

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
 Data File : BF087612.D
 Acq On : 1 Jun 2016 8:53
 Operator : UM/SJ
 Sample : H3190-04DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1705(0-4)

Manual Integrations
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Quant Time: Jun 01 13:56:18 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 01 13:33:47 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	104750	20.00	ng	-0.01
21) Naphthalene-d8	9.47	136	426360	20.00	ng	0.00
38) Acenaphthene-d10	12.30	164	181559	20.00	ng	-0.01
63) Phenanthrene-d10	14.70	188	284203	20.00	ng	-0.01
75) Chrysene-d12	18.42	240	226931	20.00	ng	0.00
86) Perylene-d12	20.10	264	186987	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	97215	16.31	ng	0.05
7) Phenol-d6	7.04	99	161547	20.06	ng	0.02
23) Nitrobenzene-d5	8.39	82	114270	13.51	ng	0.01
41) 2,4,6-Tribromophenol	13.61	330	27583	15.81	ng	0.00
44) 2-Fluorobiphenyl	11.24	172	203321	15.79	ng	-0.01
78) Terphenyl-d14	17.05	244	114683	10.74	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.52	128	45349	2.12	ng	99
48) Acenaphthylene	12.08	152	74561	4.03	ng	99
49) Dimethylphthalate	11.95	163	31238	2.15	ng	99
70) Phenanthrene	14.74	178	72675	4.62	ng	98
71) Anthracene	14.85	178	52181	3.28	ng	99
74) Fluoranthene	16.51	202	285640	18.09	ng	94
77) Pyrene	16.82	202	262919	16.10	ng	99
80) Benzo(a)anthracene	18.41	228	186285	14.43	ng	93
82) Chrysene	18.46	228	164467	12.84	ng	100
85) Indeno(1,2,3-cd)pyrene	21.36	276	89656	8.73	ng	# 91
87) Benzo(b)fluoranthene	19.69	252	278332m	23.37	ng	
88) Benzo(k)fluoranthene	19.73	252	106506m	10.39	ng	
89) Benzo(a)pyrene	20.06	252	144999	14.08	ng	94
90) Dibenzo(a,h)anthracene	21.35	278	27369	3.11	ng	96
91) Benzo(a,h,i)perylene	21.71	276	74461	8.59	ng	# 89

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

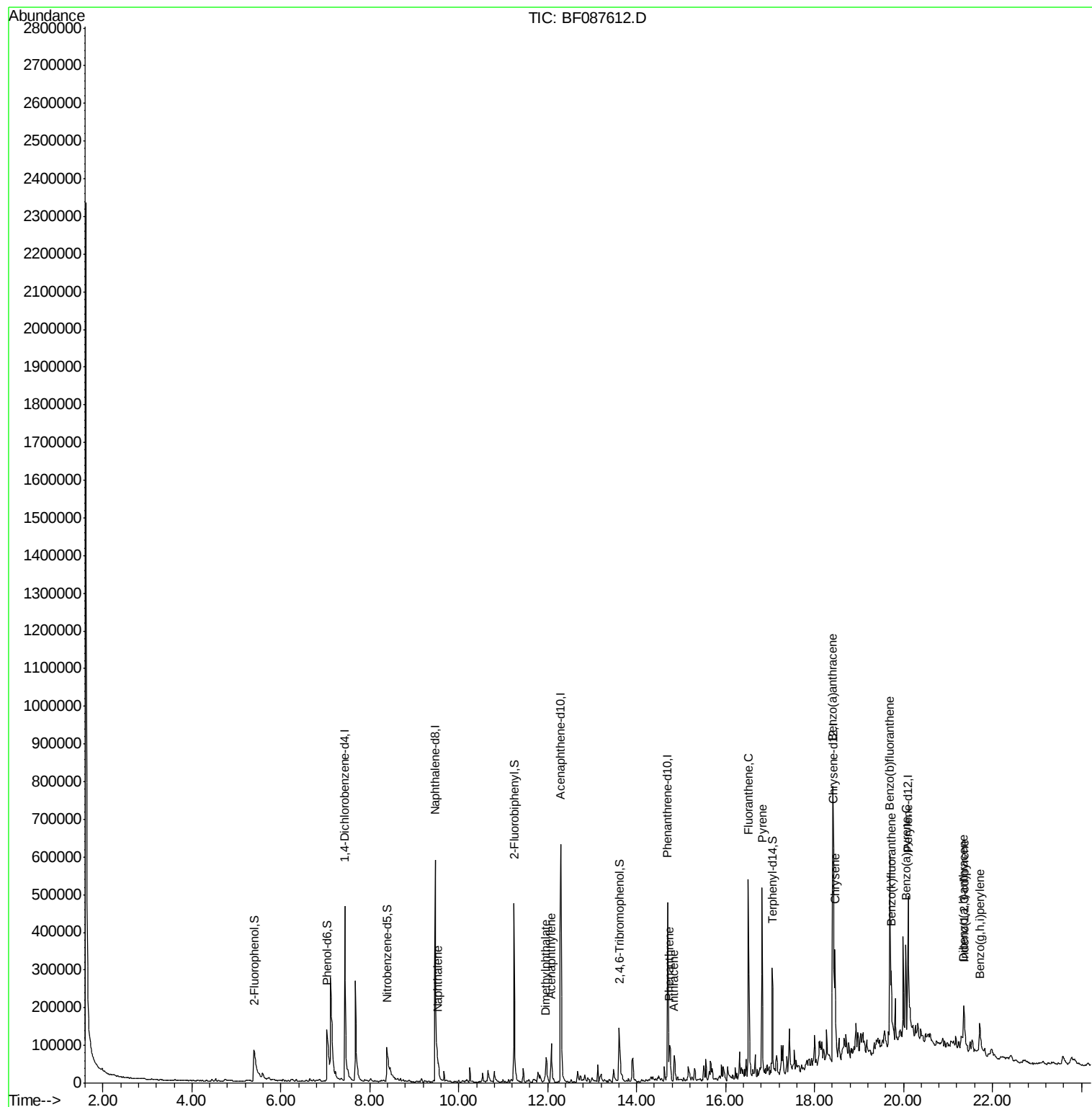
Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
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#1

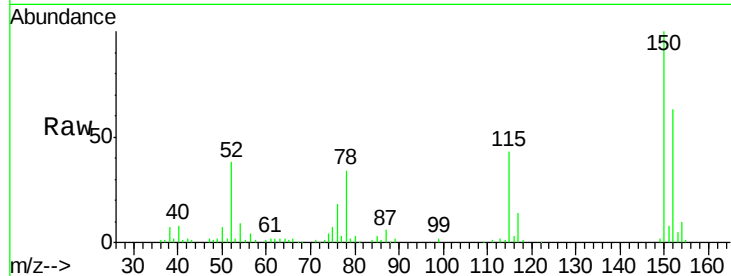
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.44 min Scan# 512
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

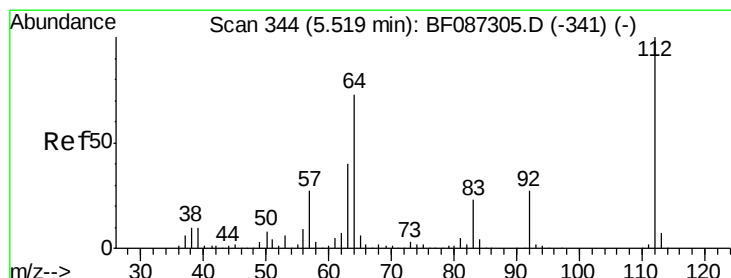
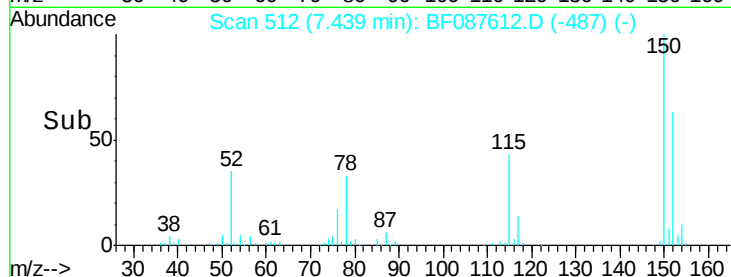
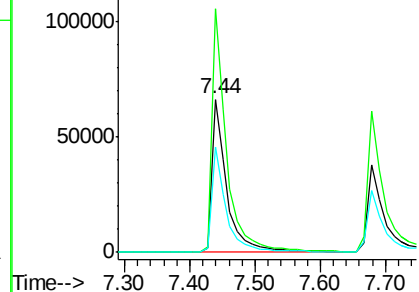
Tot Ion	Ratio	Resp	Lower	Upper
152	100	104750		
150	158.8	125.8	188.6	
115	68.9	51.5	77.3	

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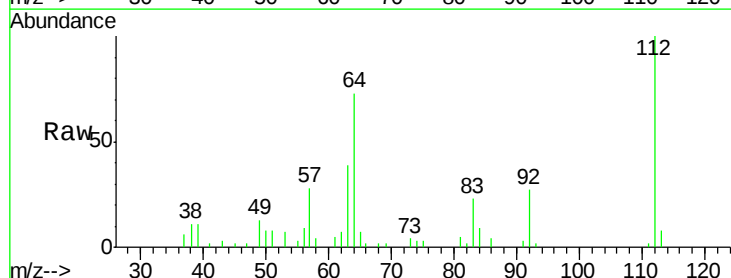
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



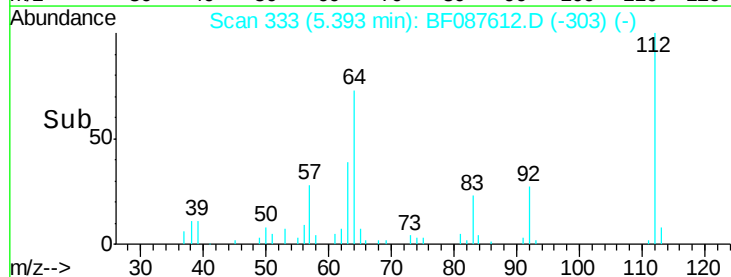
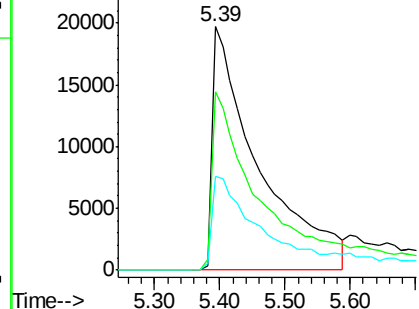
#5

2-Fluorophenol
Concen: 16.31 ng
RT: 5.39 min Scan# 333
Delta R.T. 0.05 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	97215		
64	73.3	52.1	78.1	
63	38.8	25.7	38.5	



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: 20.06 ng

RT: 7.04 min Scan# 477

Delta R.T. 0.02 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

Tot Ion: 99 Resp: 161547

Ion Ratio Lower Upper

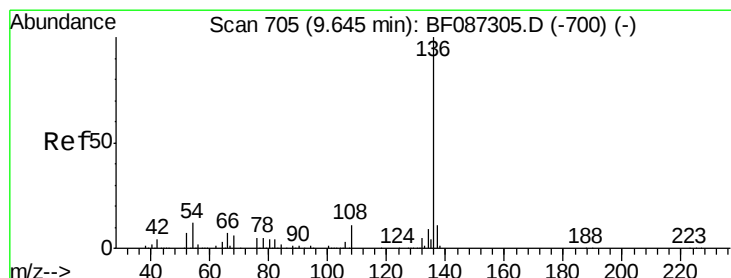
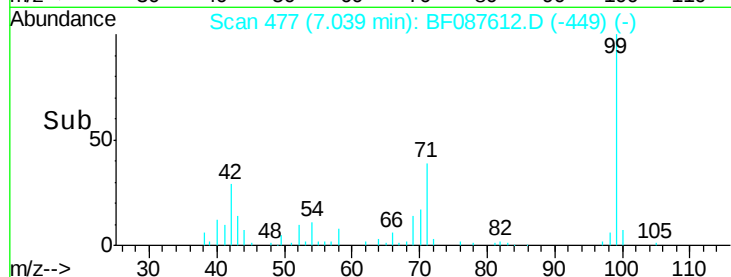
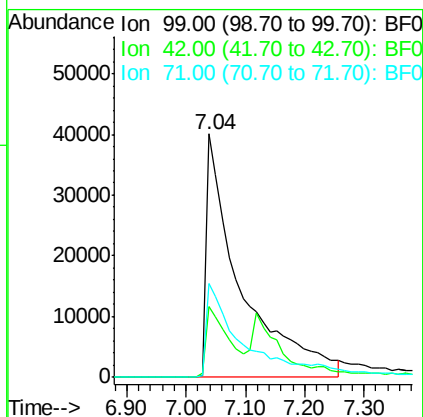
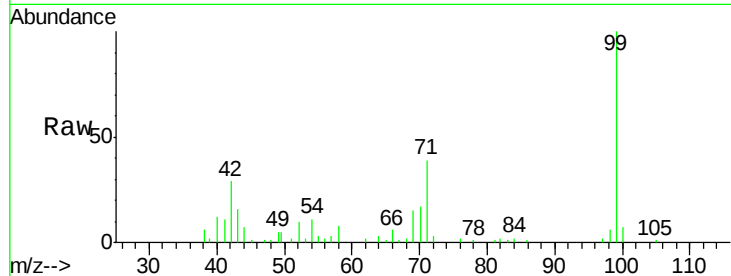
99 100

42 28.9 13.6 20.4#

71 38.7 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.47 min Scan# 690

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion: 136 Resp: 426360

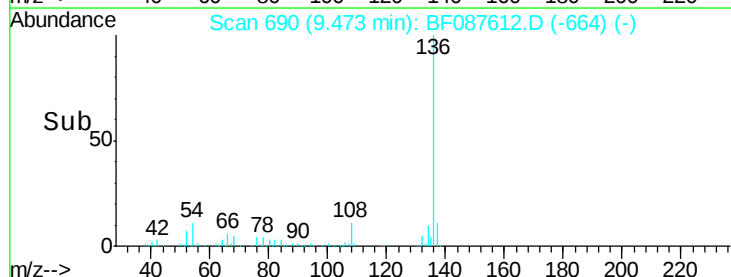
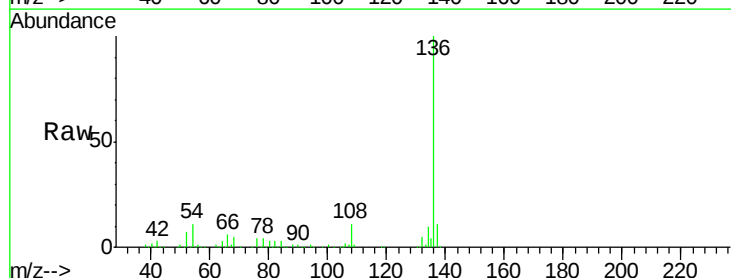
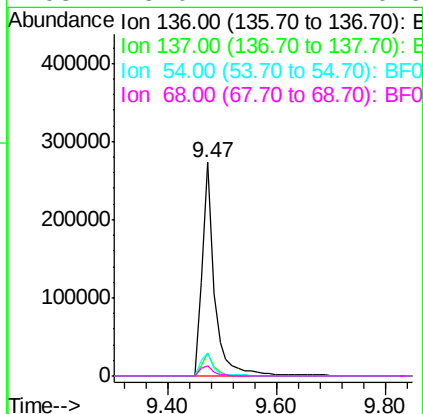
Ion Ratio Lower Upper

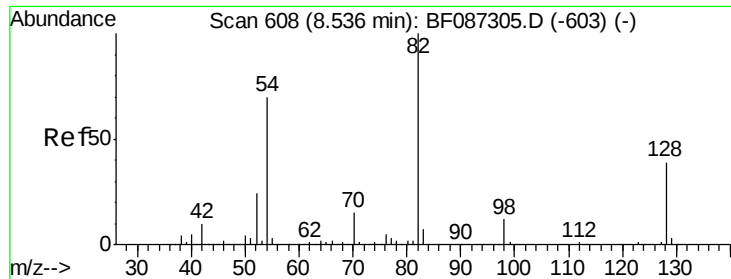
136 100

137 10.7 8.8 13.2

54 10.7 5.0 7.4#

68 5.0 4.4 6.6





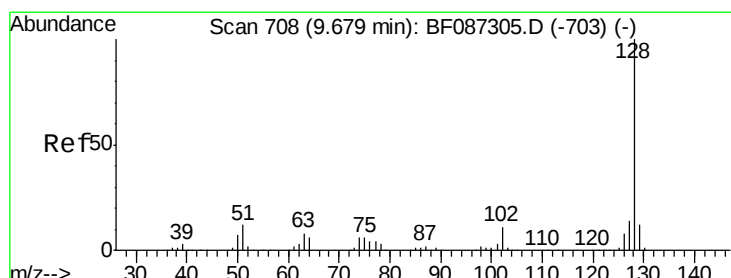
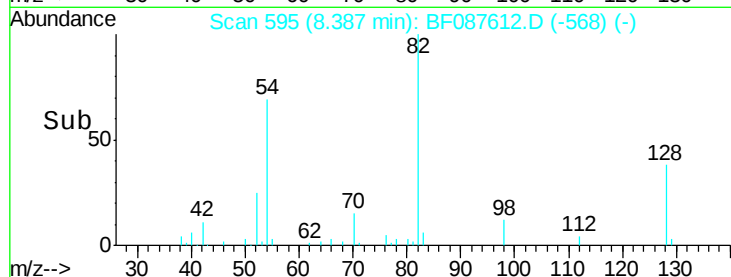
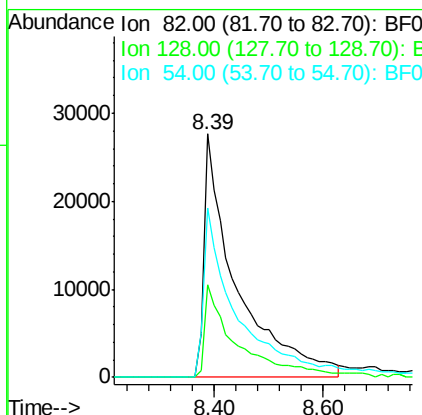
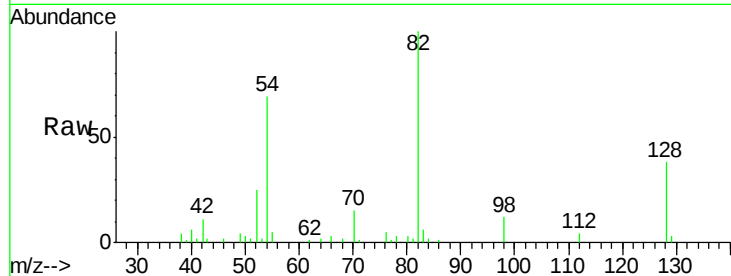
#23
Nitrobenzene-d5
Concen: 13.51 ng
RT: 8.39 min Scan# 595
Delta R.T. 0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.1	40.6	61.0#
54	69.5	38.1	57.1#

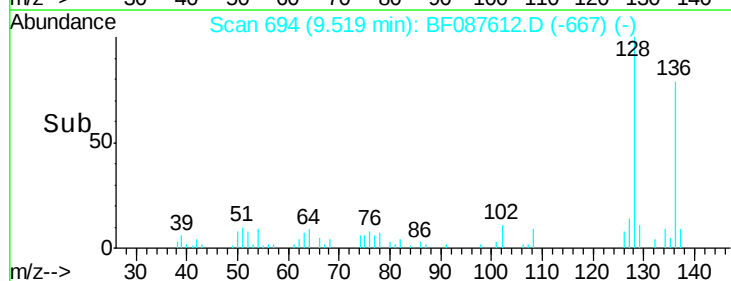
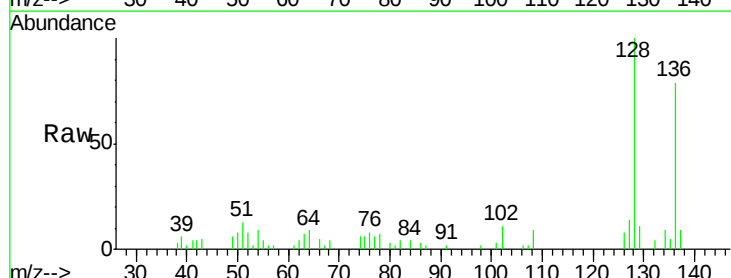
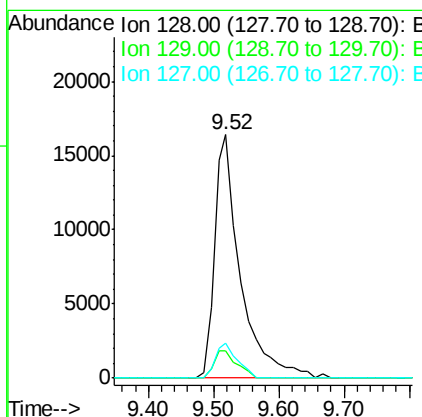
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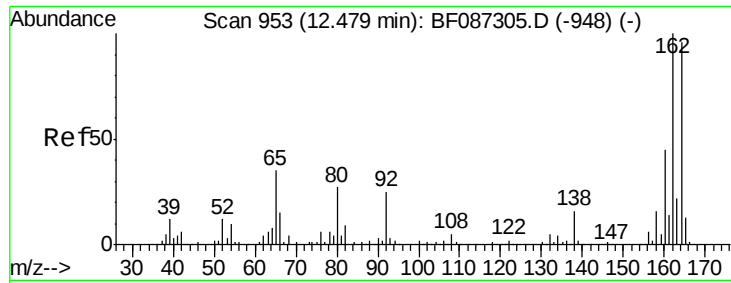
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#31
Naphthalene
Concen: 2.12 ng
RT: 9.52 min Scan# 694
Delta R.T. 0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	13.0
127	14.1	10.8	16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.30 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1705(0-4)

Tot Ion:164 Resp: 181559

Ion Ratio Lower Upper

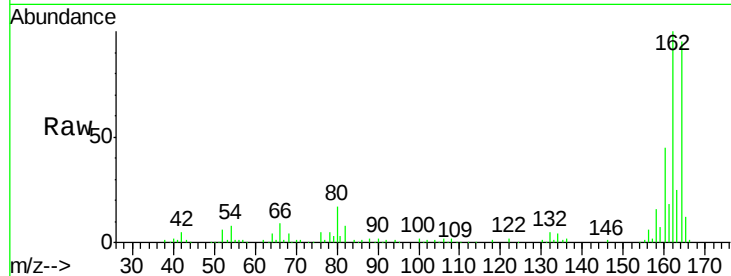
164 100

162 105.5 82.8 124.2

160 47.0 36.9 55.3

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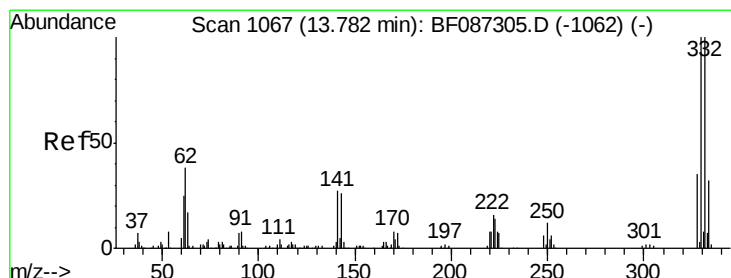
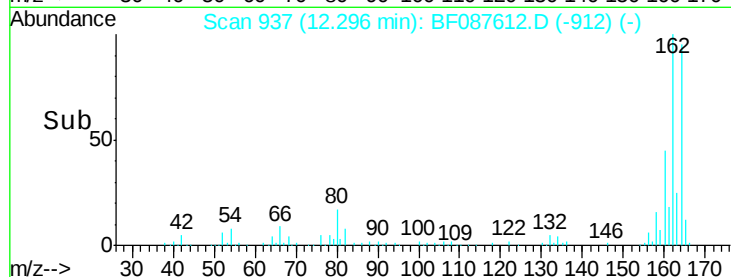
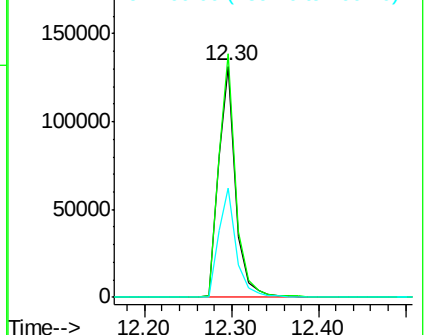
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 15.81 ng

RT: 13.61 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

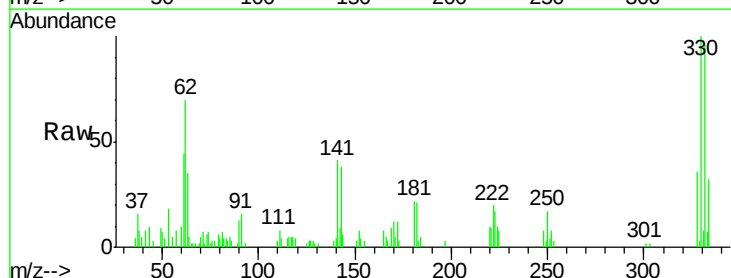
Tgt Ion:330 Resp: 27583

Ion Ratio Lower Upper

330 100

332 95.2 79.0 118.4

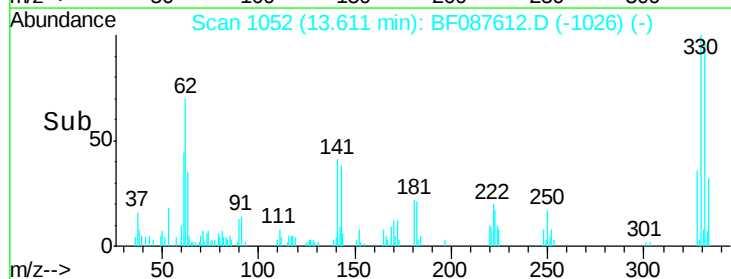
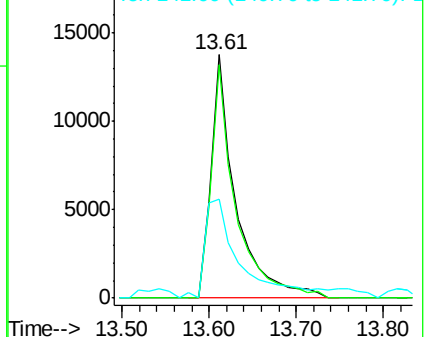
141 57.4 31.2 46.8#

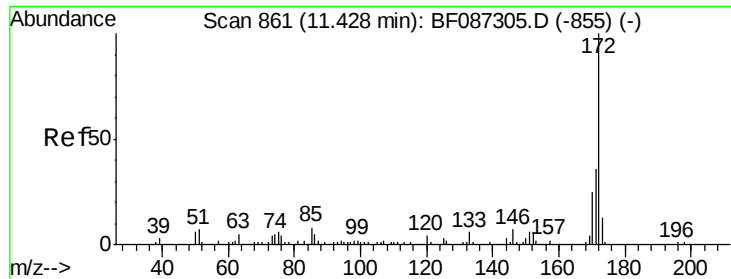


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





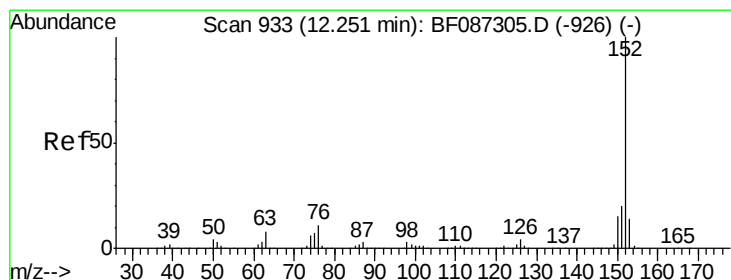
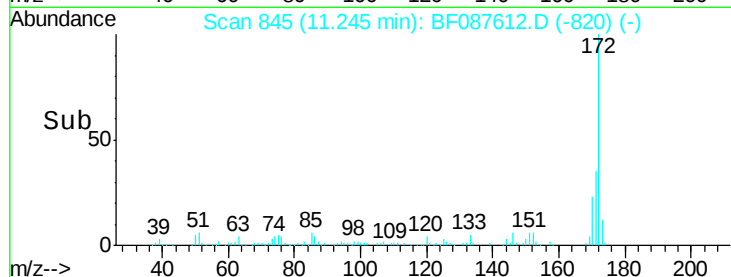
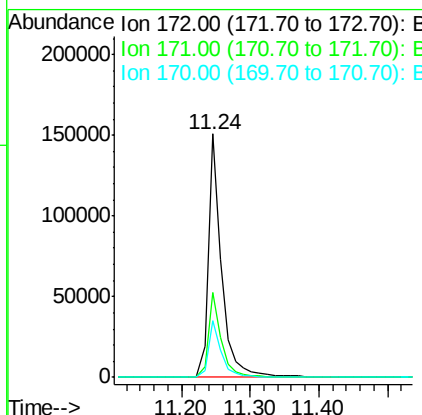
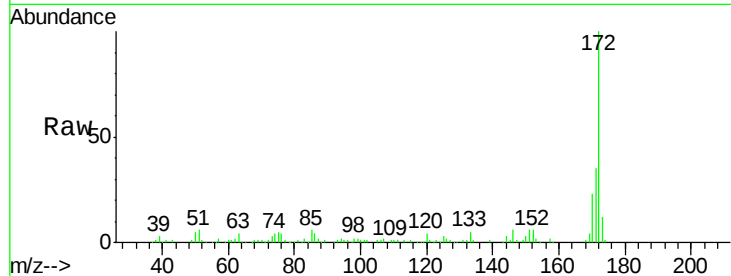
#44
2-Fluorobiphenyl
Concen: 15.79 ng
RT: 11.24 min Scan# 845
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.6
170	23.3	19.8	29.8

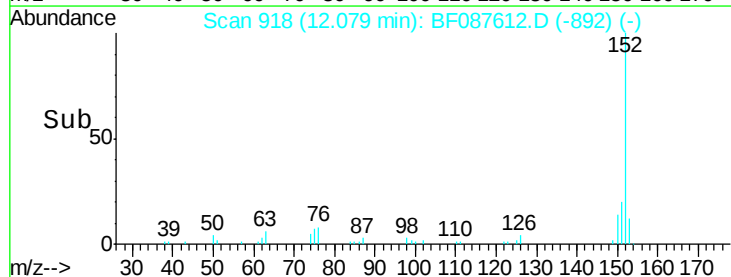
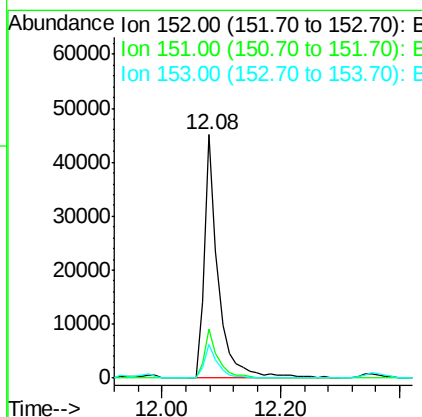
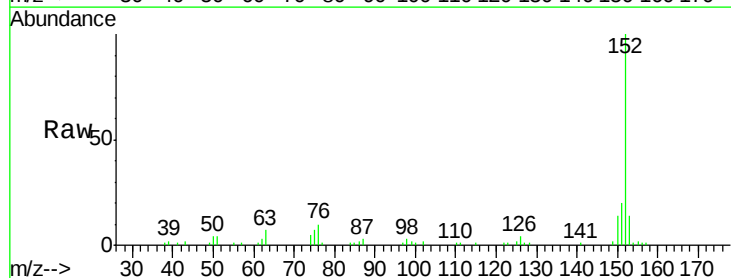
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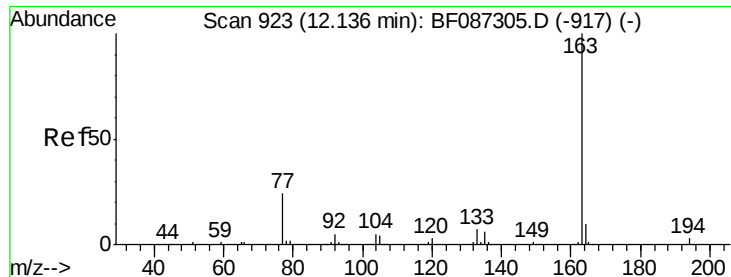
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#48
Acenaphthylene
Concen: 4.03 ng
RT: 12.08 min Scan# 918
Delta R.T. 0.00 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.8	25.2
153	13.6	10.9	16.3





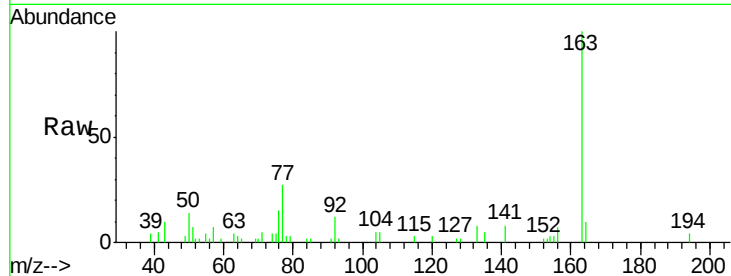
#49
Dimethylphthalate
Concen: 2.15 ng
RT: 11.95 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

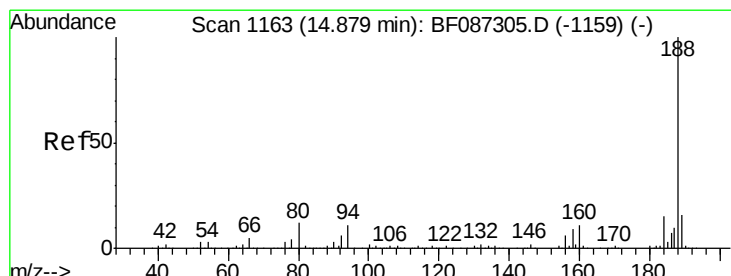
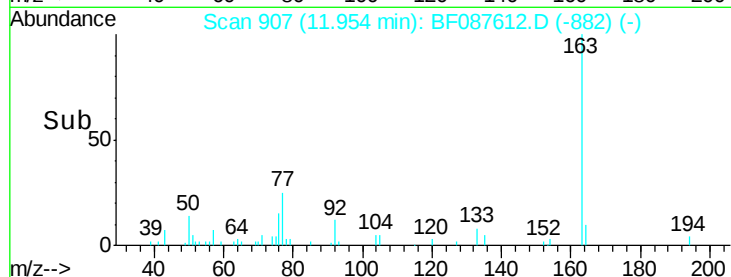
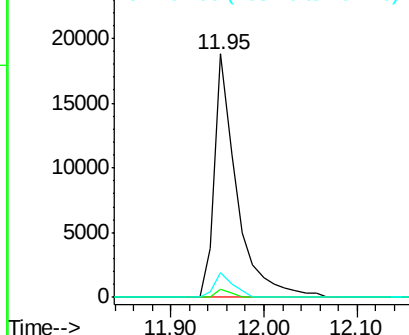
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.5	2.6	4.0	
164	10.1	8.2	12.4	

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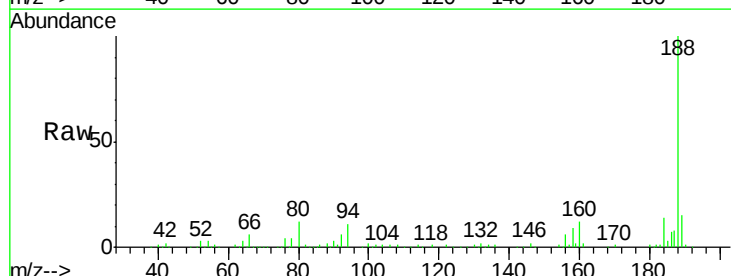


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

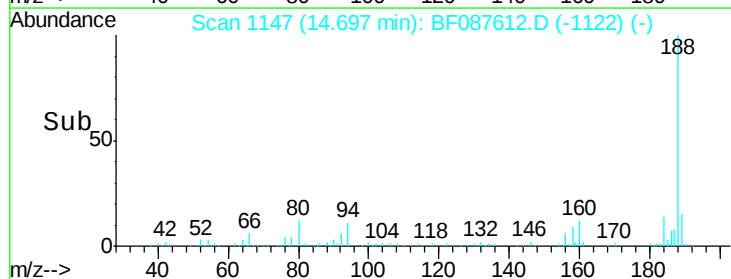
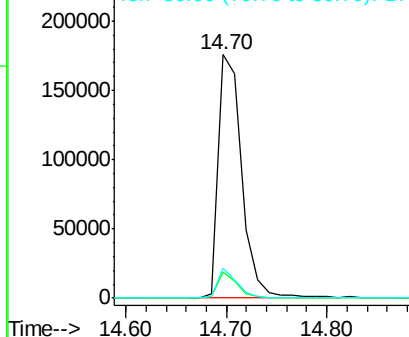


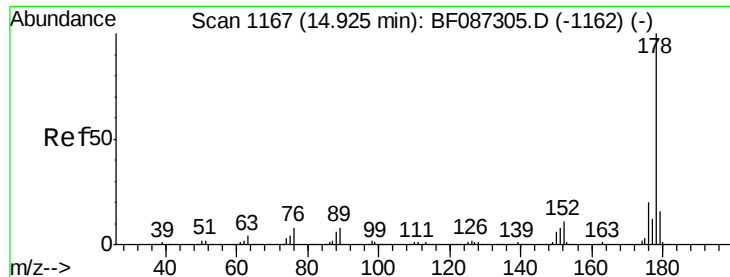
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.6	6.8	10.2#	
80	12.1	7.1	10.7#	



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





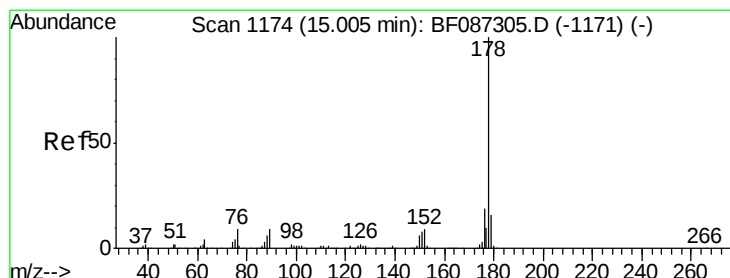
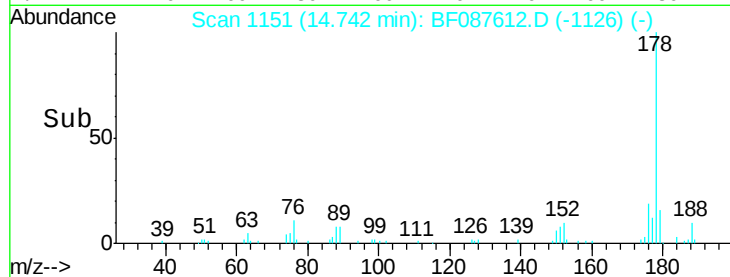
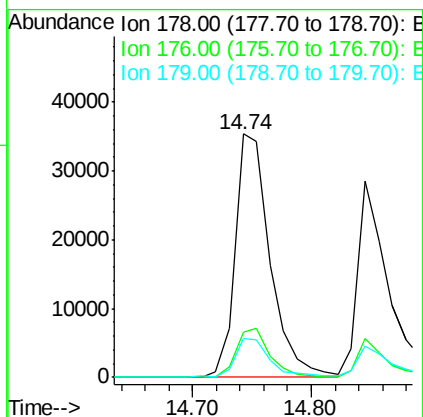
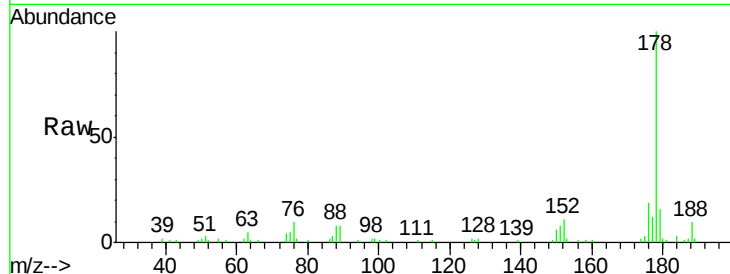
#70
Phenanthrene
Concen: 4.62 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.0	24.0
179	16.1	12.6	18.8

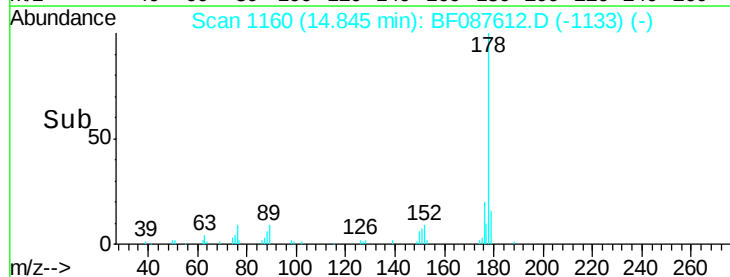
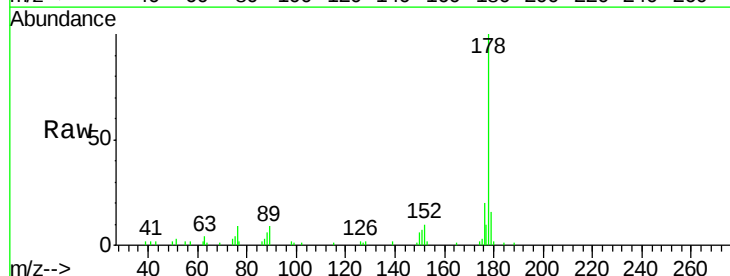
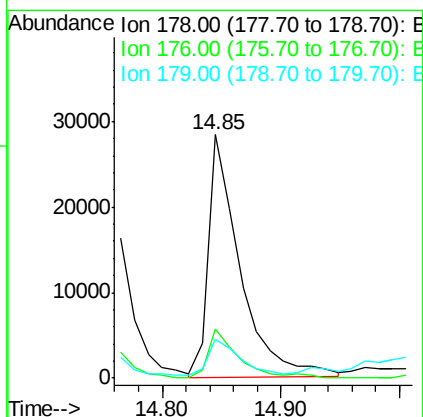
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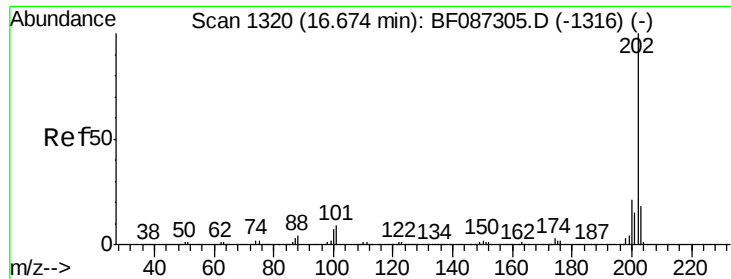
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#71
Anthracene
Concen: 3.28 ng
RT: 14.85 min Scan# 1160
Delta R.T. 0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.6	23.4
179	16.1	12.7	19.1





#74

Fluoranthene

Concen: 18.09 ng

RT: 16.51 min Scan# 1306

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

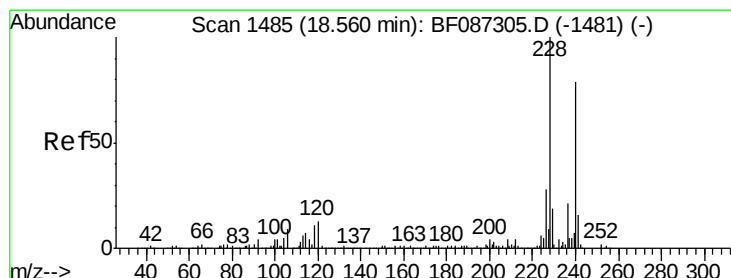
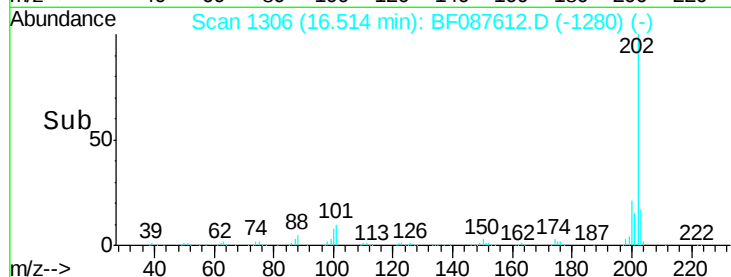
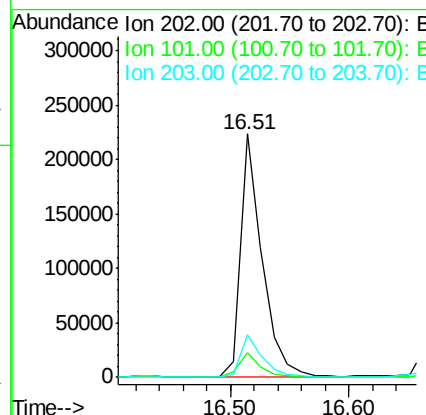
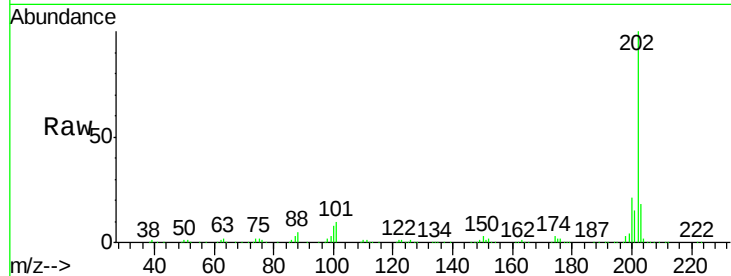
ClientSampleId :

CHS-STA-1705(0-4)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.4	0.0	35.4
203	17.7	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

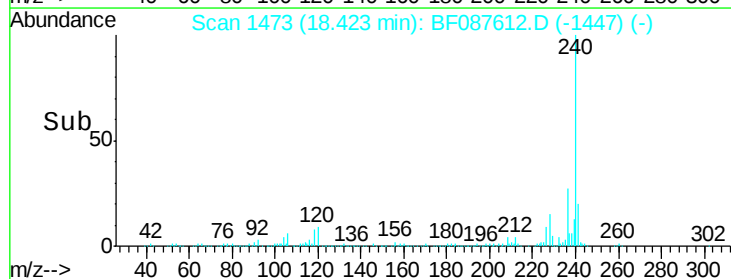
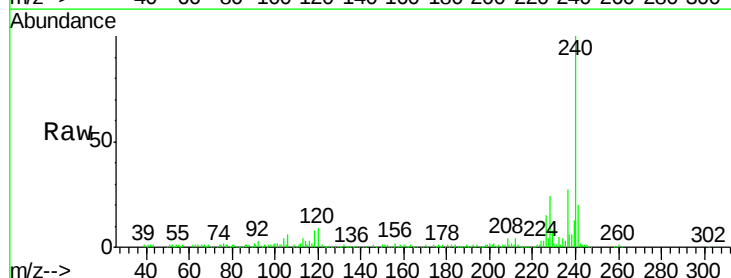
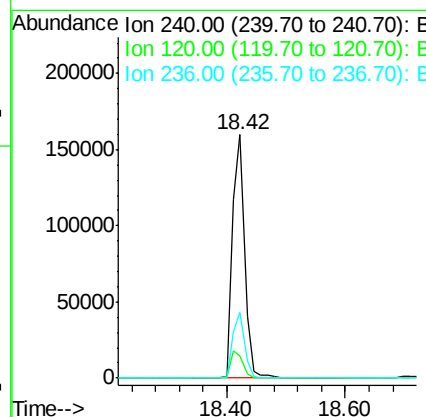
RT: 18.42 min Scan# 1473

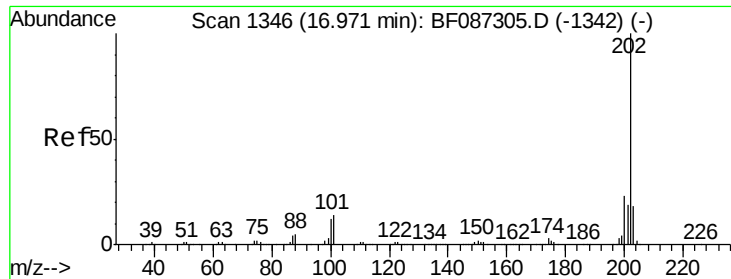
Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.9	11.2	16.8#
236	26.8	21.2	31.8





#77

Pvrene

Concen: 16.10 ng

RT: 16.82 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

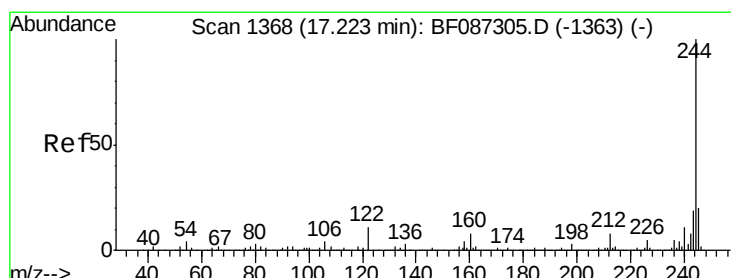
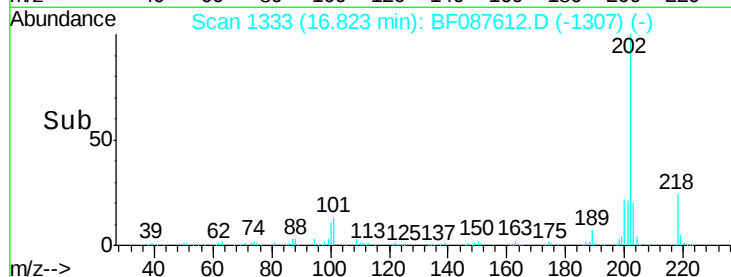
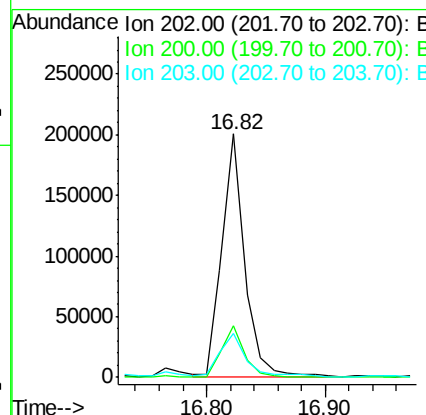
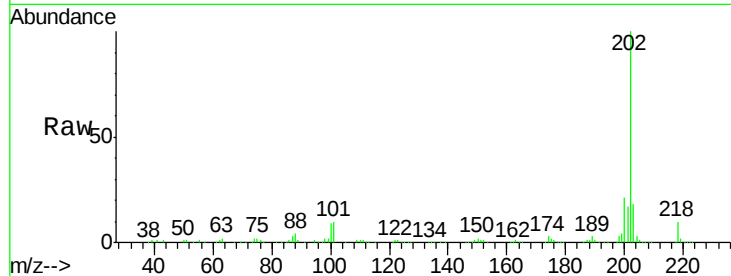
ClientSampleId :

CHS-STA-1705(0-4)

Tot Ion:	202	Resp:	262919
Ion Ratio		Lower	Upper
202	100		
200	21.1	17.7	26.5
203	18.0	14.2	21.4

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#78

Terphenyl-d14

Concen: 10.74 ng

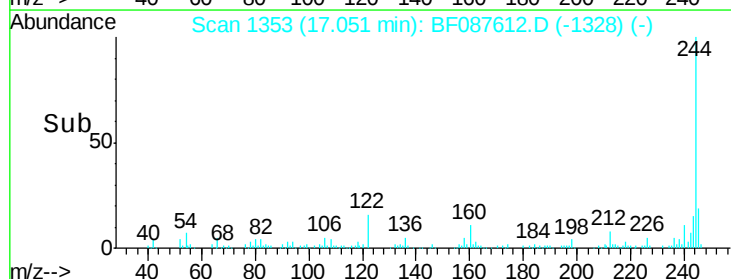
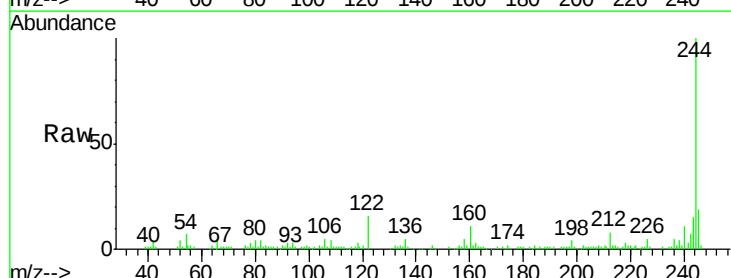
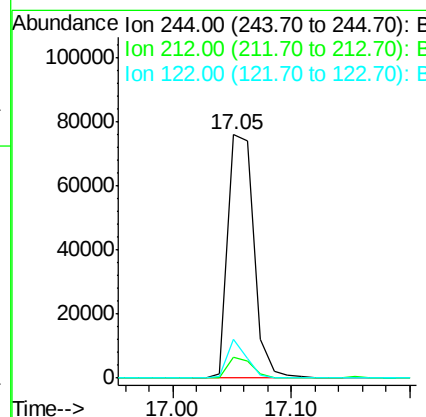
RT: 17.05 min Scan# 1353

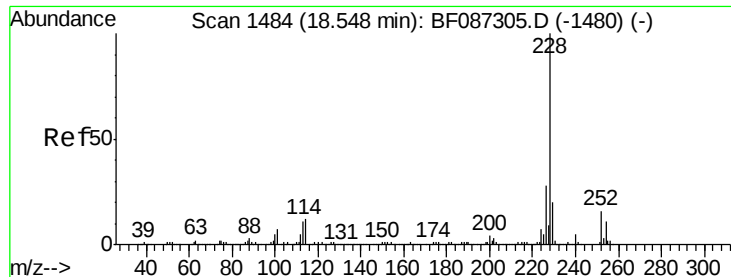
Delta R.T. -0.01 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion:	244	Resp:	114683
Ion Ratio		Lower	Upper
244	100		
212	8.5	6.2	9.2
122	16.0	12.0	18.0





#80

Benzo(a)anthracene

Concen: 14.43 ng

RT: 18.41 min Scan# 1472

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

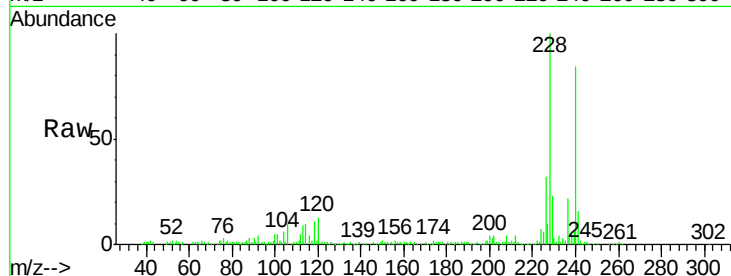
ClientSampleId :

CHS-STA-1705(0-4)

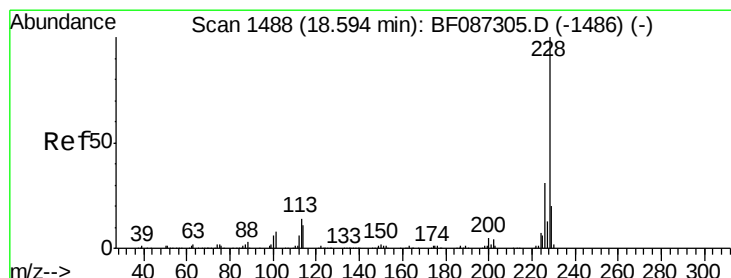
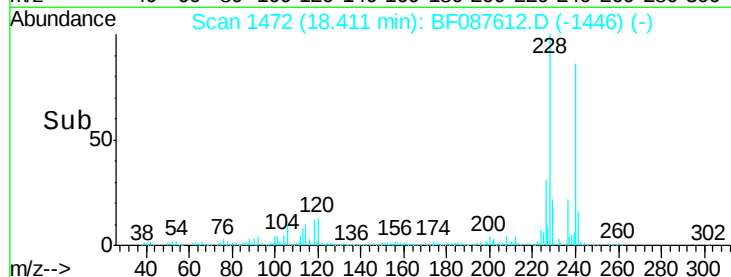
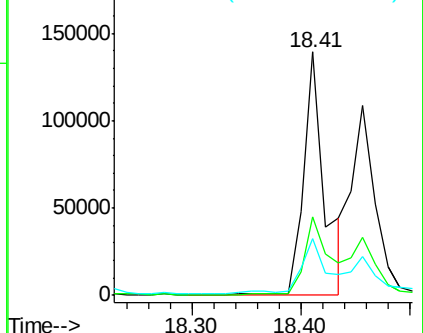
Tot Ion:	228	Resp:	186285
Ion Ratio	Lower	Upper	
228	100		
226	32.0	22.5	33.7
229	23.3	16.6	25.0

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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



#82

Chrysene

Concen: 12.84 ng

RT: 18.46 min Scan# 1476

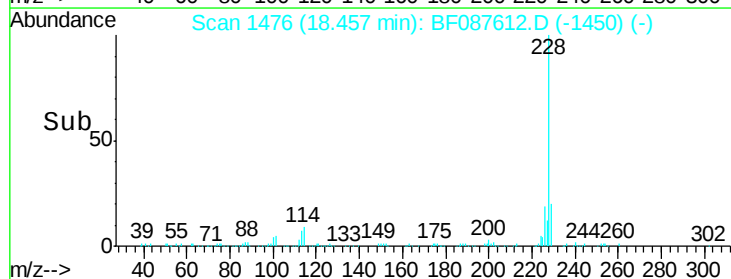
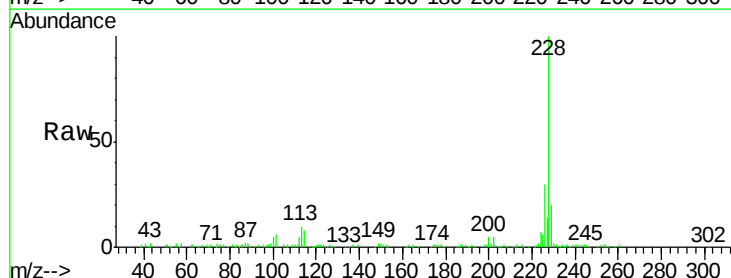
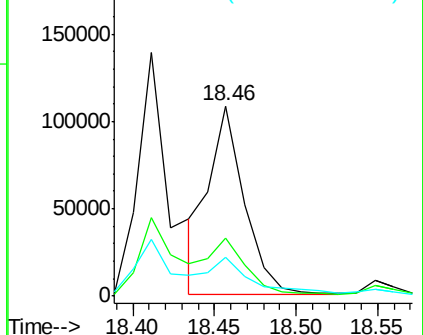
Delta R.T. 0.00 min

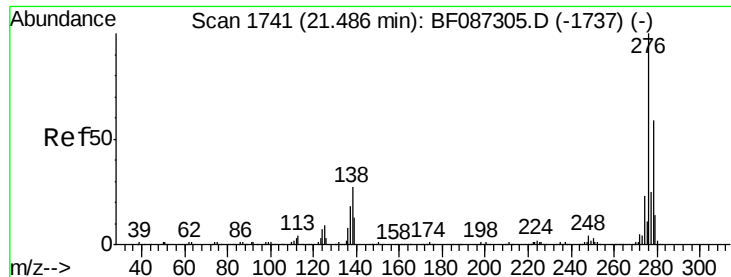
Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion:	228	Resp:	164467
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.4	36.6
229	20.1	15.8	23.8

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





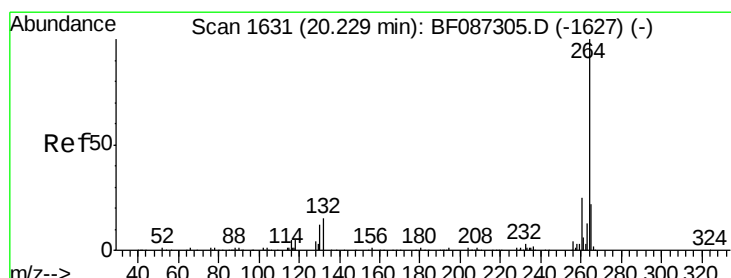
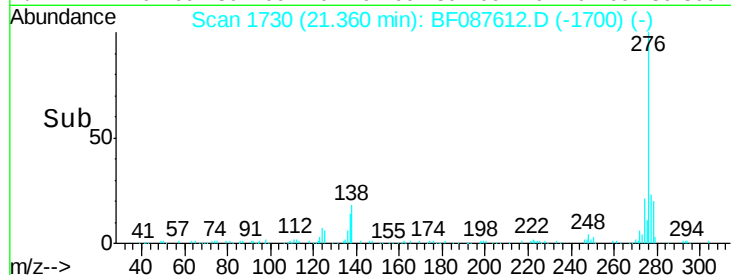
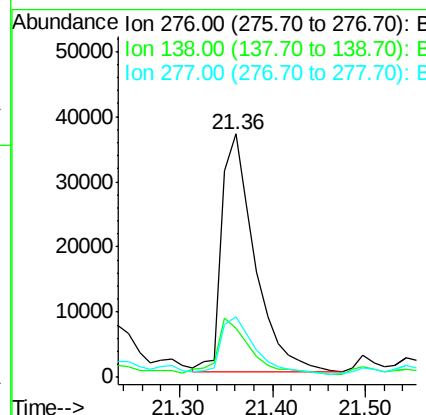
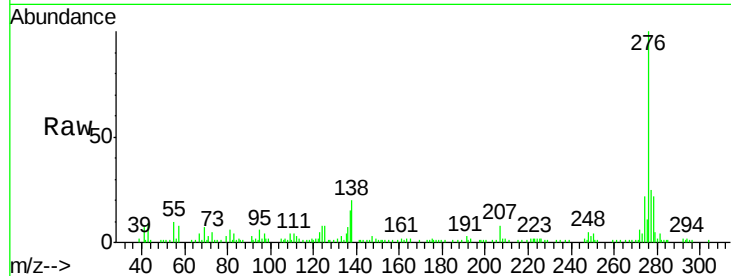
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.73 ng
RT: 21.36 min Scan# 1730
Delta R.T. 0.05 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.5	25.6	38.4#
277	25.0	20.5	30.7

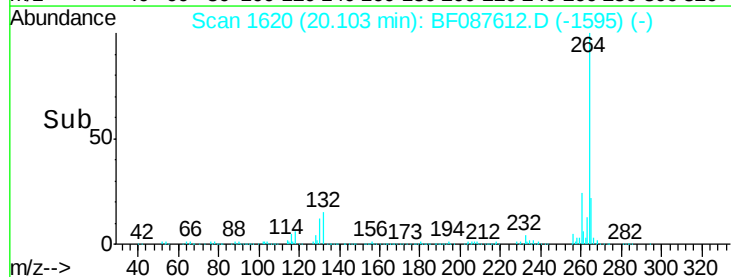
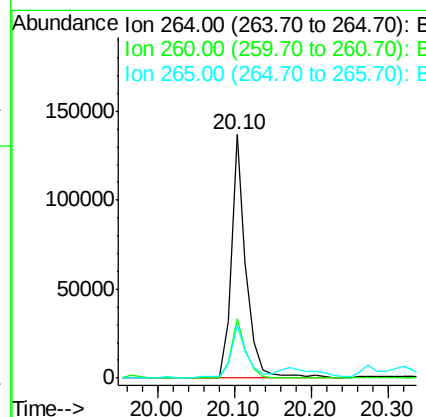
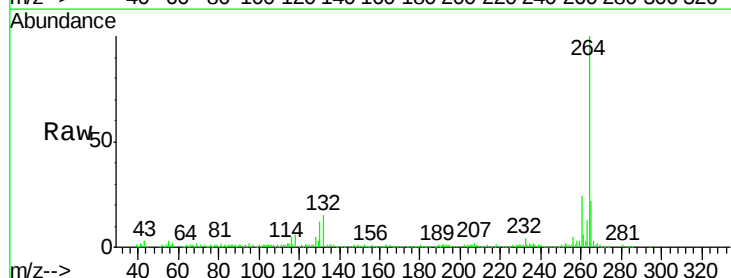
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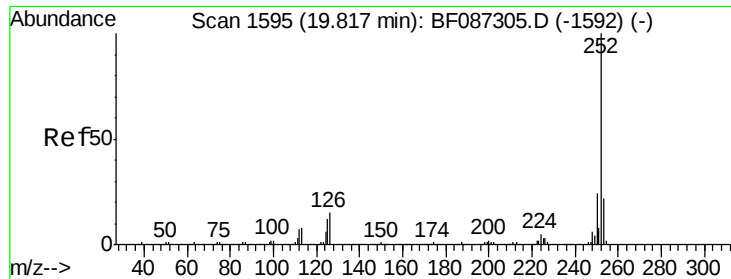
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#86
Perylene-d12
Concen: 20.00 ng
RT: 20.10 min Scan# 1620
Delta R.T. -0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	21.8	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 23.37 ng m

RT: 19.69 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Instrument :

BNA_F

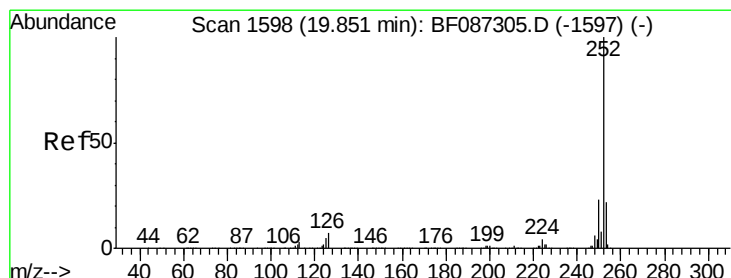
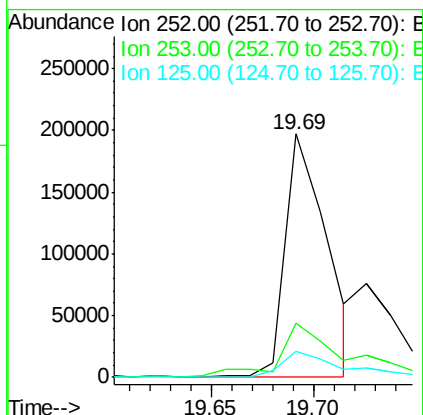
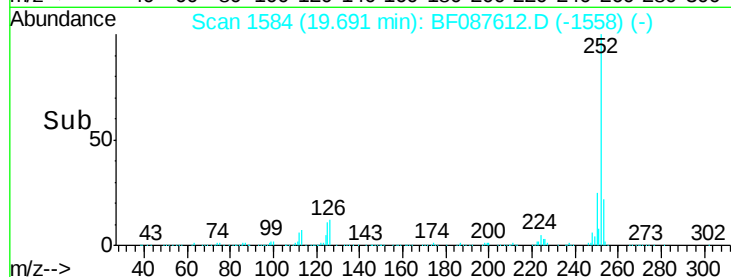
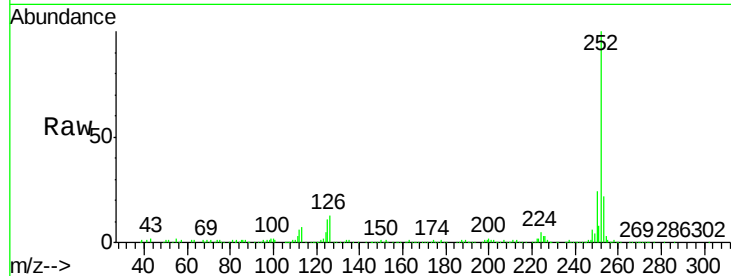
ClientSampleId :

CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.9	11.4	17.0

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#88

Benzo(k)fluoranthene

Concen: 10.39 ng m

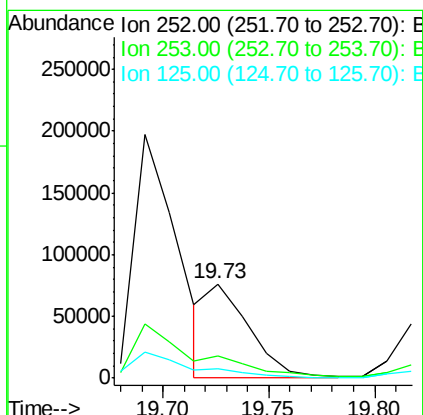
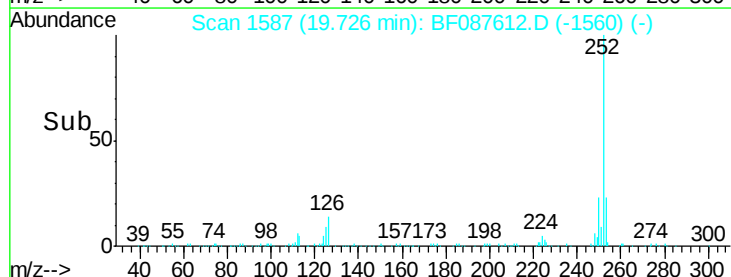
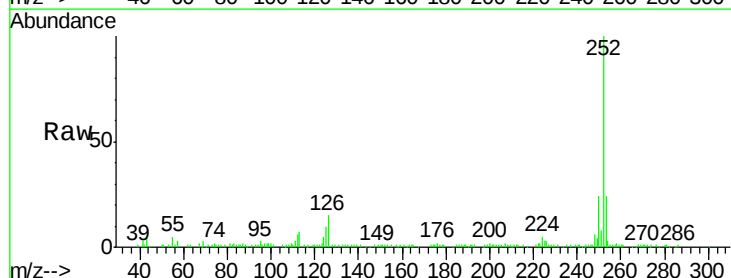
RT: 19.73 min Scan# 1587

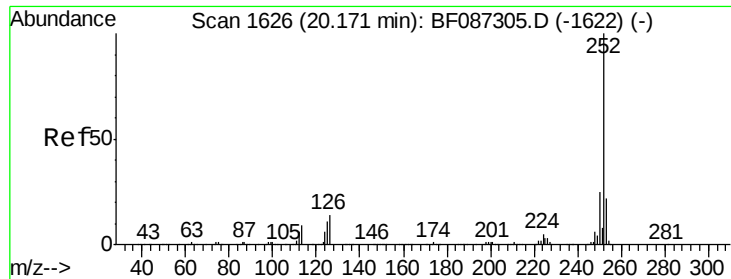
Delta R.T. 0.01 min

Lab File: BF087612.D

Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	10.1	9.1	13.7





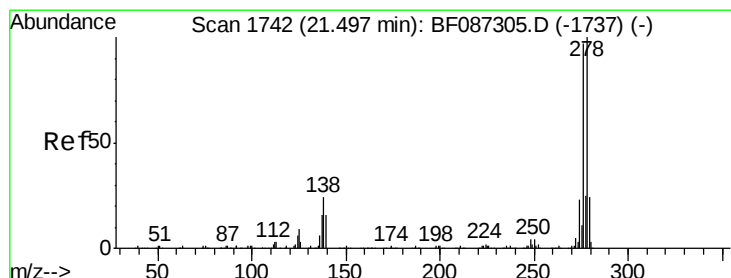
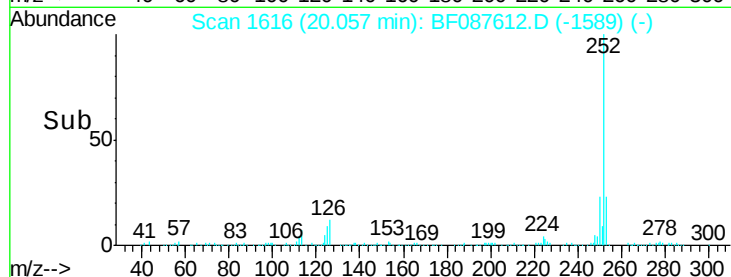
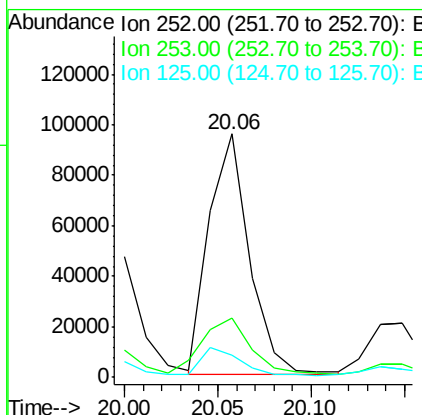
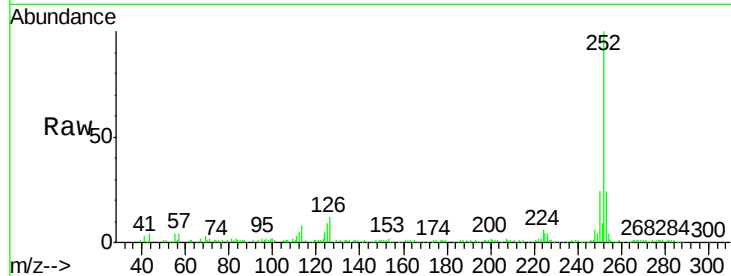
#89
Benzo(a)pyrene
Concen: 14.08 ng
RT: 20.06 min Scan# 1616
Delta R.T. 0.01 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.2	25.8
125	9.1	9.0	13.6

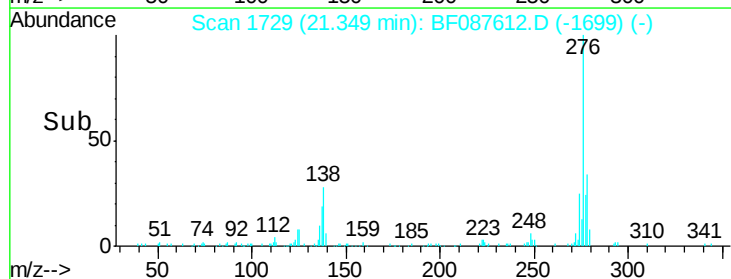
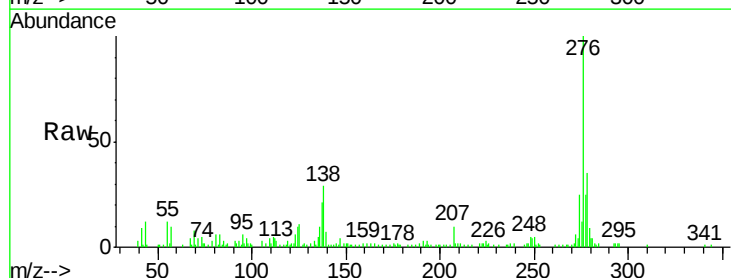
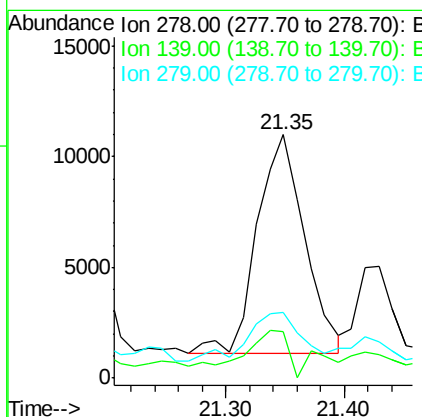
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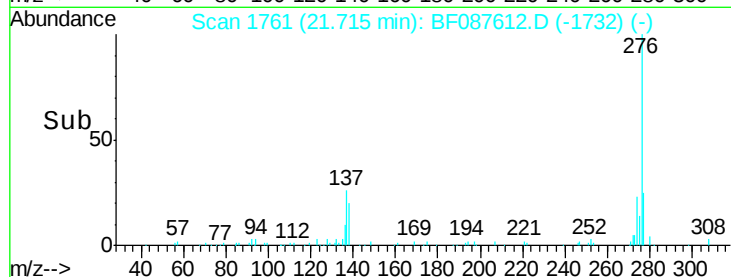
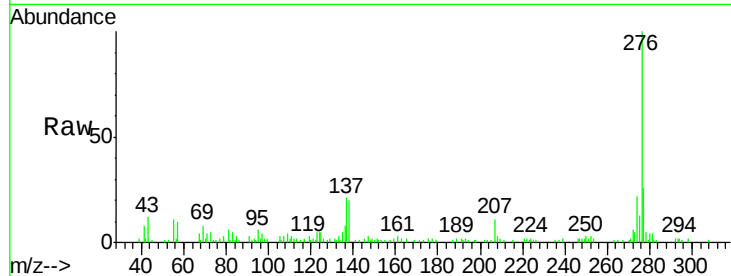
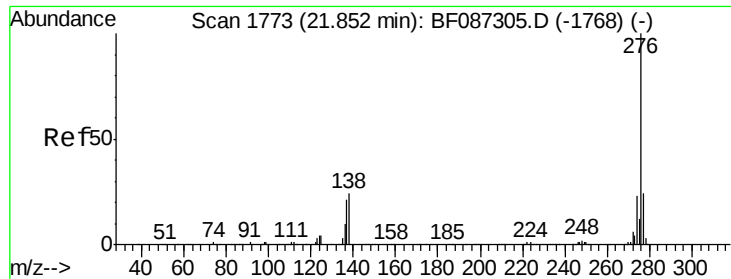
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#90
Dibenzo(a,h)anthracene
Concen: 3.11 ng
RT: 21.35 min Scan# 1729
Delta R.T. 0.05 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.0	16.6	24.8
279	27.0	19.6	29.4





#91
Benzo(a,h,i)perylene
Concen: 8.59 ng
RT: 21.71 min Scan# 1761
Delta R.T. 0.03 min
Lab File: BF087612.D
Acq: 1 Jun 2016 8:53

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.6	29.4
138	20.0	23.6	35.4

Manual Integrations
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