

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
 Data File : BE099515.D
 Acq On : 3 May 2019 4:56
 Operator : JU/SJ
 Sample : K2587-13
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW023-042319

Manual Integrations
 APPROVED

Sohil
 5/3/2019 4:24:11 PM

Quant Time: May 03 08:28:10 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	2424	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	8608	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6404	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19690	0.40	ng	0.00
27) Chrysene-d12	21.37	240	25914	0.40	ng	0.00
34) Perylene-d12	23.87	264	29754	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	1584	0.24	ng	0.00
5) Phenol-d6	6.97	99	2177	0.24	ng	0.00
8) Nitrobenzene-d5	8.96	82	1748	0.22	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	3255	0.21	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1032	0.26	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	4787	0.20	ng	-0.01
25) Fluoranthene-d10	19.22	212	53254	0.20	ng	0.00
29) Terphenyl-d14	19.82	244	11746	0.25	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	4005	0.043	ng	# 95
12) 2-Methylnaphthalene	12.27	142	650	0.040	ng	# 90
16) Acenaphthylene	14.18	152	4186	0.134	ng	98
17) Acenaphthene	14.51	154	541	0.030	ng	# 89
18) Fluorene	15.49	166	1211	0.046	ng	# 89
23) Phenanthrene	17.23	178	57844	1.138	ng	100
24) Anthracene	17.32	178	5355	0.111	ng	# 93
26) Fluoranthene	19.25	202	206082	2.708	ng	100
28) Pyrene	19.61	202	193050	2.858	ng	# 96
30) Benzo(a)anthracene	21.35	228	102444	1.241	ng	96
31) Chrysene	21.40	228	137268	1.699	ng	98
32) Bis(2-ethylhexyl)phthalate	21.27	149	29571	0.182	ng	99
33) Indeno(1,2,3-cd)pyrene	26.52	276	87523	0.917	ng	97
35) Benzo(b)fluoranthene	23.10	252	168209	1.961	ng	99
36) Benzo(k)fluoranthene	23.15	252	66791m	0.807	ng	
37) Benzo(a)pyrene	23.76	252	109661m	1.352	ng	
38) Dibenzo(a,h)anthracene	26.53	278	21303	0.257	ng	# 94
39) Benzo(g,h,i)perylene	27.34	276	86223	1.037	ng	99

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

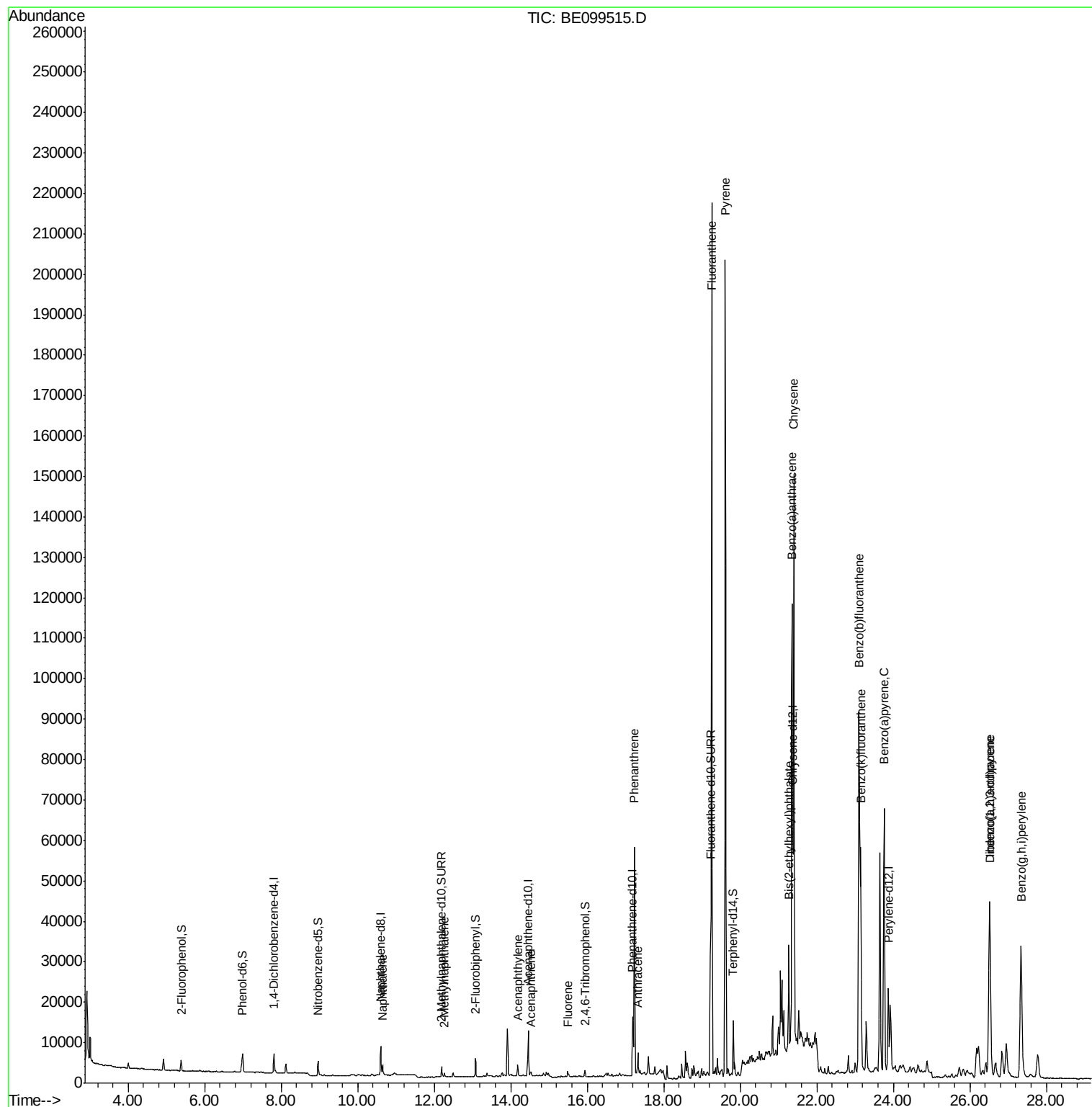
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
Data File : BE099515.D
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Sample : K2587-13
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ALS Vial : 22 Sample Multiplier: 1

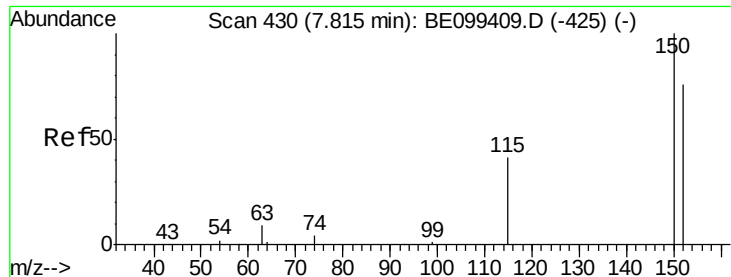
Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Manual Integrations
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Quant Time: May 03 08:28:10 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M
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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: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

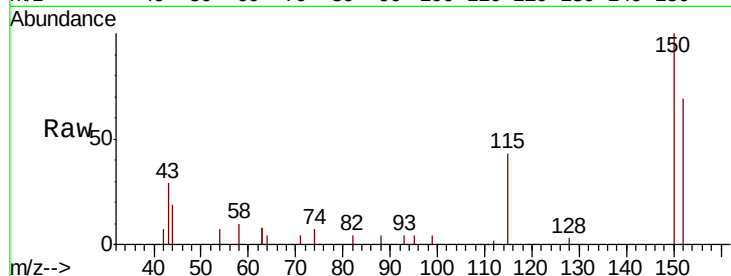
ClientSampleId :

PST-004-SW023-042319

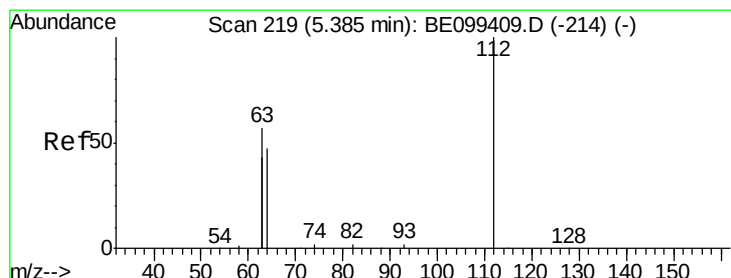
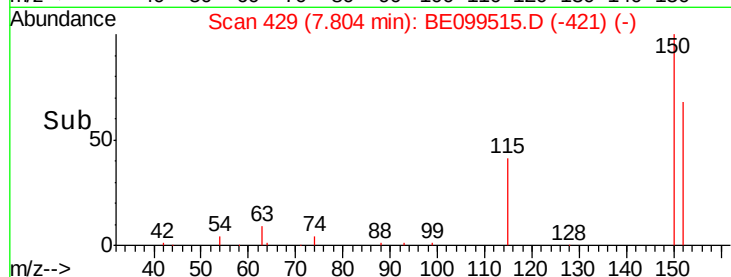
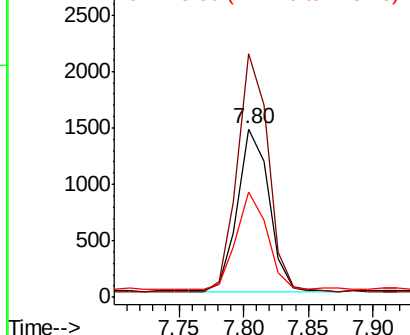
Tgt Ion:	152	Resp:	2424
Ion Ratio	Lower	Upper	
152	100		
150	144.7	104.8	157.2
115	62.8	46.6	69.8

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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: 0.236 ng

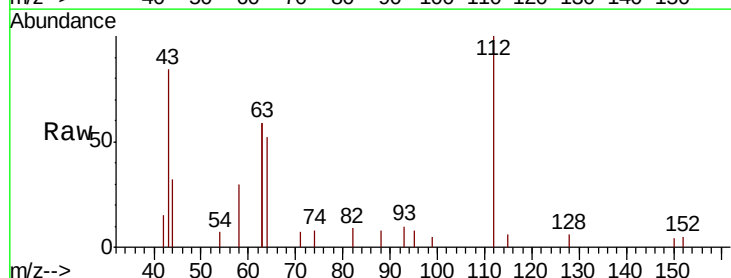
RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

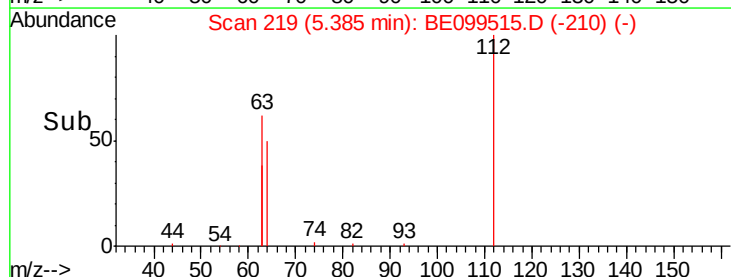
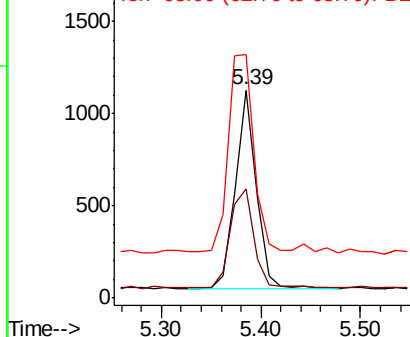
Lab File: BE099515.D

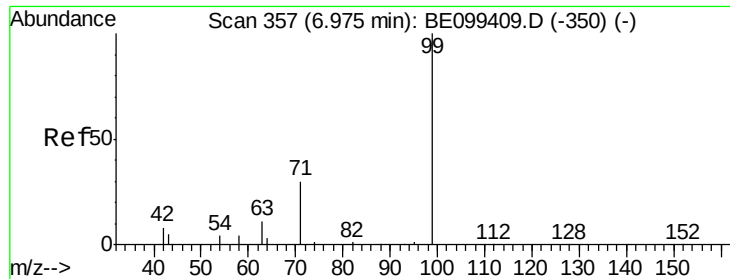
Acq: 3 May 2019 4:56

Tgt Ion:	112	Resp:	1584
Ion Ratio	Lower	Upper	
112	100		
64	54.0	47.4	71.0
63	118.1	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: 0.244 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

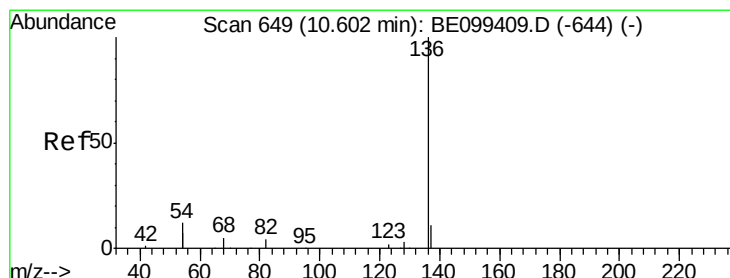
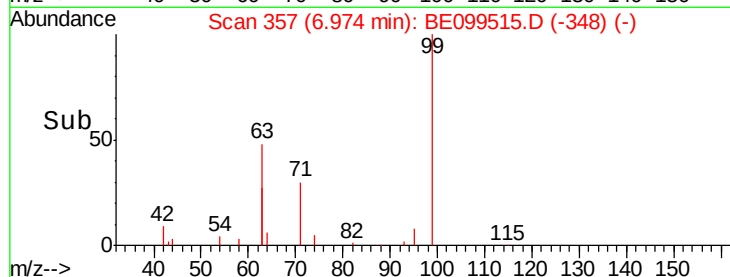
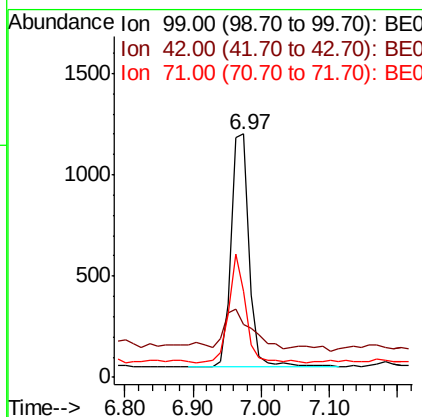
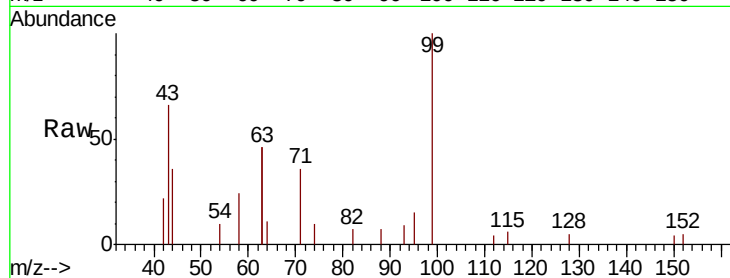
ClientSampleId :

PST-004-SW023-042319

Tgt Ion:	99	Resp:	2177
Ion	Ratio	Lower	Upper
99	100		
42	22.6	14.9	22.3#
71	43.0	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

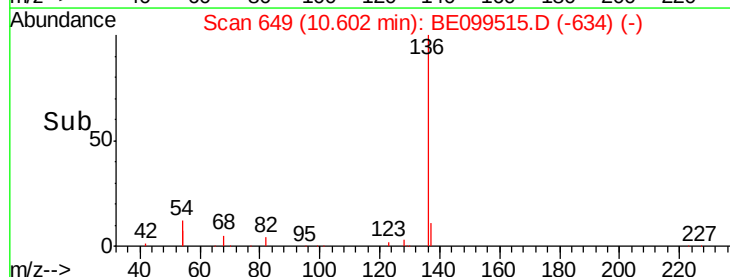
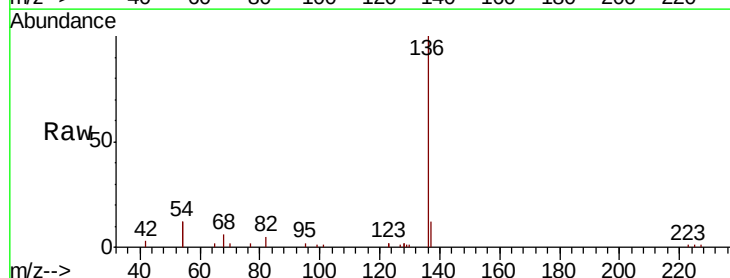
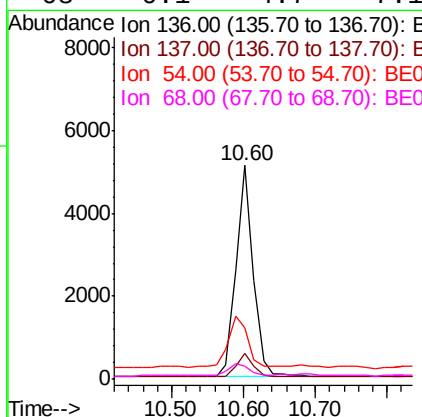
RT: 10.60 min Scan# 649

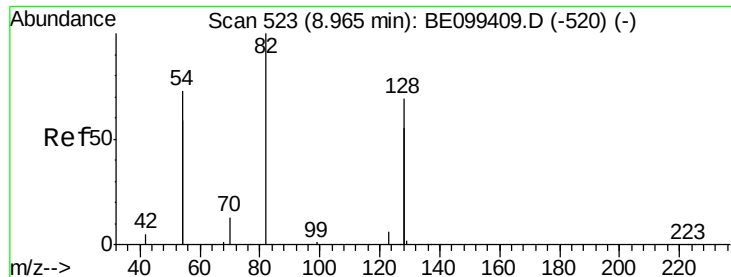
Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Tgt Ion:	136	Resp:	8608
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.8	14.8
54	24.1	18.5	27.7
68	6.1	4.7	7.1





#8

Nitrobenzene-d5

Concen: 0.217 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

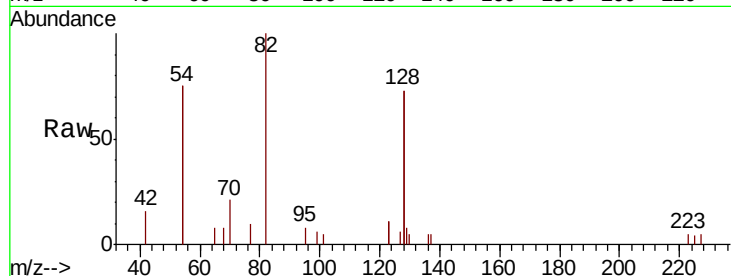
ClientSampleId :

PST-004-SW023-042319

Tgt Ion:	82	Resp:	1748
Ion Ratio	Lower	Upper	
82	100		
128	145.6	107.0	160.4
54	149.5	113.1	169.7

Manual Integrations
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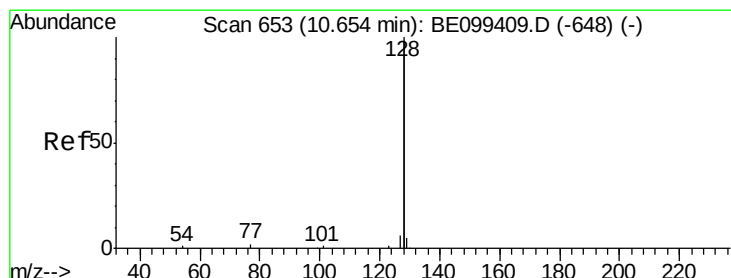
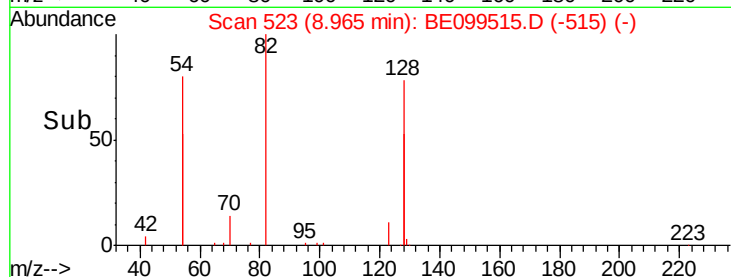
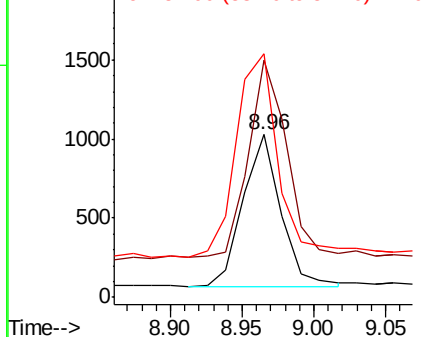


Abundance

Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.043 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

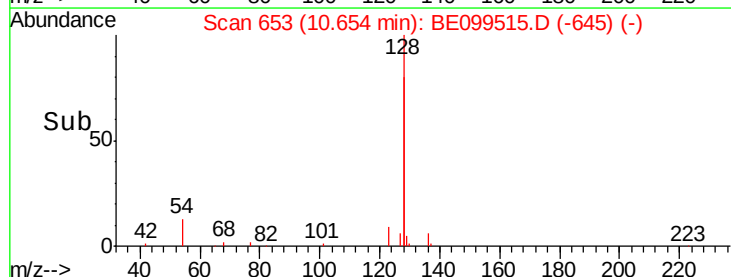
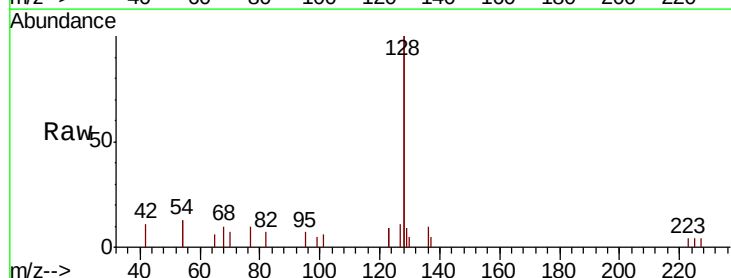
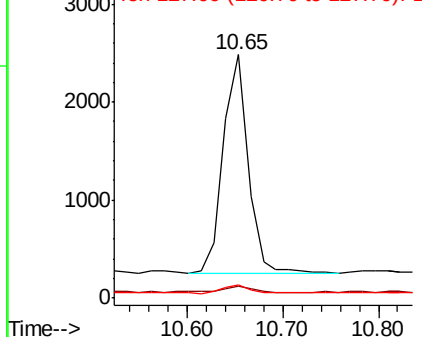
Tgt Ion:	128	Resp:	4005
Ion Ratio	Lower	Upper	
128	100		
129	4.7	2.4	3.6#
127	5.3	2.8	4.2#

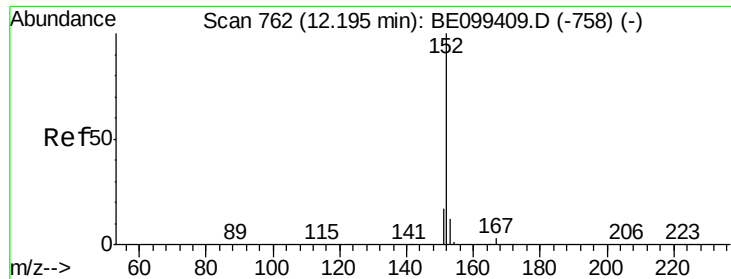
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





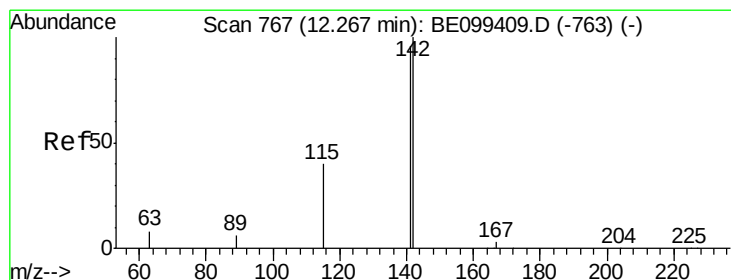
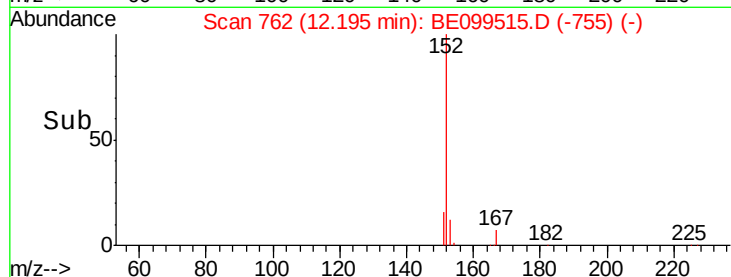
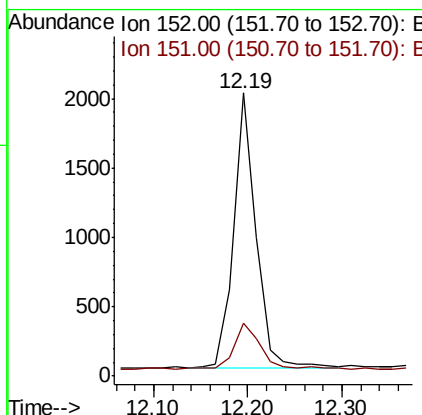
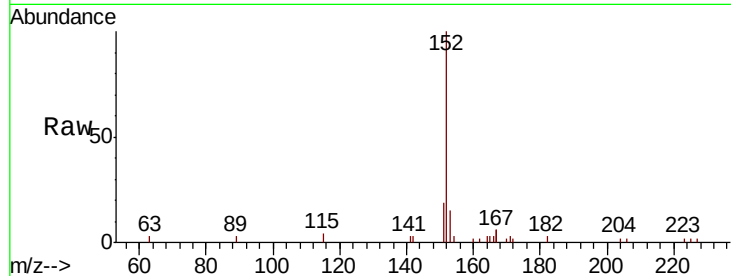
#11
2-Methylnaphthalene-d10
Concen: 0.210 ng
RT: 12.19 min Scan# 762
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.5	23.3

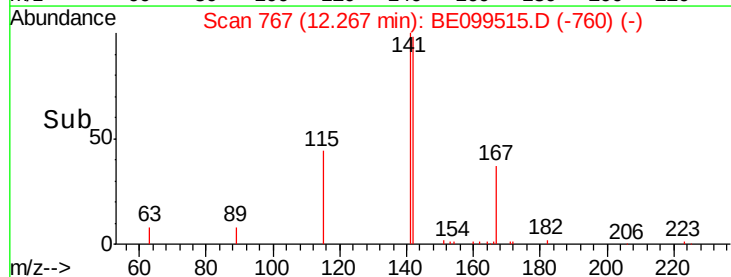
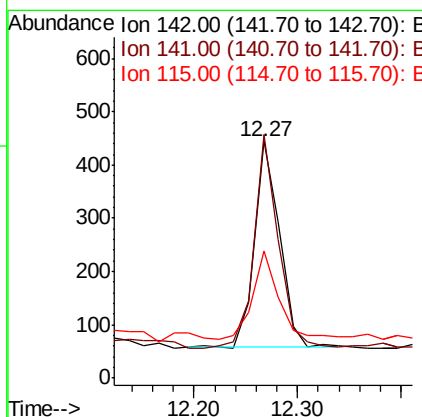
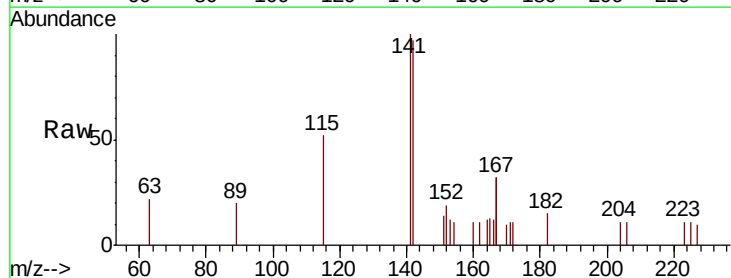
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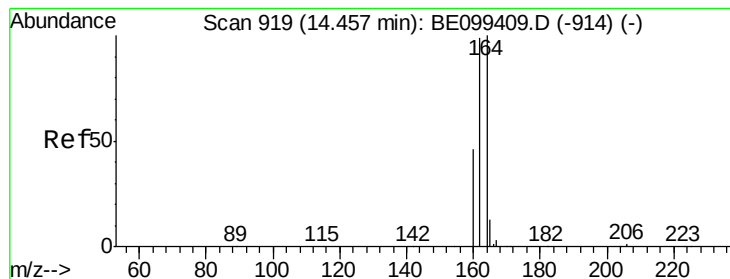
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#12
2-Methylnaphthalene
Concen: 0.040 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	102.7	77.0	115.4
115	53.5	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: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

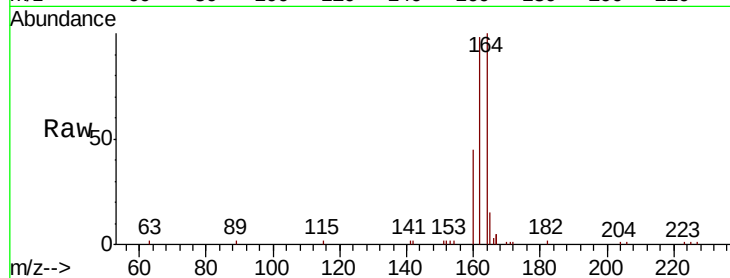
ClientSampleId :

PST-004-SW023-042319

Tgt Ion:	164	Resp:	6404
Ion Ratio	Lower	Upper	
164	100		
162	98.0	79.0	118.4
160	45.4	37.0	55.4

Manual Integrations
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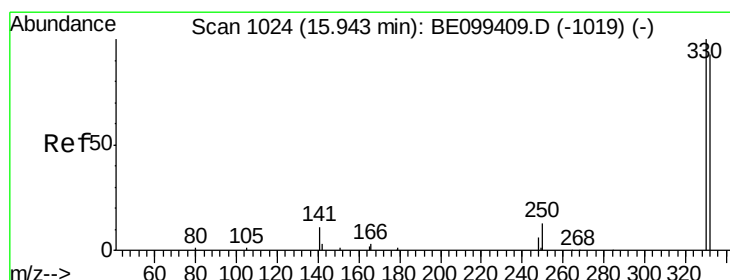
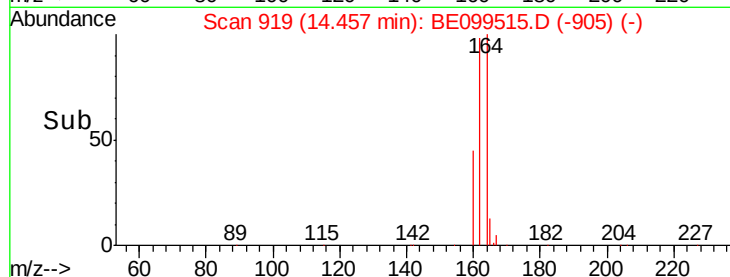
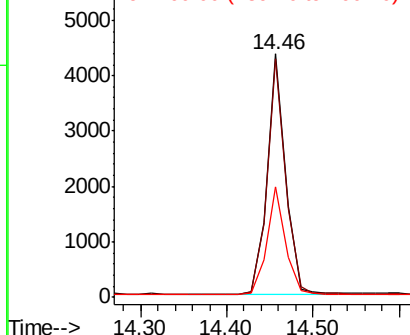


Abundance

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: 0.256 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

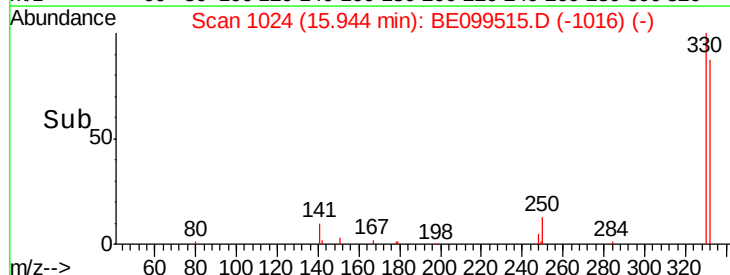
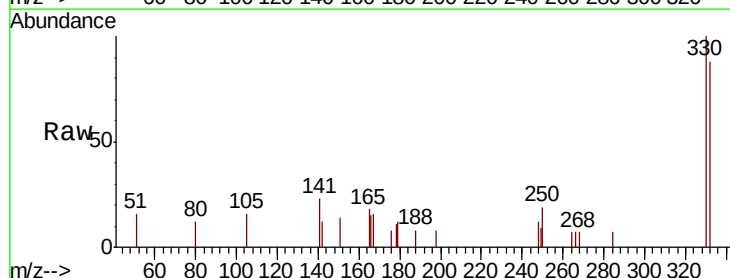
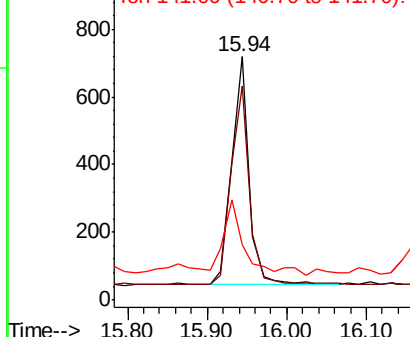
Tgt Ion:	330	Resp:	1032
Ion Ratio	Lower	Upper	
330	100		
332	91.8	71.5	107.3
141	41.4	24.0	36.0#

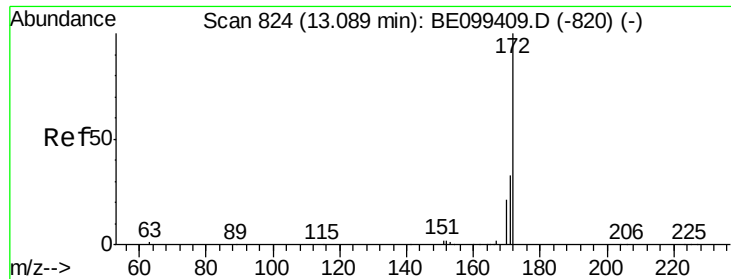
Abundance

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





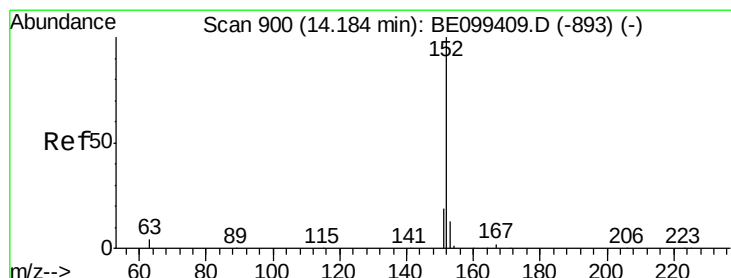
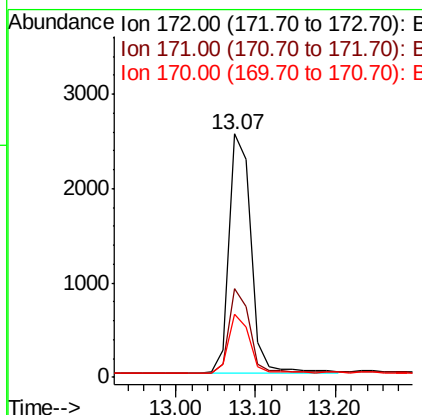
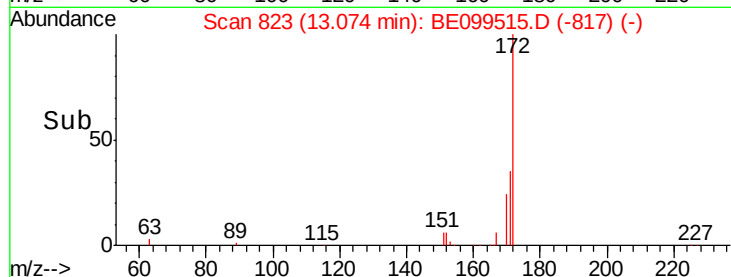
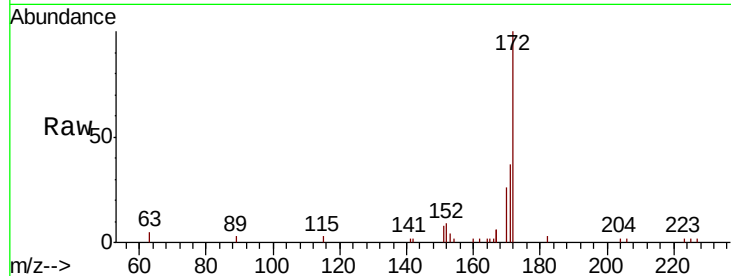
#15
2-Fluorobiphenyl
Concen: 0.196 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	26.6	39.8
170	25.7	17.0	25.6

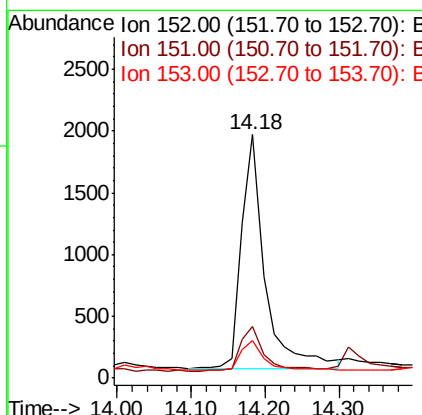
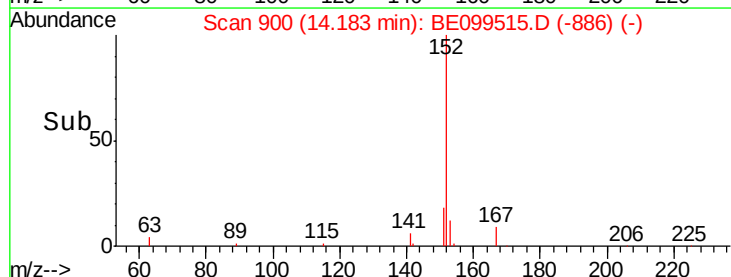
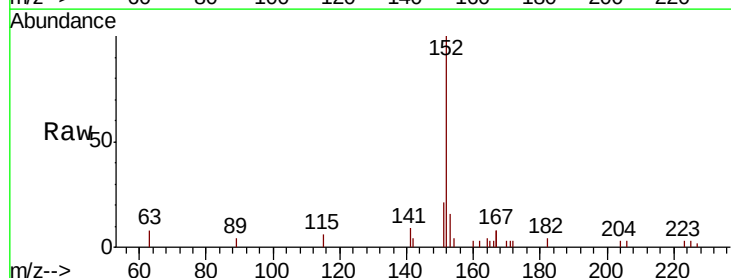
Manual Integrations
APPROVED

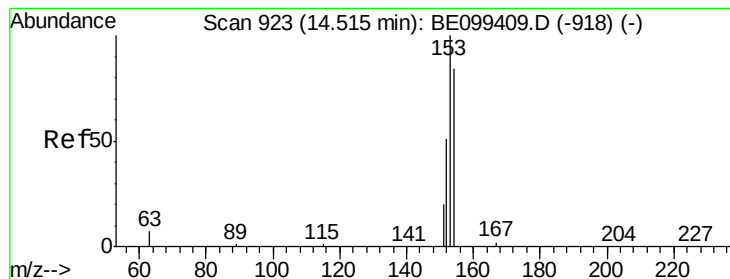
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#16
Acenaphthylene
Concen: 0.134 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.4	23.2
153	13.0	9.8	14.6





#17

Acenaphthene

Concen: 0.030 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

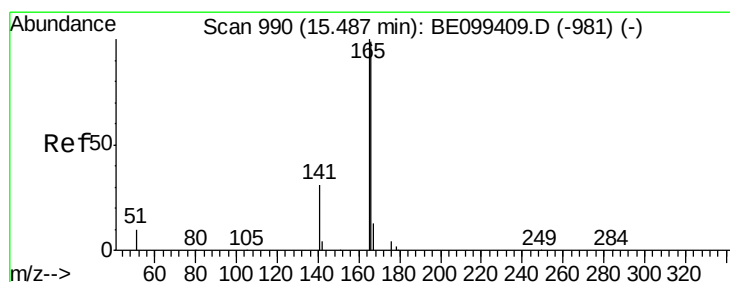
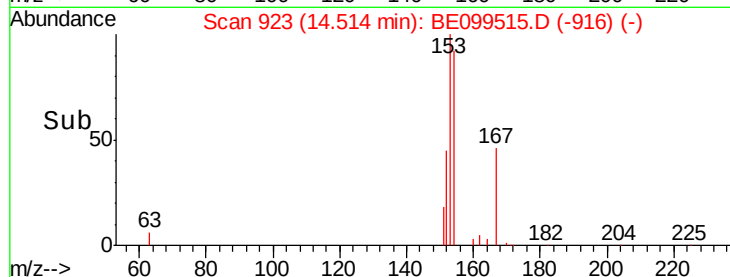
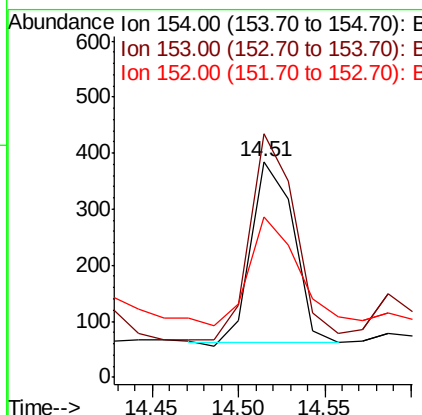
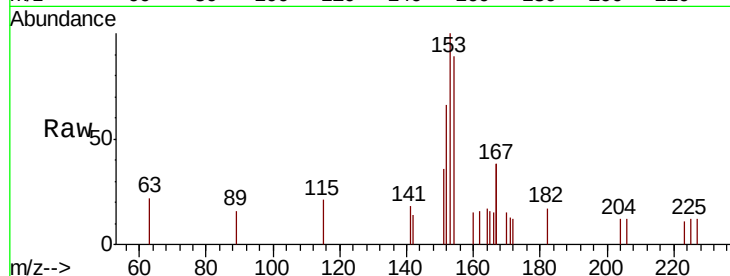
ClientSampleId :

PST-004-SW023-042319

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	124.8	92.6	138.8	
152	69.3	45.8	68.8#	

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#18

Fluorene

Concen: 0.046 ng

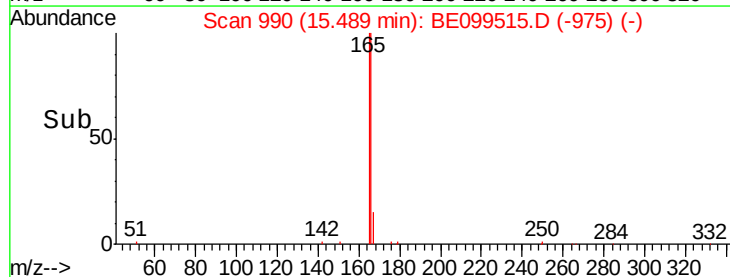
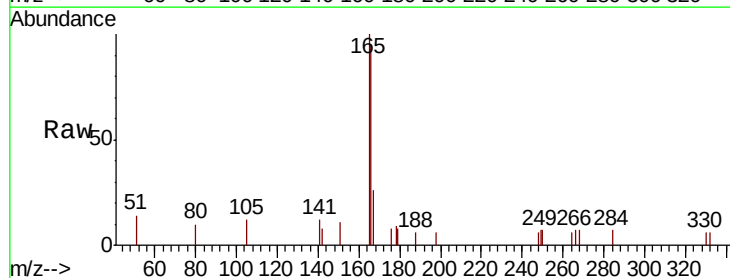
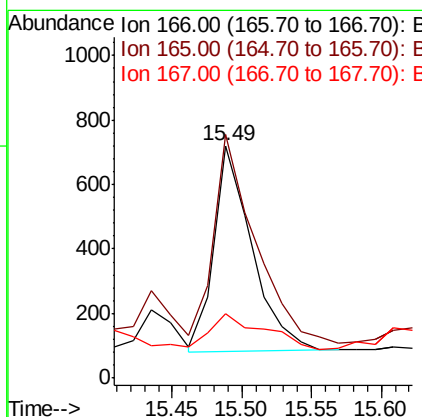
RT: 15.49 min Scan# 990

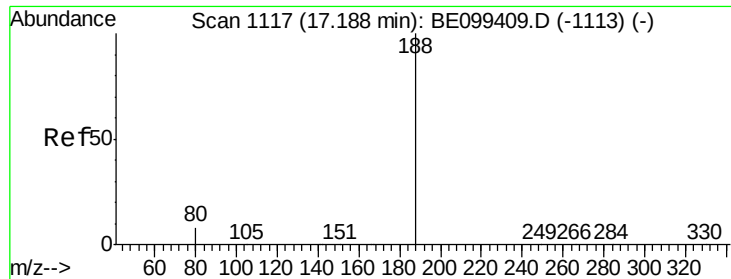
Delta R.T. 0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	109.7	80.3	120.5	
167	23.5	10.7	16.1#	





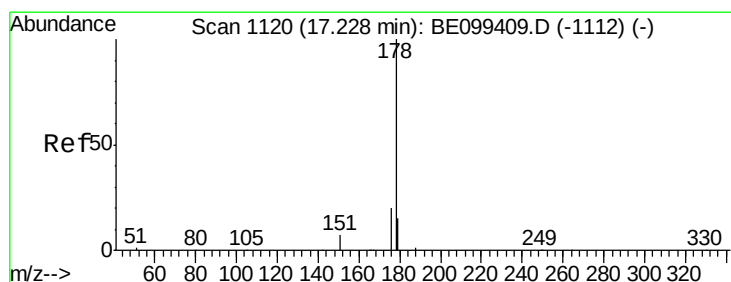
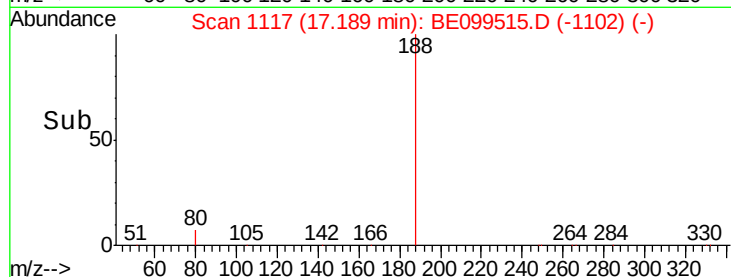
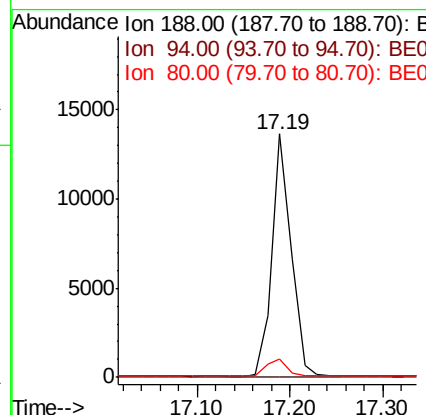
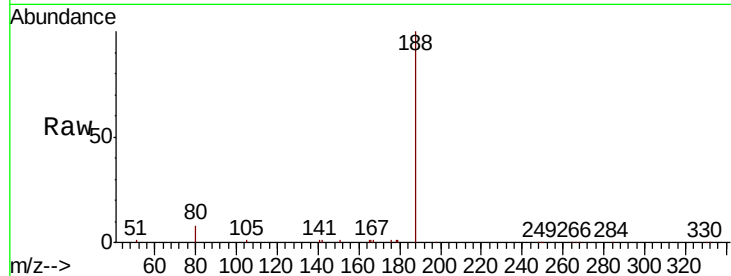
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.19 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	6.7	10.1

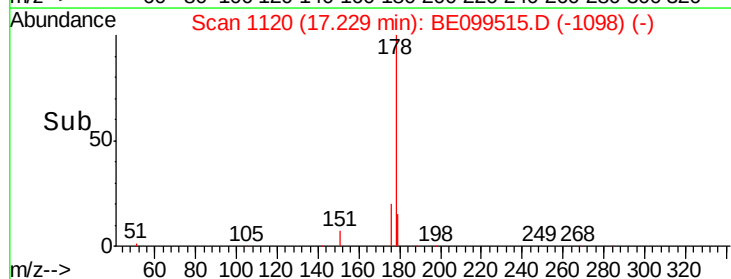
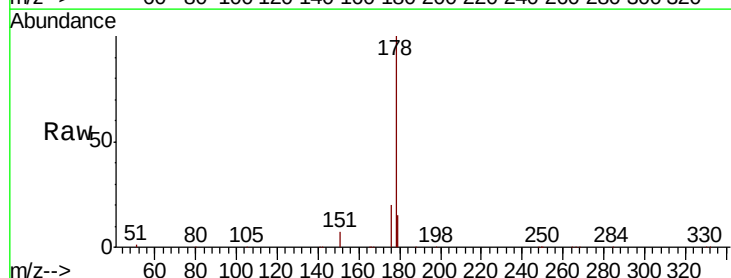
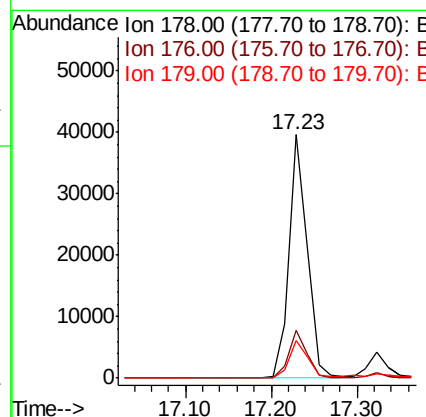
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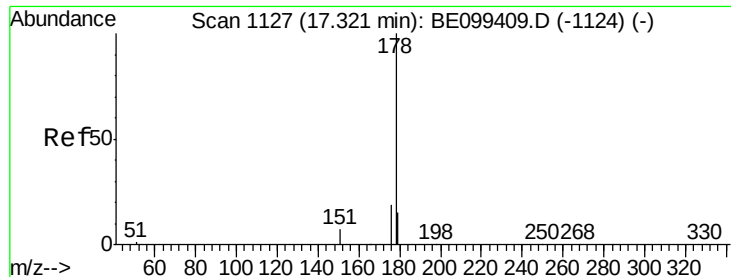
Sohil
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#23
Phenanthrene
Concen: 1.138 ng
RT: 17.23 min Scan# 1120
Delta R.T. 0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.2	12.0	18.0





#24

Anthracene

Concen: 0.111 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

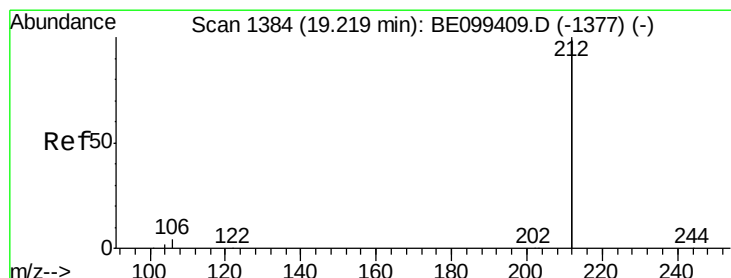
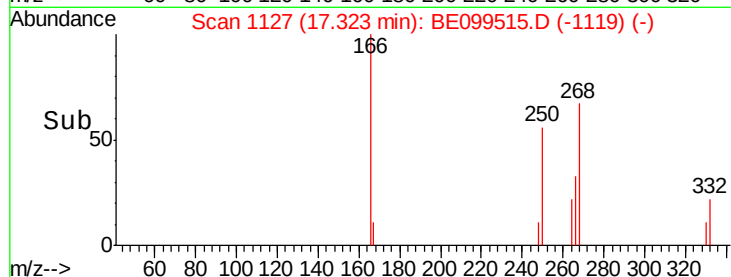
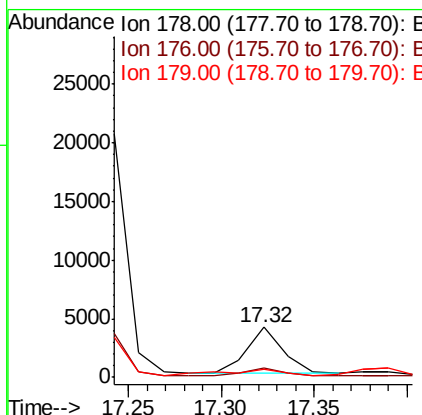
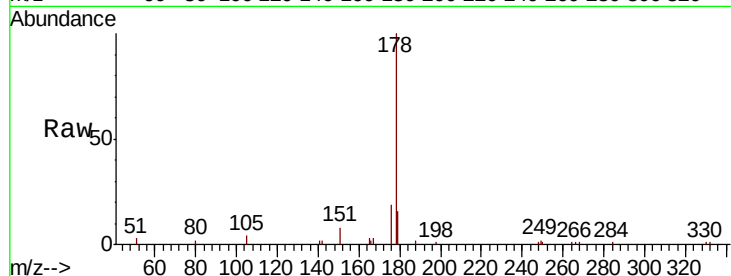
ClientSampleId :

PST-004-SW023-042319

Tgt Ion:	178	Resp:	5355
Ion Ratio		Lower	Upper
178	100		
176	20.1	14.9	22.3
179	19.3	11.9	17.9

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.201 ng

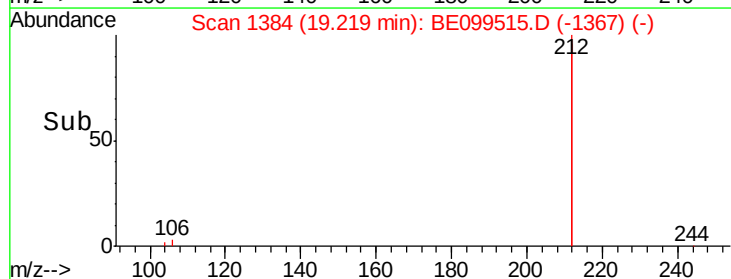
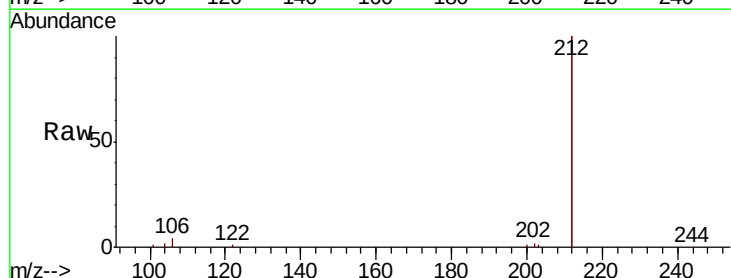
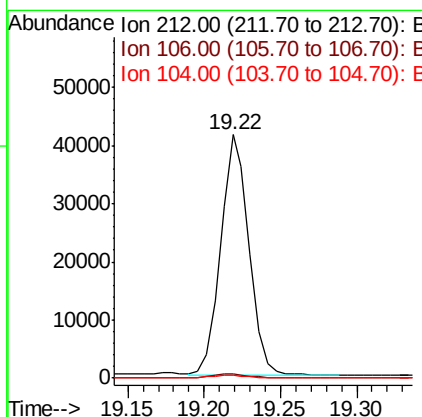
RT: 19.22 min Scan# 1384

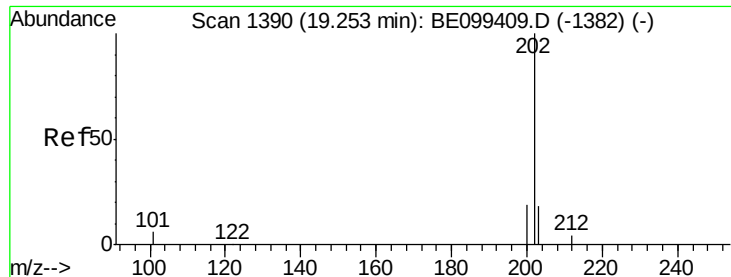
Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Tgt Ion:	212	Resp:	53254
Ion Ratio		Lower	Upper
212	100		
106	1.9	1.5	2.3
104	1.0	0.9	1.3





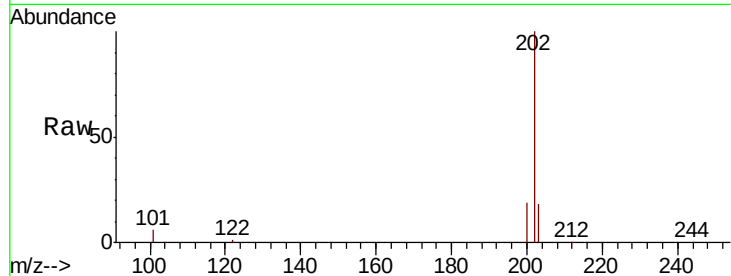
#26
Fluoranthene
Concen: 2.708 ng
RT: 19.25 min Scan# 1390
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	6.7	5.4	8.0
203	17.6	13.9	20.9

Manual Integrations
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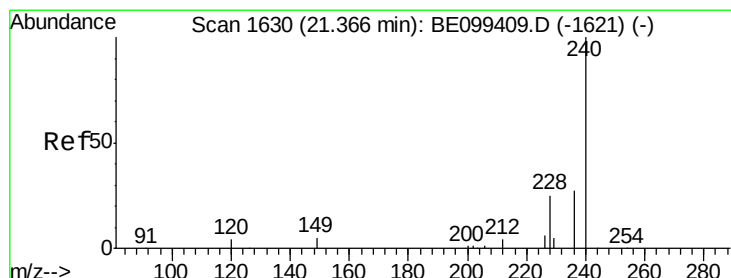
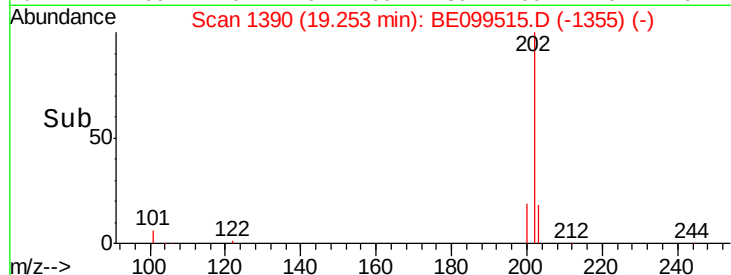
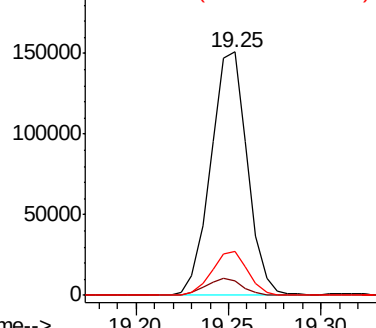


Abundance

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: BE099515.D
Acq: 3 May 2019 4:56

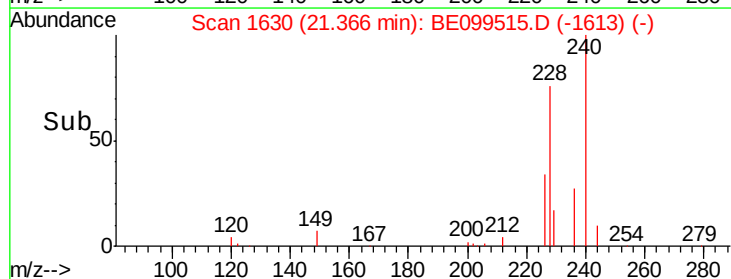
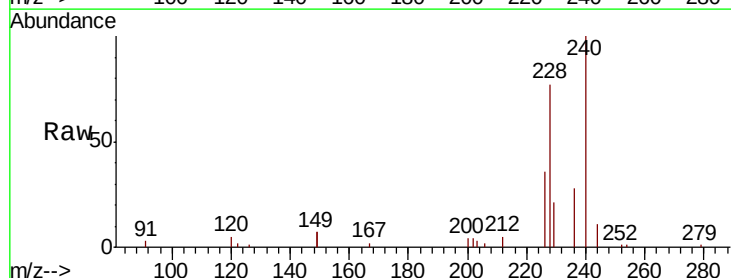
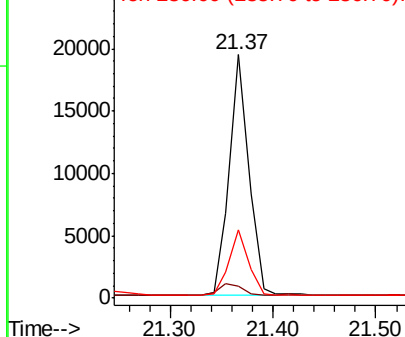
Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	5.0	4.0	6.0
236	28.3	22.0	33.0

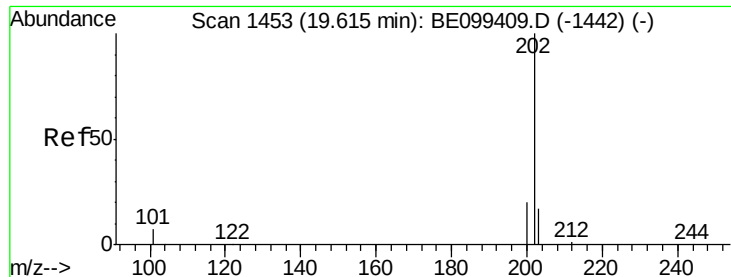
Abundance

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





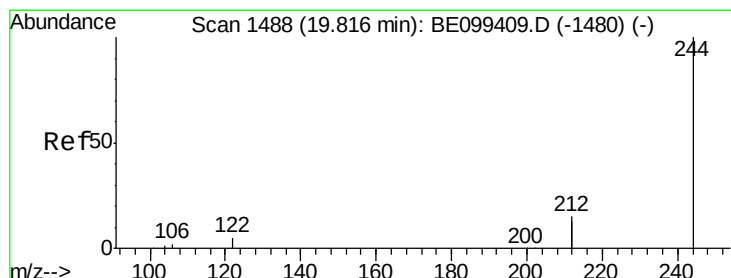
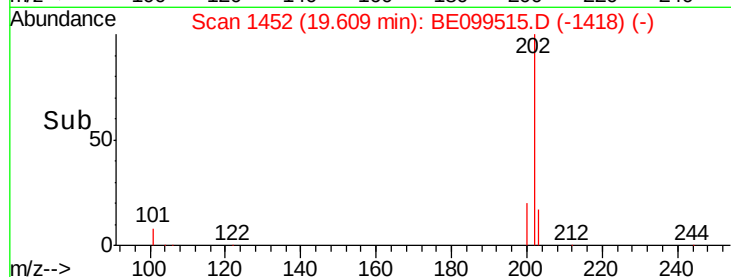
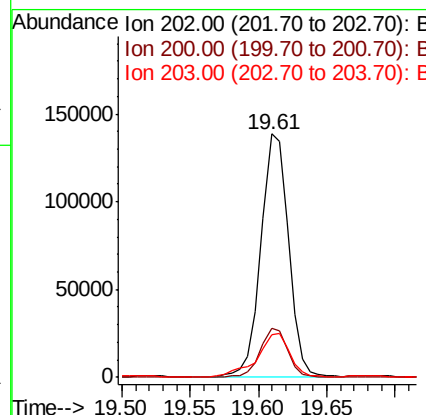
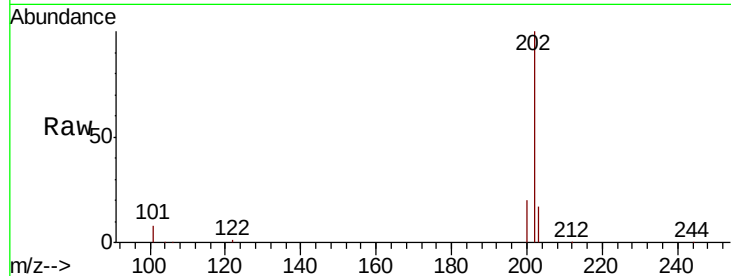
#28
 Pyrene
 Concen: 2.858 ng
 RT: 19.61 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BE099515.D
 Acq: 3 May 2019 4:56

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW023-042319

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

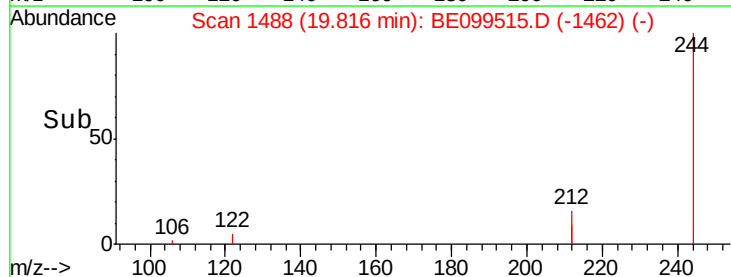
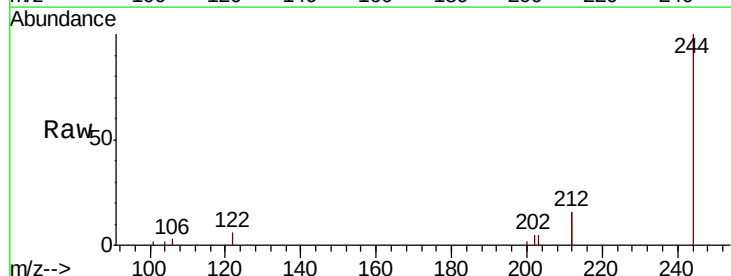
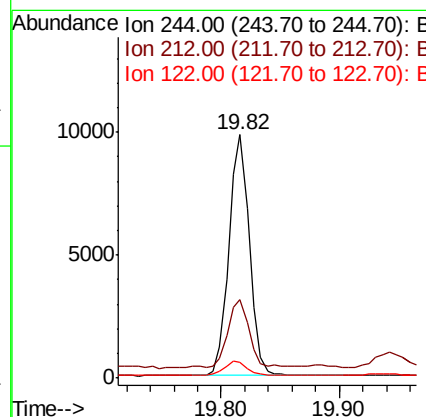
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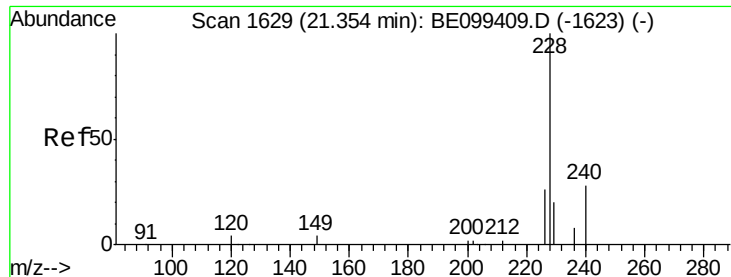
Sohil
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#29
 Terphenyl-d14
 Concen: 0.248 ng
 RT: 19.82 min Scan# 1488
 Delta R.T. -0.00 min
 Lab File: BE099515.D
 Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	32.1	23.2	34.8
122	6.3	4.2	6.4





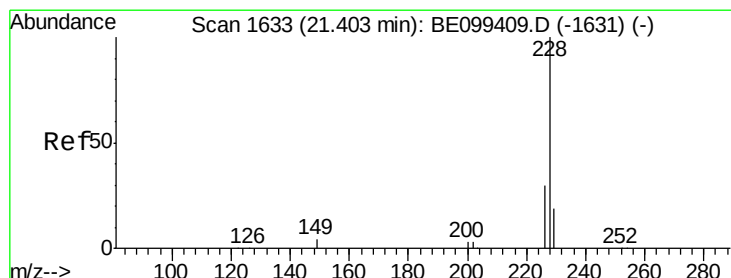
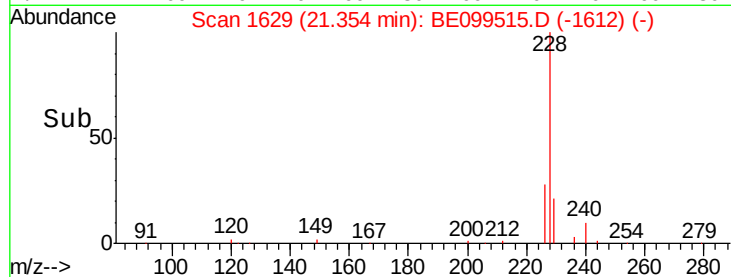
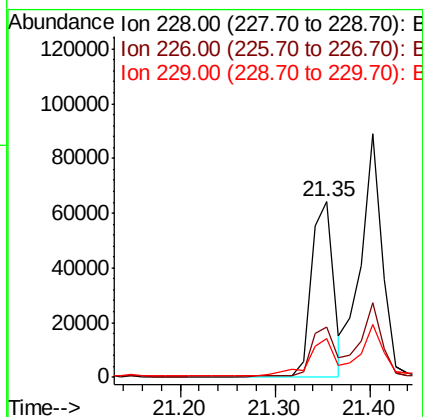
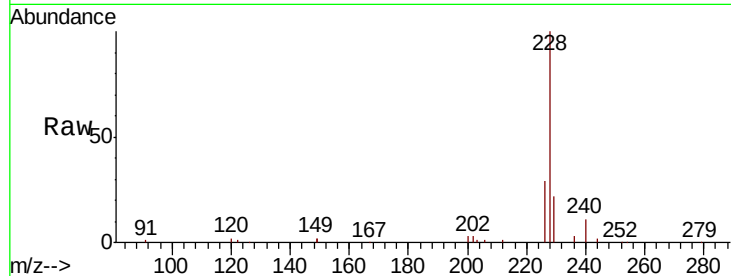
#30
Benzo(a)anthracene
Concen: 1.241 ng
RT: 21.35 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	21.0	31.6
229	22.2	16.6	25.0

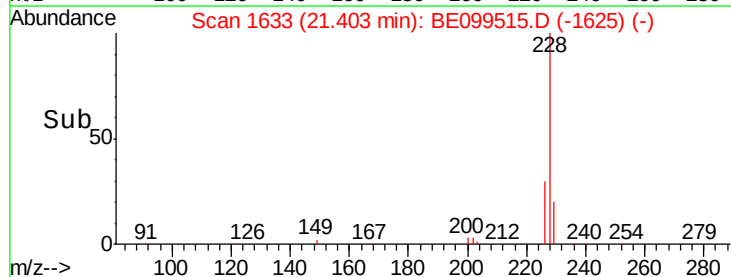
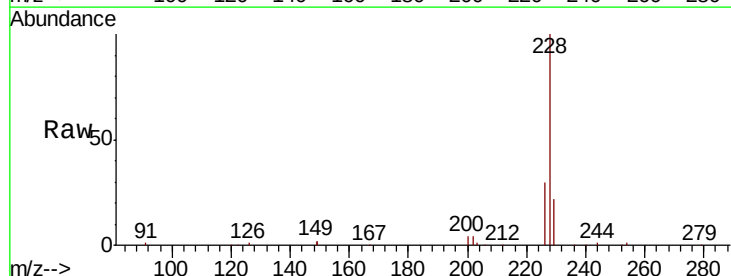
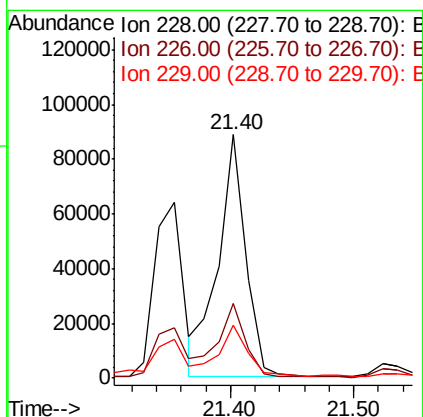
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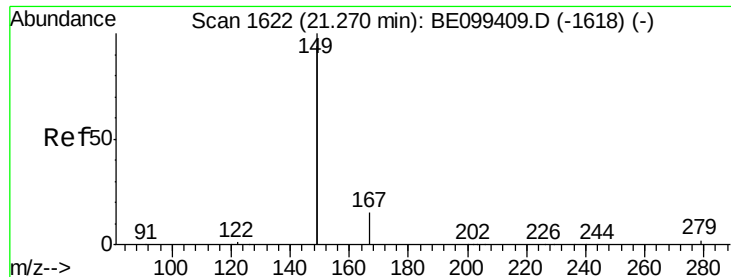
Sohil
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#31
Chrysene
Concen: 1.699 ng
RT: 21.40 min Scan# 1633
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.0	36.0
229	21.5	15.8	23.8





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.182 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Instrument :

BNA_E

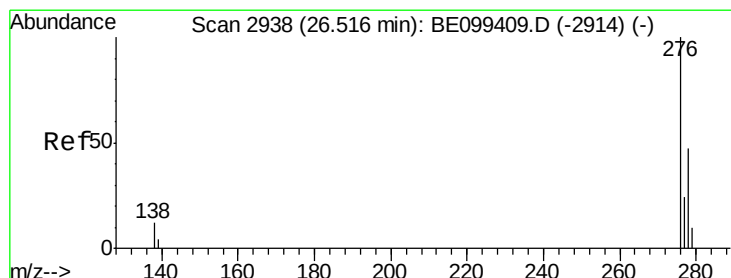
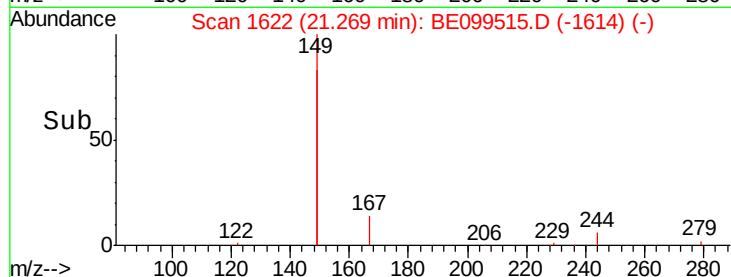
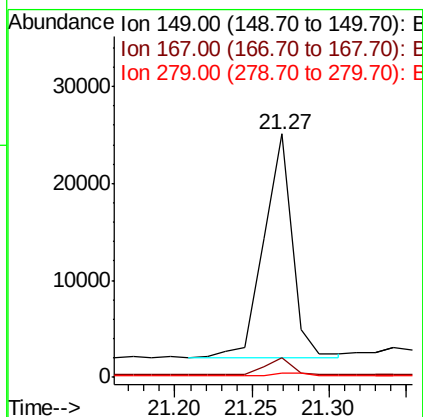
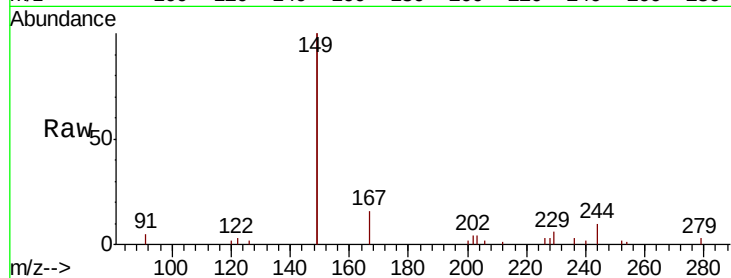
ClientSampleId :

PST-004-SW023-042319

Tgt Ion:	149	Resp:	29571
Ion Ratio	Lower	Upper	
149	100		
167	6.9	5.8	8.6
279	1.4	1.0	1.6

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.917 ng

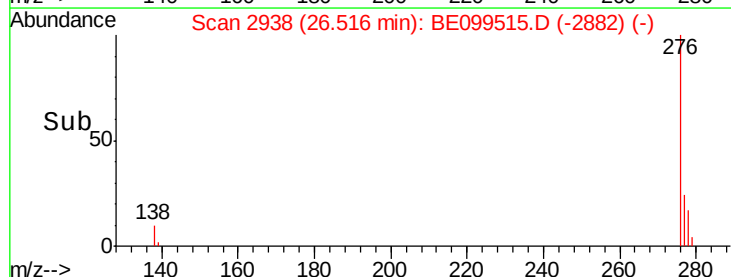
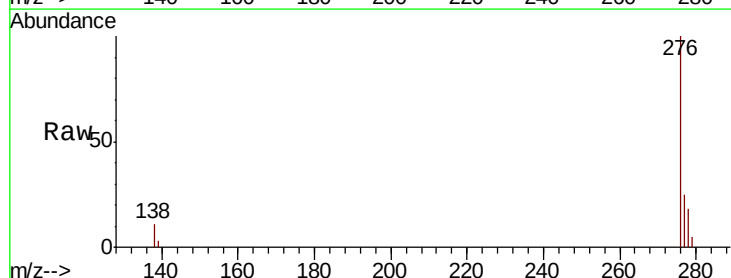
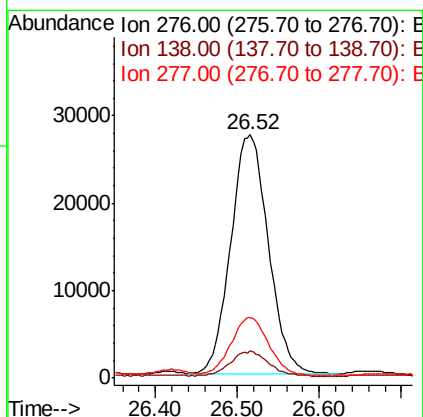
RT: 26.52 min Scan# 2938

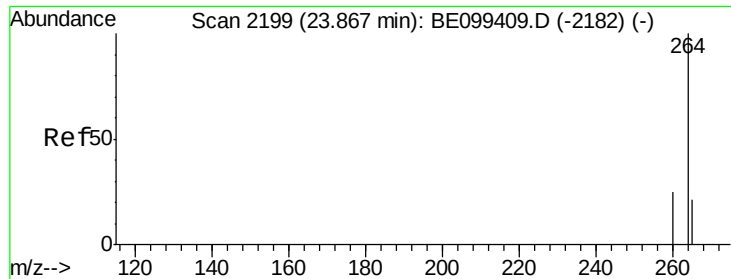
Delta R.T. -0.00 min

Lab File: BE099515.D

Acq: 3 May 2019 4:56

Tgt Ion:	276	Resp:	87523
Ion Ratio	Lower	Upper	
276	100		
138	10.6	10.2	15.2
277	24.6	19.2	28.8





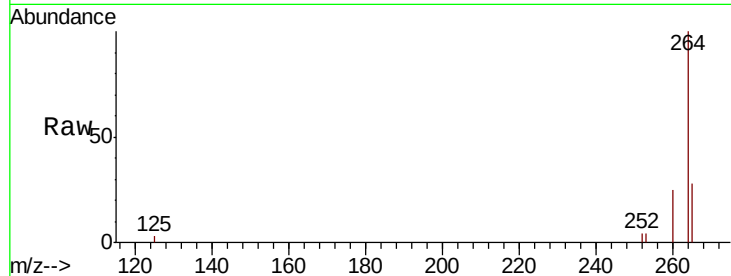
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.87 min Scan# 2200
 Delta R.T. 0.00 min
 Lab File: BE099515.D
 Acq: 3 May 2019 4:56

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW023-042319

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	29754		
260	25.0		20.2	30.2
265	28.4		21.3	31.9

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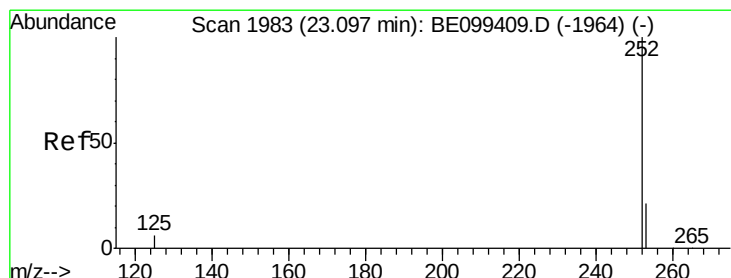
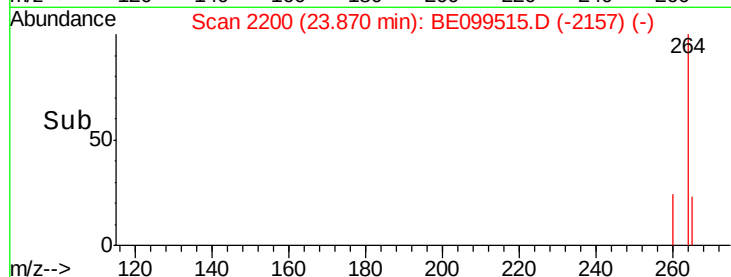
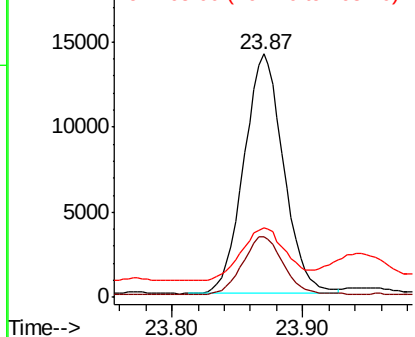


Abundance

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: 1.961 ng
 RT: 23.10 min Scan# 1984
 Delta R.T. 0.00 min
 Lab File: BE099515.D
 Acq: 3 May 2019 4:56

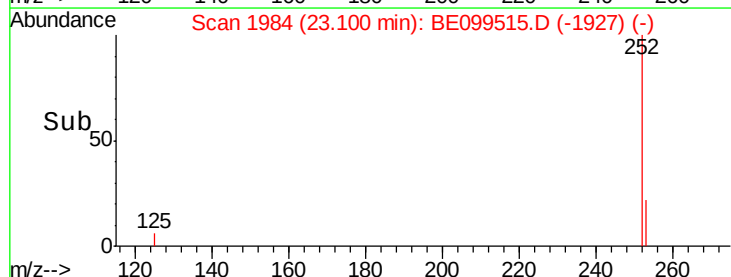
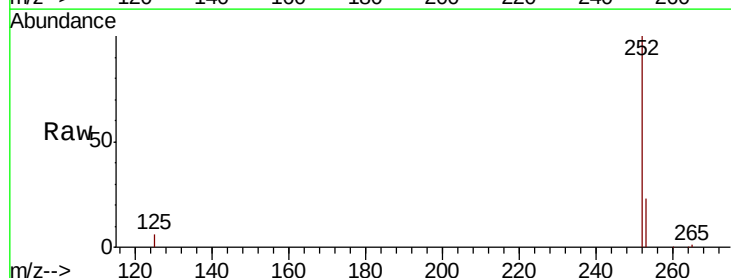
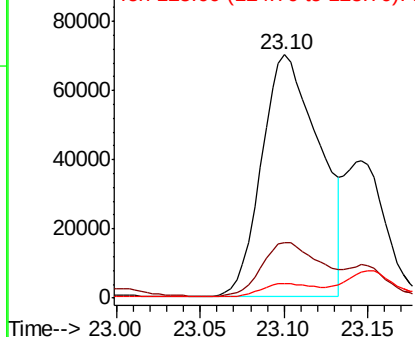
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	168209		
253	22.7		18.1	27.1
125	6.0		5.6	8.4

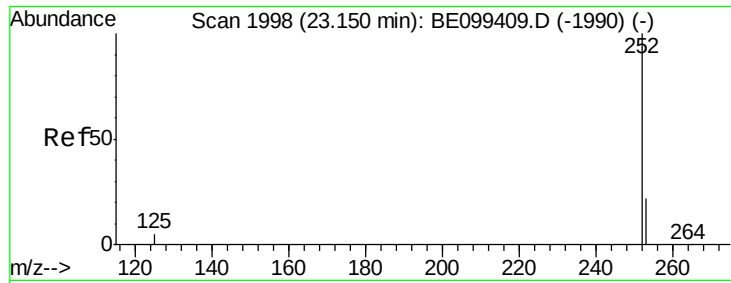
Abundance

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





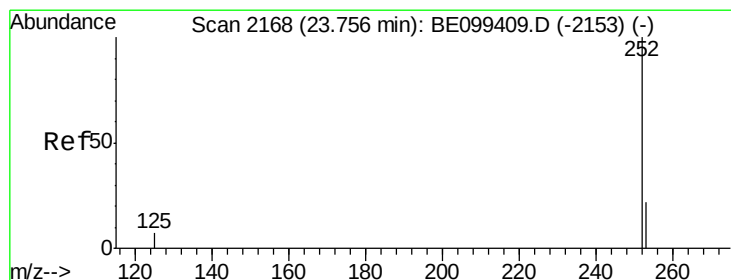
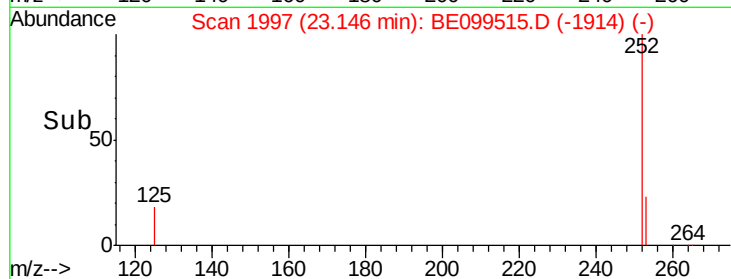
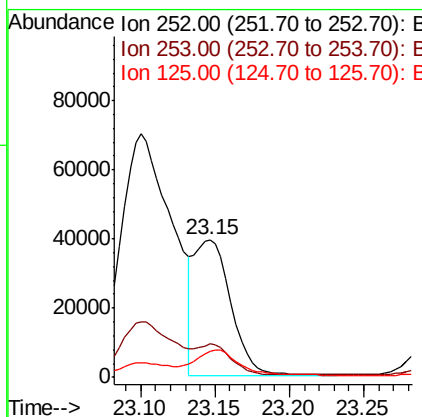
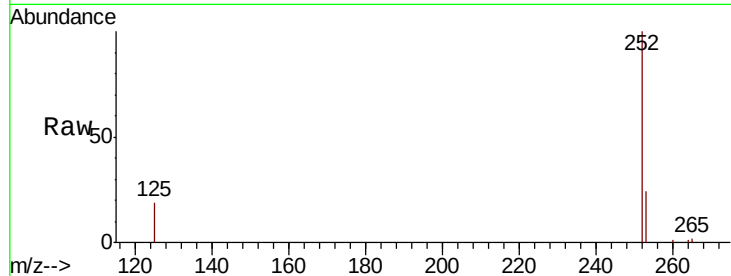
#36
Benzo(k)fluoranthene
Concen: 0.807 ng m
RT: 23.15 min Scan# 1997
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.4	27.6
125	19.2	5.0	7.4#

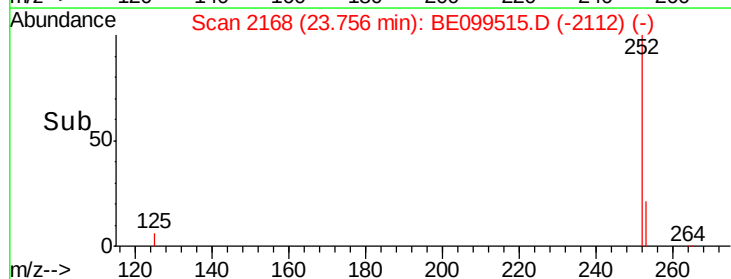
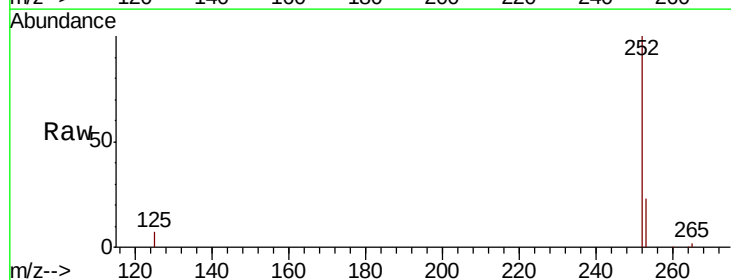
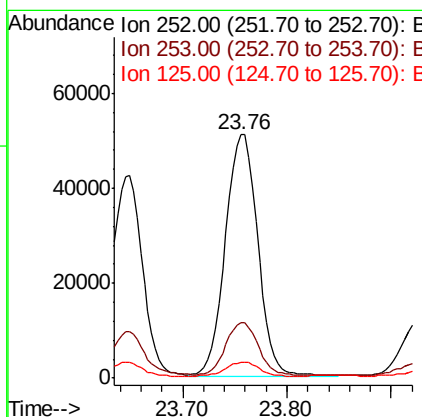
Manual Integrations
APPROVED

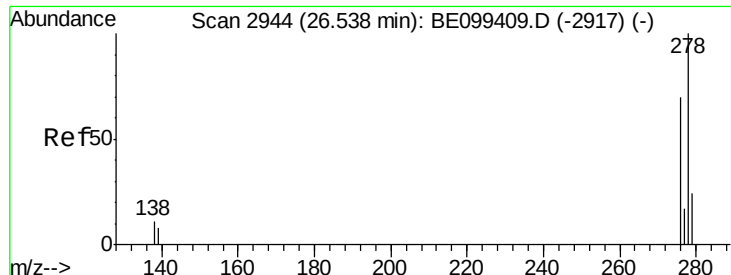
Sohil
5/3/2019 4:24:11 PM



#37
Benzo(a)pyrene
Concen: 1.352 ng m
RT: 23.76 min Scan# 2168
Delta R.T. -0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.9	28.3
125	6.6	6.7	10.1#





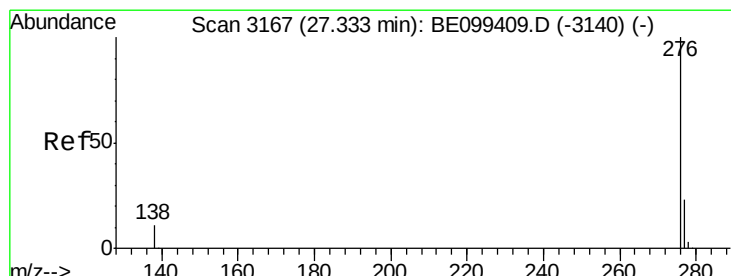
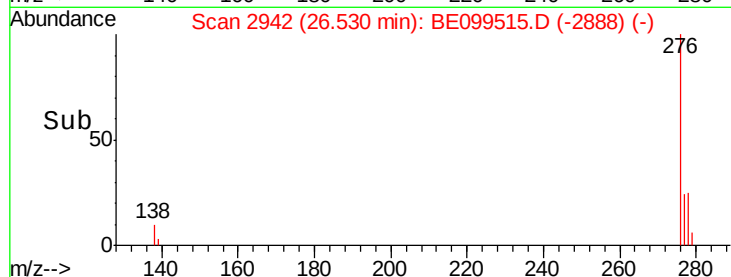
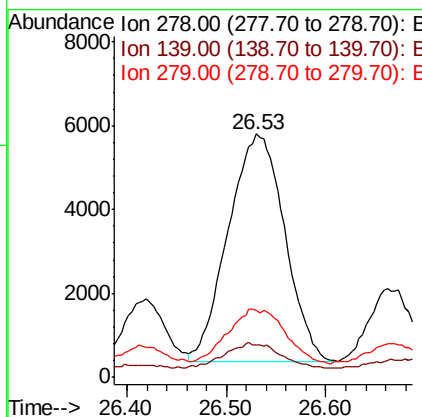
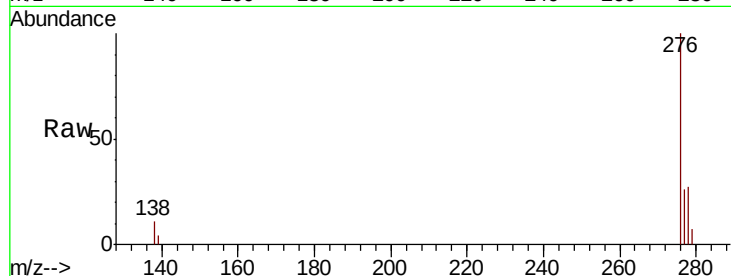
#38
Dibenzo(a,h)anthracene
Concen: 0.257 ng
RT: 26.53 min Scan# 2942
Delta R.T. -0.01 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Instrument :
BNA_E
ClientSampleId :
PST-004-SW023-042319

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.5	7.7	11.5#
279	27.6	20.2	30.2

Manual Integrations
APPROVED

Sohil
5/3/2019 4:24:11 PM



#39
Benzo(g,h,i)perylene
Concen: 1.037 ng
RT: 27.34 min Scan# 3168
Delta R.T. 0.00 min
Lab File: BE099515.D
Acq: 3 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.5	29.3
138	11.0	9.6	14.4

