

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007057.D
 Acq On : 10 Aug 2019 20:34
 Operator : HP/JU
 Sample : K4144-09
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:37:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	8486	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	31993	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	18588	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	46132	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48895	0.40	ng	-0.01
32) Perylene-d12	23.16	264	53270	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6288	0.31	ng	0.00
4) Phenol-d6	6.61	99	8440	0.33	ng	0.00
7) Nitrobenzene-d5	8.56	82	6399	0.25	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	15021	0.25	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1593	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	6409	0.24	ng	0.00
24) Fluoranthene-d10	18.87	212	38661	0.24	ng	0.00
28) Terphenyl-d14	19.49	244	29818	0.22	ng	0.00

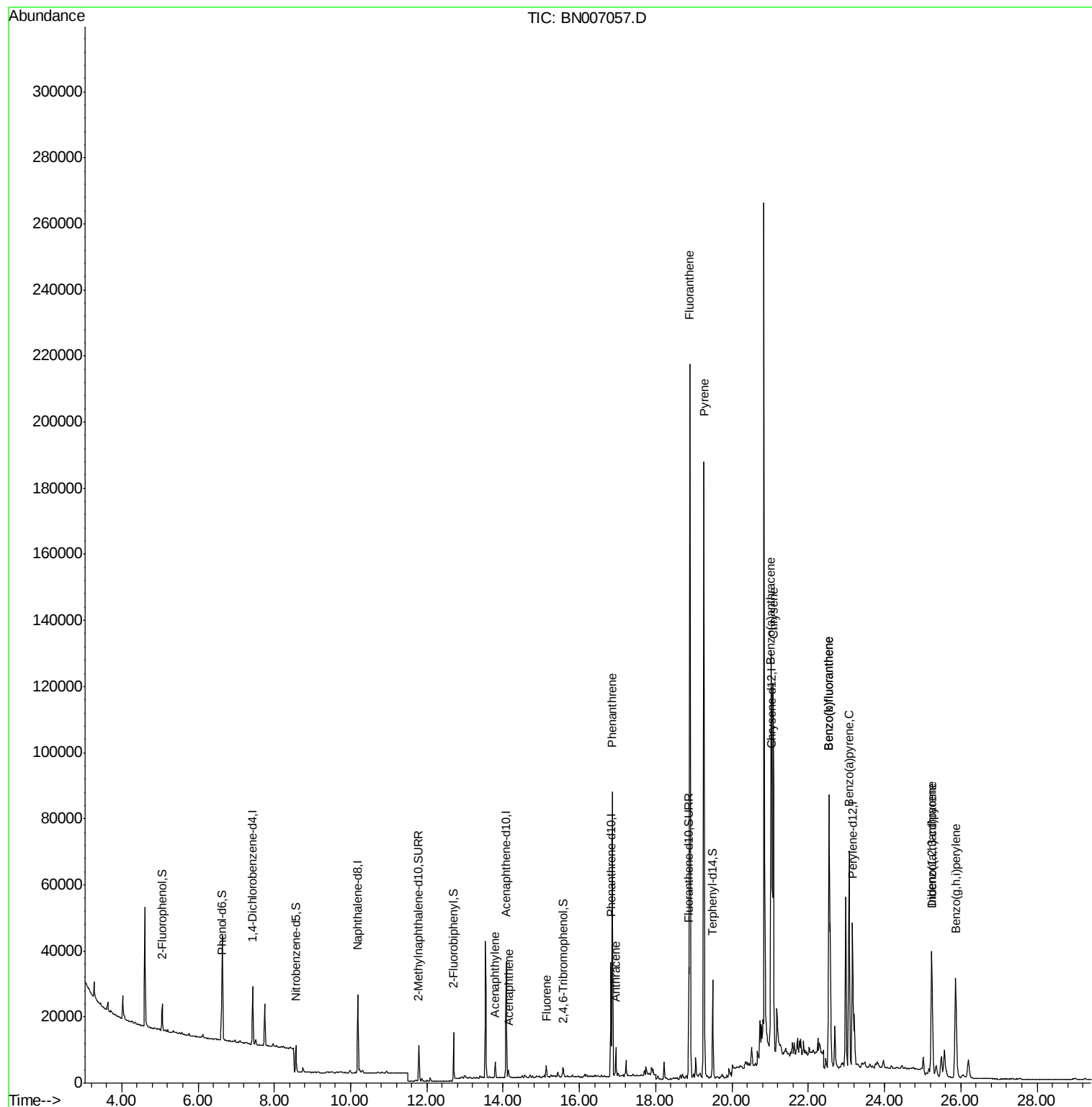
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acenaphthylene	13.79	152	5865	0.060	ng	98
16) Acenaphthene	14.14	154	1266	0.020	ng	# 93
17) Fluorene	15.13	166	2086	0.022	ng	92
22) Phenanthrene	16.87	178	83682	0.605	ng	100
23) Anthracene	16.96	178	9684	0.077	ng	# 95
25) Fluoranthene	18.90	202	198886	1.125	ng	100
27) Pyrene	19.26	202	172959	1.009	ng	96
29) Benzo(a)anthracene	21.02	228	105522	0.590	ng	96
30) Chrysene	21.08	228	100740	0.580	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	59818	0.312	ng	97
33) Benzo(b)fluoranthene	22.54	252	133481	0.731	ng	99
34) Benzo(k)fluoranthene	22.54	252	133481	0.740	ng	99
35) Benzo(a)pyrene	23.07	252	88354	0.534	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	15769	0.095	ng	# 89
37) Benzo(a,h,i)perylene	25.87	276	62337	0.367	ng	100

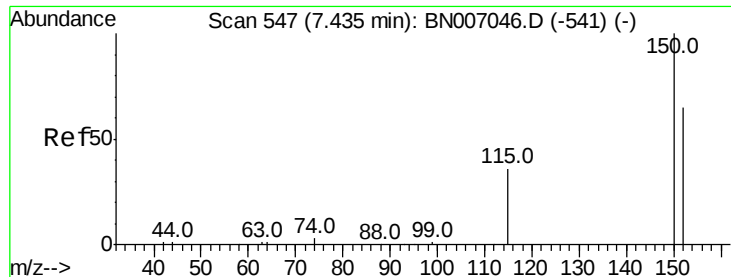
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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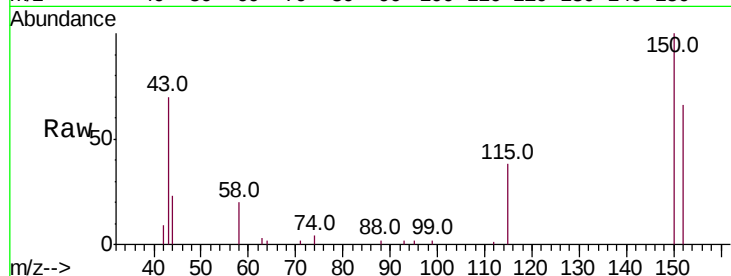


#1

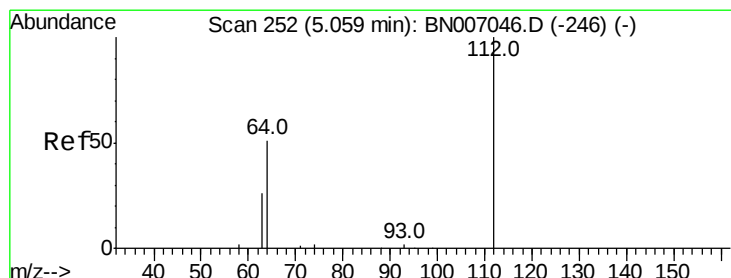
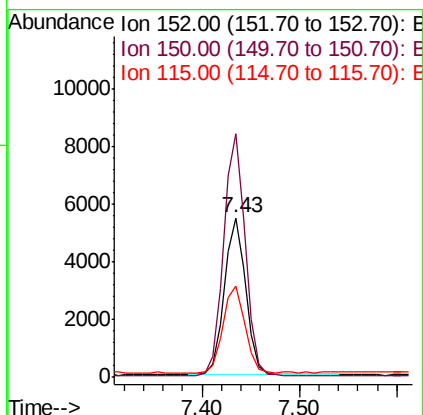
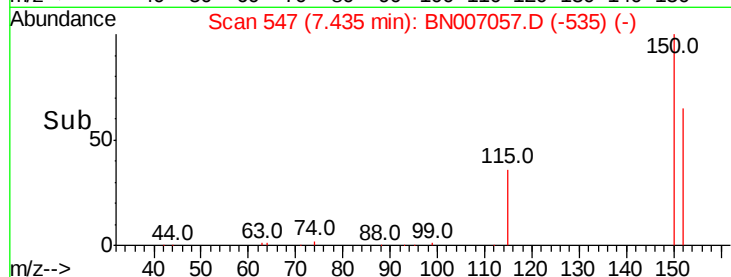
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007057.D
Acq: 10 Aug 2019 20:34

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 8486
Ion Ratio Lower Upper
152 100
150 152.4 121.7 182.5
115 57.3 46.2 69.4



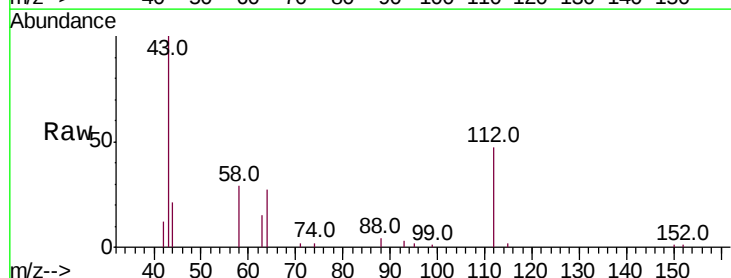
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



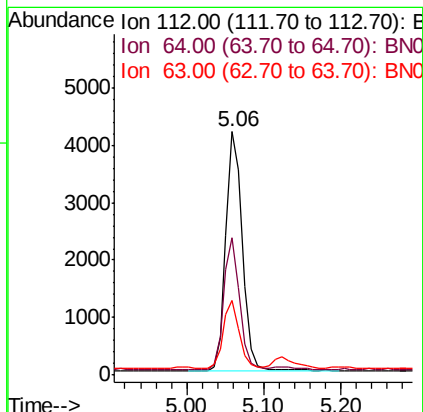
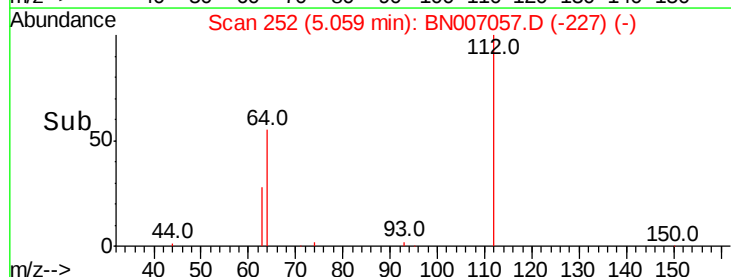
#3

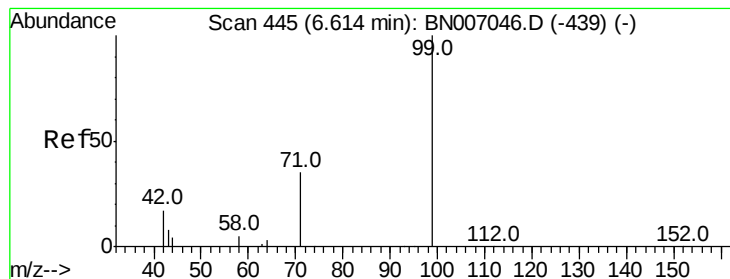
2-Fluorophenol
Concen: 0.308 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007057.D
Acq: 10 Aug 2019 20:34

Tgt Ion:112 Resp: 6288
Ion Ratio Lower Upper
112 100
64 51.8 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: 0.334 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

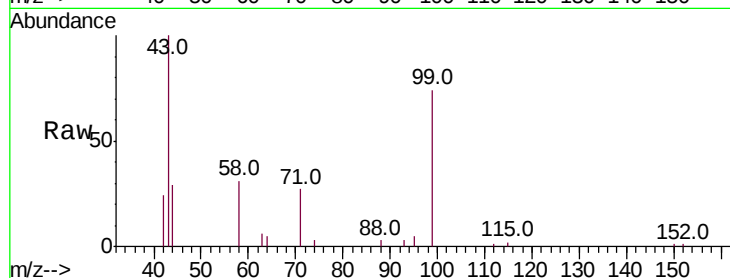
Tot Ion: 99 Resp: 8440

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

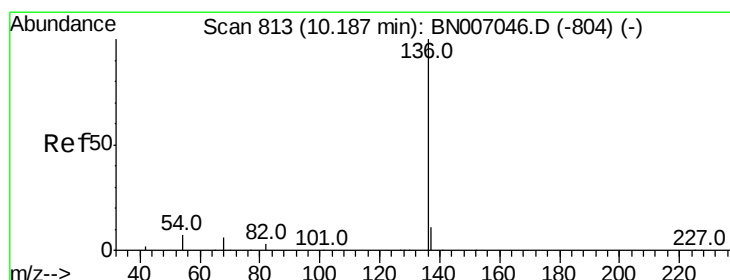
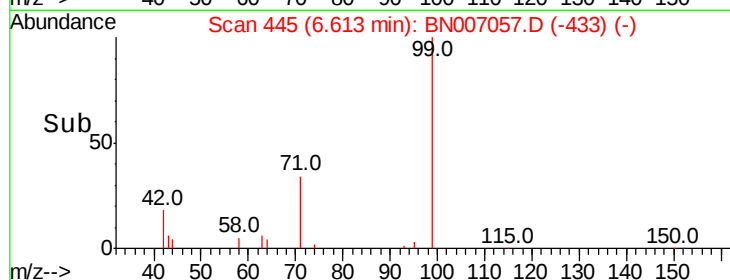
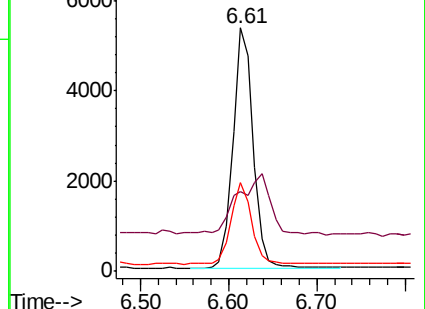
71 35.0 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Tgt Ion: 136 Resp: 31993

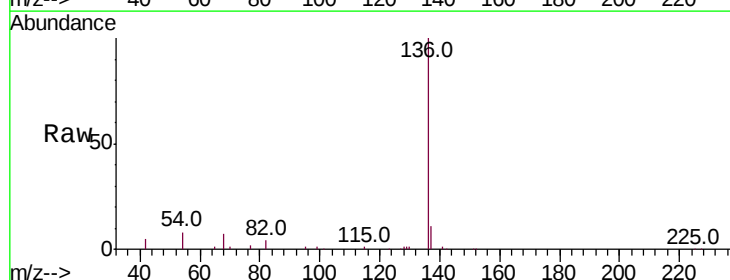
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 7.7 6.6 9.8

68 6.8 6.0 9.0

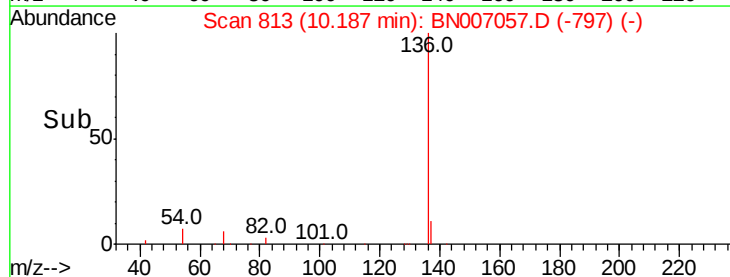
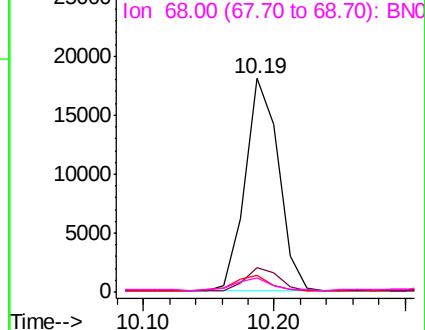


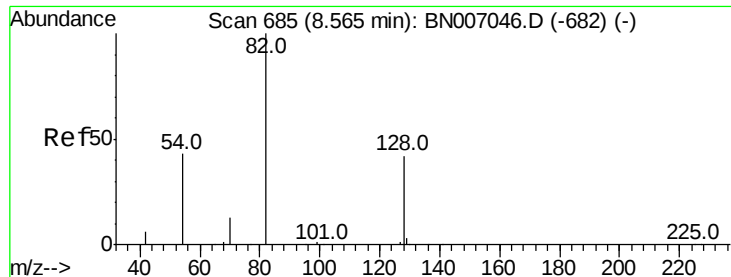
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.248 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

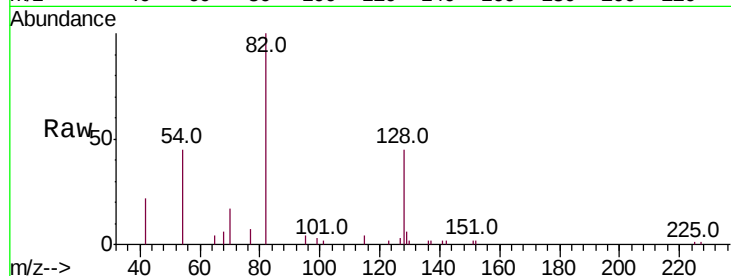
Tot Ion: 82 Resp: 6399

Ion Ratio Lower Upper

82 100

128 44.6 34.6 51.8

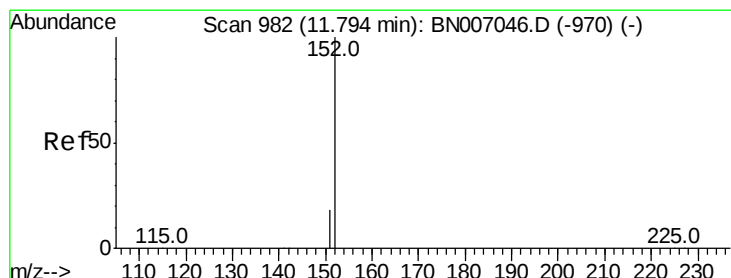
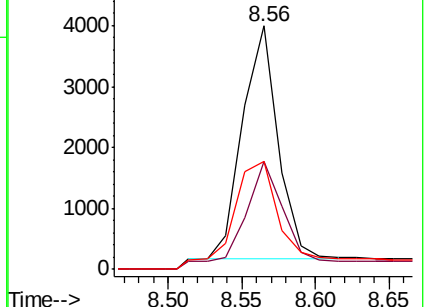
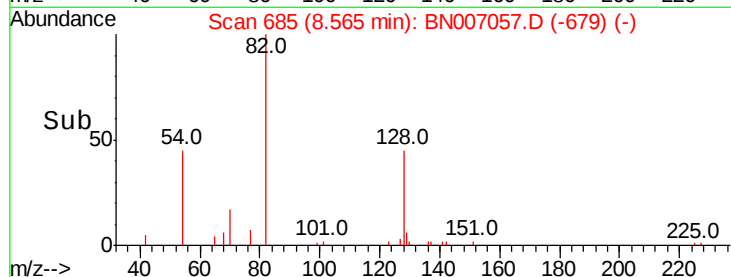
54 44.6 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.252 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007057.D

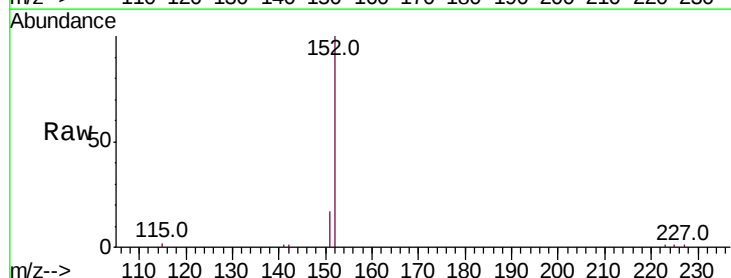
Acq: 10 Aug 2019 20:34

Tgt Ion: 152 Resp: 15021

Ion Ratio Lower Upper

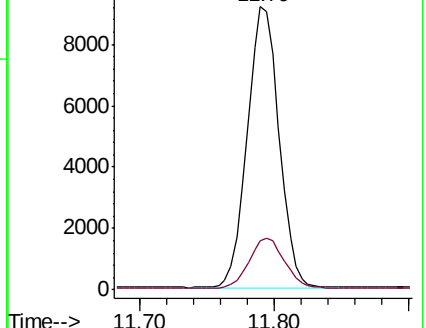
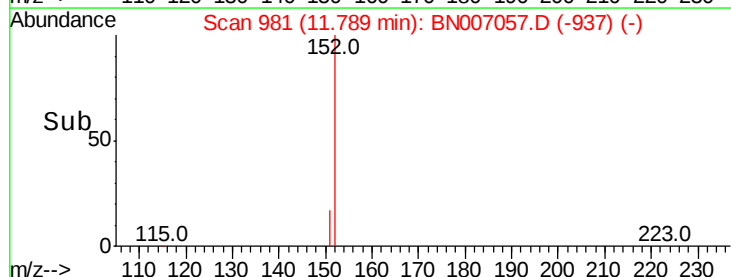
152 100

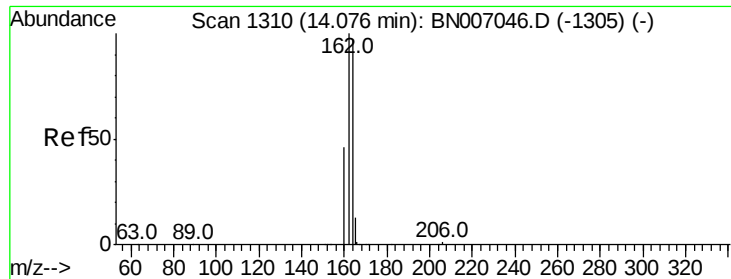
151 19.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

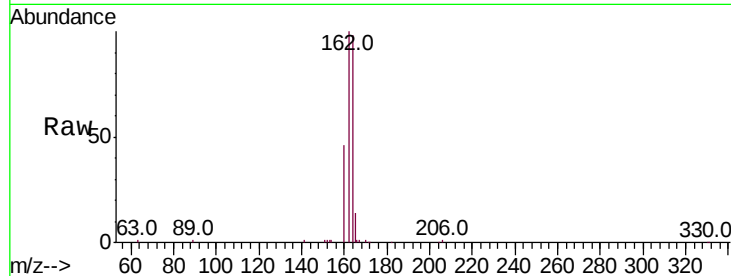
Tot Ion:164 Resp: 18588

Ion Ratio Lower Upper

164 100

162 101.8 82.2 123.4

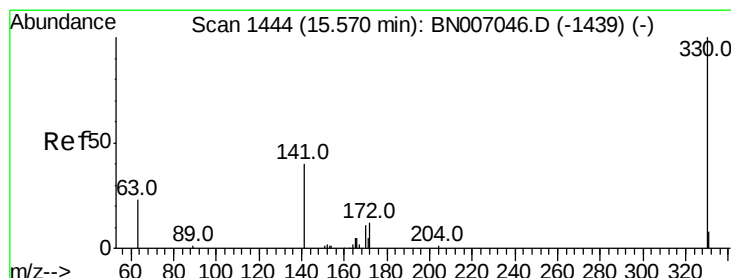
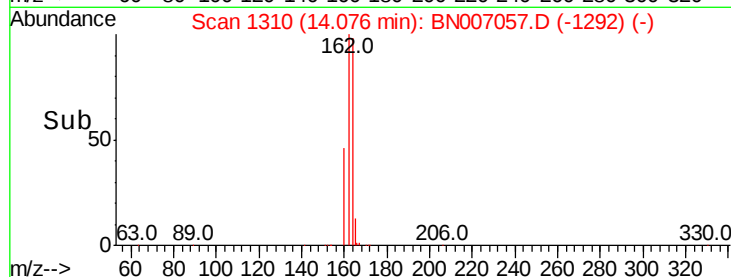
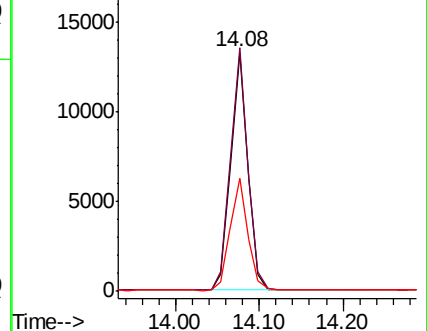
160 47.2 38.3 57.5



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: 0.159 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

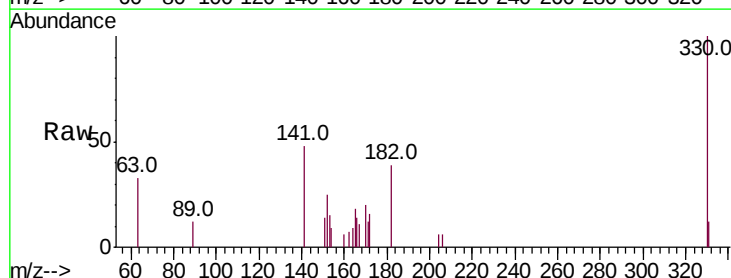
Tgt Ion:330 Resp: 1593

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

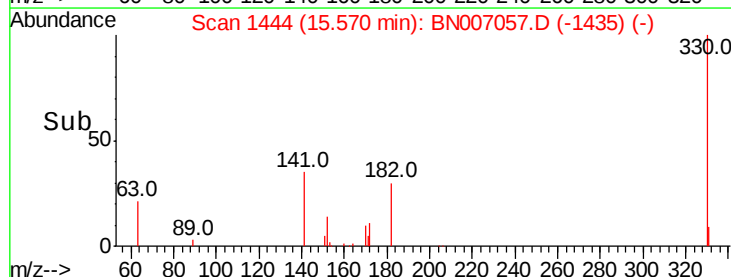
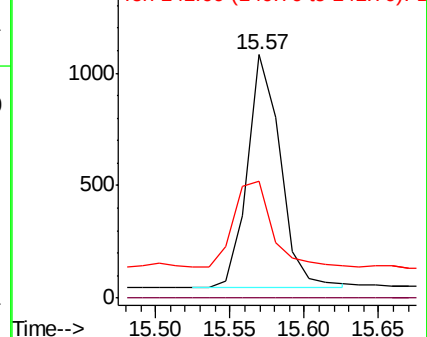
141 43.4 33.6 50.4

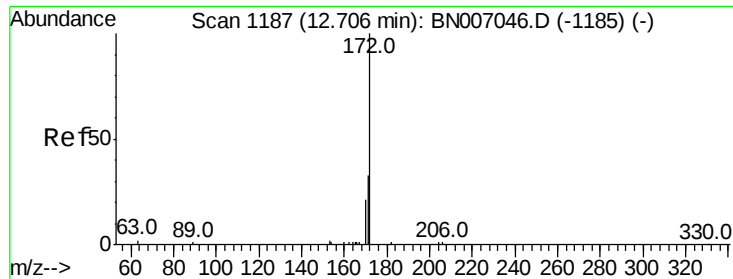


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

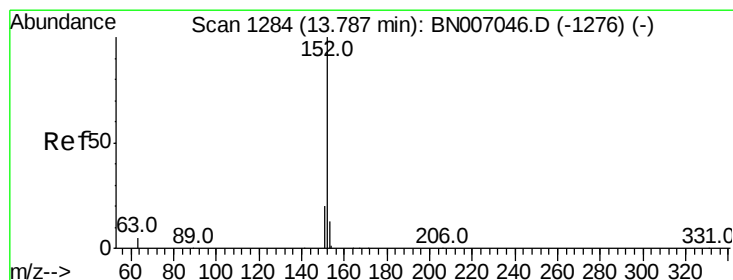
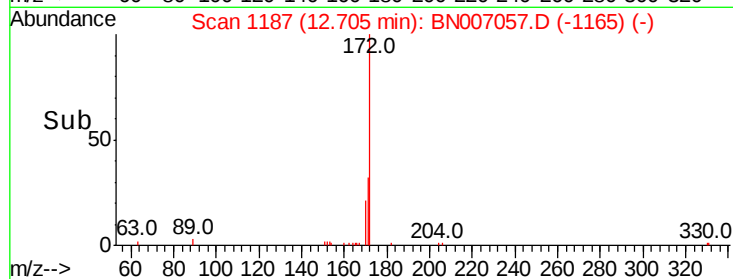
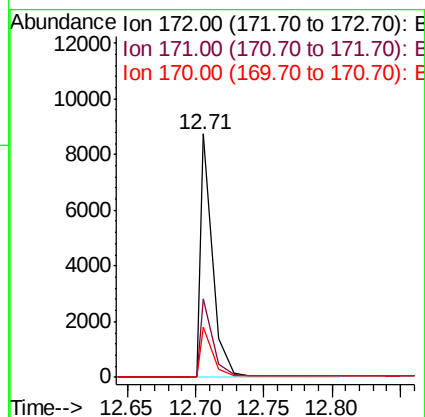
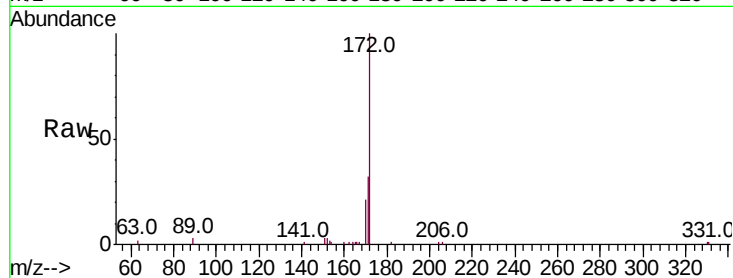




#14
2-Fluorobiphenyl
Concen: 0.237 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007057.D
Acq: 10 Aug 2019 20:34

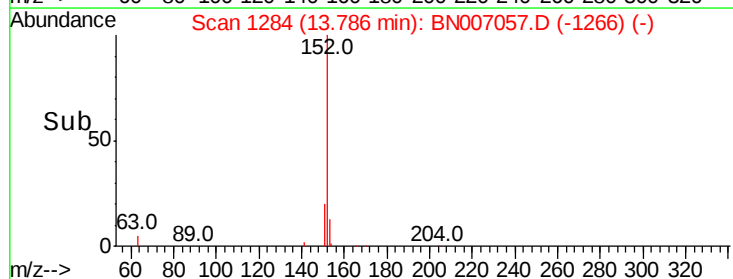
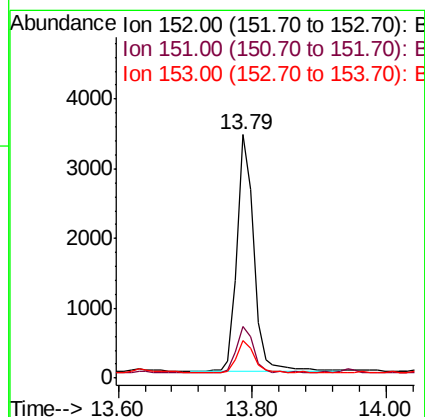
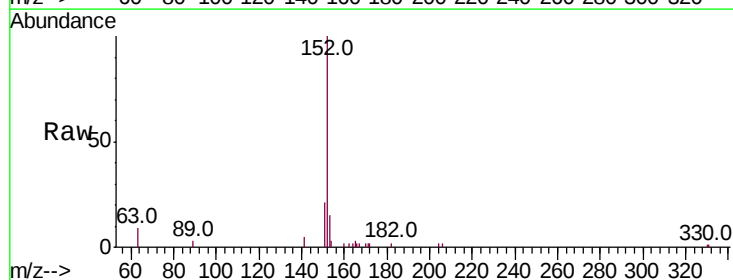
Instrument :
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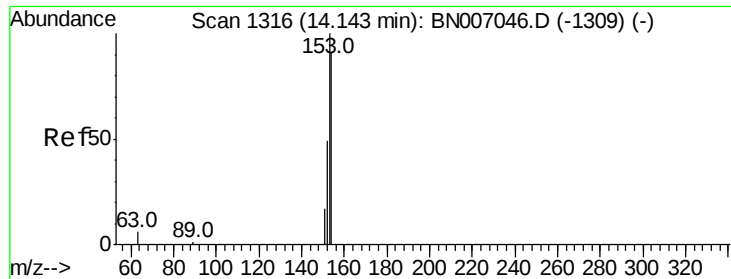
Tot Ion:172 Resp: 6409
Ion Ratio Lower Upper
172 100
171 32.5 26.3 39.5
170 20.8 17.0 25.4



#15
Acenaphthylene
Concen: 0.060 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007057.D
Acq: 10 Aug 2019 20:34

Tgt Ion:152 Resp: 5865
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.6
153 14.1 10.4 15.6





#16

Acenaphthene

Concen: 0.020 ng

RT: 14.14 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

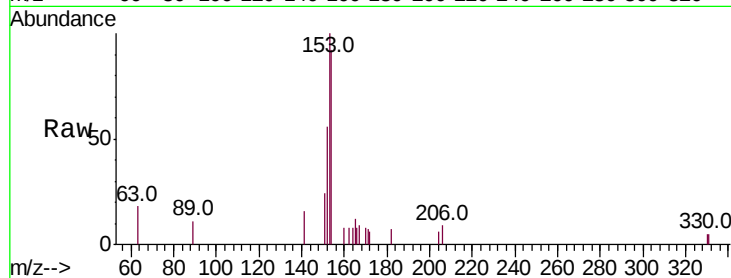
Tot Ion:154 Resp: 1266

Ion Ratio Lower Upper

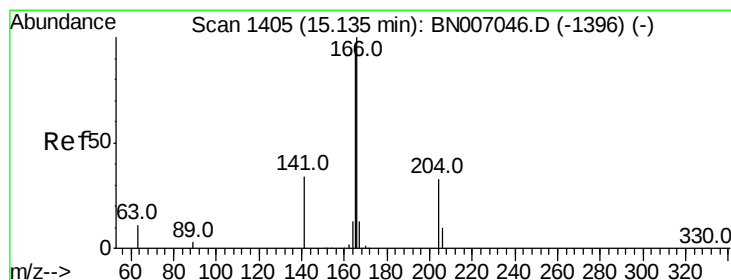
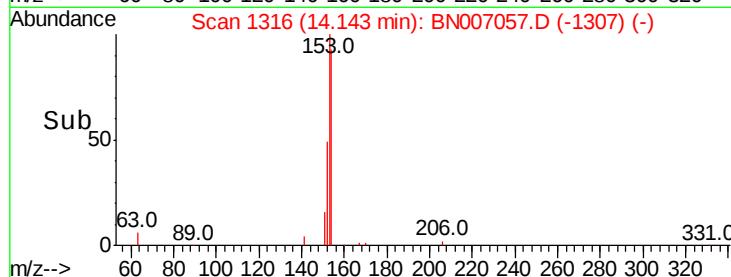
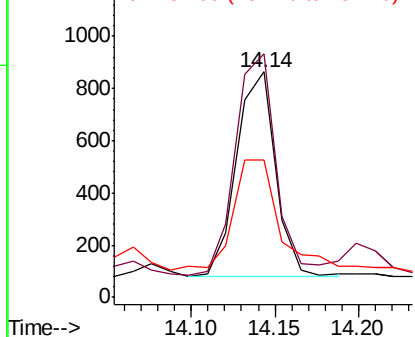
154 100

153 112.1 89.5 134.3

152 70.2 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: 0.022 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

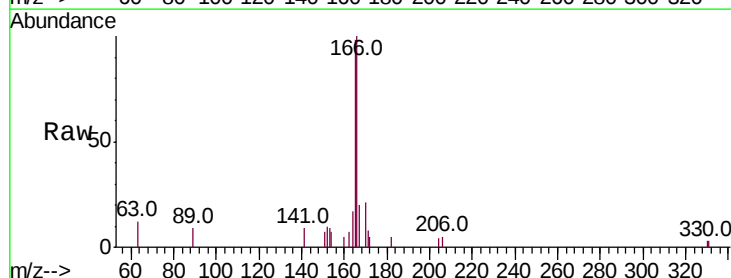
Tgt Ion:166 Resp: 2086

Ion Ratio Lower Upper

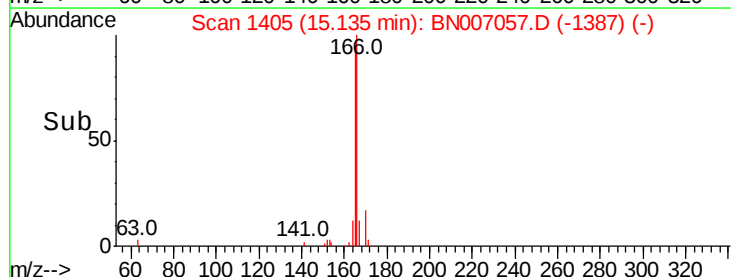
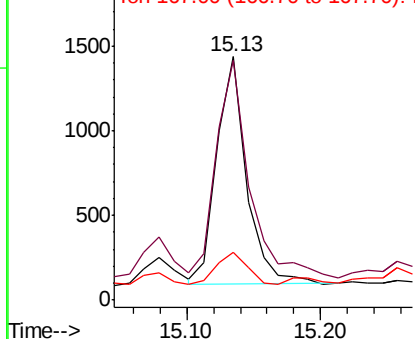
166 100

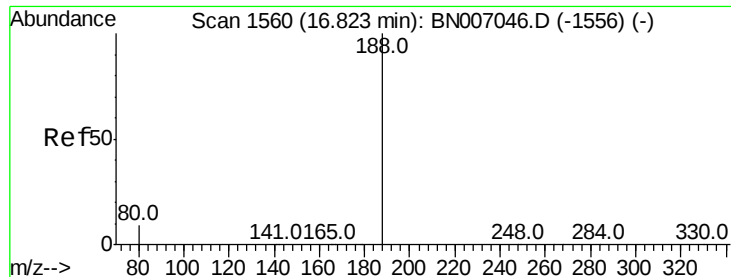
165 106.1 77.9 116.9

167 14.9 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: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

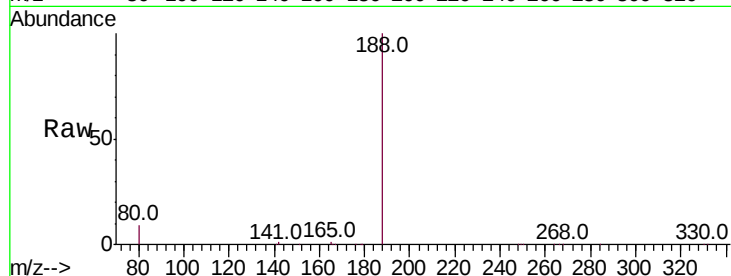
Tot Ion:188 Resp: 46132

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

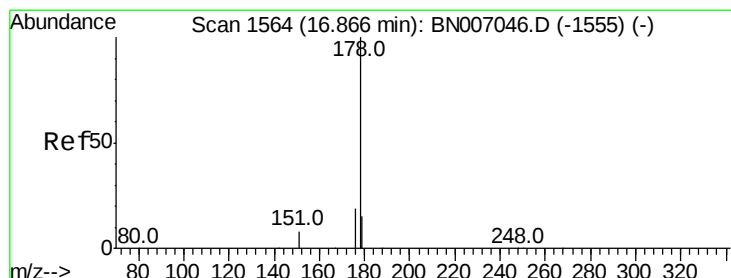
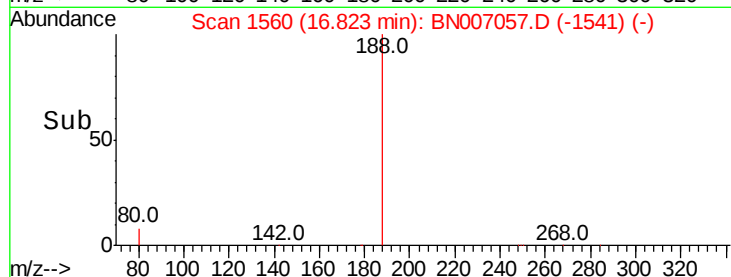
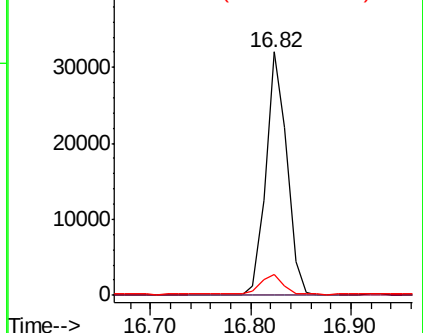
80 8.7 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 0.605 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

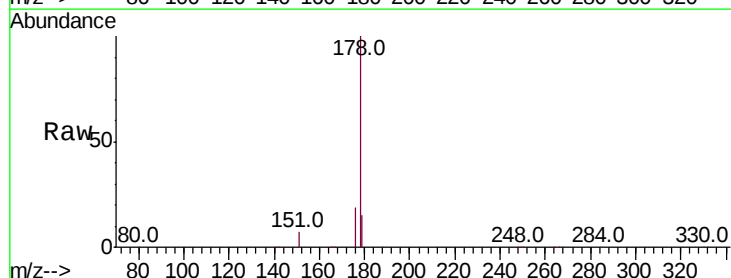
Tgt Ion:178 Resp: 83682

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

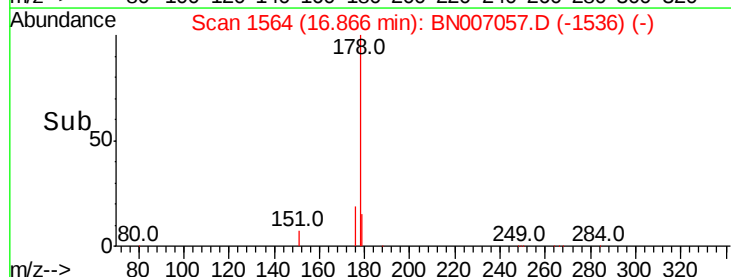
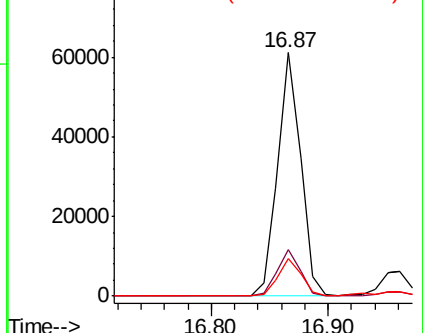
179 15.5 12.3 18.5

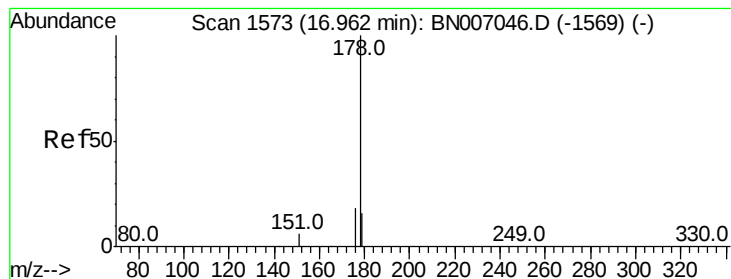


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.077 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

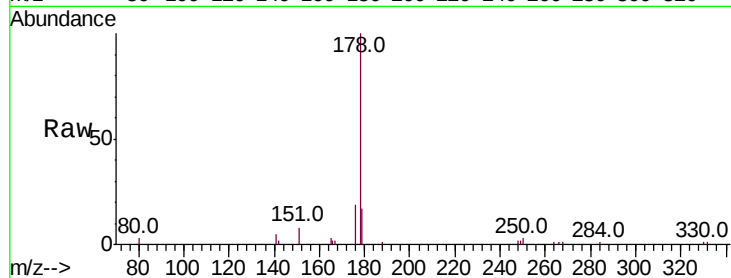
Tot Ion:178 Resp: 9684

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

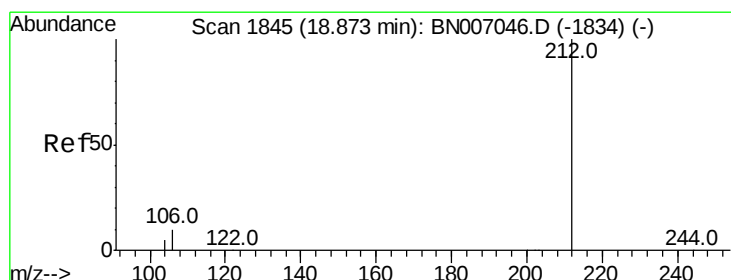
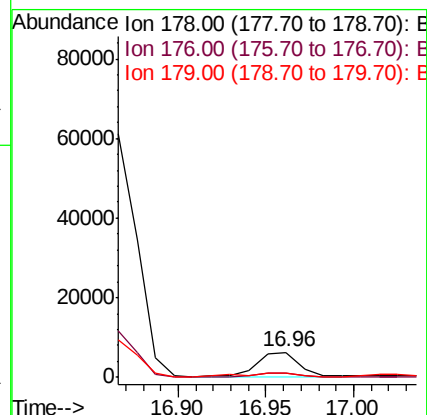
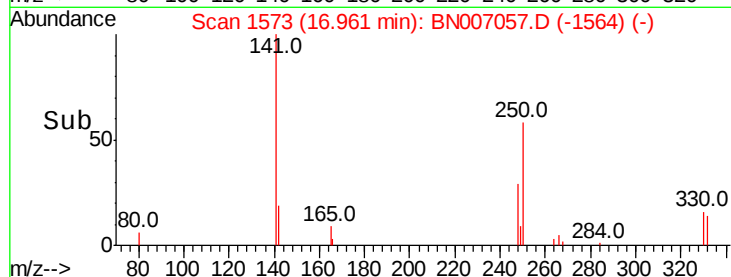
179 19.8 12.5 18.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene-d10

Concen: 0.236 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

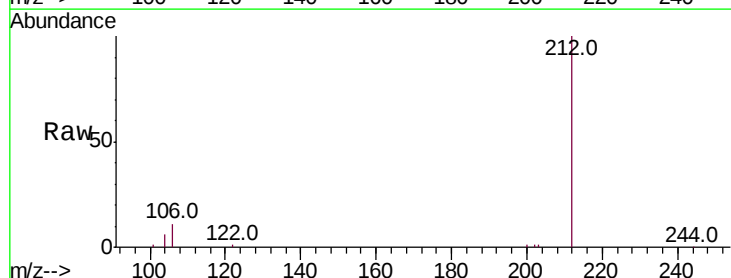
Tgt Ion:212 Resp: 38661

Ion Ratio Lower Upper

212 100

106 9.9 8.2 12.2

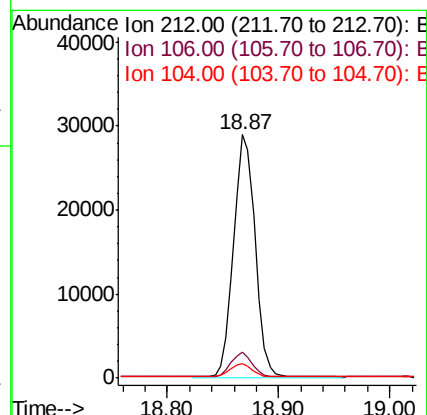
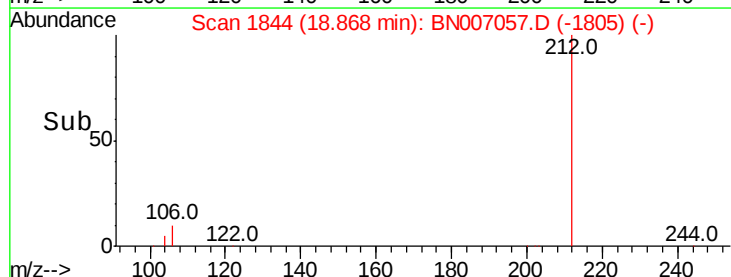
104 5.5 4.5 6.7

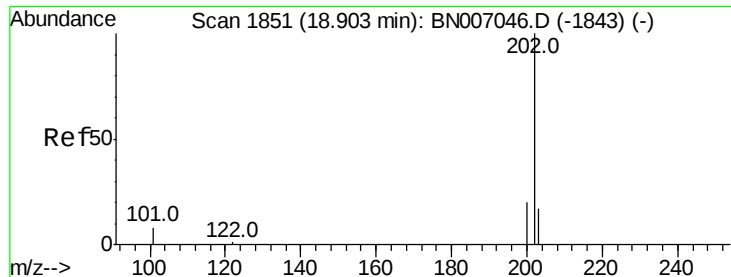


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 1.125 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

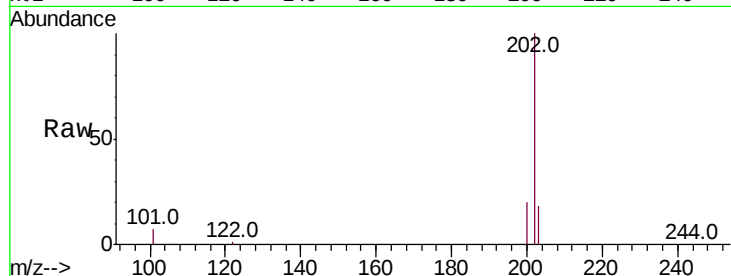
Tot Ion:202 Resp: 198886

Ion Ratio Lower Upper

202 100

101 8.5 7.0 10.4

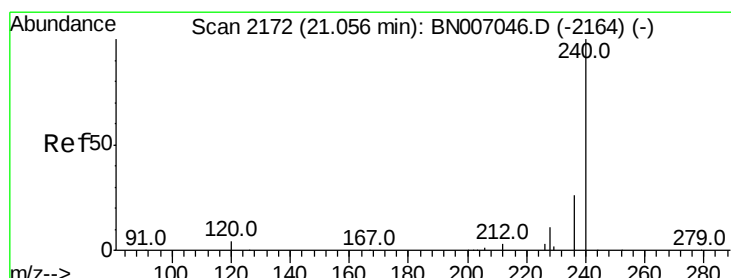
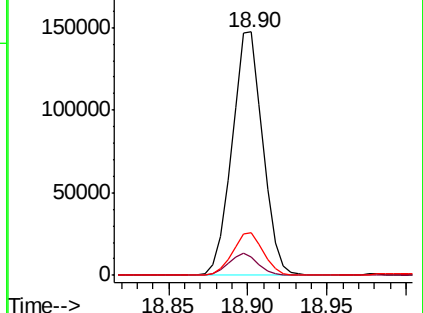
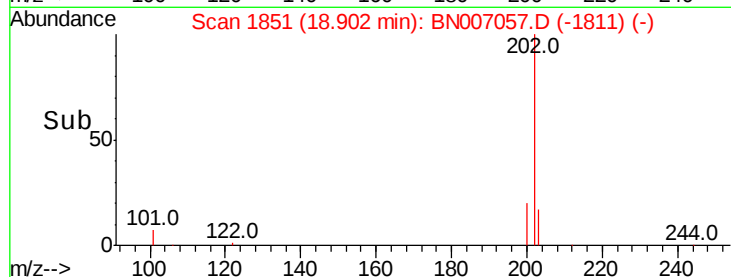
203 17.4 13.8 20.8



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: BN007057.D

Acq: 10 Aug 2019 20:34

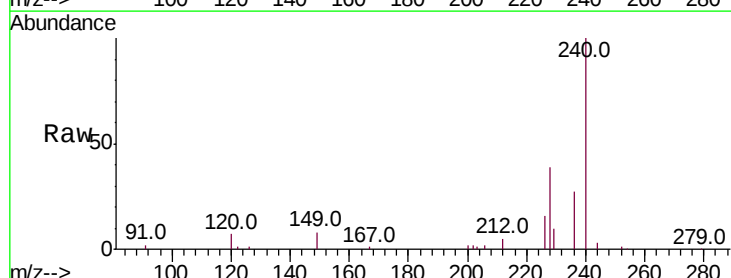
Tgt Ion:240 Resp: 48895

Ion Ratio Lower Upper

240 100

120 7.3 4.0 6.0#

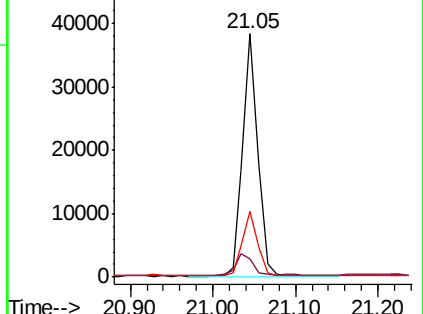
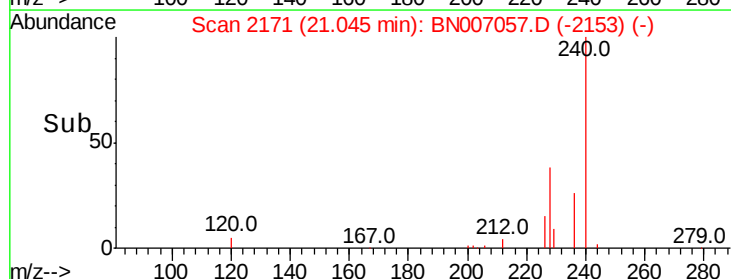
236 27.0 21.3 31.9

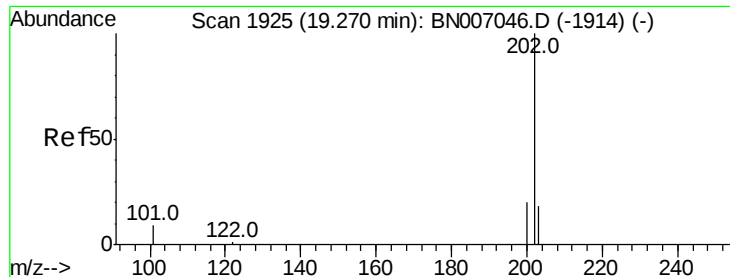


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pvrene

Concen: 1.009 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

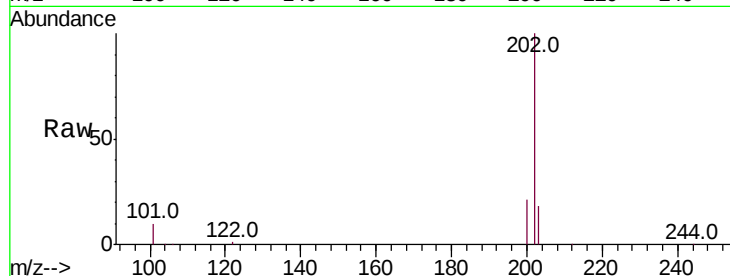
Tot Ion:202 Resp: 172959

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

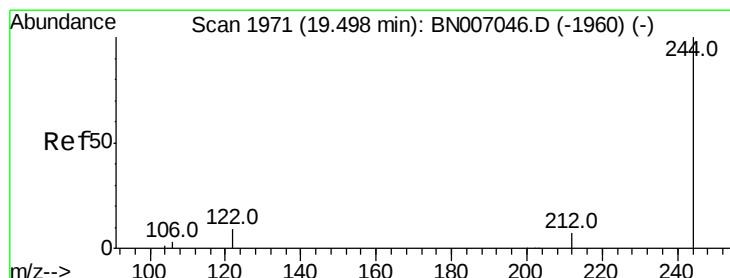
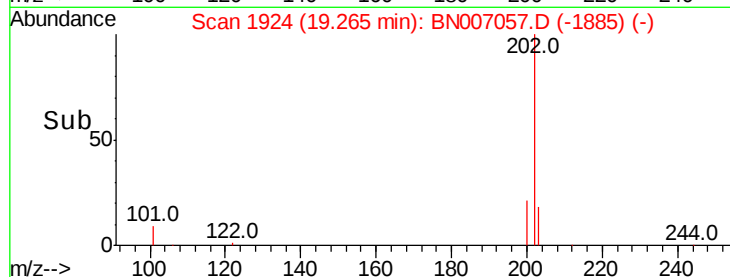
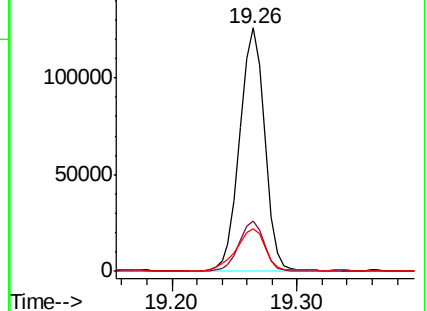
203 20.9 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.224 ng

RT: 19.49 min Scan# 1970

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

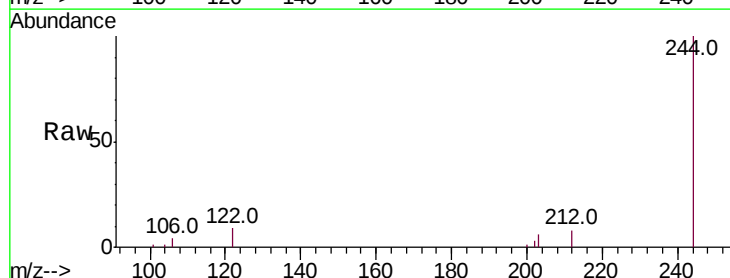
Tgt Ion:244 Resp: 29818

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

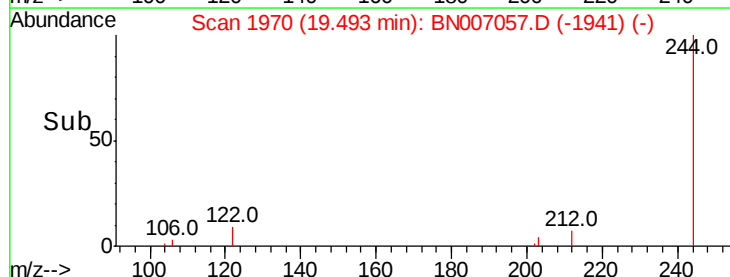
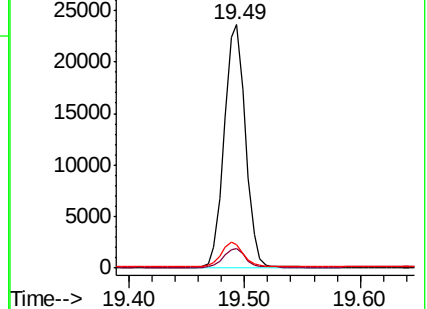
122 9.4 7.4 11.2

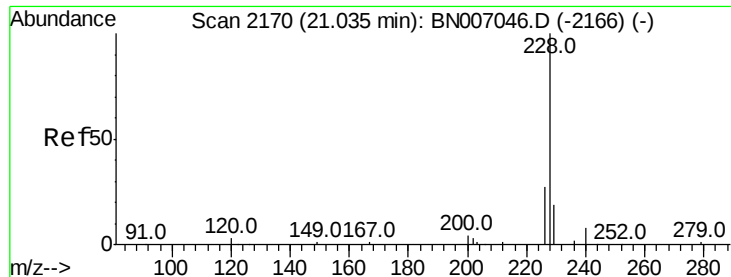


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 0.590 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

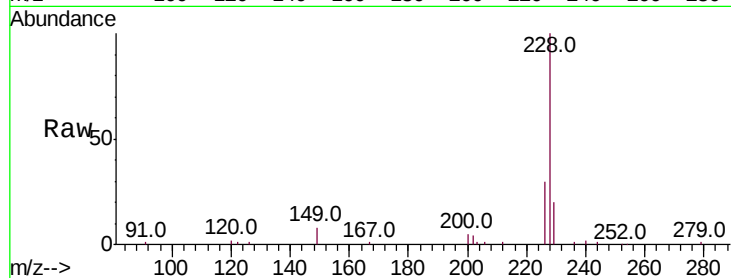
Tot Ion:228 Resp: 105522

Ion Ratio Lower Upper

228 100

226 29.7 21.8 32.6

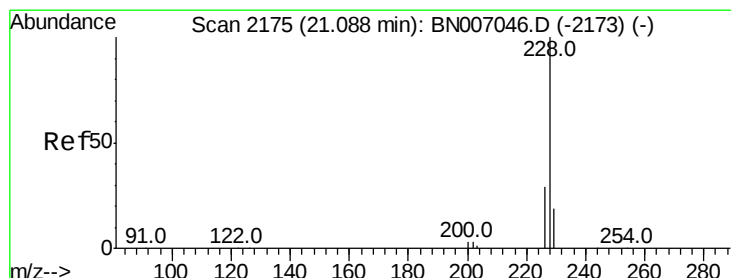
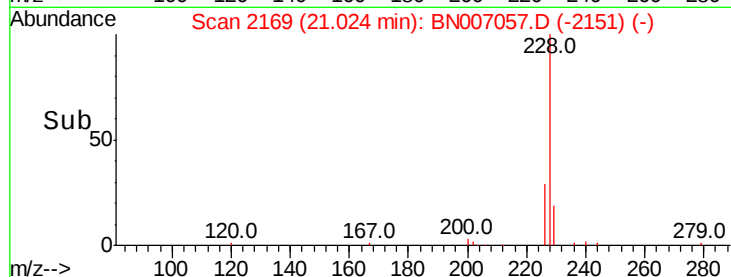
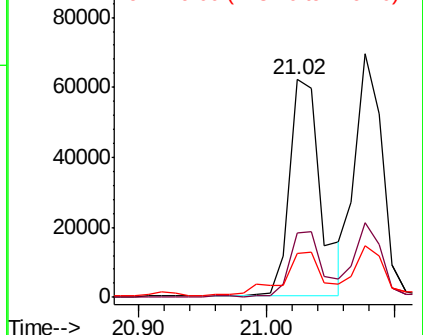
229 20.3 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 0.580 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

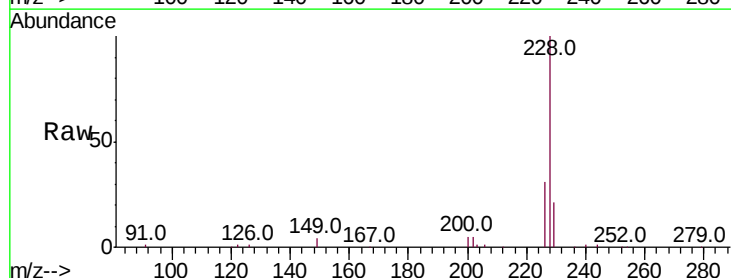
Tgt Ion:228 Resp: 100740

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.6

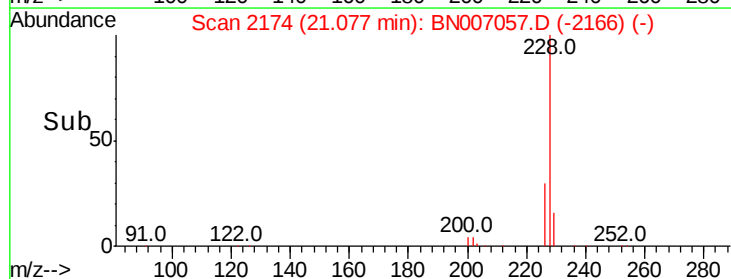
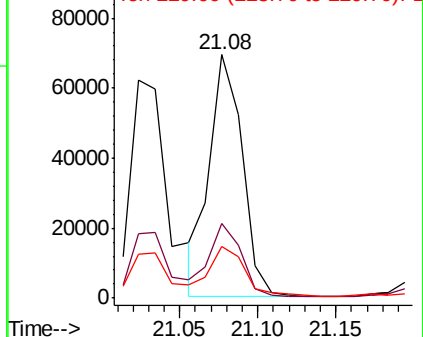
229 21.5 15.7 23.5

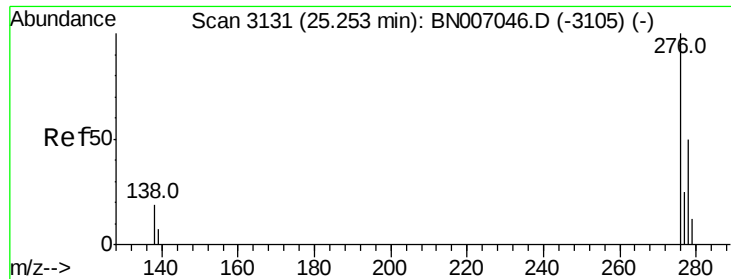


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

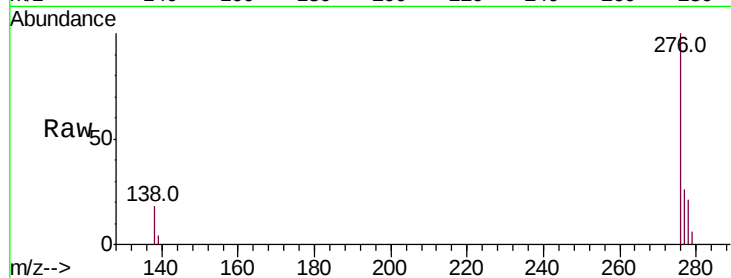




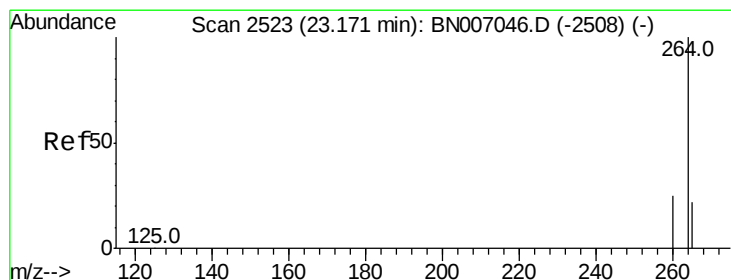
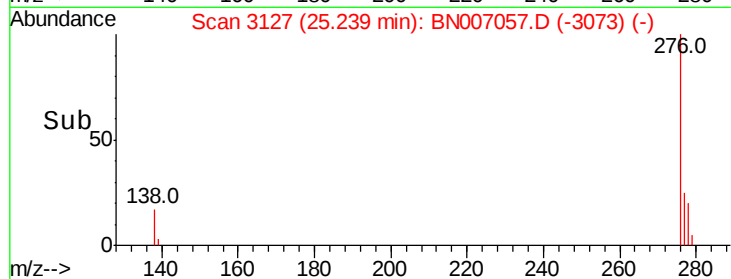
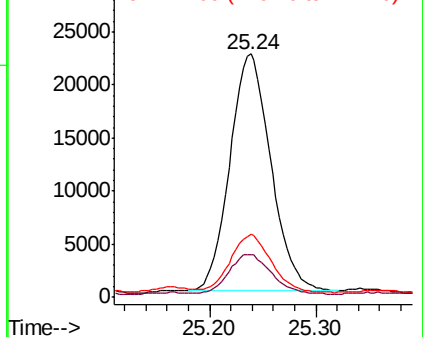
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.312 ng
 RT: 25.24 min Scan# 3127
 Delta R.T. -0.01 min
 Lab File: BN007057.D
 Acq: 10 Aug 2019 20:34

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 59818
 Ion Ratio Lower Upper
 276 100
 138 17.2 16.0 24.0
 277 24.6 19.9 29.9

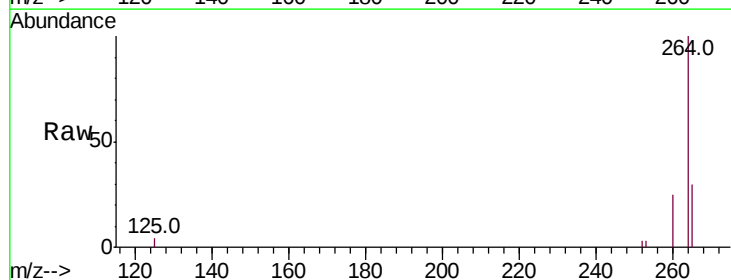


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

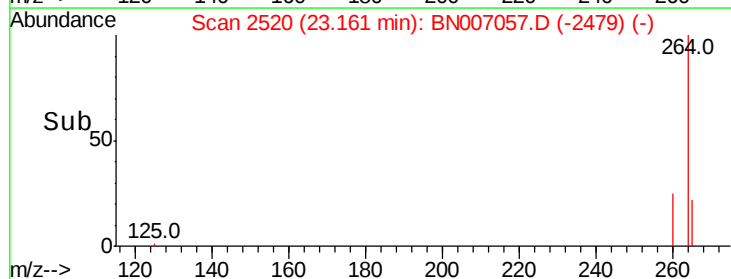
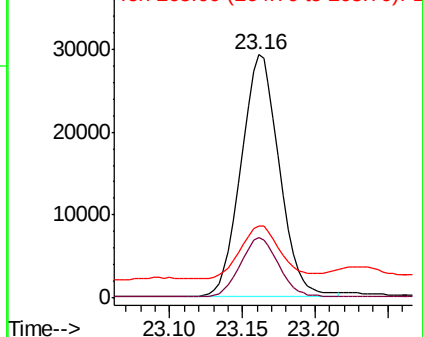


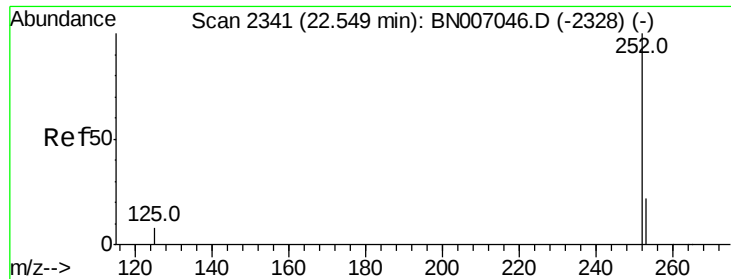
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2520
 Delta R.T. -0.01 min
 Lab File: BN007057.D
 Acq: 10 Aug 2019 20:34

Tgt Ion:264 Resp: 53270
 Ion Ratio Lower Upper
 264 100
 260 25.1 19.8 29.8
 265 29.9 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: 0.731 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

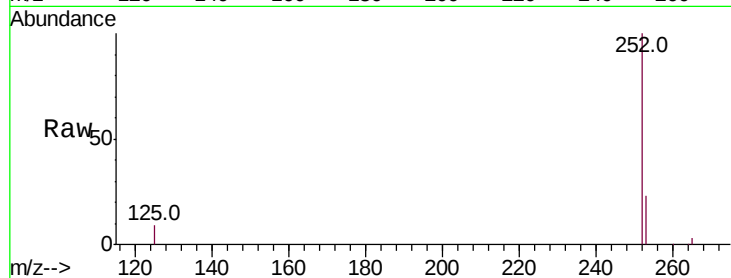
Tot Ion:252 Resp: 133481

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

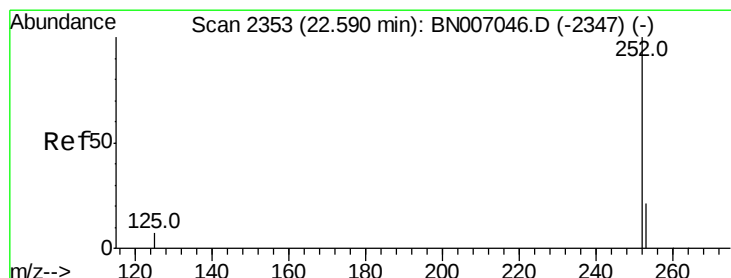
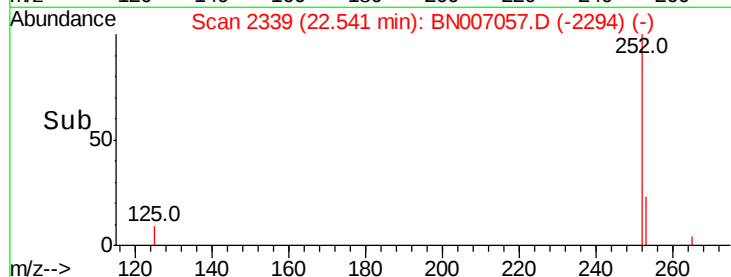
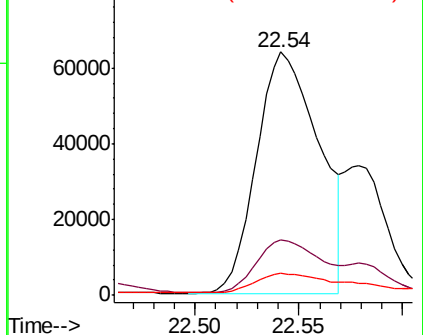
125 9.0 7.4 11.0



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: 0.740 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

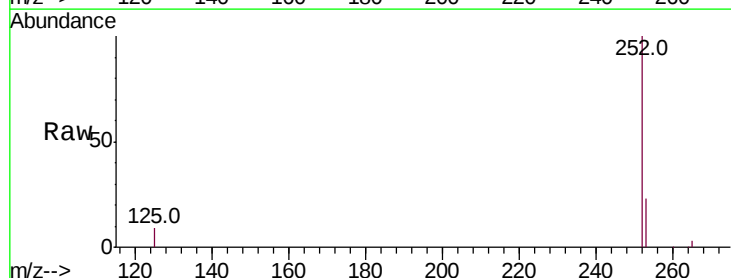
Tgt Ion:252 Resp: 133481

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

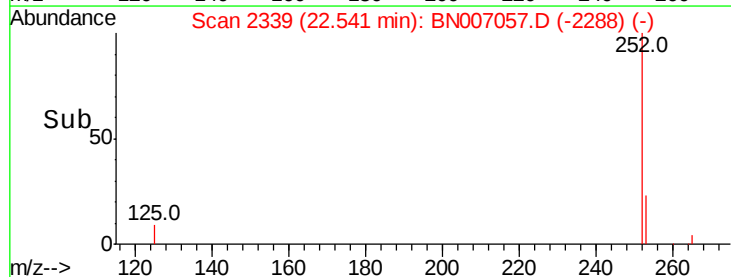
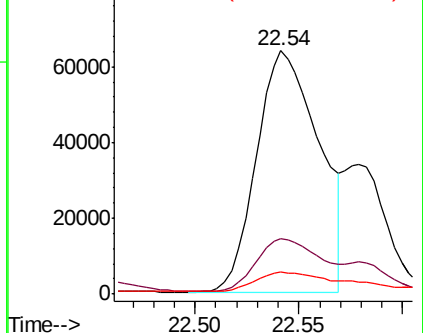
125 9.0 7.4 11.0

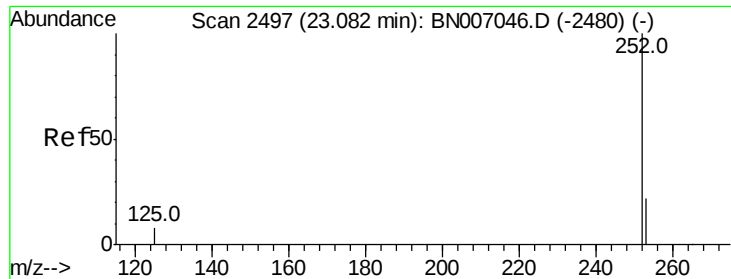


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.534 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :

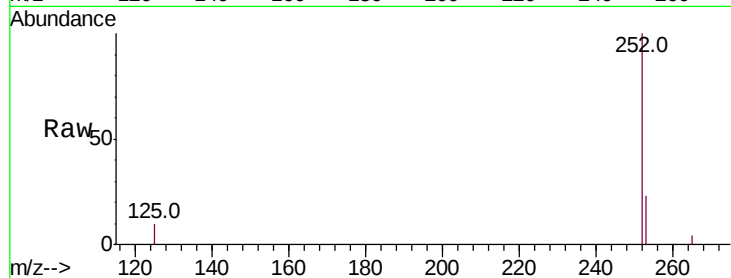
Tot Ion:252 Resp: 88354

Ion Ratio Lower Upper

252 100

253 23.3 18.5 27.7

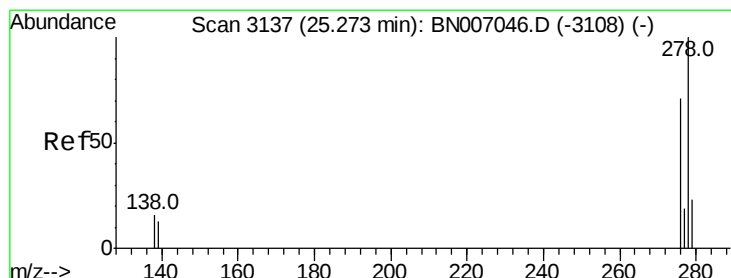
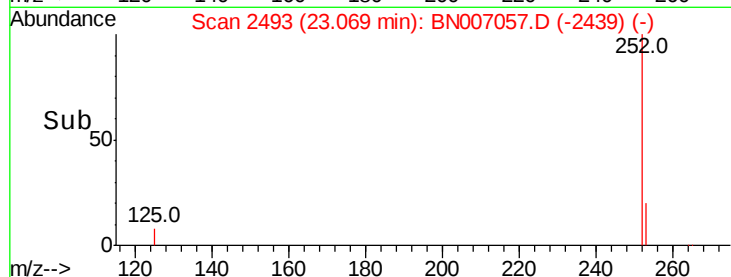
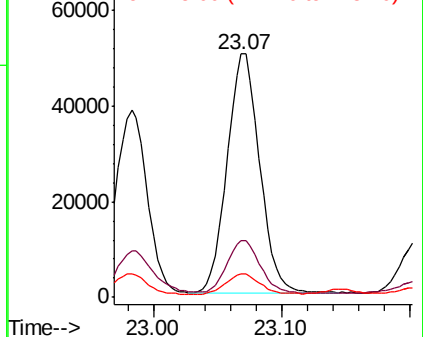
125 9.8 8.2 12.4



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



#36

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

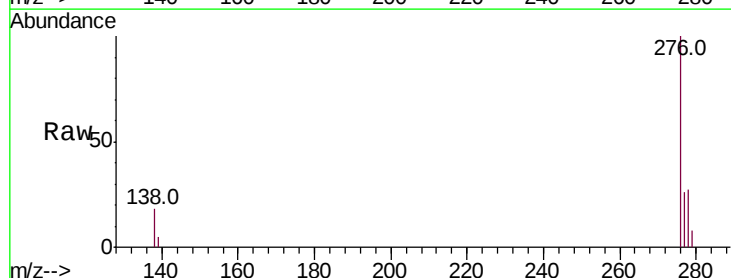
Tgt Ion:278 Resp: 15769

Ion Ratio Lower Upper

278 100

139 18.6 11.3 16.9#

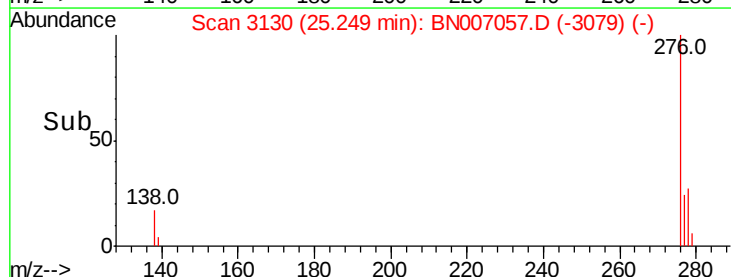
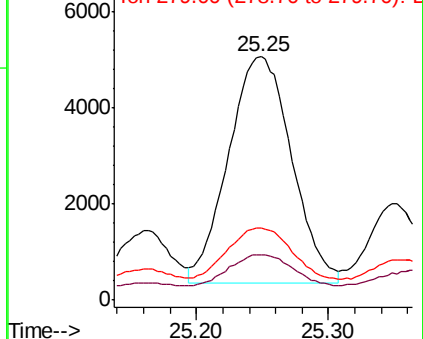
279 29.6 19.3 28.9#

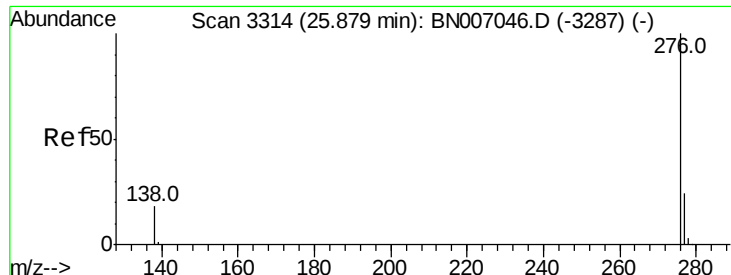


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(a,h,i)perylene

Concen: 0.367 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

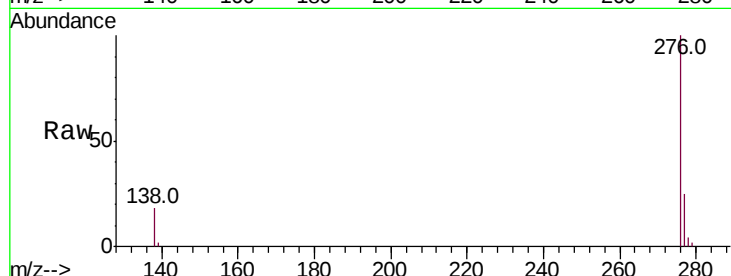
Lab File: BN007057.D

Acq: 10 Aug 2019 20:34

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 62337

Ion Ratio Lower Upper

276 100

277 25.2 19.8 29.8

138 18.3 14.6 22.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

