

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
 Data File : BE100391.D
 Acq On : 5 Jul 2019 20:57
 Operator : JU/SJ
 Sample : K3560-13
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW134-062419

Manual Integrations
 APPROVED

mohammad
 7/8/2019 2:14:10 PM

Quant Time: Jul 06 01:01:22 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	7.62	152	825	0.40	ng	-0.02
7) Naphthalene-d8	10.42	136	2759	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	2190	0.40	ng	-0.01
19) Phenanthrene-d10	17.04	188	6439	0.40	ng	-0.01
27) Chrysene-d12	21.23	240	8465	0.40	ng	-0.01
34) Perylene-d12	23.65	264	9965	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.19	112	863	0.41	ng	-0.02
5) Phenol-d6	6.81	99	1047	0.38	ng	-0.02
8) Nitrobenzene-d5	8.79	82	700	0.26	ng	-0.03
11) 2-Methylnaphthalene-d10	12.02	152	1856	0.36	ng	-0.03
14) 2,4,6-Tribromophenol	15.80	330	610	0.40	ng	-0.03
15) 2-Fluorobiphenyl	12.93	172	2852	0.33	ng	-0.01
25) Fluoranthene-d10	19.08	212	27961	0.30	ng	-0.02
29) Terphenyl-d14	19.68	244	5280	0.30	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.47	128	722	0.024	ng	# 78
12) 2-Methylnaphthalene	12.11	142	154	0.029	ng	# 86
16) Acenaphthylene	14.02	152	881	0.084	ng	99
17) Acenaphthene	14.37	154	134	0.023	ng	87
18) Fluorene	15.34	166	381	0.043	ng	# 90
23) Phenanthrene	17.08	178	11076	0.710	ng	99
24) Anthracene	17.17	178	780	0.056	ng	# 81
26) Fluoranthene	19.12	202	15716	0.632	ng	98
28) Pyrene	19.48	202	24837	1.108	ng	97
30) Benzo(a)anthracene	21.22	228	9870	0.355	ng	# 85
31) Chrysene	21.27	228	14219	0.509	ng	94
32) Bis(2-ethylhexyl)phthalate	21.14	149	8436	0.157	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.21	276	5835	0.158	ng	96
35) Benzo(b)fluoranthene	22.91	252	11277	0.417	ng	# 92
36) Benzo(k)fluoranthene	22.96	252	3780m	0.125	ng	
37) Benzo(a)pyrene	23.54	252	8905m	0.329	ng	
38) Dibenzo(a,h)anthracene	26.22	278	1480	0.052	ng	# 35
39) Benzo(a,h,i)perylene	26.99	276	6928	0.238	ng	# 90

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

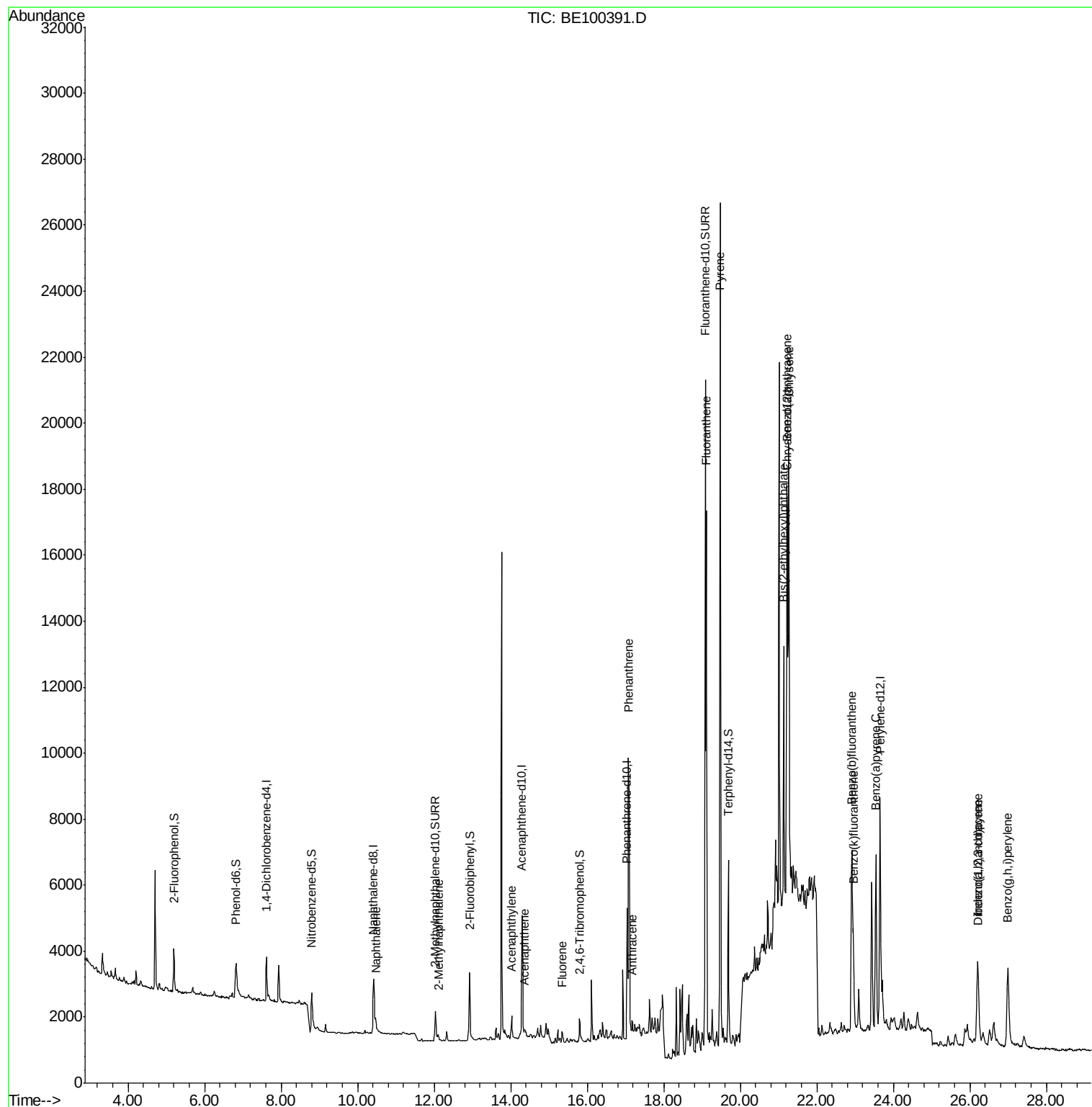
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
Data File : BE100391.D
Acq On : 5 Jul 2019 20:57
Operator : JU/SJ
Sample : K3560-13
Misc :
ALS Vial : 18 Sample Multiplier: 1

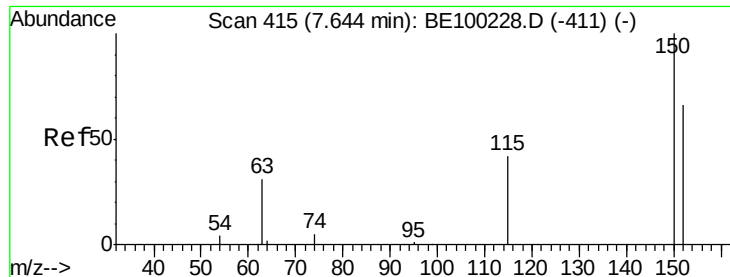
Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Manual Integrations
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Quant Time: Jul 06 01:01:22 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
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#1

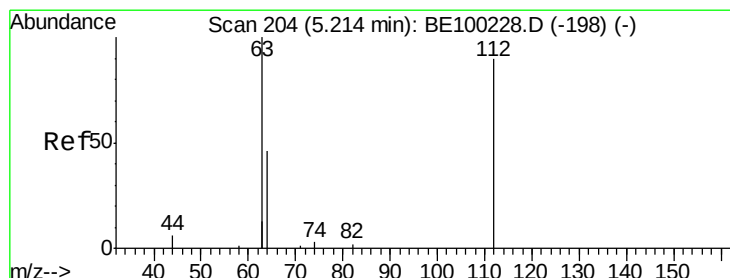
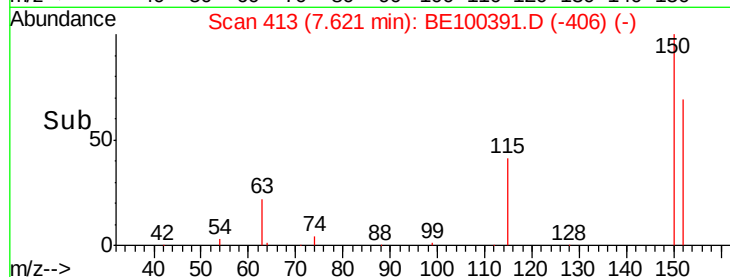
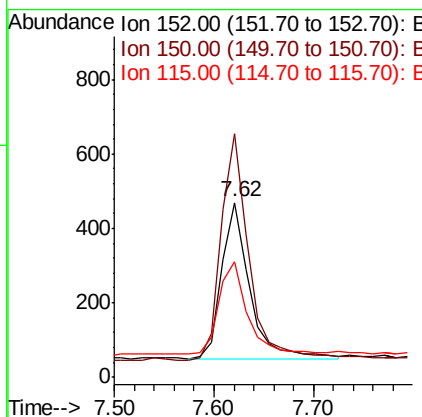
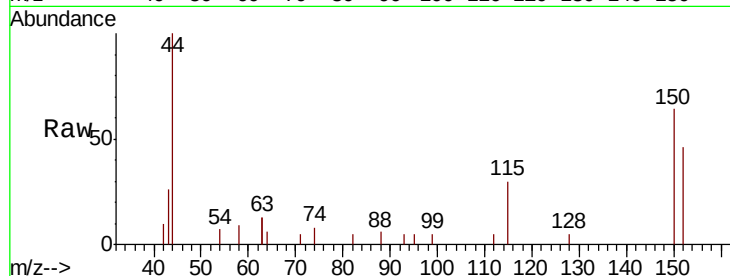
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 413
Delta R.T. -0.02 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
152	100		
150	139.4	114.5	171.7
115	66.3	57.1	85.7

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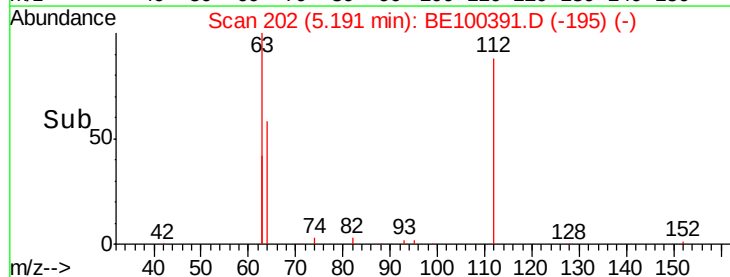
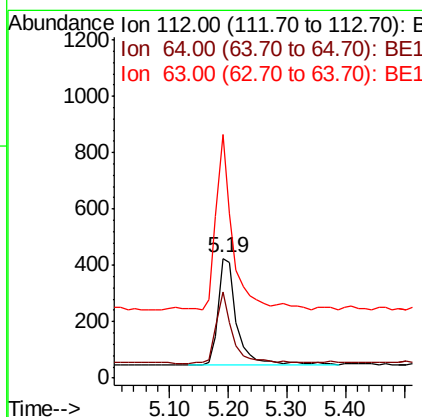
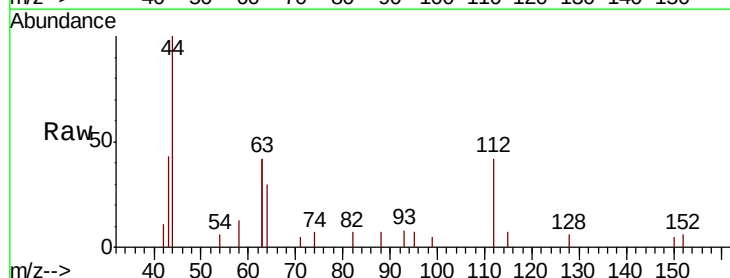
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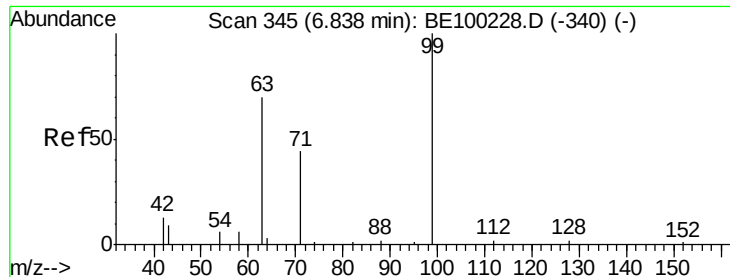


#4

2-Fluorophenol
Concen: 0.410 ng
RT: 5.19 min Scan# 202
Delta R.T. -0.02 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.0	39.4	59.0
63	138.6	104.5	156.7





#5

Phenol-d6

Concen: 0.378 ng

RT: 6.81 min Scan# 343

Delta R.T. -0.02 min

Lab File: BE100391.D

Acq: 5 Jul 2019 20:57

Instrument :

BNA_E

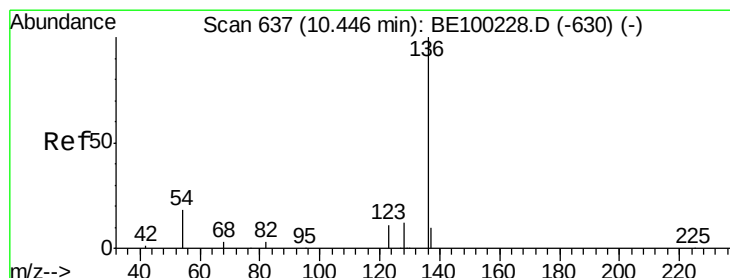
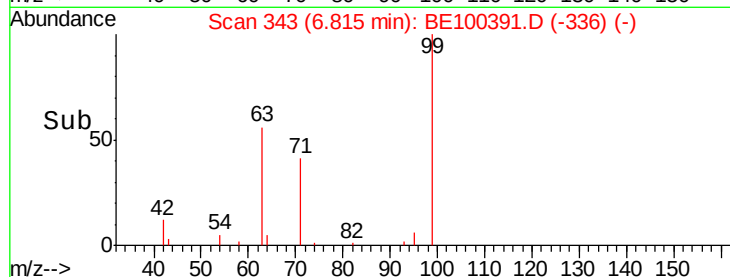
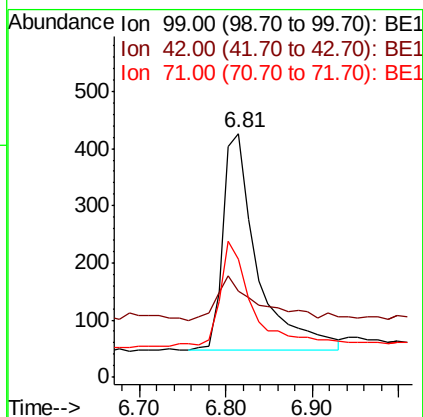
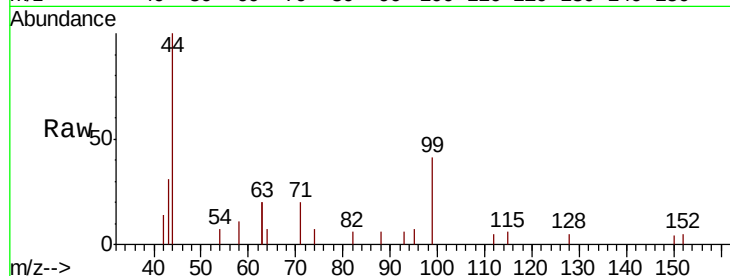
ClientSampleId :

EXT-009-SW134-062419

Tot Ion:	99	Resp:	1047
Ion	Ratio	Lower	Upper
99	100		
42	24.9	11.2	16.8#
71	48.8	37.2	55.8

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#7

Naphthalene-d8

Concen: 0.400 ng

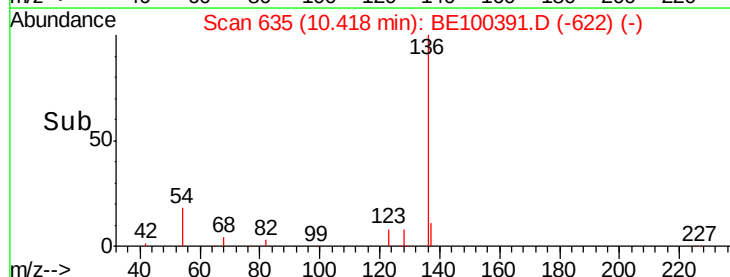
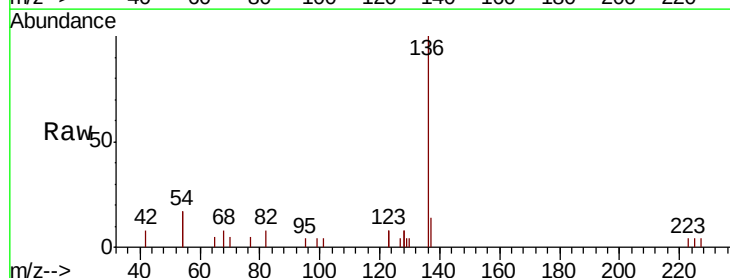
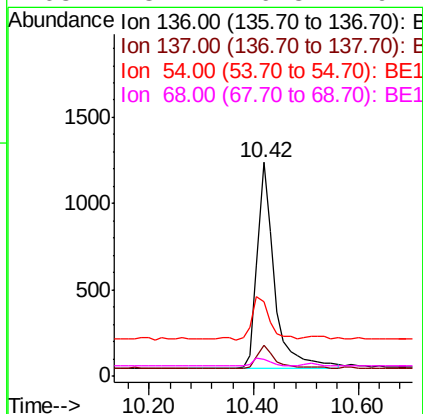
RT: 10.42 min Scan# 635

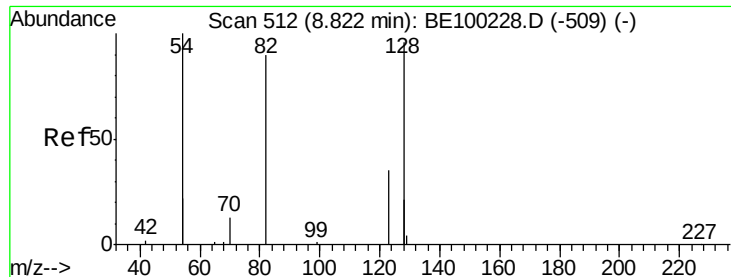
Delta R.T. -0.03 min

Lab File: BE100391.D

Acq: 5 Jul 2019 20:57

Tgt Ion:	136	Resp:	2759
Ion	Ratio	Lower	Upper
136	100		
137	14.4	11.8	17.8
54	34.5	27.7	41.5
68	8.1	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.255 ng

RT: 8.79 min Scan# 510

Delta R.T. -0.03 min

Lab File: BE100391.D

Acq: 5 Jul 2019 20:57

Instrument :

BNA_E

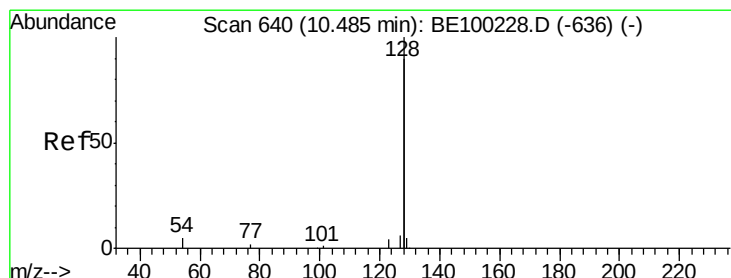
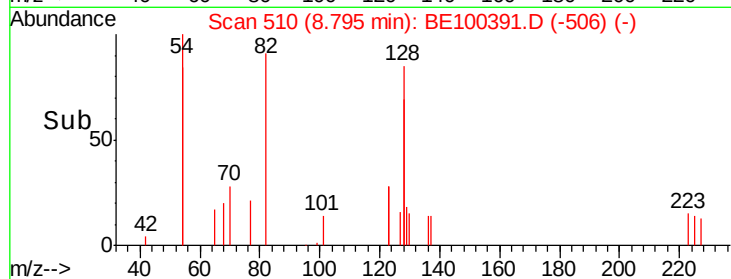
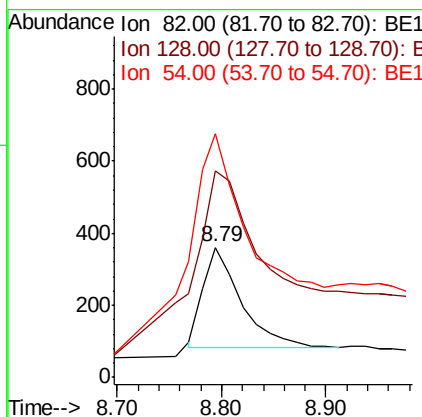
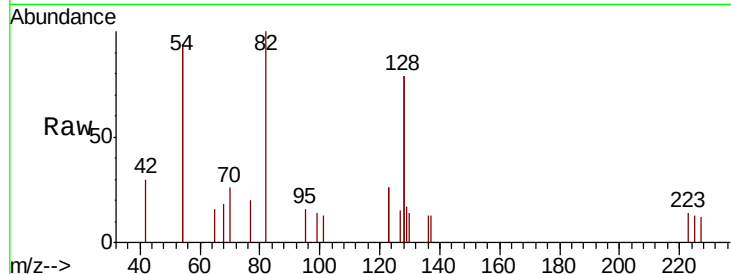
ClientSampleId :

EXT-009-SW134-062419

Tot Ion:	82	Resp:	700
Ion	Ratio	Lower	Upper
82	100		
128	158.4	140.9	211.3
54	187.3	146.2	219.2

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#9

Naphthalene

Concen: 0.024 ng

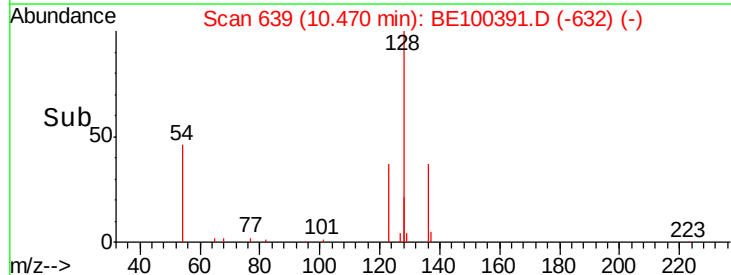
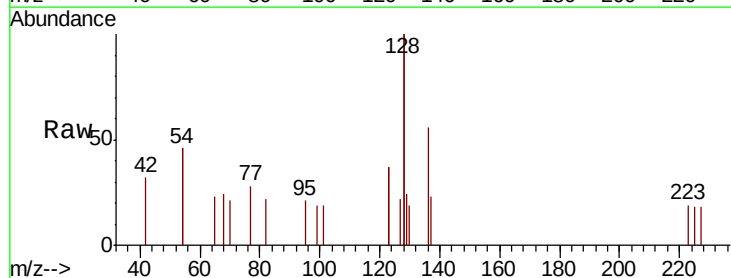
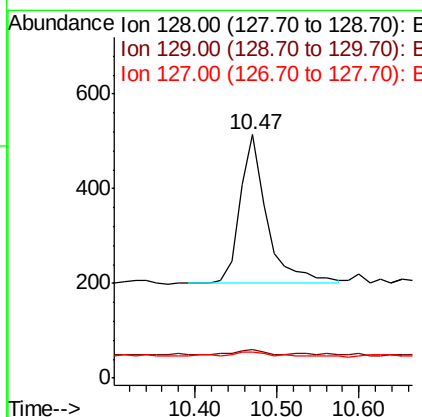
RT: 10.47 min Scan# 639

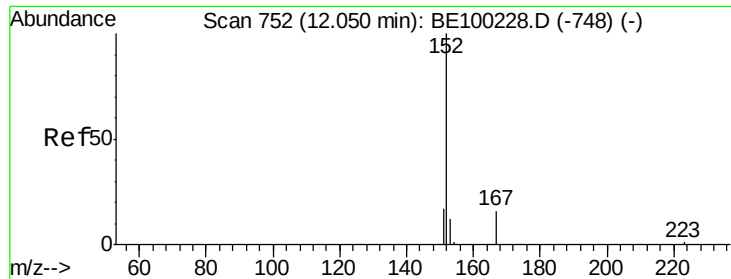
Delta R.T. -0.01 min

Lab File: BE100391.D

Acq: 5 Jul 2019 20:57

Tgt Ion:	128	Resp:	722
Ion	Ratio	Lower	Upper
128	100		
129	11.9	3.0	4.6#
127	10.9	3.5	5.3#





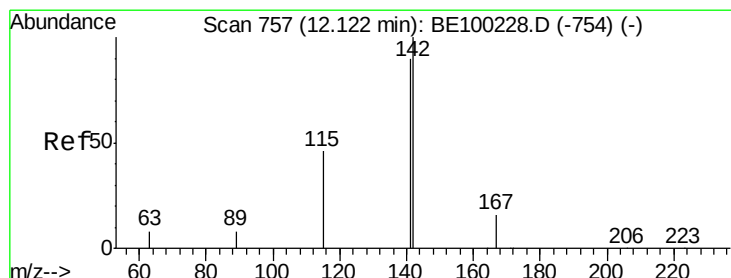
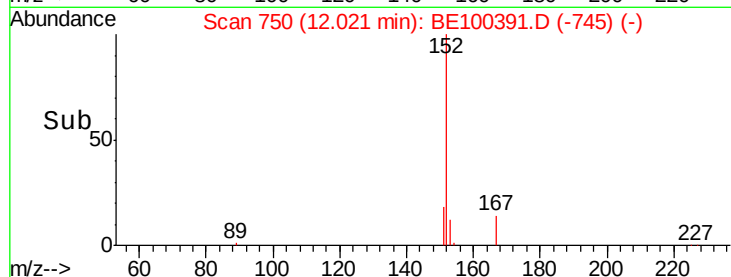
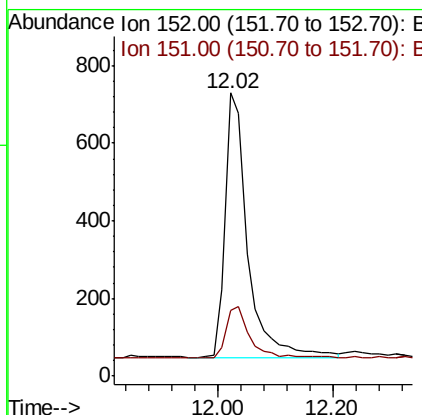
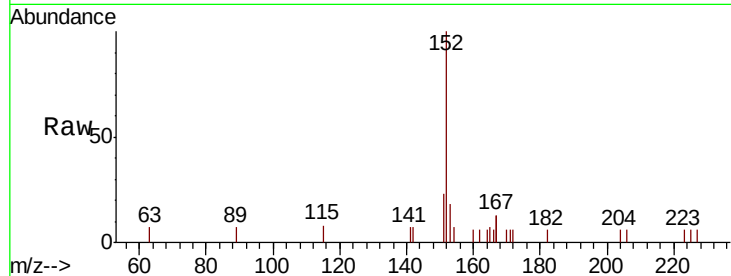
#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.02 min Scan# 750
Delta R.T. -0.03 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.1	22.7

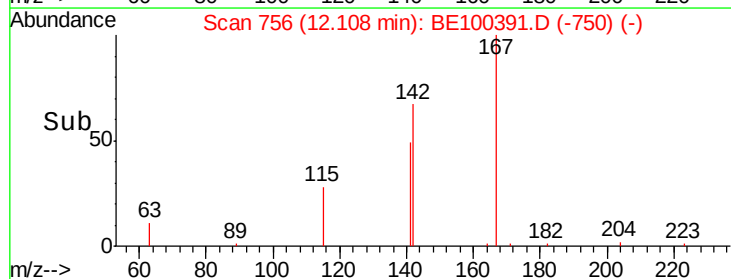
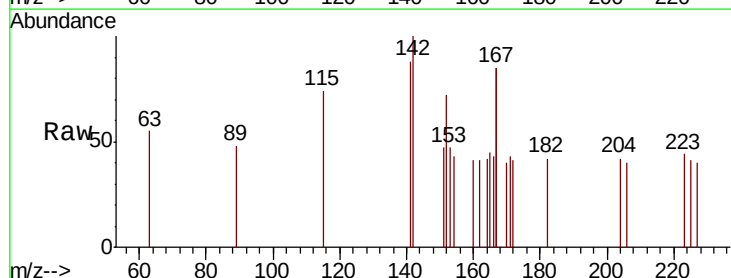
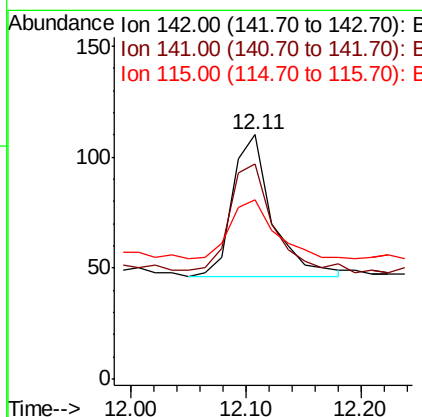
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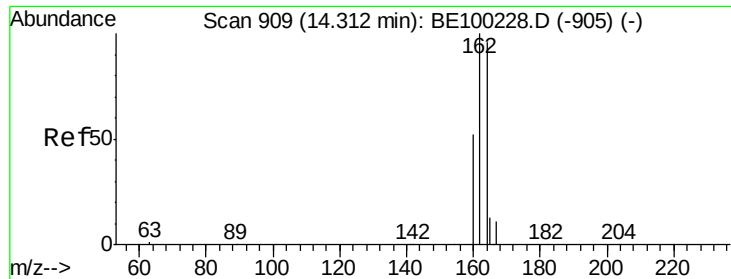
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#12
2-Methylnaphthalene
Concen: 0.029 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.2	72.4	108.6
115	73.6	40.4	60.6





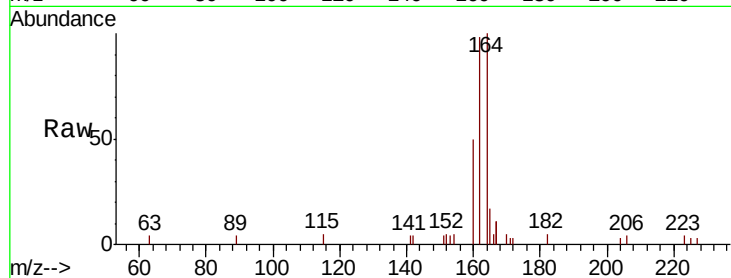
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 908
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.0	83.4	125.0
160	49.7	45.0	67.6

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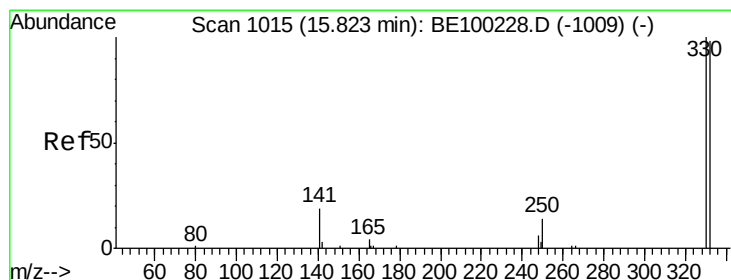
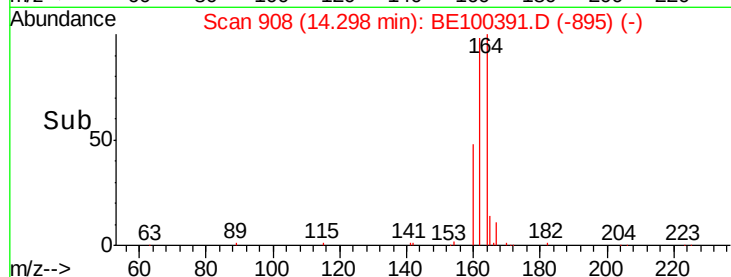
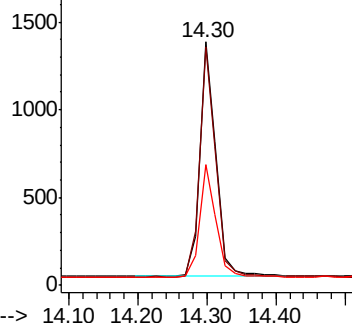


Abundance

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: 0.398 ng
RT: 15.80 min Scan# 1013
Delta R.T. -0.03 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

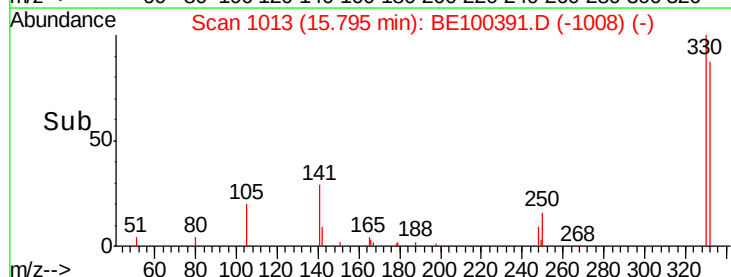
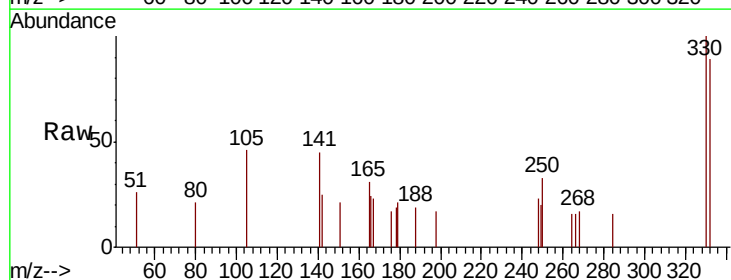
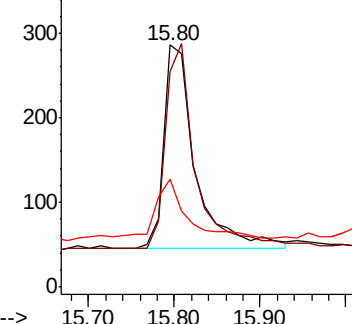
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.0	115.4
141	27.5	22.0	33.0

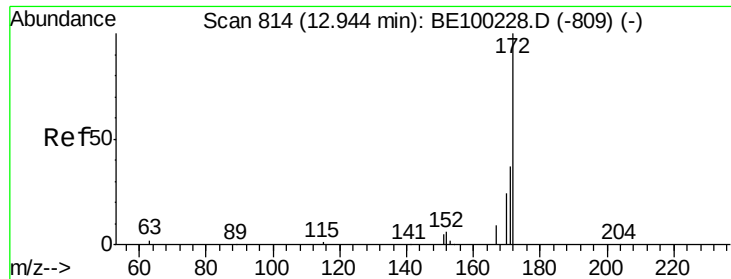
Abundance

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





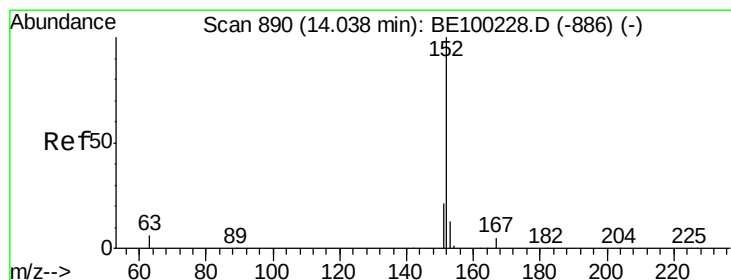
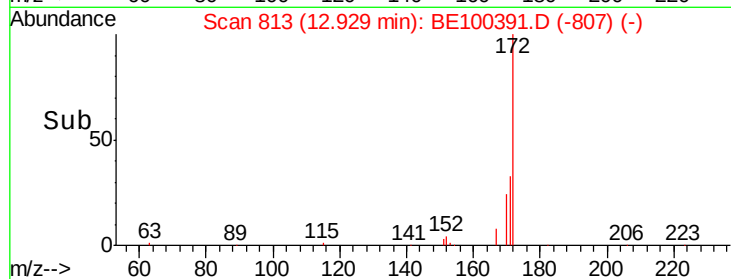
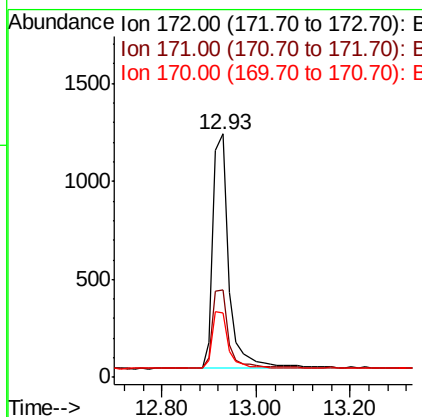
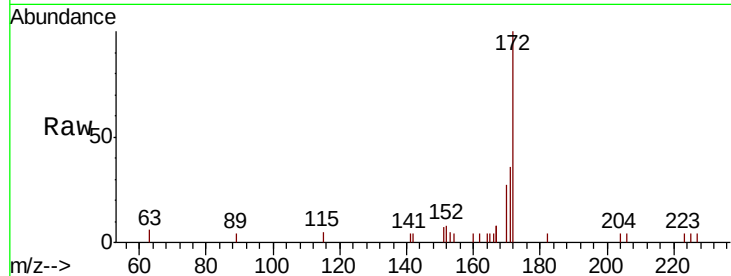
#15
2-Fluorobiphenyl
Concen: 0.334 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	31.9	47.9
170	26.7	22.2	33.2

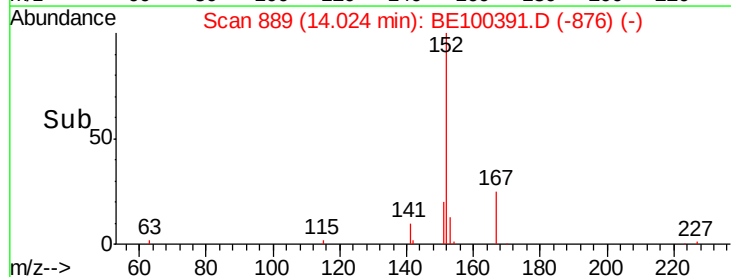
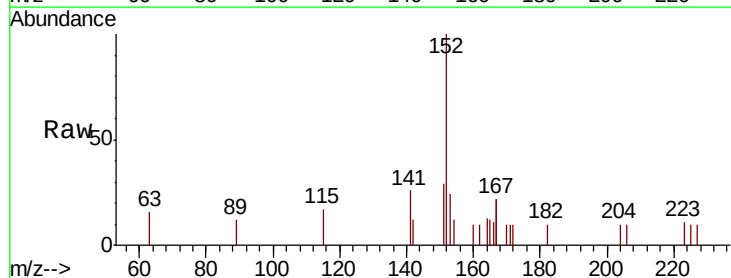
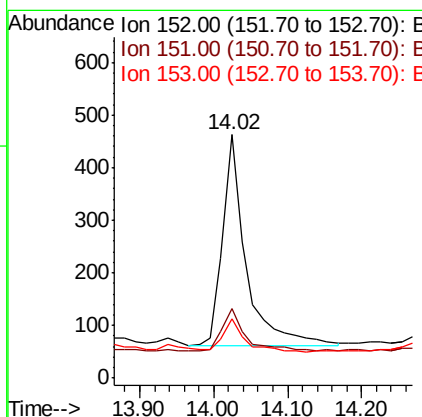
Manual Integrations
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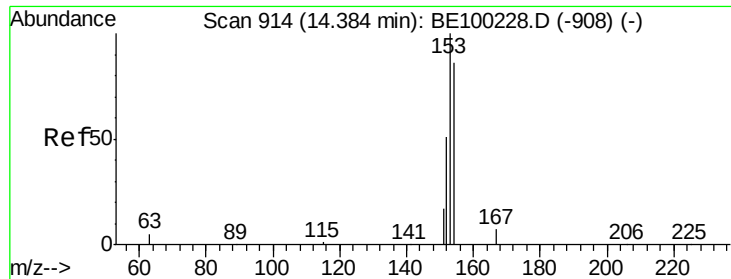
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#16
Acenaphthylene
Concen: 0.084 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0
153	14.5	10.5	15.7





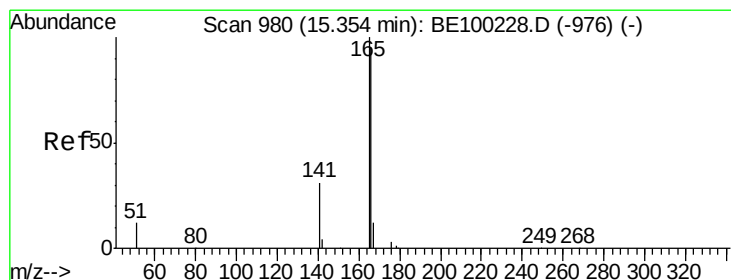
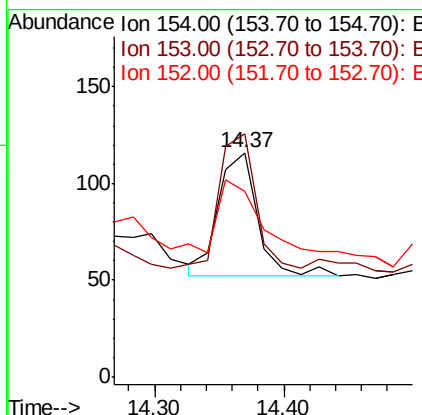
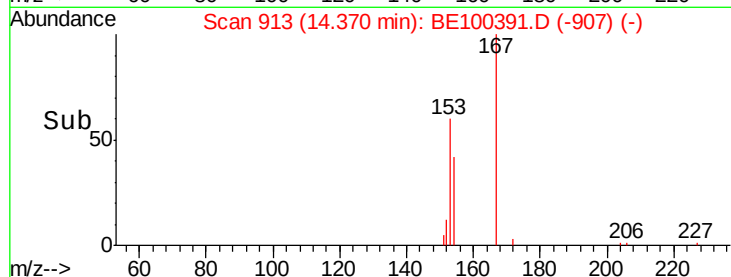
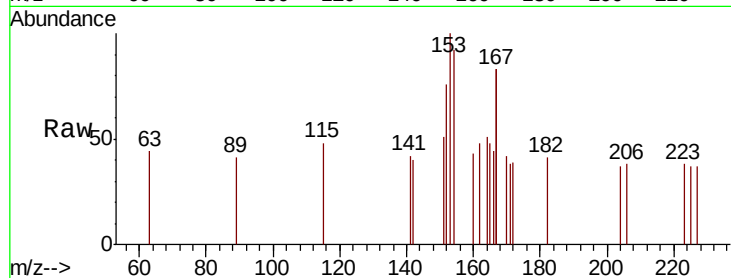
#17
Acenaphthene
Concen: 0.023 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
154	100		
153	100.0	93.4	140.2
152	68.7	49.4	74.2

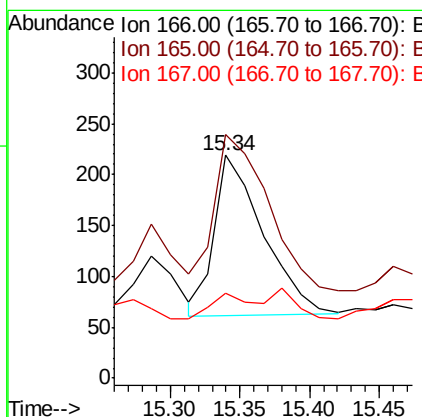
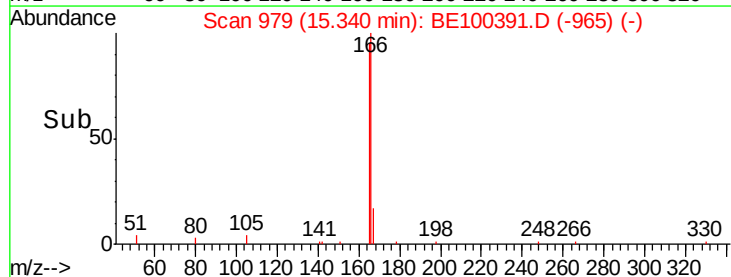
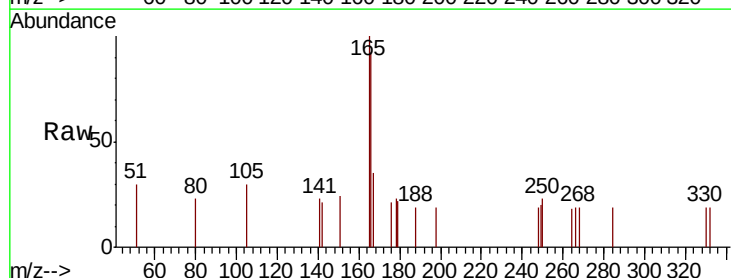
Manual Integrations
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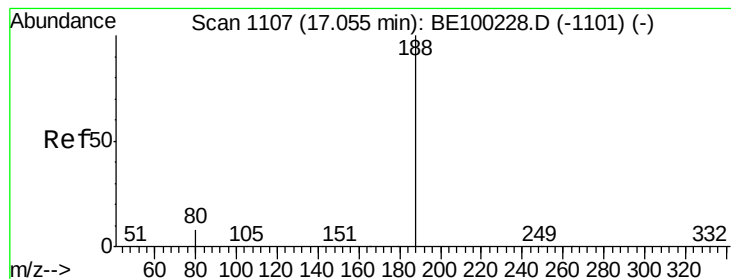
mohammad
7/8/2019 2:14:10 PM



#18
Fluorene
Concen: 0.043 ng
RT: 15.34 min Scan# 979
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	108.9	81.1	121.7
167	0.0	10.7	16.1#





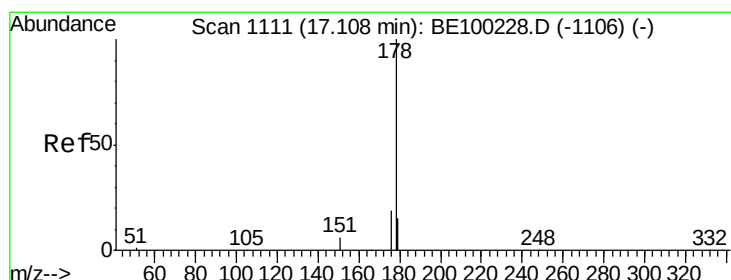
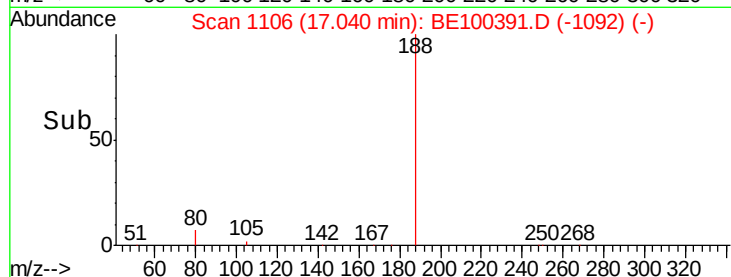
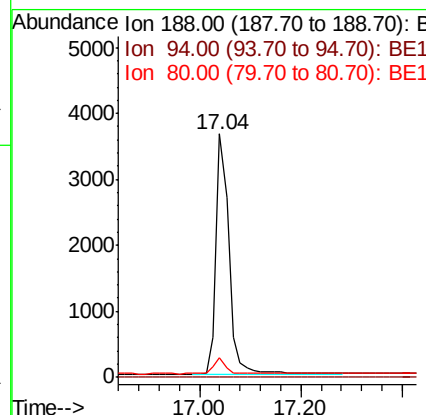
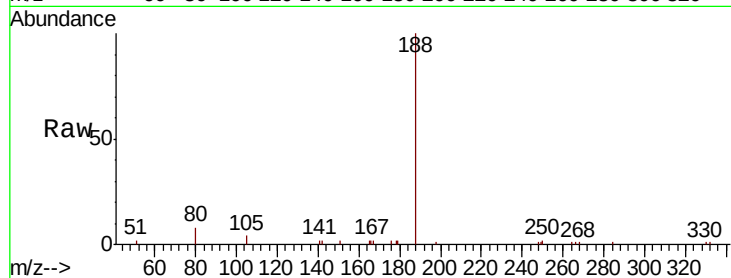
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.04 min Scan# 1106
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion:188	Resp: 6439
Ion Ratio	Lower Upper
188 100	
94 0.0	0.0 0.0
80 8.0	7.6 11.4

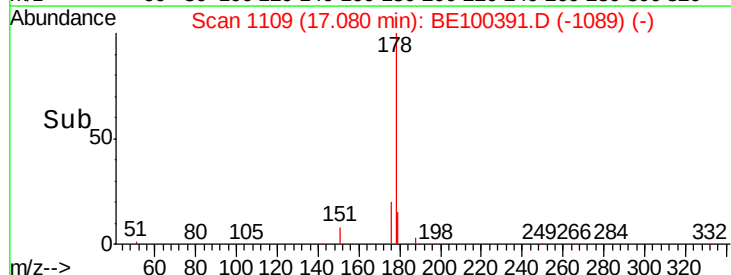
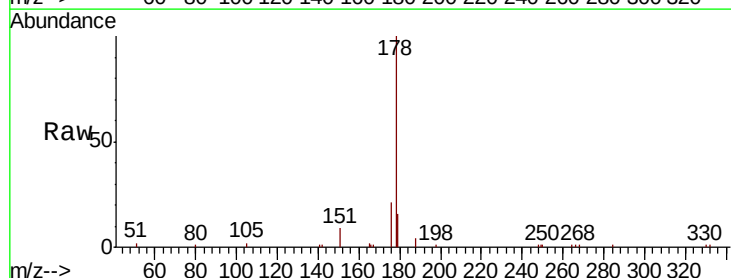
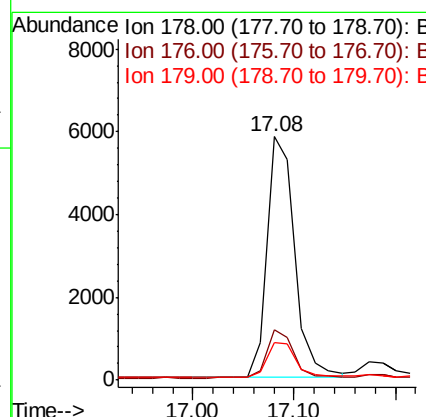
Manual Integrations
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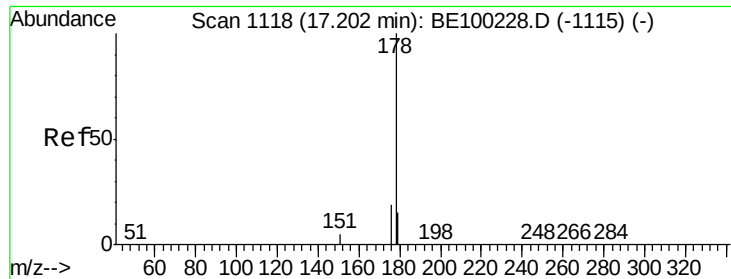
mohammad
7/8/2019 2:14:10 PM



#23
Phenanthrene
Concen: 0.710 ng
RT: 17.08 min Scan# 1109
Delta R.T. -0.03 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion:178	Resp: 11076
Ion Ratio	Lower Upper
178 100	
176 19.5	15.9 23.9
179 15.9	12.2 18.2





#24

Anthracene

Concen: 0.056 ng

RT: 17.17 min Scan# 1116

Delta R.T. -0.03 min

Lab File: BE100391.D

Acq: 5 Jul 2019 20:57

Instrument :

BNA_E

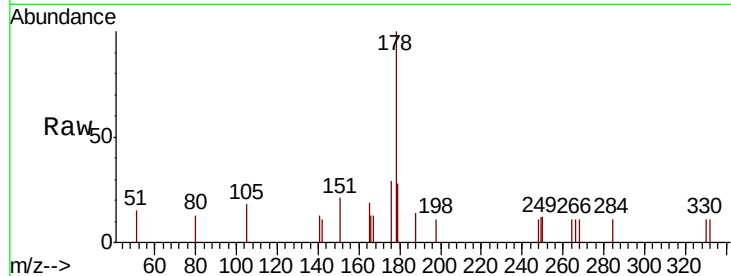
ClientSampleId :

EXT-009-SW134-062419

Tot Ion:	178	Resp:	780
Ion Ratio	Lower	Upper	
178	100		
176	16.7	15.3	22.9
179	0.0	12.2	18.2#

Manual Integrations
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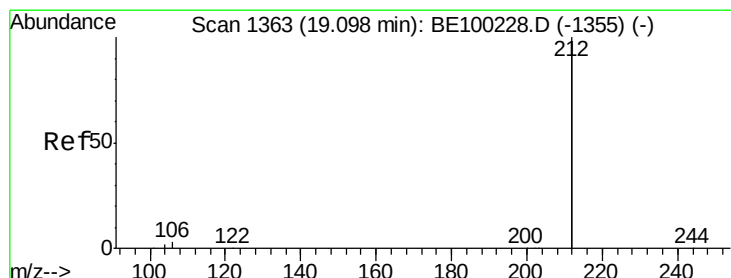
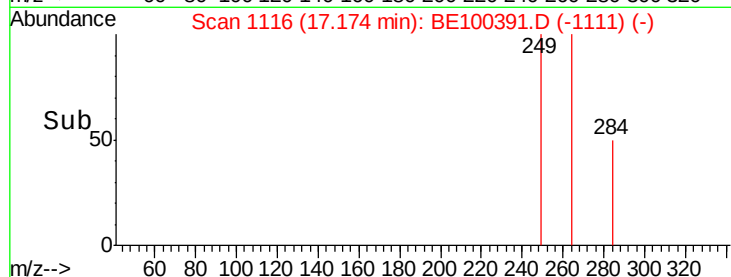
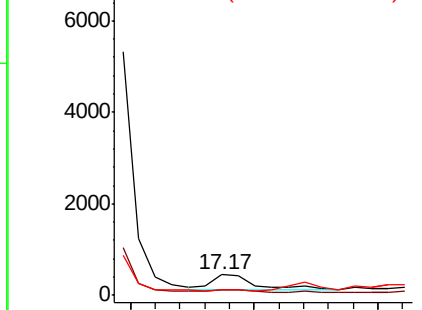
mohammad
7/8/2019 2:14:10 PM



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



#25

Fluoranthene-d10

Concen: 0.299 ng

RT: 19.08 min Scan# 1360

Delta R.T. -0.02 min

Lab File: BE100391.D

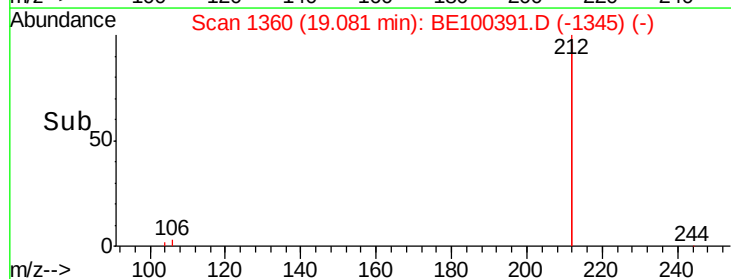
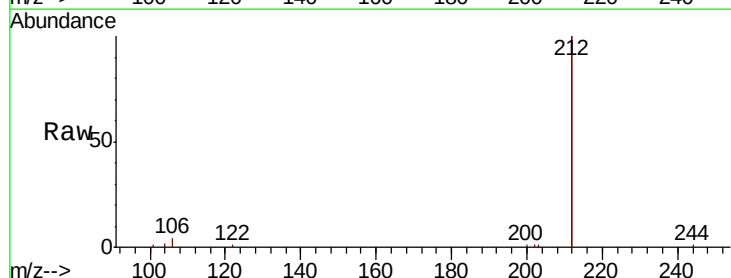
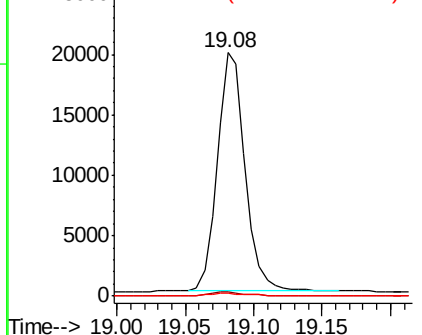
Acq: 5 Jul 2019 20:57

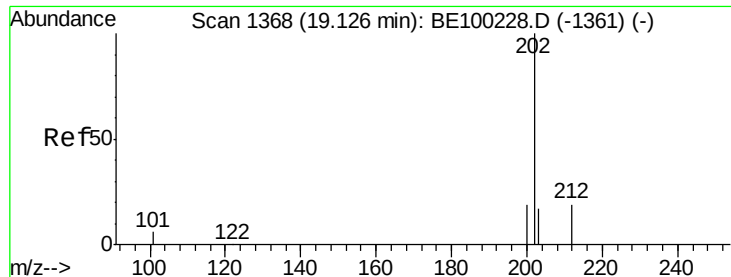
Tgt Ion:	212	Resp:	27961
Ion Ratio	Lower	Upper	
212	100		
106	1.6	1.3	1.9
104	1.0	0.8	1.2

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





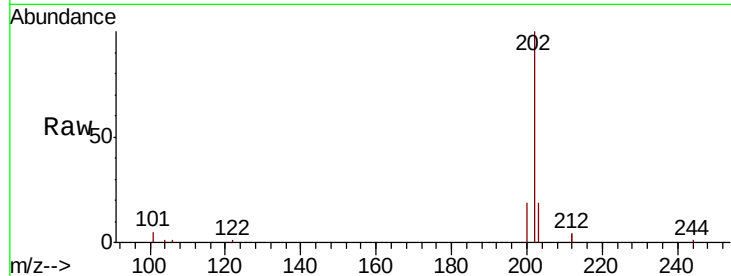
#26
Fluoranthene
Concen: 0.632 ng
RT: 19.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.4	4.6	7.0
203	18.1	13.7	20.5

Manual Integrations
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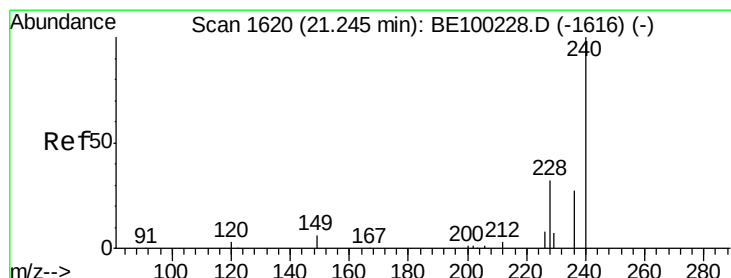
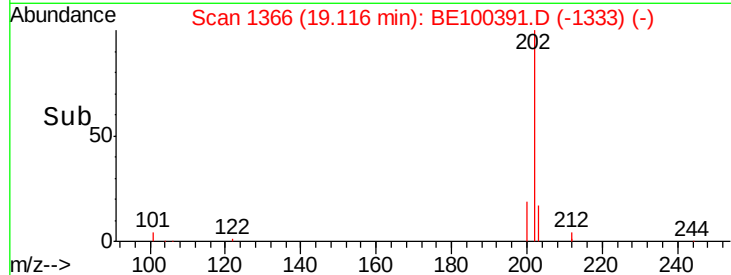
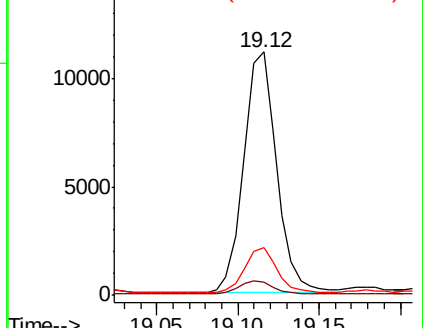


Abundance

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: 21.23 min Scan# 1619
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

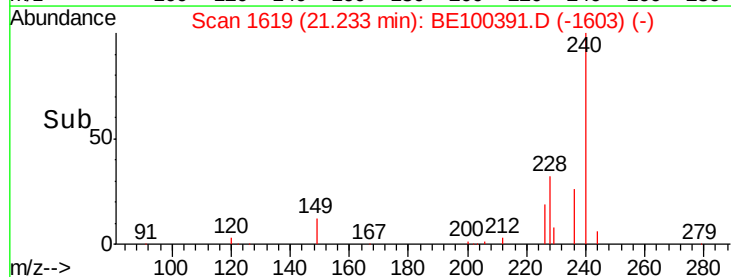
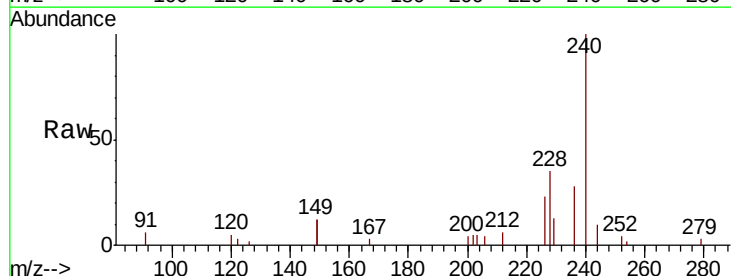
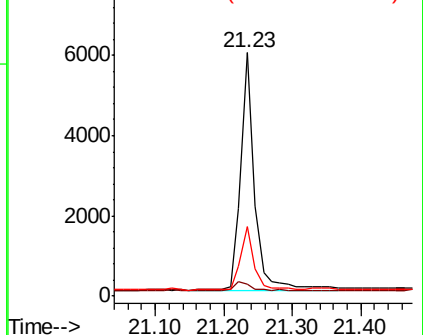
Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.7	3.3	4.9
236	28.5	22.6	34.0

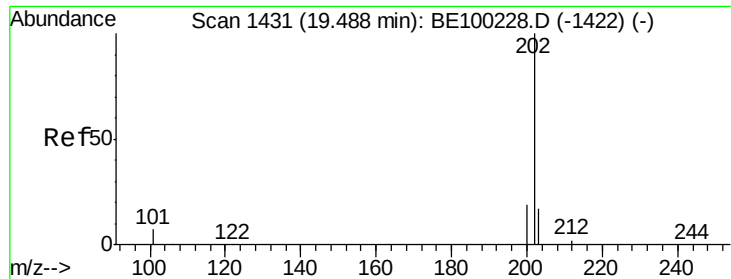
Abundance

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





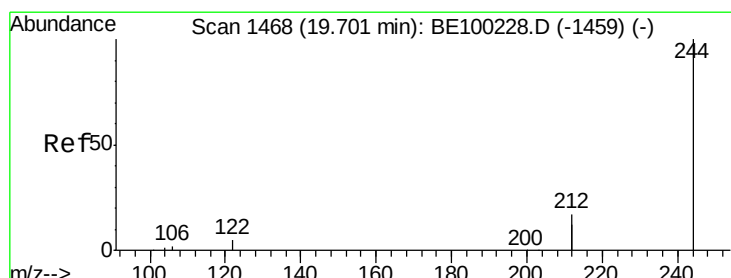
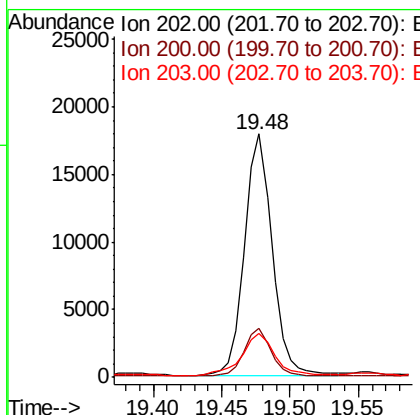
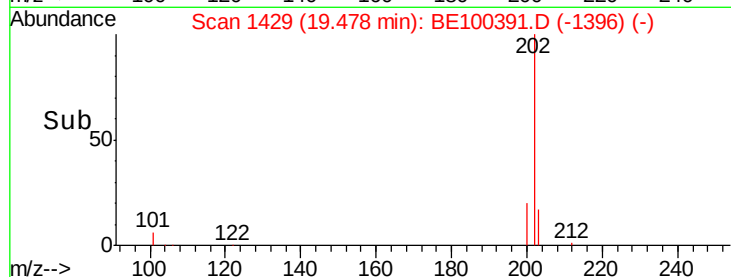
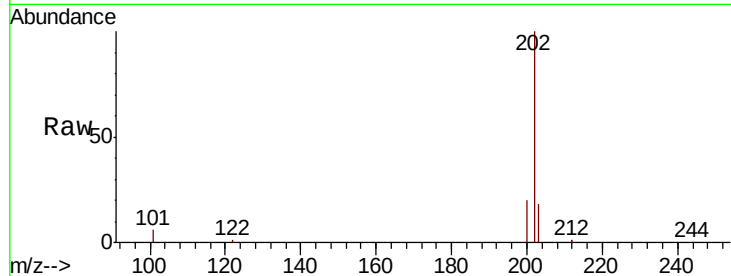
#28
Pvrene
Concen: 1.108 ng
RT: 19.48 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.5	15.6	23.4
203	20.4	14.0	21.0

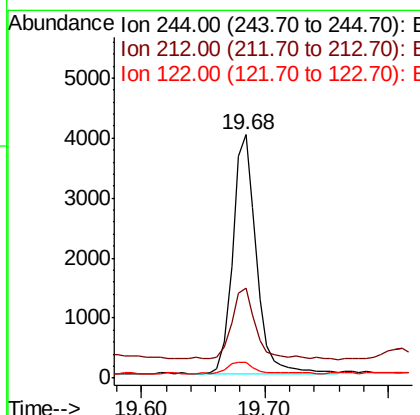
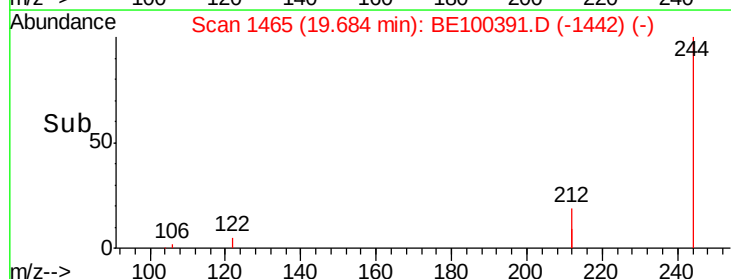
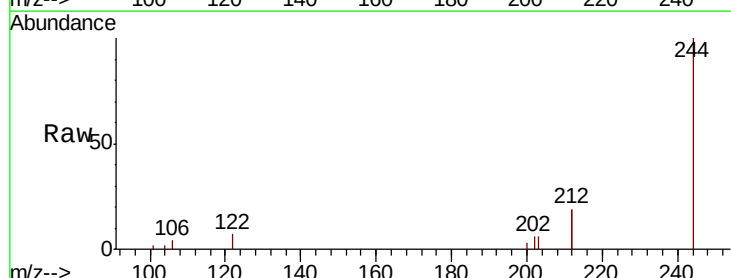
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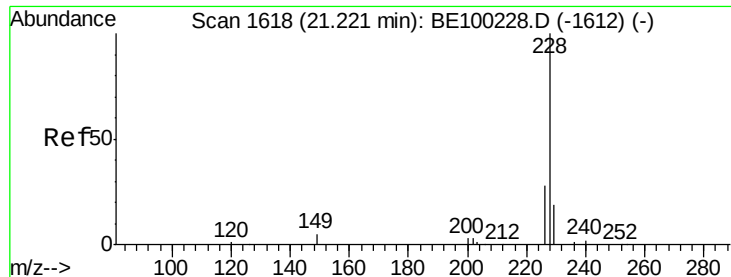
mohammad
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#29
Terphenyl-d14
Concen: 0.301 ng
RT: 19.68 min Scan# 1465
Delta R.T. -0.02 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
244	100		
212	37.1	27.3	40.9
122	6.5	4.7	7.1





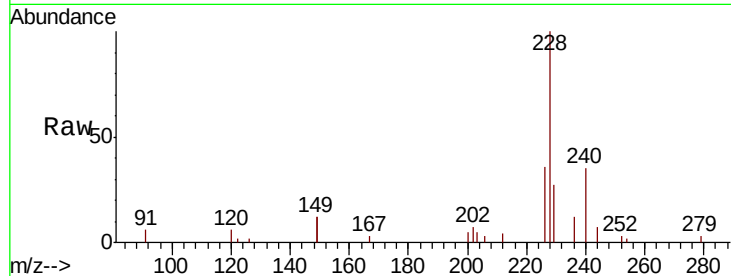
#30
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.1	23.2	34.8#
229	27.1	15.7	23.5#

Manual Integrations
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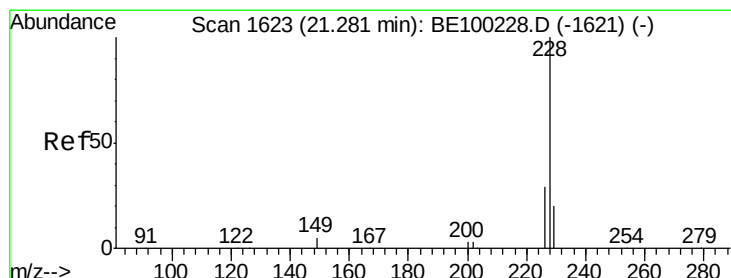
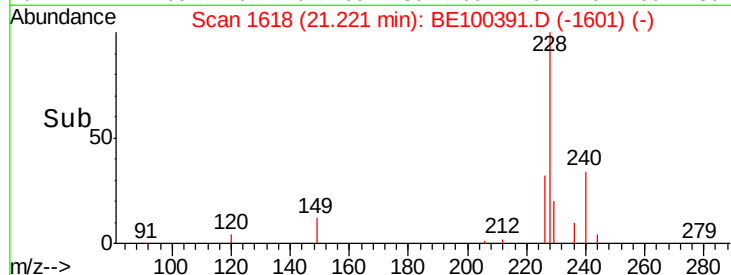
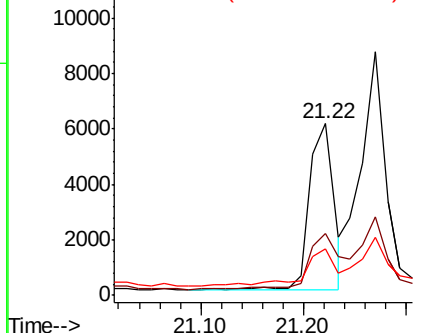


Abundance

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: 0.509 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

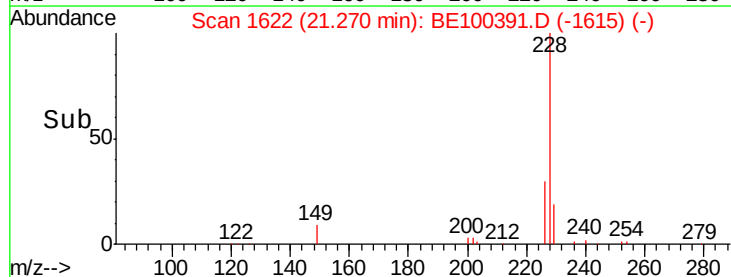
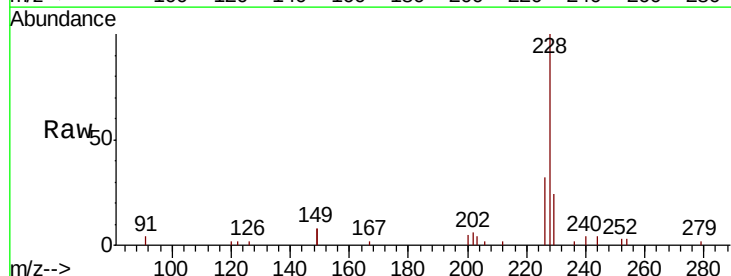
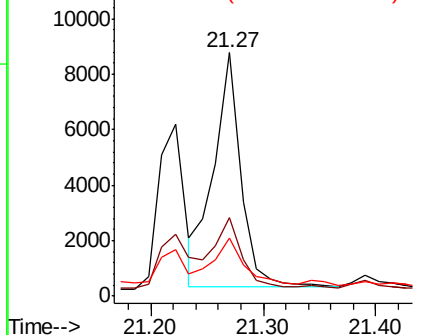
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	23.9	35.9
229	23.8	16.5	24.7

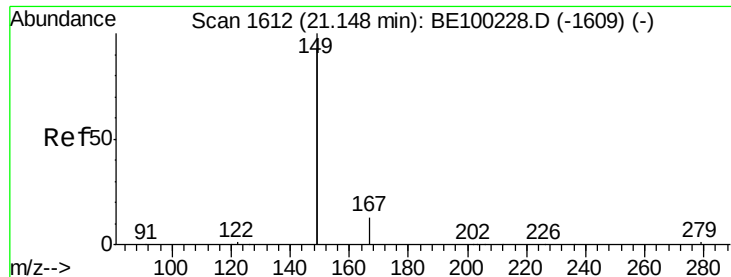
Abundance

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





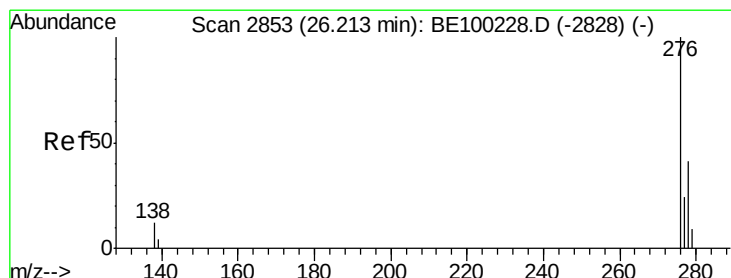
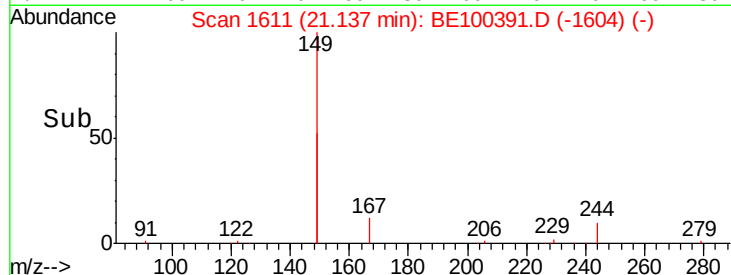
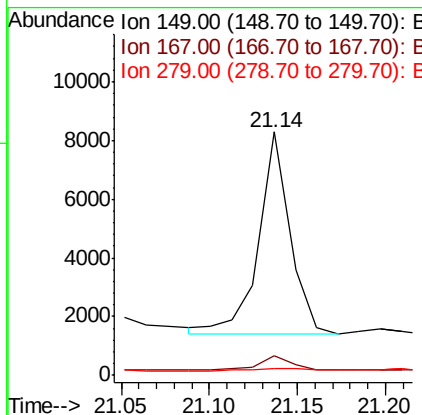
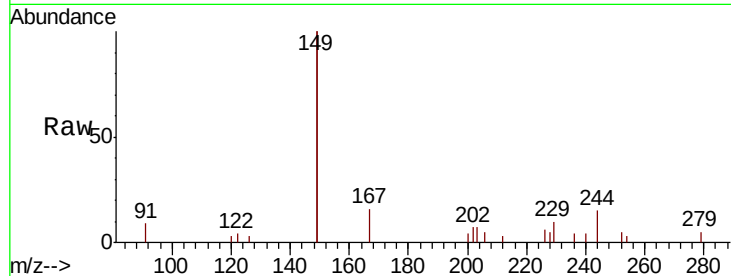
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.157 ng
 RT: 21.14 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BE100391.D
 Acq: 5 Jul 2019 20:57

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
149	100		
167	7.6	5.8	8.8
279	2.3	1.1	1.7#

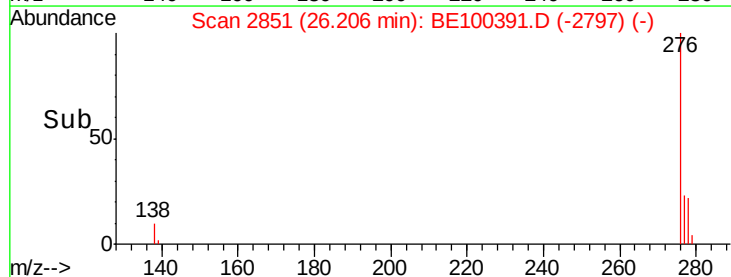
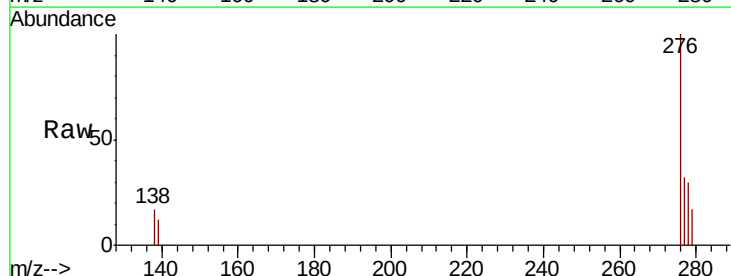
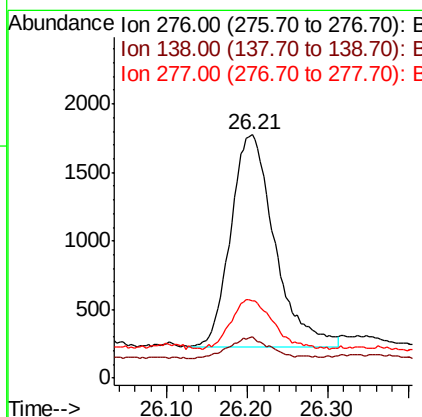
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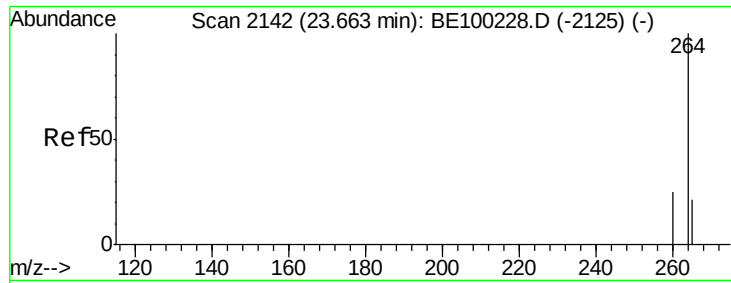
mohammad
 7/8/2019 2:14:10 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.158 ng
 RT: 26.21 min Scan# 2851
 Delta R.T. -0.01 min
 Lab File: BE100391.D
 Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.8	9.4	14.0
277	22.4	19.2	28.8





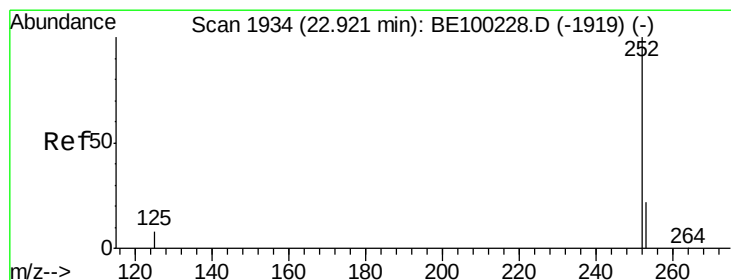
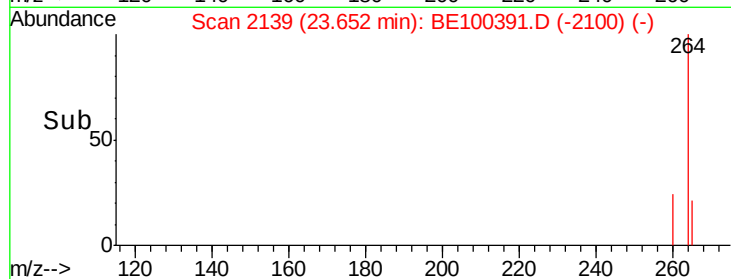
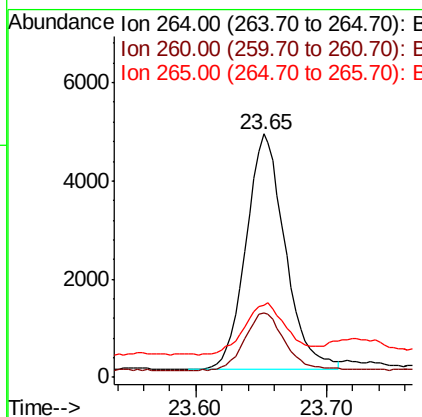
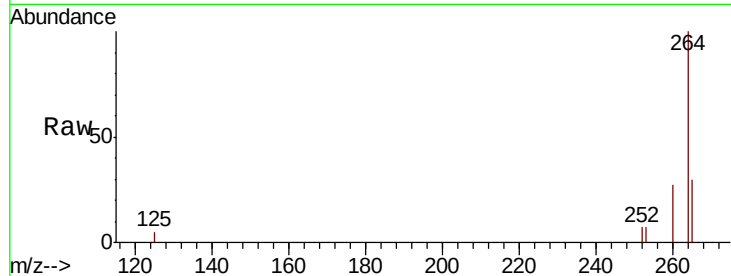
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.65 min Scan# 2139
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.8	31.2
265	29.5	21.8	32.6

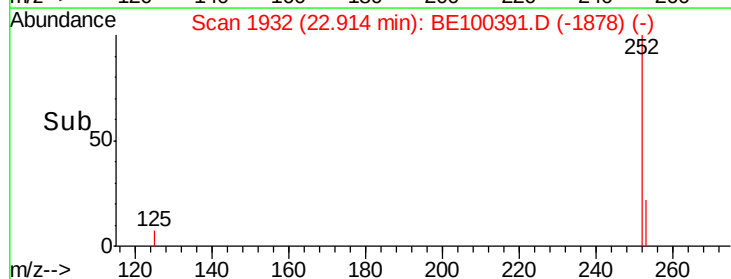
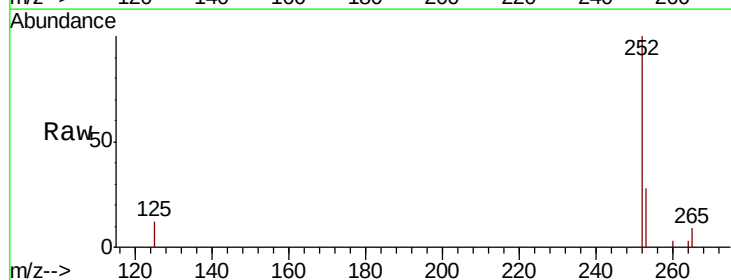
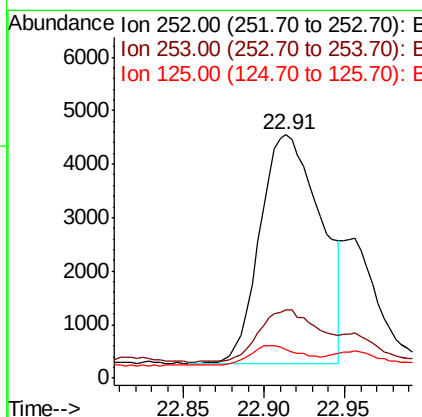
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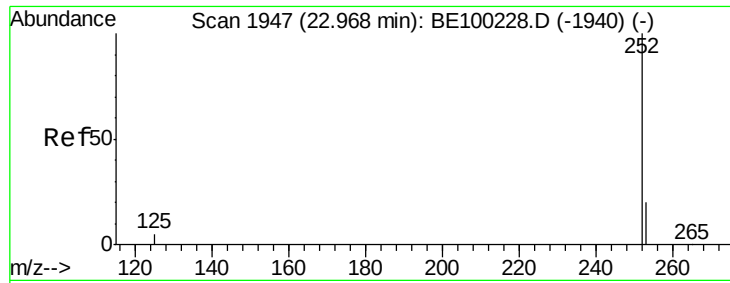
mohammad
7/8/2019 2:14:10 PM



#35
Benzo(b)fluoranthene
Concen: 0.417 ng
RT: 22.91 min Scan# 1932
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.8	19.2	28.8
125	11.9	7.4	11.0





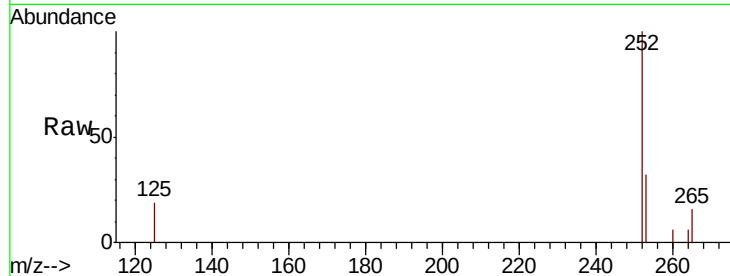
#36
Benzo(k)fluoranthene
Concen: 0.125 ng m
RT: 22.96 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
252	100		
253	32.2	17.9	26.9#
125	19.2	5.0	7.4#

Manual Integrations
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mohammad
7/8/2019 2:14:10 PM

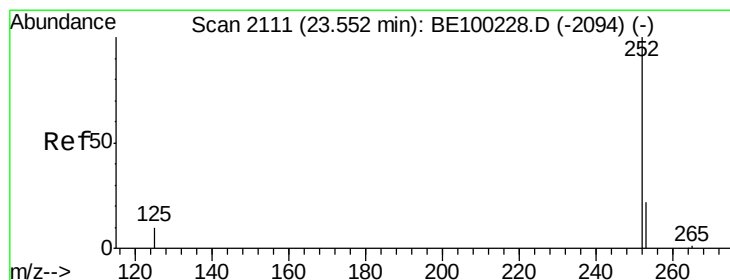
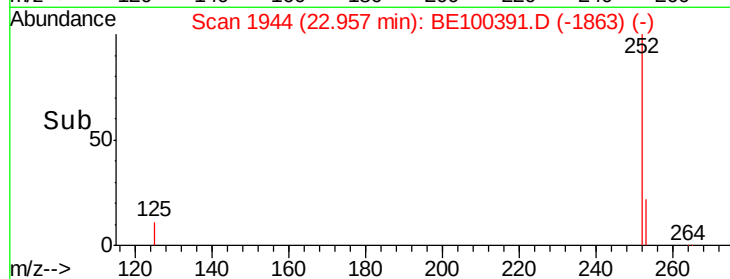
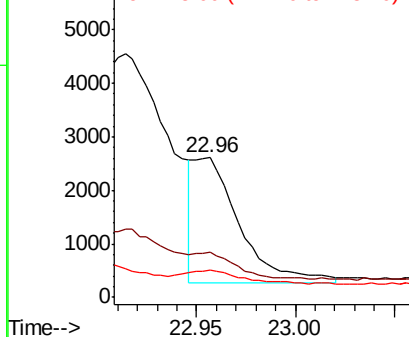


Abundance

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: 0.329 ng m
RT: 23.54 min Scan# 2109
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

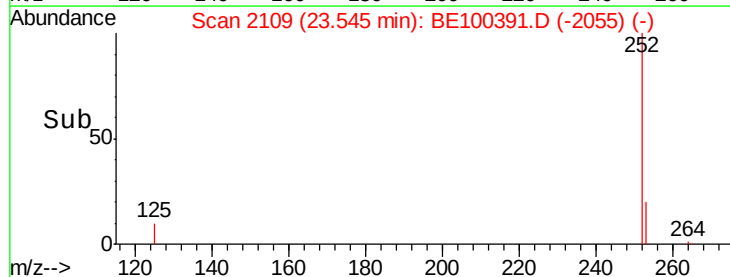
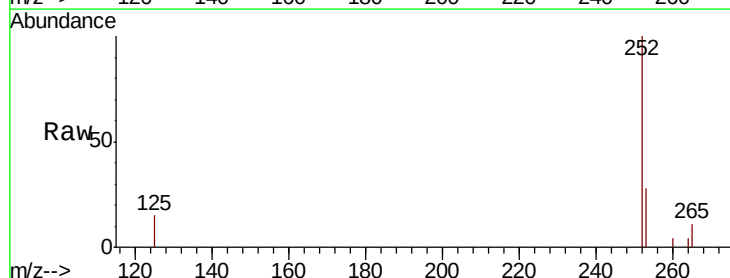
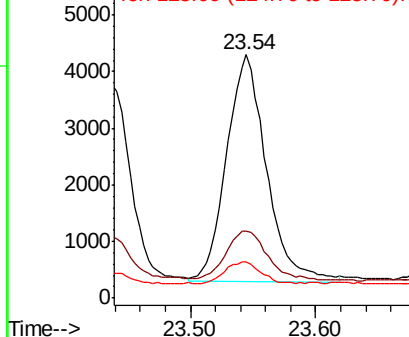
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	19.6	29.4
125	14.9	9.0	13.6#

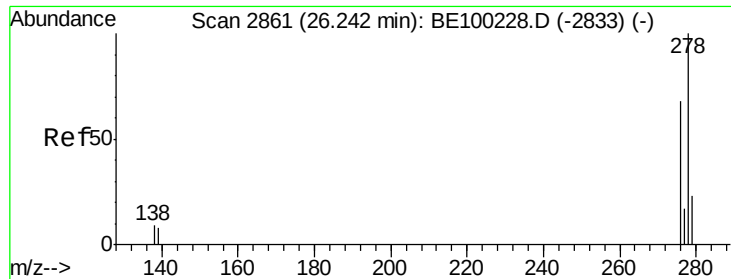
Abundance

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





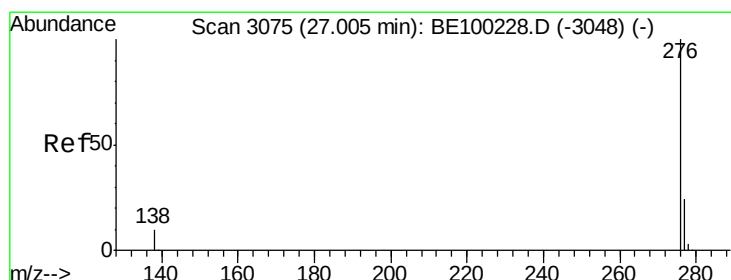
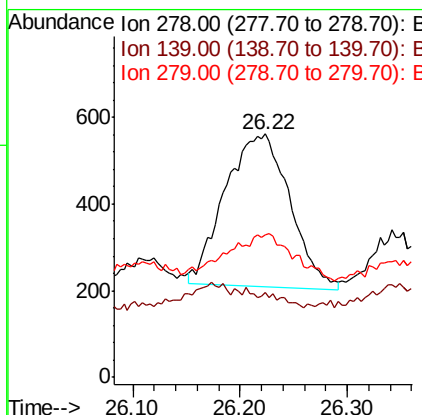
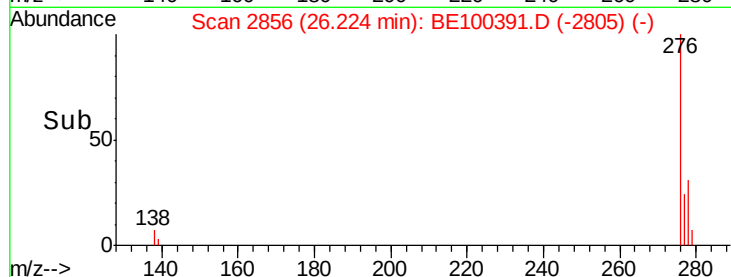
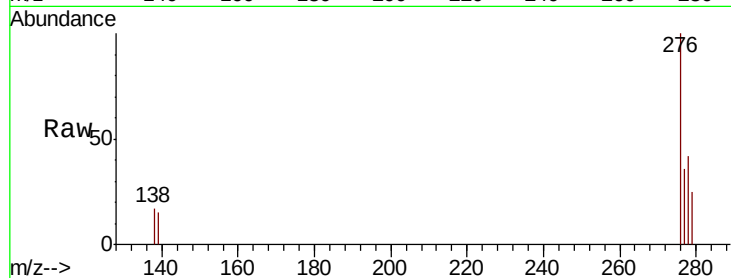
#38
Dibenzo(a,h)anthracene
Concen: 0.052 ng
RT: 26.22 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW134-062419

Tot Ion	Ratio	Lower	Upper
278	100		
139	34.7	8.2	12.2#
279	58.4	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/8/2019 2:14:10 PM



#39
Benzo(g,h,i)perylene
Concen: 0.238 ng
RT: 26.99 min Scan# 3072
Delta R.T. -0.01 min
Lab File: BE100391.D
Acq: 5 Jul 2019 20:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	30.3	20.2	30.2#
138	14.9	9.0	13.6#

