

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007099.D
 Acq On : 12 Aug 2019 15:53
 Operator : HP/JU
 Sample : K4240-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 04:15:22 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	7505	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28326	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	15927	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	39449	0.40	ng	0.00
26) Chrysene-d12	21.05	240	39508	0.40	ng	-0.01
32) Perylene-d12	23.16	264	42509	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6178	0.34	ng	0.00
4) Phenol-d6	6.61	99	8518	0.38	ng	0.00
7) Nitrobenzene-d5	8.56	82	6605	0.29	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	16672	0.32	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1384	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4701	0.20	ng	0.00
24) Fluoranthene-d10	18.87	212	43606	0.31	ng	0.00
28) Terphenyl-d14	19.49	244	32453	0.30	ng	-0.01

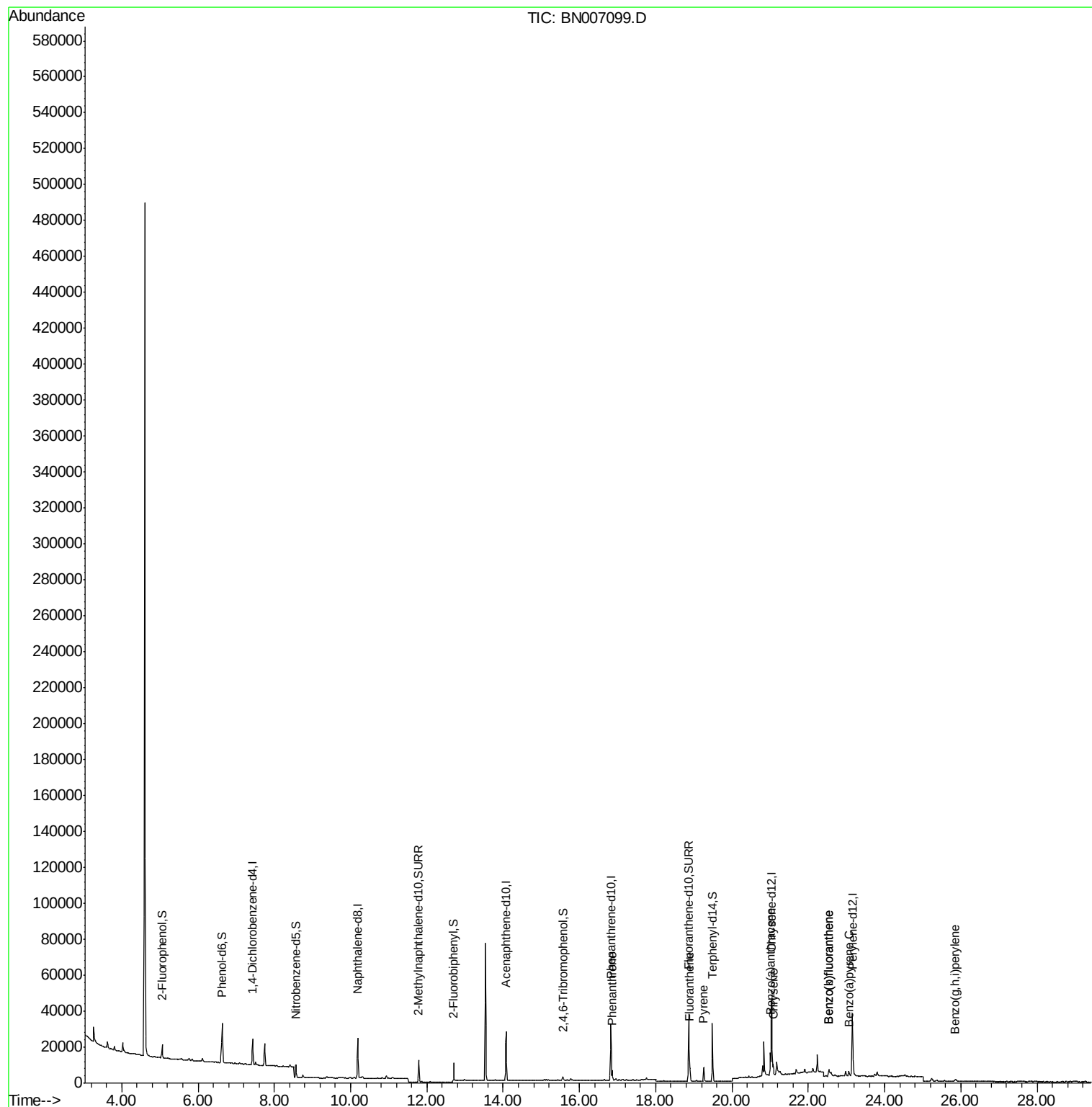
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Phenanthrene	16.87	178	5768	0.049	ng	98
25) Fluoranthene	18.90	202	7997	0.053	ng	97
27) Pyrene	19.26	202	7392	0.053	ng	96
29) Benzo(a)anthracene	21.02	228	4146	0.029	ng	# 89
30) Chrysene	21.08	228	5722	0.041	ng	# 92
33) Benzo(b)fluoranthene	22.54	252	6623	0.045	ng	# 74
34) Benzo(k)fluoranthene	22.54	252	6623	0.046	ng	# 74
35) Benzo(a)pyrene	23.07	252	3765	0.028	ng	# 64
37) Benzo(g,h,i)perylene	25.86	276	3006	0.022	ng	# 78

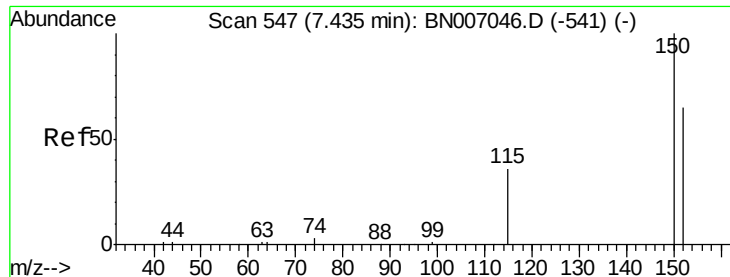
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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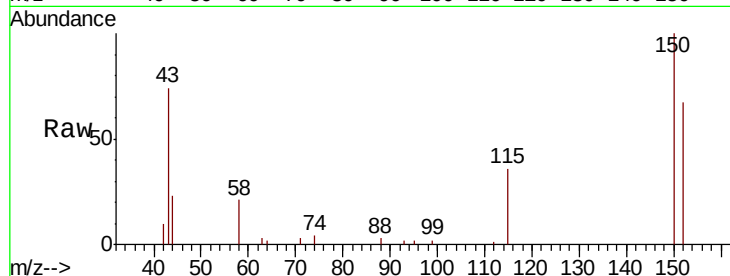


#1

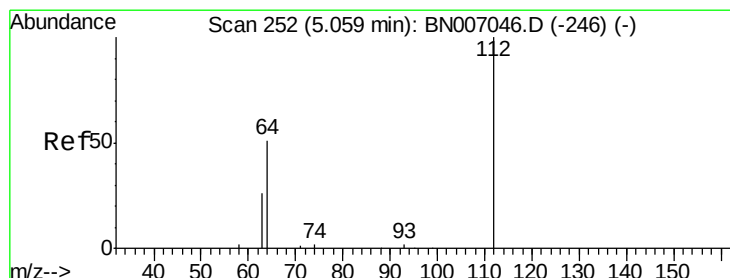
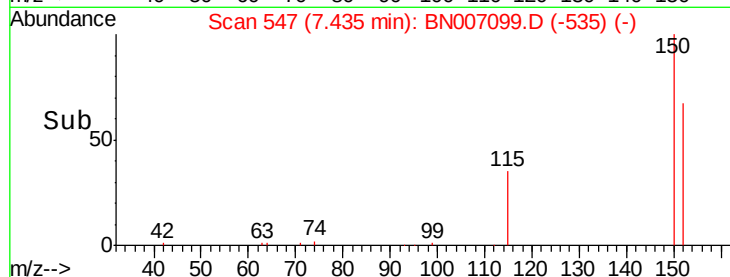
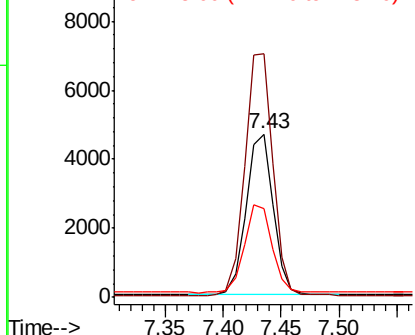
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7505
Ion Ratio Lower Upper
152 100
150 149.0 121.7 182.5
115 54.3 46.2 69.4



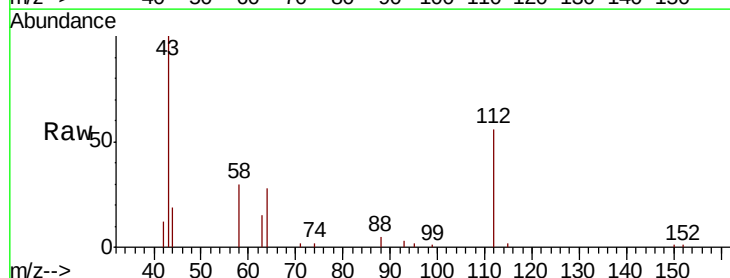
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



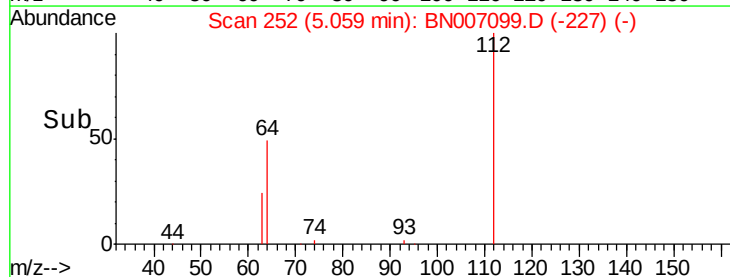
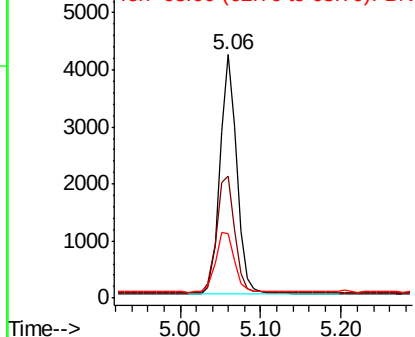
#3

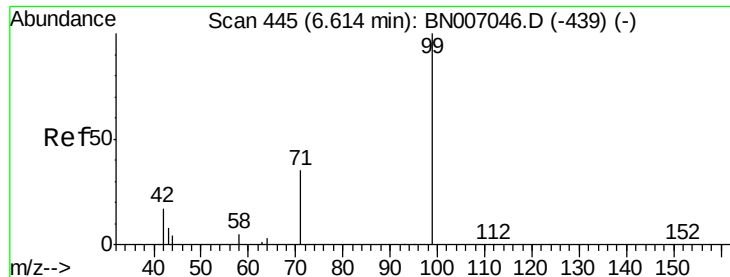
2-Fluorophenol
Concen: 0.343 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Tgt Ion:112 Resp: 6178
Ion Ratio Lower Upper
112 100
64 52.9 42.6 63.8
63 27.8 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: 0.381 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampled :

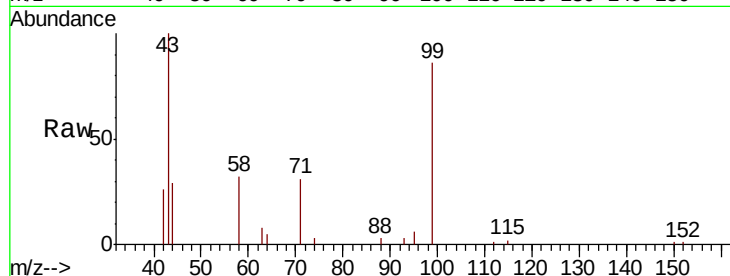
Tot Ion: 99 Resp: 8518

Ion Ratio Lower Upper

99 100

42 34.4 15.8 23.6#

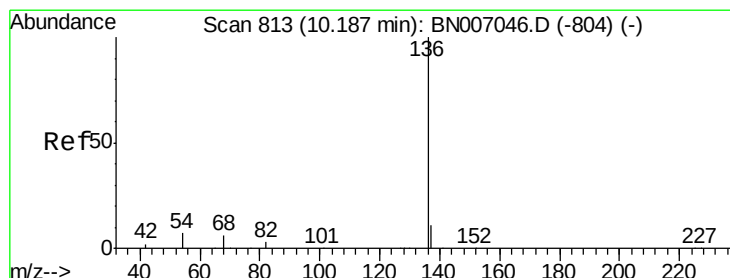
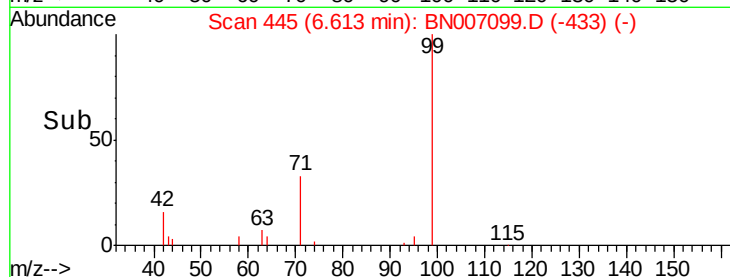
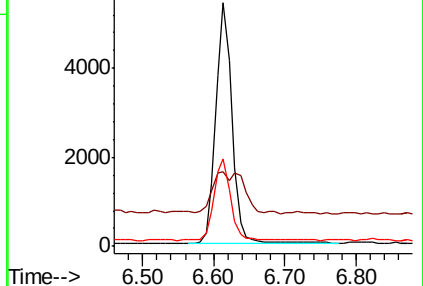
71 34.3 27.0 40.4



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: BN007099.D

Acq: 12 Aug 2019 15:53

Tgt Ion: 136 Resp: 28326

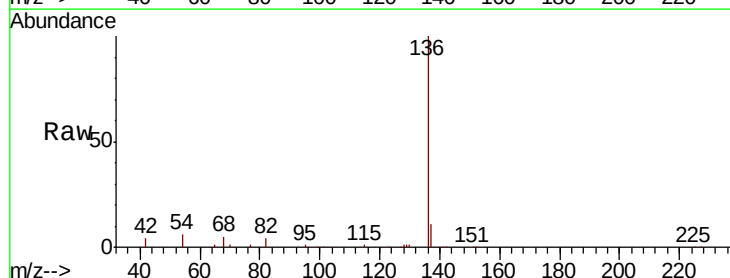
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.2 6.6 9.8#

68 5.4 6.0 9.0#

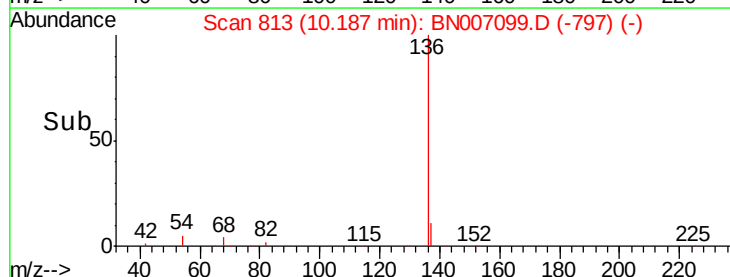
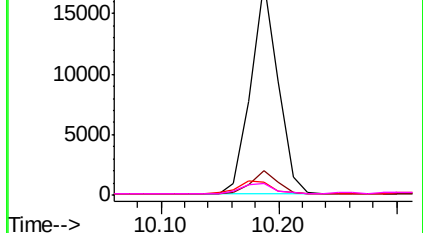


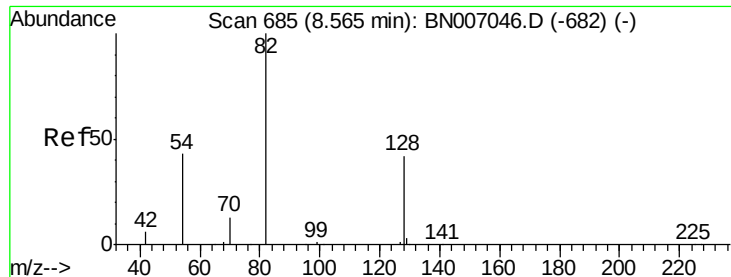
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

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: 0.289 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampleId :

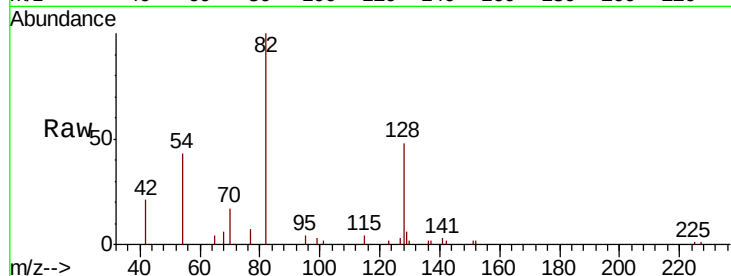
Tot Ion: 82 Resp: 6605

Ion Ratio Lower Upper

82 100

128 47.7 34.6 51.8

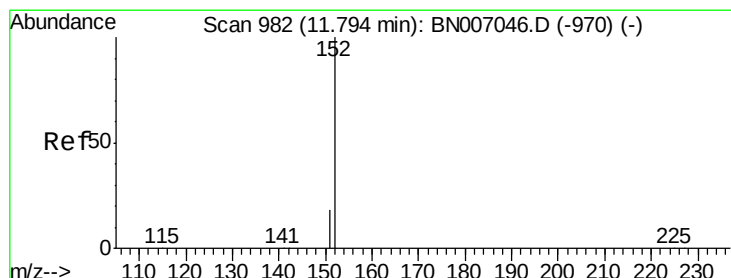
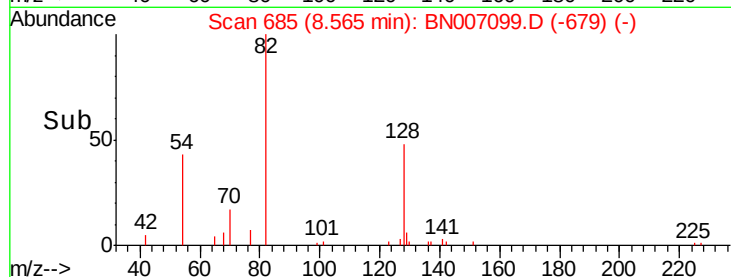
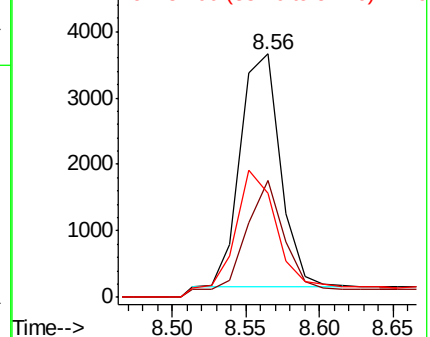
54 42.8 36.2 54.4



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: 0.316 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007099.D

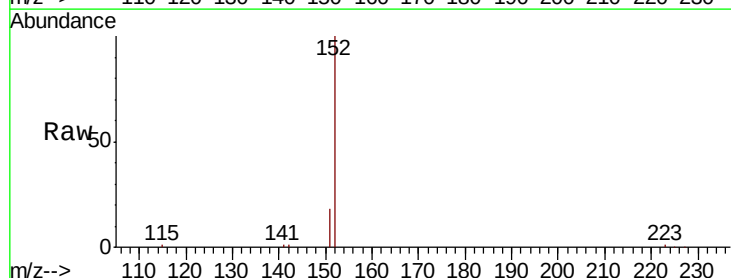
Acq: 12 Aug 2019 15:53

Tgt Ion: 152 Resp: 16672

Ion Ratio Lower Upper

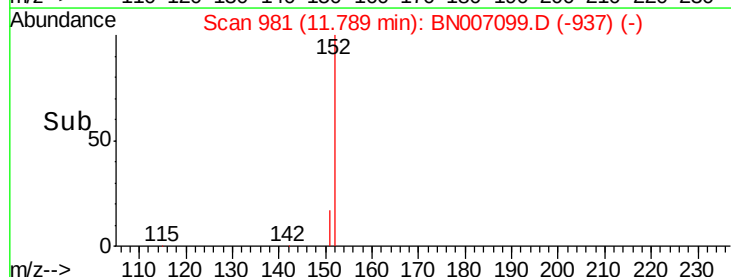
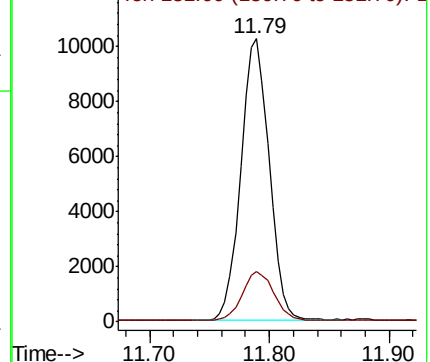
152 100

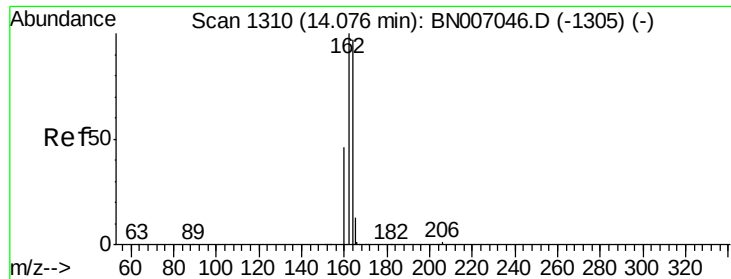
151 19.2 15.5 23.3



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: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampled :

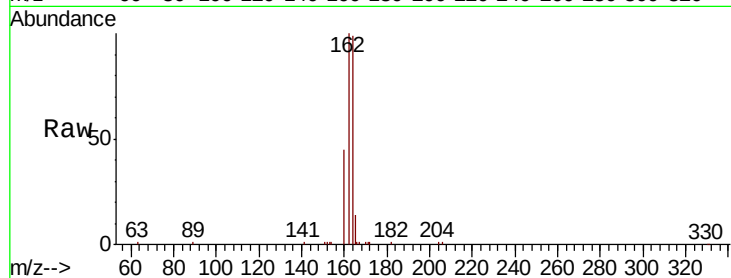
Tot Ion:164 Resp: 15927

Ion Ratio Lower Upper

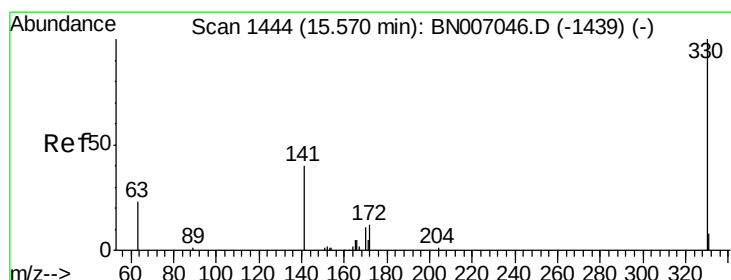
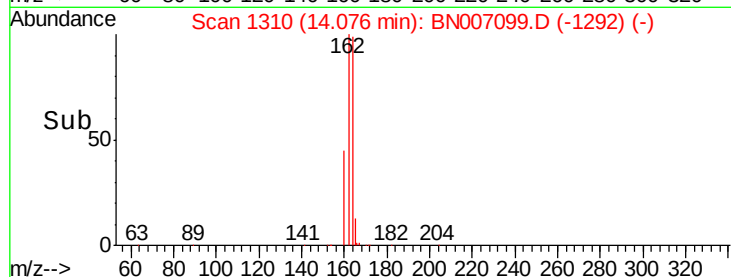
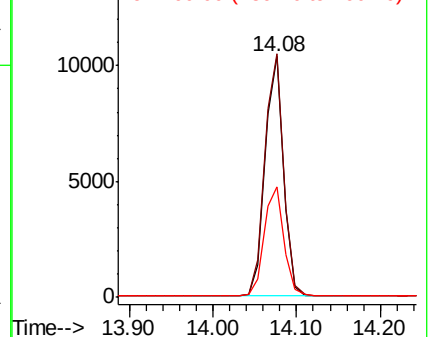
164 100

162 101.1 82.2 123.4

160 45.8 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: 0.161 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

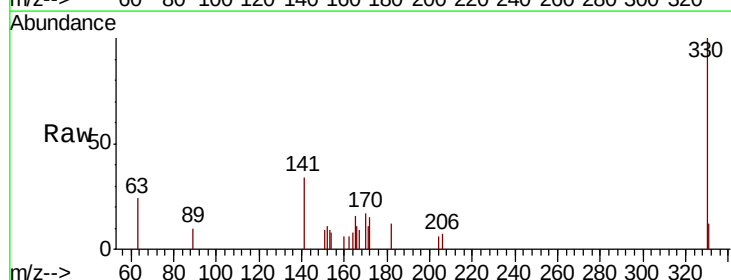
Tgt Ion:330 Resp: 1384

Ion Ratio Lower Upper

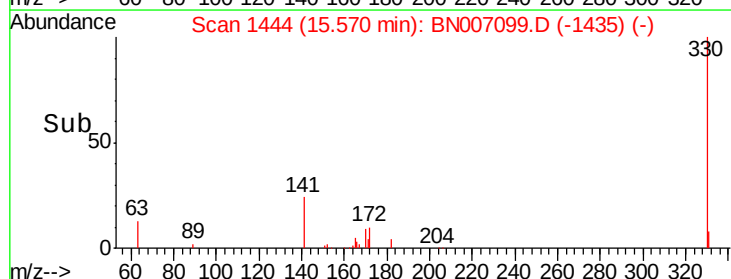
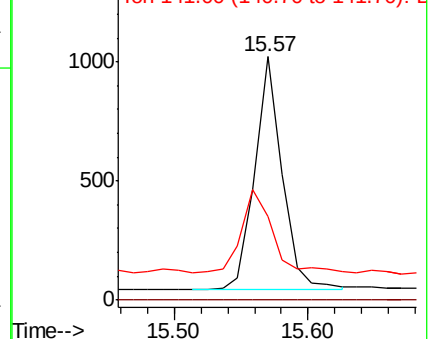
330 100

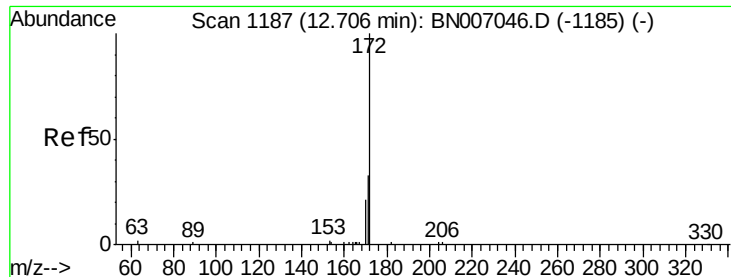
332 0.0 0.0 0.0

141 40.7 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

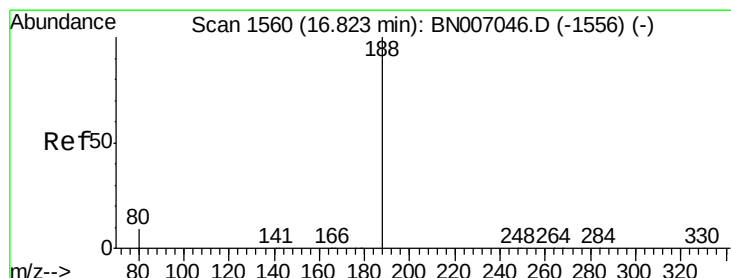
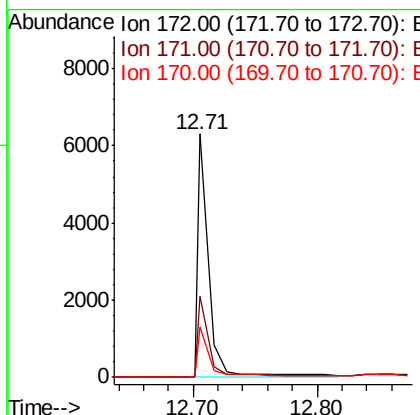
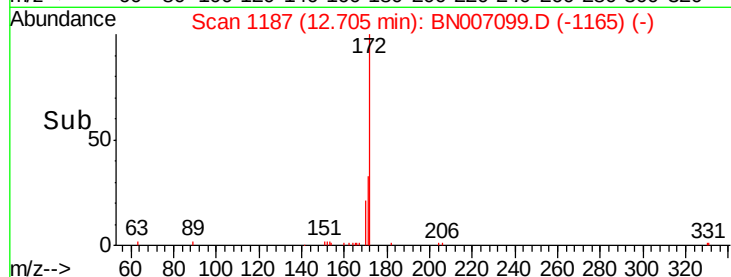
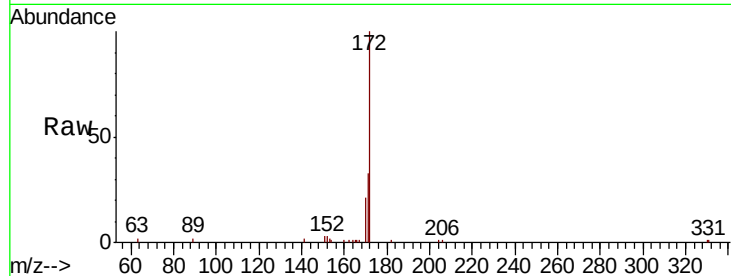




#14
2-Fluorobiphenyl
Concen: 0.203 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

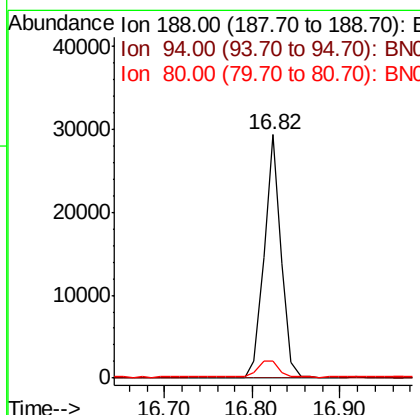
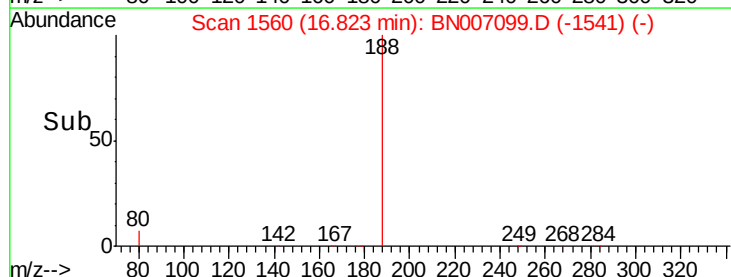
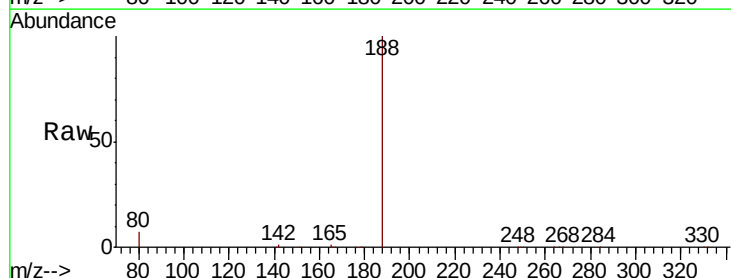
Instrument :
BNA_N
ClientSampleId :

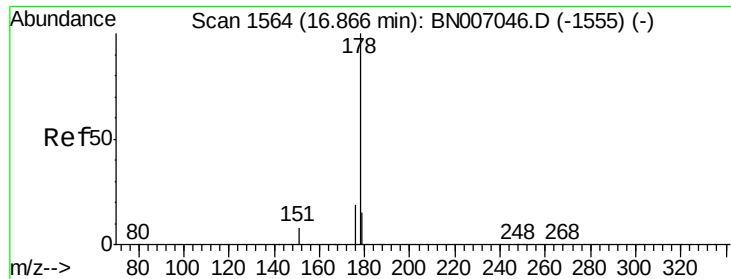
Tot Ion:172 Resp: 4701
Ion Ratio Lower Upper
172 100
171 33.1 26.3 39.5
170 20.8 17.0 25.4



#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Tgt Ion:188 Resp: 39449
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.2 7.8 11.6#





#22

Phenanthrene

Concen: 0.049 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

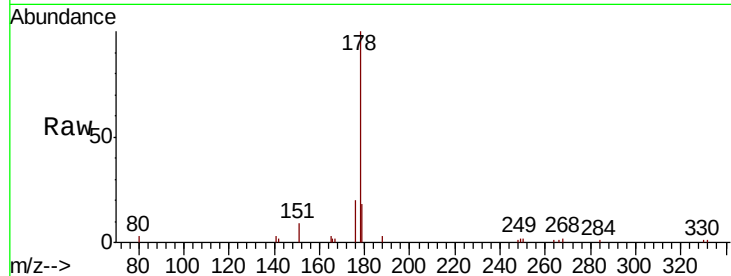
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 5768

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.2	22.8
179	17.0	12.3	18.5

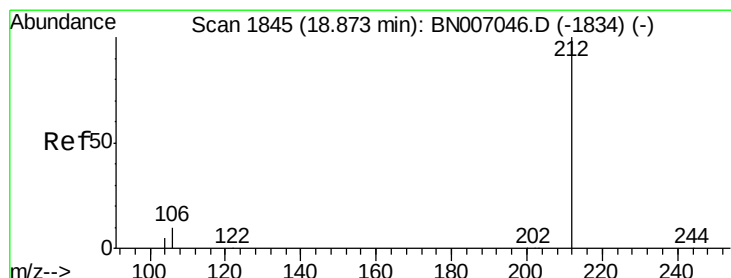
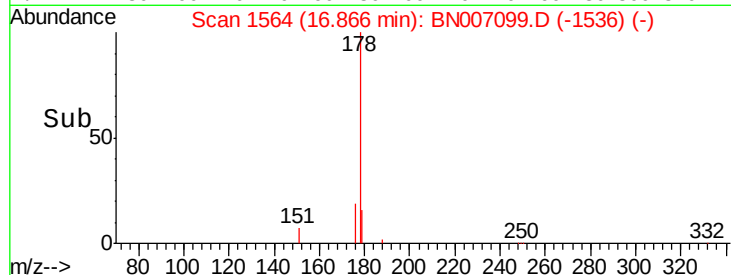
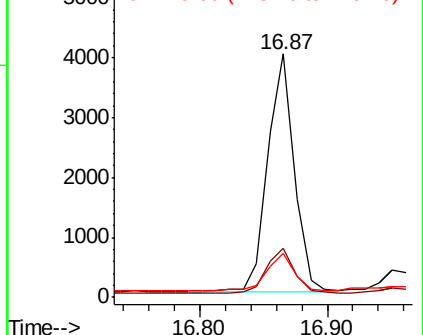


Abundance

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



#24

Fluoranthene-d10

Concen: 0.312 ng

RT: 18.87 min Scan# 1844

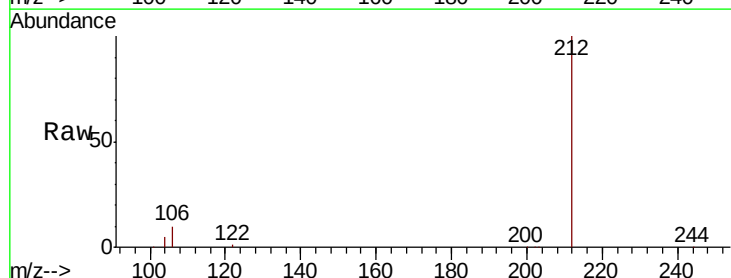
Delta R.T. -0.01 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Tgt Ion:212 Resp: 43606

Ion	Ratio	Lower	Upper
212	100		
106	10.1	8.2	12.2
104	5.5	4.5	6.7

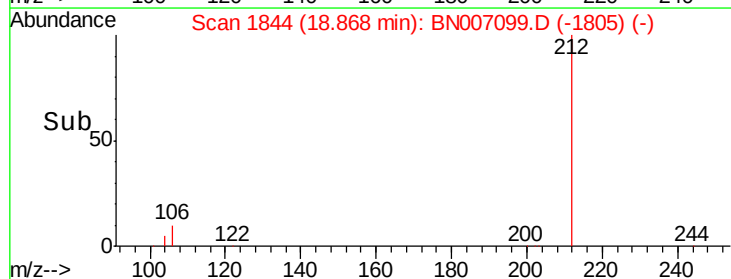
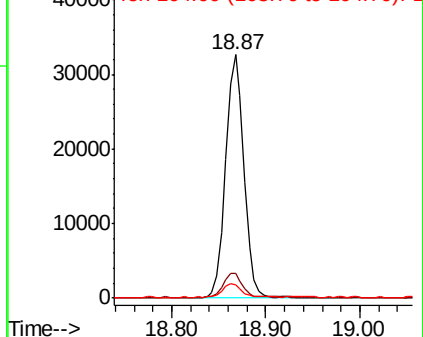


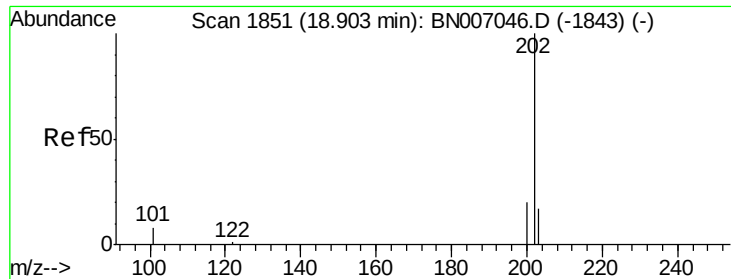
Abundance

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: 0.053 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampleId :

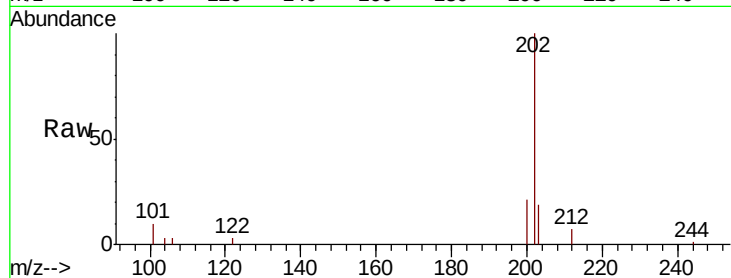
Tot Ion:202 Resp: 7997

Ion Ratio Lower Upper

202 100

101 9.5 7.0 10.4

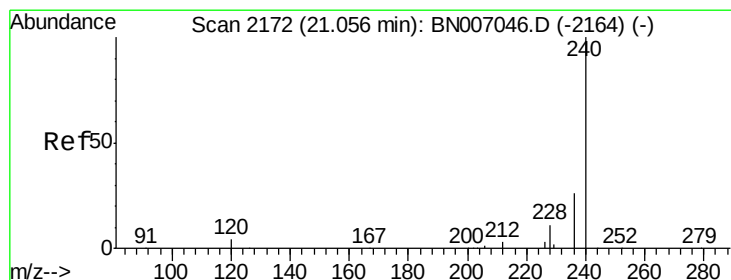
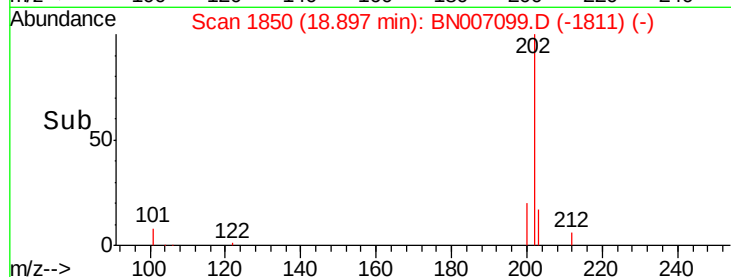
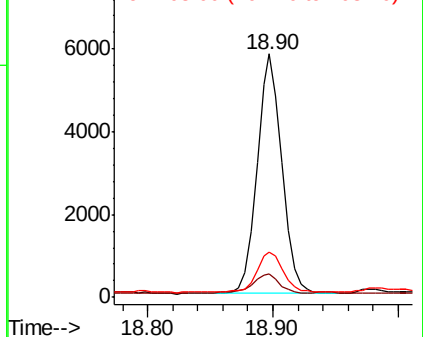
203 18.9 13.8 20.8



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: BN007099.D

Acq: 12 Aug 2019 15:53

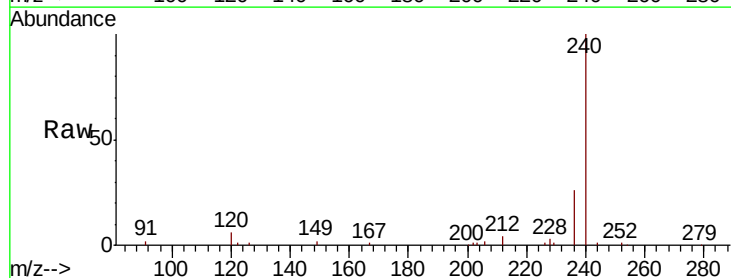
Tgt Ion:240 Resp: 39508

Ion Ratio Lower Upper

240 100

120 5.7 4.0 6.0

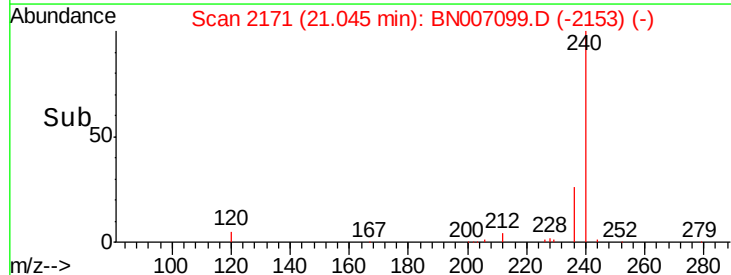
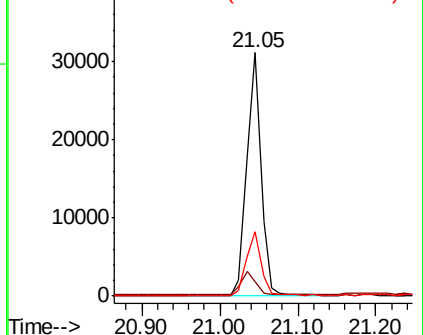
236 26.4 21.3 31.9

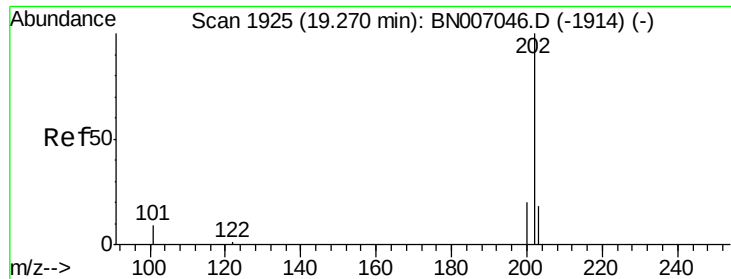


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

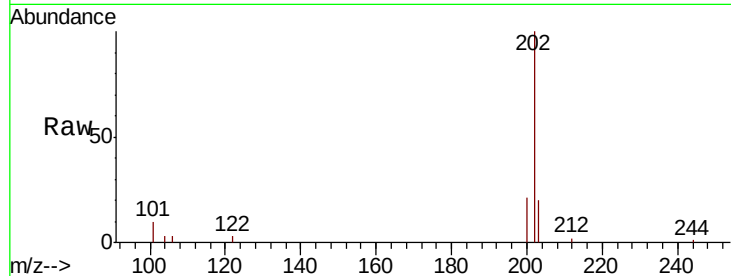




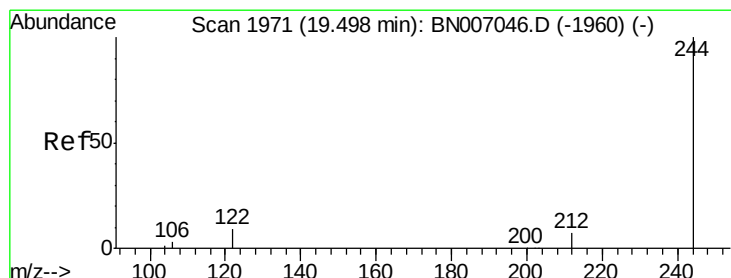
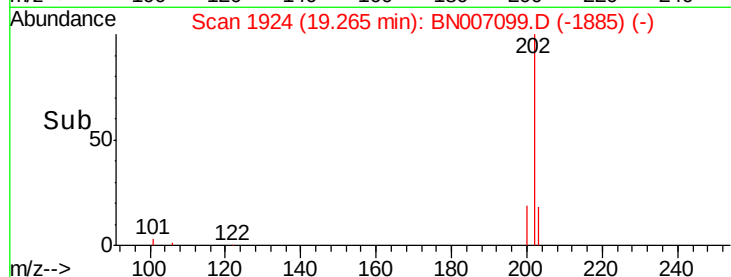
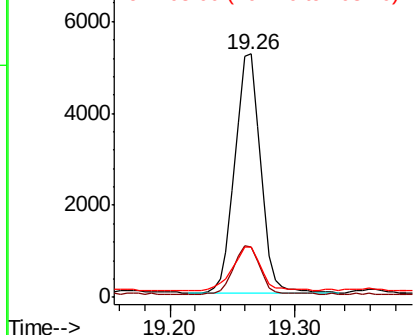
#27
Pvrene
Concen: 0.053 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 7392
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 21.0 14.0 21.0

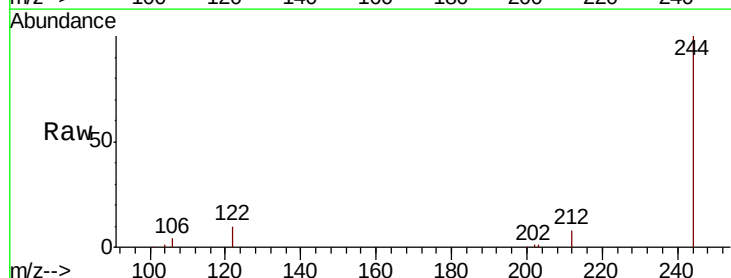


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

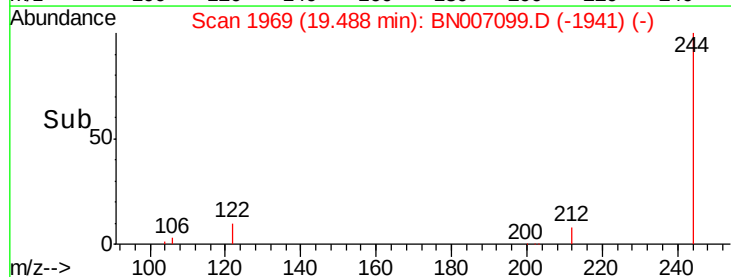
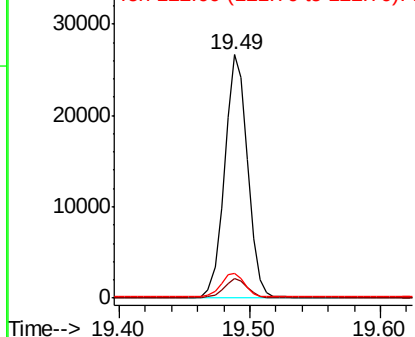


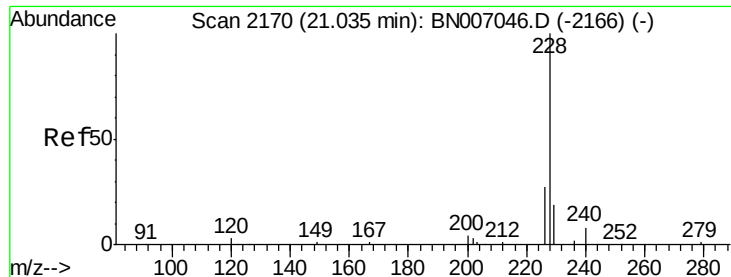
#28
Terphenyl-d14
Concen: 0.301 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Tgt Ion:244 Resp: 32453
Ion Ratio Lower Upper
244 100
212 7.9 6.2 9.2
122 10.3 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: 0.029 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampleId :

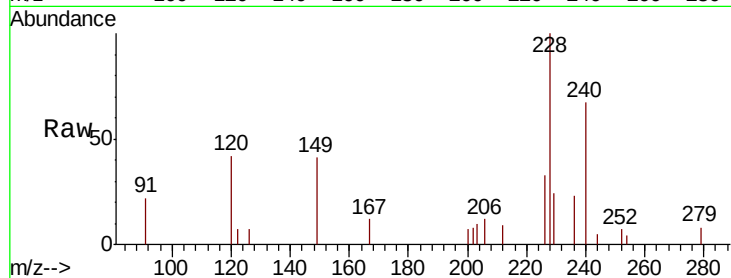
Tot Ion:228 Resp: 4146

Ion Ratio Lower Upper

228 100

226 33.2 21.8 32.6#

229 24.3 15.6 23.4#

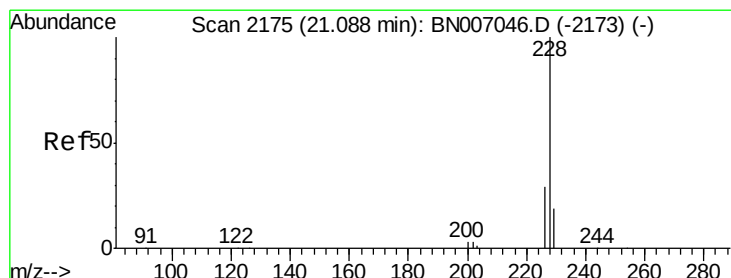
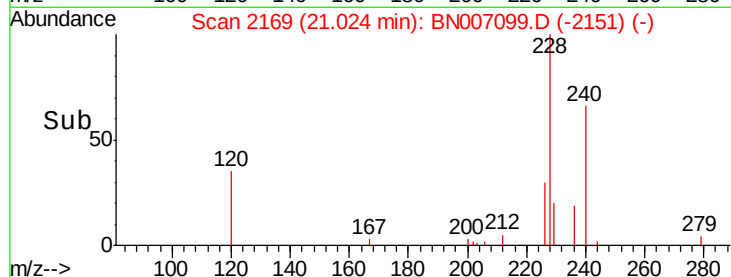
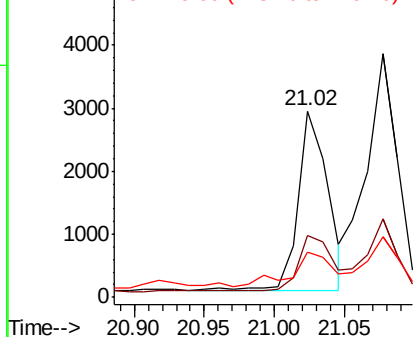


Abundance

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: 0.041 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

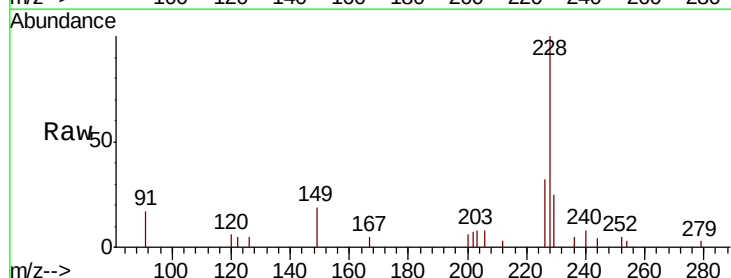
Tgt Ion:228 Resp: 5722

Ion Ratio Lower Upper

228 100

226 32.3 23.8 35.6

229 25.0 15.7 23.5#

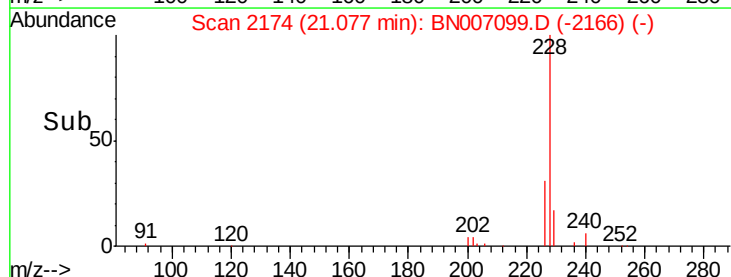
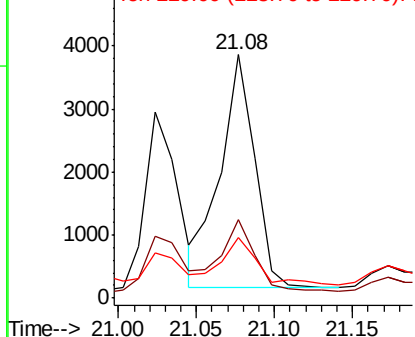


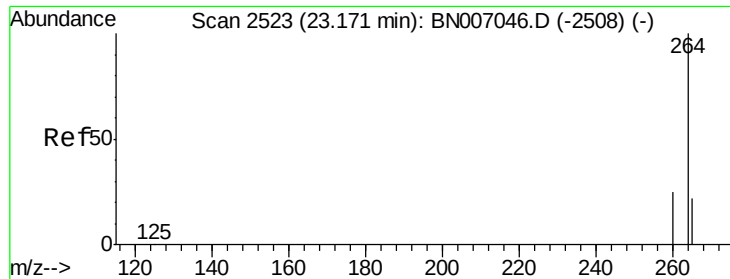
Abundance

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

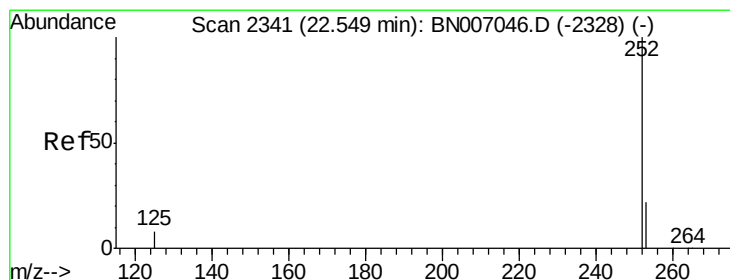
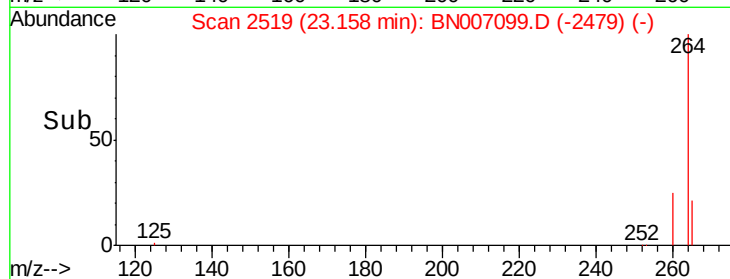
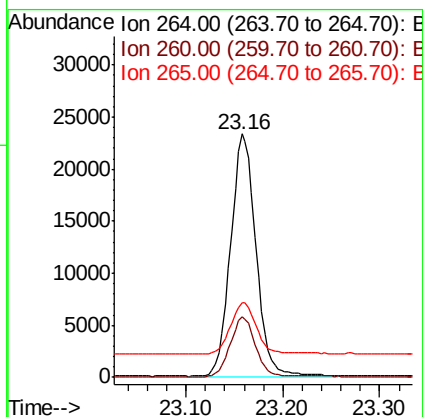
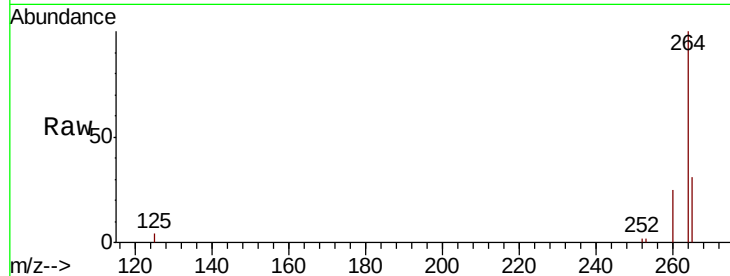




#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

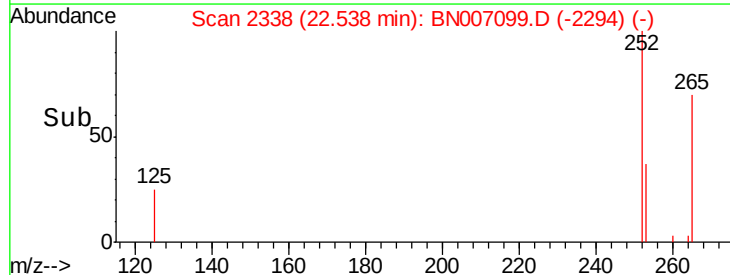
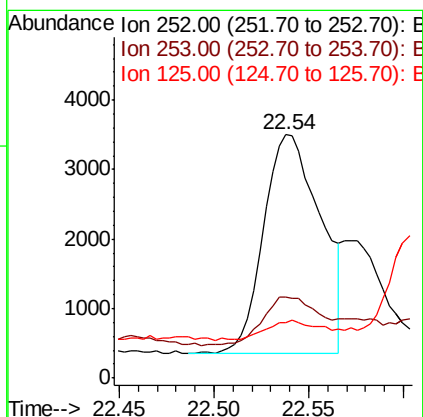
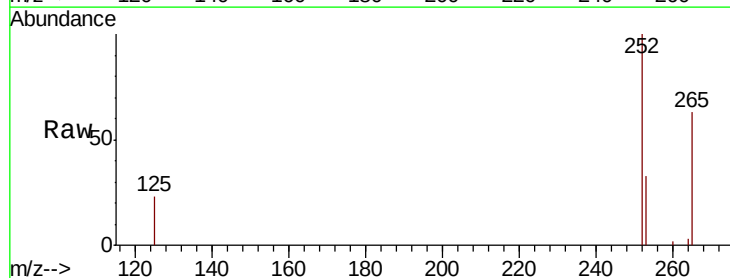
Instrument :
BNA_N
ClientSampleId :

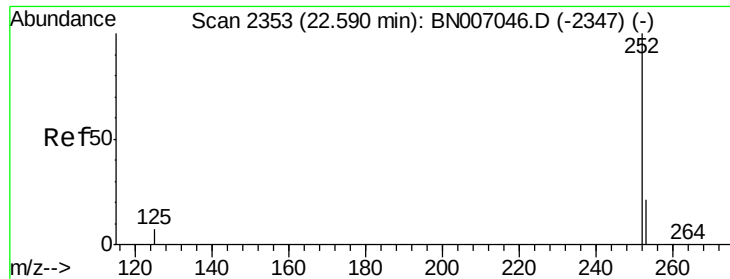
Tot Ion:264 Resp: 42509
Ion Ratio Lower Upper
264 100
260 24.8 19.8 29.8
265 30.6 26.2 39.4



#33
Benzo(b)fluoranthene
Concen: 0.045 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Tgt Ion:252 Resp: 6623
Ion Ratio Lower Upper
252 100
253 33.0 18.2 27.2#
125 22.8 7.4 11.0#

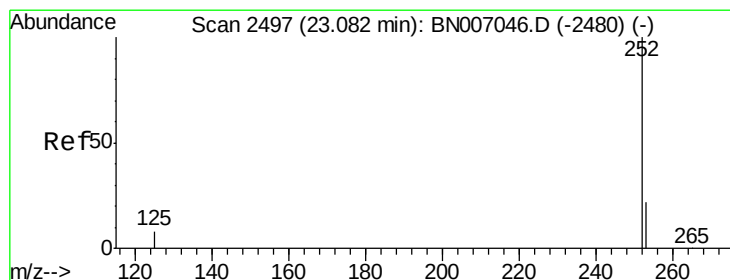
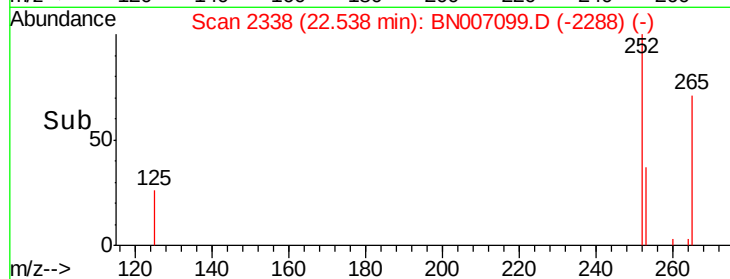
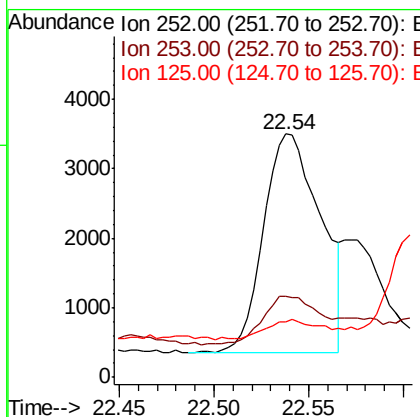
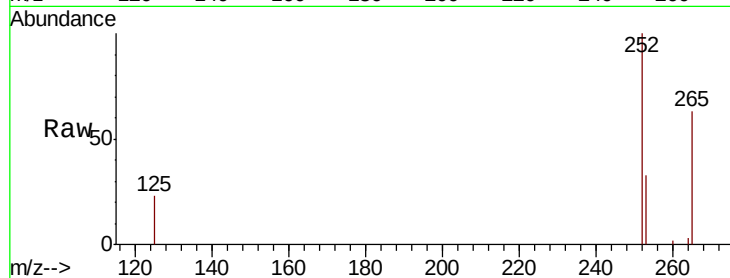




#34
Benzo(k)fluoranthene
Concen: 0.046 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

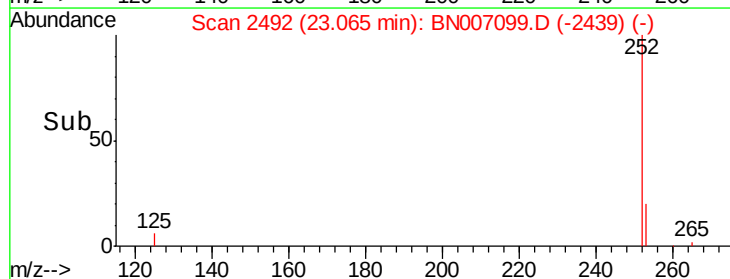
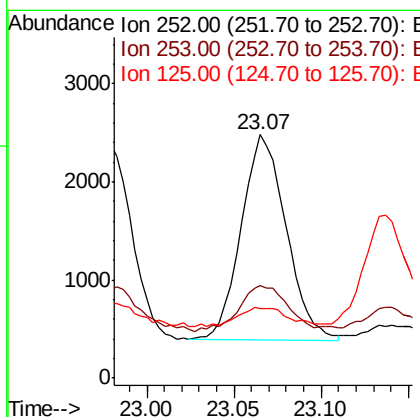
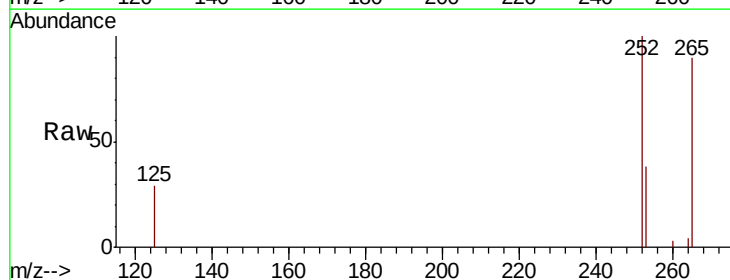
Instrument :
BNA_N
ClientSampleId :

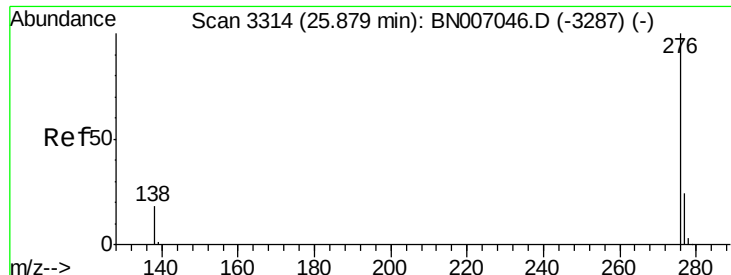
Tot Ion:252 Resp: 6623
Ion Ratio Lower Upper
252 100
253 33.0 18.1 27.1#
125 22.8 7.4 11.0#



#35
Benzo(a)pyrene
Concen: 0.028 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007099.D
Acq: 12 Aug 2019 15:53

Tgt Ion:252 Resp: 3765
Ion Ratio Lower Upper
252 100
253 38.0 18.5 27.7#
125 28.7 8.2 12.4#





#37

Benzo(a,h,i)perylene

Concen: 0.022 ng

RT: 25.86 min Scan# 3309

Delta R.T. -0.02 min

Lab File: BN007099.D

Acq: 12 Aug 2019 15:53

Instrument :

BNA_N

ClientSampleId :

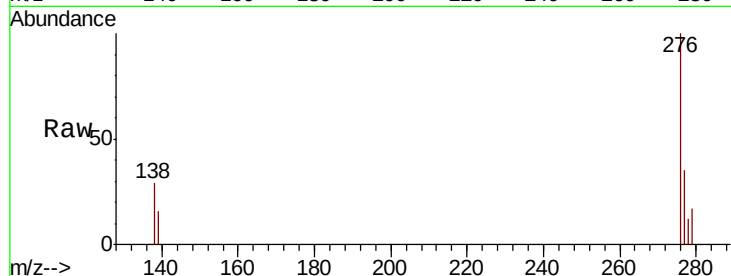
Tot Ion: 276 Resp: 3006

Ion Ratio Lower Upper

276 100

277 35.2 19.8 29.8#

138 28.7 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

