

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE112118\
 Data File : BE098257.D
 Acq On : 21 Nov 2018 11:35
 Operator : SJ/JU
 Sample : J5996-05 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 AOC8-01R-A

Manual Integrations
 APPROVED

mohammad
 11/23/2018 11:47:25 AM

Quant Time: Nov 22 00:08:12 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 16 19:05:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	1518	0.40	ng	0.00
7) Naphthalene-d8	10.68	136	7143	0.40	ng	0.01
13) Acenaphthene-d10	14.54	164	4710	0.40	ng	0.01
19) Phenanthrene-d10	17.28	188	10474	0.40	ng	0.00
27) Chrysene-d12	21.46	240	11583	0.40	ng	0.00
34) Perylene-d12	24.01	264	11131	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	140	0.03	ng	0.00
5) Phenol-d6	7.04	99	232	0.04	ng	0.00
8) Nitrobenzene-d5	9.04	82	210	0.03	ng	0.03
11) 2-Methylnaphthalene-d10	12.27	152	412	0.03	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	73	0.05	ng	0.00
15) 2-Fluorobiphenyl	13.16	172	568	0.03	ng	0.01
25) Fluoranthene-d10	19.32	212	3667	0.03	ng	0.00
29) Terphenyl-d14	19.91	244	914	0.03	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.72	128	8931	0.123	ng	# 97
12) 2-Methylnaphthalene	12.35	142	1858	0.145	ng	92
16) Acenaphthylene	14.25	152	12838	0.573	ng	96
17) Acenaphthene	14.60	154	1559	0.116	ng	97
18) Fluorene	15.58	166	3629	0.213	ng	# 92
23) Phenanthrene	17.33	178	35103	1.303	ng	99
24) Anthracene	17.41	178	11881	0.485	ng	98
26) Fluoranthene	19.34	202	111159	3.437	ng	99
28) Pyrene	19.70	202	109421	3.232	ng	97
30) Benzo(a)anthracene	21.45	228	76671	2.288	ng	95
31) Chrysene	21.50	228	67549	1.959	ng	98
32) Bis(2-ethylhexyl)phthalate	21.37	149	5246	0.100	ng	# 95
33) Indeno(1,2,3-cd)pyrene	26.70	276	46284	1.568	ng	# 93
35) Benzo(b)fluoranthene	23.23	252	95533	3.039	ng	98
36) Benzo(k)fluoranthene	23.28	252	36478m	1.028	ng	
37) Benzo(a)pyrene	23.89	252	69854	2.263	ng	# 98
38) Dibenzo(a,h)anthracene	26.72	278	11400	0.461	ng	# 91
39) Benzo(a,h,i)perylene	27.53	276	45751	1.717	ng	98

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

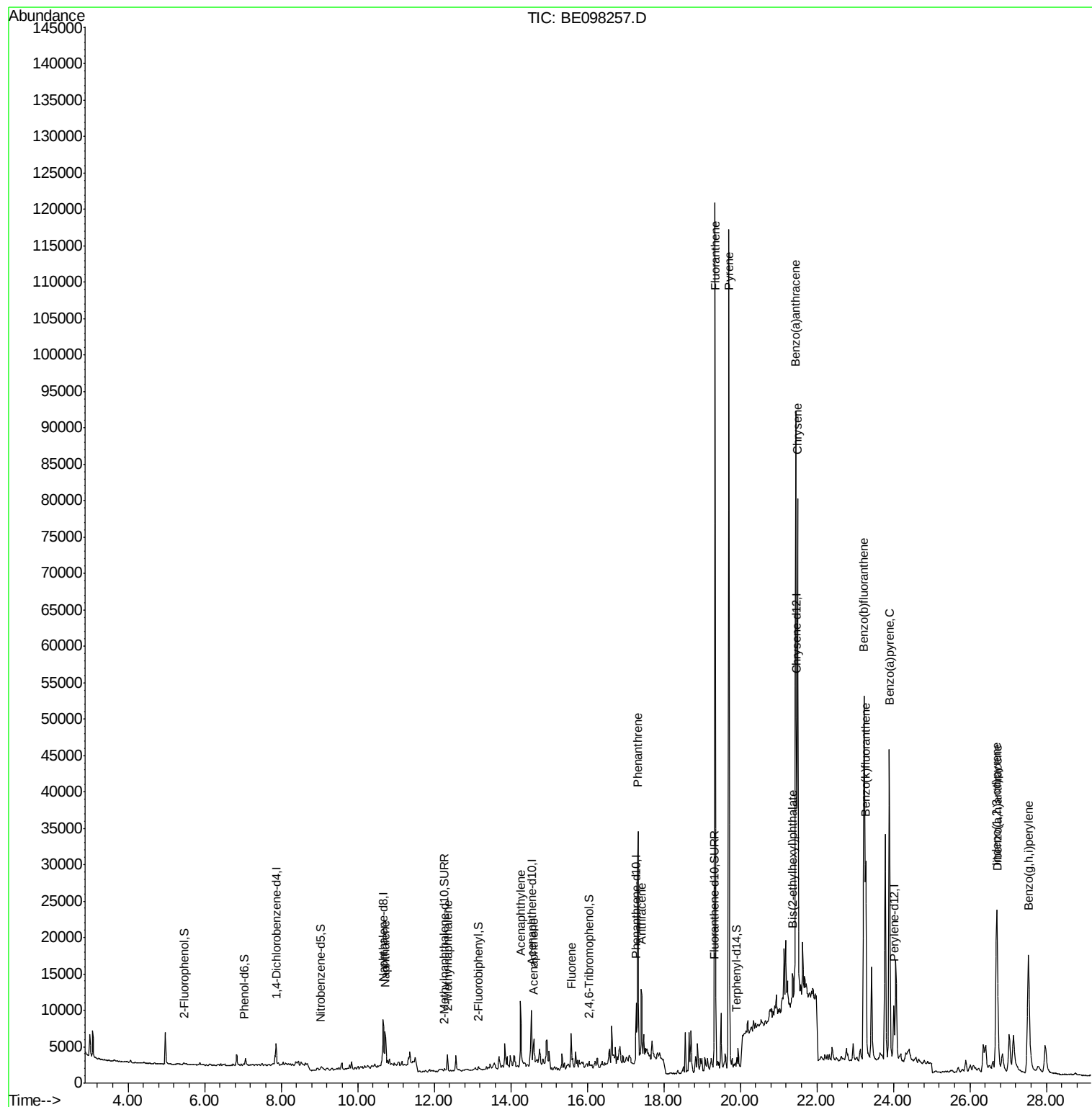
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE112118\
Data File : BE098257.D
Acq On : 21 Nov 2018 11:35
Operator : SJ/JU
Sample : J5996-05 10X
Misc :
ALS Vial : 5 Sample Multiplier: 1

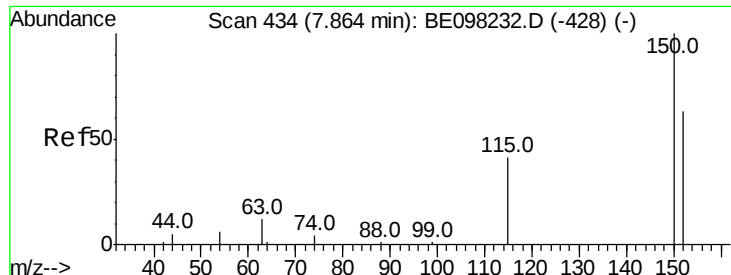
Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM

Quant Time: Nov 22 00:08:12 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 16 19:05:33 2018
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.87 min Scan# 435

Delta R.T. 0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

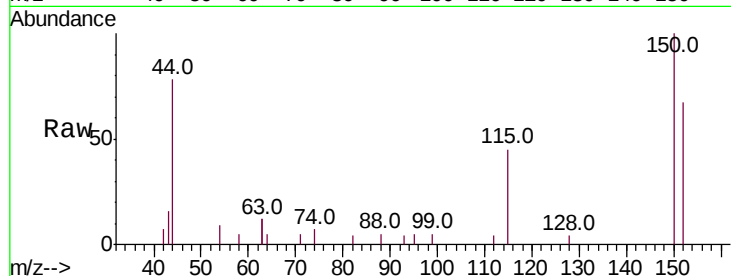
ClientSampleId :

AOC8-01R-A

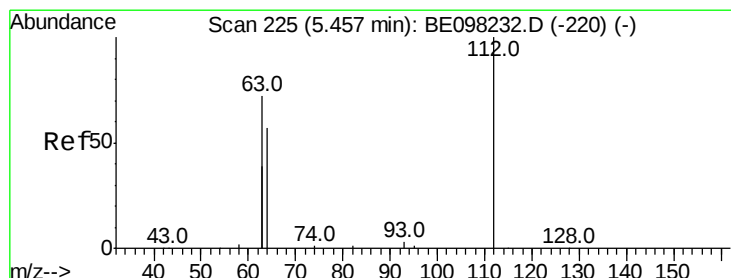
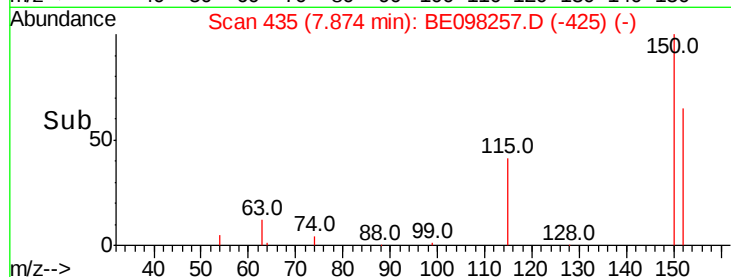
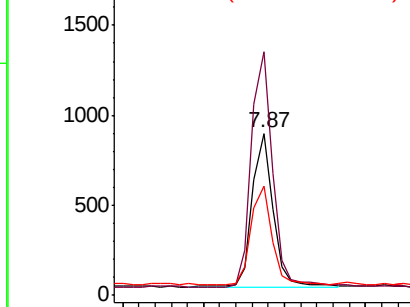
Tot Ion:	152	Resp:	1518
Ion	Ratio	Lower	Upper
152	100		
150	150.2	127.5	191.3
115	67.0	60.3	90.5

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



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: 0.034 ng

RT: 5.46 min Scan# 225

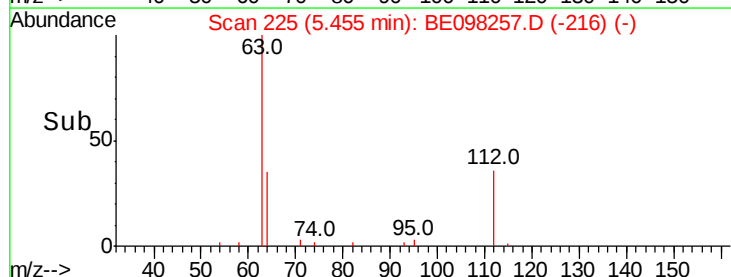
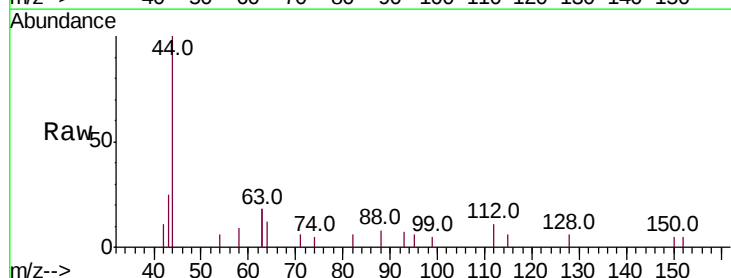
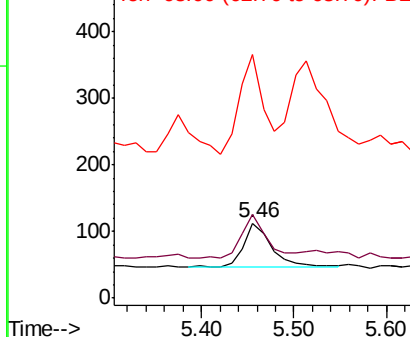
Delta R.T. -0.00 min

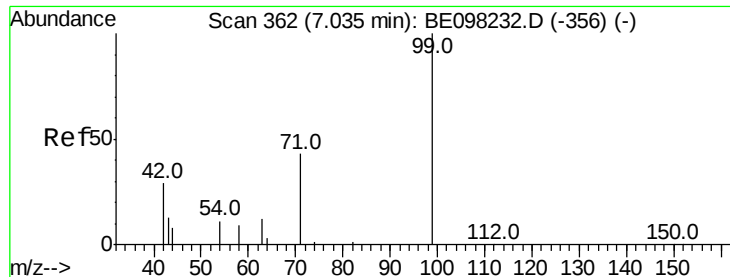
Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion:	112	Resp:	140
Ion	Ratio	Lower	Upper
112	100		
64	88.6	61.7	92.5
63	191.4	136.2	204.2

Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.036 ng

RT: 7.04 min Scan# 363

Delta R.T. 0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

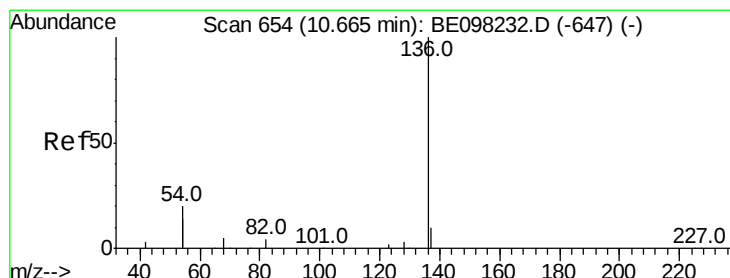
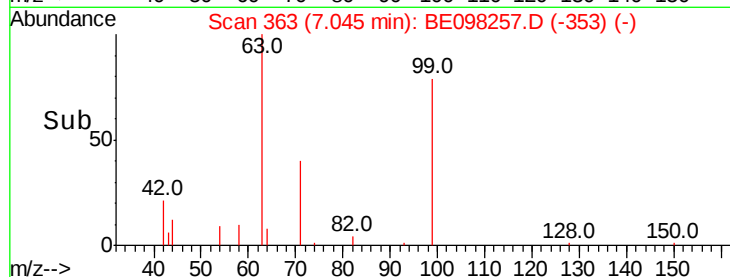
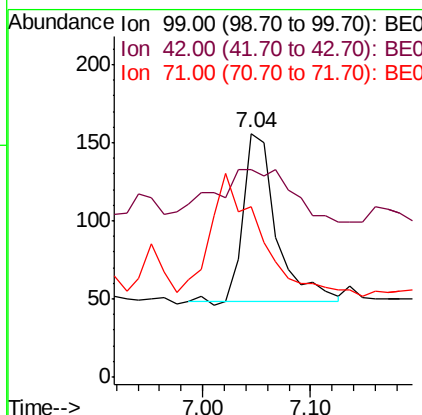
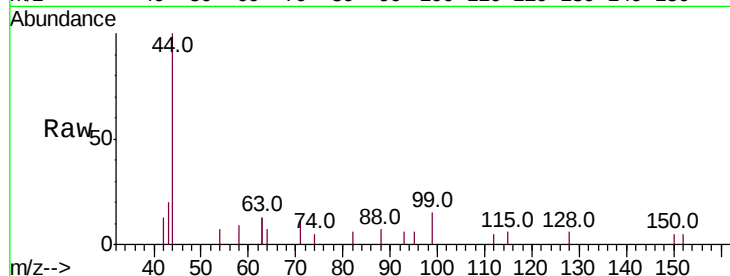
ClientSampleID :

AOC8-01R-A

Tot Ion:	99	Resp:	232
Ion Ratio	Lower	Upper	
99	100		
42	0.0	27.1	40.7#
71	0.0	37.0	55.6#

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



#7

Naphthalene-d8

Concen: 0.400 ng

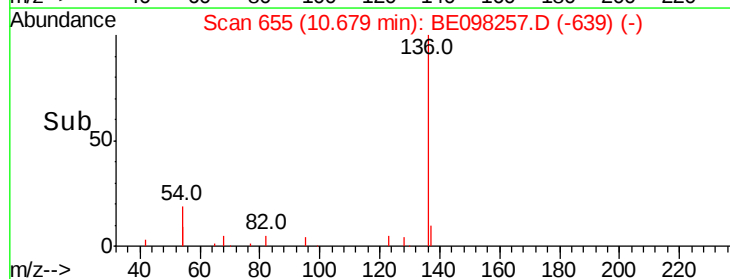
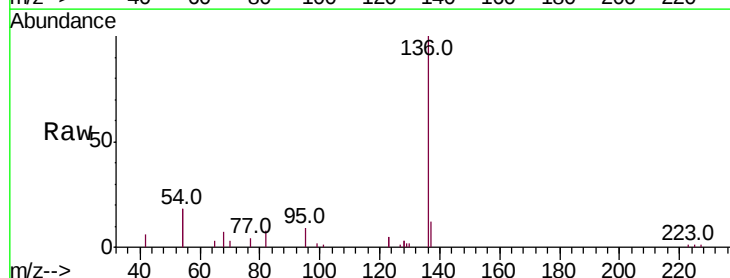
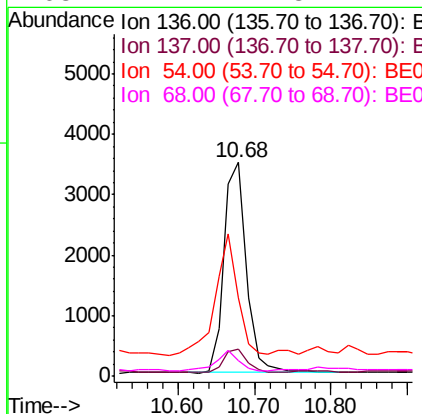
RT: 10.68 min Scan# 655

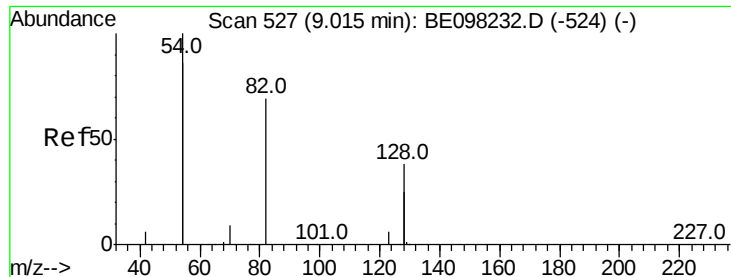
Delta R.T. 0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion:	136	Resp:	7143
Ion Ratio	Lower	Upper	
136	100		
137	12.4	9.5	14.3
54	36.7	31.3	46.9
68	7.4	4.8	7.2#





#8

Nitrobenzene-d5

Concen: 0.031 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.03 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

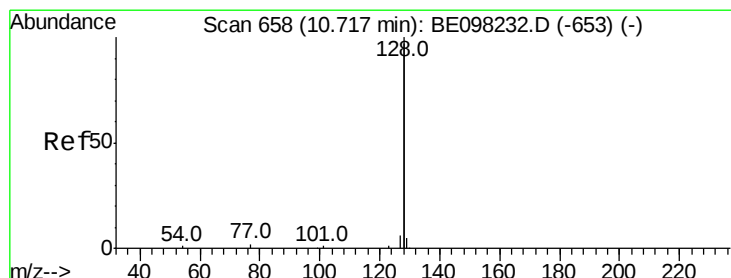
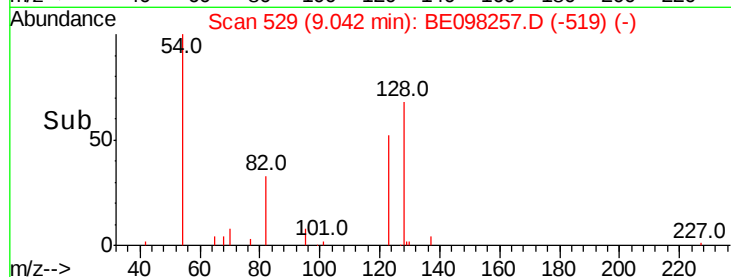
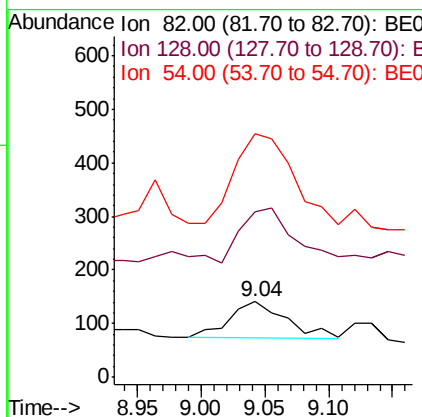
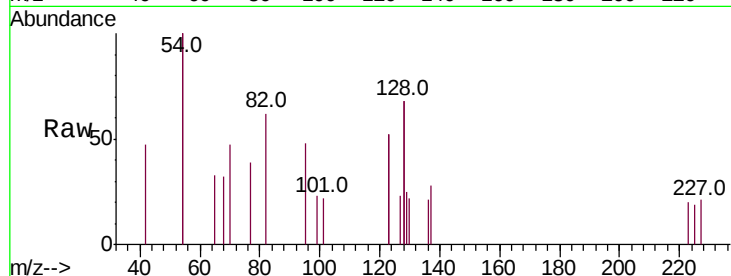
ClientSampleId :

AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	218.4	96.1	144.1#
54	322.0	232.0	348.0

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



#9

Naphthalene

Concen: 0.123 ng

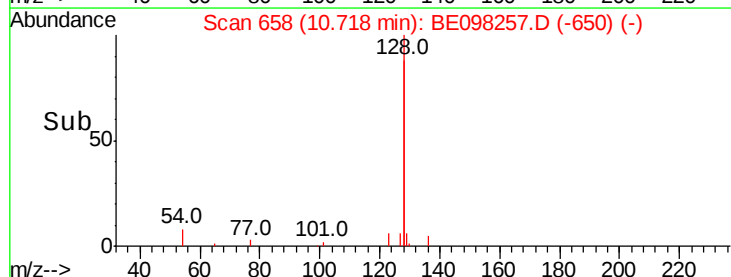
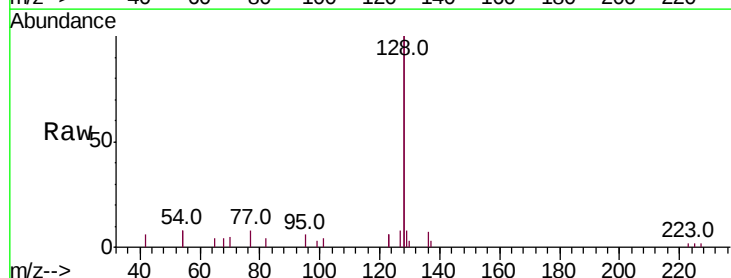
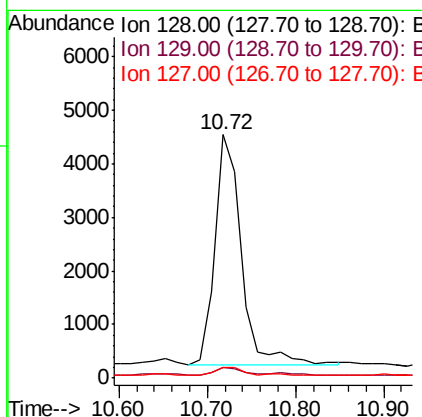
RT: 10.72 min Scan# 658

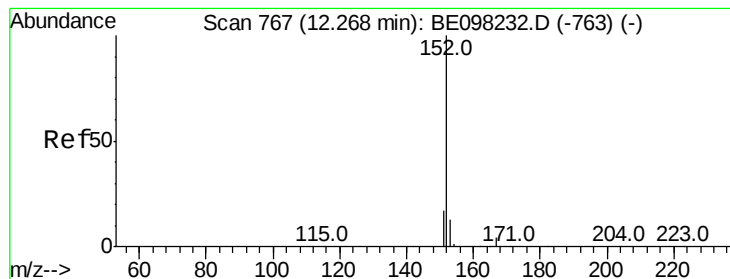
Delta R.T. 0.00 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	4.2	2.6	4.0#
127	4.2	2.8	4.2#





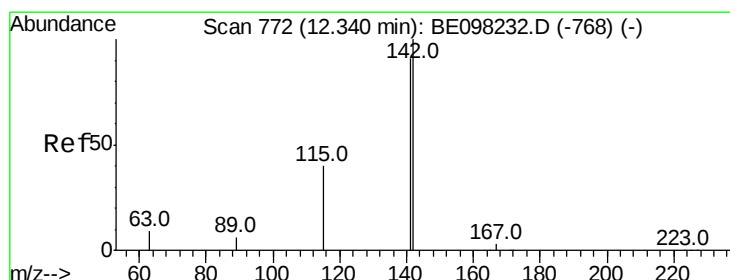
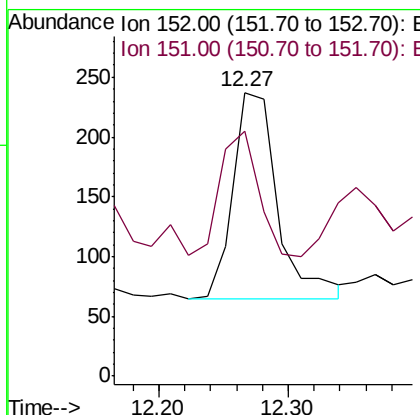
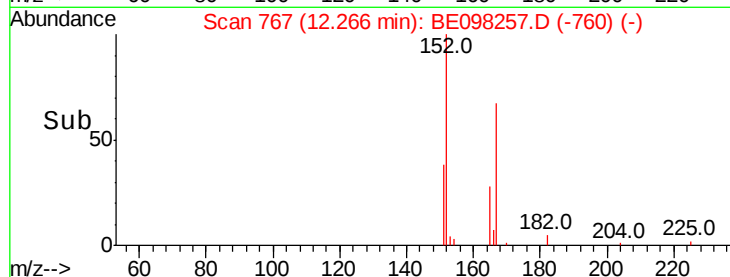
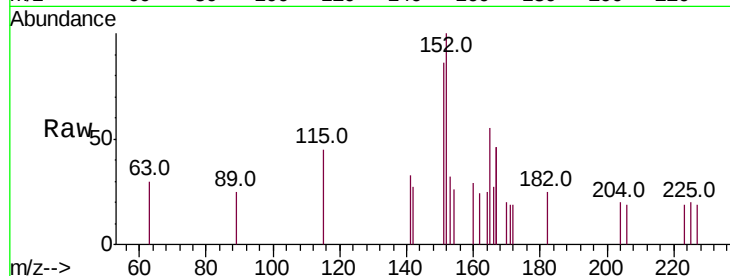
#11
2-Methylnaphthalene-d10
Concen: 0.033 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion:152 Resp: 412
Ion Ratio Lower Upper
152 100
151 51.5 15.4 23.2#

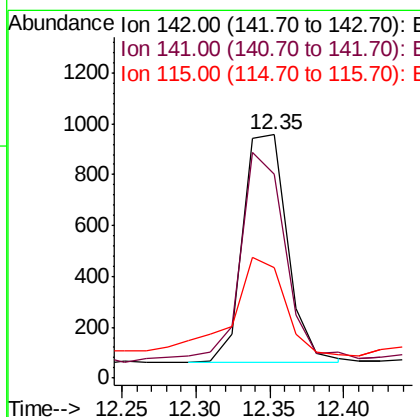
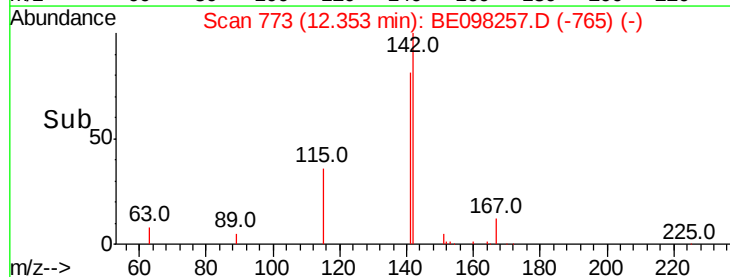
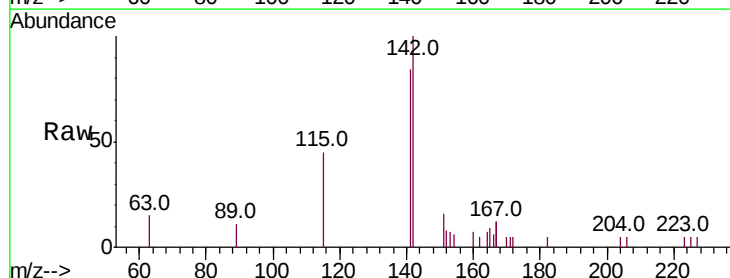
Manual Integrations
APPROVED

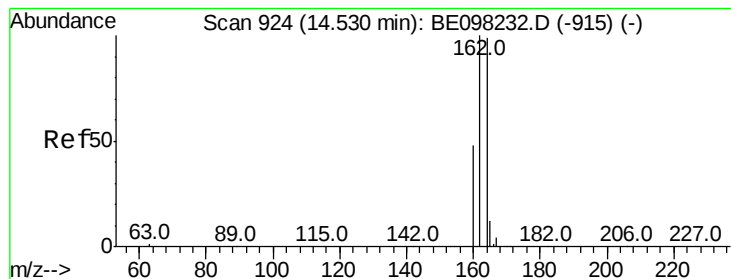
mohammad
11/23/2018 11:47:25 AM



#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 12.35 min Scan# 773
Delta R.T. 0.01 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion:142 Resp: 1858
Ion Ratio Lower Upper
142 100
141 83.7 76.3 114.5
115 45.2 35.8 53.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

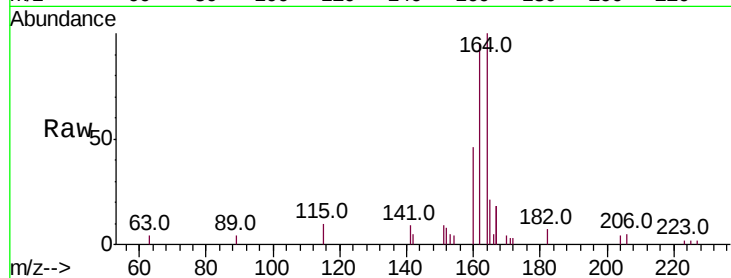
ClientSampleId :

AOC8-01R-A

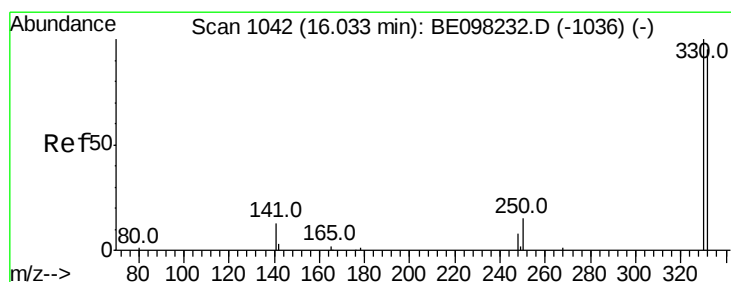
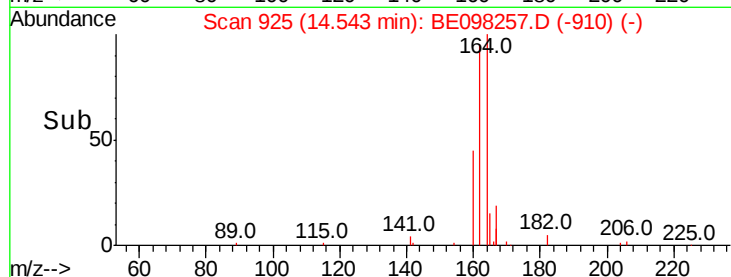
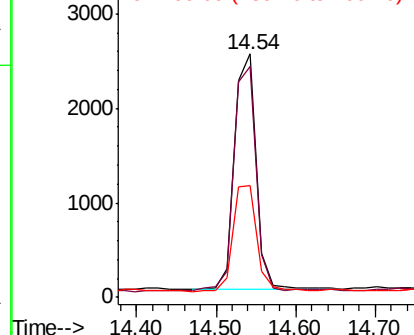
Tot Ion:	164	Resp:	4710
Ion	Ratio	Lower	Upper
164	100		
162	94.9	81.8	122.6
160	45.9	39.4	59.0

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



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: 0.048 ng

RT: 16.03 min Scan# 1042

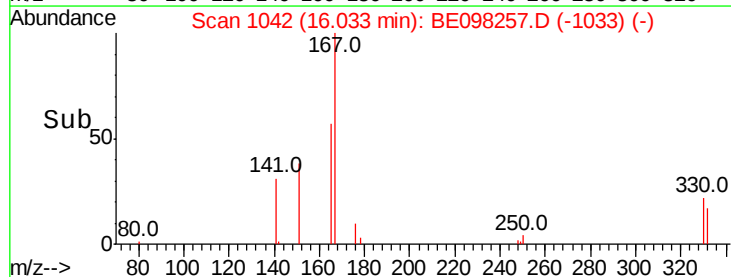
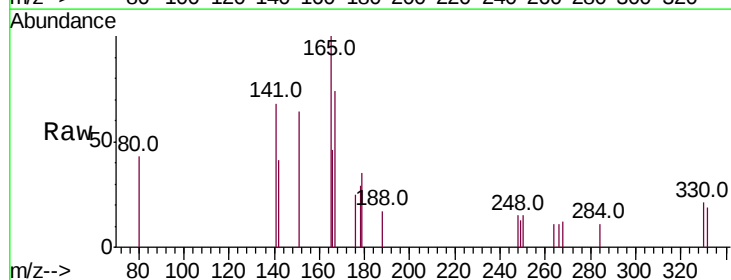
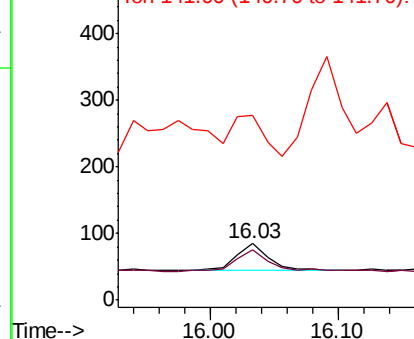
Delta R.T. 0.00 min

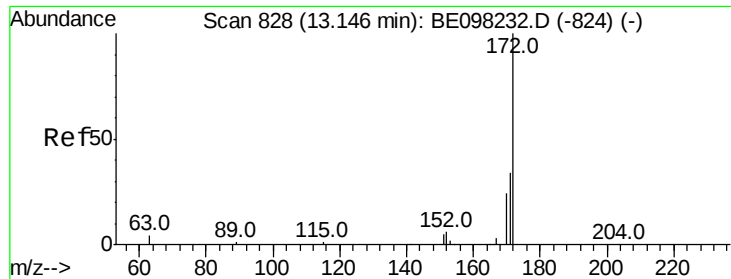
Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion:	330	Resp:	73
Ion	Ratio	Lower	Upper
330	100		
332	84.9	77.7	116.5
141	138.4	33.6	50.4#

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: 0.028 ng

RT: 13.16 min Scan# 829

Delta R.T. 0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

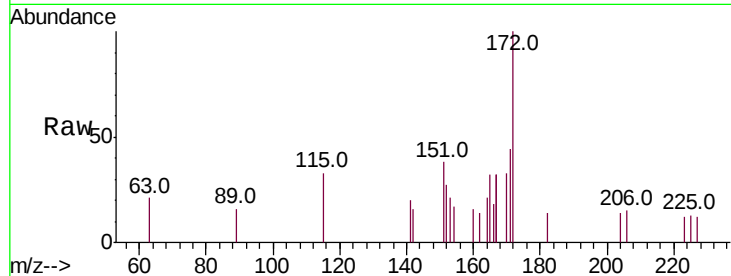
ClientSampled :

AOC8-01R-A

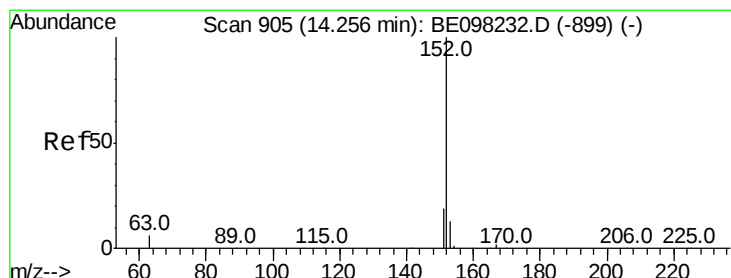
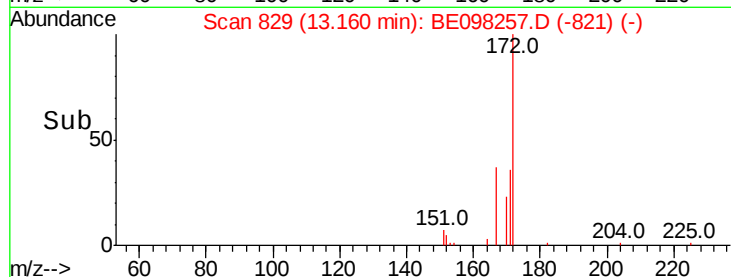
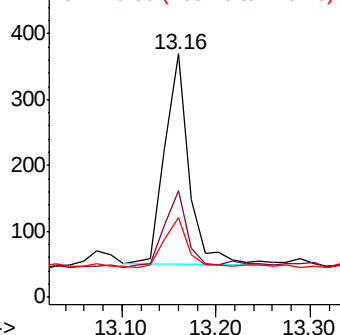
Tot Ion:172	Resp:	568
Ion Ratio	Lower	Upper
172 100		
171 43.6	27.3	40.9#
170 32.8	19.4	29.0#

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



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: 0.573 ng

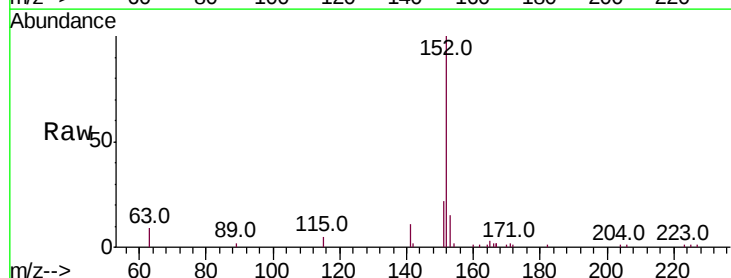
RT: 14.25 min Scan# 905

Delta R.T. -0.00 min

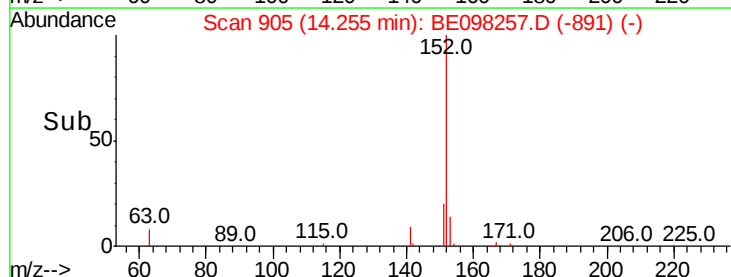
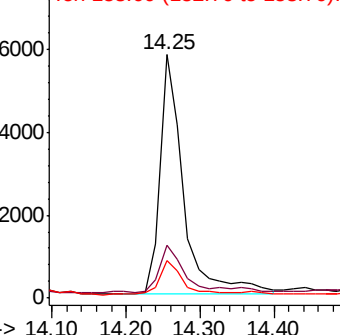
Lab File: BE098257.D

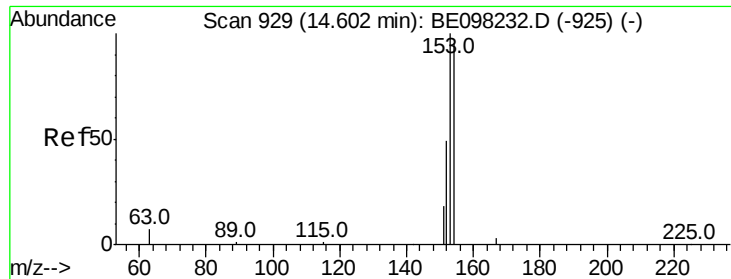
Acq: 21 Nov 2018 11:35

Tgt Ion:152	Resp:	12838
Ion Ratio	Lower	Upper
152 100		
151 23.0	16.4	24.6
153 14.0	10.6	15.8



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





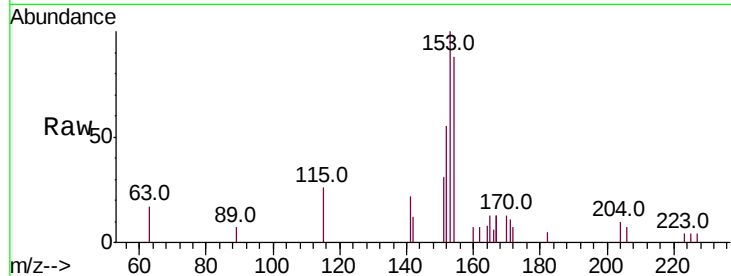
#17
Acenaphthene
Concen: 0.116 ng
RT: 14.60 min Scan# 929
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
154	100		
153	118.0	92.1	138.1
152	60.1	46.2	69.2

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



Abundance

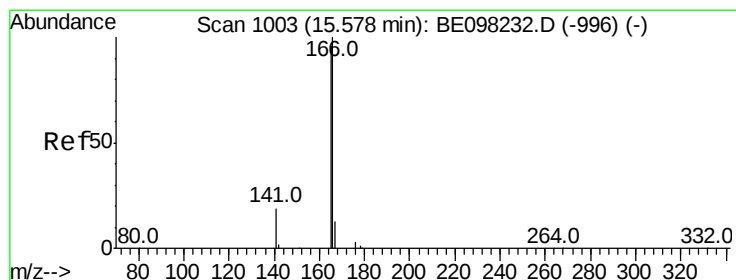
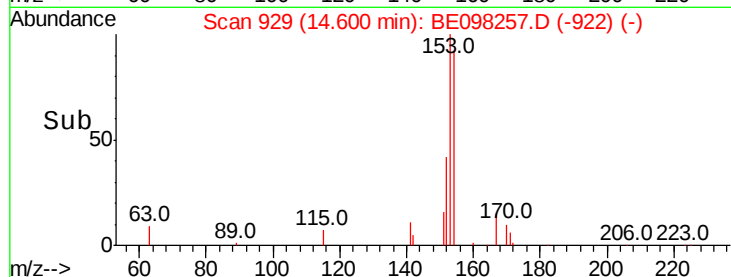
Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.60

Time-->



#18
Fluorene
Concen: 0.213 ng
RT: 15.58 min Scan# 1003
Delta R.T. 0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.6	80.1	120.1
167	17.4	10.8	16.2#

Abundance

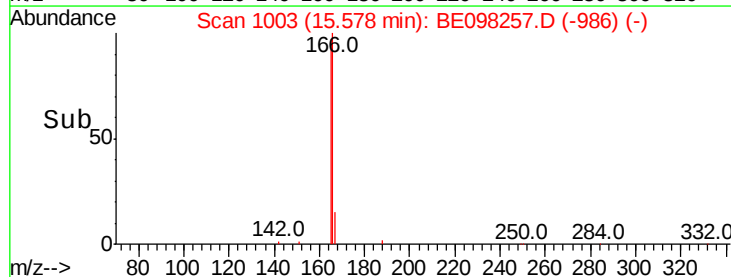
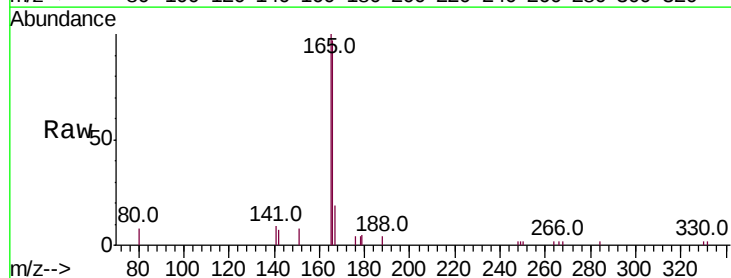
Ion 166.00 (165.70 to 166.70): E

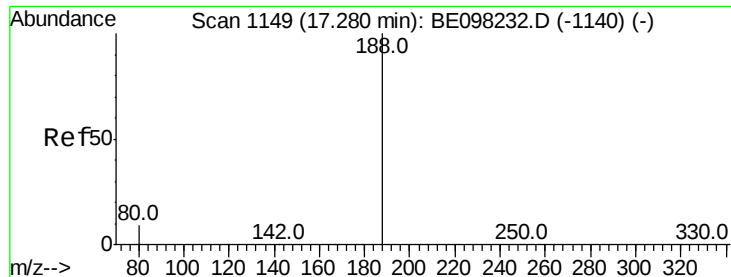
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.58

Time-->





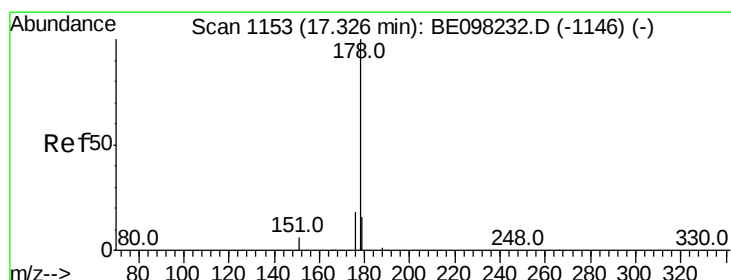
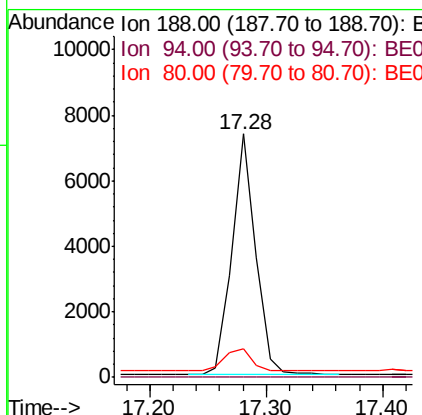
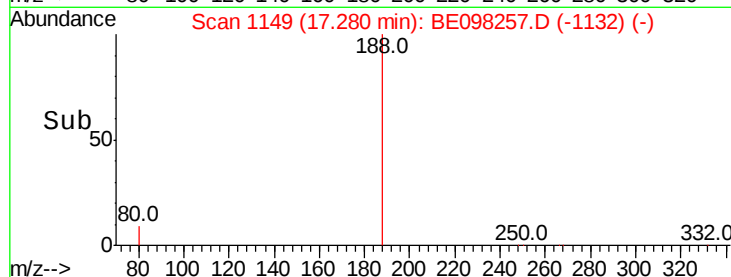
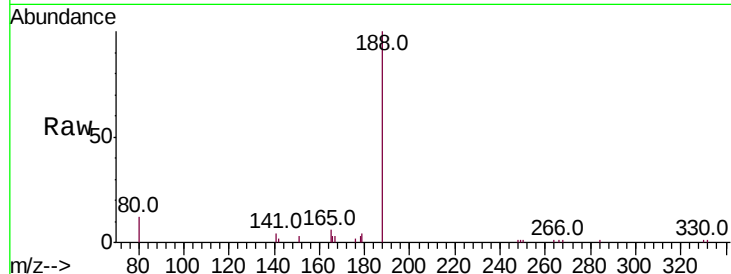
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.28 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	6.7	10.1

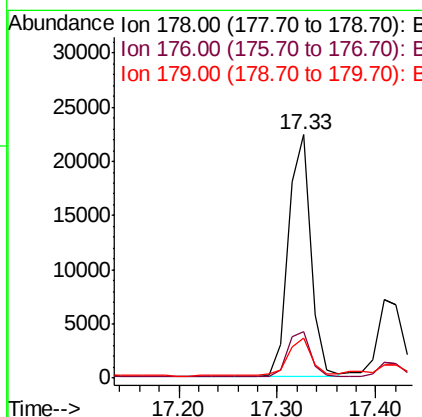
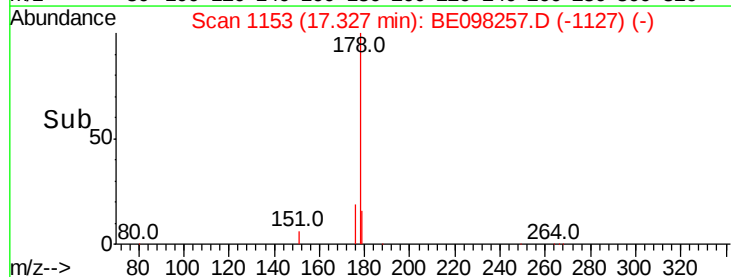
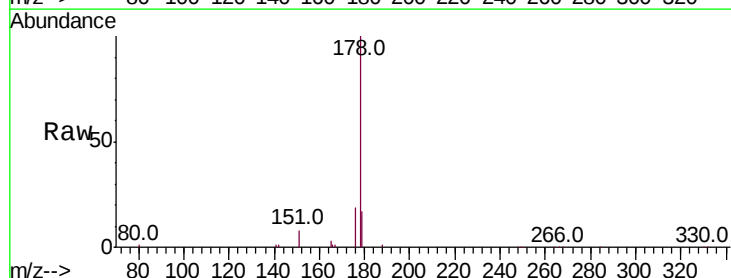
Manual Integrations
APPROVED

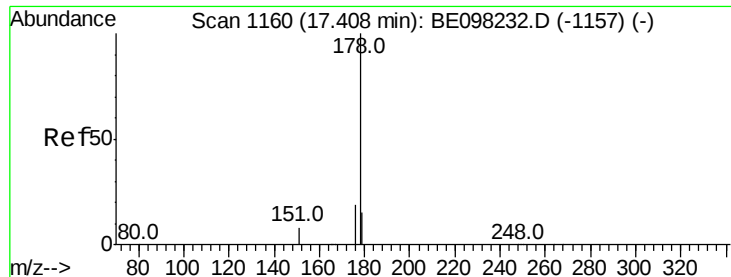
mohammad
11/23/2018 11:47:25 AM



#23
Phenanthrene
Concen: 1.303 ng
RT: 17.33 min Scan# 1153
Delta R.T. 0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.8	12.3	18.5





#24

Anthracene

Concen: 0.485 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

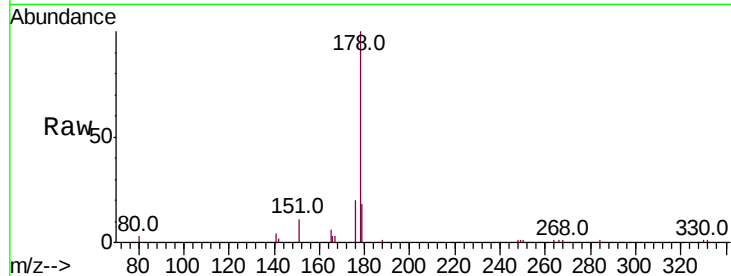
ClientSampleId :

AOC8-01R-A

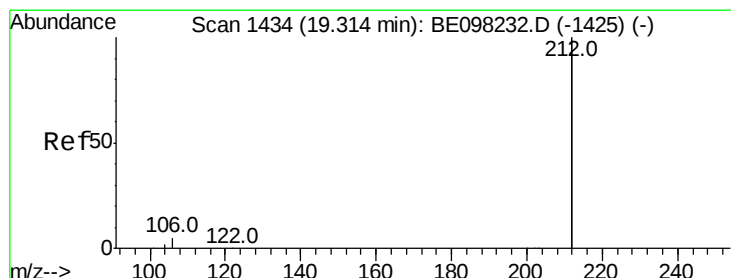
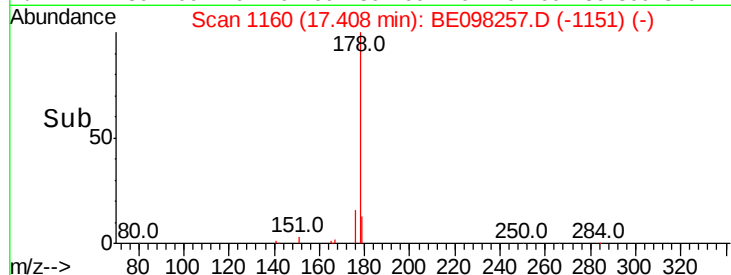
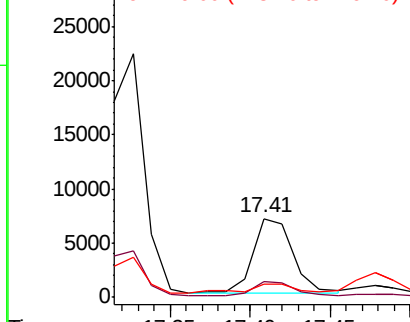
Tot Ion:	178	Resp:	11881
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.7	23.5
179	15.2	12.1	18.1

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



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: 0.029 ng

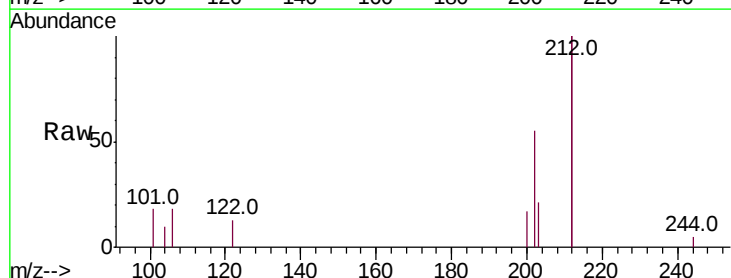
RT: 19.32 min Scan# 1434

Delta R.T. 0.00 min

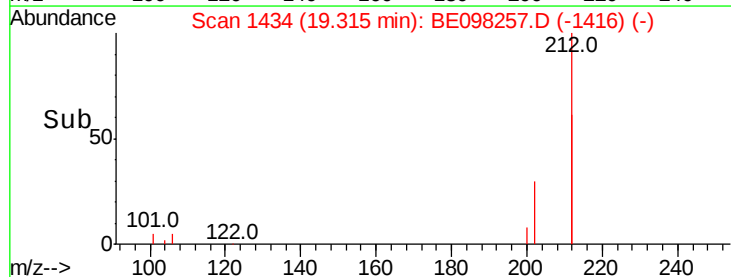
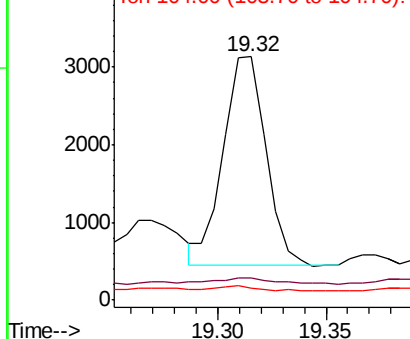
Lab File: BE098257.D

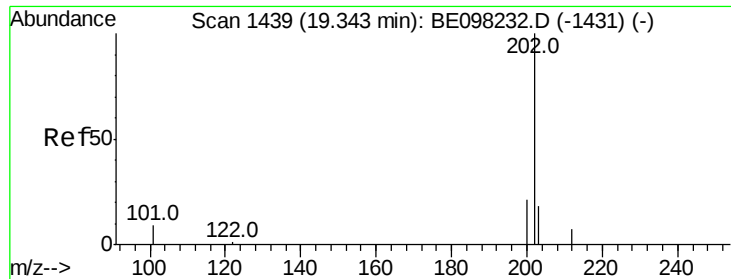
Acq: 21 Nov 2018 11:35

Tgt Ion:	212	Resp:	3667
Ion Ratio	Lower	Upper	
212	100		
106	4.4	1.8	2.8#
104	2.1	1.1	1.7#



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





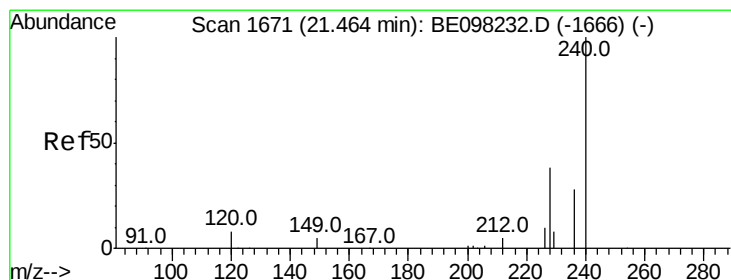
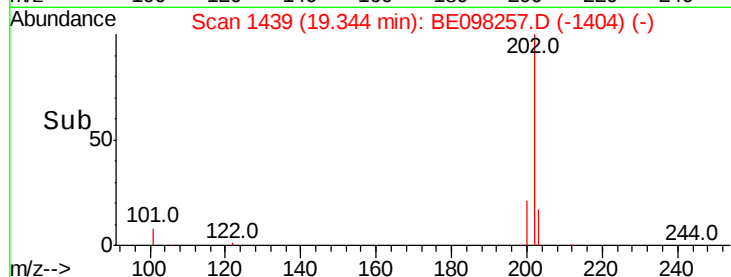
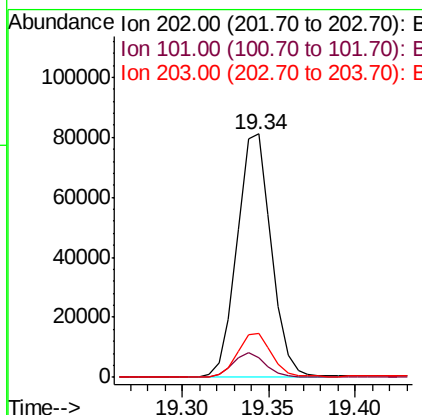
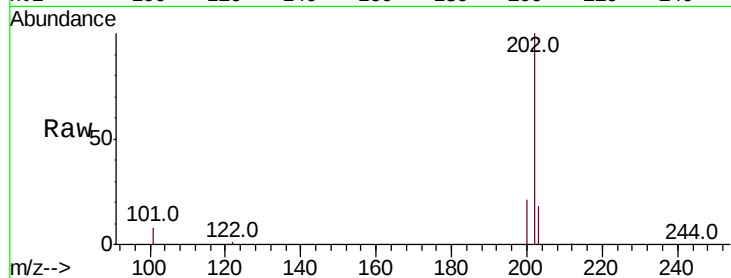
#26
Fluoranthene
Concen: 3.437 ng
RT: 19.34 min Scan# 1439
Delta R.T. 0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Resp	Lower	Upper
202	100	111159		
101	9.6	7.0	10.6	
203	17.5	13.7	20.5	

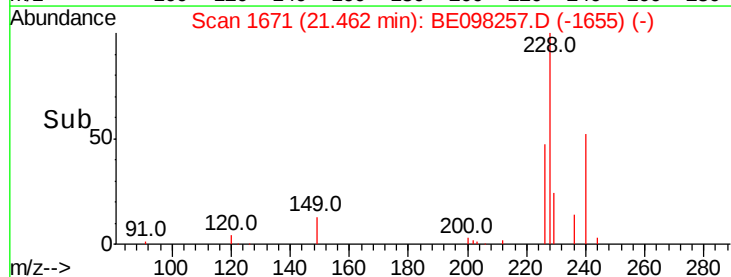
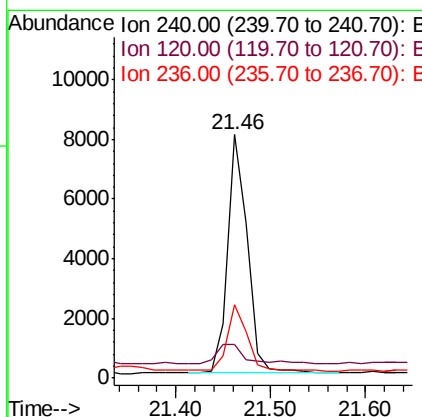
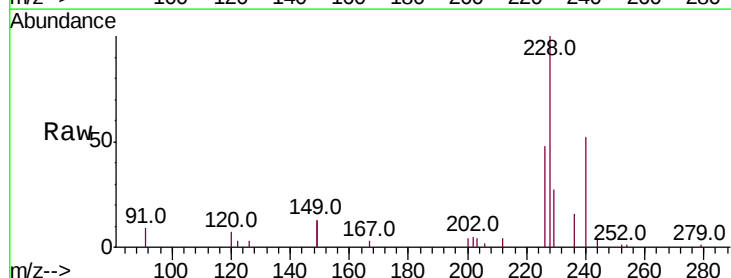
Manual Integrations
APPROVED

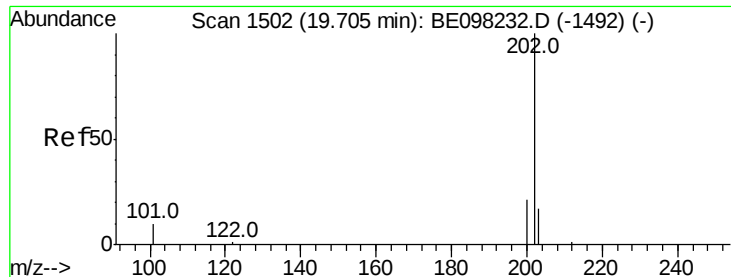
mohammad
11/23/2018 11:47:25 AM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.46 min Scan# 1671
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	11583		
120	13.9	4.8	7.2#	
236	29.9	21.4	32.0	





#28

Pvrene

Concen: 3.232 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

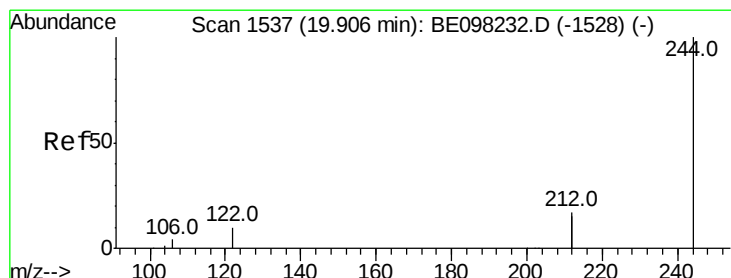
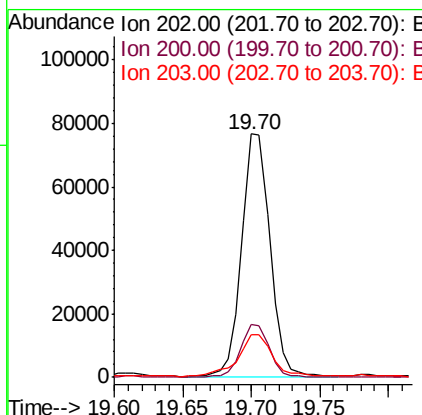
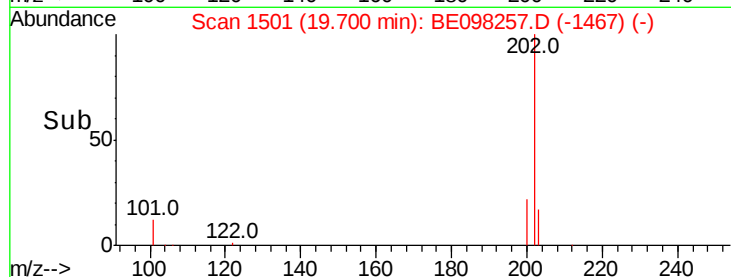
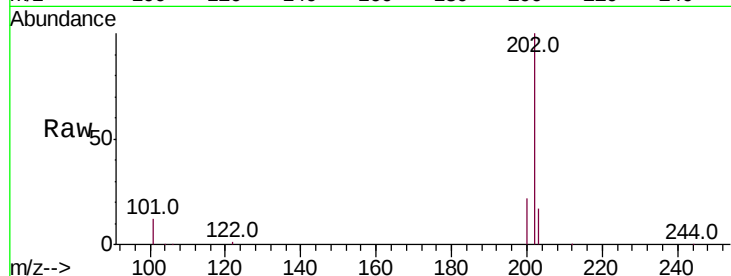
ClientSampleId :

AOC8-01R-A

Tot Ion:	202	Resp:	109421
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.2	25.8
203	20.5	14.2	21.4

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



#29

Terphenyl-d14

Concen: 0.034 ng

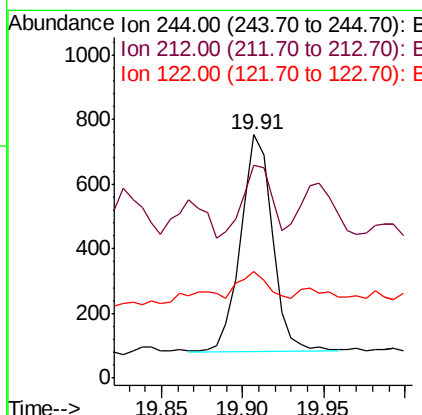
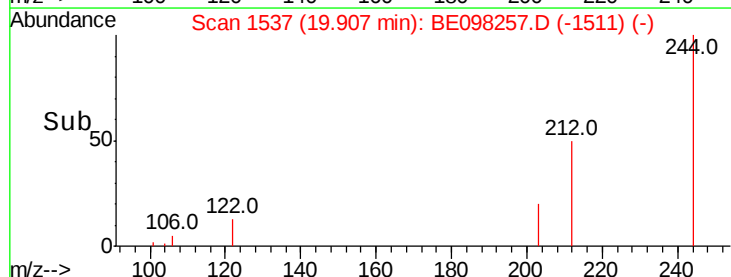
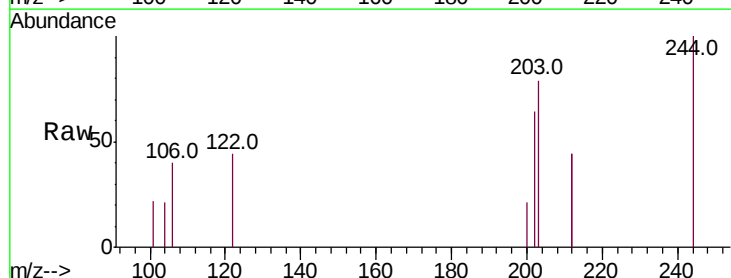
RT: 19.91 min Scan# 1537

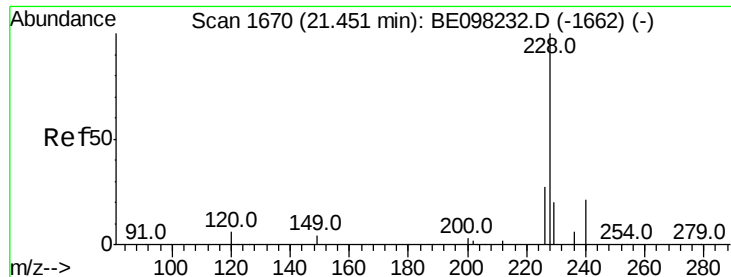
Delta R.T. 0.00 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion:	244	Resp:	914
Ion Ratio	Lower	Upper	
244	100		
212	87.4	26.8	40.2#
122	43.7	7.0	10.6#





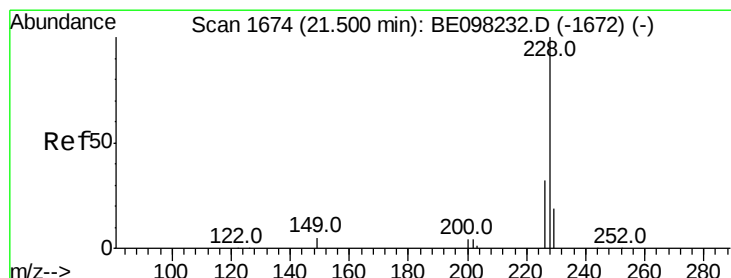
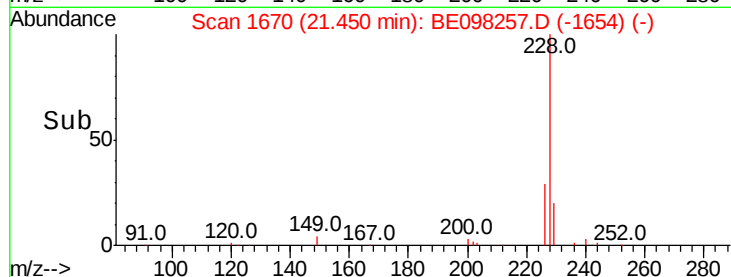
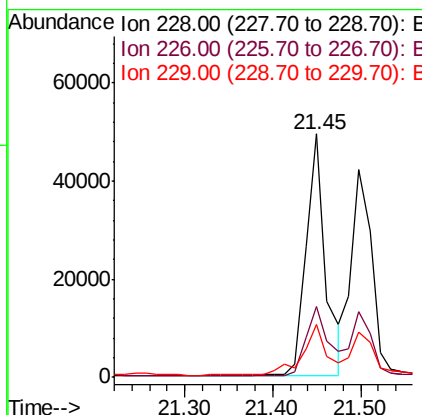
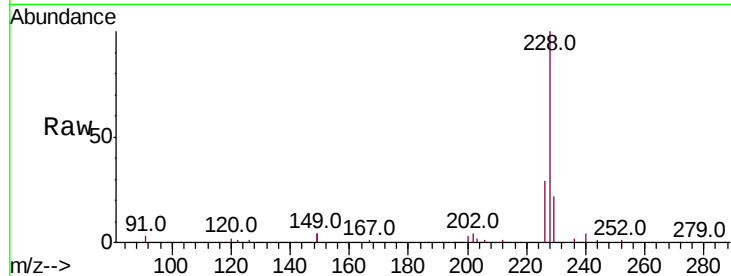
#30
Benzo(a)anthracene
Concen: 2.288 ng
RT: 21.45 min Scan# 1670
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	20.7	31.1
229	21.7	16.2	24.4

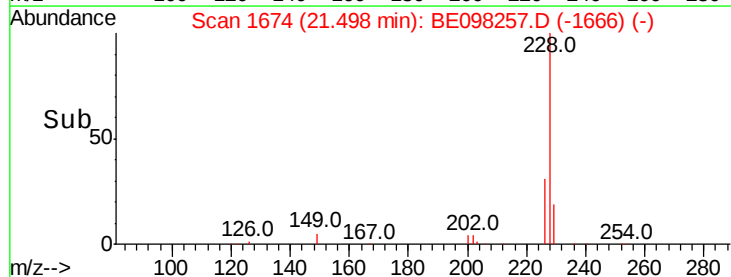
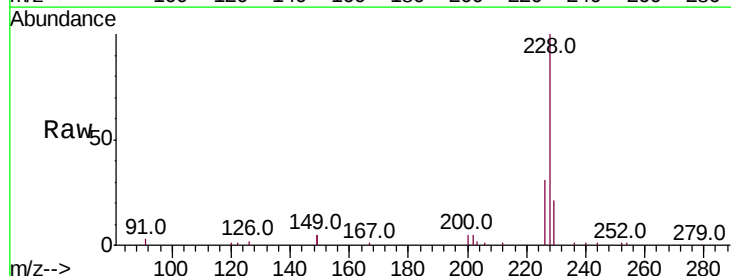
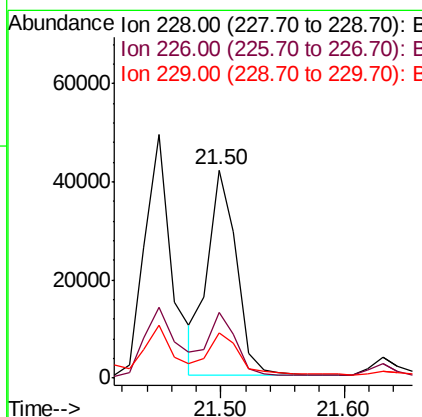
Manual Integrations
APPROVED

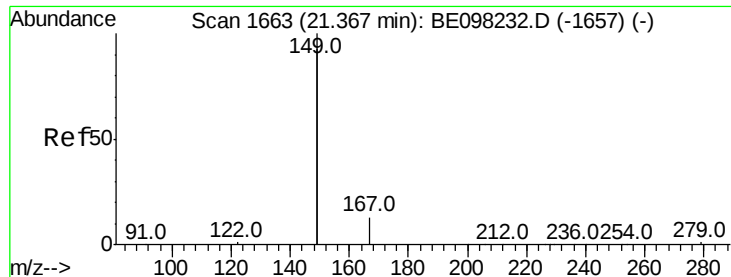
mohammad
11/23/2018 11:47:25 AM



#31
Chrysene
Concen: 1.959 ng
RT: 21.50 min Scan# 1674
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.6	36.8
229	21.5	16.0	24.0





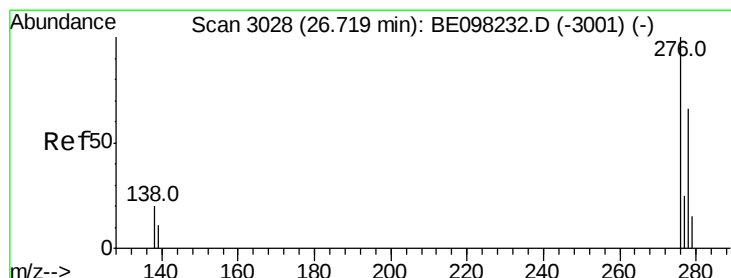
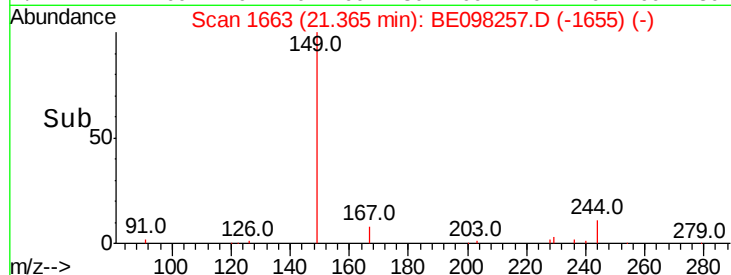
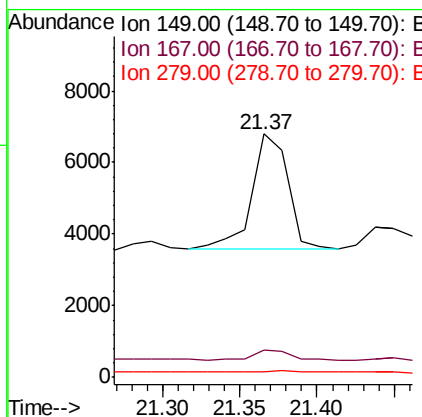
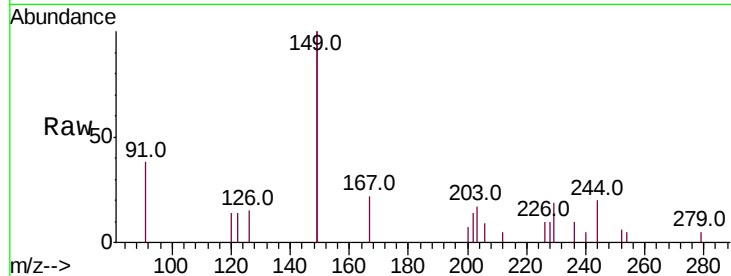
#32
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 21.37 min Scan# 1663
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
149	100		
167	8.9	5.6	8.4#
279	2.3	0.9	1.3#

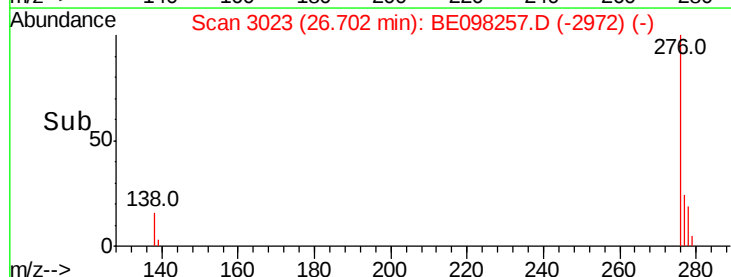
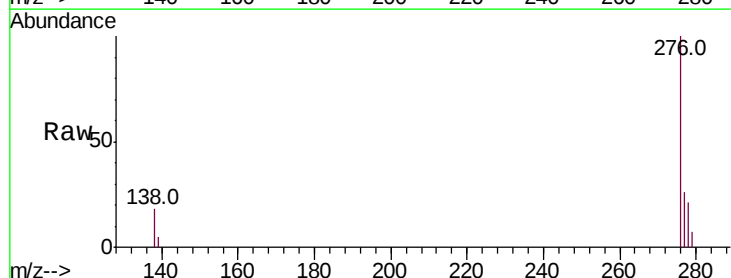
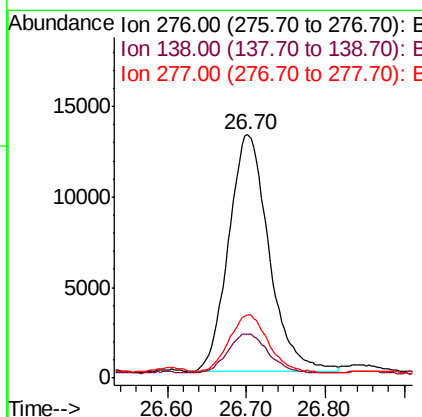
Manual Integrations
APPROVED

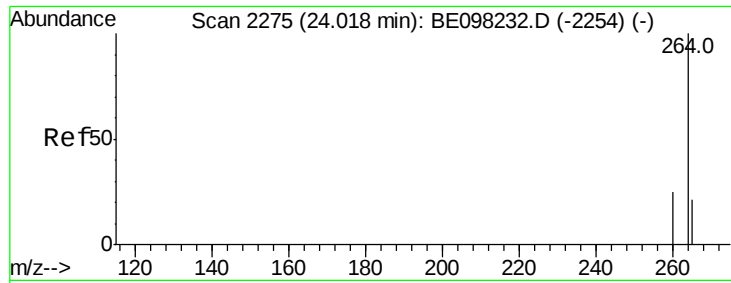
mohammad
11/23/2018 11:47:25 AM



#33
Indeno(1,2,3-cd)pyrene
Concen: 1.568 ng
RT: 26.70 min Scan# 3023
Delta R.T. -0.02 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.8	6.4	9.6#
277	23.8	18.9	28.3





#34

Pervlene-d12

Concen: 0.400 ng

RT: 24.01 min Scan# 2273

Delta R.T. -0.01 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Instrument :

BNA_E

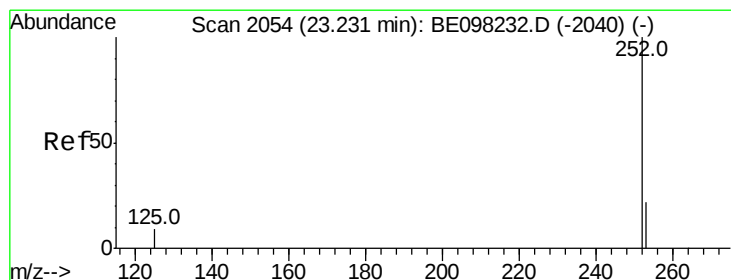
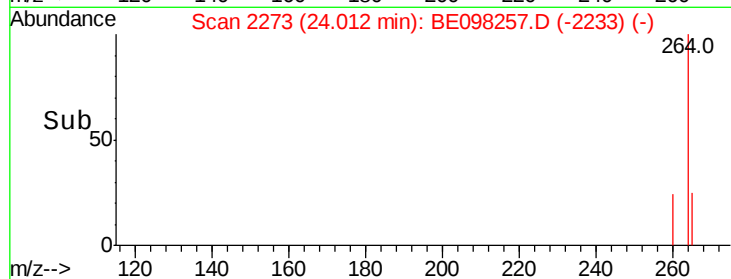
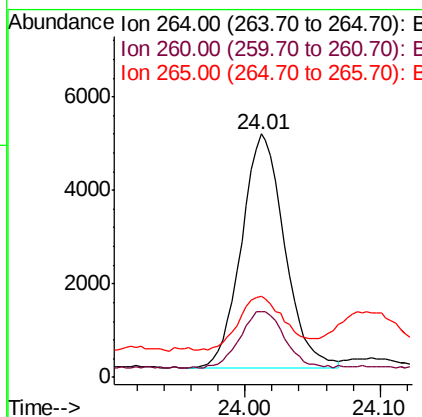
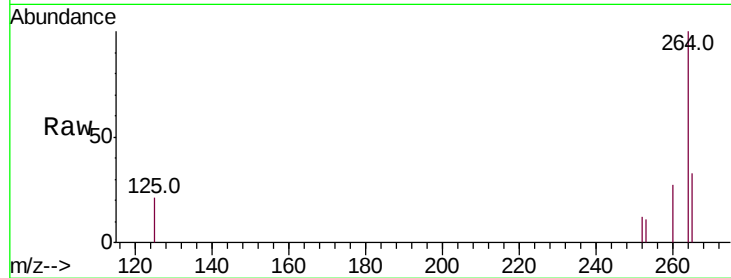
ClientSampleId :

AOC8-01R-A

Tot Ion:	264	Resp:	11131
Ion Ratio	Lower	Upper	
264	100		
260	27.1	19.9	29.9
265	33.2	21.3	31.9#

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



#35

Benzo(b)fluoranthene

Concen: 3.039 ng

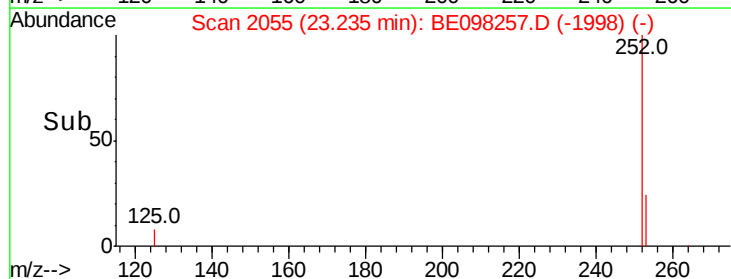
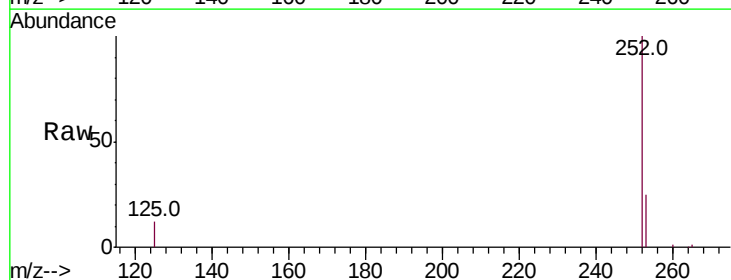
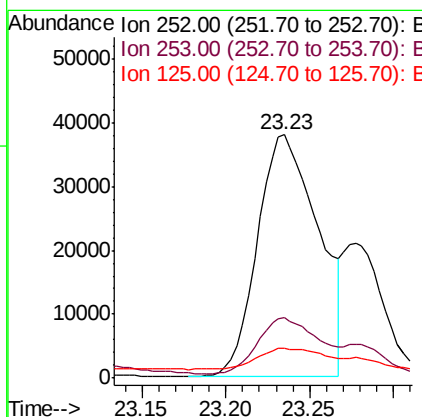
RT: 23.23 min Scan# 2055

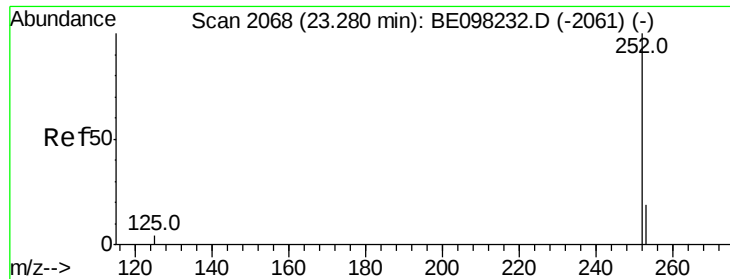
Delta R.T. 0.00 min

Lab File: BE098257.D

Acq: 21 Nov 2018 11:35

Tgt Ion:	252	Resp:	95533
Ion Ratio	Lower	Upper	
252	100		
253	24.8	19.4	29.0
125	12.3	8.6	12.8





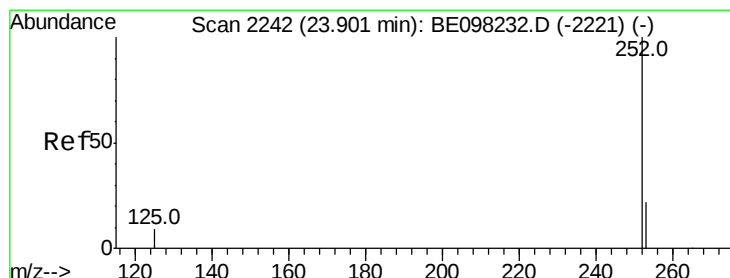
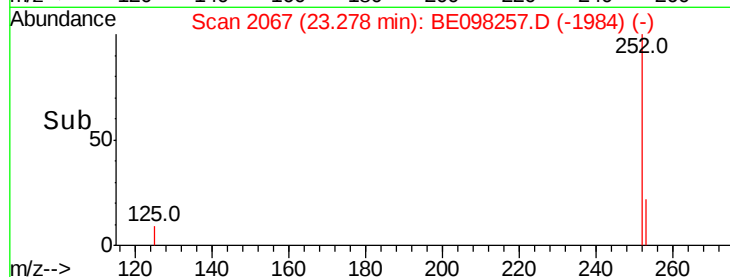
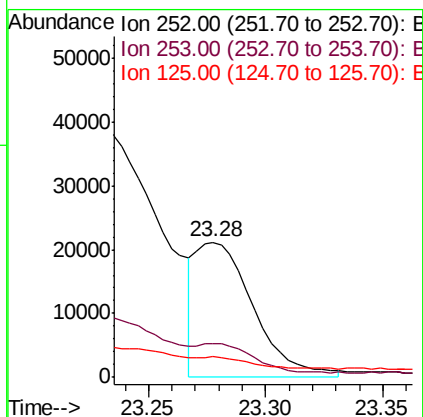
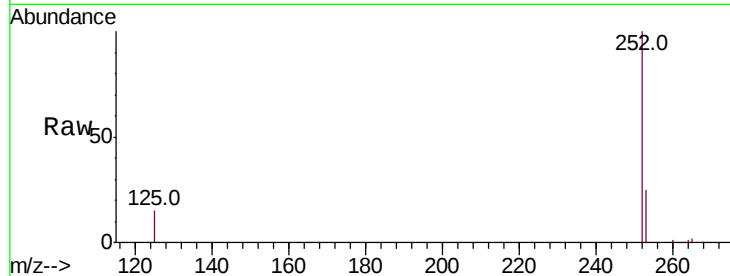
#36
Benzo(k)fluoranthene
Concen: 1.028 ng m
RT: 23.28 min Scan# 2067
Delta R.T. -0.00 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion:252 Resp: 36478
Ion Ratio Lower Upper
252 100
253 25.2 18.6 28.0
125 15.1 7.4 11.0#

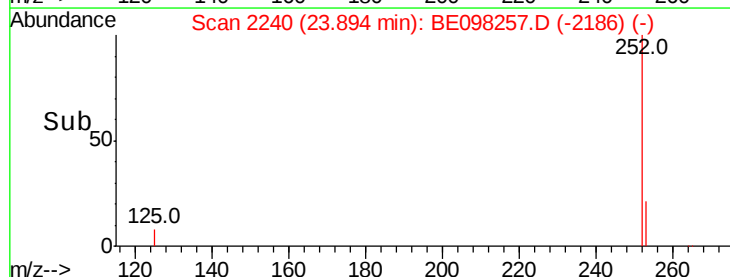
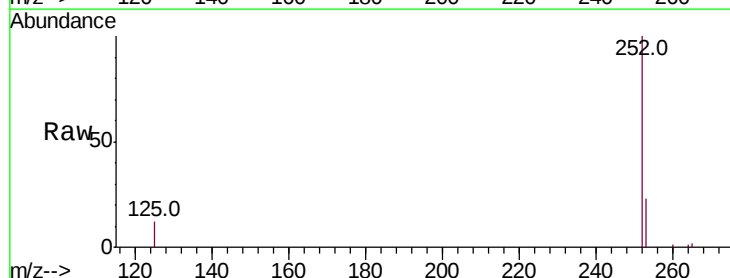
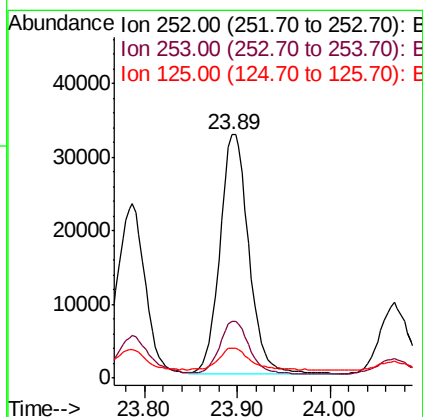
Manual Integrations
APPROVED

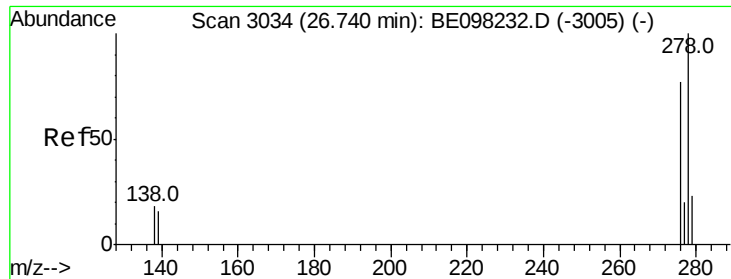
mohammad
11/23/2018 11:47:25 AM



#37
Benzo(a)pyrene
Concen: 2.263 ng
RT: 23.89 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion:252 Resp: 69854
Ion Ratio Lower Upper
252 100
253 23.3 18.6 27.8
125 12.4 8.0 12.0#





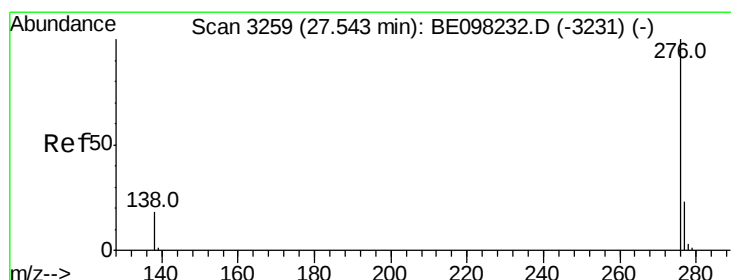
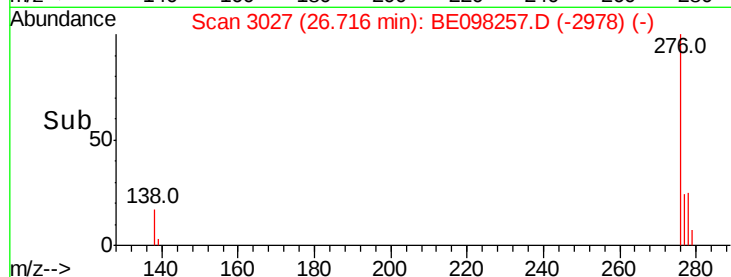
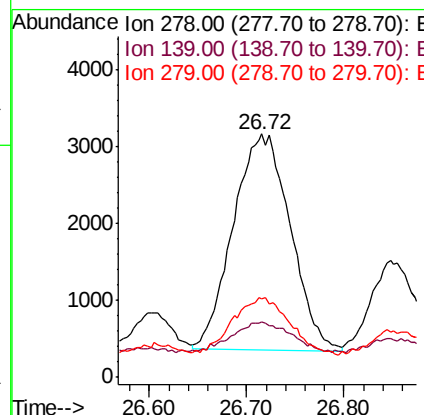
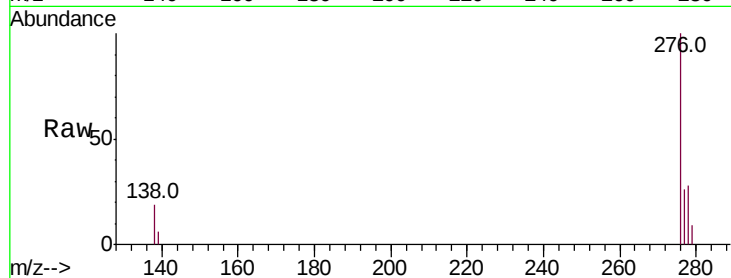
#38
Dibenzo(a,h)anthracene
Concen: 0.461 ng
RT: 26.72 min Scan# 3027
Delta R.T. -0.02 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Instrument :
BNA_E
ClientSampleId :
AOC8-01R-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.9	16.4	24.6
279	32.4	21.3	31.9

Manual Integrations
APPROVED

mohammad
11/23/2018 11:47:25 AM



#39
Benzo(g,h,i)perylene
Concen: 1.717 ng
RT: 27.53 min Scan# 3256
Delta R.T. -0.01 min
Lab File: BE098257.D
Acq: 21 Nov 2018 11:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.4	30.6
138	18.4	13.2	19.8

