

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110315\
 Data File : BF082657.D
 Acq On : 3 Nov 2015 12:03
 Operator : UM/IZ
 Sample : G4234-07DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DS-4DL

Manual Integrations
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Quant Time: Nov 03 13:20:34 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 03 12:27:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	192190	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	747660	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	367966	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	659286	20.00	ng	-0.01
75) Chrysene-d12	14.05	240	542921	20.00	ng	0.00
86) Perylene-d12	15.52	264	440222	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	366665	28.73	ng	0.00
7) Phenol-d6	6.50	99	524681	30.95	ng	-0.01
23) Nitrobenzene-d5	7.44	82	337200	18.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	116880	29.02	ng	-0.01
44) 2-Fluorobiphenyl	9.24	172	486736	18.78	ng	-0.01
78) Terphenyl-d14	12.99	244	400048	16.13	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.19	128	188124	4.65	ng	97
49) Dimethylphthalate	9.64	163	123863	4.12	ng	# 96
70) Phenanthrene	11.42	178	571116	15.36	ng	98
71) Anthracene	11.48	178	168643	4.50	ng	95
74) Fluoranthene	12.63	202	1248164	32.83	ng	95
77) Pyrene	12.85	202	1258307	31.30	ng	97
80) Benzo(a)anthracene	14.04	228	656599	19.04	ng	100
82) Chrysene	14.08	228	406353m	13.00	ng	
85) Indeno(1,2,3-cd)pyrene	16.93	276	302496	11.73	ng	98
87) Benzo(b)fluoranthene	15.11	252	571265m	18.82	ng	
88) Benzo(k)fluoranthene	15.12	252	237237m	10.26	ng	
89) Benzo(a)pyrene	15.46	252	417389	17.46	ng	97
90) Dibenzo(a,h)anthracene	16.95	278	76440m	3.43	ng	
91) Benzo(a,h,i)perylene	17.36	276	288776	13.36	ng	98

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

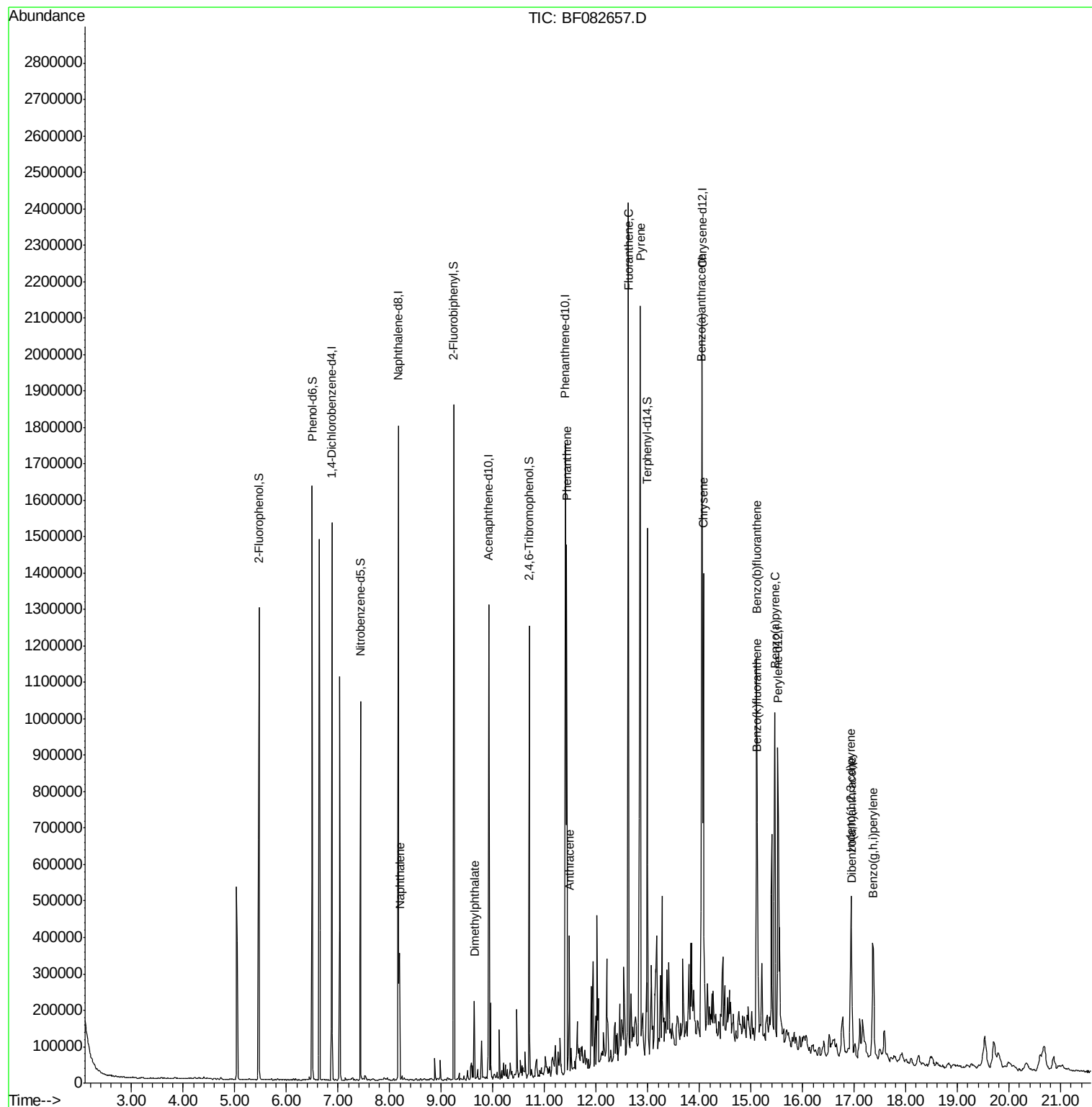
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110315\
Data File : BF082657.D
Acq On : 3 Nov 2015 12:03
Operator : UM/IZ
Sample : G4234-07DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

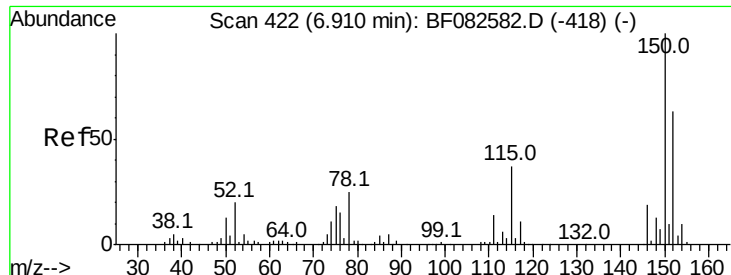
Instrument :
BNA_F
ClientSampleId :
DS-4DL

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Quant Time: Nov 03 13:20:34 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 03 12:27:47 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 419

Delta R.T. 0.00 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

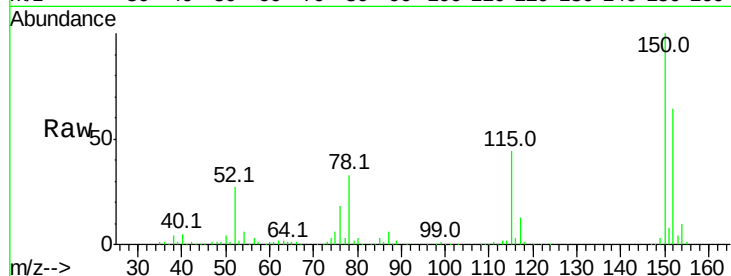
ClientSampled :

DS-4DL

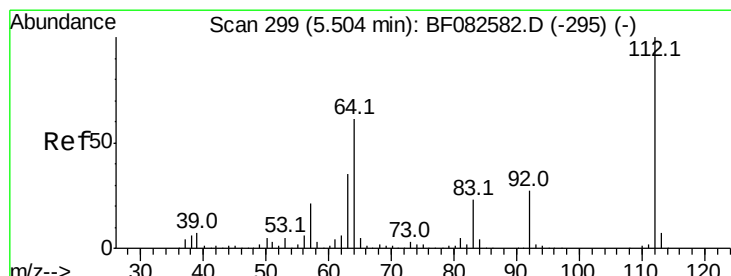
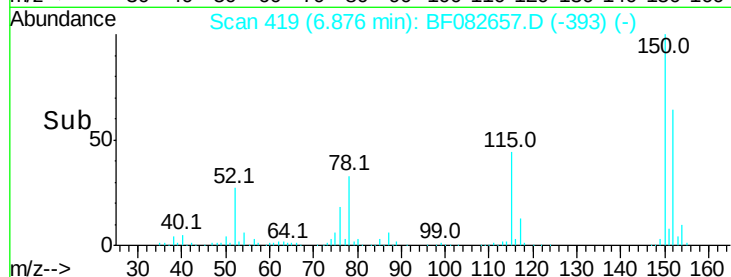
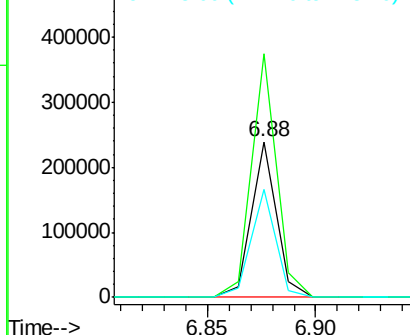
Tot Ion:	152	Resp:	192190
Ion Ratio	Lower	Upper	
152	100		
150	156.6	127.0	190.4
115	69.0	47.0	70.6

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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: 28.73 ng

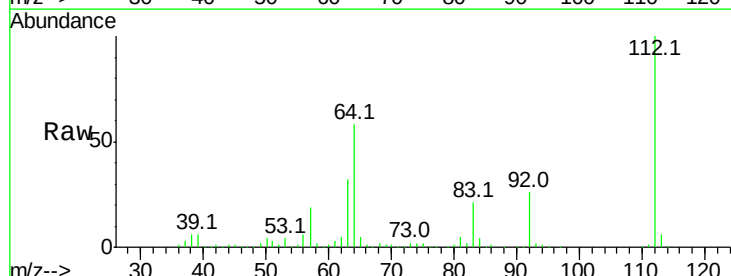
RT: 5.47 min Scan# 296

Delta R.T. 0.00 min

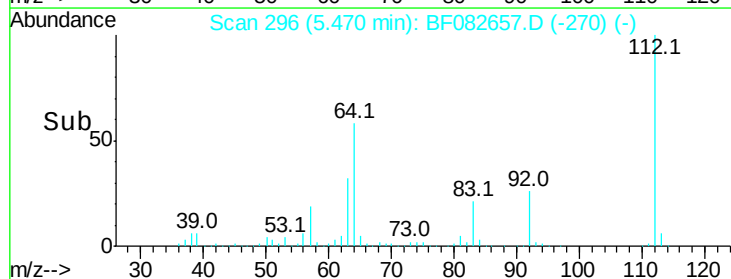
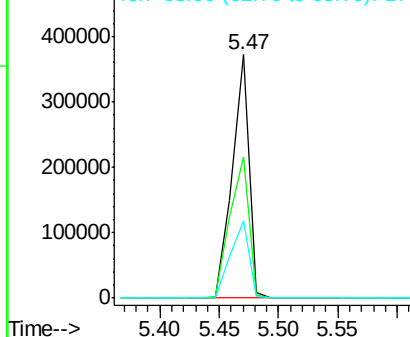
Lab File: BF082657.D

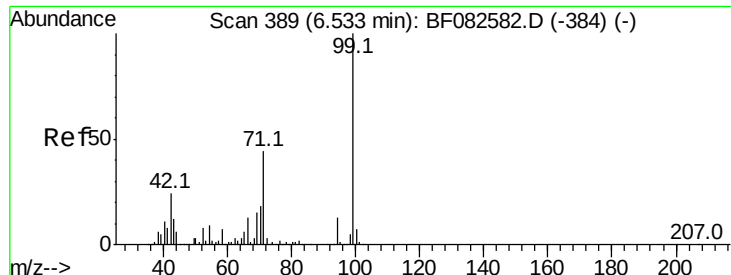
Acq: 3 Nov 2015 12:03

Tgt Ion:	112	Resp:	366665
Ion Ratio	Lower	Upper	
112	100		
64	58.2	48.9	73.3
63	31.7	28.1	42.1



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: 30.95 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

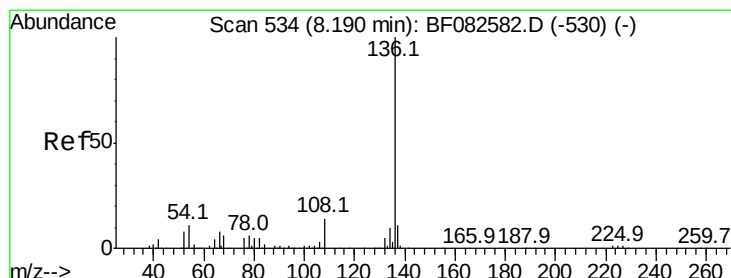
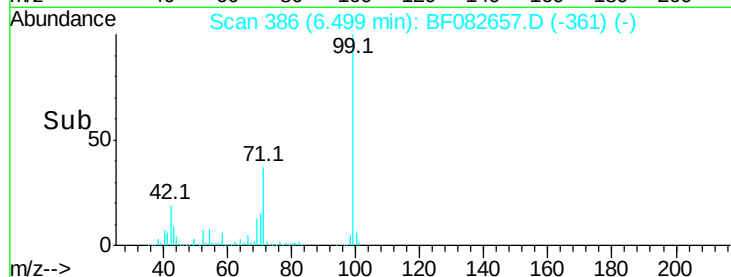
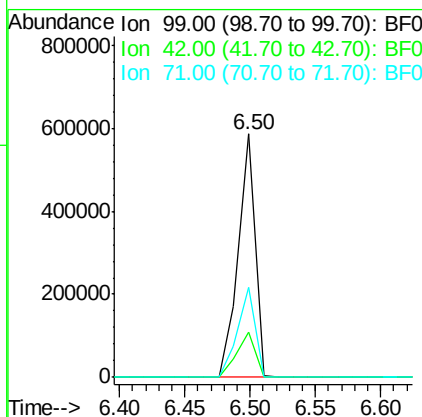
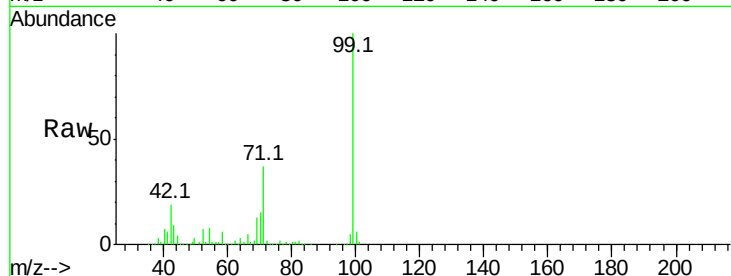
ClientSampleId :

DS-4DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		524681		
42	18.7	19.2	28.8#		
71	37.0	35.0	52.4		

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#21

Naphthalene-d8

Concen: 20.00 ng

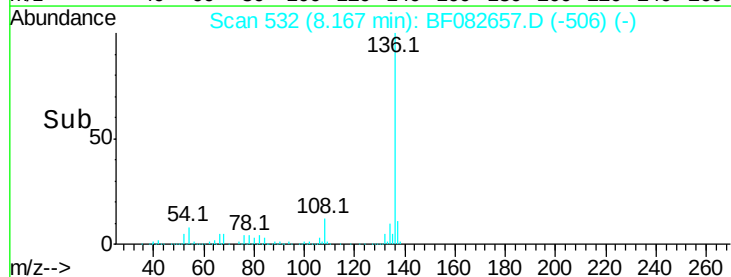
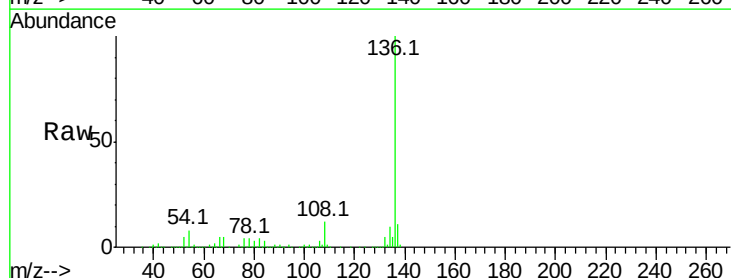
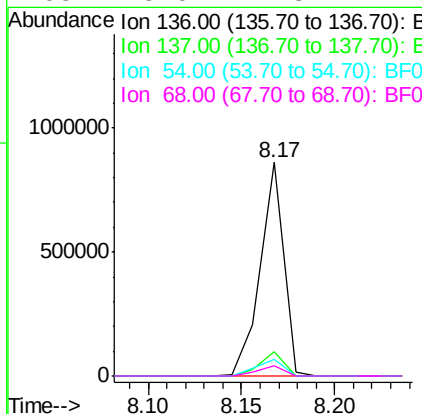
RT: 8.17 min Scan# 532

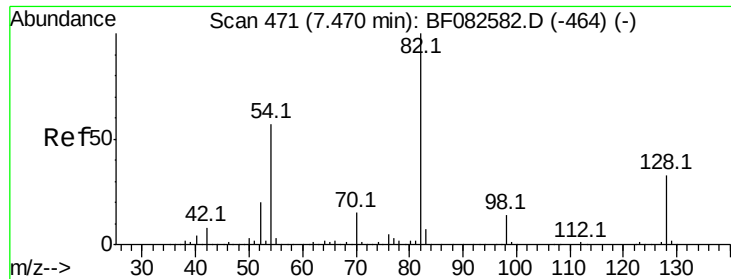
Delta R.T. 0.00 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		747660		
137	11.2	9.1	13.7		
54	7.5	9.1	13.7#		
68	5.0	4.8	7.2		





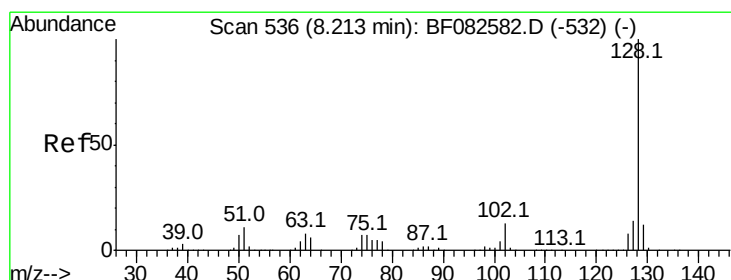
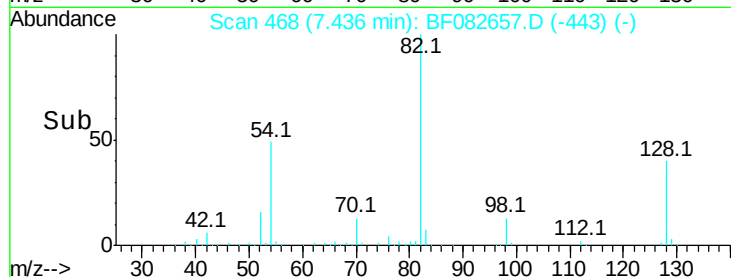
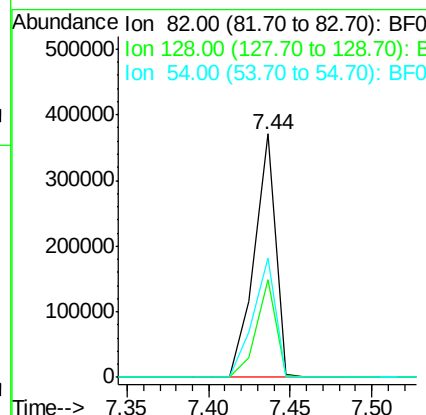
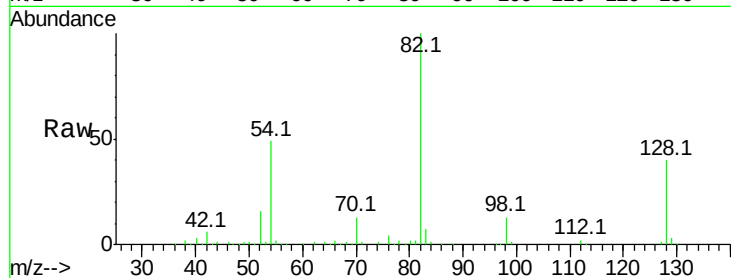
#23
 Nitrobenzene-d5
 Concen: 18.42 ng
 RT: 7.44 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Instrument :
 BNA_F
 ClientSampled :
 DS-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.9	26.8	40.2
54	48.9	45.7	68.5

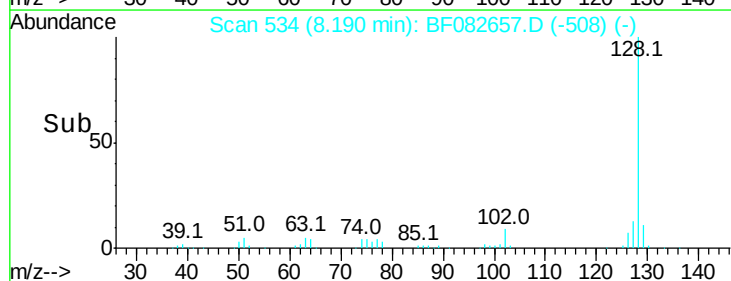
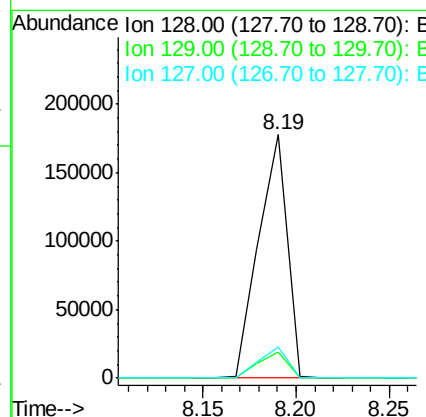
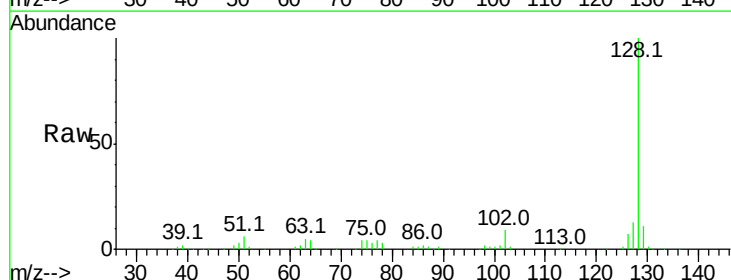
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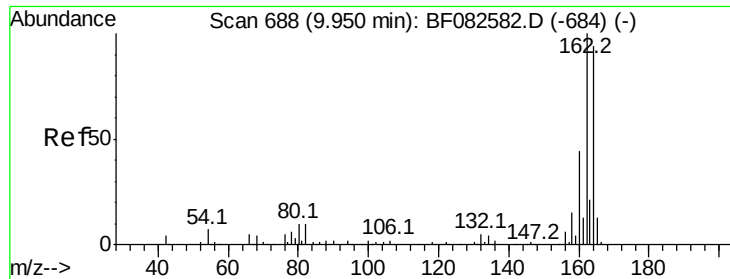
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#31
 Naphthalene
 Concen: 4.65 ng
 RT: 8.19 min Scan# 534
 Delta R.T. 0.00 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.5	14.3
127	13.0	11.4	17.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

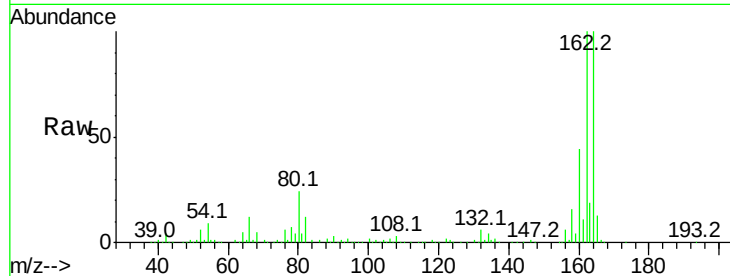
ClientSampled :

DS-4DL

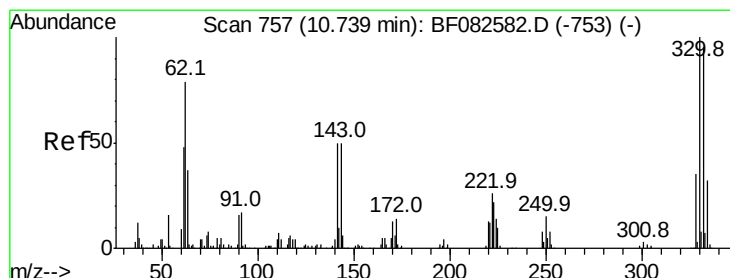
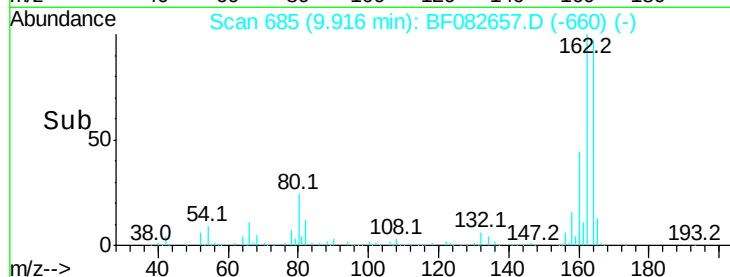
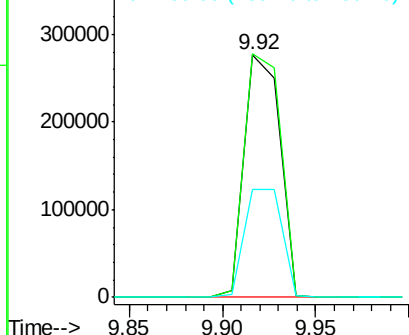
Tot Ion:	164	Resp:	367966
Ion Ratio	Lower	Upper	
164	100		
162	100.4	84.9	127.3
160	44.6	37.5	56.3

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 29.02 ng

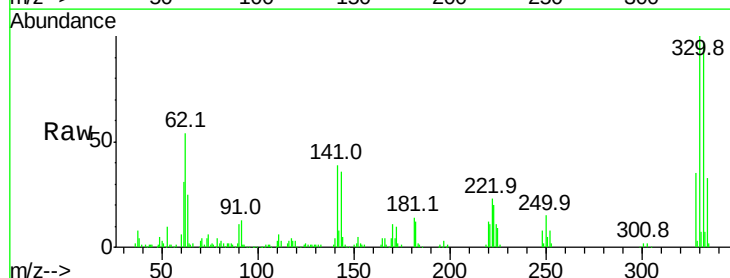
RT: 10.70 min Scan# 754

Delta R.T. -0.01 min

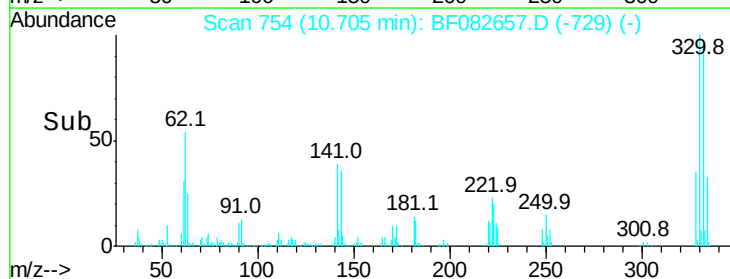
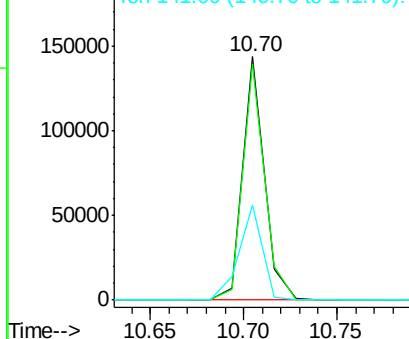
Lab File: BF082657.D

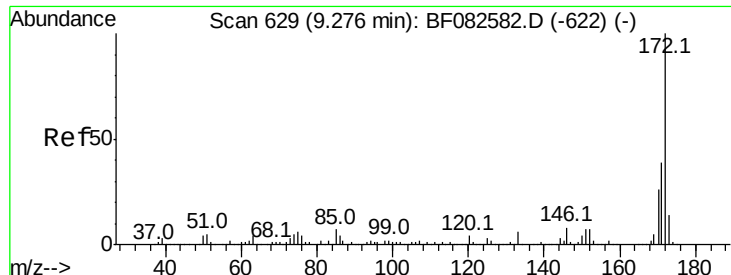
Acq: 3 Nov 2015 12:03

Tgt Ion:	330	Resp:	116880
Ion Ratio	Lower	Upper	
330	100		
332	98.0	76.6	114.8
141	43.5	41.2	61.8



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





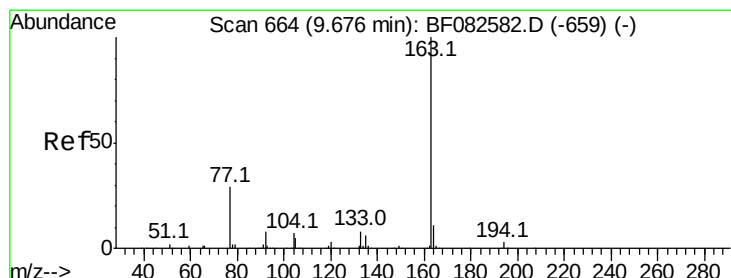
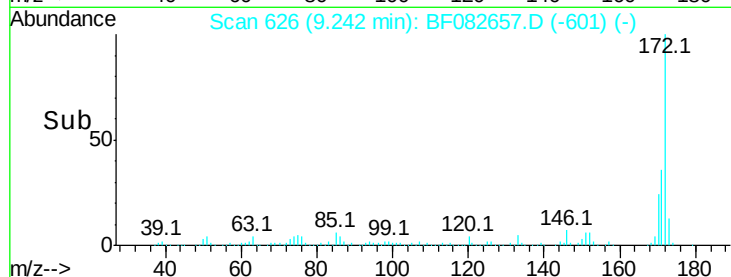
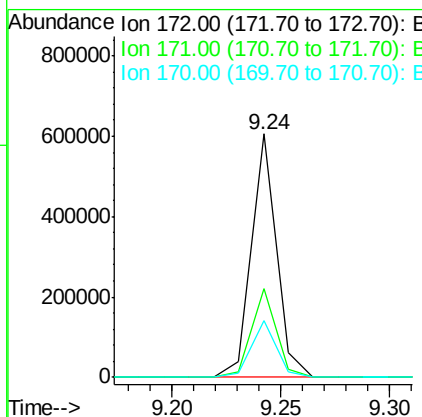
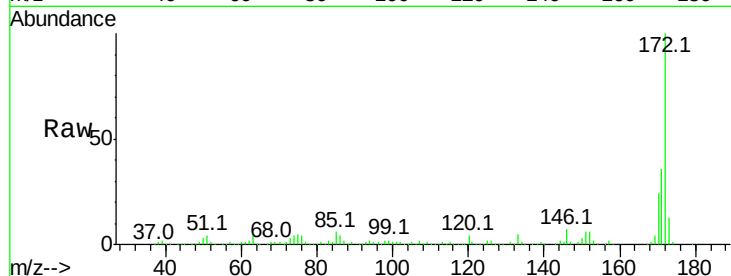
#44
2-Fluorobiphenyl
Concen: 18.78 ng
RT: 9.24 min Scan# 626
Delta R.T. -0.01 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Instrument :
BNA_F
ClientSampleId :
DS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	486736		
171	36.3		30.8	46.2
170	23.5		21.2	31.8

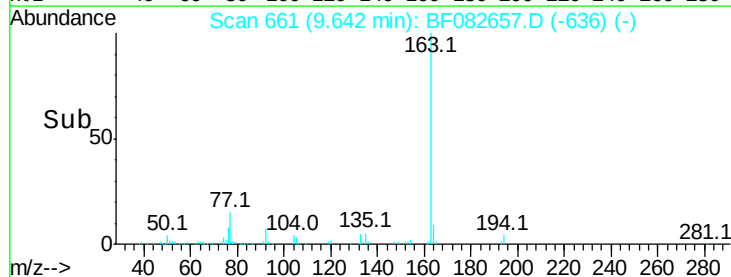
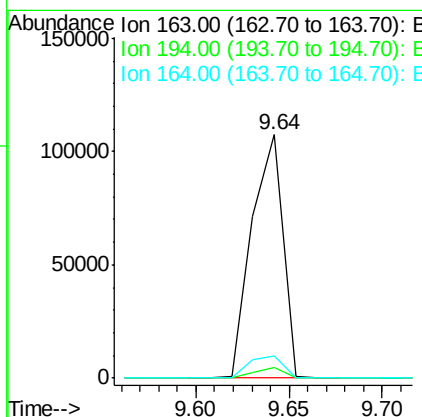
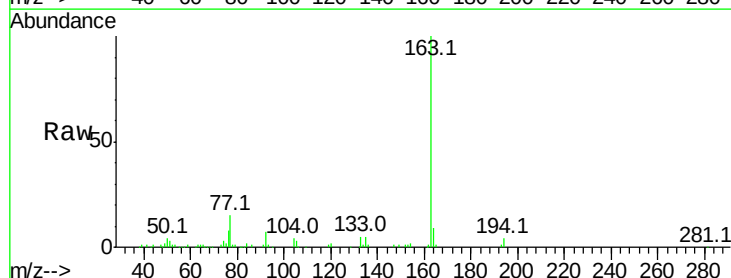
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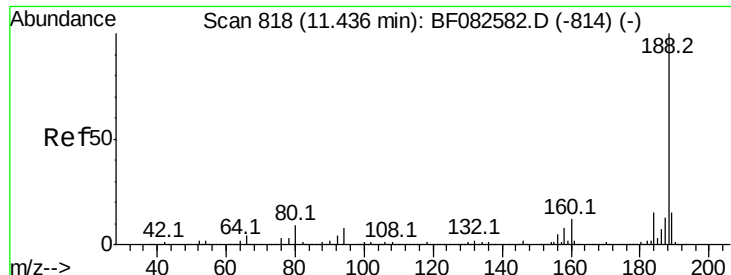
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#49
Dimethylphthalate
Concen: 4.12 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.01 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	123863		
194	4.1		2.6	4.0#
164	9.2		8.7	13.1





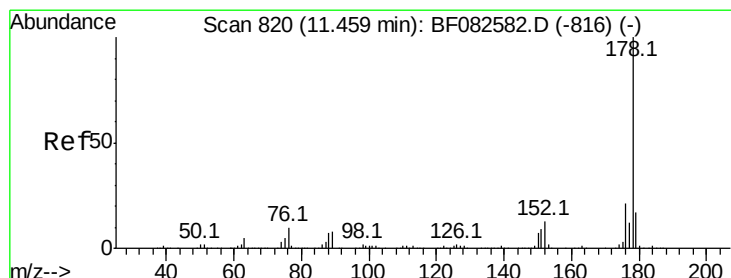
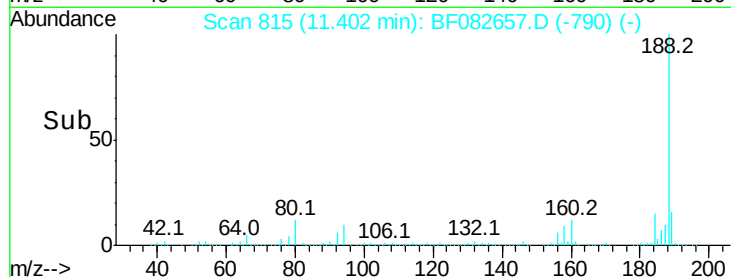
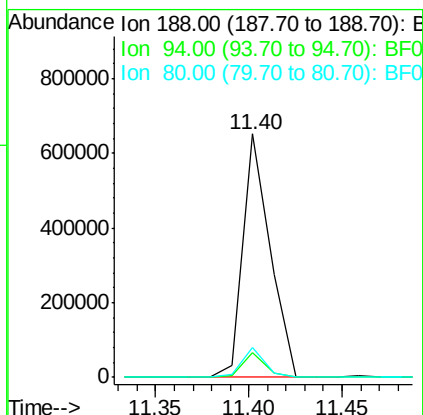
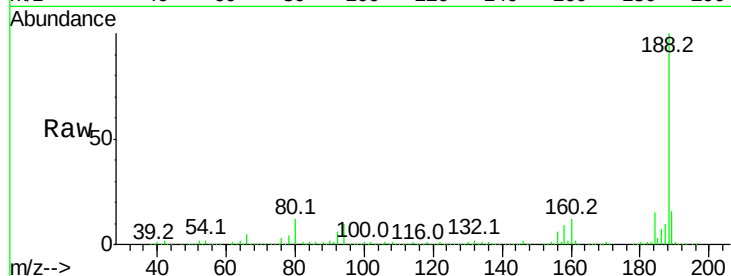
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.40 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Instrument :
 BNA_F
 ClientSampleId :
 DS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	659286		
94	10.3	6.1	9.1#	
80	12.2	7.0	10.6#	

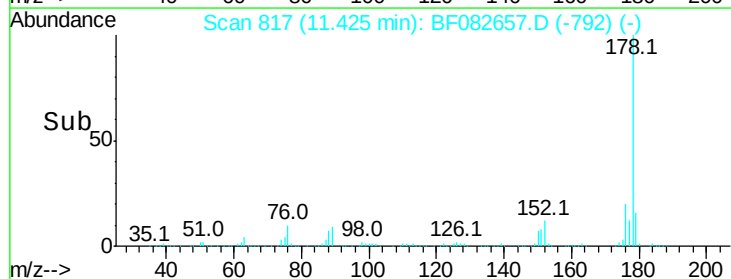
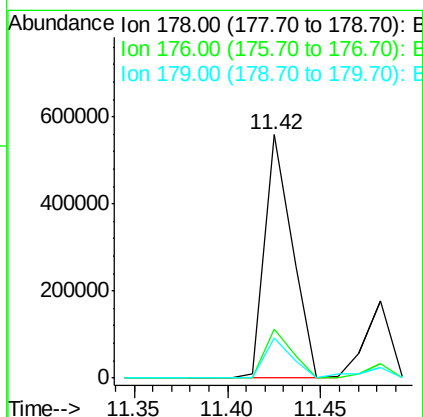
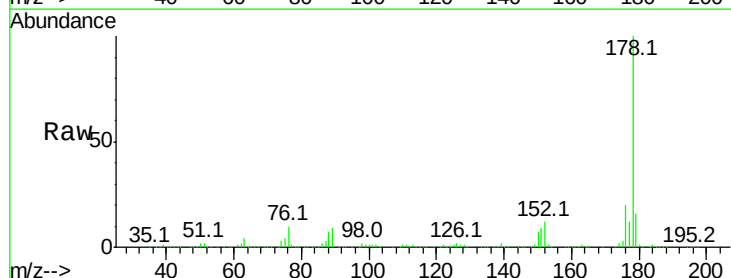
Manual Integrations
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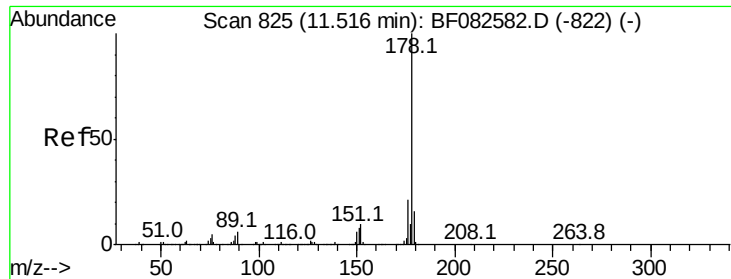
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#70
 Phenanthrene
 Concen: 15.36 ng
 RT: 11.42 min Scan# 817
 Delta R.T. -0.01 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	571116		
176	19.9	17.0	25.4	
179	16.4	13.4	20.0	





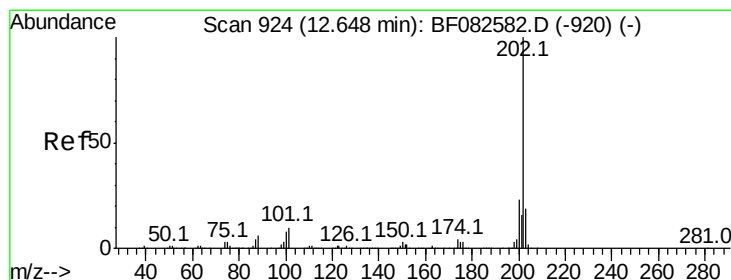
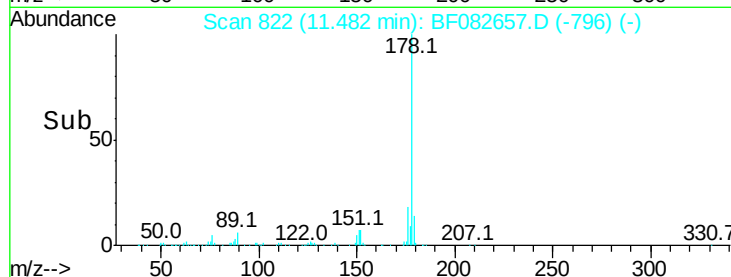
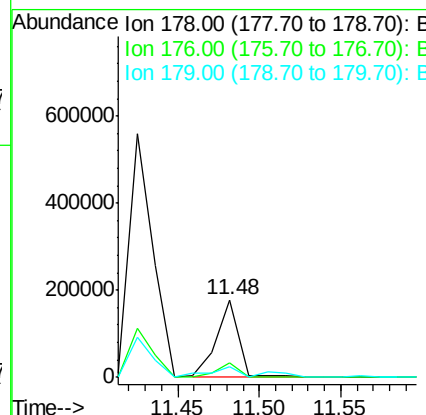
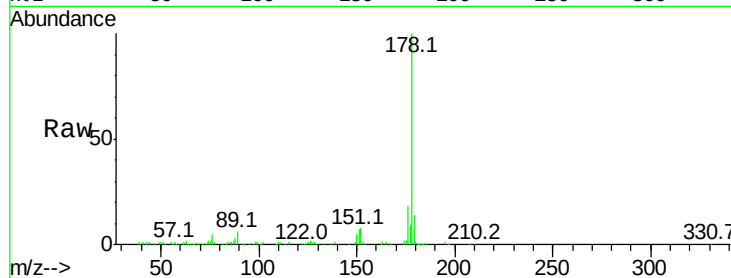
#71
 Anthracene
 Concen: 4.50 ng
 RT: 11.48 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Instrument :
 BNA_F
 ClientSampleId :
 DS-4DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	16.5	24.7
179	14.5	13.2	19.8

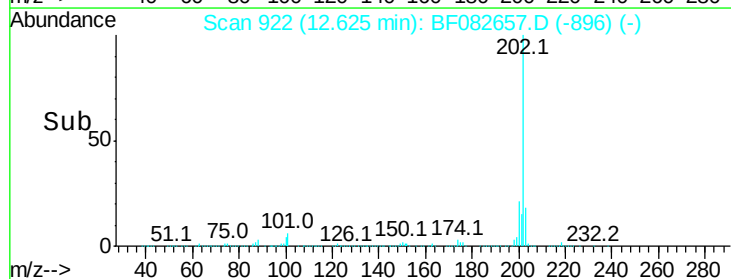
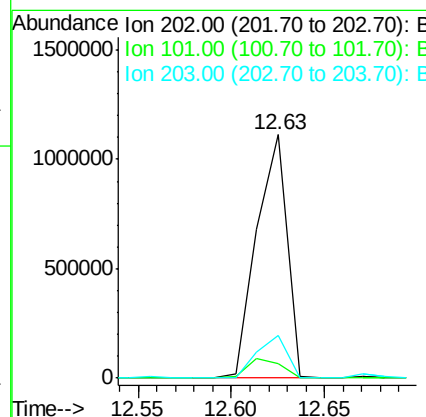
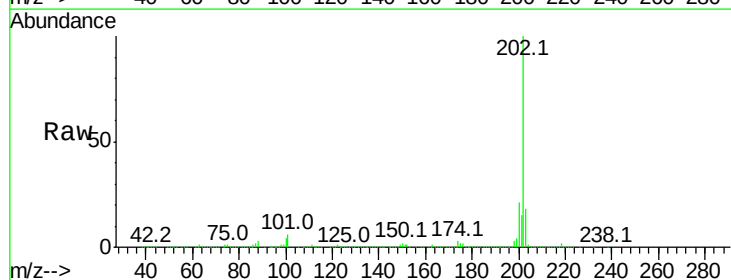
Manual Integrations
 APPROVED

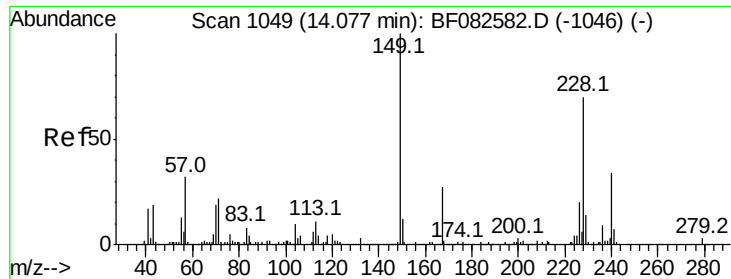
Mmdadoda
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#74
 Fluoranthene
 Concen: 32.83 ng
 RT: 12.63 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: BF082657.D
 Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.0	0.0	30.5
203	17.7	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. 0.00 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

ClientSampleId :

DS-4DL

Tot Ion:240 Resp: 542921

Ion Ratio Lower Upper

240 100

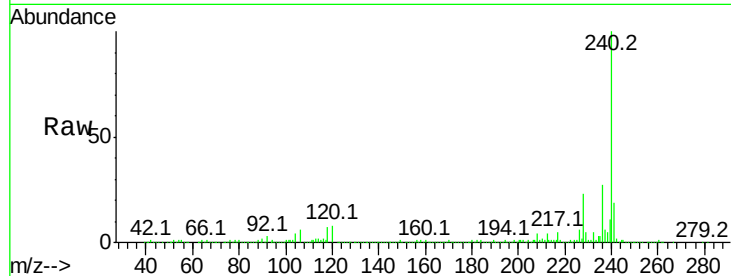
120 8.0 10.9 16.3#

236 27.5 21.6 32.4

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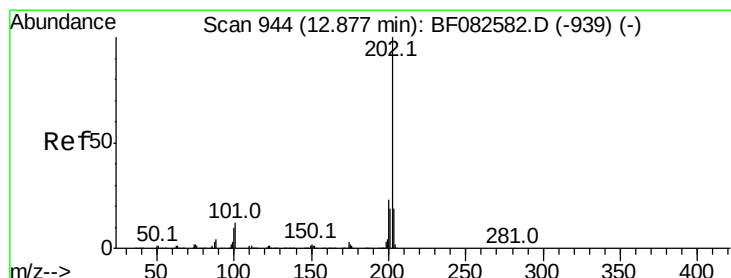
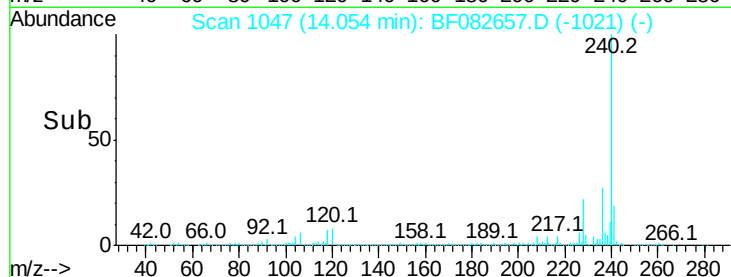
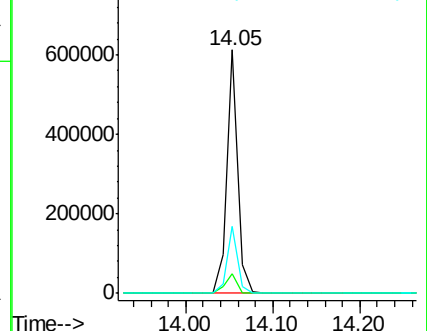
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 31.30 ng

RT: 12.85 min Scan# 942

Delta R.T. 0.00 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

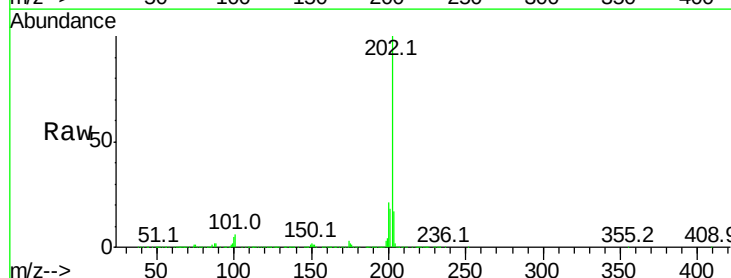
Tgt Ion:202 Resp: 1258307

Ion Ratio Lower Upper

202 100

200 21.3 18.7 28.1

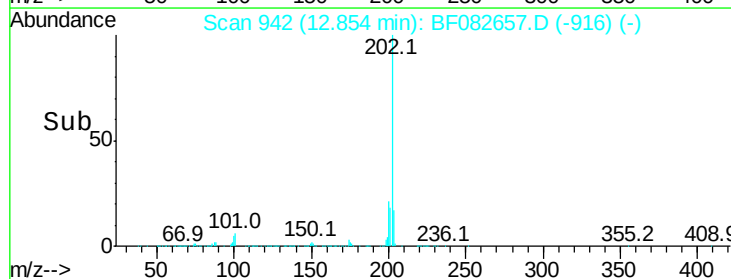
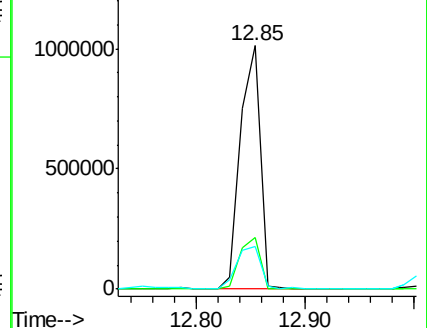
203 17.5 14.8 22.2

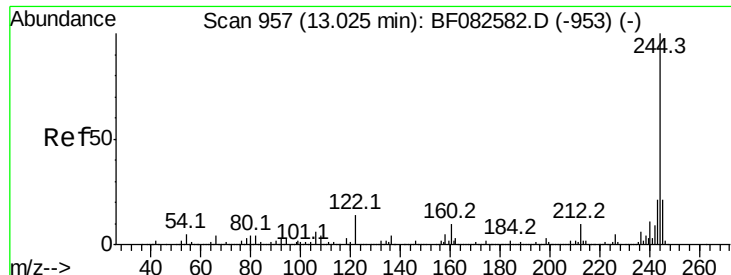


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 16.13 ng

RT: 12.99 min Scan# 954

Delta R.T. -0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

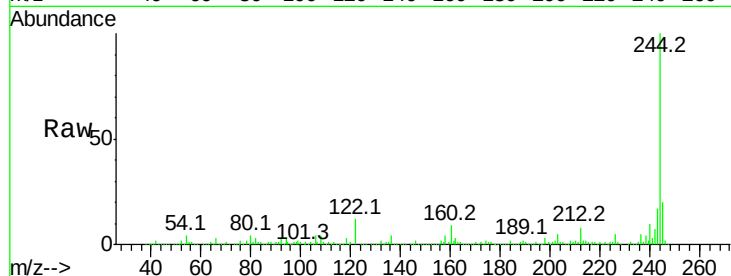
ClientSampled :

DS-4DL

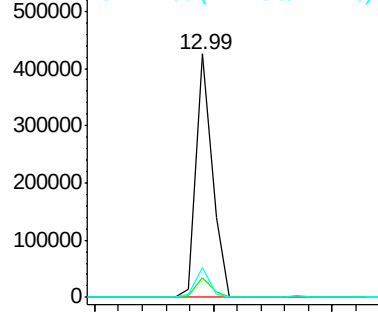
Tot Ion:	244	Resp:	400048
Ion Ratio	Lower	Upper	
244	100		
212	8.0	7.6	11.4
122	12.3	11.3	16.9

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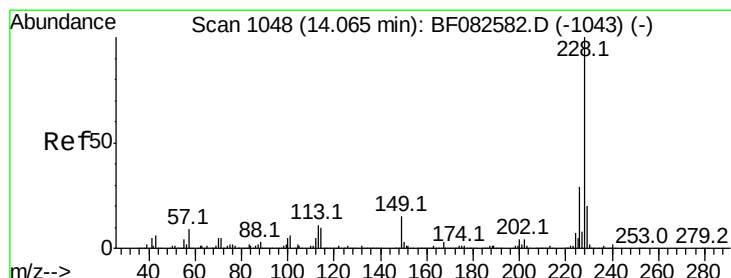
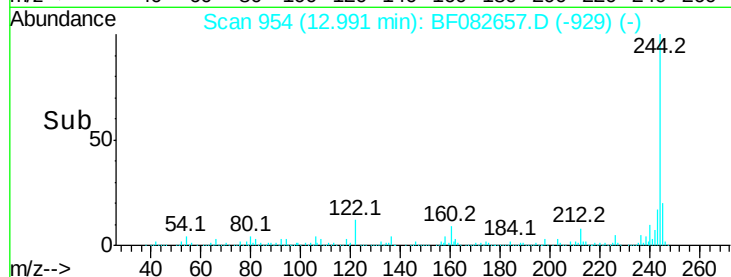
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->



#80

Benzo(a)anthracene

Concen: 19.04 ng

RT: 14.04 min Scan# 1046

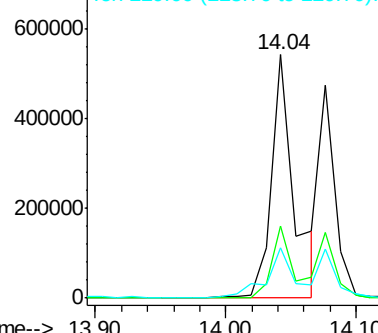
Delta R.T. 0.00 min

Lab File: BF082657.D

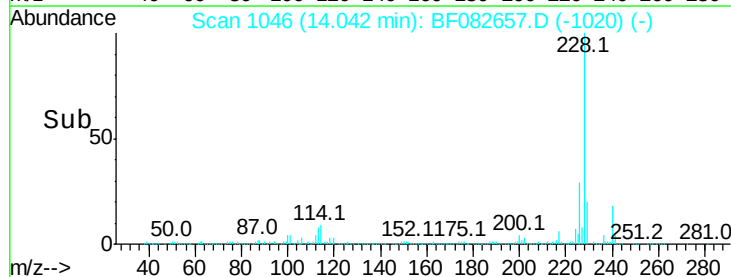
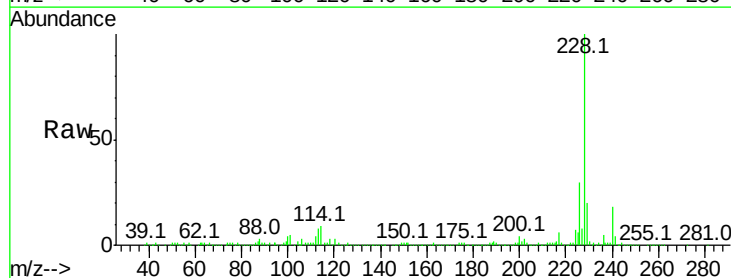
Acq: 3 Nov 2015 12:03

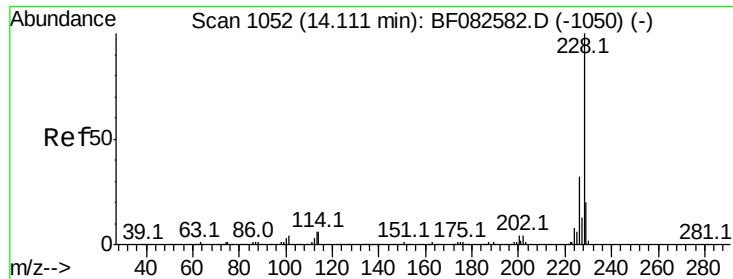
Tgt Ion:	228	Resp:	656599
Ion Ratio	Lower	Upper	
228	100		
226	29.7	23.4	35.2
229	20.5	16.3	24.5

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



Time-->





#82

Chrysene

Concen: 13.00 ng/mL

RT: 14.08 min Scan# 1049

Delta R.T. -0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

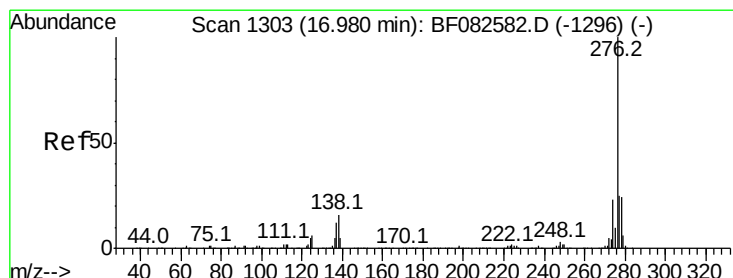
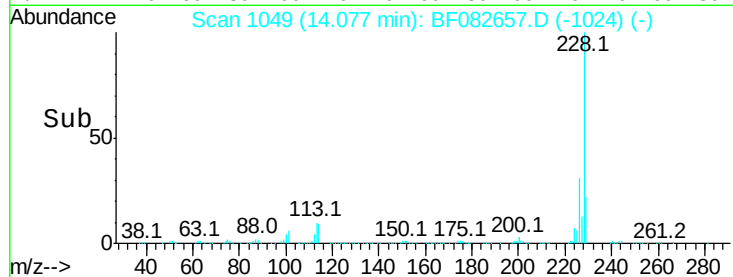
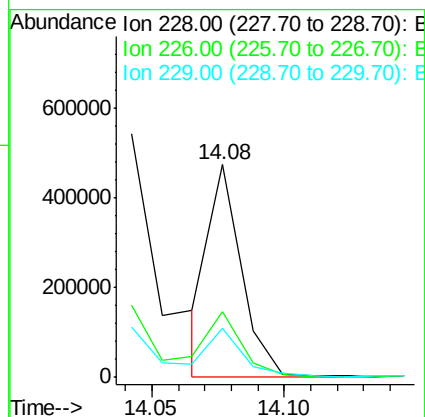
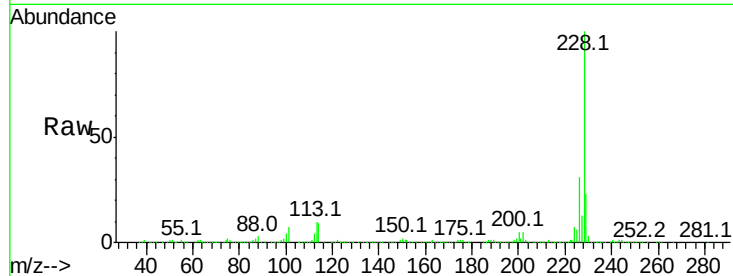
ClientSampleId :

DS-4DL

Tot Ion:	228	Resp:	406353
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.5	38.3
229	22.9	16.3	24.5

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 11.73 ng/mL

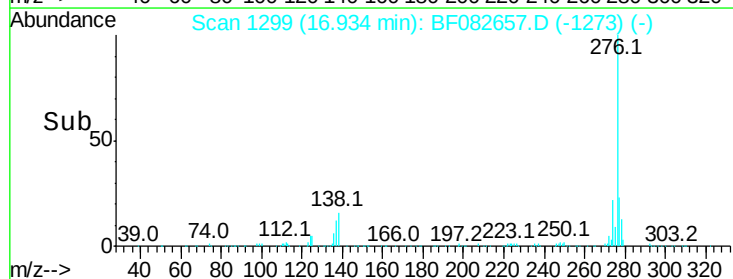
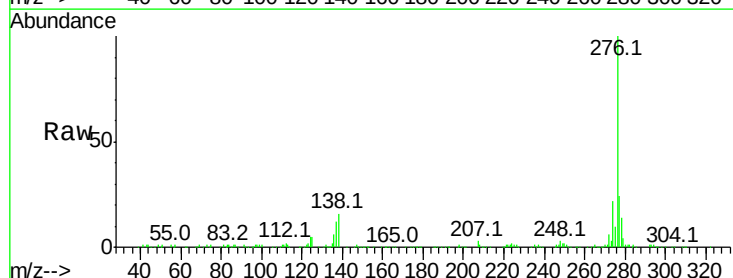
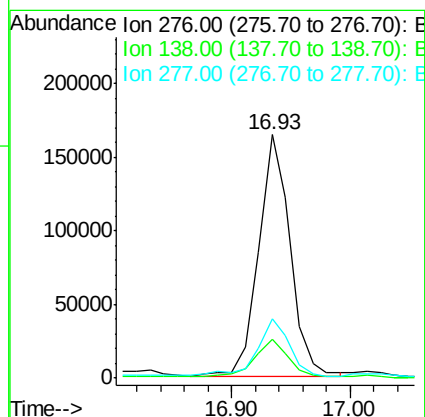
RT: 16.93 min Scan# 1299

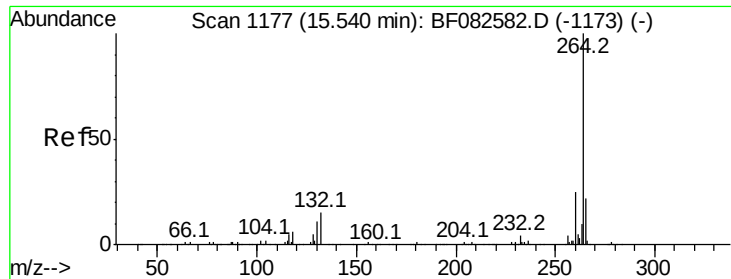
Delta R.T. 0.00 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Tgt Ion:	276	Resp:	302496
Ion Ratio	Lower	Upper	
276	100		
138	17.1	15.3	22.9
277	25.5	20.2	30.4





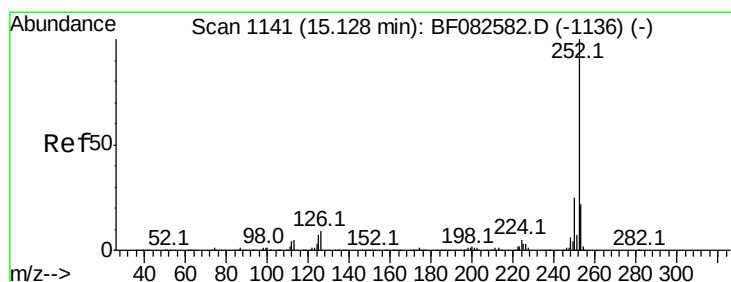
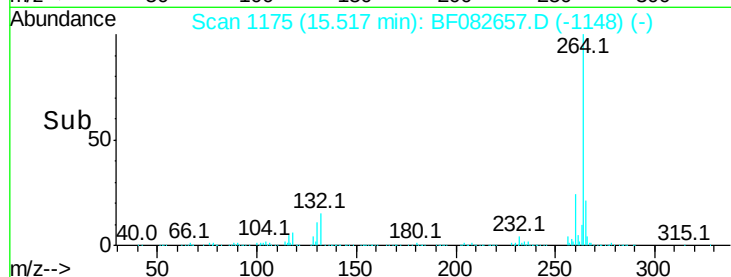
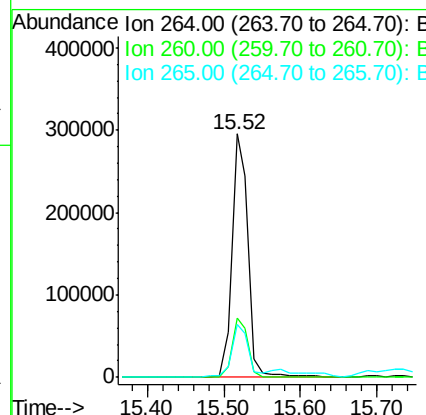
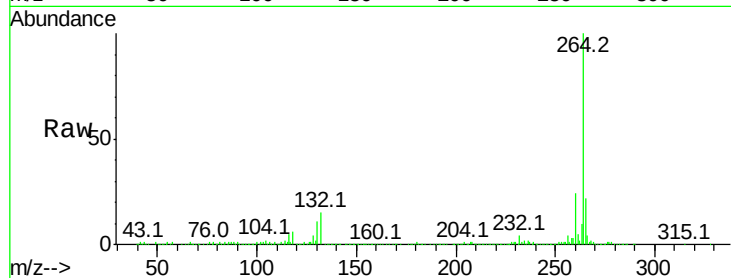
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.52 min Scan# 1175
Delta R.T. 0.01 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Instrument :
BNA_F
ClientSampleId :
DS-4DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.8	29.6
265	21.6	17.4	26.0

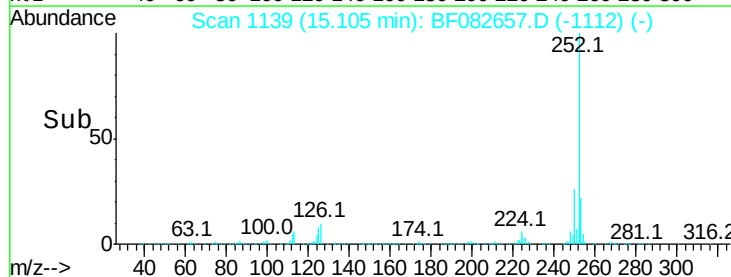
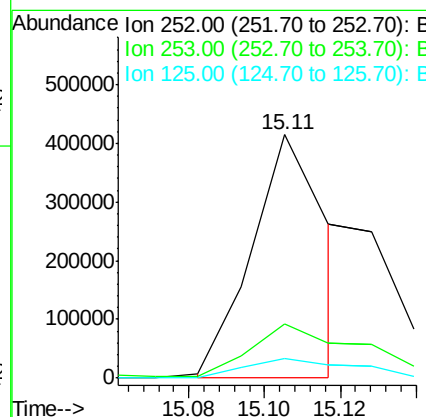
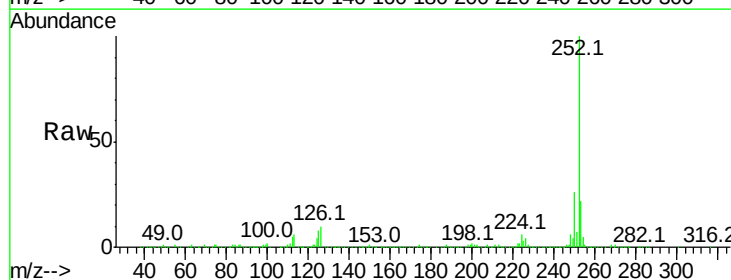
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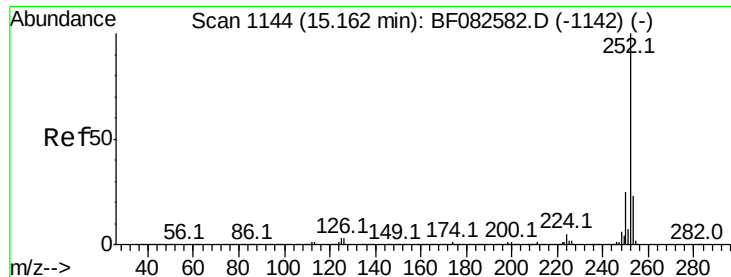
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11/4/2015 5:26:10 PM



#87
Benzo(b)fluoranthene
Concen: 18.82 ng m
RT: 15.11 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	8.3	5.4	8.2#





#88

Benzo(k)fluoranthene

Concen: 10.26 ng

RT: 15.12 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Instrument :

BNA_F

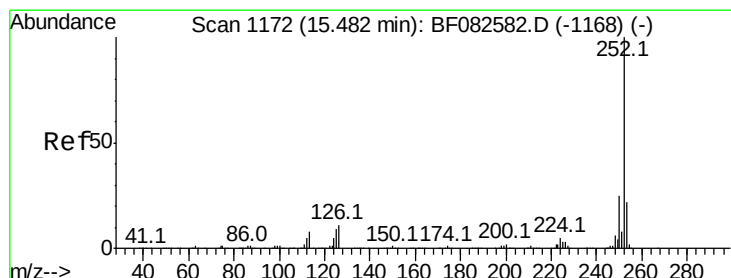
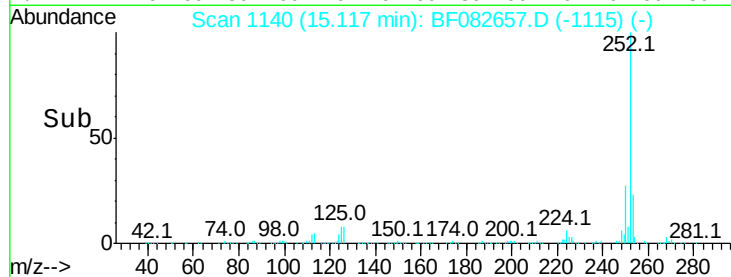
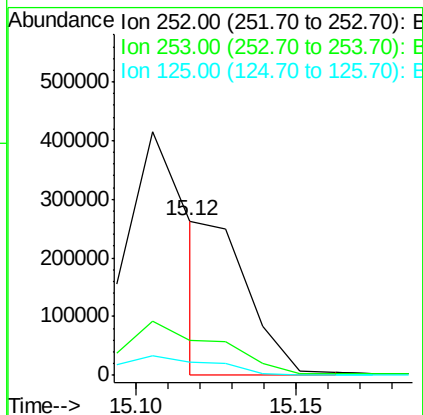
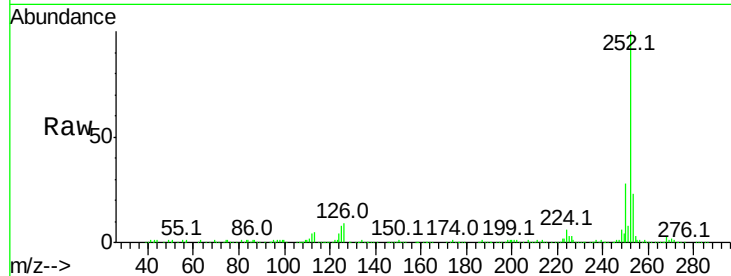
ClientSampled :

DS-4DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	237237		
253	22.7	17.9	26.9	
125	8.2	3.5	5.3#	

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 17.46 ng

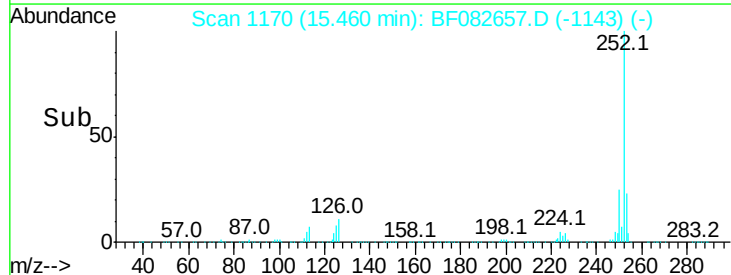
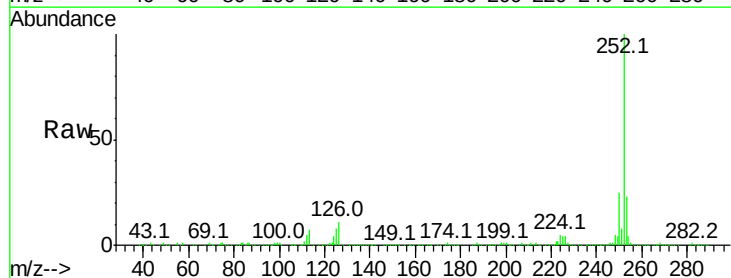
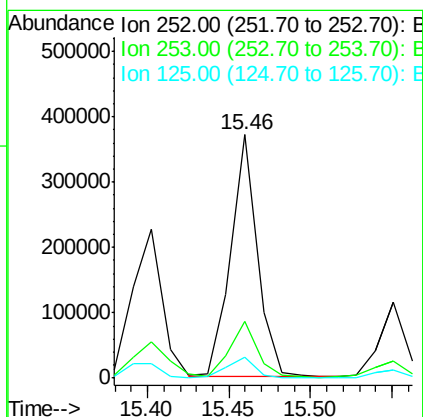
RT: 15.46 min Scan# 1170

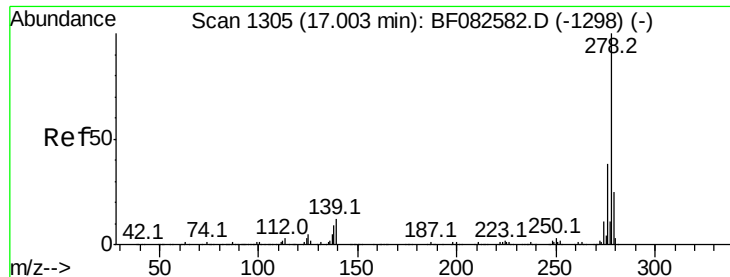
Delta R.T. 0.01 min

Lab File: BF082657.D

Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	417389		
253	23.3	17.3	25.9	
125	8.4	7.1	10.7	





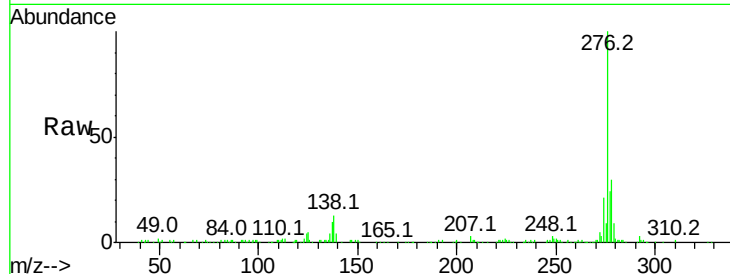
#90
Dibenzo(a,h)anthracene
Concen: 3.43 ng m
RT: 16.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Instrument :
BNA_F
ClientSampleId :
DS-4DL

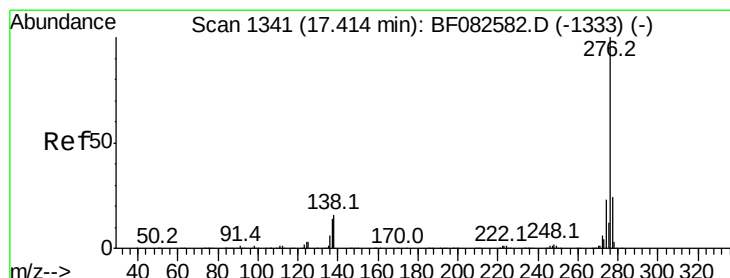
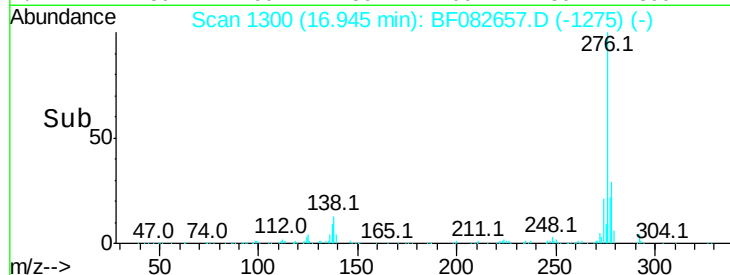
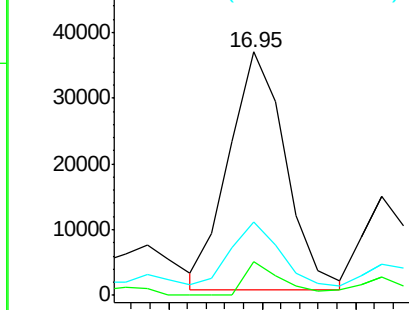
Tot Ion	Ratio	Lower	Upper
278	100		
139	14.0	9.9	14.9
279	30.2	19.6	29.4

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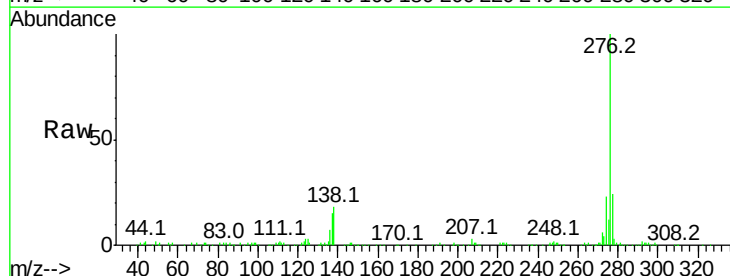


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 13.36 ng
RT: 17.36 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BF082657.D
Acq: 3 Nov 2015 12:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	17.9	13.1	19.7



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

