Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
Data File : BE091408.D
Acq On : 17 Feb 2016 17:30
Operator : UM/IZ
Sample : H1445-01MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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2/18/2016 9:53:09 AM

Quant Time: Feb 18 00:17:21 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	6.85	152	40497	5.00	ng		-0.02
4) Naphthalene-d8	9.52	136	202761	5.00	ng		-0.02
8) Acenaphthene-d10	13.34	164	126622	5.00	ng		-0.02
14) Phenanthrene-d10	16.08	188	295583	5.00	ng		-0.01
18) Chrysene-d12	20.21	240	331003	5.00	ng		0.00
24) Perylene-d12	22.09	264	337599	5.00	ng		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.89	112	72756	7.58	ng		-0.05
3) Phenol-d6	6.51	99	109483	8.04	ng		-0.05
5) Nitrobenzene-d5	8.12	82	70003	5.20	ng		-0.05
9) 2,4,6-Tribromophenol	14.88	330	53346	8.58	ng		-0.03
10) 2-Fluorobiphenyl	11.98	172	170069	5.16	ng		-0.03
20) Terphenyl-d14	18.60	244	265946	5.43	ng		-0.02
Target Compounds							Qvalue
6) Naphthalene	9.57	128	195003	4.26	ng		99
7) 2-Methylnaphthalene	11.09	142	144159	5.06	ng		98
11) Acenaphthylene	13.08	152	1049481	4.76	ng		100
12) Acenaphthene	13.40	154	167005	4.80	ng		92
13) Fluorene	14.39	166	262308	5.84	ng		98
15) Phenanthrene	16.12	178	897530	11.57	ng		99
16) Anthracene	16.20	178	492242m	7.57	ng		
17) Fluoranthene	18.07	202	1021131	12.36	ng		98
19) Pyrene	18.46	202	969226	13.51	ng		99
21) Benzo(a)anthracene	20.18	228	621866	8.31	ng		97
22) Chrysene	20.24	228	604552	7.40	ng		97
23) Indeno(1,2,3-cd)pyrene	23.68	276	503828	6.63	ng		99
25) Benzo(b)fluoranthene	21.54	252	532847	6.30	ng	#	97
26) Benzo(k)fluoranthene	21.56	252	590796	7.00	ng	#	96
27) Benzo(a)pyrene	21.99	252	581977	7.40	ng	#	97
28) Dibenzo(a,h)anthracene	23.62	278	395347	5.13	ng		98
29) Benzo(g,h,i)perylene	24.23	276	530886	6.29	ng		99

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
Data File : BE091408.D
Acq On : 17 Feb 2016 17:30
Operator : UM/IZ
Sample : H1445-01MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 00:17:21 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

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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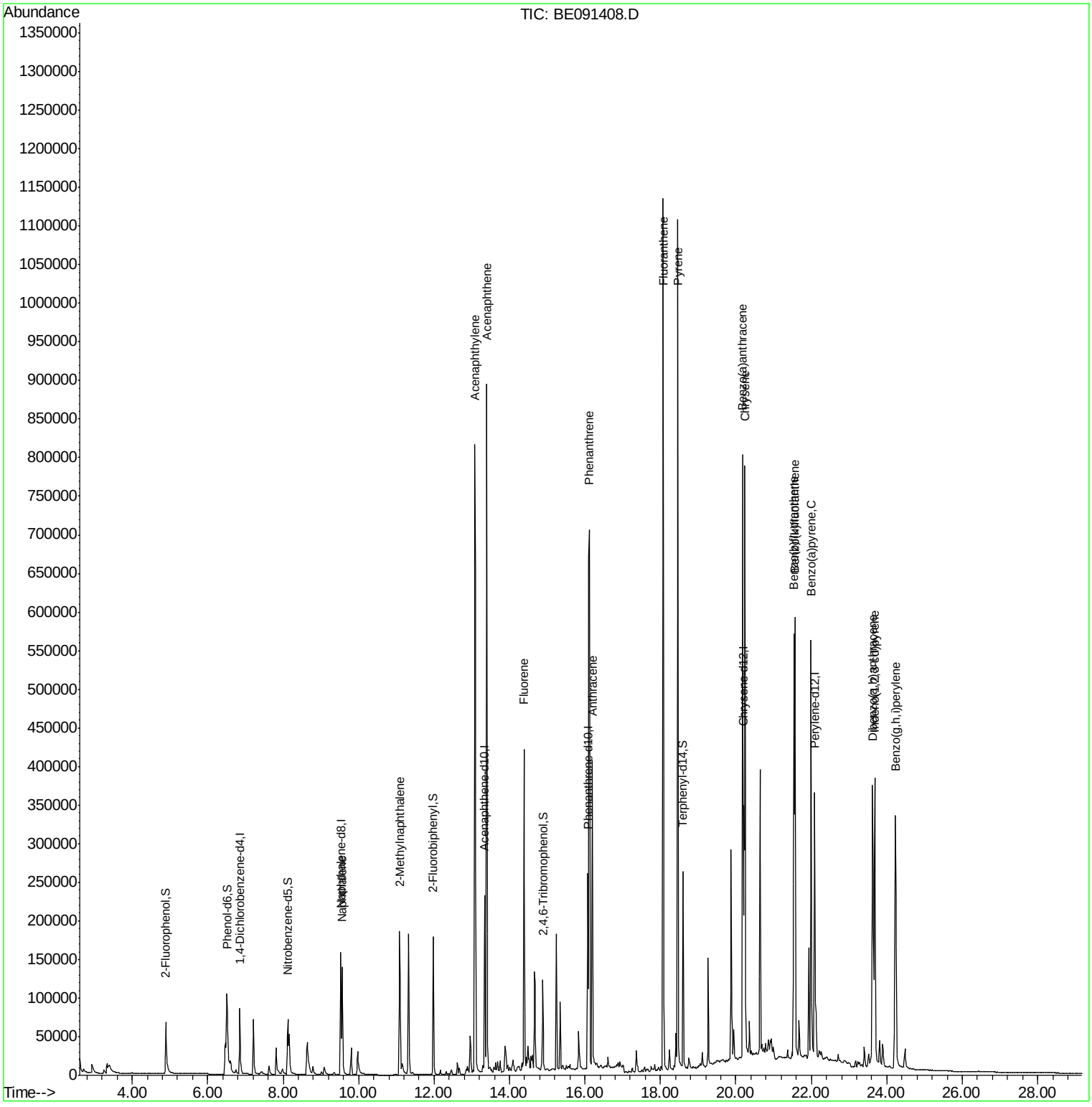
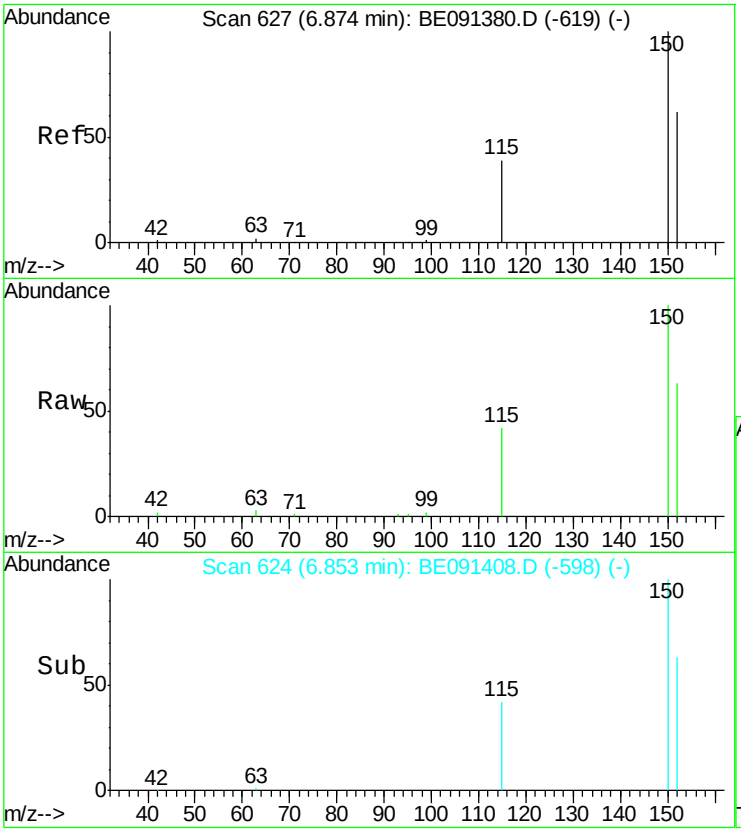
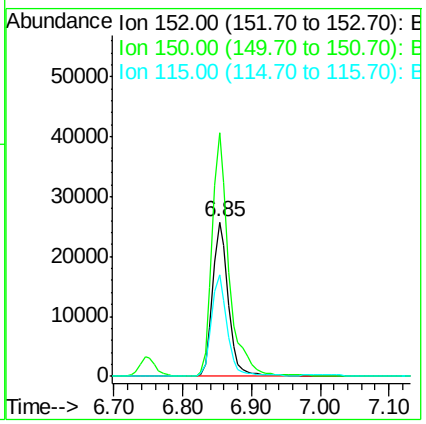




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.85 min Scan# 624
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:152 Resp: 40497

Ion	Ratio	Lower	Upper
152	100		
150	157.6	128.9	193.3
115	66.0	50.9	76.3



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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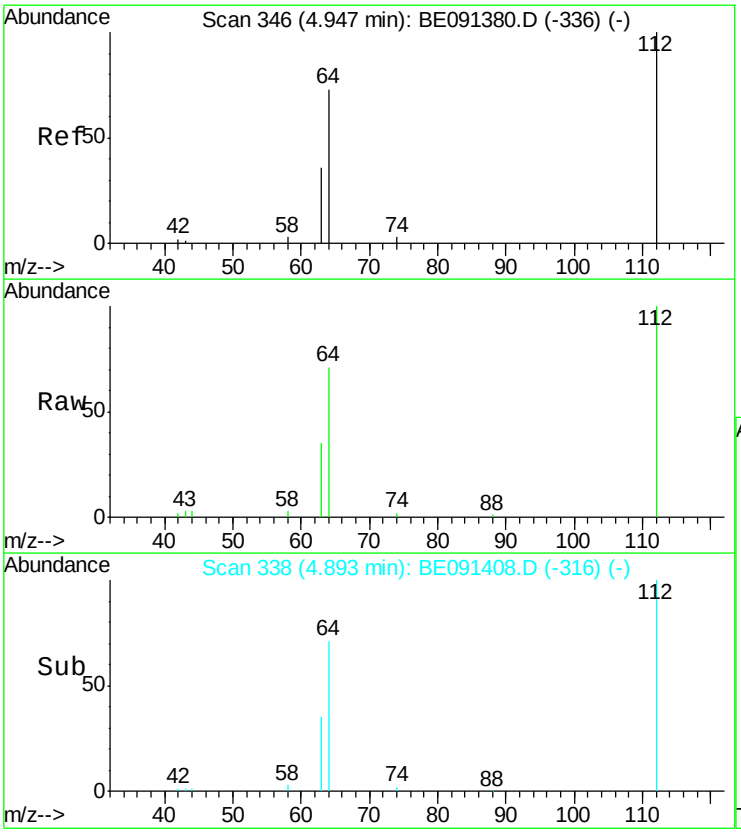
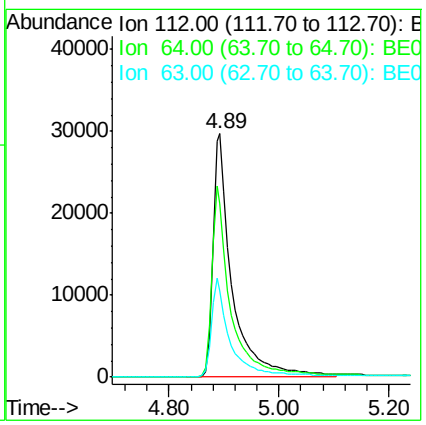
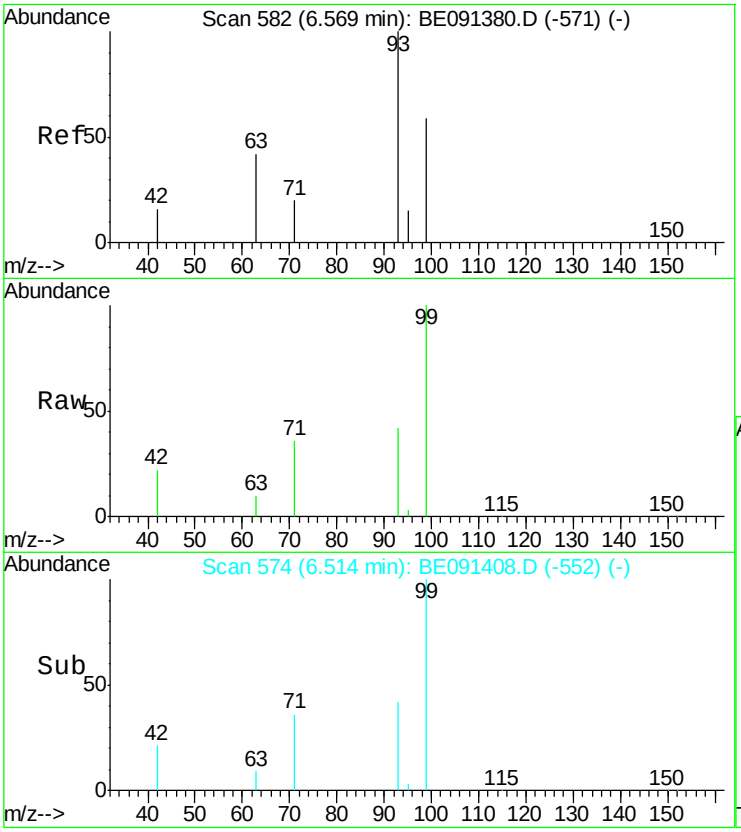


#2
2-Fluorophenol
Concen: 7.58 ng
RT: 4.89 min Scan# 338
Delta R.T. -0.05 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:112 Resp: 72756

Ion	Ratio	Lower	Upper
112	100		
64	76.3	60.5	90.7
63	39.0	29.8	44.8

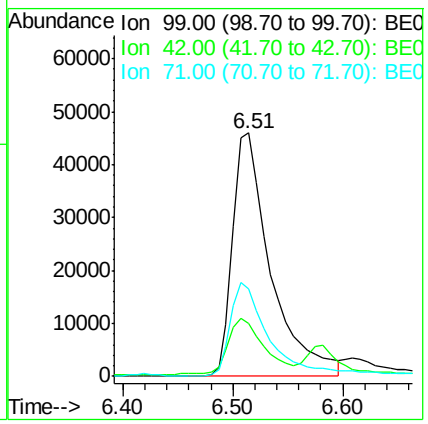




#3
Phenol-d6
Concen: 8.04 ng
RT: 6.51 min Scan# 574
Delta R.T. -0.05 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion: 99 Resp: 109483

Ion	Ratio	Lower	Upper
99	100		
42	22.6	13.3	19.9#
71	40.4	25.6	38.4#



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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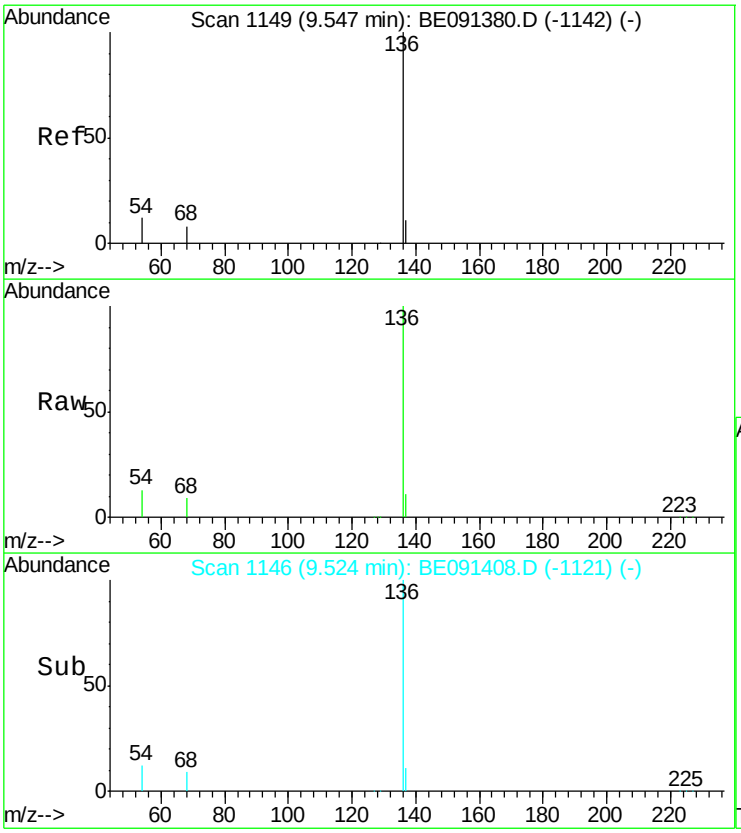
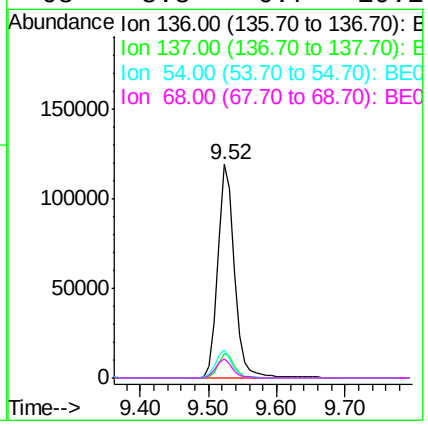
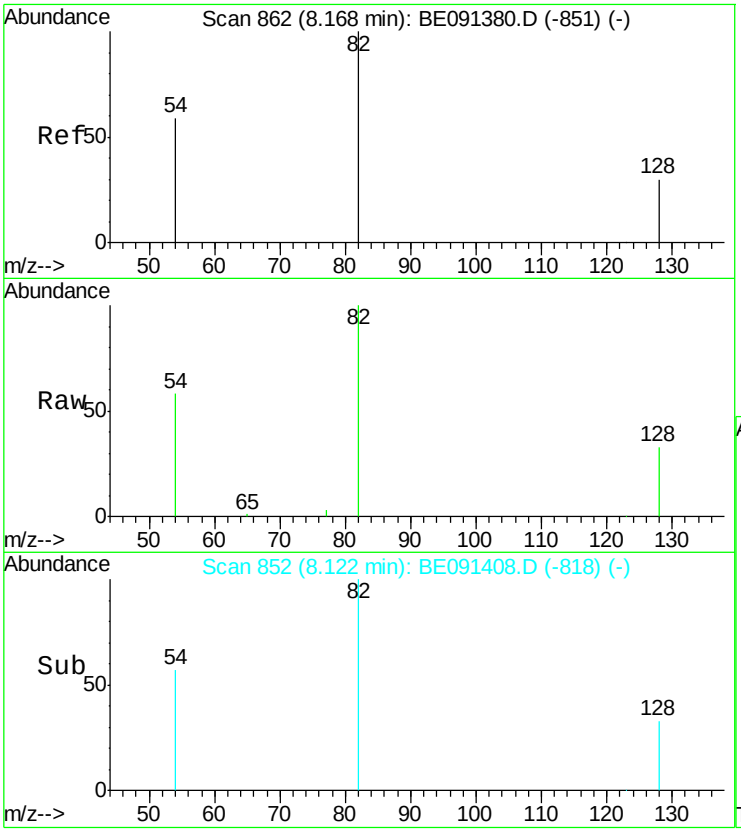


#4
Naphthalene-d8
Concen: 5.00 ng
RT: 9.52 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:136 Resp: 202761

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	12.9	9.3	13.9
68	8.8	6.7	10.1

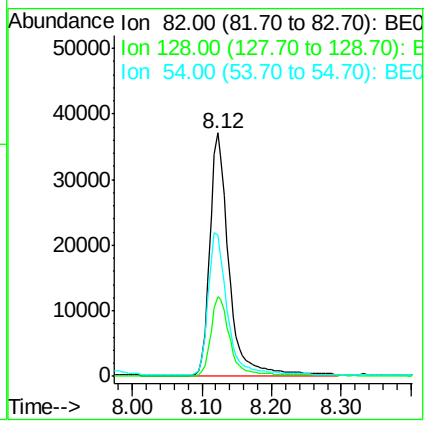




#5
Nitrobenzene-d5
Concen: 5.20 ng
RT: 8.12 min Scan# 852
Delta R.T. -0.05 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion: 82 Resp: 70003

Ion	Ratio	Lower	Upper
82	100		
128	32.6	25.0	37.4
54	58.2	48.1	72.1



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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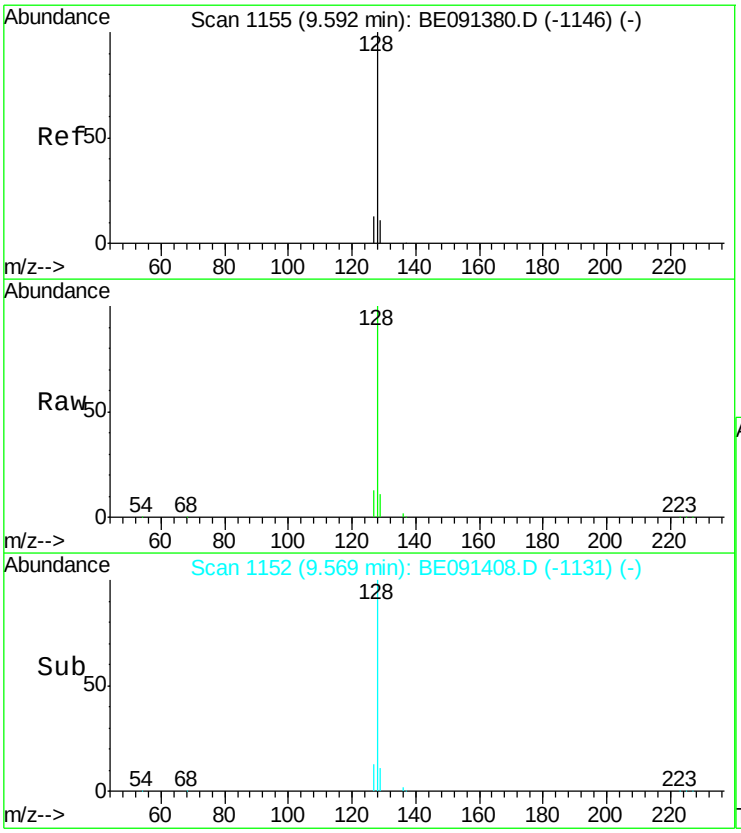
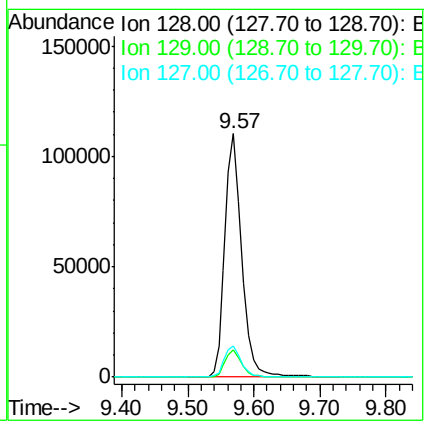
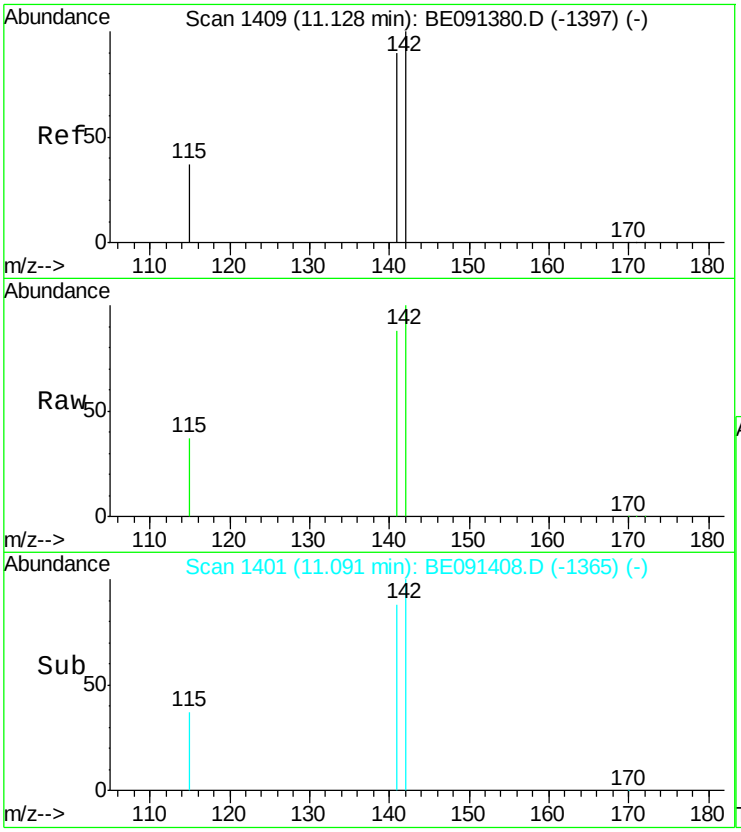


#6
Naphthalene
Concen: 4.26 ng
RT: 9.57 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:128 Resp: 195003

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	12.9	10.5	15.7

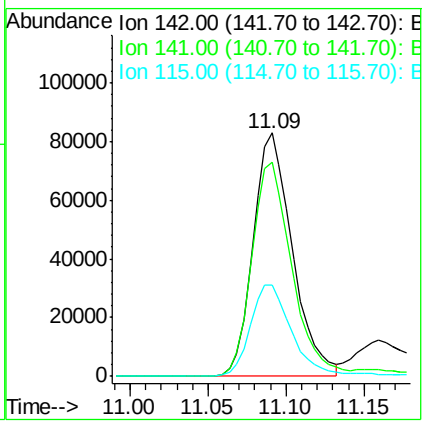




#7
2-Methylnaphthalene
Concen: 5.06 ng
RT: 11.09 min Scan# 1401
Delta R.T. -0.04 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:142 Resp: 144159

Ion	Ratio	Lower	Upper
142	100		
141	87.9	72.3	108.5
115	37.2	30.5	45.7



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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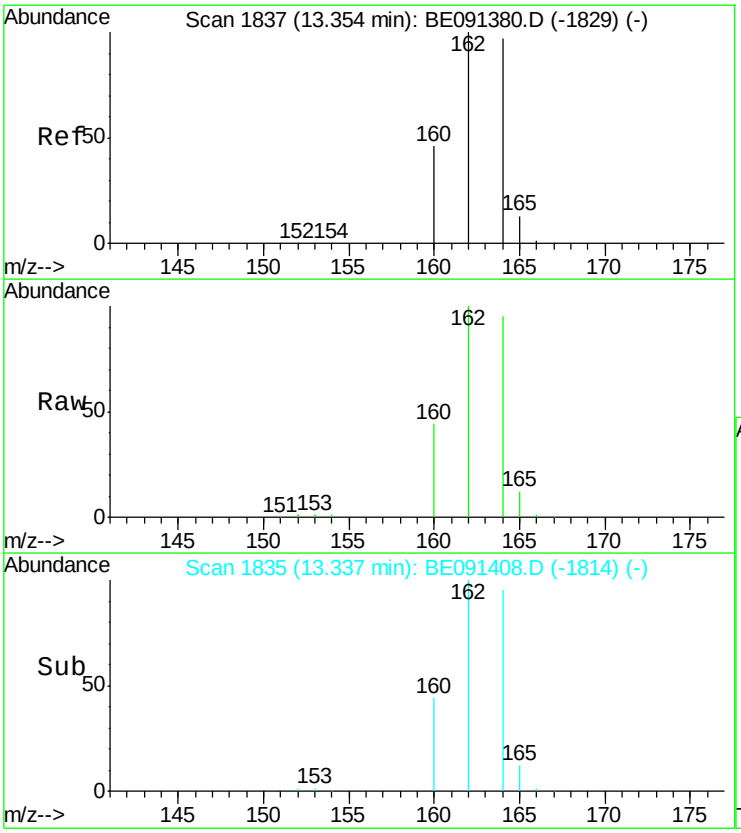
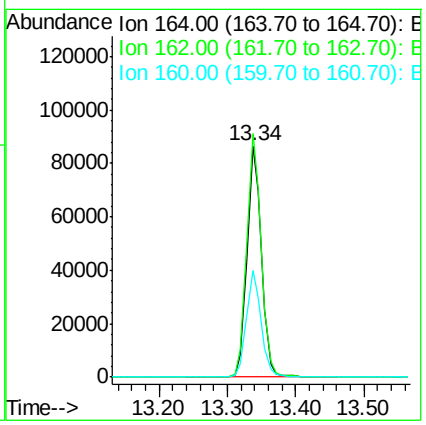
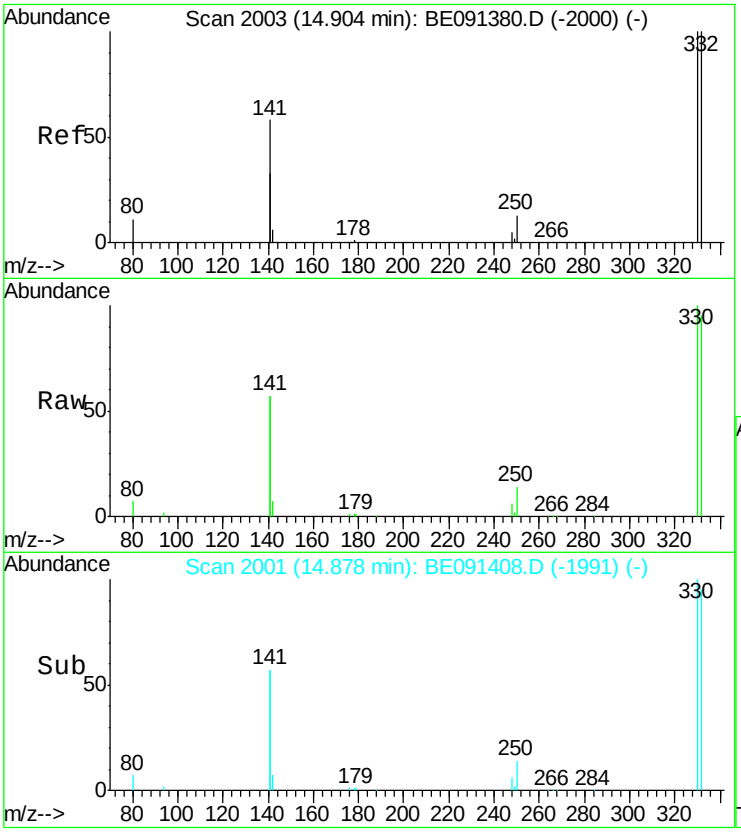


#8
Acenaphthene-d10
Concen: 5.00 ng
RT: 13.34 min Scan# 1835
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:164 Resp: 126622

Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.2	123.2
160	46.2	37.8	56.8

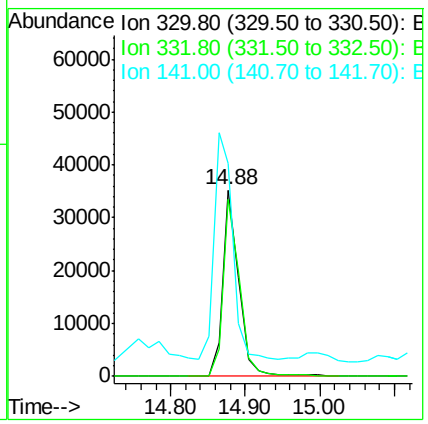




#9
2,4,6-Tribromophenol
Concen: 8.58 ng
RT: 14.88 min Scan# 2001
Delta R.T. -0.03 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:330 Resp: 53346

Ion	Ratio	Lower	Upper
330	100		
332	114.1	78.8	118.2
141	159.1	105.1	157.7#



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

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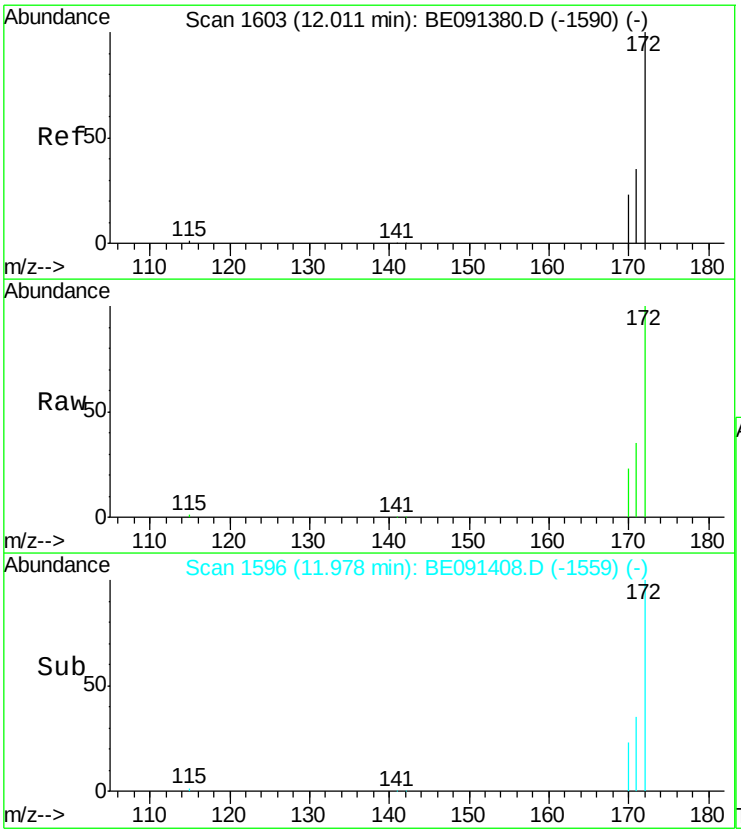
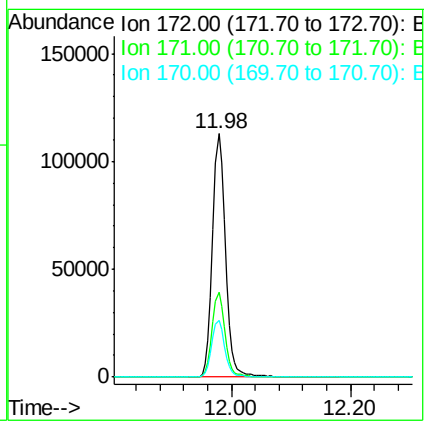
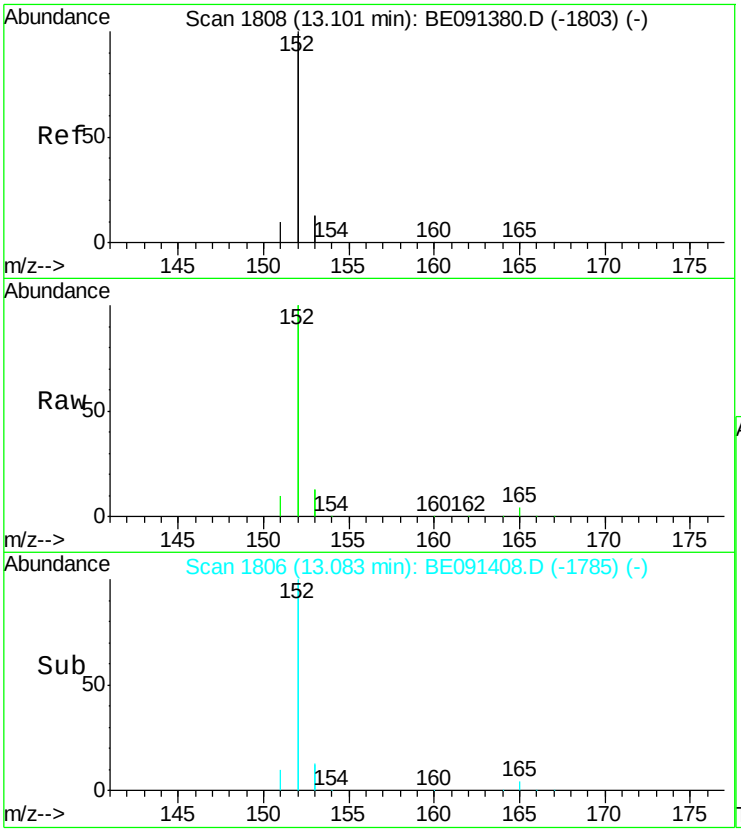


#10
2-Fluorobiphenyl
Concen: 5.16 ng
RT: 11.98 min Scan# 1596
Delta R.T. -0.03 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:172 Resp: 170069

Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.8	41.8
170	23.3	18.6	28.0

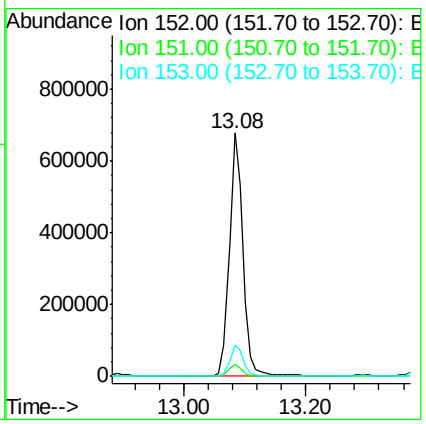




#11
Acenaphthylene
Concen: 4.76 ng
RT: 13.08 min Scan# 1806
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:152 Resp: 1049481

Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.8	5.8
153	12.7	10.2	15.4



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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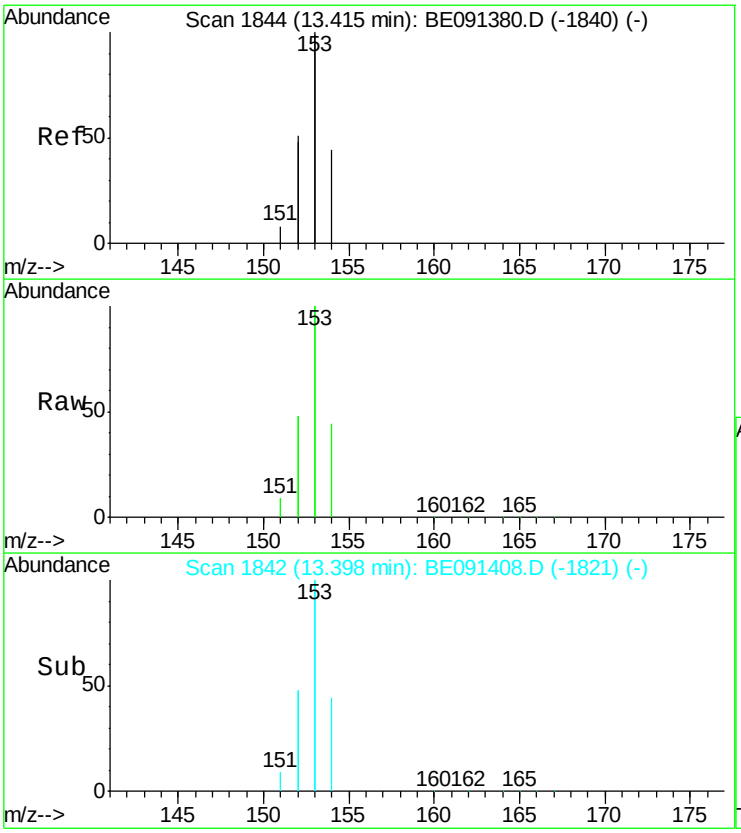
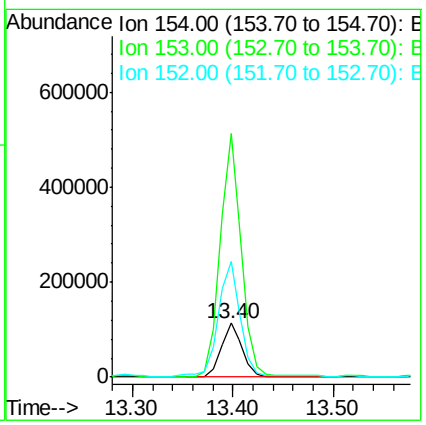
2/18/2016 9:53:09 AM

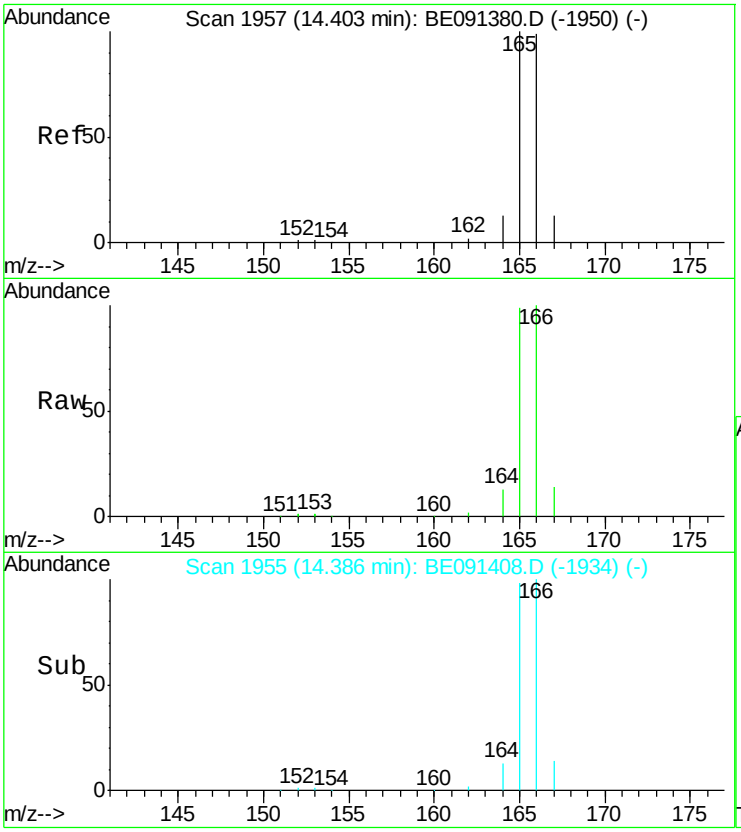


#12
Acenaphthene
Concen: 4.80 ng
RT: 13.40 min Scan# 1842
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:154 Resp: 167005

Ion	Ratio	Lower	Upper
154	100		
153	449.7	369.8	554.8
152	219.9	194.4	291.6

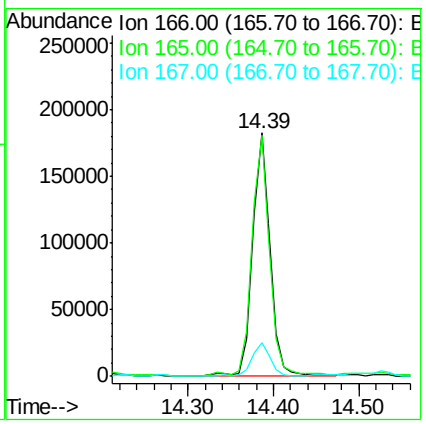




#13
Fluorene
Concen: 5.84 ng
RT: 14.39 min Scan# 1955
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:166 Resp: 262308

Ion	Ratio	Lower	Upper
166	100		
165	97.2	79.3	118.9
167	14.1	10.6	16.0



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

Manual Integrations APPROVED
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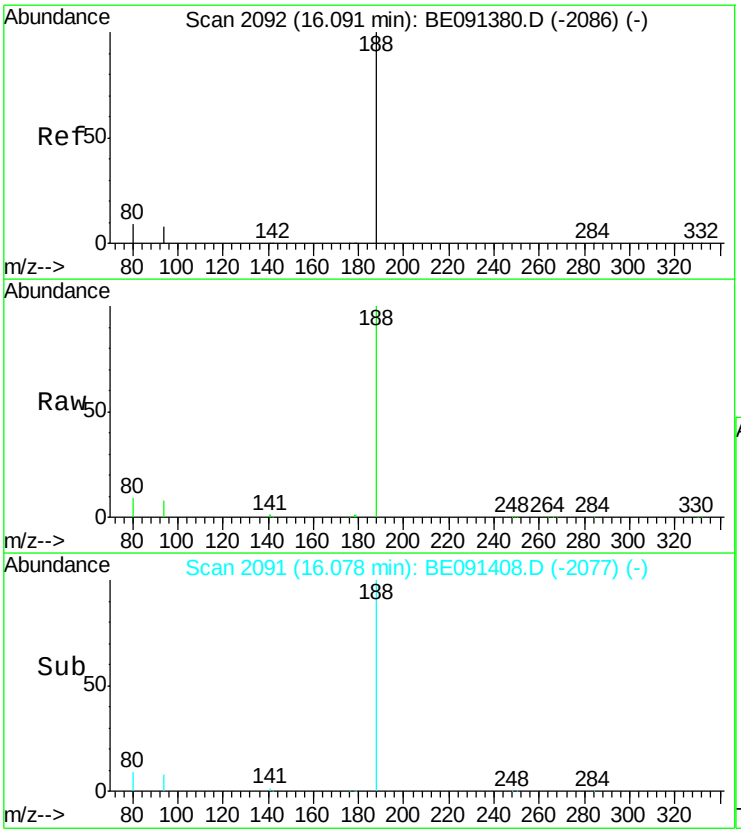
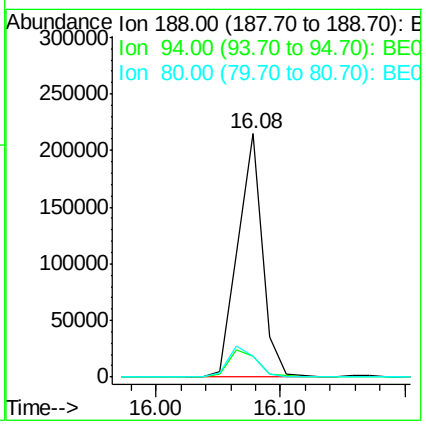
2/18/2016 9:53:09 AM

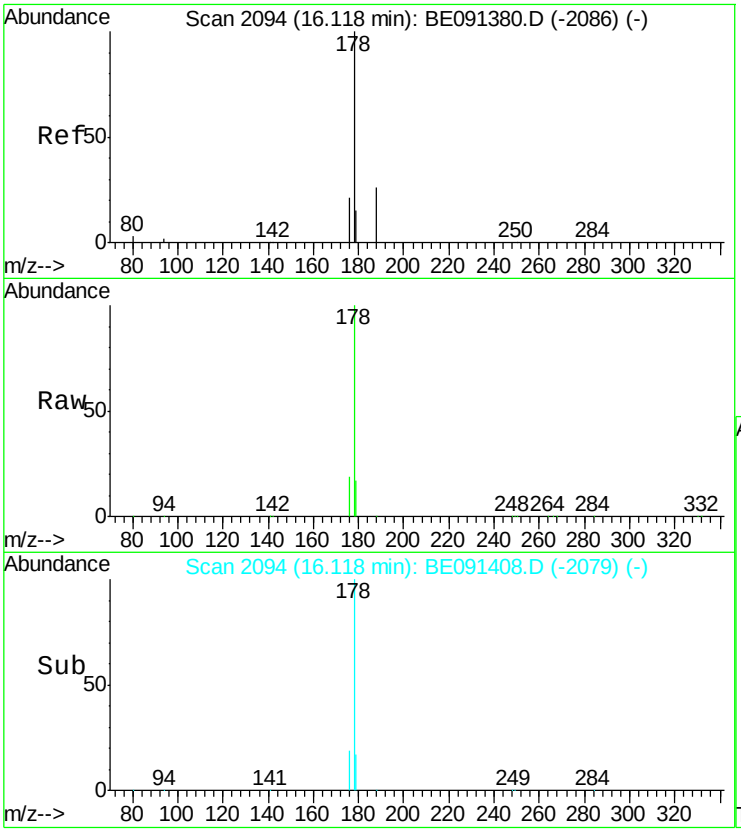


#14
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.08 min Scan# 2091
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:188 Resp: 295583

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	8.8	7.0	10.6

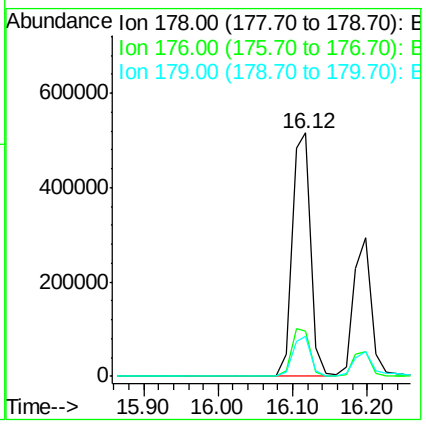




#15
Phenanthrene
Concen: 11.57 ng
RT: 16.12 min Scan# 2094
Delta R.T. -0.00 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

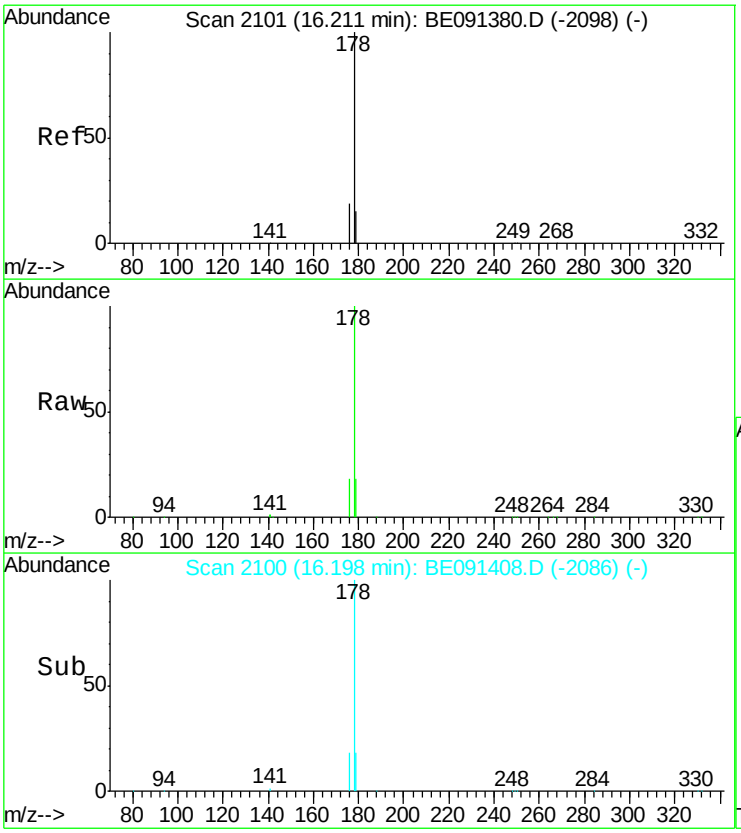
Tgt Ion:178 Resp: 897530

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	16.1	12.7	19.1



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

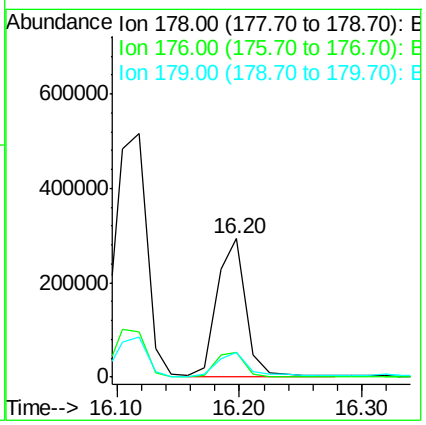
Manual Integrations APPROVED
UMANGI
2/18/2016 9:53:09 AM

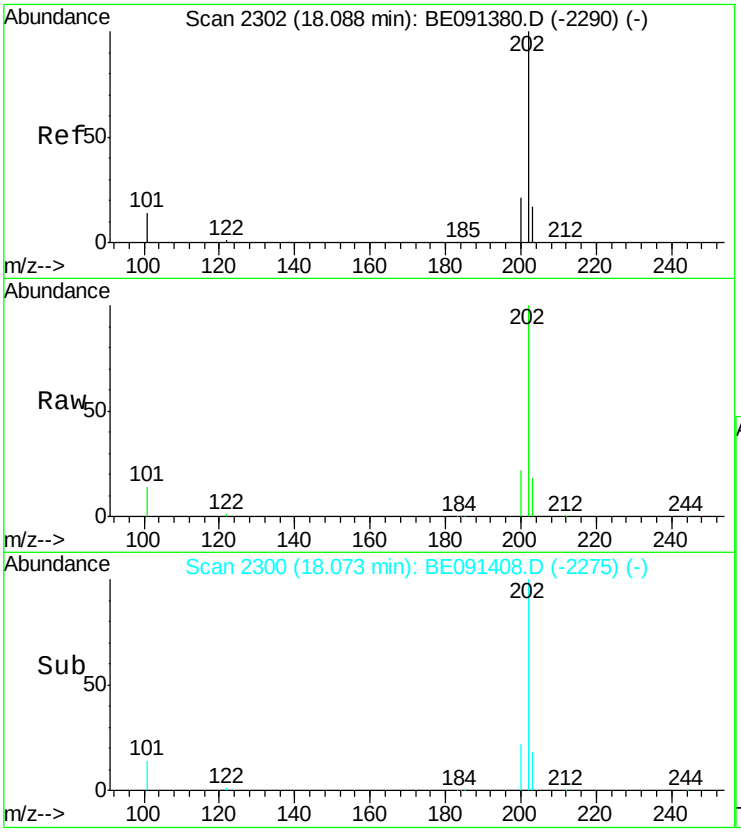


#16
Anthracene
Concen: 7.57 ng m
RT: 16.20 min Scan# 2100
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:178 Resp: 492242

Ion	Ratio	Lower	Upper
178	100		
176	35.6	14.8	22.2#
179	29.0	12.1	18.1#

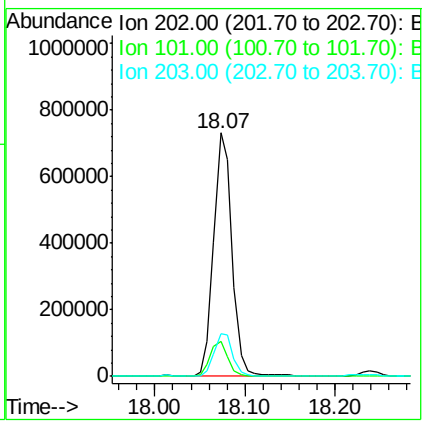




#17
Fluoranthene
Concen: 12.36 ng
RT: 18.07 min Scan# 2300
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:202 Resp: 1021131

Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.5	15.7
203	18.0	13.9	20.9



Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005MS

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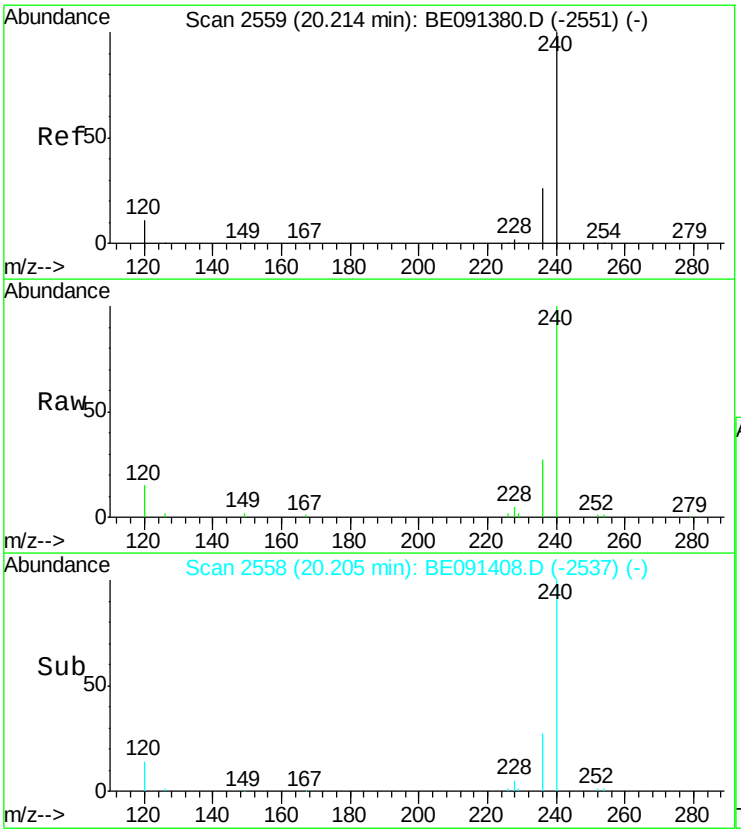
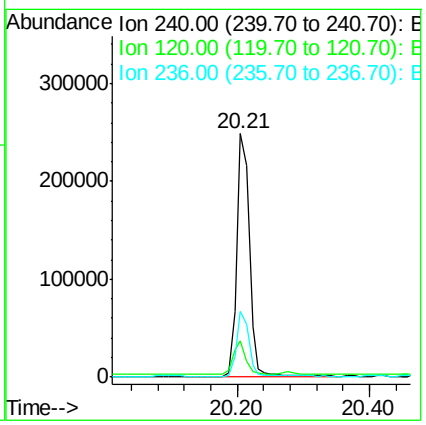
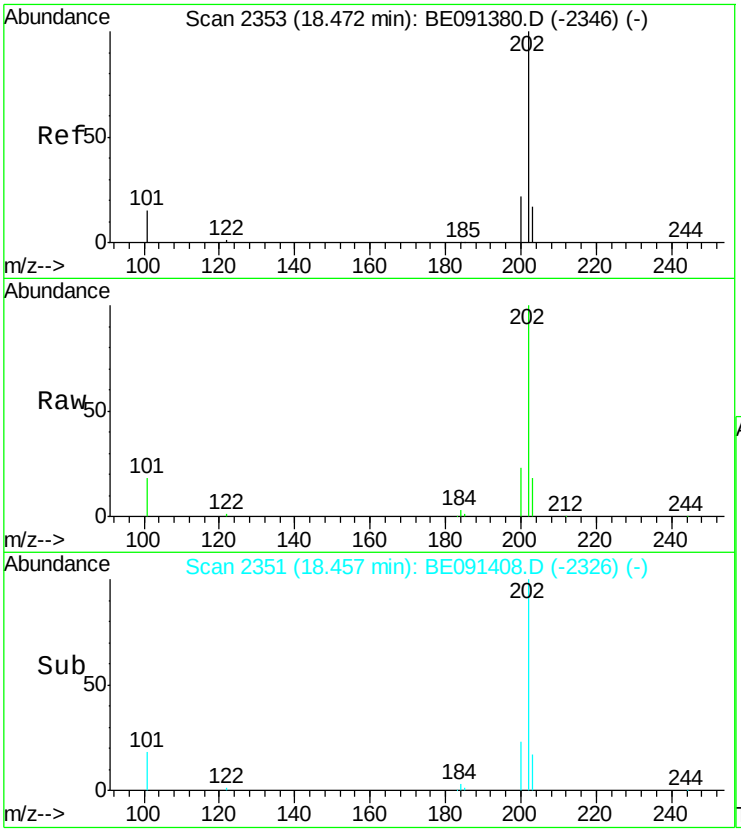


#18
Chrysene-d12
Concen: 5.00 ng
RT: 20.21 min Scan# 2558
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:240 Resp: 331003

Ion	Ratio	Lower	Upper
240	100		
120	15.0	8.9	13.3#
236	26.8	21.0	31.4

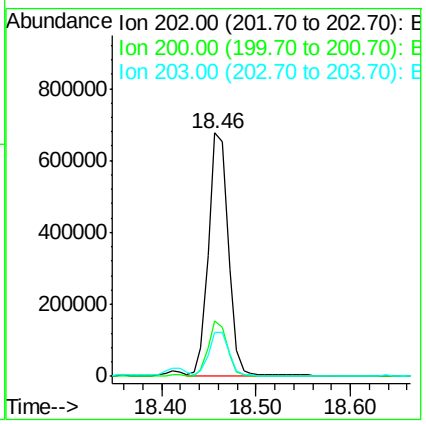




#19
Pyrene
Concen: 13.51 ng
RT: 18.46 min Scan# 2351
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:202 Resp: 969226

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.8	25.2
203	18.0	14.0	21.0



Instrument :
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ClientSampleId :
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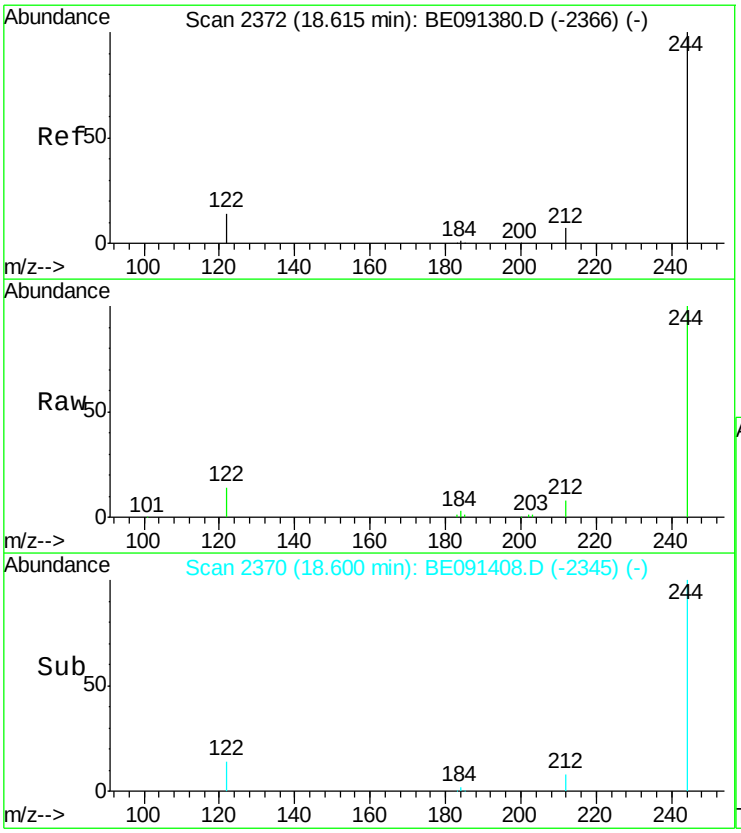
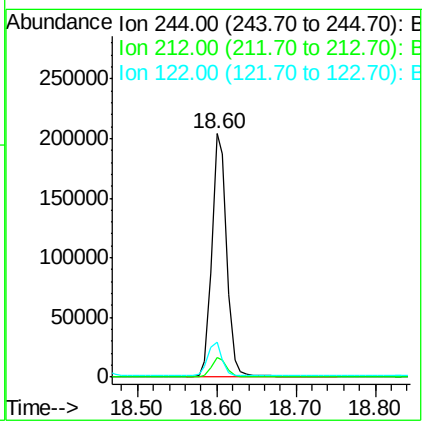
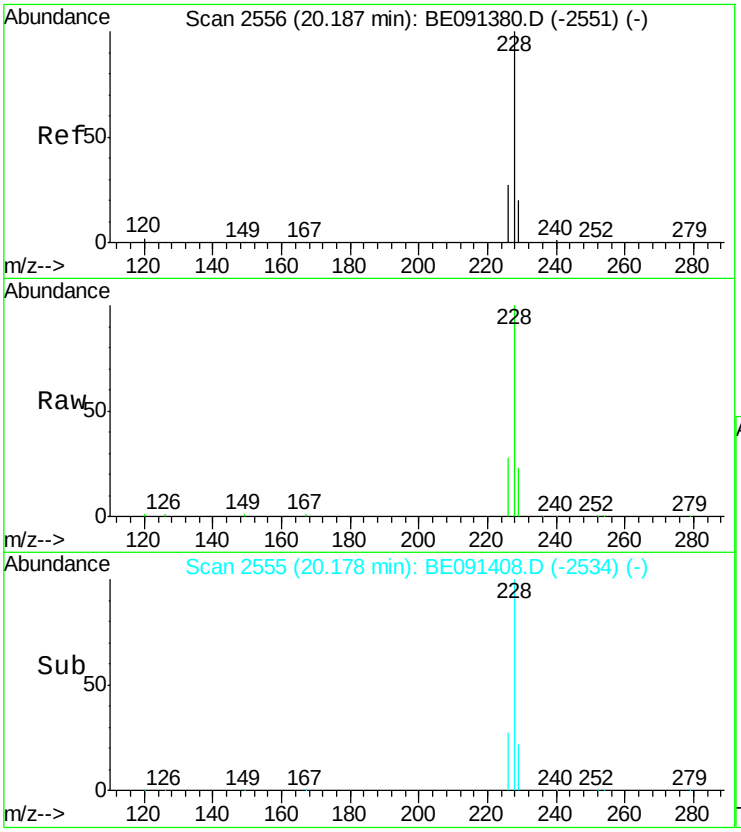


#20
Terphenyl-d14
Concen: 5.43 ng
RT: 18.60 min Scan# 2370
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:244 Resp: 265946

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.1	9.1
122	14.2	11.0	16.6

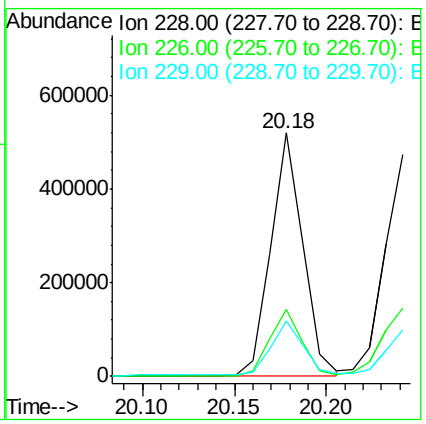




#21
Benzo(a)anthracene
Concen: 8.31 ng
RT: 20.18 min Scan# 2555
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:228 Resp: 621866

Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.7	32.5
229	22.8	16.1	24.1



Instrument :
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ClientSampleId :
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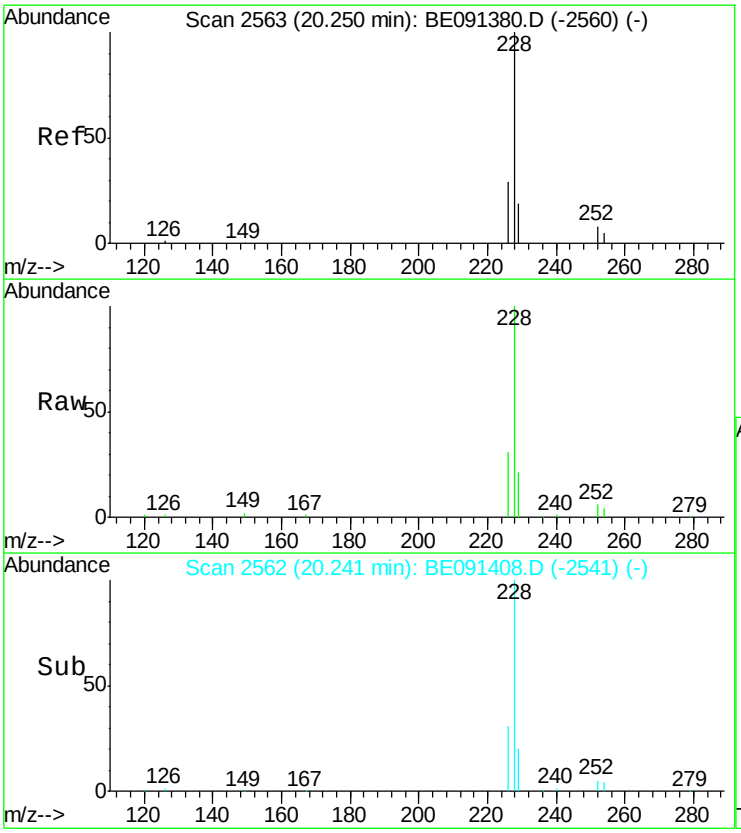
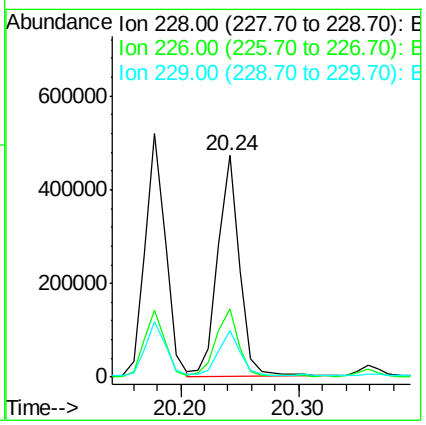
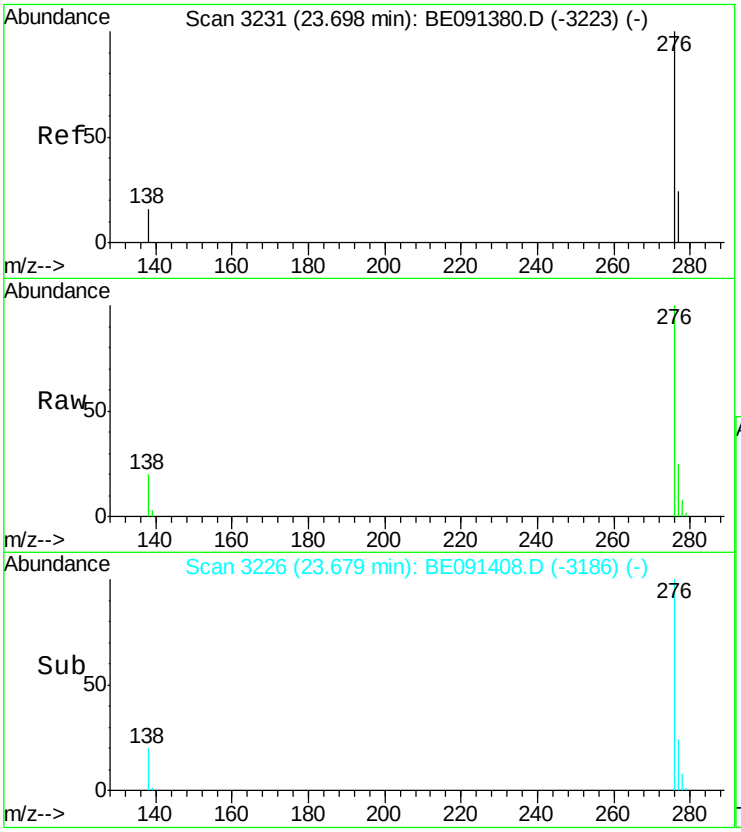


#22
Chrysene
Concen: 7.40 ng
RT: 20.24 min Scan# 2562
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:228 Resp: 604552

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.4	35.0
229	20.8	15.7	23.5

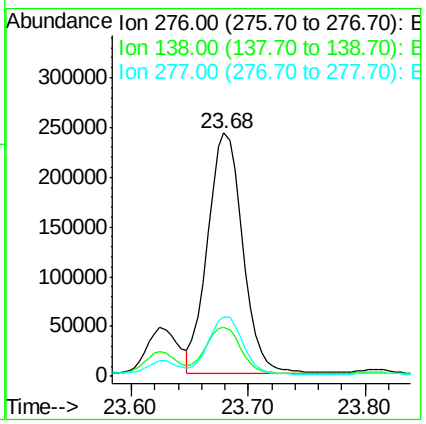




#23
Indeno(1,2,3-cd)pyrene
Concen: 6.63 ng
RT: 23.68 min Scan# 3226
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:276 Resp: 503828

Ion	Ratio	Lower	Upper
276	100		
138	19.8	16.6	25.0
277	23.9	19.0	28.6



Instrument :
BNA_E
ClientSampleId :
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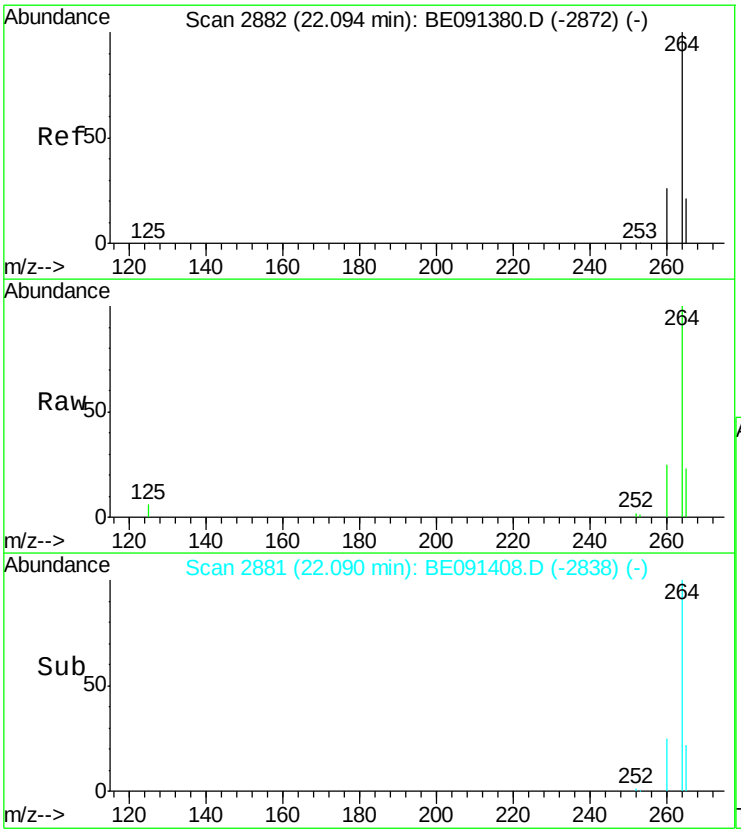
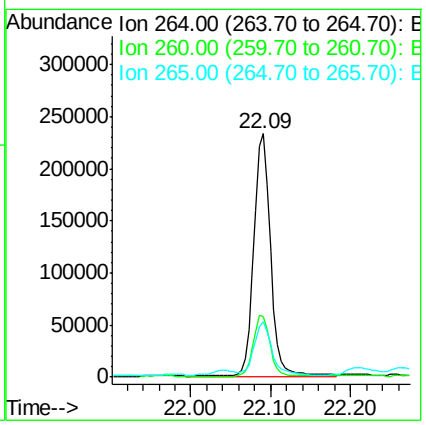
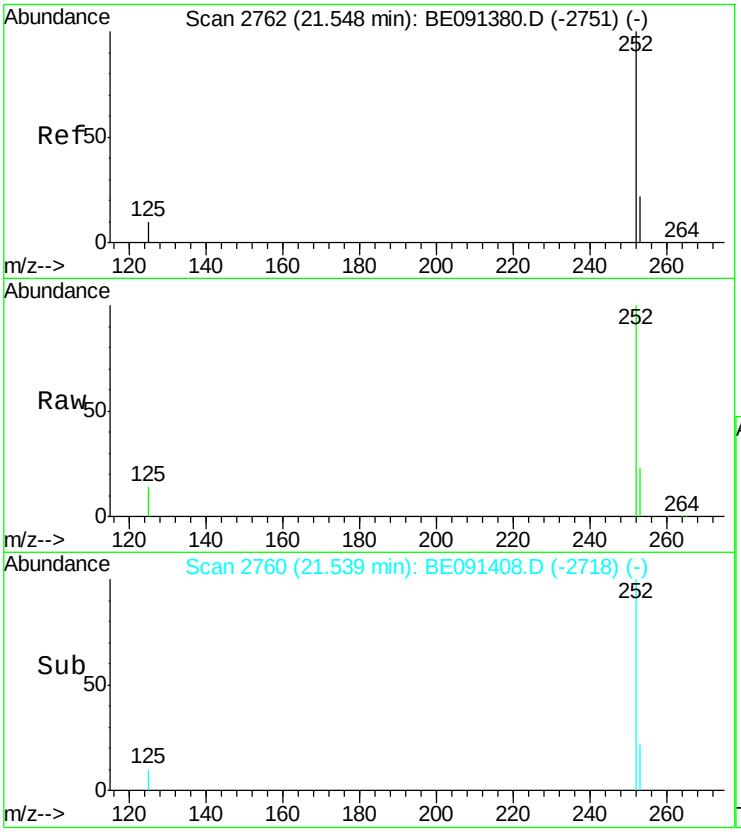


#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2881
Delta R.T. -0.00 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:264 Resp: 337599

Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.7	31.1
265	22.7	17.2	25.8





#25
Benzo(b)fluoranthene
Concen: 6.30 ng
RT: 21.54 min Scan# 2760
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:252 Resp: 532847

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	13.8	8.3	12.5#

Instrument :
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ClientSampleId :
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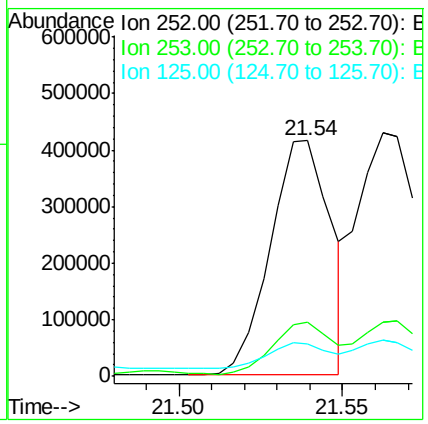
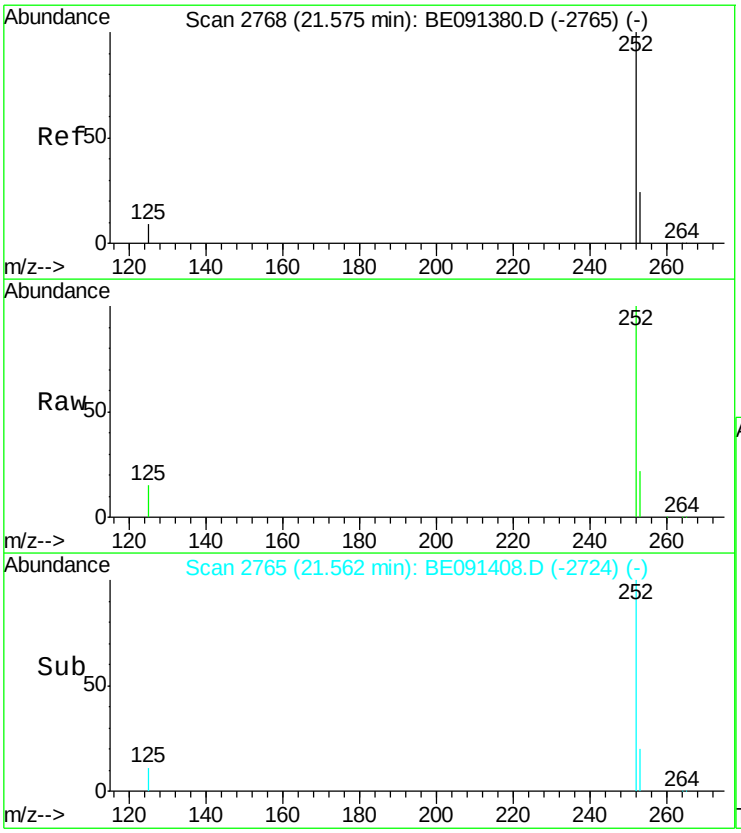
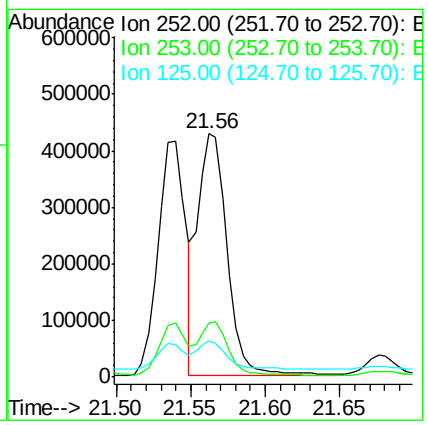


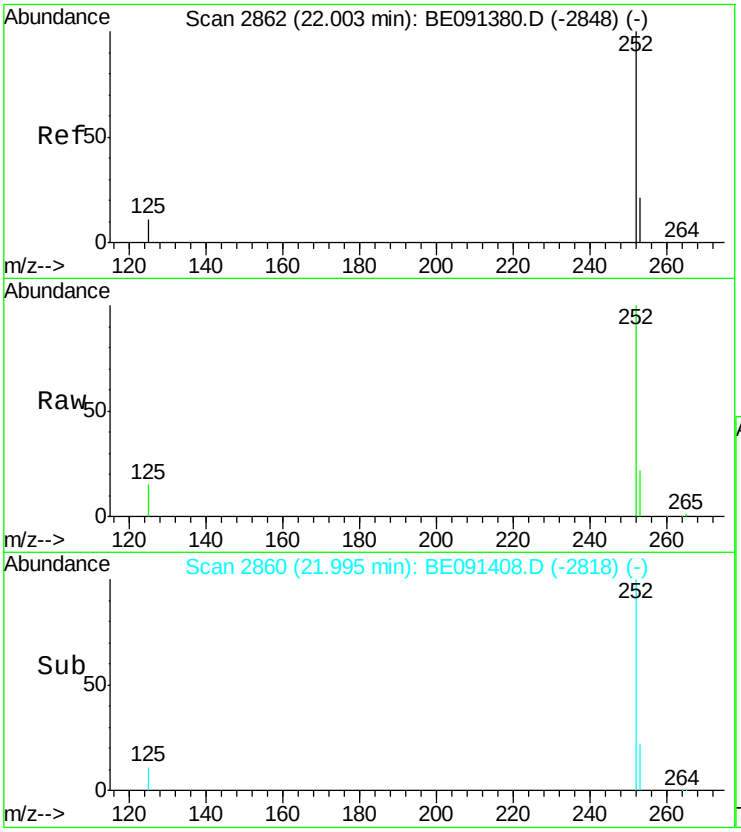


#26
Benzo(k)fluoranthene
Concen: 7.00 ng
RT: 21.56 min Scan# 2765
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:252 Resp: 590796

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	14.7	8.2	12.4#





#27
Benzo(a)pyrene
Concen: 7.40 ng
RT: 21.99 min Scan# 2860
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:252 Resp: 581977

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	14.6	9.4	14.0#

Instrument :
BNA_E
ClientSampleId :
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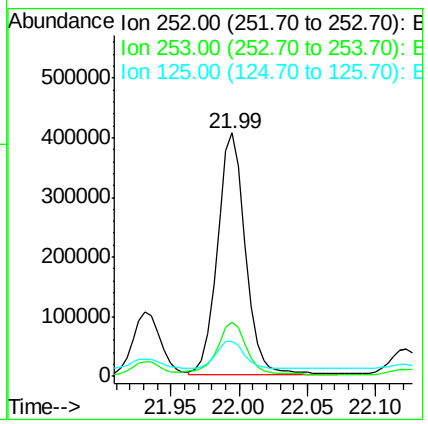
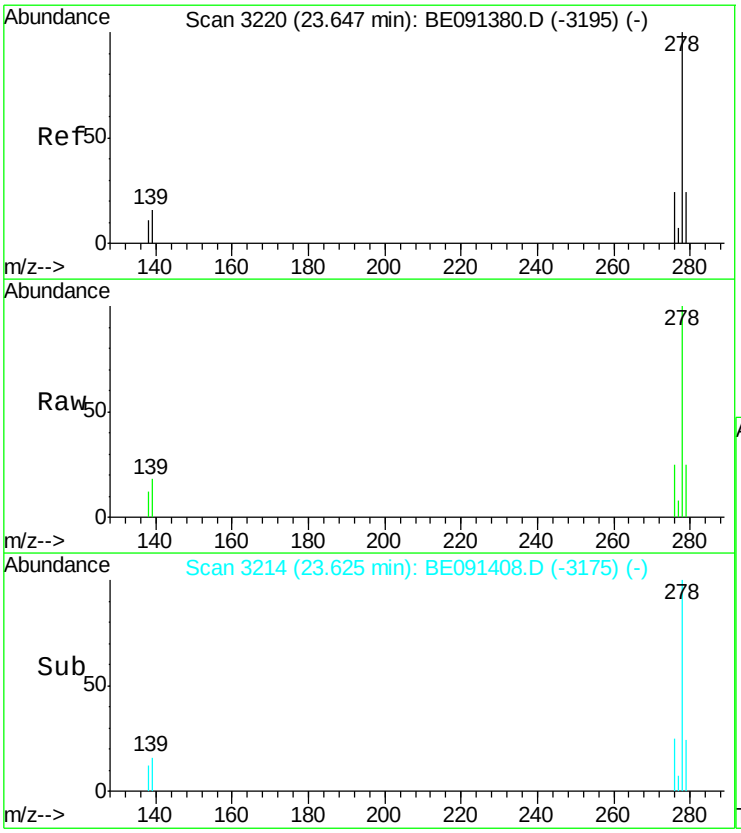
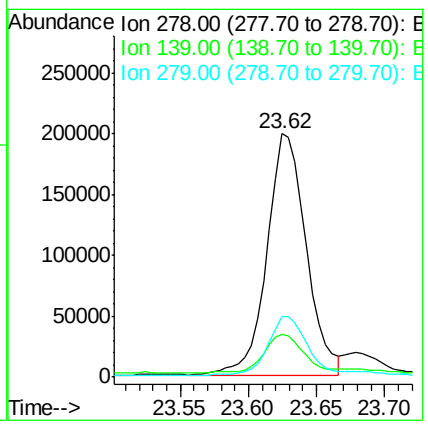


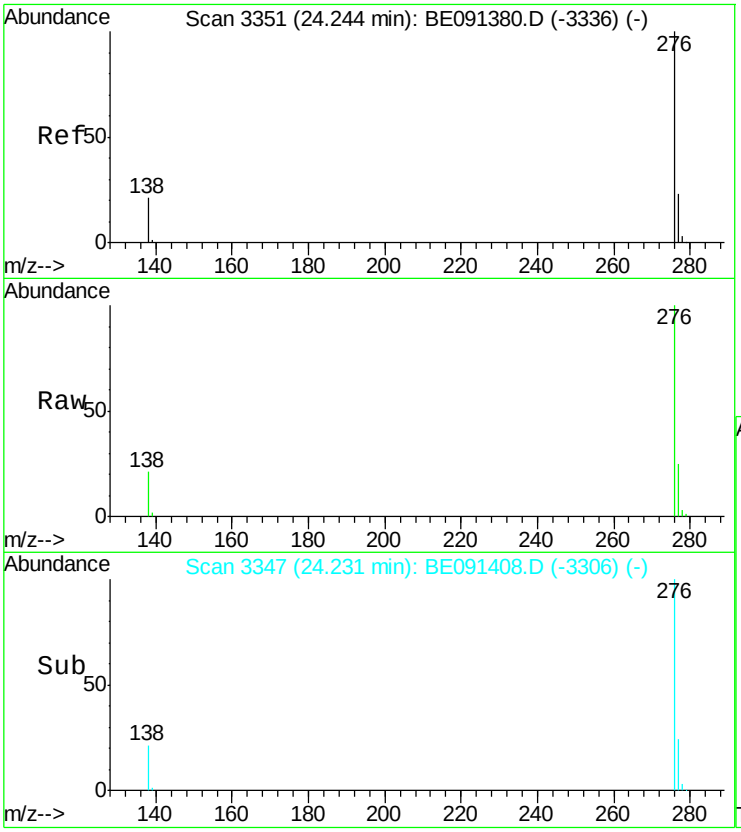


#28
Dibenzo(a,h)anthracene
Concen: 5.13 ng
RT: 23.62 min Scan# 3214
Delta R.T. -0.02 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:278 Resp: 395347

Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.0	19.4
279	24.7	19.2	28.8

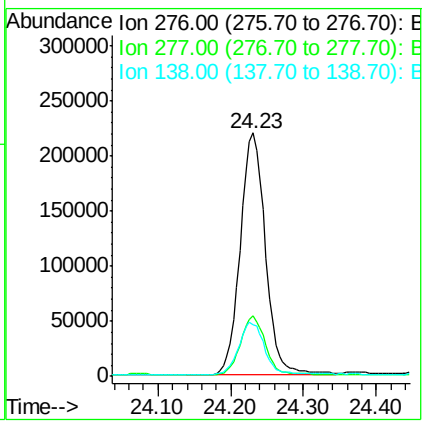




#29
Benzo(g,h,i)perylene
Concen: 6.29 ng
RT: 24.23 min Scan# 3347
Delta R.T. -0.01 min
Lab File: BE091408.D
Acq: 17 Feb 2016 17:30

Tgt Ion:276 Resp: 530886

Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.9	28.3
138	21.3	17.0	25.6



Instrument :
BNA_E
ClientSampleId :
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