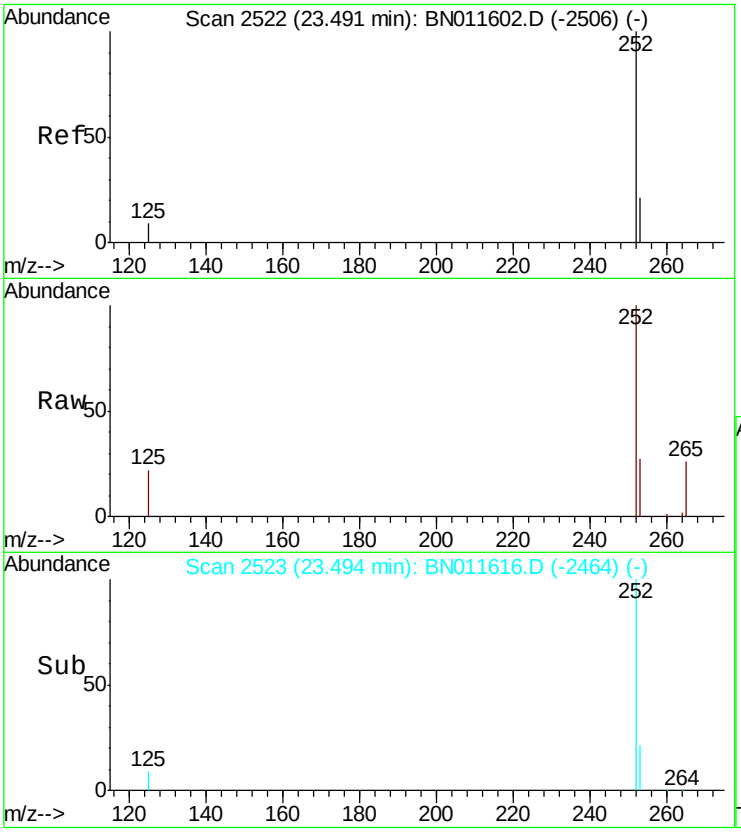


#38
Benzo(k)fluoranthene
Concen: 0.297 ng
RT: 22.96 min Scan# 2367
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:252 Resp: 18882

Ion	Ratio	Lower	Upper
252	100		
253	26.7	21.2	31.8
125	19.4	14.6	21.8



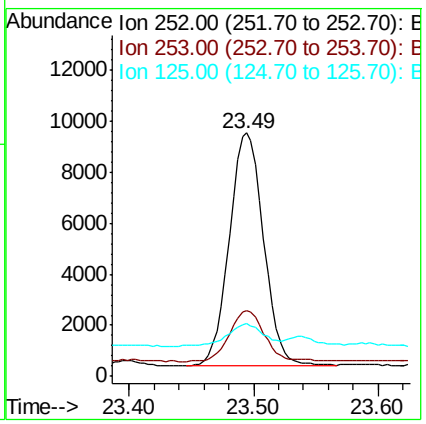


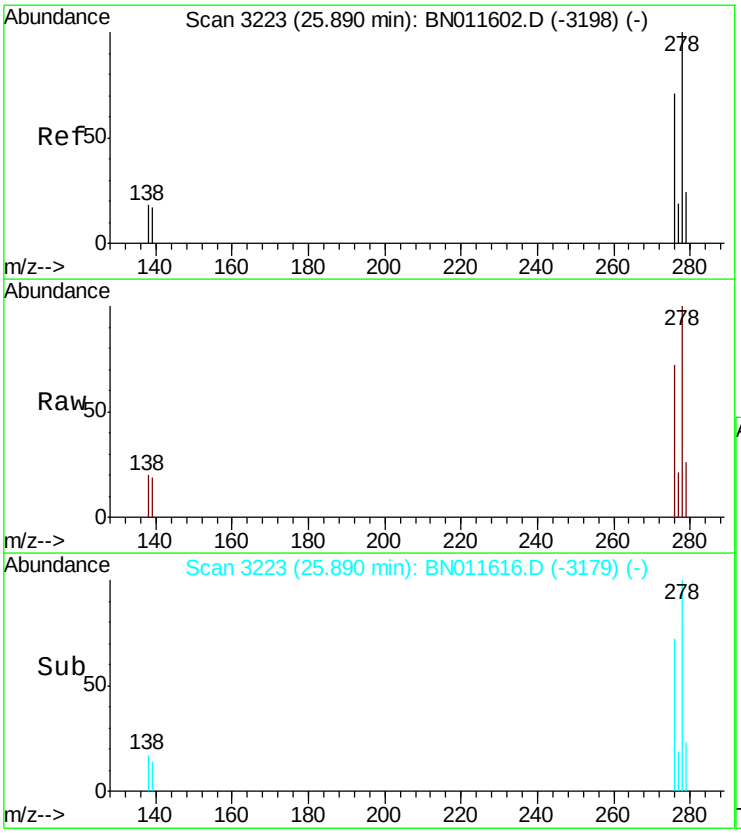
#39
Benzo(a)pyrene
Concen: 0.293 ng
RT: 23.49 min Scan# 2523
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:252 Resp: 17439

Ion	Ratio	Lower	Upper
252	100		
253	26.8	21.2	31.8
125	21.8	12.1	18.1#

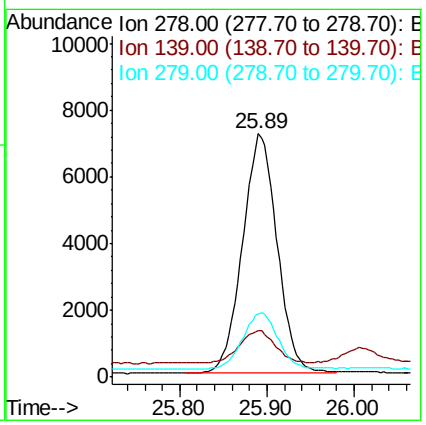


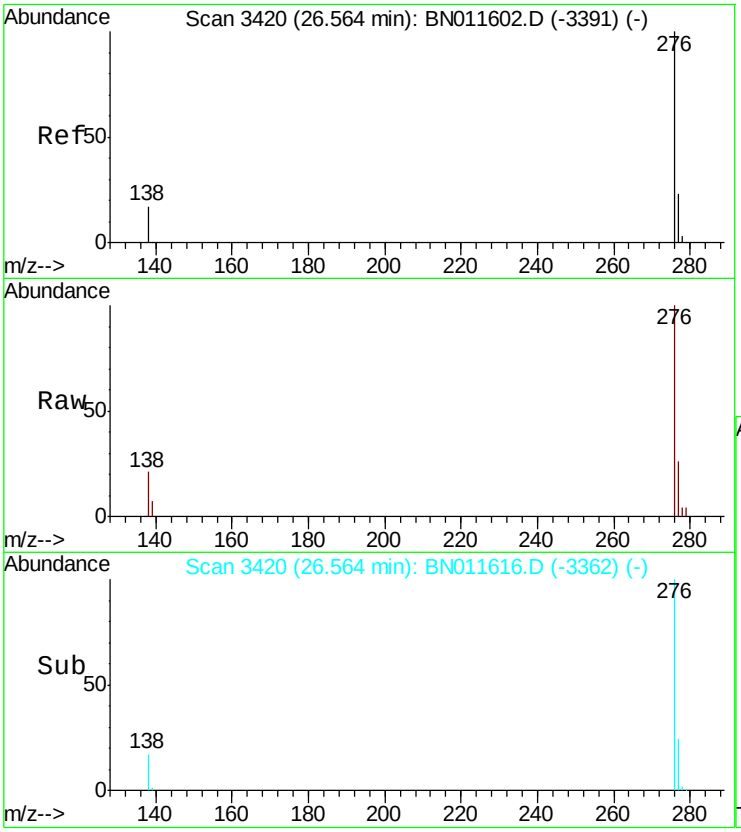


#40
Dibenzo(a,h)anthracene
Concen: 0.319 ng
RT: 25.89 min Scan# 3223
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Tgt Ion:278 Resp: 19871

Ion	Ratio	Lower	Upper
278	100		
139	19.2	16.6	25.0
279	26.0	21.4	32.2





#41
Benzo(g,h,i)perylene
Concen: 0.338 ng
RT: 26.56 min Scan# 3420
Delta R.T. 0.00 min
Lab File: BN011616.D
Acq: 25 Aug 2020 15:24

Instrument :
BNA_N
ClientSampleId :
CS-3MSD

Tgt Ion:276 Resp: 20388

Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.5	30.7
138	20.7	17.8	26.6