

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
 Data File : BE099512.D
 Acq On : 3 May 2019 3:09
 Operator : JU/SJ
 Sample : K2587-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-B166-042319

Manual Integrations
 APPROVED

Sohil
 5/3/2019 4:24:03 PM

Quant Time: May 03 08:13:44 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	2248	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	8054	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6589	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	20549	0.40	ng	0.00
27) Chrysene-d12	21.37	240	25897	0.40	ng	0.00
34) Perylene-d12	23.87	264	29982	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	2592	0.42	ng	0.00
5) Phenol-d6	6.96	99	3637	0.44	ng	-0.01
8) Nitrobenzene-d5	8.96	82	2831	0.38	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	5650	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1826	0.44	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	8472	0.34	ng	-0.02
25) Fluoranthene-d10	19.22	212	93374	0.34	ng	0.00
29) Terphenyl-d14	19.82	244	18596	0.39	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	2982	0.034	ng	# 92
12) 2-Methylnaphthalene	12.27	142	436	0.029	ng	# 93
16) Acenaphthylene	14.18	152	1849	0.057	ng	# 94
18) Fluorene	15.49	166	612	0.023	ng	# 81
23) Phenanthrene	17.23	178	21447	0.404	ng	99
24) Anthracene	17.32	178	2225	0.044	ng	# 92
26) Fluoranthene	19.25	202	59332	0.747	ng	100
28) Pyrene	19.61	202	57185	0.847	ng	97
30) Benzo(a)anthracene	21.35	228	32723	0.397	ng	94
31) Chrysene	21.40	228	42641	0.528	ng	98
32) Bis(2-ethylhexyl)phthalate	21.27	149	26326	0.154	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.51	276	28528	0.299	ng	98
35) Benzo(b)fluoranthene	23.10	252	55404	0.641	ng	# 93
36) Benzo(k)fluoranthene	23.14	252	20150m	0.242	ng	
37) Benzo(a)pyrene	23.76	252	33465m	0.409	ng	
38) Dibenzo(a,h)anthracene	26.53	278	7169	0.086	ng	# 80
39) Benzo(g,h,i)perylene	27.34	276	28216	0.337	ng	98

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

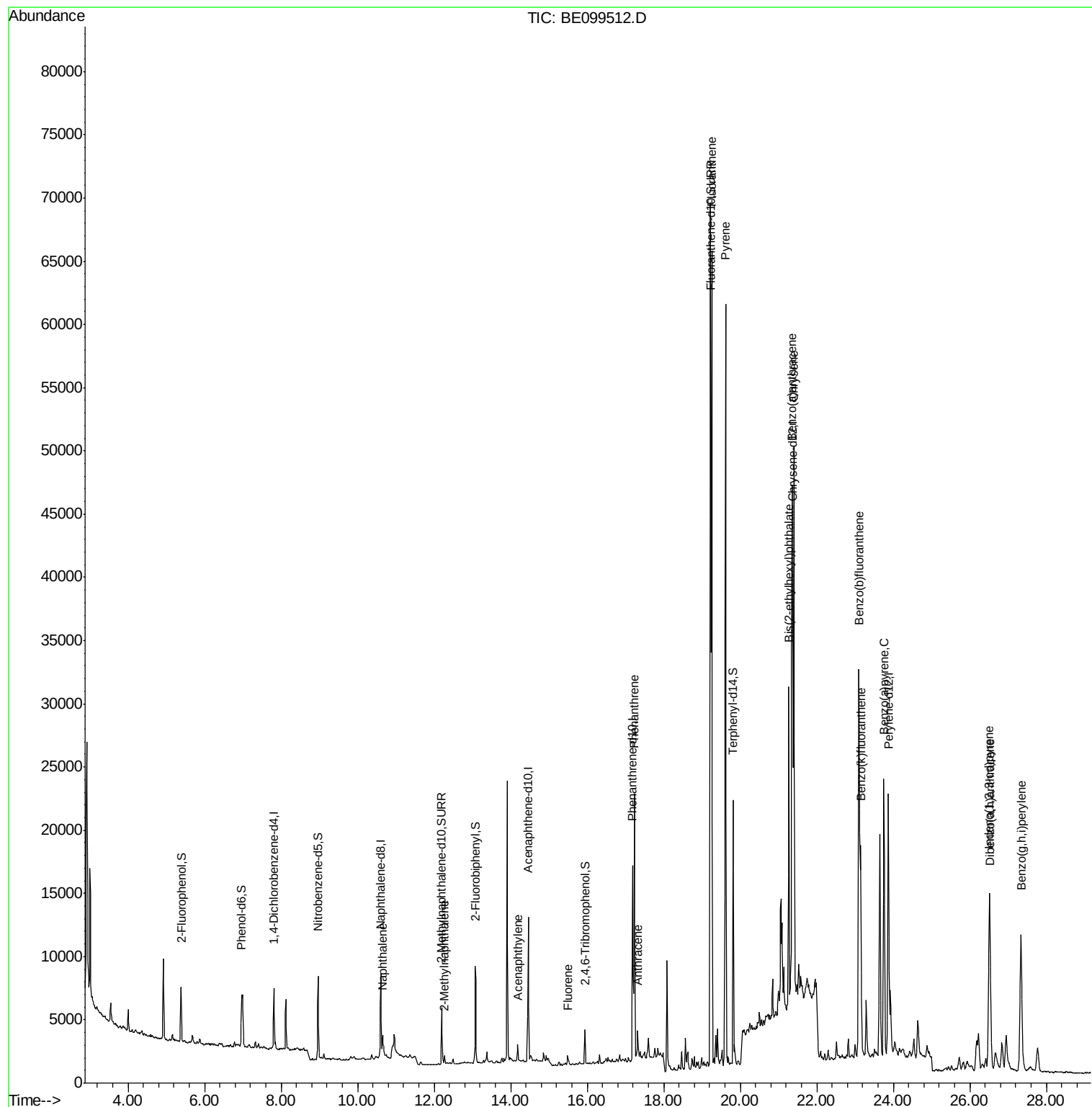
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050219\
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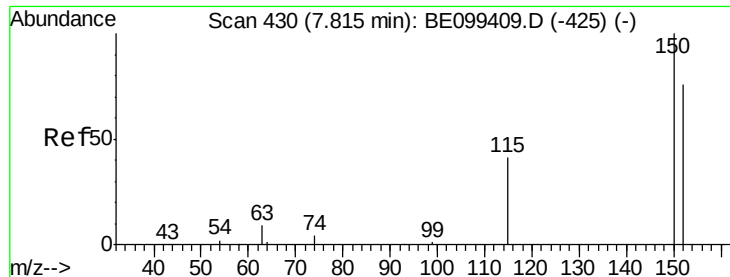
Instrument :
BNA_E
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PST-004-B166-042319

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Quant Time: May 03 08:13:44 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

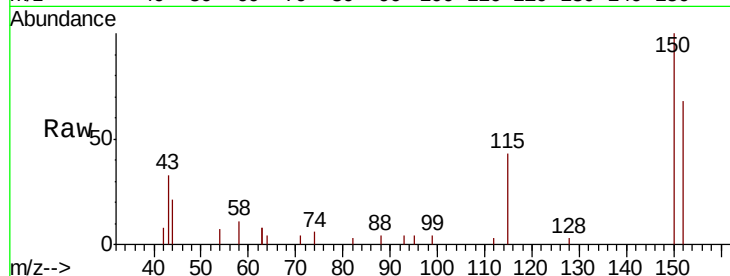
ClientSampleId :

PST-004-B166-042319

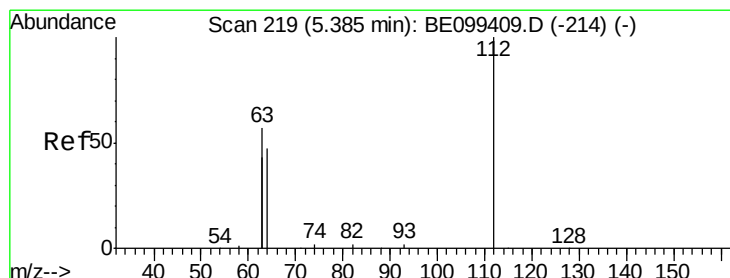
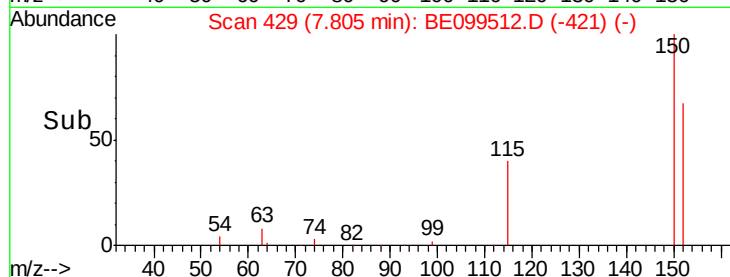
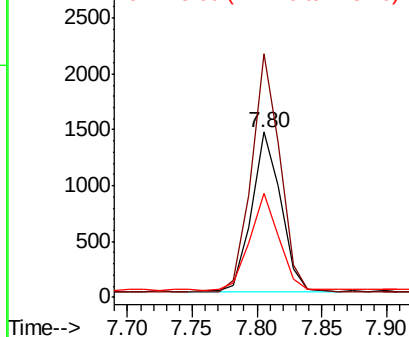
Tgt Ion:	152	Resp:	2248
Ion Ratio	Lower	Upper	
152	100		
150	147.2	104.8	157.2
115	62.8	46.6	69.8

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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: 0.417 ng

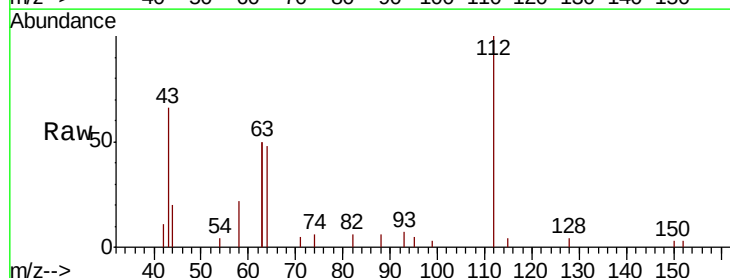
RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

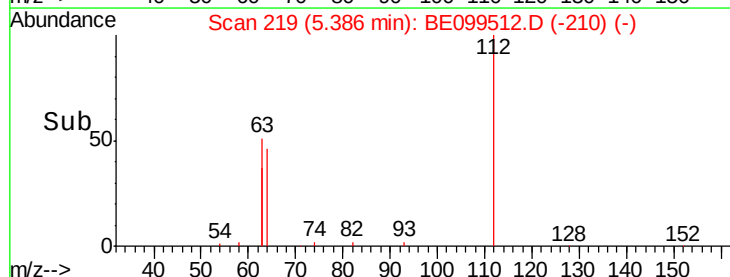
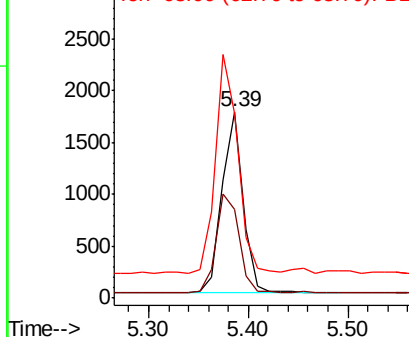
Lab File: BE099512.D

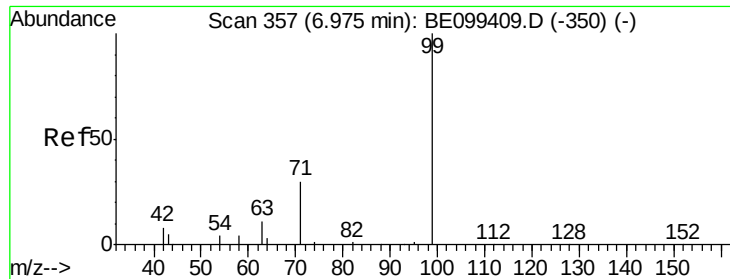
Acq: 3 May 2019 3:09

Tgt Ion:	112	Resp:	2592
Ion Ratio	Lower	Upper	
112	100		
64	58.3	47.4	71.0
63	126.4	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: 0.440 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

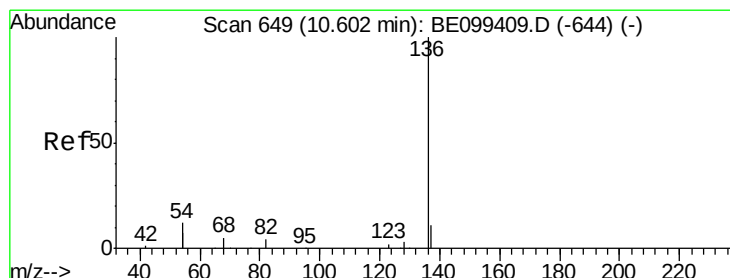
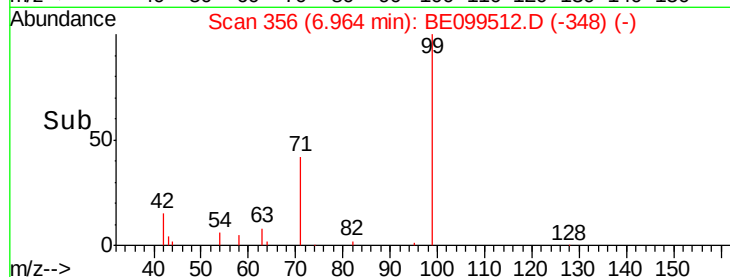
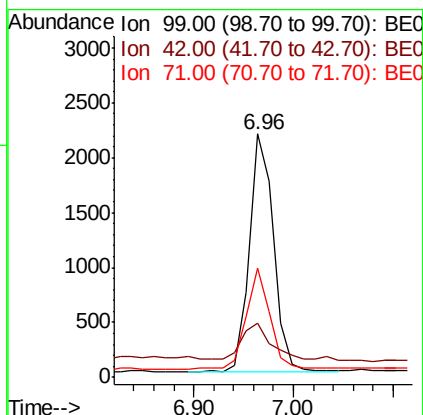
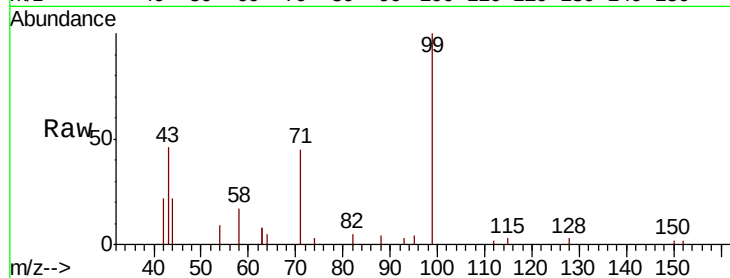
ClientSampleId :

PST-004-B166-042319

Tgt Ion:	99	Resp:	3637
Ion	Ratio	Lower	Upper
99	100		
42	18.1	14.9	22.3
71	41.9	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

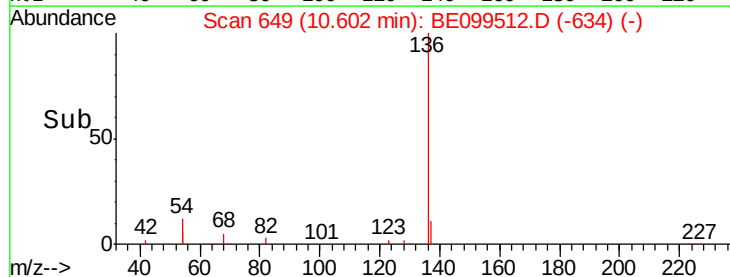
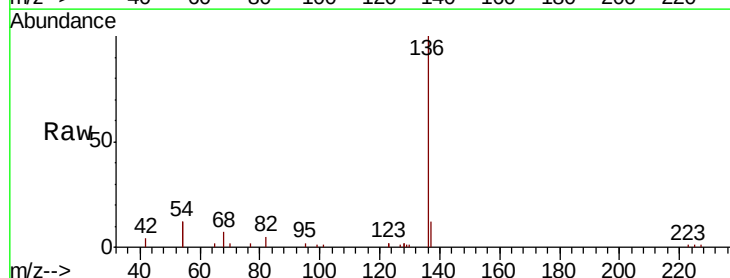
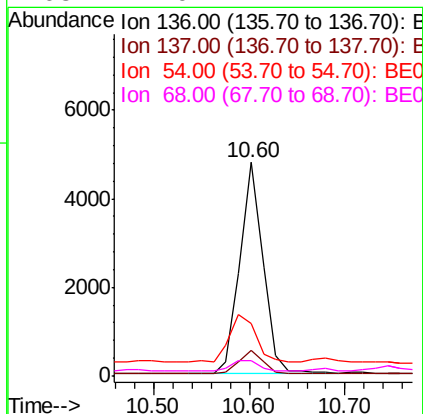
RT: 10.60 min Scan# 649

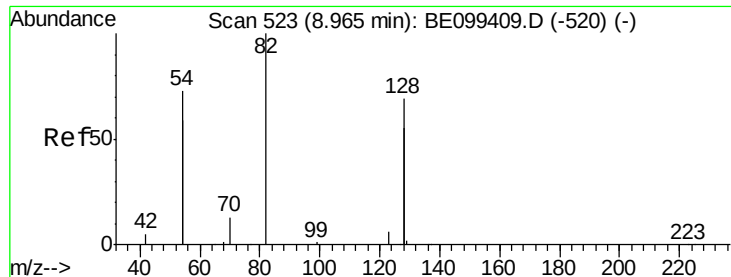
Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion:	136	Resp:	8054
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.8	14.8
54	24.4	18.5	27.7
68	7.0	4.7	7.1





#8

Nitrobenzene-d5

Concen: 0.375 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

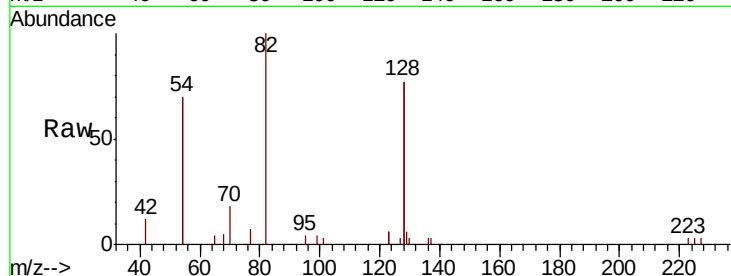
ClientSampleId :

PST-004-B166-042319

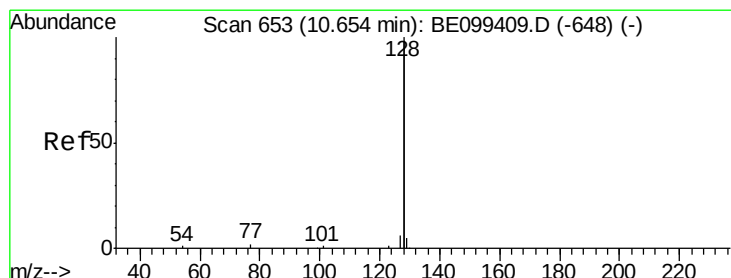
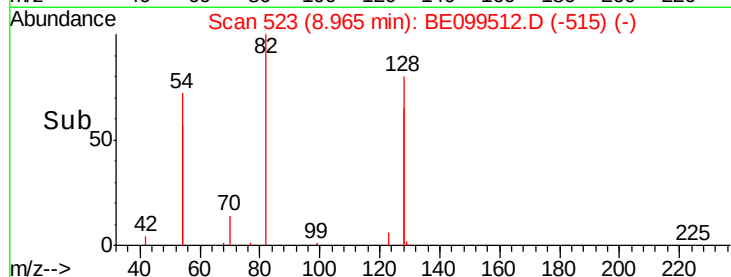
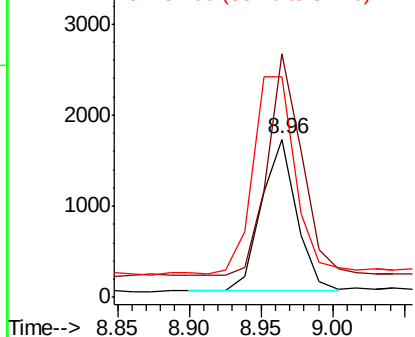
Tgt Ion:	82	Resp:	2831
Ion Ratio	Lower	Upper	
82	100		
128	154.0	107.0	160.4
54	139.1	113.1	169.7

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: 0.034 ng

RT: 10.65 min Scan# 653

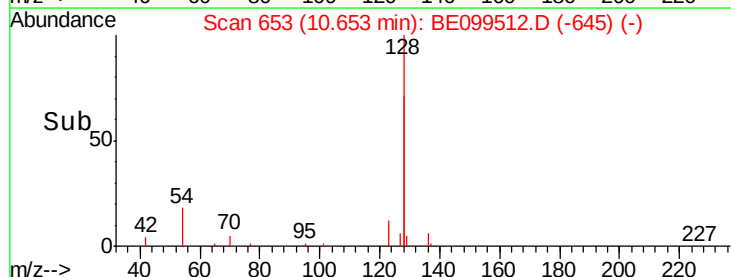
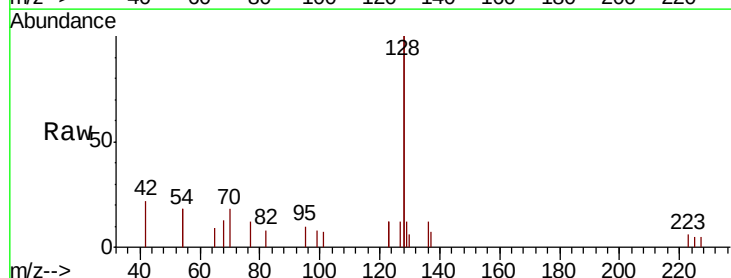
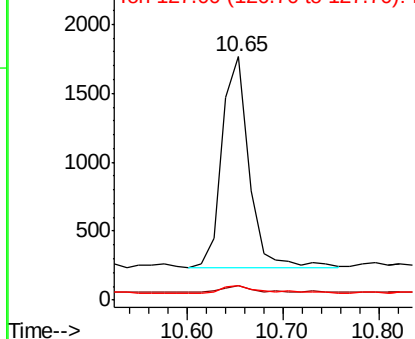
Delta R.T. -0.00 min

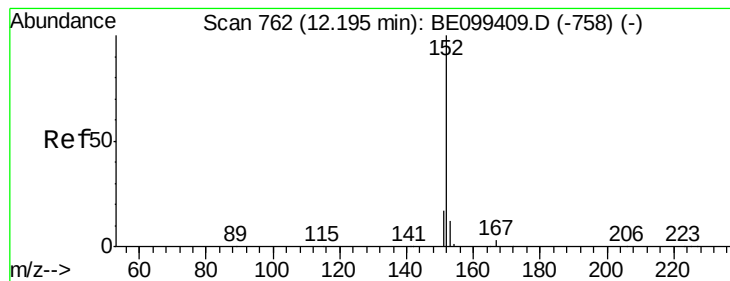
Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion:	128	Resp:	2982
Ion Ratio	Lower	Upper	
128	100		
129	5.8	2.4	3.6#
127	5.8	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





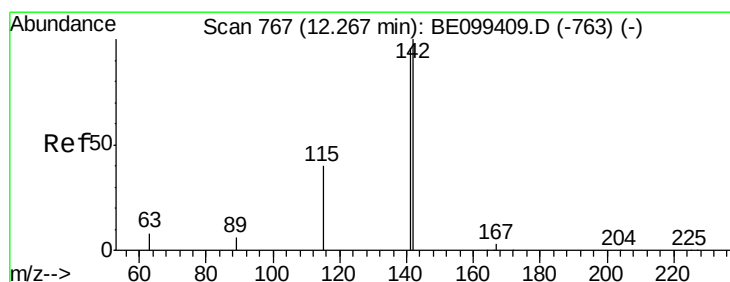
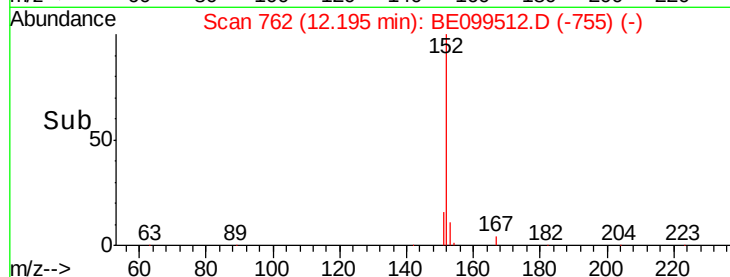
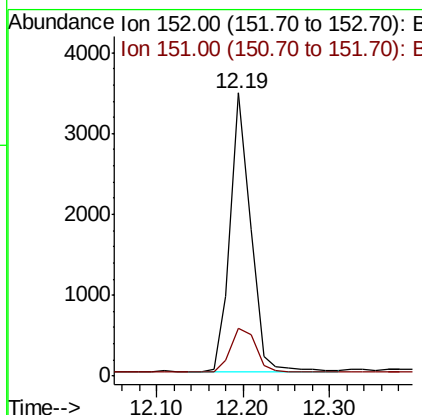
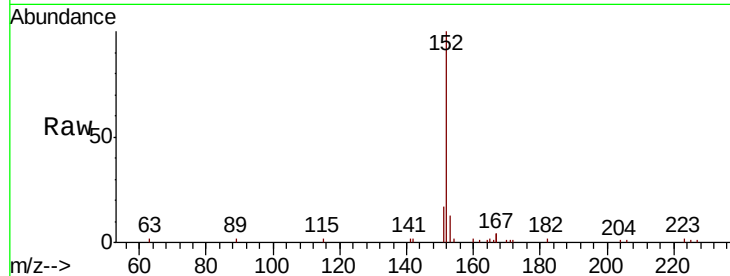
#11
 2-Methylnaphthalene-d10
 Concen: 0.389 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-B166-042319

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	5650		
151	19.7	15.5	23.3	

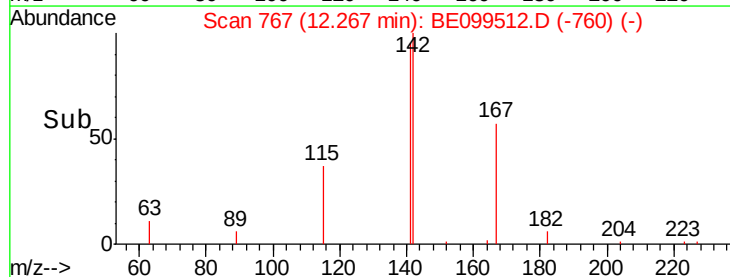
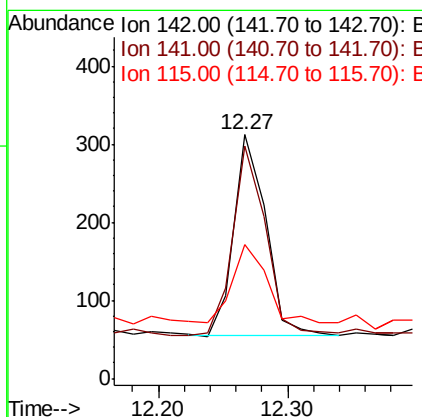
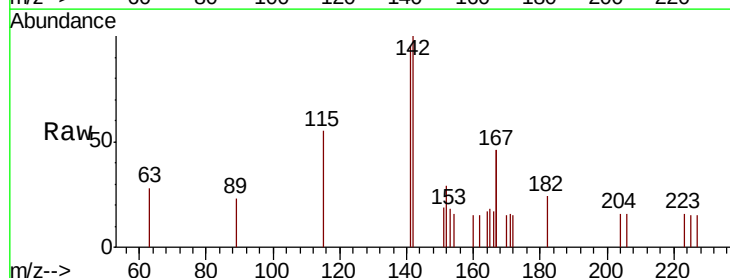
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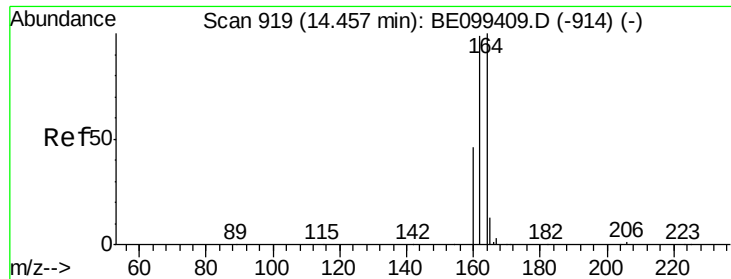
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#12
 2-Methylnaphthalene
 Concen: 0.029 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	436		
141	95.2	77.0	115.4	
115	54.8	33.4	50.0	





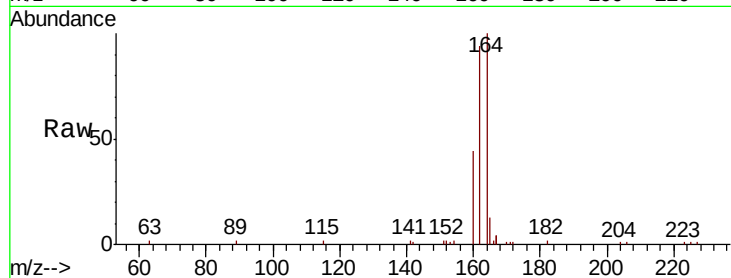
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

Instrument :
BNA_E
ClientSampleId :
PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
164	100		
162	93.8	79.0	118.4
160	44.0	37.0	55.4

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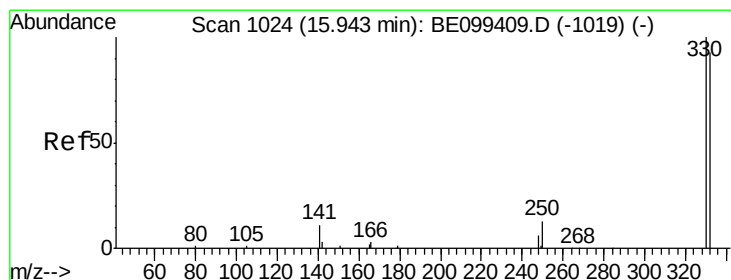
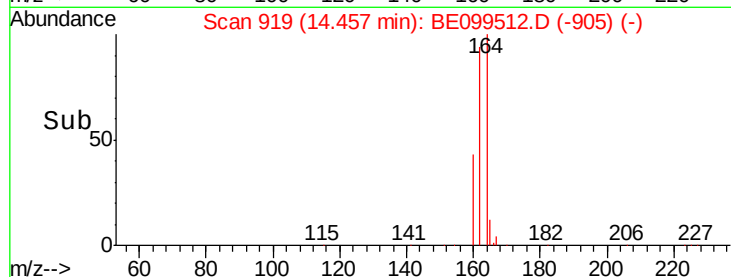
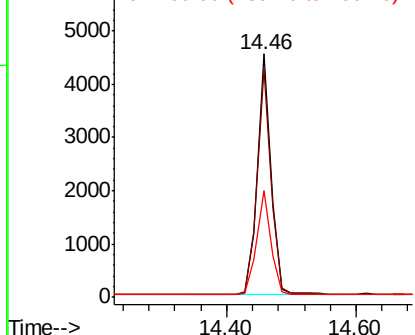


Abundance

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: 0.440 ng
RT: 15.94 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

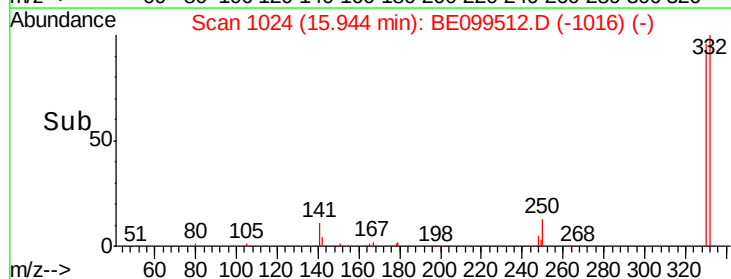
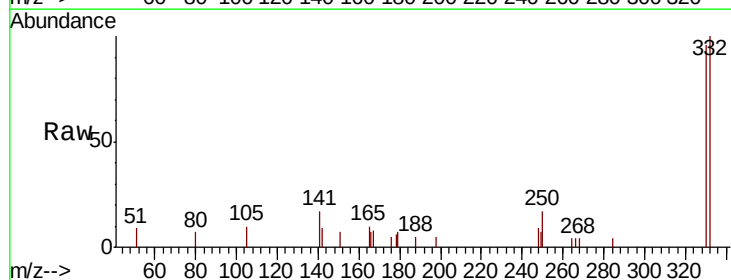
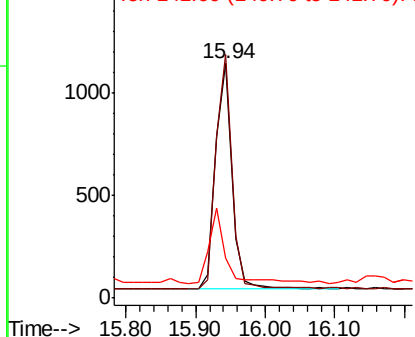
Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.9	71.5	107.3
141	33.6	24.0	36.0

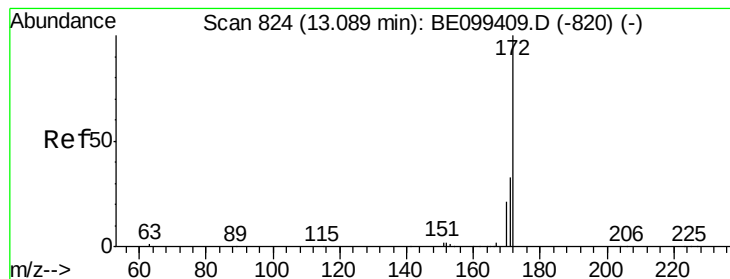
Abundance

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





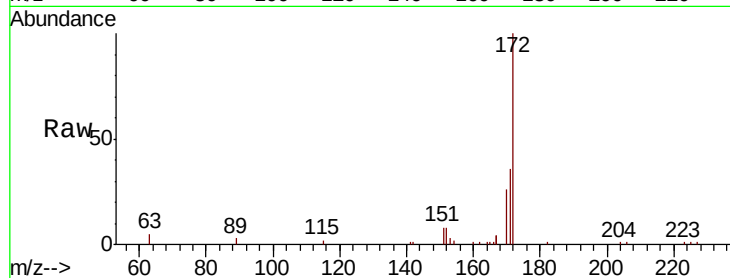
#15
2-Fluorobiphenyl
Concen: 0.337 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.02 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

Instrument :
BNA_E
ClientSampleId :
PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	26.6	39.8
170	26.1	17.0	25.6

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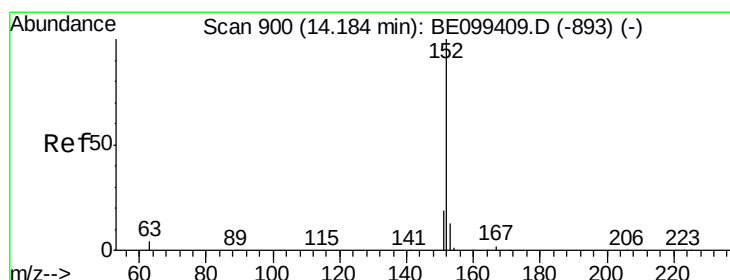
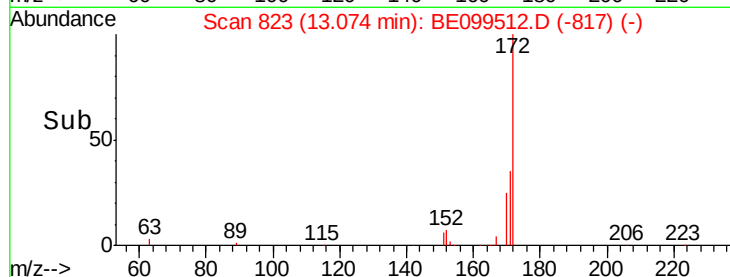
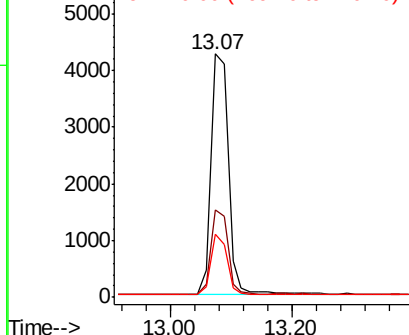


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.057 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

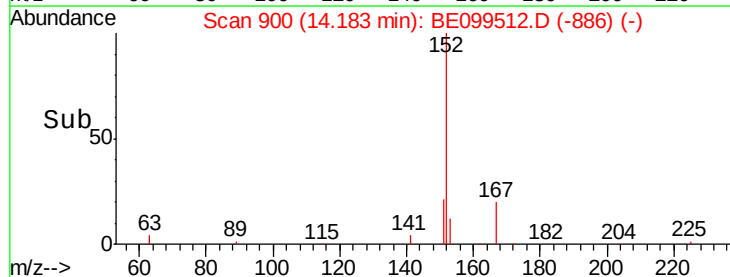
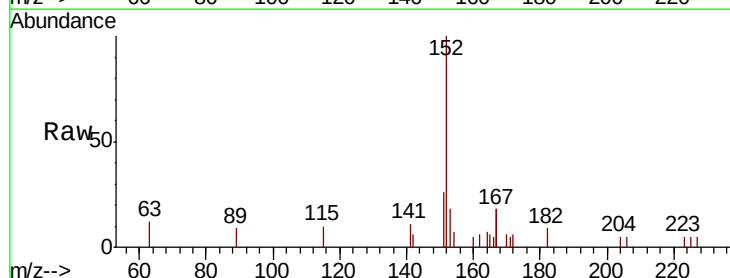
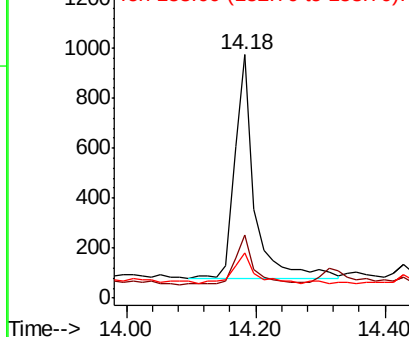
Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.4	23.2
153	14.9	9.8	14.6

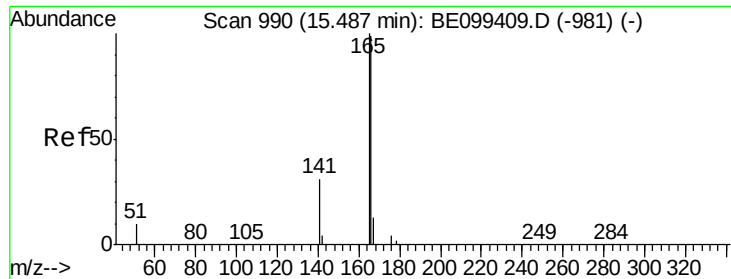
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





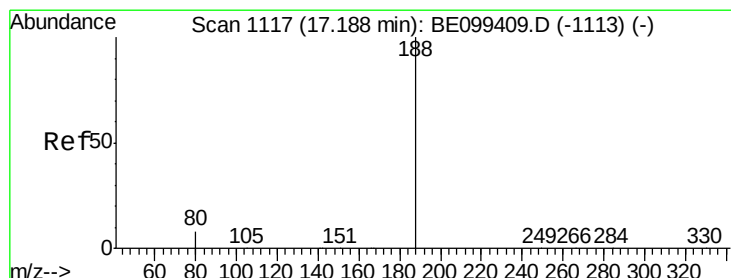
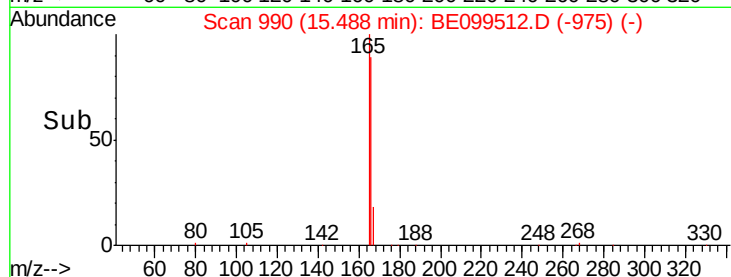
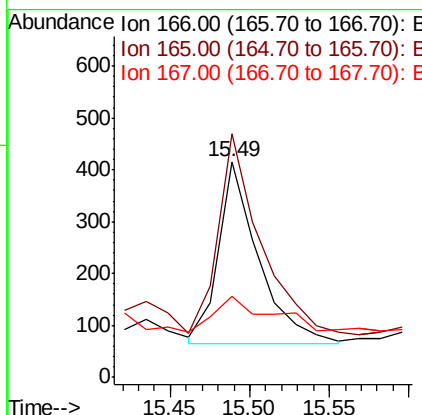
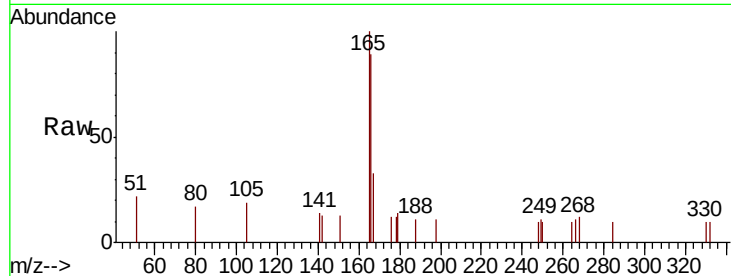
#18
Fluorene
 Concen: 0.023 ng
 RT: 15.49 min Scan# 990
 Delta R.T. 0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
166	100		
165	116.3	80.3	120.5
167	30.1	10.7	16.1#

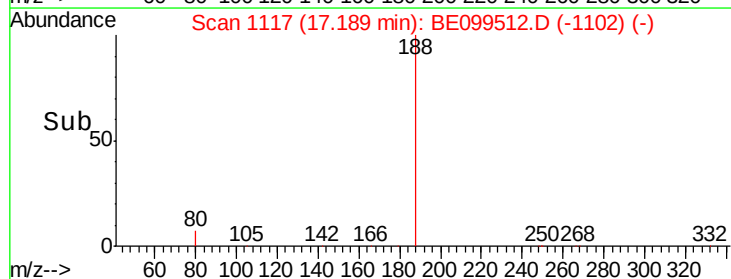
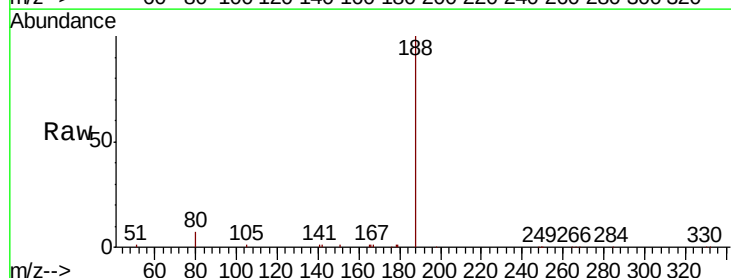
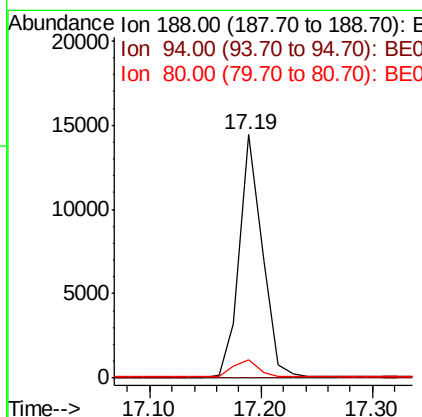
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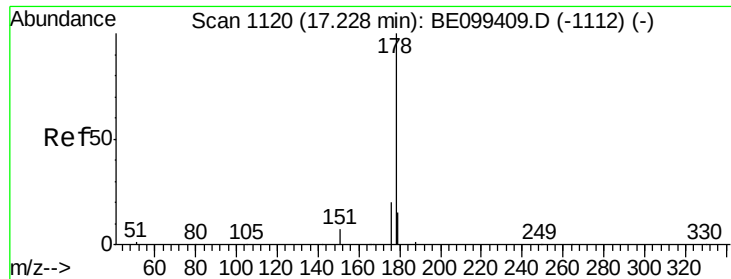
Sohil
 5/3/2019 4:24:03 PM



#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. 0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.3	6.7	10.1





#23

Phenanthrene

Concen: 0.404 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

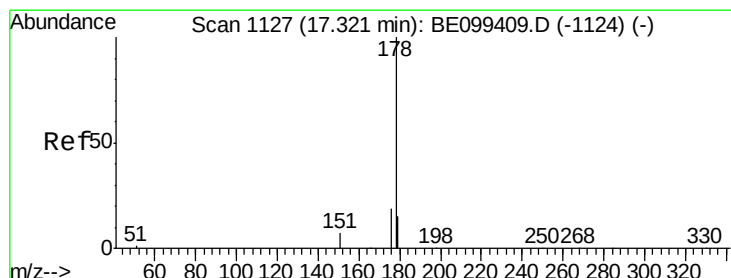
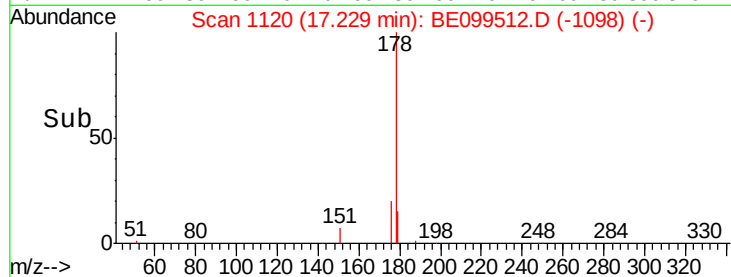
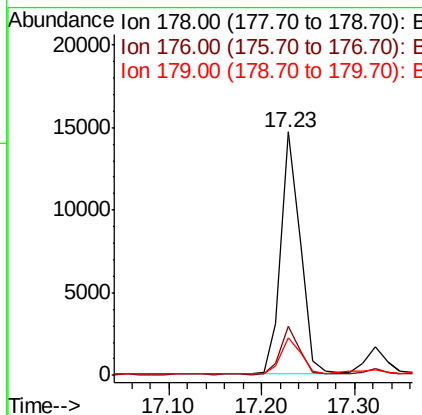
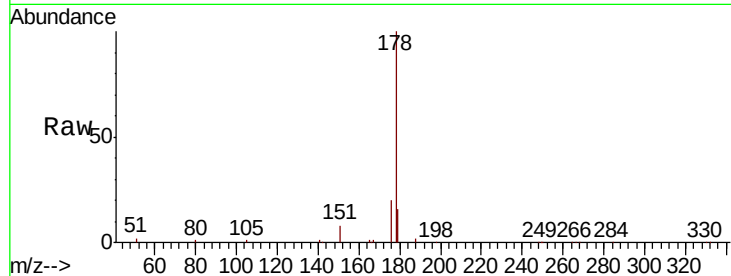
ClientSampleId :

PST-004-B166-042319

Tgt Ion:	178	Resp:	21447
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.6	23.4
179	15.8	12.0	18.0

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#24

Anthracene

Concen: 0.044 ng

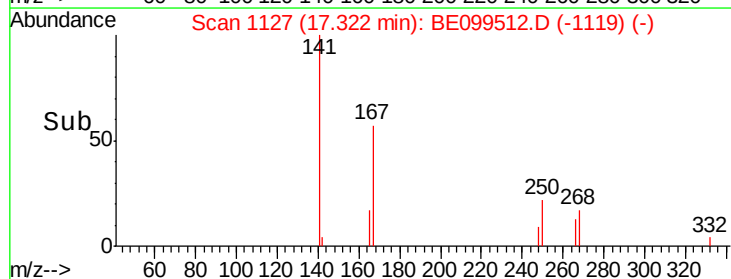
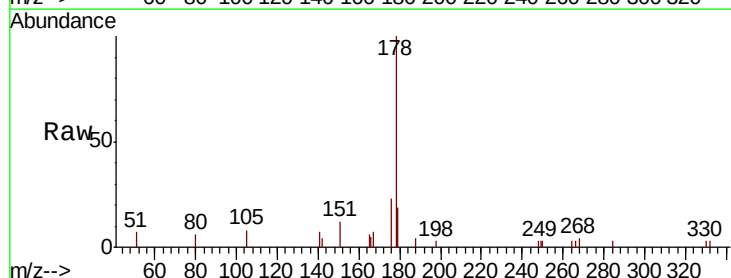
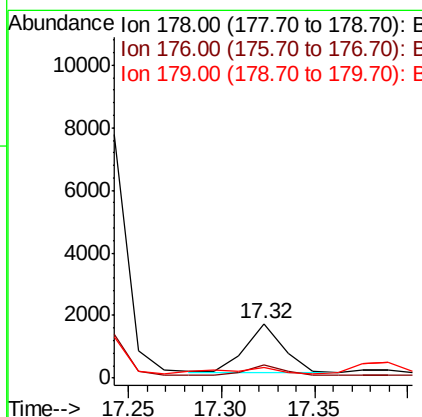
RT: 17.32 min Scan# 1127

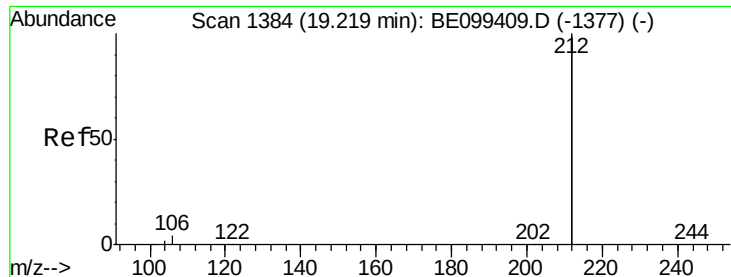
Delta R.T. 0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion:	178	Resp:	2225
Ion Ratio	Lower	Upper	
178	100		
176	19.9	14.9	22.3
179	21.3	11.9	17.9#





#25

Fluoranthene-d10

Concen: 0.337 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

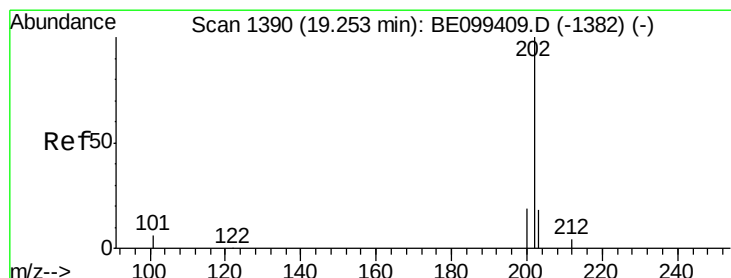
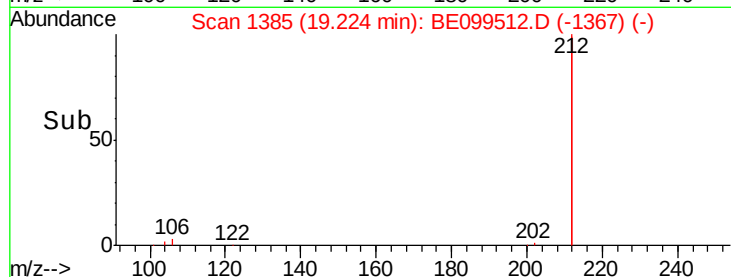
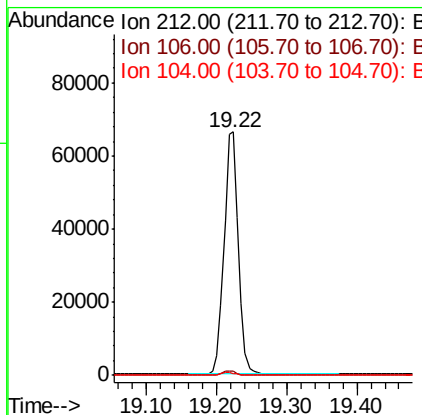
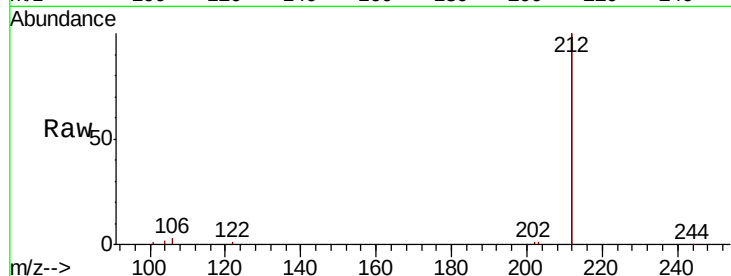
ClientSampleId :

PST-004-B166-042319

Tgt Ion:	212	Resp:	93374
Ion Ratio	Lower	Upper	
212	100		
106	1.8	1.5	2.3
104	1.1	0.9	1.3

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#26

Fluoranthene

Concen: 0.747 ng

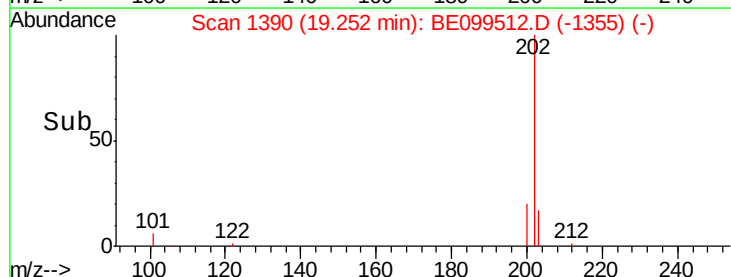
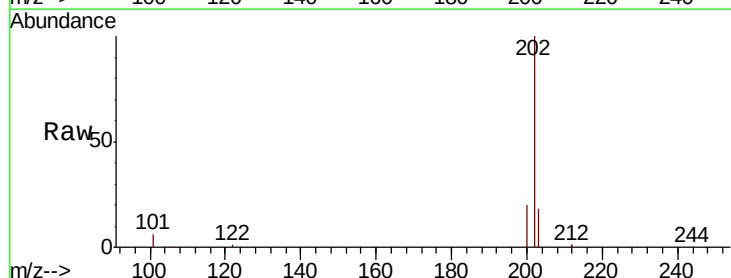
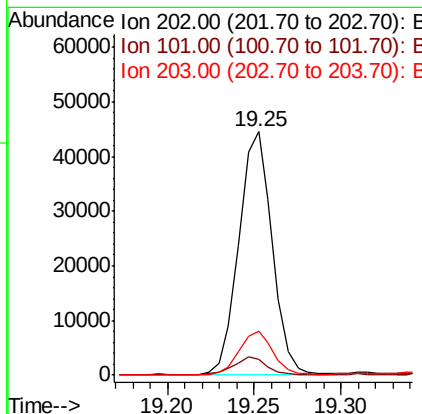
RT: 19.25 min Scan# 1390

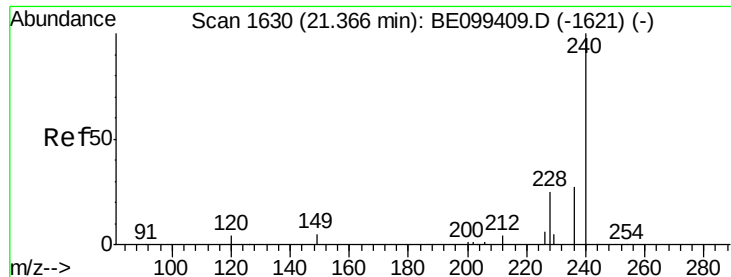
Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion:	202	Resp:	59332
Ion Ratio	Lower	Upper	
202	100		
101	6.9	5.4	8.0
203	17.5	13.9	20.9





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

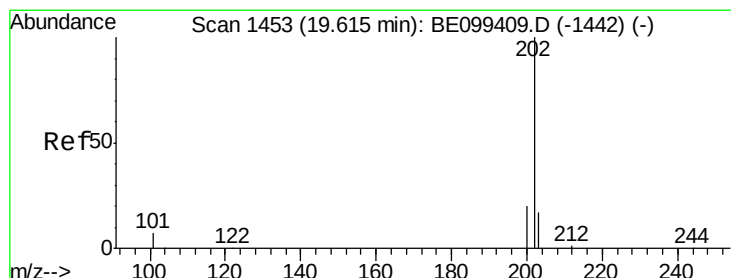
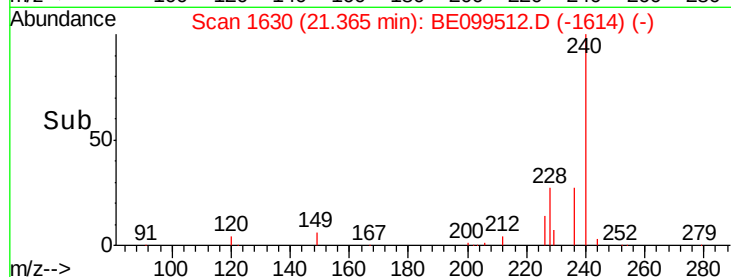
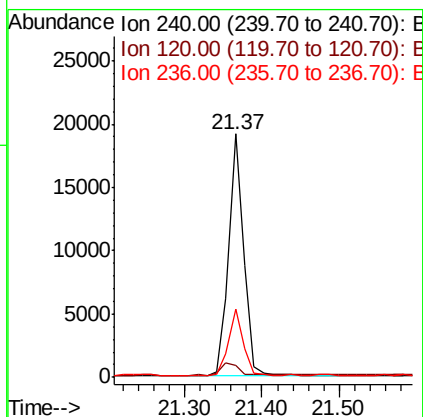
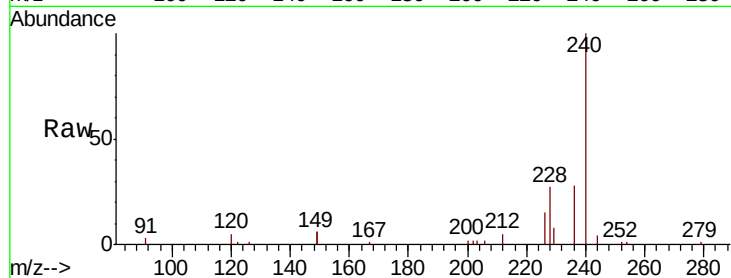
ClientSampleId :

PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.8	4.0	6.0
236	27.9	22.0	33.0

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#28

Pyrene

Concen: 0.847 ng

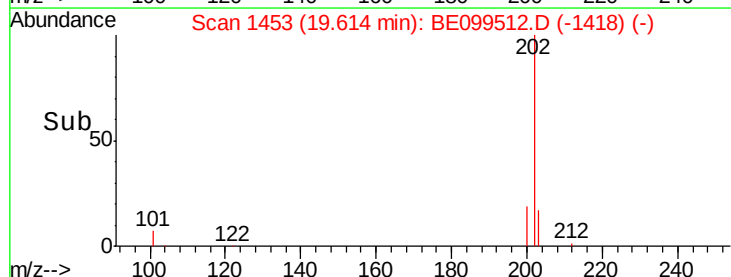
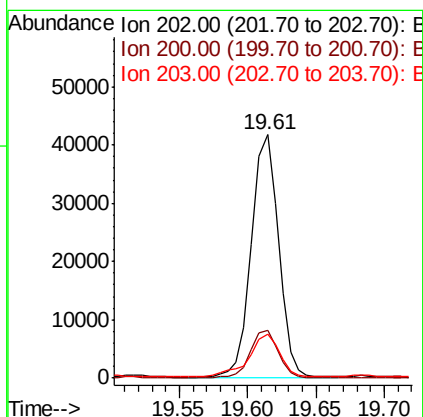
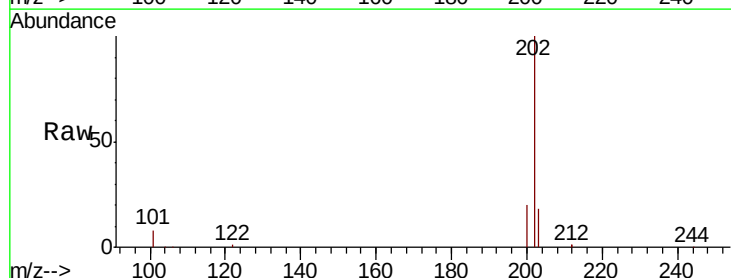
RT: 19.61 min Scan# 1453

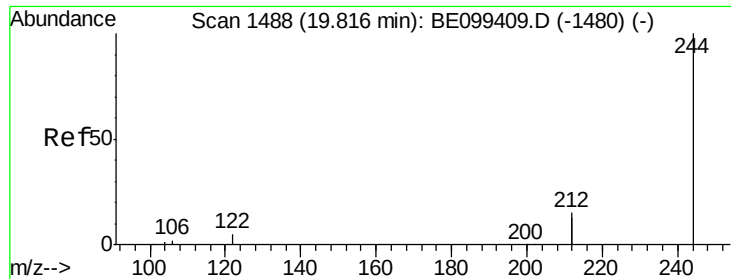
Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.7	23.5
203	20.2	13.9	20.9





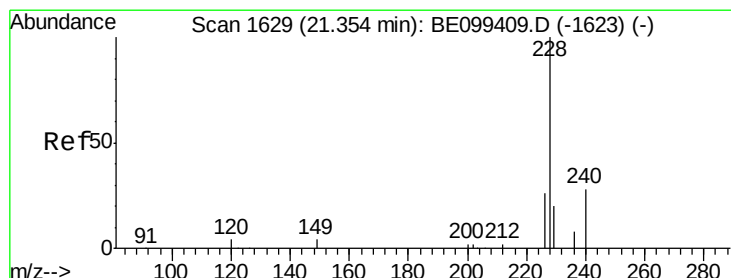
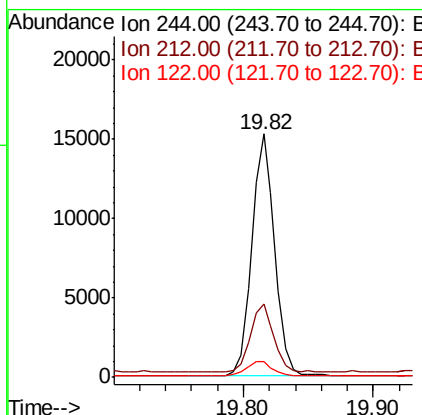
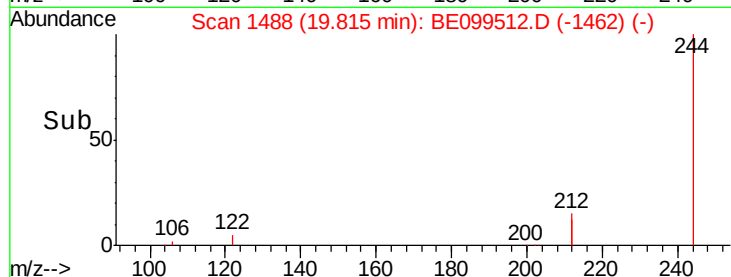
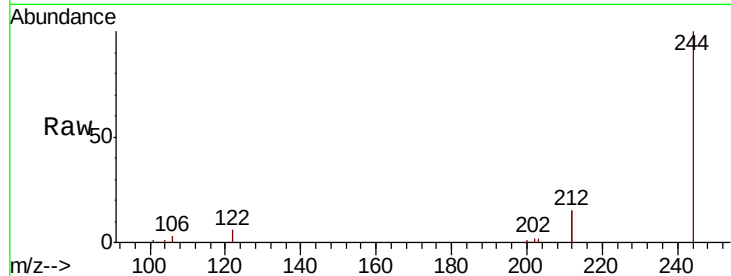
#29
 Terphenyl-d14
 Concen: 0.392 ng
 RT: 19.82 min Scan# 1488
 Delta R.T. -0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
244	100		
212	30.3	23.2	34.8
122	6.3	4.2	6.4

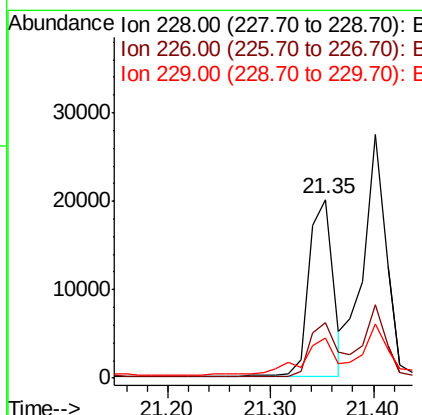
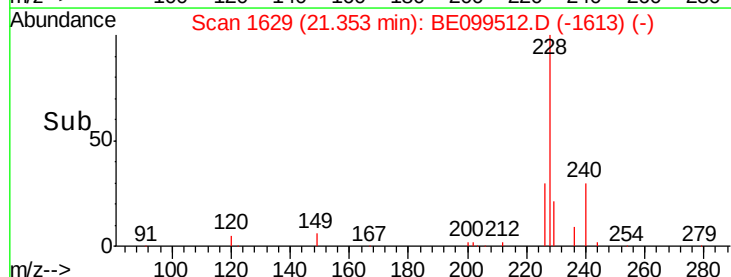
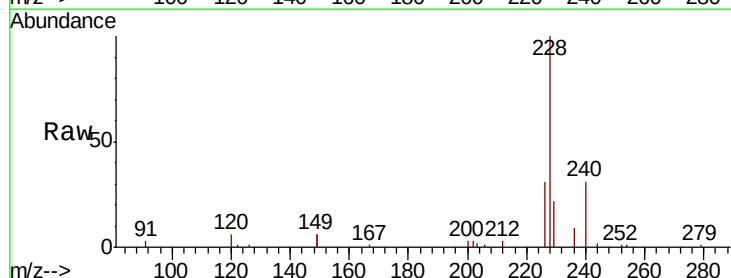
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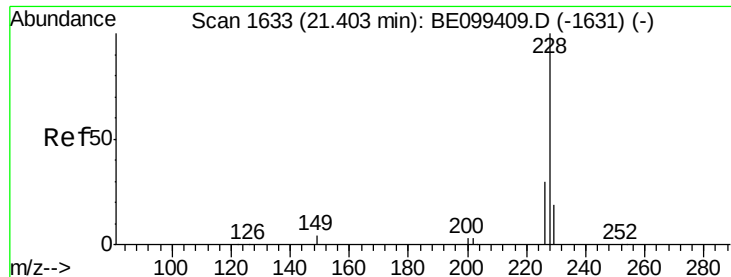
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#30
 Benzo(a)anthracene
 Concen: 0.397 ng
 RT: 21.35 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	21.0	31.6
229	22.4	16.6	25.0





#31

Chrysene

Concen: 0.528 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

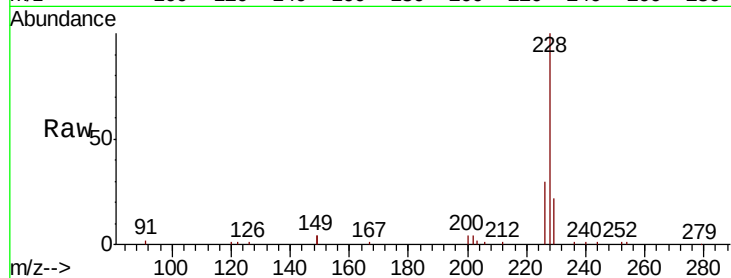
ClientSampleId :

PST-004-B166-042319

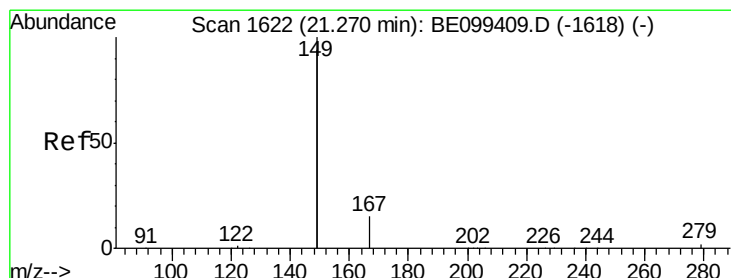
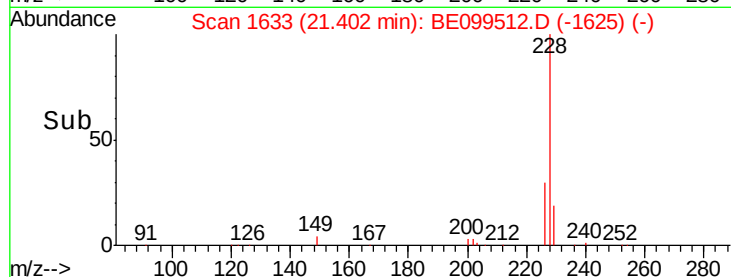
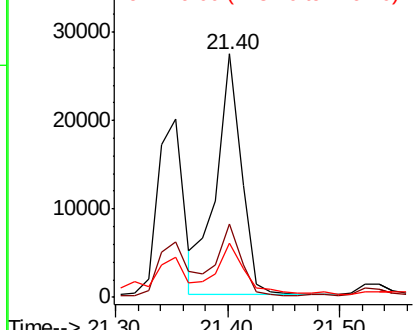
Tgt Ion:	228	Resp:	42641
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.0	36.0
229	22.2	15.8	23.8

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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: 0.154 ng

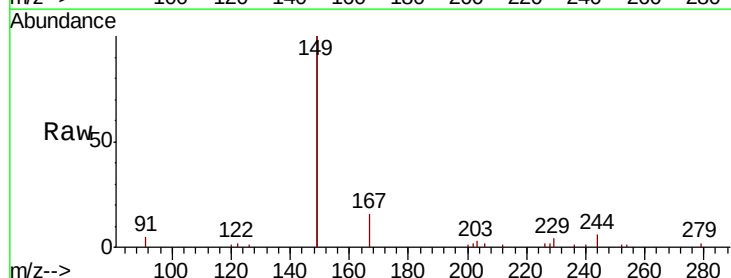
RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

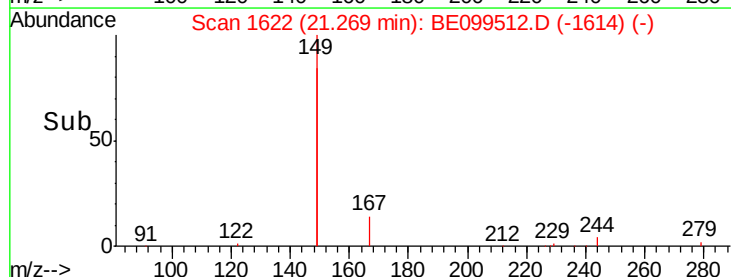
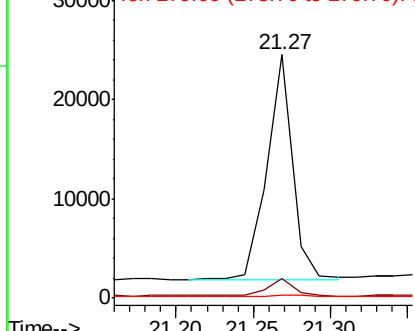
Lab File: BE099512.D

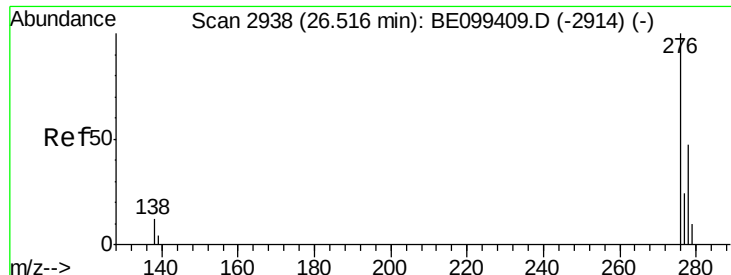
Acq: 3 May 2019 3:09

Tgt Ion:	149	Resp:	26326
Ion Ratio	Lower	Upper	
149	100		
167	7.5	5.8	8.6
279	1.6	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





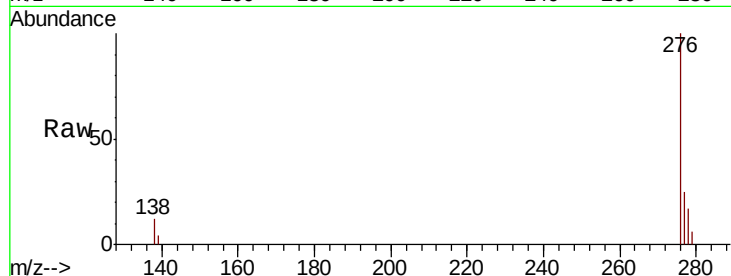
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.299 ng
 RT: 26.51 min Scan# 2936
 Delta R.T. -0.01 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-B166-042319

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	11.2	10.2	15.2
277	24.5	19.2	28.8

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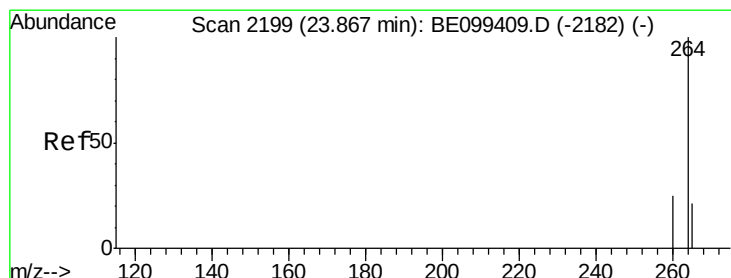
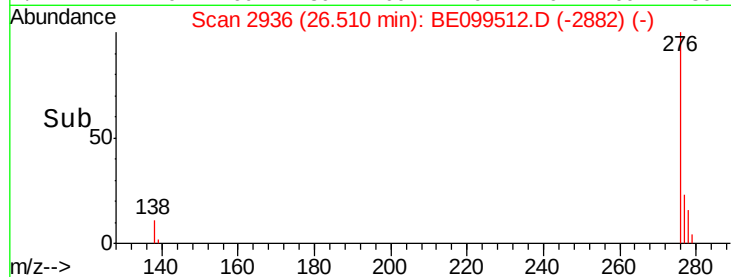
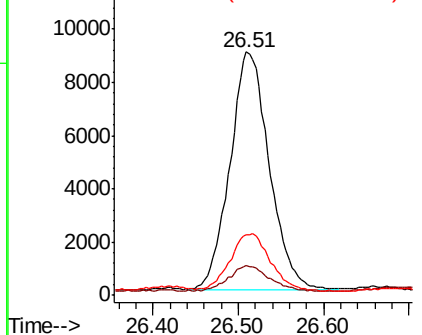


Abundance

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# 2200
 Delta R.T. 0.00 min
 Lab File: BE099512.D
 Acq: 3 May 2019 3:09

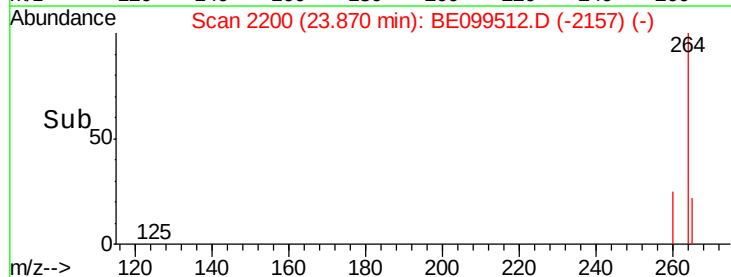
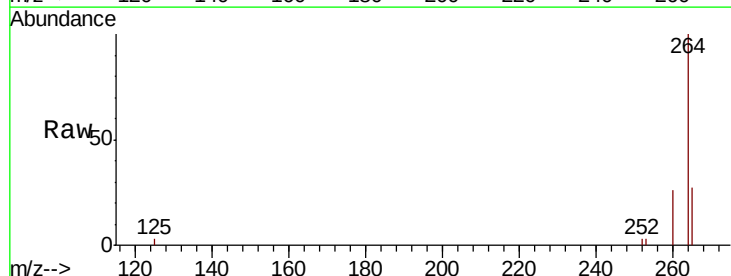
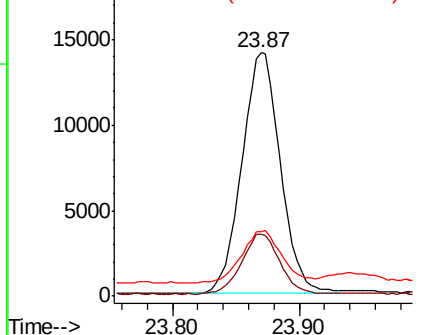
Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.6	20.2	30.2
265	26.6	21.3	31.9

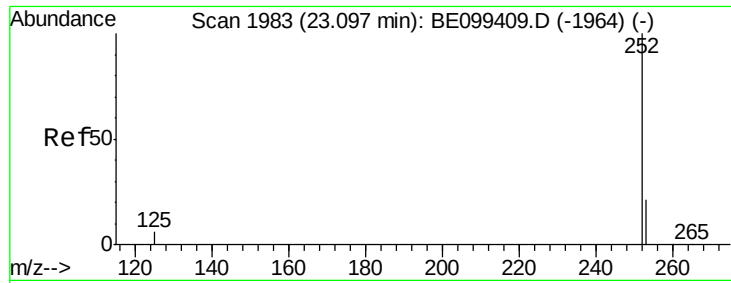
Abundance

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





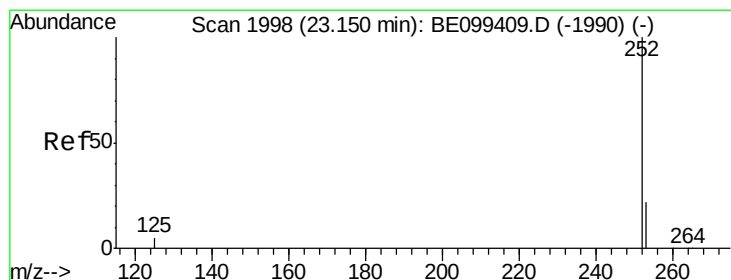
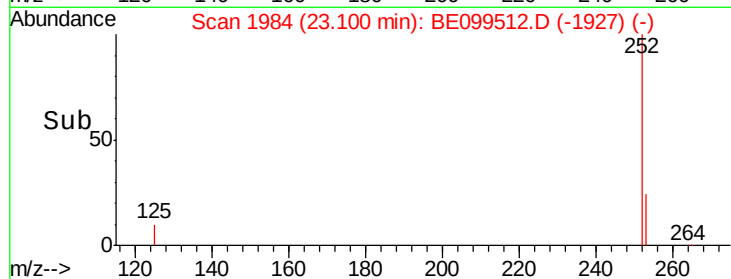
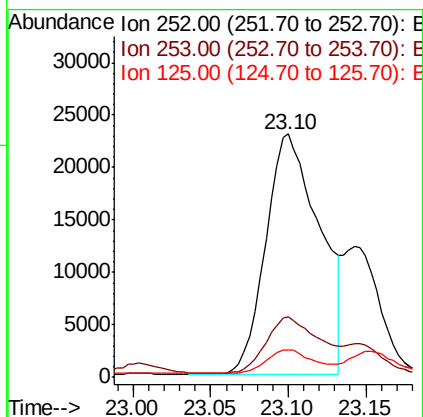
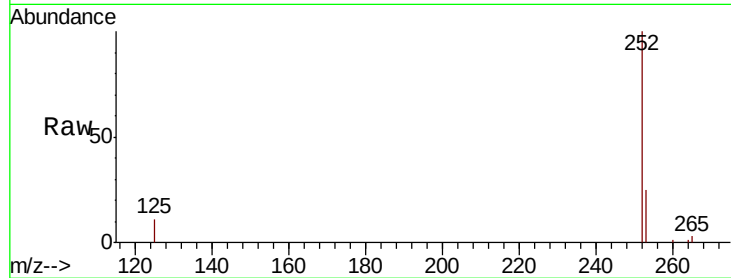
#35
Benzo(b)fluoranthene
Concen: 0.641 ng
RT: 23.10 min Scan# 1984
Delta R.T. 0.00 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

Instrument :
BNA_E
ClientSampleId :
PST-004-B166-042319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.1	27.1
125	11.4	5.6	8.4#

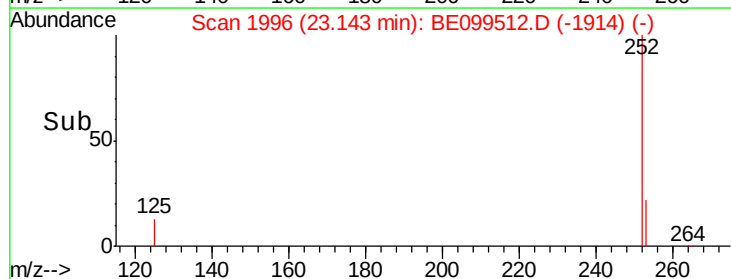
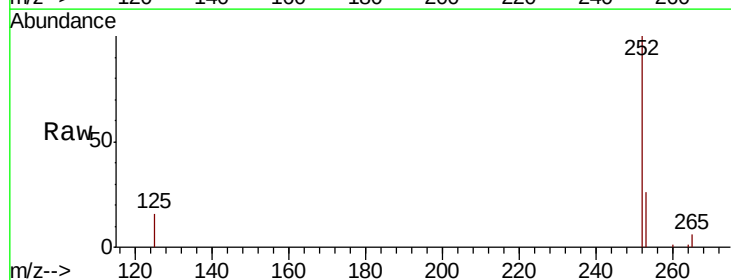
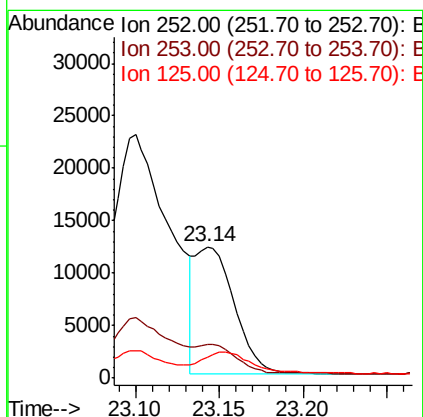
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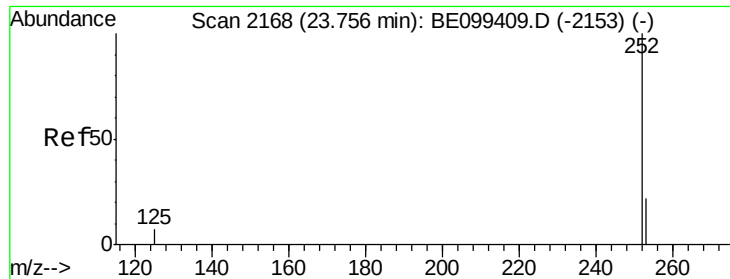
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#36
Benzo(k)fluoranthene
Concen: 0.242 ng m
RT: 23.14 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BE099512.D
Acq: 3 May 2019 3:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	18.4	27.6
125	15.8	5.0	7.4#





#37

Benzo(a)pyrene

Concen: 0.409 ng m

RT: 23.76 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Instrument :

BNA_E

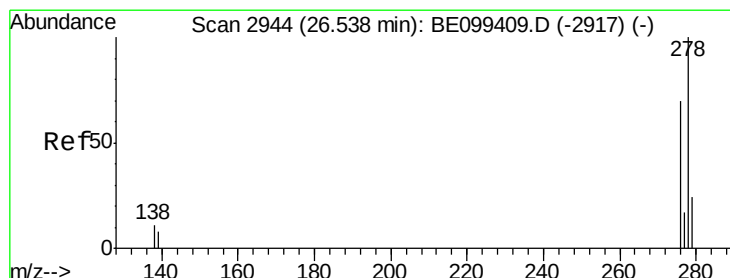
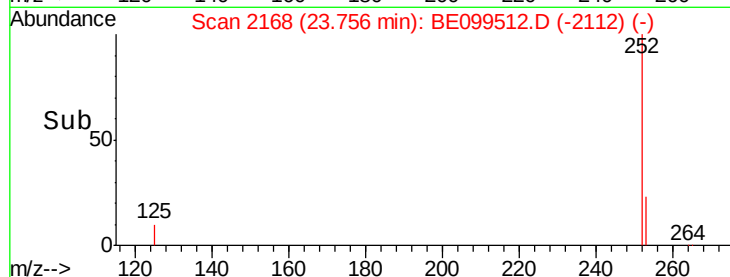
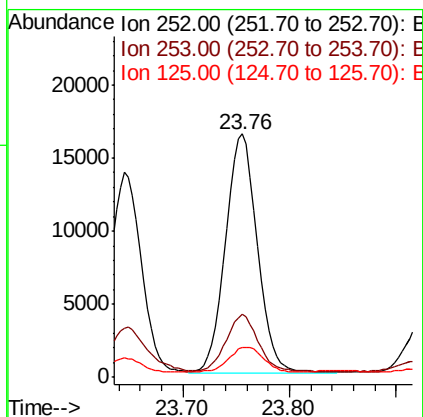
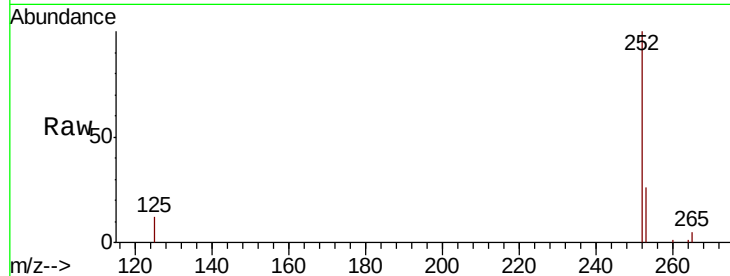
ClientSampleId :

PST-004-B166-042319

Tgt Ion:	252	Resp:	33465
Ion Ratio	Lower	Upper	
252	100		
253	25.8	18.9	28.3
125	12.3	6.7	10.1#

Manual Integrations
APPROVED

Sohil
5/3/2019 4:24:03 PM



#38

Dibenzo(a,h)anthracene

Concen: 0.086 ng

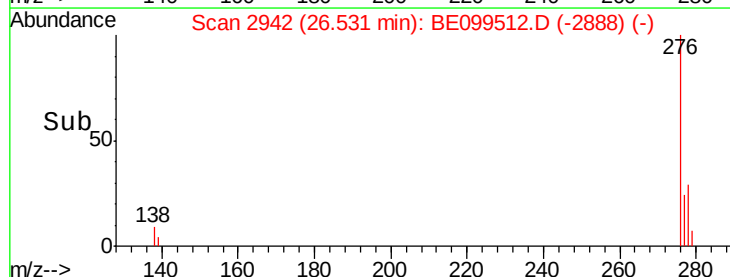
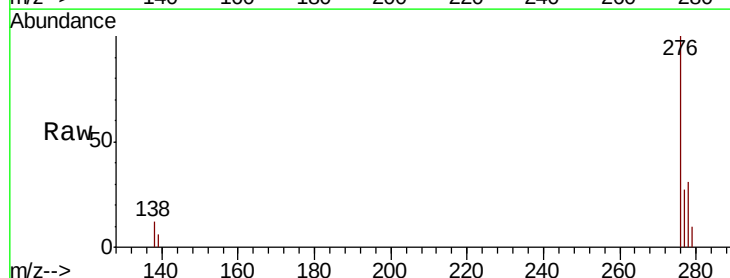
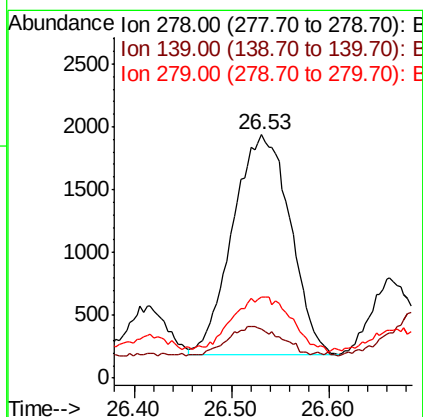
RT: 26.53 min Scan# 2942

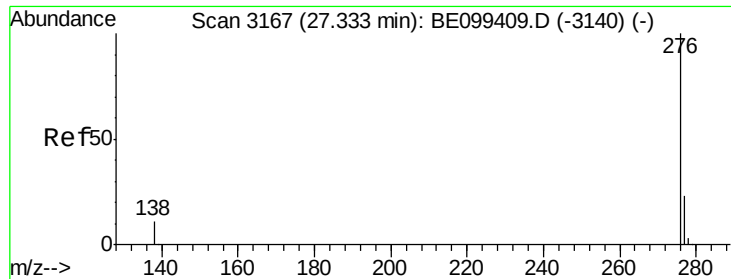
Delta R.T. -0.01 min

Lab File: BE099512.D

Acq: 3 May 2019 3:09

Tgt Ion:	278	Resp:	7169
Ion Ratio	Lower	Upper	
278	100		
139	20.3	7.7	11.5#
279	33.2	20.2	30.2#





#39

Benzo(g,h,i)perylene

Concen: 0.337 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099512.D

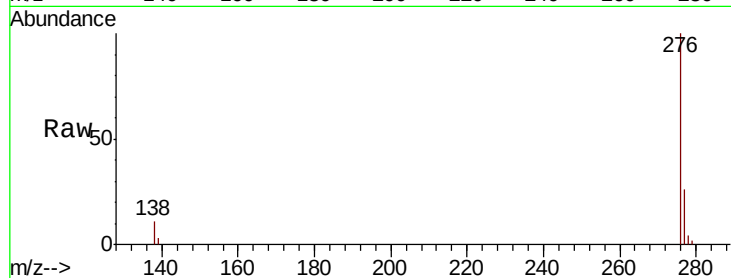
Acq: 3 May 2019 3:09

Instrument :

BNA_E

ClientSampleId :

PST-004-B166-042319



Tgt Ion:	276	Resp:	28216
Ion Ratio	Lower	Upper	
276	100		
277	25.5	19.5	29.3
138	11.4	9.6	14.4

Manual Integrations
APPROVED

Sohil
5/3/2019 4:24:03 PM

