

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
 Data File : BE100646.D
 Acq On : 15 Oct 2019 12:14
 Operator : JU
 Sample : K4994-10
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-SW117-091919-3

Manual Integrations
 APPROVED

mohammad
 10/17/2019 7:56:49 AM

Quant Time: Oct 15 13:03:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 10 14:01:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	3392	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	15157	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	10469	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	25624	0.40	ng	0.00
27) Chrysene-d12	21.37	240	30795	0.40	ng	0.00
34) Perylene-d12	23.85	264	35247	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	3397	0.32	ng	0.00
5) Phenol-d6	7.01	99	5015	0.34	ng	0.00
8) Nitrobenzene-d5	8.99	82	4074	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	12.24	152	7669	0.32	ng	0.01
14) 2,4,6-Tribromophenol	15.96	330	1539	0.56	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	9983	0.26	ng	0.00
25) Fluoranthene-d10	19.23	212	96057	0.29	ng	0.00
29) Terphenyl-d14	19.83	244	20228	0.30	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.69	128	60084	0.377	ng	100
12) 2-Methylnaphthalene	12.31	142	13194	0.486	ng	100
16) Acenaphthylene	14.20	152	47008	1.044	ng	98
17) Acenaphthene	14.54	154	30897	1.061	ng	98
18) Fluorene	15.51	166	50538	1.307	ng	88
23) Phenanthrene	17.24	178	825764	11.716	ng	100
24) Anthracene	17.34	178	142181	2.174	ng	# 90
26) Fluoranthene	19.26	202	1051909	11.435	ng	99
28) Pyrene	19.62	202	1063925	12.366	ng	# 94
30) Benzo(a)anthracene	21.36	228	594336	5.916	ng	93
31) Chrysene	21.42	228	591901m	5.896	ng	
32) Bis(2-ethylhexyl)phthalate	21.31	149	1243828	5.920	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.48	276	284472	2.306	ng	96
35) Benzo(b)fluoranthene	23.10	252	634965	6.178	ng	98
36) Benzo(k)fluoranthene	23.15	252	247214m	2.339	ng	
37) Benzo(a)pyrene	23.75	252	467751	4.889	ng	99
38) Dibenzo(a,h)anthracene	26.50	278	83214	0.842	ng	# 86
39) Benzo(a,h,i)perylene	27.29	276	282143	2.837	ng	99

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

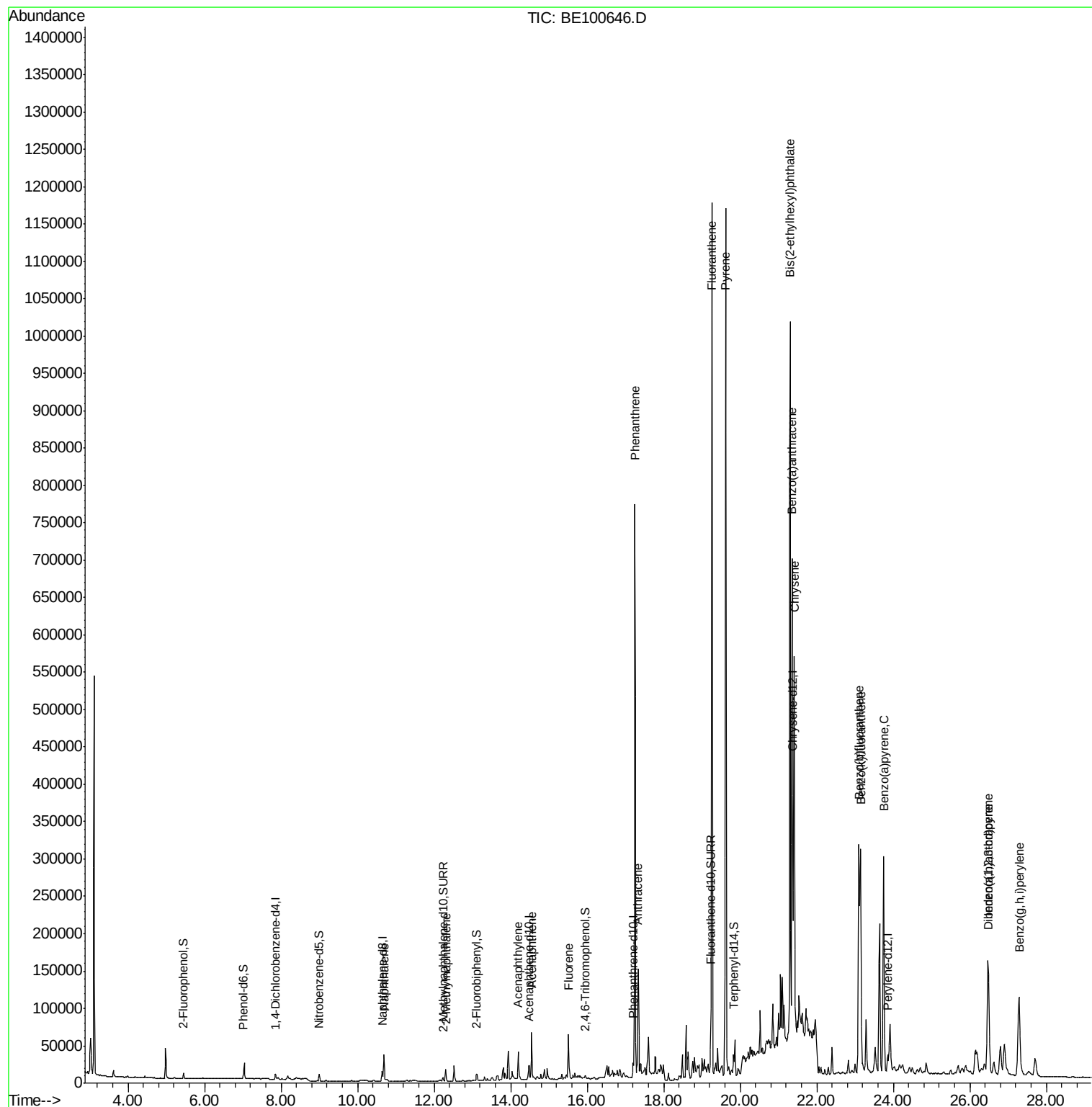
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
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Operator : JU
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Misc :
ALS Vial : 7 Sample Multiplier: 1

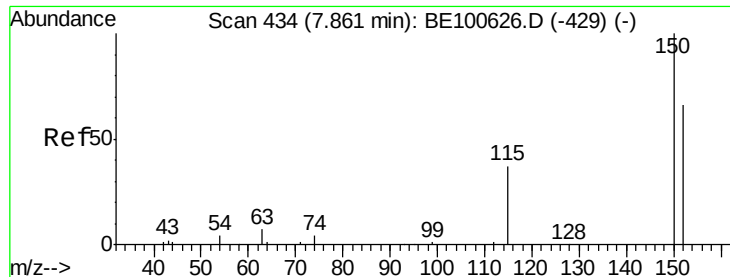
Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

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#1

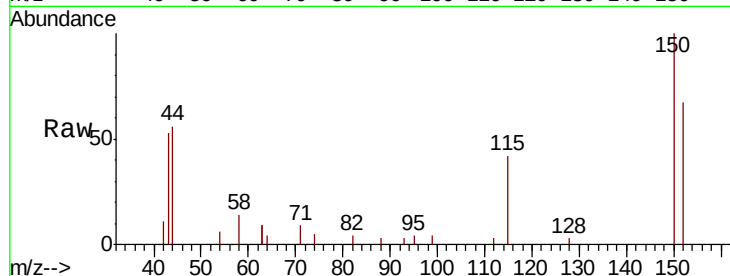
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.7	120.7	181.1
115	62.2	48.0	72.0

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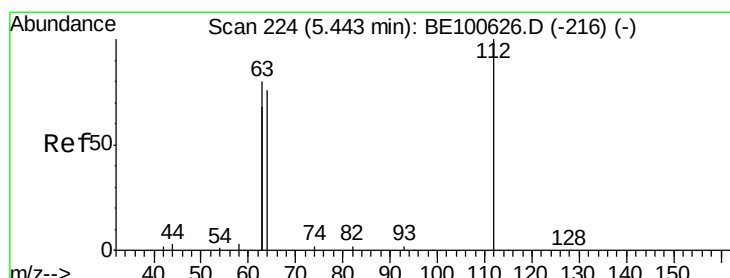
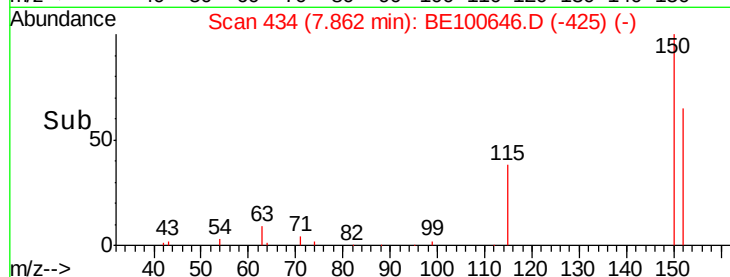
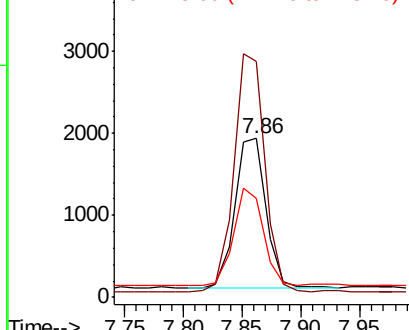


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

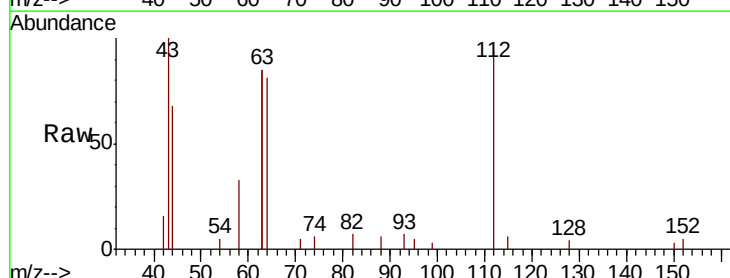
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.324 ng
RT: 5.44 min Scan# 224
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.3	58.9	88.3
63	145.0	118.3	177.5

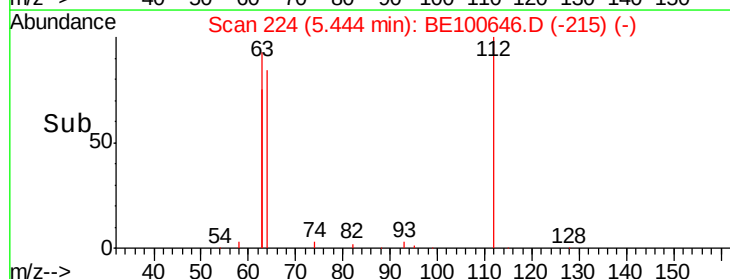
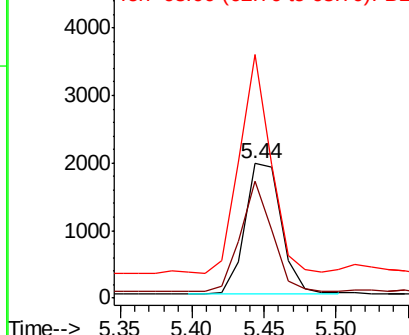


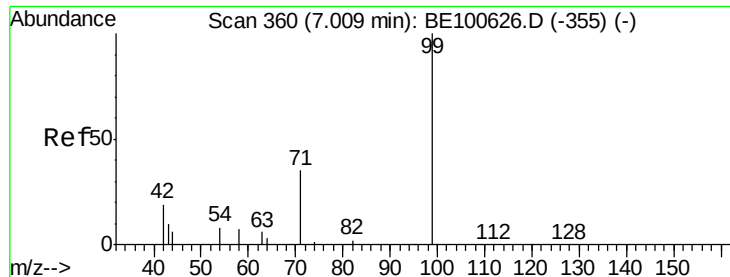
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.340 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

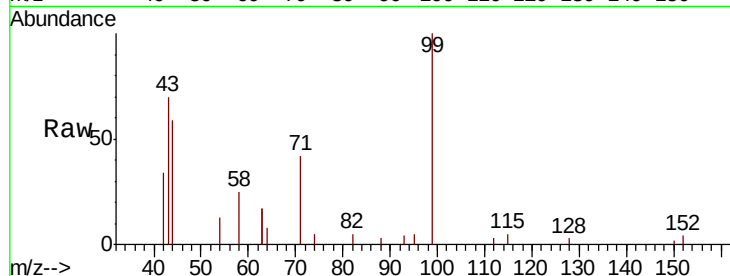
ClientSampleId :

PST-SW117-091919-3

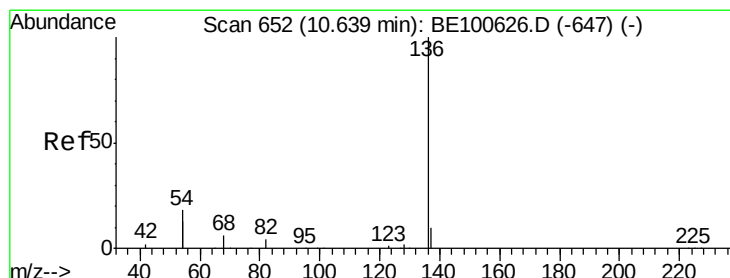
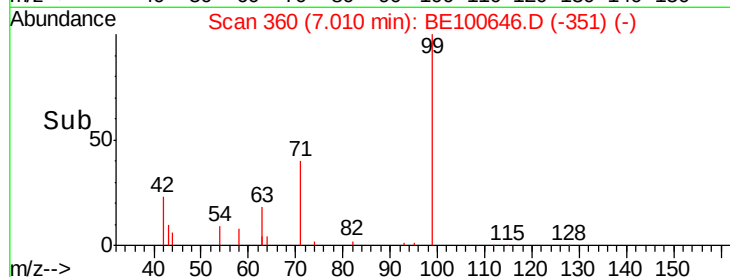
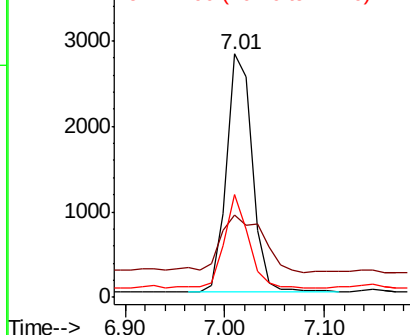
Tot Ion:	99	Resp:	5015
Ion	Ratio	Lower	Upper
99	100		
42	39.9	19.4	29.2#
71	37.0	26.9	40.3

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Abundance Ion 99.00 (98.70 to 99.70): BE1
Ion 42.00 (41.70 to 42.70): BE1
Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

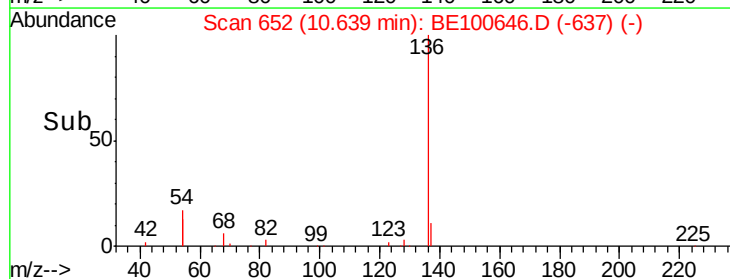
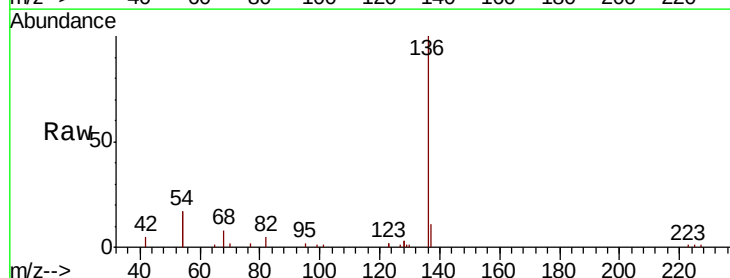
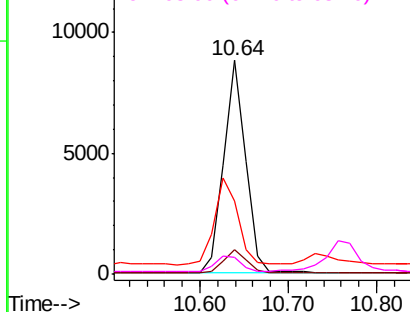
Delta R.T. -0.00 min

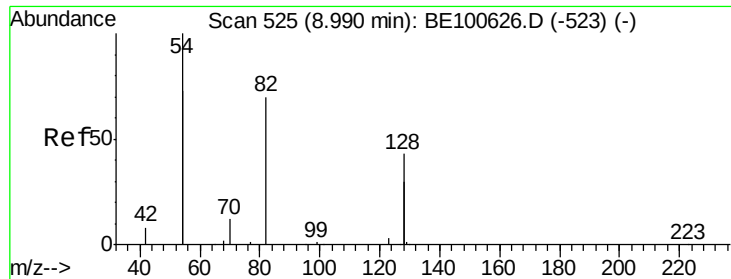
Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Tgt Ion:	136	Resp:	15157
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	13.0
54	34.2	28.7	43.1
68	7.7	5.9	8.9

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): BE1
Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.434 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

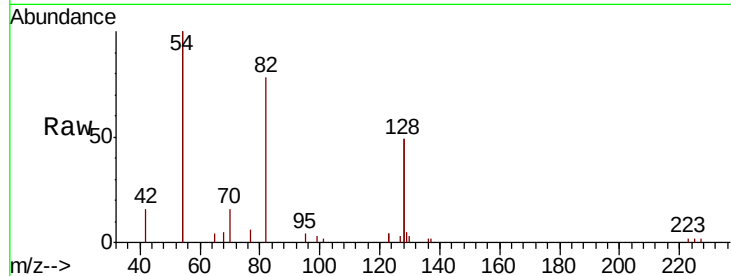
ClientSampleId :

PST-SW117-091919-3

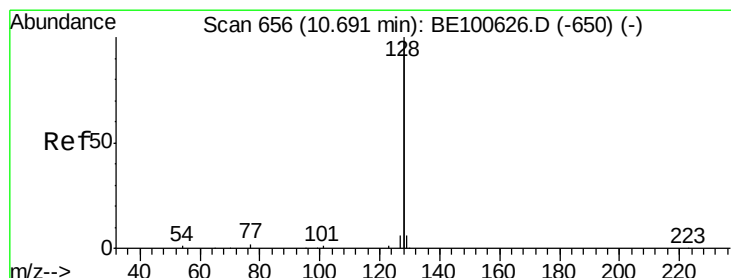
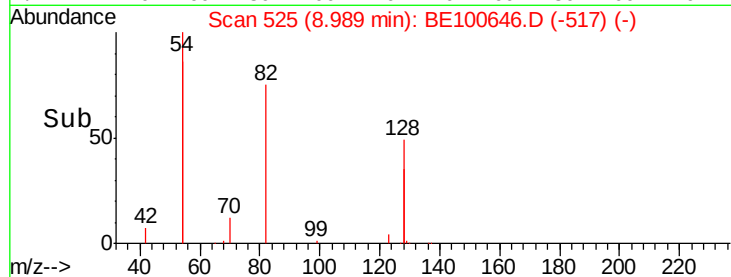
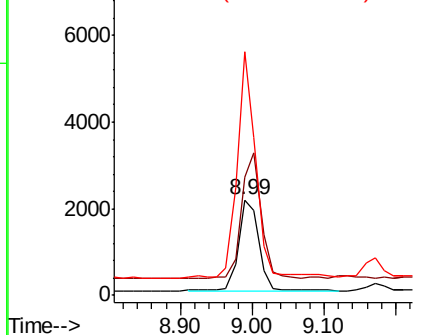
Tot Ion:	82	Resp:	4074
Ion	Ratio	Lower	Upper
82	100		
128	123.7	90.7	136.1
54	255.0	210.9	316.3

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Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.377 ng

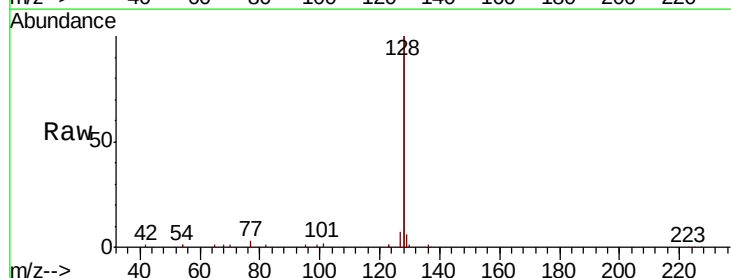
RT: 10.69 min Scan# 656

Delta R.T. -0.00 min

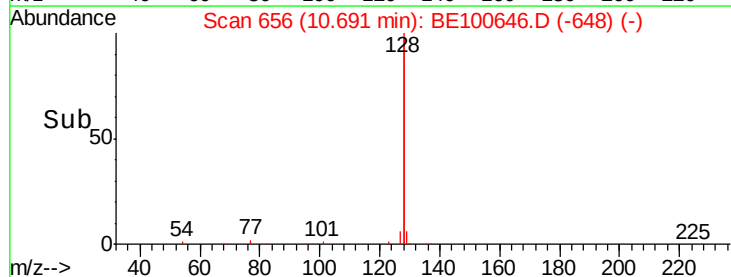
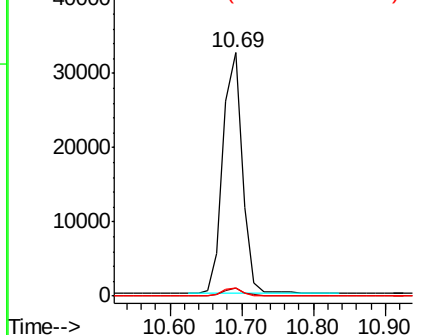
Lab File: BE100646.D

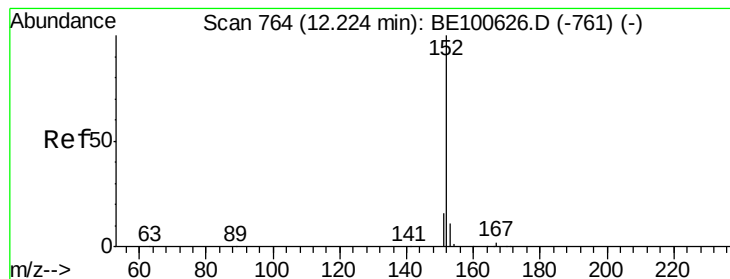
Acq: 15 Oct 2019 12:14

Tgt Ion:	128	Resp:	60084
Ion	Ratio	Lower	Upper
128	100		
129	3.1	2.4	3.6
127	3.4	2.6	3.8



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





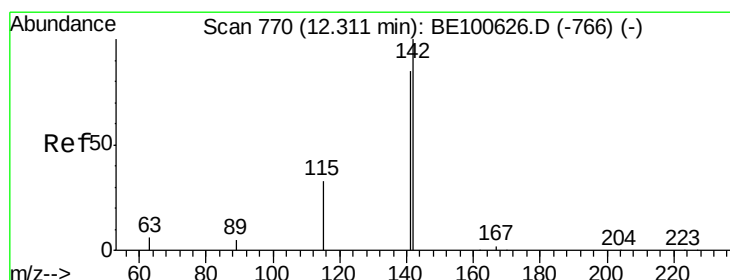
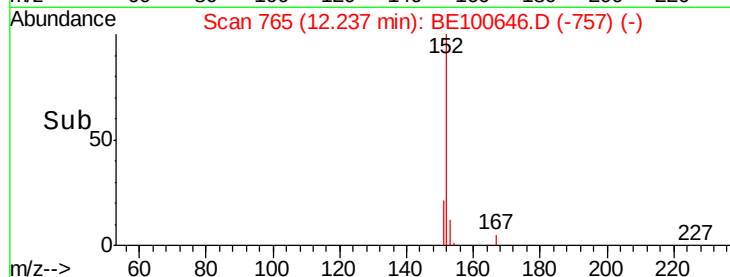
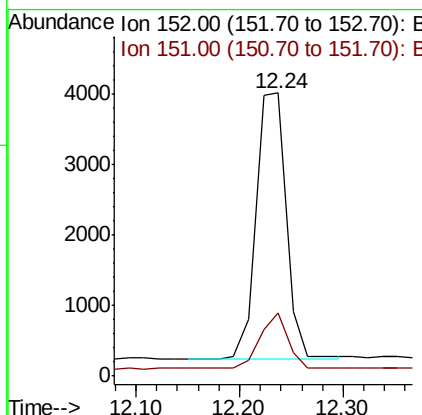
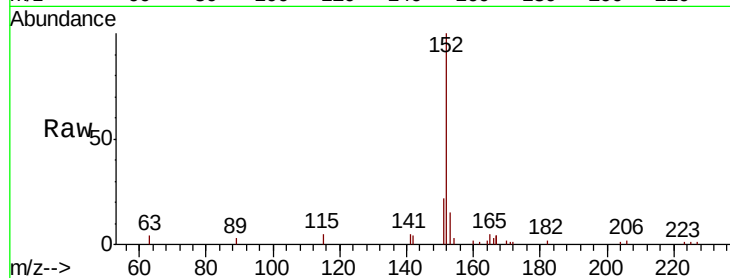
#11
 2-Methylnaphthalene-d10
 Concen: 0.321 ng
 RT: 12.24 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: BE100646.D
 Acq: 15 Oct 2019 12:14

Instrument :
 BNA_E
 ClientSampleId :
 PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.2	22.8

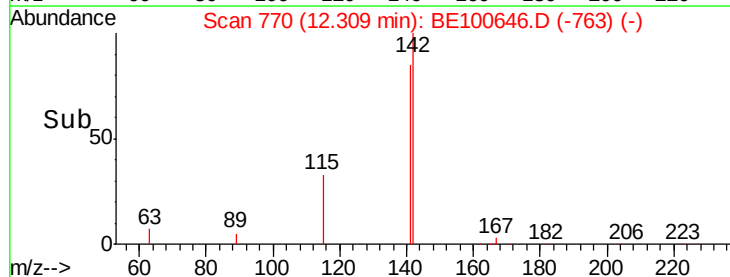
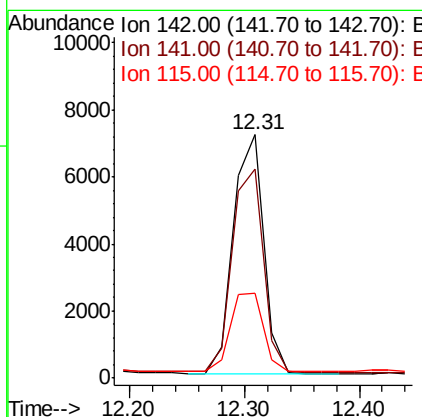
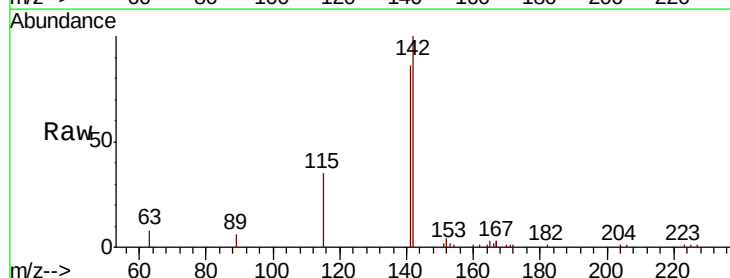
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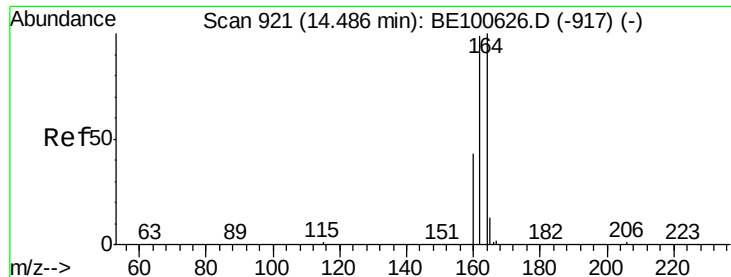
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#12
 2-Methylnaphthalene
 Concen: 0.486 ng
 RT: 12.31 min Scan# 770
 Delta R.T. -0.00 min
 Lab File: BE100646.D
 Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.7	68.3	102.5
115	34.7	27.5	41.3





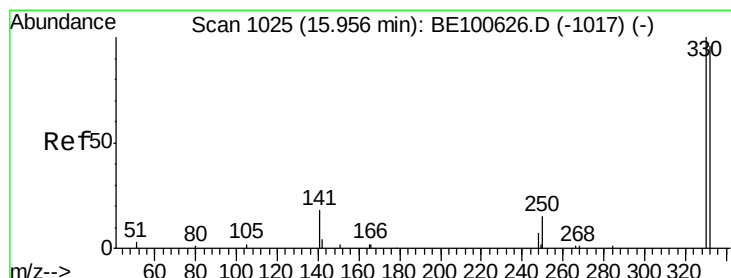
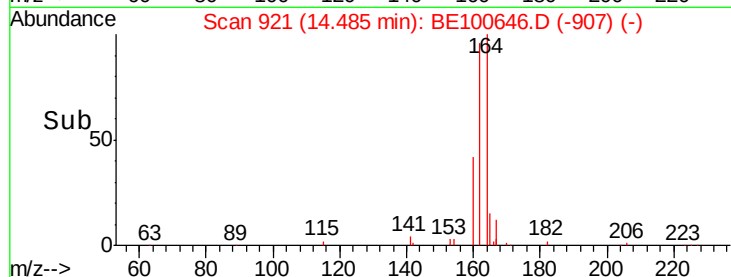
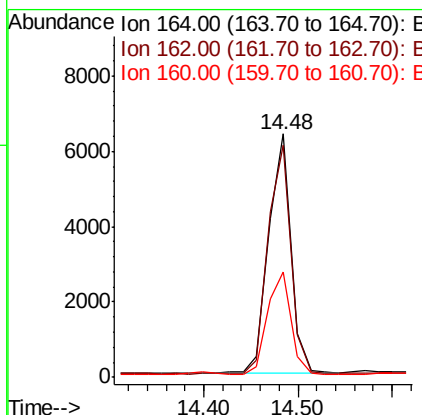
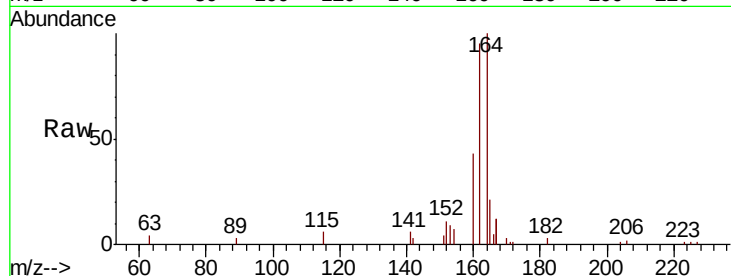
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.48 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
164	100		
162	95.5	79.1	118.7
160	43.4	34.7	52.1

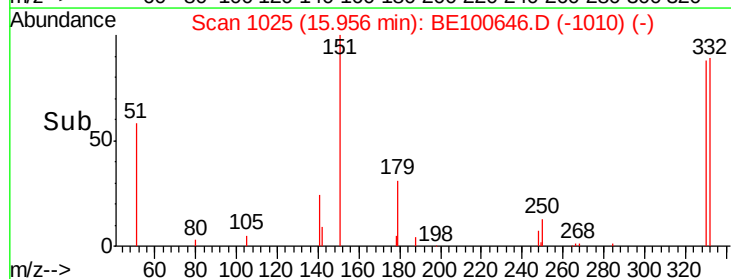
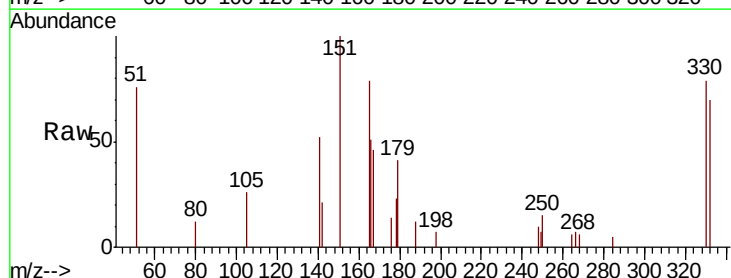
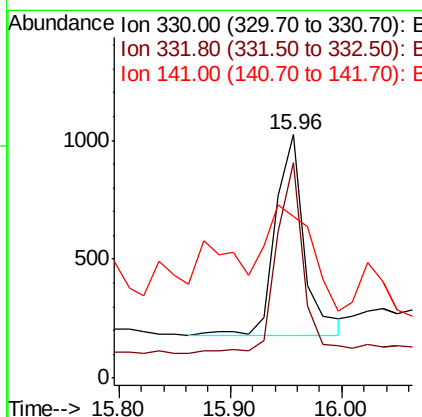
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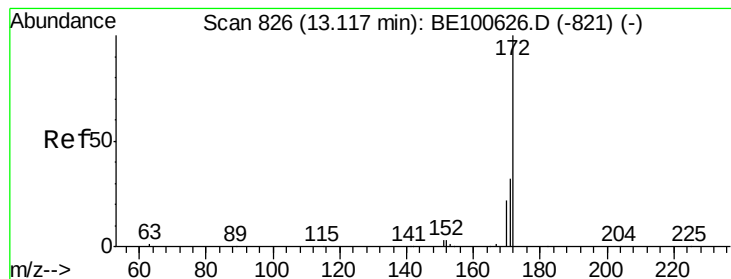
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#14
2,4,6-Tribromophenol
Concen: 0.556 ng
RT: 15.96 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	89.7	75.2	112.8
141	83.4	37.5	56.3





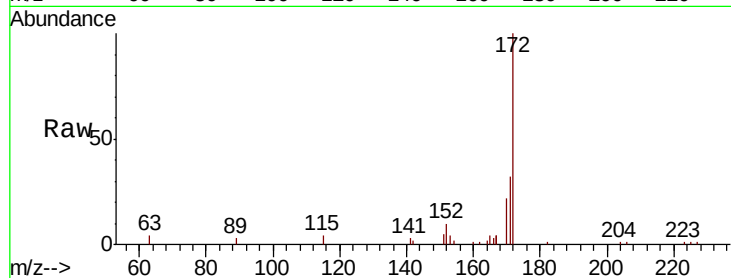
#15
2-Fluorobiphenyl
Concen: 0.262 ng
RT: 13.12 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
172	100		
171	32.4	26.2	39.4
170	21.7	17.5	26.3

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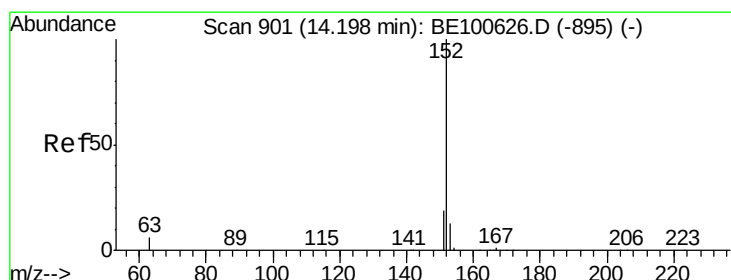
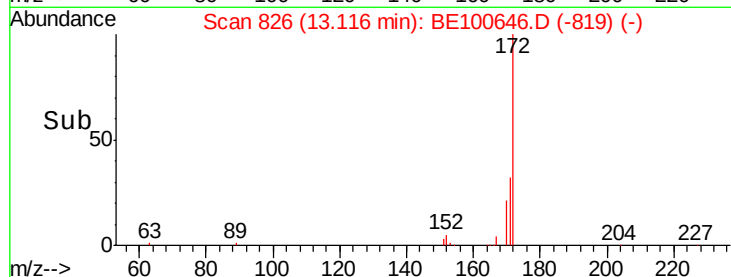
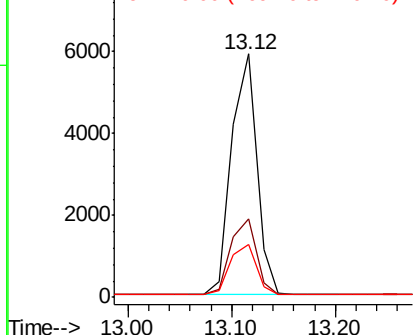


Abundance

Ion 172.00 (171.70 to 172.70): E

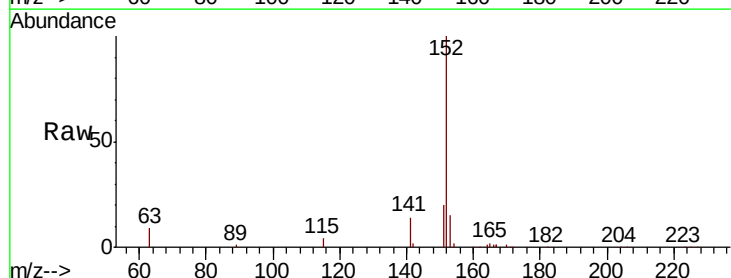
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 1.044 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.2	15.6	23.4
153	13.1	10.5	15.7

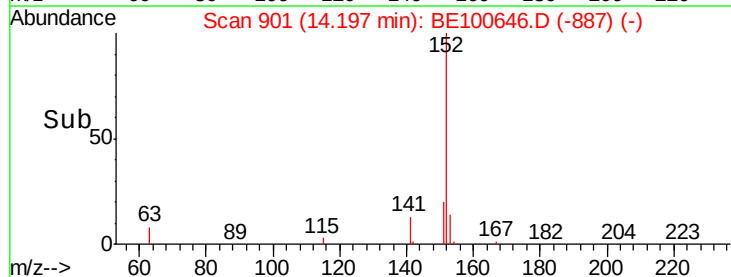
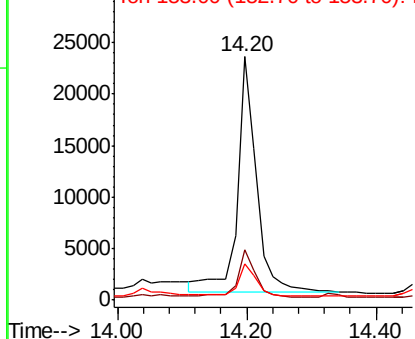


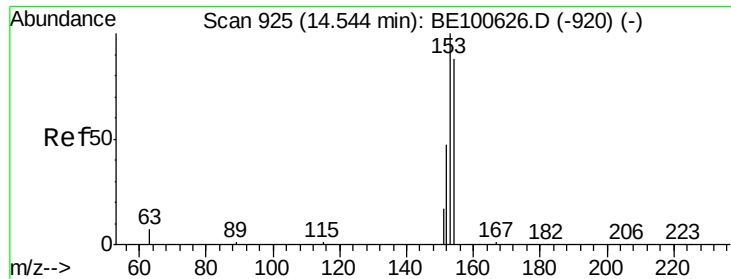
Abundance

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





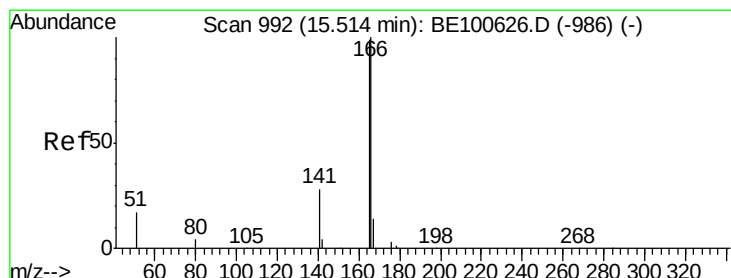
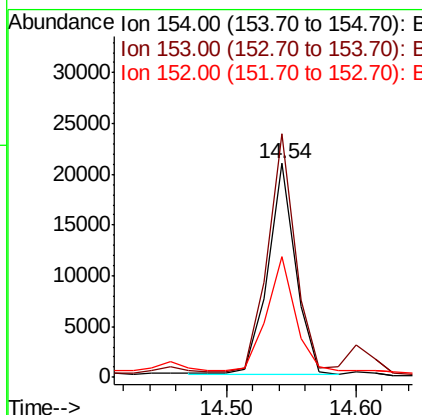
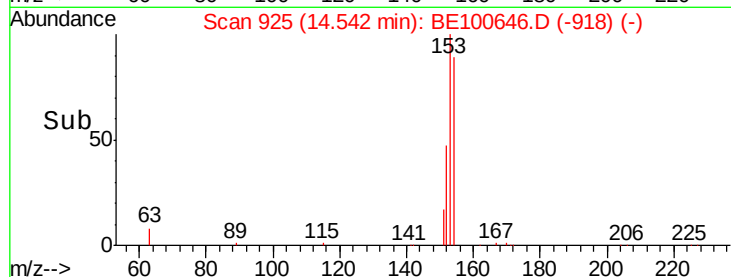
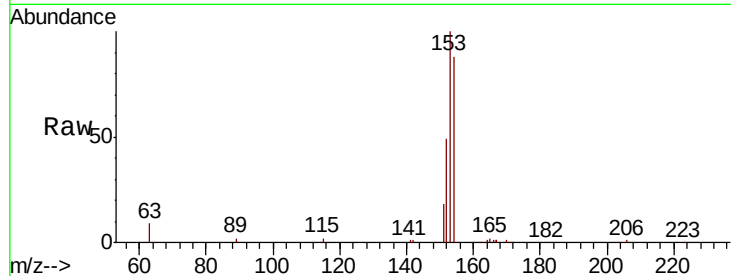
#17
Acenaphthene
Concen: 1.061 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.4	137.2
152	57.8	44.0	66.0

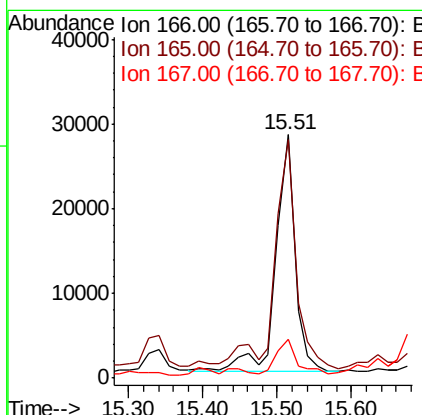
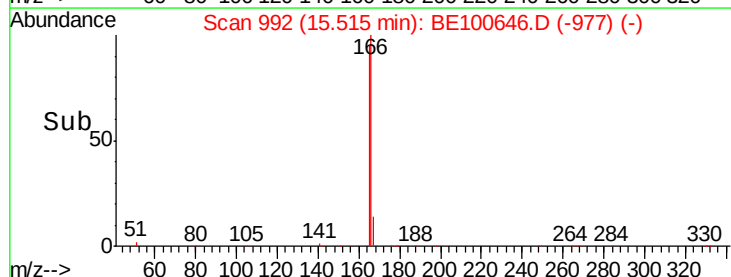
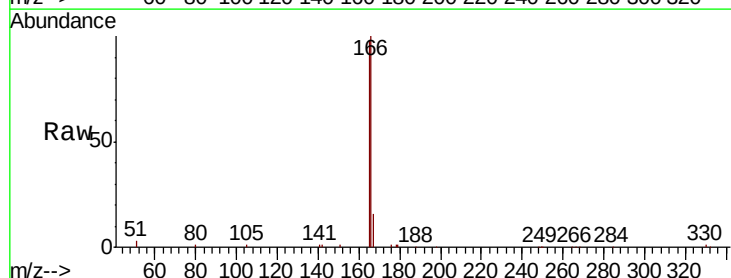
Manual Integrations
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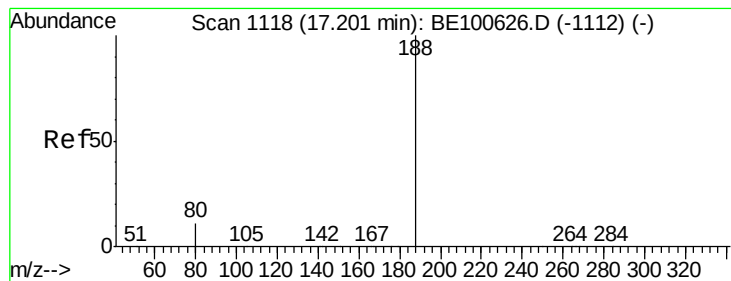
mohammad
10/17/2019 7:56:49 AM



#18
Fluorene
Concen: 1.307 ng
RT: 15.51 min Scan# 992
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.1	78.9	118.3
167	15.3	10.9	16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

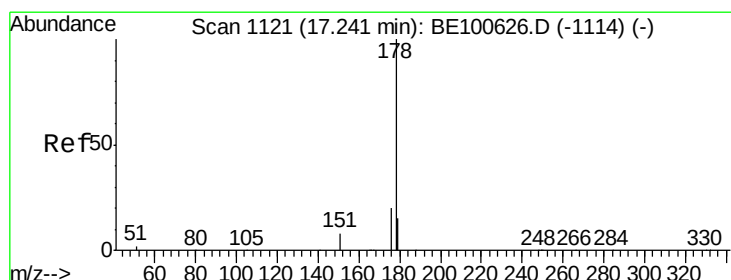
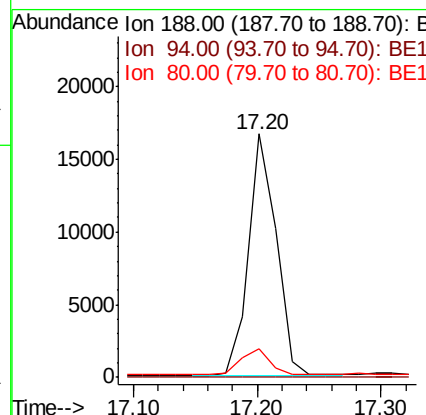
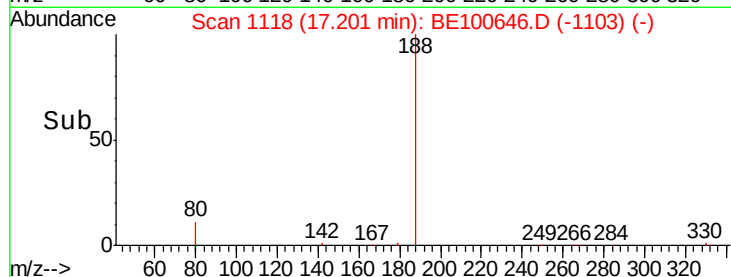
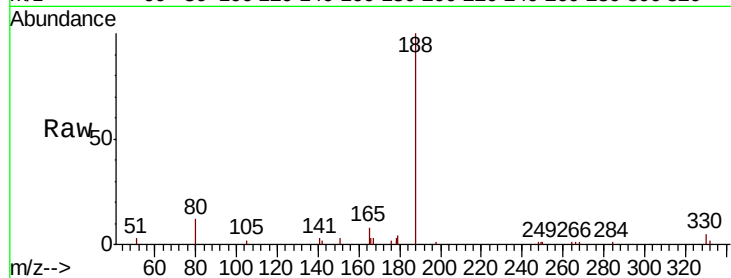
ClientSampleId :

PST-SW117-091919-3

Tot Ion:	188	Resp:	25624
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.8	9.4	14.2

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#23

Phenanthrene

Concen: 11.716 ng

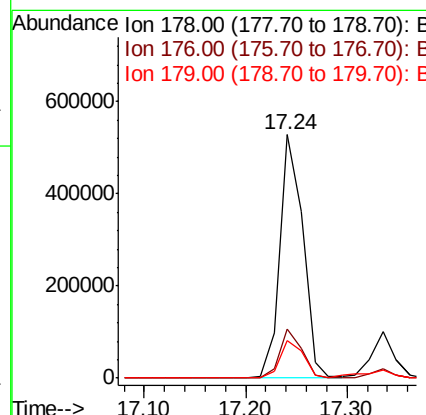
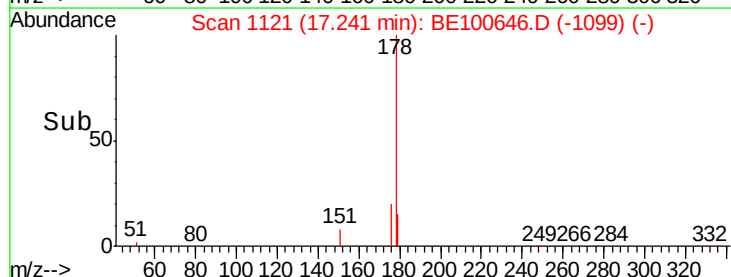
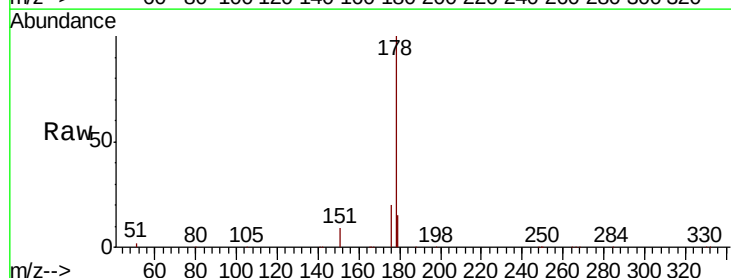
RT: 17.24 min Scan# 1121

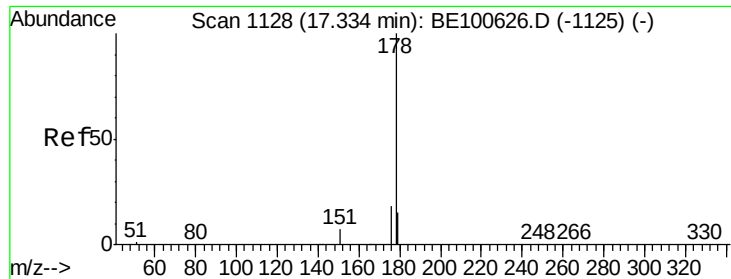
Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Tgt Ion:	178	Resp:	825764
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.6	23.4
179	15.6	12.4	18.6





#24

Anthracene

Concen: 2.174 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

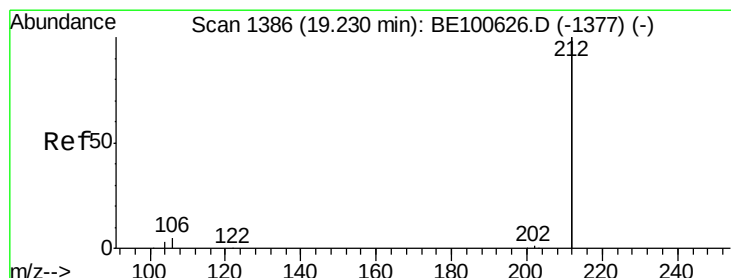
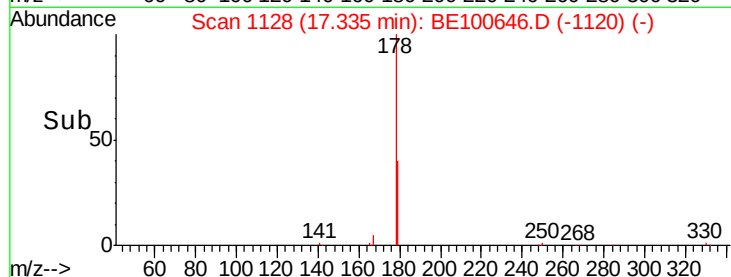
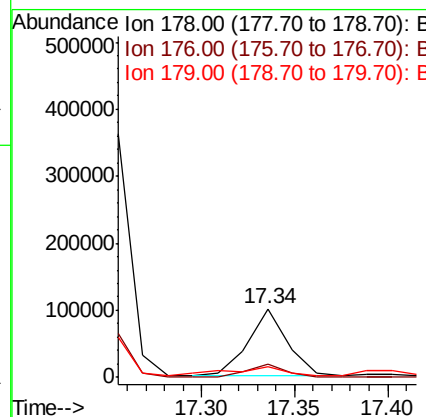
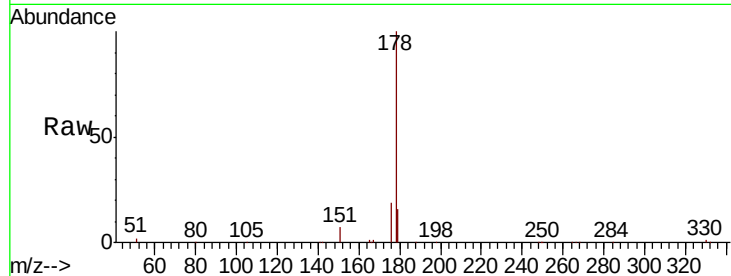
ClientSampleId :

PST-SW117-091919-3

Tot Ion:	178	Resp:	142181
Ion Ratio	Lower	Upper	
178	100		
176	19.6	14.5	21.7
179	22.8	12.4	18.6#

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#25

Fluoranthene-d10

Concen: 0.290 ng

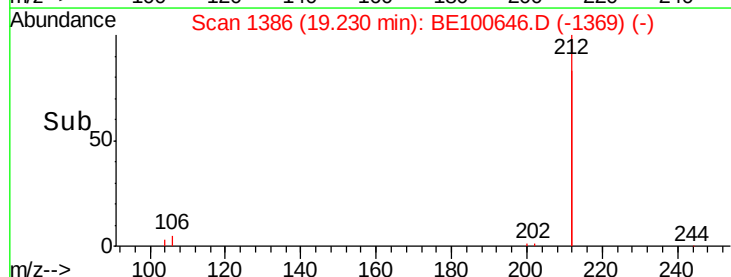
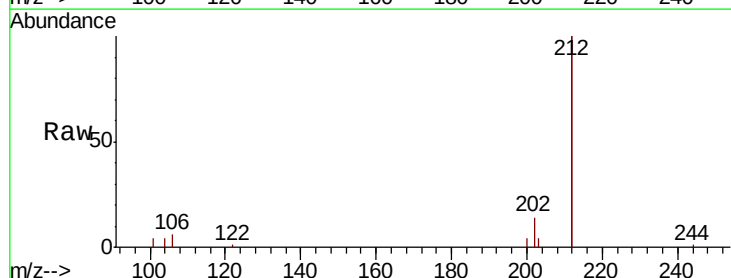
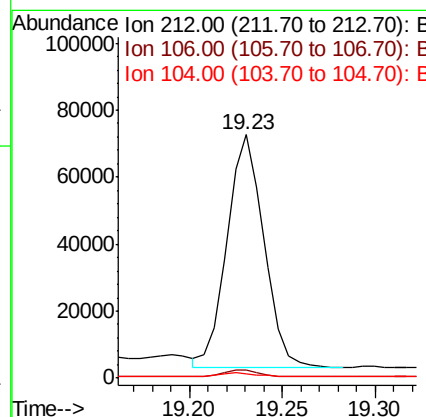
RT: 19.23 min Scan# 1386

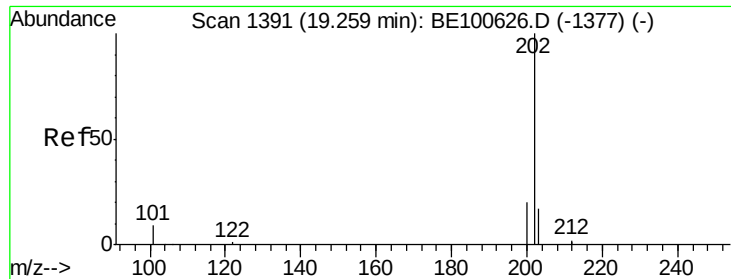
Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Tgt Ion:	212	Resp:	96057
Ion Ratio	Lower	Upper	
212	100		
106	3.3	2.2	3.4
104	2.2	1.3	1.9#





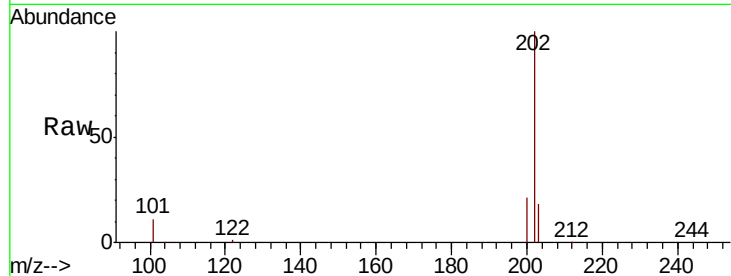
#26
Fluoranthene
Concen: 11.435 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.4	12.6
203	17.8	13.8	20.6

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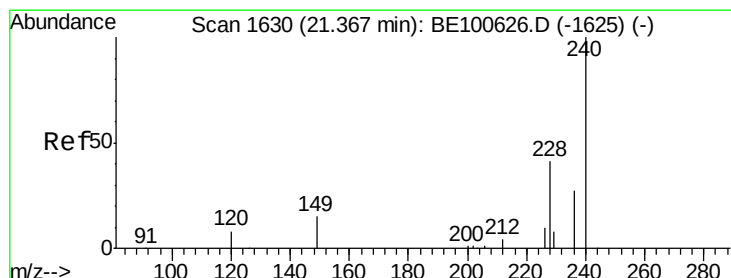
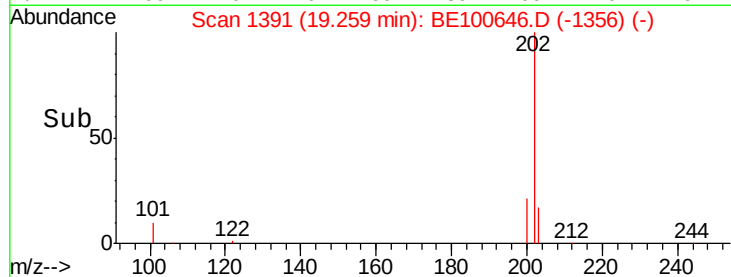
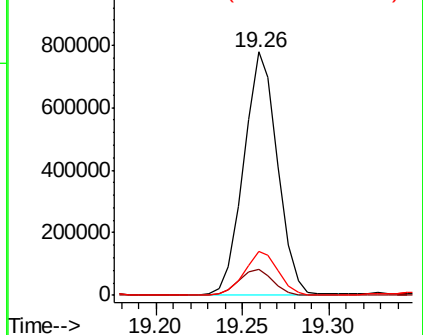


Abundance

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: BE100646.D
Acq: 15 Oct 2019 12:14

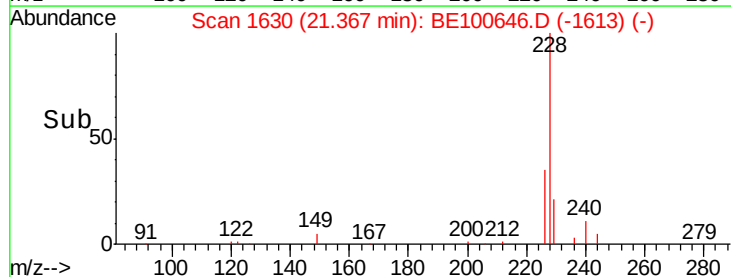
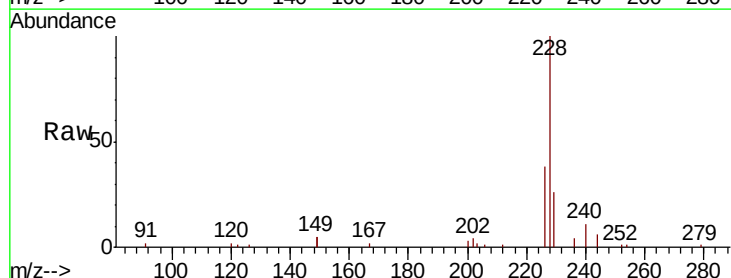
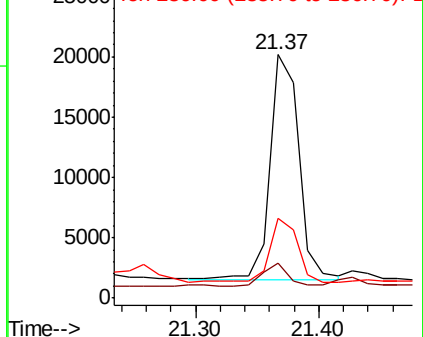
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.6	7.4	11.0#
236	32.6	21.7	32.5#

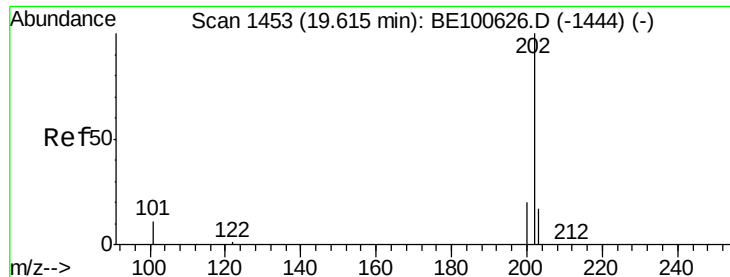
Abundance

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





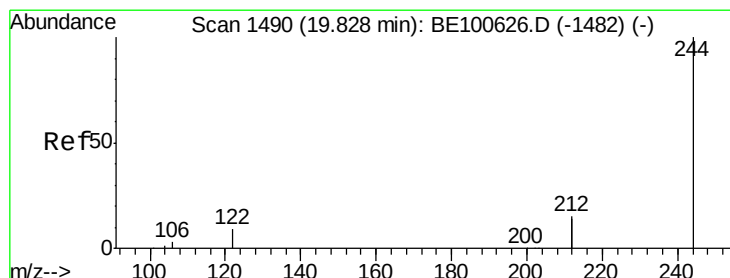
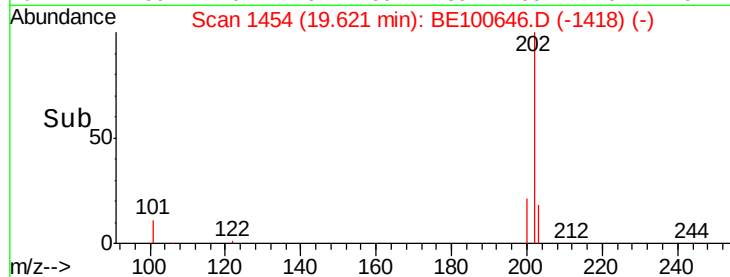
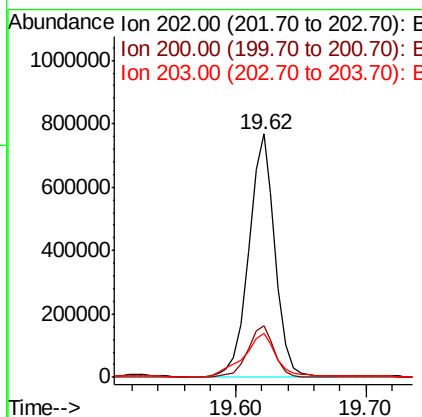
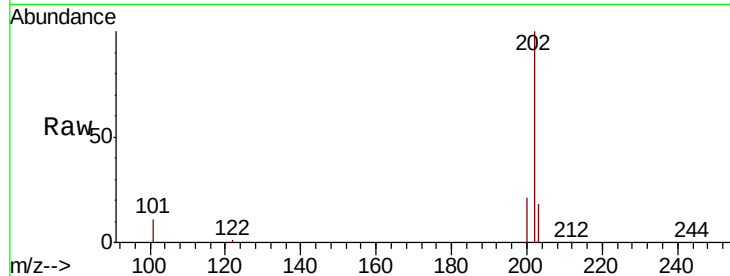
#28
Pvrene
Concen: 12.366 ng
RT: 19.62 min Scan# 1454
Delta R.T. 0.01 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.6	24.8
203	22.3	13.9	20.9

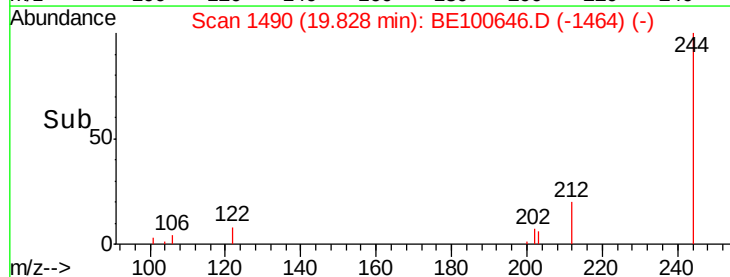
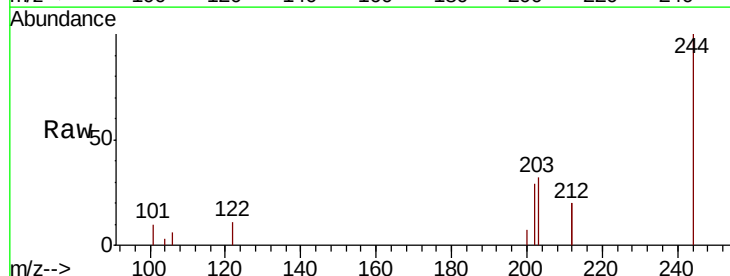
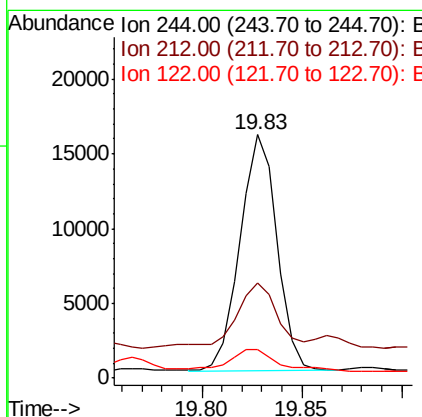
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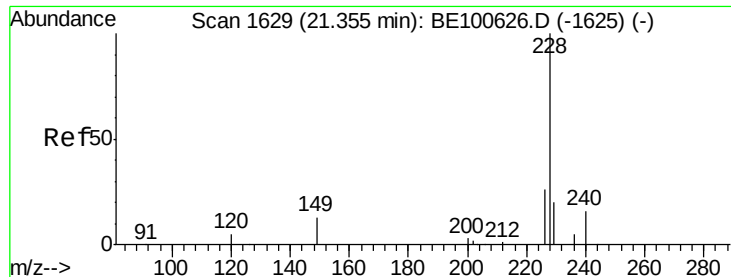
mohammad
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#29
Terphenyl-d14
Concen: 0.300 ng
RT: 19.83 min Scan# 1490
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	39.1	23.9	35.9
122	11.5	7.7	11.5





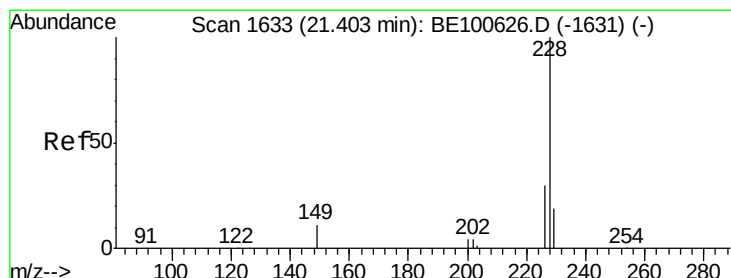
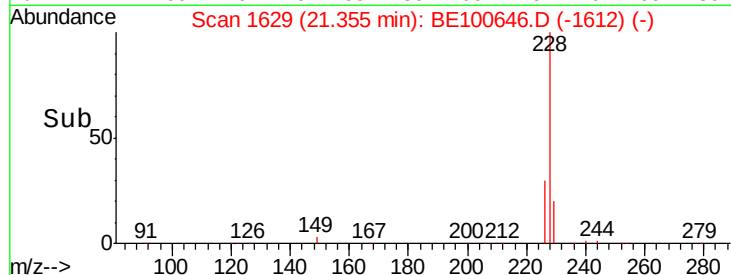
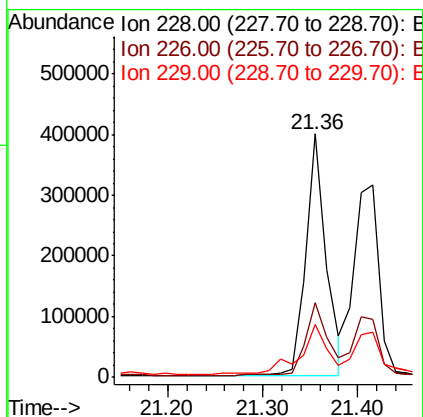
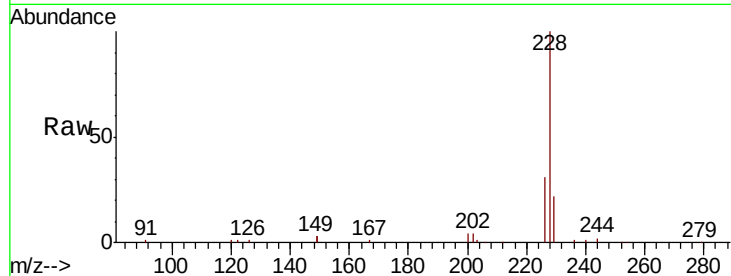
#30
Benzo(a)anthracene
Concen: 5.916 ng
RT: 21.36 min Scan# 1629
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	21.0	31.6
229	21.8	15.8	23.8

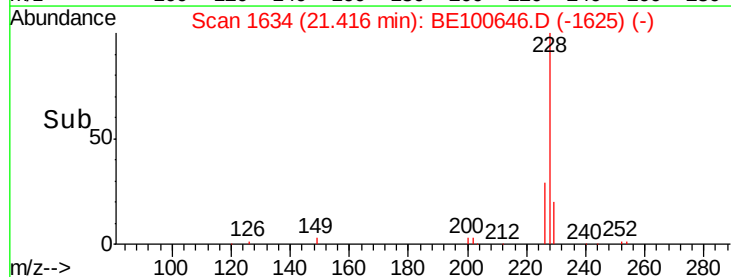
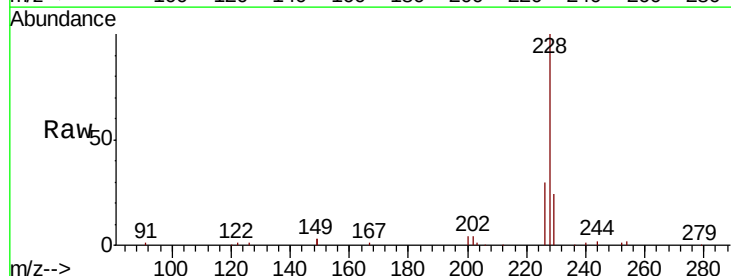
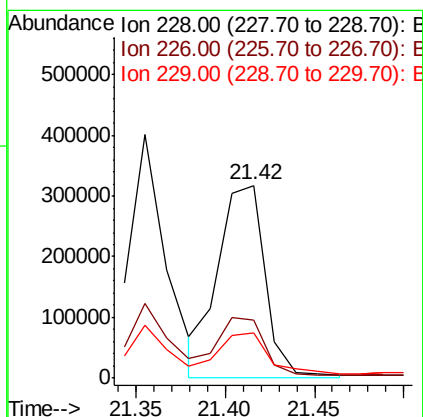
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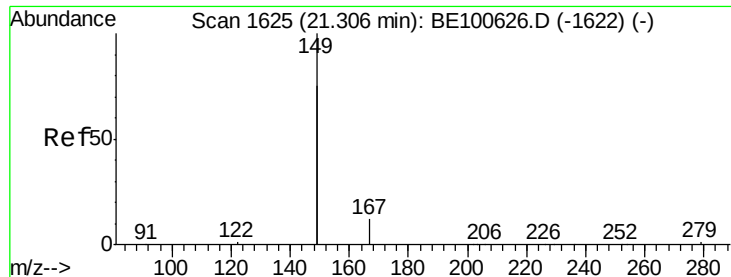
mohammad
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#31
Chrysene
Concen: 5.896 ng m
RT: 21.42 min Scan# 1634
Delta R.T. 0.01 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.5	36.7
229	23.7	15.6	23.4#





#32

Bis(2-ethylhexyl)phthalate

Concen: 5.920 ng

RT: 21.31 min Scan# 1625

Delta R.T. 0.00 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

ClientSampleId :

PST-SW117-091919-3

Tot Ion:149 Resp: 1243828

Ion Ratio Lower Upper

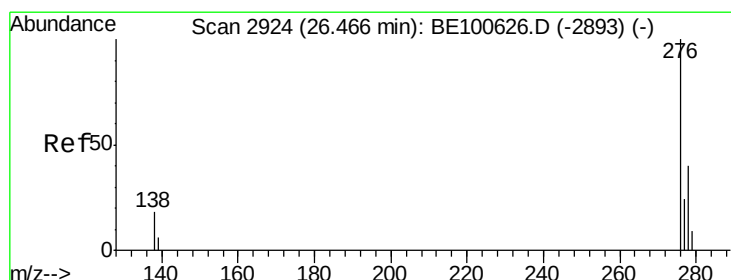
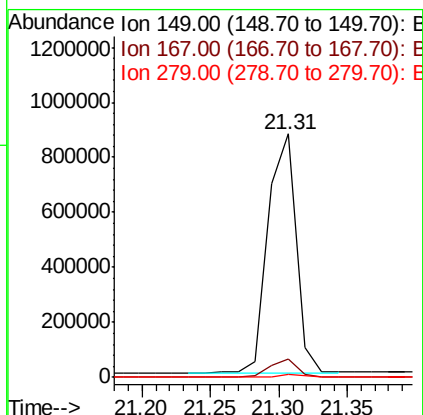
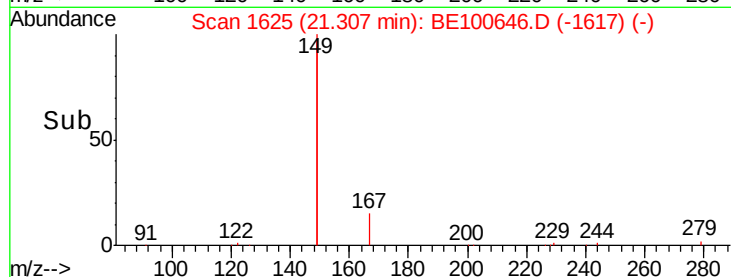
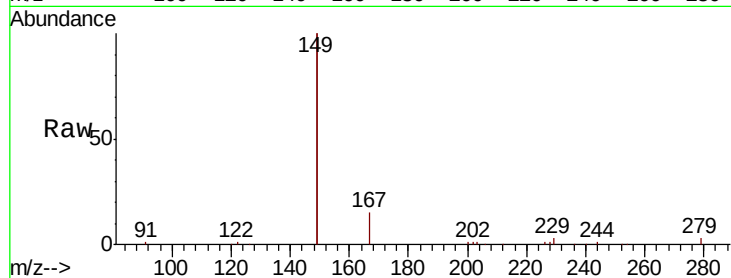
149 100

167 6.9 5.4 8.2

279 1.1 1.5 2.3#

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#33

Indeno(1,2,3-cd)pyrene

Concen: 2.306 ng

RT: 26.48 min Scan# 2927

Delta R.T. 0.01 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

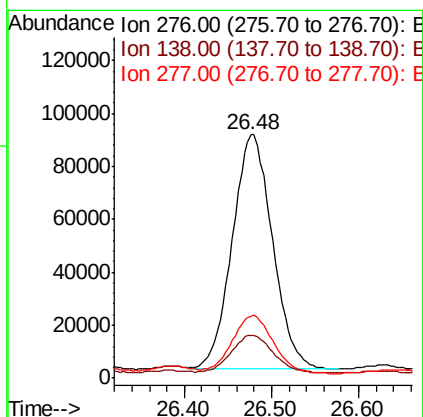
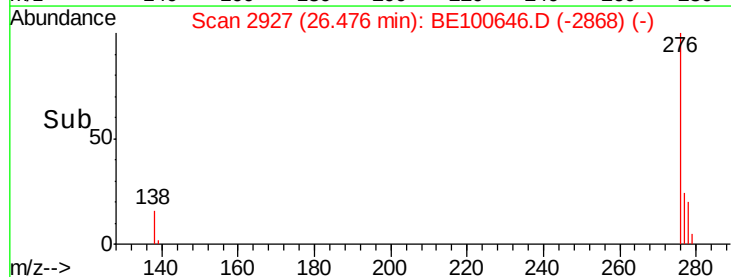
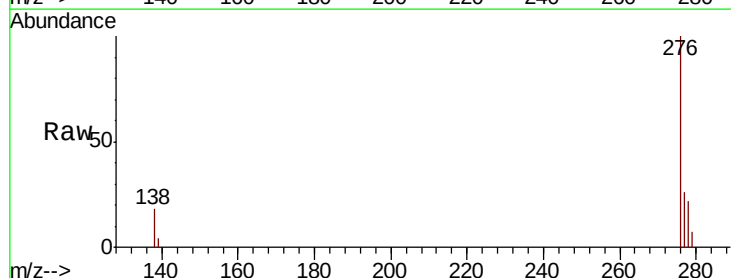
Tgt Ion:276 Resp: 284472

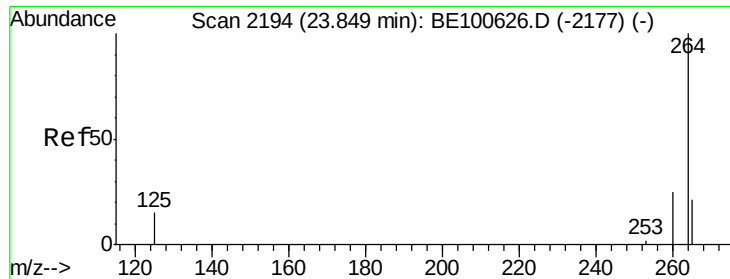
Ion Ratio Lower Upper

276 100

138 16.9 16.0 24.0

277 25.3 19.7 29.5





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.85 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Instrument :

BNA_E

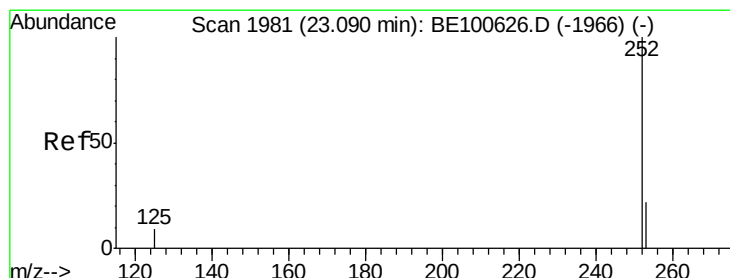
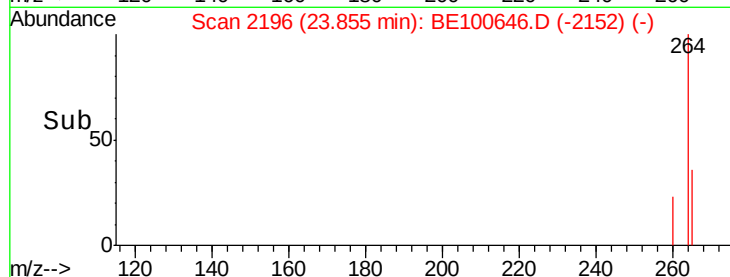
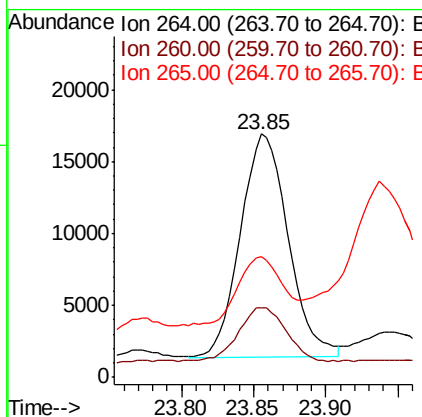
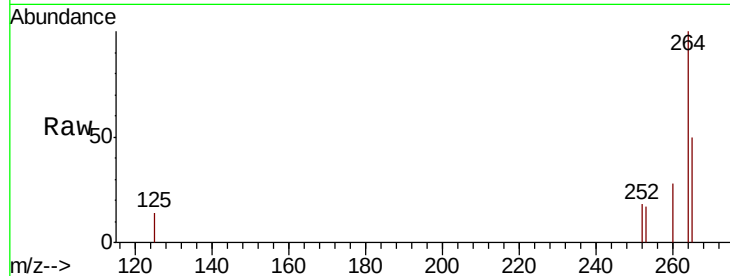
ClientSampleId :

PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.3	19.9	29.9
265	49.6	20.0	30.0

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#35

Benzo(b)fluoranthene

Concen: 6.178 ng

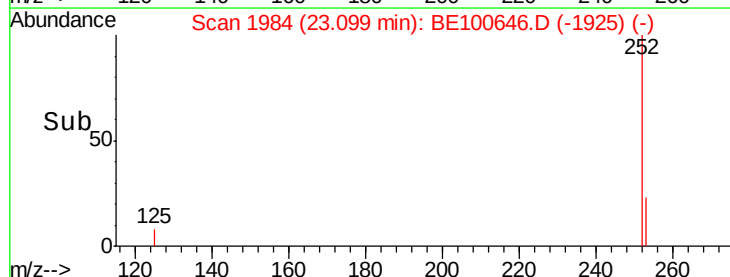
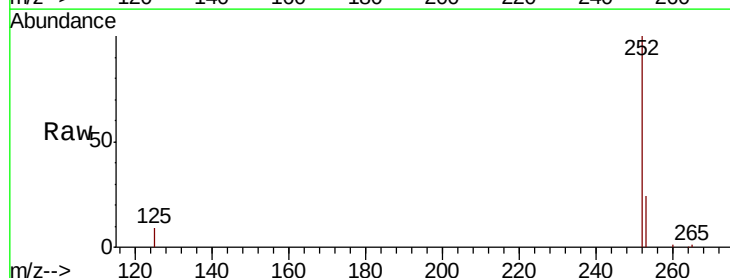
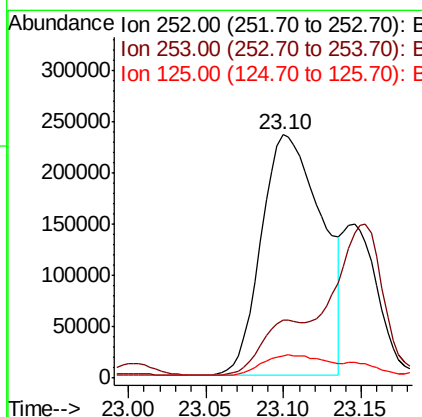
RT: 23.10 min Scan# 1984

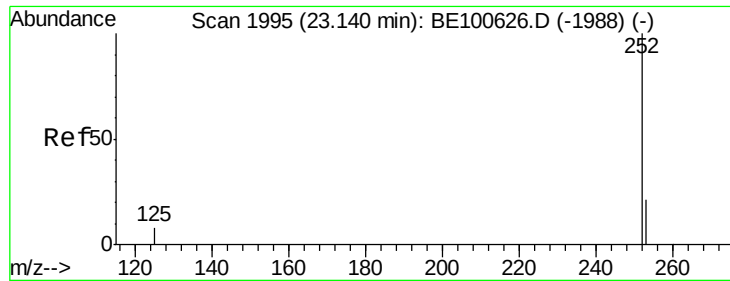
Delta R.T. 0.01 min

Lab File: BE100646.D

Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	9.2	7.6	11.4





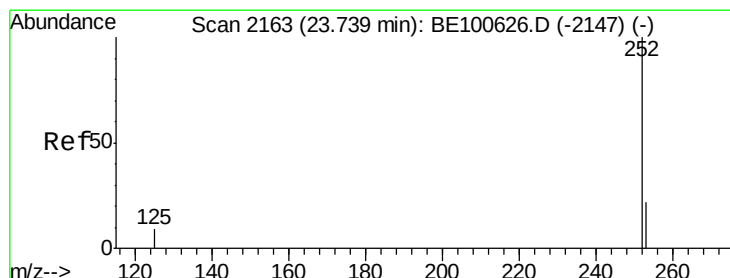
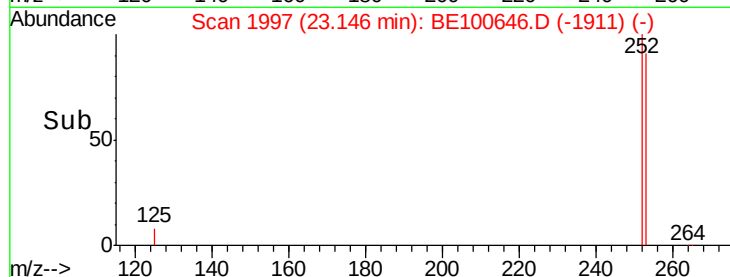
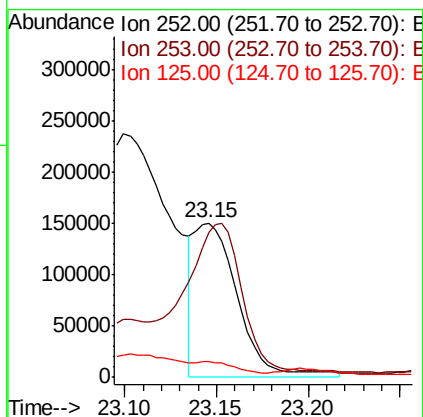
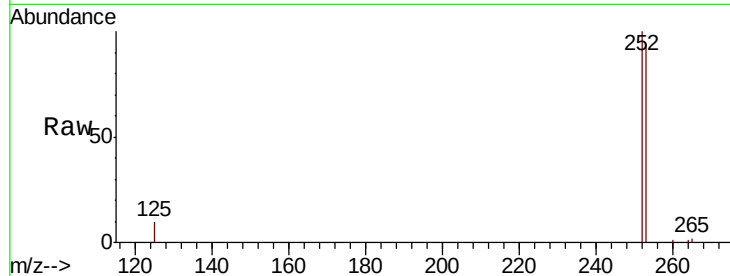
#36
Benzo(k)fluoranthene
Concen: 2.339 ng m
RT: 23.15 min Scan# 1997
Delta R.T. 0.01 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	93.7	17.8	26.6#
125	10.0	7.6	11.4

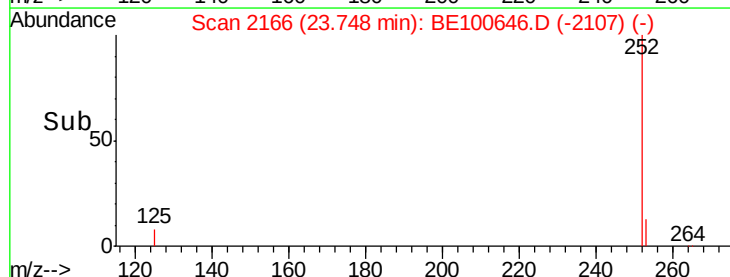
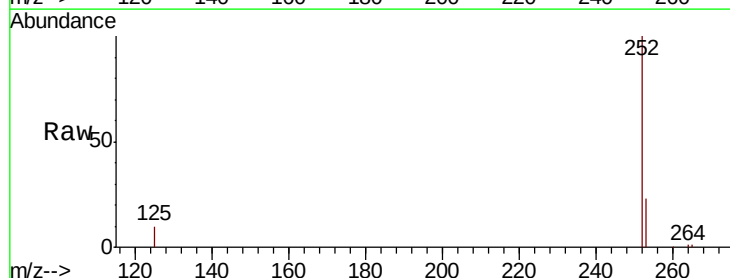
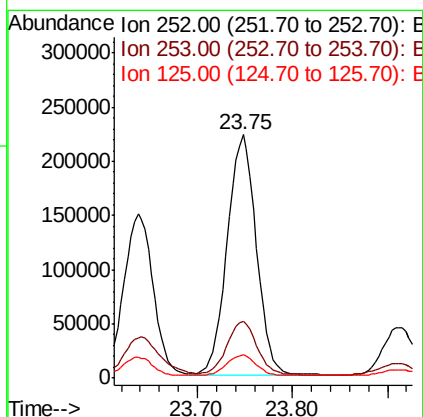
Manual Integrations
APPROVED

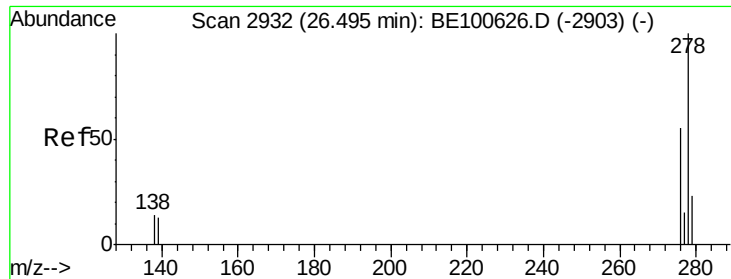
mohammad
10/17/2019 7:56:49 AM



#37
Benzo(a)pyrene
Concen: 4.889 ng
RT: 23.75 min Scan# 2166
Delta R.T. 0.01 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	9.6	8.1	12.1





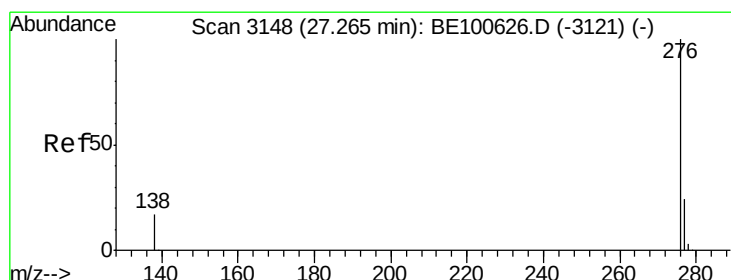
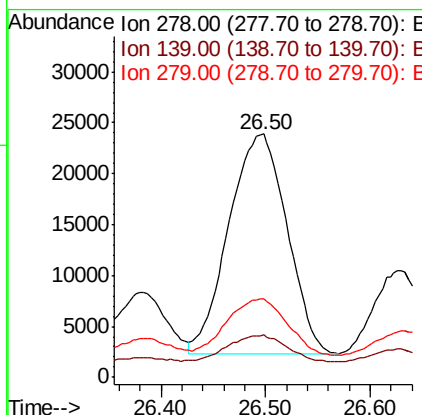
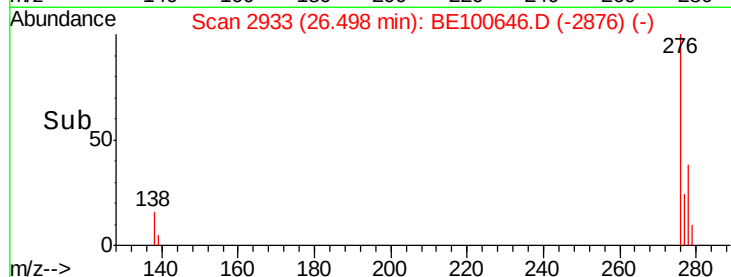
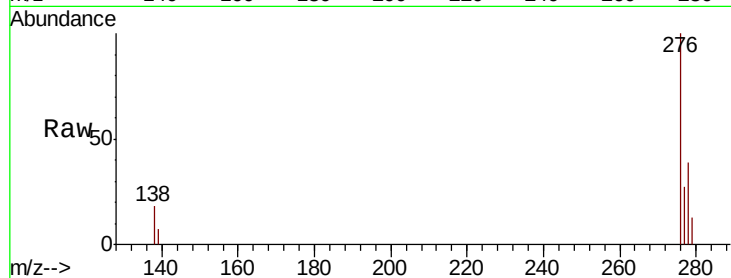
#38
Dibenzo(a,h)anthracene
Concen: 0.842 ng
RT: 26.50 min Scan# 2933
Delta R.T. 0.00 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Instrument :
BNA_E
ClientSampleId :
PST-SW117-091919-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.4	11.2	16.8#
279	32.3	19.0	28.6#

Manual Integrations
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#39
Benzo(g,h,i)perylene
Concen: 2.837 ng
RT: 27.29 min Scan# 3154
Delta R.T. 0.02 min
Lab File: BE100646.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.3	28.9
138	18.2	14.5	21.7

