

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE043019\
 Data File : BE099444.D
 Acq On : 1 May 2019 2:27
 Operator : JU/SJ
 Sample : K2568-20
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-023-SW096-042319

Manual Integrations
 APPROVED

Sohil
 5/1/2019 12:03:19 PM

Quant Time: May 01 07:22:23 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	7.82	152	2290	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	8871	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7100	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	23276	0.40	ng	0.00
27) Chrysene-d12	21.37	240	30216	0.40	ng	0.00
34) Perylene-d12	23.87	264	33994	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	1999	0.32	ng	0.00
5) Phenol-d6	6.97	99	3044	0.36	ng	0.00
8) Nitrobenzene-d5	8.96	82	2609	0.31	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	4571	0.29	ng	0.00
14) 2,4,6-Tribromophenol	15.93	330	1580	0.35	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	6409	0.24	ng	-0.01
25) Fluoranthene-d10	19.22	212	62358	0.20	ng	0.00
29) Terphenyl-d14	19.81	244	12316	0.22	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	5042	0.052	ng	# 96
12) 2-Methylnaphthalene	12.27	142	876	0.052	ng	# 93
16) Acenaphthylene	14.18	152	3209	0.092	ng	96
18) Fluorene	15.49	166	851	0.029	ng	# 95
23) Phenanthrene	17.23	178	26962	0.449	ng	99
24) Anthracene	17.32	178	3055	0.053	ng	# 89
26) Fluoranthene	19.25	202	65945	0.733	ng	99
28) Pyrene	19.61	202	68511	0.870	ng	96
30) Benzo(a)anthracene	21.34	228	39929	0.415	ng	93
31) Chrysene	21.40	228	48209m	0.512	ng	
32) Bis(2-ethylhexyl)phthalate	21.27	149	45379	0.262	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.51	276	28237	0.254	ng	97
35) Benzo(b)fluoranthene	23.10	252	54565	0.557	ng	# 86
36) Benzo(k)fluoranthene	23.14	252	20209m	0.214	ng	
37) Benzo(a)pyrene	23.75	252	37090	0.400	ng	# 89
38) Dibenzo(a,h)anthracene	26.53	278	7772	0.082	ng	# 48
39) Benzo(g,h,i)perylene	27.33	276	29588	0.312	ng	# 90

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

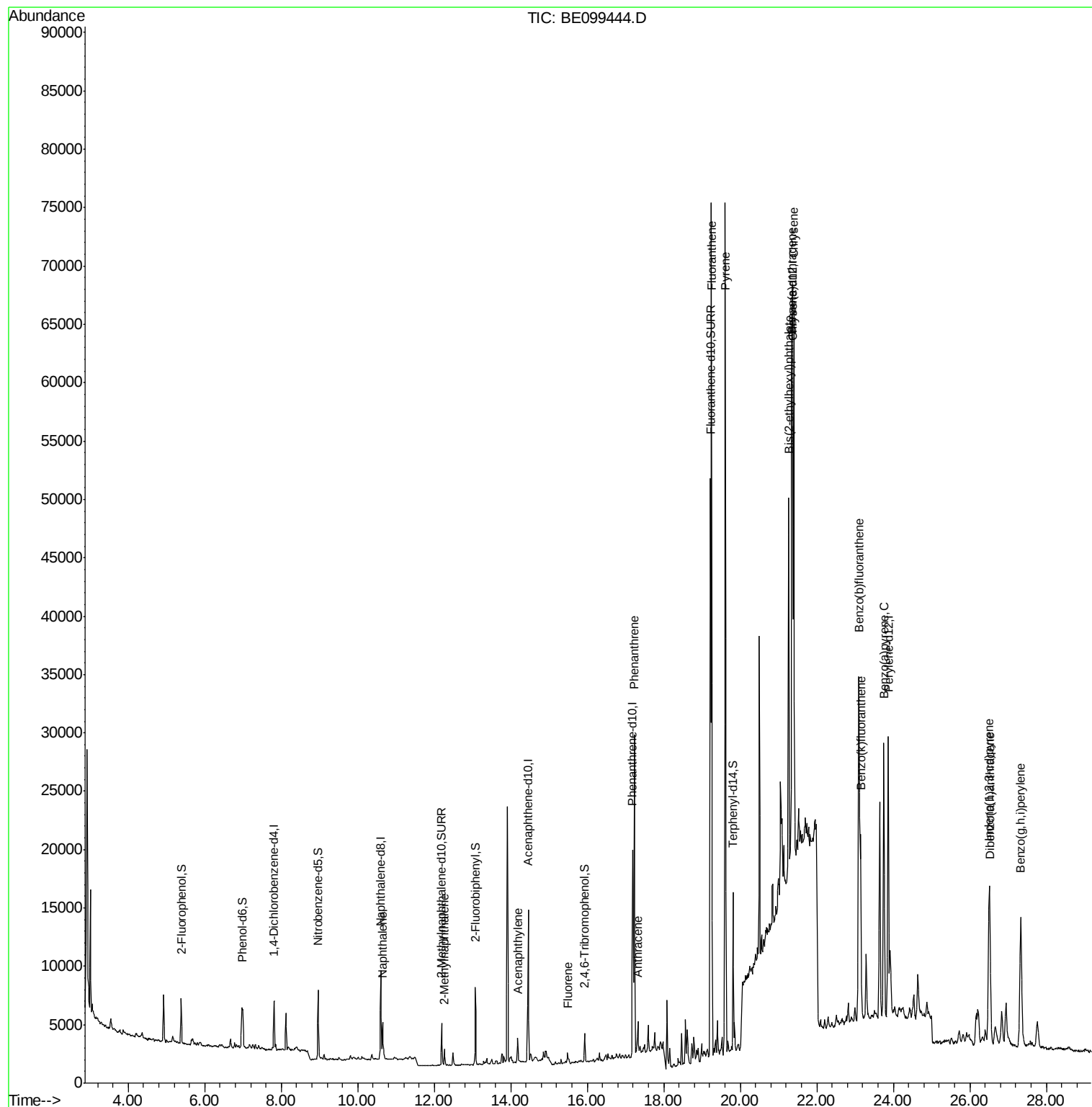
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099444.D

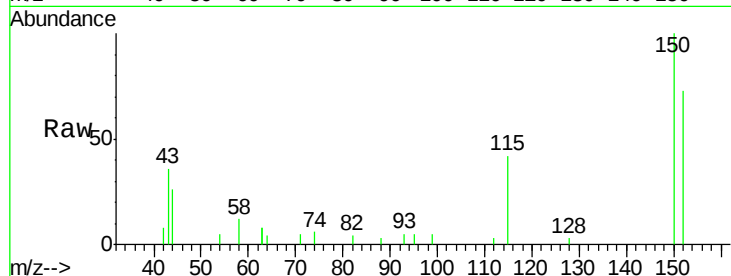
Acq: 1 May 2019 2:27

Instrument :

BNA_E

ClientSampleId :

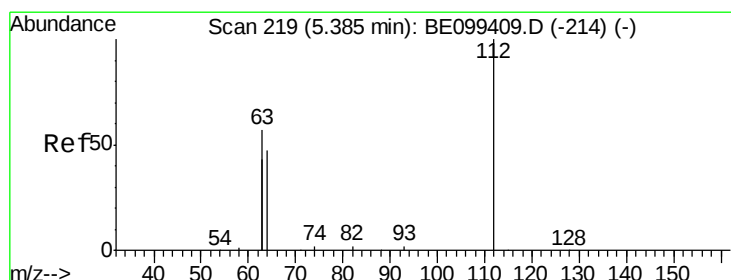
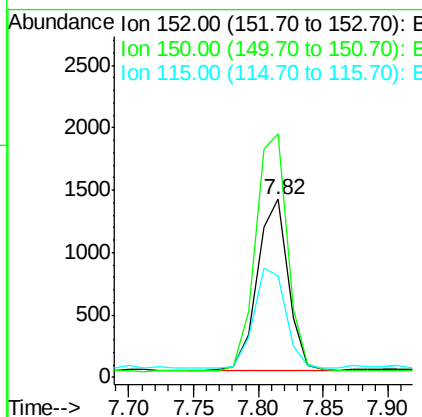
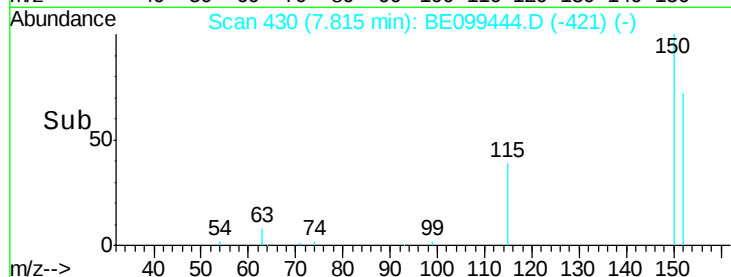
PST-023-SW096-042319



Tgt Ion:	152	Resp:	2290
Ion Ratio	Lower	Upper	
152	100		
150	137.0	104.8	157.2
115	57.2	46.6	69.8

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#4

2-Fluorophenol

Concen: 0.316 ng

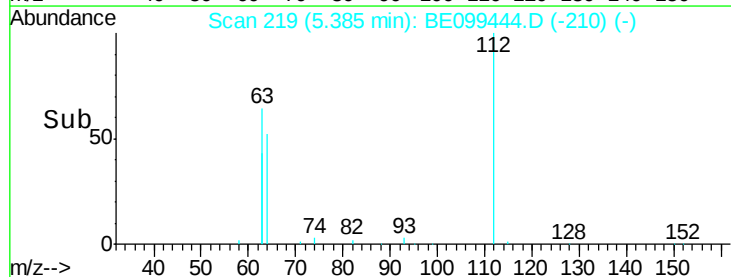
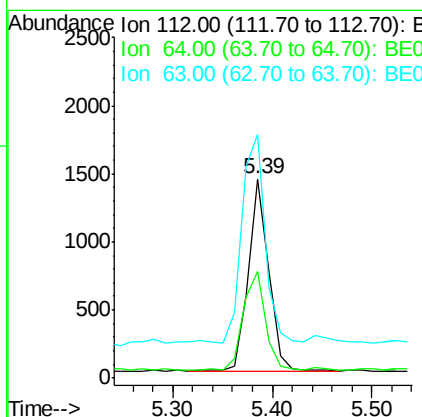
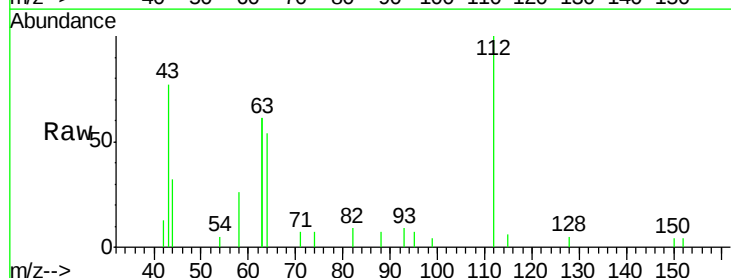
RT: 5.39 min Scan# 219

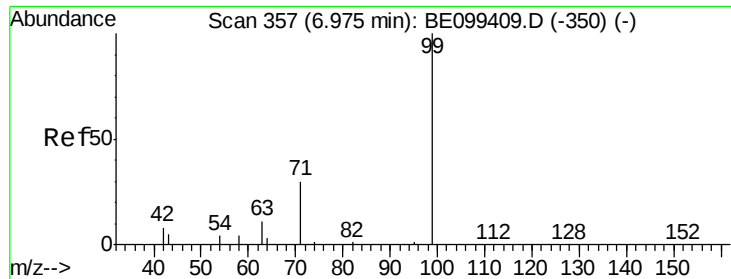
Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	112	Resp:	1999
Ion Ratio	Lower	Upper	
112	100		
64	55.5	47.4	71.0
63	122.8	104.3	156.5





#5

Phenol-d6

Concen: 0.361 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

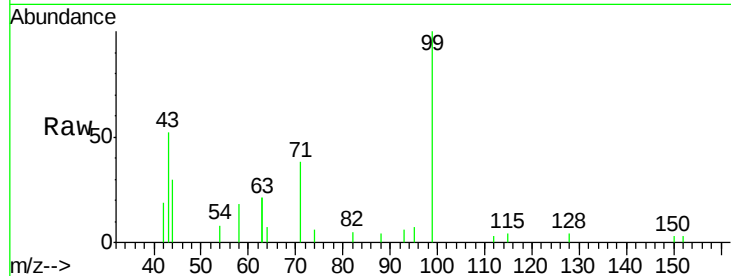
ClientSampleId :

PST-023-SW096-042319

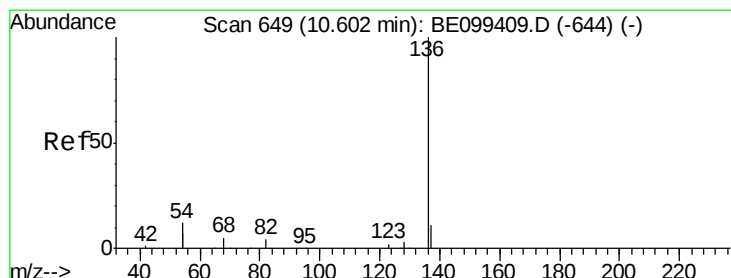
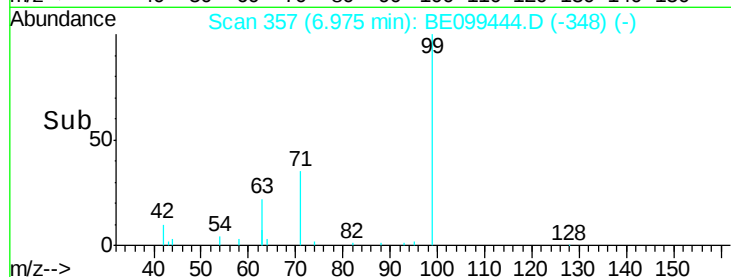
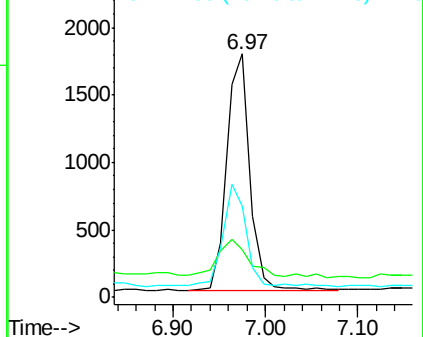
Tgt Ion:	99	Resp:	3044
Ion	Ratio	Lower	Upper
99	100		
42	20.1	14.9	22.3
71	41.6	33.0	49.6

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

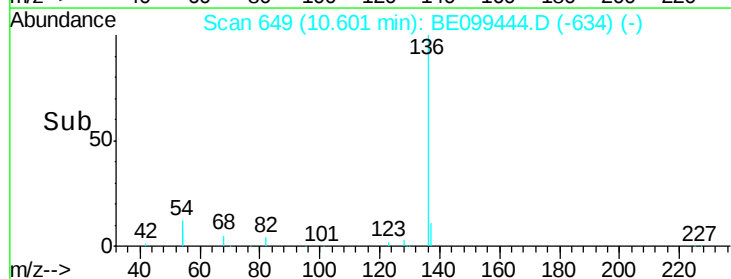
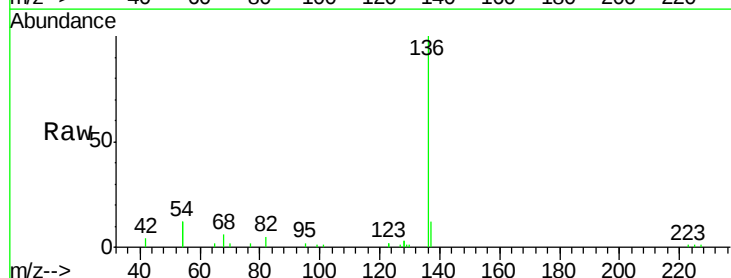
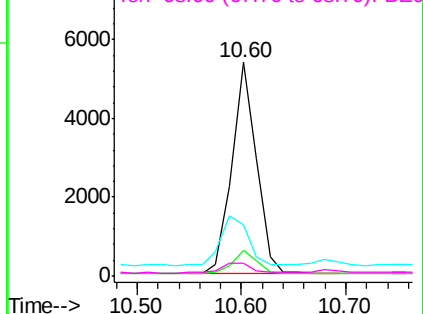
Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	136	Resp:	8871
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.8	14.8
54	24.1	18.5	27.7
68	6.0	4.7	7.1

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.314 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

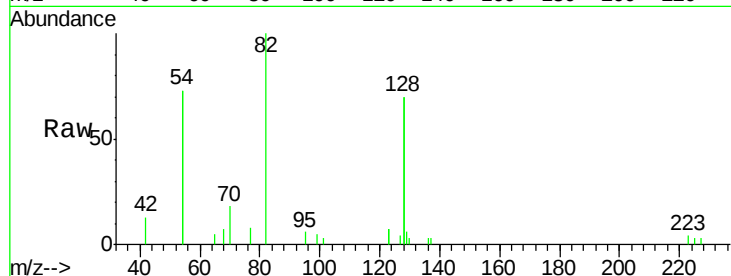
ClientSampleId :

PST-023-SW096-042319

Tgt Ion:	82	Resp:	2609
Ion Ratio	Lower	Upper	
82	100		
128	140.8	107.0	160.4
54	145.9	113.1	169.7

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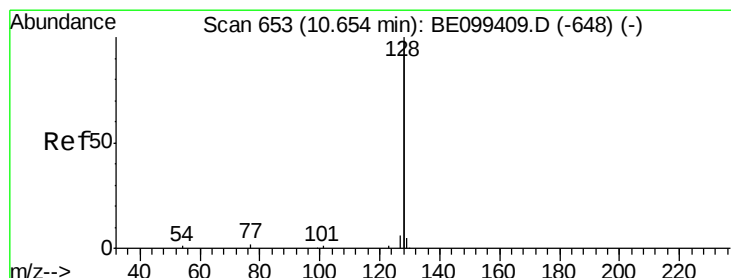
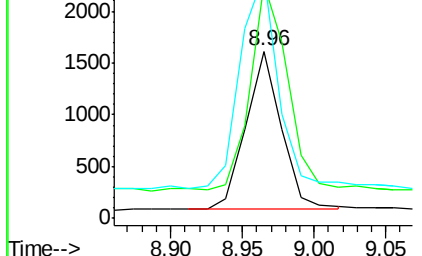
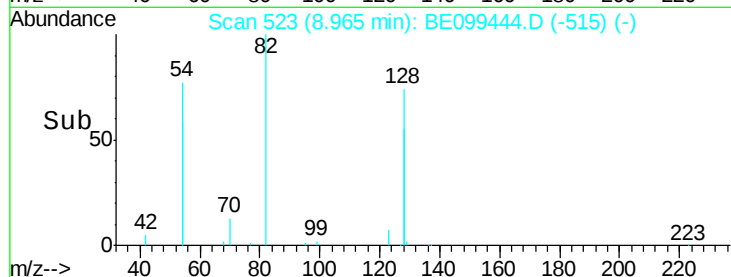


Abundance Ion 82.00 (81.70 to 82.70): BE099444.D (-515) (-)

Ion 128.00 (127.70 to 128.70): BE099444.D (-515) (-)

Ion 54.00 (53.70 to 54.70): BE099444.D (-515) (-)

Time-->



#9

Naphthalene

Concen: 0.052 ng

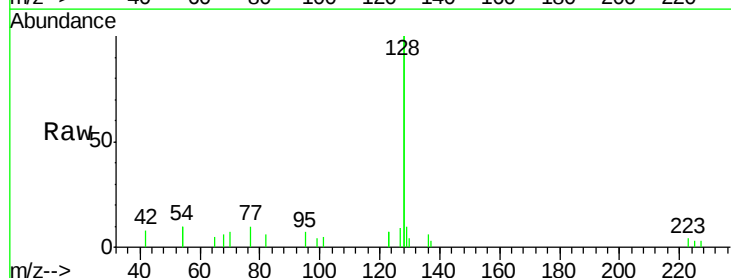
RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	128	Resp:	5042
Ion Ratio	Lower	Upper	
128	100		
129	4.8	2.4	3.6#
127	4.6	2.8	4.2#

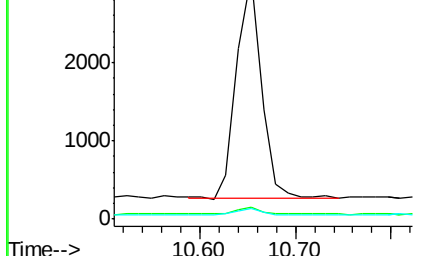
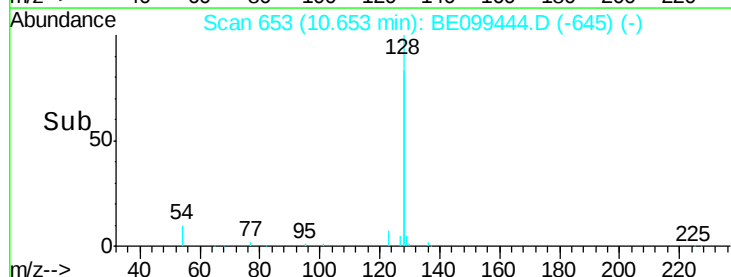


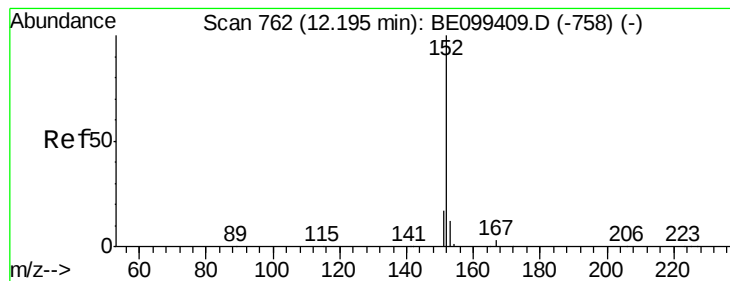
Abundance Ion 128.00 (127.70 to 128.70): BE099444.D (-645) (-)

Ion 129.00 (128.70 to 129.70): BE099444.D (-645) (-)

Ion 127.00 (126.70 to 127.70): BE099444.D (-645) (-)

Time-->





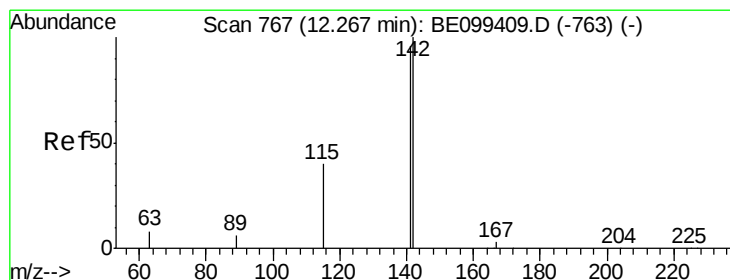
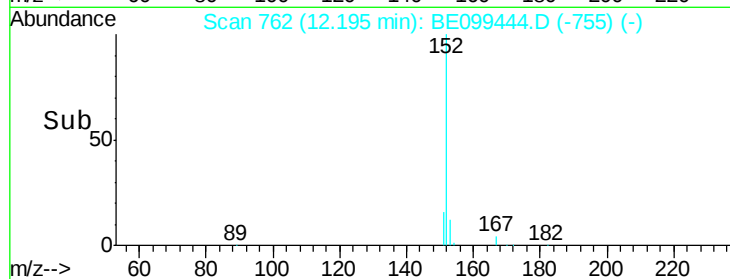
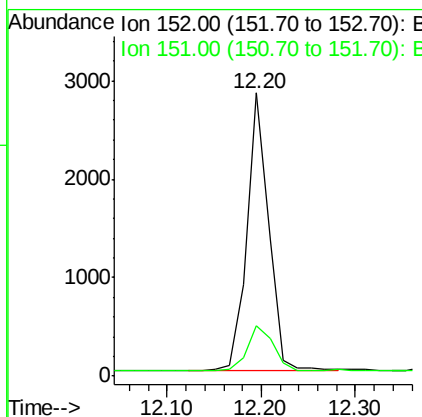
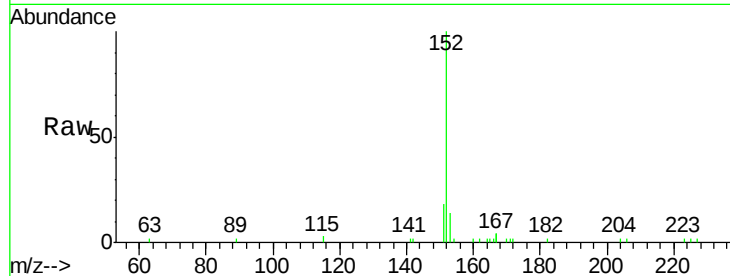
#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 12.20 min Scan# 762
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Instrument :
BNA_E
ClientSampleId :
PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3

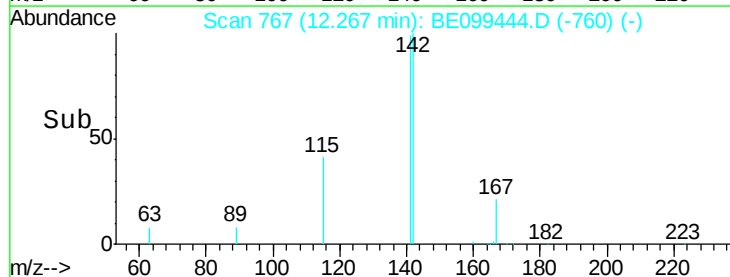
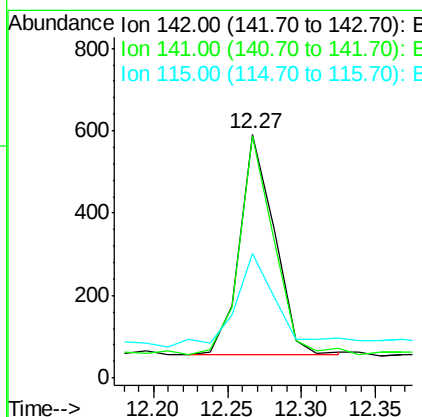
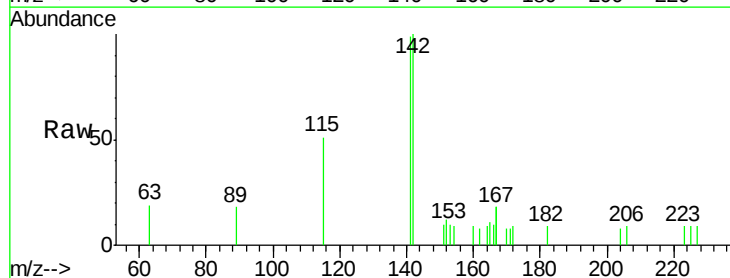
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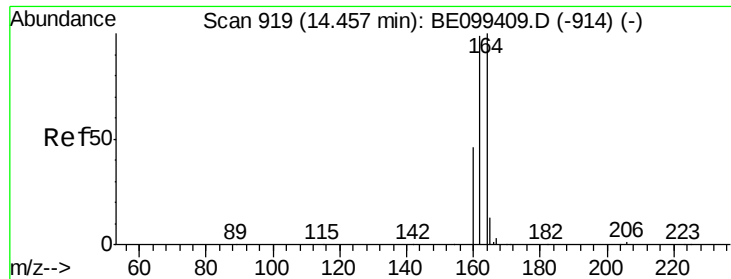
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#12
2-Methylnaphthalene
Concen: 0.052 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	99.3	77.0	115.4
115	51.1	33.4	50.0#





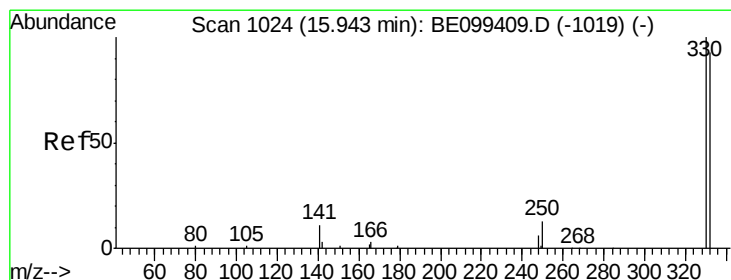
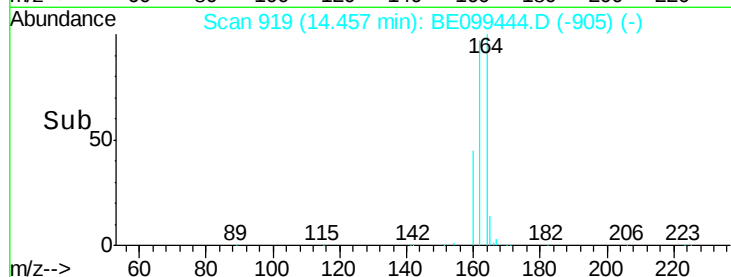
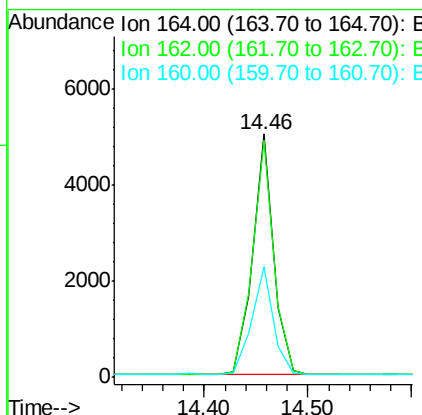
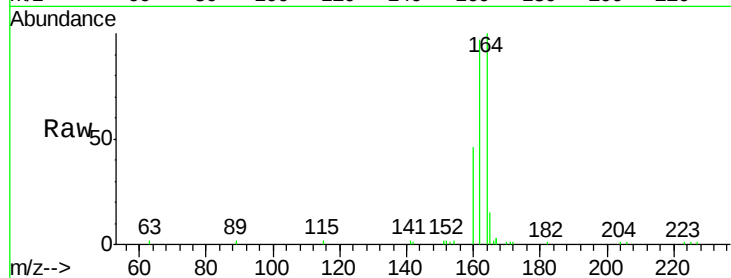
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Instrument :
BNA_E
ClientSampleId :
PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.2	79.0	118.4
160	45.5	37.0	55.4

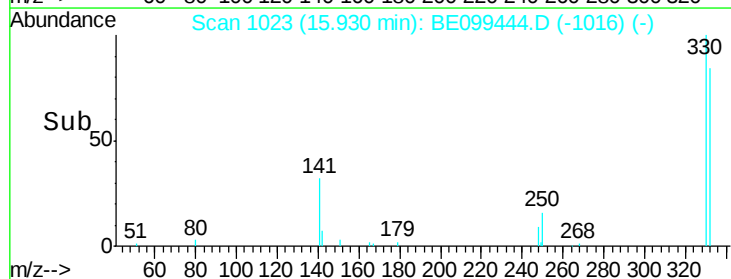
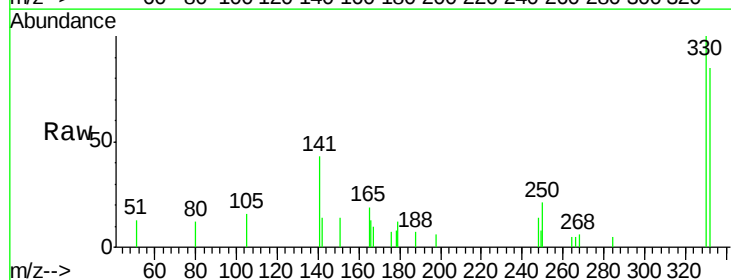
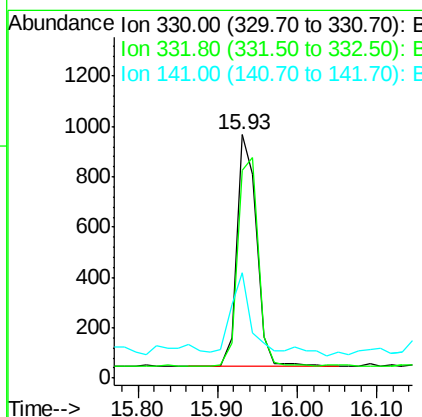
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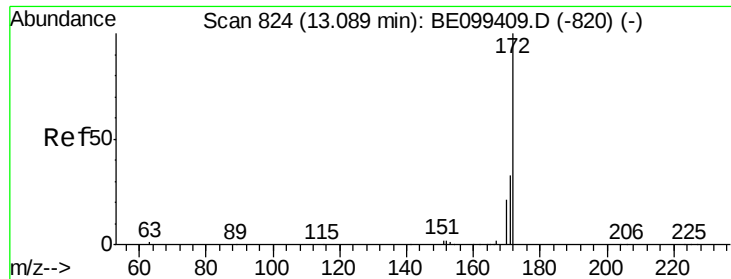
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#14
2,4,6-Tribromophenol
Concen: 0.353 ng
RT: 15.93 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.9	71.5	107.3
141	32.2	24.0	36.0





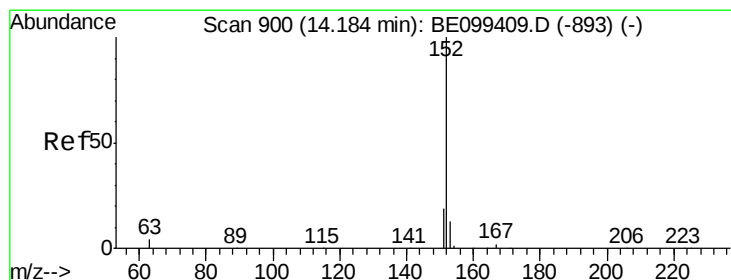
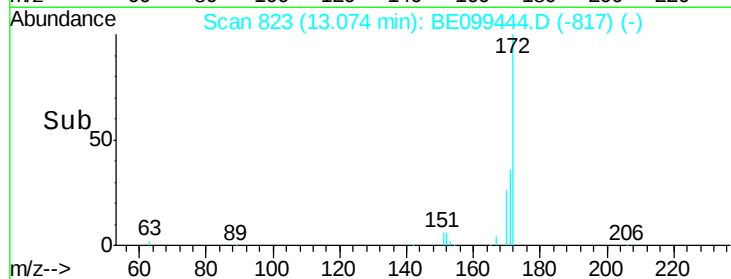
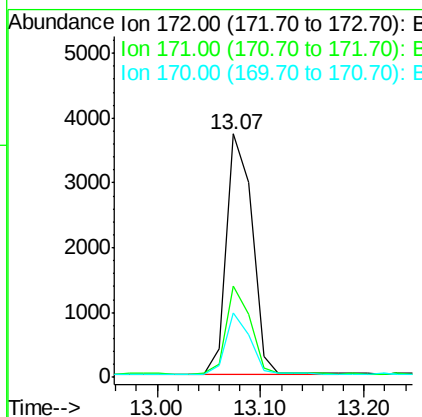
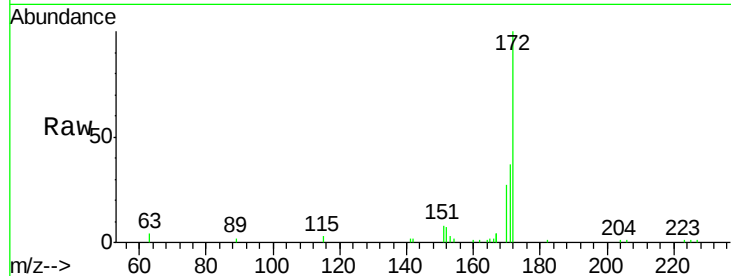
#15
2-Fluorobiphenyl
Concen: 0.237 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Instrument :
BNA_E
ClientSampleId :
PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	26.6	39.8
170	26.5	17.0	25.6

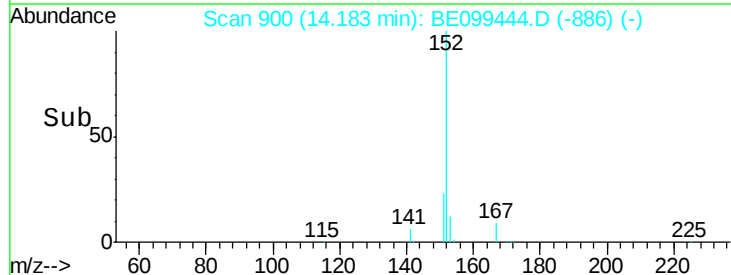
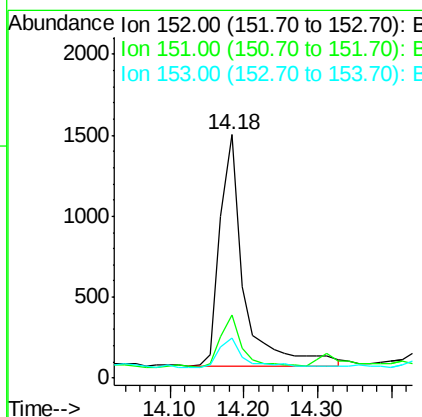
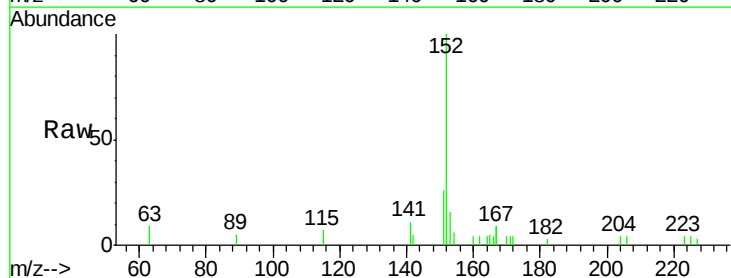
Manual Integrations
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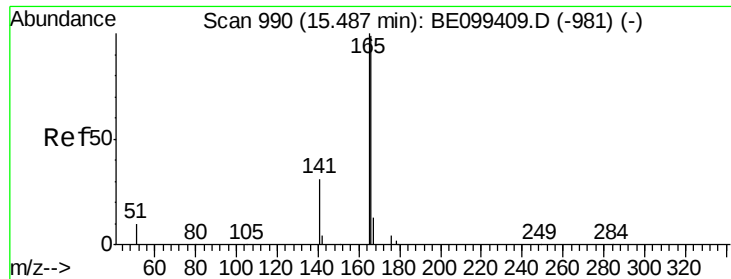
Sohil
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#16
Acenaphthylene
Concen: 0.092 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.4	23.2
153	14.1	9.8	14.6





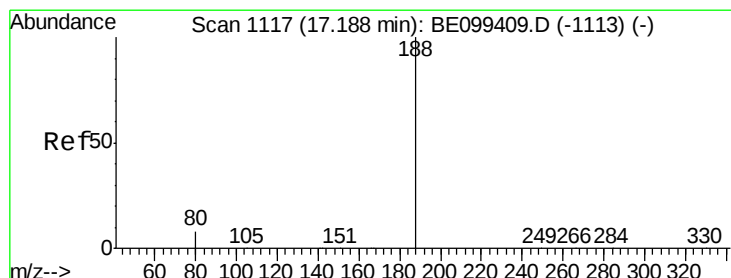
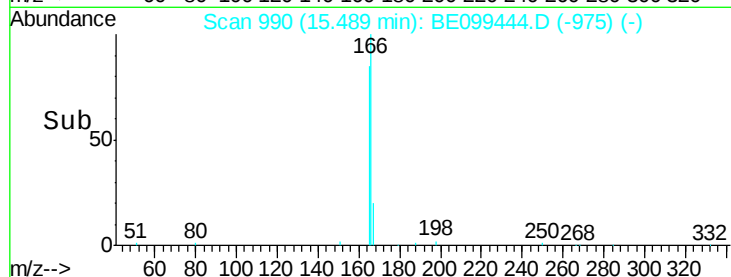
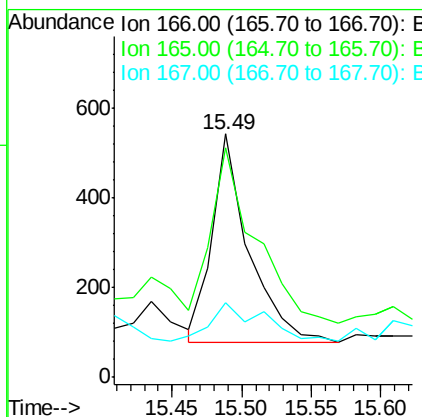
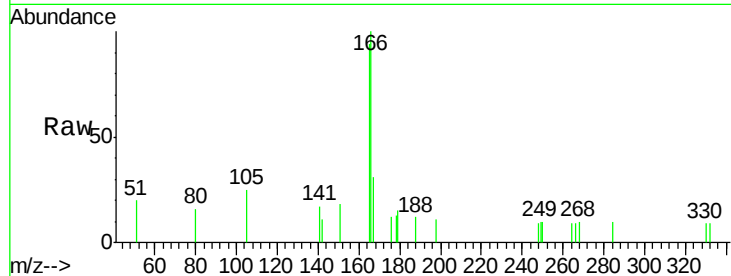
#18
Fluorene
 Concen: 0.029 ng
 RT: 15.49 min Scan# 990
 Delta R.T. 0.00 min
 Lab File: BE099444.D
 Acq: 1 May 2019 2:27

Instrument :
 BNA_E
 ClientSampleId :
 PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.9	80.3	120.5
167	27.5	10.7	16.1#

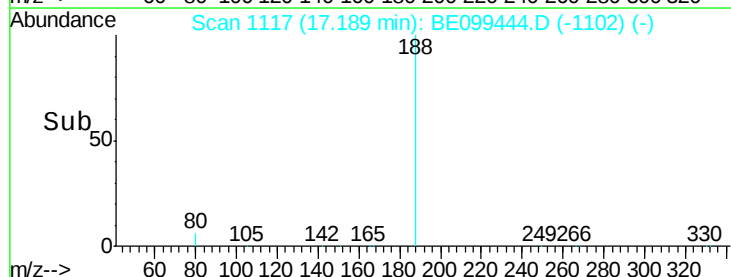
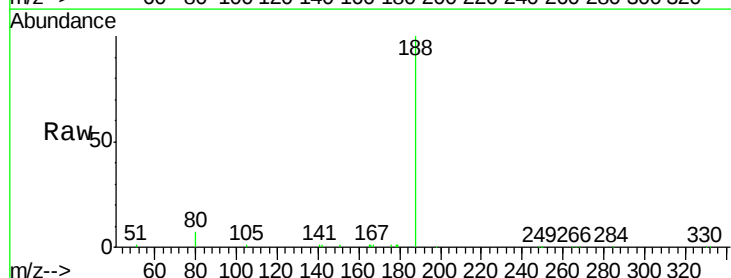
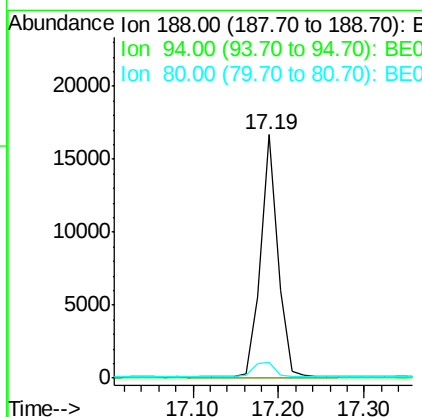
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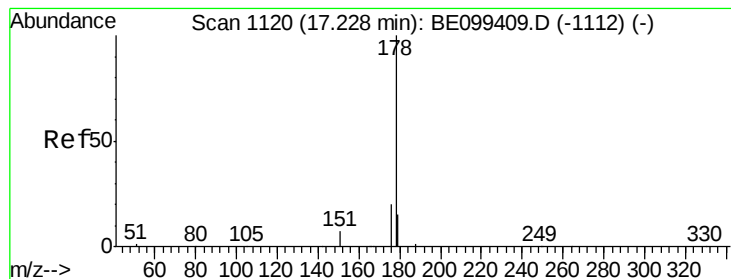
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. 0.00 min
 Lab File: BE099444.D
 Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.6	6.7	10.1#





#23

Phenanthrene

Concen: 0.449 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

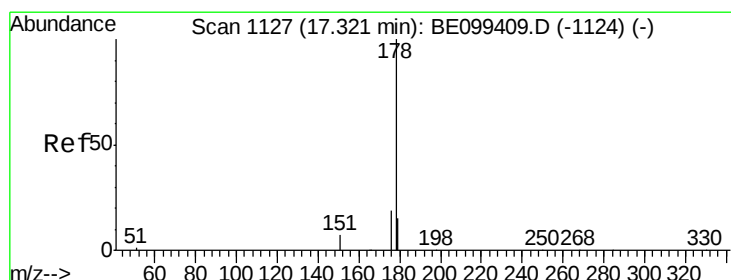
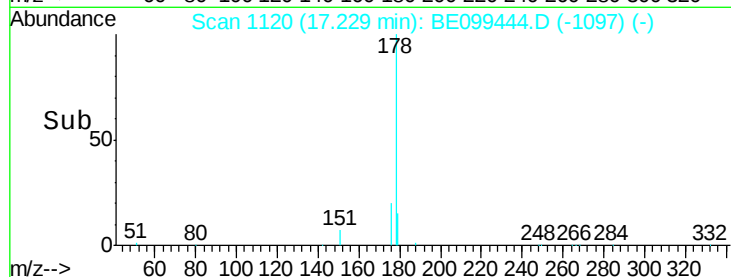
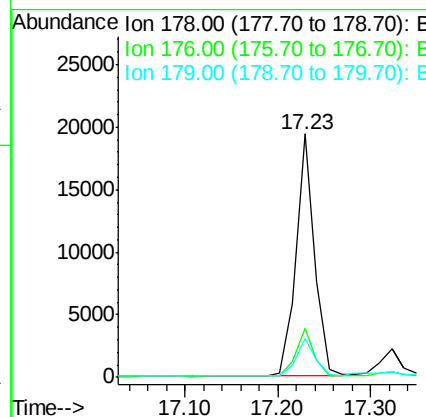
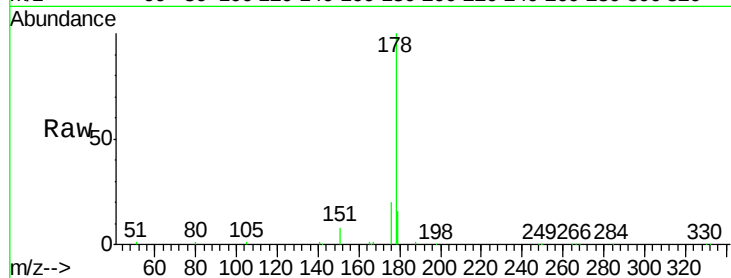
ClientSampleId :

PST-023-SW096-042319

Tgt Ion:	178	Resp:	26962
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.6	23.4
179	16.0	12.0	18.0

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#24

Anthracene

Concen: 0.053 ng

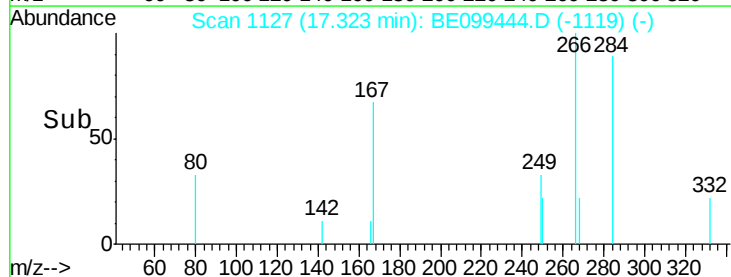
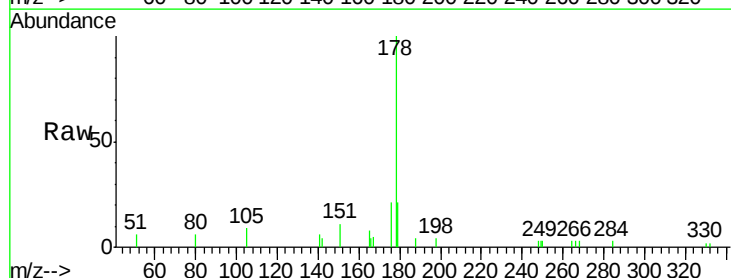
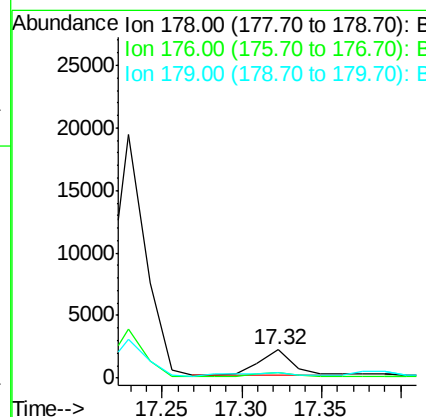
RT: 17.32 min Scan# 1127

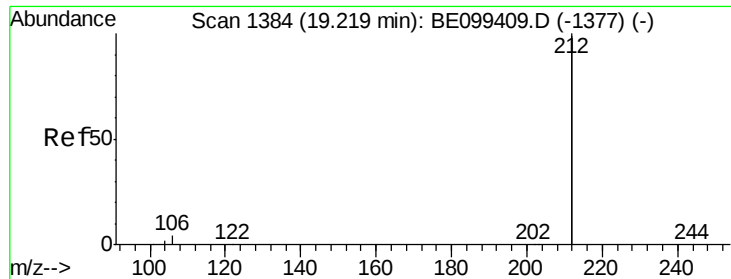
Delta R.T. 0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	178	Resp:	3055
Ion Ratio	Lower	Upper	
178	100		
176	20.6	14.9	22.3
179	22.4	11.9	17.9#





#25

Fluoranthene-d10

Concen: 0.199 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

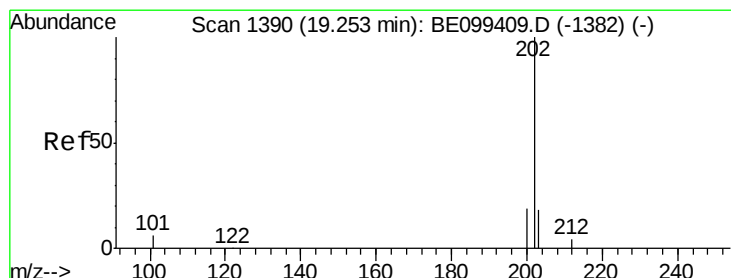
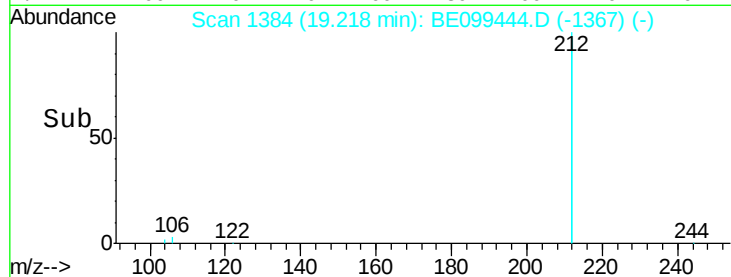
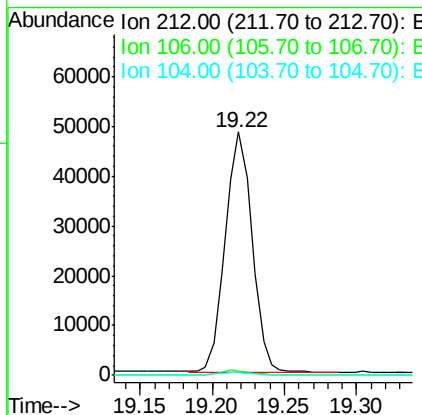
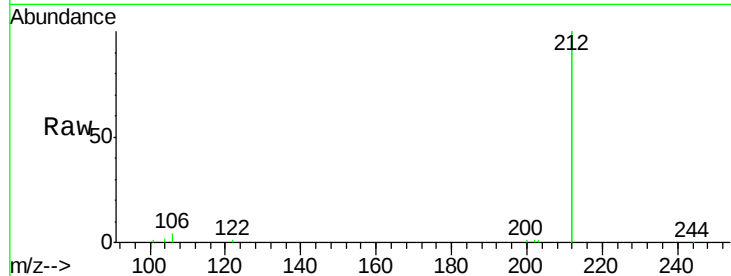
ClientSampleId :

PST-023-SW096-042319

Tgt Ion	Ratio	Resp	Lower	Upper
212	100	62358		
106	1.9		1.5	2.3
104	1.1		0.9	1.3

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#26

Fluoranthene

Concen: 0.733 ng

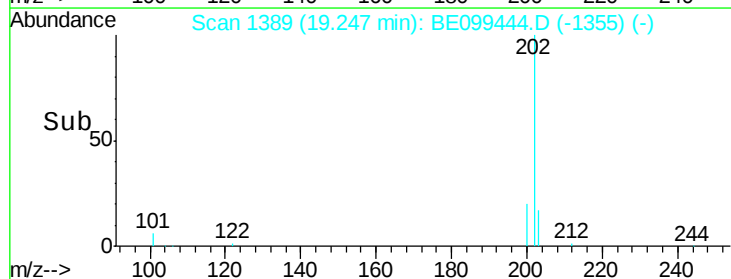
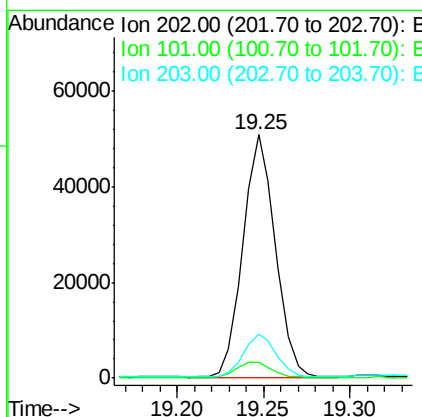
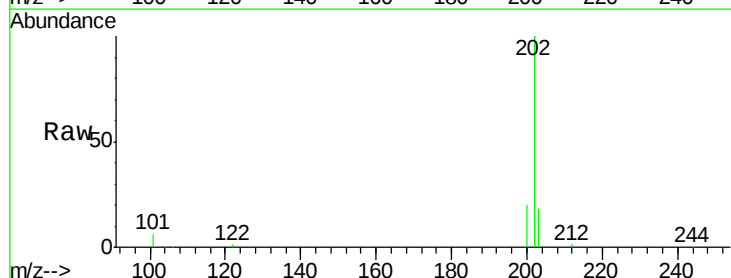
RT: 19.25 min Scan# 1389

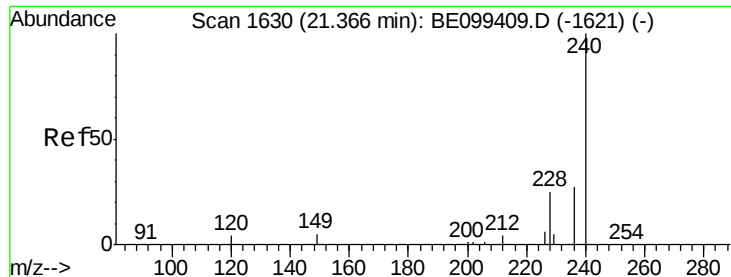
Delta R.T. -0.01 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	65945		
101	6.9		5.4	8.0
203	17.6		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: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

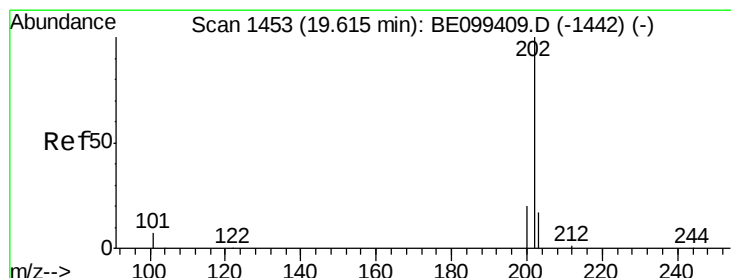
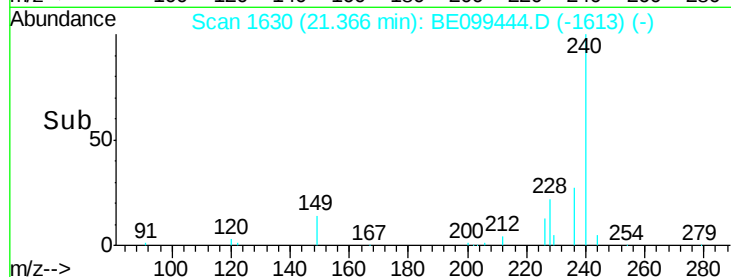
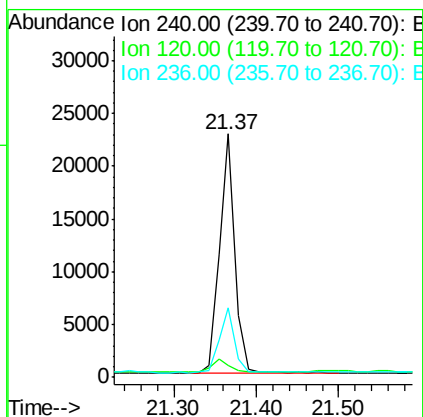
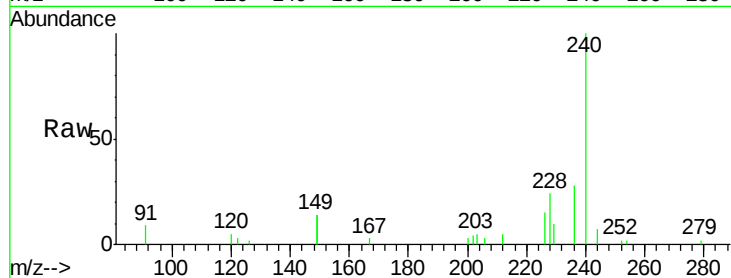
ClientSampleId :

PST-023-SW096-042319

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	30216		
120	4.8	4.0	6.0	
236	28.5	22.0	33.0	

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#28

Pyrene

Concen: 0.870 ng

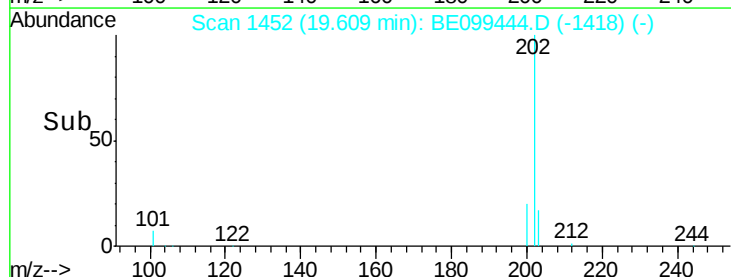
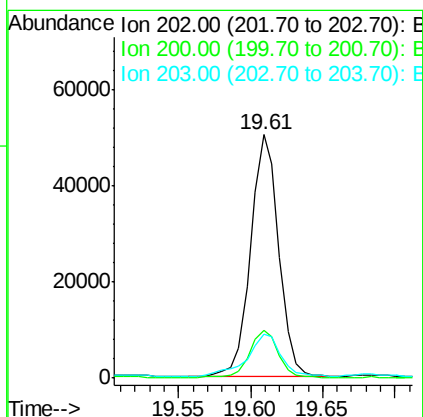
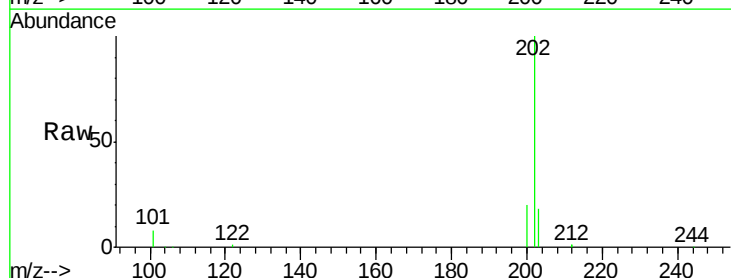
RT: 19.61 min Scan# 1452

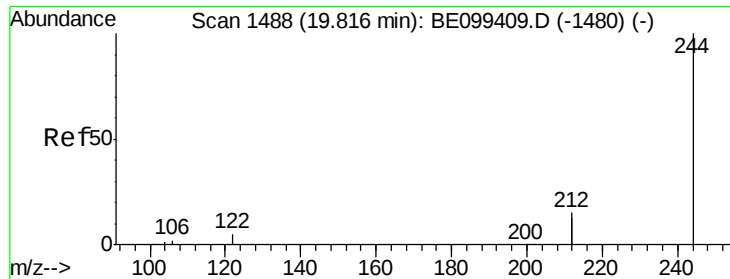
Delta R.T. -0.01 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	68511		
200	19.8	15.7	23.5	
203	20.8	13.9	20.9	





#29

Terphenyl-d14

Concen: 0.223 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099444.D

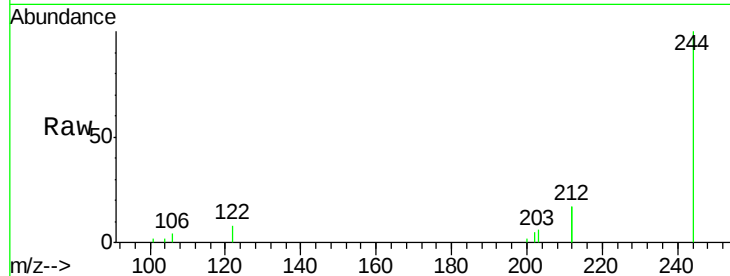
Acq: 1 May 2019 2:27

Instrument :

BNA_E

ClientSampleId :

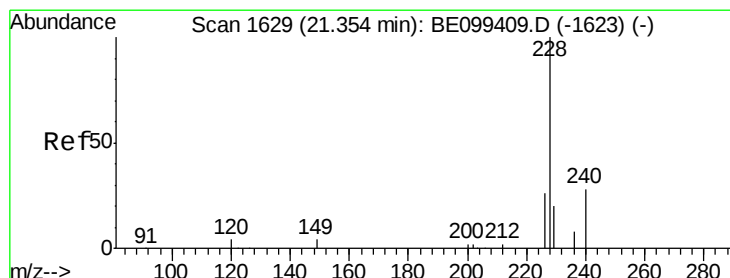
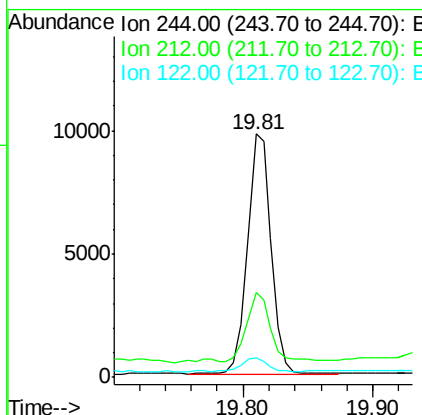
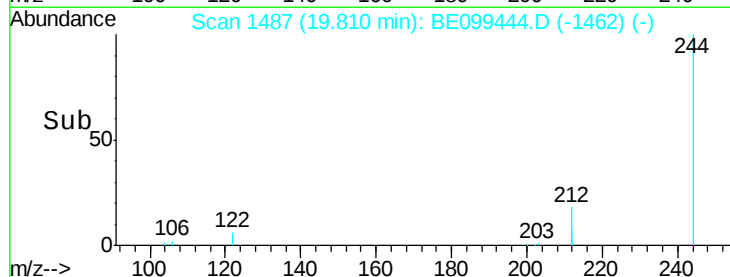
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Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	34.9	23.2	34.8	
122	8.2	4.2	6.4	

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#30

Benzo(a)anthracene

Concen: 0.415 ng

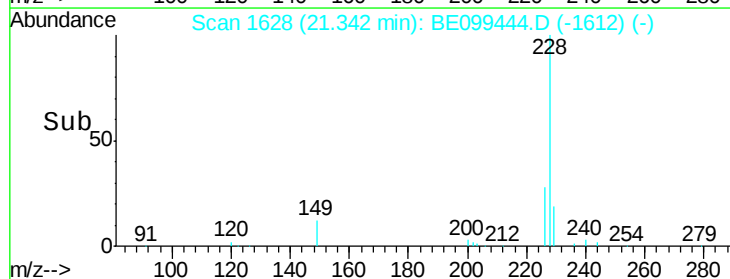
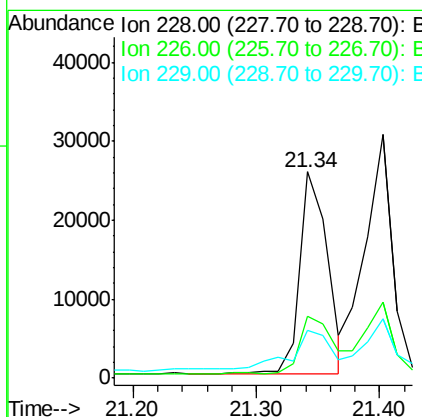
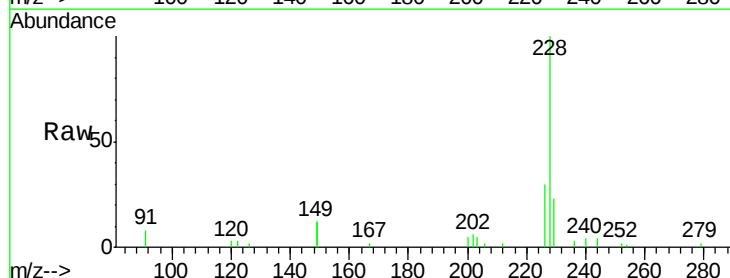
RT: 21.34 min Scan# 1628

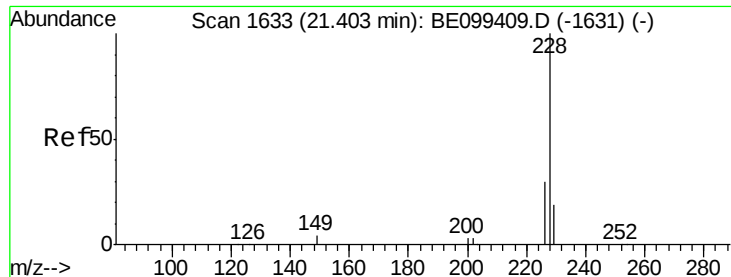
Delta R.T. -0.01 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.1	21.0	31.6	
229	23.4	16.6	25.0	





#31

Chrysene

Concen: 0.512 ng m

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Instrument :

BNA_E

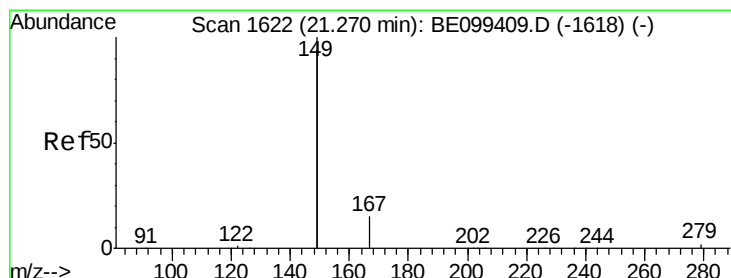
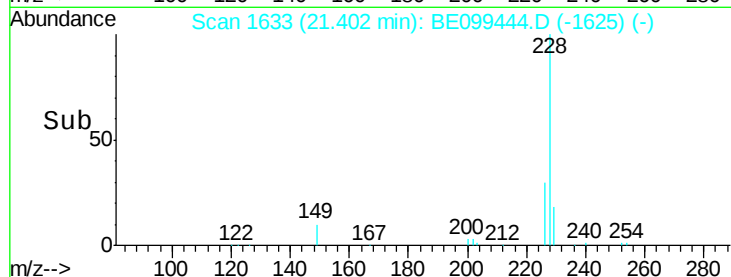
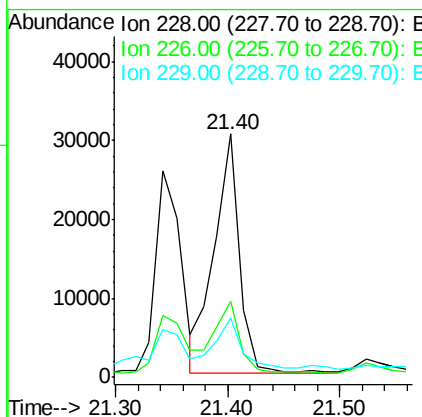
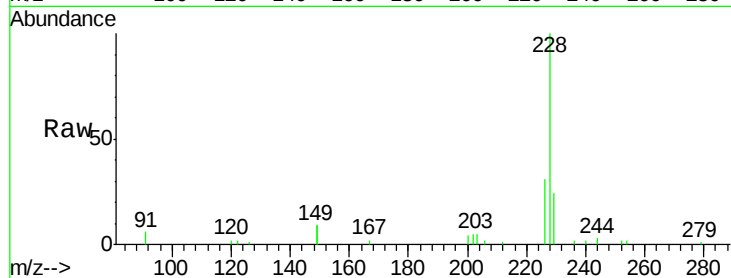
ClientSampleId :

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Tgt Ion:	228	Resp:	48209
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.0	36.0
229	24.2	15.8	23.8

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.262 ng

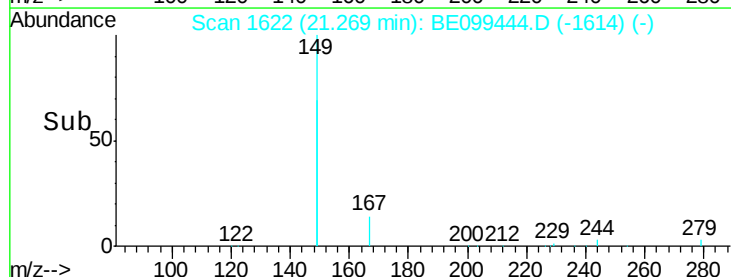
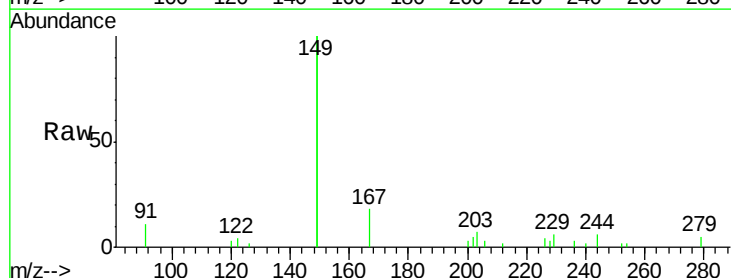
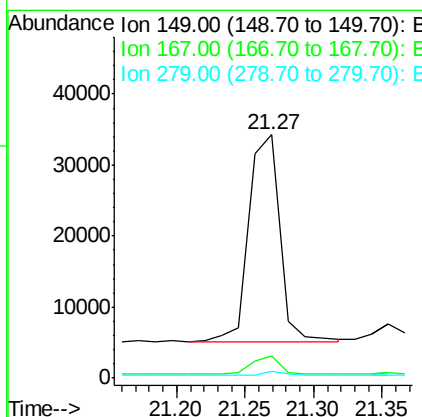
RT: 21.27 min Scan# 1622

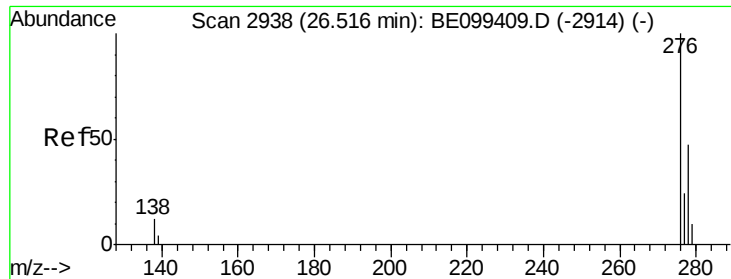
Delta R.T. 0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	149	Resp:	45379
Ion Ratio	Lower	Upper	
149	100		
167	7.5	5.8	8.6
279	1.9	1.0	1.6





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.254 ng

RT: 26.51 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BE099444.D

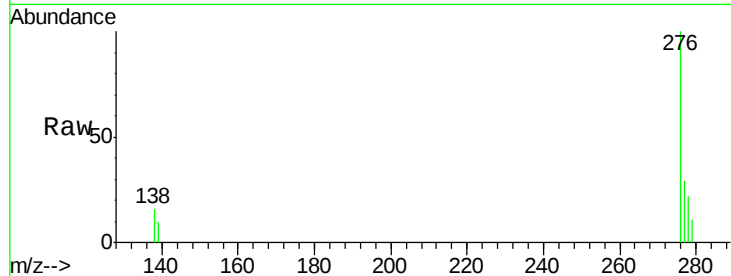
Acq: 1 May 2019 2:27

Instrument :

BNA_E

ClientSampleId :

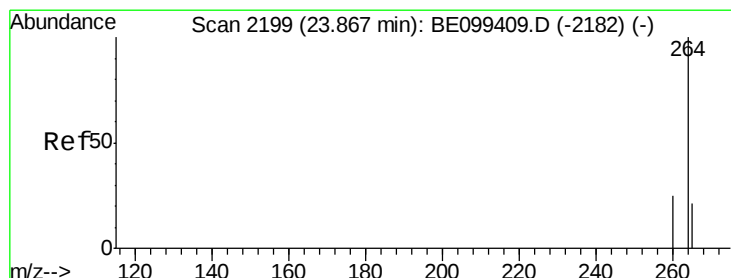
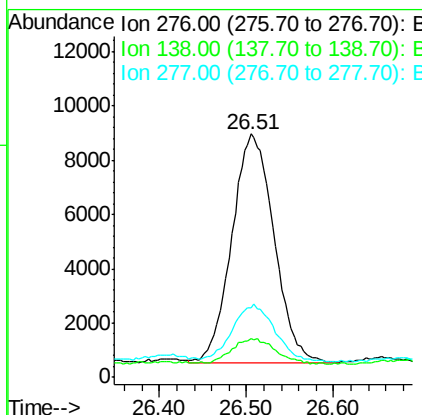
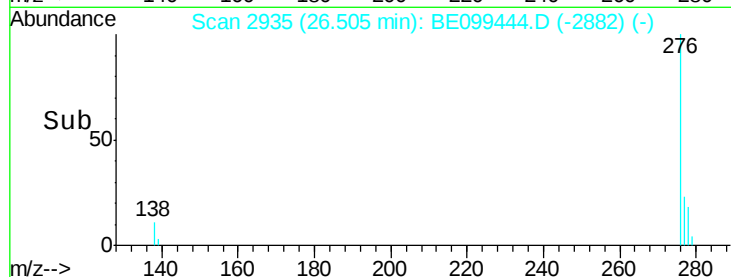
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Tgt Ion:	276	Resp:	28237
Ion Ratio	Lower	Upper	
276	100		
138	11.0	10.2	15.2
277	25.2	19.2	28.8

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#34

Perylene-d12

Concen: 0.400 ng

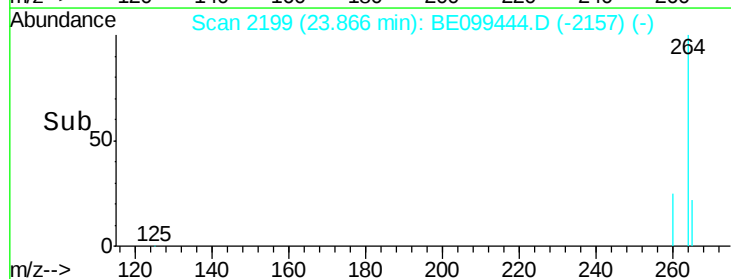
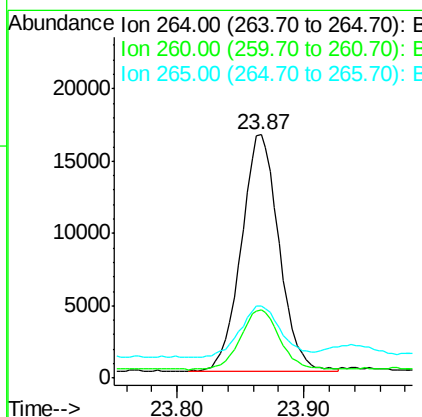
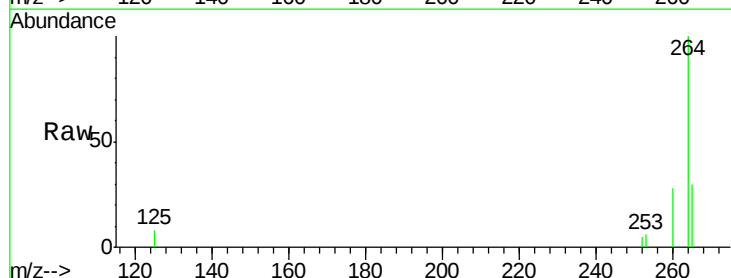
RT: 23.87 min Scan# 2199

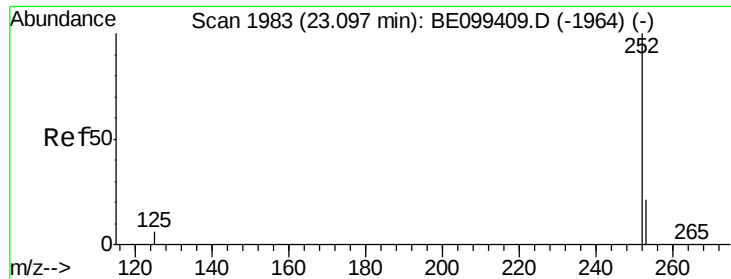
Delta R.T. -0.00 min

Lab File: BE099444.D

Acq: 1 May 2019 2:27

Tgt Ion:	264	Resp:	33994
Ion Ratio	Lower	Upper	
264	100		
260	27.9	20.2	30.2
265	29.8	21.3	31.9





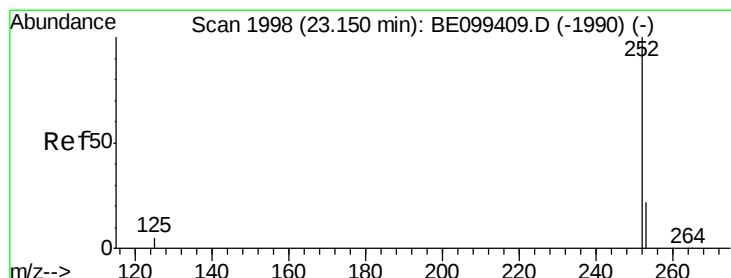
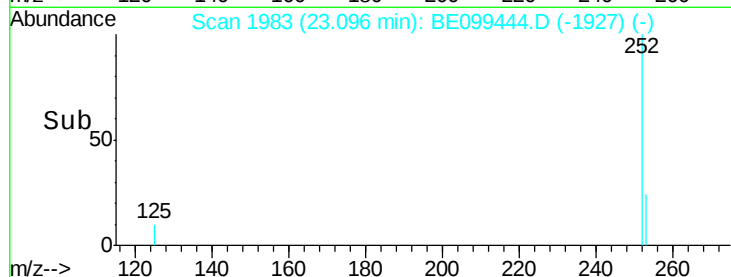
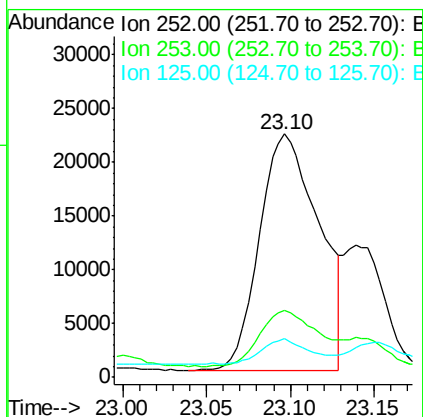
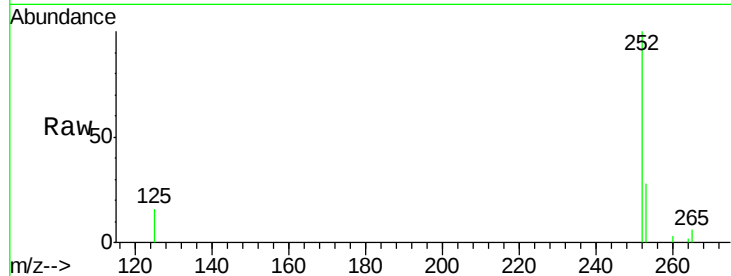
#35
Benzo(b)fluoranthene
Concen: 0.557 ng
RT: 23.10 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Instrument :
BNA_E
ClientSampleId :
PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.6	18.1	27.1#
125	15.7	5.6	8.4#

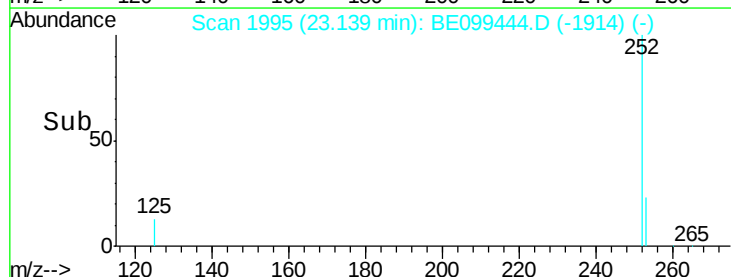
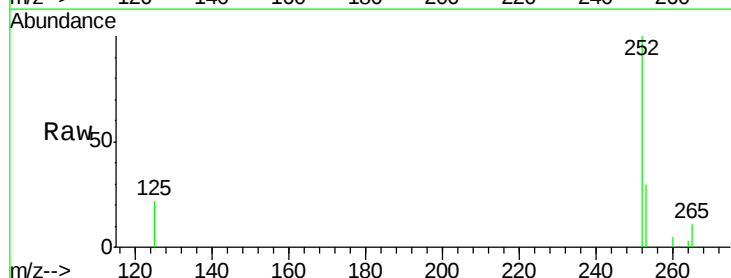
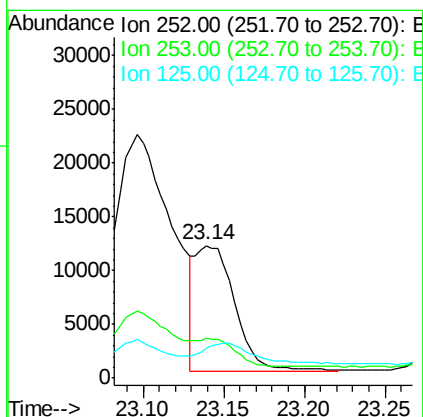
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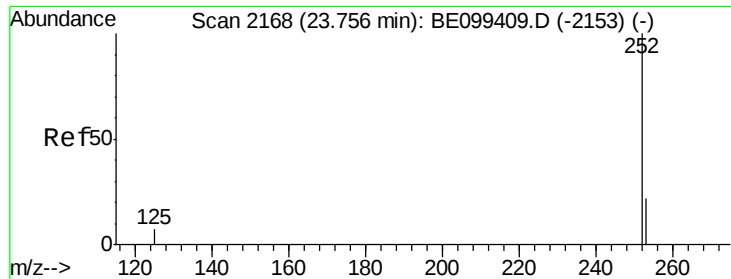
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#36
Benzo(k)fluoranthene
Concen: 0.214 ng m
RT: 23.14 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.3	18.4	27.6#
125	22.5	5.0	7.4#





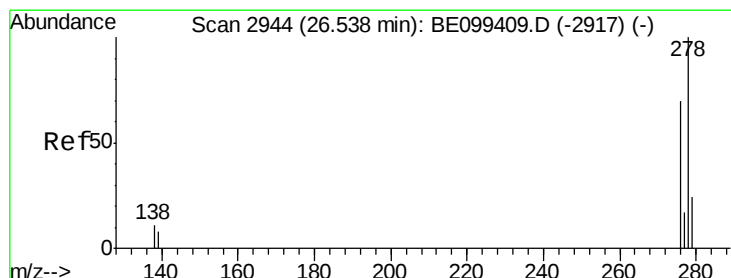
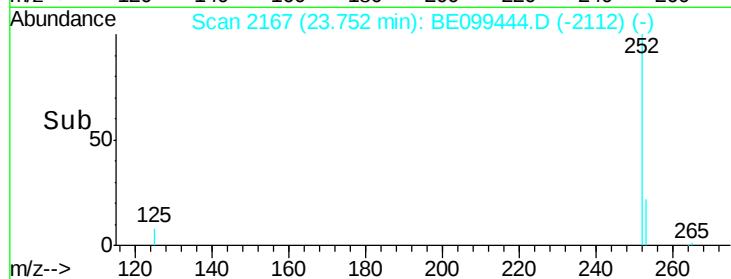
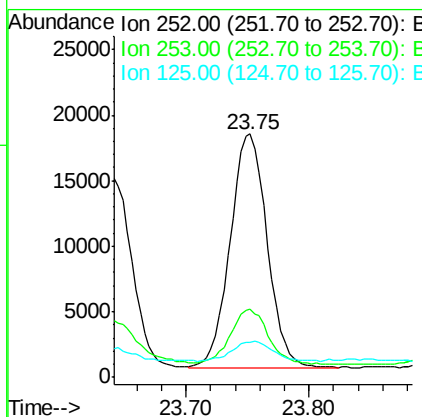
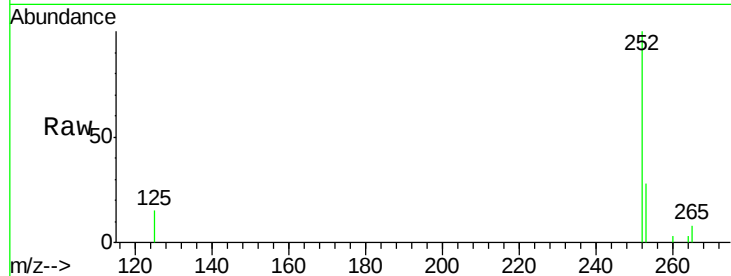
#37
Benzo(a)pyrene
Concen: 0.400 ng
RT: 23.75 min Scan# 2167
Delta R.T. -0.00 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Instrument :
BNA_E
ClientSampleId :
PST-023-SW096-042319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.1	18.9	28.3
125	14.5	6.7	10.1

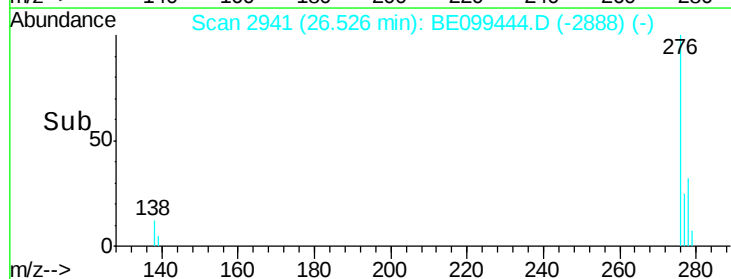
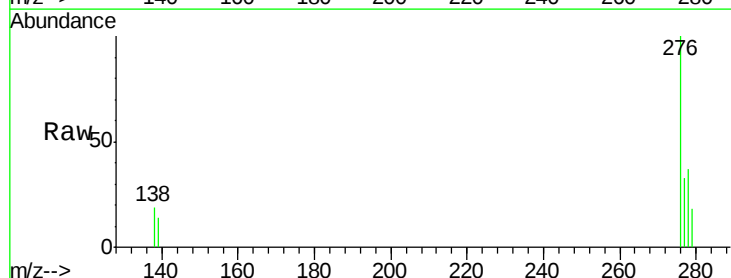
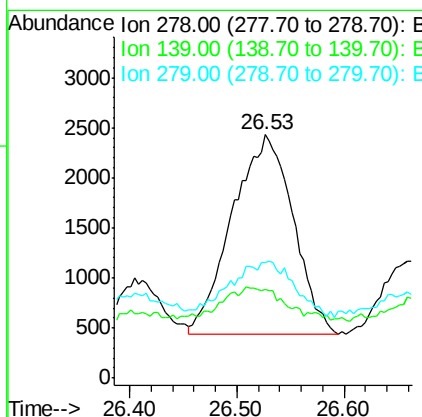
Manual Integrations
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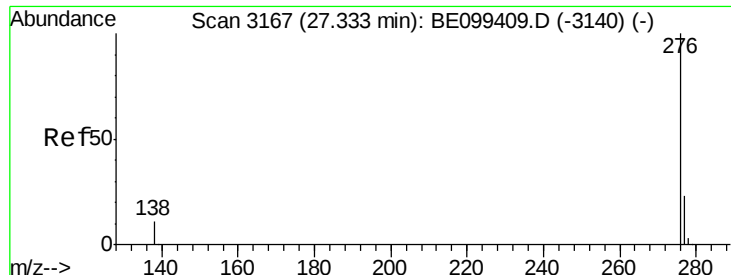
Sohil
5/1/2019 12:03:19 PM



#38
Dibenzo(a,h)anthracene
Concen: 0.082 ng
RT: 26.53 min Scan# 2941
Delta R.T. -0.01 min
Lab File: BE099444.D
Acq: 1 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	36.6	7.7	11.5
279	47.6	20.2	30.2





#39

Benzo(g,h,i)perylene

Concen: 0.312 ng

RT: 27.33 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BE099444.D

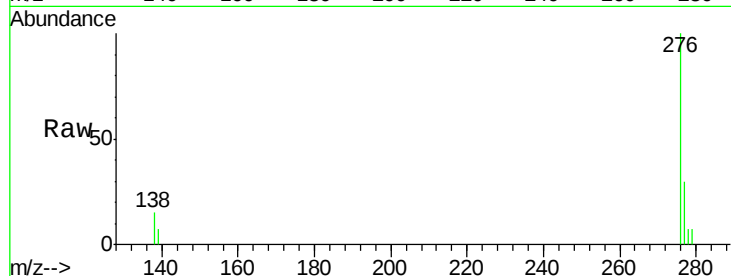
Acq: 1 May 2019 2:27

Instrument :

BNA_E

ClientSampleId :

PST-023-SW096-042319



Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.8	19.5	29.3#
138	15.3	9.6	14.4#

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