

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
 Data File : BE100144.D
 Acq On : 21 Jun 2019 19:54
 Operator : JU/SJ
 Sample : K3428-15
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B043-061319

Manual Integrations
 APPROVED

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 6/25/2019 3:21:21 PM

Quant Time: Jun 24 07:01:21 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 19 15:07:24 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	607	0.40	ng	-0.01
7) Naphthalene-d8	10.54	136	2249	0.40	ng	0.00
13) Acenaphthene-d10	14.40	164	2061	0.40	ng	-0.02
19) Phenanthrene-d10	17.15	188	6785	0.40	ng	-0.01
27) Chrysene-d12	21.34	240	8816	0.40	ng	0.00
34) Perylene-d12	23.83	264	10240	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.29	112	426	0.34	ng	-0.01
5) Phenol-d6	6.91	99	623	0.36	ng	-0.02
8) Nitrobenzene-d5	8.92	82	591	0.27	ng	0.01
11) 2-Methylnaphthalene-d10	12.14	152	114m	0.03	ng	-0.02
14) 2,4,6-Tribromophenol	15.90	330	343	0.30	ng	-0.01
15) 2-Fluorobiphenyl	13.03	172	2102	0.26	ng	-0.02
25) Fluoranthene-d10	19.18	212	1751	0.02	ng	-0.01
29) Terphenyl-d14	19.79	244	4469	0.25	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.57	128	5367	0.220	ng	# 97
12) 2-Methylnaphthalene	12.22	142	572	0.142	ng	97
16) Acenaphthylene	14.12	152	2672	0.273	ng	98
17) Acenaphthene	14.47	154	329	0.060	ng	92
18) Fluorene	15.45	166	1110	0.136	ng	# 89
23) Phenanthrene	17.19	178	23504	1.446	ng	99
24) Anthracene	17.28	178	3013	0.220	ng	95
26) Fluoranthene	19.21	202	46840	1.795	ng	99
28) Pyrene	19.58	202	57549	2.540	ng	97
30) Benzo(a)anthracene	21.32	228	32407	1.236	ng	97
31) Chrysene	21.38	228	37462	1.229	ng	97
32) Bis(2-ethylhexyl)phthalate	21.25	149	7910	0.320	ng	99
33) Indeno(1,2,3-cd)pyrene	26.46	276	18229	0.532	ng	# 96
35) Benzo(b)fluoranthene	23.06	252	37275	1.240	ng	97
36) Benzo(k)fluoranthene	23.11	252	13397m	0.392	ng	
37) Benzo(a)pyrene	23.72	252	27937	0.963	ng	98
38) Dibenzo(a,h)anthracene	26.47	278	4907	0.165	ng	# 82
39) Benzo(a,h,i)perylene	27.27	276	20236	0.655	ng	98

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

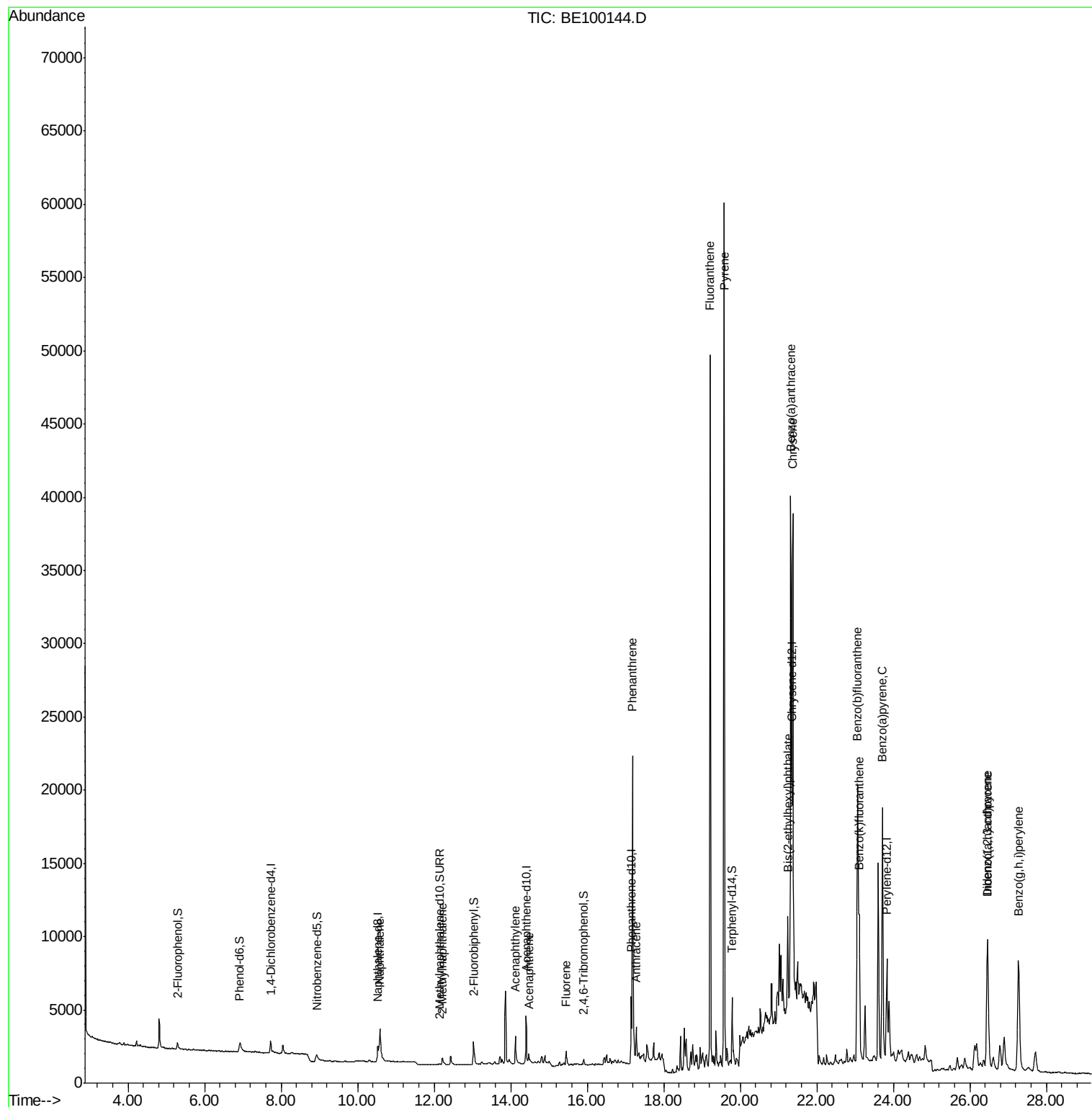
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
Data File : BE100144.D
Acq On : 21 Jun 2019 19:54
Operator : JU/SJ
Sample : K3428-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

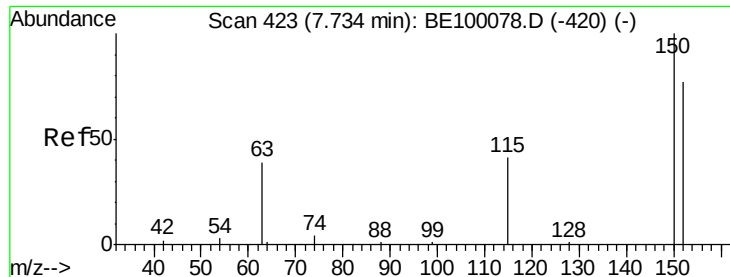
Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

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#1

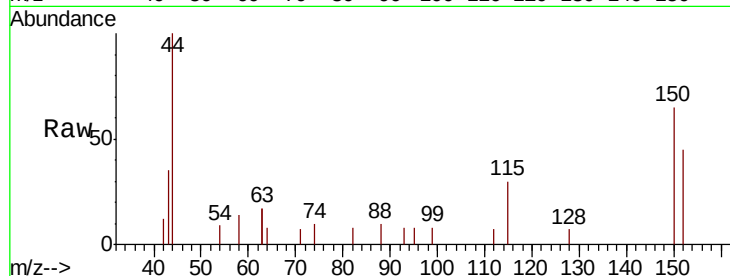
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.72 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

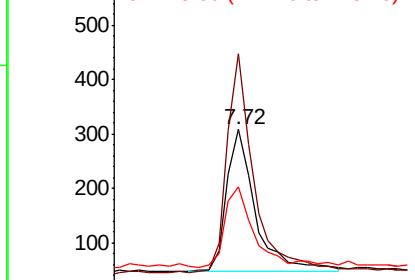
Tot Ion	Ratio	Lower	Upper
152	100		
150	145.1	99.8	149.8
115	66.2	51.3	76.9

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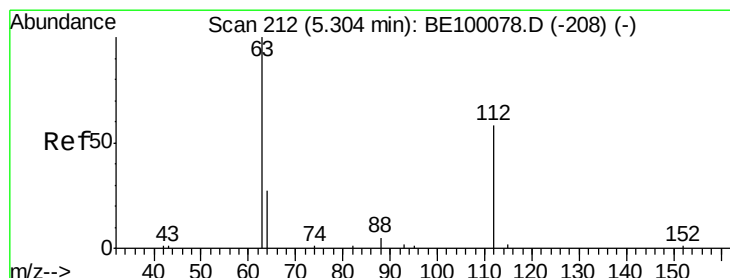
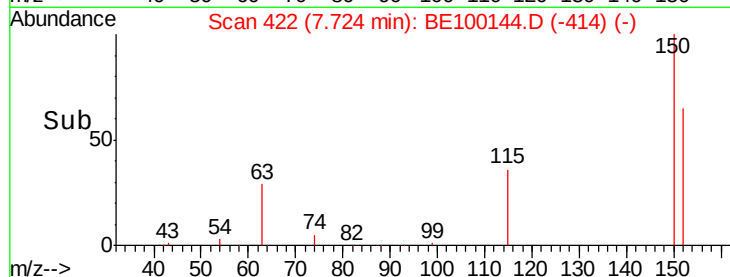
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



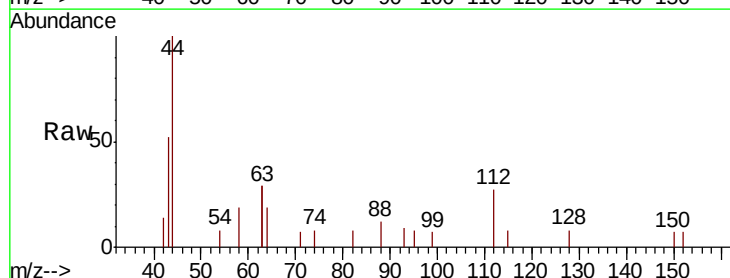
Time-->



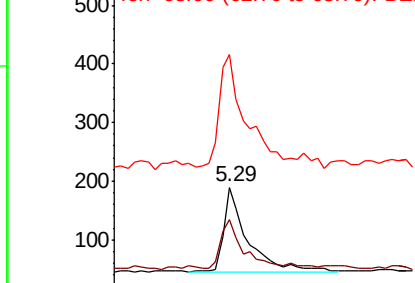
#4

2-Fluorophenol
Concen: 0.338 ng
RT: 5.29 min Scan# 211
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

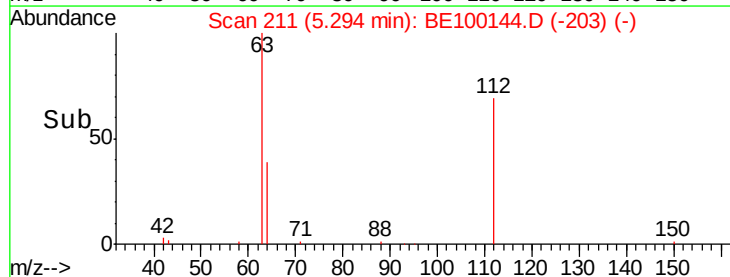
Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.2	22.0	33.0#
63	142.5	121.8	182.6

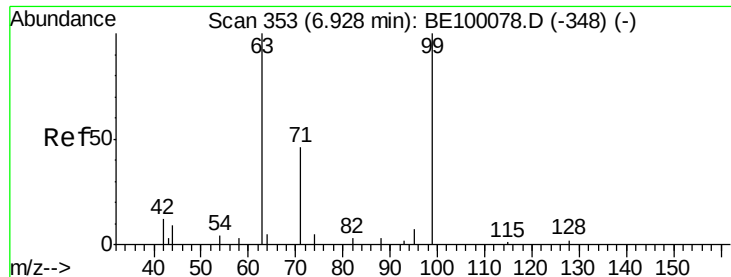


Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1



Time-->





#5

Phenol-d6

Concen: 0.360 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.02 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

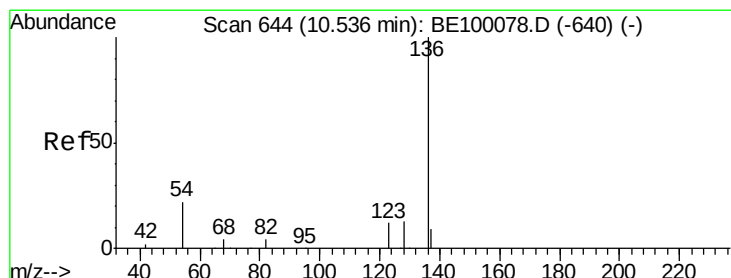
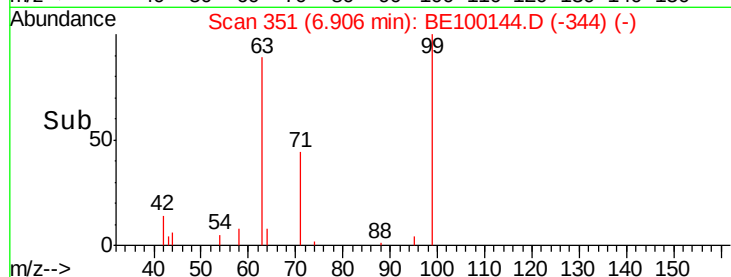
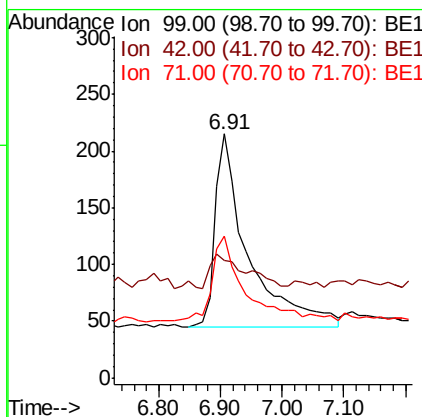
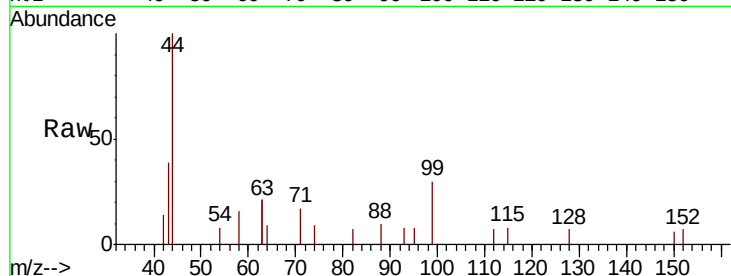
ClientSampleId :

PST-084-B043-061319

Tot Ion:	99	Resp:	623
Ion	Ratio	Lower	Upper
99	100		
42	16.5	0.0	0.0#
71	44.0	37.6	56.4

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#7

Naphthalene-d8

Concen: 0.400 ng

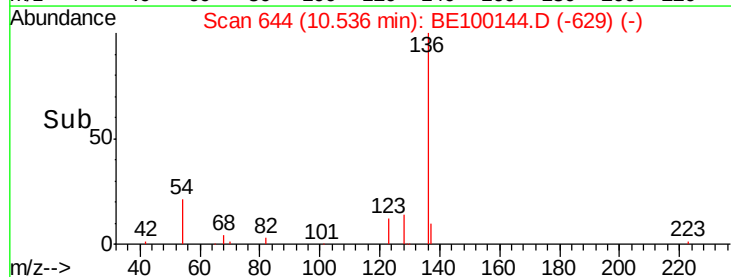
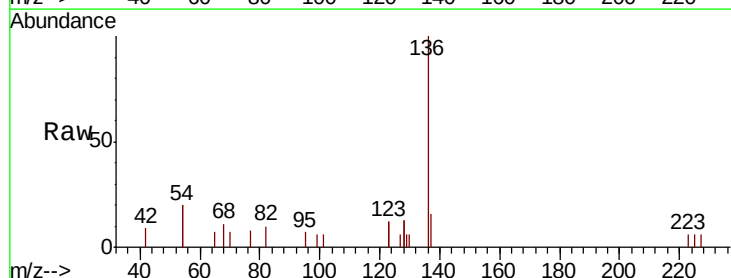
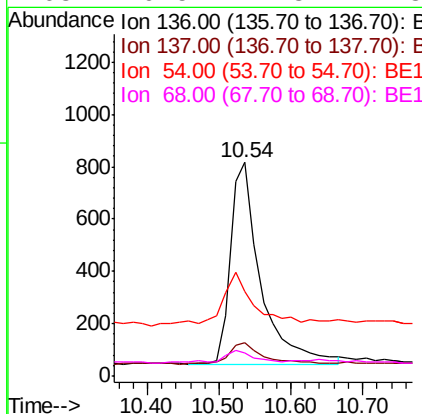
RT: 10.54 min Scan# 644

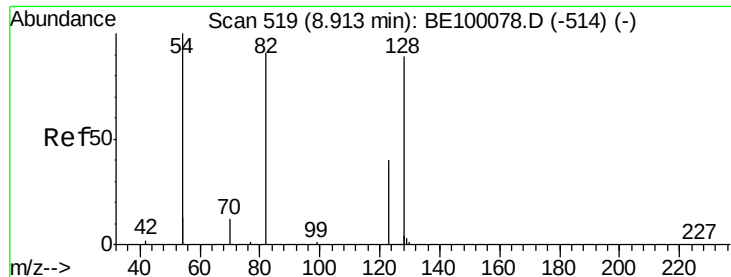
Delta R.T. -0.00 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Tgt Ion:	136	Resp:	2249
Ion	Ratio	Lower	Upper
136	100		
137	15.7	11.6	17.4
54	39.7	33.9	50.9
68	10.5	7.8	11.8





#8

Nitrobenzene-d5

Concen: 0.271 ng

RT: 8.92 min Scan# 520

Delta R.T. 0.01 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

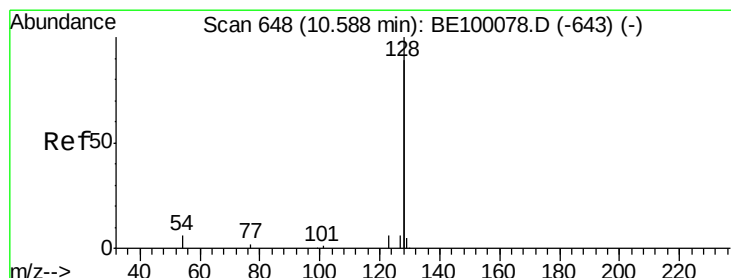
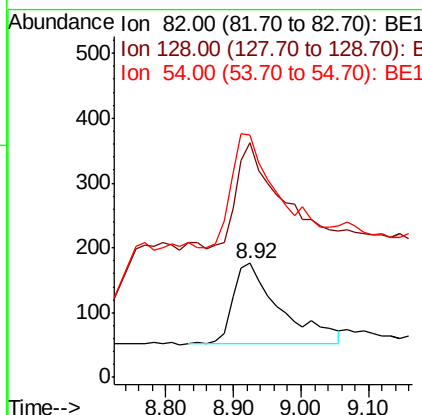
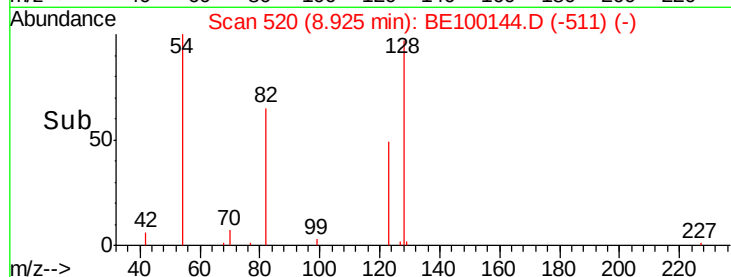
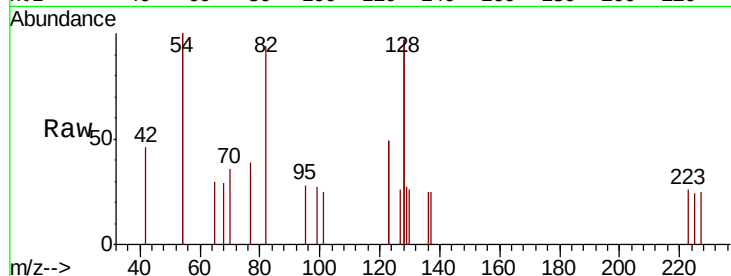
ClientSampleId :

PST-084-B043-061319

Tot Ion:	82	Resp:	591
Ion Ratio	Lower	Upper	
82	100		
128	205.7	128.0	192.0#
54	212.5	143.4	215.0

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#9

Naphthalene

Concen: 0.220 ng

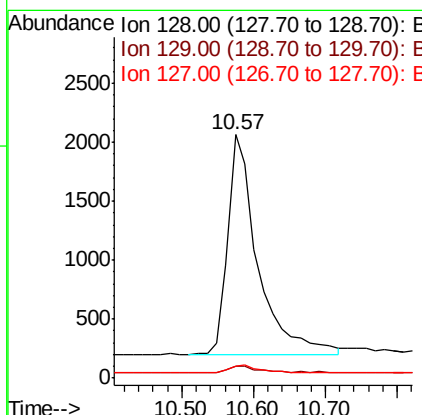
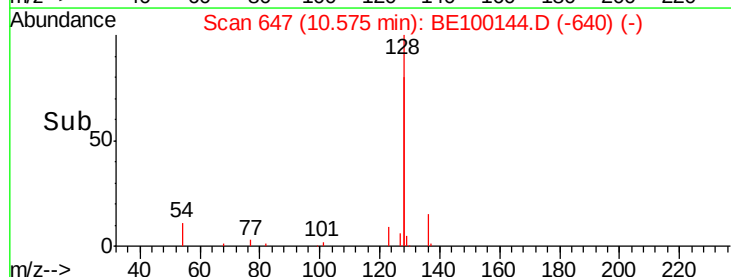
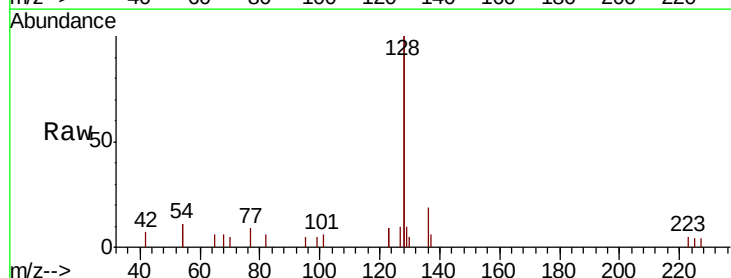
RT: 10.57 min Scan# 647

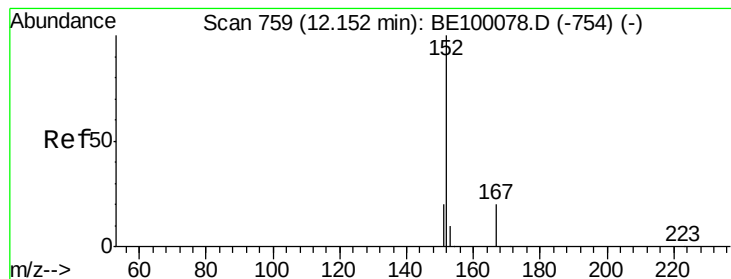
Delta R.T. -0.01 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Tgt Ion:	128	Resp:	5367
Ion Ratio	Lower	Upper	
128	100		
129	5.1	3.1	4.7#
127	5.1	3.4	5.2





#11

2-Methylnaphthalene-d10

Concen: 0.027 ng m

RT: 12.14 min Scan# 758

Delta R.T. -0.02 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

ClientSampleId :

PST-084-B043-061319

Tot Ion:152 Resp: 114

Ion Ratio Lower Upper

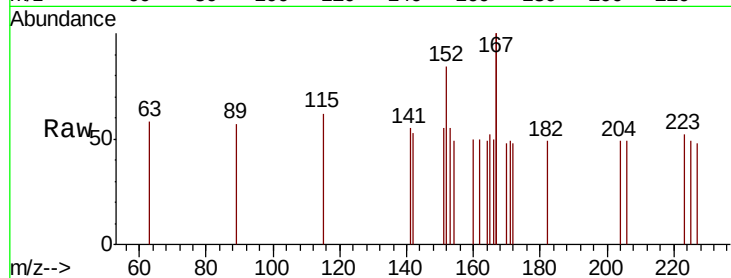
152 100

151 0.0 16.3 24.5#

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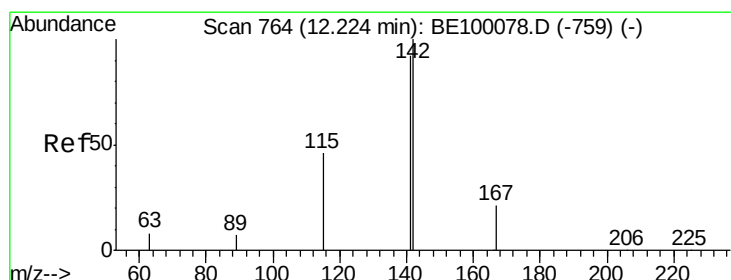
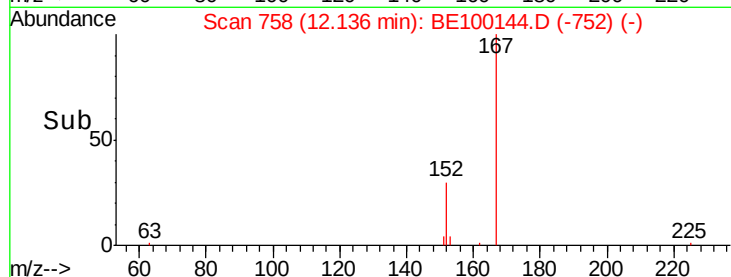


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.14

Time-->



#12

2-Methylnaphthalene

Concen: 0.142 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.00 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

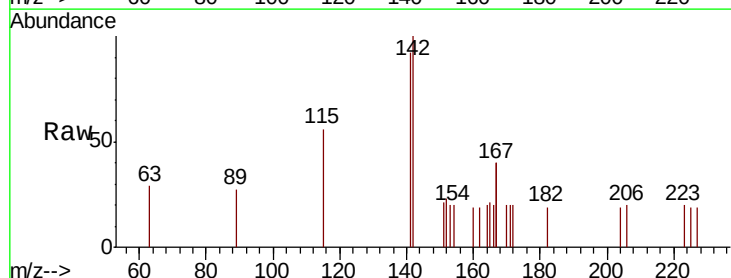
Tgt Ion:142 Resp: 572

Ion Ratio Lower Upper

142 100

141 92.2 74.1 111.1

115 55.7 40.9 61.3



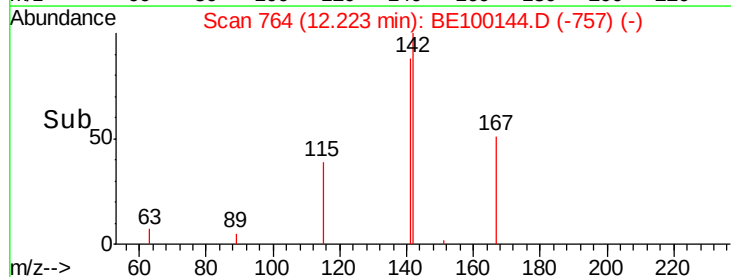
Abundance Ion 142.00 (141.70 to 142.70): E

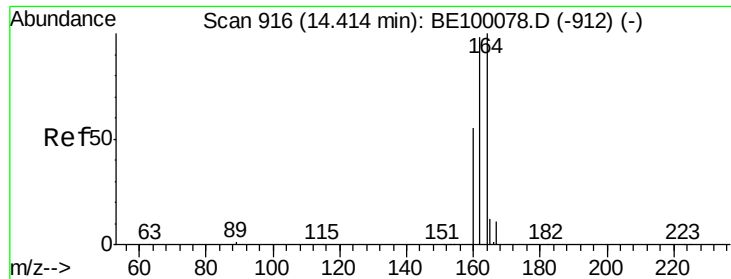
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.22

Time-->





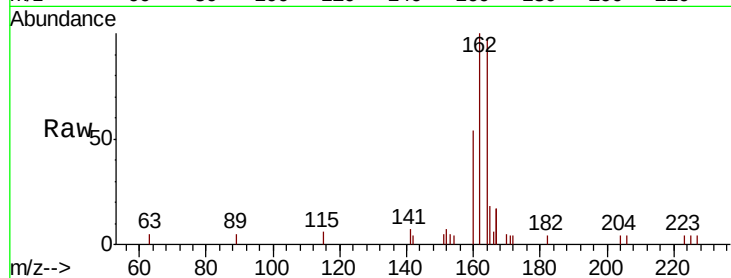
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.40 min Scan# 915
 Delta R.T. -0.02 min
 Lab File: BE100144.D
 Acq: 21 Jun 2019 19:54

Instrument :
 BNA_E
 ClientSampleId :
 PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	78.2	117.2
160	55.8	45.6	68.4

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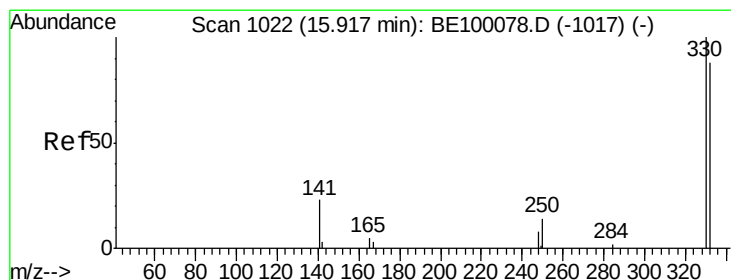
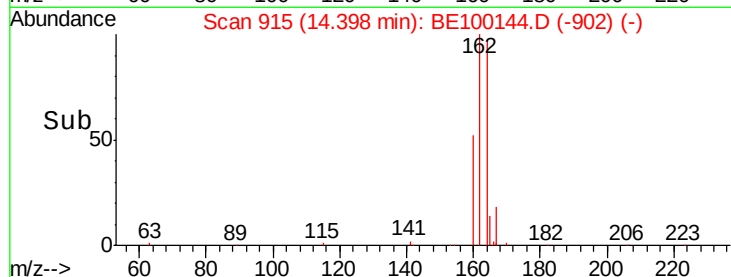
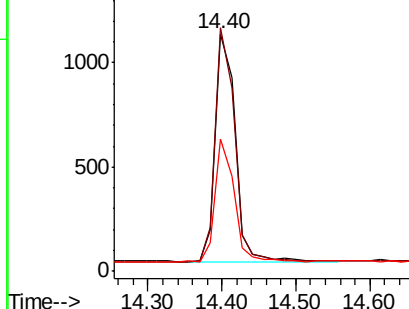


Abundance

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: 0.301 ng
 RT: 15.90 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BE100144.D
 Acq: 21 Jun 2019 19:54

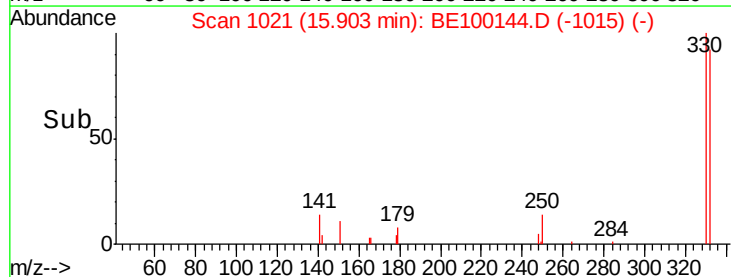
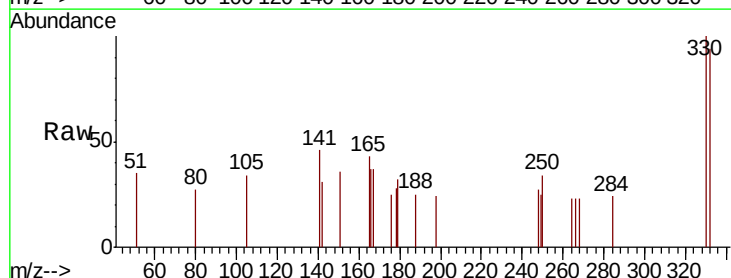
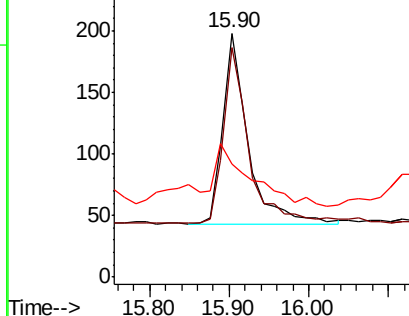
Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.3	73.3	109.9
141	45.8	22.2	33.2

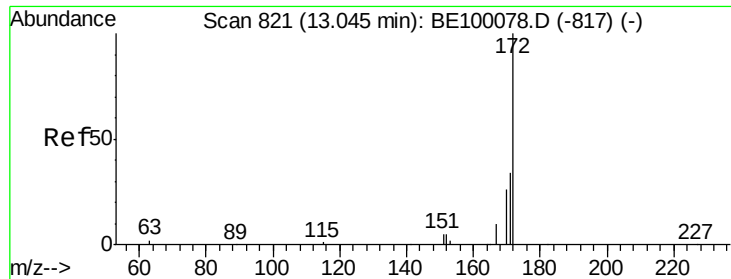
Abundance

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





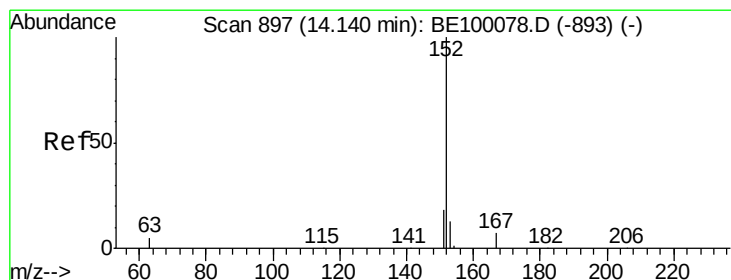
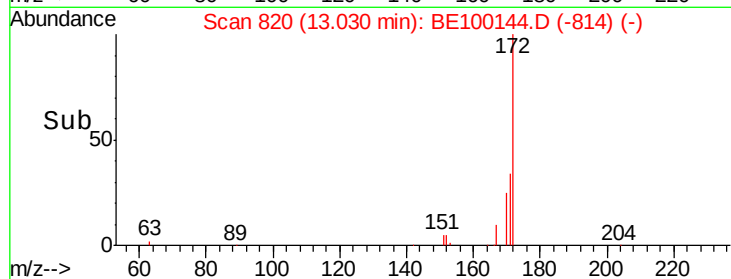
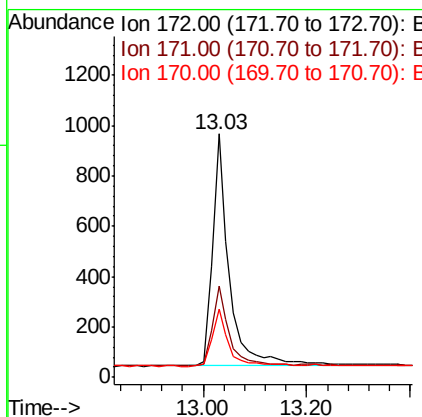
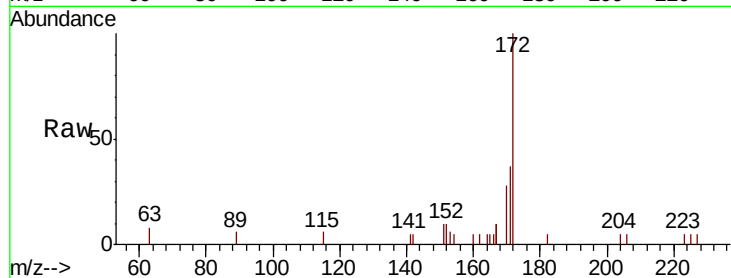
#15
2-Fluorobiphenyl
Concen: 0.259 ng
RT: 13.03 min Scan# 820
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.8	44.8
170	28.2	23.2	34.8

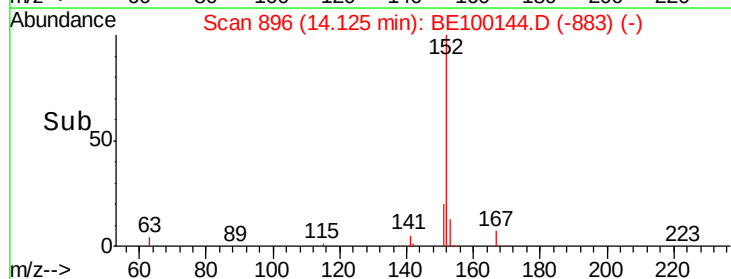
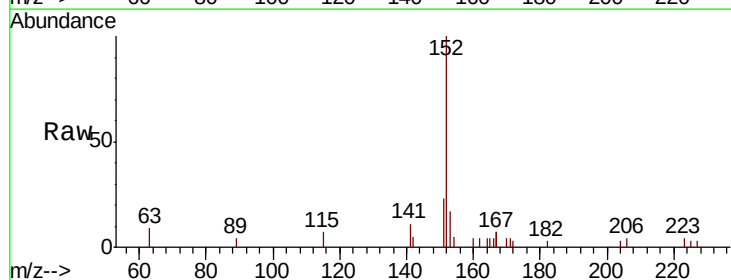
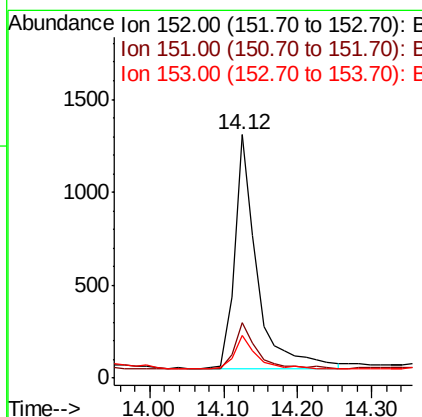
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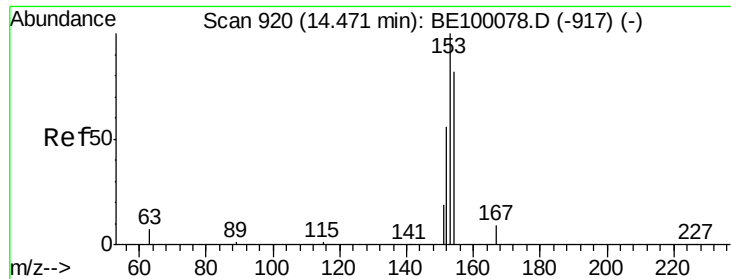
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#16
Acenaphthylene
Concen: 0.273 ng
RT: 14.12 min Scan# 896
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.9	23.9
153	14.0	10.1	15.1





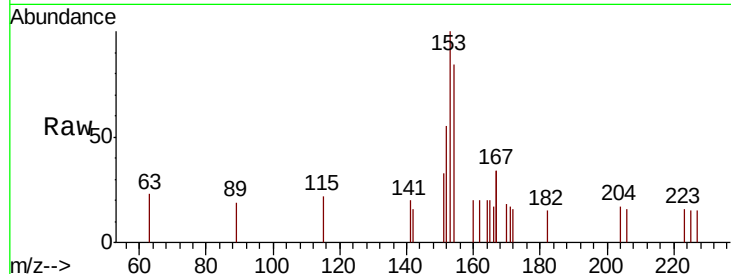
#17
Acenaphthene
Concen: 0.060 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.00 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	122.8	95.5	143.3
152	56.2	54.9	82.3

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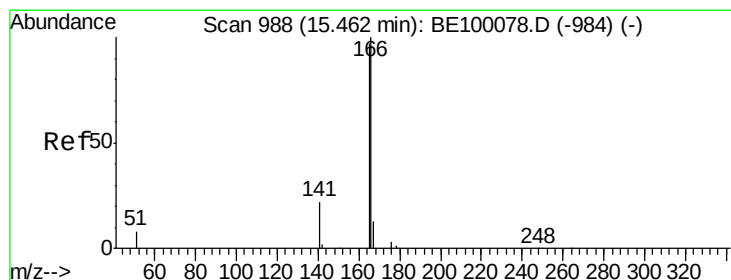
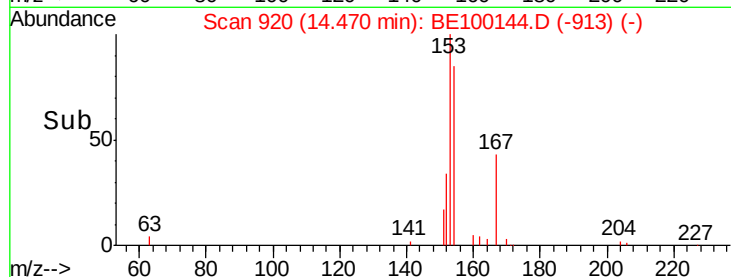
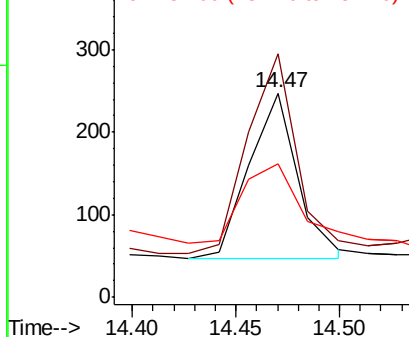


Abundance

Ion 154.00 (153.70 to 154.70): E

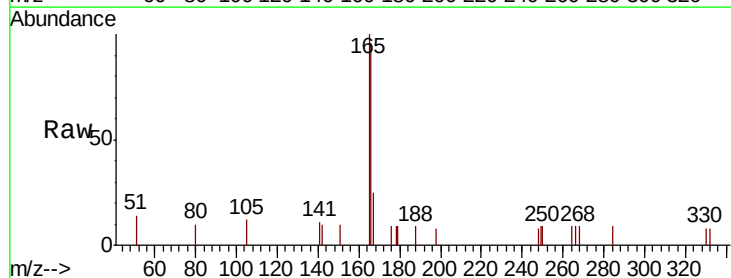
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.136 ng
RT: 15.45 min Scan# 987
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
166	100		
165	88.8	79.8	119.8
167	16.9	10.2	15.4#

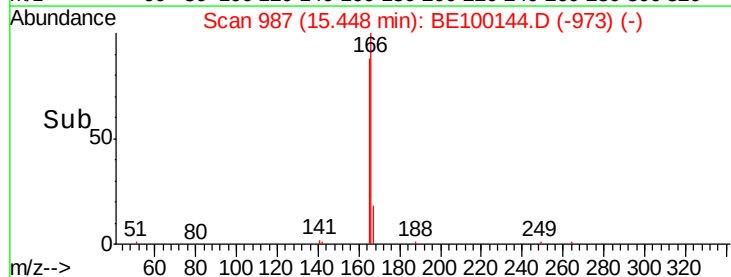
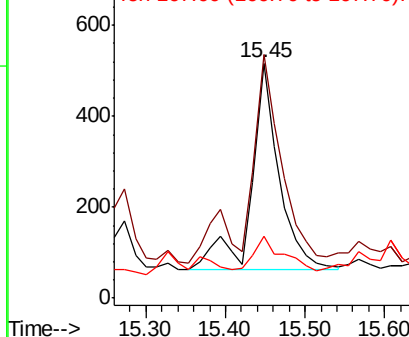


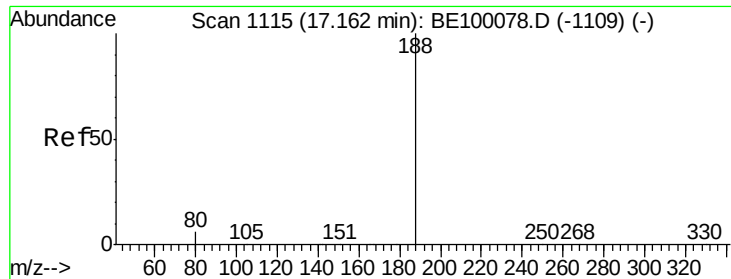
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





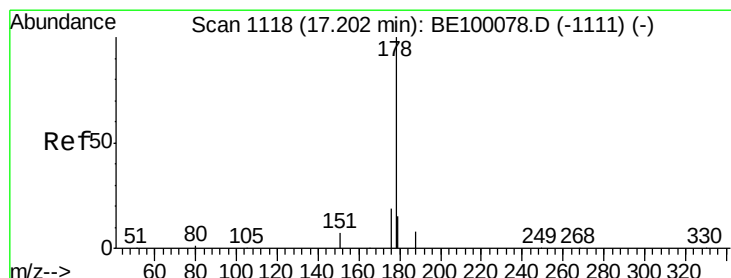
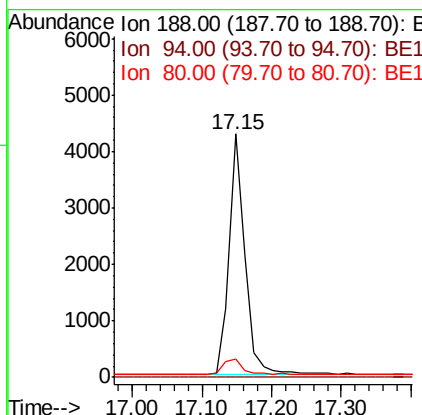
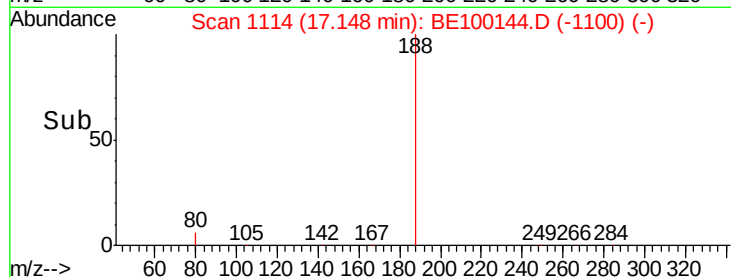
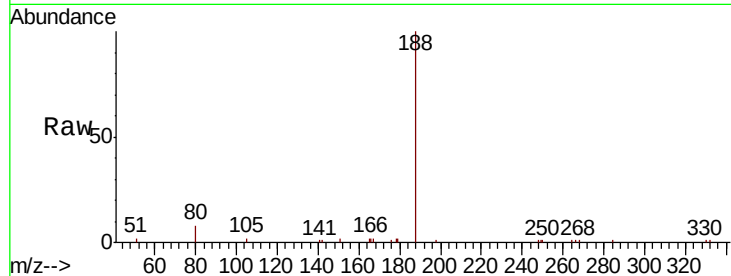
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.15 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion:188	Resp: 6785
Ion Ratio	Lower Upper
188 100	
94 0.0	0.0 0.0
80 7.6	6.3 9.5

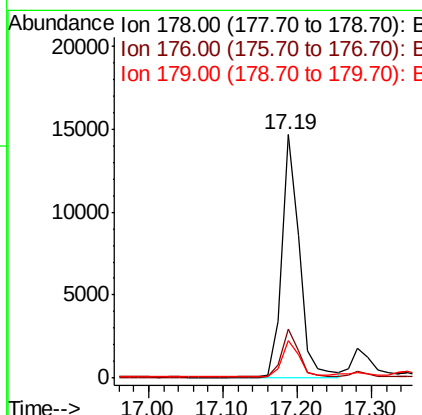
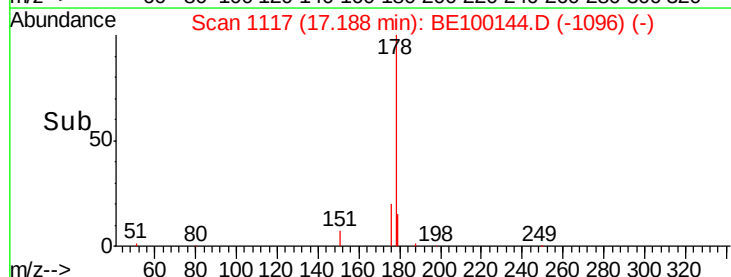
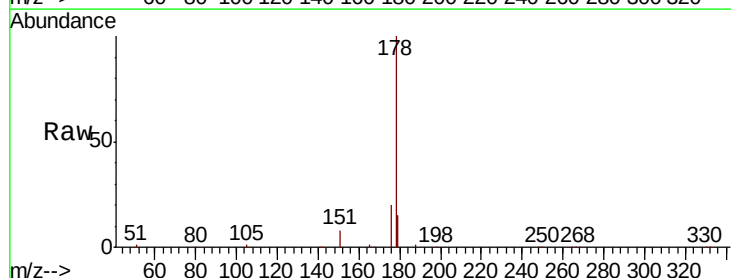
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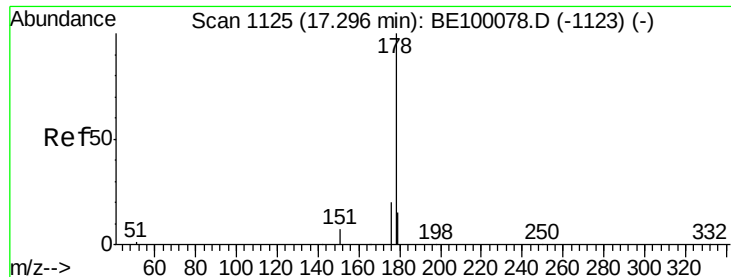
mohammad
6/25/2019 3:21:21 PM



#23
Phenanthrene
Concen: 1.446 ng
RT: 17.19 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion:178	Resp: 23504
Ion Ratio	Lower Upper
178 100	
176 19.6	15.9 23.9
179 15.4	13.1 19.7





#24

Anthracene

Concen: 0.220 ng

RT: 17.28 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

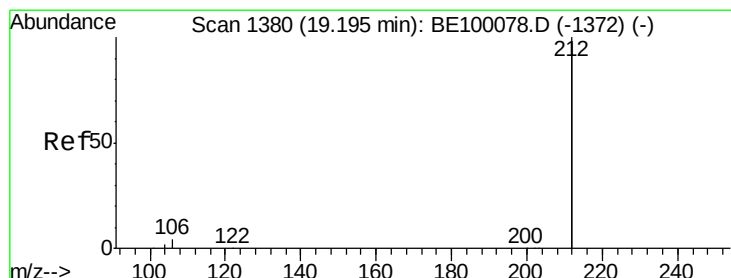
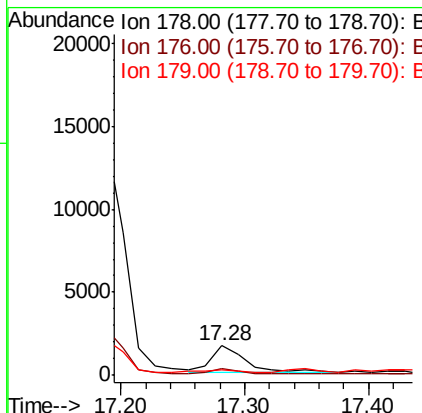
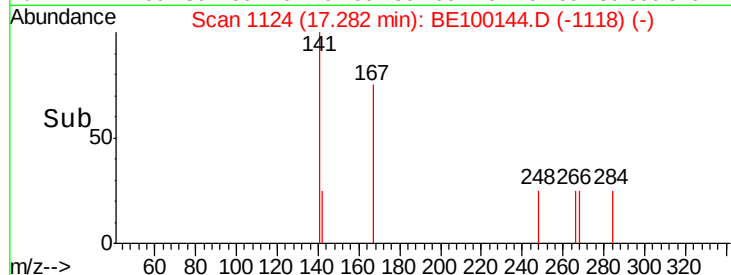
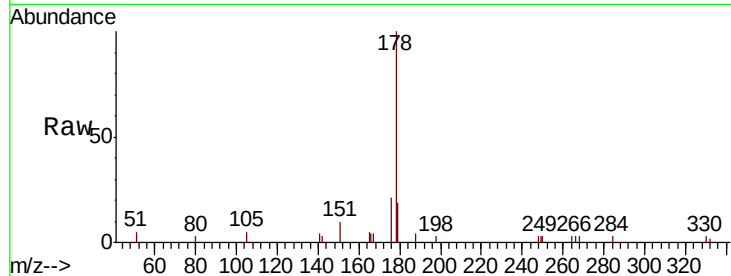
ClientSampleId :

PST-084-B043-061319

Tot Ion:	178	Resp:	3013
Ion Ratio	Lower	Upper	
178	100		
176	17.9	15.8	23.6
179	12.8	12.0	18.0

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#25

Fluoranthene-d10

Concen: 0.018 ng

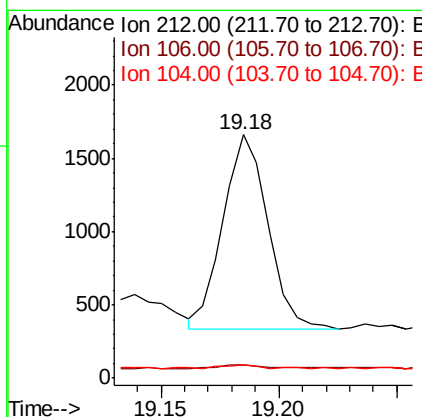
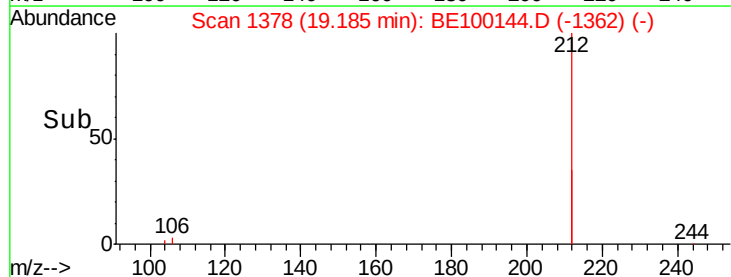
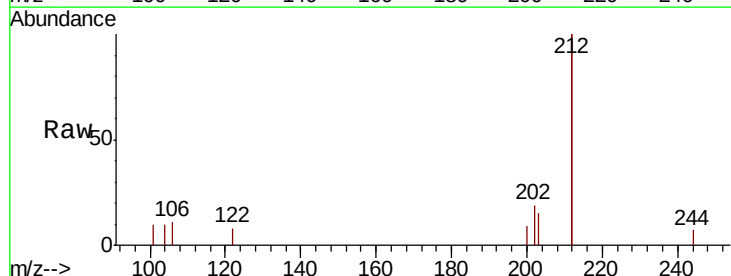
RT: 19.18 min Scan# 1378

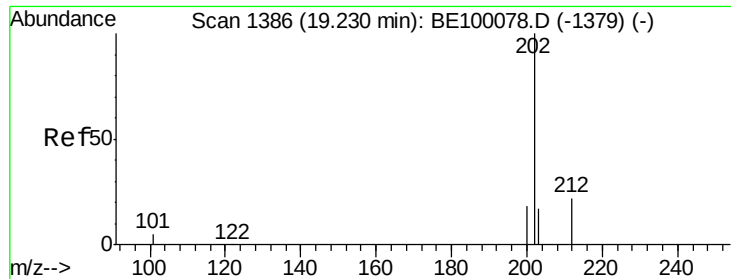
Delta R.T. -0.01 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Tgt Ion:	212	Resp:	1751
Ion Ratio	Lower	Upper	
212	100		
106	2.2	1.4	2.0#
104	1.8	0.8	1.2#





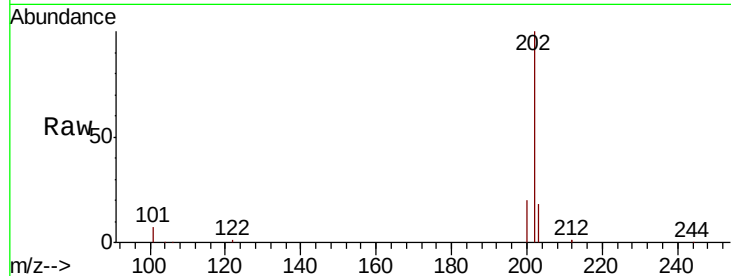
#26
Fluoranthene
Concen: 1.795 ng
RT: 19.21 min Scan# 1383
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
202	100		
101	6.3	5.0	7.4
203	17.8	13.7	20.5

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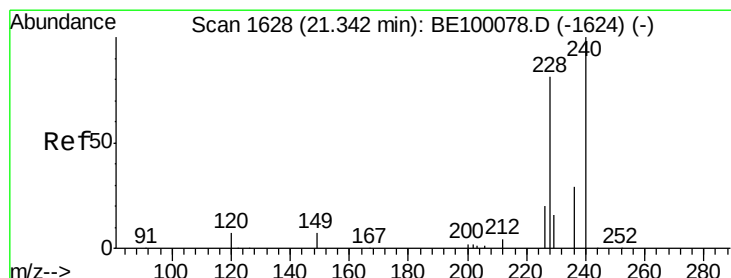
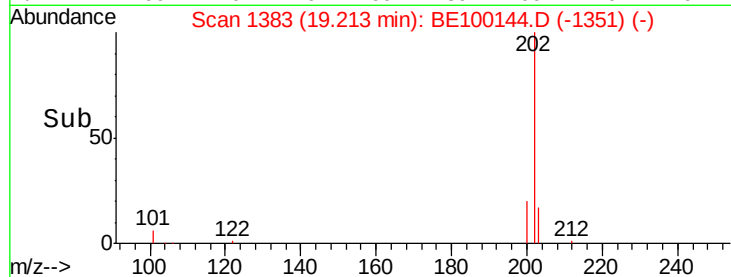
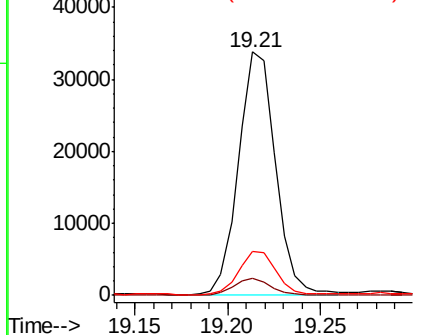


Abundance

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: 21.34 min Scan# 1628
Delta R.T. 0.00 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

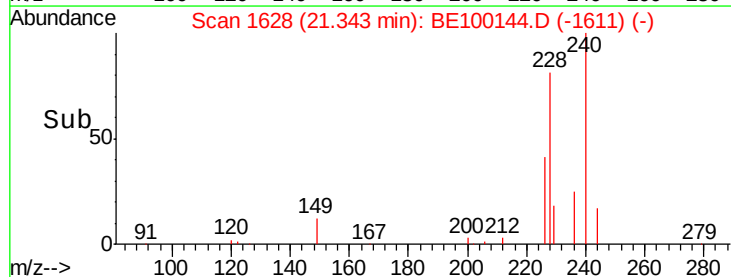
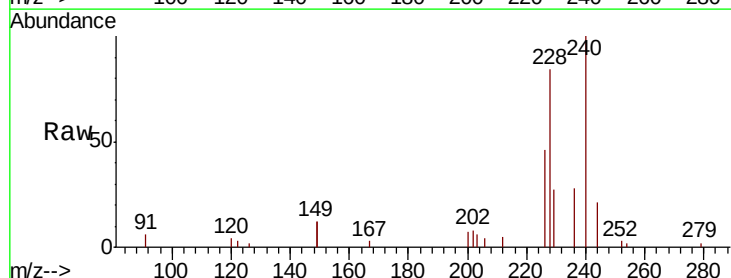
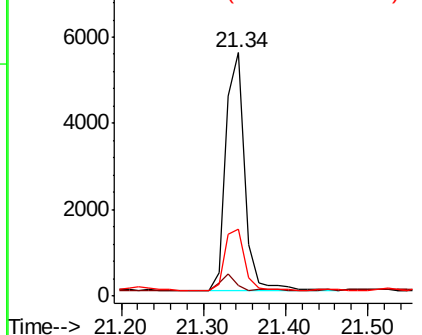
Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.4	6.6	10.0#
236	27.6	23.8	35.6

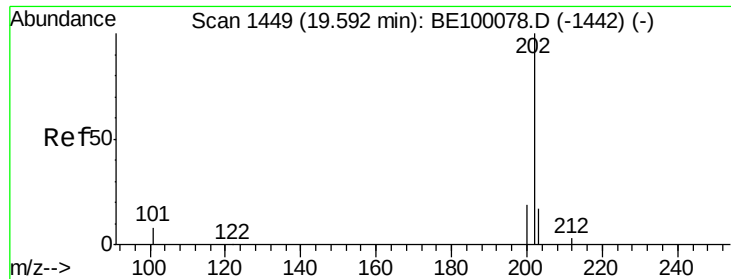
Abundance

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





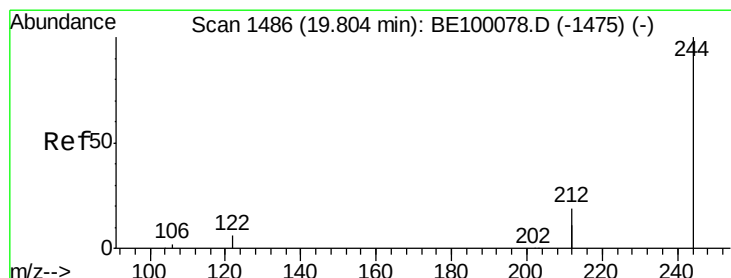
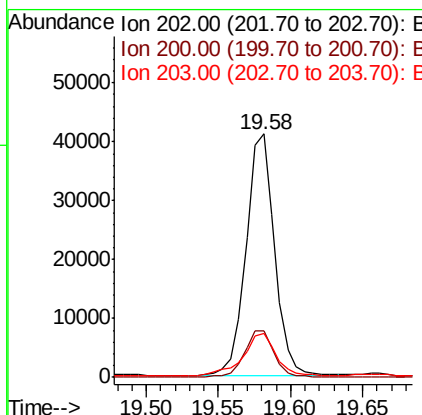
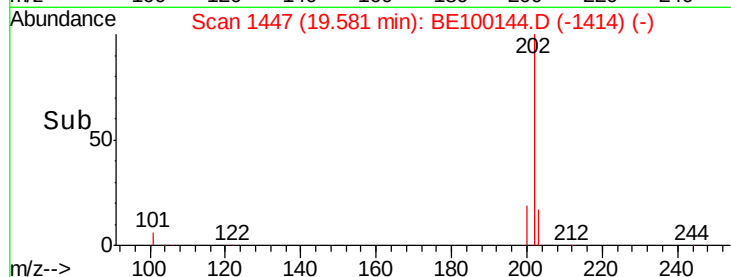
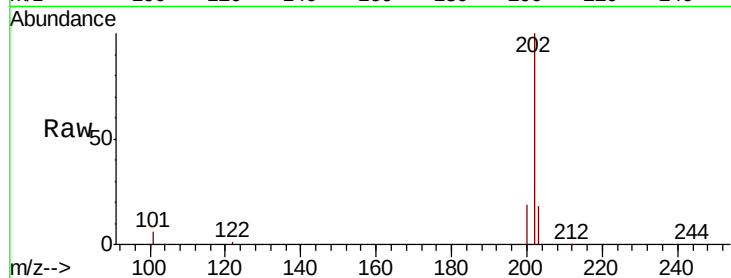
#28
Pvrene
Concen: 2.540 ng
RT: 19.58 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.6	23.4
203	20.4	13.9	20.9

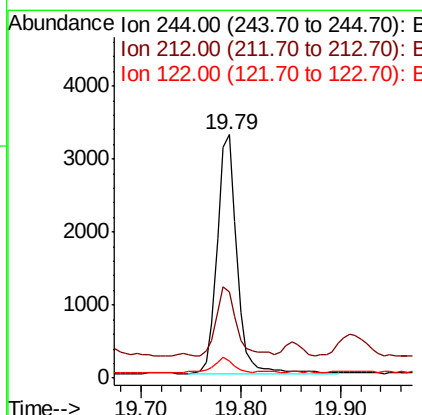
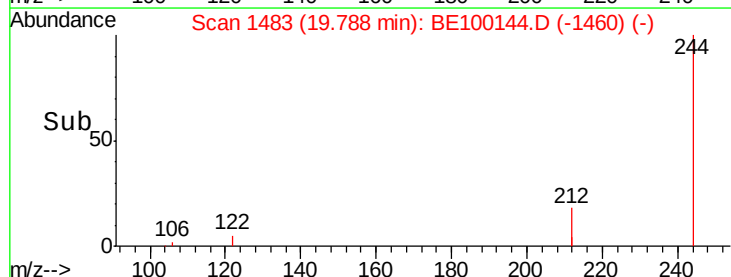
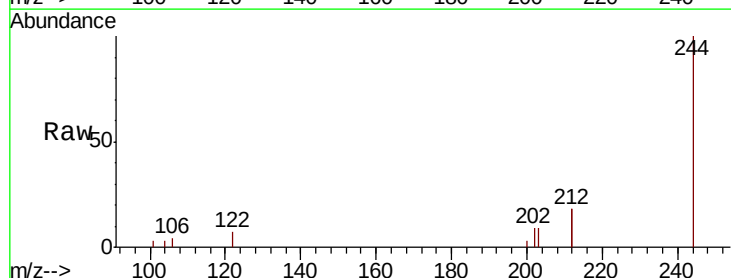
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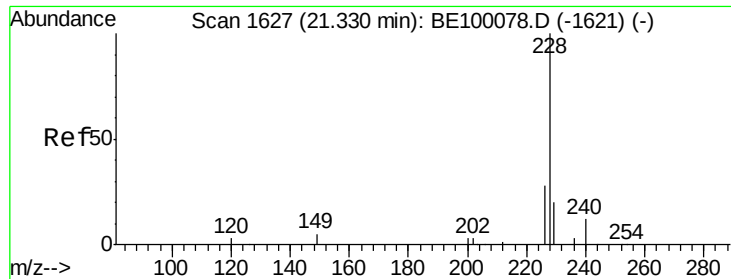
mohammad
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#29
Terphenyl-d14
Concen: 0.254 ng
RT: 19.79 min Scan# 1483
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	35.5	29.8	44.8
122	7.1	6.1	9.1





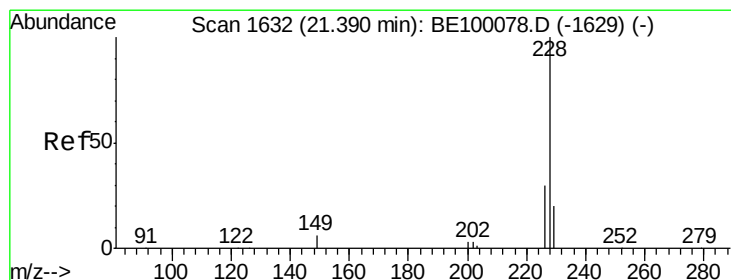
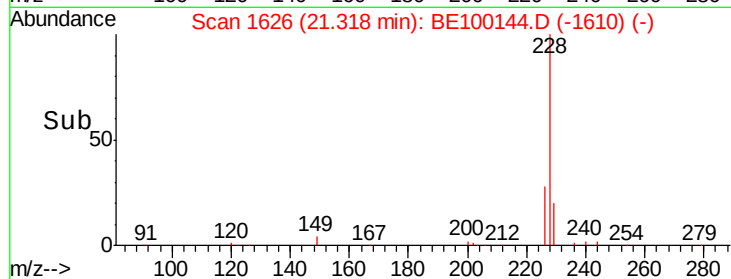
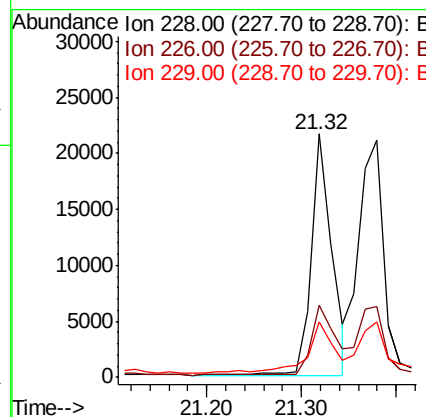
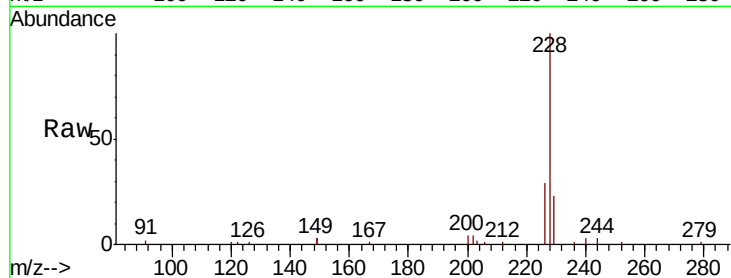
#30
Benzo(a)anthracene
Concen: 1.236 ng
RT: 21.32 min Scan# 1626
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.0	34.4
229	22.6	16.4	24.6

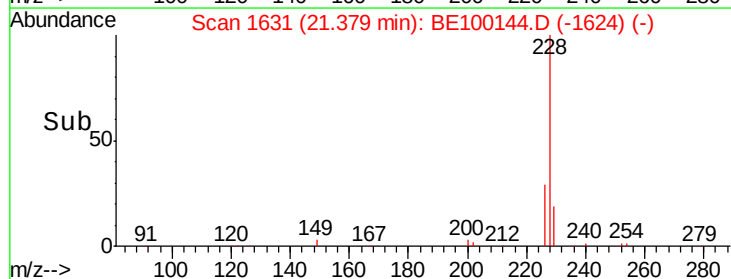
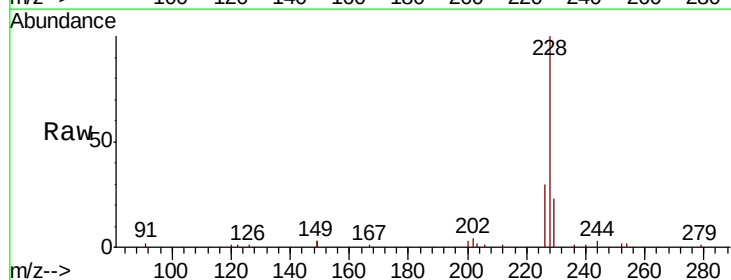
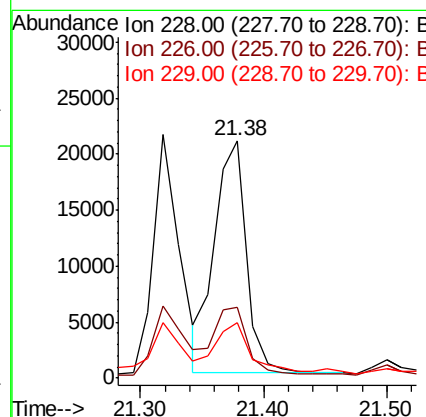
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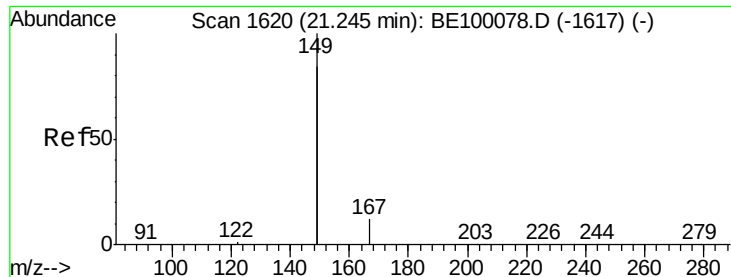
mohammad
6/25/2019 3:21:21 PM



#31
Chrysene
Concen: 1.229 ng
RT: 21.38 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.8
229	23.3	16.3	24.5





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.320 ng

RT: 21.25 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

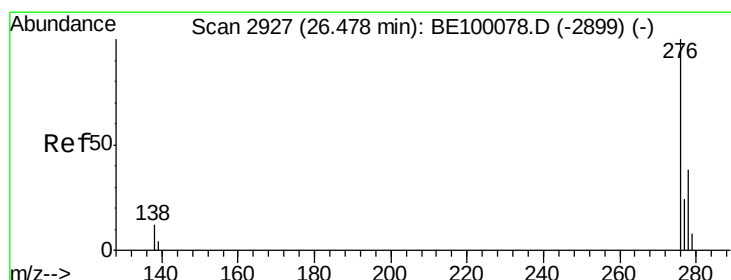
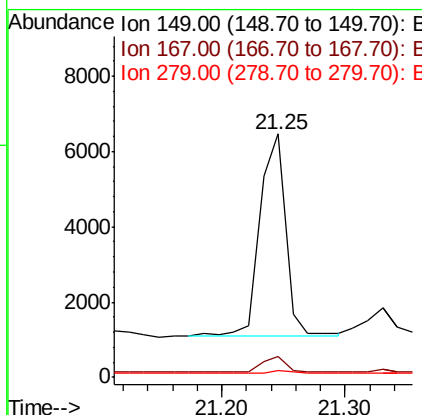
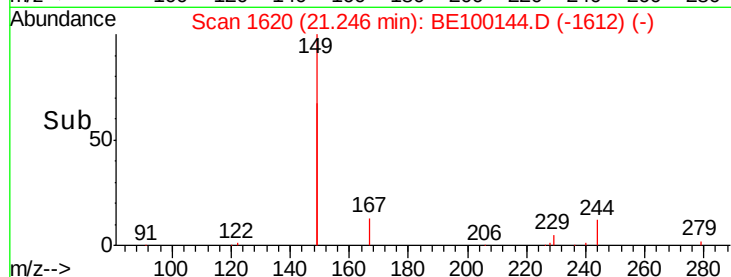
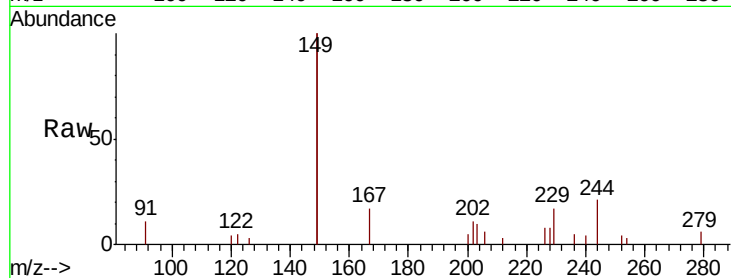
ClientSampleId :

PST-084-B043-061319

Tot Ion:	149	Resp:	7910
Ion Ratio	Lower	Upper	
149	100		
167	7.4	5.8	8.6
279	1.4	1.1	1.7

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6/25/2019 3:21:21 PM



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.532 ng

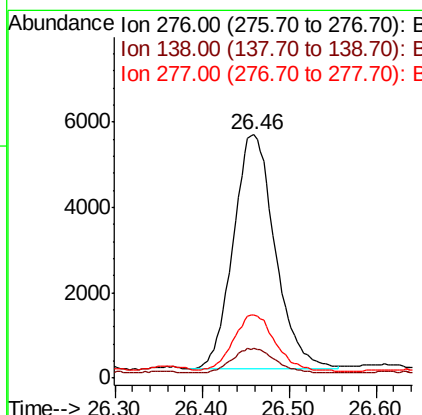
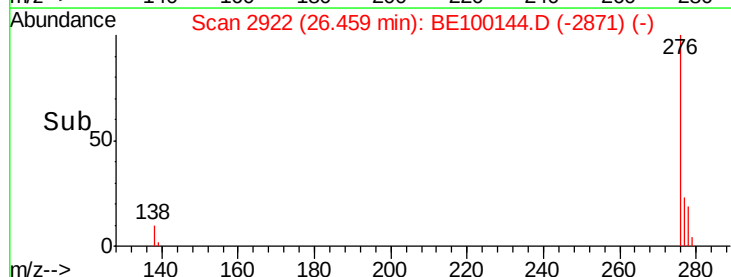
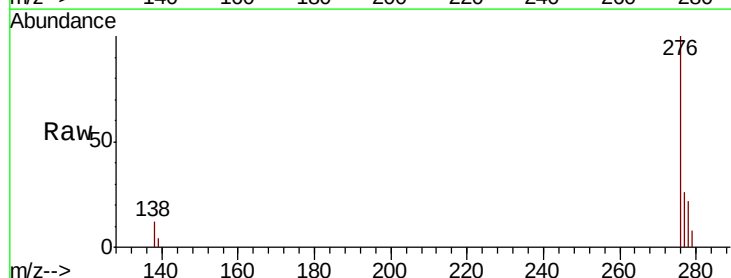
RT: 26.46 min Scan# 2922

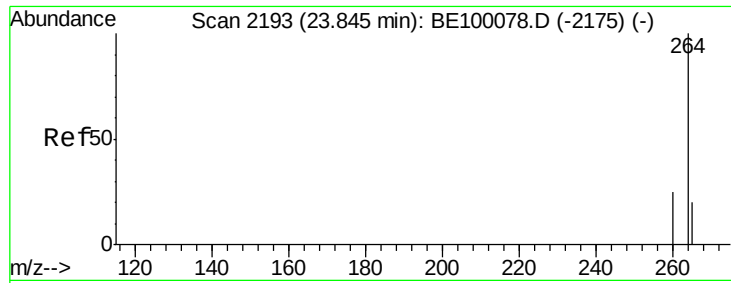
Delta R.T. -0.02 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Tgt Ion:	276	Resp:	18229
Ion Ratio	Lower	Upper	
276	100		
138	10.9	4.3	6.5#
277	23.5	19.4	29.0





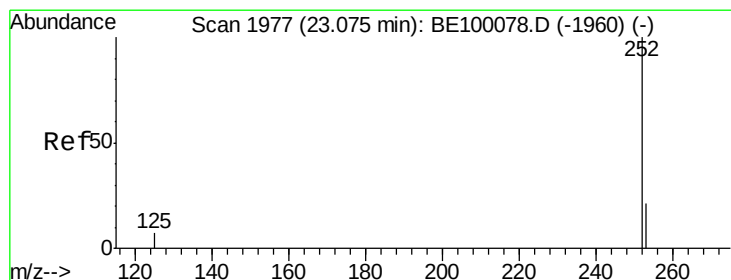
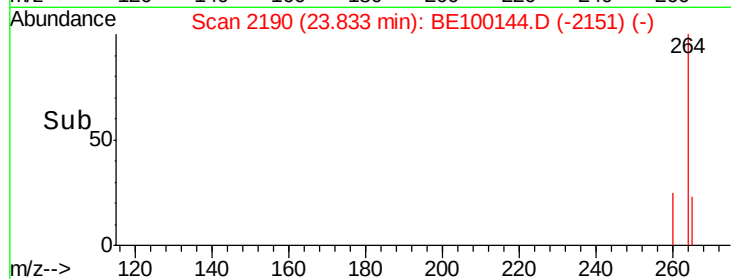
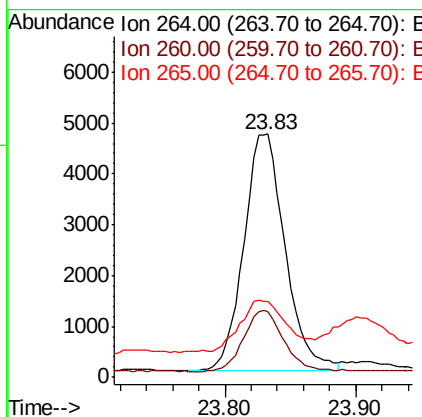
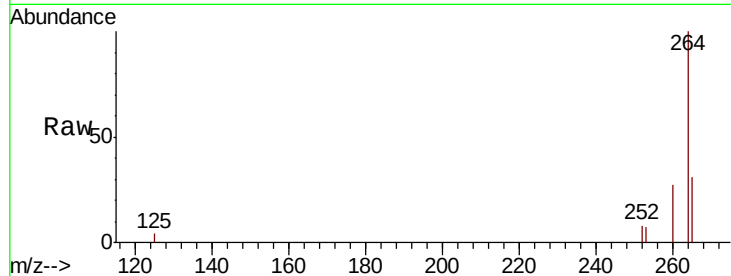
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.83 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.9	20.8	31.2
265	31.4	23.2	34.8

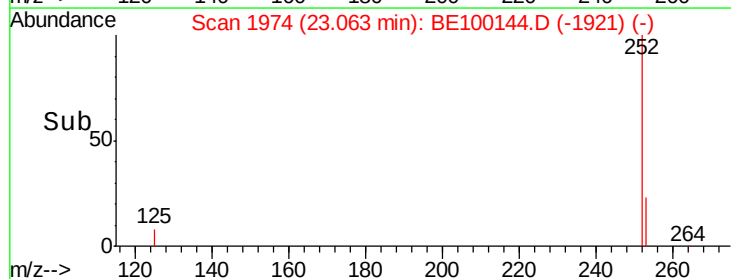
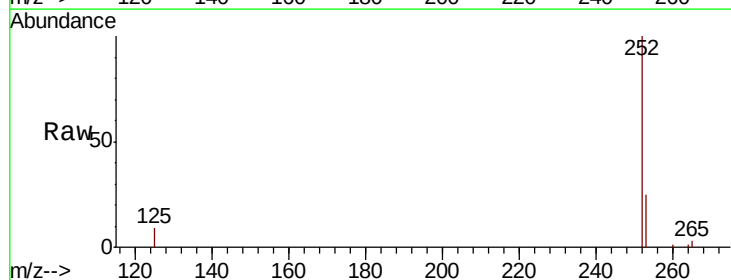
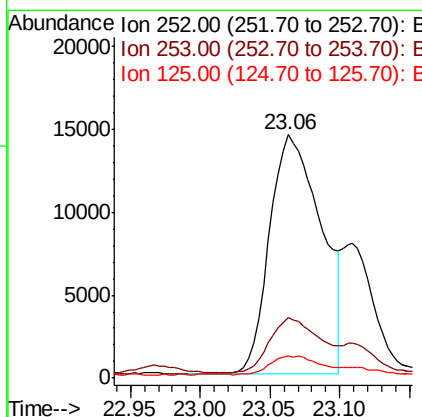
Manual Integrations
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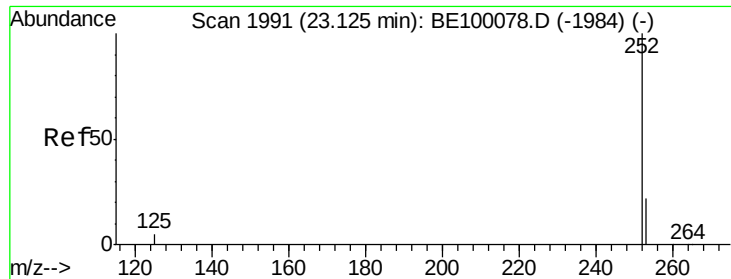
mohammad
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#35
Benzo(b)fluoranthene
Concen: 1.240 ng
RT: 23.06 min Scan# 1974
Delta R.T. -0.01 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.4	27.6
125	9.1	6.4	9.6





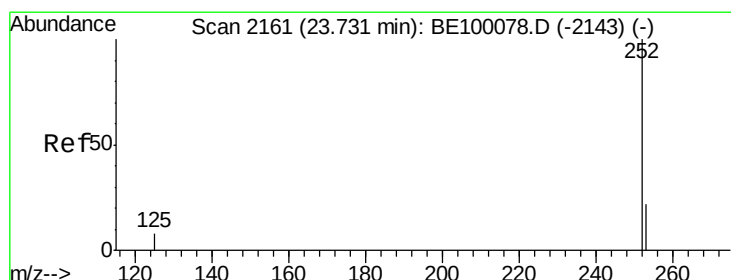
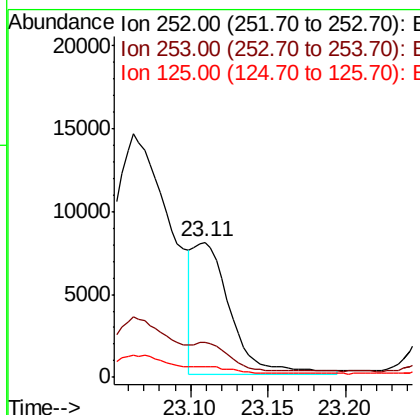
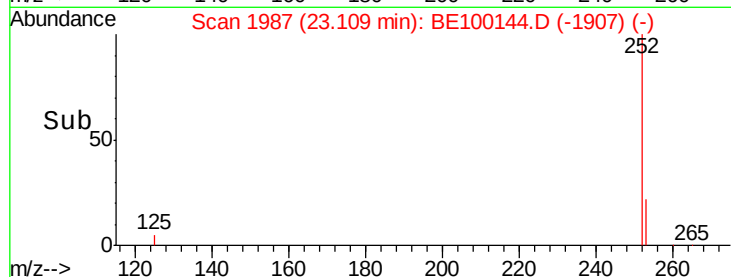
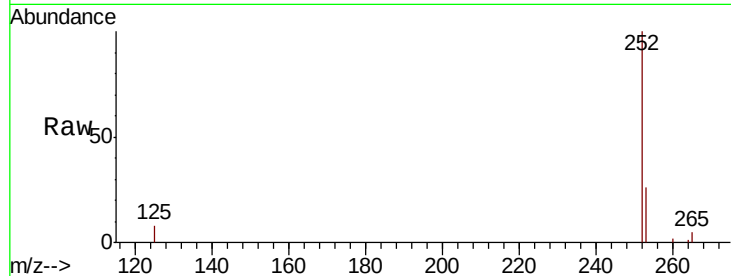
#36
Benzo(k)fluoranthene
Concen: 0.392 ng m
RT: 23.11 min Scan# 1987
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Instrument :
BNA_E
ClientSampleId :
PST-084-B043-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.6	18.9	28.3
125	8.0	5.3	7.9

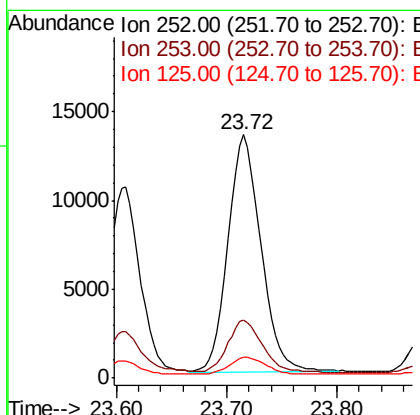
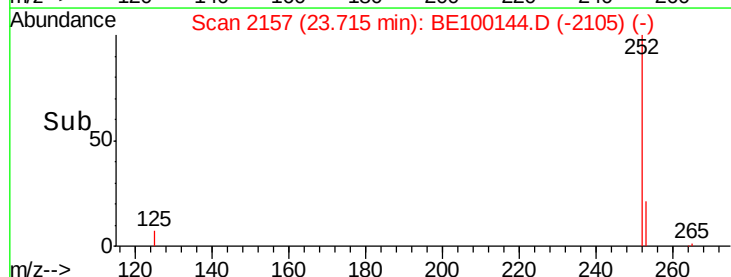
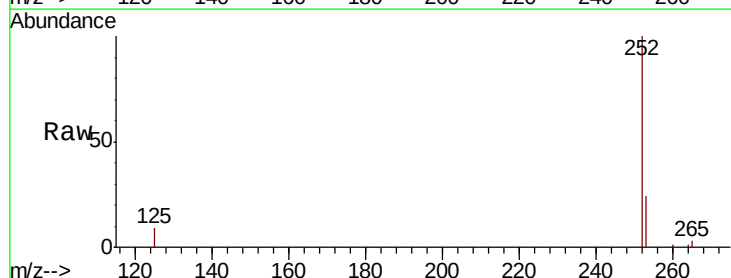
Manual Integrations
APPROVED

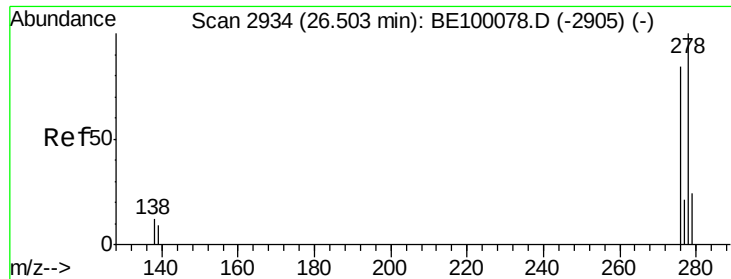
mohammad
6/25/2019 3:21:21 PM



#37
Benzo(a)pyrene
Concen: 0.963 ng
RT: 23.72 min Scan# 2157
Delta R.T. -0.02 min
Lab File: BE100144.D
Acq: 21 Jun 2019 19:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.4	29.2
125	8.5	8.0	12.0





#38

Dibenzo(a,h)anthracene

Concen: 0.165 ng

RT: 26.47 min Scan# 2925

Delta R.T. -0.03 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Instrument :

BNA_E

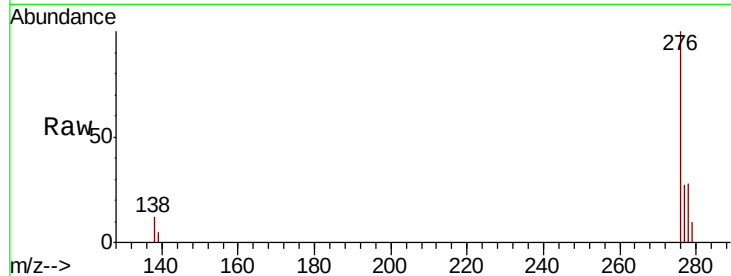
ClientSampleId :

PST-084-B043-061319

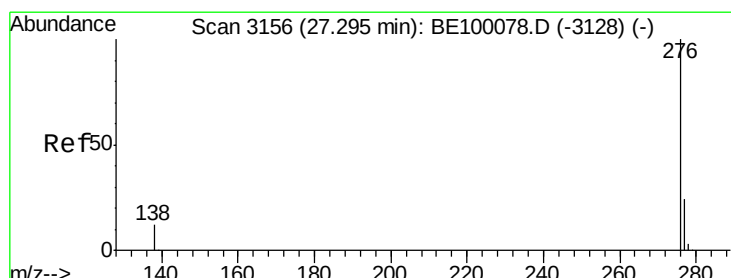
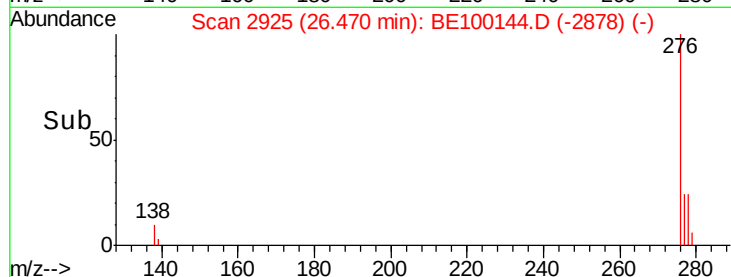
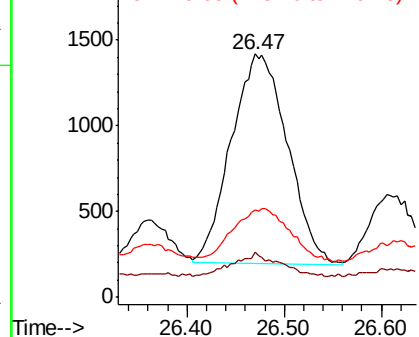
Tot Ion:	278	Resp:	4907
Ion Ratio	Lower	Upper	
278	100		
139	18.3	9.0	13.6#
279	35.9	21.4	32.0#

Manual Integrations
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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.655 ng

RT: 27.27 min Scan# 3150

Delta R.T. -0.02 min

Lab File: BE100144.D

Acq: 21 Jun 2019 19:54

Tgt Ion:	276	Resp:	20236
Ion Ratio	Lower	Upper	
276	100		
277	25.1	20.3	30.5
138	12.2	11.3	16.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

