

Data Path : Z:\HPCHEM1\BNA_E\Data\BE011416\
 Data File : BE091367.D
 Acq On : 15 Jan 2016 1:26
 Operator : UM/IZ
 Sample : H1123-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001

Quant Time: Jan 15 02:18:28 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	21044	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	84448	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	44841	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	129173	5.00	ng	0.00
18) Chrysene-d12	20.22	240	128344	5.00	ng	0.00
24) Perylene-d12	22.10	264	110773	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.92	112	17467	5.70	ng	-0.03
3) Phenol-d6	6.55	99	31564	5.73	ng	-0.02
5) Nitrobenzene-d5	8.17	82	21352	4.36	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	5418	3.74	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	46902	4.84	ng	0.00
20) Terphenyl-d14	18.62	244	87605	4.79	ng	0.00

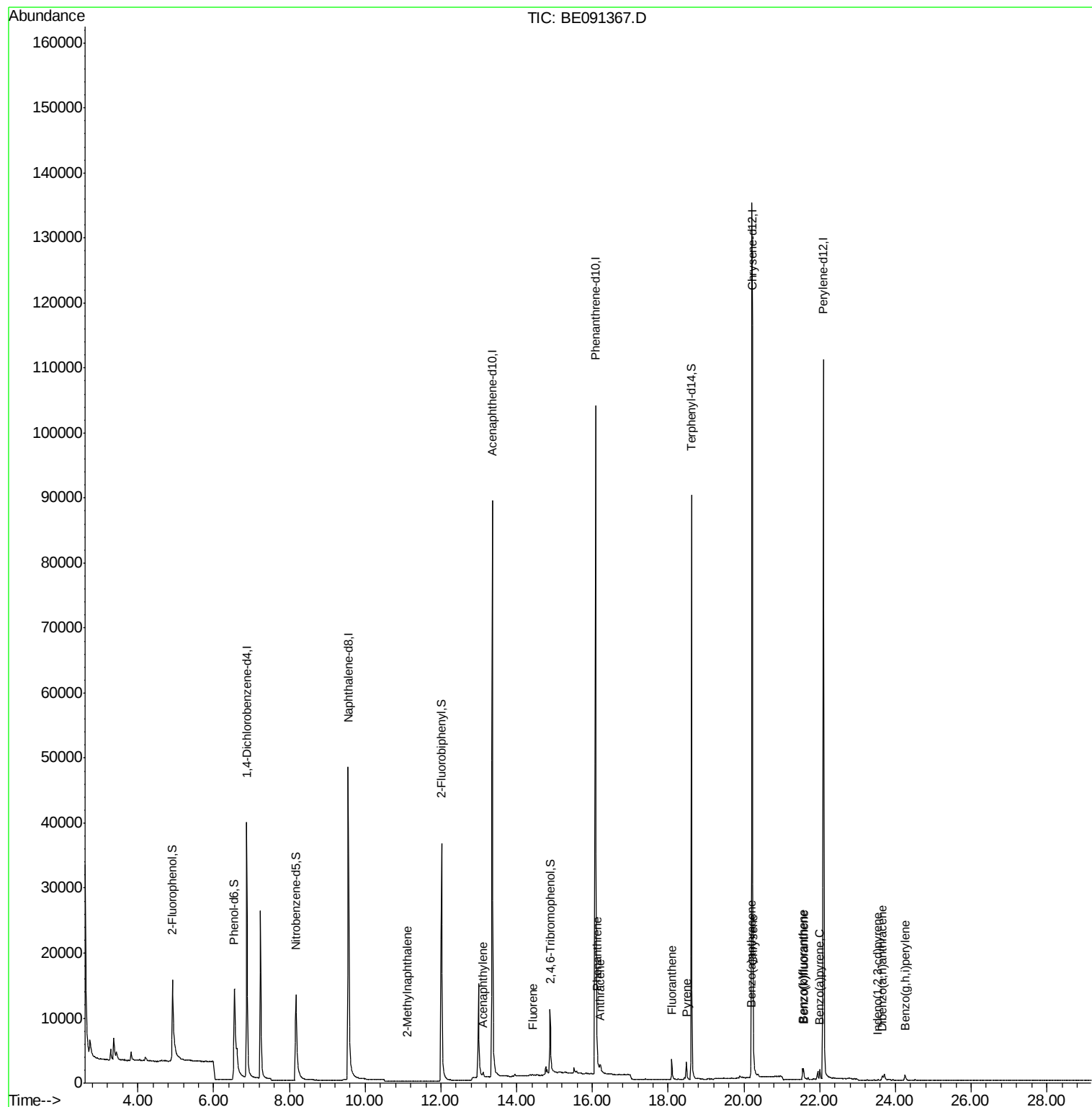
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) 2-Methylnaphthalene	11.13	142	7	0.37	ng	# 62
11) Acenaphthylene	13.12	152	1041	0.28	ng	# 84
13) Fluorene	14.42	166	146	0.14	ng	# 75
15) Phenanthrene	16.12	178	3033	0.09	ng	# 93
16) Anthracene	16.21	178	694	0.26	ng	# 86
17) Fluoranthene	18.10	202	3423	0.37	ng	99
19) Pyrene	18.48	202	2758	0.47	ng	99
21) Benzo(a)anthracene	20.19	228	1892	0.45	ng	94
22) Chrysene	20.25	228	3076	0.10	ng	94
23) Indeno(1,2,3-cd)pyrene	23.54	276	142	0.35	ng	97
25) Benzo(b)fluoranthene	21.55	252	1659	0.34	ng	# 84
26) Benzo(k)fluoranthene	21.58	252	1795	0.32	ng	# 85
27) Benzo(a)pyrene	22.01	252	1714	0.32	ng	# 84
28) Dibenzo(a,h)anthracene	23.65	278	853	0.47	ng	# 70
29) Benzo(g,h,i)perylene	24.25	276	1474	0.39	ng	# 86

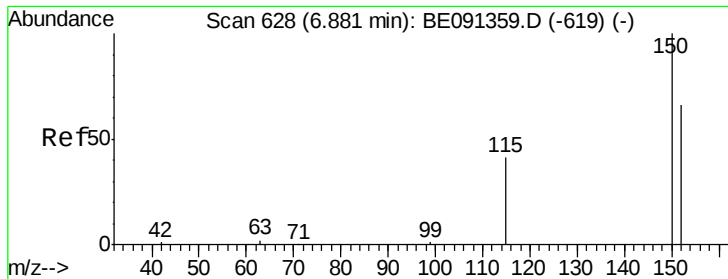
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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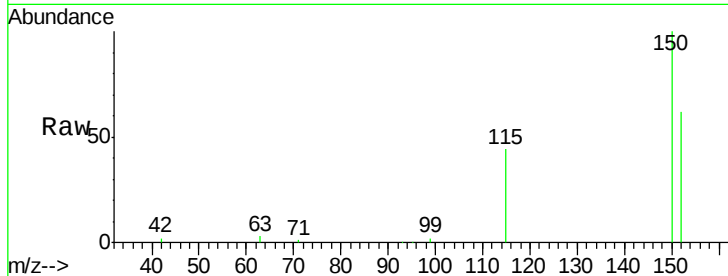




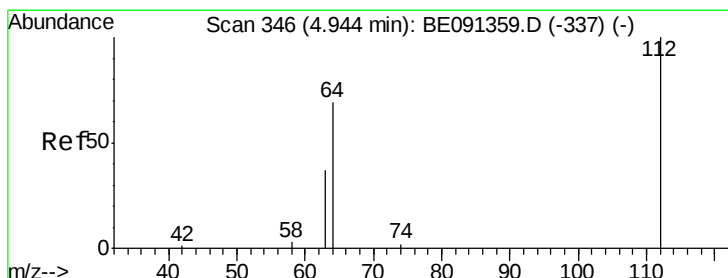
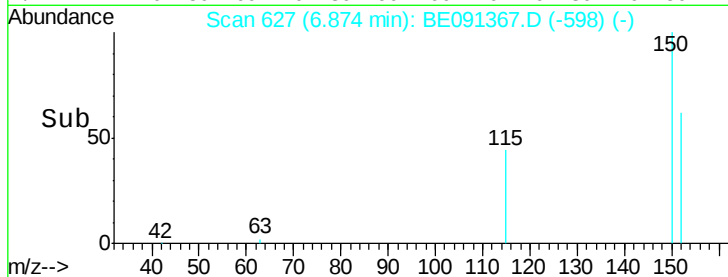
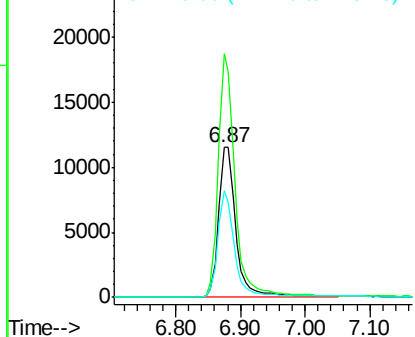
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.87 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BE091367.D
 Acq: 15 Jan 2016 1:26

Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001

Tgt Ion:152 Resp: 21044
 Ion Ratio Lower Upper
 152 100
 150 162.2 121.6 182.4
 115 71.0 50.6 75.8

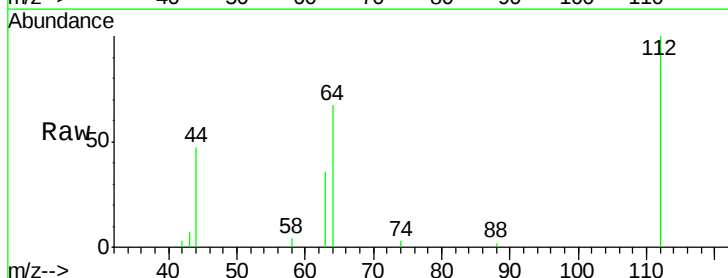


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

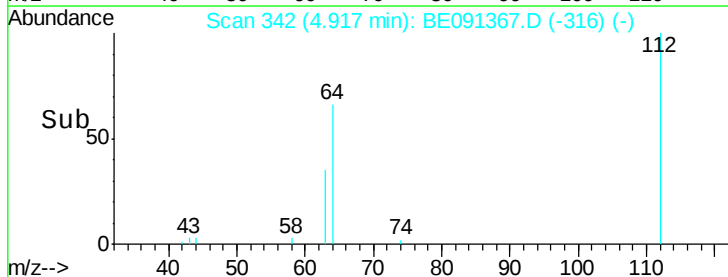
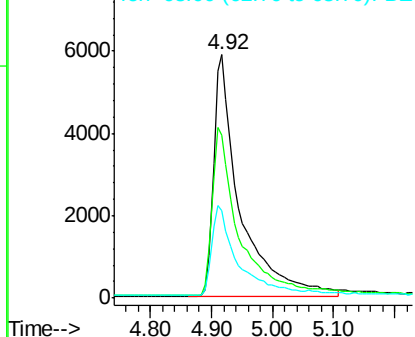


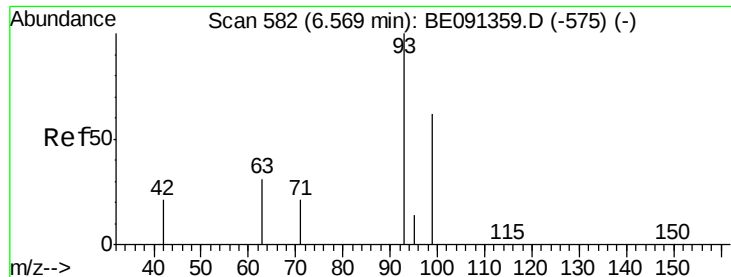
#2
 2-Fluorophenol
 Concen: 5.70 ng
 RT: 4.92 min Scan# 342
 Delta R.T. -0.03 min
 Lab File: BE091367.D
 Acq: 15 Jan 2016 1:26

Tgt Ion:112 Resp: 17467
 Ion Ratio Lower Upper
 112 100
 64 71.9 57.4 86.0
 63 38.1 32.2 48.2



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 5.73 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.02 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

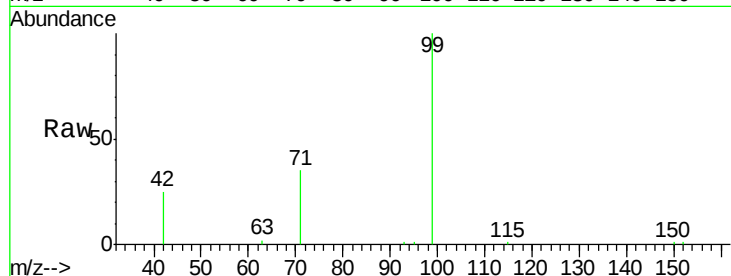
Tgt Ion: 99 Resp: 31564

Ion Ratio Lower Upper

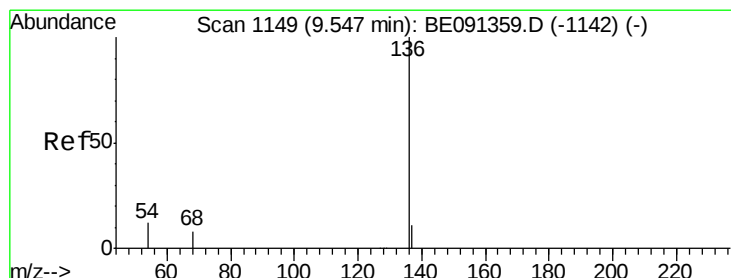
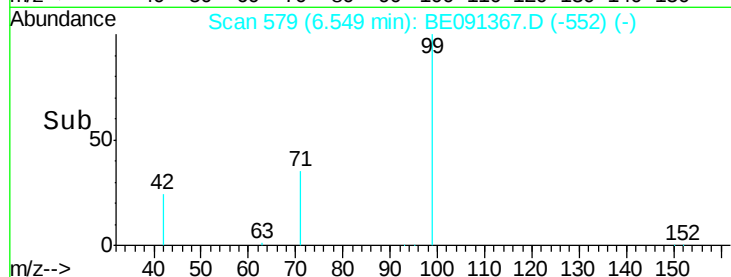
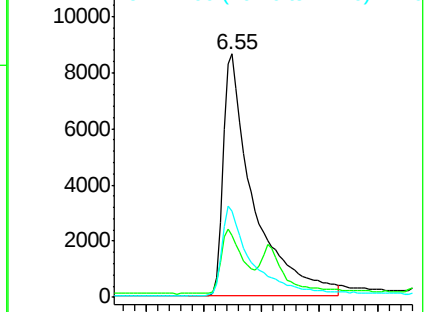
99 100

42 19.7 22.9 34.3#

71 36.5 35.4 53.2



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Tgt Ion: 136 Resp: 84448

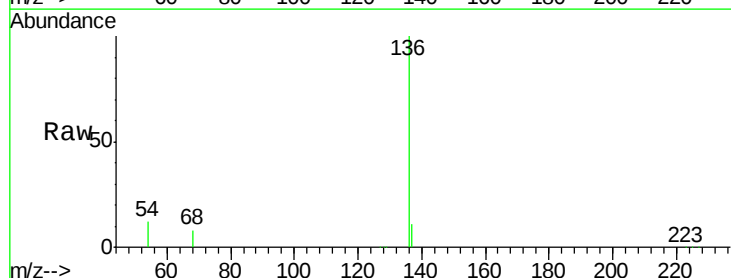
Ion Ratio Lower Upper

136 100

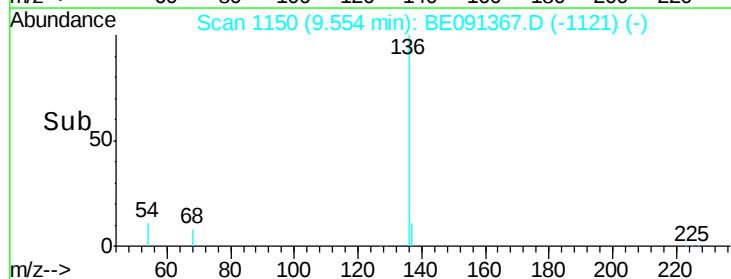
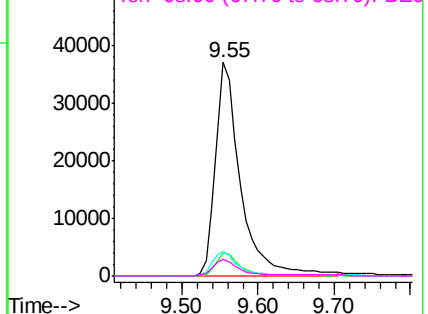
137 10.8 8.7 13.1

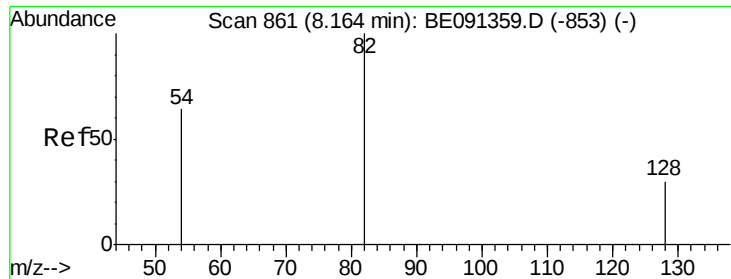
54 11.6 9.8 14.6

68 8.0 6.6 10.0



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): BE0
Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 4.36 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

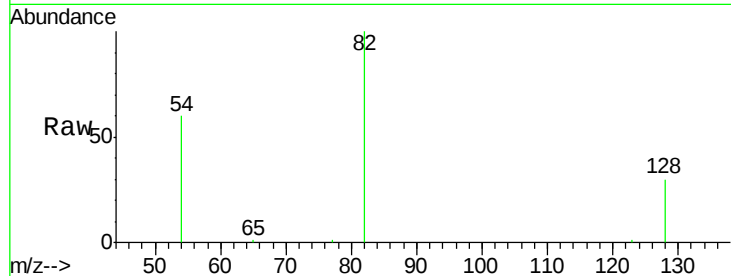
Tgt Ion: 82 Resp: 21352

Ion Ratio Lower Upper

82 100

128 30.4 24.6 36.8

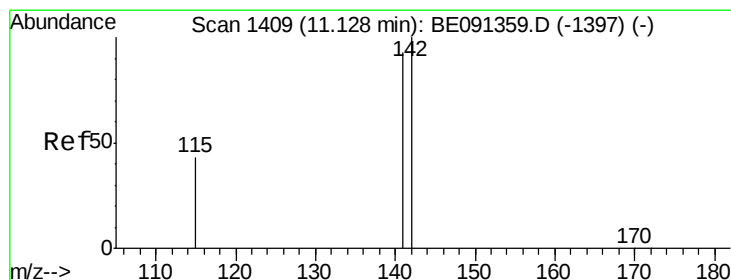
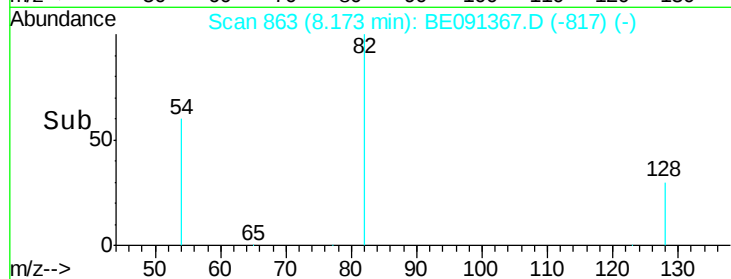
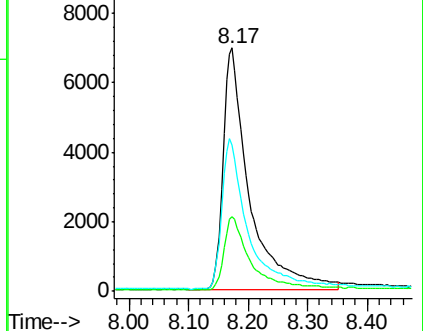
54 60.2 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE091359.D (-853) (-)

Ion 128.00 (127.70 to 128.70): BE091359.D (-853) (-)

Ion 54.00 (53.70 to 54.70): BE091359.D (-853) (-)



#7

2-Methylnaphthalene

Concen: 0.37 ng

RT: 11.13 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

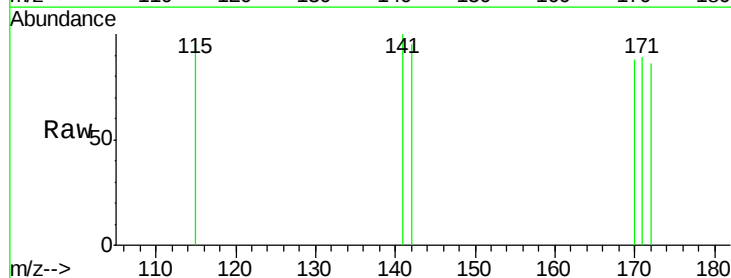
Tgt Ion: 142 Resp: 7

Ion Ratio Lower Upper

142 100

141 105.6 74.5 111.7

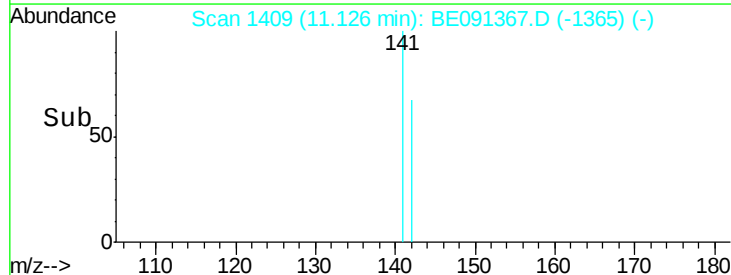
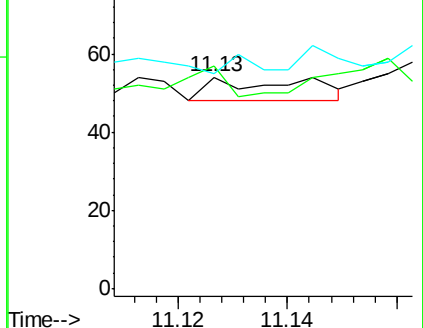
115 101.9 35.2 52.8#

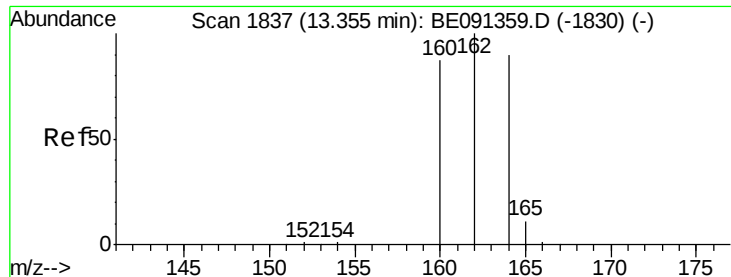


Abundance Ion 142.00 (141.70 to 142.70): BE091359.D (-1397) (-)

Ion 141.00 (140.70 to 141.70): BE091359.D (-1397) (-)

Ion 115.00 (114.70 to 115.70): BE091359.D (-1397) (-)





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

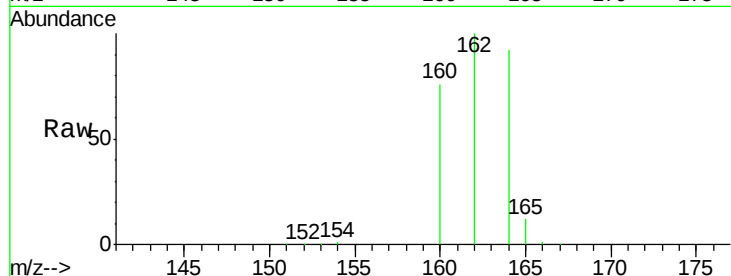
Tgt Ion:164 Resp: 44841

Ion Ratio Lower Upper

164 100

162 108.2 88.5 132.7

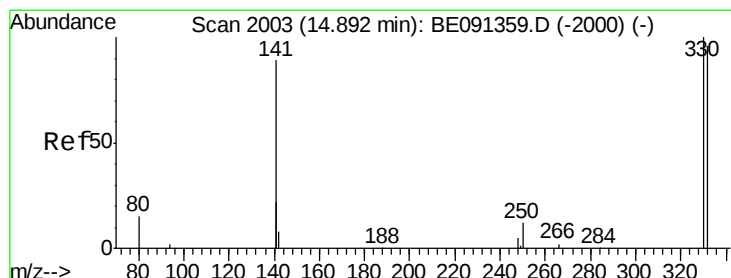
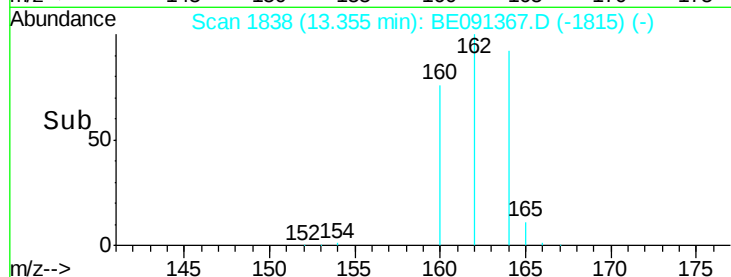
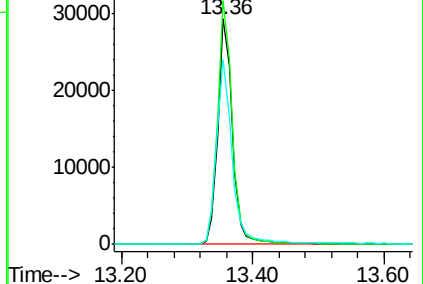
160 82.2 76.7 115.1



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



#9

2,4,6-Tribromophenol

Concen: 3.74 ng

RT: 14.89 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

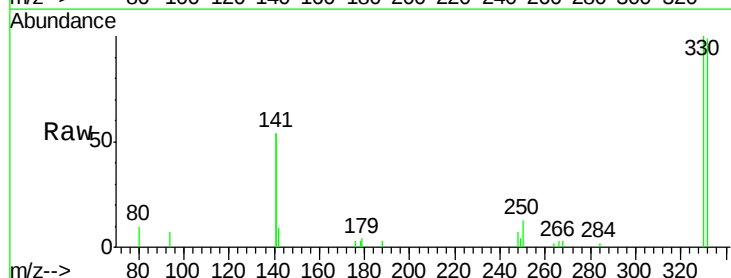
Tgt Ion:330 Resp: 5418

Ion Ratio Lower Upper

330 100

332 94.7 78.6 118.0

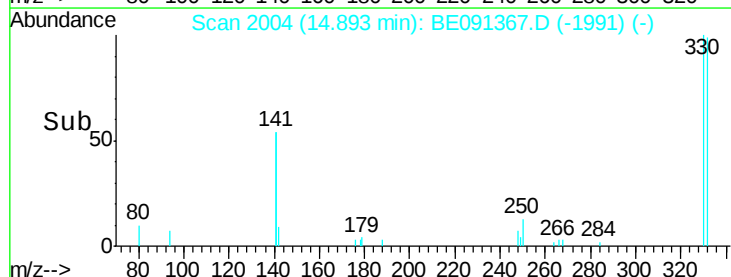
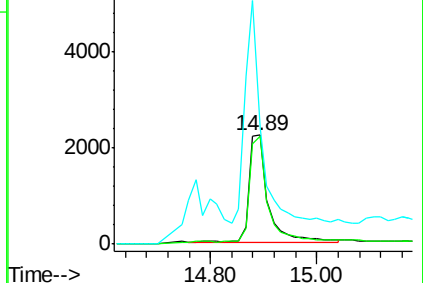
141 178.9 147.8 221.8

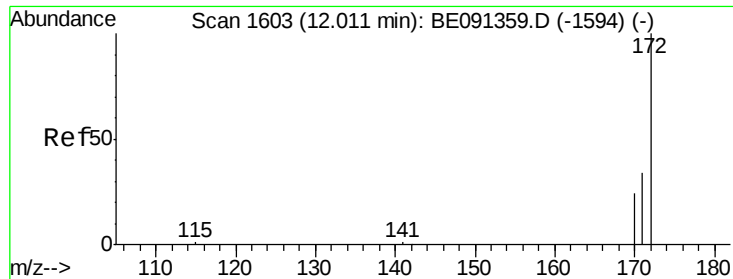


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

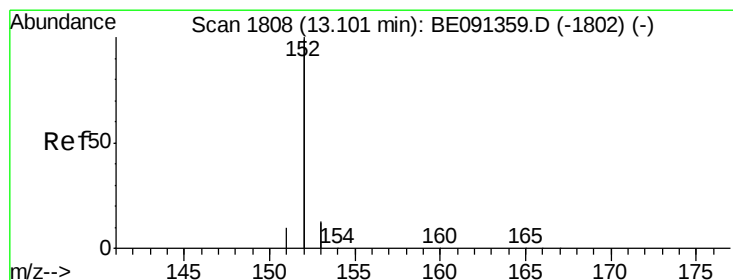
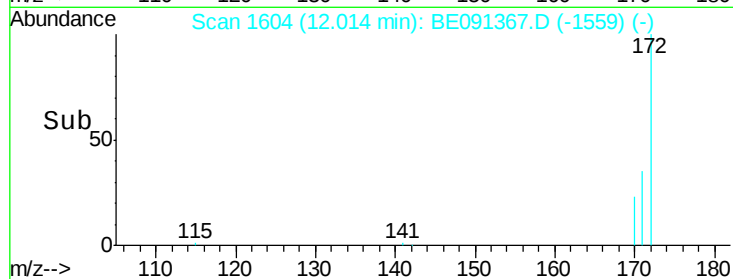
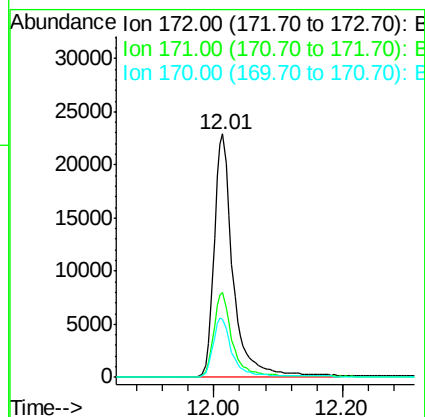
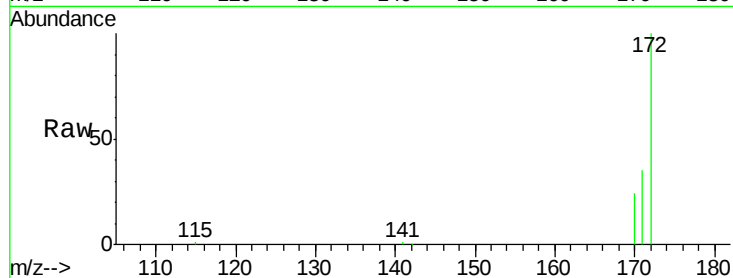




#10
2-Fluorobiphenyl
Concen: 4.84 ng
RT: 12.01 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BE091367.D
Acq: 15 Jan 2016 1:26

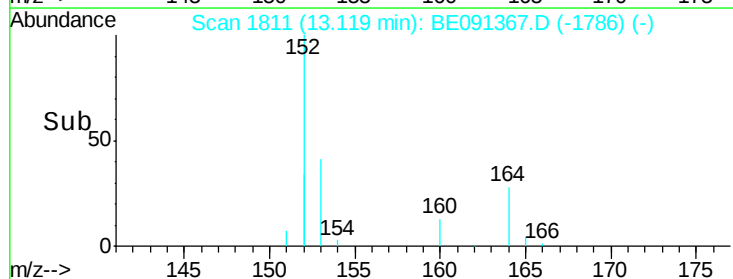
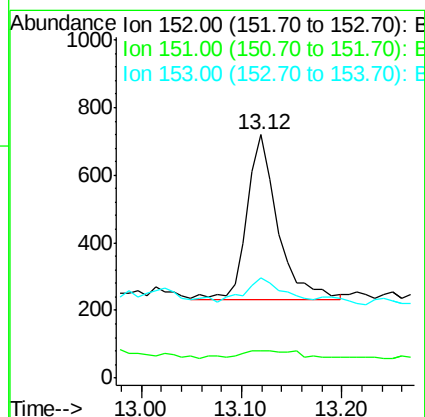
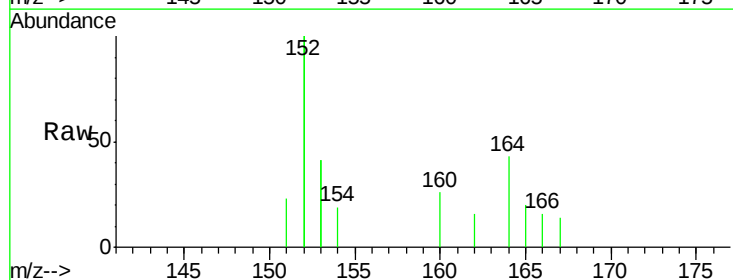
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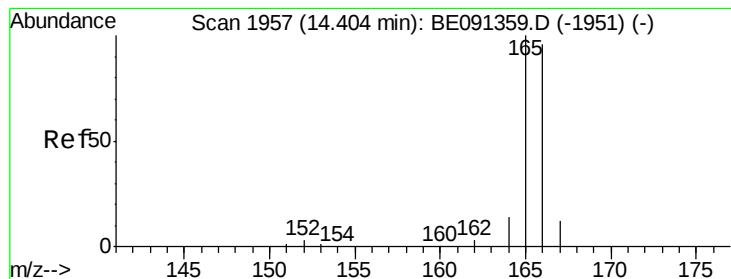
Tgt Ion:172 Resp: 46902
Ion Ratio Lower Upper
172 100
171 34.7 27.3 40.9
170 23.7 19.8 29.6



#11
Acenaphthylene
Concen: 0.28 ng
RT: 13.12 min Scan# 1811
Delta R.T. 0.02 min
Lab File: BE091367.D
Acq: 15 Jan 2016 1:26

Tgt Ion:152 Resp: 1041
Ion Ratio Lower Upper
152 100
151 8.8 3.8 5.8#
153 19.2 10.1 15.1#





#13

Fluorene

Concen: 0.14 ng

RT: 14.42 min Scan# 1960

Delta R.T. 0.02 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

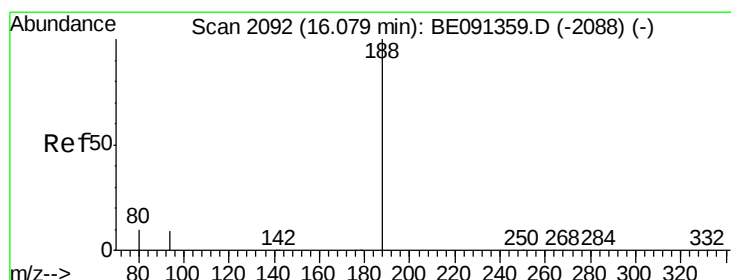
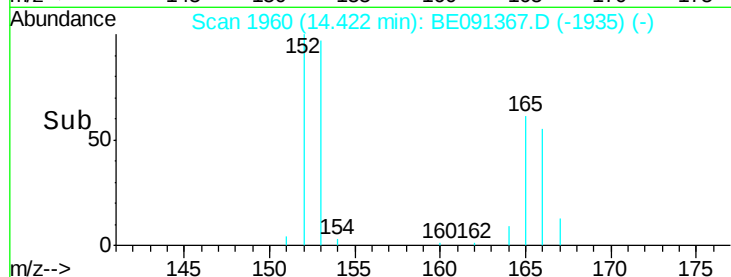
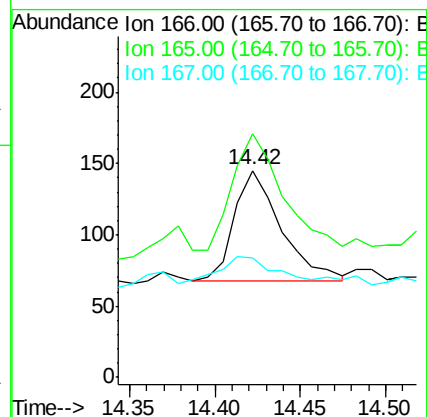
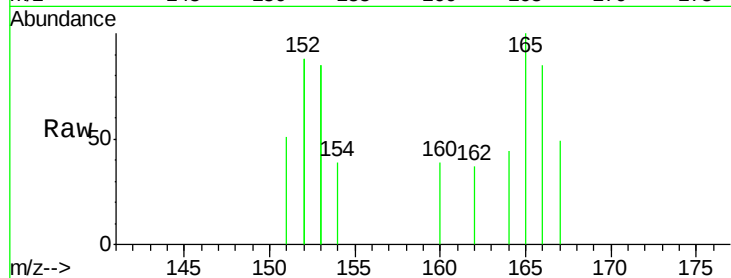
Tgt Ion:166 Resp: 146

Ion Ratio Lower Upper

166 100

165 127.4 83.0 124.6#

167 28.8 11.1 16.7#



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

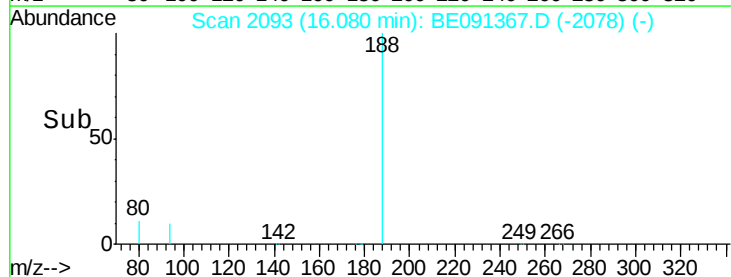
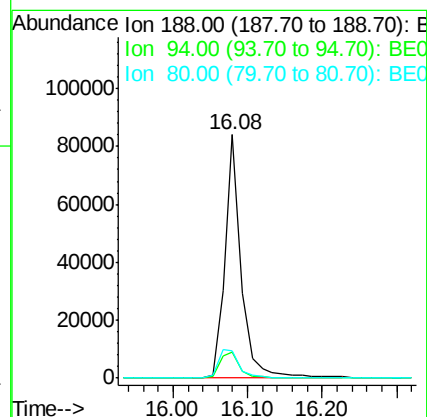
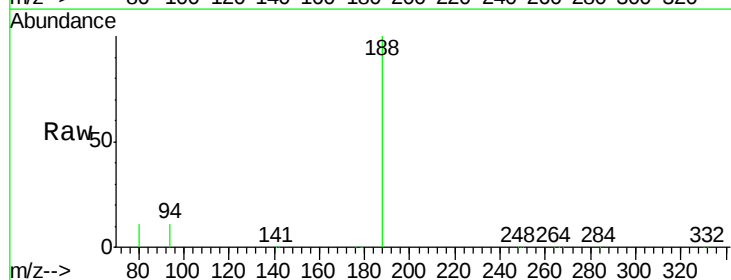
Tgt Ion:188 Resp: 129173

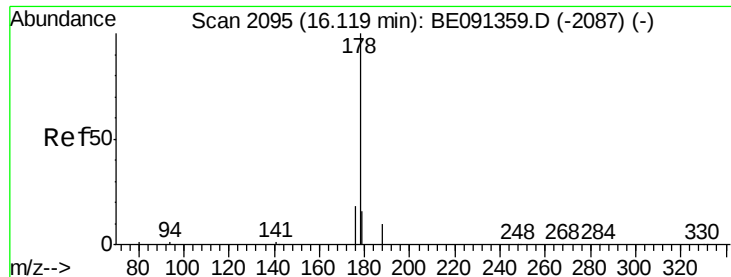
Ion Ratio Lower Upper

188 100

94 10.7 7.5 11.3

80 11.5 8.2 12.2





#15

Phenanthrene

Concen: 0.09 ng

RT: 16.12 min Scan# 2096

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

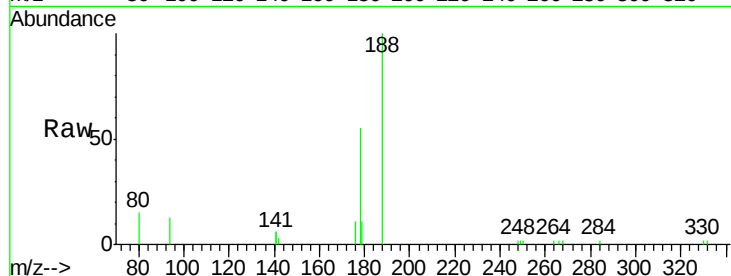
Tgt Ion:178 Resp: 3033

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

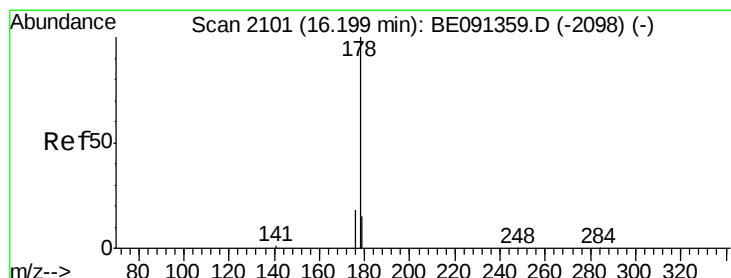
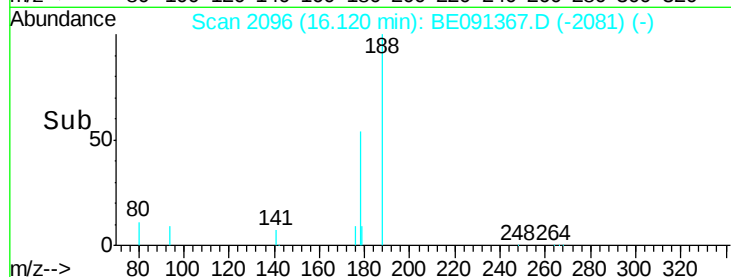
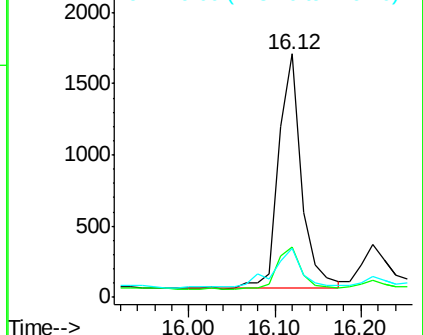
179 22.4 12.8 19.2#



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



#16

Anthracene

Concen: 0.26 ng

RT: 16.21 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

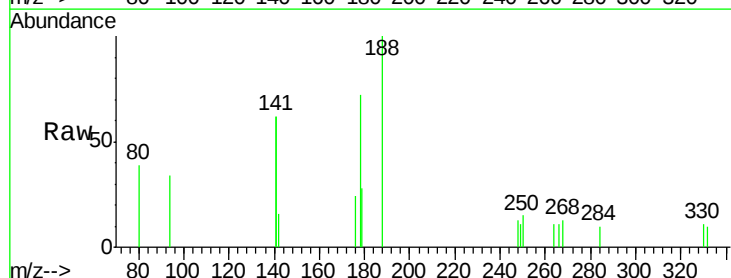
Tgt Ion:178 Resp: 694

Ion Ratio Lower Upper

178 100

176 21.5 15.0 22.6

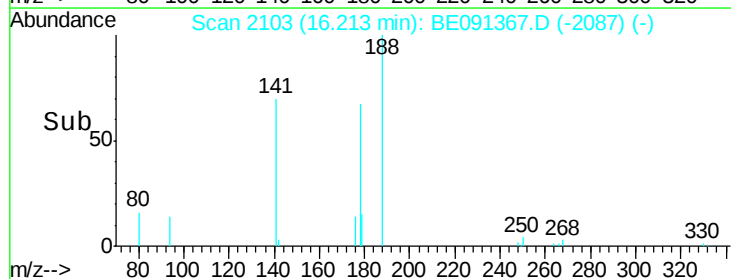
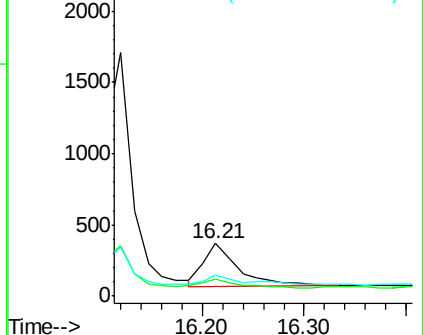
179 25.8 12.4 18.6#

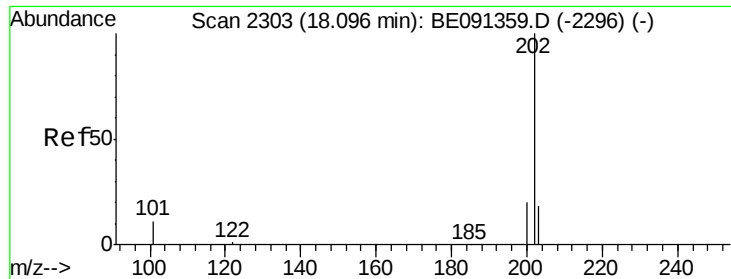


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

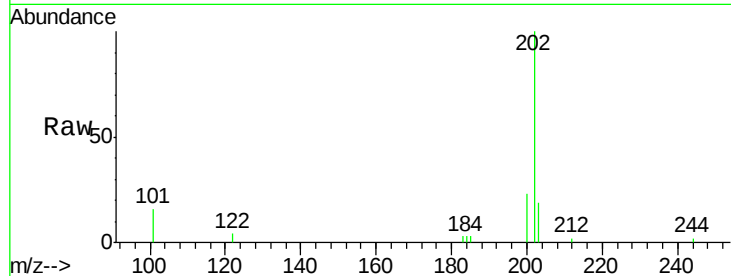




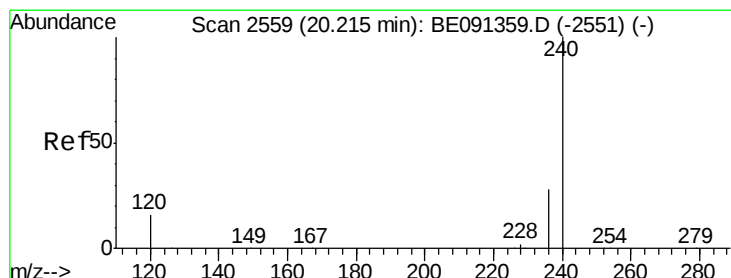
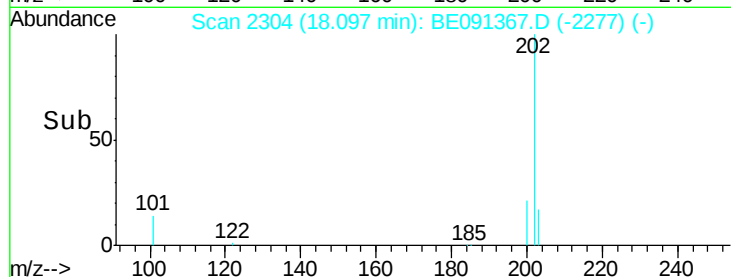
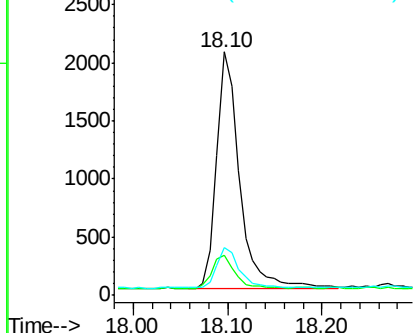
#17
Fluoranthene
 Concen: 0.37 ng
 RT: 18.10 min Scan# 2304
 Delta R.T. 0.00 min
 Lab File: BE091367.D
 Acq: 15 Jan 2016 1:26

Instrument :
 BNA_E
 ClientSampleId :
 IMPACT-PS-001

Tgt Ion: 202 Resp: 3423
 Ion Ratio Lower Upper
 202 100
 101 14.1 11.0 16.4
 203 16.7 13.9 20.9

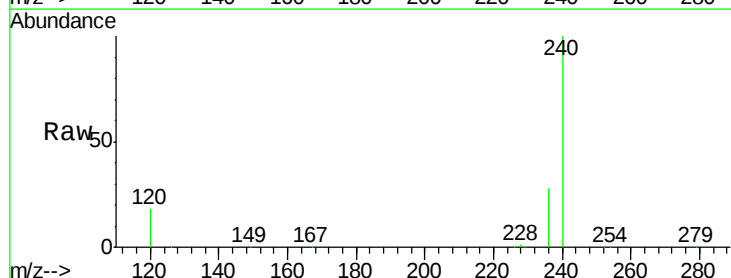


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

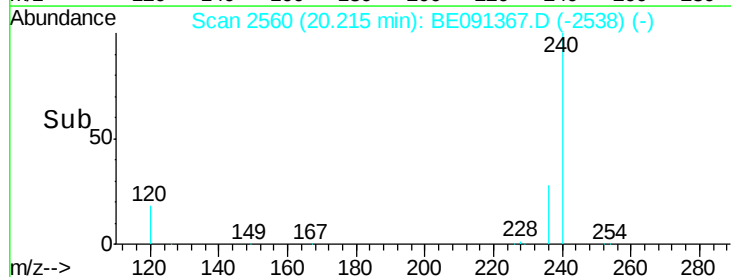
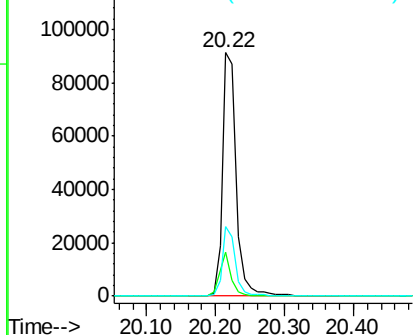


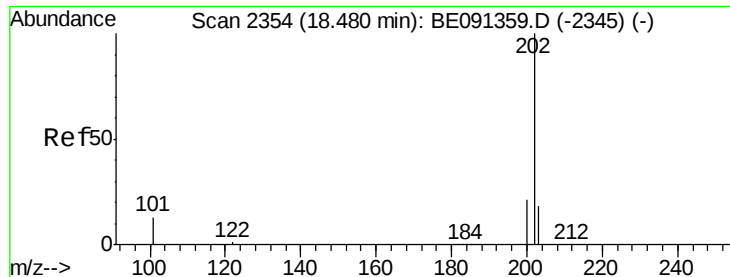
#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091367.D
 Acq: 15 Jan 2016 1:26

Tgt Ion: 240 Resp: 128344
 Ion Ratio Lower Upper
 240 100
 120 17.9 12.6 19.0
 236 28.3 22.7 34.1



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





#19

Pyrene

Concen: 0.47 ng

RT: 18.48 min Scan# 2355

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

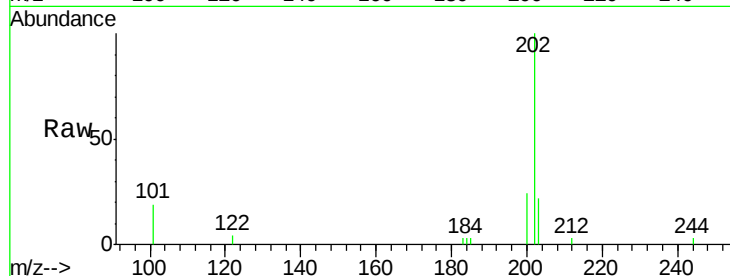
Tgt Ion:202 Resp: 2758

Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

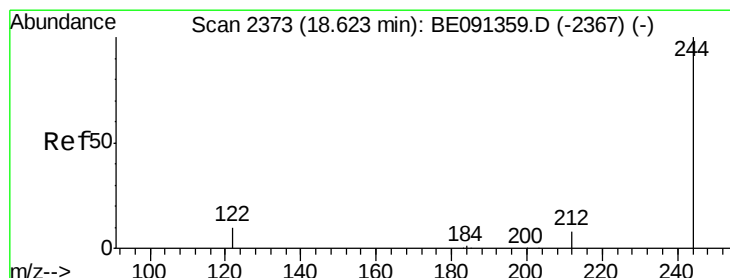
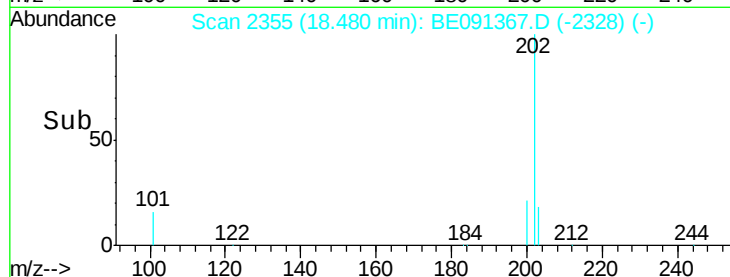
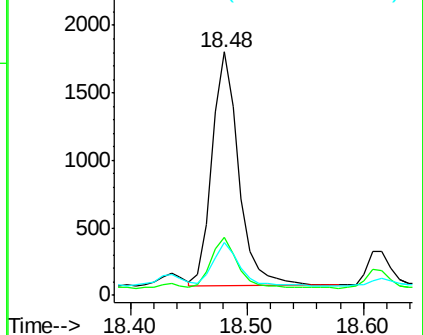
203 18.5 14.2 21.4



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



#20

Terphenyl-d14

Concen: 4.79 ng

RT: 18.62 min Scan# 2373

Delta R.T. -0.01 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

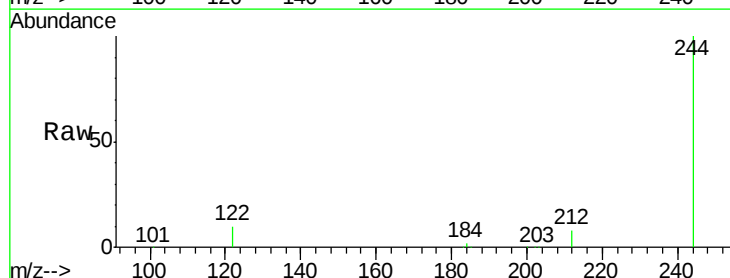
Tgt Ion:244 Resp: 87605

Ion Ratio Lower Upper

244 100

212 8.4 7.0 10.4

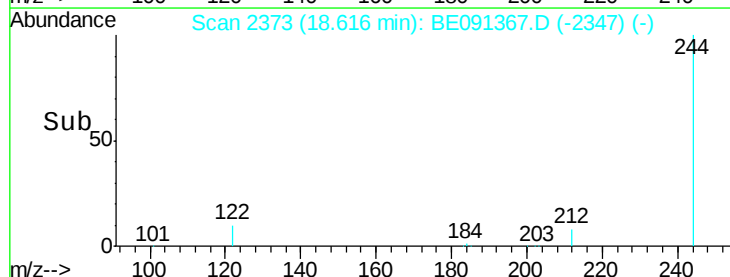
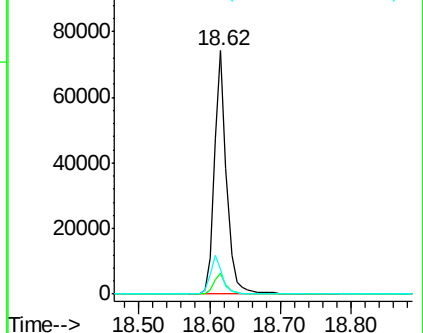
122 10.2 8.5 12.7

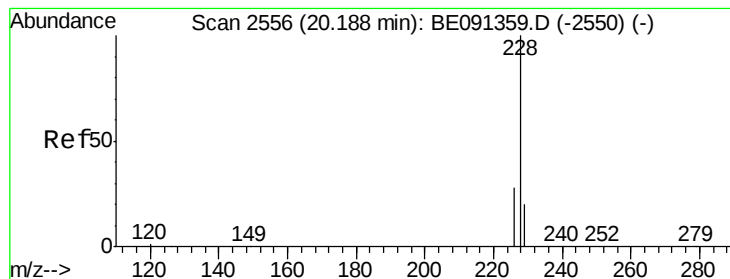


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.45 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

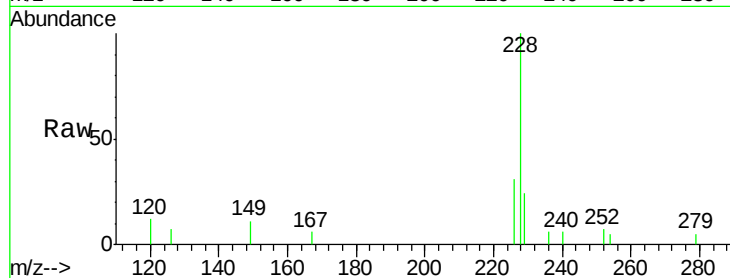
Tgt Ion:228 Resp: 1892

Ion Ratio Lower Upper

228 100

226 30.9 22.5 33.7

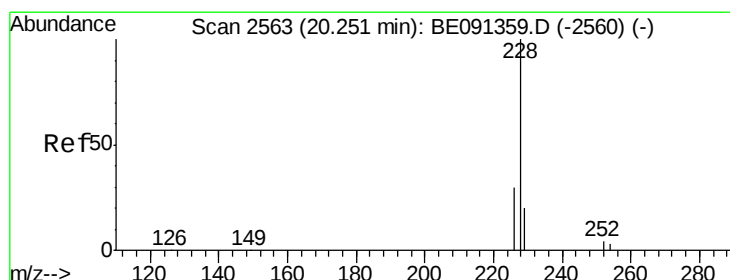
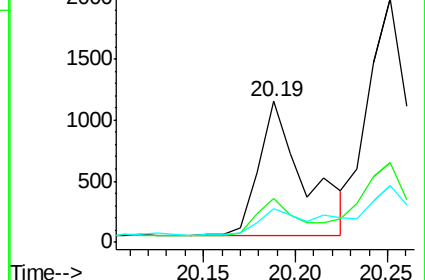
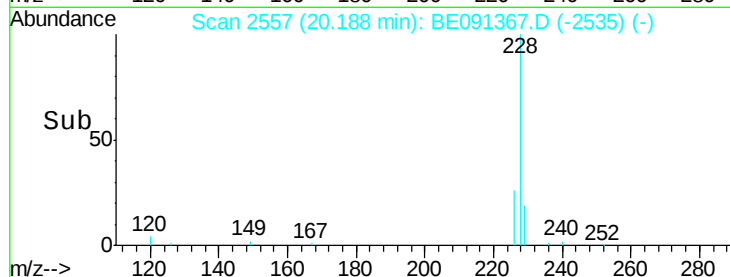
229 24.0 16.2 24.4



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



#22

Chrysene

Concen: 0.10 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

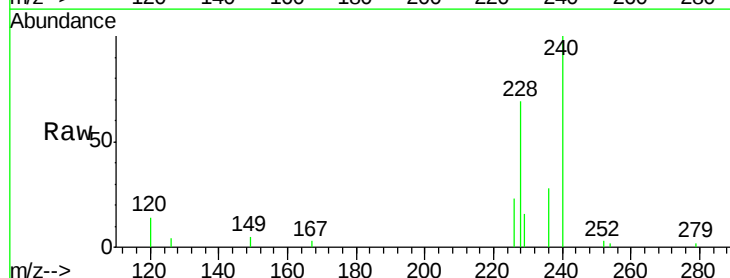
Tgt Ion:228 Resp: 3076

Ion Ratio Lower Upper

228 100

226 32.8 23.7 35.5

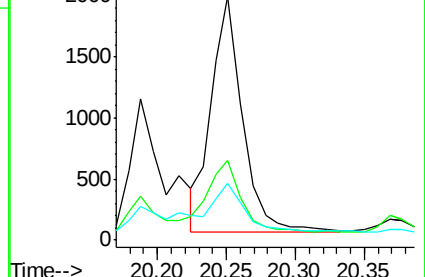
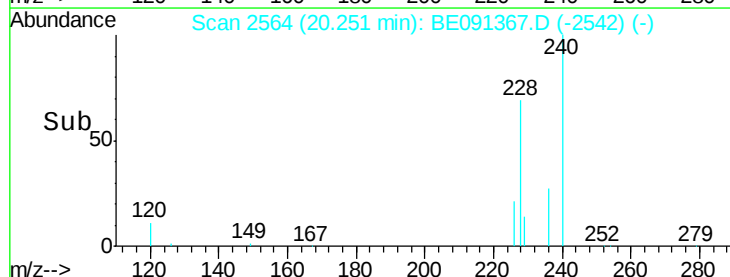
229 23.2 16.0 24.0

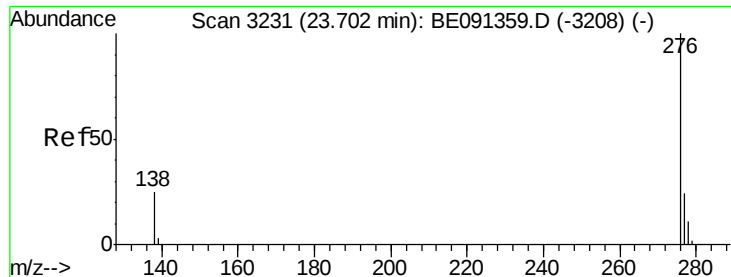


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.35 ng

RT: 23.54 min Scan# 3197

Delta R.T. -0.16 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

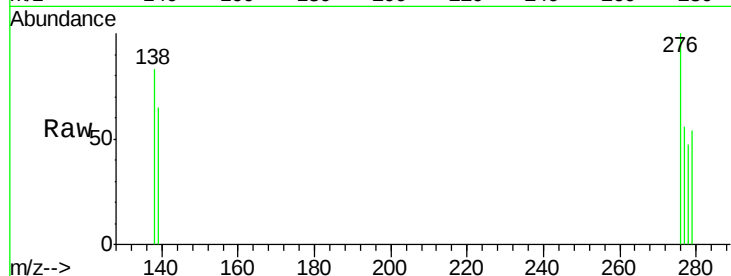
Tgt Ion: 276 Resp: 142

Ion Ratio Lower Upper

276 100

138 26.1 18.6 27.8

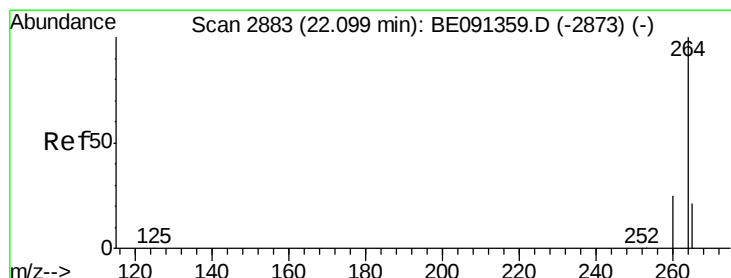
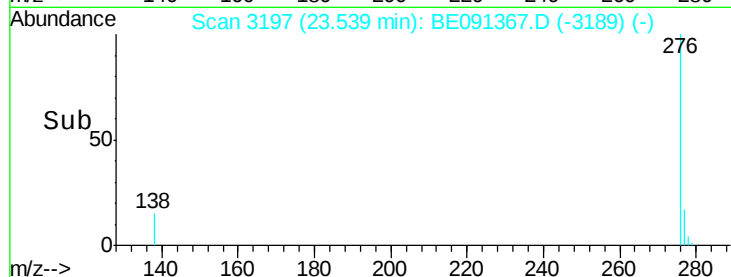
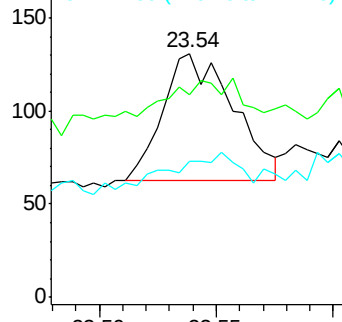
277 20.4 16.5 24.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

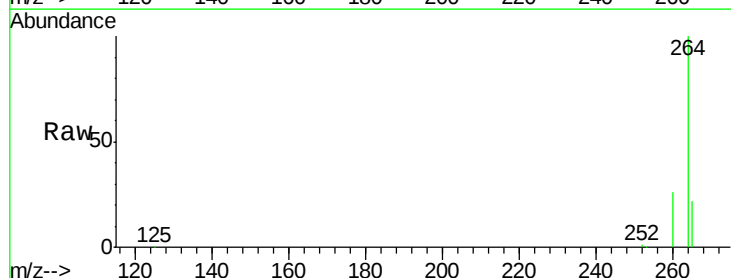
Tgt Ion: 264 Resp: 110773

Ion Ratio Lower Upper

264 100

260 25.8 20.4 30.6

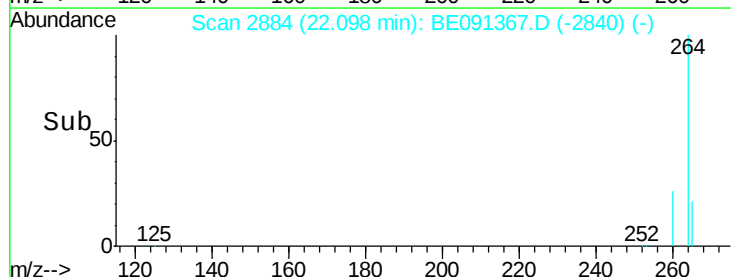
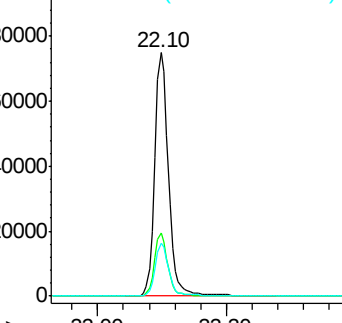
265 21.5 17.2 25.8

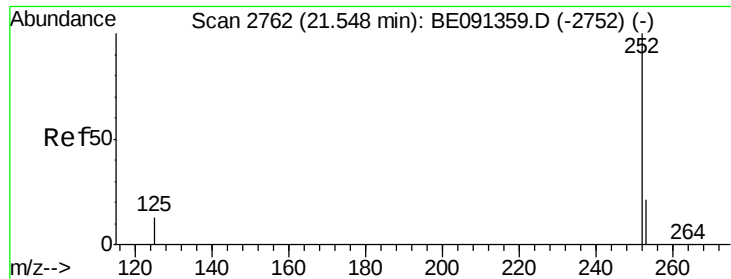


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#25

Benzo(b)fluoranthene

Concen: 0.34 ng

RT: 21.55 min Scan# 2764

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

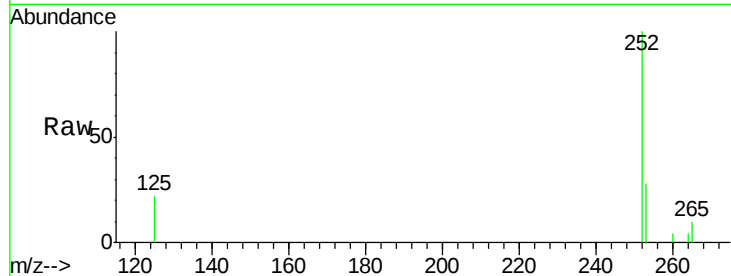
Tgt Ion:252 Resp: 1659

Ion Ratio Lower Upper

252 100

253 27.9 17.4 26.2#

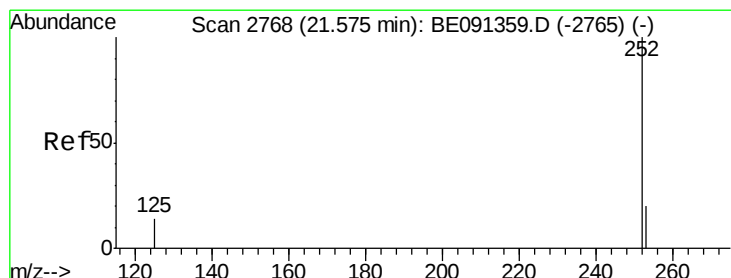
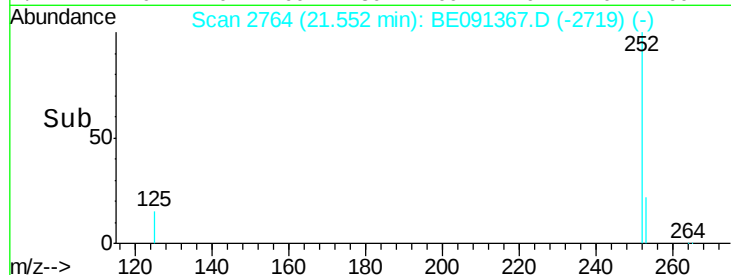
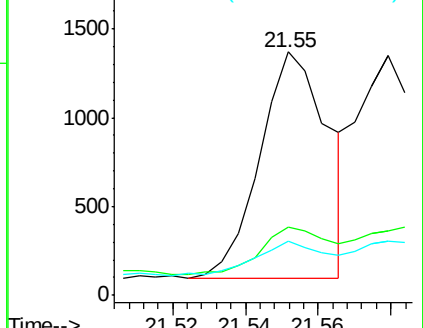
125 22.2 11.0 16.6#



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



#26

Benzo(k)fluoranthene

Concen: 0.32 ng

RT: 21.58 min Scan# 2770

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

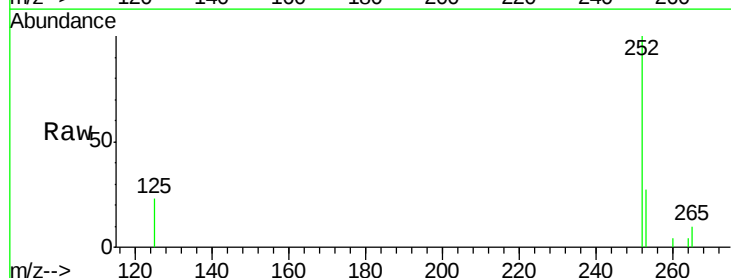
Tgt Ion:252 Resp: 1795

Ion Ratio Lower Upper

252 100

253 27.0 17.5 26.3#

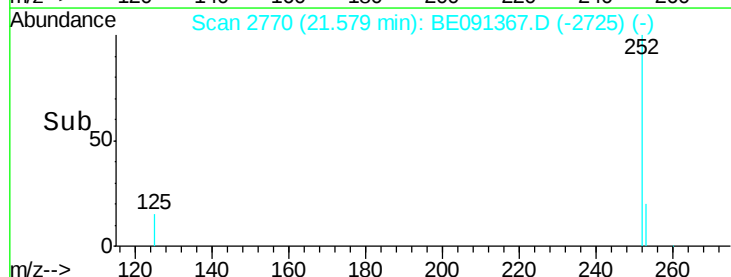
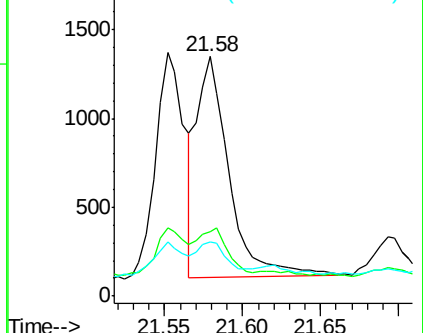
125 22.8 11.3 16.9#

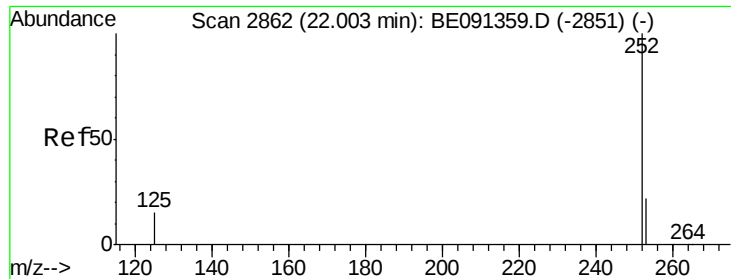


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 0.32 ng

RT: 22.01 min Scan# 2864

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001

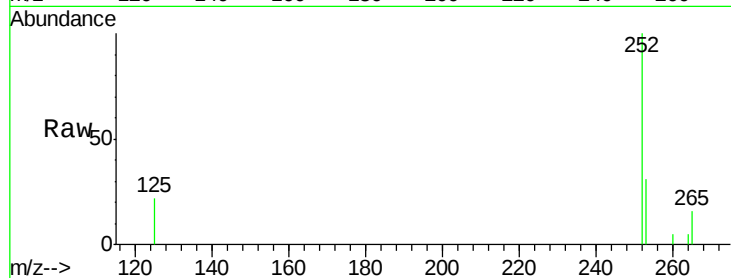
Tgt Ion:252 Resp: 1714

Ion Ratio Lower Upper

252 100

253 30.7 18.1 27.1#

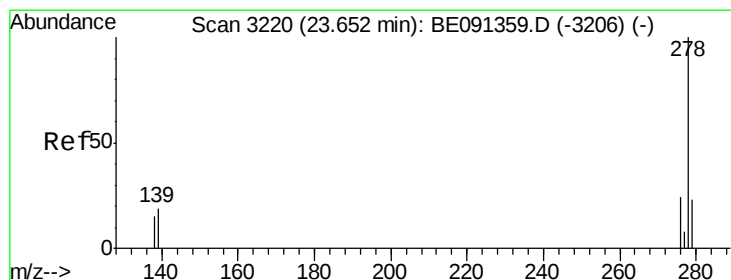
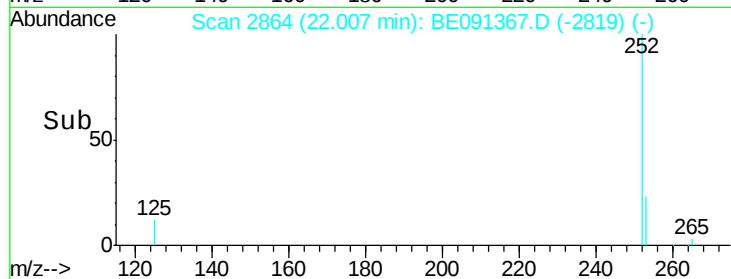
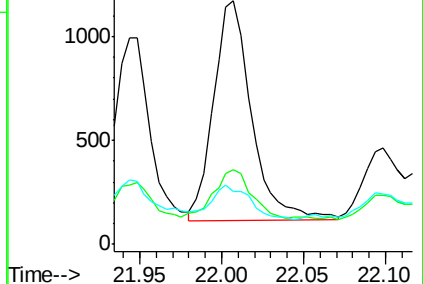
125 21.9 12.2 18.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.47 ng

RT: 23.65 min Scan# 3222

Delta R.T. 0.00 min

Lab File: BE091367.D

Acq: 15 Jan 2016 1:26

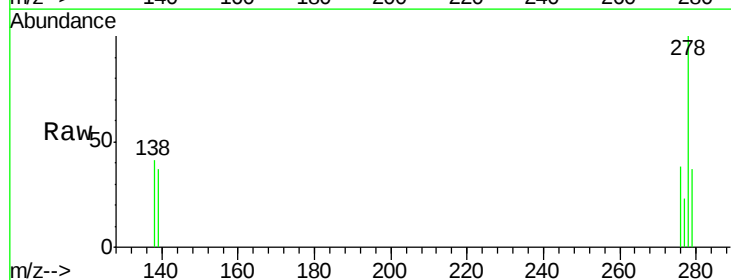
Tgt Ion:278 Resp: 853

Ion Ratio Lower Upper

278 100

139 36.6 16.3 24.5#

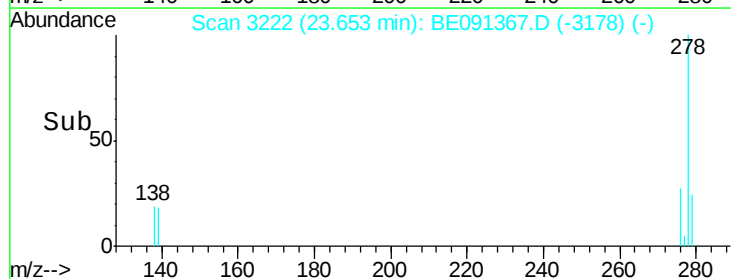
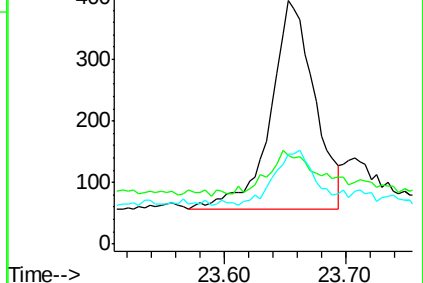
279 36.9 19.4 29.2#

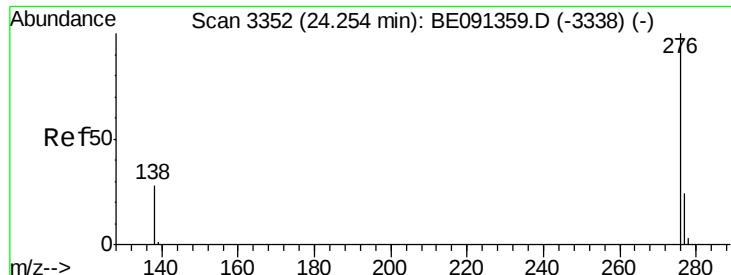


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#29

Benzo(g,h,i)perylene

Concen: 0.39 ng

RT: 24.25 min Scan# 3354

Delta R.T. 0.00 min

Lab File: BE091367.D

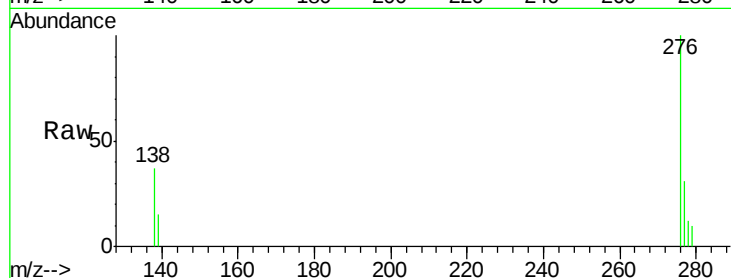
Acq: 15 Jan 2016 1:26

Instrument :

BNA_E

ClientSampleId :

IMPACT-PS-001



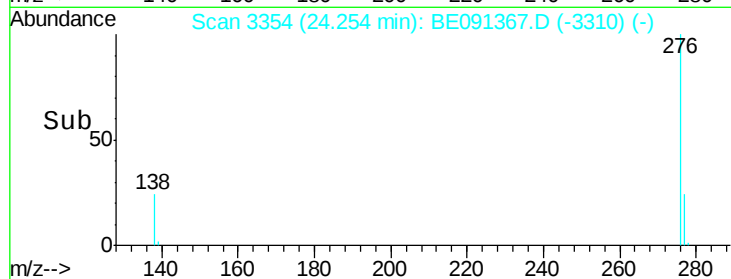
Tgt Ion: 276 Resp: 1474

Ion Ratio Lower Upper

276 100

277 31.1 19.8 29.6#

138 37.2 23.3 34.9#



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

800

600

400

200

0

24.10 24.20 24.30 24.40

Time-->