

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032219\
 Data File : BE099091.D
 Acq On : 22 Mar 2019 22:02
 Operator : JU/SJ
 Sample : K1948-10
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Manual Integrations
 APPROVED

Sohil
 3/25/2019 12:12:03 PM

Quant Time: Mar 23 01:33:40 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032219.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Mar 23 00:46:37 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	3319	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	12671	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	8212	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	22928	0.40	ng	0.00
27) Chrysene-d12	21.39	240	34411	0.40	ng	0.00
34) Perylene-d12	23.90	264	39038	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	4272	0.43	ng	0.00
5) Phenol-d6	7.00	99	6137	0.43	ng	0.00
8) Nitrobenzene-d5	9.16	82	315	0.06	ng	0.17
11) 2-Methylnaphthalene-d10	12.22	152	8638	0.38	ng	-0.02
14) 2,4,6-Tribromophenol	15.96	330	1343	0.56	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	11897	0.36	ng	0.00
25) Fluoranthene-d10	19.24	212	111209	0.36	ng	0.00
29) Terphenyl-d14	19.84	244	18611	0.26	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.68	128	3221	0.022	ng	# 94
16) Acenaphthylene	14.21	152	2907	0.066	ng	97
17) Acenaphthene	14.54	154	1541	0.059	ng	97
18) Fluorene	15.51	166	3210	0.085	ng	94
21) Hexachlorobenzene	16.52	284	399	0.034	ng	# 89
23) Phenanthrene	17.25	178	63171	0.928	ng	99
24) Anthracene	17.35	178	12438	0.193	ng	# 95
26) Fluoranthene	19.27	202	124437	1.299	ng	98
28) Pyrene	19.63	202	111141	0.952	ng	95
30) Benzo(a)anthracene	21.37	228	76663	0.632	ng	100
31) Chrysene	21.43	228	72356	0.597	ng	98
32) Bis(2-ethylhexyl)phthalate	21.30	149	38045	0.242	ng	98
33) Indeno(1,2,3-cd)pyrene	26.56	276	37487	0.288	ng	99
35) Benzo(b)fluoranthene	23.13	252	89656	0.664	ng	99
36) Benzo(k)fluoranthene	23.17	252	35794m	0.270	ng	
37) Benzo(a)pyrene	23.79	252	62270	0.499	ng	97
38) Dibenzo(a,h)anthracene	26.58	278	10400	0.086	ng	# 91
39) Benzo(g,h,i)perylene	27.38	276	34259	0.275	ng	98

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

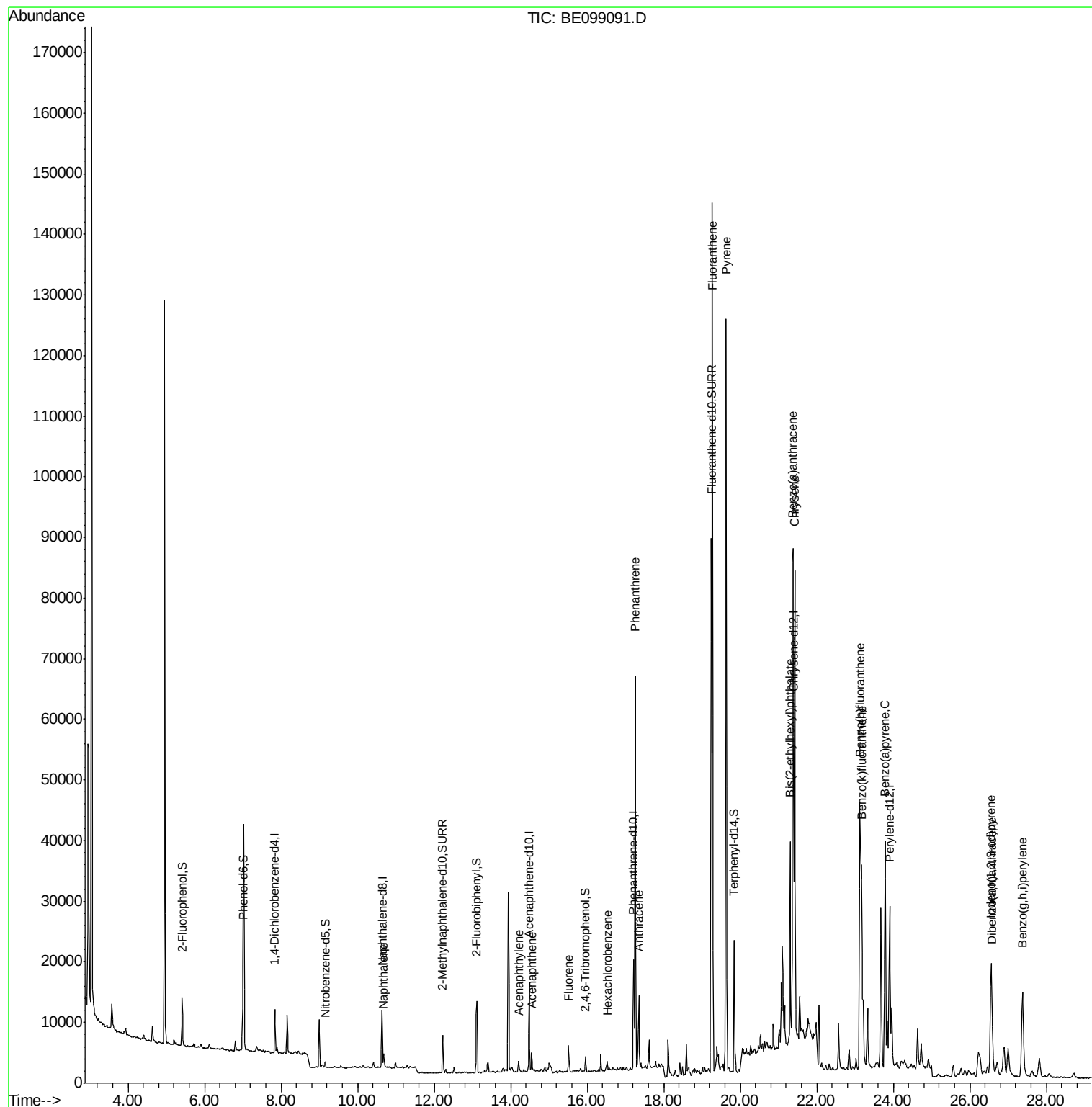
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032219\
Data File : BE099091.D
Acq On : 22 Mar 2019 22:02
Operator : JU/SJ
Sample : K1948-10
Misc :
ALS Vial : 9 Sample Multiplier: 1

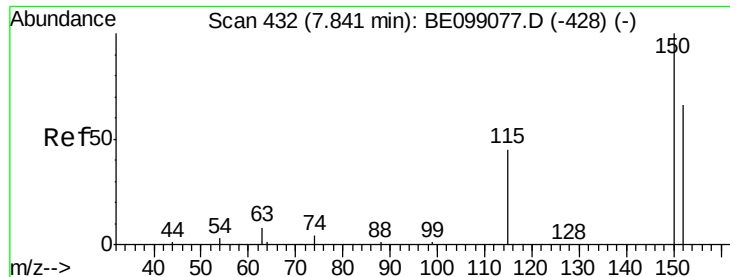
Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM

Quant Time: Mar 23 01:33:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 23 00:46:37 2019
Response via : Initial Calibration

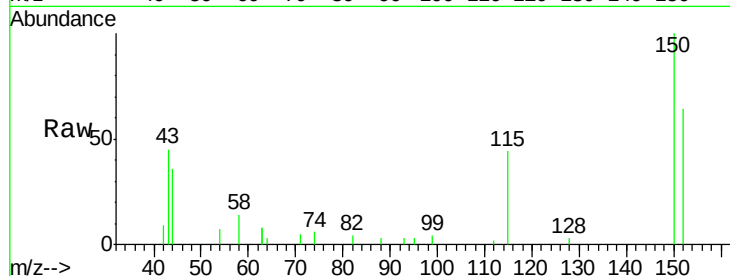




#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

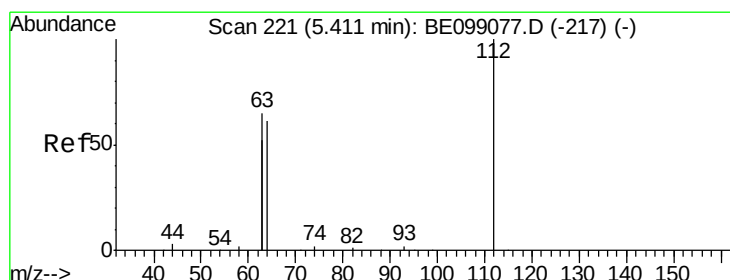
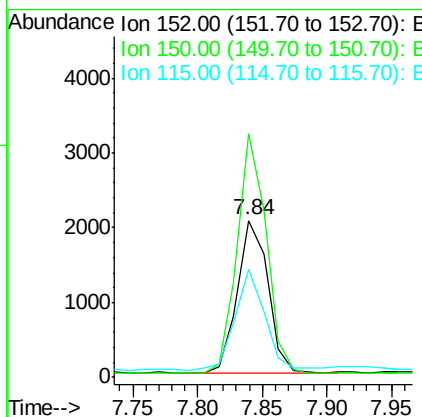
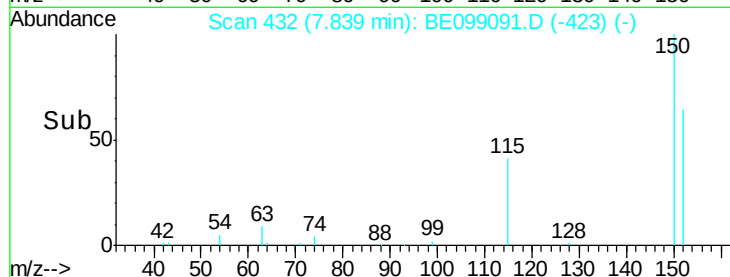
Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319



Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.0	122.5	183.7
115	68.5	57.4	86.2

Manual Integrations
APPROVED

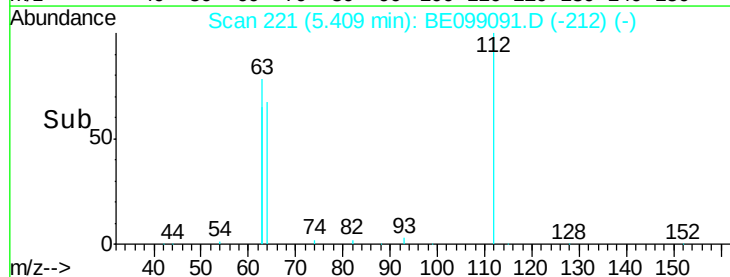
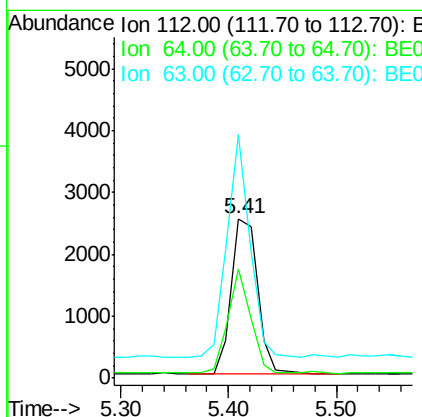
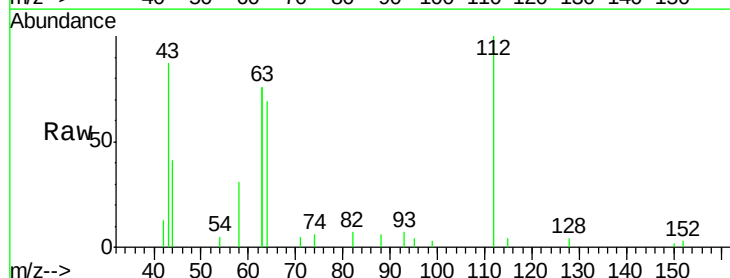
Sohil
3/25/2019 12:12:03 PM

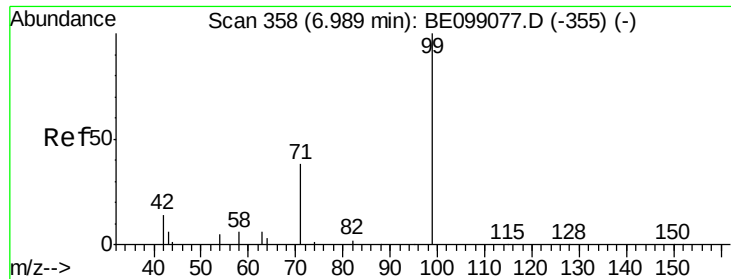


#4

2-Fluorophenol
Concen: 0.432 ng
RT: 5.41 min Scan# 221
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	57.9	86.9#
63	124.4	158.3	237.5#





#5

Phenol-d6

Concen: 0.431 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.01 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

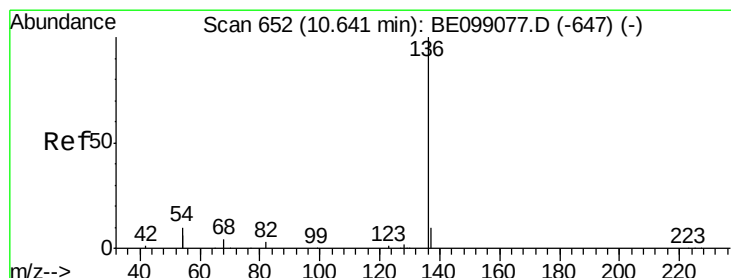
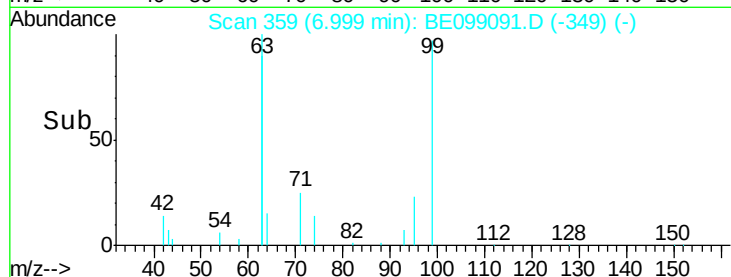
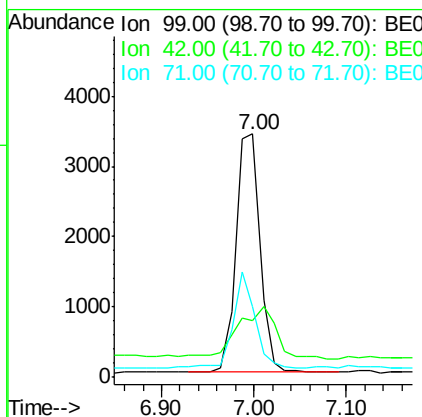
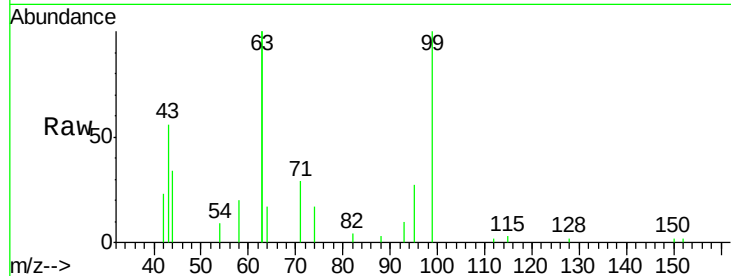
ClientSampleId :

INV-025-SW04-031319

Tgt Ion:	99	Resp:	6137
Ion Ratio	Lower	Upper	
99	100		
42	34.8	24.2	36.2
71	0.0	35.7	53.5#

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#7

Naphthalene-d8

Concen: 0.400 ng

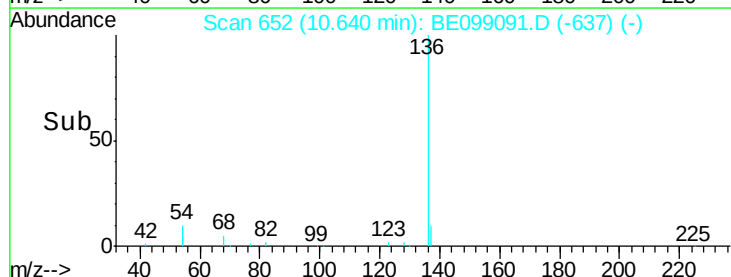
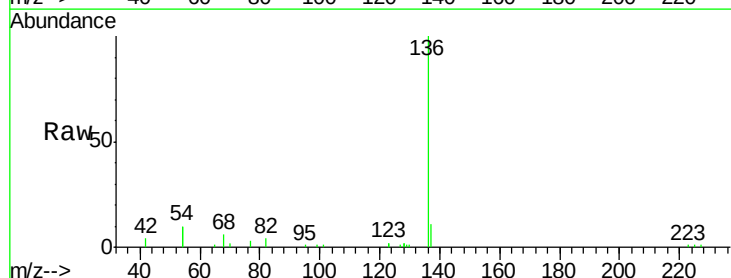
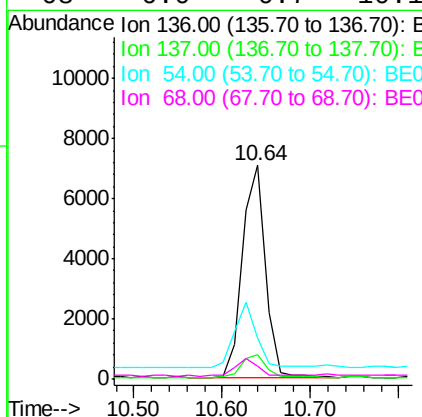
RT: 10.64 min Scan# 652

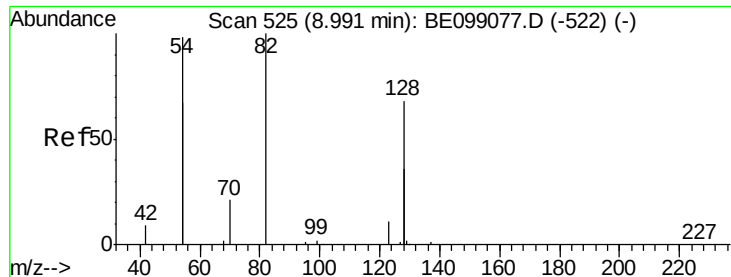
Delta R.T. -0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt Ion:	136	Resp:	12671
Ion Ratio	Lower	Upper	
136	100		
137	11.3	11.4	17.0#
54	19.5	39.3	58.9#
68	6.0	6.7	10.1#





#8

Nitrobenzene-d5

Concen: 0.057 ng

RT: 9.16 min Scan# 538

Delta R.T. 0.17 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

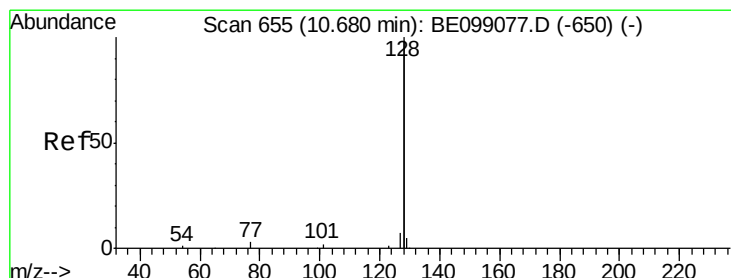
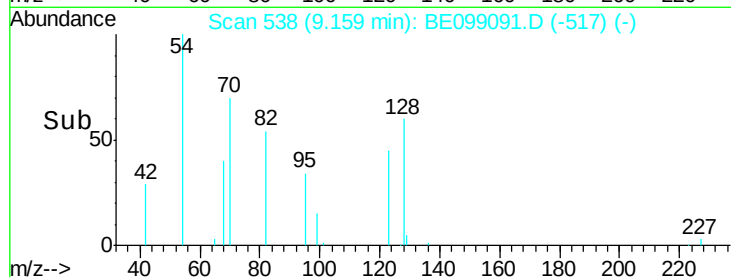
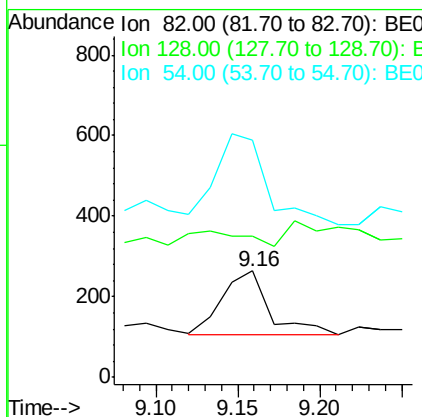
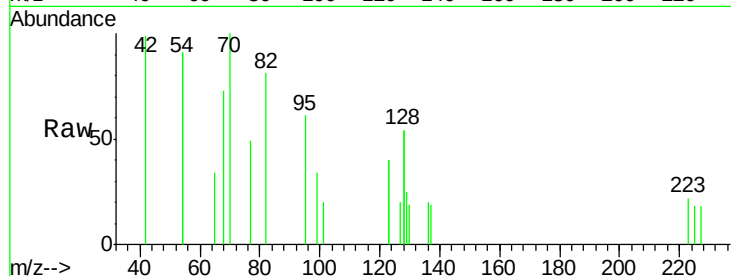
ClientSampleId :

INV-025-SW04-031319

Tgt Ion:	82	Resp:	315
Ion Ratio	Lower	Upper	
82	100		
128	132.6	123.8	185.8
54	222.7	203.4	305.2

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#9

Naphthalene

Concen: 0.022 ng

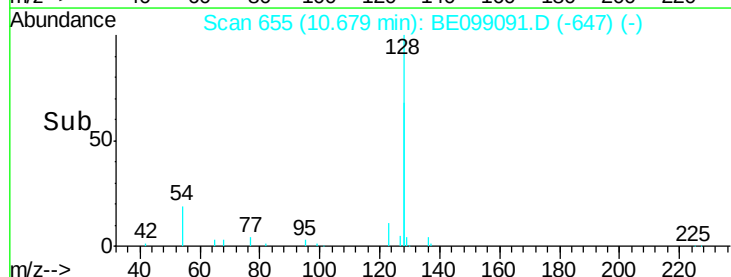
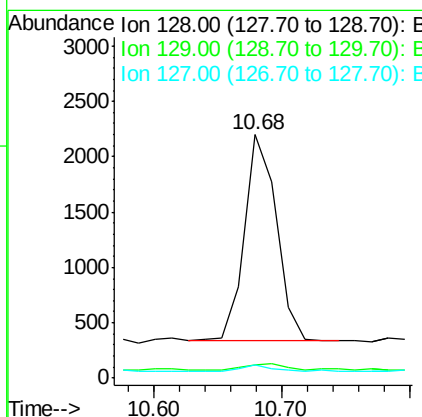
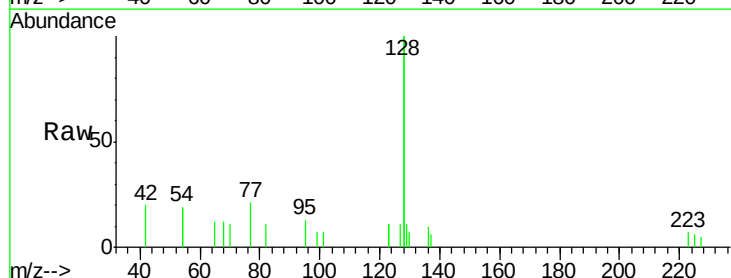
RT: 10.68 min Scan# 655

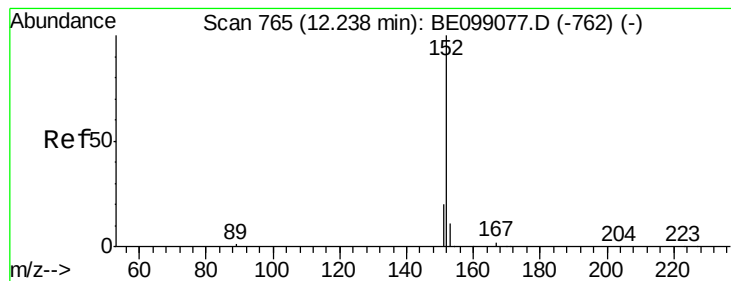
Delta R.T. -0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt Ion:	128	Resp:	3221
Ion Ratio	Lower	Upper	
128	100		
129	5.5	2.6	4.0#
127	5.7	3.1	4.7#





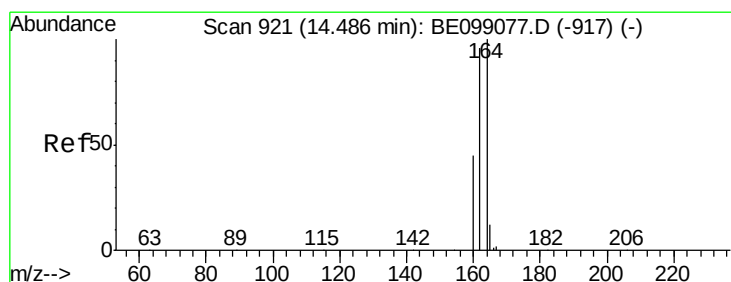
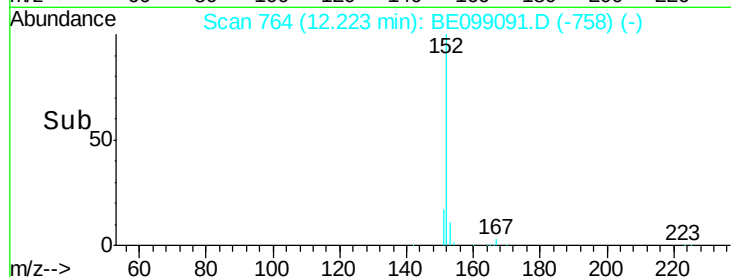
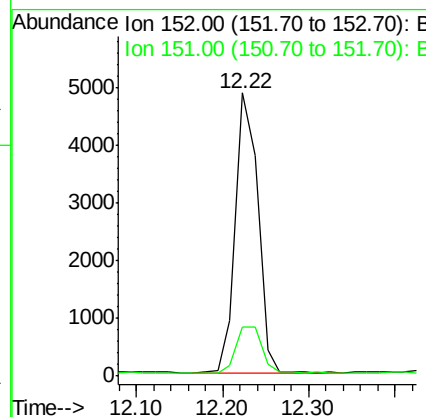
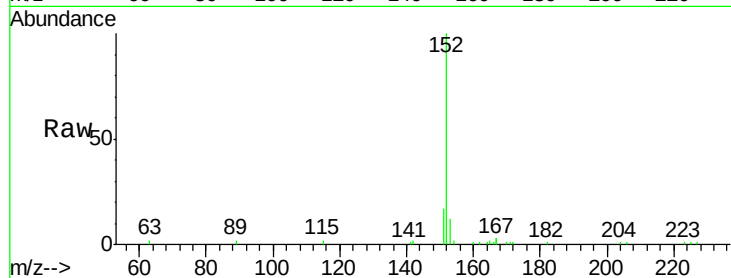
#11
 2-Methylnaphthalene-d10
 Concen: 0.378 ng
 RT: 12.22 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Tgt Ion:152 Resp: 8638
 Ion Ratio Lower Upper
 152 100
 151 19.6 16.5 24.7

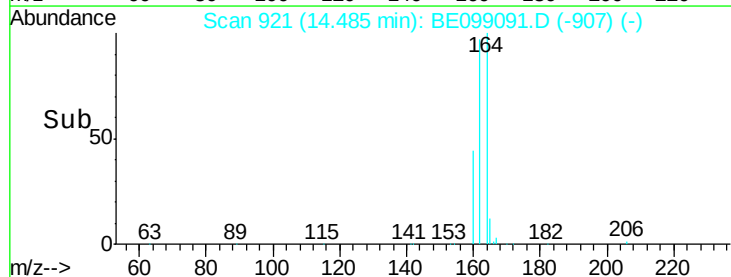
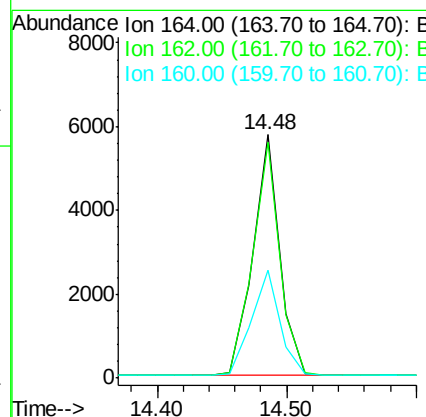
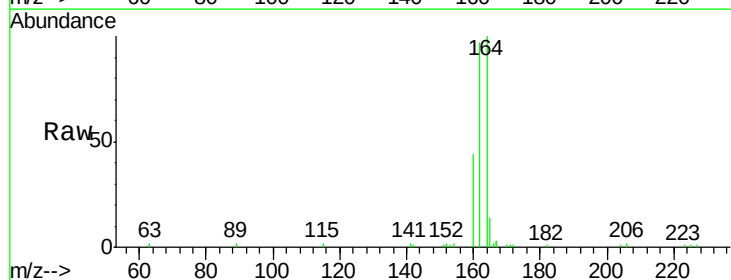
Manual Integrations
 APPROVED

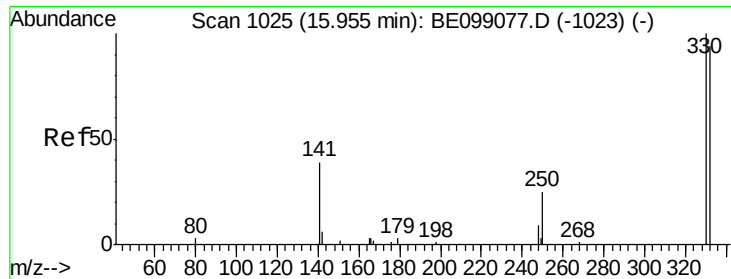
Sohil
 3/25/2019 12:12:03 PM



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.48 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Tgt Ion:164 Resp: 8212
 Ion Ratio Lower Upper
 164 100
 162 96.8 80.2 120.2
 160 44.3 37.8 56.8





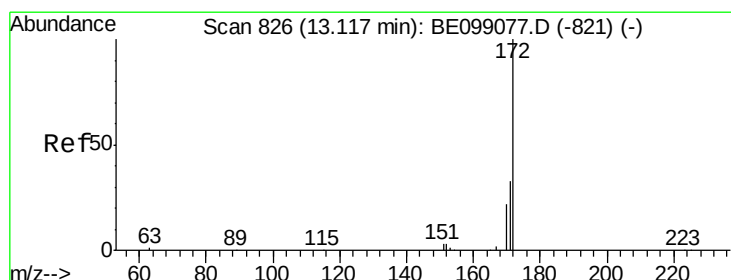
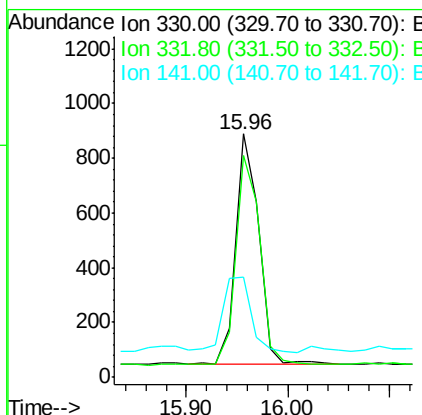
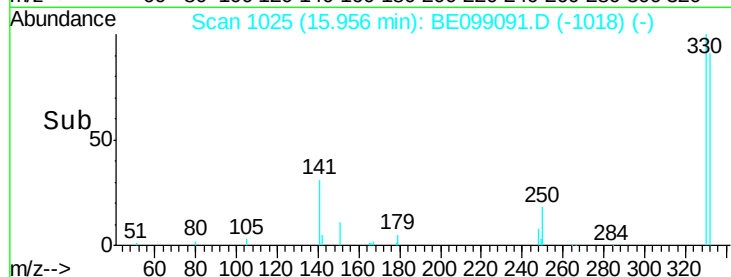
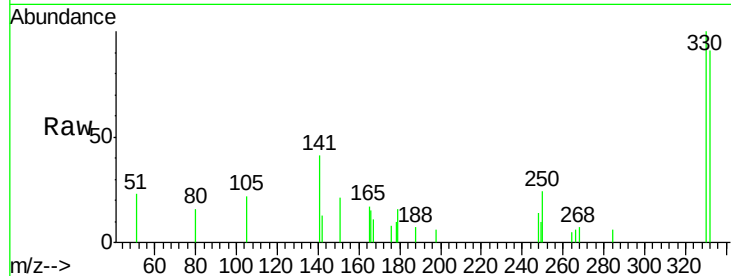
#14
 2,4,6-Tribromophenol
 Concen: 0.556 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.2	77.6	116.4
141	40.0	31.0	46.4

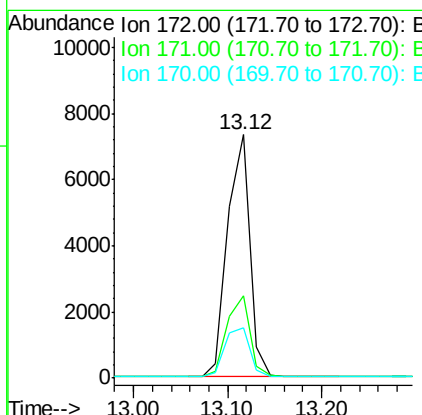
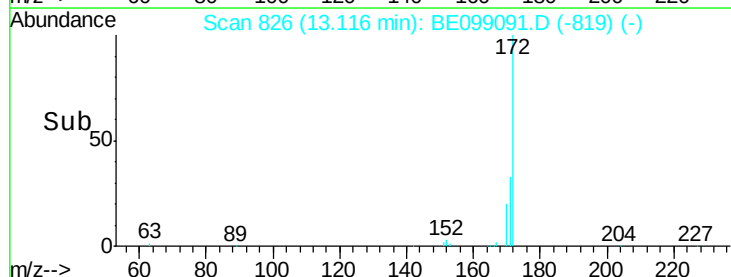
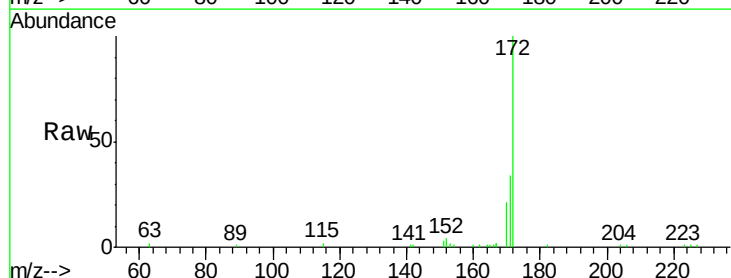
Manual Integrations
 APPROVED

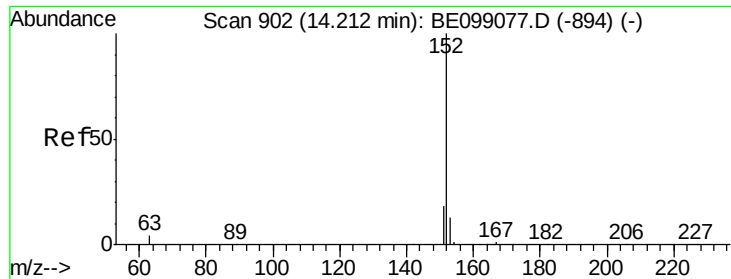
Sohil
 3/25/2019 12:12:03 PM



#15
 2-Fluorobiphenyl
 Concen: 0.364 ng
 RT: 13.12 min Scan# 826
 Delta R.T. -0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.8	28.0	42.0
170	20.9	17.7	26.5





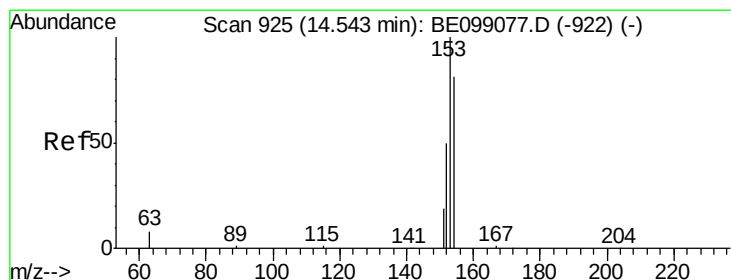
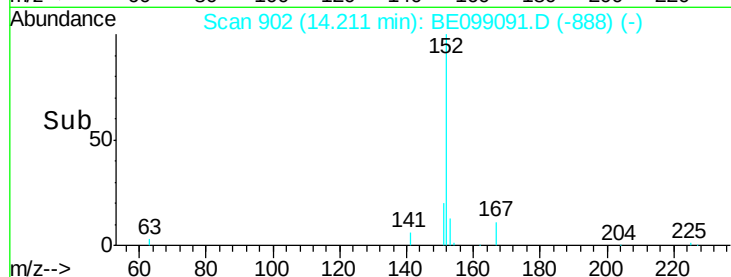
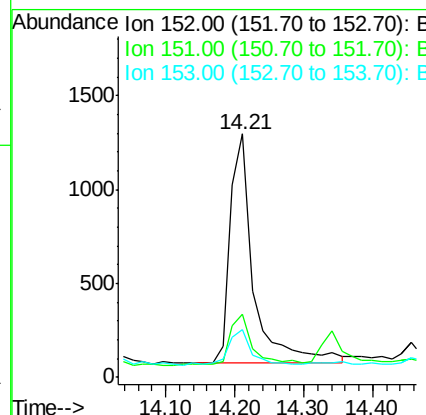
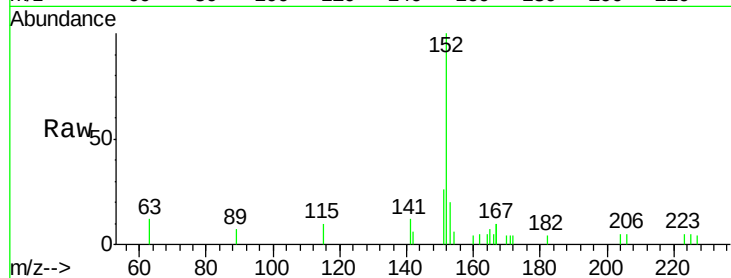
#16
Acenaphthylene
Concen: 0.066 ng
RT: 14.21 min Scan# 902
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.7	17.0	25.6
153	15.4	11.2	16.8

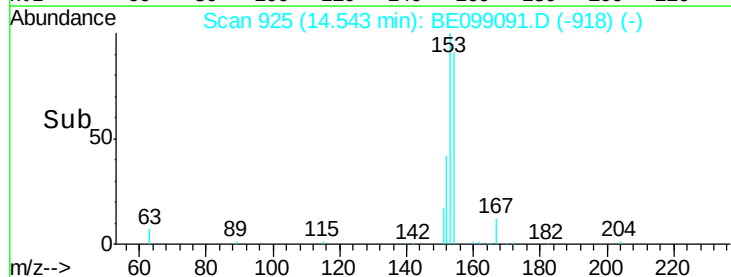
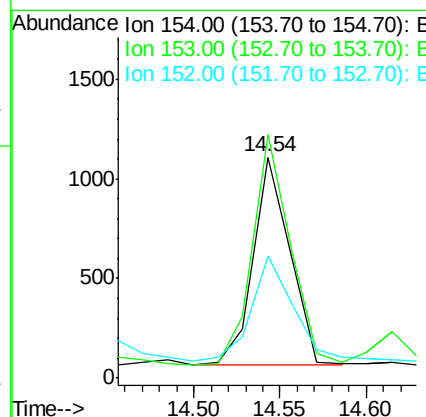
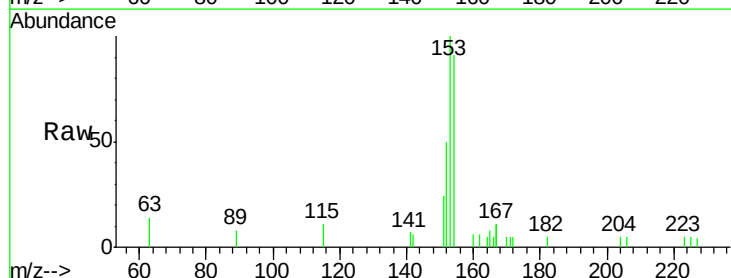
Manual Integrations
APPROVED

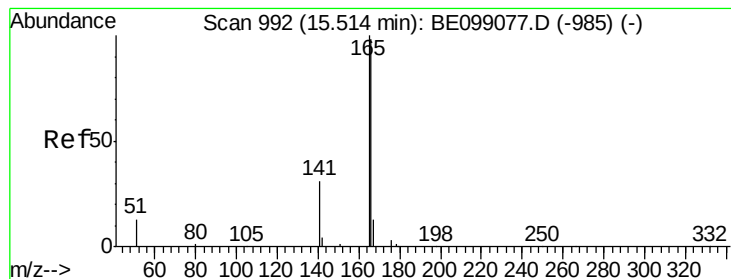
Sohil
3/25/2019 12:12:03 PM



#17
Acenaphthene
Concen: 0.059 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.2	94.2	141.4
152	57.6	45.0	67.4





#18

Fluorene

Concen: 0.085 ng

RT: 15.51 min Scan# 992

Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

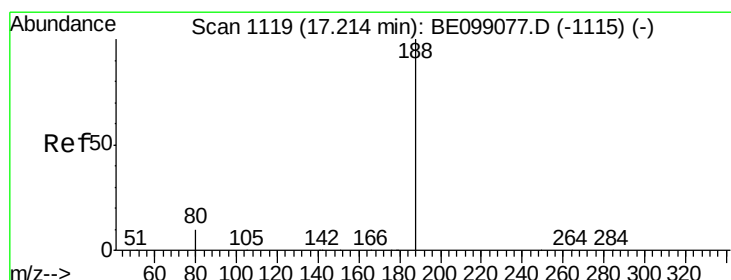
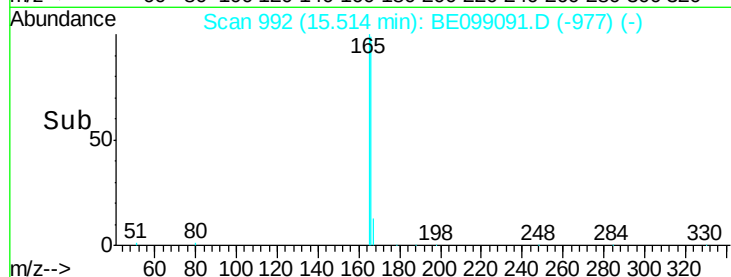
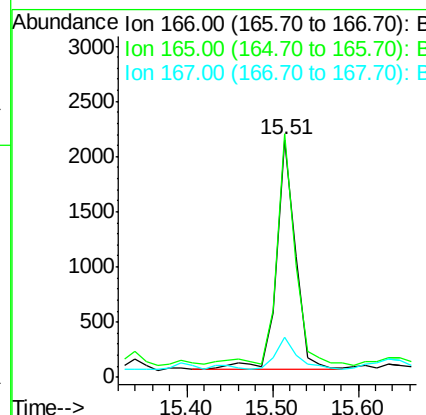
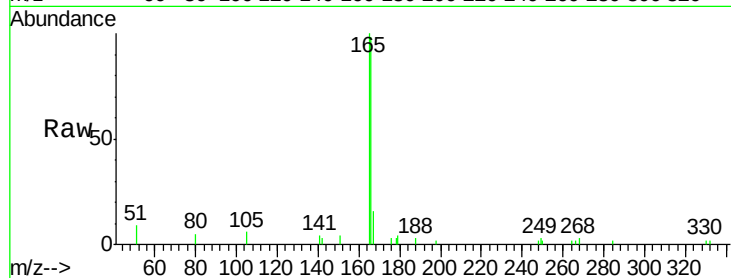
ClientSampleId :

INV-025-SW04-031319

Tgt	Ion	Resp	Lower	Upper
166	100			
165	93.1	79.3	118.9	
167	15.7	10.5	15.7	

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#19

Phenanthrene-d10

Concen: 0.400 ng

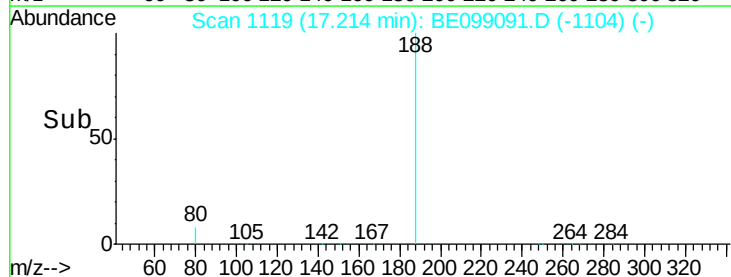
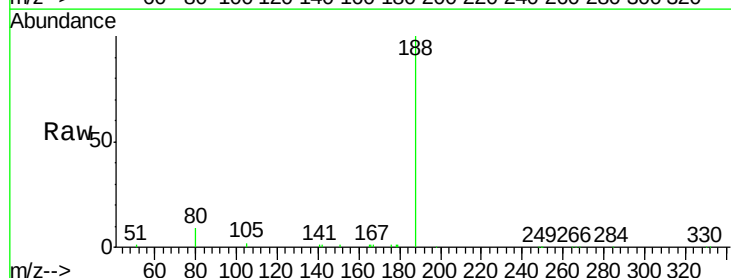
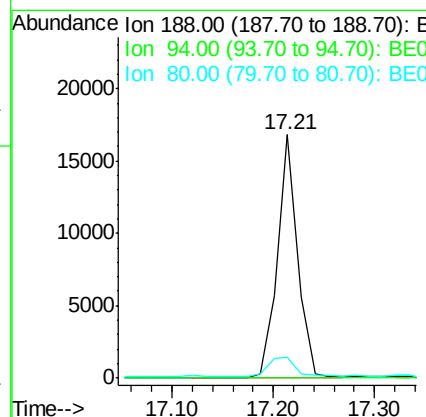
RT: 17.21 min Scan# 1119

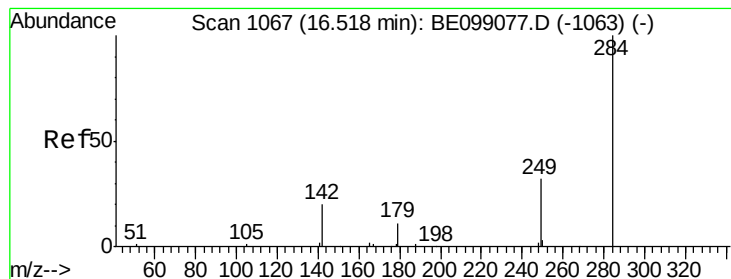
Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt	Ion	Resp	Lower	Upper
188	100			
94	0.0	0.0	0.0	
80	8.7	6.3	9.5	





#21

Hexachlorobenzene

Concen: 0.034 ng

RT: 16.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

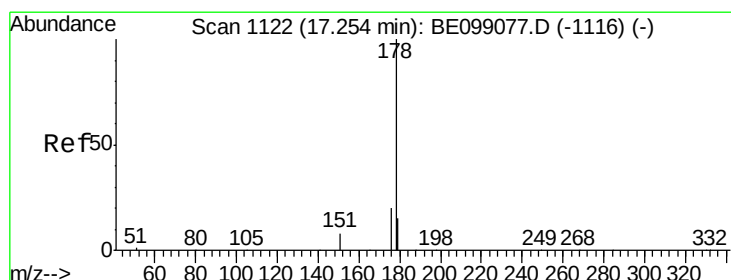
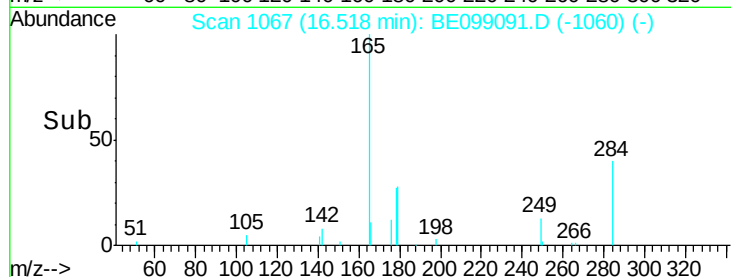
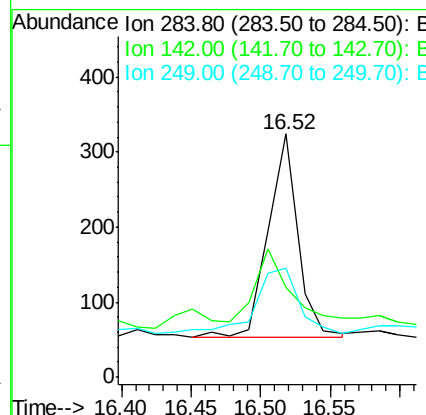
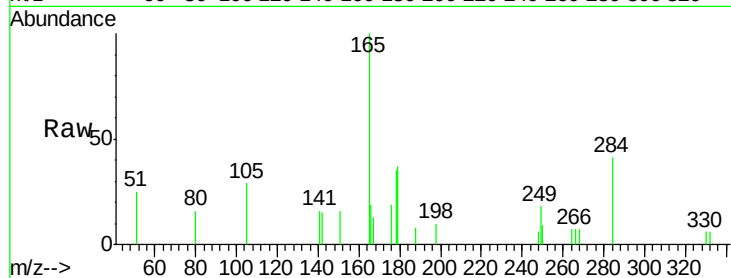
ClientSampleId :

INV-025-SW04-031319

Tgt Ion:	284	Resp:	399
Ion Ratio	Lower	Upper	
284	100		
142	41.6	28.7	43.1
249	44.6	29.6	44.4

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#23

Phenanthrene

Concen: 0.928 ng

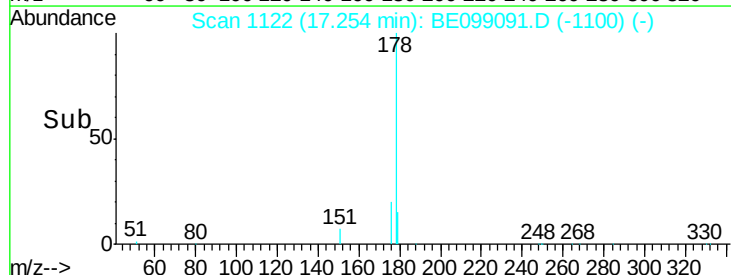
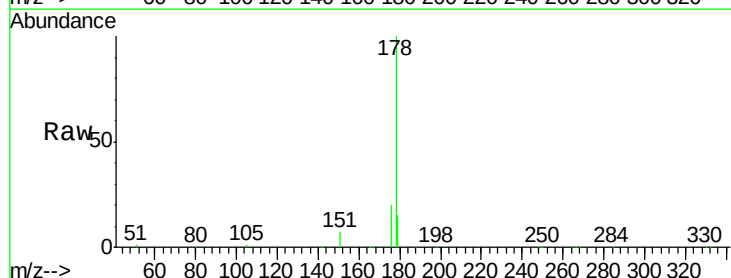
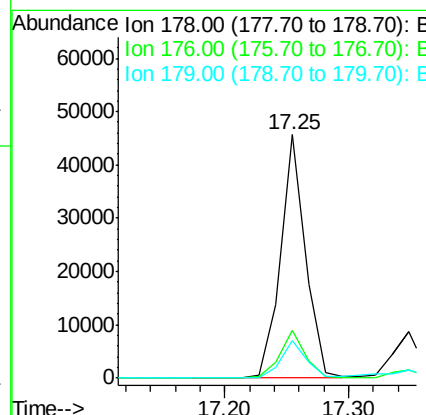
RT: 17.25 min Scan# 1122

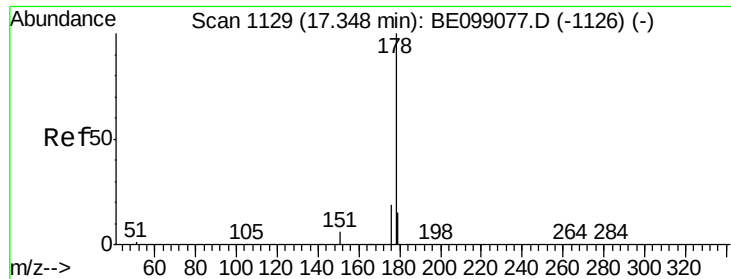
Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt Ion:	178	Resp:	63171
Ion Ratio	Lower	Upper	
178	100		
176	19.4	16.0	24.0
179	15.3	12.1	18.1





#24

Anthracene

Concen: 0.193 ng

RT: 17.35 min Scan# 1129

Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

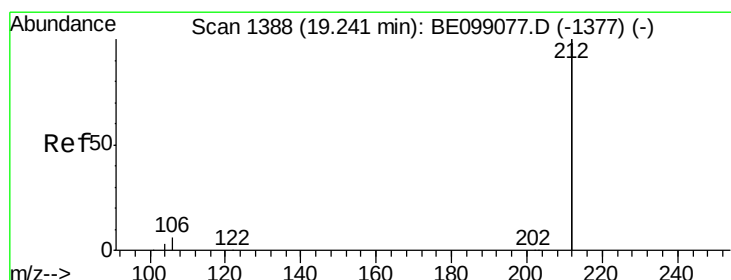
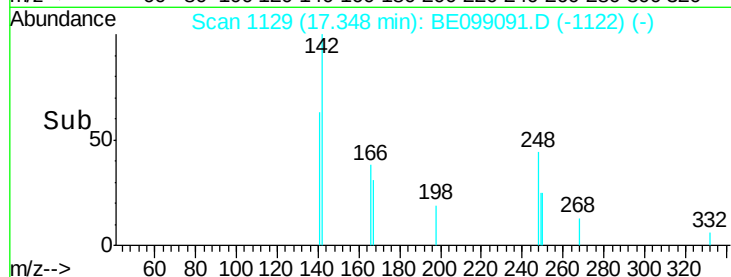
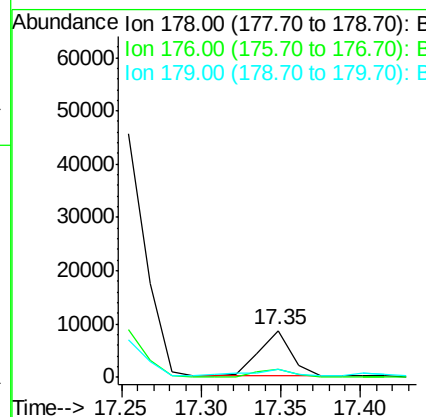
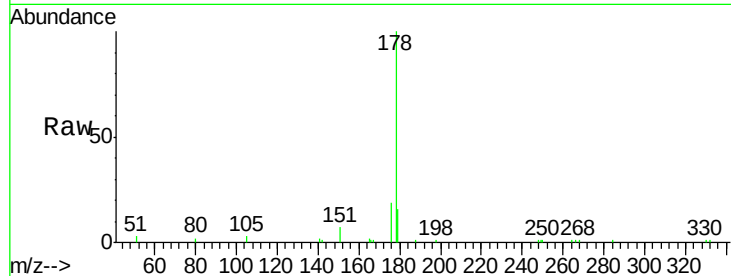
ClientSampleId :

INV-025-SW04-031319

Tgt Ion:	178	Resp:	12438
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.4	23.0
179	19.6	12.2	18.4

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#25

Fluoranthene-d10

Concen: 0.364 ng

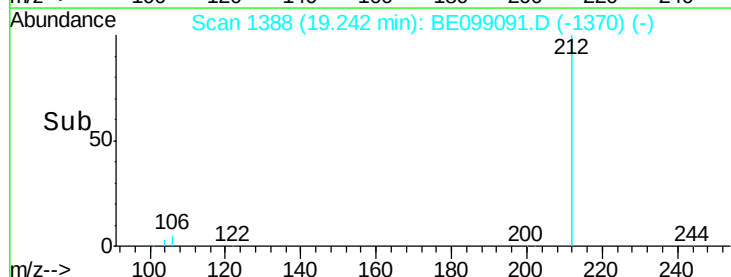
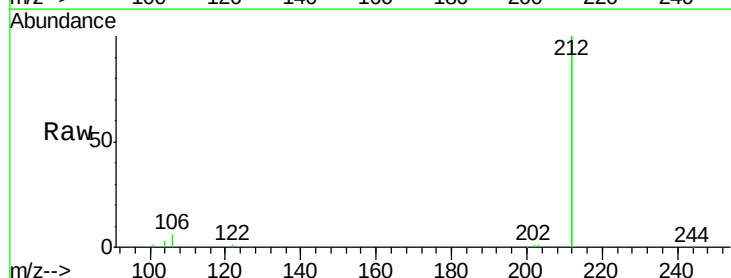
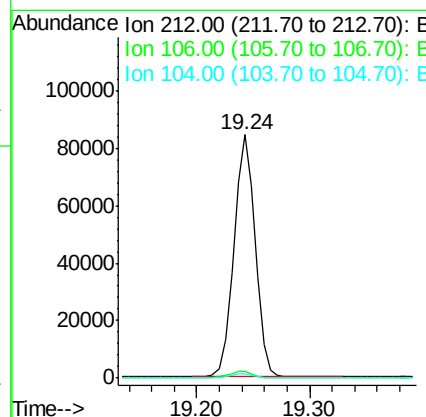
RT: 19.24 min Scan# 1388

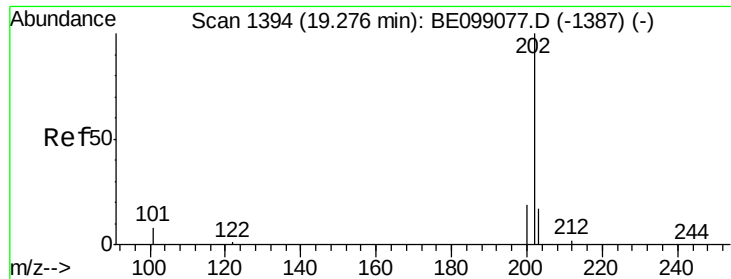
Delta R.T. 0.00 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt Ion:	212	Resp:	111209
Ion Ratio	Lower	Upper	
212	100		
106	2.9	1.8	2.8
104	1.6	1.0	1.6





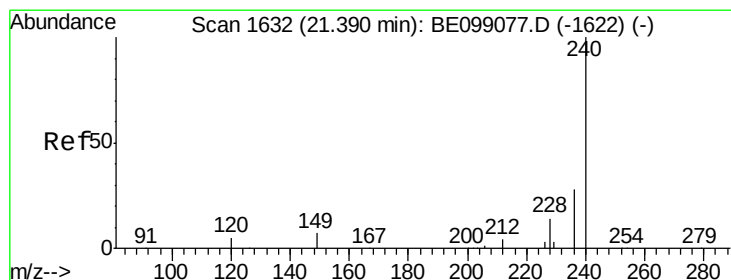
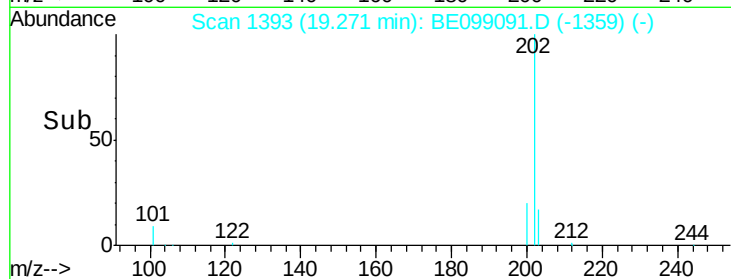
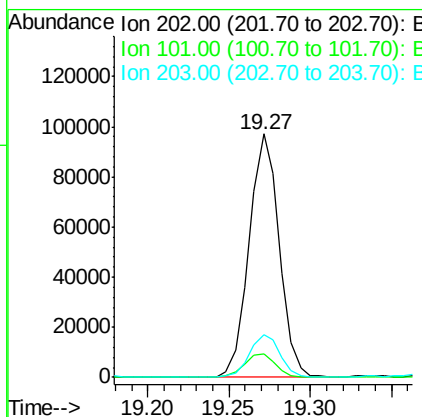
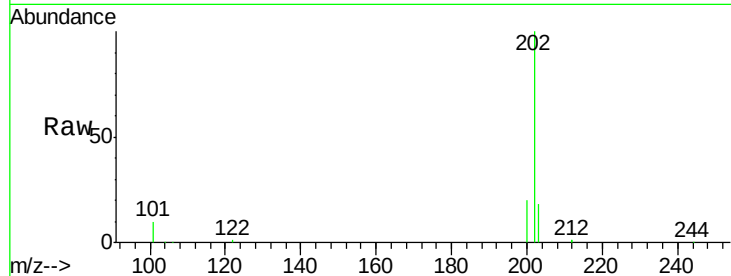
#26
Fluoranthene
Concen: 1.299 ng
RT: 19.27 min Scan# 1393
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.3	10.9
203	17.5	13.4	20.2

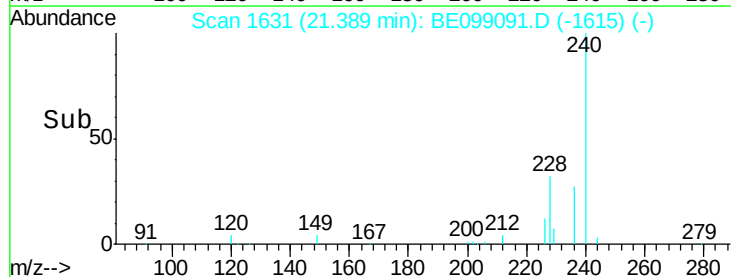
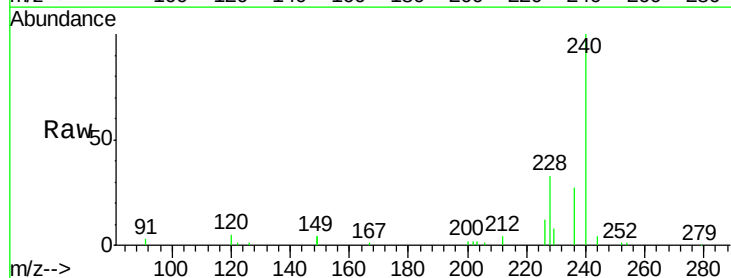
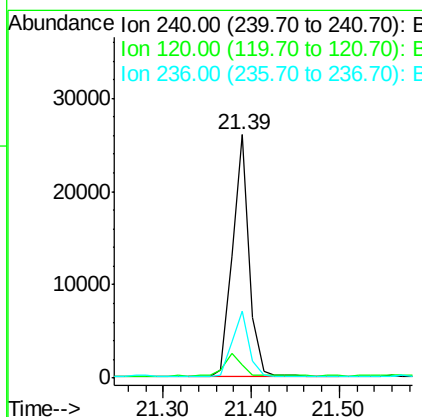
Manual Integrations
APPROVED

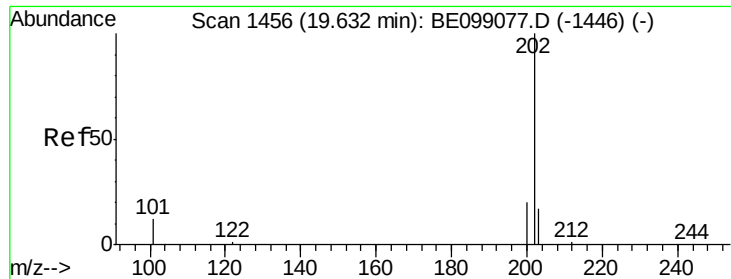
Sohil
3/25/2019 12:12:03 PM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.39 min Scan# 1631
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.2	5.0	7.4
236	27.3	22.7	34.1





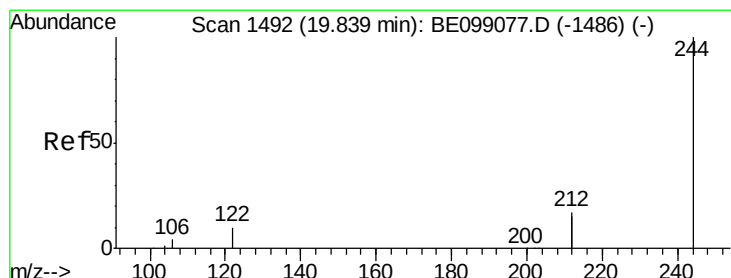
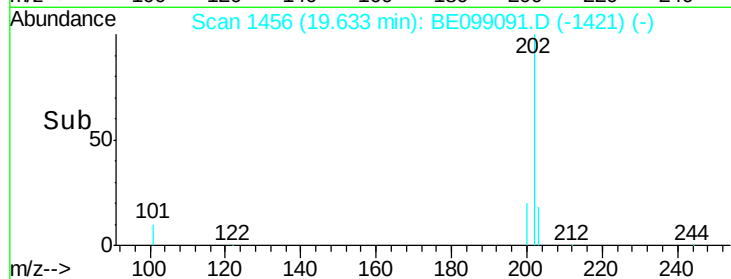
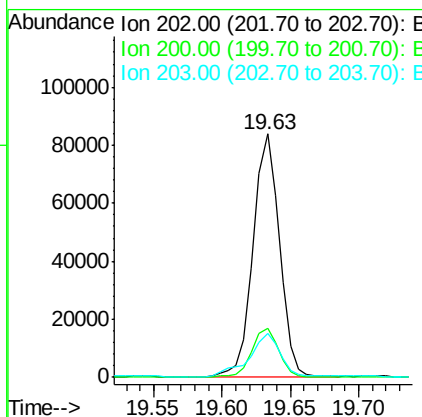
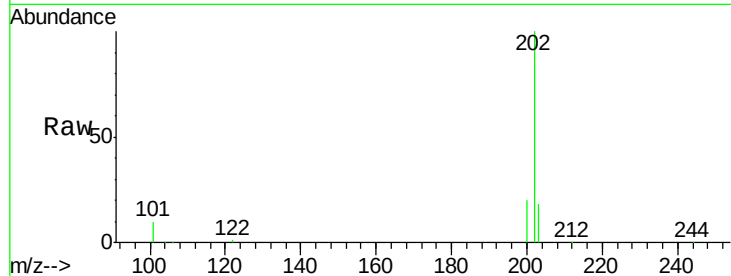
#28
 Pyrene
 Concen: 0.952 ng
 RT: 19.63 min Scan# 1456
 Delta R.T. 0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.4	17.0	25.6
203	21.2	14.2	21.2

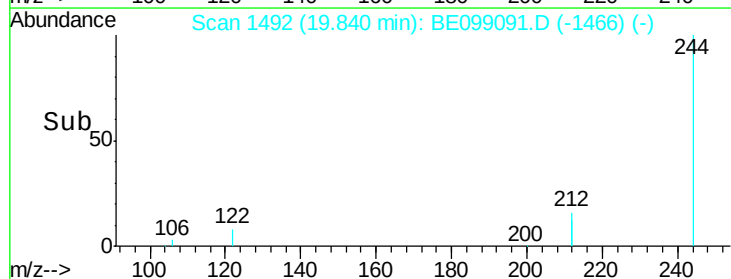
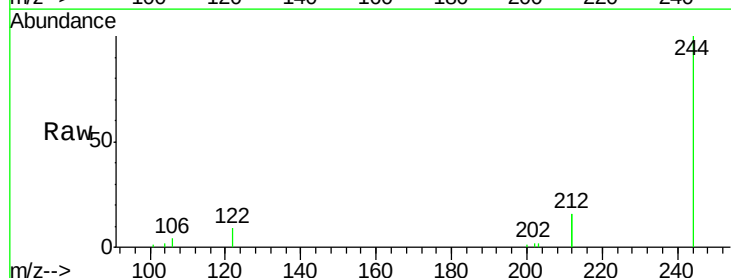
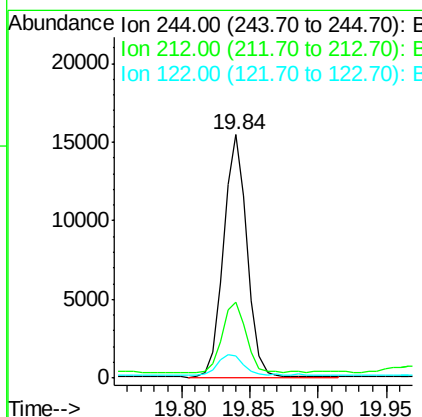
Manual Integrations
 APPROVED

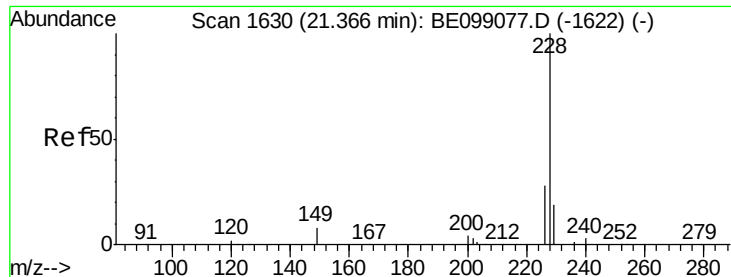
Sohil
 3/25/2019 12:12:03 PM



#29
 Terphenyl-d14
 Concen: 0.256 ng
 RT: 19.84 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	31.2	29.4	44.2
122	9.0	7.1	10.7





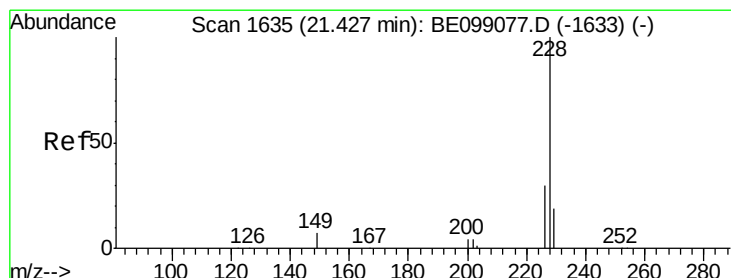
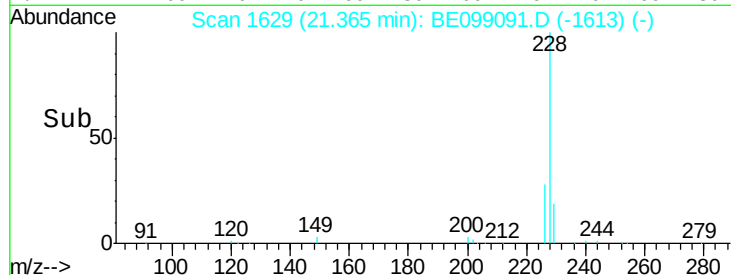
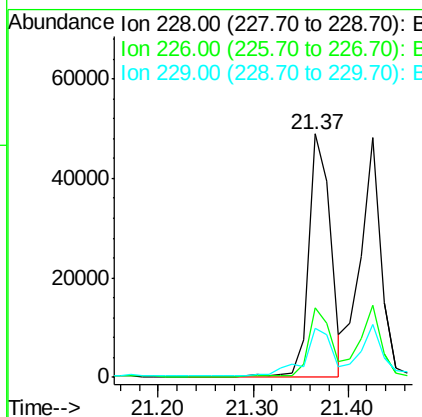
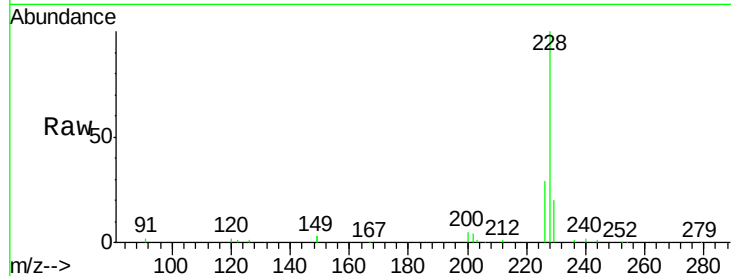
#30
Benzo(a)anthracene
Concen: 0.632 ng
RT: 21.37 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.0	34.4
229	20.2	16.5	24.7

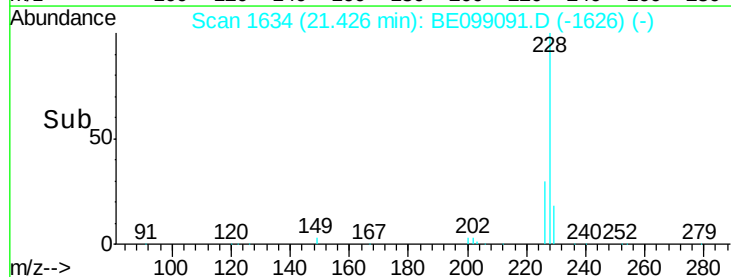
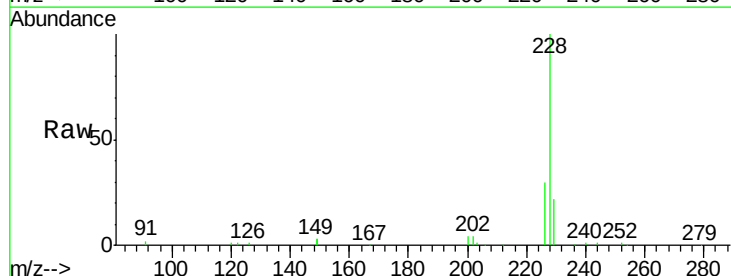
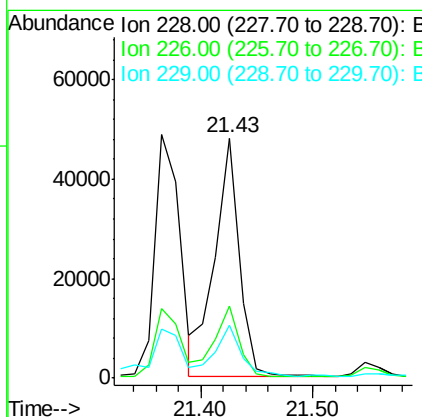
Manual Integrations
APPROVED

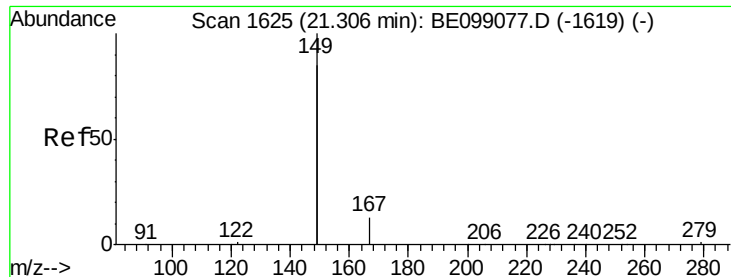
Sohil
3/25/2019 12:12:03 PM



#31
Chrysene
Concen: 0.597 ng
RT: 21.43 min Scan# 1634
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.7	35.5
229	22.3	16.1	24.1





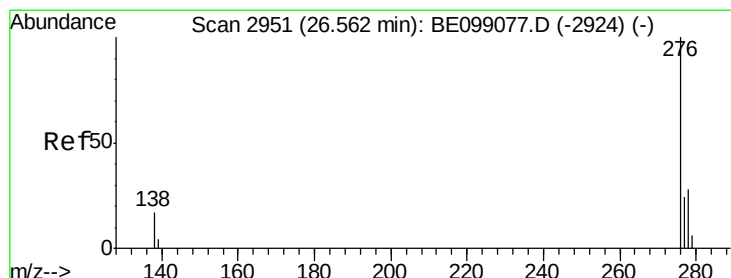
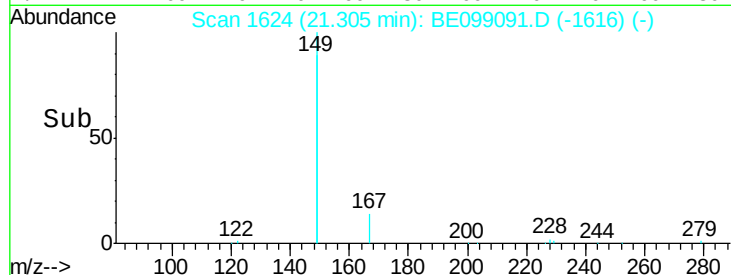
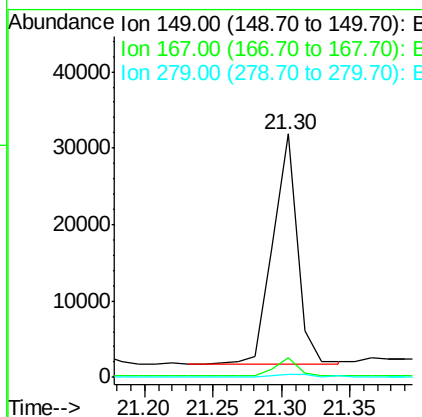
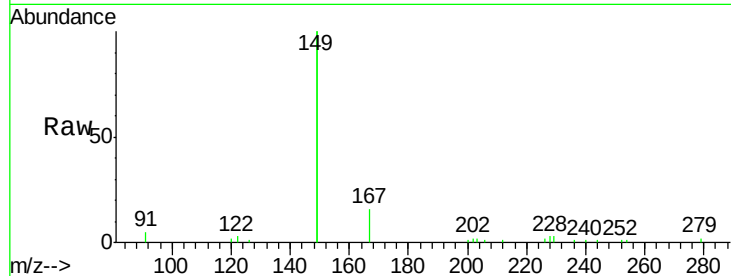
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.242 ng
 RT: 21.30 min Scan# 1624
 Delta R.T. -0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Tgt Ion:	149	Resp:	38045
Ion Ratio	Lower	Upper	
149	100		
167	7.6	5.4	8.0
279	1.1	1.0	1.4

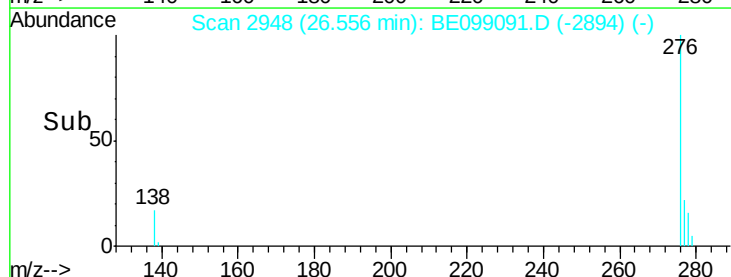
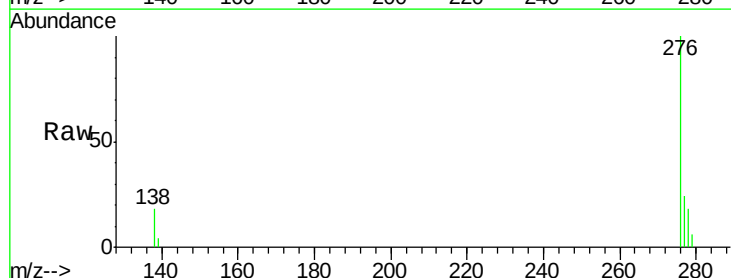
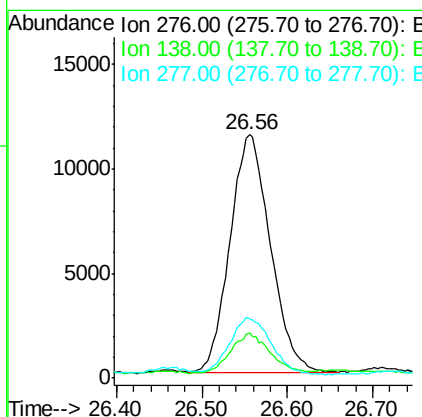
Manual Integrations
 APPROVED

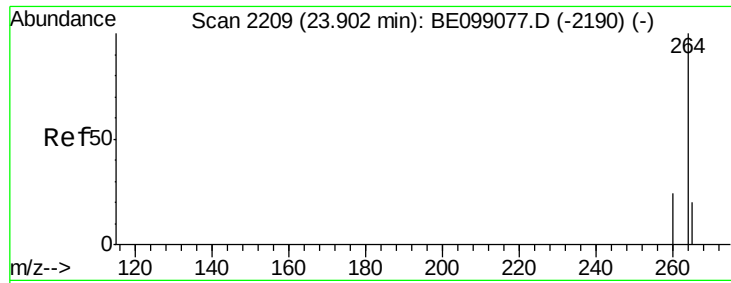
Sohil
 3/25/2019 12:12:03 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.288 ng
 RT: 26.56 min Scan# 2948
 Delta R.T. -0.01 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Tgt Ion:	276	Resp:	37487
Ion Ratio	Lower	Upper	
276	100		
138	16.1	13.8	20.8
277	24.5	19.5	29.3





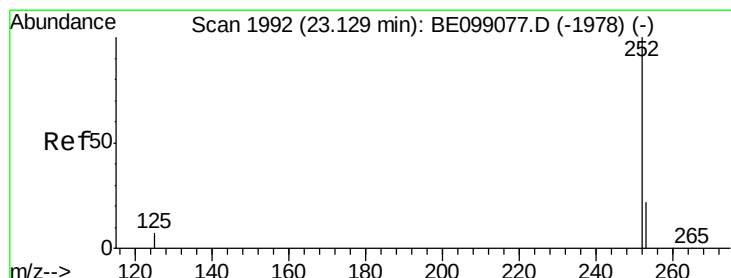
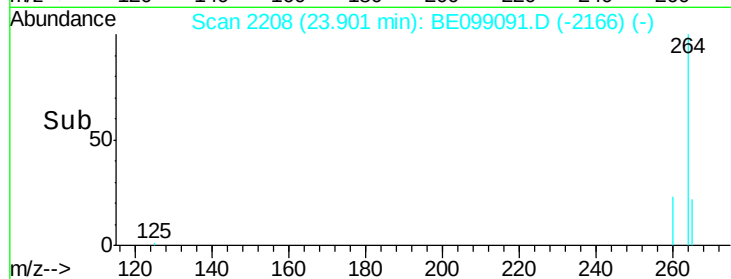
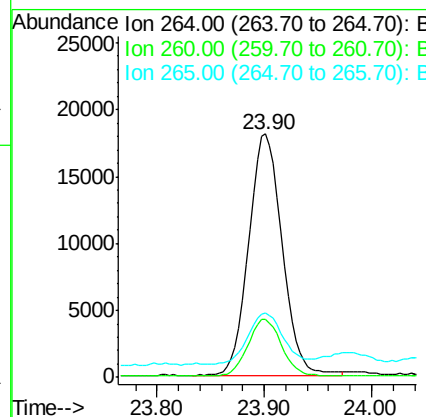
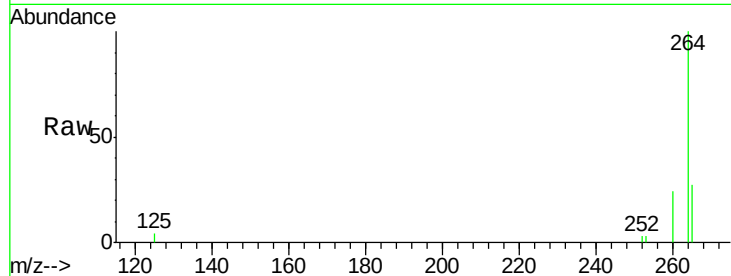
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.90 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Instrument :
 BNA_E
 ClientSampleId :
 INV-025-SW04-031319

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	39038		
260	23.8		21.2	31.8
265	26.6		24.6	36.8

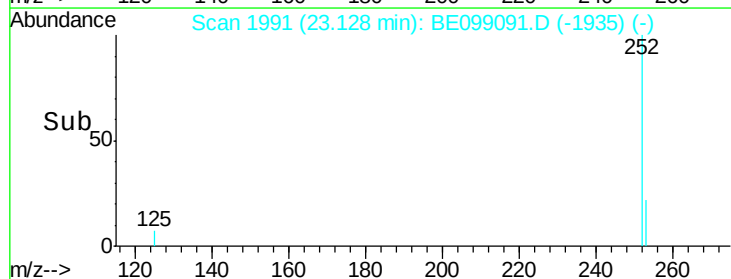
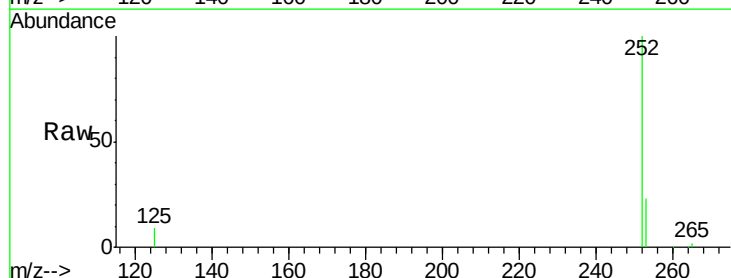
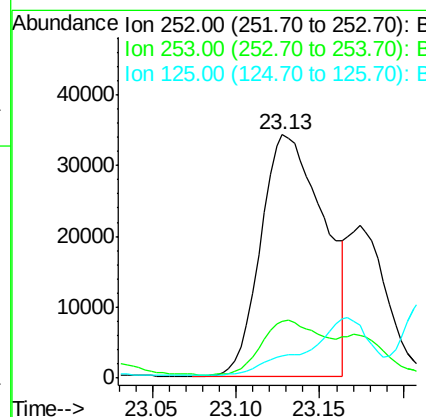
Manual Integrations
 APPROVED

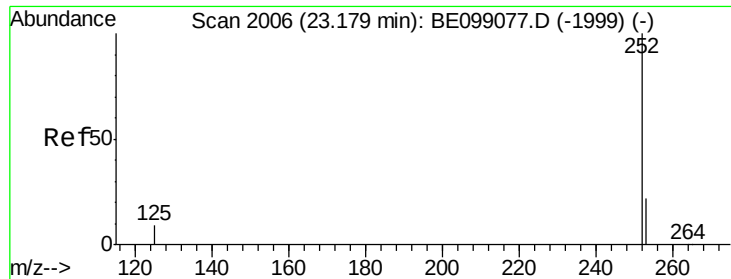
Sohil
 3/25/2019 12:12:03 PM



#35
Benzo(b)fluoranthene
 Concen: 0.664 ng
 RT: 23.13 min Scan# 1991
 Delta R.T. -0.00 min
 Lab File: BE099091.D
 Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	89656		
253	23.2		18.2	27.2
125	8.9		7.3	10.9





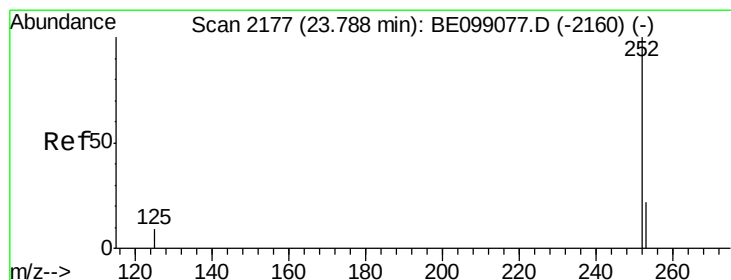
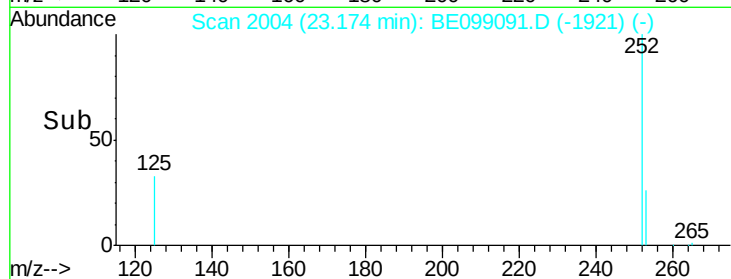
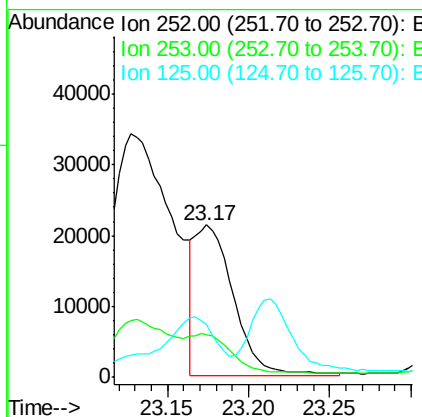
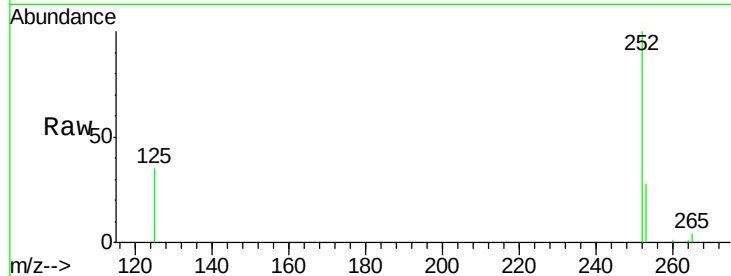
#36
Benzo(k)fluoranthene
Concen: 0.270 ng m
RT: 23.17 min Scan# 2004
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Instrument :
BNA_E
ClientSampleId :
INV-025-SW04-031319

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.0	19.3	28.9
125	34.5	7.5	11.3

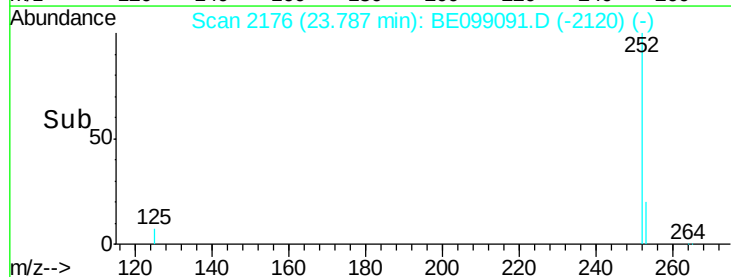
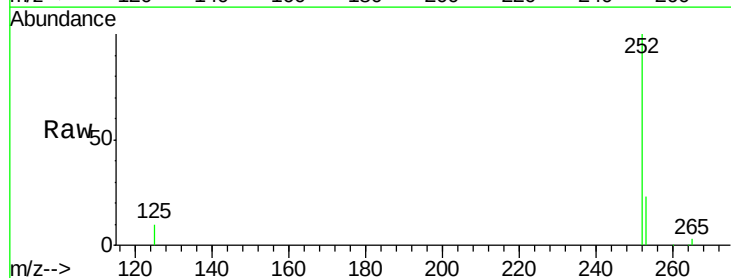
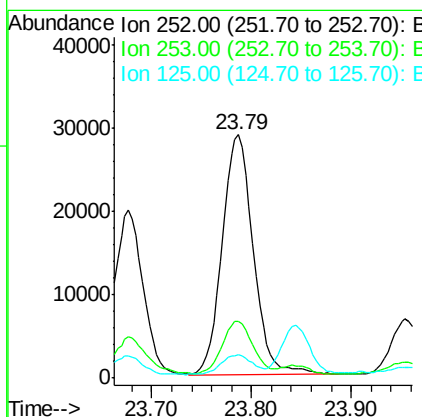
Manual Integrations
APPROVED

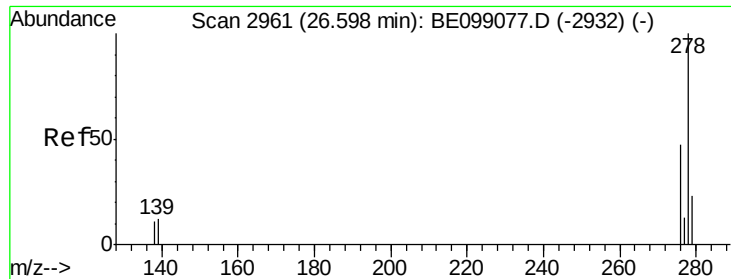
Sohil
3/25/2019 12:12:03 PM



#37
Benzo(a)pyrene
Concen: 0.499 ng
RT: 23.79 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BE099091.D
Acq: 22 Mar 2019 22:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.9	29.9
125	9.7	9.0	13.4





#38

Dibenzo(a,h)anthracene

Concen: 0.086 ng

RT: 26.58 min Scan# 2955

Delta R.T. -0.02 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Instrument :

BNA_E

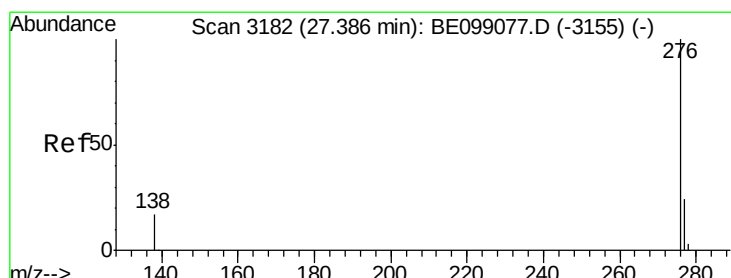
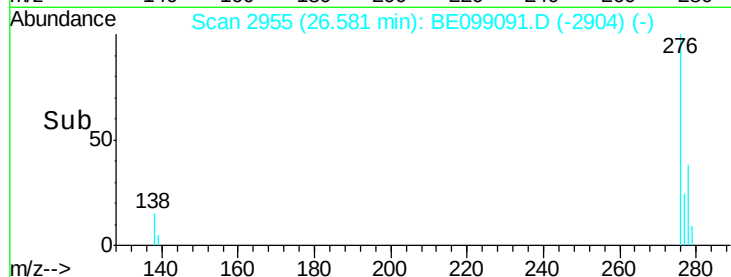
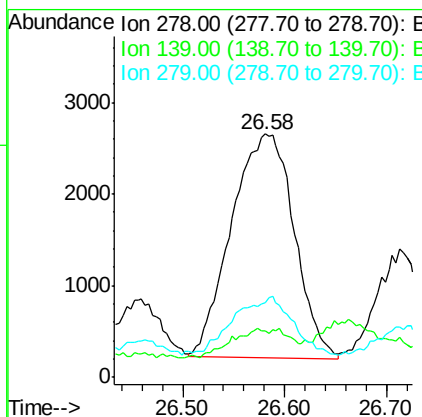
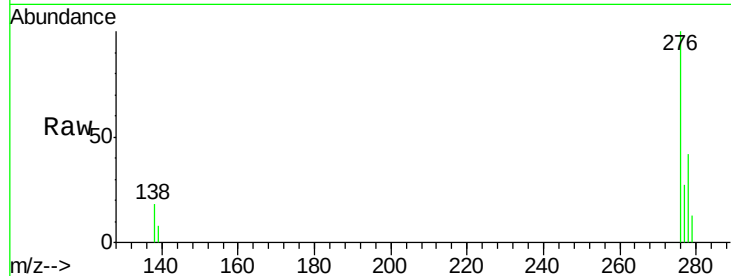
ClientSampleId :

INV-025-SW04-031319

Tgt Ion:	278	Resp:	10400
Ion Ratio	Lower	Upper	
278	100		
139	19.0	11.8	17.6#
279	30.8	21.1	31.7

Manual Integrations
APPROVED

Sohil
3/25/2019 12:12:03 PM



#39

Benzo(g,h,i)perylene

Concen: 0.275 ng

RT: 27.38 min Scan# 3178

Delta R.T. -0.01 min

Lab File: BE099091.D

Acq: 22 Mar 2019 22:02

Tgt Ion:	276	Resp:	34259
Ion Ratio	Lower	Upper	
276	100		
277	24.3	20.4	30.6
138	17.9	13.6	20.4

