

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
 Data File : BE099363.D
 Acq On : 25 Apr 2019 16:14
 Operator : JU/SJ
 Sample : K2534-04MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 26 00:42:36 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 19 06:51:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	4111	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	15734	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	11526	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	32998	0.40	ng	0.00
27) Chrysene-d12	21.37	240	36859	0.40	ng	0.00
34) Perylene-d12	23.86	264	41492	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	3825	0.38	ng	0.01
5) Phenol-d6	6.98	99	5534	0.39	ng	0.00
8) Nitrobenzene-d5	8.96	82	4567	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	11984	0.43	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2210	0.58	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	13105	0.29	ng	0.00
25) Fluoranthene-d10	19.22	212	125901	0.32	ng	0.00
29) Terphenyl-d14	19.82	244	21838	0.30	ng	0.00

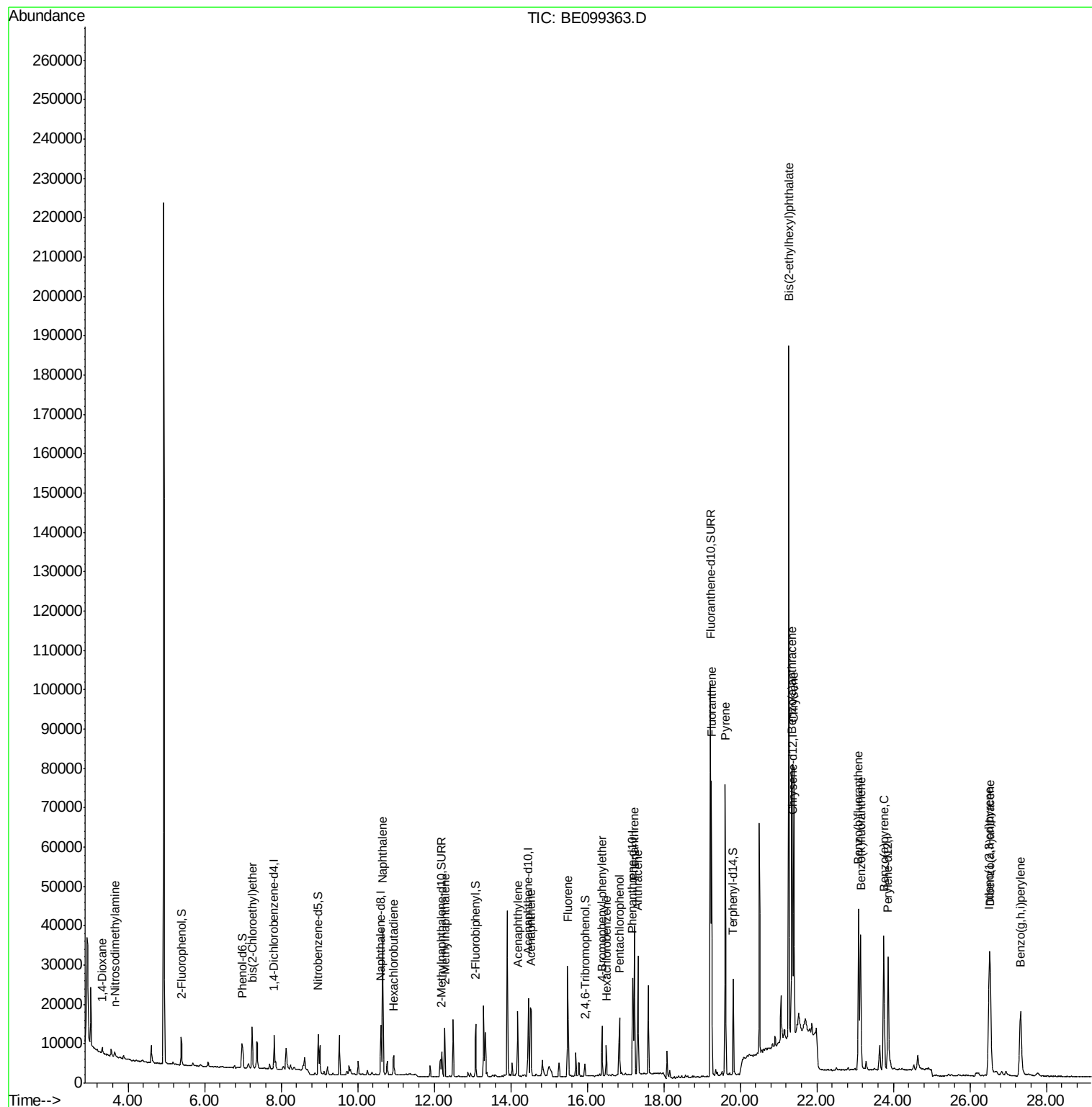
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.32	88	1245	0.216	ng	# 64
3) n-Nitrosodimethylamine	3.65	42	1242	0.401	ng	# 83
6) bis(2-Chloroethyl)ether	7.24	93	4252	0.318	ng	96
9) Naphthalene	10.65	128	57568	0.335	ng	100
10) Hexachlorobutadiene	10.94	225	3480	0.319	ng	99
12) 2-Methylnaphthalene	12.28	142	10066	0.345	ng	98
16) Acenaphthylene	14.18	152	18796	0.361	ng	98
17) Acenaphthene	14.53	154	10672	0.332	ng	98
18) Fluorene	15.49	166	16025	0.347	ng	99
20) 4-Bromophenyl-phenylether	16.39	248	6165	0.337	ng	99
21) Hexachlorobenzene	16.49	284	5898	0.336	ng	98
22) Pentachlorophenol	16.84	266	7606	1.292	ng	93
23) Phenanthrene	17.23	178	38198	0.437	ng	100
24) Anthracene	17.32	178	29818	0.384	ng	99
26) Fluoranthene	19.25	202	65946	0.564	ng	99
28) Pyrene	19.61	202	65937	0.607	ng	98
30) Benzo(a)anthracene	21.34	228	63178	0.583	ng	98
31) Chrysene	21.40	228	56361	0.489	ng	99
32) Bis(2-ethylhexyl)phthalate	21.27	149	184358	1.870	ng	100
33) Indeno(1,2,3-cd)pyrene	26.51	276	56940	0.500	ng	97
35) Benzo(b)fluoranthene	23.09	252	59309	0.467	ng	# 95
36) Benzo(k)fluoranthene	23.14	252	50797	0.401	ng	# 96
37) Benzo(a)pyrene	23.75	252	53646	0.471	ng	96
38) Dibenzo(a,h)anthracene	26.53	278	41298	0.355	ng	98
39) Benzo(g,h,i)perylene	27.32	276	47566	0.403	ng	99

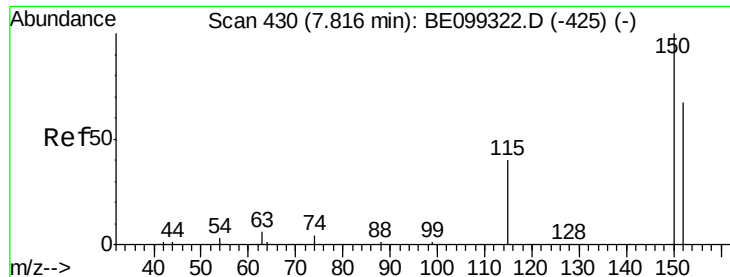
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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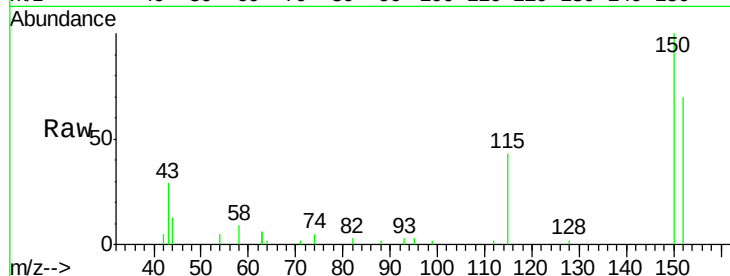


#1

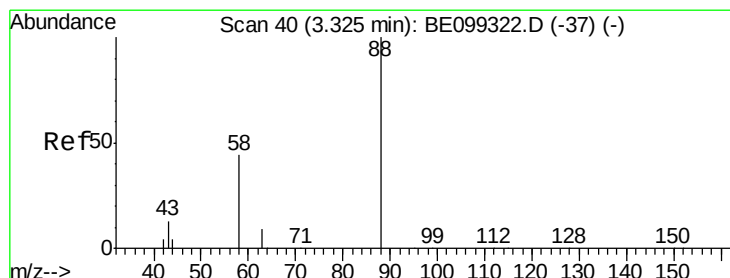
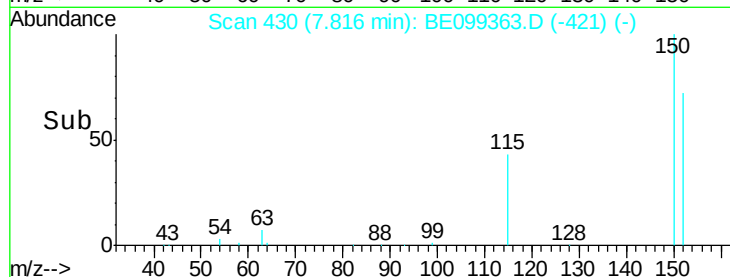
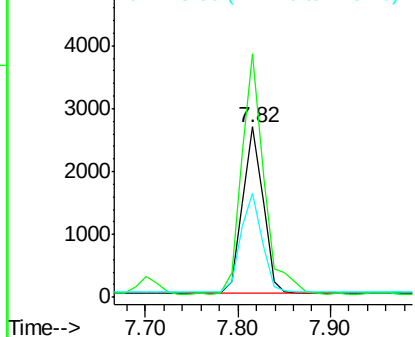
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 4111
Ion Ratio Lower Upper
152 100
150 143.1 119.5 179.3
115 61.3 47.5 71.3



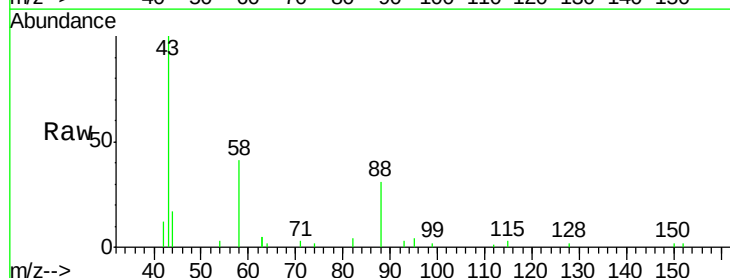
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



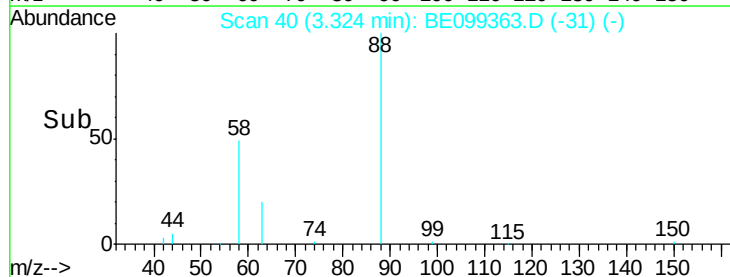
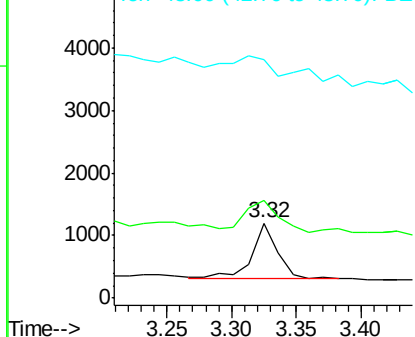
#2

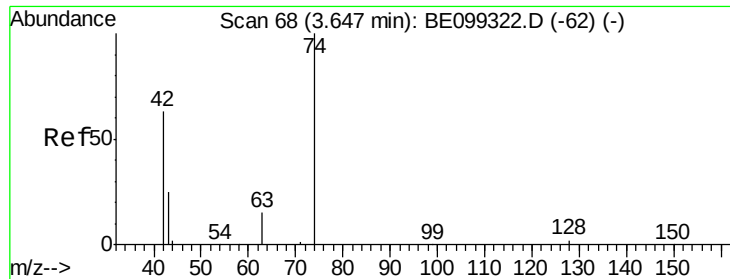
1,4-Dioxane
Concen: 0.216 ng
RT: 3.32 min Scan# 40
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

Tgt Ion: 88 Resp: 1245
Ion Ratio Lower Upper
88 100
58 63.9 49.1 73.7
43 83.1 17.9 26.9#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.401 ng

RT: 3.65 min Scan# 68

Delta R.T. -0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

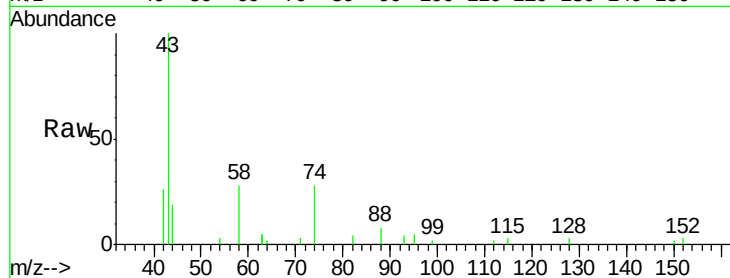
Tot Ion: 42 Resp: 1242

Ion Ratio Lower Upper

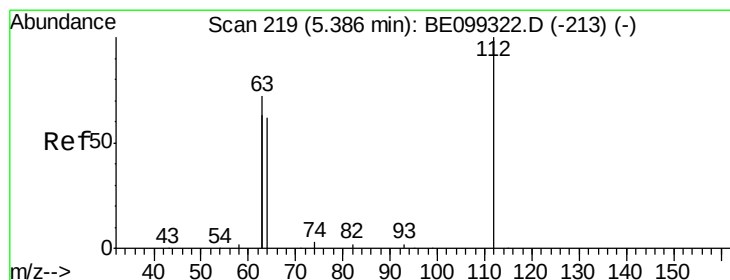
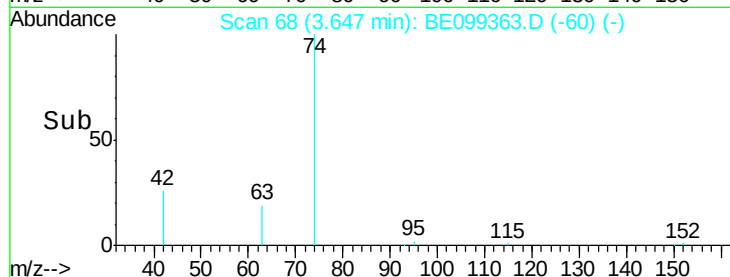
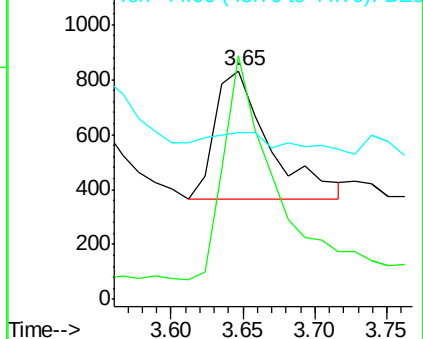
42 100

74 156.9 145.8 218.8

44 15.4 9.0 13.4#



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: 0.381 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

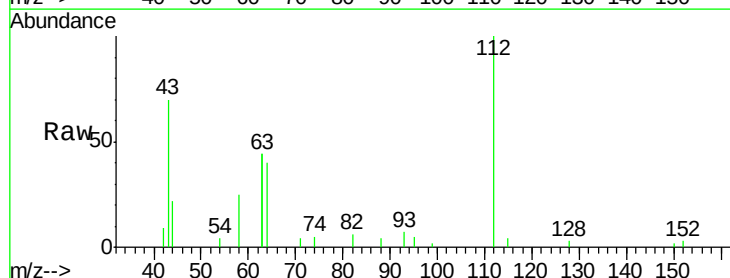
Tgt Ion: 112 Resp: 3825

Ion Ratio Lower Upper

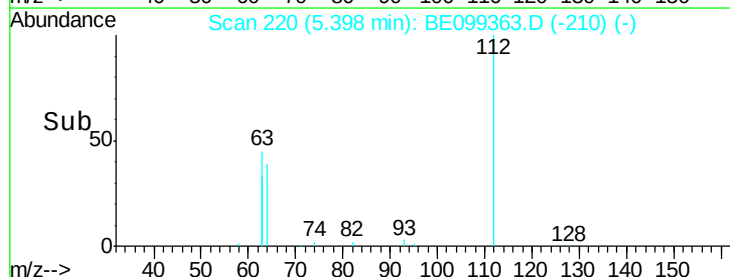
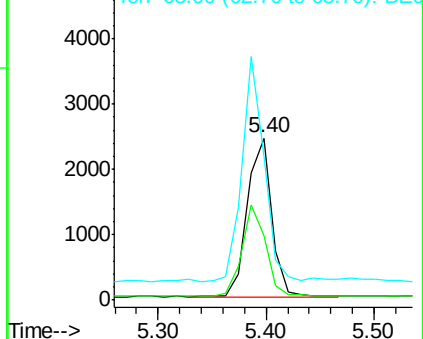
112 100

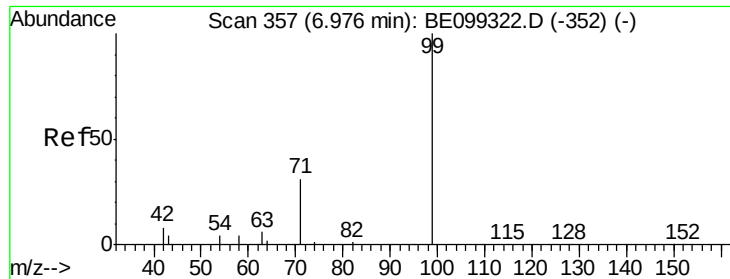
64 56.5 44.9 67.3

63 127.0 97.4 146.0



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





#5

Phenol-d6

Concen: 0.386 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

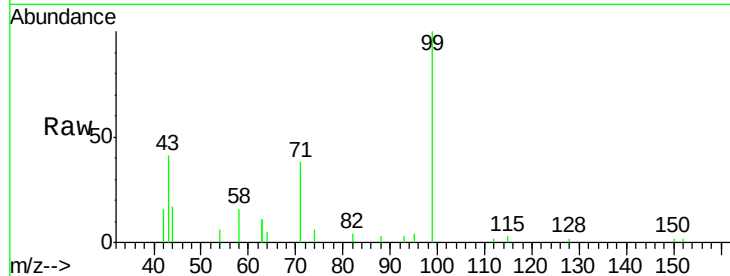
Tot Ion: 99 Resp: 5534

Ion Ratio Lower Upper

99 100

42 17.8 11.7 17.5#

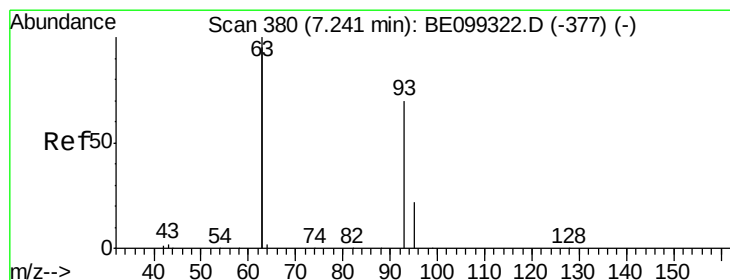
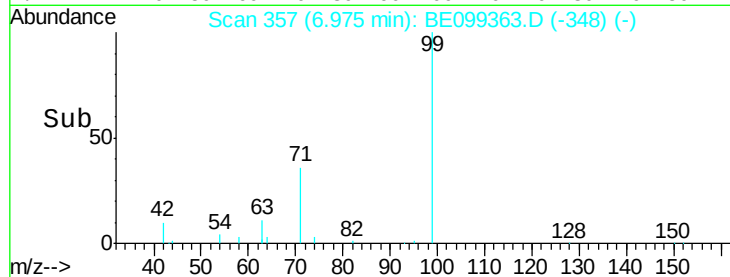
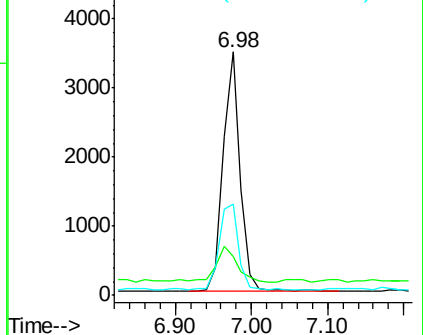
71 40.6 29.6 44.4



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



#6

bis(2-Chloroethyl)ether

Concen: 0.318 ng

RT: 7.24 min Scan# 380

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

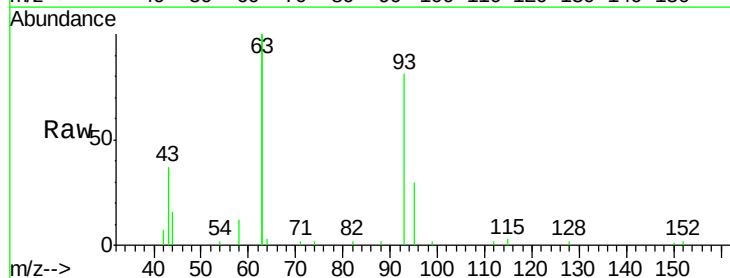
Tgt Ion: 93 Resp: 4252

Ion Ratio Lower Upper

93 100

63 277.2 216.6 324.8

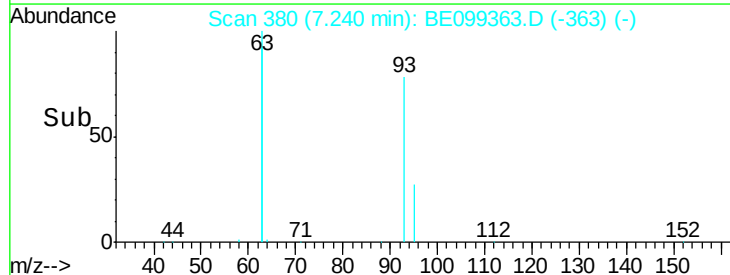
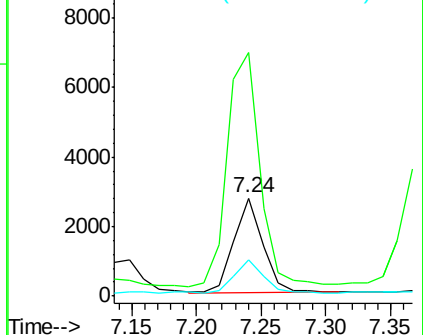
95 34.0 25.8 38.6

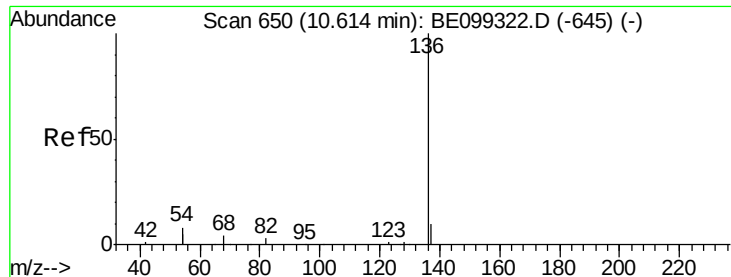


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 15734

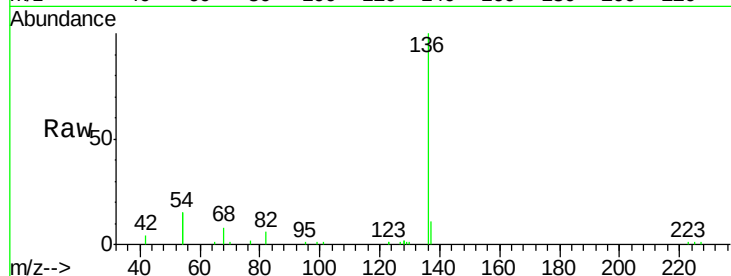
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 29.3 23.8 35.8

68 7.6 6.4 9.6

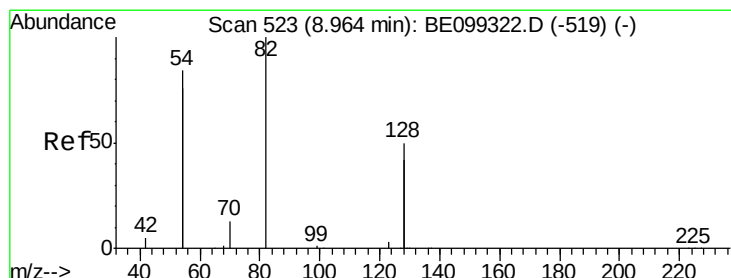
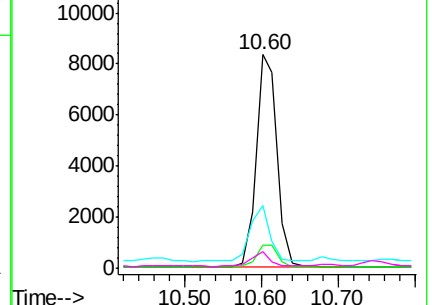
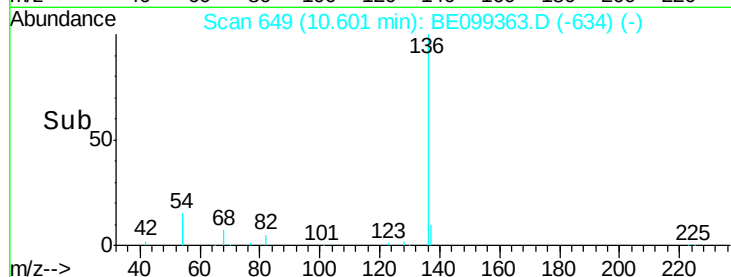


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.374 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

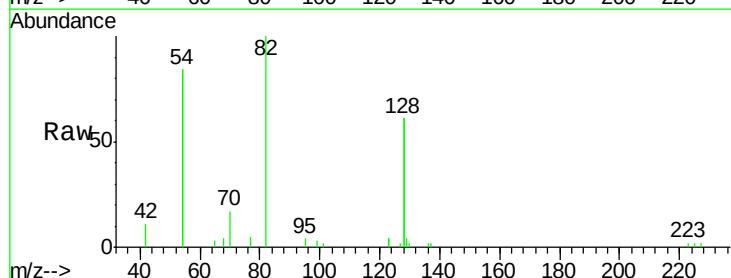
Tgt Ion: 82 Resp: 4567

Ion Ratio Lower Upper

82 100

128 122.5 91.7 137.5

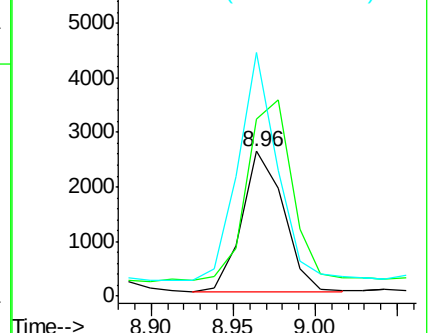
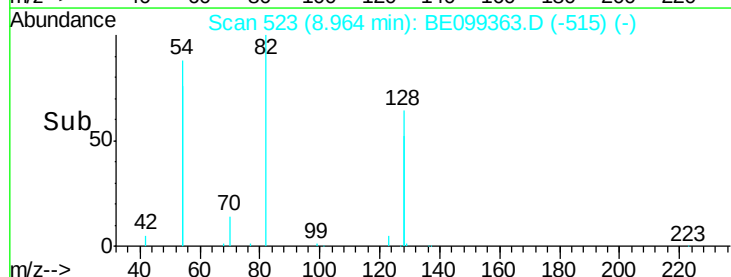
54 167.9 122.8 184.2

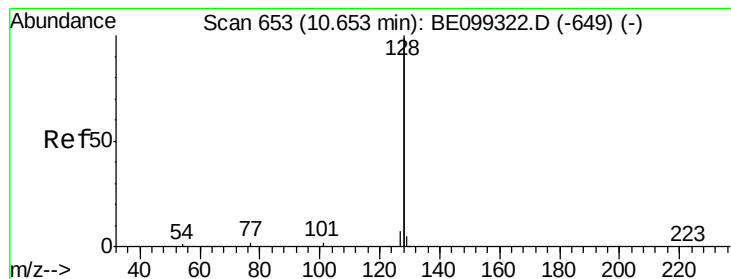


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.335 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

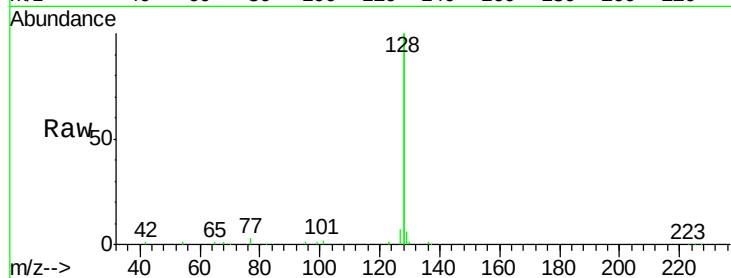
Tot Ion:128 Resp: 57568

Ion Ratio Lower Upper

128 100

129 2.8 2.3 3.5

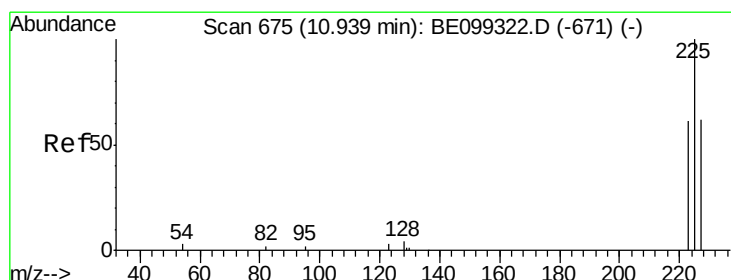
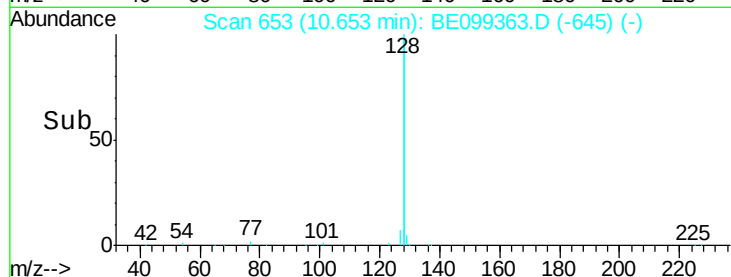
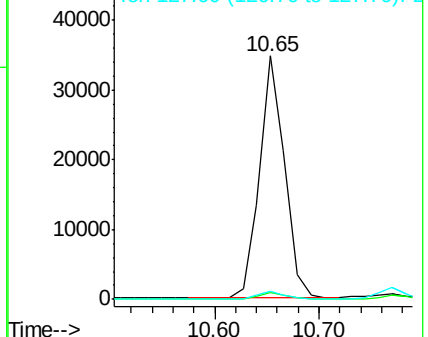
127 3.4 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.319 ng

RT: 10.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

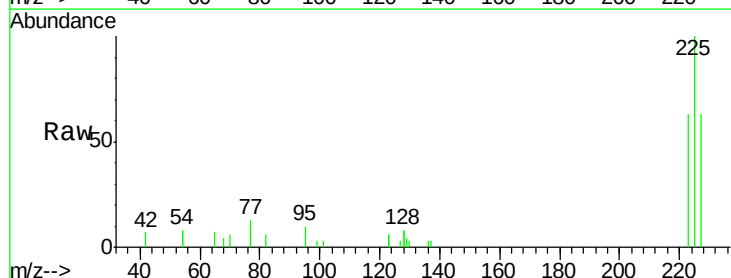
Tgt Ion:225 Resp: 3480

Ion Ratio Lower Upper

225 100

223 62.9 50.3 75.5

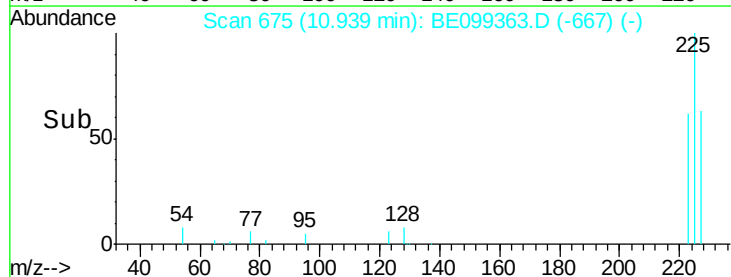
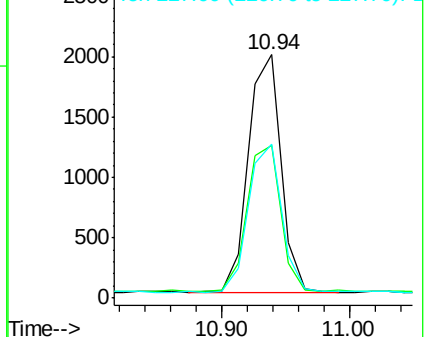
227 63.4 49.4 74.0

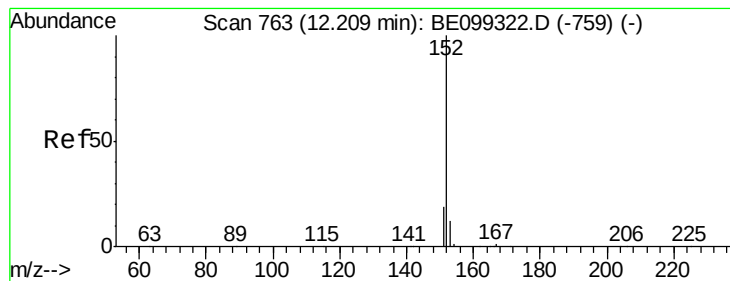


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

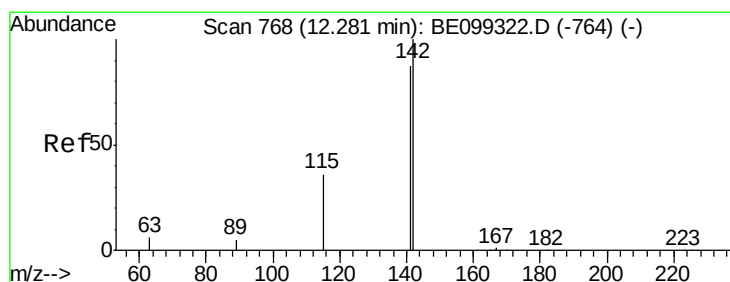
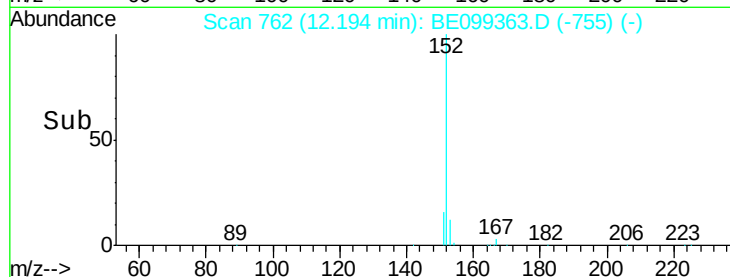
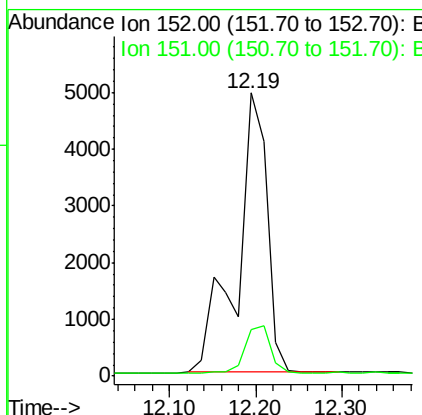
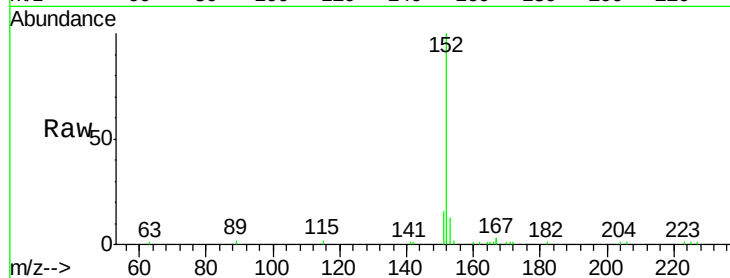




#11
 2-Methylnaphthalene-d10
 Concen: 0.432 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

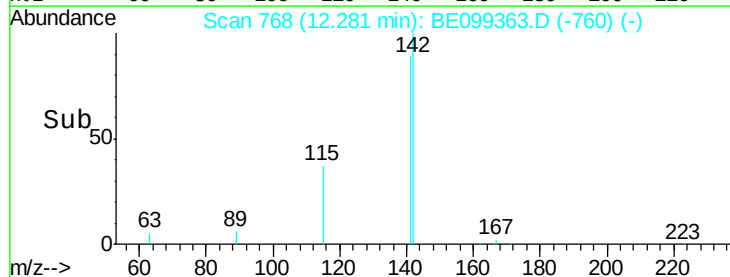
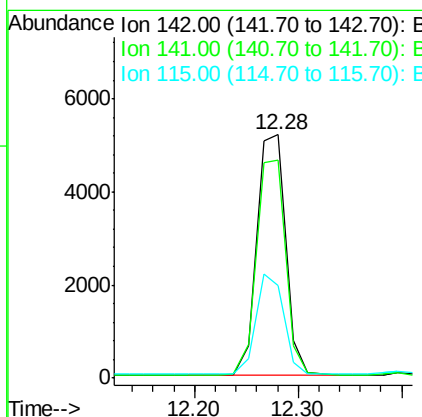
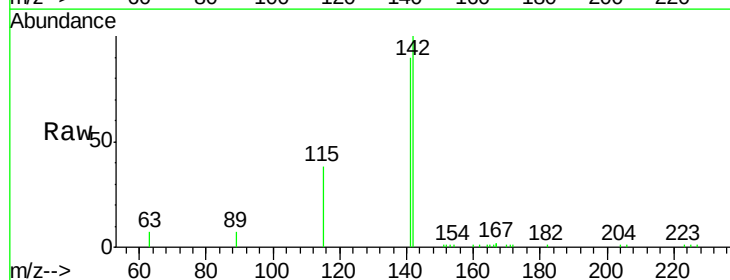
Instrument :
 BNA_E
 ClientSampled :

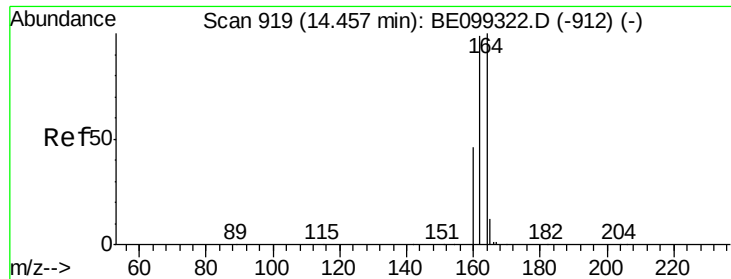
Tot Ion:152 Resp: 11984
 Ion Ratio Lower Upper
 152 100
 151 14.2 14.9 22.3#



#12
 2-Methylnaphthalene
 Concen: 0.345 ng
 RT: 12.28 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

Tgt Ion:142 Resp: 10066
 Ion Ratio Lower Upper
 142 100
 141 89.6 72.0 108.0
 115 38.1 33.4 50.0

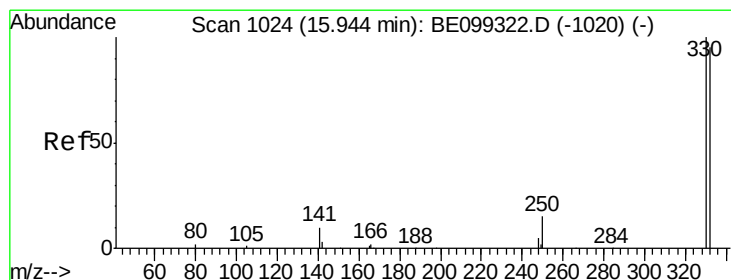
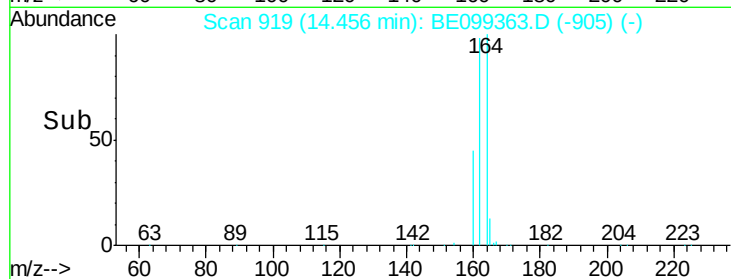
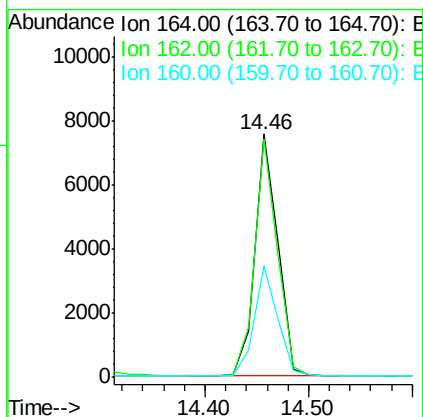
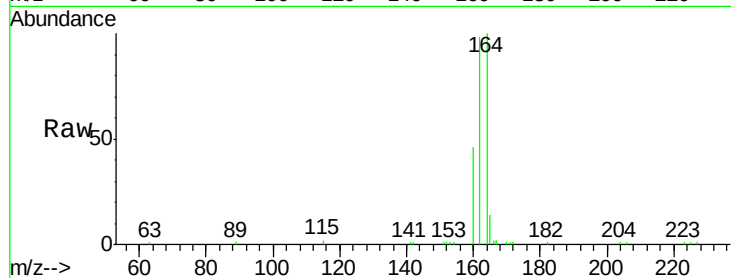




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

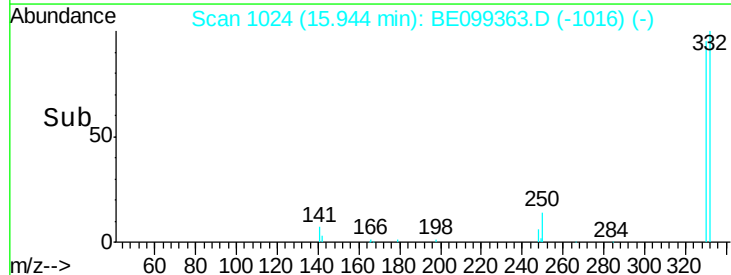
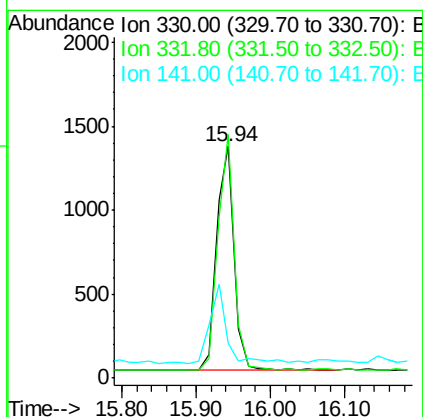
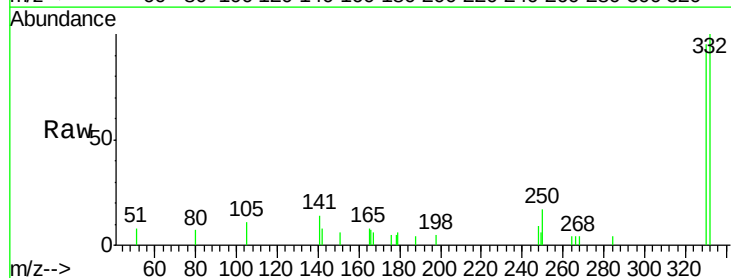
Instrument :
BNA_E
ClientSampleId :

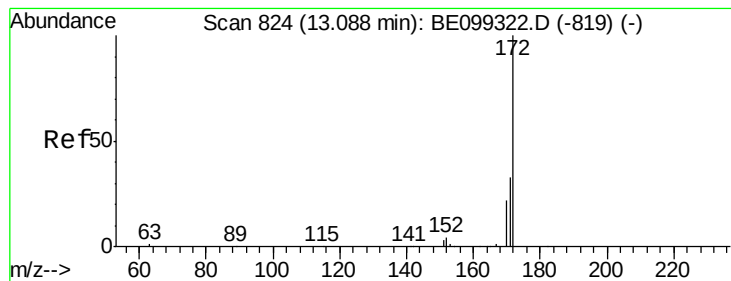
Tot Ion:164 Resp: 11526
Ion Ratio Lower Upper
164 100
162 97.9 77.8 116.6
160 45.8 37.1 55.7



#14
2,4,6-Tribromophenol
Concen: 0.577 ng
RT: 15.94 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

Tgt Ion:330 Resp: 2210
Ion Ratio Lower Upper
330 100
332 98.4 82.5 123.7
141 33.0 24.9 37.3

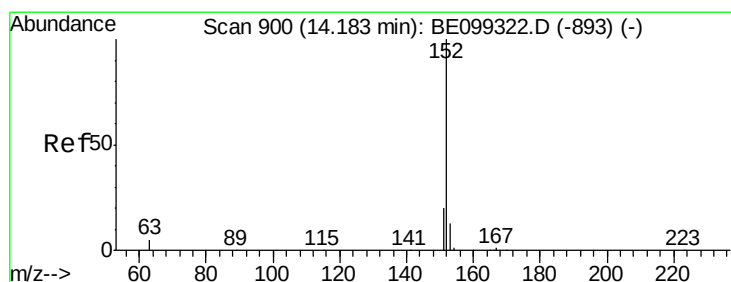
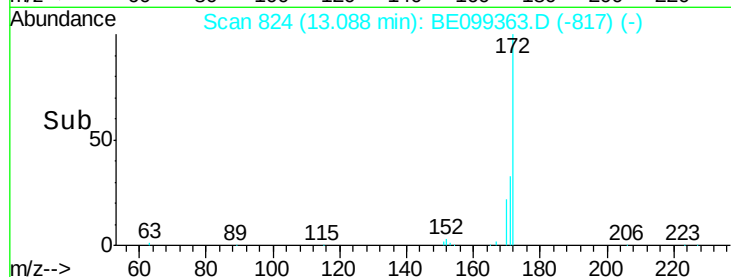
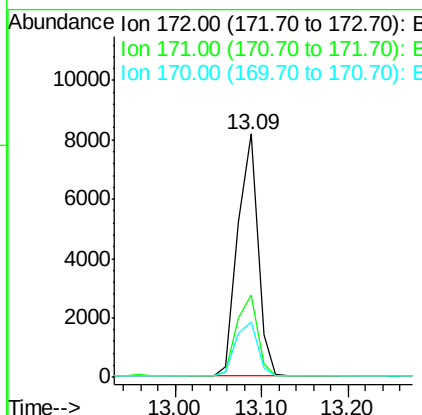
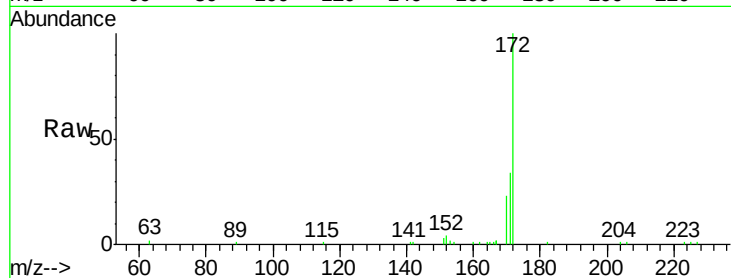




#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

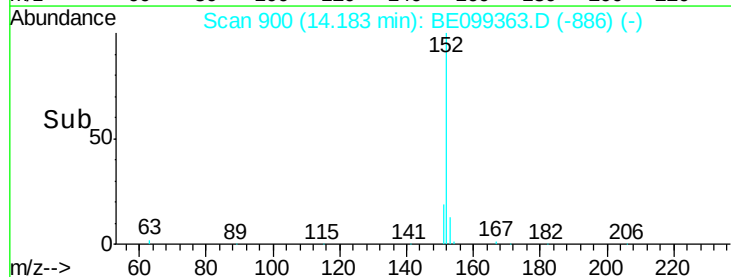
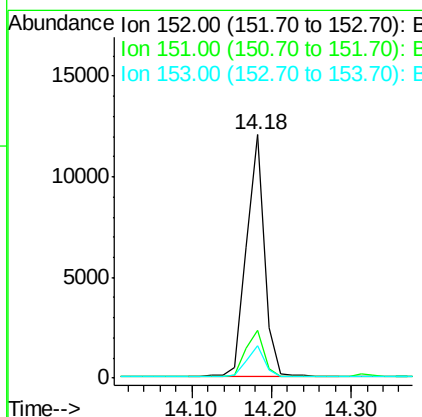
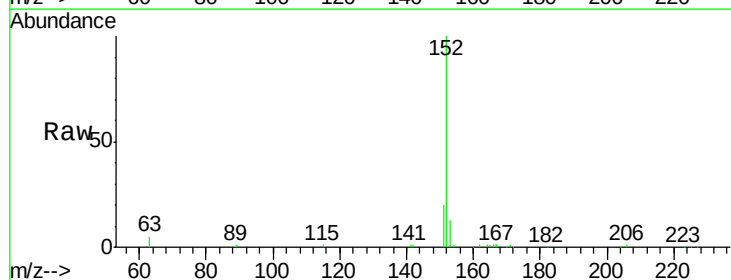
Instrument :
BNA_E
ClientSampleId :

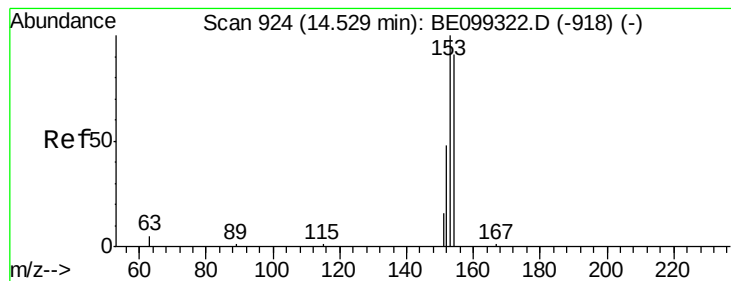
Tot Ion:172 Resp: 13105
Ion Ratio Lower Upper
172 100
171 33.7 26.2 39.2
170 22.9 18.1 27.1



#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

Tgt Ion:152 Resp: 18796
Ion Ratio Lower Upper
152 100
151 20.5 15.5 23.3
153 12.8 10.2 15.4





#17

Acenaphthene

Concen: 0.332 ng

RT: 14.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

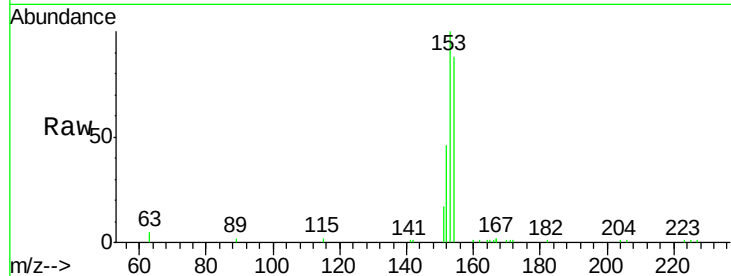
Tot Ion:154 Resp: 10672

Ion Ratio Lower Upper

154 100

153 116.1 94.7 142.1

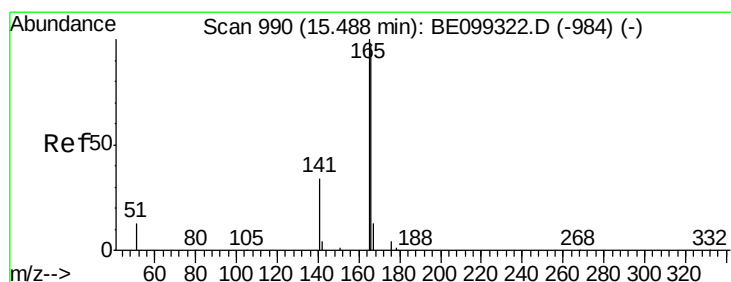
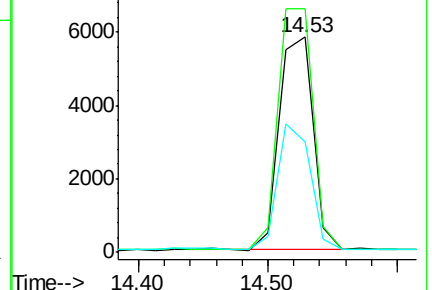
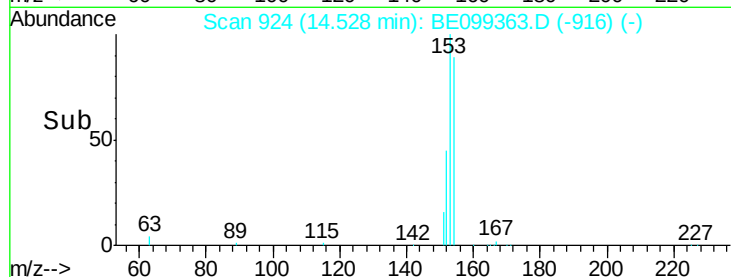
152 56.8 46.4 69.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.347 ng

RT: 15.49 min Scan# 990

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

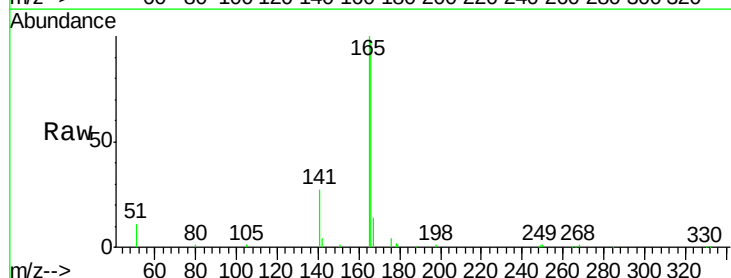
Tgt Ion:166 Resp: 16025

Ion Ratio Lower Upper

166 100

165 100.8 79.7 119.5

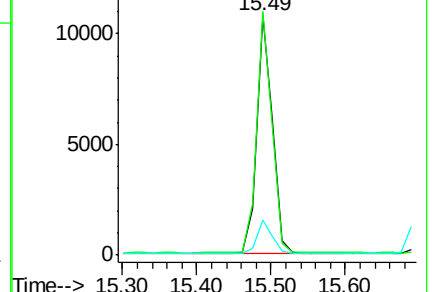
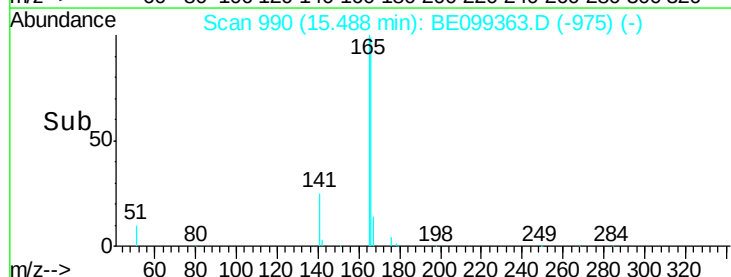
167 13.7 11.0 16.4

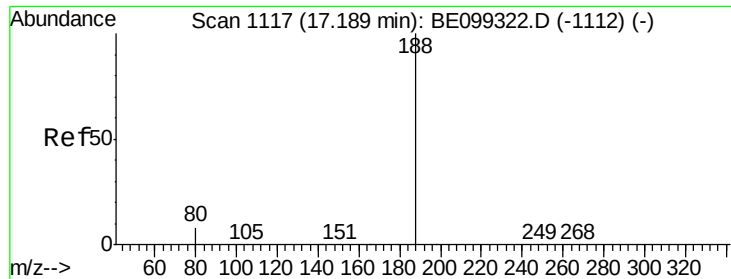


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

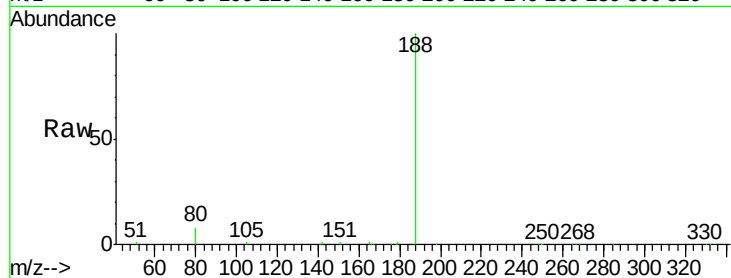
Tot Ion:188 Resp: 32998

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

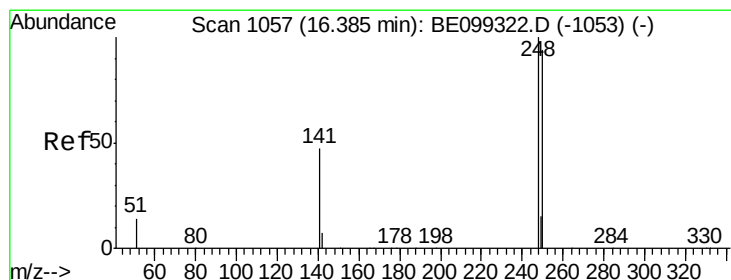
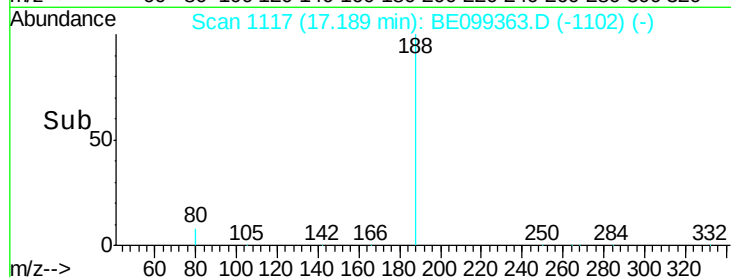
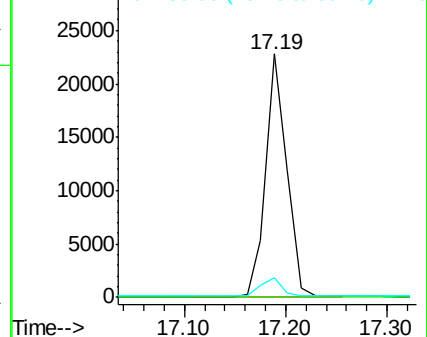
80 8.0 6.2 9.4



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.337 ng

RT: 16.39 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

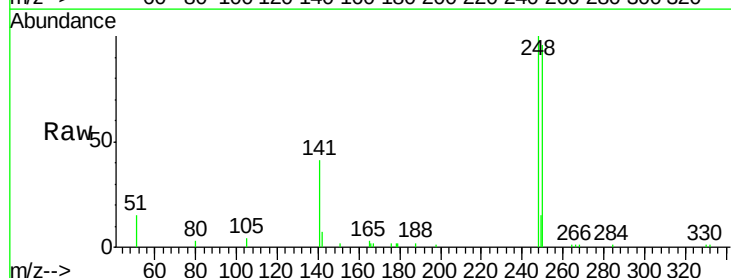
Tgt Ion:248 Resp: 6165

Ion Ratio Lower Upper

248 100

250 96.5 77.0 115.6

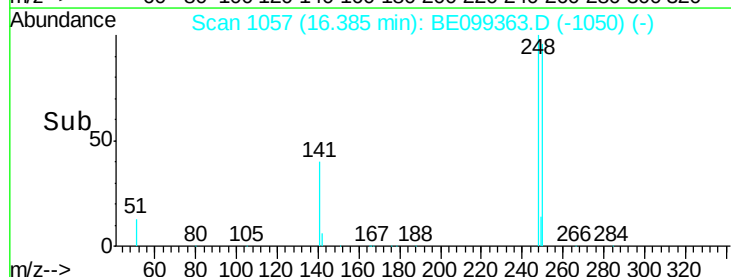
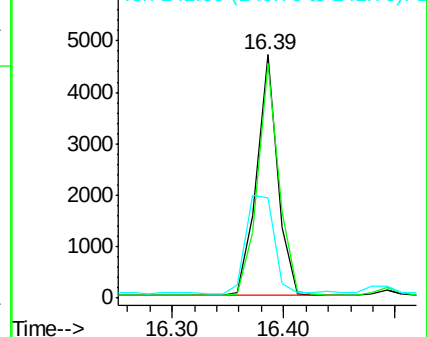
141 41.3 31.1 46.7

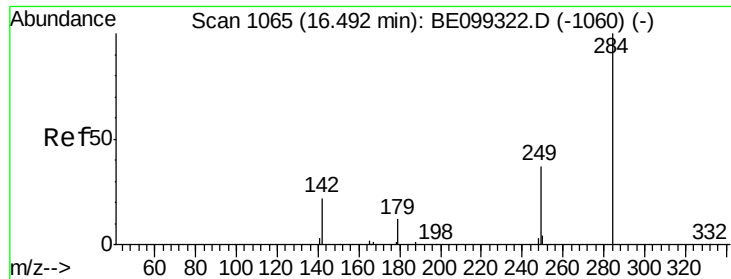


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

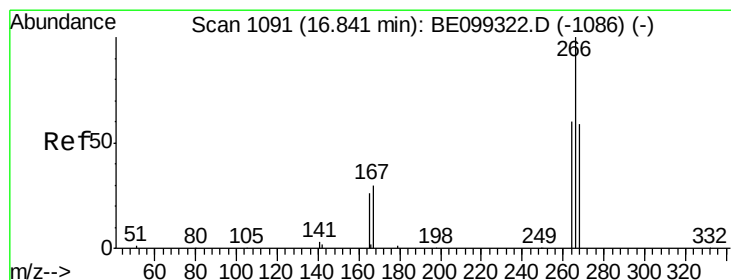
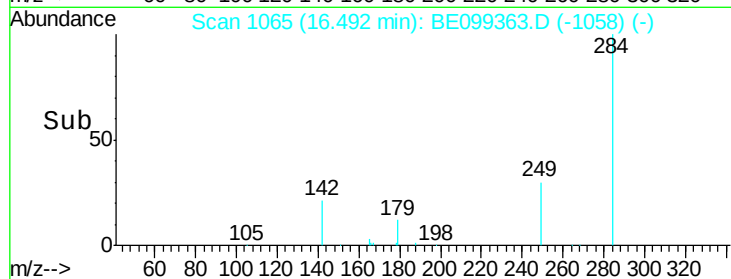
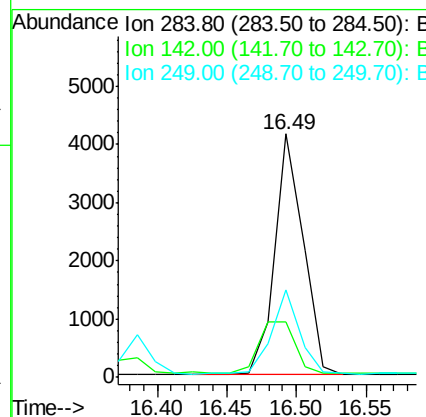
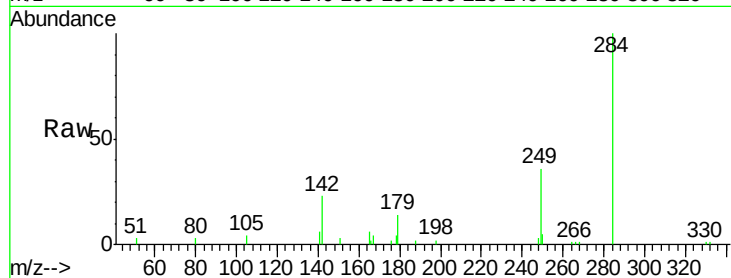




#21
Hexachlorobenzene
Concen: 0.336 ng
RT: 16.49 min Scan# 1065
Delta R.T. -0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

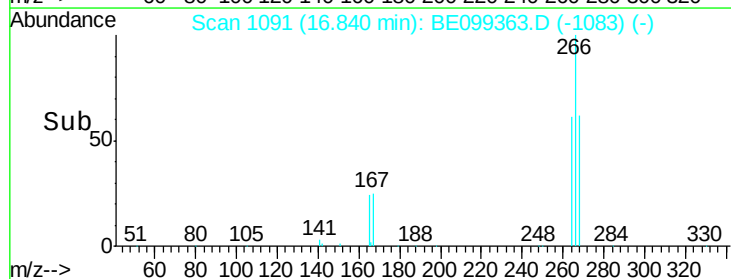
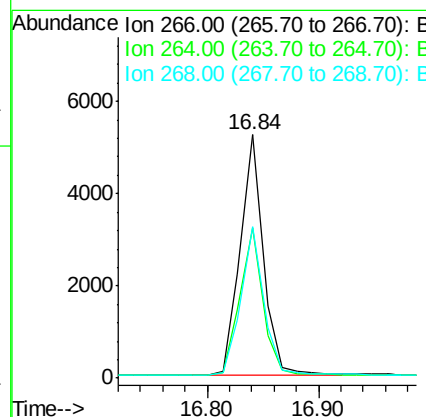
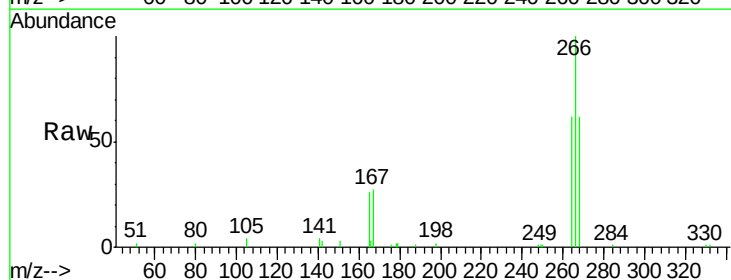
Instrument :
BNA_E
ClientSampleId :

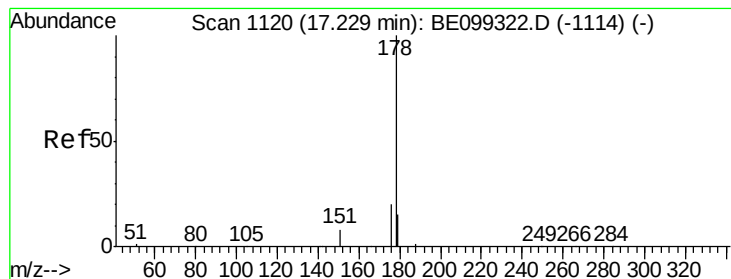
Tot Ion:284 Resp: 5898
Ion Ratio Lower Upper
284 100
142 27.6 21.8 32.6
249 34.2 26.2 39.4



#22
Pentachlorophenol
Concen: 1.292 ng
RT: 16.84 min Scan# 1091
Delta R.T. 0.00 min
Lab File: BE099363.D
Acq: 25 Apr 2019 16:14

Tgt Ion:266 Resp: 7606
Ion Ratio Lower Upper
266 100
264 61.8 54.5 81.7
268 62.1 54.3 81.5





#23

Phenanthrene

Concen: 0.437 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

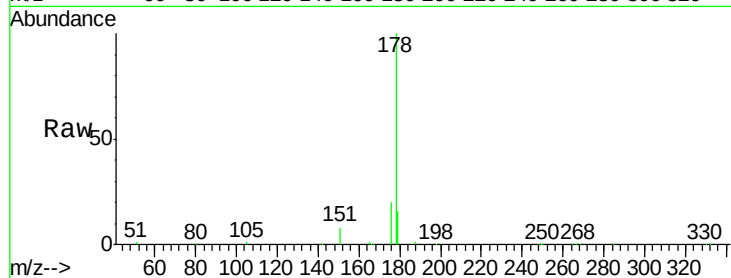
Tot Ion:178 Resp: 38198

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

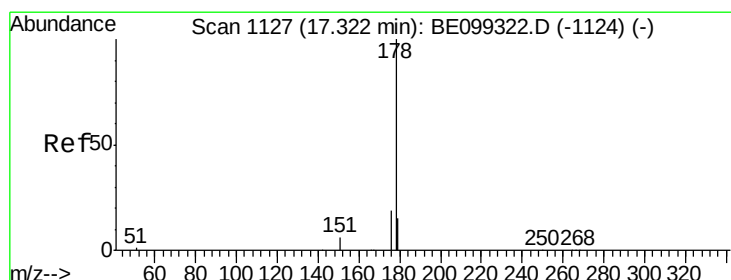
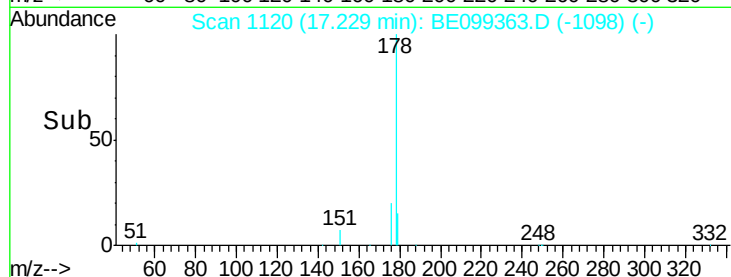
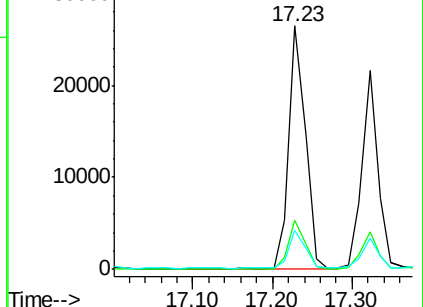
179 15.3 12.4 18.6



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



#24

Anthracene

Concen: 0.384 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

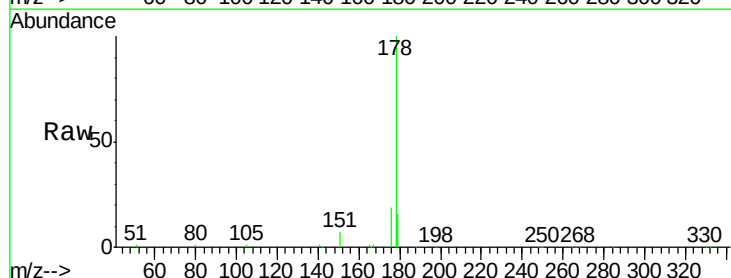
Tgt Ion:178 Resp: 29818

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

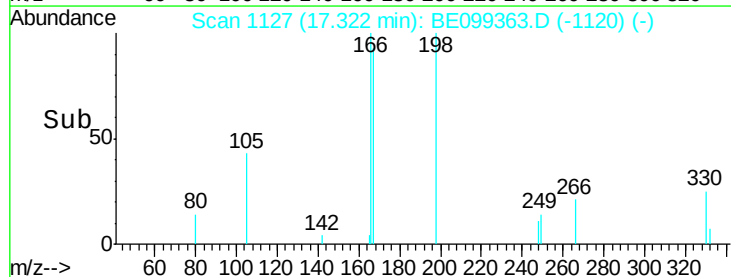
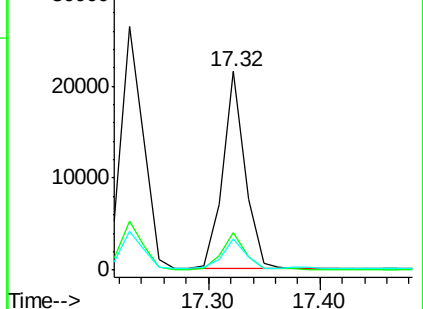
179 15.5 11.9 17.9

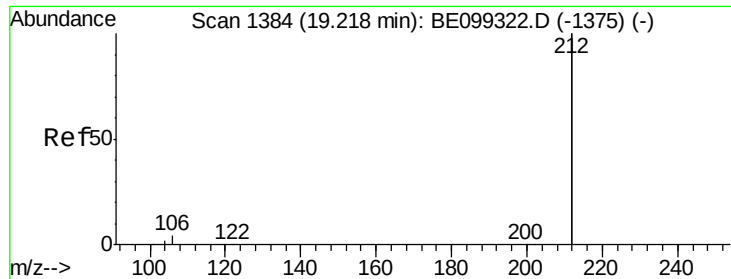


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.318 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

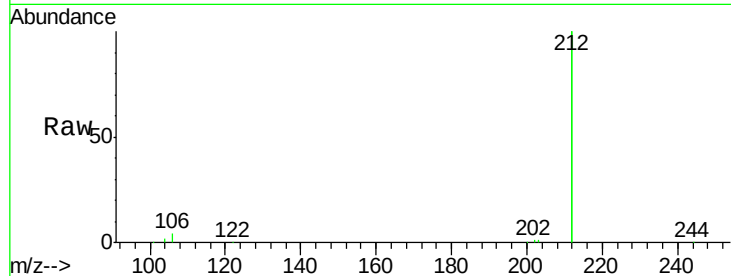
Tot Ion:212 Resp: 125901

Ion Ratio Lower Upper

212 100

106 2.1 1.8 2.6

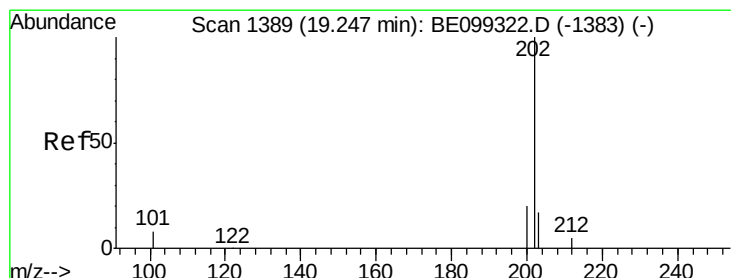
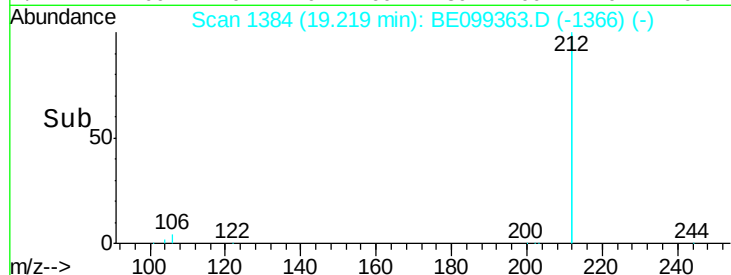
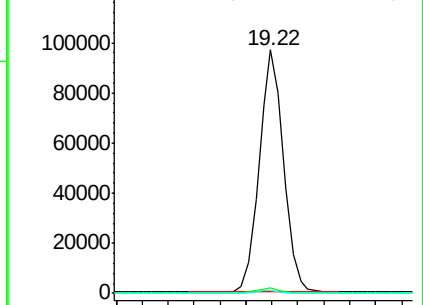
104 1.1 1.0 1.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.564 ng

RT: 19.25 min Scan# 1389

Delta R.T. 0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

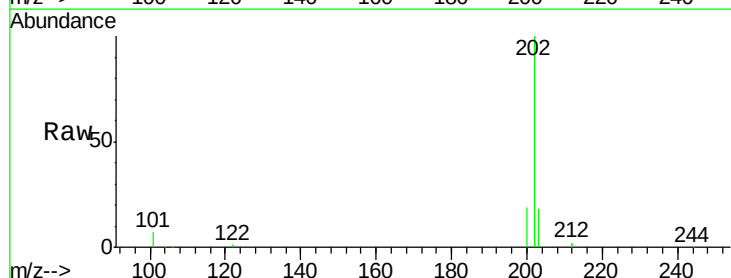
Tgt Ion:202 Resp: 65946

Ion Ratio Lower Upper

202 100

101 7.4 6.4 9.6

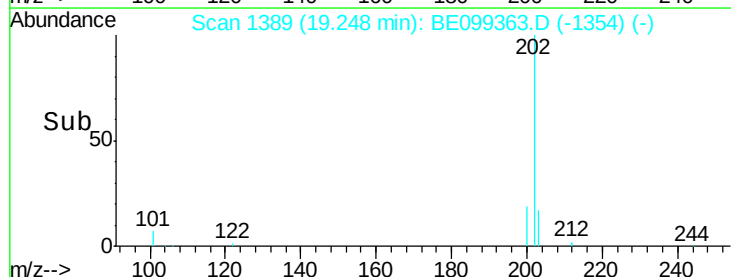
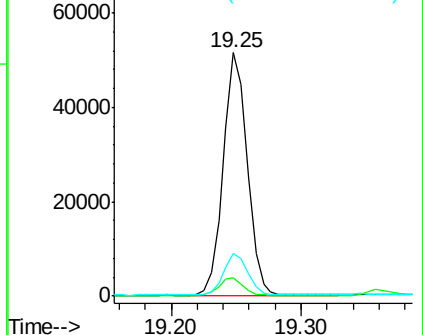
203 17.2 13.5 20.3

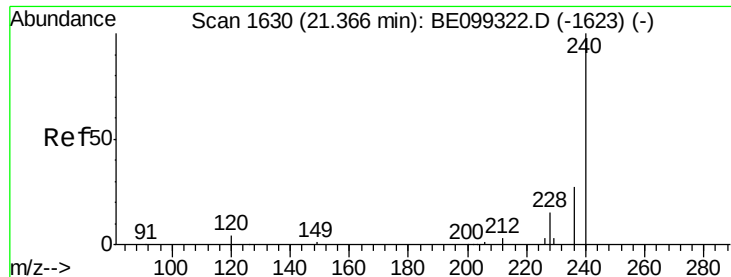


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

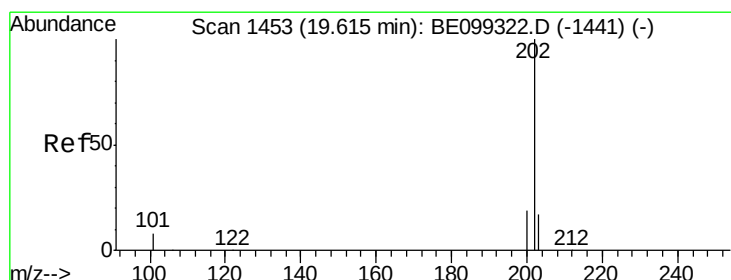
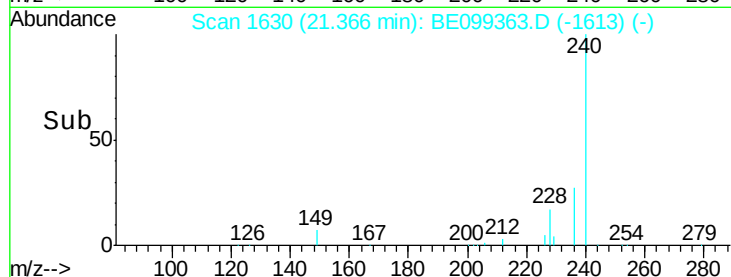
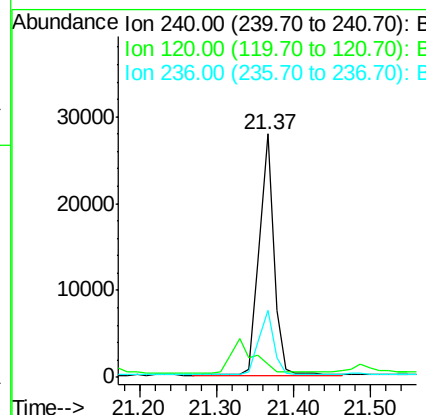
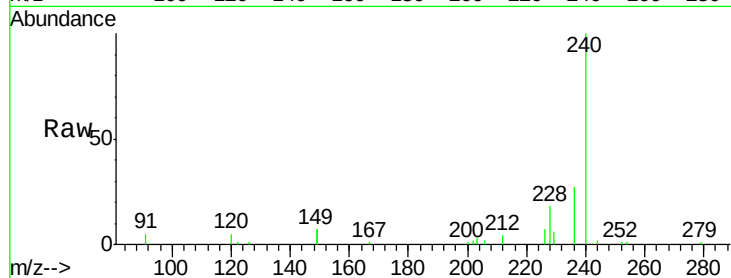




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

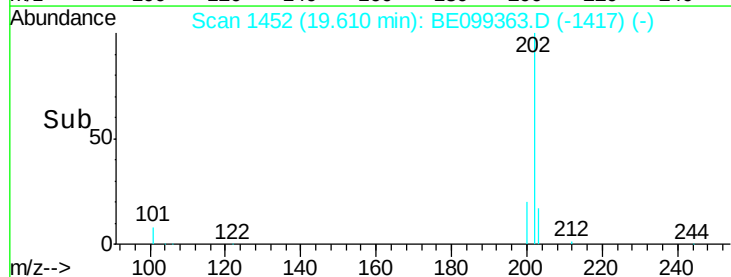
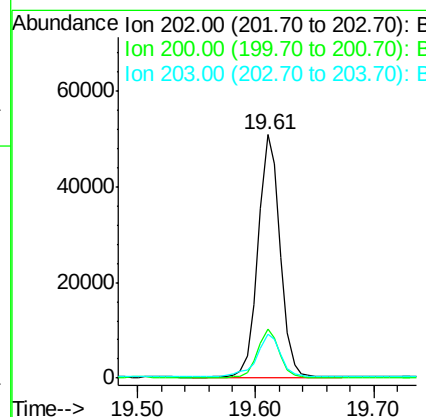
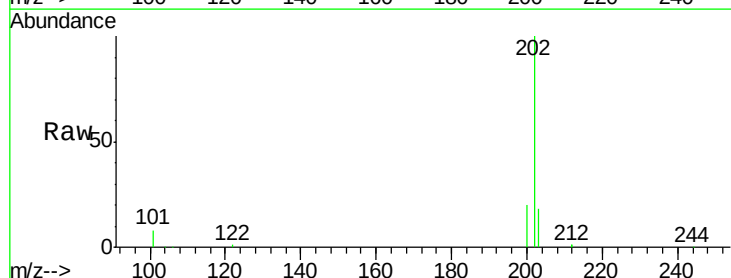
Instrument :
 BNA_E
 ClientSampleId :

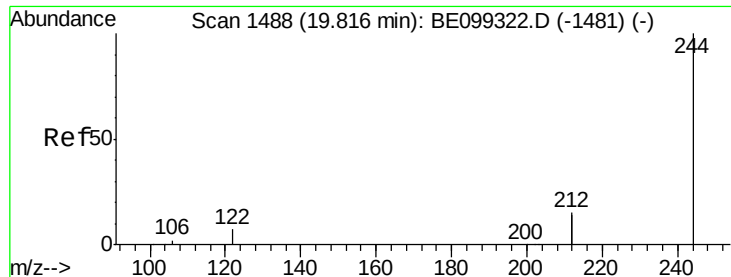
Tot Ion:240 Resp: 36859
 Ion Ratio Lower Upper
 240 100
 120 5.4 2.2 3.2#
 236 27.3 20.2 30.4



#28
 Pyrene
 Concen: 0.607 ng
 RT: 19.61 min Scan# 1452
 Delta R.T. 0.00 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

Tgt Ion:202 Resp: 65937
 Ion Ratio Lower Upper
 202 100
 200 19.6 15.7 23.5
 203 19.1 13.7 20.5





#29

Terphenyl-d14

Concen: 0.301 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampled :

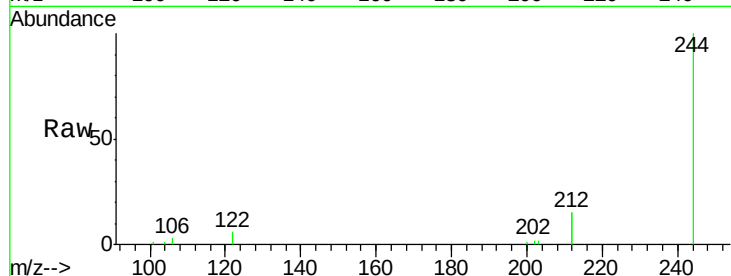
Tot Ion:244 Resp: 21838

Ion Ratio Lower Upper

244 100

212 31.0 22.6 33.8

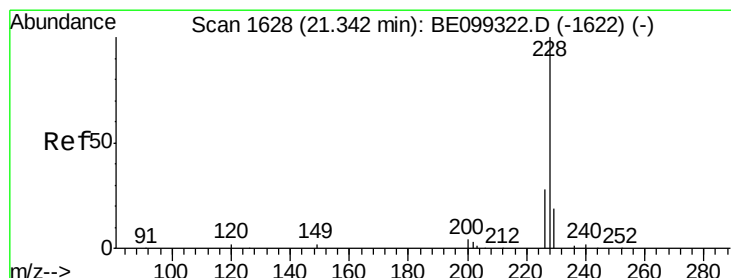
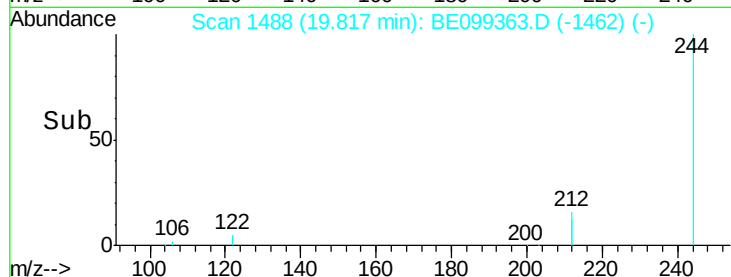
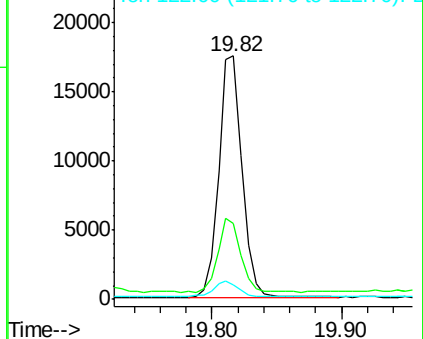
122 6.0 4.6 7.0



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: 0.583 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

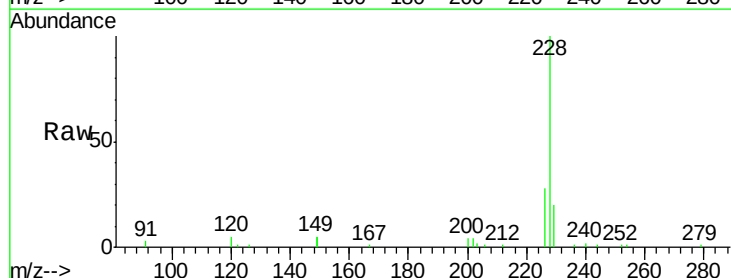
Tgt Ion:228 Resp: 63178

Ion Ratio Lower Upper

228 100

226 28.4 22.0 33.0

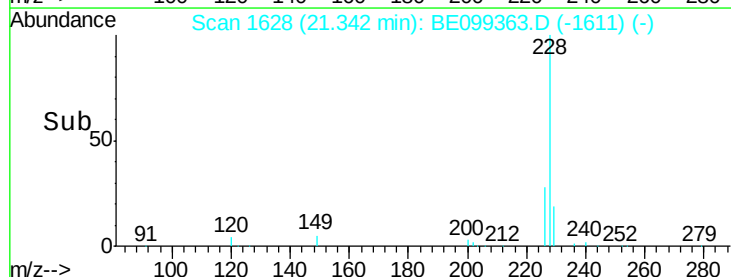
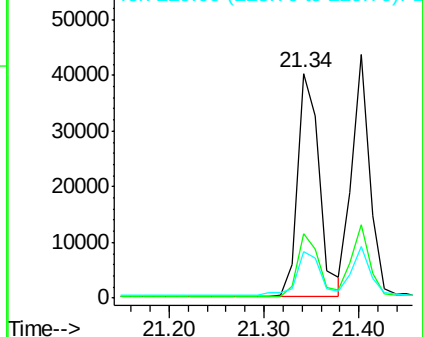
229 20.4 15.8 23.8

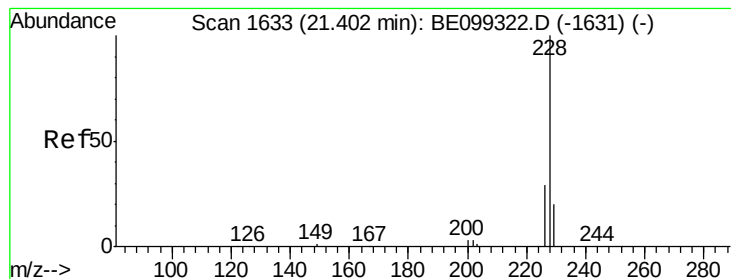


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.489 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampled :

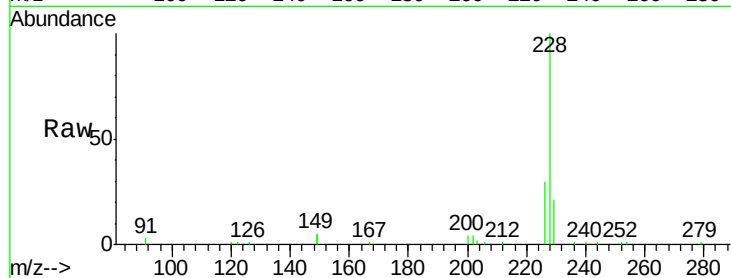
Tot Ion:228 Resp: 56361

Ion Ratio Lower Upper

228 100

226 30.0 23.4 35.2

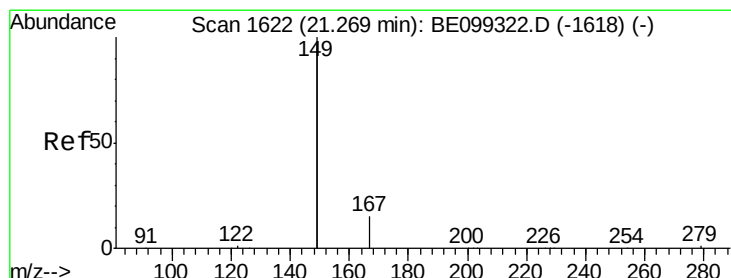
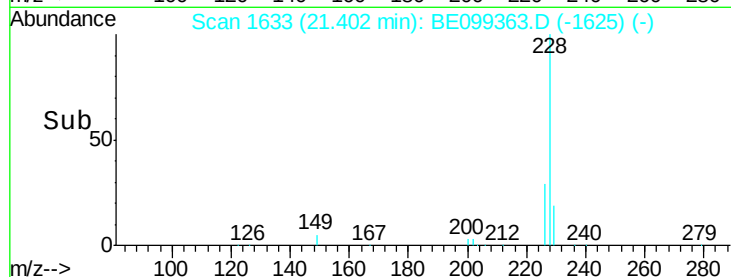
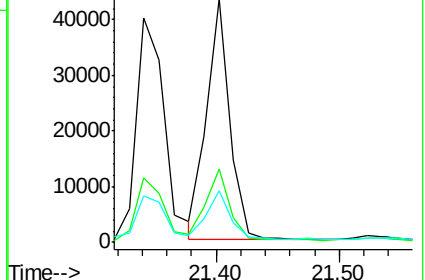
229 21.0 16.2 24.2



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: 1.870 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

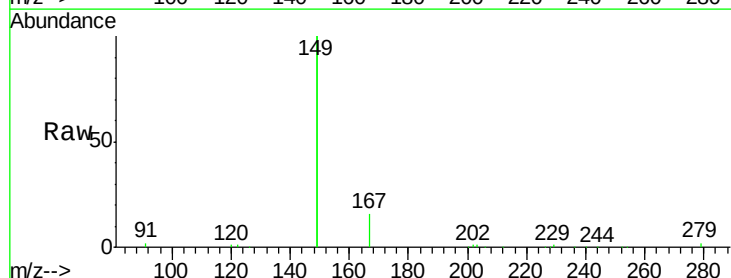
Tgt Ion:149 Resp: 184358

Ion Ratio Lower Upper

149 100

167 7.6 6.0 9.0

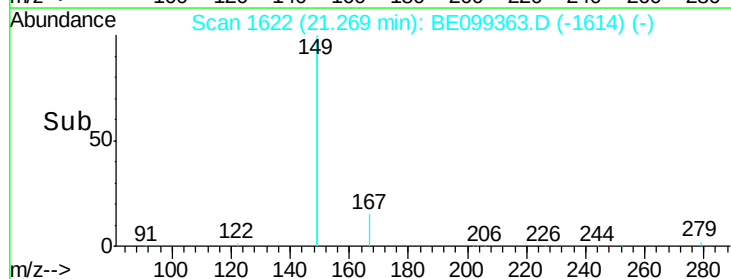
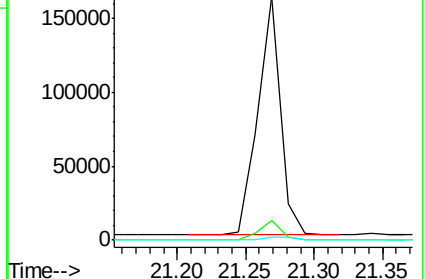
279 1.4 1.1 1.7

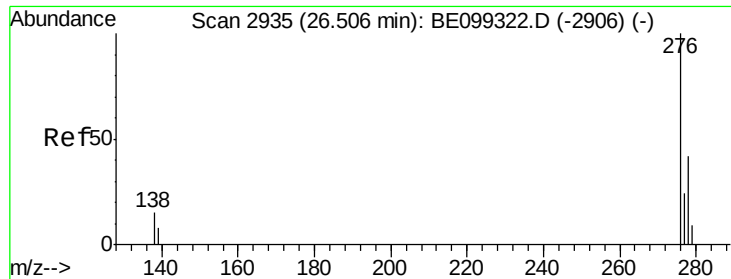


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

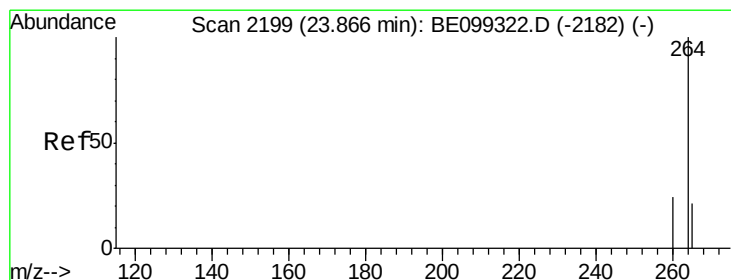
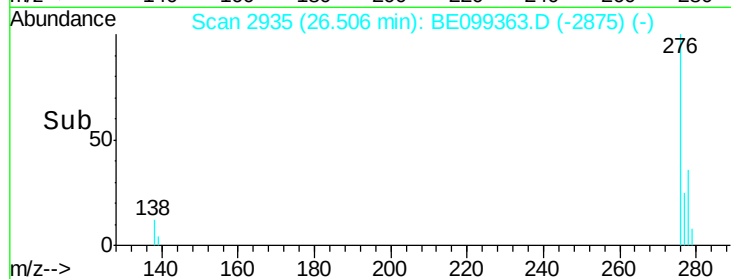
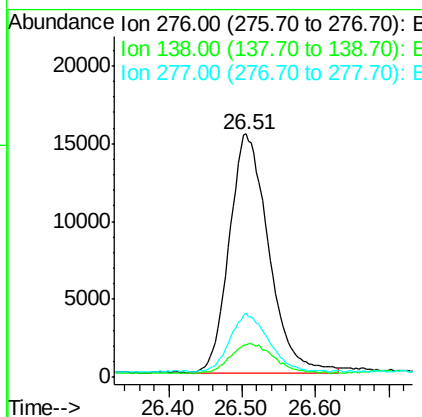
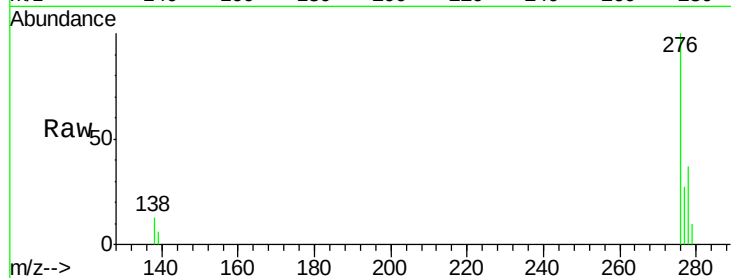




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.500 ng
 RT: 26.51 min Scan# 2935
 Delta R.T. 0.01 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

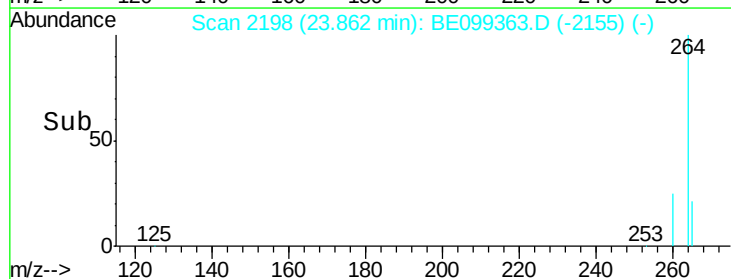
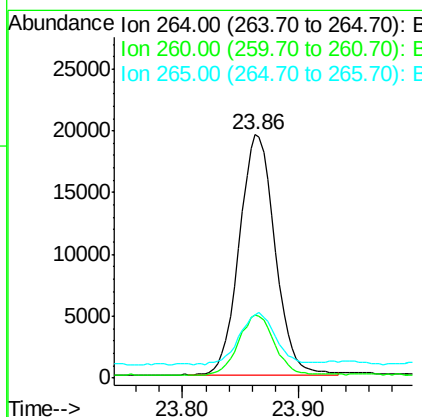
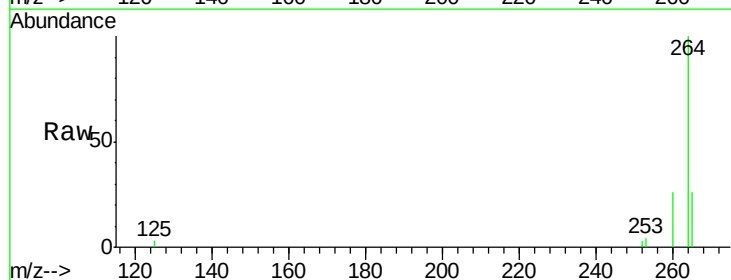
Instrument :
 BNA_E
 ClientSampleId :

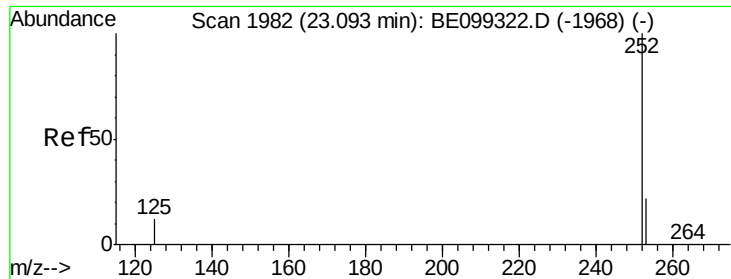
Tot Ion:276 Resp: 56940
 Ion Ratio Lower Upper
 276 100
 138 13.5 12.7 19.1
 277 23.7 19.6 29.4



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.86 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: BE099363.D
 Acq: 25 Apr 2019 16:14

Tgt Ion:264 Resp: 41492
 Ion Ratio Lower Upper
 264 100
 260 26.1 20.1 30.1
 265 26.2 19.9 29.9





#35

Benzo(b)fluoranthene

Concen: 0.467 ng

RT: 23.09 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

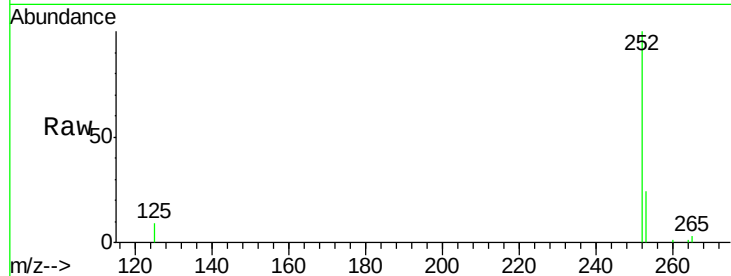
Tot Ion:252 Resp: 59309

Ion Ratio Lower Upper

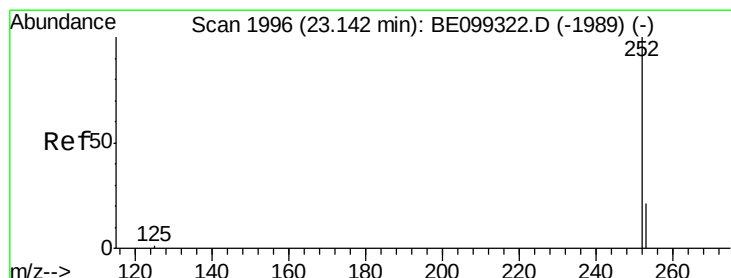
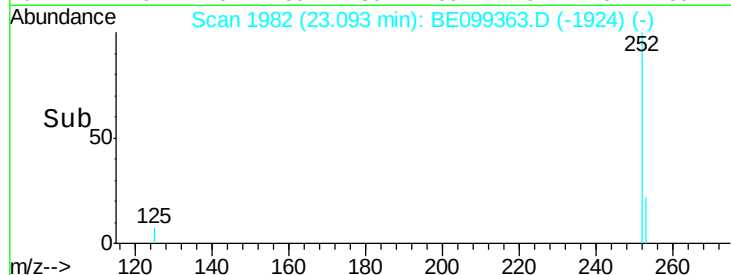
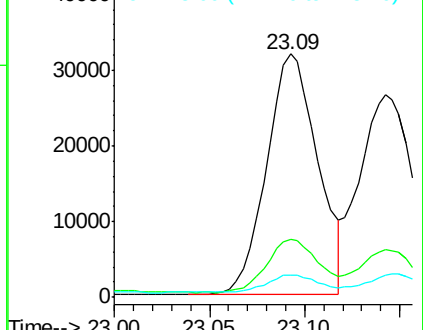
252 100

253 23.6 17.3 25.9

125 9.1 5.8 8.6#



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



#36

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 23.14 min Scan# 1996

Delta R.T. 0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

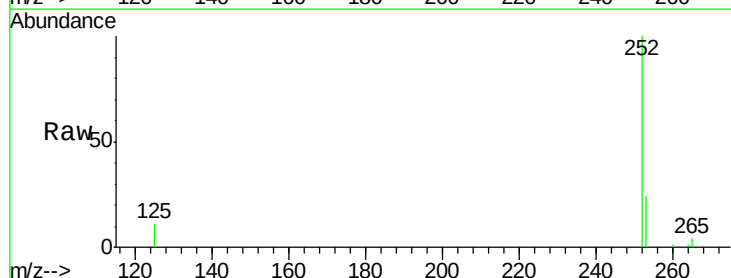
Tgt Ion:252 Resp: 50797

Ion Ratio Lower Upper

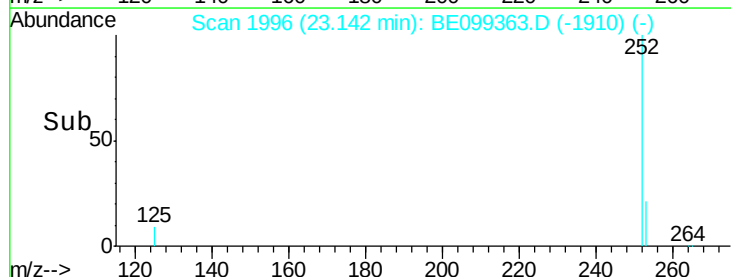
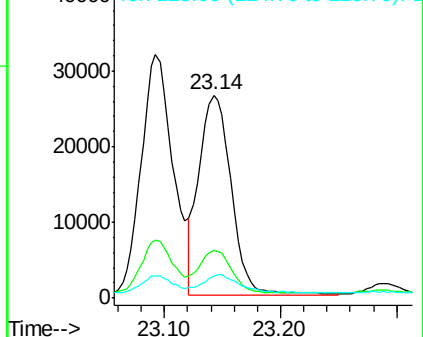
252 100

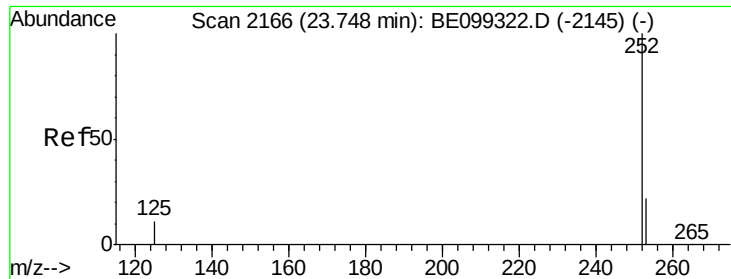
253 23.6 18.4 27.6

125 11.1 5.4 8.0#



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





#37

Benzo(a)pyrene

Concen: 0.471 ng

RT: 23.75 min Scan# 2166

Delta R.T. 0.00 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :

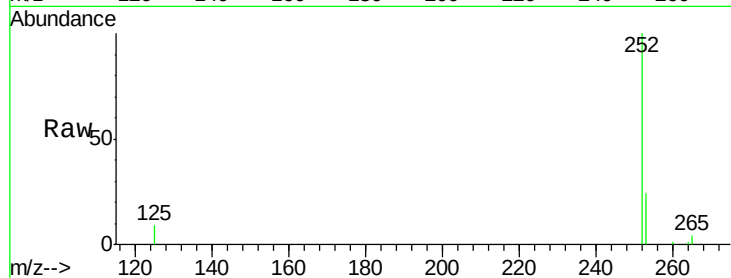
Tot Ion:252 Resp: 53646

Ion Ratio Lower Upper

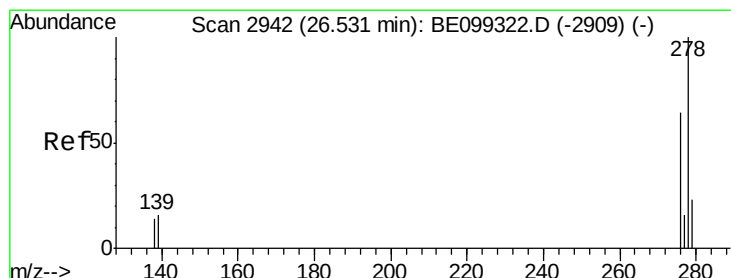
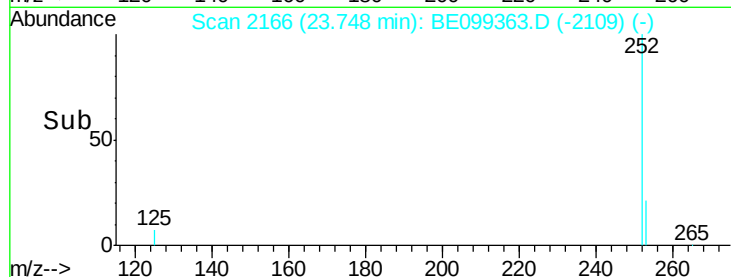
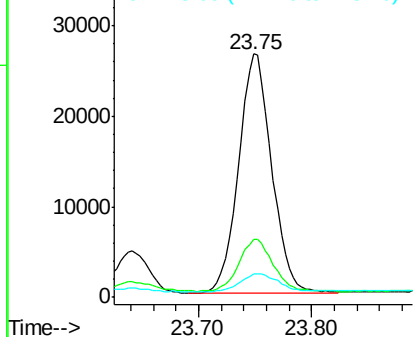
252 100

253 23.9 17.6 26.4

125 9.5 6.5 9.7



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



#38

Dibenzo(a,h)anthracene

Concen: 0.355 ng

RT: 26.53 min Scan# 2942

Delta R.T. 0.01 min

Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

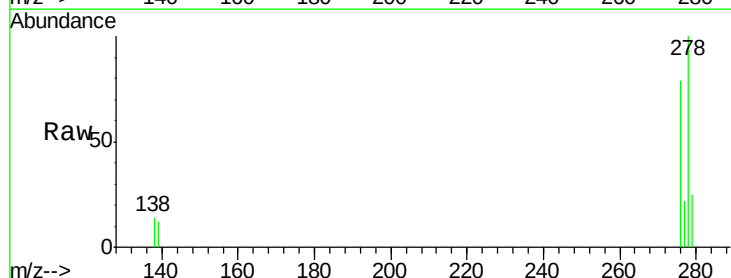
Tgt Ion:278 Resp: 41298

Ion Ratio Lower Upper

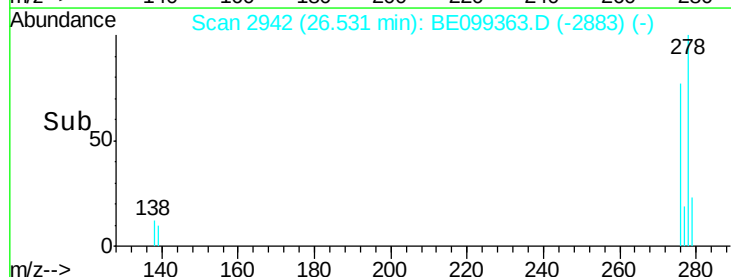
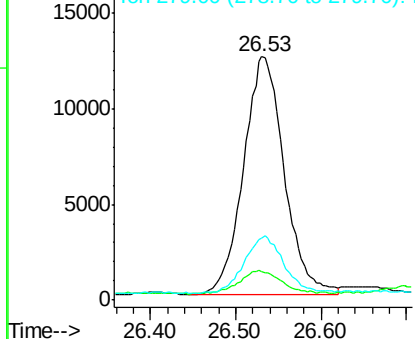
278 100

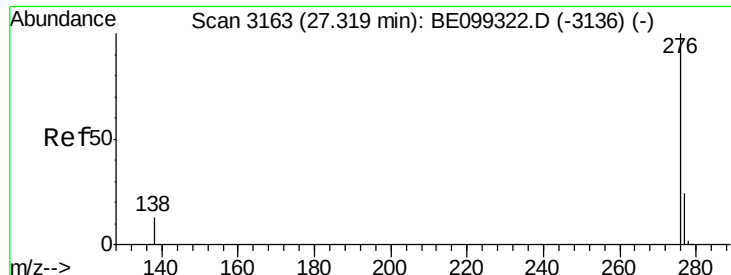
139 11.9 8.5 12.7

279 25.4 19.8 29.8



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





#39

Benzo(a,h,i)perylene

Concen: 0.403 ng

RT: 27.32 min Scan# 3164

Delta R.T. 0.02 min

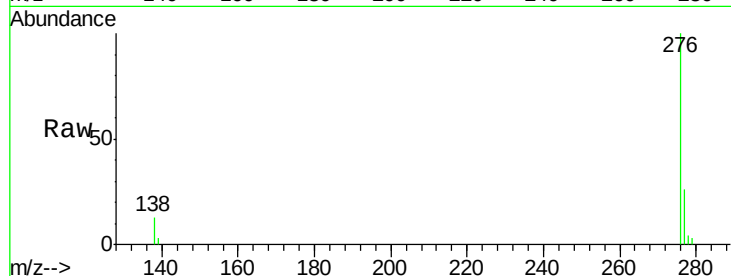
Lab File: BE099363.D

Acq: 25 Apr 2019 16:14

Instrument :

BNA_E

ClientSampleId :



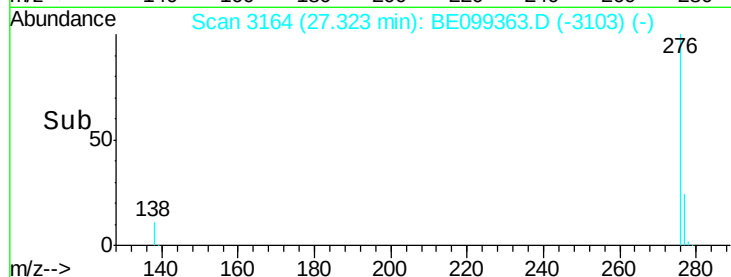
Tot Ion: 276 Resp: 47566

Ion Ratio Lower Upper

276 100

277 25.6 20.0 30.0

138 13.2 11.1 16.7



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

