

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032919\
 Data File : BE099257.D
 Acq On : 29 Mar 2019 16:27
 Operator : JU/SJ
 Sample : K1982-12
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW024-032519

Manual Integrations
 APPROVED

Sohil
 4/1/2019 5:45:09 PM

Quant Time: Mar 29 23:21:50 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Mar 26 07:02:06 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	3499	0.40	ng	-0.01
7) Naphthalene-d8	10.63	136	14575	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	11089	0.40	ng	-0.01
19) Phenanthrene-d10	17.20	188	33900	0.40	ng	-0.01
27) Chrysene-d12	21.38	240	42088	0.40	ng	-0.01
34) Perylene-d12	23.89	264	41121	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	1953	0.19	ng	0.00
5) Phenol-d6	6.99	99	2931	0.18	ng	0.00
8) Nitrobenzene-d5	8.99	82	2204	0.19	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	5267	0.19	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	925	0.38	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	7768	0.17	ng	0.00
25) Fluoranthene-d10	19.24	212	77211	0.19	ng	0.00
29) Terphenyl-d14	19.83	244	13122	0.14	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.67	128	8776	0.051	ng	# 97
12) 2-Methylnaphthalene	12.30	142	1413	0.046	ng	97
16) Acenaphthylene	14.20	152	2205	0.039	ng	97
17) Acenaphthene	14.53	154	5424	0.160	ng	100
18) Fluorene	15.50	166	7372	0.155	ng	# 97
23) Phenanthrene	17.24	178	162489	1.632	ng	100
24) Anthracene	17.34	178	35935	0.399	ng	# 95
26) Fluoranthene	19.26	202	242818	1.911	ng	99
28) Pyrene	19.63	202	209374	1.497	ng	# 95
30) Benzo(a)anthracene	21.37	228	140428	1.011	ng	98
31) Chrysene	21.41	228	108930m	0.734	ng	
32) Bis(2-ethylhexyl)phthalate	21.28	149	8211	0.050	ng	# 94
33) Indeno(1,2,3-cd)pyrene	26.53	276	43876	0.312	ng	# 95
35) Benzo(b)fluoranthene	23.12	252	111710	0.826	ng	95
36) Benzo(k)fluoranthene	23.16	252	47487m	0.332	ng	
37) Benzo(a)pyrene	23.77	252	81563	0.645	ng	97
38) Dibenzo(a,h)anthracene	26.56	278	12004	0.107	ng	# 77
39) Benzo(g,h,i)perylene	27.35	276	41334	0.367	ng	96

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

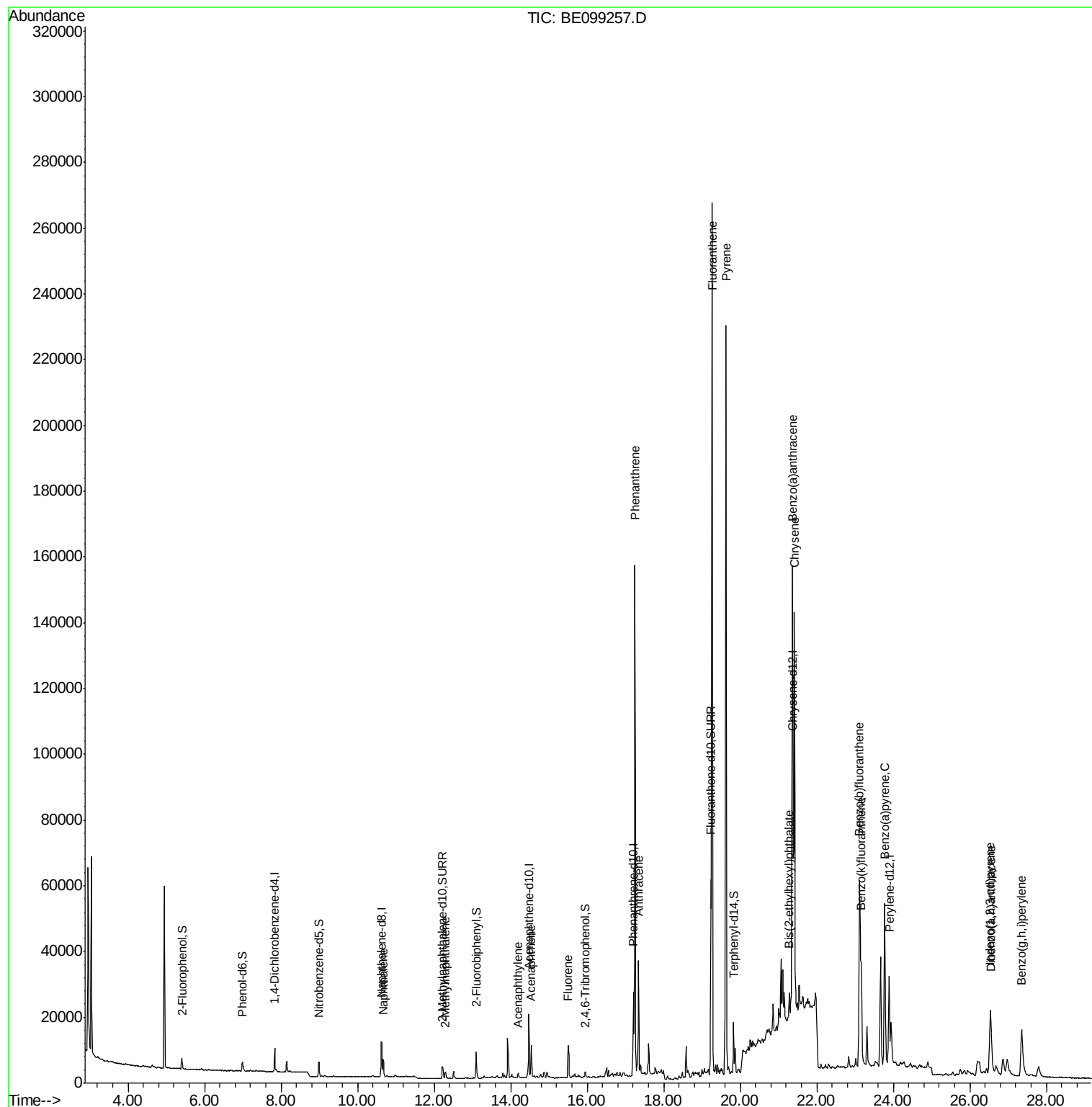
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032919\
Data File : BE099257.D
Acq On : 29 Mar 2019 16:27
Operator : JU/SJ
Sample : K1982-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

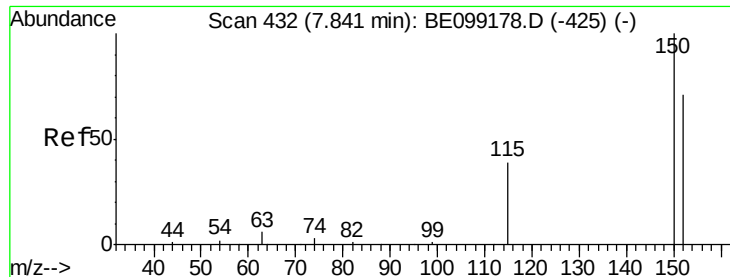
Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM

Quant Time: Mar 29 23:21:50 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 26 07:02:06 2019
Response via : Initial Calibration

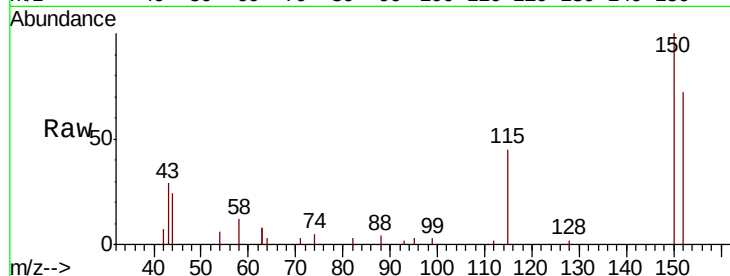




#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.83 min Scan# 431
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

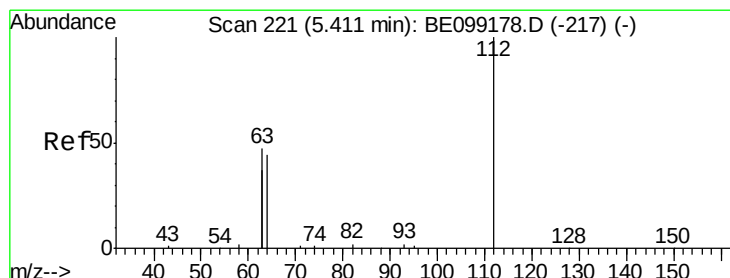
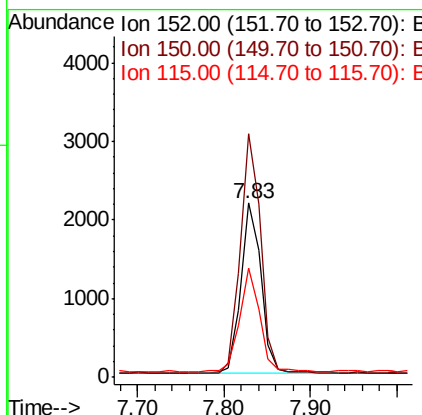
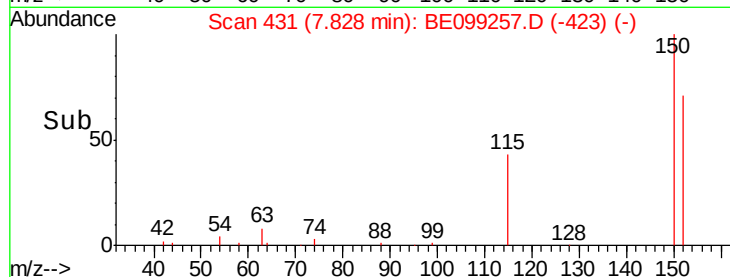
Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519



Tgt Ion	Ratio	Lower	Upper
152	100		
150	139.6	112.8	169.2
115	62.8	45.1	67.7

Manual Integrations
APPROVED

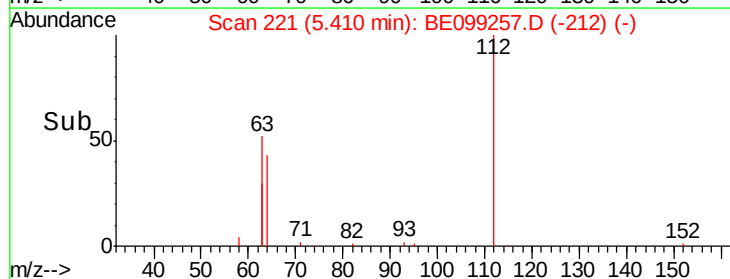
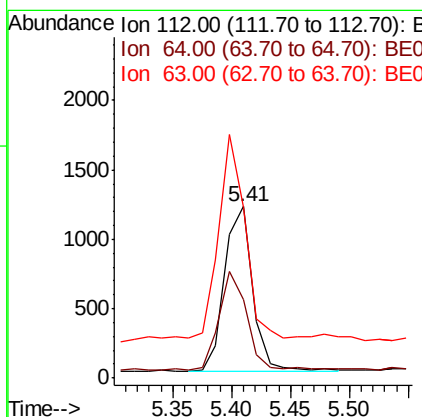
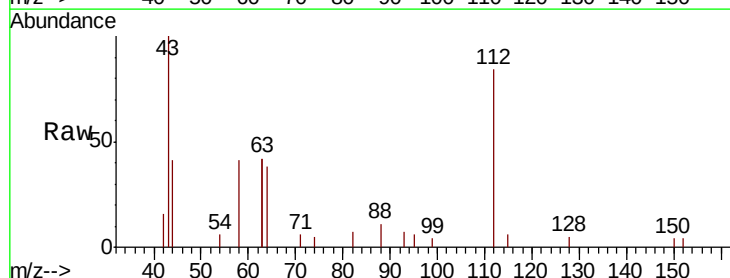
Sohil
4/1/2019 5:45:09 PM

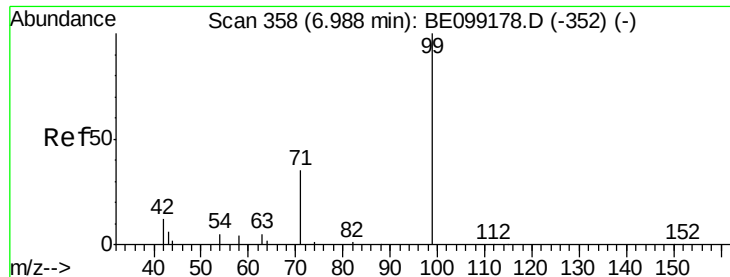


#4

2-Fluorophenol
Concen: 0.187 ng
RT: 5.41 min Scan# 221
Delta R.T. -0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.5	46.2	69.2
63	116.1	89.9	134.9





#5

Phenol-d6

Concen: 0.184 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA_E

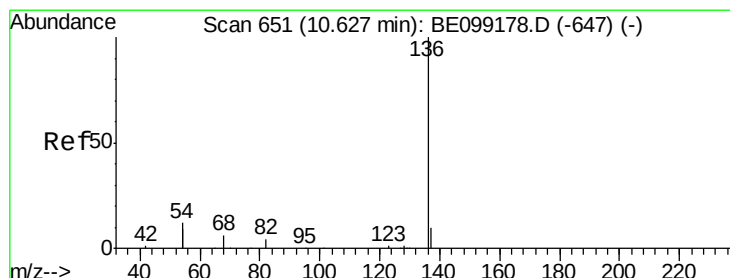
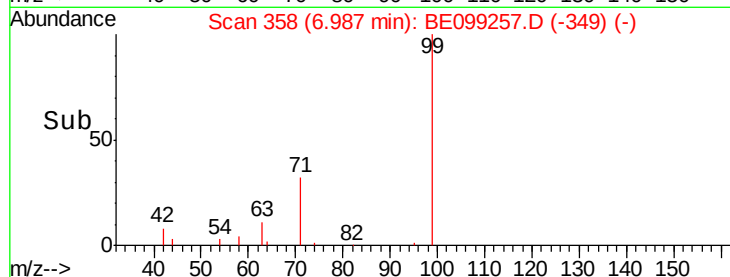
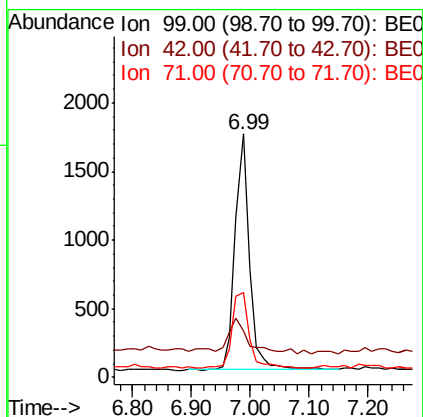
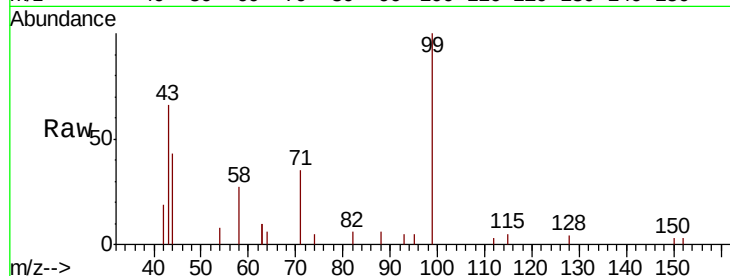
ClientSampleId :

EXT-027-SW024-032519

Tgt Ion:	99	Resp:	2931
Ion Ratio	Lower	Upper	
99	100		
42	21.8	12.4	18.6#
71	38.2	28.4	42.6

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM



#7

Naphthalene-d8

Concen: 0.400 ng

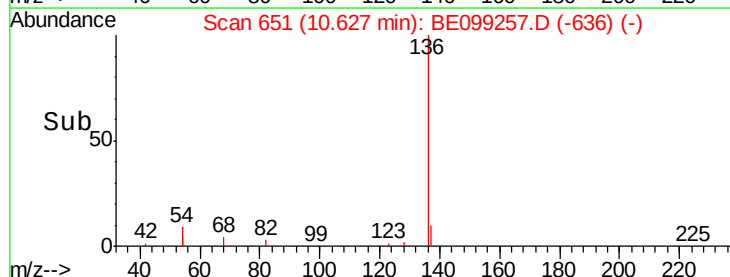
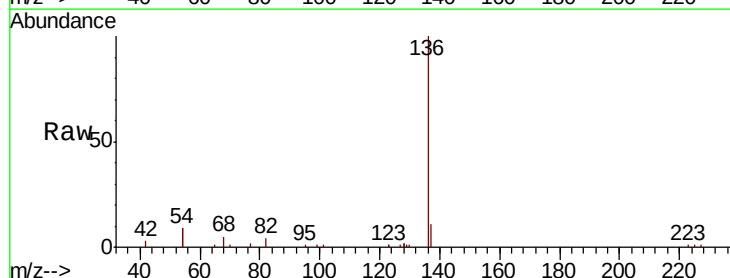
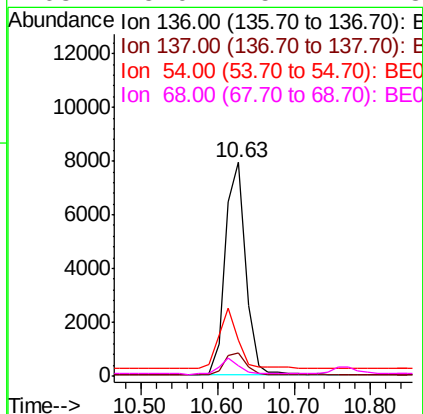
RT: 10.63 min Scan# 651

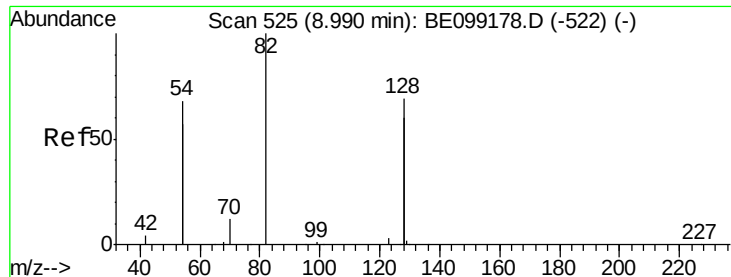
Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Tgt Ion:	136	Resp:	14575
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	17.0	18.7	28.1#
68	5.0	5.2	7.8#





#8

Nitrobenzene-d5

Concen: 0.185 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA_E

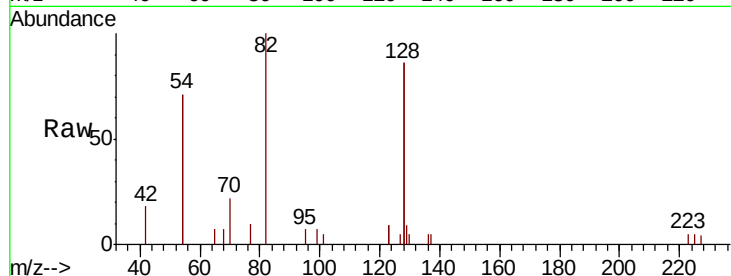
ClientSampleId :

EXT-027-SW024-032519

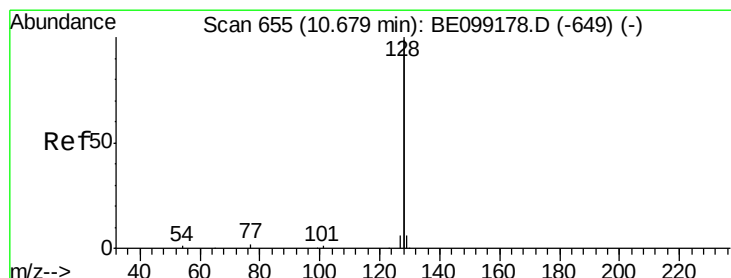
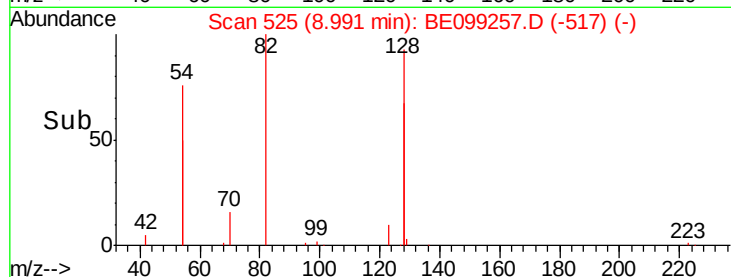
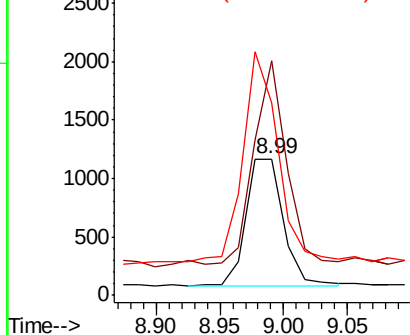
Tgt Ion:	82	Resp:	2204
Ion Ratio	Lower	Upper	
82	100		
128	171.9	107.5	161.3#
54	141.1	106.3	159.5

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.051 ng

RT: 10.67 min Scan# 654

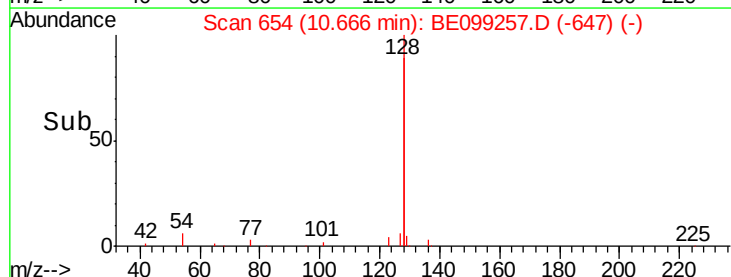
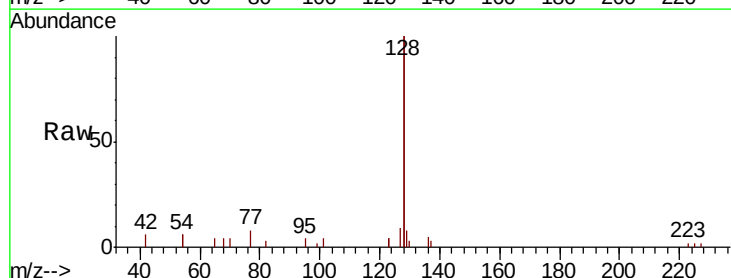
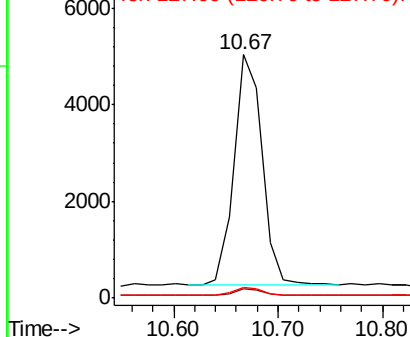
Delta R.T. -0.01 min

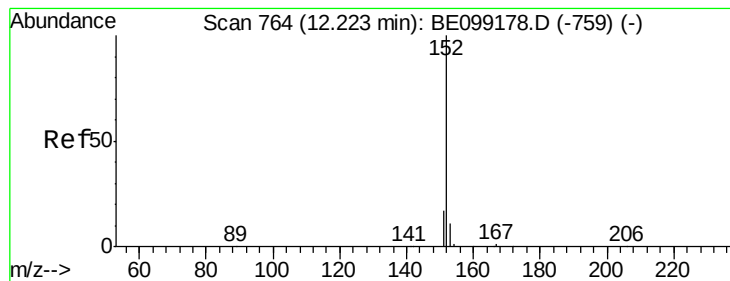
Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Tgt Ion:	128	Resp:	8776
Ion Ratio	Lower	Upper	
128	100		
129	3.8	2.3	3.5#
127	4.3	2.6	3.8#

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





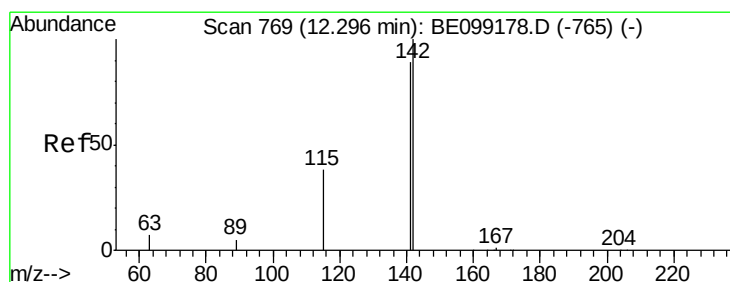
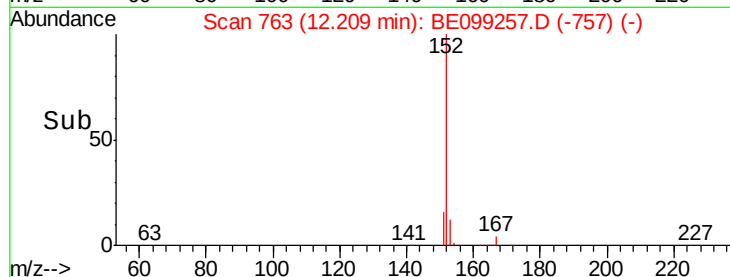
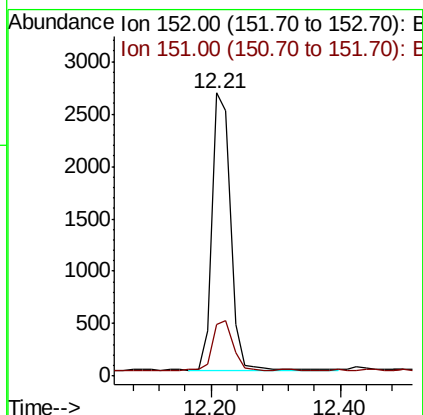
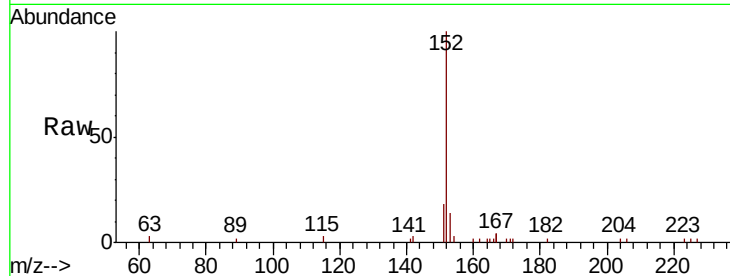
#11
 2-Methylnaphthalene-d10
 Concen: 0.188 ng
 RT: 12.21 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.0	22.6

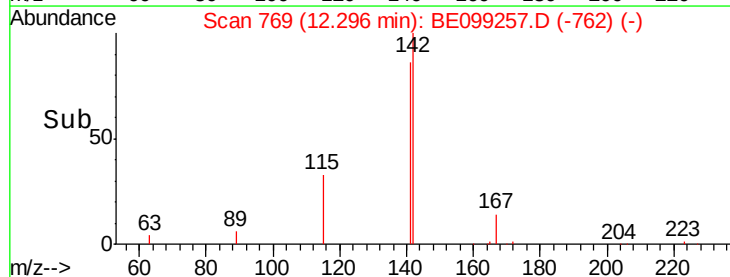
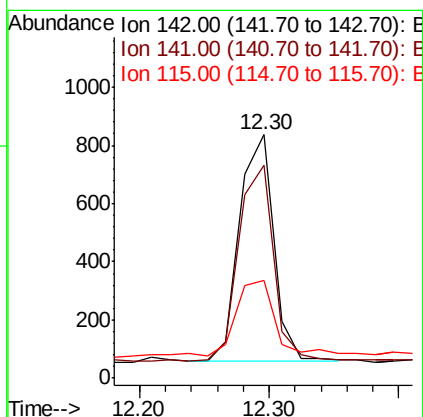
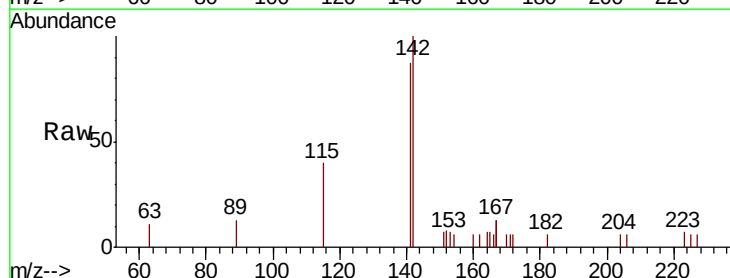
Manual Integrations
 APPROVED

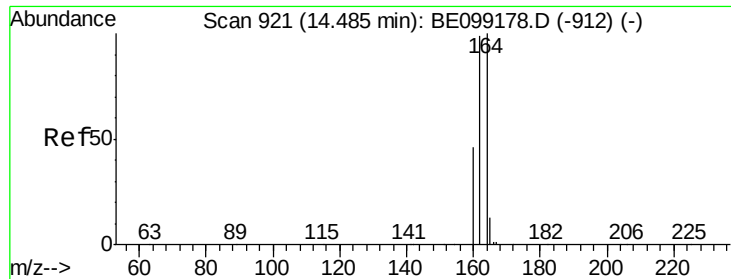
Sohil
 4/1/2019 5:45:09 PM



#12
 2-Methylnaphthalene
 Concen: 0.046 ng
 RT: 12.30 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.2	71.3	106.9
115	40.4	30.4	45.6





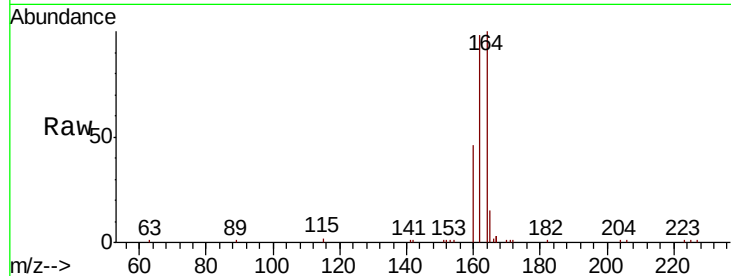
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.0	79.2	118.8
160	45.9	36.7	55.1

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM

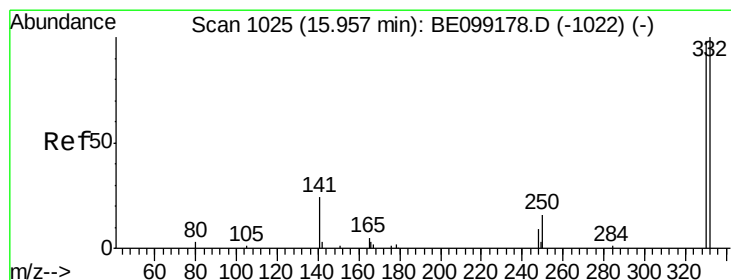
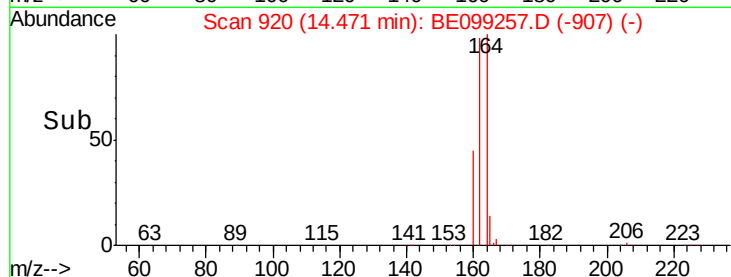
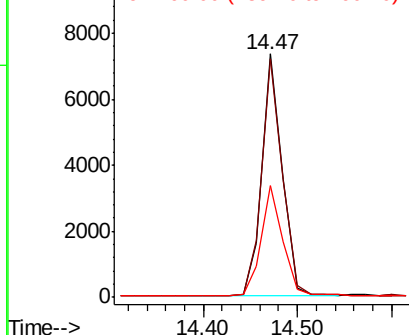


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.96 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

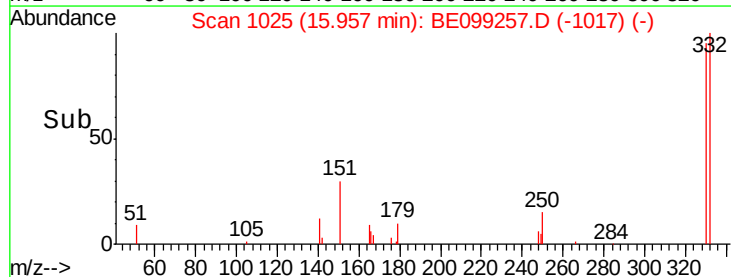
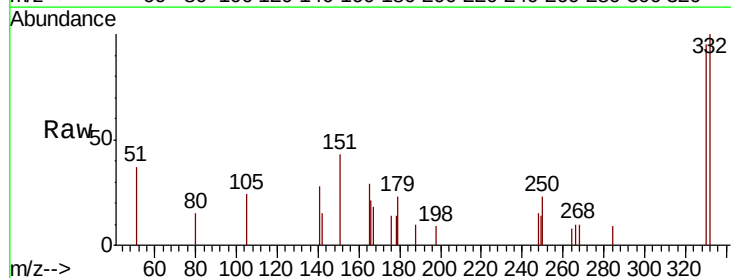
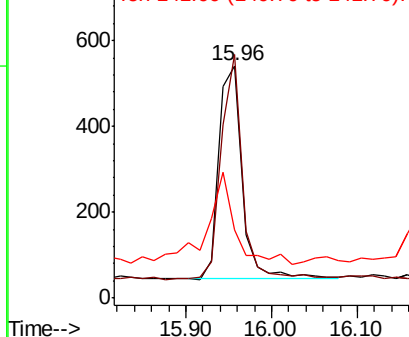
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	71.3	106.9
141	53.2	21.7	32.5#

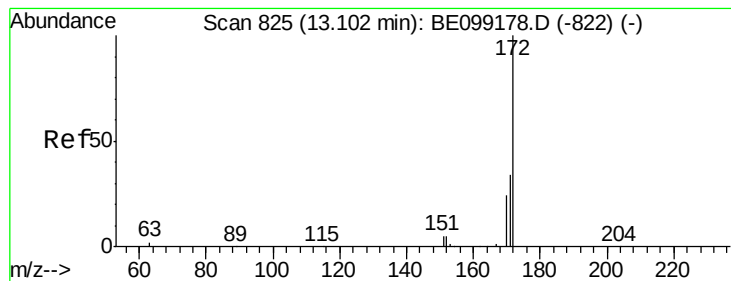
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





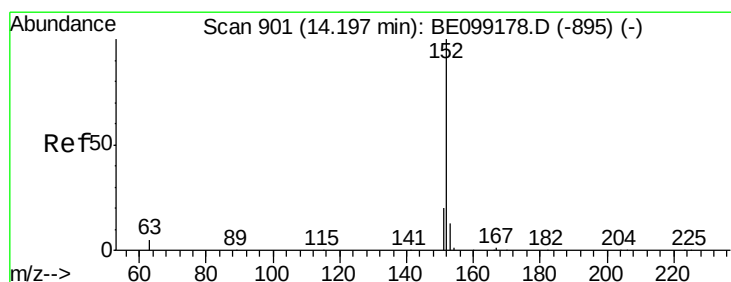
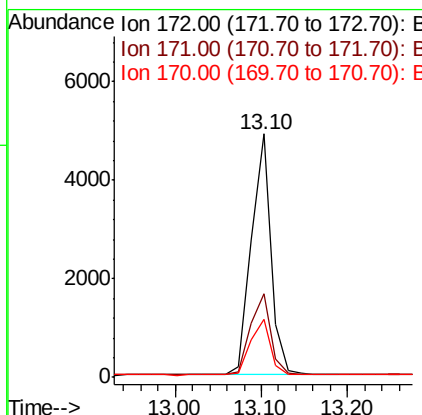
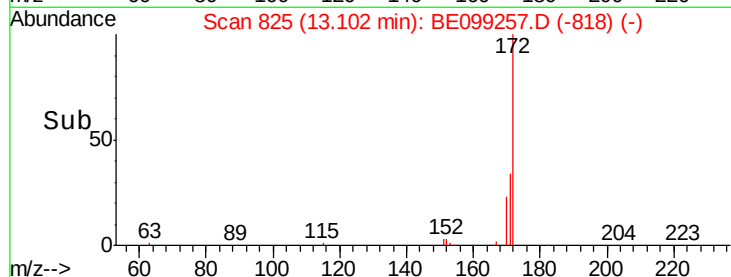
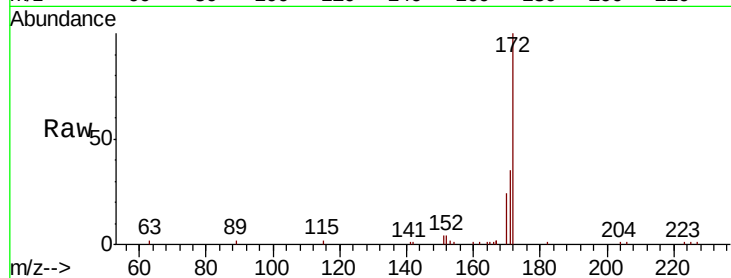
#15
2-Fluorobiphenyl
Concen: 0.172 ng
RT: 13.10 min Scan# 825
Delta R.T. 0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.4	41.0
170	23.8	19.1	28.7

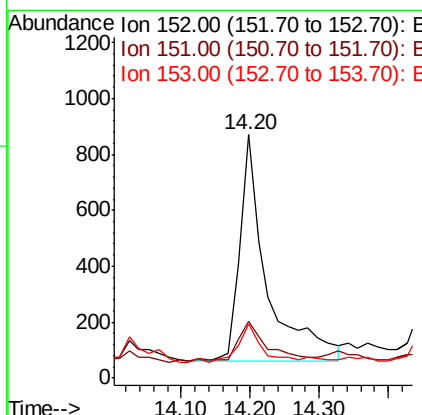
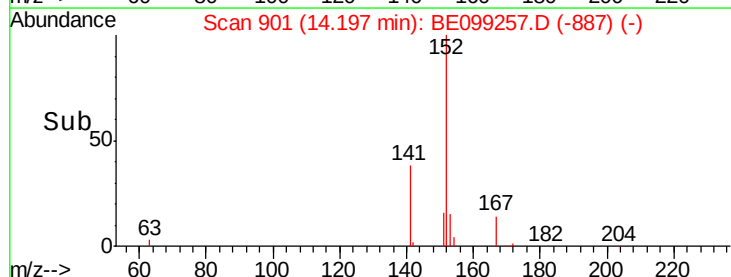
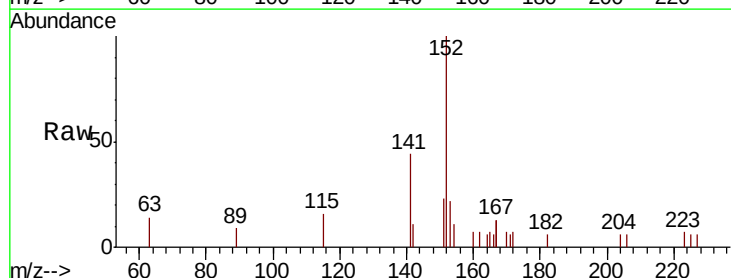
Manual Integrations
APPROVED

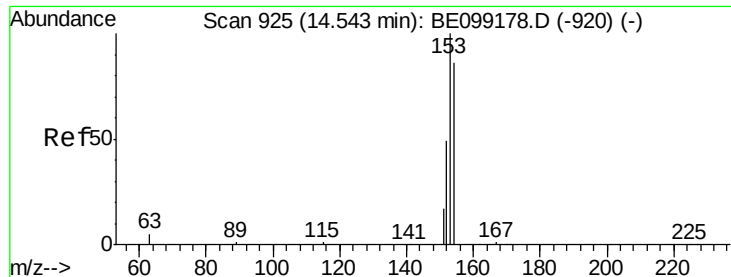
Sohil
4/1/2019 5:45:09 PM



#16
Acenaphthylene
Concen: 0.039 ng
RT: 14.20 min Scan# 901
Delta R.T. 0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.7	23.5
153	14.9	10.6	15.8





#17

Acenaphthene

Concen: 0.160 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA_E

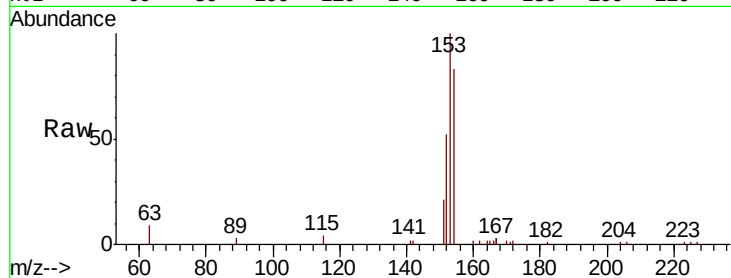
ClientSampleId :

EXT-027-SW024-032519

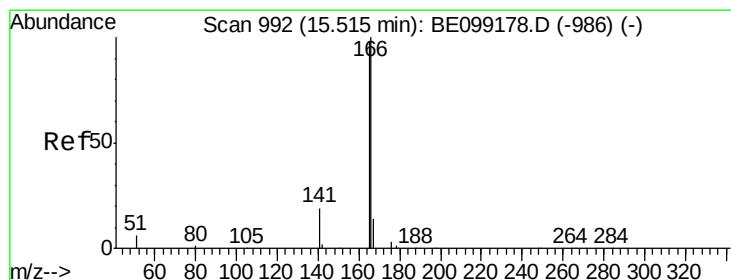
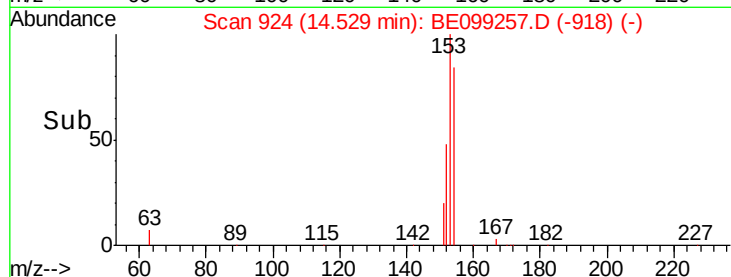
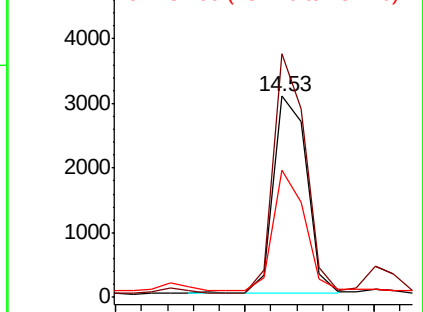
Tgt Ion:	154	Resp:	5424
Ion Ratio	Lower	Upper	
154	100		
153	116.9	93.4	140.0
152	57.6	46.6	69.8

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.155 ng

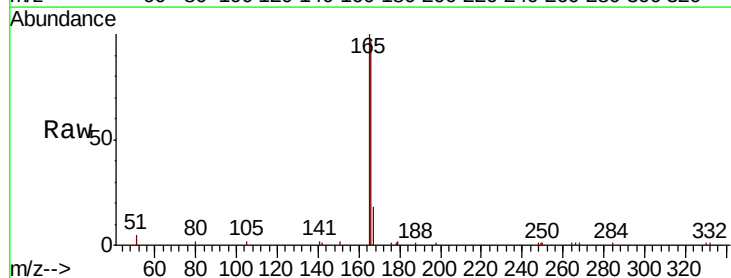
RT: 15.50 min Scan# 991

Delta R.T. -0.01 min

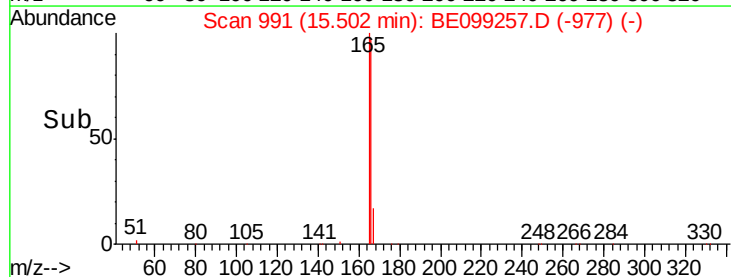
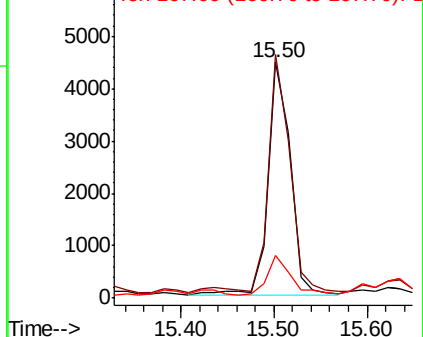
Lab File: BE099257.D

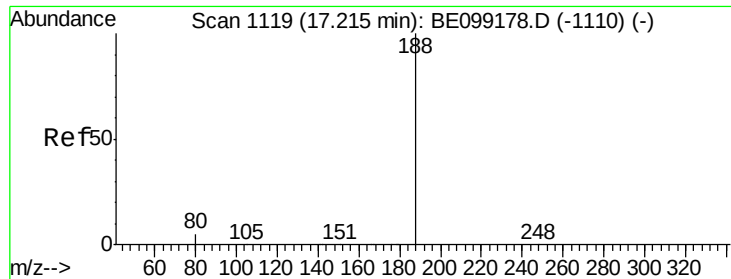
Acq: 29 Mar 2019 16:27

Tgt Ion:	166	Resp:	7372
Ion Ratio	Lower	Upper	
166	100		
165	96.8	78.9	118.3
167	17.8	10.9	16.3#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





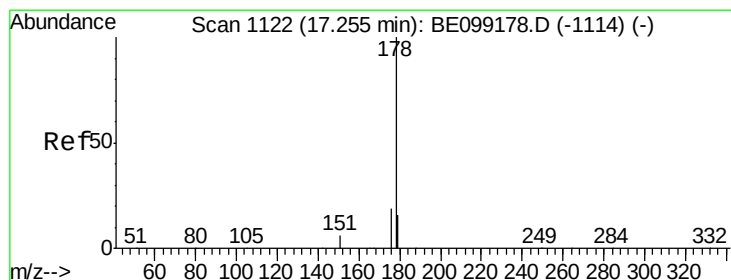
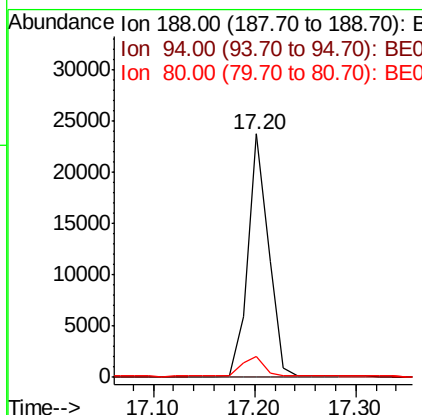
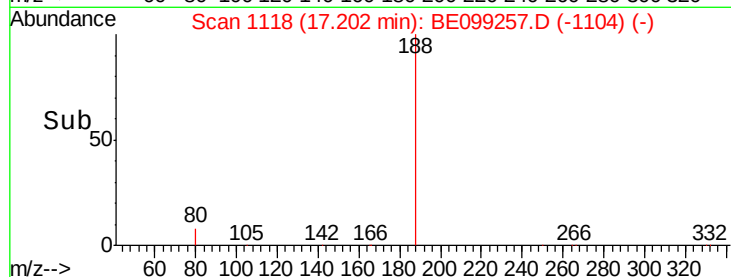
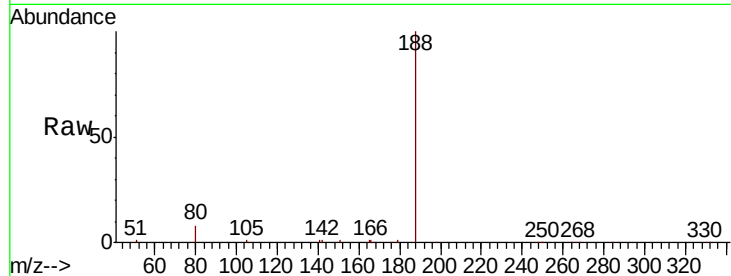
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.5	6.7#

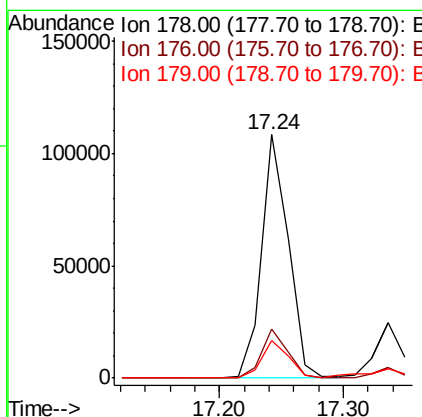
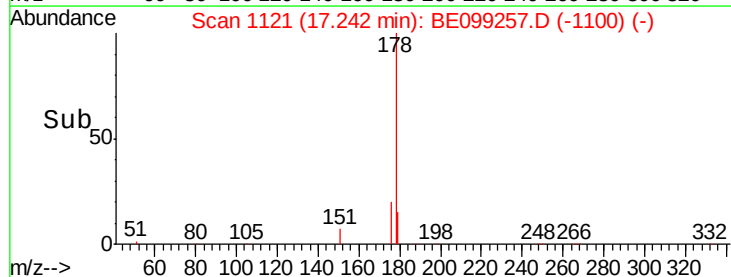
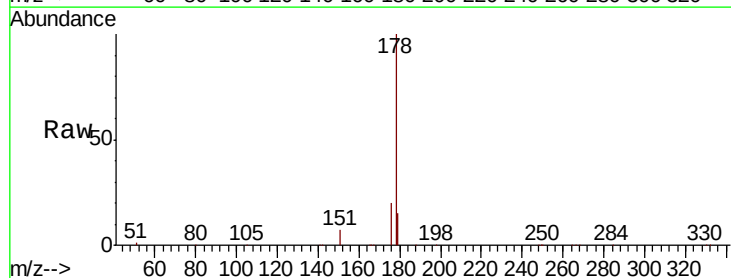
Manual Integrations
APPROVED

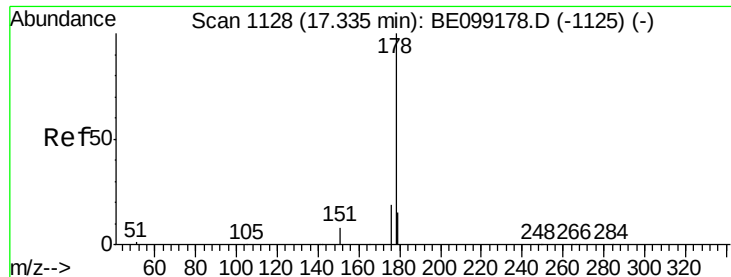
Sohil
4/1/2019 5:45:09 PM



#23
Phenanthrene
Concen: 1.632 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.5	12.3	18.5





#24

Anthracene

Concen: 0.399 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA_E

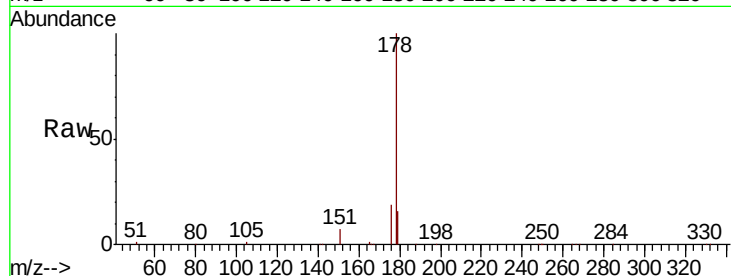
ClientSampleId :

EXT-027-SW024-032519

Tgt Ion:	178	Resp:	35935
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.1	22.7
179	19.8	12.4	18.6#

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM

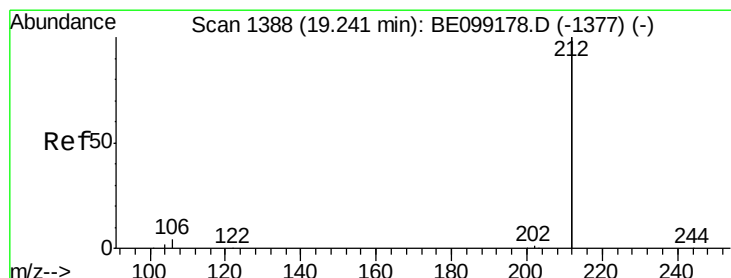
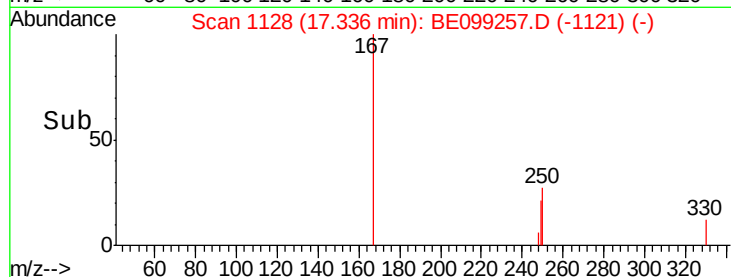
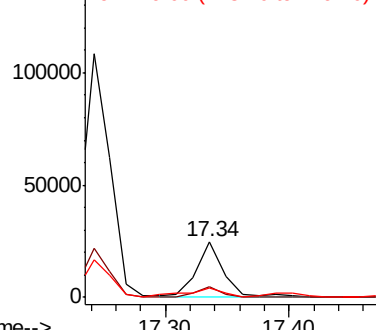


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

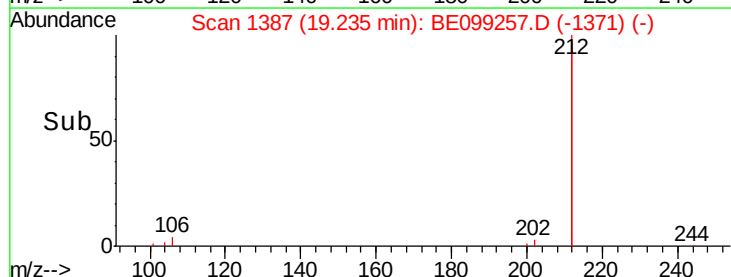
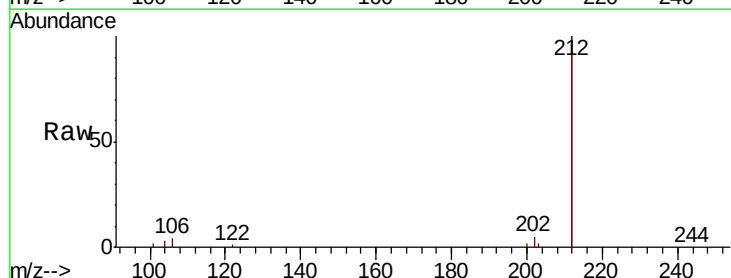
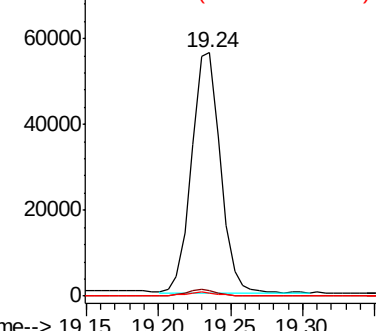
Tgt Ion:	212	Resp:	77211
Ion Ratio	Lower	Upper	
212	100		
106	2.3	1.8	2.8
104	1.4	1.1	1.7

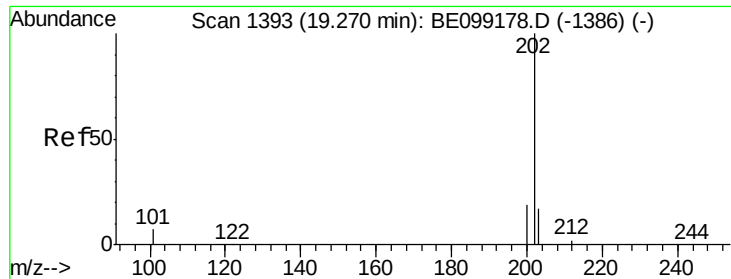
Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





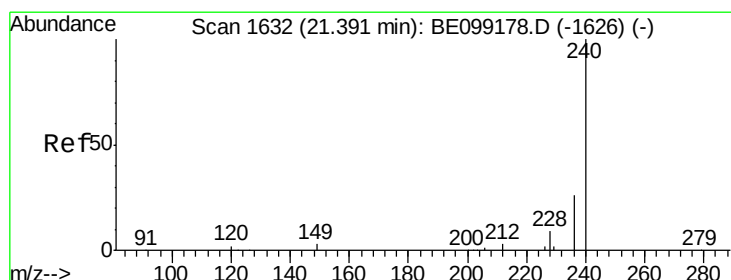
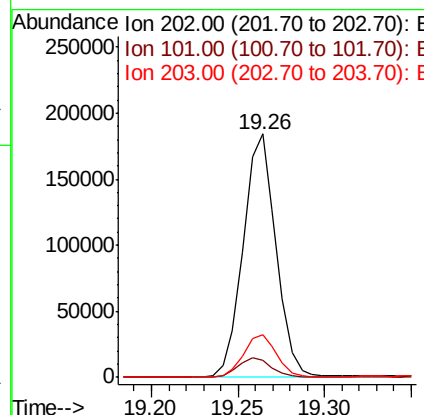
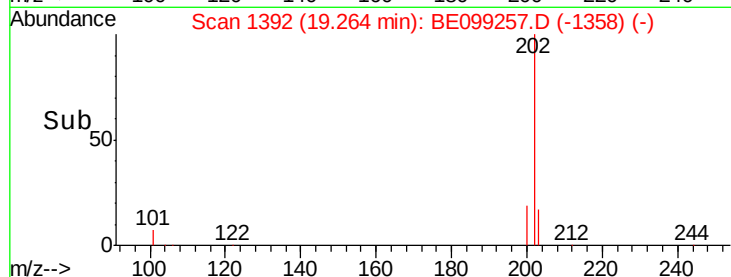
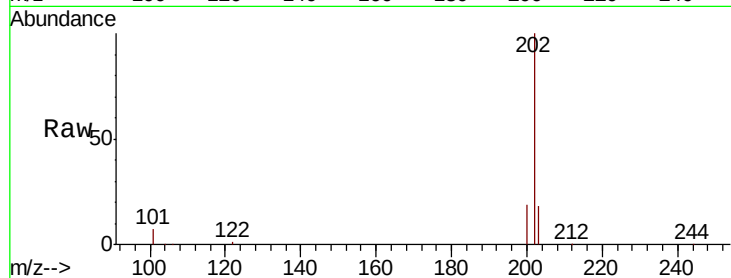
#26
Fluoranthene
 Concen: 1.911 ng
 RT: 19.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW024-032519

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	242818		
101	7.9	7.0	10.4	
203	17.6	13.8	20.6	

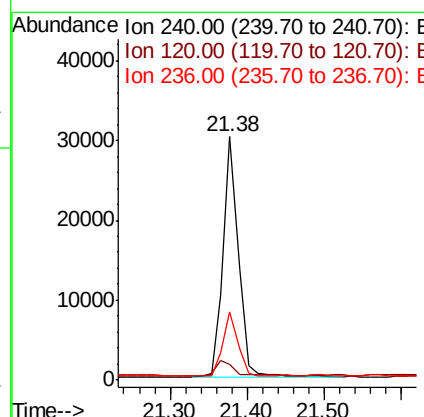
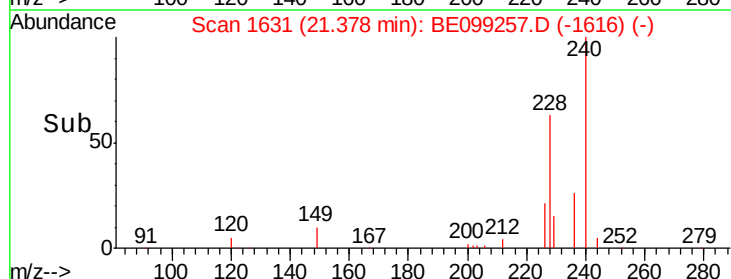
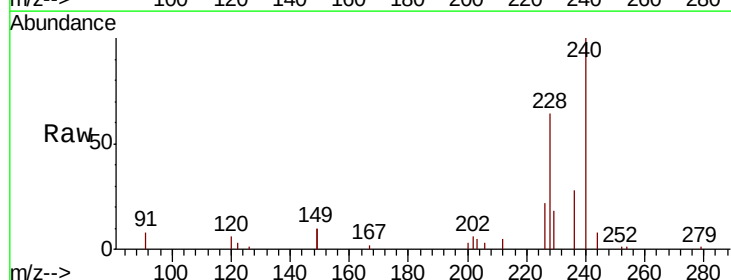
Manual Integrations
 APPROVED

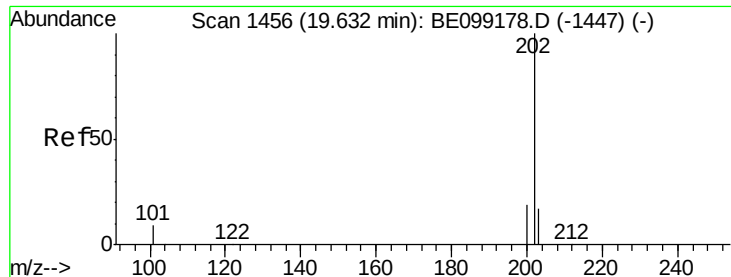
Sohil
 4/1/2019 5:45:09 PM



#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.38 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	42088		
120	6.4	2.6	3.8#	
236	27.8	20.9	31.3	





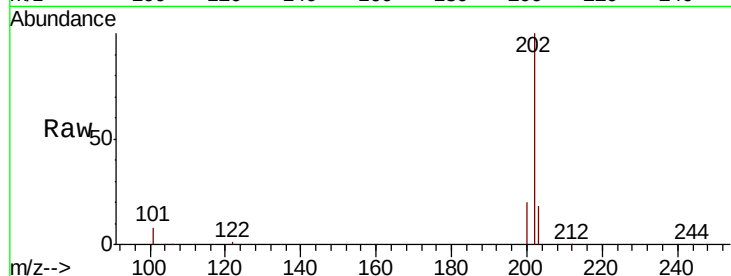
#28
Pyrene
Concen: 1.497 ng
RT: 19.63 min Scan# 1455
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	19.8	15.8	23.8
203	22.5	14.1	21.1

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM

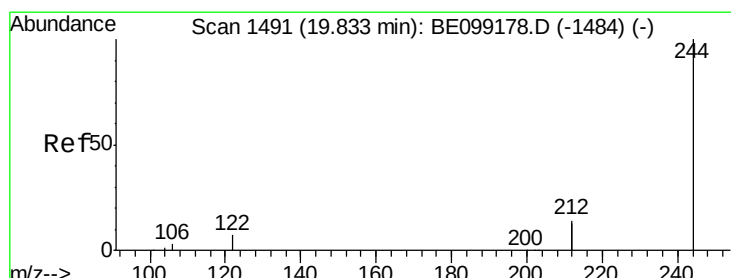
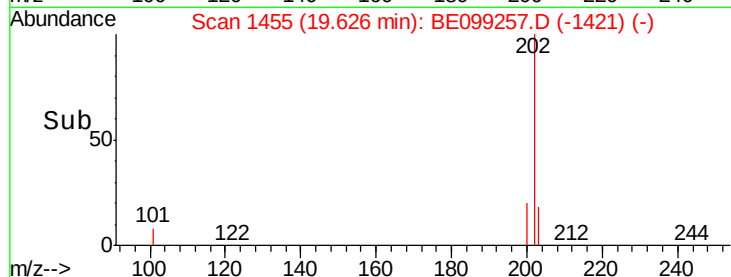
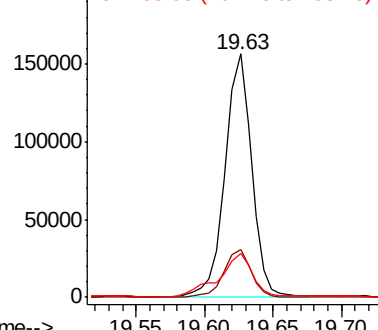


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29
Terphenyl-d14
Concen: 0.143 ng
RT: 19.83 min Scan# 1490
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

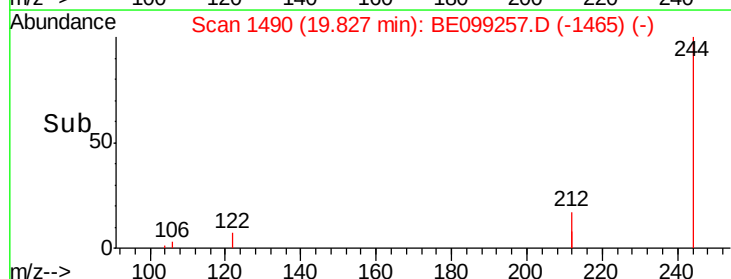
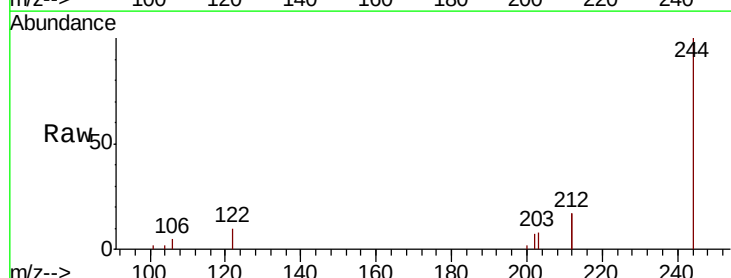
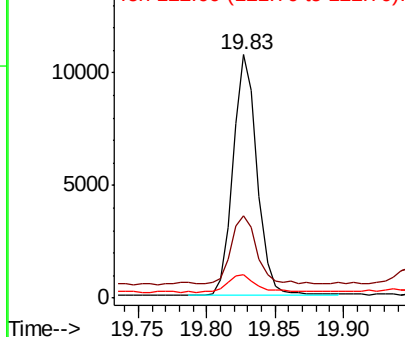
Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	34.0	22.7	34.1
122	9.8	5.8	8.6

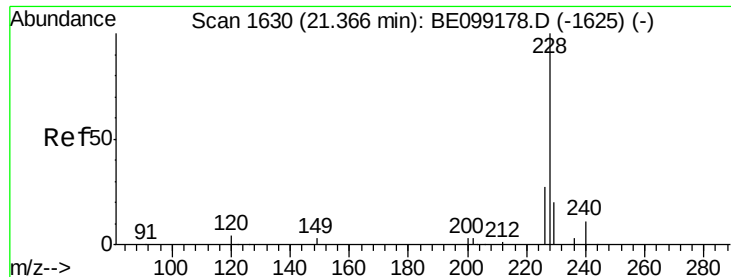
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





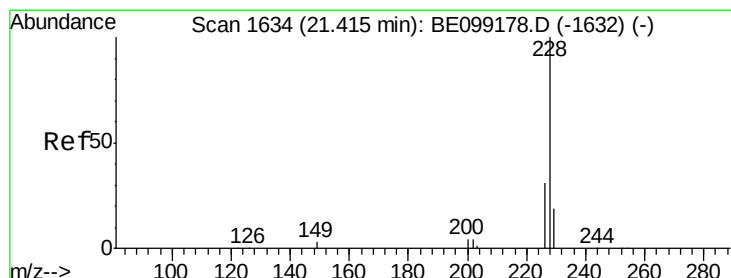
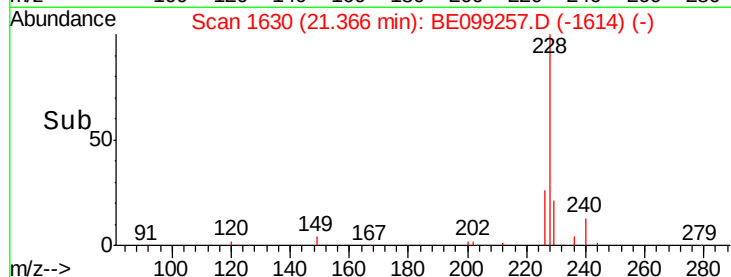
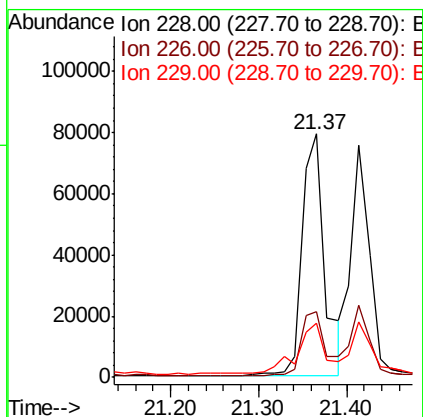
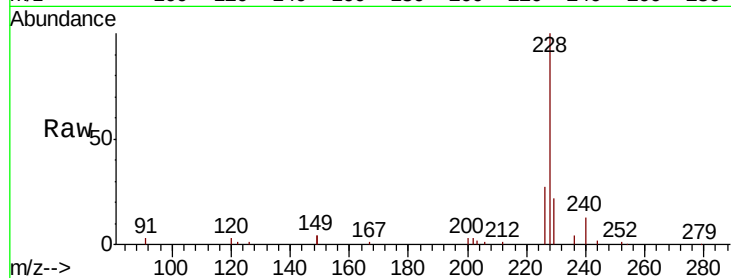
#30
Benzo(a)anthracene
Concen: 1.011 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	22.3	15.9	23.9

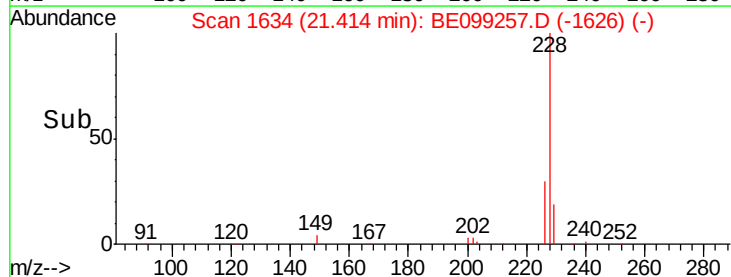
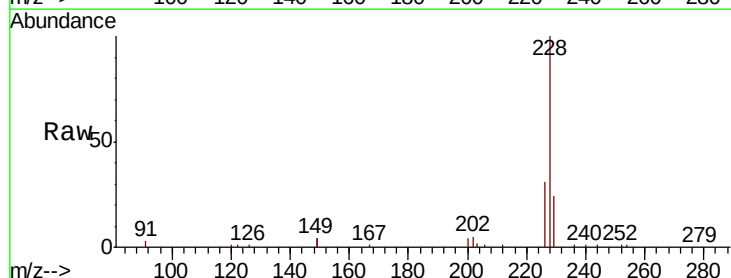
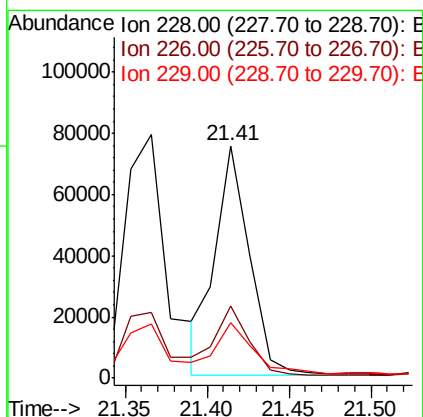
Manual Integrations
APPROVED

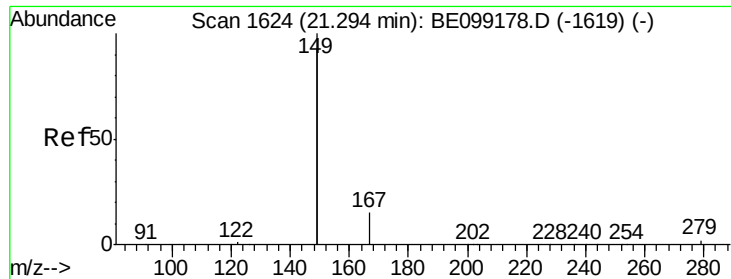
Sohil
4/1/2019 5:45:09 PM



#31
Chrysene
Concen: 0.734 ng m
RT: 21.41 min Scan# 1634
Delta R.T. -0.00 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.8	37.2
229	23.9	15.4	23.0





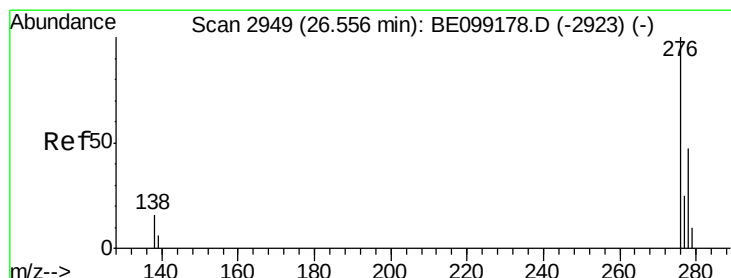
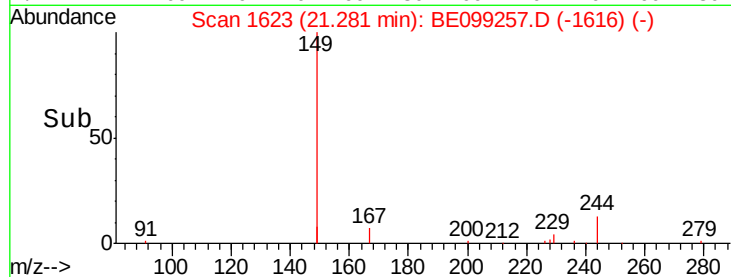
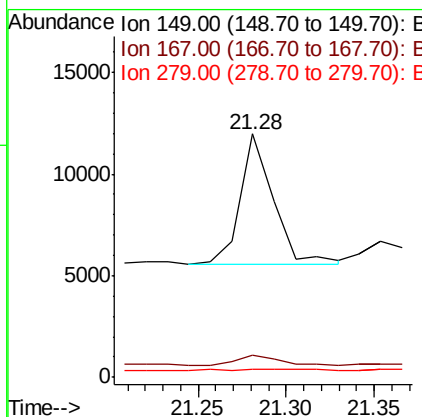
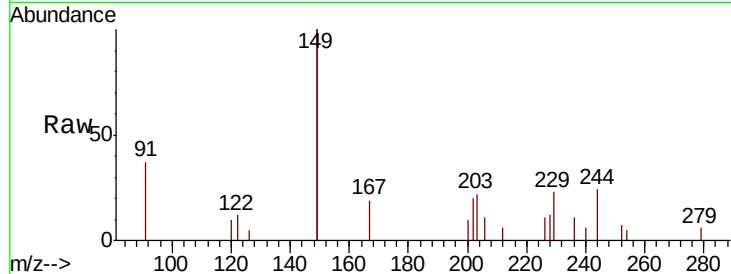
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.050 ng
 RT: 21.28 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
149	100		
167	9.7	5.9	8.9#
279	0.0	1.0	1.6#

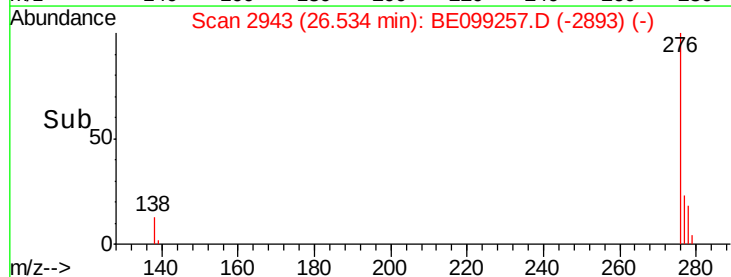
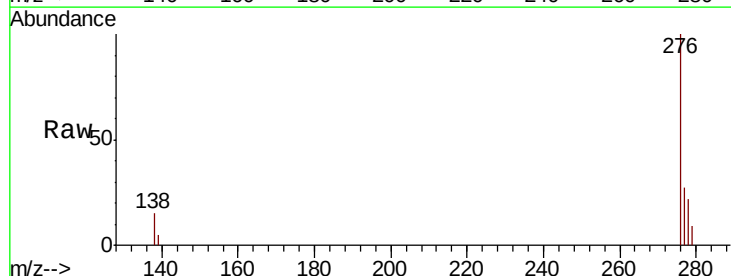
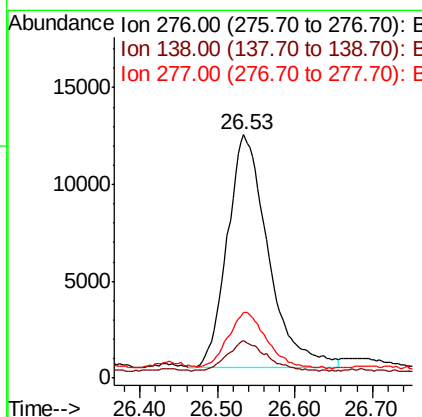
Manual Integrations
 APPROVED

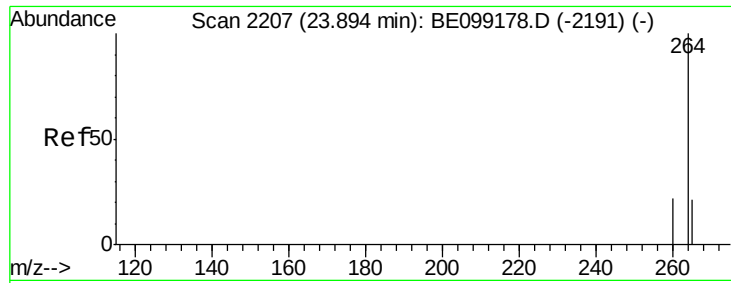
Sohil
 4/1/2019 5:45:09 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.312 ng
 RT: 26.53 min Scan# 2943
 Delta R.T. -0.02 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
276	100		
138	11.8	12.9	19.3#
277	21.8	18.3	27.5





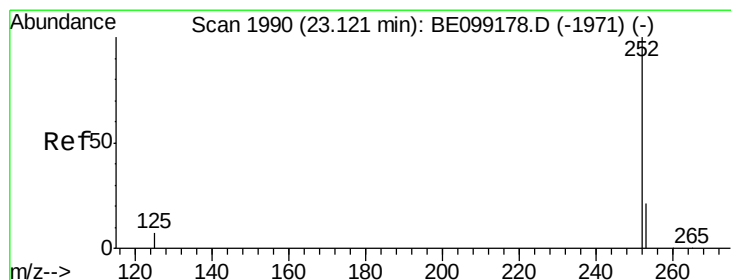
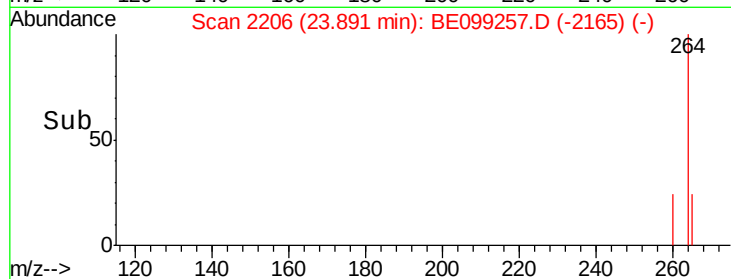
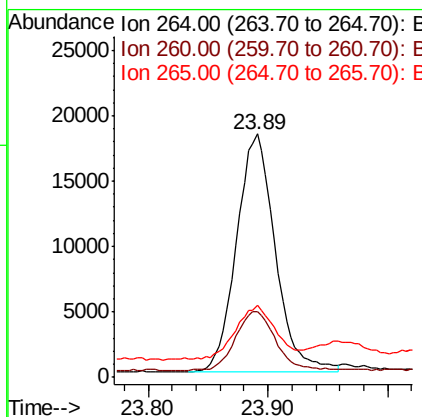
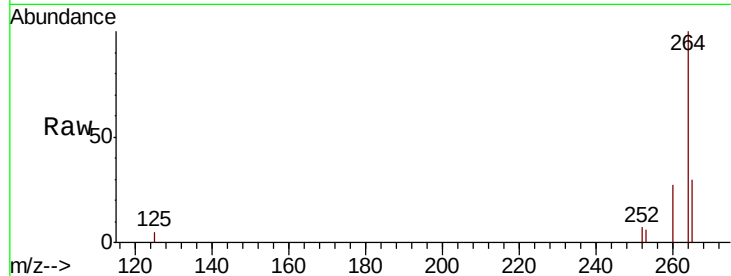
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.89 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.2	18.2	27.2
265	29.6	21.8	32.8

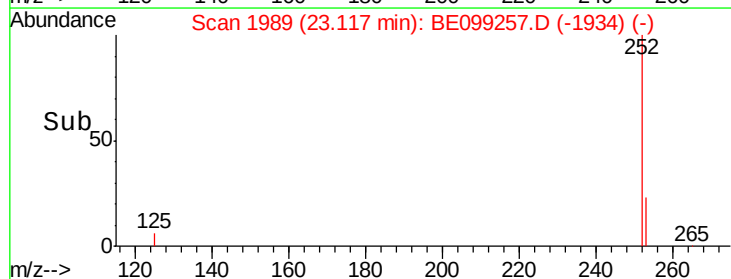
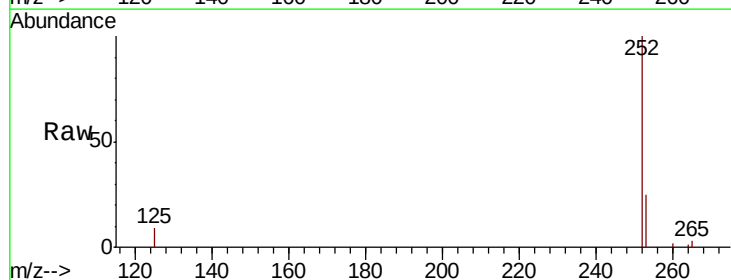
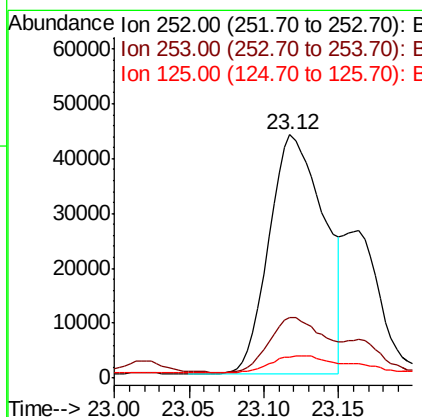
Manual Integrations
 APPROVED

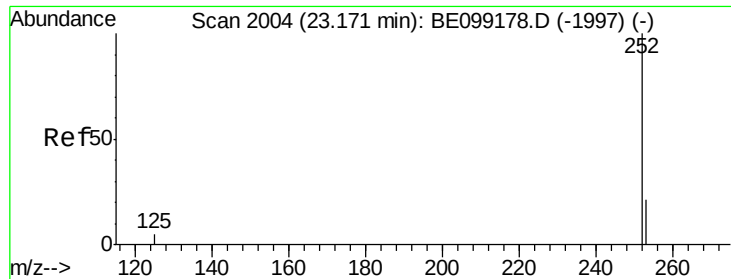
Sohil
 4/1/2019 5:45:09 PM



#35
Benzo(b)fluoranthene
 Concen: 0.826 ng
 RT: 23.12 min Scan# 1989
 Delta R.T. -0.00 min
 Lab File: BE099257.D
 Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.8	26.8
125	8.8	6.1	9.1





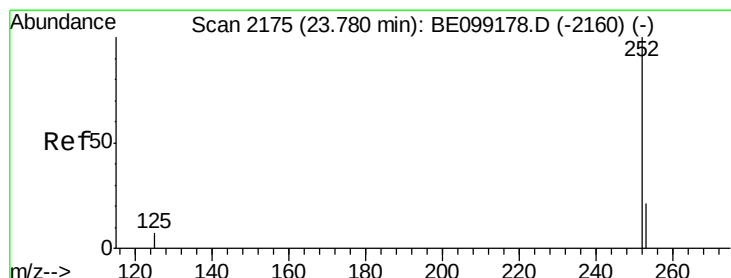
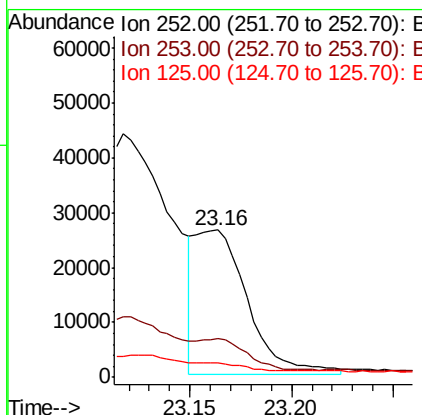
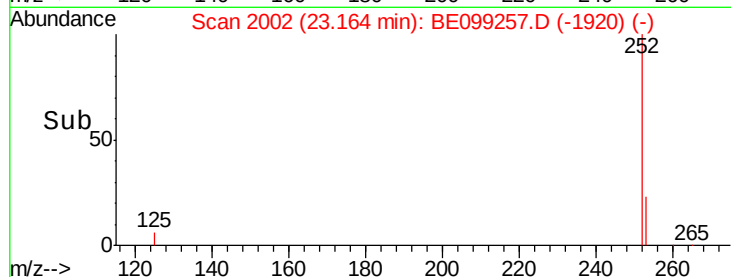
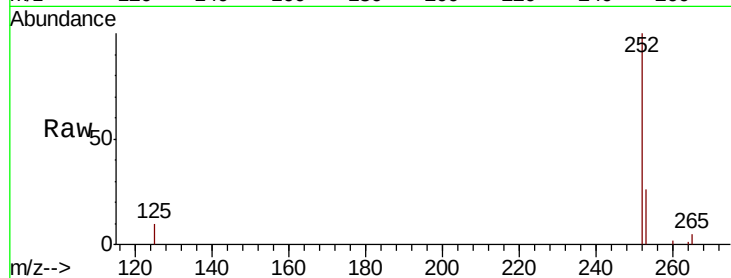
#36
Benzo(k)fluoranthene
Concen: 0.332 ng m
RT: 23.16 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.8	26.6
125	9.8	5.9	8.9

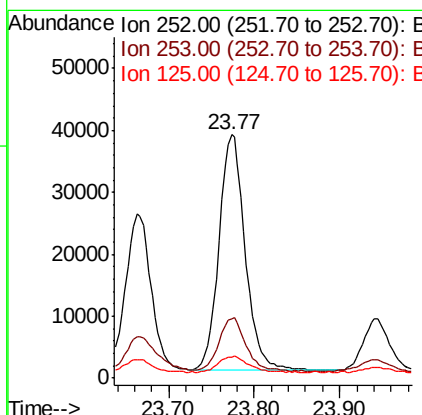
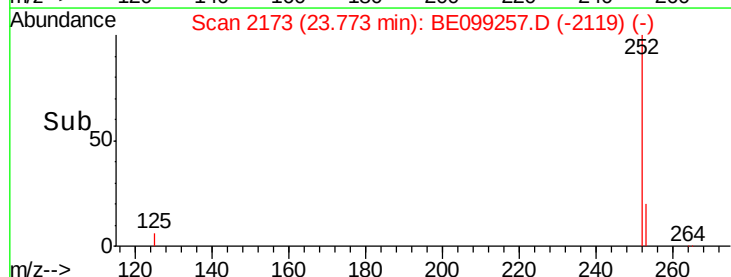
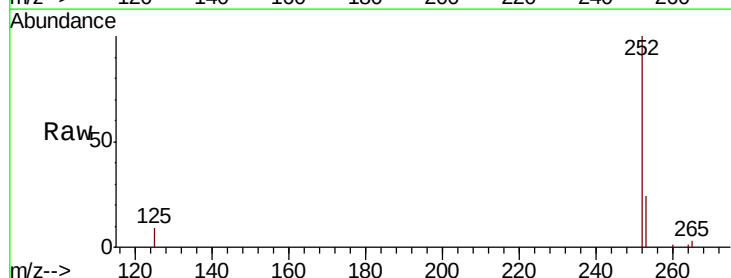
Manual Integrations
APPROVED

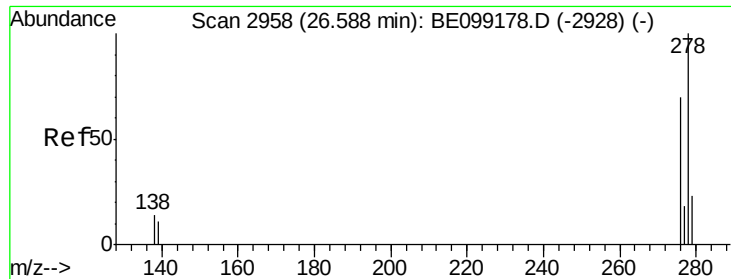
Sohil
4/1/2019 5:45:09 PM



#37
Benzo(a)pyrene
Concen: 0.645 ng
RT: 23.77 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.1	27.1
125	8.7	6.8	10.2





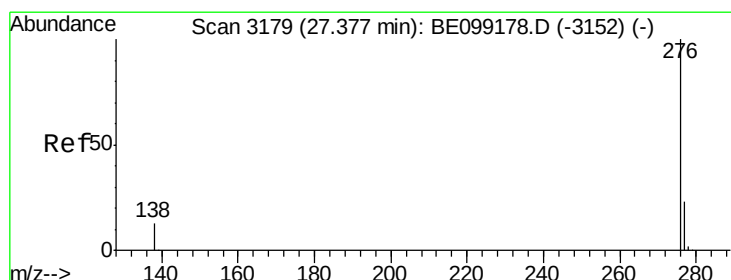
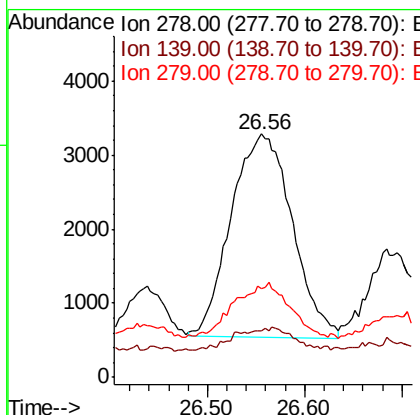
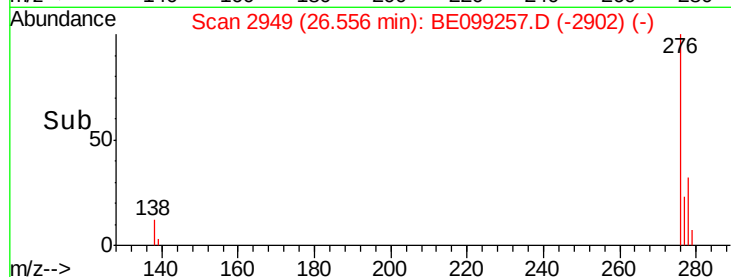
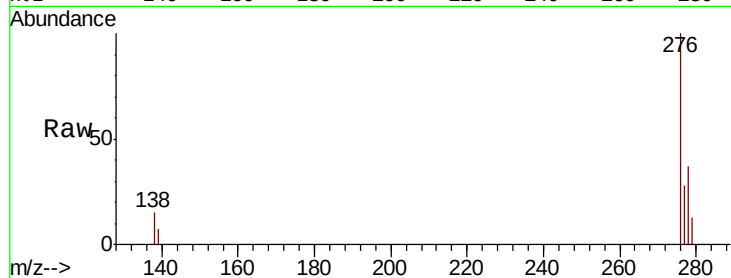
#38
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 26.56 min Scan# 2949
Delta R.T. -0.03 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW024-032519

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.9	9.5	14.3#
279	36.6	19.1	28.7#

Manual Integrations
APPROVED

Sohil
4/1/2019 5:45:09 PM



#39
Benzo(g,h,i)perylene
Concen: 0.367 ng
RT: 27.35 min Scan# 3172
Delta R.T. -0.03 min
Lab File: BE099257.D
Acq: 29 Mar 2019 16:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.0	28.4
138	14.5	11.1	16.7

