

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122815\
 Data File : BF084159.D
 Acq On : 28 Dec 2015 16:54
 Operator : UM/SJ
 Sample : G4954-01DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3(0-2)5WDL

Manual Integrations
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 12/29/2015 4:53:34 PM

Quant Time: Dec 29 03:39:00 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 24 16:48:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	51413	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	225369	20.00	ng	-0.02
38) Acenaphthene-d10	9.81	164	94926	20.00	ng	-0.02
63) Phenanthrene-d10	11.30	188	157137	20.00	ng	-0.02
75) Chrysene-d12	13.95	240	97933	20.00	ng	-0.01
86) Perylene-d12	15.37	264	108254	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	48069	15.85	ng	-0.01
7) Phenol-d6	6.44	99	62192	16.57	ng	-0.01
23) Nitrobenzene-d5	7.34	82	39981	10.38	ng	-0.02
41) 2,4,6-Tribromophenol	10.61	330	12531	12.38	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	71577	10.32	ng	-0.02
78) Terphenyl-d14	12.89	244	38382	7.09	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.09	128	189722	15.82	ng	99
37) 2-Methylnaphthalene	8.78	142	30831	4.11	ng	99
51) Acenaphthene	9.85	154	45416	7.29	ng	98
54) Dibenzofuran	10.03	168	58999	6.89	ng	98
57) Fluorene	10.36	166	65768	9.04	ng	97
70) Phenanthrene	11.33	178	394471	42.35	ng	100
71) Anthracene	11.38	178	124257	12.76	ng	98
72) Carbazole	11.54	167	34069	4.11	ng	99
74) Fluoranthene	12.52	202	309988	28.93	ng	94
77) Pyrene	12.75	202	236052	27.94	ng	98
80) Benzo(a)anthracene	13.94	228	95581m	15.87	ng	
82) Chrysene	13.97	228	80702m	14.53	ng	
85) Indeno(1,2,3-cd)pyrene	16.79	276	53123	9.55	ng	95
87) Benzo(b)fluoranthene	14.97	252	111513m	13.87	ng	
88) Benzo(k)fluoranthene	15.00	252	30734m	5.64	ng	
89) Benzo(a)pyrene	15.32	252	85484	12.91	ng	98
90) Dibenzo(a,h)anthracene	16.79	278	13587m	2.10	ng	
91) Benzo(g,h,i)perylene	17.21	276	55787	8.46	ng	97

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

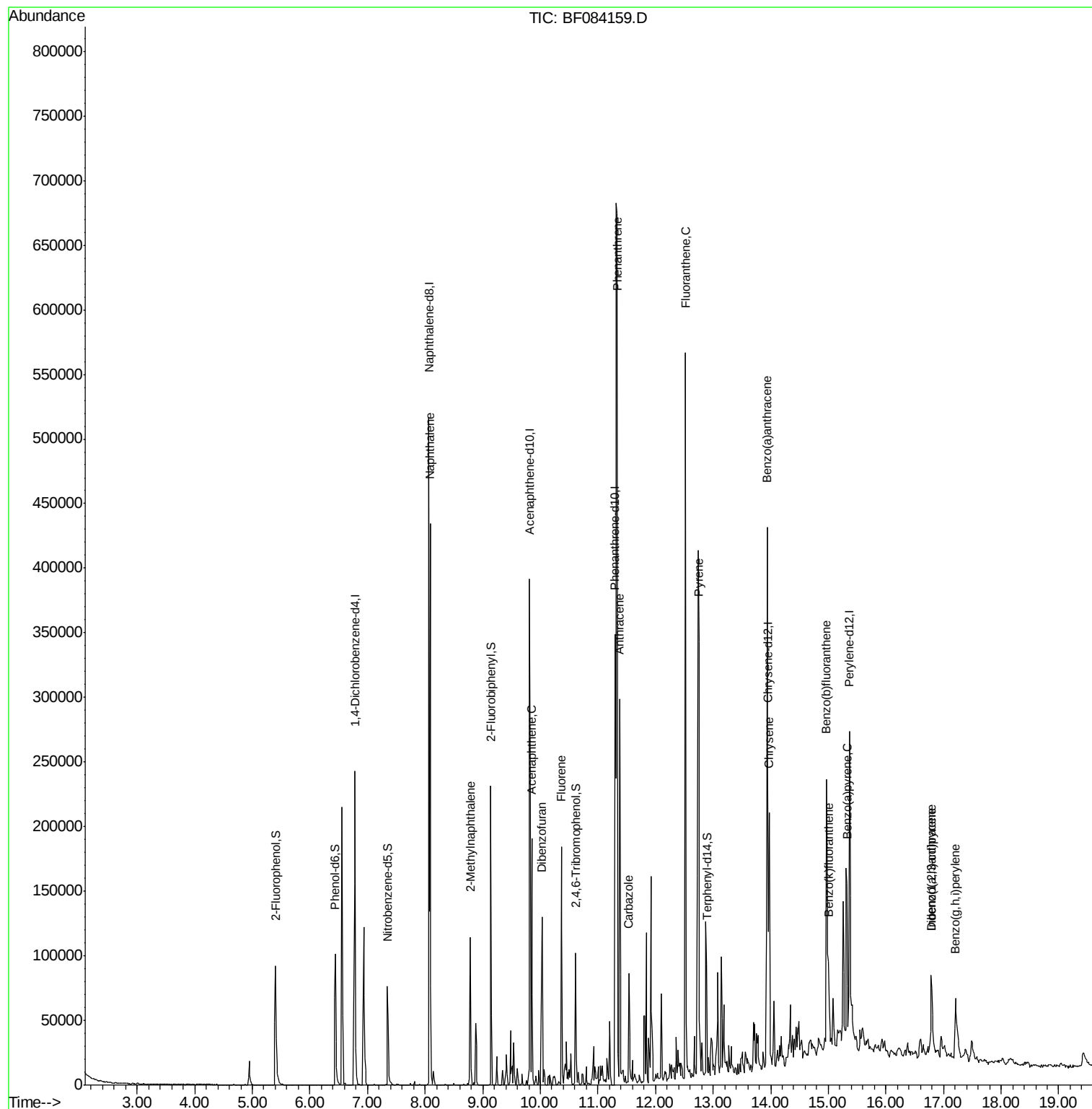
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122815\
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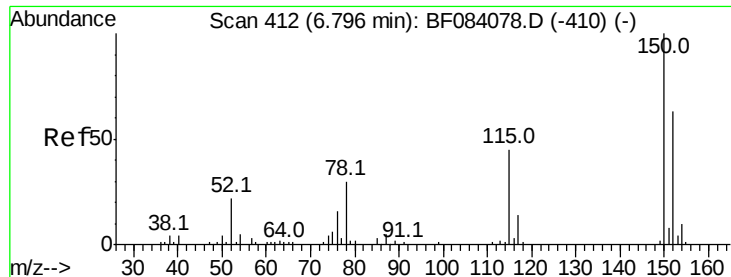
Instrument :
BNA_F
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SP-3(0-2)5WDL

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Quant Time: Dec 29 03:39:00 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122415.M
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QLast Update : Thu Dec 24 16:48:39 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 411

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

ClientSampleId :

SP-3(0-2)5WDL

Tot Ion:152 Resp: 51413

Ion Ratio Lower Upper

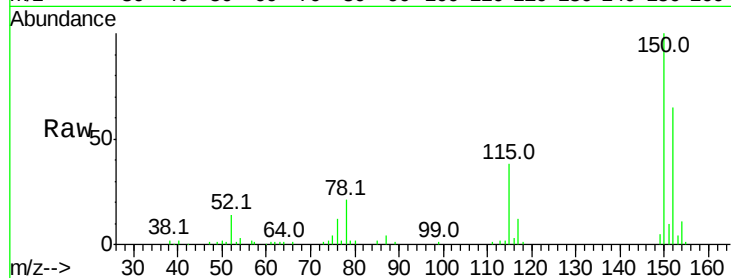
152 100

150 153.7 123.0 184.4

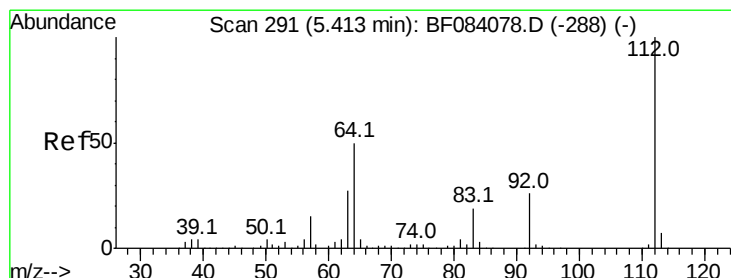
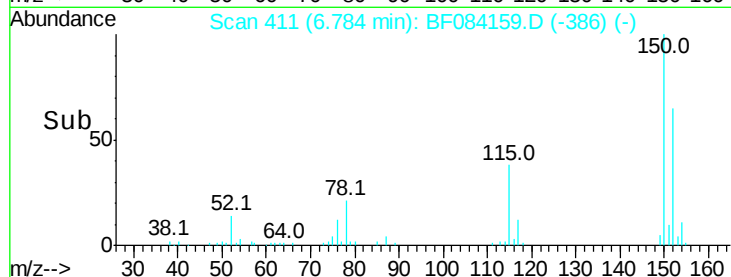
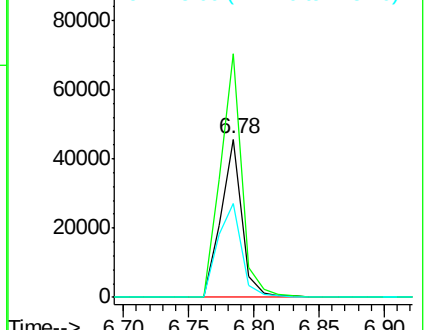
115 59.1 51.4 77.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 15.85 ng

RT: 5.40 min Scan# 290

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

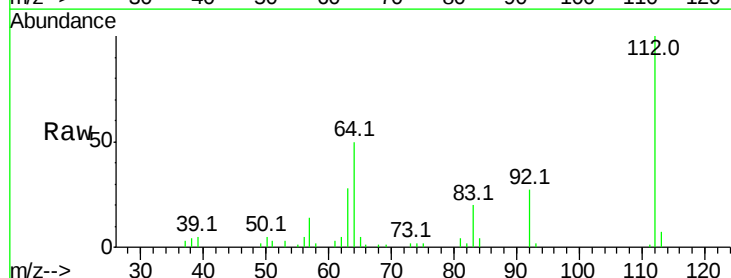
Tgt Ion:112 Resp: 48069

Ion Ratio Lower Upper

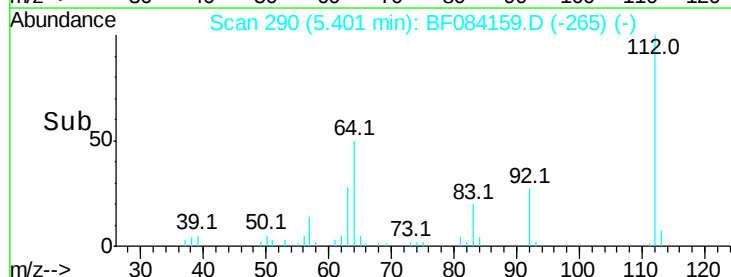
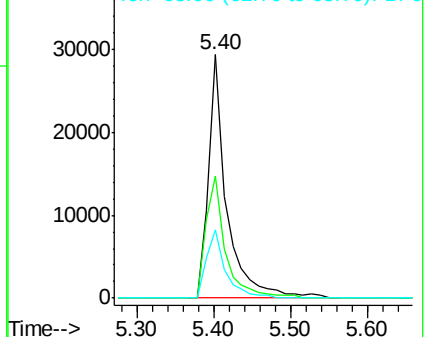
112 100

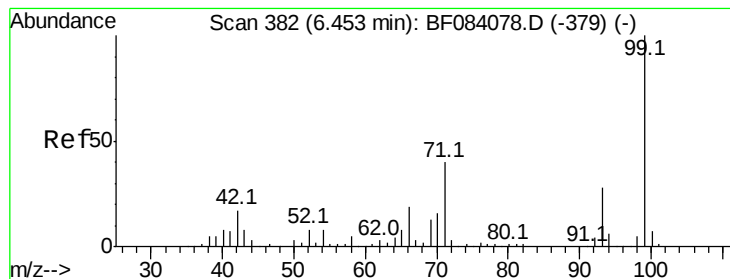
64 49.9 36.6 55.0

63 28.2 19.4 29.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 16.57 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

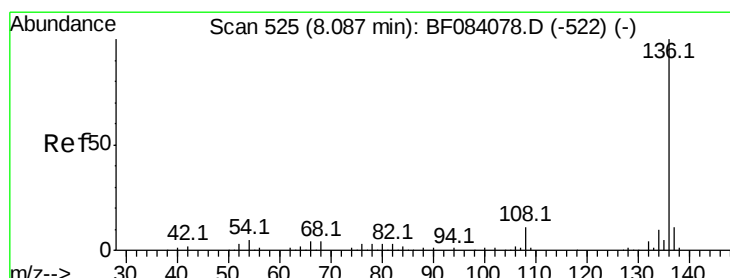
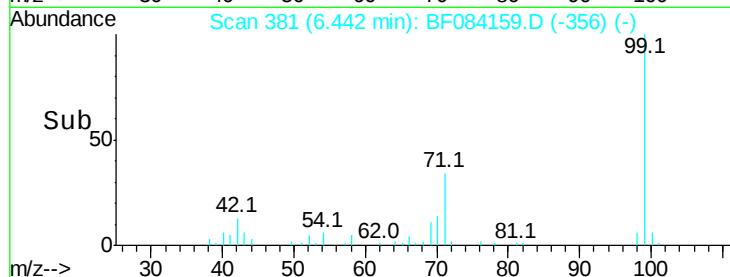
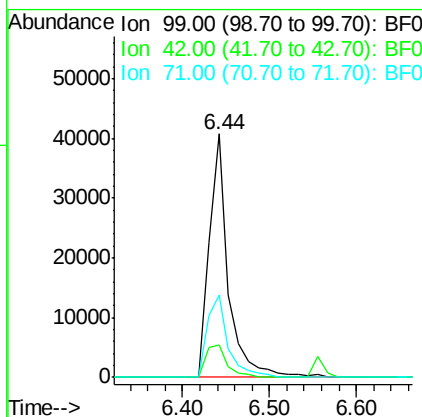
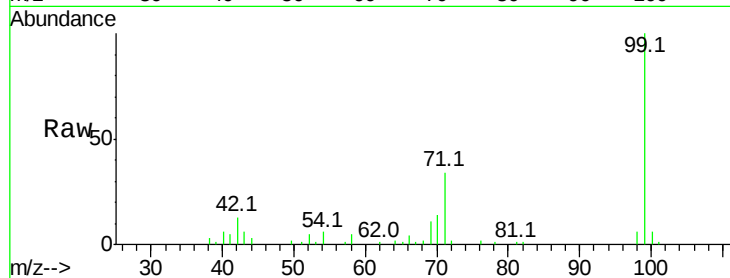
ClientSampleId :

SP-3(0-2)5WDL

Tot Ion:	99	Resp:	62192
Ion Ratio	Lower	Upper	
99	100		
42	13.1	12.8	19.2
71	33.9	30.9	46.3

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#21

Naphthalene-d8

Concen: 20.00 ng

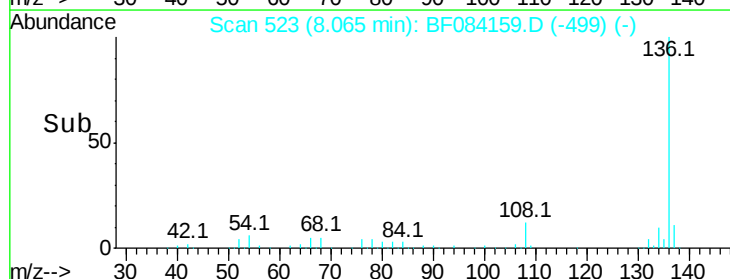
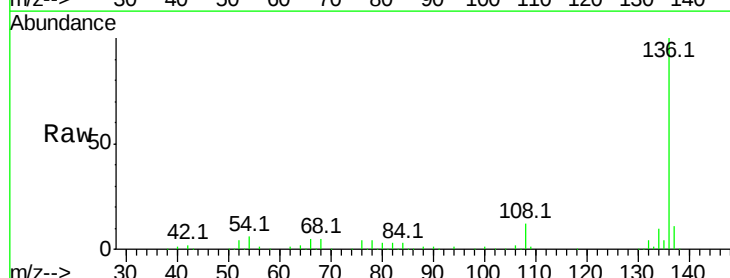
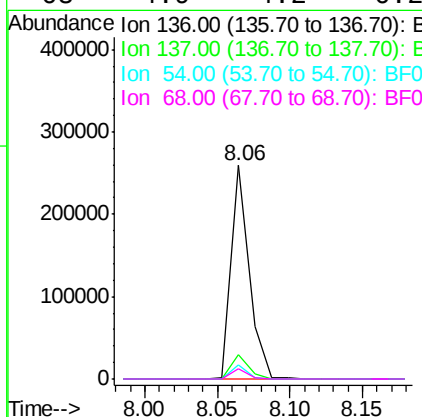
RT: 8.06 min Scan# 523

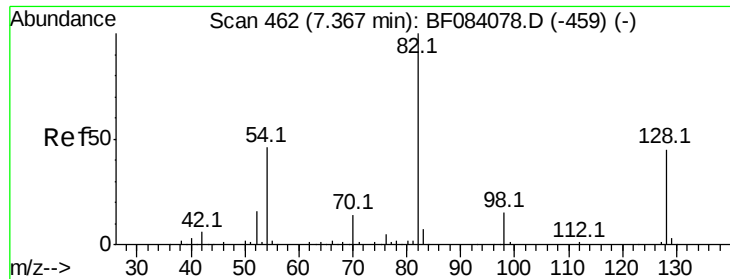
Delta R.T. -0.02 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Tgt Ion:	136	Resp:	225369
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.7	13.1
54	6.4	5.8	8.8
68	4.9	4.2	6.2





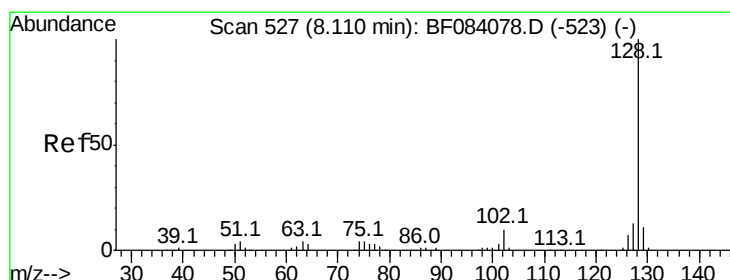
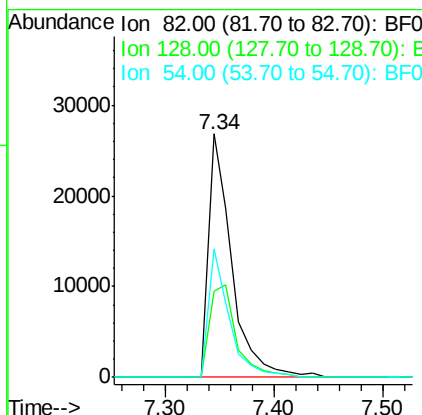
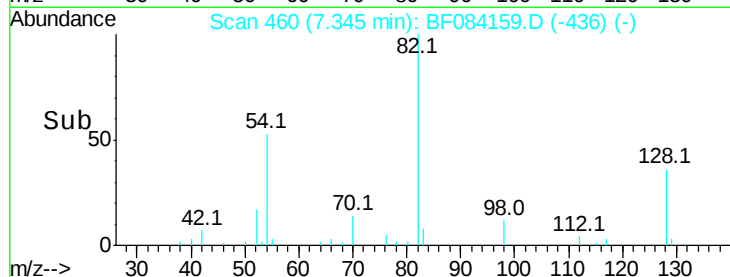
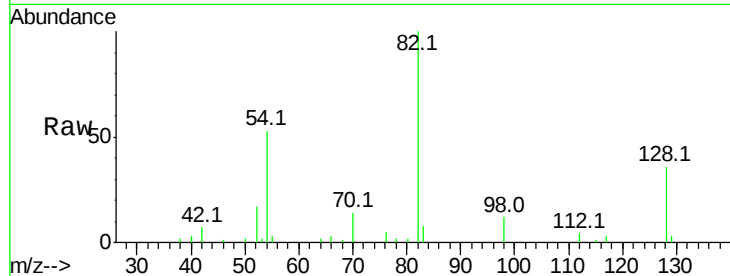
#23
Nitrobenzene-d5
Concen: 10.38 ng
RT: 7.34 min Scan# 460
Delta R.T. -0.02 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Instrument :
BNA_F
ClientSampleId :
SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.5	34.6	51.8
54	52.5	38.4	57.6

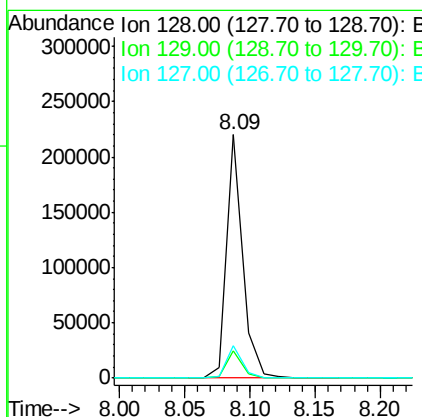
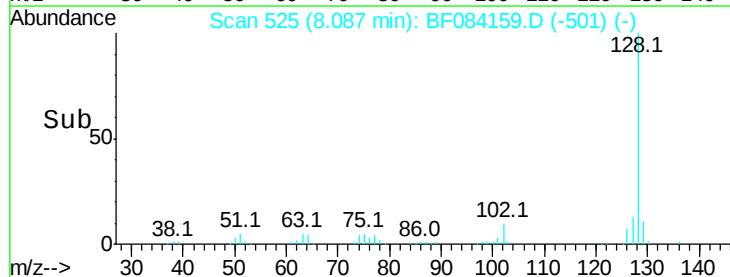
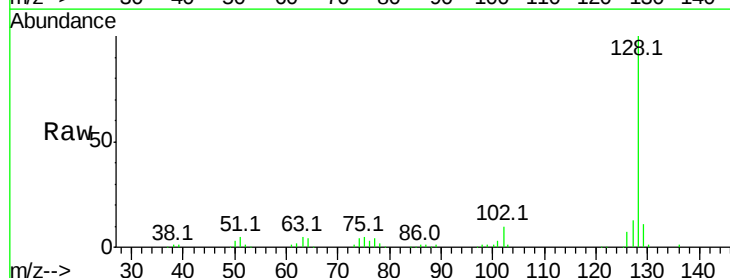
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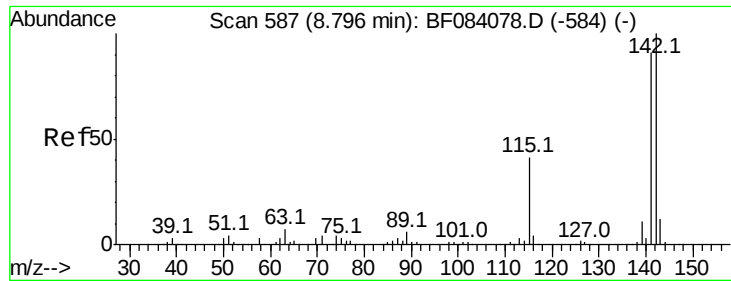
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#31
Naphthalene
Concen: 15.82 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.02 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.2	11.1	16.7





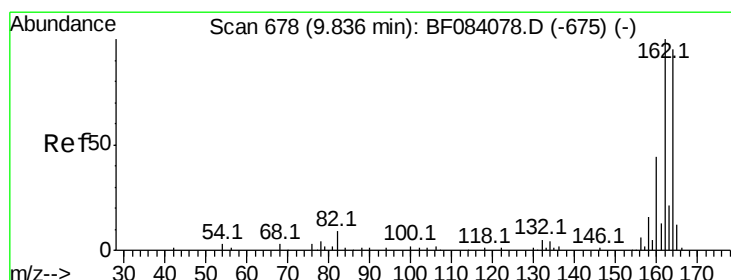
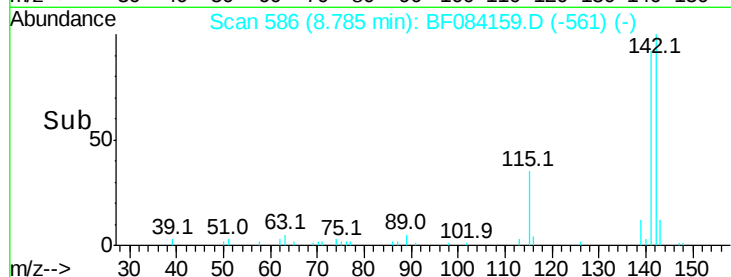
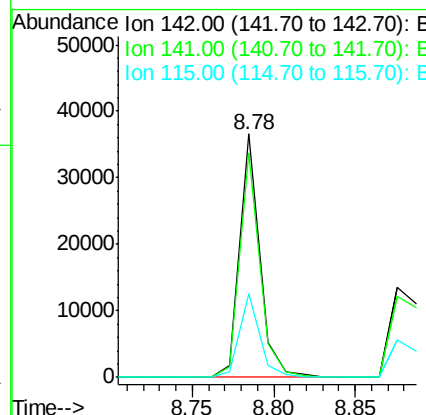
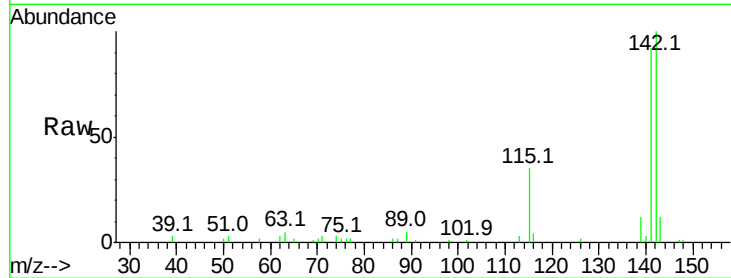
#37
2-Methylnaphthalene
Concen: 4.11 ng
RT: 8.78 min Scan# 586
Delta R.T. -0.01 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Instrument :
BNA_F
ClientSampleId :
SP-3(0-2)5WDL

Tot Ion:	142	Resp:	30831
Ion Ratio	Lower	Upper	
142	100		
141	92.2	72.4	108.6
115	34.6	27.9	41.9

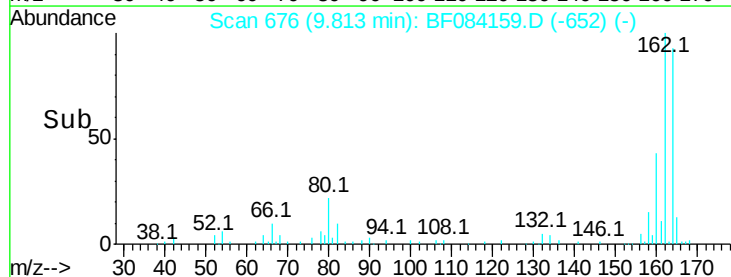
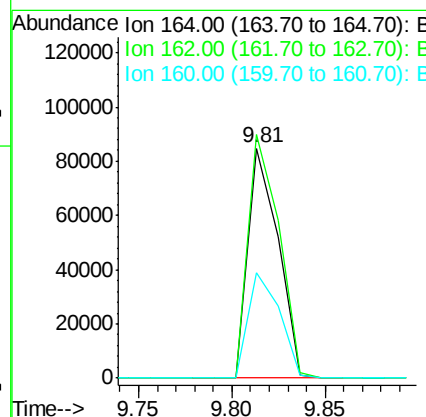
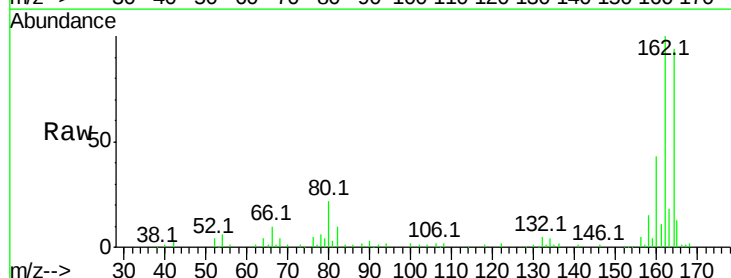
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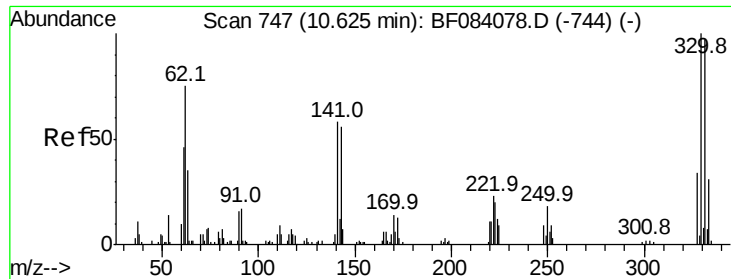
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.02 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Tgt Ion:	164	Resp:	94926
Ion Ratio	Lower	Upper	
164	100		
162	106.0	85.1	127.7
160	45.8	37.5	56.3





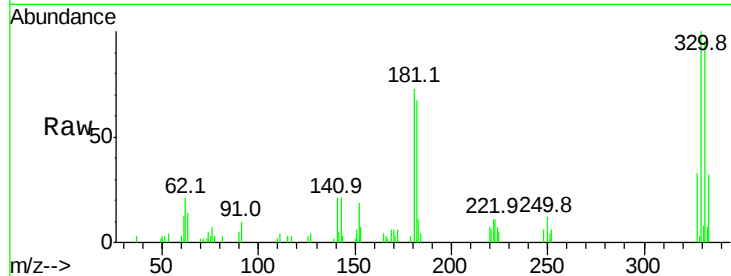
#41
 2,4,6-Tribromophenol
 Concen: 12.38 ng
 RT: 10.61 min Scan# 746
 Delta R.T. -0.01 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Instrument :
 BNA_F
 ClientSampleId :
 SP-3(0-2)5WDL

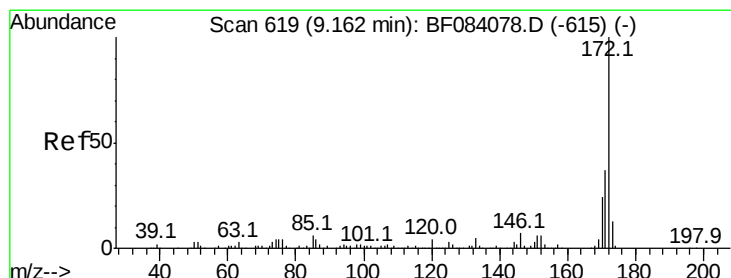
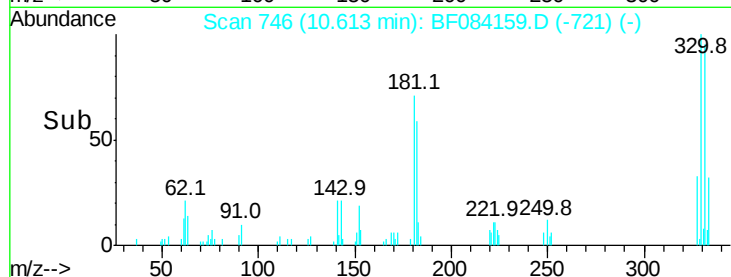
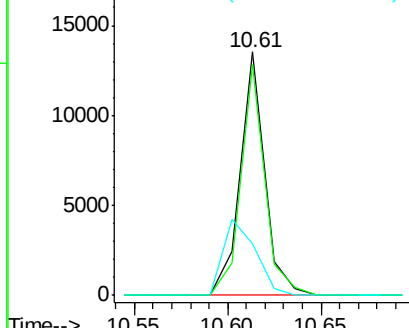
Tot Ion	Ratio	Resp	Lower	Upper
330	100	12531		
332	92.2		76.6	114.8
141	40.9		27.8	41.6

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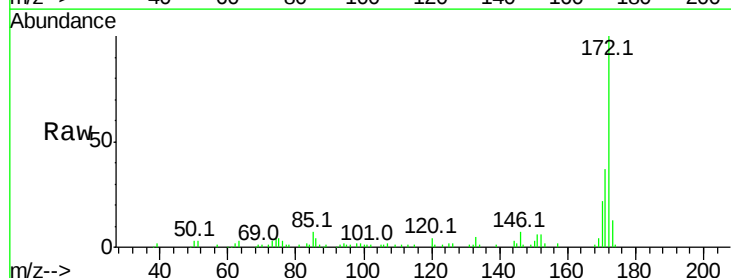


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

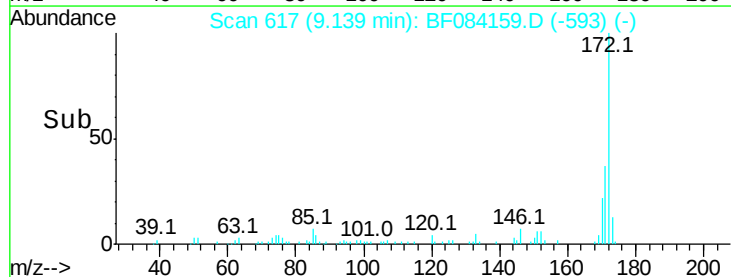
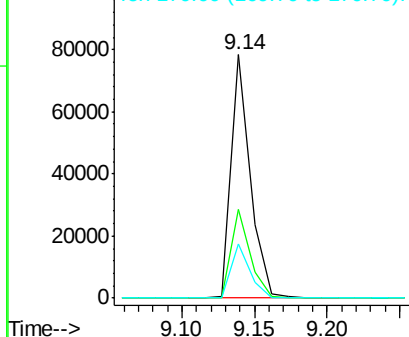


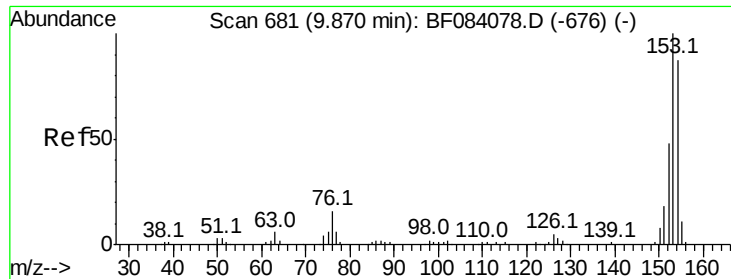
#44
 2-Fluorobiphenyl
 Concen: 10.32 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.02 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	71577		
171	36.6		28.9	43.3
170	22.5		18.6	27.8



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





#51

Acenaphthene

Concen: 7.29 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.02 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

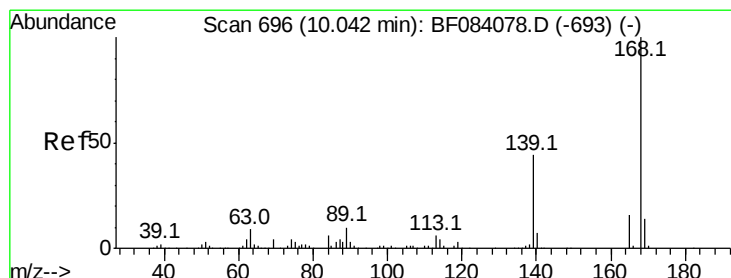
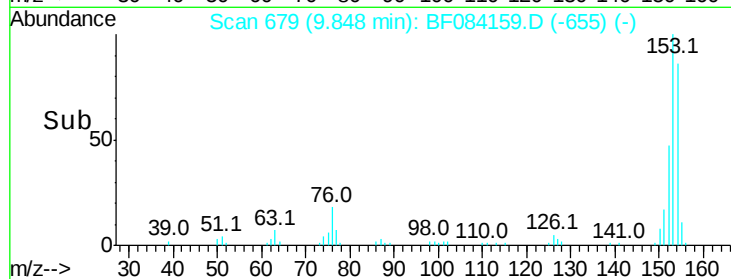
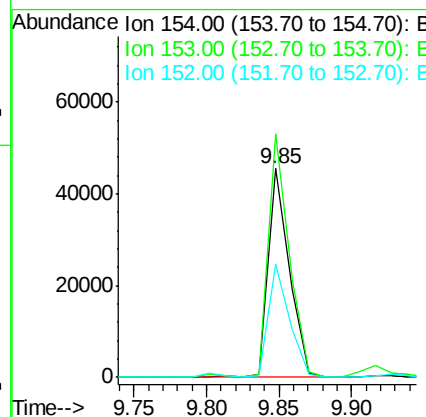
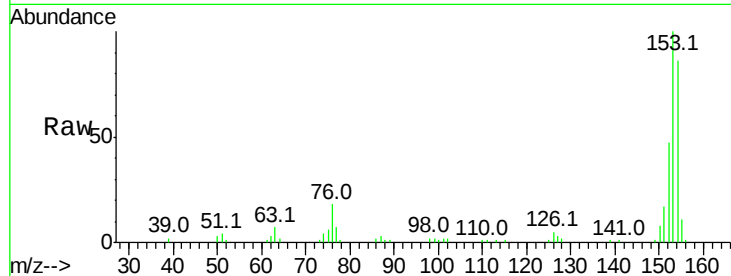
ClientSampleId :

SP-3(0-2)5WDL

Tot Ion:	154	Resp:	45416
Ion Ratio	Lower	Upper	
154	100		
153	116.6	91.5	137.3
152	54.2	43.0	64.6

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#54

Dibenzofuran

Concen: 6.89 ng

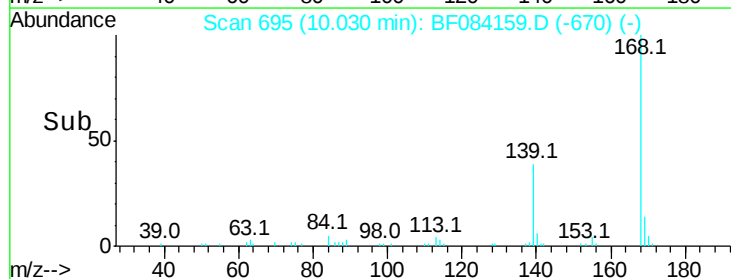
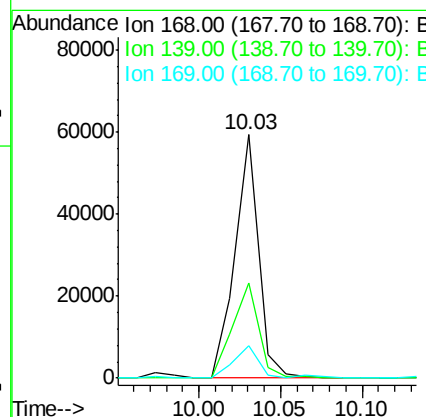
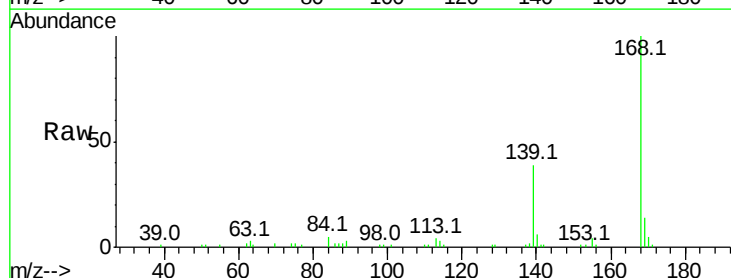
RT: 10.03 min Scan# 695

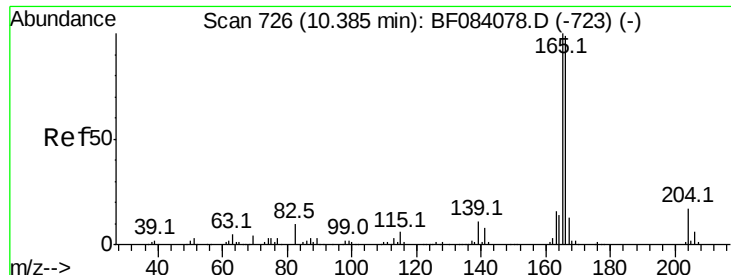
Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Tgt Ion:	168	Resp:	58999
Ion Ratio	Lower	Upper	
168	100		
139	39.3	30.5	45.7
169	13.5	10.4	15.6





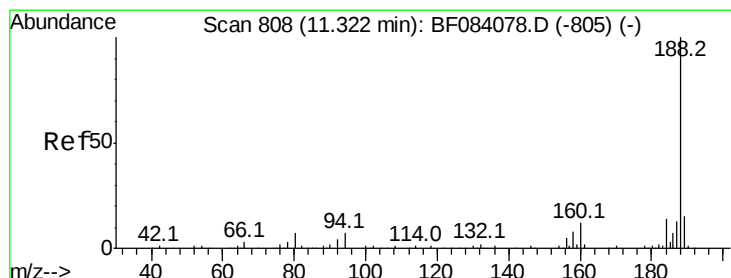
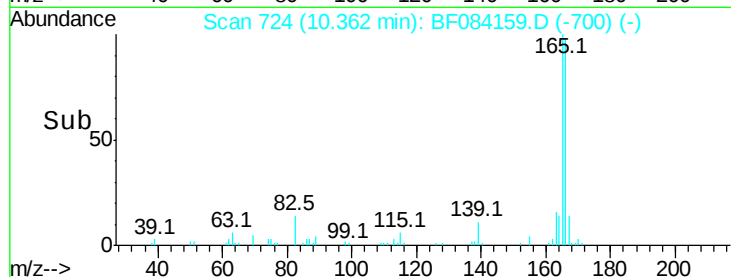
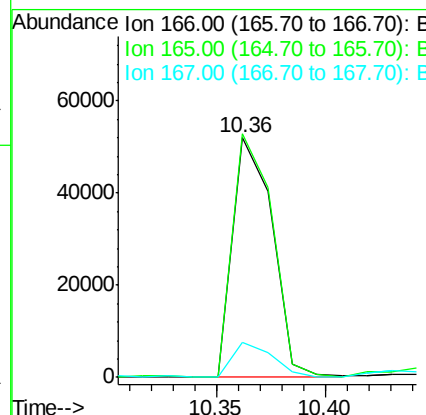
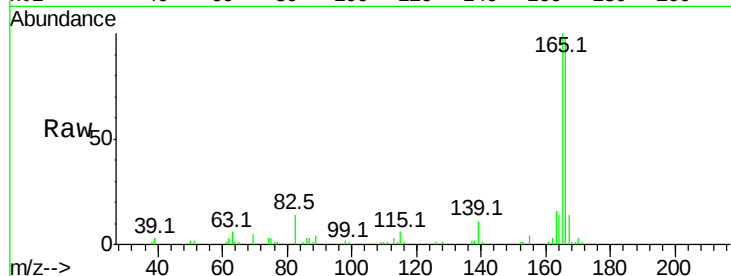
#57
Fluorene
 Concen: 9.04 ng
 RT: 10.36 min Scan# 724
 Delta R.T. -0.02 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Instrument :
 BNA_F
 ClientSampleId :
 SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.8	79.1	118.7
167	14.5	10.4	15.6

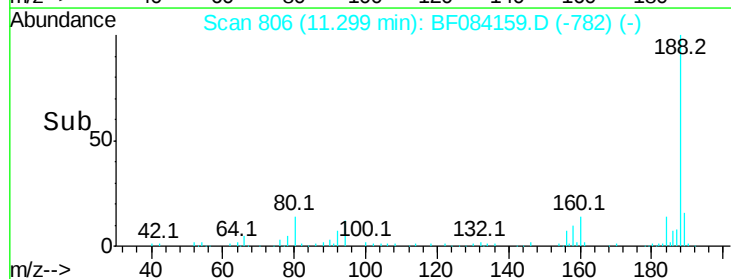
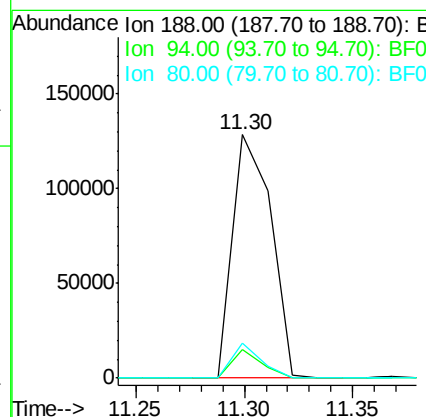
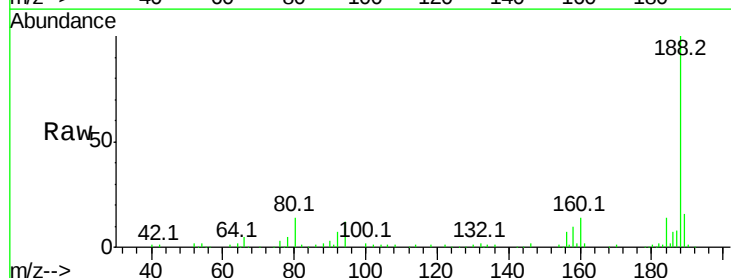
Manual Integrations
 APPROVED

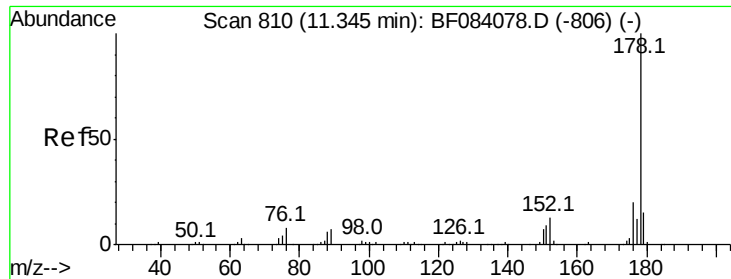
Sohil
 12/29/2015 4:53:34 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.30 min Scan# 806
 Delta R.T. -0.02 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.0	9.0	13.4
80	14.3	9.6	14.4





#70

Phenanthrene

Concen: 42.35 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

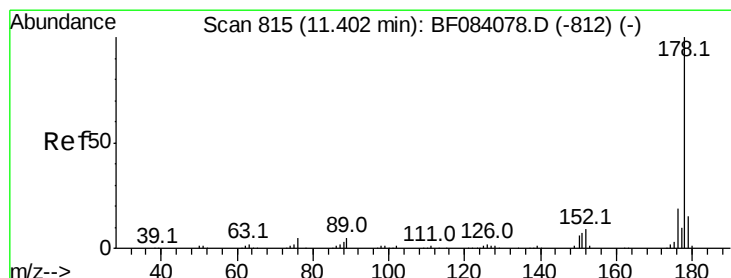
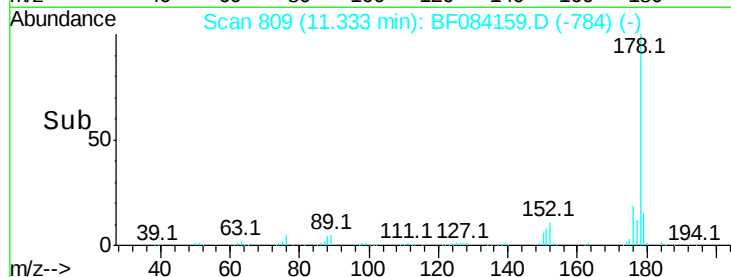
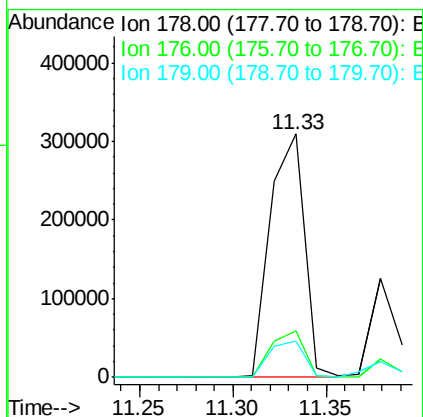
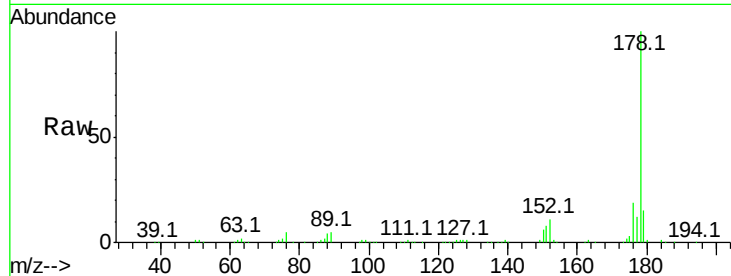
ClientSampleId :

SP-3(0-2)5WDL

Tot Ion:	178	Resp:	394471
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.3	22.9
179	15.1	12.0	18.0

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12/29/2015 4:53:34 PM



#71

Anthracene

Concen: 12.76 ng

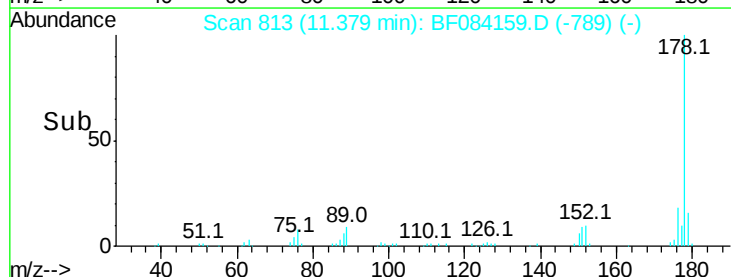
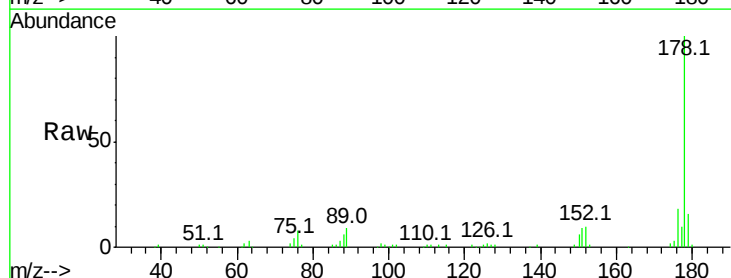
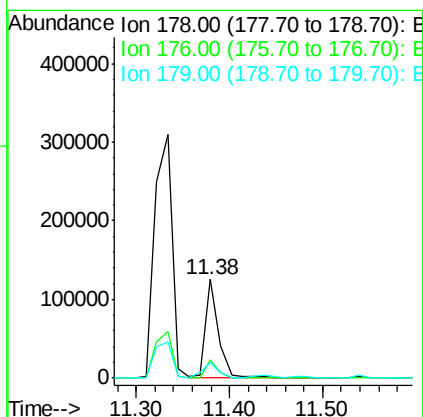
RT: 11.38 min Scan# 813

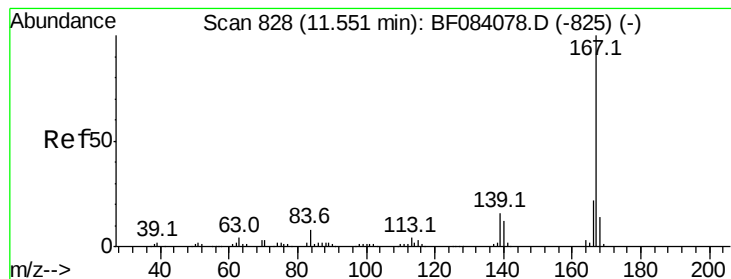
Delta R.T. -0.02 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Tgt Ion:	178	Resp:	124257
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.4	23.0
179	16.3	12.5	18.7





#72

Carbazole

Concen: 4.11 ng

RT: 11.54 min Scan# 827

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

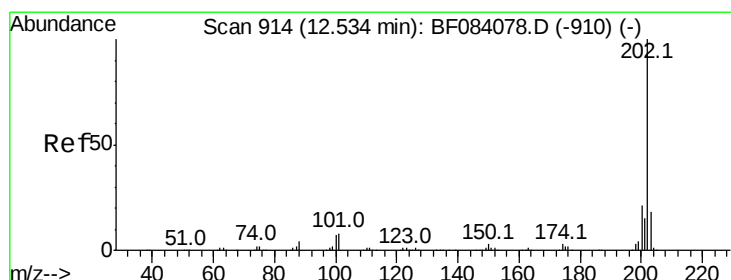
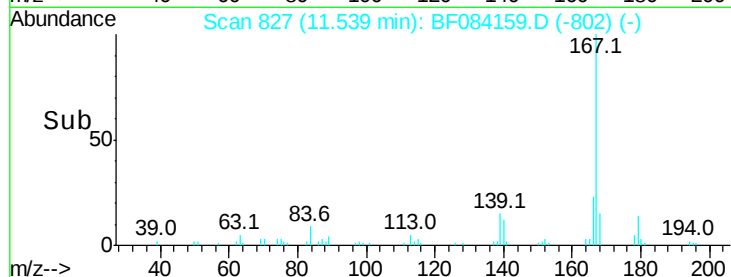
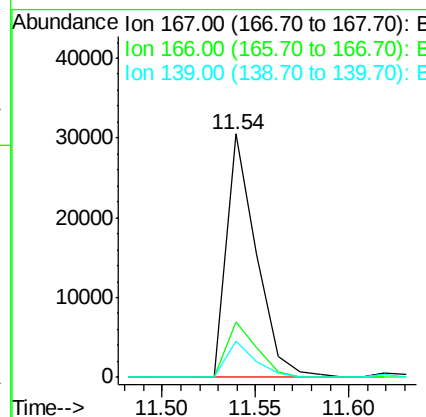
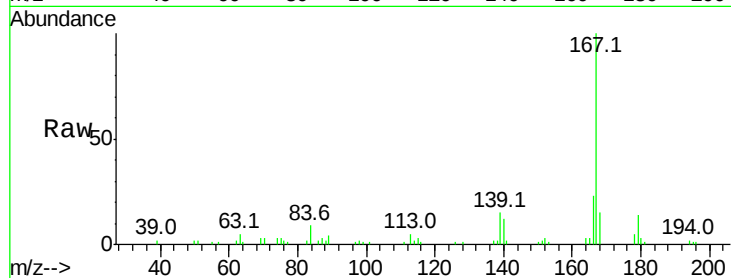
ClientSampleId :

SP-3(0-2)5WDL

Tot Ion:	167	Resp:	34069
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.6	26.4
139	15.0	11.8	17.8

Manual Integrations
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12/29/2015 4:53:34 PM



#74

Fluoranthene

Concen: 28.93 ng

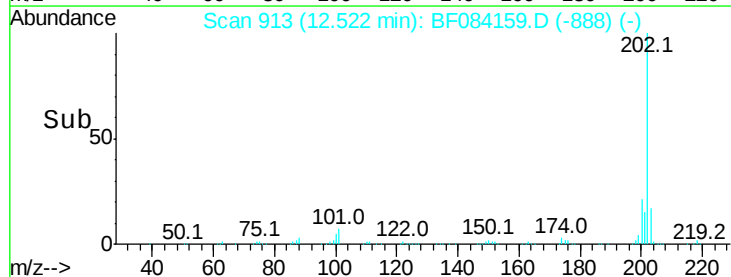
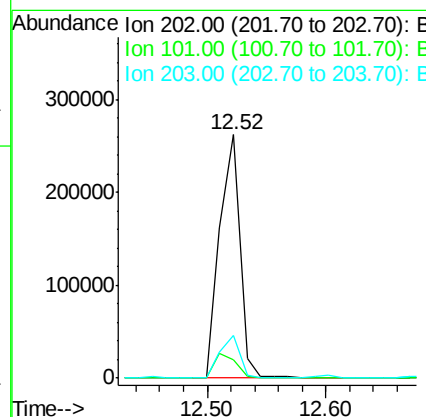
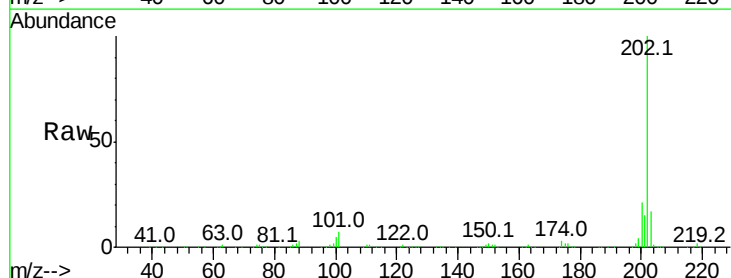
RT: 12.52 min Scan# 913

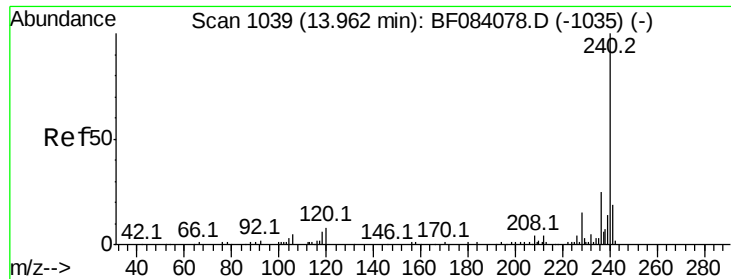
Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Tgt Ion:	202	Resp:	309988
Ion Ratio	Lower	Upper	
202	100		
101	7.4	0.0	32.8
203	17.4	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

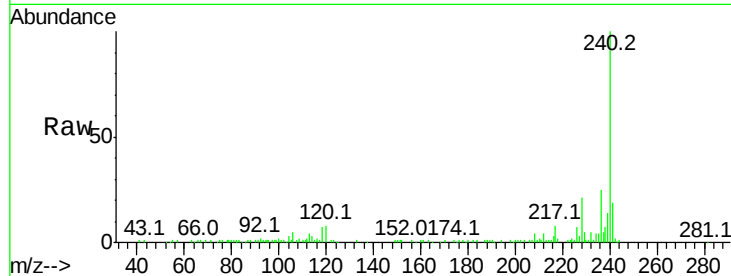
ClientSampleId :

SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.8	9.5	14.3#
236	25.5	20.6	31.0

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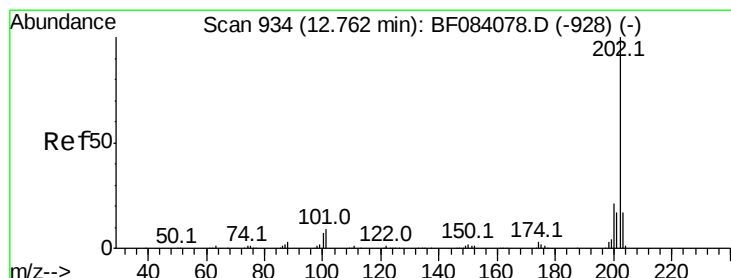
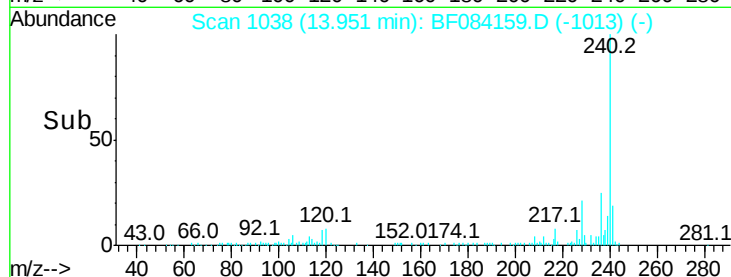
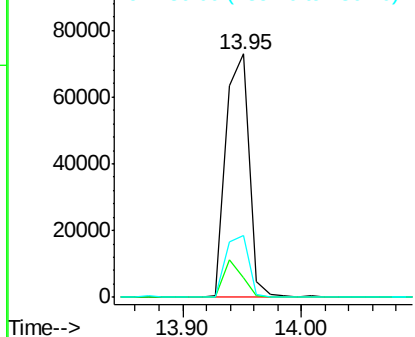
Sohil
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 27.94 ng

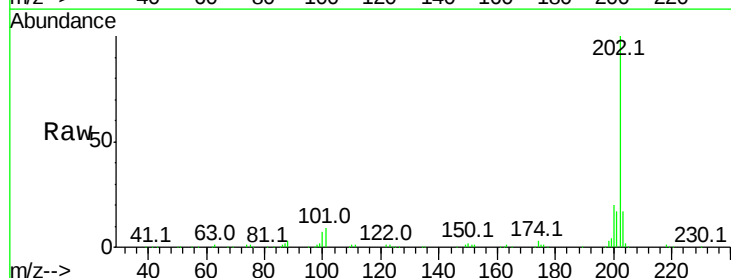
RT: 12.75 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

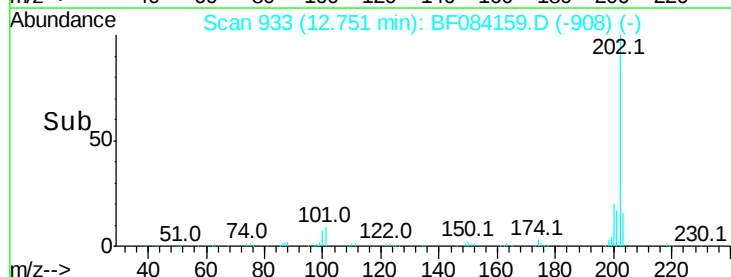
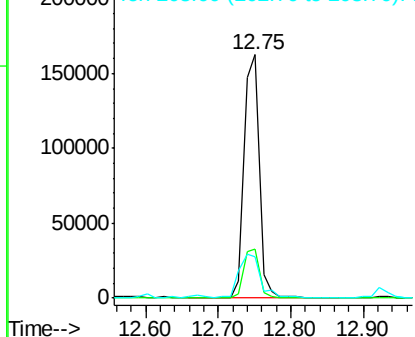
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	17.2	25.8
203	16.9	14.3	21.5

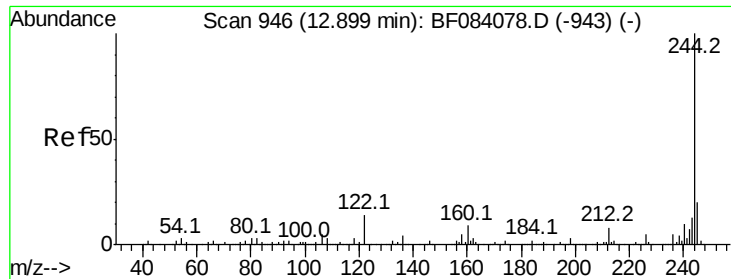


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





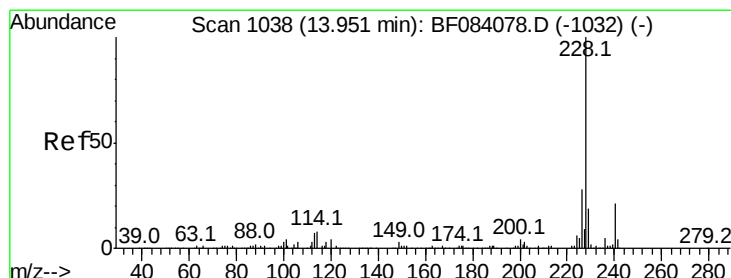
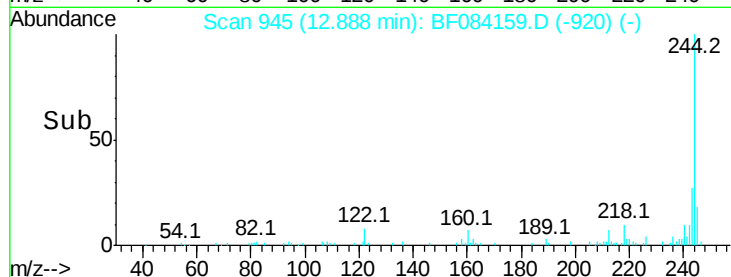
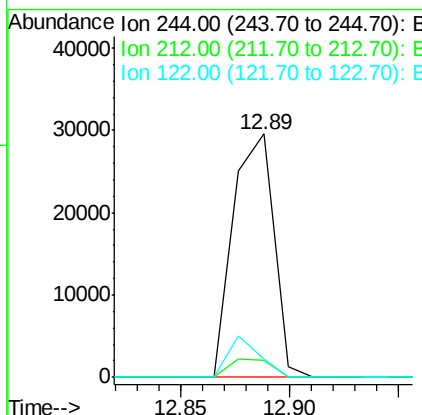
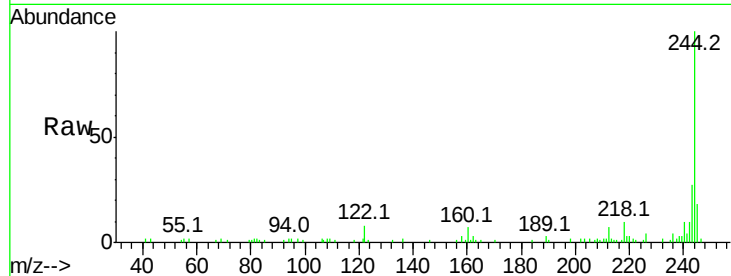
#78
 Terphenyl-d14
 Concen: 7.09 ng
 RT: 12.89 min Scan# 945
 Delta R.T. -0.01 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Instrument :
 BNA_F
 ClientSampleId :
 SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	7.5	7.4	11.0

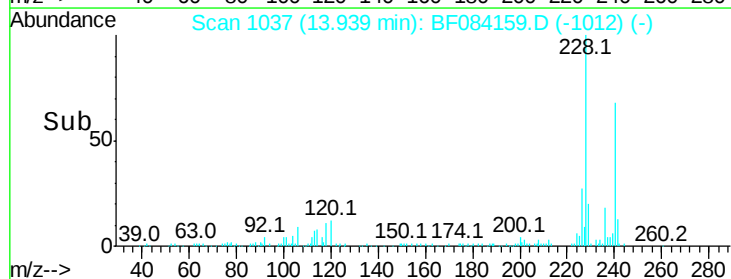
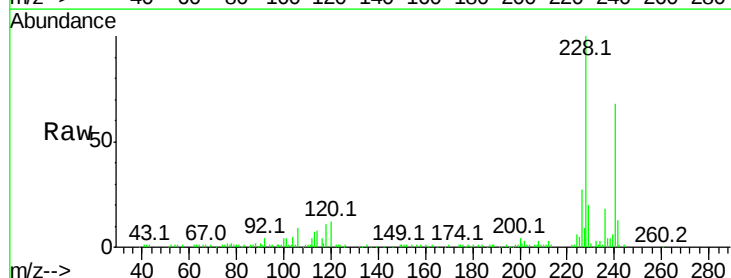
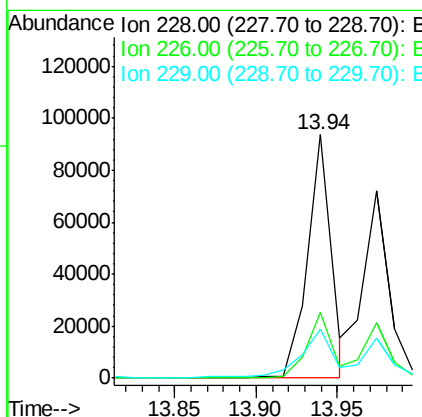
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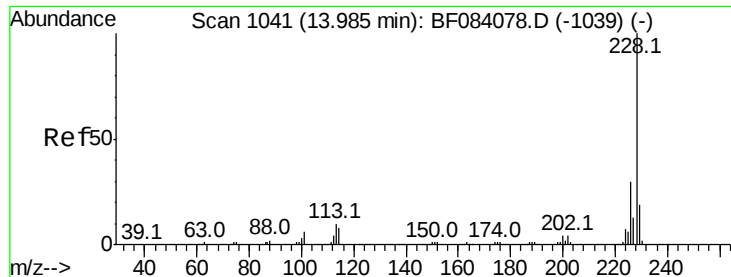
Sohil
 12/29/2015 4:53:34 PM



#80
 Benzo(a)anthracene
 Concen: 15.87 ng m
 RT: 13.94 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF084159.D
 Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.6
229	20.2	15.8	23.8





#82

Chrysene

Concen: 14.53 ng/ml

RT: 13.97 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Instrument :

BNA_F

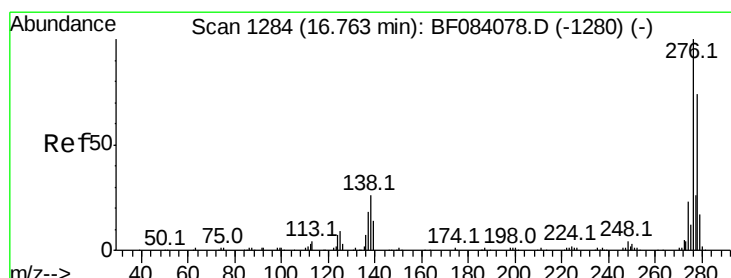
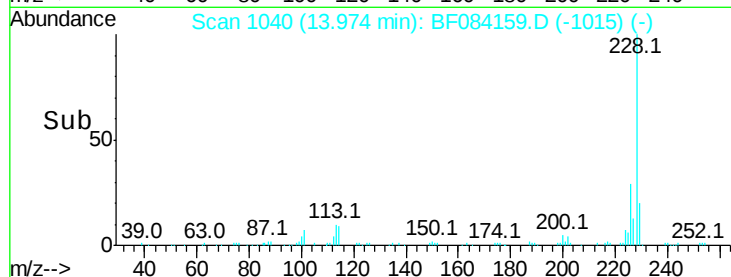
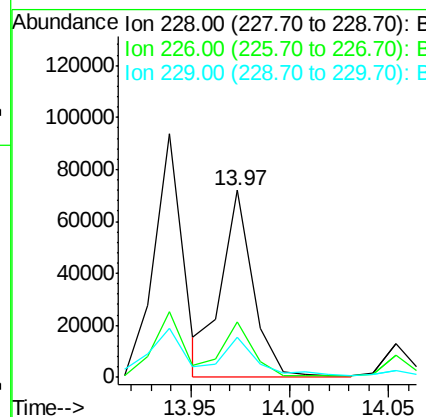
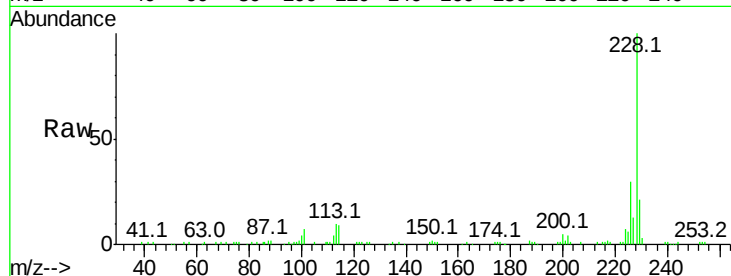
ClientSampleId :

SP-3(0-2)5WDL

Manual Integrations
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12/29/2015 4:53:34 PM

Tot Ion:	228	Resp:	80702
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.3	36.5
229	21.1	16.1	24.1



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.55 ng/ml

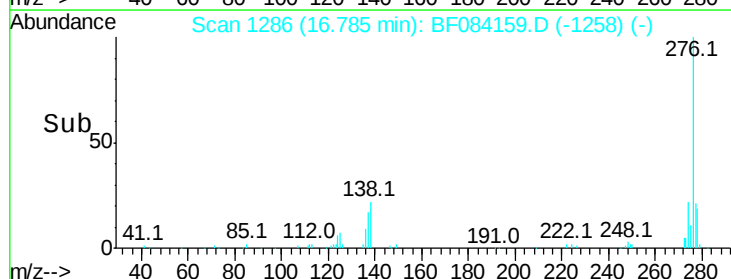
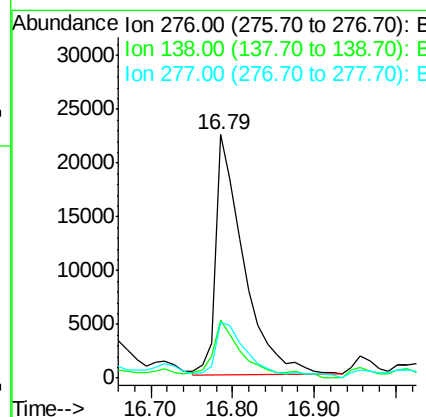
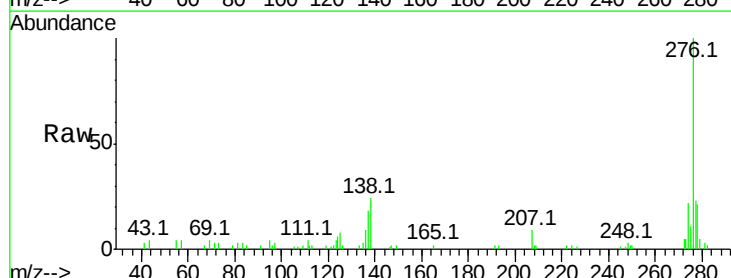
RT: 16.79 min Scan# 1286

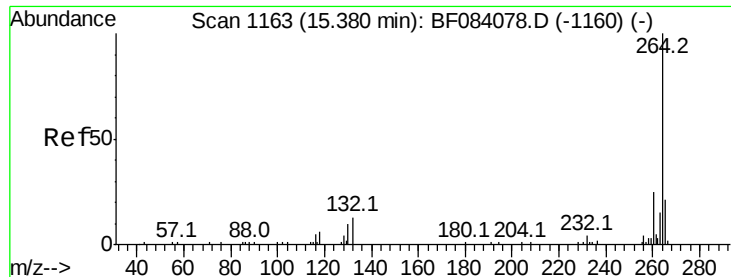
Delta R.T. 0.02 min

Lab File: BF084159.D

Acq: 28 Dec 2015 16:54

Tgt Ion:	276	Resp:	53123
Ion Ratio	Lower	Upper	
276	100		
138	27.4	20.6	30.8
277	28.6	20.1	30.1





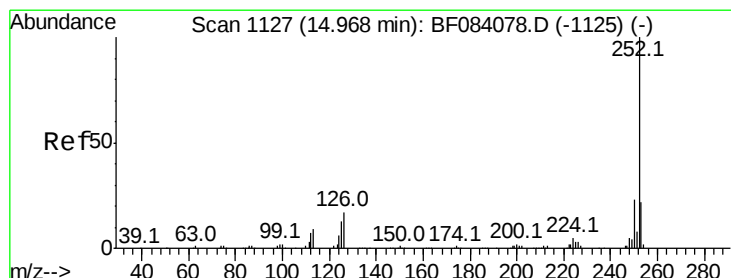
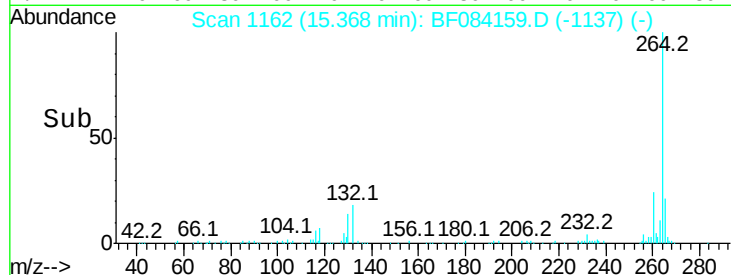
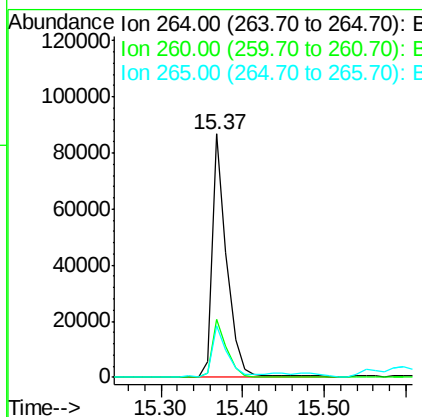
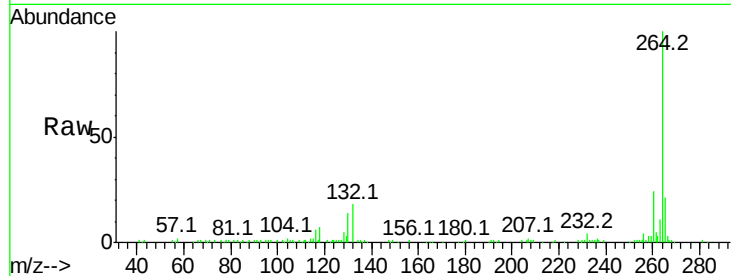
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1162
Delta R.T. -0.01 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Instrument :
BNA_F
ClientSampleId :
SP-3(0-2)5WDL

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.4	17.8	26.6

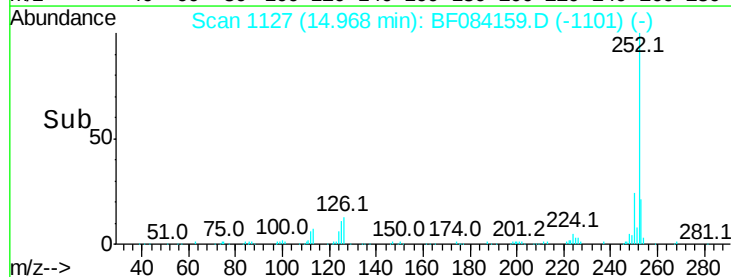
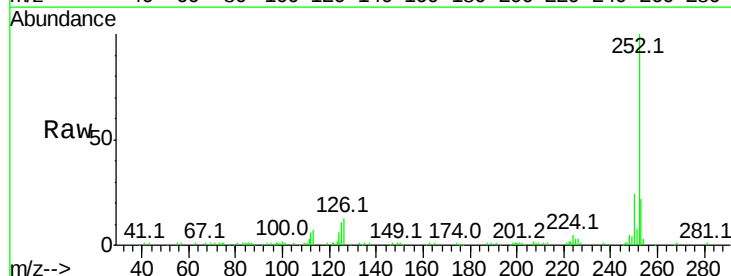
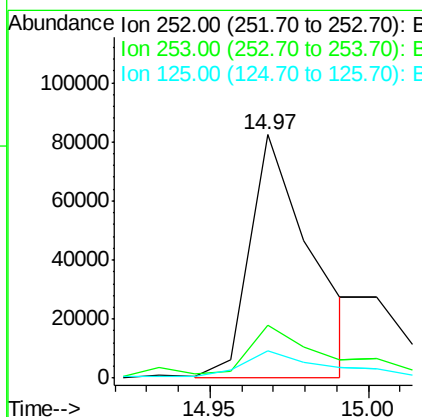
Manual Integrations
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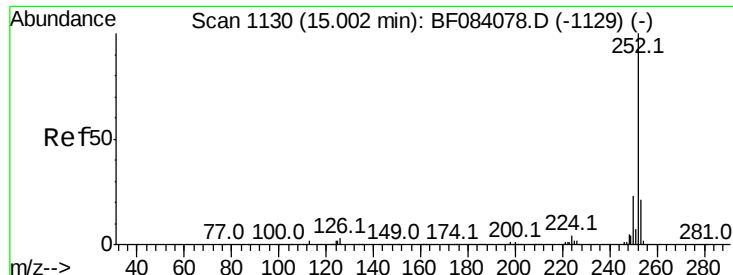
Sohil
12/29/2015 4:53:34 PM



#87
Benzo(b)fluoranthene
Concen: 13.87 ng m
RT: 14.97 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	21.7	17.3	25.9
125	11.4	6.5	9.7#





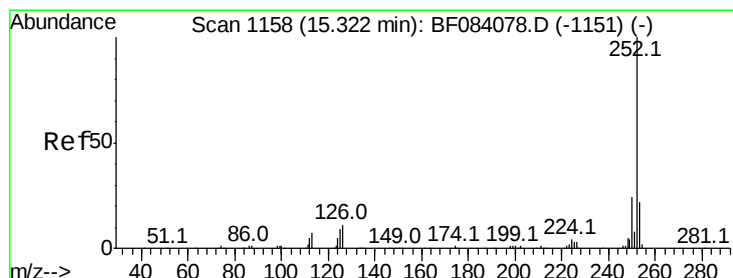
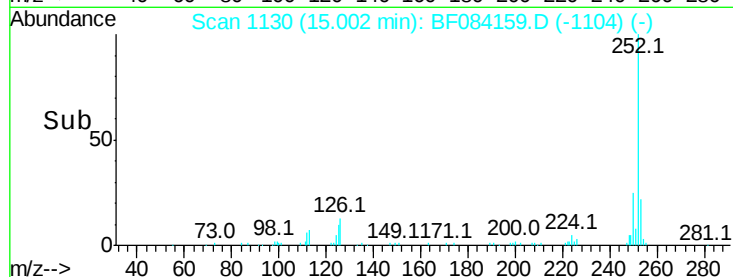
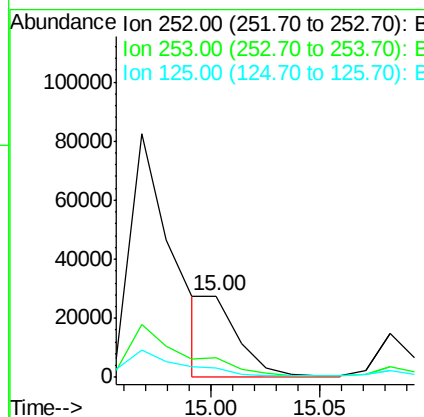
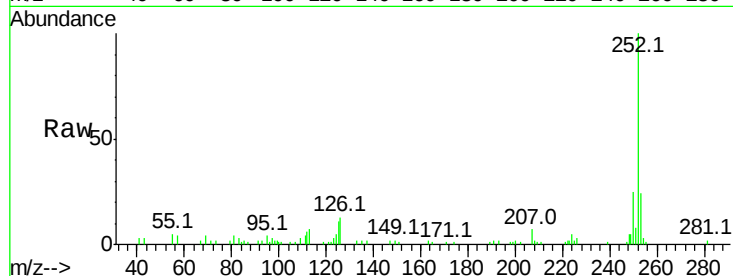
#88
Benzo(k)fluoranthene
Concen: 5.64 ng m
RT: 15.00 min Scan# 1130
Delta R.T. 0.00 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Instrument :
BNA_F
ClientSampleId :
SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	10.8	9.0	13.6

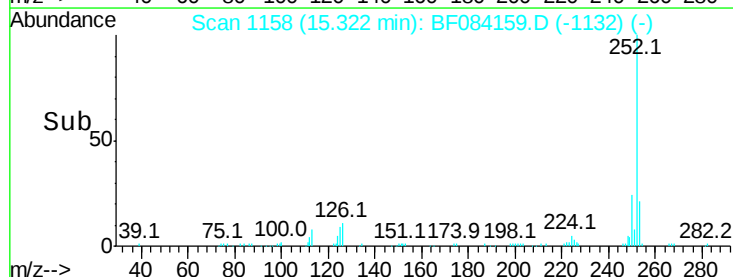
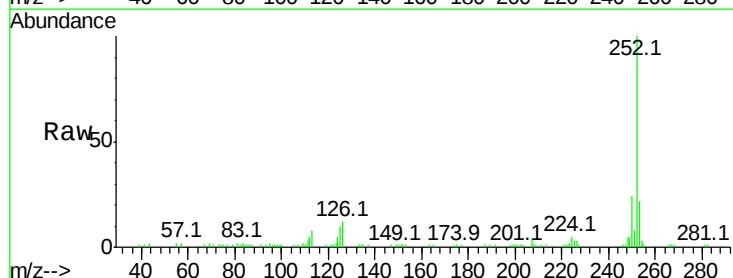
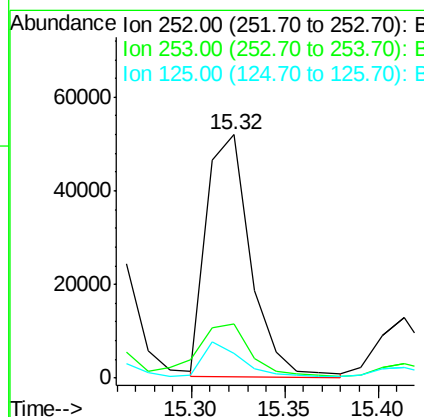
Manual Integrations
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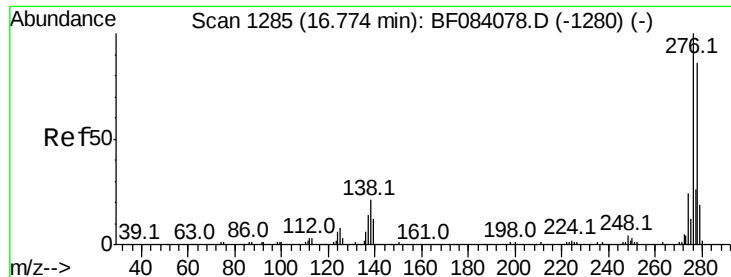
Sohil
12/29/2015 4:53:34 PM



#89
Benzo(a)pyrene
Concen: 12.91 ng
RT: 15.32 min Scan# 1158
Delta R.T. 0.00 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	9.9	7.0	10.4





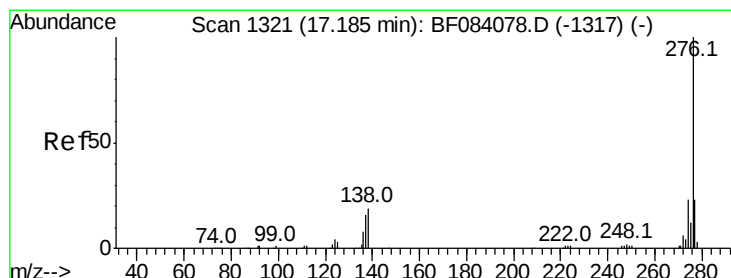
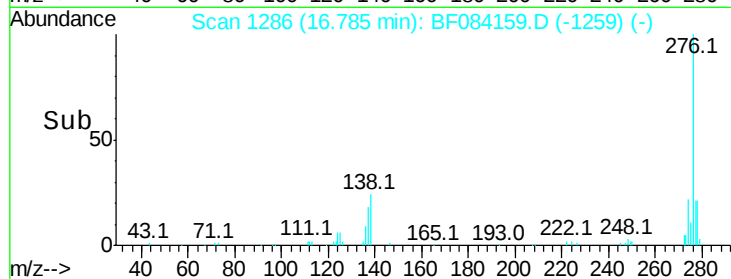
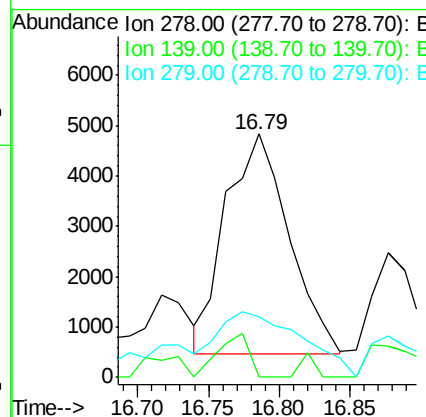
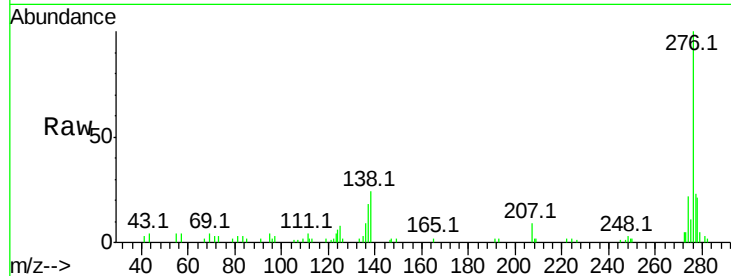
#90
Dibenzo(a,h)anthracene
Concen: 2.10 ng/mL
RT: 16.79 min Scan# 1286
Delta R.T. 0.01 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Instrument :
BNA_F
ClientSampleId :
SP-3(0-2)5WDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.0	22.4#
279	24.8	18.9	28.3

Manual Integrations
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Sohil
12/29/2015 4:53:34 PM



#91
Benzo(g,h,i)perylene
Concen: 8.46 ng/mL
RT: 17.21 min Scan# 1323
Delta R.T. 0.02 min
Lab File: BF084159.D
Acq: 28 Dec 2015 16:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	23.3	17.8	26.6

