

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050416\
 Data File : BF086694.D
 Acq On : 4 May 2016 23:31
 Operator : UM/SJ
 Sample : H2715-12
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-4-CS-1(0-8FTBGS)

Manual Integrations
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Quant Time: May 05 12:44:30 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:12:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	161242	40.00	ng	0.00
21) Naphthalene-d8	8.03	136	573307	40.00	ng	0.00
38) Acenaphthene-d10	9.78	164	241543	40.00	ng	0.00
63) Phenanthrene-d10	11.25	188	353683	40.00	ng	0.00
75) Chrysene-d12	13.89	240	329682	40.00	ng	0.01
86) Perylene-d12	15.28	264	249253	40.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1219675	125.23	ng	0.01
7) Phenol-d6	6.38	99	1594055	121.50	ng	0.01
23) Nitrobenzene-d5	7.31	82	1165148	104.44	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	296801	125.61	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1401486	95.11	ng	0.00
78) Terphenyl-d14	12.84	244	944325	57.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	66562	2.27	ng	98
37) 2-Methylnaphthalene	8.74	142	35927	2.08	ng	99
49) Dimethylphthalate	9.50	163	156152	8.67	ng	98
51) Acenaphthene	9.80	154	77890	5.22	ng	96
54) Dibenzofuran	9.98	168	79697	4.31	ng	94
57) Fluorene	10.32	166	104434	6.97	ng	97
70) Phenanthrene	11.29	178	967593	50.93	ng	99
71) Anthracene	11.33	178	311389	15.65	ng	99
72) Carbazole	11.49	167	58369	3.38	ng	98
74) Fluoranthene	12.46	202	943852	49.58	ng	100
77) Pyrene	12.69	202	896420	34.11	ng	99
80) Benzo(a)anthracene	13.88	228	540410	28.98	ng	100
82) Chrysene	13.92	228	343093m	17.25	ng	
85) Indeno(1,2,3-cd)pyrene	16.60	276	124592	7.30	ng	# 90
87) Benzo(b)fluoranthene	14.89	252	444542m	29.68	ng	
88) Benzo(k)fluoranthene	14.91	252	95726m	6.78	ng	
89) Benzo(a)pyrene	15.22	252	281057	20.37	ng	# 94
90) Dibenzo(a,h)anthracene	16.60	278	29337	2.21	ng	# 84
91) Benzo(a,h,i)perylene	16.99	276	113214	8.14	ng	97

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

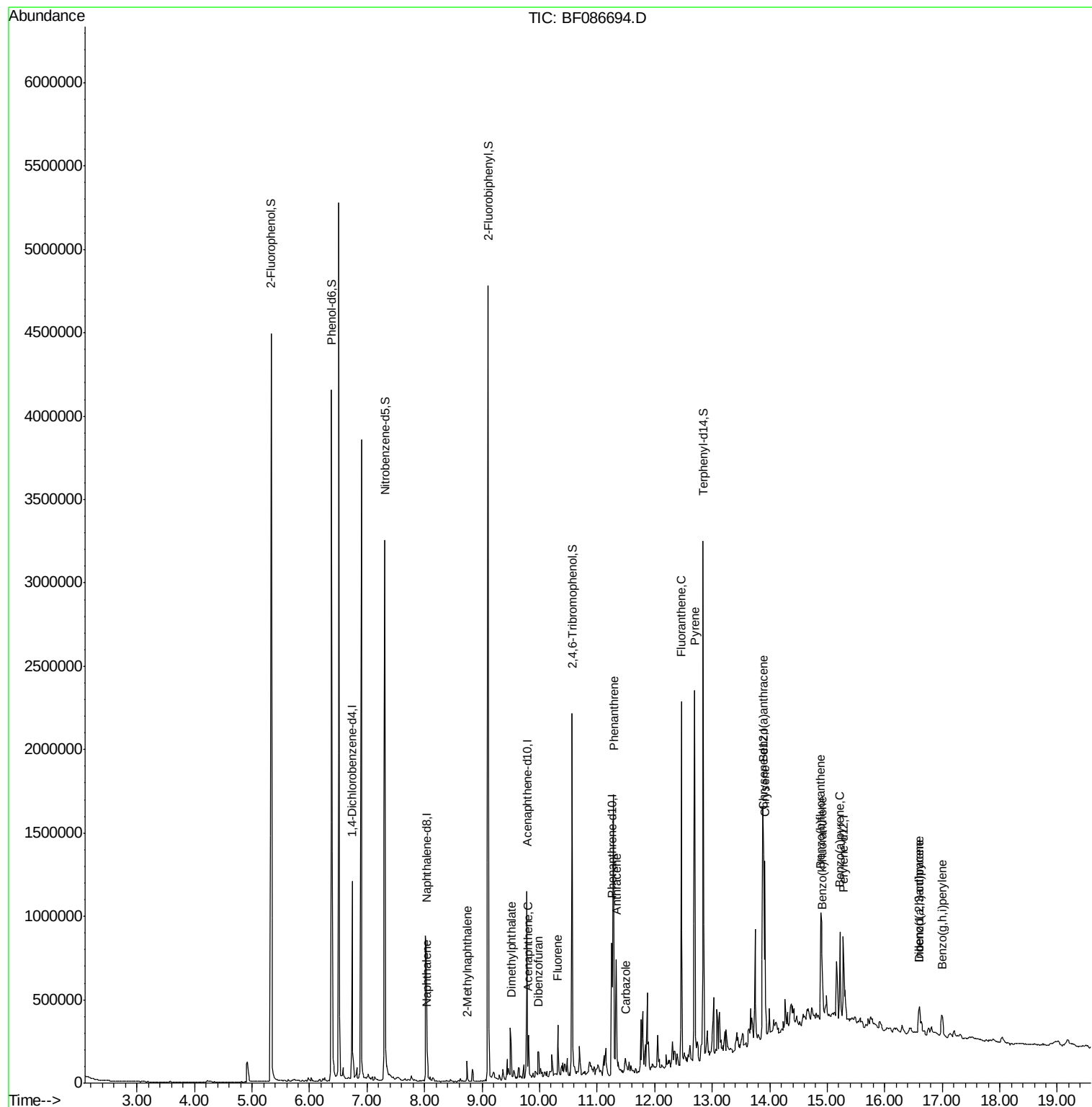
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050416\
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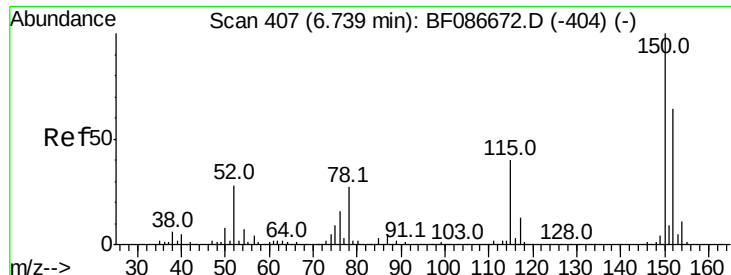
Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

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#1

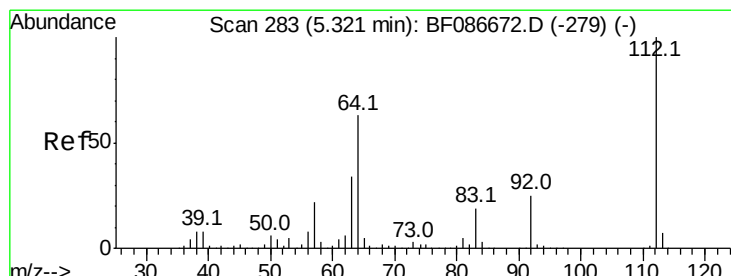
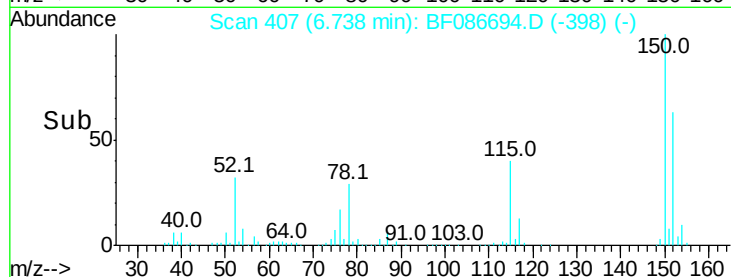
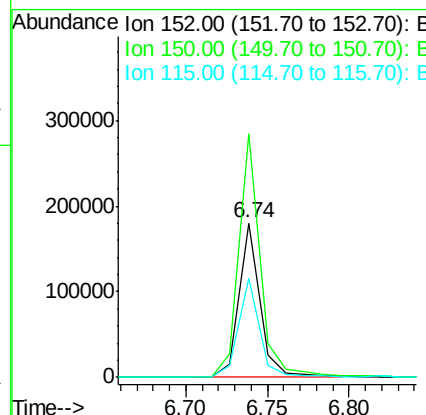
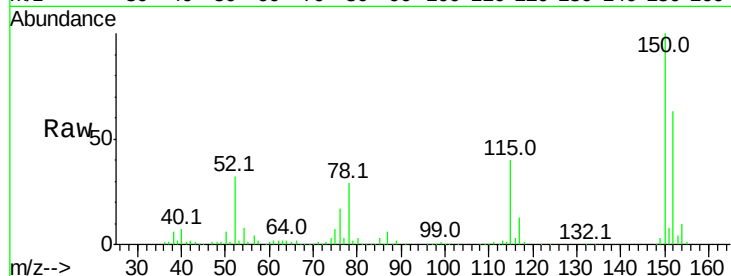
1,4-Dichlorobenzene-d4
Concen: 40.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.1	125.8	188.6
115	63.9	51.5	77.3

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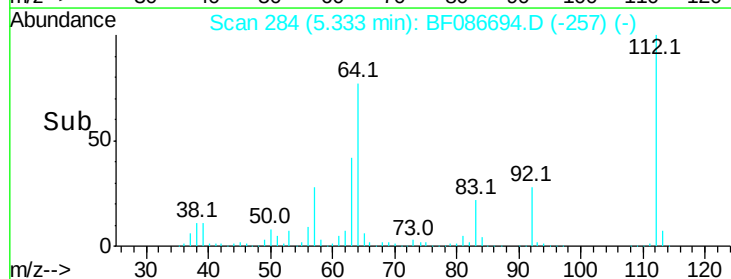
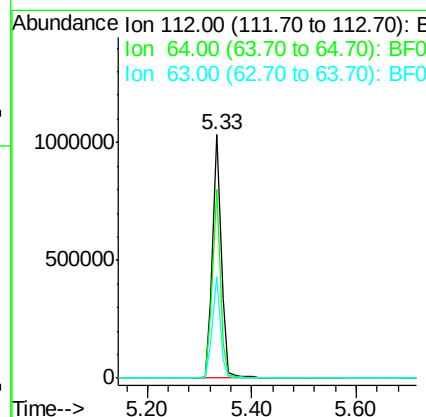
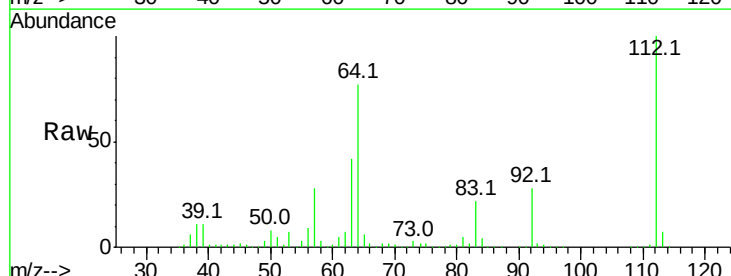
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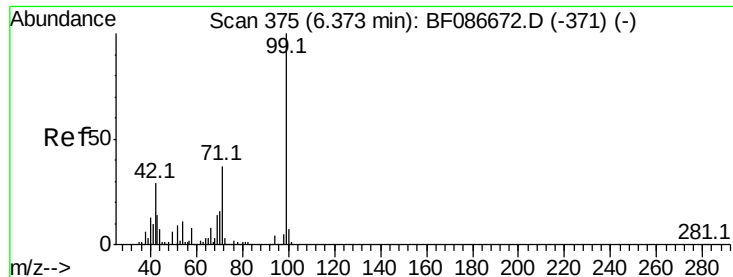


#5

2-Fluorophenol
Concen: 125.23 ng
RT: 5.33 min Scan# 284
Delta R.T. 0.01 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	77.3	52.1	78.1
63	41.7	25.7	38.5





#7

Phenol-d6

Concen: 121.50 ng

RT: 6.38 min Scan# 376

Delta R.T. 0.01 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Instrument :

BNA_F

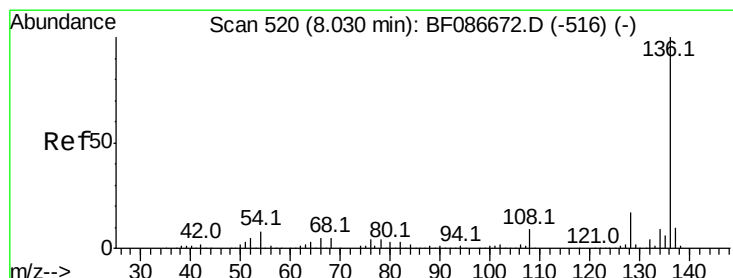
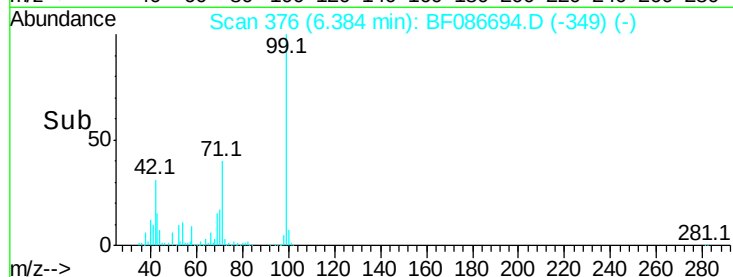
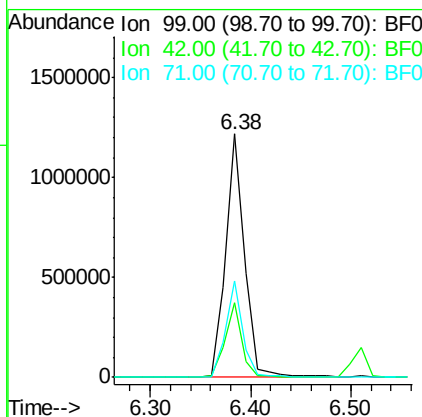
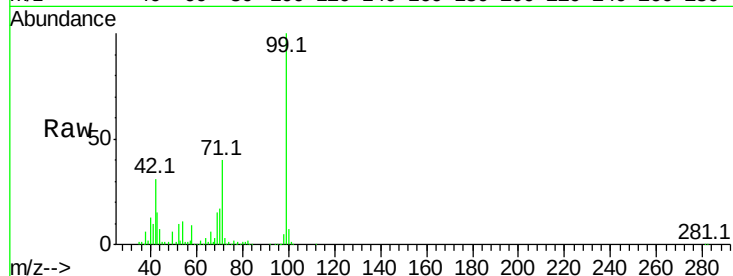
ClientSampleId :

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Tot Ion	99	Resp	1594055
Ion	Ratio	Lower	Upper
99	100		
42	30.8	13.6	20.4#
71	39.5	24.6	36.8#



#21

Naphthalene-d8

Concen: 40.00 ng

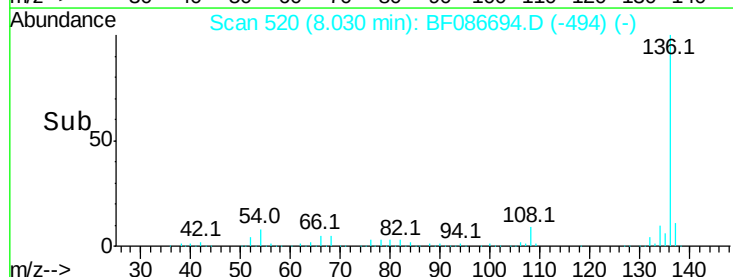
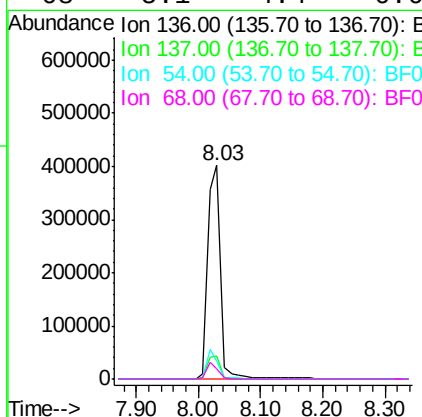
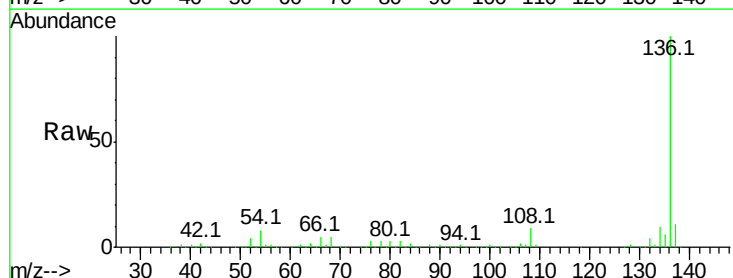
RT: 8.03 min Scan# 520

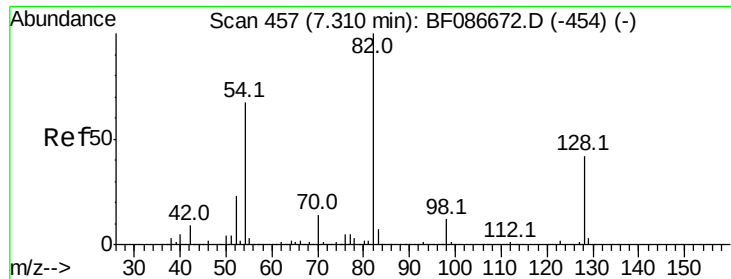
Delta R.T. -0.00 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Tgt Ion	136	Resp	573307
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	8.3	5.0	7.4#
68	5.1	4.4	6.6





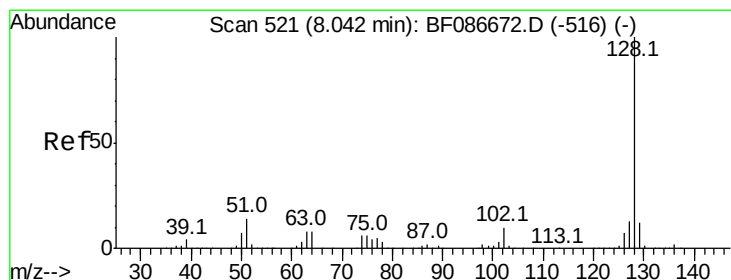
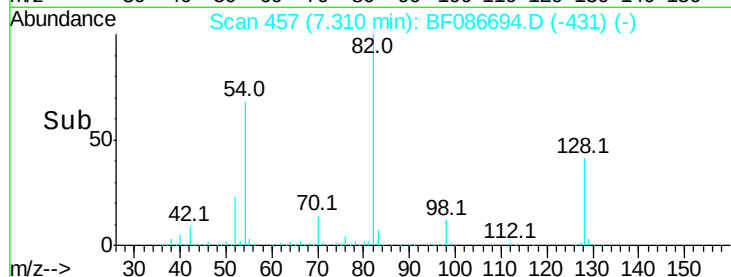
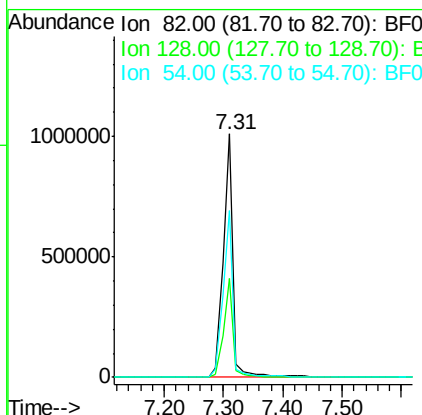
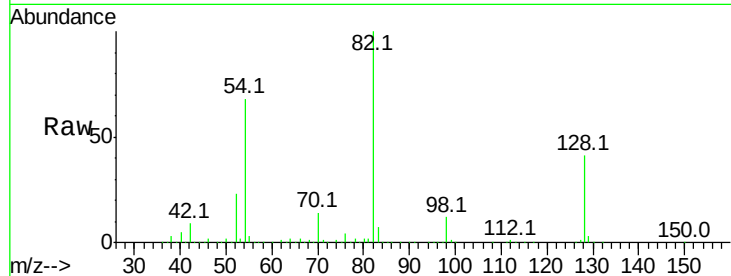
#23
Nitrobenzene-d5
Concen: 104.44 ng
RT: 7.31 min Scan# 457
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.9	40.6	61.0
54	68.3	38.1	57.1#

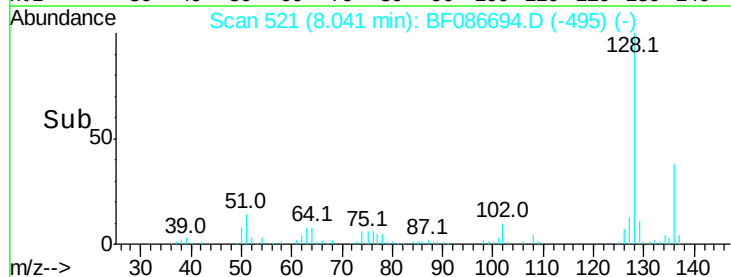
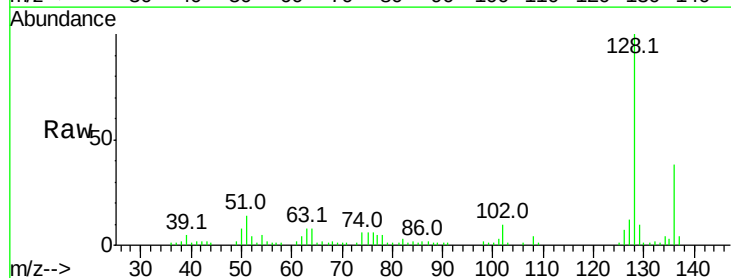
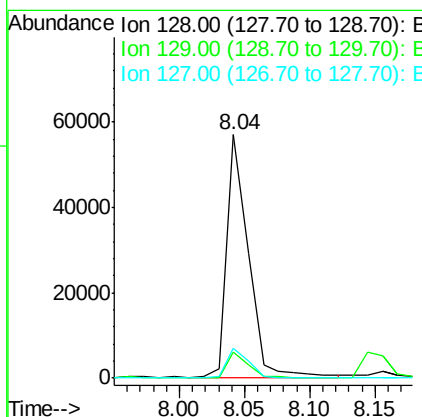
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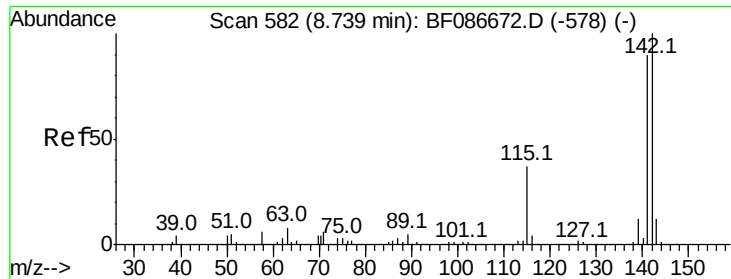
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#31
Naphthalene
Concen: 2.27 ng
RT: 8.04 min Scan# 521
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.6	13.0
127	12.5	10.8	16.2





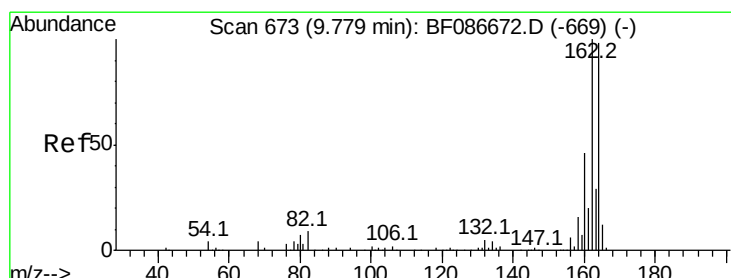
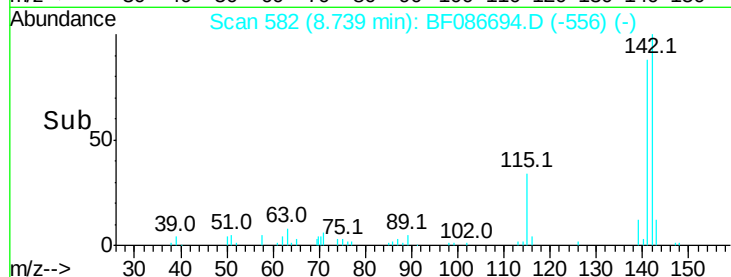
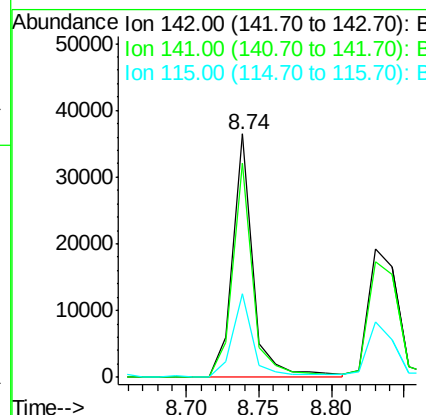
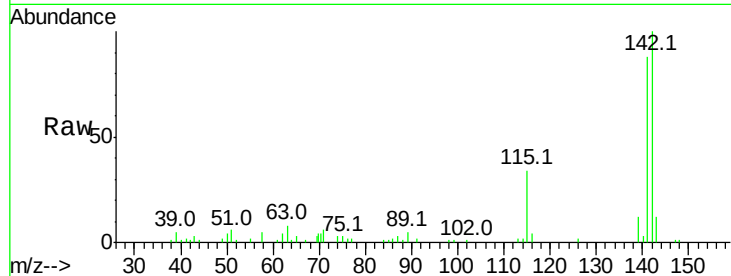
#37
2-Methylnaphthalene
Concen: 2.08 ng
RT: 8.74 min Scan# 582
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.0	106.6
115	34.1	26.6	39.8

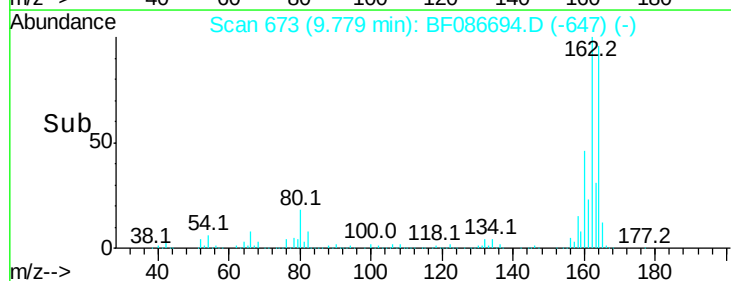
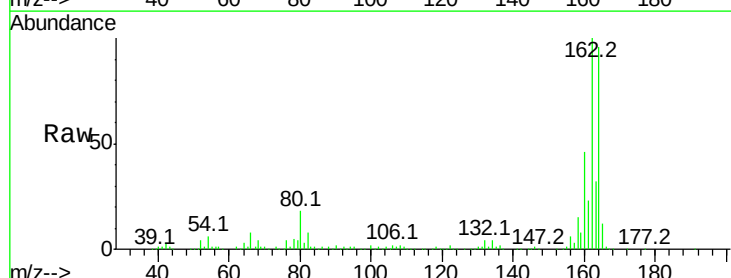
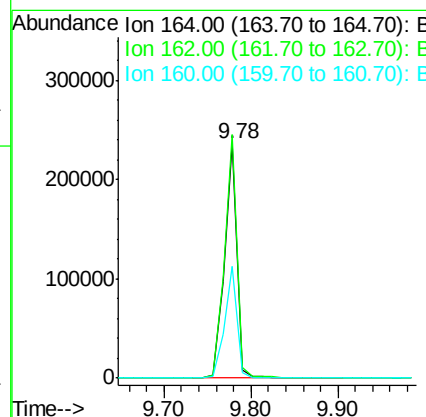
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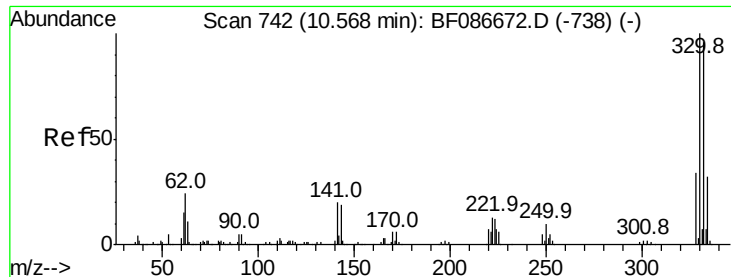
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#38
Acenaphthene-d10
Concen: 40.00 ng
RT: 9.78 min Scan# 673
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.8	124.2
160	47.8	36.9	55.3





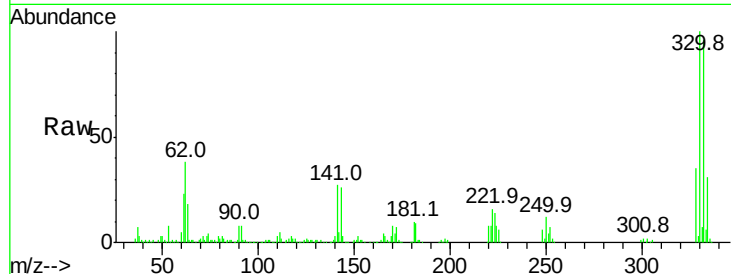
#41
 2,4,6-Tribromophenol
 Concen: 125.61 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: BF086694.D
 Acq: 4 May 2016 23:31

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-4-CS-1(0-8FTBGS)

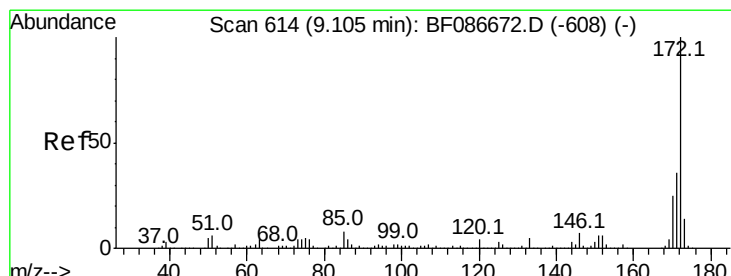
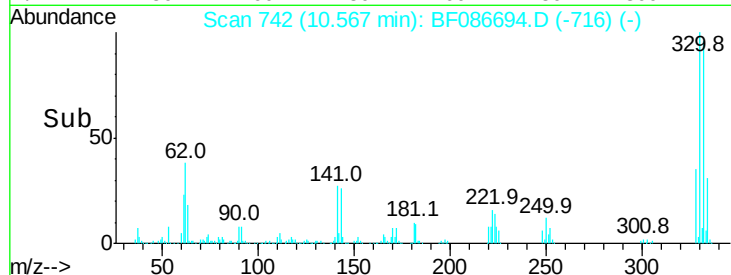
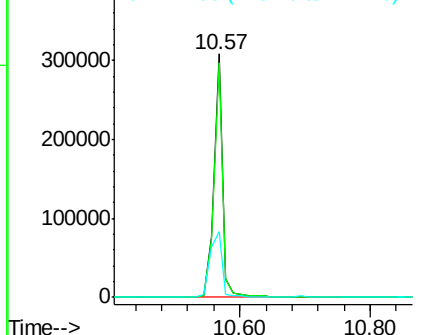
Tot Ion:	330	Resp:	296801
Ion Ratio	Lower	Upper	
330	100		
332	96.5	79.0	118.4
141	37.5	31.2	46.8

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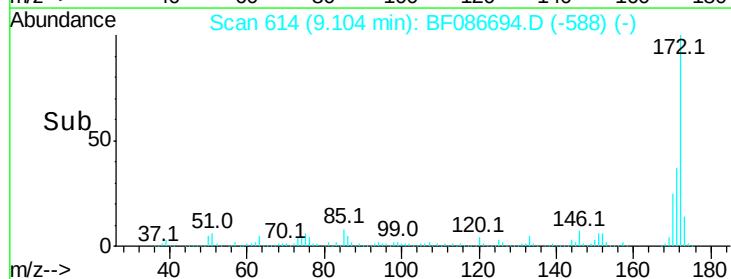
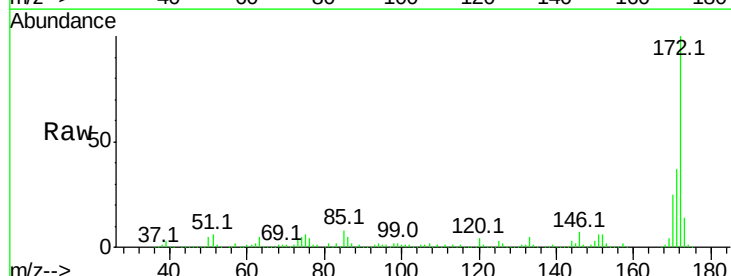
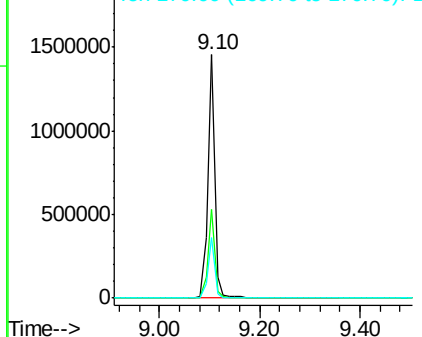
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

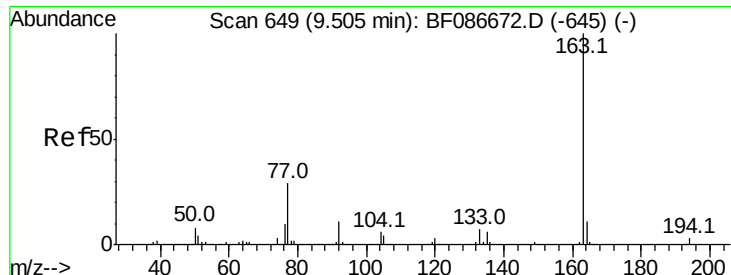


#44
 2-Fluorobiphenyl
 Concen: 95.11 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: BF086694.D
 Acq: 4 May 2016 23:31

Tgt Ion:	172	Resp:	1401486
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.0	43.6
170	24.7	19.8	29.8

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





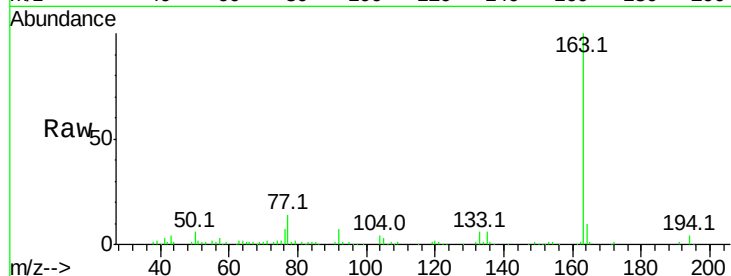
#49
Dimethylphthalate
Concen: 8.67 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

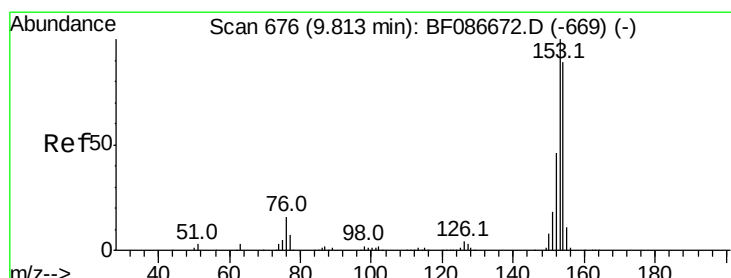
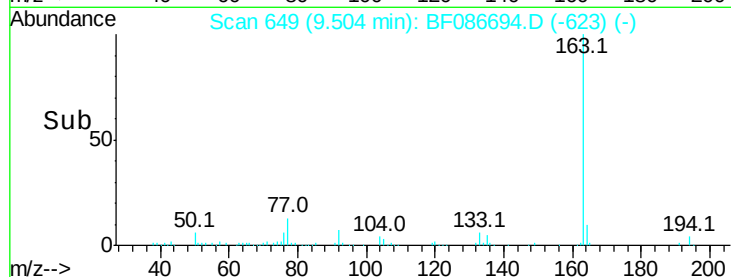
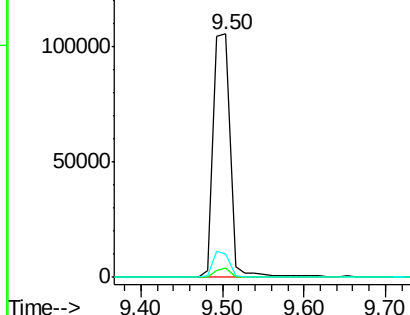
Tot Ion	Ratio	Resp	Lower	Upper
163	100	156152		
194	3.6		2.6	4.0
164	9.6		8.2	12.4

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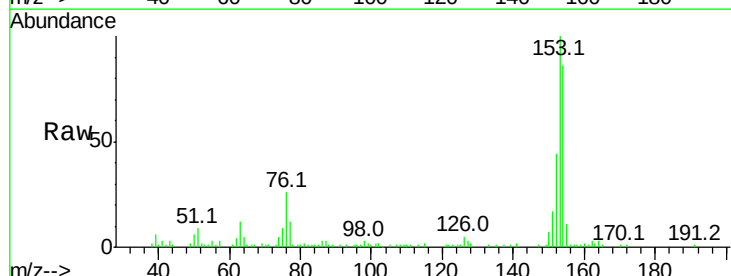


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

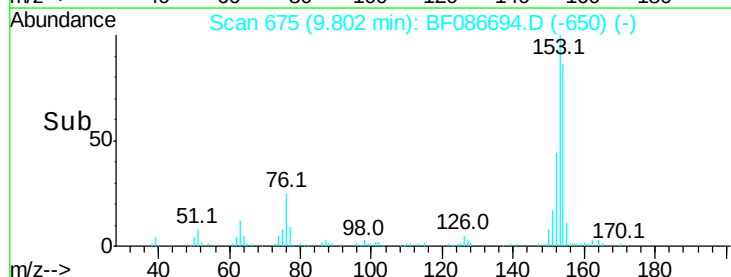
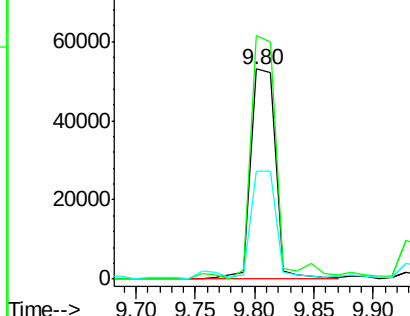


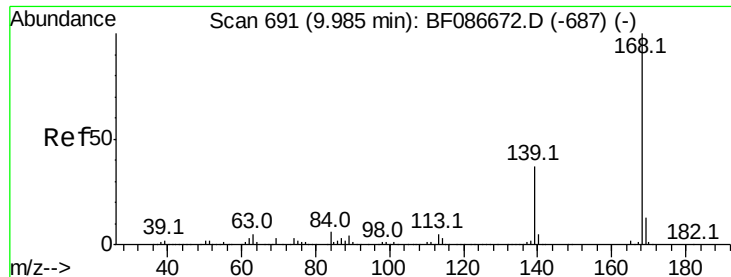
#51
Acenaphthene
Concen: 5.22 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	77890		
153	116.0		89.8	134.6
152	51.2		43.4	65.0



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





#54

Dibenzofuran

Concen: 4.31 ng

RT: 9.98 min Scan# 691

Delta R.T. -0.00 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Instrument :

BNA_F

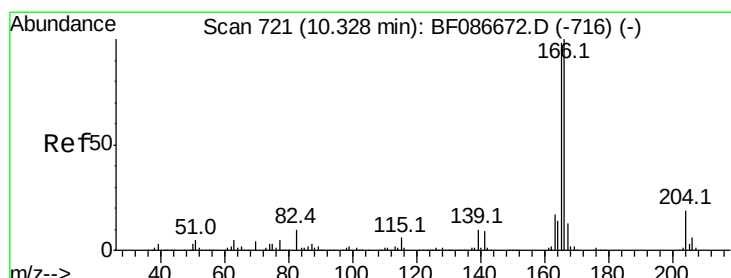
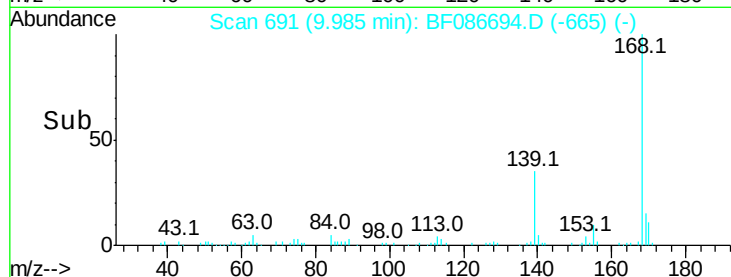
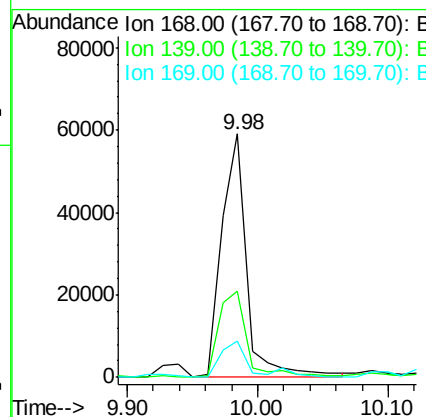
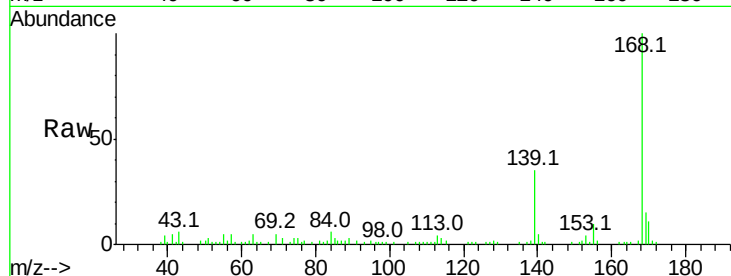
ClientSampleId :

26WARD-4-CS-1(0-8FTBGS)

Tot Ion:	168	Resp:	79697
Ion Ratio	Lower	Upper	
168	100		
139	35.3	31.4	47.0
169	14.9	10.7	16.1

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#57

Fluorene

Concen: 6.97 ng

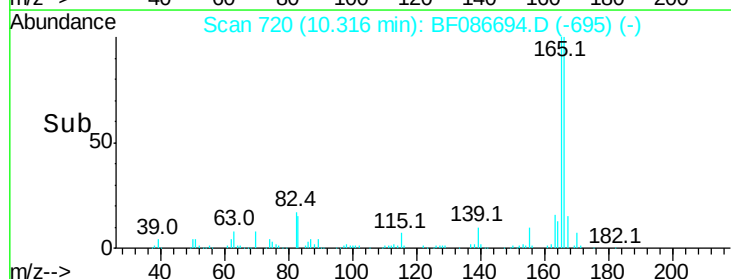
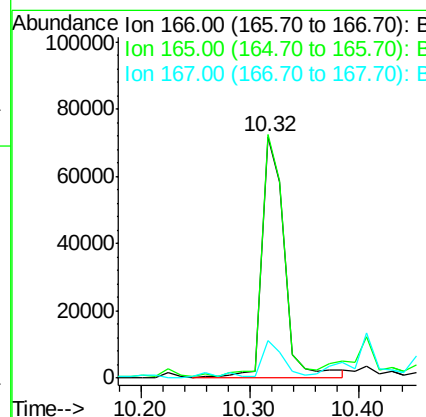
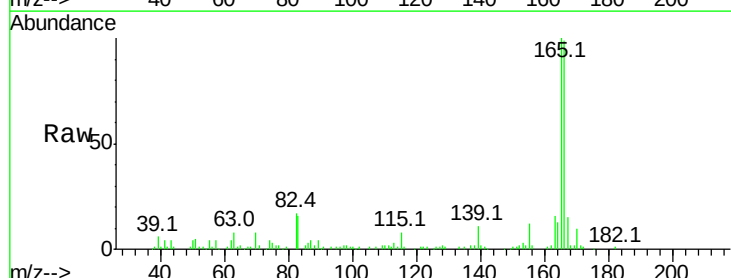
RT: 10.32 min Scan# 720

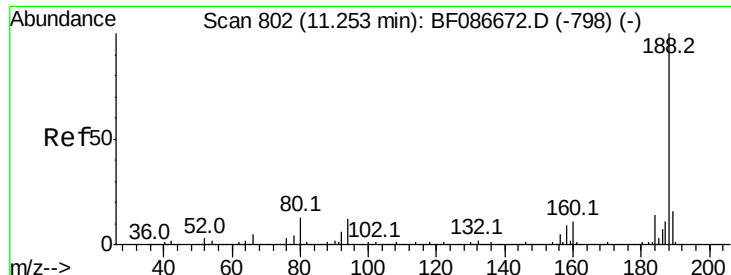
Delta R.T. -0.01 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Tgt Ion:	166	Resp:	104434
Ion Ratio	Lower	Upper	
166	100		
165	101.0	79.0	118.6
167	15.4	10.6	15.8





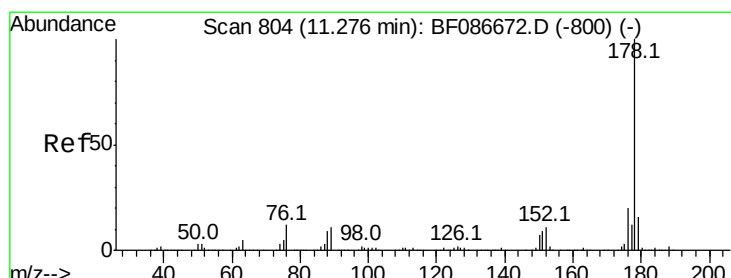
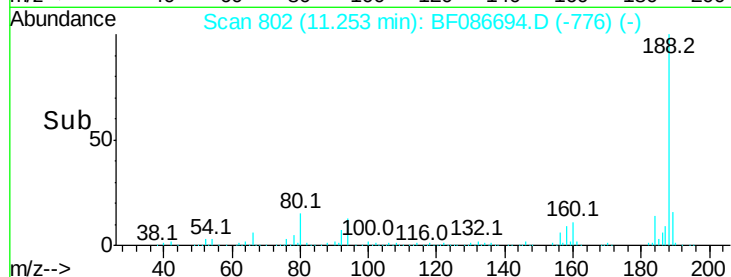
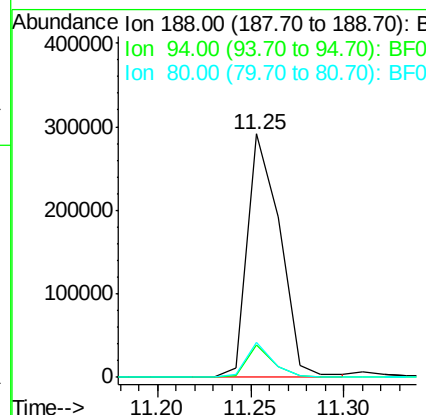
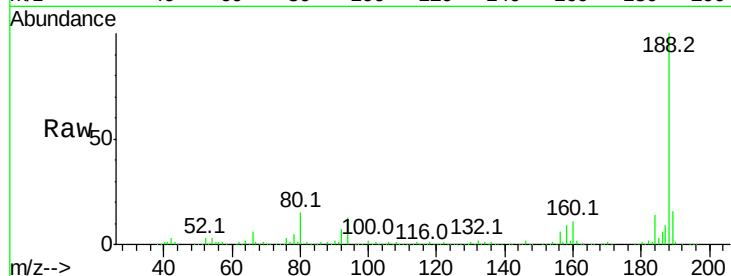
#63
Phenanthrene-d10
Concen: 40.00 ng
RT: 11.25 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	13.4	6.8	10.2#
80	14.6	7.1	10.7#

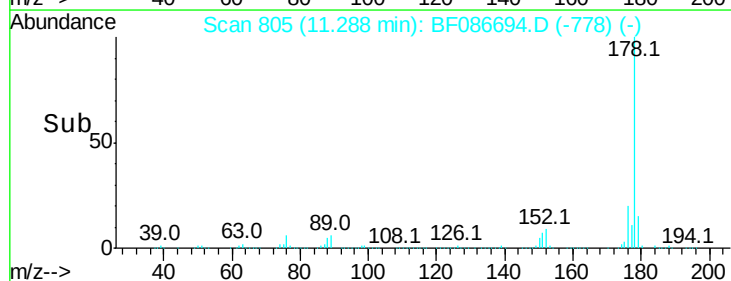
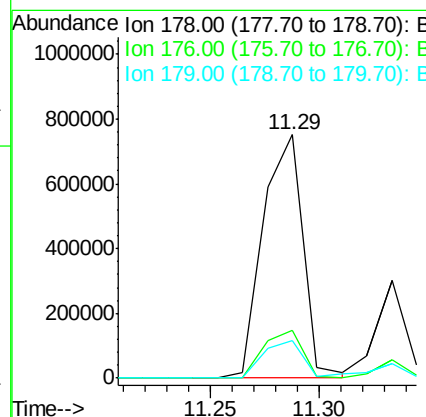
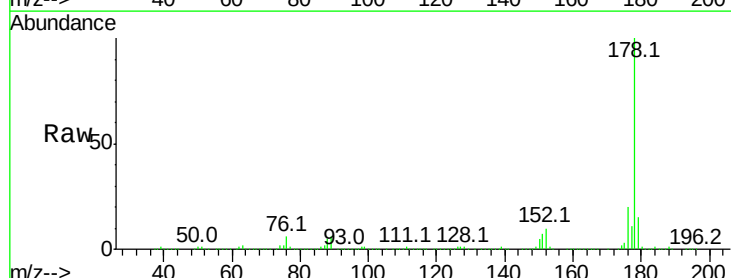
Manual Integrations
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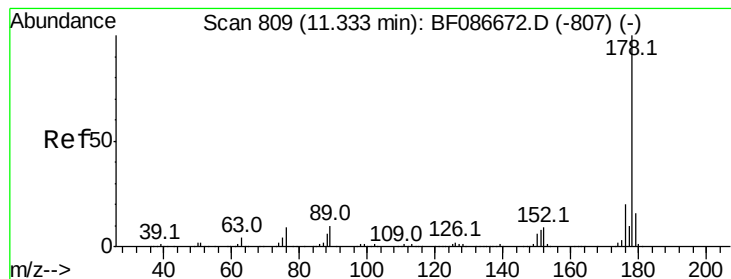
sohil
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#70
Phenanthrene
Concen: 50.93 ng
RT: 11.29 min Scan# 805
Delta R.T. 0.01 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.3	12.6	18.8





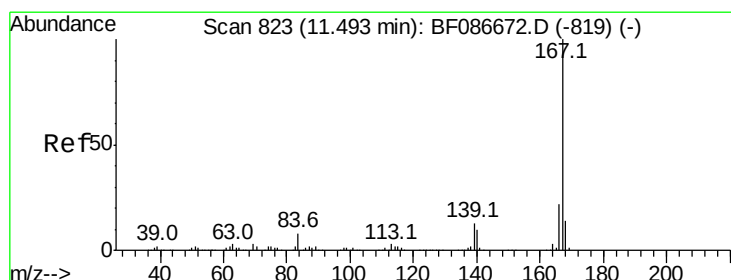
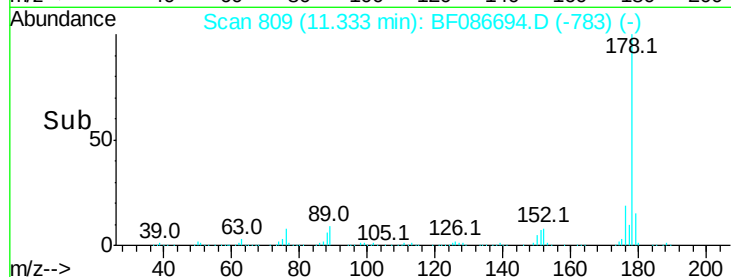
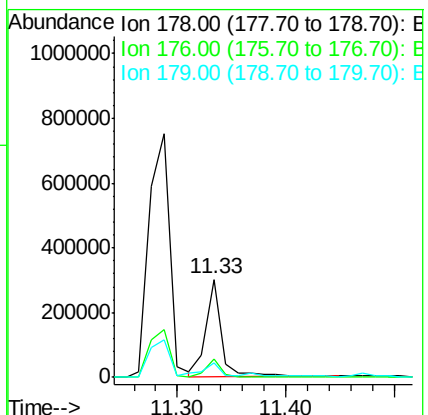
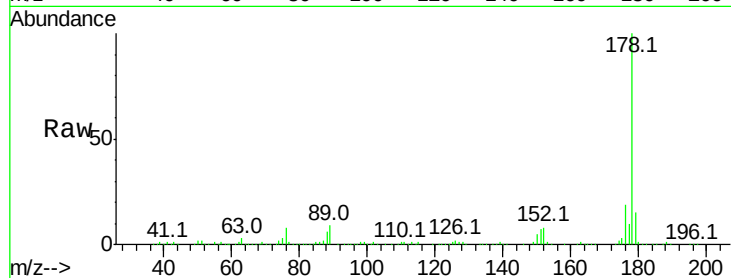
#71
 Anthracene
 Concen: 15.65 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.00 min
 Lab File: BF086694.D
 Acq: 4 May 2016 23:31

Instrument :
 BNA_F
 ClientSampleId :
 26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.6	23.4
179	15.3	12.7	19.1

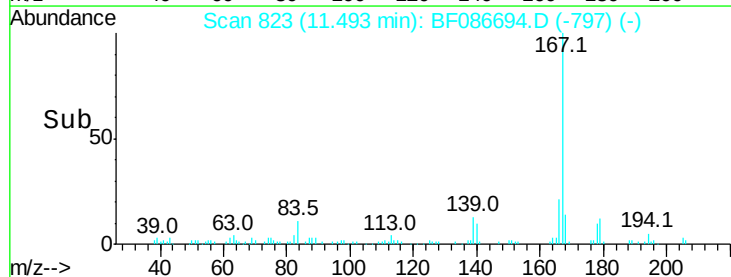
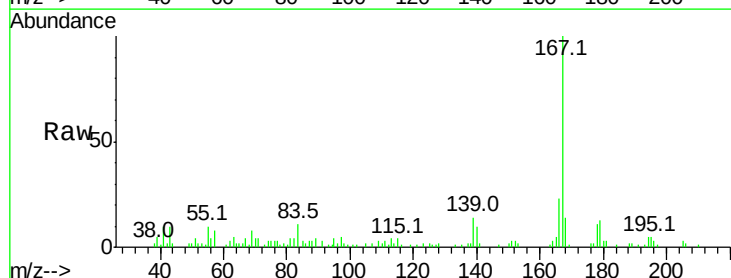
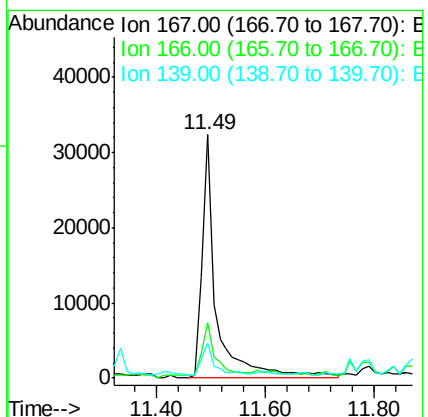
Manual Integrations
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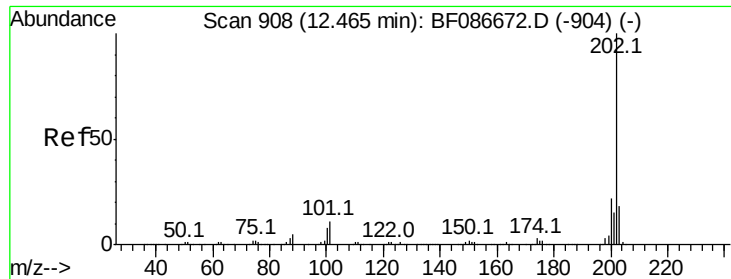
sohil
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#72
 Carbazole
 Concen: 3.38 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.00 min
 Lab File: BF086694.D
 Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.7	17.7	26.5
139	14.3	10.8	16.2





#74

Fluoranthene

Concen: 49.58 ng

RT: 12.46 min Scan# 908

Delta R.T. -0.00 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Instrument :

BNA_F

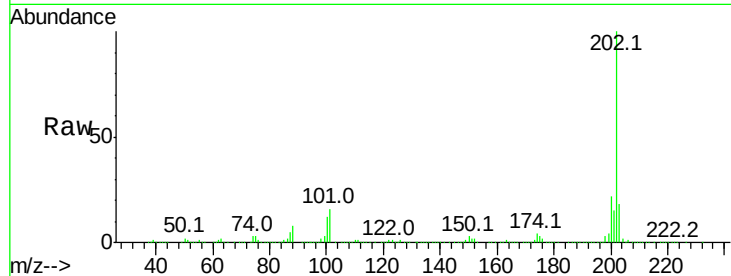
ClientSampleId :

26WARD-4-CS-1(0-8FTBGS)

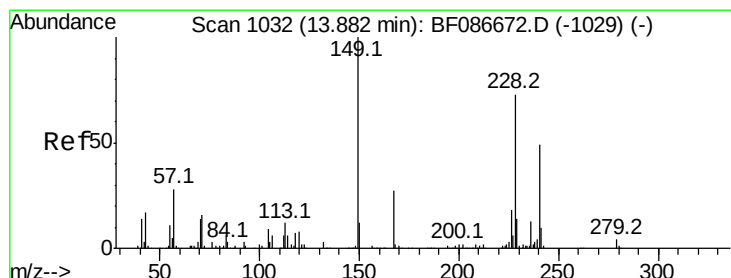
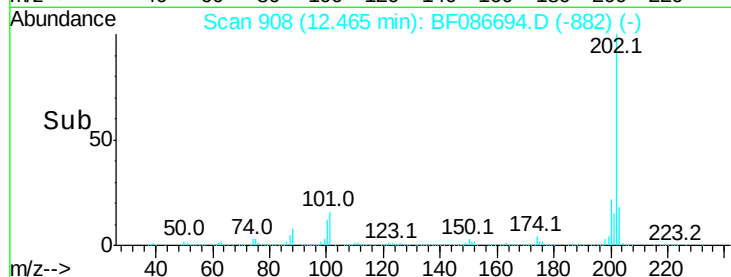
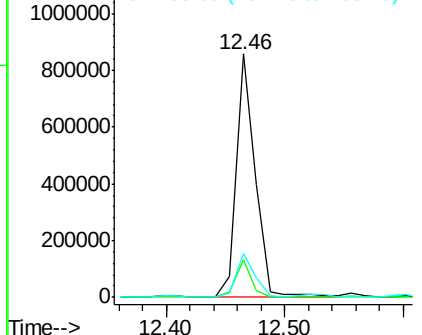
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	15.6	0.0	35.4
203	18.1	0.0	38.1

Manual Integrations
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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



#75

Chrysene-d12

Concen: 40.00 ng

RT: 13.89 min Scan# 1033

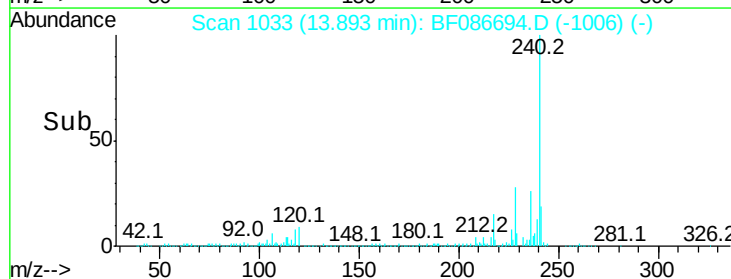
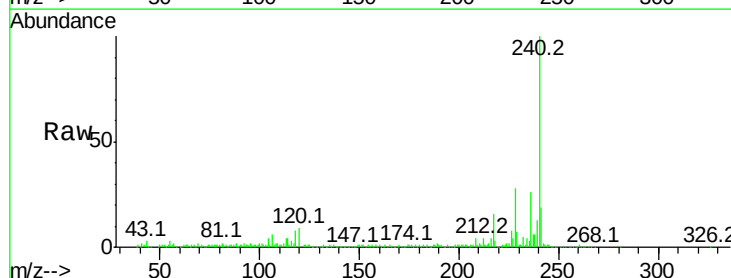
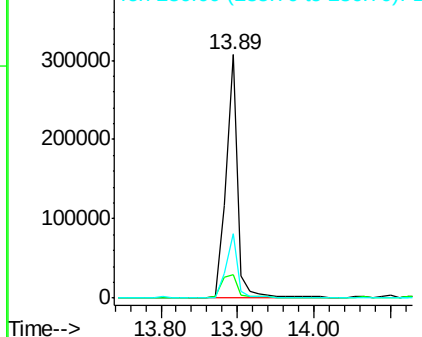
Delta R.T. 0.01 min

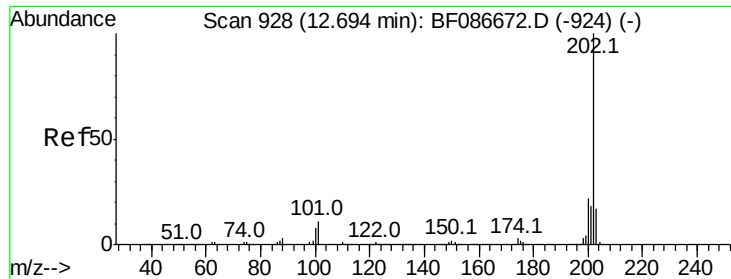
Lab File: BF086694.D

Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.5	11.2	16.8#
236	26.3	21.2	31.8

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





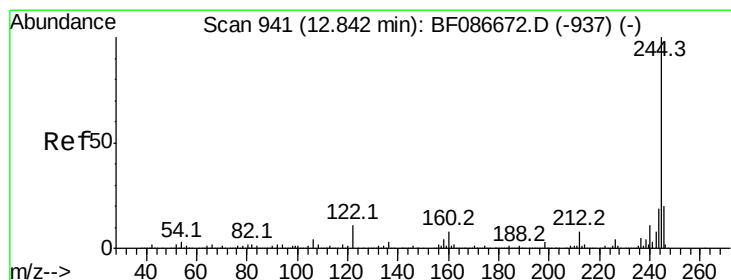
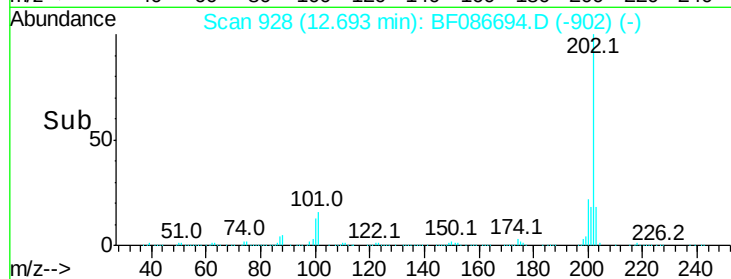
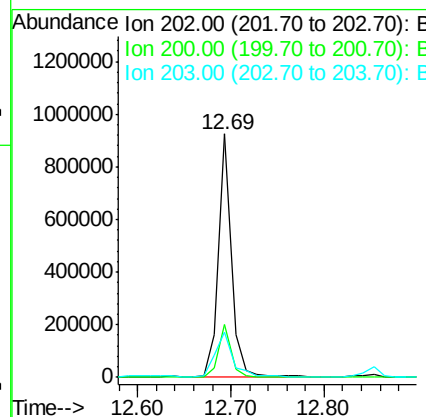
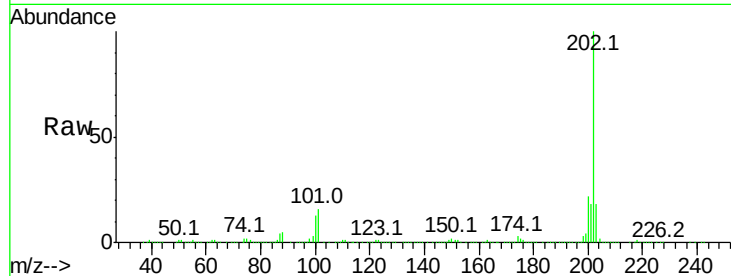
#77
Pvrene
Concen: 34.11 ng
RT: 12.69 min Scan# 928
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.7	26.5
203	18.4	14.2	21.4

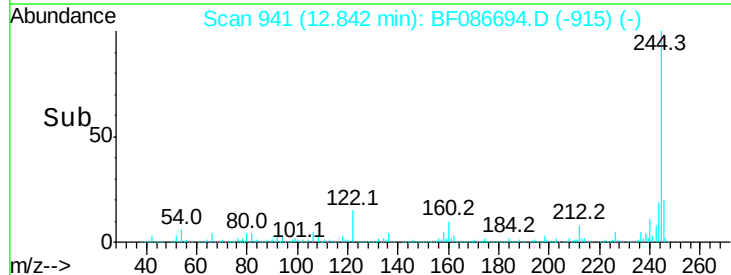
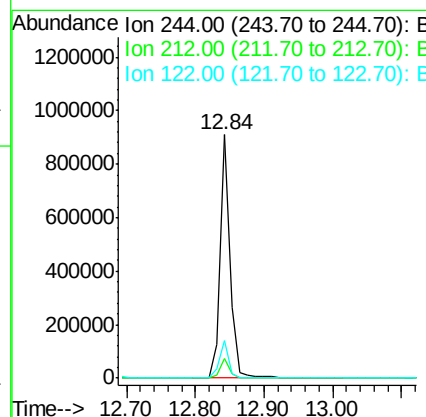
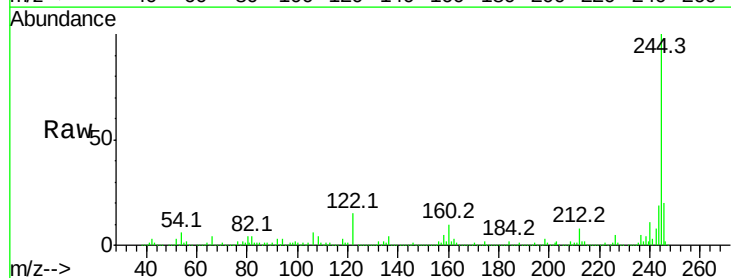
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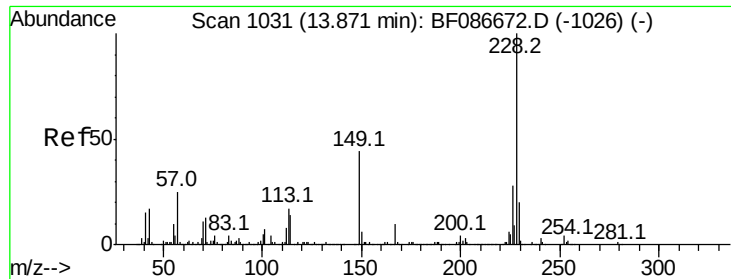
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#78
Terphenyl-d14
Concen: 57.89 ng
RT: 12.84 min Scan# 941
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.2	9.2
122	15.4	12.0	18.0





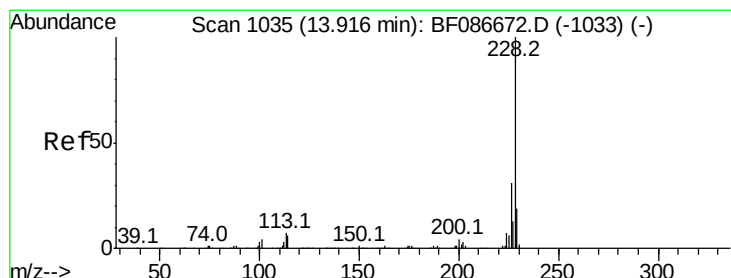
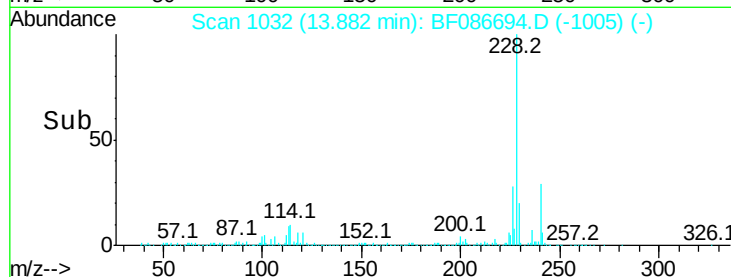
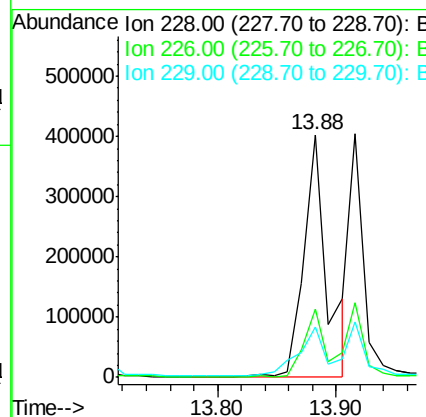
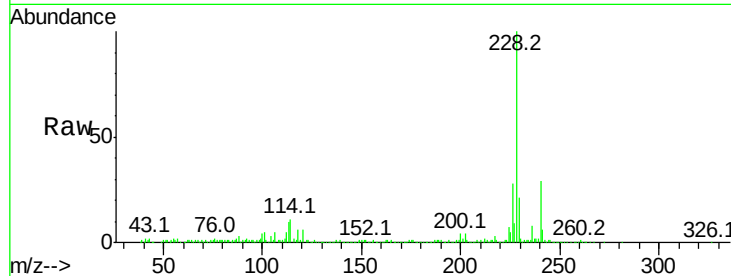
#80
Benzo(a)anthracene
Concen: 28.98 ng
RT: 13.88 min Scan# 1032
Delta R.T. 0.01 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.7	16.6	25.0

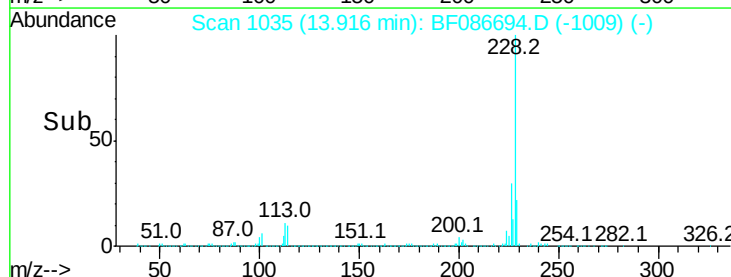
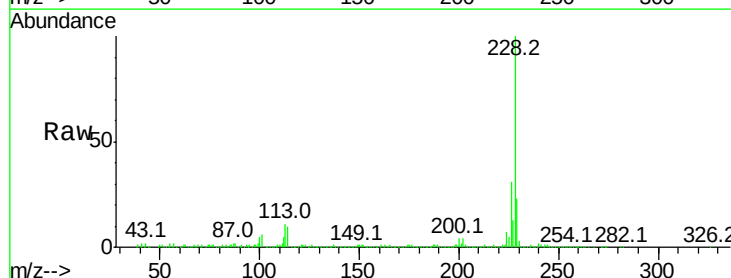
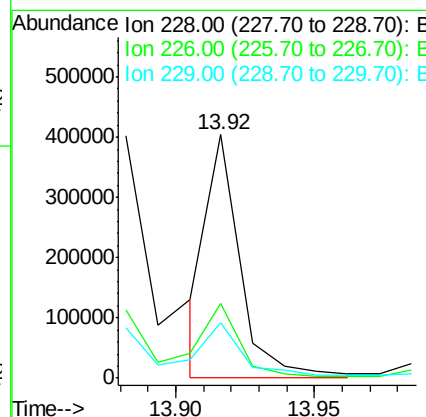
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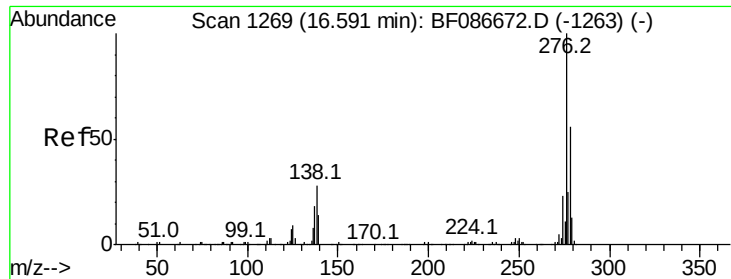
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#82
Chrysene
Concen: 17.25 ng m
RT: 13.92 min Scan# 1035
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.4	36.6
229	22.7	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.30 ng

RT: 16.60 min Scan# 1270

Delta R.T. 0.01 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Instrument :

BNA_F

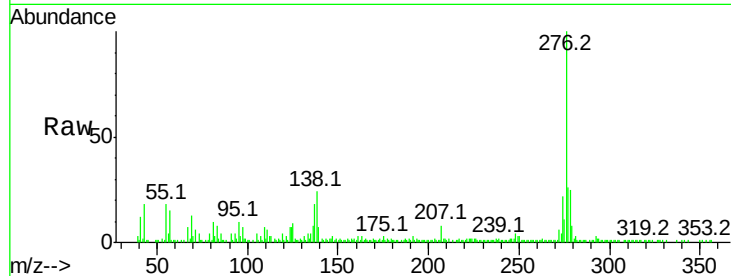
ClientSampleId :

26WARD-4-CS-1(0-8FTBGS)

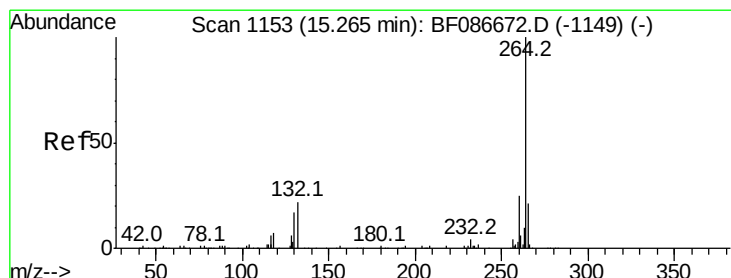
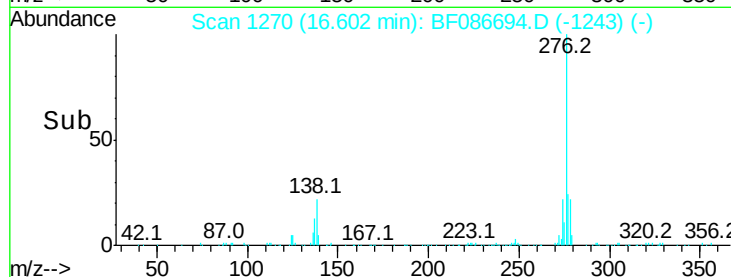
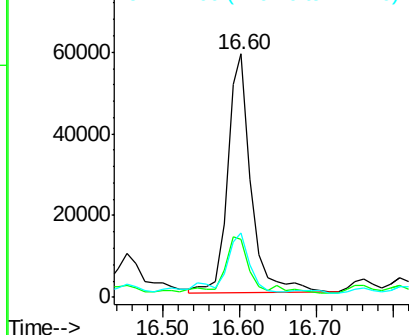
Tot Ion	Ratio	Resp	Lower	Upper
276	100	124592		
138	23.2	25.6	38.4#	
277	27.1	20.5	30.7	

Manual Integrations
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Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 40.00 ng

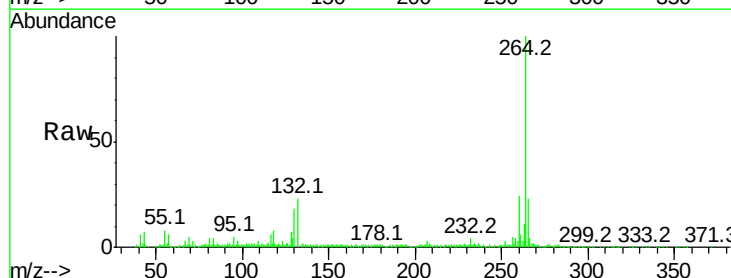
RT: 15.28 min Scan# 1154

Delta R.T. 0.01 min

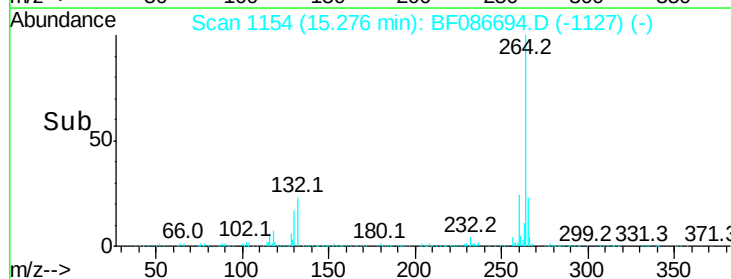
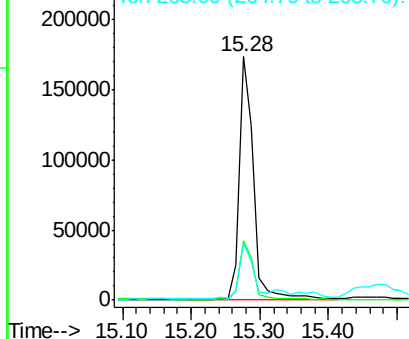
Lab File: BF086694.D

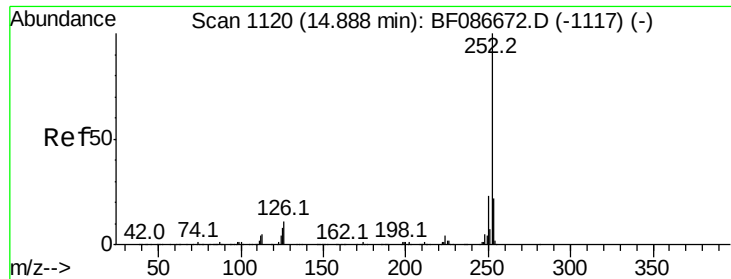
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	249253		
260	24.4	19.5	29.3	
265	23.3	17.3	25.9	



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





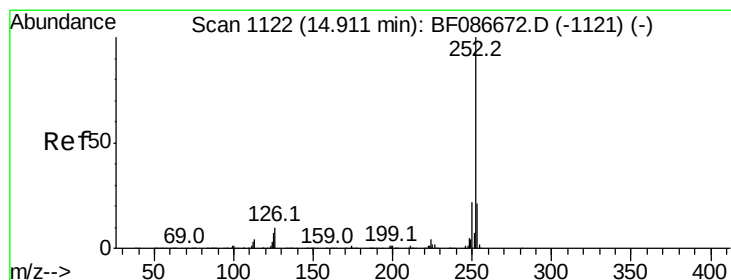
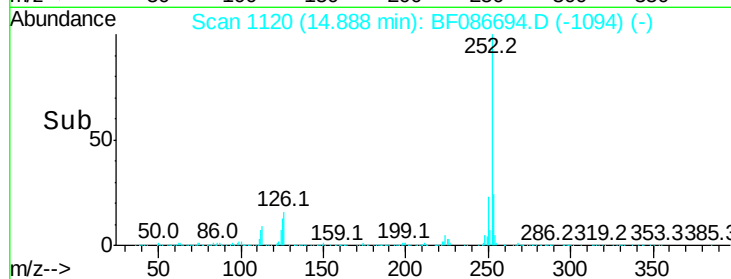
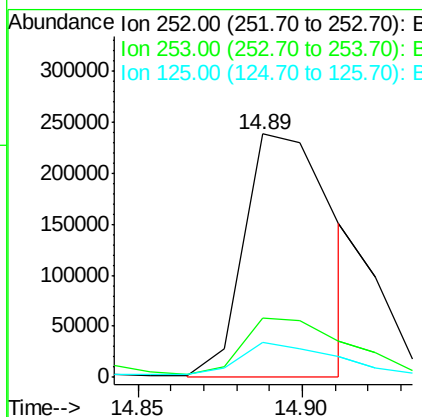
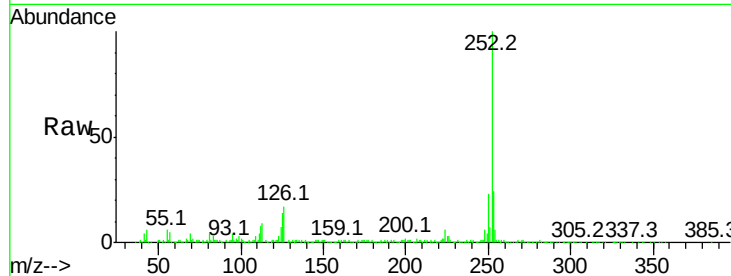
#87
Benzo(b)fluoranthene
Concen: 29.68 ng m
RT: 14.89 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.8	26.6
125	14.1	11.4	17.0

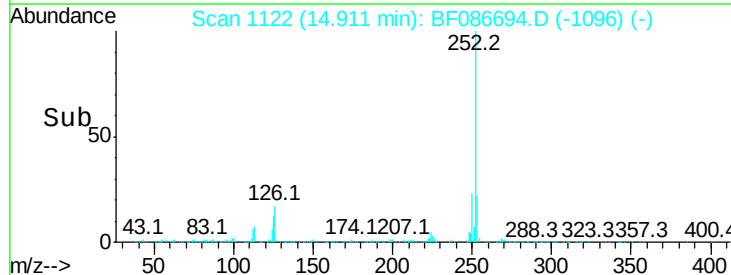
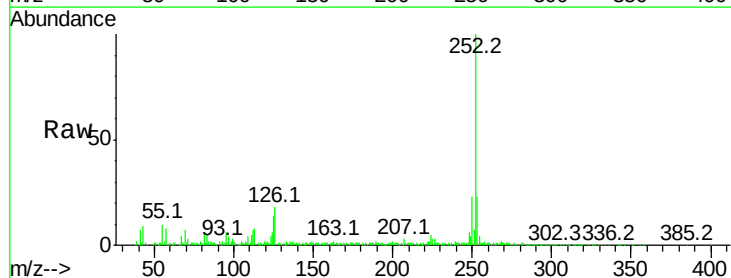
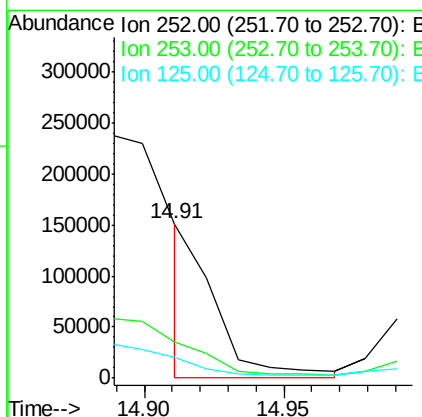
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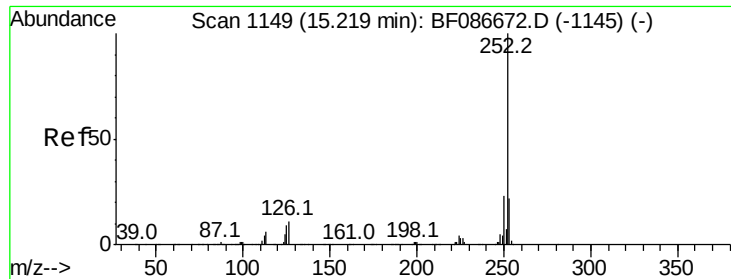
sohil
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#88
Benzo(k)fluoranthene
Concen: 6.78 ng m
RT: 14.91 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	13.6	9.1	13.7





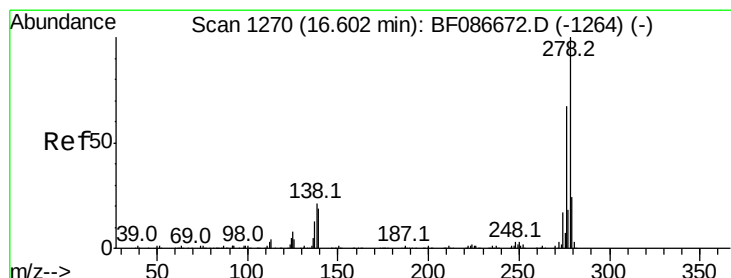
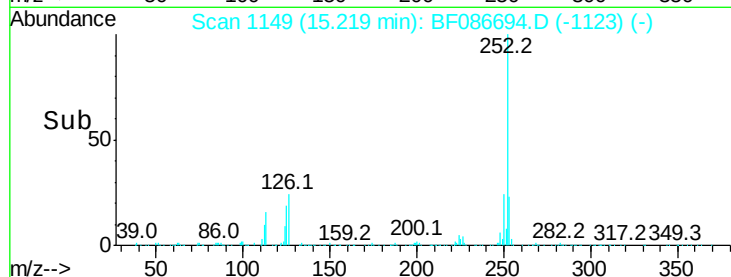
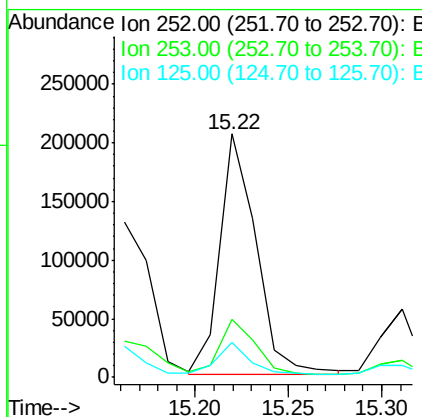
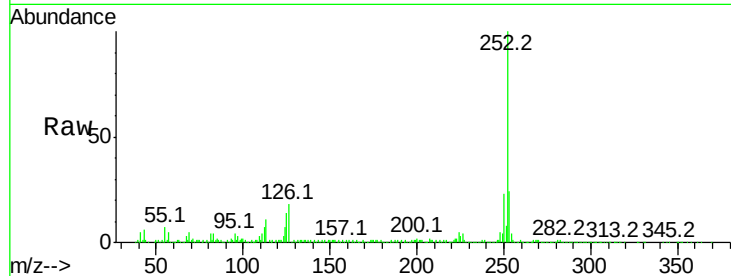
#89
Benzo(a)pyrene
Concen: 20.37 ng
RT: 15.22 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Instrument :
BNA_F
ClientSampleId :
26WARD-4-CS-1(0-8FTBGS)

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.1	17.2	25.8
125	14.4	9.0	13.6

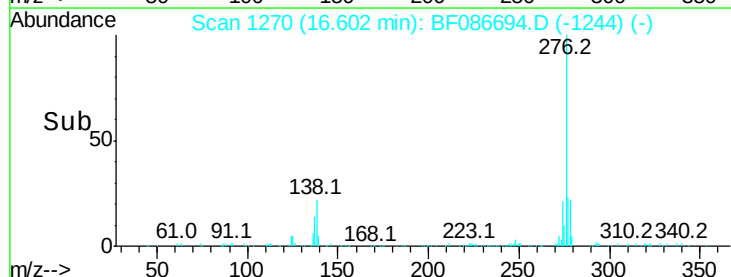
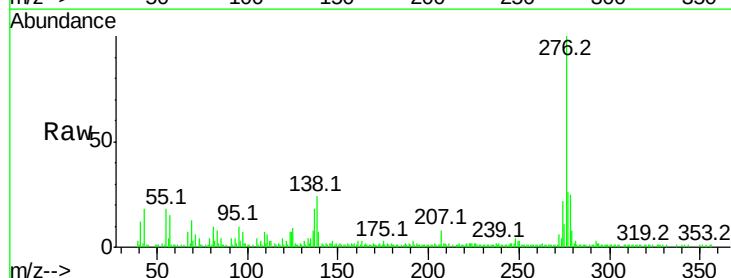
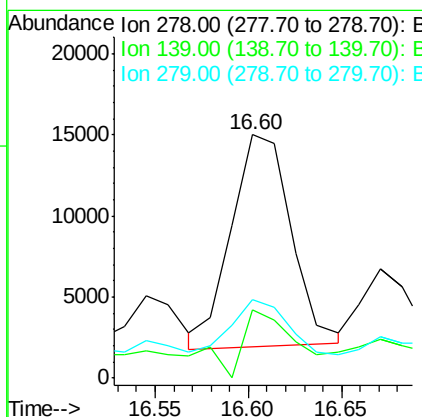
Manual Integrations
APPROVED

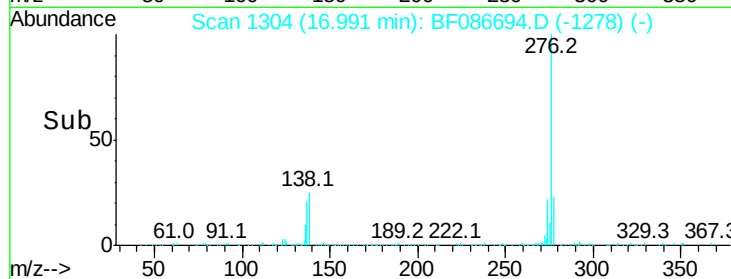
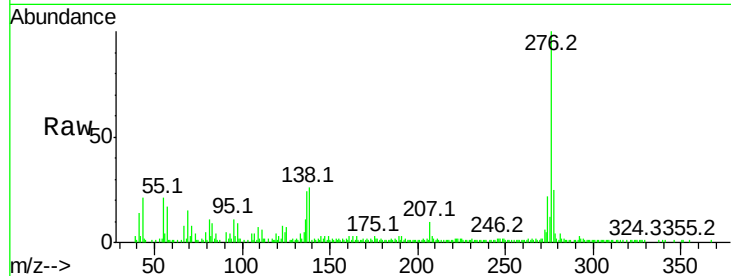
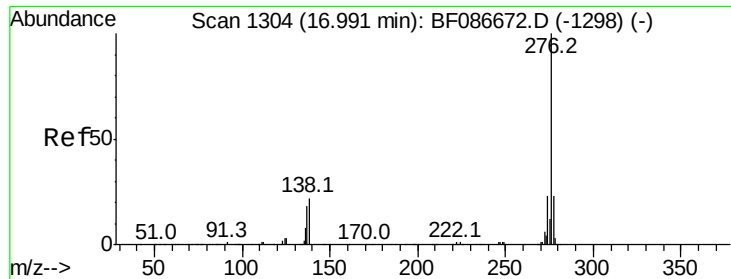
sohil
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#90
Dibenzo(a,h)anthracene
Concen: 2.21 ng
RT: 16.60 min Scan# 1270
Delta R.T. -0.00 min
Lab File: BF086694.D
Acq: 4 May 2016 23:31

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	28.3	16.6	24.8
279	32.0	19.6	29.4





#91

Benzo(a,h,i)perylene

Concen: 8.14 ng

RT: 16.99 min Scan# 1304

Delta R.T. -0.00 min

Lab File: BF086694.D

Acq: 4 May 2016 23:31

Instrument :

BNA_F

ClientSampleId :

26WARD-4-CS-1(0-8FTBGS)

Tot Ion:	276	Resp:	113214
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.6	29.4
138	26.4	23.6	35.4

Manual Integrations
APPROVED

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