

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052916\
 Data File : BF087576.D
 Acq On : 31 May 2016 6:11
 Operator : UM/SJ
 Sample : H3211-04DL 10X
 Misc :
 ALS Vial : 94 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

Quant Time: May 31 06:45:09 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

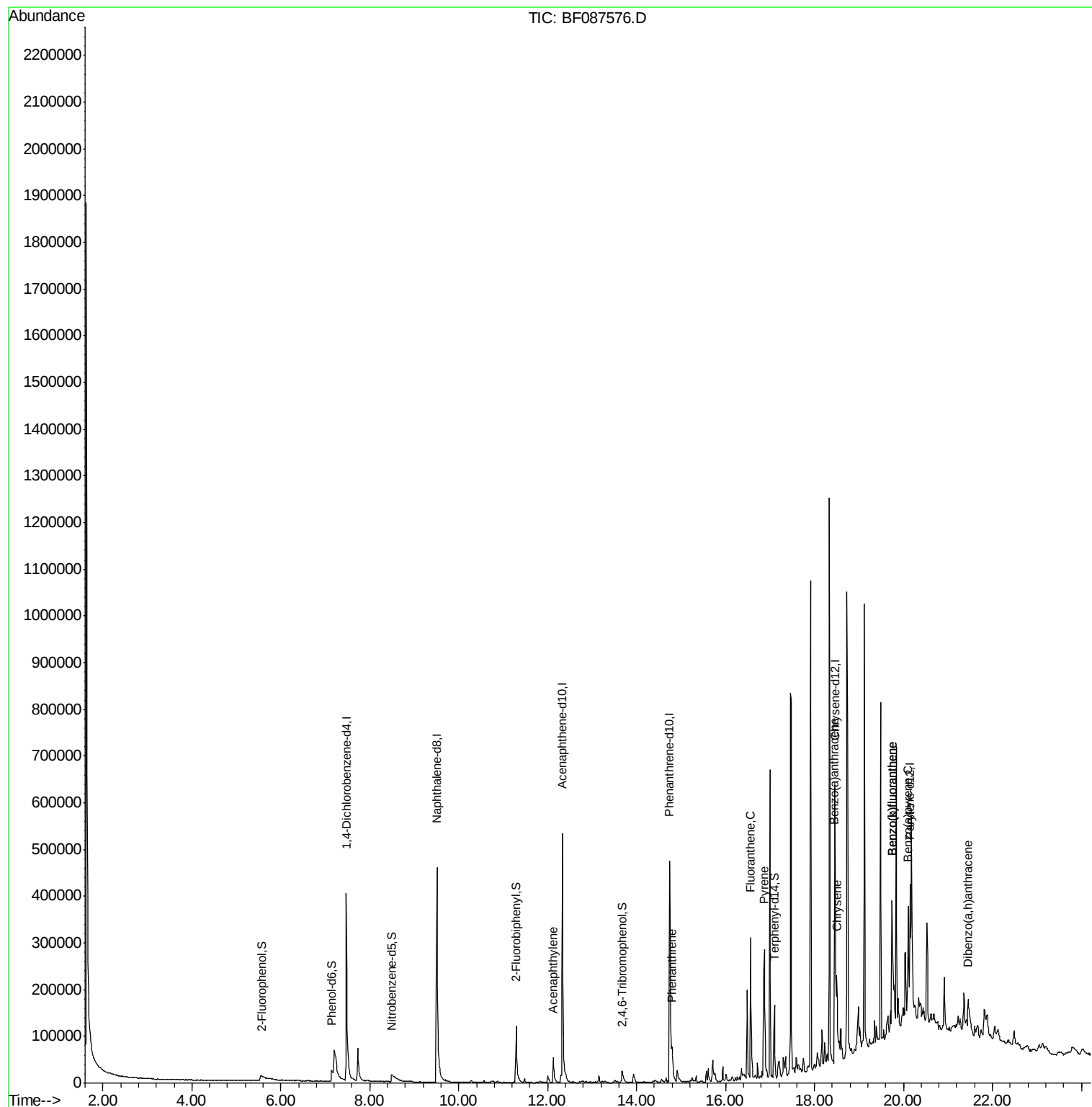
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	98942	20.00	ng	-0.05
21) Naphthalene-d8	9.51	136	405264	20.00	ng	-0.05
38) Acenaphthene-d10	12.33	164	173256	20.00	ng	-0.06
63) Phenanthrene-d10	14.74	188	280003	20.00	ng	-0.03
75) Chrysene-d12	18.46	240	224510	20.00	ng	-0.02
86) Perylene-d12	20.15	264	178192	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	16230	2.88	ng	0.15
7) Phenol-d6	7.14	99	42420	5.58	ng	0.07
23) Nitrobenzene-d5	8.50	82	32038	3.98	ng	0.06
41) 2,4,6-Tribromophenol	13.68	330	9225	5.54	ng	0.00
44) 2-Fluorobiphenyl	11.29	172	84409	6.87	ng	-0.05
78) Terphenyl-d14	17.10	244	57053	5.40	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	12.13	152	51966	2.94	ng	97
70) Phenanthrene	14.80	178	65010	4.19	ng	99
74) Fluoranthene	16.56	202	205706	13.23	ng	92
77) Pyrene	16.87	202	209817	12.98	ng	99
80) Benzo(a)anthracene	18.45	228	159370	12.48	ng	100
82) Chrysene	18.50	228	126112	9.95	ng	97
87) Benzo(b)fluoranthene	19.75	252	275958	24.31	ng	97
88) Benzo(k)fluoranthene	19.75	252	275958	28.25	ng	100
89) Benzo(a)pyrene	20.10	252	123080	12.54	ng	95
90) Dibenzo(a,h)anthracene	21.44	278	19224	2.30	ng	95

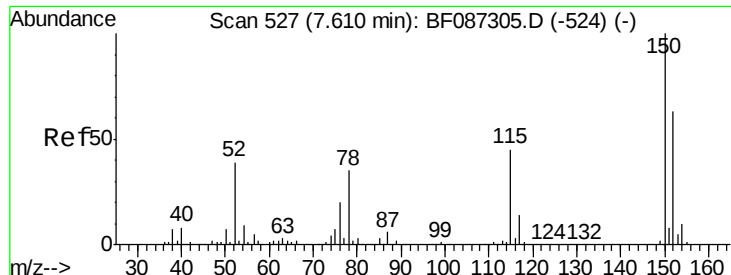
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.47 min Scan# 515

Delta R.T. -0.05 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

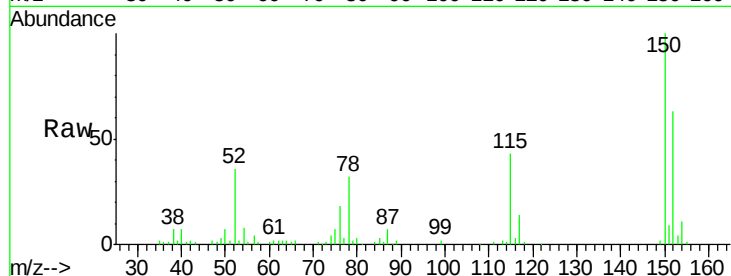
Tgt Ion:152 Resp: 98942

Ion Ratio Lower Upper

152 100

150 157.9 125.8 188.6

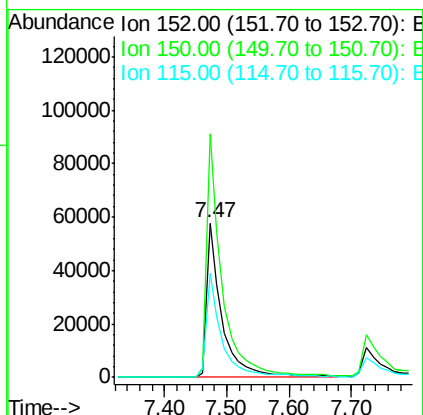
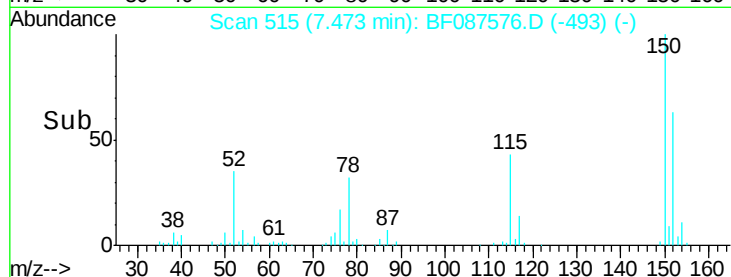
115 67.9 51.5 77.3



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: 2.88 ng

RT: 5.56 min Scan# 348

Delta R.T. 0.15 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

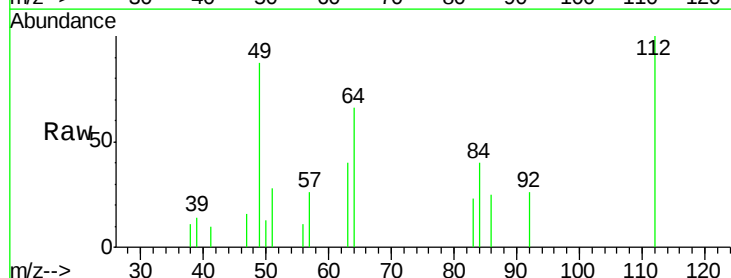
Tgt Ion:112 Resp: 16230

Ion Ratio Lower Upper

112 100

64 65.5 52.1 78.1

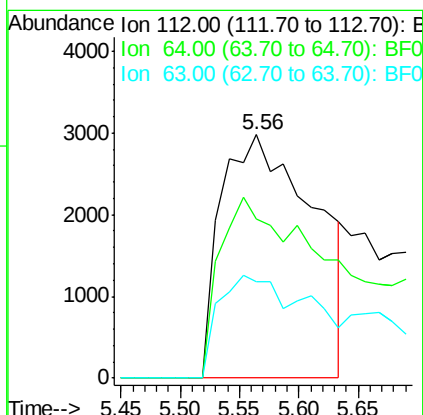
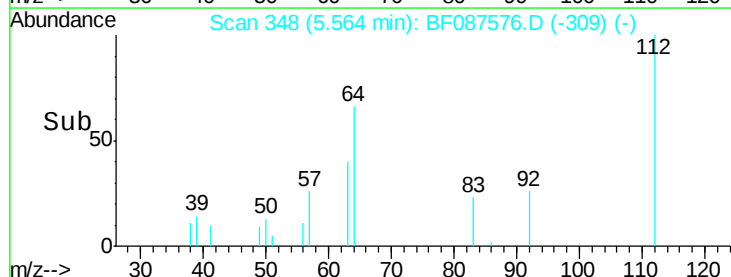
63 39.6 25.7 38.5#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 5.58 ng

RT: 7.14 min Scan# 486

Delta R.T. 0.07 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

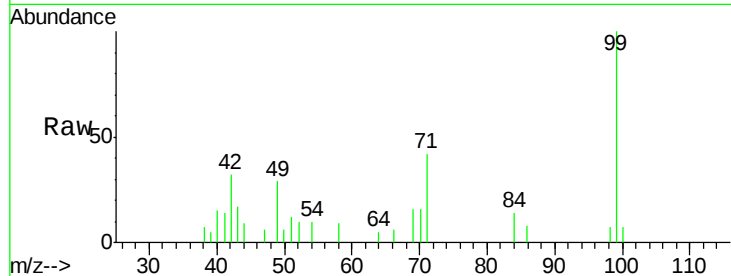
Tgt Ion: 99 Resp: 42420

Ion Ratio Lower Upper

99 100

42 32.0 13.6 20.4#

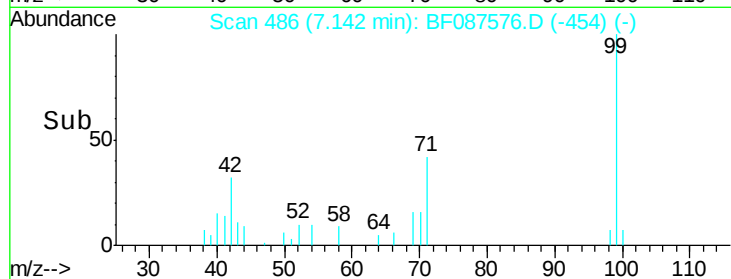
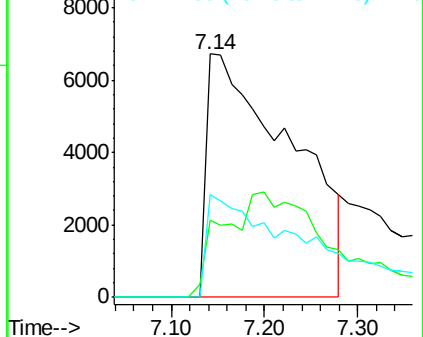
71 42.3 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.05 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Tgt Ion: 136 Resp: 405264

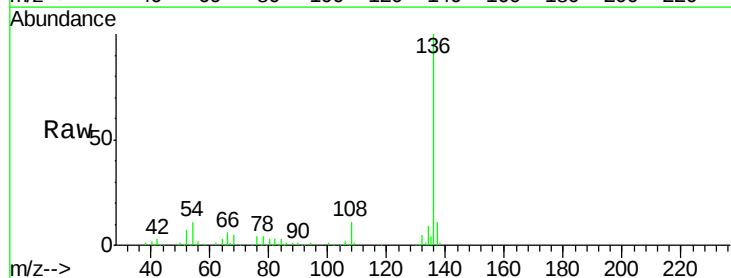
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 10.8 5.0 7.4#

68 5.1 4.4 6.6

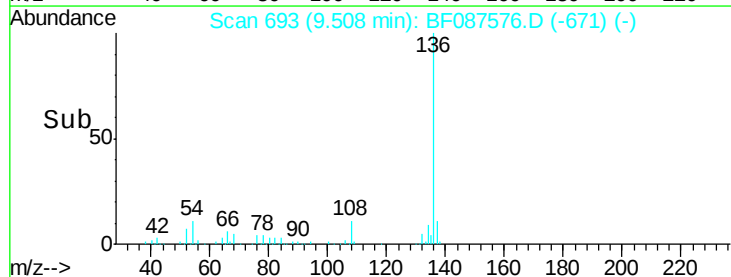
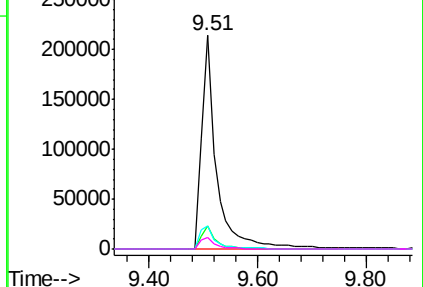


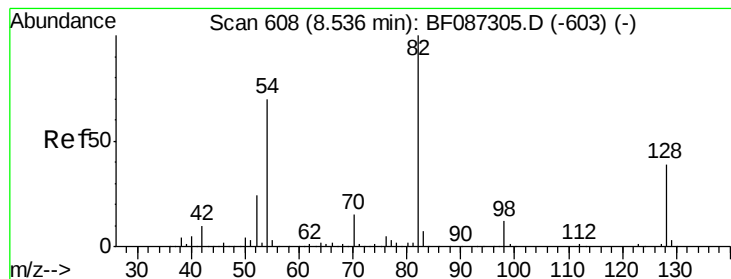
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 3.98 ng

RT: 8.50 min Scan# 605

Delta R.T. 0.06 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

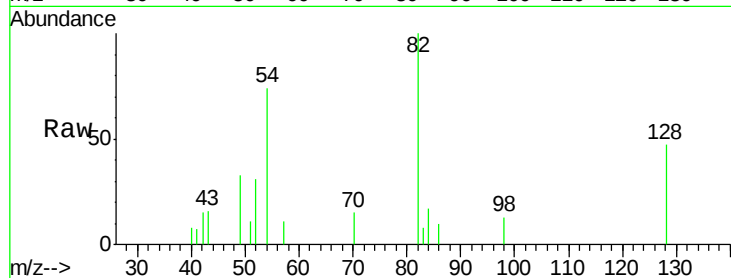
Tgt Ion: 82 Resp: 32038

Ion Ratio Lower Upper

82 100

128 46.7 40.6 61.0

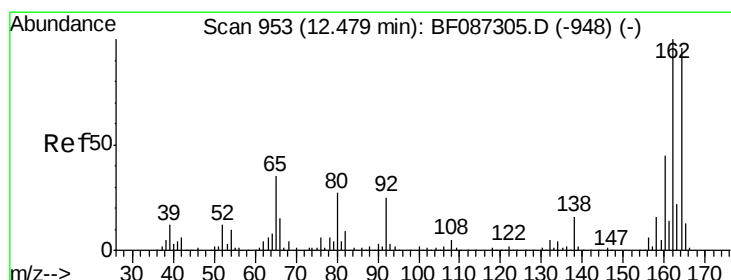
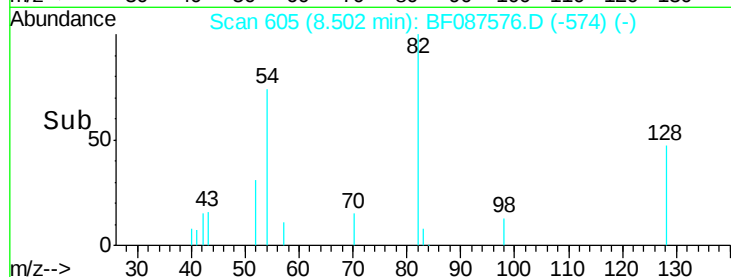
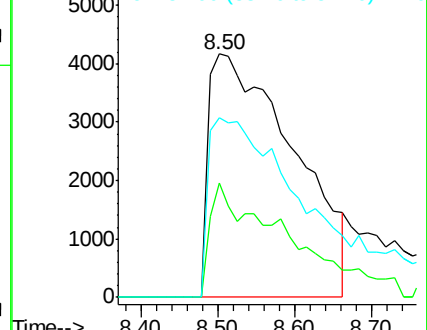
54 73.8 38.1 57.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.06 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

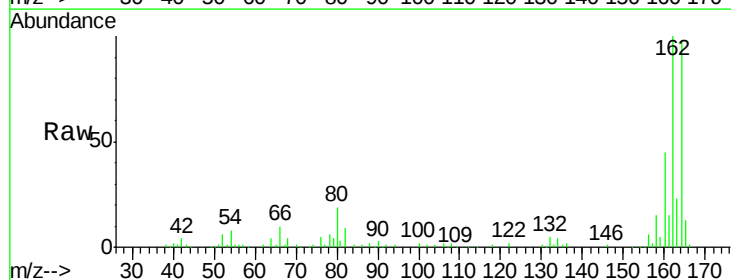
Tgt Ion: 164 Resp: 173256

Ion Ratio Lower Upper

164 100

162 102.4 82.8 124.2

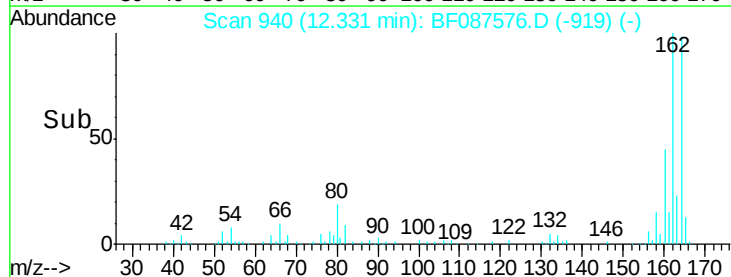
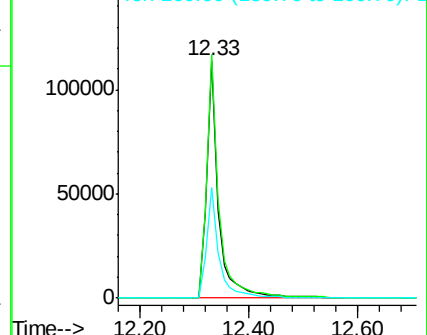
160 46.5 36.9 55.3



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

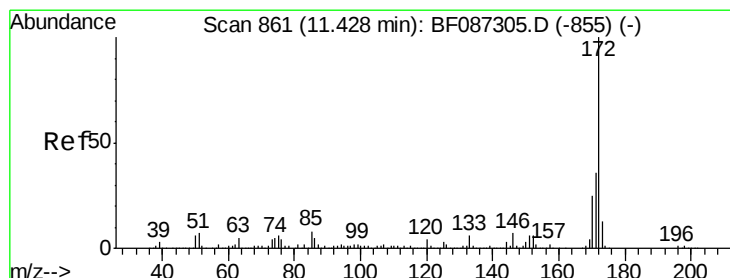
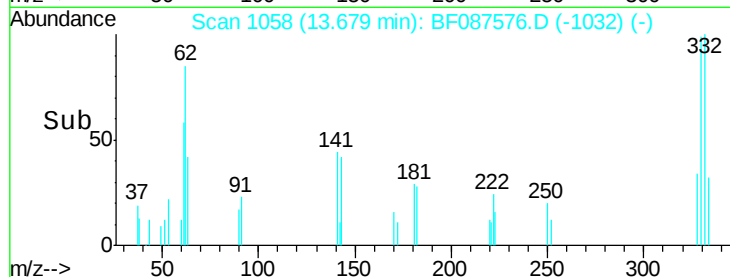
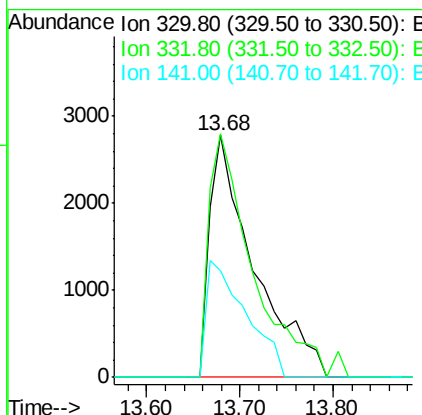
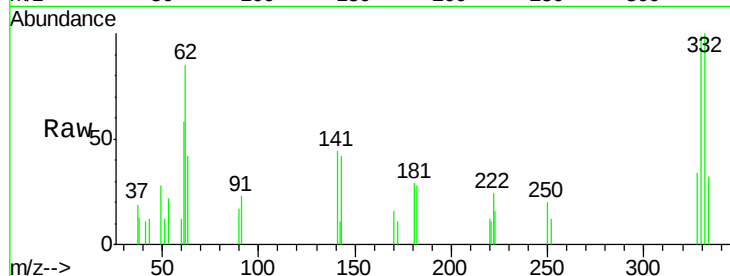




#41
 2,4,6-Tribromophenol
 Concen: 5.54 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. 0.00 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

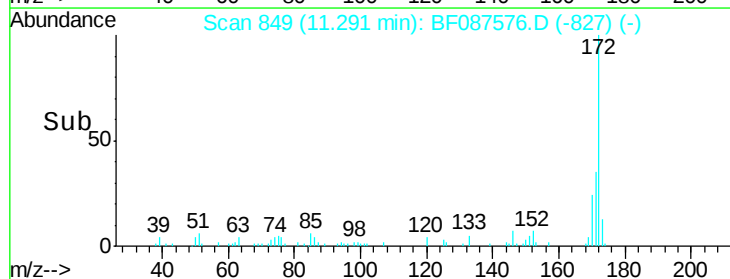
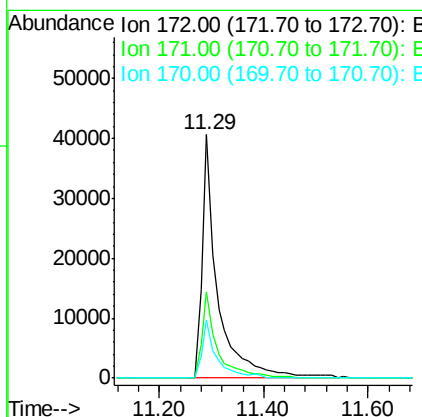
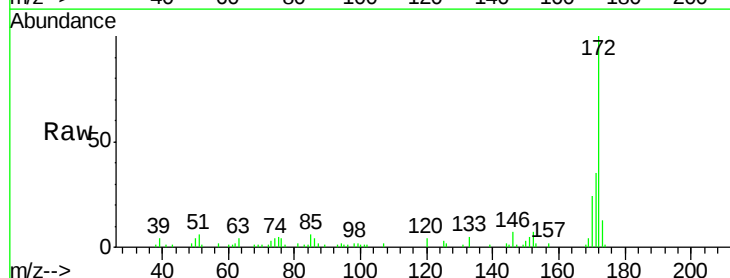
Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

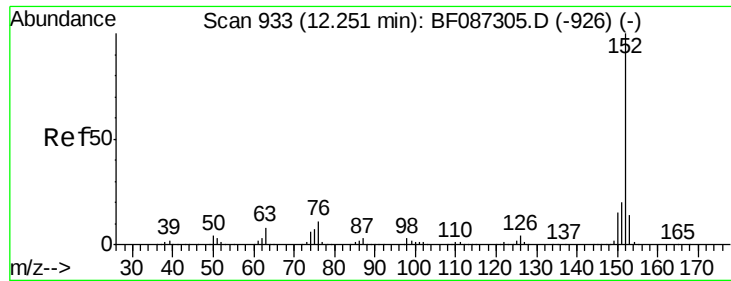
Tgt Ion:330 Resp: 9225
 Ion Ratio Lower Upper
 330 100
 332 100.9 79.0 118.4
 141 43.3 31.2 46.8



#44
 2-Fluorobiphenyl
 Concen: 6.87 ng
 RT: 11.29 min Scan# 849
 Delta R.T. -0.05 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

Tgt Ion:172 Resp: 84409
 Ion Ratio Lower Upper
 172 100
 171 35.3 29.0 43.6
 170 24.0 19.8 29.8





#48

Acenaphthylene

Concen: 2.94 ng

RT: 12.13 min Scan# 922

Delta R.T. -0.03 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

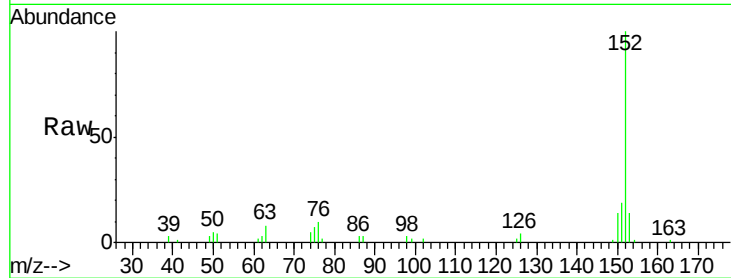
Tgt Ion:152 Resp: 51966

Ion Ratio Lower Upper

152 100

151 19.4 16.8 25.2

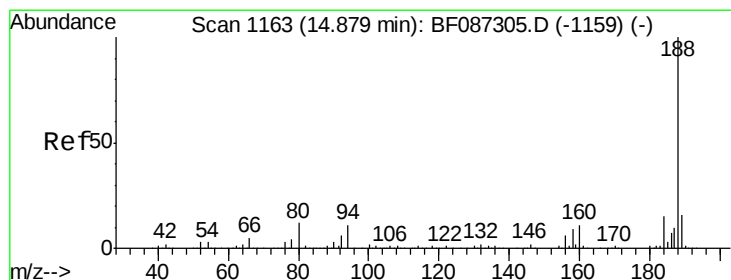
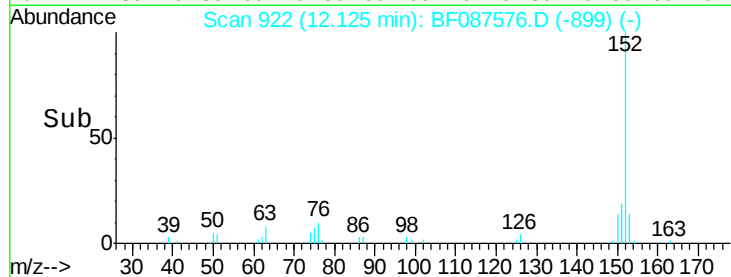
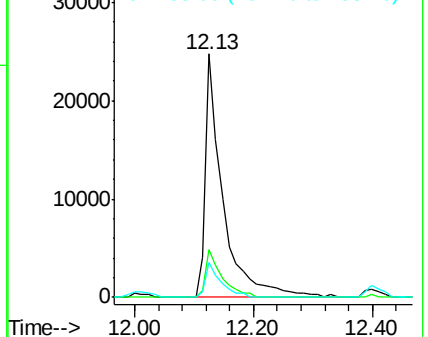
153 14.5 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.74 min Scan# 1151

Delta R.T. -0.03 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

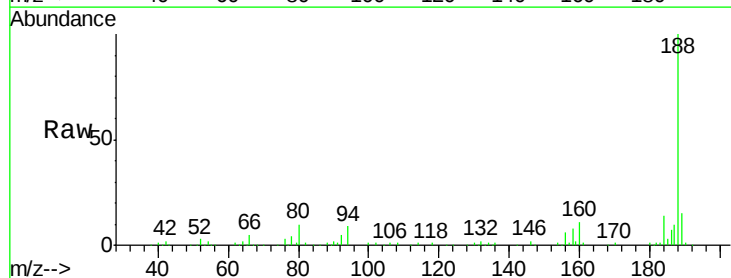
Tgt Ion:188 Resp: 280003

Ion Ratio Lower Upper

188 100

94 9.5 6.8 10.2

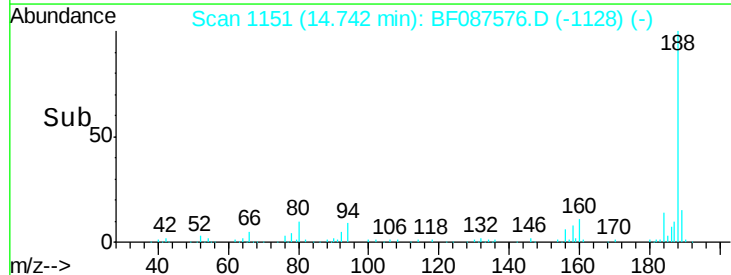
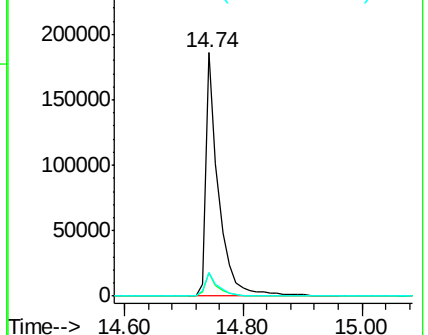
80 9.8 7.1 10.7

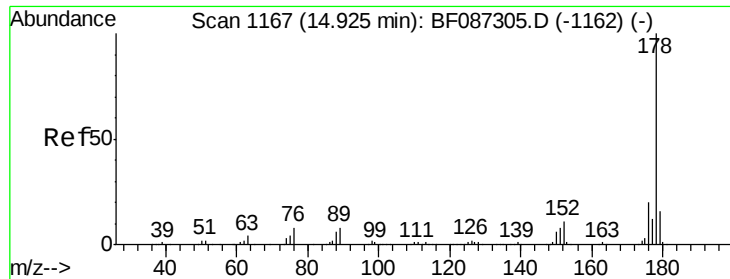


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 4.19 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.02 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

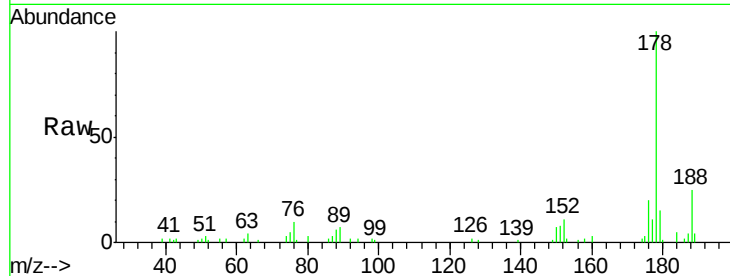
Tgt Ion:178 Resp: 65010

Ion Ratio Lower Upper

178 100

176 19.7 16.0 24.0

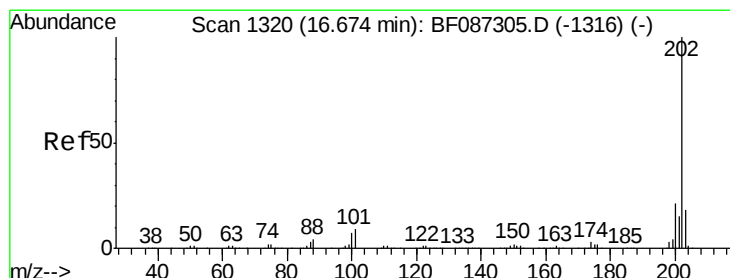
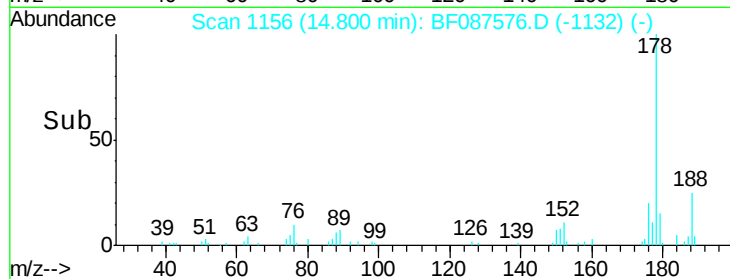
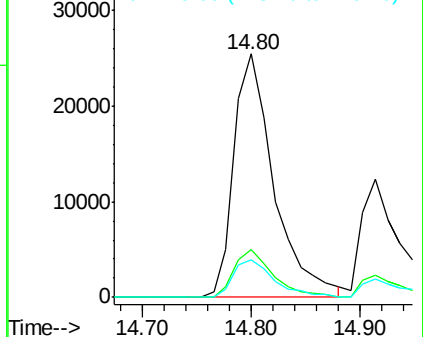
179 15.4 12.6 18.8



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



#74

Fluoranthene

Concen: 13.23 ng

RT: 16.56 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

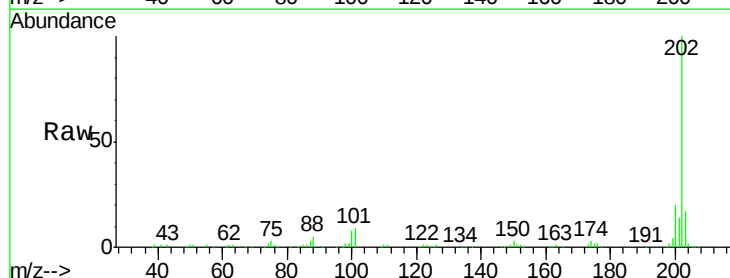
Tgt Ion:202 Resp: 205706

Ion Ratio Lower Upper

202 100

101 9.2 0.0 35.4

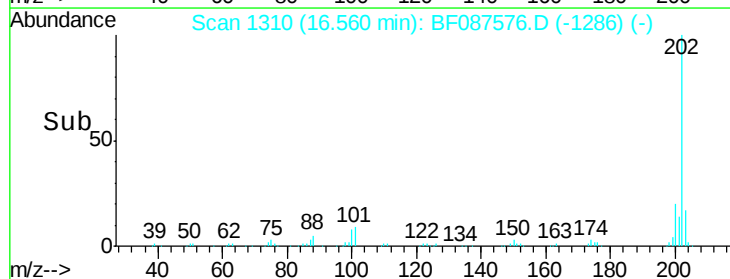
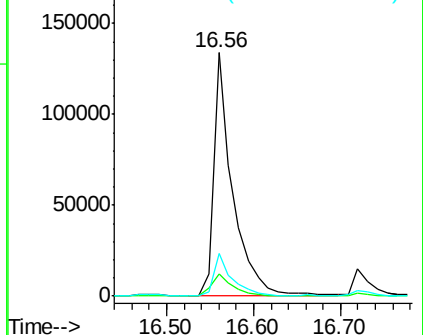
203 17.4 0.0 38.1

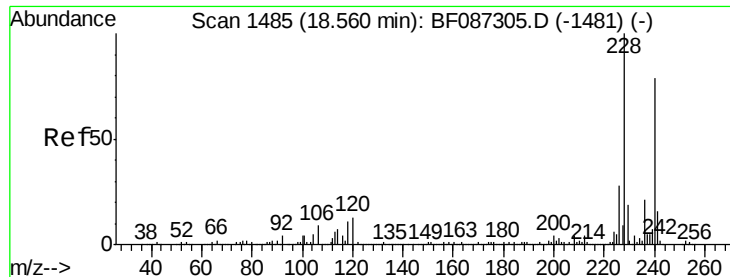


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.46 min Scan# 1476

Delta R.T. -0.02 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

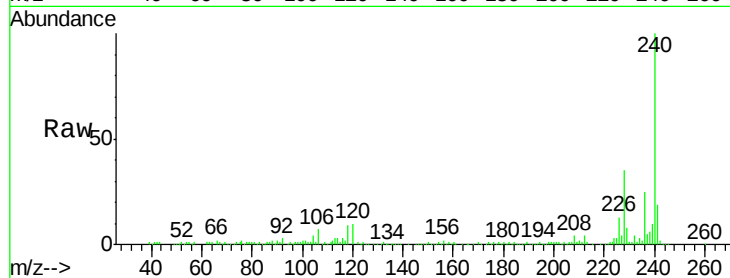
Tgt Ion:240 Resp: 224510

Ion Ratio Lower Upper

240 100

120 10.2 11.2 16.8#

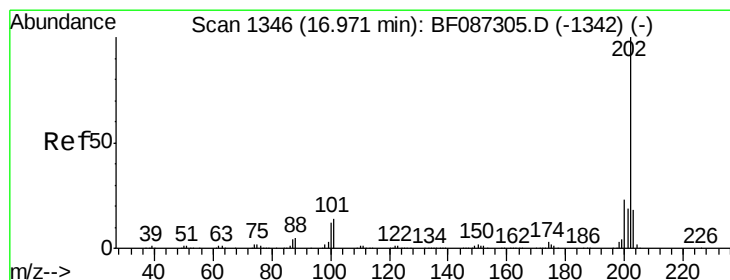
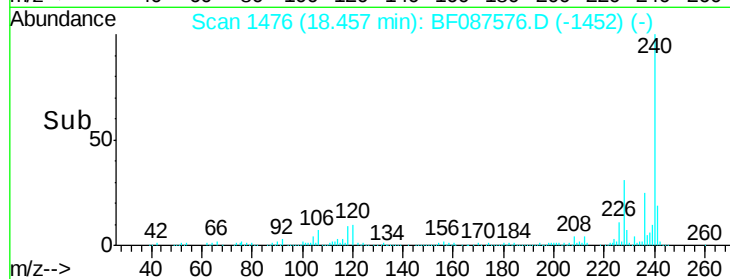
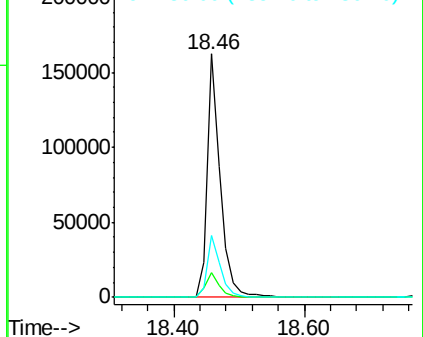
236 25.5 21.2 31.8



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: 12.98 ng

RT: 16.87 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

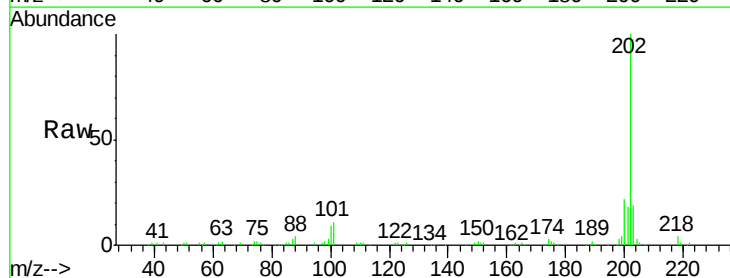
Tgt Ion:202 Resp: 209817

Ion Ratio Lower Upper

202 100

200 21.7 17.7 26.5

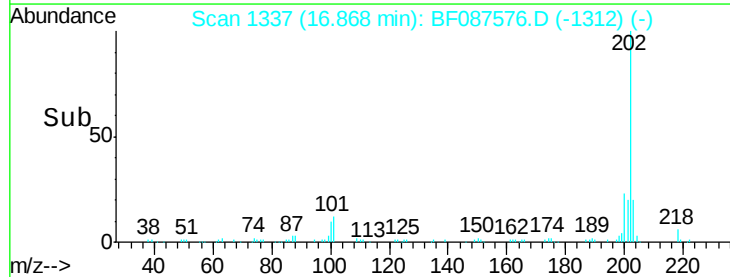
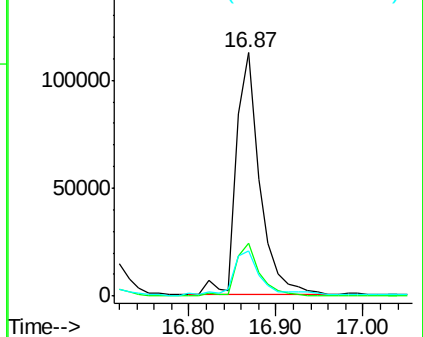
203 18.8 14.2 21.4

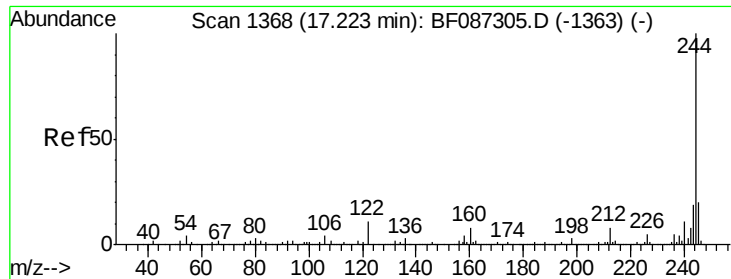


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

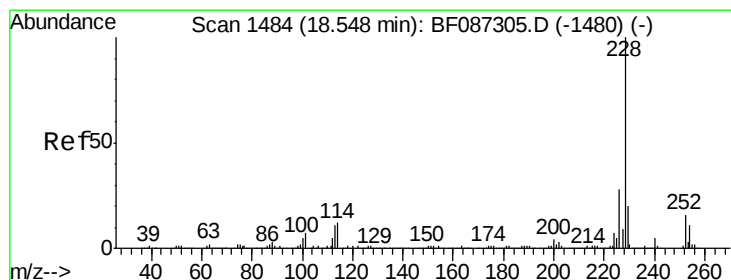
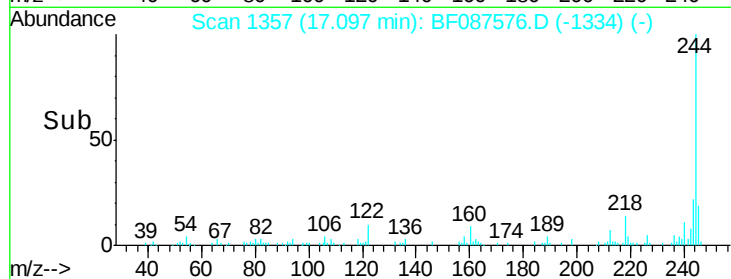
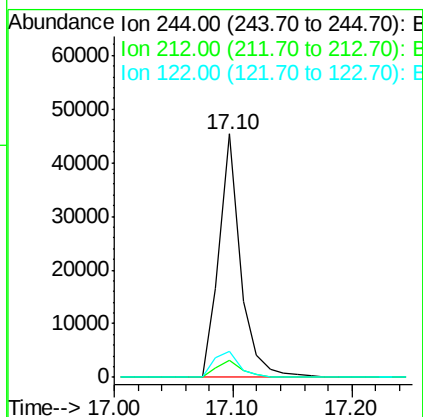
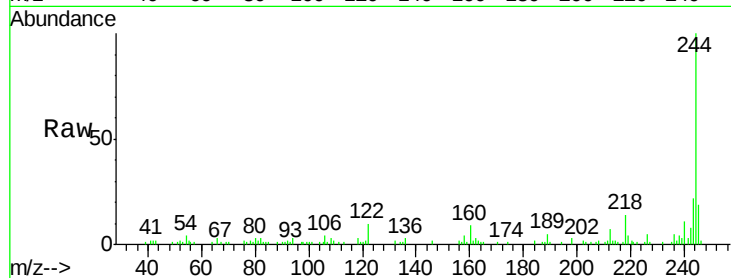




#78
 Terphenyl-d14
 Concen: 5.40 ng
 RT: 17.10 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

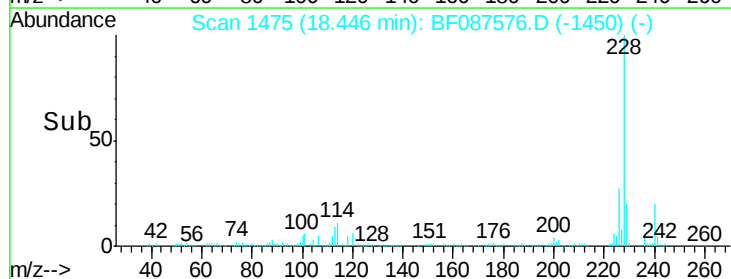
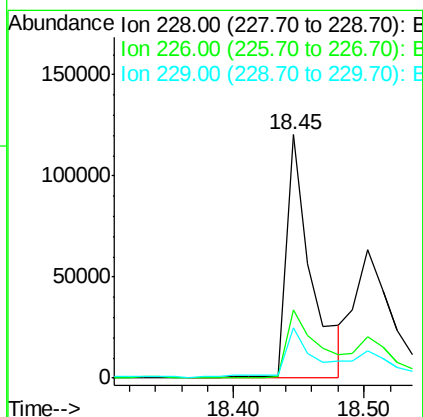
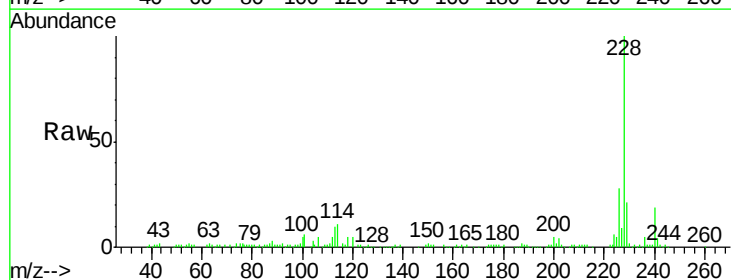
Instrument :
 BNA_F
 ClientSampleId :
 TA-1304-(0-4)DL

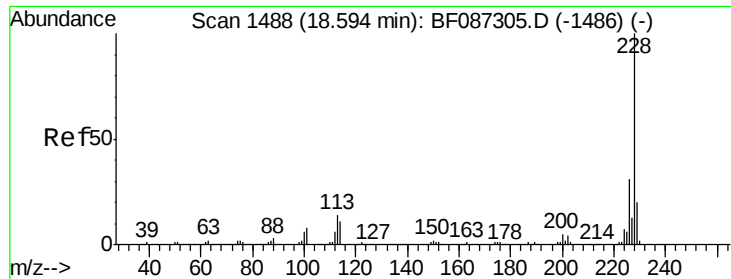
Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.2	9.2
122	10.5	12.0	18.0



#80
 Benzo(a)anthracene
 Concen: 12.48 ng
 RT: 18.45 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: BF087576.D
 Acq: 31 May 2016 6:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.6	16.6	25.0





#82

Chrysene

Concen: 9.95 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

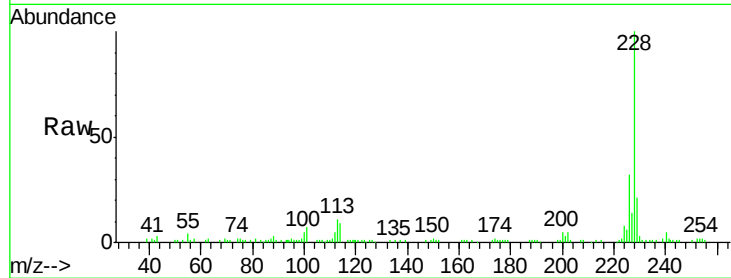
Tgt Ion:228 Resp: 126112

Ion Ratio Lower Upper

228 100

226 32.4 24.4 36.6

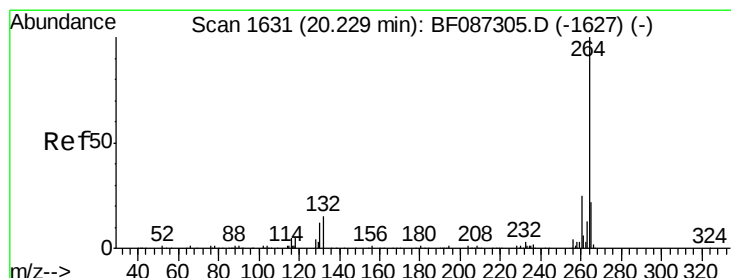
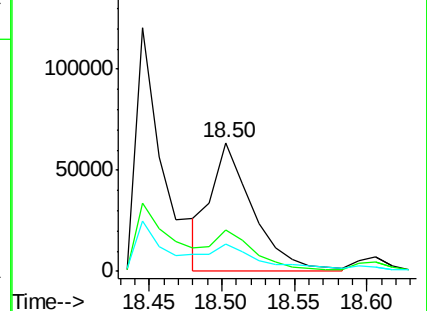
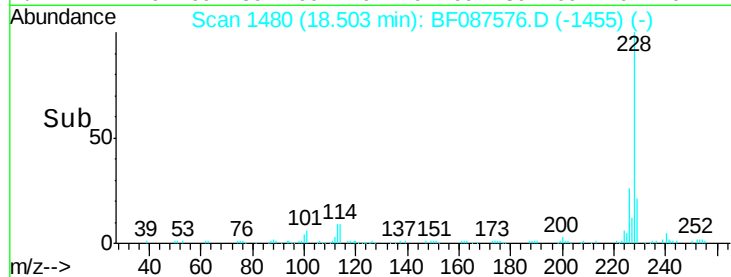
229 21.2 15.8 23.8



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.15 min Scan# 1624

Delta R.T. 0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

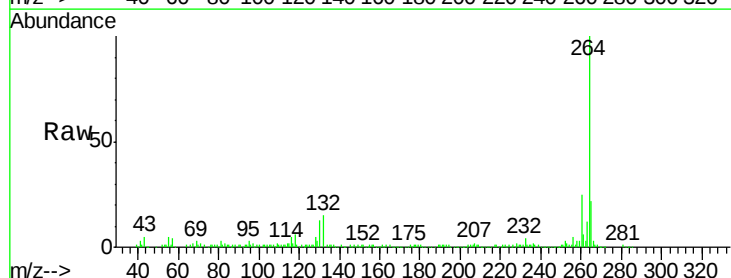
Tgt Ion:264 Resp: 178192

Ion Ratio Lower Upper

264 100

260 25.3 19.5 29.3

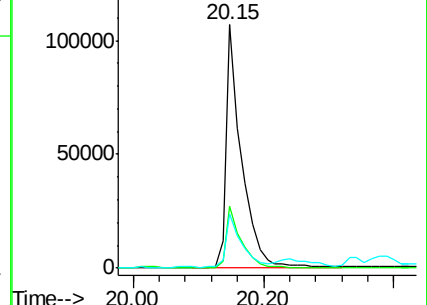
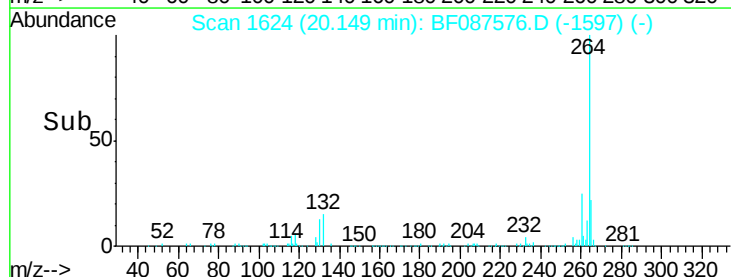
265 22.2 17.3 25.9

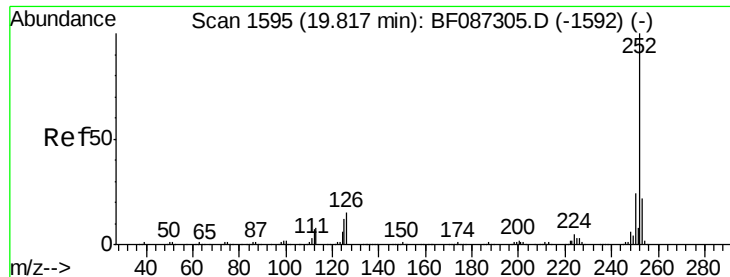


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 24.31 ng

RT: 19.75 min Scan# 1589

Delta R.T. 0.02 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

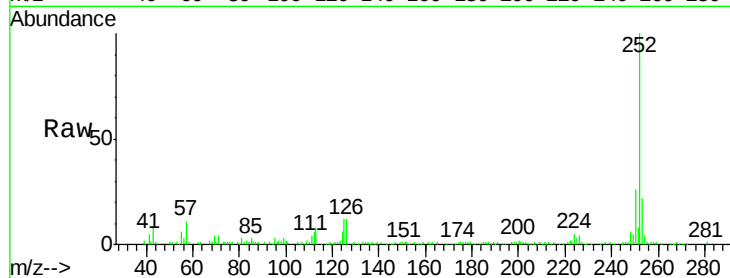
Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

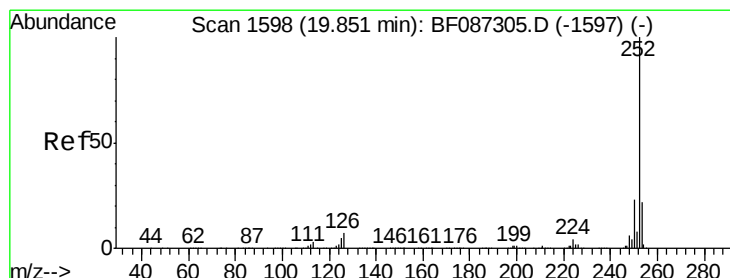
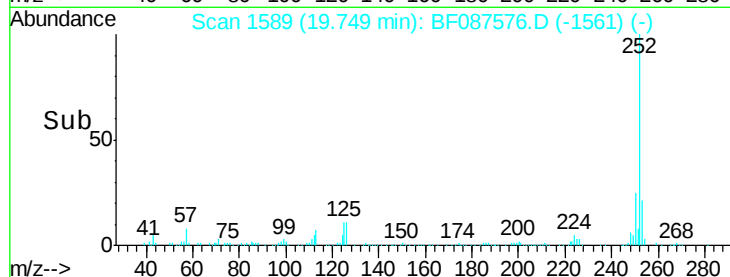
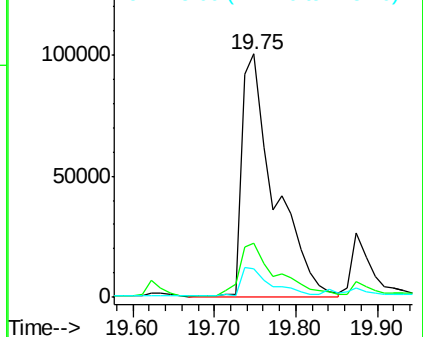
Tgt Ion:	252	Resp:	275958
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.8	26.6
125	11.6	11.4	17.0



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



#88

Benzo(k)fluoranthene

Concen: 28.25 ng

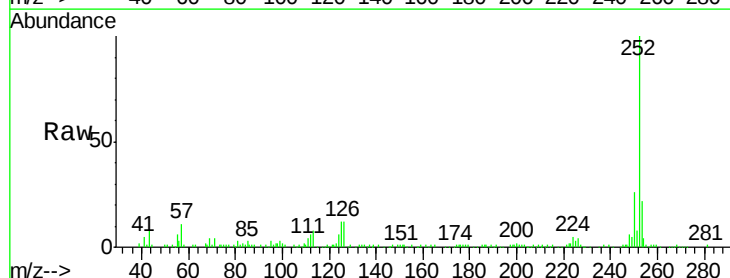
RT: 19.75 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

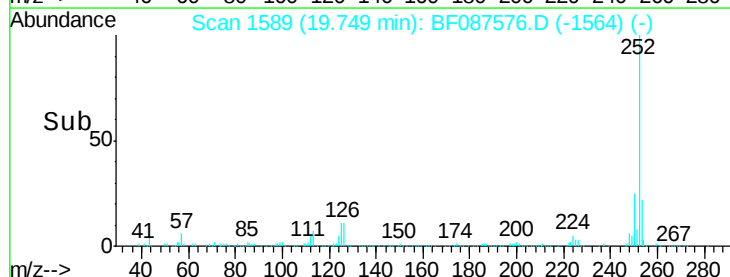
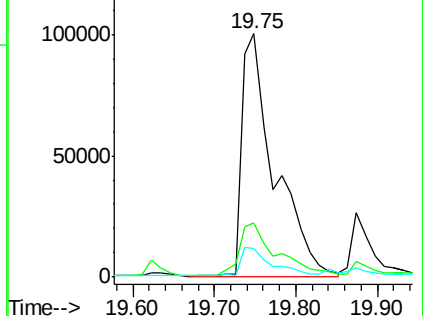
Tgt Ion:	252	Resp:	275958
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.8	26.6
125	11.6	9.1	13.7

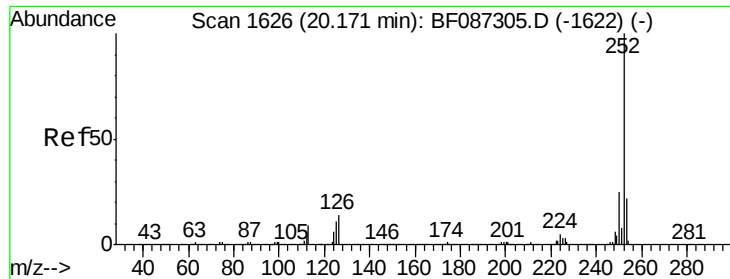


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 12.54 ng

RT: 20.10 min Scan# 1620

Delta R.T. 0.02 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

Instrument :

BNA_F

ClientSampleId :

TA-1304-(0-4)DL

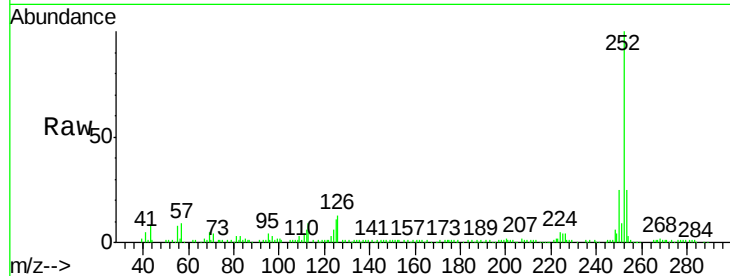
Tgt Ion:252 Resp: 123080

Ion Ratio Lower Upper

252 100

253 25.3 17.2 25.8

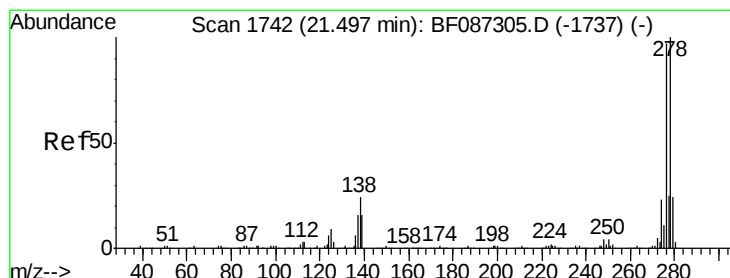
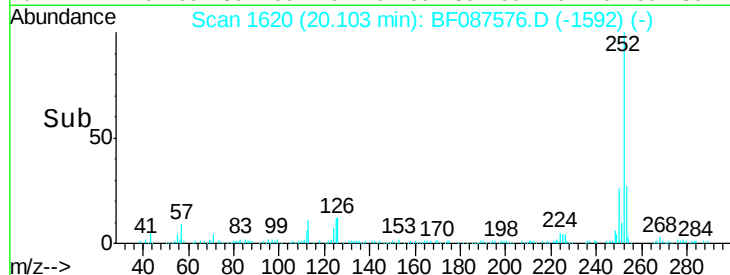
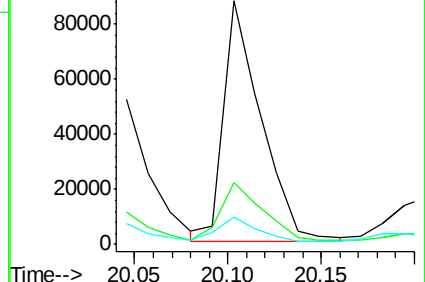
125 11.3 9.0 13.6



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



#90

Dibenzo(a,h)anthracene

Concen: 2.30 ng

RT: 21.44 min Scan# 1737

Delta R.T. 0.08 min

Lab File: BF087576.D

Acq: 31 May 2016 6:11

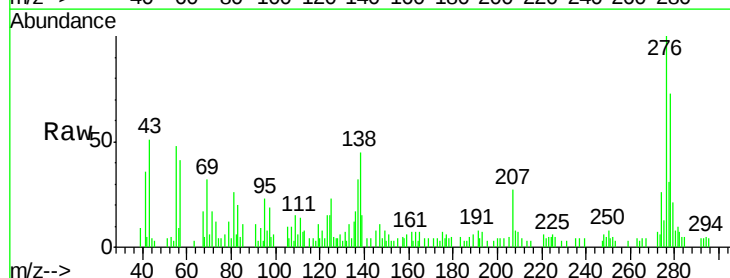
Tgt Ion:278 Resp: 19224

Ion Ratio Lower Upper

278 100

139 21.0 16.6 24.8

279 29.2 19.6 29.4



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

