

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100222.D
 Acq On : 28 Jun 2019 1:41
 Operator : JU/SJ
 Sample : K3428-21
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW162-061319

Manual Integrations
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mohammad
 7/1/2019 8:12:37 AM

Quant Time: Jun 28 06:40:41 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 05:41:07 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	1016	0.40	ng	0.00
7) Naphthalene-d8	10.45	136	3668	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	2827	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	7661	0.40	ng	0.00
27) Chrysene-d12	21.24	240	10644	0.40	ng	0.00
34) Perylene-d12	23.68	264	11889	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.23	112	787	0.35	ng	0.00
5) Phenol-d6	6.83	99	1113	0.36	ng	-0.02
8) Nitrobenzene-d5	8.81	82	1136	0.31	ng	-0.02
11) 2-Methylnaphthalene-d10	12.05	152	2699	0.39	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	596	0.36	ng	-0.03
15) 2-Fluorobiphenyl	12.94	172	2908	0.26	ng	-0.01
25) Fluoranthene-d10	19.10	212	39074	0.35	ng	0.00
29) Terphenyl-d14	19.70	244	4565	0.22	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.50	128	7219	0.180	ng	99
12) 2-Methylnaphthalene	12.12	142	1210	0.188	ng	97
16) Acenaphthylene	14.04	152	7712	0.559	ng	98
17) Acenaphthene	14.38	154	1362	0.176	ng	98
18) Fluorene	15.37	166	3693	0.331	ng	# 90
22) Pentachlorophenol	16.72	266	109	0.333	ng	98
23) Phenanthrene	17.11	178	85078	4.688	ng	100
24) Anthracene	17.20	178	14410	0.940	ng	98
26) Fluoranthene	19.13	202	273686	9.271	ng	99
28) Pvrene	19.49	202	272940	10.013	ng	# 95
30) Benzo(a)anthracene	21.23	228	232587	7.412	ng	98
31) Chrysene	21.28	228	231379	6.286	ng	97
32) Bis(2-ethylhexyl)phthalate	21.16	149	153300	4.250	ng	100
33) Indeno(1,2,3-cd)pyrene	26.24	276	171815	3.279	ng	# 96
35) Benzo(b)fluoranthene	22.93	252	318689	9.966	ng	# 97
36) Benzo(k)fluoranthene	22.98	252	107621m	2.813	ng	
37) Benzo(a)pvrene	23.57	252	224456	6.774	ng	# 94
38) Dibenzo(a,h)anthracene	26.25	278	44034	1.242	ng	# 96
39) Benzo(g,h,i)perylene	27.03	276	174602	4.718	ng	# 97

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

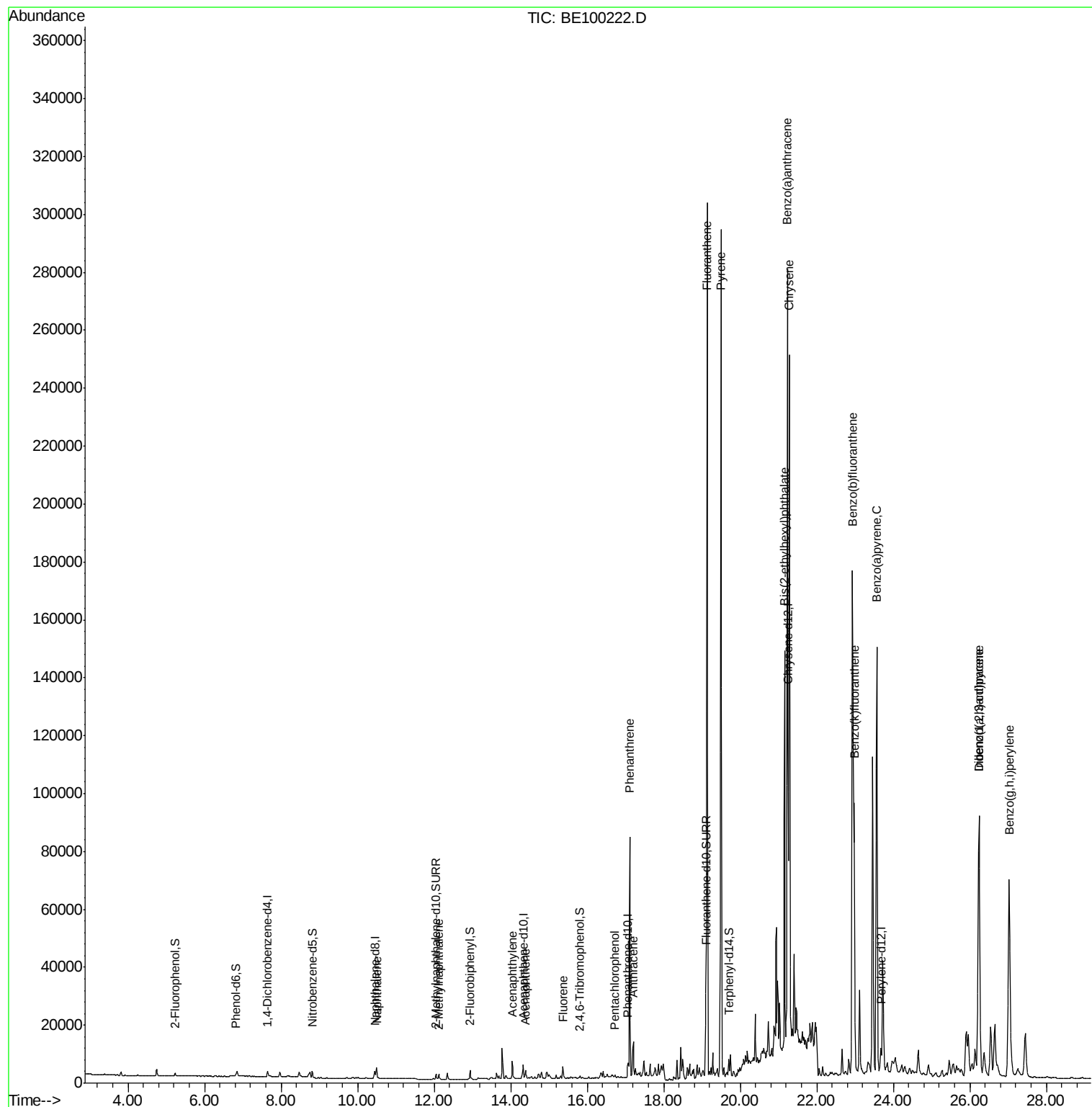
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
Data File : BE100222.D
Acq On : 28 Jun 2019 1:41
Operator : JU/SJ
Sample : K3428-21
Misc :
ALS Vial : 16 Sample Multiplier: 1

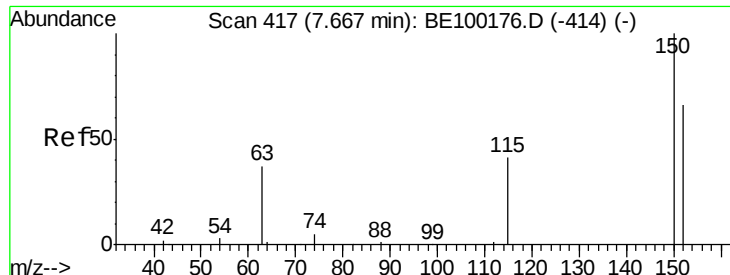
Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

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QLast Update : Fri Jun 28 05:41:07 2019
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#1

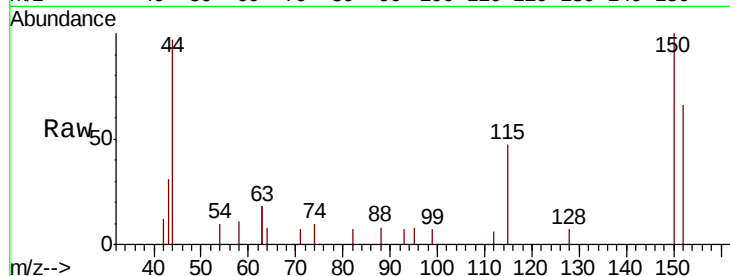
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.64 min Scan# 415
Delta R.T. -0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	113.4	170.2
115	71.2	55.8	83.6

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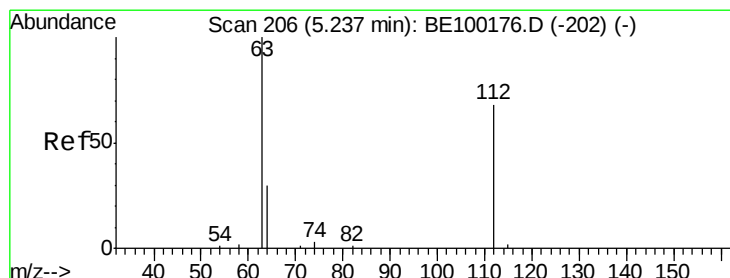
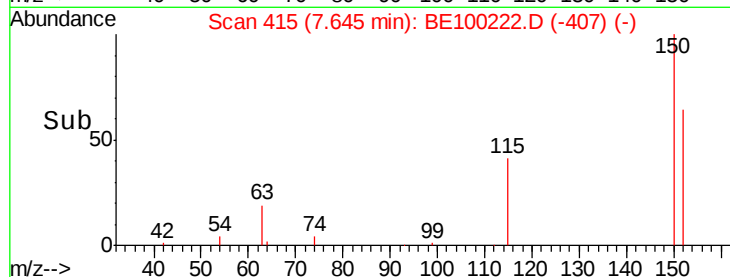
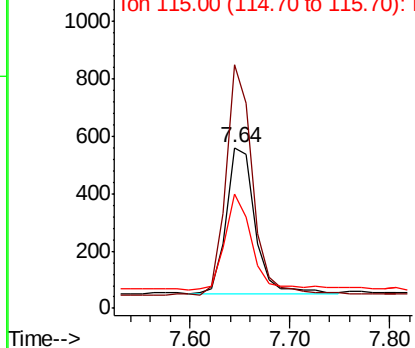


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

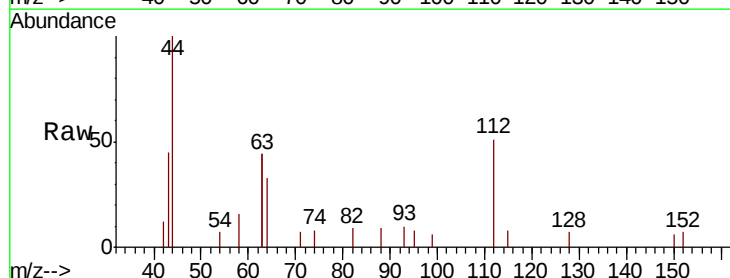
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.348 ng
RT: 5.23 min Scan# 205
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.0	40.7	61.1
63	139.3	93.2	139.8

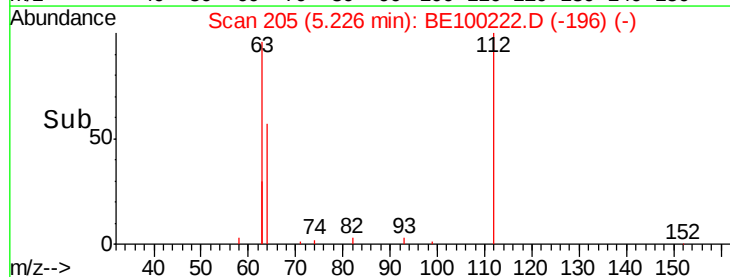
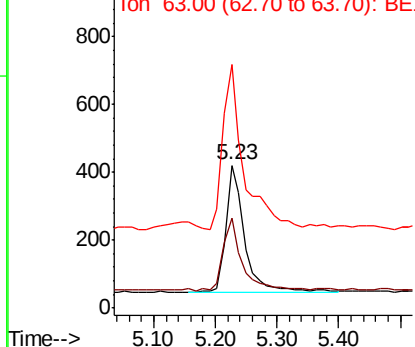


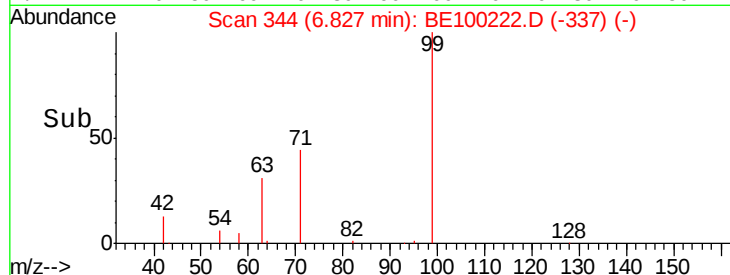
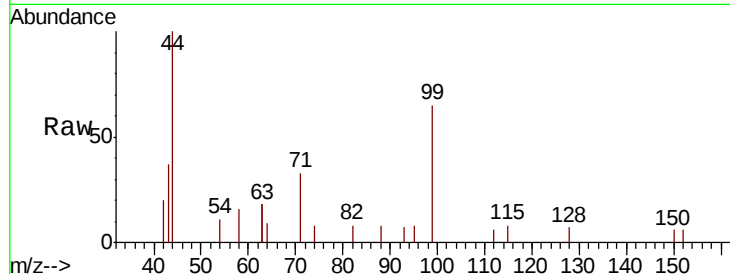
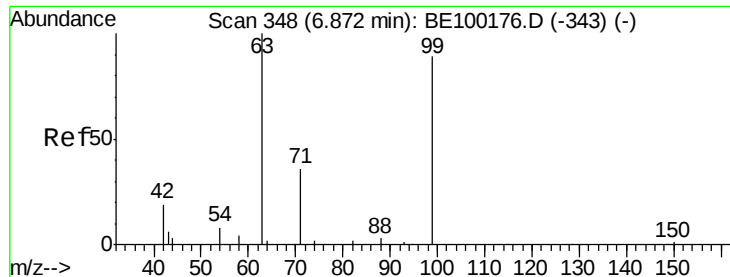
Abundance

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





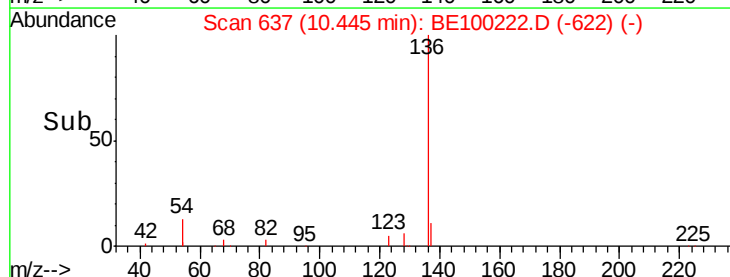
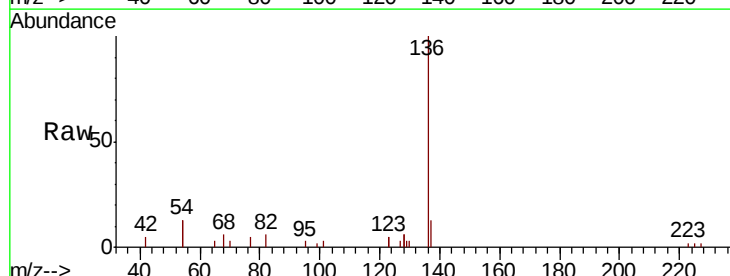
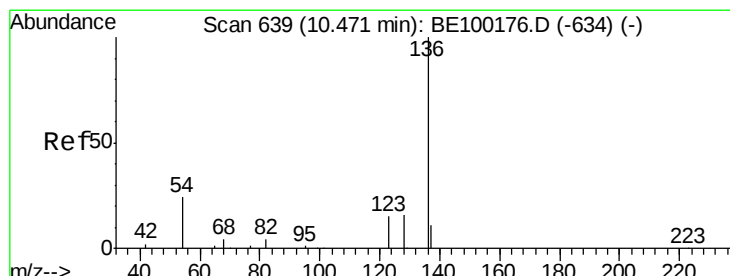
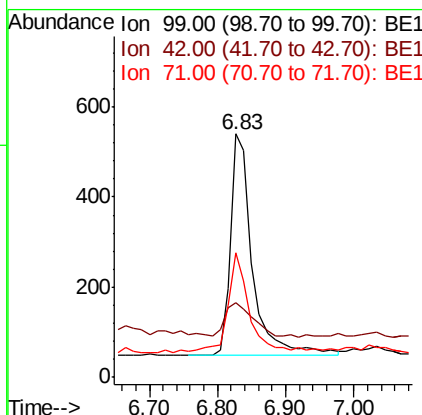
#5
Phenol-d6
Concen: 0.358 ng
RT: 6.83 min Scan# 344
Delta R.T. -0.02 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tot Ion	Ratio	Lower	Upper
99	100		
42	18.6	10.4	15.6#
71	42.2	32.4	48.6

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

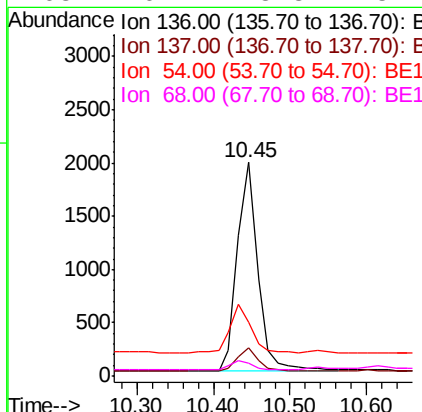
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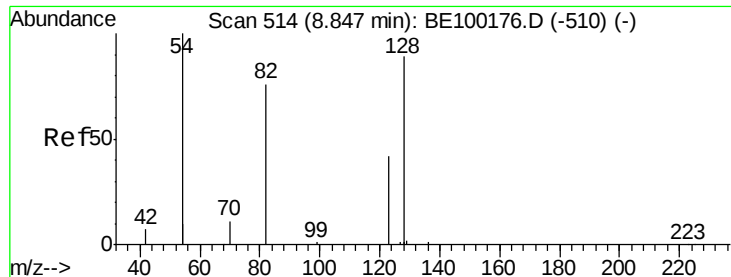
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.45 min Scan# 637
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
136	100		
137	13.4	13.8	20.8#
54	25.3	35.4	53.2#
68	6.2	8.8	13.2#





#8

Nitrobenzene-d5

Concen: 0.311 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.02 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Instrument :

BNA_E

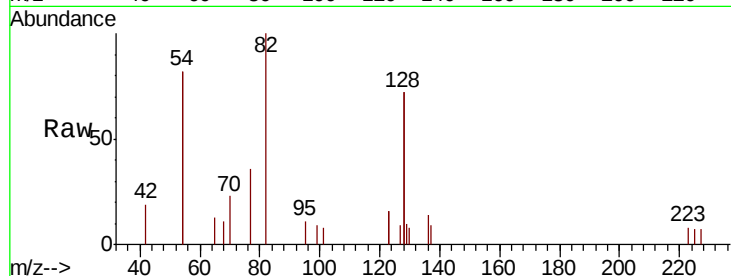
ClientSampleId :

EXT-013-SW162-061319

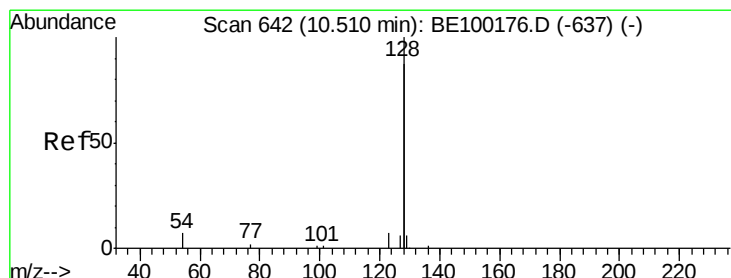
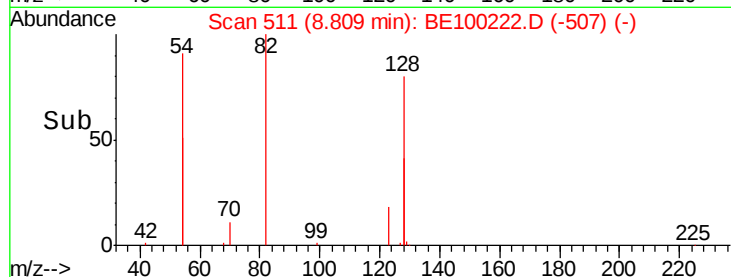
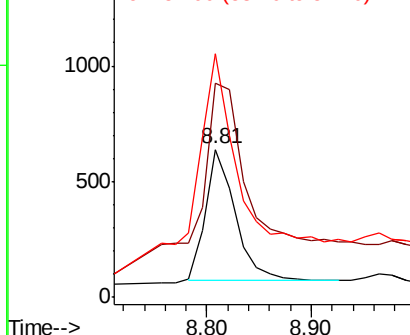
Tot Ion:	82	Resp:	1136
Ion	Ratio	Lower	Upper
82	100		
128	144.9	144.6	217.0
54	164.6	163.0	244.6

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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: 0.180 ng

RT: 10.50 min Scan# 641

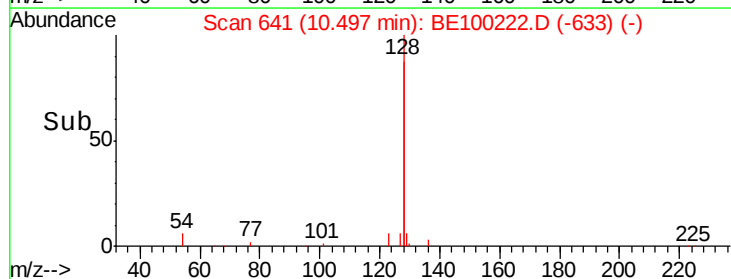
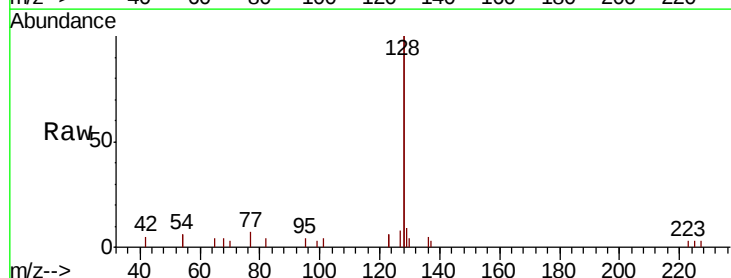
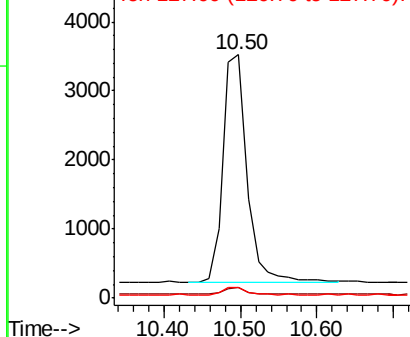
Delta R.T. 0.00 min

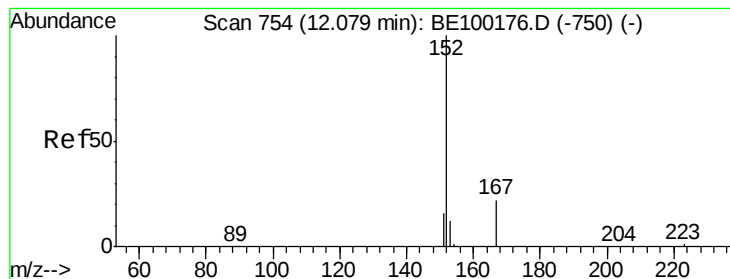
Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Tgt Ion:	128	Resp:	7219
Ion	Ratio	Lower	Upper
128	100		
129	4.4	3.6	5.4
127	4.2	3.8	5.8

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





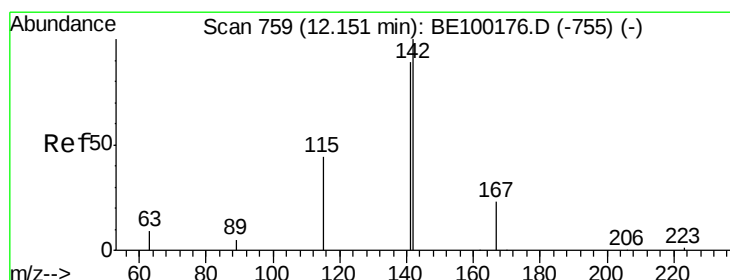
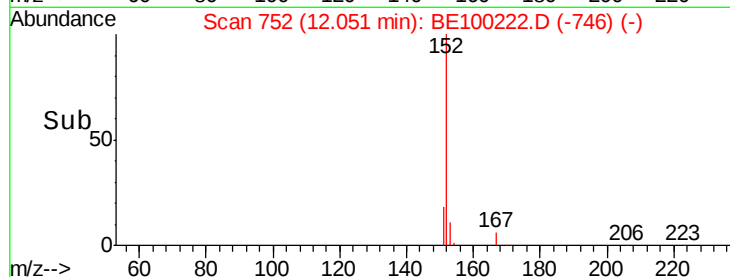
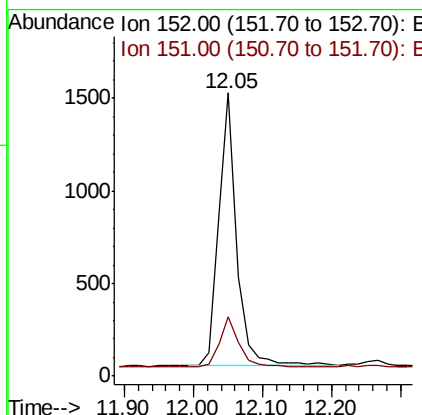
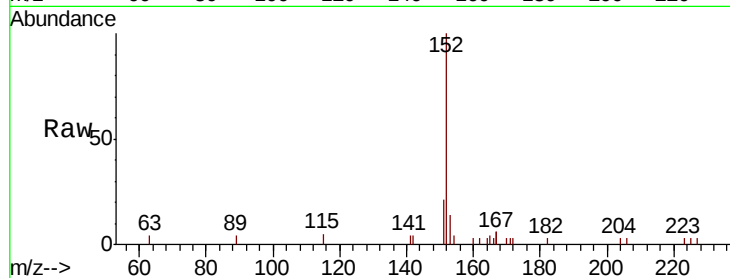
#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 12.05 min Scan# 752
Delta R.T. -0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5

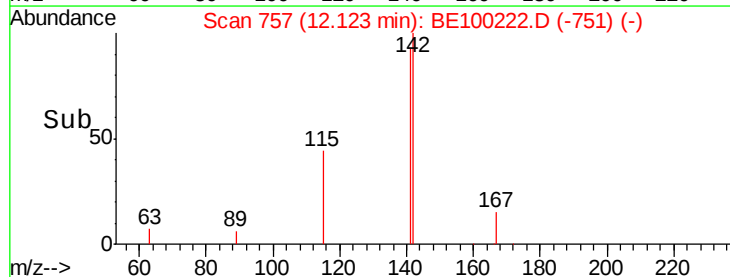
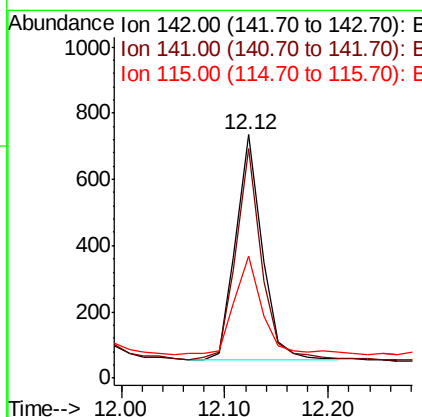
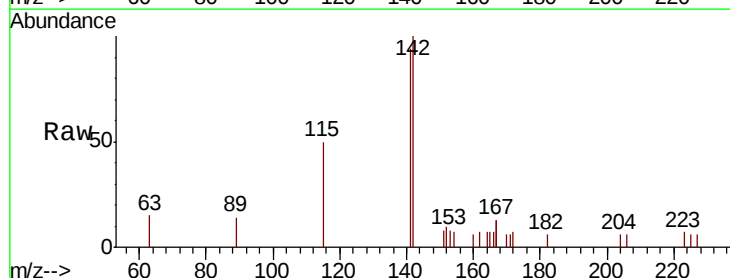
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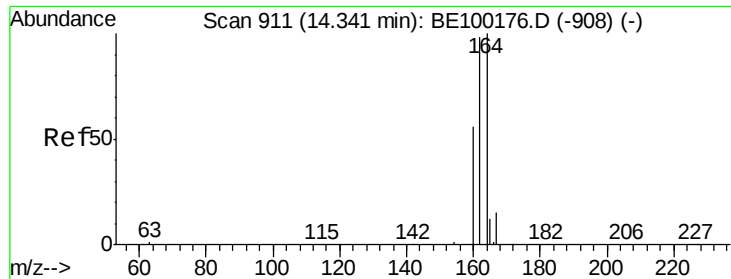
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#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.12 min Scan# 757
Delta R.T. -0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.3	71.8	107.8
115	49.9	40.4	60.6





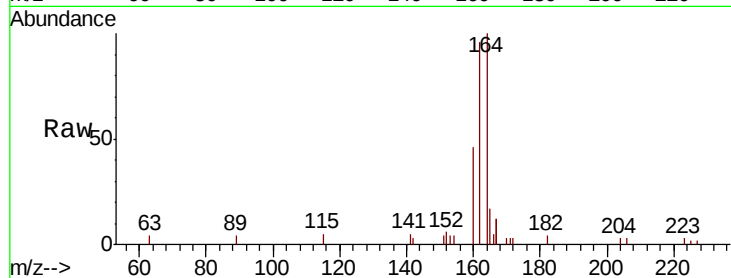
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.33 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: BE100222.D
 Acq: 28 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW162-061319

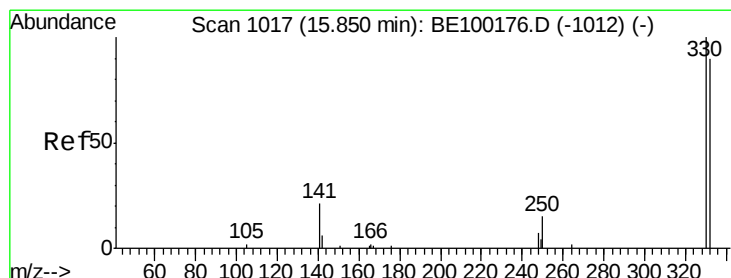
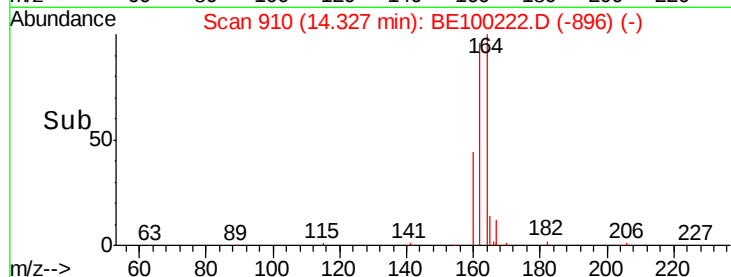
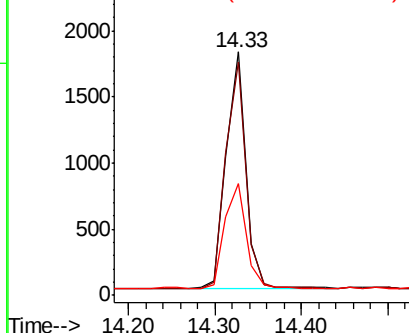
Tot Ion	Ratio	Lower	Upper
164	100		
162	96.0	78.6	118.0
160	45.8	46.9	70.3#

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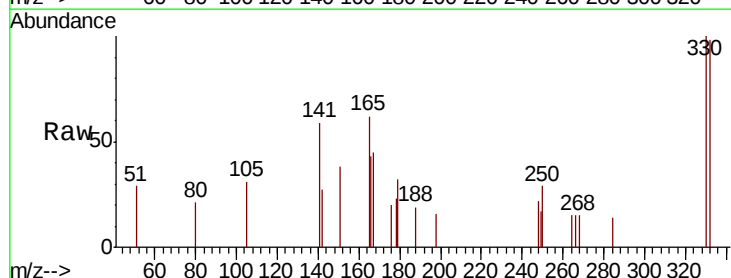


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

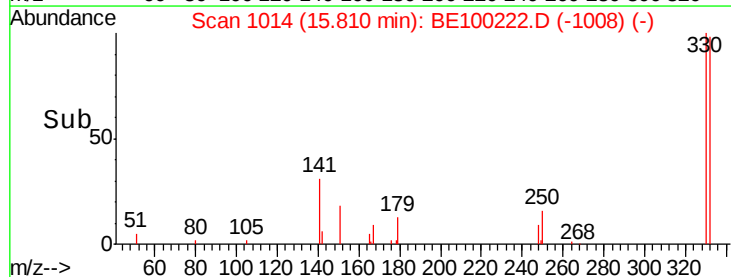
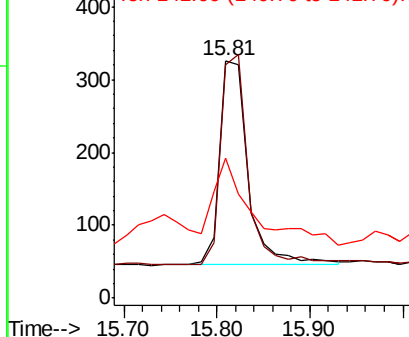


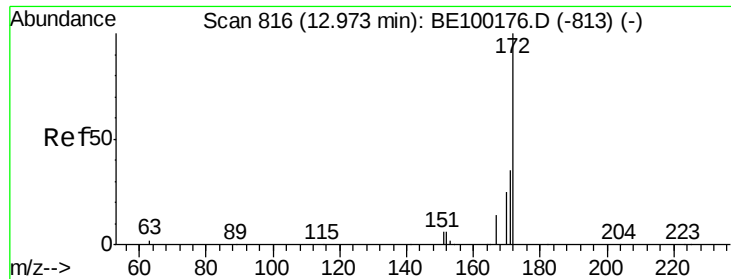
#14
 2,4,6-Tribromophenol
 Concen: 0.364 ng
 RT: 15.81 min Scan# 1014
 Delta R.T. -0.03 min
 Lab File: BE100222.D
 Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.7	116.5
141	57.6	18.9	28.3#



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





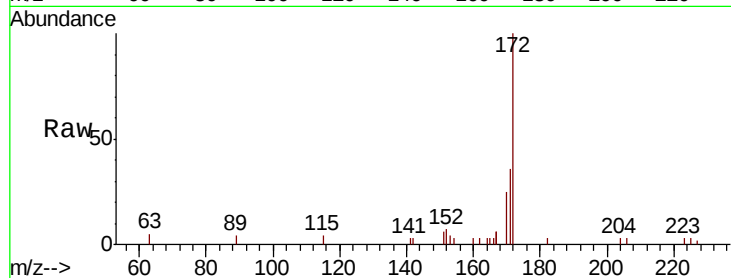
#15
2-Fluorobiphenyl
Concen: 0.257 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	31.0	46.4
170	25.2	23.9	35.9

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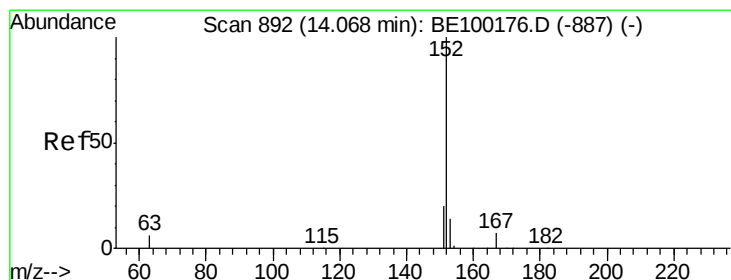
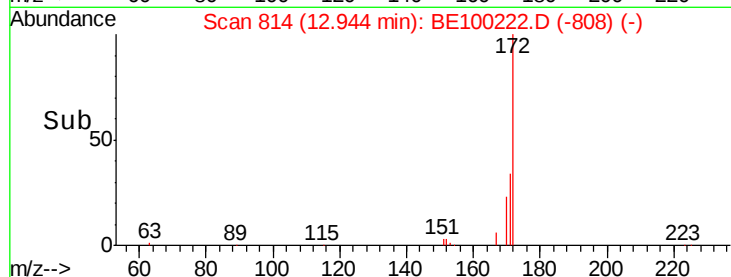
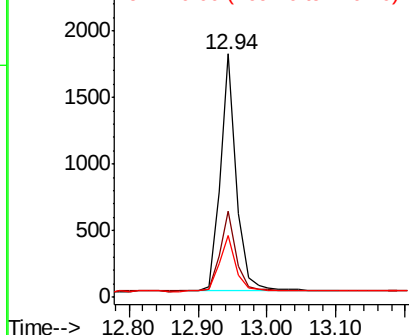


Abundance

Ion 172.00 (171.70 to 172.70): E

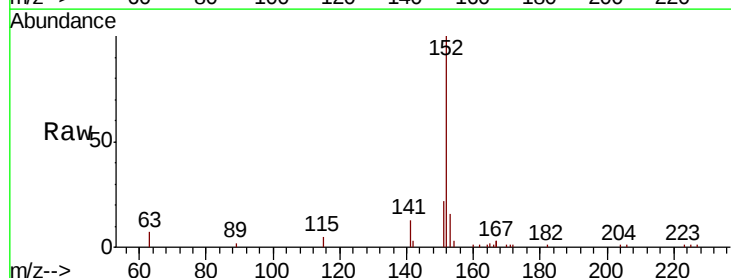
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.559 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.4	23.0
153	14.1	10.8	16.2

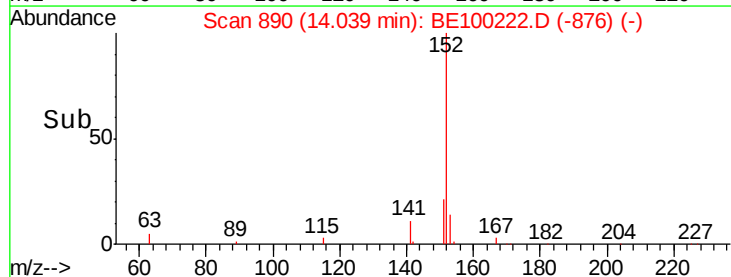
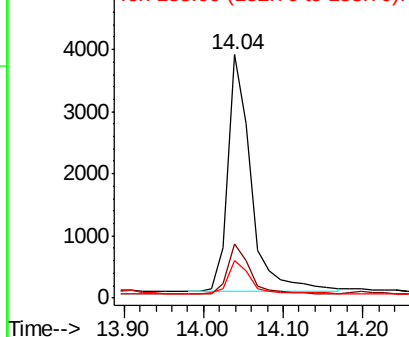


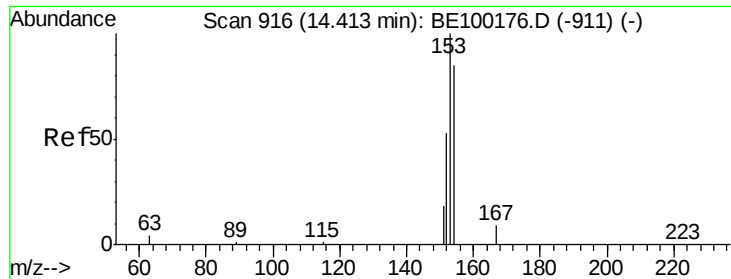
Abundance

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





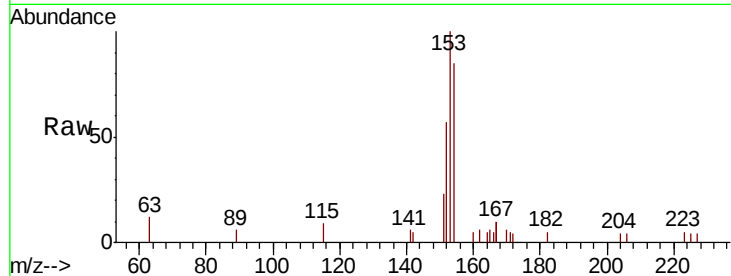
#17
Acenaphthene
Concen: 0.176 ng
RT: 14.38 min Scan# 914
Delta R.T. -0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	120.9	95.3	142.9
152	63.7	52.9	79.3

Manual Integrations
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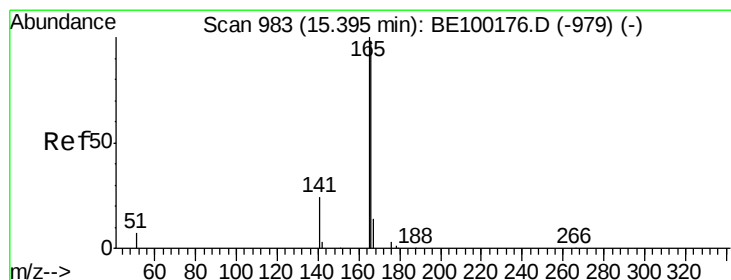
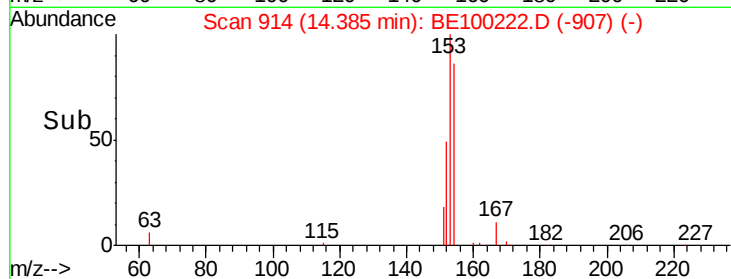
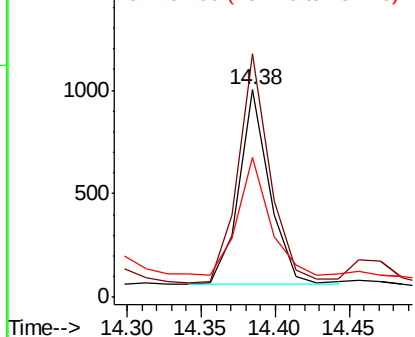


Abundance

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: 0.331 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

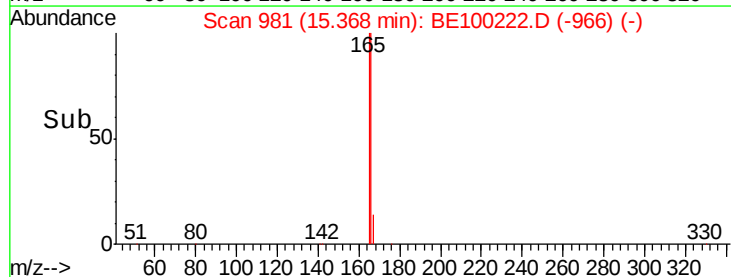
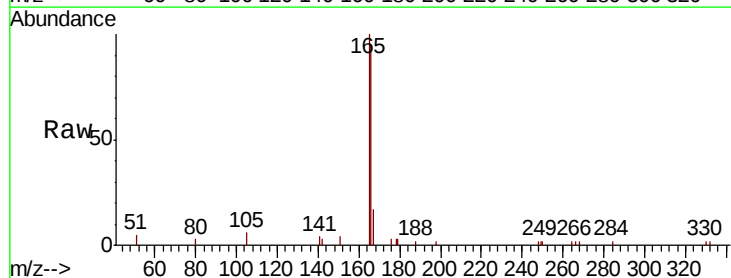
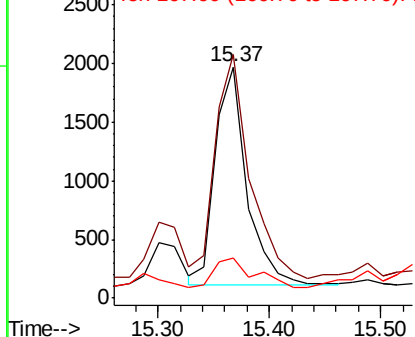
Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.3	81.0	121.4
167	17.6	11.4	17.0#

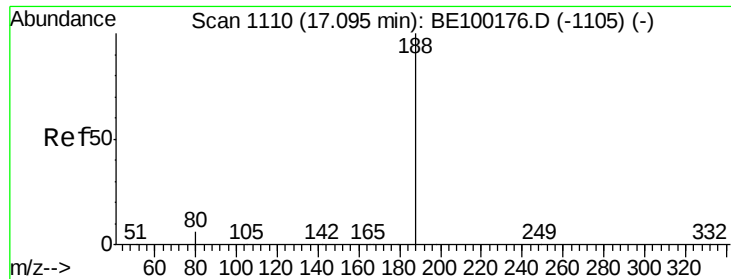
Abundance

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





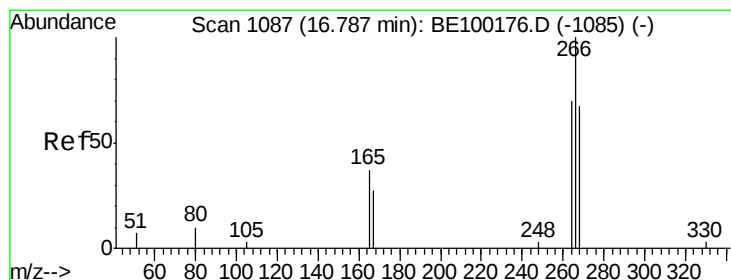
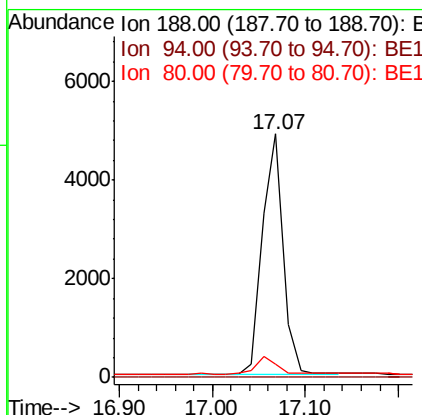
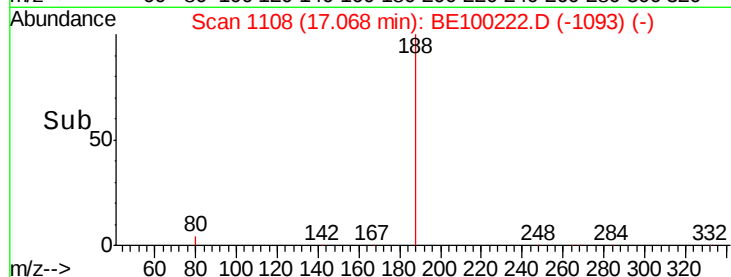
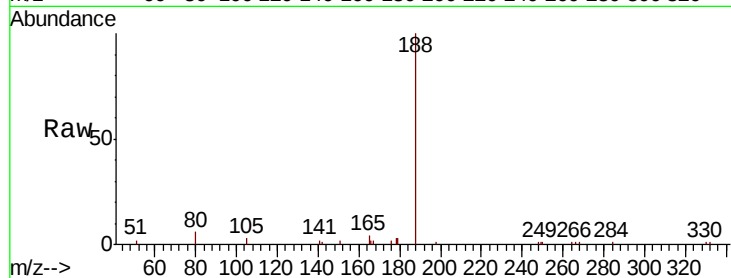
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.07 min Scan# 1108
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	6.4	9.6#

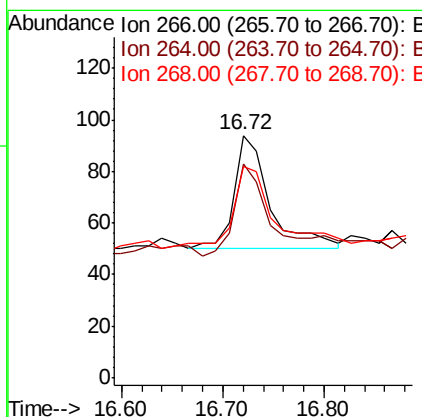
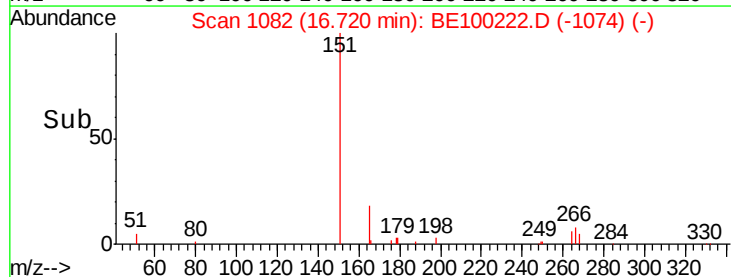
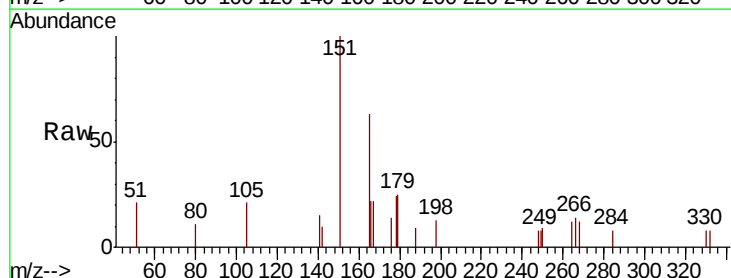
Manual Integrations
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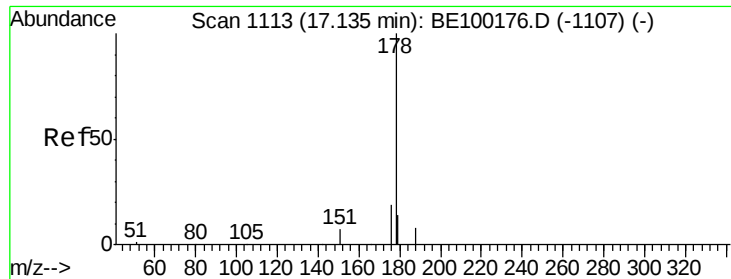
mohammad
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#22
Pentachlorophenol
Concen: 0.333 ng
RT: 16.72 min Scan# 1082
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
266	100		
264	88.3	67.7	101.5
268	87.2	69.8	104.6





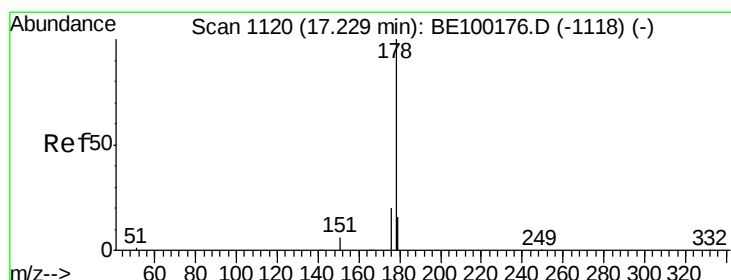
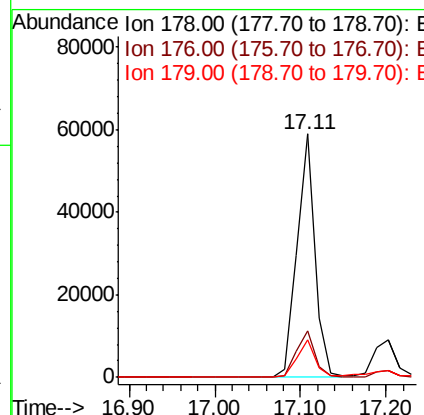
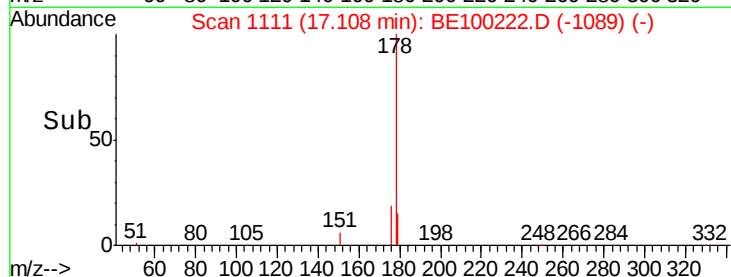
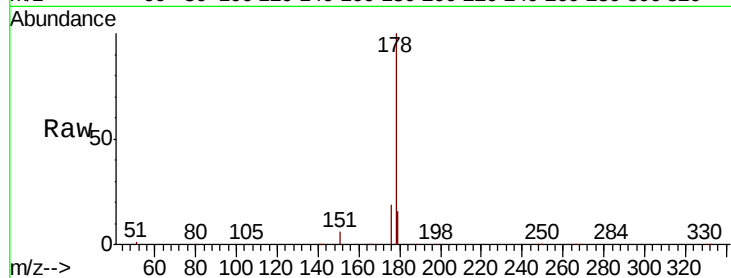
#23
Phenanthrene
Concen: 4.688 ng
RT: 17.11 min Scan# 1111
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.5	12.2	18.2

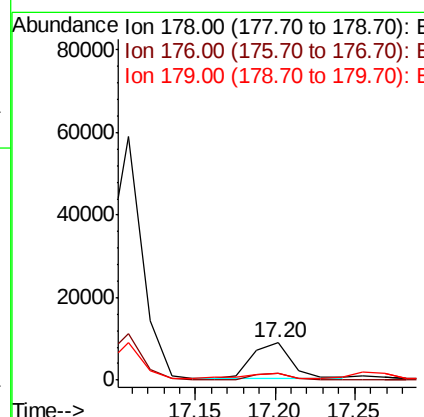
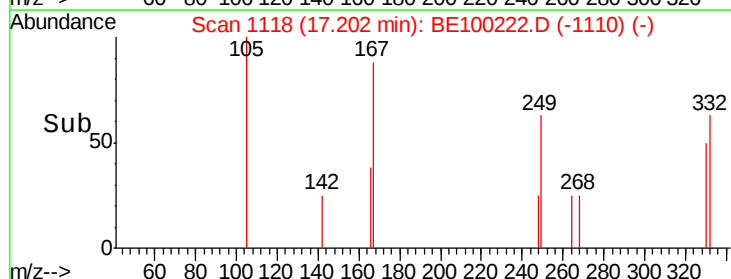
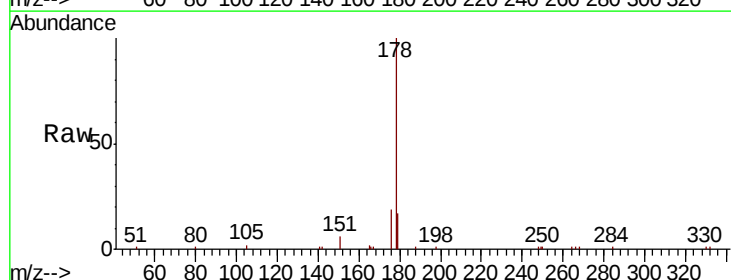
Manual Integrations
APPROVED

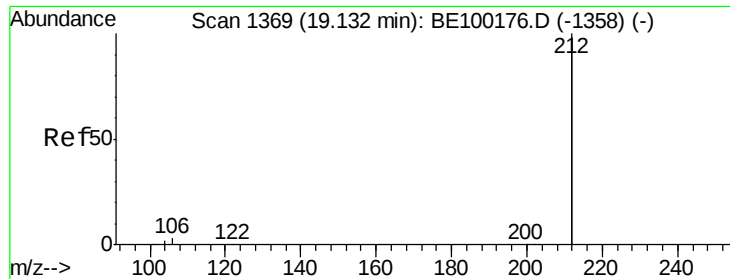
mohammad
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#24
Anthracene
Concen: 0.940 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.7	23.5
179	17.2	12.9	19.3





#25

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.10 min Scan# 1364

Delta R.T. -0.00 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Instrument :

BNA_E

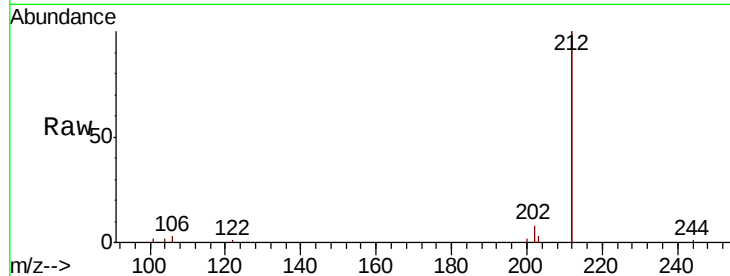
ClientSampleId :

EXT-013-SW162-061319

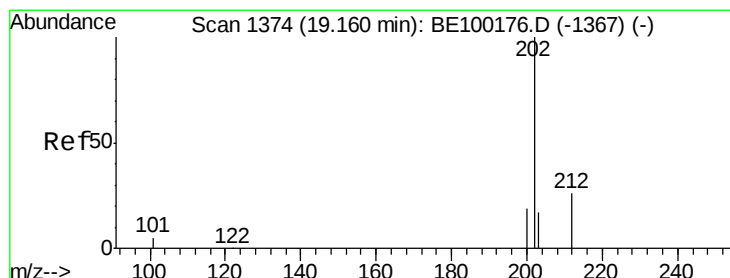
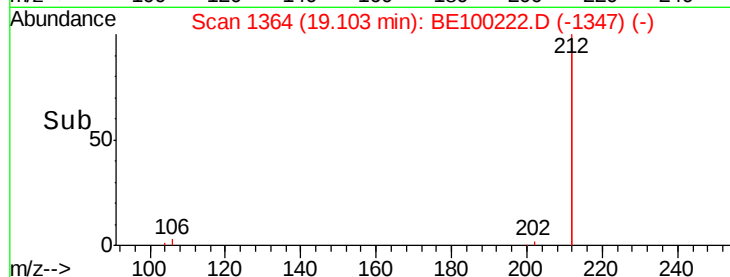
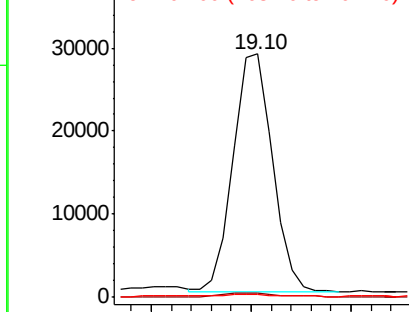
Tot Ion:	212	Resp:	39074
Ion Ratio	Lower	Upper	
212	100		
106	1.8	1.3	1.9
104	0.9	0.7	1.1

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Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 9.271 ng

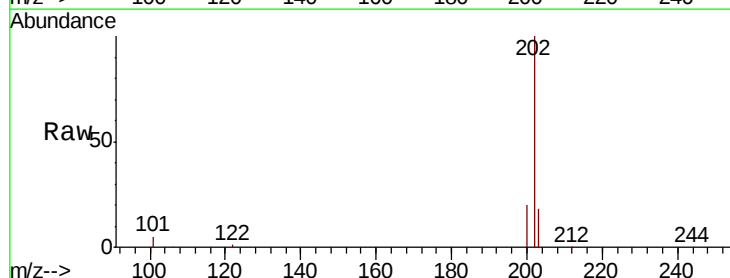
RT: 19.13 min Scan# 1369

Delta R.T. -0.00 min

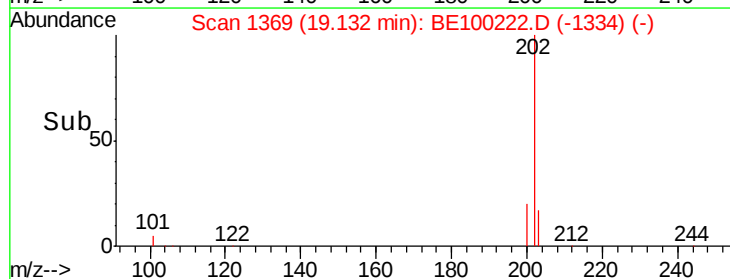
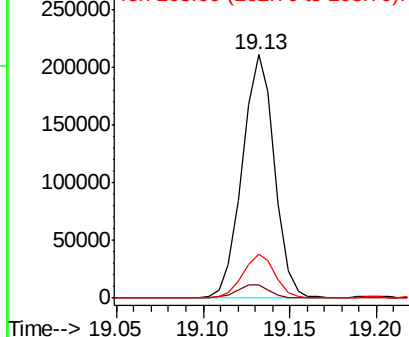
Lab File: BE100222.D

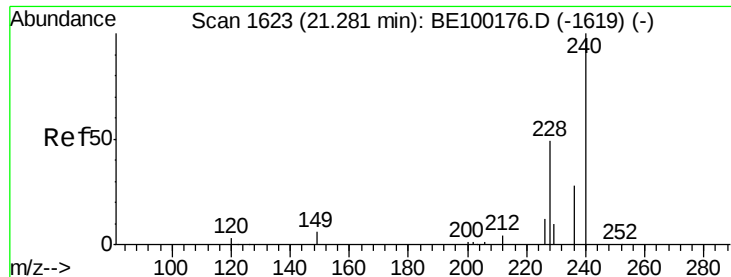
Acq: 28 Jun 2019 1:41

Tgt Ion:	202	Resp:	273686
Ion Ratio	Lower	Upper	
202	100		
101	5.5	4.5	6.7
203	17.7	13.7	20.5



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: 21.24 min Scan# 1620

Delta R.T. -0.00 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Instrument :

BNA_E

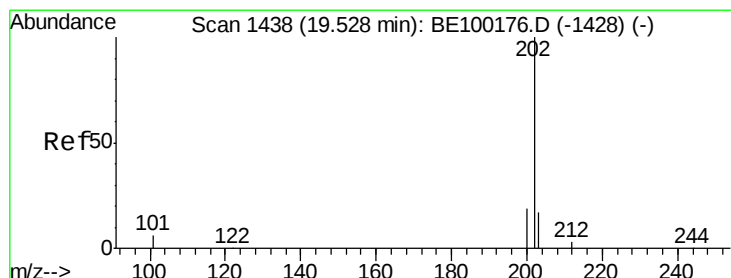
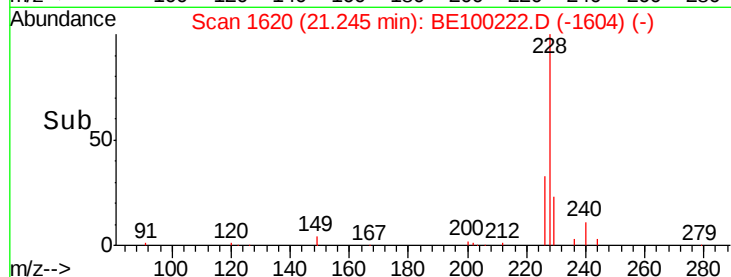
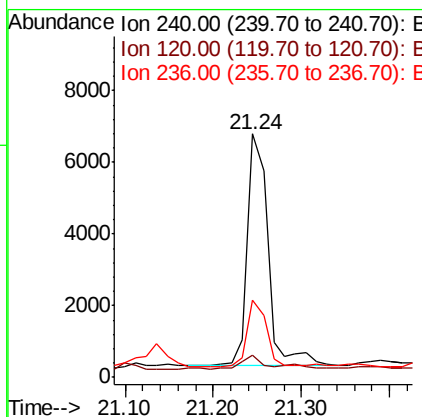
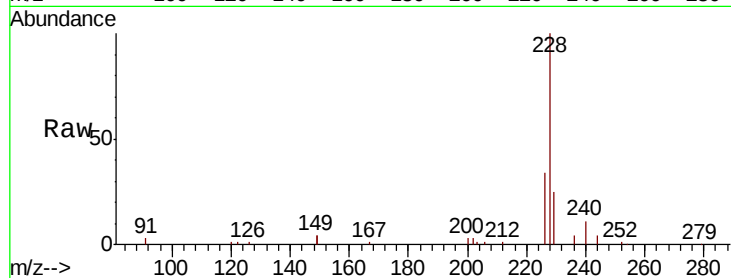
ClientSampleId :

EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.9	4.1	6.1#
236	31.6	23.0	34.6

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#28

Pyrene

Concen: 10.013 ng

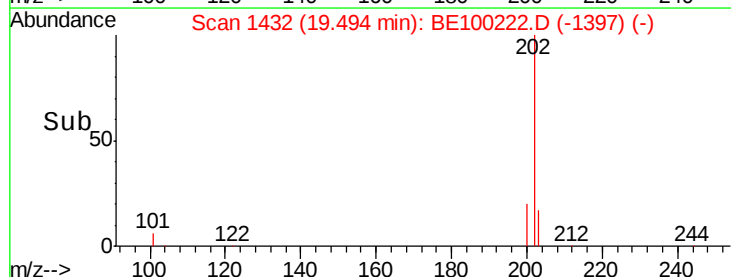
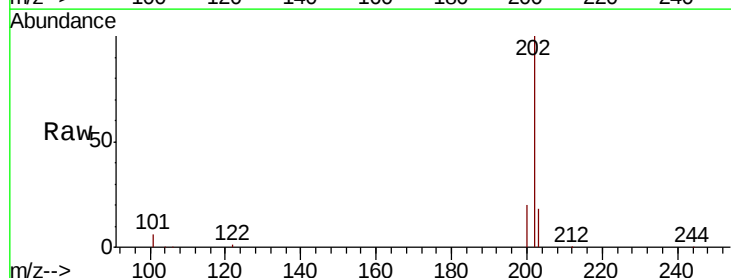
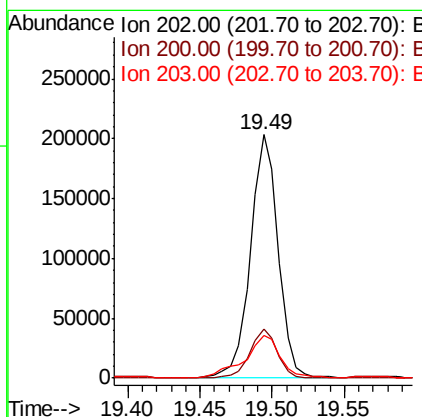
RT: 19.49 min Scan# 1432

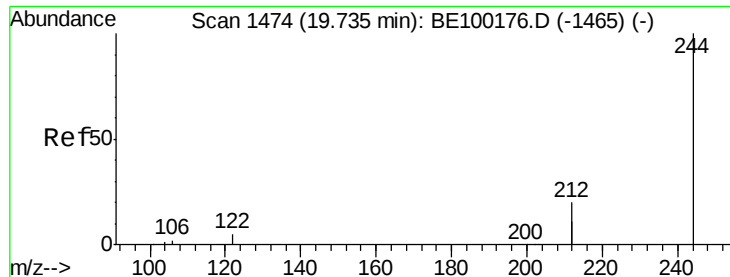
Delta R.T. -0.00 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.5	23.3
203	22.0	13.9	20.9#





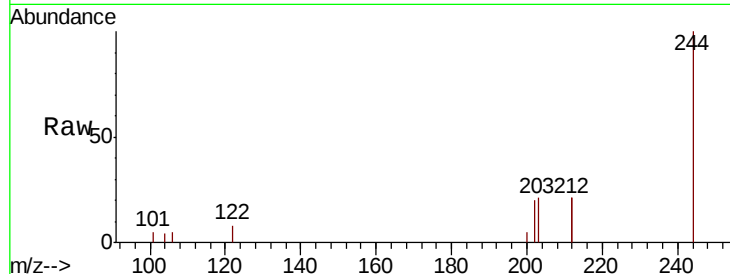
#29
 Terphenyl-d14
 Concen: 0.218 ng
 RT: 19.70 min Scan# 1468
 Delta R.T. -0.01 min
 Lab File: BE100222.D
 Acq: 28 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
244	100		
212	41.6	30.7	46.1
122	8.3	5.8	8.6

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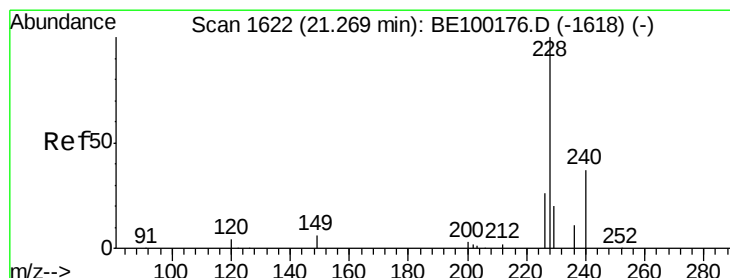
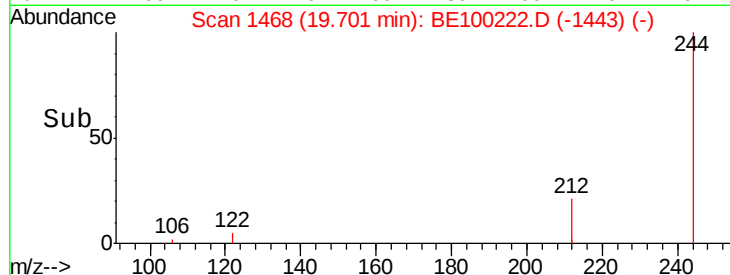
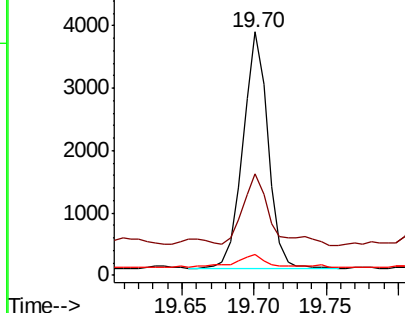


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30
 Benzo(a)anthracene
 Concen: 7.412 ng
 RT: 21.23 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BE100222.D
 Acq: 28 Jun 2019 1:41

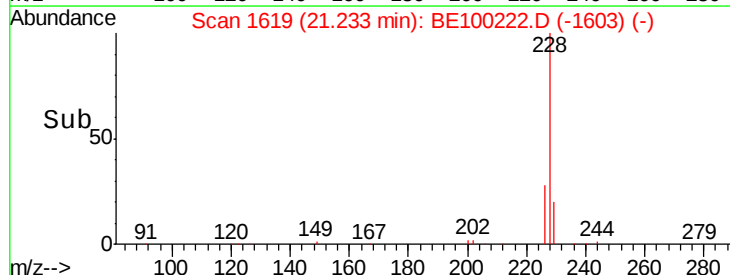
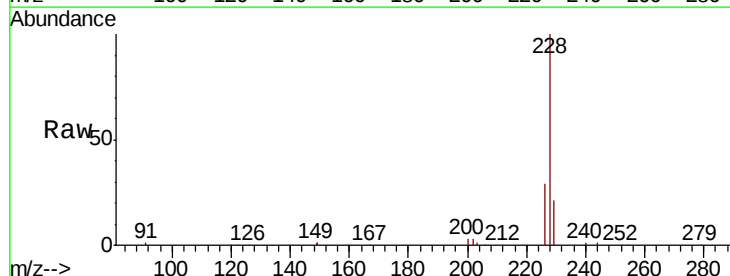
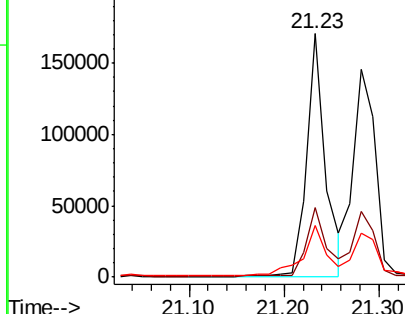
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	21.5	32.3
229	21.0	17.2	25.8

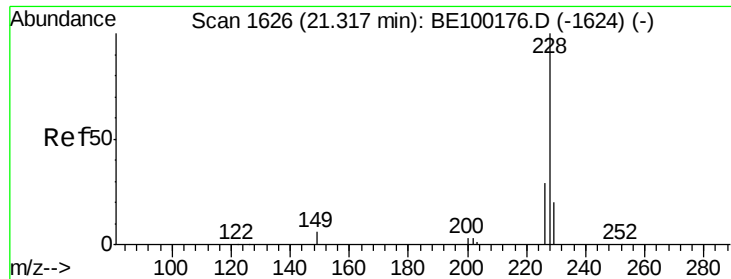
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





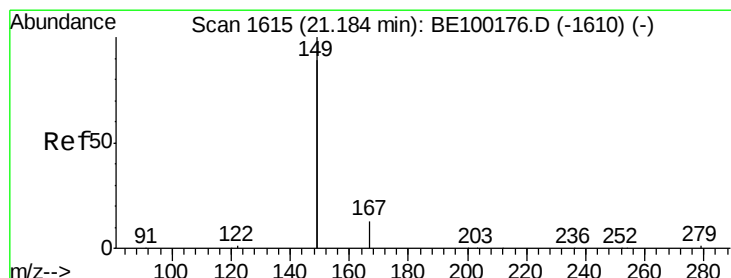
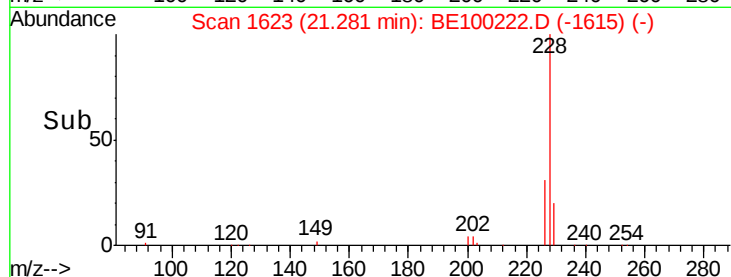
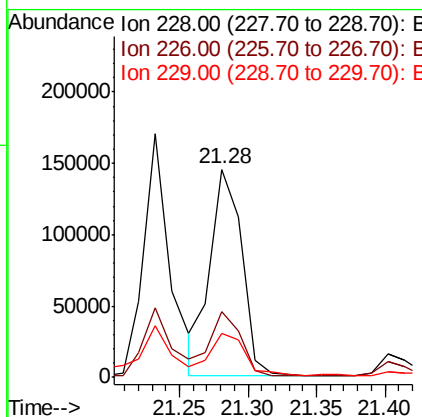
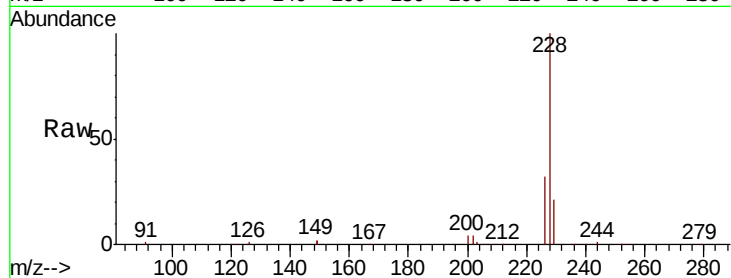
#31
Chrysene
Concen: 6.286 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.8	23.7	35.5
229	21.1	16.5	24.7

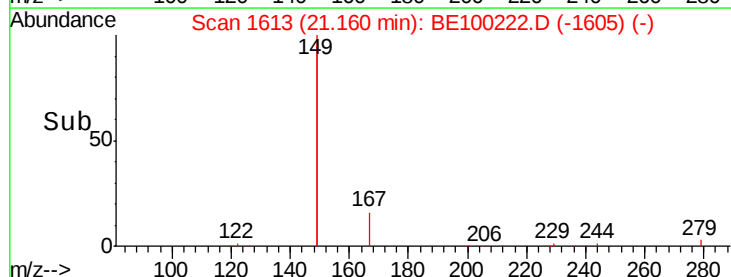
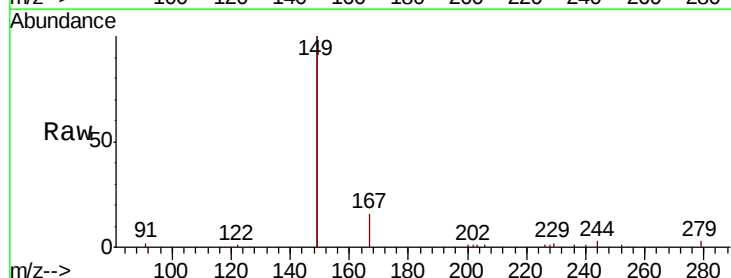
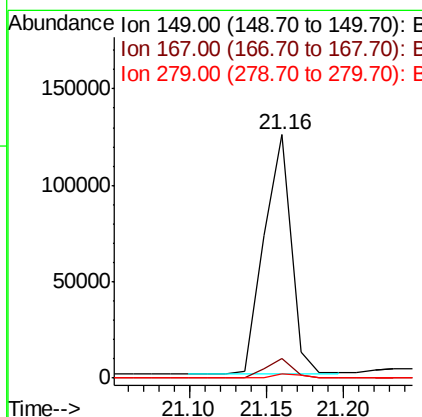
Manual Integrations
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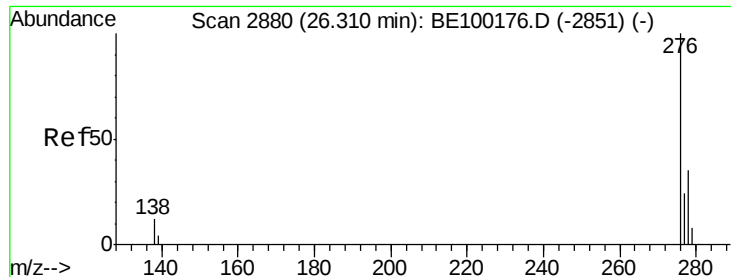
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#32
Bis(2-ethylhexyl)phthalate
Concen: 4.250 ng
RT: 21.16 min Scan# 1613
Delta R.T. -0.00 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
149	100		
167	7.3	5.9	8.9
279	1.5	1.0	1.6





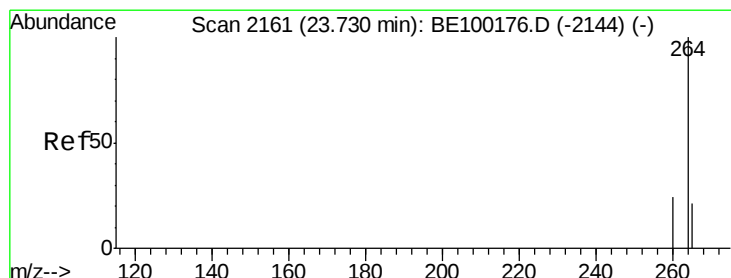
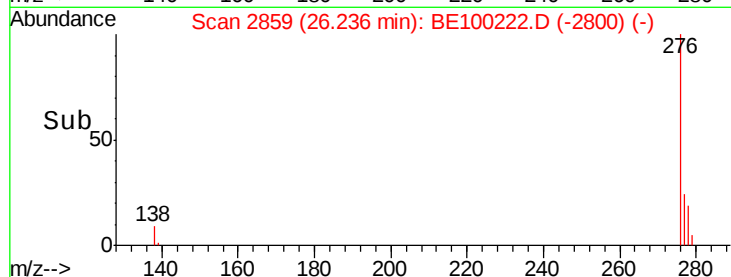
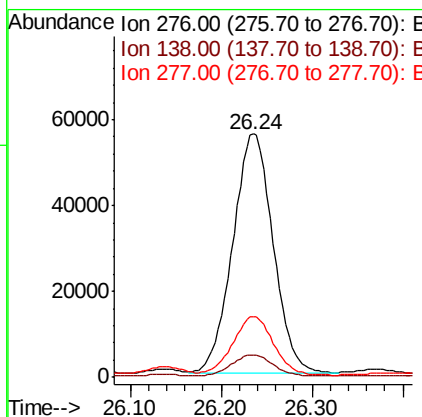
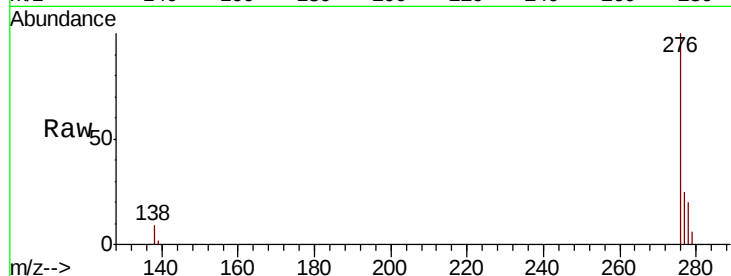
#33
Indeno(1,2,3-cd)pyrene
Concen: 3.279 ng
RT: 26.24 min Scan# 2859
Delta R.T. 0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.1	3.7	5.5#
277	24.7	18.7	28.1

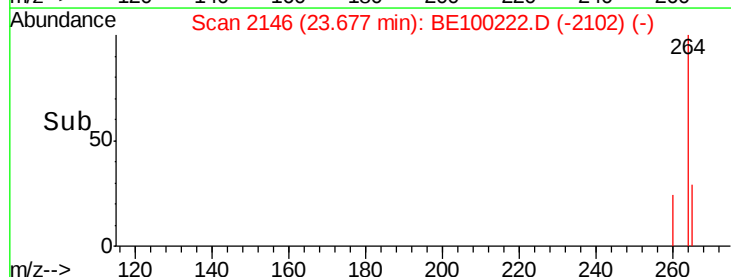
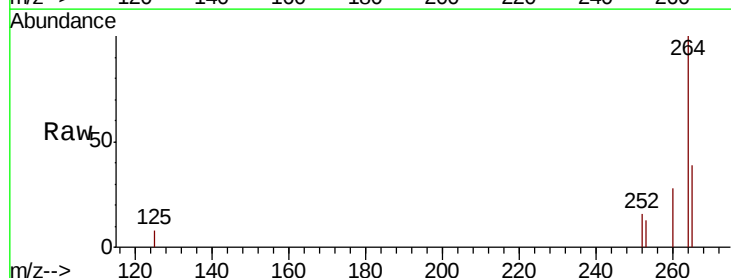
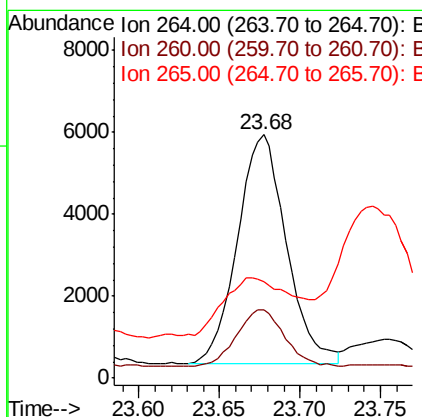
Manual Integrations
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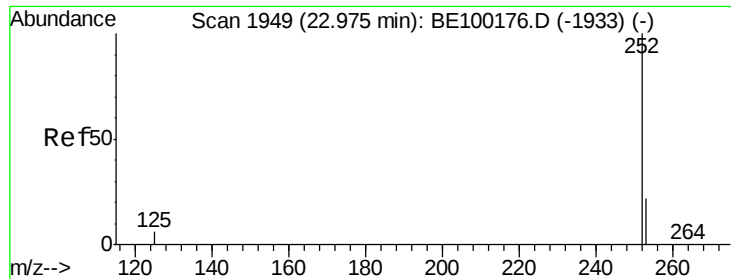
mohammad
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#34
Perylene-d12
Concen: 0.400 ng
RT: 23.68 min Scan# 2146
Delta R.T. 0.01 min
Lab File: BE100222.D
Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.0	20.4	30.6
265	39.5	22.5	33.7#





#35

Benzo(b)fluoranthene

Concen: 9.966 ng

RT: 22.93 min Scan# 1937

Delta R.T. 0.01 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Instrument :

BNA_E

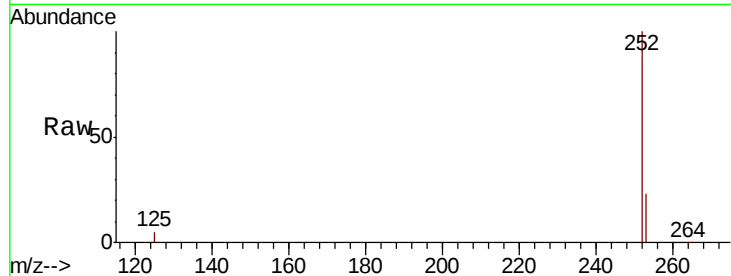
ClientSampleId :

EXT-013-SW162-061319

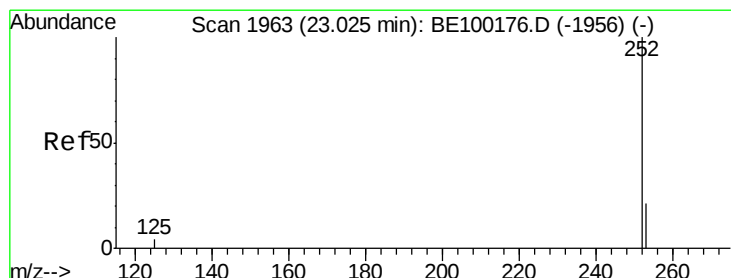
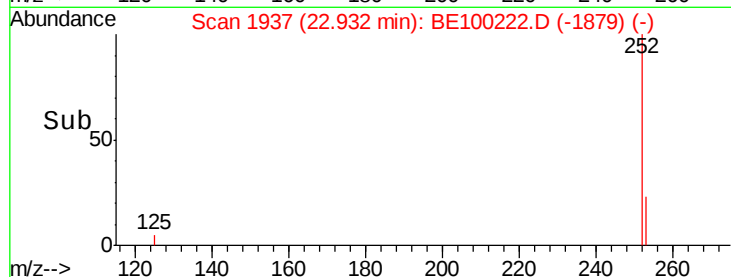
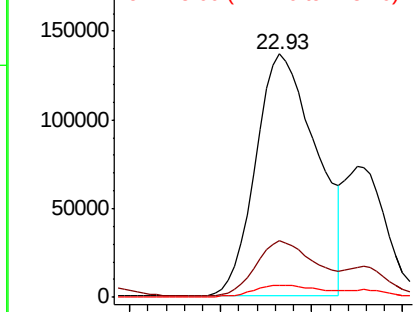
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.0	28.4
125	5.0	6.3	9.5

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 2.813 ng m

RT: 22.98 min Scan# 1949

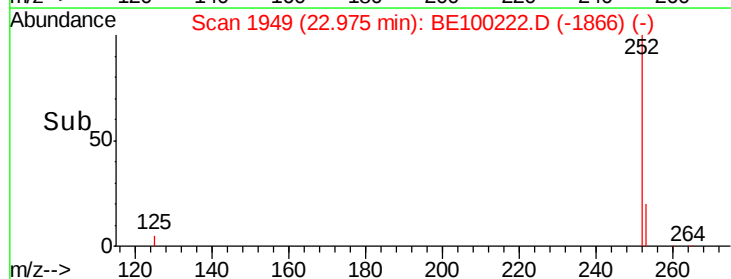
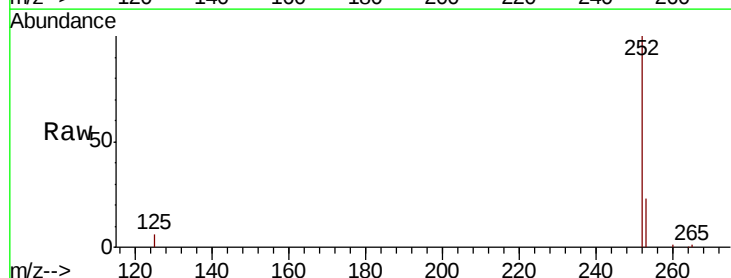
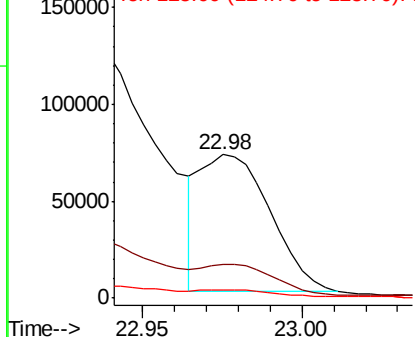
Delta R.T. -0.00 min

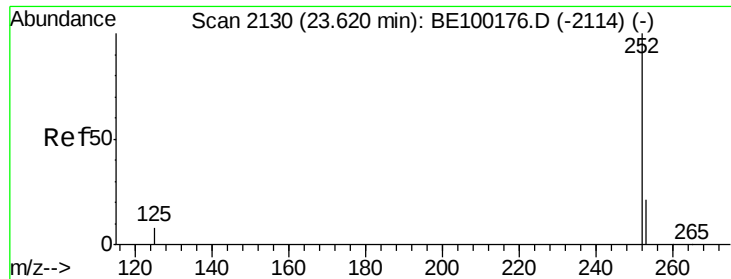
Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	5.6	5.0	7.4

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 6.774 ng

RT: 23.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Instrument :

BNA_E

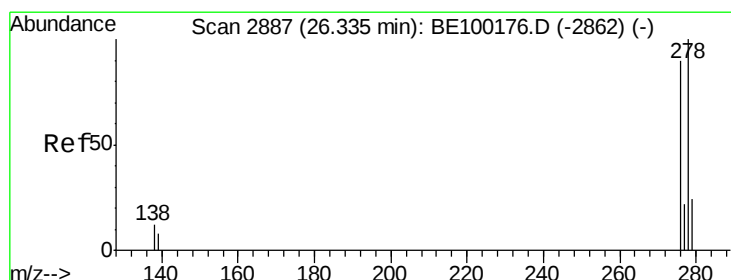
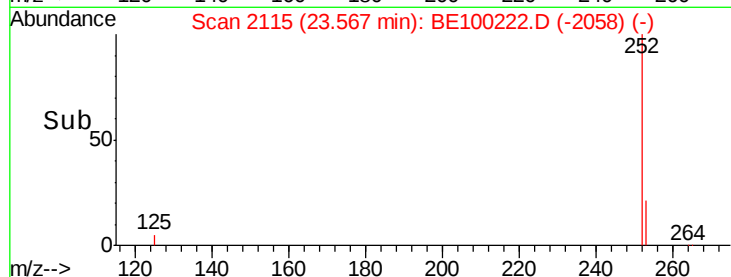
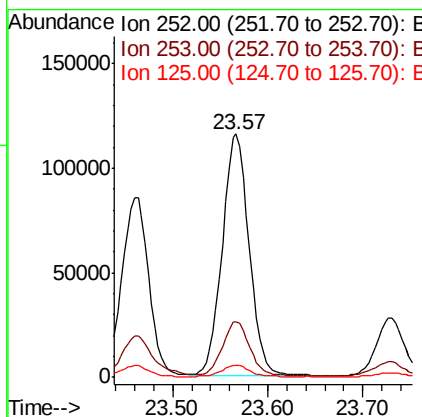
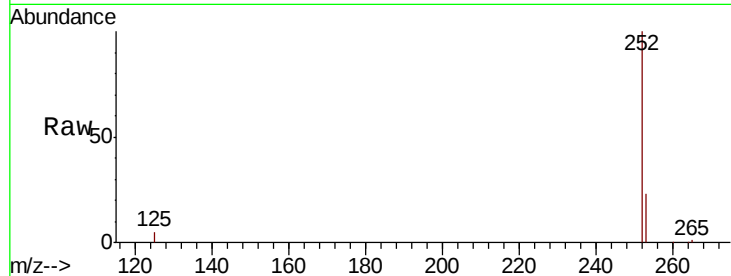
ClientSampleId :

EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	19.2	28.8
125	5.0	8.2	12.2

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#38

Dibenzo(a,h)anthracene

Concen: 1.242 ng

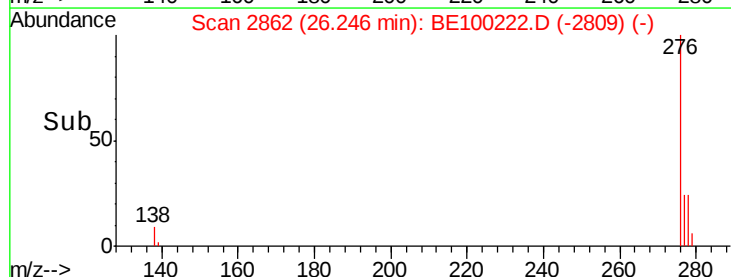
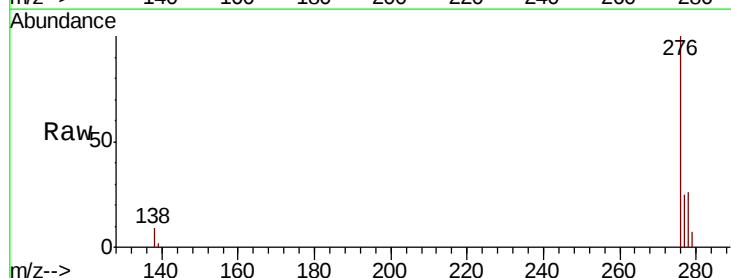
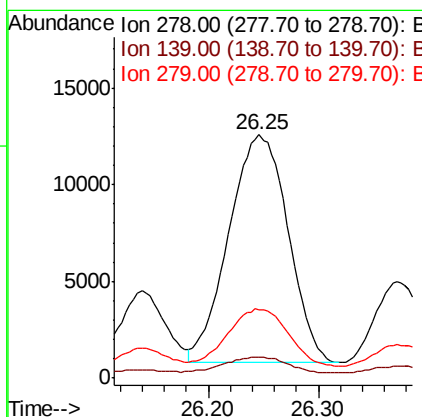
RT: 26.25 min Scan# 2862

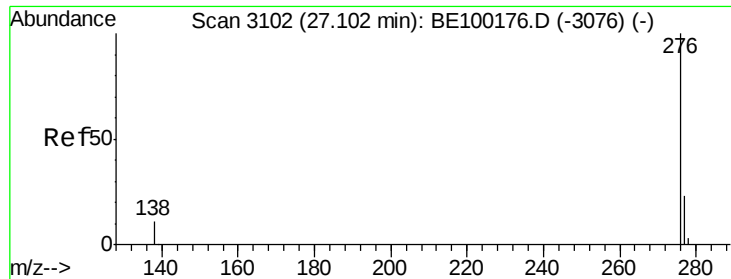
Delta R.T. -0.01 min

Lab File: BE100222.D

Acq: 28 Jun 2019 1:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	8.6	9.0	13.4
279	28.0	21.1	31.7





#39
 Benzo(a,h,i)perylene
 Concen: 4.718 ng
 RT: 27.03 min Scan# 3081
 Delta R.T. 0.01 min
 Lab File: BE100222.D
 Acq: 28 Jun 2019 1:41

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW162-061319

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.6
138	9.5	10.2	15.4

Manual Integrations
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