

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020516\
 Data File : BE091396.D
 Acq On : 5 Feb 2016 11:57
 Operator : UM/IZ
 Sample : G4825-04
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2016-02

Manual Integrations
 APPROVED

Sohil
 2/8/2016 3:04:06 PM

Quant Time: Feb 05 18:11:05 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	48716	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	226505	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	147422	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	385166	5.00	ng	0.00
18) Chrysene-d12	20.22	240	419728	5.00	ng	0.00
24) Perylene-d12	22.10	264	391997	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	76638	6.66	ng	-0.03
3) Phenol-d6	6.54	99	105066	6.45	ng	-0.03
5) Nitrobenzene-d5	8.17	82	45186	3.12	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	29412	4.24	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	147359	3.84	ng	0.00
20) Terphenyl-d14	18.61	244	262383	4.23	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.60	128	7215	0.14	ng	97
7) 2-Methylnaphthalene	11.17	142	4027	0.25	ng	98
11) Acenaphthylene	13.11	152	24946	0.27	ng	99
12) Acenaphthene	13.42	154	5374	0.13	ng	98
13) Fluorene	14.42	166	6549	0.13	ng	99
15) Phenanthrene	16.13	178	14138	0.14	ng	98
16) Anthracene	16.23	178	10395	0.12	ng	97
17) Fluoranthene	18.10	202	12077	0.23	ng	98
19) Pyrene	18.49	202	12355	0.14	ng	99
21) Benzo(a)anthracene	20.19	228	10552m	0.28	ng	
22) Chrysene	20.25	228	18303m	0.11	ng	
23) Indeno(1,2,3-cd)pyrene	23.72	276	10885m	0.27	ng	
25) Benzo(b)fluoranthene	21.55	252	10199	0.25	ng	99
26) Benzo(k)fluoranthene	21.58	252	13161m	0.15	ng	
27) Benzo(a)pyrene	22.01	252	8716	0.26	ng	93
28) Dibenzo(a,h)anthracene	23.68	278	8613	0.34	ng	# 93
29) Benzo(g,h,i)perylene	24.27	276	11151	0.25	ng	95

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

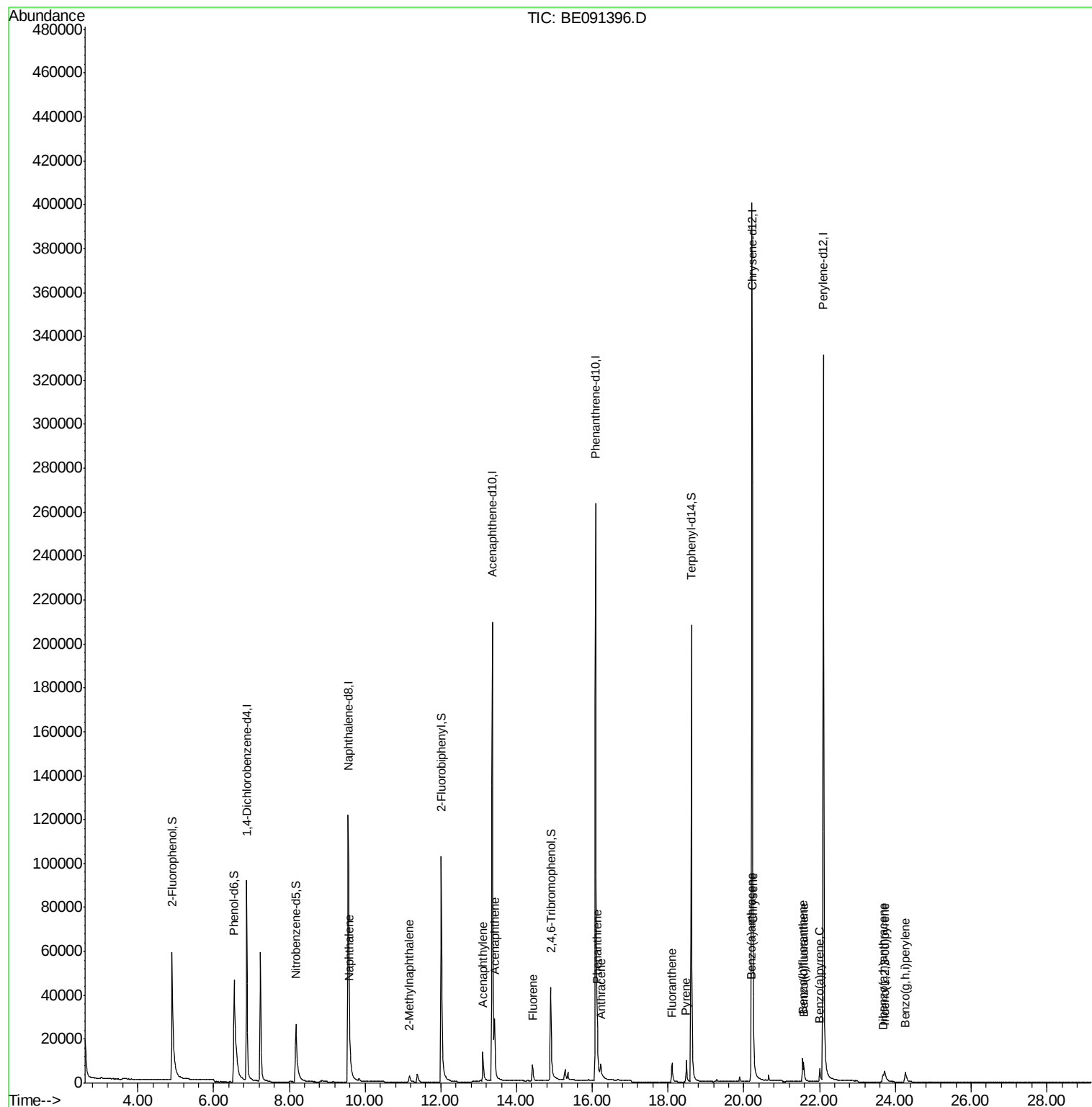
Data Path : Z:\HPCHEM1\BNA E\DATA\BE020516\
Data File : BE091396.D
Acq On : 5 Feb 2016 11:57
Operator : UM/IZ
Sample : G4825-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

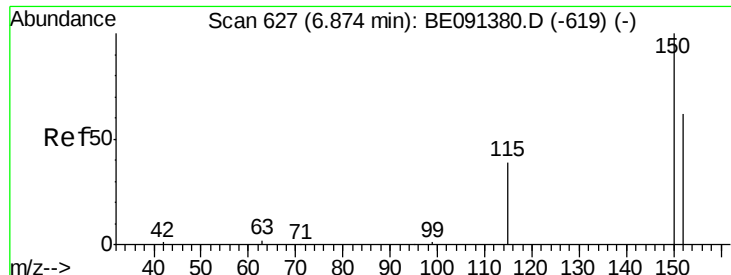
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM

Quant Time: Feb 05 18:11:05 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 00:27:53 2016
Response via : Initial Calibration





#1

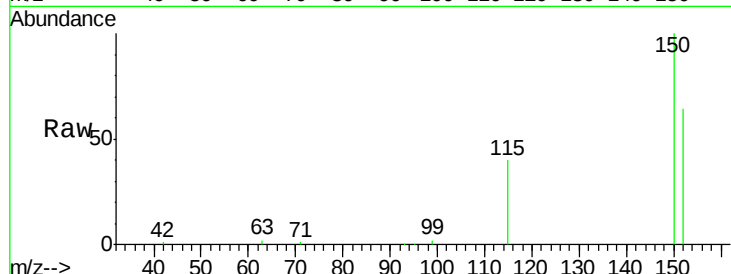
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	128.9	193.3
115	63.1	50.9	76.3

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM

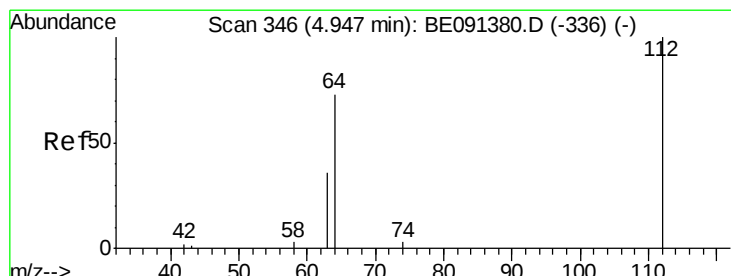
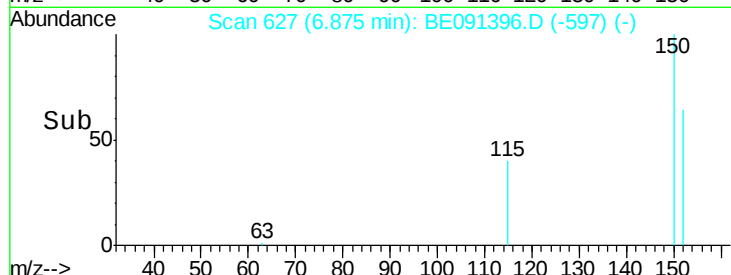
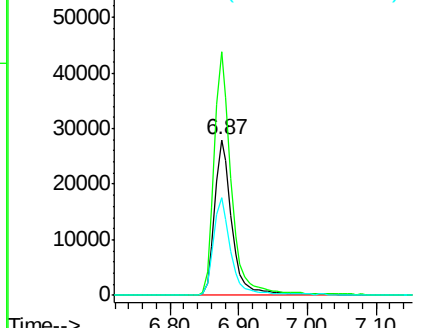


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

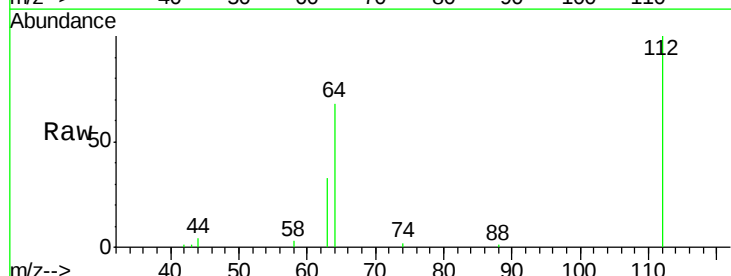
Ion 115.00 (114.70 to 115.70): E



#2

2-Fluorophenol
Concen: 6.66 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.03 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.2	60.5	90.7
63	36.7	29.8	44.8

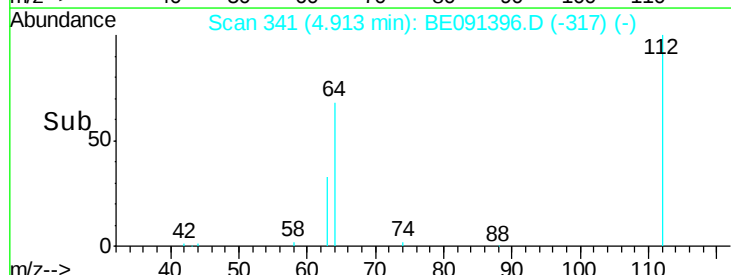
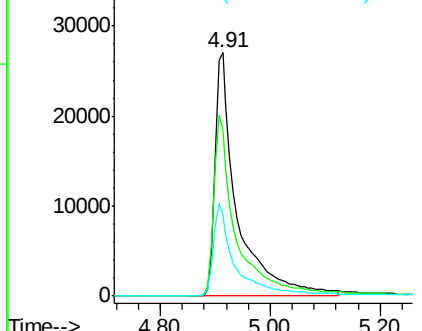


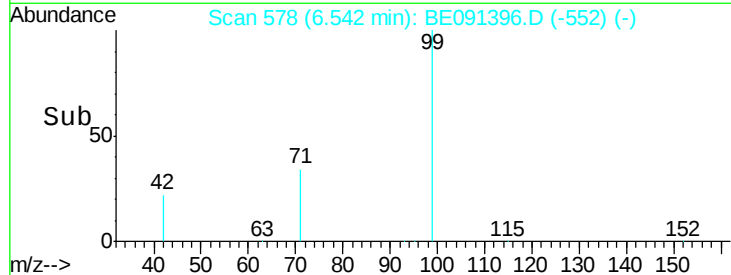
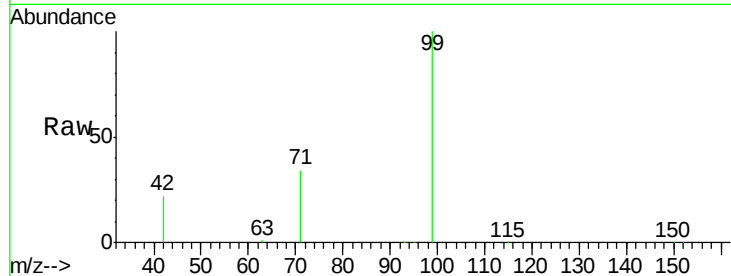
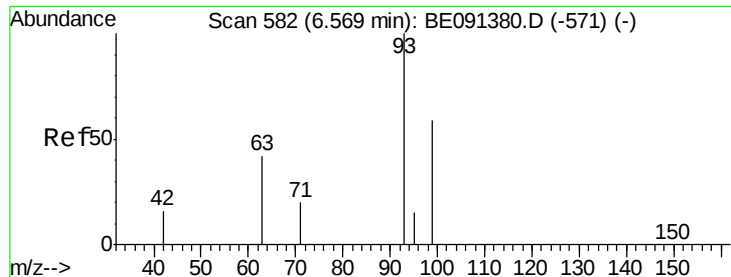
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





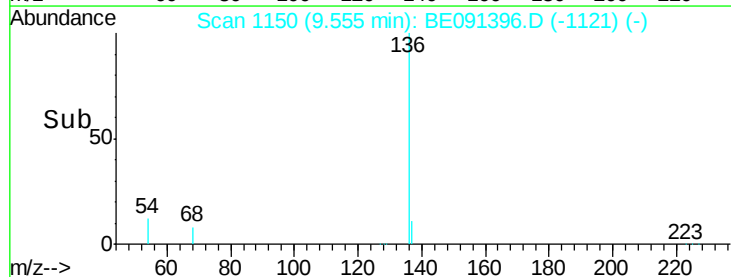
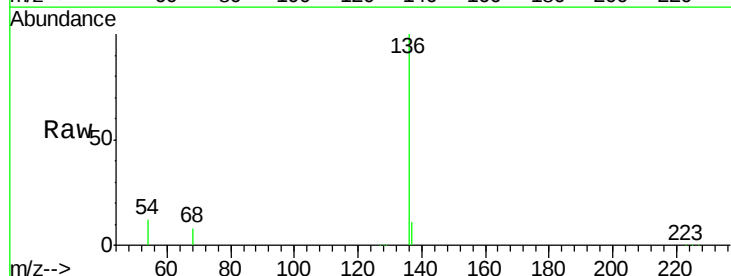
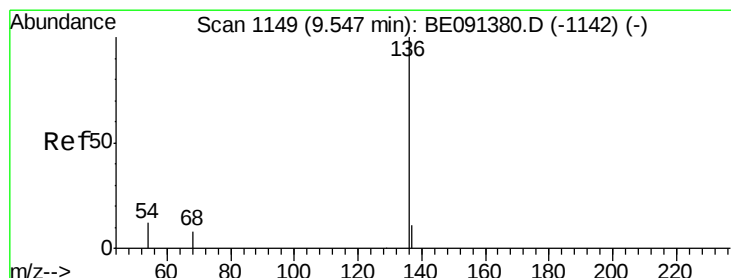
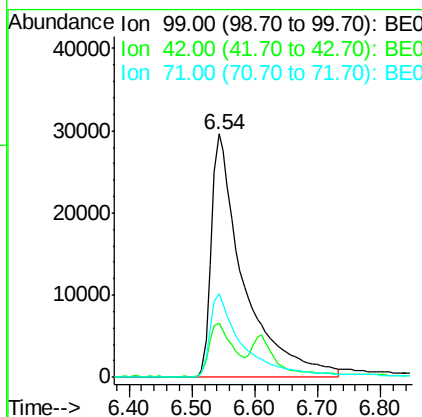
#3
Phenol-d6
Concen: 6.45 ng
RT: 6.54 min Scan# 578
Delta R.T. -0.03 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tot Ion	Ratio	Resp	Lower	Upper
99	100			
42	16.1	13.3	19.9	
71	34.5	25.6	38.4	

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

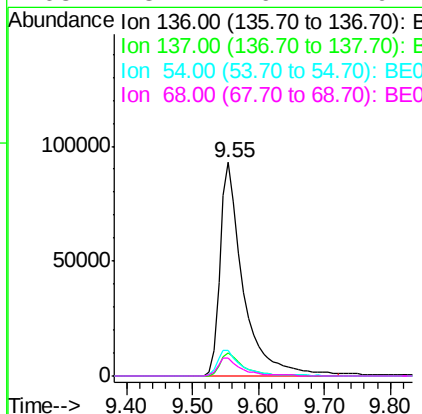
Manual Integrations
APPROVED

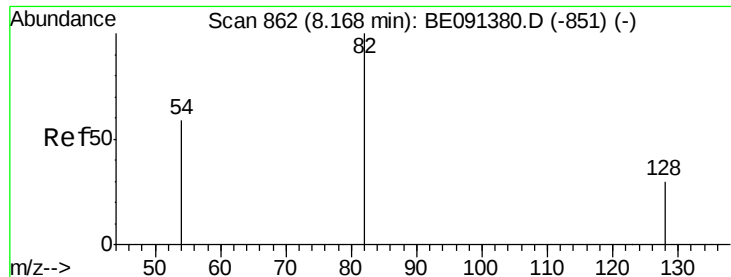
Sohil
2/8/2016 3:04:06 PM



#4
Naphthalene-d8
Concen: 5.00 ng
RT: 9.55 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.7	13.1	
54	11.8	9.3	13.9	
68	8.4	6.7	10.1	





#5

Nitrobenzene-d5

Concen: 3.12 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: BE091396.D

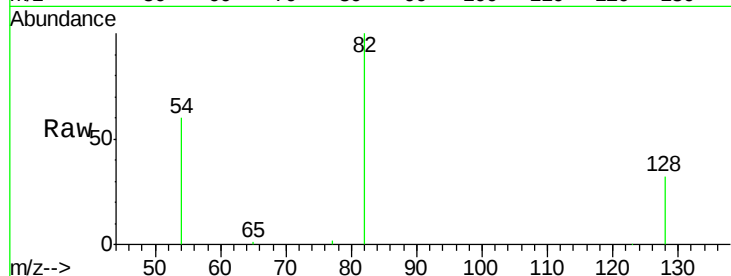
Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

ClientSampleId :

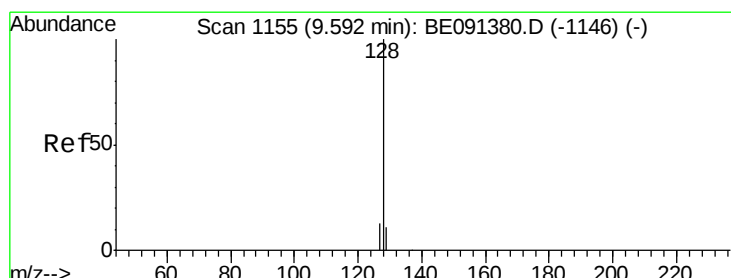
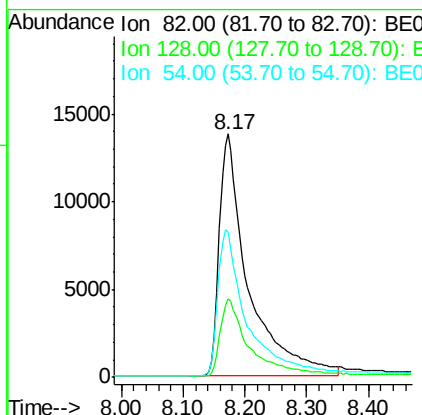
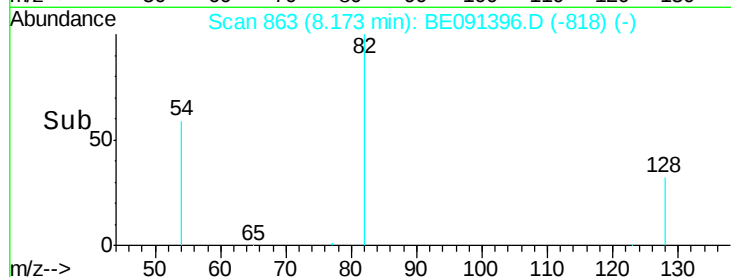
LOQ-SOIL2016-02



Tot Ion:	82	Resp:	45186
Ion Ratio	Lower	Upper	
82	100		
128	32.3	25.0	37.4
54	59.7	48.1	72.1

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#6

Naphthalene

Concen: 0.14 ng

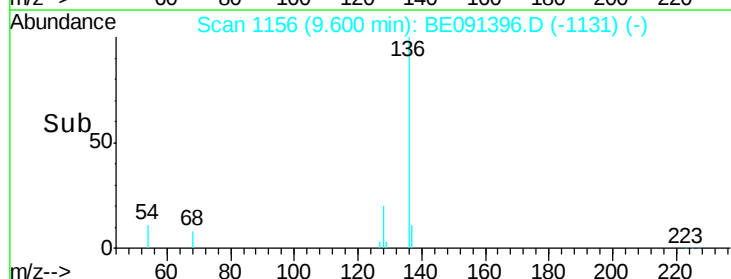
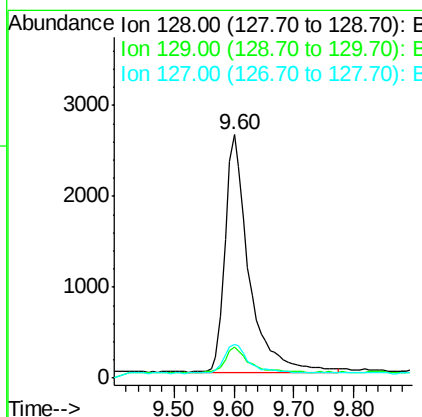
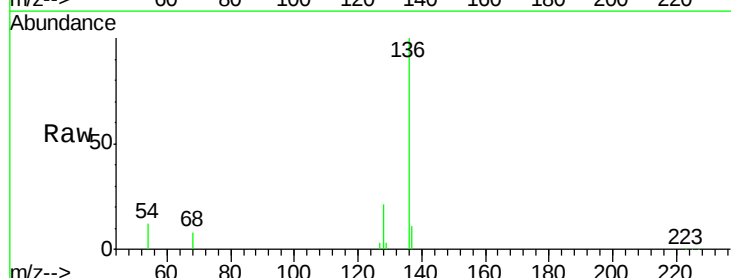
RT: 9.60 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion:	128	Resp:	7215
Ion Ratio	Lower	Upper	
128	100		
129	12.8	9.1	13.7
127	14.0	10.5	15.7





#7

2-Methylnaphthalene

Concen: 0.25 ng

RT: 11.17 min Scan# 1419

Delta R.T. 0.05 min

Lab File: BE091396.D

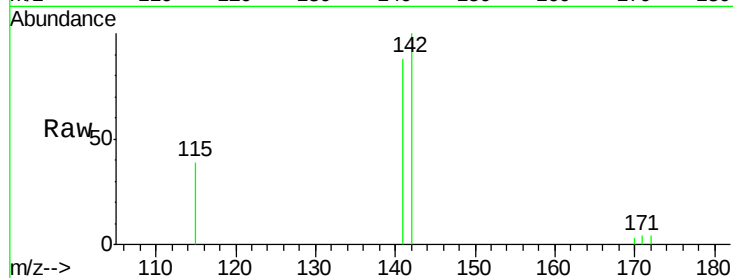
Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

ClientSampleId :

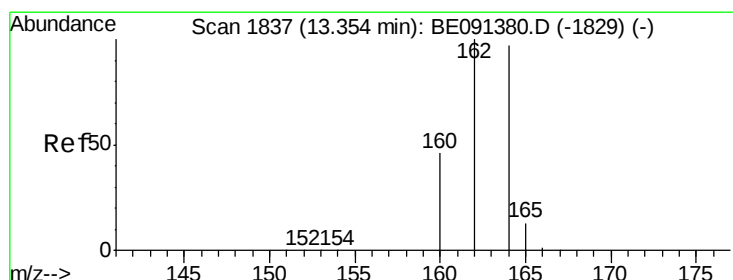
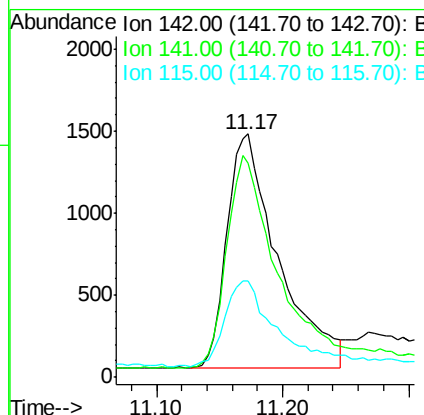
LOQ-SOIL2016-02



Tot Ion:	142	Resp:	4027
Ion	Ratio	Lower	Upper
142	100		
141	87.9	72.3	108.5
115	39.4	30.5	45.7

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#8

Acenaphthene-d10

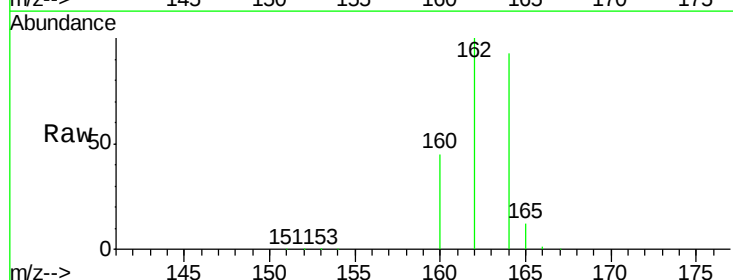
Concen: 5.00 ng

RT: 13.36 min Scan# 1838

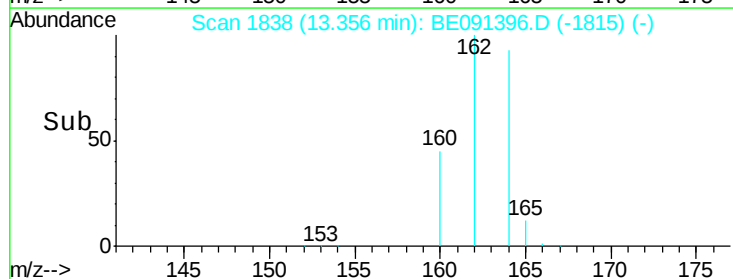
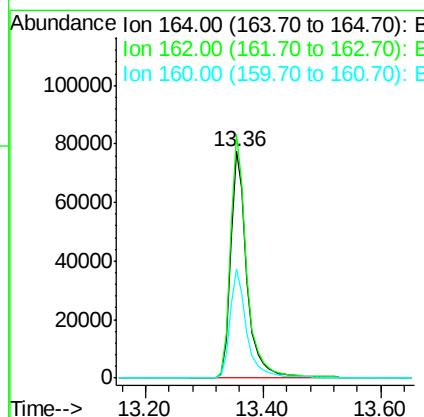
Delta R.T. 0.00 min

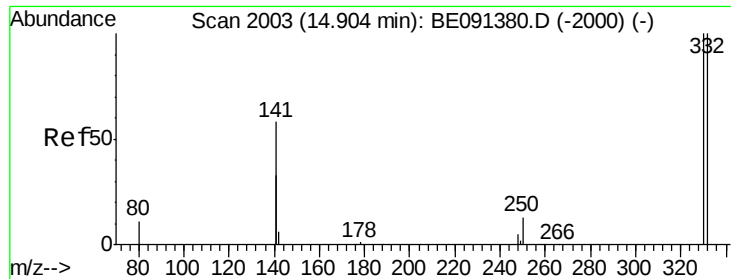
Lab File: BE091396.D

Acq: 5 Feb 2016 11:57



Tgt Ion:	164	Resp:	147422
Ion	Ratio	Lower	Upper
164	100		
162	107.3	82.2	123.2
160	48.3	37.8	56.8





#9

2,4,6-Tribromophenol

Concen: 4.24 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

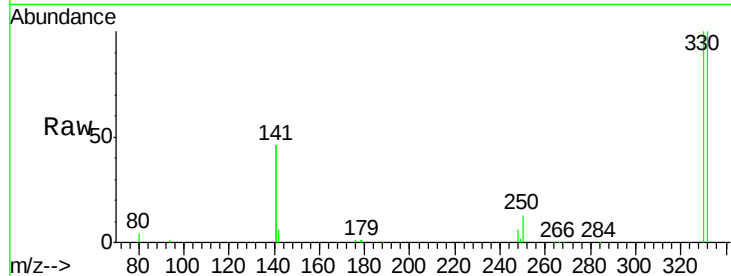
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.8	118.2
141	145.5	105.1	157.7

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM

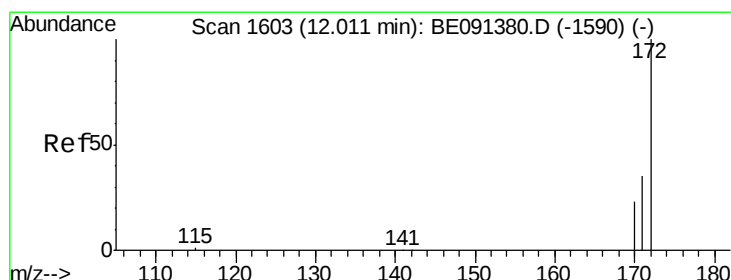
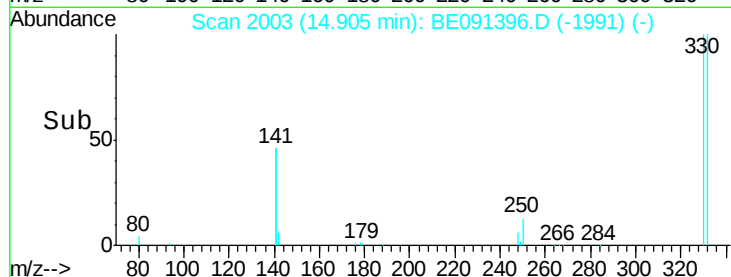
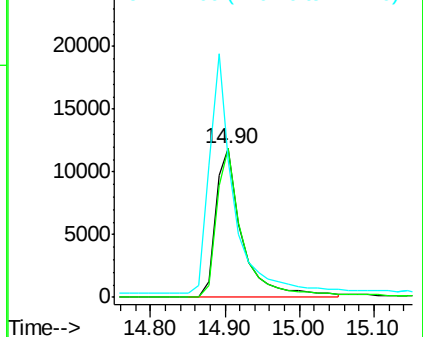


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 3.84 ng

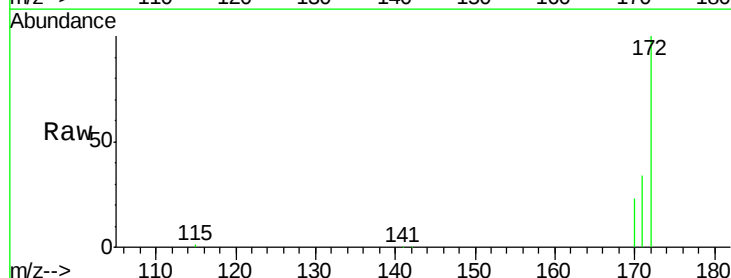
RT: 12.01 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.8	27.8	41.8
170	22.8	18.6	28.0

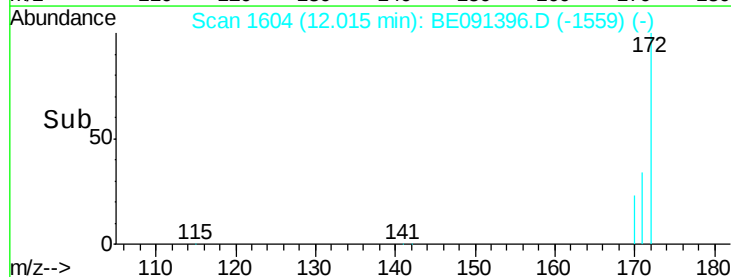
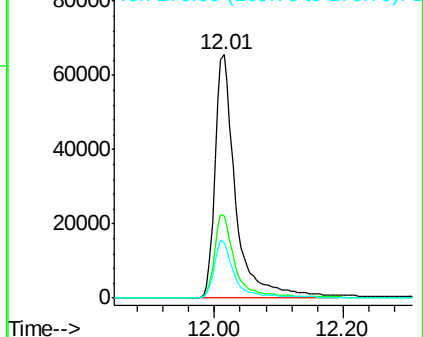


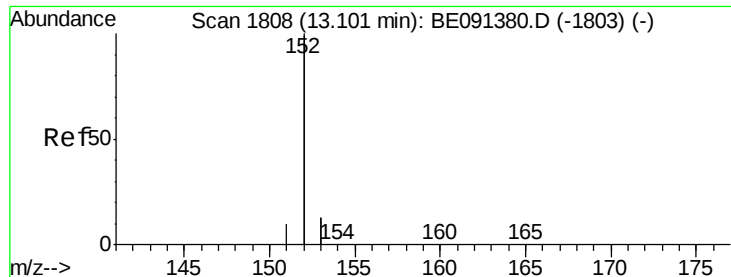
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





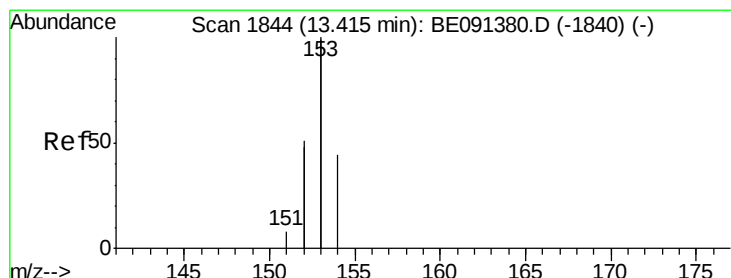
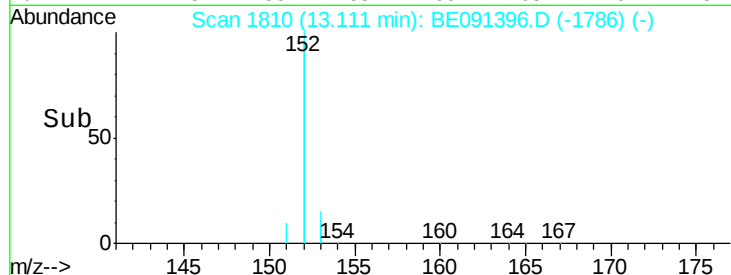
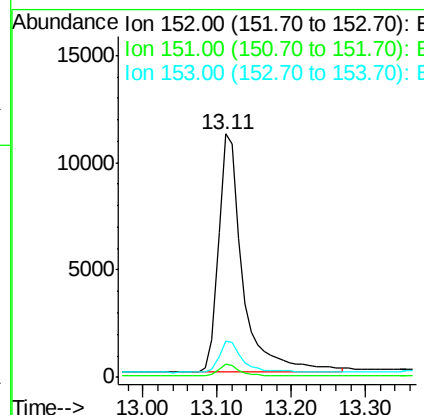
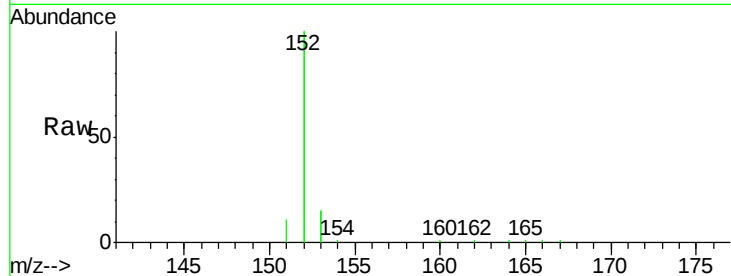
#11
Acenaphthylene
Concen: 0.27 ng
RT: 13.11 min Scan# 1810
Delta R.T. 0.01 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	13.4	10.2	15.4

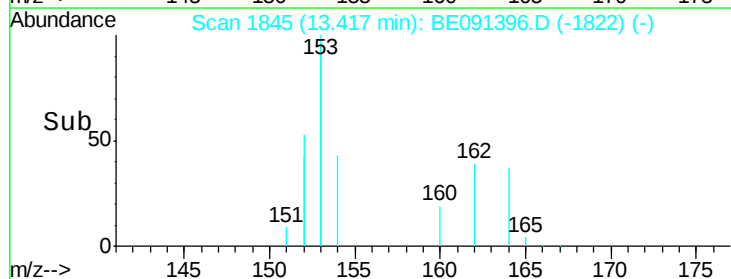
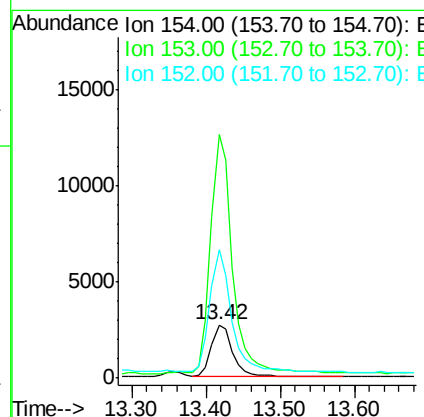
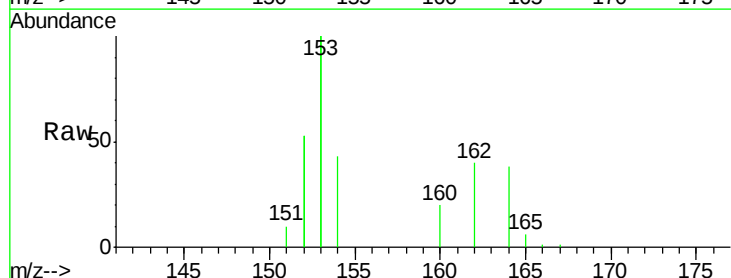
Manual Integrations
APPROVED

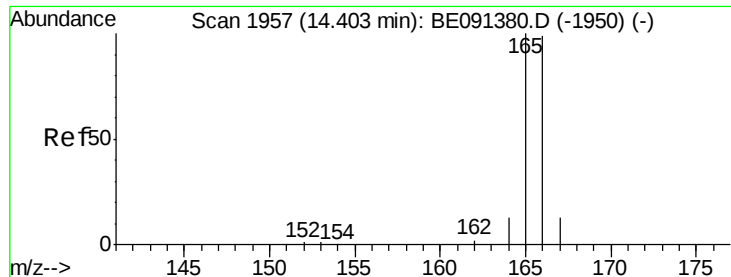
Sohil
2/8/2016 3:04:06 PM



#12
Acenaphthene
Concen: 0.13 ng
RT: 13.42 min Scan# 1845
Delta R.T. 0.00 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	464.7	369.8	554.8
152	234.6	194.4	291.6





#13

Fluorene

Concen: 0.13 ng

RT: 14.42 min Scan# 1960

Delta R.T. 0.02 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:166 Resp: 6549

Ion Ratio Lower Upper

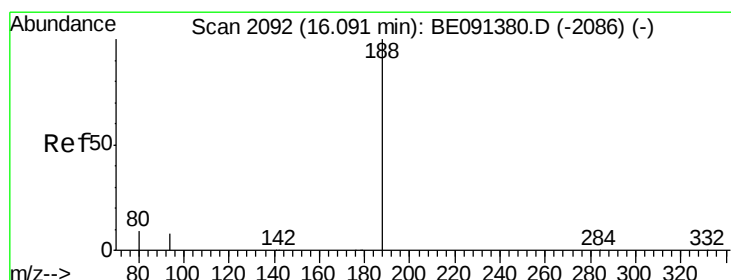
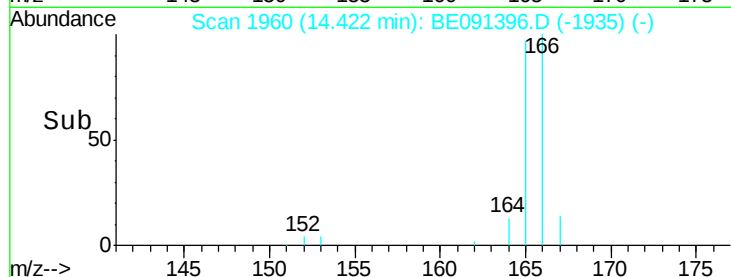
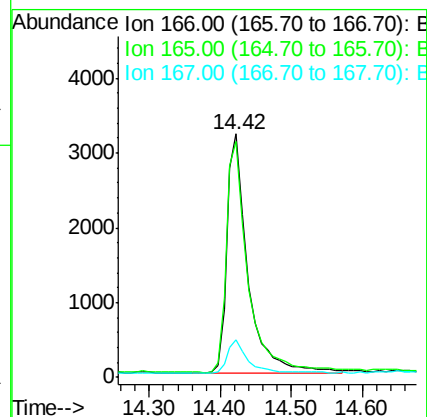
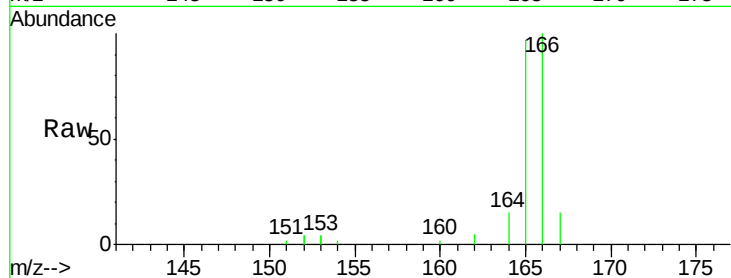
166 100

165 100.2 79.3 118.9

167 13.8 10.6 16.0

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

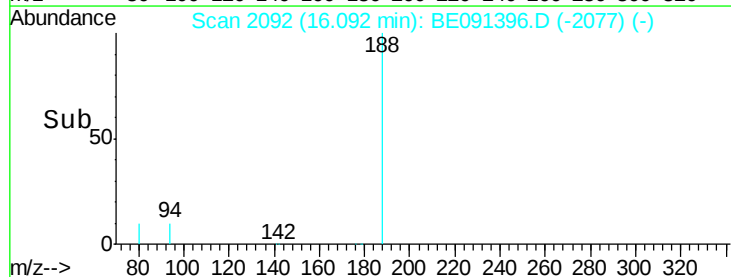
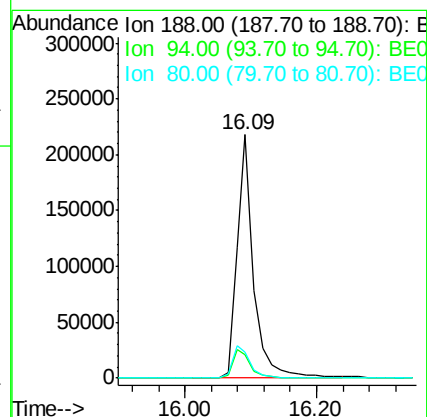
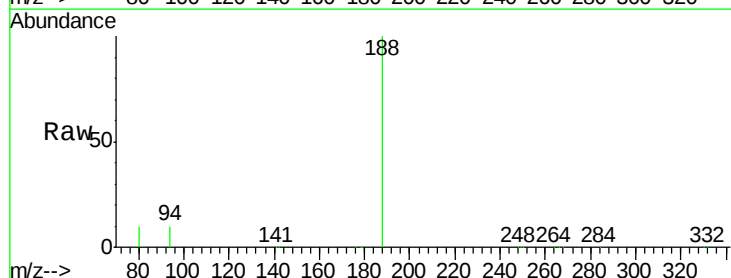
Tgt Ion:188 Resp: 385166

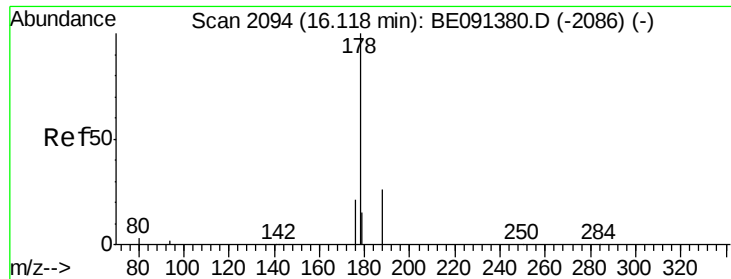
Ion Ratio Lower Upper

188 100

94 9.8 6.6 10.0

80 10.5 7.0 10.6





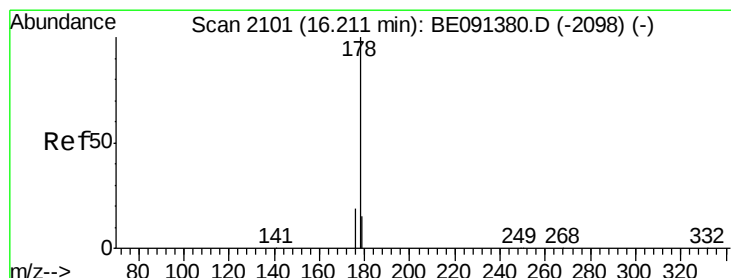
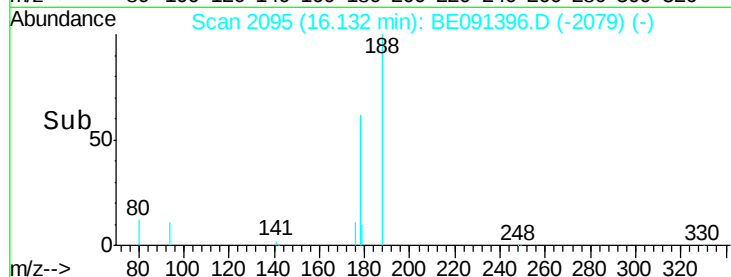
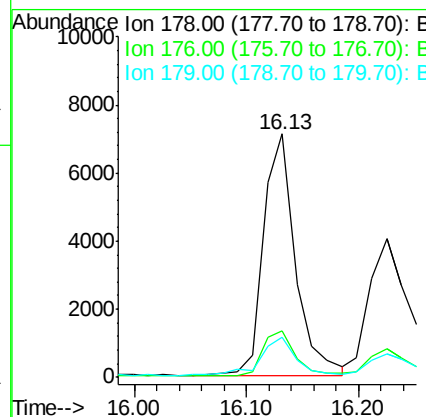
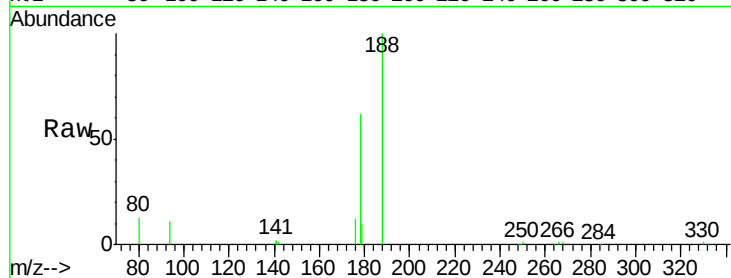
#15
Phenanthrene
Concen: 0.14 ng
RT: 16.13 min Scan# 2095
Delta R.T. 0.01 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	17.4	12.7	19.1

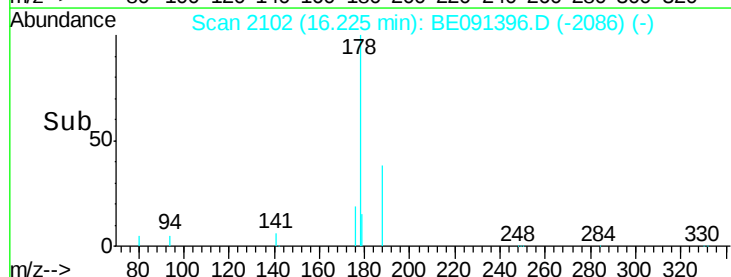
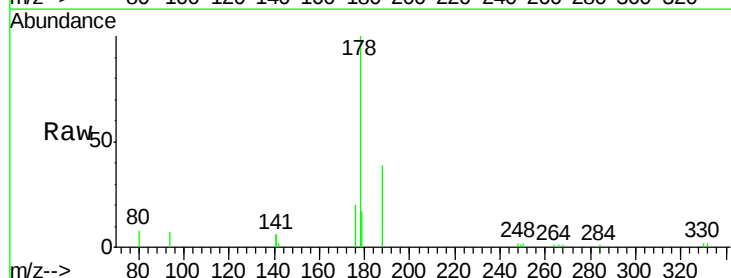
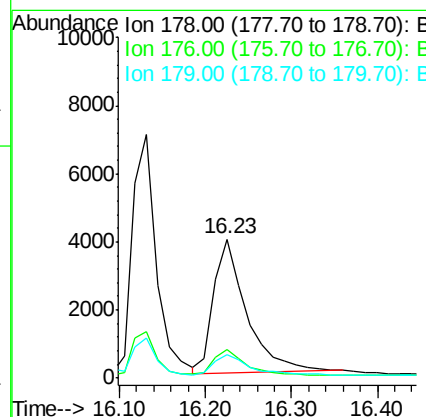
Manual Integrations
APPROVED

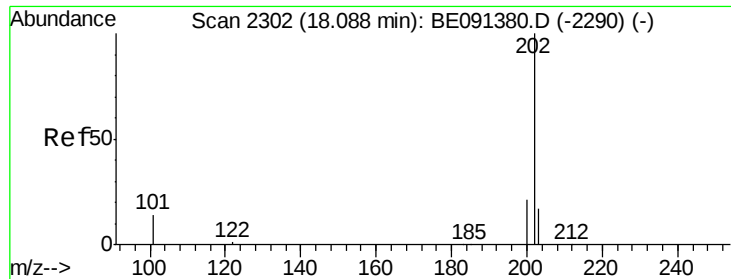
Sohil
2/8/2016 3:04:06 PM



#16
Anthracene
Concen: 0.12 ng
RT: 16.23 min Scan# 2102
Delta R.T. 0.01 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.8	22.2
179	17.0	12.1	18.1





#17

Fluoranthene

Concen: 0.23 ng

RT: 18.10 min Scan# 2304

Delta R.T. 0.02 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

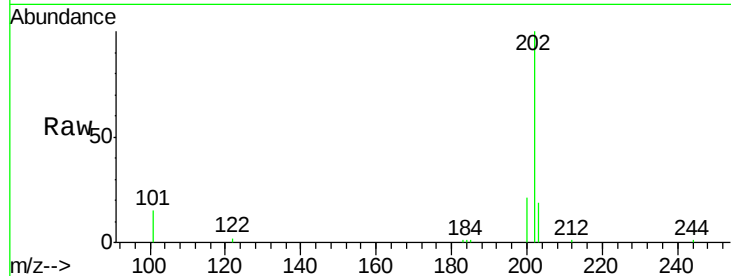
ClientSampleId :

LOQ-SOIL2016-02

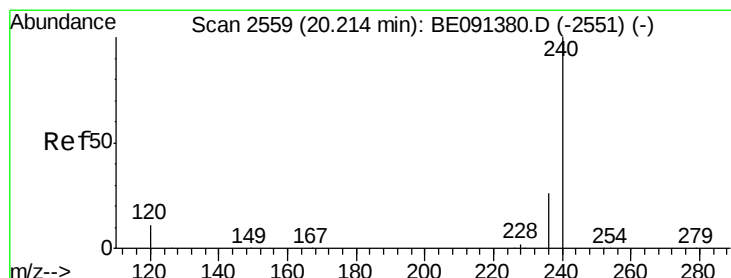
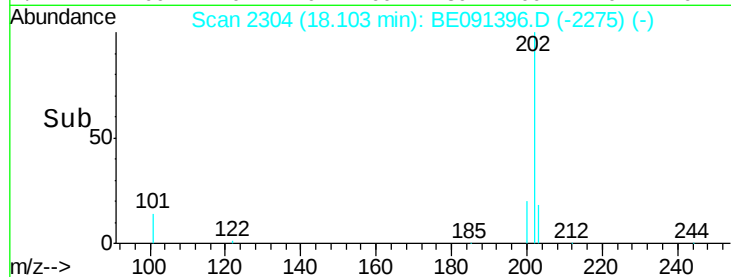
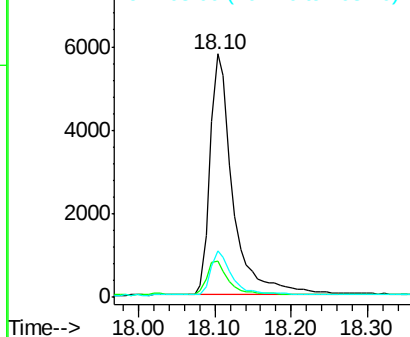
Tot Ion:	202	Resp:	12077
Ion Ratio	Lower	Upper	
202	100		
101	14.3	10.5	15.7
203	16.6	13.9	20.9

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.22 min Scan# 2559

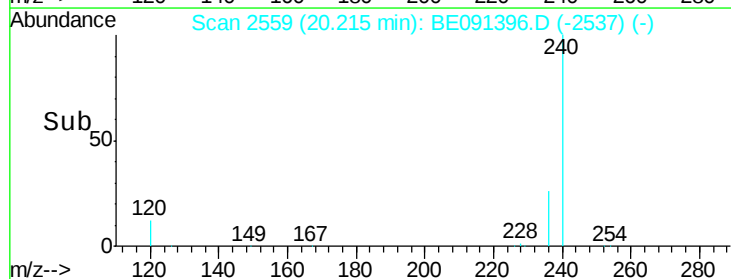
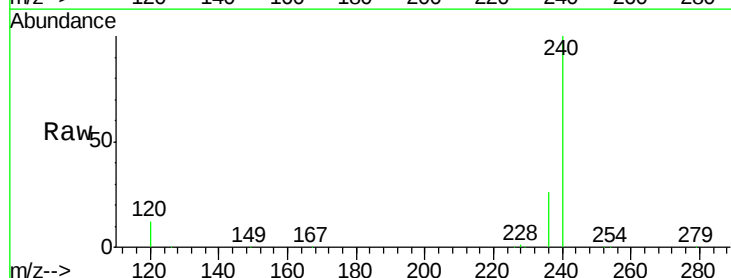
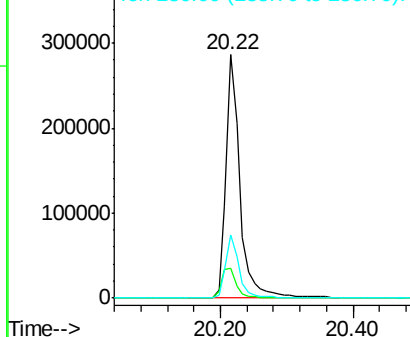
Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion:	240	Resp:	419728
Ion Ratio	Lower	Upper	
240	100		
120	12.4	8.9	13.3
236	26.0	21.0	31.4

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 0.14 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.02 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

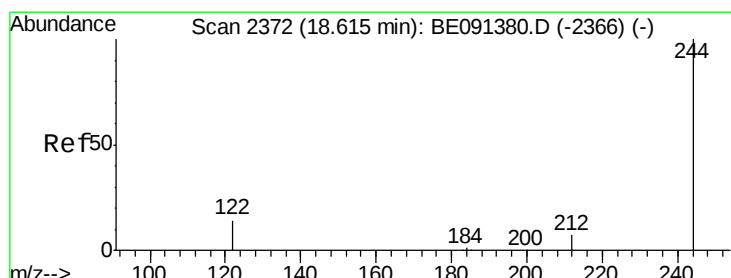
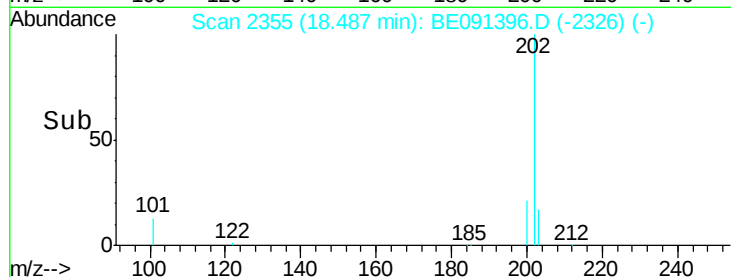
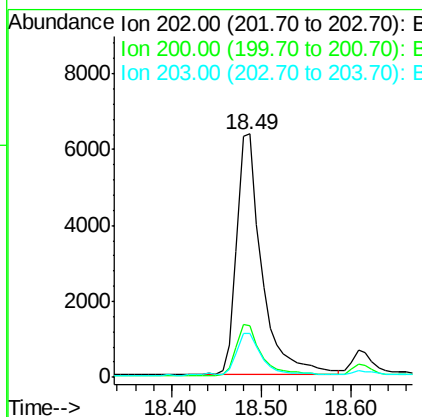
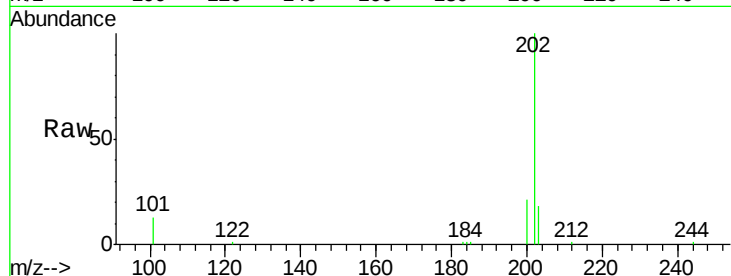
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	202	Resp:	12355
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	18.1	14.0	21.0

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#20

Terphenyl-d14

Concen: 4.23 ng

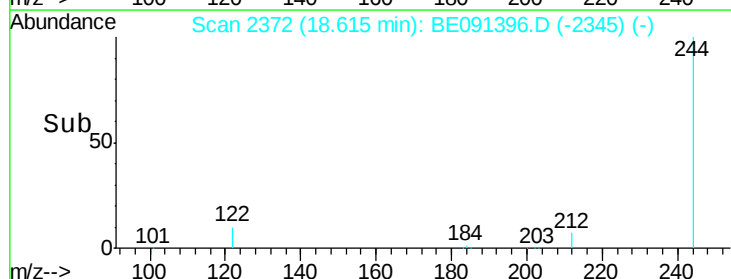
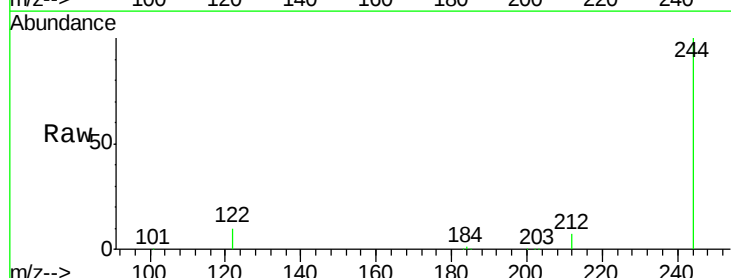
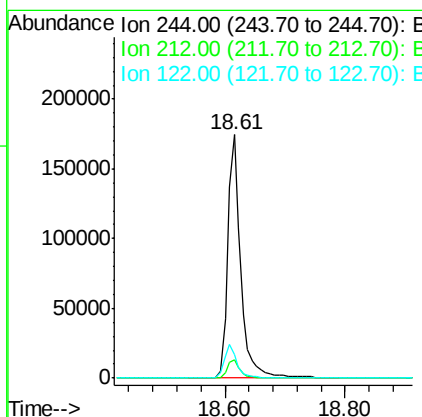
RT: 18.61 min Scan# 2372

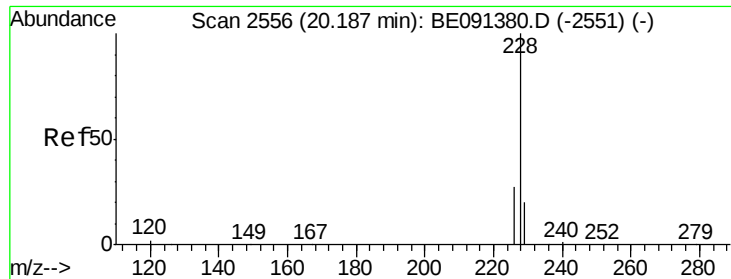
Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion:	244	Resp:	262383
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.1	9.1
122	9.7	11.0	16.6#





#21

Benzo(a)anthracene

Concen: 0.28 ng m

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

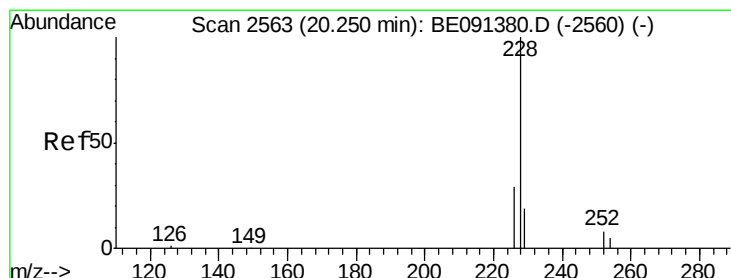
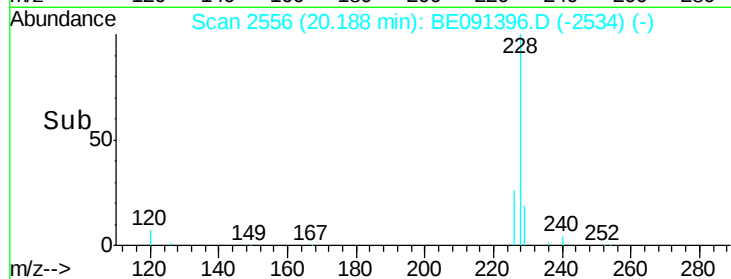
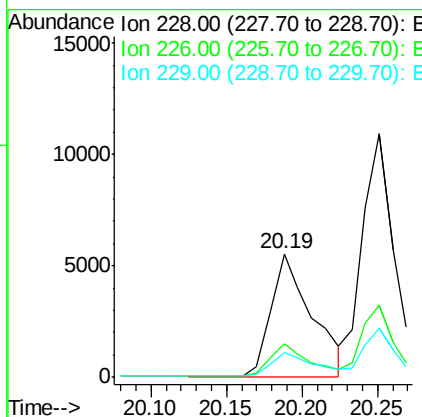
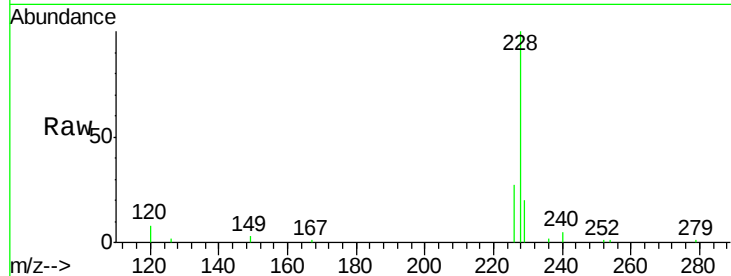
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	228	Resp:	10552
Ion Ratio	Lower	Upper	
228	100		
226	27.0	21.7	32.5
229	19.8	16.1	24.1

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#22

Chrysene

Concen: 0.11 ng m

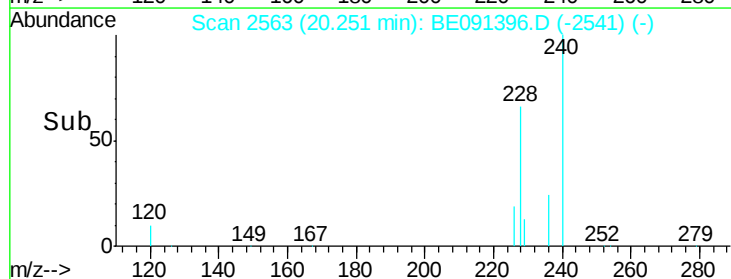
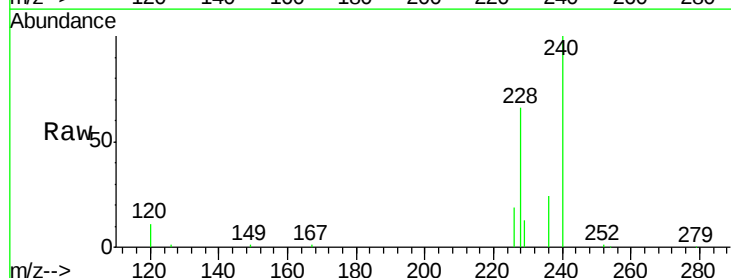
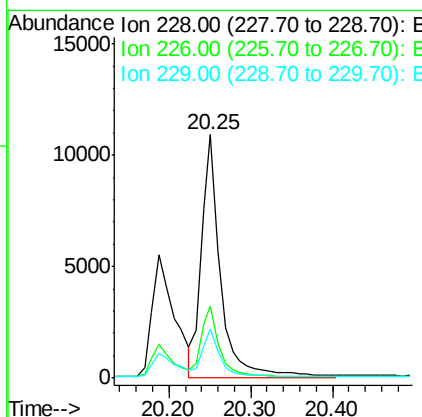
RT: 20.25 min Scan# 2563

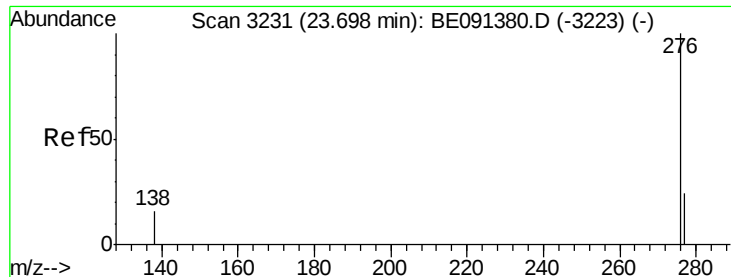
Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion:	228	Resp:	18303
Ion Ratio	Lower	Upper	
228	100		
226	29.5	23.4	35.0
229	20.1	15.7	23.5





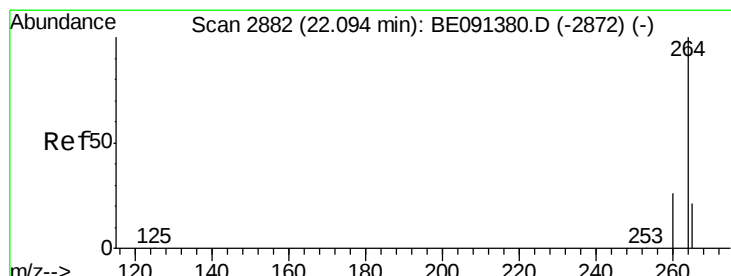
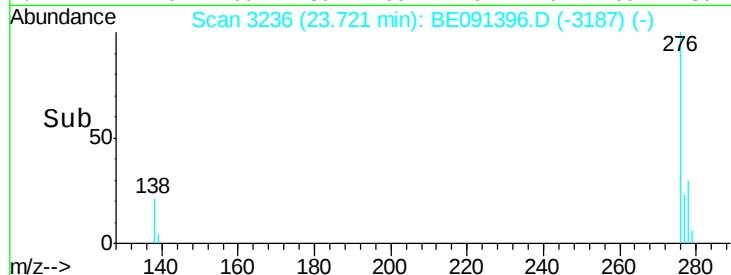
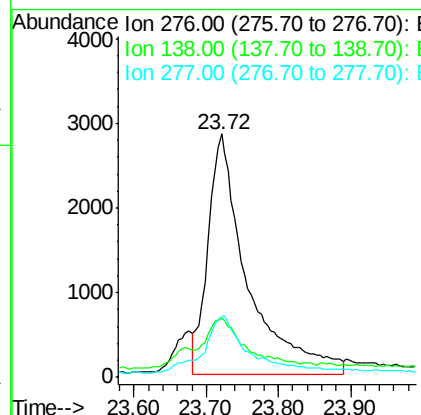
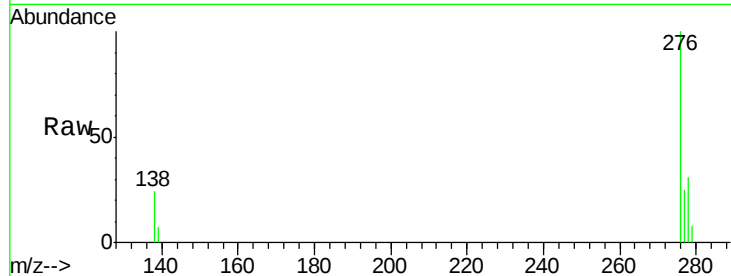
#23
Indeno(1,2,3-cd)pyrene
Concen: 0.27 ng m
RT: 23.72 min Scan# 3236
Delta R.T. 0.02 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	25.0
277	25.1	19.0	28.6

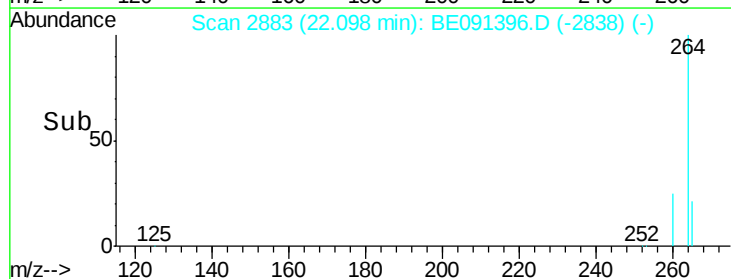
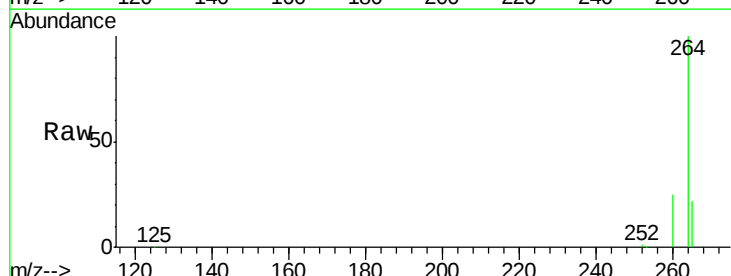
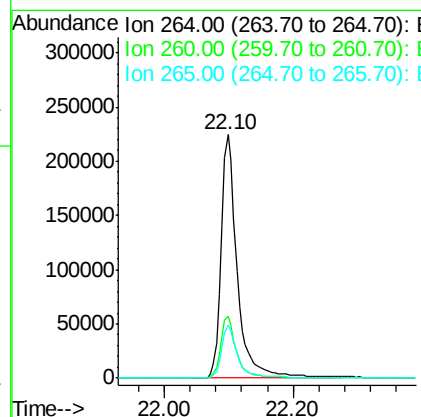
Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2883
Delta R.T. 0.00 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.7	31.1
265	21.5	17.2	25.8





#25

Benzo(b)fluoranthene

Concen: 0.25 ng

RT: 21.55 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

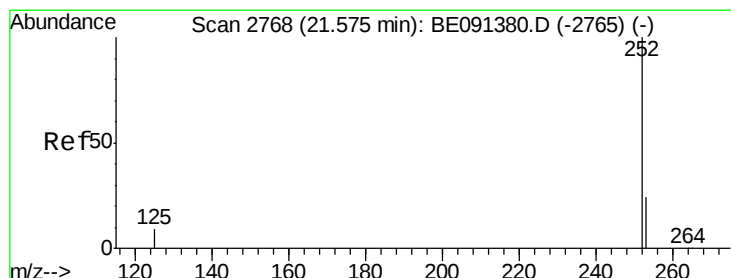
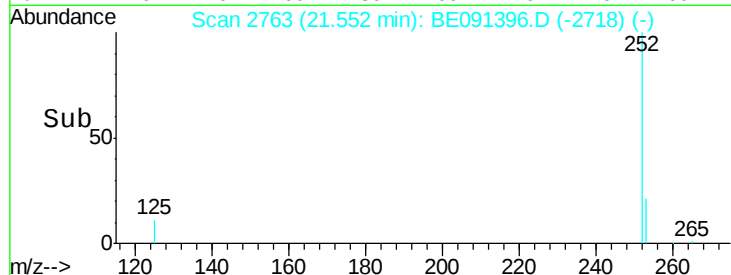
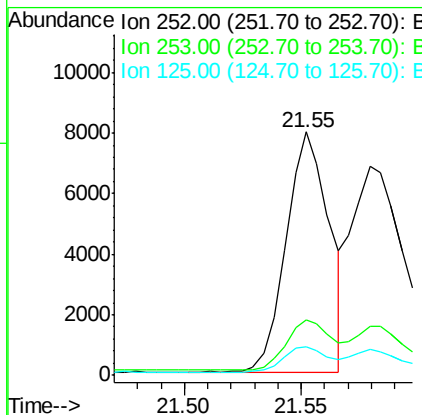
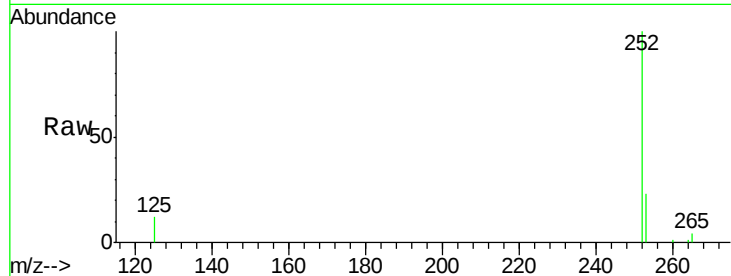
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	252	Resp:	10199
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.2	27.2
125	11.9	8.3	12.5

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM



#26

Benzo(k)fluoranthene

Concen: 0.15 ng m

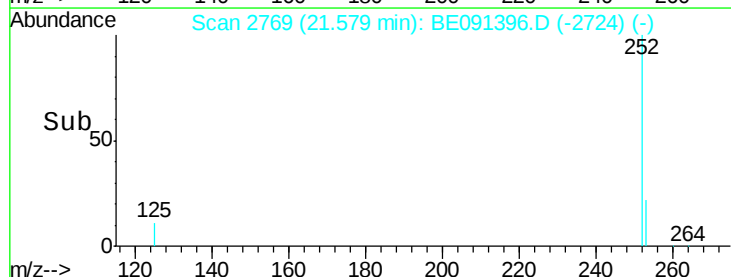
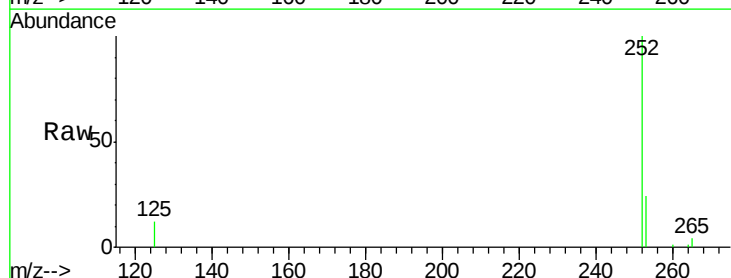
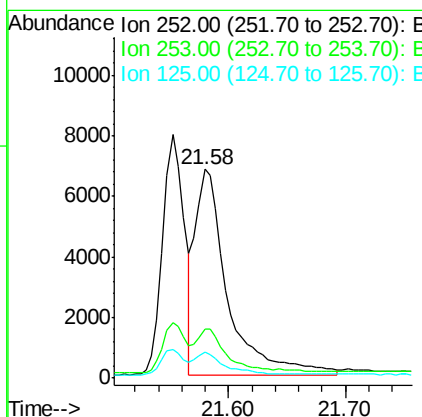
RT: 21.58 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BE091396.D

Acq: 5 Feb 2016 11:57

Tgt Ion:	252	Resp:	13161
Ion Ratio	Lower	Upper	
252	100		
253	23.7	18.1	27.1
125	12.5	8.2	12.4#





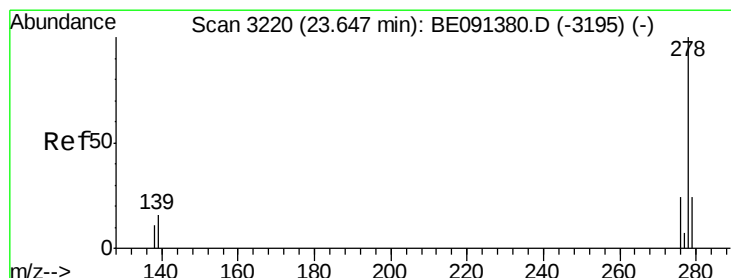
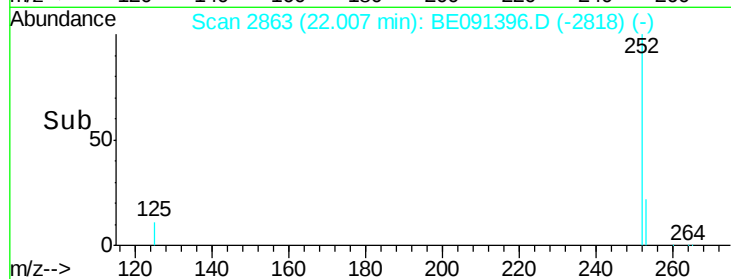
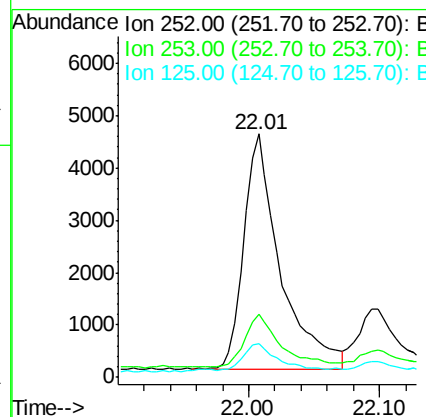
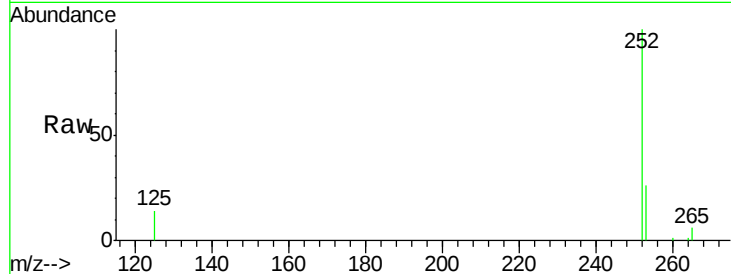
#27
Benzo(a)pyrene
Concen: 0.26 ng
RT: 22.01 min Scan# 2863
Delta R.T. 0.00 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.5	26.3
125	13.7	9.4	14.0

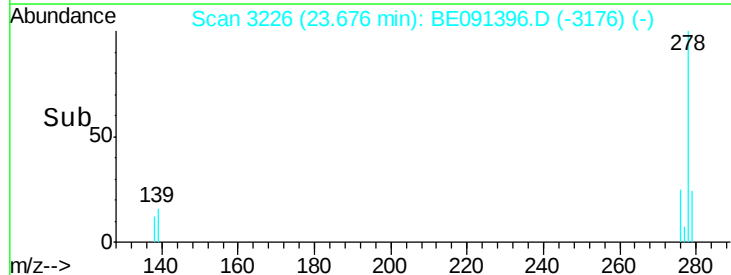
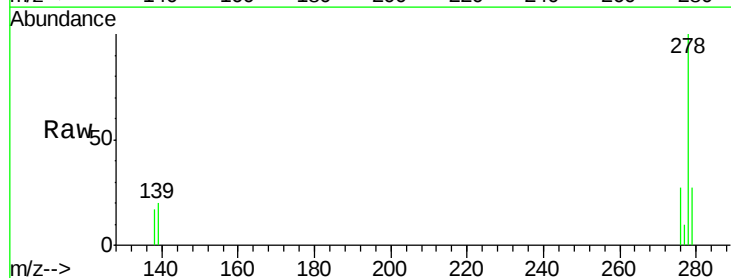
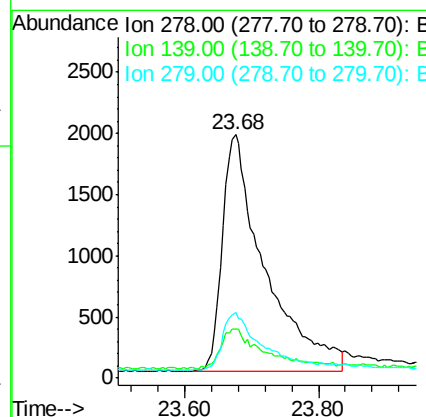
Manual Integrations
APPROVED

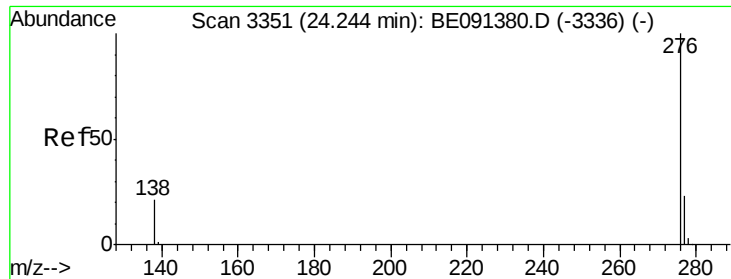
Sohil
2/8/2016 3:04:06 PM



#28
Dibenzo(a,h)anthracene
Concen: 0.34 ng
RT: 23.68 min Scan# 3226
Delta R.T. 0.03 min
Lab File: BE091396.D
Acq: 5 Feb 2016 11:57

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.2	13.0	19.4#
279	27.0	19.2	28.8





#29

Benzo(a,h,i)perylene

Concen: 0.25 ng

RT: 24.27 min Scan# 3356

Delta R.T. 0.02 min

Lab File: BE091396.D

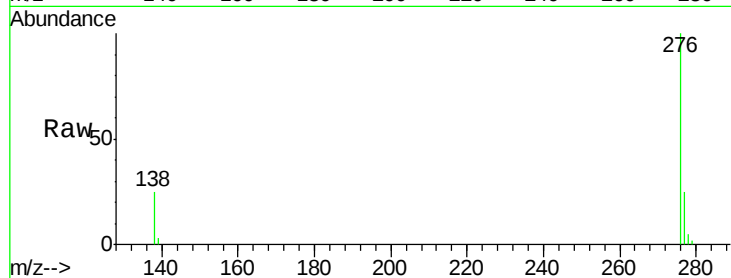
Acq: 5 Feb 2016 11:57

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2016-02



Tot Ion:	276	Resp:	11151
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.9	28.3
138	24.7	17.0	25.6

Manual Integrations
APPROVED

Sohil
2/8/2016 3:04:06 PM

