

Data Path : Z:\HPCHEM1\BNA E\DATA\BE060816\
 Data File : BE091905.D
 Acq On : 8 Jun 2016 17:34
 Operator : UM/SJ
 Sample : H3359-01RE
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 OM-SPN-001-160531RE

Quant Time: Jun 09 04:58:23 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 08 16:11:34 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	30476	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	136901	5.00	ng	0.00
15) Acenaphthene-d10	14.38	164	82921	5.00	ng	0.00
24) Phenanthrene-d10	17.12	188	254735	5.00	ng	0.00
31) Chrysene-d12	21.30	240	204285	5.00	ng	0.00
40) Perylene-d12	23.71	264	282812	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.38	112	25219	3.88	ng	0.00
5) Phenol-d6	6.94	99	35343	4.39	ng	-0.02
9) Nitrobenzene-d5	8.91	82	19542	1.92	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	9904	4.19	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	54679	2.17	ng	0.00
34) Terphenyl-d14	19.74	244	104871	3.16	ng	0.00

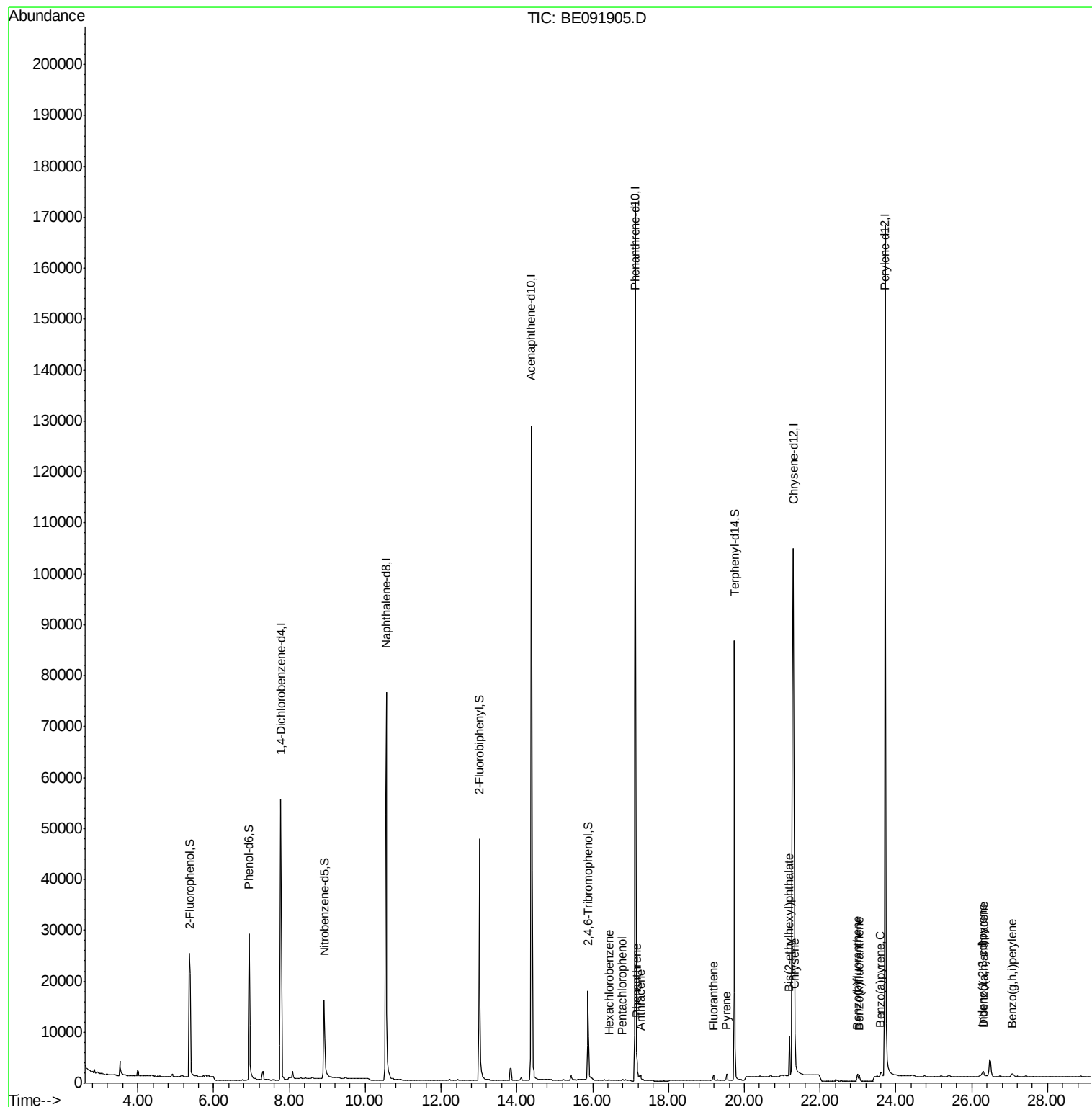
Target Compounds						Qvalue
26) Hexachlorobenzene	16.44	284	195	0.02	ng	# 87
27) Pentachlorophenol	16.78	266	221	0.11	ng	# 88
28) Phenanthrene	17.17	178	1607	0.03	ng	95
29) Anthracene	17.26	178	1178m	0.02	ng	
30) Fluoranthene	19.19	202	1631	0.03	ng	97
33) Pyrene	19.53	202	1765	0.03	ng	99
37) Chrysene	21.33	228	6623m	0.03	ng	
38) Bis(2-ethylhexyl)phthalate	21.19	149	10240	0.39	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.29	276	1840	0.07	ng	# 76
41) Benzo(b)fluoranthene	22.98	252	2060	0.03	ng	# 73
42) Benzo(k)fluoranthene	23.03	252	1995	0.03	ng	# 74
43) Benzo(a)pyrene	23.59	252	1704	0.03	ng	# 51
44) Dibenzo(a,h)anthracene	26.31	278	1436	0.02	ng	# 70
45) Benzo(g,h,i)perylene	27.07	276	1657	0.03	ng	# 81

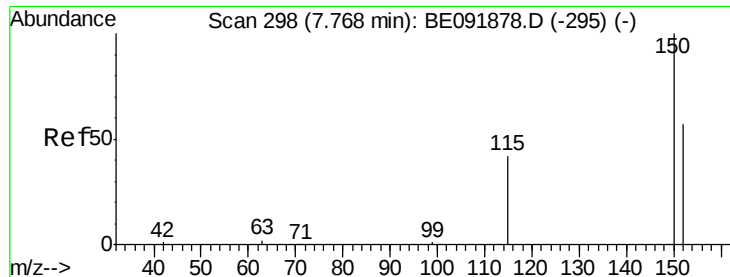
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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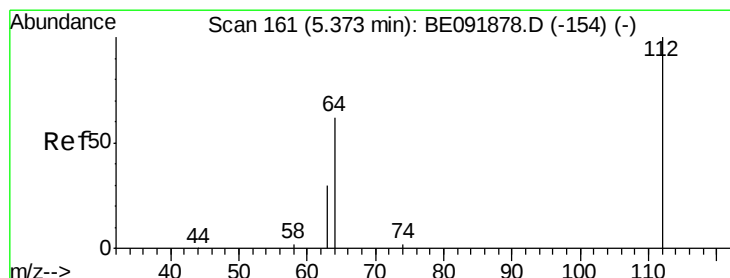
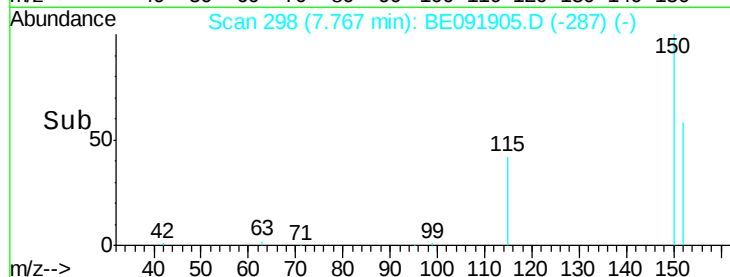
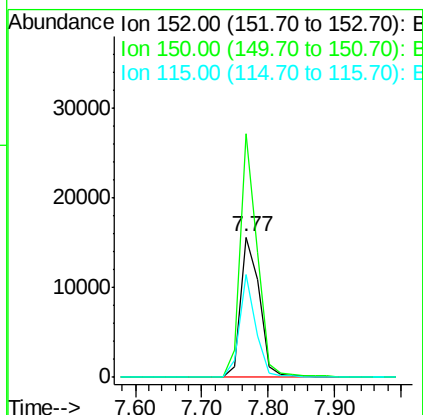
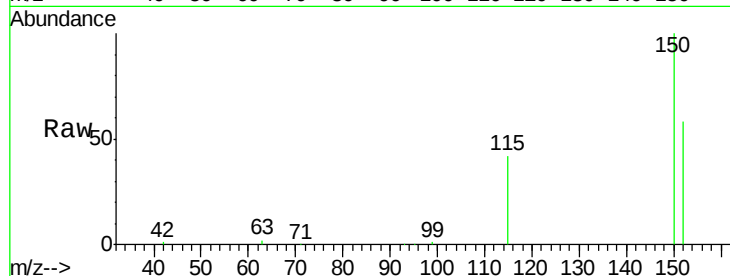


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.77 min Scan# 298
Delta R.T. -0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531RE

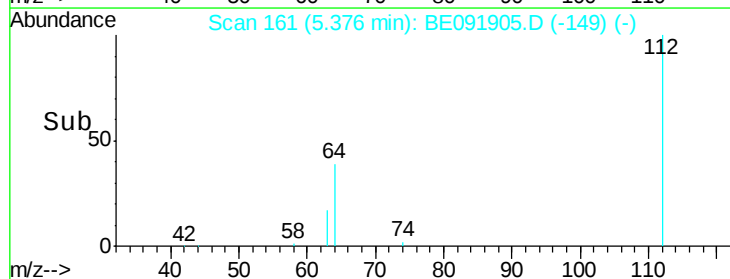
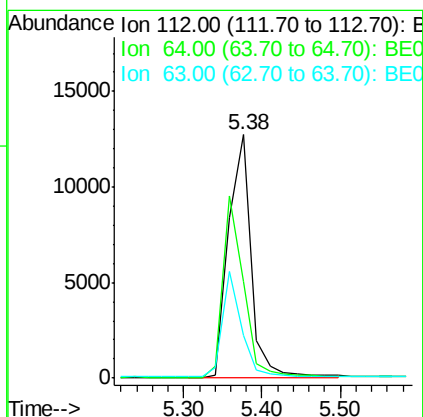
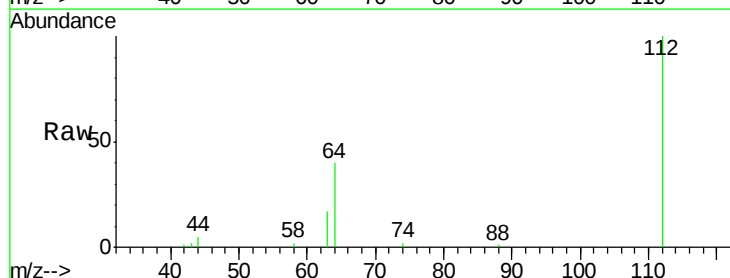
Tot Ion:152 Resp: 30476
Ion Ratio Lower Upper
152 100
150 173.5 123.9 185.9
115 73.4 48.3 72.5#

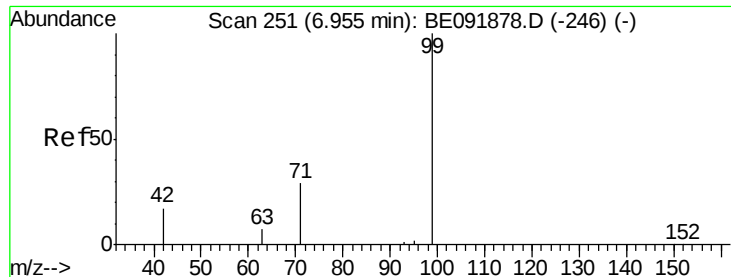


#4

2-Fluorophenol
Concen: 3.88 ng
RT: 5.38 min Scan# 161
Delta R.T. 0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

Tgt Ion:112 Resp: 25219
Ion Ratio Lower Upper
112 100
64 67.7 53.7 80.5
63 36.3 29.5 44.3





#5

Phenol-d6

Concen: 4.39 ng

RT: 6.94 min Scan# 250

Delta R.T. -0.02 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

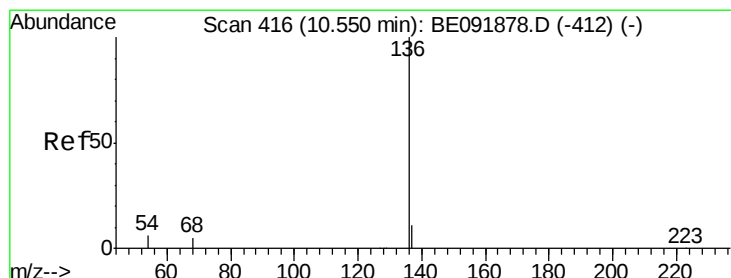
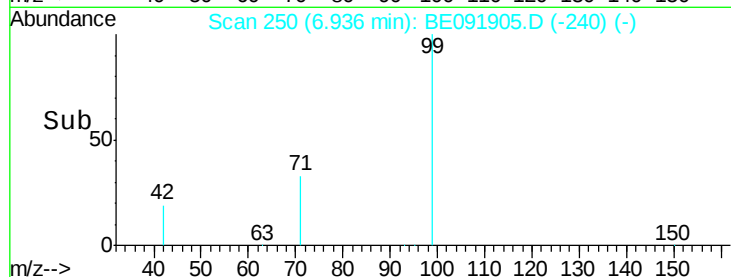
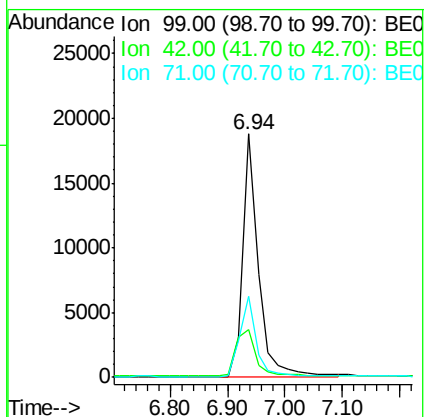
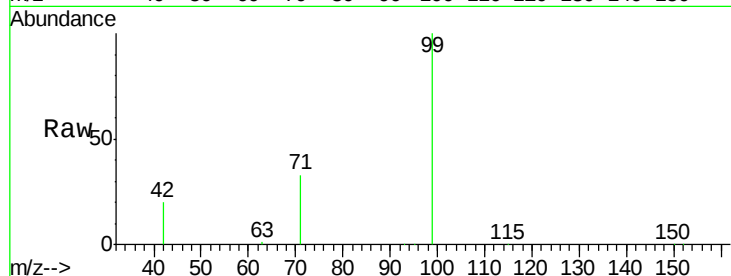
Tot Ion: 99 Resp: 35343

Ion Ratio Lower Upper

99 100

42 24.4 19.6 29.4

71 35.0 28.1 42.1



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Tgt Ion: 136 Resp: 136901

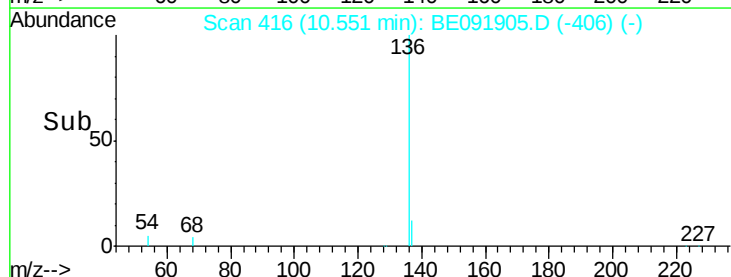
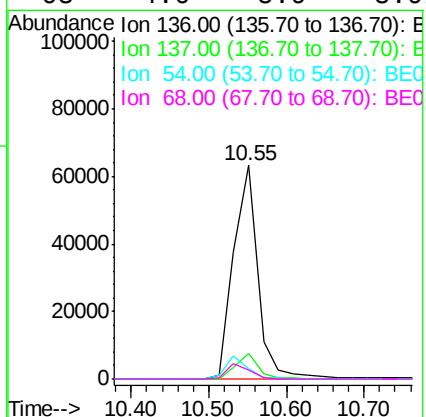
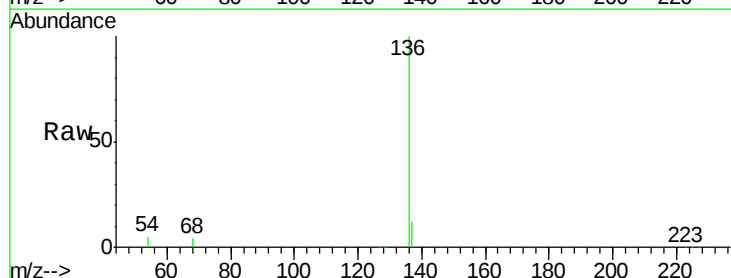
Ion Ratio Lower Upper

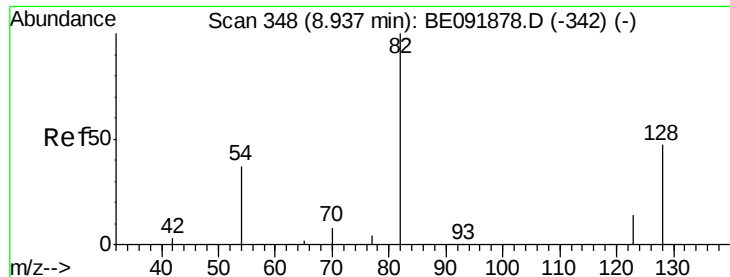
136 100

137 11.7 8.3 12.5

54 5.0 8.2 12.4#

68 4.0 5.9 8.9#





#9

Nitrobenzene-d5

Concen: 1.92 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

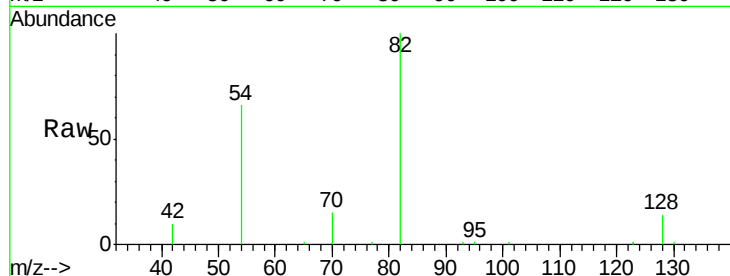
Tot Ion: 82 Resp: 19542

Ion Ratio Lower Upper

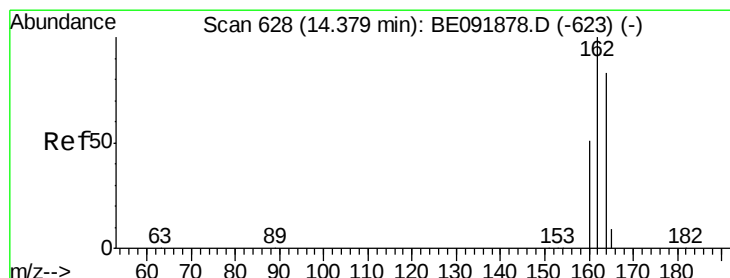
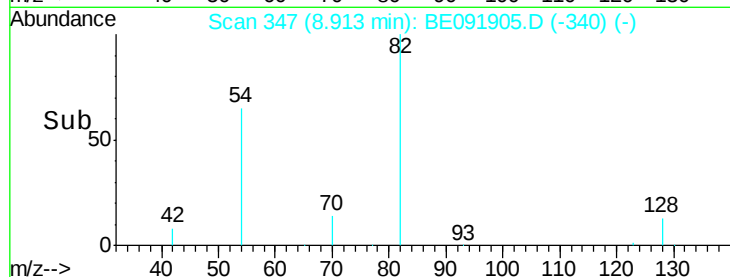
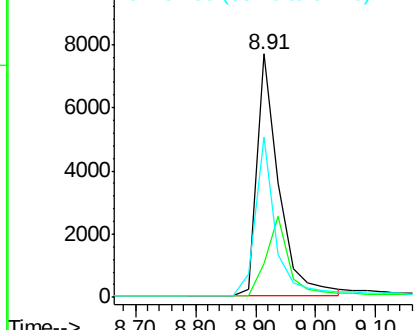
82 100

128 14.1 39.5 59.3#

54 65.6 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 628

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

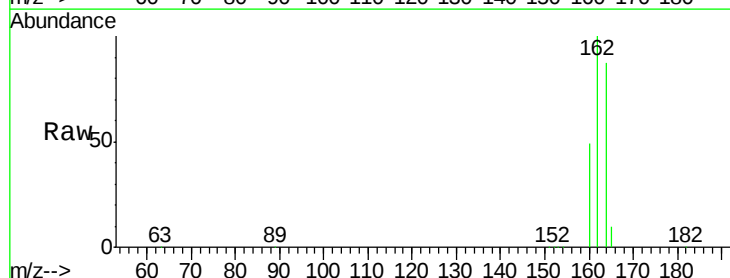
Tgt Ion: 164 Resp: 82921

Ion Ratio Lower Upper

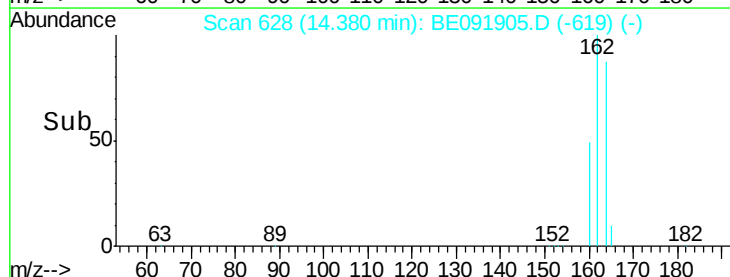
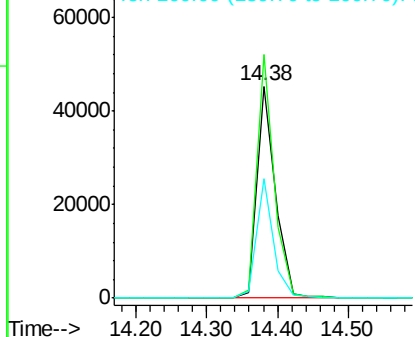
164 100

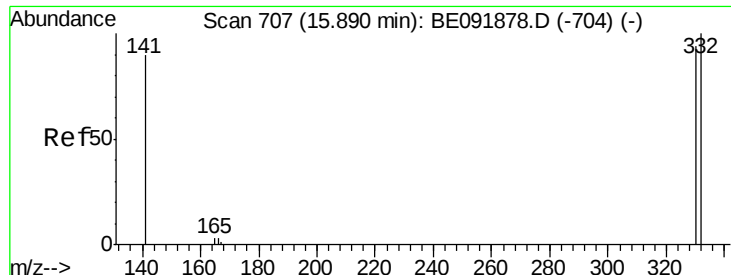
162 115.0 71.8 107.8#

160 56.5 28.0 42.0#



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





#16

2,4,6-Tribromophenol

Concen: 4.19 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

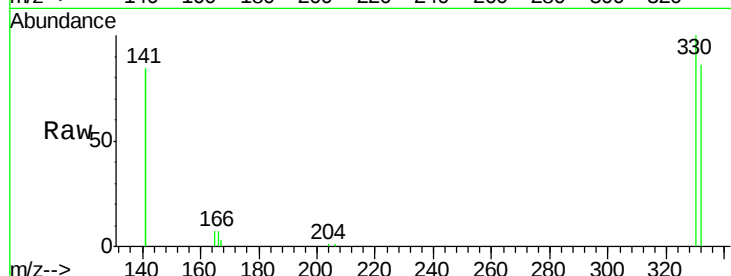
Tot Ion:330 Resp: 9904

Ion Ratio Lower Upper

330 100

332 98.0 77.0 115.6

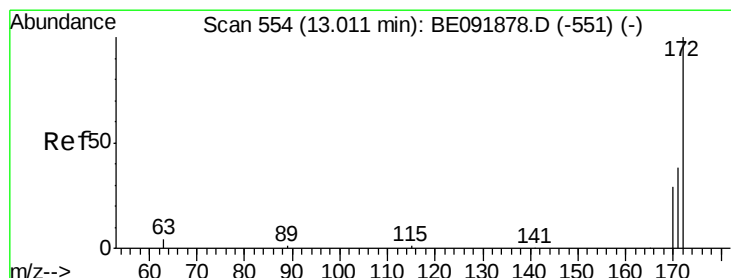
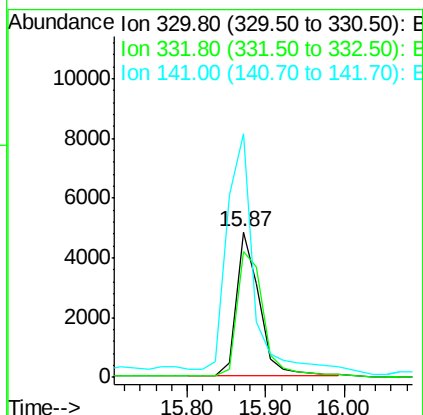
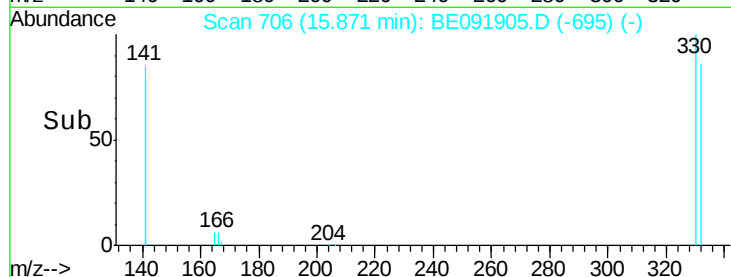
141 176.7 138.4 207.6



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



#17

2-Fluorobiphenyl

Concen: 2.17 ng

RT: 13.01 min Scan# 554

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

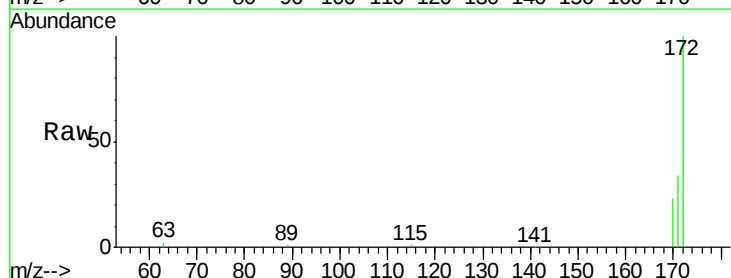
Tgt Ion:172 Resp: 54679

Ion Ratio Lower Upper

172 100

171 34.3 24.3 36.5

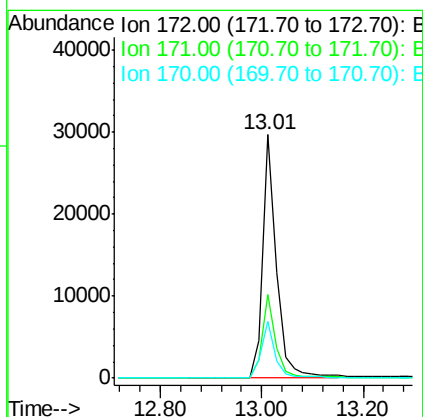
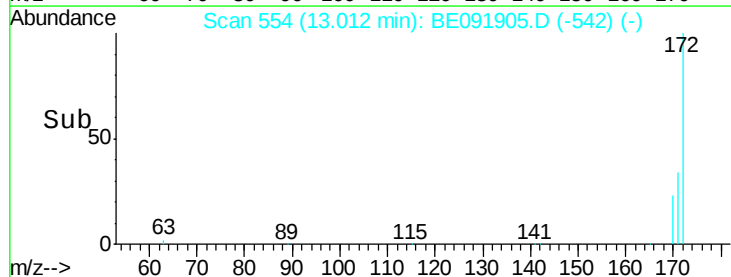
170 23.4 14.9 22.3#

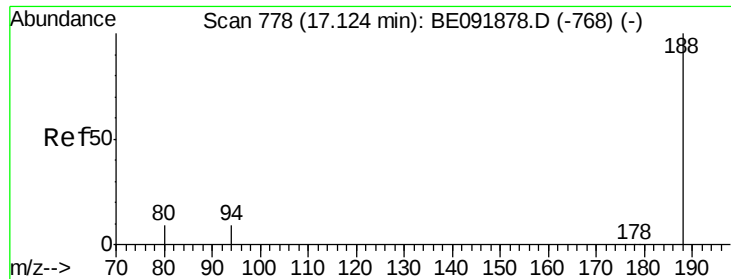


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

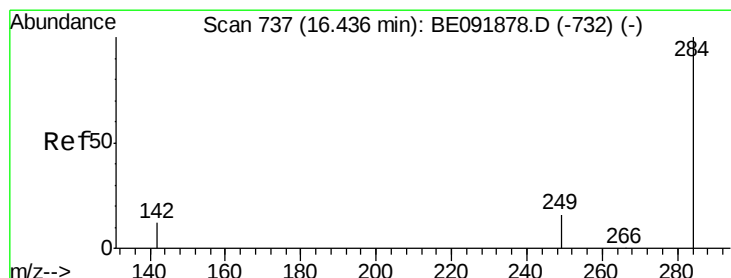
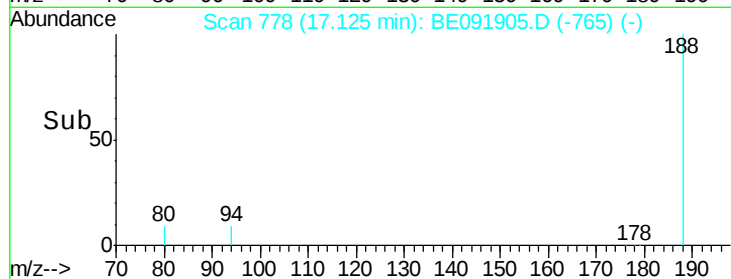
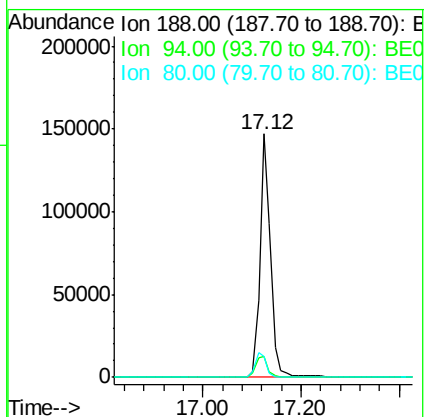
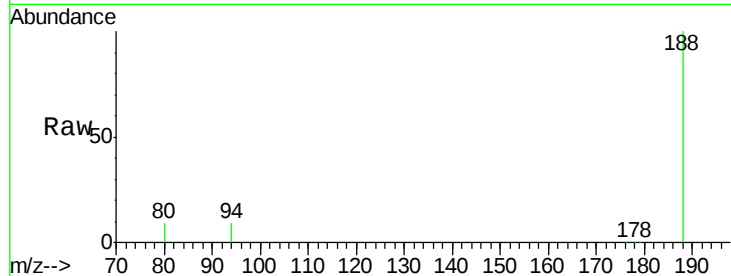




#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.12 min Scan# 778
Delta R.T. 0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

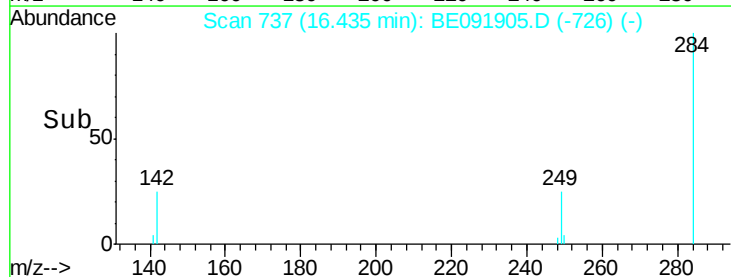
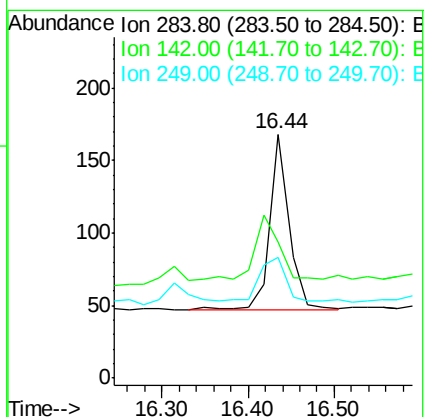
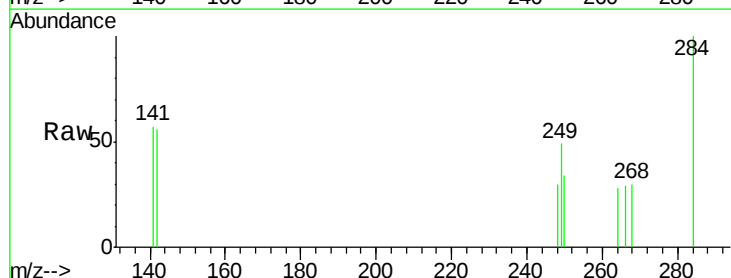
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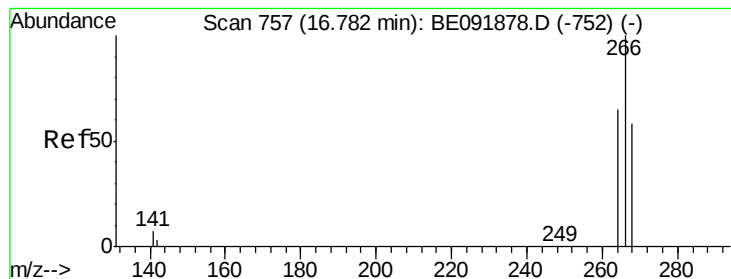
Tot Ion:188 Resp: 254735
Ion Ratio Lower Upper
188 100
94 8.8 4.1 6.1#
80 8.5 3.4 5.2#



#26
Hexachlorobenzene
Concen: 0.02 ng
RT: 16.44 min Scan# 737
Delta R.T. -0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

Tgt Ion:284 Resp: 195
Ion Ratio Lower Upper
284 100
142 46.7 31.4 47.2
249 39.5 25.3 37.9#





#27

Pentachlorophenol

Concen: 0.11 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

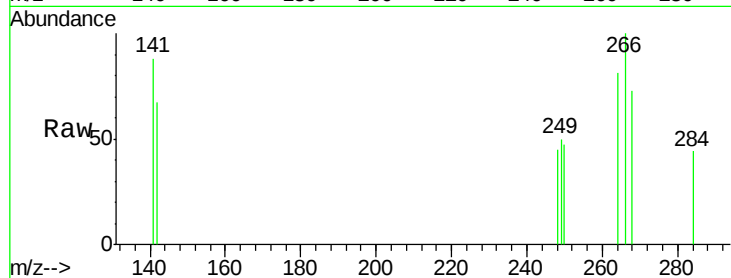
Tot Ion:266 Resp: 221

Ion Ratio Lower Upper

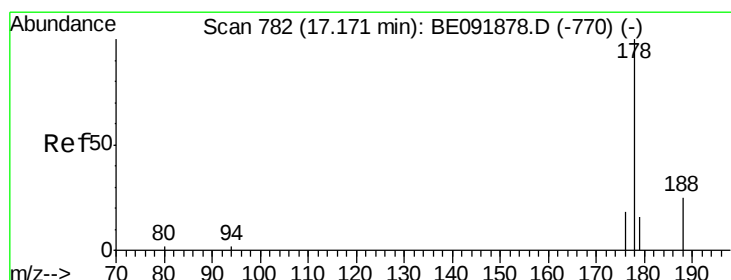
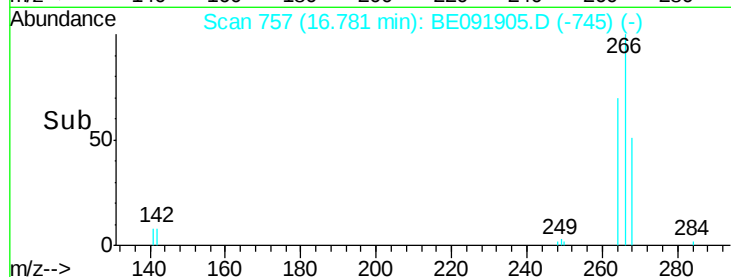
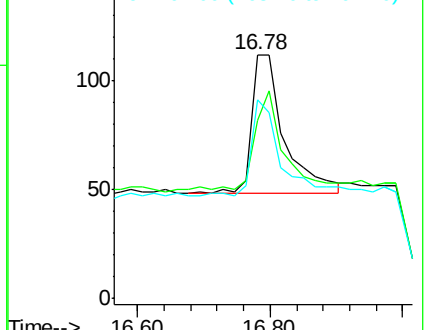
266 100

268 73.2 60.5 90.7

264 81.3 51.0 76.4#



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



#28

Phenanthrene

Concen: 0.03 ng

RT: 17.17 min Scan# 782

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

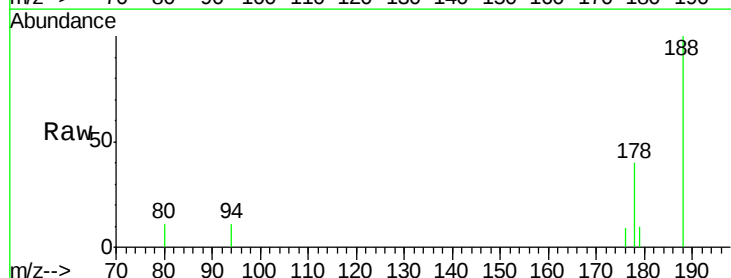
Tgt Ion:178 Resp: 1607

Ion Ratio Lower Upper

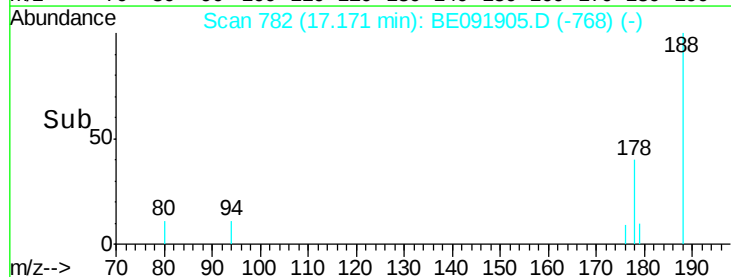
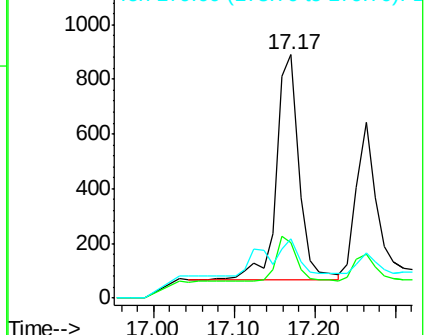
178 100

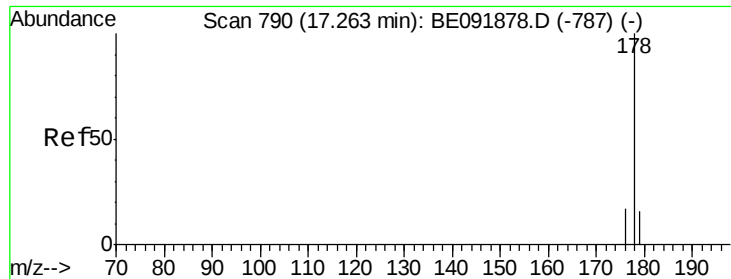
176 18.2 15.4 23.2

179 13.1 12.9 19.3



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





#29

Anthracene

Concen: 0.02 ng m

RT: 17.26 min Scan# 790

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

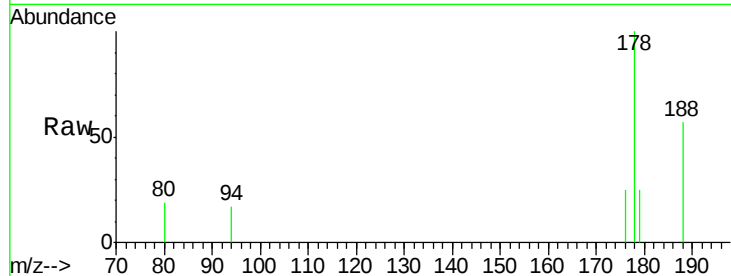
Tot Ion:178 Resp: 1178

Ion Ratio Lower Upper

178 100

176 25.5 15.1 22.7#

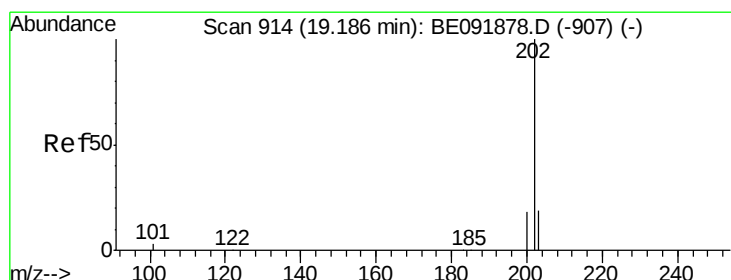
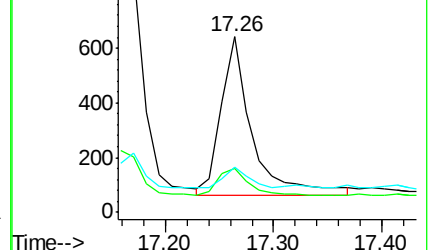
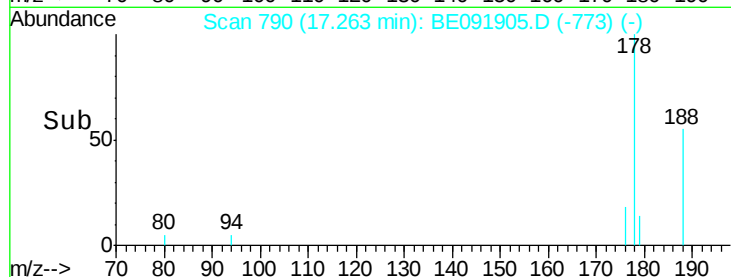
179 17.9 12.1 18.1



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



#30

Fluoranthene

Concen: 0.03 ng

RT: 19.19 min Scan# 914

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

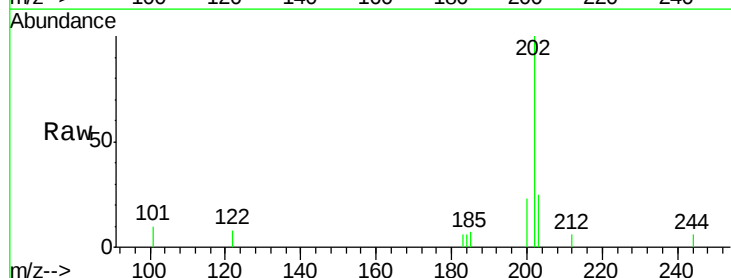
Tgt Ion:202 Resp: 1631

Ion Ratio Lower Upper

202 100

101 13.8 9.4 14.0

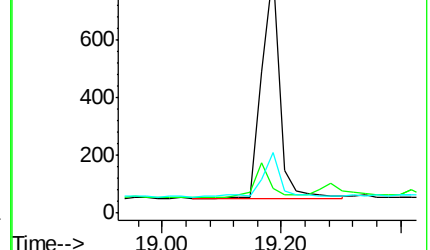
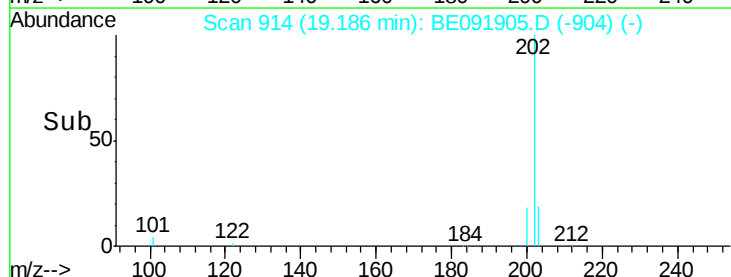
203 18.9 14.3 21.5

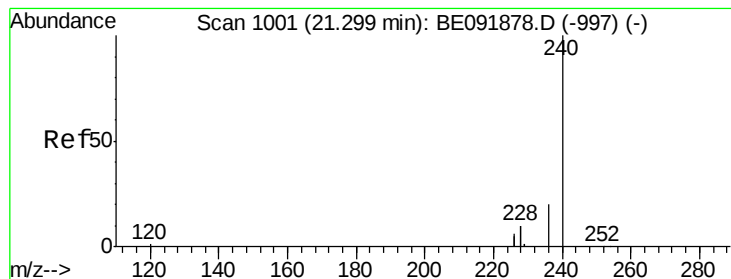


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.30 min Scan# 1001

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

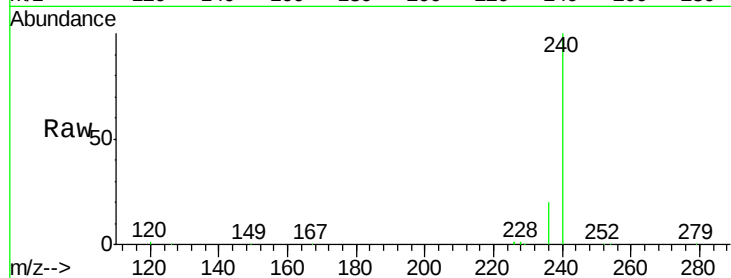
Tot Ion:240 Resp: 204285

Ion Ratio Lower Upper

240 100

120 0.7 1.2 1.8#

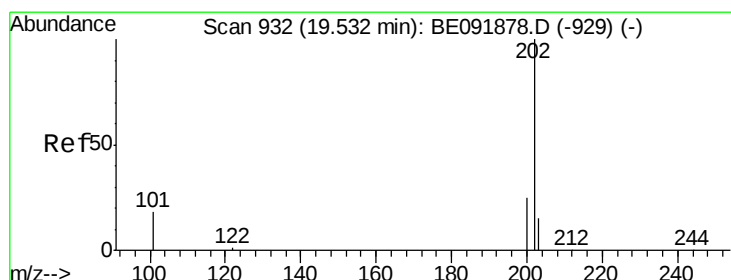
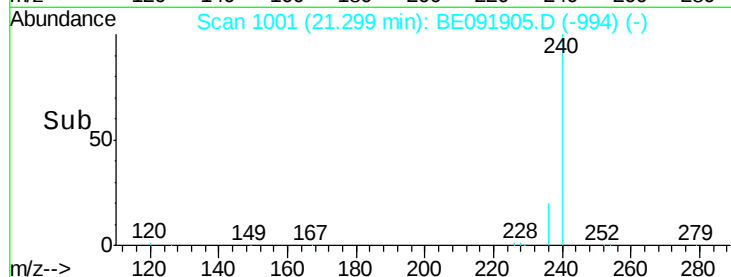
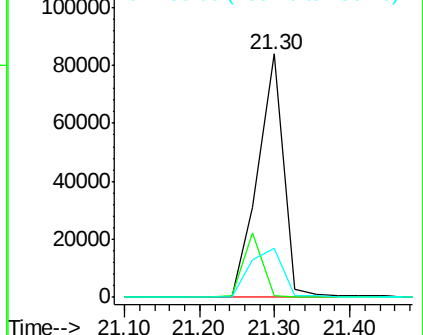
236 20.0 19.8 29.8



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



#33

Pyrene

Concen: 0.03 ng

RT: 19.53 min Scan# 932

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

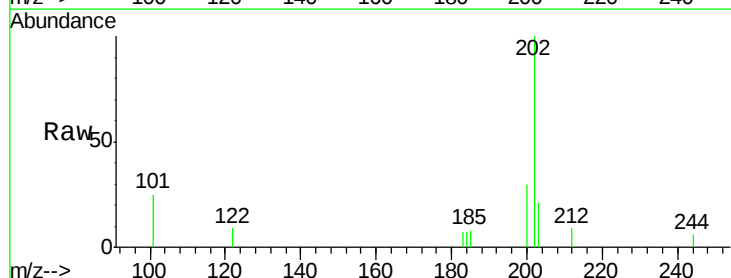
Tgt Ion:202 Resp: 1765

Ion Ratio Lower Upper

202 100

200 21.3 16.9 25.3

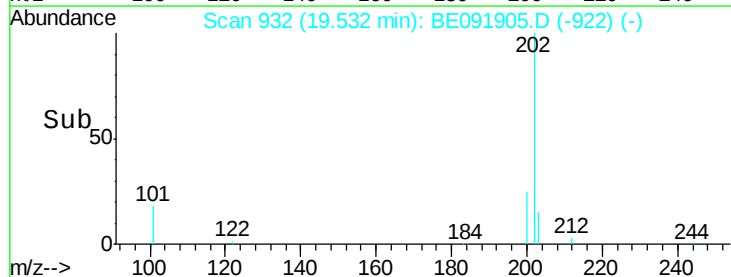
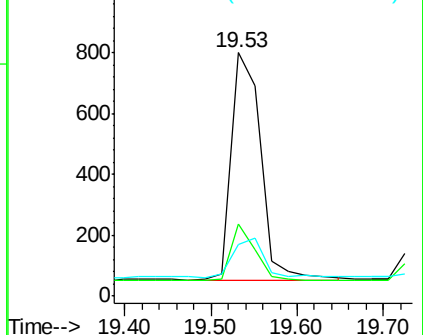
203 18.4 14.1 21.1

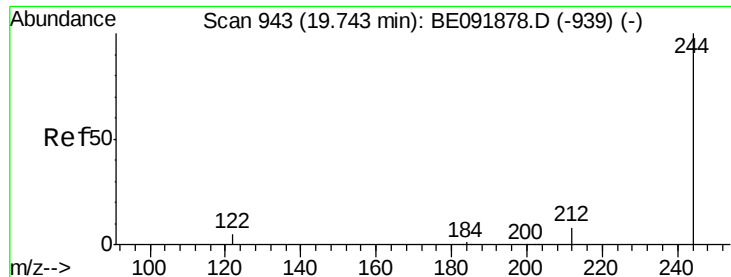


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

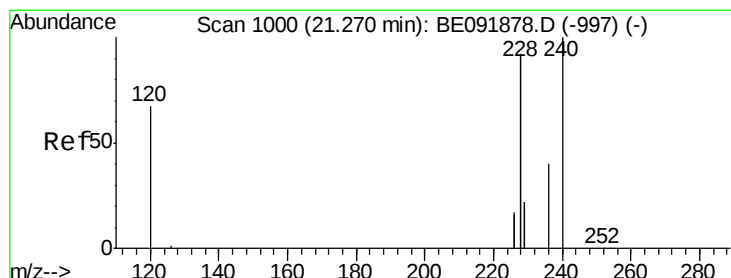
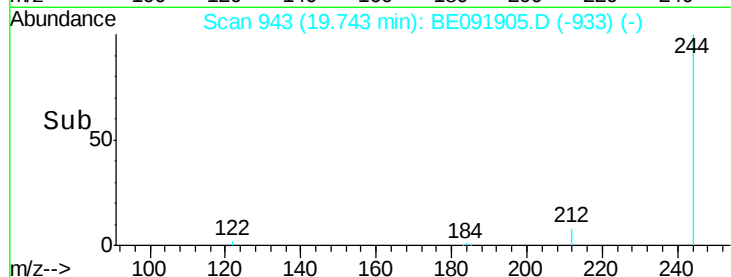
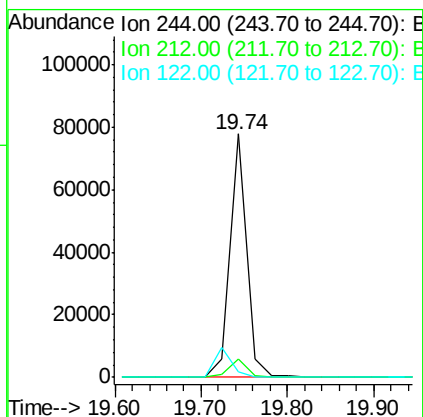
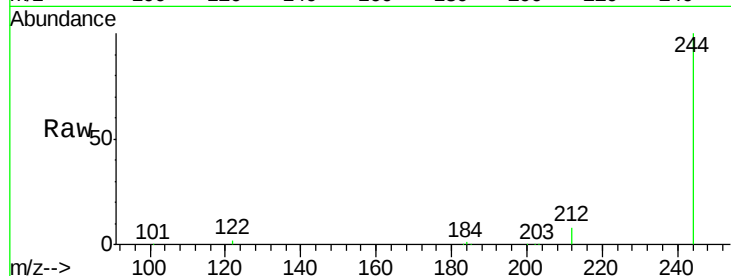




#34
 Terphenyl-d14
 Concen: 3.16 ng
 RT: 19.74 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: BE091905.D
 Acq: 8 Jun 2016 17:34

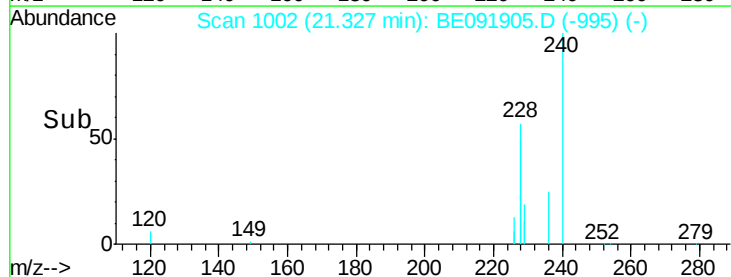
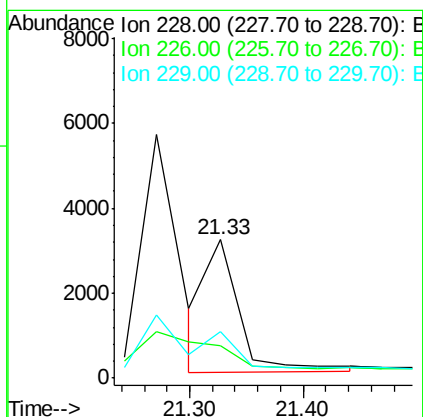
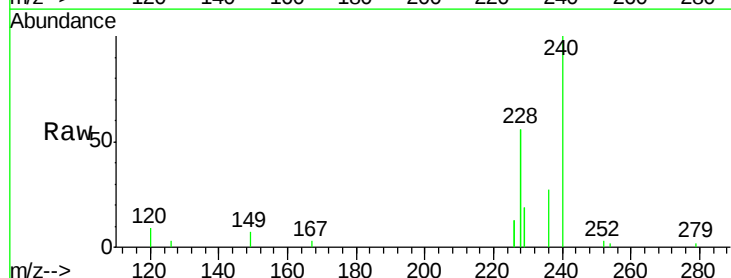
Instrument :
 BNA_E
 ClientSampleId :
 OM-SPN-001-160531RE

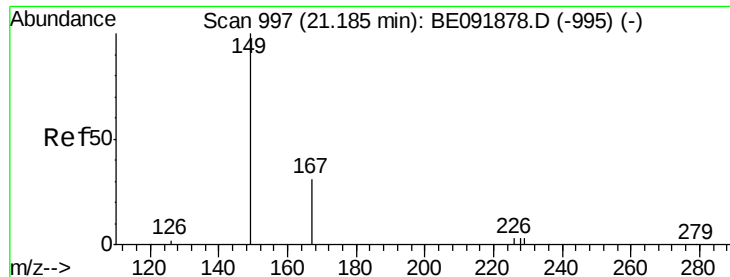
Tot Ion:244 Resp: 104871
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.5 9.7
 122 2.2 2.9 4.3#



#37
 Chrysene
 Concen: 0.03 ng m
 RT: 21.33 min Scan# 1002
 Delta R.T. 0.00 min
 Lab File: BE091905.D
 Acq: 8 Jun 2016 17:34

Tgt Ion:228 Resp: 6623
 Ion Ratio Lower Upper
 228 100
 226 23.9 27.0 40.6#
 229 33.3 13.8 20.8#

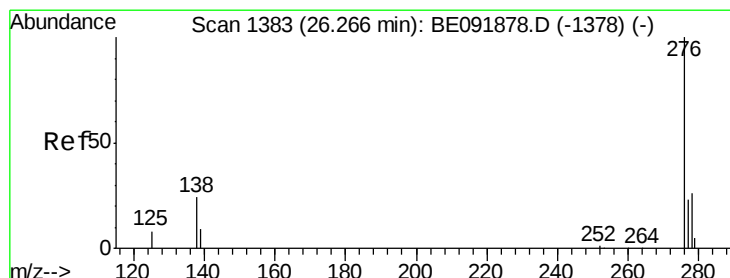
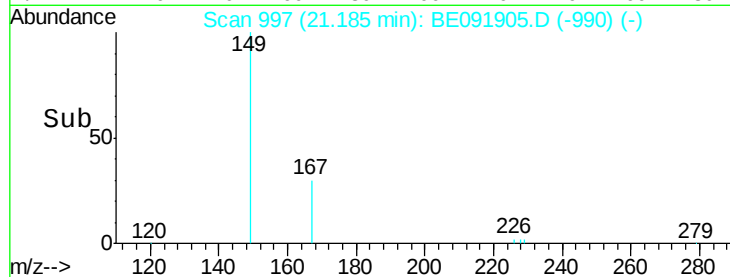
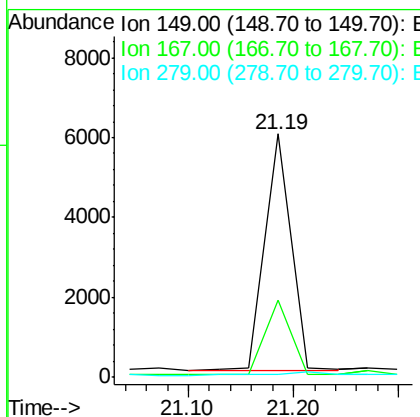
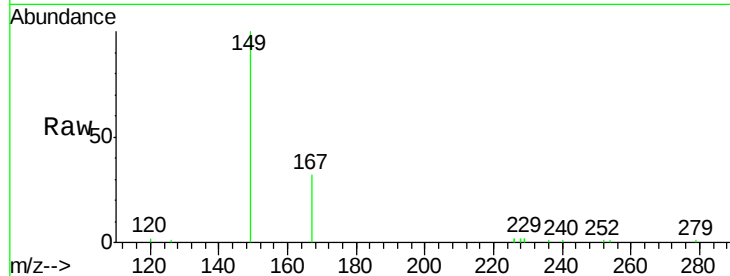




#38
 Bis(2-ethylhexyl)phthalate
 Concen: 0.39 ng
 RT: 21.19 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: BE091905.D
 Acq: 8 Jun 2016 17:34

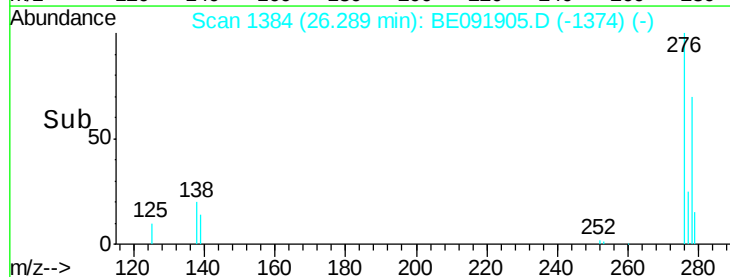
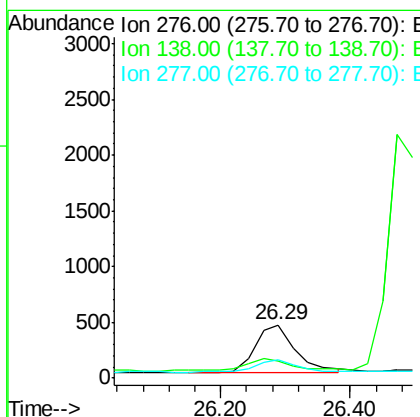
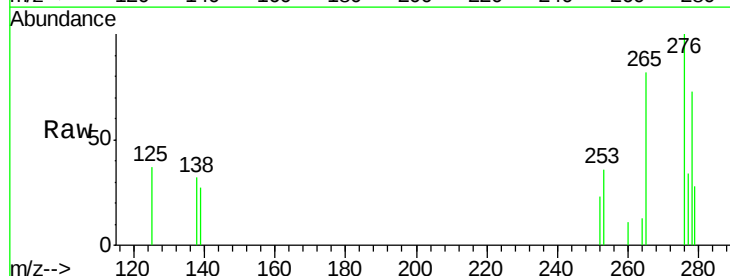
Instrument :
 BNA_E
 ClientSampleId :
 OM-SPN-001-160531RE

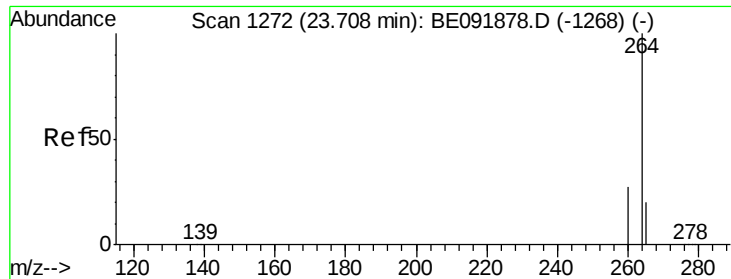
Tot Ion:149 Resp: 10240
 Ion Ratio Lower Upper
 149 100
 167 31.1 0.0 0.0#
 279 0.0 0.0 0.0



#39
 Indeno(1,2,3-cd)pyrene
 Concen: 0.07 ng
 RT: 26.29 min Scan# 1384
 Delta R.T. 0.02 min
 Lab File: BE091905.D
 Acq: 8 Jun 2016 17:34

Tgt Ion:276 Resp: 1840
 Ion Ratio Lower Upper
 276 100
 138 0.0 19.7 29.5#
 277 25.2 20.1 30.1

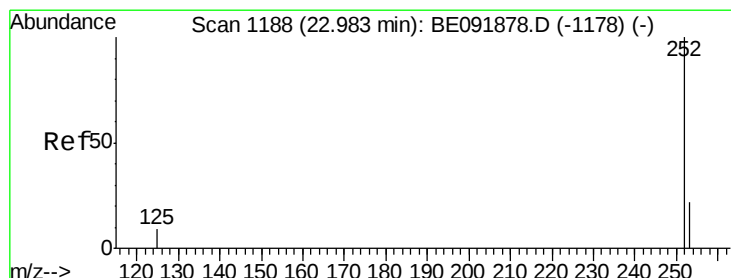
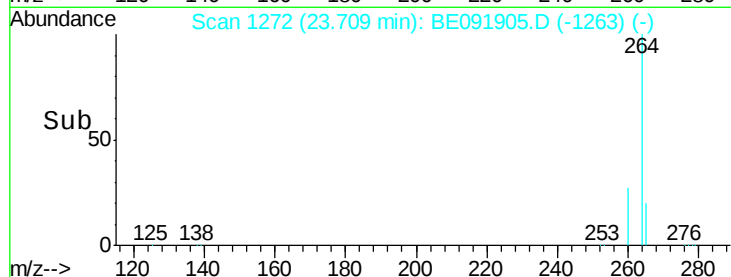
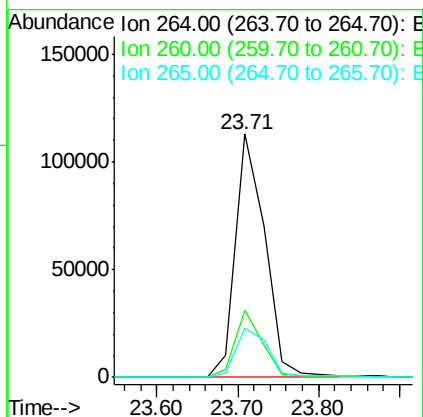
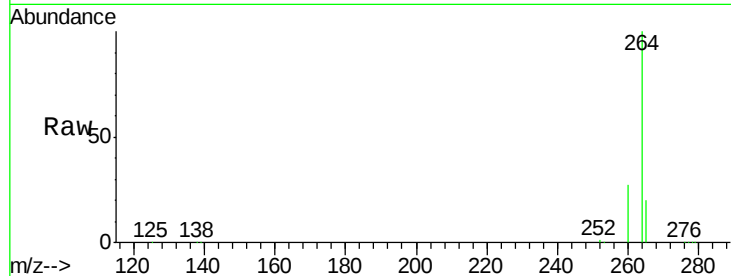




#40
Pervlene-d12
Concen: 5.00 ng
RT: 23.71 min Scan# 1272
Delta R.T. 0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

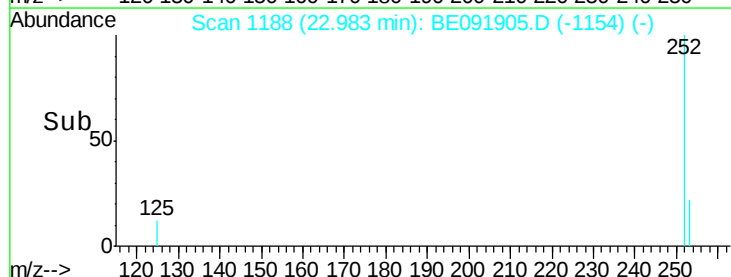
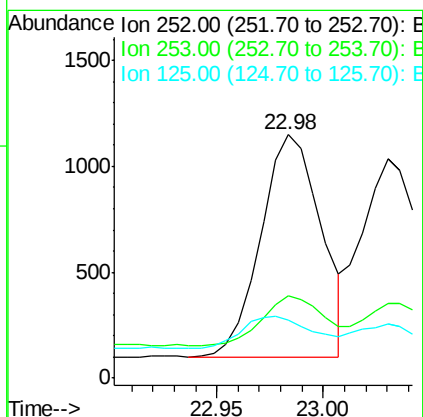
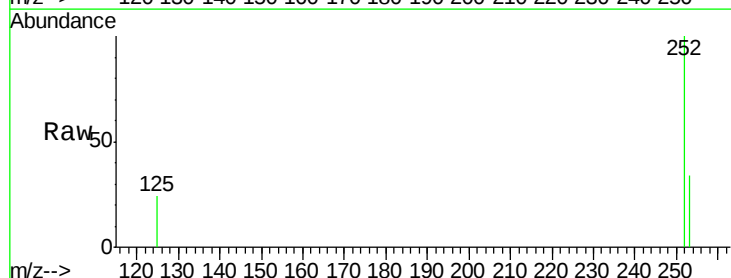
Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531RE

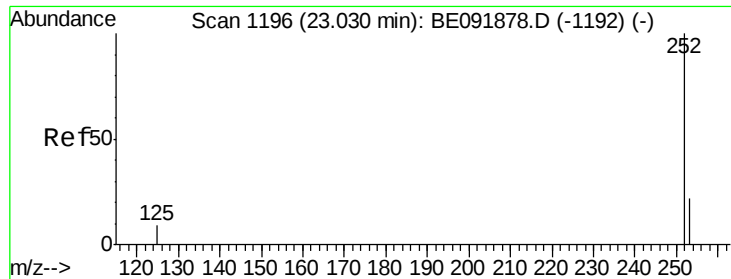
Tot Ion:264 Resp: 282812
Ion Ratio Lower Upper
264 100
260 27.4 20.3 30.5
265 20.1 17.6 26.4



#41
Benzo(b)fluoranthene
Concen: 0.03 ng
RT: 22.98 min Scan# 1188
Delta R.T. 0.00 min
Lab File: BE091905.D
Acq: 8 Jun 2016 17:34

Tgt Ion:252 Resp: 2060
Ion Ratio Lower Upper
252 100
253 33.9 17.8 26.6#
125 24.0 9.4 14.2#





#42

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 23.03 min Scan# 1196

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

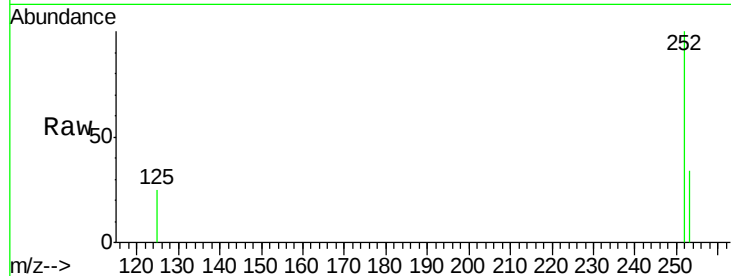
Tot Ion:252 Resp: 1995

Ion Ratio Lower Upper

252 100

253 34.3 19.4 29.2#

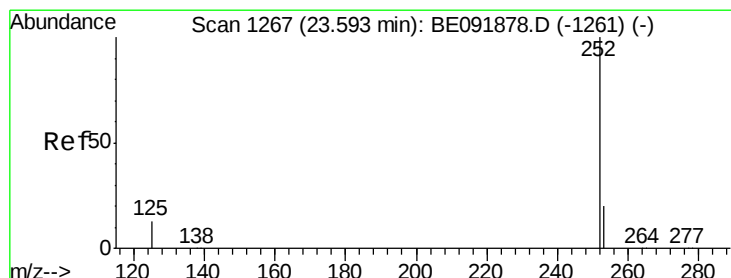
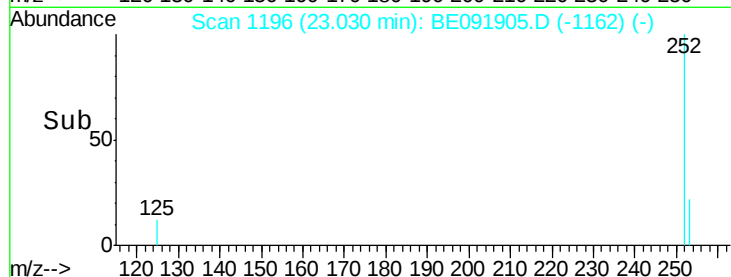
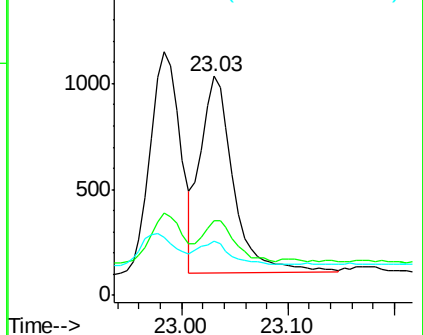
125 24.7 8.3 12.5#



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



#43

Benzo(a)pyrene

Concen: 0.03 ng

RT: 23.59 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

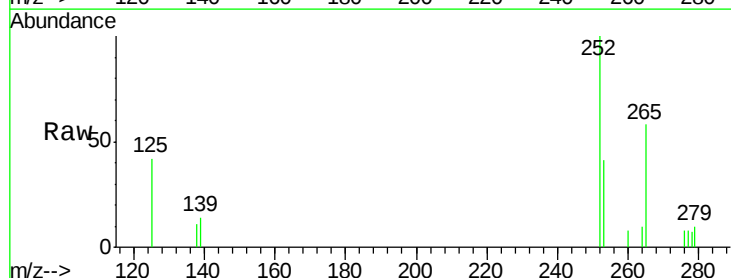
Tgt Ion:252 Resp: 1704

Ion Ratio Lower Upper

252 100

253 41.4 18.9 28.3#

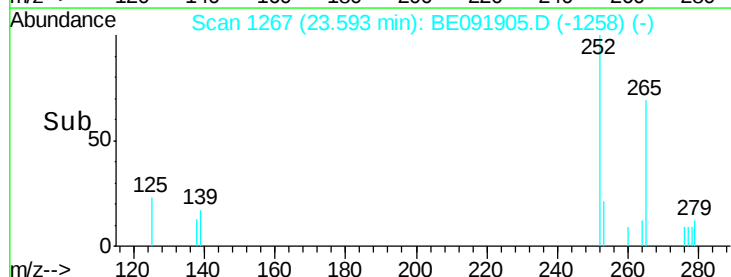
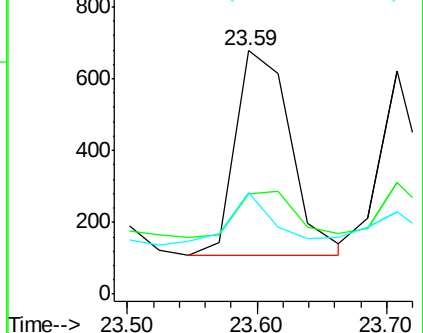
125 41.6 10.5 15.7#

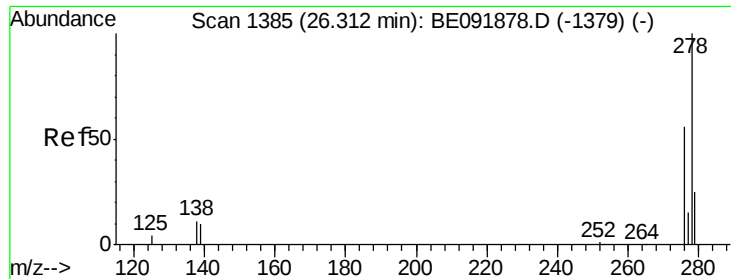


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#44

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.31 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531RE

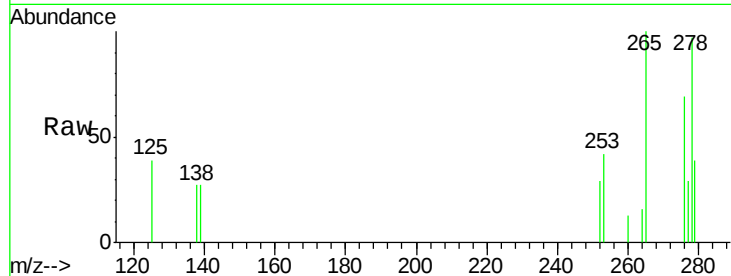
Tot Ion:278 Resp: 1436

Ion Ratio Lower Upper

278 100

139 27.5 12.6 18.8#

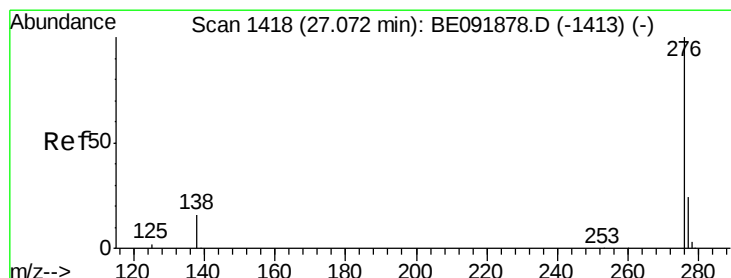
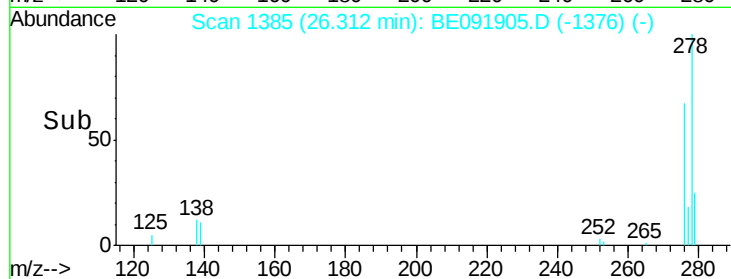
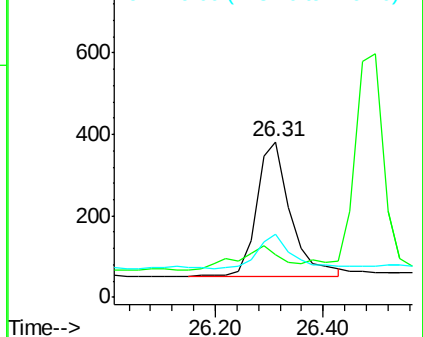
279 40.3 20.0 30.0#



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



#45

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 27.07 min Scan# 1418

Delta R.T. 0.00 min

Lab File: BE091905.D

Acq: 8 Jun 2016 17:34

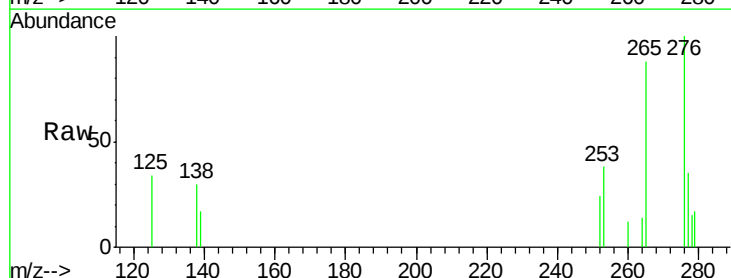
Tgt Ion:276 Resp: 1657

Ion Ratio Lower Upper

276 100

277 34.6 19.5 29.3#

138 30.1 17.7 26.5#



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

