

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100337.D
 Acq On : 3 Jul 2019 20:16
 Operator : JU/SJ
 Sample : K3558-02 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW086-062519

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:22 AM

Quant Time: Jul 04 01:33:17 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 14:06:53 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	678	0.40	ng	-0.01
7) Naphthalene-d8	10.43	136	2558	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	2217	0.40	ng	0.00
19) Phenanthrene-d10	17.06	188	6545	0.40	ng	0.00
27) Chrysene-d12	21.25	240	10159	0.40	ng	0.00
34) Perylene-d12	23.67	264	11542	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	64	0.04	ng	-0.01
5) Phenol-d6	6.87	99	68	0.03	ng	0.03
8) Nitrobenzene-d5	8.82	82	54	0.02	ng	0.00
11) 2-Methylnaphthalene-d10	12.04	152	160	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	59	0.04	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	271	0.03	ng	-0.01
25) Fluoranthene-d10	19.09	212	3371	0.04	ng	0.00
29) Terphenyl-d14	19.69	244	2145	0.10	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.48	128	11102	0.394	ng	99
12) 2-Methylnaphthalene	12.11	142	2129	0.430	ng	98
16) Acenaphthylene	14.02	152	34708	3.262	ng	99
17) Acenaphthene	14.37	154	2653	0.440	ng	96
18) Fluorene	15.35	166	9591	1.076	ng	# 72
23) Phenanthrene	17.10	178	238458	15.032	ng	99
24) Anthracene	17.19	178	28872	2.021	ng	98
26) Fluoranthene	19.13	202	417693	16.531	ng	97
28) Pyrene	19.49	202	680963	25.318	ng	96
30) Benzo(a)anthracene	21.22	228	342016	10.239	ng	95
31) Chrysene	21.28	228	427135	12.734	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	5072	0.050	ng	# 86
33) Indeno(1,2,3-cd)pyrene	26.22	276	170065	3.833	ng	# 97
35) Benzo(b)fluoranthene	22.93	252	308749m	9.866	ng	
36) Benzo(k)fluoranthene	22.96	252	106984m	3.063	ng	
37) Benzo(a)pyrene	23.56	252	265291	8.459	ng	# 92
38) Dibenzo(a,h)anthracene	26.23	278	51096	1.560	ng	# 89
39) Benzo(a,h,i)perylene	27.01	276	202507	6.018	ng	98

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

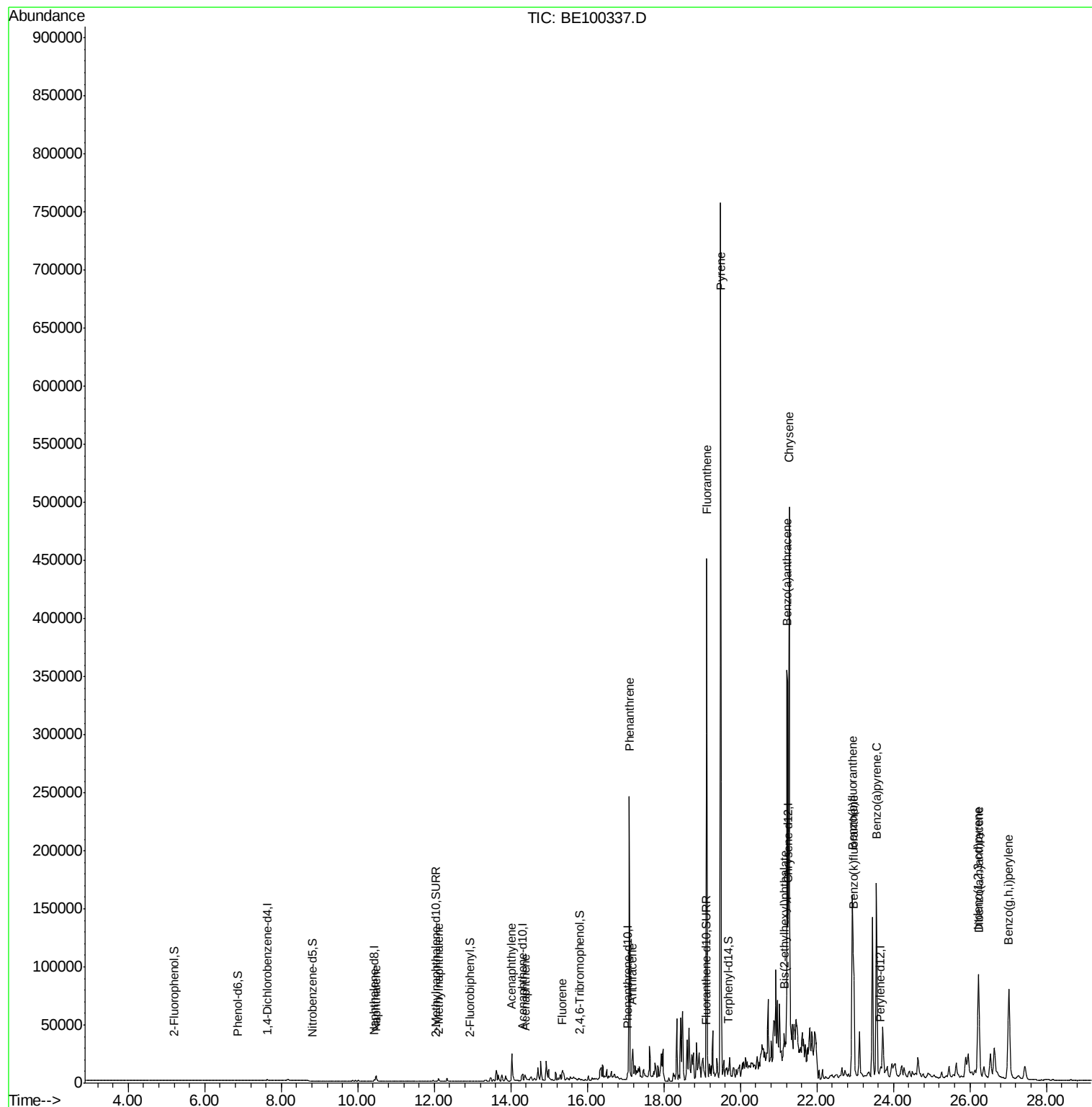
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100337.D
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Sample : K3558-02 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

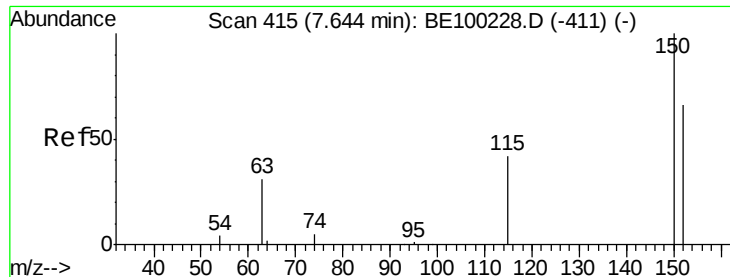
Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

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7/5/2019 8:54:22 AM

Quant Time: Jul 04 01:33:17 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
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#1

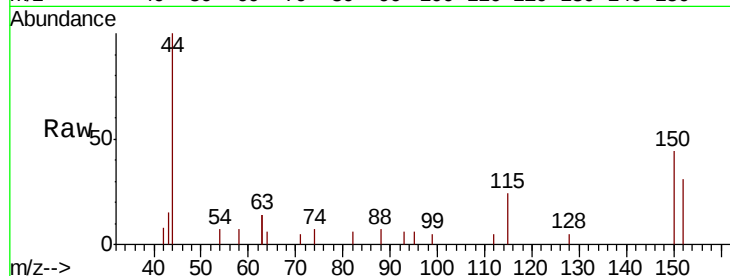
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

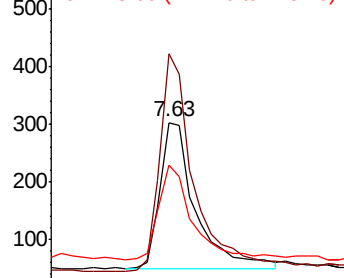
Tot Ion	Ratio	Lower	Upper
152	100		
150	139.1	114.5	171.7
115	75.7	57.1	85.7

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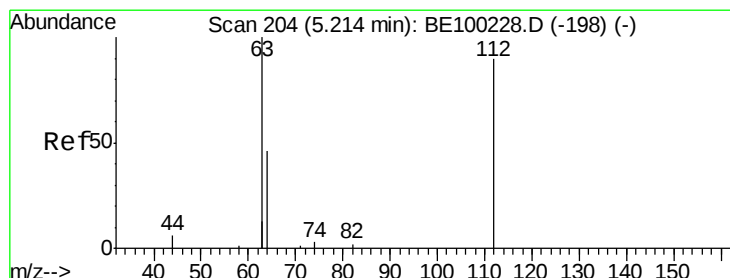
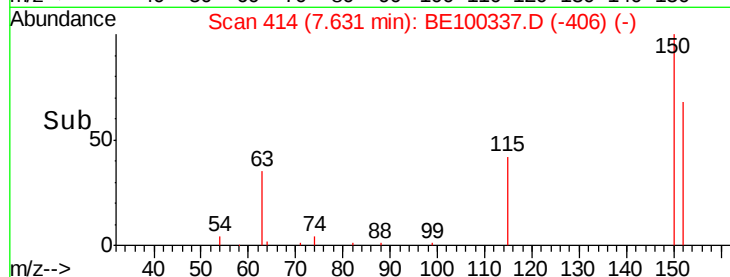
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



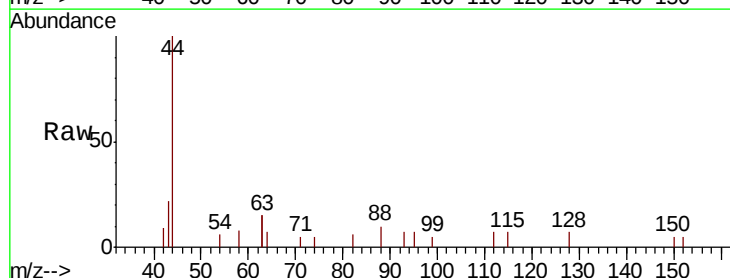
Time-->



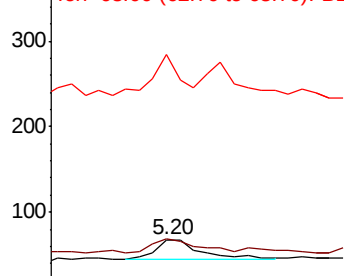
#4

2-Fluorophenol
Concen: 0.037 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

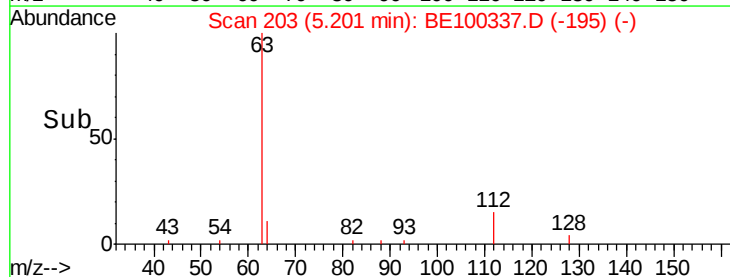
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	39.4	59.0#
63	118.8	104.5	156.7

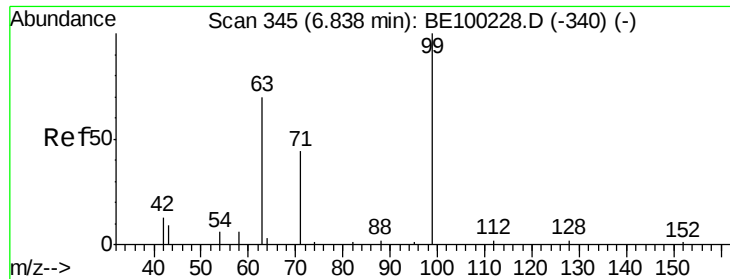


Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1



Time-->





#5

Phenol-d6

Concen: 0.030 ng

RT: 6.87 min Scan# 348

Delta R.T. 0.03 min

Lab File: BE100337.D

Acq: 3 Jul 2019 20:16

Instrument :

BNA_E

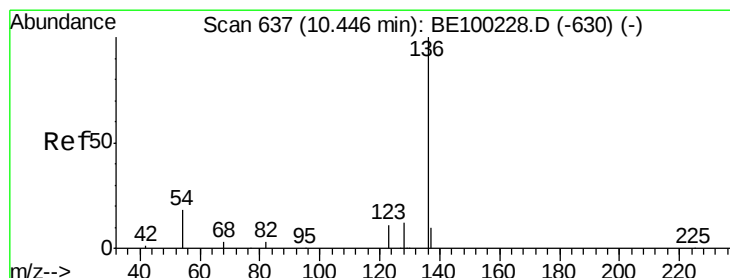
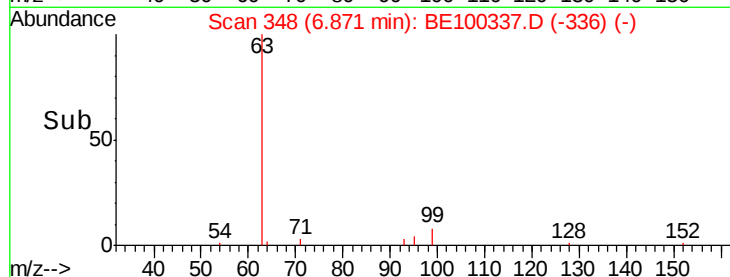
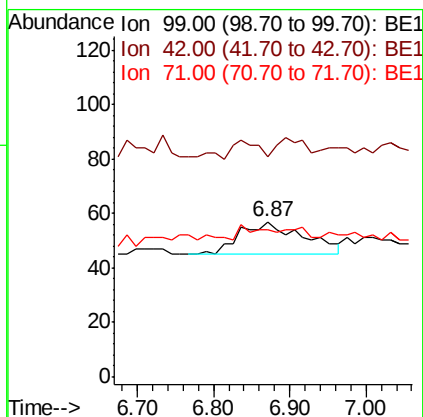
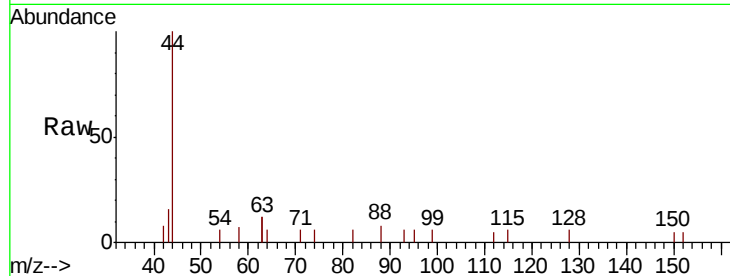
ClientSampleId :

EXT-015-SW086-062519

Tot Ion:	99	Resp:	68
Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.2	16.8#
71	0.0	37.2	55.8#

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#7

Naphthalene-d8

Concen: 0.400 ng

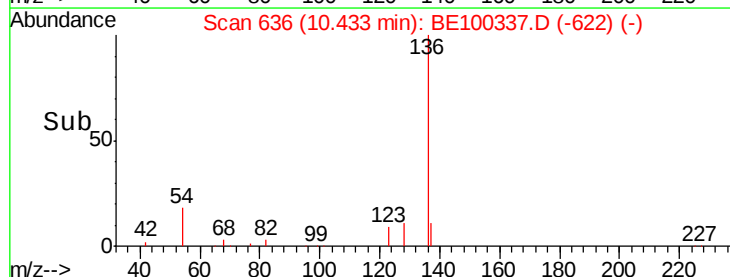
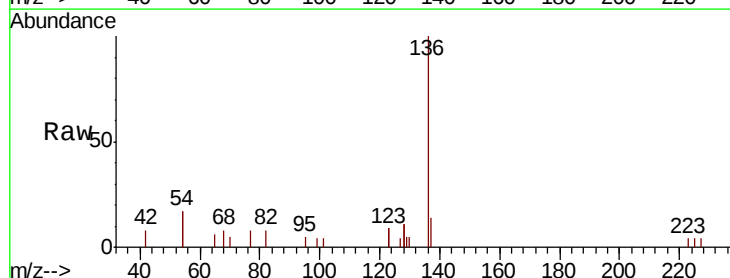
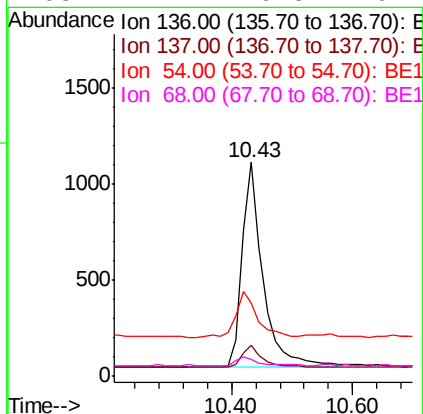
RT: 10.43 min Scan# 636

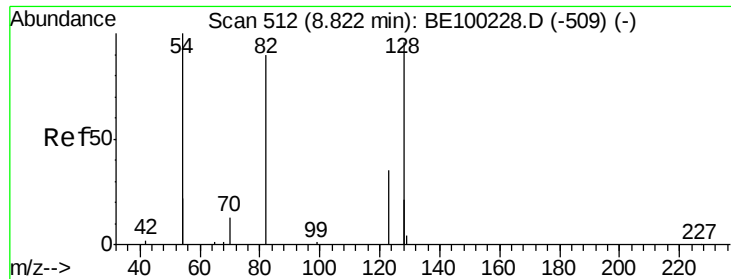
Delta R.T. -0.01 min

Lab File: BE100337.D

Acq: 3 Jul 2019 20:16

Tgt Ion:	136	Resp:	2558
Ion	Ratio	Lower	Upper
136	100		
137	14.4	11.8	17.8
54	34.2	27.7	41.5
68	7.7	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.021 ng

RT: 8.82 min Scan# 512

Delta R.T. 0.00 min

Lab File: BE100337.D

Acq: 3 Jul 2019 20:16

Instrument :

BNA_E

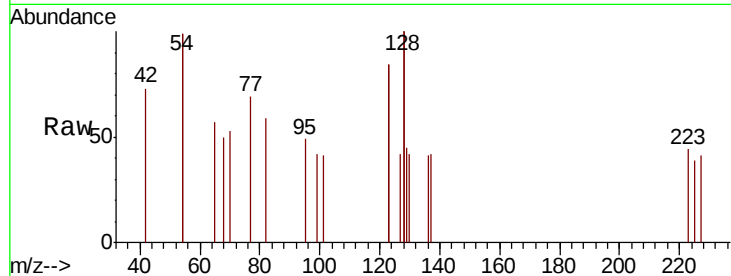
ClientSampleId :

EXT-015-SW086-062519

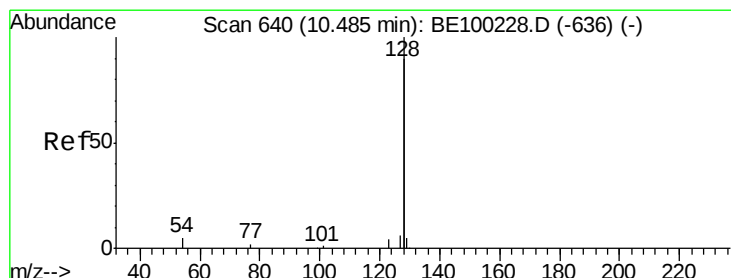
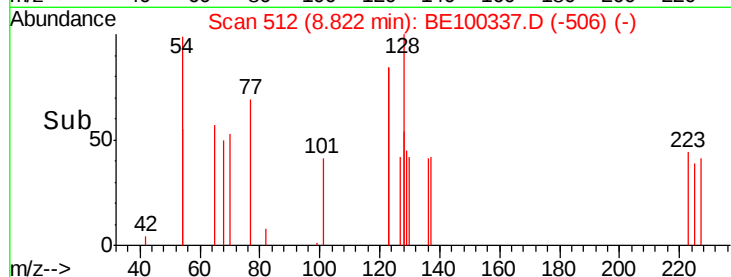
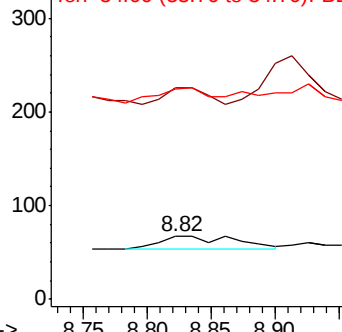
Tot Ion:	82	Resp:	54
Ion	Ratio	Lower	Upper
82	100		
128	337.3	140.9	211.3#
54	334.3	146.2	219.2#

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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: 0.394 ng

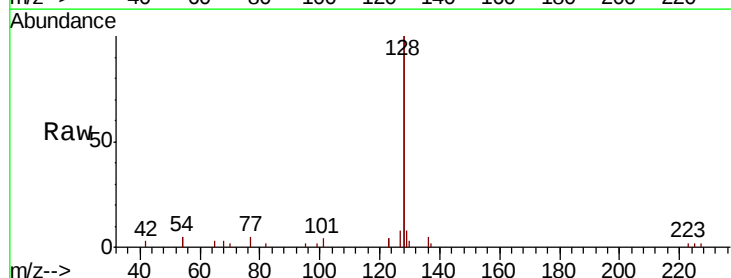
RT: 10.48 min Scan# 640

Delta R.T. 0.00 min

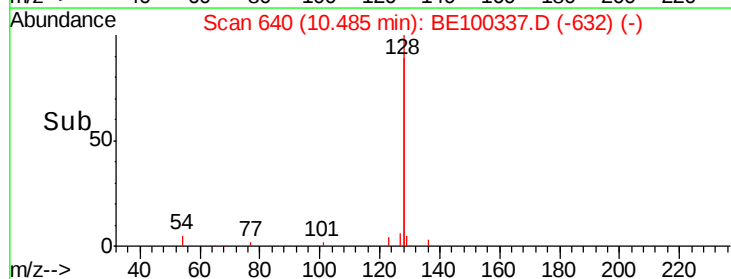
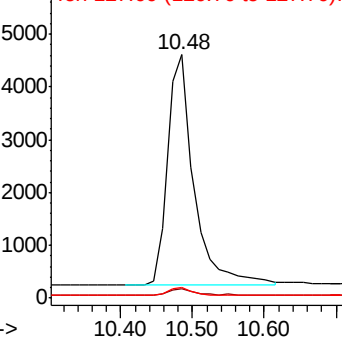
Lab File: BE100337.D

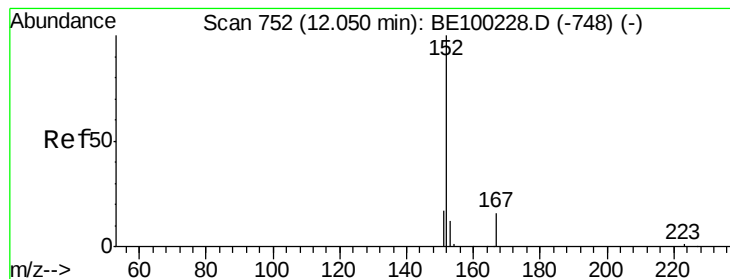
Acq: 3 Jul 2019 20:16

Tgt Ion:	128	Resp:	11102
Ion	Ratio	Lower	Upper
128	100		
129	3.9	3.0	4.6
127	4.1	3.5	5.3



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





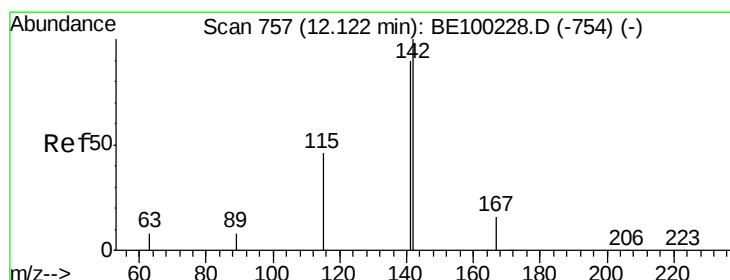
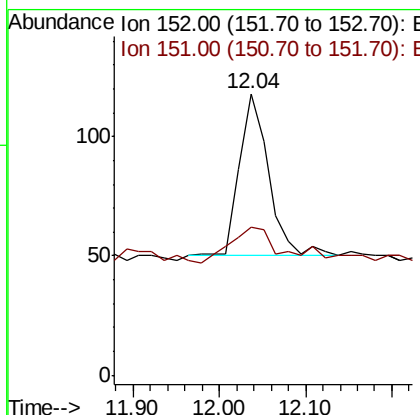
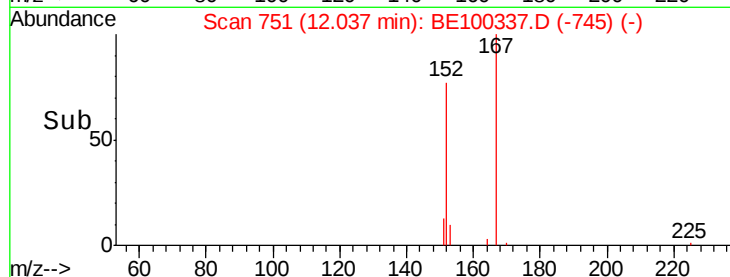
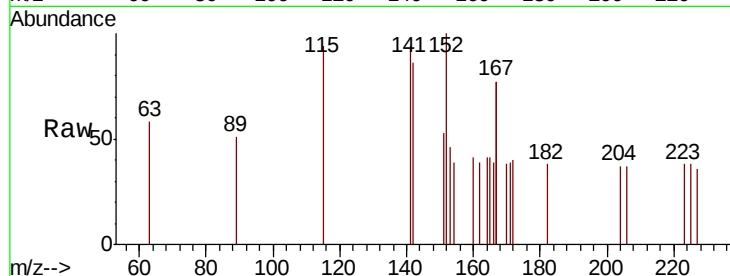
#11
2-Methylnaphthalene-d10
Concen: 0.033 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 33.8 15.1 22.7#

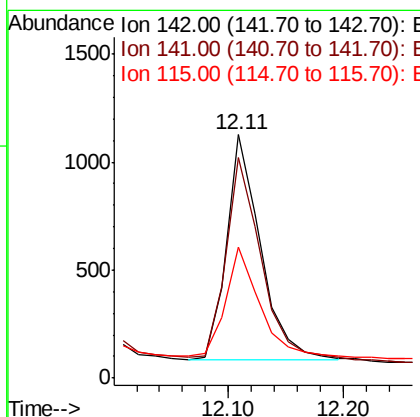
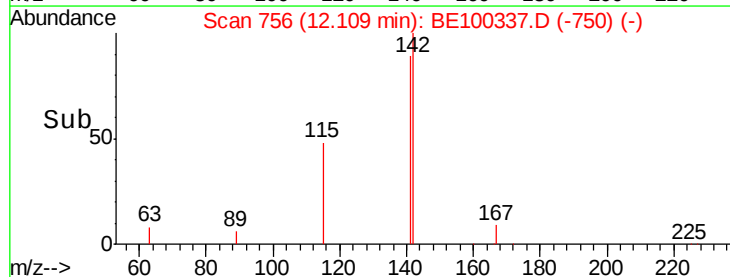
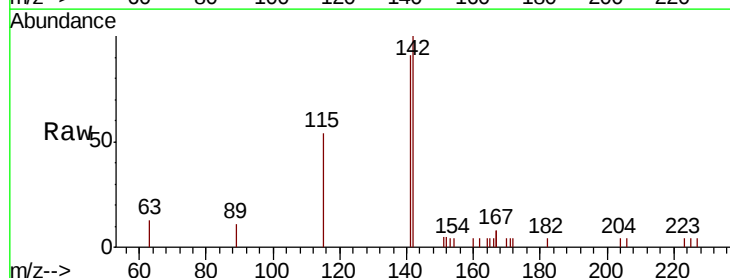
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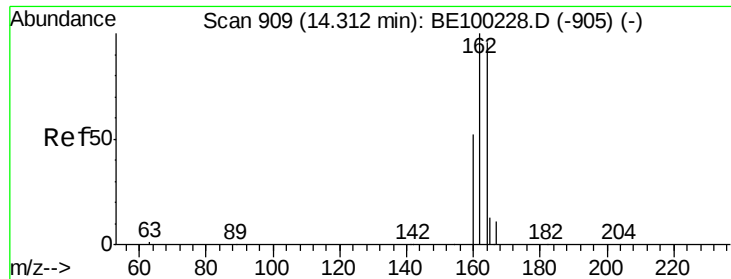
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#12
2-Methylnaphthalene
Concen: 0.430 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion:142 Resp: 2129
Ion Ratio Lower Upper
142 100
141 90.7 72.4 108.6
115 54.0 40.4 60.6





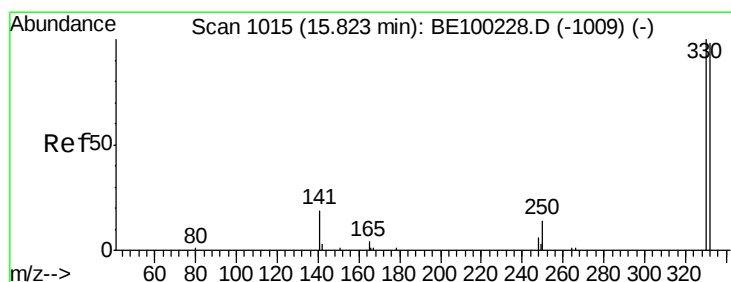
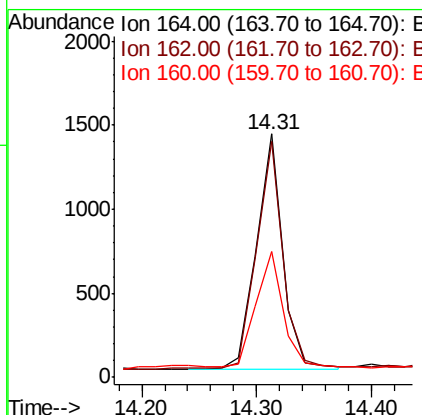
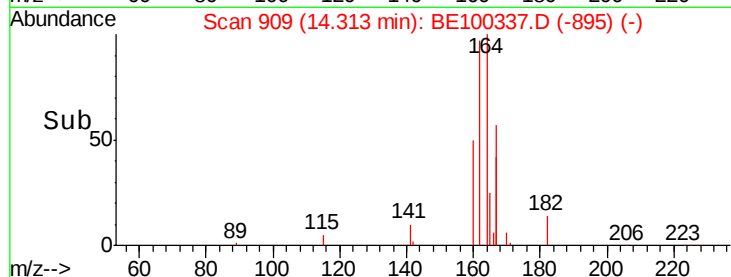
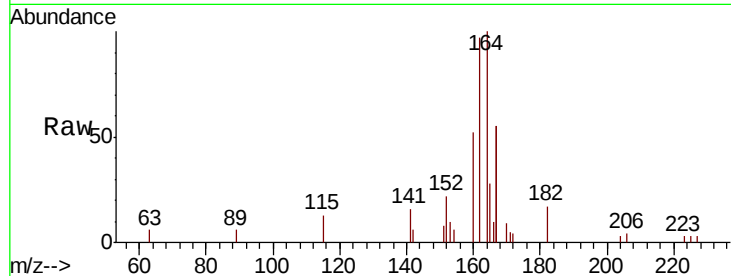
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.31 min Scan# 909
 Delta R.T. 0.00 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.8	83.4	125.0
160	51.9	45.0	67.6

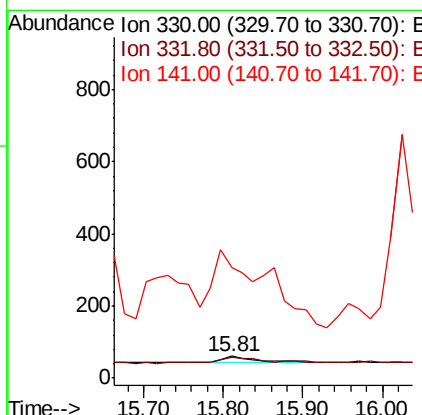
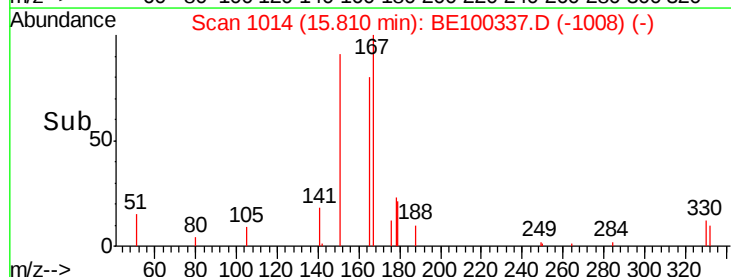
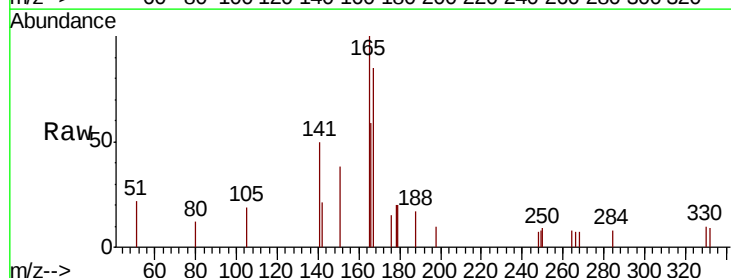
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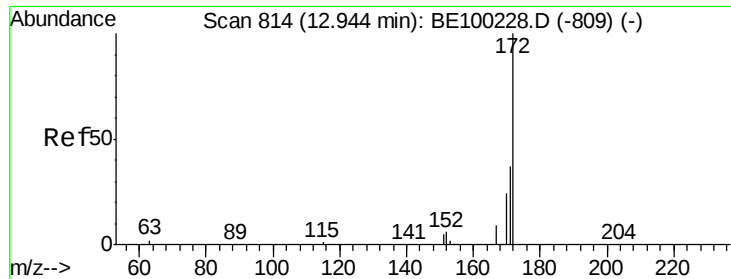
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#14
 2,4,6-Tribromophenol
 Concen: 0.038 ng
 RT: 15.81 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	67.8	77.0	115.4#
141	1747.5	22.0	33.0#





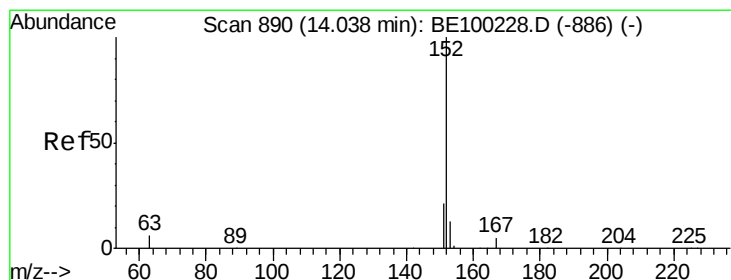
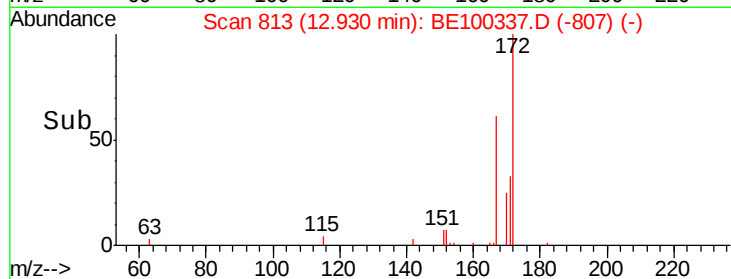
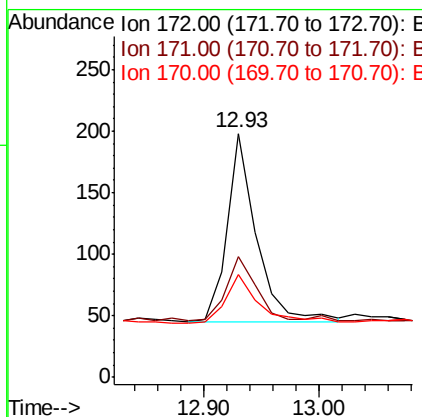
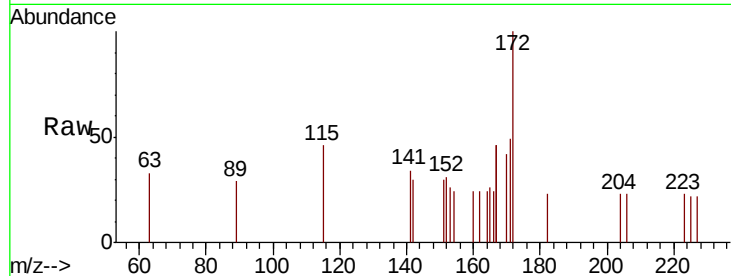
#15
2-Fluorobiphenyl
Concen: 0.031 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
172	100		
171	49.5	31.9	47.9#
170	41.9	22.2	33.2#

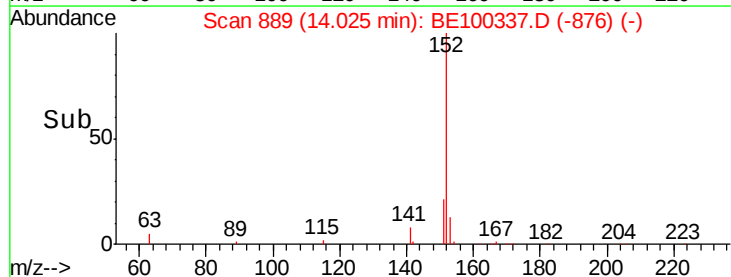
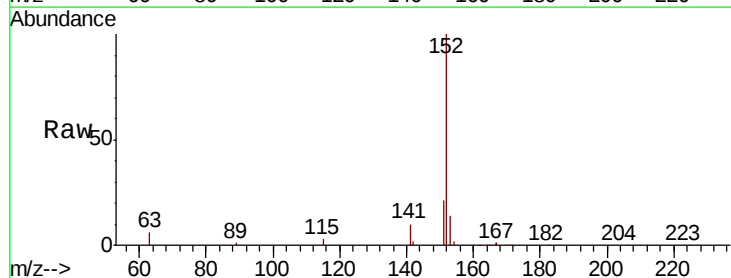
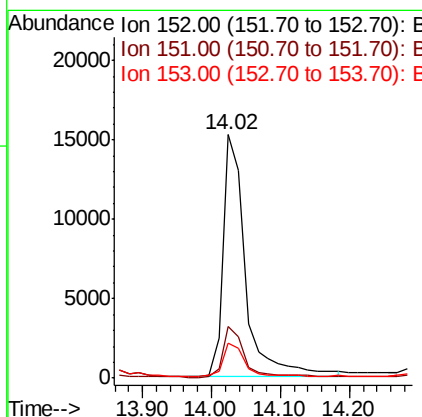
Manual Integrations
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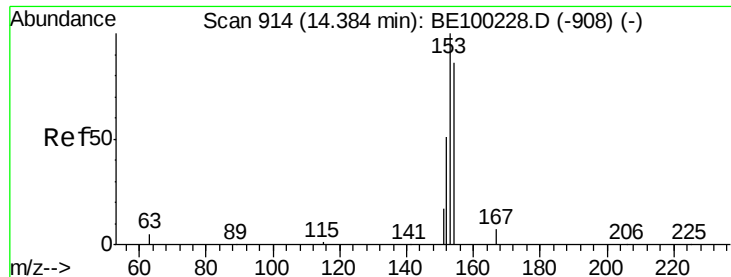
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#16
Acenaphthylene
Concen: 3.262 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	25.0
153	13.2	10.5	15.7





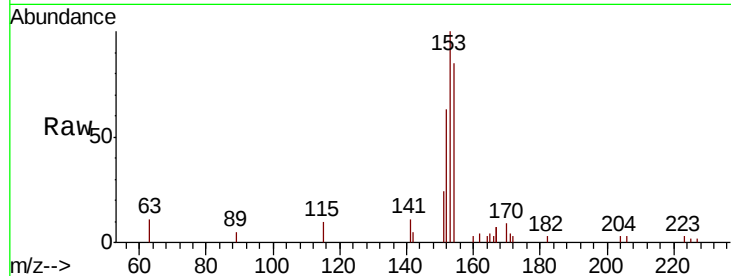
#17
Acenaphthene
Concen: 0.440 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.0	93.4	140.2
152	71.1	49.4	74.2

Manual Integrations
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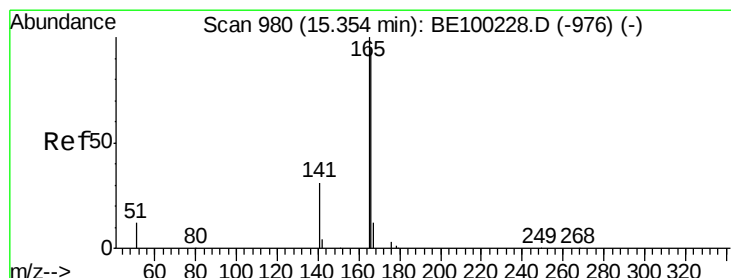
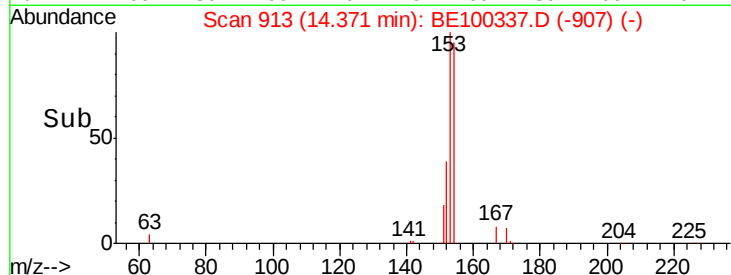
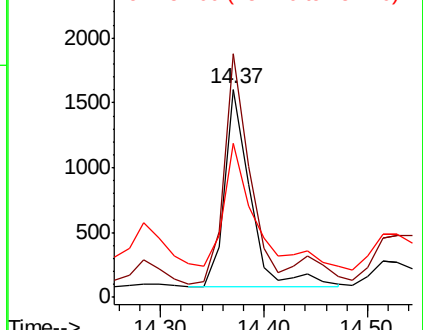


Abundance

Ion 154.00 (153.70 to 154.70): E

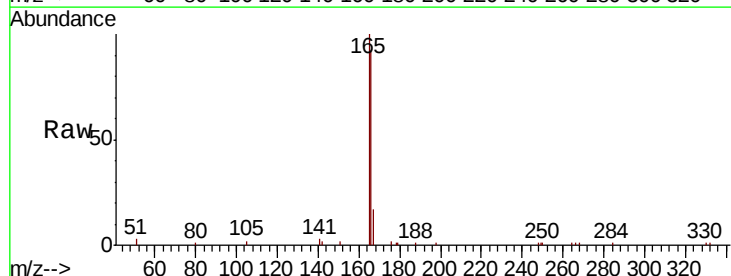
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 1.076 ng
RT: 15.35 min Scan# 980
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
166	100		
165	128.4	81.1	121.7#
167	0.0	10.7	16.1#

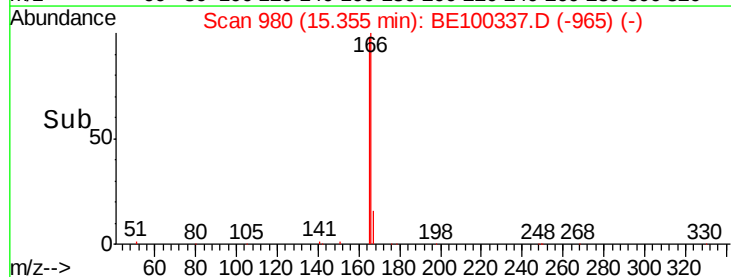
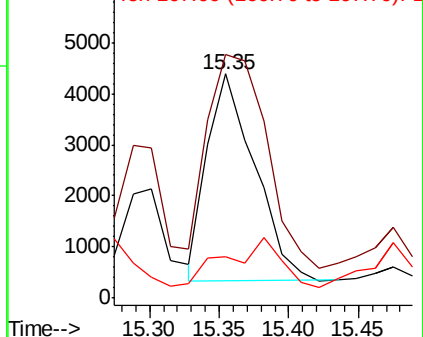


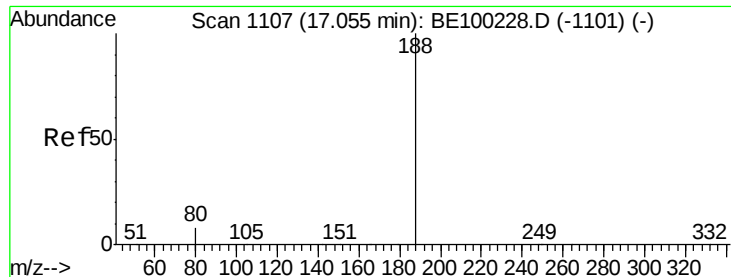
Abundance

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





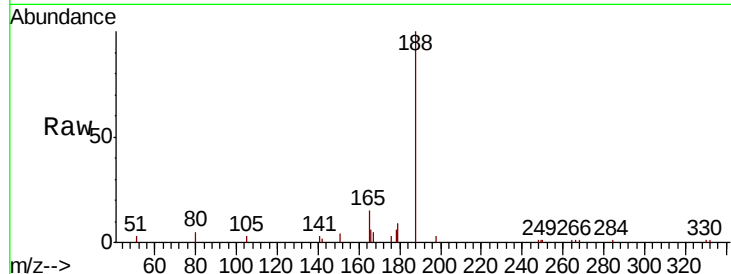
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1107
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Resp	Lower	Upper
188	100	6545		
94	0.0	0.0	0.0	
80	5.4	7.6	11.4	

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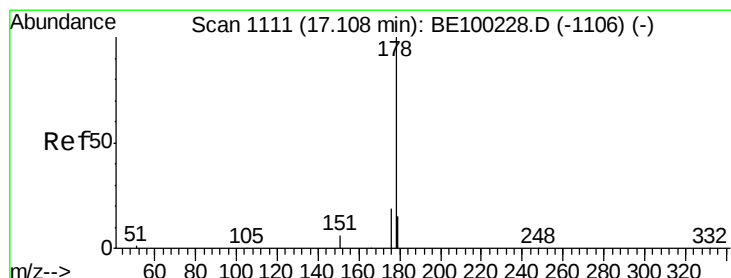
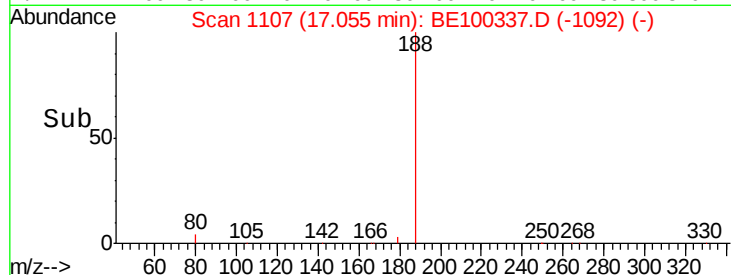
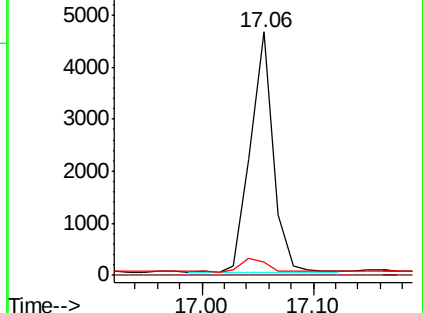


Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#23
Phenanthrene
Concen: 15.032 ng
RT: 17.10 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

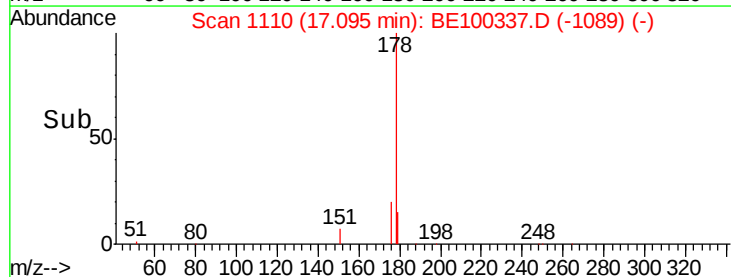
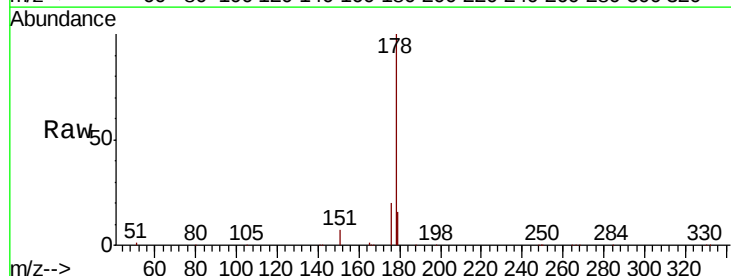
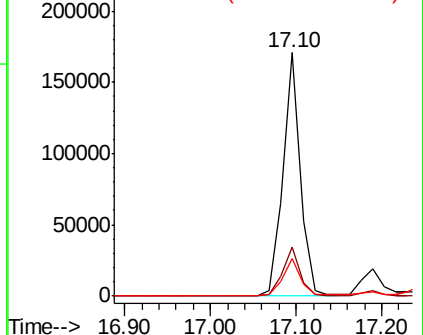
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	238458		
176	20.1	15.9	23.9	
179	15.8	12.2	18.2	

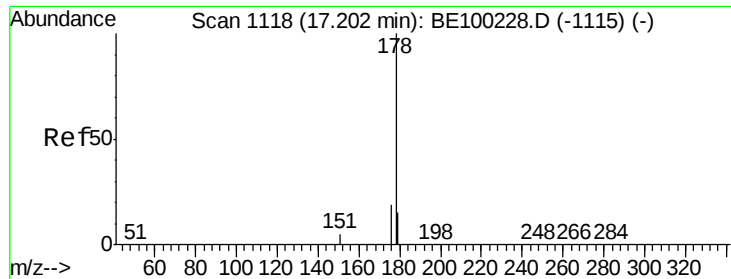
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





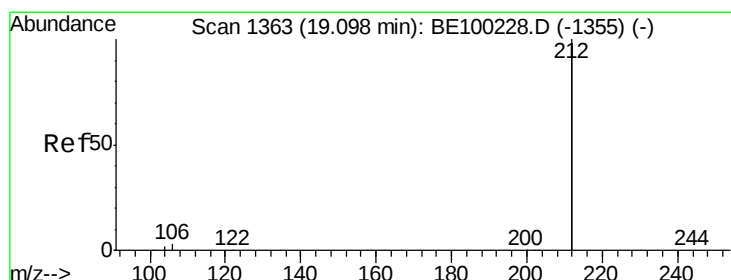
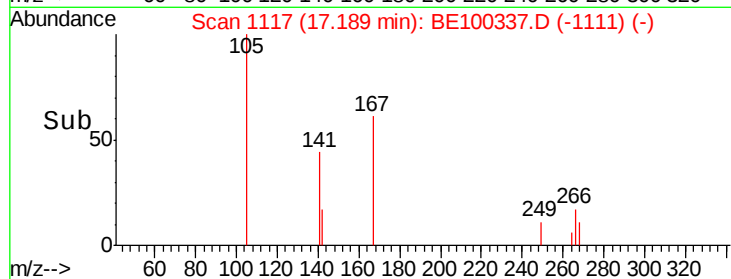
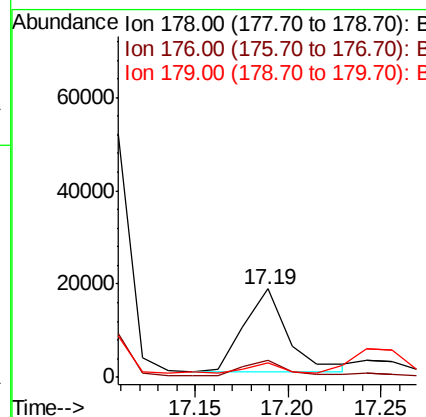
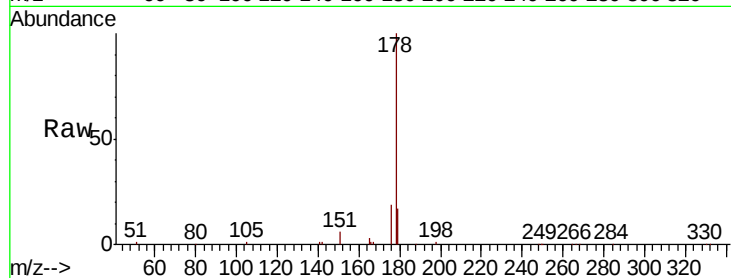
#24
 Anthracene
 Concen: 2.021 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	13.3	12.2	18.2

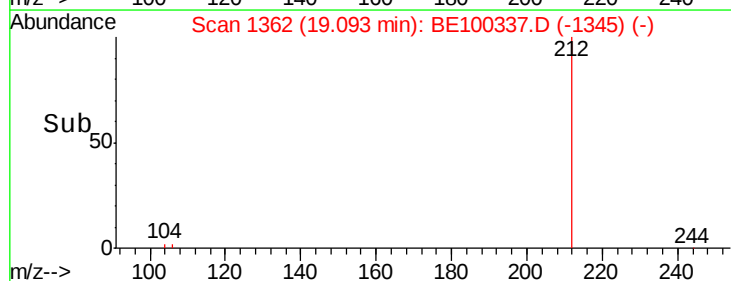
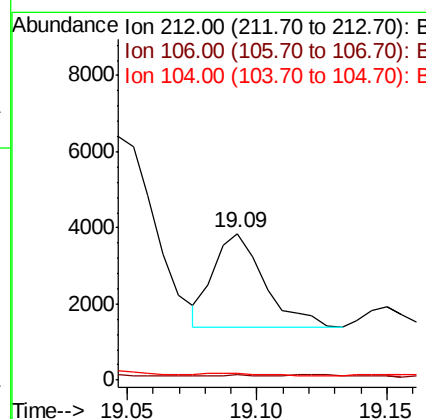
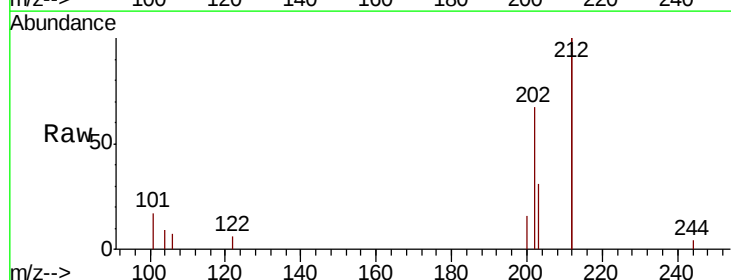
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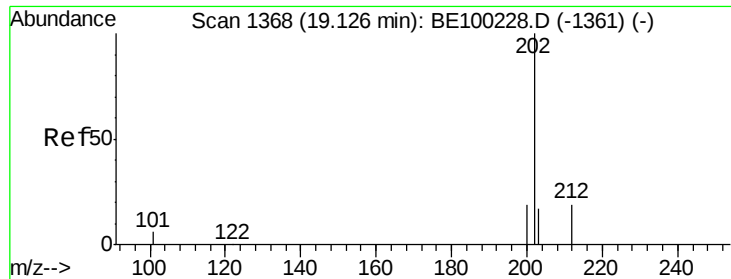
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#25
 Fluoranthene-d10
 Concen: 0.035 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.1	1.3	1.9#
104	3.4	0.8	1.2#





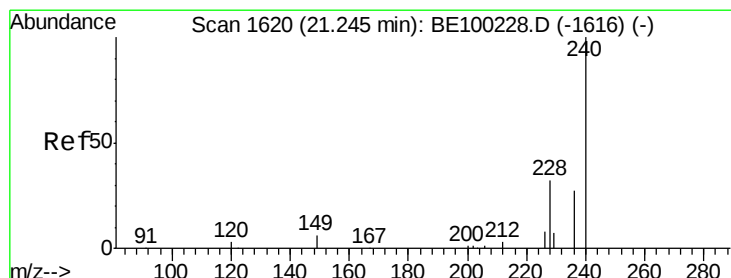
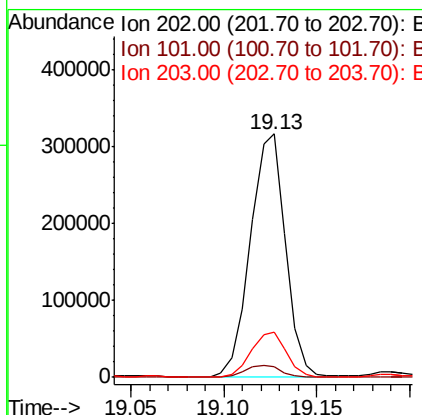
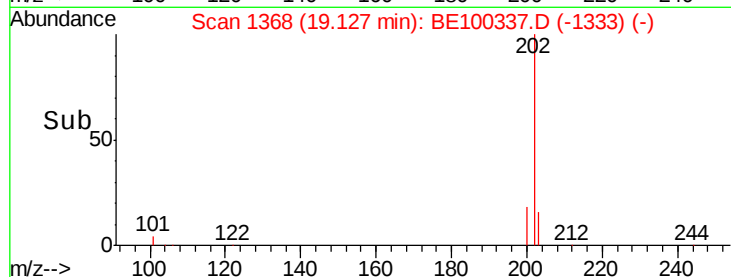
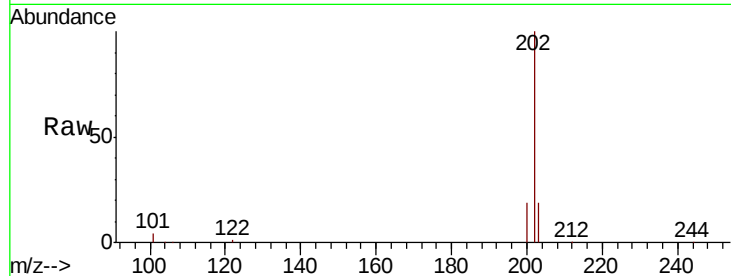
#26
Fluoranthene
Concen: 16.531 ng
RT: 19.13 min Scan# 1368
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.0	4.6	7.0
203	18.4	13.7	20.5

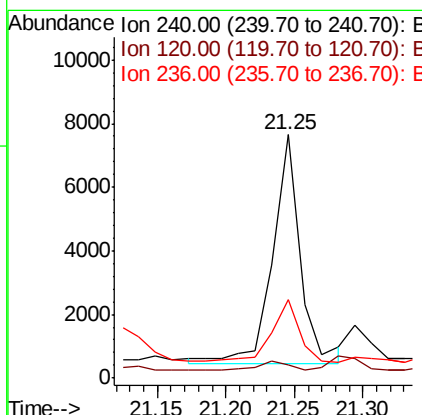
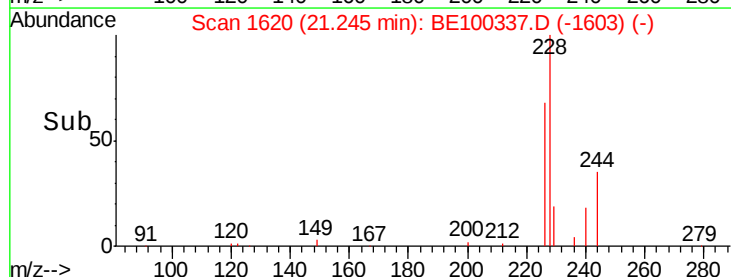
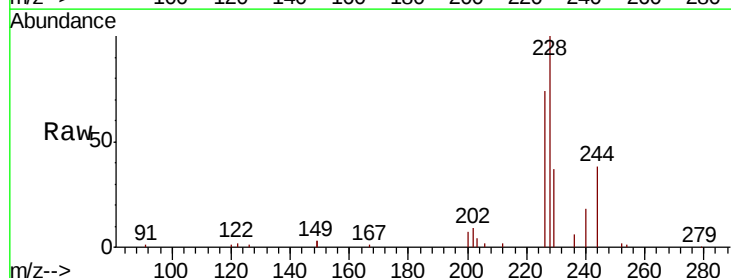
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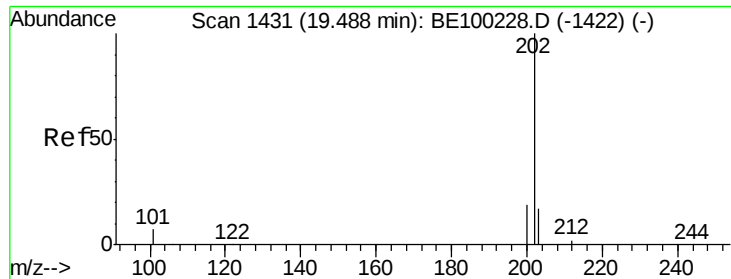
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.3	3.3	4.9#
236	32.1	22.6	34.0





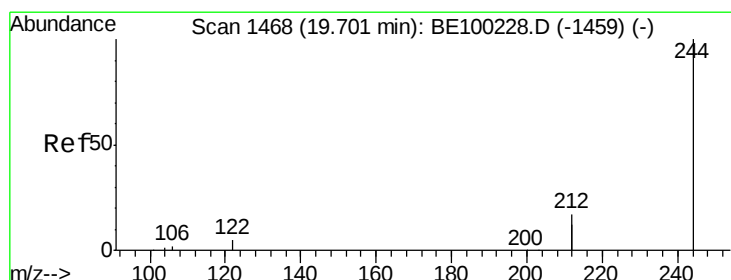
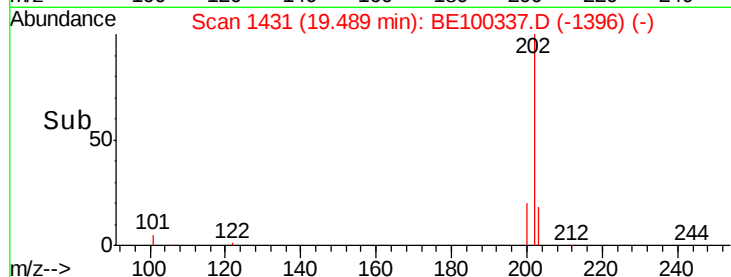
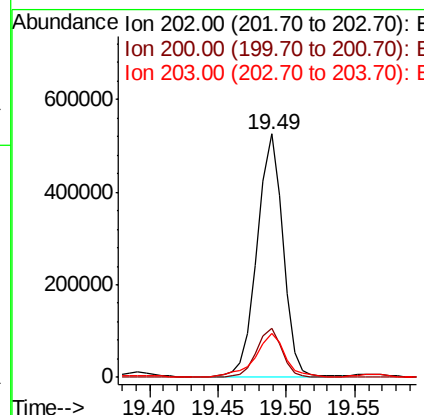
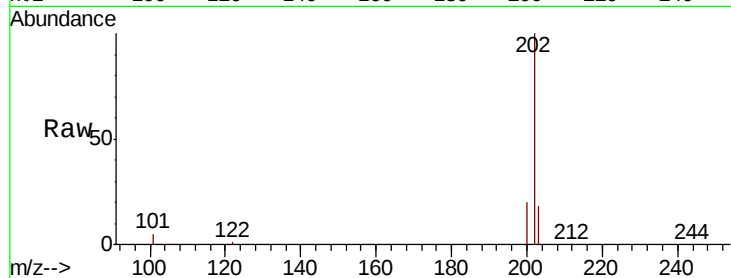
#28
Pvrene
Concen: 25.318 ng
RT: 19.49 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.0	15.6	23.4
203	20.5	14.0	21.0

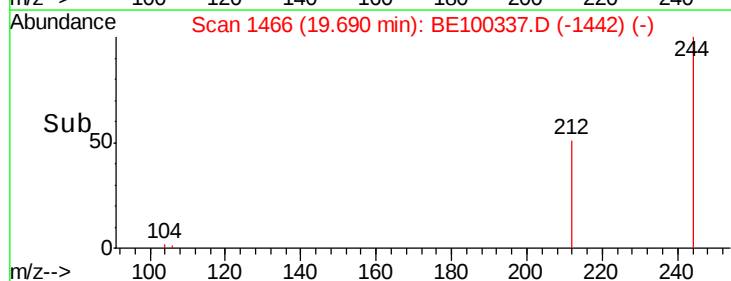
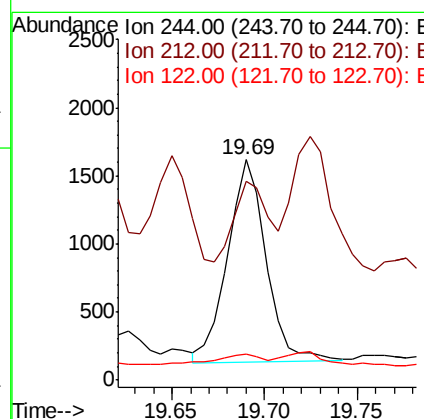
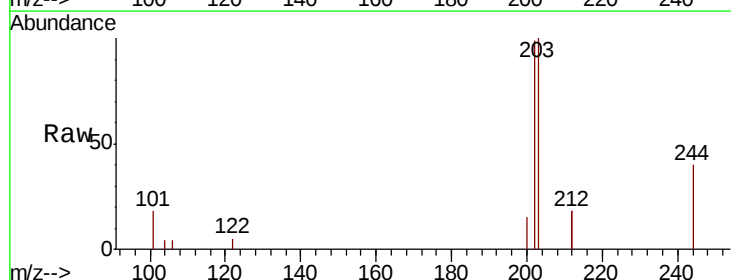
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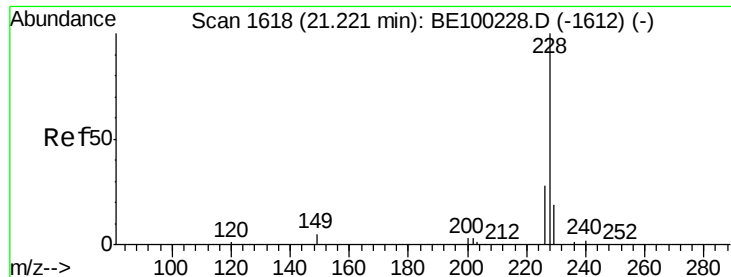
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#29
Terphenyl-d14
Concen: 0.102 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	89.9	27.3	40.9#
122	12.0	4.7	7.1#





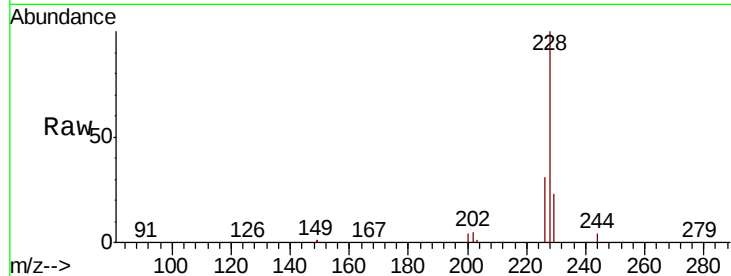
#30
Benzo(a)anthracene
Concen: 10.239 ng
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.2	34.8
229	23.0	15.7	23.5

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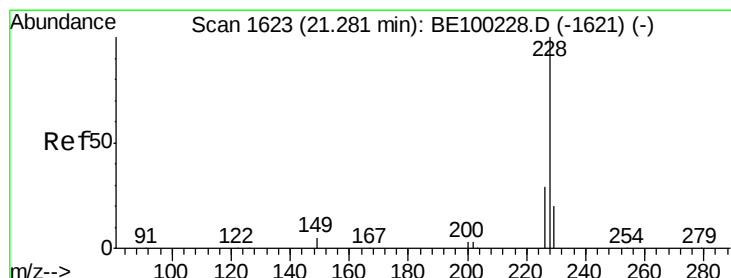
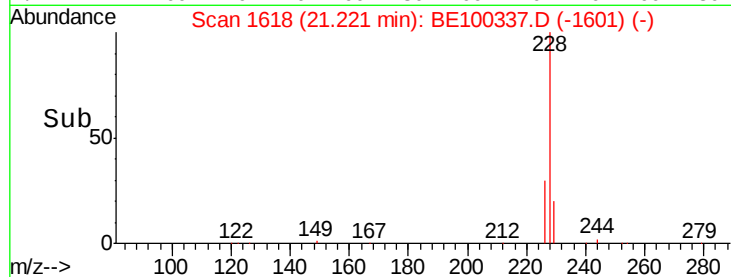
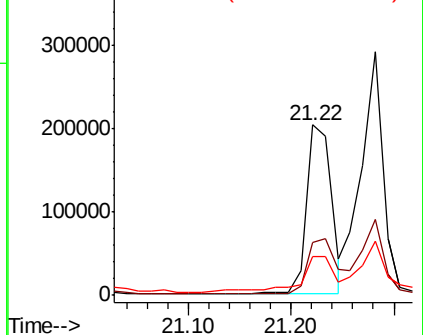


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31
Chrysene
Concen: 12.734 ng
RT: 21.28 min Scan# 1623
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

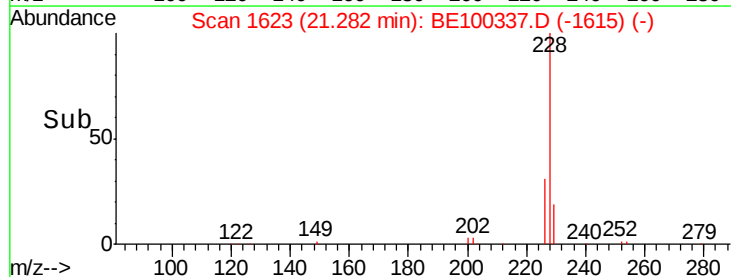
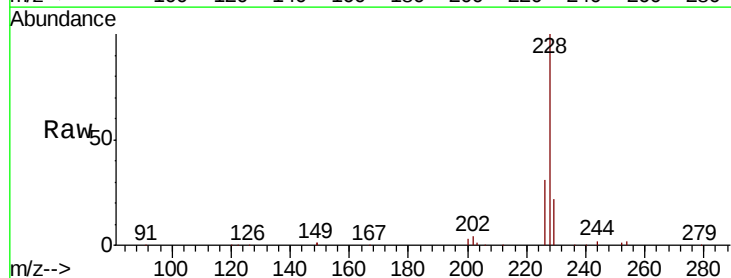
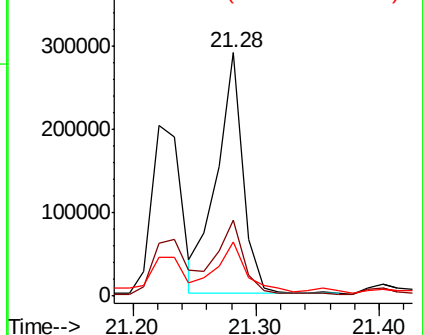
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.9	35.9
229	22.3	16.5	24.7

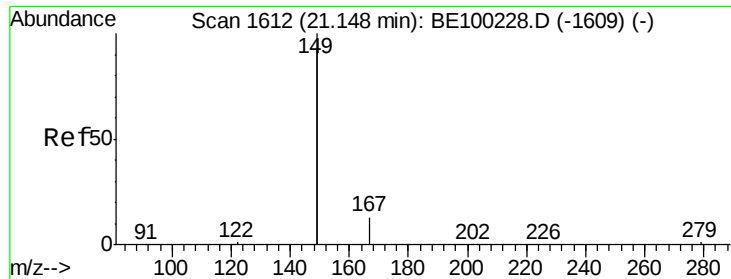
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





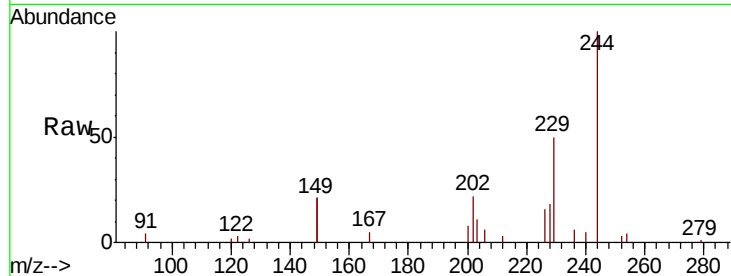
#32
Bis(2-ethylhexyl)phthalate
Concen: 0.050 ng
RT: 21.15 min Scan# 1612
Delta R.T. 0.00 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
149	100		
167	12.9	5.8	8.8#
279	1.6	1.1	1.7

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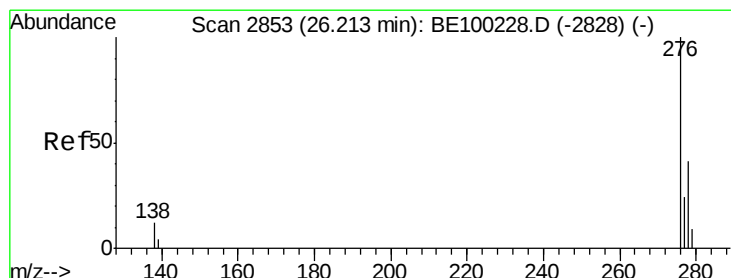
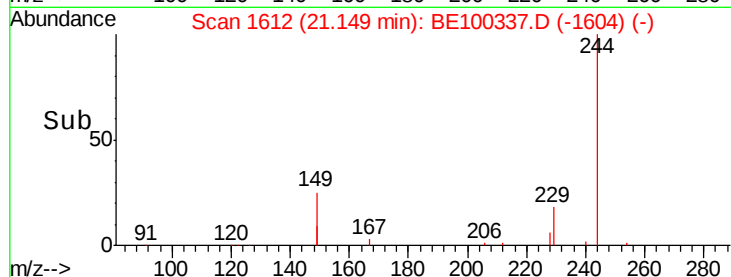
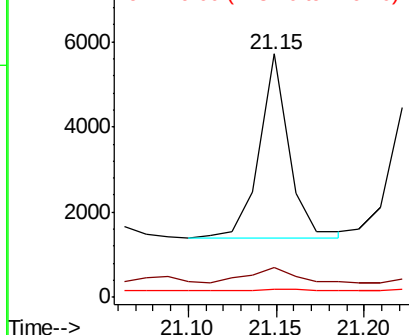


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33
Indeno(1,2,3-cd)pyrene
Concen: 3.833 ng
RT: 26.22 min Scan# 2856
Delta R.T. 0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

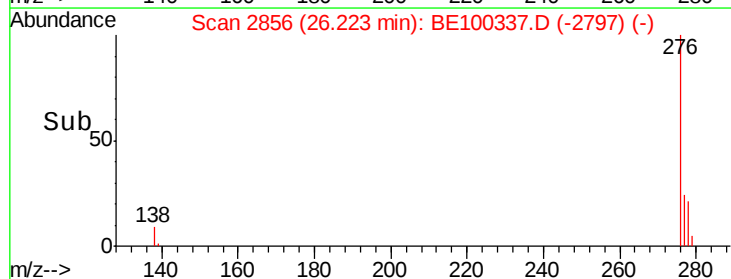
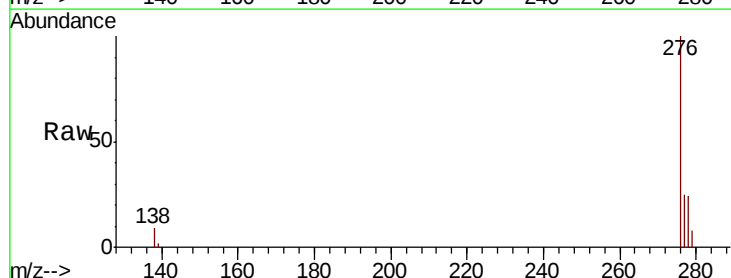
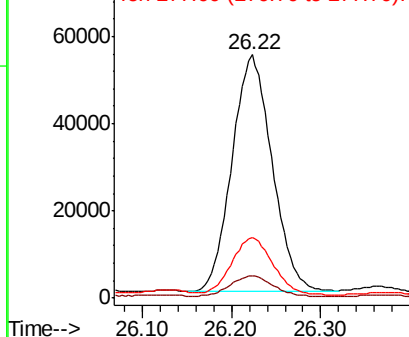
Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.1	9.4	14.0#
277	24.7	19.2	28.8

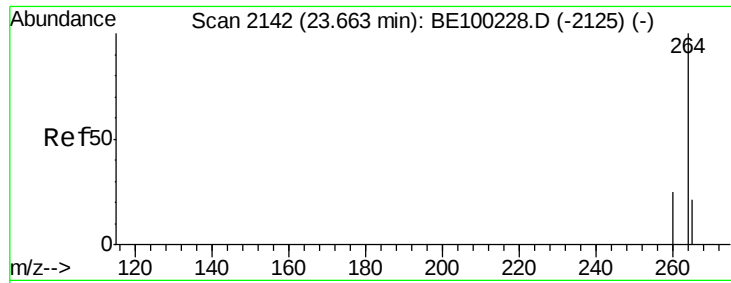
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





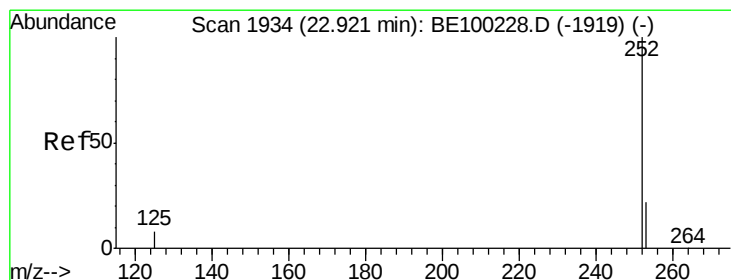
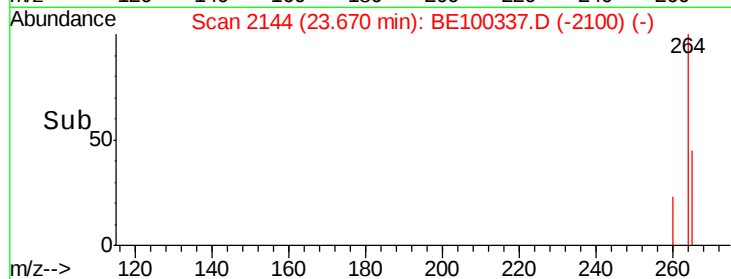
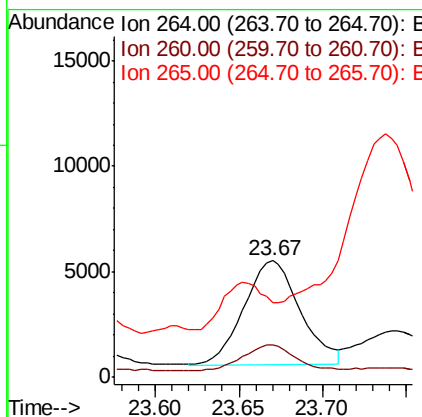
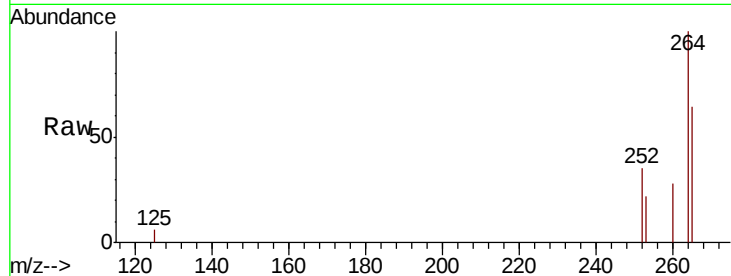
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.67 min Scan# 2144
 Delta R.T. 0.01 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.6	20.8	31.2
265	63.6	21.8	32.6

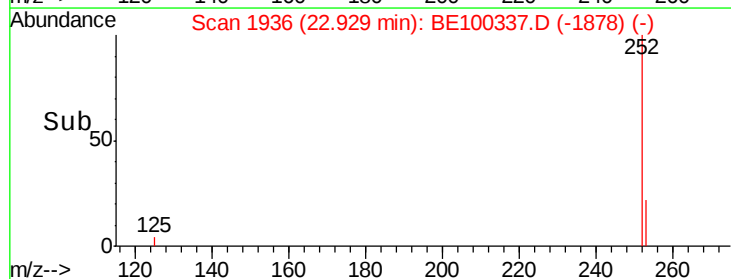
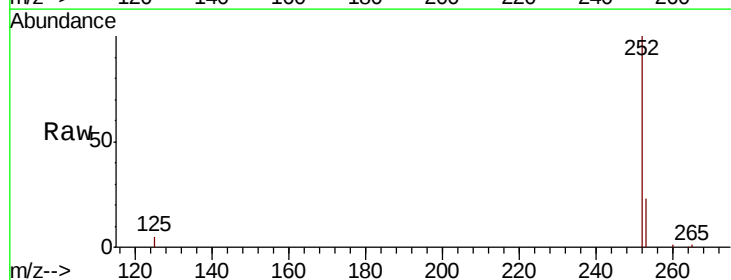
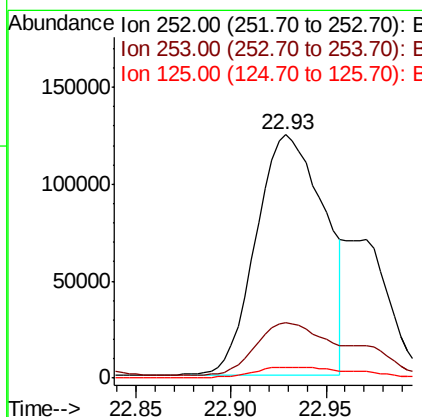
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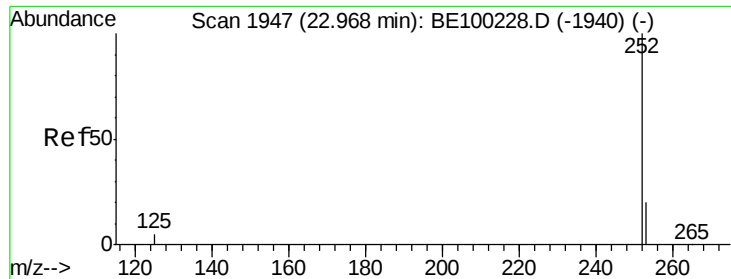
mohammad
 7/5/2019 8:54:22 AM



#35
 Benzo(b)fluoranthene
 Concen: 9.866 ng m
 RT: 22.93 min Scan# 1936
 Delta R.T. 0.01 min
 Lab File: BE100337.D
 Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	19.2	28.8
125	4.6	7.4	11.0





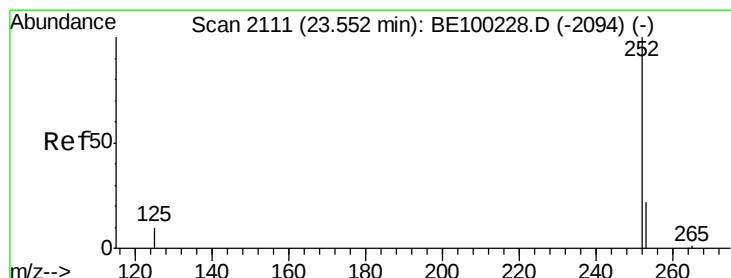
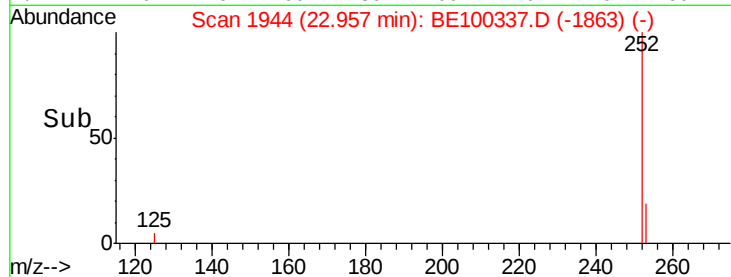
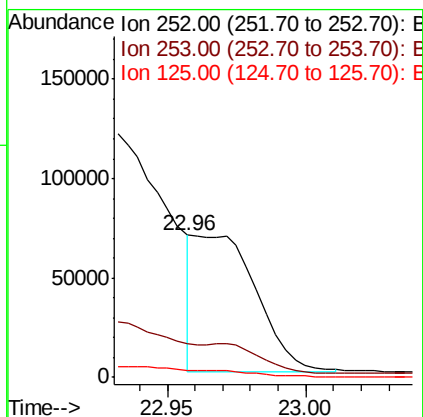
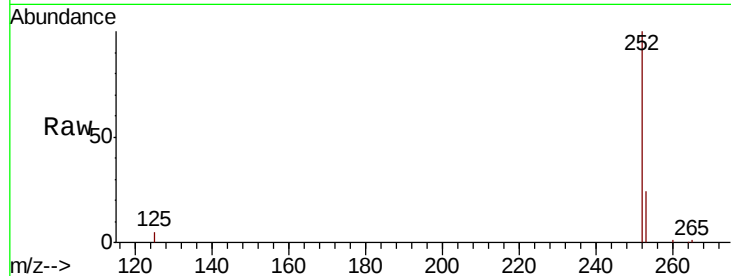
#36
Benzo(k)fluoranthene
Concen: 3.063 ng m
RT: 22.96 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	5.2	5.0	7.4

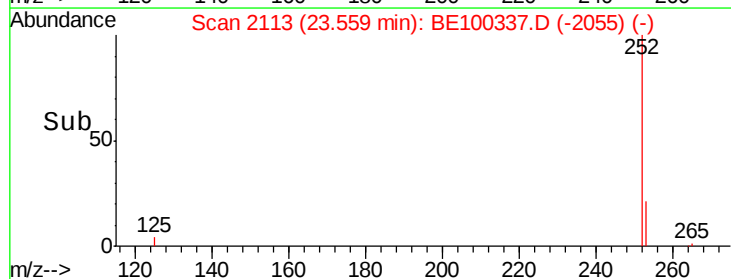
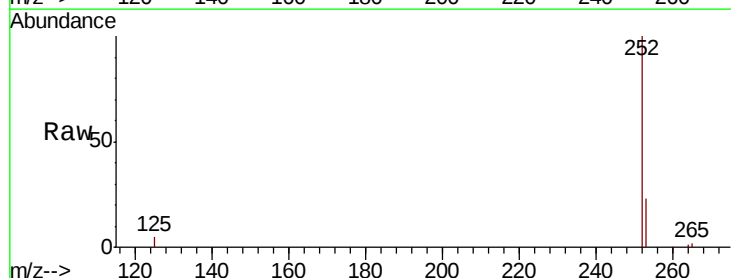
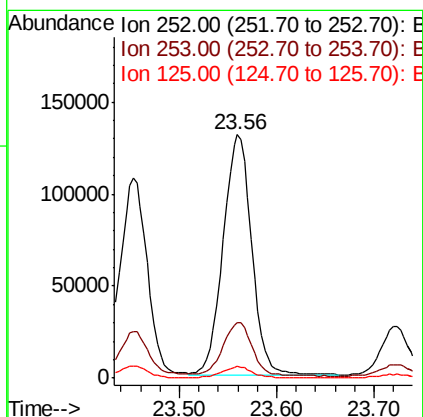
Manual Integrations
APPROVED

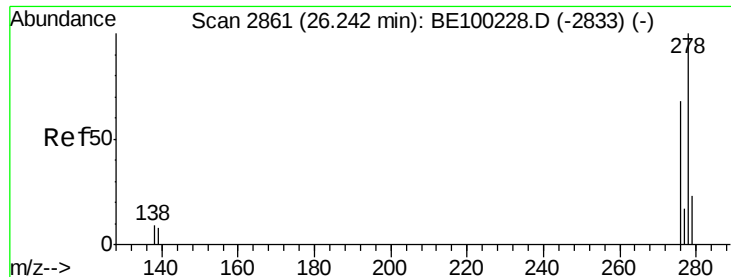
mohammad
7/5/2019 8:54:22 AM



#37
Benzo(a)pyrene
Concen: 8.459 ng
RT: 23.56 min Scan# 2113
Delta R.T. 0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	4.7	9.0	13.6





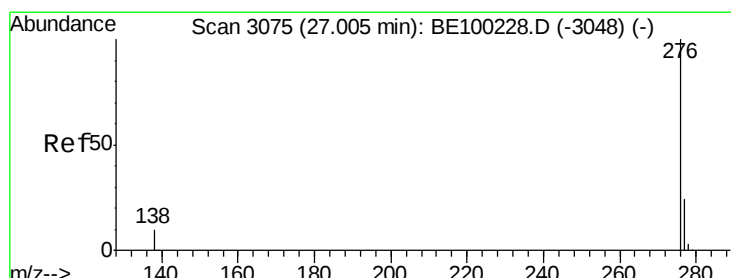
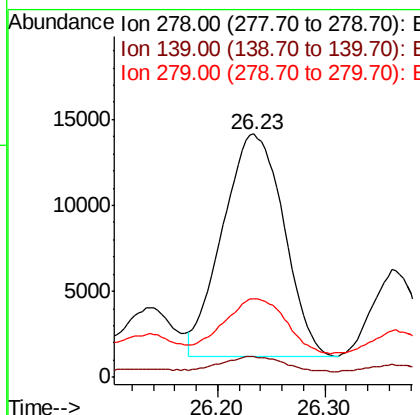
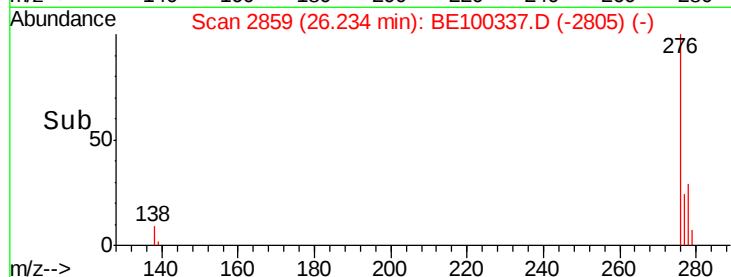
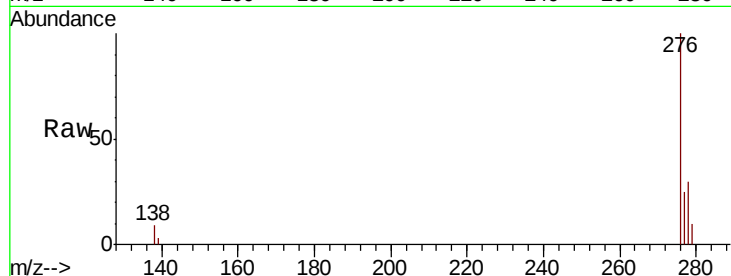
#38
Dibenzo(a,h)anthracene
Concen: 1.560 ng
RT: 26.23 min Scan# 2859
Delta R.T. -0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW086-062519

Tot Ion	Ratio	Lower	Upper
278	100		
139	8.6	8.2	12.2
279	32.3	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:22 AM



#39
Benzo(g,h,i)perylene
Concen: 6.018 ng
RT: 27.01 min Scan# 3078
Delta R.T. 0.01 min
Lab File: BE100337.D
Acq: 3 Jul 2019 20:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	20.2	30.2
138	9.3	9.0	13.6

