

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
 Data File : BF087084.D
 Acq On : 16 May 2016 16:32
 Operator : UM/SJ
 Sample : H2994-09RE
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1772-00(0-2)RE

Manual Integrations
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Quant Time: May 17 12:59:39 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 01:12:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	140162	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	508216	20.00	ng	0.00
38) Acenaphthene-d10	9.64	164	212578	20.00	ng	0.00
63) Phenanthrene-d10	11.12	188	318239	20.00	ng	0.00
75) Chrysene-d12	13.76	240	260758	20.00	ng	0.00
86) Perylene-d12	15.12	264	240218	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	761621	92.02	ng	0.00
7) Phenol-d6	6.28	99	1113235	100.64	ng	0.00
23) Nitrobenzene-d5	7.18	82	760077	75.10	ng	-0.01
41) 2,4,6-Tribromophenol	10.43	330	170587	75.80	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	1029132	81.36	ng	-0.01
78) Terphenyl-d14	12.71	244	646937	52.64	ng	0.00
Target Compounds						
22) Acetophenone	7.00	105	27993	2.33	ng	Qvalue # 56
31) Naphthalene	7.92	128	448046	17.60	ng	99
37) 2-Methylnaphthalene	8.60	142	261477m	17.57	ng	
45) 1,1'-Biphenyl	9.07	154	36003	2.13	ng	98
48) Acenaphthylene	9.51	152	474444	24.35	ng	98
49) Dimethylphthalate	9.38	163	104342	6.43	ng	98
54) Dibenzofuran	9.85	168	121345	7.80	ng	# 97
70) Phenanthrene	11.14	178	409056	24.09	ng	99
71) Anthracene	11.20	178	395338	22.76	ng	99
72) Carbazole	11.36	167	155139	10.39	ng	97
74) Fluoranthene	12.34	202	1449967	83.01	ng	90
77) Pyrene	12.56	202	1303305	65.28	ng	99
80) Benzo(a)anthracene	13.75	228	966715m	66.04	ng	
82) Chrysene	13.78	228	719790	48.34	ng	96
85) Indeno(1,2,3-cd)pyrene	16.39	276	472008	38.10	ng	# 88
87) Benzo(b)fluoranthene	14.77	252	1430529m	91.63	ng	
88) Benzo(k)fluoranthene	14.78	252	276916m	21.66	ng	
89) Benzo(a)pyrene	15.07	252	623730	46.32	ng	96
90) Dibenzo(a,h)anthracene	16.39	278	133953m	11.80	ng	
91) Benzo(a,h,i)perylene	16.77	276	394078	34.17	ng	# 90

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

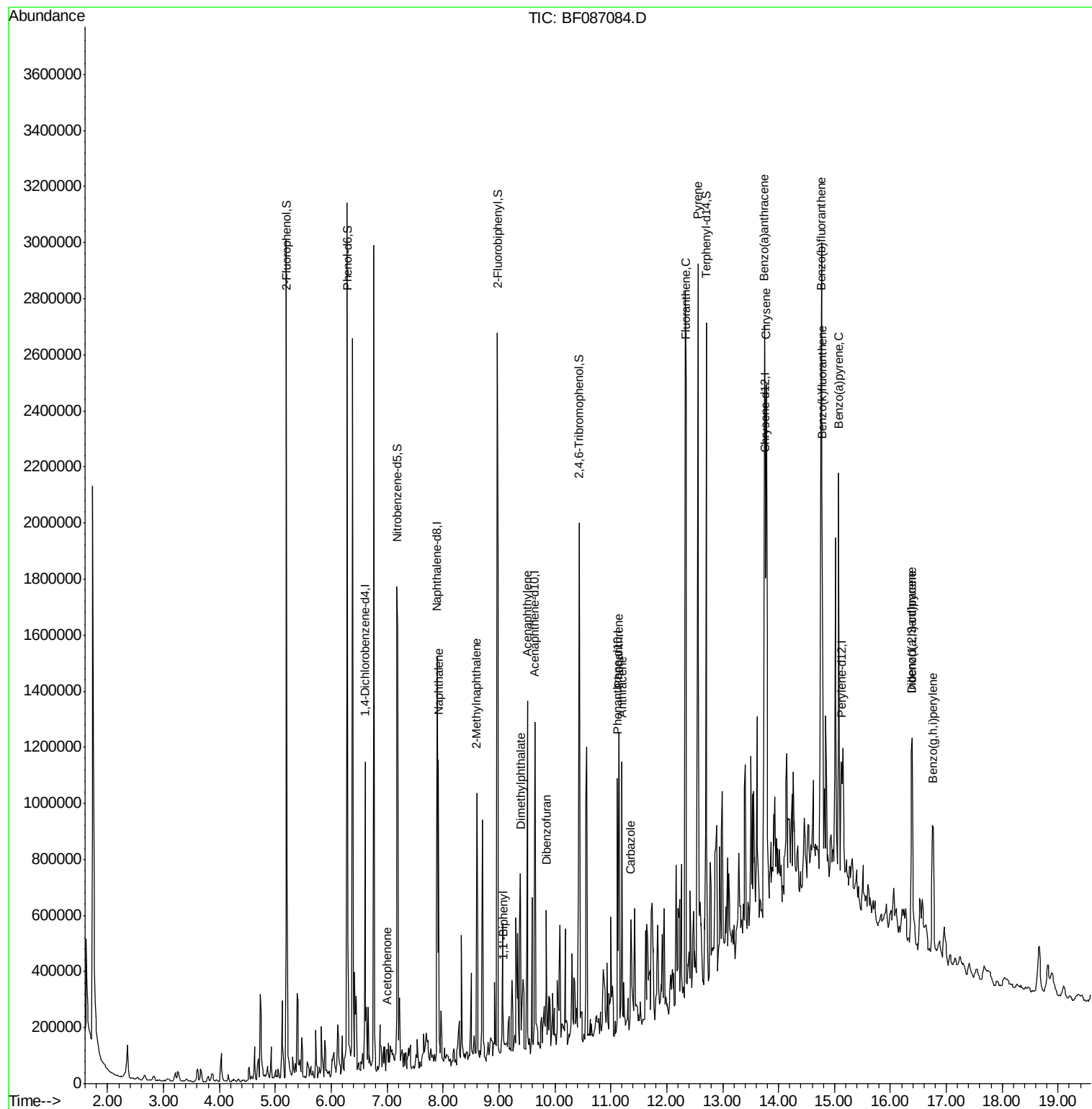
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
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ALS Vial : 11 Sample Multiplier: 1

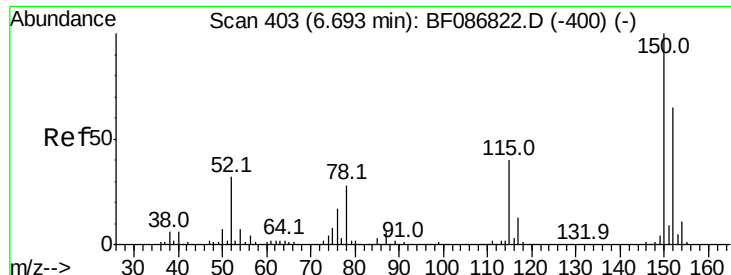
Instrument :
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CH-STA-1772-00(0-2)RE

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Quant Time: May 17 12:59:39 2016
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#1

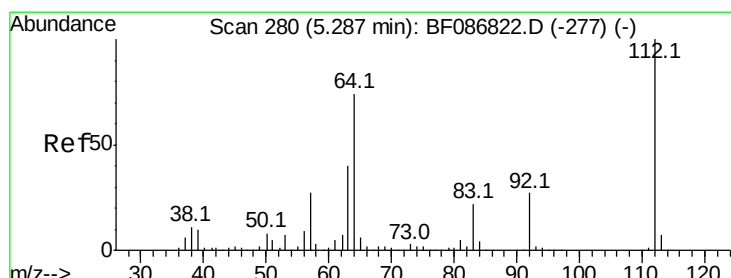
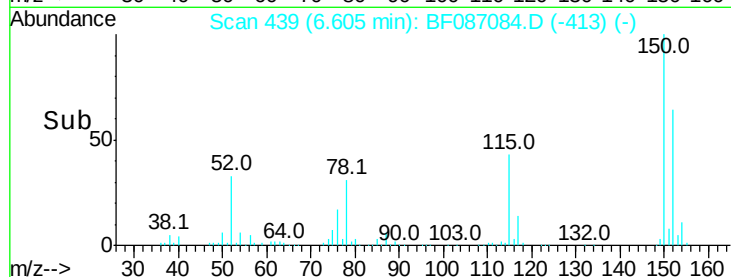
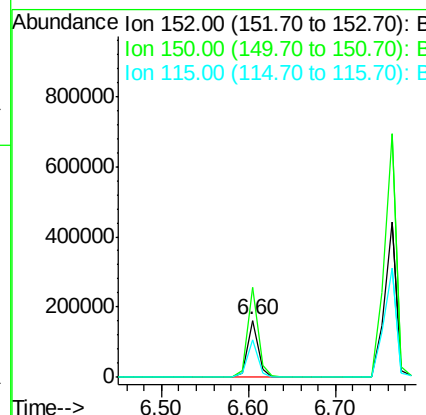
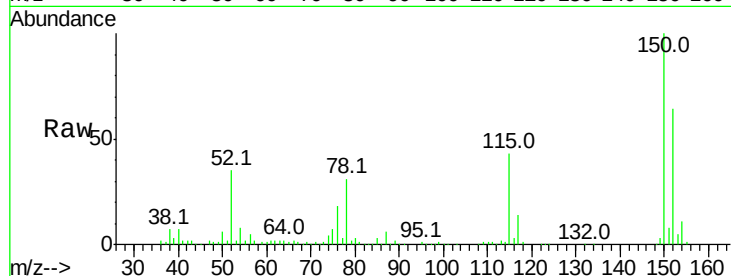
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.8	188.6
115	66.7	51.5	77.3

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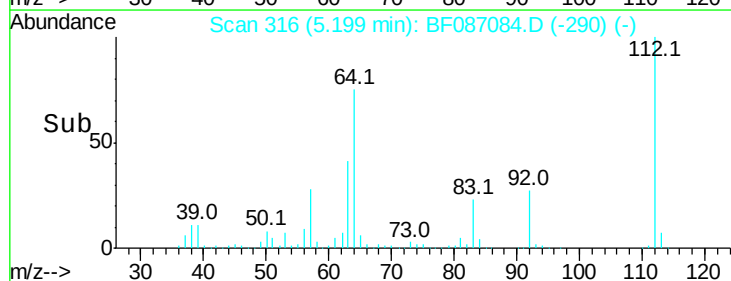
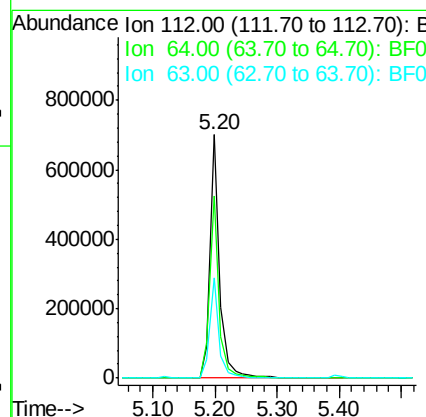
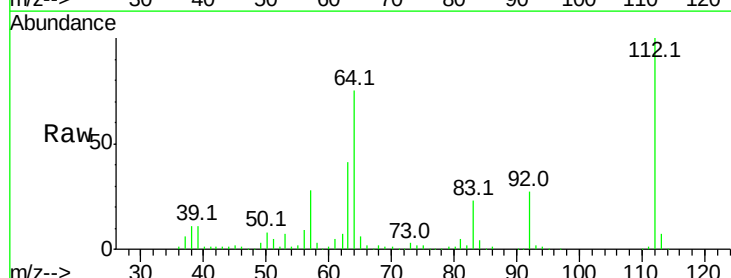
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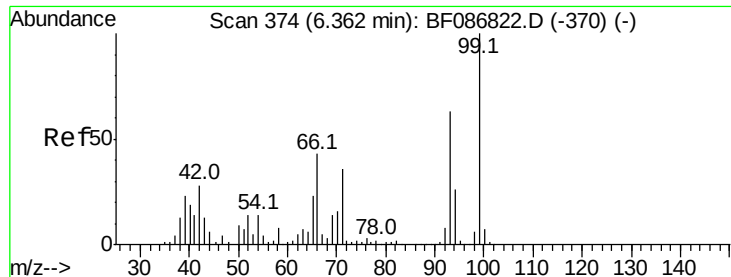


#5

2-Fluorophenol
Concen: 92.02 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	75.0	52.1	78.1
63	40.9	25.7	38.5





#7

Phenol-d6

Concen: 100.64 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion: 99 Resp: 1113235

Ion Ratio Lower Upper

99 100

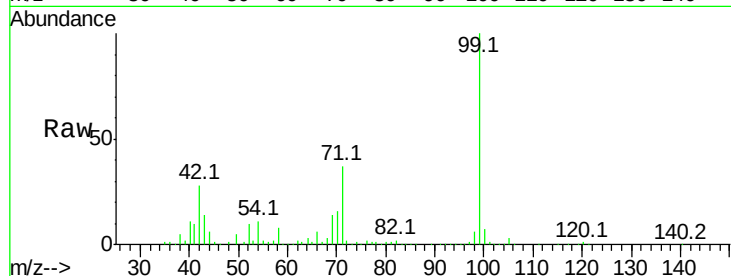
42 27.6 13.6 20.4#

71 37.3 24.6 36.8#

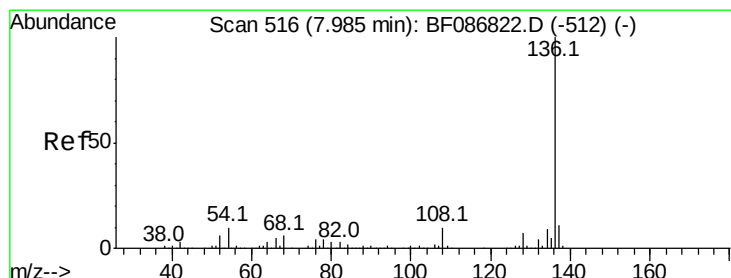
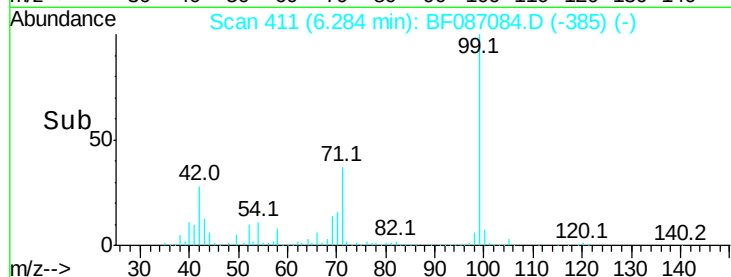
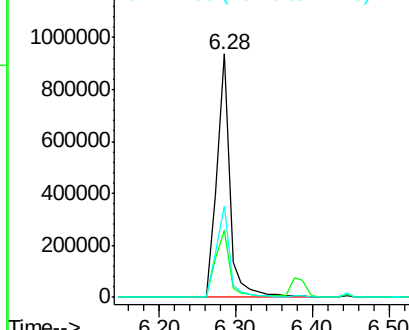
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Tgt Ion: 136 Resp: 508216

Ion Ratio Lower Upper

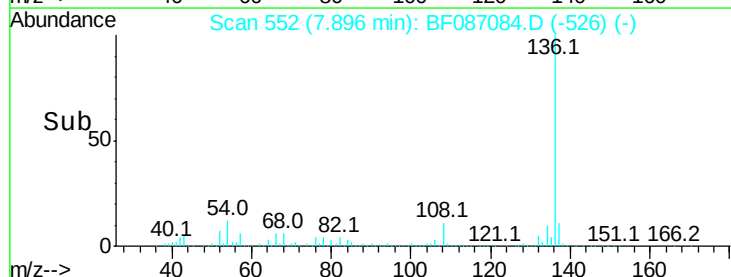
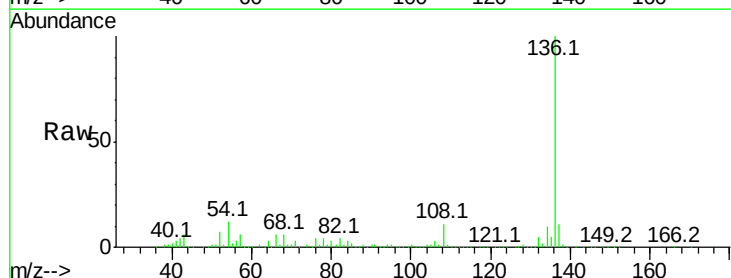
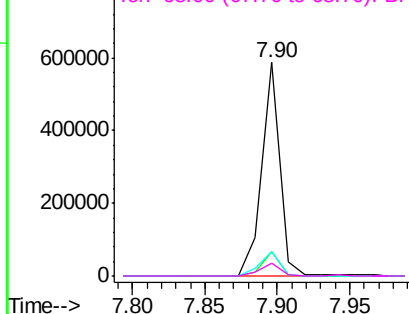
136 100

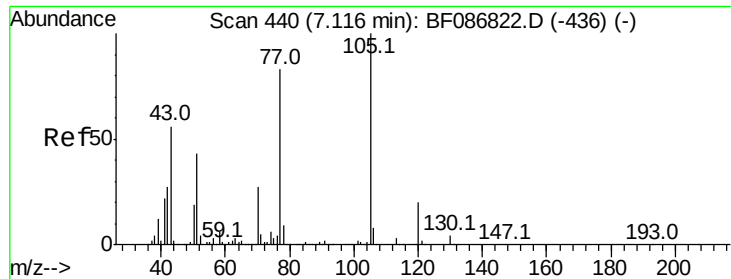
137 11.2 8.8 13.2

54 11.7 5.0 7.4#

68 6.1 4.4 6.6

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





#22

Acetophenone

Concen: 2.33 ng

RT: 7.00 min Scan# 474

Delta R.T. -0.03 min

Lab File: BF087084.D

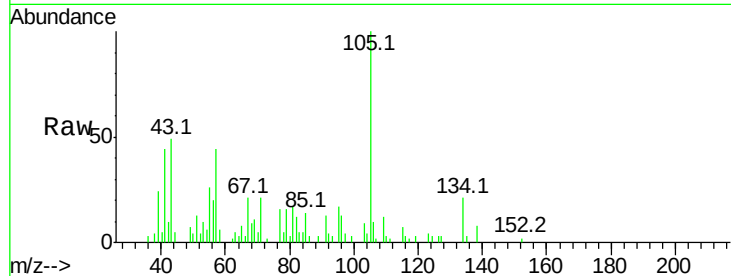
Acq: 16 May 2016 16:32

Instrument :

BNA_F

ClientSampleId :

CH-STA-1772-00(0-2)RE



Tot Ion:105 Resp: 27993

Ion Ratio Lower Upper

105 100

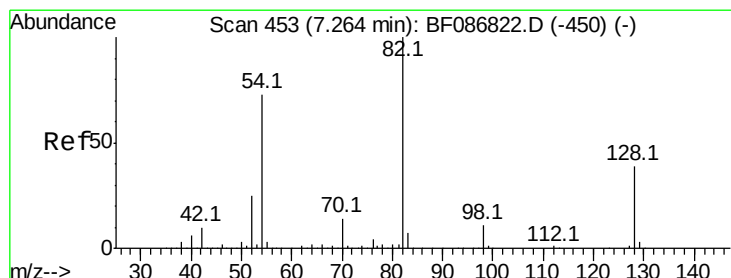
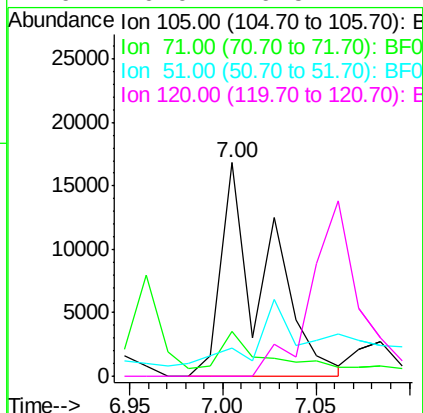
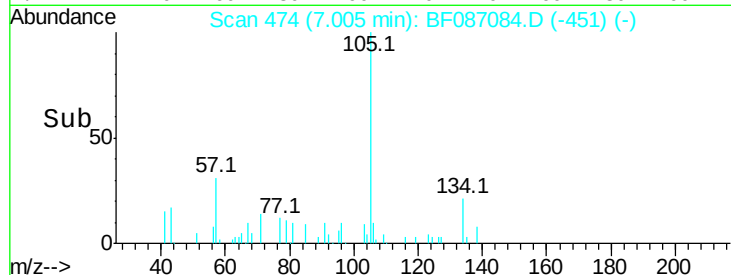
71 21.2 4.8 7.2#

51 13.3 32.6 49.0#

120 0.0 16.5 24.7#

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#23

Nitrobenzene-d5

Concen: 75.10 ng

RT: 7.18 min Scan# 489

Delta R.T. -0.01 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

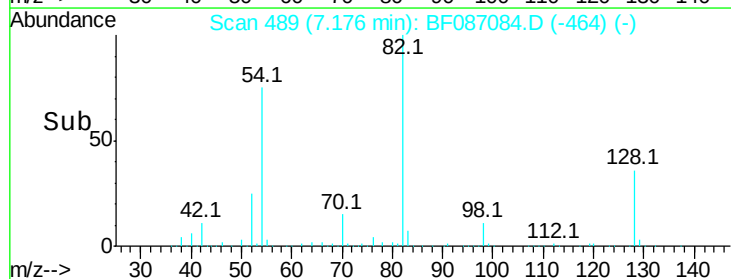
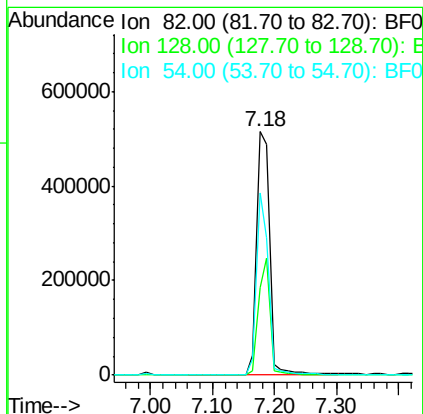
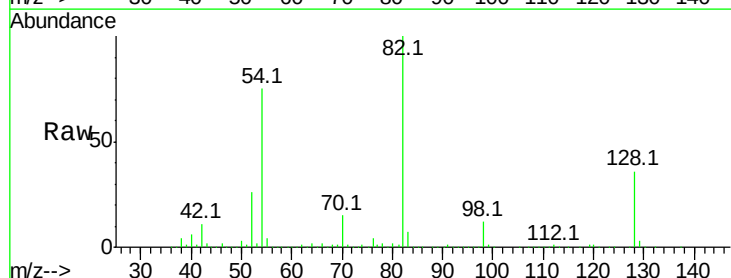
Tgt Ion: 82 Resp: 760077

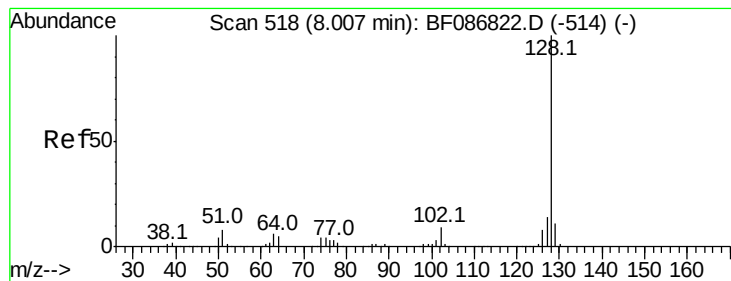
Ion Ratio Lower Upper

82 100

128 36.2 40.6 61.0#

54 74.9 38.1 57.1#





#31

Naphthalene

Concen: 17.60 ng

RT: 7.92 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

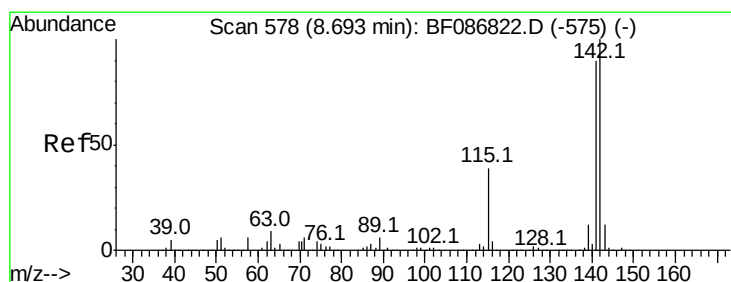
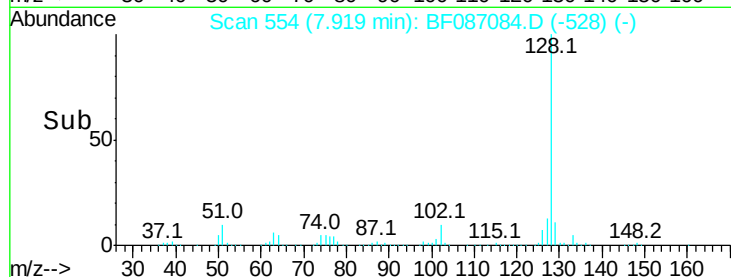
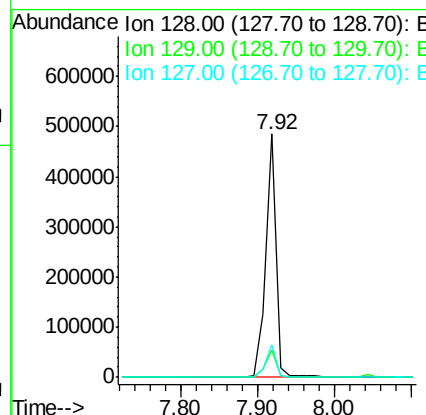
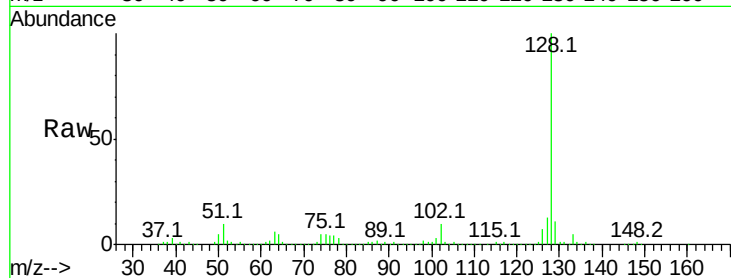
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion:	128	Resp:	448046
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.6	13.0
127	13.1	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 17.57 ng m

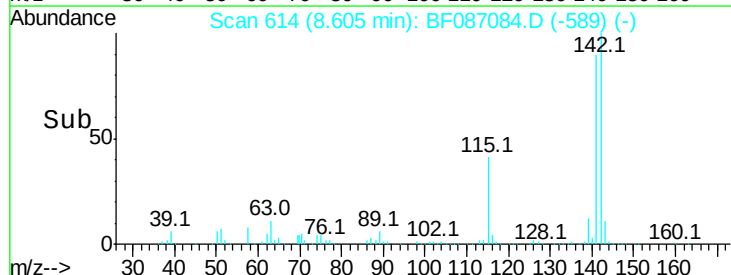
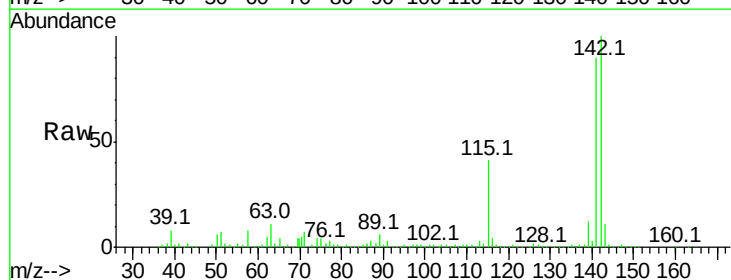
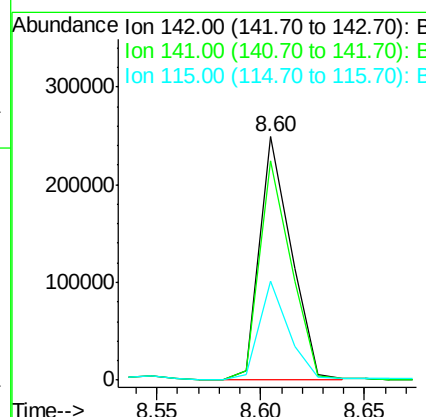
RT: 8.60 min Scan# 614

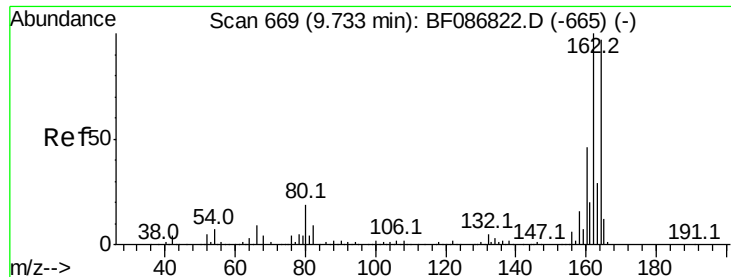
Delta R.T. -0.01 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Tgt Ion:	142	Resp:	261477
Ion Ratio	Lower	Upper	
142	100		
141	90.1	71.0	106.6
115	40.8	26.6	39.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 705

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

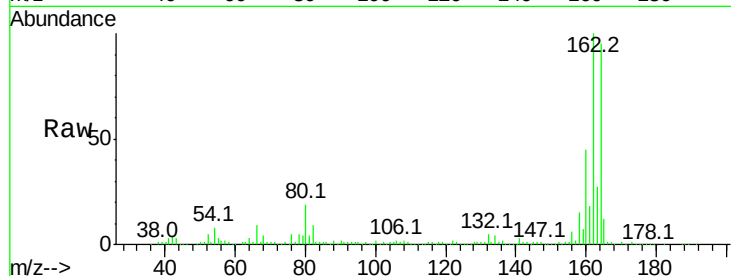
ClientSampleId :

CH-STA-1772-00(0-2)RE

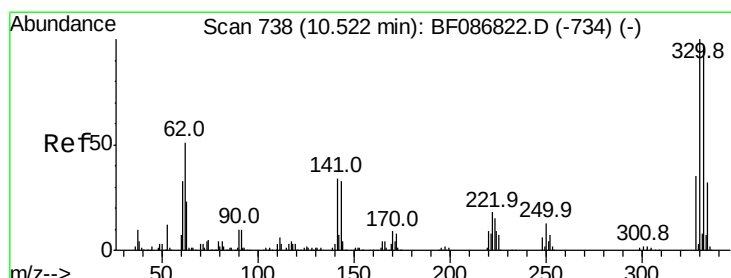
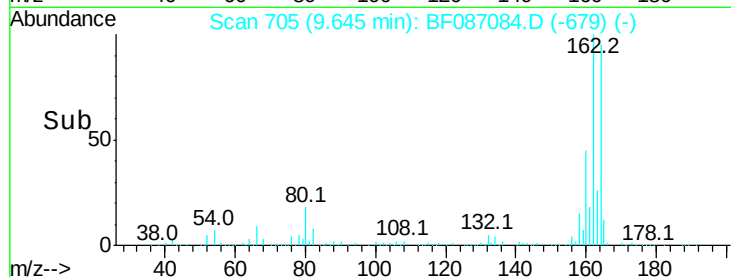
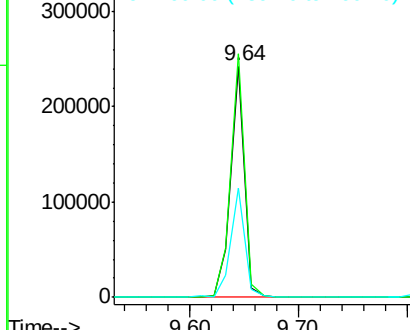
Tot Ion:	164	Resp:	212578
Ion Ratio	Lower	Upper	
164	100		
162	105.2	82.8	124.2
160	47.3	36.9	55.3

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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: 75.80 ng

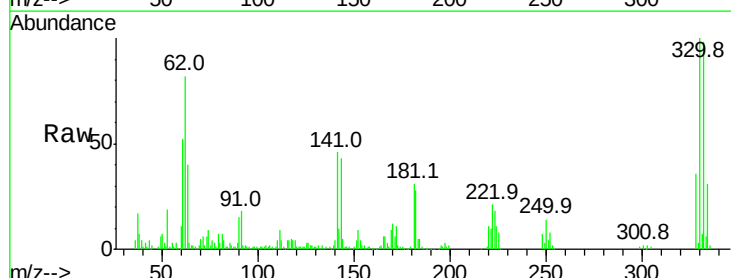
RT: 10.43 min Scan# 774

Delta R.T. -0.01 min

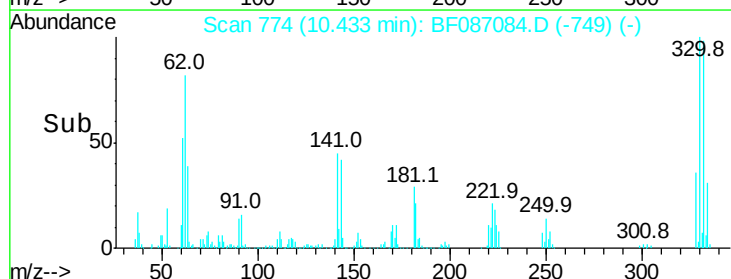
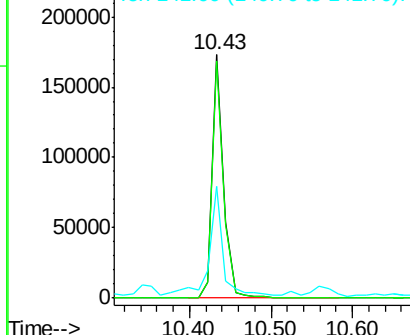
Lab File: BF087084.D

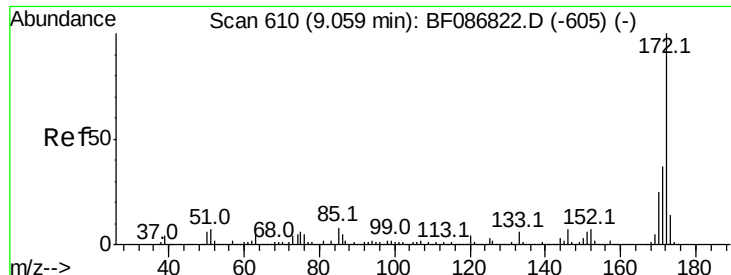
Acq: 16 May 2016 16:32

Tgt Ion:	330	Resp:	170587
Ion Ratio	Lower	Upper	
330	100		
332	97.2	79.0	118.4
141	54.4	31.2	46.8#



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





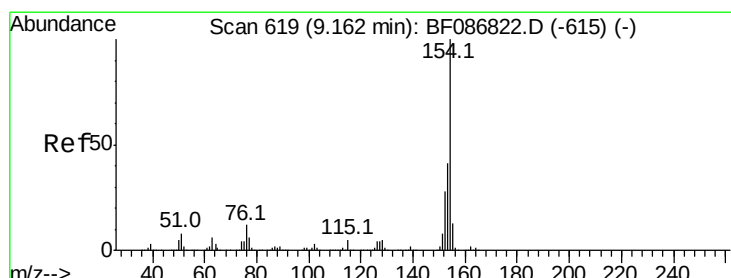
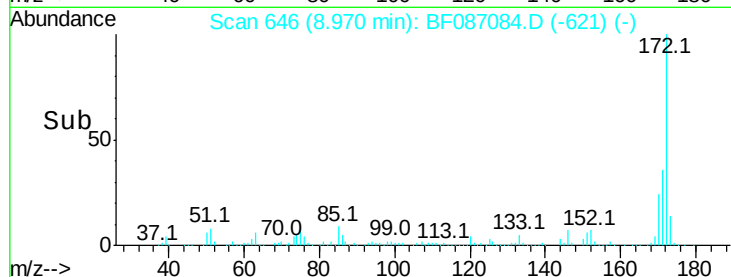
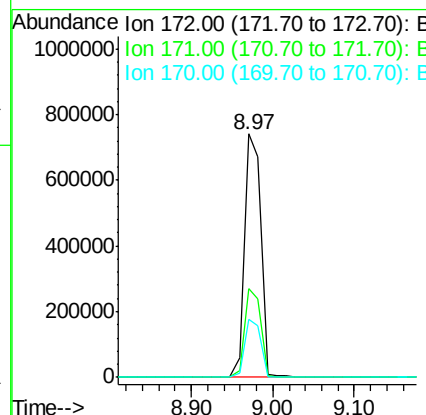
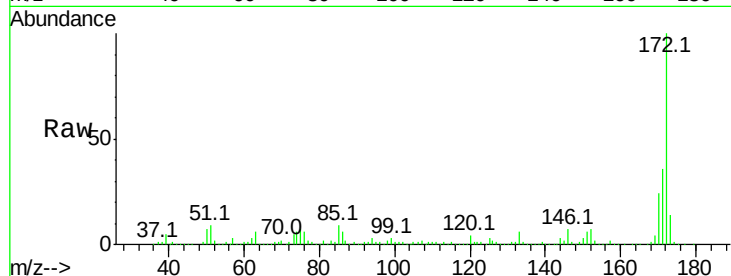
#44
2-Fluorobiphenyl
Concen: 81.36 ng
RT: 8.97 min Scan# 646
Delta R.T. -0.01 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Instrument :
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CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.6
170	24.1	19.8	29.8

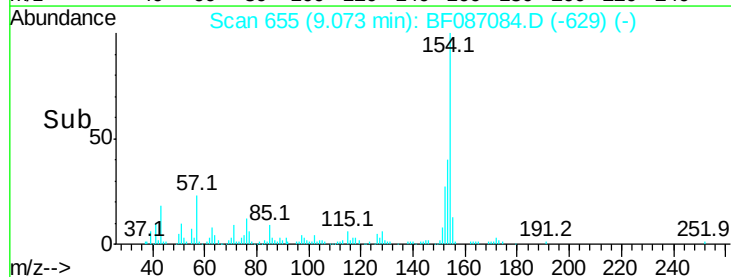
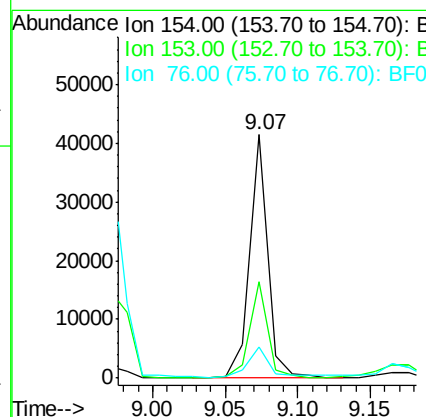
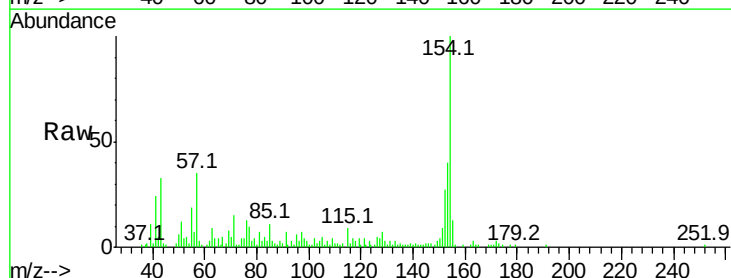
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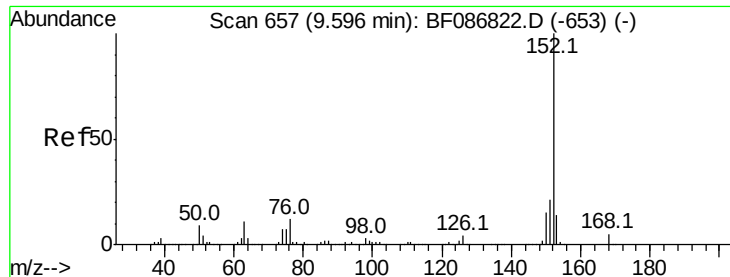
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#45
1,1'-Biphenyl
Concen: 2.13 ng
RT: 9.07 min Scan# 655
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.3	60.3
76	12.7	0.0	30.2





#48

Acenaphthylene

Concen: 24.35 ng

RT: 9.51 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

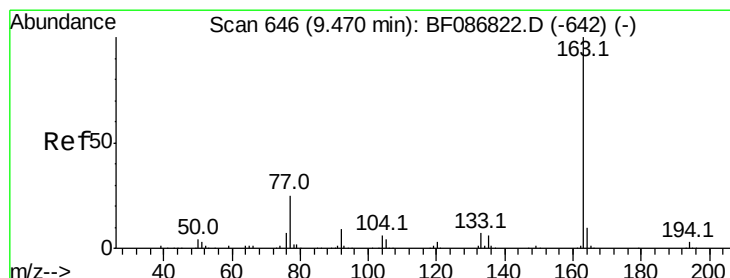
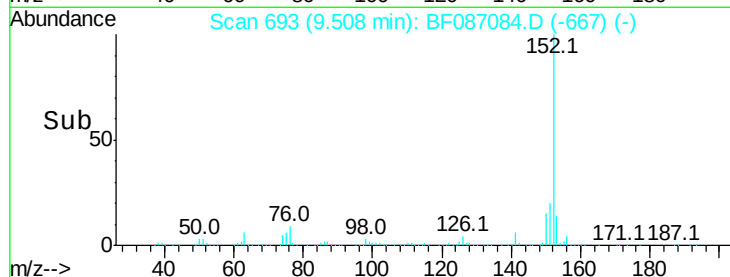
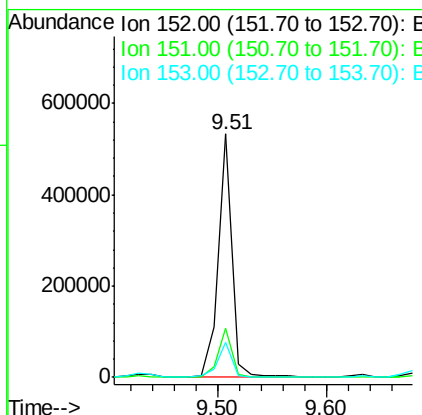
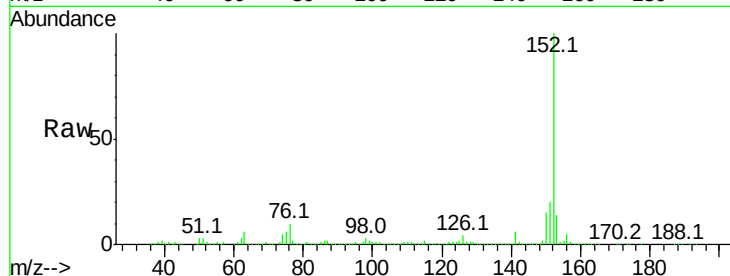
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion:	152	Resp:	474444
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.8	25.2
153	14.5	10.9	16.3

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#49

Dimethylphthalate

Concen: 6.43 ng

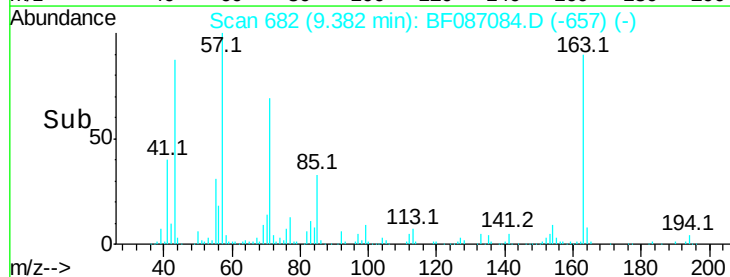
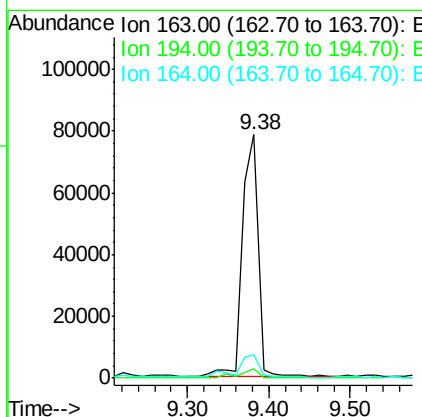
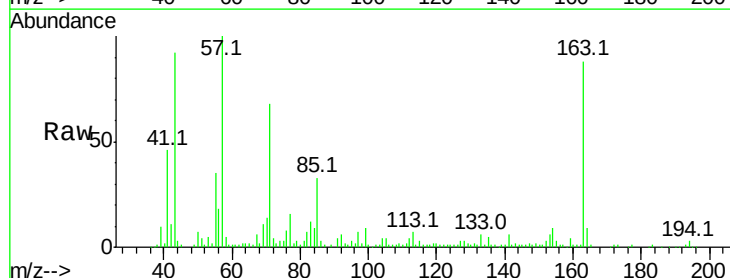
RT: 9.38 min Scan# 682

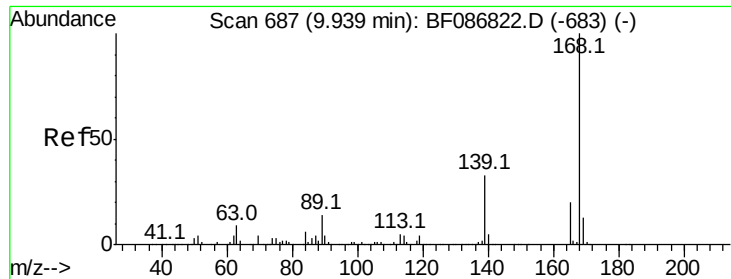
Delta R.T. -0.01 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Tgt Ion:	163	Resp:	104342
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.6	4.0
164	9.7	8.2	12.4





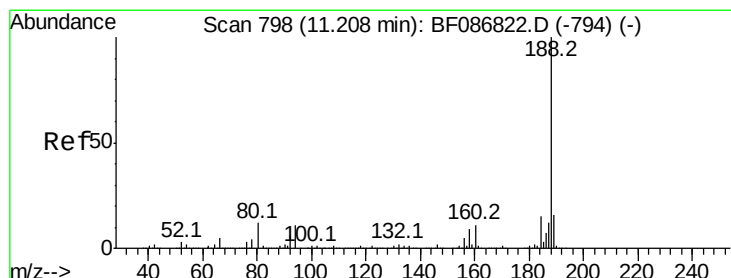
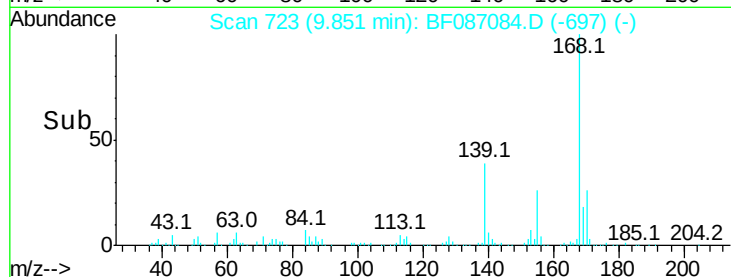
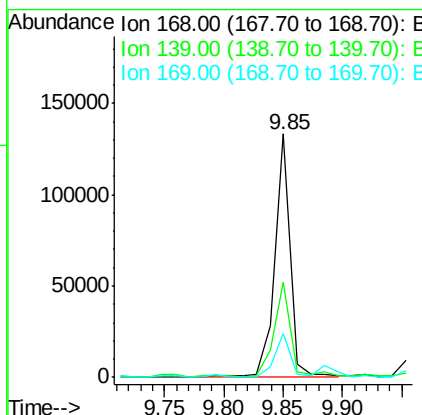
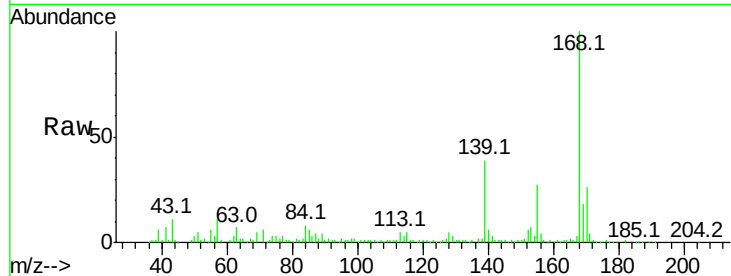
#54
Dibenzofuran
Concen: 7.80 ng
RT: 9.85 min Scan# 723
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.4	47.0
169	18.2	10.7	16.1#

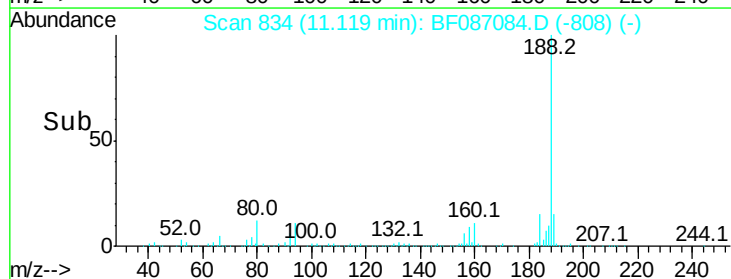
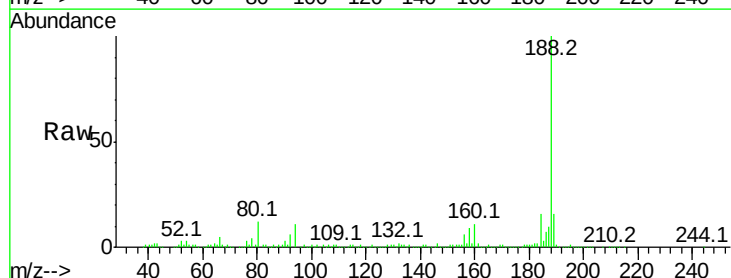
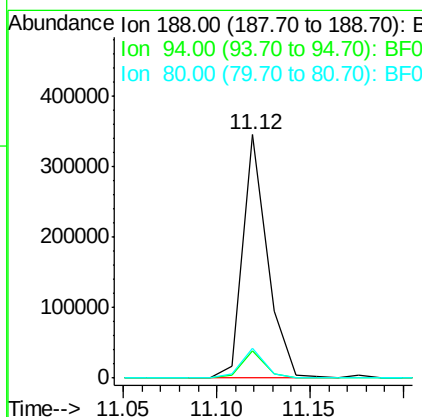
Manual Integrations
APPROVED

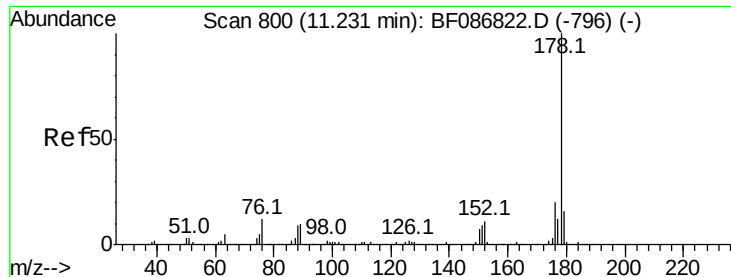
umangi
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 834
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.1	6.8	10.2#
80	12.4	7.1	10.7#





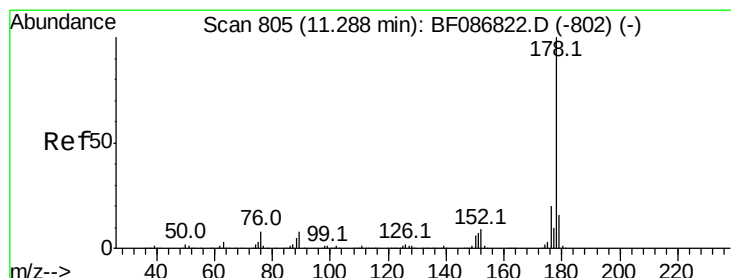
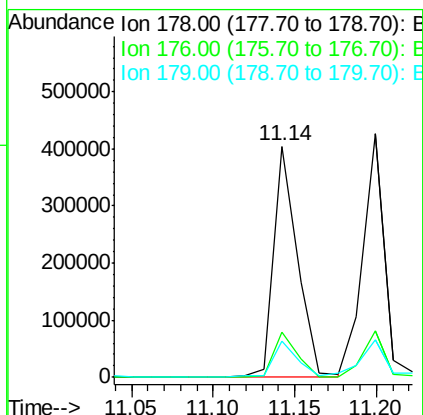
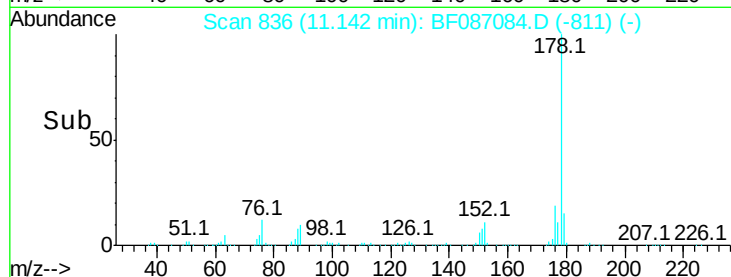
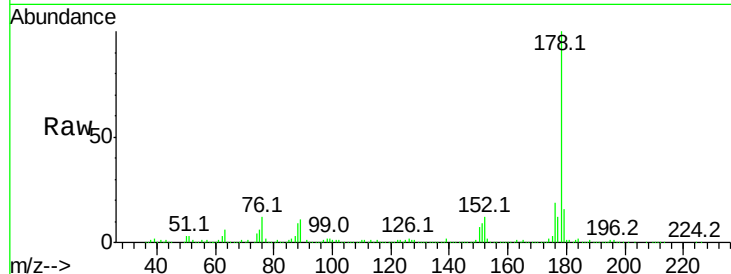
#70
Phenanthrene
Concen: 24.09 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.8	12.6	18.8

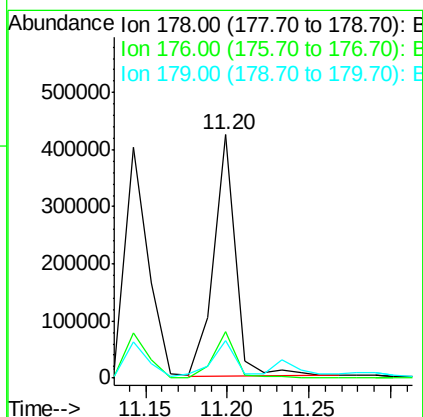
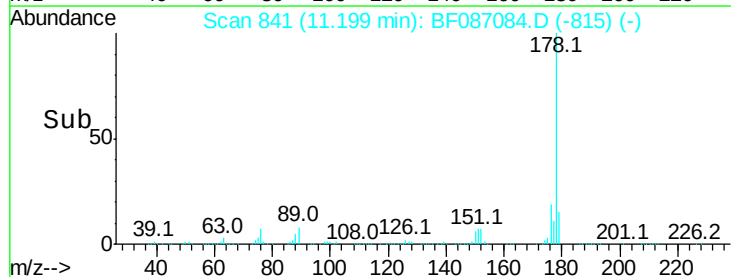
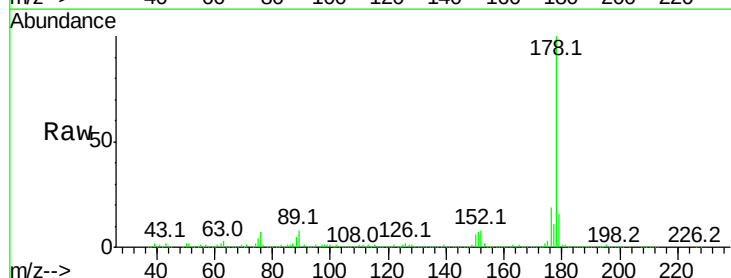
Manual Integrations
APPROVED

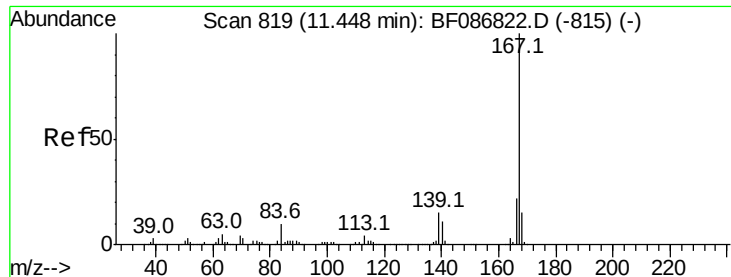
umangi
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#71
Anthracene
Concen: 22.76 ng
RT: 11.20 min Scan# 841
Delta R.T. 0.00 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.6	23.4
179	15.6	12.7	19.1





#72

Carbazole

Concen: 10.39 ng

RT: 11.36 min Scan# 855

Delta R.T. -0.01 min

Lab File: BF087084.D

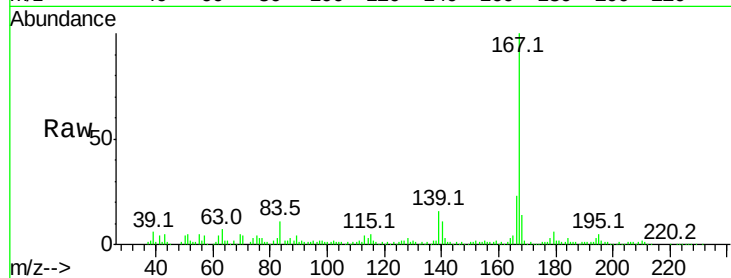
Acq: 16 May 2016 16:32

Instrument :

BNA_F

ClientSampleId :

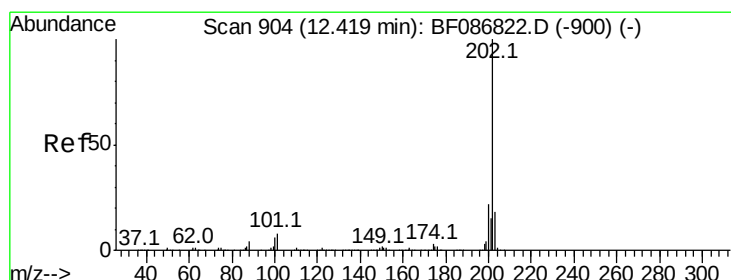
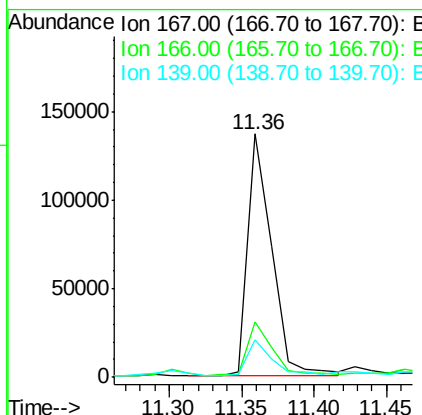
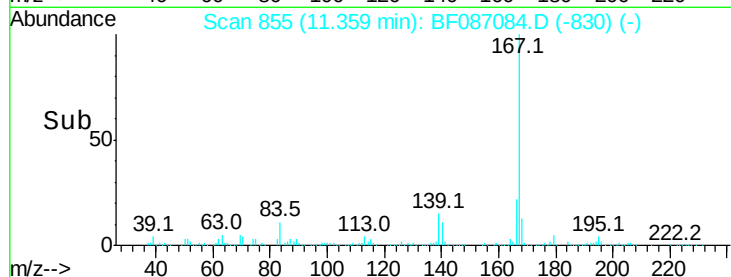
CH-StA-1772-00(0-2)RE



Tot Ion:	167	Resp:	155139
Ion Ratio	Lower	Upper	
167	100		
166	22.8	17.7	26.5
139	15.5	10.8	16.2

Manual Integrations
APPROVED

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#74

Fluoranthene

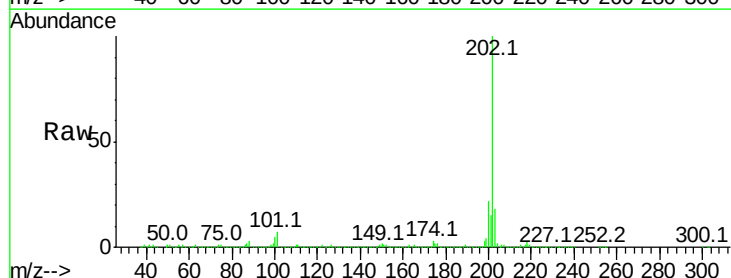
Concen: 83.01 ng

RT: 12.34 min Scan# 941

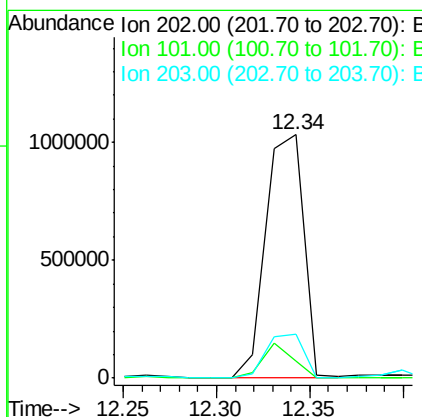
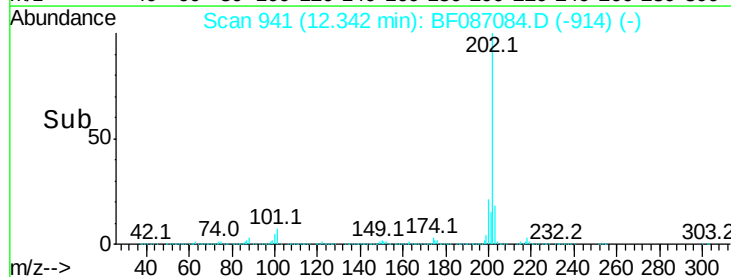
Delta R.T. 0.01 min

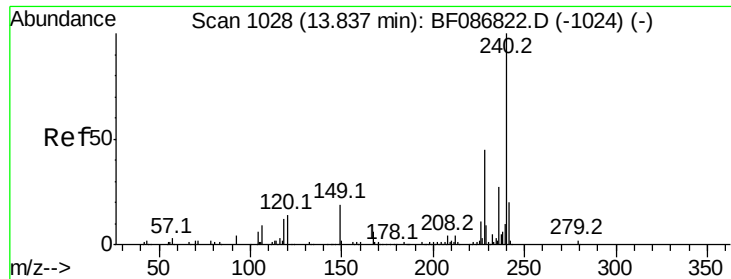
Lab File: BF087084.D

Acq: 16 May 2016 16:32



Tgt Ion:	202	Resp:	1449967
Ion Ratio	Lower	Upper	
202	100		
101	6.9	0.0	35.4
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

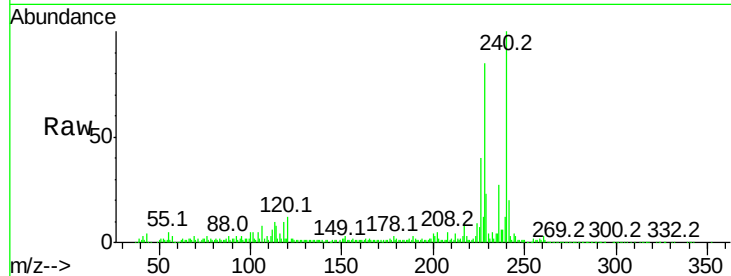
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion:	240	Resp:	260758
Ion Ratio	Lower	Upper	
240	100		
120	11.7	11.2	16.8
236	26.9	21.2	31.8

Manual Integrations
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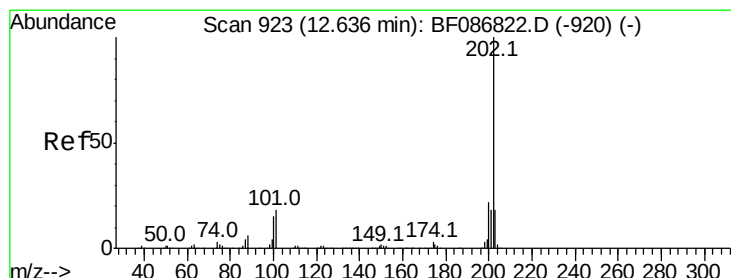
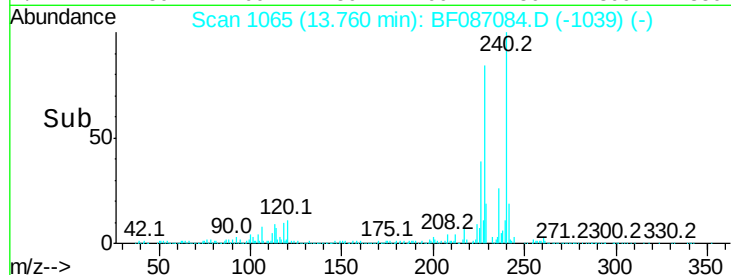
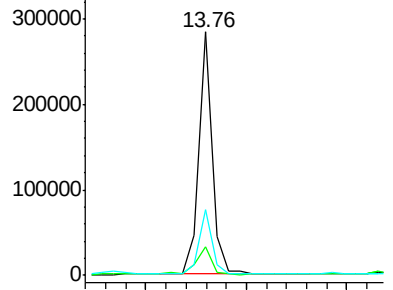
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 65.28 ng

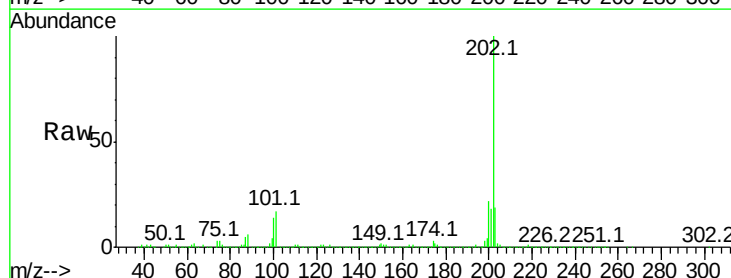
RT: 12.56 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

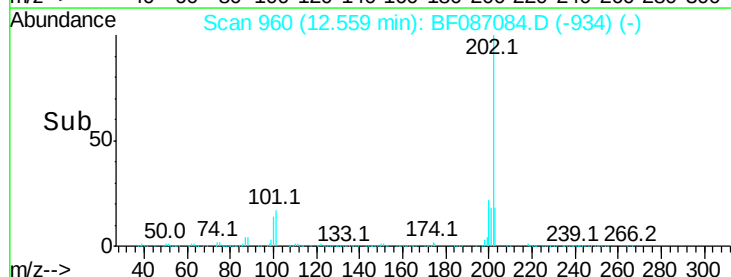
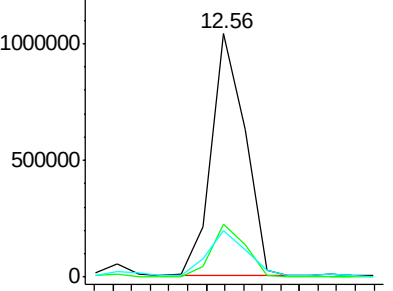
Tgt Ion:	202	Resp:	1303305
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.7	26.5
203	18.9	14.2	21.4

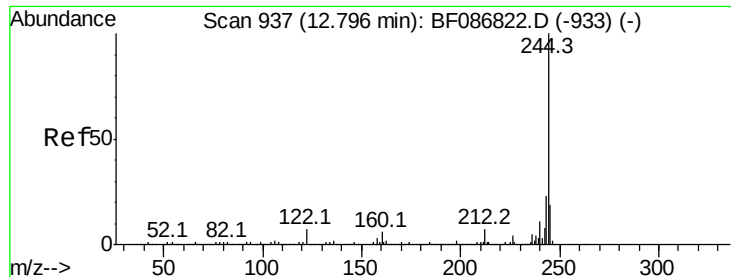


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





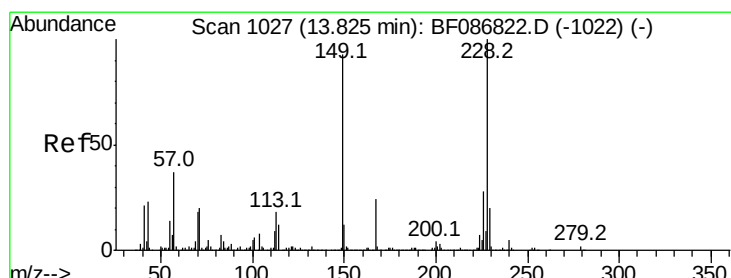
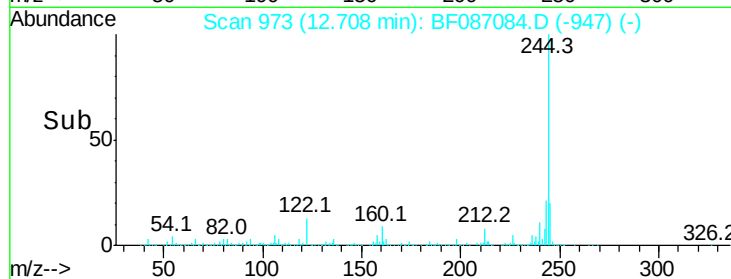
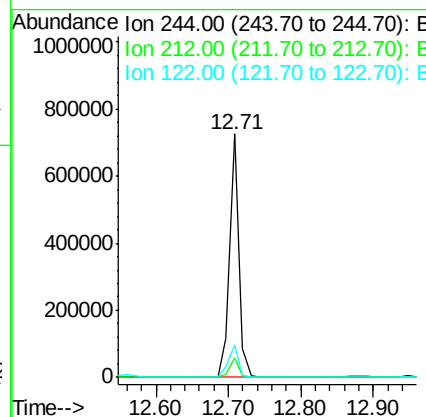
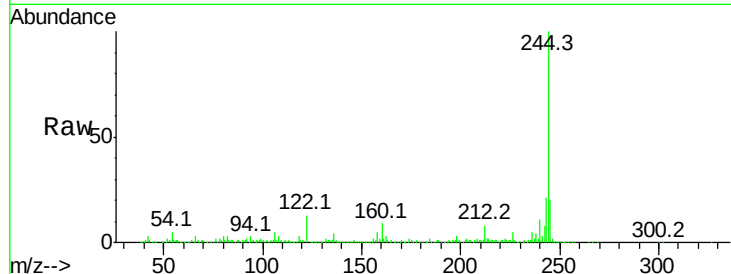
#78
 Terphenyl-d14
 Concen: 52.64 ng
 RT: 12.71 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: BF087084.D
 Acq: 16 May 2016 16:32

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.2	6.2	9.2	
122	13.2	12.0	18.0	

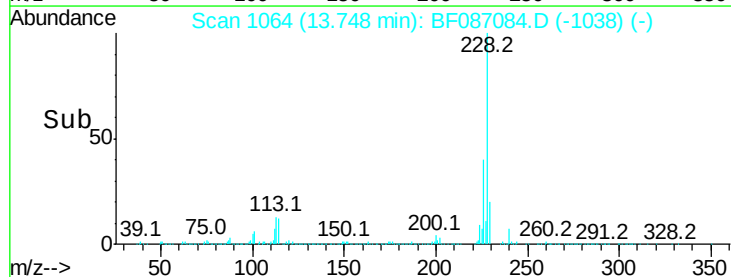
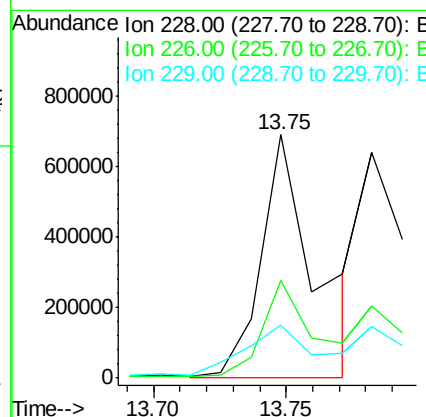
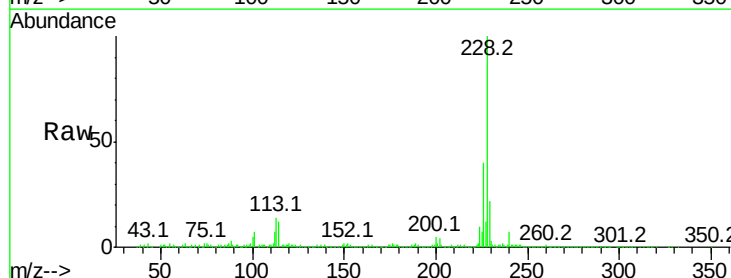
Manual Integrations
 APPROVED

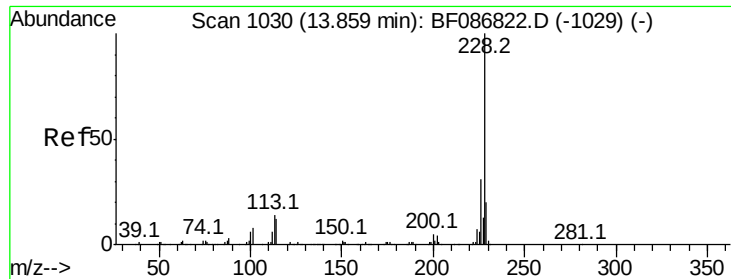
umangi
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#80
 Benzo(a)anthracene
 Concen: 66.04 ng m
 RT: 13.75 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: BF087084.D
 Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	40.2	22.5	33.7#	
229	21.9	16.6	25.0	





#82

Chrysene

Concen: 48.34 ng

RT: 13.78 min Scan# 1067

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

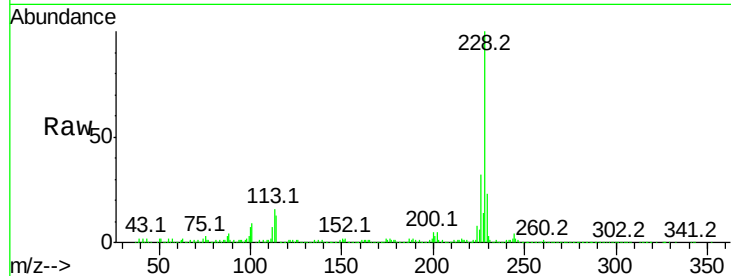
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion:	228	Resp:	719790
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.4	36.6
229	22.7	15.8	23.8

Manual Integrations
APPROVED

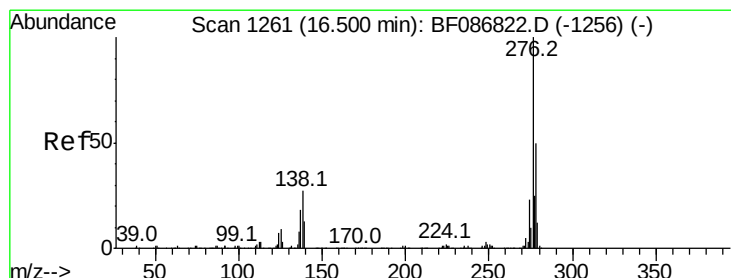
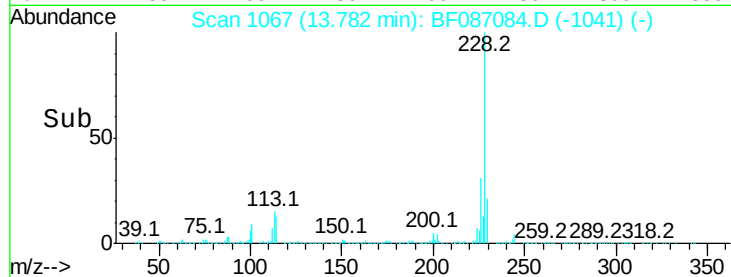
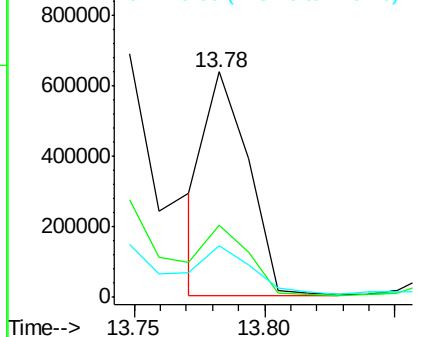
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 38.10 ng

RT: 16.39 min Scan# 1295

Delta R.T. 0.02 min

Lab File: BF087084.D

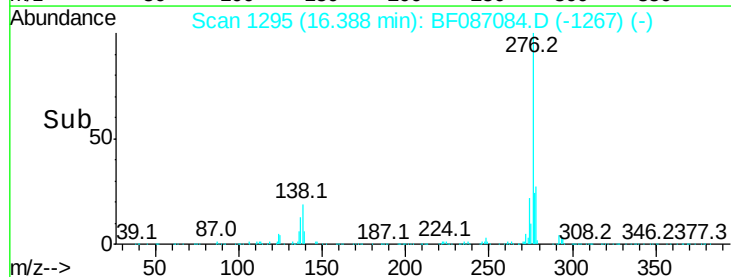
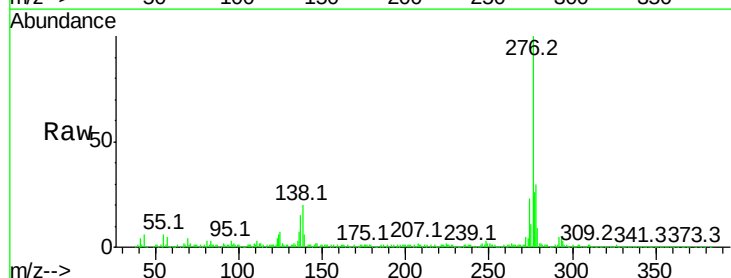
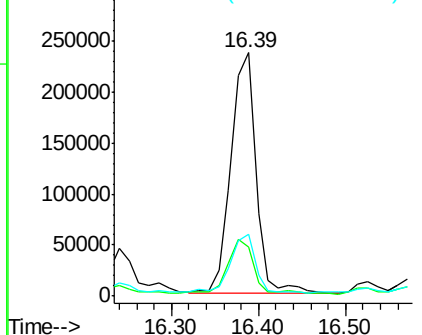
Acq: 16 May 2016 16:32

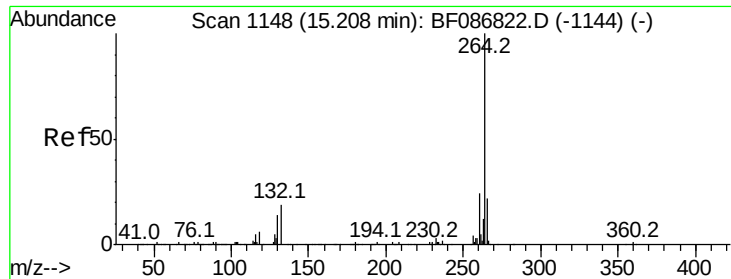
Tgt Ion:	276	Resp:	472008
Ion Ratio	Lower	Upper	
276	100		
138	21.7	25.6	38.4#
277	23.9	20.5	30.7

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





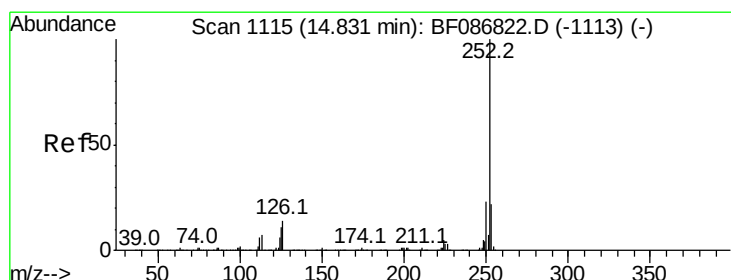
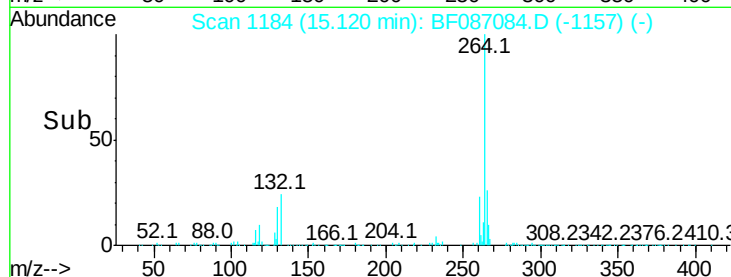
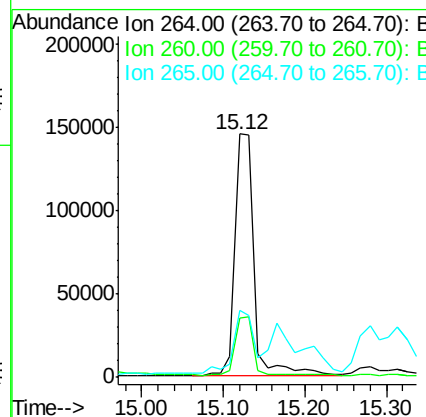
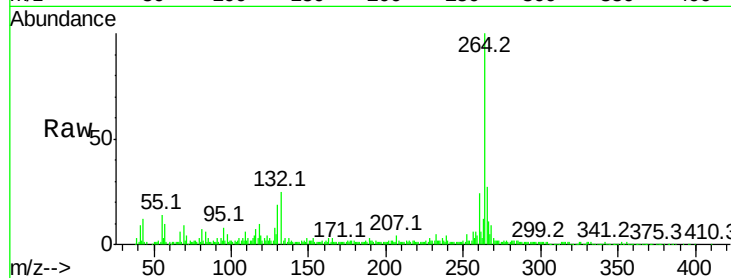
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. 0.01 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	27.3	17.3	25.9

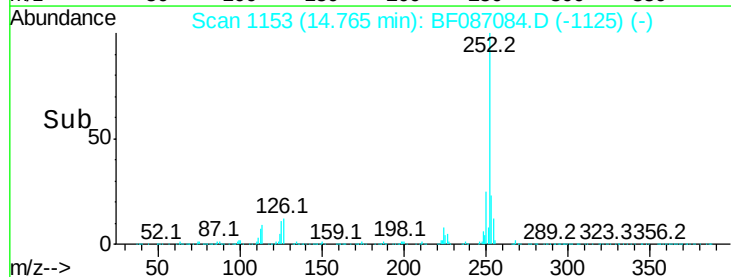
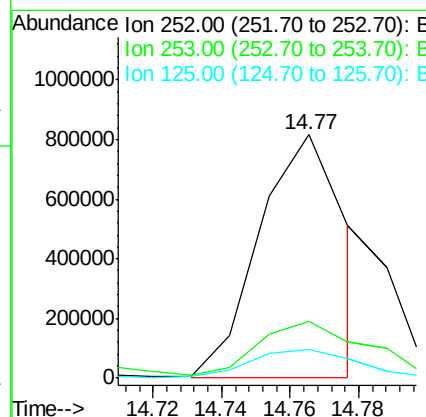
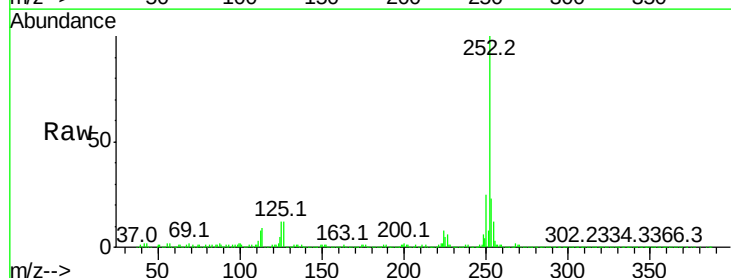
Manual Integrations
APPROVED

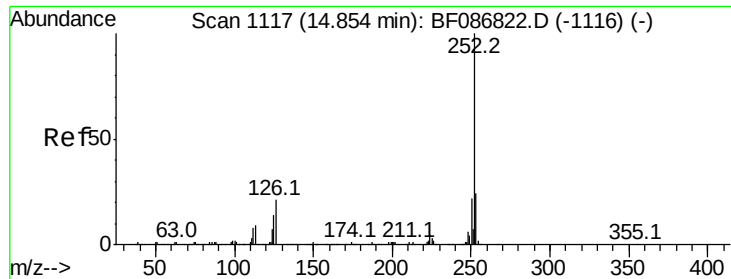
umangi
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#87
Benzo(b)fluoranthene
Concen: 91.63 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.02 min
Lab File: BF087084.D
Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	11.5	11.4	17.0





#88

Benzo(k)fluoranthene

Concen: 21.66 ng

RT: 14.78 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

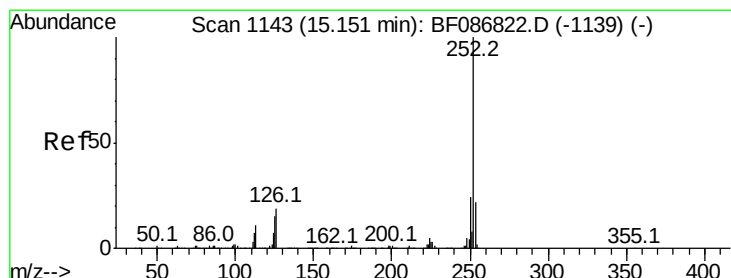
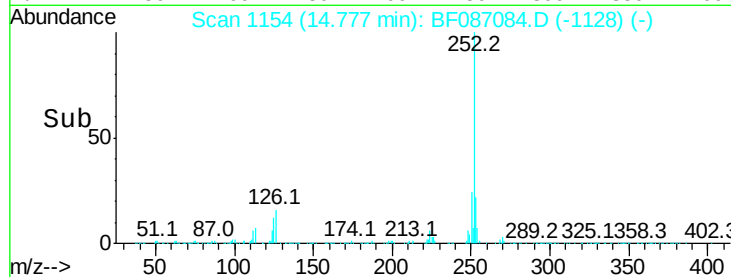
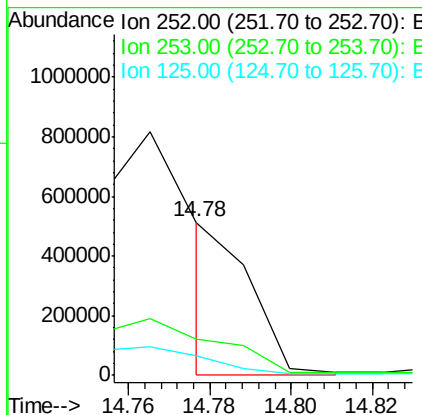
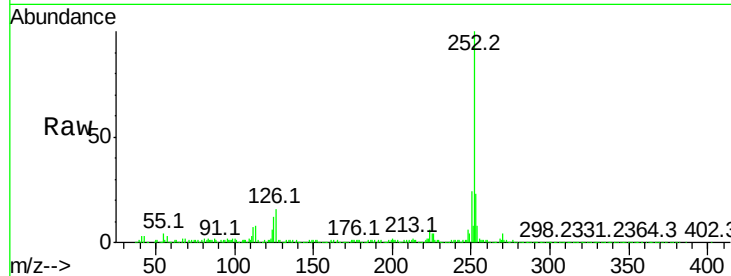
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion	Ratio	Resp	Lower	Upper
252	100	276916		
253	23.3	17.8	26.6	
125	12.5	9.1	13.7	

Manual Integrations
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5/17/2016 7:15:31 PM



#89

Benzo(a)pyrene

Concen: 46.32 ng

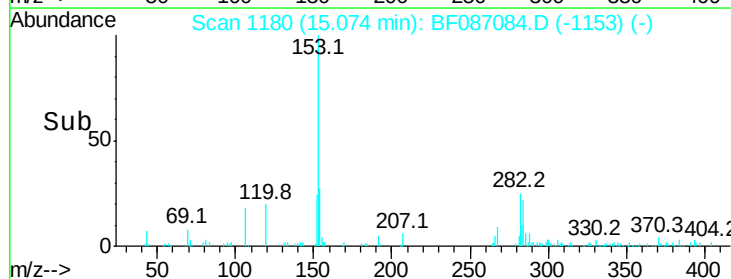
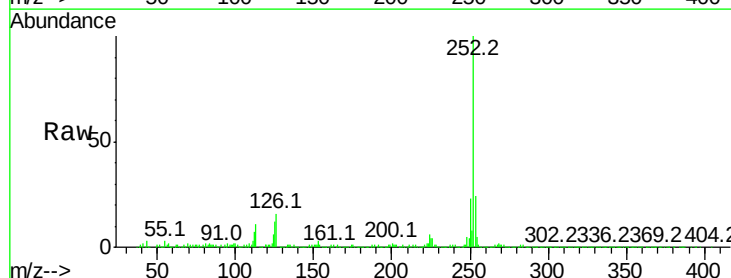
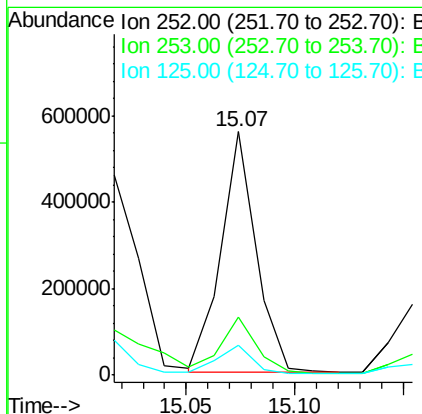
RT: 15.07 min Scan# 1180

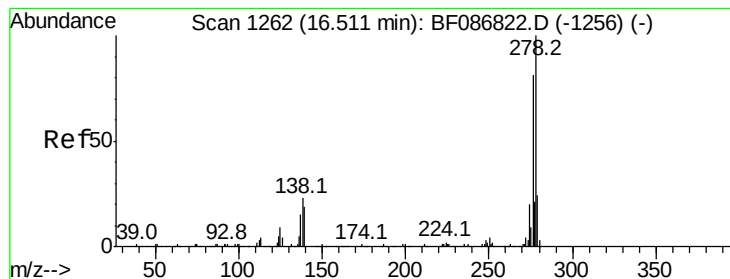
Delta R.T. 0.01 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	623730		
253	24.0	17.2	25.8	
125	12.3	9.0	13.6	





#90

Dibenzo(a,h)anthracene

Concen: 11.80 ng/mL

RT: 16.39 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Instrument :

BNA_F

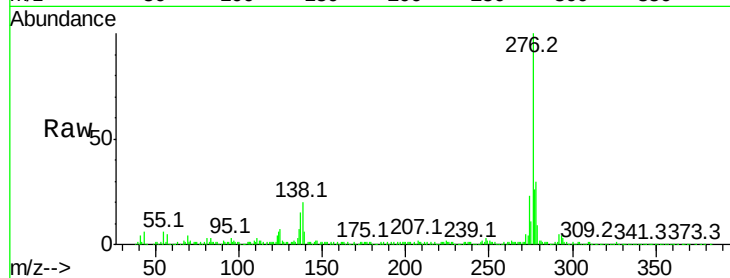
ClientSampleId :

CH-STA-1772-00(0-2)RE

Tot Ion:	278	Resp:	133953
Ion Ratio	Lower	Upper	
278	100		
139	19.3	16.6	24.8
279	30.8	19.6	29.4

Manual Integrations
APPROVED

umangi
5/17/2016 7:15:31 PM

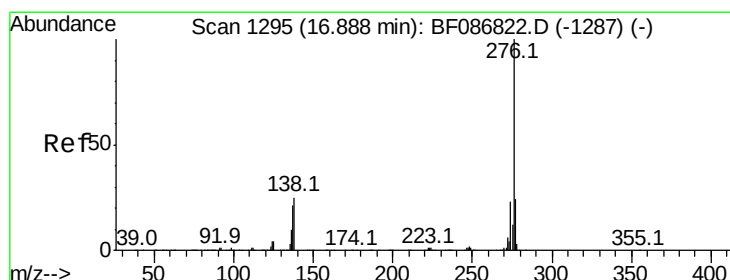
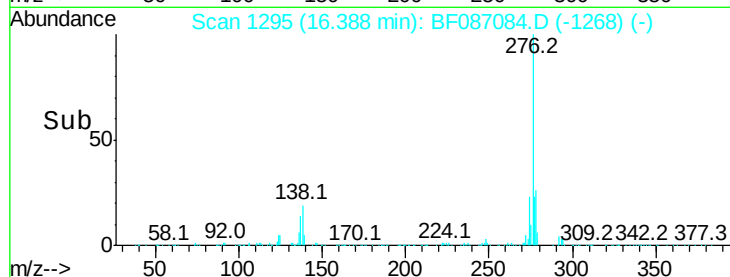
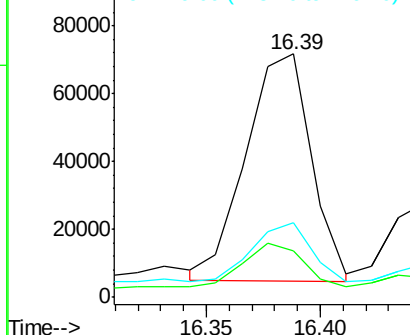


Abundance

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: 34.17 ng/mL

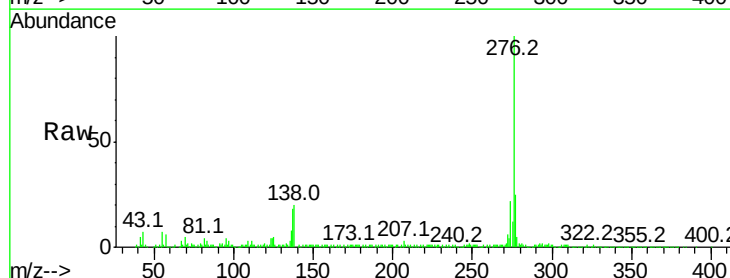
RT: 16.77 min Scan# 1328

Delta R.T. 0.02 min

Lab File: BF087084.D

Acq: 16 May 2016 16:32

Tgt Ion:	276	Resp:	394078
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.6	29.4
138	20.2	23.6	35.4



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

