

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
 Data File : BE099366.D
 Acq On : 25 Apr 2019 18:01
 Operator : JU/SJ
 Sample : K2534-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 26 00:43:06 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	4531	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	17960	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	13305	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	36593	0.40	ng	0.00
27) Chrysene-d12	21.37	240	38550	0.40	ng	0.00
34) Perylene-d12	23.86	264	44500	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	4705	0.42	ng	0.01
5) Phenol-d6	6.97	99	7016	0.44	ng	0.00
8) Nitrobenzene-d5	8.96	82	5703	0.41	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	11655	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2585	0.58	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	17163	0.33	ng	0.00
25) Fluoranthene-d10	19.22	212	152248	0.35	ng	0.00
29) Terphenyl-d14	19.82	244	25639	0.34	ng	0.00

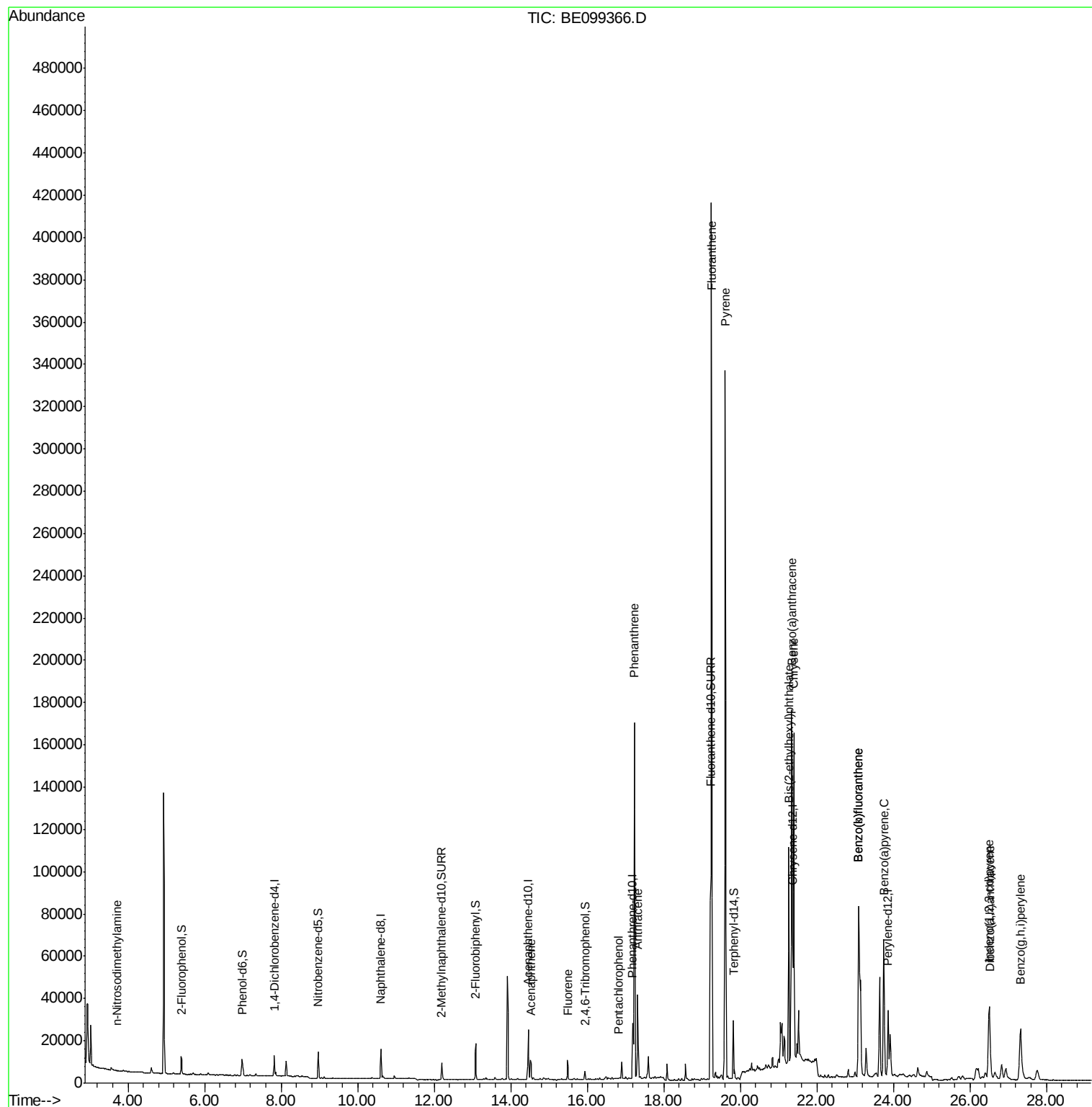
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.70	42	81	0.024	ng	# 1
17) Acenaphthene	14.51	154	5164	0.139	ng	98
18) Fluorene	15.49	166	6708	0.126	ng	99
22) Pentachlorophenol	16.81	266	15	0.222	ng	# 59
23) Phenanthrene	17.23	178	191184	1.973	ng	99
24) Anthracene	17.32	178	40277	0.467	ng	# 96
26) Fluoranthene	19.25	202	380927	2.937	ng	98
28) Pyrene	19.61	202	308412	2.716	ng	# 94
30) Benzo(a)anthracene	21.34	228	152736	1.348	ng	99
31) Chrysene	21.40	228	142794	1.184	ng	97
32) Bis(2-ethylhexyl)phthalate	21.27	149	116046	1.125	ng	100
33) Indeno(1,2,3-cd)pyrene	26.50	276	71392	0.599	ng	# 94
35) Benzo(b)fluoranthene	23.09	252	157156	1.154	ng	97
36) Benzo(k)fluoranthene	23.09	252	157156	1.157	ng	100
37) Benzo(a)pyrene	23.75	252	108620	0.890	ng	97
38) Dibenzo(a,h)anthracene	26.52	278	15938	0.128	ng	# 90
39) Benzo(a,h,i)perylene	27.32	276	68715	0.543	ng	97

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

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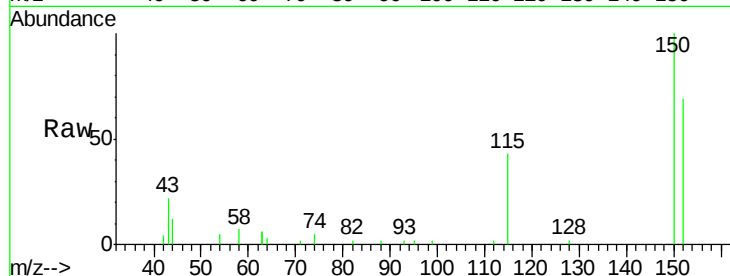


#1

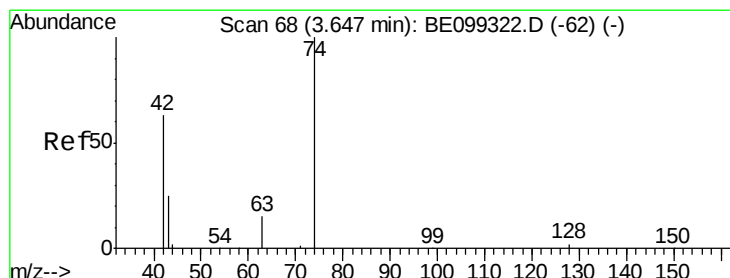
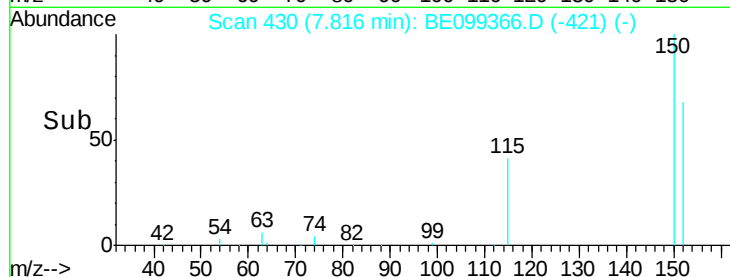
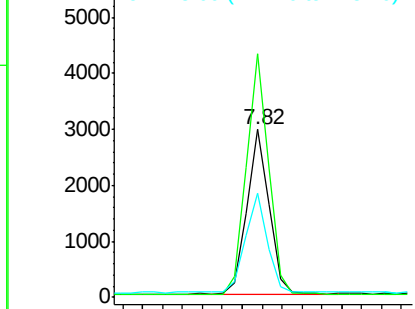
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099366.D
Acq: 25 Apr 2019 18:01

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 4531
Ion Ratio Lower Upper
152 100
150 145.4 119.5 179.3
115 62.0 47.5 71.3



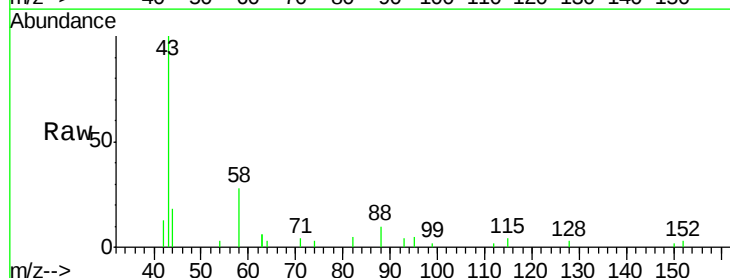
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



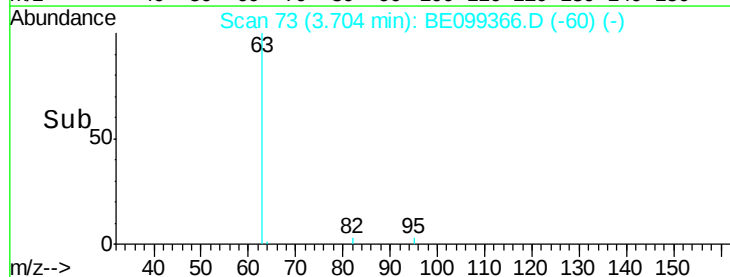
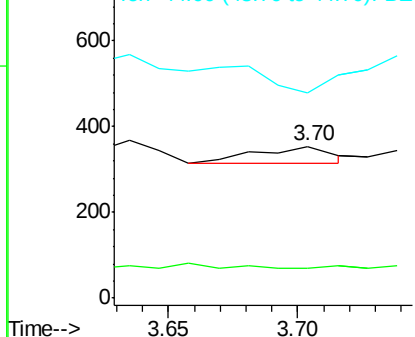
#3

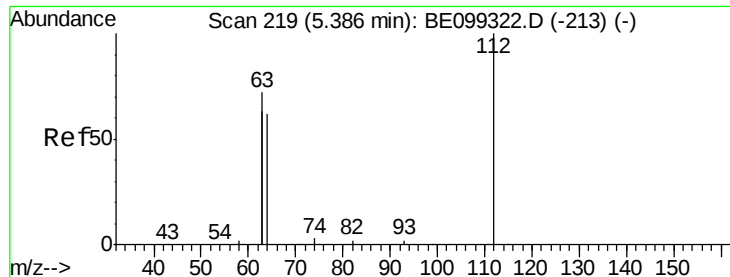
n-Nitrosodimethylamine
Concen: 0.024 ng
RT: 3.70 min Scan# 73
Delta R.T. 0.05 min
Lab File: BE099366.D
Acq: 25 Apr 2019 18:01

Tgt Ion: 42 Resp: 81
Ion Ratio Lower Upper
42 100
74 0.0 145.8 218.8#
44 0.0 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: 0.425 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampled :

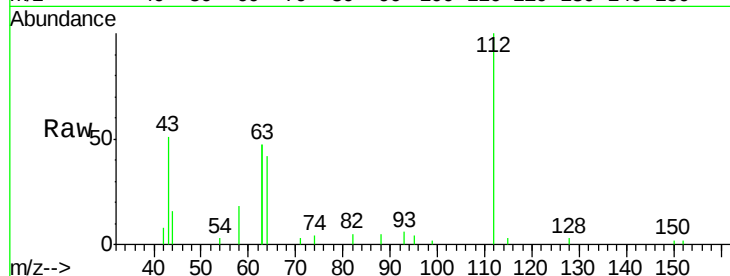
Tot Ion: 112 Resp: 4705

Ion Ratio Lower Upper

112 100

64 57.2 44.9 67.3

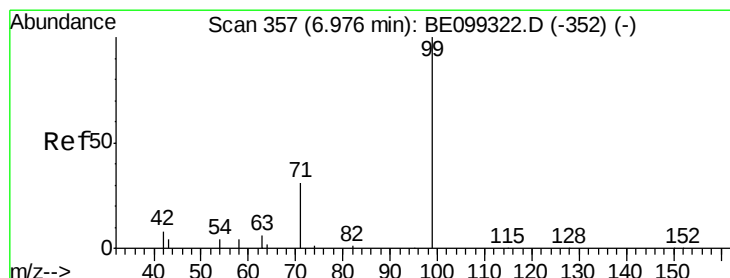
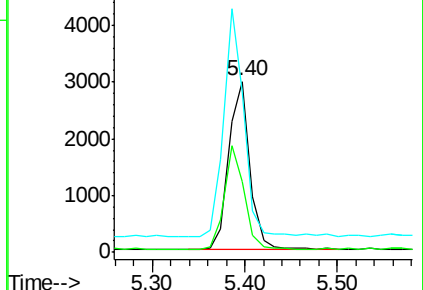
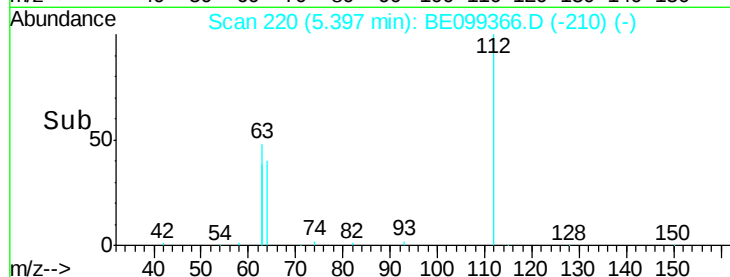
63 128.5 97.4 146.0



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: 0.444 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

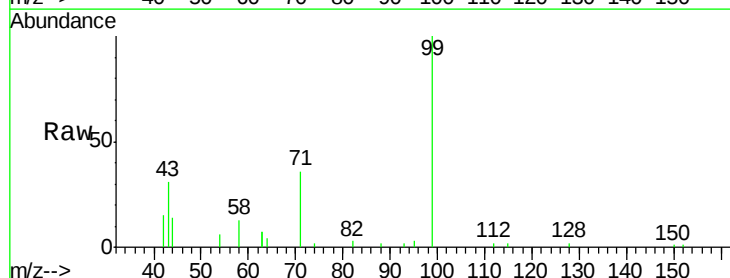
Tgt Ion: 99 Resp: 7016

Ion Ratio Lower Upper

99 100

42 17.8 11.7 17.5#

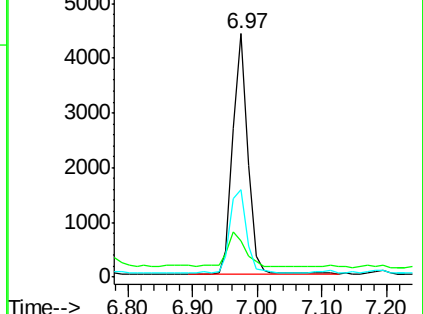
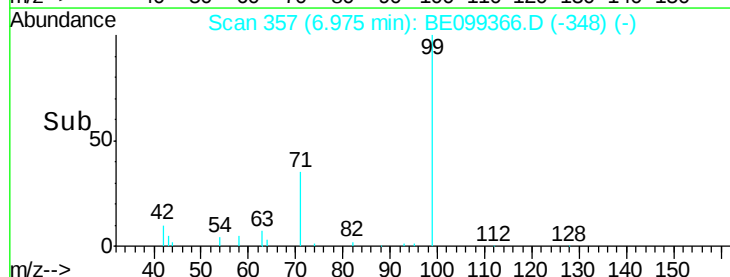
71 38.7 29.6 44.4

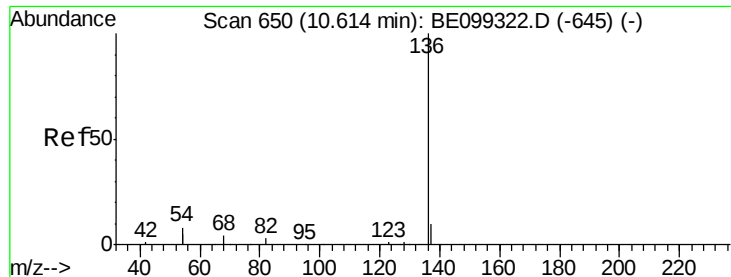


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 17960

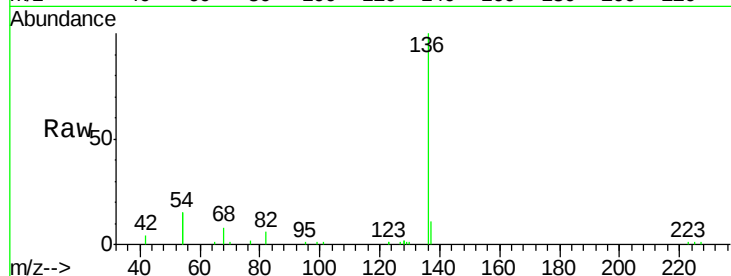
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 29.8 23.8 35.8

68 8.2 6.4 9.6

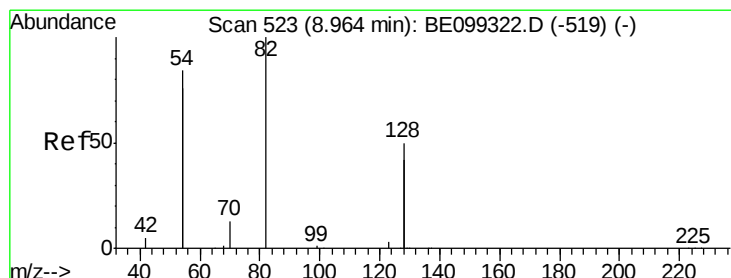
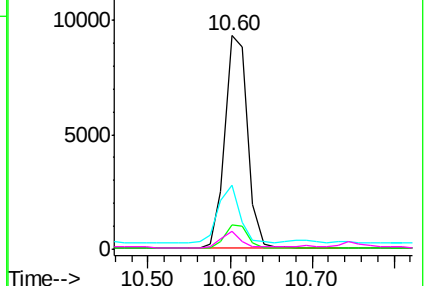
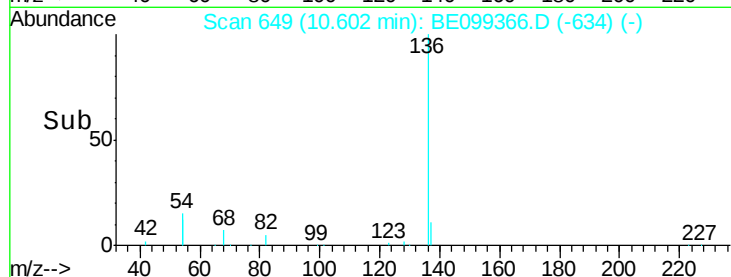


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.409 ng

RT: 8.96 min Scan# 523

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

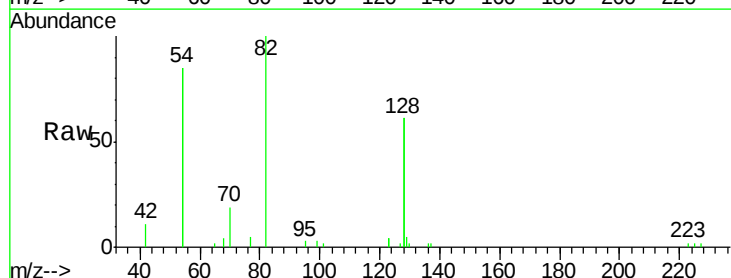
Tgt Ion: 82 Resp: 5703

Ion Ratio Lower Upper

82 100

128 121.6 91.7 137.5

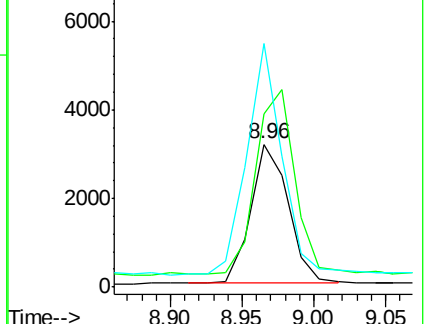
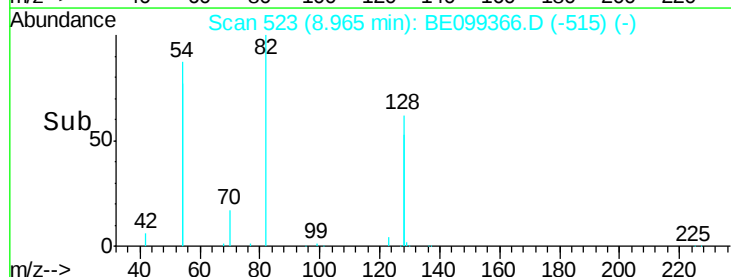
54 170.4 122.8 184.2

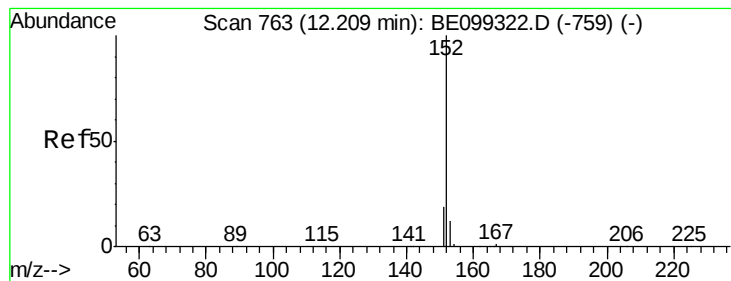


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

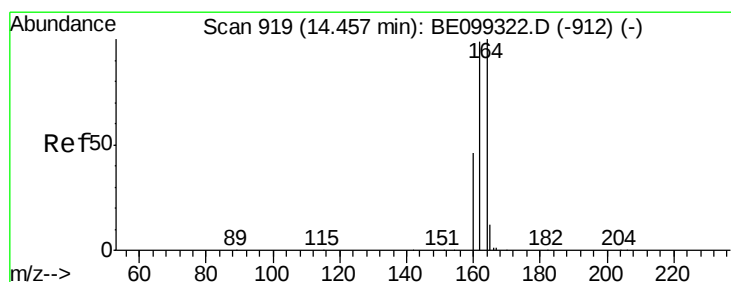
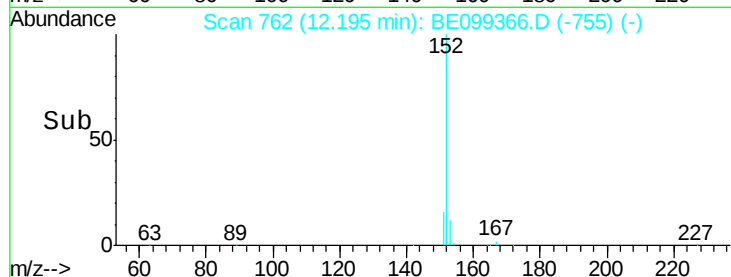
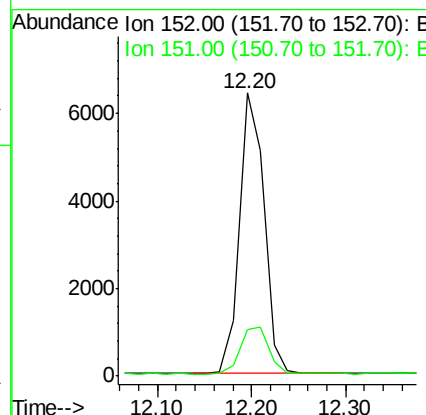
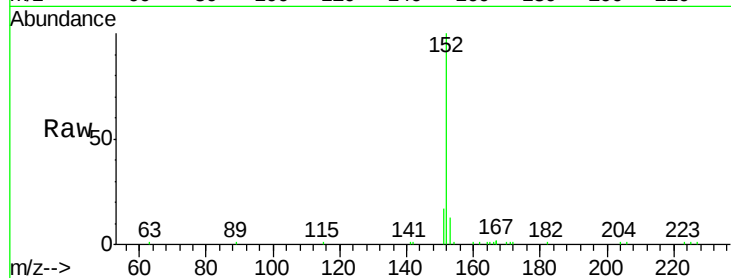




#11
 2-Methylnaphthalene-d10
 Concen: 0.368 ng
 RT: 12.20 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

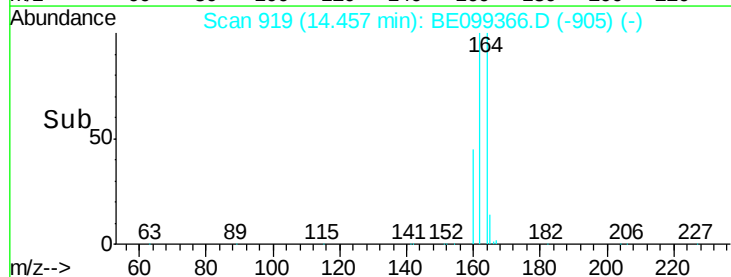
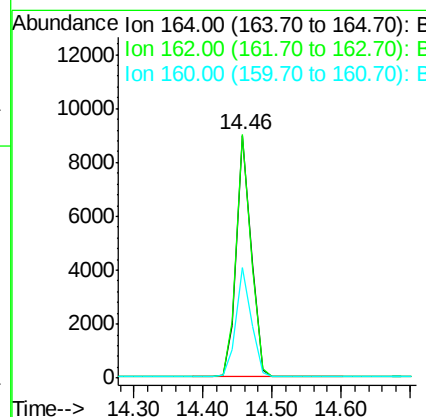
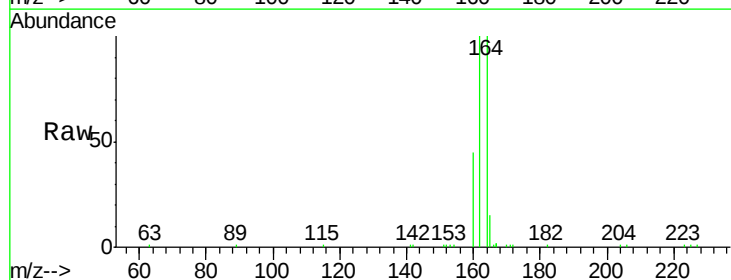
Instrument :
 BNA_E
 ClientSampleId :

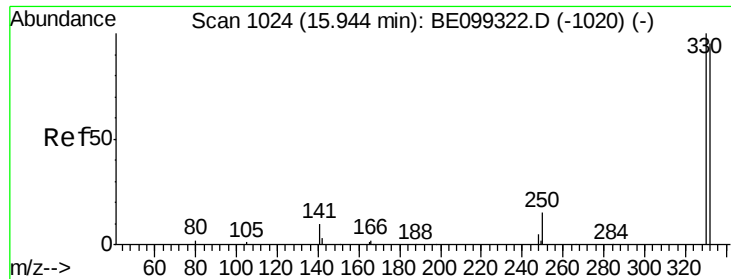
Tot Ion:152 Resp: 11655
 Ion Ratio Lower Upper
 152 100
 151 19.7 14.9 22.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

Tgt Ion:164 Resp: 13305
 Ion Ratio Lower Upper
 164 100
 162 100.2 77.8 116.6
 160 45.4 37.1 55.7

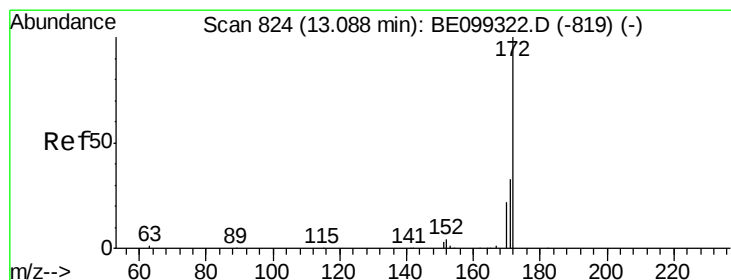
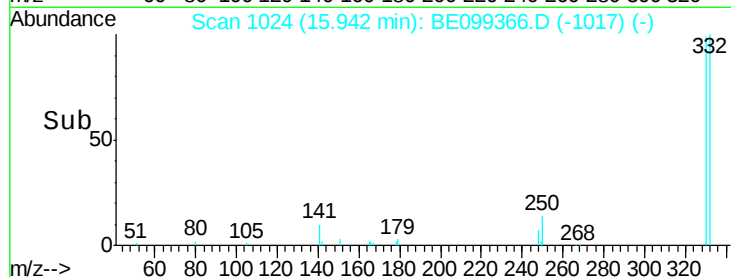
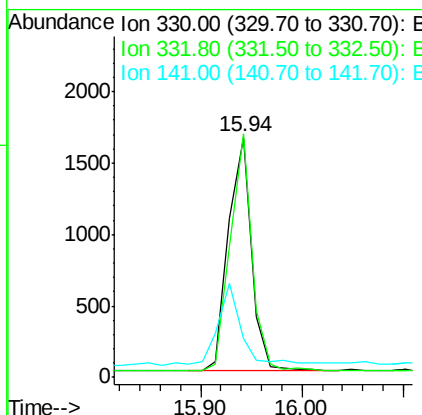
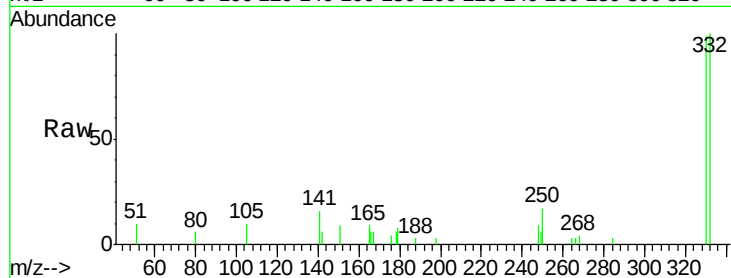




#14
 2,4,6-Tribromophenol
 Concen: 0.585 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

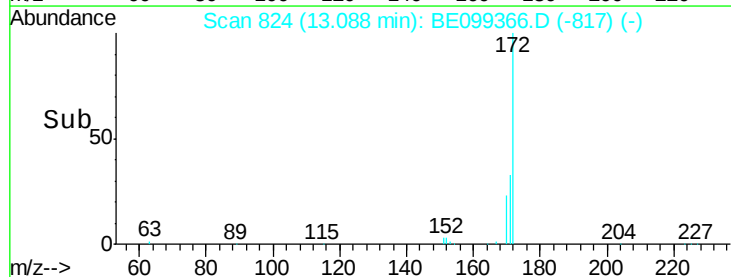
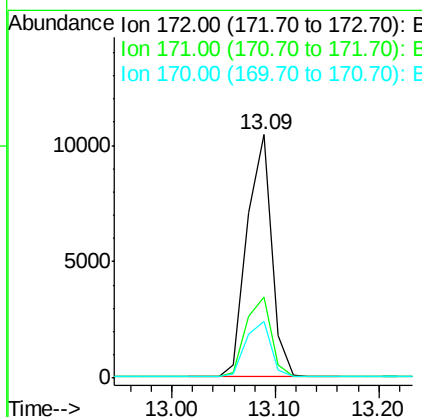
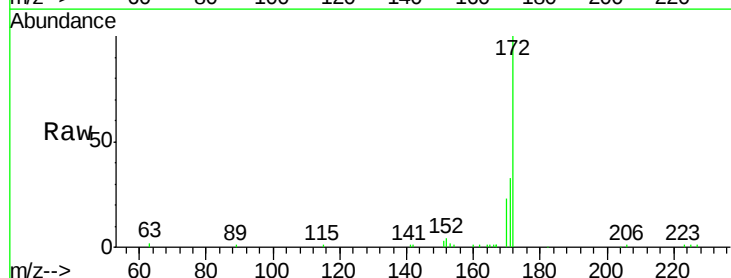
Instrument :
 BNA_E
 ClientSampleId :

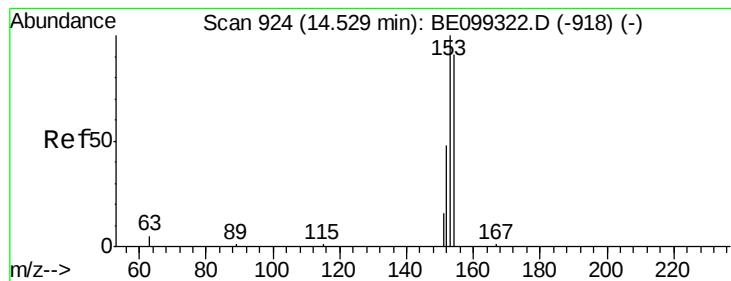
Tot Ion:330 Resp: 2585
 Ion Ratio Lower Upper
 330 100
 332 96.2 82.5 123.7
 141 32.8 24.9 37.3



#15
 2-Fluorobiphenyl
 Concen: 0.328 ng
 RT: 13.09 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

Tgt Ion:172 Resp: 17163
 Ion Ratio Lower Upper
 172 100
 171 33.1 26.2 39.2
 170 23.1 18.1 27.1





#17

Acenaphthene

Concen: 0.139 ng

RT: 14.51 min Scan# 923

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

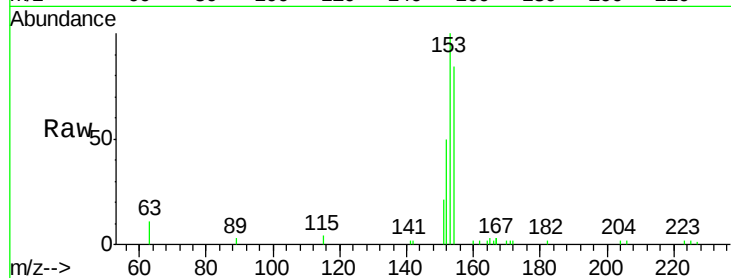
Tot Ion:154 Resp: 5164

Ion Ratio Lower Upper

154 100

153 117.6 94.7 142.1

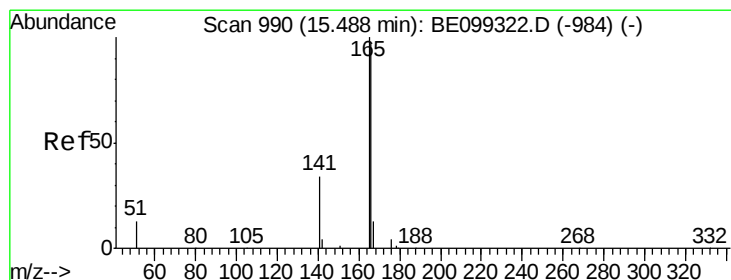
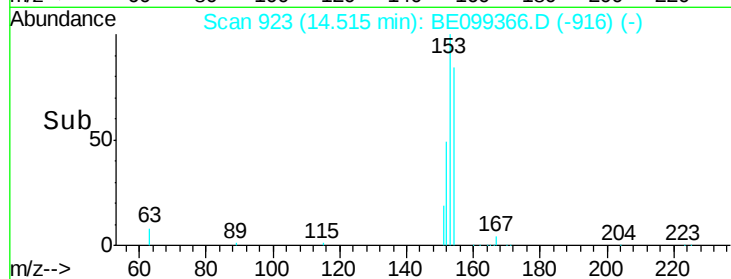
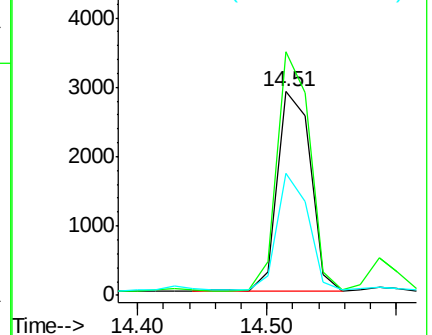
152 55.5 46.4 69.6



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: 0.126 ng

RT: 15.49 min Scan# 990

Delta R.T. -0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

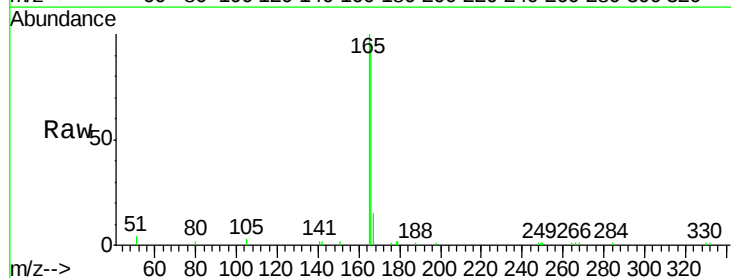
Tgt Ion:166 Resp: 6708

Ion Ratio Lower Upper

166 100

165 99.5 79.7 119.5

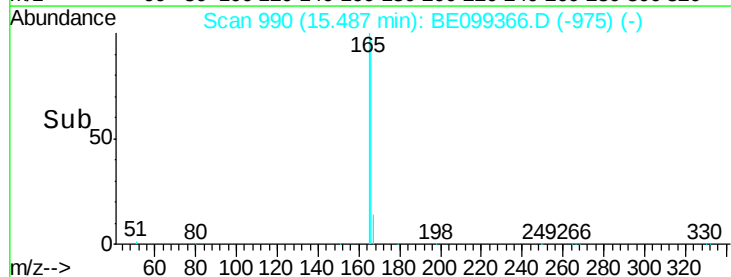
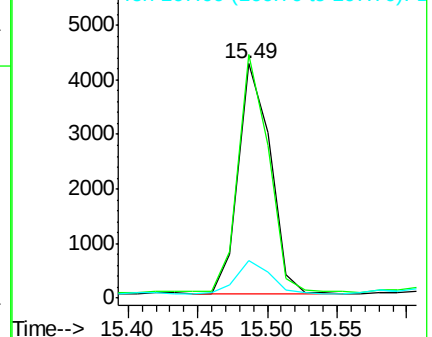
167 16.1 11.0 16.4

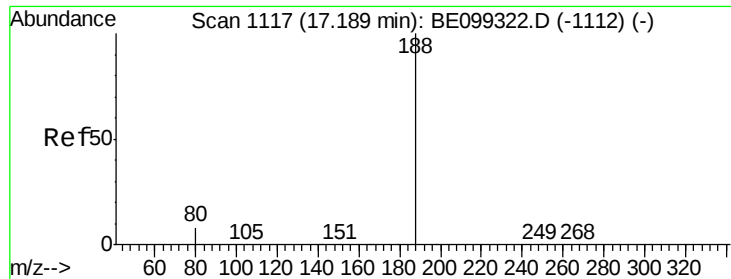


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

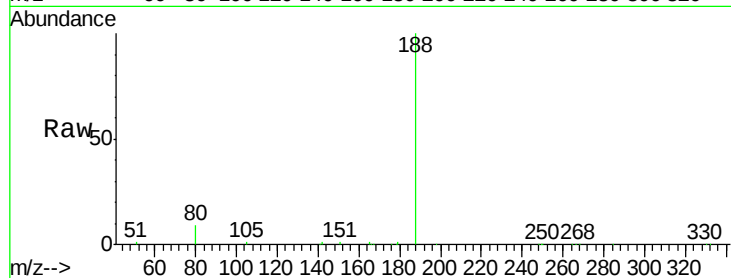
Tot Ion:188 Resp: 36593

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

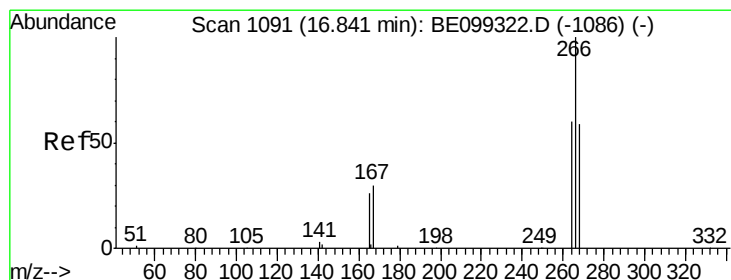
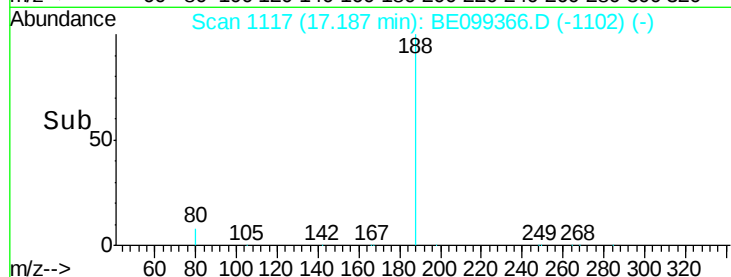
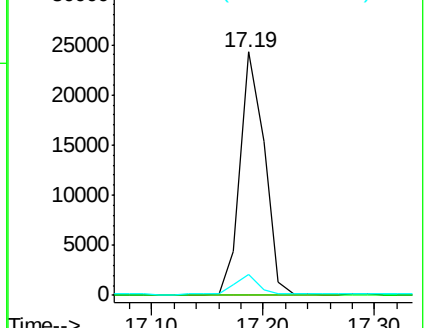
80 8.7 6.2 9.4



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



#22

Pentachlorophenol

Concen: 0.222 ng

RT: 16.81 min Scan# 1089

Delta R.T. -0.03 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

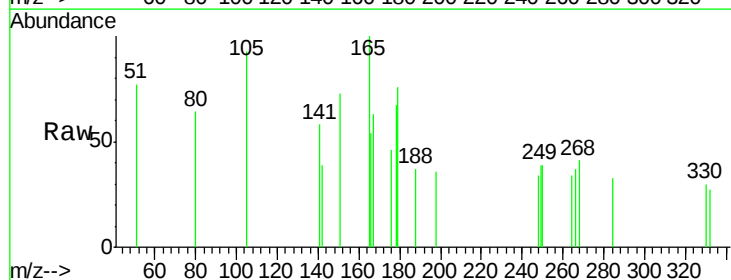
Tgt Ion:266 Resp: 15

Ion Ratio Lower Upper

266 100

264 91.9 54.5 81.7#

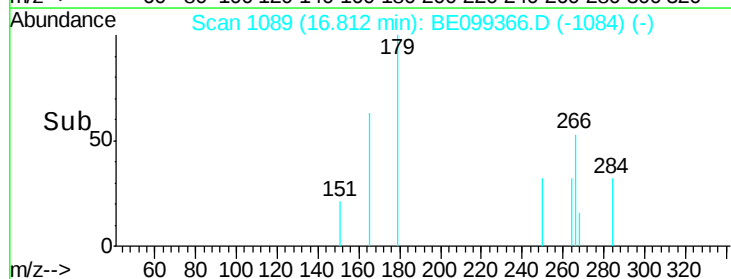
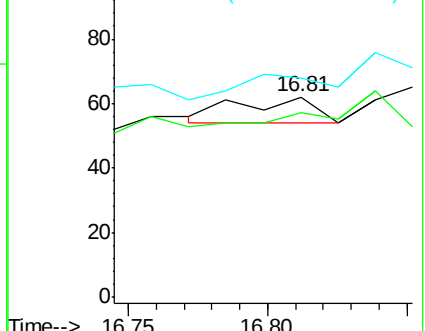
268 109.7 54.3 81.5#

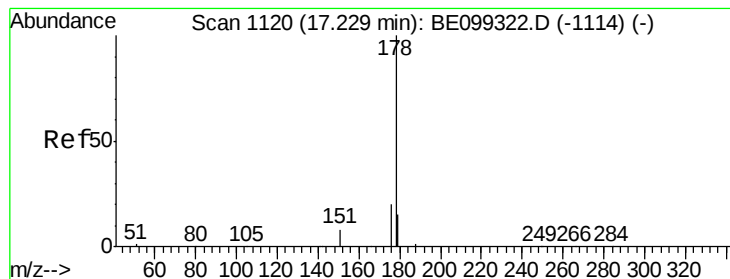


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 1.973 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

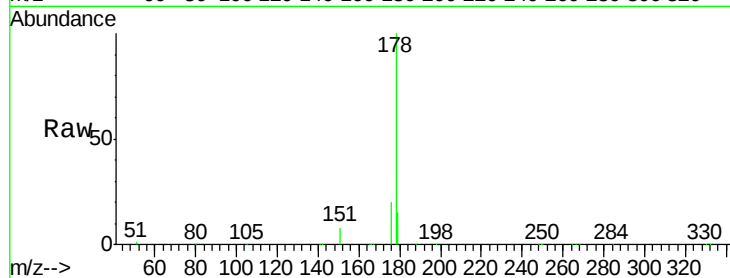
Tot Ion:178 Resp: 191184

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

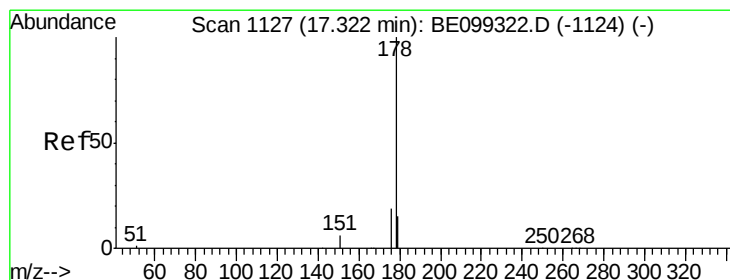
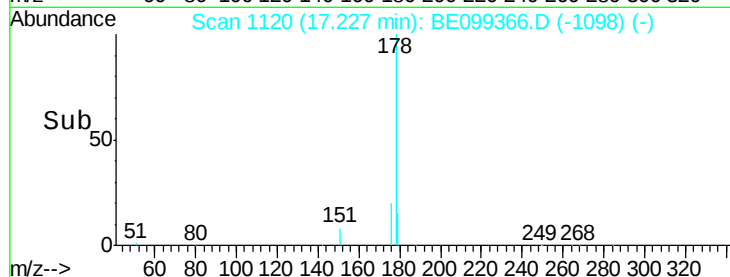
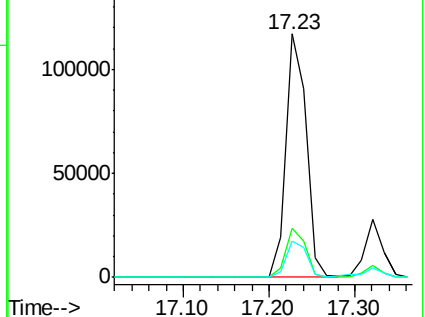
179 15.2 12.4 18.6



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: 0.467 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

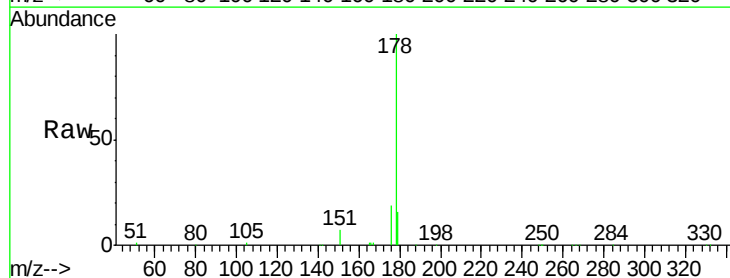
Tgt Ion:178 Resp: 40277

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

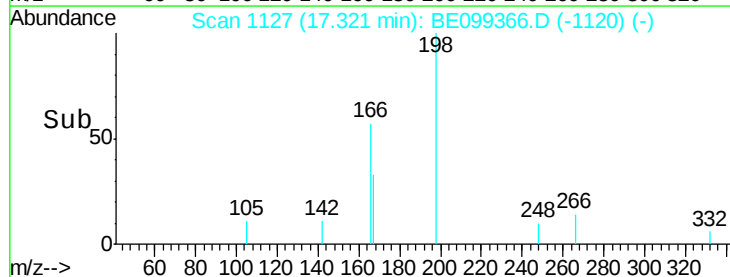
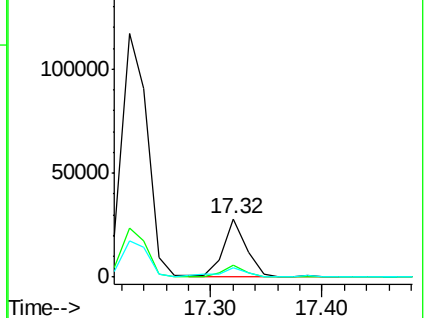
179 18.0 11.9 17.9#

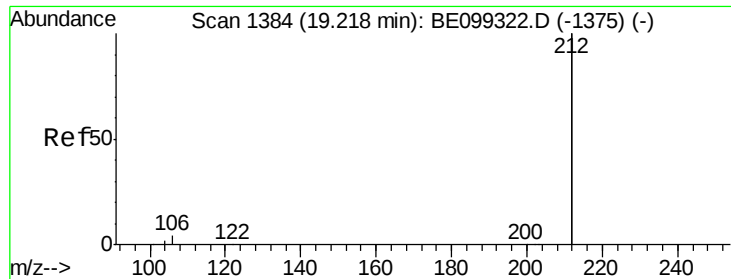


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.346 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

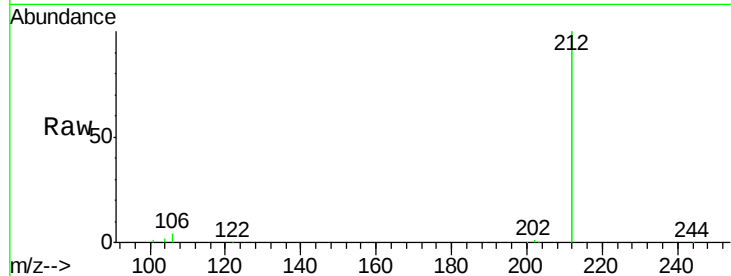
Tot Ion:212 Resp: 152248

Ion Ratio Lower Upper

212 100

106 2.0 1.8 2.6

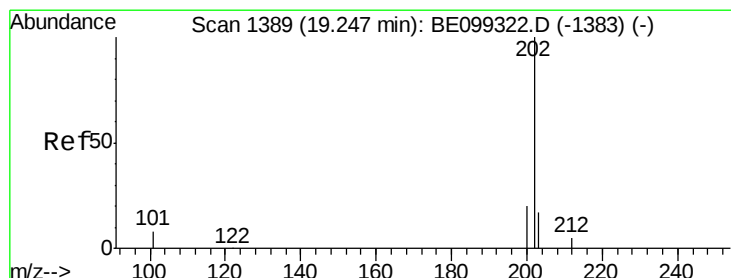
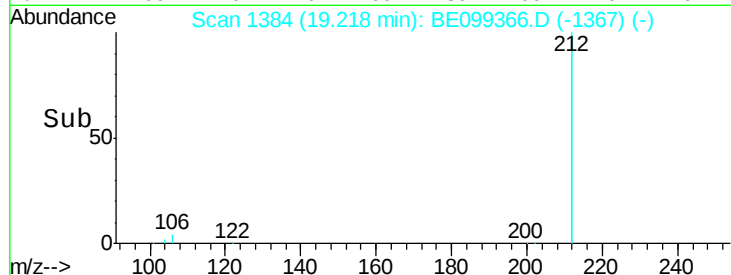
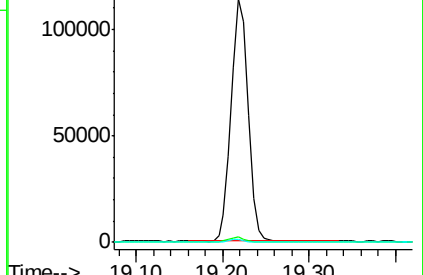
104 1.1 1.0 1.4



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: 2.937 ng

RT: 19.25 min Scan# 1389

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

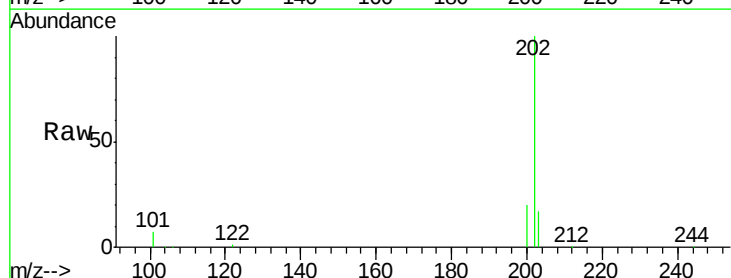
Tgt Ion:202 Resp: 380927

Ion Ratio Lower Upper

202 100

101 6.9 6.4 9.6

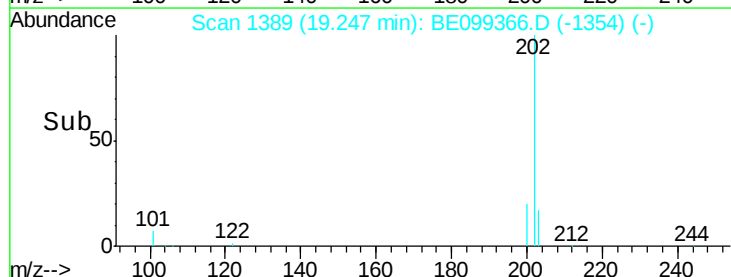
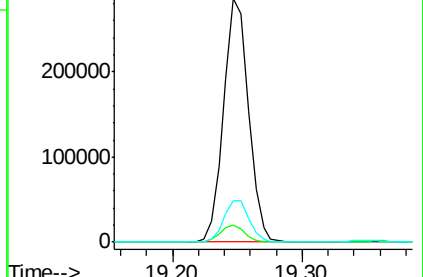
203 17.4 13.5 20.3

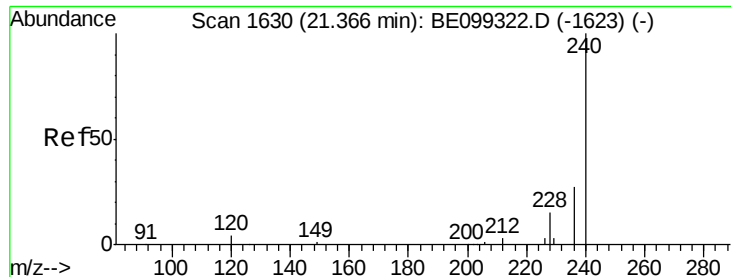


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

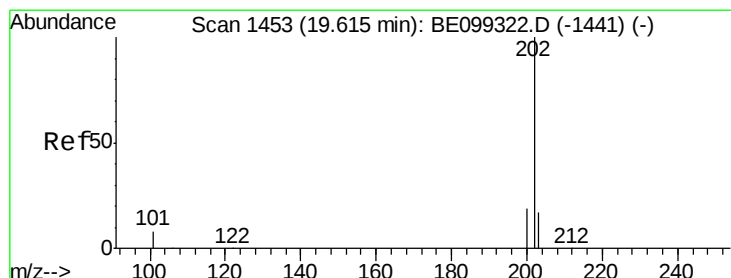
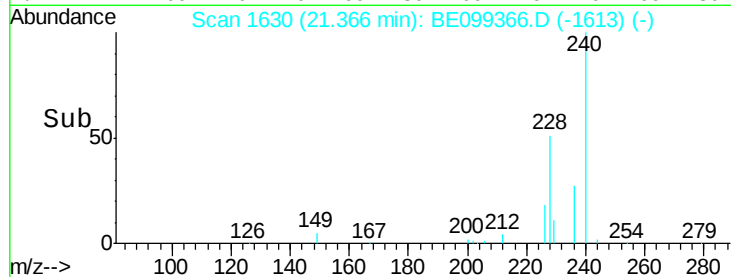
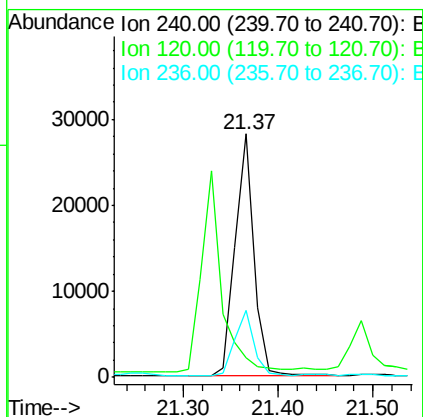
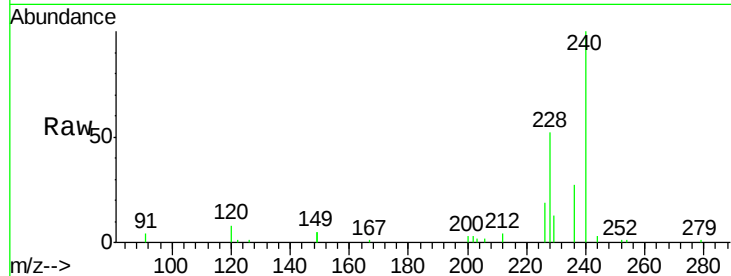




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

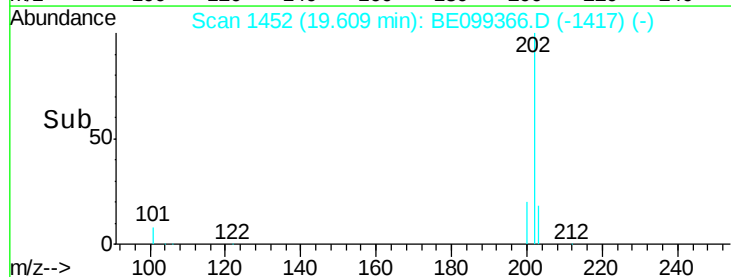
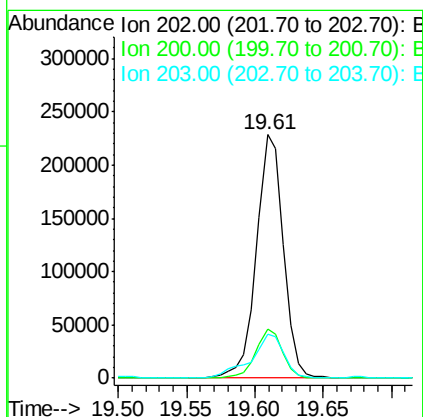
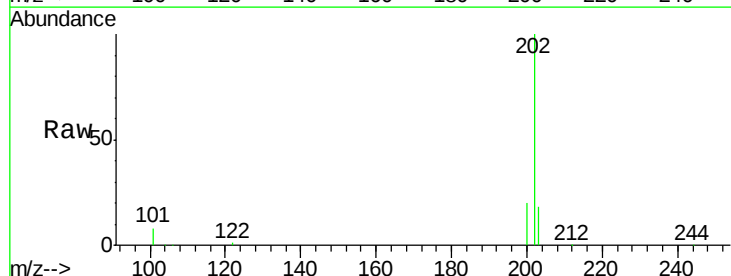
Instrument :
 BNA_E
 ClientSampleId :

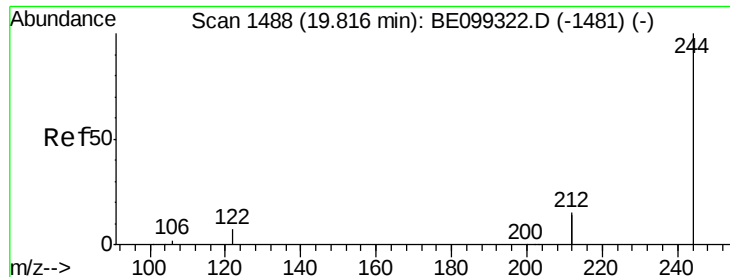
Tot Ion:240 Resp: 38550
 Ion Ratio Lower Upper
 240 100
 120 8.3 2.2 3.2#
 236 27.4 20.2 30.4



#28
 Pyrene
 Concen: 2.716 ng
 RT: 19.61 min Scan# 1452
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

Tgt Ion:202 Resp: 308412
 Ion Ratio Lower Upper
 202 100
 200 19.9 15.7 23.5
 203 22.0 13.7 20.5#





#29

Terphenyl-d14

Concen: 0.338 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampled :

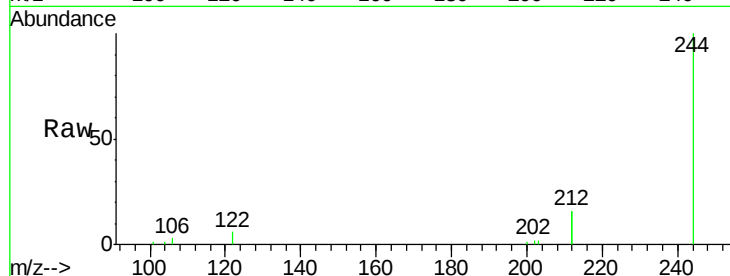
Tot Ion:244 Resp: 25639

Ion Ratio Lower Upper

244 100

212 31.0 22.6 33.8

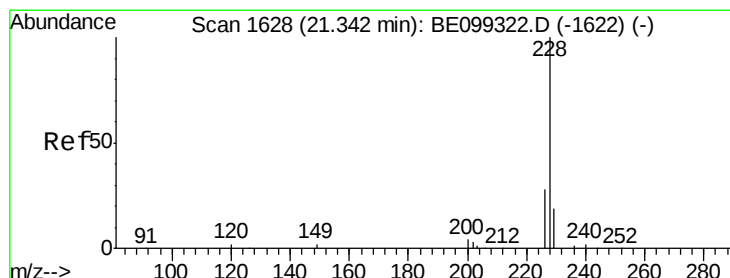
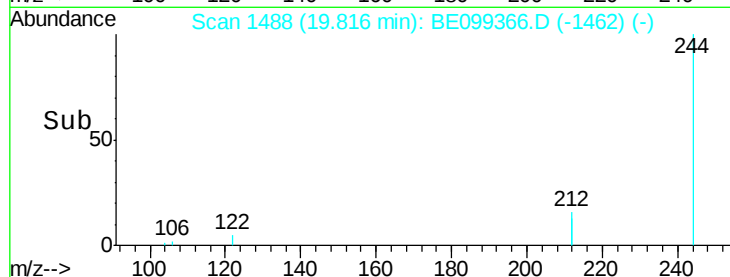
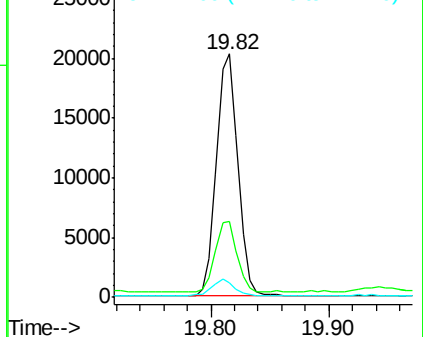
122 5.9 4.6 7.0



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: 1.348 ng

RT: 21.34 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

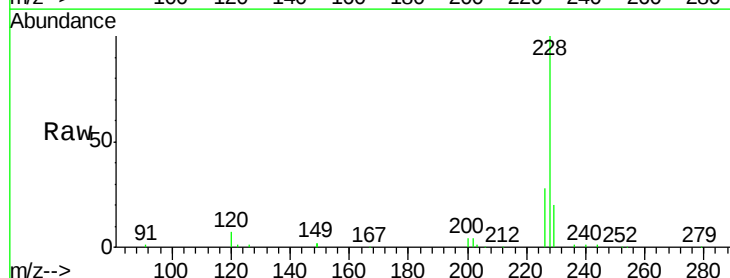
Tgt Ion:228 Resp: 152736

Ion Ratio Lower Upper

228 100

226 28.1 22.0 33.0

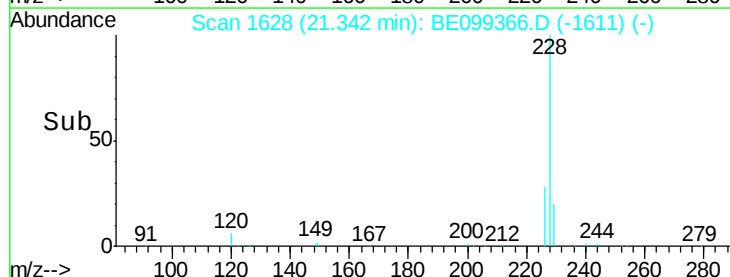
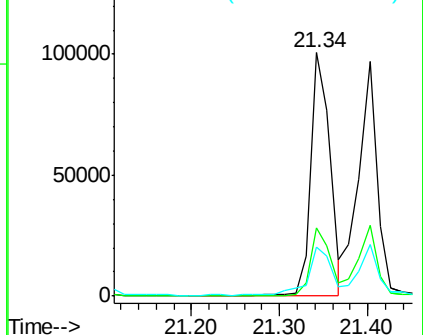
229 20.2 15.8 23.8

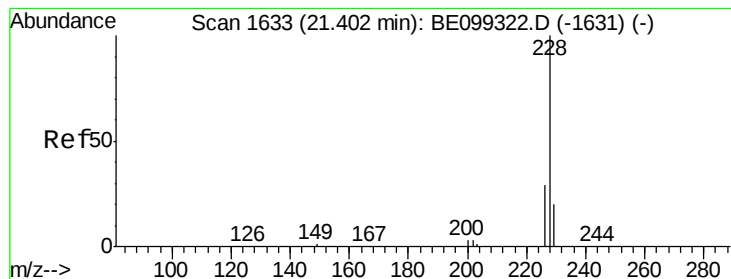


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.184 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

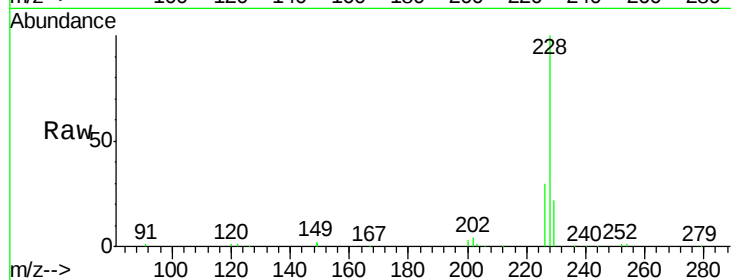
Instrument :

BNA_E

ClientSampleId :

Tot Ion:228 Resp: 142794

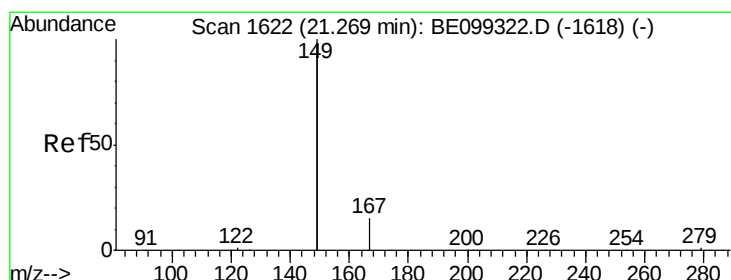
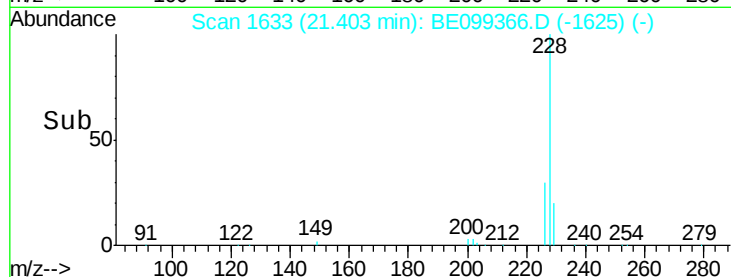
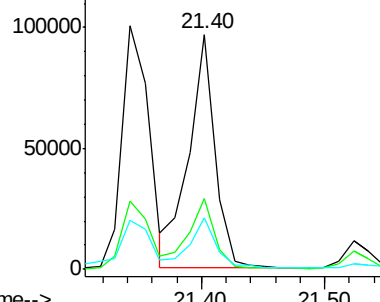
Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.4	35.2
229	22.2	16.2	24.2



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: 1.125 ng

RT: 21.27 min Scan# 1622

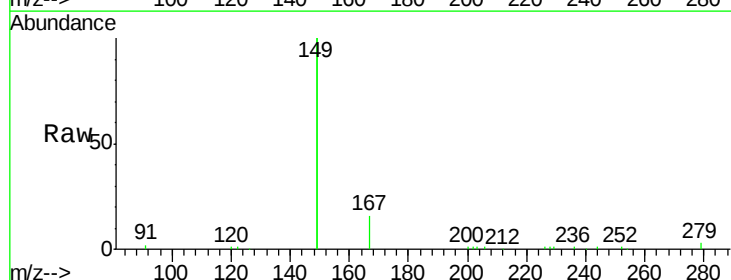
Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Tgt Ion:149 Resp: 116046

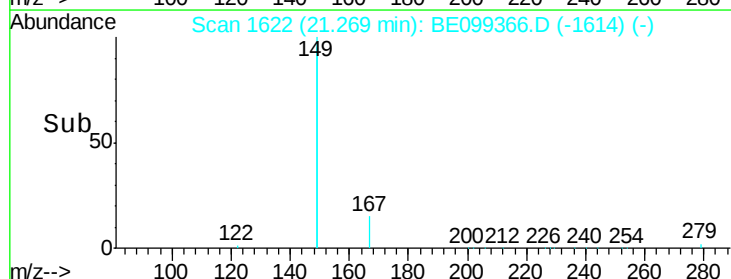
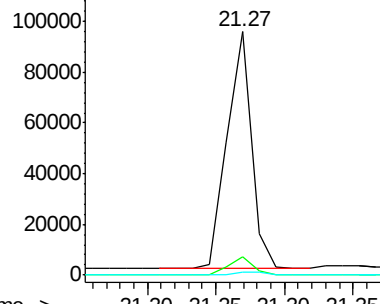
Ion	Ratio	Lower	Upper
149	100		
167	7.4	6.0	9.0
279	1.3	1.1	1.7

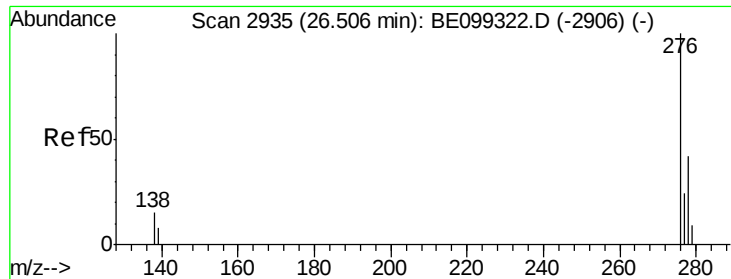


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

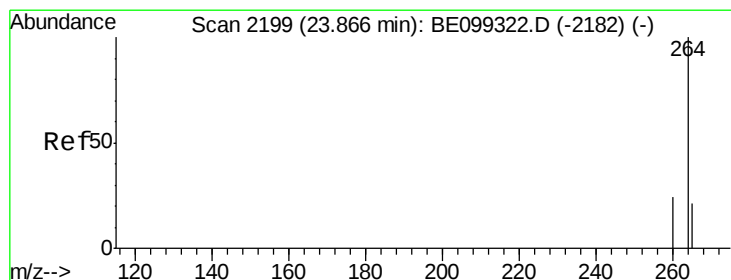
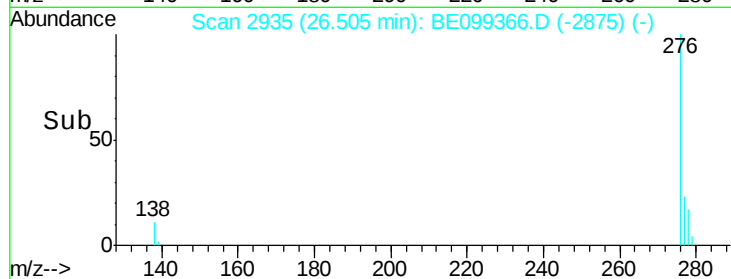
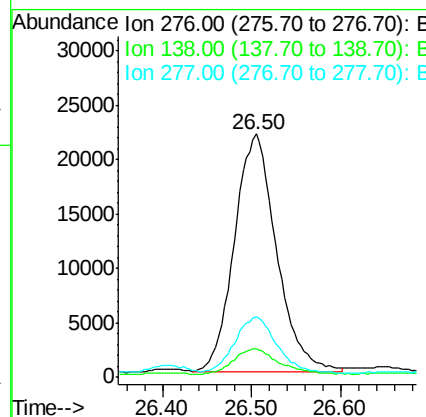
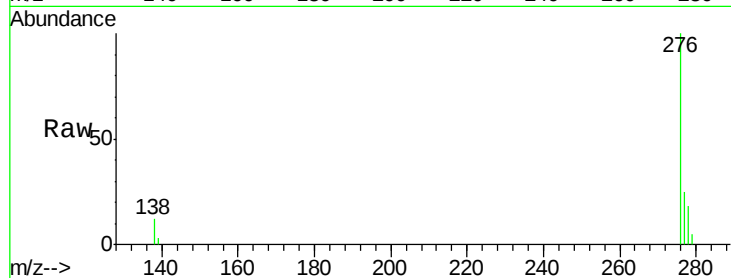




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.599 ng
 RT: 26.50 min Scan# 2935
 Delta R.T. 0.01 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

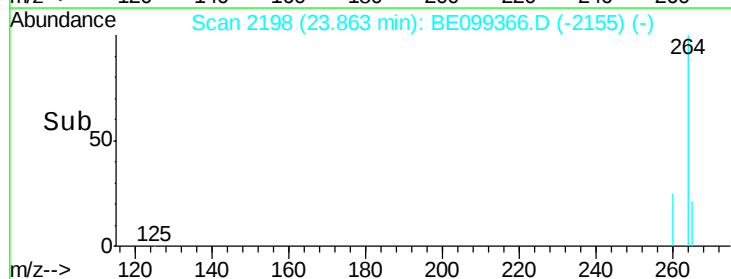
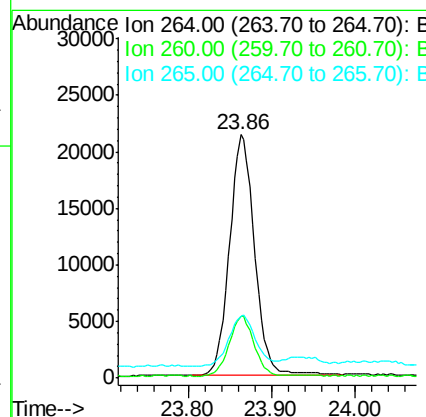
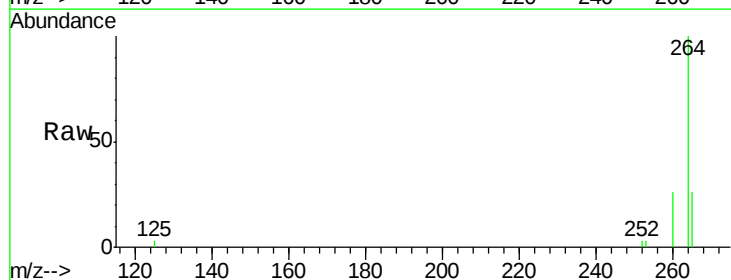
Instrument :
 BNA_E
 ClientSampleId :

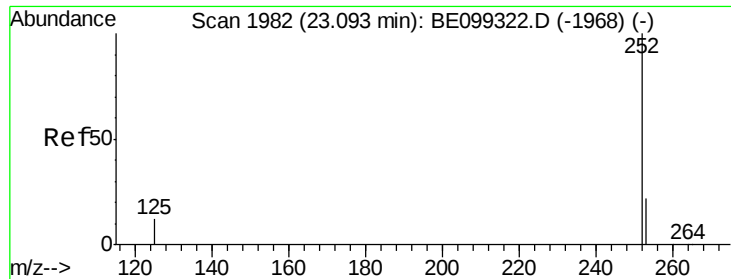
Tot Ion:276 Resp: 71392
 Ion Ratio Lower Upper
 276 100
 138 11.4 12.7 19.1#
 277 22.7 19.6 29.4



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.86 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: BE099366.D
 Acq: 25 Apr 2019 18:01

Tgt Ion:264 Resp: 44500
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.1 30.1
 265 25.6 19.9 29.9





#35

Benzo(b)fluoranthene

Concen: 1.154 ng

RT: 23.09 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

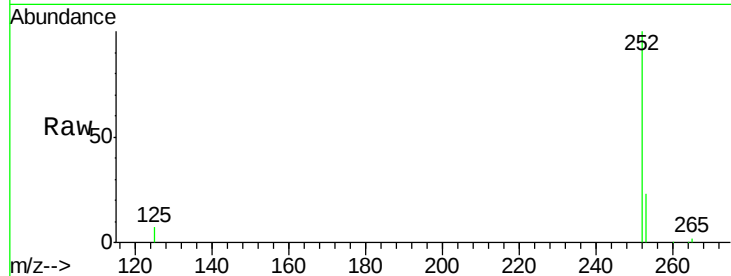
Tot Ion:252 Resp: 157156

Ion Ratio Lower Upper

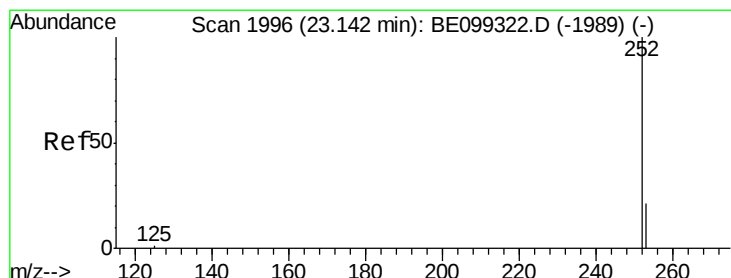
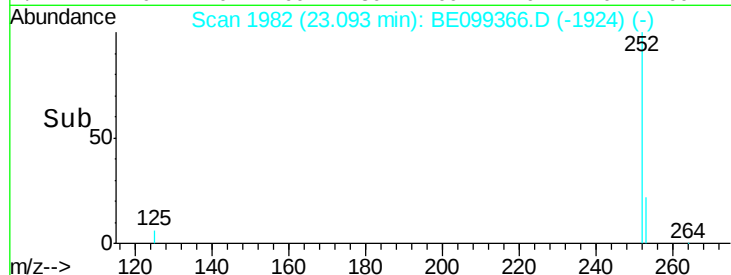
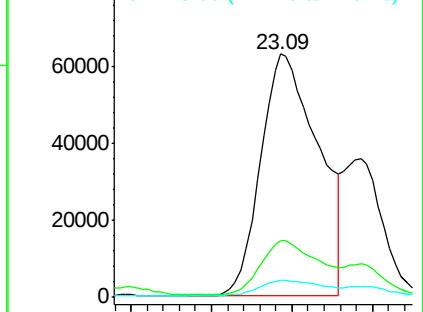
252 100

253 23.2 17.3 25.9

125 6.9 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: 1.157 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.04 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

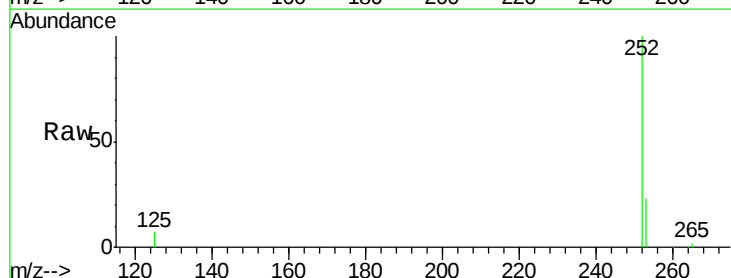
Tgt Ion:252 Resp: 157156

Ion Ratio Lower Upper

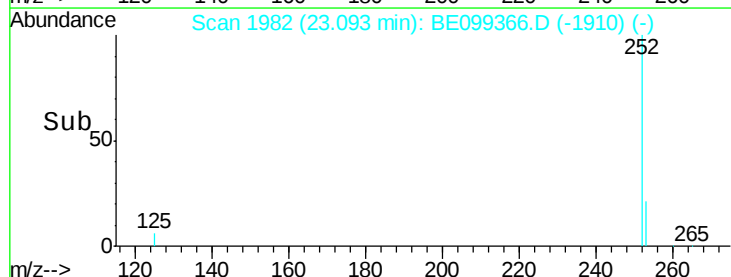
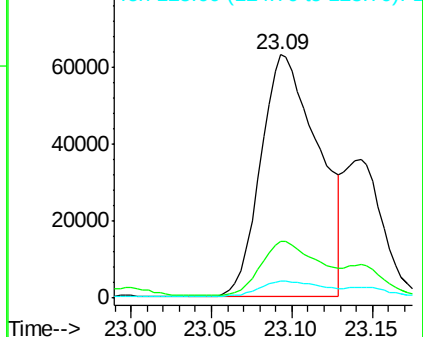
252 100

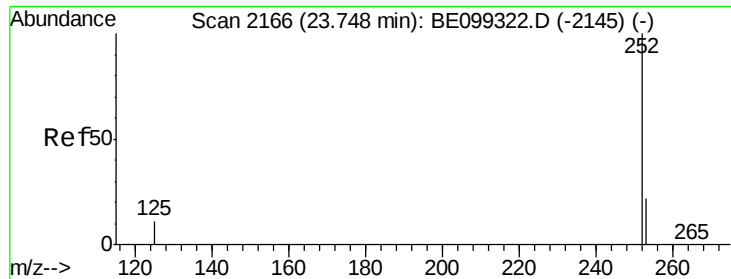
253 23.2 18.4 27.6

125 6.9 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: 0.890 ng

RT: 23.75 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :

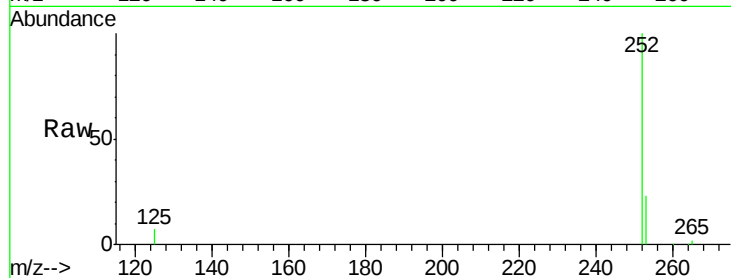
Tot Ion:252 Resp: 108620

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

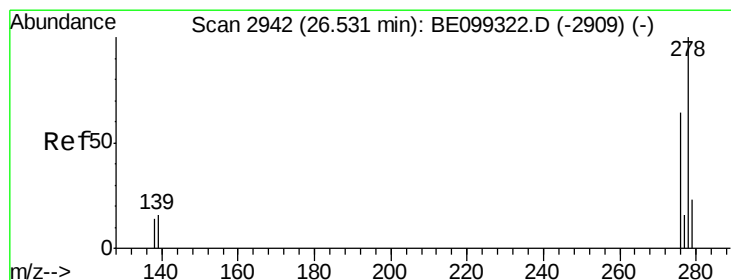
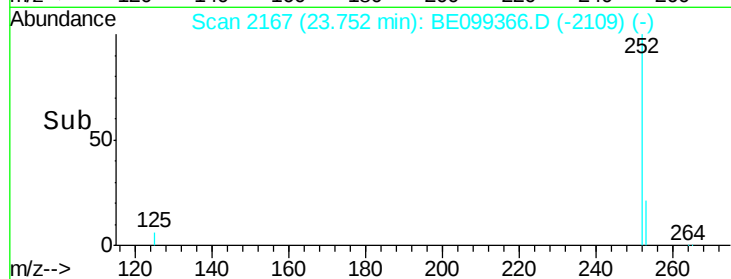
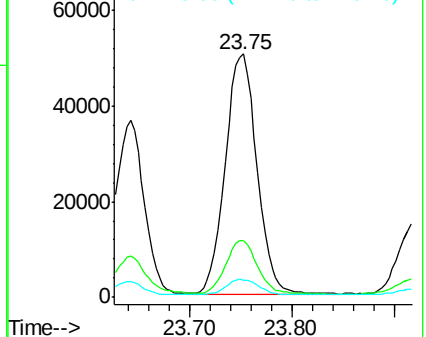
125 7.3 6.5 9.7



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: 0.128 ng

RT: 26.52 min Scan# 2940

Delta R.T. 0.00 min

Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

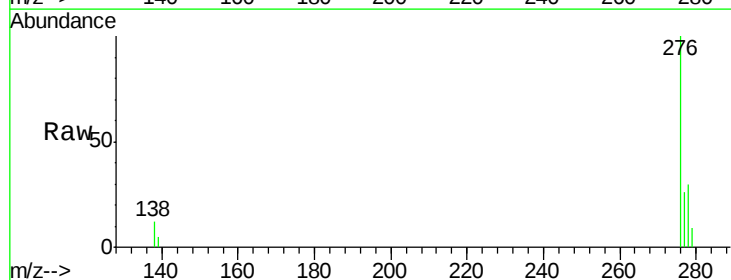
Tgt Ion:278 Resp: 15938

Ion Ratio Lower Upper

278 100

139 16.2 8.5 12.7#

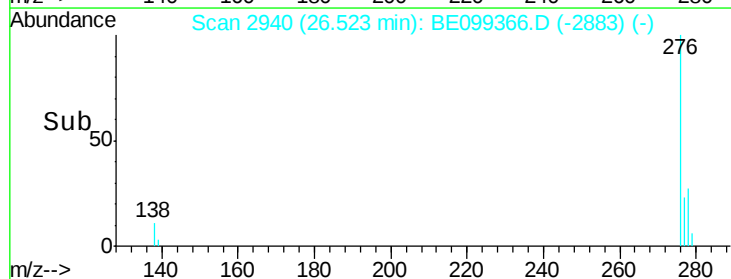
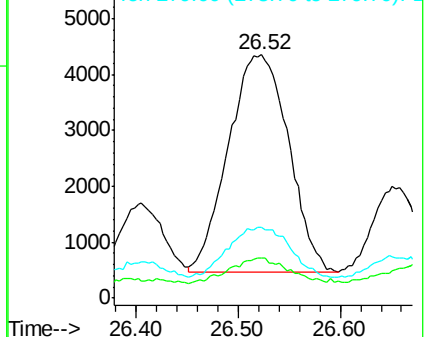
279 28.9 19.8 29.8

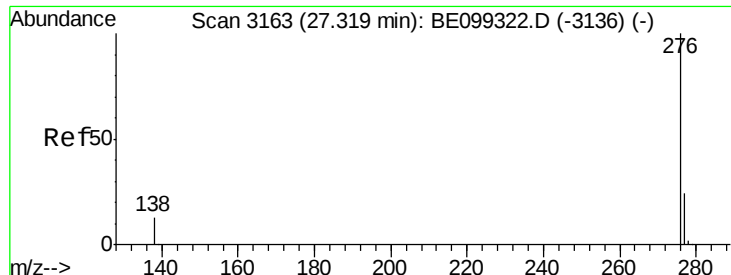


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.543 ng

RT: 27.32 min Scan# 3164

Delta R.T. 0.02 min

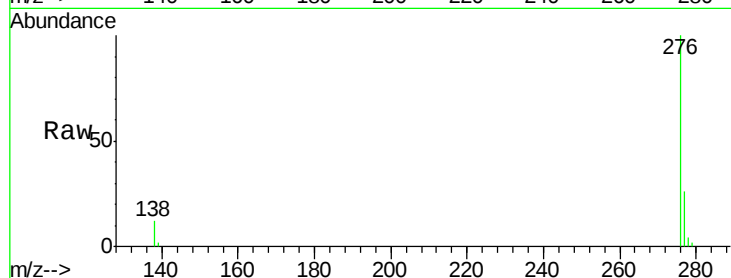
Lab File: BE099366.D

Acq: 25 Apr 2019 18:01

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 68715

Ion Ratio Lower Upper

276 100

277 25.8 20.0 30.0

138 11.9 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

