

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089906.D
 Acq On : 25 Aug 2016 6:51
 Operator : UM/SJ
 Sample : H4566-05 5X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Manual Integrations
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Quant Time: Aug 25 17:34:42 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	476955	20.00	ng	-0.01
21) Naphthalene-d8	7.95	136	1817125	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	799385	20.00	ng	-0.01
63) Phenanthrene-d10	11.19	188	1445786	20.00	ng	0.00
75) Chrysene-d12	13.87	240	953043	20.00	ng	0.00
86) Perylene-d12	15.39	264	1066513	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	662847	23.83	ng	-0.02
7) Phenol-d6	6.30	99	773132	22.65	ng	-0.02
23) Nitrobenzene-d5	7.23	82	457204	15.63	ng	-0.02
41) 2,4,6-Tribromophenol	10.49	330	173172	22.79	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	921039	20.25	ng	-0.01
78) Terphenyl-d14	12.78	244	648086	15.38	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	9.44	163	289189	5.14	ng	97
51) Acenaphthene	9.74	154	98898	2.03	ng	98
70) Phenanthrene	11.21	178	1207384	16.53	ng	99
71) Anthracene	11.26	178	315677	4.25	ng	97
72) Carbazole	11.42	167	157345	2.36	ng	# 96
74) Fluoranthene	12.39	202	1703568	24.53	ng	94
77) Pyrene	12.62	202	1428140	18.40	ng	98
80) Benzo(a)anthracene	13.86	228	742204	13.60	ng	100
82) Chrysene	13.90	228	680505m	14.54	ng	
85) Indeno(1,2,3-cd)pyrene	16.69	276	468001	7.84	ng	94
87) Benzo(b)fluoranthene	15.01	252	1048586m	17.87	ng	
88) Benzo(k)fluoranthene	15.03	252	302438m	5.68	ng	
89) Benzo(a)pyrene	15.34	252	710363	12.79	ng	97
90) Dibenzo(a,h)anthracene	16.70	278	134818m	2.24	ng	
91) Benzo(a,h,i)perylene	17.07	276	440396	6.94	ng	96

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

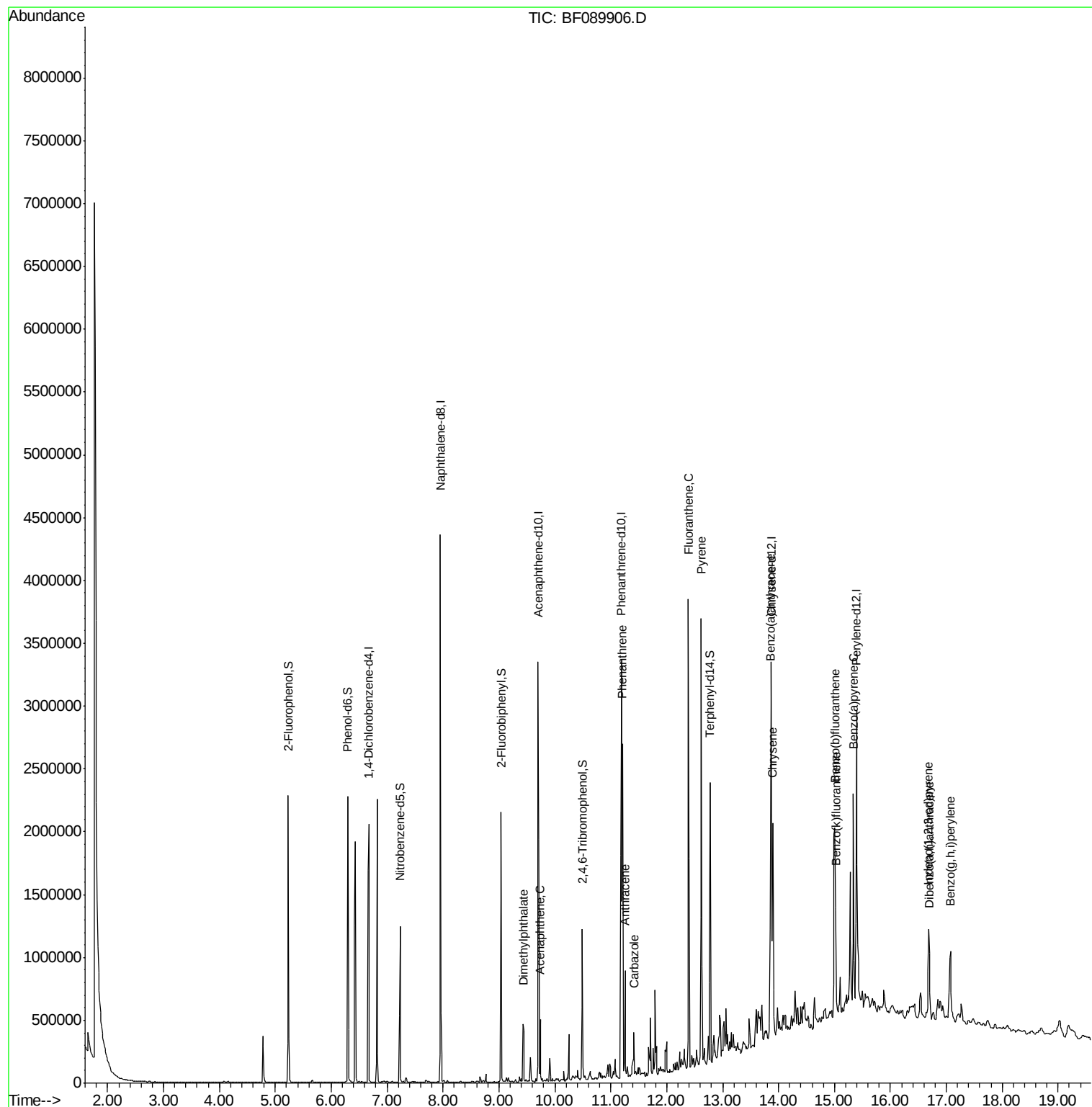
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
Data File : BF089906.D
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ALS Vial : 41 Sample Multiplier: 1

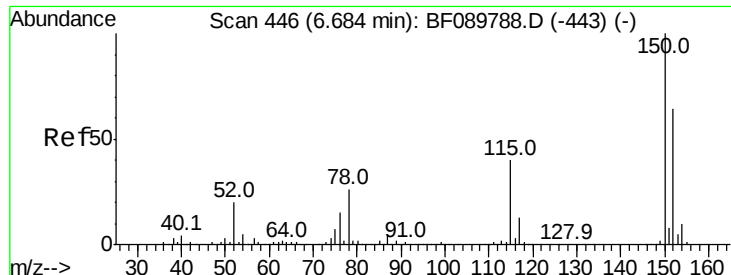
Instrument :
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WC2-E-5-02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

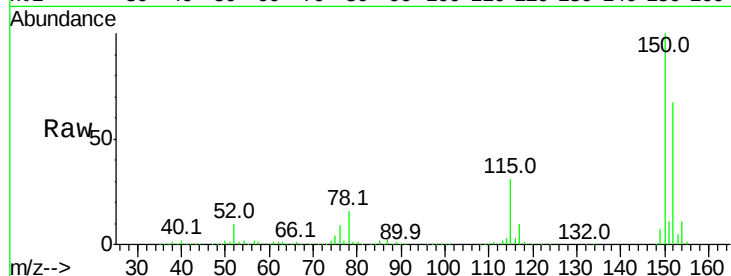
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.67 min Scan# 445
Delta R.T. -0.01 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

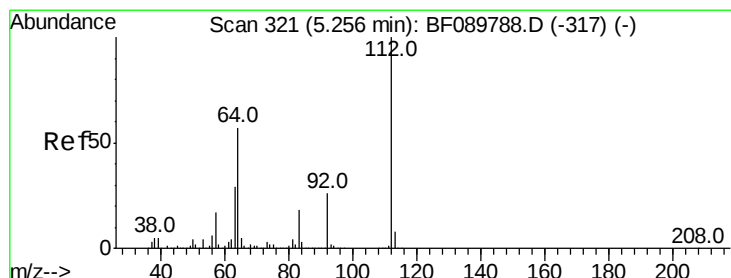
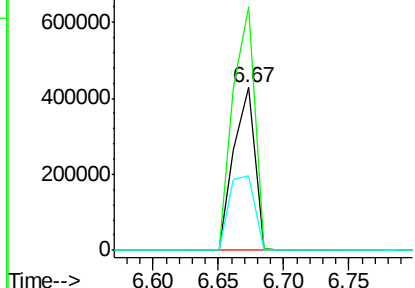
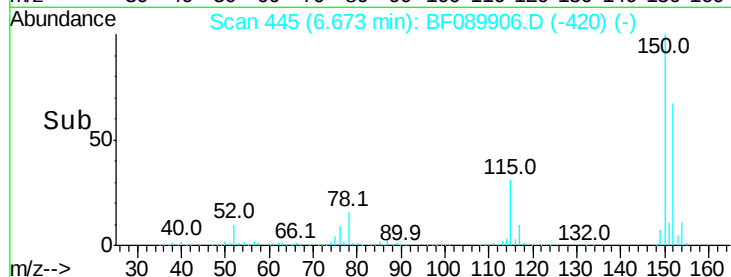
Tot Ion	Ratio	Lower	Upper
152	100		
150	149.9	125.3	187.9
115	46.3	40.9	61.3

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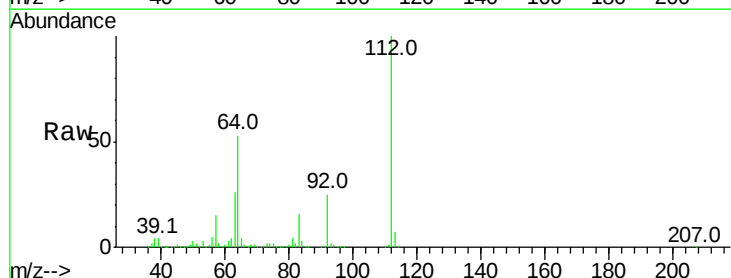
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



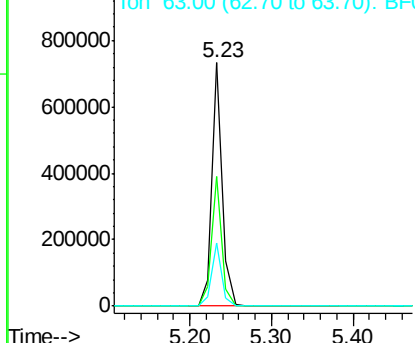
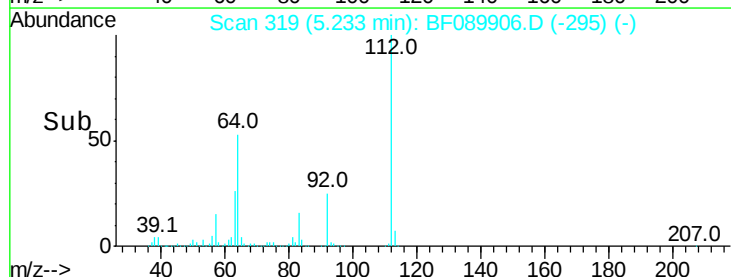
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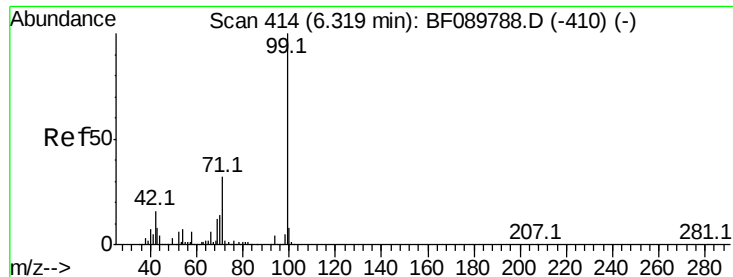
2-Fluorophenol
Concen: 23.83 ng
RT: 5.23 min Scan# 319
Delta R.T. -0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	45.0	67.4
63	26.0	23.1	34.7



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: 22.65 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

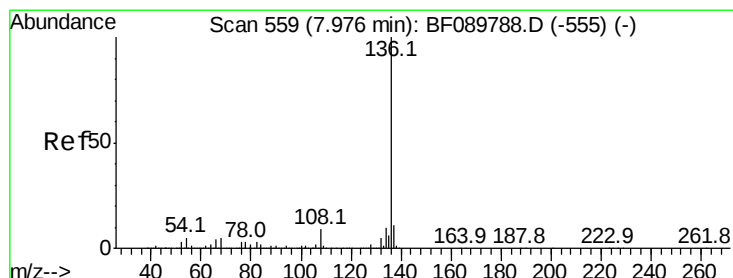
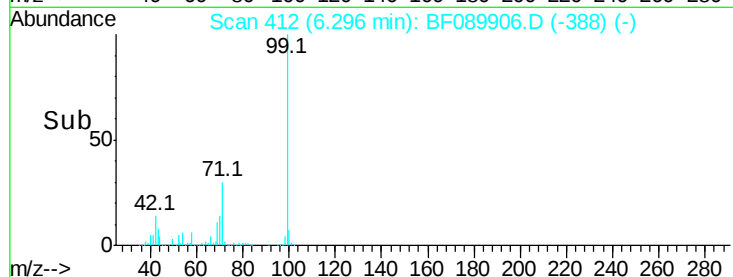
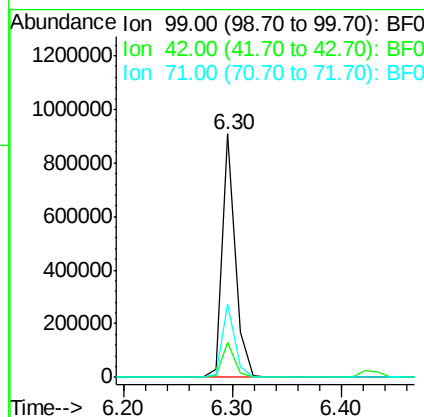
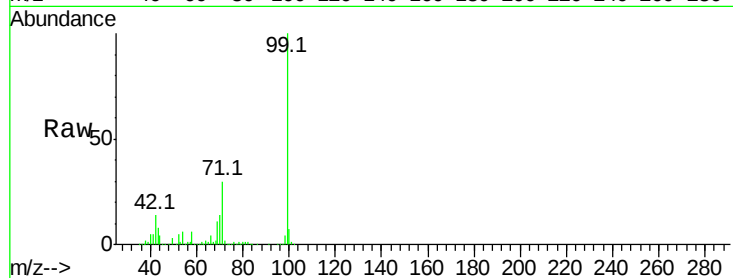
ClientSampleId :

WC2-E-5-02

Tot Ion:	99	Resp:	773132
Ion Ratio	Lower	Upper	
99	100		
42	14.3	12.2	18.4
71	30.2	23.8	35.8

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#21

Naphthalene-d8

Concen: 20.00 ng

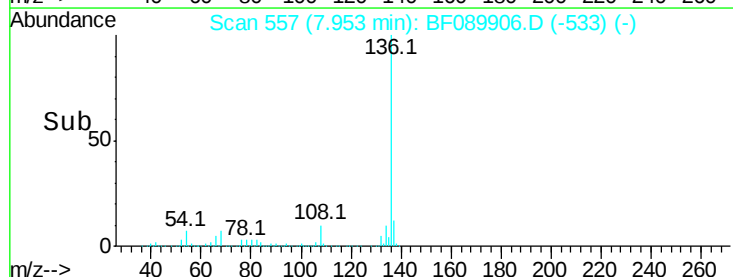
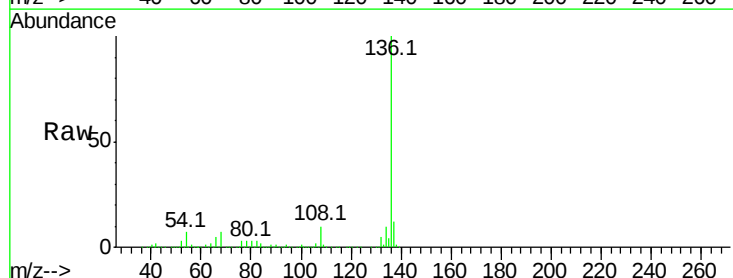
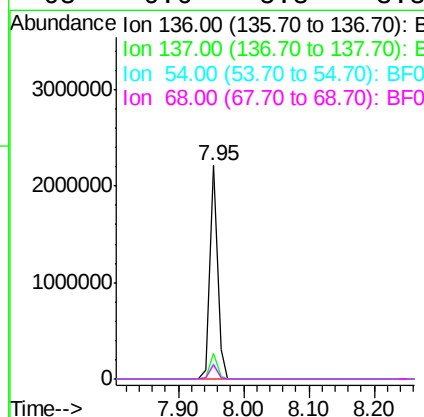
RT: 7.95 min Scan# 557

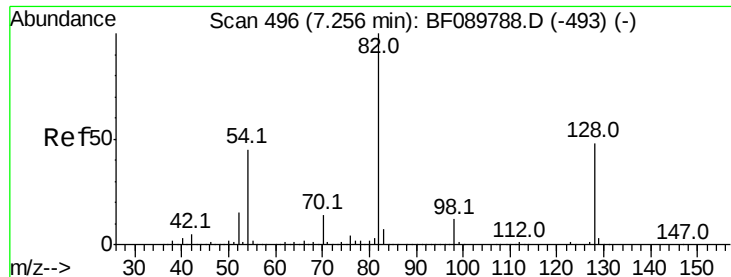
Delta R.T. -0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Tgt Ion:	136	Resp:	1817125
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.2	13.8
54	7.0	7.2	10.8#
68	6.6	5.8	8.8





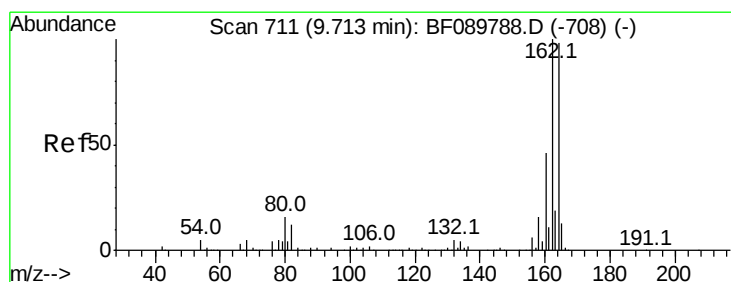
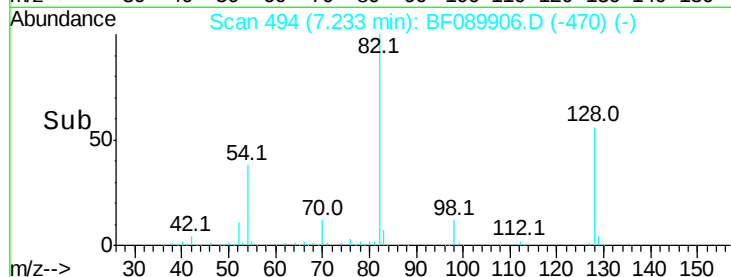
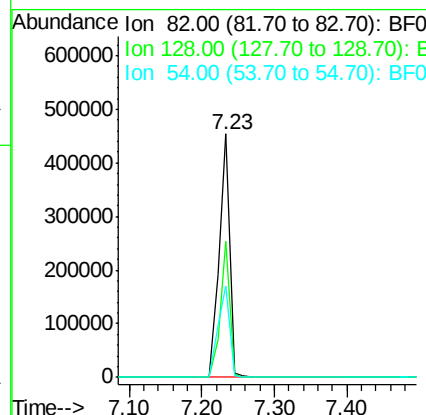
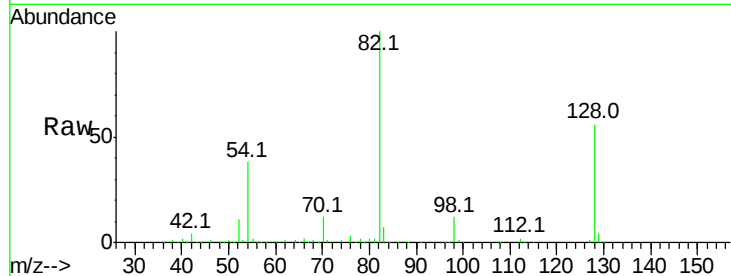
#23
 Nitrobenzene-d5
 Concen: 15.63 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.02 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Tot Ion	Ratio	Lower	Upper
82	100		
128	55.9	34.4	51.6#
54	37.7	40.3	60.5#

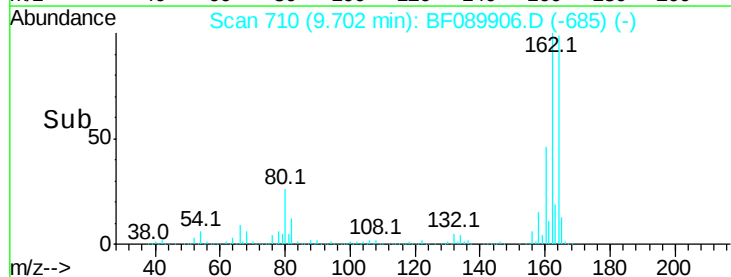
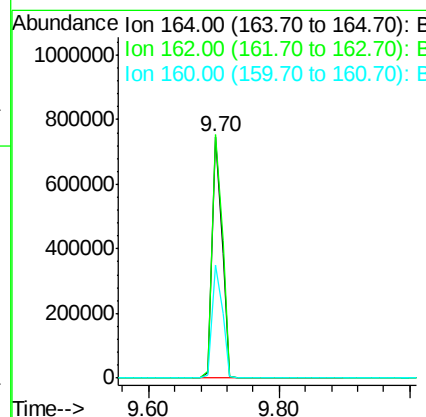
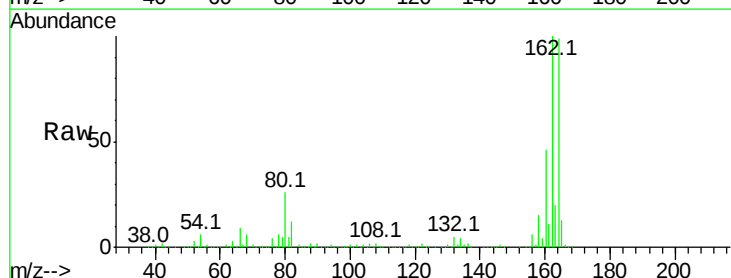
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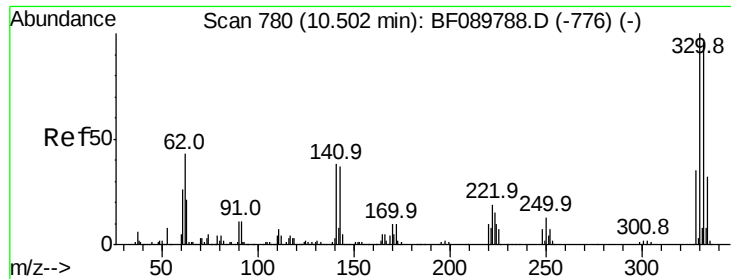
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.4	122.2
160	46.7	37.8	56.6





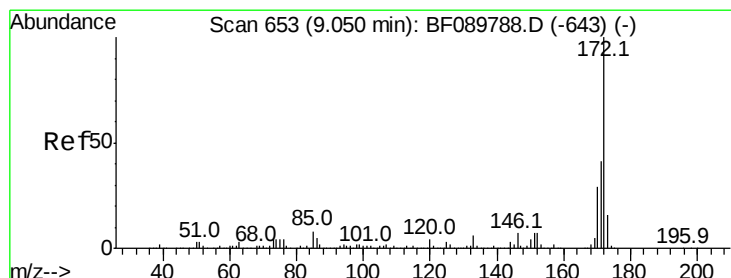
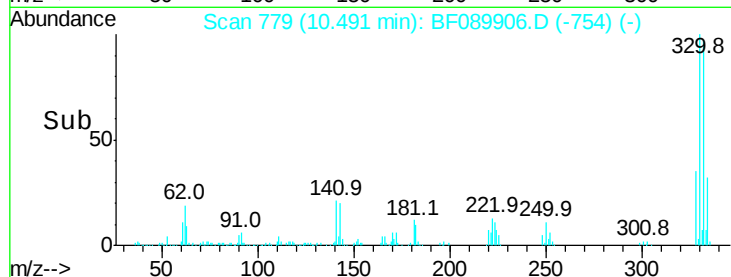
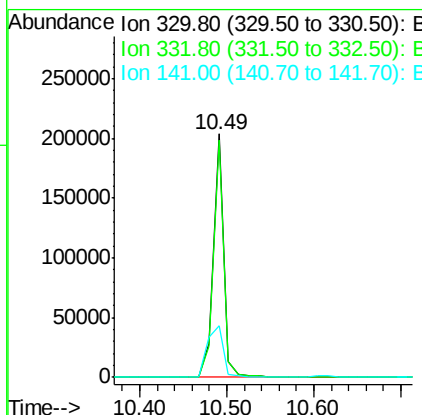
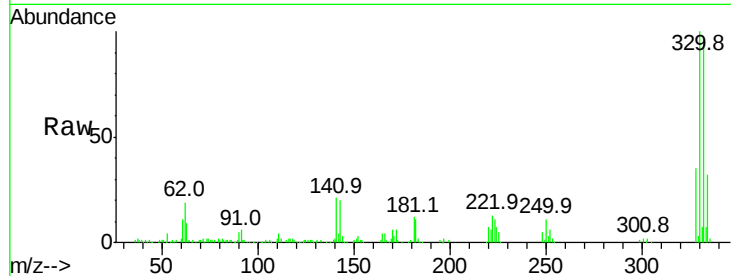
#41
 2,4,6-Tribromophenol
 Concen: 22.79 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Tot Ion	Ratio	Resp	Lower	Upper
330	100	173172		
332	96.4	76.7	115.1	
141	33.4	30.2	45.2	

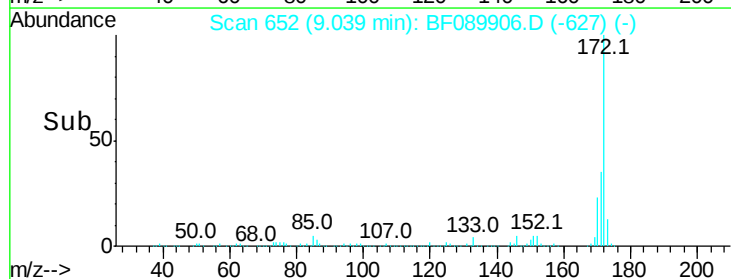
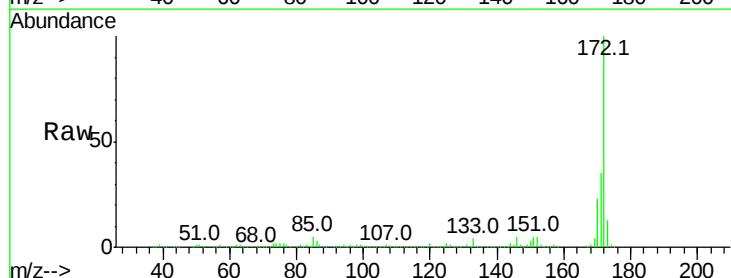
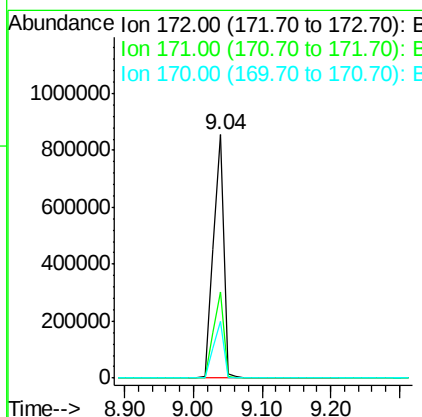
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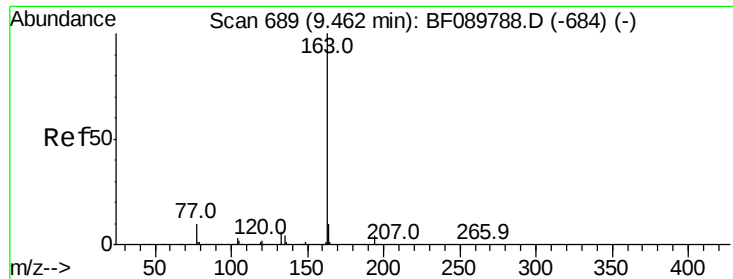
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#44
 2-Fluorobiphenyl
 Concen: 20.25 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	921039		
171	35.2	30.5	45.7	
170	23.3	20.6	31.0	





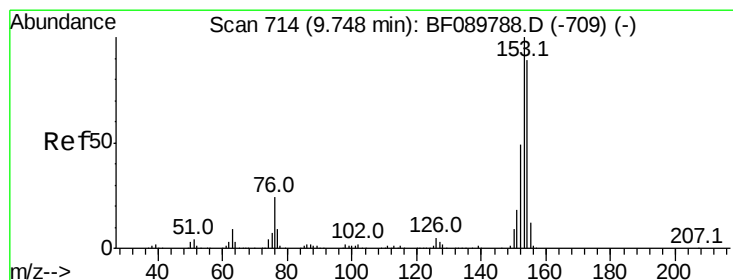
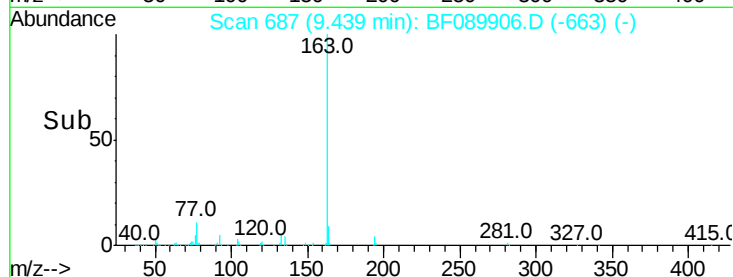
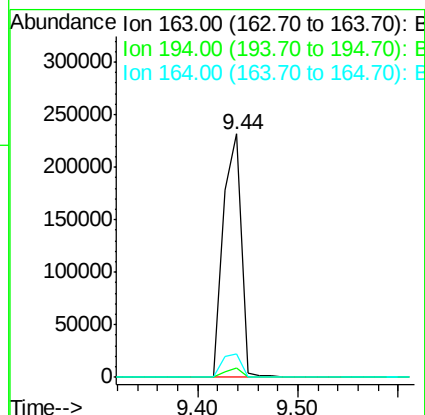
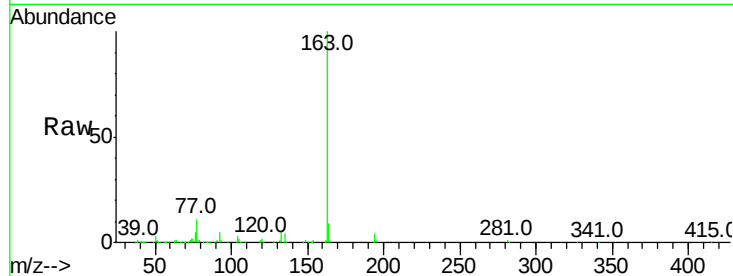
#49
Dimethylphthalate
Concen: 5.14 ng
RT: 9.44 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tot Ion	Ratio	Resp	Lower	Upper
163	100	289189		
194	3.8		2.6	3.8
164	9.4		8.6	12.8

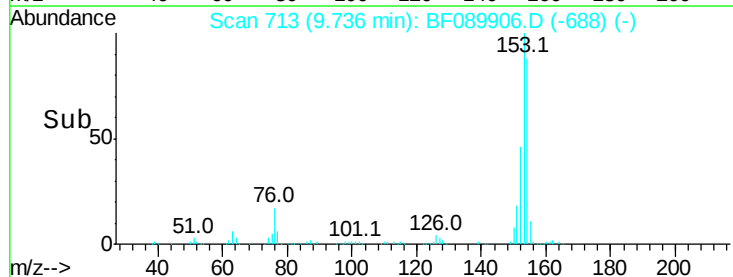
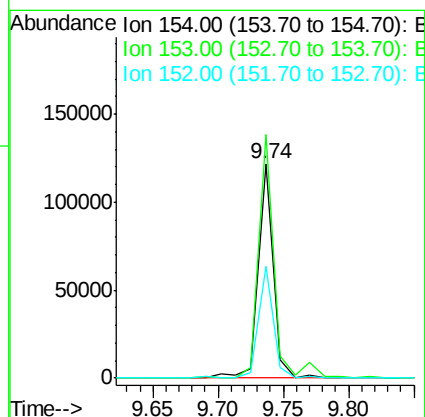
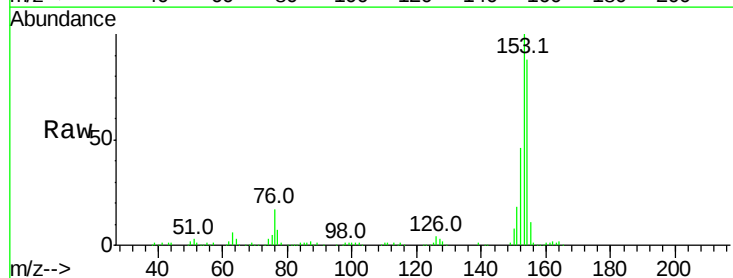
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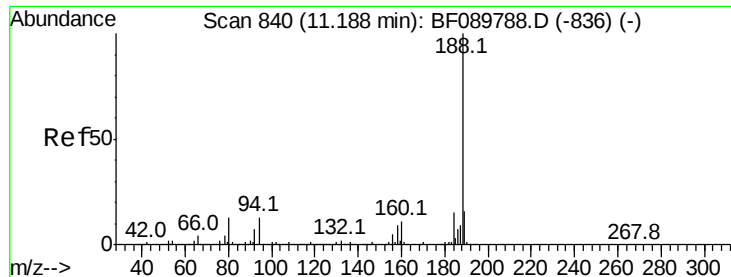
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#51
Acenaphthene
Concen: 2.03 ng
RT: 9.74 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	98898		
153	113.4		90.5	135.7
152	52.2		44.6	67.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

Tot Ion:188 Resp: 1445786

Ion Ratio Lower Upper

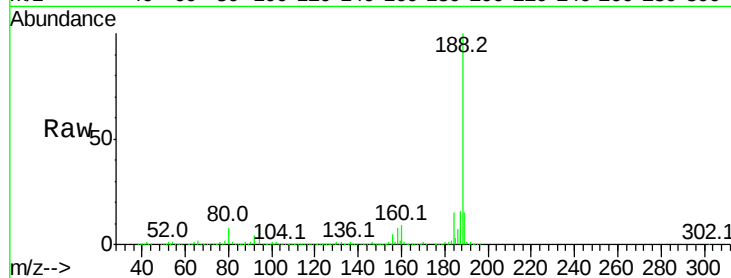
188 100

94 7.7 10.2 15.2#

80 7.6 10.9 16.3#

Manual Integrations
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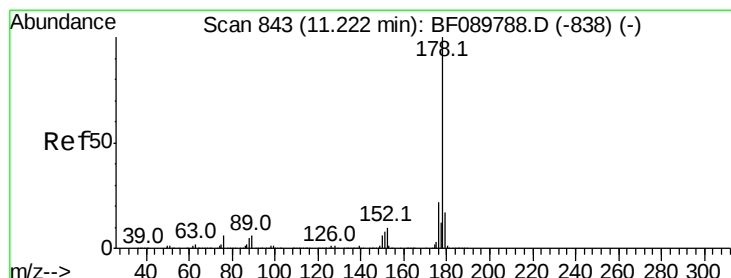
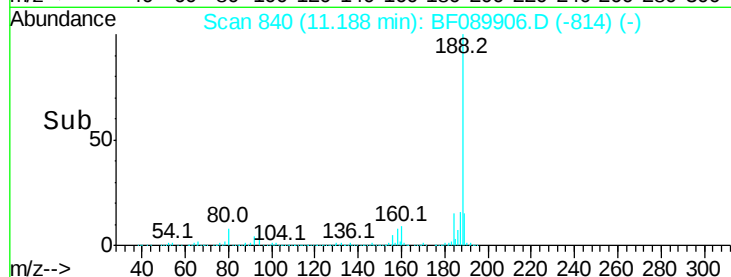
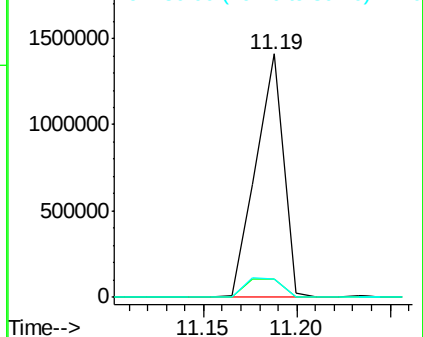
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 16.53 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

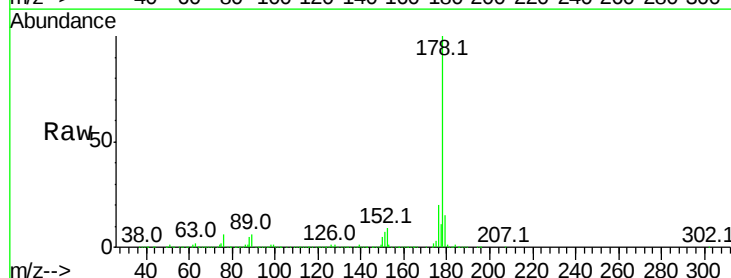
Tgt Ion:178 Resp: 1207384

Ion Ratio Lower Upper

178 100

176 19.8 16.4 24.6

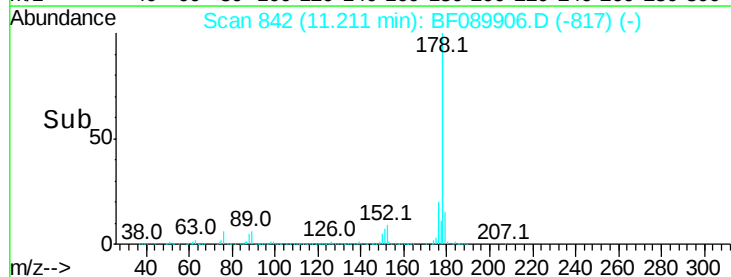
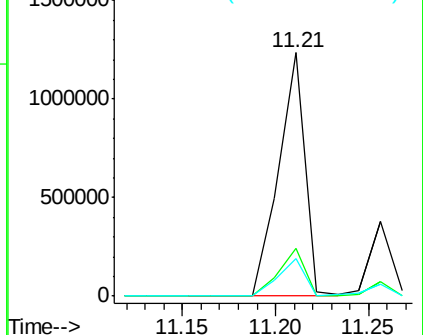
179 15.5 12.5 18.7

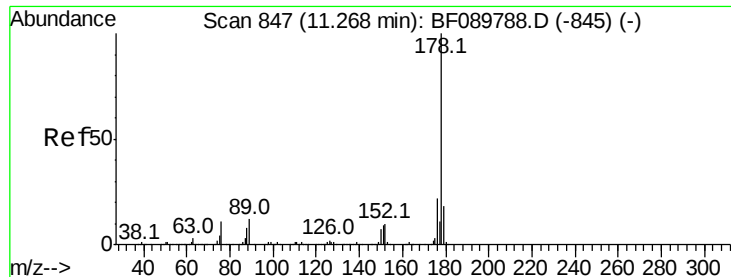


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





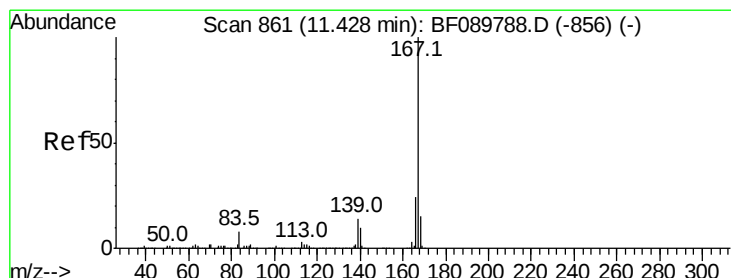
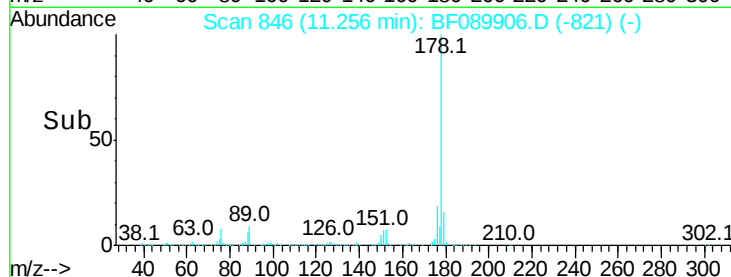
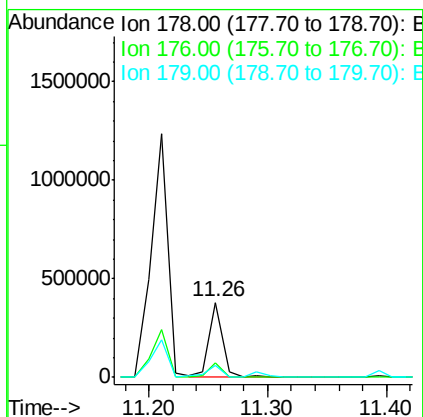
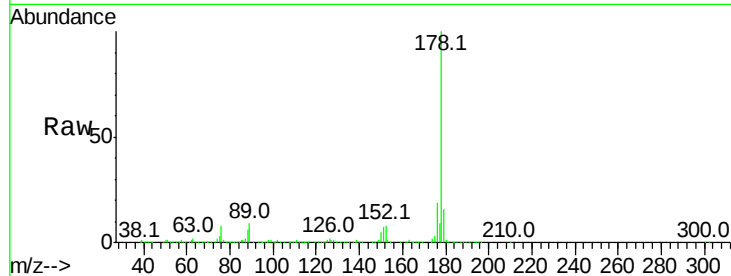
#71
 Anthracene
 Concen: 4.25 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	16.4	24.6
179	15.6	13.1	19.7

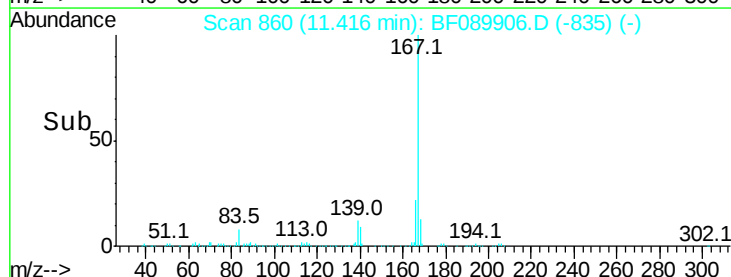
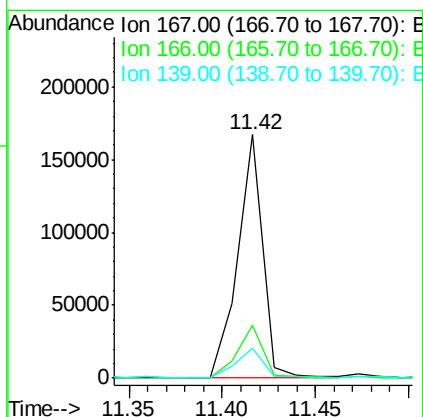
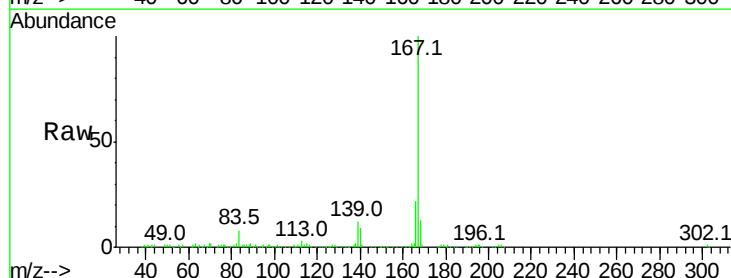
Manual Integrations
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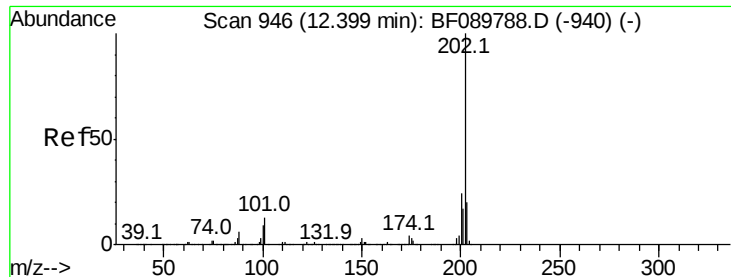
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#72
 Carbazole
 Concen: 2.36 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.9	26.9
139	12.0	12.4	18.6





#74

Fluoranthene

Concen: 24.53 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

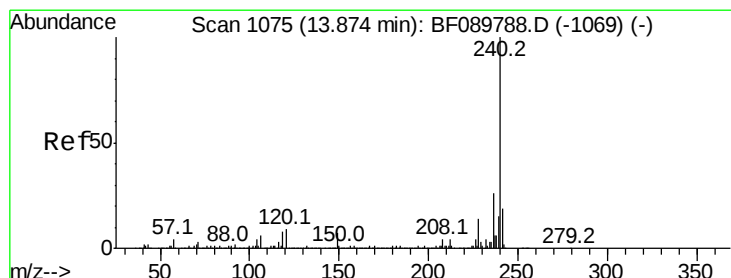
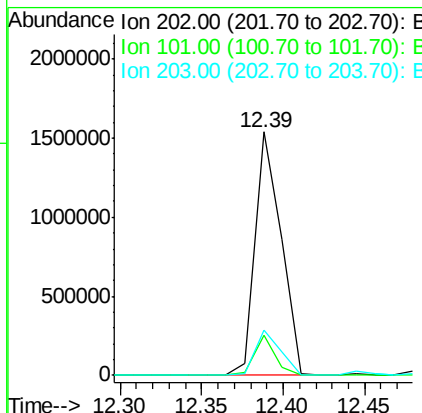
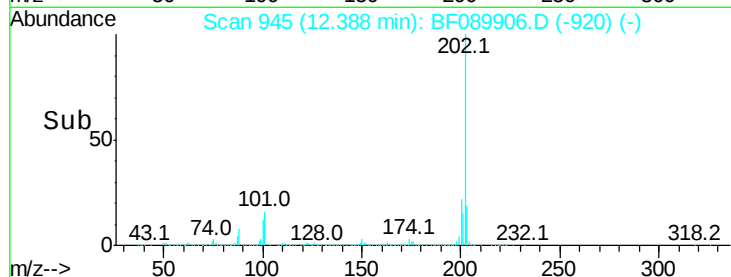
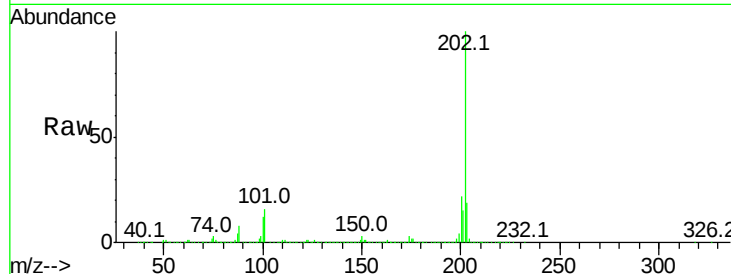
ClientSampleId :

WC2-E-5-02

Tot Ion:	202	Resp:	1703568
Ion	Ratio	Lower	Upper
202	100		
101	16.3	0.0	31.2
203	18.6	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

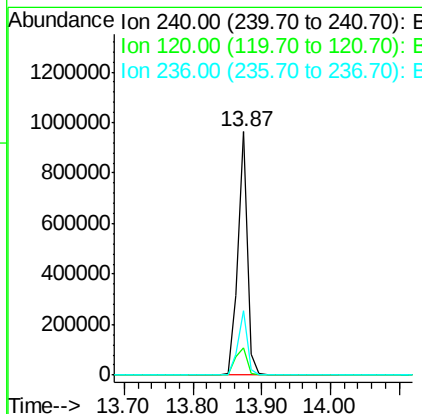
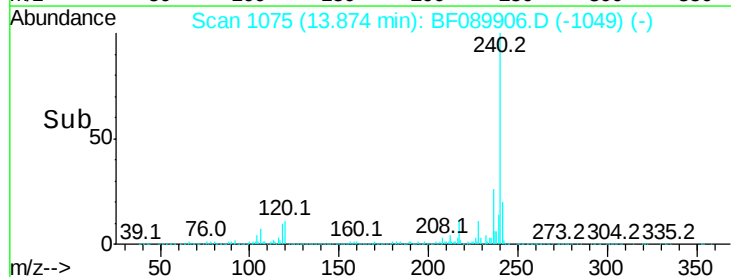
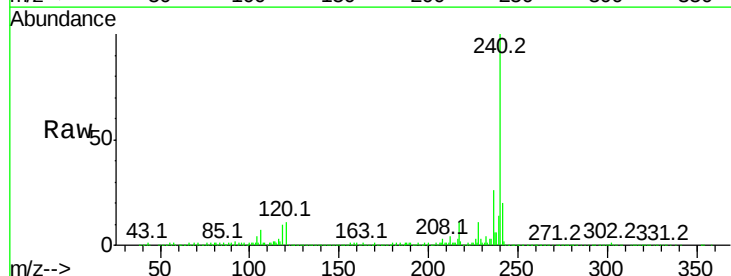
RT: 13.87 min Scan# 1075

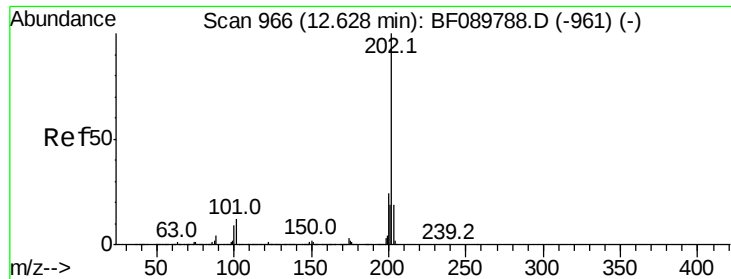
Delta R.T. -0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Tgt Ion:	240	Resp:	953043
Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.3	12.5
236	26.2	21.3	31.9





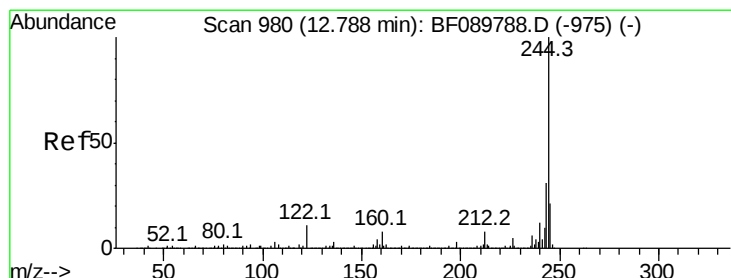
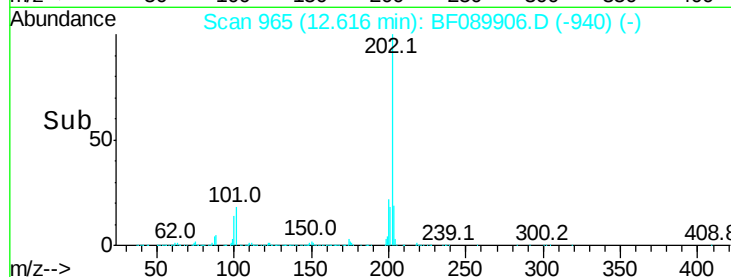
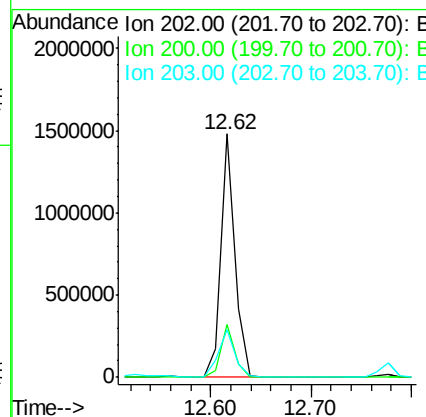
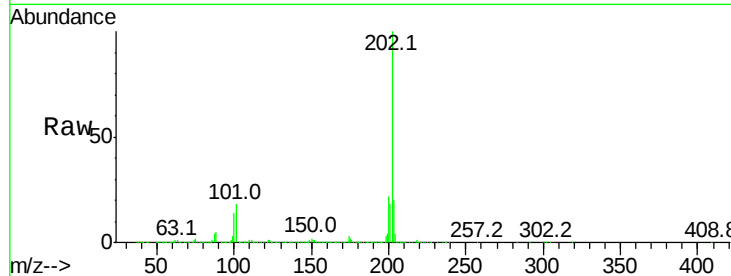
#77
Pvrene
Concen: 18.40 ng
RT: 12.62 min Scan# 965
Delta R.T. -0.01 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.8	26.6
203	19.7	14.2	21.4

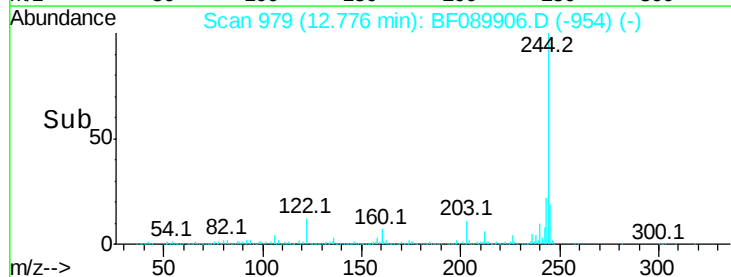
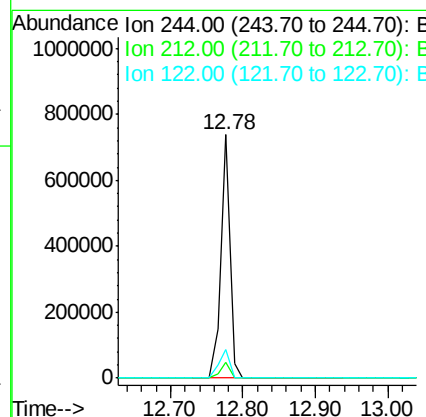
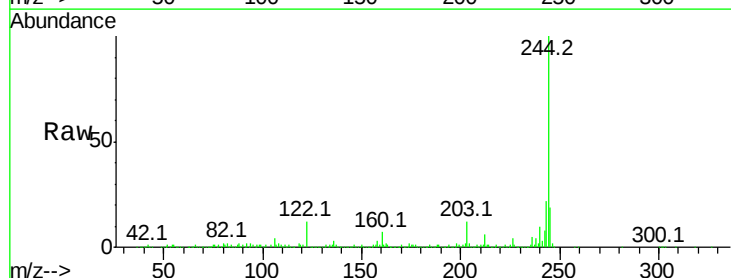
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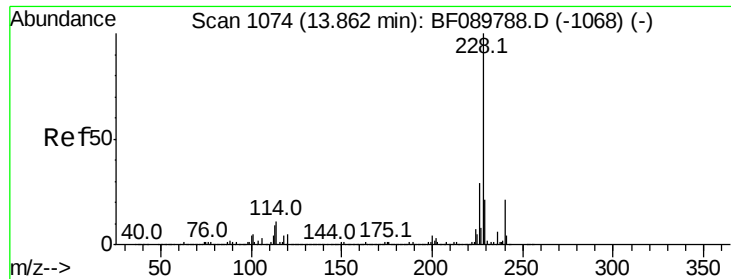
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#78
Terphenyl-d14
Concen: 15.38 ng
RT: 12.78 min Scan# 979
Delta R.T. -0.01 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.3	9.5
122	11.8	12.0	18.0#





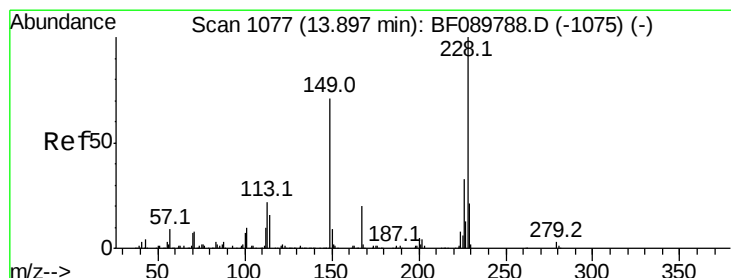
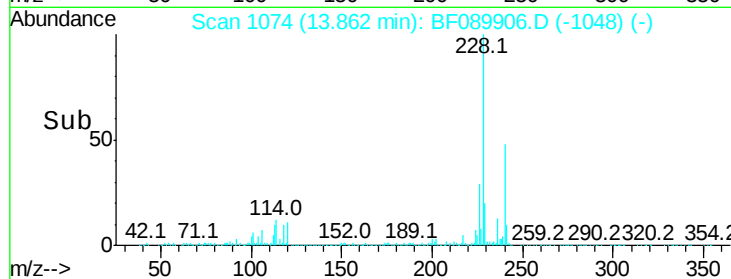
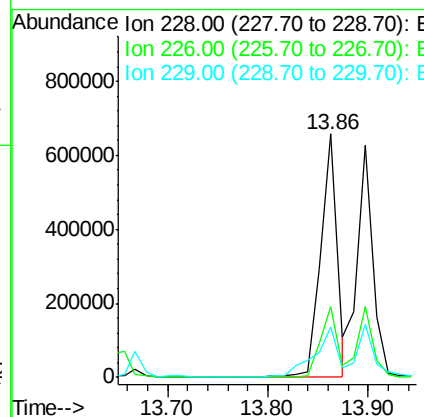
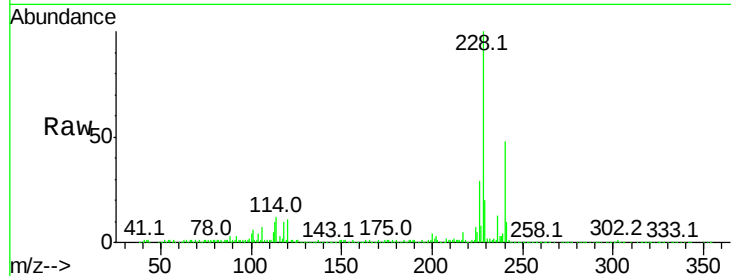
#80
Benzo(a)anthracene
Concen: 13.60 ng
RT: 13.86 min Scan# 1074
Delta R.T. -0.00 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tot Ion:	228	Resp:	742204
Ion Ratio	Lower	Upper	
228	100		
226	29.2	23.2	34.8
229	20.5	16.2	24.4

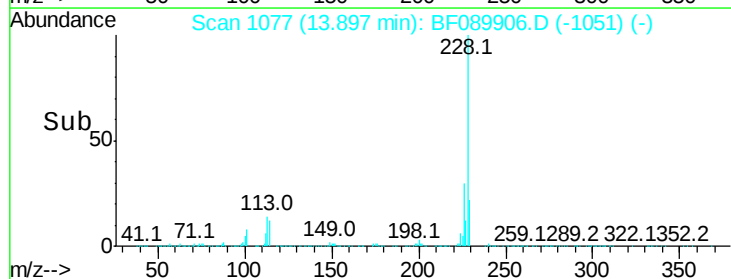
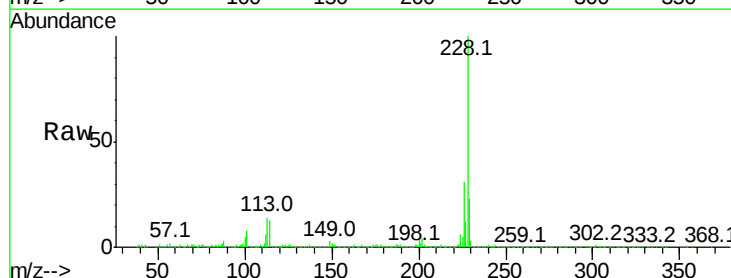
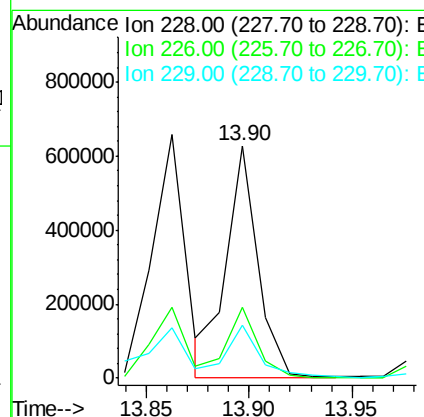
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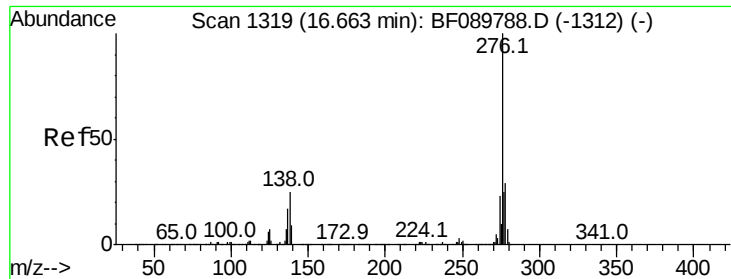
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#82
Chrysene
Concen: 14.54 ng m
RT: 13.90 min Scan# 1077
Delta R.T. 0.00 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion:	228	Resp:	680505
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.4	38.0
229	22.8	16.5	24.7





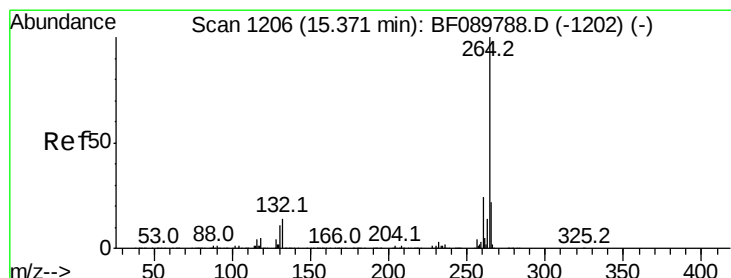
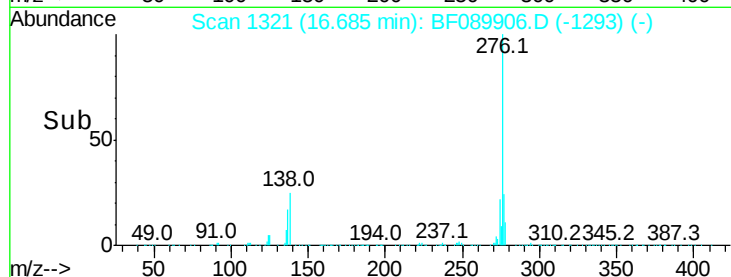
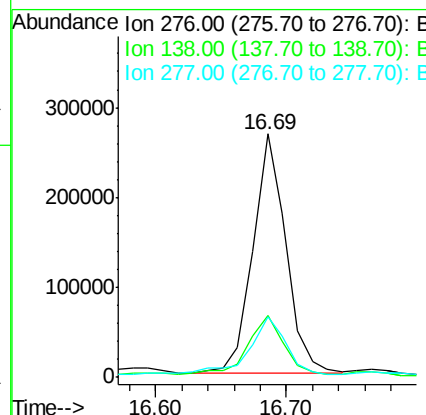
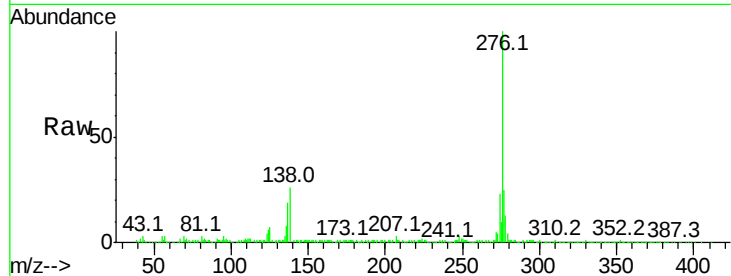
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.84 ng
RT: 16.69 min Scan# 1321
Delta R.T. 0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tot Ion	Ratio	Resp	Lower	Upper
276	100	468001		
138	26.3		24.6	36.8
277	27.8		20.4	30.6

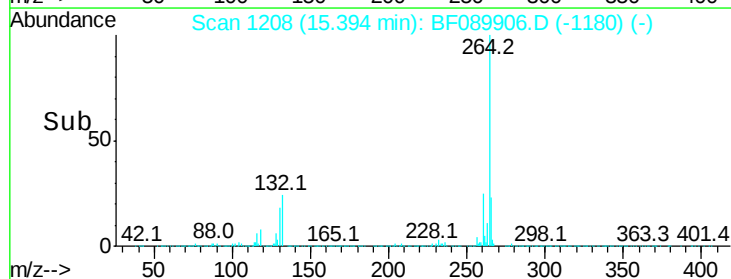
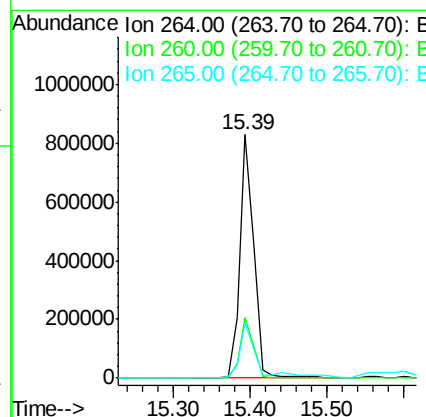
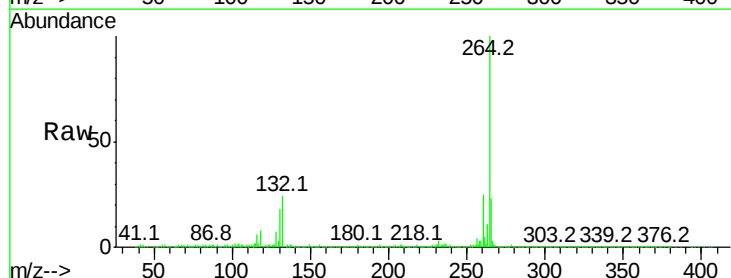
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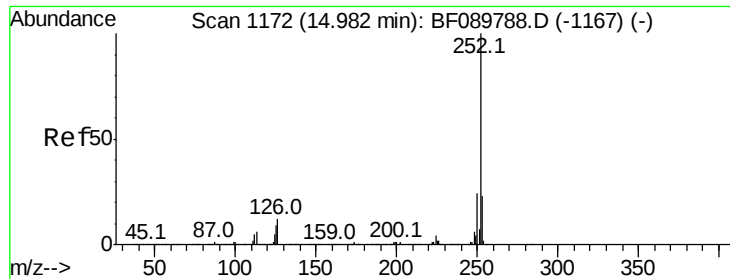
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1208
Delta R.T. 0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	1066513		
260	24.6		20.2	30.2
265	23.0		17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 17.87 ng m

RT: 15.01 min Scan# 1174

Delta R.T. 0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

Tot Ion:252 Resp: 1048586

Ion Ratio Lower Upper

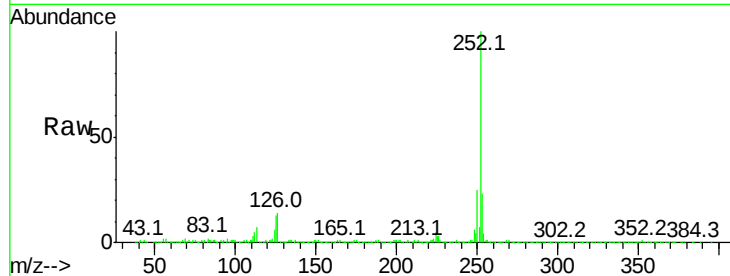
252 100

253 22.9 17.8 26.8

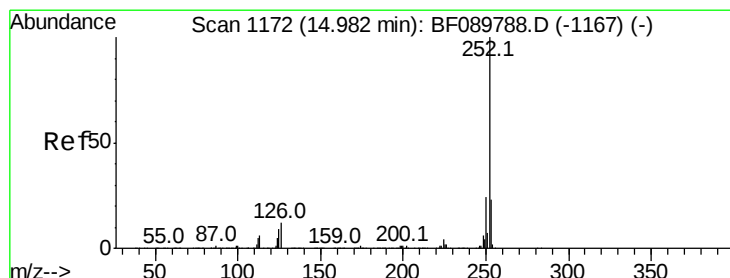
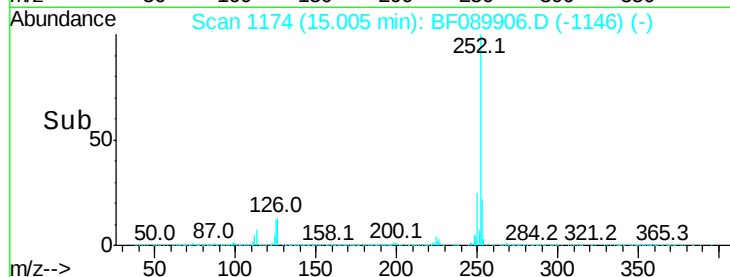
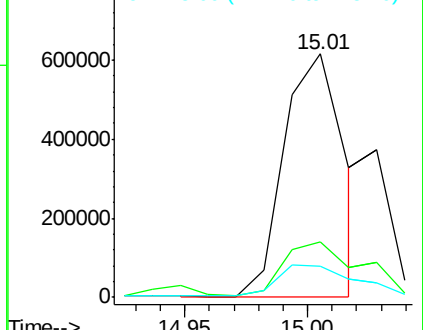
125 12.9 11.4 17.2

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 5.68 ng m

RT: 15.03 min Scan# 1176

Delta R.T. 0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

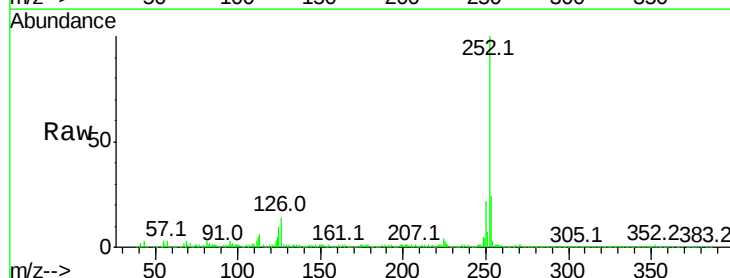
Tgt Ion:252 Resp: 302438

Ion Ratio Lower Upper

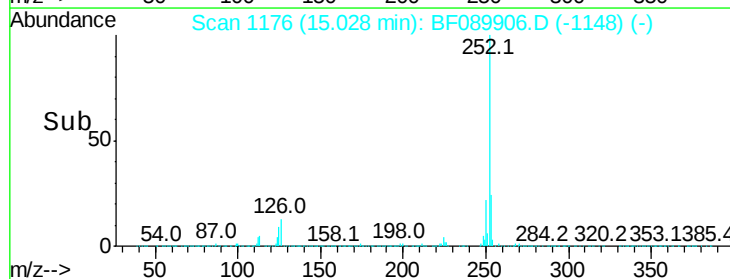
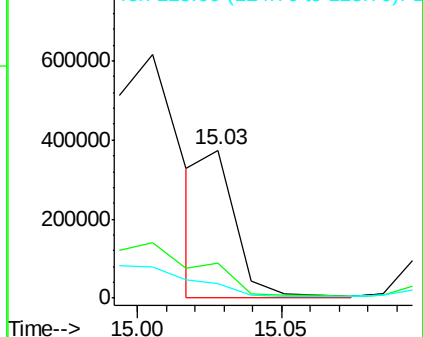
252 100

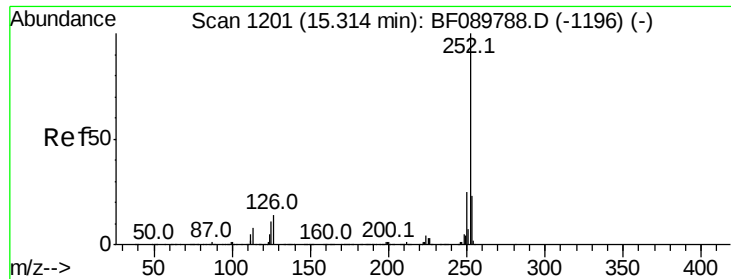
253 24.1 18.4 27.6

125 9.7 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





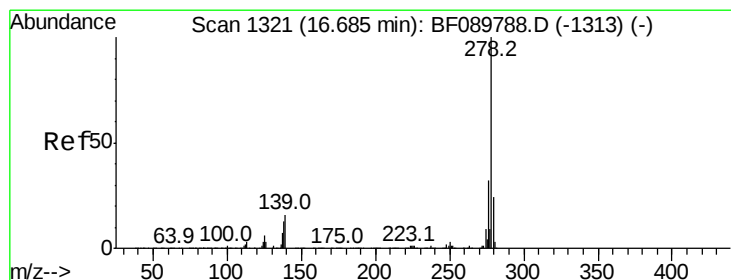
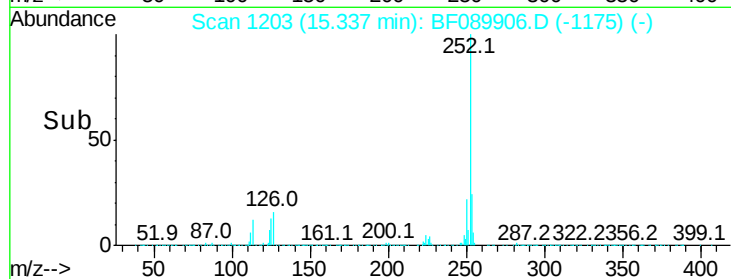
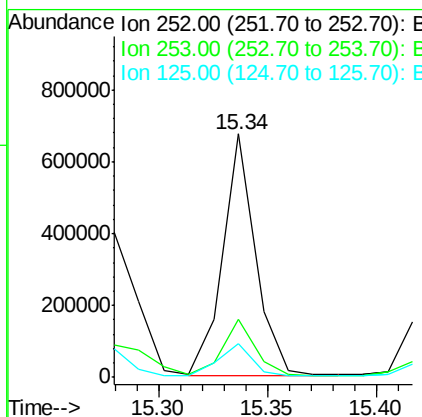
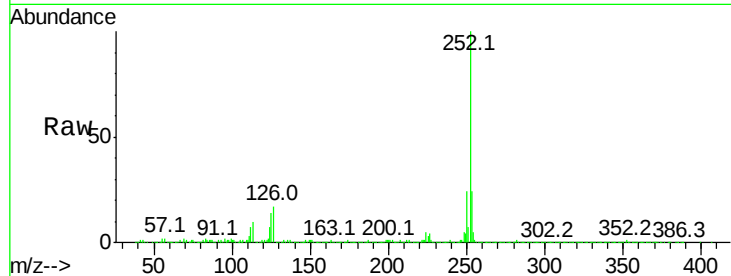
#89
Benzo(a)pyrene
Concen: 12.79 ng
RT: 15.34 min Scan# 1203
Delta R.T. 0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.8
125	13.7	11.7	17.5

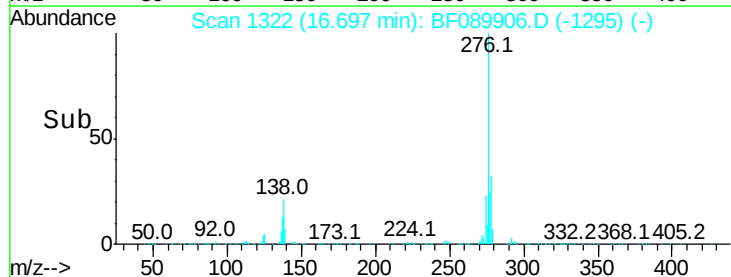
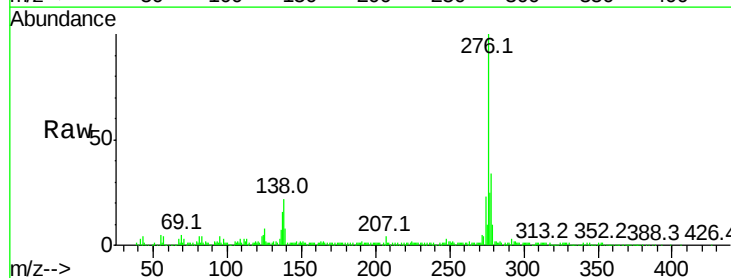
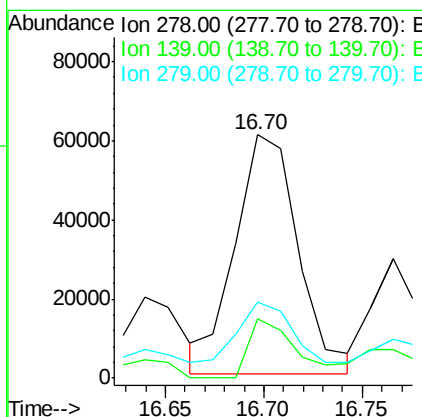
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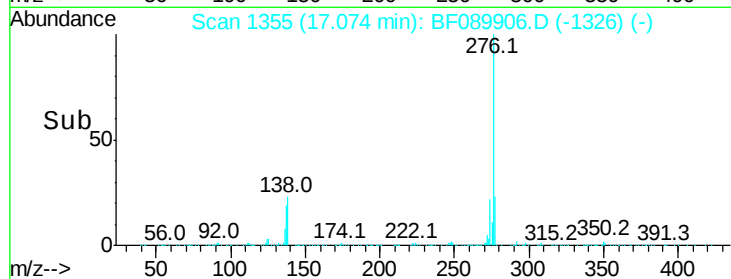
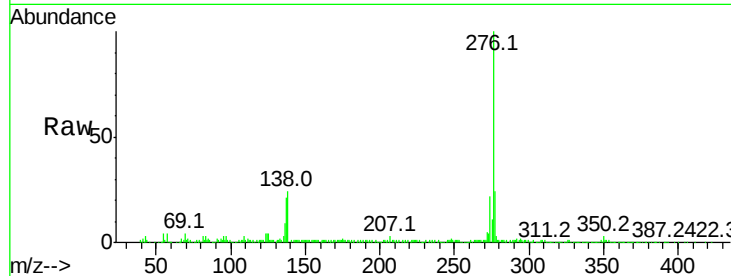
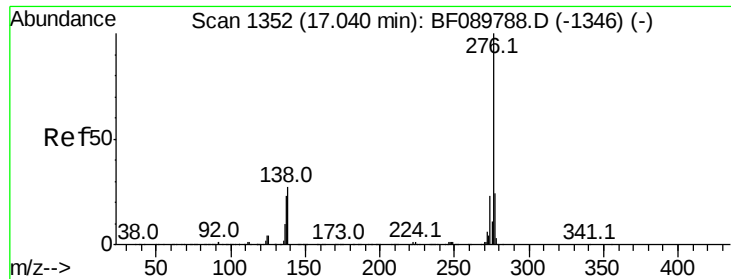
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#90
Dibenzo(a,h)anthracene
Concen: 2.24 ng m
RT: 16.70 min Scan# 1322
Delta R.T. 0.01 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.3	14.9	22.3#
279	31.0	19.2	28.8#





#91

Benzo(a,h,i)perylene

Concen: 6.94 ng

RT: 17.07 min Scan# 1355

Delta R.T. 0.03 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

Tot Ion:	276	Resp:	440396
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.2	28.8
138	23.5	22.1	33.1

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