

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099519.D
 Acq On : 3 May 2019 7:19
 Operator : JU/SJ
 Sample : K2589-12
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B191-042419

Quant Time: May 03 08:47:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	1980	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	7387	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5854	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19529	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24138	0.40	ng	0.00
34) Perylene-d12	23.87	264	27911	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	1758	0.32	ng	0.00
5) Phenol-d6	6.98	99	2465	0.34	ng	0.00
8) Nitrobenzene-d5	8.96	82	2020	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	3716	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1422	0.39	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	5445	0.24	ng	0.00
25) Fluoranthene-d10	19.22	212	61312	0.23	ng	0.00
29) Terphenyl-d14	19.82	244	12059	0.27	ng	0.00

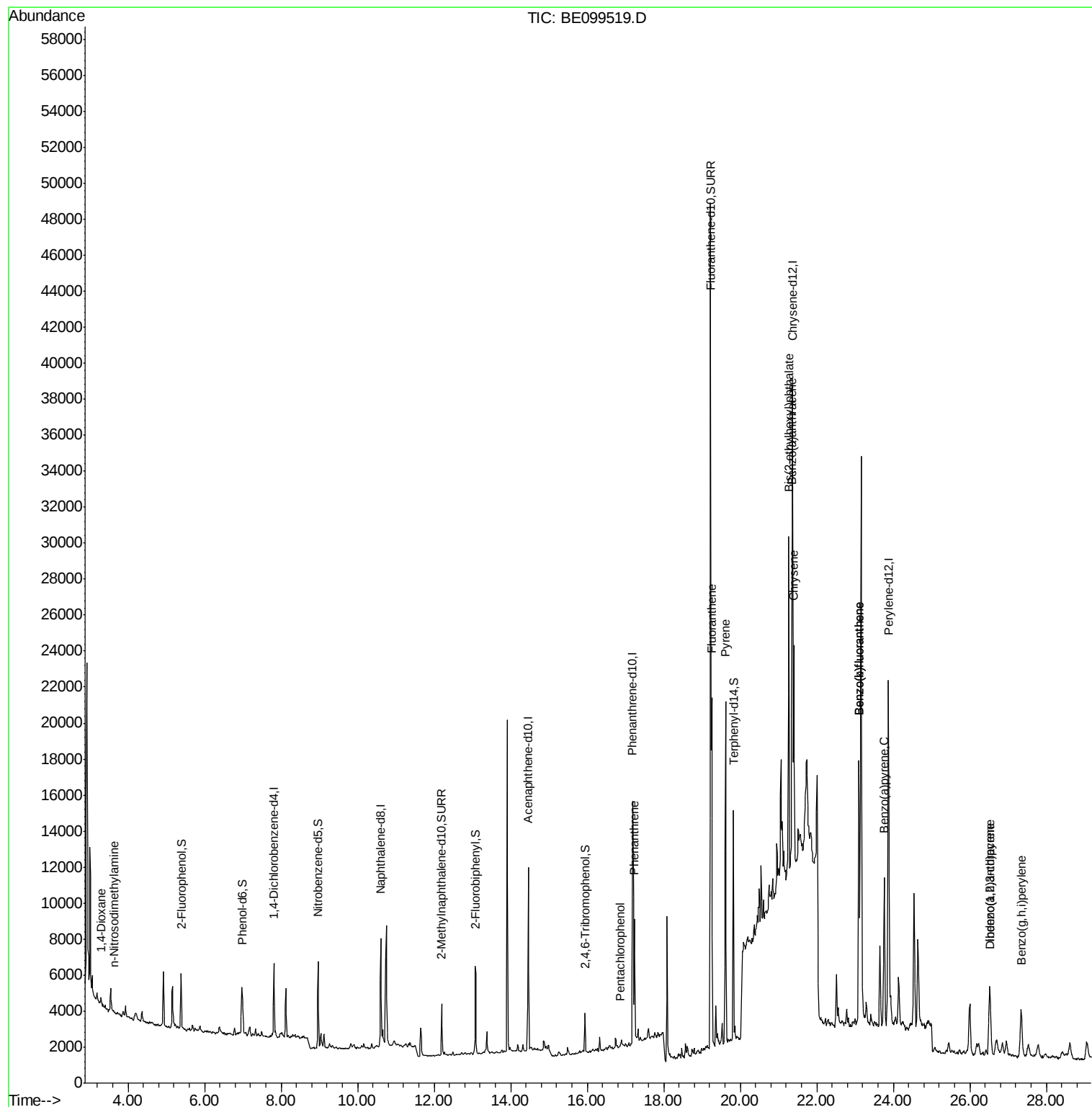
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.29	88	93	0.034	ng	# 1
3) n-Nitrosodimethylamine	3.62	42	38	0.023	ng	# 1
22) Pentachlorophenol	16.85	266	37	0.222	ng	# 66
23) Phenanthrene	17.23	178	7583	0.150	ng	# 98
26) Fluoranthene	19.25	202	18113	0.240	ng	# 98
28) Pyrene	19.62	202	17829	0.283	ng	# 96
30) Benzo(a)anthracene	21.36	228	9622	0.125	ng	# 83
31) Chrysene	21.40	228	11855	0.158	ng	# 89
32) Bis(2-ethylhexyl)phthalate	21.27	149	22782	0.138	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.52	276	7143	0.080	ng	# 95
35) Benzo(b)fluoranthene	23.10	252	14754	0.183	ng	# 1
36) Benzo(k)fluoranthene	23.10	252	14754	0.190	ng	# 1
37) Benzo(a)pyrene	23.76	252	9645	0.127	ng	# 41
38) Dibenzo(a,h)anthracene	26.54	278	1851	0.024	ng	# 1
39) Benzo(a,h,i)perylene	27.34	276	7211	0.092	ng	# 83

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

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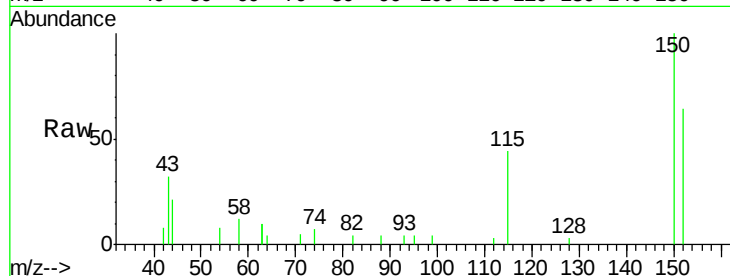
Tot Ion:152 Resp: 1980

Ion Ratio Lower Upper

152 100

150 155.5 104.8 157.2

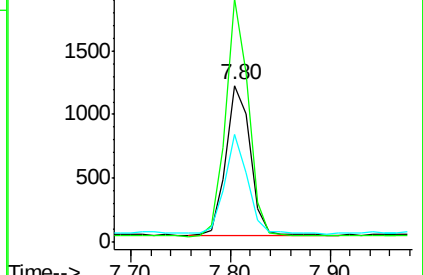
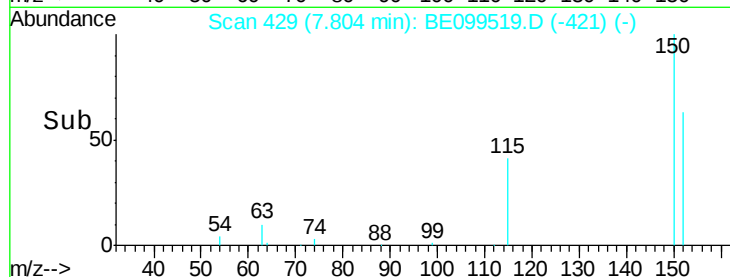
115 68.7 46.6 69.8



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: 0.034 ng

RT: 3.29 min Scan# 37

Delta R.T. -0.02 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

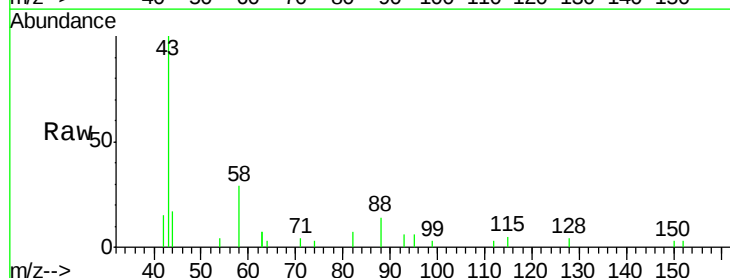
Tgt Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

58 76.3 51.0 76.6

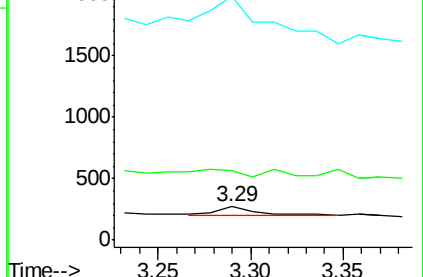
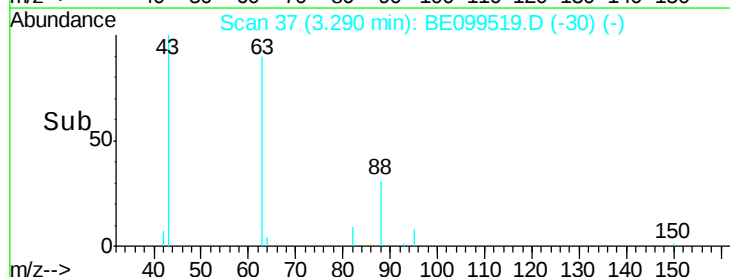
43 1179.6 20.6 30.8#



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



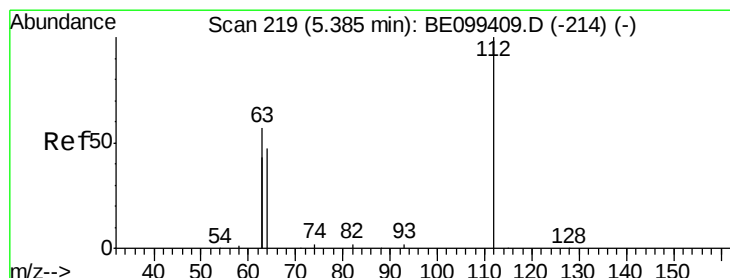
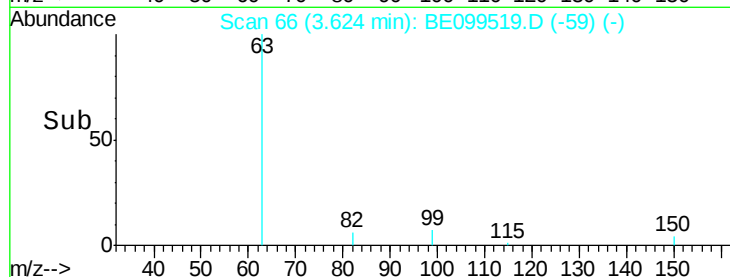
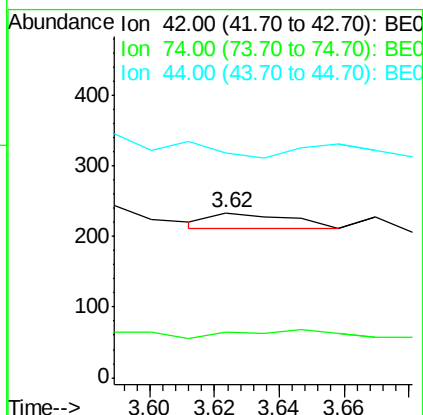
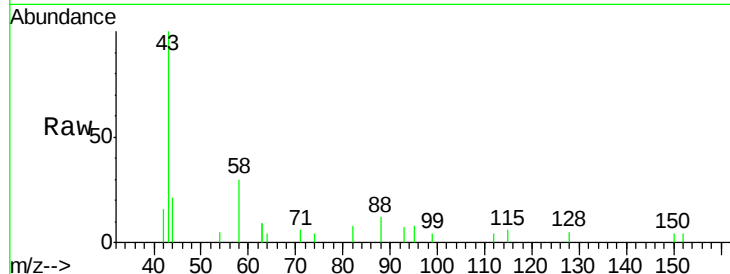


#3

n-Nitrosodimethylamine
 Concen: 0.023 ng
 RT: 3.62 min Scan# 66
 Delta R.T. -0.02 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B191-042419

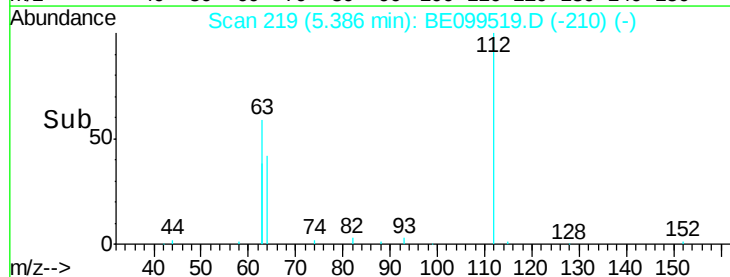
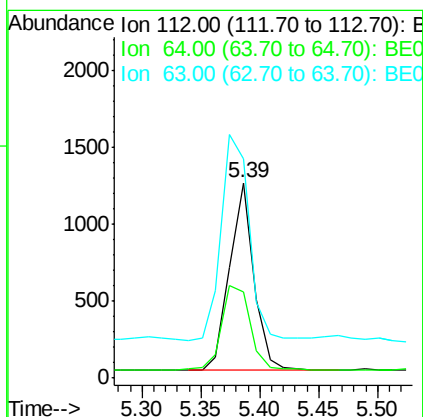
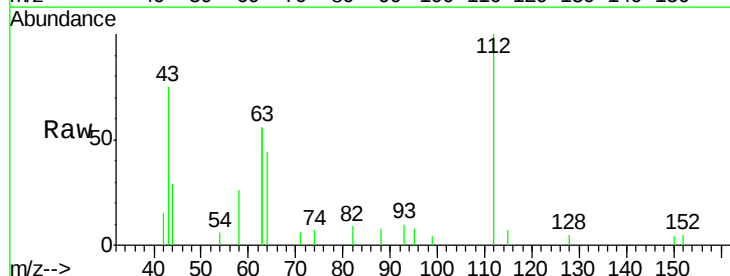
Tot Ion	42	Resp	38
Ion Ratio	Lower	Upper	
42	100		
74	0.0	141.6	212.4#
44	0.0	0.0	0.0

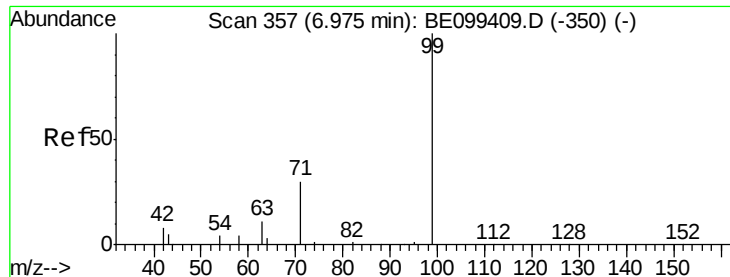


#4

2-Fluorophenol
 Concen: 0.321 ng
 RT: 5.39 min Scan# 219
 Delta R.T. 0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

Tgt Ion	112	Resp	1758
Ion Ratio	Lower	Upper	
112	100		
64	53.9	47.4	71.0
63	125.4	104.3	156.5





#5

Phenol-d6

Concen: 0.339 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

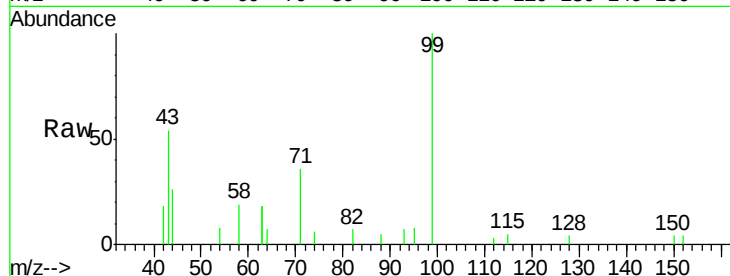
Tot Ion: 99 Resp: 2465

Ion Ratio Lower Upper

99 100

42 18.5 14.9 22.3

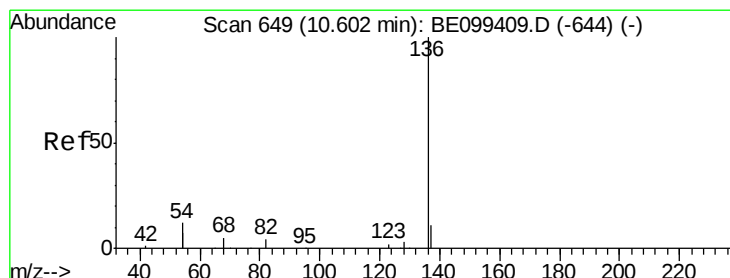
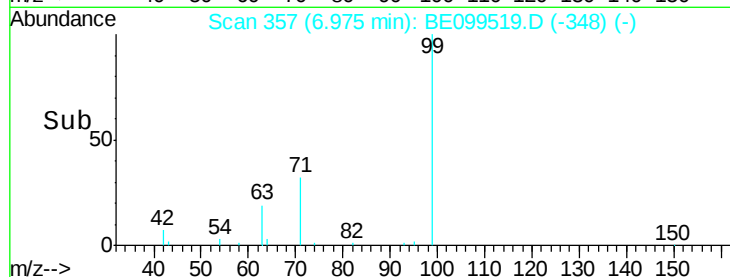
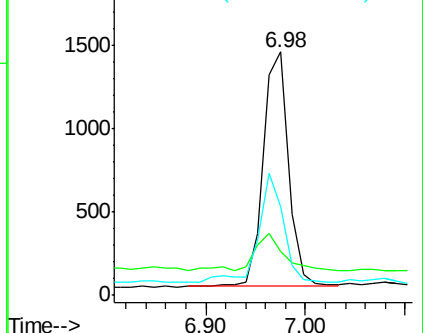
71 46.1 33.0 49.6



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: BE099519.D

Acq: 3 May 2019 7:19

Tgt Ion: 136 Resp: 7387

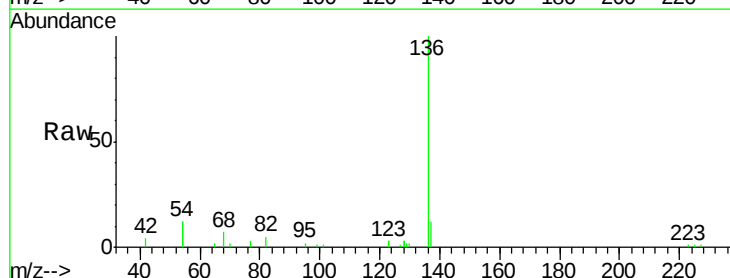
Ion Ratio Lower Upper

136 100

137 11.9 9.8 14.8

54 24.5 18.5 27.7

68 7.3 4.7 7.1#

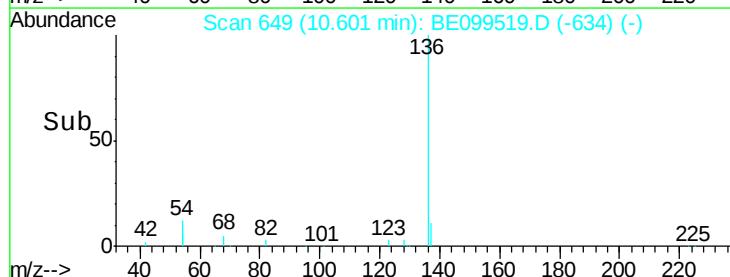
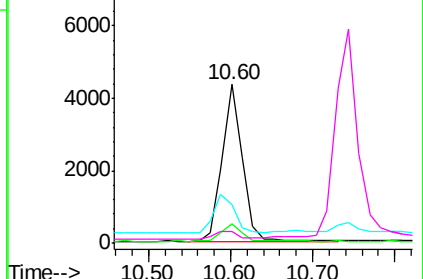


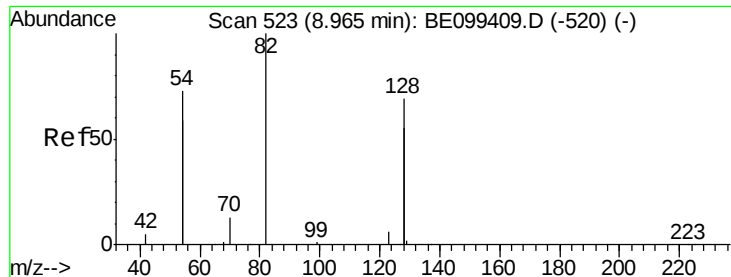
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.292 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

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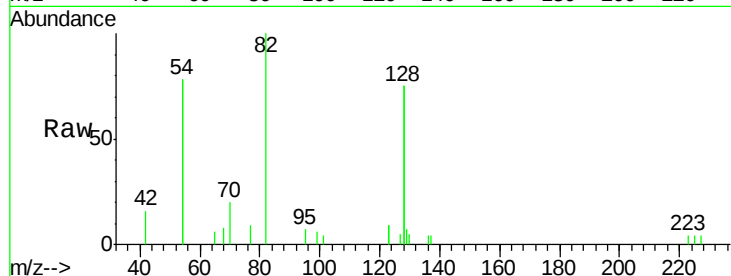
Tot Ion: 82 Resp: 2020

Ion Ratio Lower Upper

82 100

128 149.2 107.0 160.4

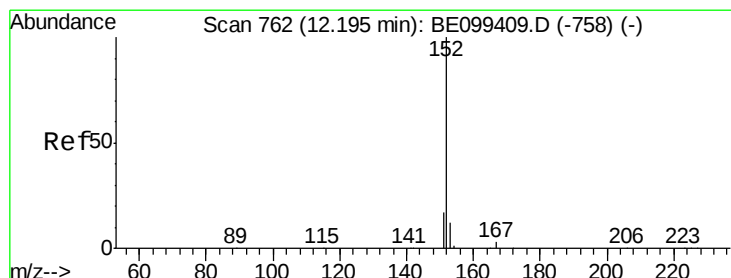
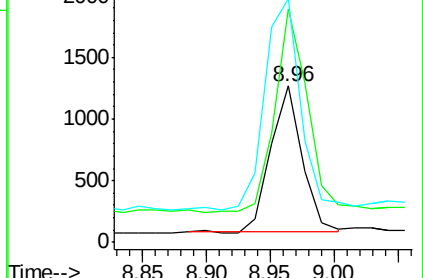
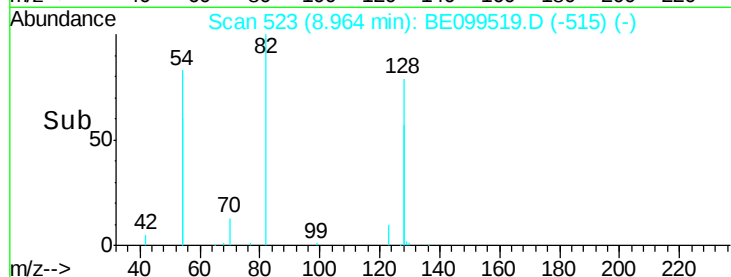
54 156.0 113.1 169.7



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: 0.279 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099519.D

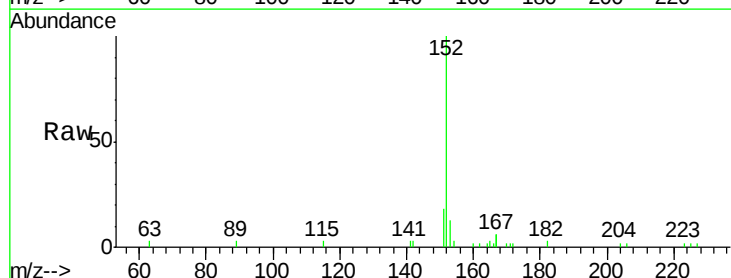
Acq: 3 May 2019 7:19

Tgt Ion: 152 Resp: 3716

Ion Ratio Lower Upper

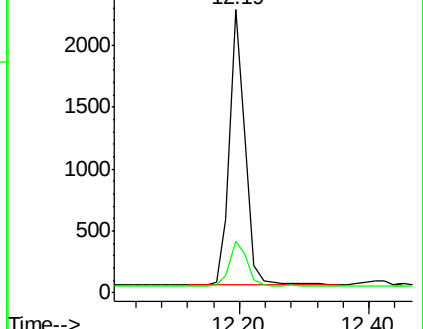
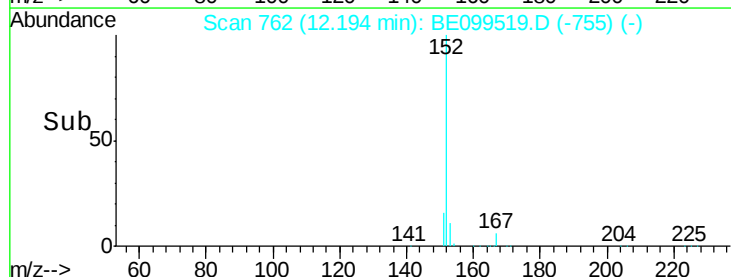
152 100

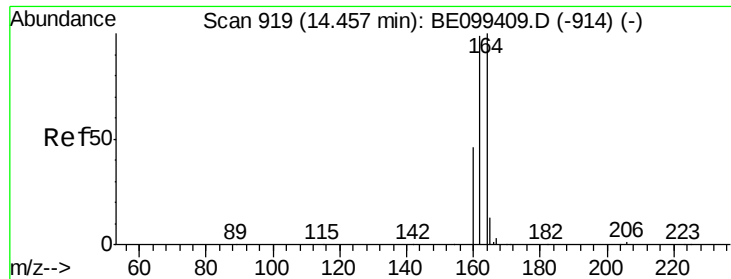
151 18.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0

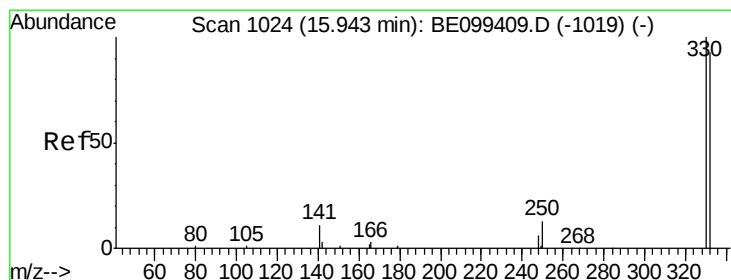
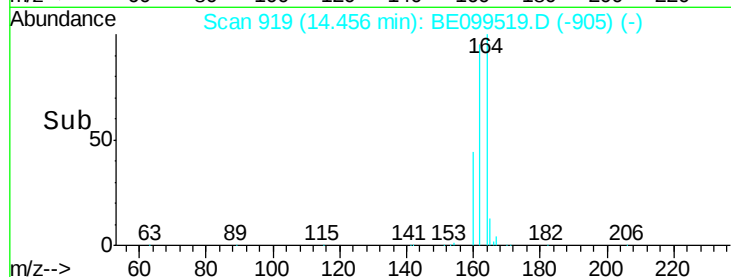
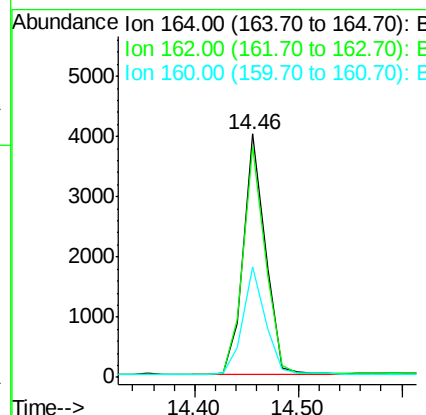
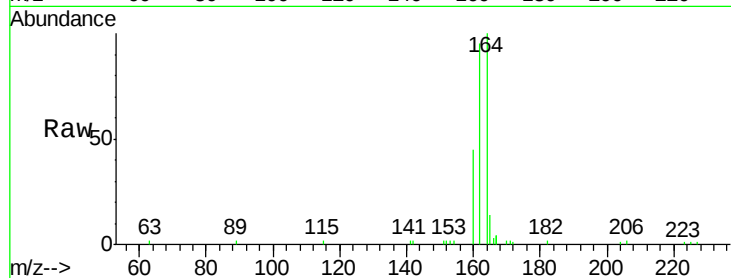




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

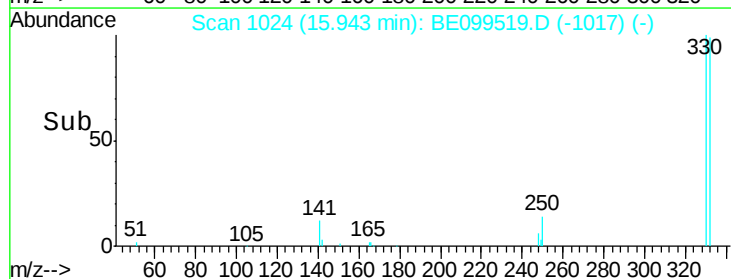
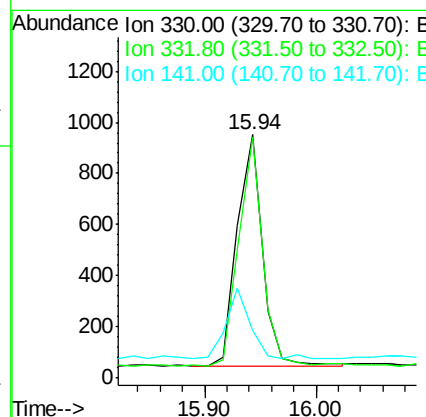
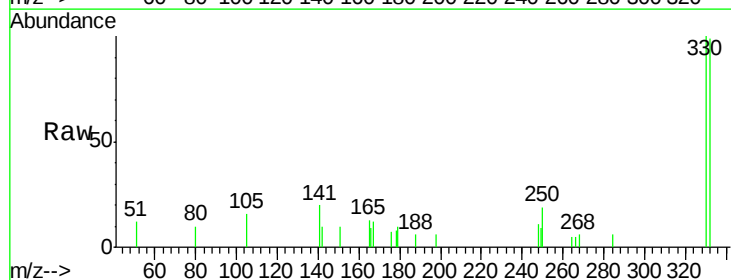
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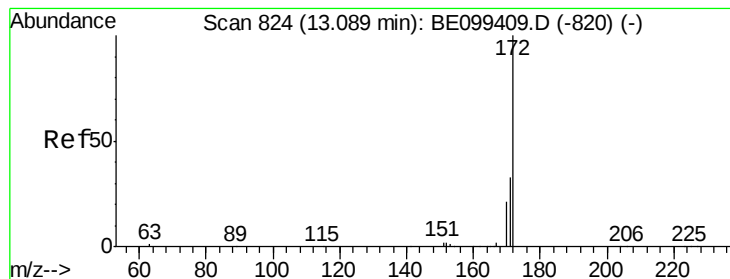
Tot Ion:164 Resp: 5854
 Ion Ratio Lower Upper
 164 100
 162 94.7 79.0 118.4
 160 45.2 37.0 55.4



#14
 2,4,6-Tribromophenol
 Concen: 0.386 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

Tgt Ion:330 Resp: 1422
 Ion Ratio Lower Upper
 330 100
 332 93.4 71.5 107.3
 141 30.1 24.0 36.0

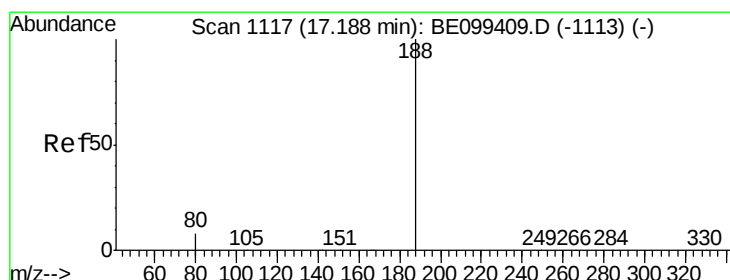
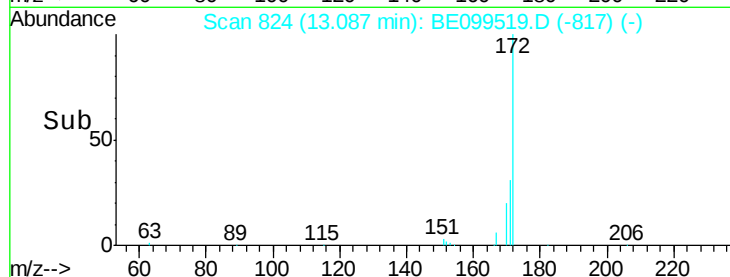
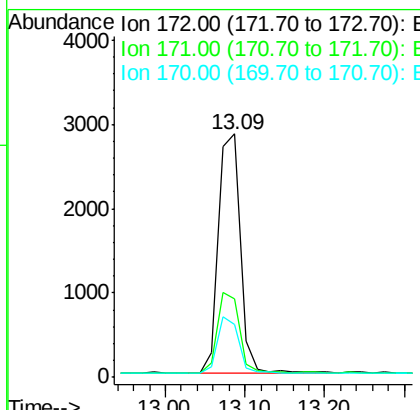
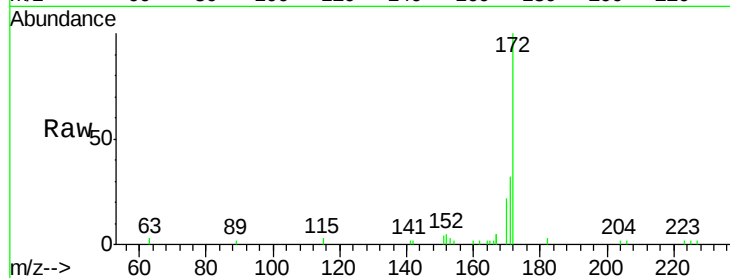




#15
 2-Fluorobiphenyl
 Concen: 0.244 ng
 RT: 13.09 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

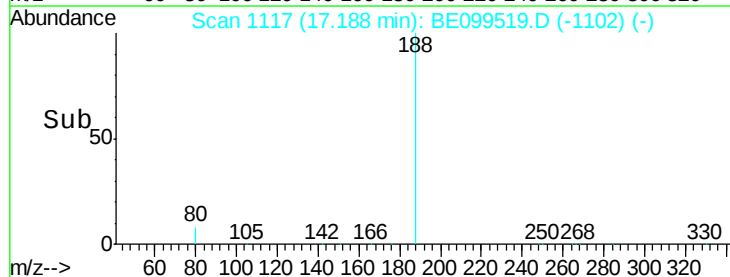
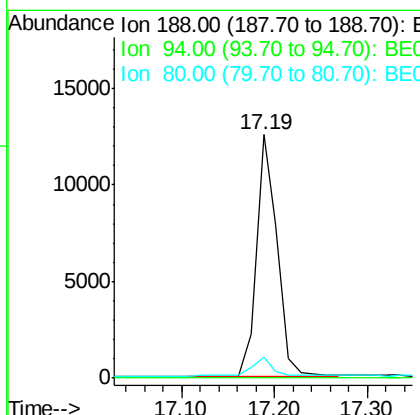
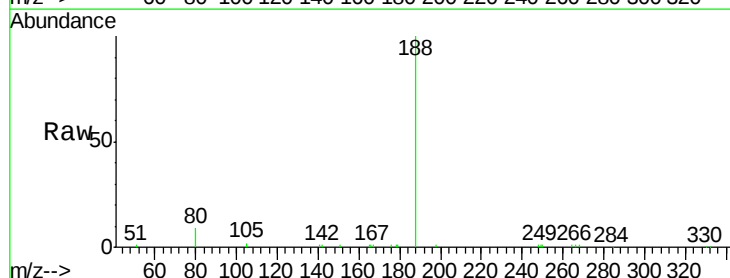
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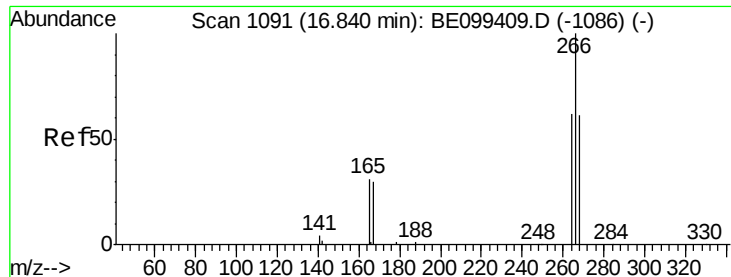
Tot Ion:172 Resp: 5445
 Ion Ratio Lower Upper
 172 100
 171 32.3 26.6 39.8
 170 21.7 17.0 25.6



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. 0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

Tgt Ion:188 Resp: 19529
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 8.5 6.7 10.1

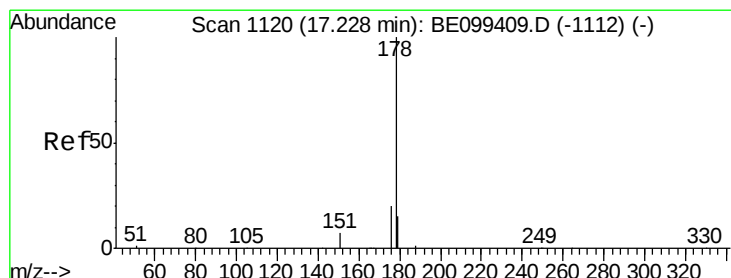
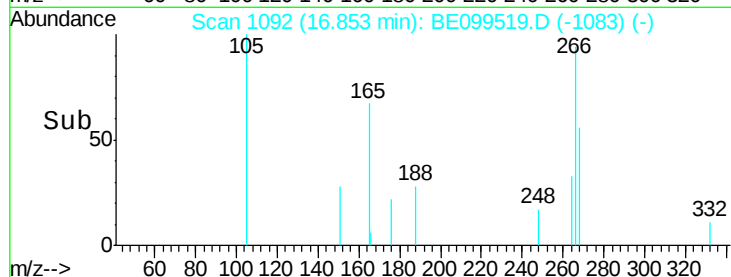
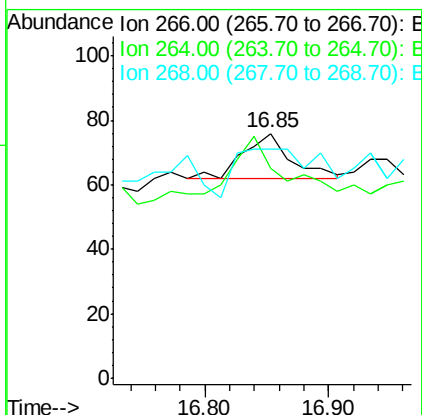
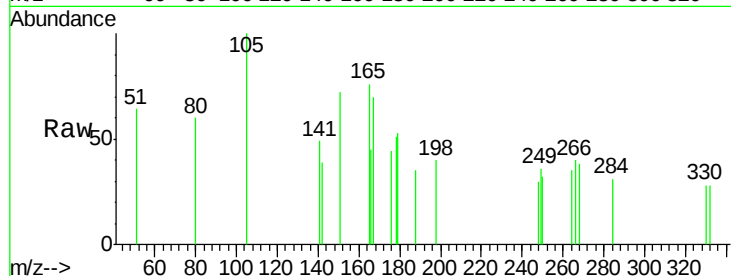




#22
 Pentachlorophenol
 Concen: 0.222 ng
 RT: 16.85 min Scan# 1092
 Delta R.T. 0.01 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

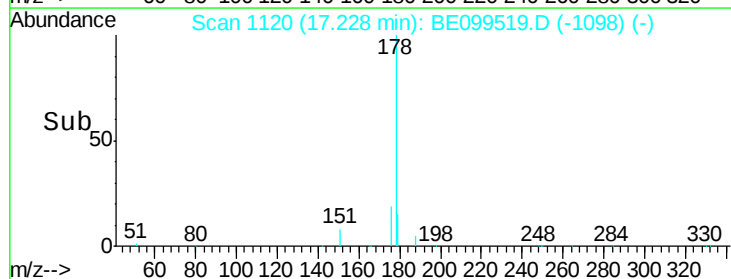
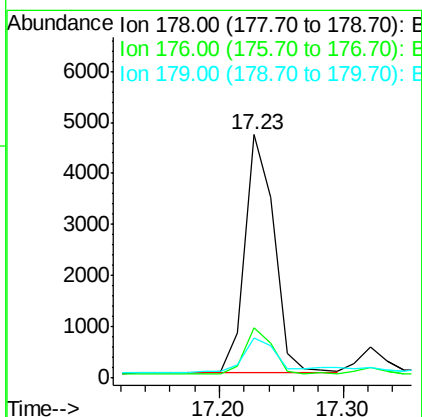
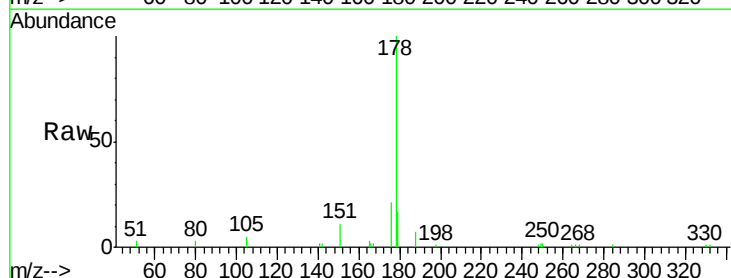
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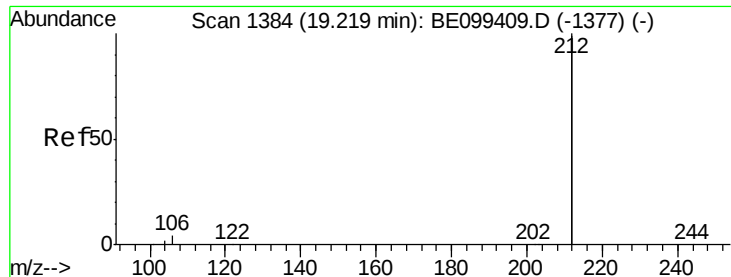
Tot Ion:266 Resp: 37
 Ion Ratio Lower Upper
 266 100
 264 85.5 50.8 76.2#
 268 93.4 50.5 75.7#



#23
 Phenanthrene
 Concen: 0.150 ng
 RT: 17.23 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: BE099519.D
 Acq: 3 May 2019 7:19

Tgt Ion:178 Resp: 7583
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.6 23.4
 179 16.7 12.0 18.0





#25

Fluoranthene-d10

Concen: 0.233 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

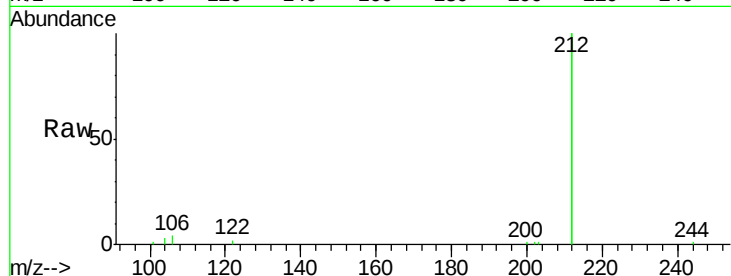
Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

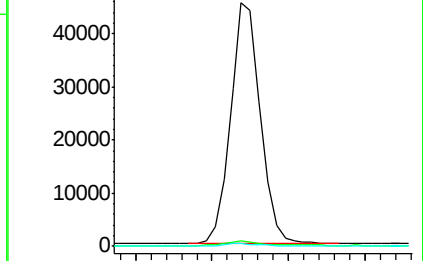
Tot Ion:212	Resp:	61312
Ion Ratio	Lower	Upper
212	100	
106	2.1	1.5 2.3
104	1.1	0.9 1.3



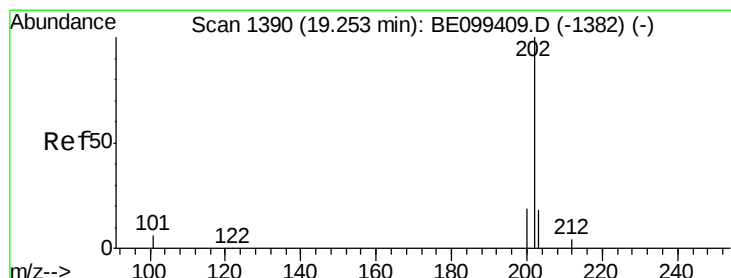
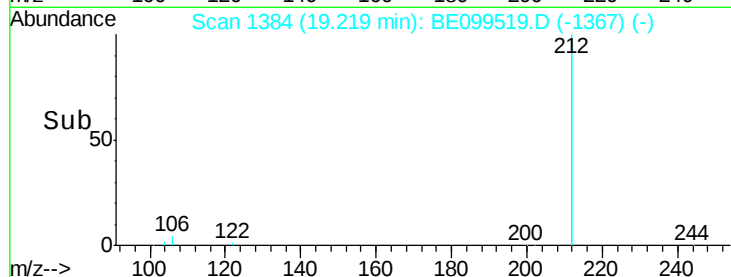
Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->



#26

Fluoranthene

Concen: 0.240 ng

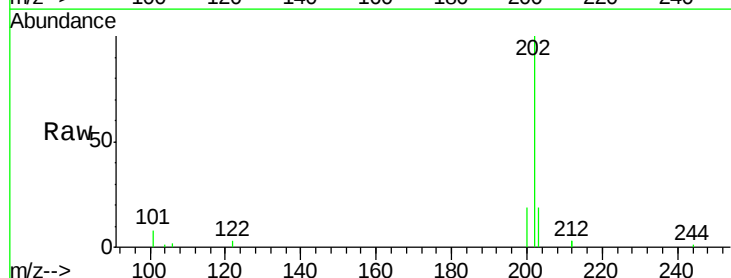
RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

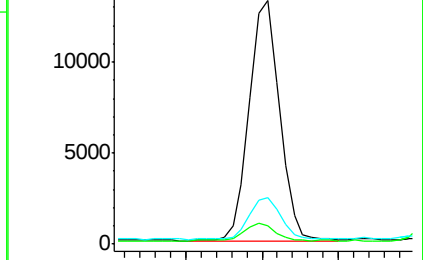
Tgt Ion:202	Resp:	18113
Ion Ratio	Lower	Upper
202	100	
101	8.7	5.4 8.0#
203	17.9	13.9 20.9



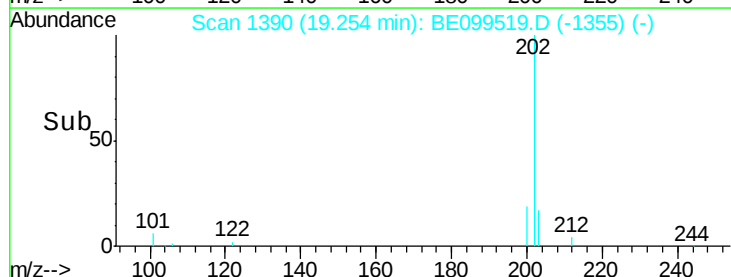
Abundance Ion 202.00 (201.70 to 202.70): E

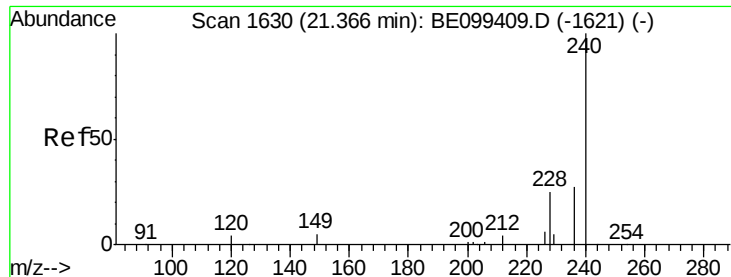
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

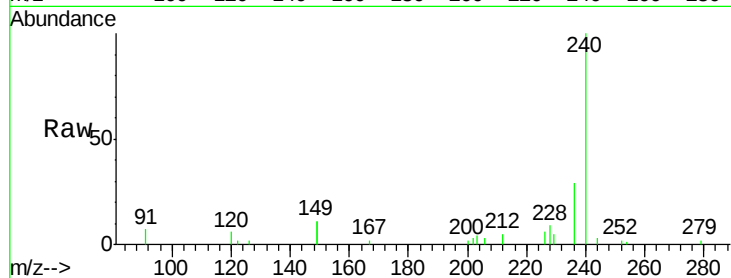
Tot Ion:240 Resp: 24138

Ion Ratio Lower Upper

240 100

120 5.5 4.0 6.0

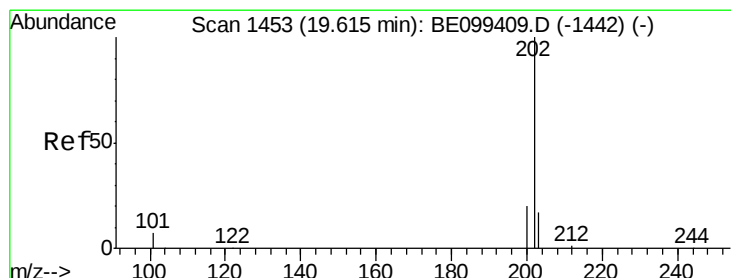
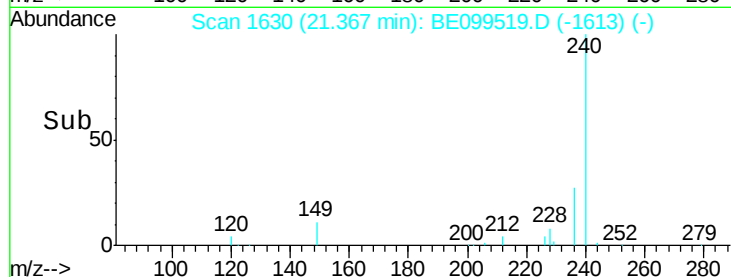
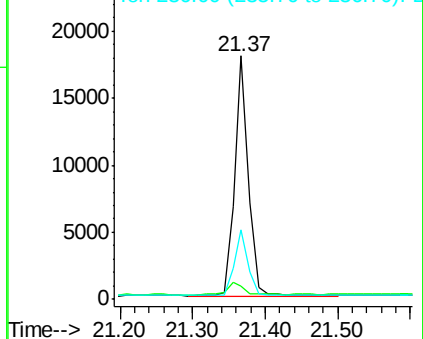
236 28.6 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.283 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

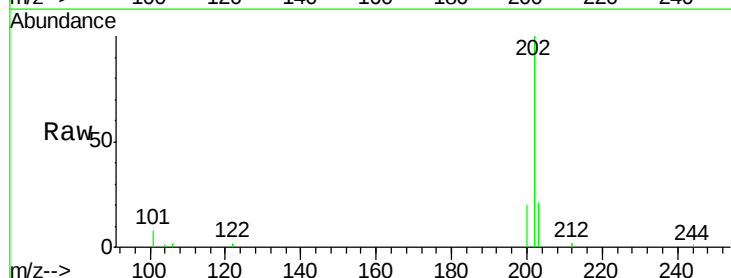
Tgt Ion:202 Resp: 17829

Ion Ratio Lower Upper

202 100

200 20.0 15.7 23.5

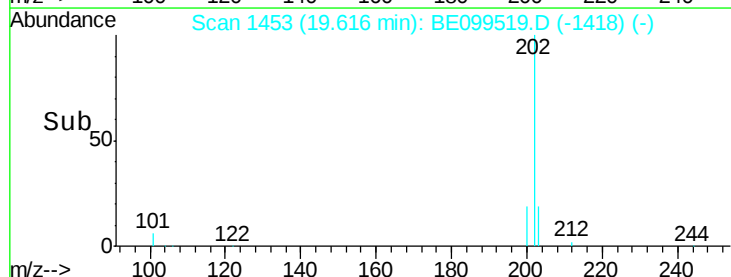
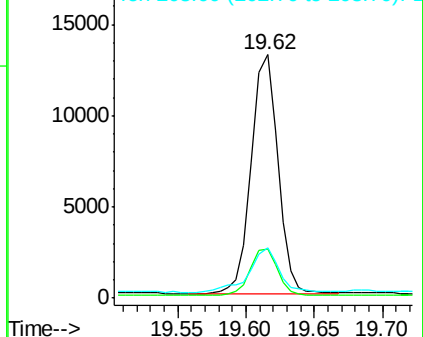
203 20.5 13.9 20.9

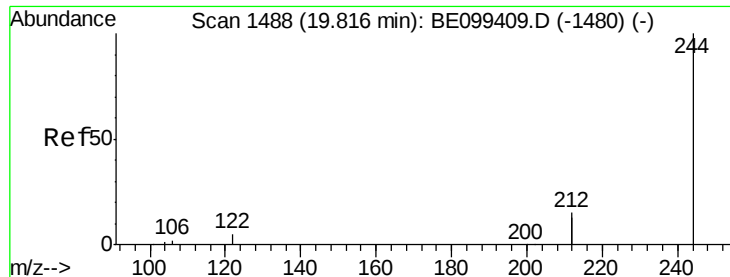


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.273 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

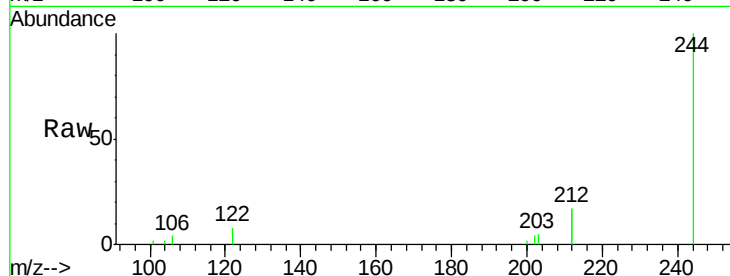
Tot Ion:244 Resp: 12059

Ion Ratio Lower Upper

244 100

212 34.9 23.2 34.8#

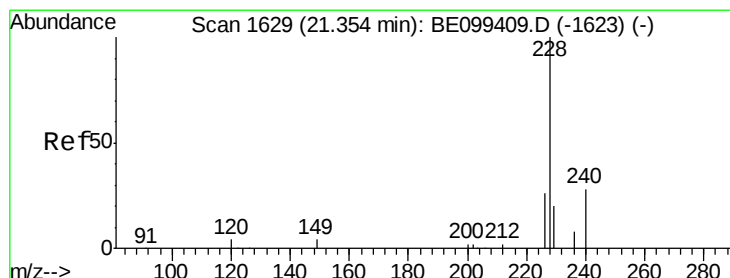
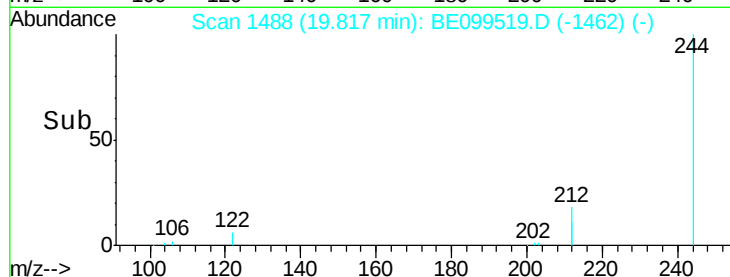
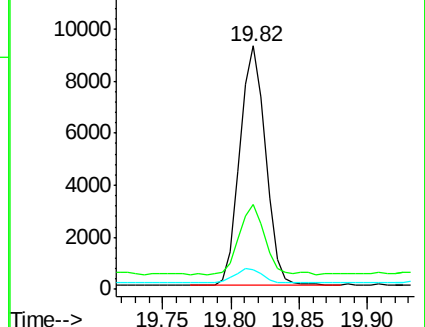
122 8.1 4.2 6.4#



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: 0.125 ng

RT: 21.36 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

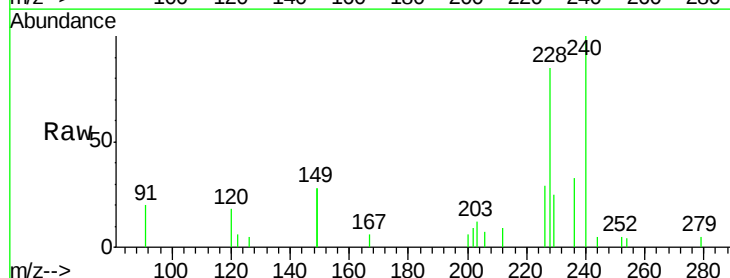
Tgt Ion:228 Resp: 9622

Ion Ratio Lower Upper

228 100

226 33.9 21.0 31.6#

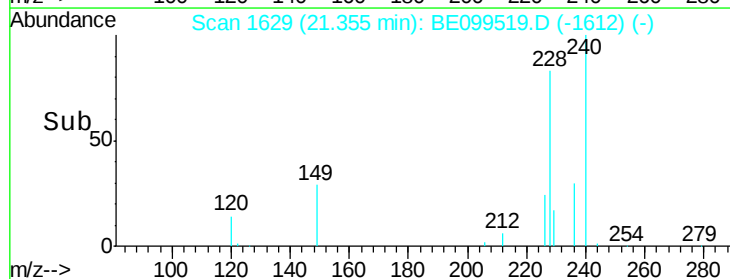
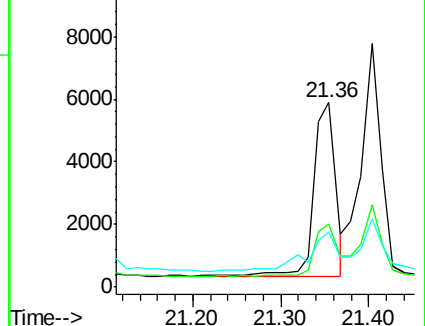
229 29.7 16.6 25.0#

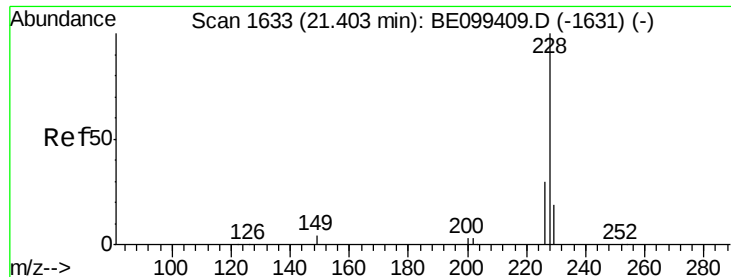


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.158 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

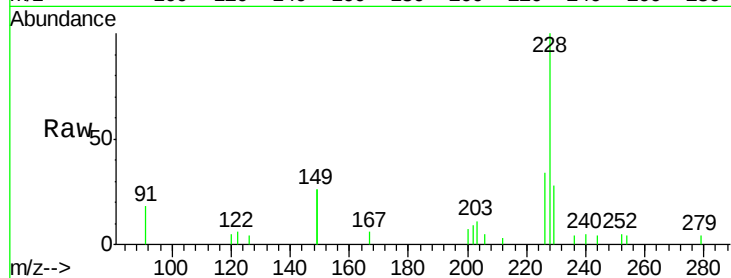
Tot Ion:228 Resp: 11855

Ion Ratio Lower Upper

228 100

226 34.0 24.0 36.0

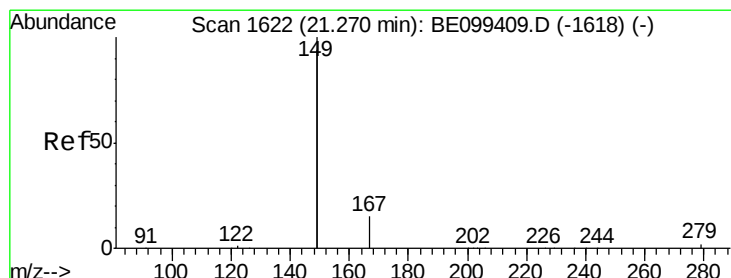
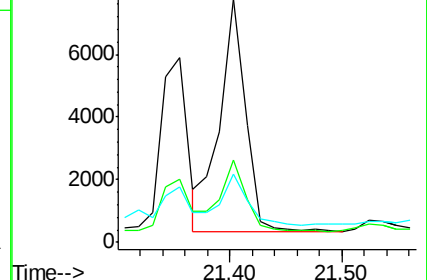
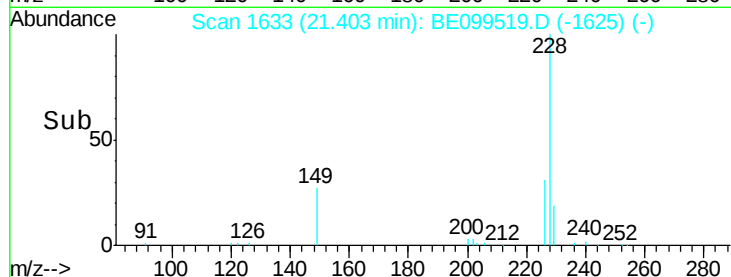
229 27.9 15.8 23.8#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.138 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

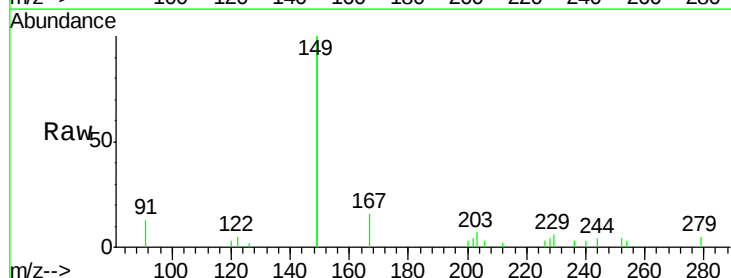
Tgt Ion:149 Resp: 22782

Ion Ratio Lower Upper

149 100

167 8.0 5.8 8.6

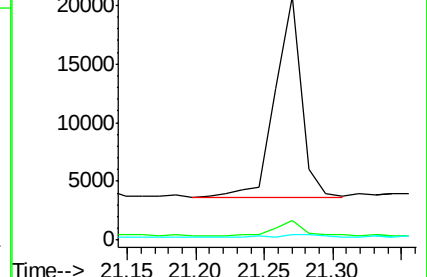
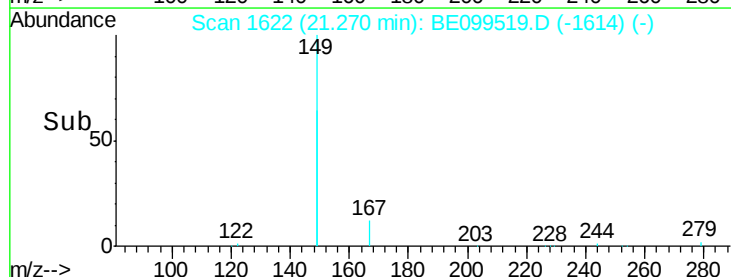
279 2.0 1.0 1.6#

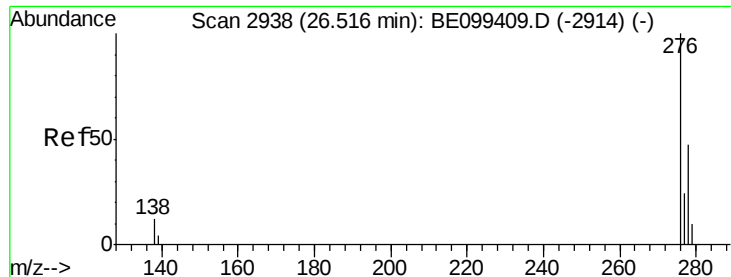


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.080 ng

RT: 26.52 min Scan# 2939

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

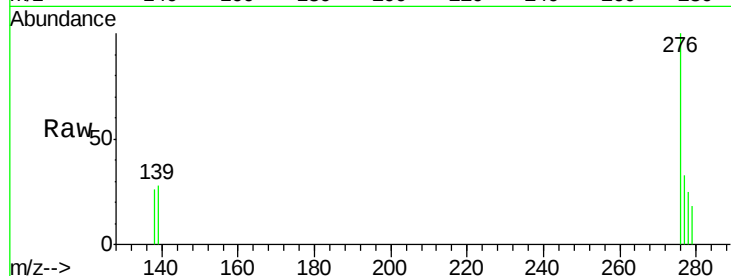
Tot Ion:276 Resp: 7143

Ion Ratio Lower Upper

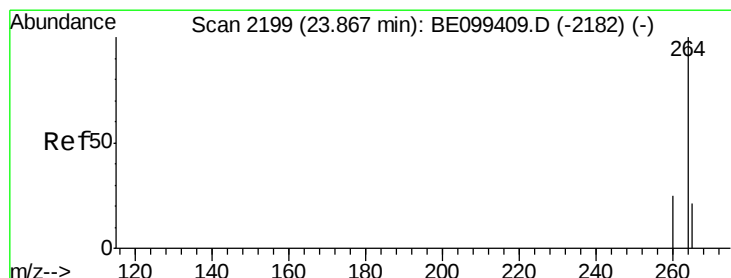
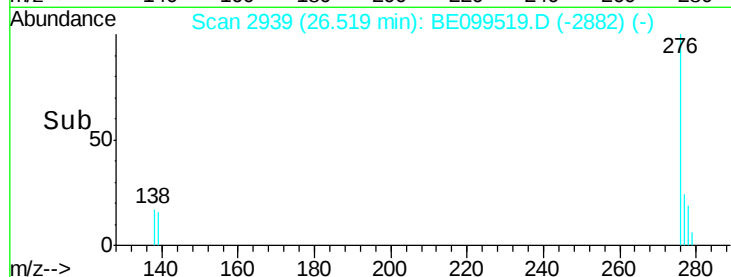
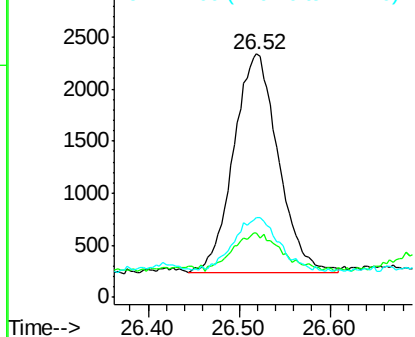
276 100

138 18.6 10.2 15.2#

277 23.8 19.2 28.8



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: 23.87 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

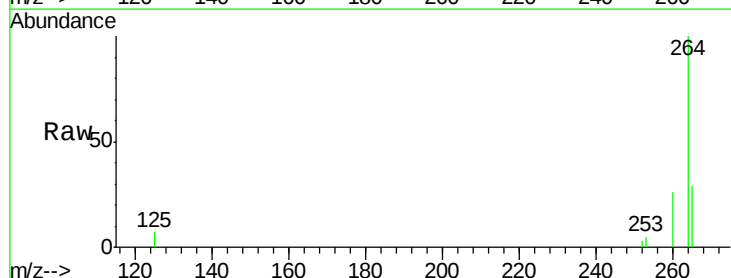
Tgt Ion:264 Resp: 27911

Ion Ratio Lower Upper

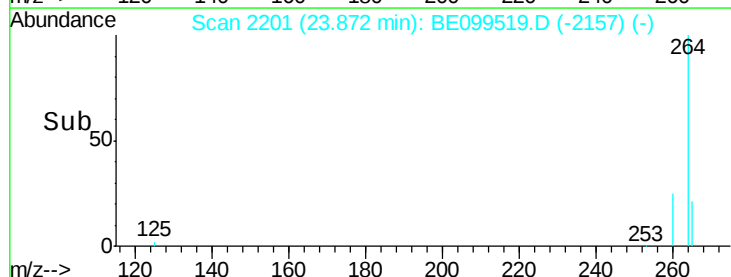
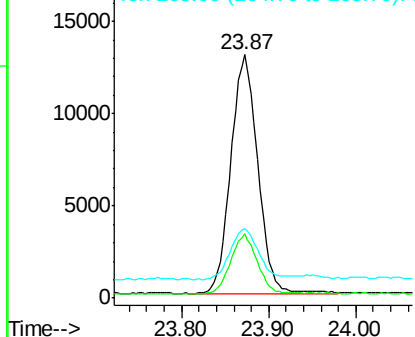
264 100

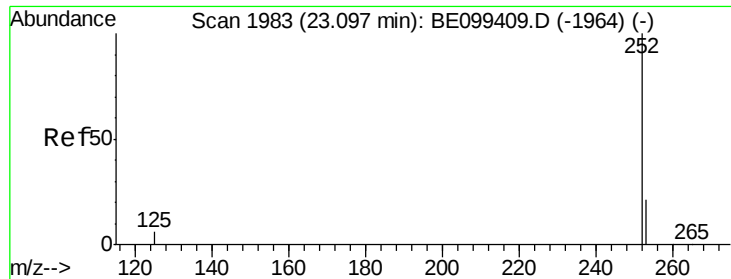
260 26.4 20.2 30.2

265 28.5 21.3 31.9



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: 0.183 ng

RT: 23.10 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

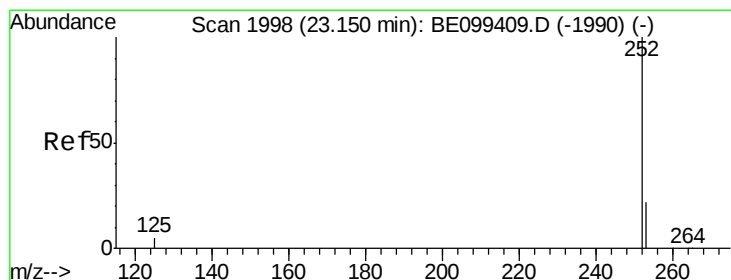
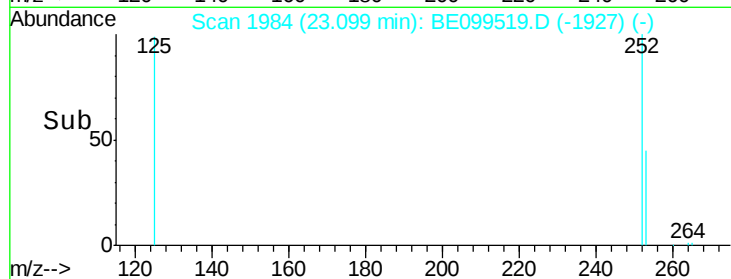
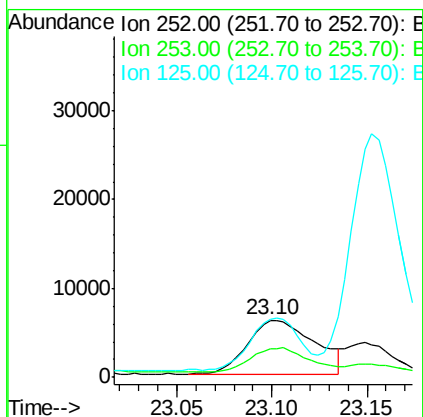
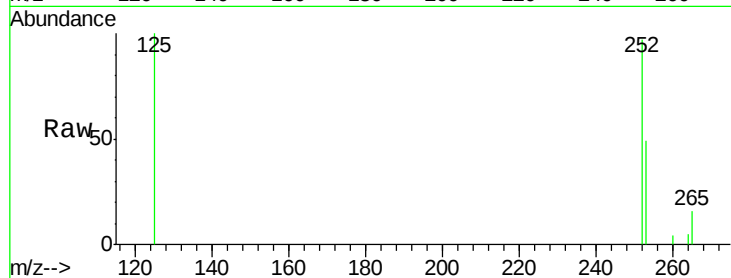
Tot Ion:252 Resp: 14754

Ion Ratio Lower Upper

252 100

253 50.4 18.1 27.1#

125 103.1 5.6 8.4#



#36

Benzo(k)fluoranthene

Concen: 0.190 ng

RT: 23.10 min Scan# 1984

Delta R.T. -0.05 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

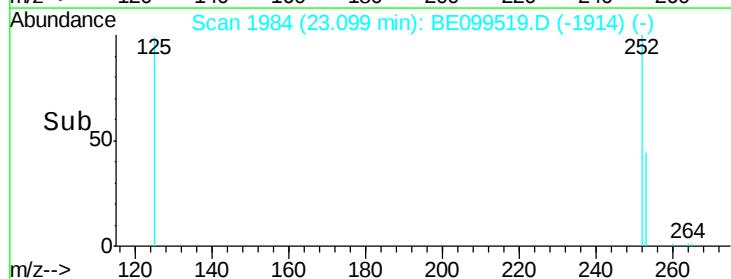
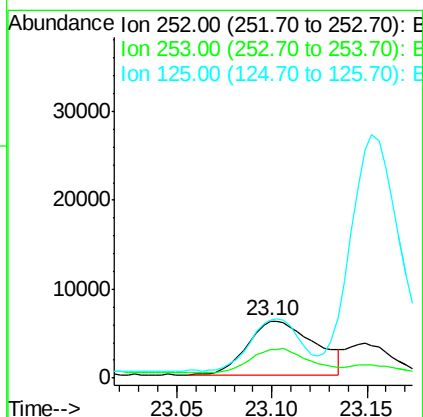
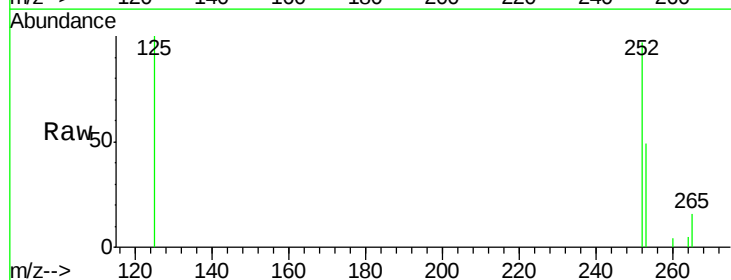
Tgt Ion:252 Resp: 14754

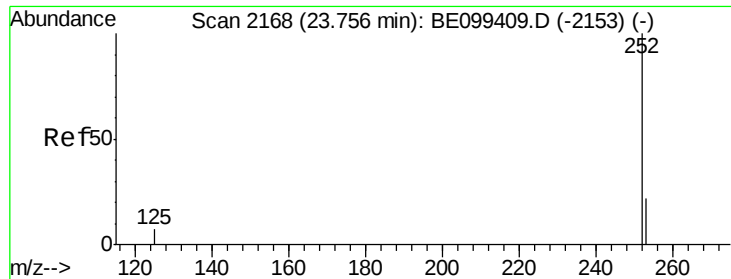
Ion Ratio Lower Upper

252 100

253 50.4 18.4 27.6#

125 103.1 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.127 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419

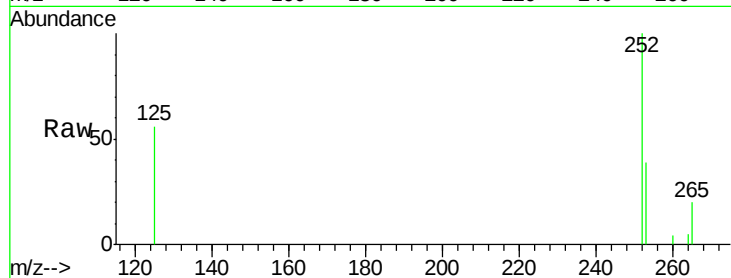
Tot Ion:252 Resp: 9645

Ion Ratio Lower Upper

252 100

253 39.3 18.9 28.3#

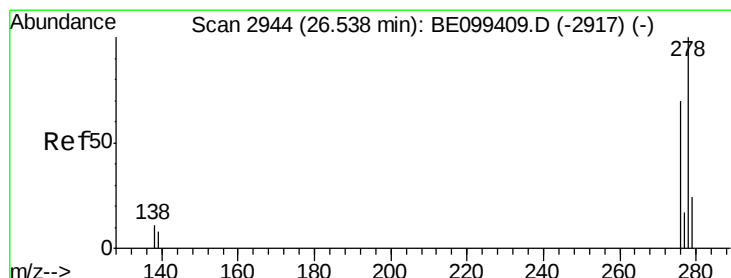
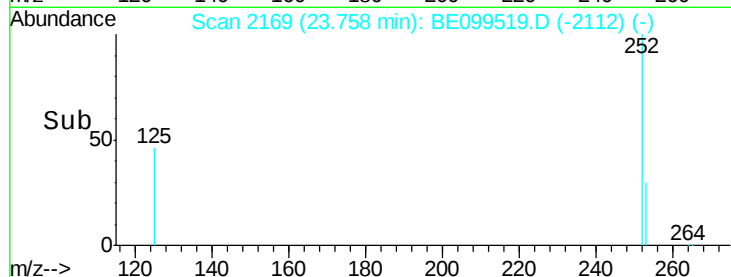
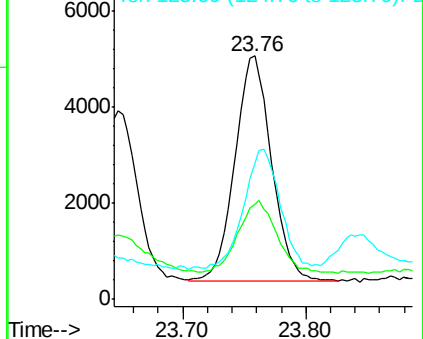
125 55.9 6.7 10.1#



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: 0.024 ng

RT: 26.54 min Scan# 2944

Delta R.T. -0.00 min

Lab File: BE099519.D

Acq: 3 May 2019 7:19

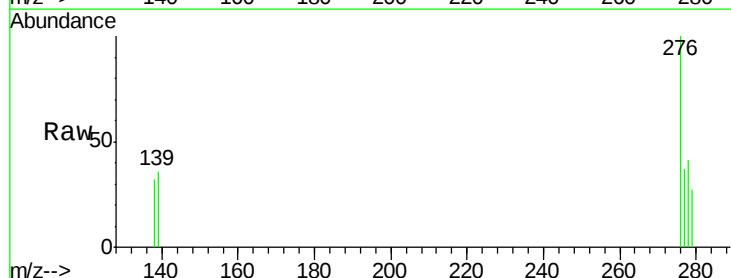
Tgt Ion:278 Resp: 1851

Ion Ratio Lower Upper

278 100

139 87.1 7.7 11.5#

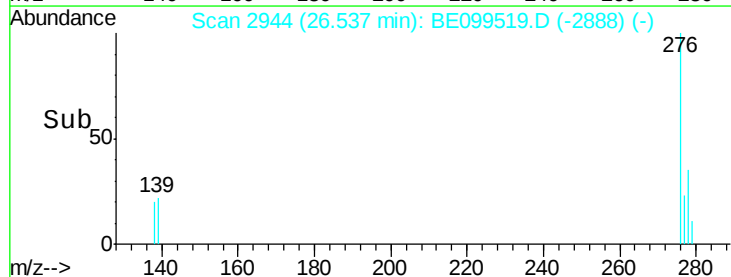
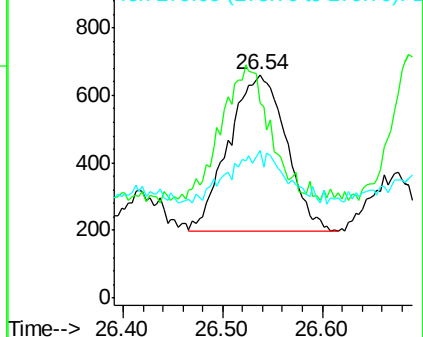
279 66.0 20.2 30.2#

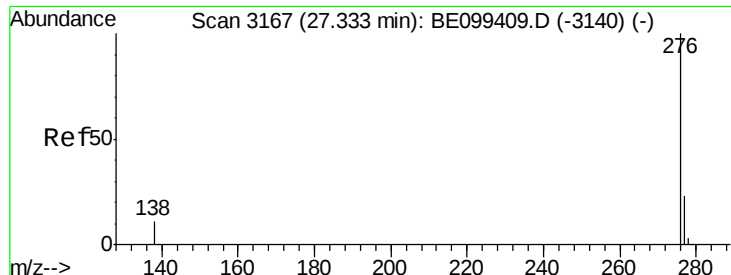


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.092 ng

RT: 27.34 min Scan# 3169

Delta R.T. 0.01 min

Lab File: BE099519.D

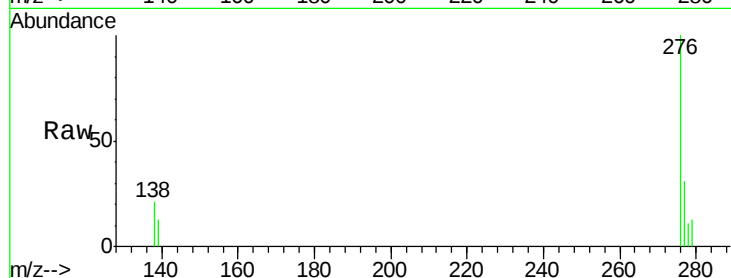
Acq: 3 May 2019 7:19

Instrument :

BNA_E

ClientSampleId :

PST-001-B191-042419



Tot Ion: 276 Resp: 7211

Ion Ratio Lower Upper

276 100

277 31.4 19.5 29.3#

138 20.7 9.6 14.4#

