

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099395.D
 Acq On : 27 Apr 2019 1:56
 Operator : JU/SJ
 Sample : K2533-13
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-028-SW005-042219

Quant Time: Apr 27 05:09:50 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	3888	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	15714	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	10797	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29063	0.40	ng	0.01
27) Chrysene-d12	21.37	240	32044	0.40	ng	0.00
34) Perylene-d12	23.88	264	36870	0.40	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.40	112	4375	0.46	ng	0.01
5) Phenol-d6	6.98	99	6248	0.46	ng	0.00
8) Nitrobenzene-d5	8.98	82	5712	0.47	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	11035	0.40	ng	0.02
14) 2,4,6-Tribromophenol	15.94	330	2567	0.72	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	16055	0.38	ng	0.00
25) Fluoranthene-d10	19.22	212	131202	0.38	ng	0.00
29) Terphenyl-d14	19.82	244	21801	0.35	ng	0.00

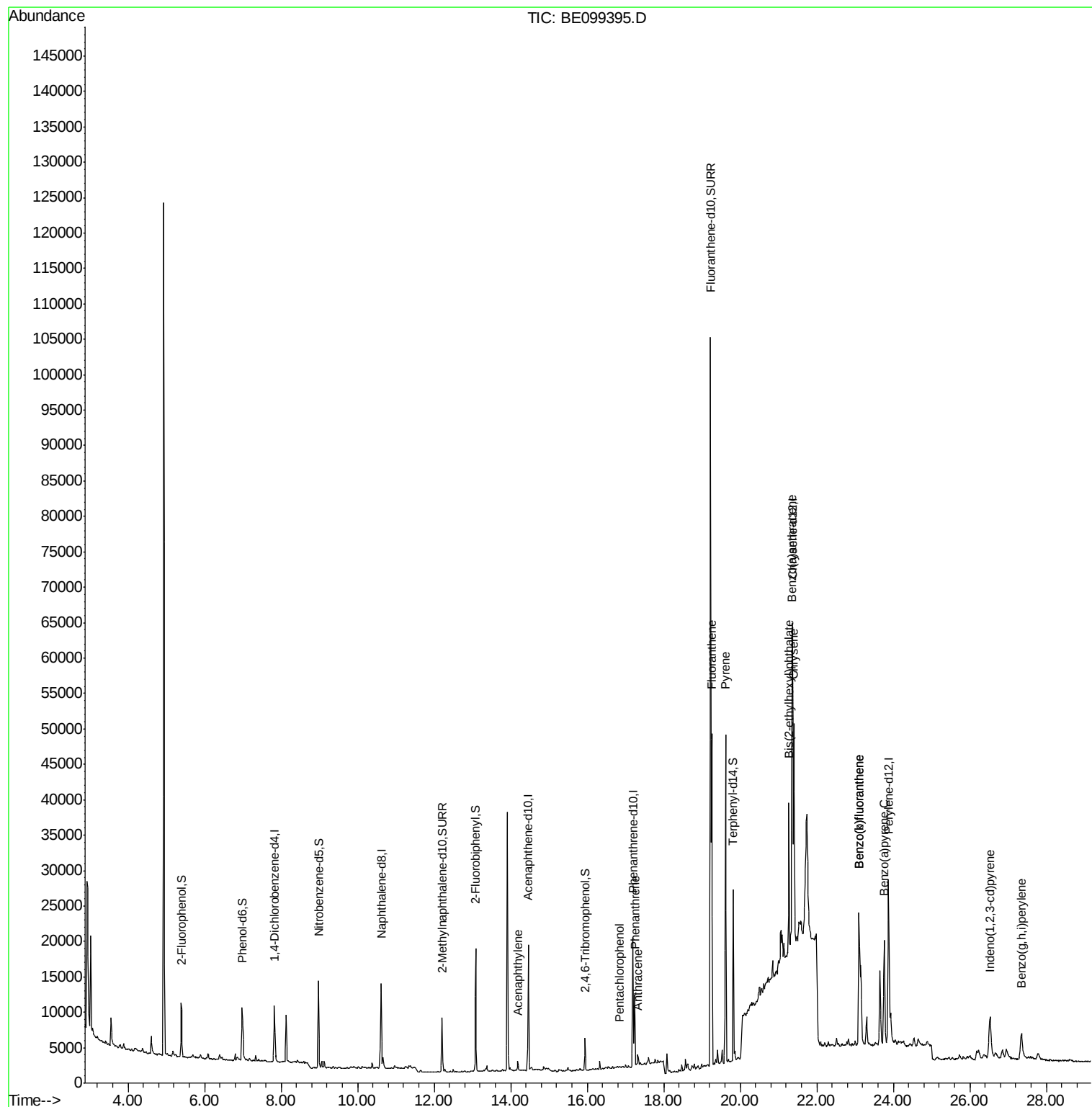
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acenaphthylene	14.18	152	1842	0.038	ng	# 97
22) Pentachlorophenol	16.84	266	50	0.228	ng	# 67
23) Phenanthrene	17.24	178	12297	0.160	ng	98
24) Anthracene	17.32	178	2003	0.029	ng	97
26) Fluoranthene	19.25	202	42909	0.417	ng	97
28) Pyrene	19.62	202	42198	0.447	ng	# 96
30) Benzo(a)anthracene	21.35	228	30032	0.319	ng	# 92
31) Chrysene	21.40	228	28557	0.285	ng	# 92
32) Bis(2-ethylhexyl)phthalate	21.27	149	22541	0.263	ng	100
33) Indeno(1,2,3-cd)pyrene	26.52	276	13800	0.139	ng	# 87
35) Benzo(b)fluoranthene	23.11	252	36575	0.324	ng	# 81
36) Benzo(k)fluoranthene	23.11	252	36575	0.325	ng	# 83
37) Benzo(a)pyrene	23.76	252	24236	0.240	ng	# 78
39) Benzo(g,h,i)perylene	27.35	276	12531	0.120	ng	# 77

(#) = 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: BE099395.D

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Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

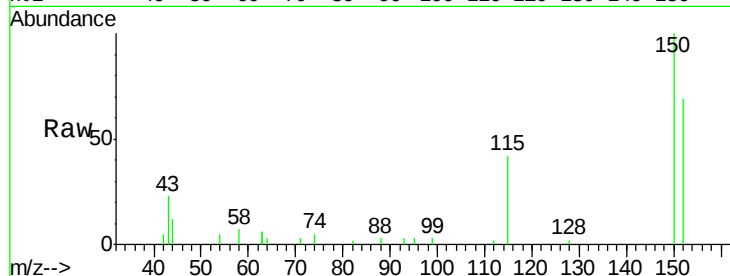
Tot Ion:152 Resp: 3888

Ion Ratio Lower Upper

152 100

150 144.4 119.5 179.3

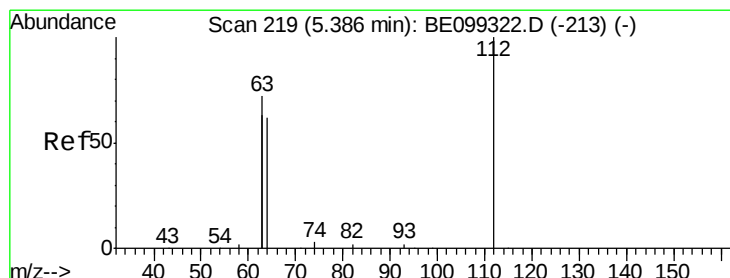
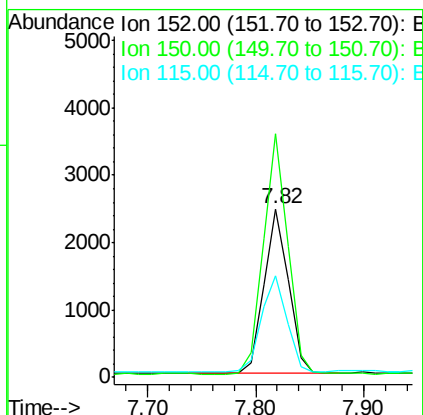
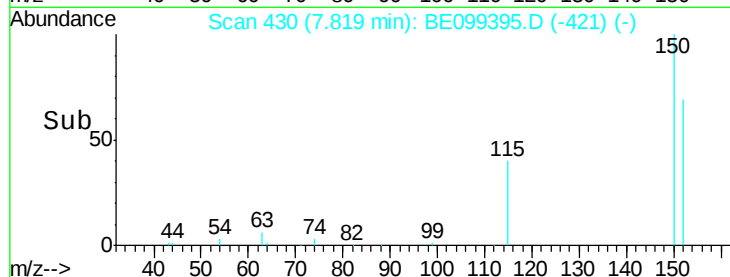
115 60.4 47.5 71.3



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



#4

2-Fluorophenol

Concen: 0.460 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

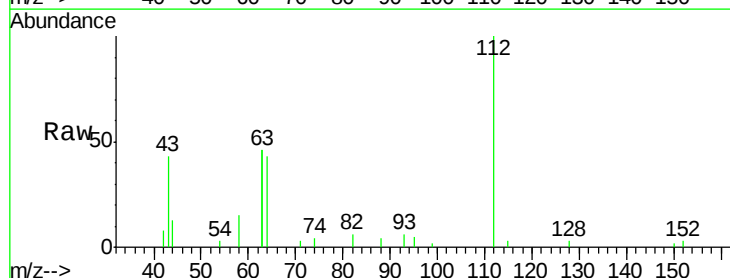
Tgt Ion:112 Resp: 4375

Ion Ratio Lower Upper

112 100

64 56.2 44.9 67.3

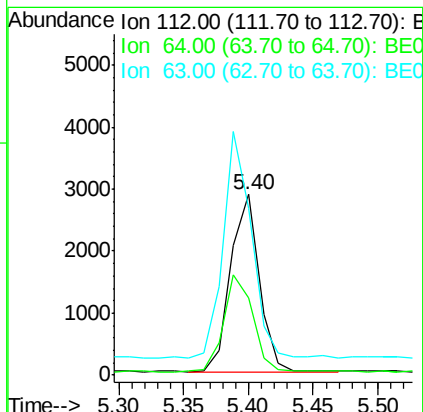
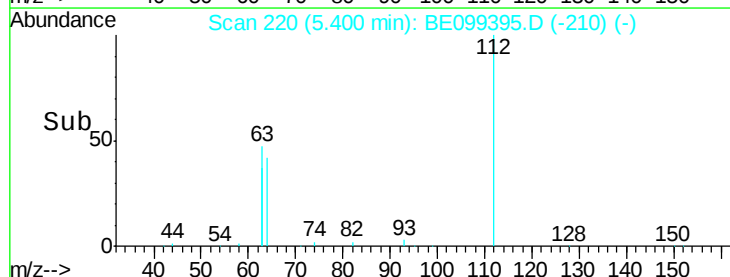
63 126.4 97.4 146.0

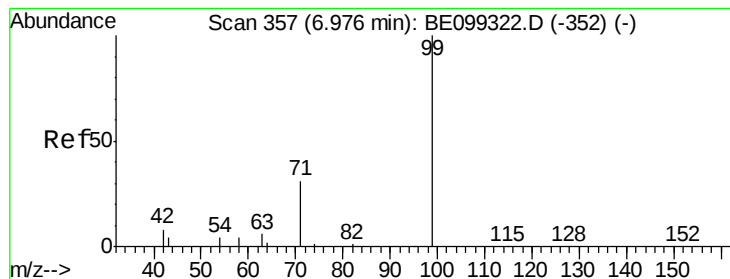


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.461 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

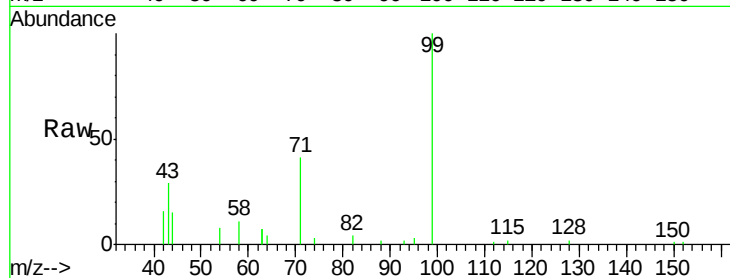
Tot Ion: 99 Resp: 6248

Ion Ratio Lower Upper

99 100

42 18.9 11.7 17.5#

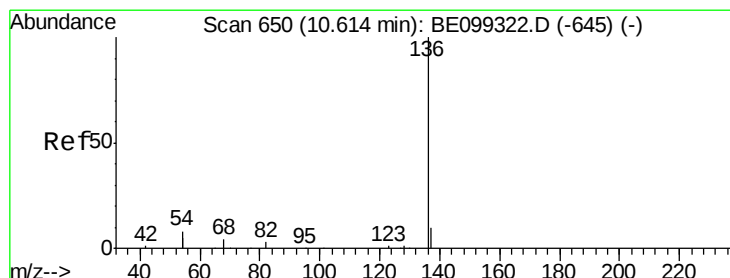
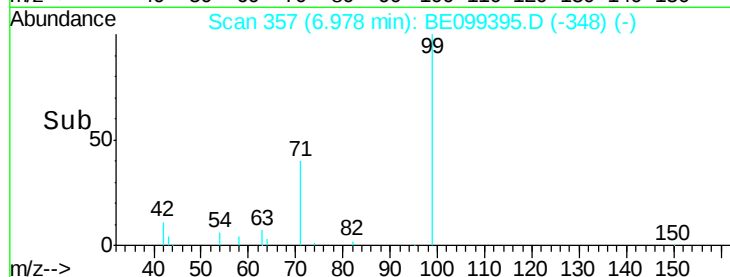
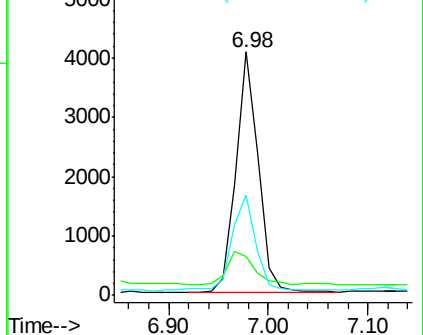
71 41.5 29.6 44.4



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: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Tgt Ion: 136 Resp: 15714

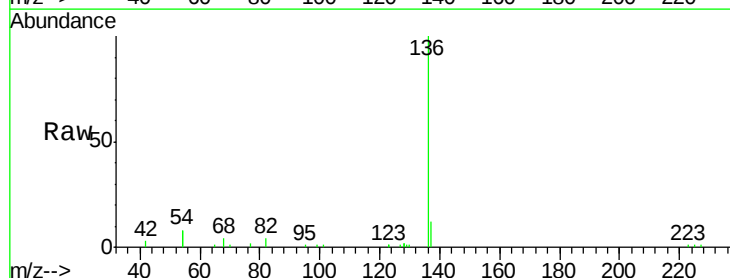
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 16.9 23.8 35.8#

68 4.3 6.4 9.6#

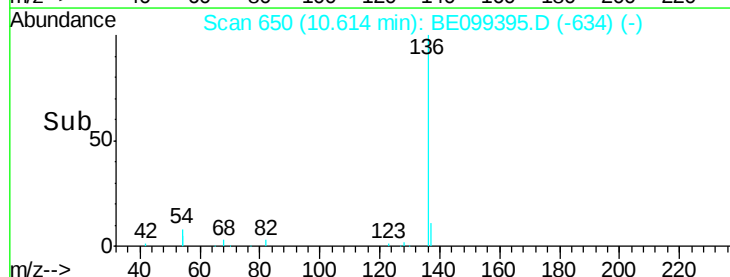
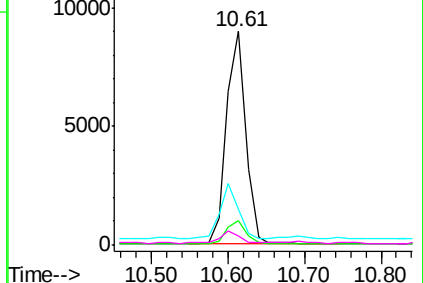


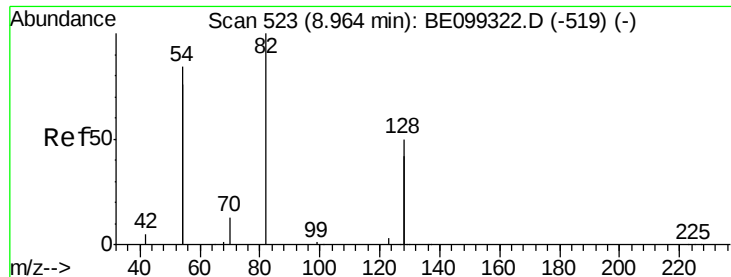
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.468 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

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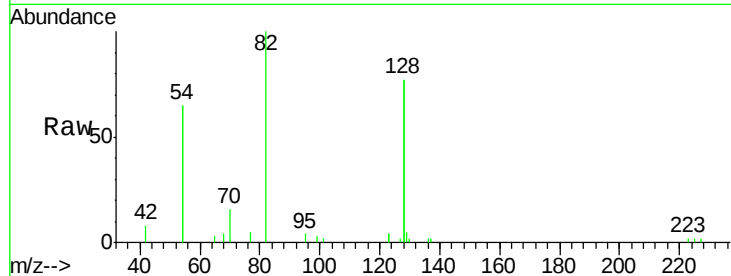
Tot Ion: 82 Resp: 5712

Ion Ratio Lower Upper

82 100

128 153.3 91.7 137.5#

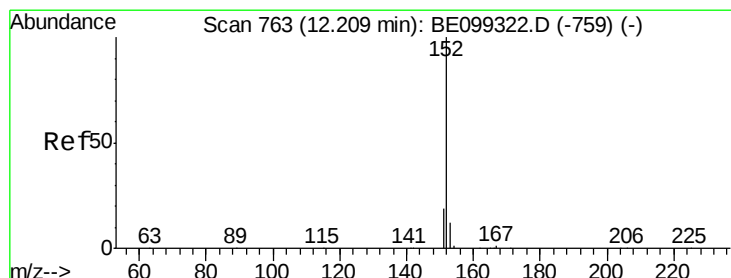
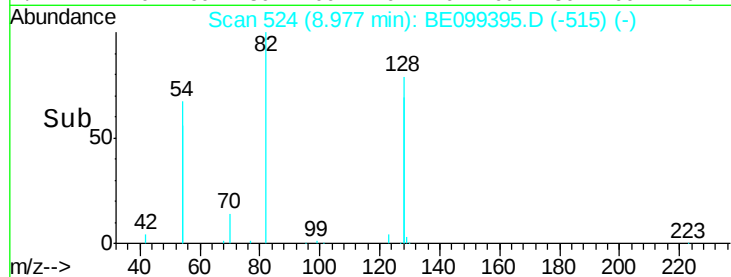
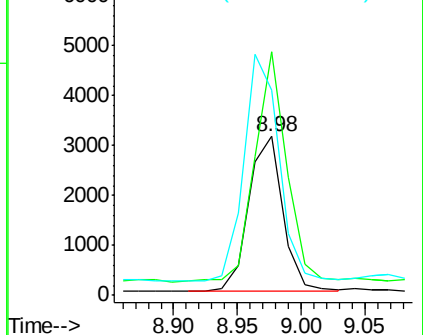
54 129.2 122.8 184.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.398 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.02 min

Lab File: BE099395.D

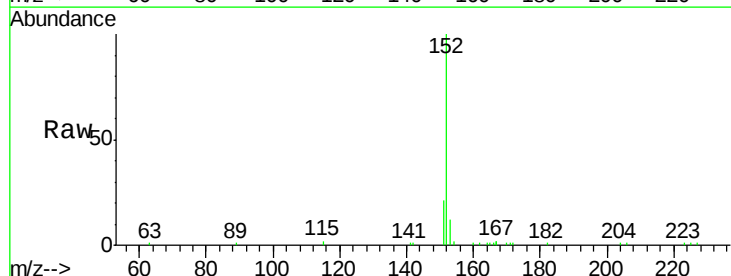
Acq: 27 Apr 2019 1:56

Tgt Ion: 152 Resp: 11035

Ion Ratio Lower Upper

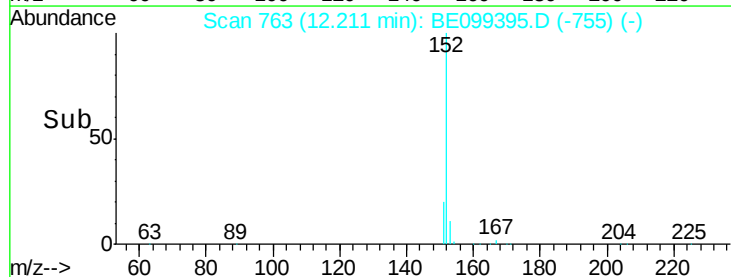
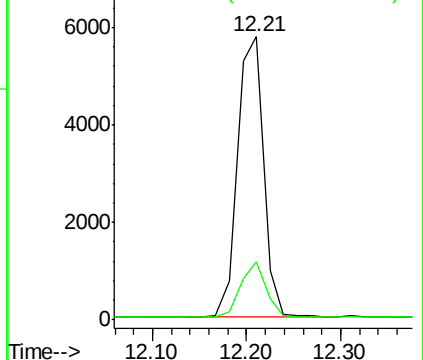
152 100

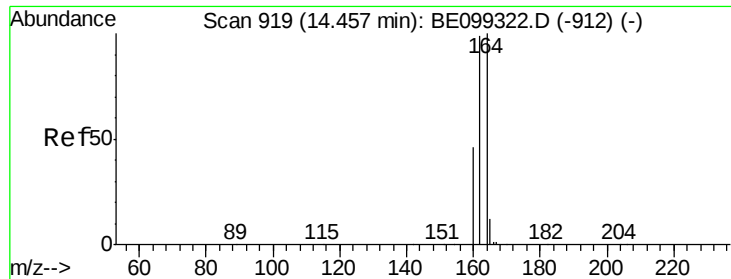
151 19.7 14.9 22.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

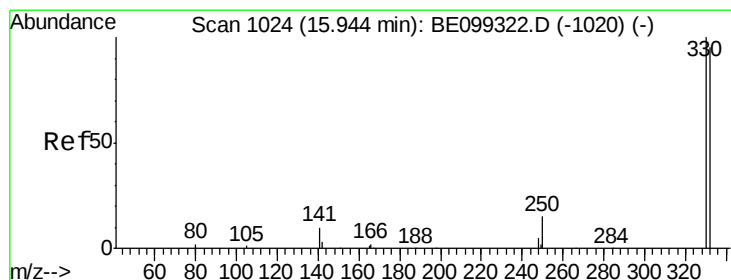
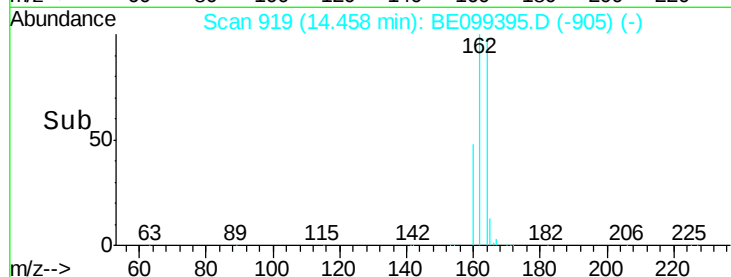
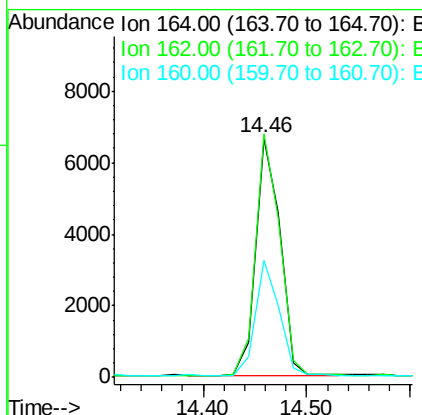
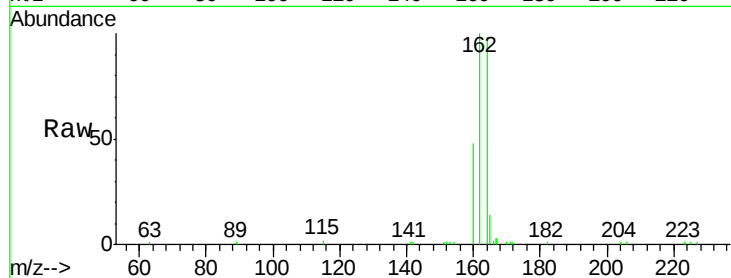




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099395.D
 Acq: 27 Apr 2019 1:56

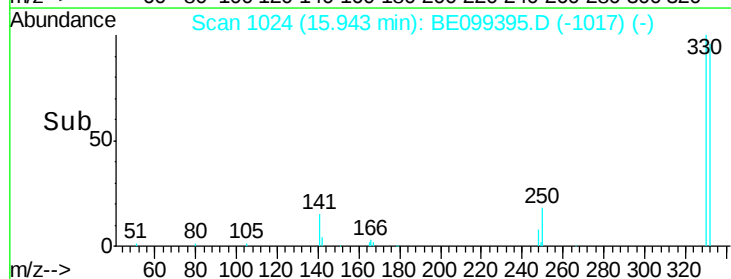
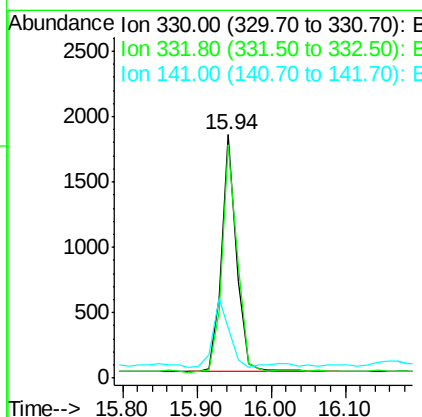
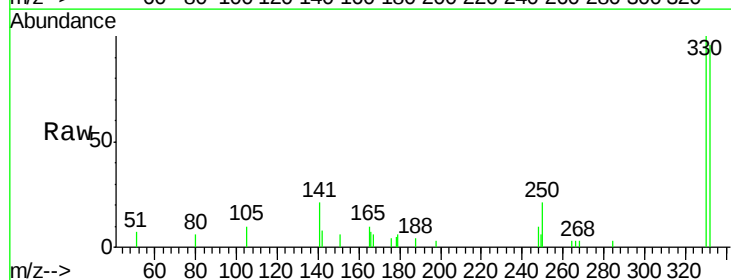
Instrument :
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 PST-028-SW005-042219

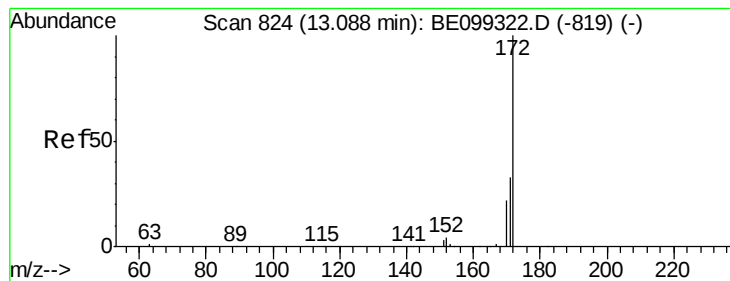
Tot Ion:164 Resp: 10797
 Ion Ratio Lower Upper
 164 100
 162 102.1 77.8 116.6
 160 49.1 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.716 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099395.D
 Acq: 27 Apr 2019 1:56

Tgt Ion:330 Resp: 2567
 Ion Ratio Lower Upper
 330 100
 332 98.9 82.5 123.7
 141 31.7 24.9 37.3





#15

2-Fluorobiphenyl

Concen: 0.378 ng

RT: 13.09 min Scan# 824

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

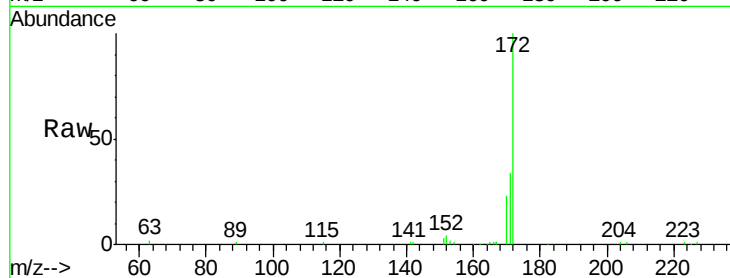
Tot Ion:172 Resp: 16055

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.2

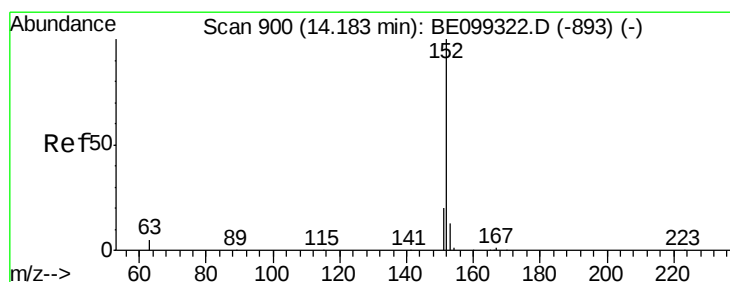
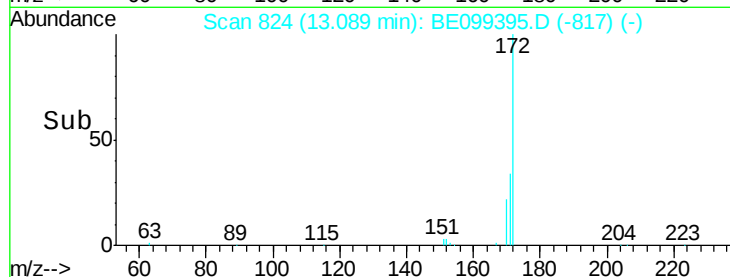
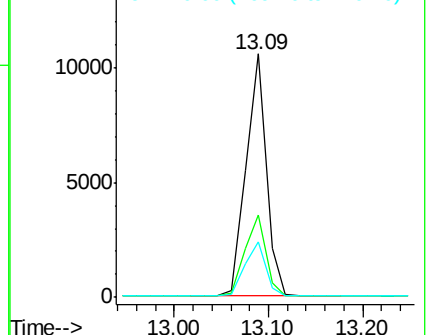
170 22.6 18.1 27.1



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.038 ng

RT: 14.18 min Scan# 900

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

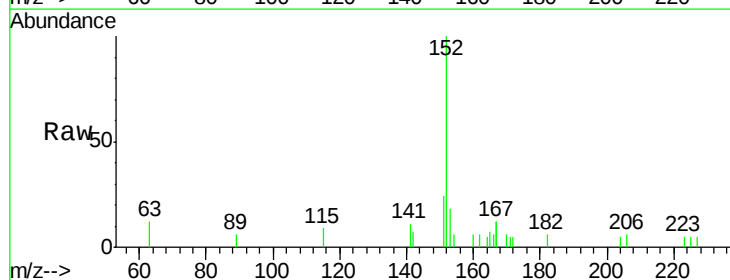
Tgt Ion:152 Resp: 1842

Ion Ratio Lower Upper

152 100

151 18.9 15.5 23.3

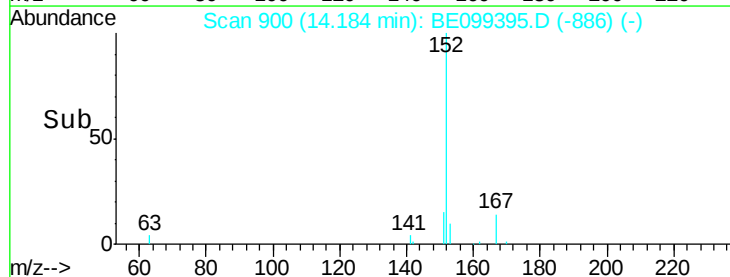
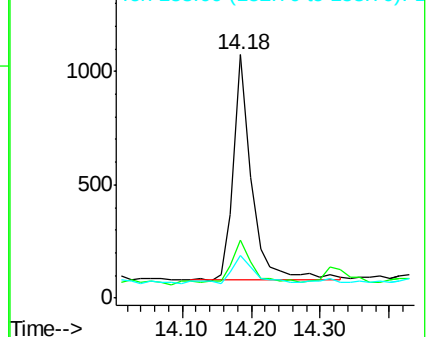
153 15.6 10.2 15.4#

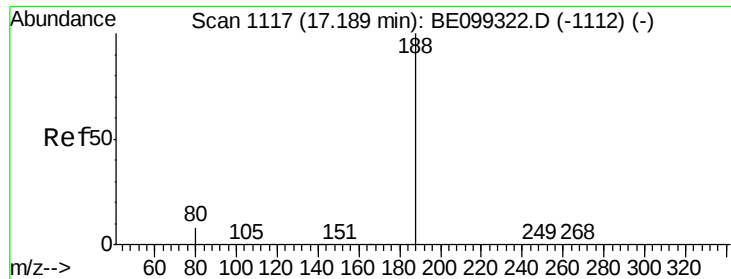


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

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PST-028-SW005-042219

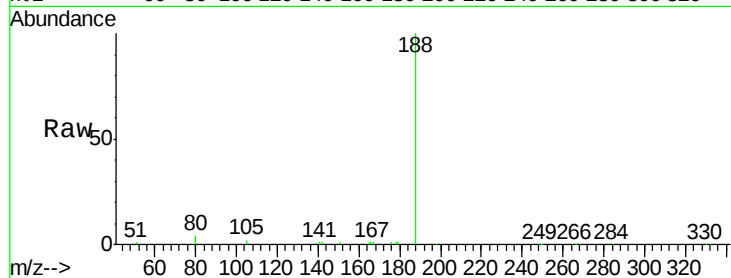
Tot Ion:188 Resp: 29063

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

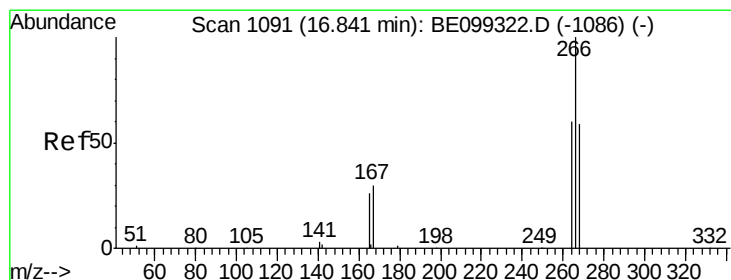
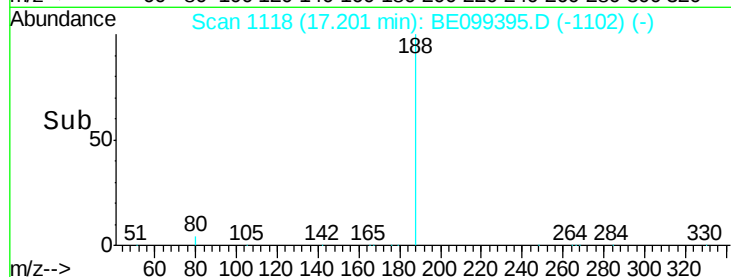
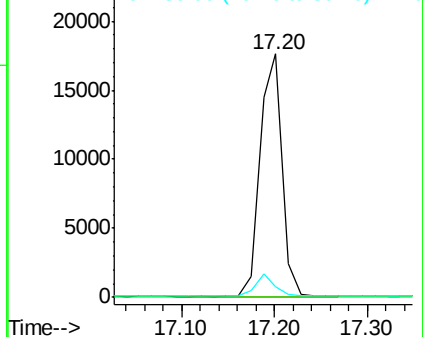
80 4.2 6.2 9.4#



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: 0.228 ng

RT: 16.84 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

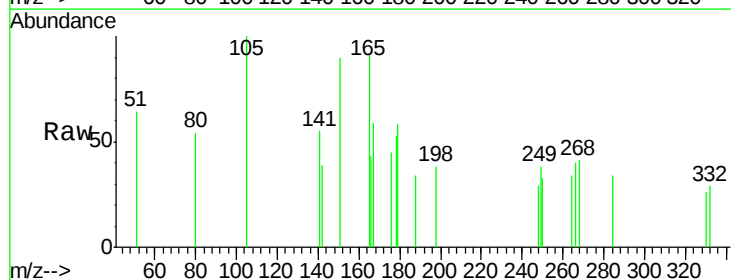
Tgt Ion:266 Resp: 50

Ion Ratio Lower Upper

266 100

264 86.4 54.5 81.7#

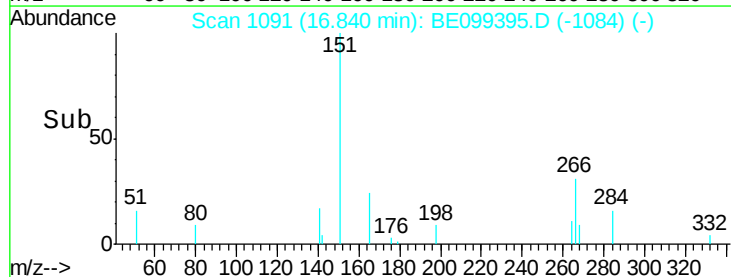
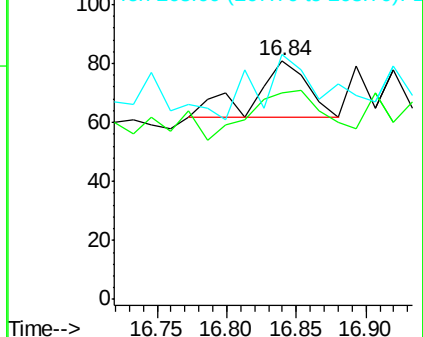
268 102.5 54.3 81.5#

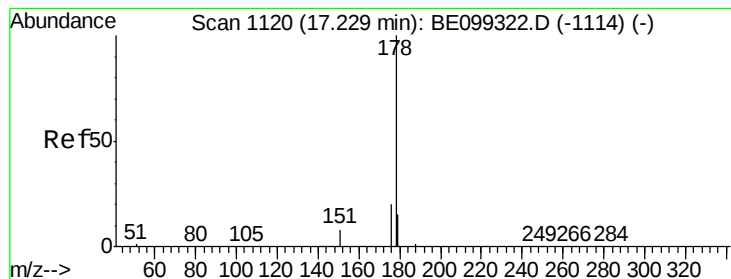


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.160 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

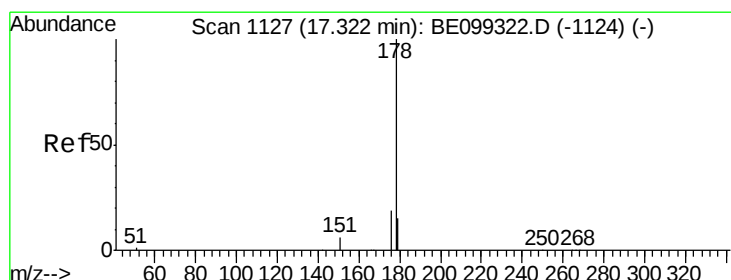
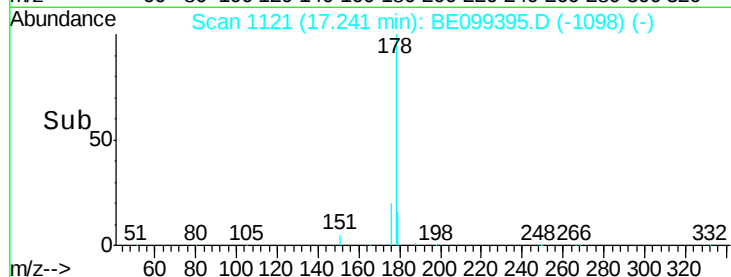
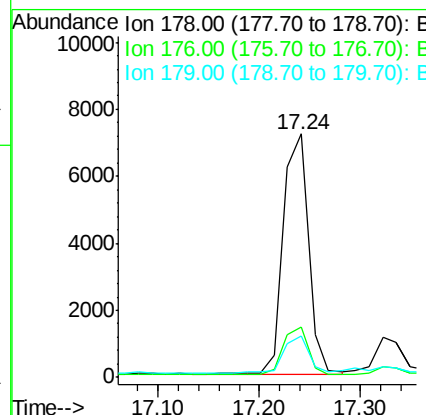
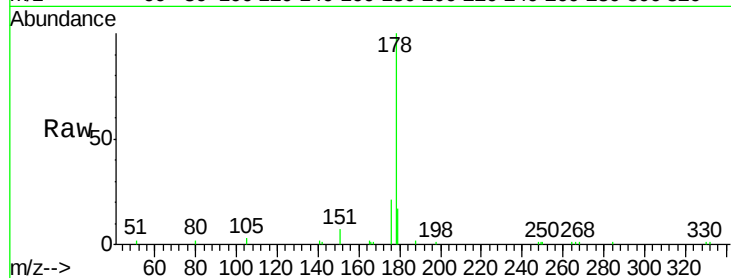
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PST-028-SW005-042219

Tot Ion:178 Resp: 12297

Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.3	22.9
179	16.2	12.4	18.6



#24

Anthracene

Concen: 0.029 ng

RT: 17.32 min Scan# 1127

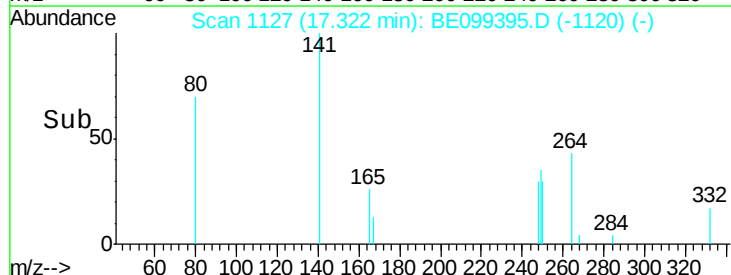
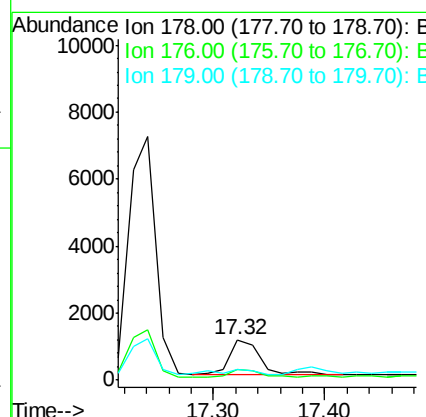
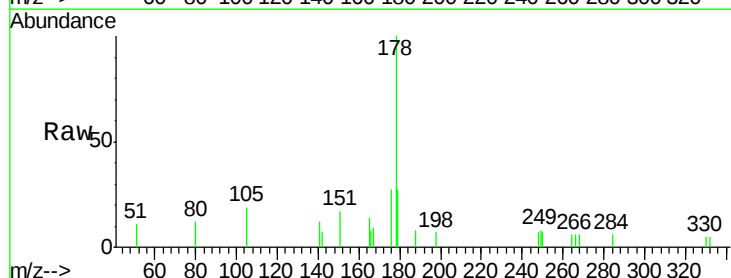
Delta R.T. -0.00 min

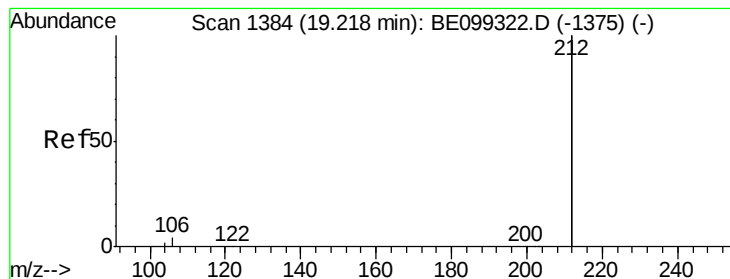
Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Tgt Ion:178 Resp: 2003

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.1	22.7
179	17.1	11.9	17.9





#25

Fluoranthene-d10

Concen: 0.376 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

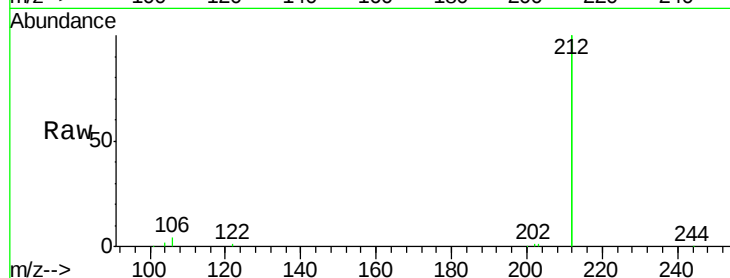
Tot Ion:212 Resp: 131202

Ion Ratio Lower Upper

212 100

106 1.9 1.8 2.6

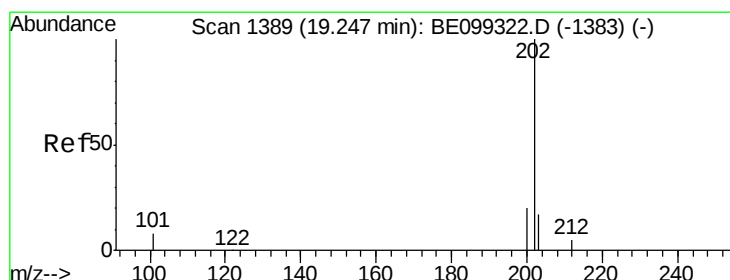
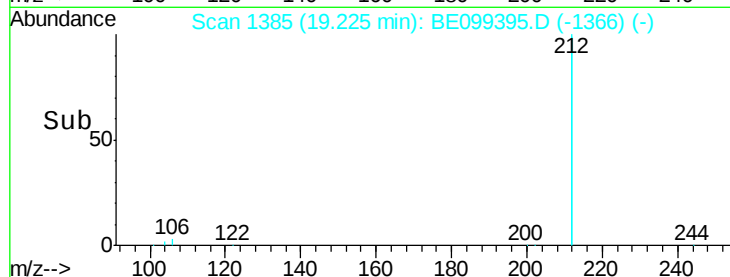
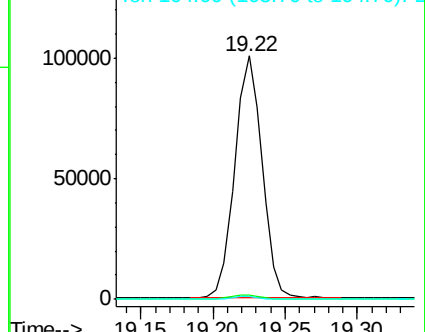
104 1.1 1.0 1.4



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: 0.417 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

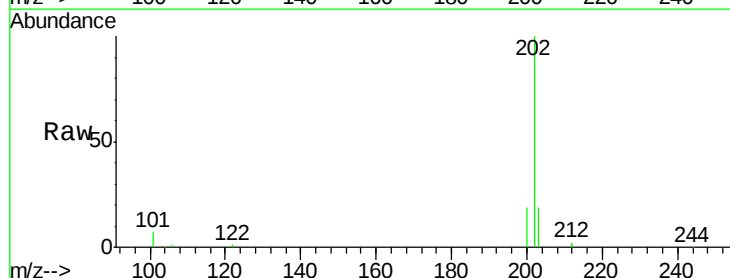
Tgt Ion:202 Resp: 42909

Ion Ratio Lower Upper

202 100

101 6.6 6.4 9.6

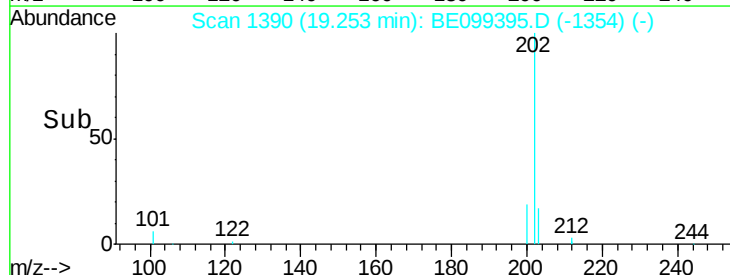
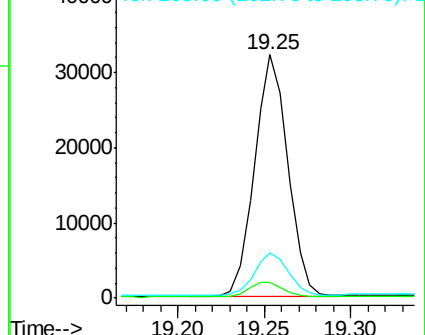
203 17.9 13.5 20.3

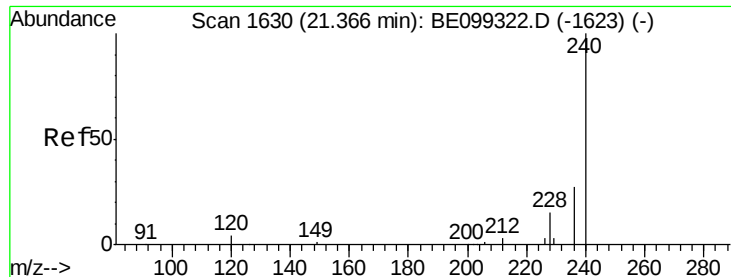


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

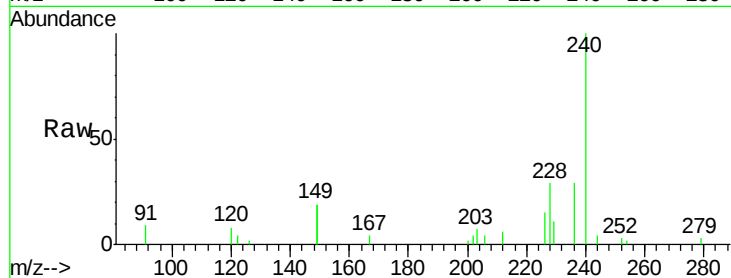
Tot Ion:240 Resp: 32044

Ion Ratio Lower Upper

240 100

120 8.5 2.2 3.2#

236 29.2 20.2 30.4



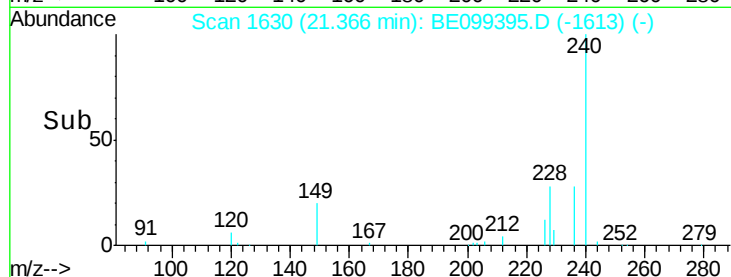
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

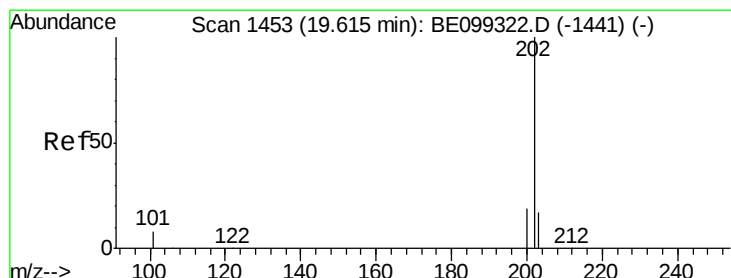
21.37

Time-->



21.37

Time-->



#28

Pyrene

Concen: 0.447 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

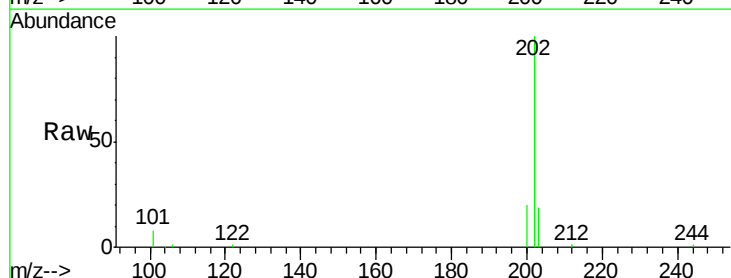
Tgt Ion:202 Resp: 42198

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

203 21.0 13.7 20.5#



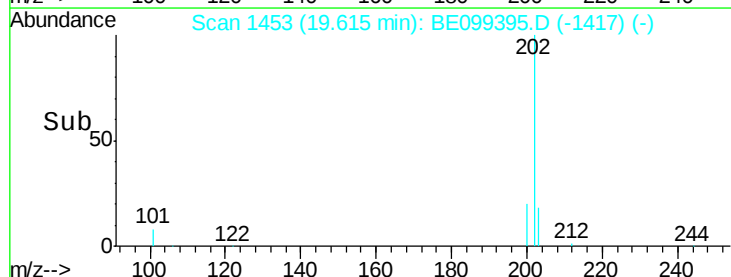
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

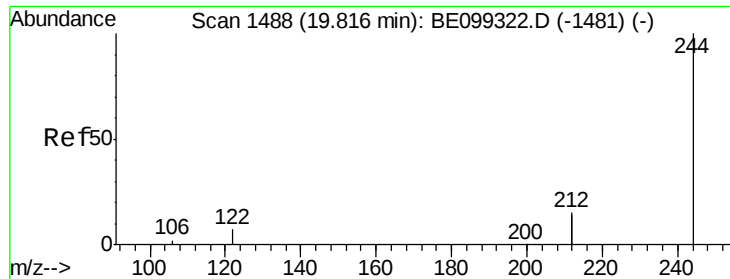
19.62

Time-->



19.62

Time-->



#29

Terphenyl-d14

Concen: 0.346 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

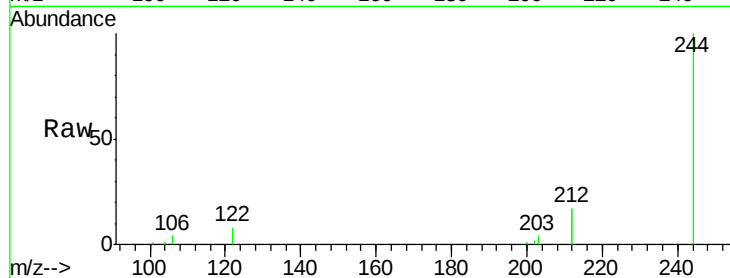
Tot Ion:244 Resp: 21801

Ion Ratio Lower Upper

244 100

212 33.7 22.6 33.8

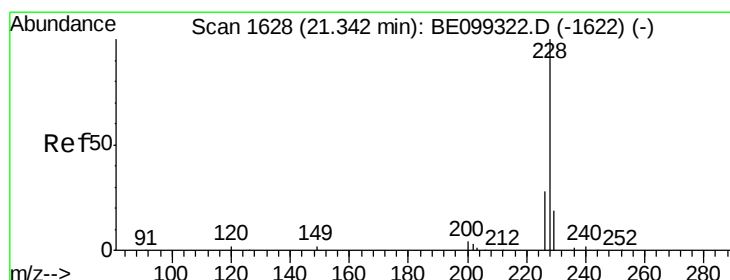
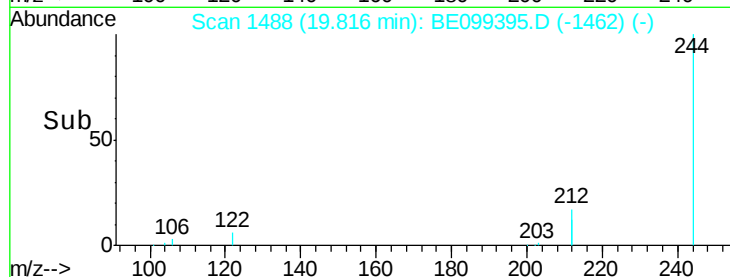
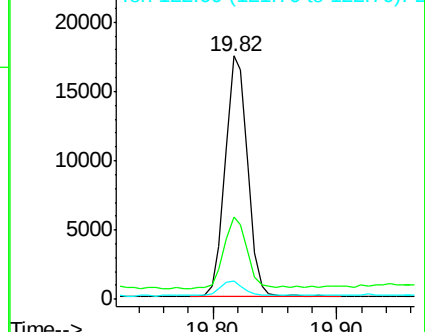
122 7.7 4.6 7.0#



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: 0.319 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

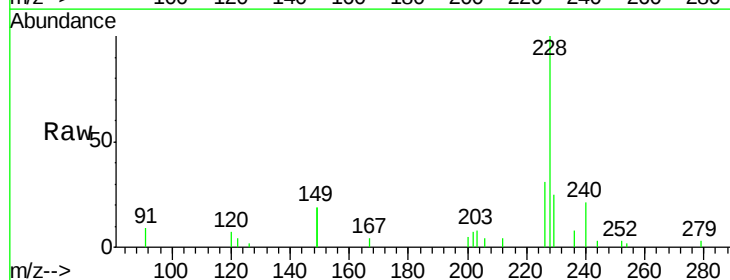
Tgt Ion:228 Resp: 30032

Ion Ratio Lower Upper

228 100

226 30.9 22.0 33.0

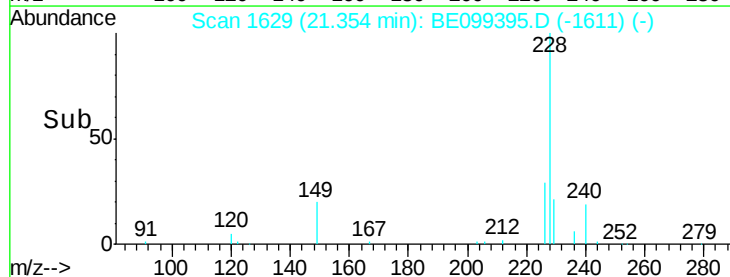
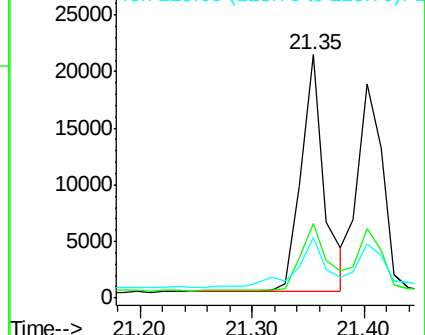
229 24.7 15.8 23.8#

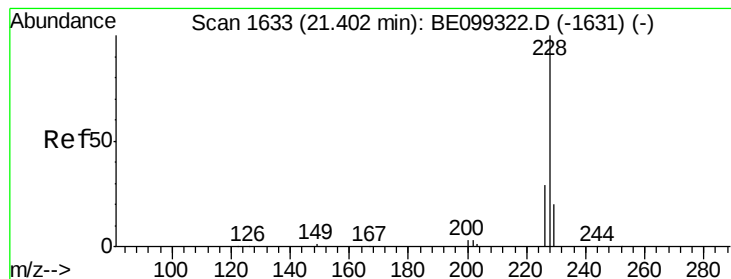


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.285 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

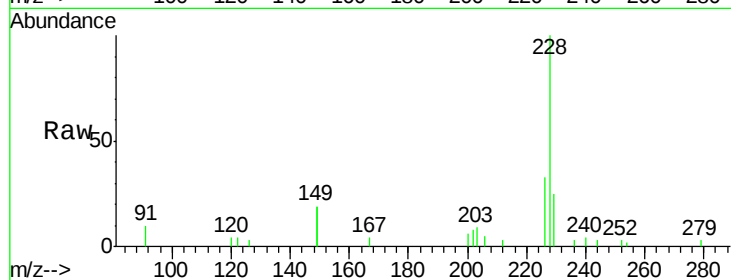
Tot Ion:228 Resp: 28557

Ion Ratio Lower Upper

228 100

226 32.5 23.4 35.2

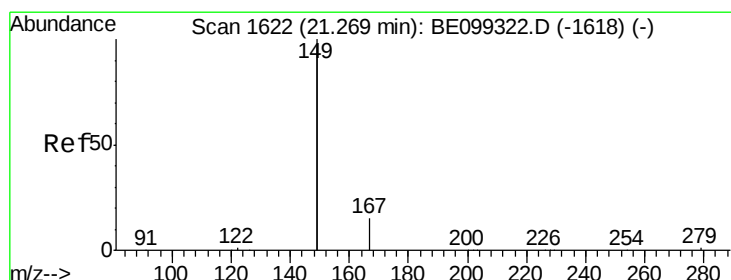
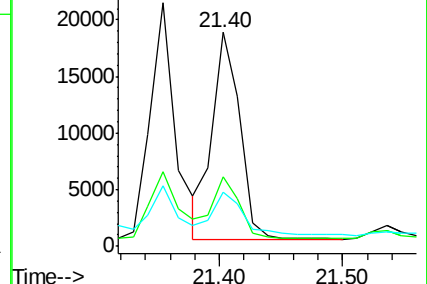
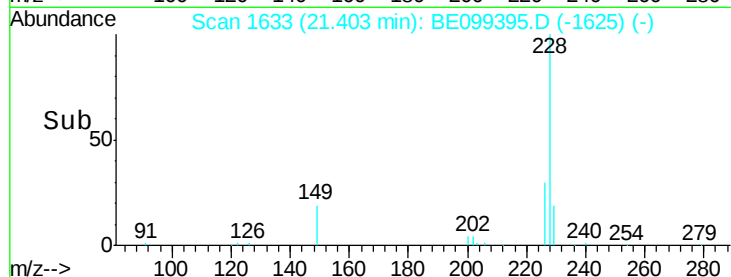
229 25.2 16.2 24.2#



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: 0.263 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

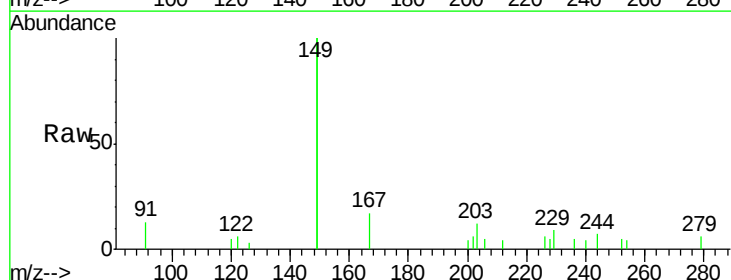
Tgt Ion:149 Resp: 22541

Ion Ratio Lower Upper

149 100

167 7.5 6.0 9.0

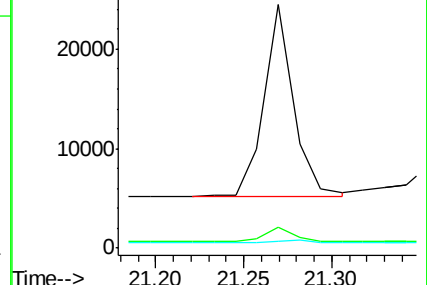
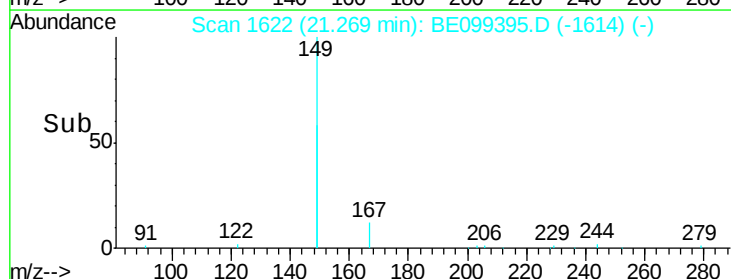
279 1.4 1.1 1.7

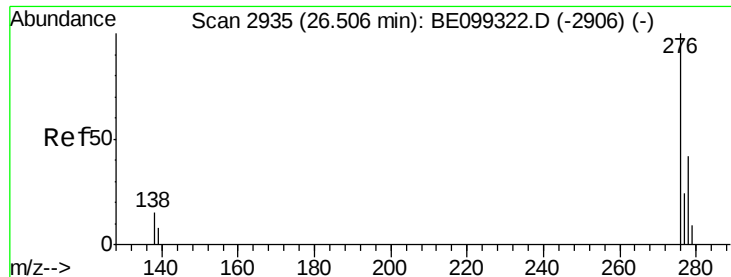


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.139 ng

RT: 26.52 min Scan# 2940

Delta R.T. 0.03 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

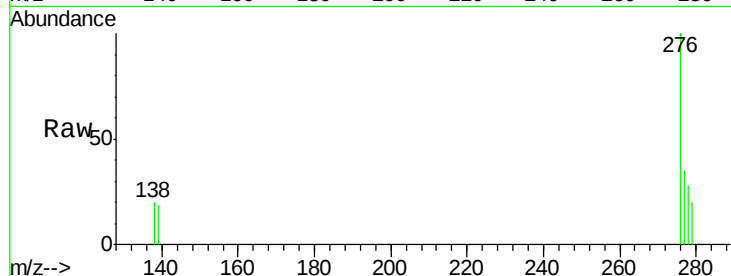
Tot Ion:276 Resp: 13800

Ion Ratio Lower Upper

276 100

138 3.9 12.7 19.1#

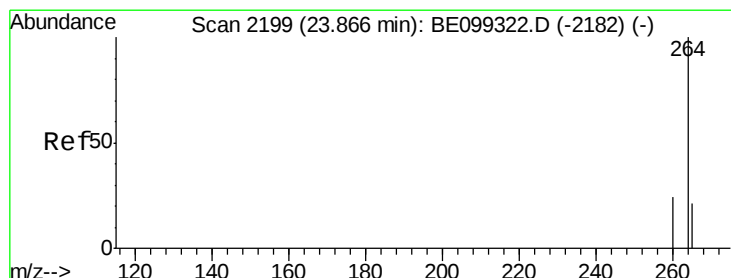
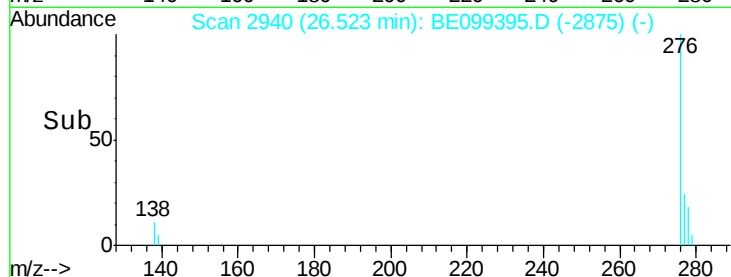
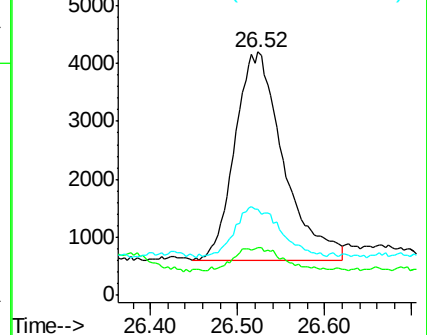
277 23.3 19.6 29.4



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.88 min Scan# 2202

Delta R.T. 0.02 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

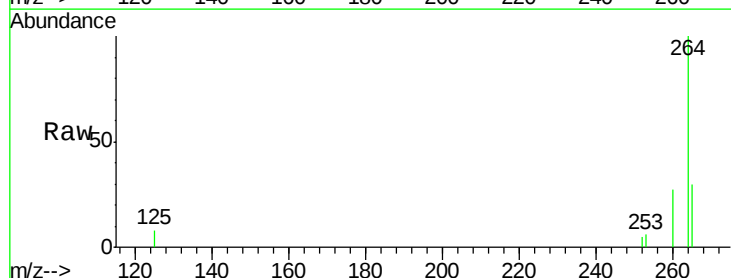
Tgt Ion:264 Resp: 36870

Ion Ratio Lower Upper

264 100

260 27.1 20.1 30.1

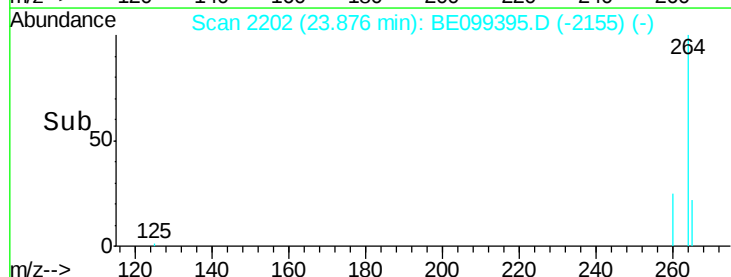
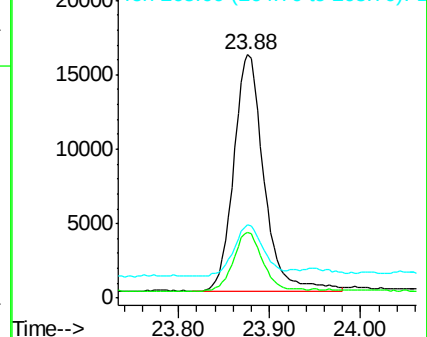
265 30.1 19.9 29.9#

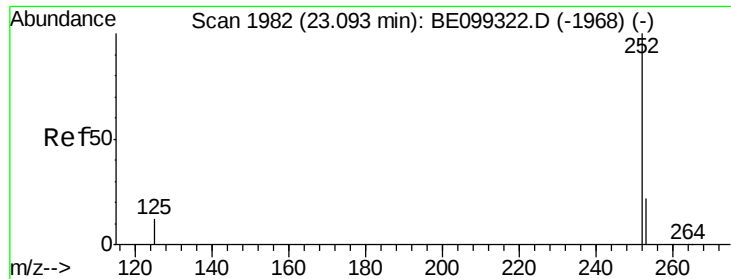


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.324 ng

RT: 23.11 min Scan# 1986

Delta R.T. 0.02 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

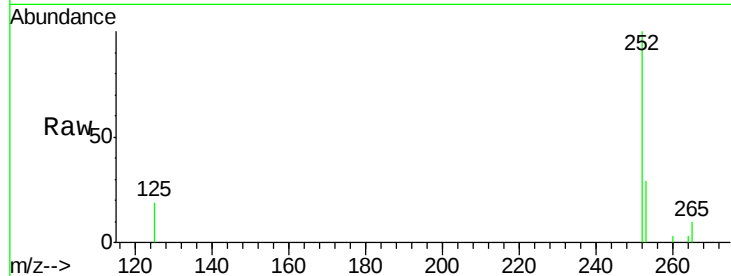
Tot Ion:252 Resp: 36575

Ion Ratio Lower Upper

252 100

253 28.7 17.3 25.9#

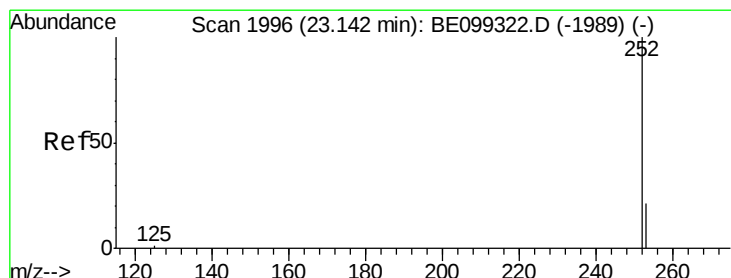
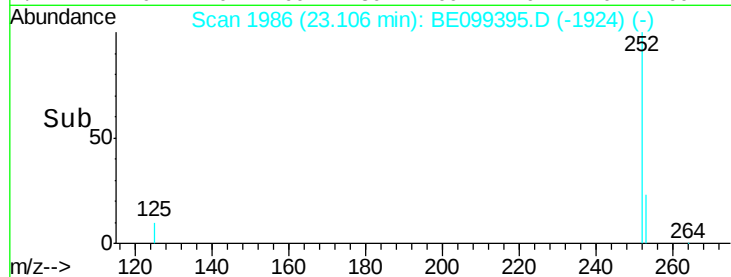
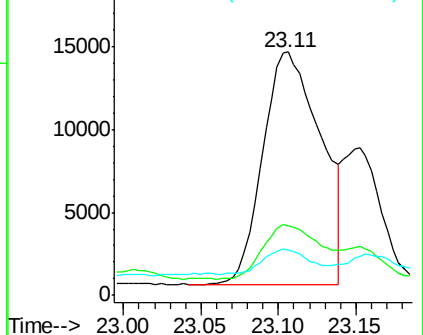
125 18.7 5.8 8.6#



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: 0.325 ng

RT: 23.11 min Scan# 1986

Delta R.T. -0.03 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

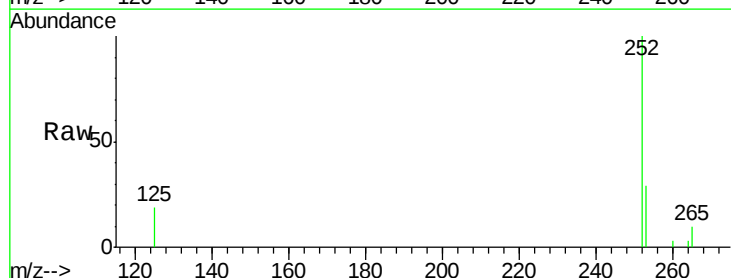
Tgt Ion:252 Resp: 36575

Ion Ratio Lower Upper

252 100

253 28.7 18.4 27.6#

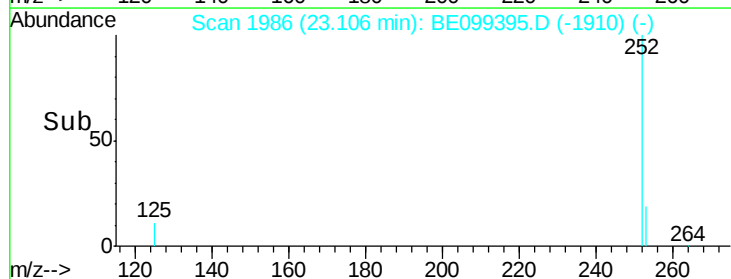
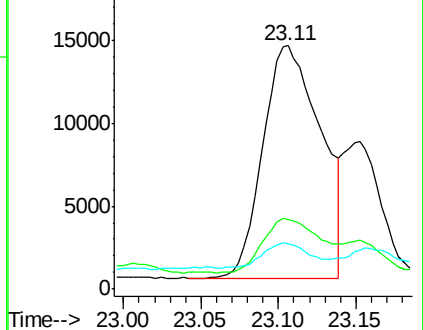
125 18.7 5.4 8.0#

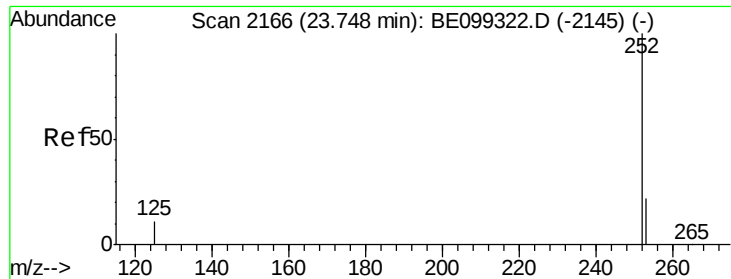


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.240 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.01 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

Instrument :

BNA_E

ClientSampleId :

PST-028-SW005-042219

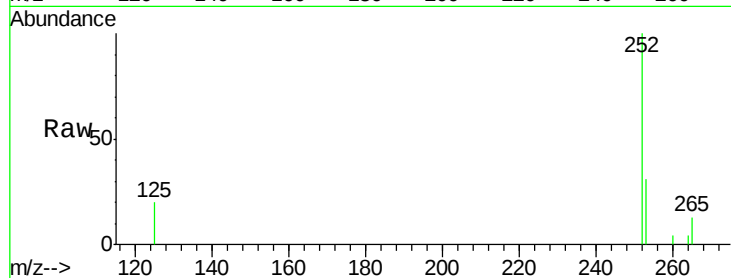
Tot Ion:252 Resp: 24236

Ion Ratio Lower Upper

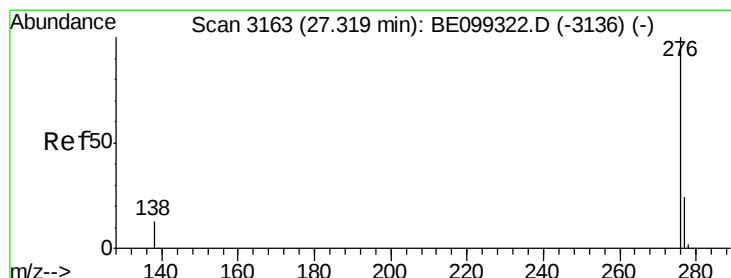
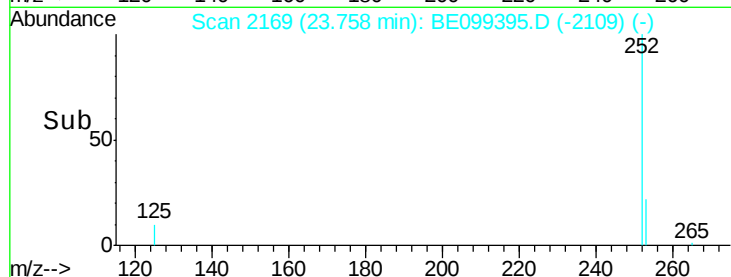
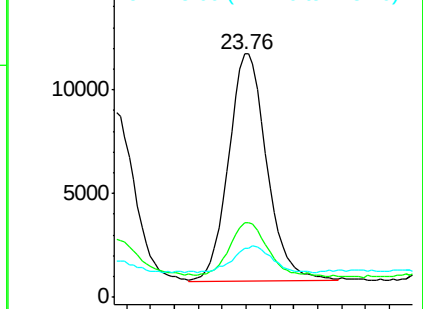
252 100

253 30.7 17.6 26.4#

125 20.0 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



#39

Benzo(g,h,i)perylene

Concen: 0.120 ng

RT: 27.35 min Scan# 3171

Delta R.T. 0.04 min

Lab File: BE099395.D

Acq: 27 Apr 2019 1:56

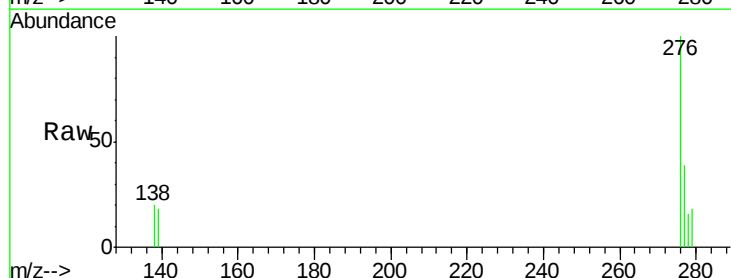
Tgt Ion:276 Resp: 12531

Ion Ratio Lower Upper

276 100

277 38.7 20.0 30.0#

138 20.4 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

