

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
 Data File : BE099522.D
 Acq On : 3 May 2019 9:07
 Operator : JU/SJ
 Sample : K2589-14DL 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B188-042419DL

Manual Integrations
 APPROVED

Sohil
 5/3/2019 4:24:26 PM

Quant Time: May 03 13:38:37 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	2808	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	10937	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	9200	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	31302	0.40	ng	0.00
27) Chrysene-d12	21.37	240	38063	0.40	ng	0.00
34) Perylene-d12	23.87	264	44397	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	346	0.04	ng	0.00
5) Phenol-d6	6.97	99	476	0.05	ng	0.00
8) Nitrobenzene-d5	8.96	82	392	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	598	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	262	0.05	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	1150	0.03	ng	0.00
25) Fluoranthene-d10	19.22	212	10766	0.03	ng	0.00
29) Terphenyl-d14	19.82	244	3323	0.05	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	11283	0.095	ng	# 98
12) 2-Methylnaphthalene	12.27	142	1452	0.070	ng	95
16) Acenaphthylene	14.18	152	1362	0.030	ng	# 91
17) Acenaphthene	14.51	154	4286	0.167	ng	98
18) Fluorene	15.49	166	5912	0.156	ng	# 96
22) Pentachlorophenol	16.84	266	159	0.231	ng	# 76
23) Phenanthrene	17.23	178	131345	1.626	ng	100
24) Anthracene	17.32	178	24810	0.322	ng	# 94
26) Fluoranthene	19.25	202	166444	1.376	ng	99
28) Pyrene	19.62	202	146941	1.481	ng	# 95
30) Benzo(a)anthracene	21.35	228	87477	0.721	ng	99
31) Chrysene	21.40	228	70680	0.596	ng	96
33) Indeno(1,2,3-cd)pyrene	26.51	276	32814	0.234	ng	97
35) Benzo(b)fluoranthene	23.10	252	74293	0.580	ng	97
36) Benzo(k)fluoranthene	23.15	252	27845m	0.226	ng	
37) Benzo(a)pyrene	23.76	252	55694	0.460	ng	99
38) Dibenzo(a,h)anthracene	26.54	278	9300	0.075	ng	# 83
39) Benzo(g,h,i)perylene	27.34	276	30544	0.246	ng	97

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

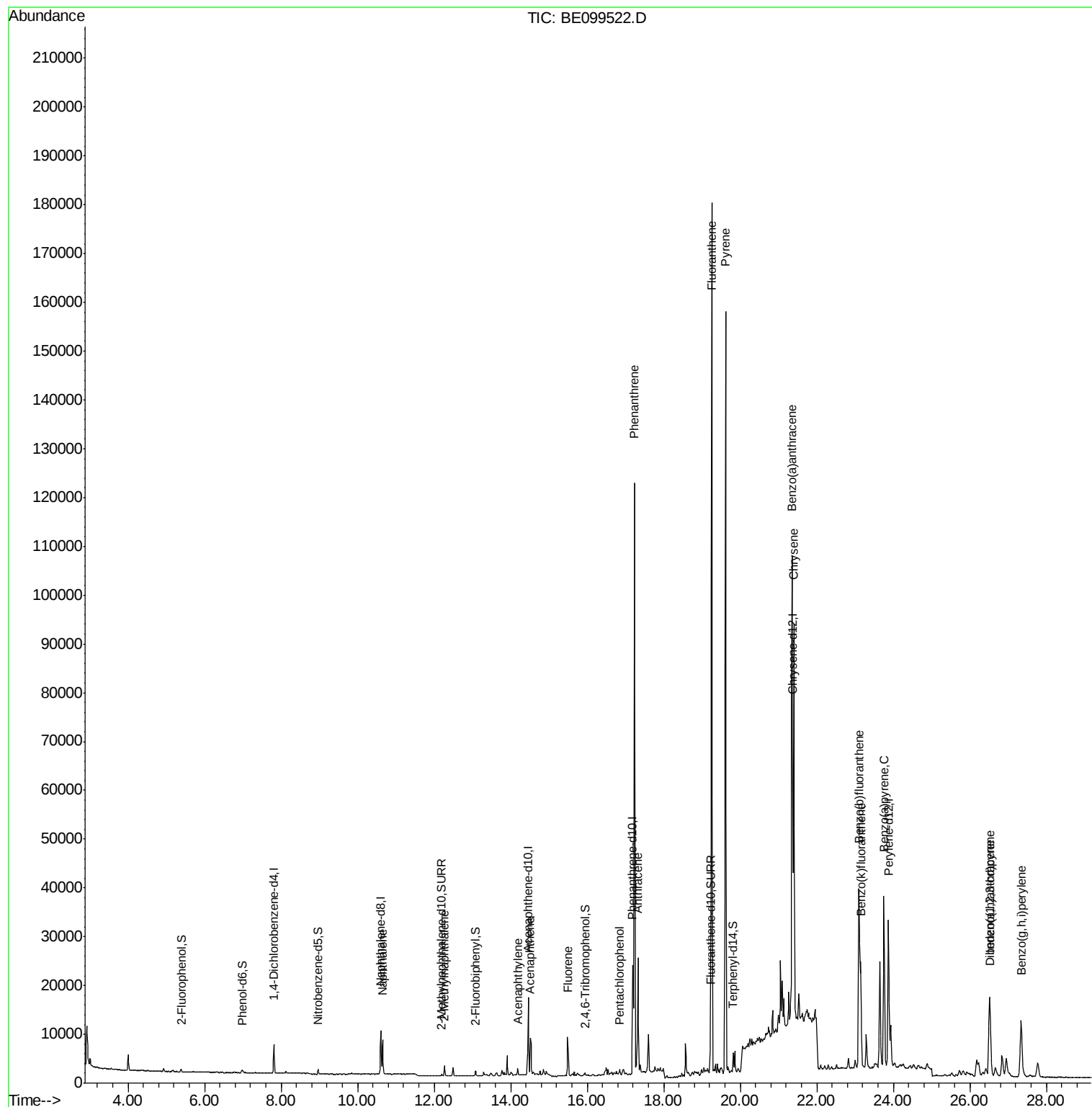
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
Data File : BE099522.D
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Operator : JU/SJ
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 29 18:36:43 2019
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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: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

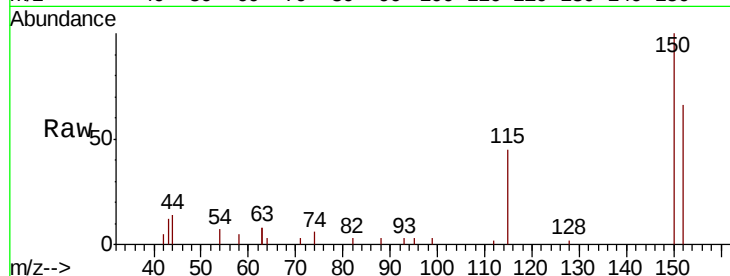
ClientSampleId :

PST-001-B188-042419DL

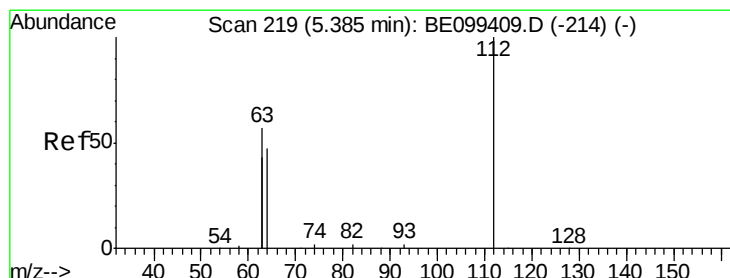
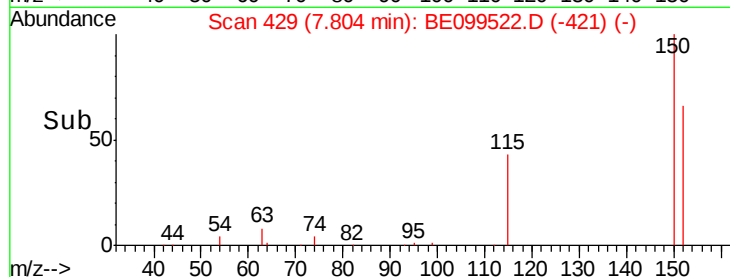
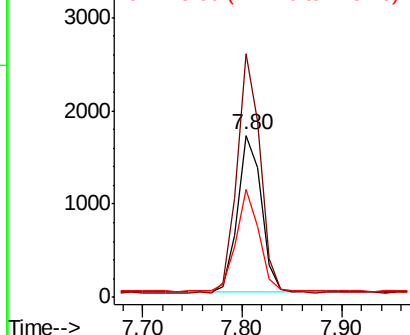
Tgt Ion:	152	Resp:	2808
Ion Ratio	Lower	Upper	
152	100		
150	150.4	104.8	157.2
115	66.9	46.6	69.8

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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: 0.045 ng

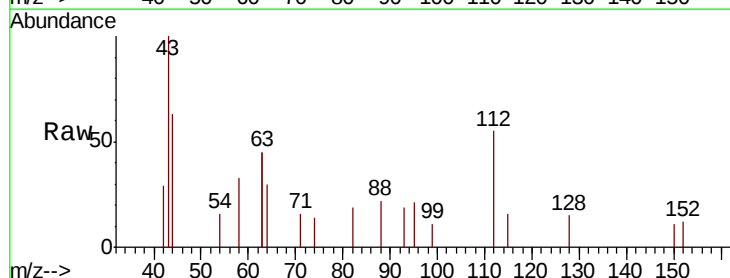
RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

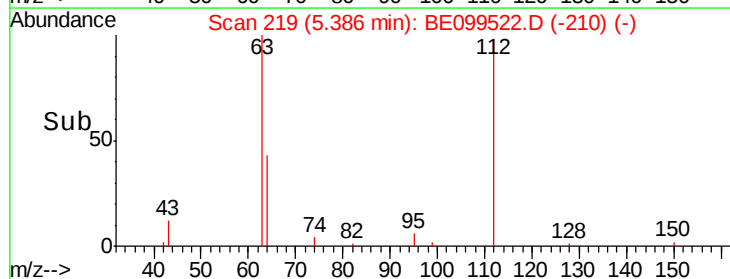
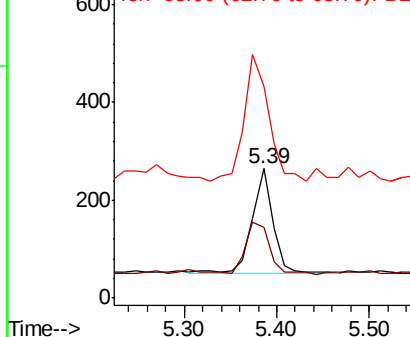
Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	112	Resp:	346
Ion Ratio	Lower	Upper	
112	100		
64	57.8	47.4	71.0
63	139.0	104.3	156.5



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: 0.046 ng

RT: 6.97 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

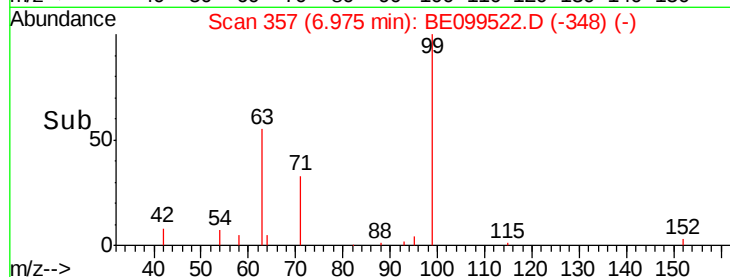
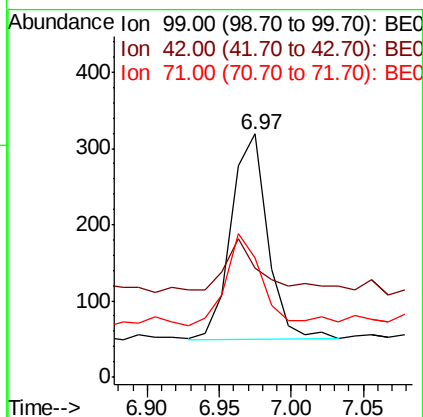
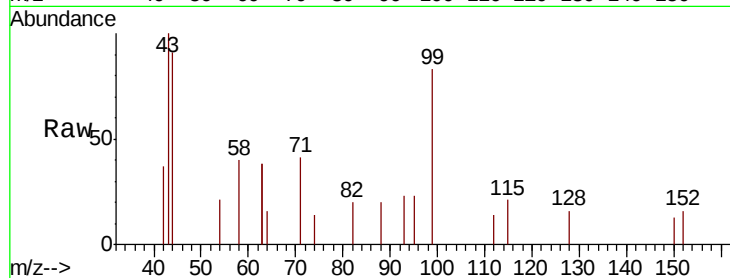
ClientSampleId :

PST-001-B188-042419DL

Tgt Ion:	99	Resp:	476
Ion Ratio	Lower	Upper	
99	100		
42	23.3	14.9	22.3#
71	43.9	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

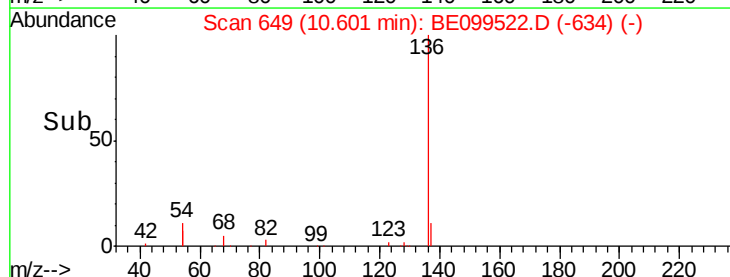
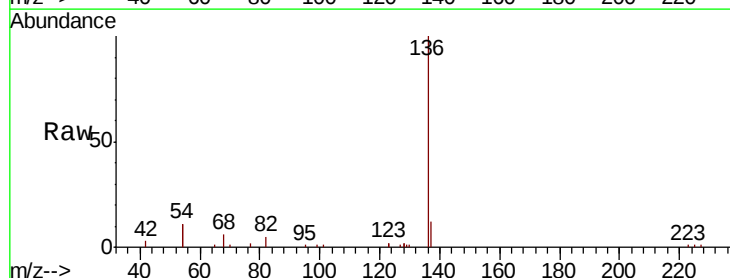
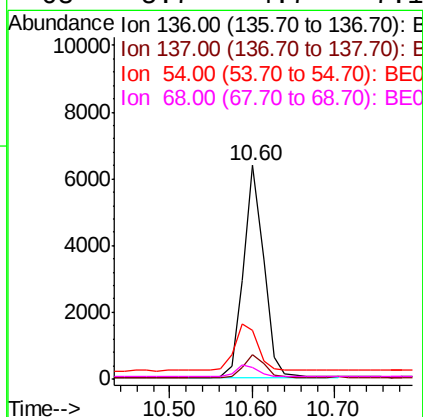
RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	136	Resp:	10937
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.8	14.8
54	22.6	18.5	27.7
68	5.7	4.7	7.1





#8

Nitrobenzene-d5

Concen: 0.038 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

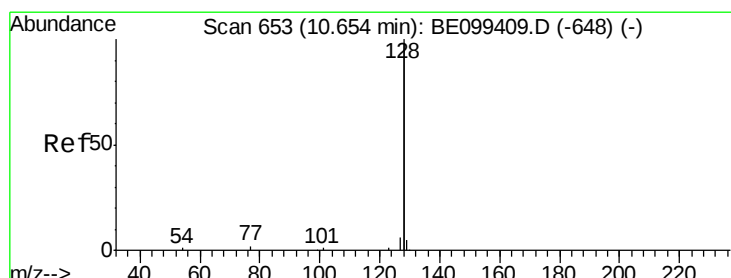
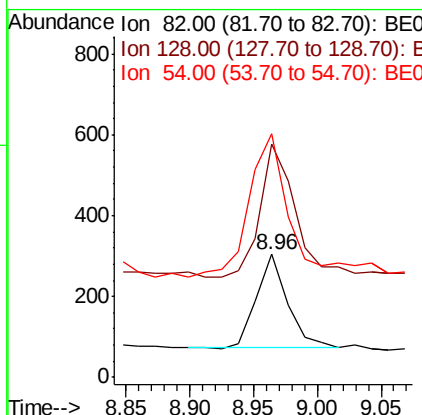
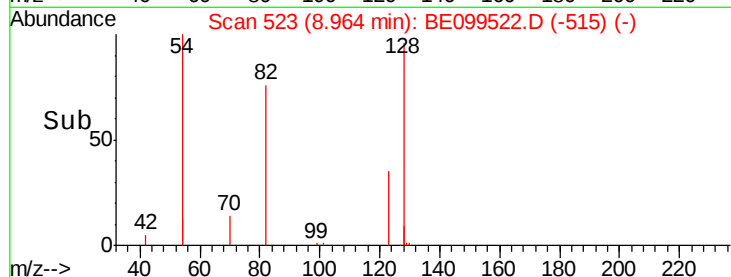
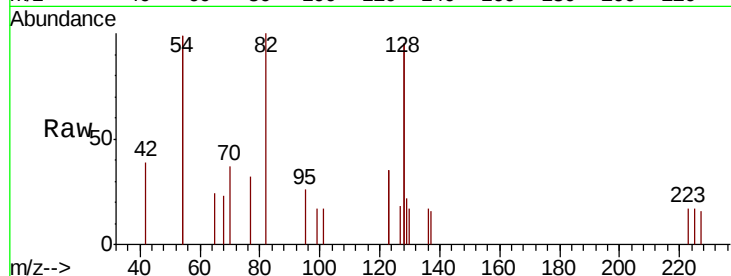
ClientSampleId :

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Tgt Ion:	82	Resp:	392
Ion Ratio	Lower	Upper	
82	100		
128	189.5	107.0	160.4#
54	198.0	113.1	169.7#

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#9

Naphthalene

Concen: 0.095 ng

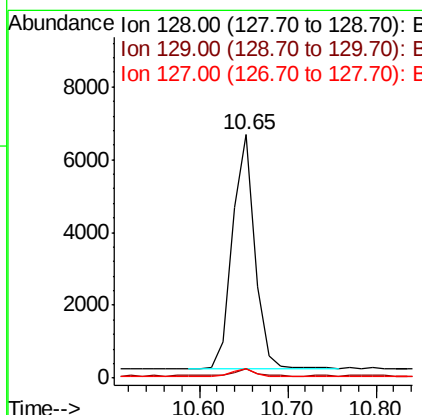
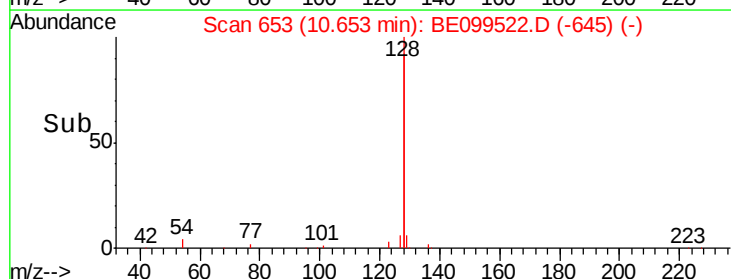
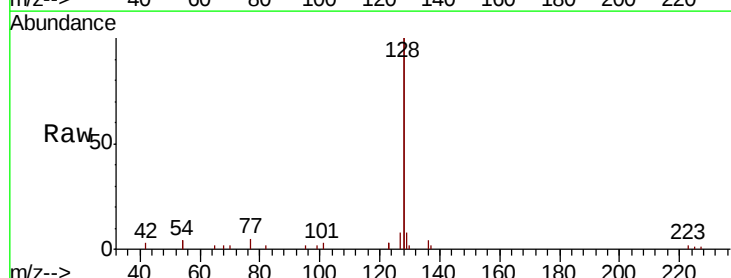
RT: 10.65 min Scan# 653

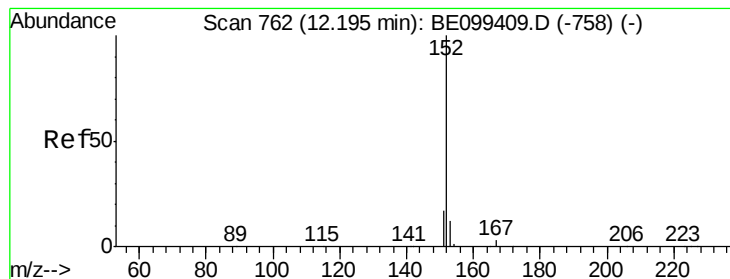
Delta R.T. -0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	128	Resp:	11283
Ion Ratio	Lower	Upper	
128	100		
129	3.8	2.4	3.6#
127	3.9	2.8	4.2





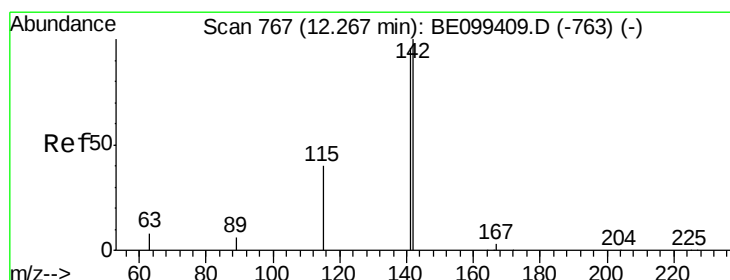
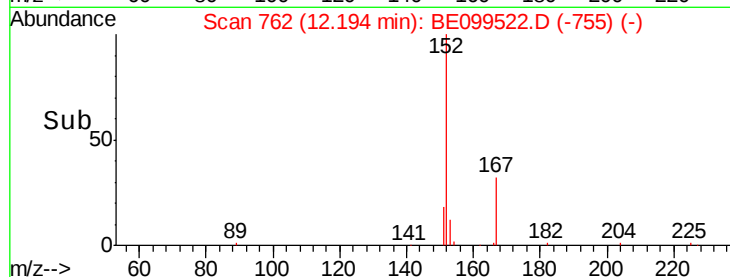
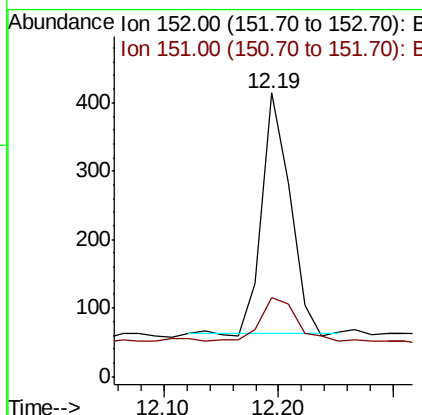
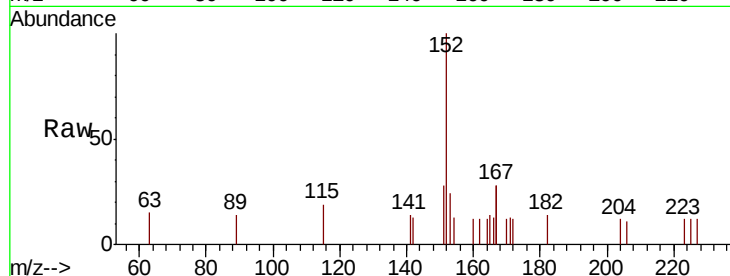
#11
2-Methylnaphthalene-d10
Concen: 0.030 ng
RT: 12.19 min Scan# 762
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion:152 Resp: 598
Ion Ratio Lower Upper
152 100
151 24.1 15.5 23.3#

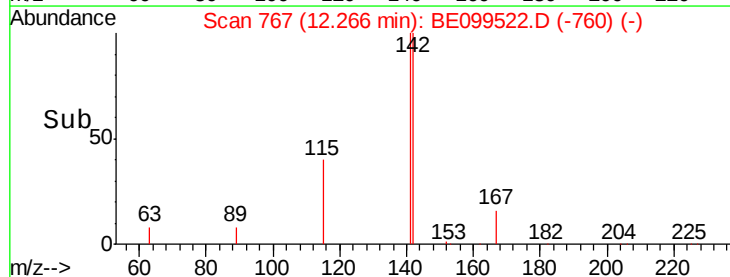
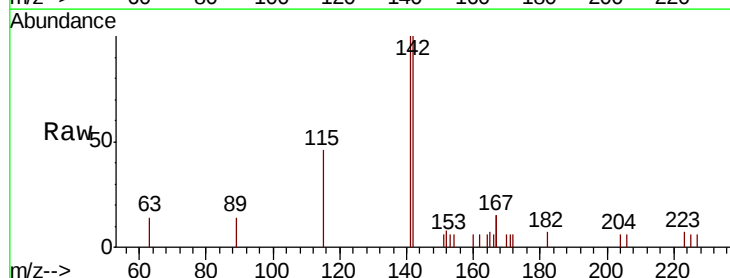
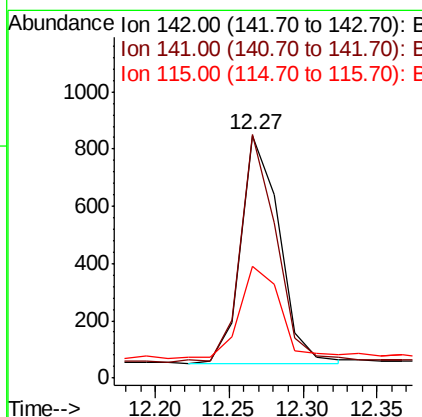
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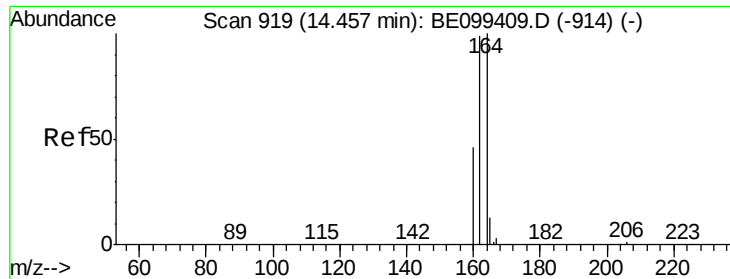
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#12
2-Methylnaphthalene
Concen: 0.070 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Tgt Ion:142 Resp: 1452
Ion Ratio Lower Upper
142 100
141 100.5 77.0 115.4
115 46.2 33.4 50.0





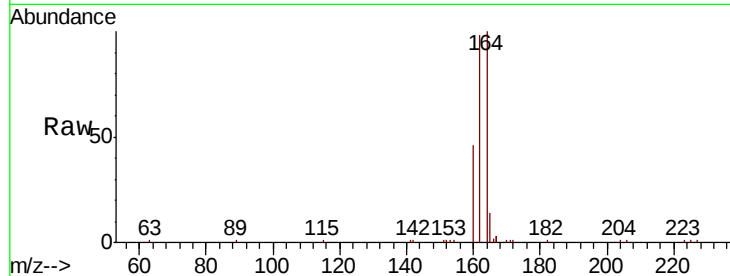
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.9	79.0	118.4
160	46.5	37.0	55.4

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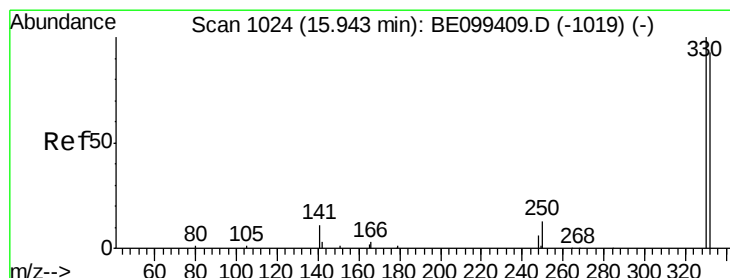
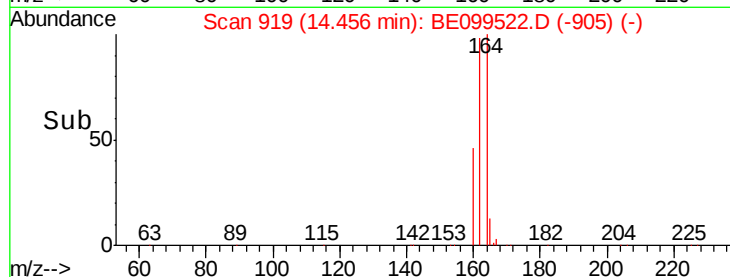
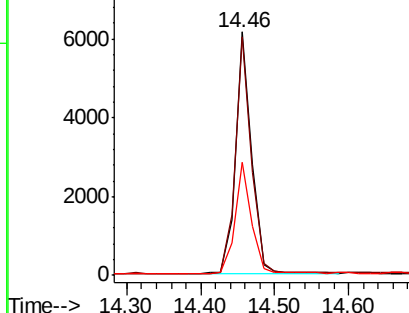


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.045 ng
RT: 15.94 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

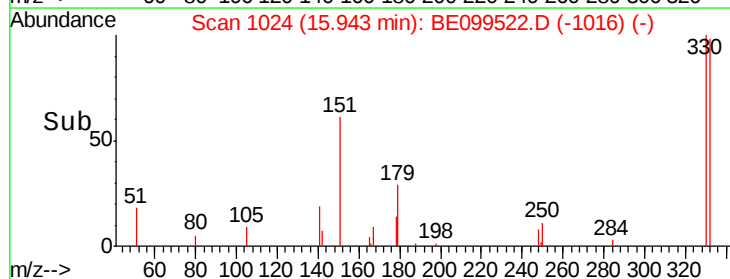
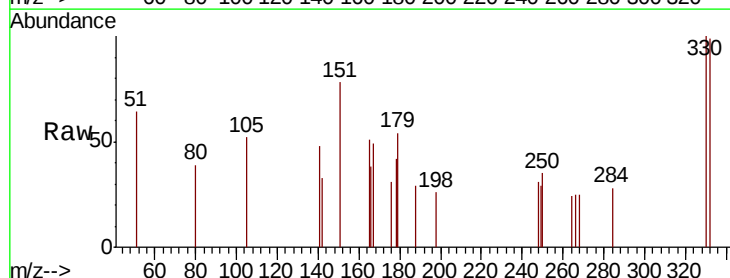
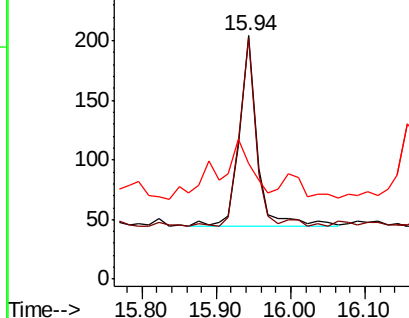
Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.7	71.5	107.3
141	44.3	24.0	36.0

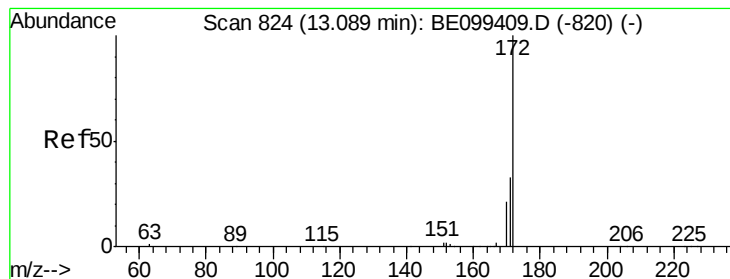
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





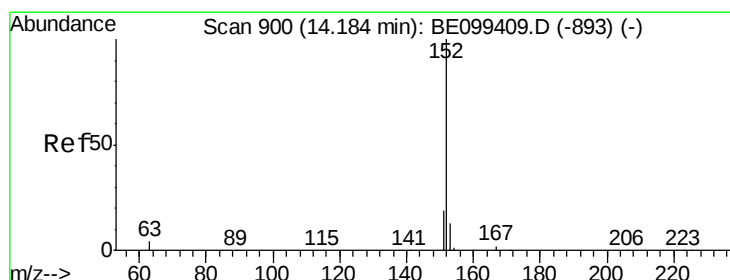
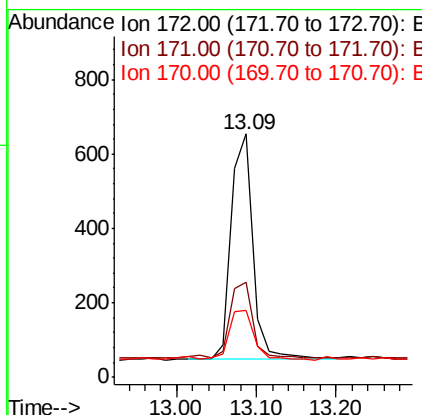
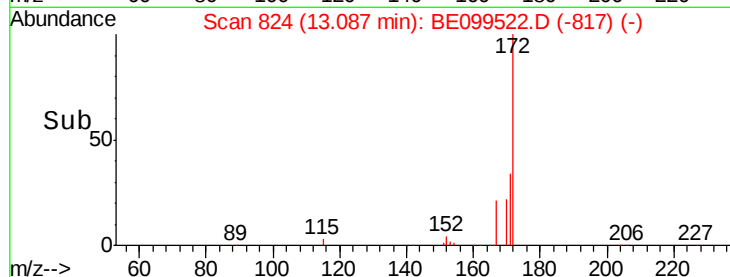
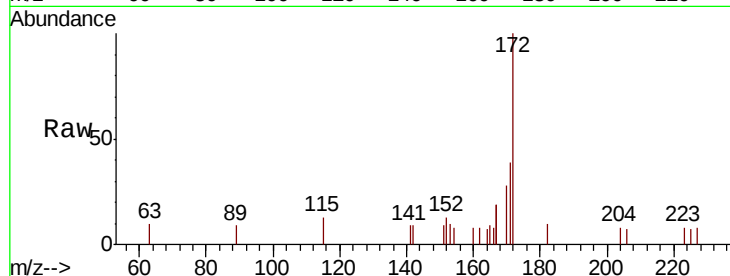
#15
2-Fluorobiphenyl
Concen: 0.033 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
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PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.1	26.6	39.8
170	27.5	17.0	25.6

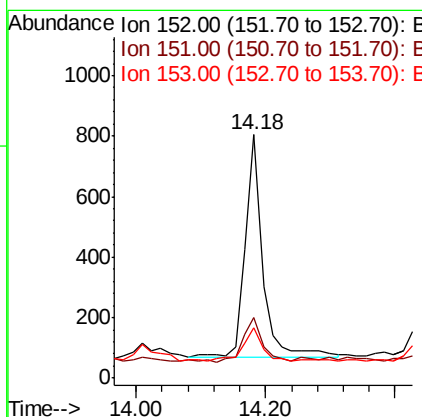
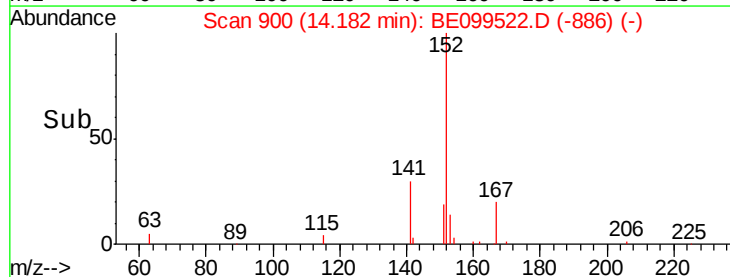
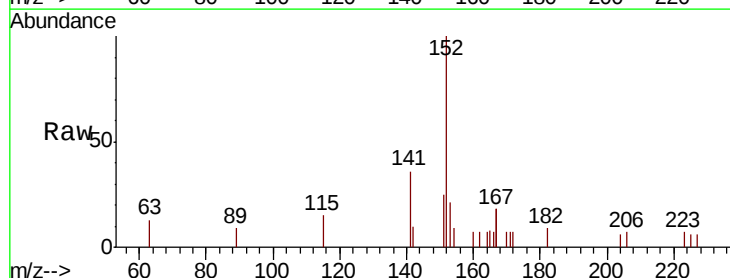
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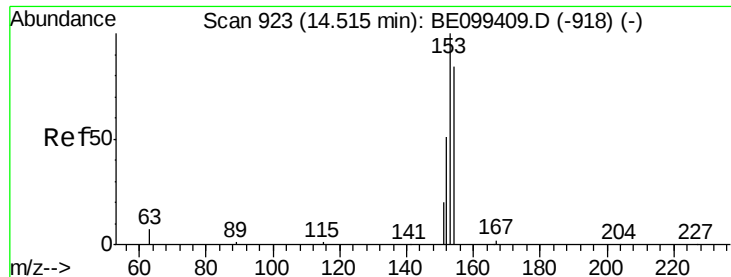
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#16
Acenaphthylene
Concen: 0.030 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.2	15.4	23.2
153	17.4	9.8	14.6





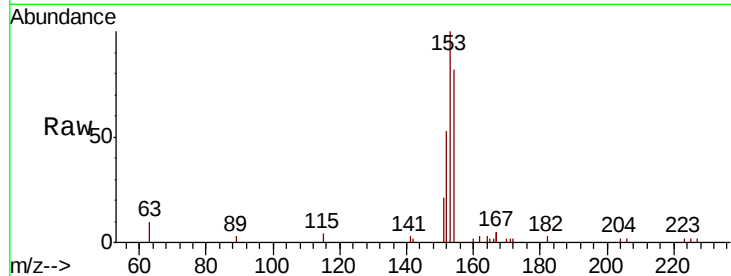
#17
Acenaphthene
Concen: 0.167 ng
RT: 14.51 min Scan# 923
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.4	92.6	138.8
152	57.7	45.8	68.8

Manual Integrations
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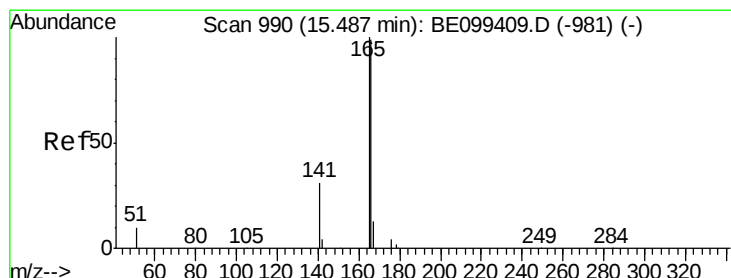
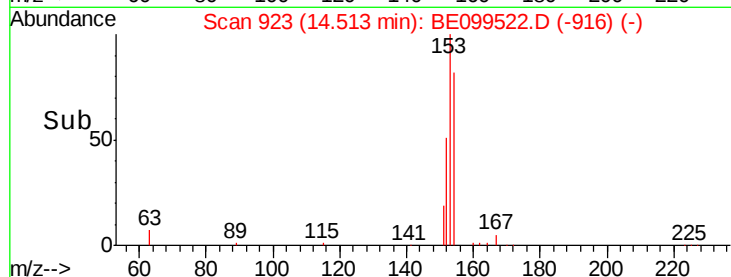
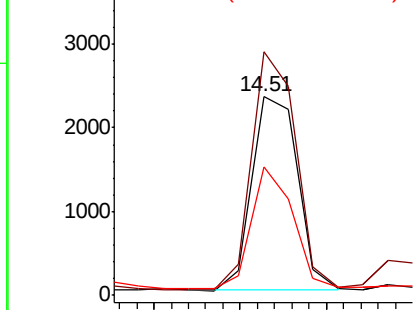


Abundance

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: 0.156 ng
RT: 15.49 min Scan# 990
Delta R.T. 0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

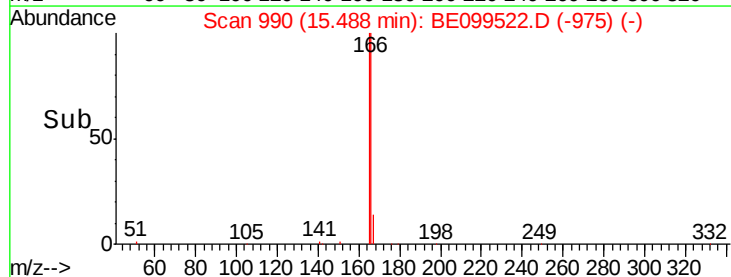
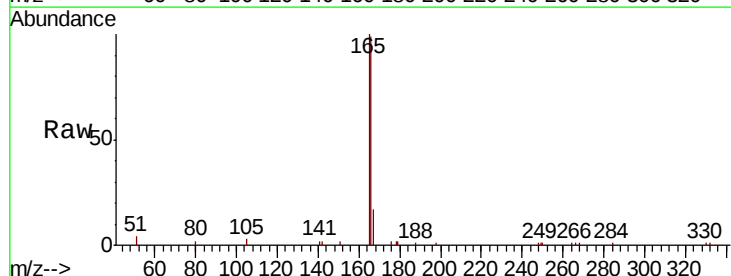
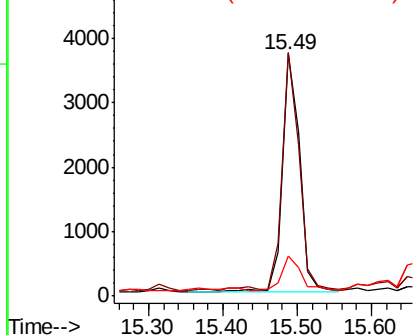
Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.5	80.3	120.5
167	16.3	10.7	16.1#

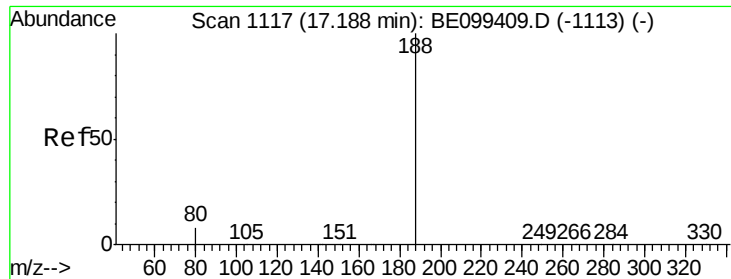
Abundance

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: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

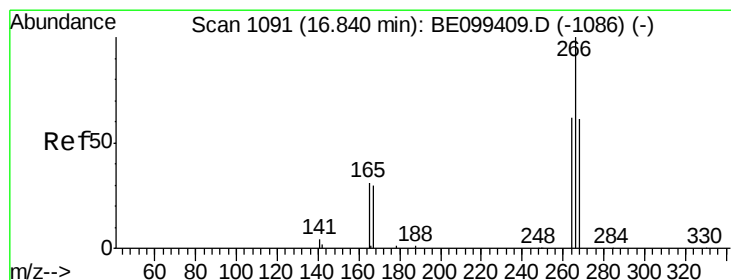
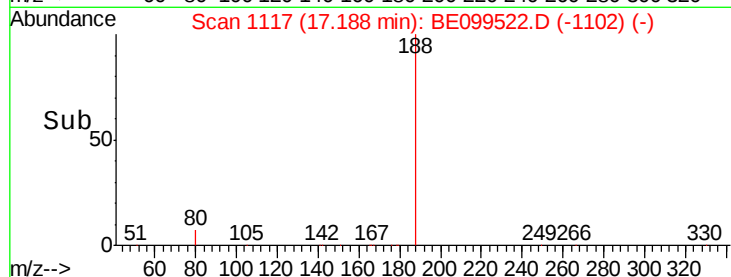
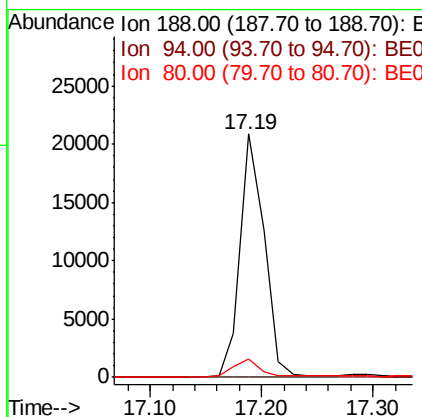
ClientSampleId :

PST-001-B188-042419DL

Tgt Ion:	188	Resp:	31302
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.4	6.7	10.1

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#22

Pentachlorophenol

Concen: 0.231 ng

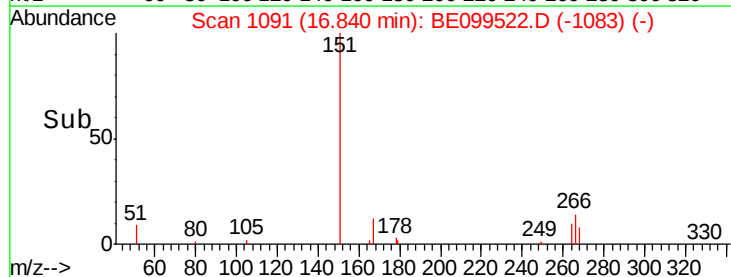
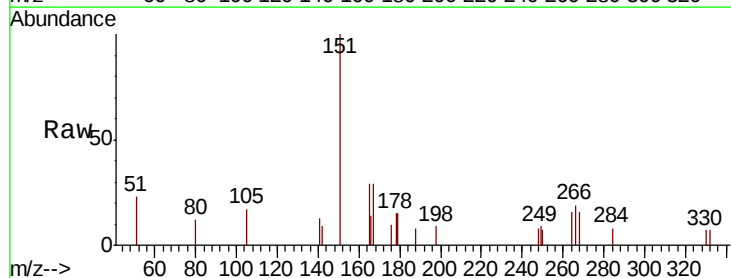
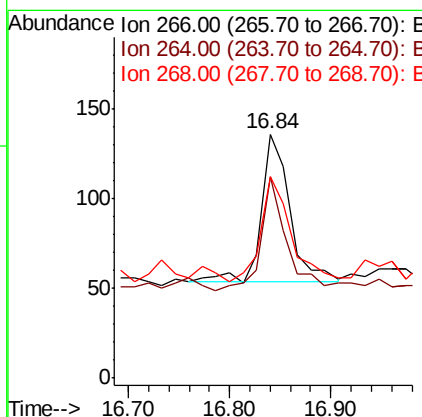
RT: 16.84 min Scan# 1091

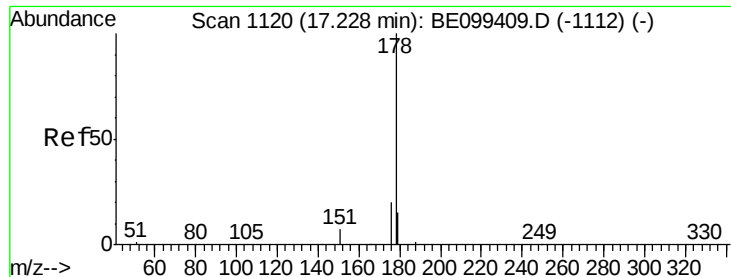
Delta R.T. 0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	266	Resp:	159
Ion Ratio	Lower	Upper	
266	100		
264	82.4	50.8	76.2#
268	82.4	50.5	75.7#





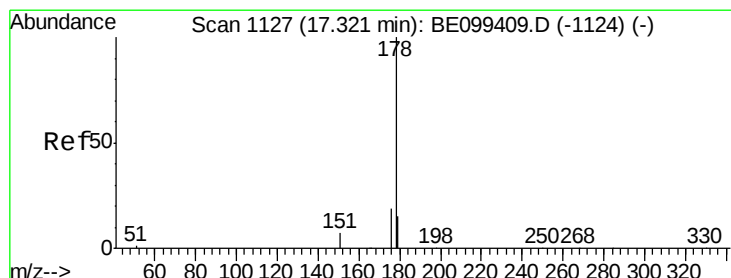
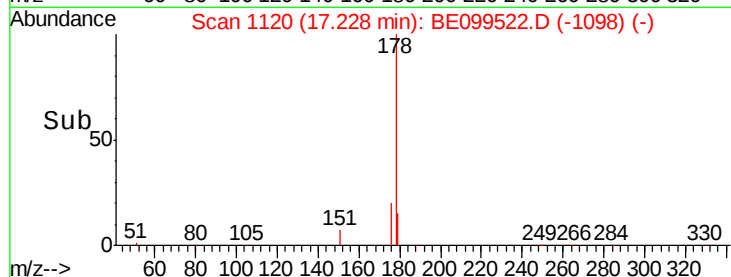
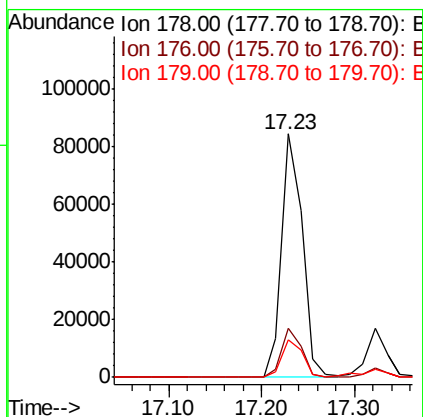
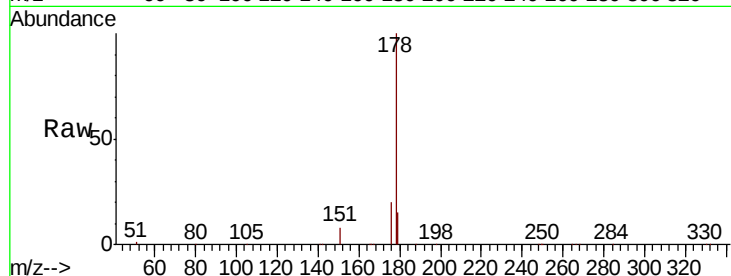
#23
Phenanthrene
Concen: 1.626 ng
RT: 17.23 min Scan# 1120
Delta R.T. 0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.4	12.0	18.0

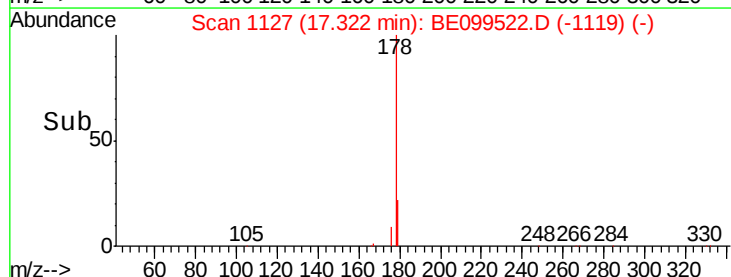
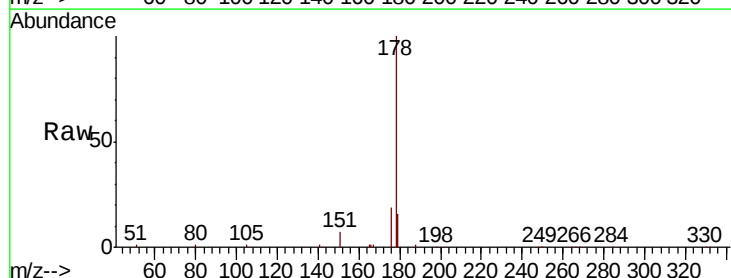
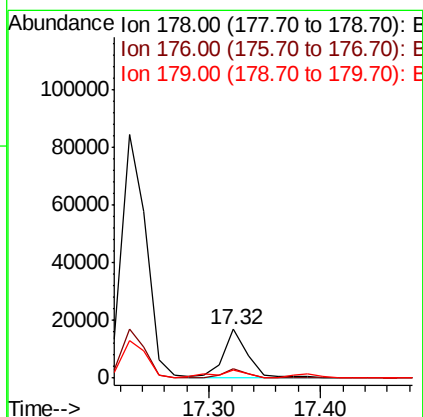
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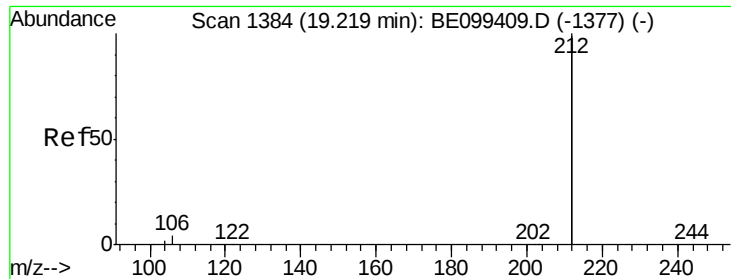
Sohil
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#24
Anthracene
Concen: 0.322 ng
RT: 17.32 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.9	22.3
179	20.2	11.9	17.9





#25

Fluoranthene-d10

Concen: 0.026 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

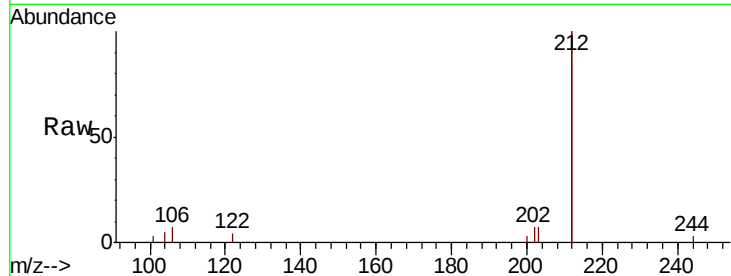
ClientSampleId :

PST-001-B188-042419DL

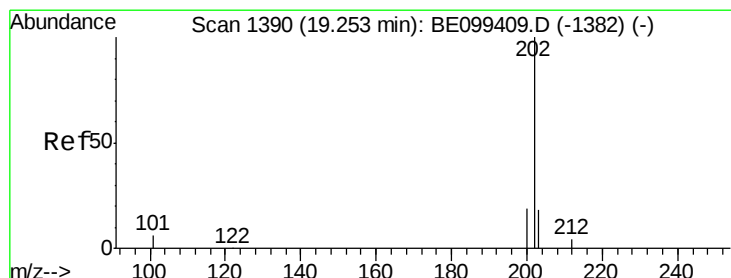
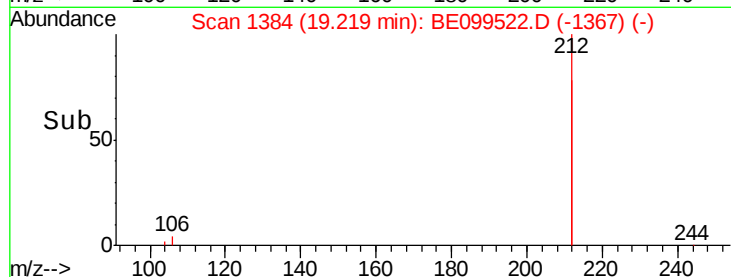
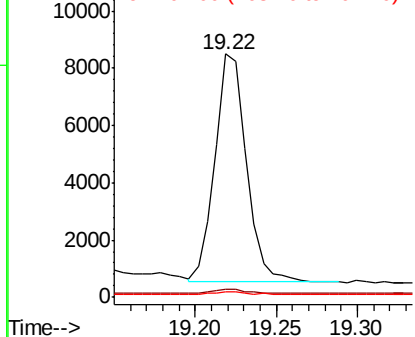
Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.3	1.5	2.3#
104	1.4	0.9	1.3#

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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: 1.376 ng

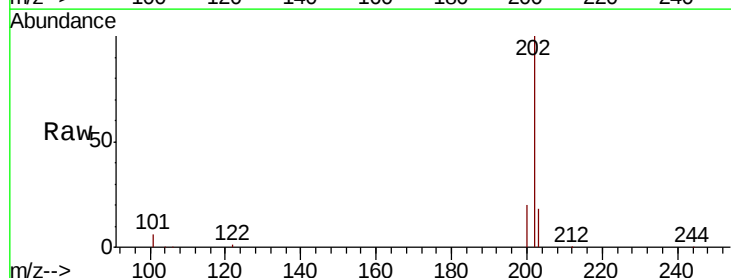
RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

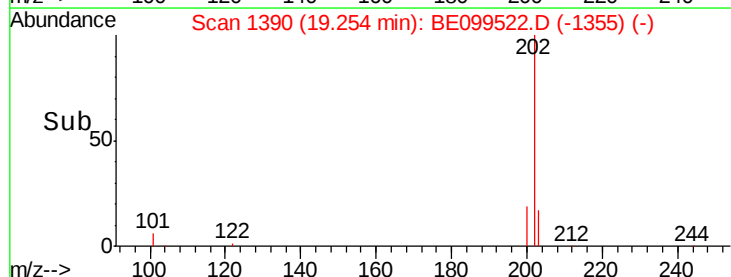
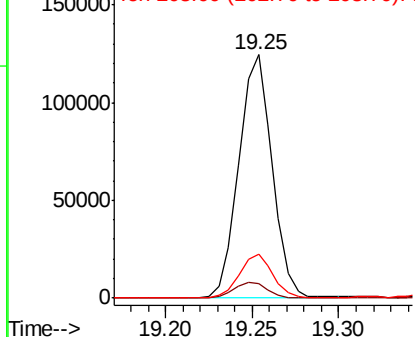
Lab File: BE099522.D

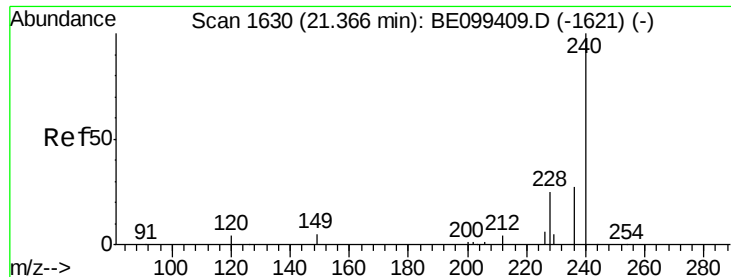
Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.4	8.0
203	17.6	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





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

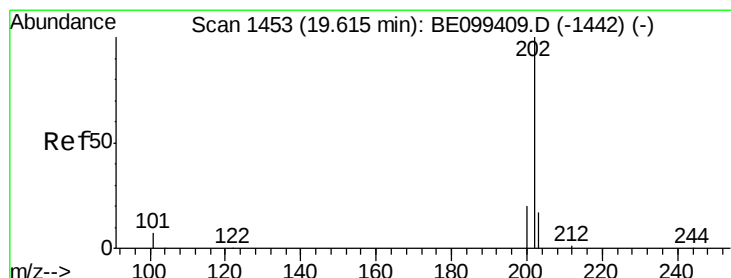
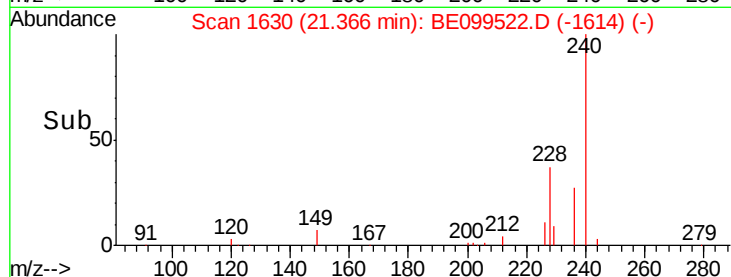
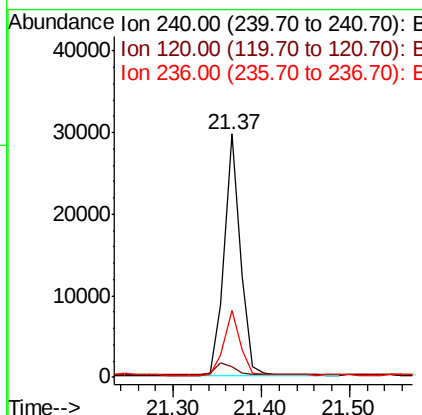
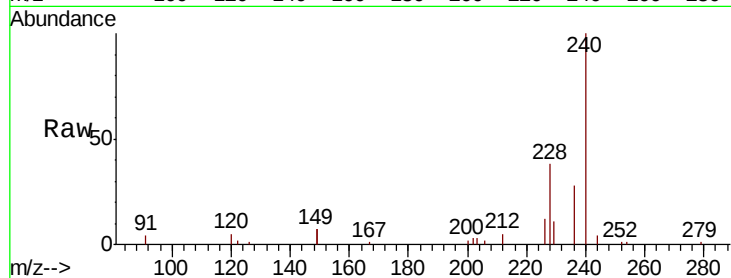
ClientSampleId :

PST-001-B188-042419DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	38063		
120	4.6	4.0	6.0	
236	27.6	22.0	33.0	

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#28

Pyrene

Concen: 1.481 ng

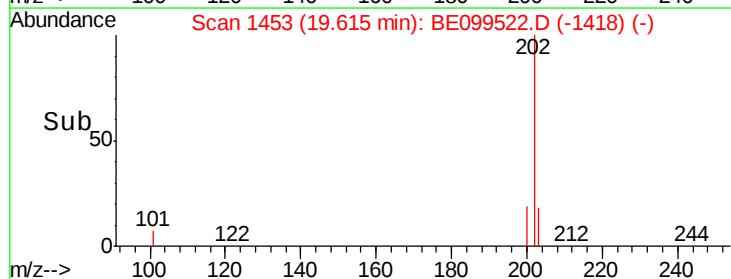
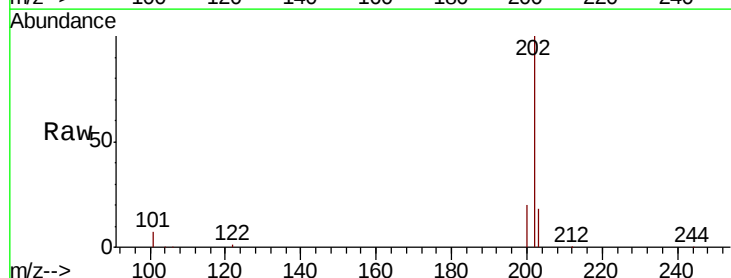
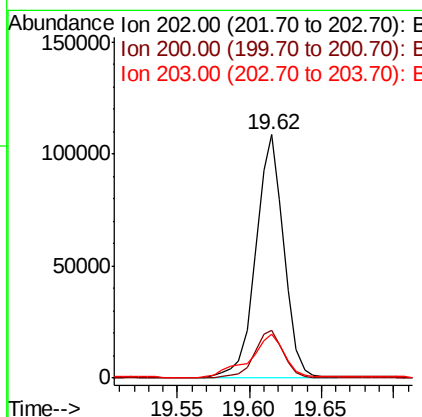
RT: 19.62 min Scan# 1453

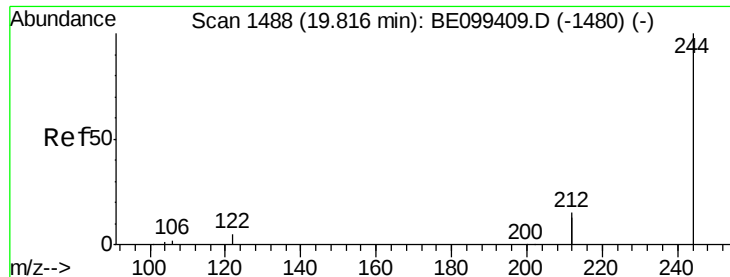
Delta R.T. 0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	146941		
200	19.9	15.7	23.5	
203	22.0	13.9	20.9	





#29

Terphenyl-d14

Concen: 0.048 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Instrument :

BNA_E

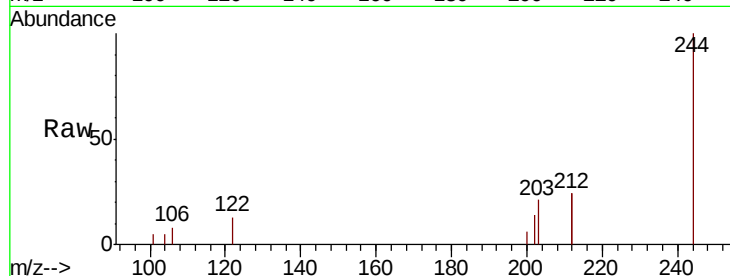
ClientSampleId :

PST-001-B188-042419DL

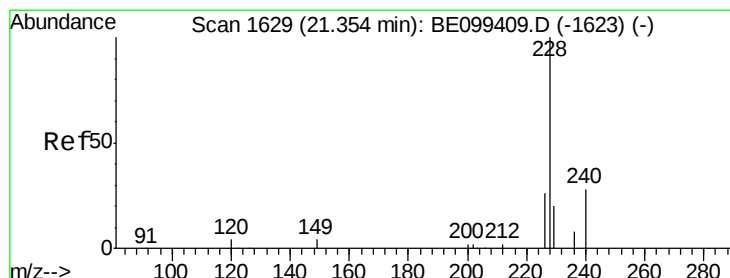
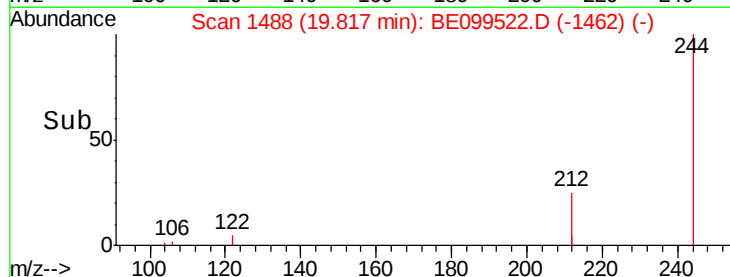
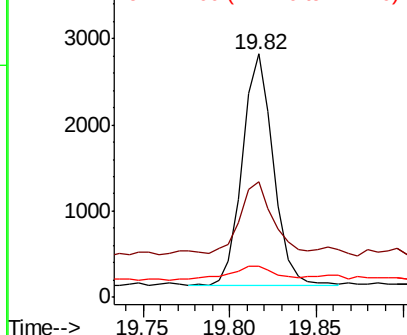
Tgt Ion:	244	Resp:	3323
Ion Ratio	Lower	Upper	
244	100		
212	47.7	23.2	34.8#
122	12.5	4.2	6.4#

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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: 0.721 ng

RT: 21.35 min Scan# 1629

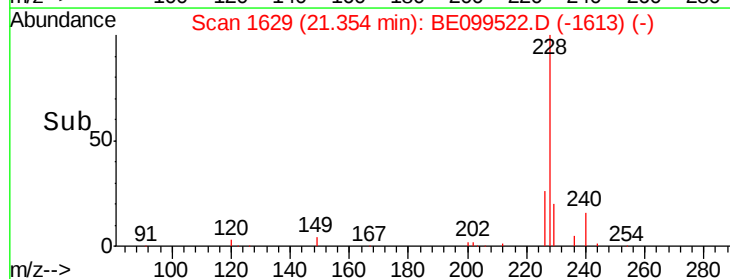
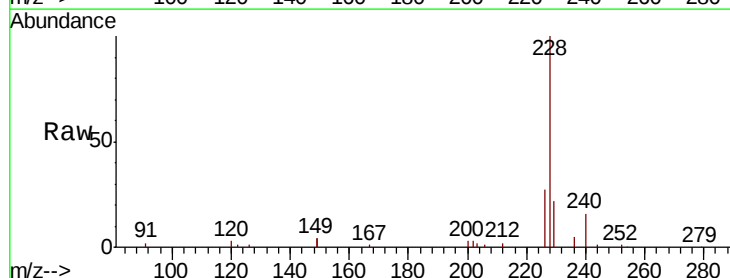
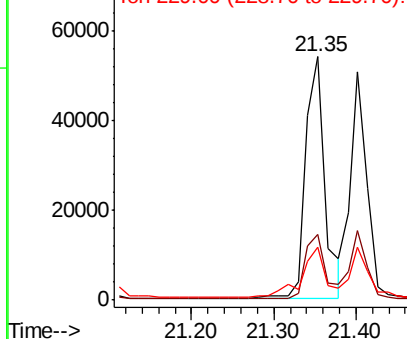
Delta R.T. -0.00 min

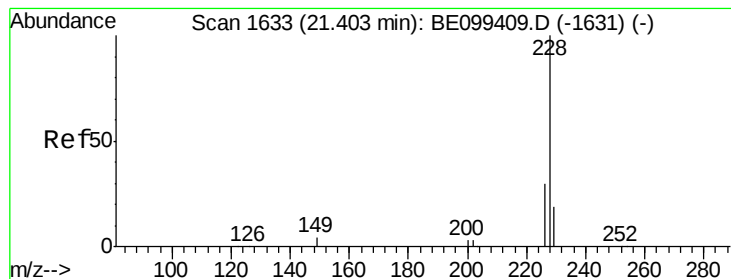
Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	228	Resp:	87477
Ion Ratio	Lower	Upper	
228	100		
226	26.9	21.0	31.6
229	21.6	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: 0.596 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099522.D

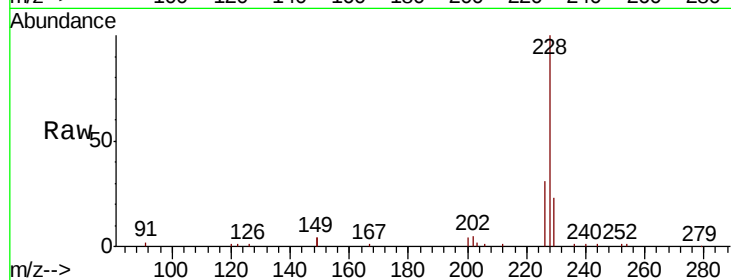
Acq: 3 May 2019 9:07

Instrument :

BNA_E

ClientSampleId :

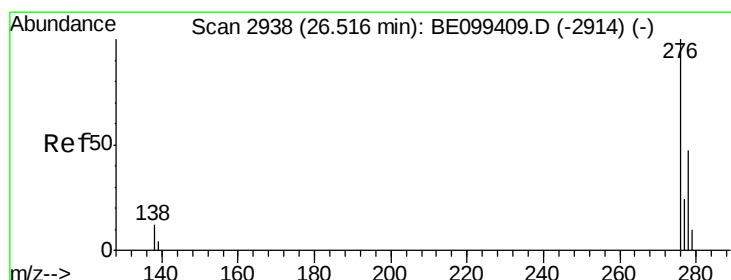
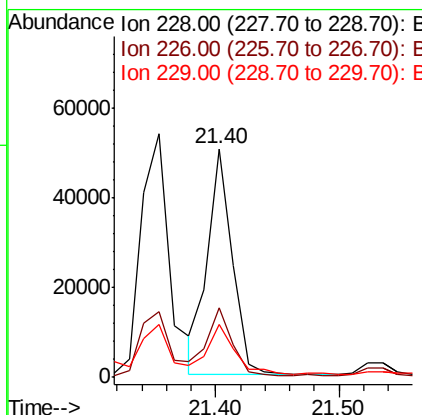
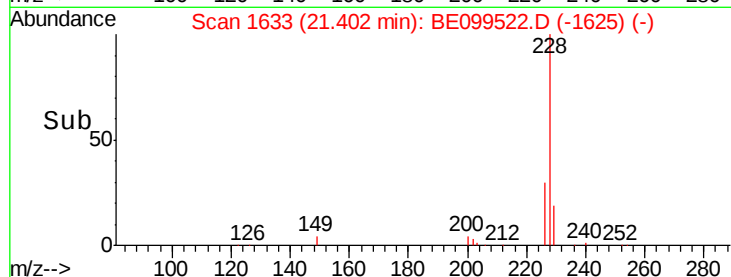
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Tgt Ion:	228	Resp:	70680
Ion Ratio	Lower	Upper	
228	100		
226	30.7	24.0	36.0
229	22.9	15.8	23.8

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.234 ng

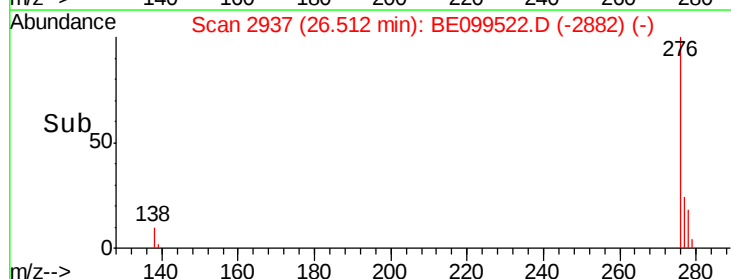
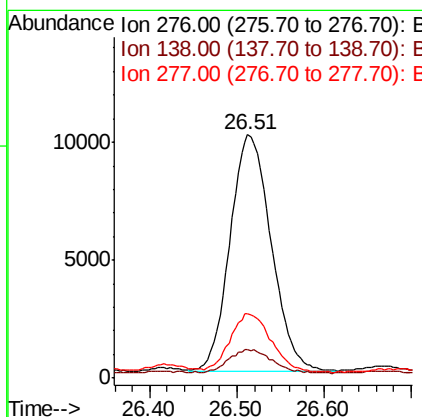
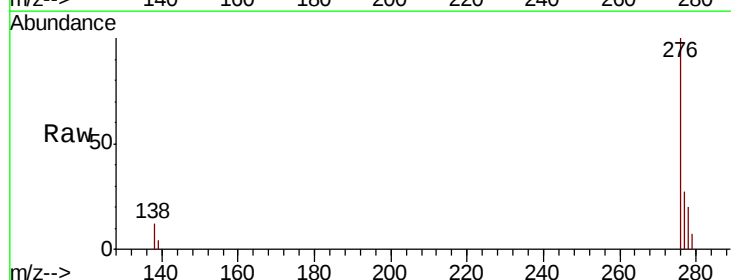
RT: 26.51 min Scan# 2937

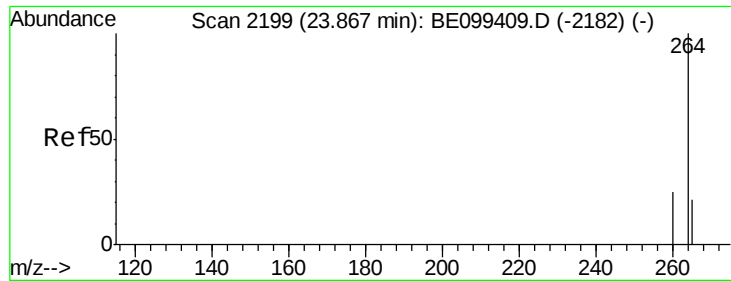
Delta R.T. -0.00 min

Lab File: BE099522.D

Acq: 3 May 2019 9:07

Tgt Ion:	276	Resp:	32814
Ion Ratio	Lower	Upper	
276	100		
138	10.2	10.2	15.2
277	24.8	19.2	28.8





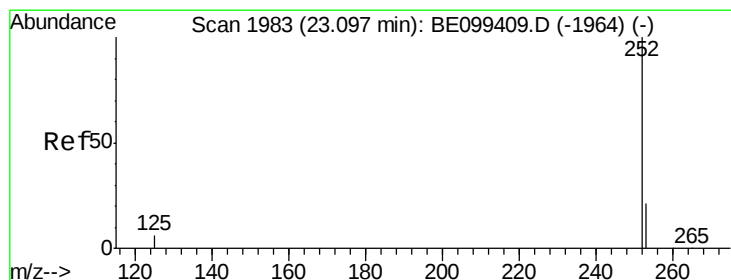
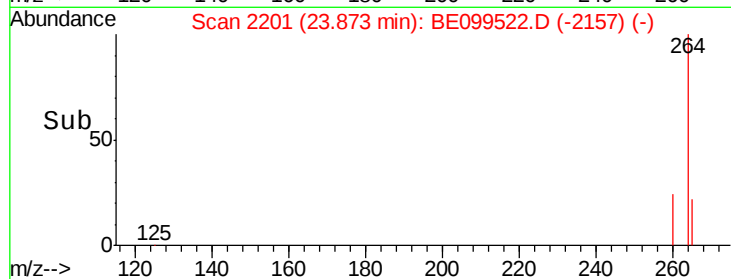
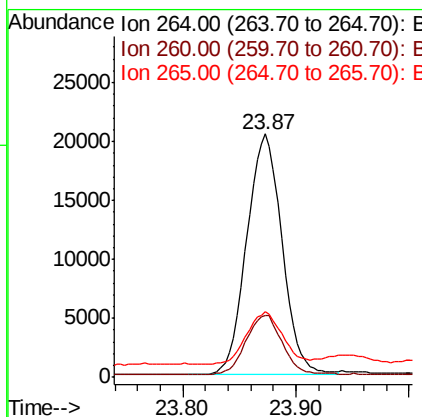
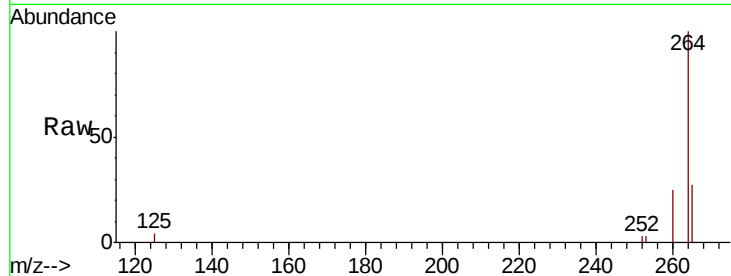
#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.87 min Scan# 2201
 Delta R.T. 0.01 min
 Lab File: BE099522.D
 Acq: 3 May 2019 9:07

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B188-042419DL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	44397		
260	25.4	20.2	30.2	
265	26.9	21.3	31.9	

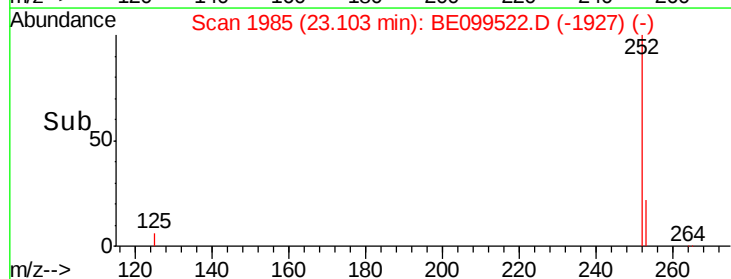
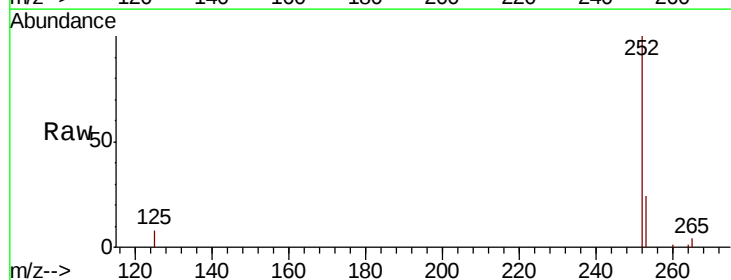
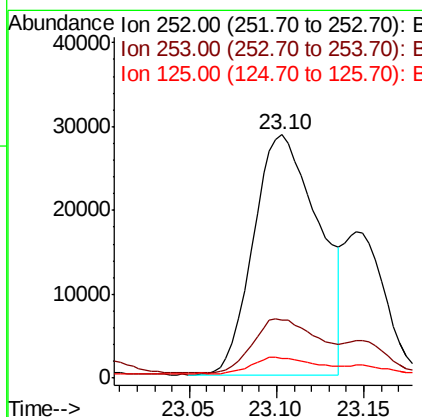
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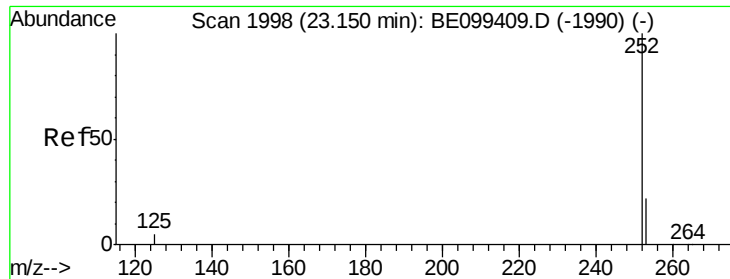
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#35
 Benzo(b)fluoranthene
 Concen: 0.580 ng
 RT: 23.10 min Scan# 1985
 Delta R.T. 0.01 min
 Lab File: BE099522.D
 Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	74293		
253	24.0	18.1	27.1	
125	8.2	5.6	8.4	





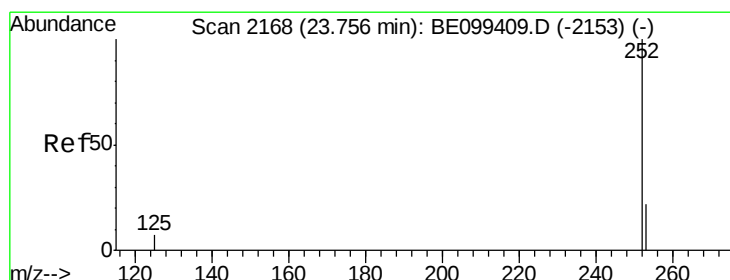
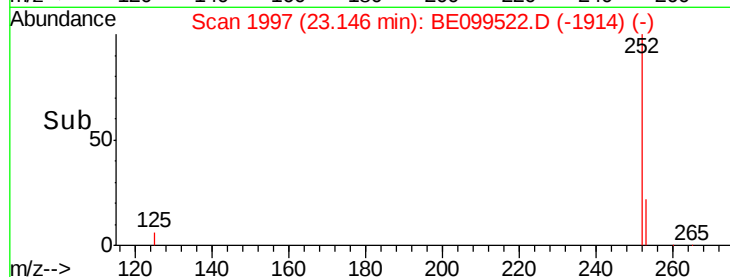
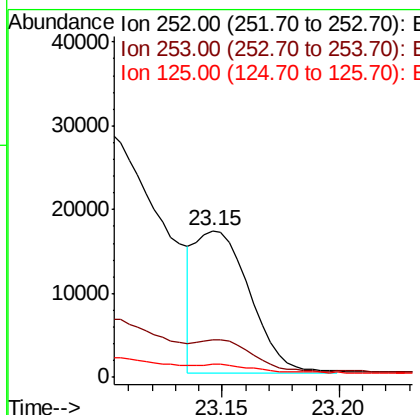
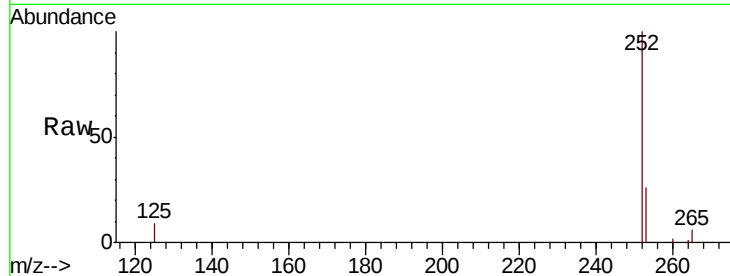
#36
Benzo(k)fluoranthene
Concen: 0.226 ng m
RT: 23.15 min Scan# 1997
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.4	27.6
125	8.6	5.0	7.4

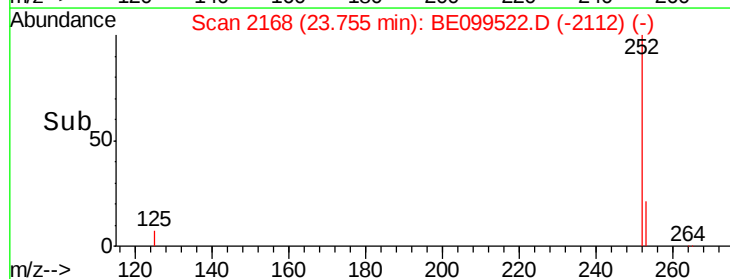
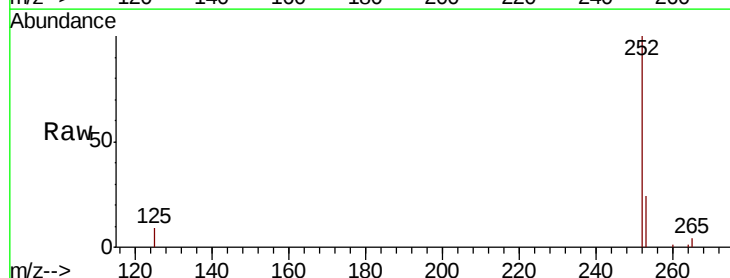
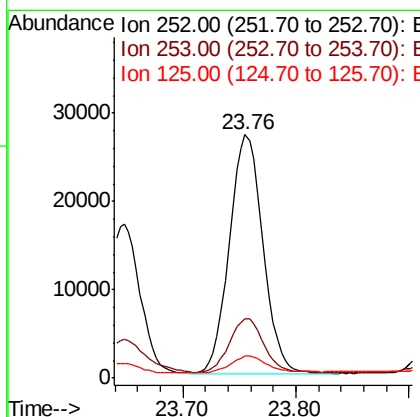
Manual Integrations
APPROVED

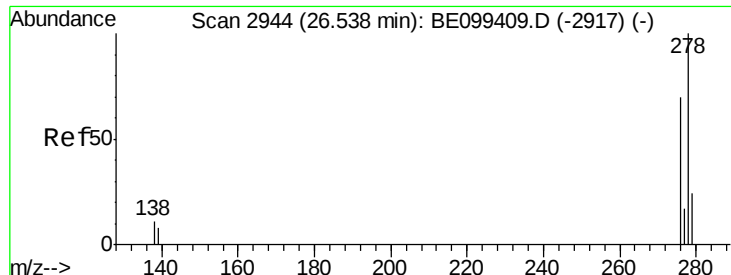
Sohil
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#37
Benzo(a)pyrene
Concen: 0.460 ng
RT: 23.76 min Scan# 2168
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.9	28.3
125	9.1	6.7	10.1





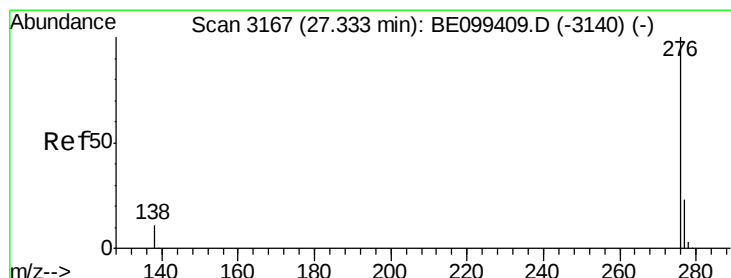
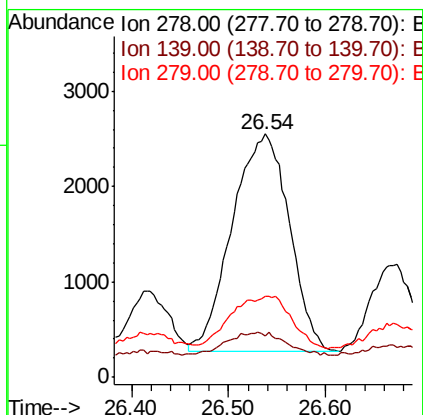
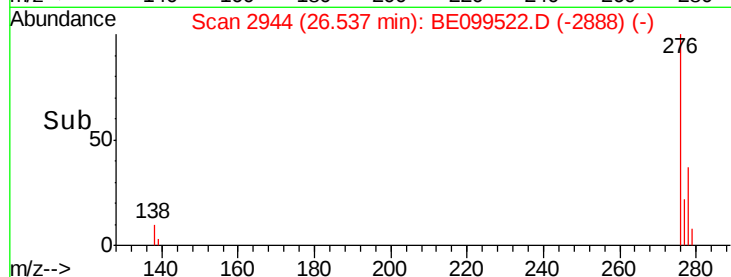
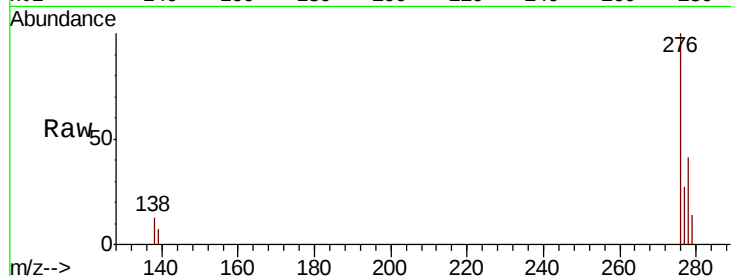
#38
Dibenzo(a,h)anthracene
Concen: 0.075 ng
RT: 26.54 min Scan# 2944
Delta R.T. -0.00 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.8	7.7	11.5#
279	33.5	20.2	30.2#

Manual Integrations
APPROVED

Sohil
5/3/2019 4:24:26 PM



#39
Benzo(g,h,i)perylene
Concen: 0.246 ng
RT: 27.34 min Scan# 3169
Delta R.T. 0.01 min
Lab File: BE099522.D
Acq: 3 May 2019 9:07

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.5	29.3
138	12.2	9.6	14.4

