

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
 Data File : BF086281.D
 Acq On : 18 Apr 2016 14:51
 Operator : UM/SJ
 Sample : H2099-05DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PE-A-1DL

Manual Integrations
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Sohil
 4/19/2016 6:22:04 PM

Quant Time: Apr 19 14:00:39 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	315354	20.00	ng	-0.01
21) Naphthalene-d8	8.18	136	984927	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	447297	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	784693	20.00	ng	0.00
75) Chrysene-d12	14.04	240	535239	20.00	ng	-0.01
86) Perylene-d12	15.48	264	564522	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	158776	8.25	ng	-0.01
7) Phenol-d6	6.50	99	226483	9.41	ng	-0.02
23) Nitrobenzene-d5	7.45	82	160786	9.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	29166	8.12	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	196872	8.12	ng	-0.01
78) Terphenyl-d14	12.99	244	133529	6.27	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.20	128	294011m	6.68	ng	
37) 2-Methylnaphthalene	8.89	142	601646	21.16	ng	# 97
45) 1,1'-Biphenyl	9.36	154	119962	3.73	ng	96
51) Acenaphthene	9.96	154	202953	8.12	ng	95
57) Fluorene	10.48	166	260190	8.54	ng	# 95
70) Phenanthrene	11.44	178	1825871	48.72	ng	99
71) Anthracene	11.49	178	392612	7.80	ng	97
72) Carbazole	11.64	167	250489	7.03	ng	# 93
74) Fluoranthene	12.63	202	1434058	44.38	ng	99
77) Pyrene	12.85	202	1343660	32.72	ng	99
80) Benzo(a)anthracene	14.03	228	635740	21.64	ng	99
82) Chrysene	14.07	228	461742	14.74	ng	96
85) Indeno(1,2,3-cd)pyrene	16.88	276	259507	10.08	ng	96
87) Benzo(b)fluoranthene	15.07	252	628295m	18.04	ng	
88) Benzo(k)fluoranthene	15.09	252	172039m	5.42	ng	
89) Benzo(a)pyrene	15.41	252	439257	14.56	ng	# 96
90) Dibenzo(a,h)anthracene	16.89	278	66198m	2.48	ng	
91) Benzo(g,h,i)perylene	17.30	276	236651	8.35	ng	# 92

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

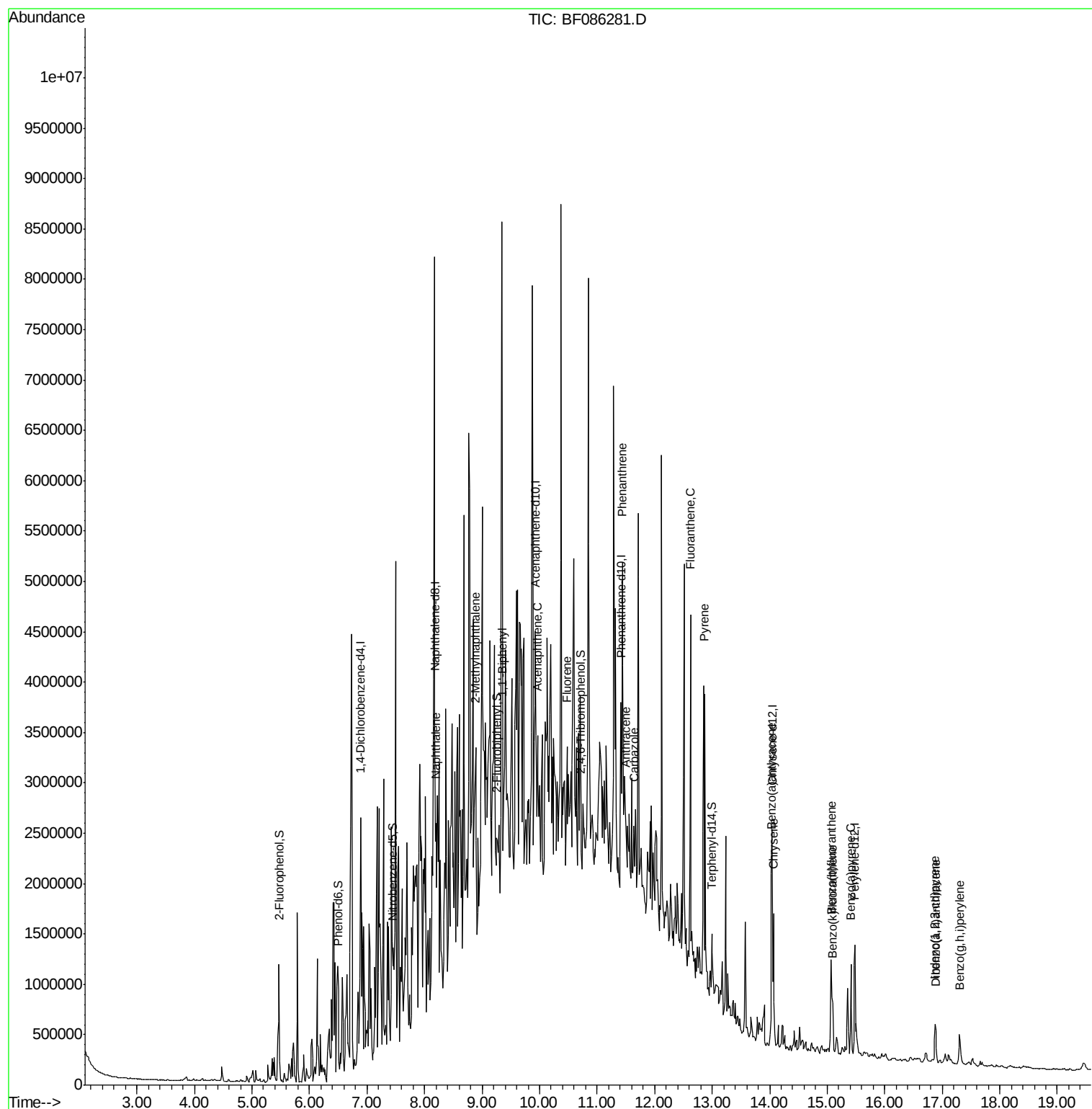
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
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ALS Vial : 4 Sample Multiplier: 1

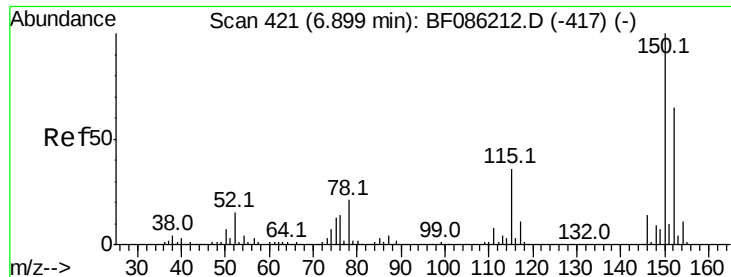
Instrument :
BNA_F
ClientSampled :
PE-A-1DL

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#1

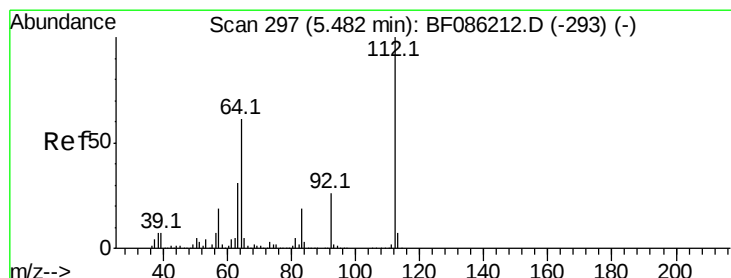
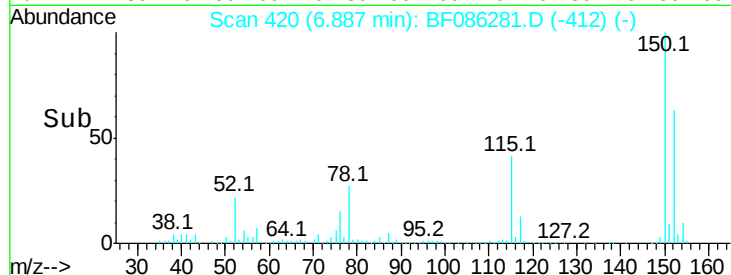
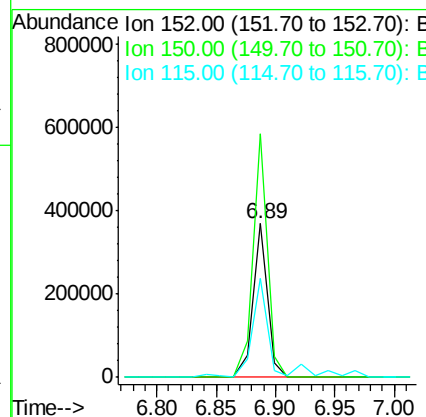
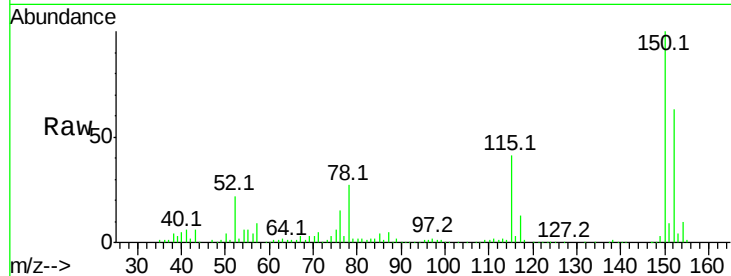
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.01 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Instrument :
BNA_F
ClientSampleId :
PE-A-1DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	315354		
150	158.2	124.1	186.1	
115	64.7	43.9	65.9	

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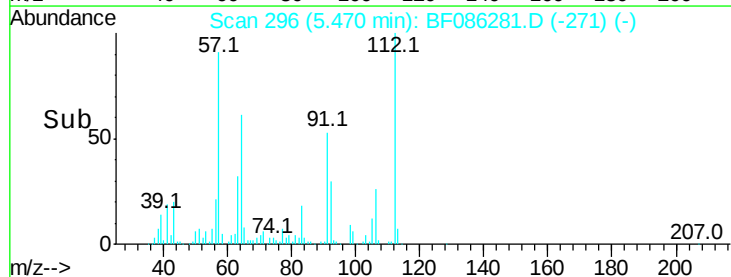
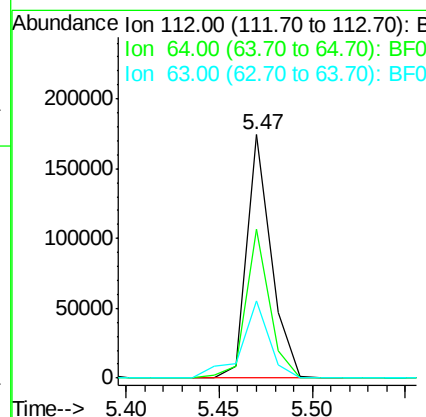
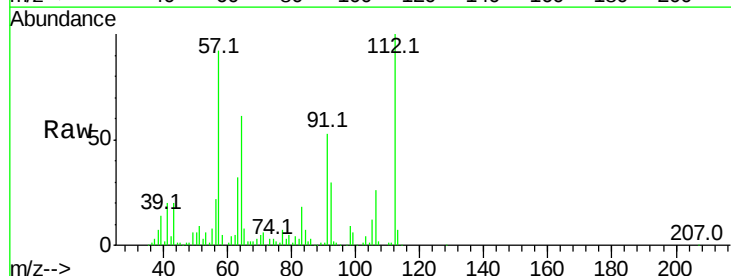
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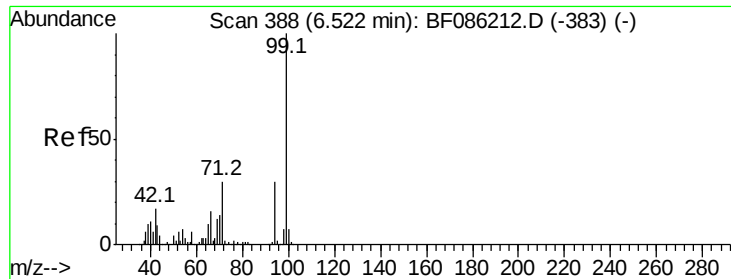


#5

2-Fluorophenol
Concen: 8.25 ng
RT: 5.47 min Scan# 296
Delta R.T. -0.01 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	158776		
64	61.2	48.1	72.1	
63	32.0	25.5	38.3	





#7

Phenol-d6

Concen: 9.41 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.02 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

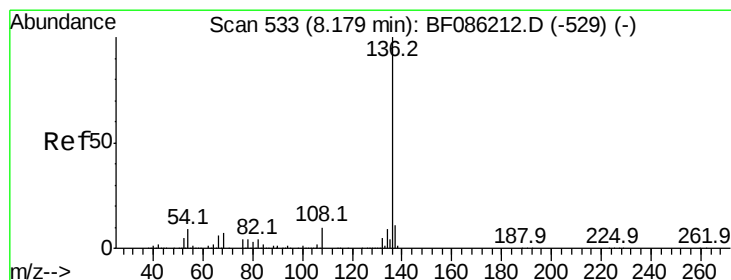
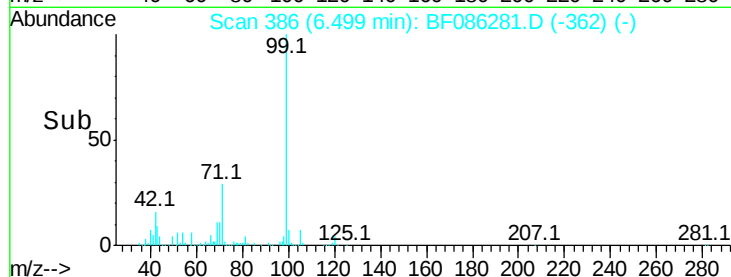
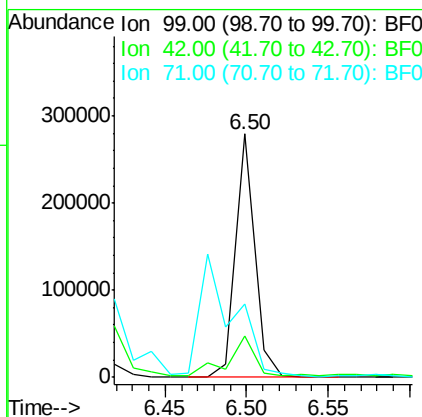
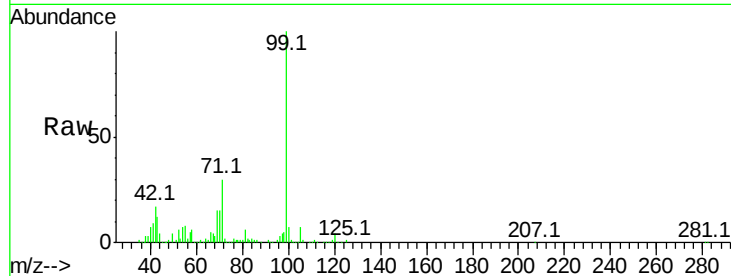
ClientSampleId :

PE-A-1DL

Tot Ion:	99	Resp:	226483
Ion Ratio	Lower	Upper	
99	100		
42	17.0	15.4	23.2
71	29.9	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

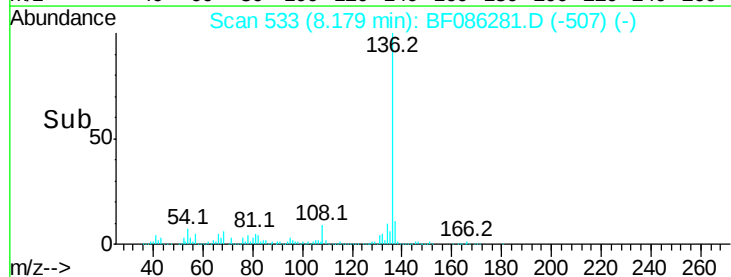
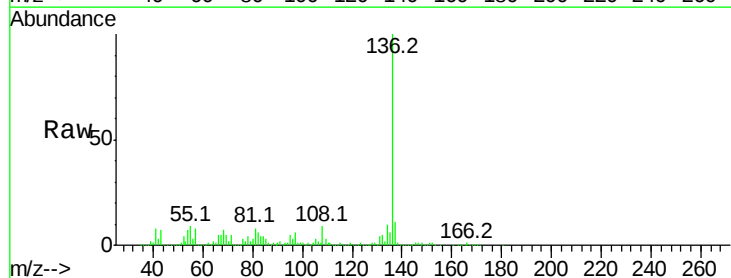
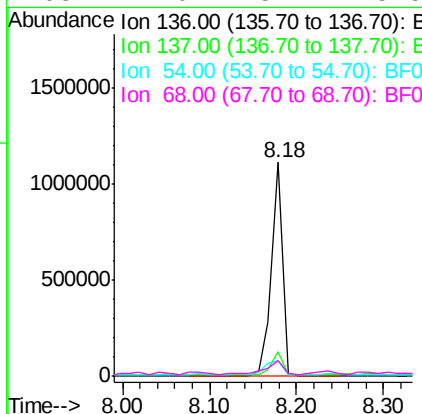
RT: 8.18 min Scan# 533

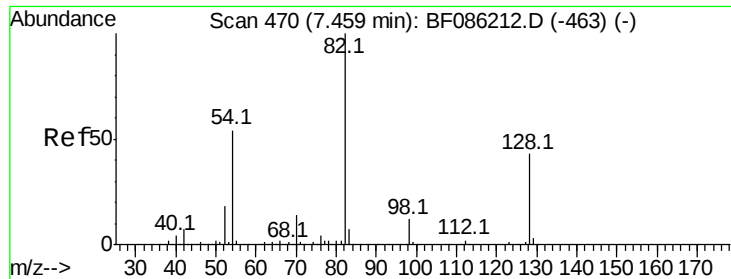
Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Tgt Ion:	136	Resp:	984927
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.1	13.7
54	7.5	7.3	10.9
68	7.0	5.7	8.5





#23

Nitrobenzene-d5

Concen: 9.42 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

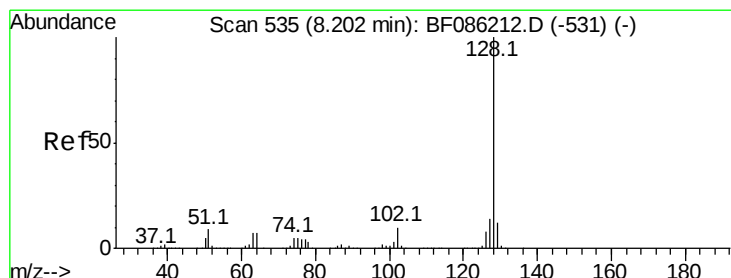
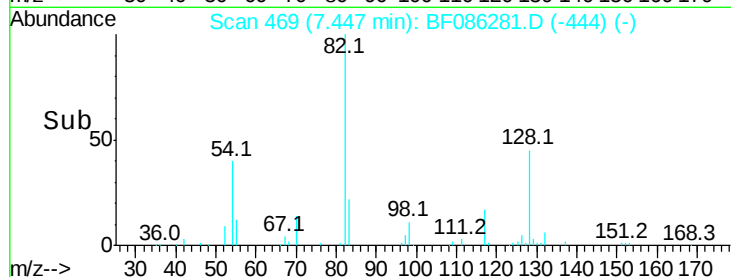
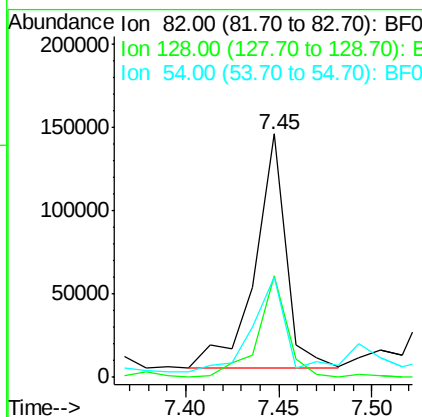
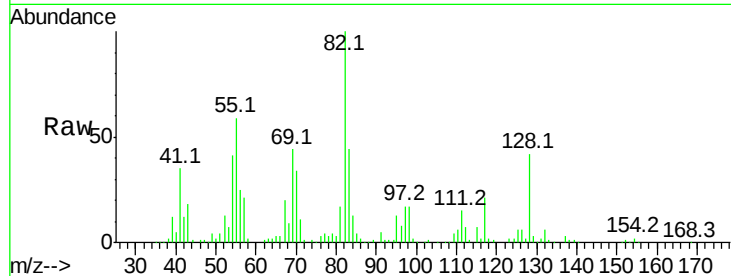
ClientSampled :

PE-A-1DL

Tot Ion	82	Resp	160786
Ion Ratio	Lower	Upper	
82	100		
128	41.8	35.4	53.2
54	41.2	43.4	65.0#

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#31

Naphthalene

Concen: 6.68 ng m

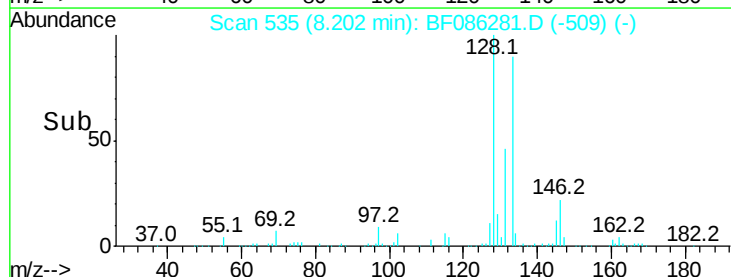
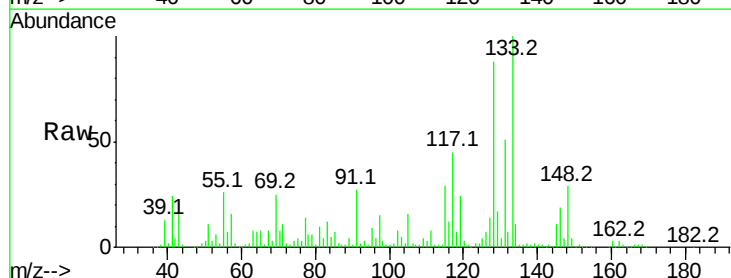
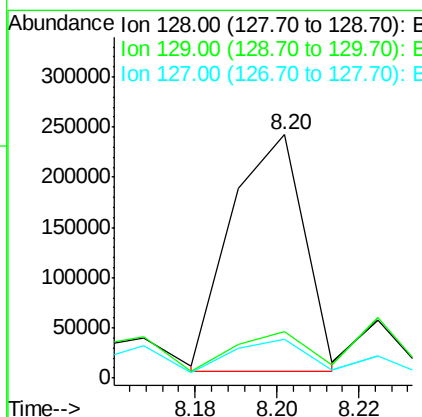
RT: 8.20 min Scan# 535

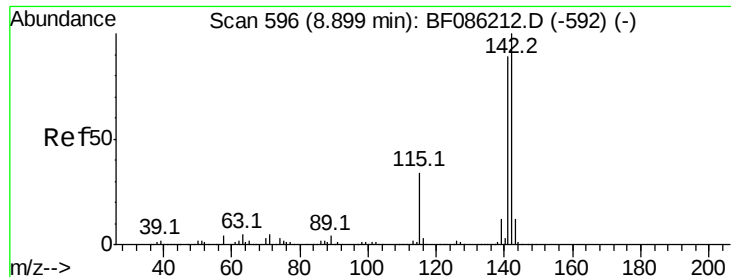
Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Tgt Ion	128	Resp	294011
Ion Ratio	Lower	Upper	
128	100		
129	18.9	9.6	14.4#
127	16.0	11.4	17.2





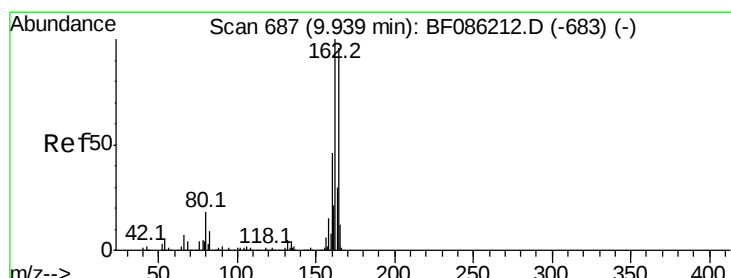
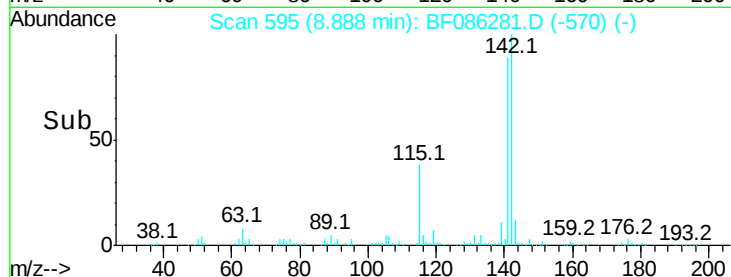
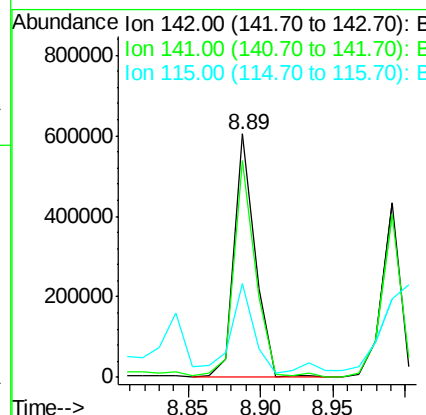
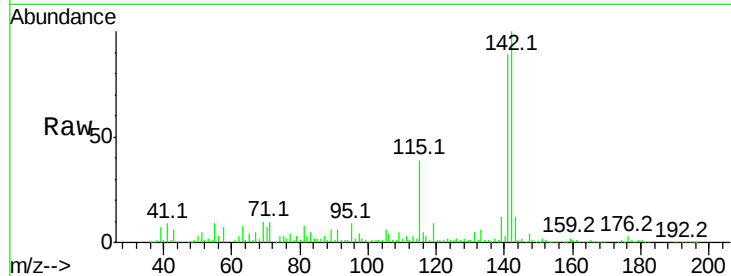
#37
 2-Methylnaphthalene
 Concen: 21.16 ng
 RT: 8.89 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Instrument :
 BNA_F
 ClientSampleId :
 PE-A-1DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	601646		
141	89.0	71.1	106.7	
115	38.6	25.1	37.7	

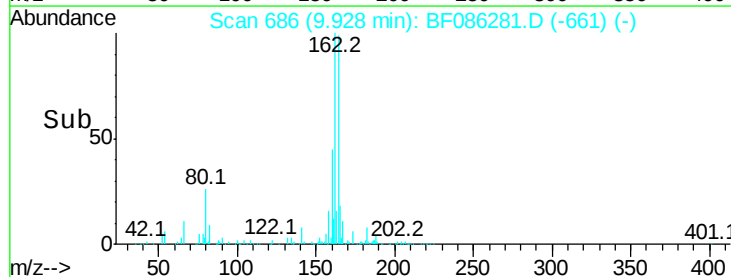
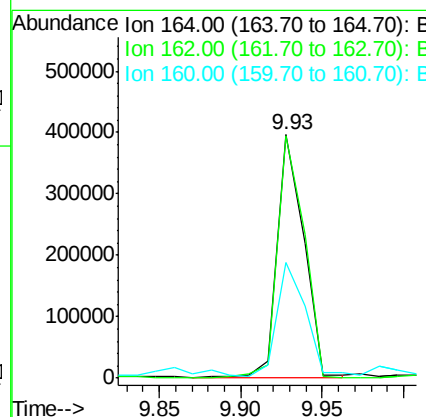
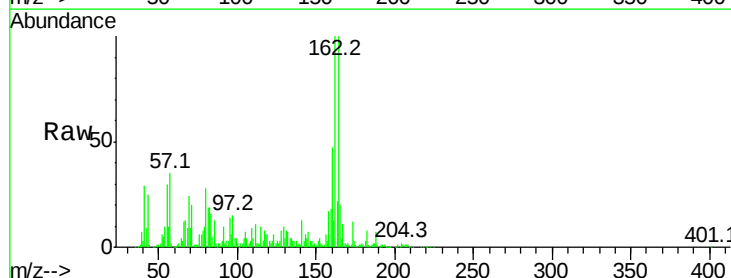
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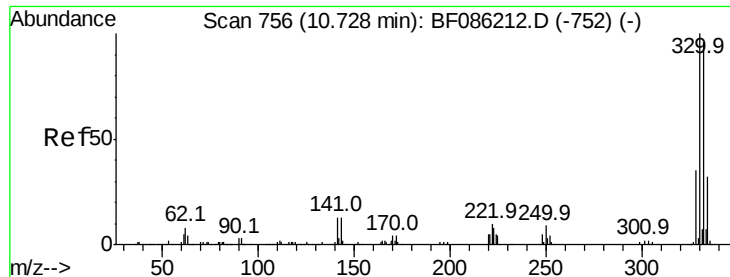
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.01 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	447297		
162	99.6	82.8	124.2	
160	47.3	38.9	58.3	





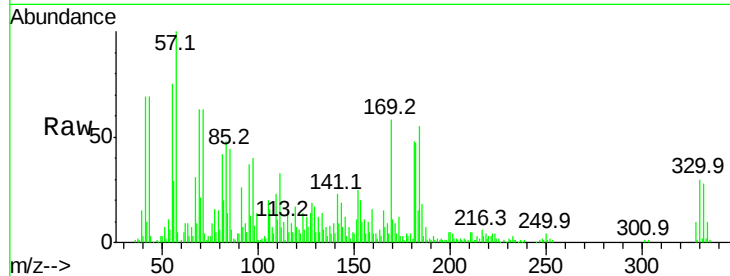
#41
 2,4,6-Tribromophenol
 Concen: 8.12 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Instrument :
 BNA_F
 ClientSampled :
 PE-A-1DL

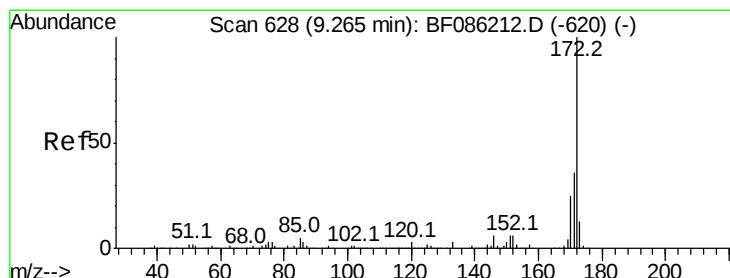
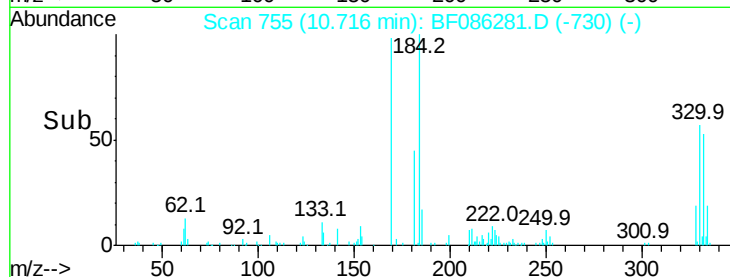
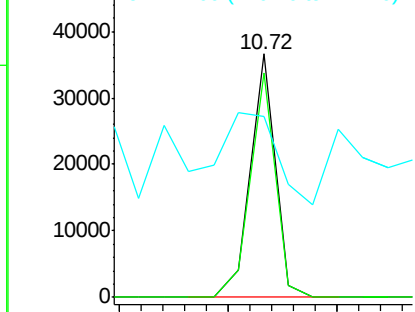
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	93.2	78.7	118.1	
141	125.0	28.6	42.8	

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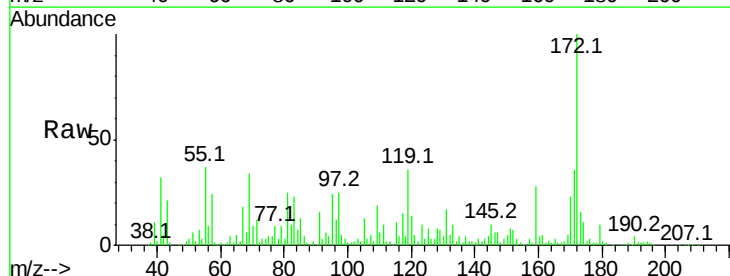


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

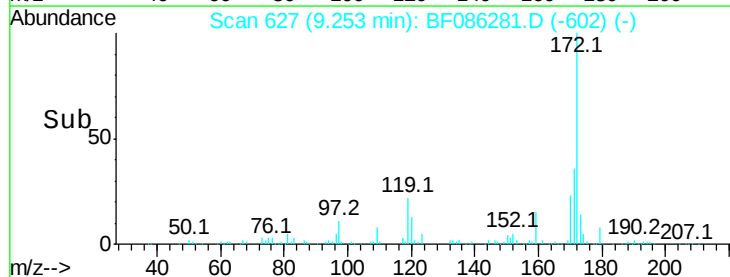
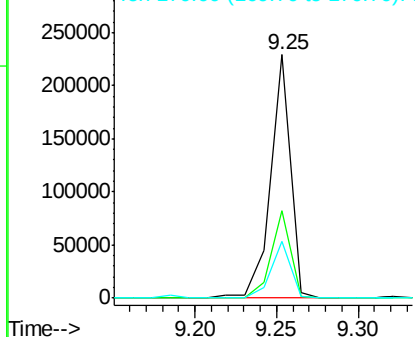


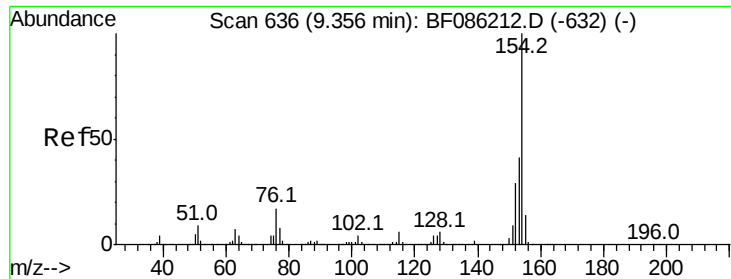
#44
 2-Fluorobiphenyl
 Concen: 8.12 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.8	29.1	43.7	
170	23.4	19.9	29.9	



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





#45

1,1'-Biphenyl

Concen: 3.73 ng

RT: 9.36 min Scan# 636

Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

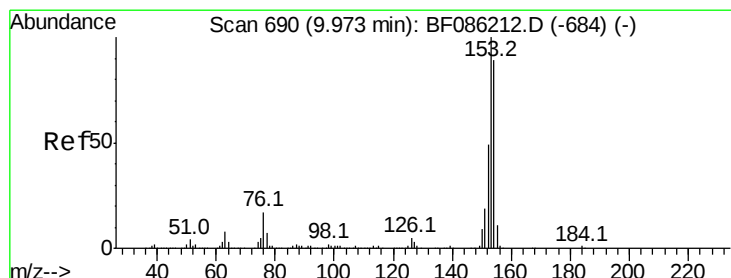
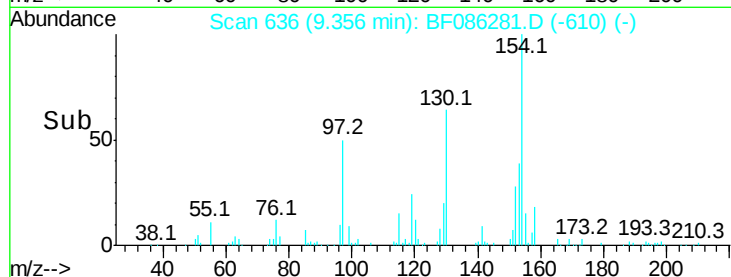
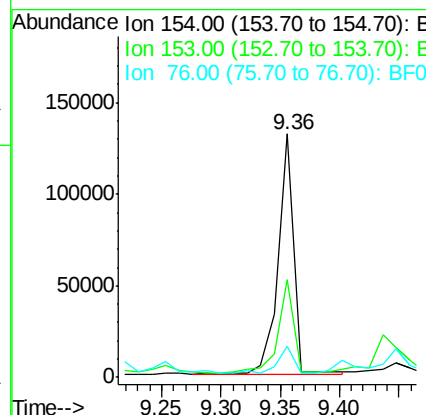
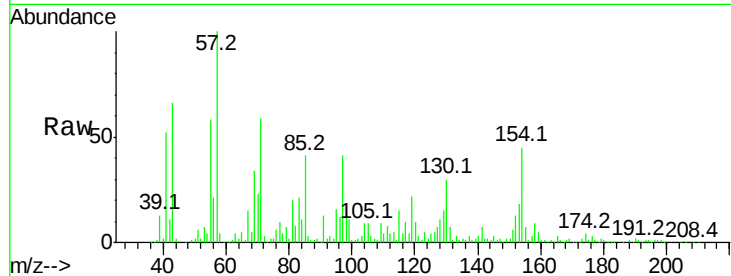
ClientSampled :

PE-A-1DL

Tot Ion:	154	Resp:	119962
Ion Ratio	Lower	Upper	
154	100		
153	40.0	21.3	61.3
76	12.8	0.0	36.4

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#51

Acenaphthene

Concen: 8.12 ng

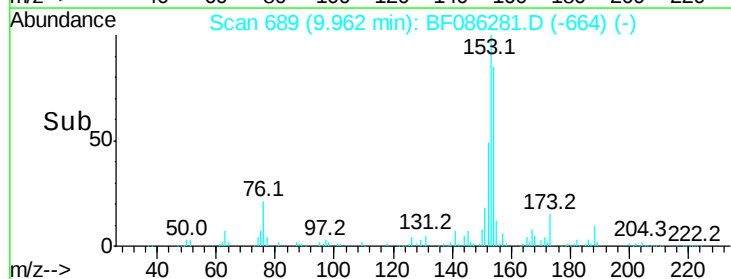
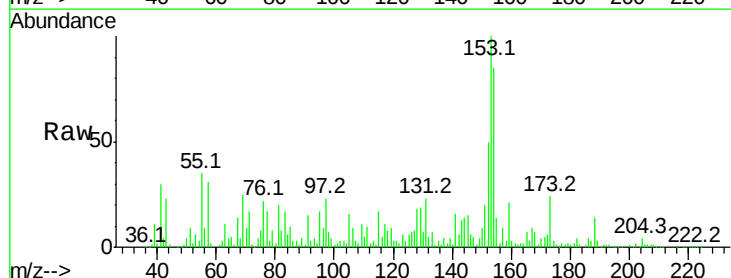
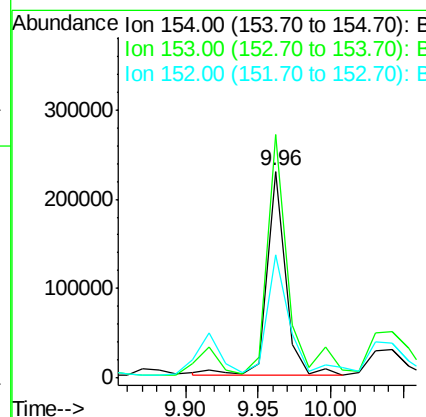
RT: 9.96 min Scan# 689

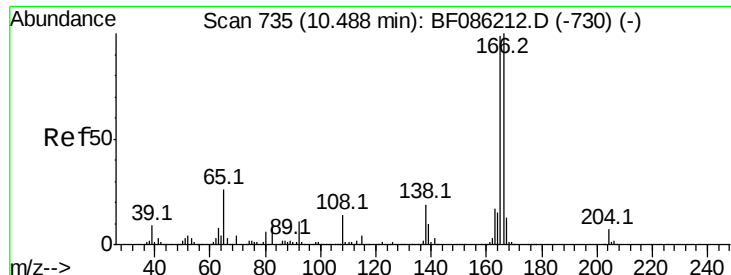
Delta R.T. -0.01 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Tgt Ion:	154	Resp:	202953
Ion Ratio	Lower	Upper	
154	100		
153	117.7	90.0	135.0
152	59.4	44.3	66.5





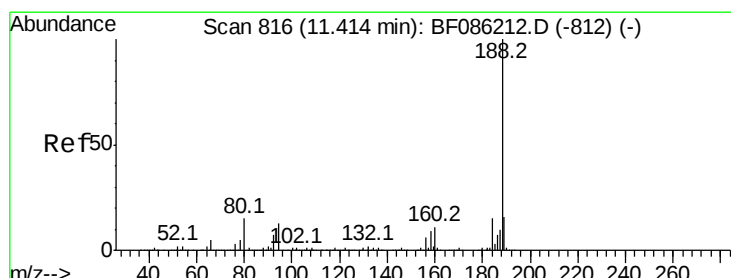
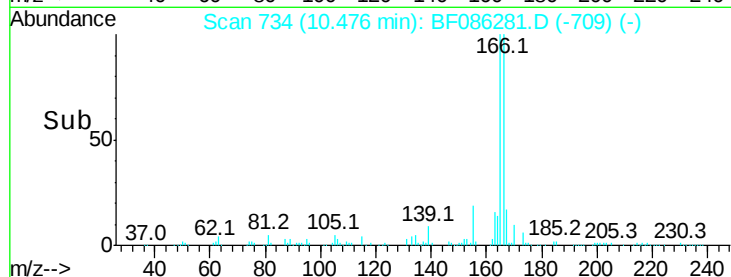
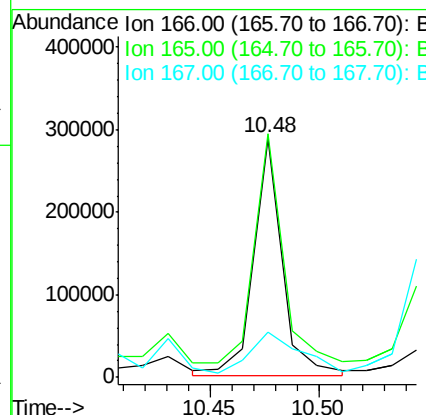
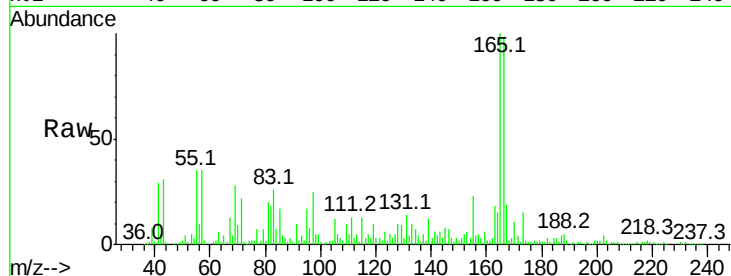
#57
Fluorene
 Concen: 8.54 ng
 RT: 10.48 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Instrument :
 BNA_F
 ClientSampleId :
 PE-A-1DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	260190		
165	102.0	78.6	117.8	
167	19.0	10.4	15.6	

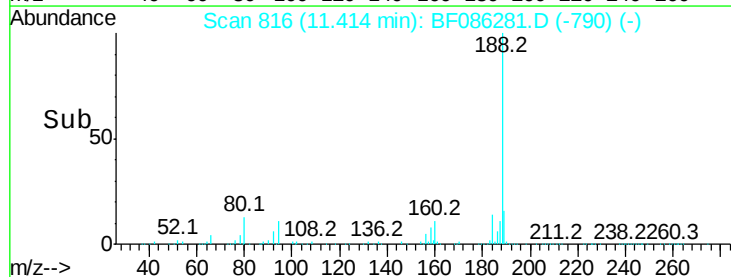
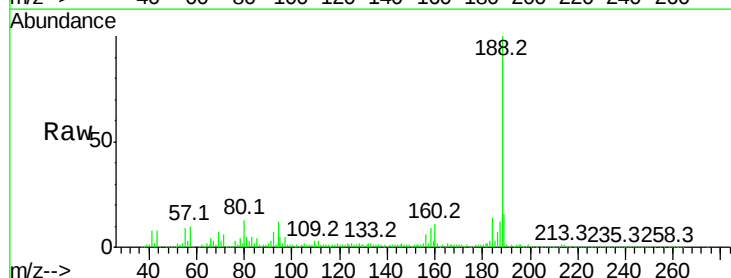
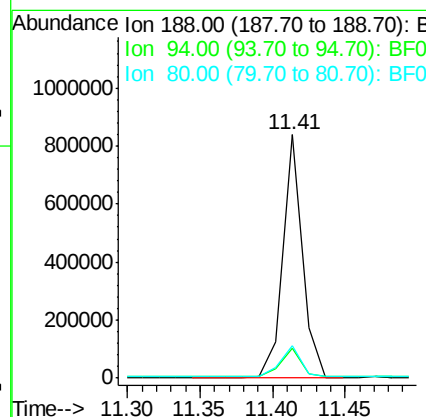
Manual Integrations
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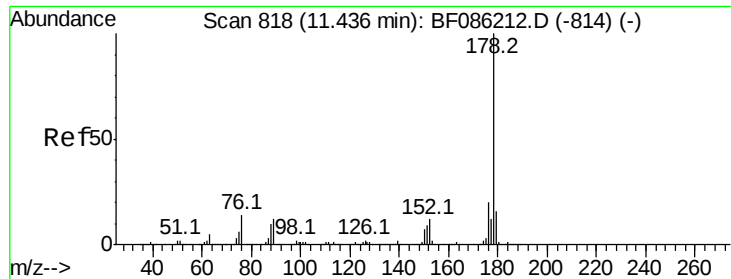
Sohil
 4/19/2016 6:22:04 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 816
 Delta R.T. 0.00 min
 Lab File: BF086281.D
 Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	784693		
94	12.1	9.8	14.8	
80	13.1	10.5	15.7	





#70

Phenanthrene

Concen: 48.72 ng

RT: 11.44 min Scan# 818

Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

ClientSampleId :

PE-A-1DL

Tot Ion:178 Resp: 1825871

Ion Ratio Lower Upper

178 100

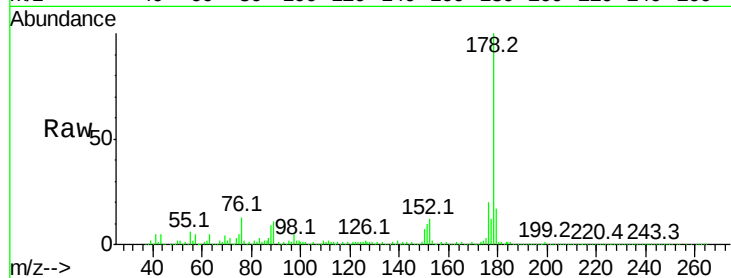
176 20.0 16.3 24.5

179 16.6 13.0 19.6

Manual Integrations
APPROVED

Sohil

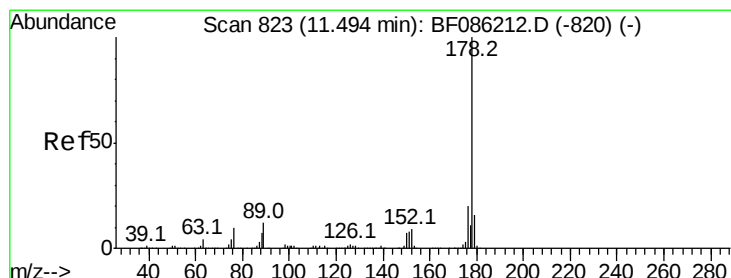
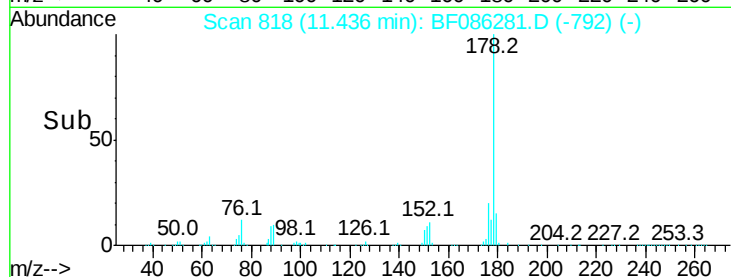
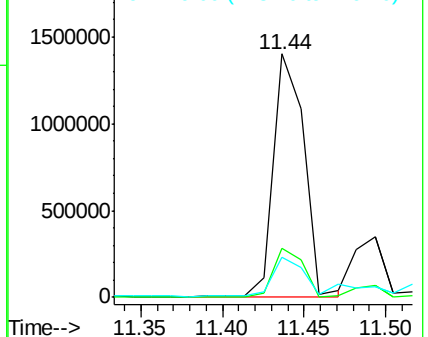
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 7.80 ng

RT: 11.49 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

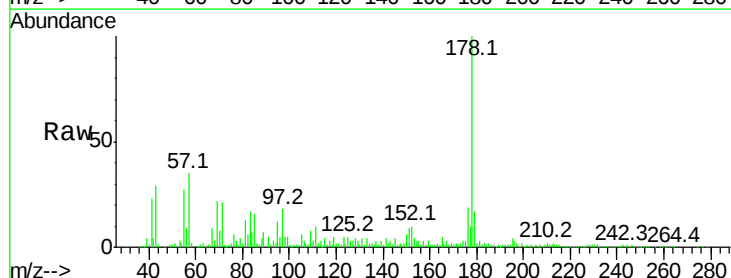
Tgt Ion:178 Resp: 392612

Ion Ratio Lower Upper

178 100

176 18.6 16.2 24.4

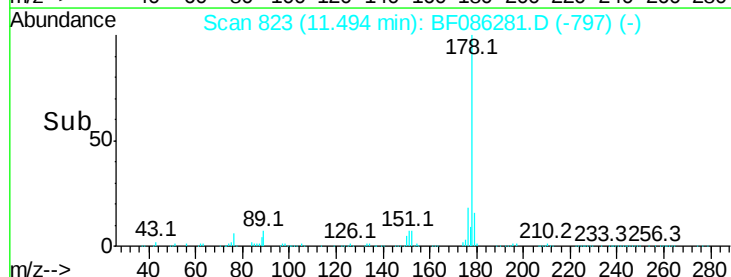
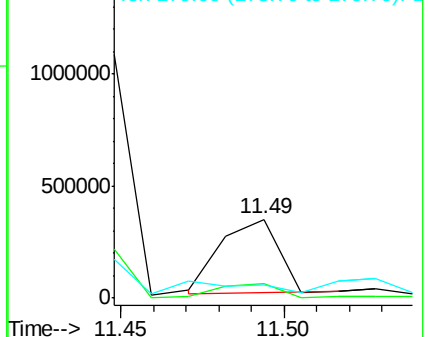
179 17.5 13.2 19.8

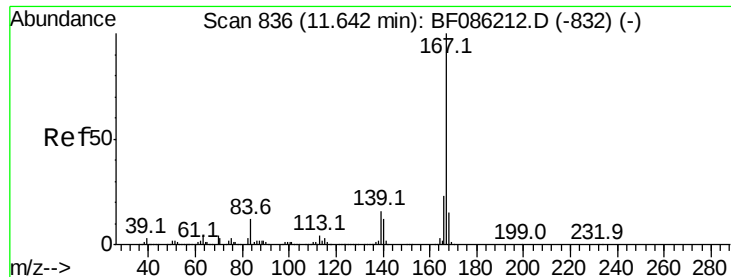


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 7.03 ng

RT: 11.64 min Scan# 836

Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

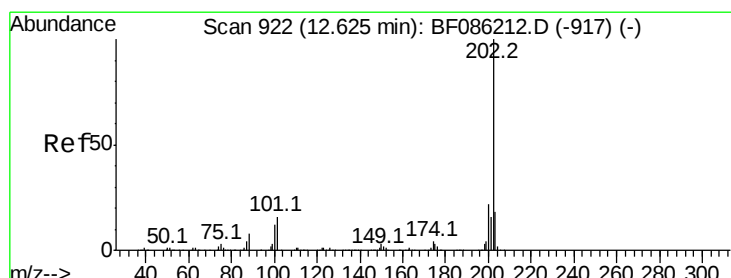
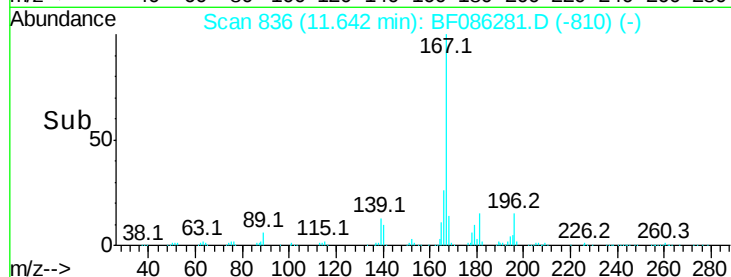
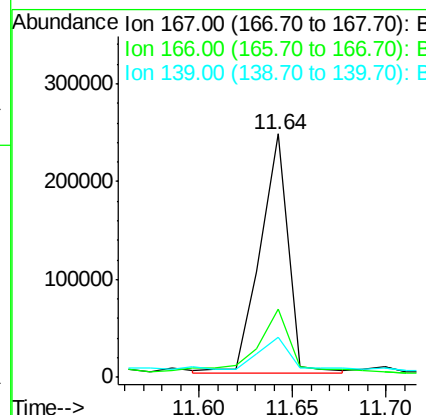
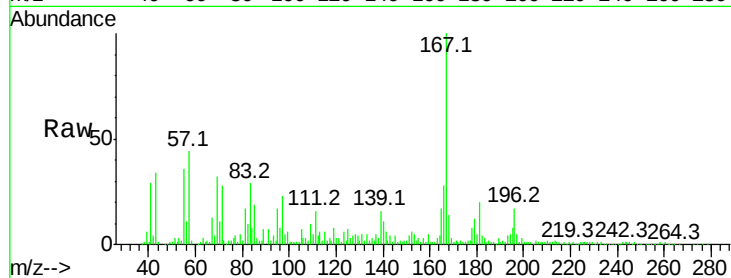
ClientSampleId :

PE-A-1DL

Tot Ion:	167	Resp:	250489
Ion Ratio		Lower	Upper
167	100		
166	28.2	18.3	27.5#
139	16.2	12.3	18.5

Manual Integrations
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#74

Fluoranthene

Concen: 44.38 ng

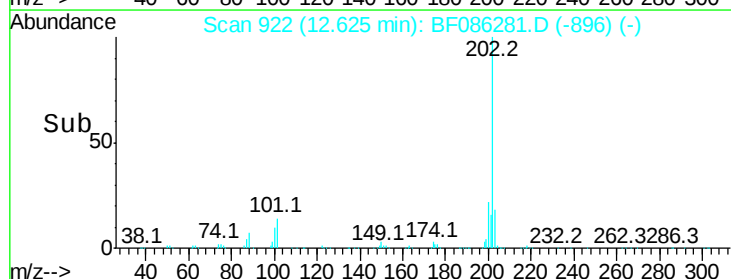
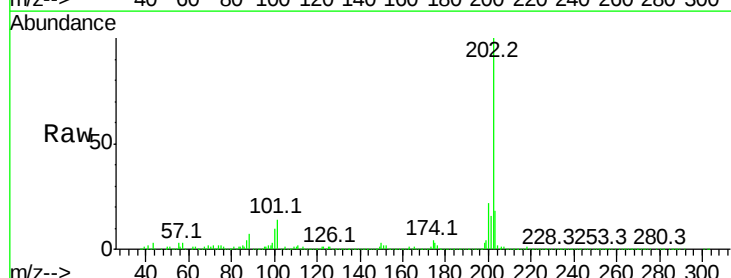
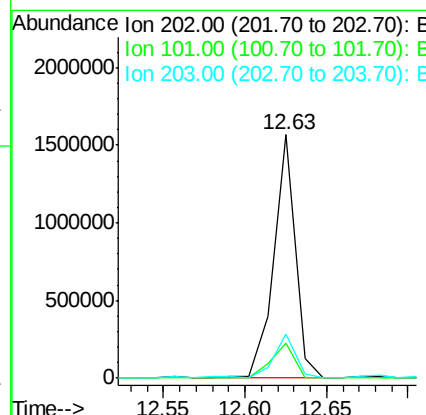
RT: 12.63 min Scan# 922

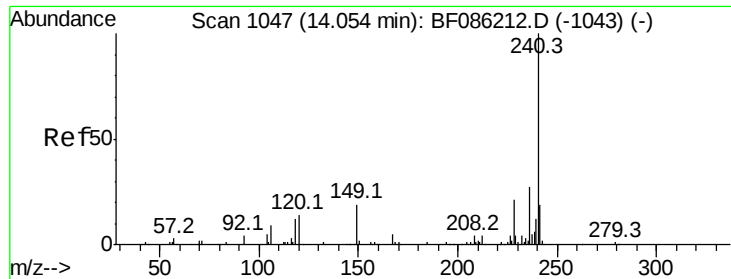
Delta R.T. 0.00 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Tgt Ion:	202	Resp:	1434058
Ion Ratio		Lower	Upper
202	100		
101	14.2	0.0	35.2
203	18.2	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

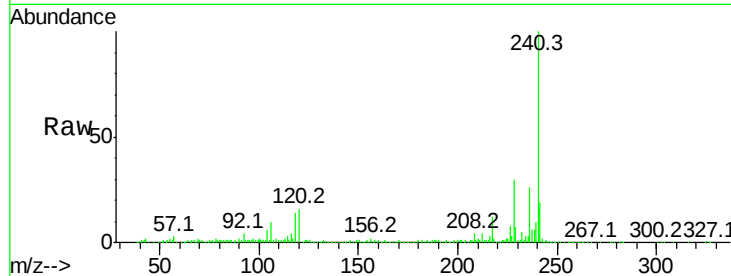
ClientSampleId :

PE-A-1DL

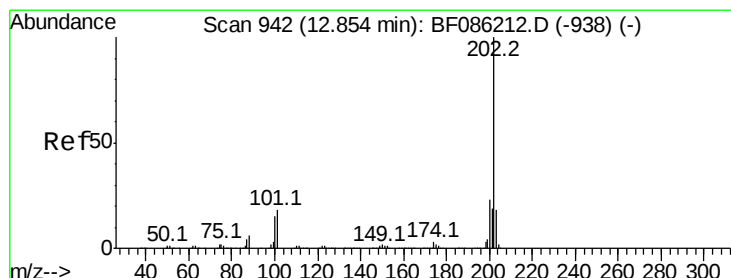
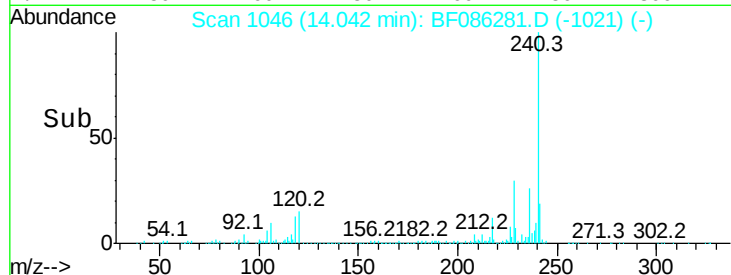
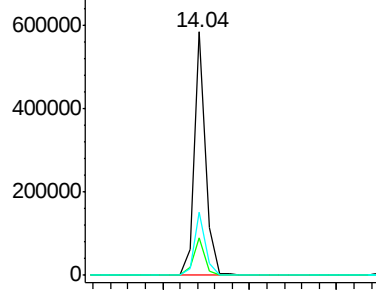
Tot Ion:	240	Resp:	535239
Ion Ratio	Lower	Upper	
240	100		
120	15.6	9.3	13.9#
236	26.0	21.1	31.7

Manual Integrations
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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

Pyrene

Concen: 32.72 ng

RT: 12.85 min Scan# 942

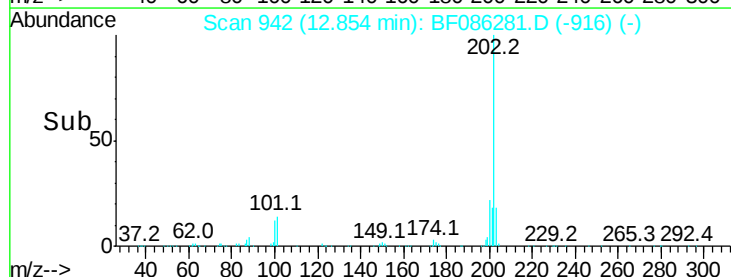
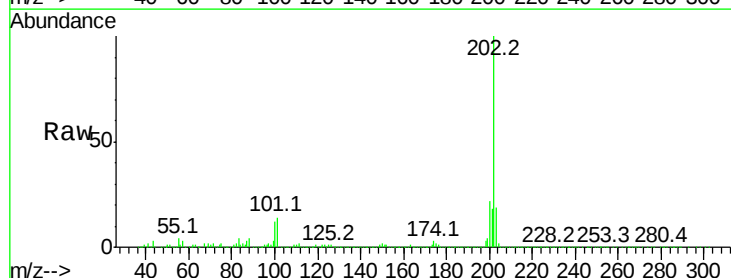
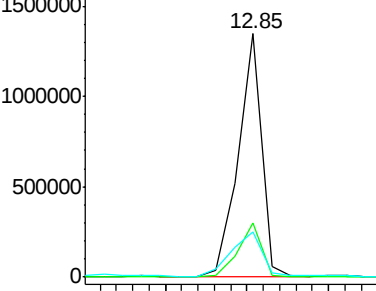
Delta R.T. 0.00 min

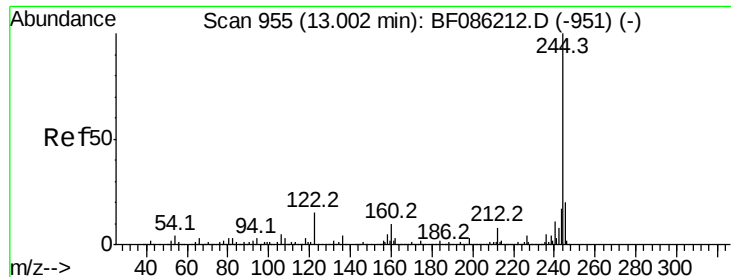
Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Tgt Ion:	202	Resp:	1343660
Ion Ratio	Lower	Upper	
202	100		
200	22.4	18.3	27.5
203	18.7	14.9	22.3

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 6.27 ng

RT: 12.99 min Scan# 954

Delta R.T. -0.01 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

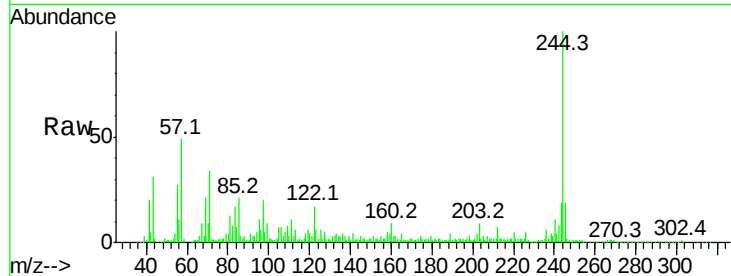
ClientSampleId :

PE-A-1DL

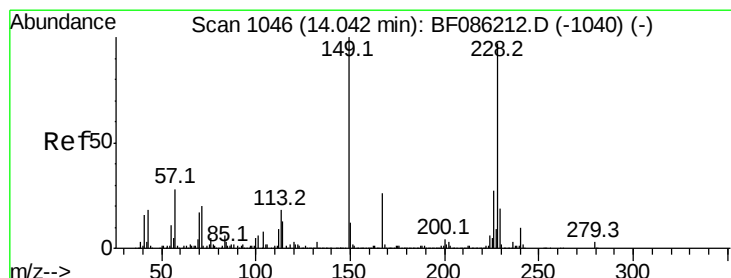
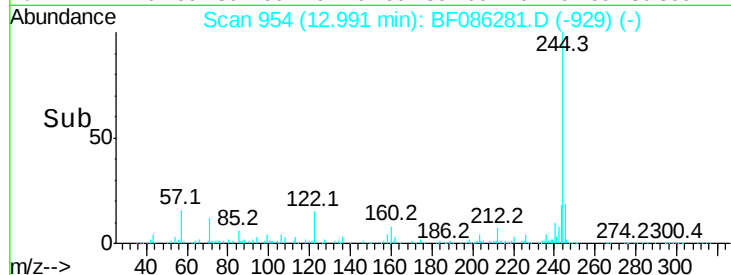
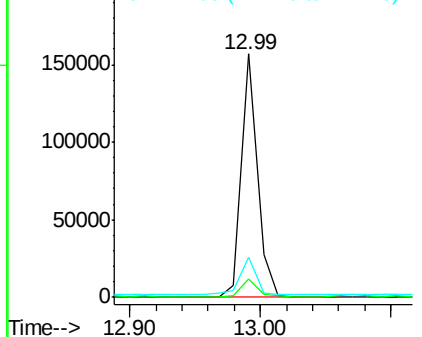
Tot Ion:	244	Resp:	133529
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.4	9.6
122	16.7	11.7	17.5

Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 21.64 ng

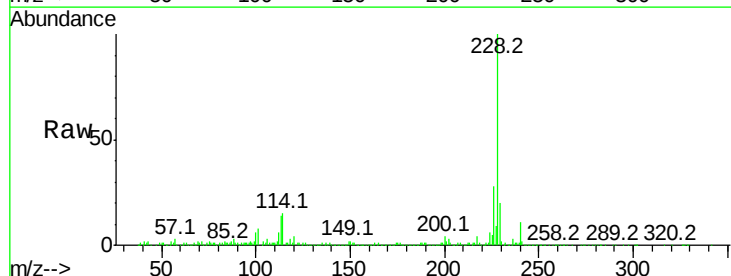
RT: 14.03 min Scan# 1045

Delta R.T. -0.01 min

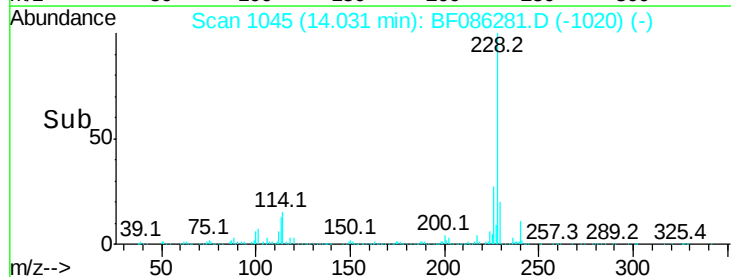
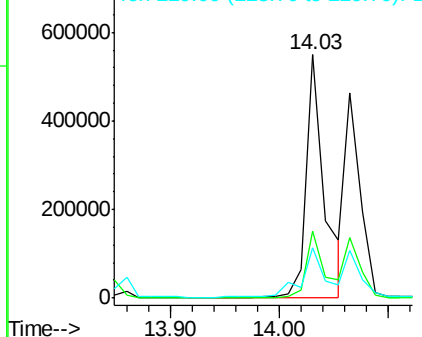
Lab File: BF086281.D

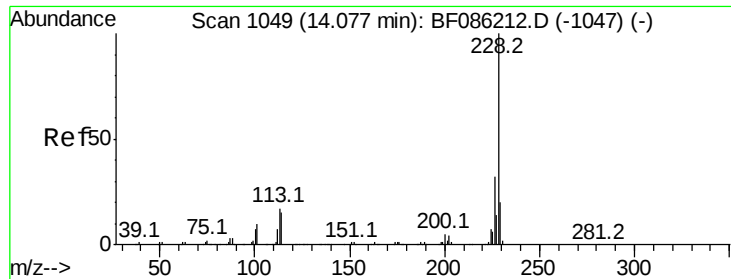
Acq: 18 Apr 2016 14:51

Tgt Ion:	228	Resp:	635740
Ion Ratio	Lower	Upper	
228	100		
226	27.6	22.5	33.7
229	20.4	16.2	24.2



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 14.74 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF086281.D

Acq: 18 Apr 2016 14:51

Instrument :

BNA_F

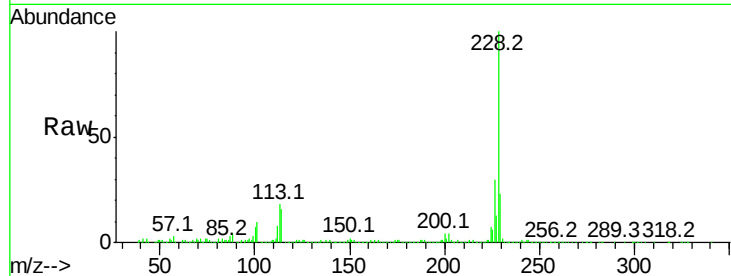
ClientSampled :

PE-A-1DL

Tot Ion:	228	Resp:	461742
Ion Ratio	Lower	Upper	
228	100		
226	29.6	25.4	38.2
229	23.0	16.5	24.7

Manual Integrations
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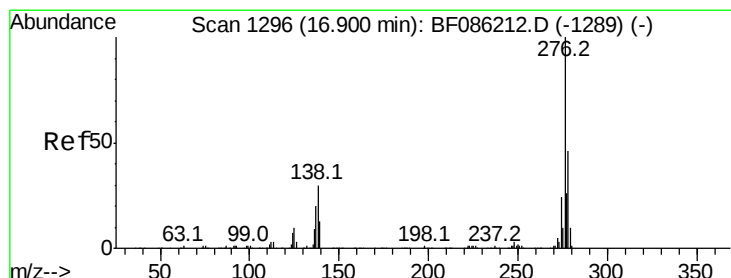
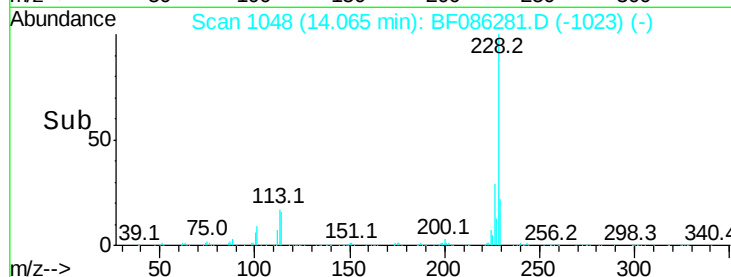
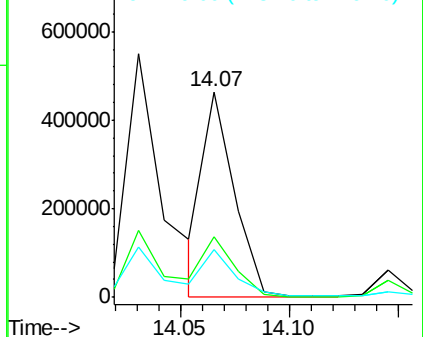
Sohil
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.08 ng

RT: 16.88 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BF086281.D

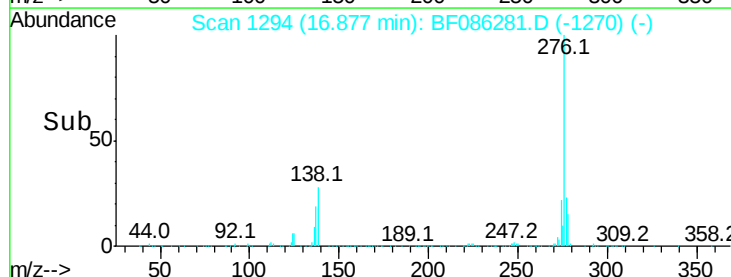
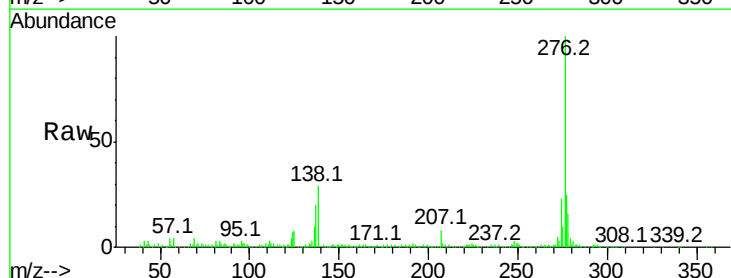
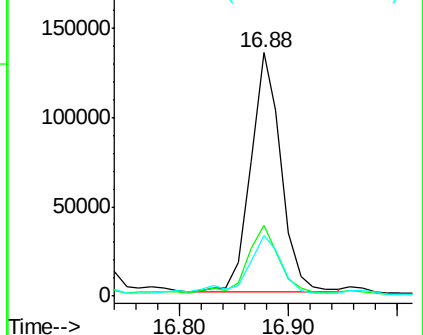
Acq: 18 Apr 2016 14:51

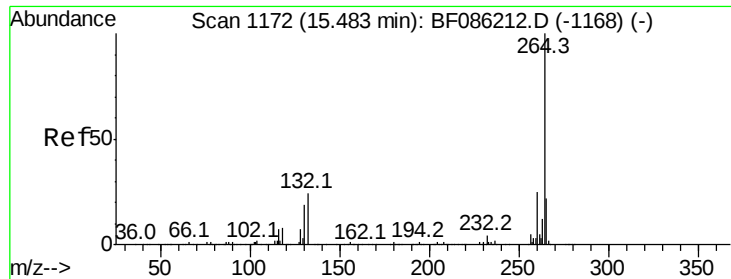
Tgt Ion:	276	Resp:	259507
Ion Ratio	Lower	Upper	
276	100		
138	30.6	23.8	35.6
277	28.4	20.2	30.2

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





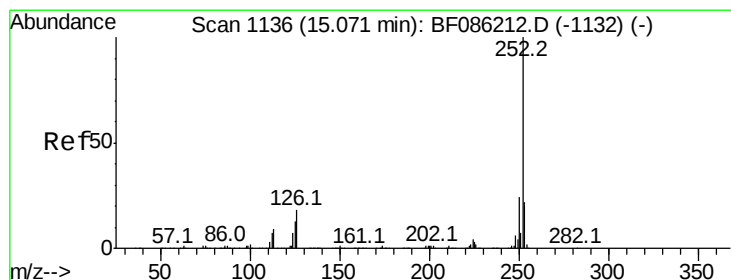
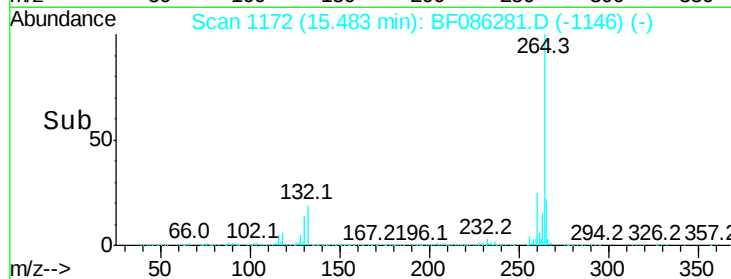
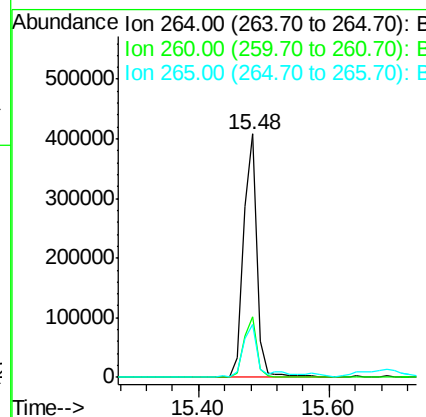
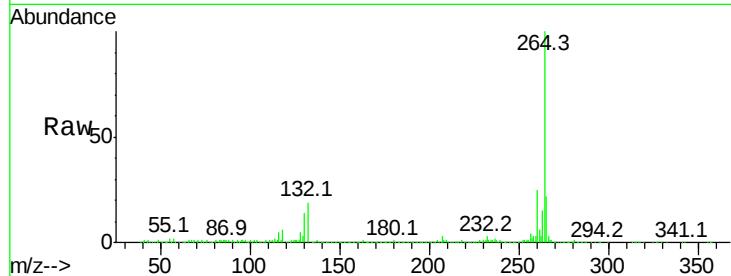
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.48 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Instrument :
BNA_F
ClientSampled :
PE-A-1DL

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.8	20.0	30.0	
265	21.8	17.4	26.0	

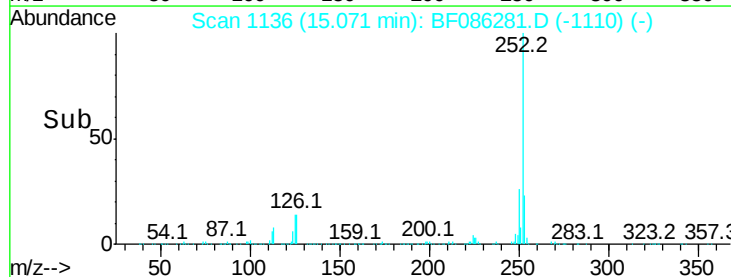
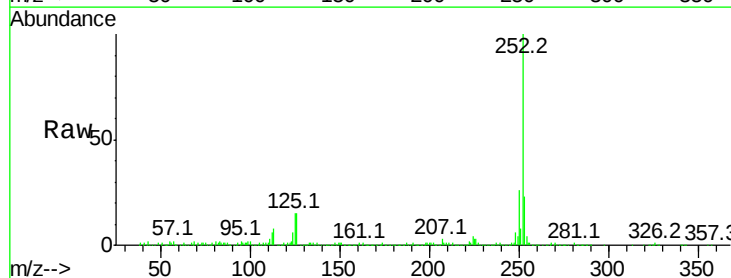
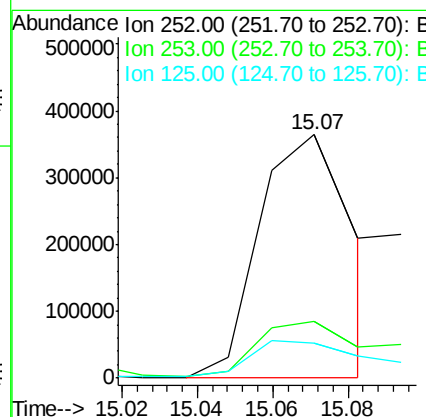
Manual Integrations
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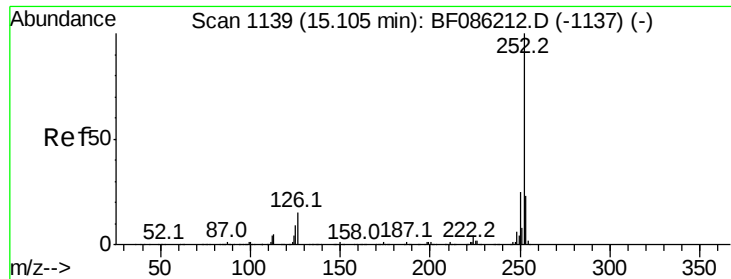
Sohil
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#87
Benzo(b)fluoranthene
Concen: 18.04 ng m
RT: 15.07 min Scan# 1136
Delta R.T. 0.00 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.1	17.7	26.5	
125	14.6	10.3	15.5	





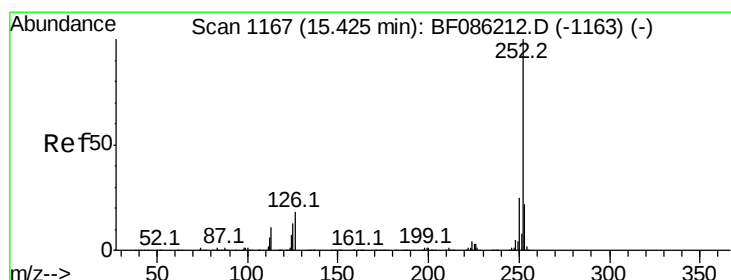
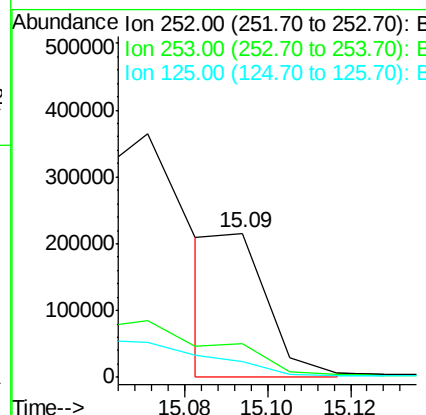
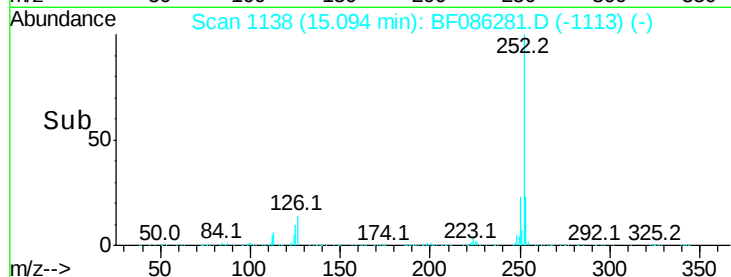
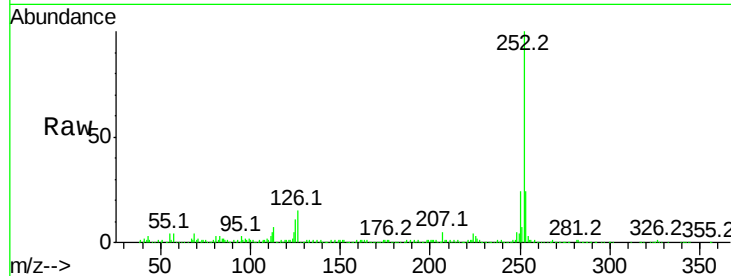
#88
Benzo(k)fluoranthene
Concen: 5.42 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Instrument :
BNA_F
ClientSampleId :
PE-A-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	11.3	7.8	11.6

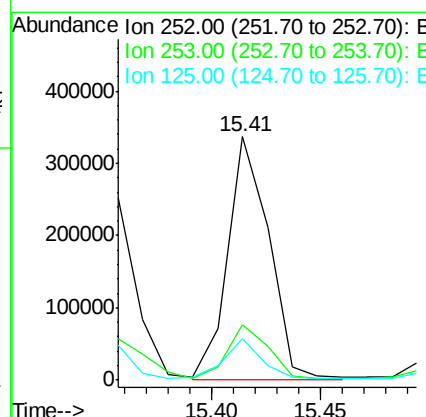
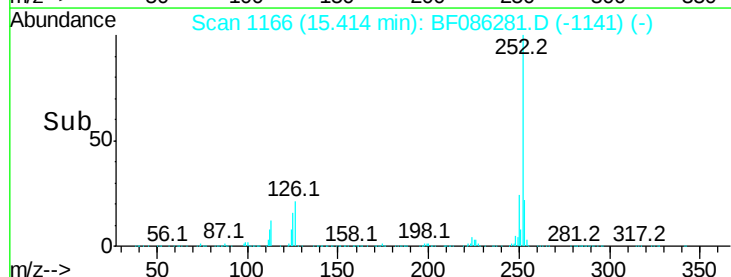
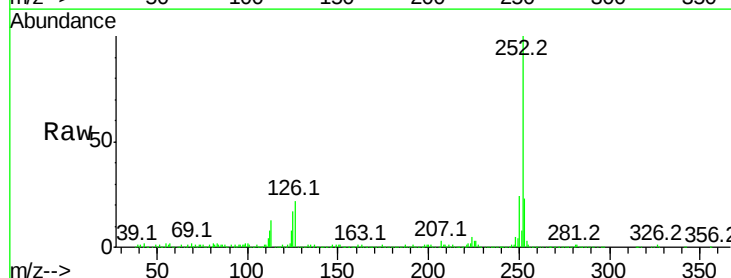
Manual Integrations
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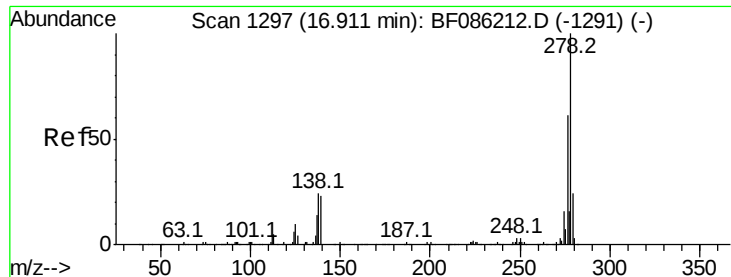
Sohil
4/19/2016 6:22:04 PM



#89
Benzo(a)pyrene
Concen: 14.56 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.01 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	16.8	11.2	16.8#





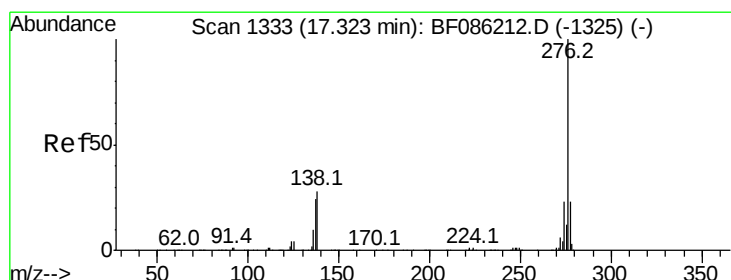
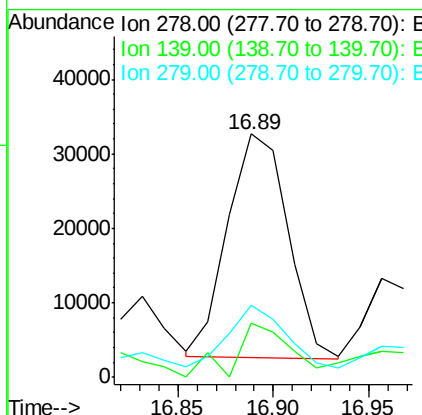
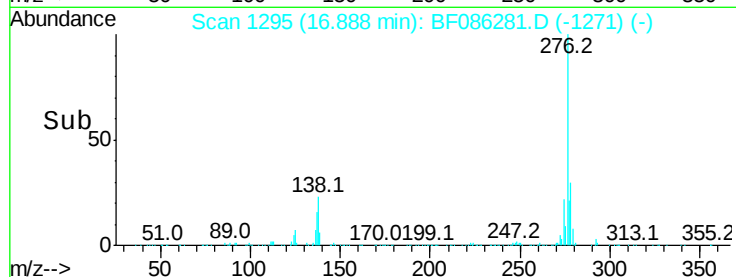
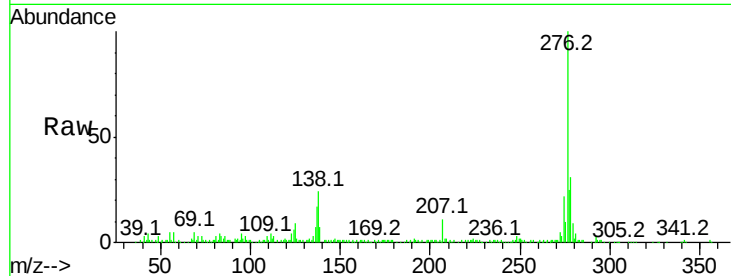
#90
Dibenzo(a,h)anthracene
Concen: 2.48 ng/mL
RT: 16.89 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Instrument :
BNA_F
ClientSampleId :
PE-A-1DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.5	15.3	22.9
279	29.8	19.1	28.7

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:04 PM



#91
Benzo(g,h,i)perylene
Concen: 8.35 ng/mL
RT: 17.30 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF086281.D
Acq: 18 Apr 2016 14:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.0	28.6
138	30.8	19.6	29.4

