

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
 Data File : BF082315.D
 Acq On : 15 Oct 2015 18:02
 Operator : UM/IZ
 Sample : G4016-12 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Manual Integrations
 APPROVED

MMdadoda
 10/16/2015 5:19:56 PM

Quant Time: Oct 16 06:49:55 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 16 01:04:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	84014	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	348870	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	175395	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	306810	20.00	ng	0.00
75) Chrysene-d12	14.09	240	210539	20.00	ng	0.00
86) Perylene-d12	15.66	264	230373	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	17683	4.25	ng	0.00
7) Phenol-d6	6.47	99	23655	4.37	ng	0.00
23) Nitrobenzene-d5	7.39	82	13996	2.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	6039	3.67	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	48183	4.56	ng	-0.01
78) Terphenyl-d14	12.96	244	41101	5.17	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.14	128	45386	3.00	ng	97
37) 2-Methylnaphthalene	8.83	142	30383	2.90	ng	98
48) Acenaphthylene	9.74	152	180188	10.99	ng	99
51) Acenaphthene	9.91	154	26048	2.65	ng	99
54) Dibenzofuran	10.08	168	124528	9.21	ng	94
57) Fluorene	10.42	166	104851m	9.44	ng	
70) Phenanthrene	11.39	178	1670476	111.08	ng	98
71) Anthracene	11.44	178	407576	26.30	ng	99
72) Carbazole	11.60	167	282483	19.98	ng	99
74) Fluoranthene	12.60	202	1596962	98.87	ng	98
77) Pyrene	12.82	202	1140831	91.31	ng	99
80) Benzo(a)anthracene	14.08	228	718821m	65.62	ng	
82) Chrysene	14.12	228	605276m	52.44	ng	
85) Indeno(1,2,3-cd)pyrene	17.11	276	285260	31.09	ng	94
87) Benzo(b)fluoranthene	15.24	252	895885m	63.92	ng	
88) Benzo(k)fluoranthene	15.26	252	108709m	9.23	ng	
89) Benzo(a)pyrene	15.60	252	478435m	39.72	ng	
90) Dibenzo(a,h)anthracene	17.11	278	87886m	8.90	ng	
91) Benzo(a,h,i)perylene	17.54	276	224177	23.38	ng	98

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

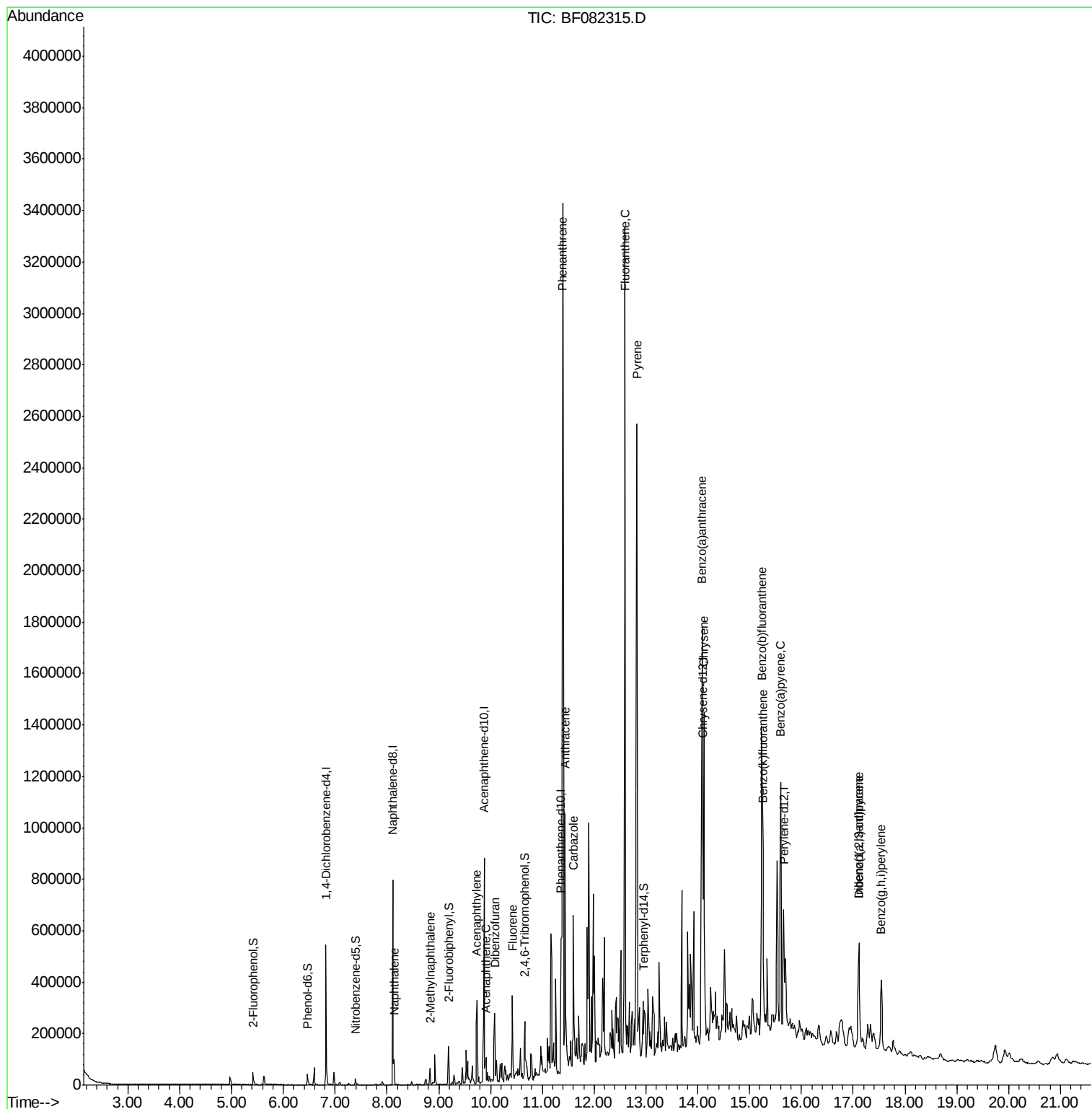
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
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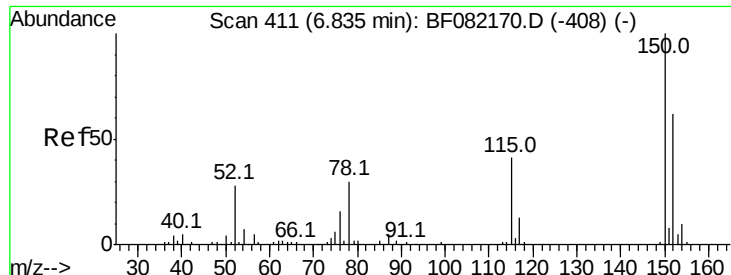
Instrument :
BNA_F
ClientSampleId :
CS-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

ClientSampleId :

CS-13

Tot Ion:152 Resp: 84014

Ion Ratio Lower Upper

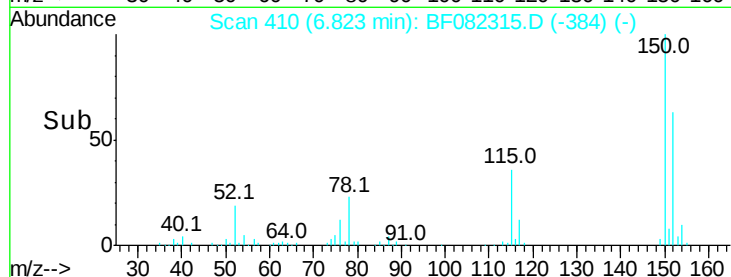
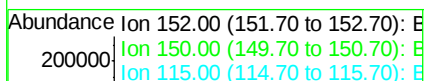
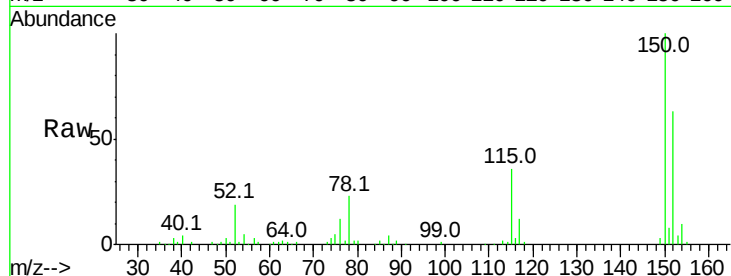
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150 158.0 129.0 193.4

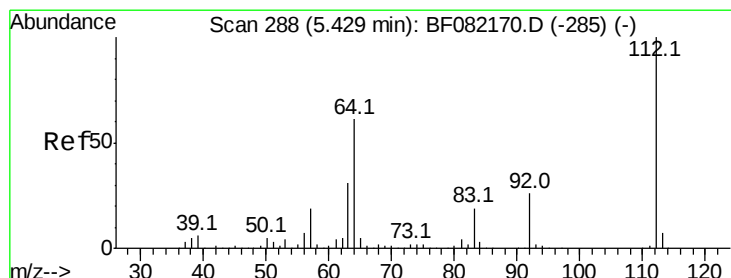
115 56.7 52.1 78.1

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Time-->



#5

2-Fluorophenol

Concen: 4.25 ng

RT: 5.42 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

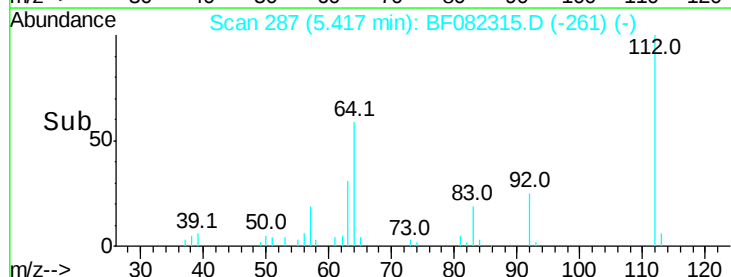
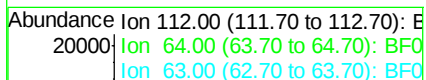
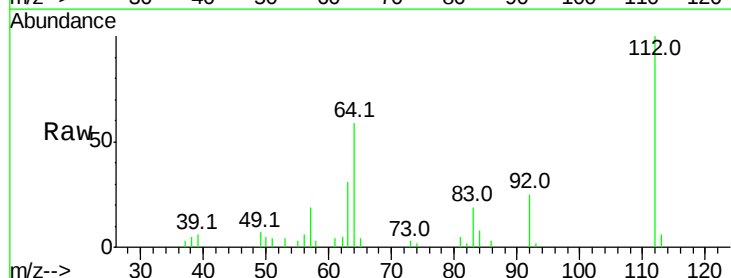
Tgt Ion:112 Resp: 17683

Ion Ratio Lower Upper

112 100

64 59.4 48.6 73.0

63 30.8 25.1 37.7





#7

Phenol-d6

Concen: 4.37 ng

RT: 6.47 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

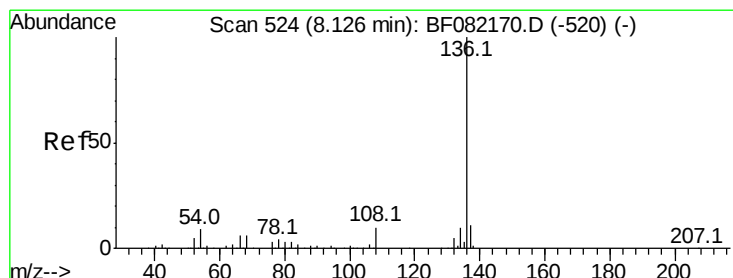
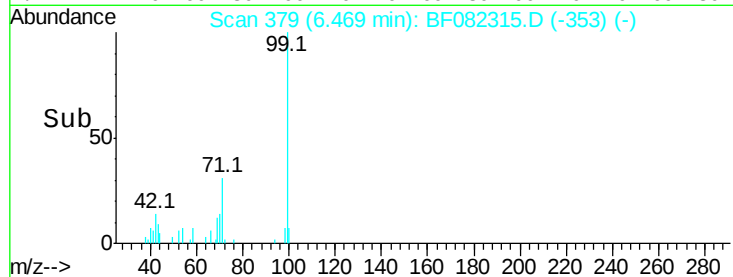
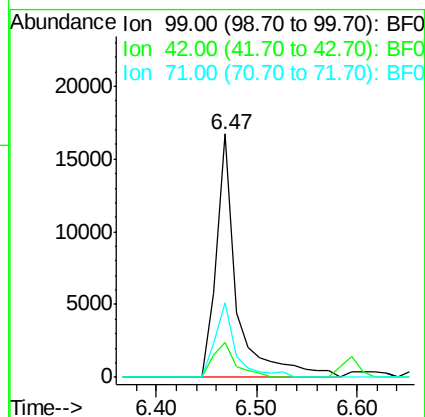
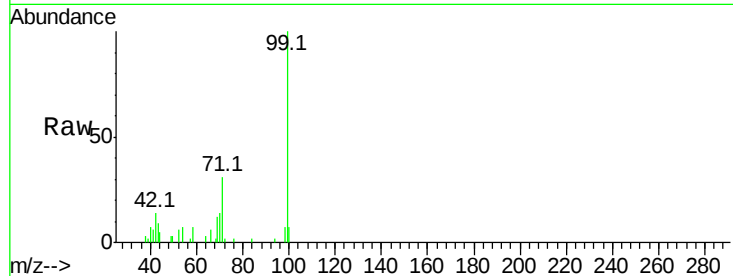
ClientSampleId :

CS-13

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Tot Ion:	99	Resp:	23655
Ion Ratio	Lower	Upper	
99	100		
42	14.3	13.2	19.8
71	30.5	25.6	38.4



#21

Naphthalene-d8

Concen: 20.00 ng

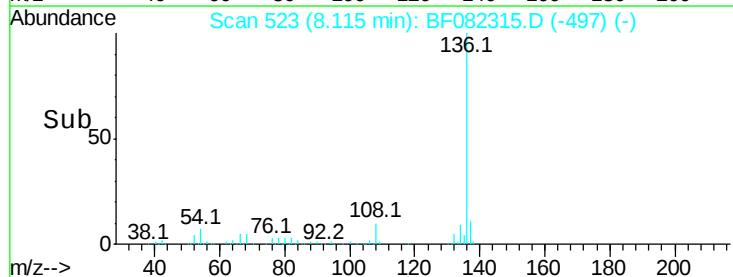
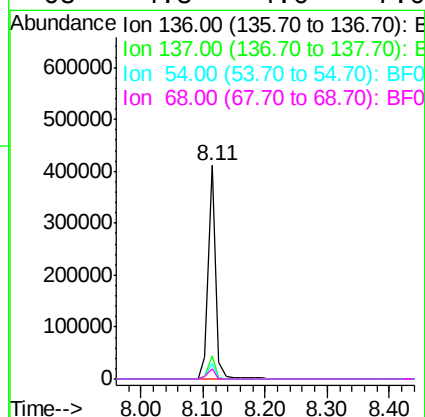
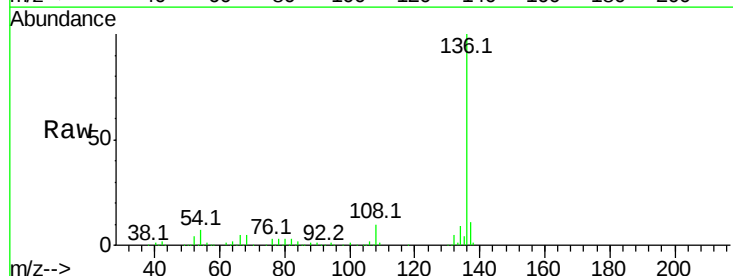
RT: 8.11 min Scan# 523

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Tgt Ion:	136	Resp:	348870
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.0	13.6
54	7.3	7.5	11.3#
68	4.8	4.6	7.0





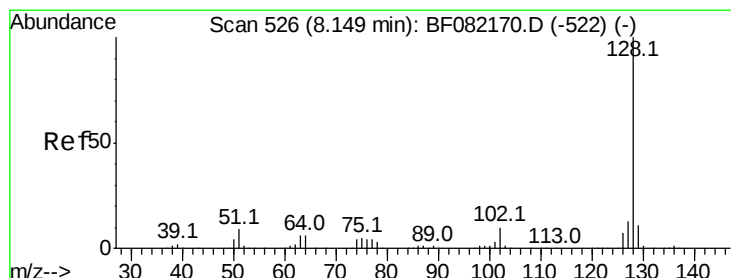
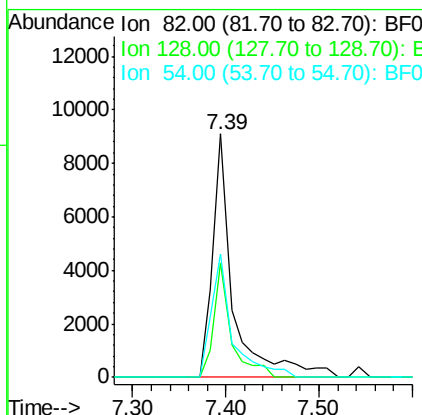
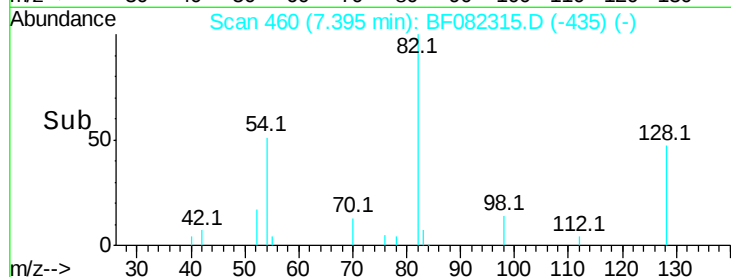
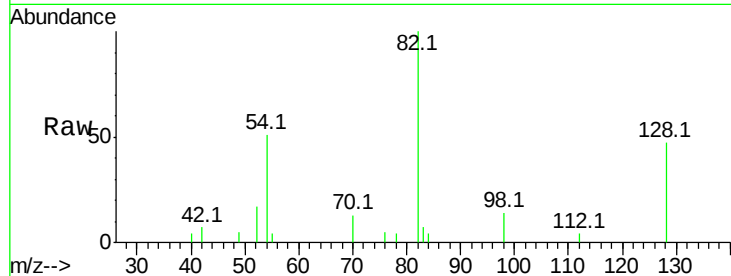
#23
Nitrobenzene-d5
Concen: 2.69 ng
RT: 7.39 min Scan# 460
Delta R.T. -0.01 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.1	38.7	58.1
54	50.6	40.1	60.1

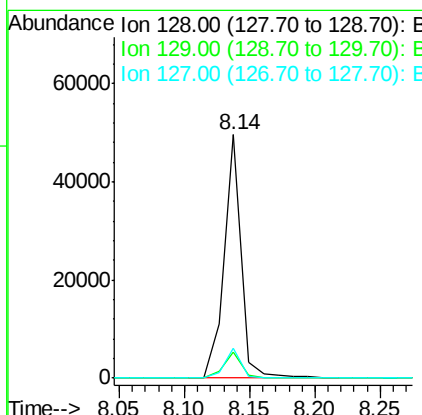
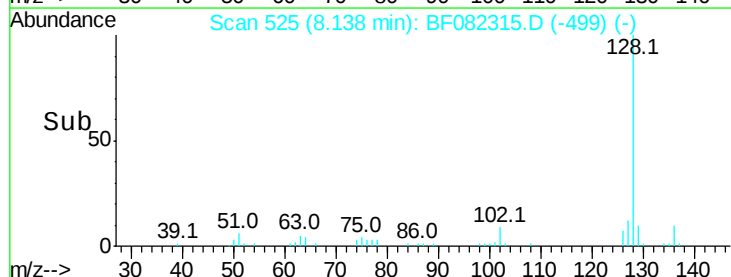
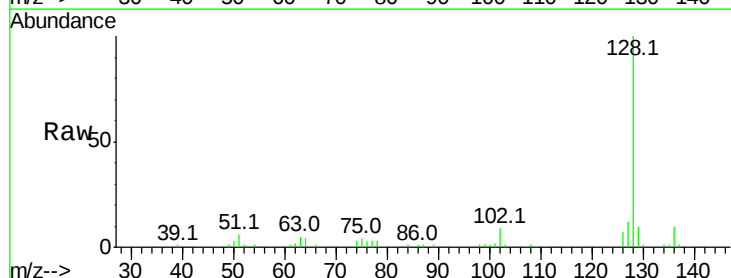
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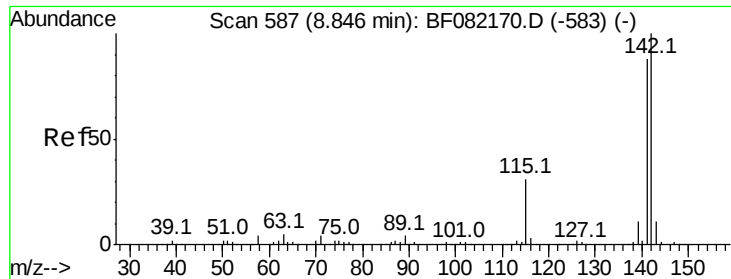
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#31
Naphthalene
Concen: 3.00 ng
RT: 8.14 min Scan# 525
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.1	13.7
127	12.2	10.7	16.1





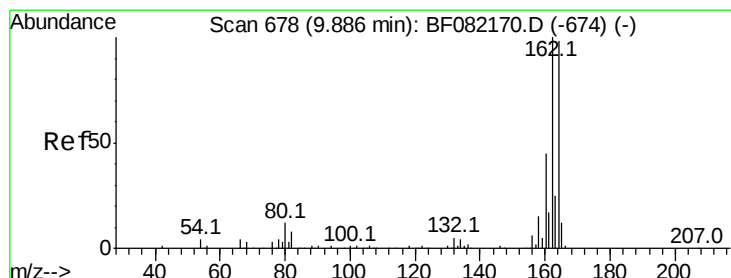
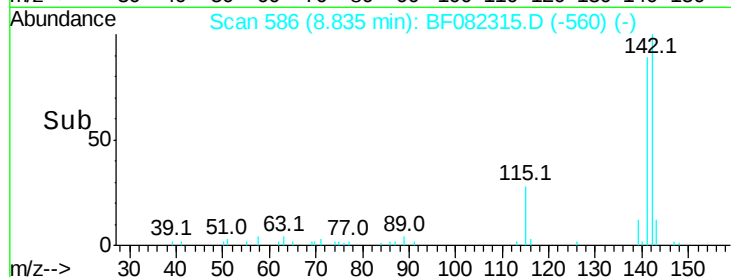
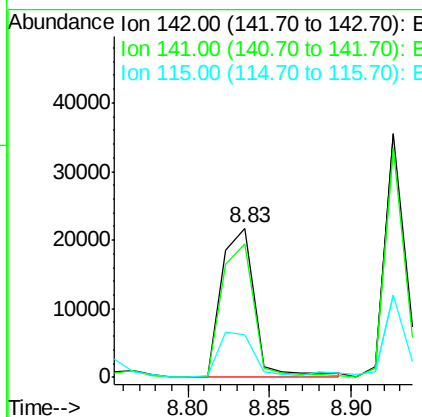
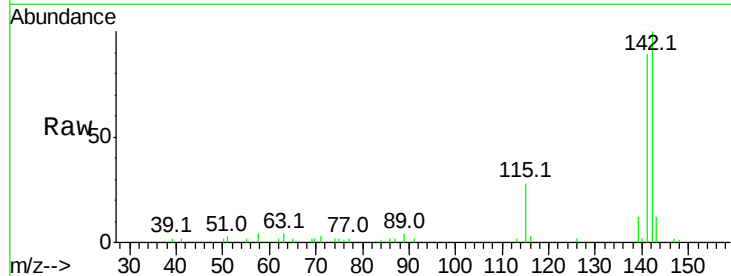
#37
 2-Methylnaphthalene
 Concen: 2.90 ng
 RT: 8.83 min Scan# 586
 Delta R.T. 0.00 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Instrument :
 BNA_F
 ClientSampleID :
 CS-13

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.4	105.6
115	28.5	24.6	37.0

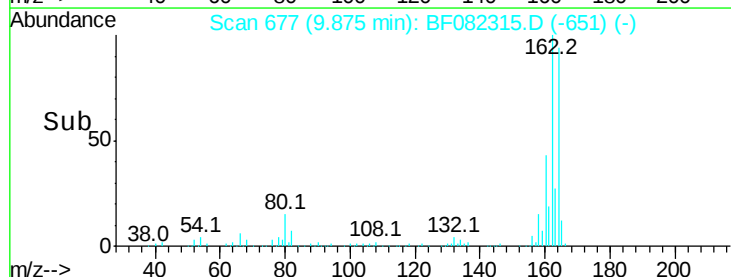
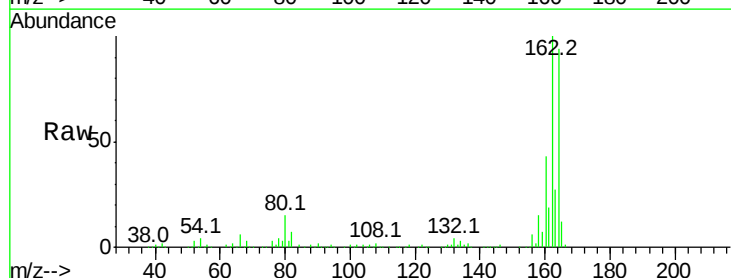
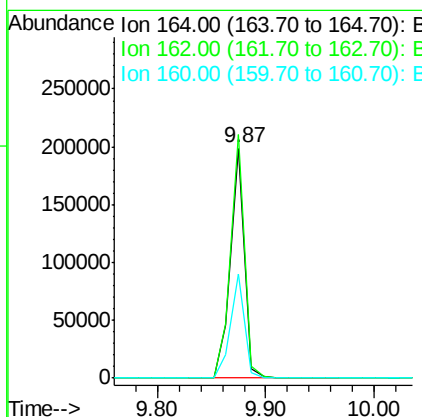
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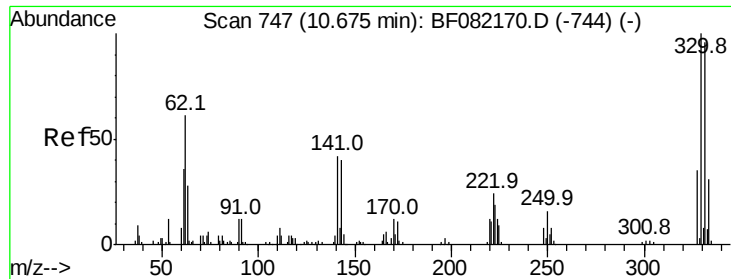
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.87 min Scan# 677
 Delta R.T. 0.00 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	81.6	122.4
160	45.4	36.4	54.6





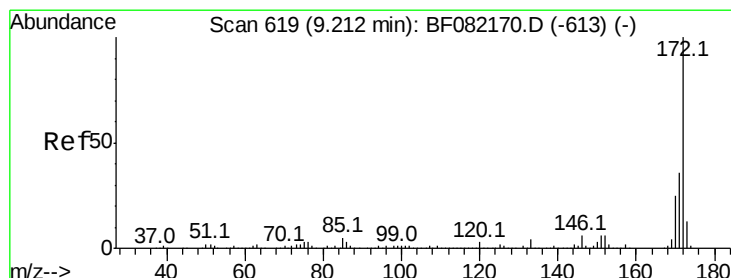
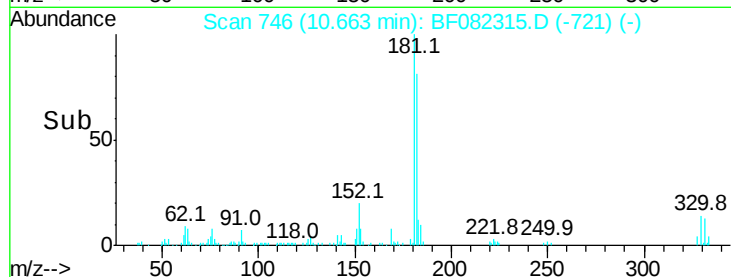
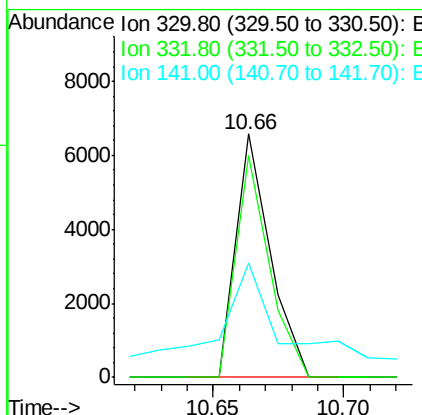
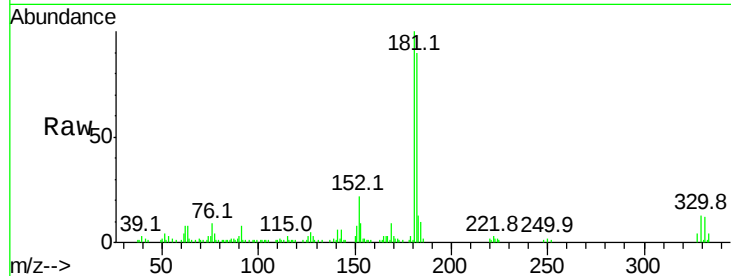
#41
 2,4,6-Tribromophenol
 Concen: 3.67 ng
 RT: 10.66 min Scan# 746
 Delta R.T. -0.01 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Tot Ion	Ratio	Lower	Upper
330	100		
332	88.9	77.1	115.7
141	69.4	29.8	44.8#

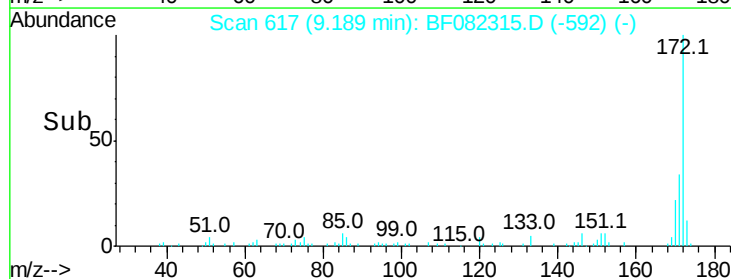
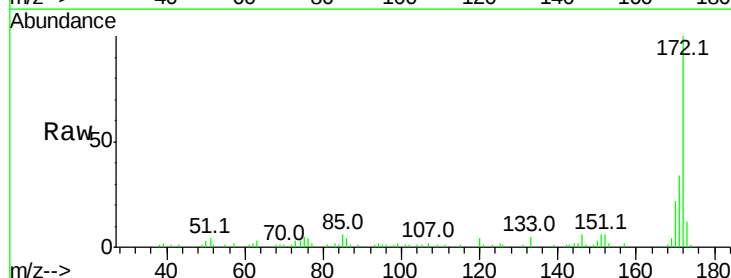
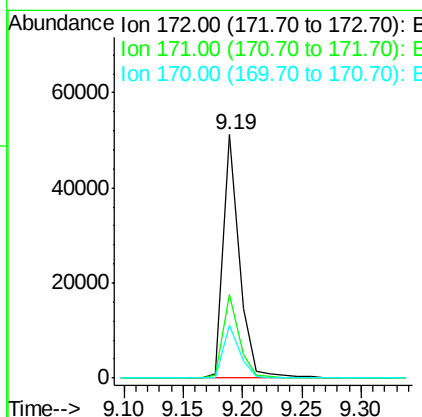
Manual Integrations
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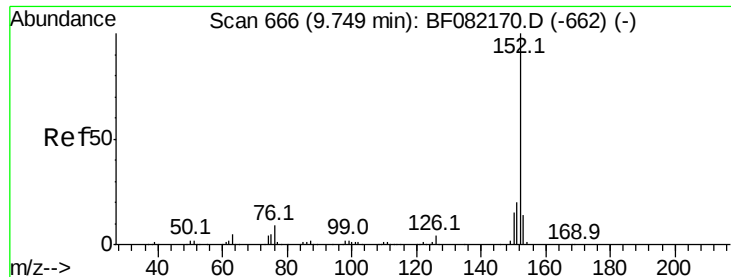
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#44
 2-Fluorobiphenyl
 Concen: 4.56 ng
 RT: 9.19 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.6	42.8
170	21.6	19.7	29.5





#48

Acenaphthylene

Concen: 10.99 ng

RT: 9.74 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

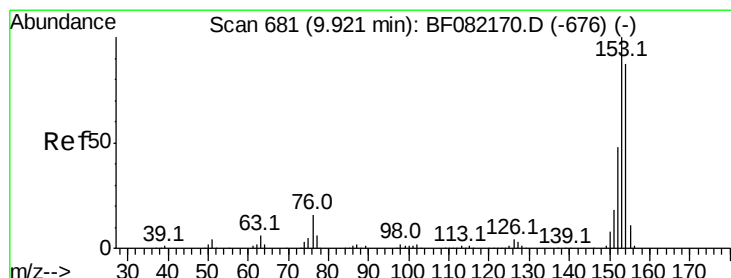
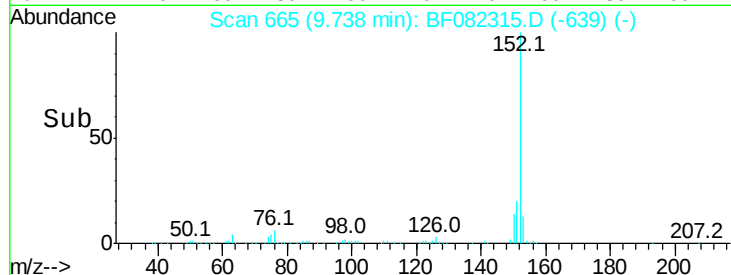
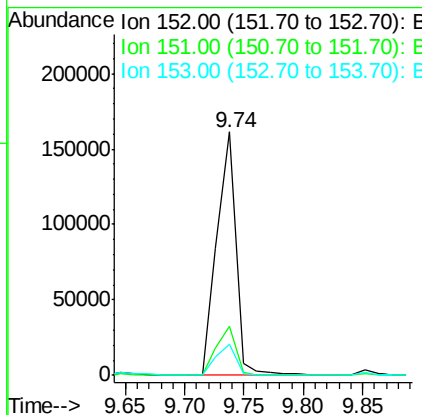
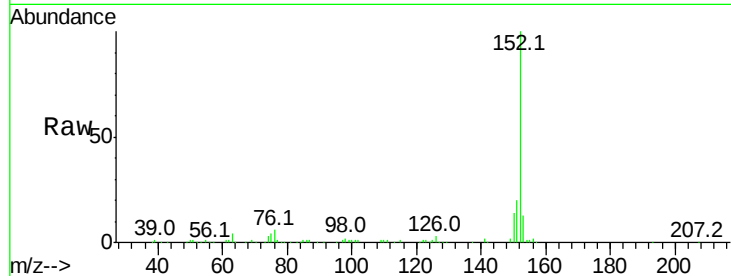
ClientSampleId :

CS-13

Tot Ion:	152	Resp:	180188
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.4	24.6
153	12.7	10.8	16.2

Manual Integrations
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#51

Acenaphthene

Concen: 2.65 ng

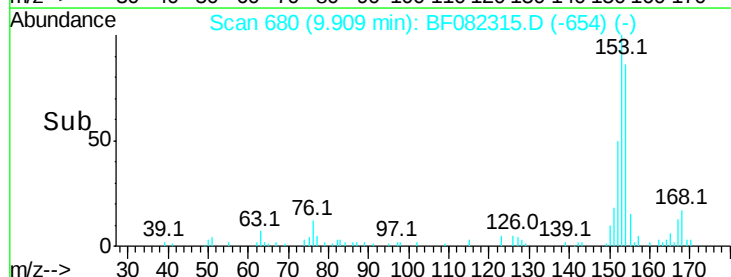
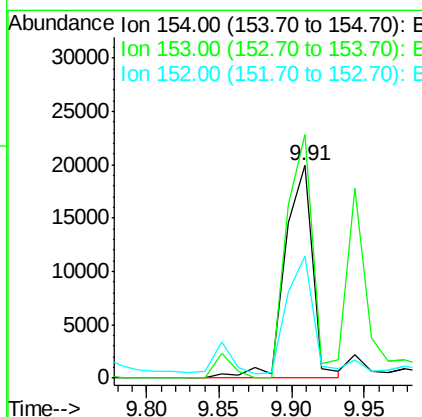
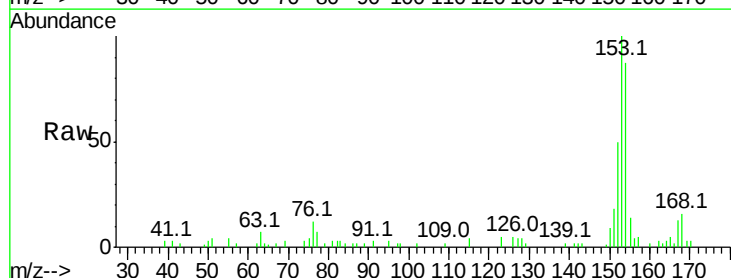
RT: 9.91 min Scan# 680

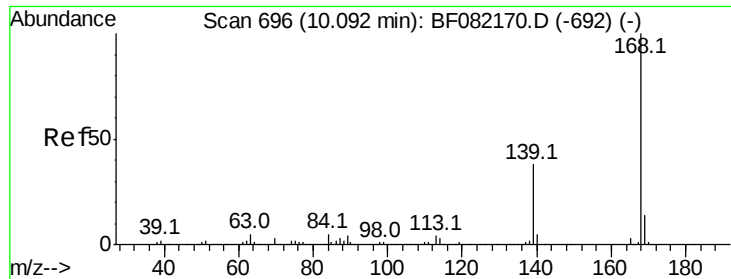
Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Tgt Ion:	154	Resp:	26048
Ion Ratio	Lower	Upper	
154	100		
153	114.5	91.4	137.2
152	57.5	44.3	66.5





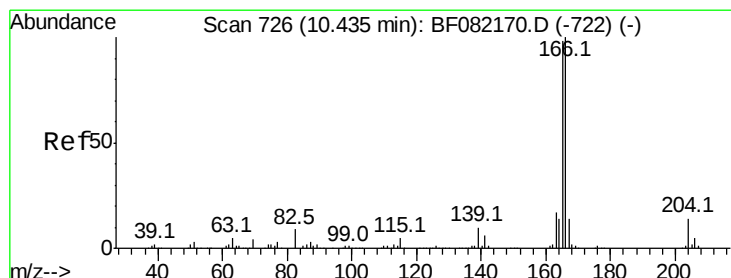
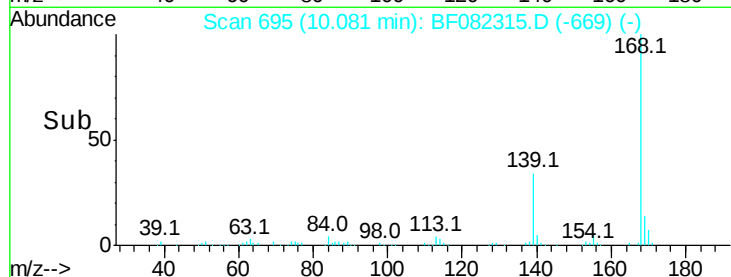
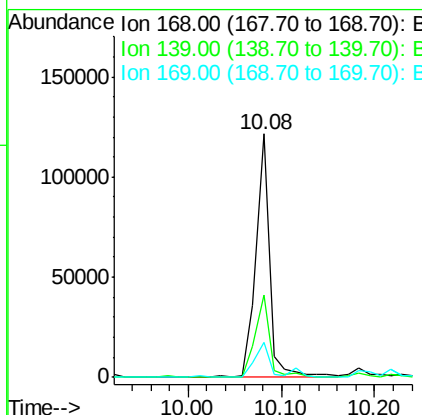
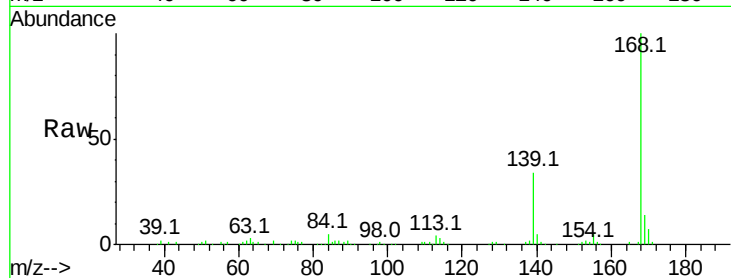
#54
Dibenzenofuran
Concen: 9.21 ng
RT: 10.08 min Scan# 695
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	33.9	31.0	46.6	
169	14.2	10.9	16.3	

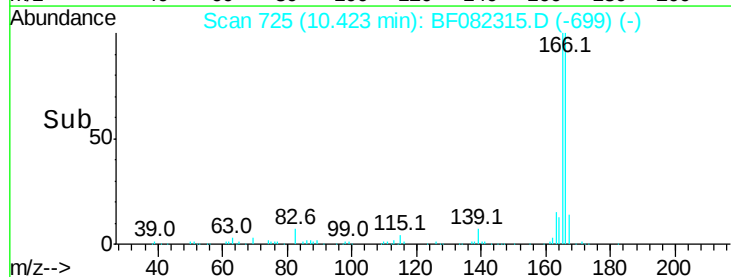
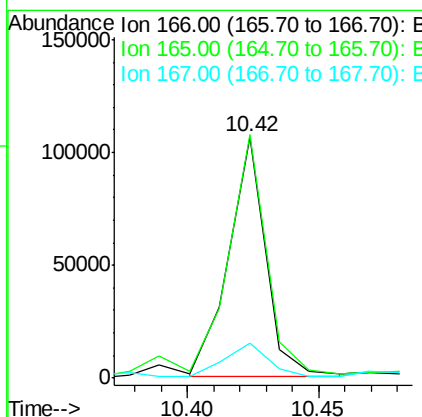
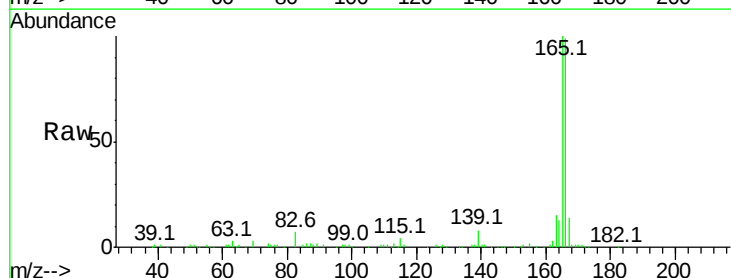
Manual Integrations
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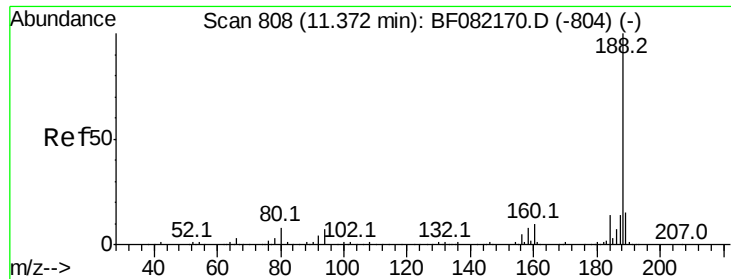
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#57
Fluorene
Concen: 9.44 ng m
RT: 10.42 min Scan# 725
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.8	78.3	117.5	
167	14.4	10.8	16.2	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 807

Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

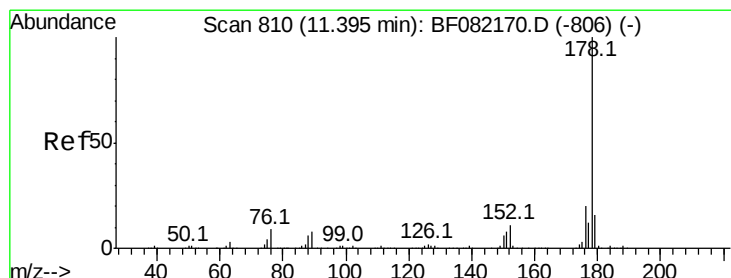
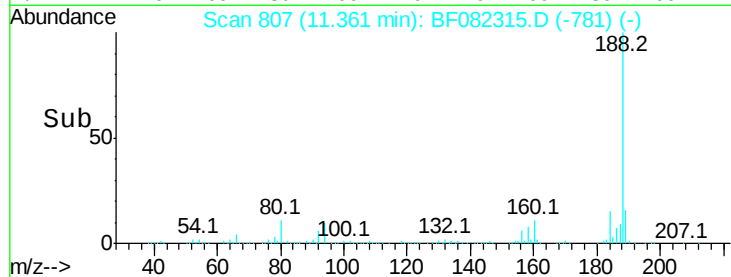
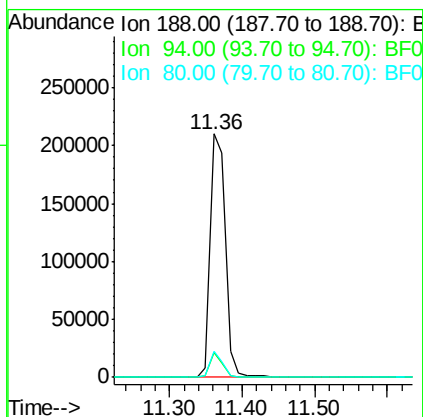
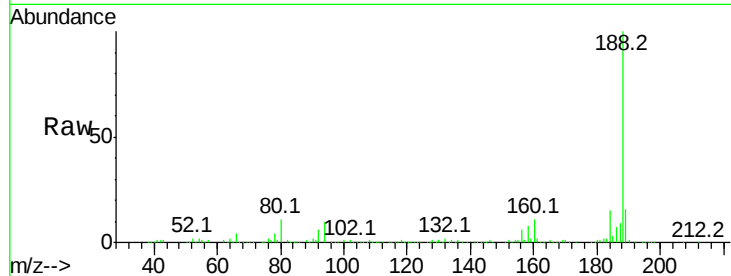
ClientSampled :

CS-13

Tot Ion:	188	Resp:	306810
Ion Ratio	Lower	Upper	
188	100		
94	10.0	5.8	8.6#
80	10.8	6.4	9.6#

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#70

Phenanthrene

Concen: 111.08 ng

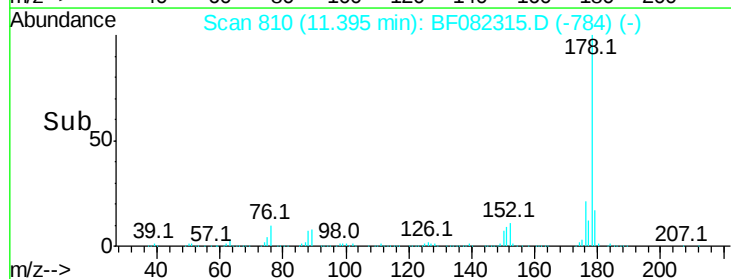
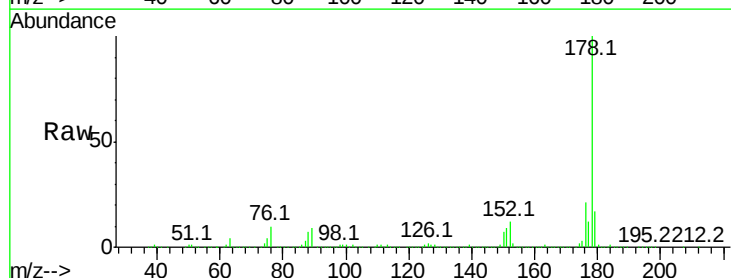
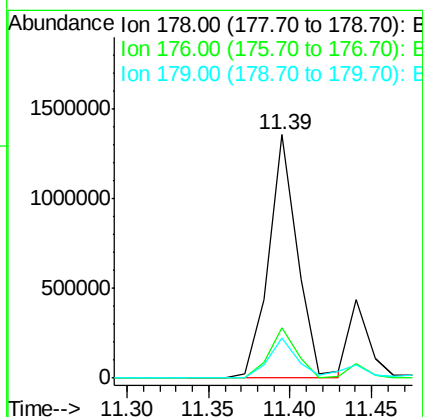
RT: 11.39 min Scan# 810

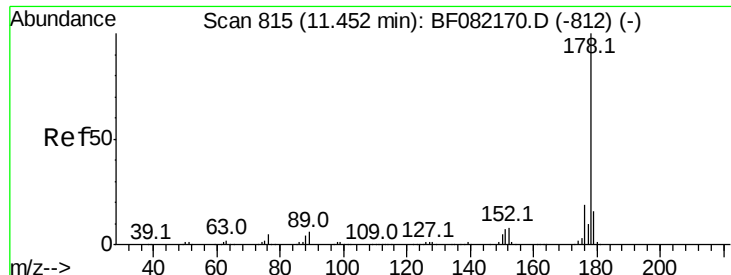
Delta R.T. 0.00 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Tgt Ion:	178	Resp:	1670476
Ion Ratio	Lower	Upper	
178	100		
176	20.7	16.0	24.0
179	16.6	12.6	19.0





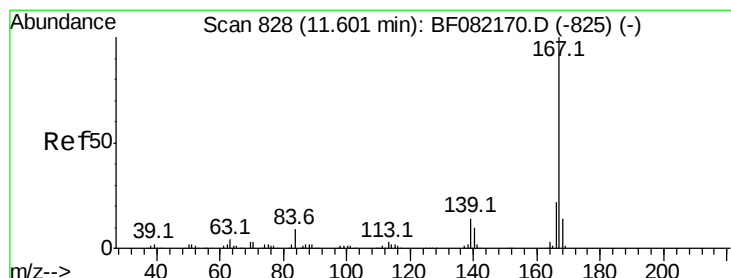
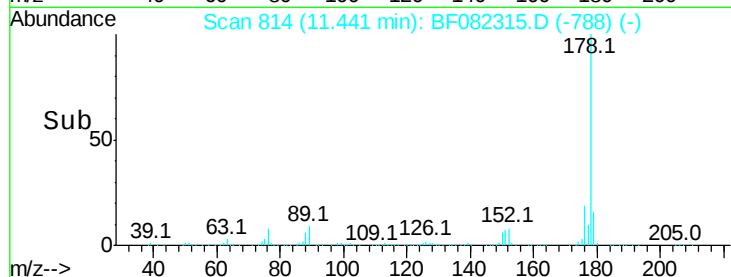
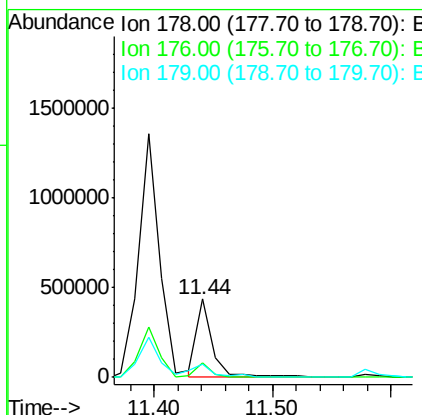
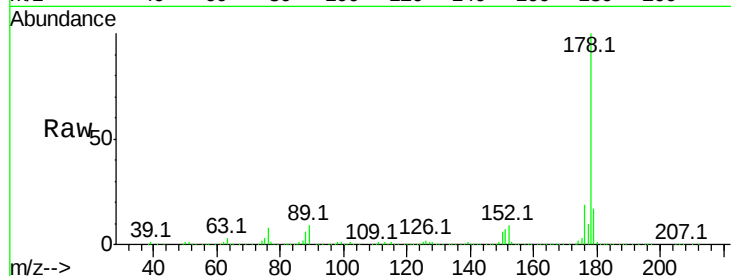
#71
 Anthracene
 Concen: 26.30 ng
 RT: 11.44 min Scan# 814
 Delta R.T. 0.00 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	16.5	12.5	18.7

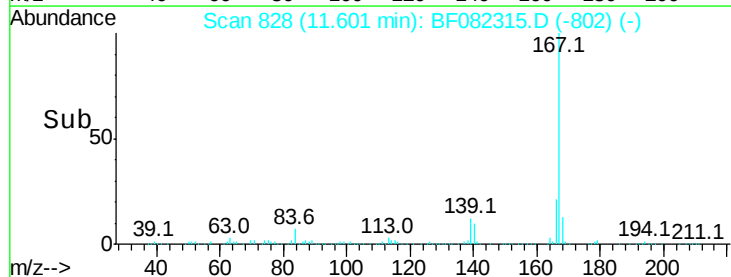
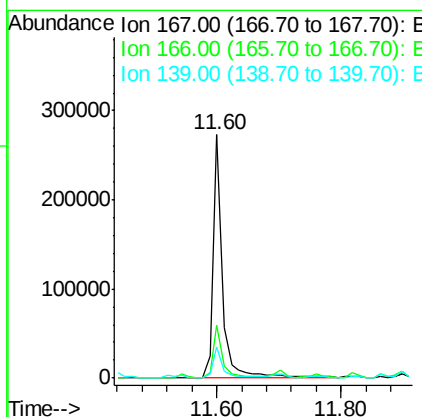
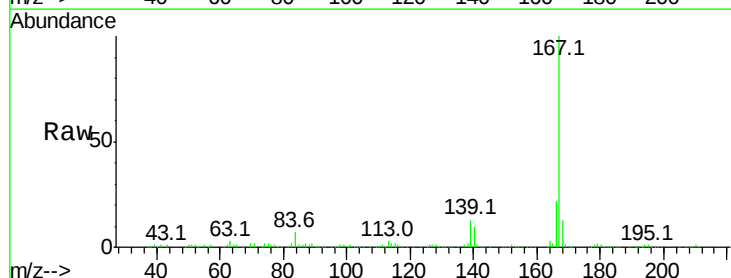
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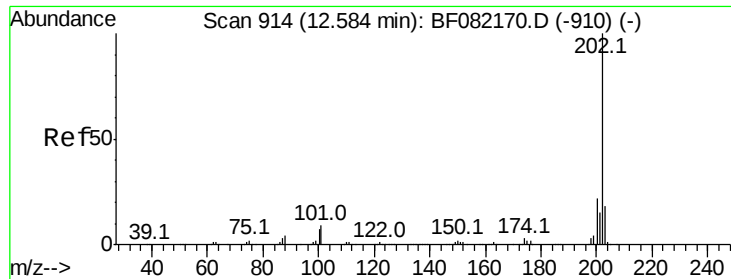
MMdadoda
 10/16/2015 5:19:56 PM



#72
 Carbazole
 Concen: 19.98 ng
 RT: 11.60 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.6	11.2	16.8





#74

Fluoranthene

Concen: 98.87 ng

RT: 12.60 min Scan# 915

Delta R.T. 0.01 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

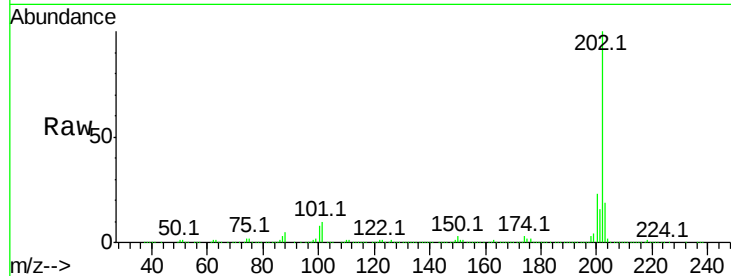
ClientSampleId :

CS-13

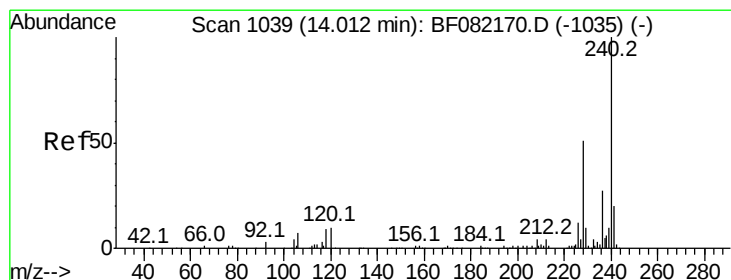
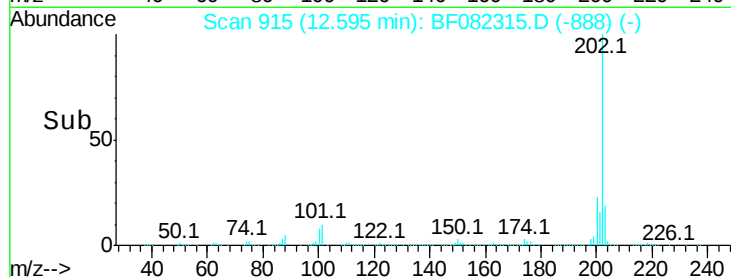
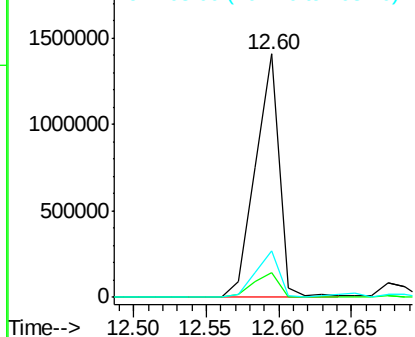
Tot Ion:	202	Resp:	1596962
Ion Ratio	Lower	Upper	
202	100		
101	10.2	0.0	29.3
203	18.9	0.0	37.8

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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: 20.00 ng

RT: 14.09 min Scan# 1046

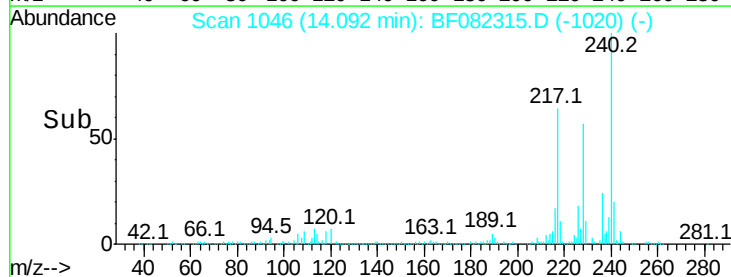
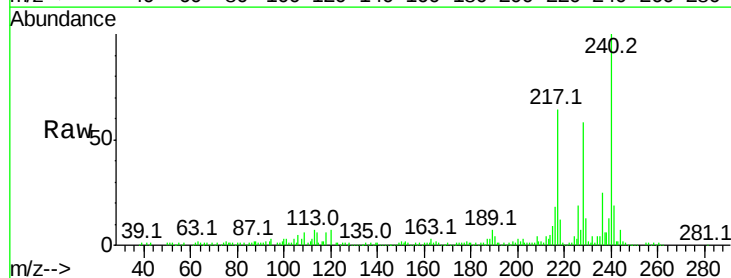
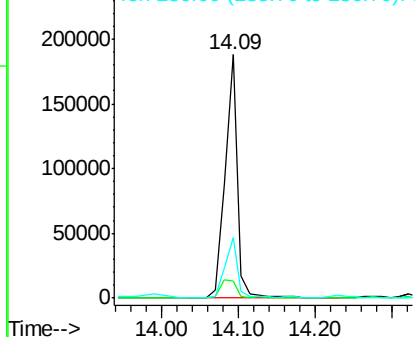
Delta R.T. 0.00 min

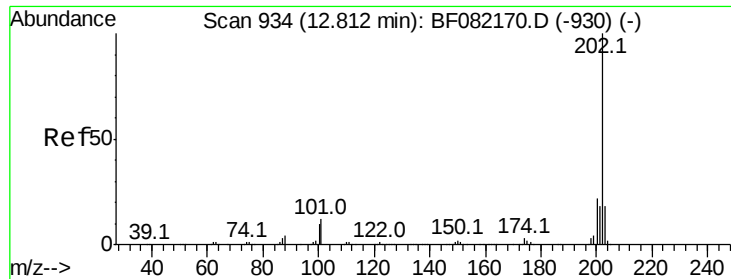
Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Tgt Ion:	240	Resp:	210539
Ion Ratio	Lower	Upper	
240	100		
120	7.3	8.1	12.1#
236	24.9	21.3	31.9

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: 91.31 ng

RT: 12.82 min Scan# 935

Delta R.T. 0.01 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Instrument :

BNA_F

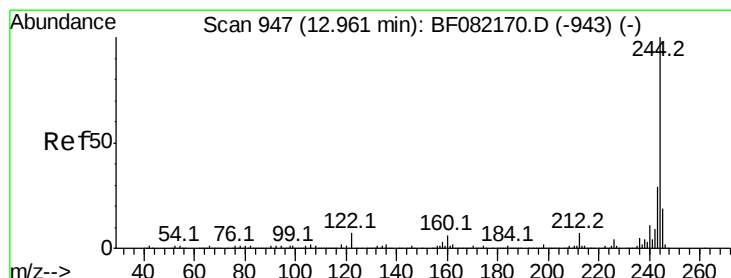
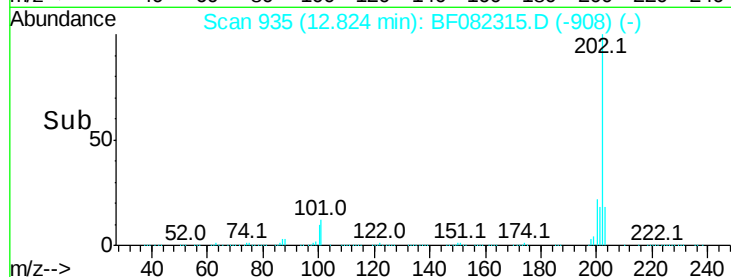
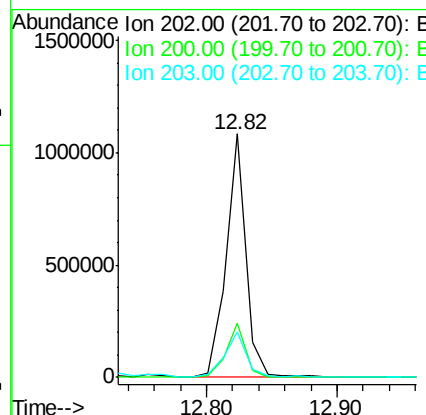
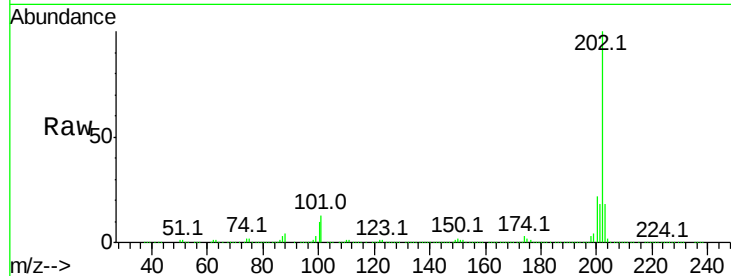
ClientSampled :

CS-13

Tot Ion:	202	Resp:	1140831
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.9	26.9
203	18.4	14.5	21.7

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#78

Terphenyl-d14

Concen: 5.17 ng

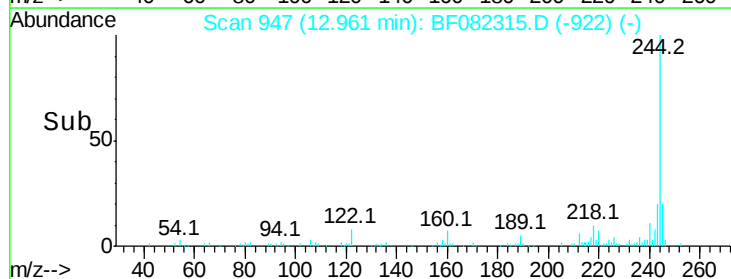
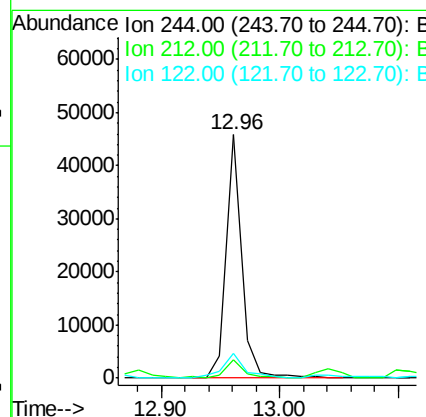
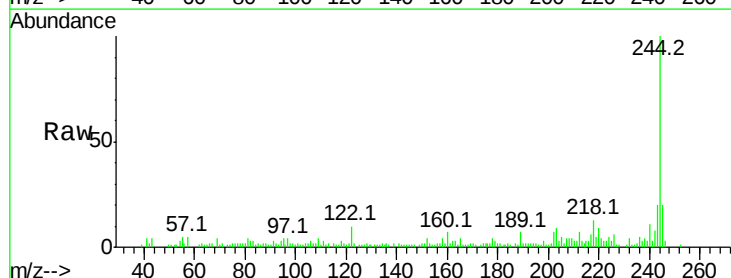
RT: 12.96 min Scan# 947

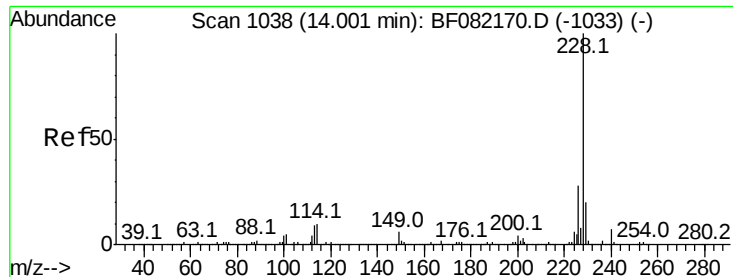
Delta R.T. -0.01 min

Lab File: BF082315.D

Acq: 15 Oct 2015 18:02

Tgt Ion:	244	Resp:	41101
Ion Ratio	Lower	Upper	
244	100		
212	7.3	5.8	8.6
122	10.0	5.9	8.9#





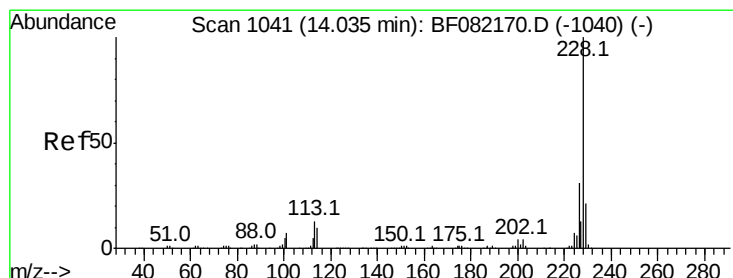
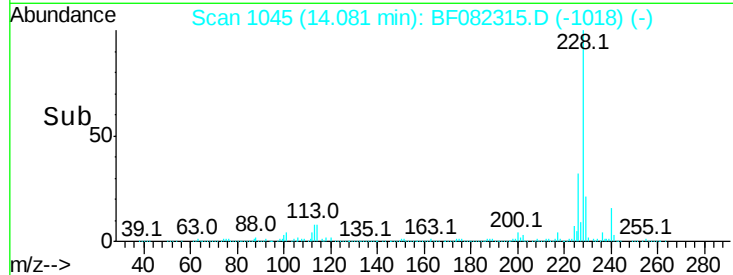
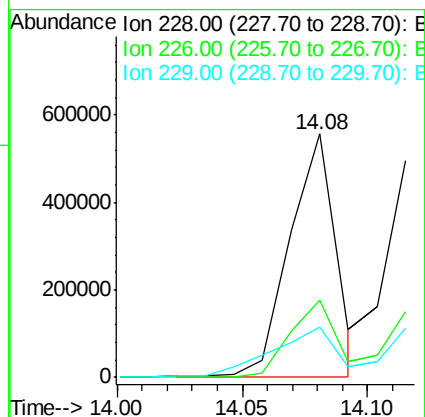
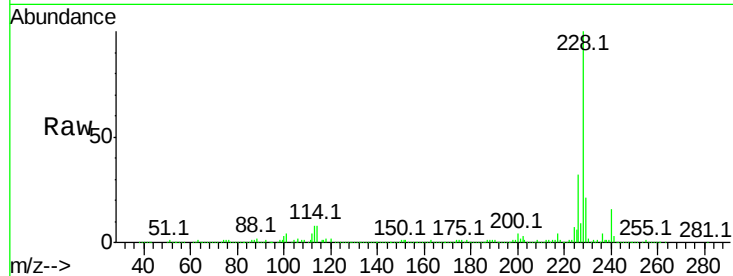
#80
Benzo(a)anthracene
Concen: 65.62 ng m
RT: 14.08 min Scan# 1045
Delta R.T. 0.01 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
228	100	718821		
226	31.8		22.3	33.5
229	20.7		16.2	24.2

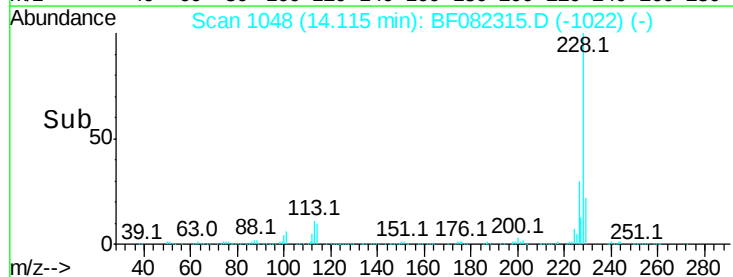
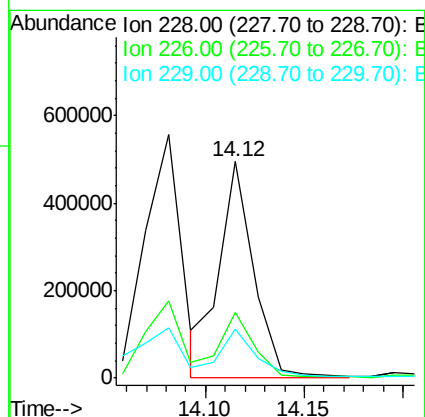
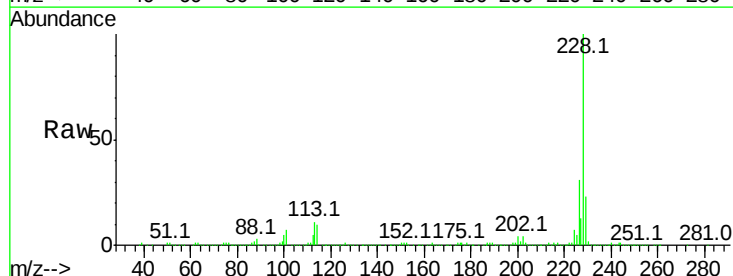
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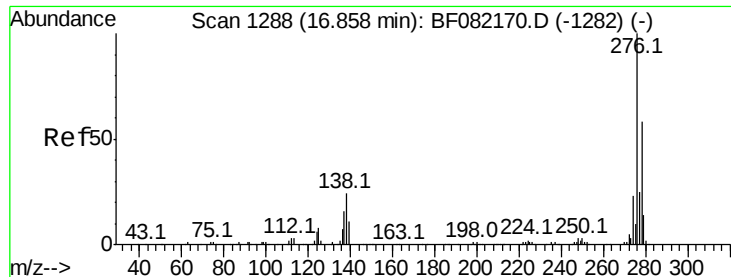
MMdadoda
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#82
Chrysene
Concen: 52.44 ng m
RT: 14.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	605276		
226	30.5		24.4	36.6
229	22.7		16.3	24.5





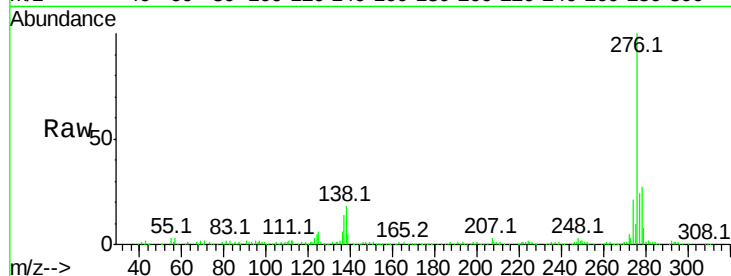
#85
Indeno(1,2,3-cd)pyrene
Concen: 31.09 ng
RT: 17.11 min Scan# 1310
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampleId :
CS-13

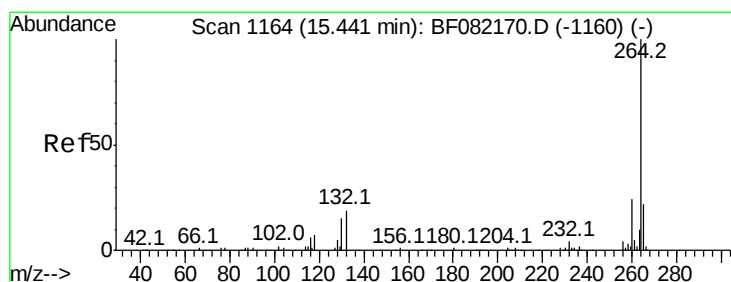
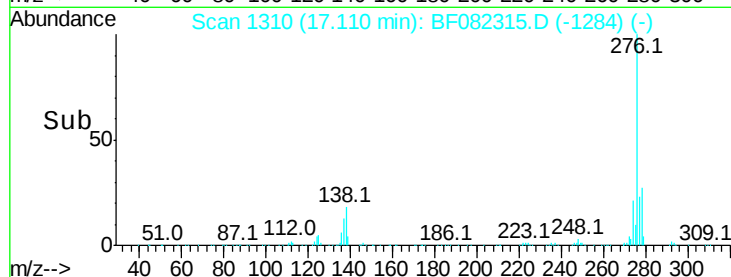
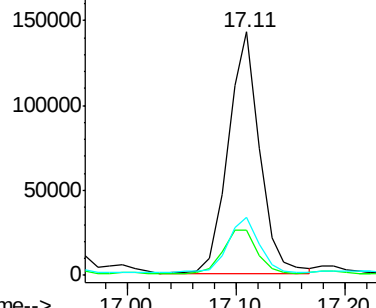
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.0	19.7	29.5
277	23.3	20.1	30.1

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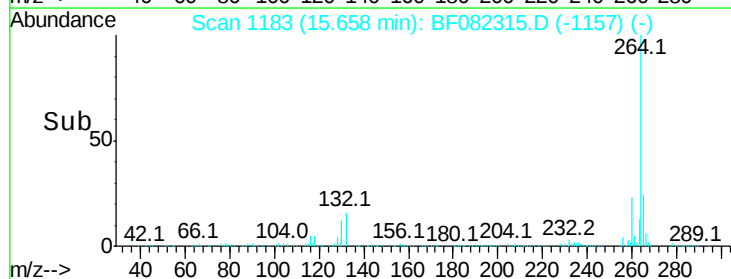
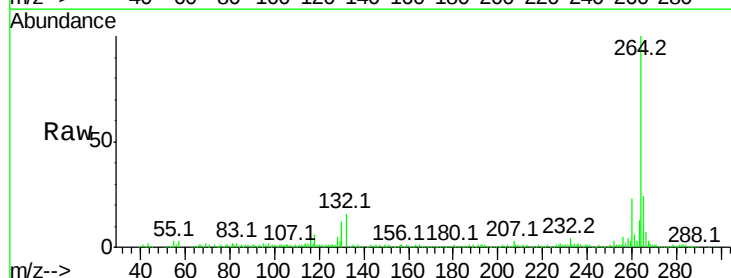
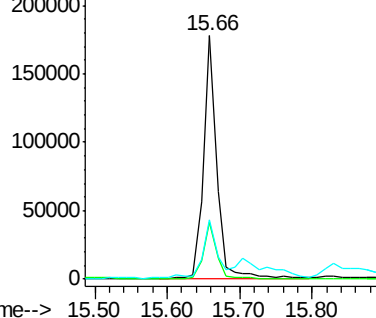
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

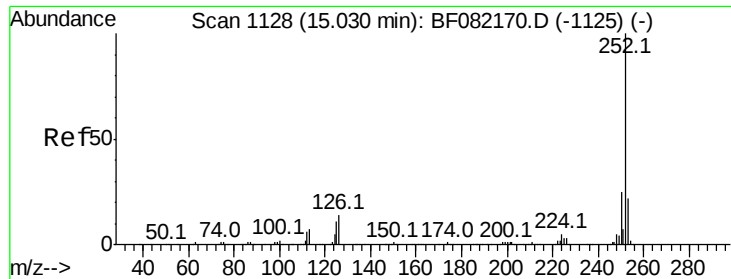


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.66 min Scan# 1183
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.6
265	24.2	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





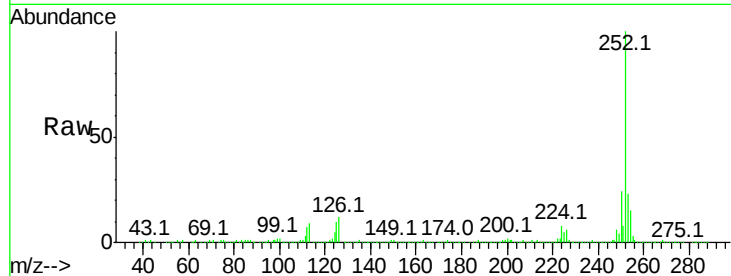
#87
Benzo(b)fluoranthene
Concen: 63.92 ng m
RT: 15.24 min Scan# 1146
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
252	100	895885		
253	22.9	18.0	27.0	
125	10.4	8.6	12.8	

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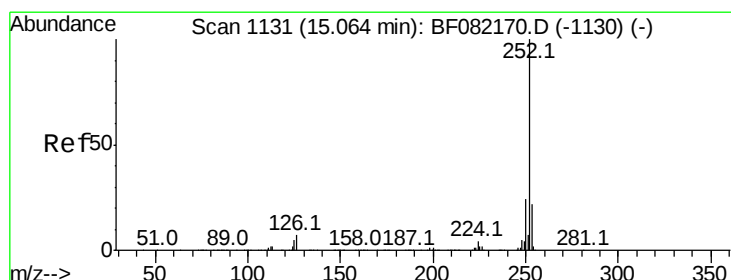
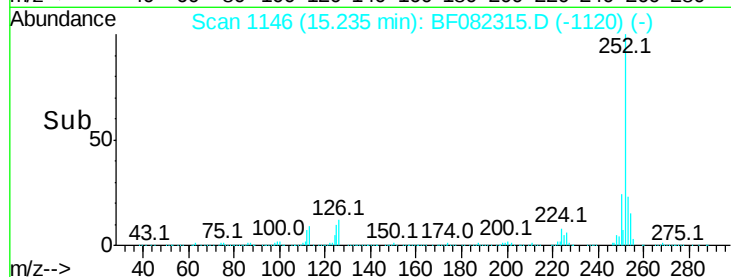
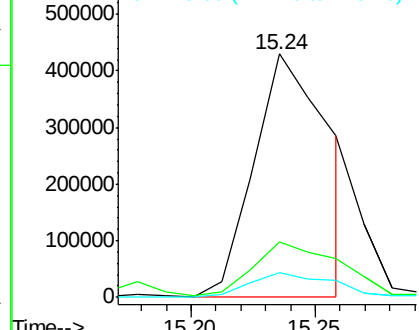


Abundance

Ion 252.00 (251.70 to 252.70): E

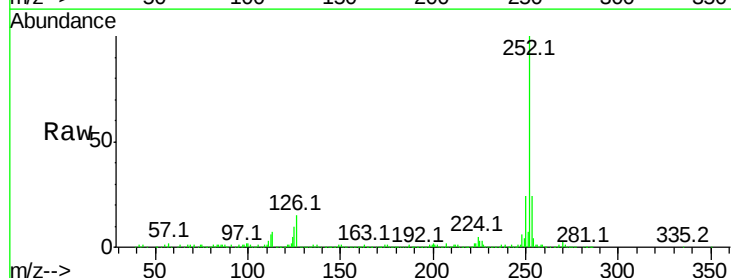
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88
Benzo(k)fluoranthene
Concen: 9.23 ng m
RT: 15.26 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	108709		
253	24.3	17.8	26.6	
125	10.4	6.7	10.1	

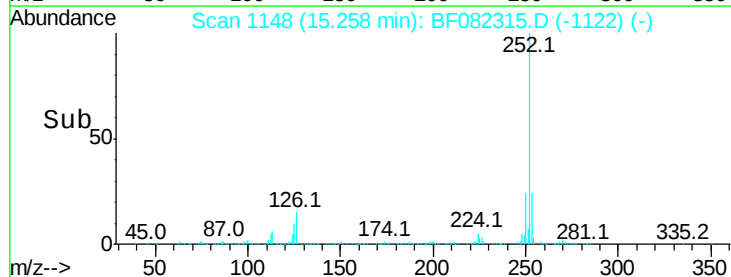
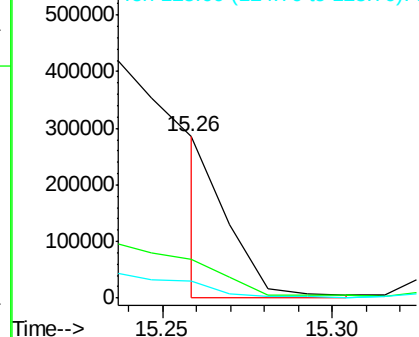


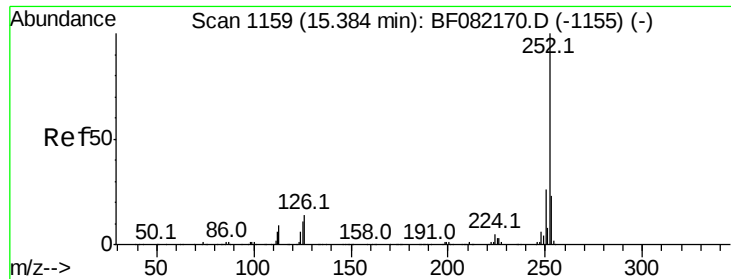
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





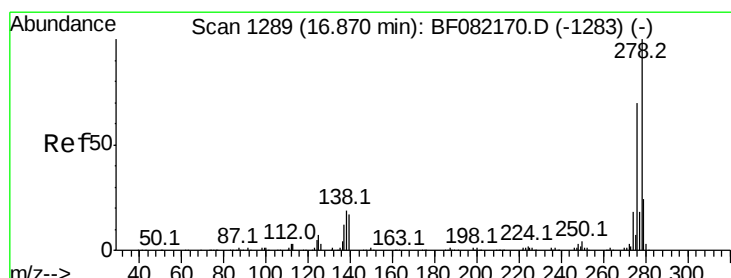
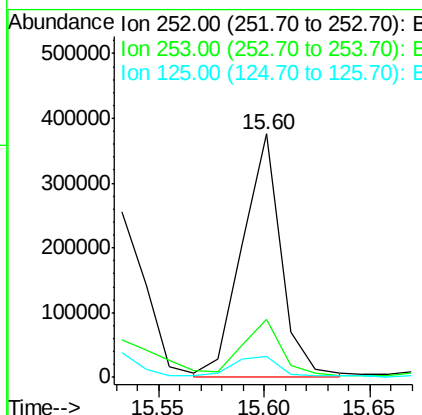
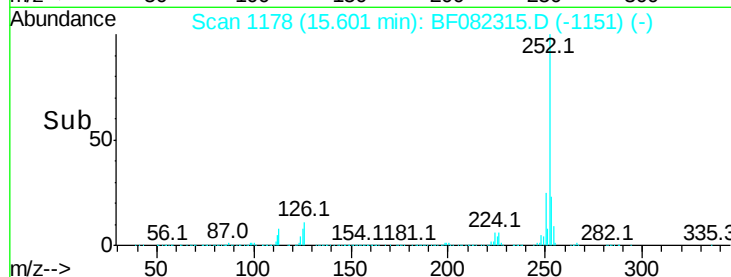
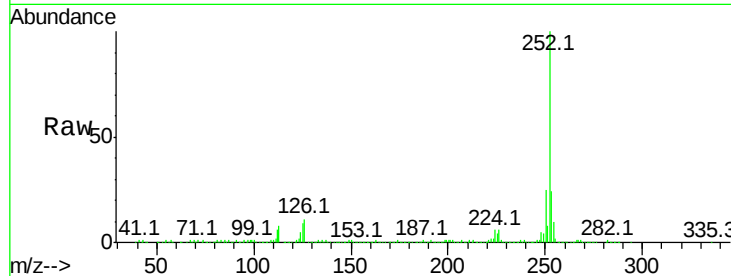
#89
Benzo(a)pyrene
Concen: 39.72 ng m
RT: 15.60 min Scan# 1178
Delta R.T. 0.01 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.6	18.2	27.2
125	8.8	8.9	13.3#

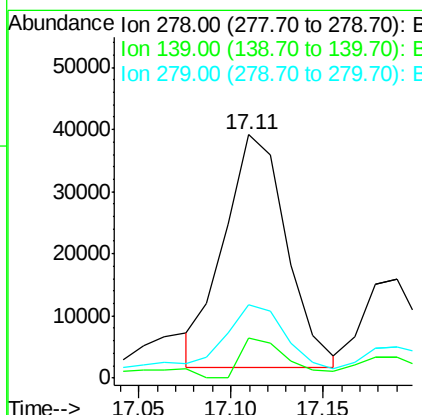
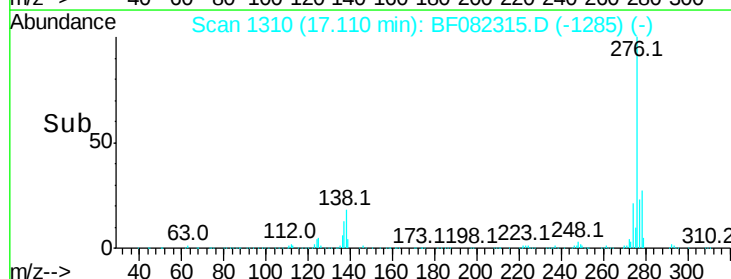
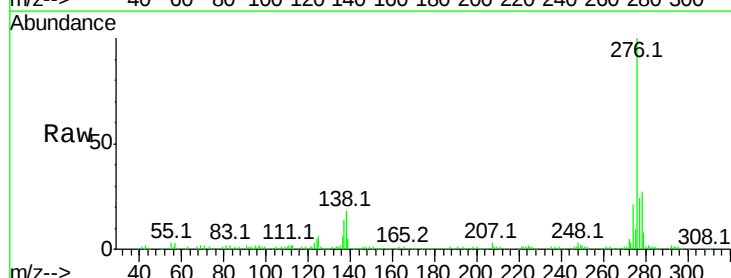
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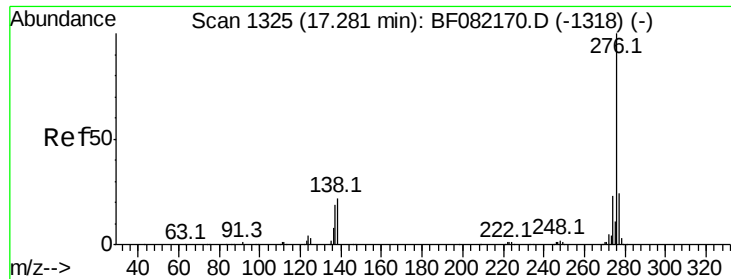
MMdadoda
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#90
Dibenzo(a,h)anthracene
Concen: 8.90 ng m
RT: 17.11 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF082315.D
Acq: 15 Oct 2015 18:02

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	16.7	13.3	19.9
279	30.0	18.9	28.3#





#91
 Benzo(a,h,i)perylene
 Concen: 23.38 ng
 RT: 17.54 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: BF082315.D
 Acq: 15 Oct 2015 18:02

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Tot Ion:	276	Resp:	224177
Ion Ratio	Lower	Upper	
276	100		
277	23.5	18.8	28.2
138	20.0	17.4	26.2

Manual Integrations
 APPROVED

MMdadoda
 10/16/2015 5:19:56 PM

