

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100334.D
 Acq On : 3 Jul 2019 18:26
 Operator : JU/SJ
 Sample : K3446-06DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:00 AM

Quant Time: Jul 04 01:25:35 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	7.64	152	493	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	1937	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1780	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5597	0.40	ng	0.00
27) Chrysene-d12	21.24	240	7466	0.40	ng	0.00
34) Perylene-d12	23.67	264	8491	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	31	0.02	ng	-0.01
5) Phenol-d6	0.00	99	0d	0.00	ng	
8) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
11) 2-Methylnaphthalene-d10	12.05	152	146	0.04	ng	0.00
14) 2,4,6-Tribromophenol	15.82	330	14	0.01	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	210	0.03	ng	0.00
25) Fluoranthene-d10	19.09	212	2804	0.03	ng	0.00
29) Terphenyl-d14	19.69	244	1880	0.12	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.48	128	8417	0.394	ng	98
12) 2-Methylnaphthalene	12.12	142	970	0.259	ng	97
16) Acenaphthylene	14.04	152	2495	0.292	ng	98
17) Acenaphthene	14.37	154	1947	0.402	ng	98
18) Fluorene	15.35	166	4631	0.647	ng	95
23) Phenanthrene	17.09	178	79116	5.832	ng	100
24) Anthracene	17.19	178	18570	1.520	ng	97
26) Fluoranthene	19.12	202	137255	6.352	ng	99
28) Pyrene	19.48	202	115308	5.834	ng	96
30) Benzo(a)anthracene	21.22	228	82211	3.349	ng	99
31) Chrysene	21.28	228	71970	2.920	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	8555	0.189	ng	# 97
33) Indeno(1,2,3-cd)pyrene	26.22	276	36812	1.129	ng	# 97
35) Benzo(b)fluoranthene	22.92	252	78340	3.403	ng	97
36) Benzo(k)fluoranthene	22.96	252	30540m	1.188	ng	
37) Benzo(a)pyrene	23.55	252	56202m	2.436	ng	
38) Dibenzo(a,h)anthracene	26.23	278	9434	0.392	ng	# 89
39) Benzo(a,h,i)perylene	27.01	276	35200	1.422	ng	99

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



#1

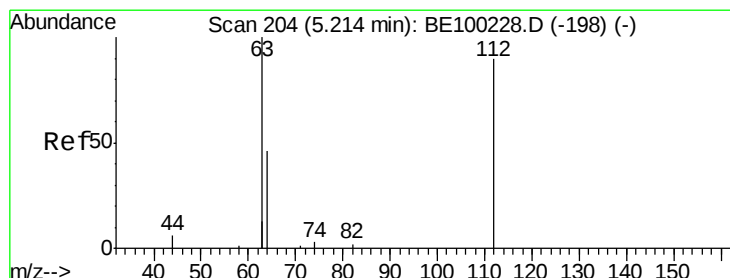
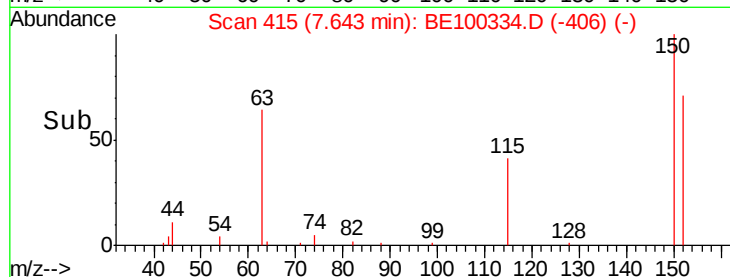
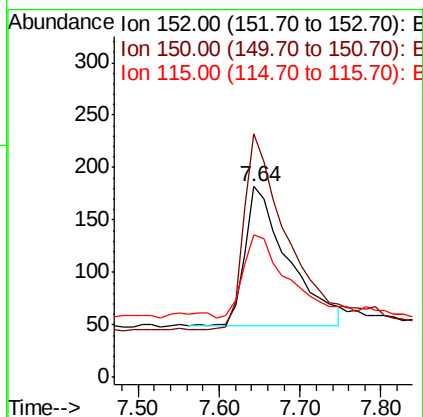
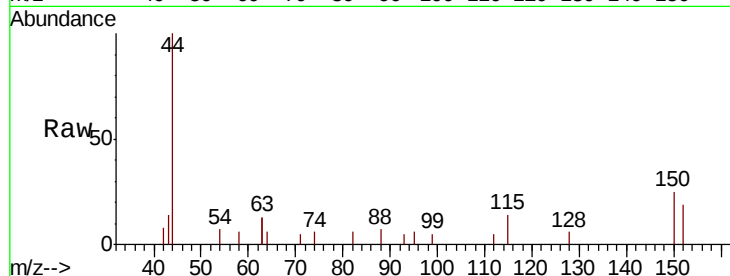
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.64 min Scan# 415
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	127.5	114.5	171.7
115	74.7	57.1	85.7

Manual Integrations
APPROVED

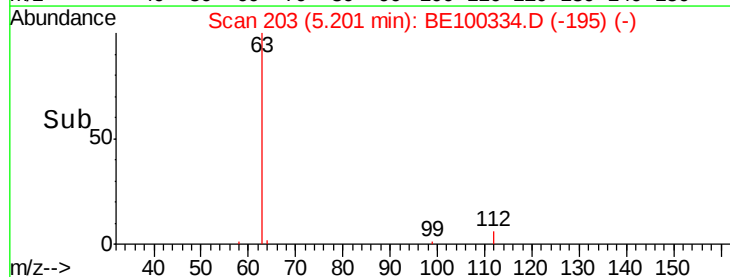
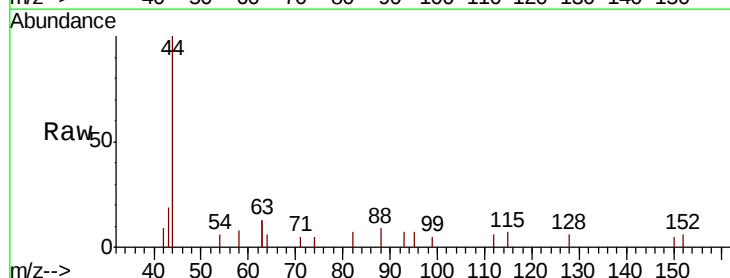
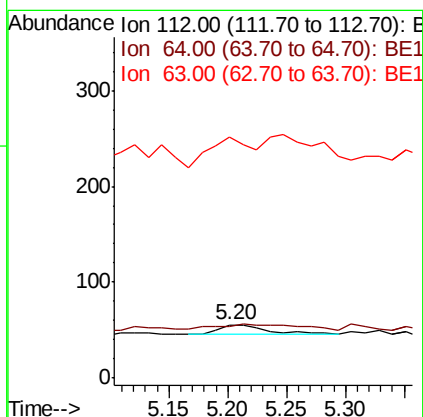
mohammad
7/5/2019 8:54:00 AM

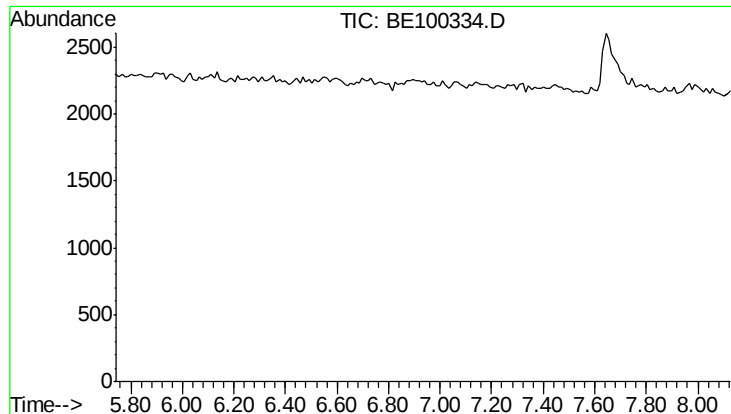


#4

2-Fluorophenol
Concen: 0.025 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	90.3	39.4	59.0#
63	248.4	104.5	156.7#





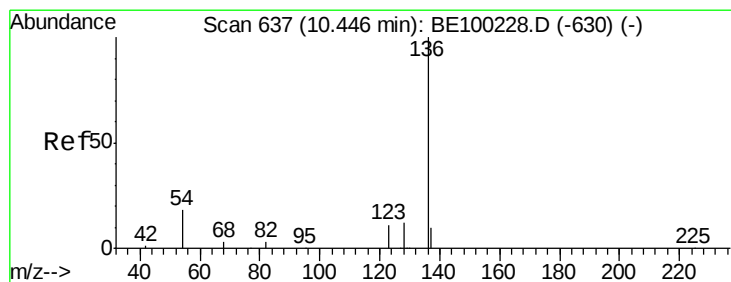
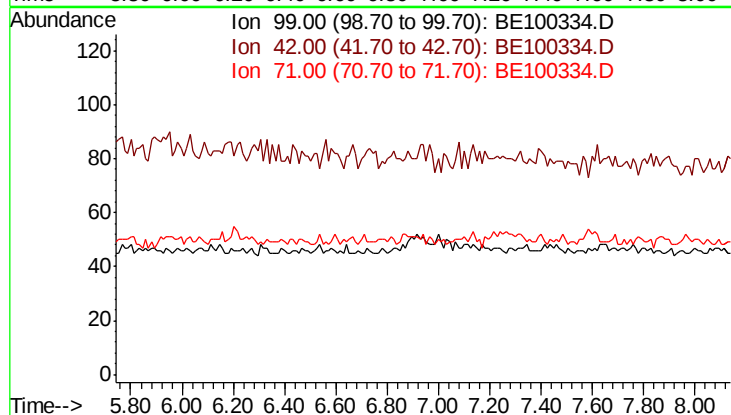
#5
 Phenol-d6
 Concen: 0.000 ng
 Expected RT: 6.84 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	99
Sig	Exp Ratio
99	100
42	14.0
71	46.5

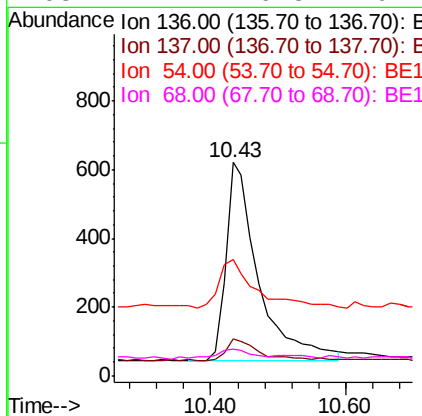
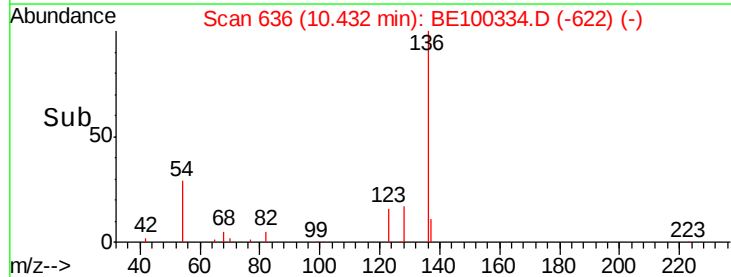
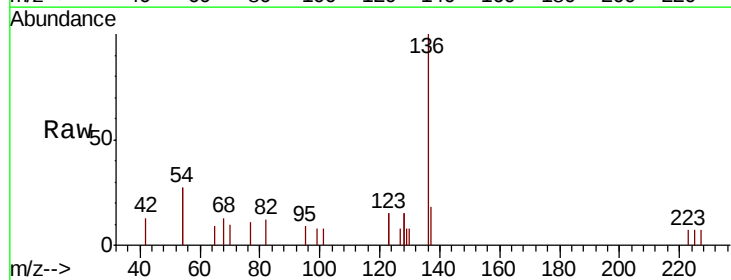
Manual Integrations
 APPROVED

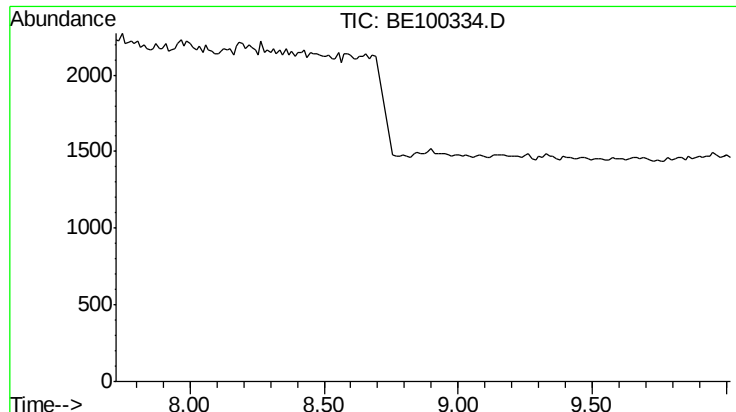
mohammad
 7/5/2019 8:54:00 AM



#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.43 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Tgt Ion	136	Resp	1937
Ion Ratio	Lower	Upper	
136	100		
137	17.6	11.8	17.8
54	54.4	27.7	41.5#
68	12.7	6.8	10.2#





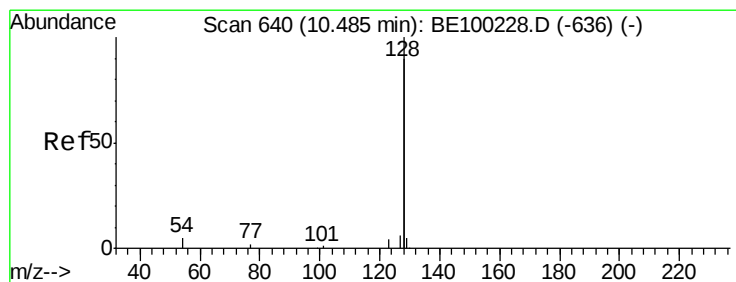
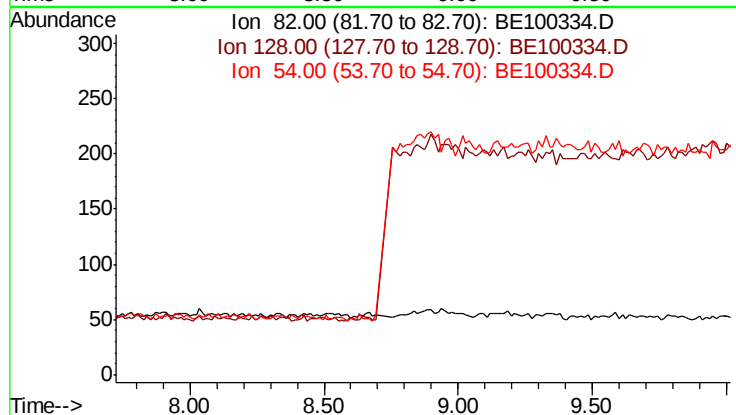
#8
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 8.82 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	82
Sig	Exp Ratio
82	100
128	176.1
54	182.7

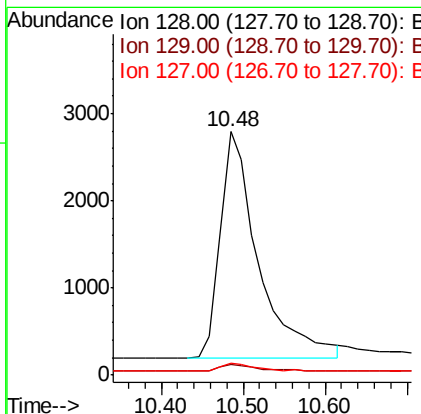
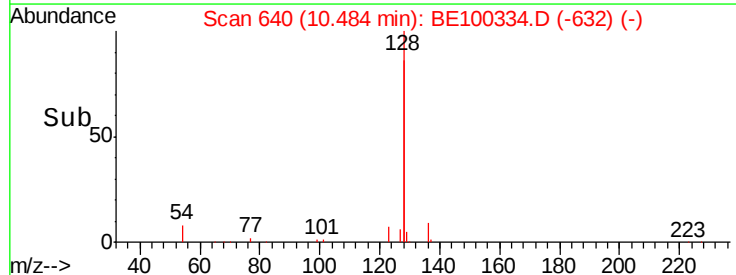
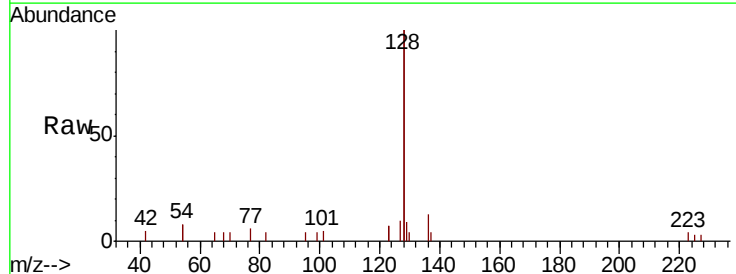
Manual Integrations
 APPROVED

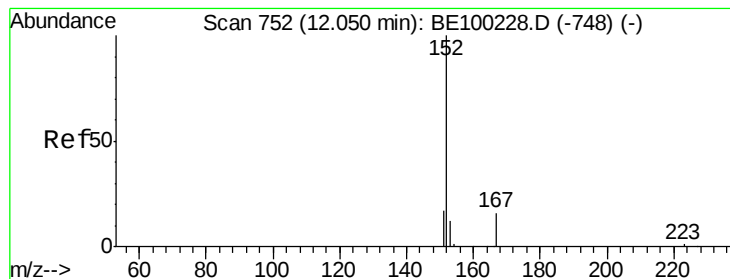
mohammad
 7/5/2019 8:54:00 AM



#9
 Naphthalene
 Concen: 0.394 ng
 RT: 10.48 min Scan# 640
 Delta R.T. -0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Tgt Ion	128	Resp	8417
Ion	Ratio	Lower	Upper
128	100		
129	4.4	3.0	4.6
127	4.9	3.5	5.3





#11

2-Methylnaphthalene-d10

Concen: 0.040 ng

RT: 12.05 min Scan# 752

Delta R.T. -0.00 min

Lab File: BE100334.D

Acq: 3 Jul 2019 18:26

Instrument :

BNA_E

ClientSampleId :

PST-008-B253-061819DL

Tot Ion:152 Resp: 146

Ion Ratio Lower Upper

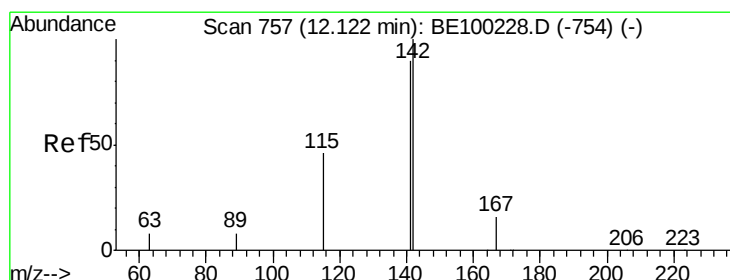
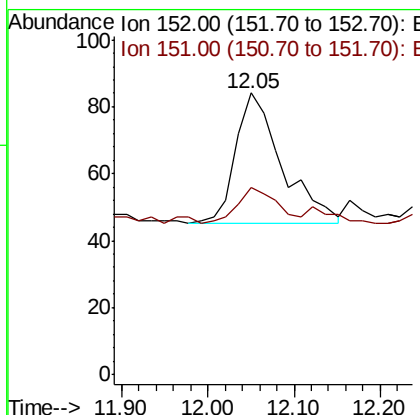
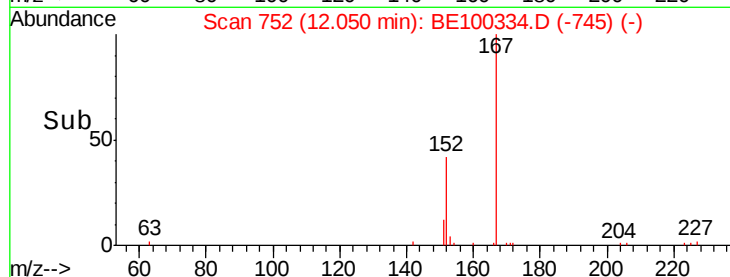
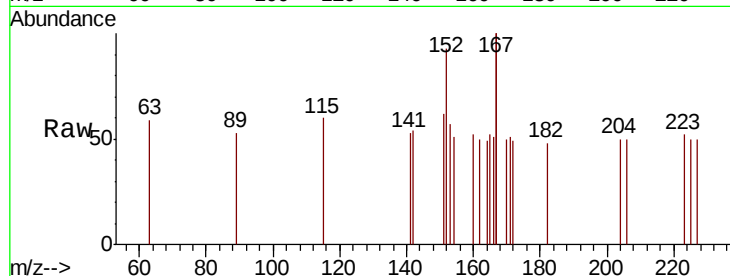
152 100

151 24.0 15.1 22.7#

Manual Integrations
APPROVED

mohammad

7/5/2019 8:54:00 AM



#12

2-Methylnaphthalene

Concen: 0.259 ng

RT: 12.12 min Scan# 757

Delta R.T. -0.00 min

Lab File: BE100334.D

Acq: 3 Jul 2019 18:26

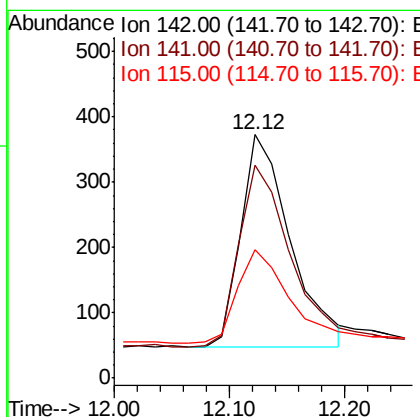
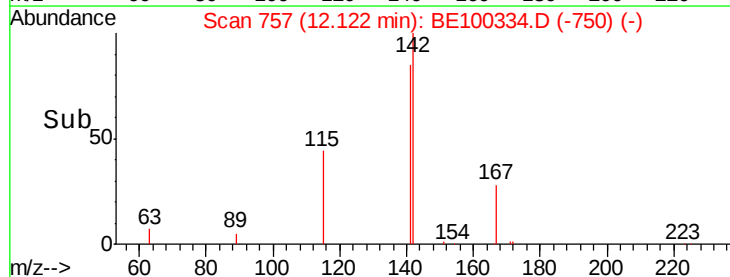
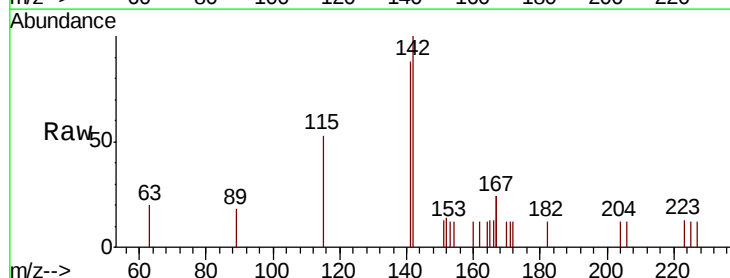
Tgt Ion:142 Resp: 970

Ion Ratio Lower Upper

142 100

141 87.7 72.4 108.6

115 52.5 40.4 60.6





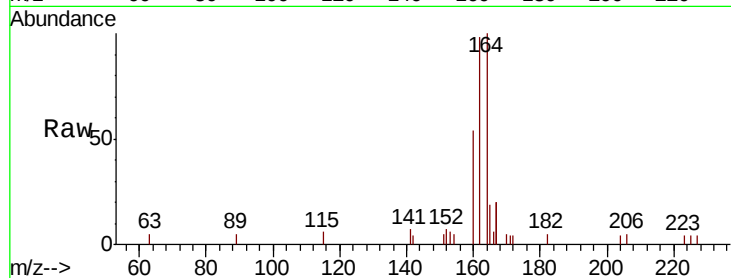
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.5	83.4	125.0
160	53.8	45.0	67.6

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM

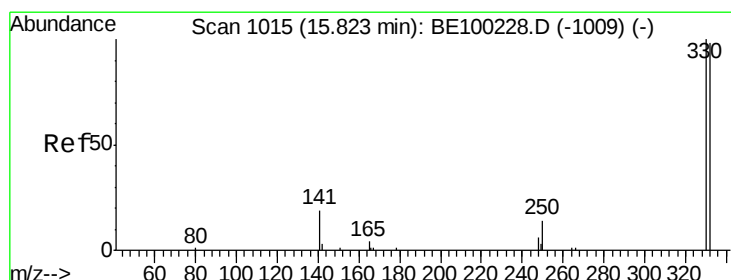
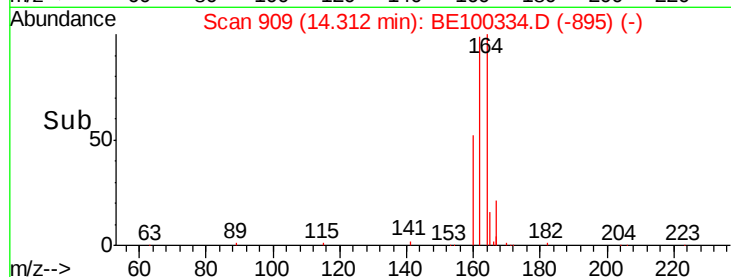
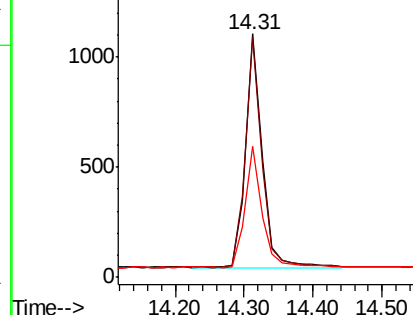


Abundance

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: 0.011 ng
RT: 15.82 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

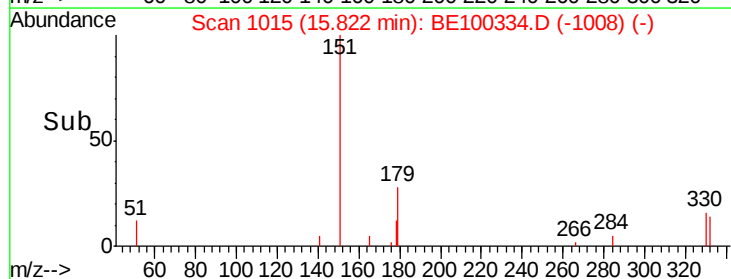
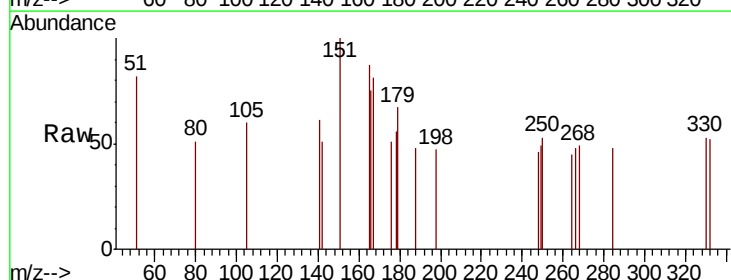
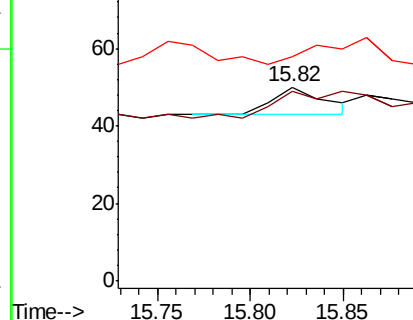
Tgt Ion	Ratio	Lower	Upper
330	100		
332	250.0	77.0	115.4#
141	0.0	22.0	33.0#

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





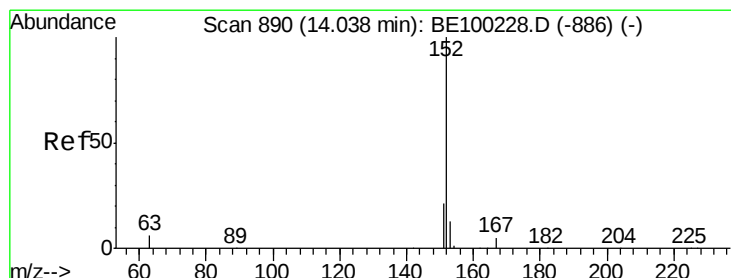
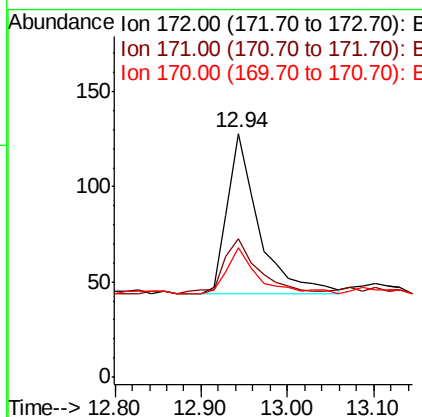
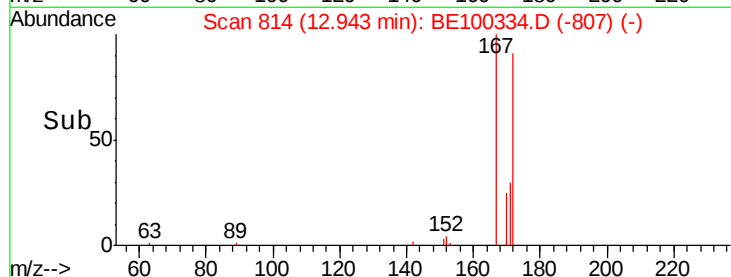
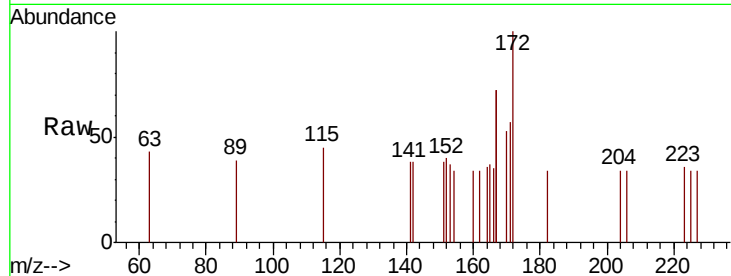
#15
2-Fluorobiphenyl
Concen: 0.030 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	57.0	31.9	47.9#
170	53.1	22.2	33.2#

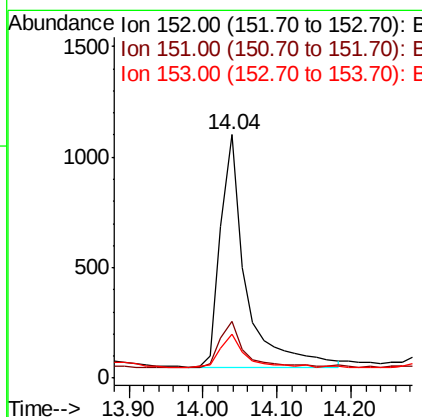
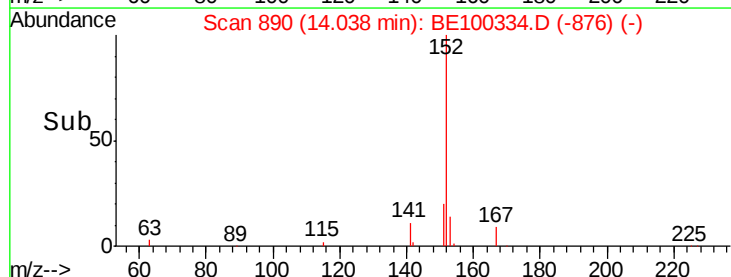
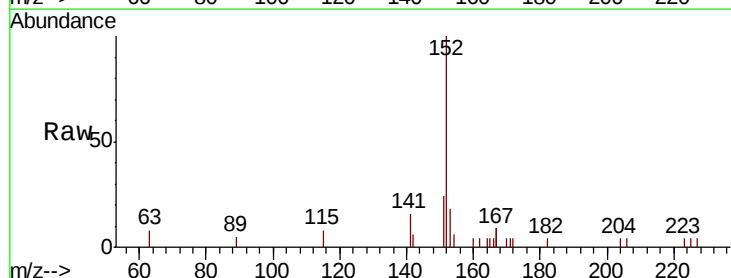
Manual Integrations
APPROVED

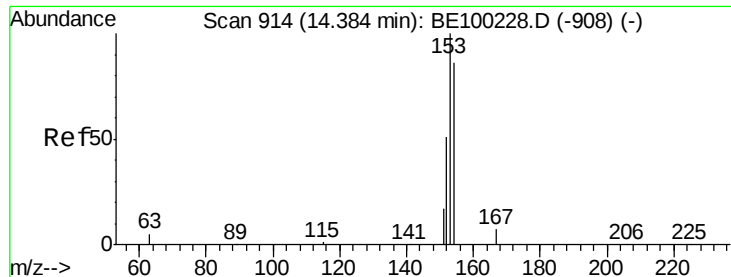
mohammad
7/5/2019 8:54:00 AM



#16
Acenaphthylene
Concen: 0.292 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	25.0
153	14.0	10.5	15.7





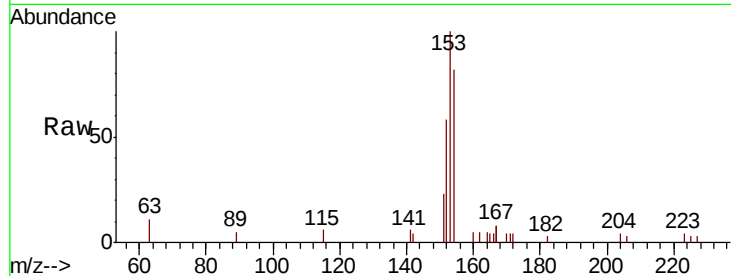
#17
Acenaphthene
Concen: 0.402 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.3	93.4	140.2
152	66.1	49.4	74.2

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM

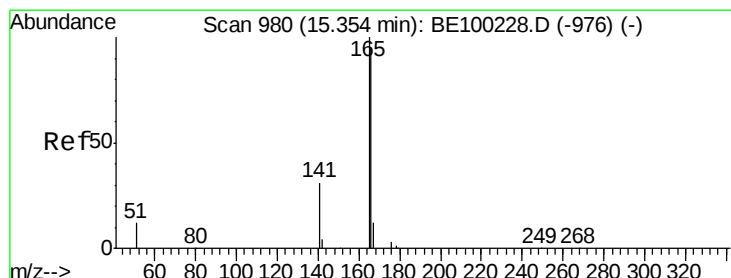
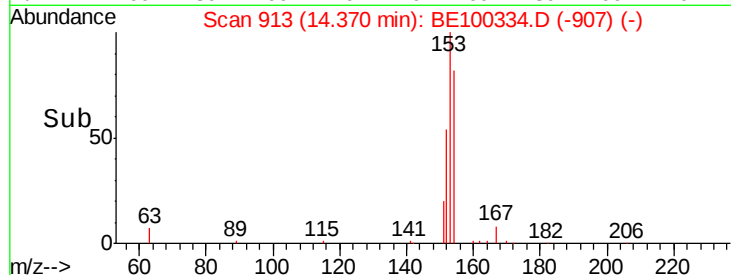
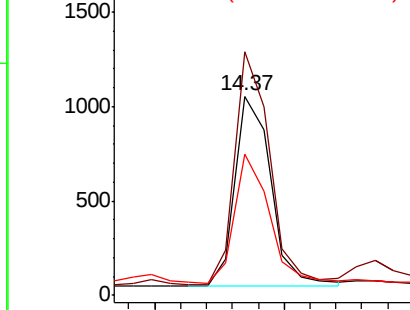


Abundance

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



#18
Fluorene
Concen: 0.647 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

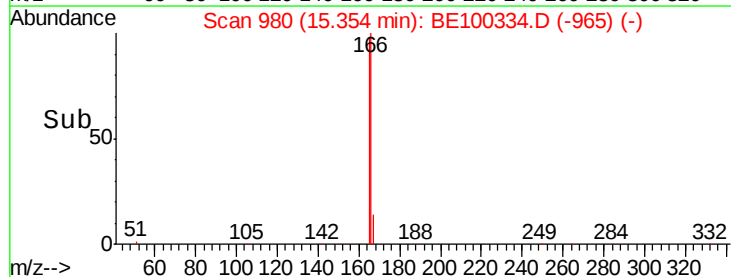
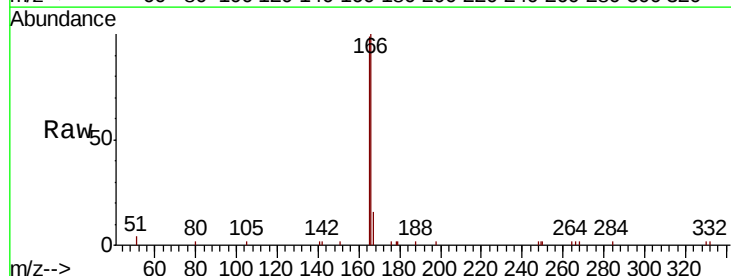
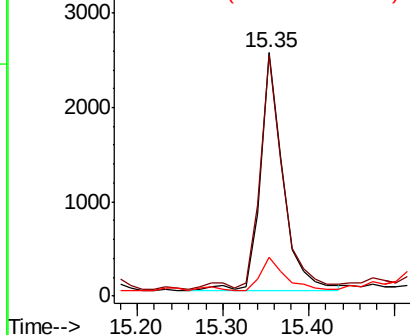
Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.9	81.1	121.7
167	15.1	10.7	16.1

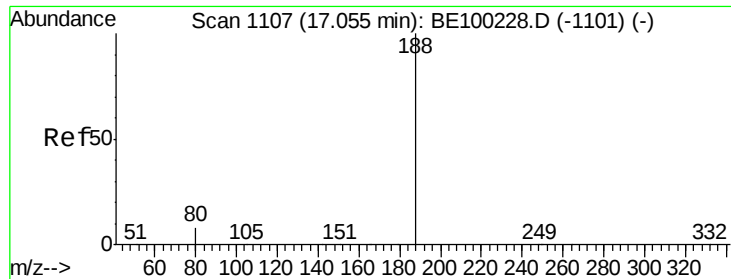
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





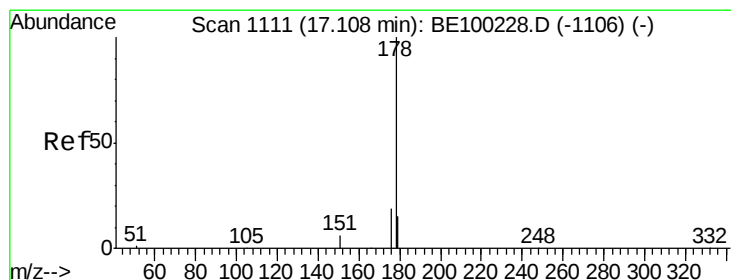
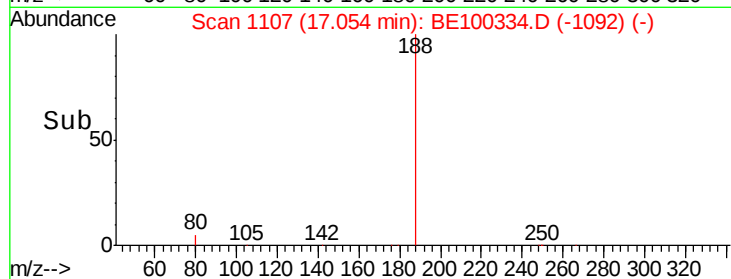
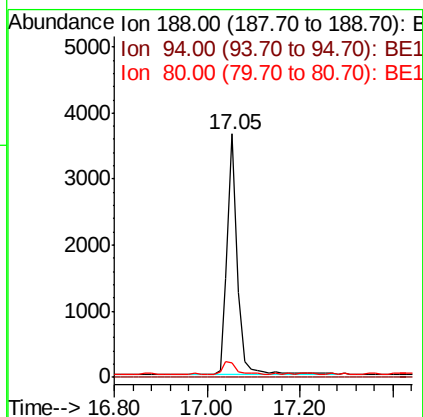
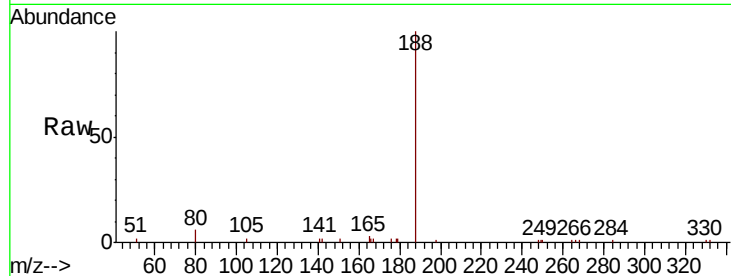
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	5597		
94	0.0	0.0	0.0	
80	5.9	7.6	11.4	

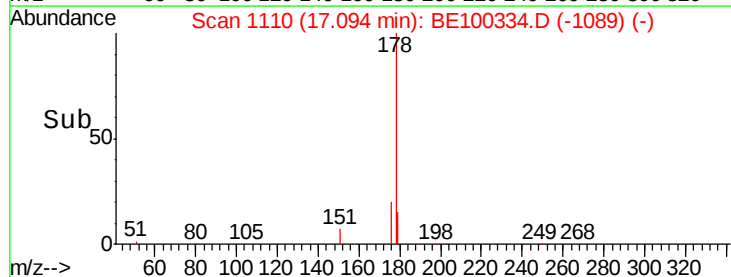
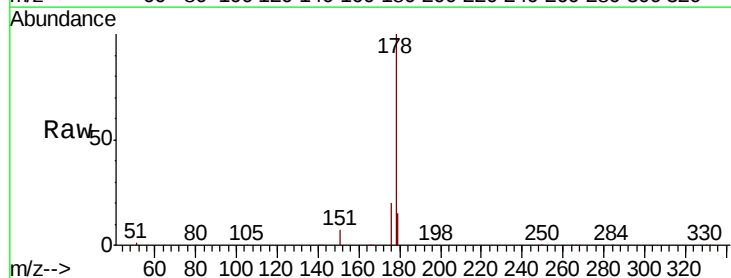
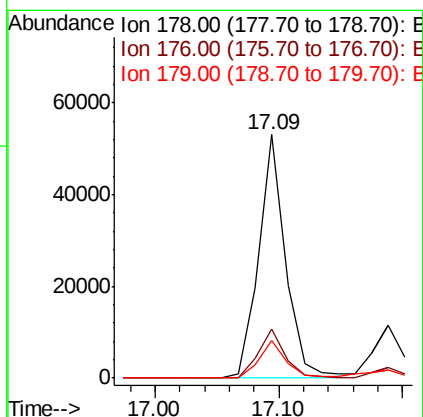
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM



#23
Phenanthrene
Concen: 5.832 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	79116		
176	19.8	15.9	23.9	
179	15.3	12.2	18.2	





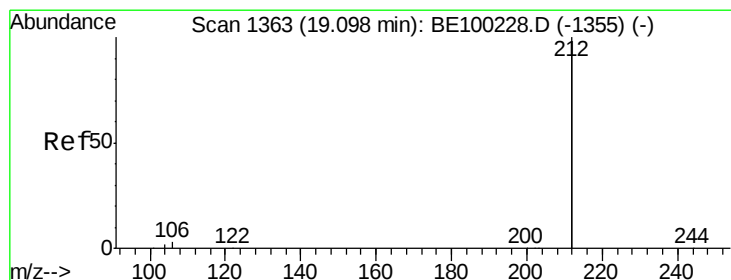
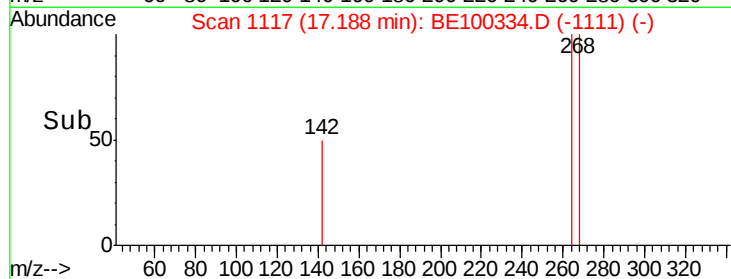
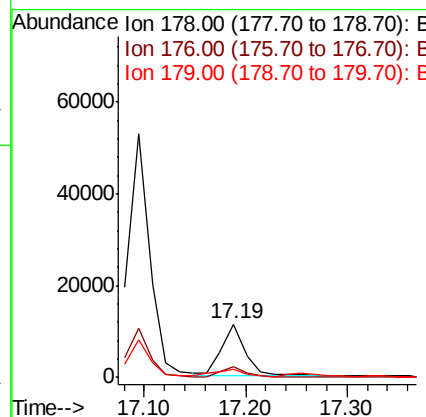
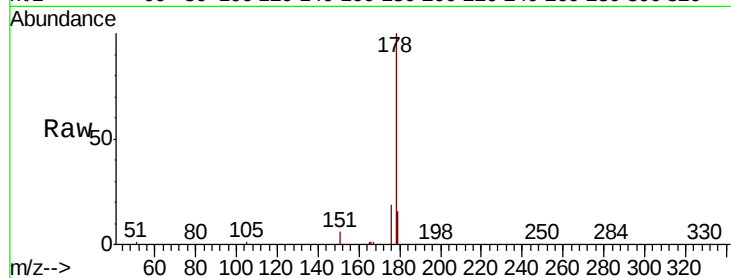
#24
 Anthracene
 Concen: 1.520 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	17.7	12.2	18.2

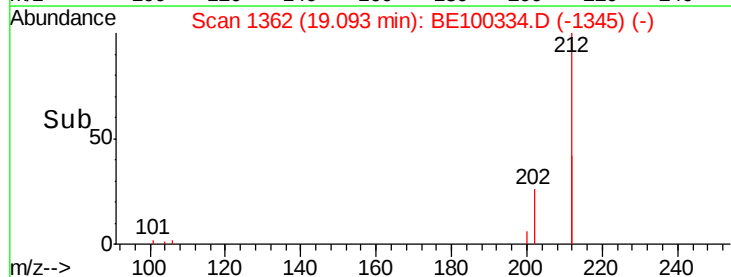
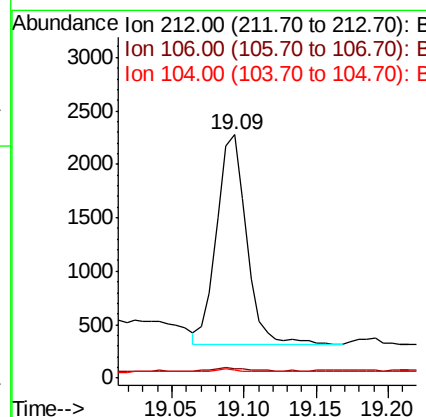
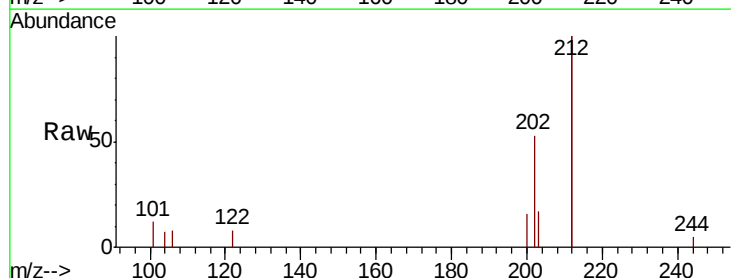
Manual Integrations
 APPROVED

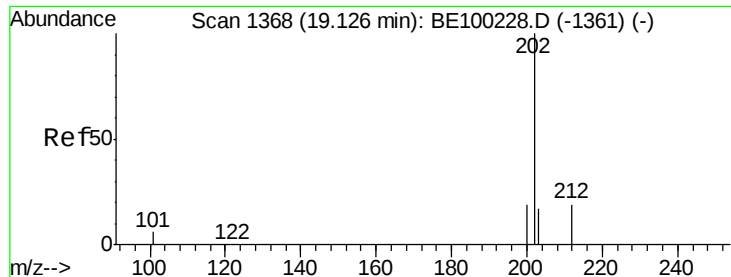
mohammad
 7/5/2019 8:54:00 AM



#25
 Fluoranthene-d10
 Concen: 0.035 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.6	1.3	1.9
104	1.6	0.8	1.2#





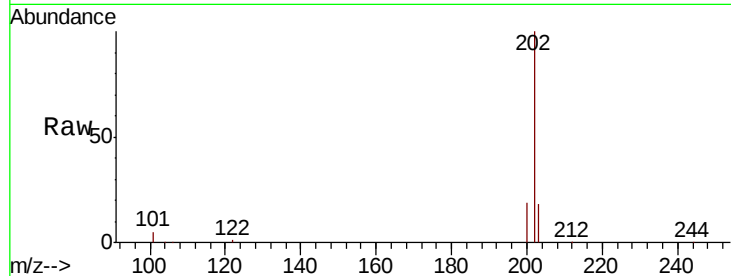
#26
 Fluoranthene
 Concen: 6.352 ng
 RT: 19.12 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	137255		
101	5.1		4.6	7.0
203	17.3		13.7	20.5

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:00 AM

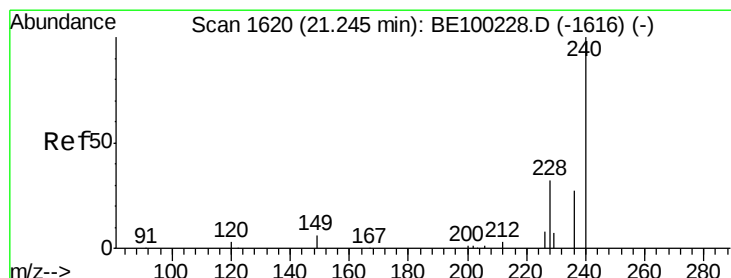
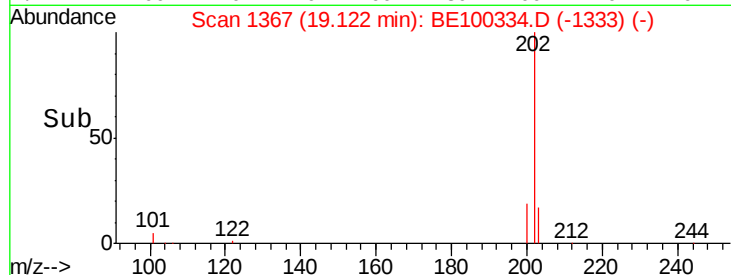
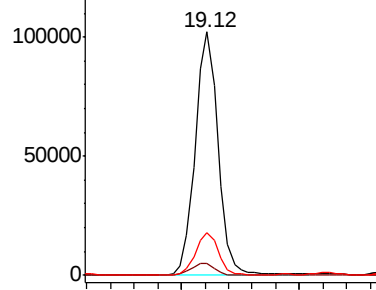


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.24 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

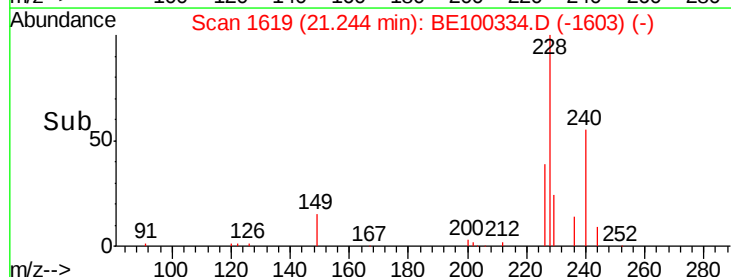
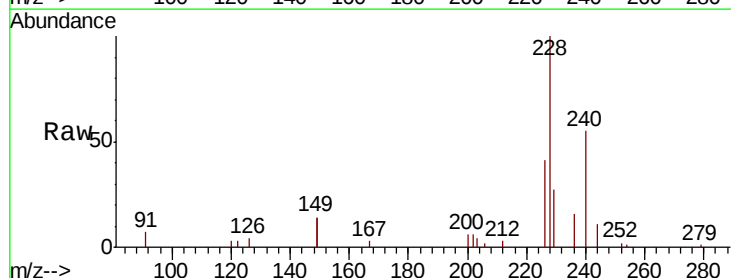
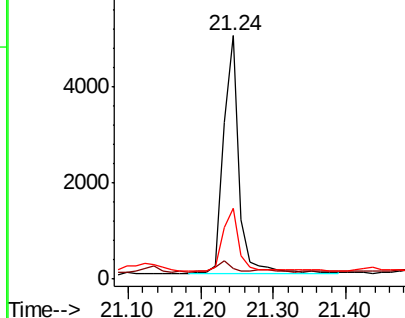
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	7466		
120	4.6		3.3	4.9
236	29.3		22.6	34.0

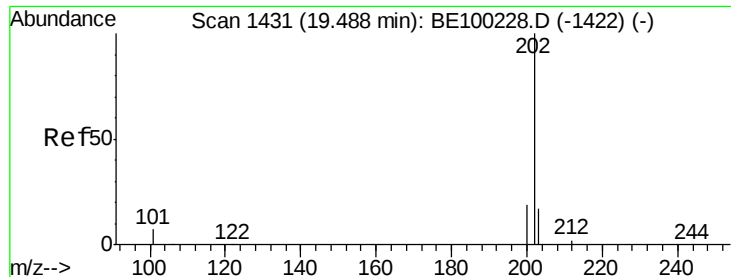
Abundance

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





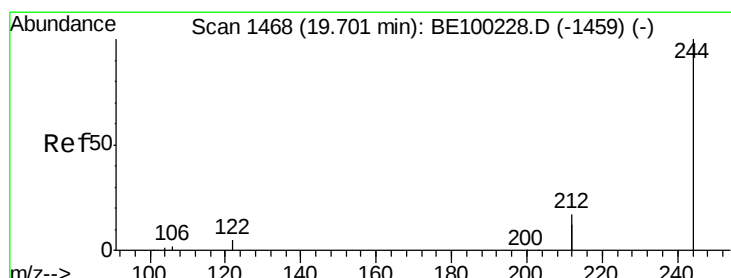
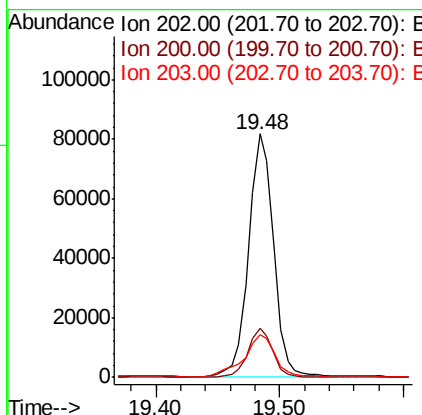
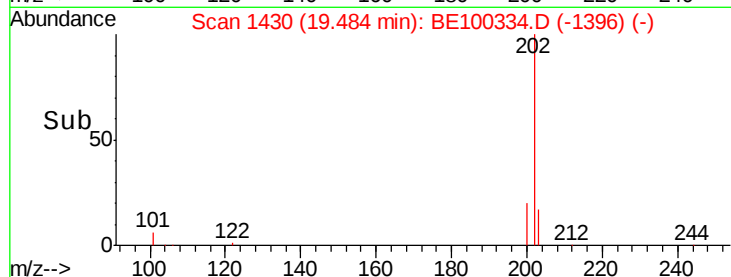
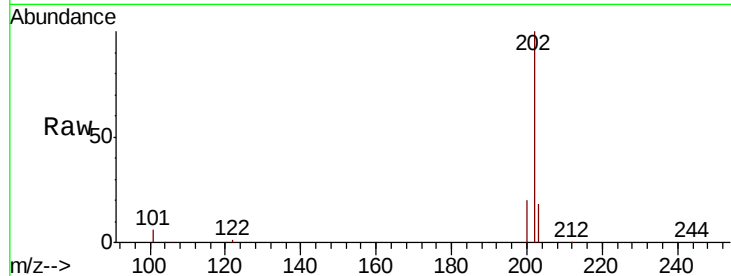
#28
Pvrene
Concen: 5.834 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.0	15.6	23.4
203	20.9	14.0	21.0

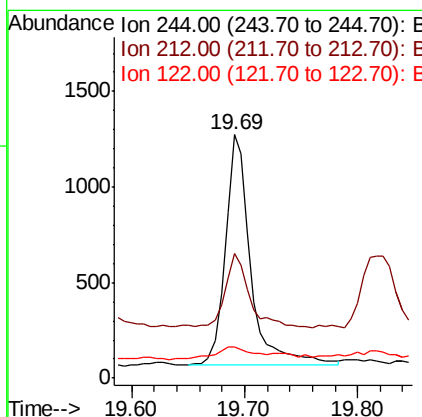
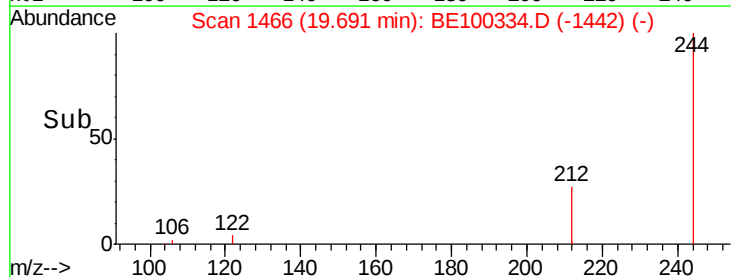
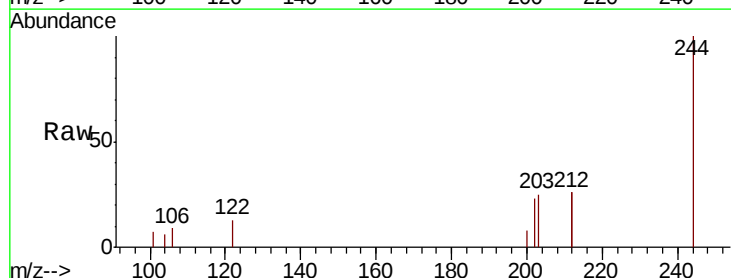
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM



#29
Terphenyl-d14
Concen: 0.121 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
244	100		
212	51.3	27.3	40.9#
122	13.0	4.7	7.1#





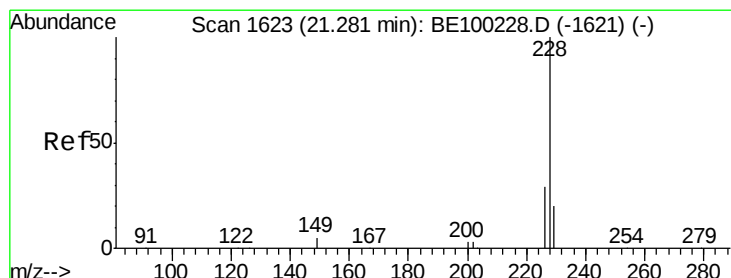
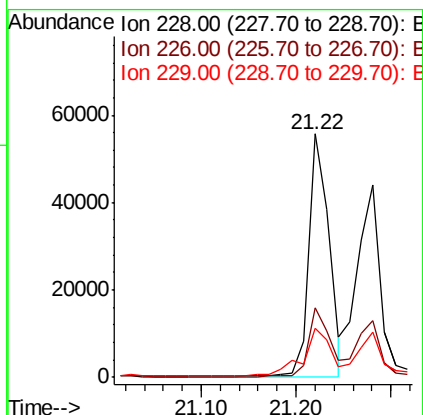
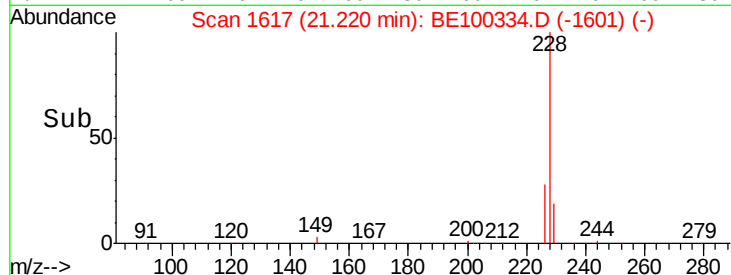
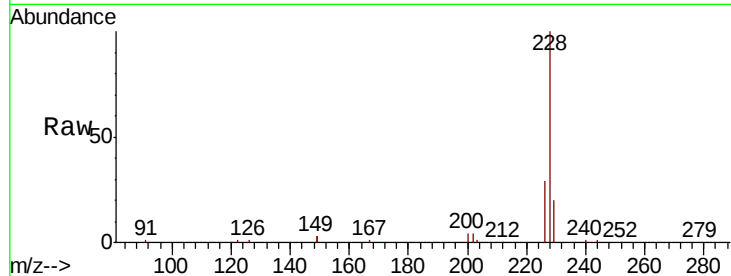
#30
Benzo(a)anthracene
Concen: 3.349 ng
RT: 21.22 min Scan# 1617
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	23.2	34.8
229	20.4	15.7	23.5

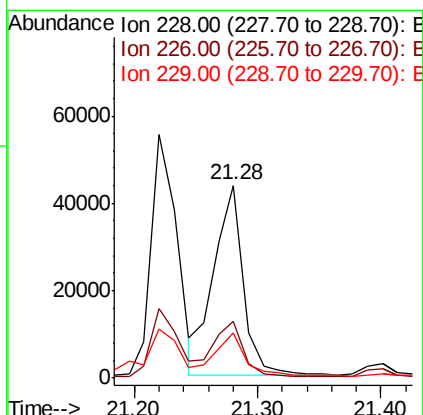
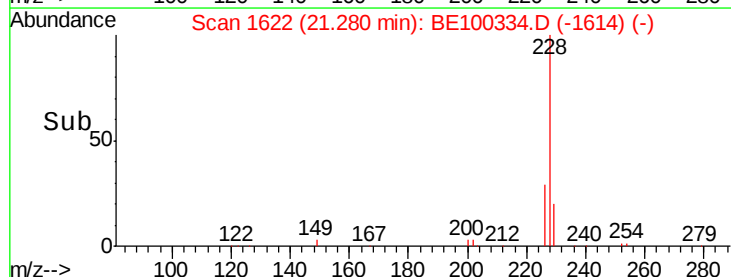
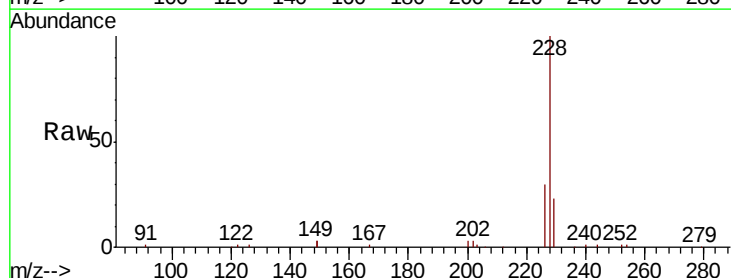
Manual Integrations
APPROVED

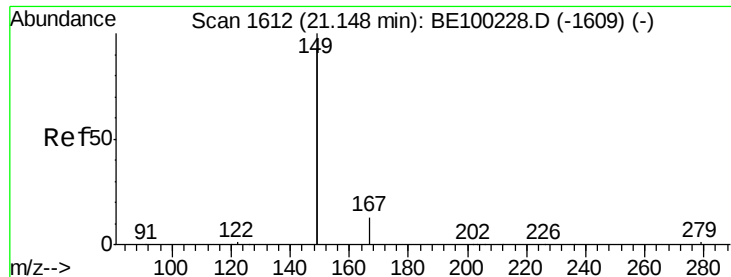
mohammad
7/5/2019 8:54:00 AM



#31
Chrysene
Concen: 2.920 ng
RT: 21.28 min Scan# 1622
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.9	35.9
229	23.4	16.5	24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.189 ng

RT: 21.15 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE100334.D

Acq: 3 Jul 2019 18:26

Instrument :

BNA_E

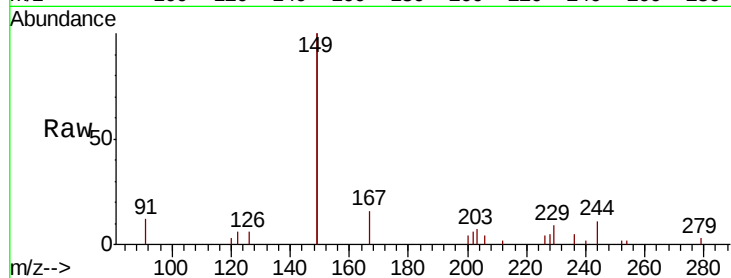
ClientSampleId :

PST-008-B253-061819DL

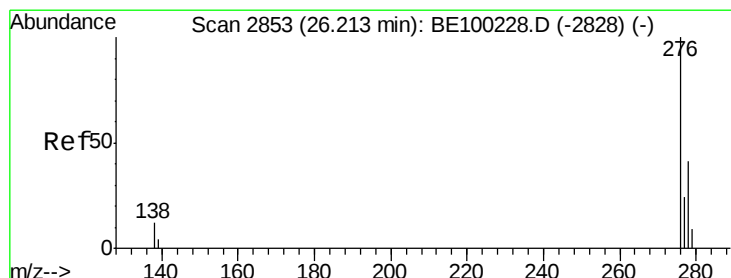
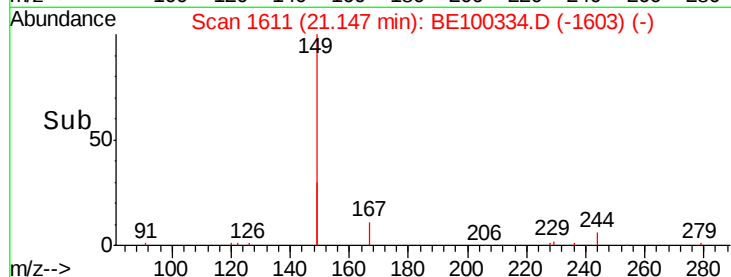
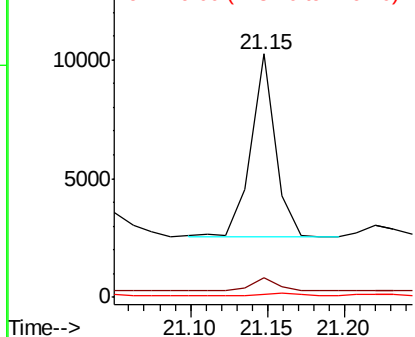
Tot Ion:	149	Resp:	8555
Ion Ratio	Lower	Upper	
149	100		
167	8.3	5.8	8.8
279	1.9	1.1	1.7#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.129 ng

RT: 26.22 min Scan# 2854

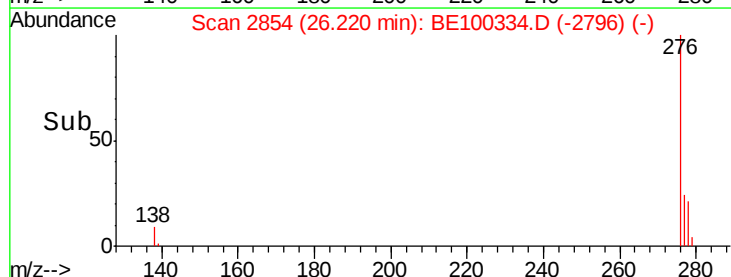
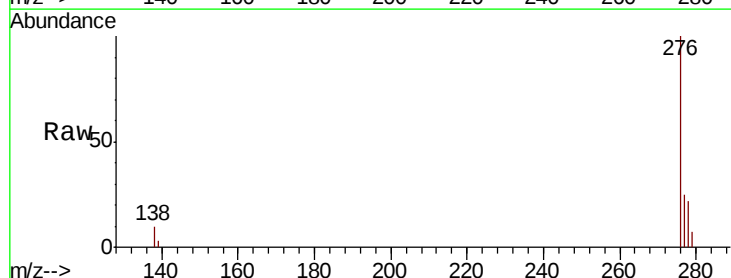
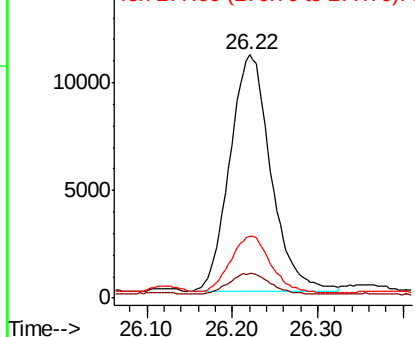
Delta R.T. 0.01 min

Lab File: BE100334.D

Acq: 3 Jul 2019 18:26

Tgt Ion:	276	Resp:	36812
Ion Ratio	Lower	Upper	
276	100		
138	9.1	9.4	14.0#
277	23.6	19.2	28.8

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





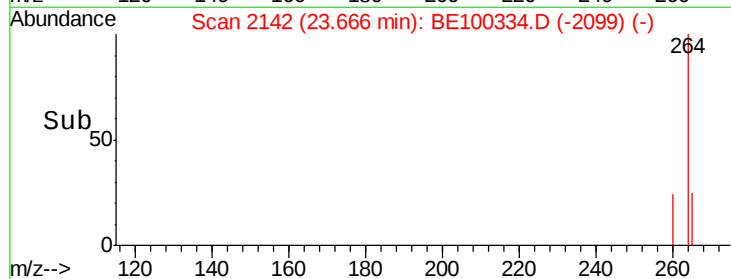
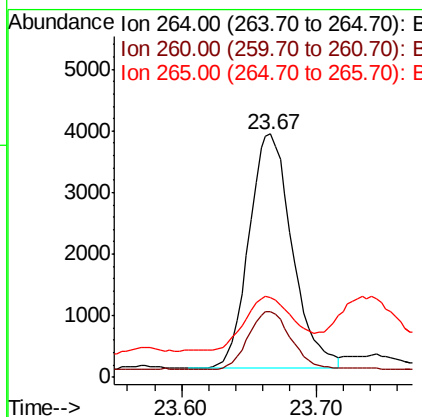
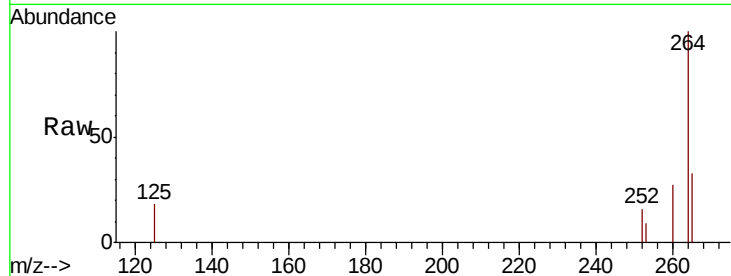
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.67 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.8	31.2
265	32.6	21.8	32.6

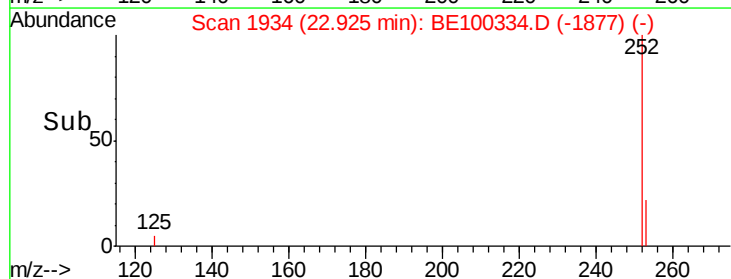
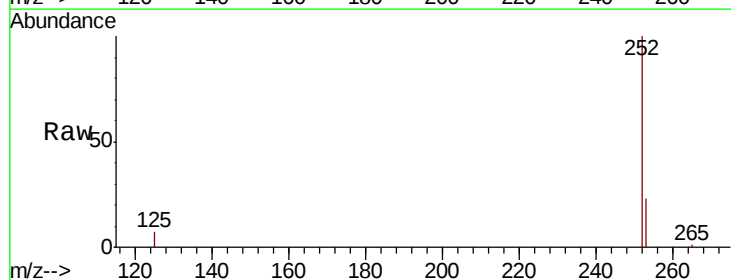
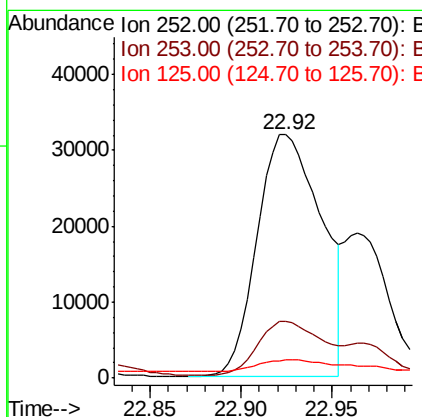
Manual Integrations
 APPROVED

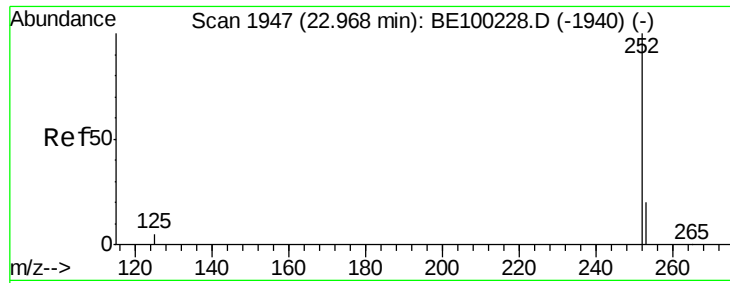
mohammad
 7/5/2019 8:54:00 AM



#35
 Benzo(b)fluoranthene
 Concen: 3.403 ng
 RT: 22.92 min Scan# 1934
 Delta R.T. 0.00 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.2	28.8
125	7.4	7.4	11.0





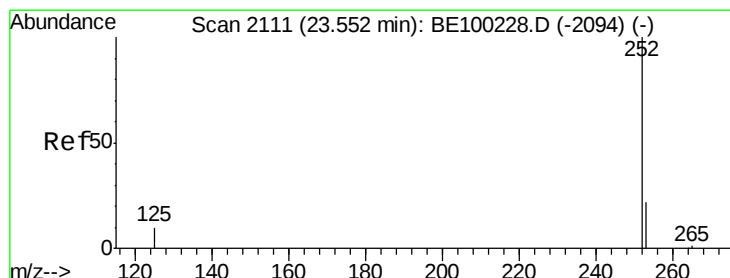
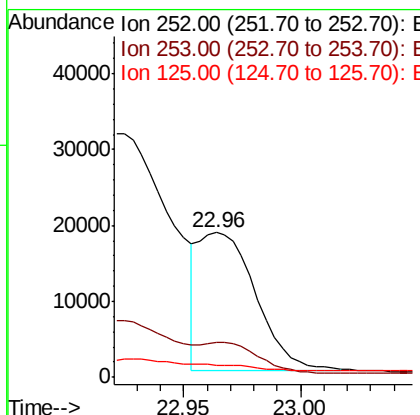
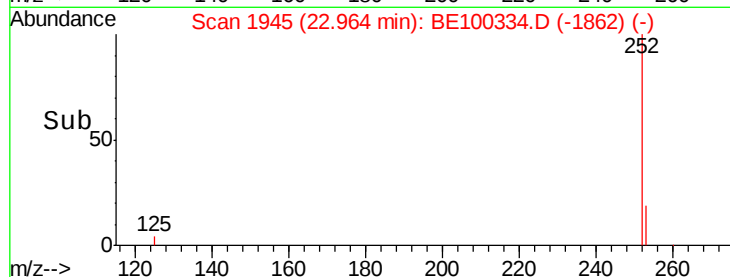
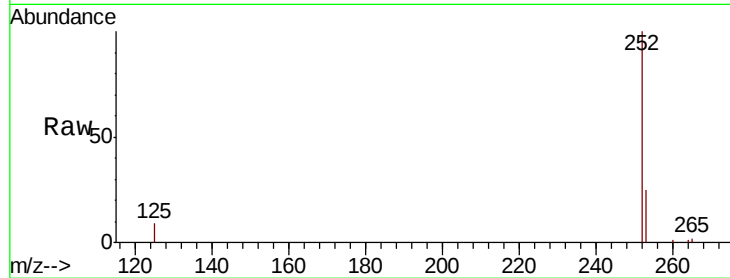
#36
Benzo(k)fluoranthene
Concen: 1.188 ng m
RT: 22.96 min Scan# 1945
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Instrument :
BNA_E
ClientSampleId :
PST-008-B253-061819DL

Tot Ion:252 Resp: 30540
Ion Ratio Lower Upper
252 100
253 24.5 17.9 26.9
125 8.6 5.0 7.4#

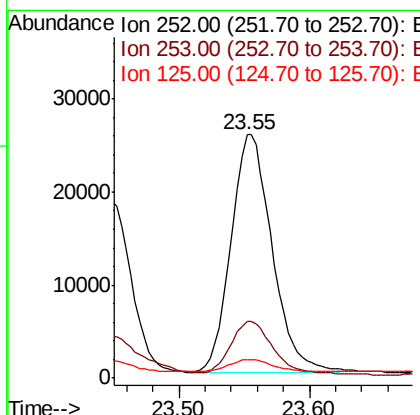
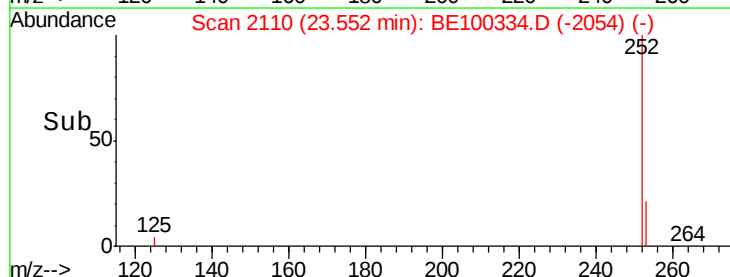
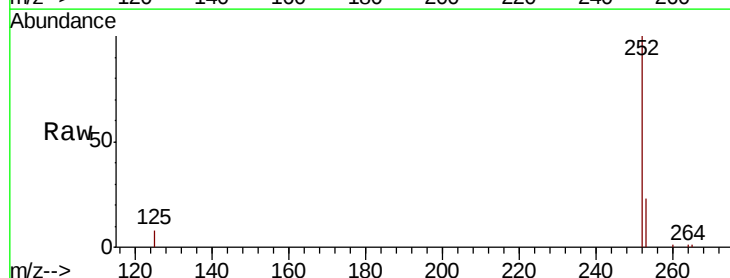
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:00 AM



#37
Benzo(a)pyrene
Concen: 2.436 ng m
RT: 23.55 min Scan# 2110
Delta R.T. -0.00 min
Lab File: BE100334.D
Acq: 3 Jul 2019 18:26

Tgt Ion:252 Resp: 56202
Ion Ratio Lower Upper
252 100
253 23.4 19.6 29.4
125 7.5 9.0 13.6#





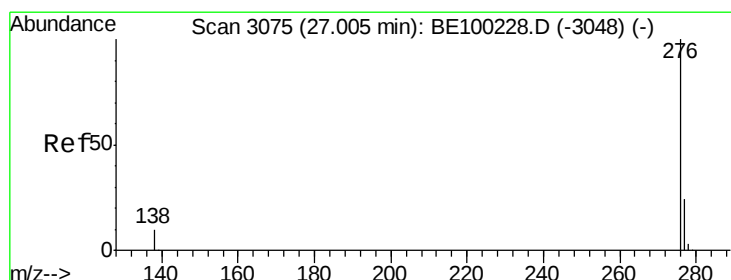
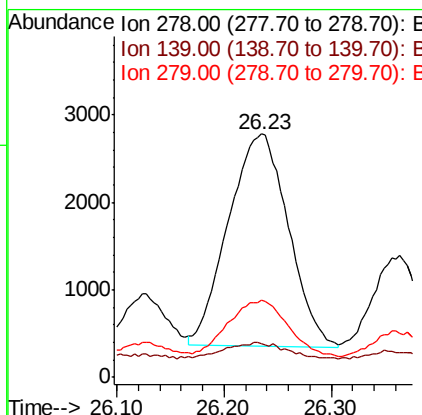
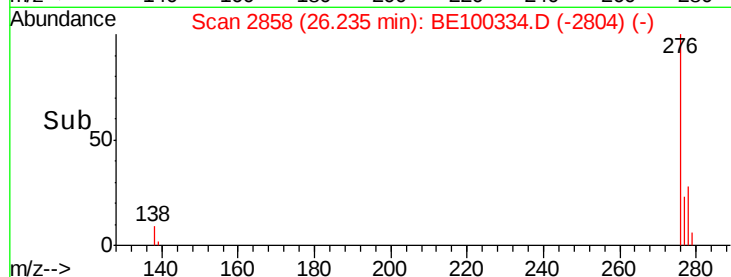
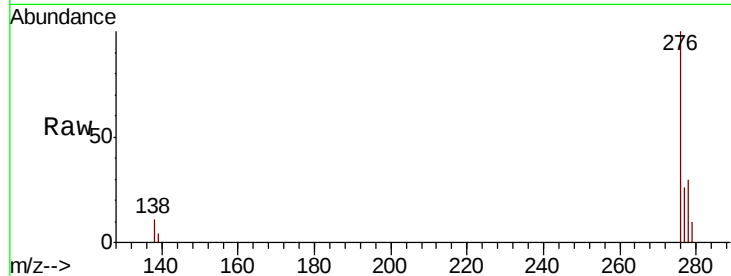
#38
 Dibenzo(a,h)anthracene
 Concen: 0.392 ng
 RT: 26.23 min Scan# 2858
 Delta R.T. -0.01 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Instrument :
 BNA_E
 ClientSampleId :
 PST-008-B253-061819DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	13.7	8.2	12.2#
279	31.5	20.3	30.5#

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:00 AM



#39
 Benzo(g,h,i)perylene
 Concen: 1.422 ng
 RT: 27.01 min Scan# 3076
 Delta R.T. 0.01 min
 Lab File: BE100334.D
 Acq: 3 Jul 2019 18:26

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.2	30.2
138	10.5	9.0	13.6

