

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
 Data File : BF087375.D
 Acq On : 25 May 2016 16:44
 Operator : UM/SJ
 Sample : H3218-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-2(8.5-9)

Quant Time: May 25 22:29:24 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	7.52	152	112784	20.00	ng	0.00
21) Naphthalene-d8	9.55	136	444031	20.00	ng	0.00
38) Acenaphthene-d10	12.38	164	187882	20.00	ng	-0.01
63) Phenanthrene-d10	14.78	188	298721	20.00	ng	0.00
75) Chrysene-d12	18.47	240	242375	20.00	ng	-0.01
86) Perylene-d12	20.14	264	183148	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	1035749	161.37	ng	0.01
7) Phenol-d6	7.06	99	1341934	154.73	ng	-0.01
23) Nitrobenzene-d5	8.43	82	846465	96.08	ng	-0.01
41) 2,4,6-Tribromophenol	13.67	330	218281	120.90	ng	-0.01
44) 2-Fluorobiphenyl	11.32	172	1116436	83.77	ng	-0.01
78) Terphenyl-d14	17.13	244	667936	58.59	ng	0.00

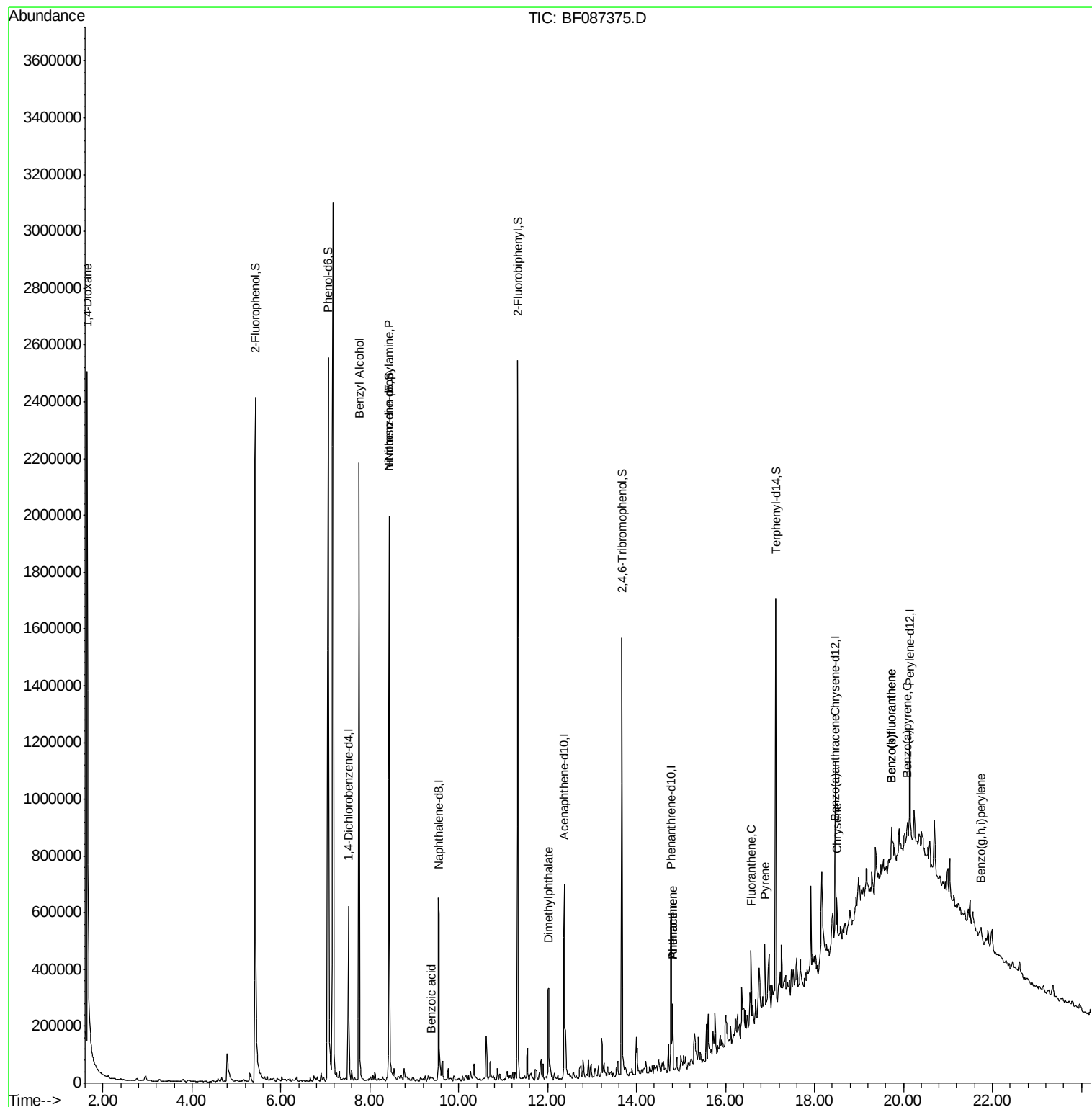
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.64	88	77230	22.80	ng	# 22
15) Benzyl Alcohol	7.76	79	15272	2.42	ng	# 36
19) n-Nitroso-di-n-propylamine	8.43	70	120164	18.58	ng	# 73
32) Benzoic acid	9.39	122	2018	6.35	ng	# 53
49) Dimethylphthalate	12.02	163	194276	12.91	ng	99
70) Phenanthrene	14.81	178	124934	7.55	ng	98
71) Anthracene	14.81	178	124934	7.47	ng	98
74) Fluoranthene	16.57	202	121199	7.30	ng	95
77) Pyrene	16.88	202	115450	6.62	ng	97
80) Benzo(a)anthracene	18.46	228	71909	5.22	ng	# 91
82) Chrysene	18.50	228	65977	4.82	ng	# 91
87) Benzo(b)fluoranthene	19.74	252	73053	6.26	ng	# 80
88) Benzo(k)fluoranthene	19.74	252	73053	7.27	ng	# 78
89) Benzo(a)pyrene	20.09	252	36972	3.66	ng	# 74
91) Benzo(g,h,i)perylene	21.75	276	19326	2.28	ng	# 88

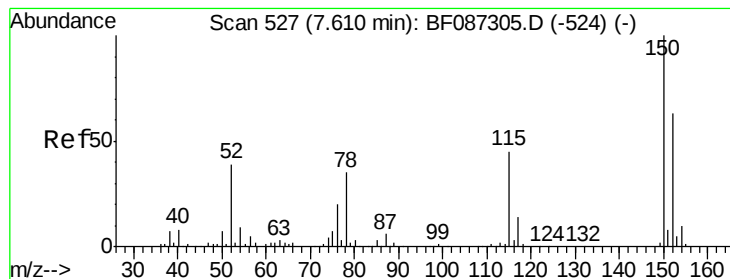
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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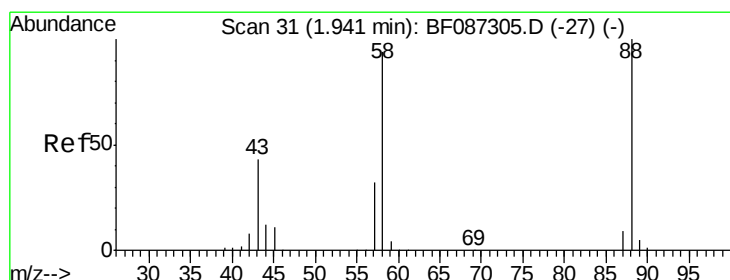
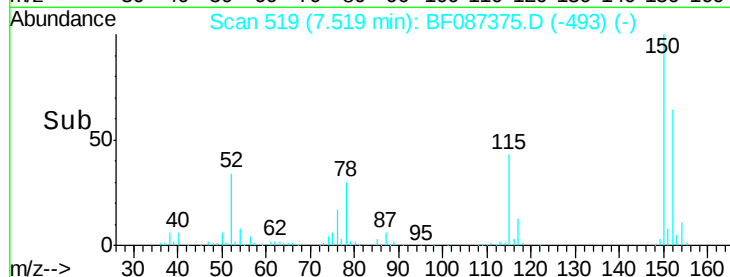
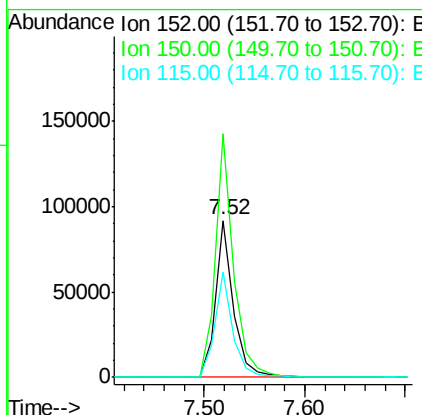
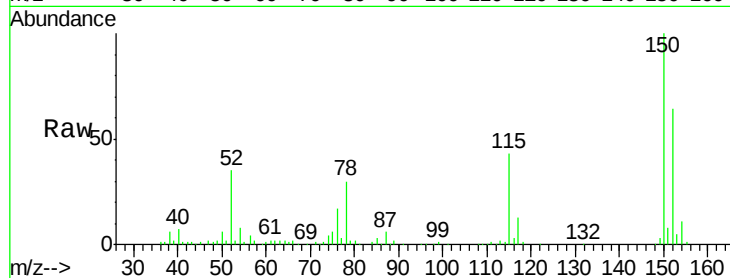




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.52 min Scan# 519
 Delta R.T. -0.00 min
 Lab File: BF087375.D
 Acq: 25 May 2016 16:44

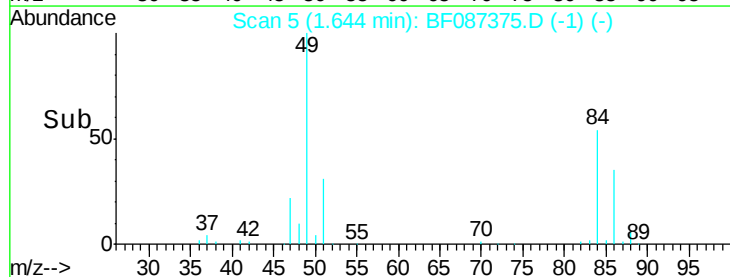
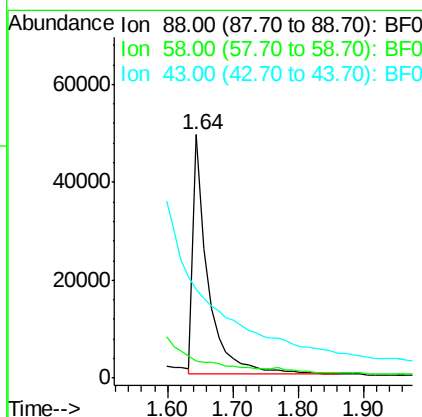
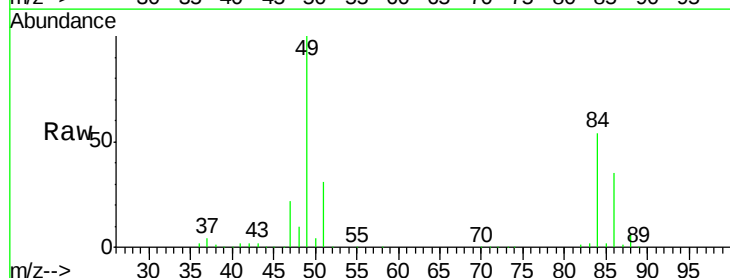
Instrument :
 BNA_F
 ClientSampleId :
 E-2(8.5-9)

Tgt Ion: 152 Resp: 112784
 Ion Ratio Lower Upper
 152 100
 150 155.5 125.8 188.6
 115 67.0 51.5 77.3



#2
 1,4-Dioxane
 Concen: 22.80 ng
 RT: 1.64 min Scan# 5
 Delta R.T. -0.17 min
 Lab File: BF087375.D
 Acq: 25 May 2016 16:44

Tgt Ion: 88 Resp: 77230
 Ion Ratio Lower Upper
 88 100
 58 0.0 59.6 89.4#
 43 0.0 21.8 32.6#





#5

2-Fluorophenol

Concen: 161.37 ng

RT: 5.43 min Scan# 336

Delta R.T. 0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

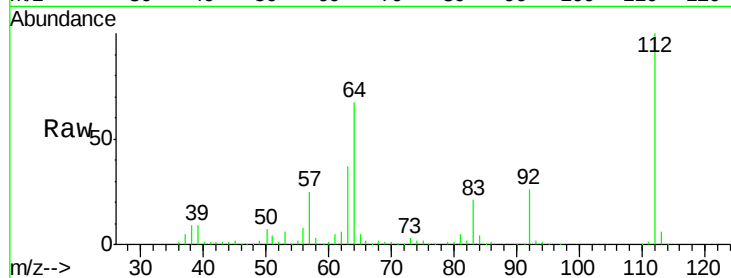
Tgt Ion:112 Resp: 1035749

Ion Ratio Lower Upper

112 100

64 66.6 52.1 78.1

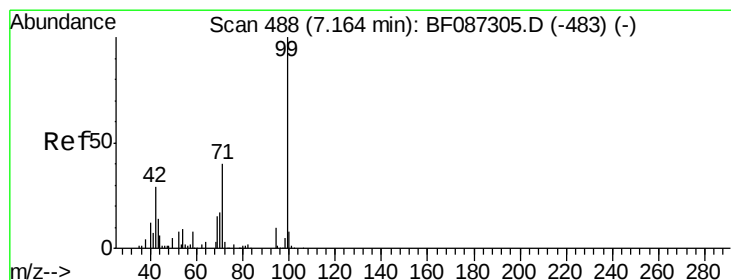
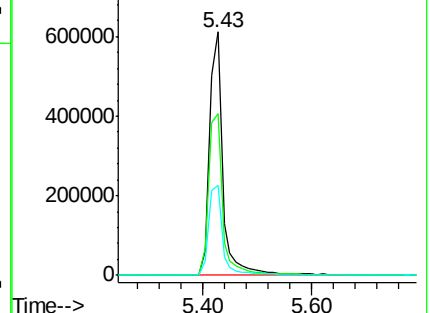
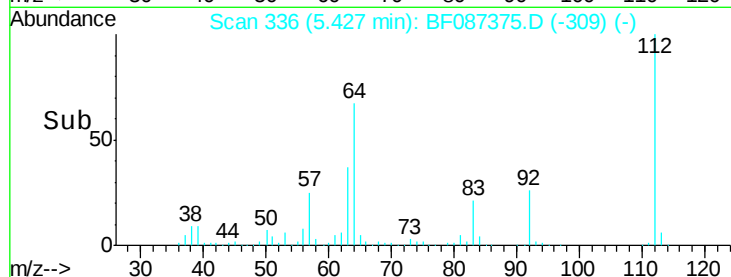
63 36.7 25.7 38.5



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: 154.73 ng

RT: 7.06 min Scan# 479

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

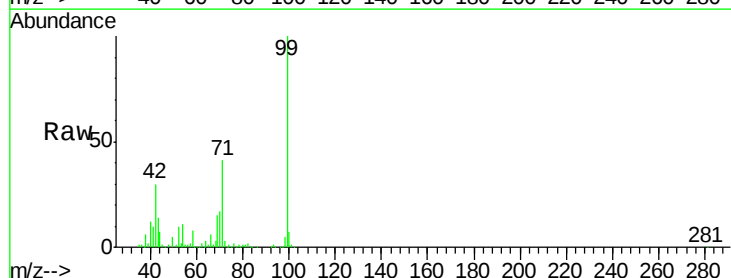
Tgt Ion: 99 Resp: 1341934

Ion Ratio Lower Upper

99 100

42 30.4 13.6 20.4#

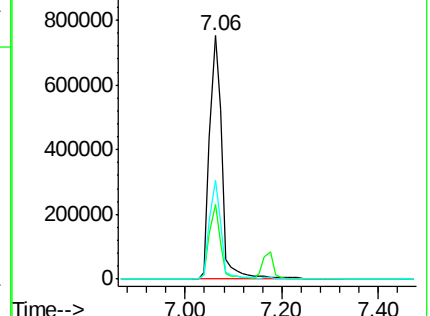
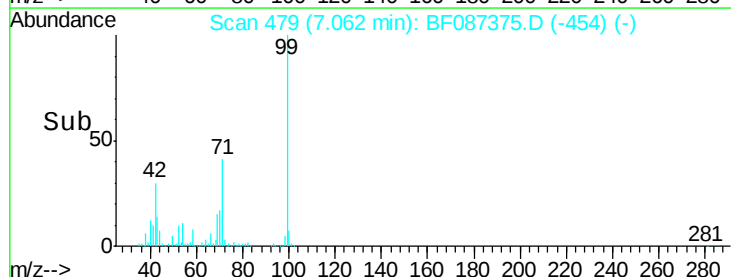
71 40.8 24.6 36.8#

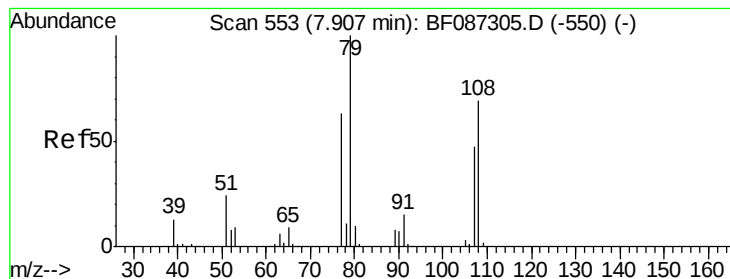


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#15

Benzyl Alcohol

Concen: 2.42 ng

RT: 7.76 min Scan# 540

Delta R.T. -0.06 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

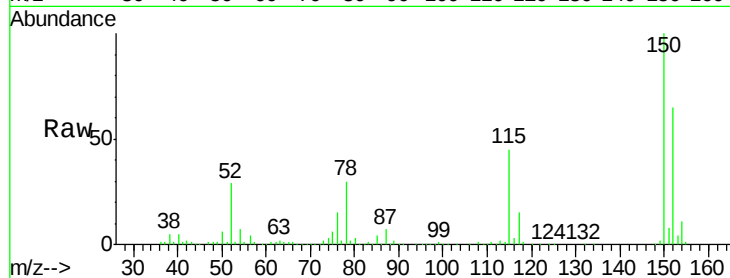
Tgt Ion: 79 Resp: 15272

Ion Ratio Lower Upper

79 100

108 33.3 68.4 102.6#

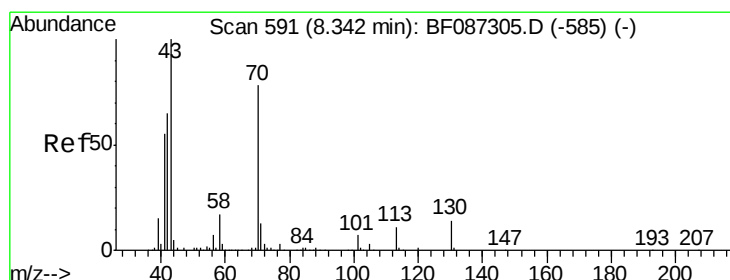
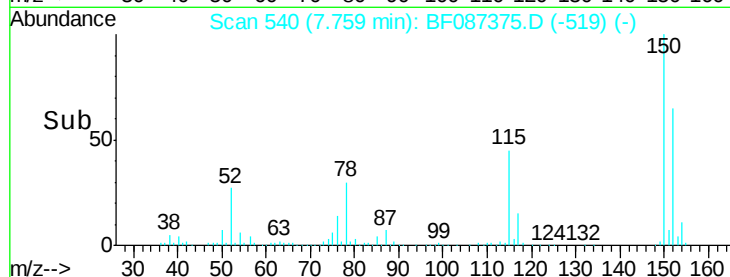
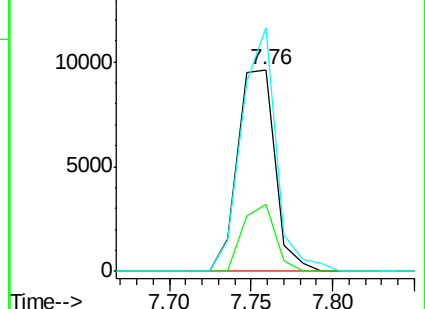
77 120.8 50.6 76.0#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 18.58 ng

RT: 8.43 min Scan# 599

Delta R.T. 0.18 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Tgt Ion: 70 Resp: 120164

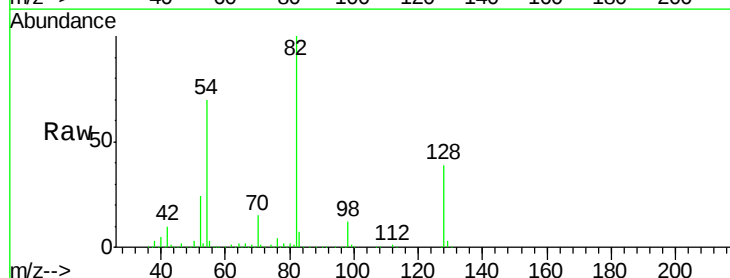
Ion Ratio Lower Upper

70 100

42 67.5 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

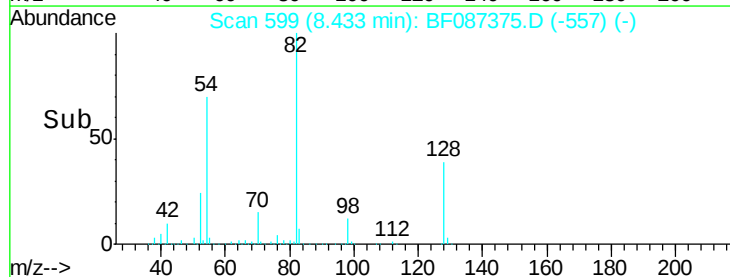
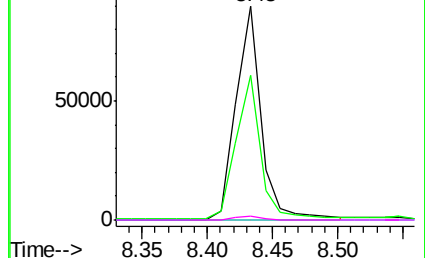


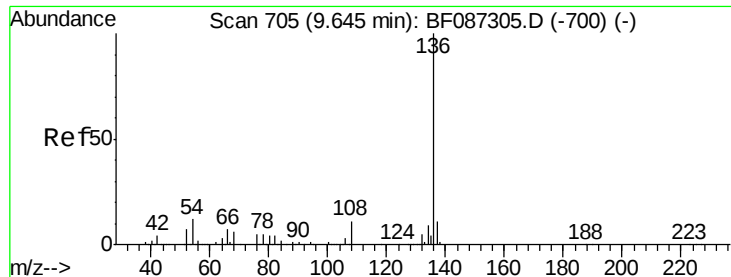
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

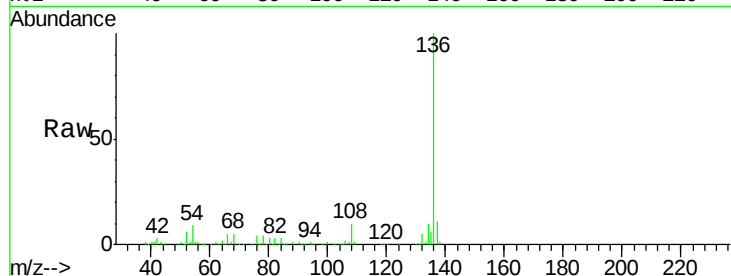




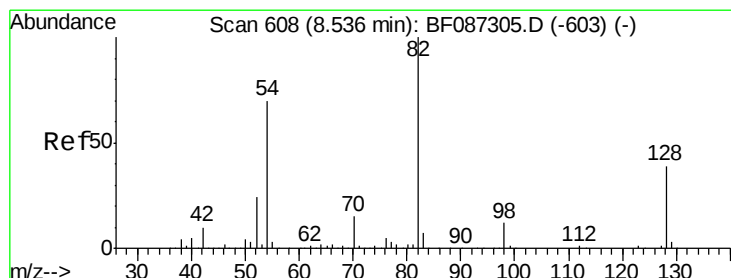
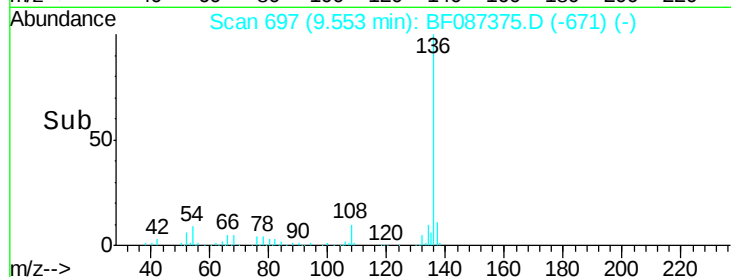
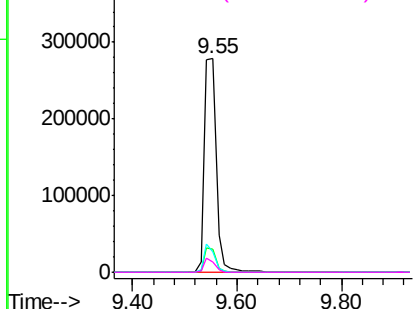
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.00 min
Lab File: BF087375.D
Acq: 25 May 2016 16:44

Instrument :
BNA_F
ClientSampleId :
E-2(8.5-9)

Tgt Ion:	136	Resp:	444031
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	9.4	5.0	7.4#
68	4.9	4.4	6.6

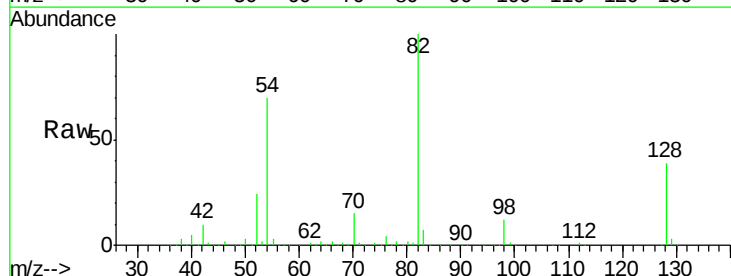


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

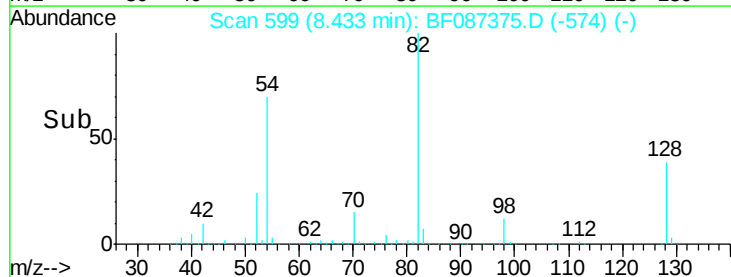
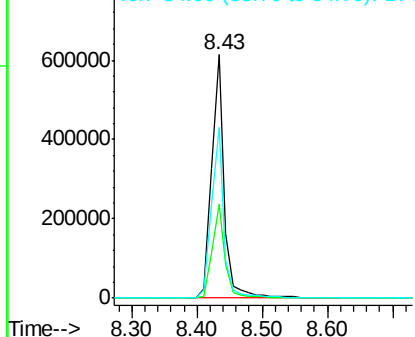


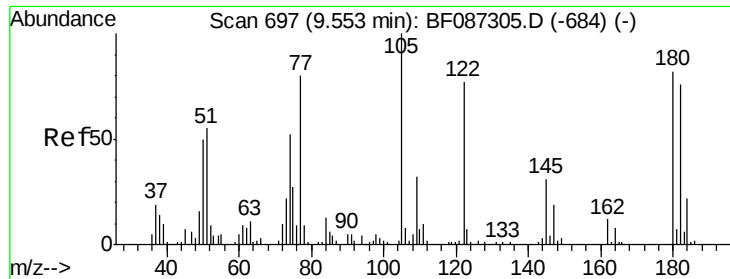
#23
Nitrobenzene-d5
Concen: 96.08 ng
RT: 8.43 min Scan# 599
Delta R.T. -0.01 min
Lab File: BF087375.D
Acq: 25 May 2016 16:44

Tgt Ion:	82	Resp:	846465
Ion	Ratio	Lower	Upper
82	100		
128	38.8	40.6	61.0#
54	69.9	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





#32

Benzoic acid

Concen: 6.35 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.06 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

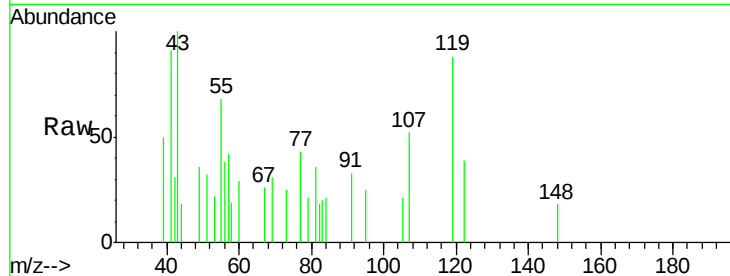
Tgt Ion:122 Resp: 2018

Ion Ratio Lower Upper

122 100

105 52.2 92.6 132.6#

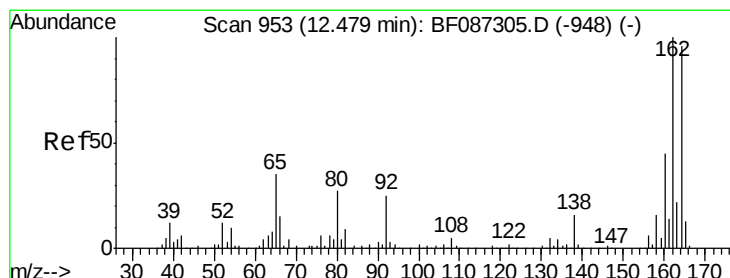
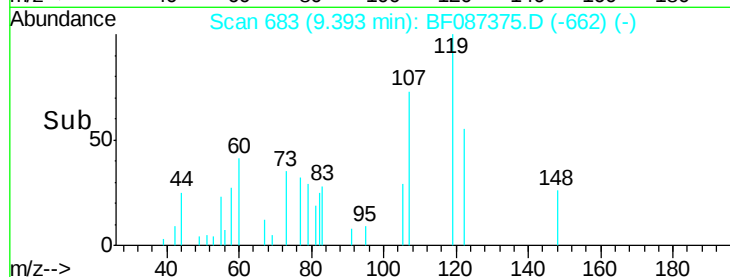
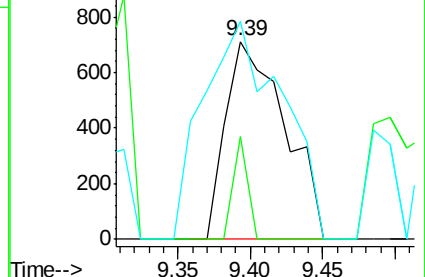
77 110.0 60.0 100.0#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.38 min Scan# 944

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

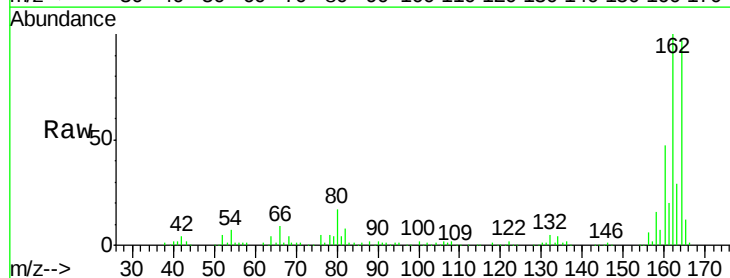
Tgt Ion:164 Resp: 187882

Ion Ratio Lower Upper

164 100

162 103.2 82.8 124.2

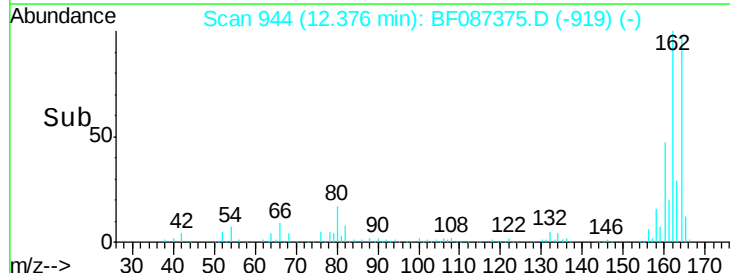
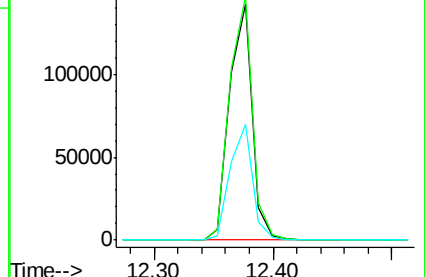
160 48.9 36.9 55.3

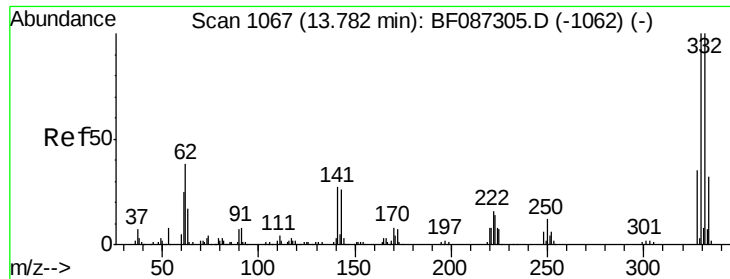


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

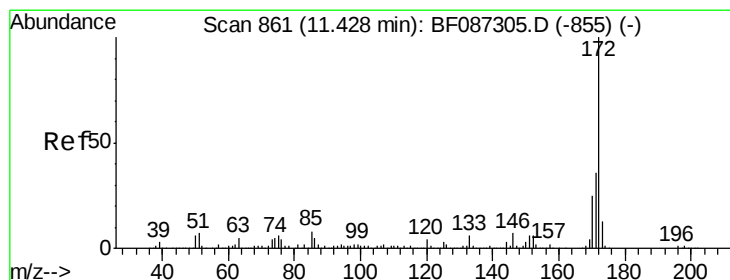
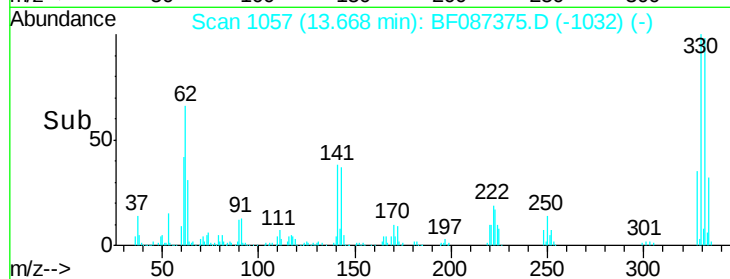
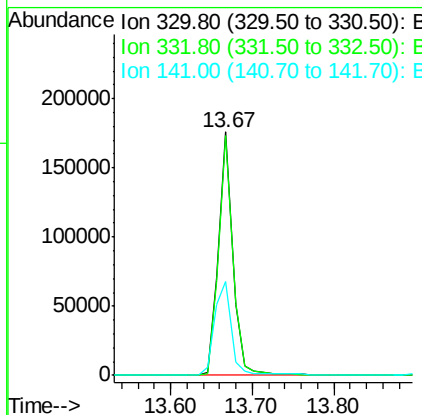
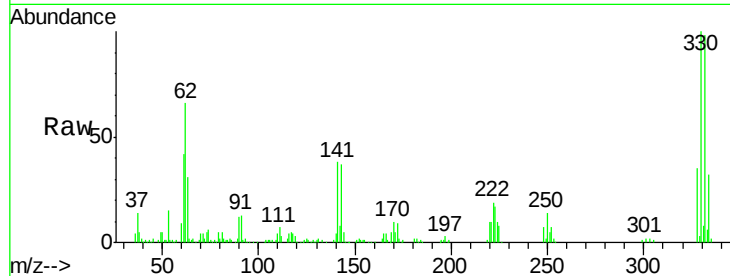




#41
 2,4,6-Tribromophenol
 Concen: 120.90 ng
 RT: 13.67 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: BF087375.D
 Acq: 25 May 2016 16:44

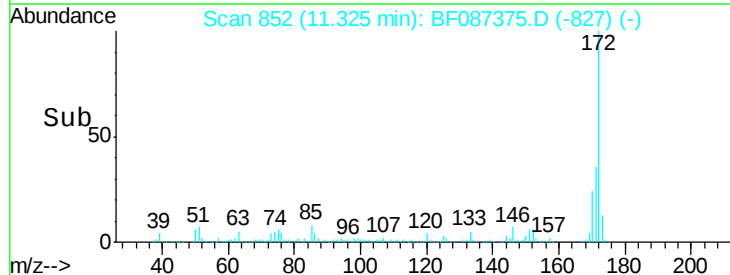
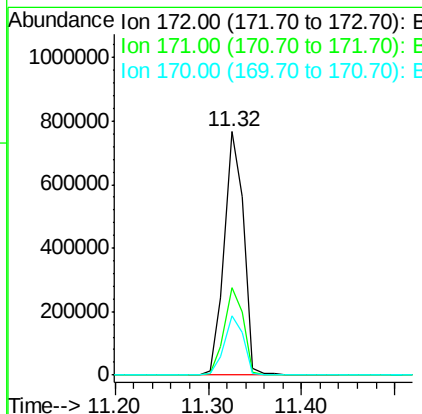
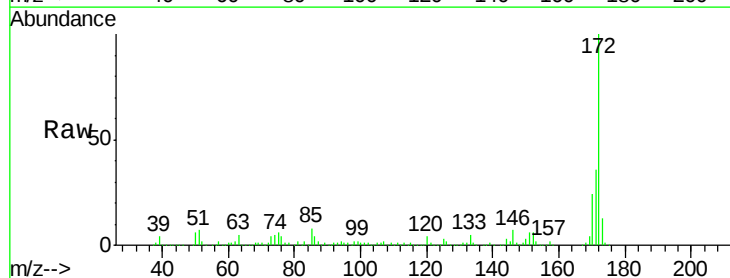
Instrument :
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 E-2(8.5-9)

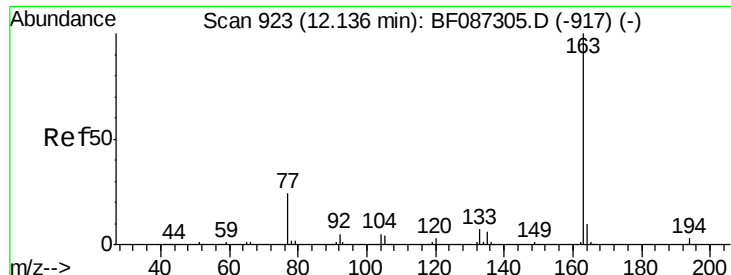
Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.5	79.0	118.4
141	46.7	31.2	46.8



#44
 2-Fluorobiphenyl
 Concen: 83.77 ng
 RT: 11.32 min Scan# 852
 Delta R.T. -0.01 min
 Lab File: BF087375.D
 Acq: 25 May 2016 16:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.6
170	24.4	19.8	29.8

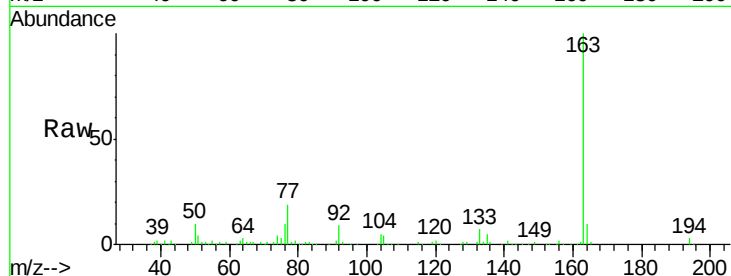




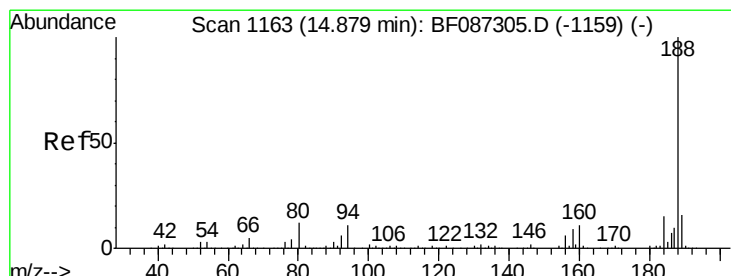
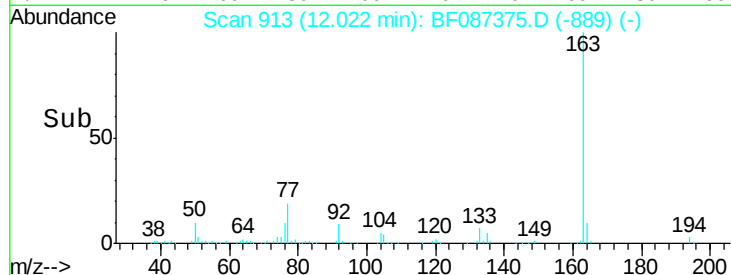
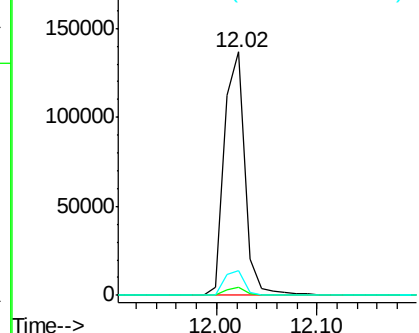
#49
Dimethylphthalate
Concen: 12.91 ng
RT: 12.02 min Scan# 913
Delta R.T. -0.02 min
Lab File: BF087375.D
Acq: 25 May 2016 16:44

Instrument :
BNA_F
ClientSampleId :
E-2(8.5-9)

Tgt Ion:163 Resp: 194276
Ion Ratio Lower Upper
163 100
194 3.3 2.6 4.0
164 10.0 8.2 12.4

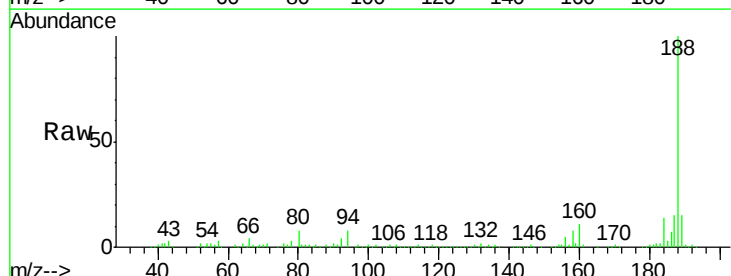


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

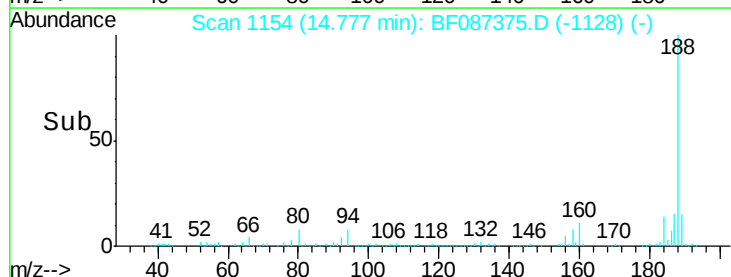
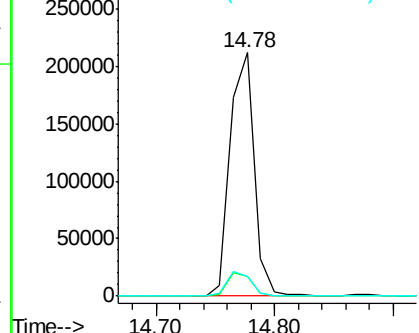


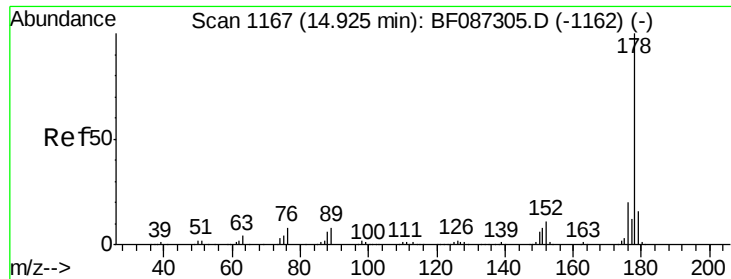
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BF087375.D
Acq: 25 May 2016 16:44

Tgt Ion:188 Resp: 298721
Ion Ratio Lower Upper
188 100
94 8.2 6.8 10.2
80 8.2 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: 7.55 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

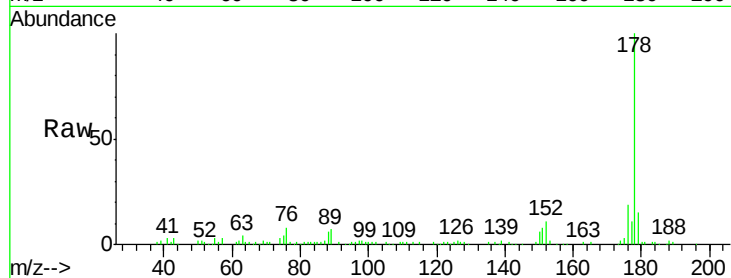
Tgt Ion:178 Resp: 124934

Ion Ratio Lower Upper

178 100

176 18.6 16.0 24.0

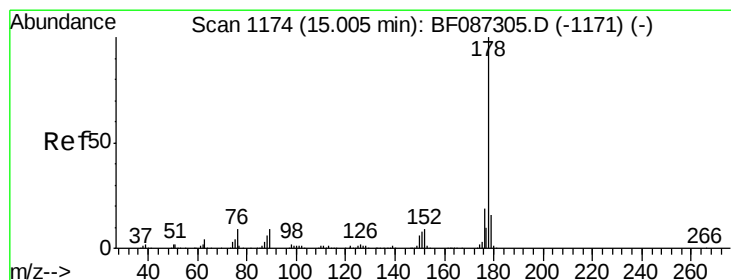
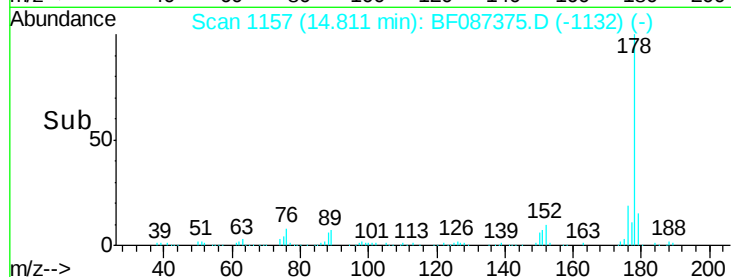
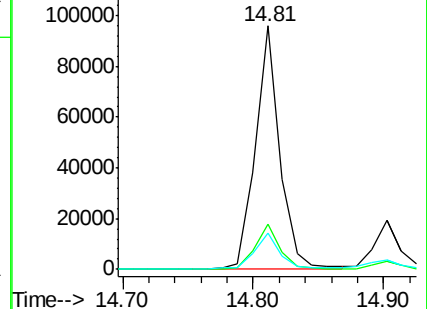
179 15.1 12.6 18.8



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



#71

Anthracene

Concen: 7.47 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.09 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

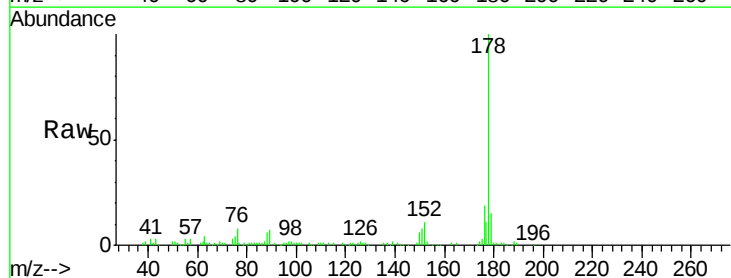
Tgt Ion:178 Resp: 124934

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

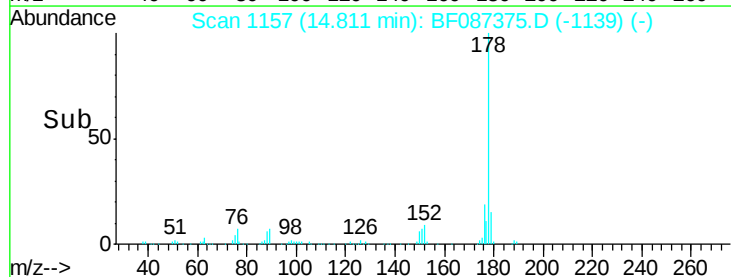
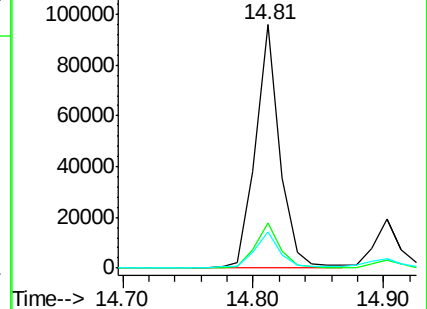
179 15.1 12.7 19.1

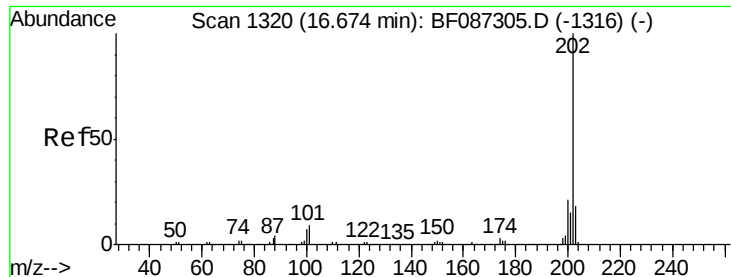


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.30 ng

RT: 16.57 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

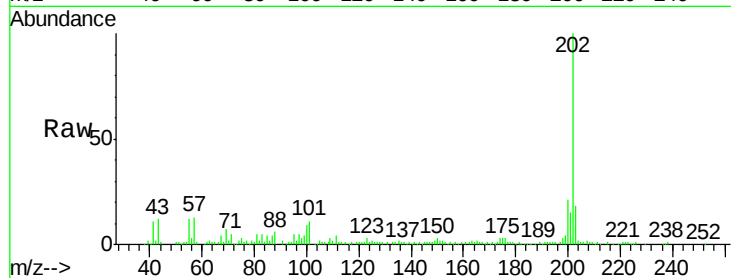
Instrument :

BNA_F

ClientSampled :

E-2(8.5-9)

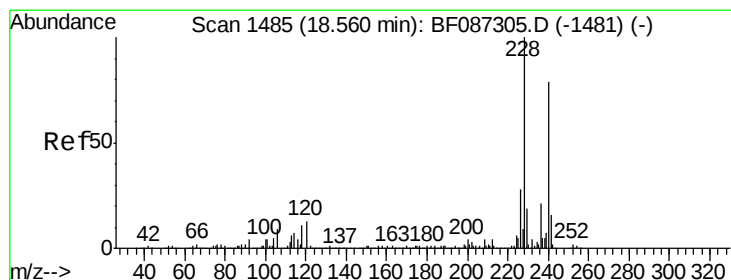
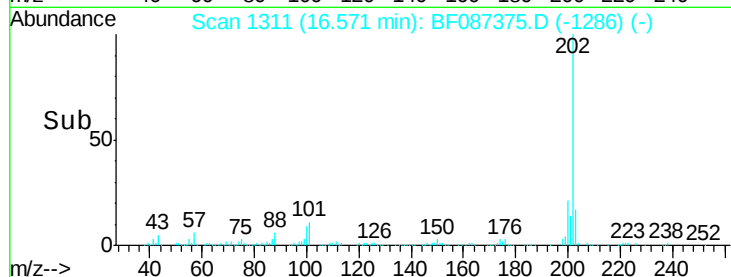
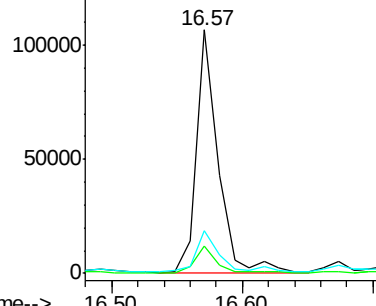
Tgt Ion:	202	Resp:	121199
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	35.4
203	17.7	0.0	38.1



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

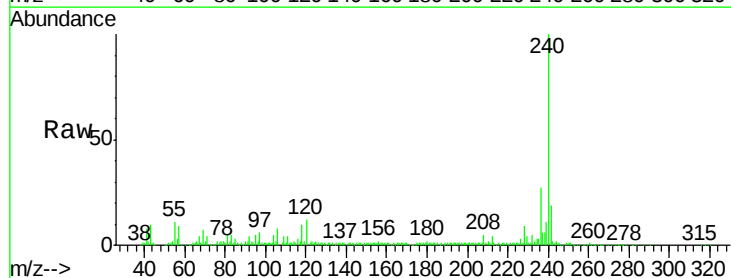
RT: 18.47 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

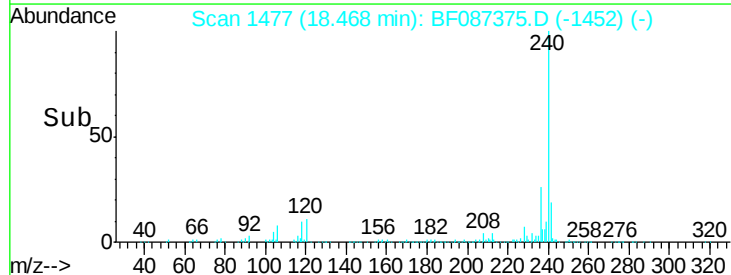
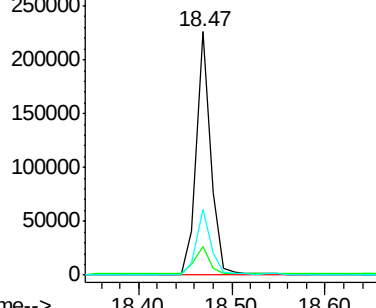
Tgt Ion:	240	Resp:	242375
Ion	Ratio	Lower	Upper
240	100		
120	11.5	11.2	16.8
236	26.8	21.2	31.8

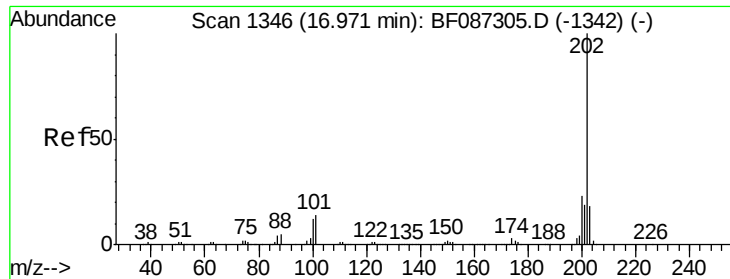


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 6.62 ng

RT: 16.88 min Scan# 1338

Delta R.T. -0.00 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

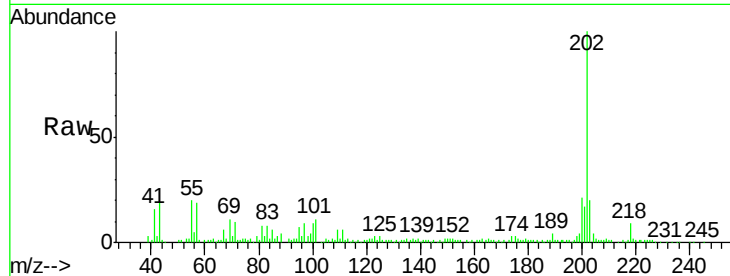
Tgt Ion:202 Resp: 115450

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

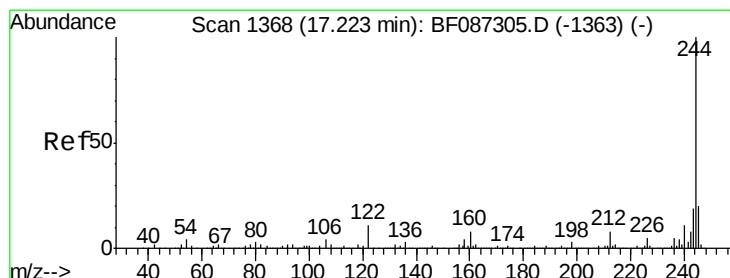
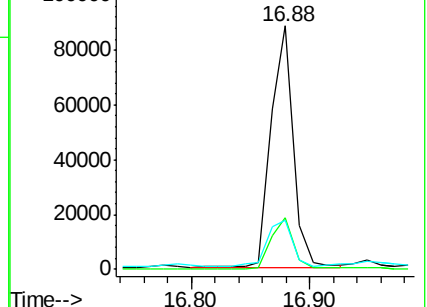
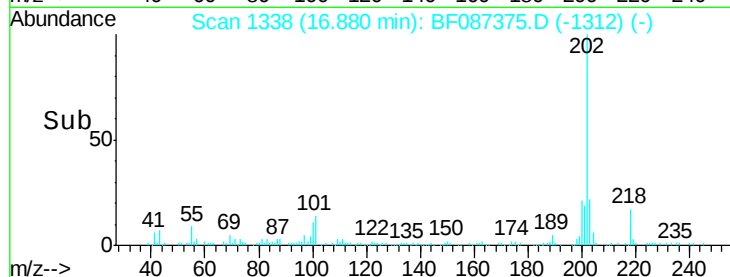
203 20.0 14.2 21.4



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: 58.59 ng

RT: 17.13 min Scan# 1360

Delta R.T. -0.00 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

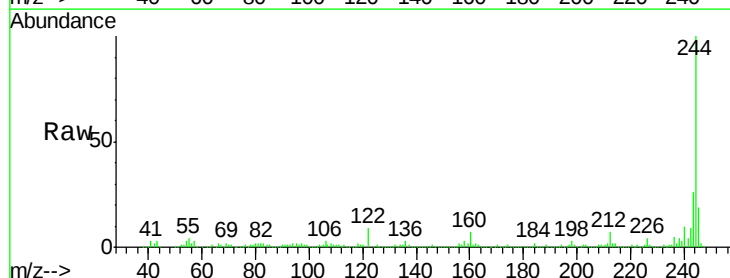
Tgt Ion:244 Resp: 667936

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

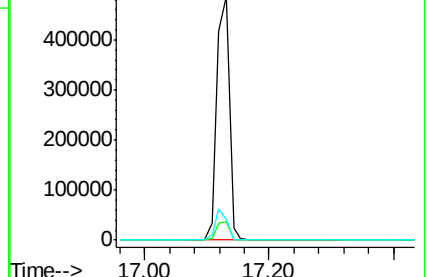
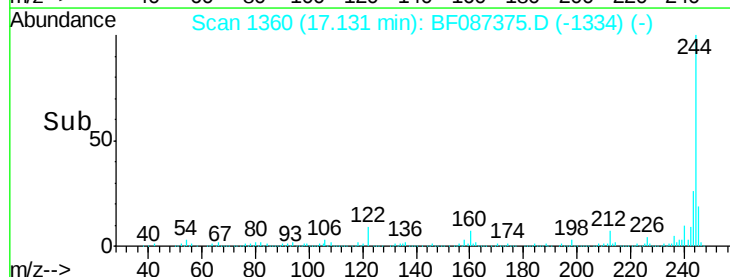
122 8.8 12.0 18.0#

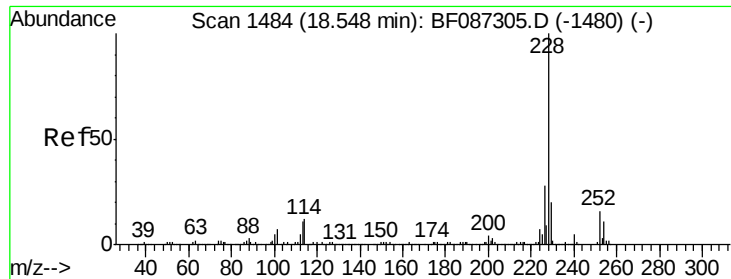


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.22 ng

RT: 18.46 min Scan# 1476

Delta R.T. -0.00 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

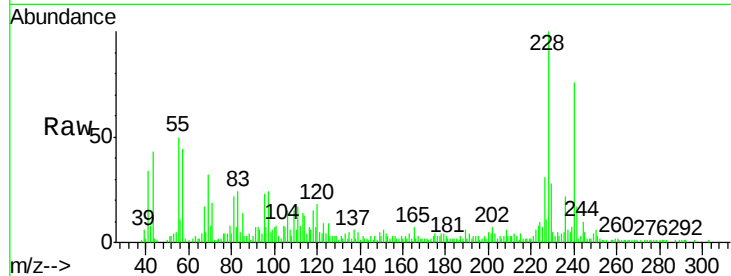
Tgt Ion:228 Resp: 71909

Ion Ratio Lower Upper

228 100

226 30.5 22.5 33.7

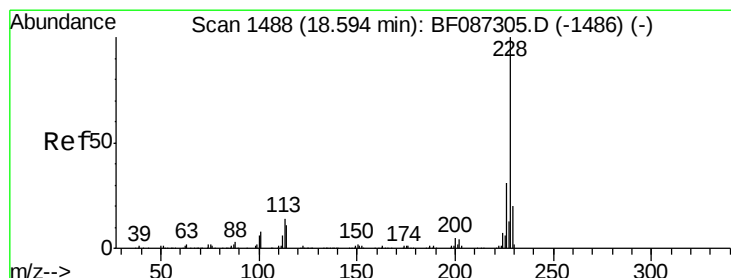
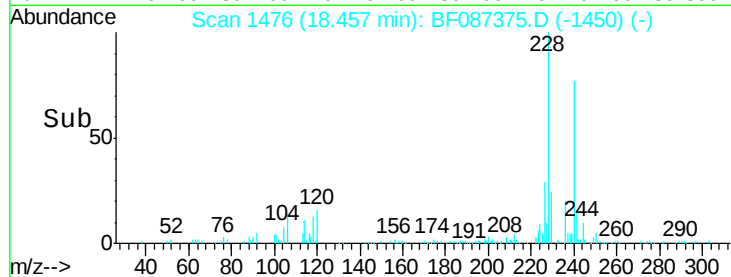
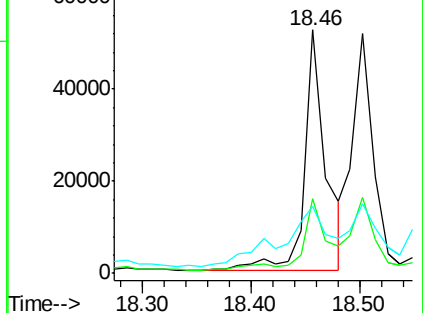
229 27.8 16.6 25.0#



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



#82

Chrysene

Concen: 4.82 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

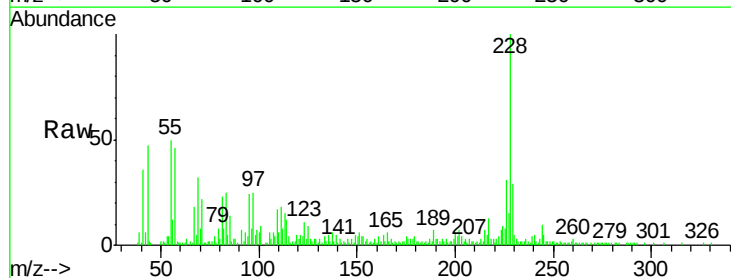
Tgt Ion:228 Resp: 65977

Ion Ratio Lower Upper

228 100

226 31.4 24.4 36.6

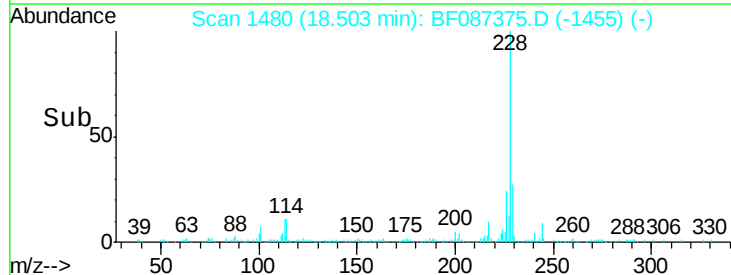
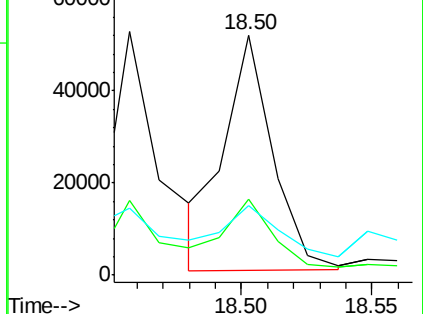
229 29.0 15.8 23.8#

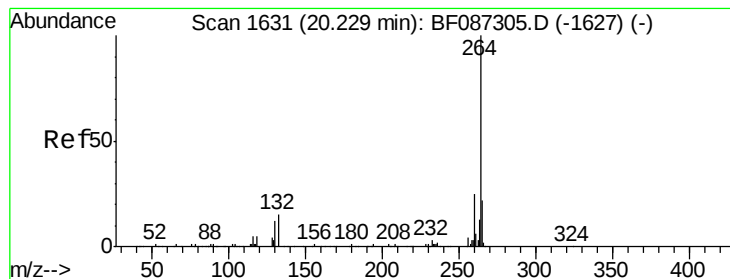


Abundance Ion 228.00 (227.70 to 228.70): E

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: 20.14 min Scan# 1623

Delta R.T. -0.00 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

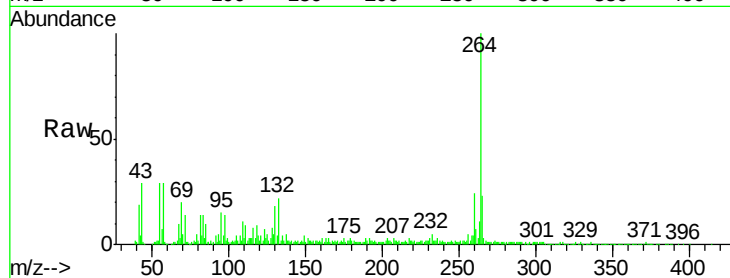
Tgt Ion:264 Resp: 183148

Ion Ratio Lower Upper

264 100

260 24.5 19.5 29.3

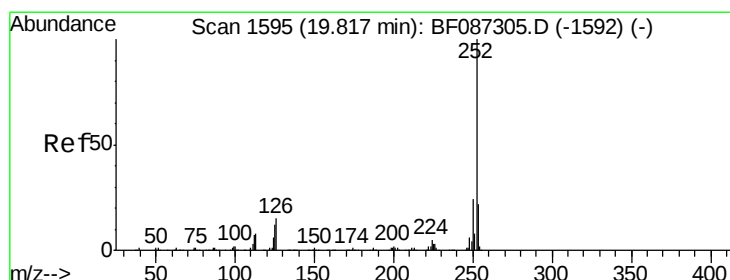
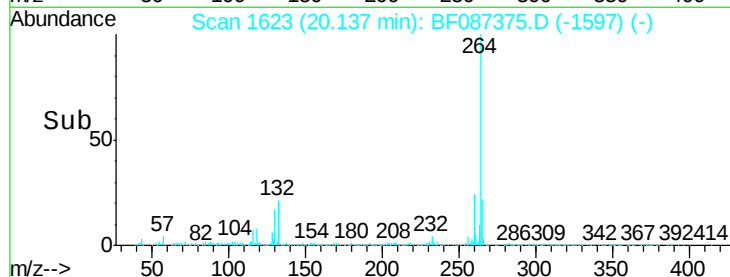
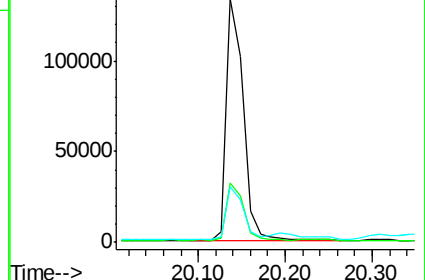
265 23.0 17.3 25.9



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: 6.26 ng

RT: 19.74 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

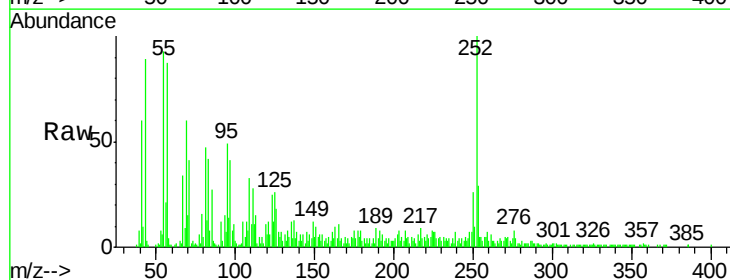
Tgt Ion:252 Resp: 73053

Ion Ratio Lower Upper

252 100

253 28.9 17.8 26.6#

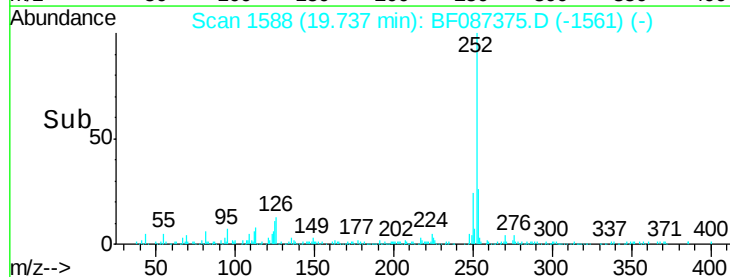
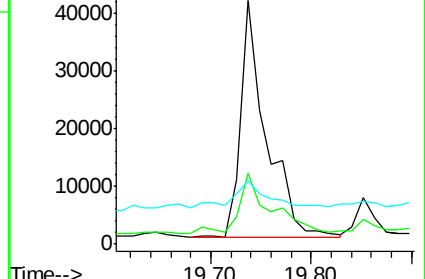
125 25.8 11.4 17.0#

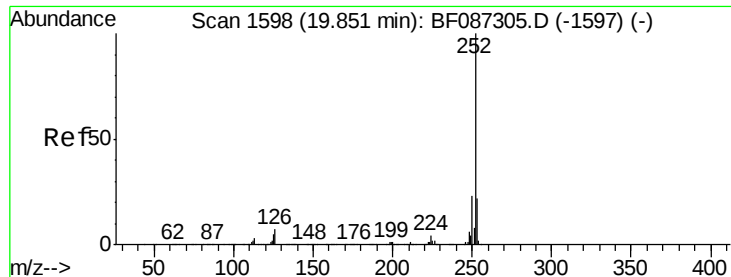


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 7.27 ng

RT: 19.74 min Scan# 1588

Delta R.T. -0.02 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

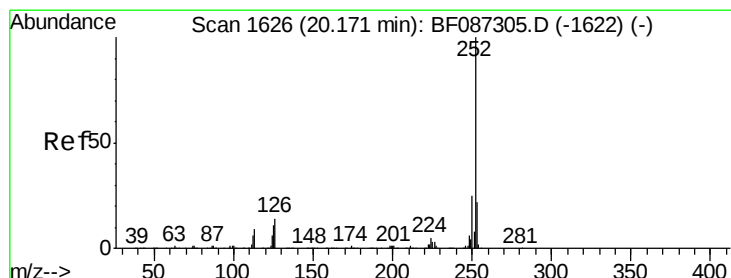
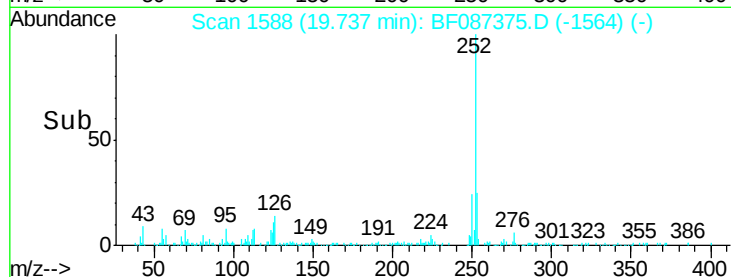
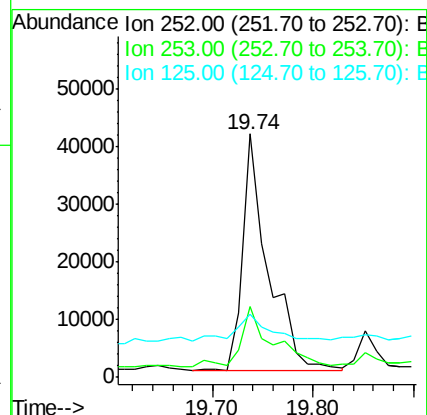
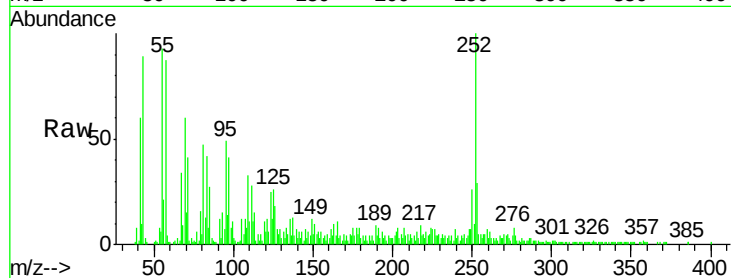
Tgt Ion:252 Resp: 73053

Ion Ratio Lower Upper

252 100

253 28.9 17.8 26.6#

125 25.8 9.1 13.7#



#89

Benzo(a)pyrene

Concen: 3.66 ng

RT: 20.09 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

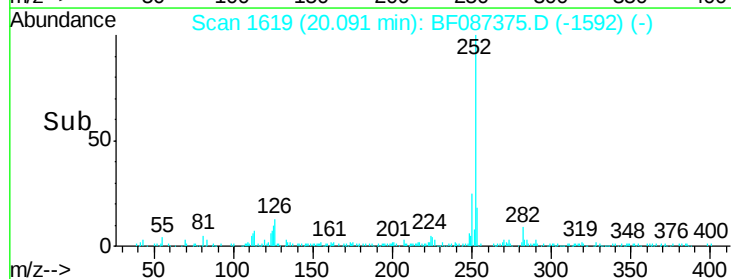
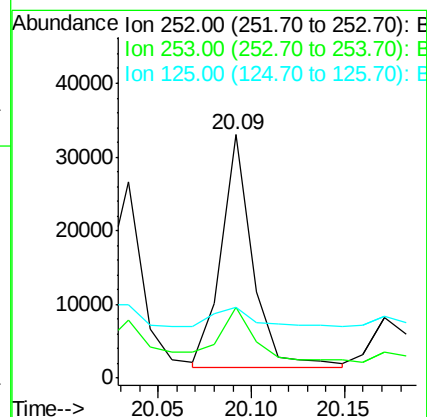
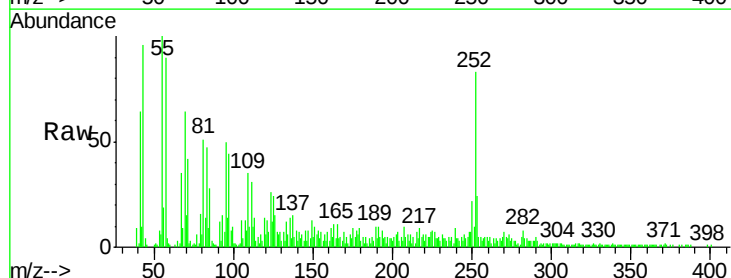
Tgt Ion:252 Resp: 36972

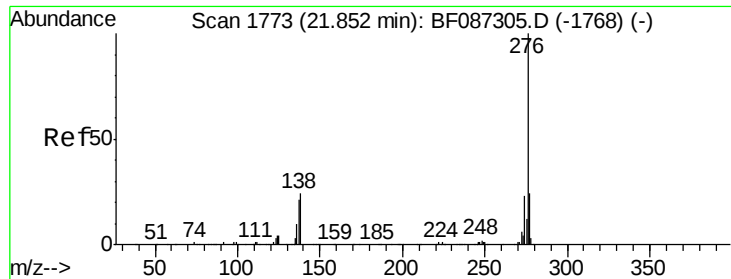
Ion Ratio Lower Upper

252 100

253 28.9 17.2 25.8#

125 29.2 9.0 13.6#





#91

Benzo(g,h,i)perylene

Concen: 2.28 ng

RT: 21.75 min Scan# 1764

Delta R.T. 0.03 min

Lab File: BF087375.D

Acq: 25 May 2016 16:44

Instrument :

BNA_F

ClientSampleId :

E-2(8.5-9)

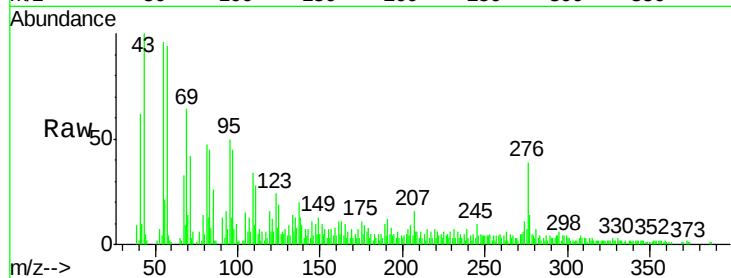
Tgt Ion: 276 Resp: 19326

Ion Ratio Lower Upper

276 100

277 34.9 19.6 29.4#

138 32.4 23.6 35.4



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

