

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080517\
 Data File : BE093678.D
 Acq On : 5 Aug 2017 17:01
 Operator : SJ/JU
 Sample : I4427-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LASB-12-1

Quant Time: Aug 06 02:43:35 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE080117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 10:58:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.92	152	2845	0.40	ng	-0.01
7) Naphthalene-d8	10.71	136	13407	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	7849	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	19607	0.40	ng	0.00
27) Chrysene-d12	21.40	240	21106	0.40	ng	-0.01
34) Perylene-d12	23.91	264	18764	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.51	112	2858	0.34	ng	0.00
5) Phenol-d6	7.09	99	4380	0.34	ng	-0.01
8) Nitrobenzene-d5	9.06	82	3447	0.34	ng	0.00
11) 2-Methylnaphthalene-d10	12.29	152	5907	0.28	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	583	0.36	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	8526	0.27	ng	-0.02
25) Fluoranthene-d10	19.27	212	53253	0.24	ng	0.00
29) Terphenyl-d14	19.86	244	9730	0.26	ng	0.00

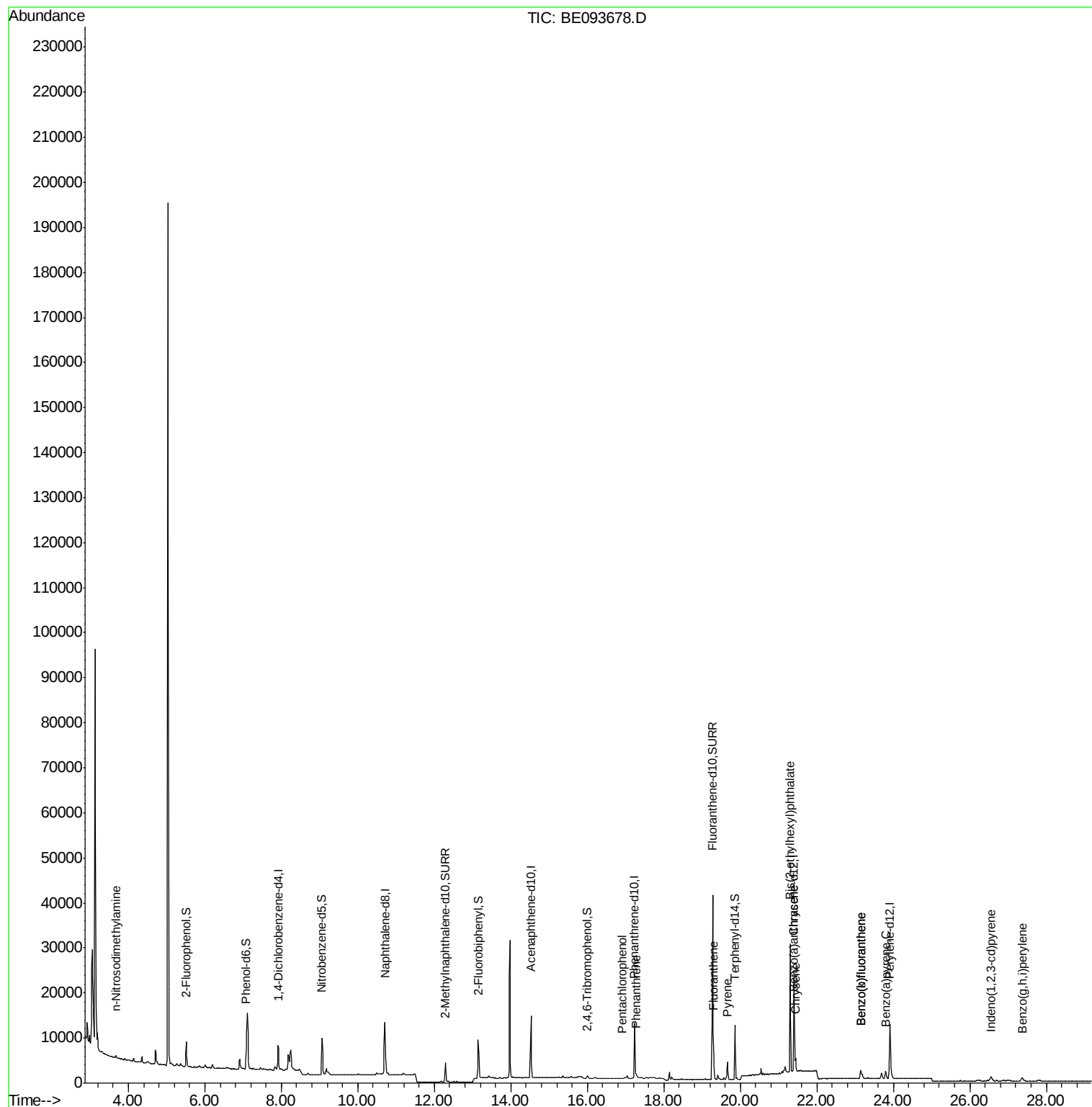
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.67	42	126	0.029	ng	# 1
21) Hexachlorobenzene	16.55	284	12	Below Cal		# 100
22) Pentachlorophenol	16.91	266	59	0.166	ng	# 63
23) Phenanthrene	17.27	178	980	0.023	ng	# 87
26) Fluoranthene	19.30	202	4023	0.059	ng	# 97
28) Pyrene	19.67	202	3769	0.055	ng	# 89
30) Benzo(a)anthracene	21.39	228	3036	0.049	ng	94
31) Chrysene	21.45	228	2718	0.039	ng	92
32) Bis(2-ethylhexyl)phthalate	21.30	149	30340	0.359	ng	98
33) Indeno(1,2,3-cd)pyrene	26.55	276	1719	0.027	ng	# 92
35) Benzo(b)fluoranthene	23.14	252	3674	0.055	ng	# 79
36) Benzo(k)fluoranthene	23.14	252	3674	0.054	ng	# 81
37) Benzo(a)pyrene	23.80	252	2459	0.041	ng	# 80
39) Benzo(g,h,i)perylene	27.36	276	1733	0.029	ng	# 88

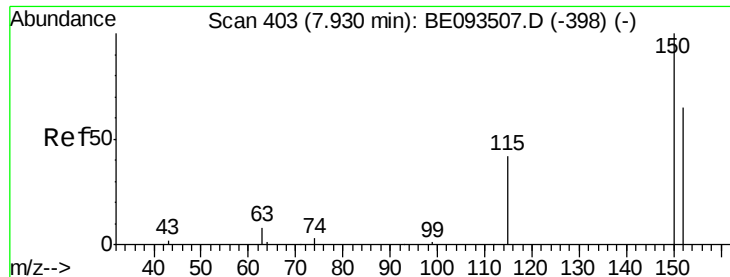
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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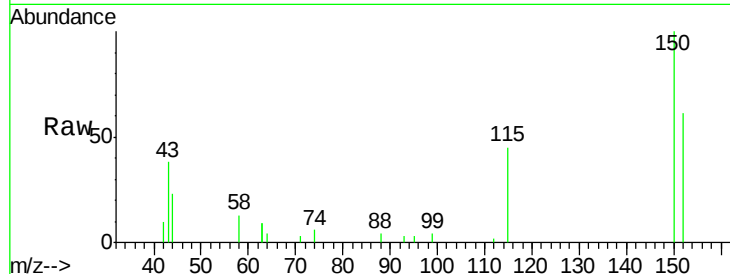


#1

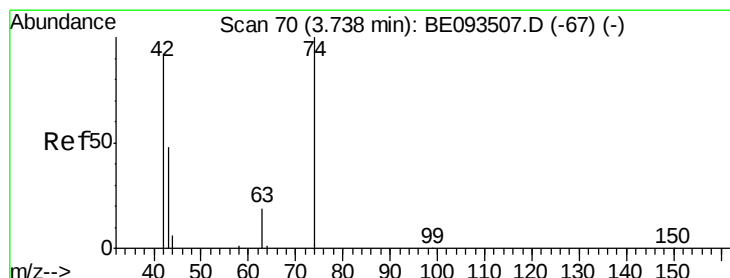
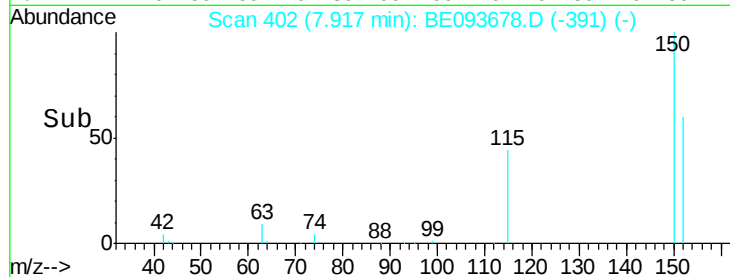
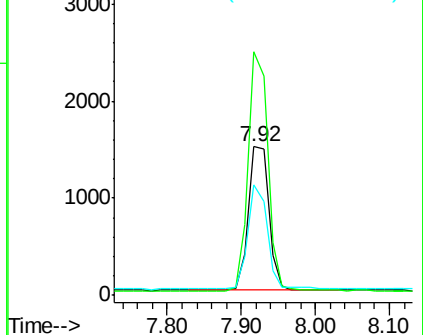
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.92 min Scan# 402
 Delta R.T. -0.01 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

Instrument :
 BNA_E
 ClientSampleId :
 LASB-12-1

Tgt Ion: 152 Resp: 2845
 Ion Ratio Lower Upper
 152 100
 150 163.6 125.1 187.7
 115 74.2 55.7 83.5



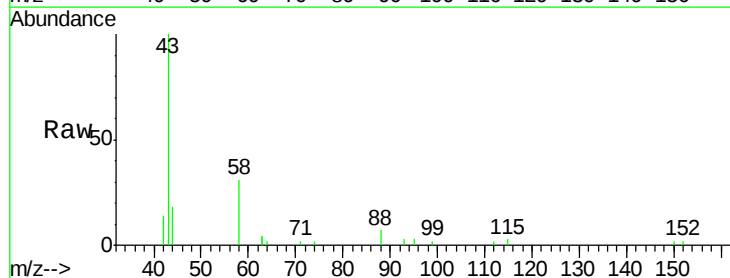
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



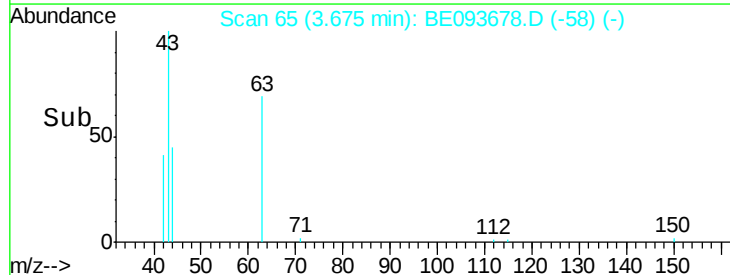
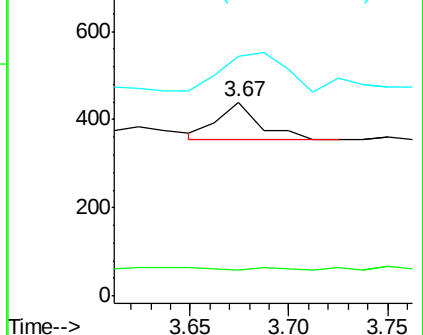
#3

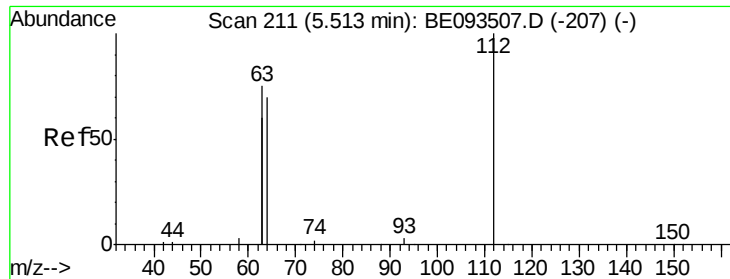
n-Nitrosodimethylamine
 Concen: 0.029 ng
 RT: 3.67 min Scan# 65
 Delta R.T. -0.06 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

Tgt Ion: 42 Resp: 126
 Ion Ratio Lower Upper
 42 100
 74 4.0 99.1 148.7#
 44 201.6 7.4 11.2#



Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.337 ng

RT: 5.51 min Scan# 211

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

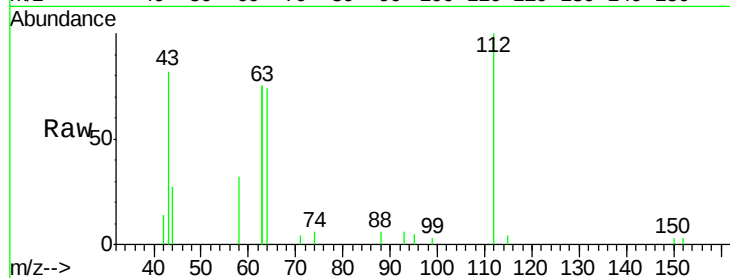
Tgt Ion: 112 Resp: 2858

Ion Ratio Lower Upper

112 100

64 70.8 56.4 84.6

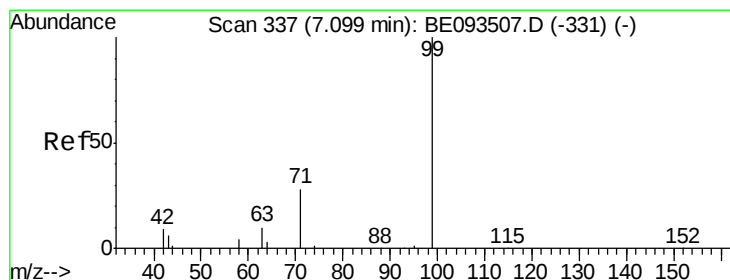
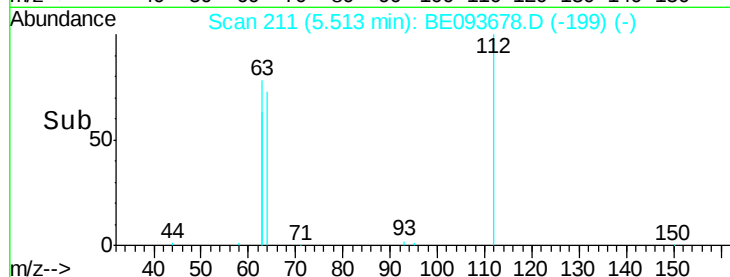
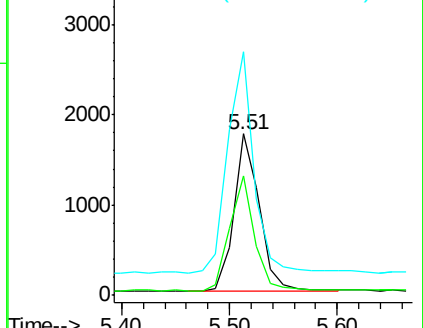
63 142.3 29.3 43.9#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.343 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

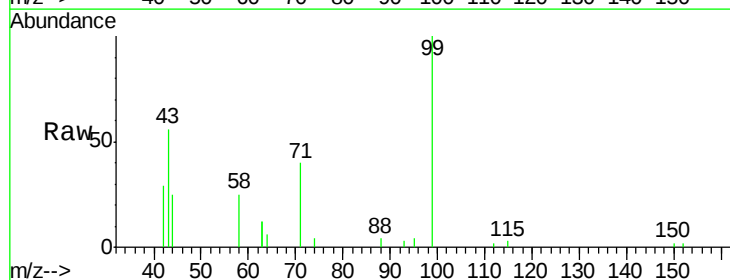
Tgt Ion: 99 Resp: 4380

Ion Ratio Lower Upper

99 100

42 29.4 0.0 0.0#

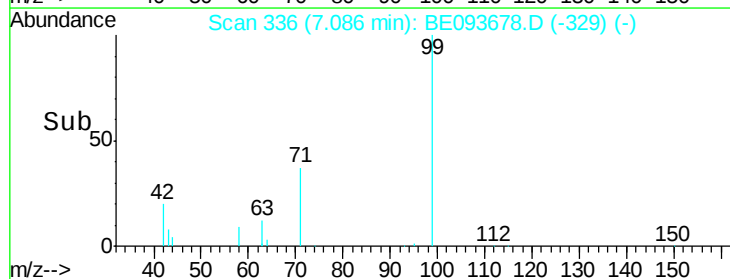
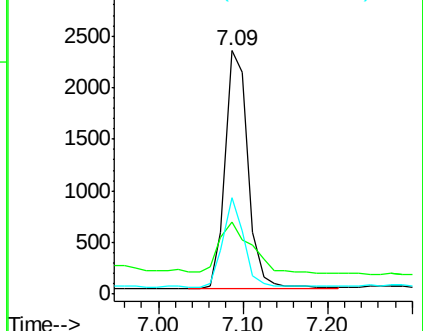
71 33.6 0.0 0.0#

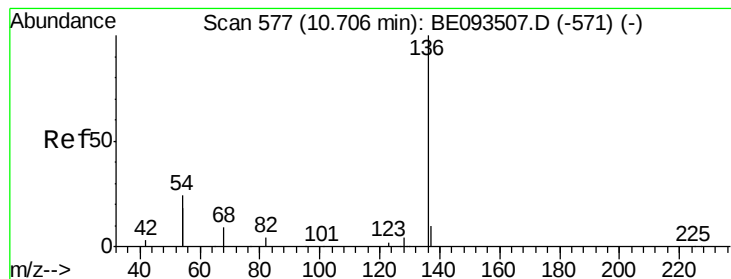


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

Tgt Ion: 136 Resp: 13407

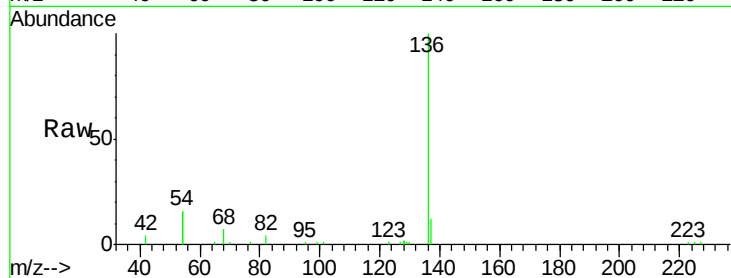
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 31.9 10.3 15.5#

68 6.8 9.0 13.4#

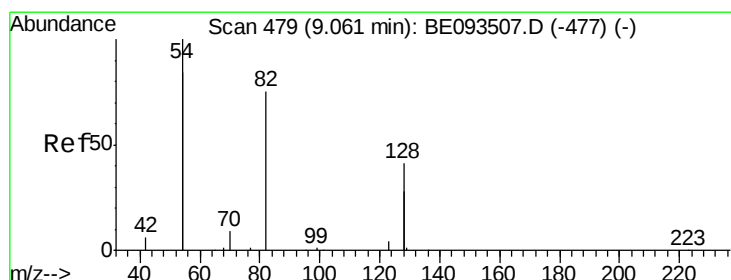
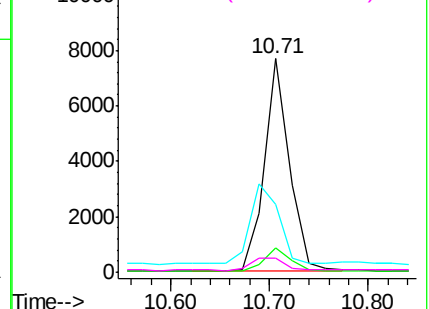
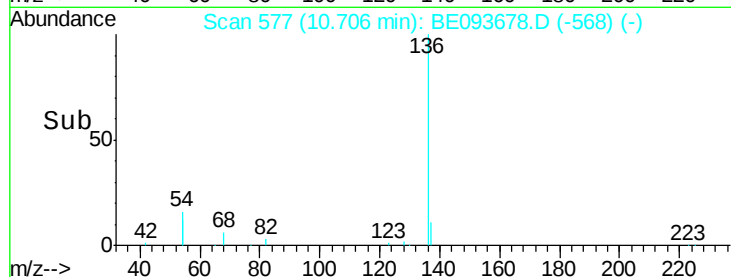


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.337 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

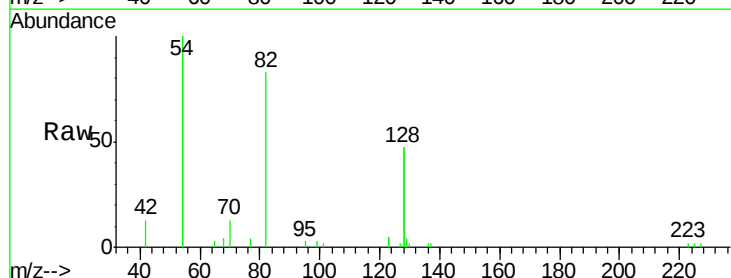
Tgt Ion: 82 Resp: 3447

Ion Ratio Lower Upper

82 100

128 113.6 17.0 25.4#

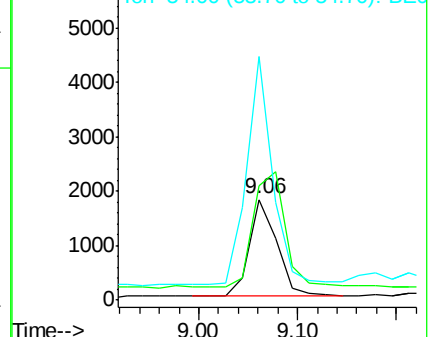
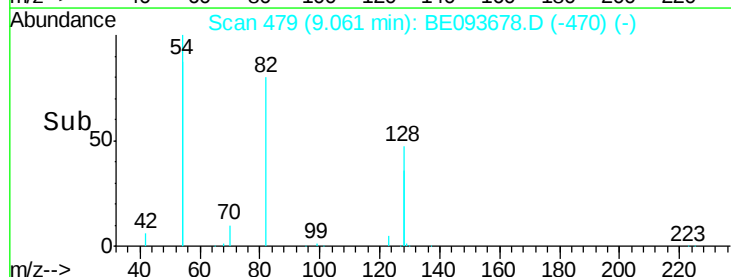
54 242.1 53.8 80.6#

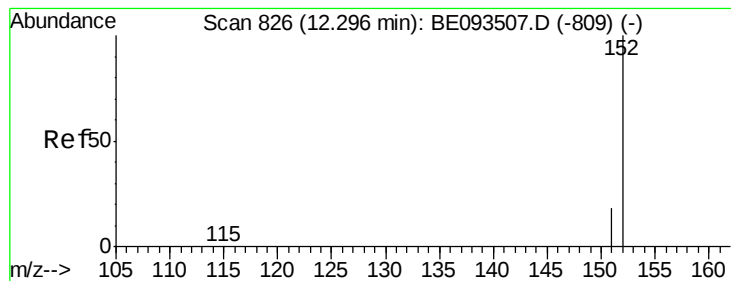


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.279 ng

RT: 12.29 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

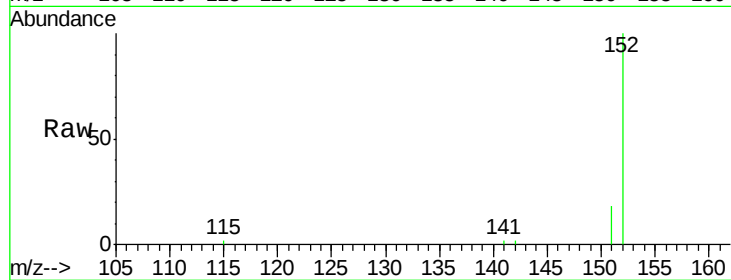
LASB-12-1

Tgt Ion:152 Resp: 5907

Ion Ratio Lower Upper

152 100

151 19.3 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.29

4000

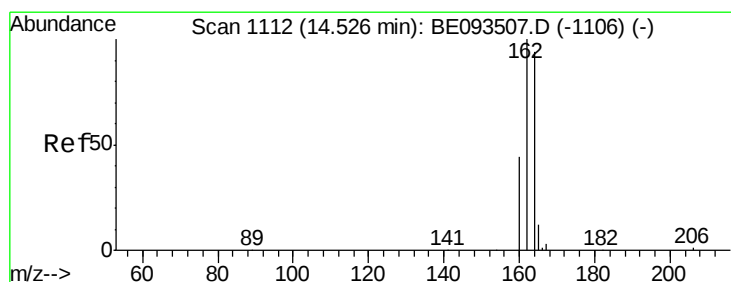
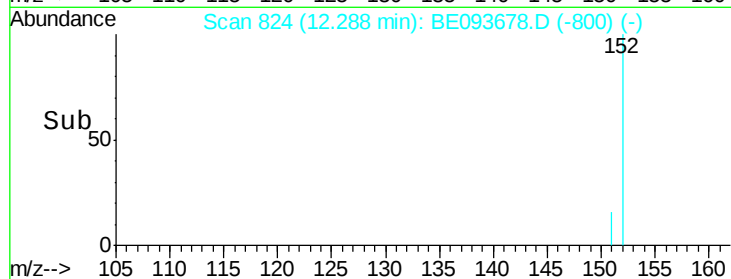
3000

2000

1000

0

Time--> 12.20 12.30 12.40



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

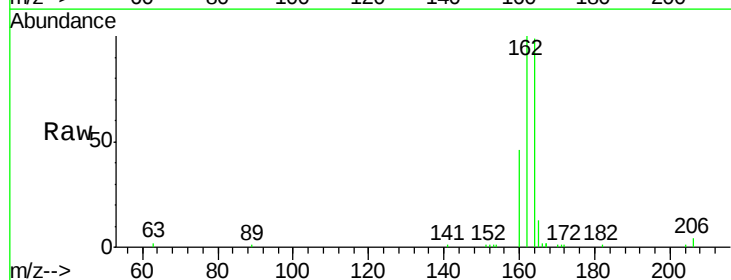
Tgt Ion:164 Resp: 7849

Ion Ratio Lower Upper

164 100

162 101.0 84.6 127.0

160 46.2 41.8 62.6



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

14.53

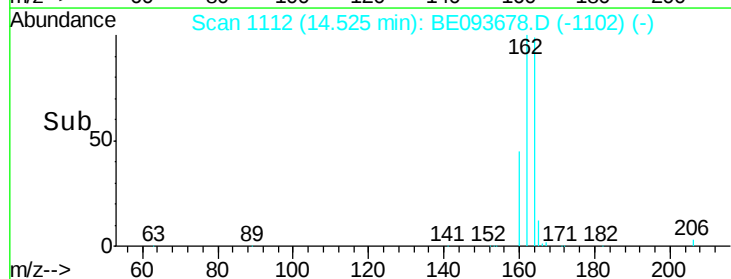
6000

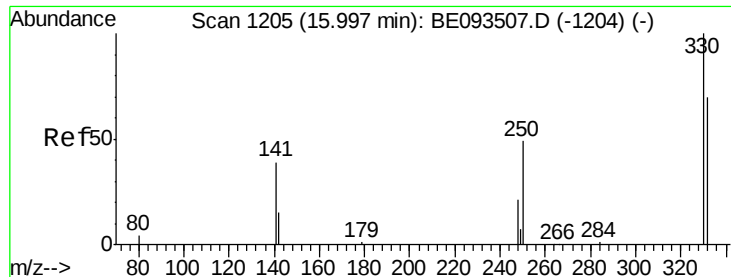
4000

2000

0

Time--> 14.40 14.50 14.60

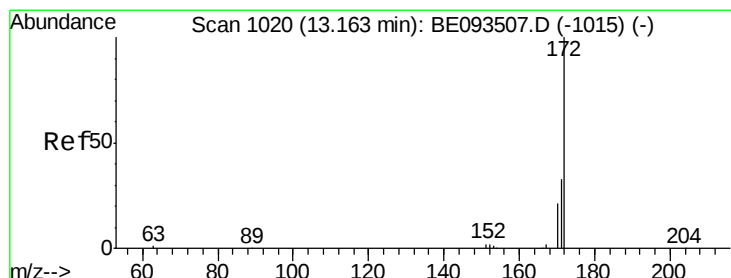
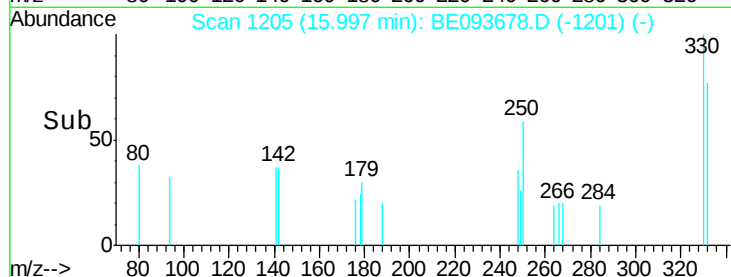
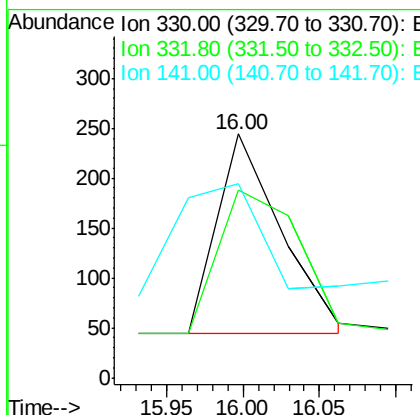
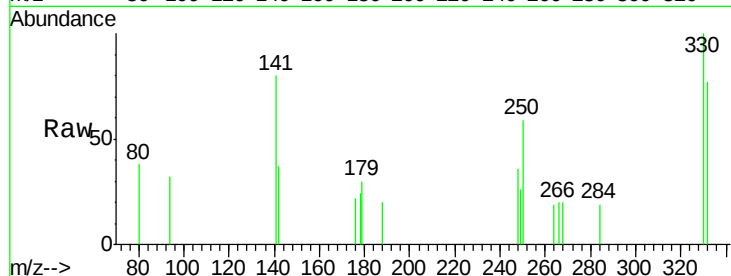




#14
 2,4,6-Tribromophenol
 Concen: 0.355 ng
 RT: 16.00 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

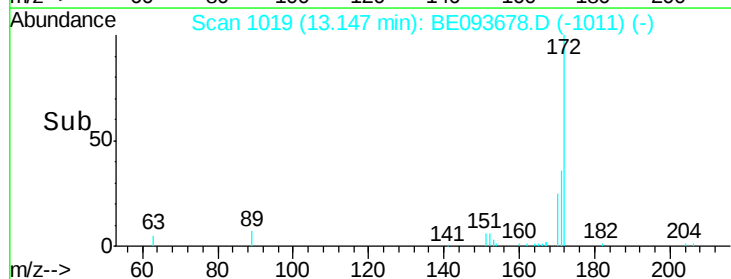
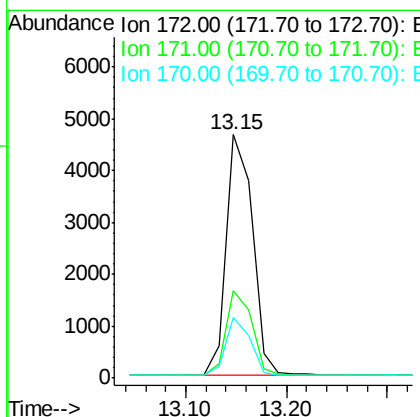
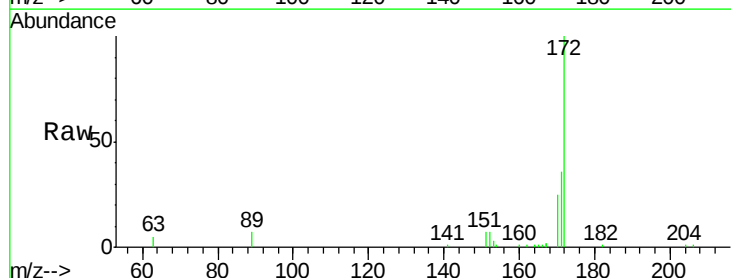
Instrument :
 BNA_E
 ClientSampled :
 LASB-12-1

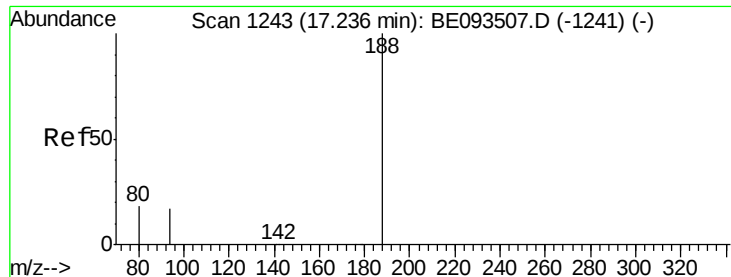
Tgt Ion: 330 Resp: 583
 Ion Ratio Lower Upper
 330 100
 332 91.6 77.7 116.5
 141 72.7 56.2 84.4



#15
 2-Fluorobiphenyl
 Concen: 0.271 ng
 RT: 13.15 min Scan# 1019
 Delta R.T. -0.02 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

Tgt Ion: 172 Resp: 8526
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.8 44.6
 170 24.7 20.7 31.1

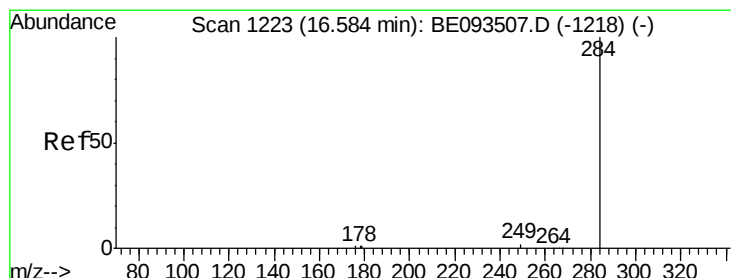
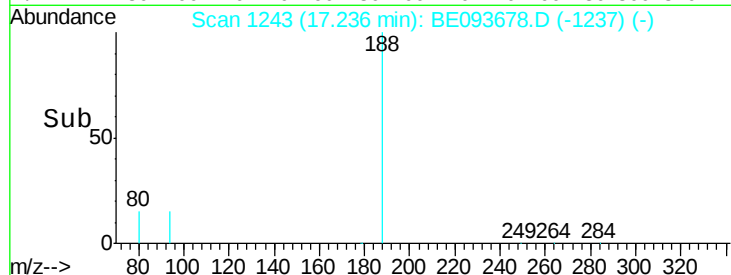
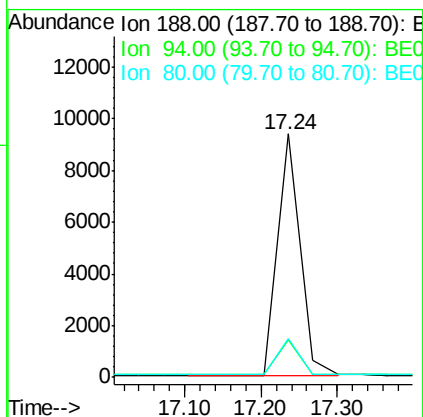
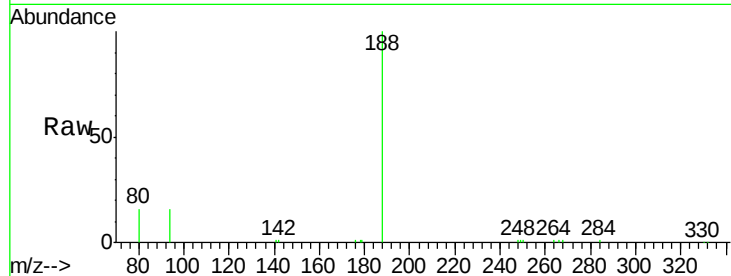




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BE093678.D
Acq: 5 Aug 2017 17:01

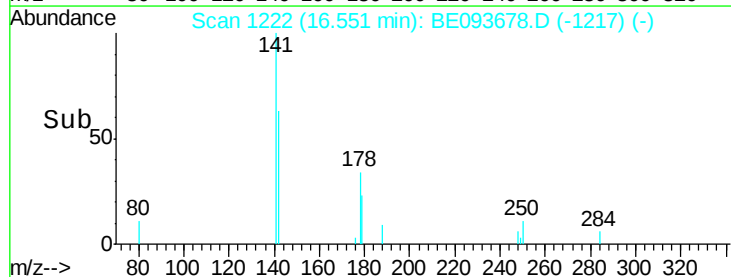
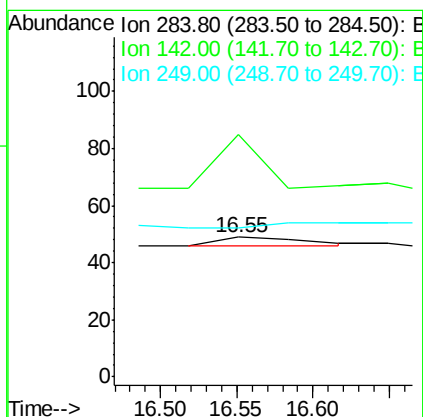
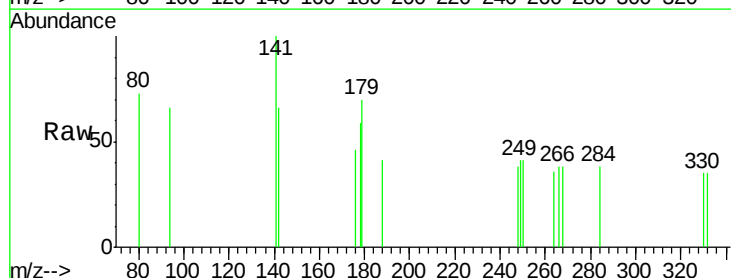
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LASB-12-1

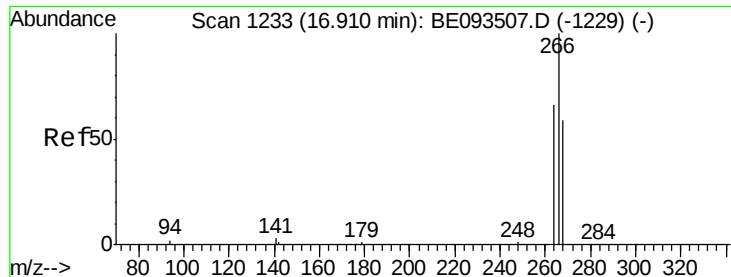
Tgt Ion:188 Resp: 19607
Ion Ratio Lower Upper
188 100
94 15.6 11.3 16.9
80 16.1 11.7 17.5



#21
Hexachlorobenzene
Concen: Below Cal
RT: 16.55 min Scan# 1222
Delta R.T. -0.03 min
Lab File: BE093678.D
Acq: 5 Aug 2017 17:01

Tgt Ion:284 Resp: 12
Ion Ratio Lower Upper
284 100
142 566.7 0.0 0.0#
249 0.0 0.0 0.0





#22

Pentachlorophenol

Concen: 0.166 ng

RT: 16.91 min Scan# 1233

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

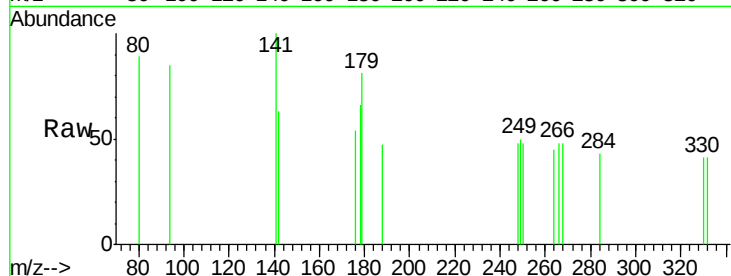
Tgt Ion:266 Resp: 59

Ion Ratio Lower Upper

266 100

264 94.3 56.0 84.0#

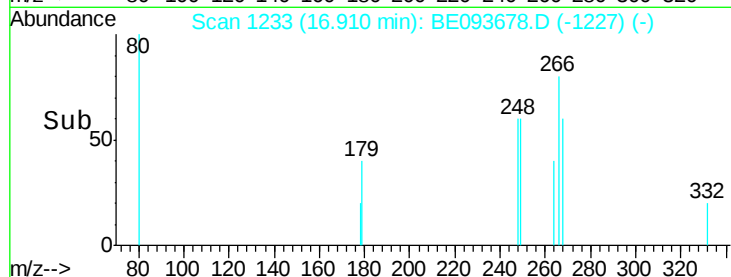
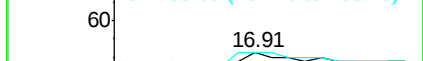
268 100.0 52.0 78.0#



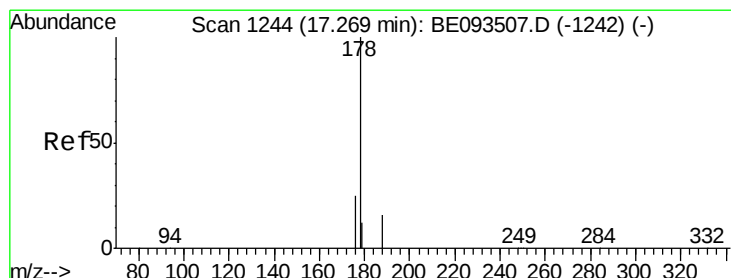
Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->



#23

Phenanthrene

Concen: 0.023 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

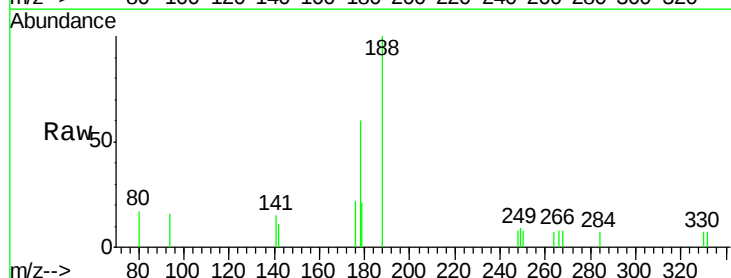
Tgt Ion:178 Resp: 980

Ion Ratio Lower Upper

178 100

176 22.6 15.0 22.4#

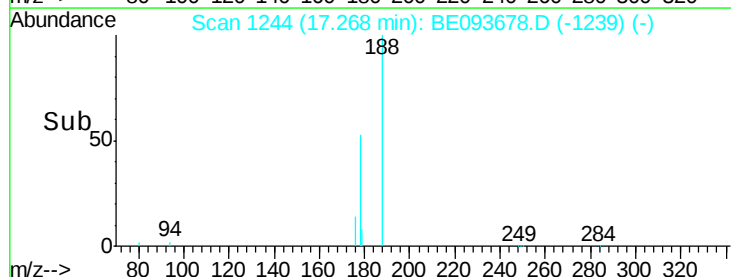
179 23.6 12.7 19.1#



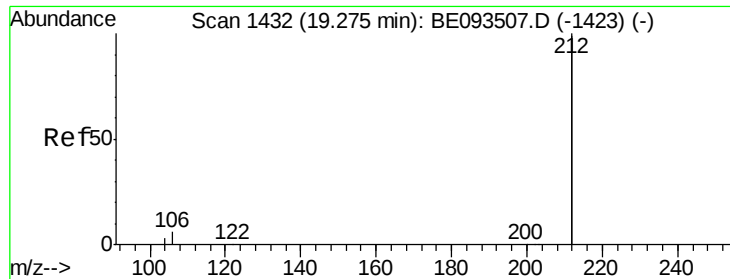
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



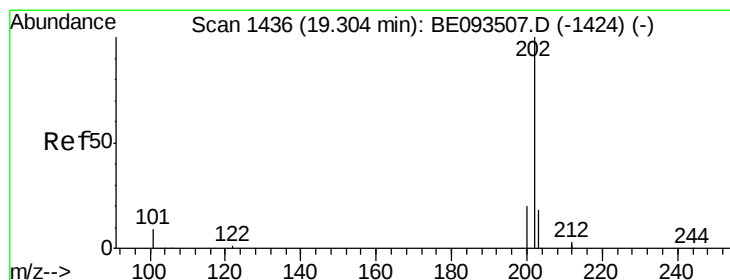
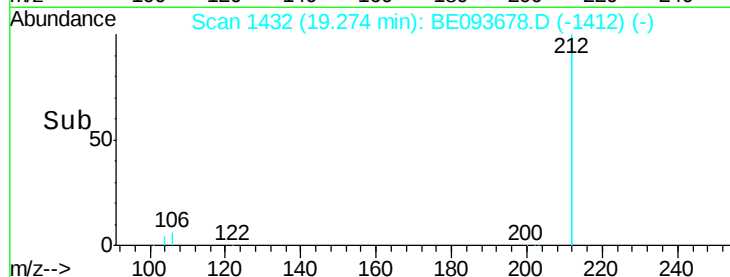
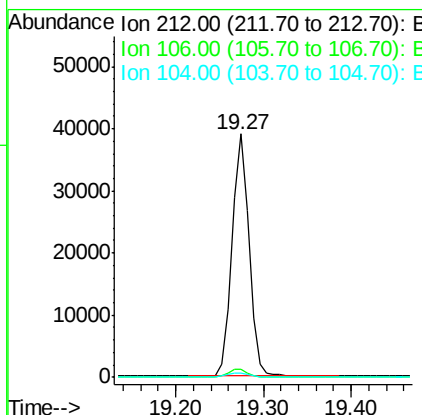
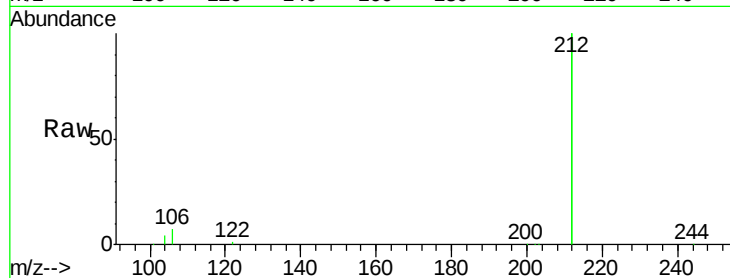
Time-->



#25
 Fluoranthene-d10
 Concen: 0.239 ng
 RT: 19.27 min Scan# 1432
 Delta R.T. -0.00 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

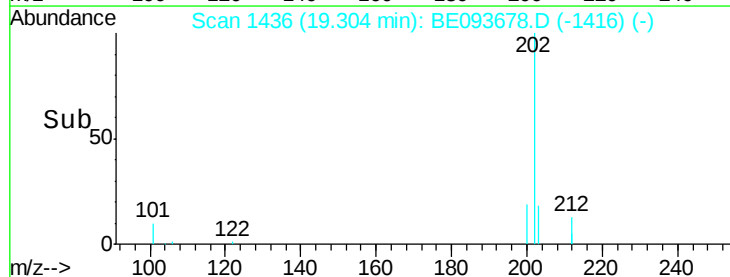
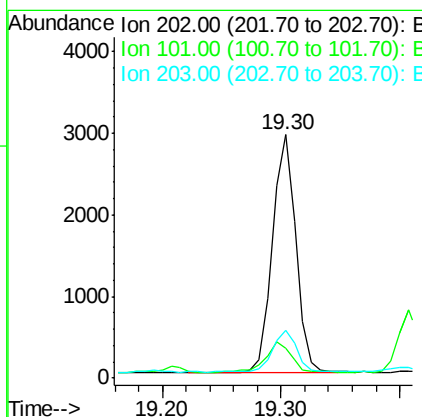
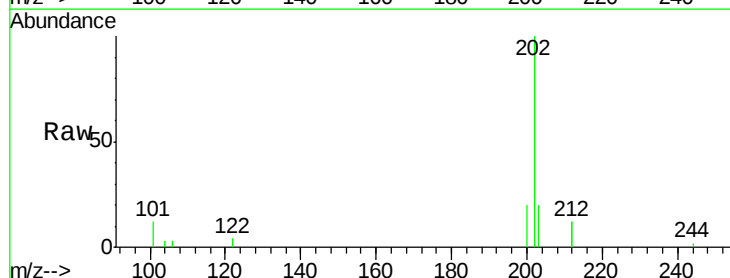
Instrument :
 BNA_E
 ClientSampleId :
 LASB-12-1

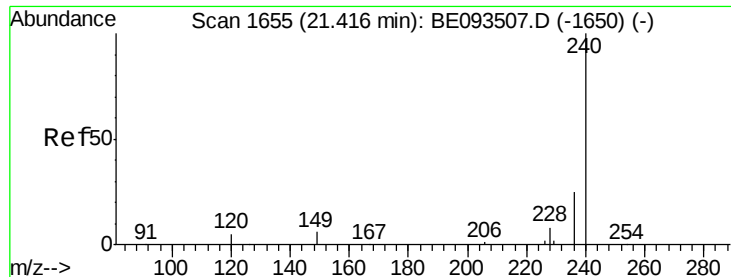
Tgt Ion: 212 Resp: 53253
 Ion Ratio Lower Upper
 212 100
 106 3.5 2.4 3.6
 104 2.1 1.6 2.4



#26
 Fluoranthene
 Concen: 0.059 ng
 RT: 19.30 min Scan# 1436
 Delta R.T. -0.00 min
 Lab File: BE093678.D
 Acq: 5 Aug 2017 17:01

Tgt Ion: 202 Resp: 4023
 Ion Ratio Lower Upper
 202 100
 101 14.5 9.6 14.4#
 203 17.5 14.4 21.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

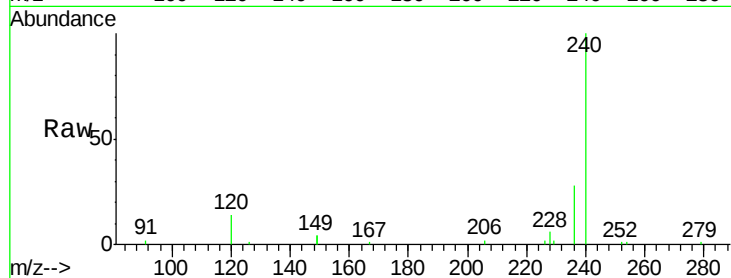
Tgt Ion:240 Resp: 21106

Ion Ratio Lower Upper

240 100

120 13.6 4.6 7.0#

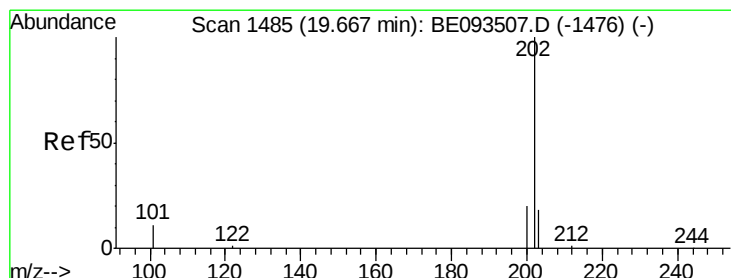
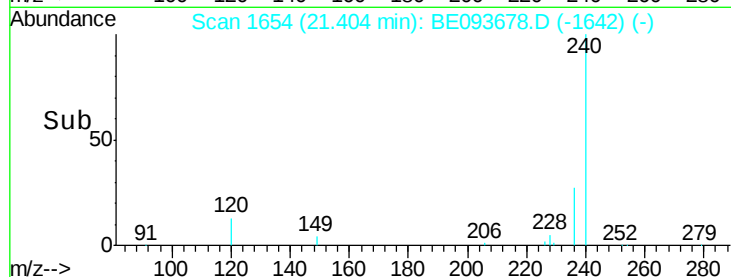
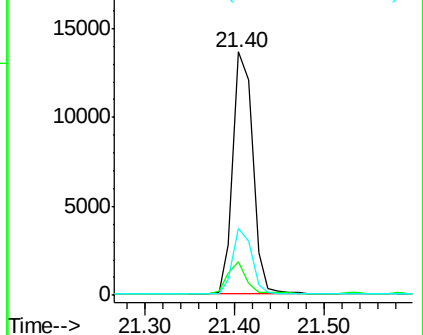
236 27.6 20.8 31.2



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



#28

Pyrene

Concen: 0.055 ng

RT: 19.67 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

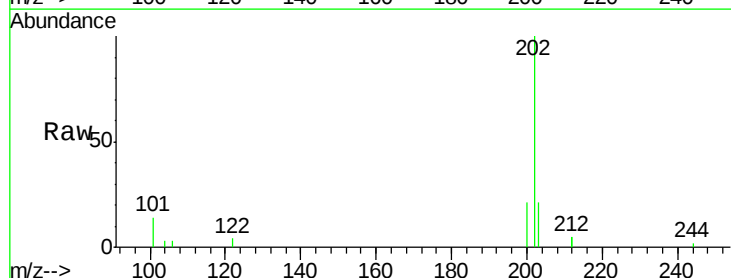
Tgt Ion:202 Resp: 3769

Ion Ratio Lower Upper

202 100

200 21.0 0.0 0.0#

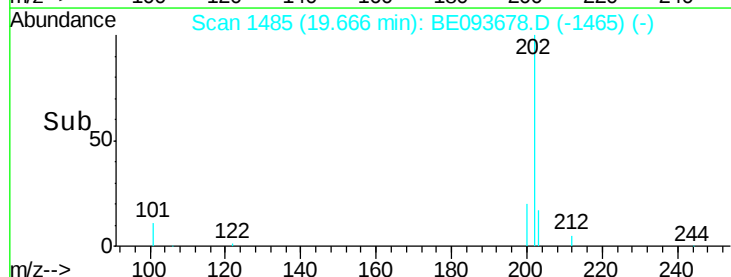
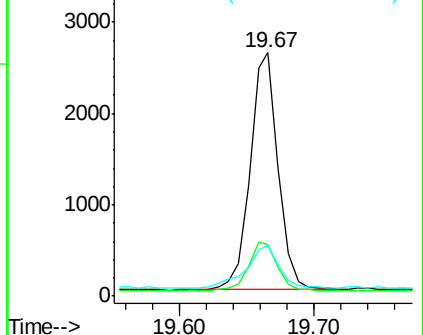
203 21.9 13.7 20.5#

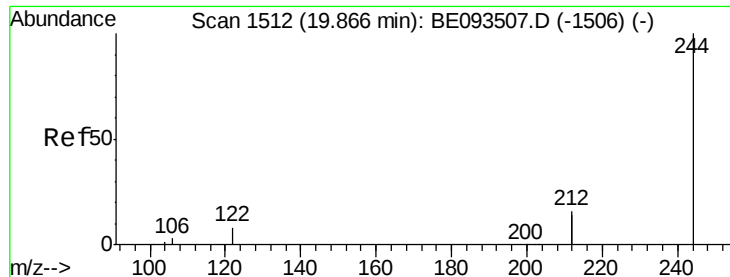


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.257 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

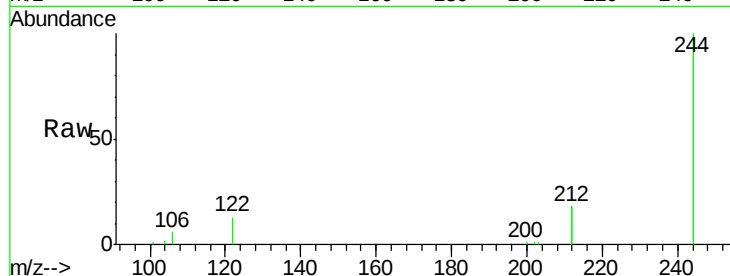
Tgt Ion:244 Resp: 9730

Ion Ratio Lower Upper

244 100

212 35.7 10.6 16.0#

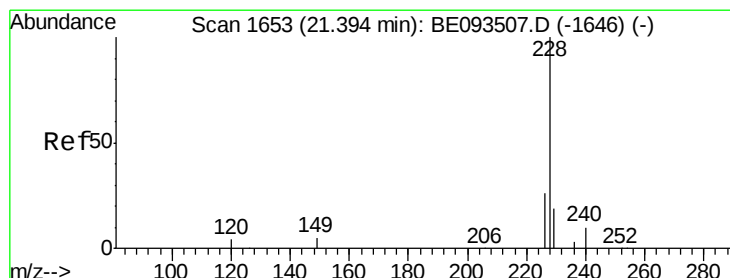
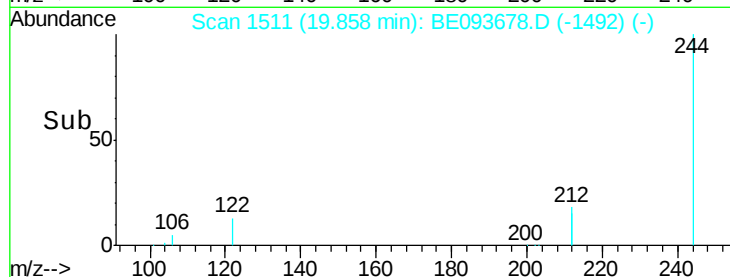
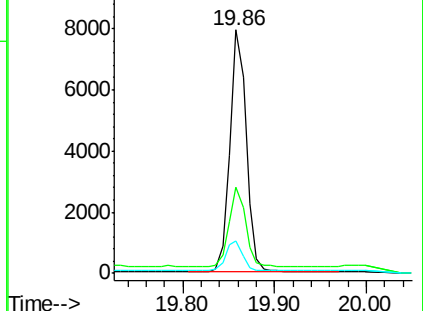
122 13.4 15.4 23.0#



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



#30

Benzo(a)anthracene

Concen: 0.049 ng

RT: 21.39 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

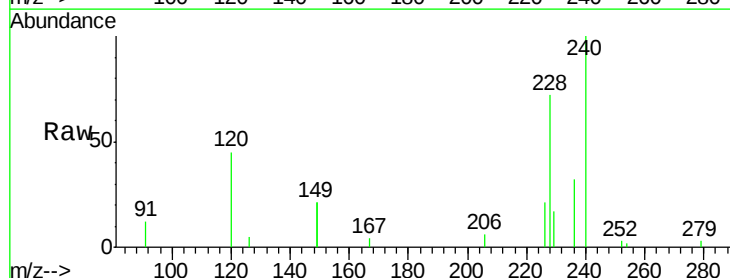
Tgt Ion:228 Resp: 3036

Ion Ratio Lower Upper

228 100

226 29.4 19.7 29.5

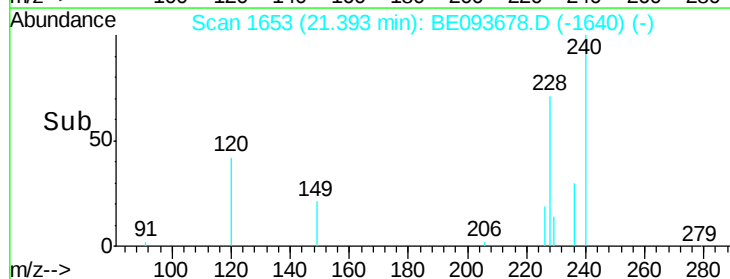
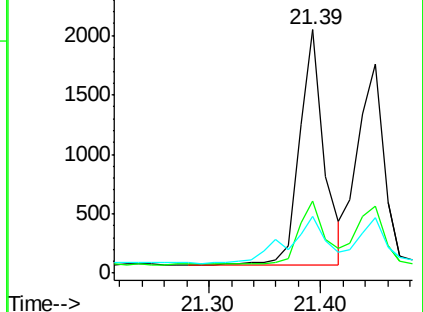
229 23.3 19.2 28.8

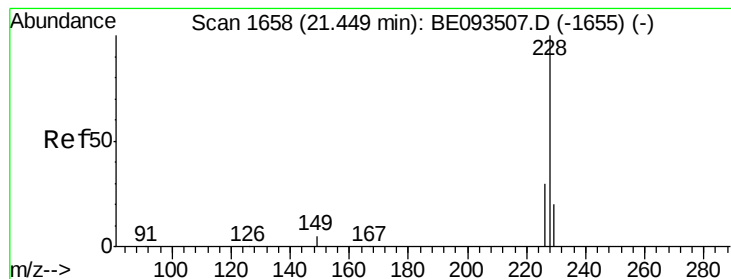


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.039 ng

RT: 21.45 min Scan# 1658

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

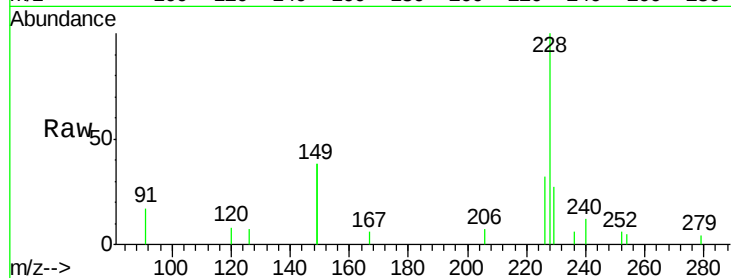
Tgt Ion:228 Resp: 2718

Ion Ratio Lower Upper

228 100

226 31.9 21.5 32.3

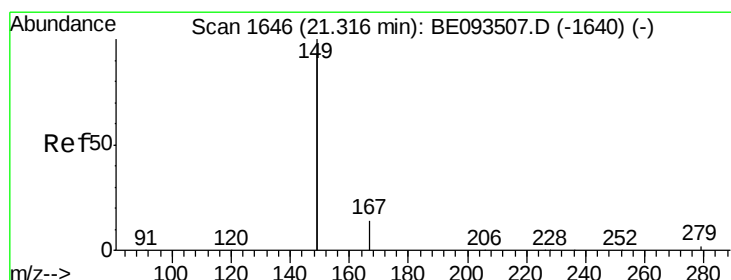
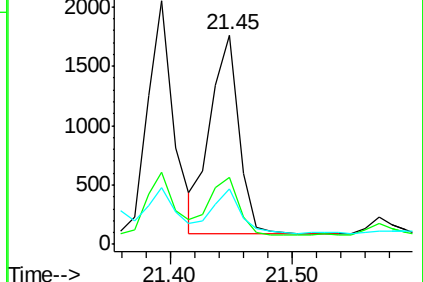
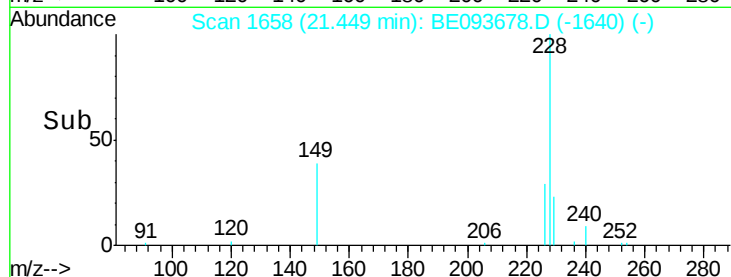
229 26.7 18.6 28.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.359 ng

RT: 21.30 min Scan# 1645

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

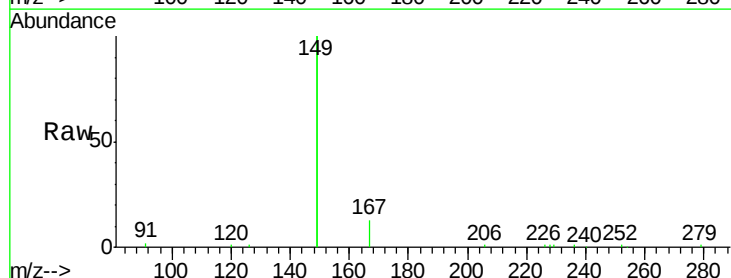
Tgt Ion:149 Resp: 30340

Ion Ratio Lower Upper

149 100

167 6.7 4.8 7.2

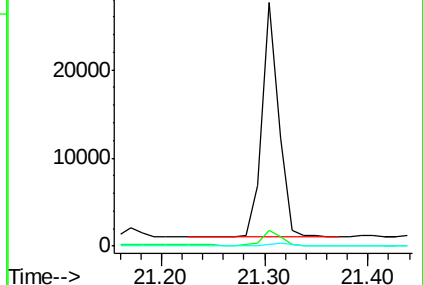
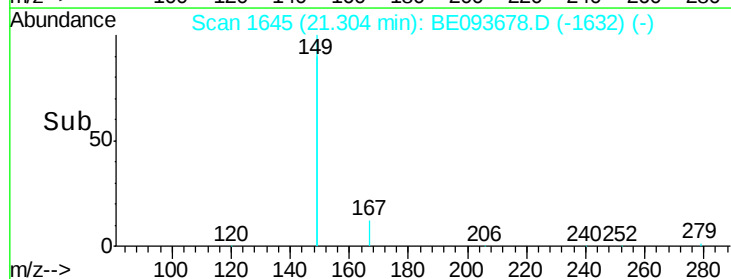
279 1.0 0.8 1.2

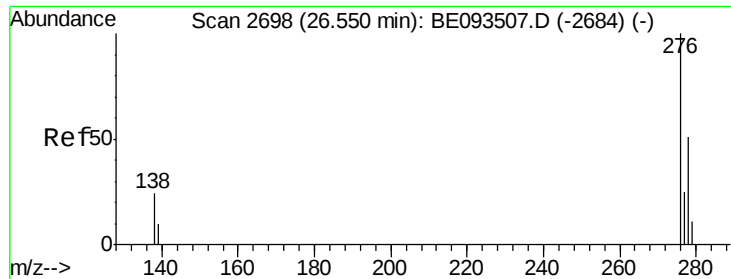


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.027 ng

RT: 26.55 min Scan# 2698

Delta R.T. 0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

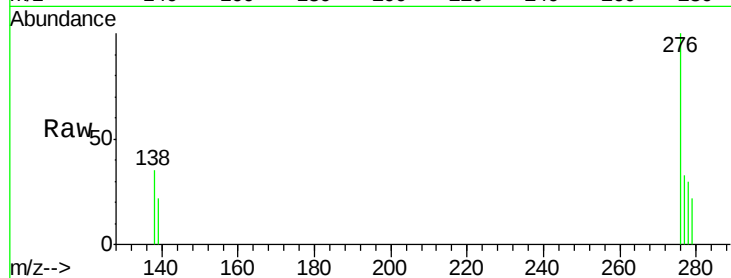
Tgt Ion:276 Resp: 1719

Ion Ratio Lower Upper

276 100

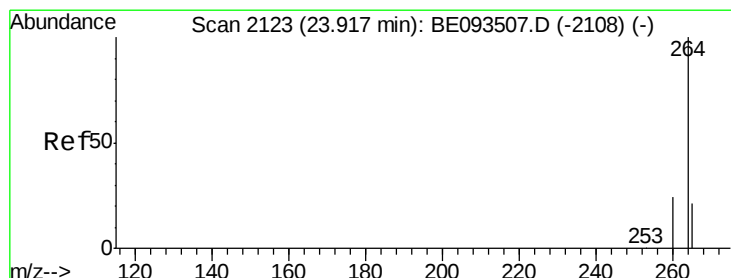
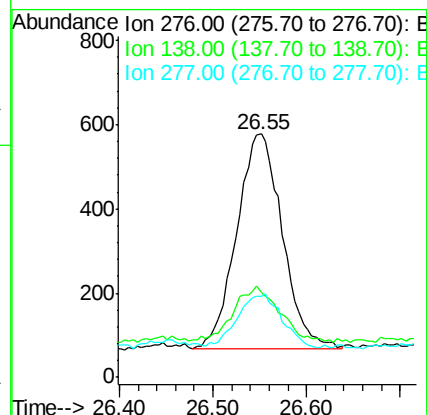
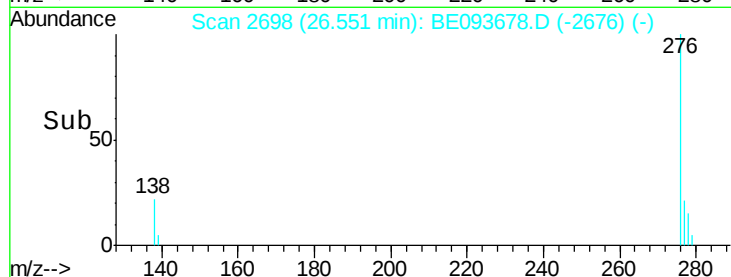
138 26.9 27.4 41.2#

277 24.7 20.1 30.1



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

26.55



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.91 min Scan# 2122

Delta R.T. -0.01 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

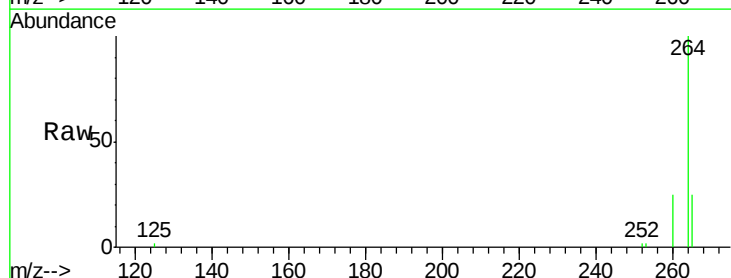
Tgt Ion:264 Resp: 18764

Ion Ratio Lower Upper

264 100

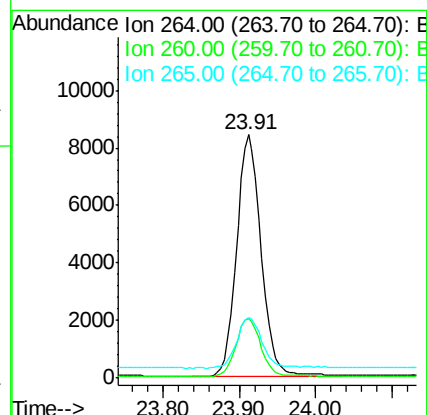
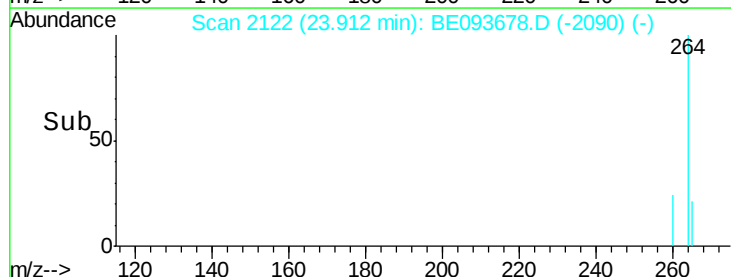
260 24.6 21.0 31.4

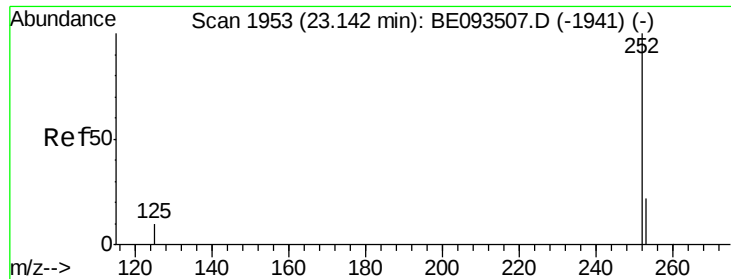
265 24.9 24.6 36.8



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

23.91





#35

Benzo(b)fluoranthene

Concen: 0.055 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

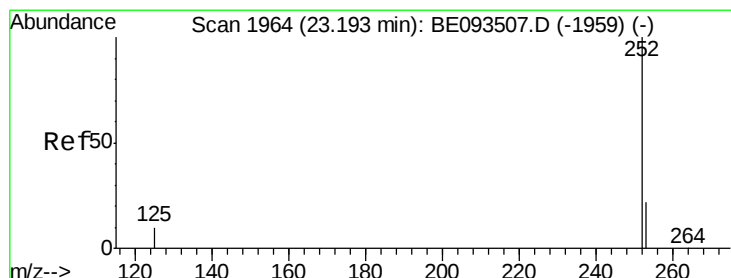
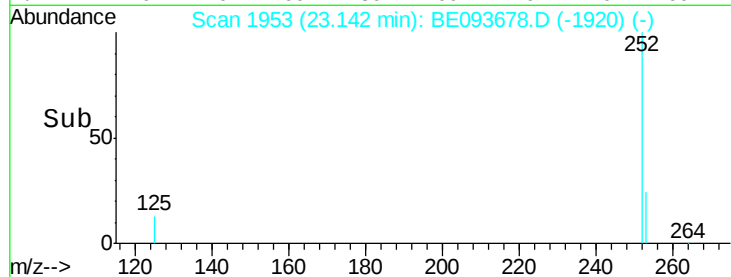
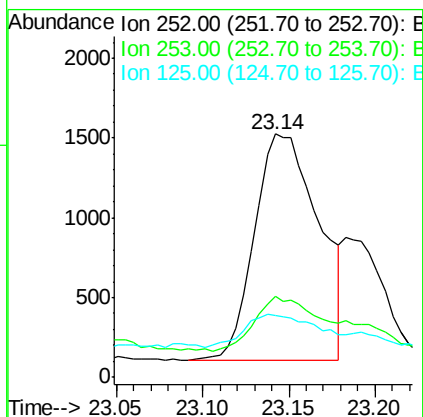
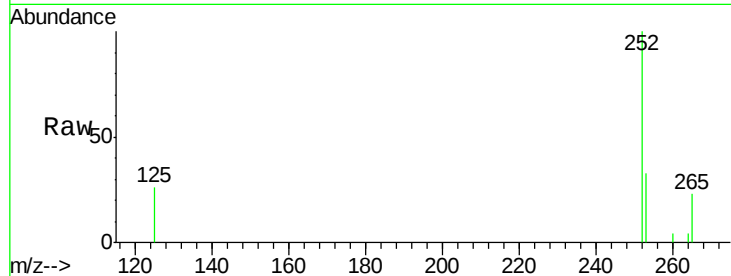
Tgt Ion:252 Resp: 3674

Ion Ratio Lower Upper

252 100

253 33.5 18.5 27.7#

125 25.6 13.4 20.0#



#36

Benzo(k)fluoranthene

Concen: 0.054 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.05 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

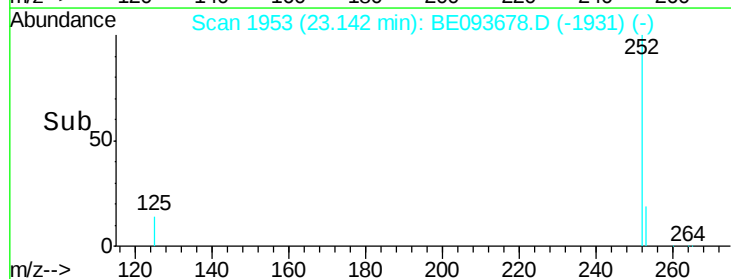
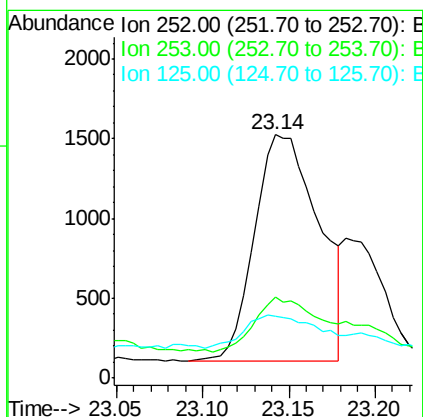
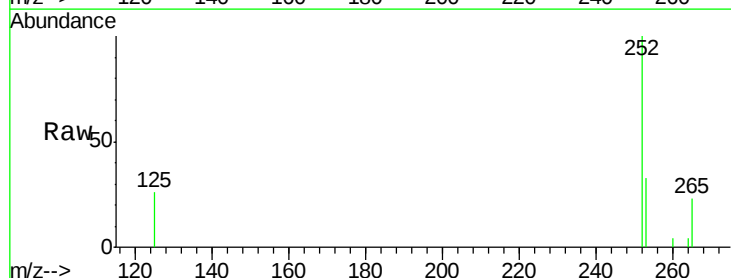
Tgt Ion:252 Resp: 3674

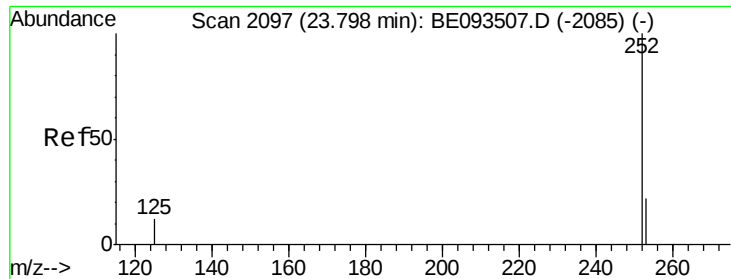
Ion Ratio Lower Upper

252 100

253 33.5 20.3 30.5#

125 25.6 12.2 18.4#





#37

Benzo(a)pyrene

Concen: 0.041 ng

RT: 23.80 min Scan# 2097

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Instrument :

BNA_E

ClientSampleId :

LASB-12-1

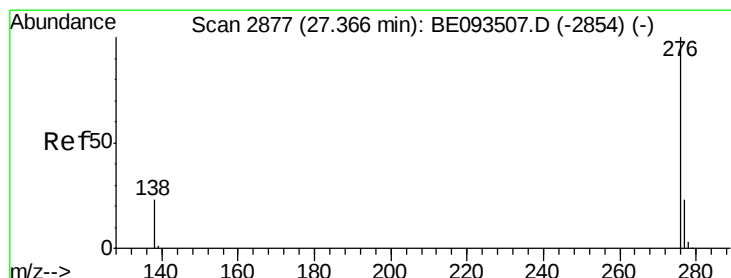
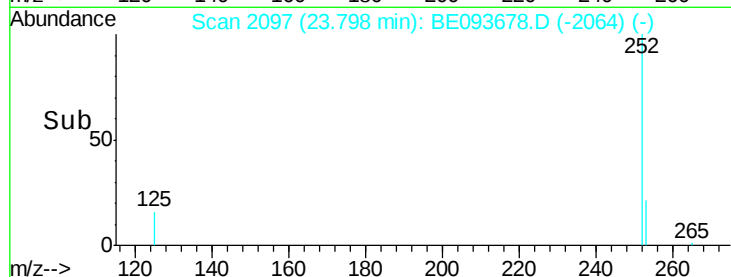
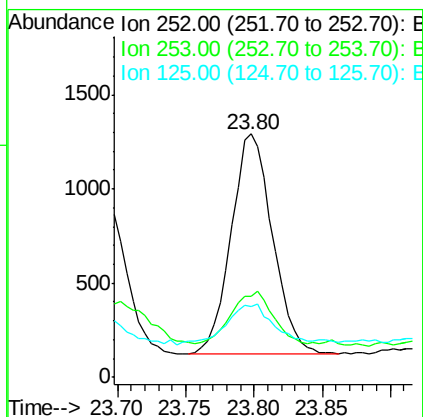
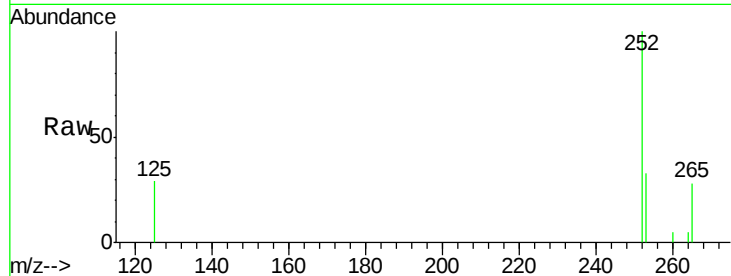
Tgt Ion: 252 Resp: 2459

Ion Ratio Lower Upper

252 100

253 33.2 19.9 29.9#

125 28.9 14.6 21.8#



#39

Benzo(g,h,i)perylene

Concen: 0.029 ng

RT: 27.36 min Scan# 2876

Delta R.T. -0.00 min

Lab File: BE093678.D

Acq: 5 Aug 2017 17:01

Tgt Ion: 276 Resp: 1733

Ion Ratio Lower Upper

276 100

277 33.5 21.2 31.8#

138 36.4 24.5 36.7

