

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050318\
 Data File : BF105087.D
 Acq On : 3 May 2018 21:52
 Operator : JU/SJ
 Sample : J2615-02 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 04 02:00:00 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 02 17:25:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	107380	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	442780	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	191679	20.00	ng	-0.01
63) Phenanthrene-d10	11.31	188	290814	20.00	ng	-0.01
75) Chrysene-d12	14.00	240	197599	20.00	ng	-0.04
86) Perylene-d12	15.55	264	162472	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	134456	19.15	ng	0.00
7) Phenol-d6	6.44	99	171017	19.82	ng	0.00
23) Nitrobenzene-d5	7.35	82	104122	15.36	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	37420	18.82	ng	-0.02
44) 2-Fluorobiphenyl	9.14	172	204145	16.82	ng	-0.02
78) Terphenyl-d14	12.90	244	135543	15.64	ng	-0.02

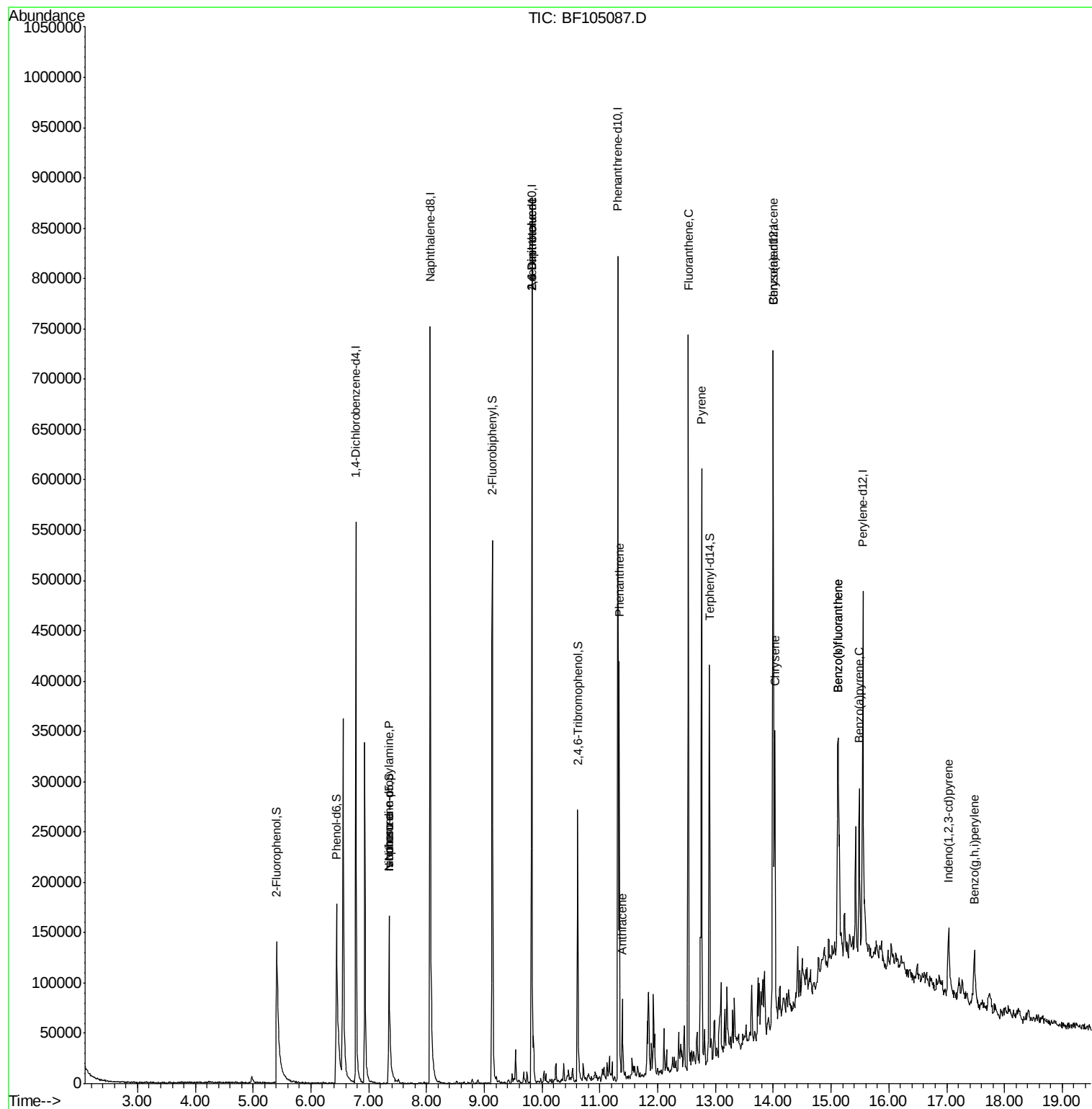
Target Compounds				Qvalue		
9) Benzaldehyde	6.56	77	3101	Below Cal		87
19) n-Nitroso-di-n-propylamine	7.35	70	12461	2.21 ng	#	76
25) Isophorone	7.35	82	104122	7.26 ng	#	64
50) 2,6-Dinitrotoluene	9.82	165	24928	8.91 ng	#	26
56) 2,4-Dinitrotoluene	9.82	165	24928	6.79 ng	#	24
70) Phenanthrene	11.33	178	153334	9.47 ng		98
71) Anthracene	11.39	178	43000	2.61 ng		98
74) Fluoranthene	12.53	202	272898	16.13 ng		98
76) Benzidine	12.89	184	1788	Below Cal	#	64
77) Pyrene	12.76	202	242795	16.58 ng		98
80) Benzo(a)anthracene	13.99	228	119078	10.09 ng		97
82) Chrysene	14.03	228	116169	9.58 ng		97
85) Indeno(1,2,3-cd)pyrene	17.03	276	42596	4.14 ng		93
87) Benzo(b)fluoranthene	15.12	252	167555	16.33 ng		96
88) Benzo(k)fluoranthene	15.12	252	167555	17.30 ng		98
89) Benzo(a)pyrene	15.49	252	82498	8.99 ng		96
91) Benzo(a,h,i)perylene	17.48	276	44654	6.11 ng		95

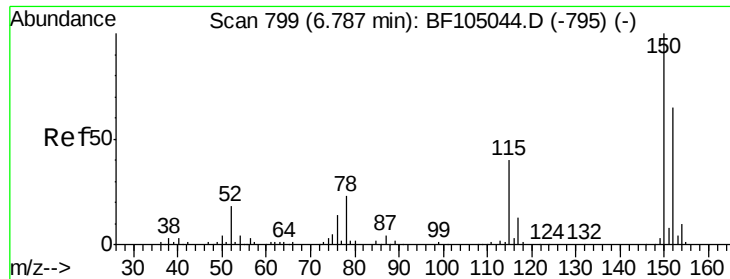
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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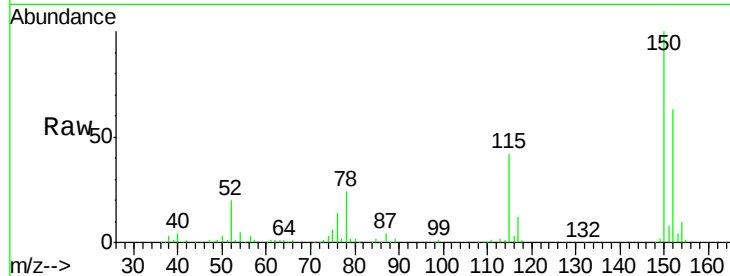


#1

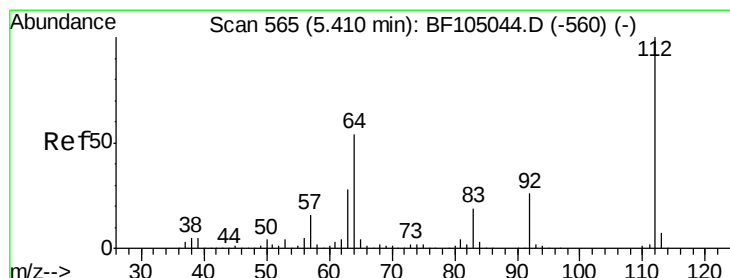
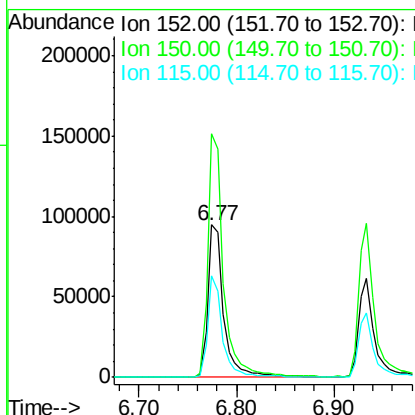
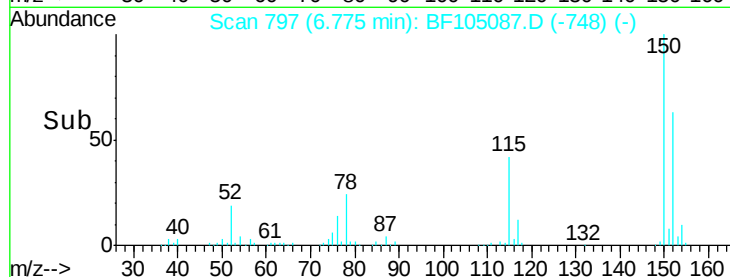
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 107380
Ion Ratio Lower Upper
152 100
150 159.5 124.6 186.8
115 66.4 50.1 75.1



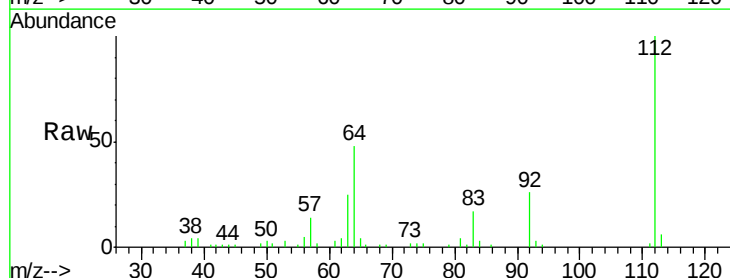
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



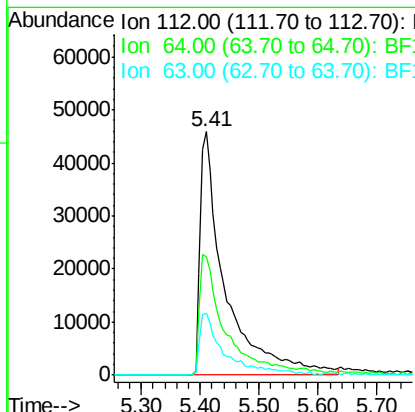
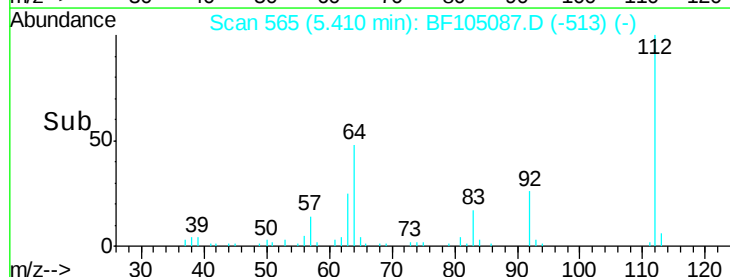
#5

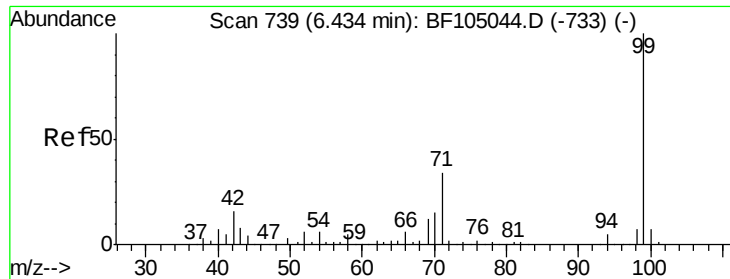
2-Fluorophenol
Concen: 19.15 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion:112 Resp: 134456
Ion Ratio Lower Upper
112 100
64 48.5 47.9 71.9
63 25.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 19.82 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Instrument :

BNA_F

ClientSampleId :

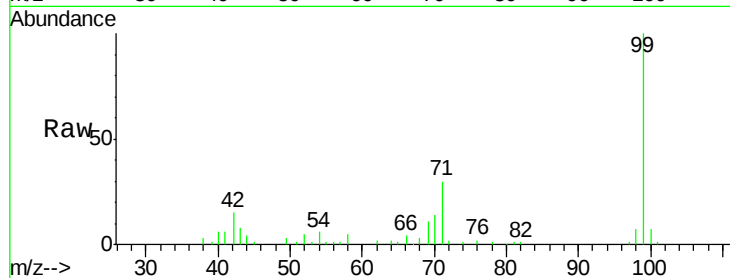
Tot Ion: 99 Resp: 171017

Ion Ratio Lower Upper

99 100

42 14.8 14.5 21.7

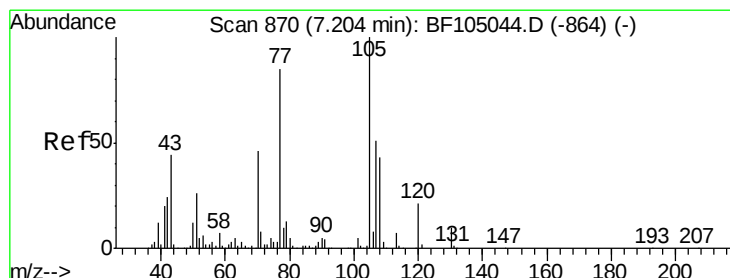
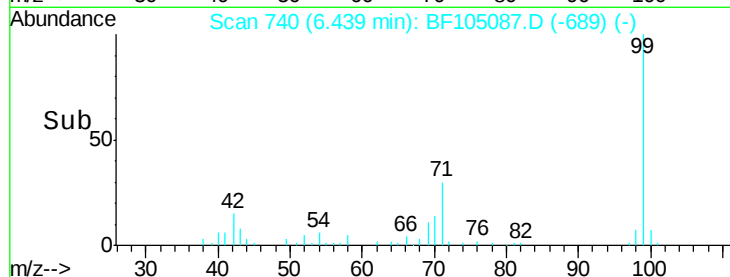
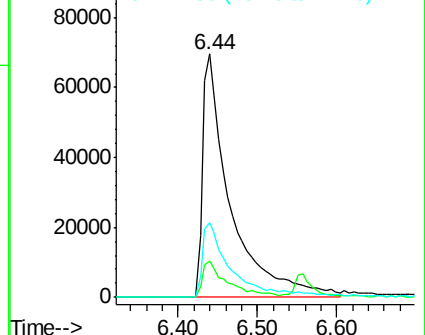
71 30.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.21 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.14 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Tgt Ion: 70 Resp: 12461

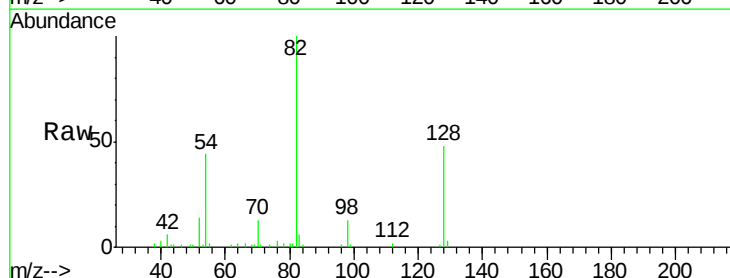
Ion Ratio Lower Upper

70 100

42 46.5 47.5 71.3#

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

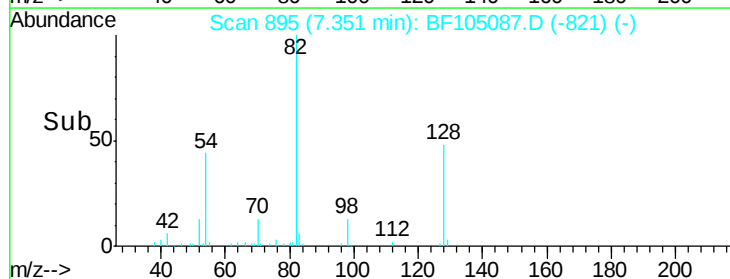
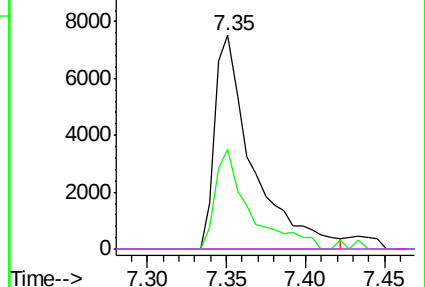


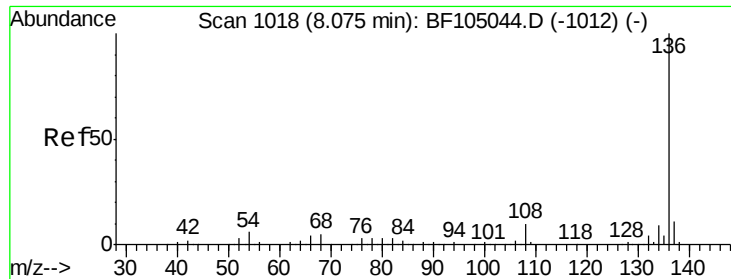
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

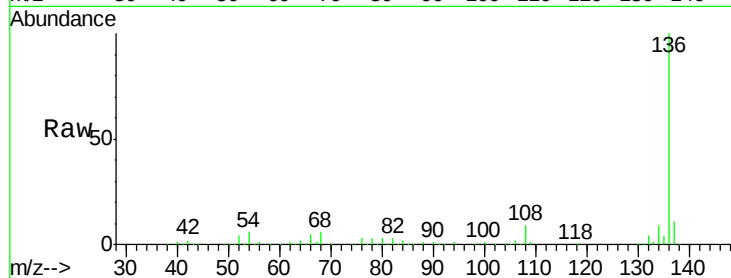




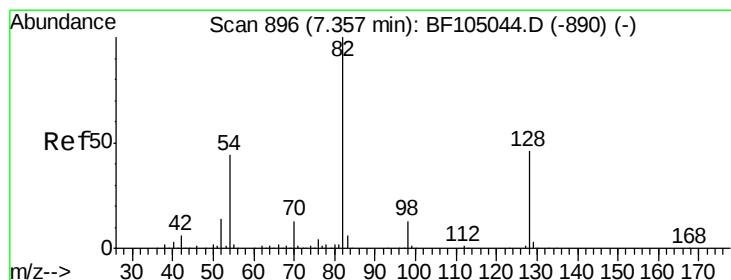
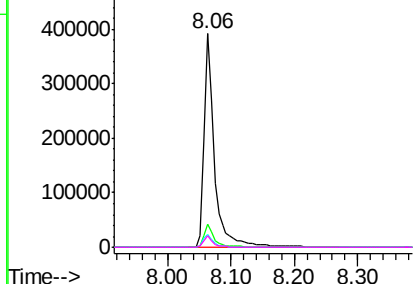
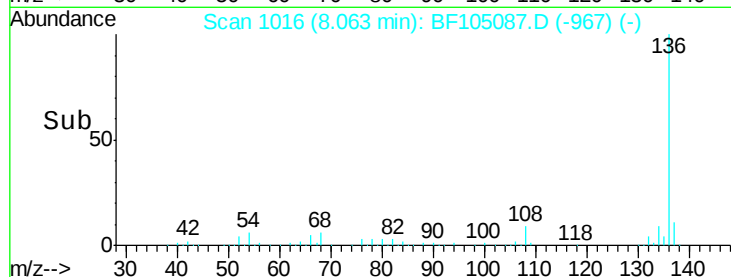
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	442780
Ion	Ratio	Lower Upper
136	100	
137	10.9	8.9 13.3
54	6.1	6.6 9.8#
68	5.5	5.0 7.4

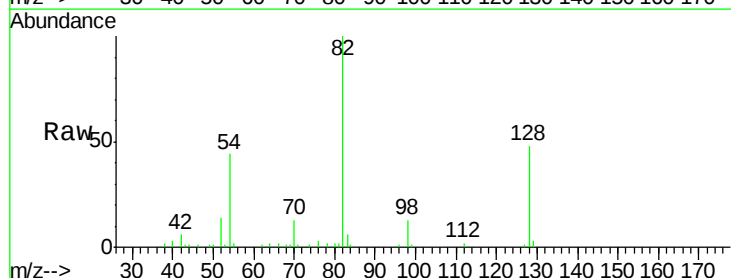


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

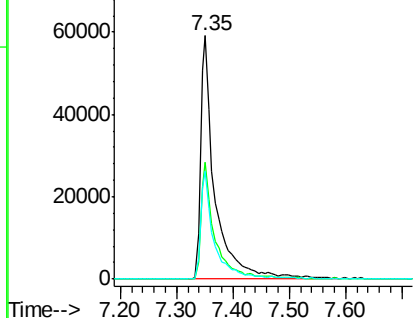
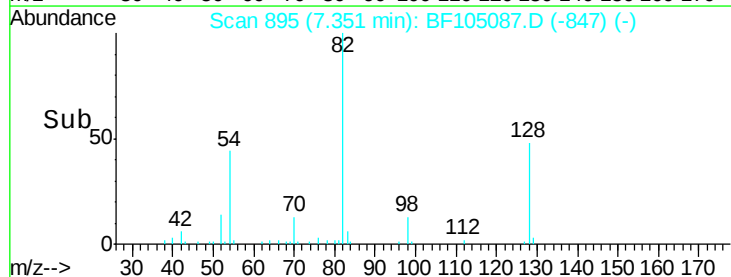


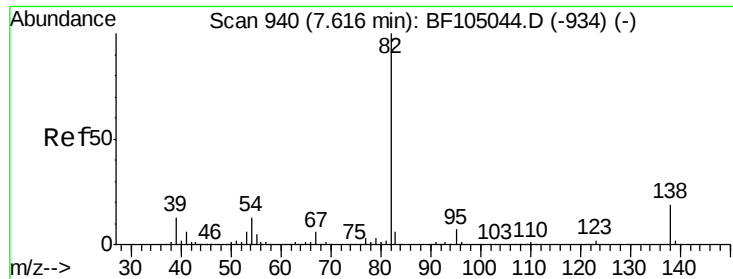
#23
Nitrobenzene-d5
Concen: 15.36 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion: 82	Resp:	104122
Ion	Ratio	Lower Upper
82	100	
128	48.1	36.1 54.1
54	44.3	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.26 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.27 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Instrument :

BNA_F

ClientSampleId :

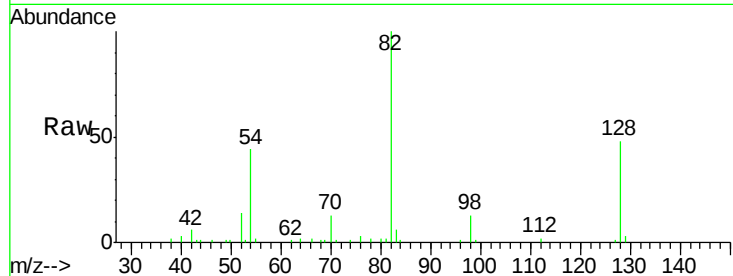
Tot Ion: 82 Resp: 104122

Ion Ratio Lower Upper

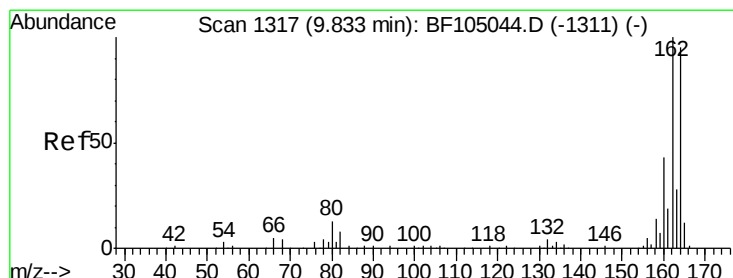
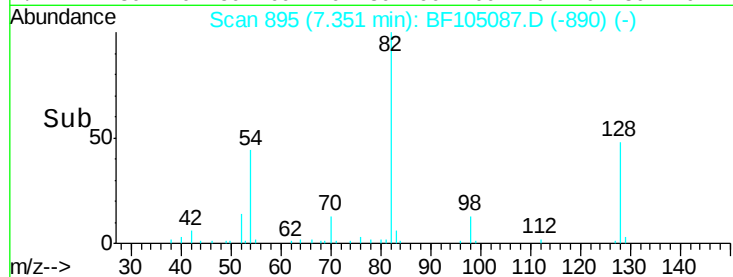
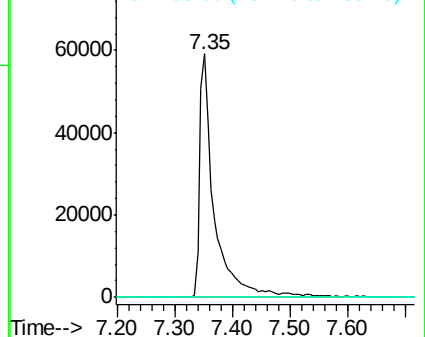
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

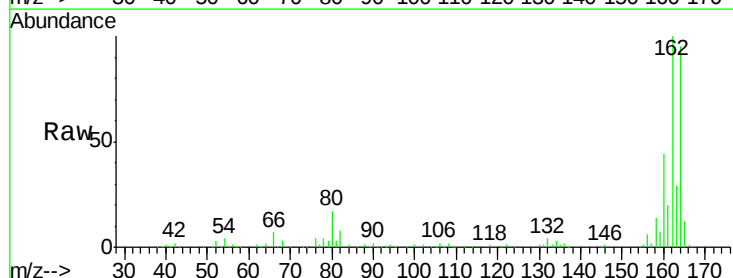
Tgt Ion: 164 Resp: 191679

Ion Ratio Lower Upper

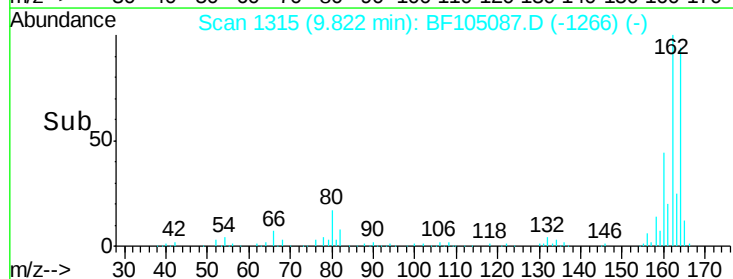
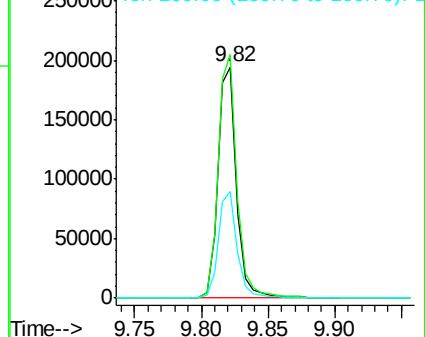
164 100

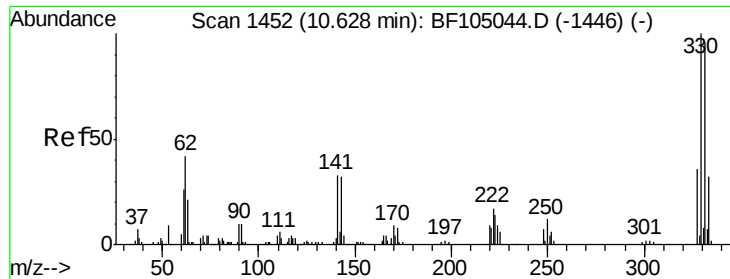
162 105.3 86.1 129.1

160 46.0 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

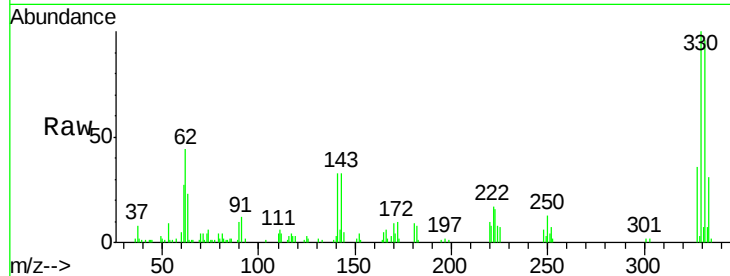




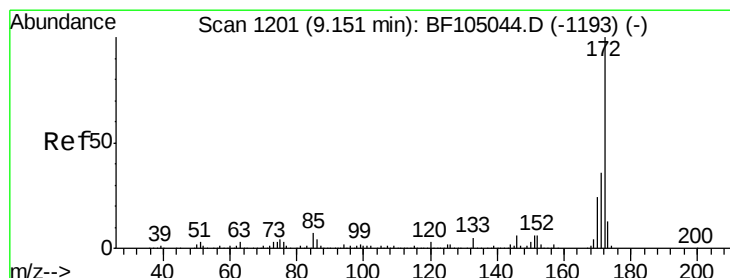
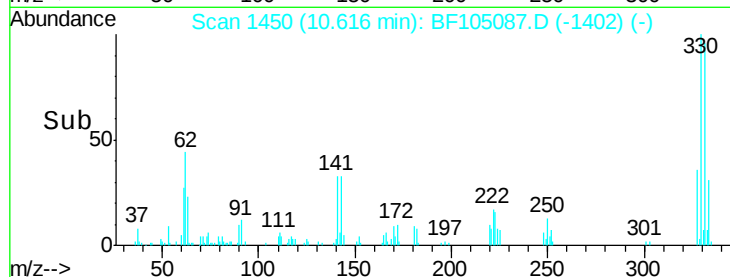
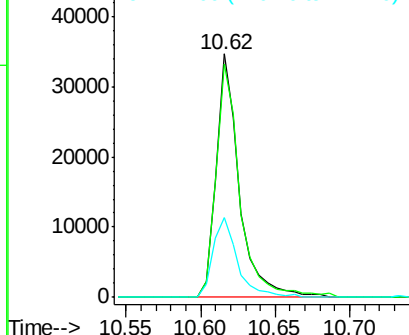
#41
 2,4,6-Tribromophenol
 Concen: 18.82 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.02 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 37420
 Ion Ratio Lower Upper
 330 100
 332 99.8 77.0 115.6
 141 35.0 29.9 44.9

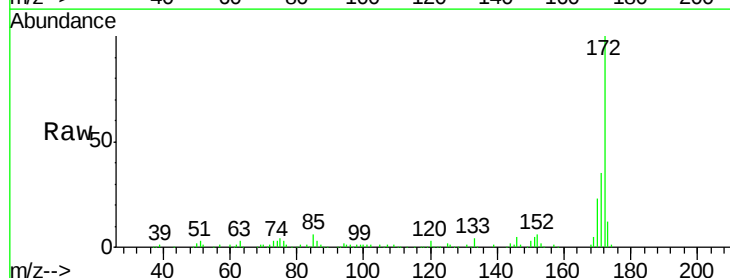


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

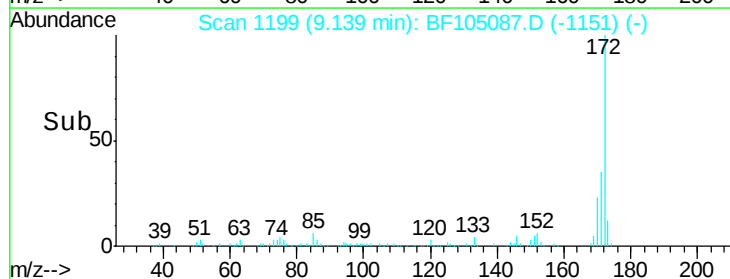
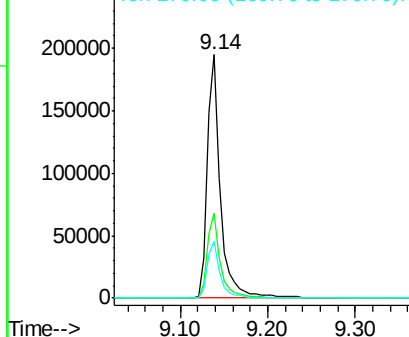


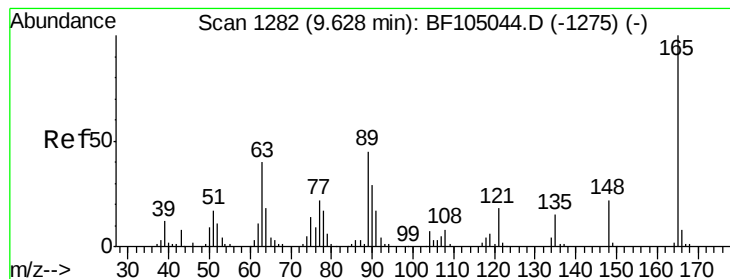
#44
 2-Fluorobiphenyl
 Concen: 16.82 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

Tgt Ion:172 Resp: 204145
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.7 44.5
 170 23.3 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#50

2,6-Dinitrotoluene

Concen: 8.91 ng

RT: 9.82 min Scan# 1315

Delta R.T. 0.19 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Instrument :
BNA_F
ClientSampleId :

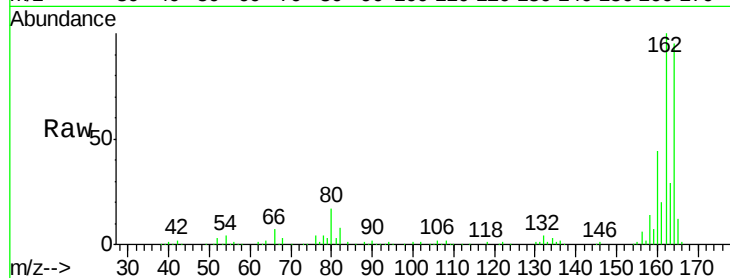
Tot Ion:165 Resp: 24928

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

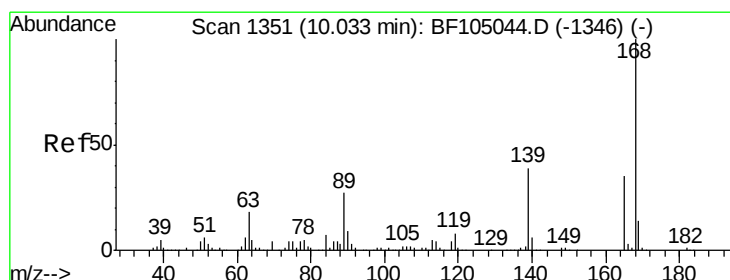
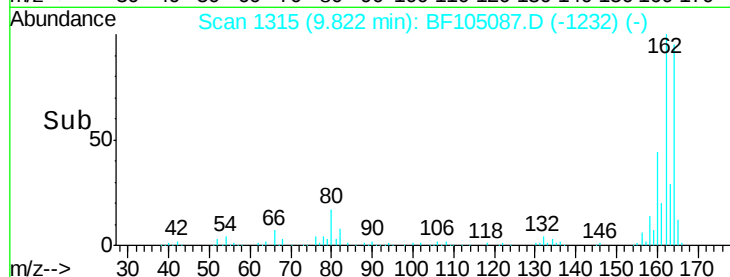
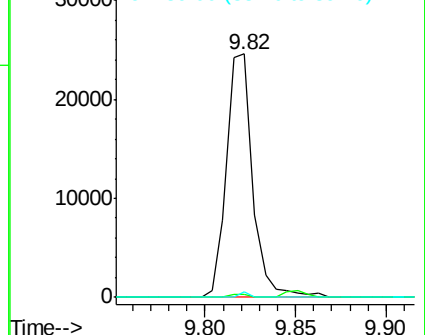
89 2.1 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56

2,4-Dinitrotoluene

Concen: 6.79 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.22 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Tgt Ion:165 Resp: 24928

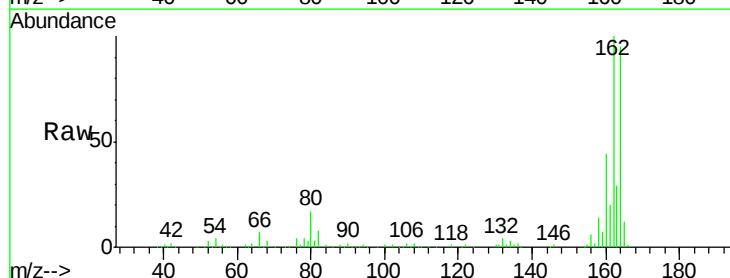
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 2.1 57.8 86.6#

182 0.0 1.6 2.4#

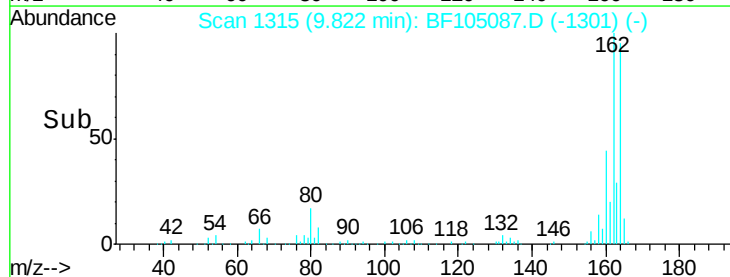
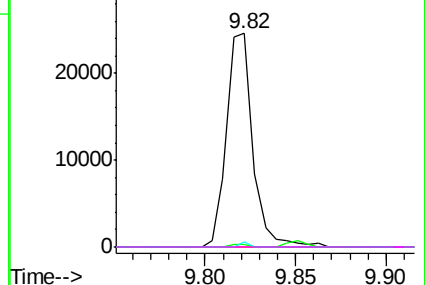


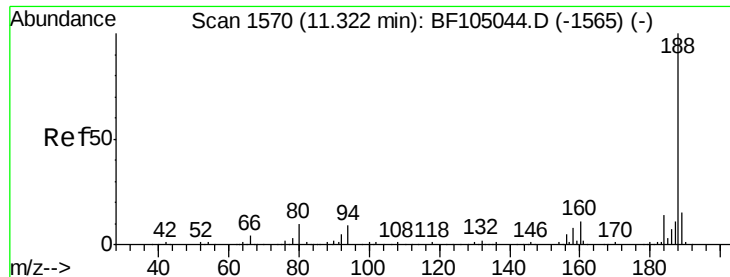
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

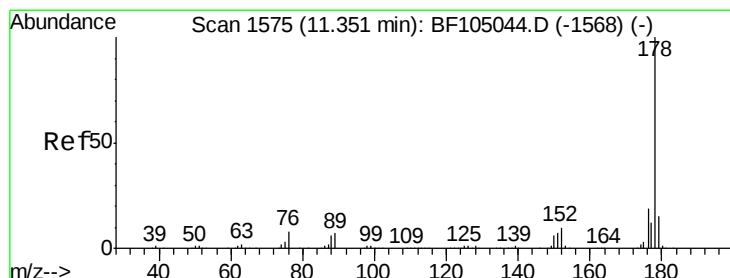
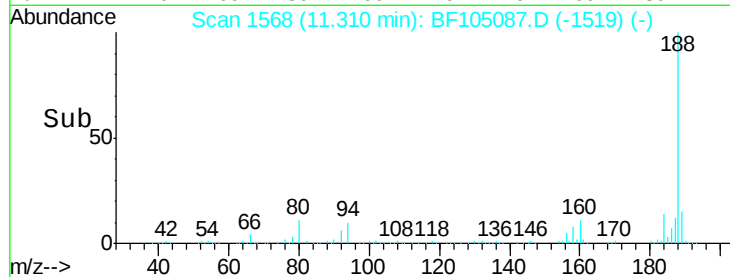
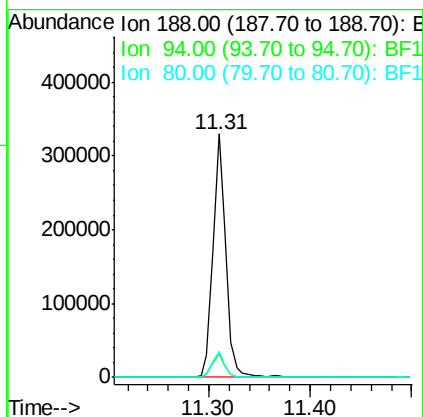
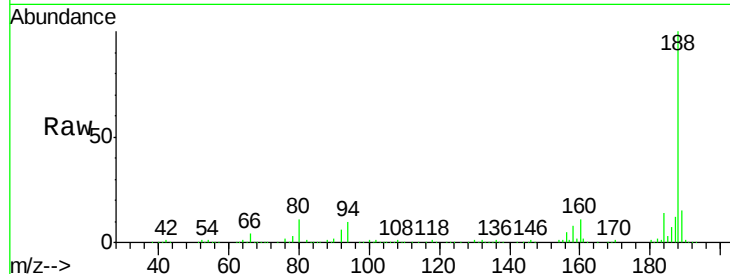




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

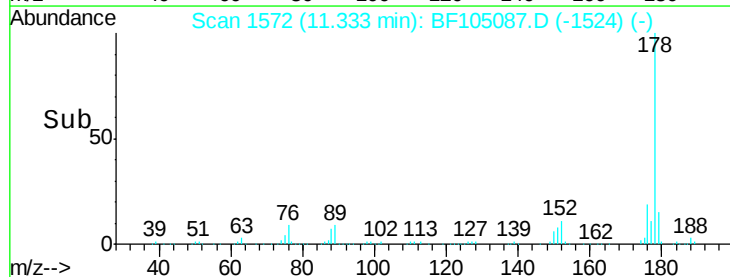
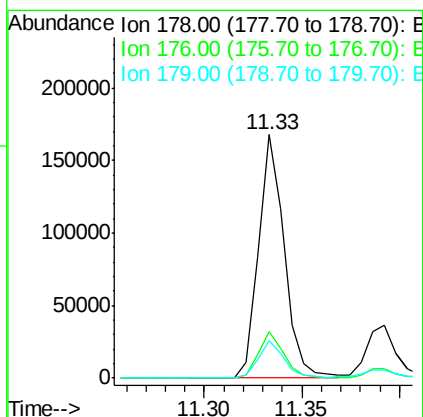
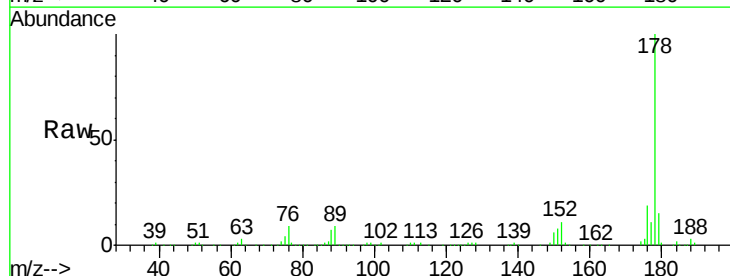
Instrument :
BNA_F
ClientSampleId :

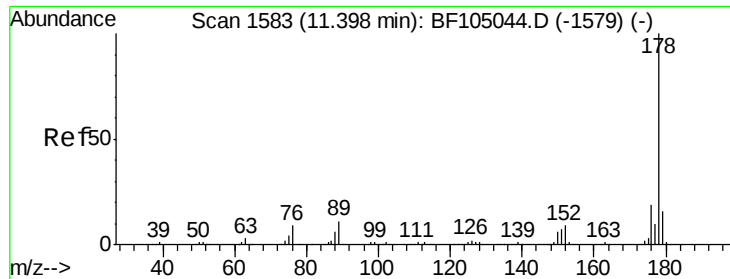
Tot Ion:188 Resp: 290814
Ion Ratio Lower Upper
188 100
94 9.8 8.5 12.7
80 10.7 9.2 13.8



#70
Phenanthrene
Concen: 9.47 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.02 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion:178 Resp: 153334
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.2 13.0 19.6

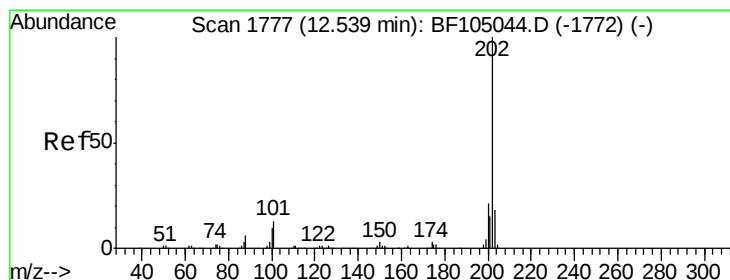
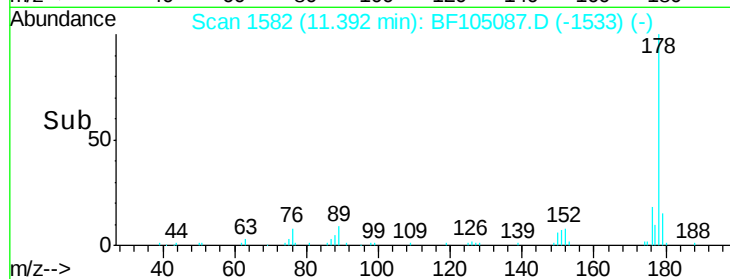
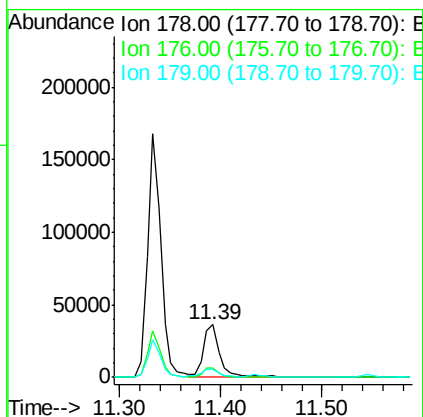
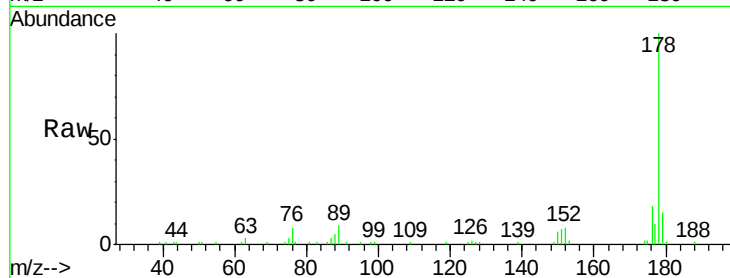




#71
 Anthracene
 Concen: 2.61 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

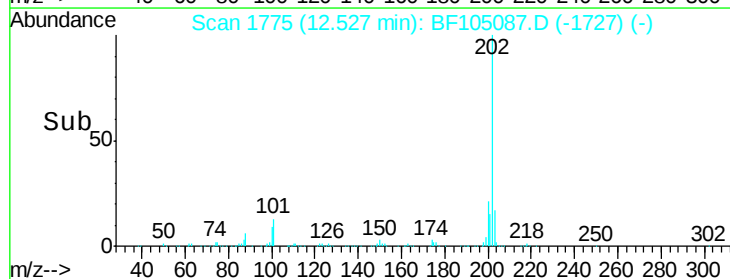
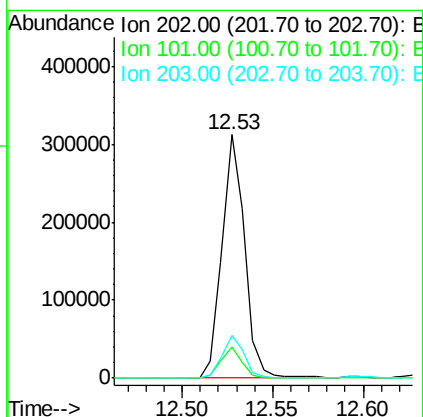
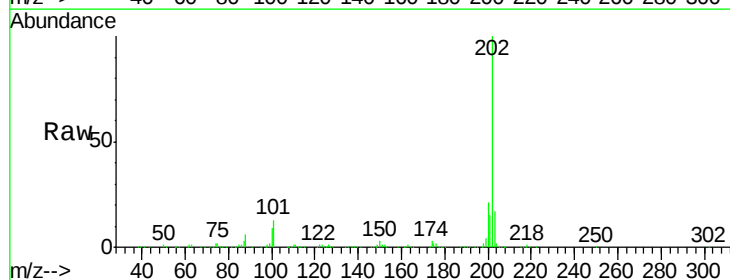
Instrument :
 BNA_F
 ClientSampleId :

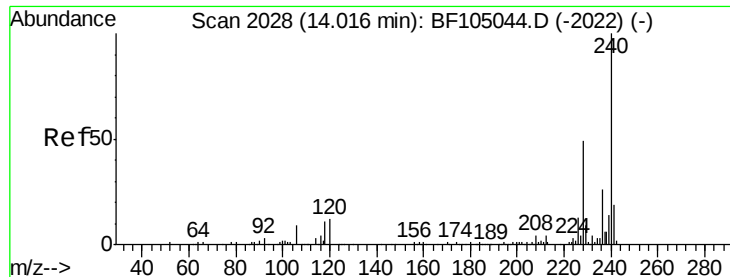
Tot Ion:178 Resp: 43000
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 14.8 12.6 19.0



#74
 Fluoranthene
 Concen: 16.13 ng
 RT: 12.53 min Scan# 1775
 Delta R.T. -0.02 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

Tgt Ion:202 Resp: 272898
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 34.1
 203 17.5 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.04 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

Instrument :

BNA_F

ClientSampleId :

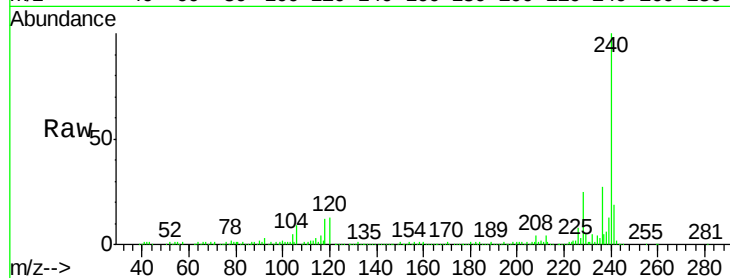
Tot Ion:240 Resp: 197599

Ion Ratio Lower Upper

240 100

120 13.1 9.5 14.3

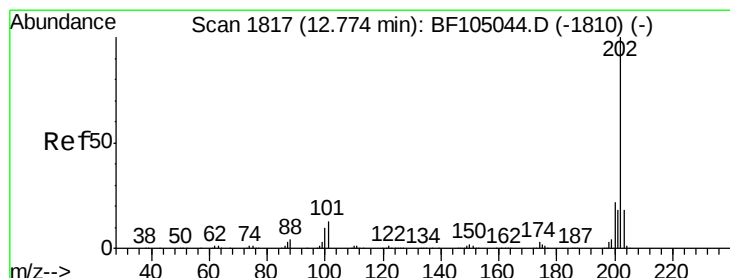
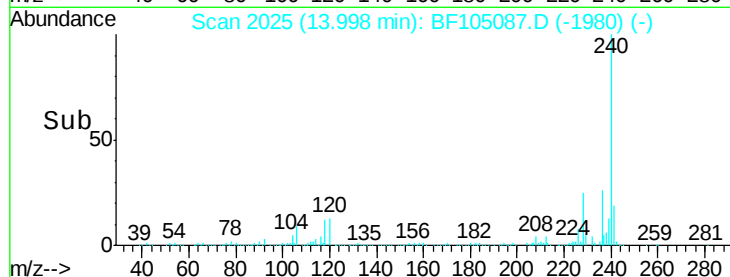
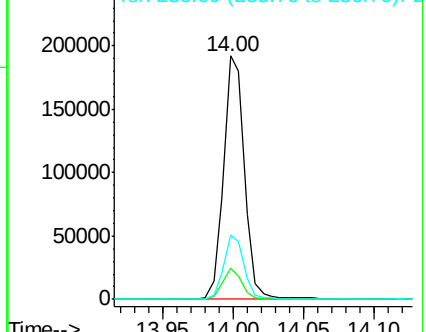
236 26.6 20.7 31.1



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



#77

Pyrene

Concen: 16.58 ng

RT: 12.76 min Scan# 1814

Delta R.T. -0.02 min

Lab File: BF105087.D

Acq: 3 May 2018 21:52

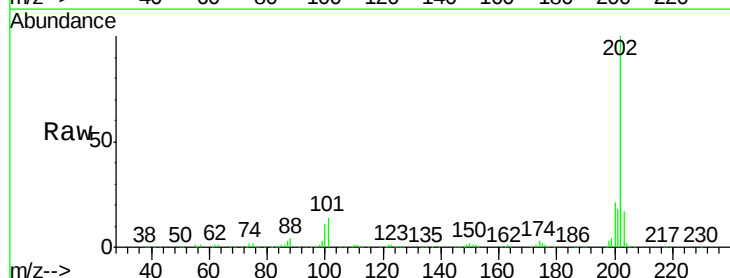
Tgt Ion:202 Resp: 242795

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

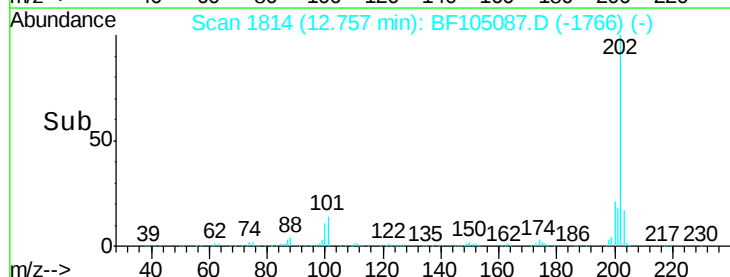
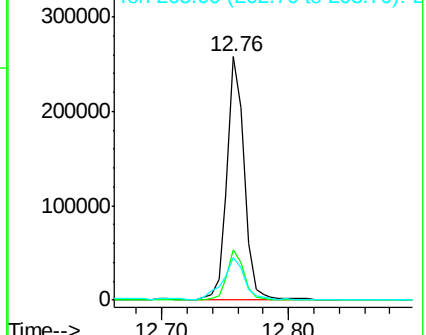
203 17.3 14.3 21.5

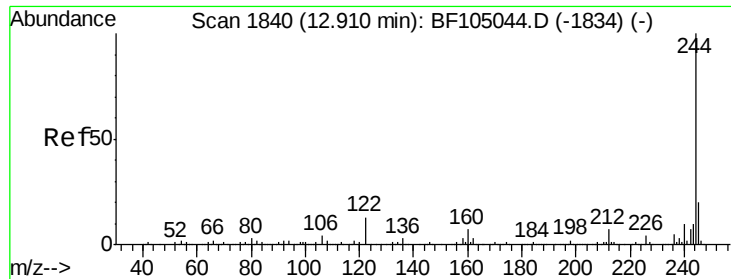


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

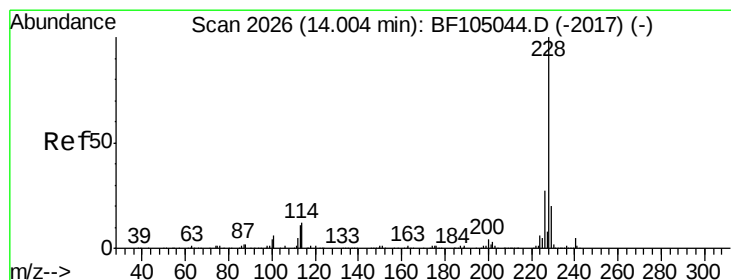
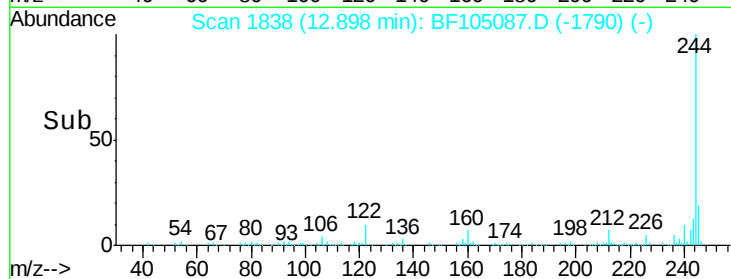
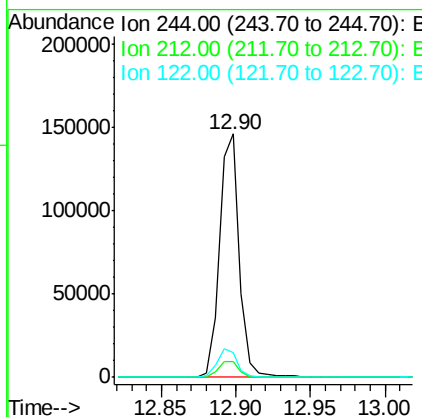
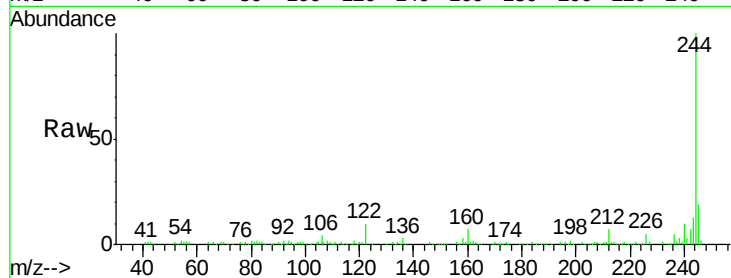




#78
 Terphenyl-d14
 Concen: 15.64 ng
 RT: 12.90 min Scan# 1838
 Delta R.T. -0.02 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

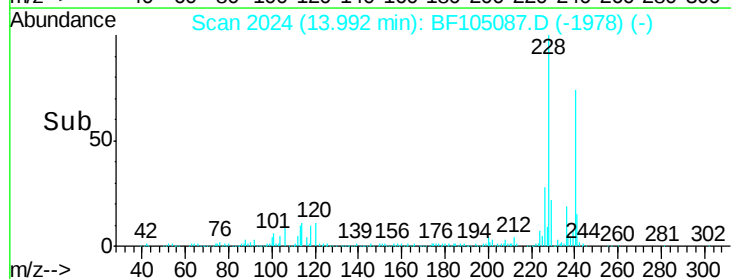
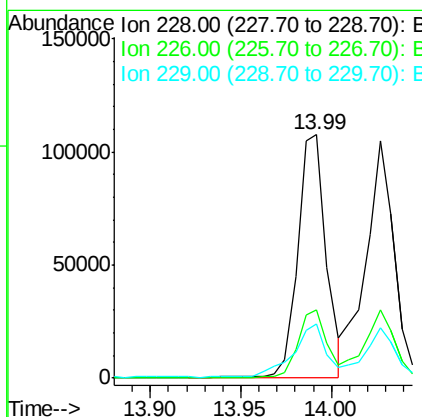
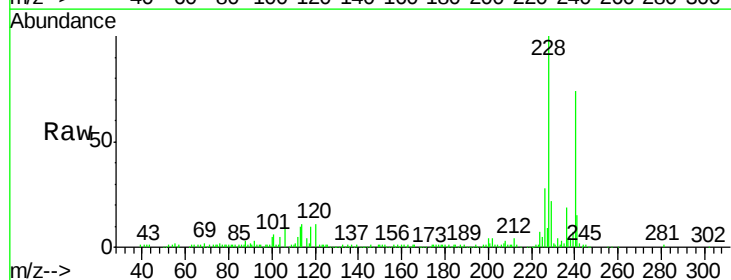
Instrument :
 BNA_F
 ClientSampleId :

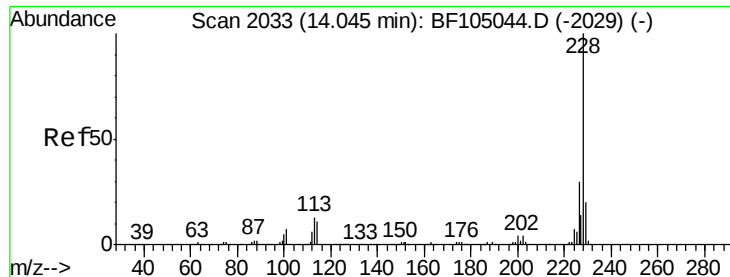
Tot Ion:244 Resp: 135543
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.1 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 10.09 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.03 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

Tgt Ion:228 Resp: 119078
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.6 33.8
 229 22.3 15.8 23.6

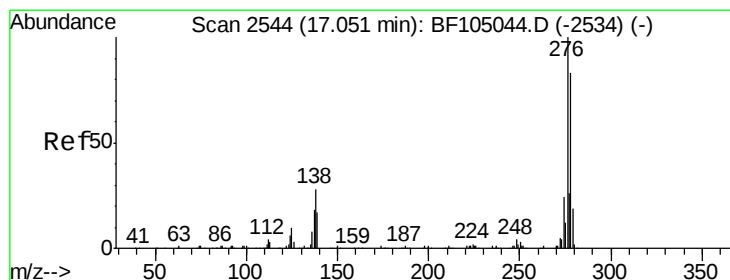
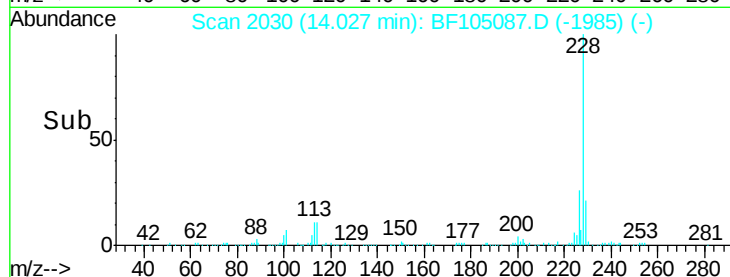
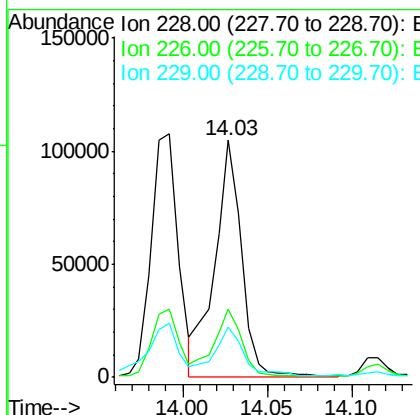
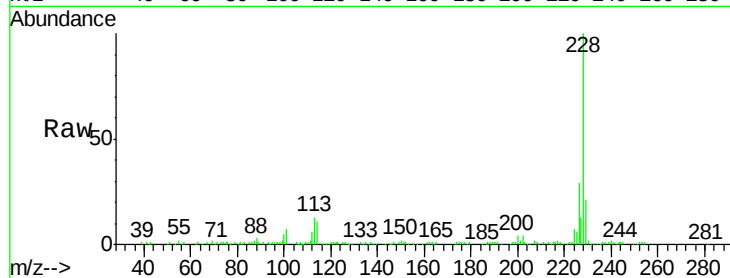




#82
Chrysene
Concen: 9.58 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.04 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

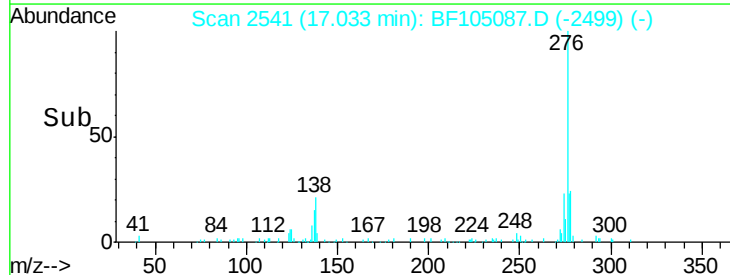
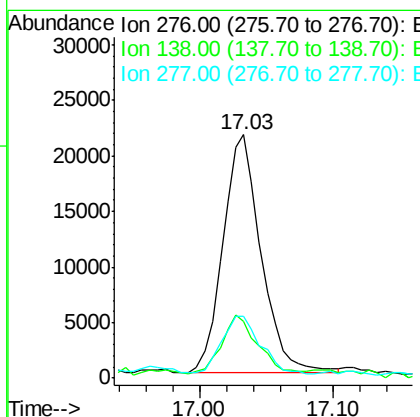
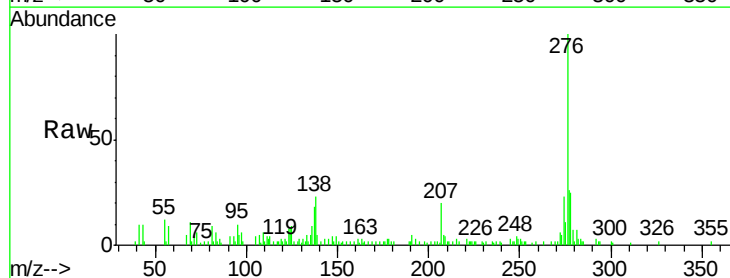
Instrument :
BNA_F
ClientSampleId :

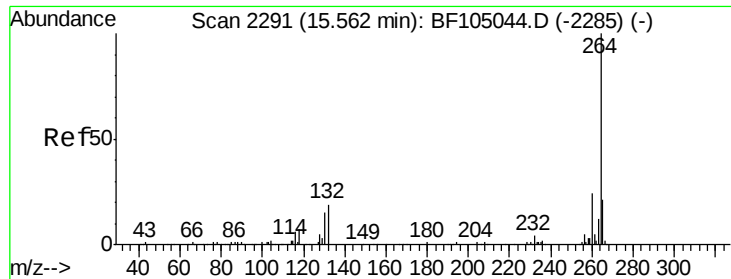
Tot Ion:228 Resp: 116169
Ion Ratio Lower Upper
228 100
226 29.0 25.0 37.6
229 21.4 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 4.14 ng
RT: 17.03 min Scan# 2541
Delta R.T. -0.05 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion:276 Resp: 42596
Ion Ratio Lower Upper
276 100
138 25.6 25.0 37.6
277 24.2 20.1 30.1



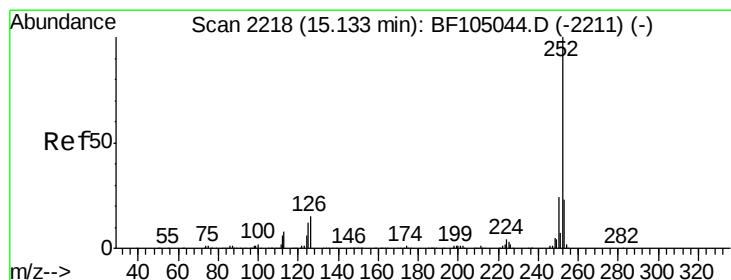
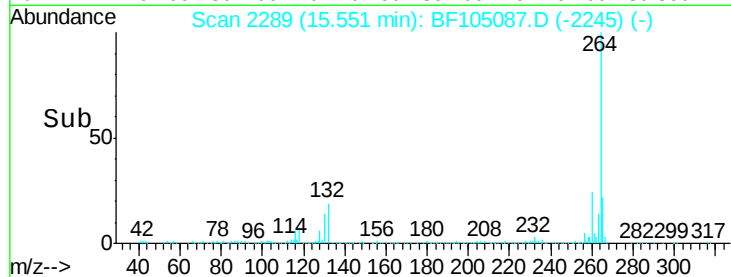
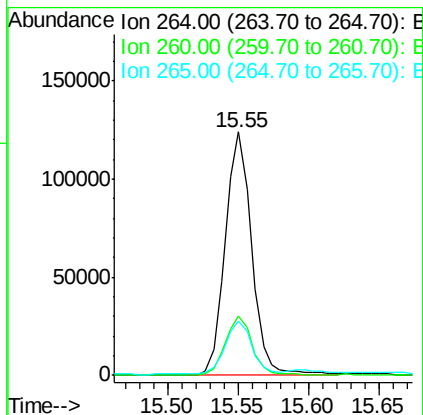
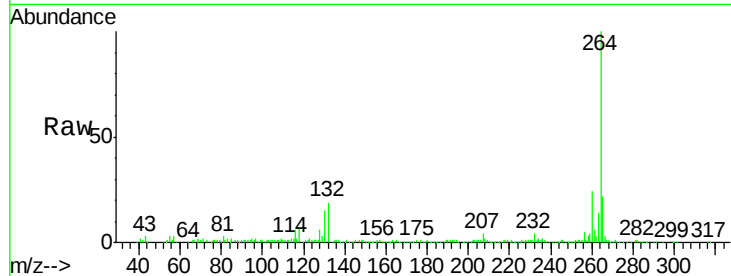


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.55 min Scan# 2289
Delta R.T. -0.04 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 162472

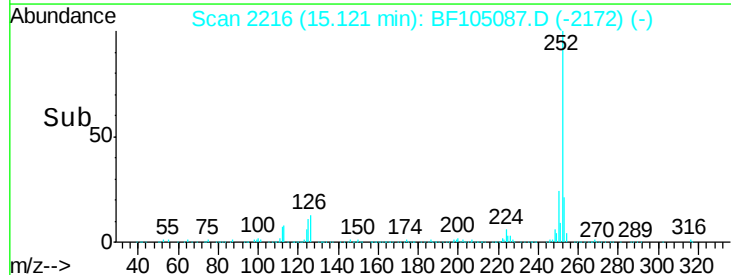
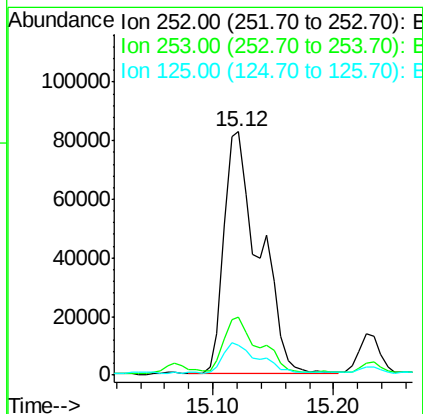
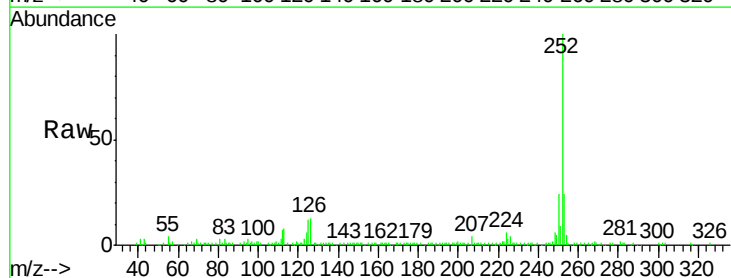
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.0	17.5	26.3

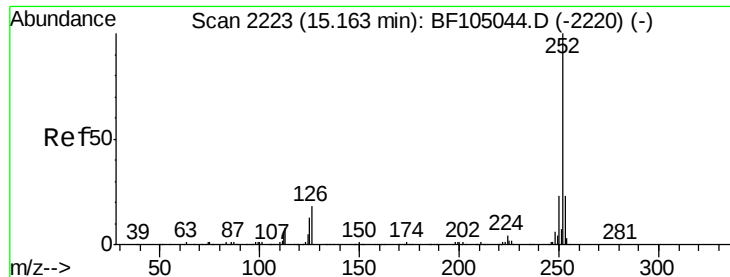


#87
Benzo(b)fluoranthene
Concen: 16.33 ng
RT: 15.12 min Scan# 2216
Delta R.T. -0.04 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion:252 Resp: 167555

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	12.0	9.0	13.6

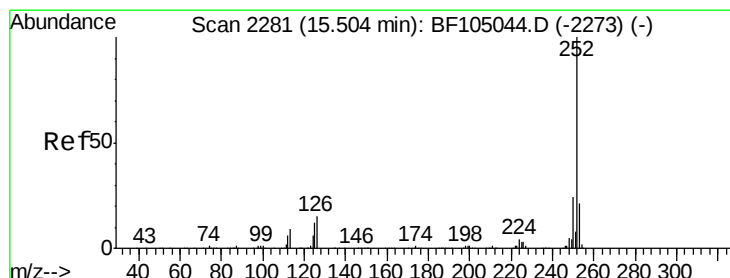
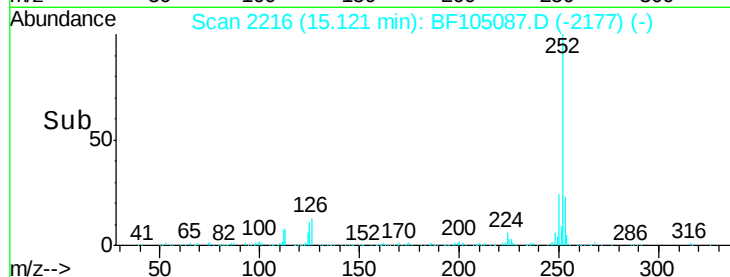
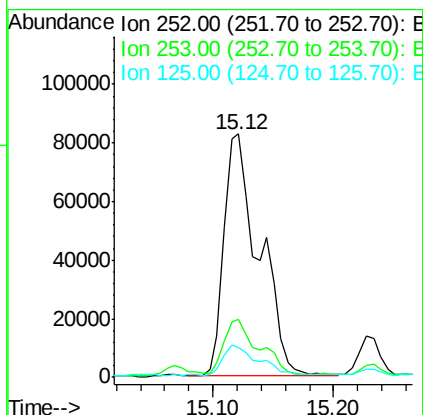
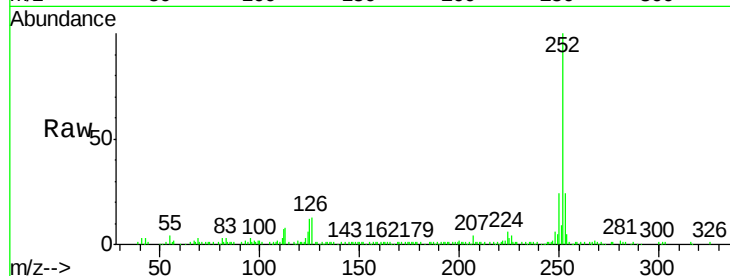




#88
Benzo(k)fluoranthene
Concen: 17.30 ng
RT: 15.12 min Scan# 2216
Delta R.T. -0.07 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

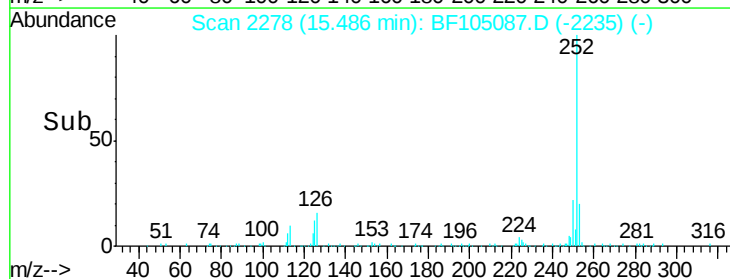
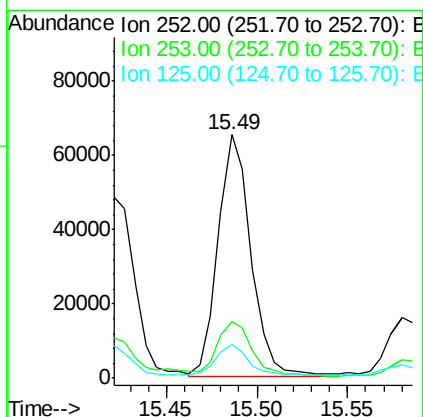
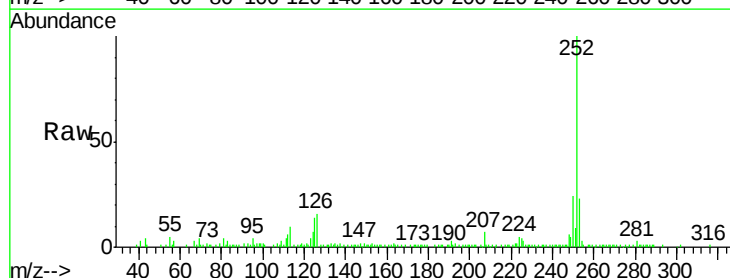
Instrument :
BNA_F
ClientSampled :

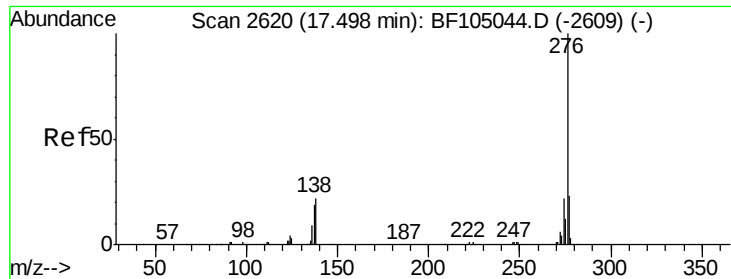
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	12.0	10.2	15.2



#89
Benzo(a)pyrene
Concen: 8.99 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.05 min
Lab File: BF105087.D
Acq: 3 May 2018 21:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	13.8	9.8	14.6

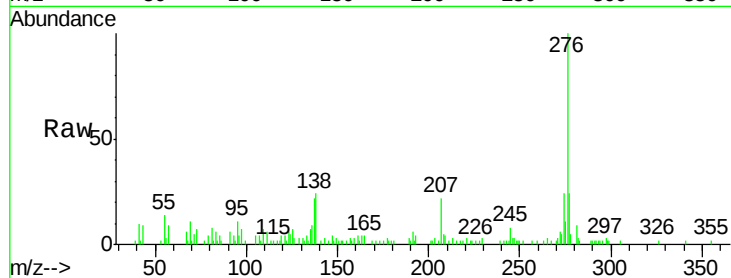




#91
 Benzo(a,h,i)perylene
 Concen: 6.11 ng
 RT: 17.48 min Scan# 2617
 Delta R.T. -0.05 min
 Lab File: BF105087.D
 Acq: 3 May 2018 21:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	24.0	21.8	32.8



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

