

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE112118\
 Data File : BE098264.D
 Acq On : 21 Nov 2018 16:24
 Operator : SJ/JU
 Sample : J5996-07DL 20X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 AOC8-01R-CDL

Manual Integrations
 APPROVED

mohammad
 11/23/2018 11:47:41 AM

Quant Time: Nov 22 00:39:32 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	1517	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	7162	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	4563	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	10152	0.40	ng	0.00
27) Chrysene-d12	21.46	240	11275	0.40	ng	0.00
34) Perylene-d12	24.02	264	10849	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.45	112	135	0.03	ng	0.00
5) Phenol-d6	7.04	99	223	0.03	ng	0.00
8) Nitrobenzene-d5	9.03	82	193	0.03	ng	0.01
11) 2-Methylnaphthalene-d10	12.27	152	472	0.04	ng	0.00
14) 2,4,6-Tribromophenol	16.02	330	57	0.04	ng	0.00
15) 2-Fluorobiphenyl	13.16	172	463	0.02	ng	0.01
25) Fluoranthene-d10	19.31	212	2951	0.02	ng	0.00
29) Terphenyl-d14	19.91	244	726	0.03	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.72	128	7106	0.097	ng	# 97
12) 2-Methylnaphthalene	12.34	142	1433	0.112	ng	94
16) Acenaphthylene	14.25	152	7185	0.331	ng	98
17) Acenaphthene	14.60	154	1340	0.103	ng	92
18) Fluorene	15.57	166	3305	0.200	ng	# 88
23) Phenanthrene	17.32	178	24392	0.934	ng	98
24) Anthracene	17.41	178	8353	0.352	ng	98
26) Fluoranthene	19.34	202	65502	2.090	ng	99
28) Pyrene	19.70	202	62510	1.897	ng	96
30) Benzo(a)anthracene	21.45	228	44735	1.372	ng	93
31) Chrysene	21.50	228	37233	1.109	ng	95
32) Bis(2-ethylhexyl)phthalate	21.37	149	7304	0.144	ng	# 95
33) Indeno(1,2,3-cd)pyrene	26.71	276	26521	0.923	ng	# 92
35) Benzo(b)fluoranthene	23.24	252	54017	1.763	ng	# 92
36) Benzo(k)fluoranthene	23.28	252	20876m	0.603	ng	
37) Benzo(a)pyrene	23.90	252	40212	1.337	ng	# 91
38) Dibenzo(a,h)anthracene	26.72	278	6667	0.277	ng	# 67
39) Benzo(a,h,i)perylene	27.54	276	24804	0.955	ng	# 92

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

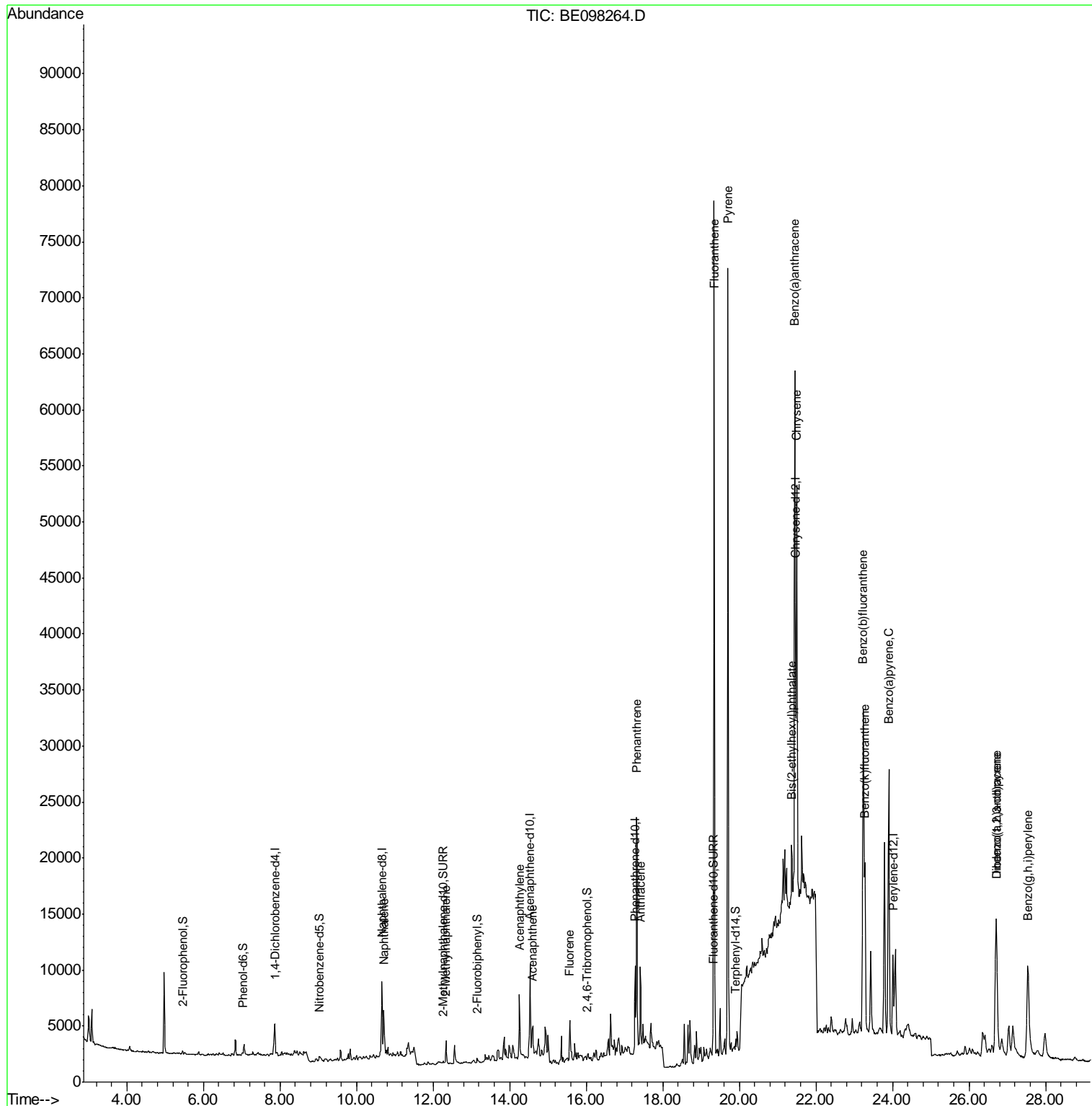
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE112118\
 Data File : BE098264.D
 Acq On : 21 Nov 2018 16:24
 Operator : SJ/JU
 Sample : J5996-07DL 20X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

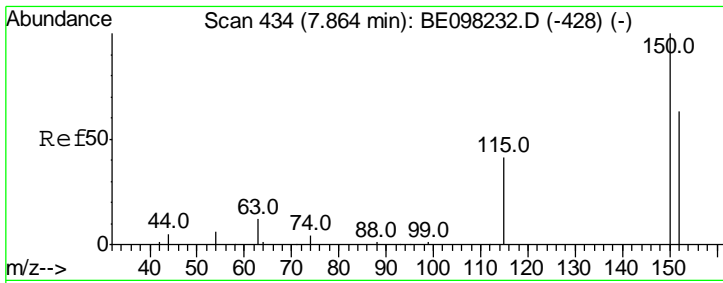
Instrument :
 BNA_E
 ClientSampleId :
 AOC8-01R-CDL

Manual Integrations
 APPROVED

mohammad
 11/23/2018 11:47:41 AM

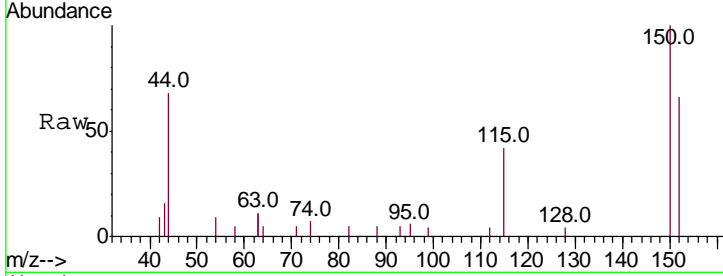
Quant Time: Nov 22 00:39:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 16 19:05:33 2018
 Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.87 min Scan# 435
 Delta R.T. 0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

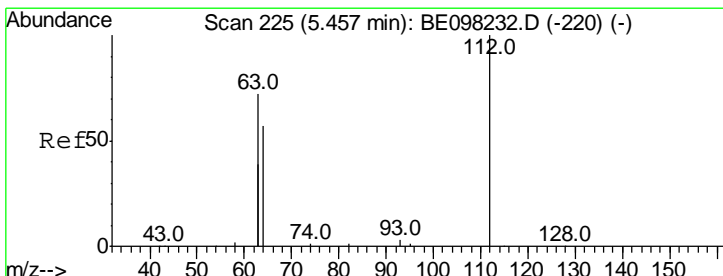
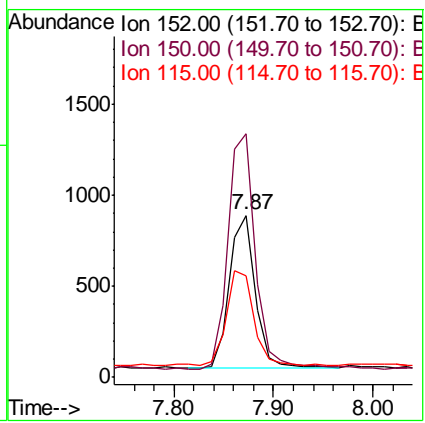
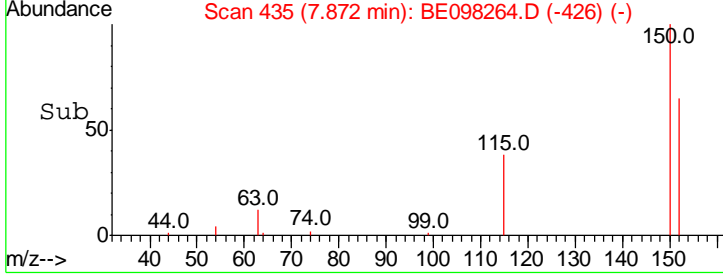
Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL



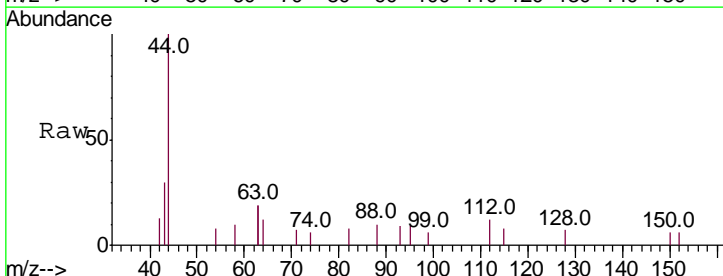
Tgt Ion: 152 Resp: 1517

Ion	Ratio	Lower	Upper
152	100		
150	150.4	127.5	191.3
115	62.8	60.3	90.5

Manual Integrations
APPROVED
 mohammad
 11/23/2018 11:47:41 AM

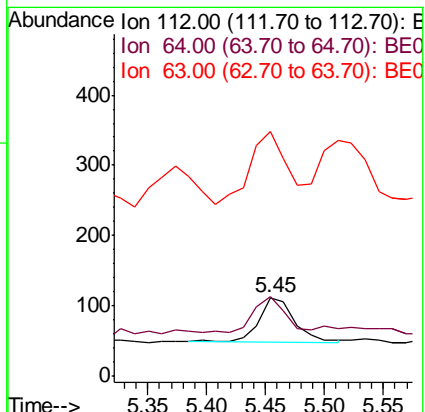
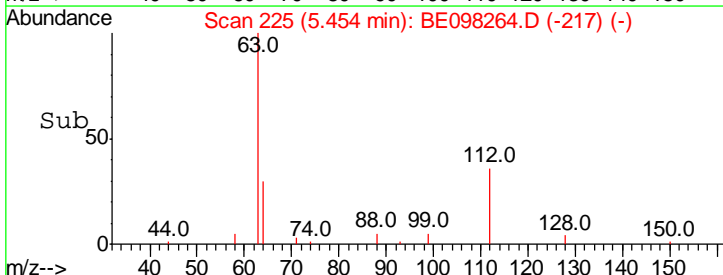


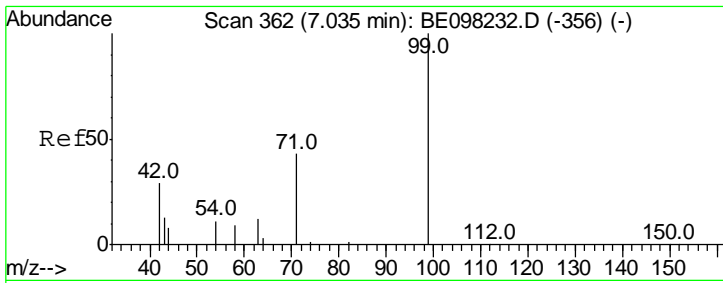
#4
 2-Fluorophenol
 Concen: 0.033 ng
 RT: 5.45 min Scan# 225
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24



Tgt Ion: 112 Resp: 135

Ion	Ratio	Lower	Upper
112	100		
64	68.9	61.7	92.5
63	166.7	136.2	204.2





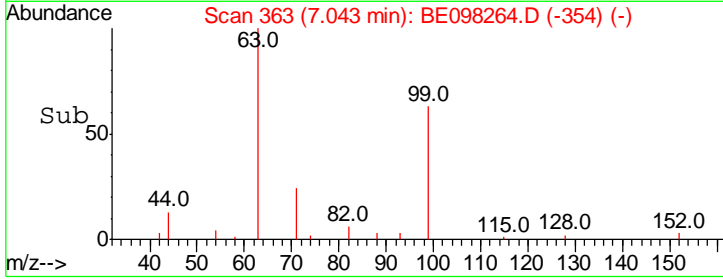
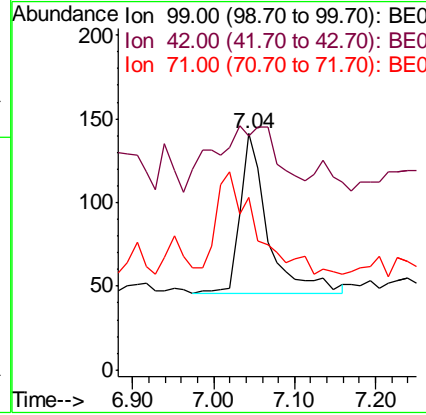
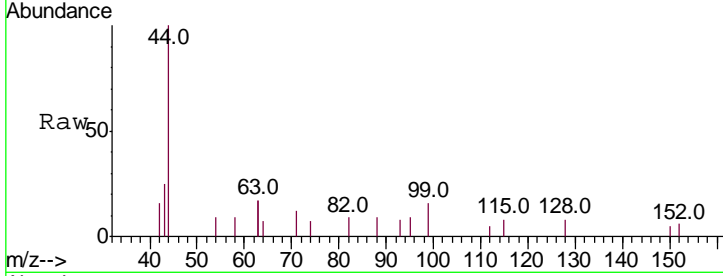
#5
 Phenol-d6
 Concen: 0.035 ng
 RT: 7.04 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
99	100		
42	96.9	27.1	40.7#
71	0.0	37.0	55.6#

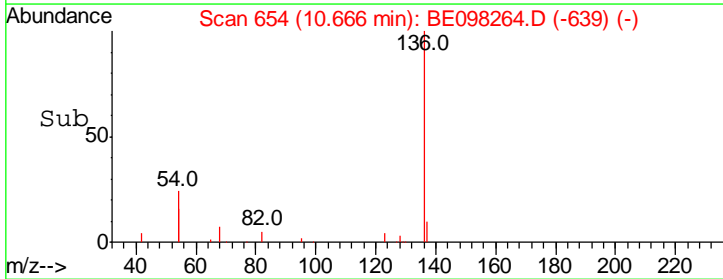
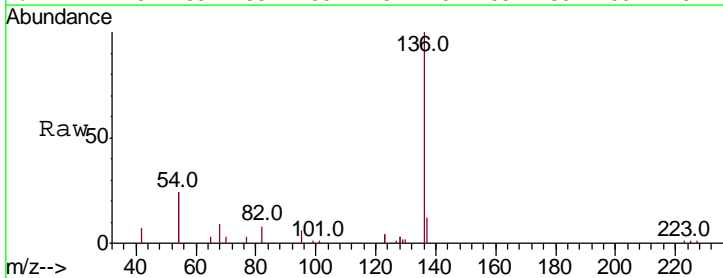
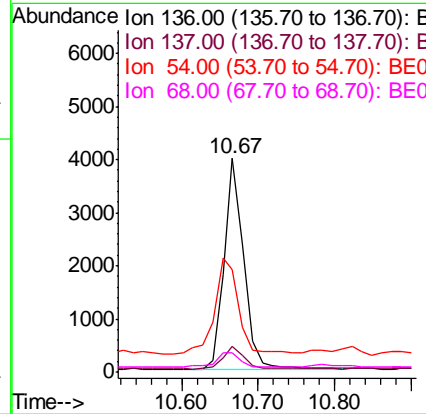
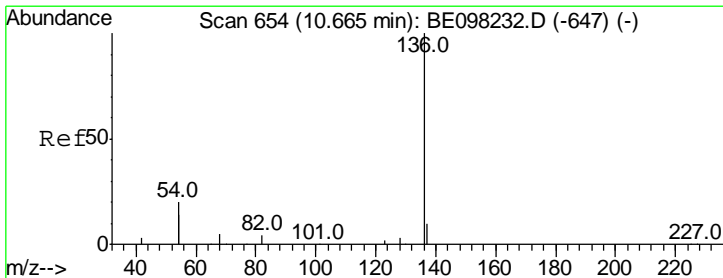
Manual Integrations
APPROVED

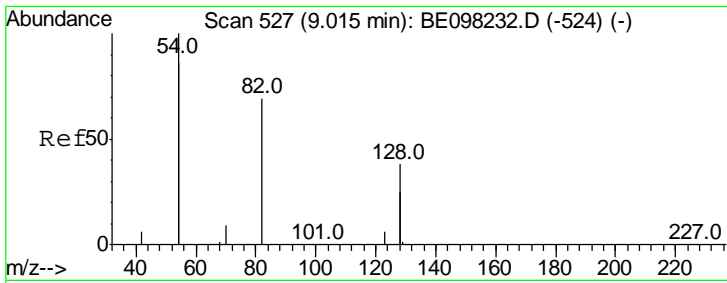
mohammad
 11/23/2018 11:47:41 AM



#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.67 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
136	100		
137	11.8	9.5	14.3
54	47.7	31.3	46.9#
68	8.9	4.8	7.2#





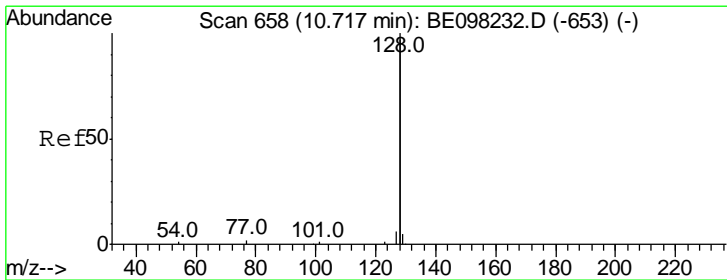
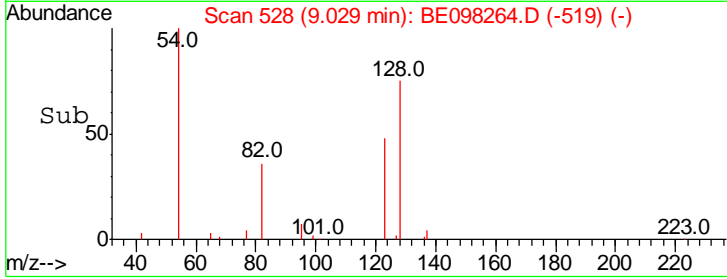
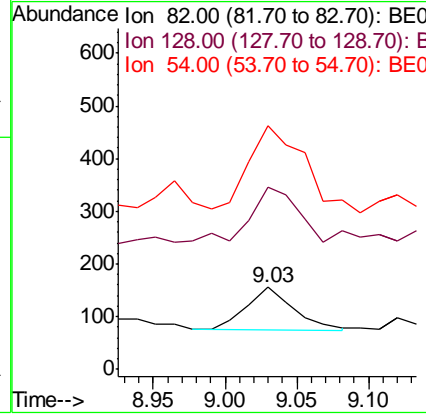
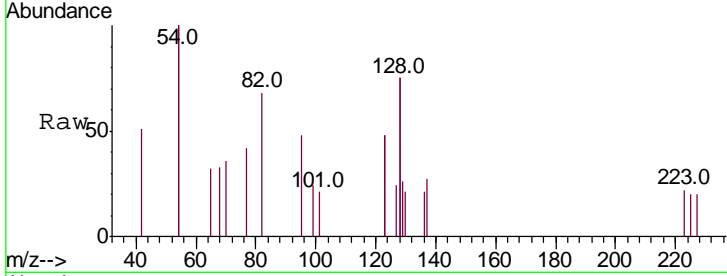
#8
 Nitrobenzene-d5
 Concen: 0.029 ng
 RT: 9.03 min Scan# 528
 Delta R.T. 0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
82	100		
128	221.8	96.1	144.1#
54	296.2	232.0	348.0

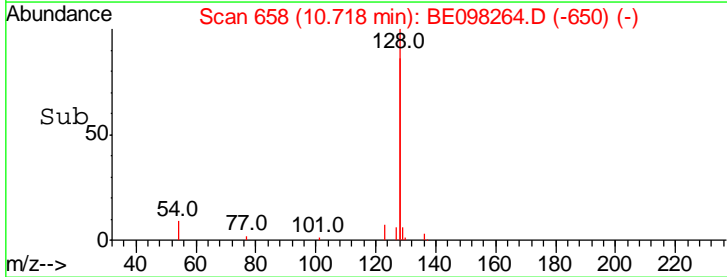
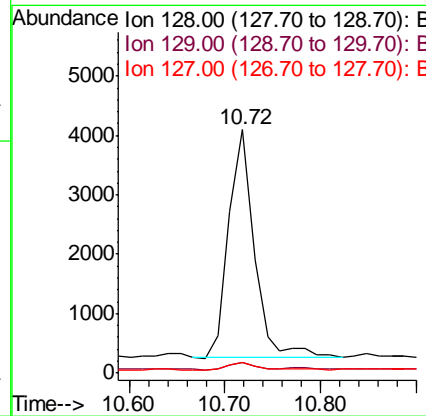
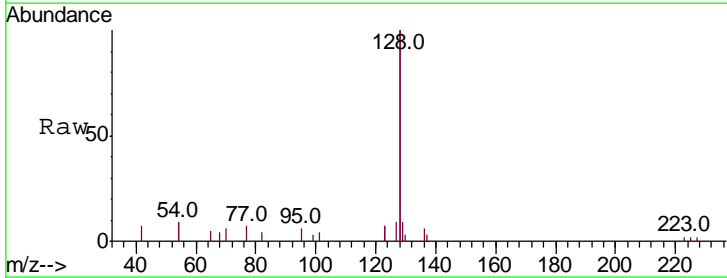
Manual Integrations
APPROVED

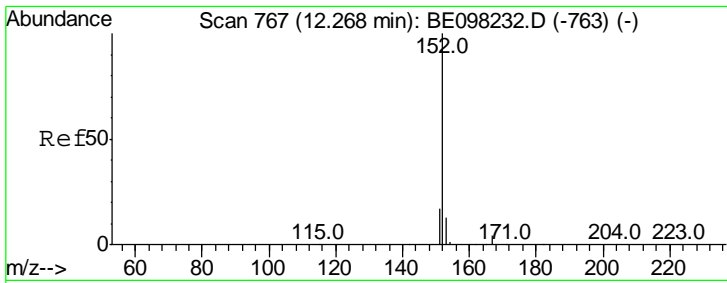
mohammad
 11/23/2018 11:47:41 AM



#9
 Naphthalene
 Concen: 0.097 ng
 RT: 10.72 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
128	100		
129	4.3	2.6	4.0#
127	4.6	2.8	4.2#





#11
 2-Methylnaphthalene-d10
 Concen: 0.038 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

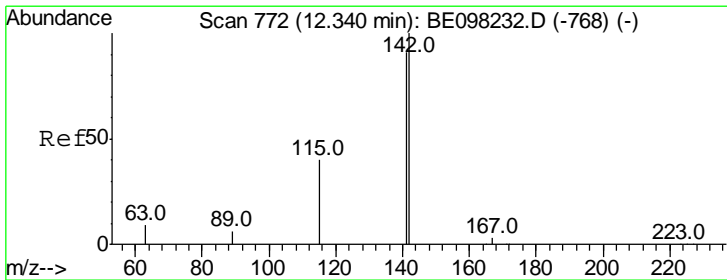
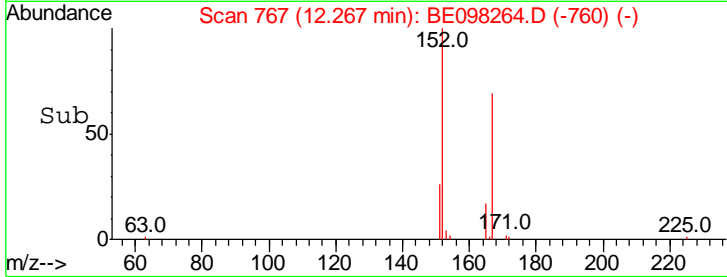
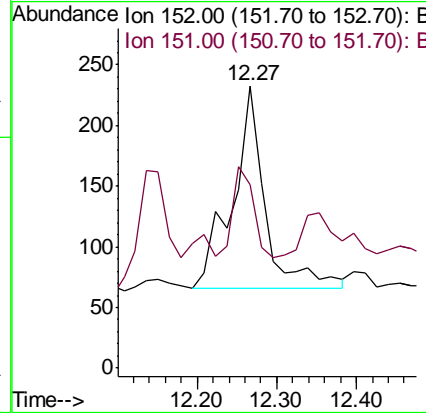
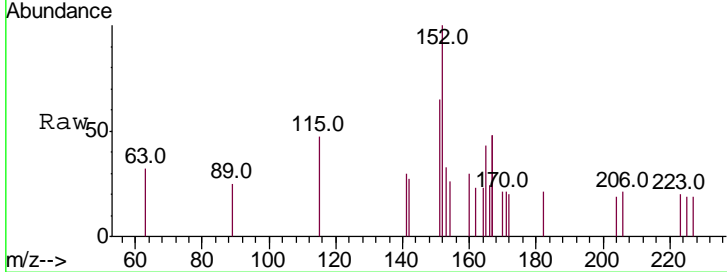
Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL

Tgt Ion: 152 Resp: 472

Ion	Ratio	Lower	Upper
152	100		
151	28.2	15.4	23.2#

Manual Integrations
APPROVED

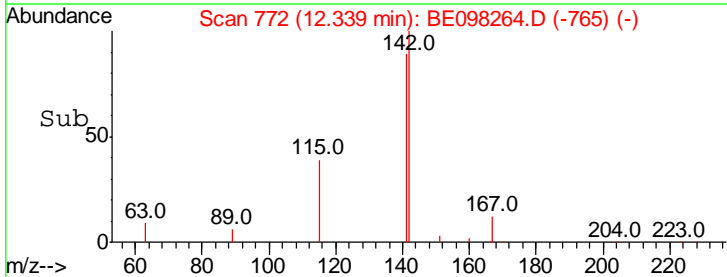
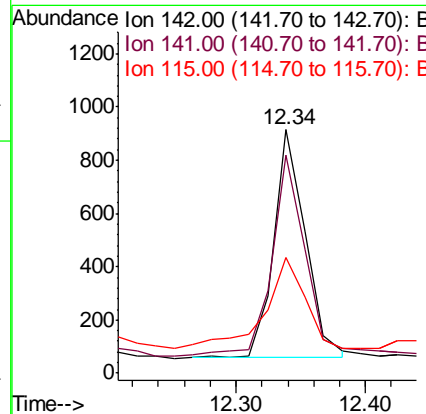
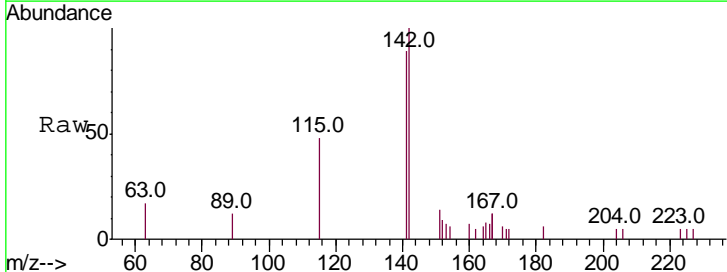
mohammad
 11/23/2018 11:47:41 AM

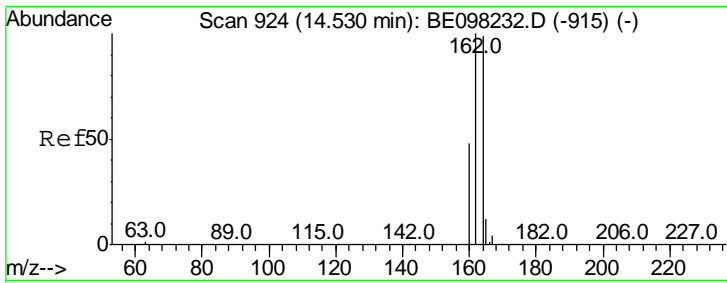


#12
 2-Methylnaphthalene
 Concen: 0.112 ng
 RT: 12.34 min Scan# 772
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion: 142 Resp: 1433

Ion	Ratio	Lower	Upper
142	100		
141	89.4	76.3	114.5
115	47.5	35.8	53.8





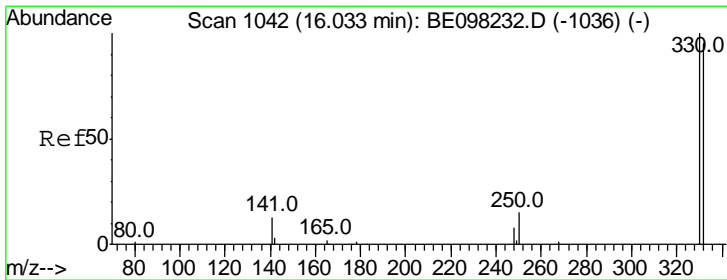
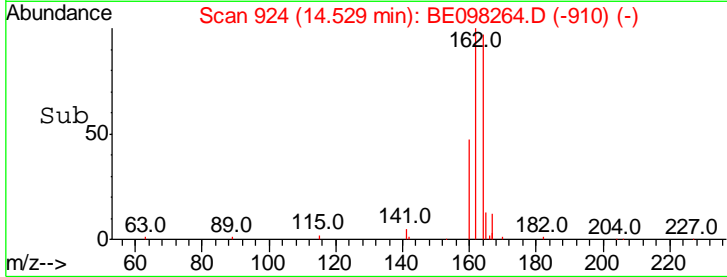
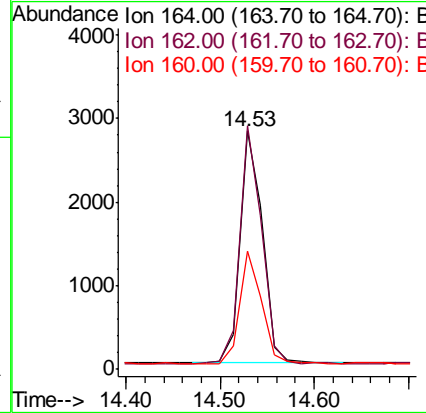
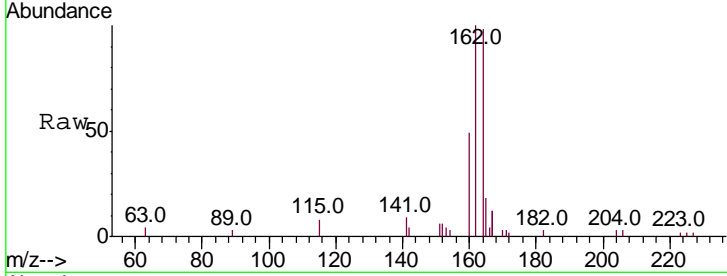
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.53 min Scan# 924
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
164	100		
162	102.3	81.8	122.6
160	49.7	39.4	59.0

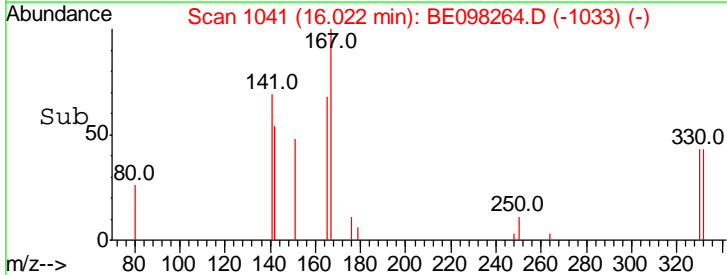
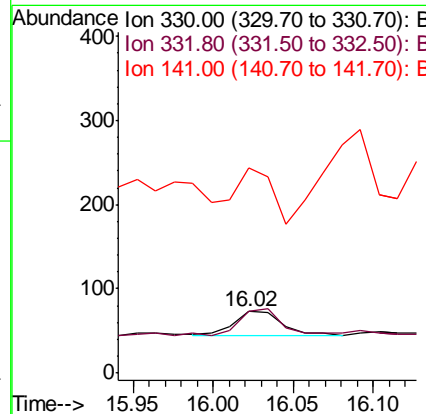
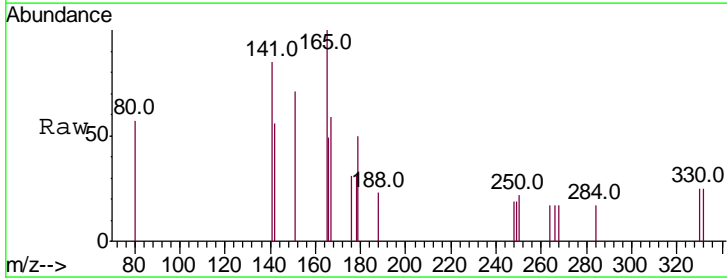
Manual Integrations
 APPROVED

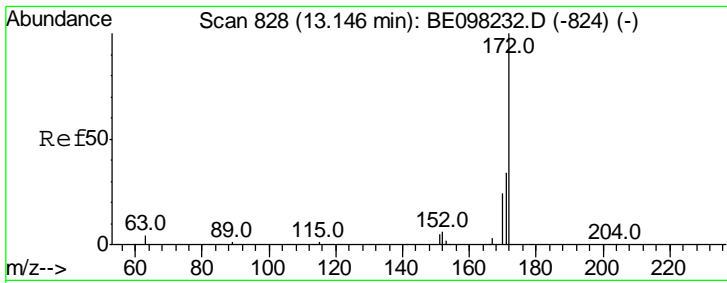
mohammad
 11/23/2018 11:47:41 AM



#14
 2,4,6-Tribromophenol
 Concen: 0.039 ng
 RT: 16.02 min Scan# 1041
 Delta R.T. -0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
330	100		
332	108.8	77.7	116.5
141	189.5	33.6	50.4#





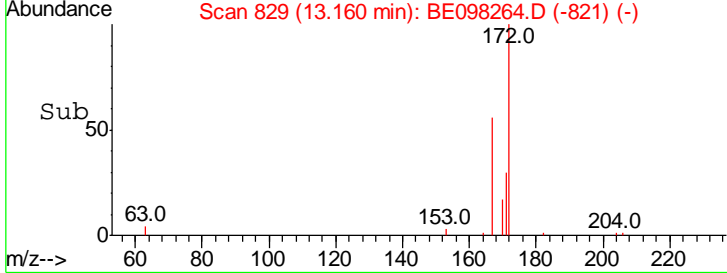
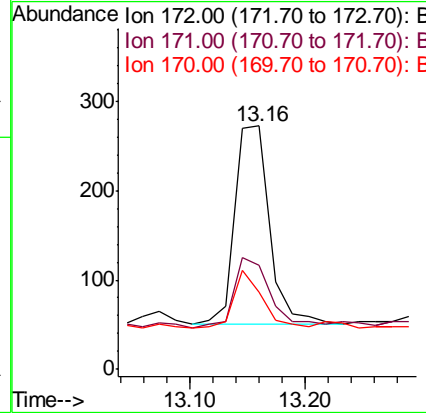
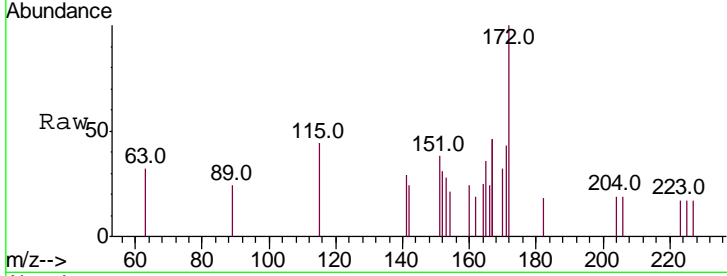
#15
 2-Fluorobiphenyl
 Concen: 0.023 ng
 RT: 13.16 min Scan# 829
 Delta R.T. 0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	42.6	27.3	40.9#
170	32.0	19.4	29.0#

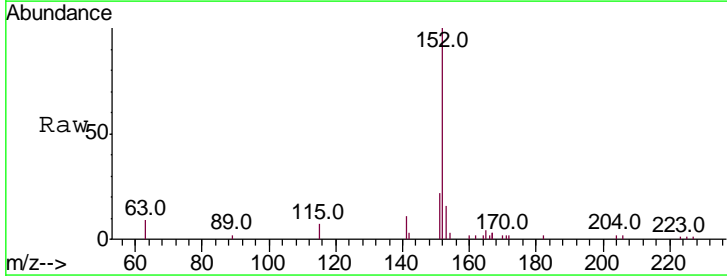
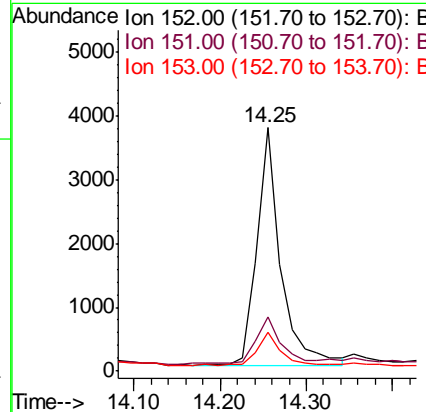
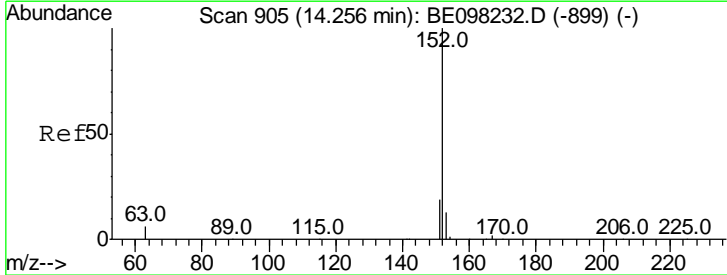
Manual Integrations
APPROVED

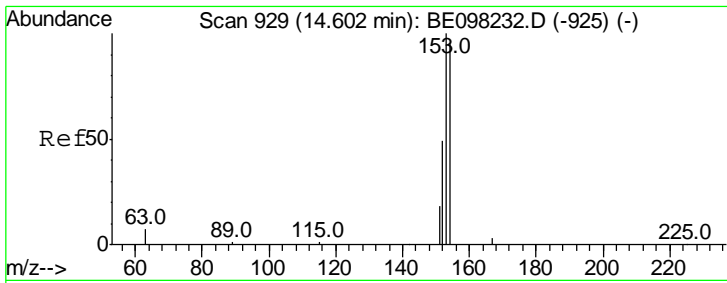
mohammad
 11/23/2018 11:47:41 AM



#16
 Acenaphthylene
 Concen: 0.331 ng
 RT: 14.25 min Scan# 905
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

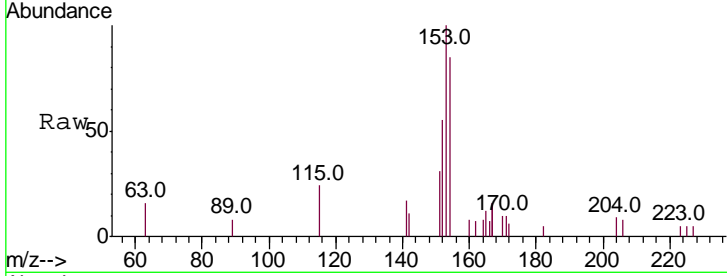
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	14.7	10.6	15.8





#17
 Acenaphthene
 Concen: 0.103 ng
 RT: 14.60 min Scan# 929
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

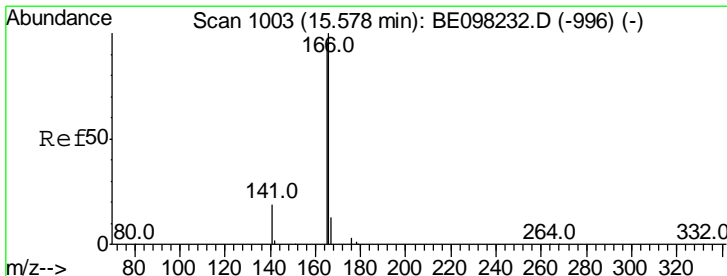
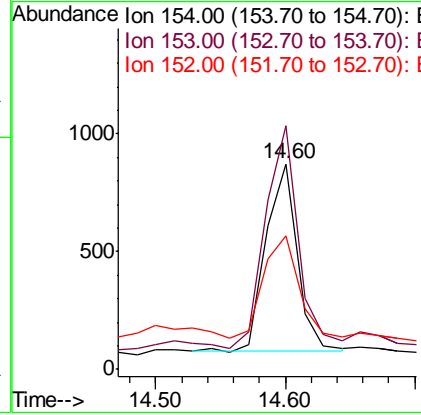
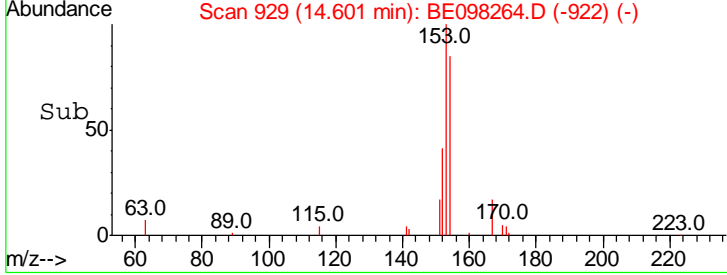
Instrument :
 BNA_E
ClientSampled :
 AOC8-01R-CDL



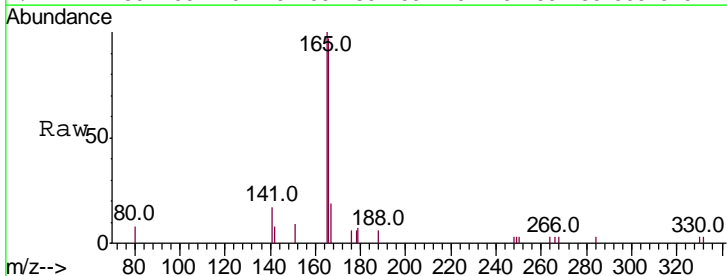
Tgt Ion:154 Resp: 1340

Ion	Ratio	Lower	Upper
154	100		
153	124.4	92.1	138.1
152	62.4	46.2	69.2

Manual Integrations
APPROVED
 mohammad
 11/23/2018 11:47:41 AM

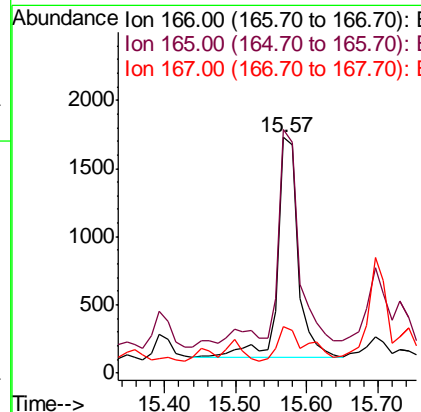
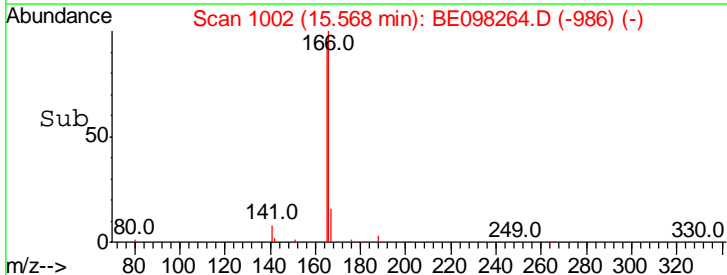


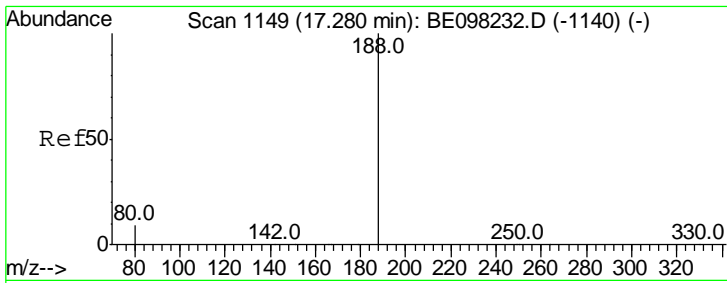
#18
 Fluorene
 Concen: 0.200 ng
 RT: 15.57 min Scan# 1002
 Delta R.T. -0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24



Tgt Ion:166 Resp: 3305

Ion	Ratio	Lower	Upper
166	100		
165	89.0	80.1	120.1
167	21.7	10.8	16.2#





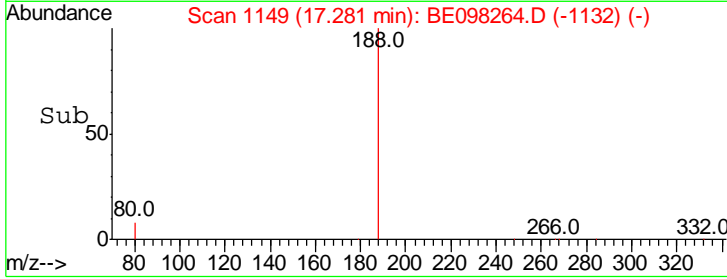
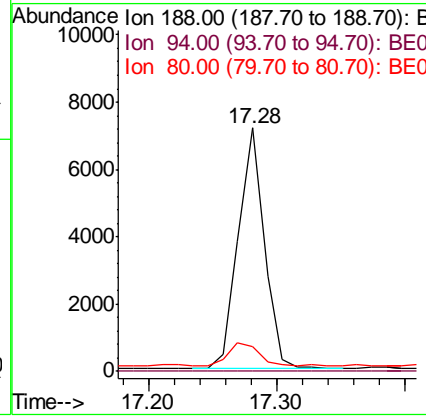
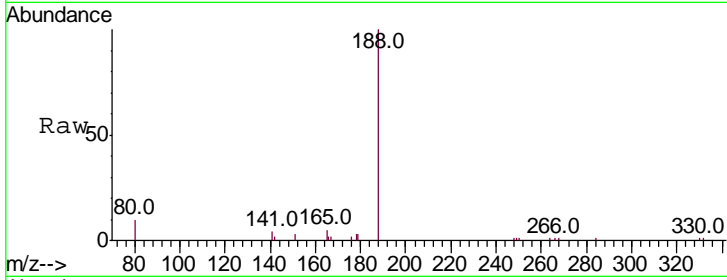
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.28 min Scan# 1149
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
188	10152		
94	0.0	0.0	0.0
80	9.9	6.7	10.1

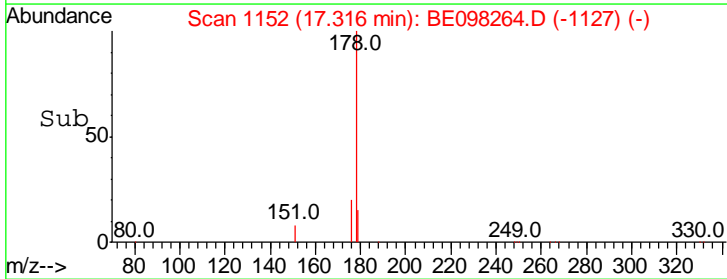
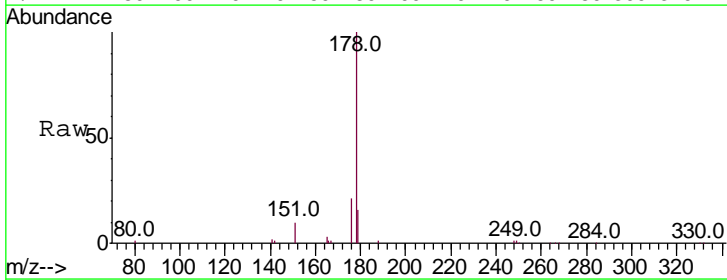
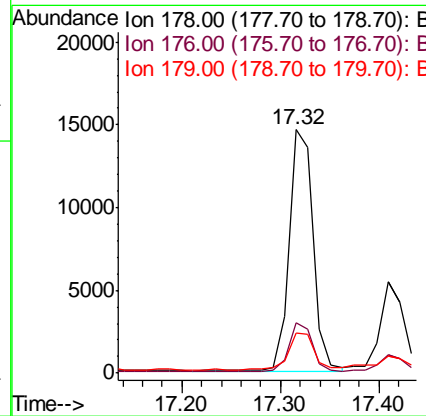
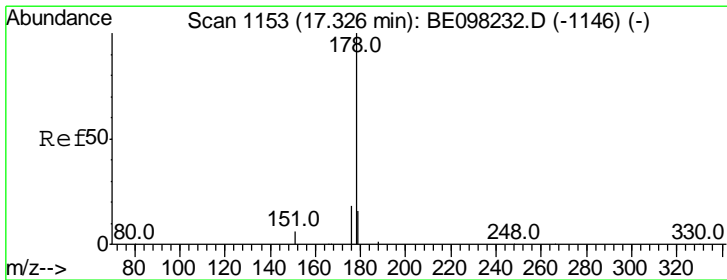
Manual Integrations
 APPROVED

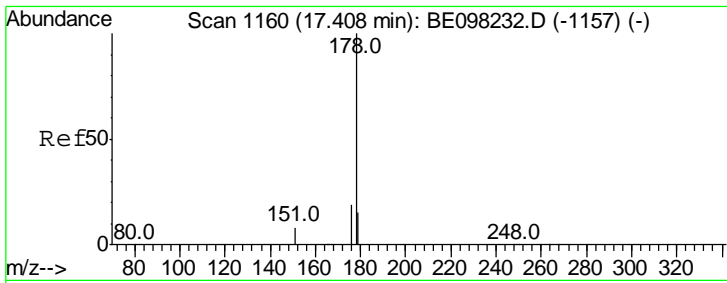
mohammad
 11/23/2018 11:47:41 AM



#23
 Phenanthrene
 Concen: 0.934 ng
 RT: 17.32 min Scan# 1152
 Delta R.T. -0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

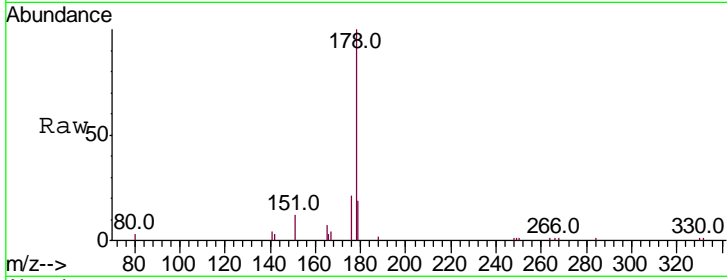
Tgt Ion	Resp	Lower	Upper
178	24392		
176	19.3	15.8	23.8
179	16.8	12.3	18.5





#24
 Anthracene
 Concen: 0.352 ng
 RT: 17.41 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

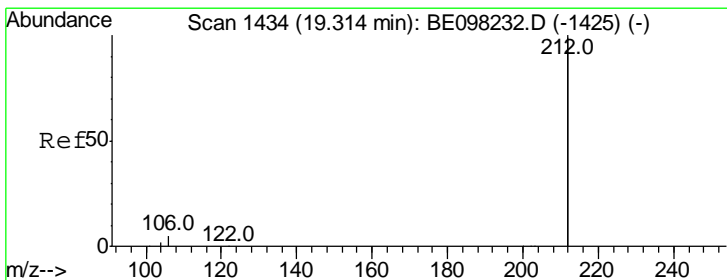
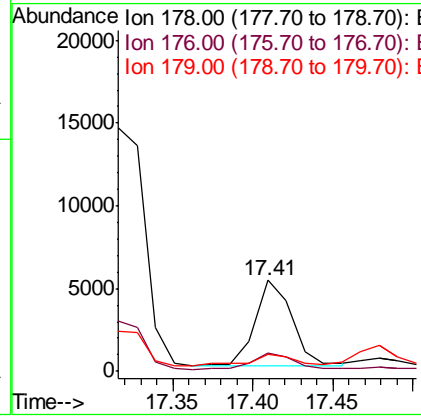
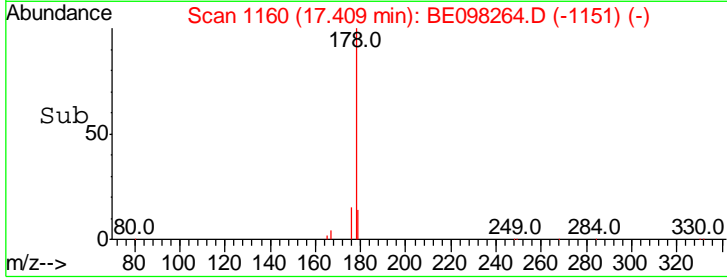
Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL



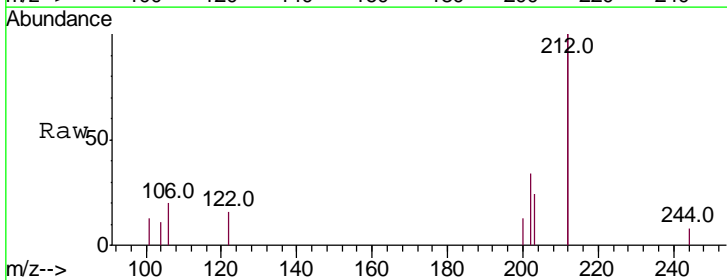
Tgt Ion: 178 Resp: 8353

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	16.4	12.1	18.1

Manual Integrations
 APPROVED
 mohammad
 11/23/2018 11:47:41 AM

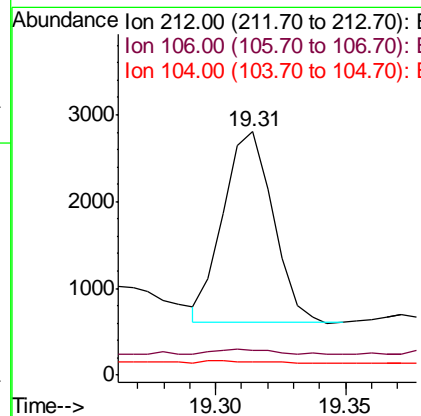
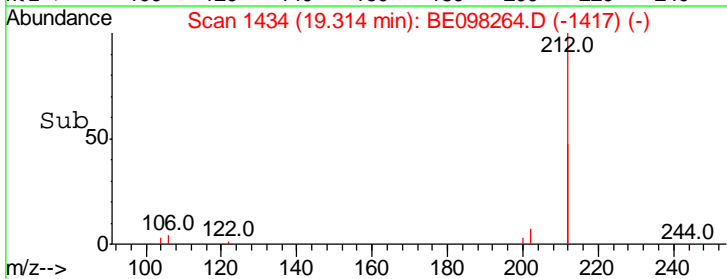


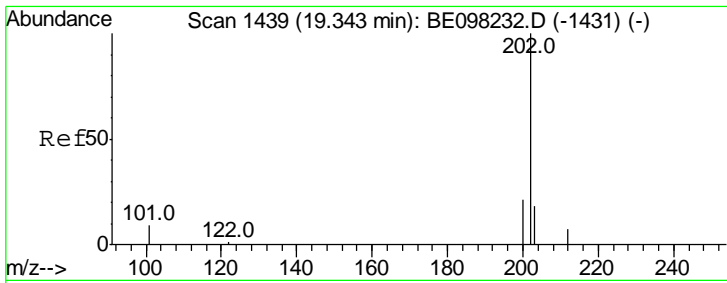
#25
 Fluoranthene-d10
 Concen: 0.024 ng
 RT: 19.31 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24



Tgt Ion: 212 Resp: 2951

Ion	Ratio	Lower	Upper
212	100		
106	3.3	1.8	2.8#
104	2.0	1.1	1.7#





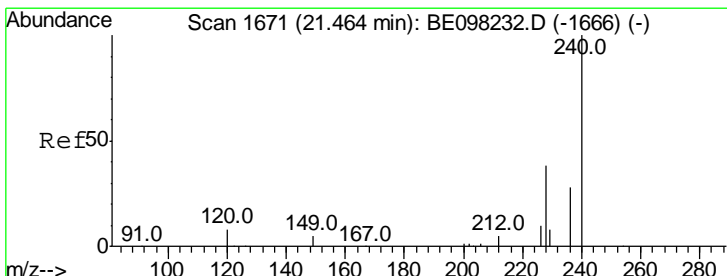
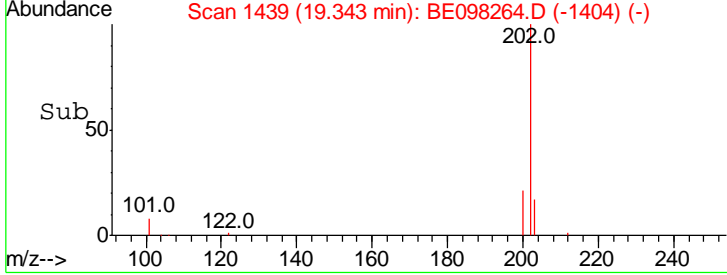
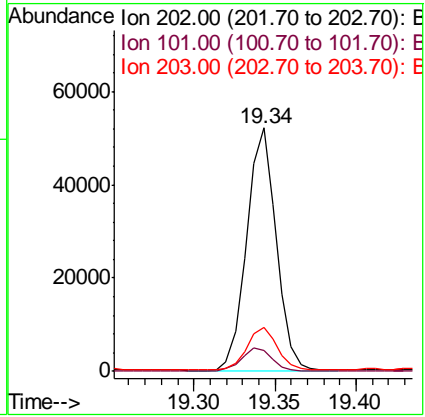
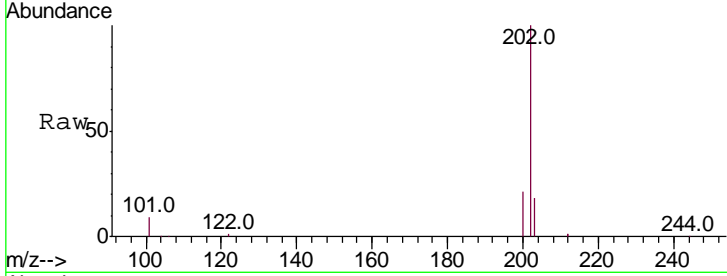
#26
 Fluoranthene
 Concen: 2.090 ng
 RT: 19.34 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
202	100		
101	9.6	7.0	10.6
203	17.5	13.7	20.5

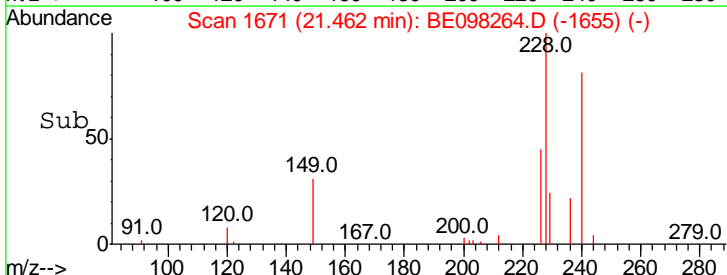
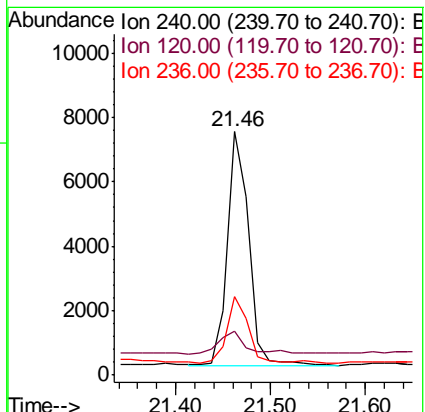
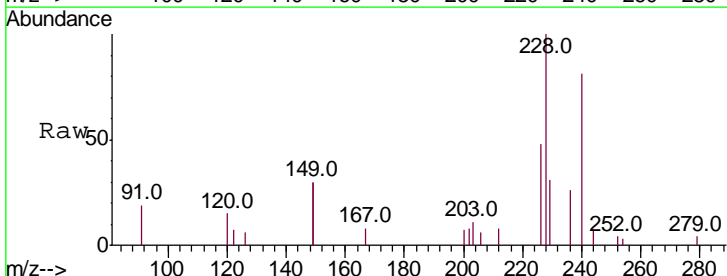
Manual Integrations
 APPROVED

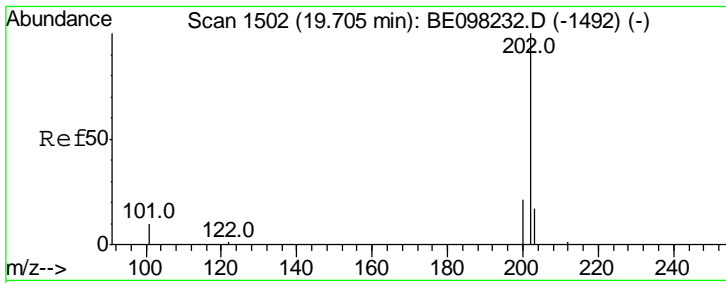
mohammad
 11/23/2018 11:47:41 AM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.46 min Scan# 1671
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
240	100		
120	18.0	4.8	7.2#
236	32.5	21.4	32.0#





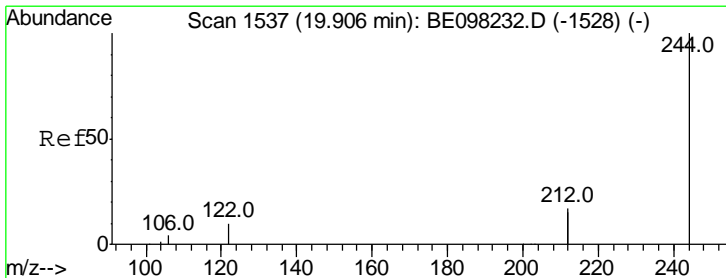
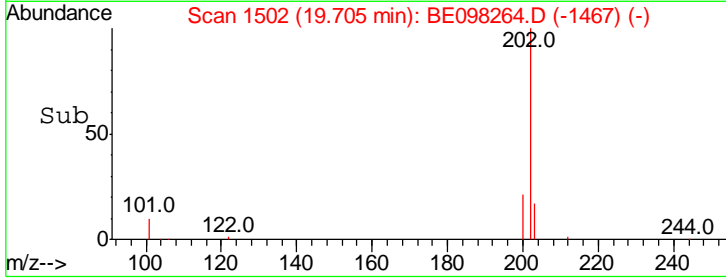
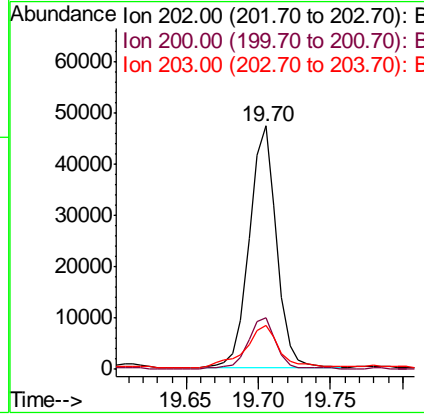
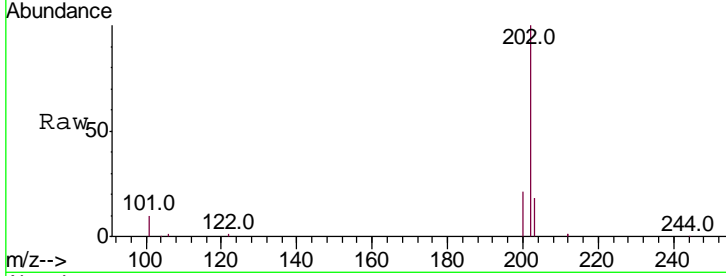
#28
 Pyrene
 Concen: 1.897 ng
 RT: 19.70 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	21.3	14.2	21.4

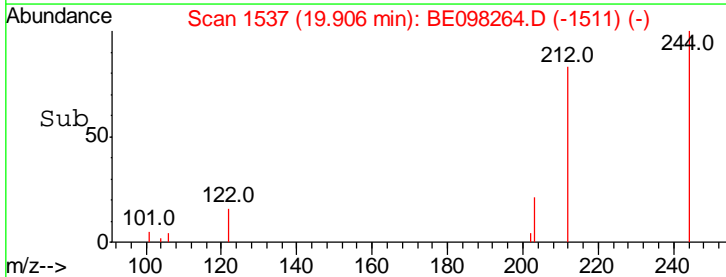
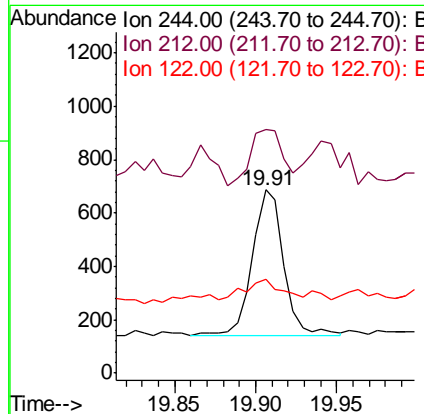
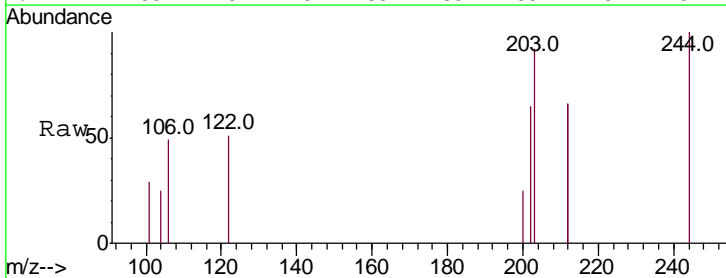
Manual Integrations
 APPROVED

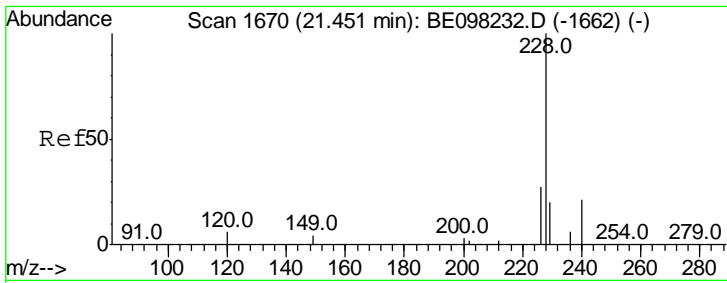
mohammad
 11/23/2018 11:47:41 AM



#29
 Terphenyl-d14
 Concen: 0.028 ng
 RT: 19.91 min Scan# 1537
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
244	100		
212	132.8	26.8	40.2#
122	51.1	7.0	10.6#





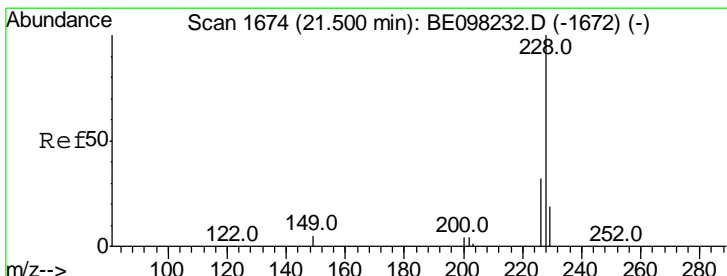
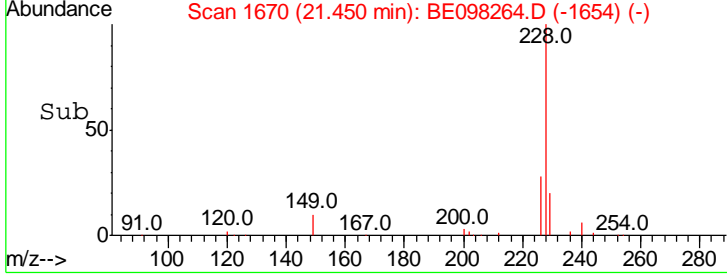
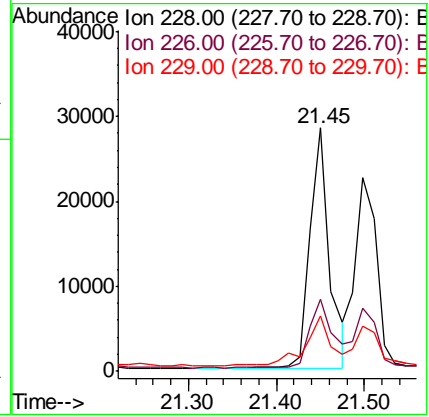
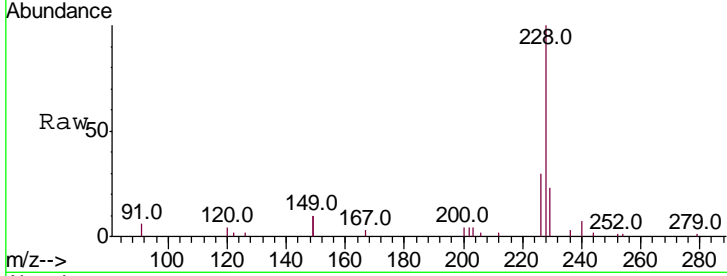
#30
 Benzo(a)anthracene
 Concen: 1.372 ng
 RT: 21.45 min Scan# 1670
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Resp	Lower	Upper
228	100		
226	29.9	20.7	31.1
229	22.8	16.2	24.4

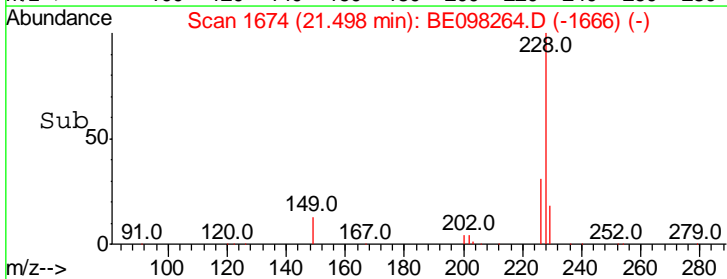
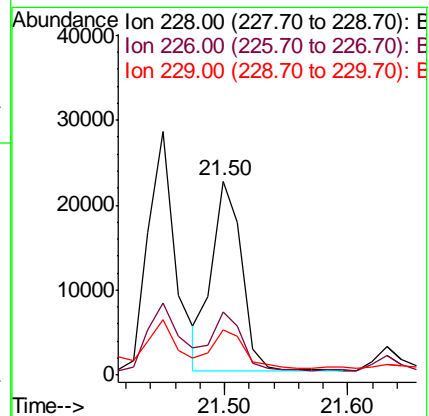
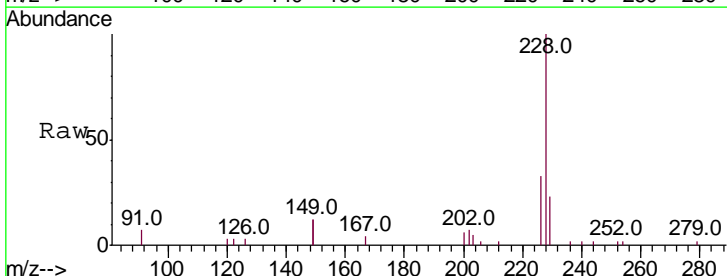
Manual Integrations
 APPROVED

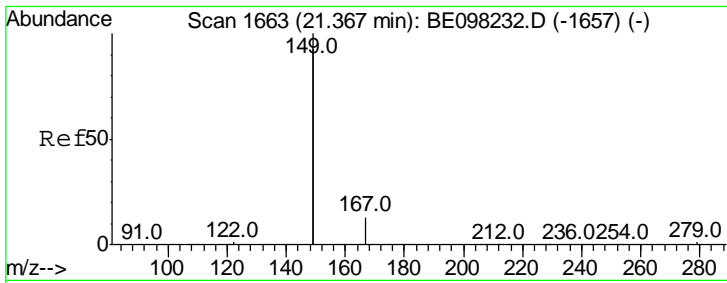
mohammad
 11/23/2018 11:47:41 AM



#31
 Chrysene
 Concen: 1.109 ng
 RT: 21.50 min Scan# 1674
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
228	100		
226	32.8	24.6	36.8
229	23.1	16.0	24.0





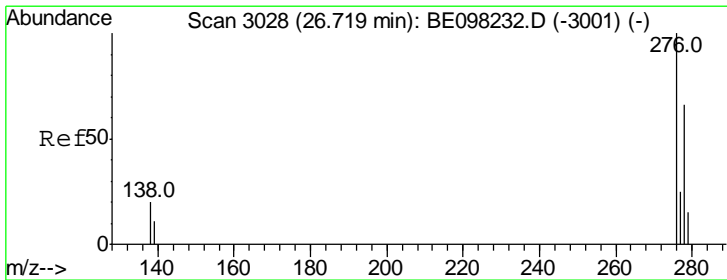
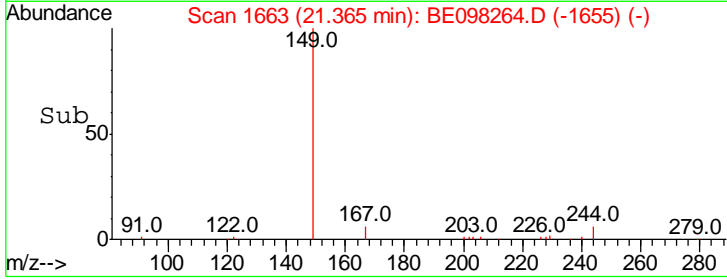
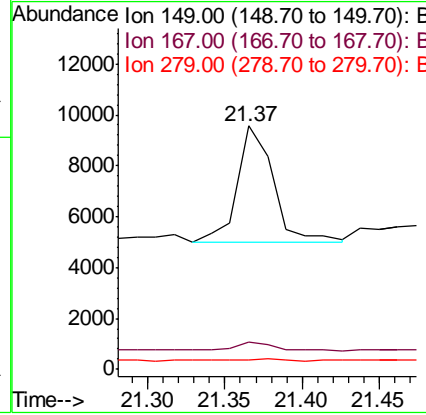
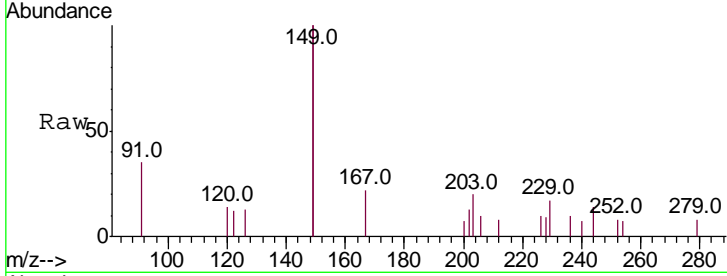
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.144 ng
 RT: 21.37 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion	Ratio	Lower	Upper
149	100		
167	9.2	5.6	8.4#
279	1.3	0.9	1.3

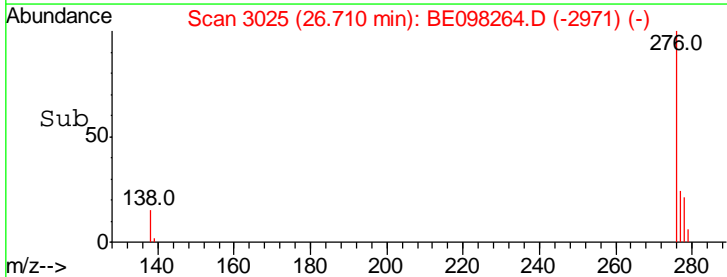
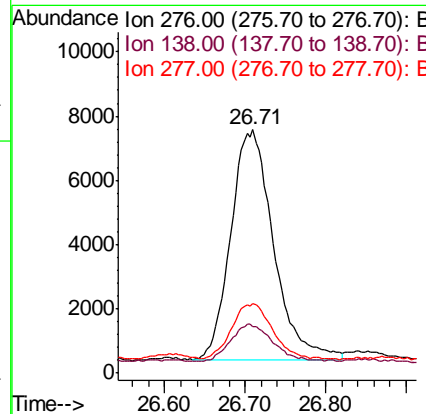
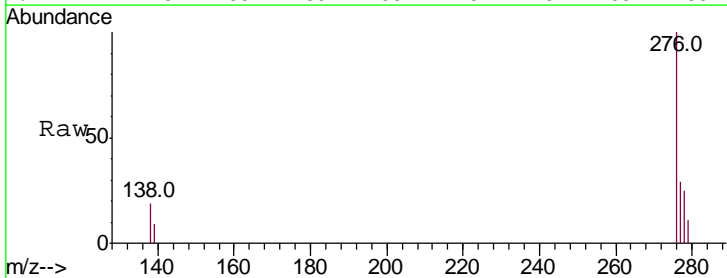
Manual Integrations
 APPROVED

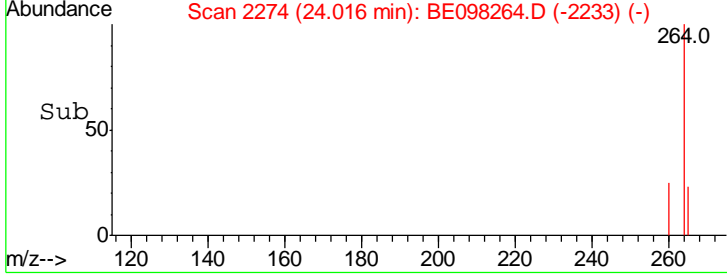
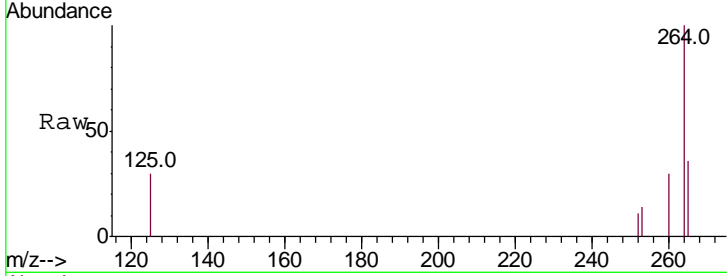
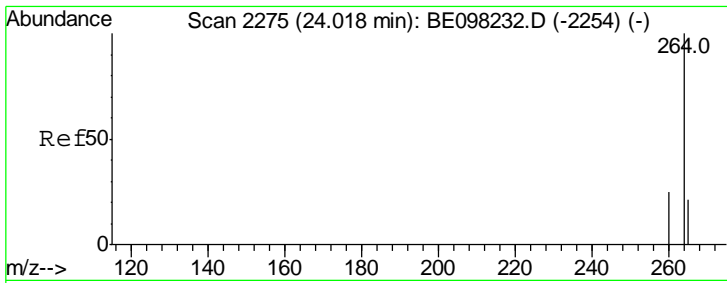
mohammad
 11/23/2018 11:47:41 AM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.923 ng
 RT: 26.71 min Scan# 3025
 Delta R.T. -0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.0	6.4	9.6#
277	21.9	18.9	28.3



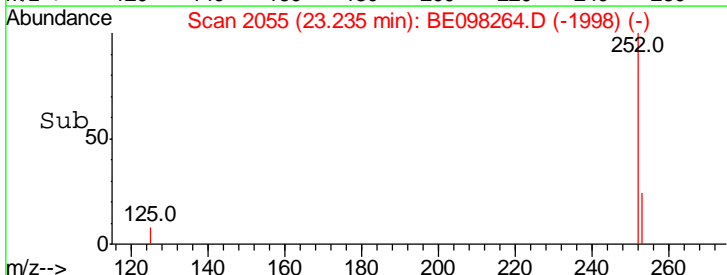
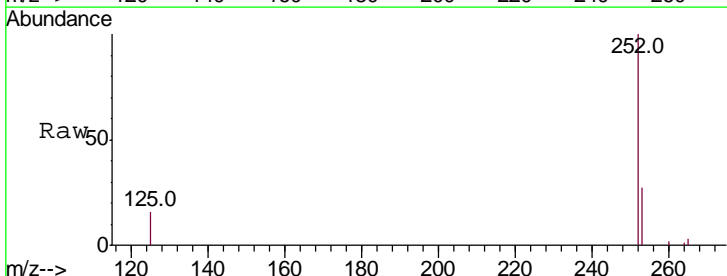
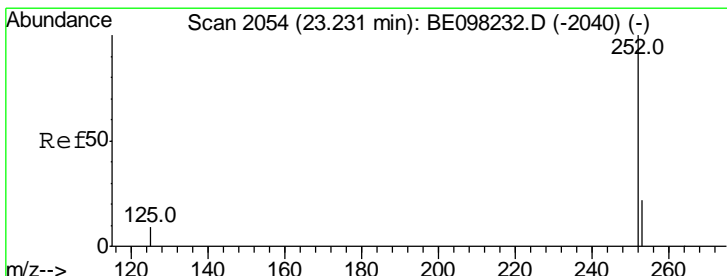
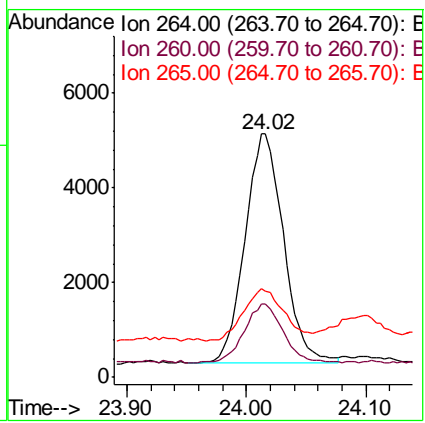


#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.02 min Scan# 2274
 Delta R.T. -0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
264	10849		
260	29.9	19.9	29.9#
265	35.6	21.3	31.9#

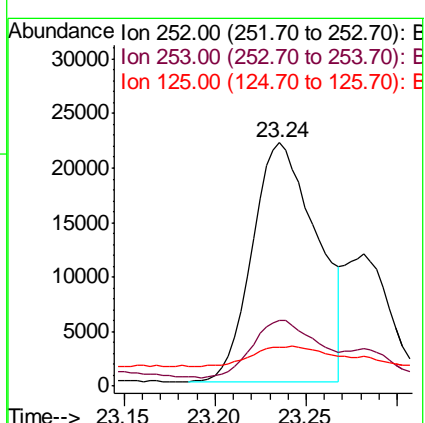
Instrument : BNA_E
 ClientSampled : AOC8-01R-CDL

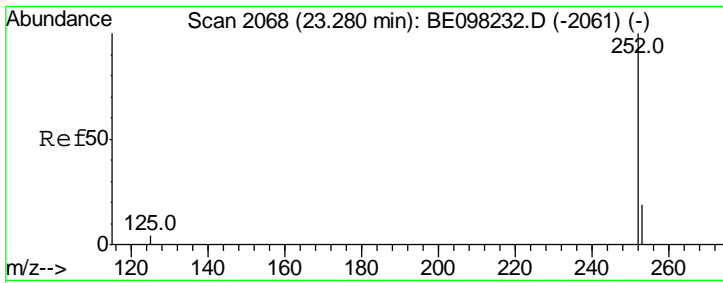
Manual Integrations APPROVED
 mohammad
 11/23/2018 11:47:41 AM



#35
 Benzo(b)fluoranthene
 Concen: 1.763 ng
 RT: 23.24 min Scan# 2055
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion	Resp	Lower	Upper
252	54017		
253	26.9	19.4	29.0
125	16.2	8.6	12.8#





#36
 Benzo(k)fluoranthene
 Concen: 0.603 ng m
 RT: 23.28 min Scan# 2068
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

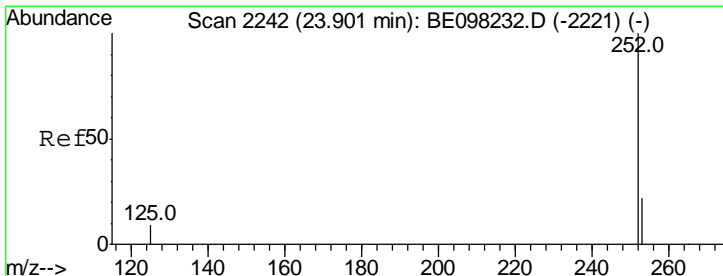
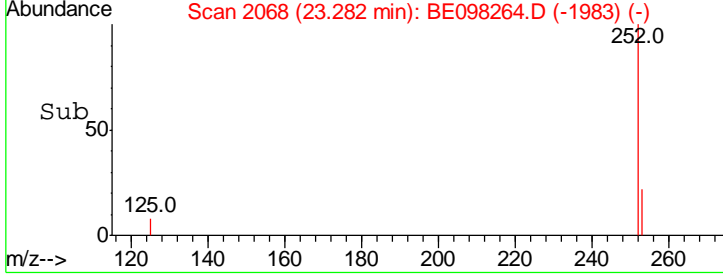
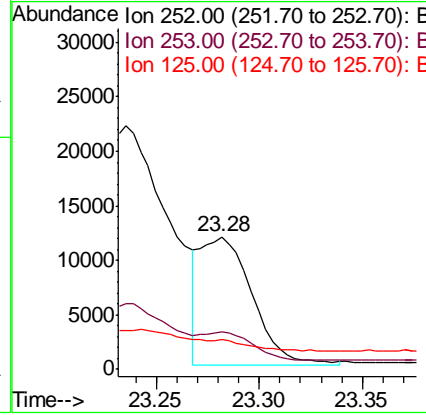
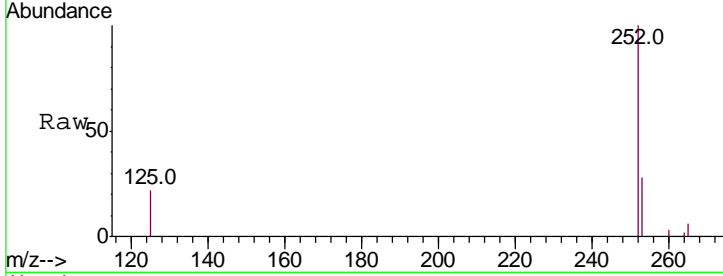
Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL

Tgt Ion: 252 Resp: 20876

Ion	Ratio	Lower	Upper
252	100		
253	28.0	18.6	28.0#
125	22.1	7.4	11.0#

Manual Integrations
 APPROVED

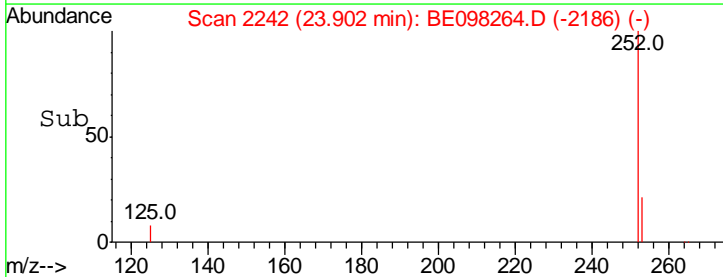
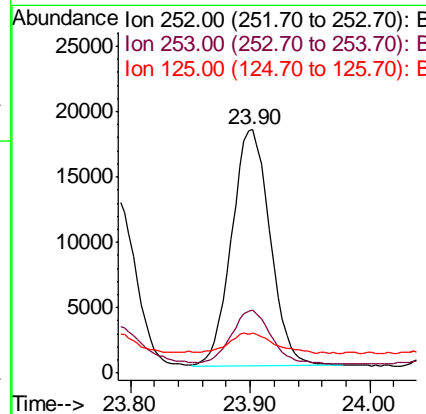
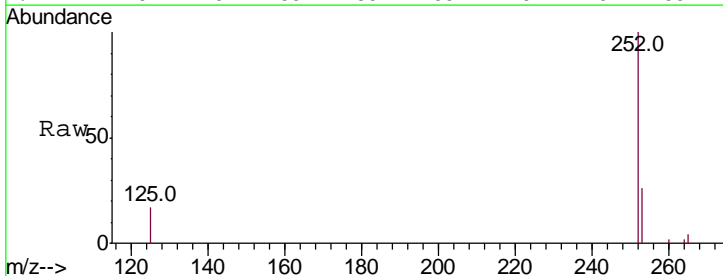
mohammad
 11/23/2018 11:47:41 AM

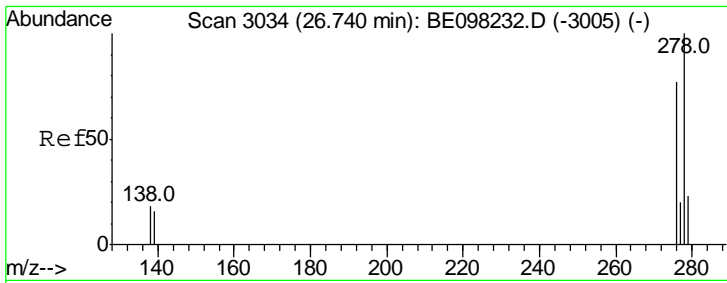


#37
 Benzo(a)pyrene
 Concen: 1.337 ng
 RT: 23.90 min Scan# 2242
 Delta R.T. 0.00 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

Tgt Ion: 252 Resp: 40212

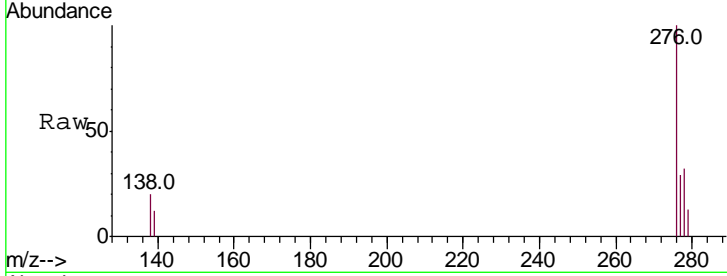
Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.6	27.8
125	16.6	8.0	12.0#





#38
 Dibenzo(a,h)anthracene
 Concen: 0.277 ng
 RT: 26.72 min Scan# 3028
 Delta R.T. -0.02 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24

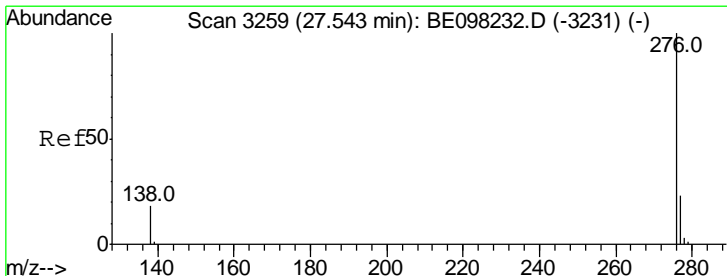
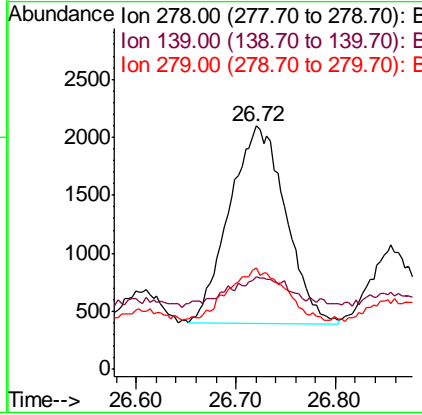
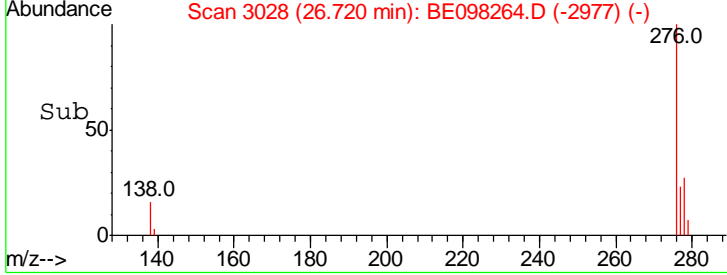
Instrument :
 BNA_E
 ClientSampled :
 AOC8-01R-CDL



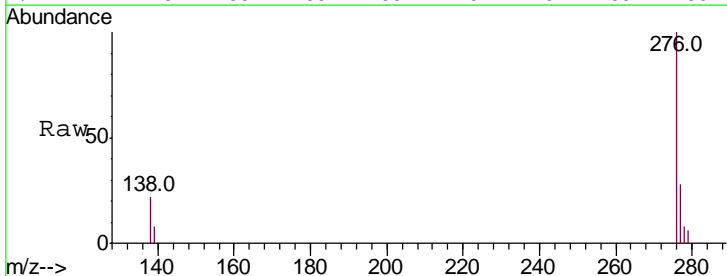
Tgt Ion	Resp	Lower	Upper
278	100		
139	37.8	16.4	24.6#
279	41.6	21.3	31.9#

Manual Integrations
 APPROVED

mohammad
 11/23/2018 11:47:41 AM



#39
 Benzo(g,h,i)perylene
 Concen: 0.955 ng
 RT: 27.54 min Scan# 3257
 Delta R.T. -0.01 min
 Lab File: BE098264.D
 Acq: 21 Nov 2018 16:24



Tgt Ion	Resp	Lower	Upper
276	100		
277	28.0	20.4	30.6
138	21.8	13.2	19.8#

