

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100324.D
 Acq On : 3 Jul 2019 12:20
 Operator : JU/SJ
 Sample : K3505-09DL 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-013-SW107-062019-1DL

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:53:39 AM

Quant Time: Jul 04 00:49:44 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	505	0.40	ng	0.00
7) Naphthalene-d8	10.45	136	1822	0.40	ng	0.00
13) Acenaphthene-d10	14.31	164	1788	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5712	0.40	ng	0.00
27) Chrysene-d12	21.24	240	7887	0.40	ng	0.00
34) Perylene-d12	23.67	264	9676	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	55	0.04	ng	0.00
5) Phenol-d6	6.88	99	91	0.05	ng	0.05
8) Nitrobenzene-d5	8.89	82	157m	0.09	ng	0.06
11) 2-Methylnaphthalene-d10	12.08	152	422	0.12	ng	0.03
14) 2,4,6-Tribromophenol	15.85	330	173	0.14	ng	0.03
15) 2-Fluorobiphenyl	12.94	172	638	0.09	ng	0.00
25) Fluoranthene-d10	19.09	212	7627	0.09	ng	0.00
29) Terphenyl-d14	19.69	244	3220	0.20	ng	0.00
Target Compounds						
9) Naphthalene	10.50	128	935	0.047	ng	Qvalue # 71
12) 2-Methylnaphthalene	12.15	142	140	0.040	ng	# 80
16) Acenaphthylene	14.04	152	1679	0.196	ng	98
17) Acenaphthene	14.37	154	272	0.056	ng	85
18) Fluorene	15.37	166	750	0.104	ng	# 91
22) Pentachlorophenol	16.79	266	1041m	0.914	ng	
23) Phenanthrene	17.09	178	24238	1.751	ng	100
24) Anthracene	17.19	178	5239	0.420	ng	# 95
26) Fluoranthene	19.12	202	93436	4.237	ng	99
28) Pvrene	19.49	202	87025	4.168	ng	96
30) Benzo(a)anthracene	21.22	228	60069	2.316	ng	98
31) Chrysene	21.28	228	61201	2.350	ng	98
32) Bis(2-ethylhexyl)phthalate	21.15	149	257996	6.981	ng	100
33) Indeno(1,2,3-cd)pyrene	26.22	276	34778	1.010	ng	# 96
35) Benzo(b)fluoranthene	22.93	252	72395	2.760	ng	# 96
36) Benzo(k)fluoranthene	22.97	252	23983m	0.819	ng	
37) Benzo(a)pvrene	23.56	252	48498m	1.845	ng	
38) Dibenzo(a,h)anthracene	26.23	278	8410	0.306	ng	# 89
39) Benzo(g,h,i)perylene	27.01	276	36572	1.296	ng	98

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



#1

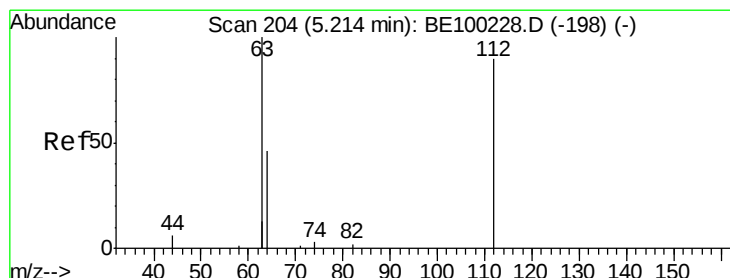
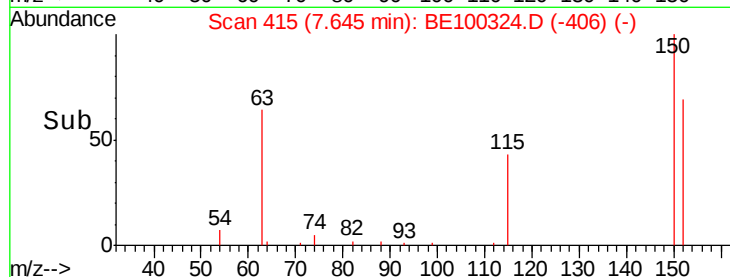
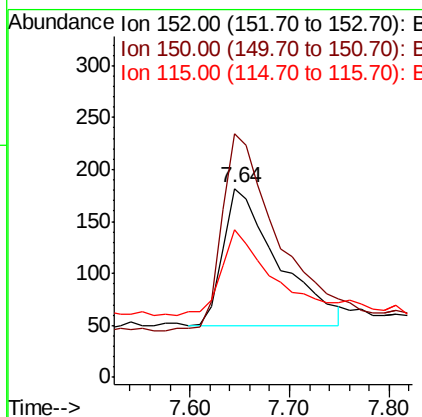
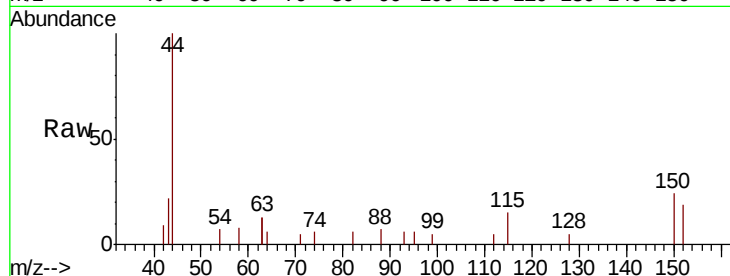
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.64 min Scan# 415
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	128.6	114.5	171.7
115	78.0	57.1	85.7

Manual Integrations
APPROVED

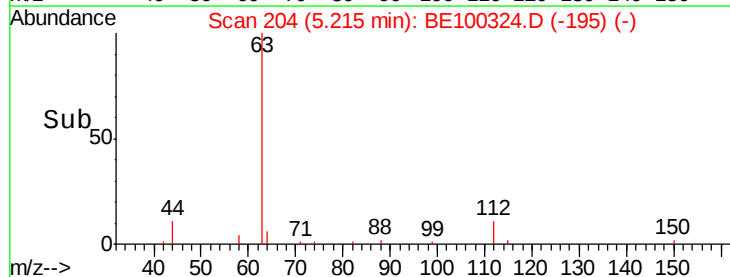
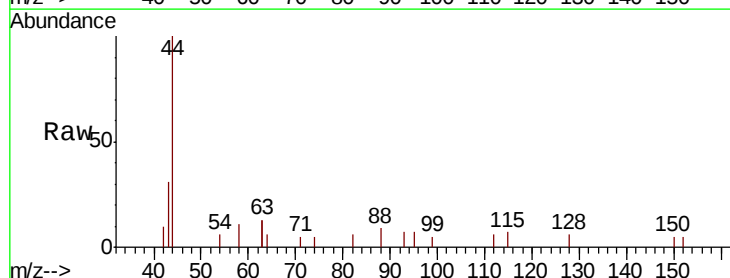
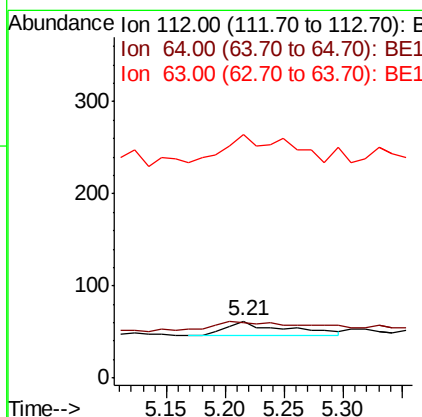
mohammad
7/5/2019 8:53:39 AM

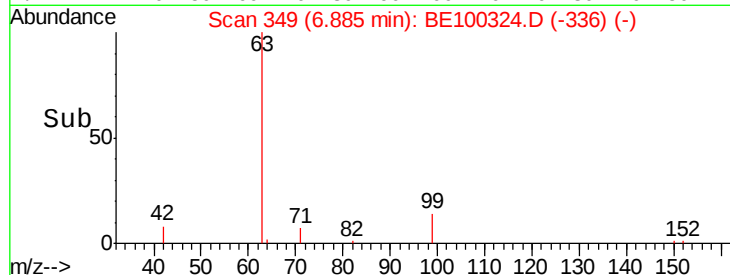
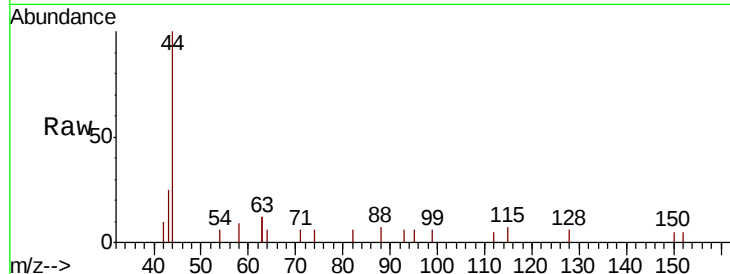


#4

2-Fluorophenol
Concen: 0.043 ng
RT: 5.21 min Scan# 204
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	78.2	39.4	59.0#
63	192.7	104.5	156.7#





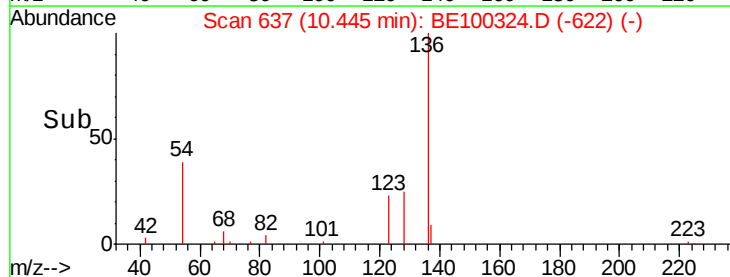
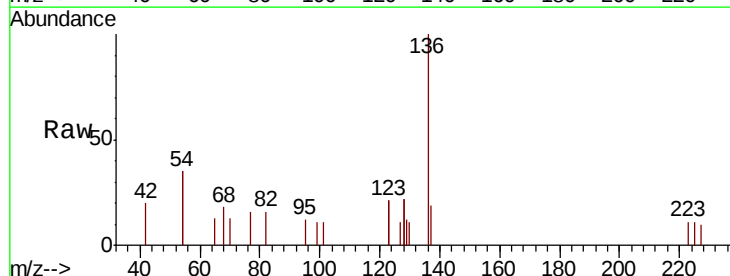
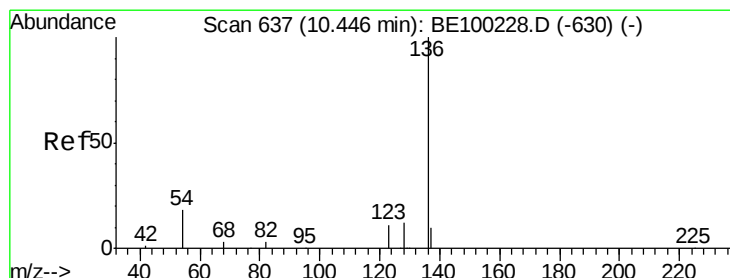
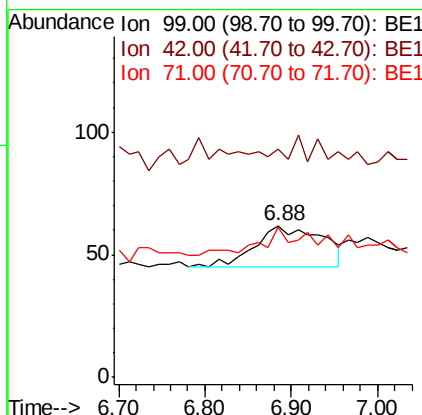
#5
Phenol-d6
Concen: 0.054 ng
RT: 6.88 min Scan# 349
Delta R.T. 0.05 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tot Ion:	99	Resp:	91
Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.2	16.8#
71	30.8	37.2	55.8#

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

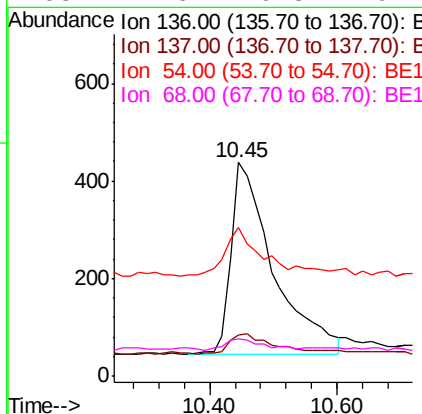
Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.45 min Scan# 637
Delta R.T. -0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion:	136	Resp:	1822
Ion	Ratio	Lower	Upper
136	100		
137	19.2	11.8	17.8#
54	69.9	27.7	41.5#
68	17.6	6.8	10.2#





#8

Nitrobenzene-d5

Concen: 0.087 ng m

RT: 8.89 min Scan# 517

Delta R.T. 0.06 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

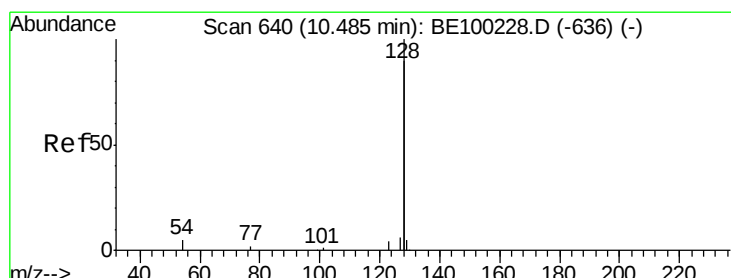
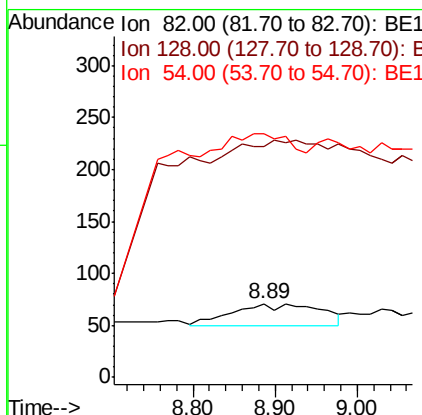
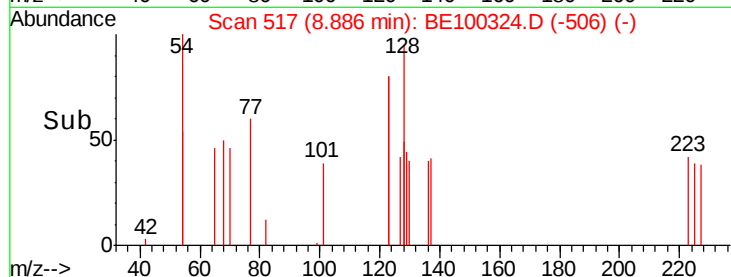
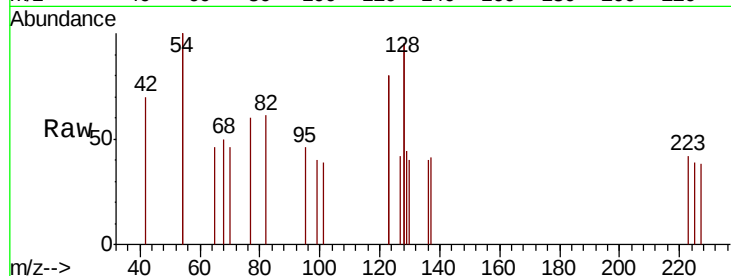
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion:	82	Resp:	157
Ion	Ratio	Lower	Upper
82	100		
128	156.3	140.9	211.3
54	164.8	146.2	219.2

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#9

Naphthalene

Concen: 0.047 ng

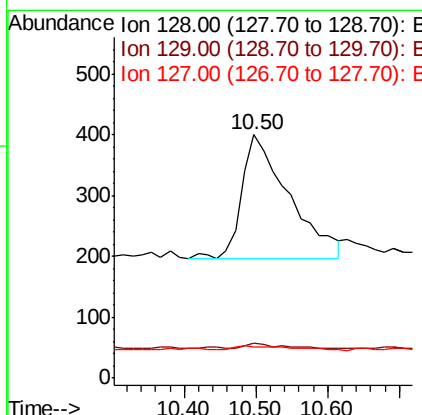
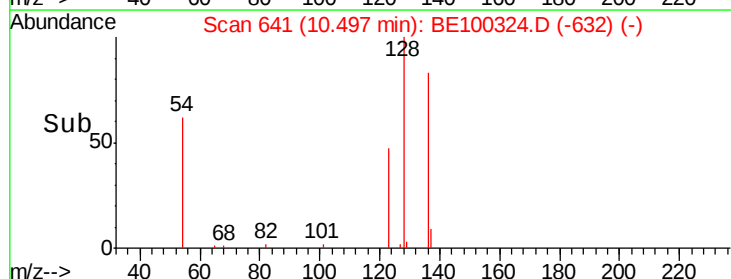
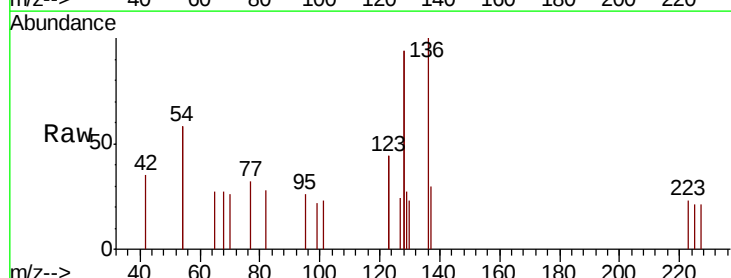
RT: 10.50 min Scan# 641

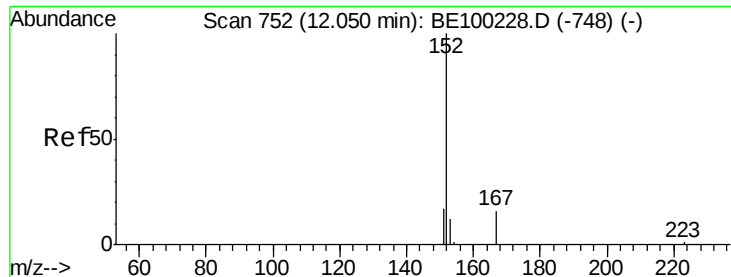
Delta R.T. 0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Tgt Ion:	128	Resp:	935
Ion	Ratio	Lower	Upper
128	100		
129	14.5	3.0	4.6#
127	13.0	3.5	5.3#





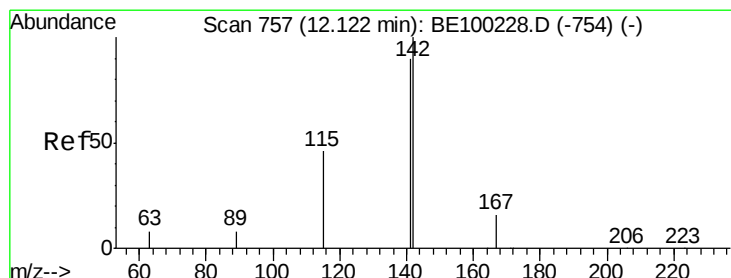
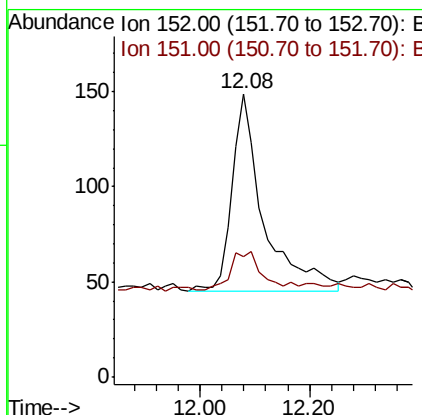
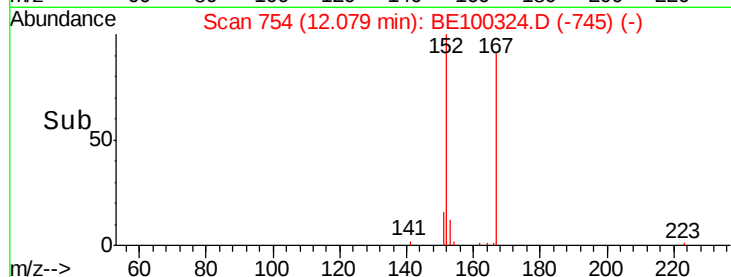
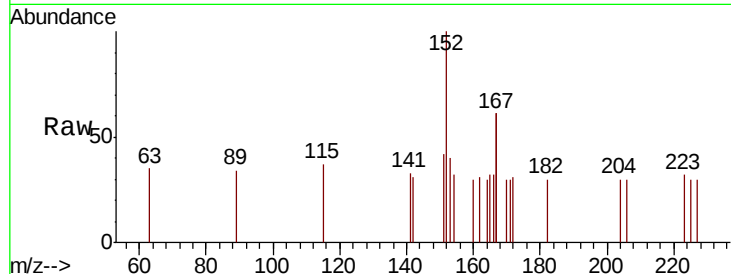
#11
2-Methylnaphthalene-d10
Concen: 0.123 ng
RT: 12.08 min Scan# 754
Delta R.T. 0.03 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion:152 Resp: 422
Ion Ratio Lower Upper
152 100
151 17.5 15.1 22.7

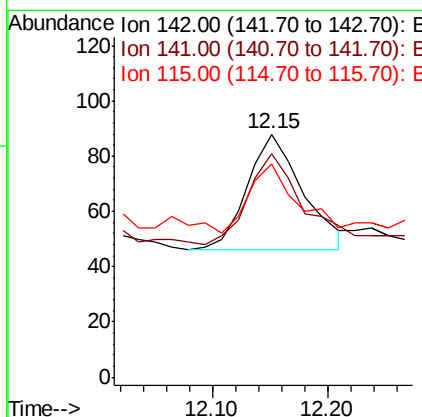
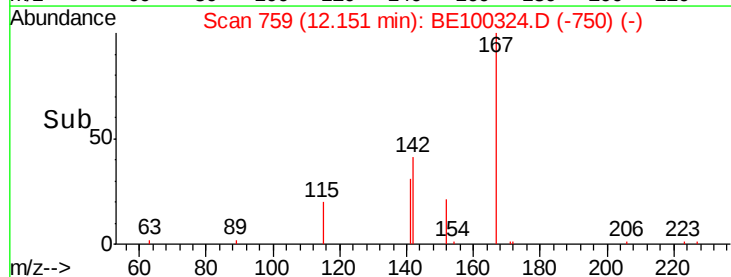
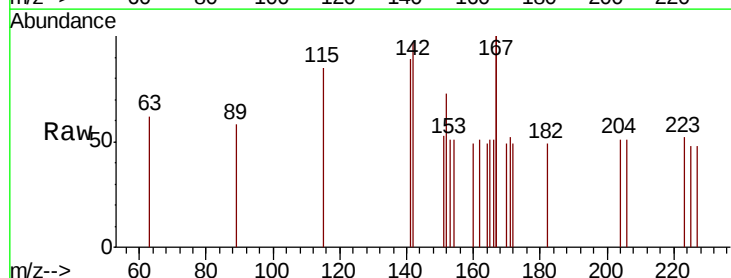
Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#12
2-Methylnaphthalene
Concen: 0.040 ng
RT: 12.15 min Scan# 759
Delta R.T. 0.03 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion:142 Resp: 140
Ion Ratio Lower Upper
142 100
141 92.0 72.4 108.6
115 87.5 40.4 60.6#





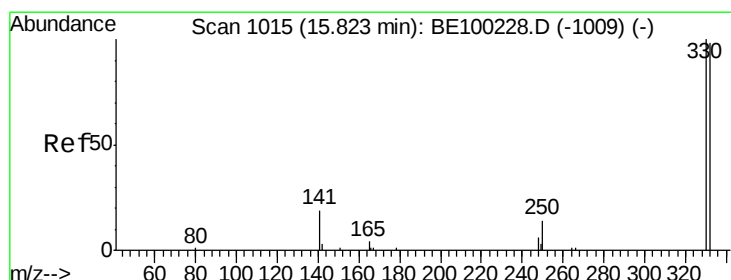
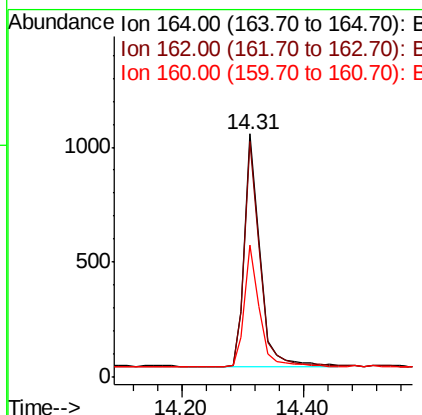
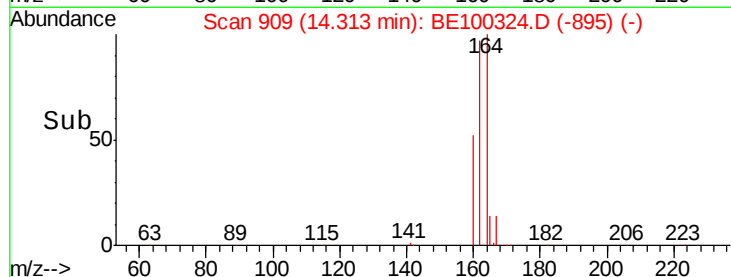
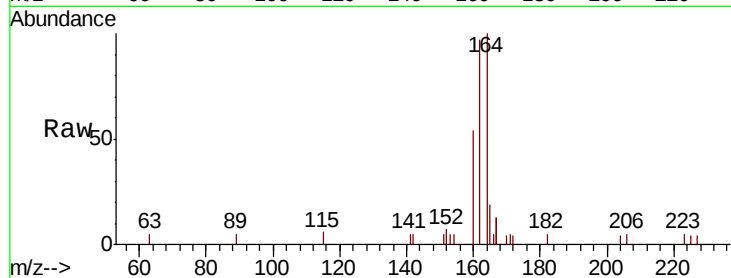
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.8	83.4	125.0
160	54.2	45.0	67.6

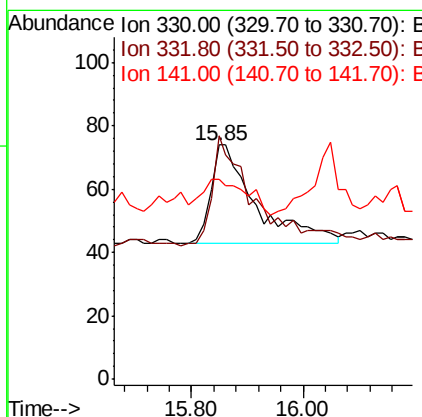
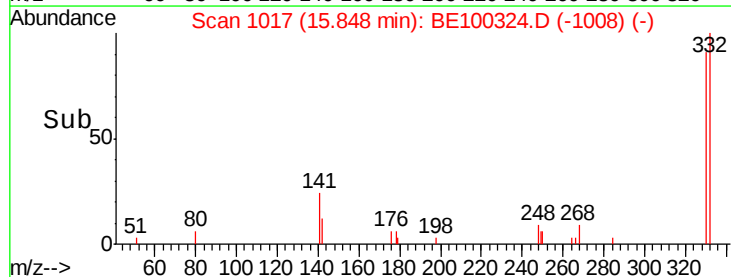
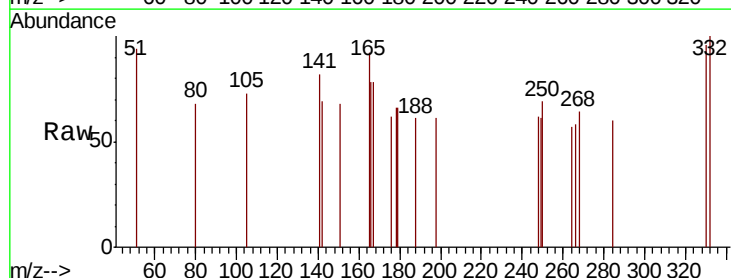
Manual Integrations
APPROVED

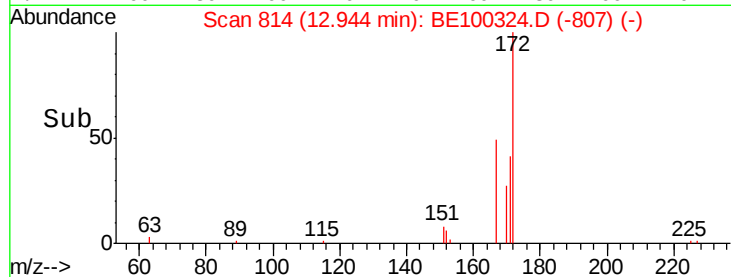
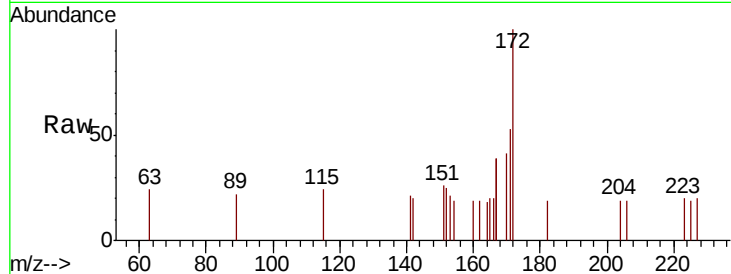
mohammad
7/5/2019 8:53:39 AM



#14
2,4,6-Tribromophenol
Concen: 0.138 ng
RT: 15.85 min Scan# 1017
Delta R.T. 0.03 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.0	115.4
141	35.3	22.0	33.0#





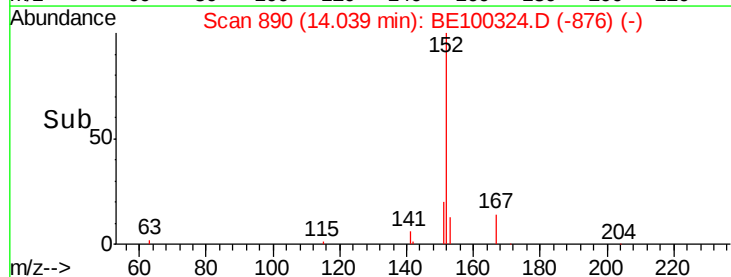
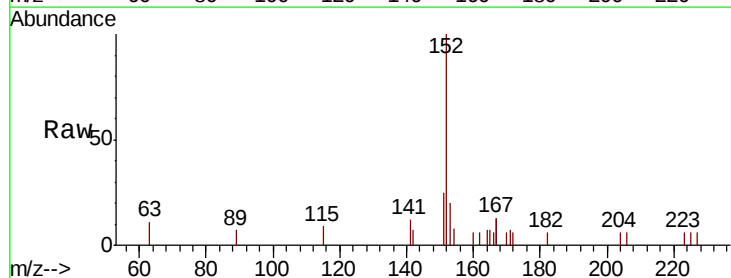
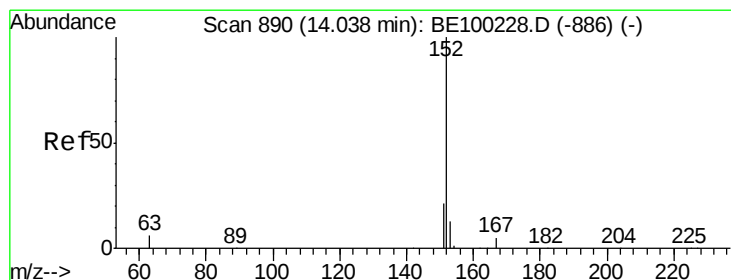
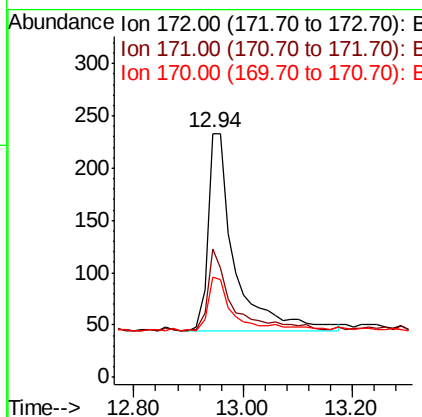
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.94 min Scan# 814
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tot Ion	Ratio	Lower	Upper
172	100		
171	52.8	31.9	47.9#
170	41.2	22.2	33.2#

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

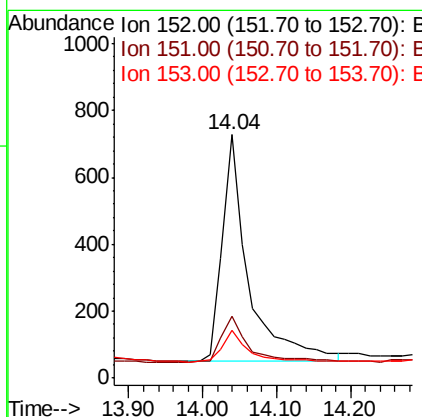
Manual Integrations
APPROVED

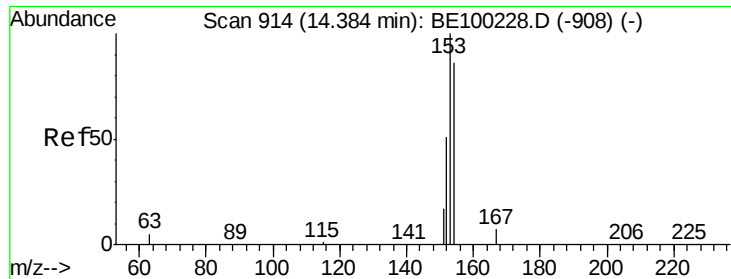
mohammad
7/5/2019 8:53:39 AM



#16
Acenaphthylene
Concen: 0.196 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	25.0
153	14.6	10.5	15.7





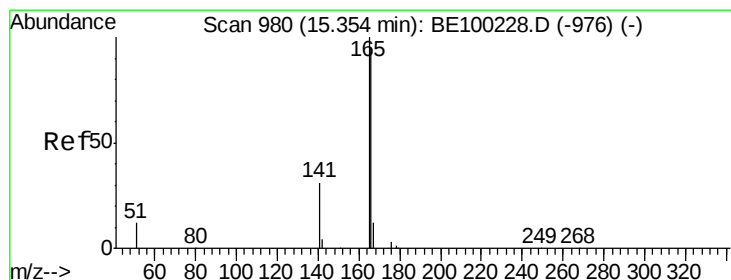
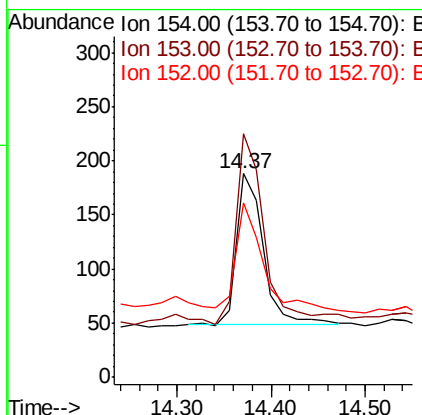
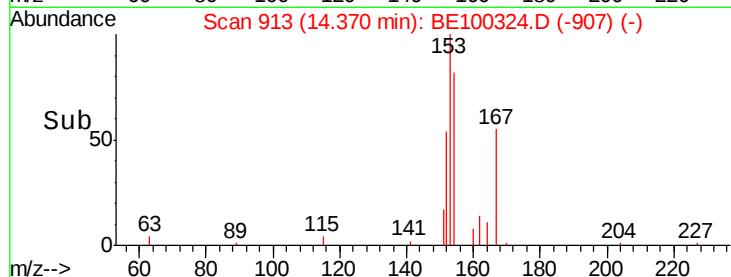
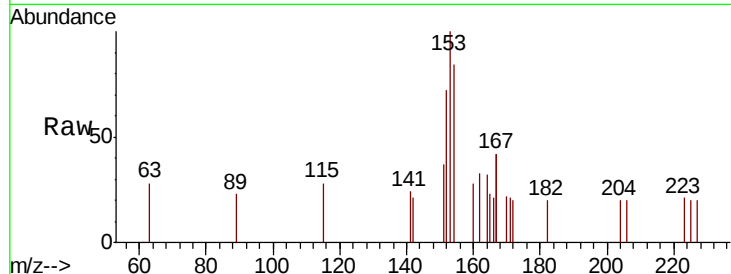
#17
Acenaphthene
Concen: 0.056 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	134.6	93.4	140.2
152	71.0	49.4	74.2

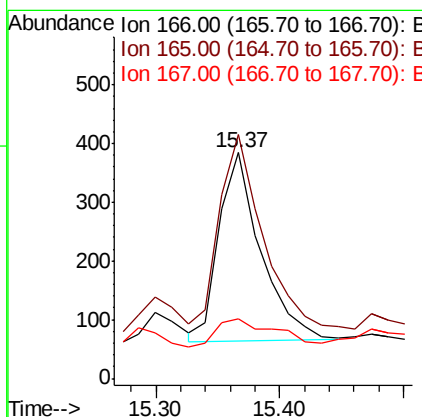
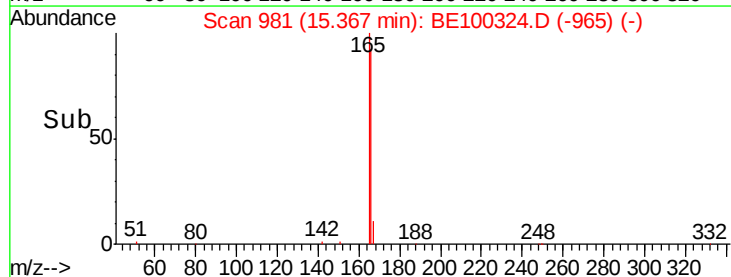
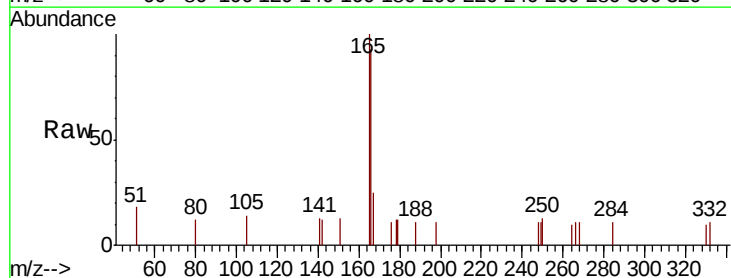
Manual Integrations
APPROVED

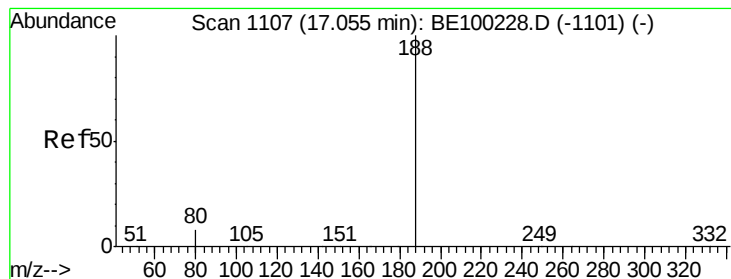
mohammad
7/5/2019 8:53:39 AM



#18
Fluorene
Concen: 0.104 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.01 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.1	81.1	121.7
167	20.8	10.7	16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

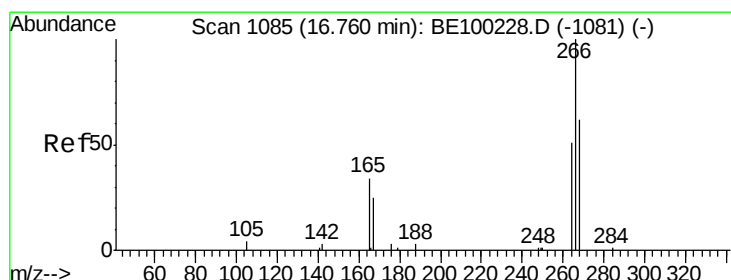
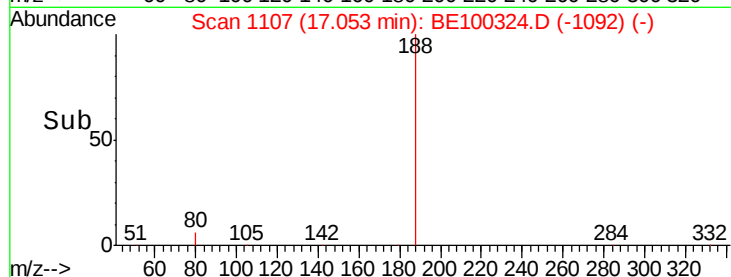
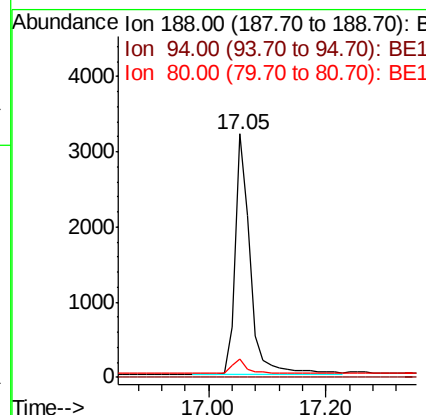
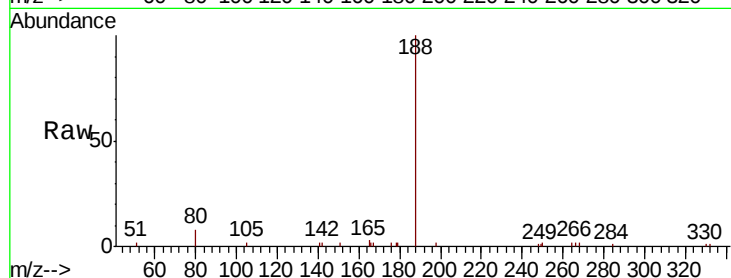
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion:	188	Resp:	5712
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.7	7.6	11.4

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#22

Pentachlorophenol

Concen: 0.914 ng m

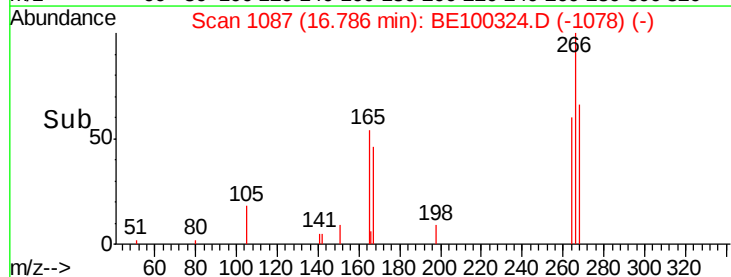
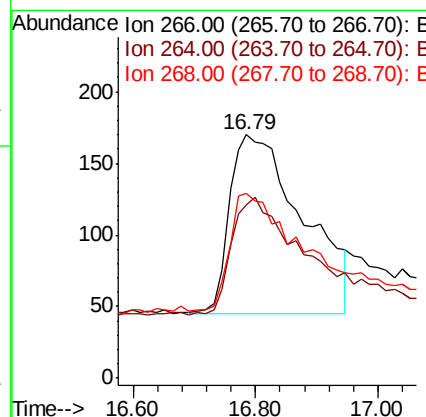
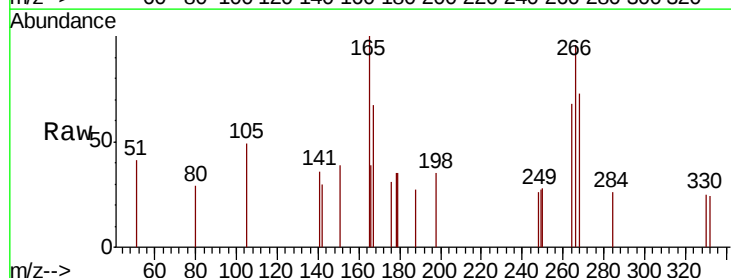
RT: 16.79 min Scan# 1087

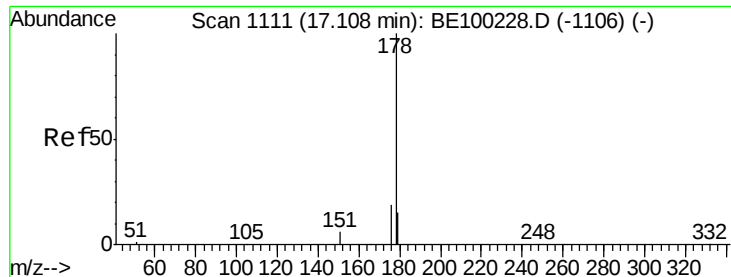
Delta R.T. 0.03 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Tgt Ion:	266	Resp:	1041
Ion Ratio	Lower	Upper	
266	100		
264	71.2	56.2	84.2
268	75.9	61.8	92.6





#23

Phenanthrene

Concen: 1.751 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

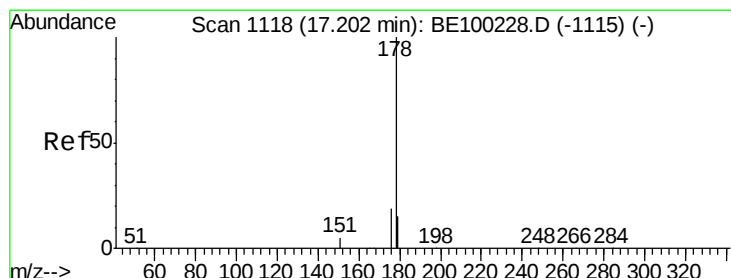
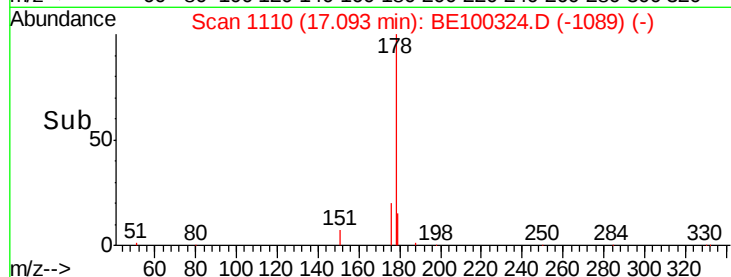
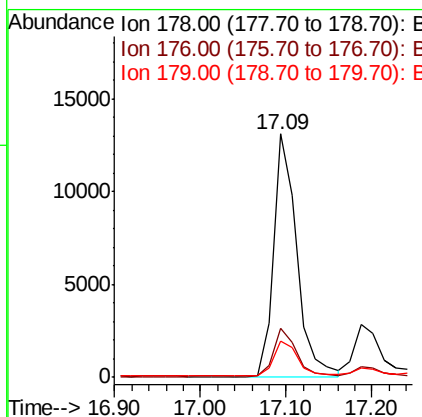
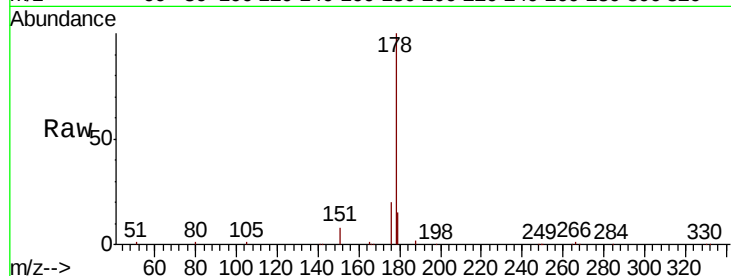
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion:178	Resp:	24238
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.9 23.9
179	15.2	12.2 18.2

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#24

Anthracene

Concen: 0.420 ng

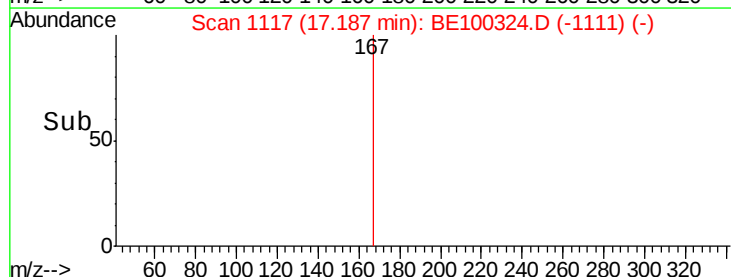
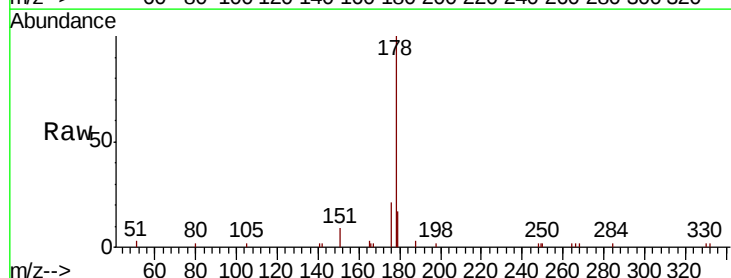
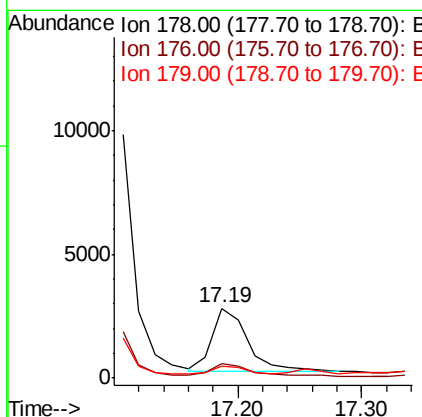
RT: 17.19 min Scan# 1117

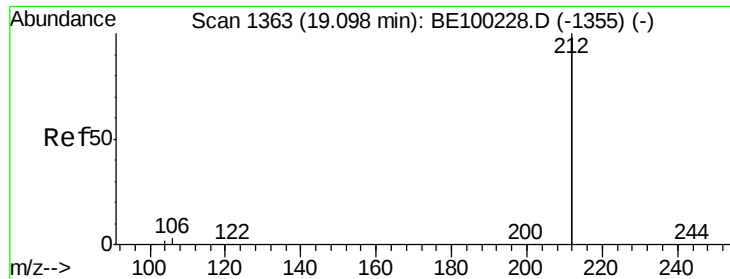
Delta R.T. -0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Tgt Ion:178	Resp:	5239
Ion Ratio	Lower	Upper
178	100	
176	19.3	15.3 22.9
179	10.9	12.2 18.2#





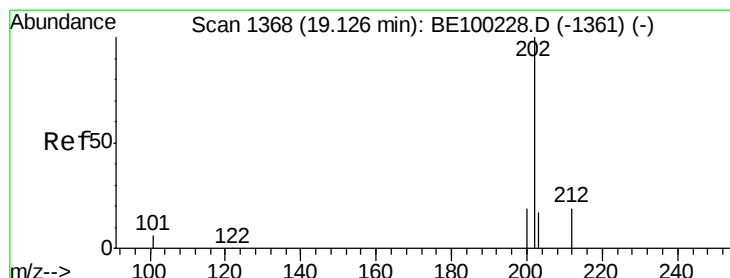
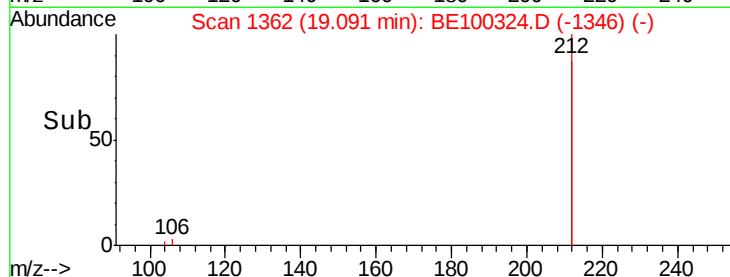
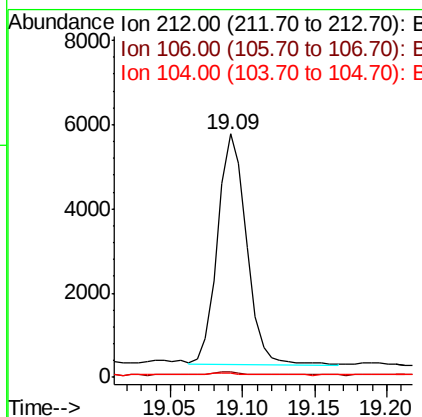
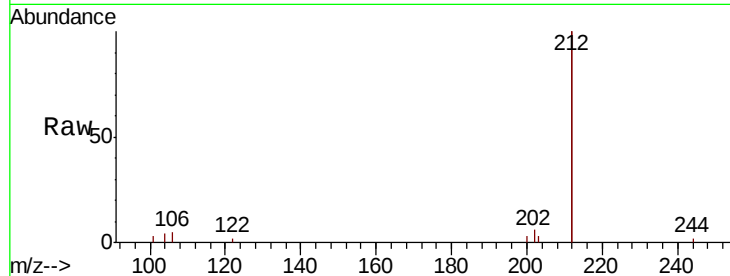
#25
 Fluoranthene-d10
 Concen: 0.092 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: BE100324.D
 Acq: 3 Jul 2019 12:20

Instrument :
 BNA_E
 ClientSampleId :
 PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
212	100		
106	1.8	1.3	1.9
104	1.0	0.8	1.2

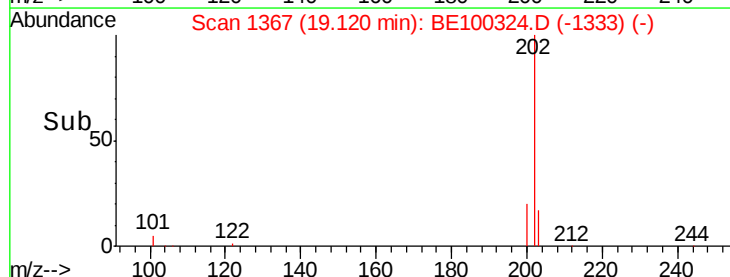
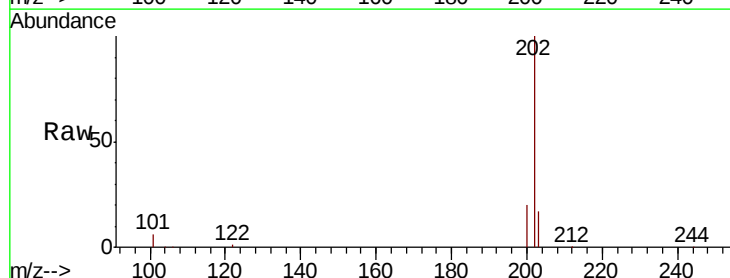
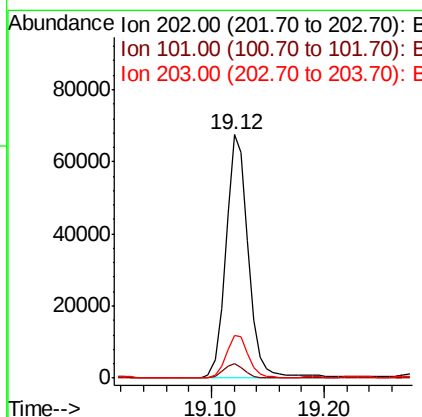
Manual Integrations
 APPROVED

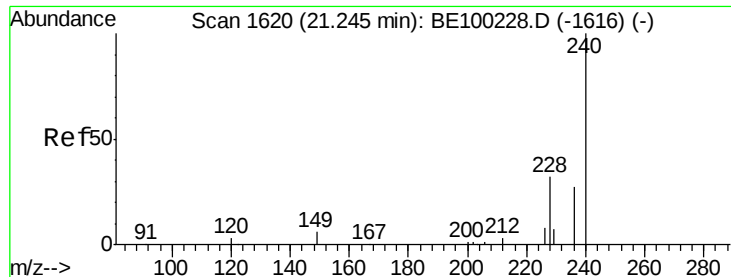
mohammad
 7/5/2019 8:53:39 AM



#26
 Fluoranthene
 Concen: 4.237 ng
 RT: 19.12 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: BE100324.D
 Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.5	4.6	7.0
203	17.3	13.7	20.5





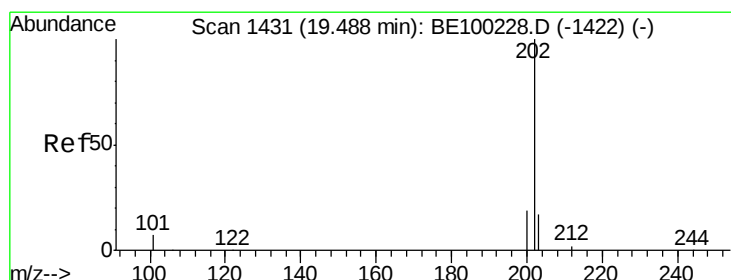
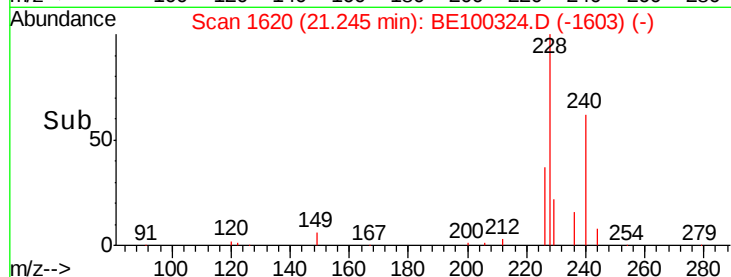
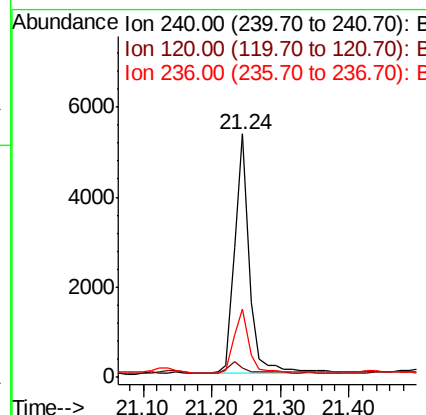
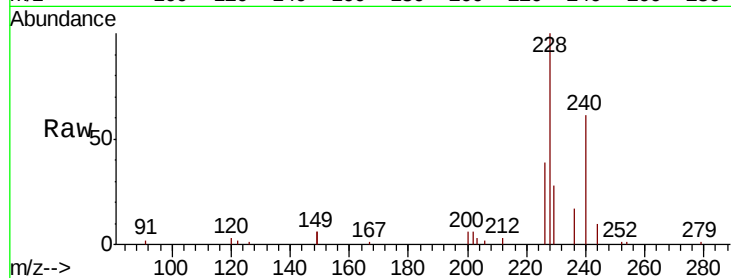
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.24 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.1	3.3	4.9
236	28.0	22.6	34.0

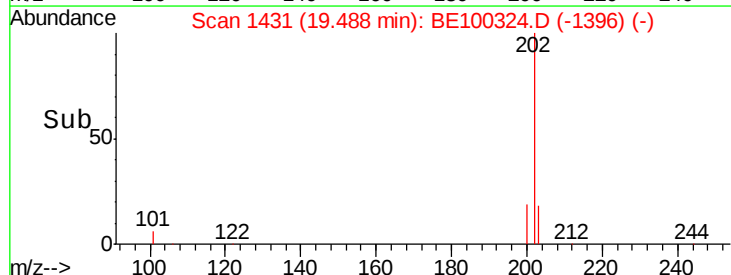
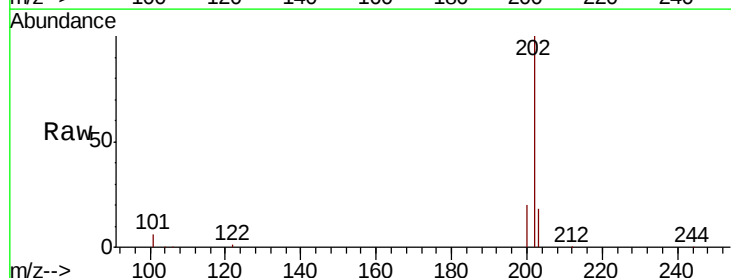
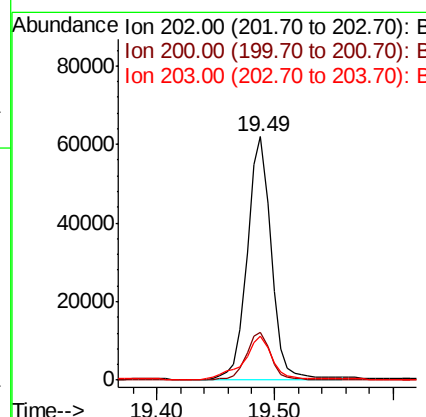
Manual Integrations
APPROVED

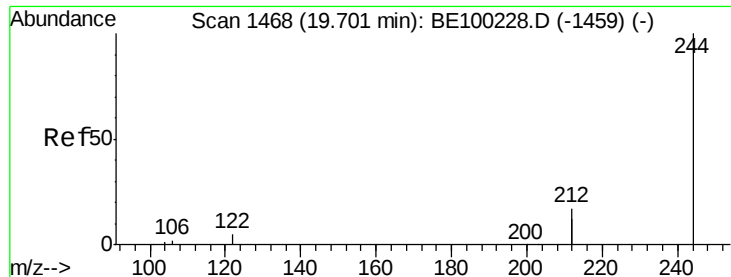
mohammad
7/5/2019 8:53:39 AM



#28
Pyrene
Concen: 4.168 ng
RT: 19.49 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.6	23.4
203	20.8	14.0	21.0





#29

Terphenyl-d14

Concen: 0.197 ng

RT: 19.69 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

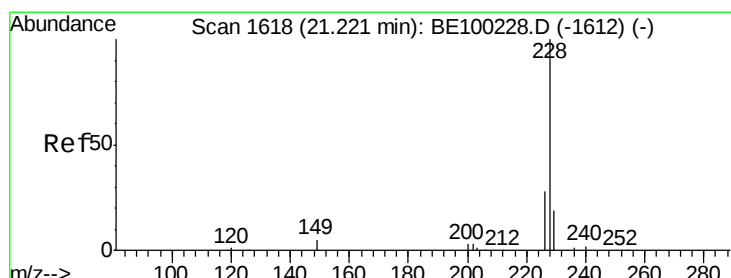
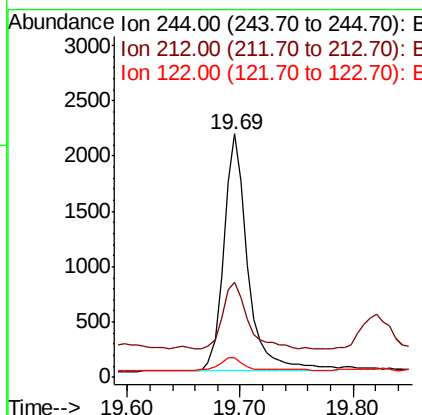
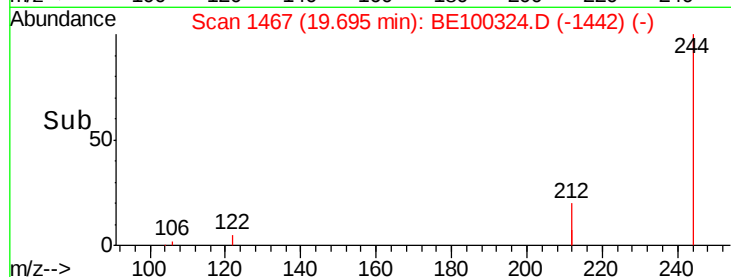
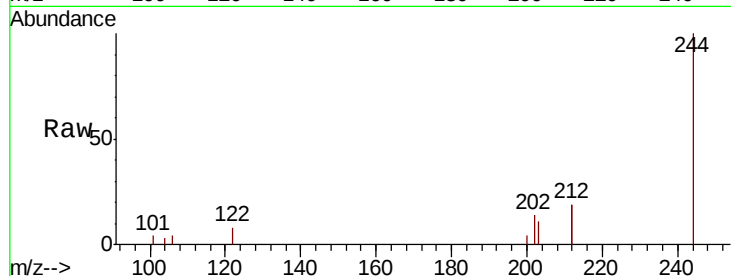
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	39.0	27.3	40.9
122	7.9	4.7	7.1

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#30

Benzo(a)anthracene

Concen: 2.316 ng

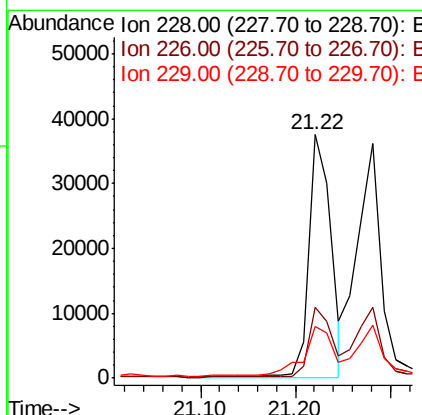
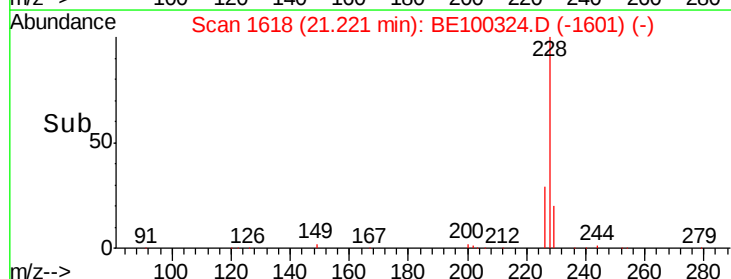
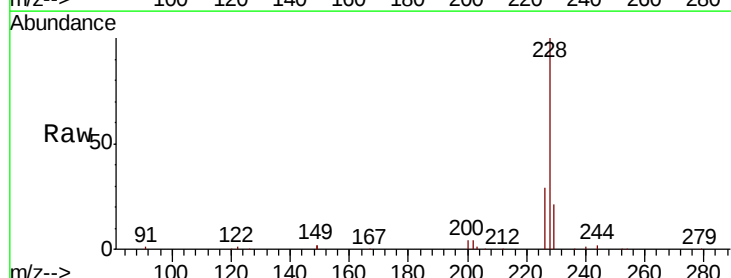
RT: 21.22 min Scan# 1618

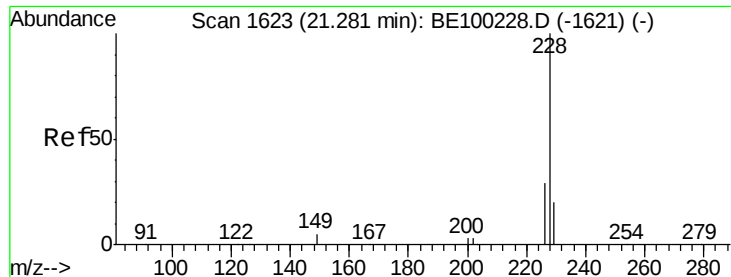
Delta R.T. 0.00 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.2	34.8
229	21.2	15.7	23.5





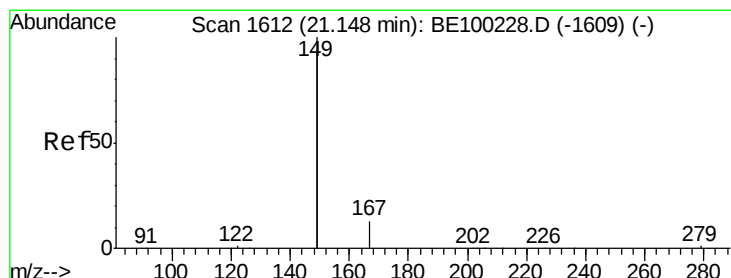
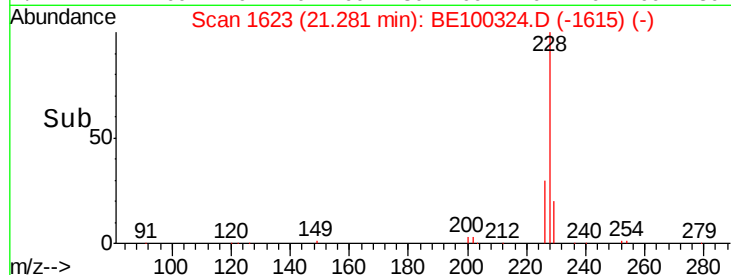
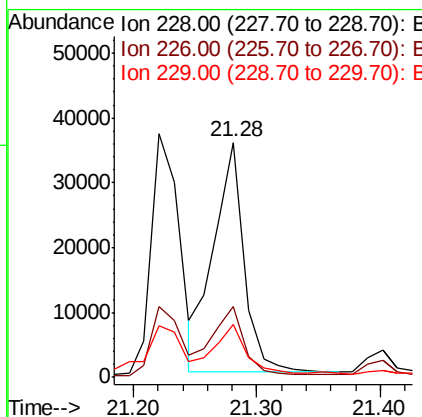
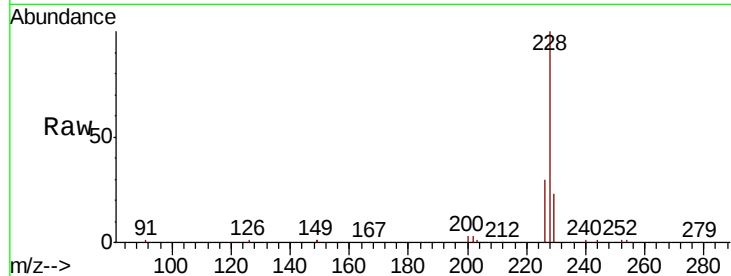
#31
 Chrysene
 Concen: 2.350 ng
 RT: 21.28 min Scan# 1623
 Delta R.T. 0.00 min
 Lab File: BE100324.D
 Acq: 3 Jul 2019 12:20

Instrument :
 BNA_E
 ClientSampleId :
 PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.9	35.9
229	22.7	16.5	24.7

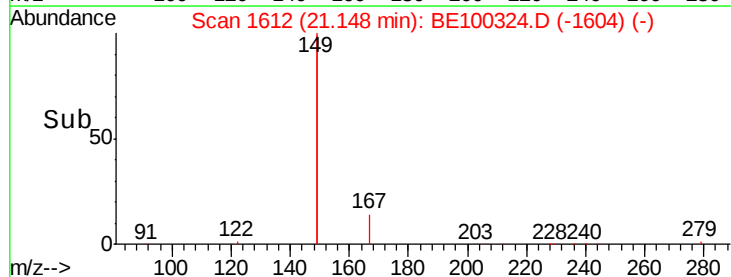
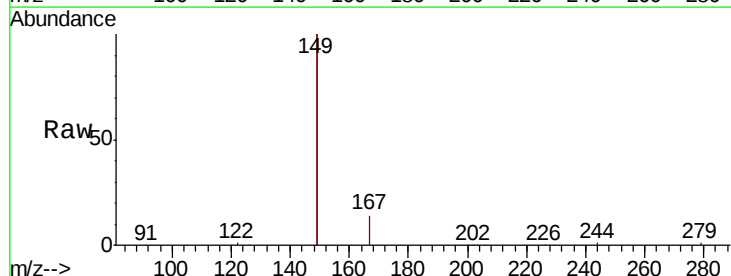
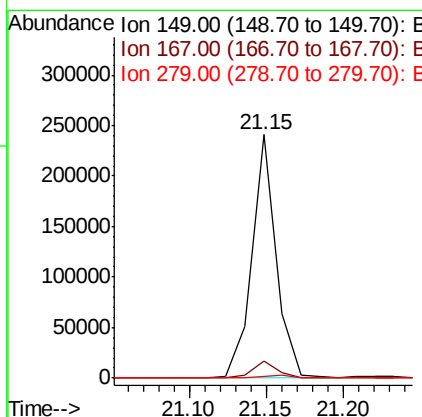
Manual Integrations
 APPROVED

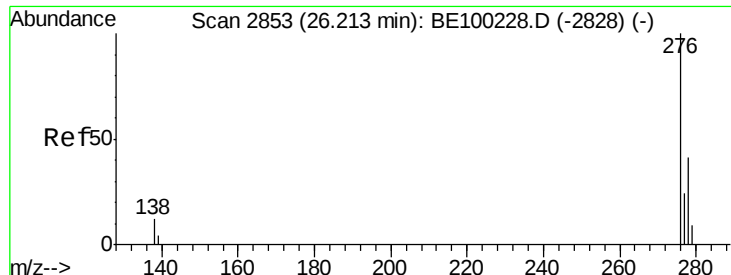
mohammad
 7/5/2019 8:53:39 AM



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 6.981 ng
 RT: 21.15 min Scan# 1612
 Delta R.T. 0.00 min
 Lab File: BE100324.D
 Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
149	100		
167	7.2	5.8	8.8
279	1.4	1.1	1.7





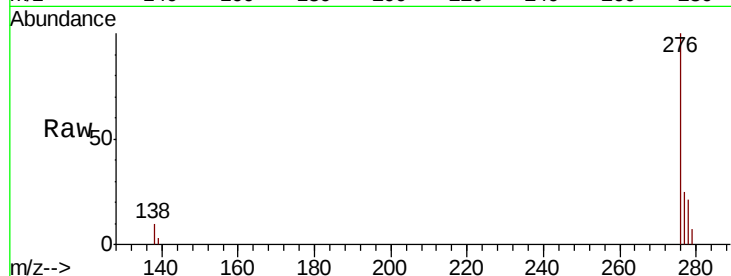
#33
Indeno(1,2,3-cd)pyrene
Concen: 1.010 ng
RT: 26.22 min Scan# 2855
Delta R.T. 0.01 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.0	9.4	14.0#
277	22.8	19.2	28.8

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM

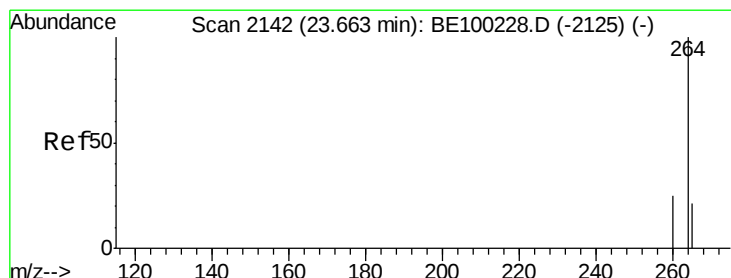
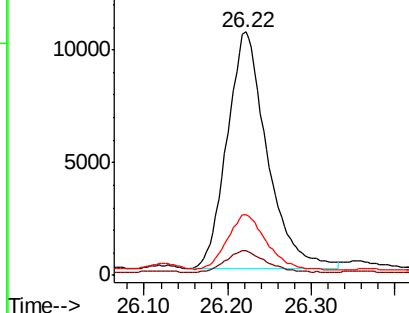
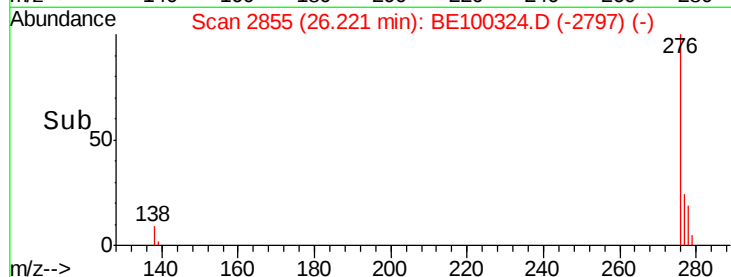


Abundance

Ion 276.00 (275.70 to 276.70): E

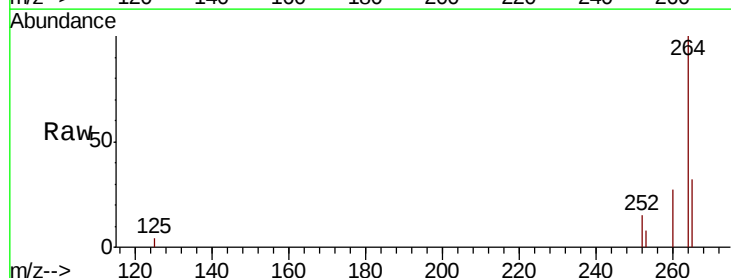
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.9	20.8	31.2
265	31.9	21.8	32.6

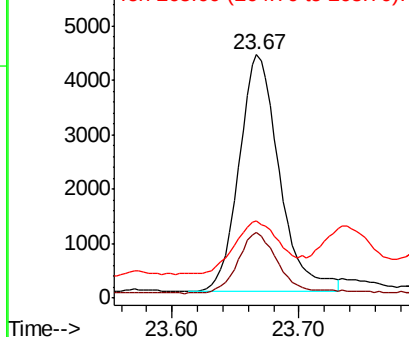
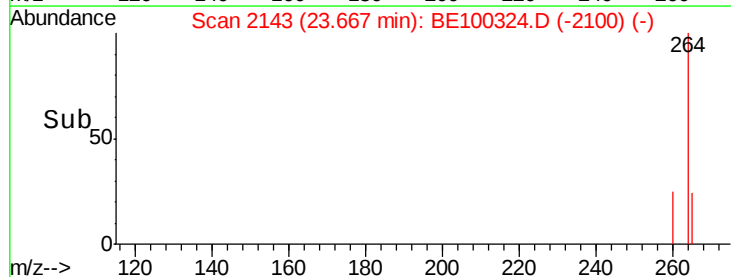


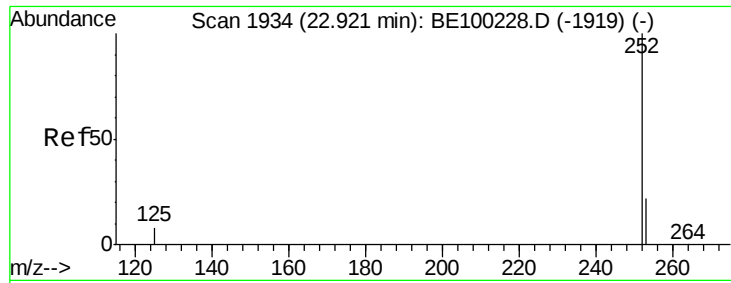
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





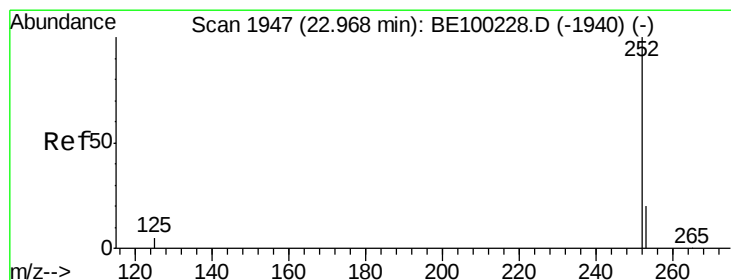
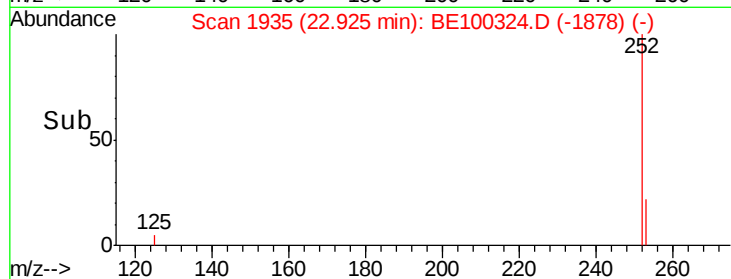
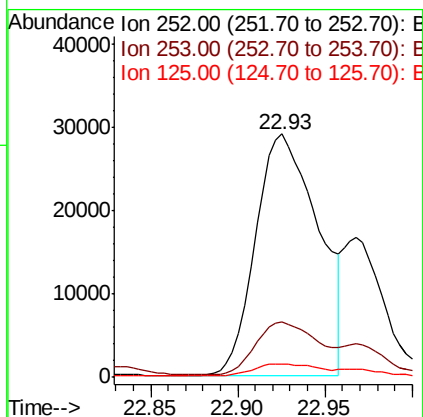
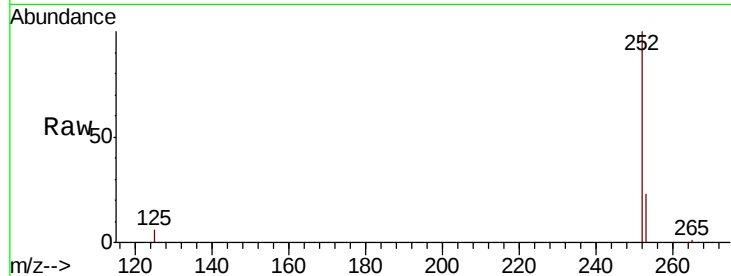
#35
Benzo(b)fluoranthene
Concen: 2.760 ng
RT: 22.93 min Scan# 1935
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Instrument :
BNA_E
ClientSampleId :
PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.2	28.8
125	5.7	7.4	11.0

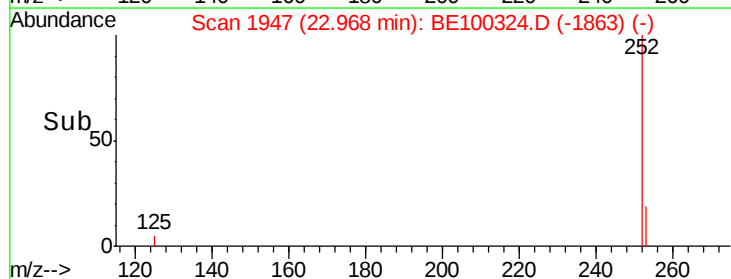
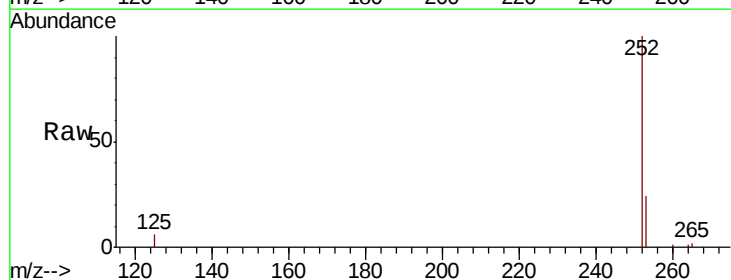
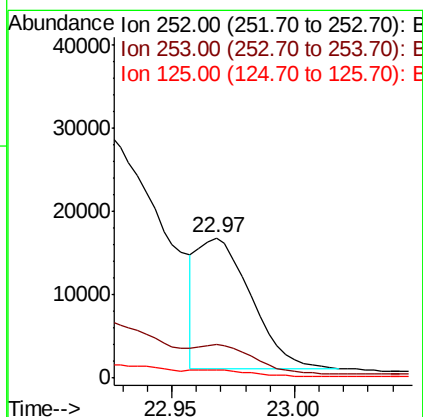
Manual Integrations
APPROVED

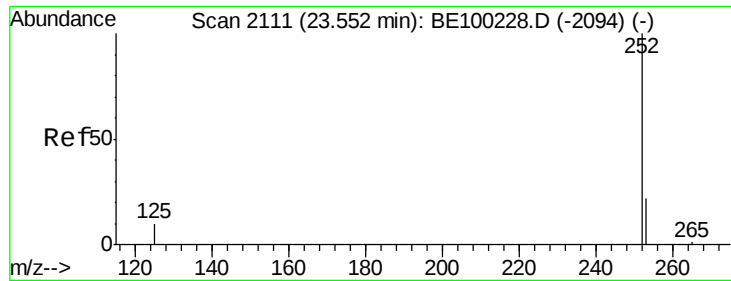
mohammad
7/5/2019 8:53:39 AM



#36
Benzo(k)fluoranthene
Concen: 0.819 ng m
RT: 22.97 min Scan# 1947
Delta R.T. 0.00 min
Lab File: BE100324.D
Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	5.8	5.0	7.4





#37

Benzo(a)pyrene

Concen: 1.845 ng/mL

RT: 23.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

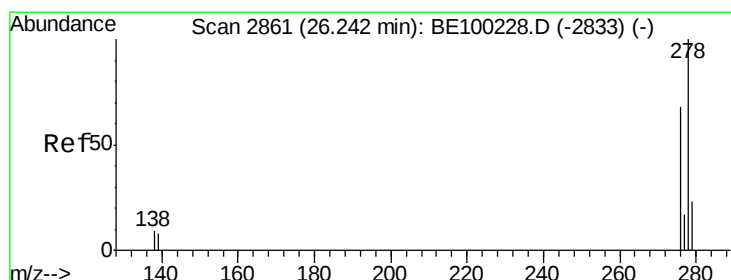
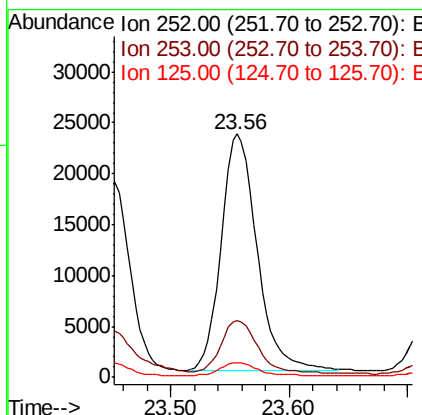
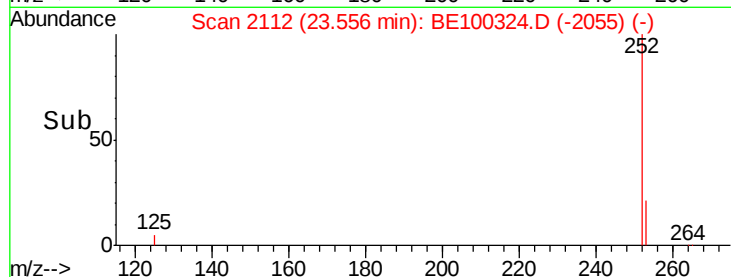
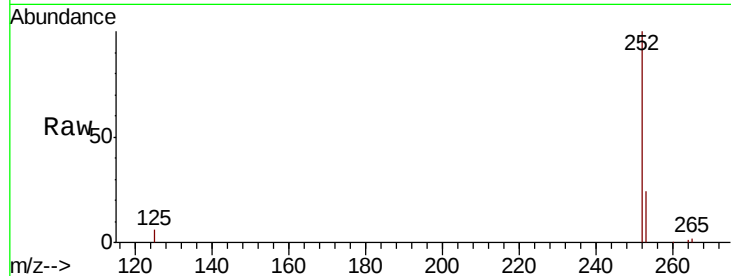
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.6	29.4
125	6.1	9.0	13.6

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



#38

Dibenzo(a,h)anthracene

Concen: 0.306 ng/mL

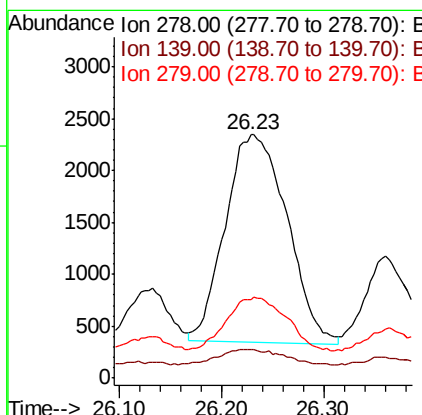
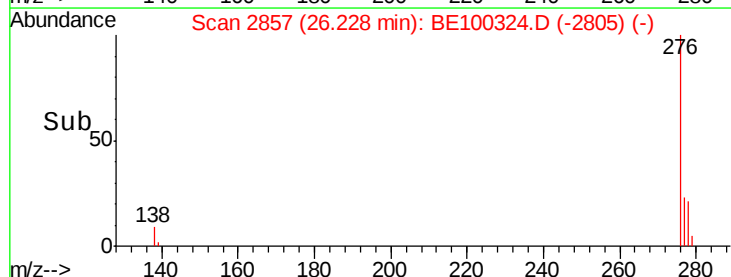
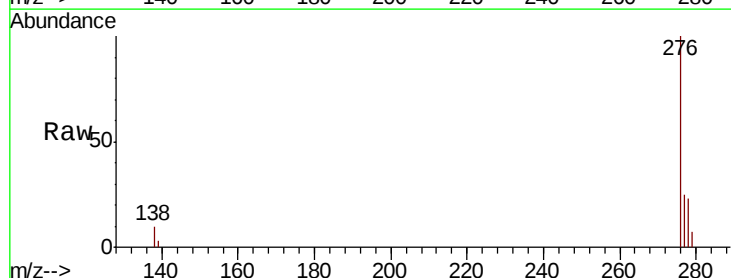
RT: 26.23 min Scan# 2857

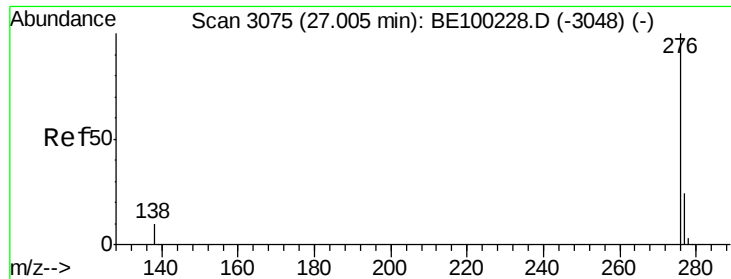
Delta R.T. -0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.9	8.2	12.2
279	32.3	20.3	30.5





#39

Benzo(a,h,i)perylene

Concen: 1.296 ng

RT: 27.01 min Scan# 3077

Delta R.T. 0.01 min

Lab File: BE100324.D

Acq: 3 Jul 2019 12:20

Instrument :

BNA_E

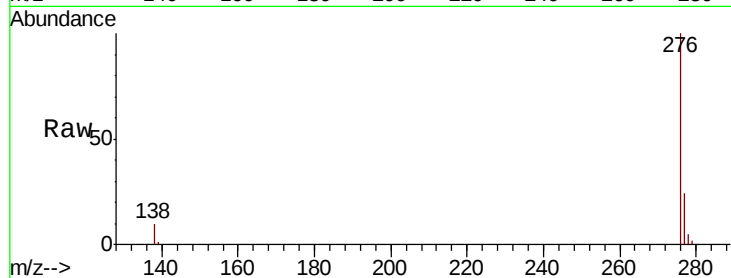
ClientSampleId :

PST-013-SW107-062019-1DL

Tot Ion:	276	Resp:	36572
Ion Ratio	Lower	Upper	
276	100		
277	24.2	20.2	30.2
138	10.2	9.0	13.6

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:39 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

