

Data Path : Z:\HPCHEM1\BNA E\DATA\BE012417\
 Data File : BE092681.D
 Acq On : 25 Jan 2017 00:47
 Operator : UM/SJ
 Sample : I1378-09MSD 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RVE-10

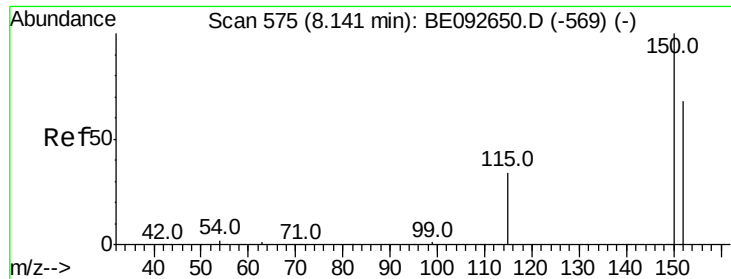
Manual Integrations
 APPROVED

mohammad
 1/25/2017 4:54:09 PM

Quant Time: Jan 25 13:45:42 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 10:14:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	10677	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	54427	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	36042	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	76473	5.00	ng	0.00
24) Chrysene-d12	21.72	240	72863	5.00	ng	0.00
31) Perylene-d12	24.07	264	75723	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	2124	0.89	ng	0.00
5) Phenol-d6	7.31	99	3090	1.06	ng	-0.02
8) Nitrobenzene-d5	9.32	82	1516	0.43	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	746	0.82	ng	0.01
14) 2-Fluorobiphenyl	13.41	172	3969	0.45	ng	-0.01
26) Terphenyl-d14	20.16	244	4707	0.46	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.39	88	660	0.40	ng	Qvalue # 93
3) n-Nitrosodimethylamine	3.77	42	728	0.38	ng	# 94
6) bis(2-Chloroethyl)ether	7.57	93	1365	0.44	ng	# 81
9) Naphthalene	10.95	128	6015	0.53	ng	96
10) Hexachlorobutadiene	11.24	225	827	0.49	ng	99
11) 2-Methylnaphthalene	12.60	142	3593	0.51	ng	94
15) Acenaphthylene	14.49	152	25470	0.51	ng	100
16) Acenaphthene	14.85	154	4293	0.54	ng	94
17) Fluorene	15.83	166	5403	0.54	ng	99
19) Hexachlorobenzene	16.87	284	1345m	0.46	ng	
20) Pentachlorophenol	17.28	266	547	0.70	ng	97
21) Phenanthrene	17.58	178	13589	0.81	ng	# 95
22) Anthracene	17.67	178	10709	0.69	ng	98
23) Fluoranthene	19.58	202	66567	0.89	ng	99
25) Pyrene	19.93	202	65962	0.92	ng	97
27) Benzo(a)anthracene	21.70	228	50759	0.71	ng	# 80
28) Chrysene	21.75	228	55021m	0.68	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	6828	0.67	ng	# 74
30) Indeno(1,2,3-cd)pyrene	26.53	276	49367	0.57	ng	97
32) Benzo(b)fluoranthene	23.34	252	12476	0.68	ng	99
33) Benzo(k)fluoranthene	23.38	252	11284	0.61	ng	97
34) Benzo(a)pyrene	23.95	252	11931	0.69	ng	99
35) Dibenzo(a,h)anthracene	26.56	278	8901	0.53	ng	99
36) Benzo(g,h,i)perylene	27.30	276	44198	0.62	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

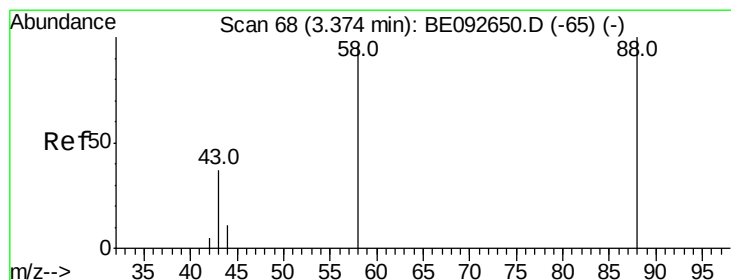
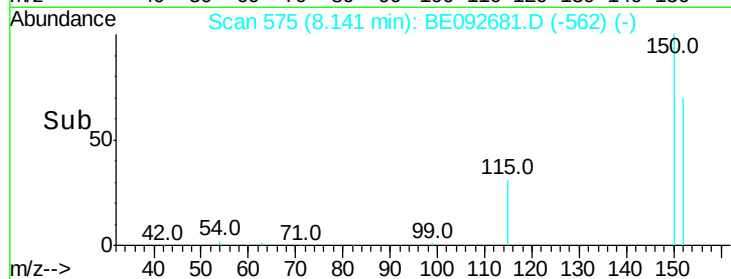
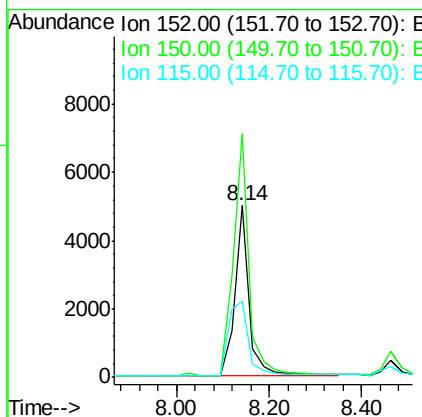
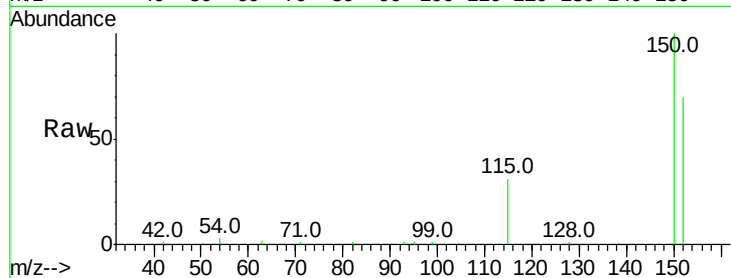
ClientSampleId :

RVE-10

Tot Ion	Ratio	Lower	Upper
152	100		
150	142.0	106.0	159.0
115	44.6	31.2	46.8

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#2

1,4-Dioxane

Concen: 0.40 ng

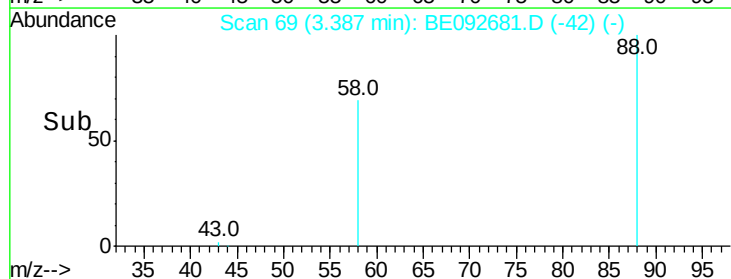
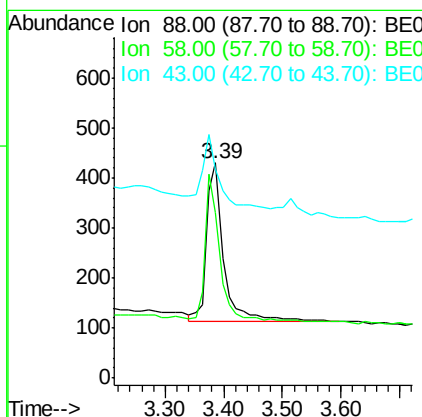
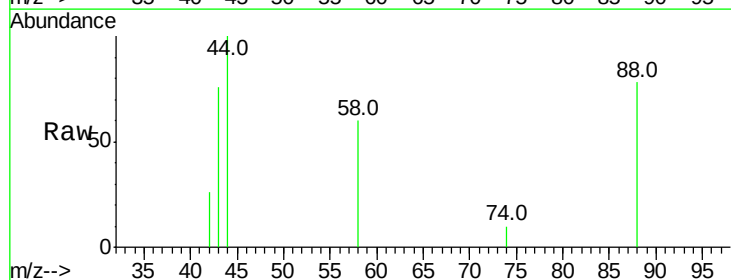
RT: 3.39 min Scan# 69

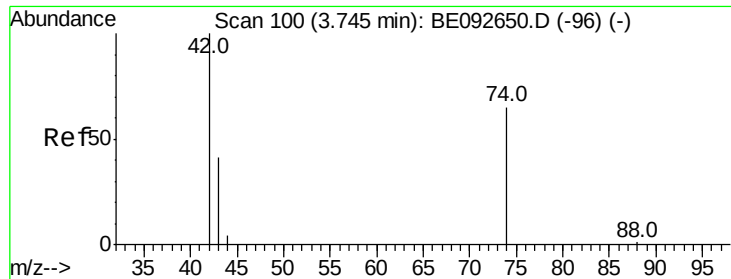
Delta R.T. 0.01 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	77.3	63.6	95.4
43	44.4	28.0	42.0





#3

n-Nitrosodimethylamine

Concen: 0.38 ng

RT: 3.77 min Scan# 102

Delta R.T. 0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

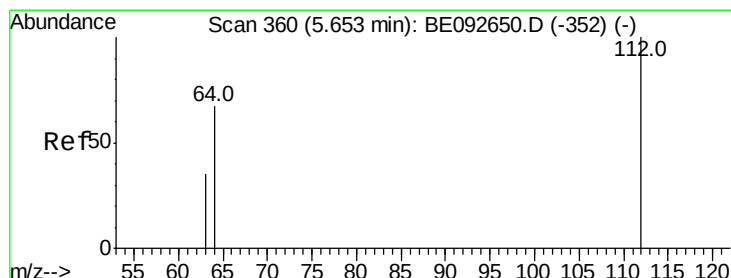
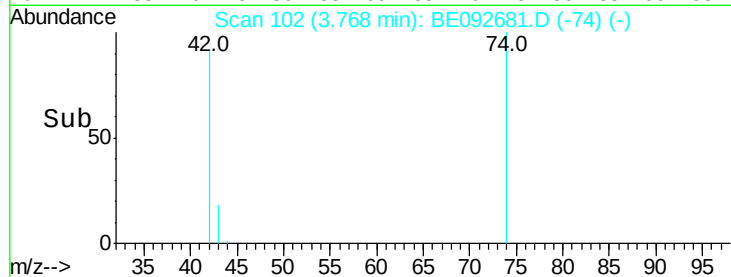
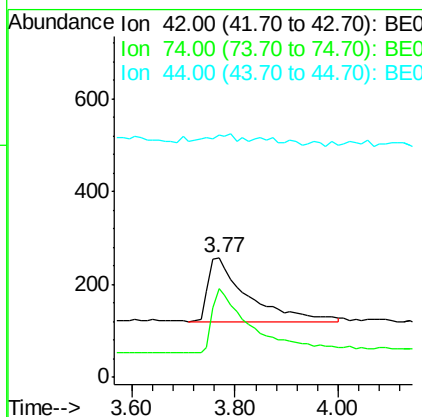
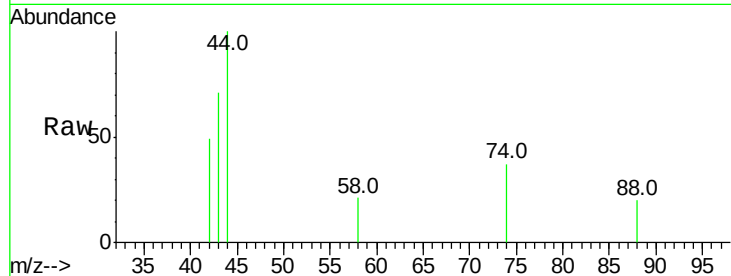
ClientSampled :

RVE-10

Tot Ion:	42	Resp:	728
Ion Ratio	Lower	Upper	
42	100		
74	101.8	86.0	129.0
44	0.0	5.1	7.7#

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#4

2-Fluorophenol

Concen: 0.89 ng

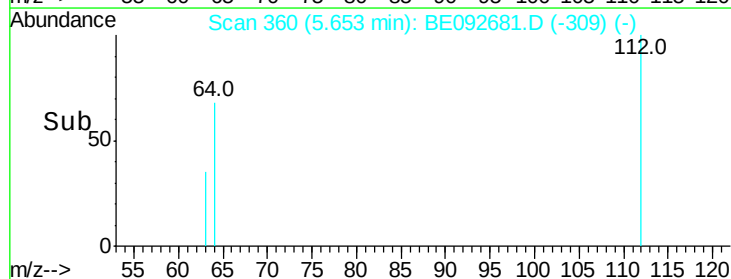
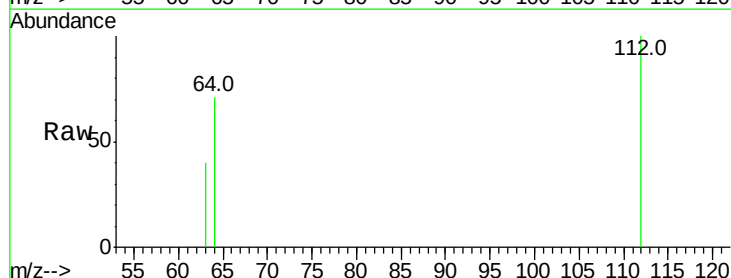
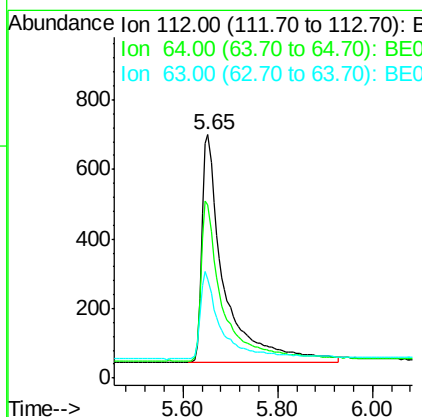
RT: 5.65 min Scan# 360

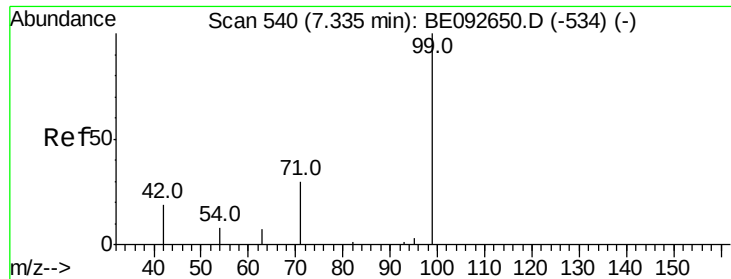
Delta R.T. -0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	112	Resp:	2124
Ion Ratio	Lower	Upper	
112	100		
64	70.1	53.5	80.3
63	36.4	27.9	41.9





#5

Phenol-d6

Concen: 1.06 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

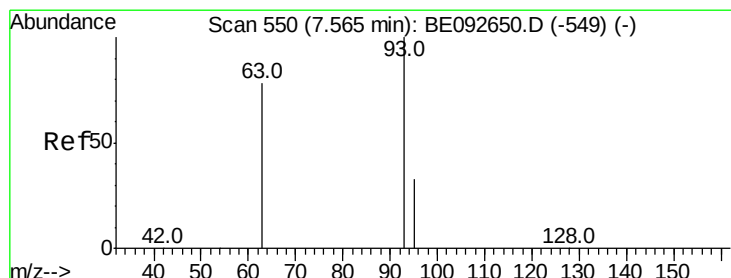
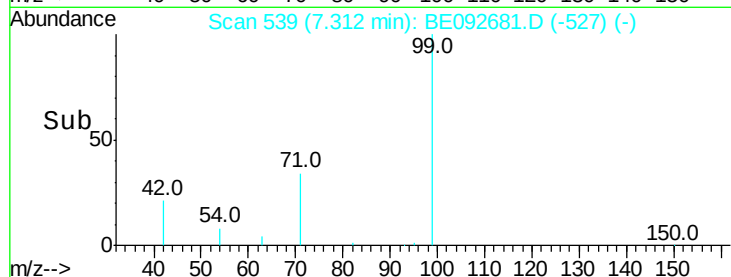
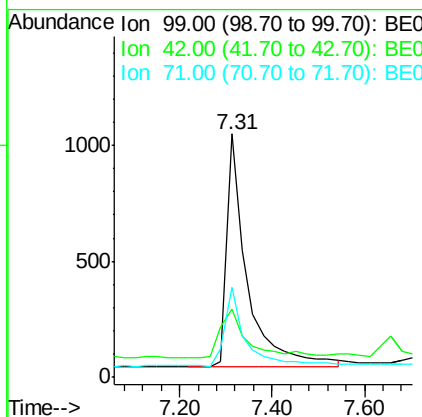
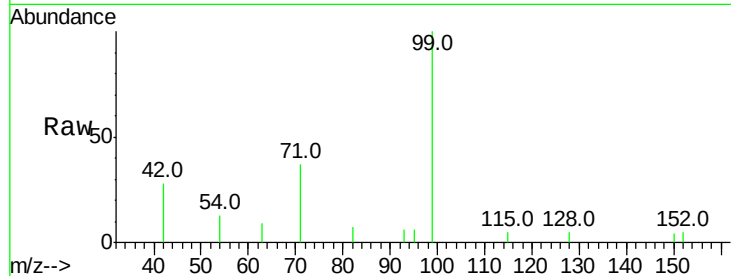
ClientSampled :

RVE-10

Tot Ion:	99	Resp:	3090
Ion	Ratio	Lower	Upper
99	100		
42	27.9	16.0	24.0#
71	33.9	30.6	45.8

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#6

bis(2-Chloroethyl)ether

Concen: 0.44 ng

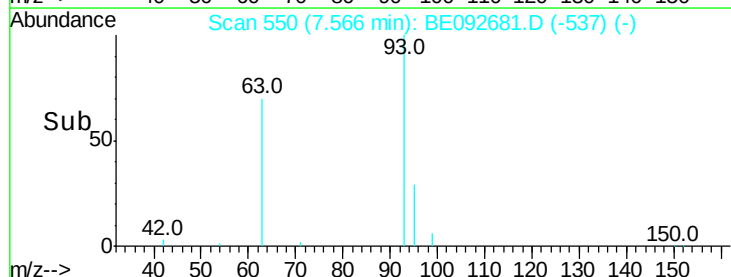
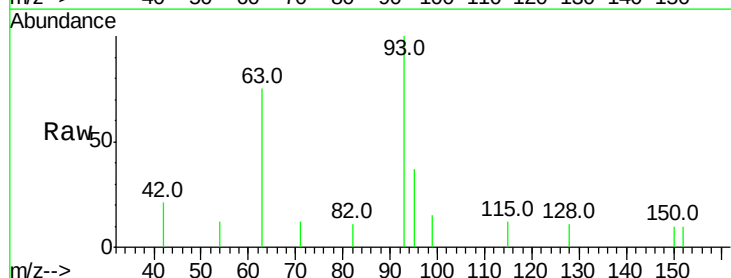
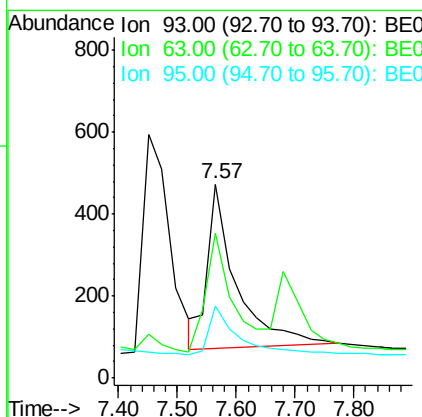
RT: 7.57 min Scan# 550

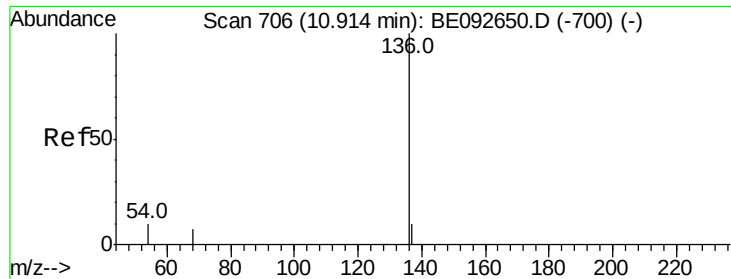
Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	93	Resp:	1365
Ion	Ratio	Lower	Upper
93	100		
63	66.3	71.6	107.4#
95	30.7	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

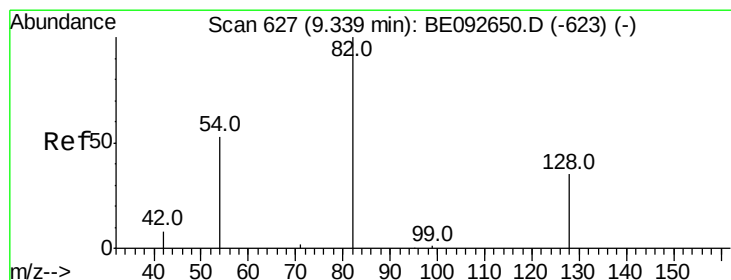
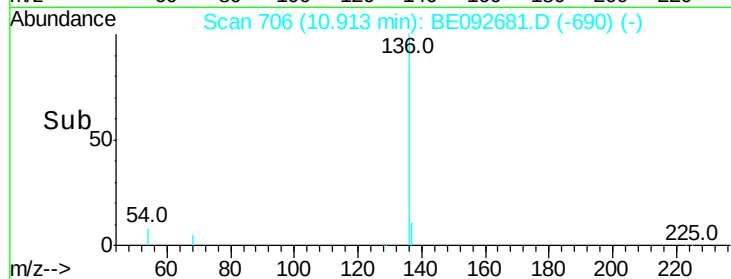
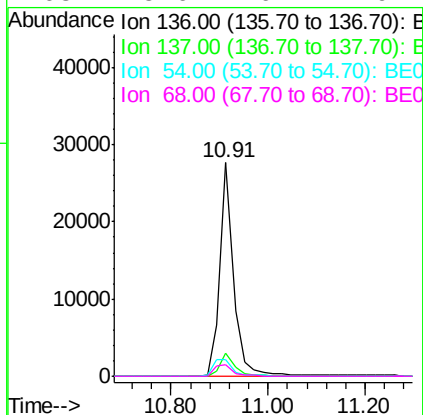
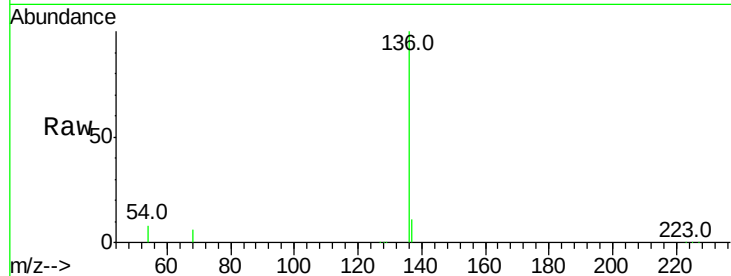
ClientSampleId :

RVE-10

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.2	12.4
54	7.7	9.6	14.4#
68	5.6	6.7	10.1#

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#8

Nitrobenzene-d5

Concen: 0.43 ng

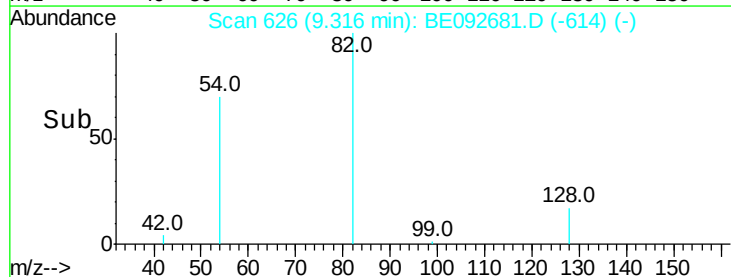
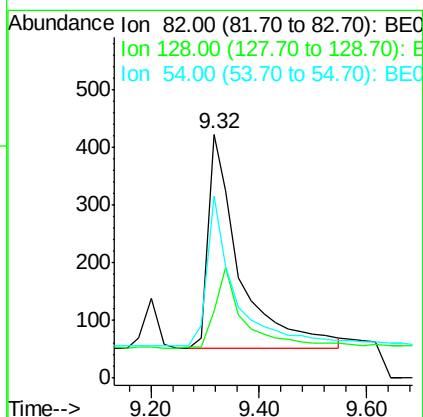
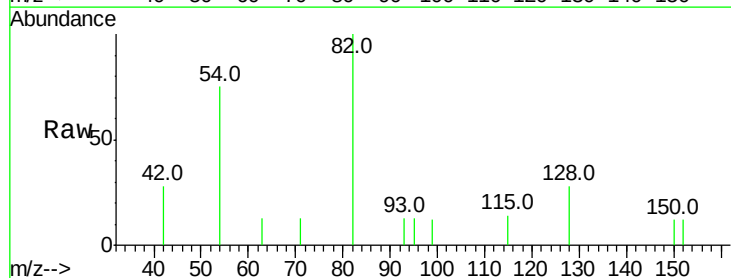
RT: 9.32 min Scan# 626

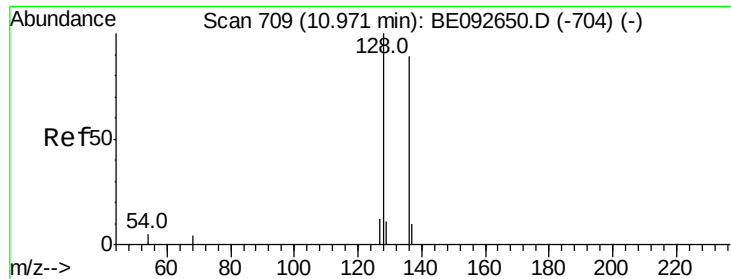
Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
82	100		
128	27.7	39.0	58.4#
54	74.9	44.8	67.2#





#9

Naphthalene

Concen: 0.53 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

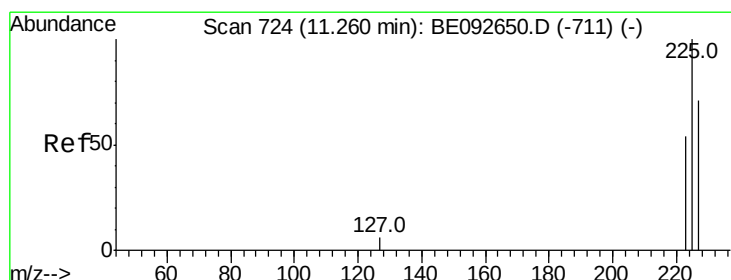
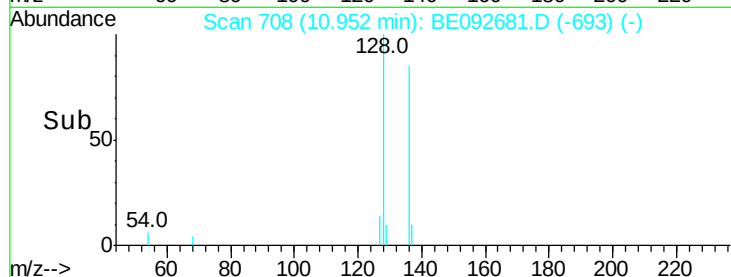
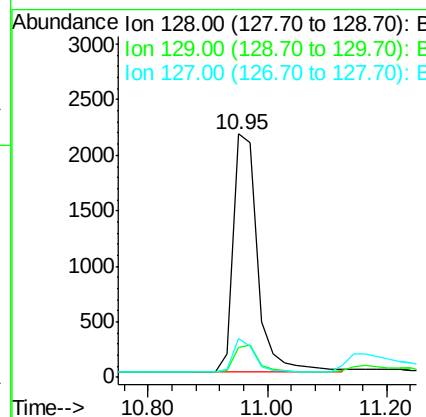
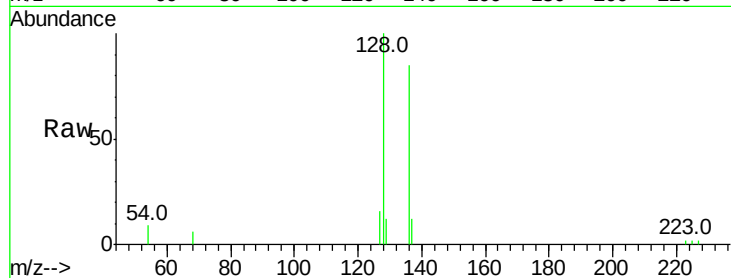
ClientSampleId :

RVE-10

Tot Ion:	128	Resp:	6015
Ion Ratio	Lower	Upper	
128	100		
129	12.1	11.2	16.8
127	16.1	11.6	17.4

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#10

Hexachlorobutadiene

Concen: 0.49 ng

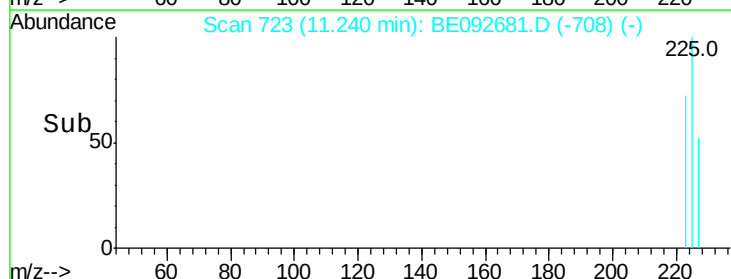
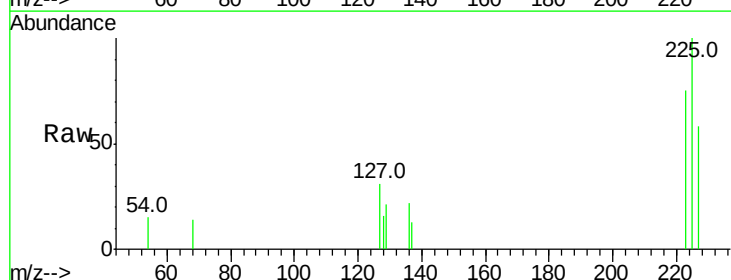
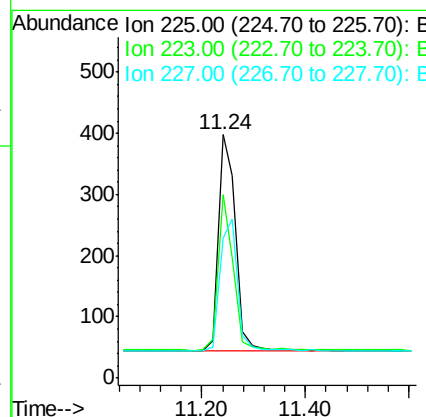
RT: 11.24 min Scan# 723

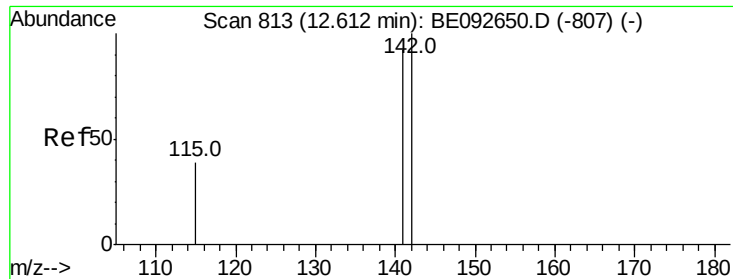
Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	225	Resp:	827
Ion Ratio	Lower	Upper	
225	100		
223	63.6	50.6	76.0
227	63.6	51.4	77.0





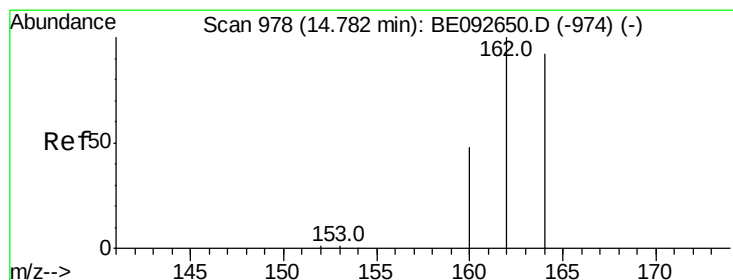
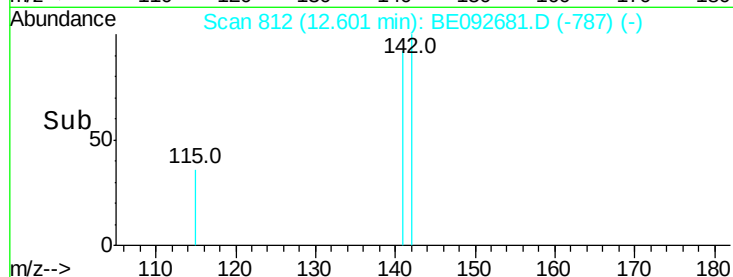
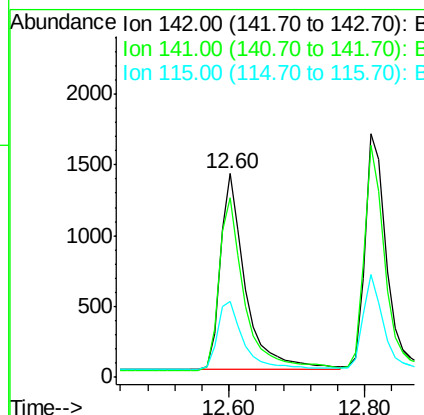
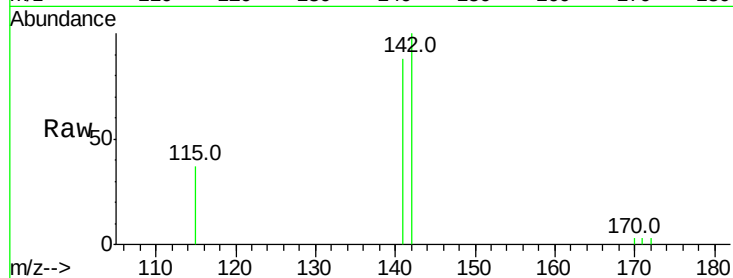
#11
2-Methylnaphthalene
Concen: 0.51 ng
RT: 12.60 min Scan# 812
Delta R.T. -0.01 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampleId :
RVE-10

Tot Ion:142 Resp: 3593
Ion Ratio Lower Upper
142 100
141 87.8 73.7 110.5
115 37.2 34.0 51.0

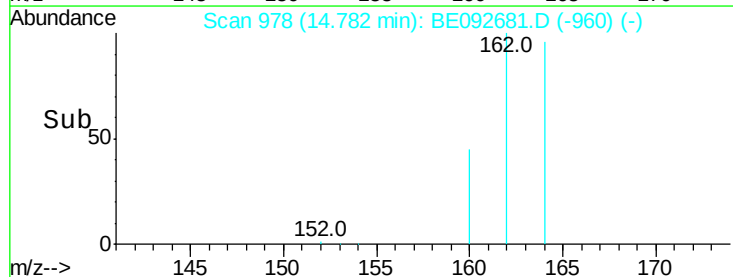
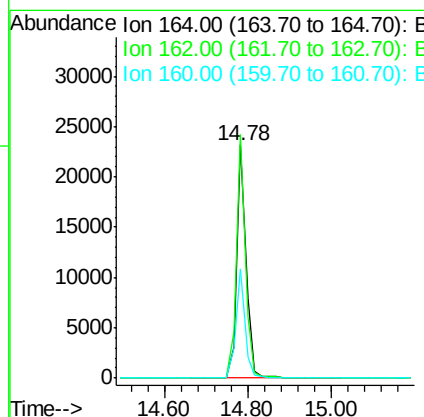
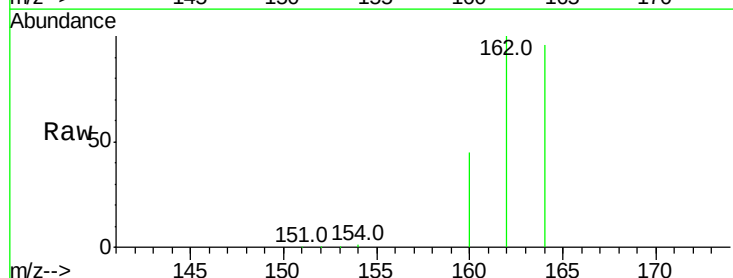
Manual Integrations
APPROVED

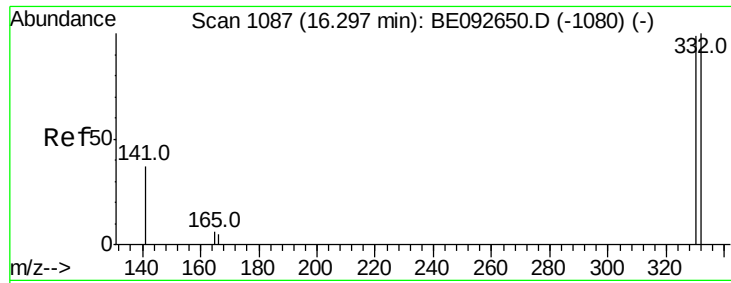
mohammad
1/25/2017 4:54:09 PM



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.78 min Scan# 978
Delta R.T. 0.00 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion:164 Resp: 36042
Ion Ratio Lower Upper
164 100
162 104.5 71.4 107.0
160 46.7 27.4 41.2#





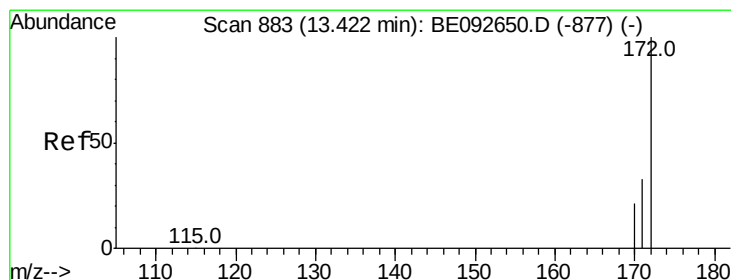
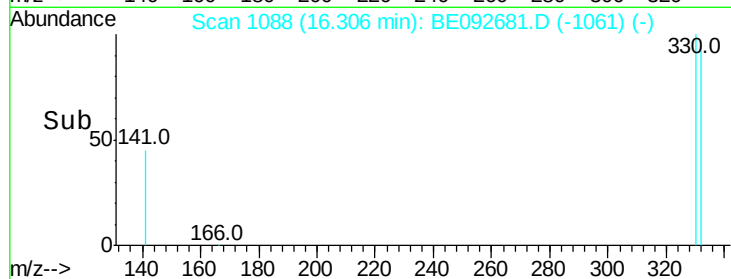
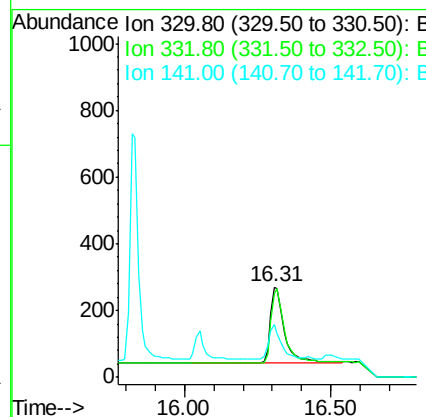
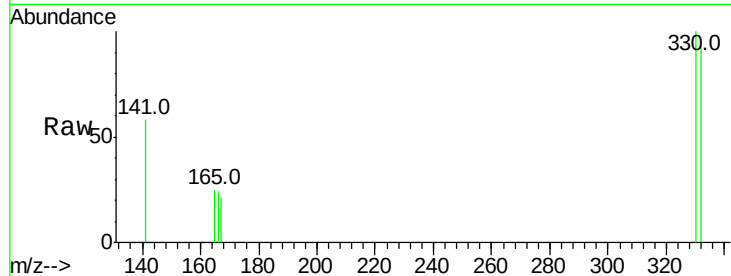
#13
 2,4,6-Tribromophenol
 Concen: 0.82 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: BE092681.D
 Acq: 25 Jan 2017 00:47

Instrument :
 BNA_E
 ClientSampled :
 RVE-10

Tot Ion:330 Resp: 746
 Ion Ratio Lower Upper
 330 100
 332 100.1 75.4 113.0
 141 41.3 31.0 46.6

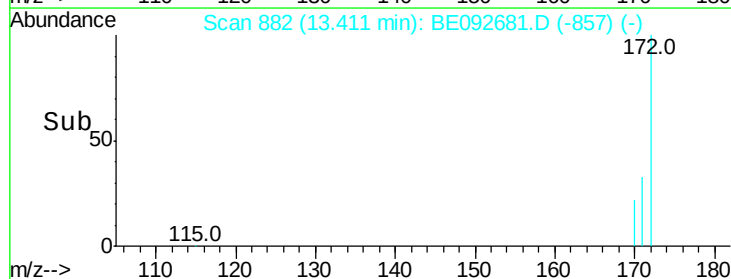
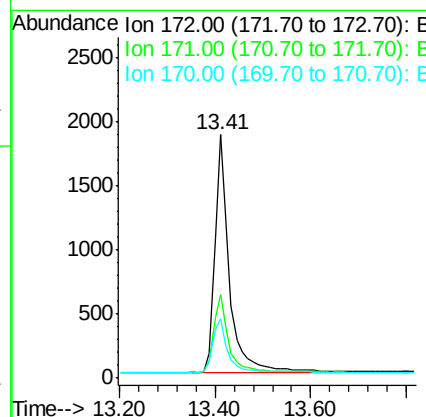
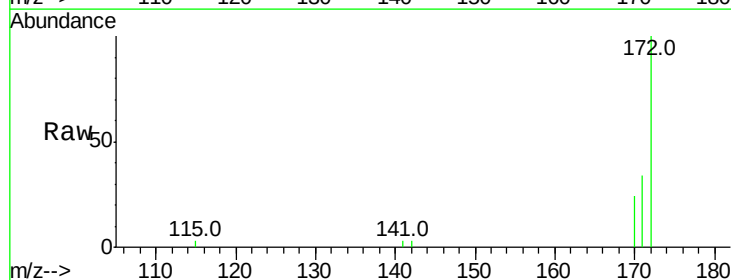
Manual Integrations
 APPROVED

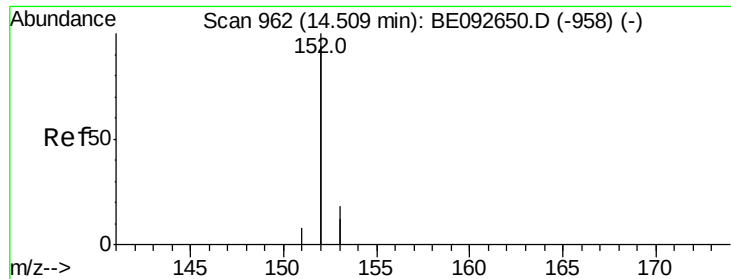
mohammad
 1/25/2017 4:54:09 PM



#14
 2-Fluorobiphenyl
 Concen: 0.45 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.01 min
 Lab File: BE092681.D
 Acq: 25 Jan 2017 00:47

Tgt Ion:172 Resp: 3969
 Ion Ratio Lower Upper
 172 100
 171 34.4 30.1 45.1
 170 24.2 21.8 32.6





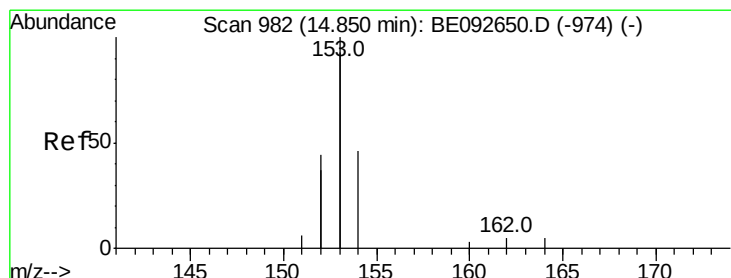
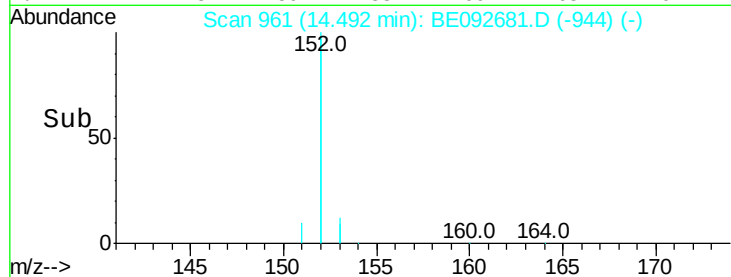
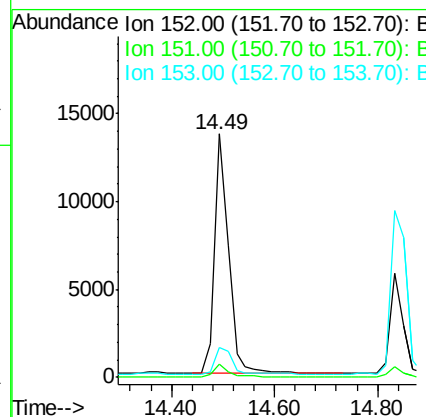
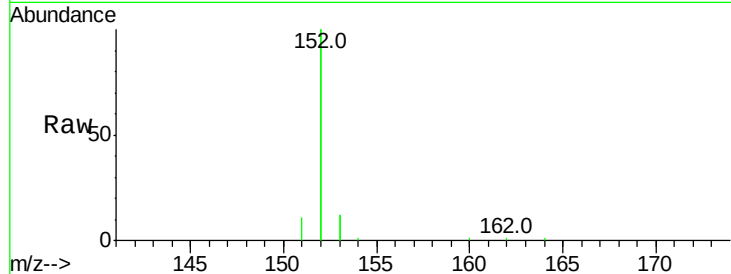
#15
Acenaphthylene
Concen: 0.51 ng
RT: 14.49 min Scan# 961
Delta R.T. -0.02 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampleId :
RVE-10

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

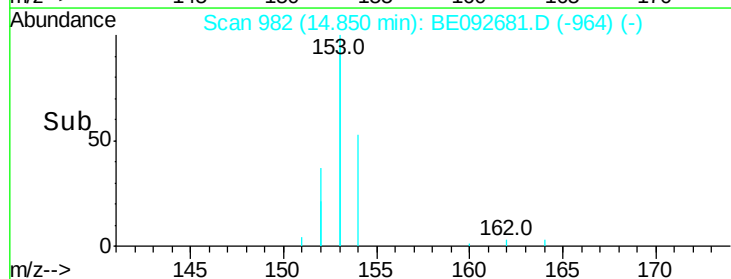
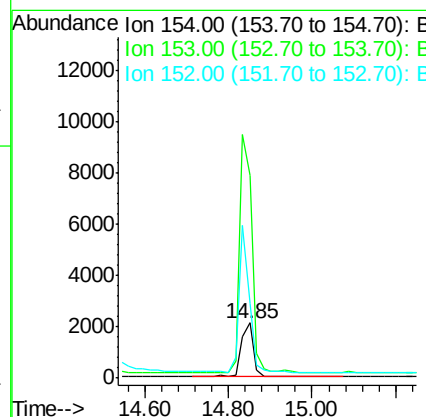
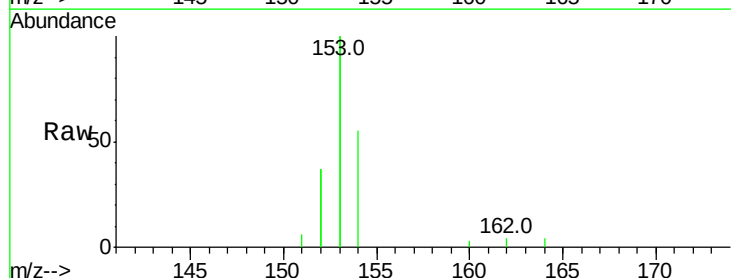
Manual Integrations
APPROVED

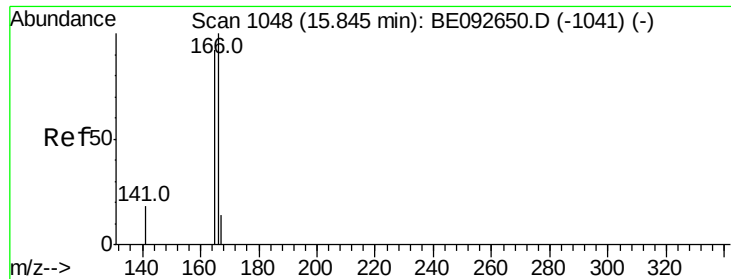
mohammad
1/25/2017 4:54:09 PM



#16
Acenaphthene
Concen: 0.54 ng
RT: 14.85 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
154	100		
153	448.6	350.8	526.2
152	227.5	171.1	256.7





#17

Fluorene

Concen: 0.54 ng

RT: 15.83 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

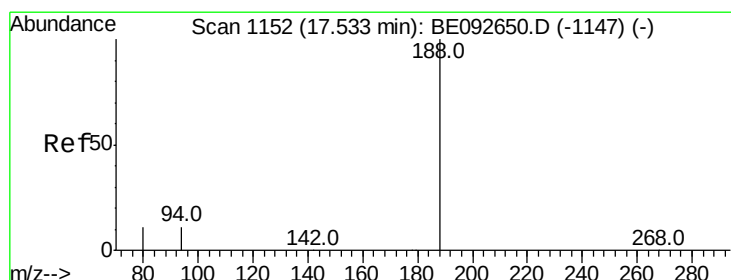
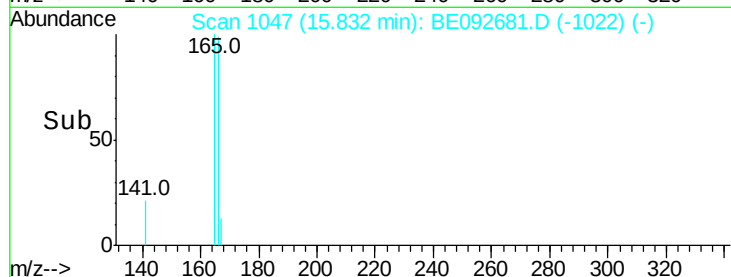
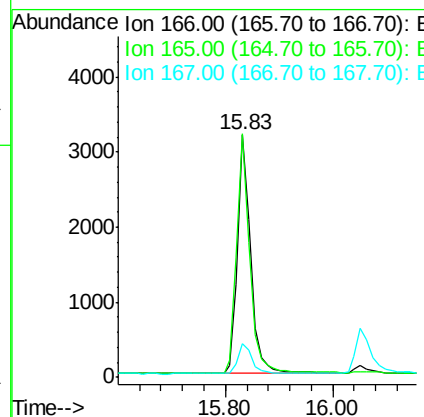
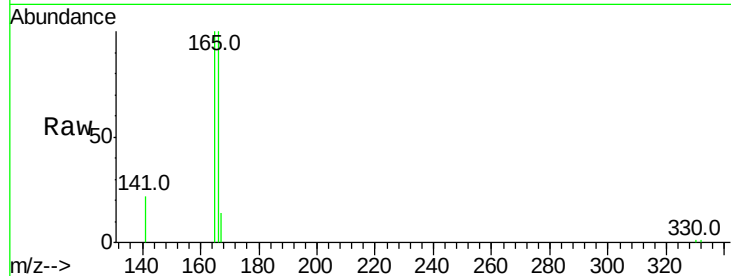
ClientSampleId :

RVE-10

Tot Ion:	166	Resp:	5403
Ion Ratio	Lower	Upper	
166	100		
165	99.2	78.2	117.4
167	13.1	11.0	16.4

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#18

Phenanthrene-d10

Concen: 5.00 ng

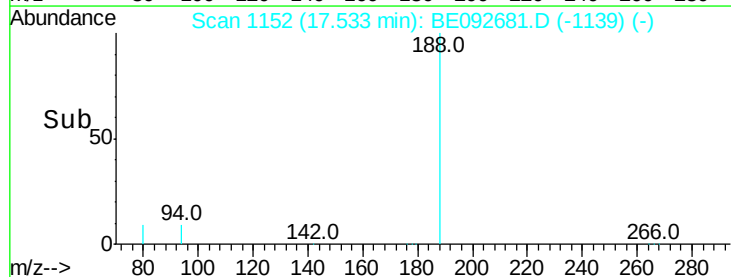
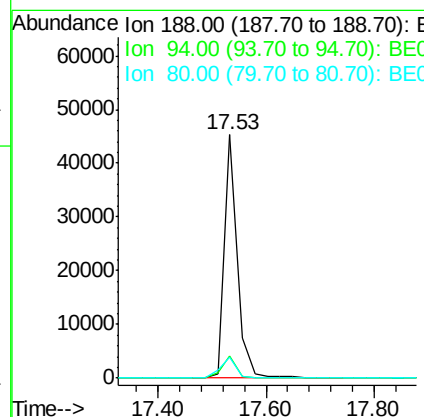
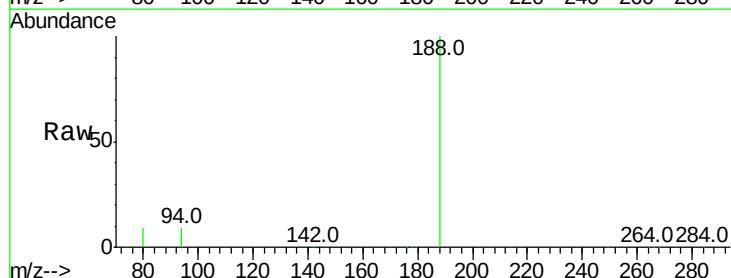
RT: 17.53 min Scan# 1152

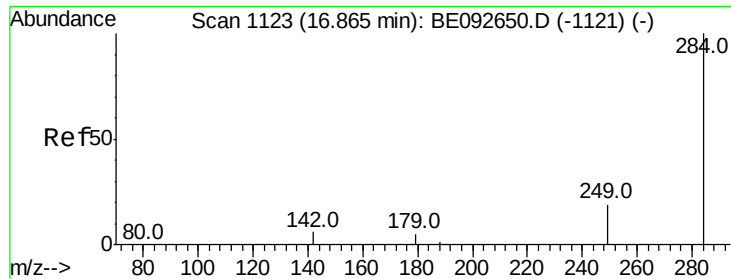
Delta R.T. -0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	188	Resp:	76473
Ion Ratio	Lower	Upper	
188	100		
94	9.0	3.2	4.8#
80	8.7	2.6	3.8#





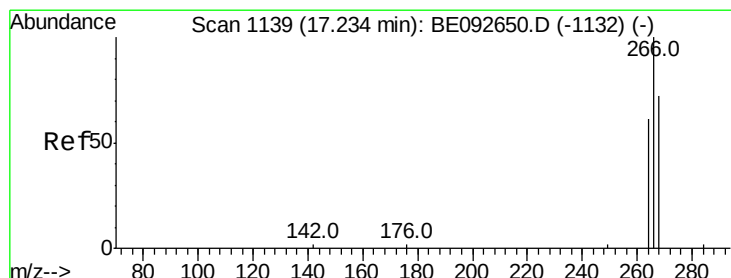
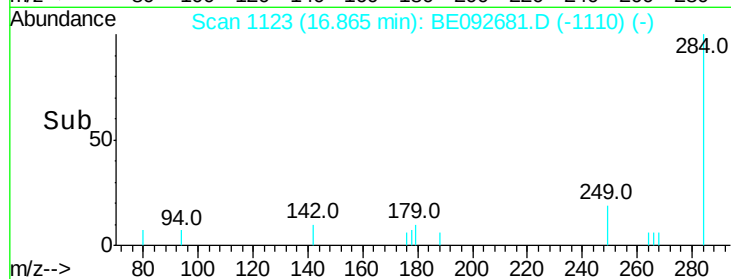
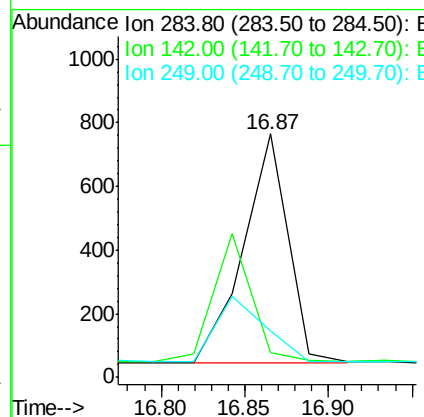
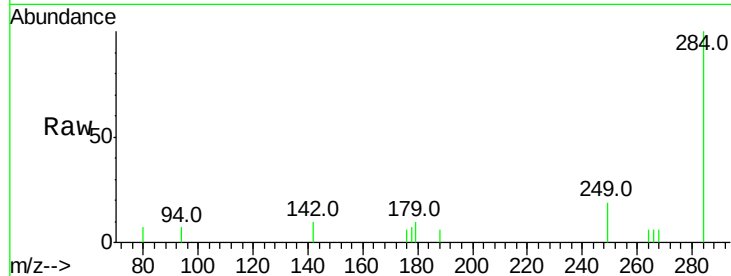
#19
Hexachlorobenzene
Concen: 0.46 ng/ml
RT: 16.87 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampled :
RVE-10

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	0.0	27.9	41.9#

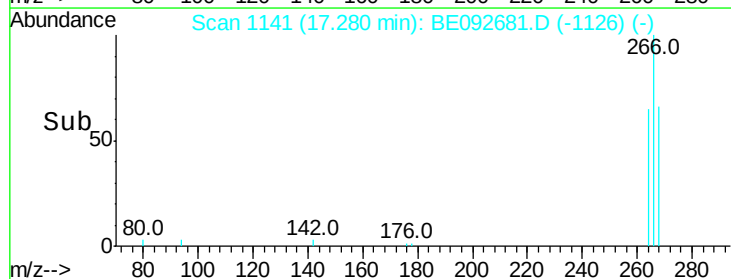
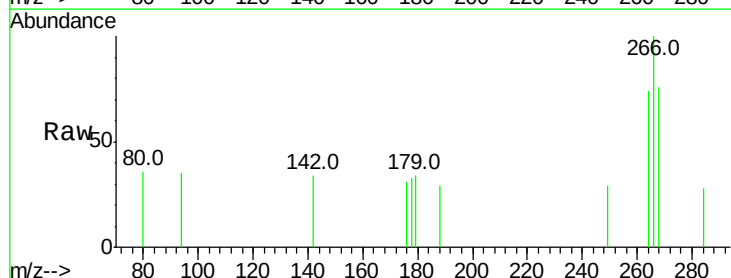
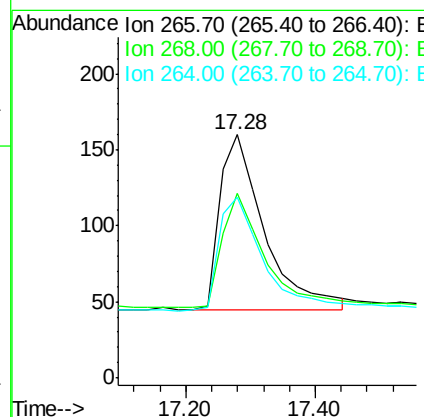
Manual Integrations
APPROVED

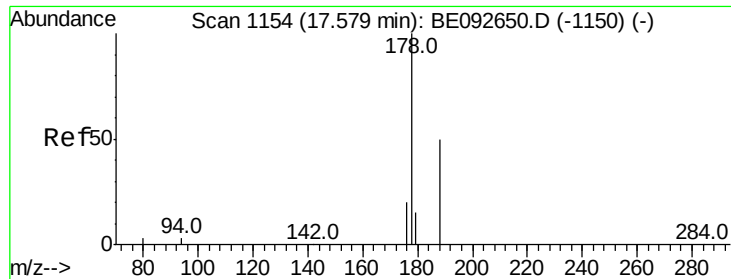
mohammad
1/25/2017 4:54:09 PM



#20
Pentachlorophenol
Concen: 0.70 ng/ml
RT: 17.28 min Scan# 1141
Delta R.T. 0.05 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
266	100		
268	75.6	62.5	93.7
264	74.4	57.2	85.8





#21

Phenanthrene

Concen: 0.81 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

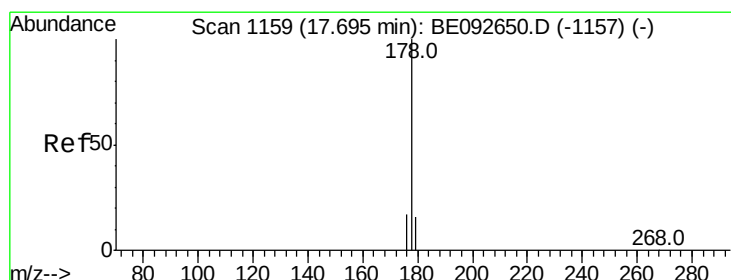
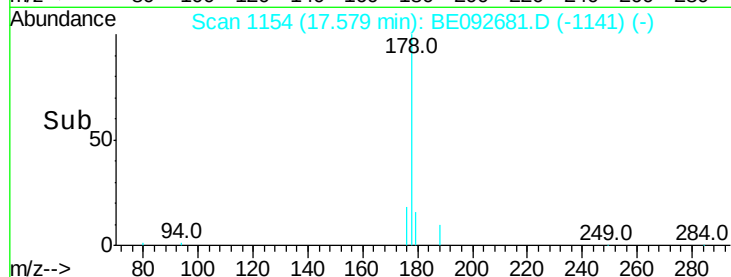
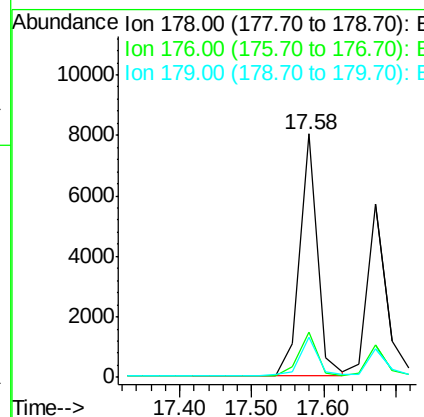
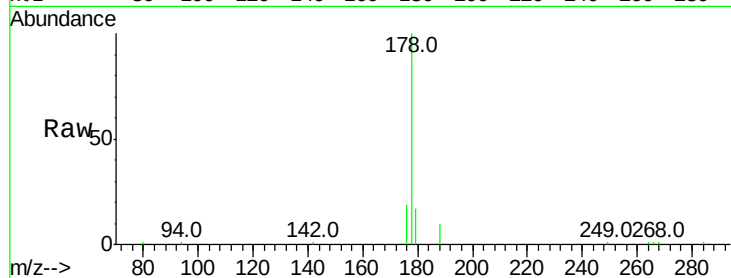
ClientSampled :

RVE-10

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	16.0	16.0	24.0

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#22

Anthracene

Concen: 0.69 ng

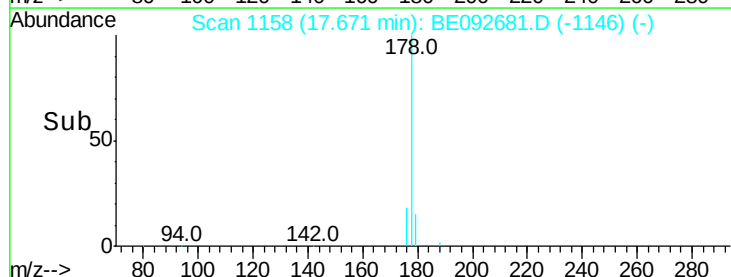
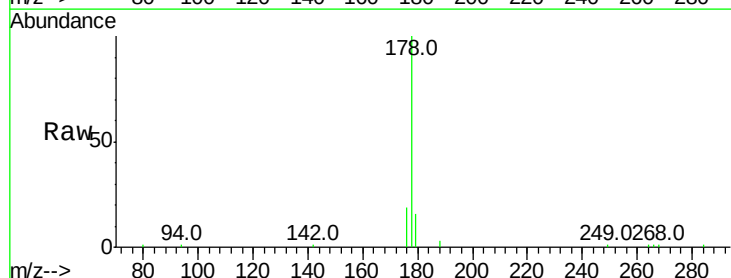
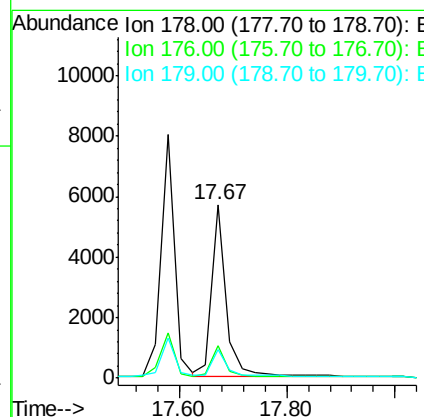
RT: 17.67 min Scan# 1158

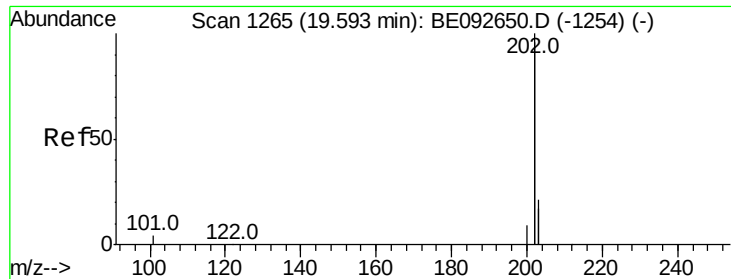
Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	16.5	12.2	18.2





#23

Fluoranthene

Concen: 0.89 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

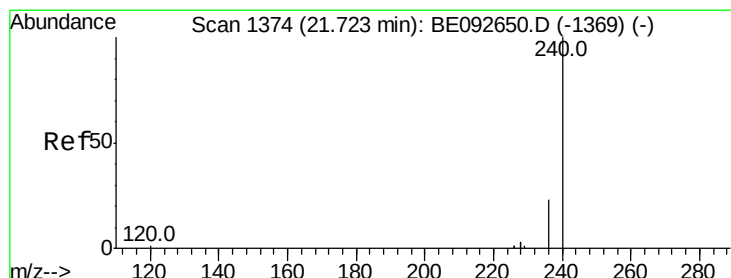
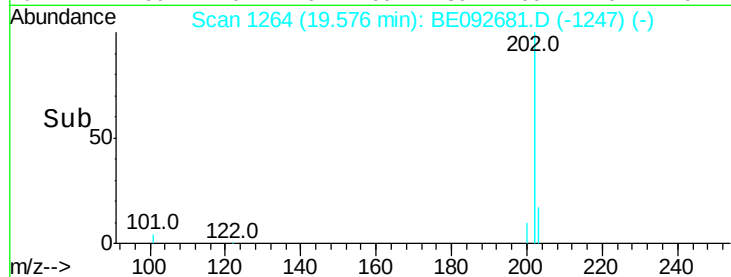
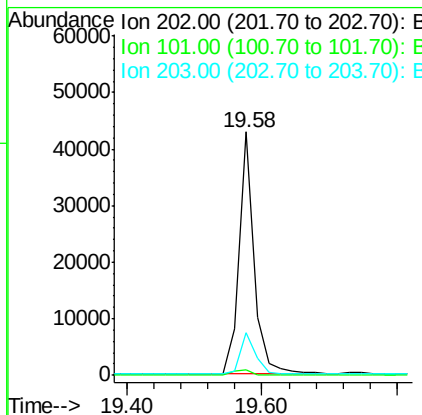
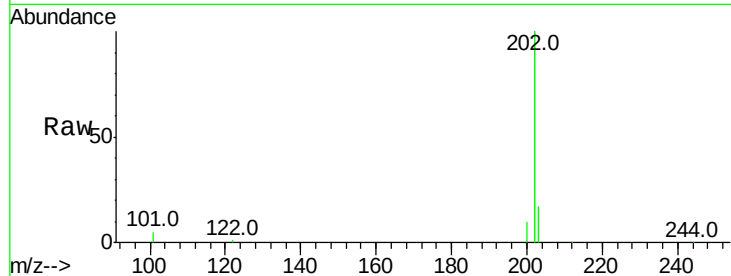
ClientSampled :

RVE-10

Tot Ion:	202	Resp:	66567
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.4
203	17.4	13.7	20.5

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#24

Chrysene-d12

Concen: 5.00 ng

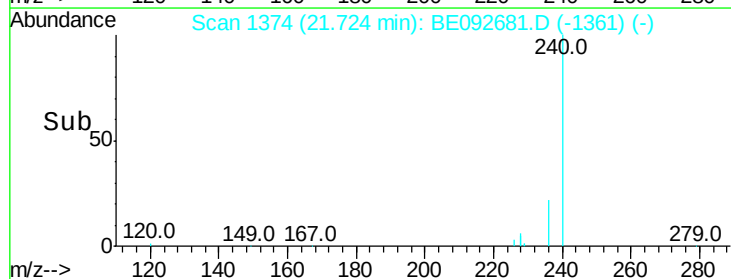
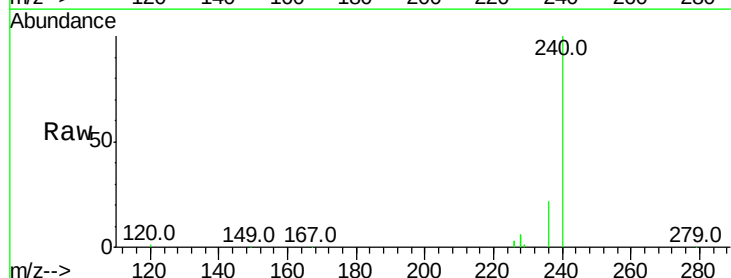
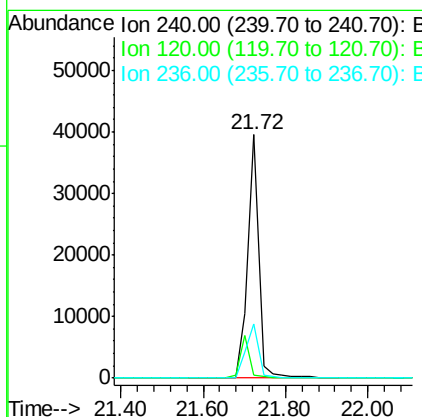
RT: 21.72 min Scan# 1374

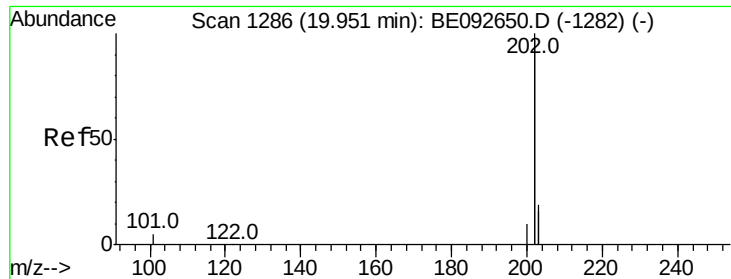
Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	240	Resp:	72863
Ion Ratio	Lower	Upper	
240	100		
120	1.0	2.6	4.0#
236	22.3	24.6	37.0#





#25

Pvrene

Concen: 0.92 ng

RT: 19.93 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

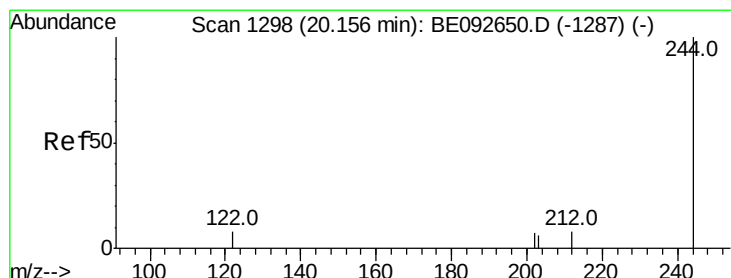
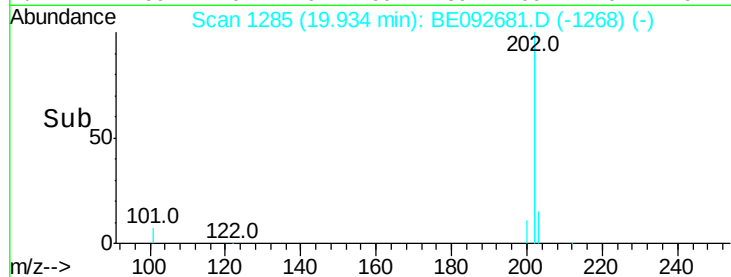
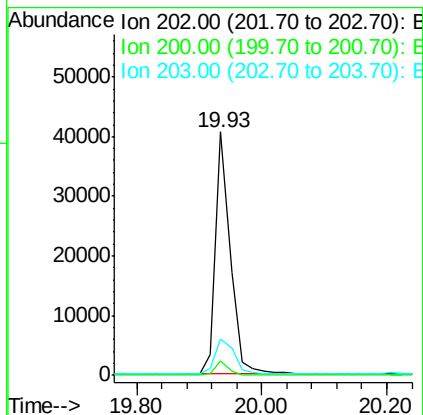
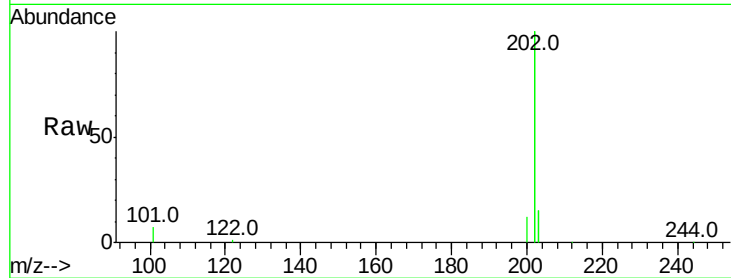
ClientSampled :

RVE-10

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.2	6.4
203	19.0	13.9	20.9

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#26

Terphenyl-d14

Concen: 0.46 ng

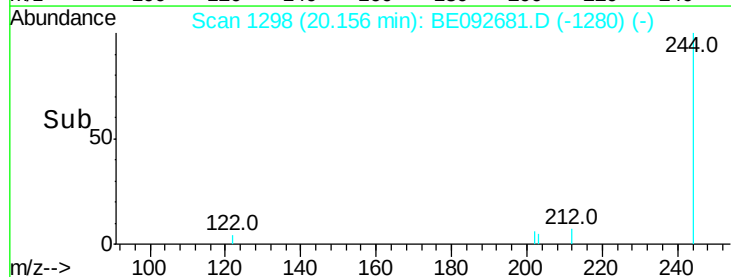
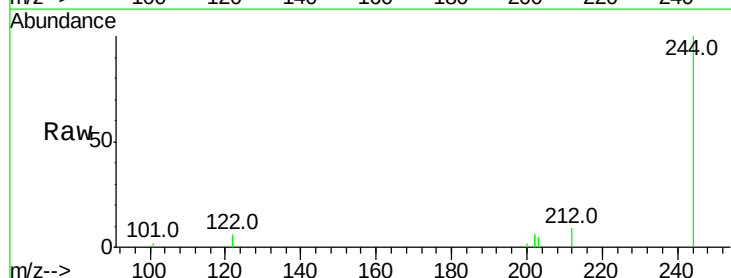
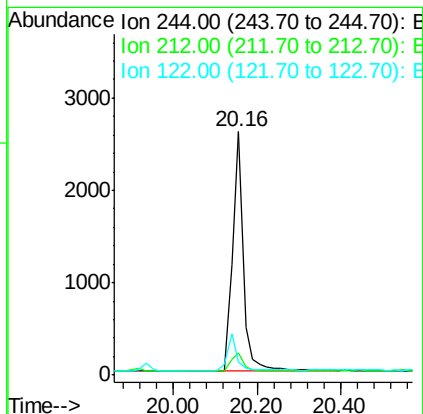
RT: 20.16 min Scan# 1298

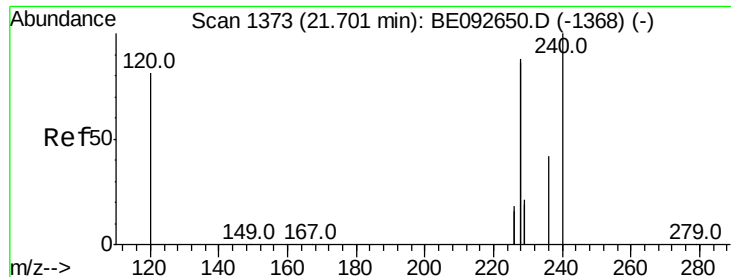
Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	6.7	10.1
122	5.6	3.6	5.4





#27

Benzo(a)anthracene

Concen: 0.71 ng

RT: 21.70 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

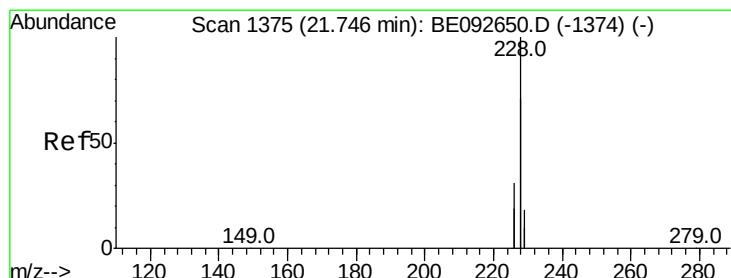
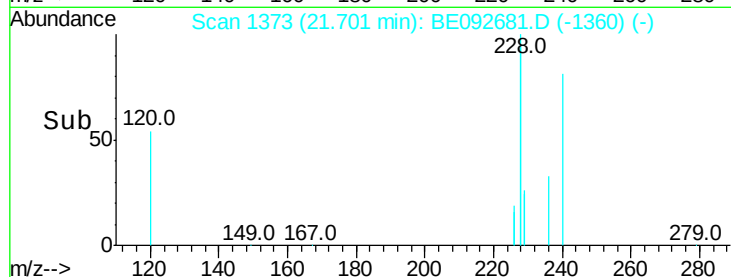
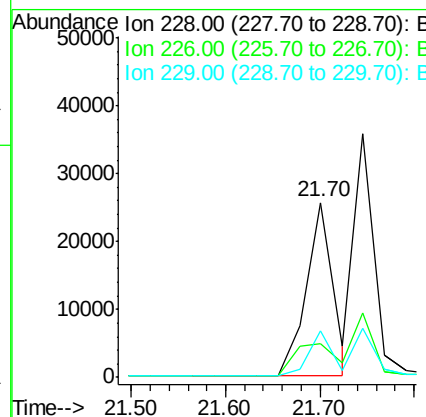
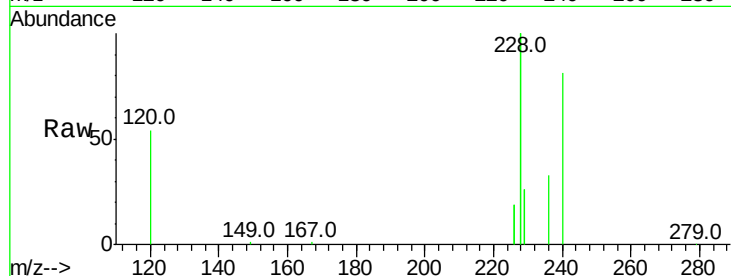
ClientSampleId :

RVE-10

Tot Ion:	228	Resp:	50759
Ion Ratio	Lower	Upper	
228	100		
226	19.3	23.6	35.4#
229	26.3	13.3	19.9#

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#28

Chrysene

Concen: 0.68 ng m

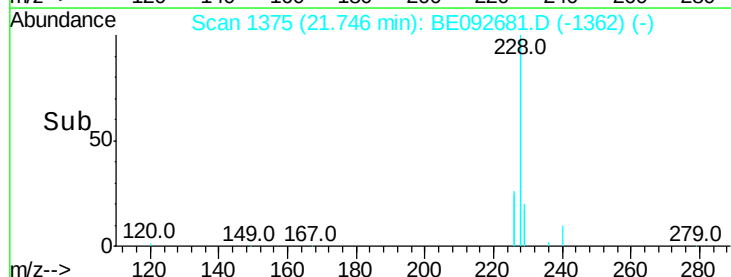
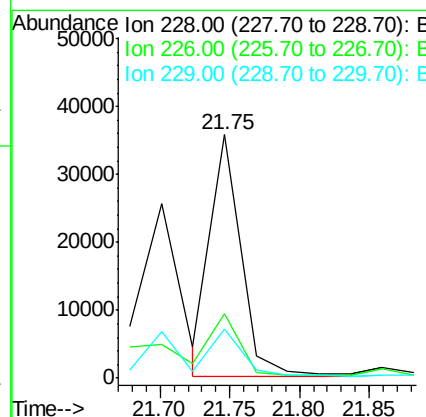
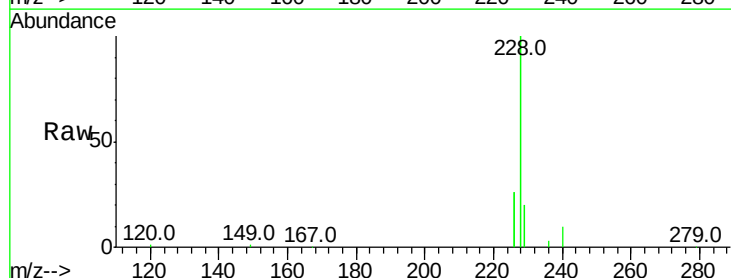
RT: 21.75 min Scan# 1375

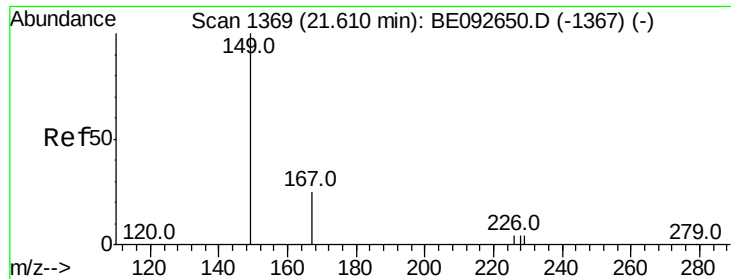
Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Tgt Ion:	228	Resp:	55021
Ion Ratio	Lower	Upper	
228	100		
226	26.4	36.3	54.5#
229	20.1	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.67 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

Instrument :

BNA_E

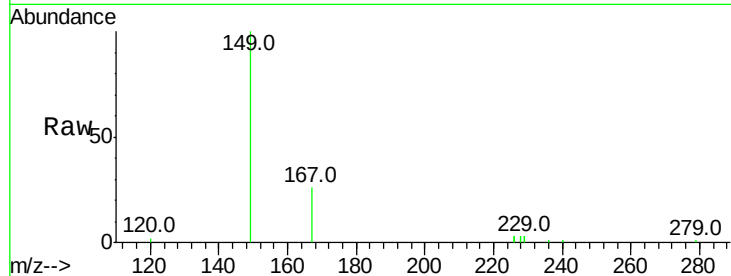
ClientSampled :

RVE-10

Tot Ion	Ratio	Lower	Upper
149	100		
167	24.0	16.0	24.0
279	0.0	16.0	24.0

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM

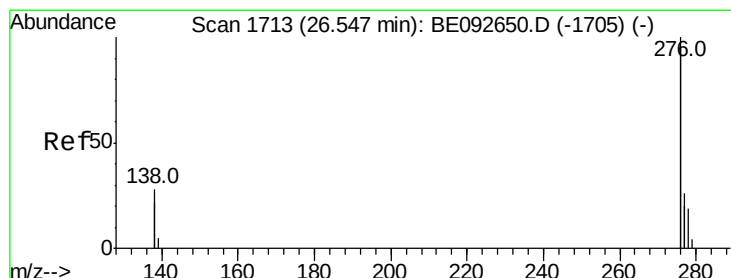
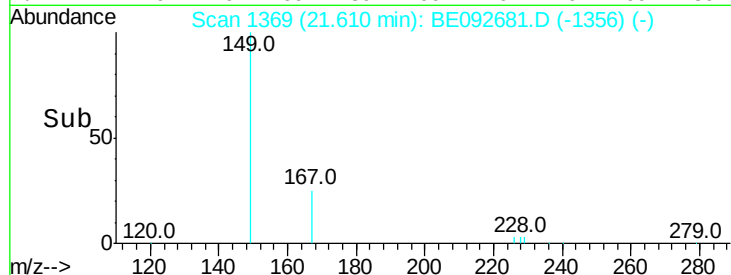
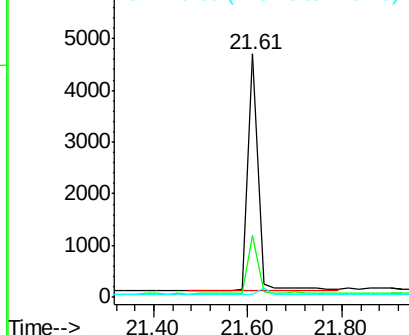


Abundance

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



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.57 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092681.D

Acq: 25 Jan 2017 00:47

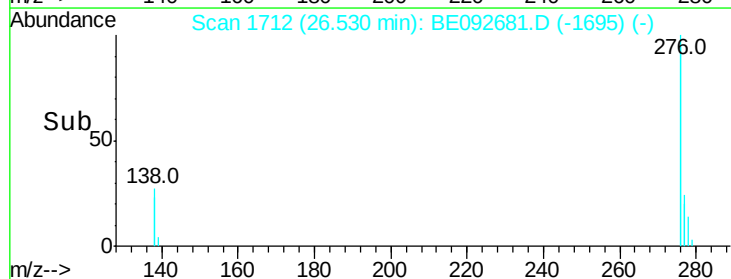
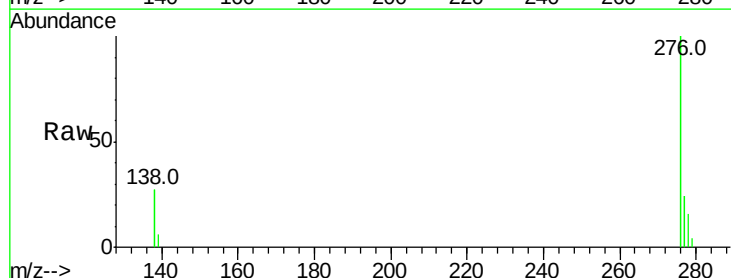
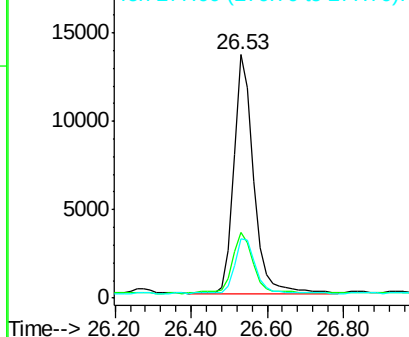
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.6	20.3	30.5
277	25.0	19.7	29.5

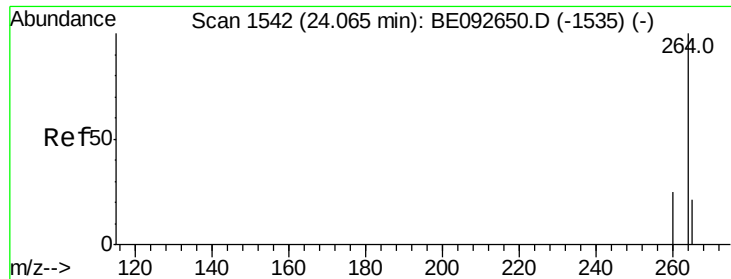
Abundance

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





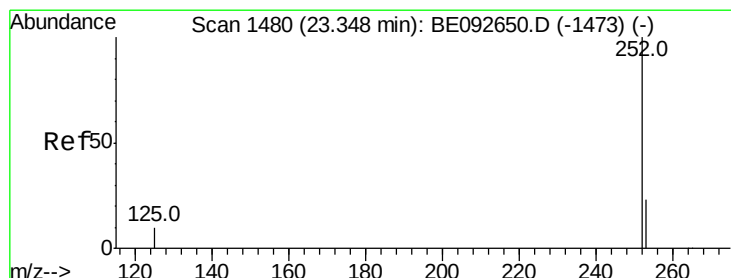
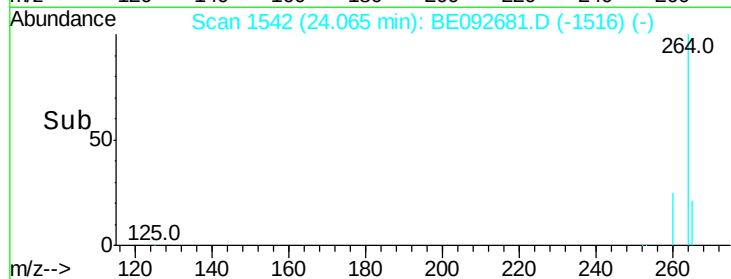
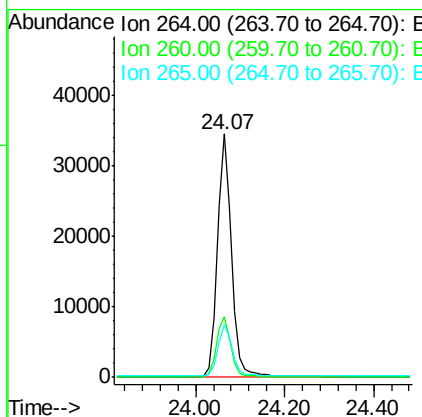
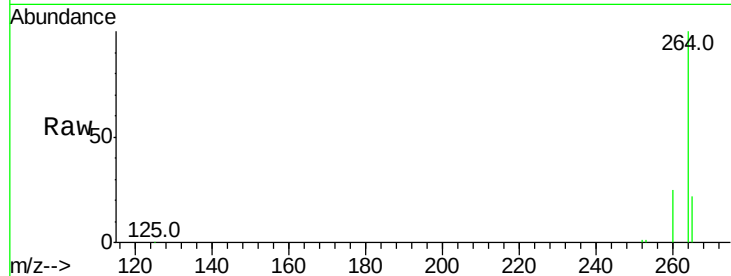
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.07 min Scan# 1542
Delta R.T. 0.00 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampleId :
RVE-10

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.1	30.1
265	21.7	17.9	26.9

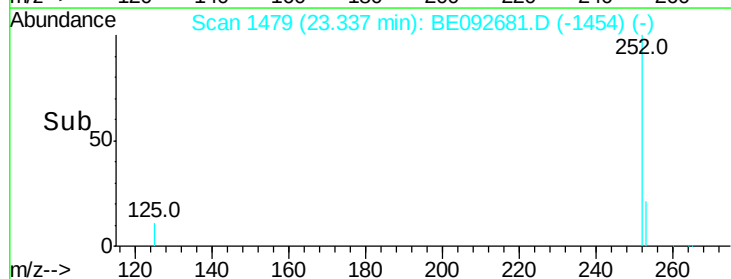
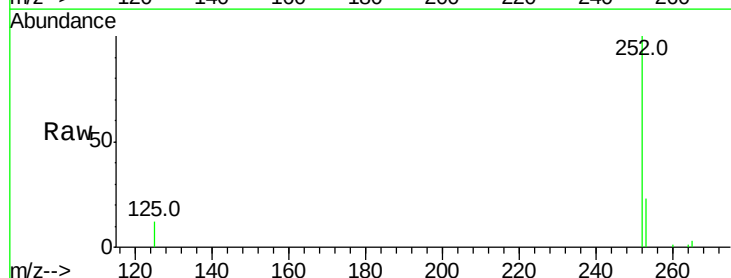
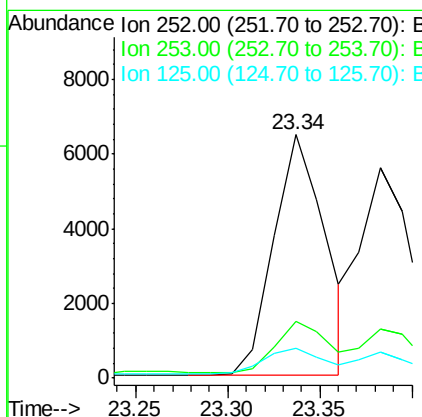
Manual Integrations
APPROVED

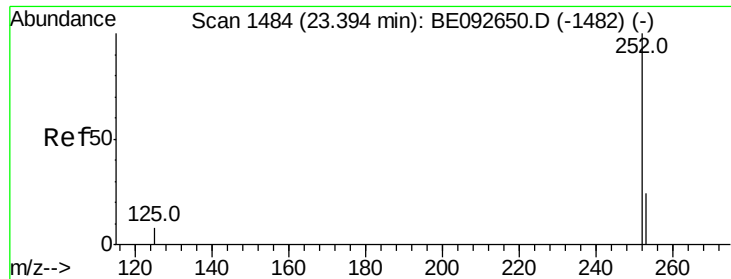
mohammad
1/25/2017 4:54:09 PM



#32
Benzo(b)fluoranthene
Concen: 0.68 ng
RT: 23.34 min Scan# 1479
Delta R.T. -0.01 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.7	28.1
125	12.4	10.5	15.7





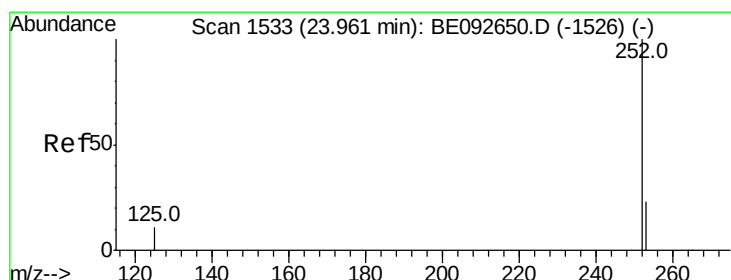
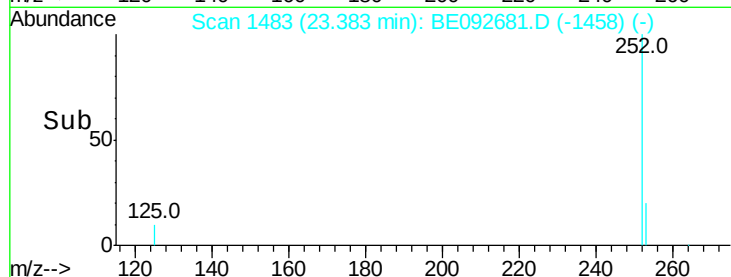
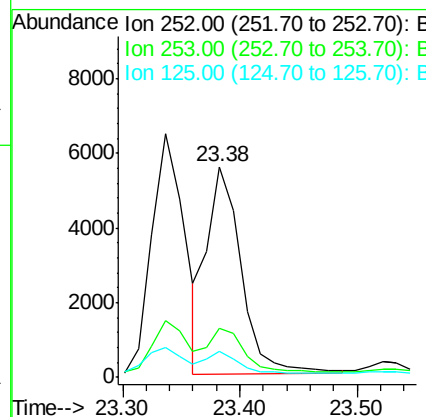
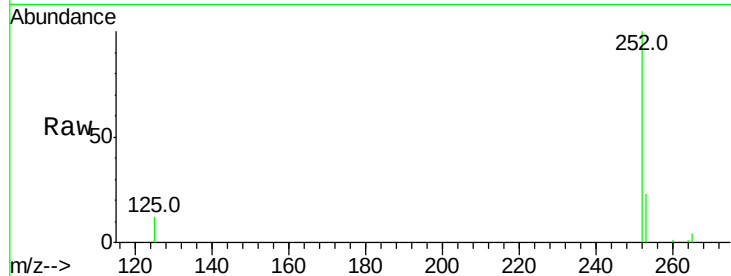
#33
Benzo(k)fluoranthene
Concen: 0.61 ng
RT: 23.38 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampleId :
RVE-10

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	20.3	30.5
125	12.1	9.6	14.4

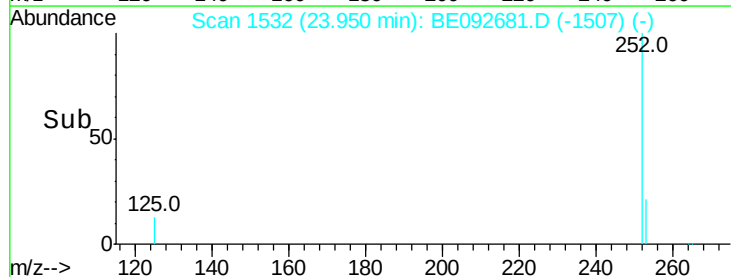
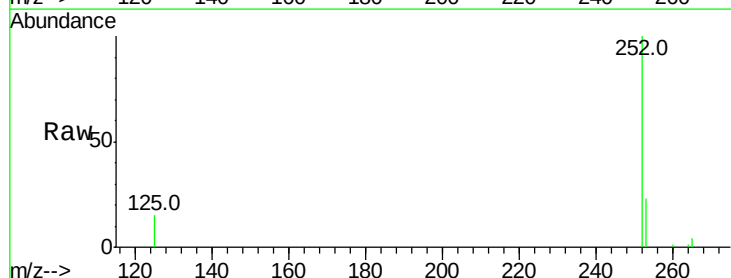
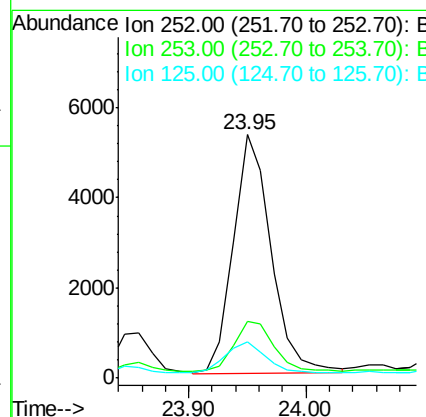
Manual Integrations
APPROVED

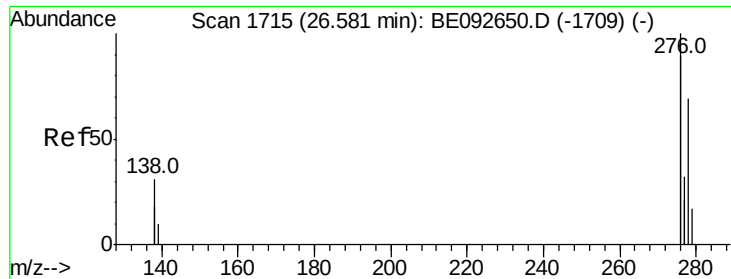
mohammad
1/25/2017 4:54:09 PM



#34
Benzo(a)pyrene
Concen: 0.69 ng
RT: 23.95 min Scan# 1532
Delta R.T. -0.01 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.0	28.6
125	14.9	11.8	17.8





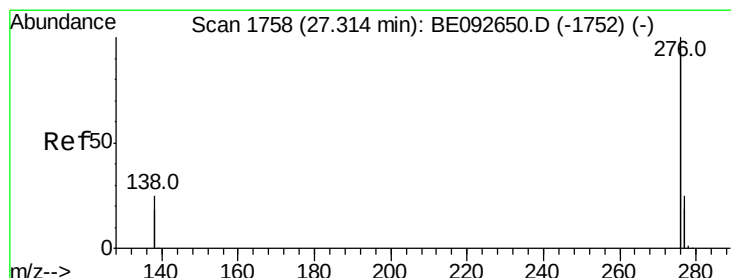
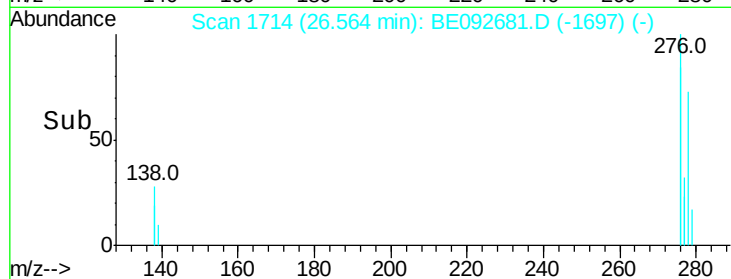
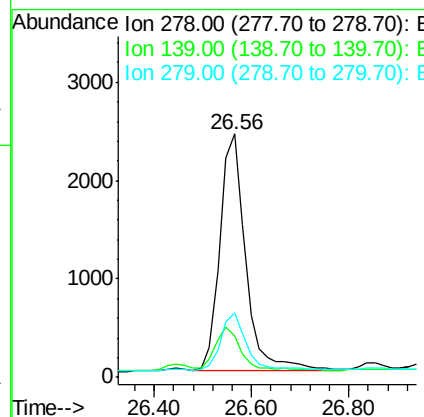
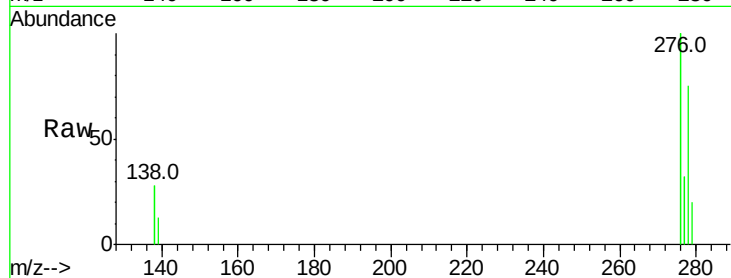
#35
Dibenzo(a,h)anthracene
Concen: 0.53 ng
RT: 26.56 min Scan# 1714
Delta R.T. -0.02 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Instrument :
BNA_E
ClientSampleId :
RVE-10

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.9	13.8	20.8
279	26.3	21.4	32.2

Manual Integrations
APPROVED

mohammad
1/25/2017 4:54:09 PM



#36
Benzo(g,h,i)perylene
Concen: 0.62 ng
RT: 27.30 min Scan# 1757
Delta R.T. -0.02 min
Lab File: BE092681.D
Acq: 25 Jan 2017 00:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	24.6	19.8	29.6

