

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022817\
 Data File : BE092767.D
 Acq On : 28 Feb 2017 17:40
 Operator : SJ/MA
 Sample : I2006-04MSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C19013051MSD

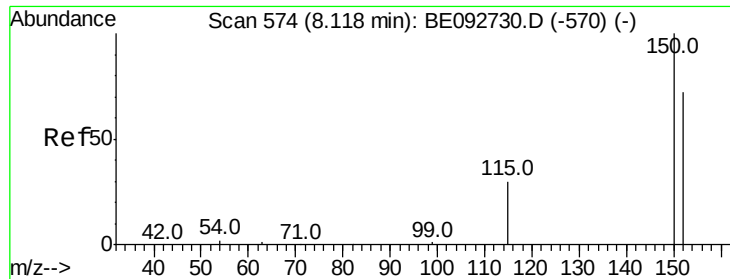
Manual Integrations
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 3/1/2017 4:05:24 PM

Quant Time: Mar 01 00:28:25 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE021517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 17:05:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	9308	5.00	ng	-0.02
7) Naphthalene-d8	10.88	136	41353	5.00	ng	-0.02
12) Acenaphthene-d10	14.75	164	25747	5.00	ng	-0.02
18) Phenanthrene-d10	17.51	188	59137	5.00	ng	0.00
24) Chrysene-d12	21.68	240	92216	5.00	ng	-0.02
31) Perylene-d12	24.01	264	77963	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.60	112	9527	5.26	ng	-0.03
5) Phenol-d6	7.27	99	8383	3.77	ng	-0.05
8) Nitrobenzene-d5	9.27	82	14756	5.28	ng	-0.05
13) 2,4,6-Tribromophenol	16.24	330	11476	21.00	ng	-0.05
14) 2-Fluorobiphenyl	13.36	172	36771	5.86	ng	-0.03
26) Terphenyl-d14	20.11	244	67551	5.74	ng	-0.03
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.33	88	1929	1.64	ng	# 77
3) n-Nitrosodimethylamine	3.69	42	3028	1.90	ng	# 93
6) bis(2-Chloroethyl)ether	7.52	93	13039	5.30	ng	# 27
9) Naphthalene	10.91	128	59623	6.66	ng	97
10) Hexachlorobutadiene	11.20	225	6149	4.67	ng	100
11) 2-Methylnaphthalene	12.54	142	39904	7.10	ng	98
15) Acenaphthylene	14.46	152	233167	6.00	ng	95
16) Acenaphthene	14.81	154	42369	7.50	ng	93
17) Fluorene	15.80	166	63558	8.77	ng	98
19) Hexachlorobenzene	16.82	284	13836	6.06	ng	# 66
20) Pentachlorophenol	17.17	266	17144	24.98	ng	# 86
21) Phenanthrene	17.53	178	91965m	6.54	ng	
22) Anthracene	17.63	178	94598	7.31	ng	97
23) Fluoranthene	19.54	202	441976	7.33	ng	99
25) Pyrene	19.90	202	477619	5.44	ng	99
27) Benzo(a)anthracene	21.66	228	536770m	6.00	ng	
28) Chrysene	21.70	228	436963m	4.12	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	65253	5.28	ng	# 69
30) Indeno(1,2,3-cd)pyrene	26.45	276	505218	4.59	ng	97
32) Benzo(b)fluoranthene	23.29	252	123747	6.03	ng	# 97
33) Benzo(k)fluoranthene	23.34	252	113482	5.21	ng	95
34) Benzo(a)pyrene	23.90	252	114994	5.74	ng	# 95
35) Dibenzo(a,h)anthracene	26.46	278	105853	5.37	ng	95
36) Benzo(g,h,i)perylene	27.20	276	433083	5.30	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.10 min Scan# 573

Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Instrument :

BNA_E

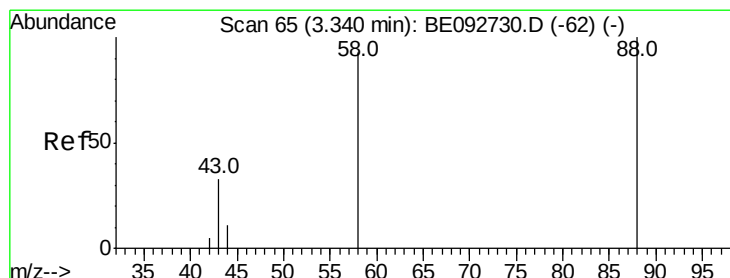
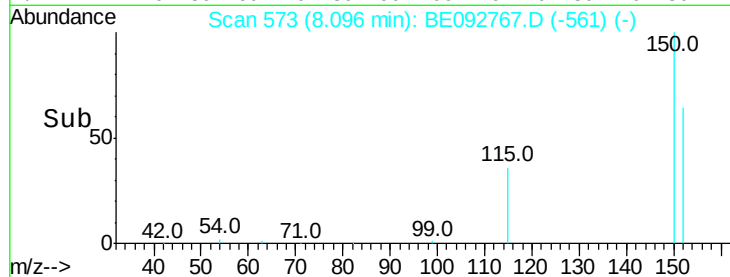
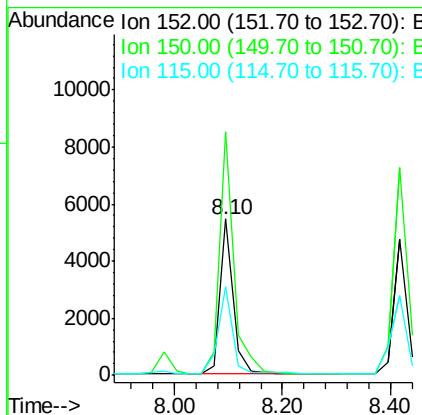
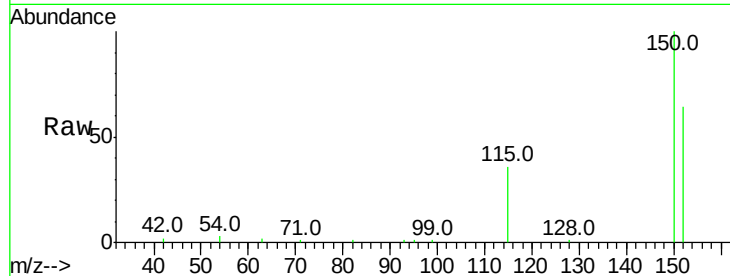
ClientSampleId :

C19013051MSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	106.0	159.0
115	56.6	31.2	46.8

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#2

1,4-Dioxane

Concen: 1.64 ng

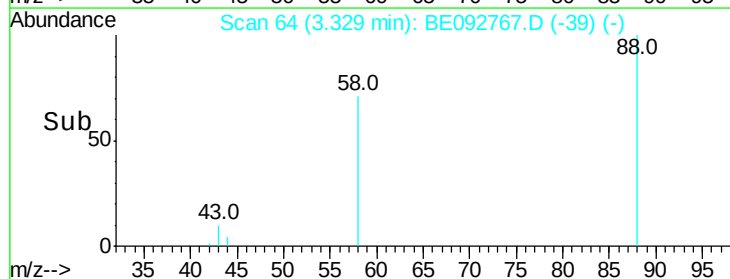
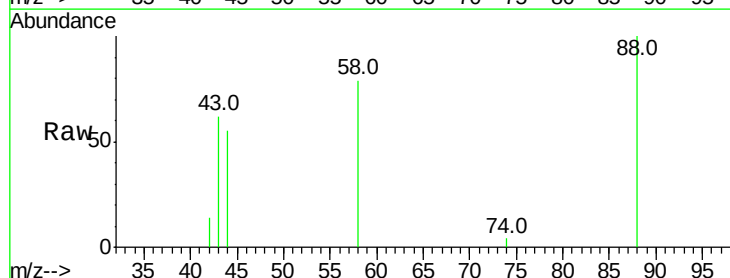
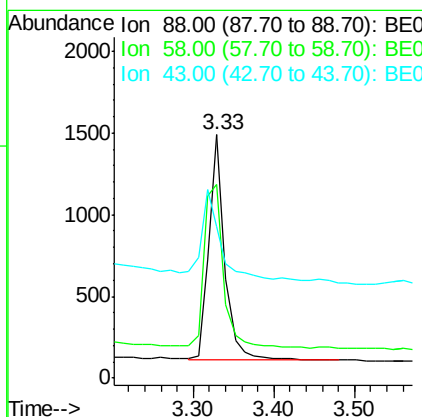
RT: 3.33 min Scan# 64

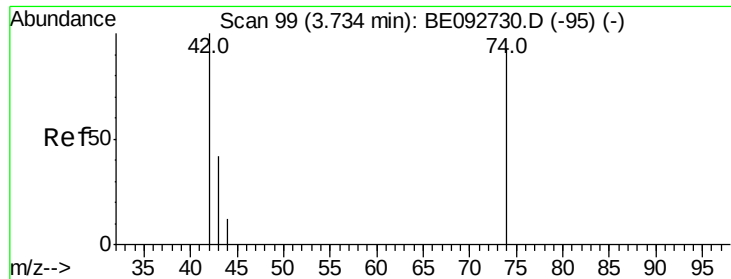
Delta R.T. -0.01 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	88.6	63.6	95.4
43	64.1	28.0	42.0





#3

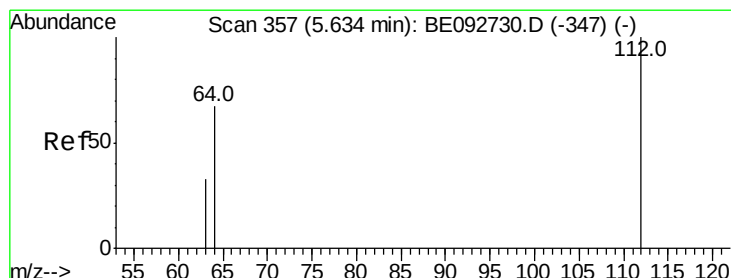
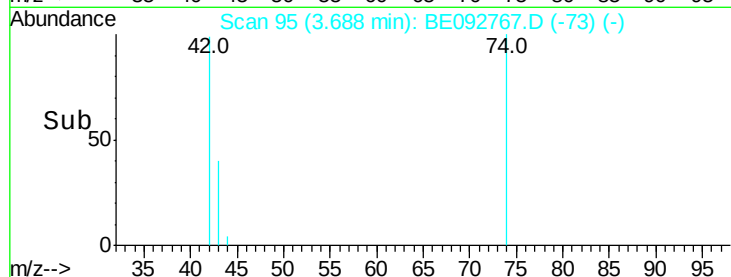
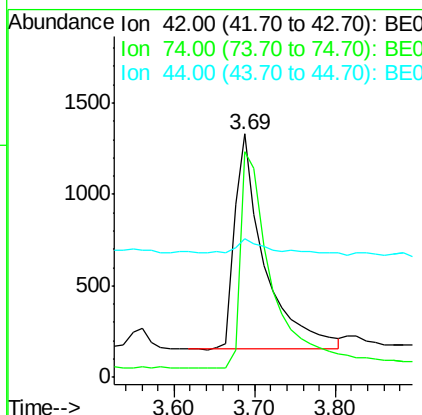
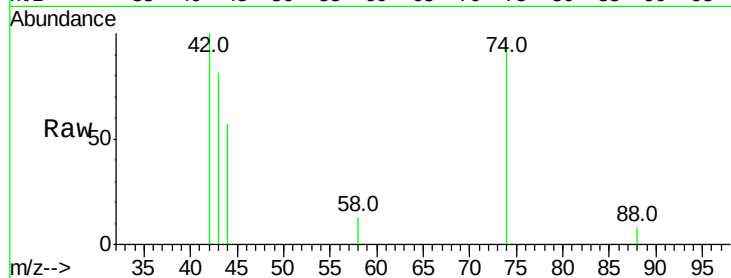
n-Nitrosodimethylamine
Concen: 1.90 ng
RT: 3.69 min Scan# 95
Delta R.T. -0.05 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
42	100		
74	115.2	86.0	129.0
44	9.4	5.1	7.7#

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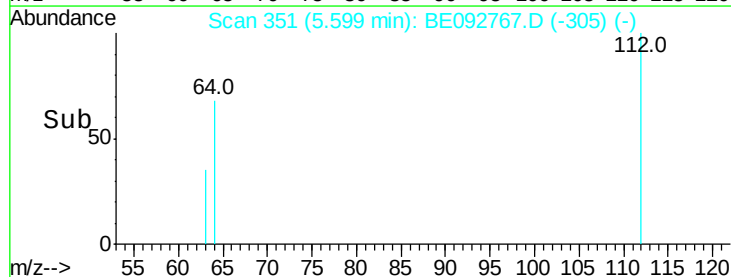
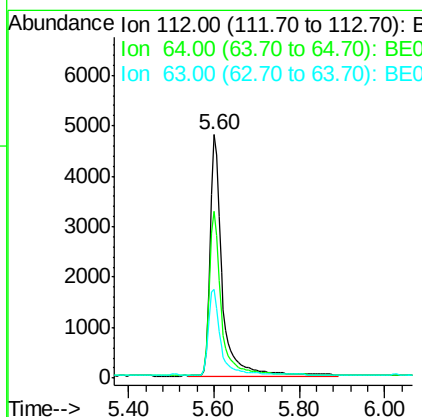
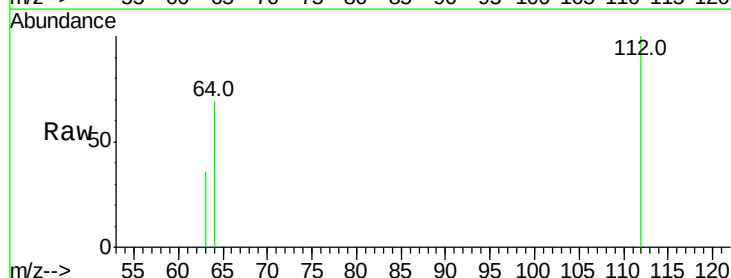
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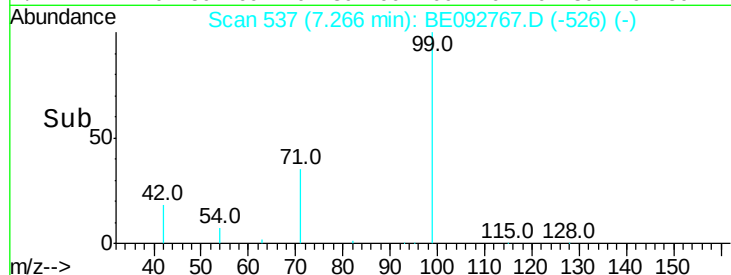
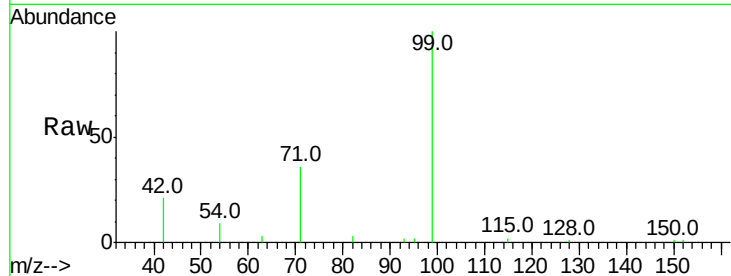
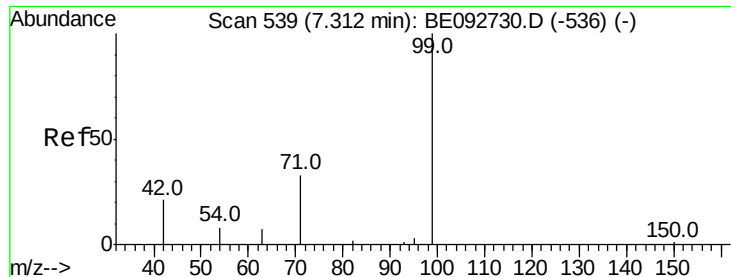


#4

2-Fluorophenol
Concen: 5.26 ng
RT: 5.60 min Scan# 351
Delta R.T. -0.03 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.5	80.3
63	35.8	27.9	41.9





#5

Phenol-d6

Concen: 3.77 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.05 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tot Ion:	99	Resp:	8383
Ion	Ratio	Lower	Upper
99	100		
42	21.6	16.0	24.0
71	34.5	30.6	45.8

Instrument :

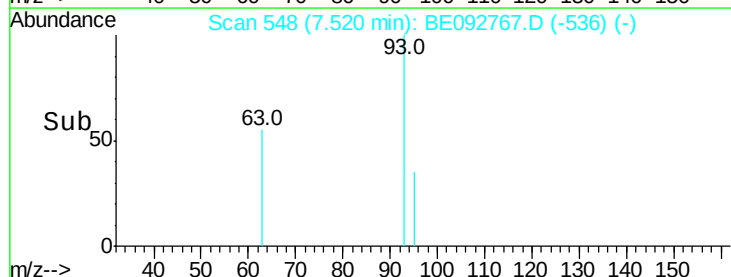
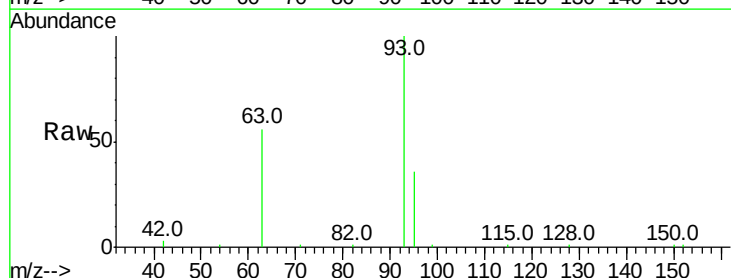
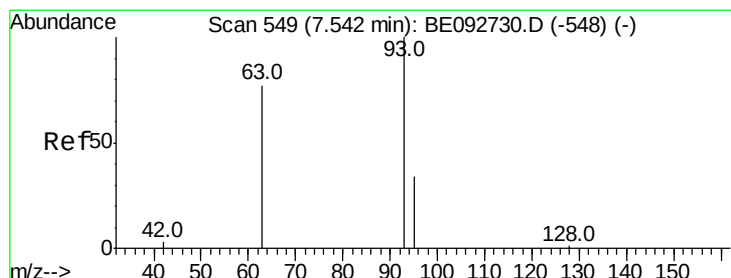
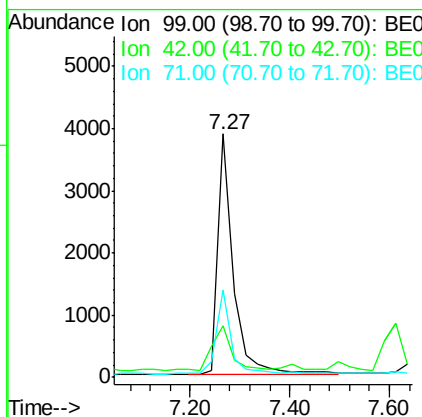
BNA_E

ClientSampleId :

C19013051MSD

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#6

bis(2-Chloroethyl)ether

Concen: 5.30 ng

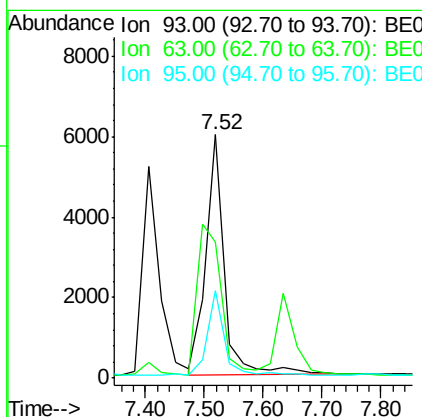
RT: 7.52 min Scan# 548

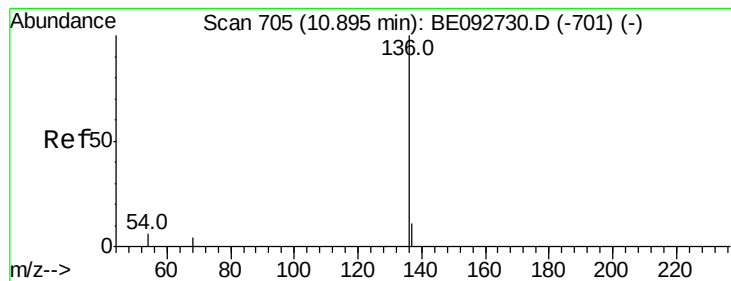
Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tgt Ion:	93	Resp:	13039
Ion	Ratio	Lower	Upper
93	100		
63	0.0	71.6	107.4#
95	33.0	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.88 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Instrument :

BNA_E

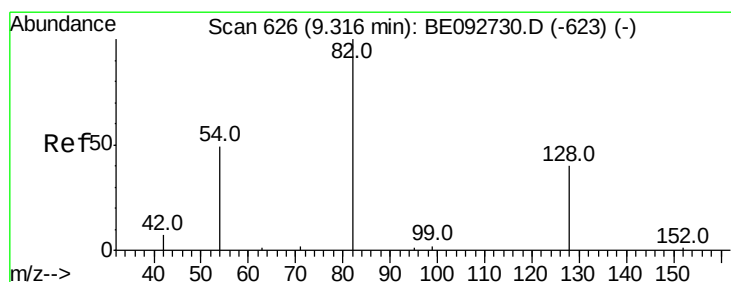
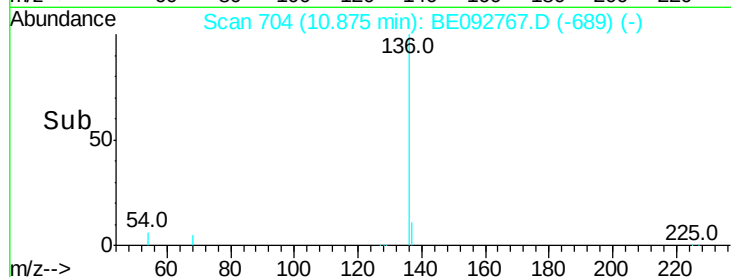
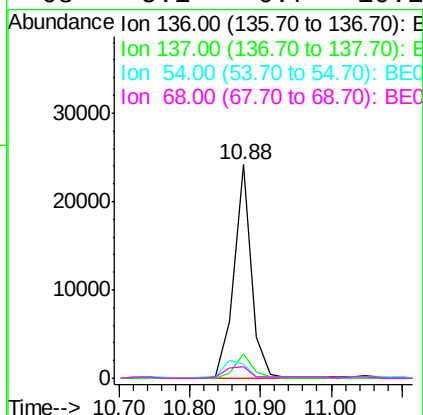
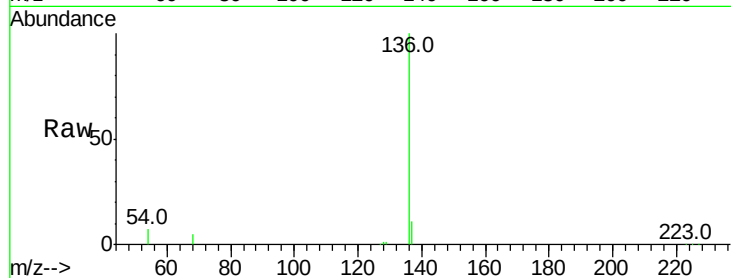
ClientSampleId :

C19013051MSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.5	8.2	12.4	
54	6.5	9.6	14.4	
68	5.1	6.7	10.1	

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#8

Nitrobenzene-d5

Concen: 5.28 ng

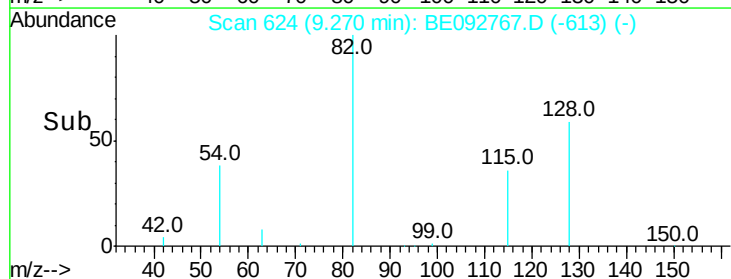
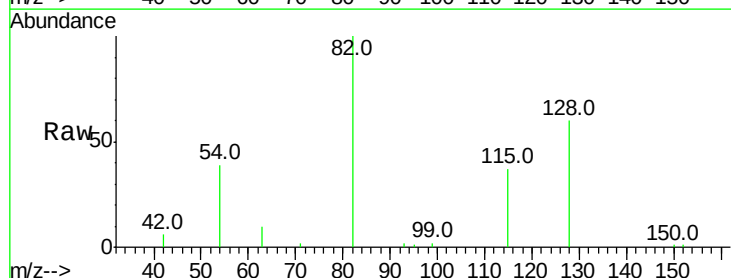
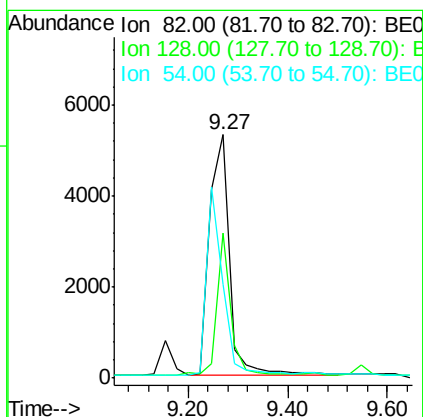
RT: 9.27 min Scan# 624

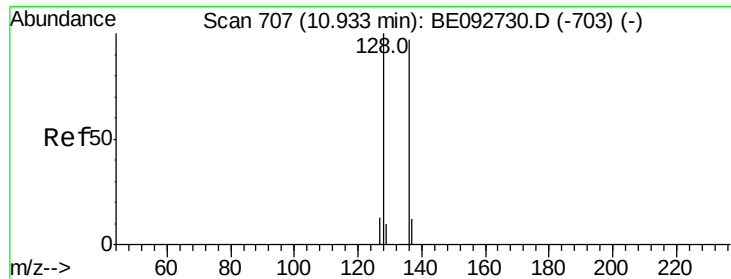
Delta R.T. -0.05 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	59.7	39.0	58.4	
54	38.6	44.8	67.2	





#9

Naphthalene

Concen: 6.66 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Instrument :

BNA_E

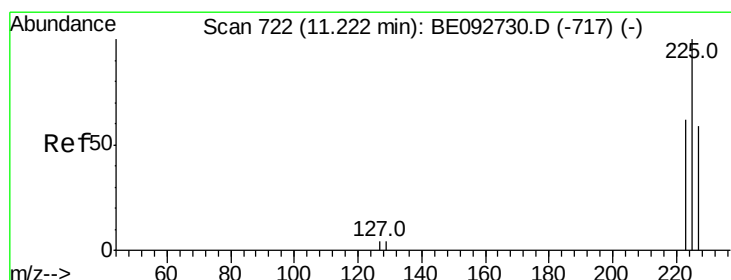
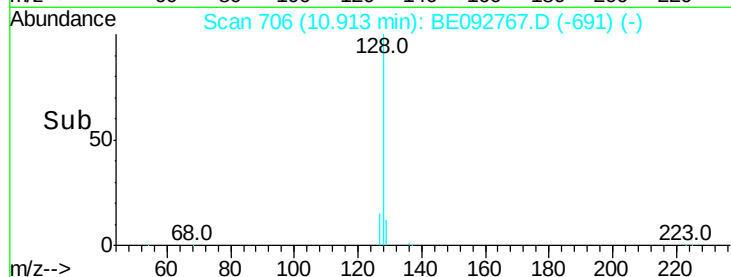
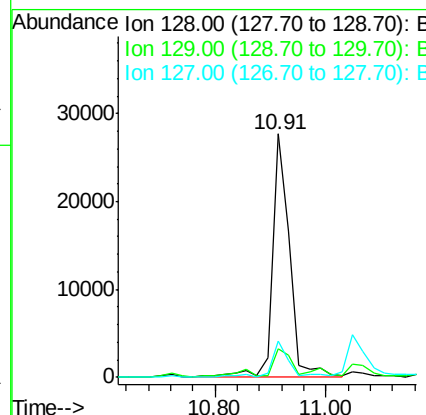
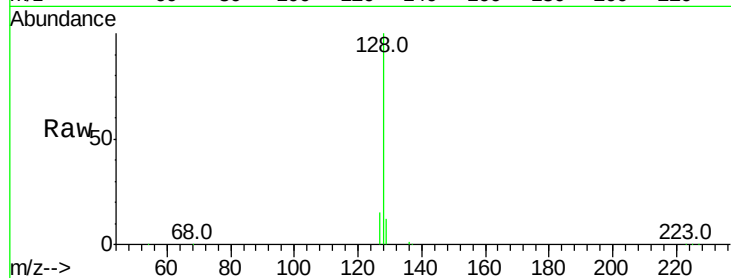
ClientSampleId :

C19013051MSD

Tot Ion:	128	Resp:	59623
Ion Ratio	Lower	Upper	
128	100		
129	11.7	11.2	16.8
127	14.7	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 4.67 ng

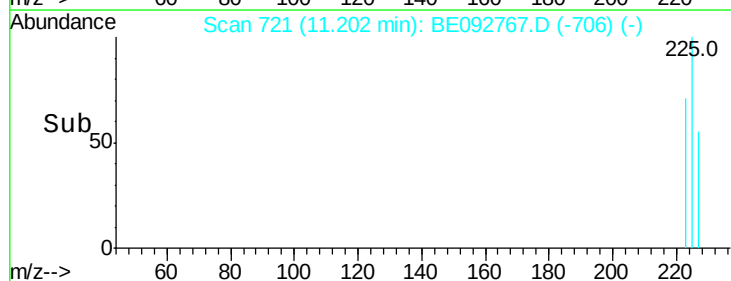
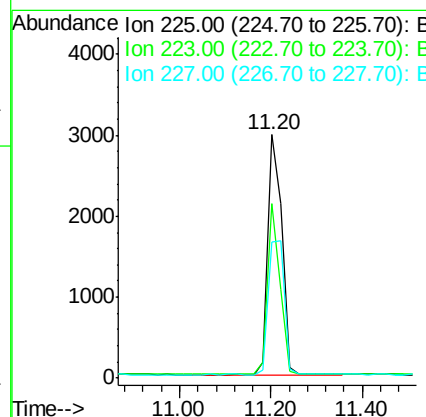
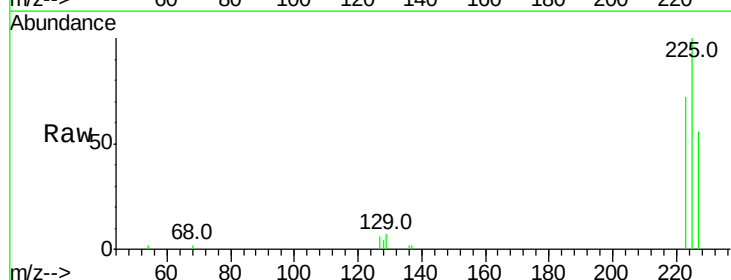
RT: 11.20 min Scan# 721

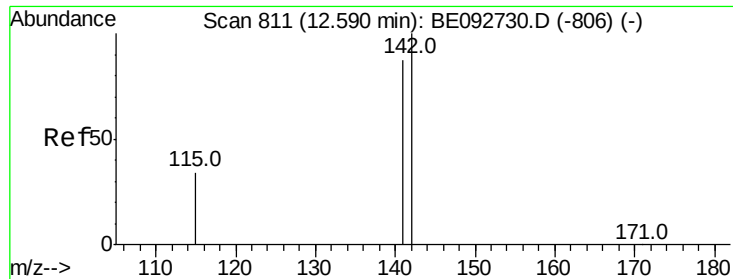
Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tgt Ion:	225	Resp:	6149
Ion Ratio	Lower	Upper	
225	100		
223	63.2	50.6	76.0
227	64.6	51.4	77.0





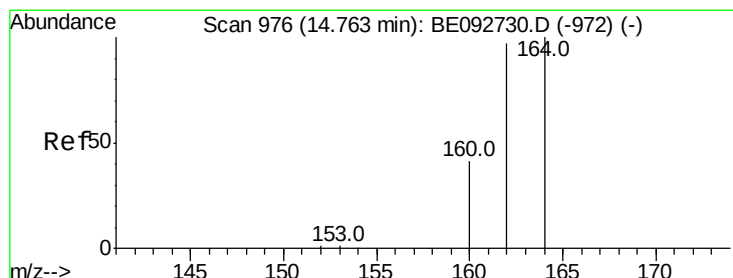
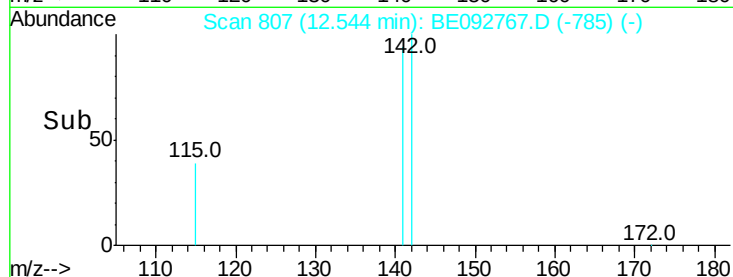
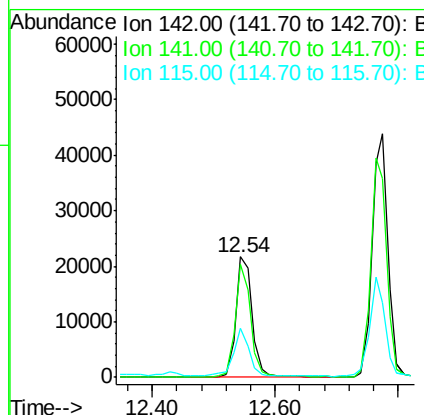
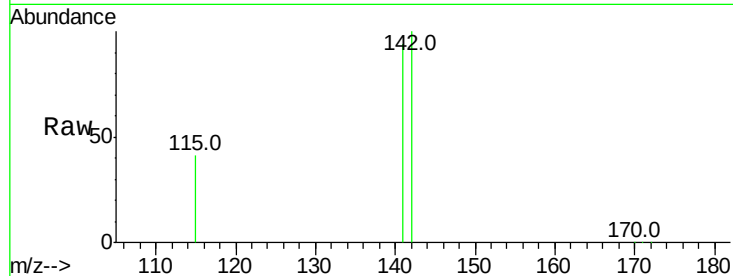
#11
2-Methylnaphthalene
Concen: 7.10 ng
RT: 12.54 min Scan# 807
Delta R.T. -0.05 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion:142 Resp: 39904
Ion Ratio Lower Upper
142 100
141 94.2 73.7 110.5
115 41.1 34.0 51.0

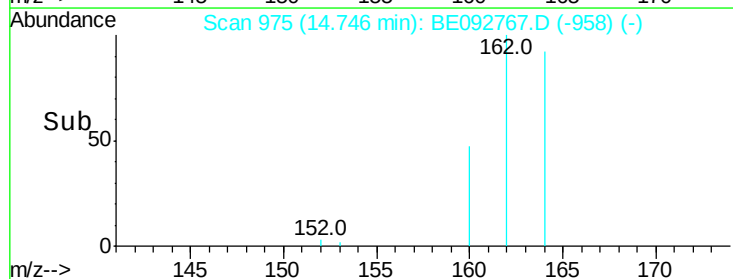
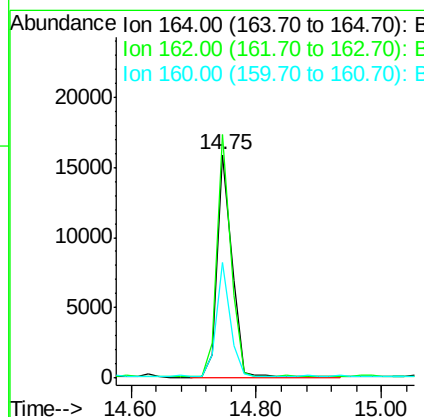
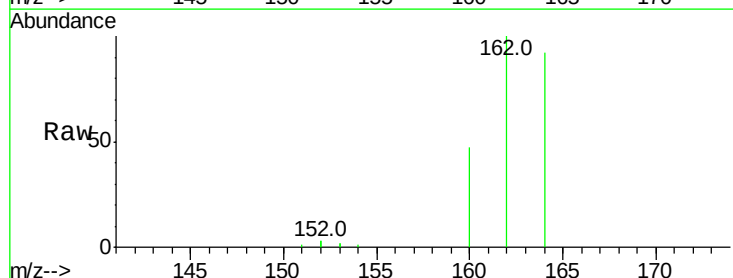
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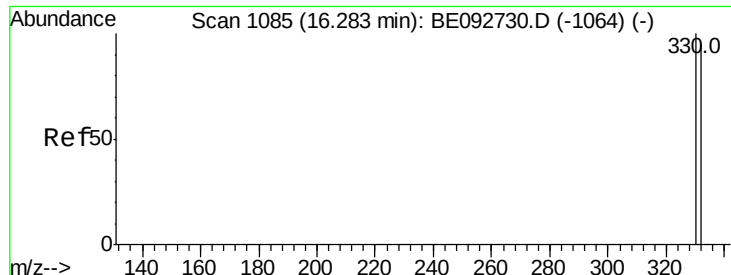
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.75 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion:164 Resp: 25747
Ion Ratio Lower Upper
164 100
162 108.9 71.4 107.0#
160 51.6 27.4 41.2#





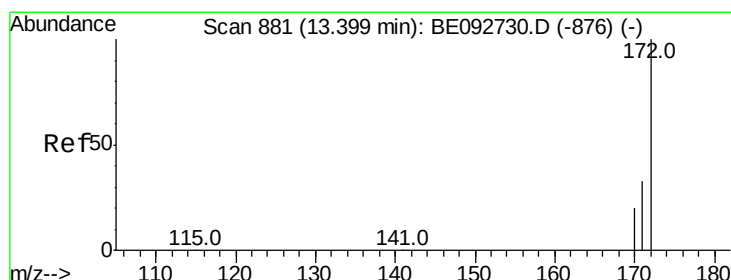
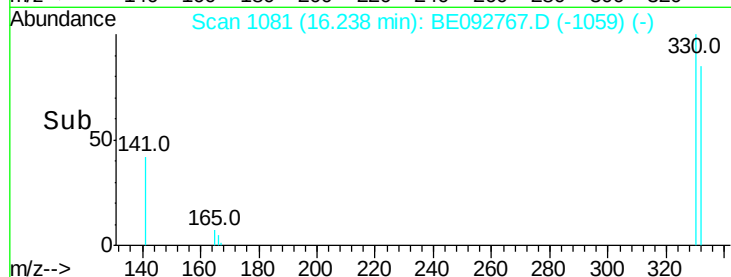
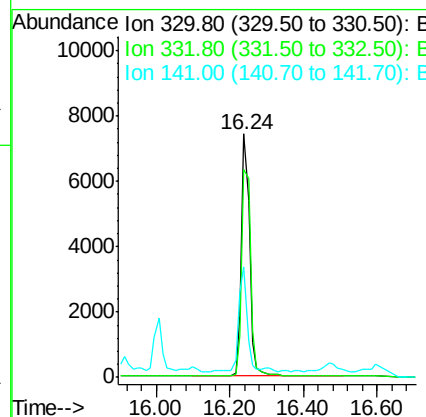
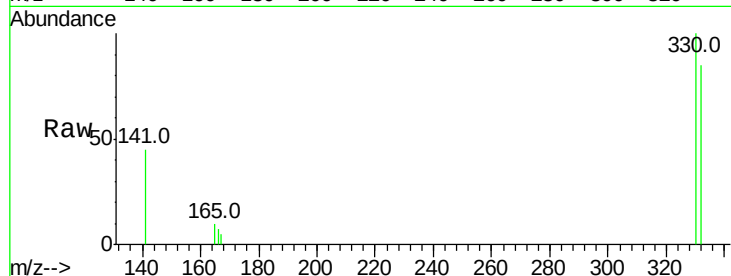
#13
 2,4,6-Tribromophenol
 Concen: 21.00 ng
 RT: 16.24 min Scan# 1081
 Delta R.T. -0.05 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Instrument :
 BNA_E
 ClientSampleId :
 C19013051MSD

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.4	113.0
141	46.6	31.0	46.6#

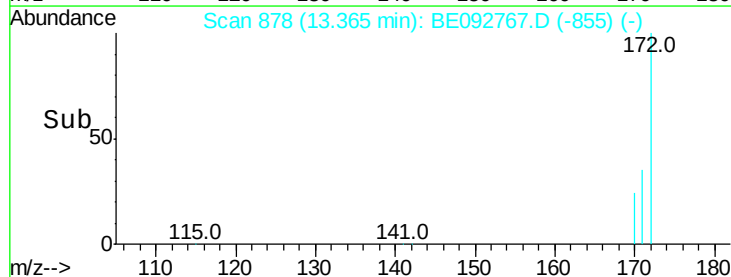
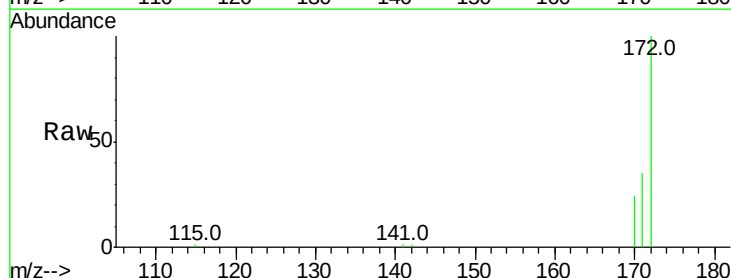
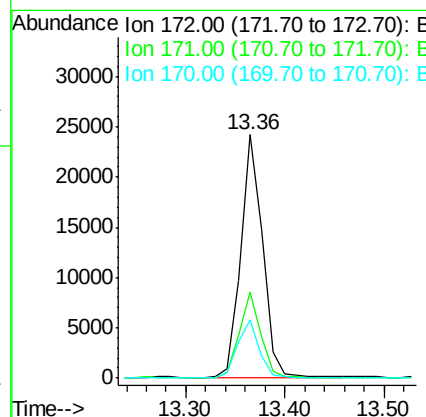
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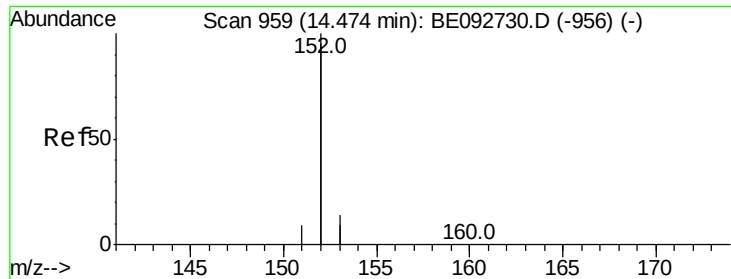
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#14
 2-Fluorobiphenyl
 Concen: 5.86 ng
 RT: 13.36 min Scan# 878
 Delta R.T. -0.03 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.1	45.1
170	23.8	21.8	32.6





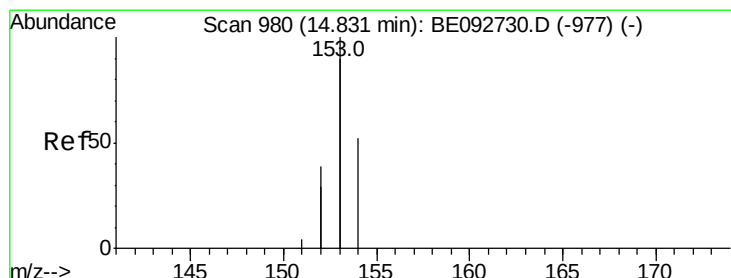
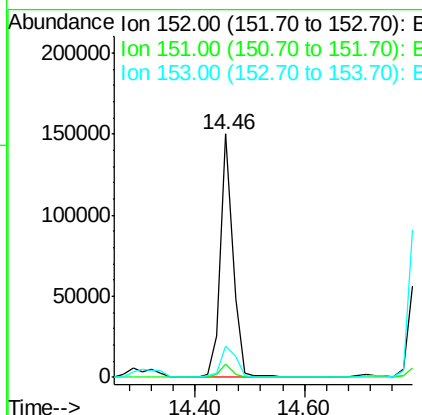
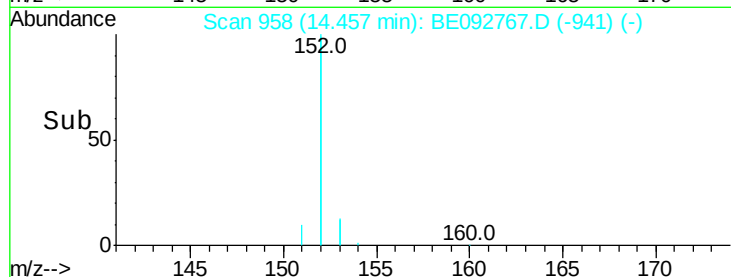
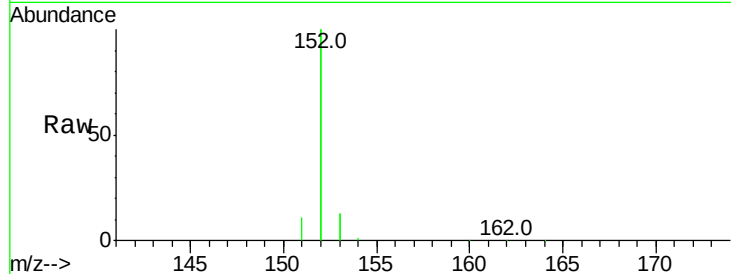
#15
Acenaphthylene
Concen: 6.00 ng
RT: 14.46 min Scan# 958
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.1	3.9	5.9
153	15.6	10.4	15.6

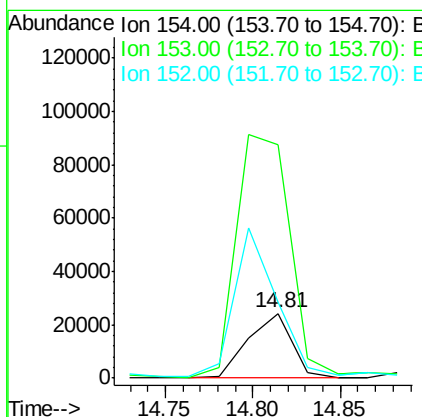
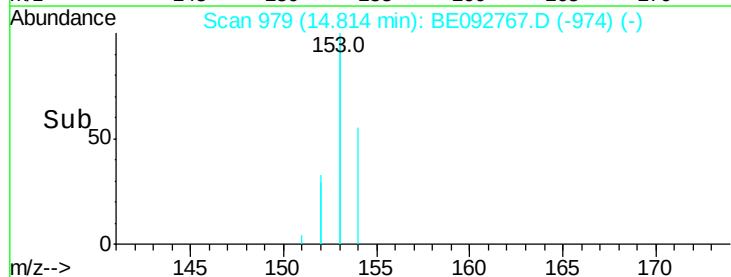
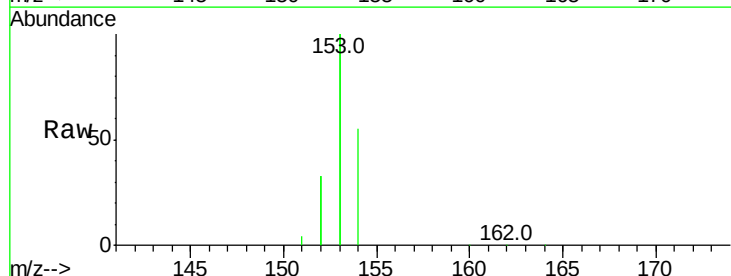
Manual Integrations
APPROVED

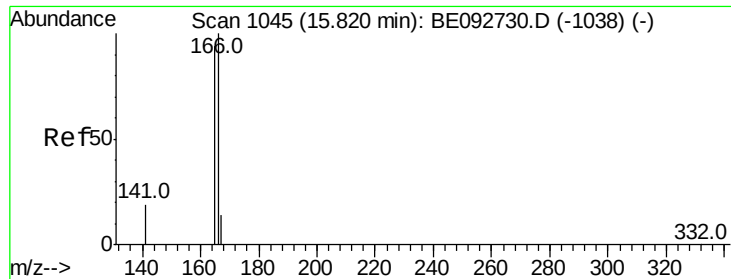
mohammad
3/1/2017 4:05:24 PM



#16
Acenaphthene
Concen: 7.50 ng
RT: 14.81 min Scan# 979
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
154	100		
153	458.3	350.8	526.2
152	224.5	171.1	256.7





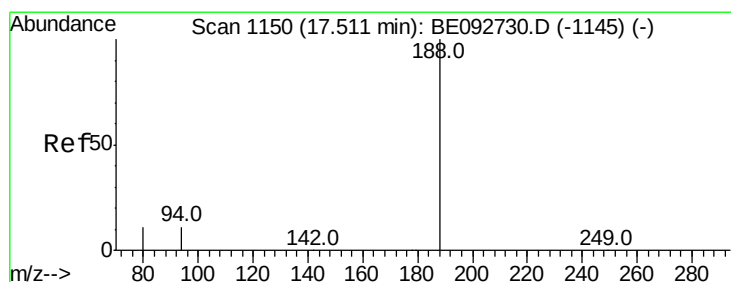
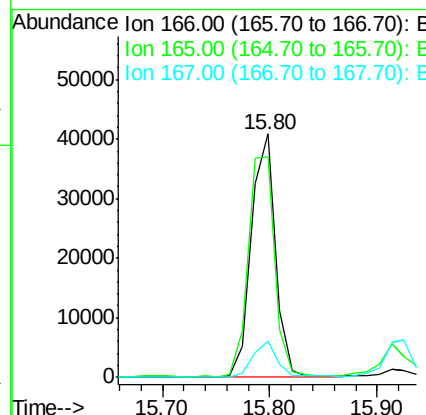
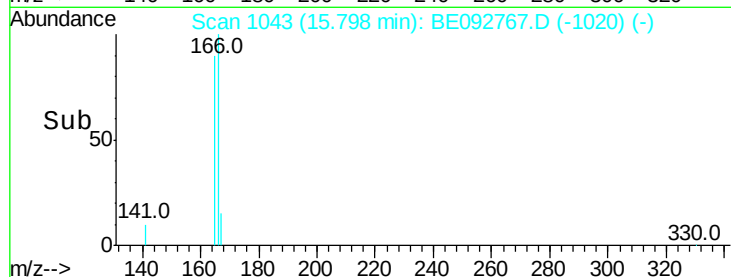
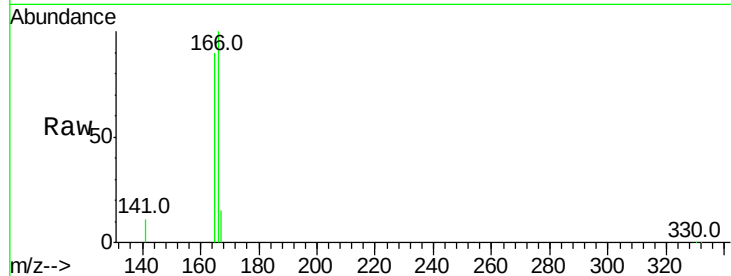
#17
Fluorene
Concen: 8.77 ng
RT: 15.80 min Scan# 1043
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.4	78.2	117.4
167	14.5	11.0	16.4

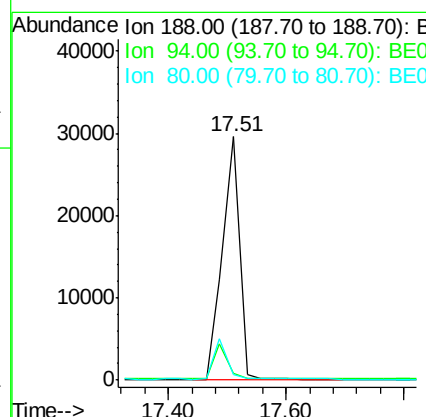
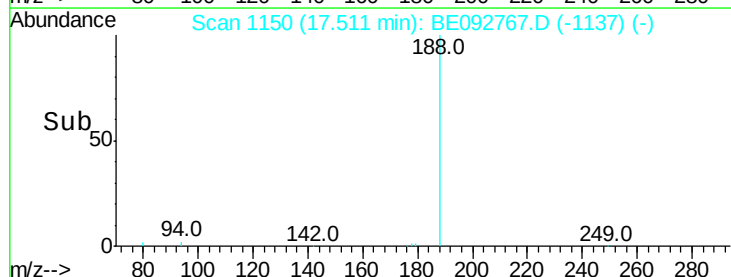
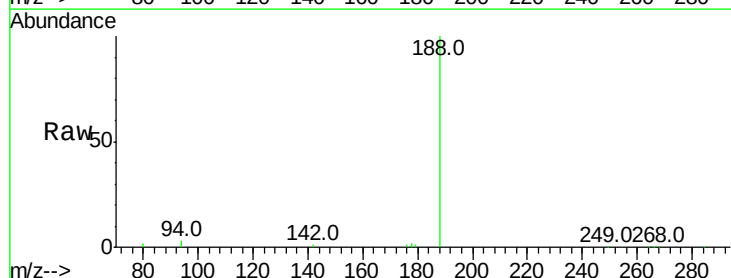
Manual Integrations
APPROVED

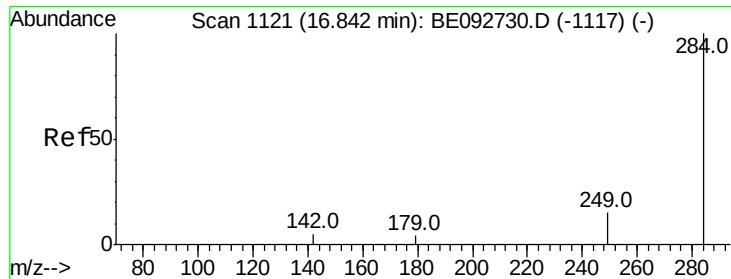
mohammad
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.51 min Scan# 1150
Delta R.T. 0.00 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	2.9	3.2	4.8#
80	2.2	2.6	3.8#





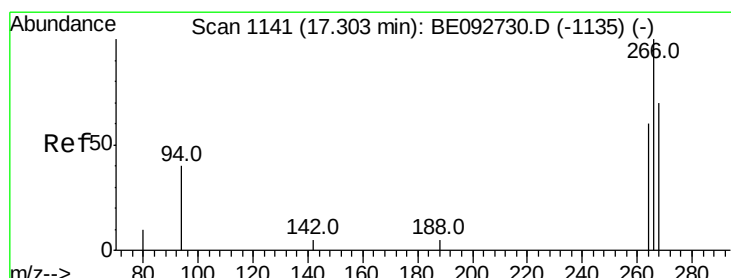
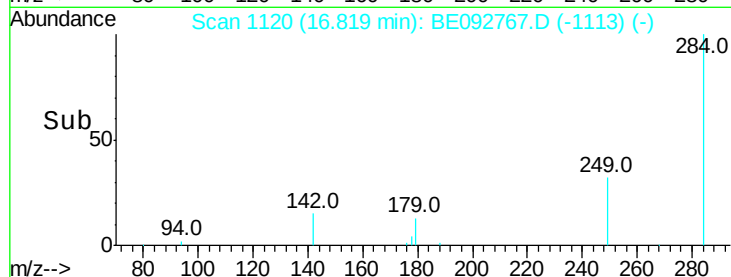
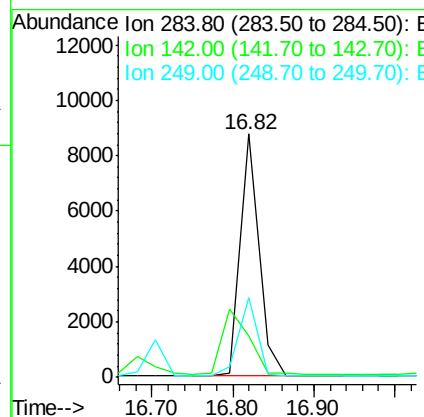
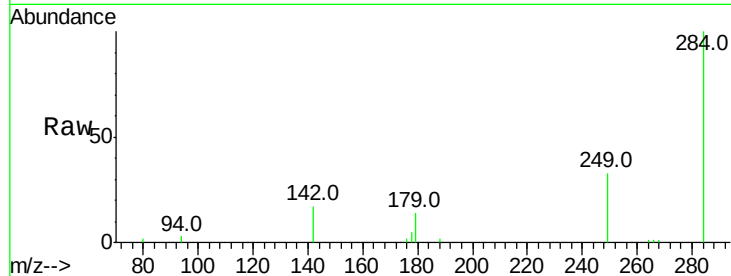
#19
Hexachlorobenzene
Concen: 6.06 ng
RT: 16.82 min Scan# 1120
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	32.1	27.9	41.9

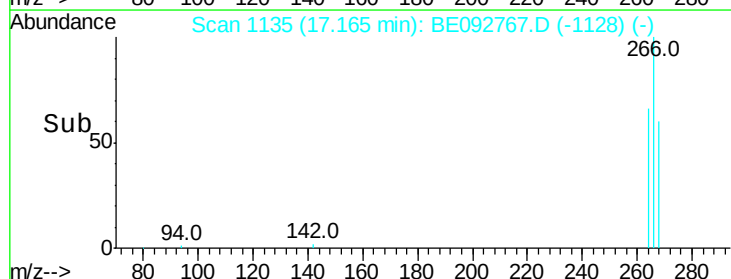
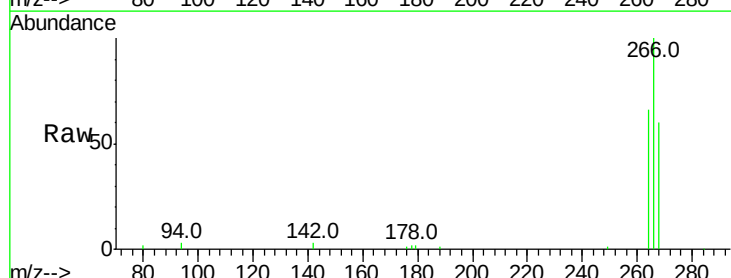
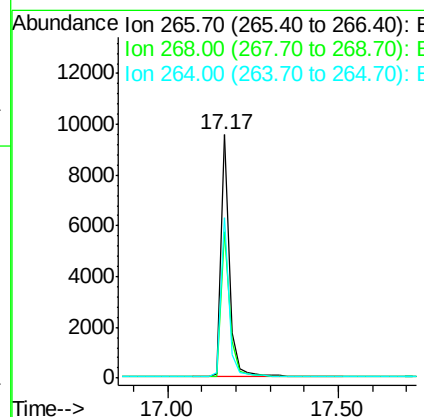
Manual Integrations
APPROVED

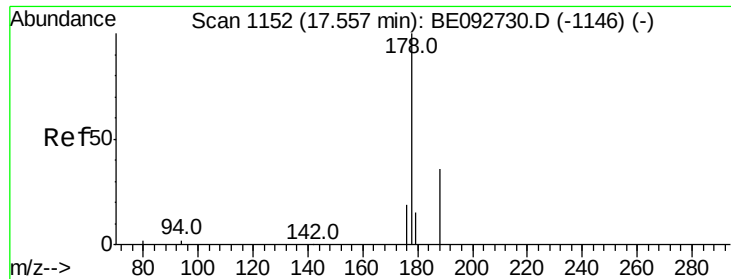
mohammad
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#20
Pentachlorophenol
Concen: 24.98 ng
RT: 17.17 min Scan# 1135
Delta R.T. -0.14 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
266	100		
268	59.9	62.5	93.7#
264	66.0	57.2	85.8





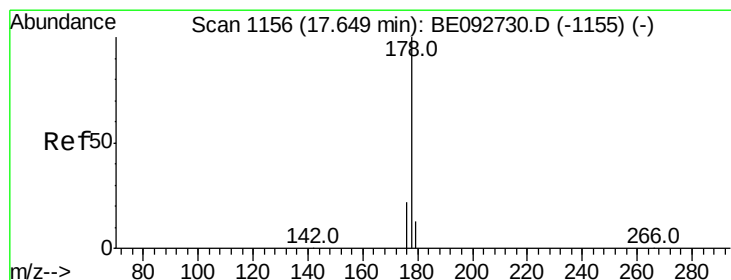
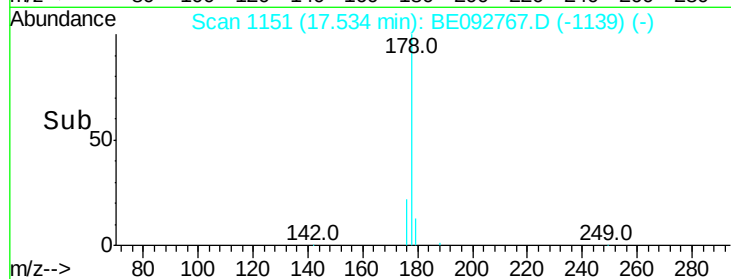
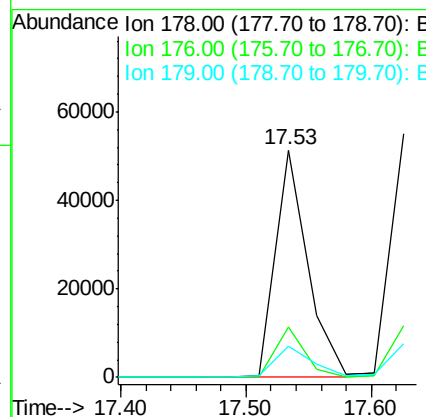
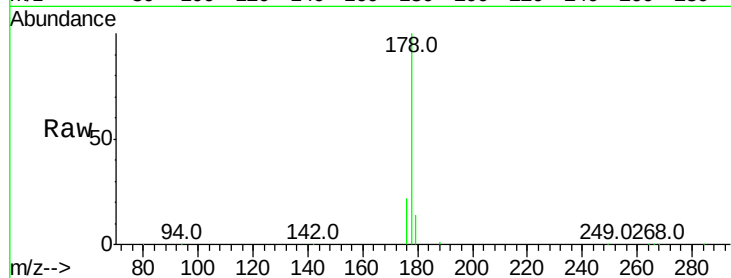
#21
Phenanthrene
Concen: 6.54 ng m
RT: 17.53 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	16.9	16.0	24.0

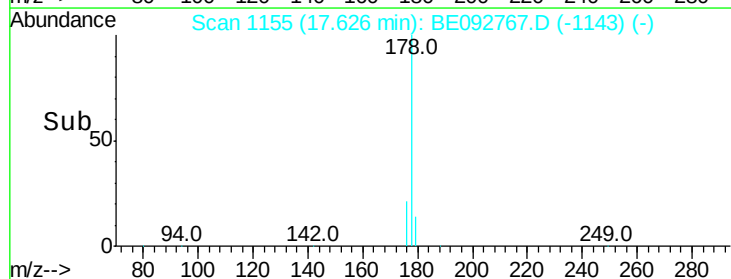
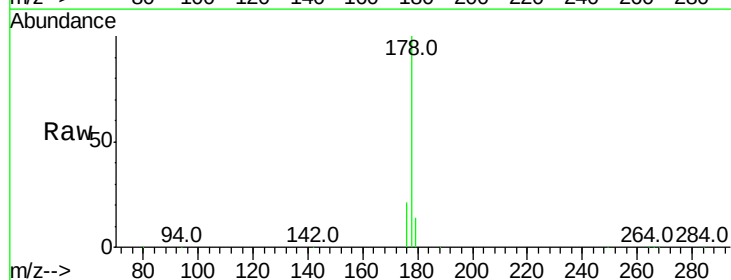
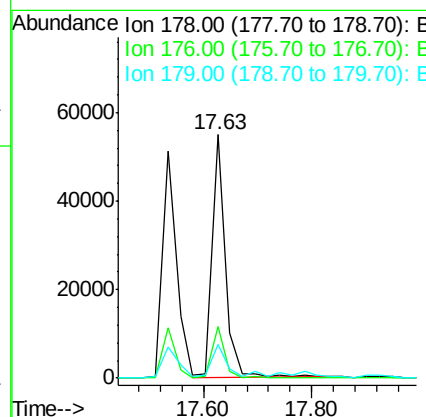
Manual Integrations
APPROVED

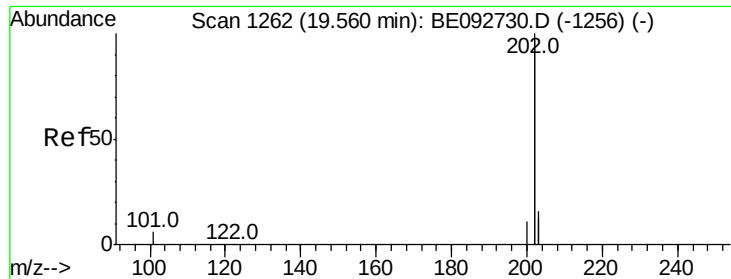
mohammad
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#22
Anthracene
Concen: 7.31 ng
RT: 17.63 min Scan# 1155
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	16.4	12.2	18.2





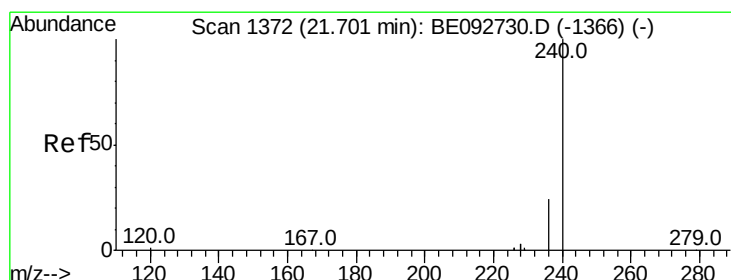
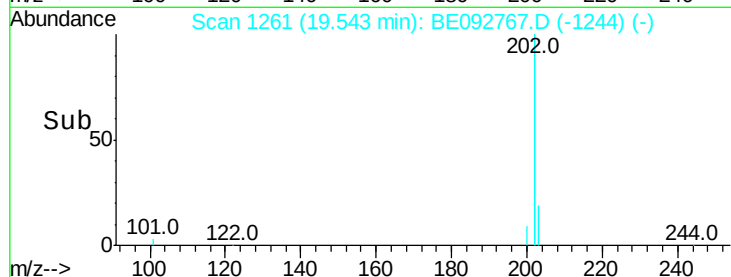
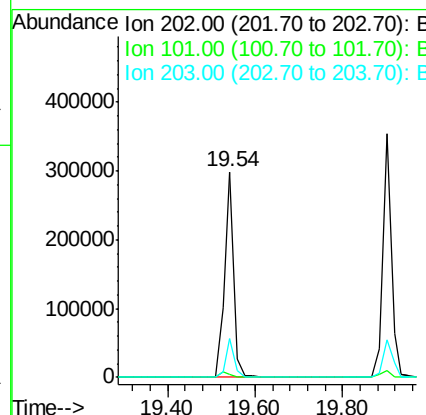
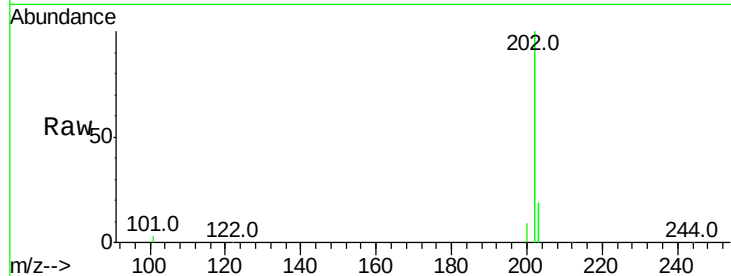
#23
 Fluoranthene
 Concen: 7.33 ng
 RT: 19.54 min Scan# 1261
 Delta R.T. -0.02 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Instrument :
 BNA_E
 ClientSampleId :
 C19013051MSD

Tot Ion	Ratio	Resp	Lower	Upper
202	100	441976		
101	2.9		2.2	3.4
203	17.7		13.7	20.5

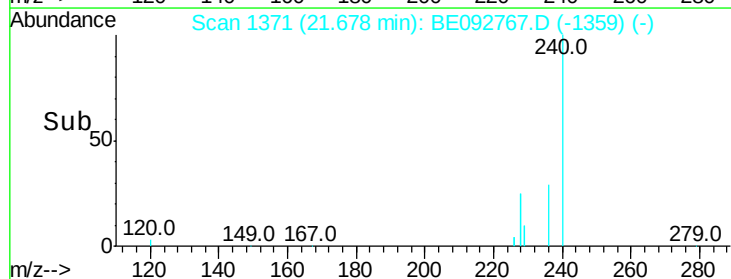
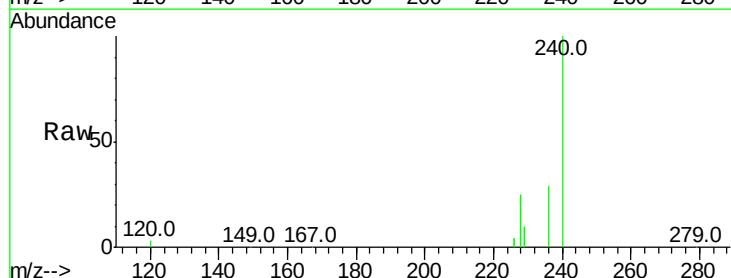
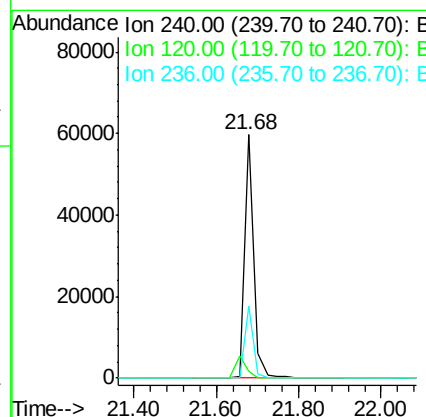
Manual Integrations
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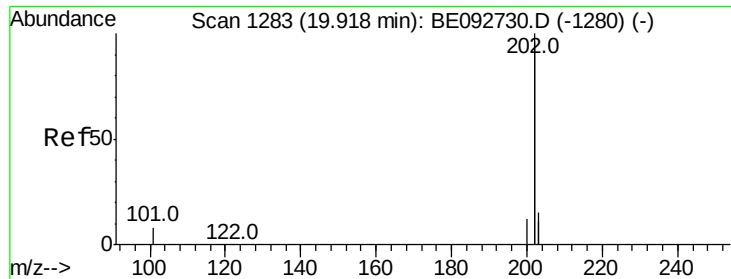
mohammad
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#24
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.68 min Scan# 1371
 Delta R.T. -0.02 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	92216		
120	2.9		2.6	4.0
236	29.4		24.6	37.0





#25

Pvrene

Concen: 5.44 ng

RT: 19.90 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Instrument :

BNA_E

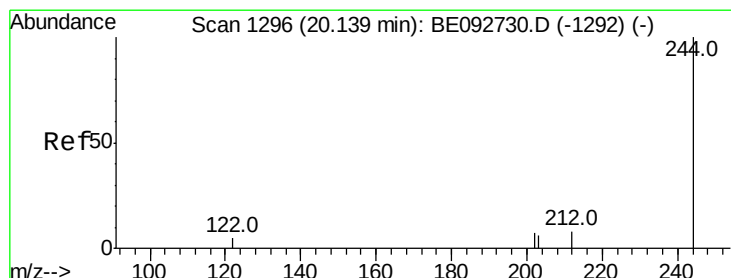
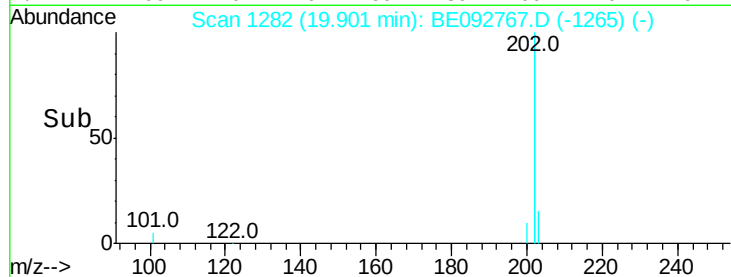
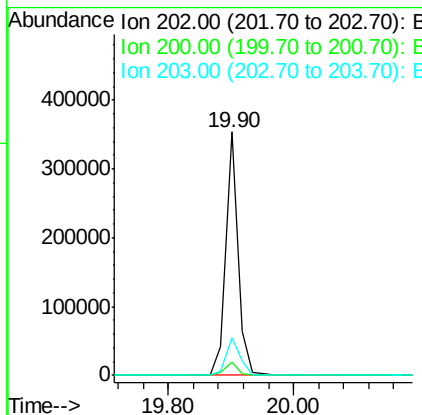
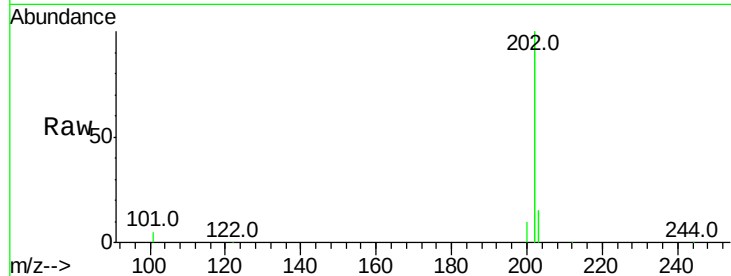
ClientSampleId :

C19013051MSD

Tot Ion:	202	Resp:	477619
Ion Ratio	Lower	Upper	
202	100		
200	5.3	4.2	6.4
203	17.7	13.9	20.9

Manual Integrations
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#26

Terphenyl-d14

Concen: 5.74 ng

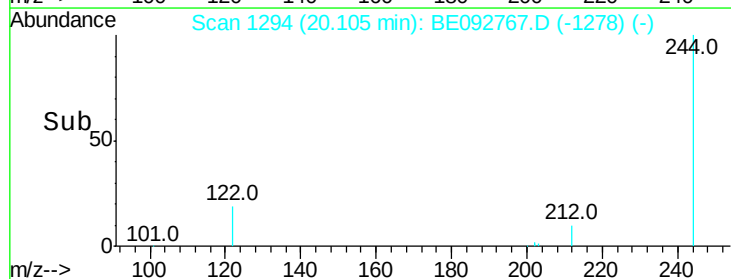
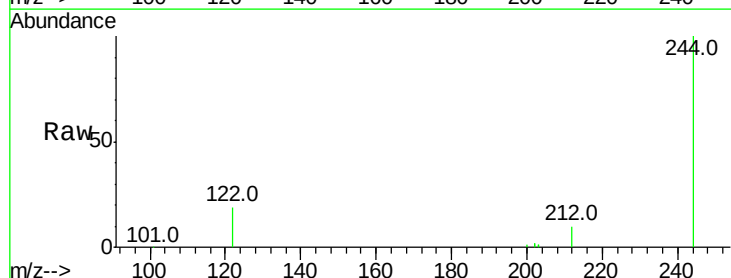
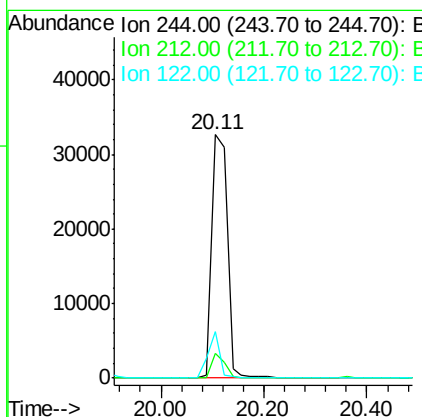
RT: 20.11 min Scan# 1294

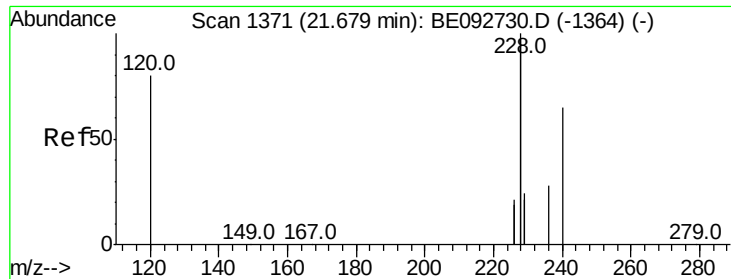
Delta R.T. -0.03 min

Lab File: BE092767.D

Acq: 28 Feb 2017 17:40

Tgt Ion:	244	Resp:	67551
Ion Ratio	Lower	Upper	
244	100		
212	10.2	6.7	10.1#
122	19.4	3.6	5.4#





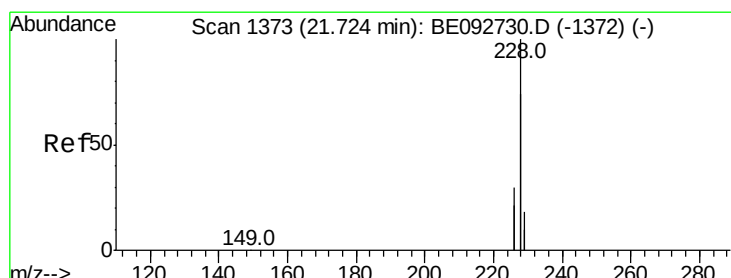
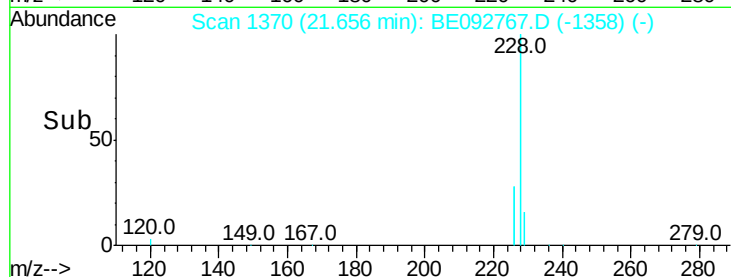
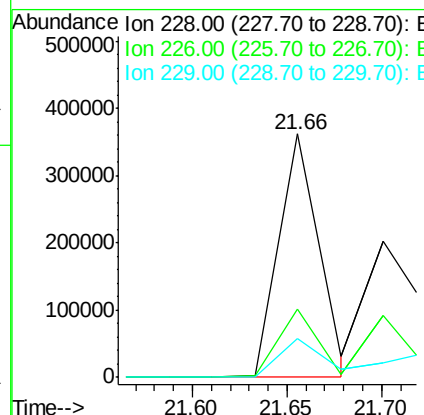
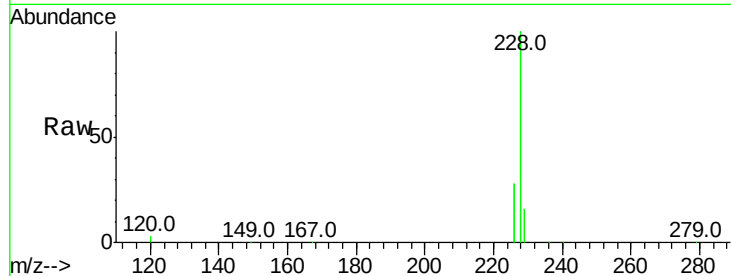
#27
Benzo(a)anthracene
Concen: 6.00 ng m
RT: 21.66 min Scan# 1370
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	23.6	35.4
229	16.0	13.3	19.9

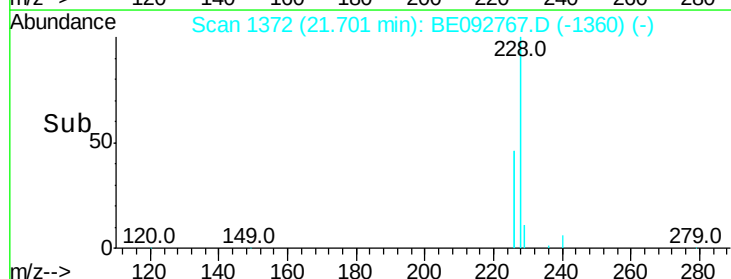
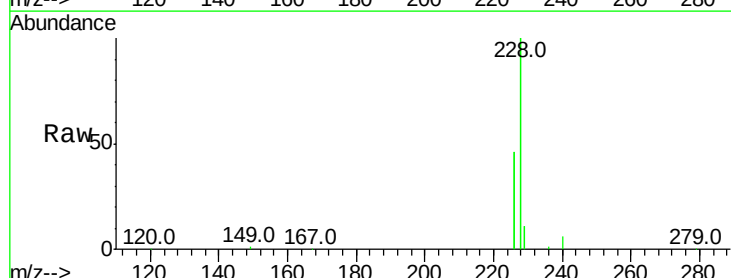
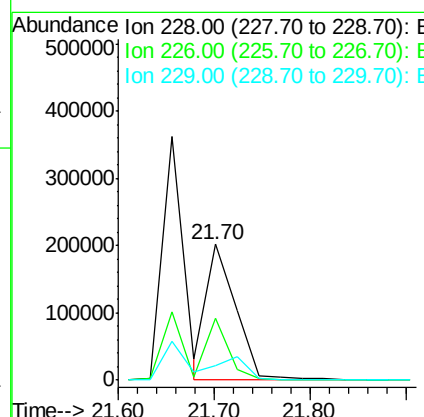
Manual Integrations
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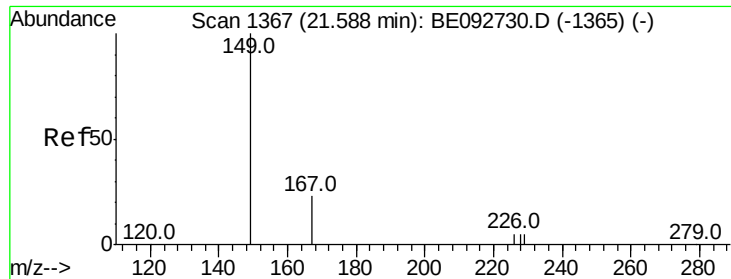
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#28
Chrysene
Concen: 4.12 ng m
RT: 21.70 min Scan# 1372
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	46.0	36.3	54.5
229	10.9	10.6	16.0





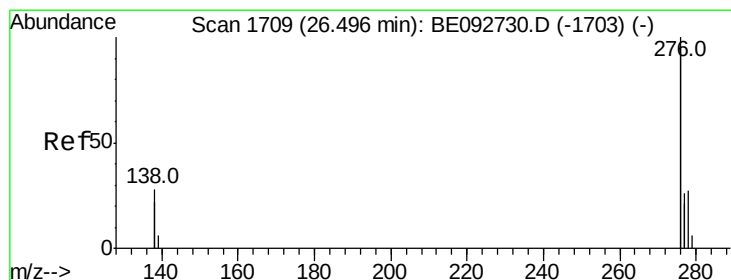
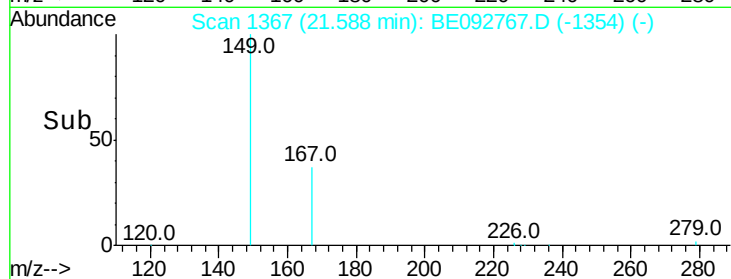
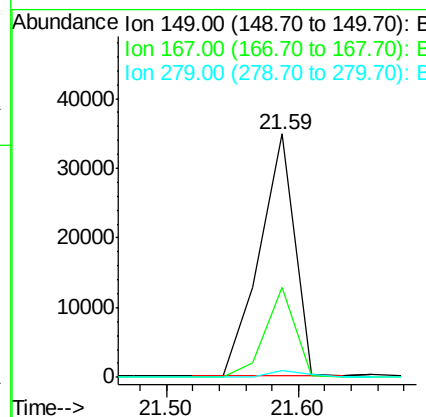
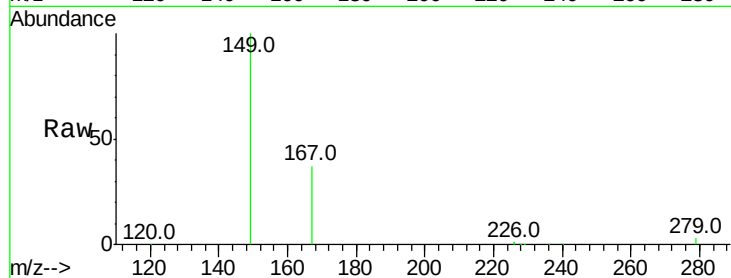
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 5.28 ng
 RT: 21.59 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Instrument :
 BNA_E
 ClientSampleId :
 C19013051MSD

Tot Ion	Ratio	Lower	Upper
149	100		
167	31.4	16.0	24.0#
279	2.6	16.0	24.0#

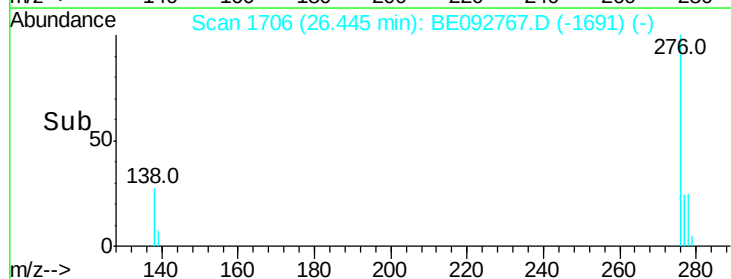
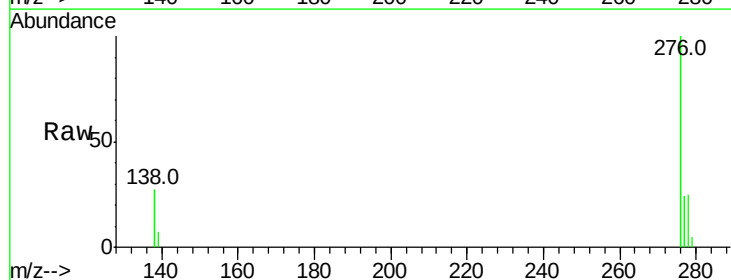
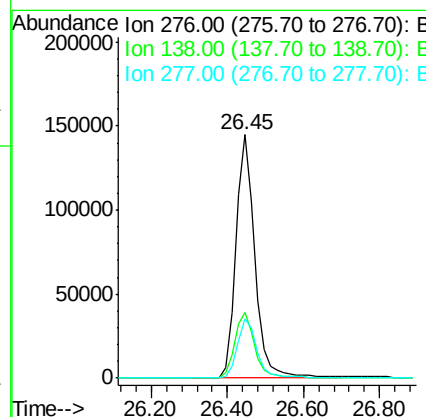
Manual Integrations
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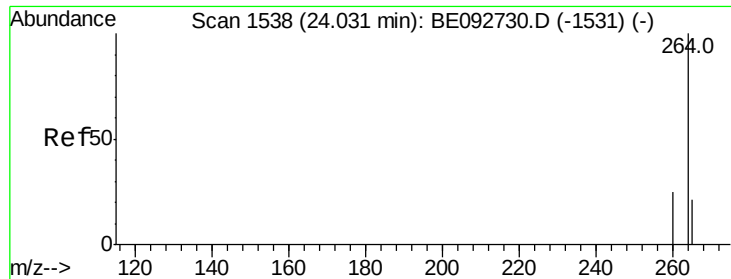
mohammad
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 4.59 ng
 RT: 26.45 min Scan# 1706
 Delta R.T. -0.05 min
 Lab File: BE092767.D
 Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.0	20.3	30.5
277	24.7	19.7	29.5





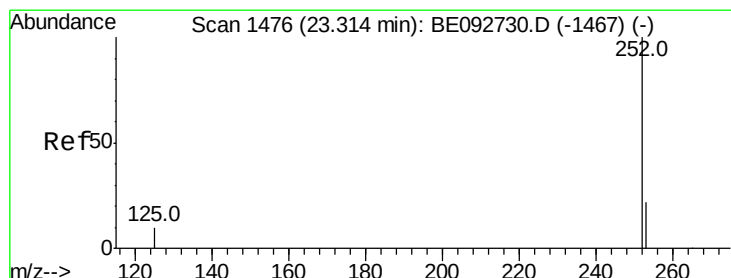
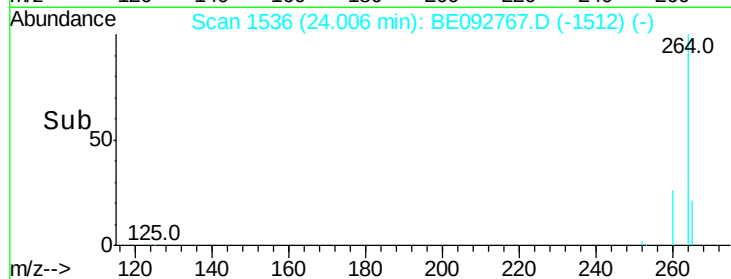
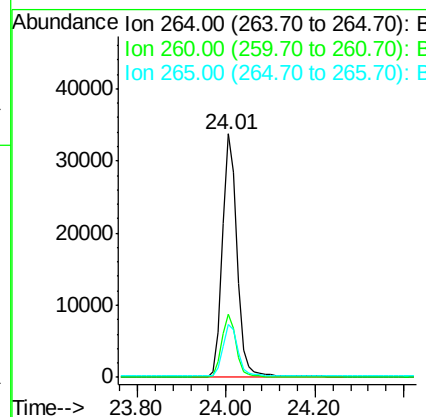
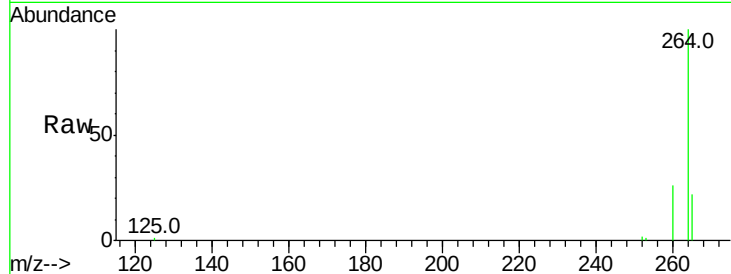
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.01 min Scan# 1536
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.1	30.1
265	21.7	17.9	26.9

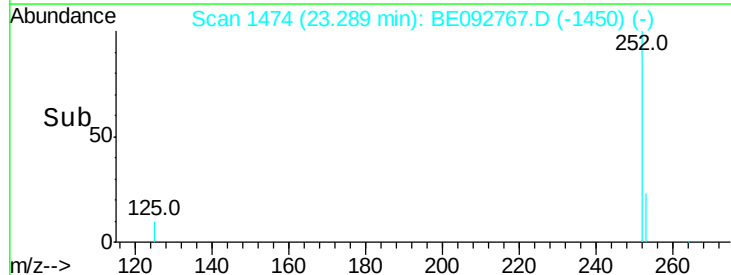
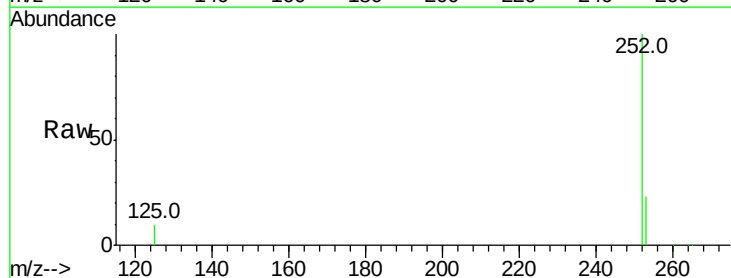
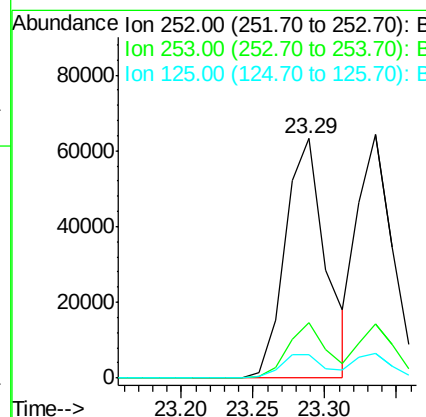
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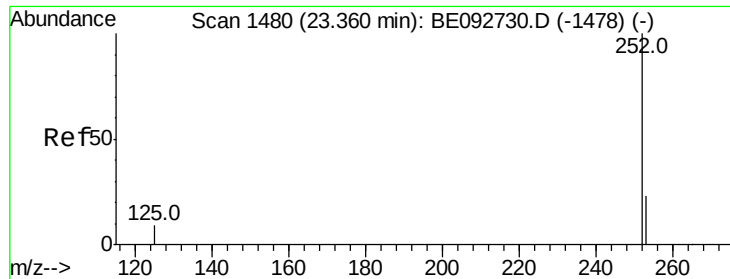
mohammad
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#32
Benzo(b)fluoranthene
Concen: 6.03 ng
RT: 23.29 min Scan# 1474
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.7	28.1
125	9.9	10.5	15.7#





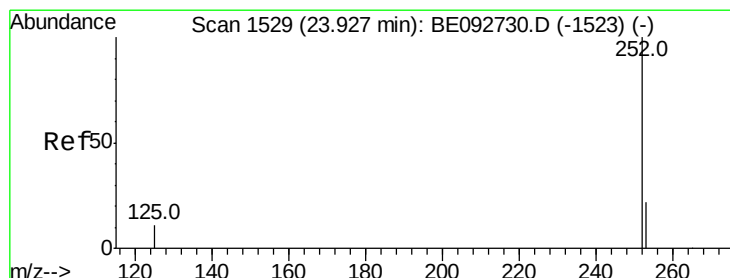
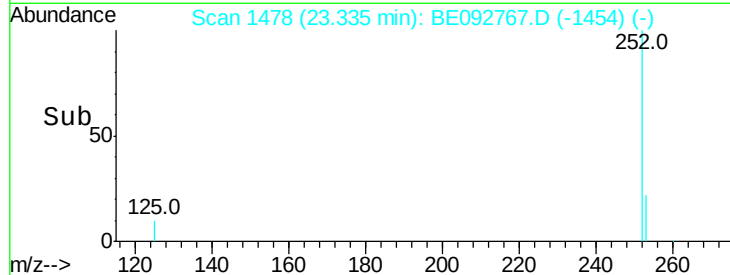
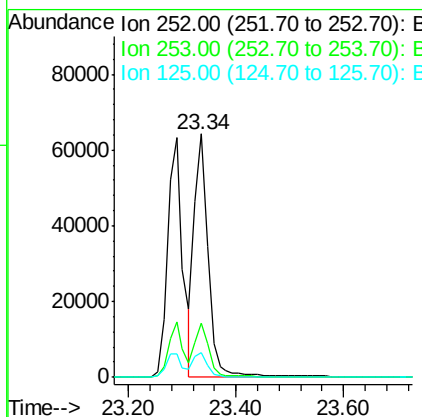
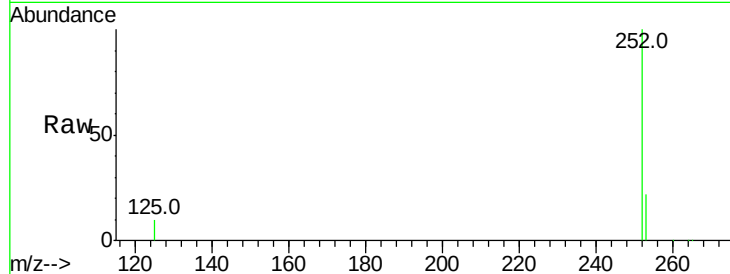
#33
Benzo(k)fluoranthene
Concen: 5.21 ng
RT: 23.34 min Scan# 1478
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.3	30.5
125	10.3	9.6	14.4

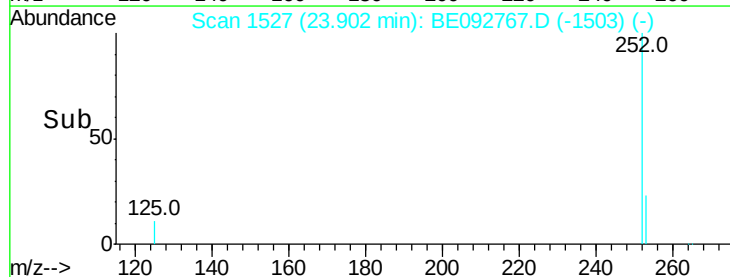
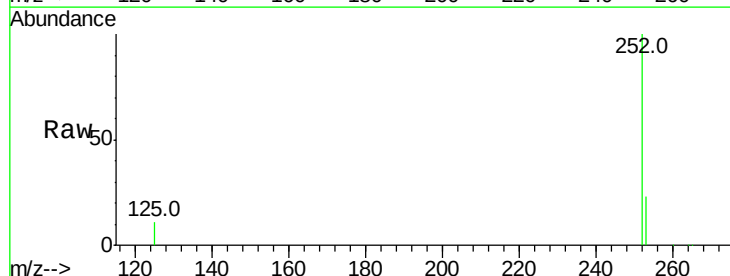
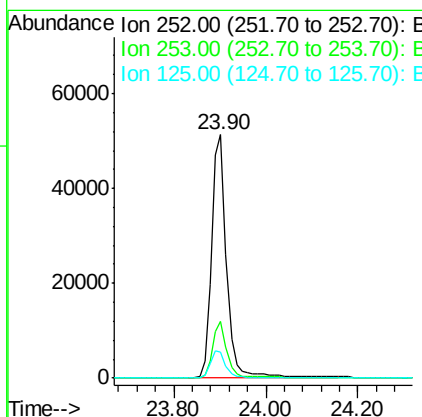
Manual Integrations
APPROVED

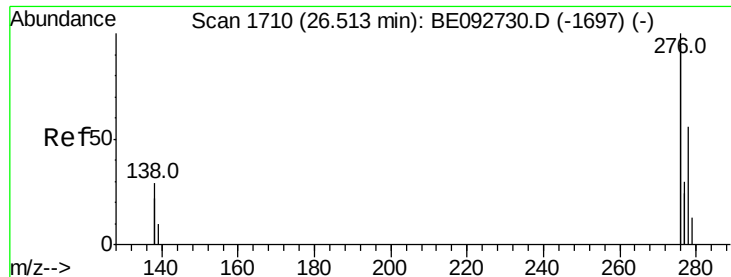
mohammad
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#34
Benzo(a)pyrene
Concen: 5.74 ng
RT: 23.90 min Scan# 1527
Delta R.T. -0.02 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.0	28.6
125	10.8	11.8	17.8#





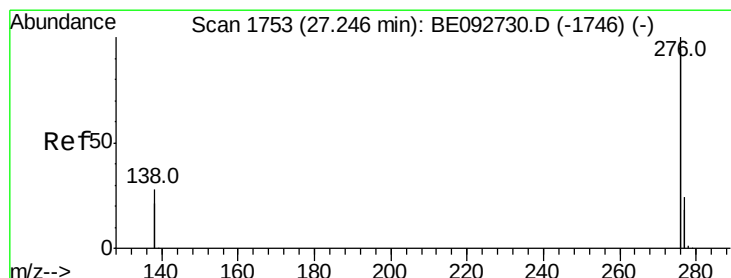
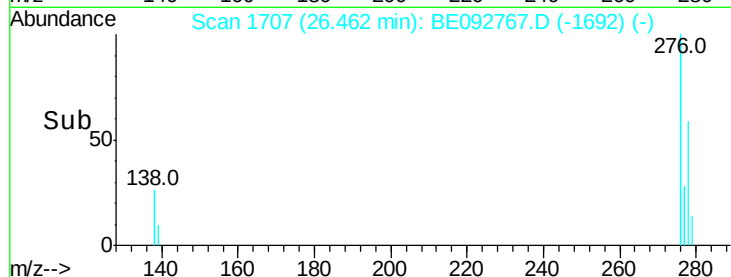
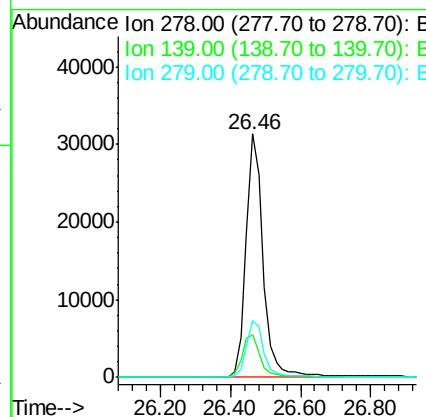
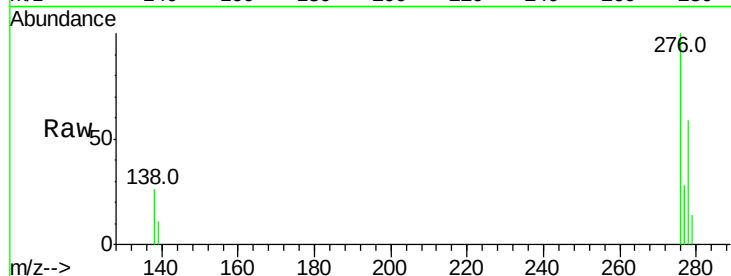
#35
Dibenzo(a,h)anthracene
Concen: 5.37 ng
RT: 26.46 min Scan# 1707
Delta R.T. -0.05 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Instrument :
BNA_E
ClientSampleId :
C19013051MSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.8	20.8
279	23.2	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 5.30 ng
RT: 27.20 min Scan# 1750
Delta R.T. -0.05 min
Lab File: BE092767.D
Acq: 28 Feb 2017 17:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.8	29.8
138	25.1	19.8	29.6

