

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
 Data File : BF079555.D
 Acq On : 28 May 2015 20:29
 Operator : TP/IZ
 Sample : G2408-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-24D

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Quant Time: May 29 09:15:57 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 18:41:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	80213	20.00	ng	0.00
21) Naphthalene-d8	8.54	136	331469	20.00	ng	0.00
38) Acenaphthene-d10	10.71	164	161227	20.00	ng	0.00
63) Phenanthrene-d10	12.54	188	302368	20.00	ng	0.00
75) Chrysene-d12	15.82	240	314021	20.00	ng	-0.02
86) Perylene-d12	17.52	264	340535	20.00	ng	-0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	411825	89.05	ng	0.01
7) Phenol-d6	6.57	99	589197	99.96	ng	0.01
23) Nitrobenzene-d5	7.67	82	327173	57.06	ng	0.00
41) 2,4,6-Tribromophenol	11.69	330	142876	80.68	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	635897	56.27	ng	0.00
78) Terphenyl-d14	14.54	244	725894	54.25	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.57	128	109821	6.90	ng	98
37) 2-Methylnaphthalene	9.43	142	43750	3.96	ng	98
49) Dimethylphthalate	10.40	163	66295	5.58	ng	98
51) Acenaphthene	10.74	154	145567	15.42	ng	100
54) Dibenzofuran	10.96	168	152052	10.92	ng	97
57) Fluorene	11.38	166	206734	18.02	ng	99
70) Phenanthrene	12.57	178	1481281	89.30	ng	97
71) Anthracene	12.63	178	522477	31.02	ng	98
72) Carbazole	12.85	167	159734	9.85	ng	99
74) Fluoranthene	14.05	202	1660692	93.36	ng	95
77) Pyrene	14.32	202	1431357	73.57	ng	97
80) Benzo(a)anthracene	15.81	228	869936	48.16	ng	98
82) Chrysene	15.85	228	628987	36.63	ng	97
83) Bis(2-ethylhexyl)phthalate	15.87	149	52410	4.18	ng	# 98
85) Indeno(1,2,3-cd)pyrene	18.82	276	409448m	18.54	ng	
87) Benzo(b)fluoranthene	17.10	252	905818m	46.64	ng	
88) Benzo(k)fluoranthene	17.12	252	284904m	16.40	ng	
89) Benzo(a)pyrene	17.46	252	650583	37.90	ng	97
90) Dibenzo(a,h)anthracene	18.82	278	109206m	4.77	ng	
91) Benzo(a,h,i)perylene	19.19	276	368189	20.01	ng	100

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

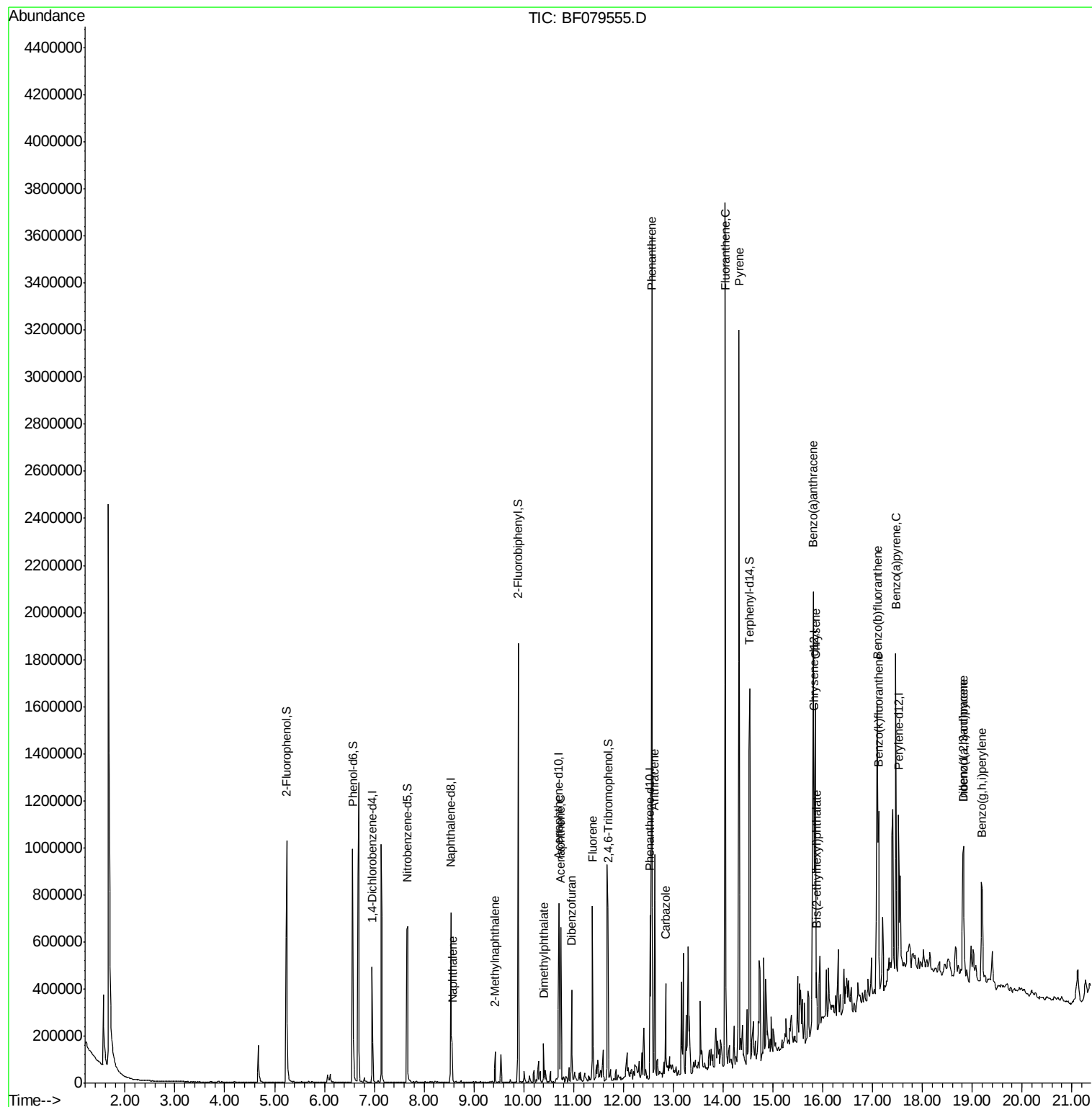
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.96 min Scan# 505

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

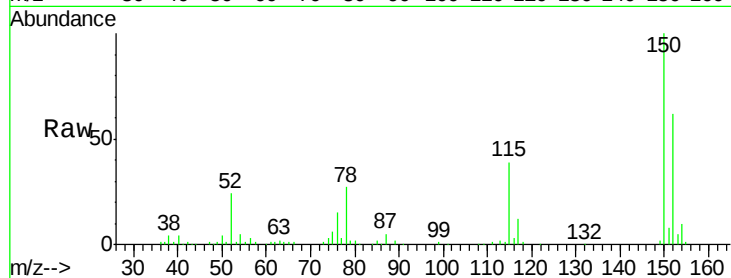
ClientSampleId :

SB-24D

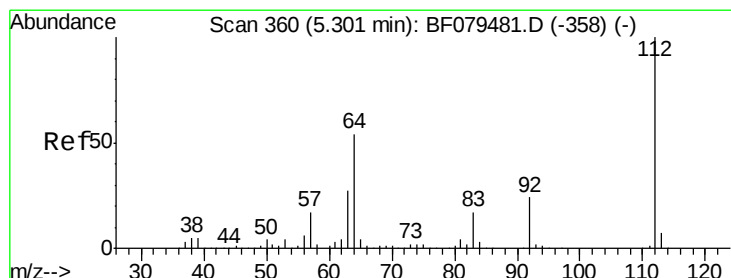
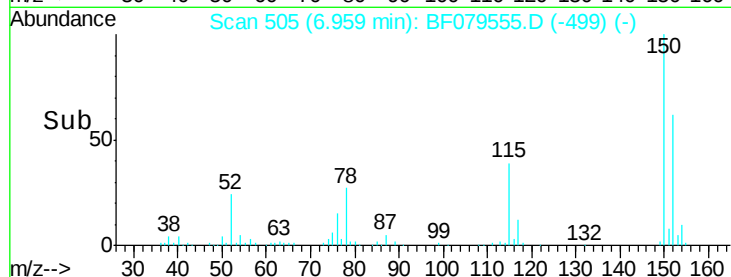
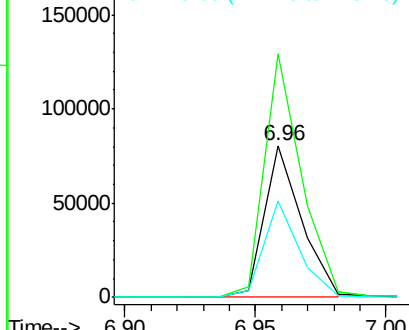
Tot Ion:	152	Resp:	80213
Ion Ratio	Lower	Upper	
152	100		
150	160.5	124.0	186.0
115	63.3	49.6	74.4

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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: 89.05 ng

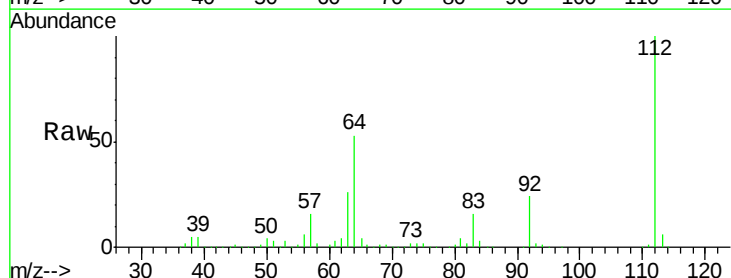
RT: 5.24 min Scan# 355

Delta R.T. 0.01 min

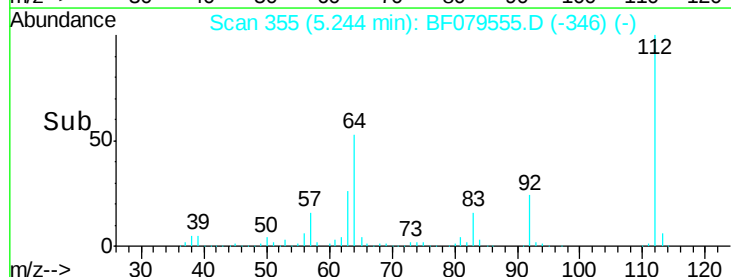
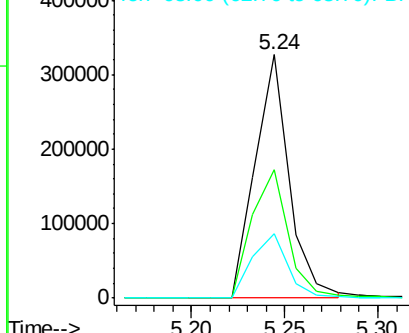
Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion:	112	Resp:	411825
Ion Ratio	Lower	Upper	
112	100		
64	52.8	43.5	65.3
63	26.2	21.8	32.8



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: 99.96 ng

RT: 6.57 min Scan# 471

Delta R.T. 0.01 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

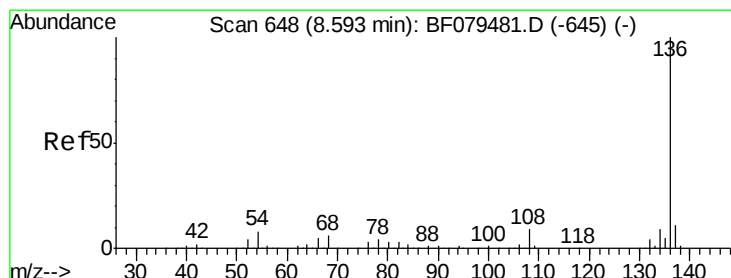
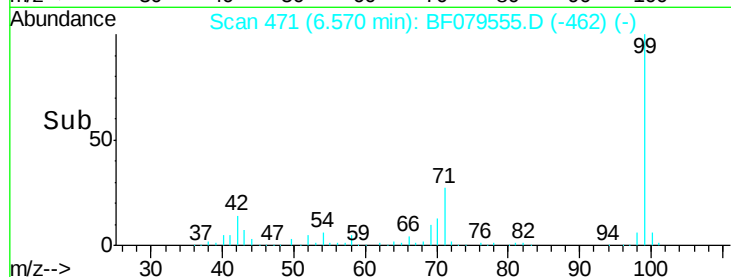
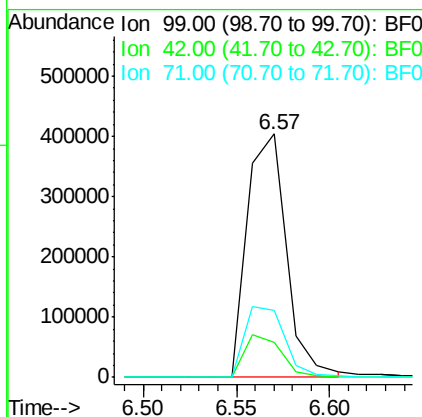
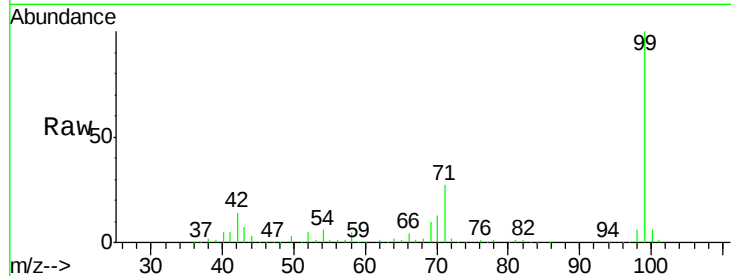
ClientSampled :

SB-24D

Tot Ion:	99	Resp:	589197
Ion Ratio	Lower	Upper	
99	100		
42	14.2	11.9	17.9
71	27.3	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

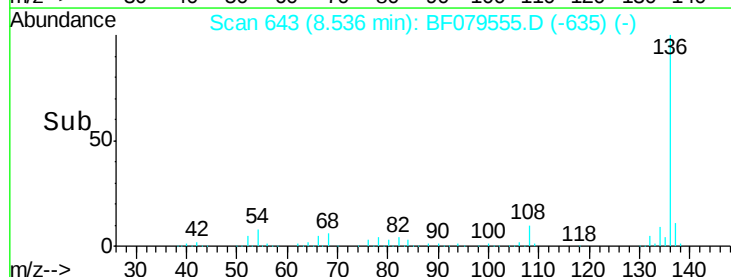
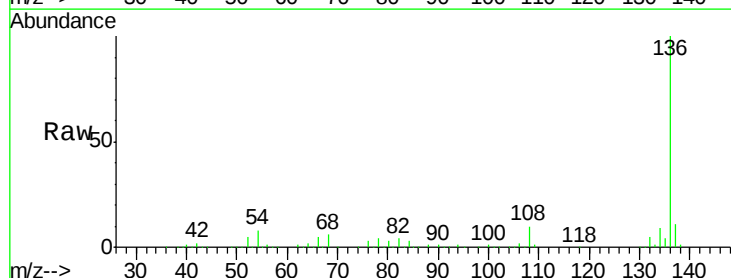
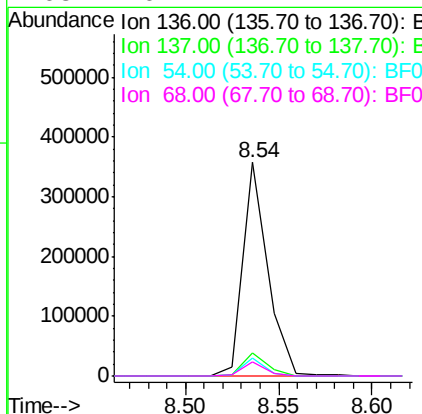
RT: 8.54 min Scan# 643

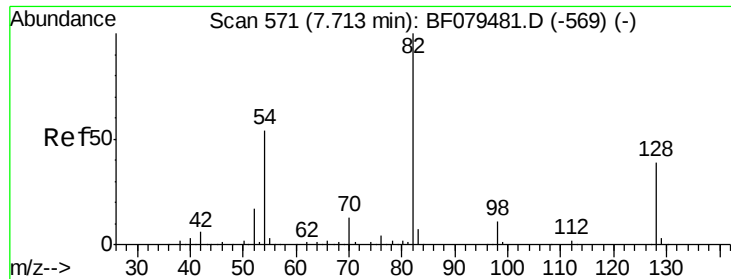
Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion:	136	Resp:	331469
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.5	12.7
54	8.3	6.6	9.8
68	6.4	4.7	7.1





#23

Nitrobenzene-d5

Concen: 57.06 ng

RT: 7.67 min Scan# 567

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

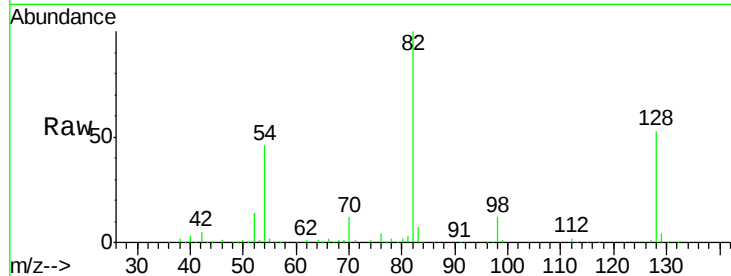
ClientSampleId :

SB-24D

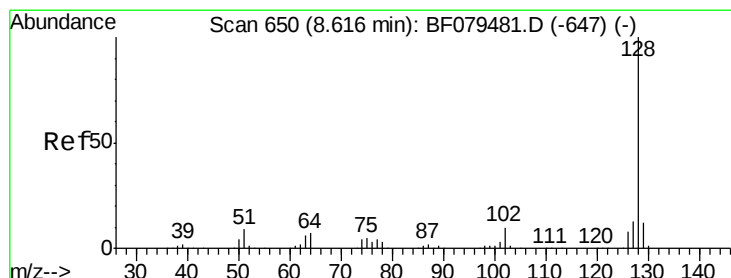
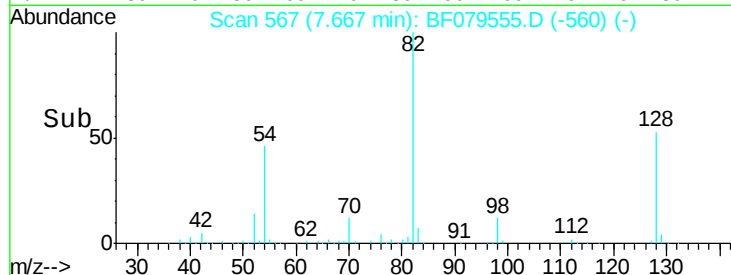
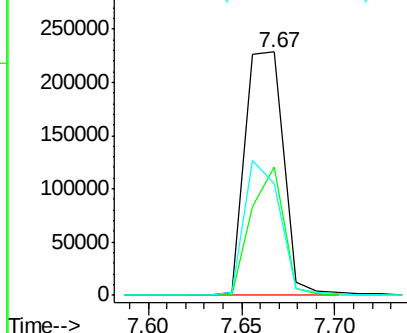
Tot Ion:	82	Resp:	327173
Ion Ratio	Lower	Upper	
82	100		
128	52.7	30.8	46.2#
54	46.1	42.8	64.2

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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 6.90 ng

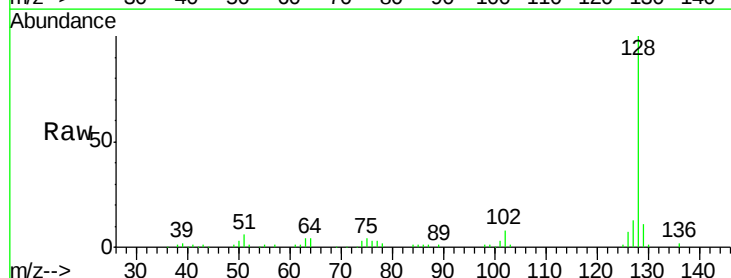
RT: 8.57 min Scan# 646

Delta R.T. -0.00 min

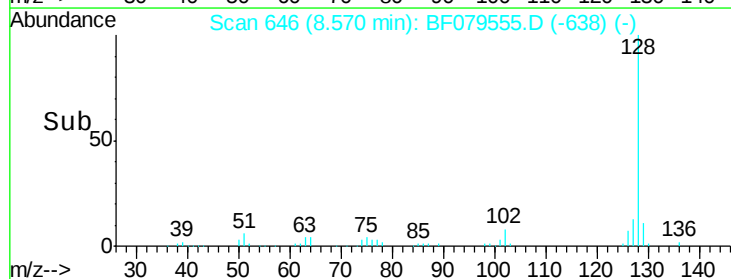
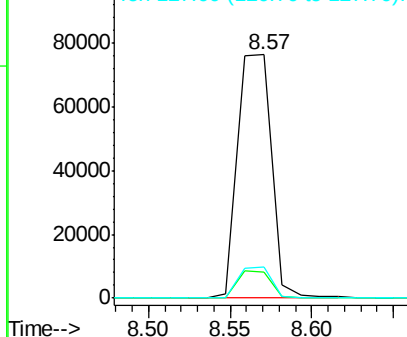
Lab File: BF079555.D

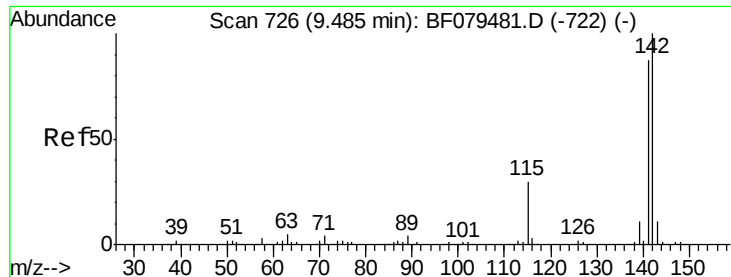
Acq: 28 May 2015 20:29

Tgt Ion:	128	Resp:	109821
Ion Ratio	Lower	Upper	
128	100		
129	10.5	9.3	13.9
127	12.9	10.6	15.8



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





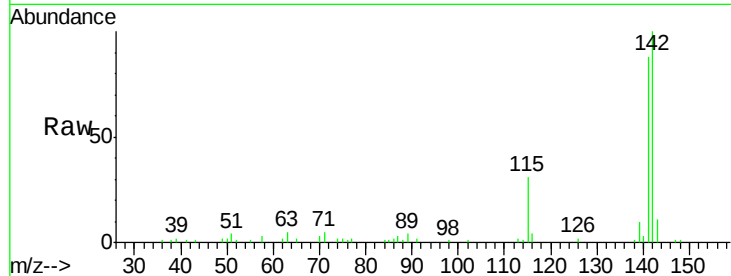
#37
2-Methylnaphthalene
Concen: 3.96 ng
RT: 9.43 min Scan# 721
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampled :
SB-24D

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	69.5	104.3
115	30.8	23.8	35.6

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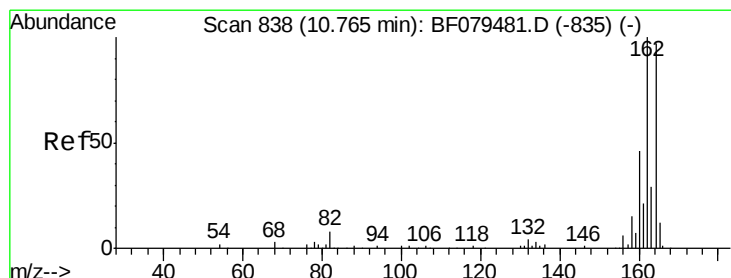
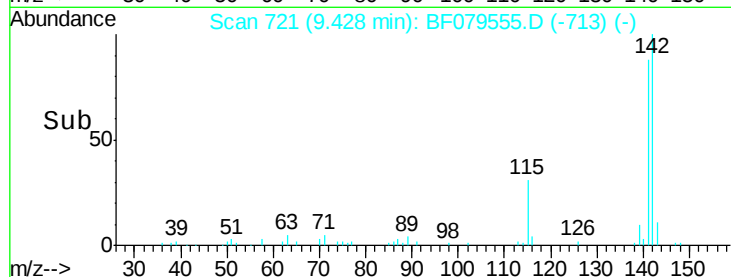
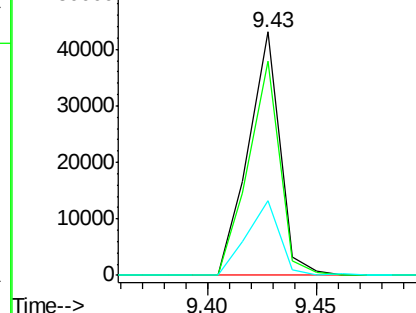


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.71 min Scan# 833
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

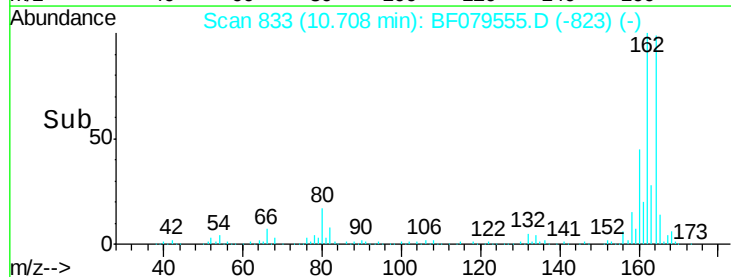
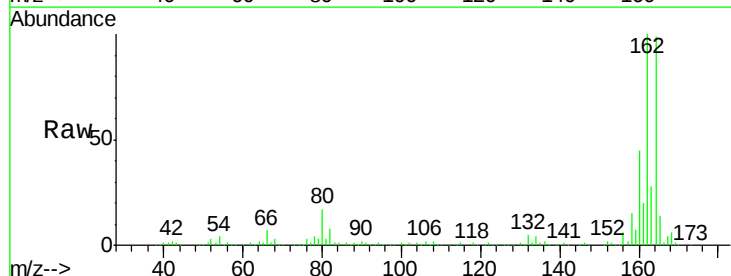
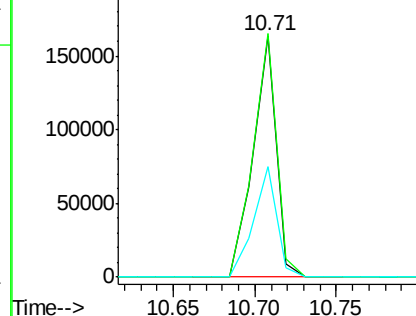
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.6	124.0
160	45.6	37.7	56.5

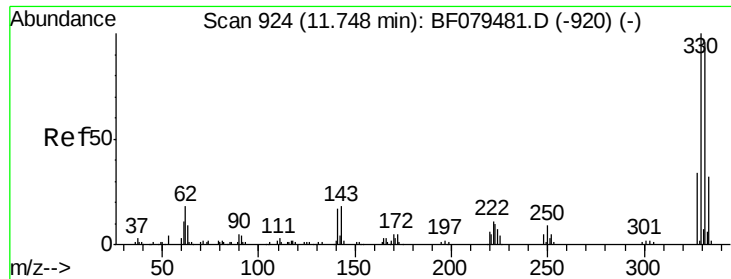
Abundance

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





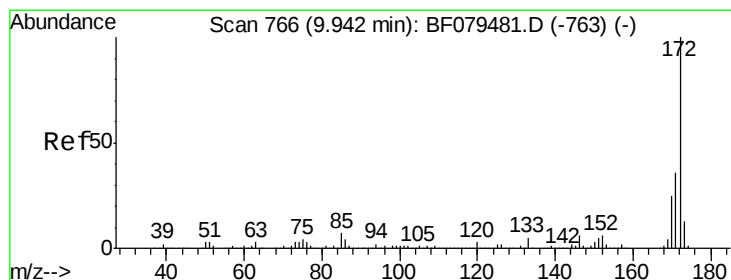
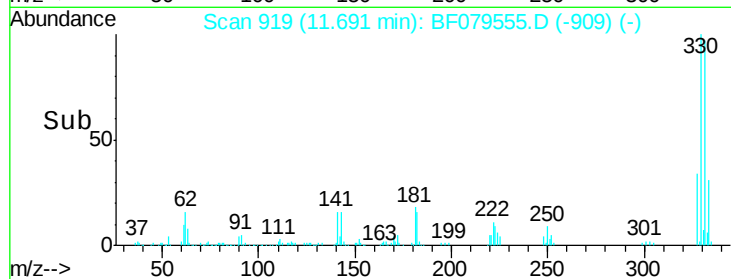
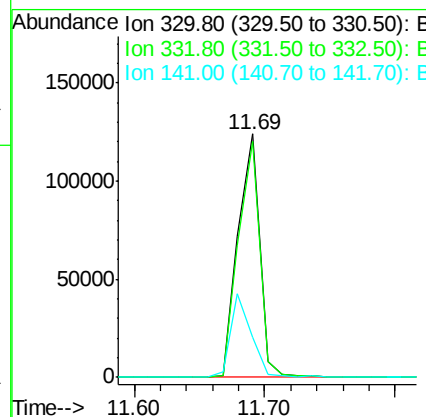
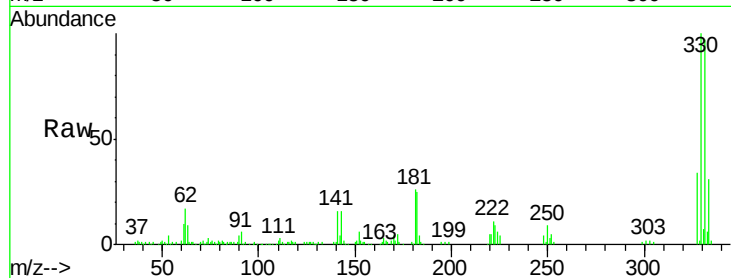
#41
 2,4,6-Tribromophenol
 Concen: 80.68 ng
 RT: 11.69 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

Instrument :
 BNA_F
 ClientSampleId :
 SB-24D

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.0	0.0	0.0#
141	33.3	0.0	0.0#

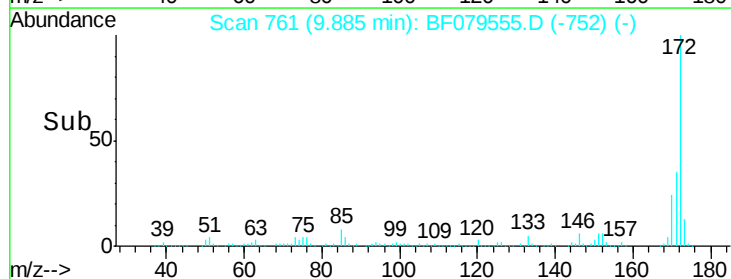
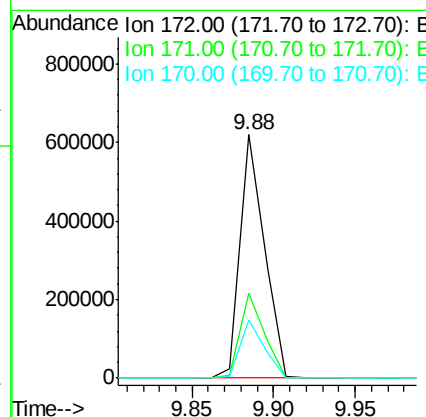
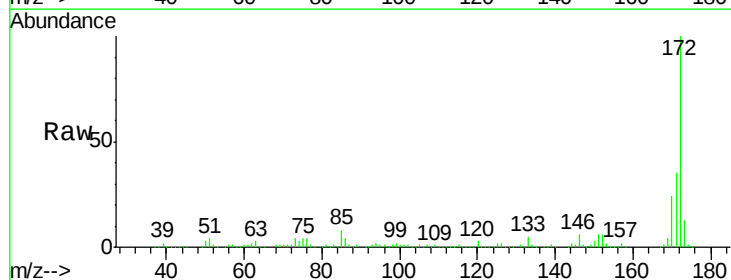
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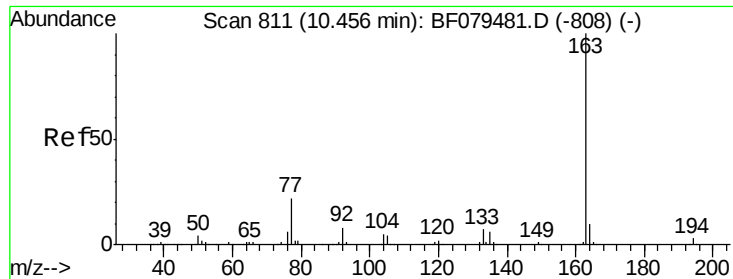
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#44
 2-Fluorobiphenyl
 Concen: 56.27 ng
 RT: 9.88 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.0	28.5	42.7
170	23.8	19.7	29.5





#49

Dimethylphthalate

Concen: 5.58 ng

RT: 10.40 min Scan# 806

Delta R.T. -0.01 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

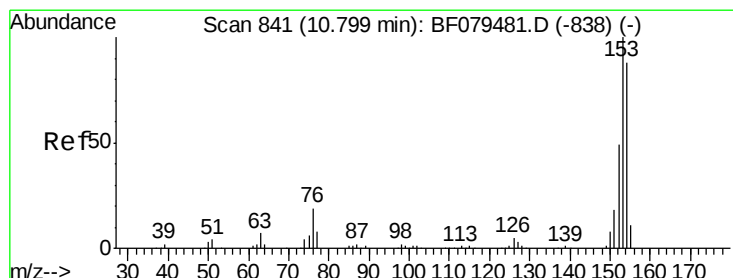
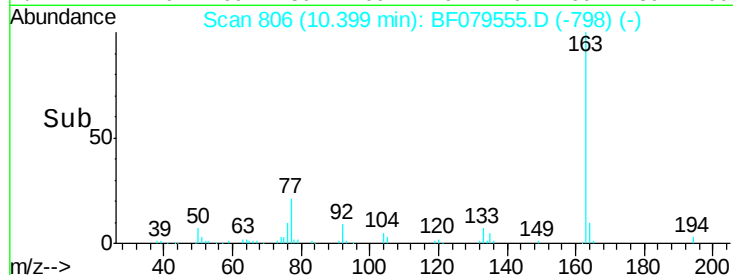
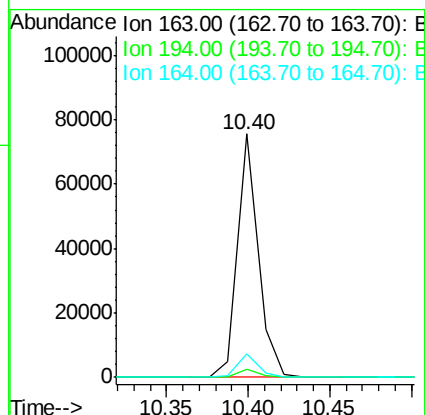
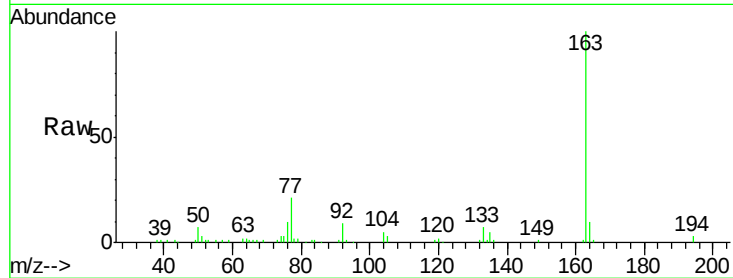
ClientSampled :

SB-24D

Tot Ion:	163	Resp:	66295
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.4	3.6
164	9.6	8.2	12.4

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#51

Acenaphthene

Concen: 15.42 ng

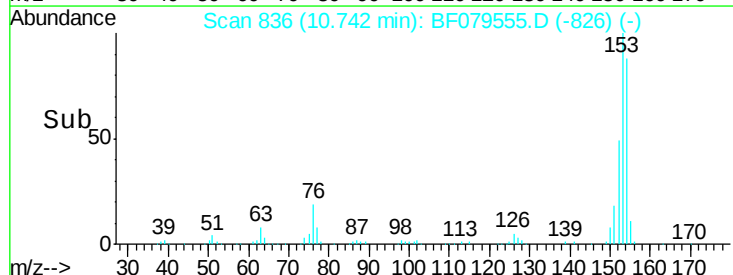
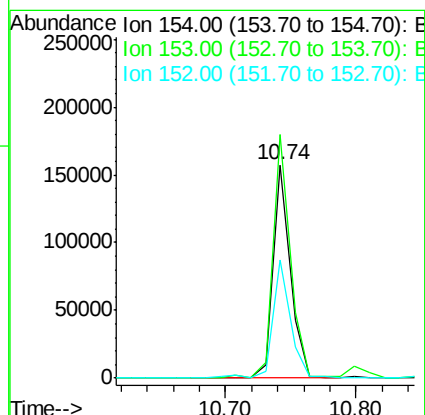
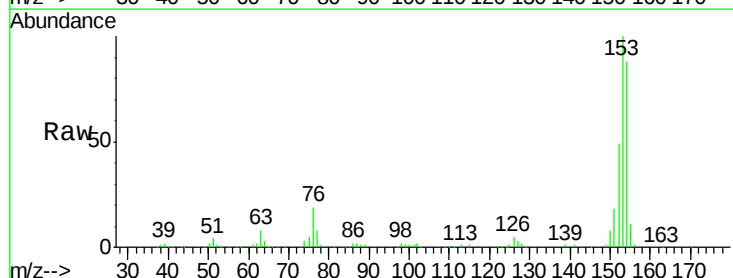
RT: 10.74 min Scan# 836

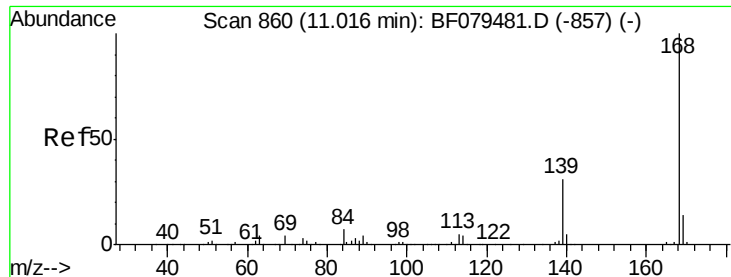
Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion:	154	Resp:	145567
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.1	136.7
152	55.6	44.6	66.8





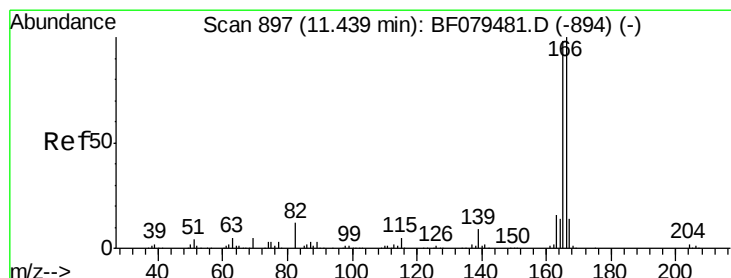
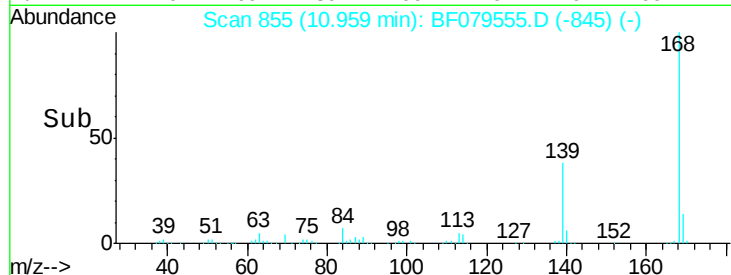
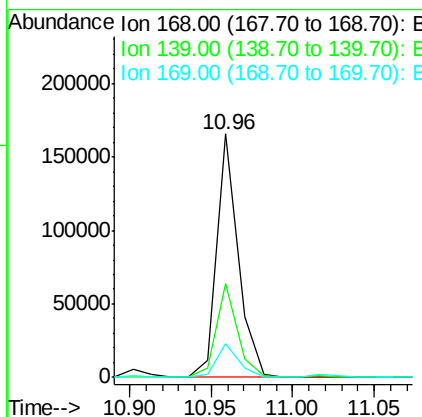
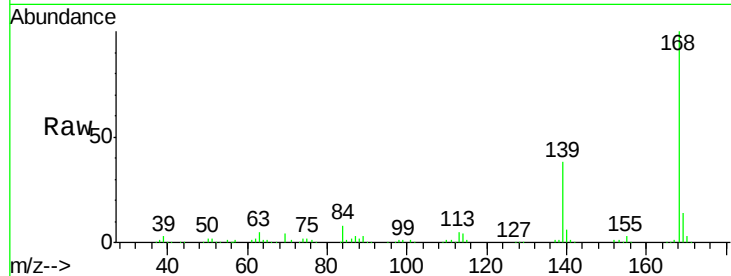
#54
Dibenzenofuran
Concen: 10.92 ng
RT: 10.96 min Scan# 855
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampleId :
SB-24D

Tot Ion	Ratio	Resp	Lower	Upper
168	100	152052		
139	38.5		32.9	49.3
169	13.7		11.1	16.7

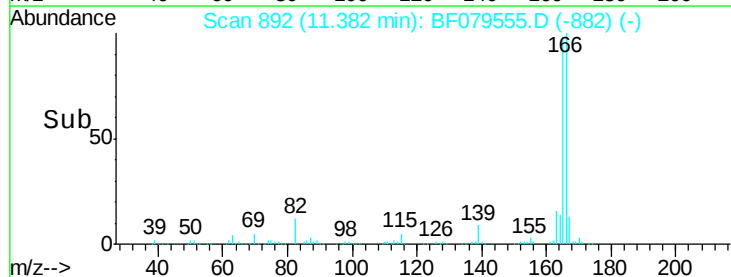
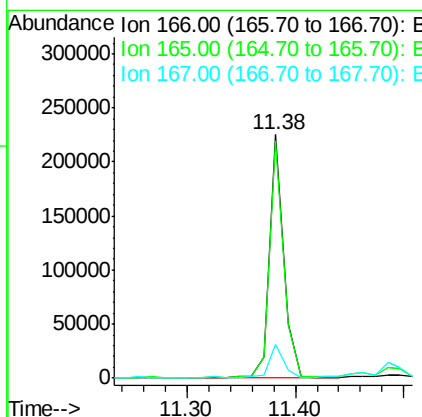
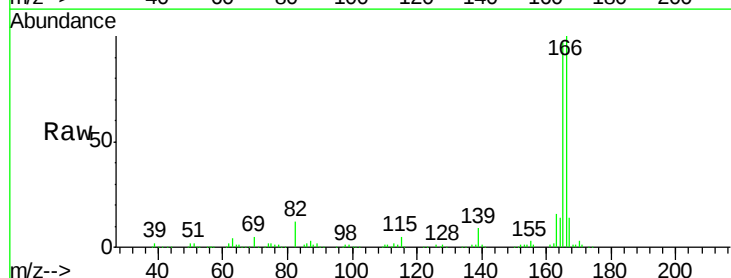
Manual Integrations
APPROVED

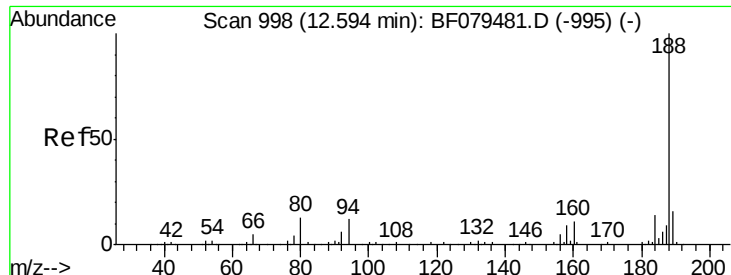
apatel
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#57
Fluorene
Concen: 18.02 ng
RT: 11.38 min Scan# 892
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	206734		
165	97.4		78.6	117.8
167	13.9		10.8	16.2





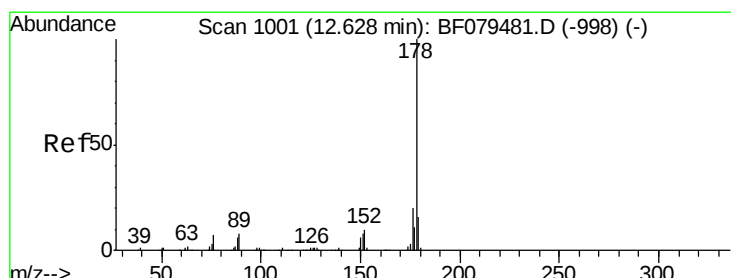
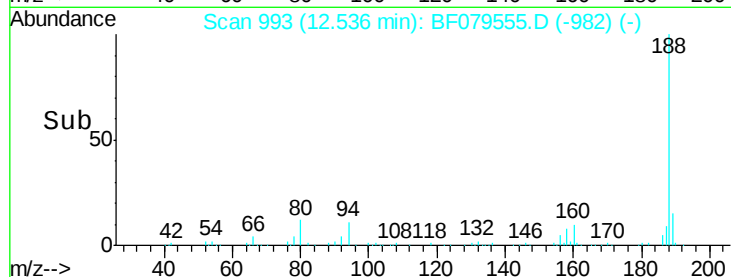
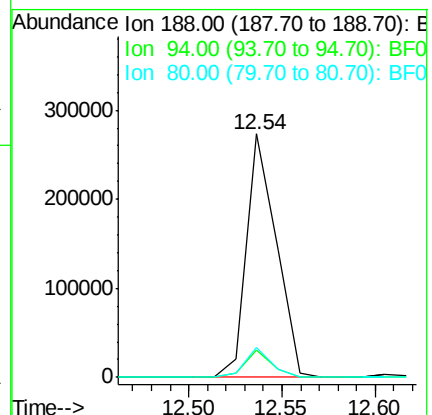
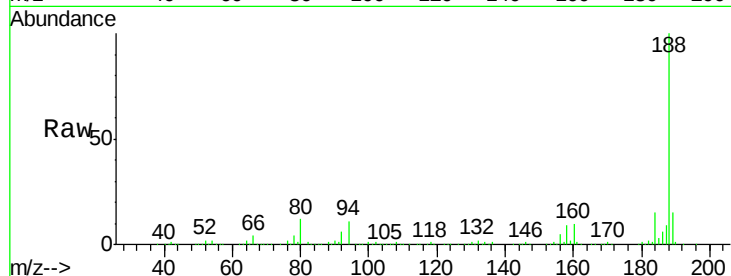
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.54 min Scan# 993
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampleId :
SB-24D

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.3	9.8	14.6
80	12.3	10.5	15.7

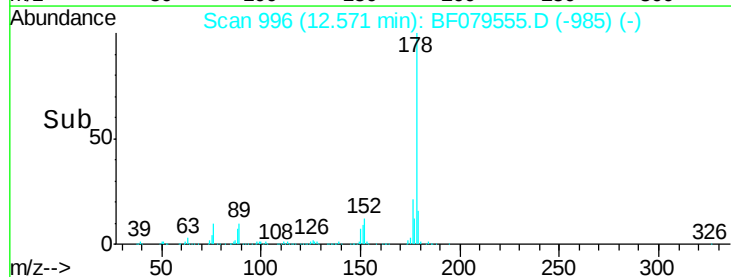
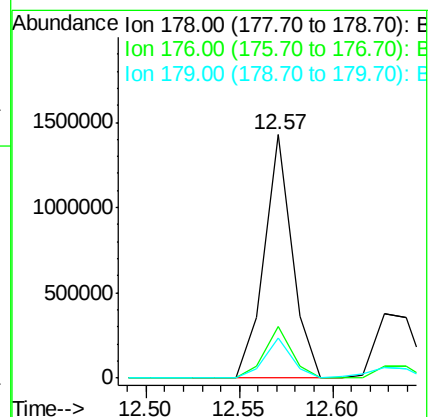
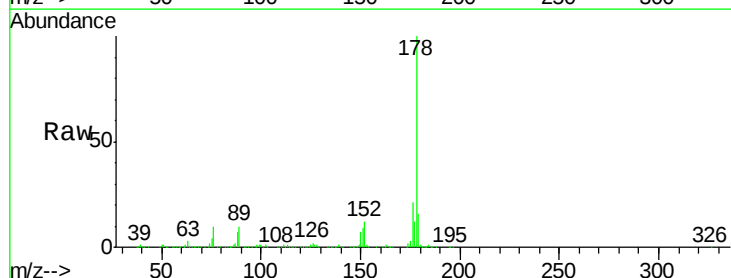
Manual Integrations
APPROVED

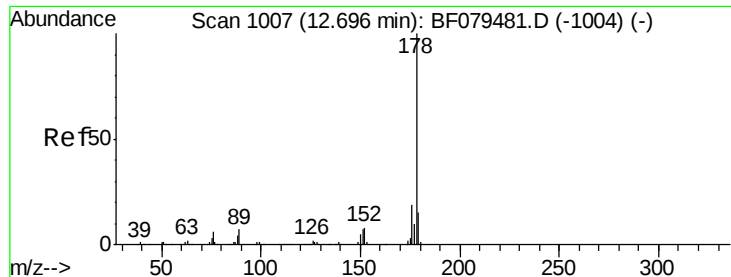
apatel
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#70
Phenanthrene
Concen: 89.30 ng
RT: 12.57 min Scan# 996
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	21.3	15.7	23.5
179	16.4	12.4	18.6





#71

Anthracene

Concen: 31.02 ng

RT: 12.63 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

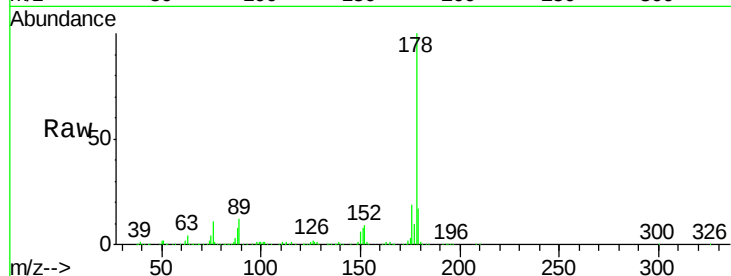
ClientSampleId :

SB-24D

Tot Ion:	178	Resp:	522477
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.3	22.9
179	16.7	12.2	18.4

Manual Integrations
APPROVED

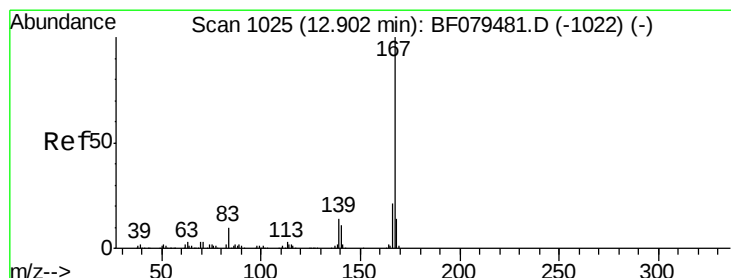
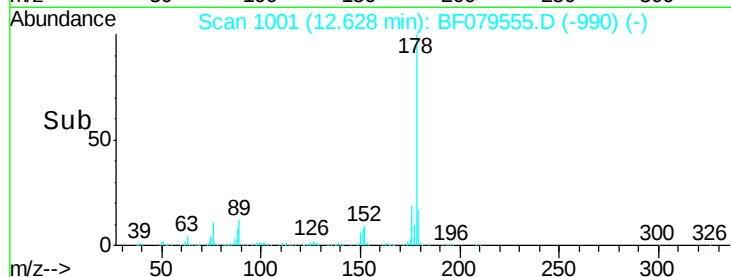
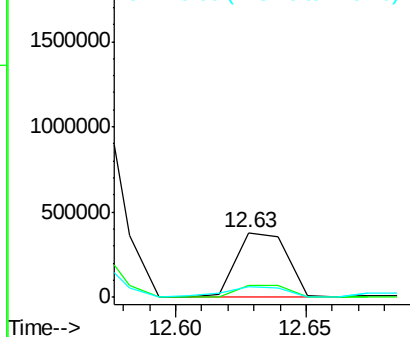
apatel
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 9.85 ng

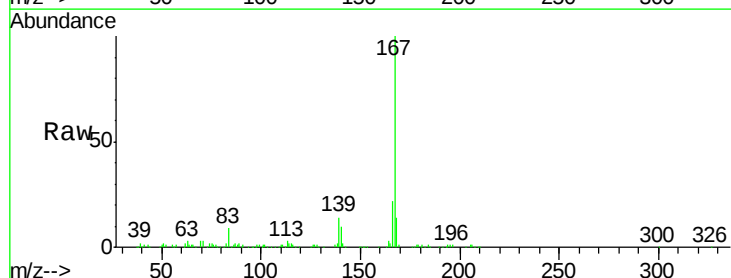
RT: 12.85 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

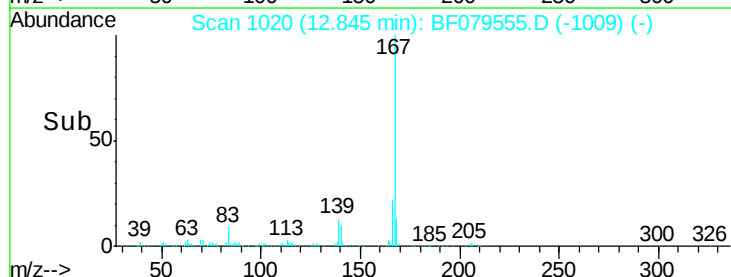
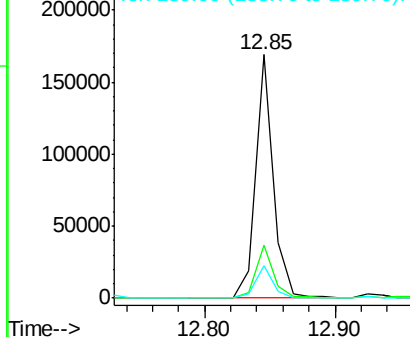
Tgt Ion:	167	Resp:	159734
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.0	25.4
139	13.5	11.2	16.8

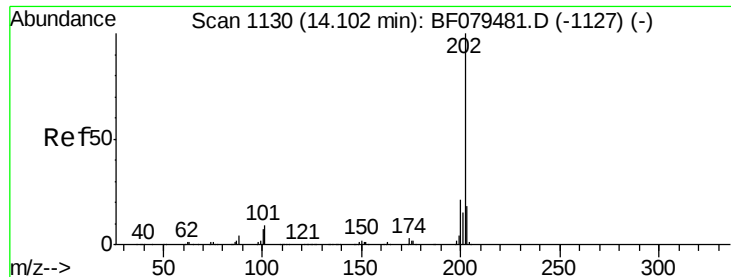


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 93.36 ng

RT: 14.05 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

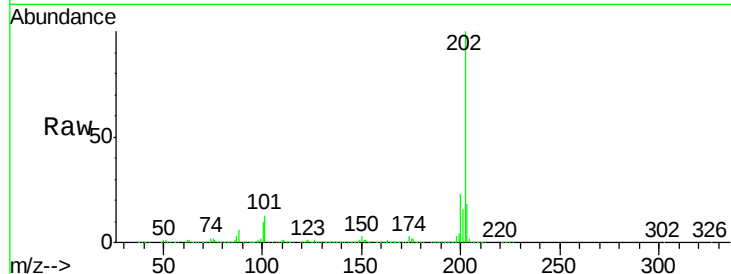
ClientSampleId :

SB-24D

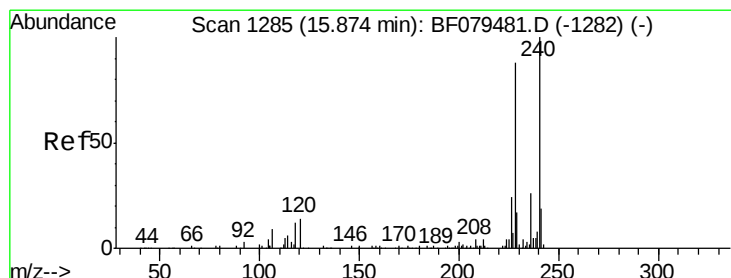
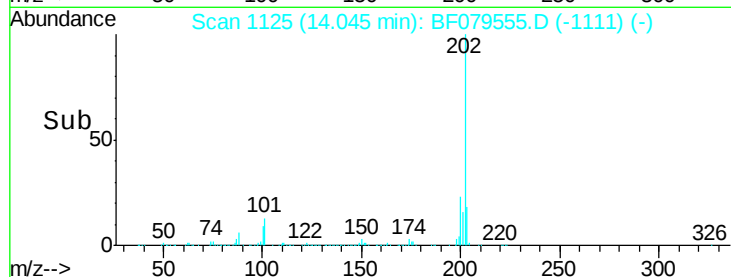
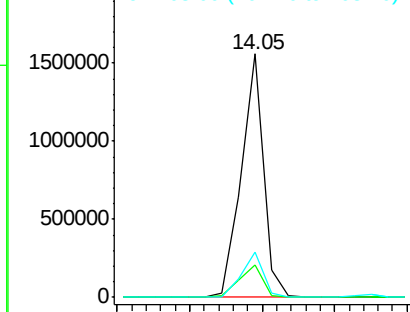
Tot Ion:	202	Resp:	1660692
Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	29.3
203	18.4	0.0	37.6

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

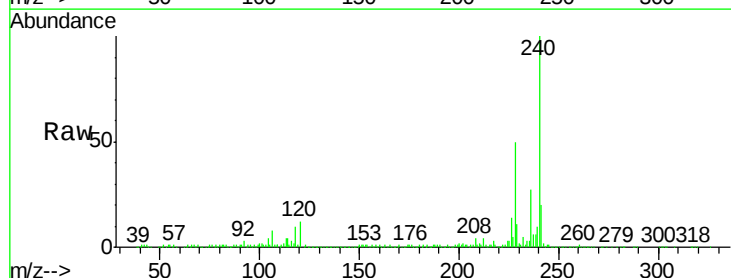
RT: 15.82 min Scan# 1280

Delta R.T. -0.02 min

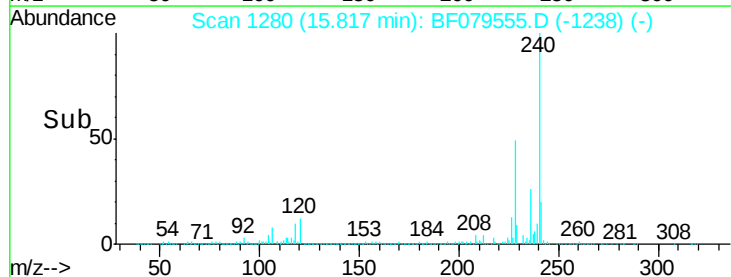
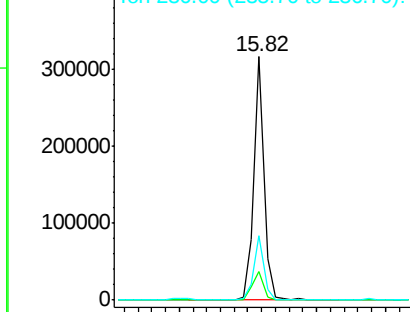
Lab File: BF079555.D

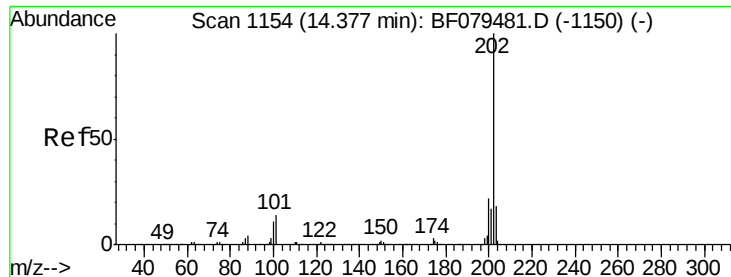
Acq: 28 May 2015 20:29

Tgt Ion:	240	Resp:	314021
Ion	Ratio	Lower	Upper
240	100		
120	11.9	10.8	16.2
236	26.5	21.0	31.6



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: 73.57 ng

RT: 14.32 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

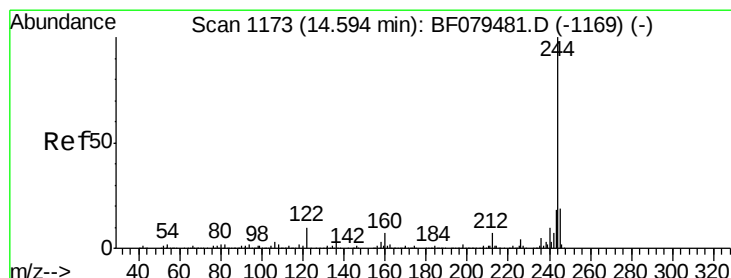
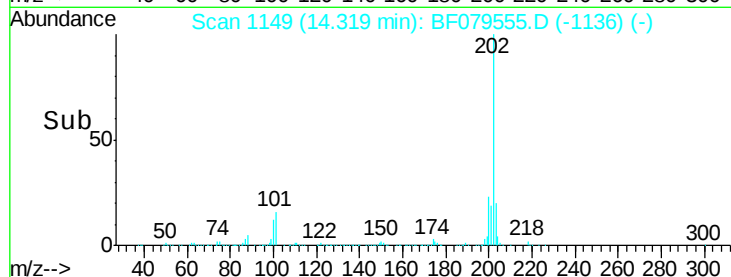
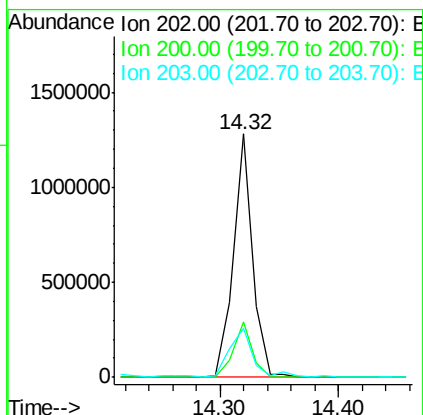
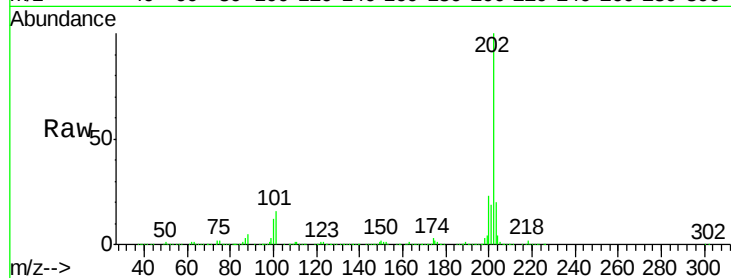
ClientSampleId :

SB-24D

Tot Ion:	202	Resp:	1431357
Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.5	26.3
203	20.4	14.4	21.6

Manual Integrations
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#78

Terphenyl-d14

Concen: 54.25 ng

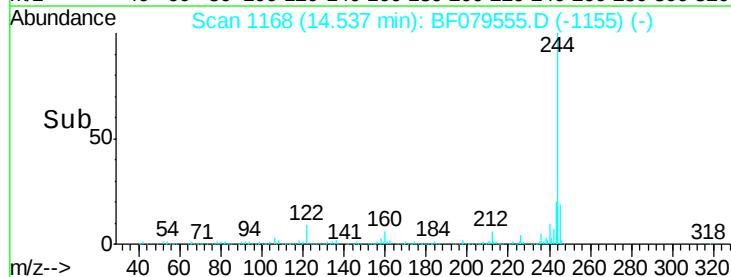
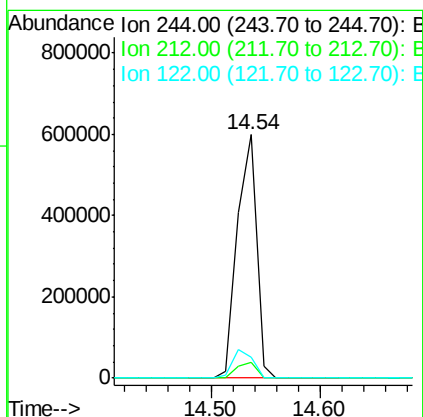
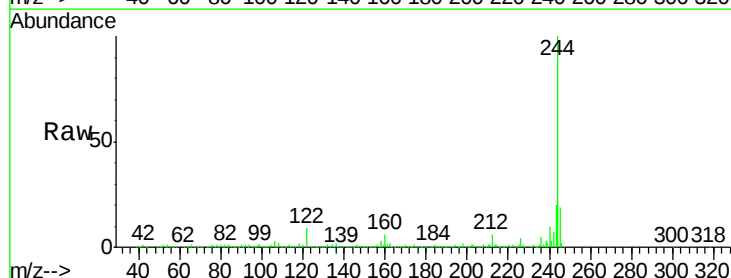
RT: 14.54 min Scan# 1168

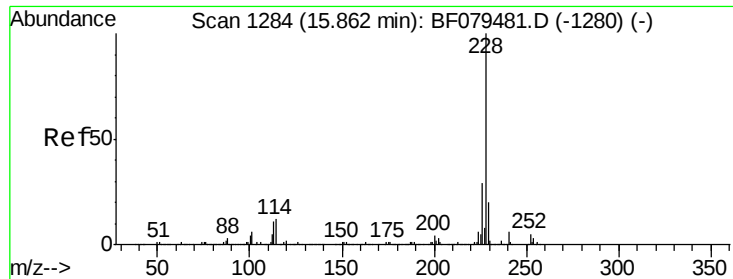
Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion:	244	Resp:	725894
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	8.8	8.0	12.0





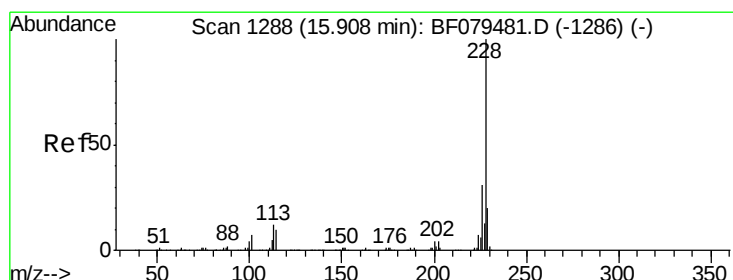
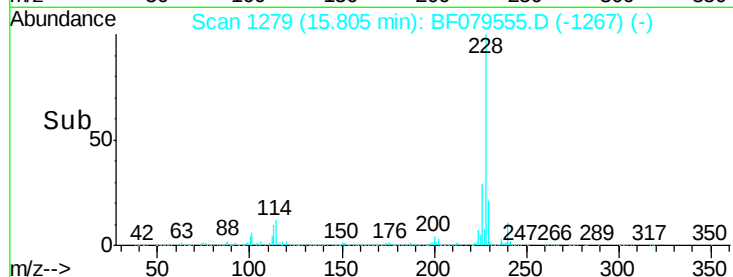
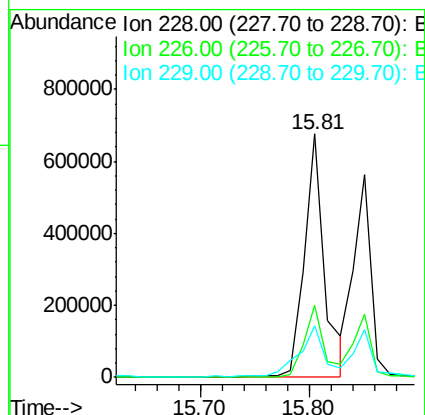
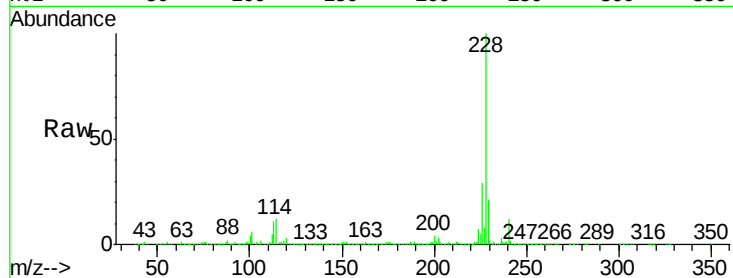
#80
Benzo(a)anthracene
Concen: 48.16 ng
RT: 15.81 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampleId :
SB-24D

Tot Ion:	228	Resp:	869936
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.8	34.2
229	21.1	15.9	23.9

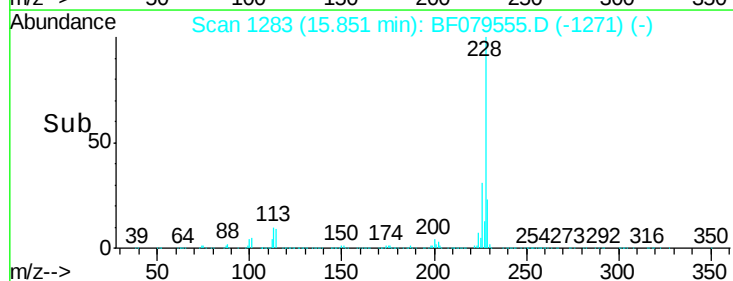
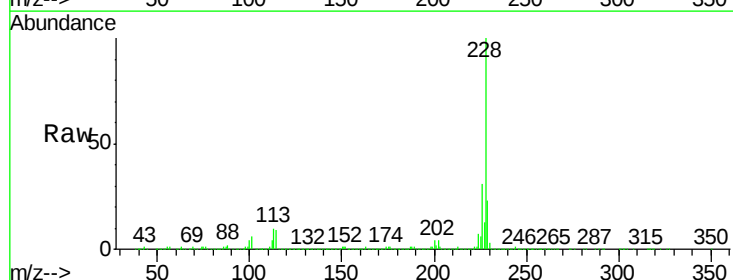
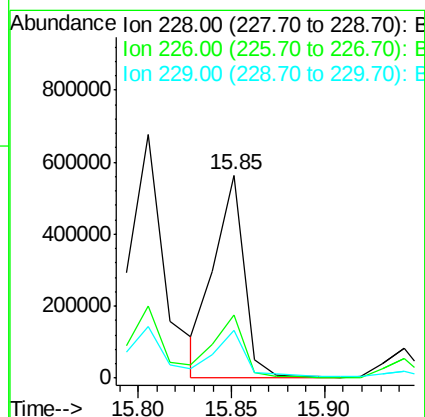
Manual Integrations
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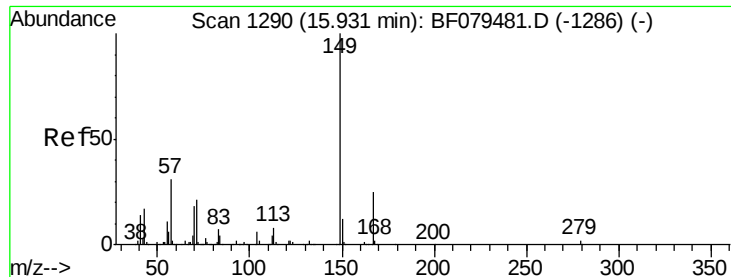
apatel
5/29/2015 5:12:50 PM



#82
Chrysene
Concen: 36.63 ng
RT: 15.85 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion:	228	Resp:	628987
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.4
229	23.3	15.9	23.9





#83

Bis(2-ethylhexyl)phthalate

Concen: 4.18 ng

RT: 15.87 min Scan# 1285

Delta R.T. -0.03 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

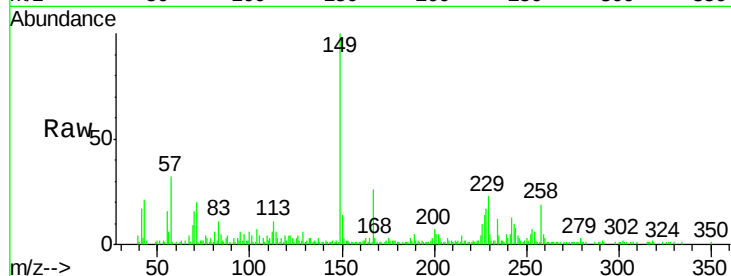
ClientSampleId :

SB-24D

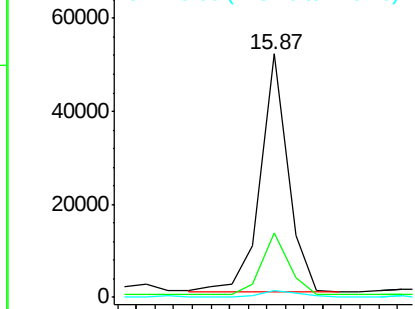
Tot Ion:	149	Resp:	52410
Ion Ratio	Lower	Upper	
149	100		
167	26.3	20.2	30.4
279	3.1	2.0	3.0#

Manual Integrations
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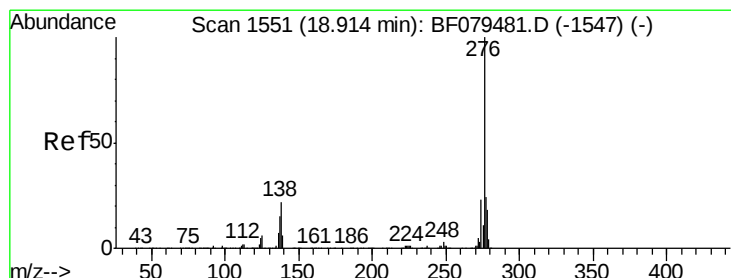
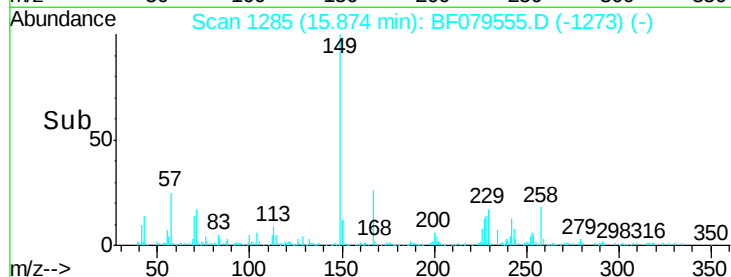
apatel
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 18.54 ng m

RT: 18.82 min Scan# 1543

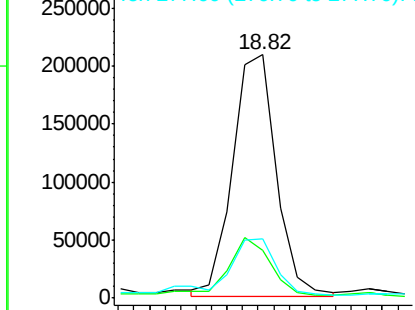
Delta R.T. -0.19 min

Lab File: BF079555.D

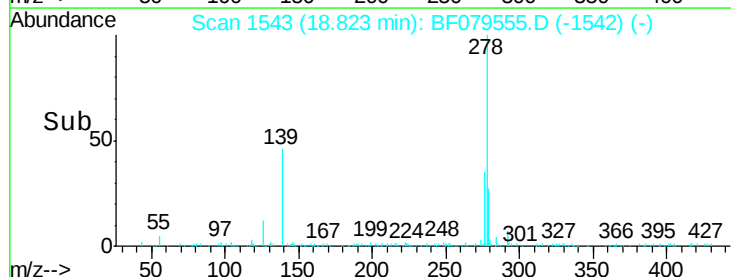
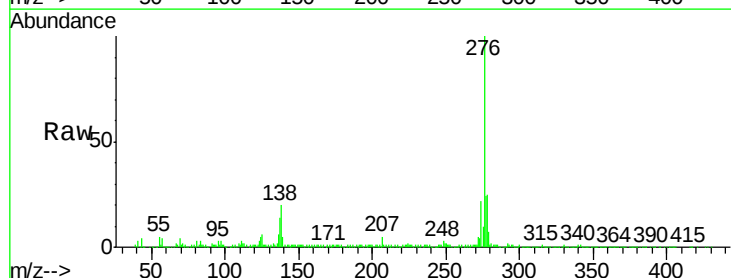
Acq: 28 May 2015 20:29

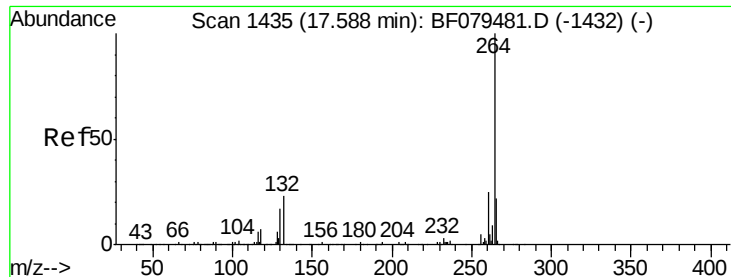
Tgt Ion:	276	Resp:	409448
Ion Ratio	Lower	Upper	
276	100		
138	3.1	21.4	32.2#
277	2.2	19.8	29.6#

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



Time-->





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.52 min Scan# 1429

Delta R.T. -0.15 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_F

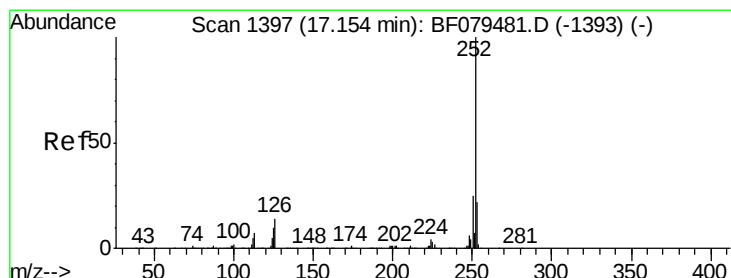
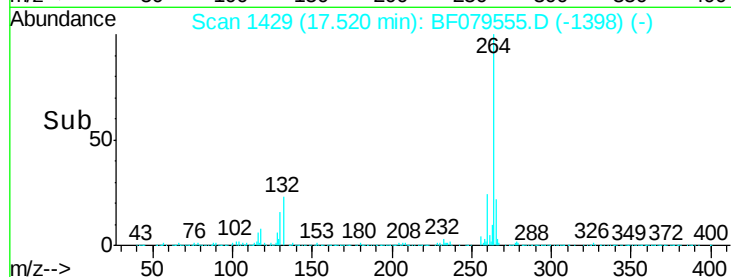
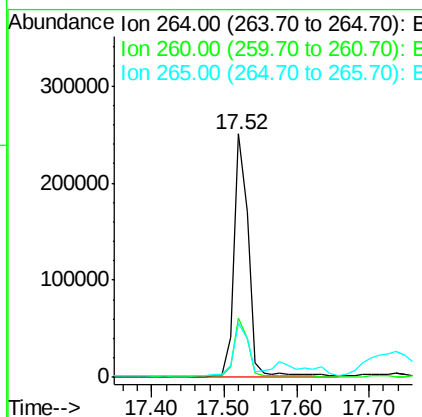
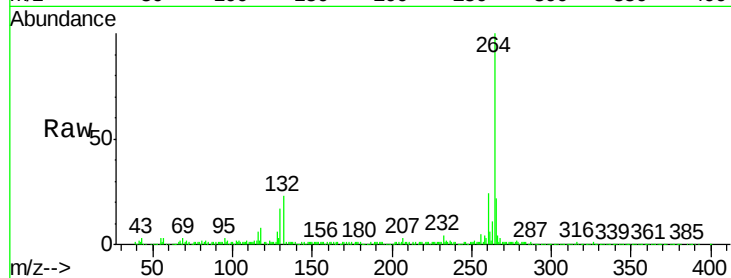
ClientSampleId :

SB-24D

Tot Ion:	264	Resp:	340535
Ion Ratio		Lower	Upper
264	100		
260	24.4	19.8	29.8
265	22.5	17.8	26.6

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 46.64 ng m

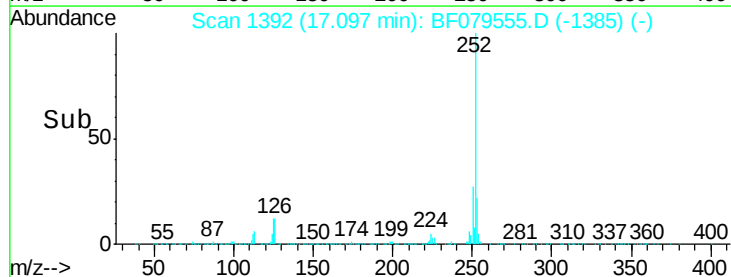
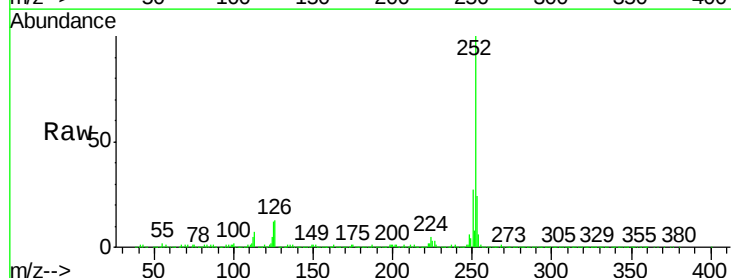
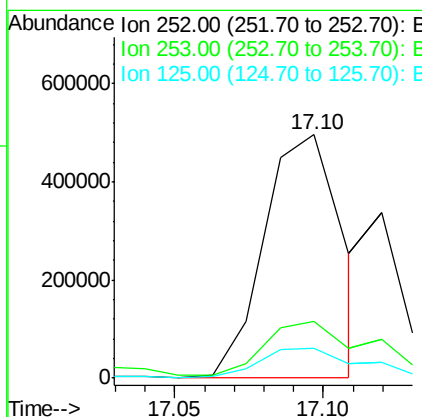
RT: 17.10 min Scan# 1392

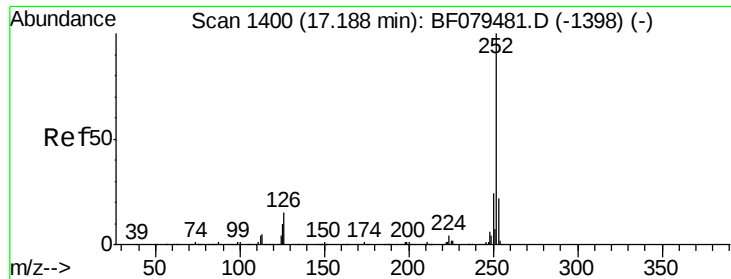
Delta R.T. -0.10 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion:	252	Resp:	905818
Ion Ratio		Lower	Upper
252	100		
253	23.5	17.6	26.4
125	12.3	7.8	11.6#





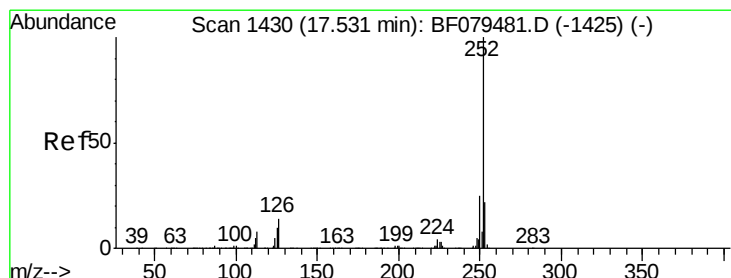
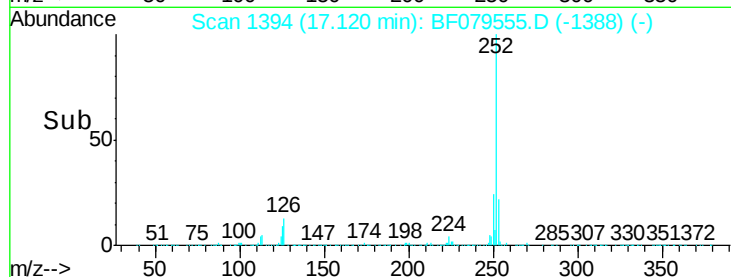
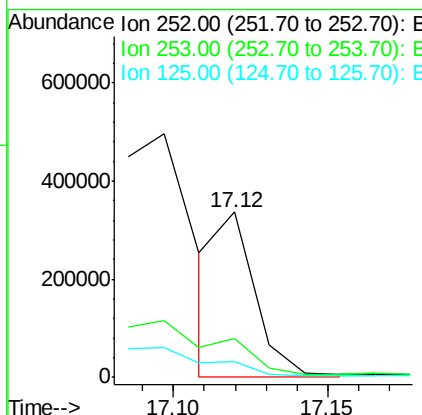
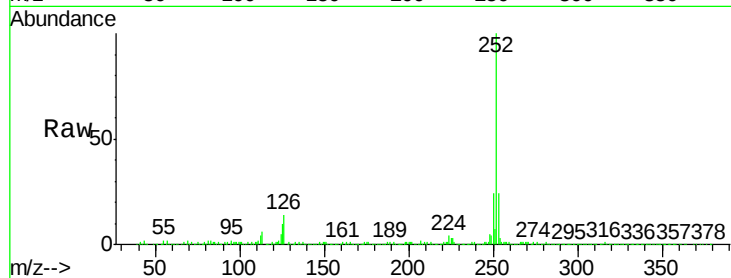
#88
Benzo(k)fluoranthene
Concen: 16.40 ng m
RT: 17.12 min Scan# 1394
Delta R.T. -0.11 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampleId :
SB-24D

Tot Ion	Ratio	Resp	Lower	Upper
252	100	284904		
253	23.6	17.2	25.8	
125	9.6	6.8	10.2	

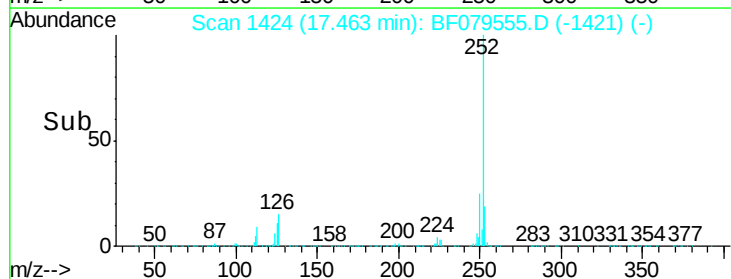
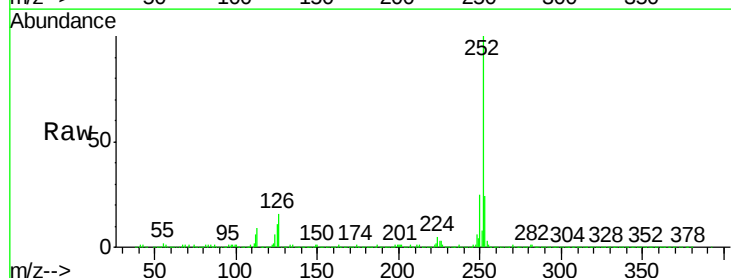
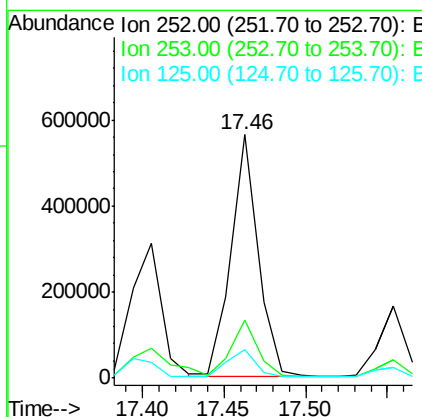
Manual Integrations
APPROVED

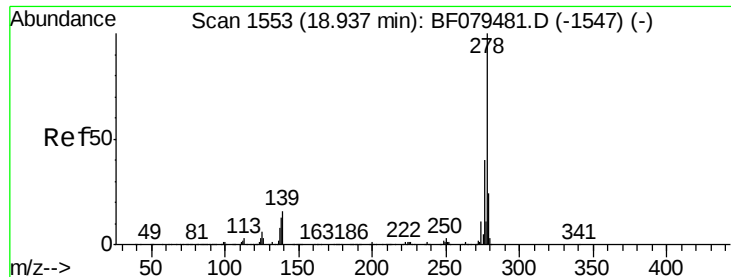
apatel
5/29/2015 5:12:50 PM



#89
Benzo(a)pyrene
Concen: 37.90 ng
RT: 17.46 min Scan# 1424
Delta R.T. -0.15 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	650583		
253	23.6	17.8	26.8	
125	11.5	7.9	11.9	





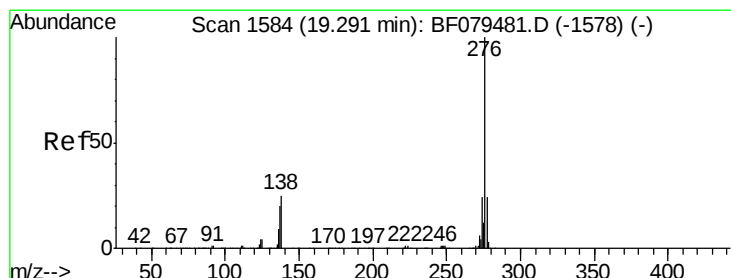
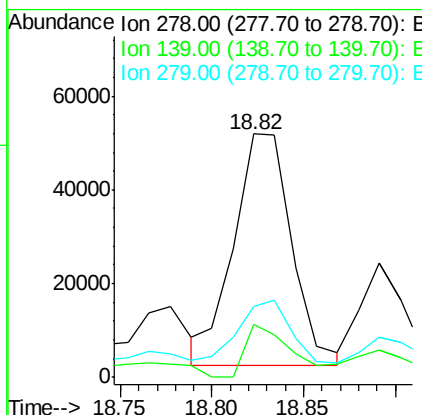
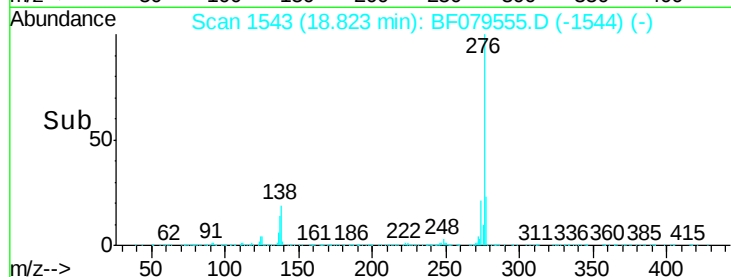
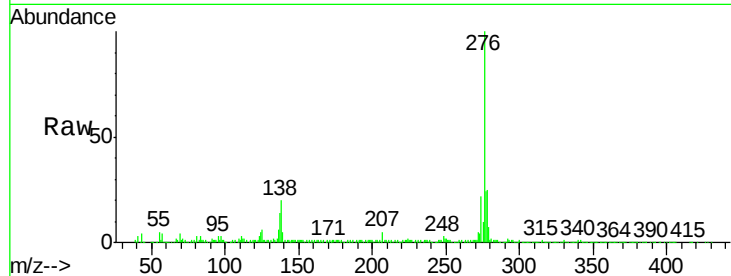
#90
Dibenzo(a,h)anthracene
Concen: 4.77 ng/mL
RT: 18.82 min Scan# 1543
Delta R.T. -0.22 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Instrument :
BNA_F
ClientSampleId :
SB-24D

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.7	12.8	19.2
279	29.0	19.1	28.7

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:50 PM



#91
Benzo(g,h,i)perylene
Concen: 20.01 ng/mL
RT: 19.19 min Scan# 1575
Delta R.T. -0.22 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
138	25.4	20.1	30.1

