

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007142.D
 Acq On : 13 Aug 2019 21:19
 Operator : HP/JU
 Sample : K4173-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW107-073119

Quant Time: Aug 14 04:07:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9478	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36930	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20764	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47409	0.40	ng	0.00
26) Chrysene-d12	21.05	240	46191	0.40	ng	-0.01
32) Perylene-d12	23.16	264	50623	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6138	0.27	ng	0.00
4) Phenol-d6	6.62	99	8227	0.29	ng	0.00
7) Nitrobenzene-d5	8.56	82	6833	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14971	0.22	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2644	0.24	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3752	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	34252	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	29695	0.24	ng	-0.01

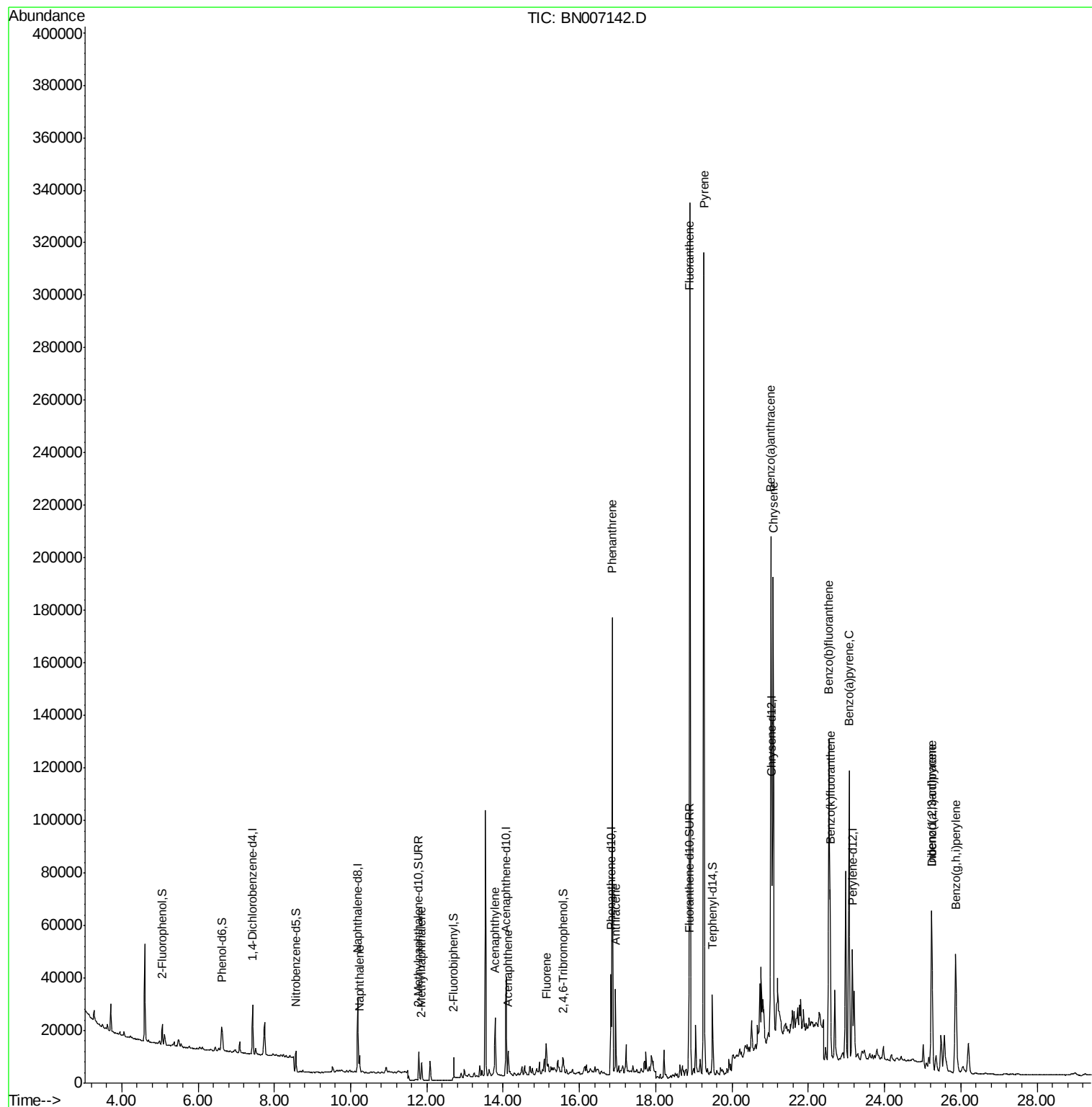
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	8286	0.080	ng	96
11) 2-Methylnaphthalene	11.86	142	5170	0.070	ng	93
15) Acenaphthylene	13.79	152	32539	0.300	ng	99
16) Acenaphthene	14.13	154	5677	0.082	ng	93
17) Fluorene	15.14	166	9379	0.090	ng	# 82
22) Phenanthrene	16.87	178	168980	1.189	ng	100
23) Anthracene	16.95	178	35675	0.275	ng	# 97
25) Fluoranthene	18.90	202	310765	1.710	ng	100
27) Pyrene	19.26	202	293081	1.809	ng	# 96
29) Benzo(a)anthracene	21.02	228	156638	0.927	ng	94
30) Chrysene	21.08	228	157871	0.962	ng	96
31) Indeno(1,2,3-cd)pyrene	25.24	276	93130	0.515	ng	99
33) Benzo(b)fluoranthene	22.54	252	190452	1.097	ng	98
34) Benzo(k)fluoranthene	22.58	252	67669m	0.395	ng	
35) Benzo(a)pyrene	23.07	252	139383	0.886	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	24963	0.159	ng	# 80
37) Benzo(g,h,i)perylene	25.87	276	90097	0.558	ng	98

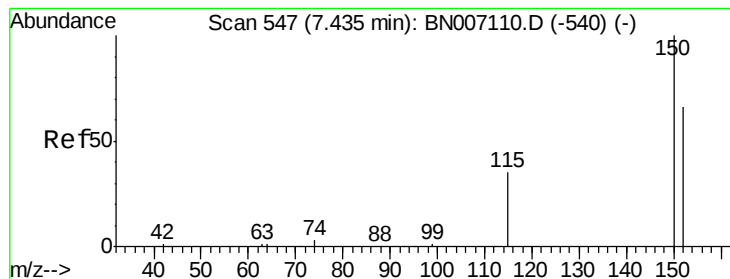
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.43 min Scan# 547

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

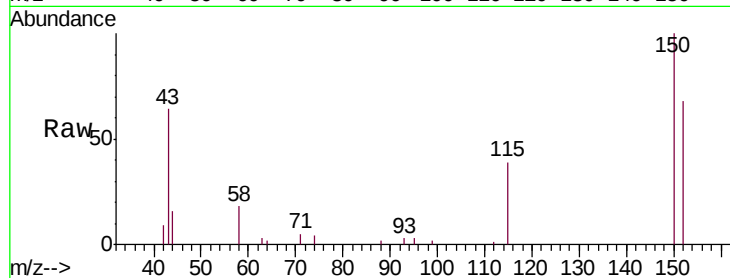
Tgt Ion:152 Resp: 9478

Ion Ratio Lower Upper

152 100

150 148.1 121.7 182.5

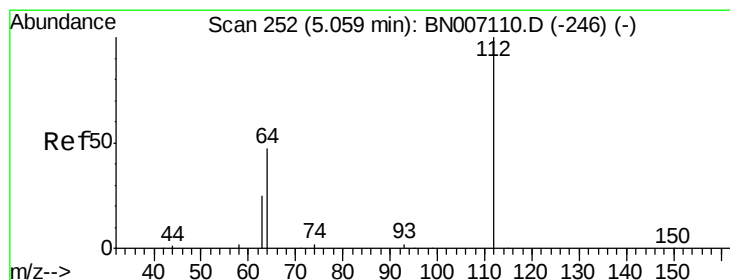
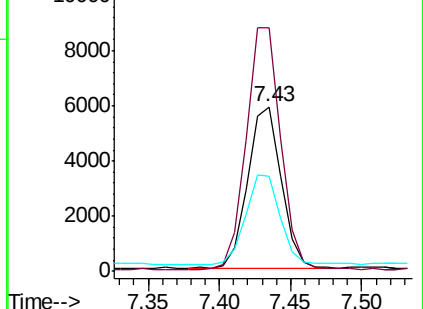
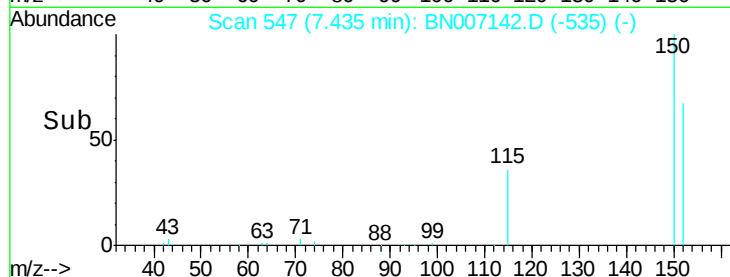
115 57.8 46.2 69.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol

Concen: 0.270 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

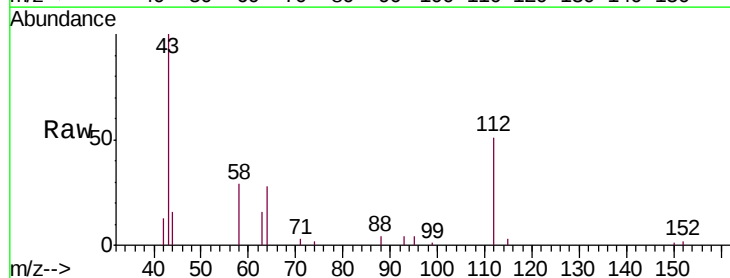
Tgt Ion:112 Resp: 6138

Ion Ratio Lower Upper

112 100

64 50.8 42.6 63.8

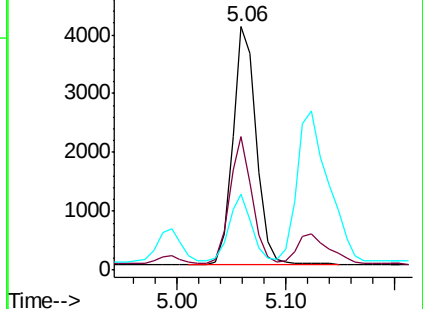
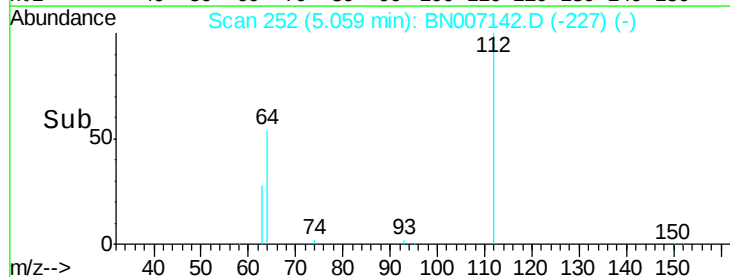
63 27.0 22.2 33.2

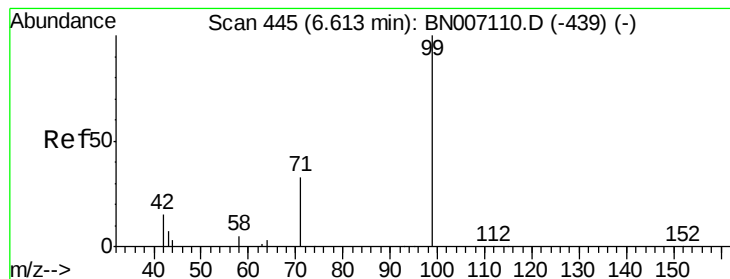


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.292 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

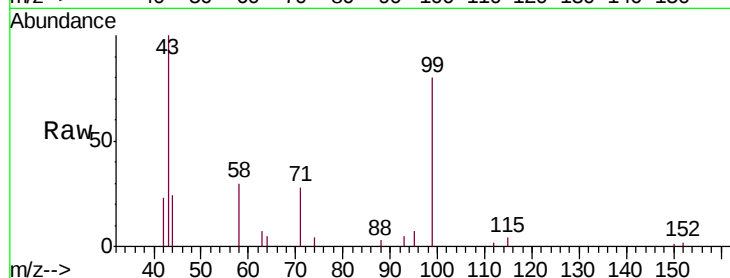
Tgt Ion: 99 Resp: 8227

Ion Ratio Lower Upper

99 100

42 23.5 15.8 23.6

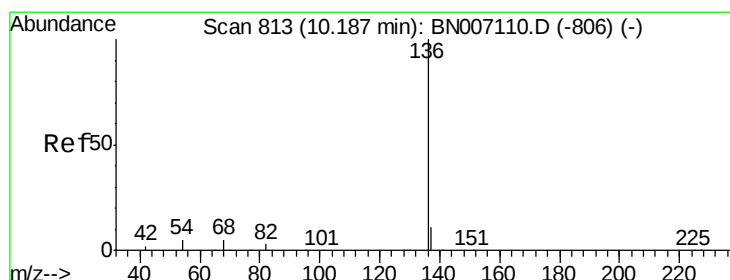
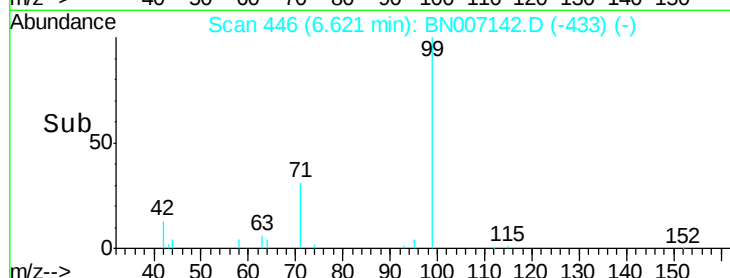
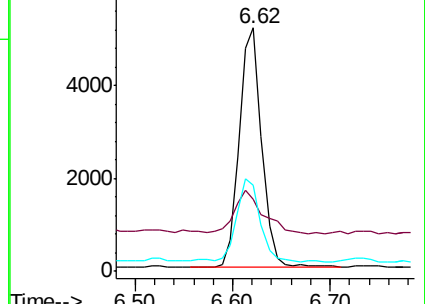
71 36.8 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Tgt Ion: 136 Resp: 36930

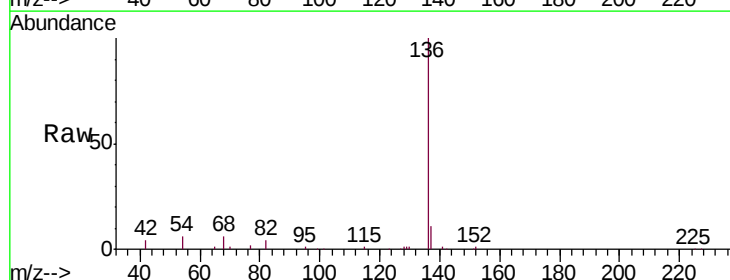
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.1 6.6 9.8#

68 5.7 6.0 9.0#

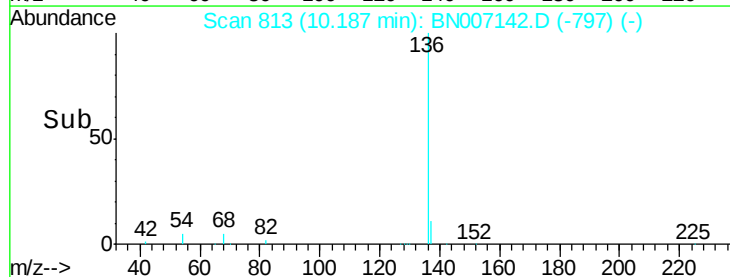
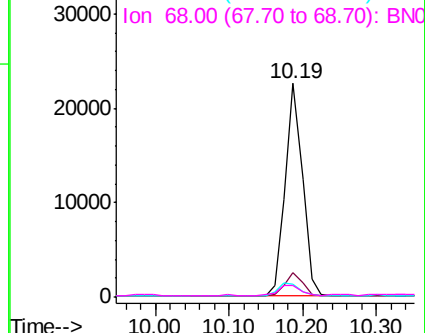


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.229 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

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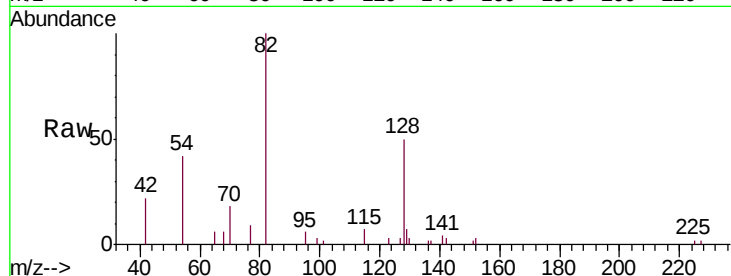
Tgt Ion: 82 Resp: 6833

Ion Ratio Lower Upper

82 100

128 49.9 34.6 51.8

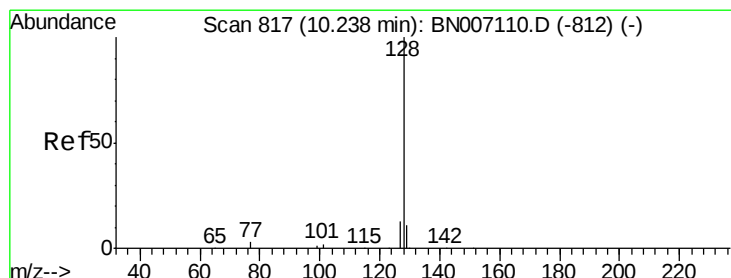
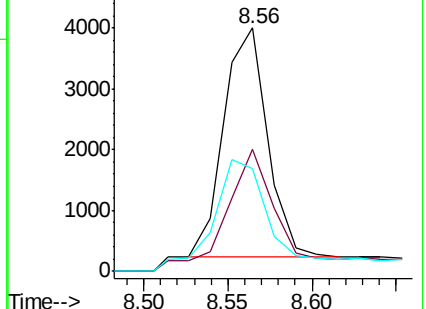
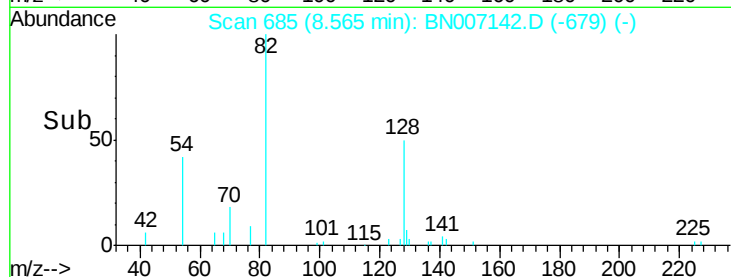
54 42.0 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007142.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007142.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007142.D (-679) (-)



#8

Naphthalene

Concen: 0.080 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

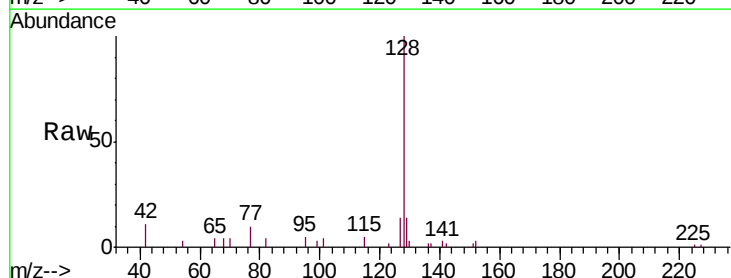
Tgt Ion: 128 Resp: 8286

Ion Ratio Lower Upper

128 100

129 14.1 9.4 14.2

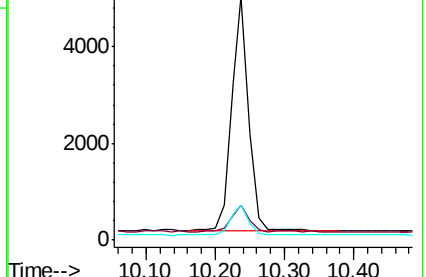
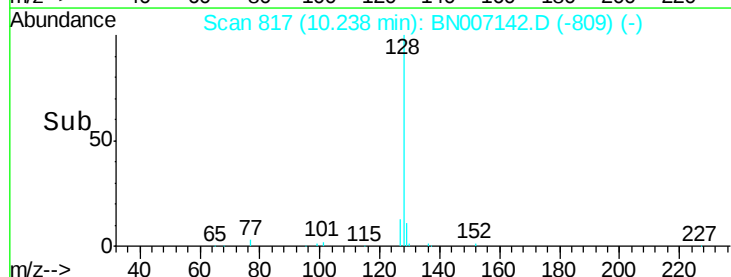
127 14.3 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BN007142.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007142.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007142.D (-809) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.217 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

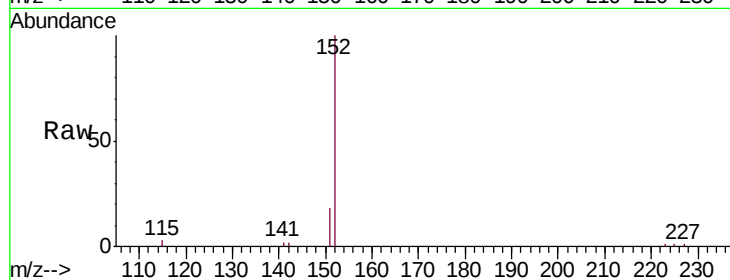
EXT-035-SW107-073119

Tgt Ion:152 Resp: 14971

Ion Ratio Lower Upper

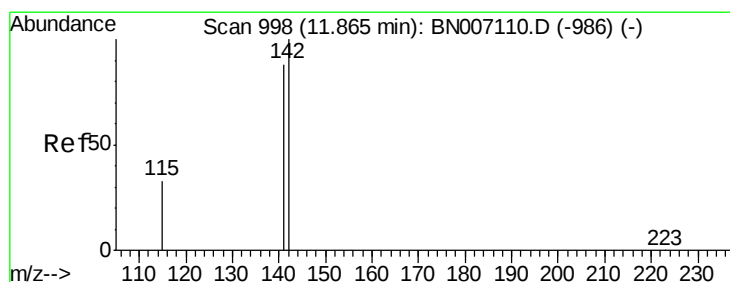
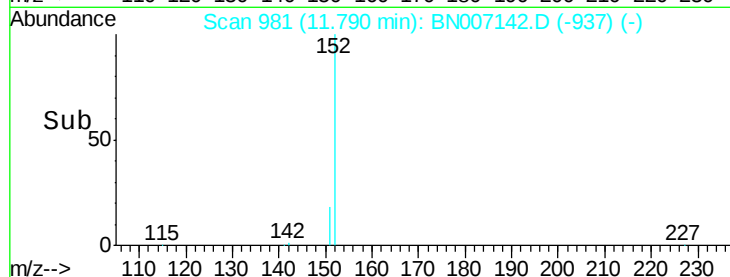
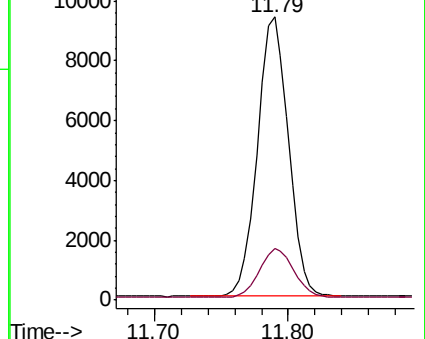
152 100

151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.070 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

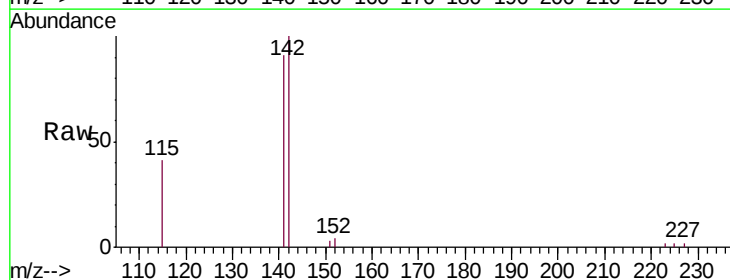
Tgt Ion:142 Resp: 5170

Ion Ratio Lower Upper

142 100

141 90.5 69.0 103.6

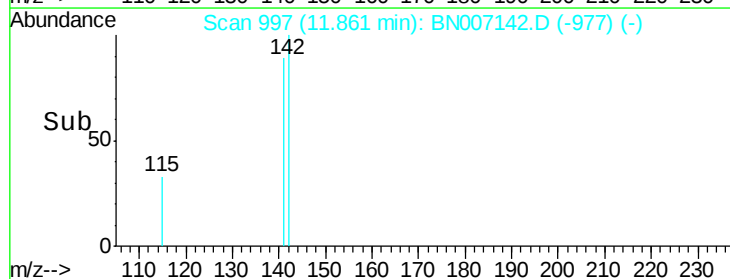
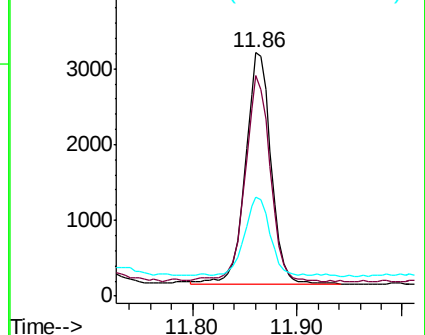
115 40.6 27.1 40.7

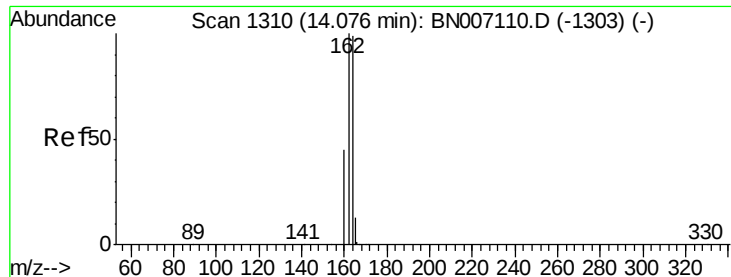


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

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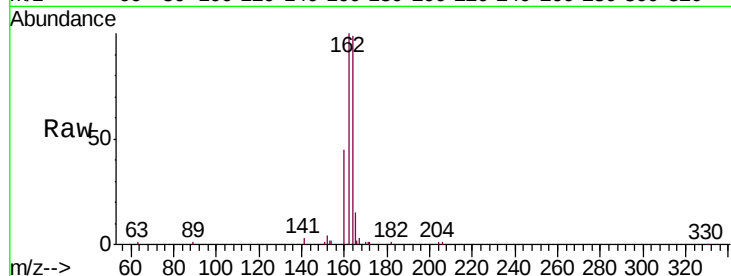
Tgt Ion:164 Resp: 20764

Ion Ratio Lower Upper

164 100

162 100.9 82.2 123.4

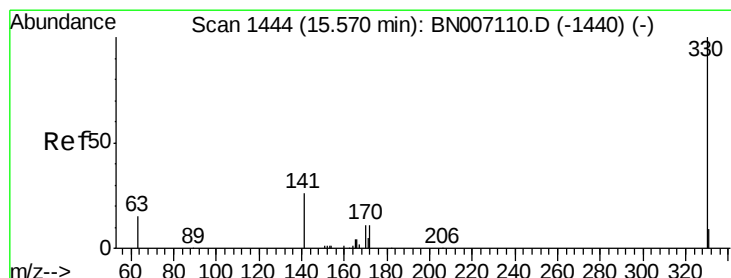
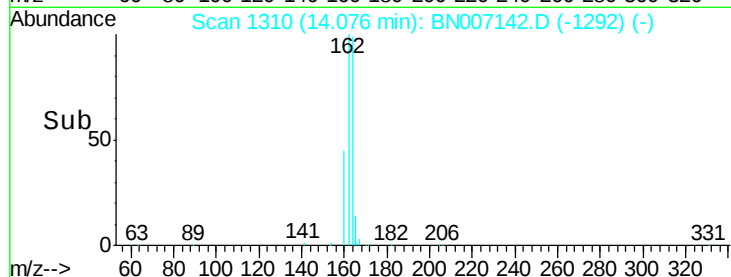
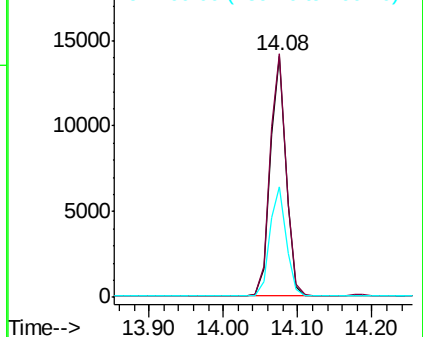
160 45.6 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.236 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

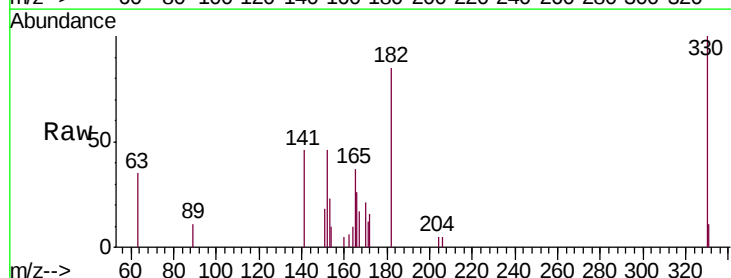
Tgt Ion:330 Resp: 2644

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

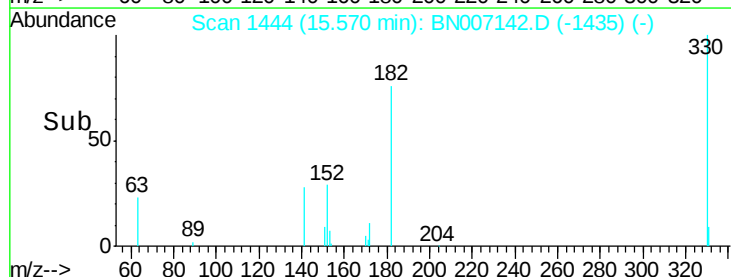
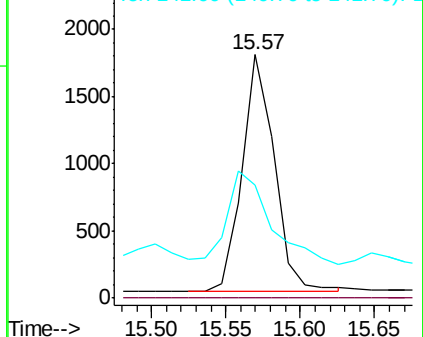
141 52.9 33.6 50.4#

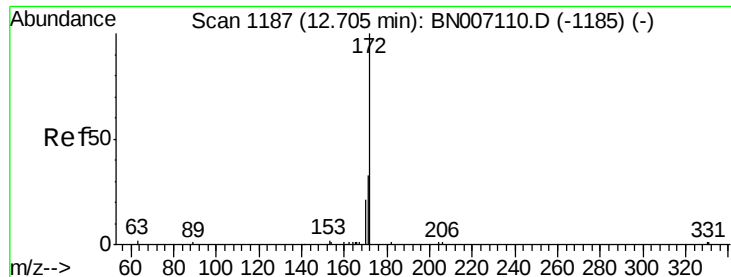


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

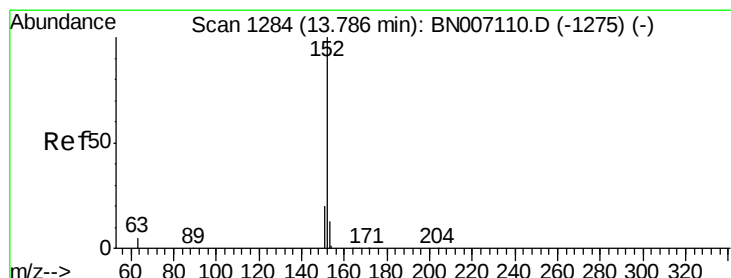
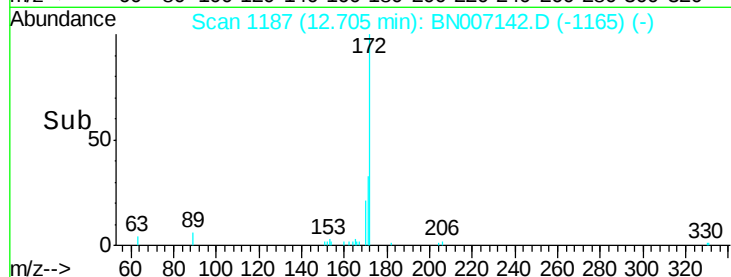
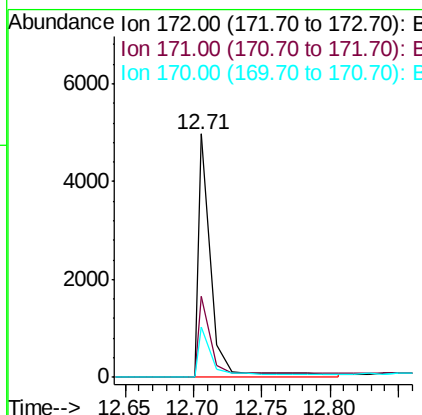
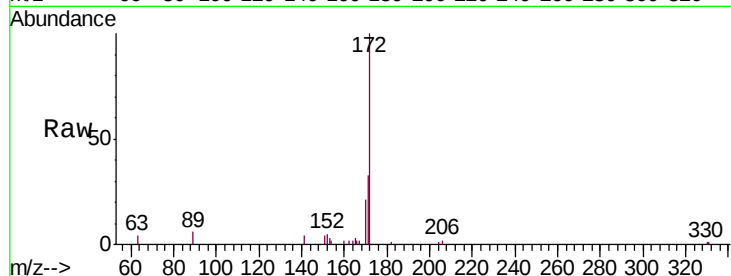




#14
2-Fluorobiphenyl
Concen: 0.124 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007142.D
Acq: 13 Aug 2019 21:19

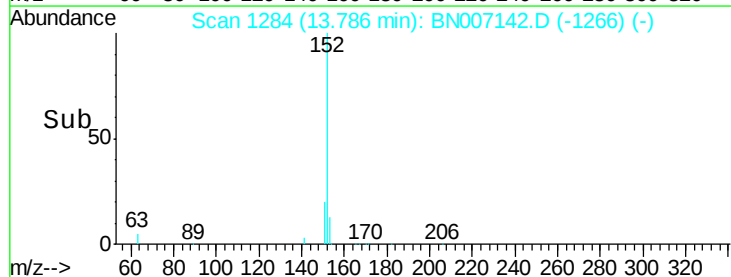
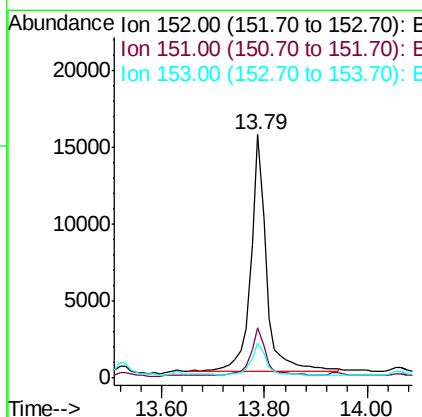
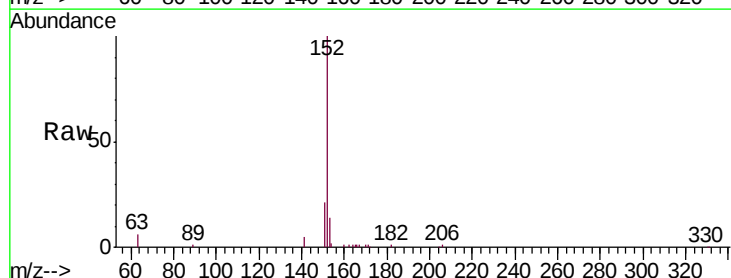
Instrument :
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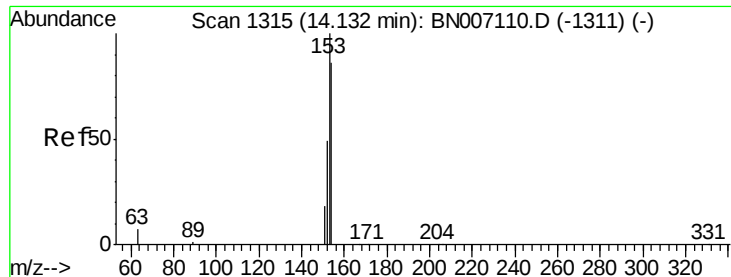
Tgt Ion:172 Resp: 3752
Ion Ratio Lower Upper
172 100
171 33.2 26.3 39.5
170 20.9 17.0 25.4



#15
Acenaphthylene
Concen: 0.300 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007142.D
Acq: 13 Aug 2019 21:19

Tgt Ion:152 Resp: 32539
Ion Ratio Lower Upper
152 100
151 19.3 15.8 23.6
153 13.0 10.4 15.6





#16

Acenaphthene

Concen: 0.082 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

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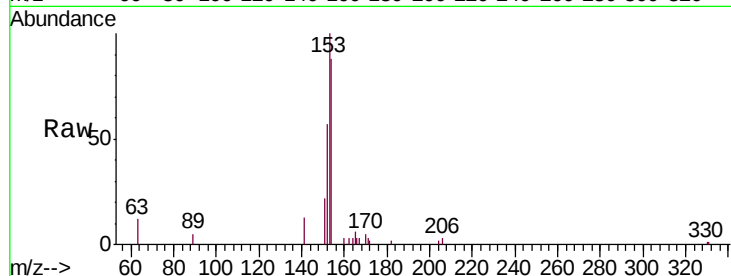
Tgt Ion:154 Resp: 5677

Ion Ratio Lower Upper

154 100

153 105.4 89.5 134.3

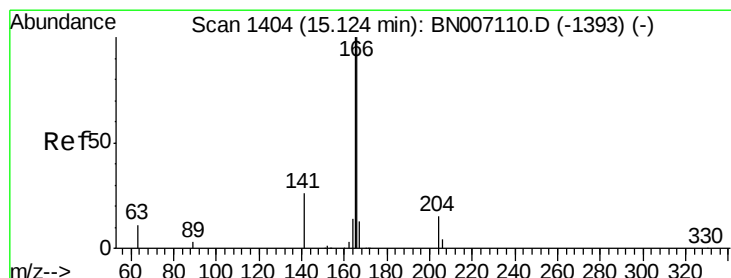
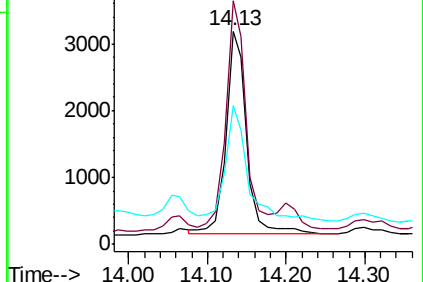
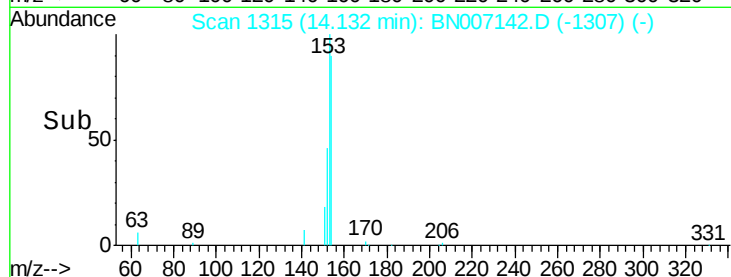
152 62.0 44.8 67.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 0.090 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

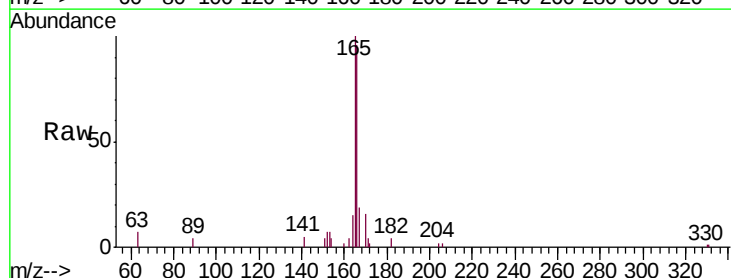
Tgt Ion:166 Resp: 9379

Ion Ratio Lower Upper

166 100

165 117.3 77.9 116.9#

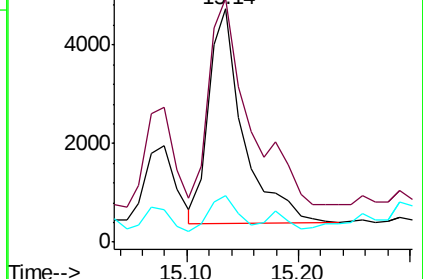
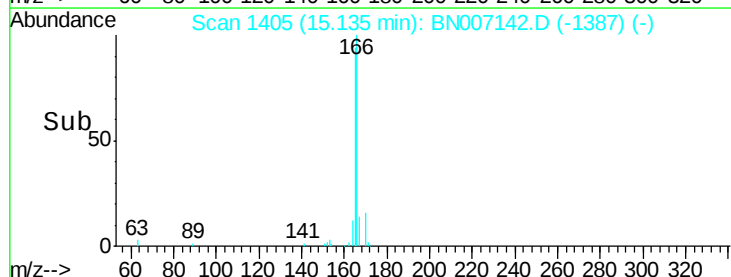
167 13.8 10.9 16.3



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

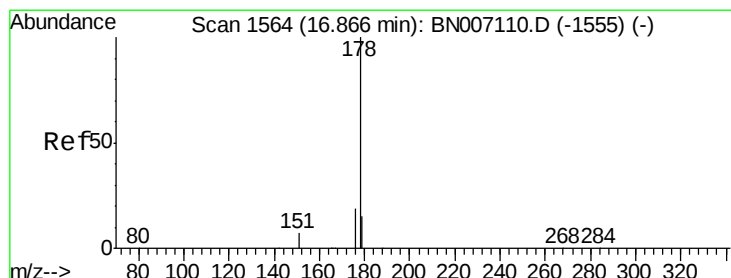
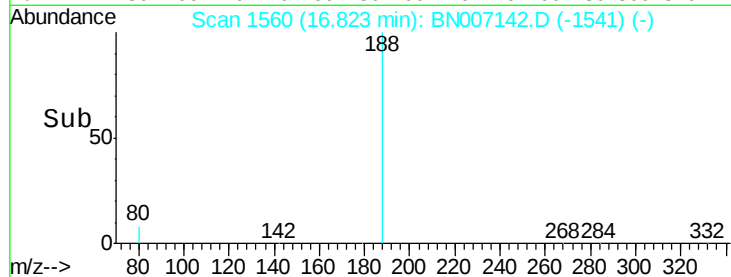
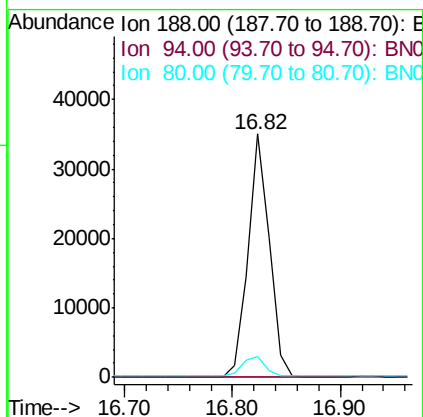
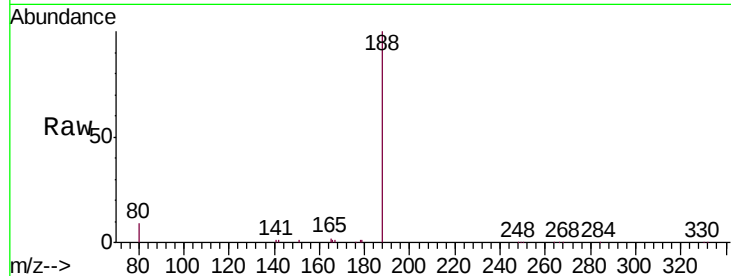




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007142.D
Acq: 13 Aug 2019 21:19

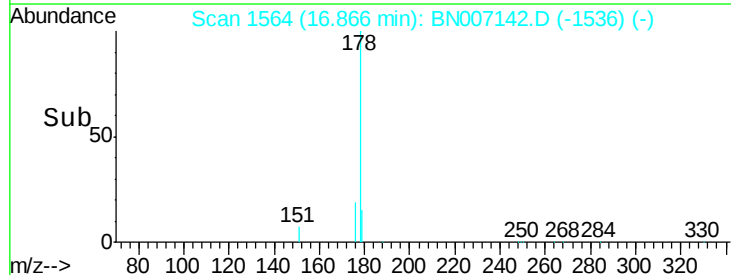
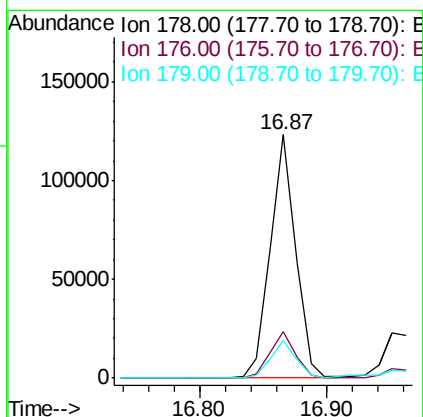
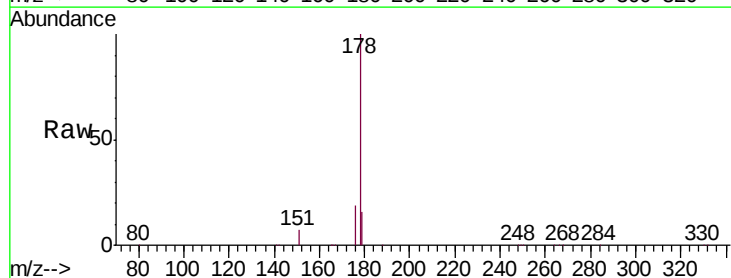
Instrument :
BNA_N
ClientSampleId :
EXT-035-SW107-073119

Tgt Ion:188 Resp: 47409
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 7.8 11.6



#22
Phenanthrene
Concen: 1.189 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007142.D
Acq: 13 Aug 2019 21:19

Tgt Ion:178 Resp: 168980
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.6 12.3 18.5





#23

Anthracene

Concen: 0.275 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

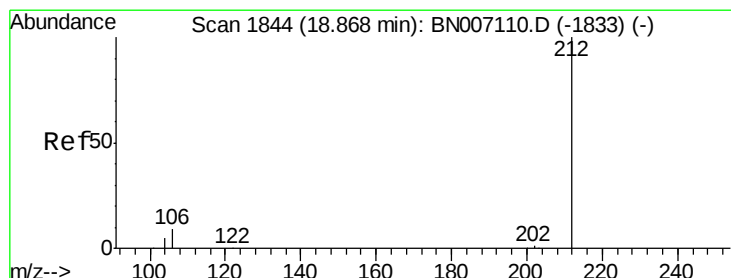
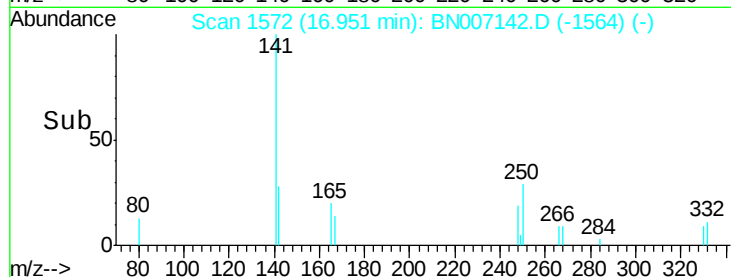
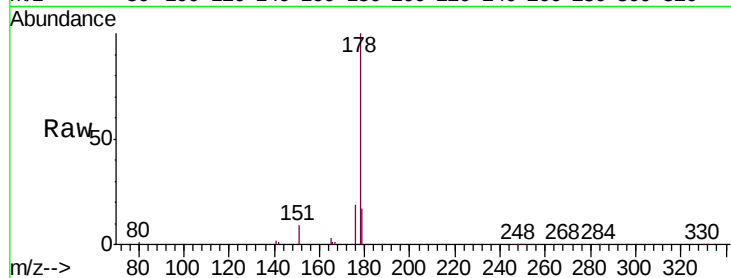
Tgt Ion:178 Resp: 35675

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

179 18.7 12.5 18.7#



#24

Fluoranthene-d10

Concen: 0.204 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

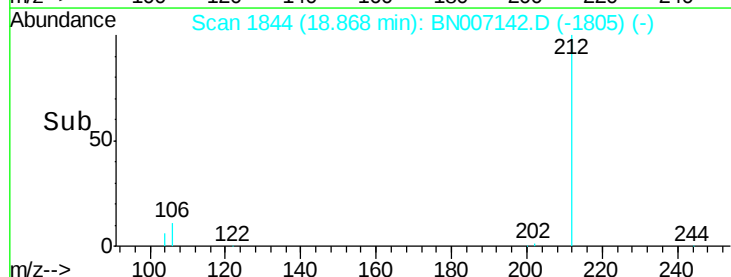
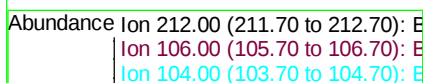
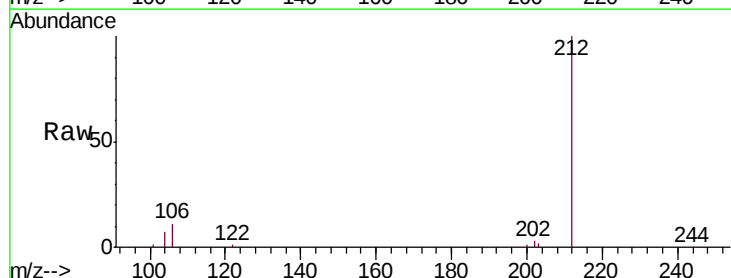
Tgt Ion:212 Resp: 34252

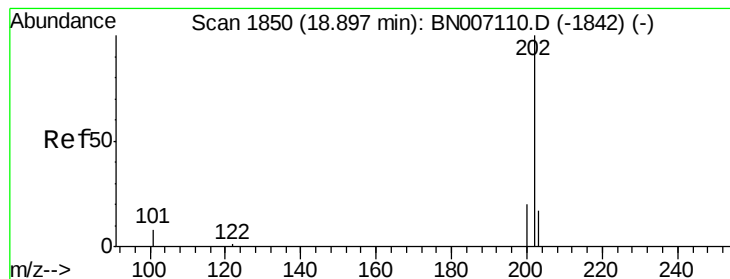
Ion Ratio Lower Upper

212 100

106 10.5 8.2 12.2

104 6.1 4.5 6.7





#25

Fluoranthene

Concen: 1.710 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

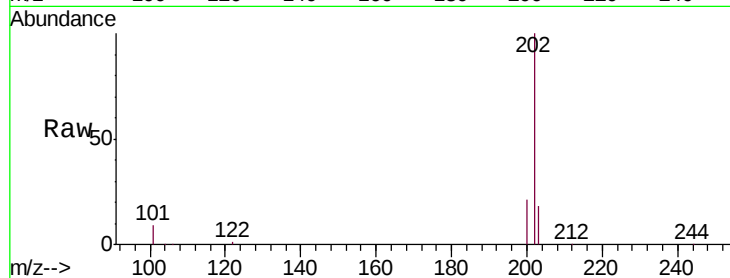
Tgt Ion:202 Resp: 310765

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

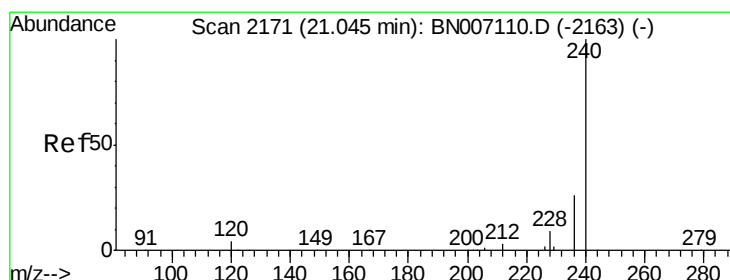
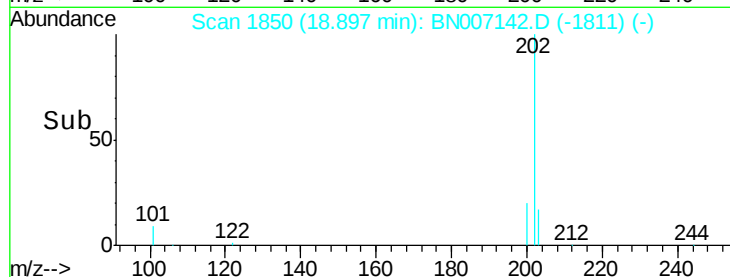
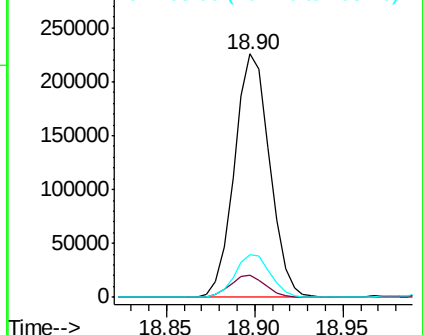
203 17.5 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

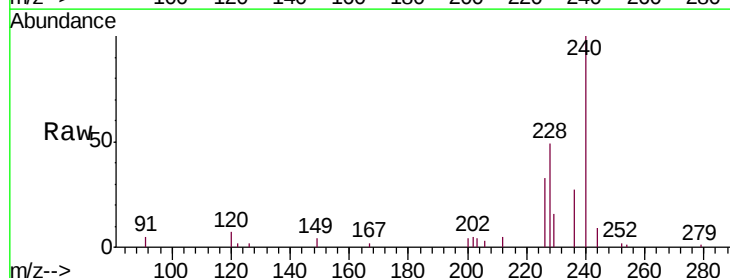
Tgt Ion:240 Resp: 46191

Ion Ratio Lower Upper

240 100

120 6.9 4.0 6.0#

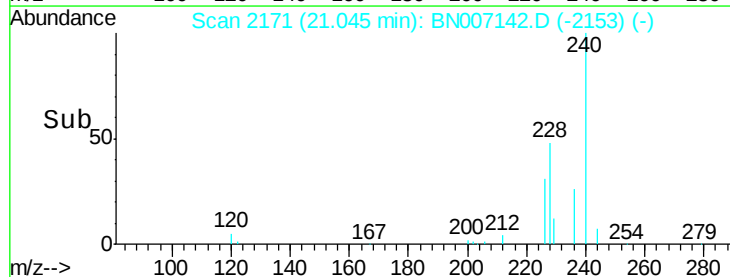
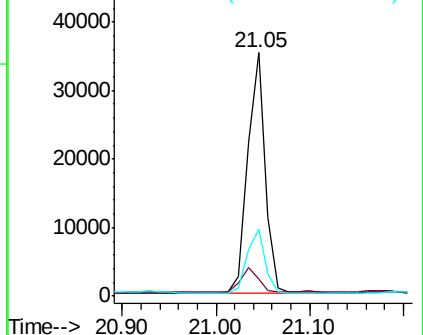
236 27.3 21.3 31.9

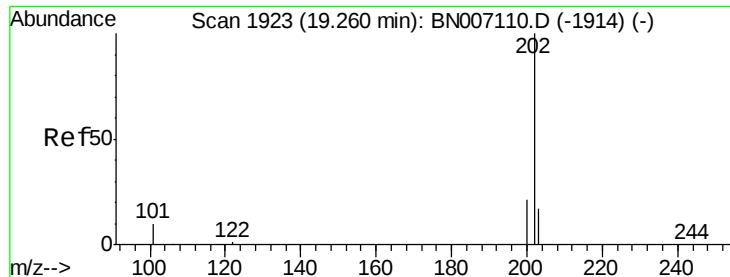


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

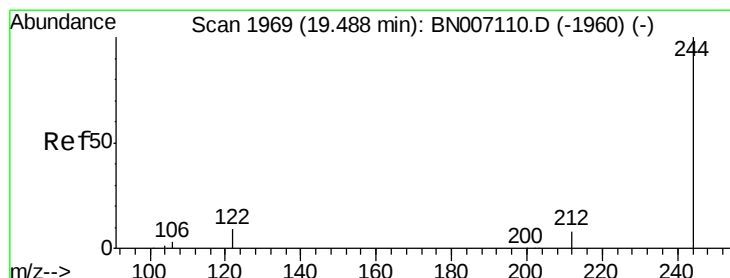
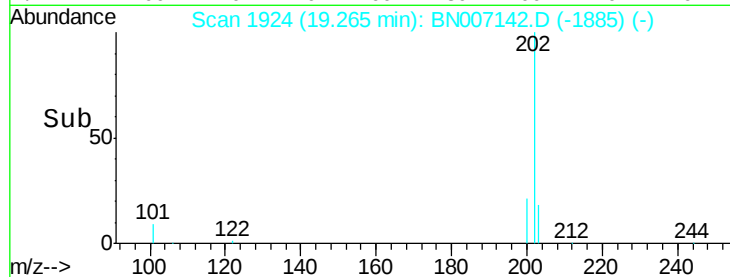
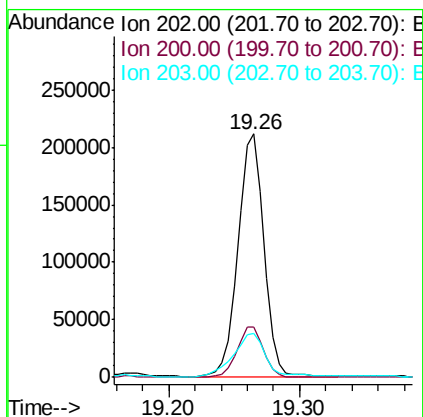
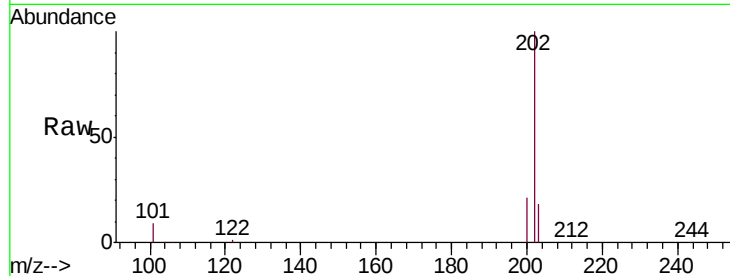




#27
 Pyrene
 Concen: 1.809 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007142.D
 Acq: 13 Aug 2019 21:19

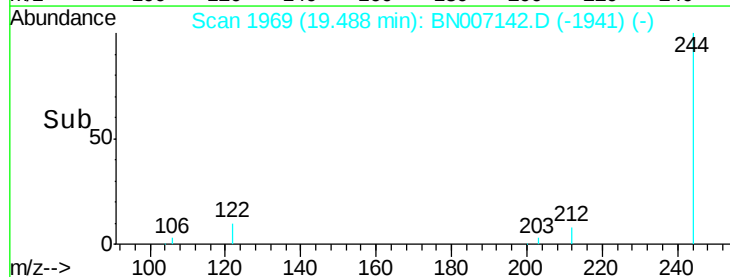
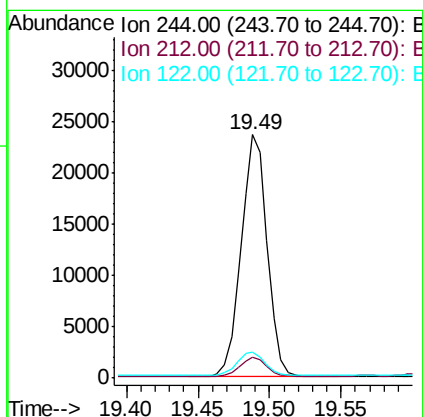
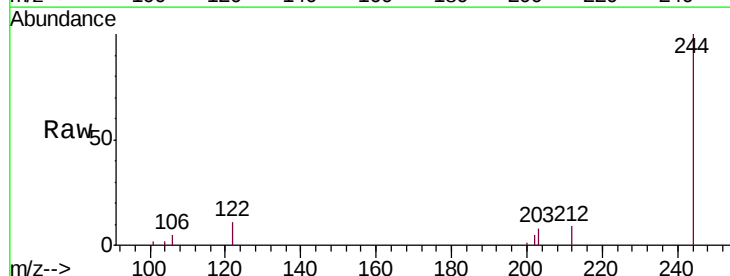
Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW107-073119

Tgt Ion: 202 Resp: 293081
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.6 24.8
 203 21.3 14.0 21.0#



#28
 Terphenyl-d14
 Concen: 0.236 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007142.D
 Acq: 13 Aug 2019 21:19

Tgt Ion: 244 Resp: 29695
 Ion Ratio Lower Upper
 244 100
 212 8.5 6.2 9.2
 122 10.8 7.4 11.2





#29

Benzo(a)anthracene

Concen: 0.927 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

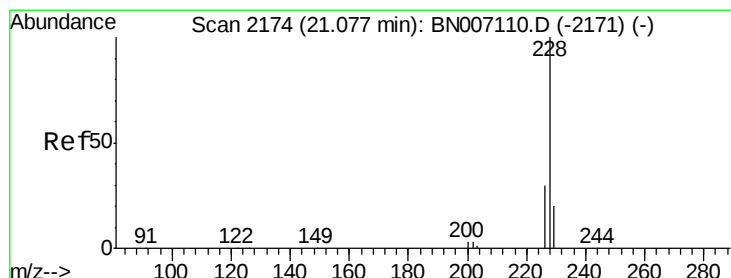
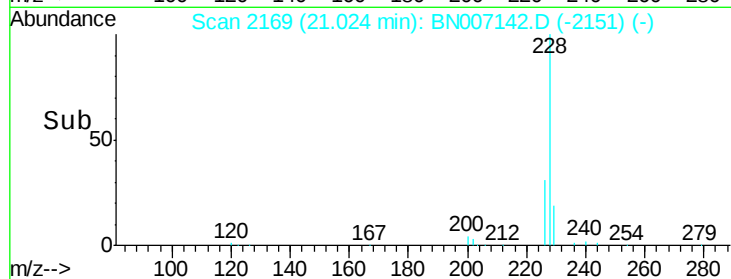
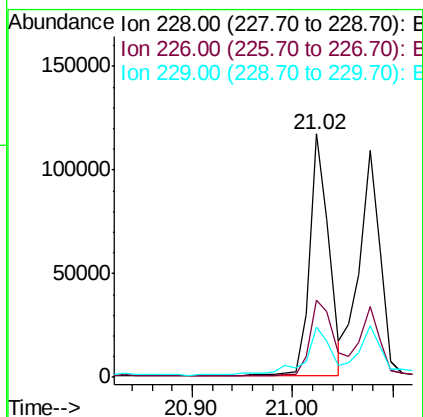
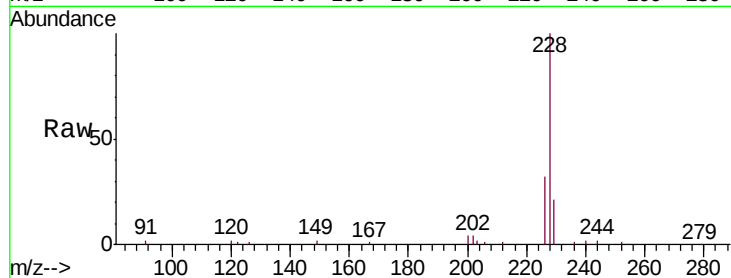
Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

Tgt Ion:	228	Resp:	156638
Ion	Ratio	Lower	Upper
228	100		
226	31.6	21.8	32.6
229	20.7	15.6	23.4



#30

Chrysene

Concen: 0.962 ng

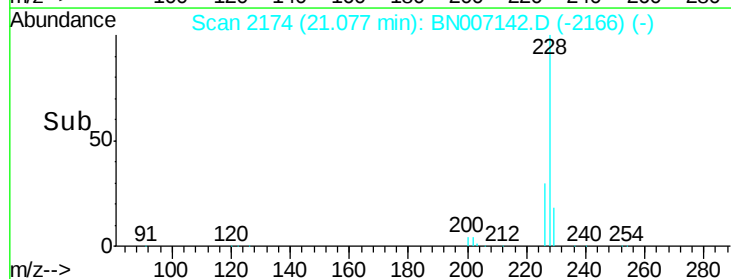
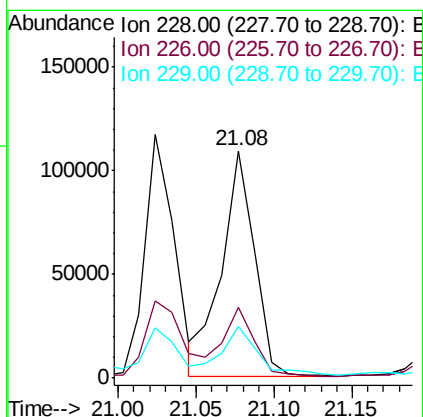
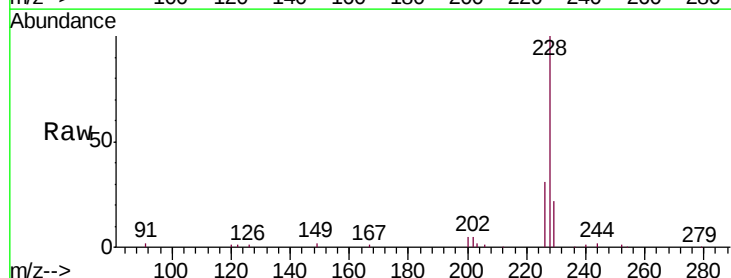
RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Tgt Ion:	228	Resp:	157871
Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.8	35.6
229	22.5	15.7	23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.515 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.02 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

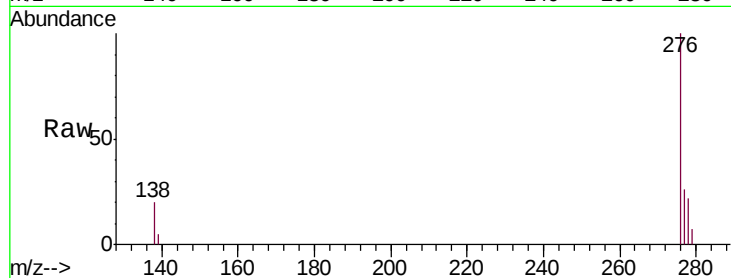
Tgt Ion:276 Resp: 93130

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

277 24.8 19.9 29.9

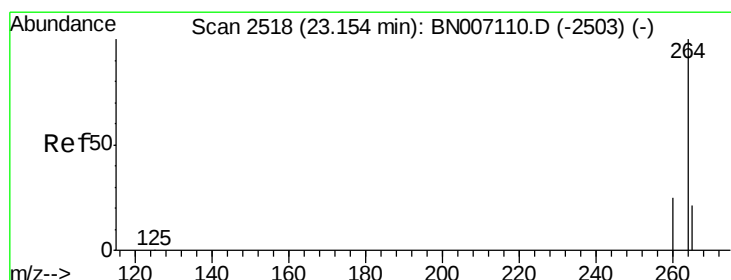
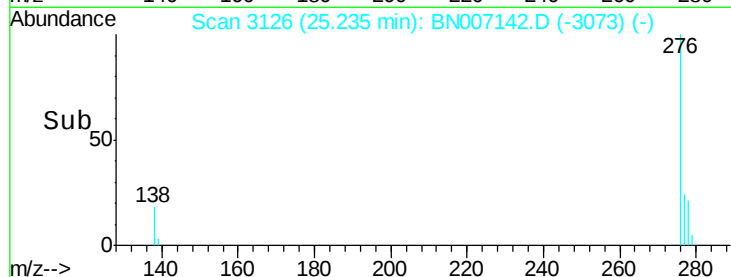
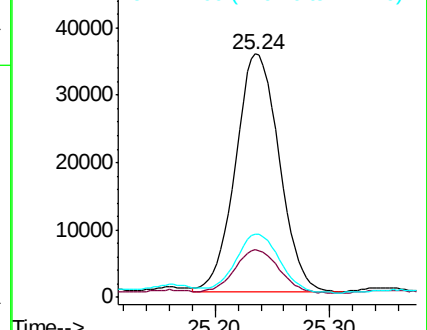


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

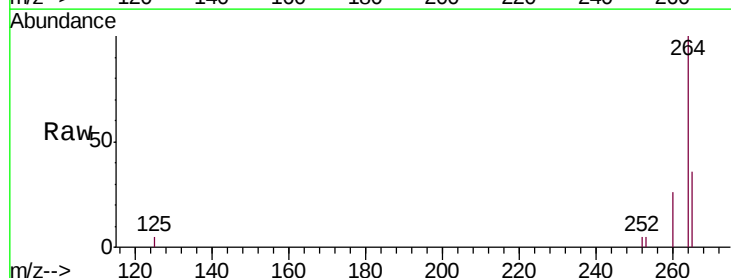
Tgt Ion:264 Resp: 50623

Ion Ratio Lower Upper

264 100

260 25.6 19.8 29.8

265 35.7 26.2 39.4

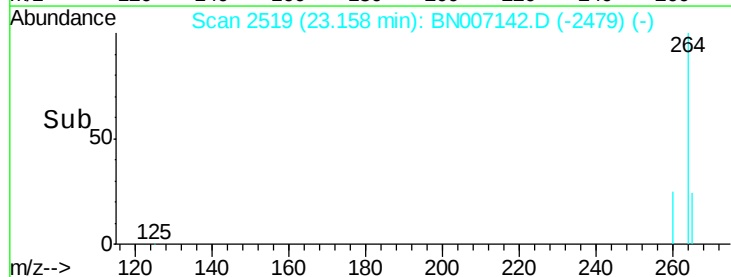
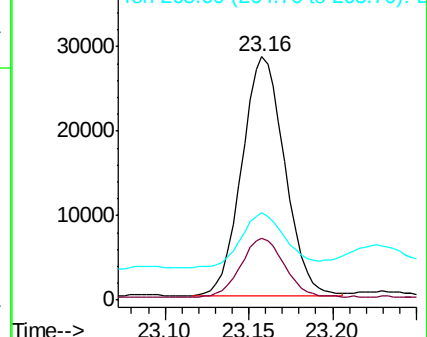


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 1.097 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

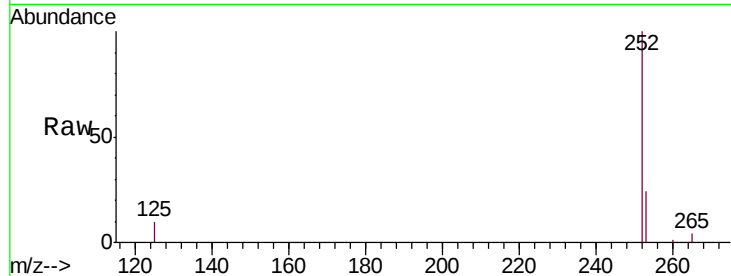
Tgt Ion:252 Resp: 190452

Ion Ratio Lower Upper

252 100

253 23.8 18.2 27.2

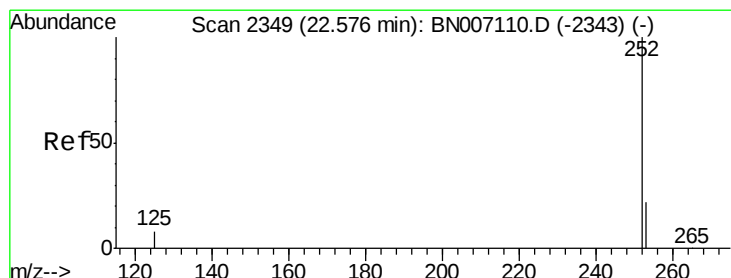
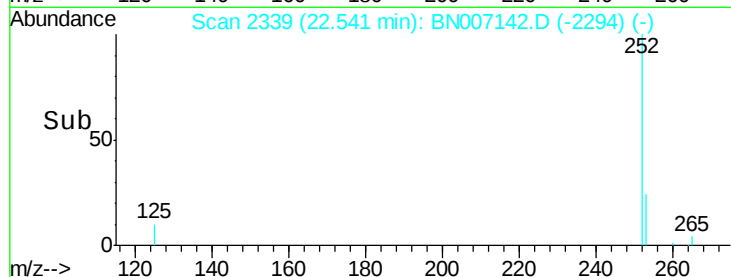
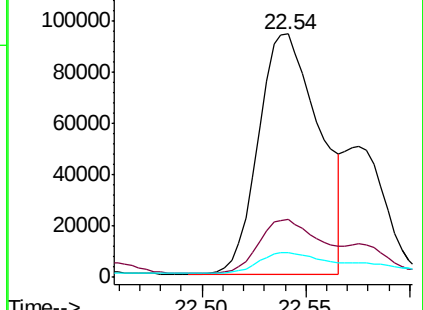
125 9.9 7.4 11.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(k)fluoranthene

Concen: 0.395 ng m

RT: 22.58 min Scan# 2349

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

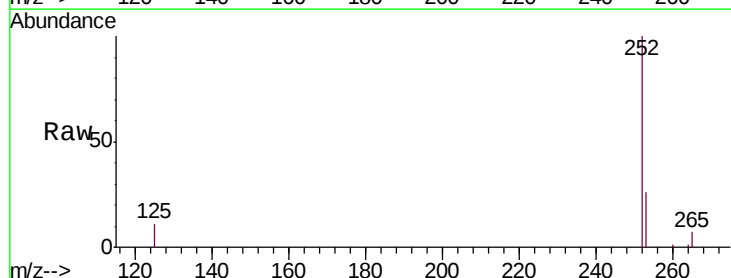
Tgt Ion:252 Resp: 67669

Ion Ratio Lower Upper

252 100

253 25.7 18.1 27.1

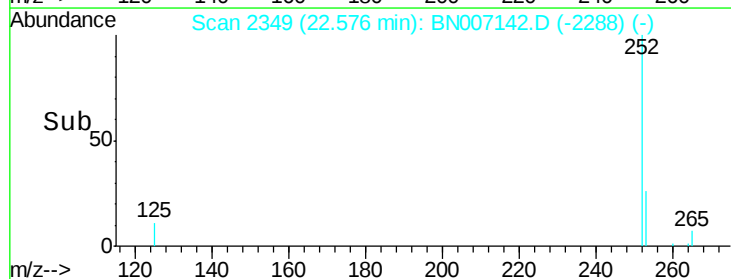
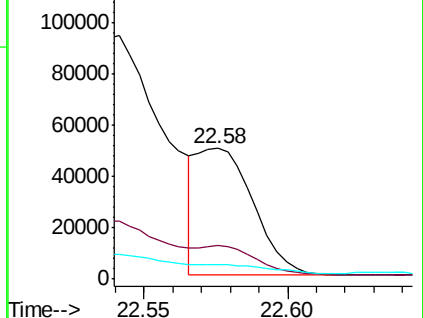
125 11.1 7.4 11.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.886 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119

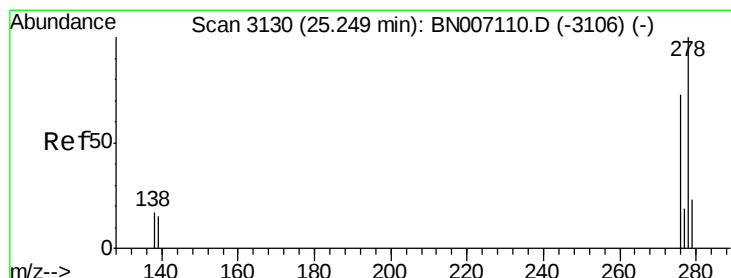
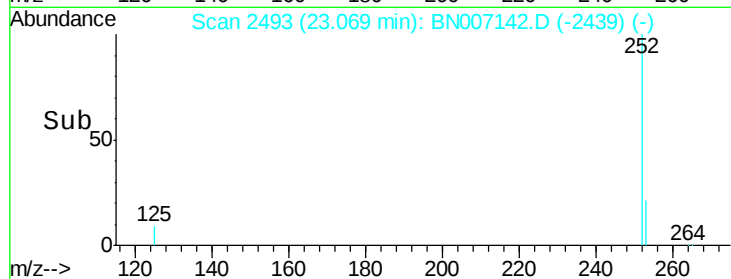
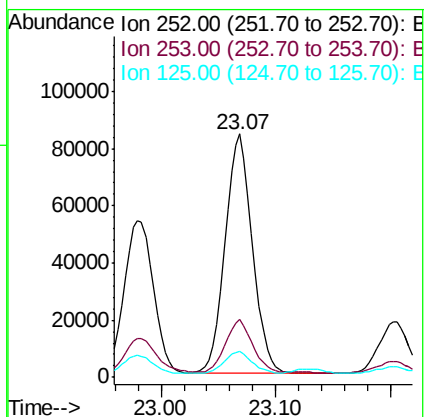
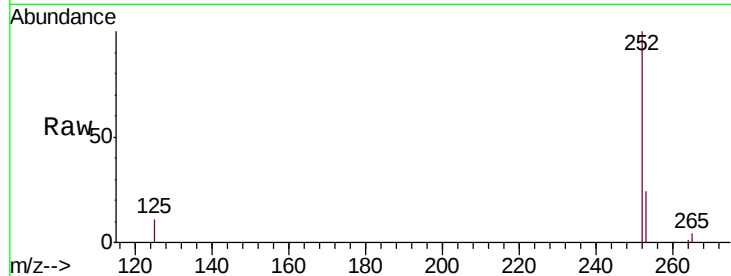
Tgt Ion: 252 Resp: 139383

Ion Ratio Lower Upper

252 100

253 23.7 18.5 27.7

125 10.5 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 0.159 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007142.D

Acq: 13 Aug 2019 21:19

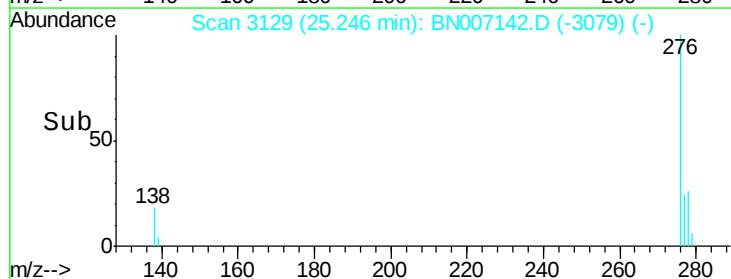
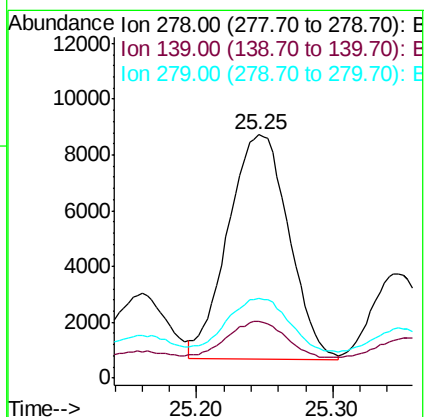
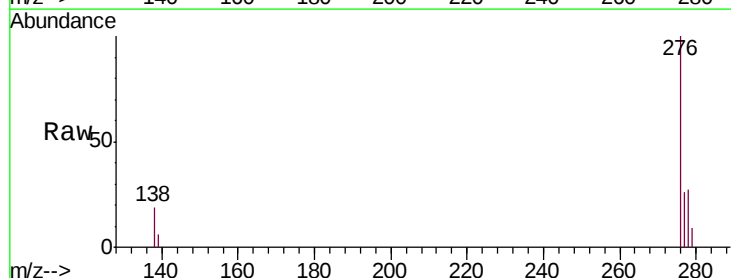
Tgt Ion: 278 Resp: 24963

Ion Ratio Lower Upper

278 100

139 23.4 11.3 16.9#

279 32.9 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 0.558 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

Lab File: BN007142.D

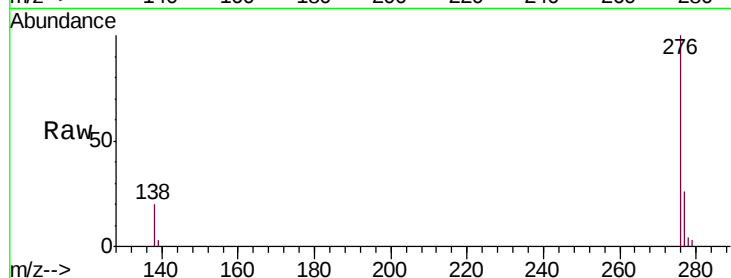
Acq: 13 Aug 2019 21:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW107-073119



Tgt Ion: 276 Resp: 90097

Ion Ratio Lower Upper

276 100

277 25.5 19.8 29.8

138 19.5 14.6 22.0

