

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089905.D
 Acq On : 25 Aug 2016 6:25
 Operator : UM/SJ
 Sample : H4566-03 5X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

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

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Quant Time: Aug 25 17:33:04 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	6.66	152	491498	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	1904833	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	849412	20.00	ng	-0.01
63) Phenanthrene-d10	11.19	188	1579958	20.00	ng	0.00
75) Chrysene-d12	13.86	240	1010510	20.00	ng	-0.01
86) Perylene-d12	15.36	264	1136790	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	671115	23.42	ng	-0.02
7) Phenol-d6	6.30	99	806879	22.93	ng	-0.02
23) Nitrobenzene-d5	7.23	82	439084	14.32	ng	-0.02
41) 2,4,6-Tribromophenol	10.49	330	186088	23.05	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	886506	18.34	ng	-0.01
78) Terphenyl-d14	12.78	244	644726	14.43	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.98	128	185388	2.08	ng	97
49) Dimethylphthalate	9.44	163	314466	5.26	ng	# 96
51) Acenaphthene	9.74	154	268040	5.19	ng	98
54) Dibenzofuran	9.91	168	204147	3.15	ng	92
57) Fluorene	10.25	166	246851	4.77	ng	99
70) Phenanthrene	11.21	178	2881166	36.11	ng	97
71) Anthracene	11.26	178	835108	10.30	ng	97
72) Carbazole	11.42	167	425795	5.85	ng	# 95
74) Fluoranthene	12.40	202	3725944	49.09	ng	97
77) Pyrene	12.62	202	3008813m	36.56	ng	
79) Butylbenzylphthalate	13.27	149	138799	3.73	ng	# 92
80) Benzo(a)anthracene	13.85	228	1474126	25.47	ng	99
82) Chrysene	13.89	228	1320274m	26.61	ng	
85) Indeno(1,2,3-cd)pyrene	16.65	276	960081	15.17	ng	96
87) Benzo(b)fluoranthene	14.97	252	1801569m	28.81	ng	
88) Benzo(k)fluoranthene	14.98	252	787310m	13.88	ng	
89) Benzo(a)pyrene	15.30	252	1385098	23.40	ng	97
90) Dibenzo(a,h)anthracene	16.66	278	269419m	4.19	ng	
91) Benzo(a,h,i)perylene	17.04	276	895577	13.24	ng	98

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

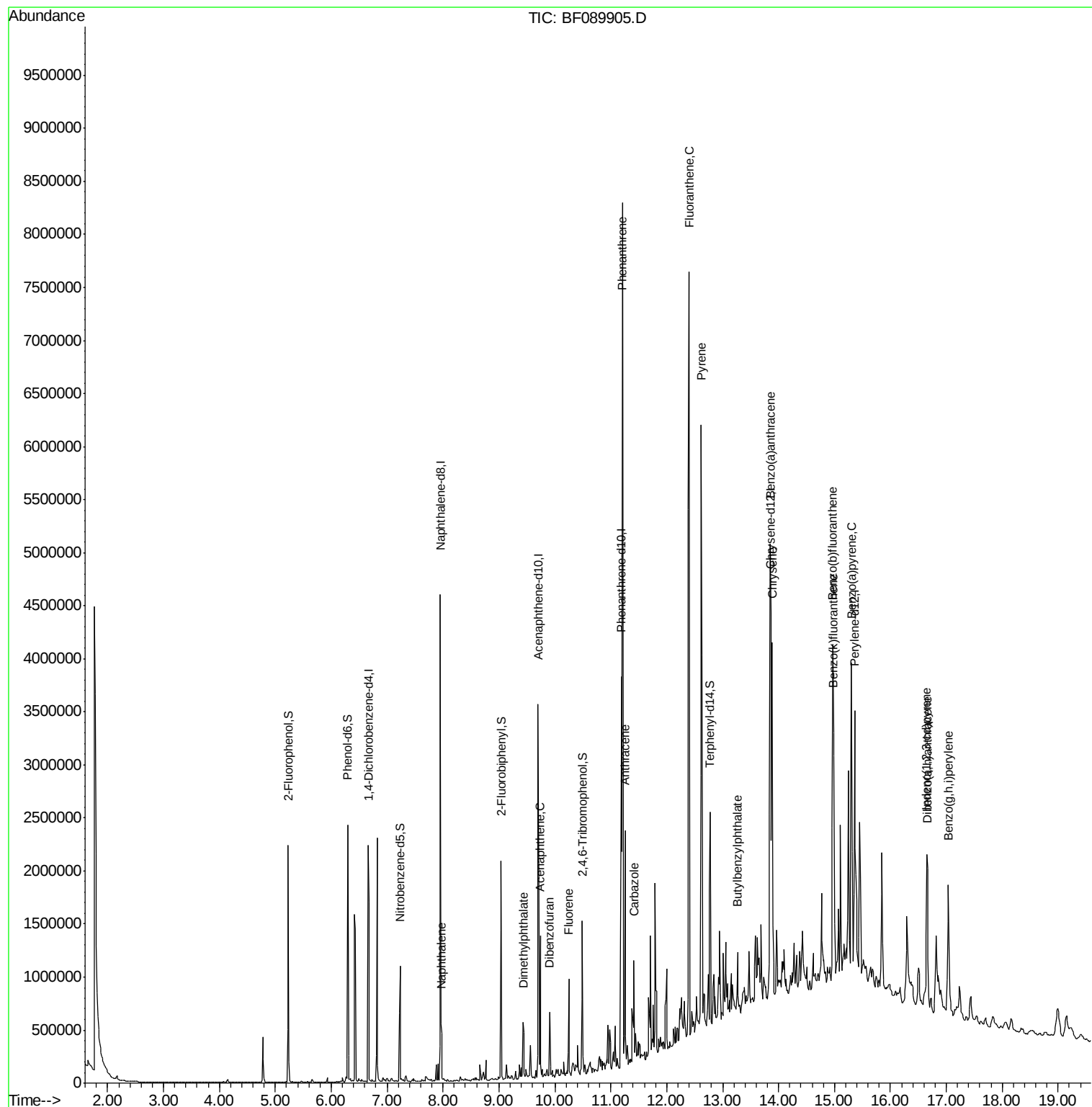
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
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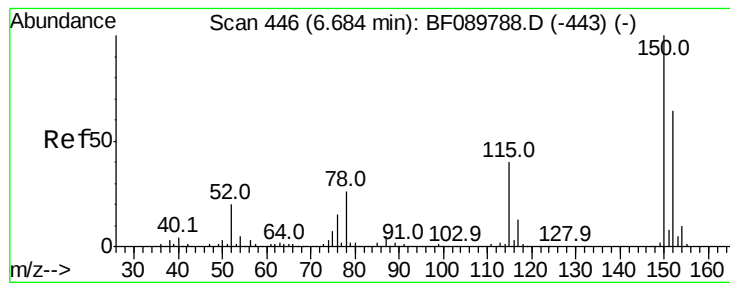
Instrument :
BNA_F
ClientSampleId :
WC2-N-5-02

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Quant Time: Aug 25 17:33:04 2016
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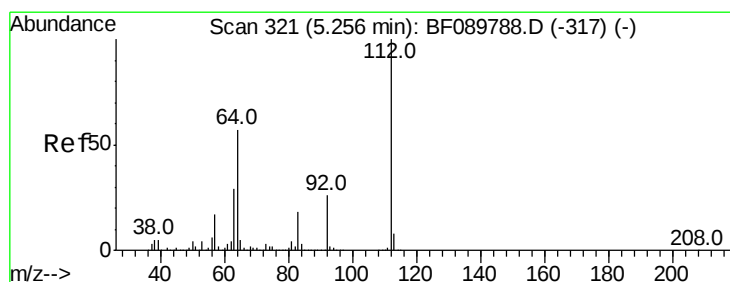
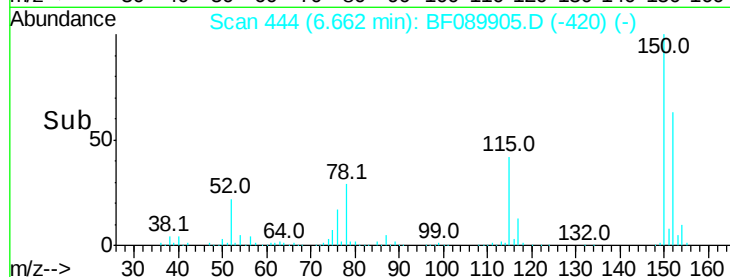
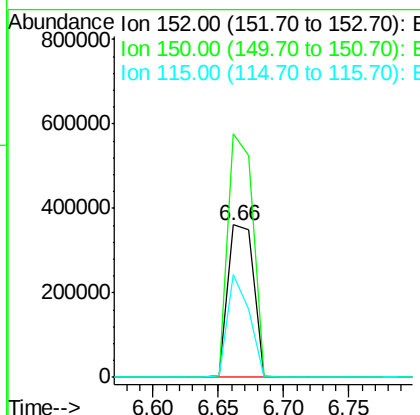
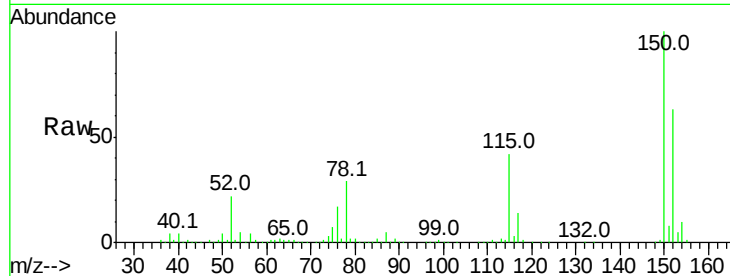
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.66 min Scan# 444
 Delta R.T. -0.02 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Resp	Lower	Upper
152	100	491498		
150	159.7	125.3	187.9	
115	67.5	40.9	61.3	

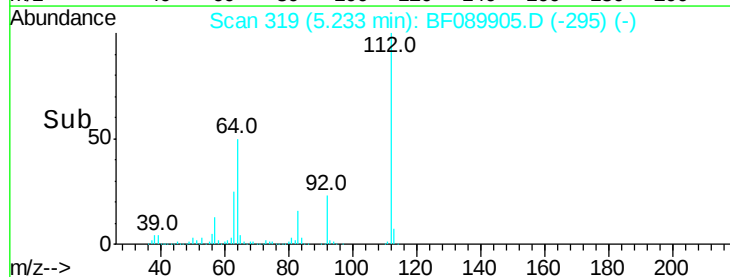
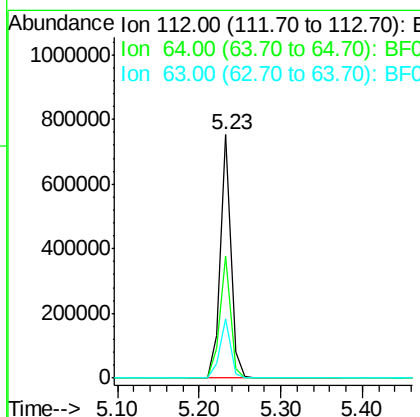
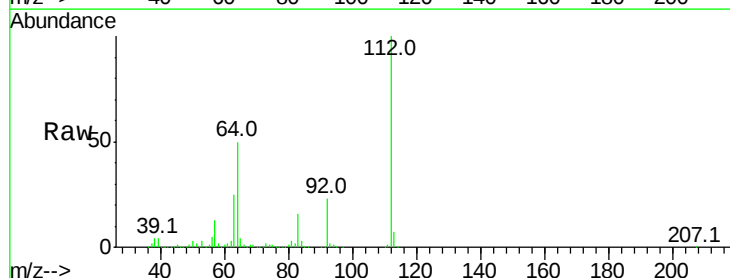
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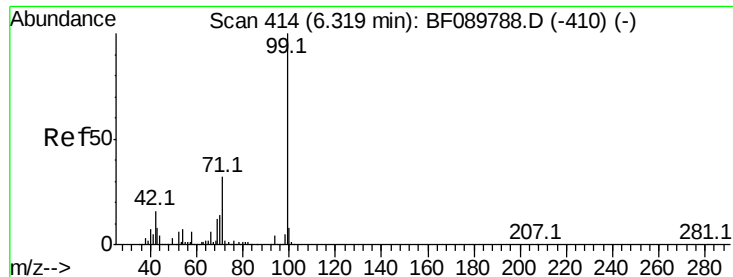
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#5
 2-Fluorophenol
 Concen: 23.42 ng
 RT: 5.23 min Scan# 319
 Delta R.T. -0.02 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	671115		
64	49.9	45.0	67.4	
63	24.6	23.1	34.7	





#7

Phenol-d6

Concen: 22.93 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

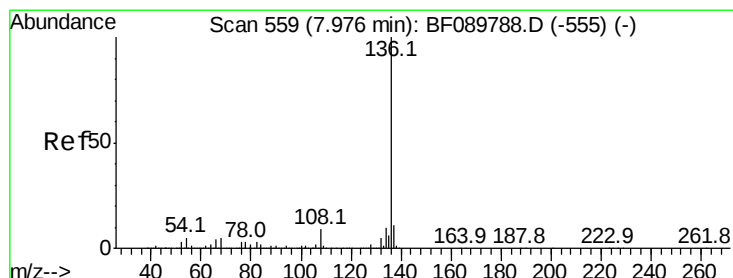
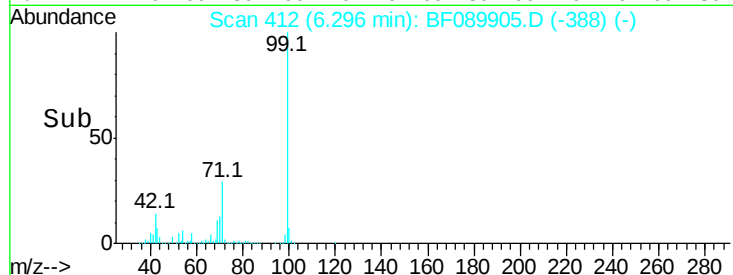
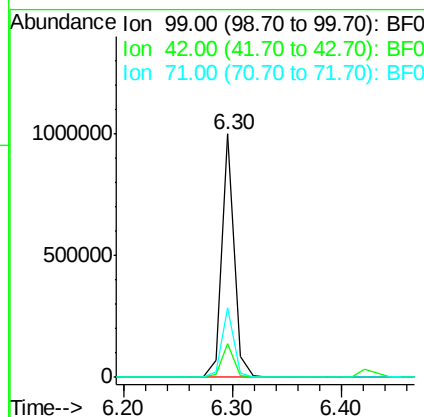
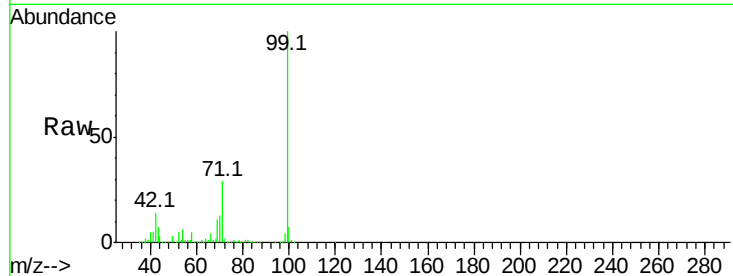
ClientSampleId :

WC2-N-5-02

Tot Ion:	99	Resp:	806879
Ion Ratio	Lower	Upper	
99	100		
42	13.7	12.2	18.4
71	28.6	23.8	35.8

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#21

Naphthalene-d8

Concen: 20.00 ng

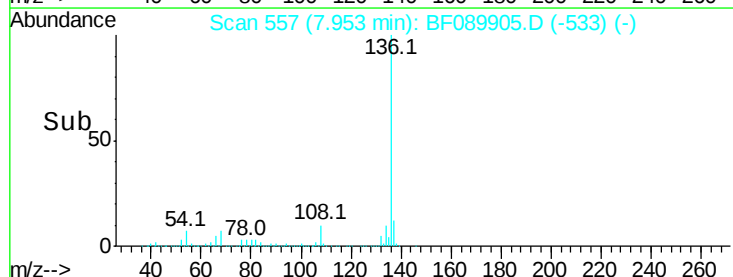
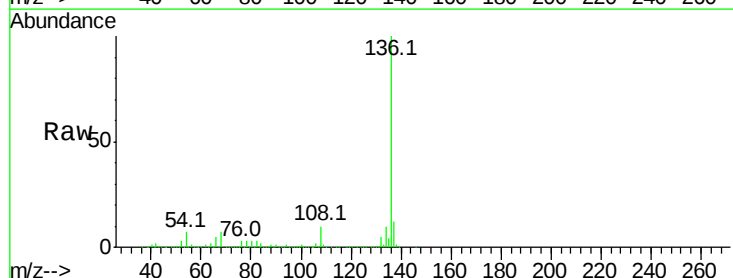
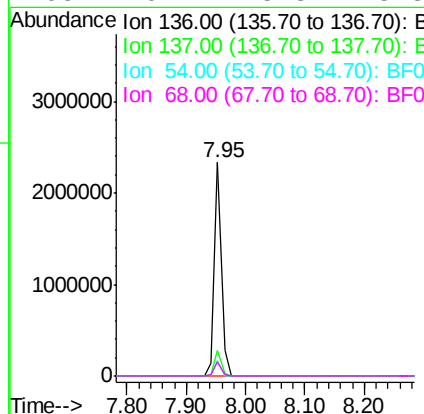
RT: 7.95 min Scan# 557

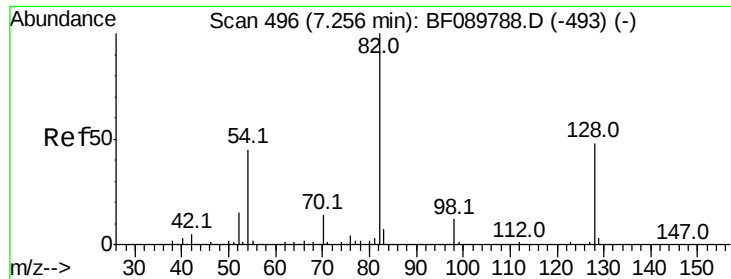
Delta R.T. -0.02 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Tgt Ion:	136	Resp:	1904833
Ion Ratio	Lower	Upper	
136	100		
137	11.8	9.2	13.8
54	7.0	7.2	10.8#
68	6.7	5.8	8.8





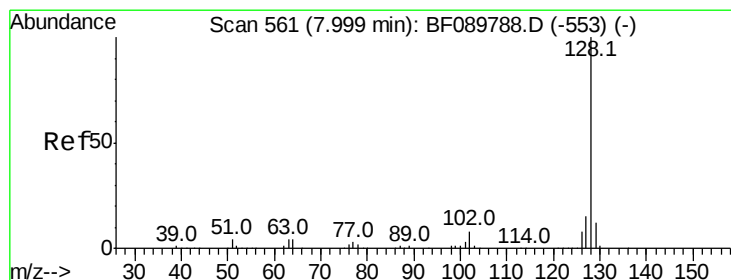
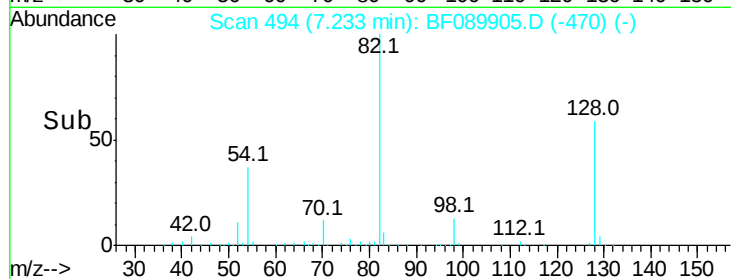
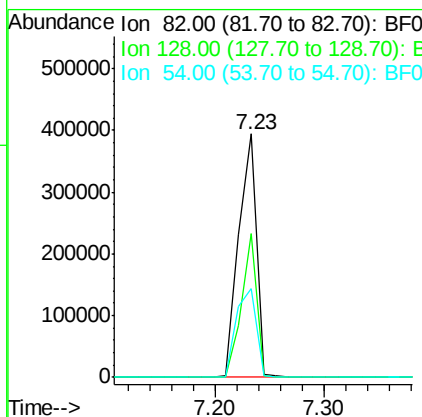
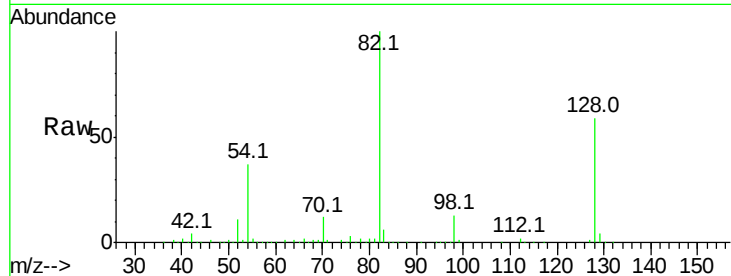
#23
 Nitrobenzene-d5
 Concen: 14.32 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.02 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	59.3	34.4	51.6#
54	36.7	40.3	60.5#

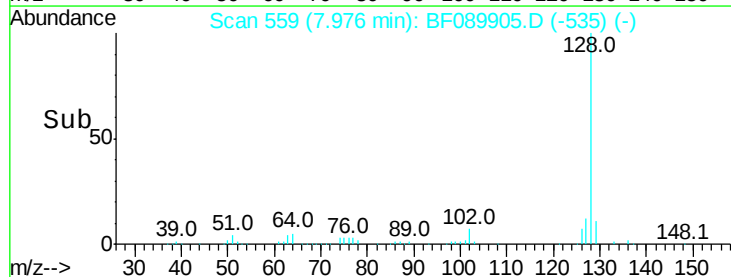
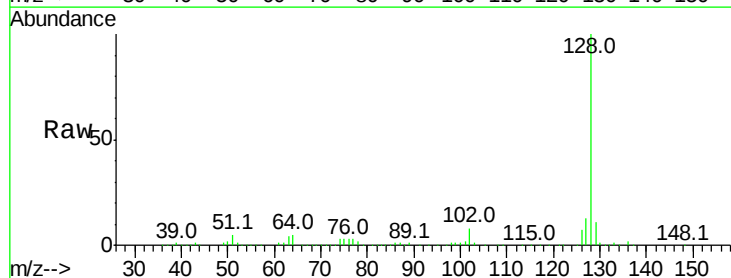
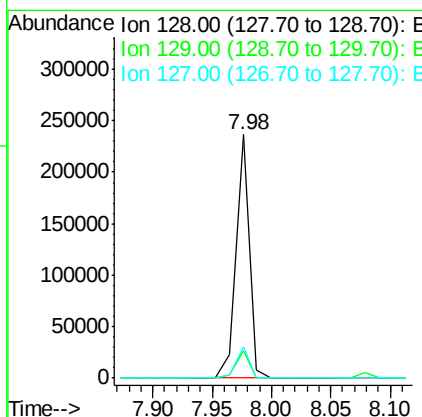
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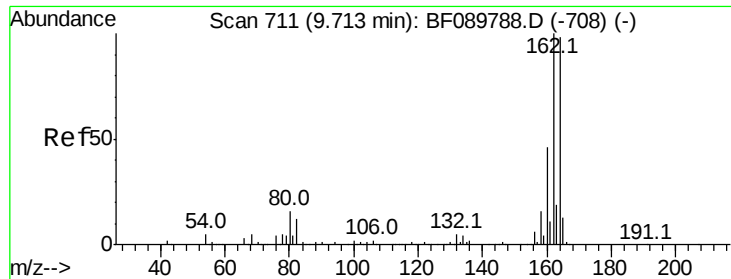
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#31
 Naphthalene
 Concen: 2.08 ng
 RT: 7.98 min Scan# 559
 Delta R.T. -0.02 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.5	14.3
127	12.6	11.3	16.9





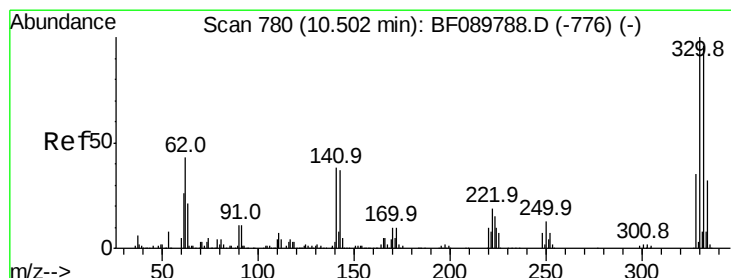
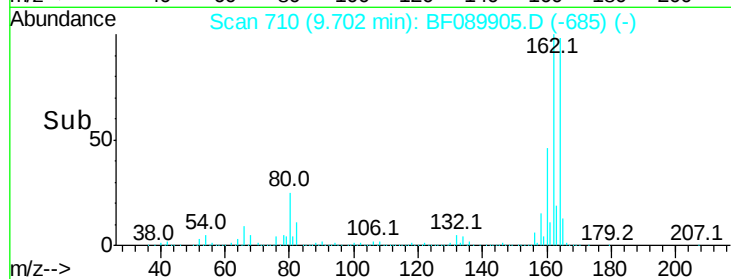
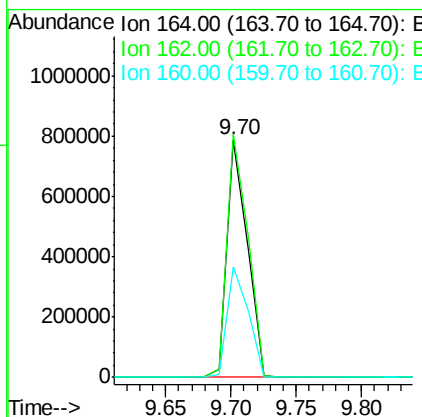
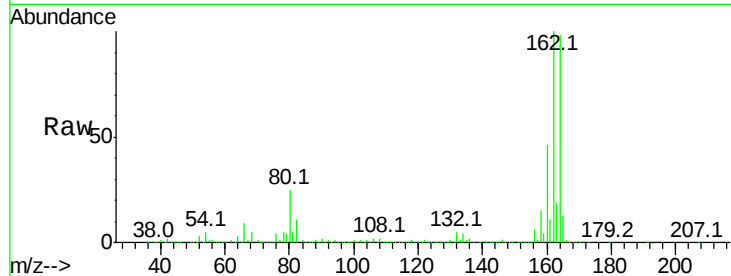
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Resp	Lower	Upper
164	100	849412		
162	102.5	81.4	122.2	
160	46.7	37.8	56.6	

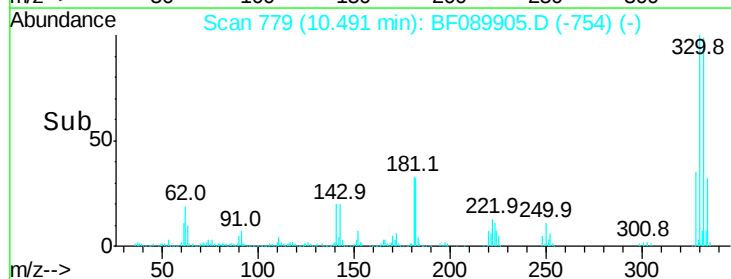
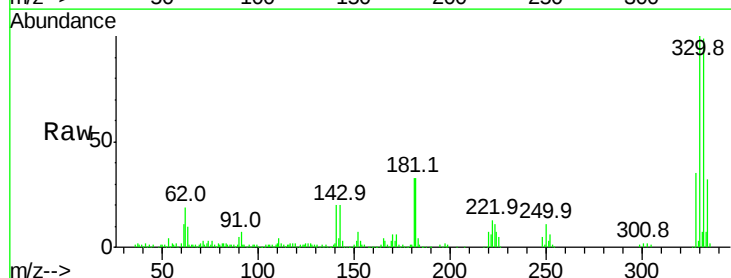
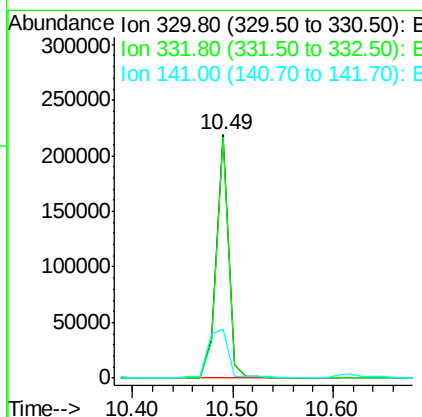
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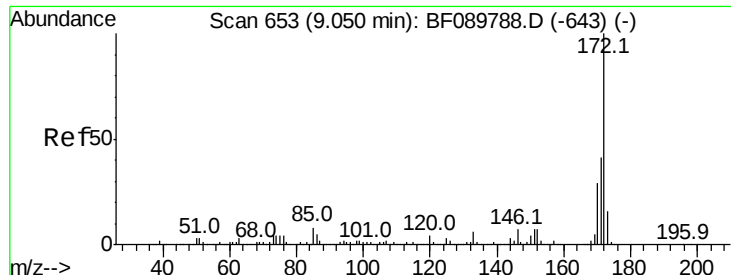
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#41
2,4,6-Tribromophenol
Concen: 23.05 ng
RT: 10.49 min Scan# 779
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	186088		
332	98.2	76.7	115.1	
141	32.2	30.2	45.2	





#44

2-Fluorobiphenyl

Concen: 18.34 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

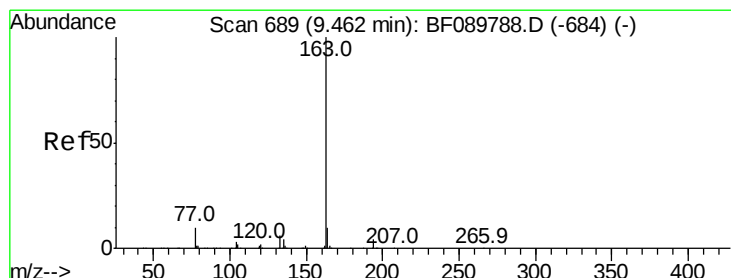
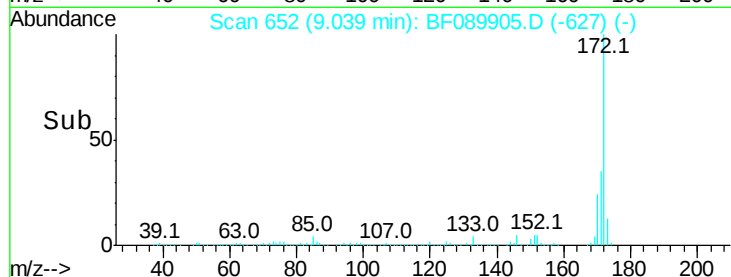
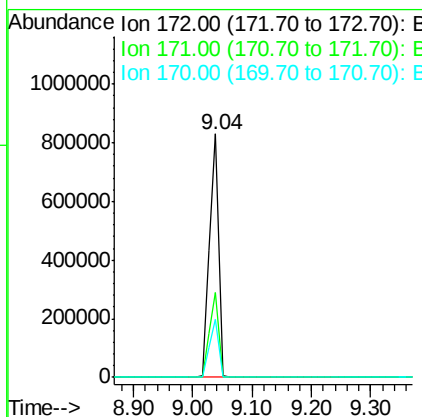
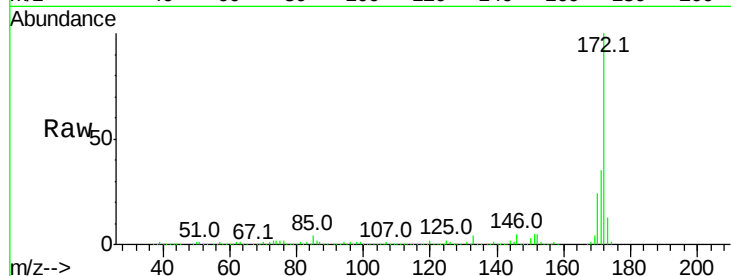
ClientSampleId :

WC2-N-5-02

Tot Ion:	172	Resp:	886506
Ion Ratio	Lower	Upper	
172	100		
171	35.1	30.5	45.7
170	23.7	20.6	31.0

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#49

Dimethylphthalate

Concen: 5.26 ng

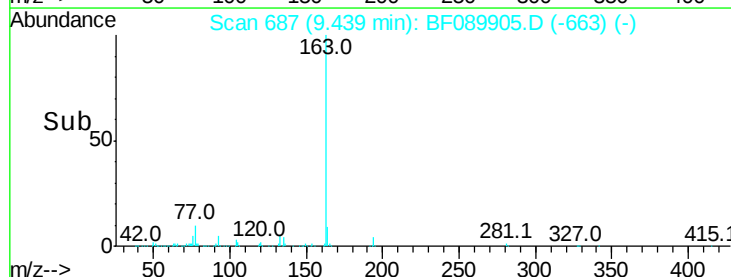
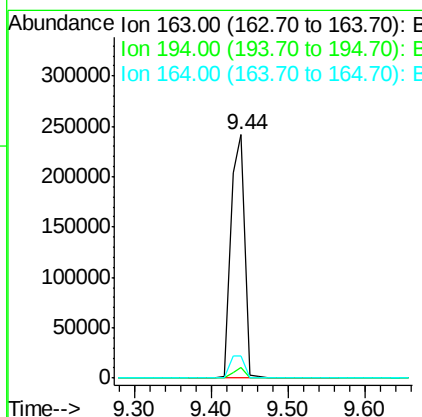
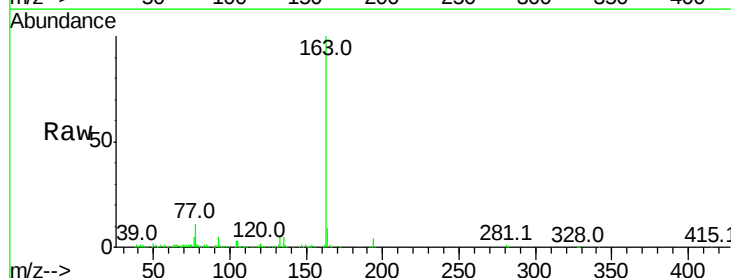
RT: 9.44 min Scan# 687

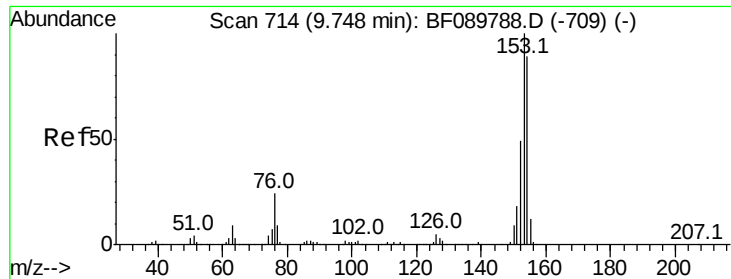
Delta R.T. -0.02 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Tgt Ion:	163	Resp:	314466
Ion Ratio	Lower	Upper	
163	100		
194	4.2	2.6	3.8#
164	9.0	8.6	12.8





#51

Acenaphthene

Concen: 5.19 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

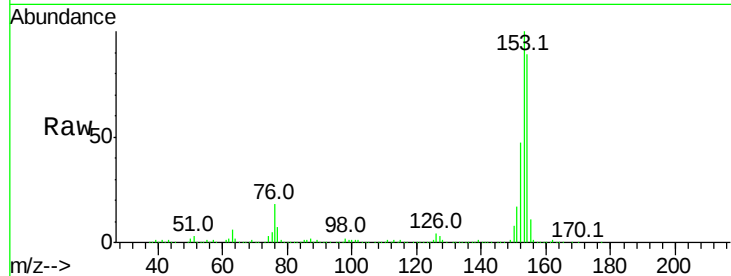
ClientSampleId :

WC2-N-5-02

Tot Ion:	154	Resp:	268040
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.5	135.7
152	52.8	44.6	67.0

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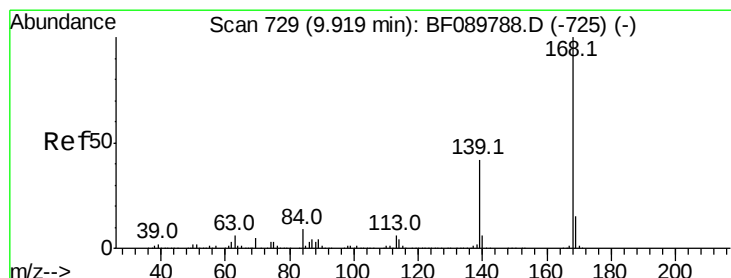
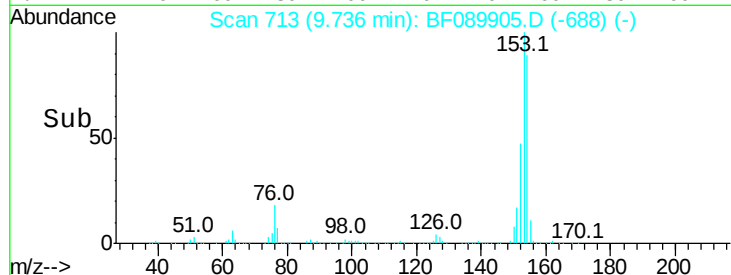
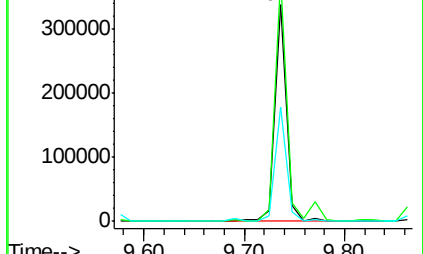
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.15 ng

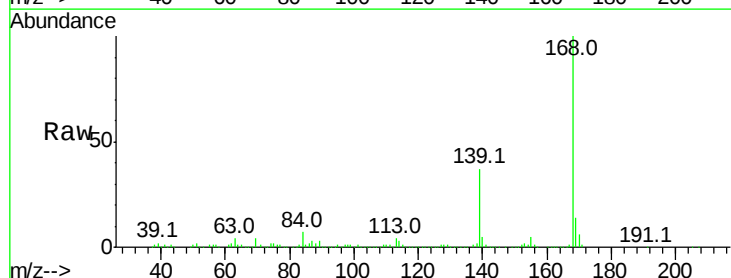
RT: 9.91 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

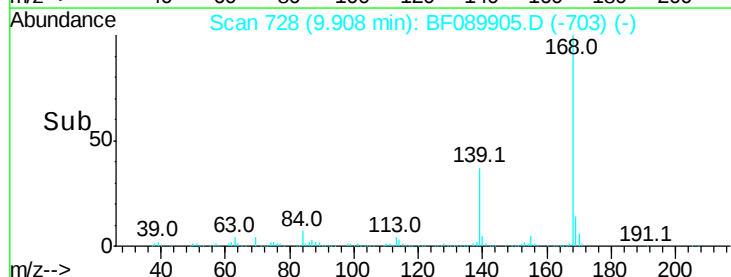
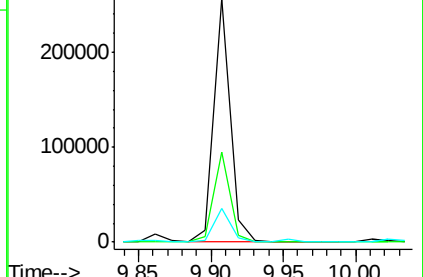
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Ion Ratio	Lower	Upper	
168	100		
139	36.9	34.6	52.0
169	14.1	11.5	17.3

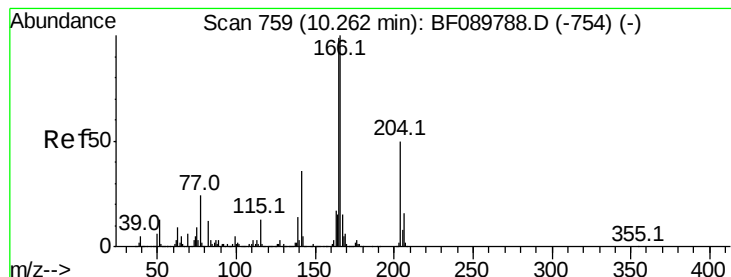


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 4.77 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

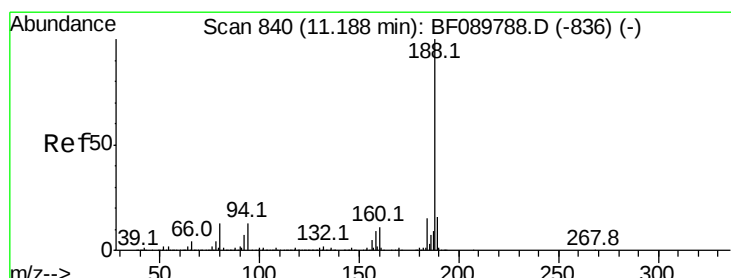
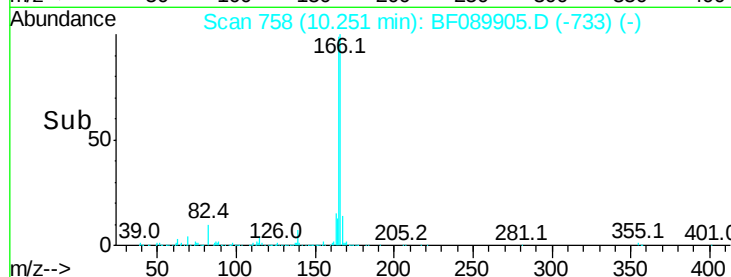
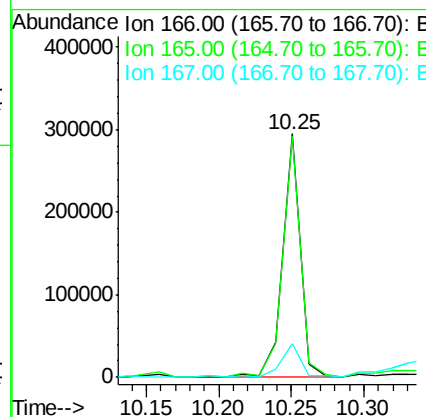
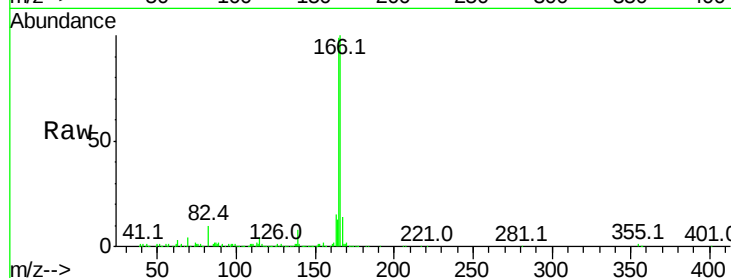
ClientSampleId :

WC2-N-5-02

Tot Ion:	166	Resp:	246851
Ion Ratio	Lower	Upper	
166	100		
165	98.8	80.2	120.4
167	13.9	11.3	16.9

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#63

Phenanthrene-d10

Concen: 20.00 ng

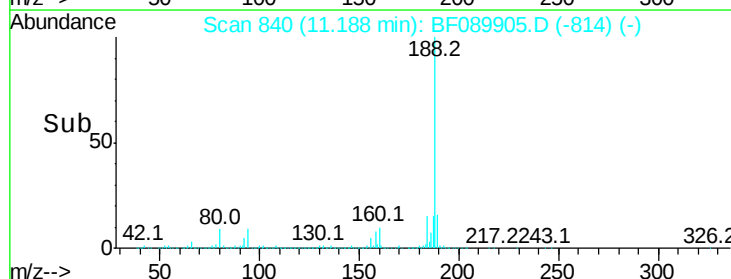
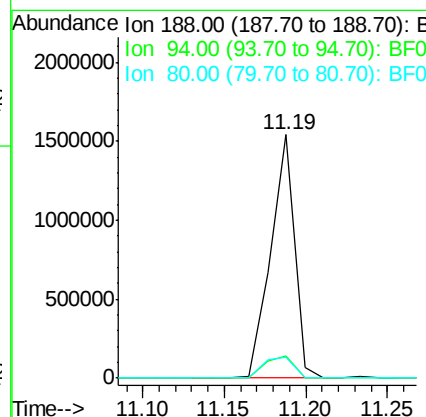
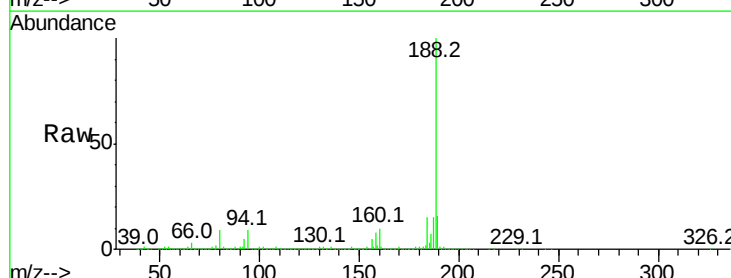
RT: 11.19 min Scan# 840

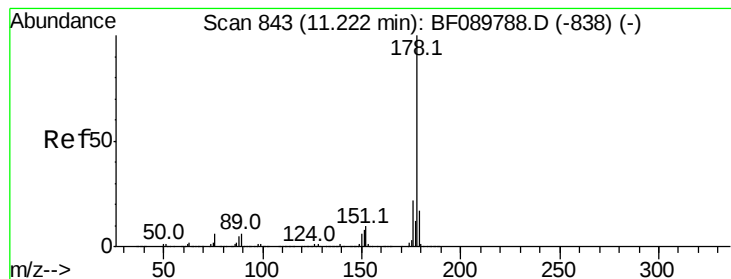
Delta R.T. 0.00 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Tgt Ion:	188	Resp:	1579958
Ion Ratio	Lower	Upper	
188	100		
94	8.9	10.2	15.2#
80	8.7	10.9	16.3#





#70

Phenanthrene

Concen: 36.11 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

ClientSampleId :

WC2-N-5-02

Tot Ion:178 Resp: 2881166

Ion Ratio Lower Upper

178 100

176 21.6 16.4 24.6

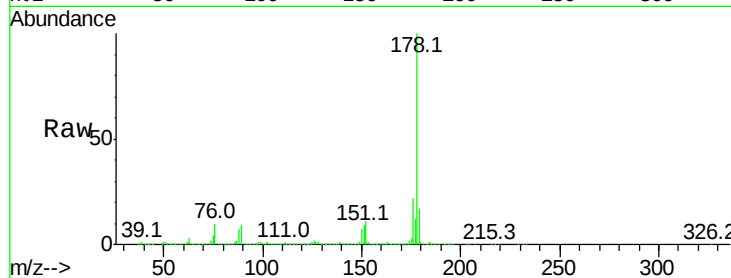
179 17.0 12.5 18.7

Manual Integrations

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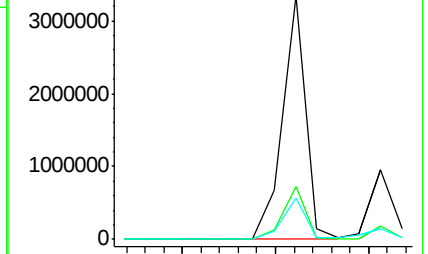
8/25/2016 6:50:50 PM



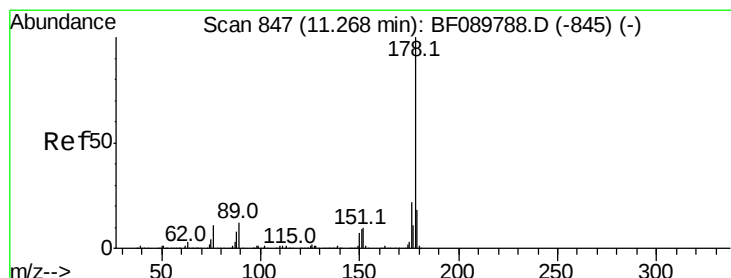
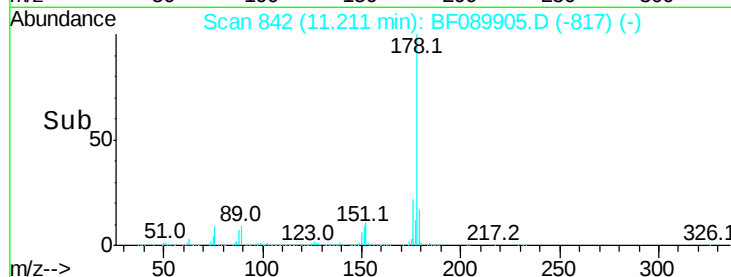
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 10.30 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

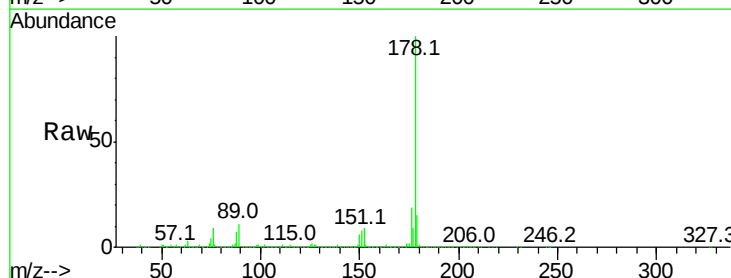
Tgt Ion:178 Resp: 835108

Ion Ratio Lower Upper

178 100

176 18.8 16.4 24.6

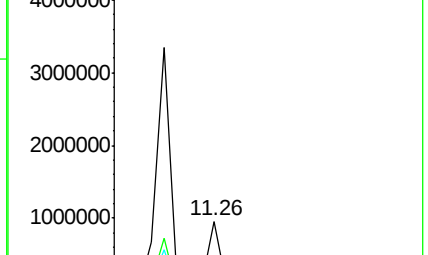
179 15.5 13.1 19.7



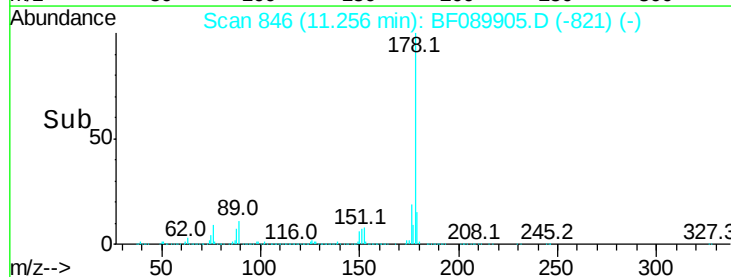
Abundance Ion 178.00 (177.70 to 178.70): E

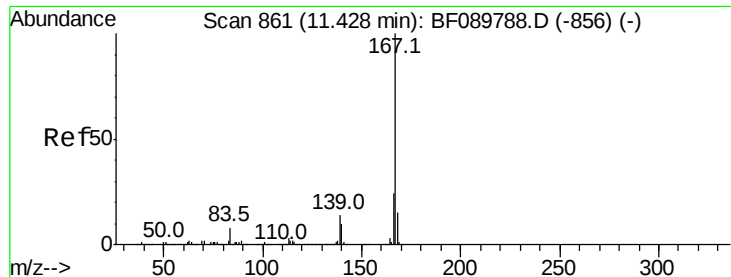
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





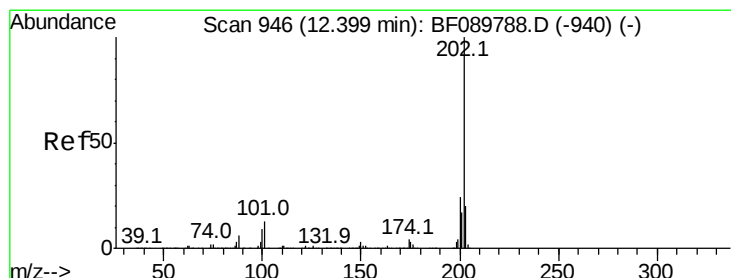
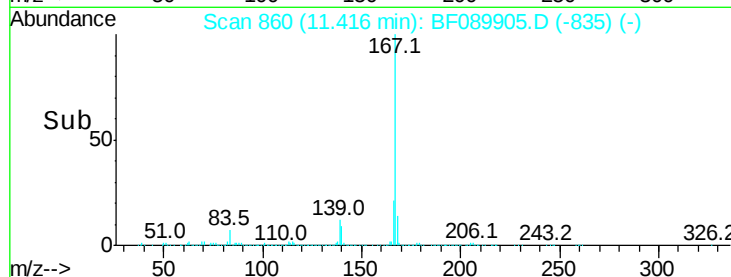
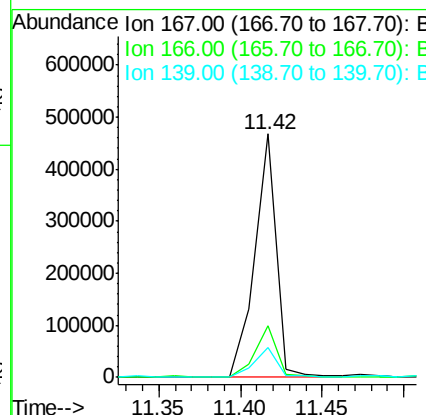
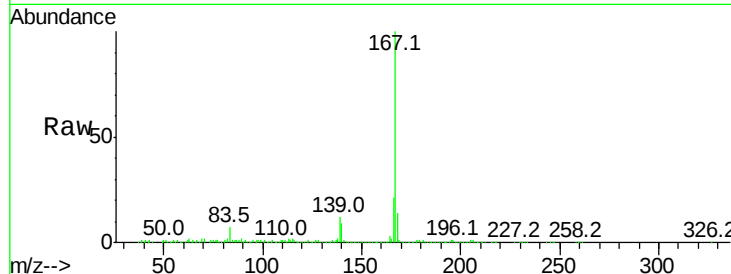
#72
 Carbazole
 Concen: 5.85 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.9	26.9
139	12.0	12.4	18.6

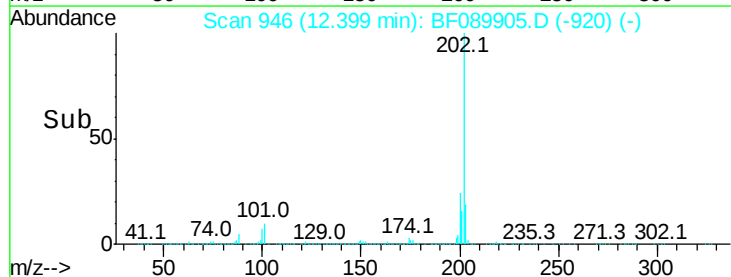
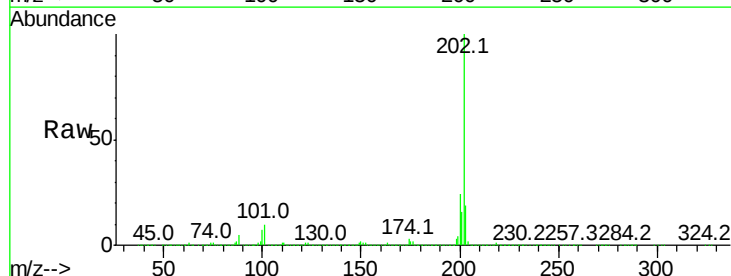
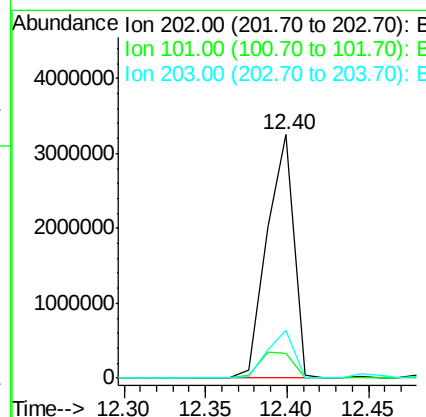
Manual Integrations
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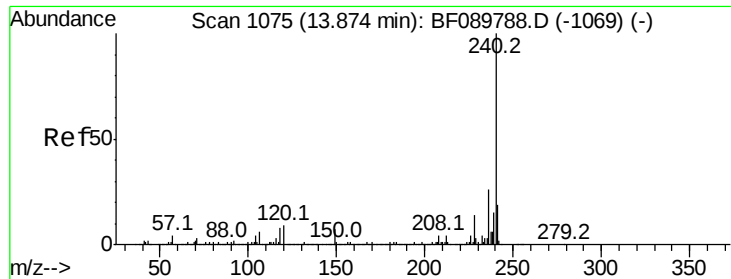
umangi
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#74
 Fluoranthene
 Concen: 49.09 ng
 RT: 12.40 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.2
203	19.4	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1074

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

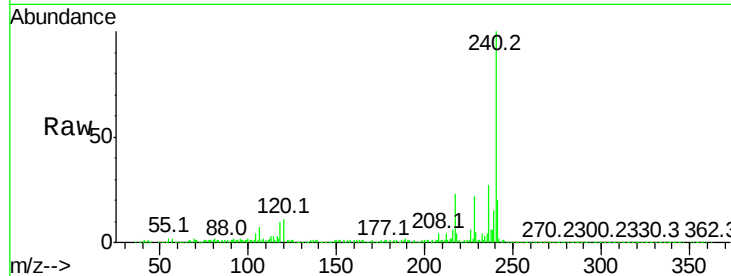
ClientSampled :

WC2-N-5-02

Tot Ion:	240	Resp:	1010510
Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.3	12.5
236	26.6	21.3	31.9

Manual Integrations
APPROVED

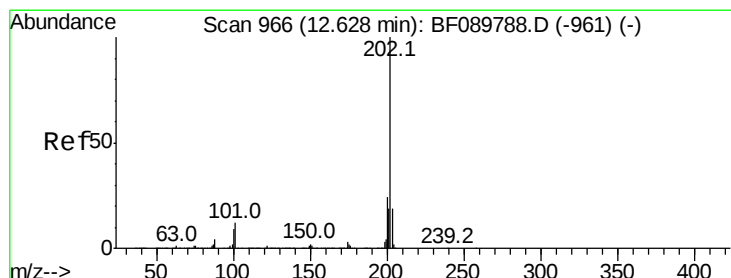
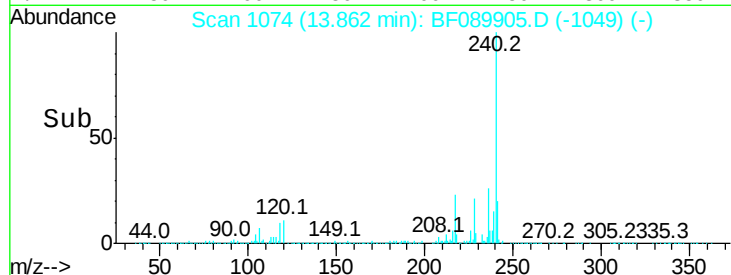
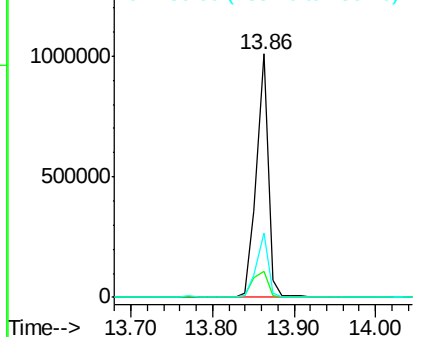
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 36.56 ng m

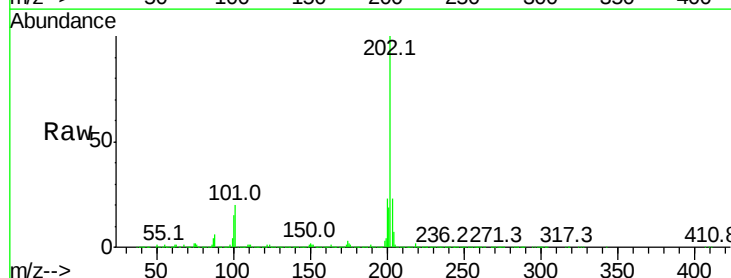
RT: 12.62 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

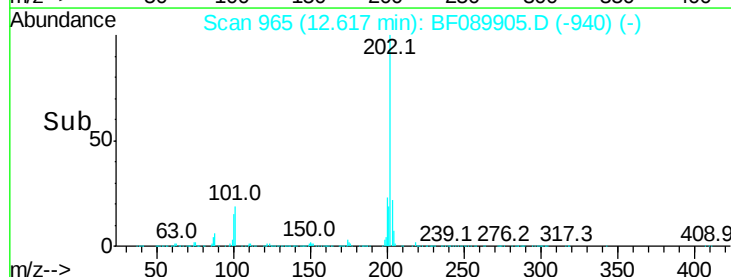
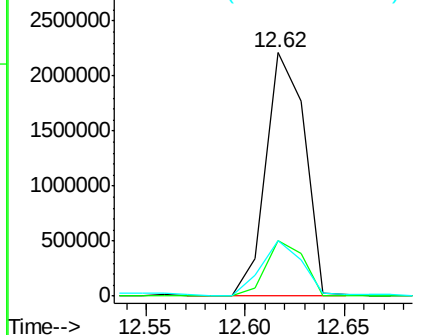
Tgt Ion:	202	Resp:	3008813
Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.8	26.6
203	22.9	14.2	21.4#

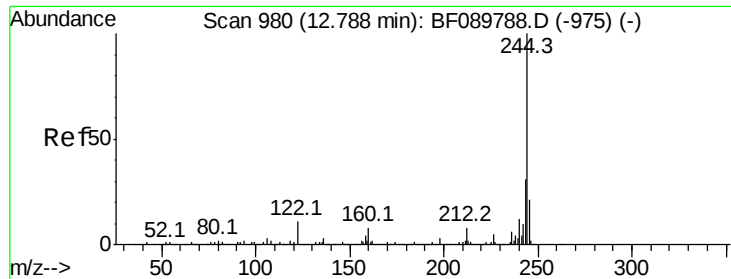


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.43 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

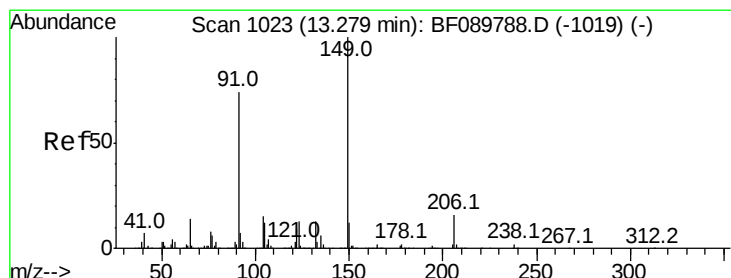
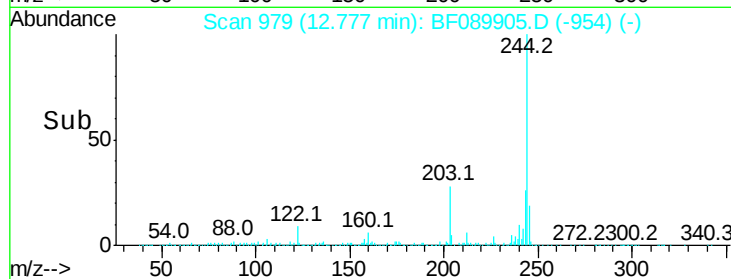
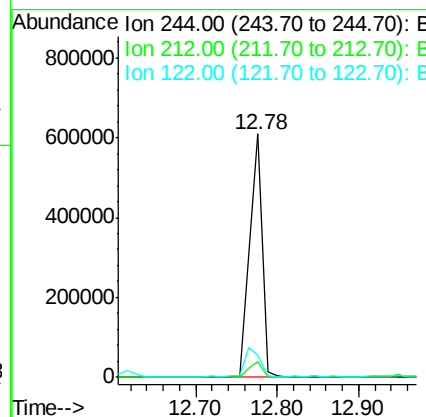
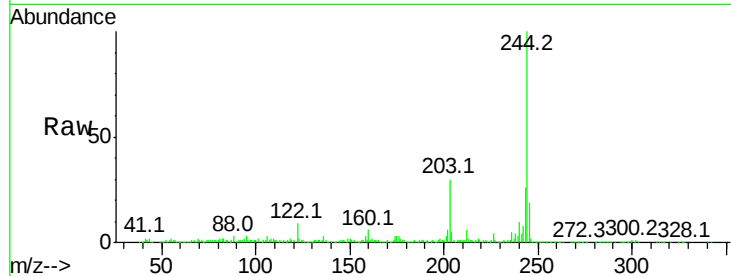
ClientSampleId :

WC2-N-5-02

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.4	6.3	9.5	
122	9.1	12.0	18.0	

Manual Integrations
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#79

Butylbenzylphthalate

Concen: 3.73 ng

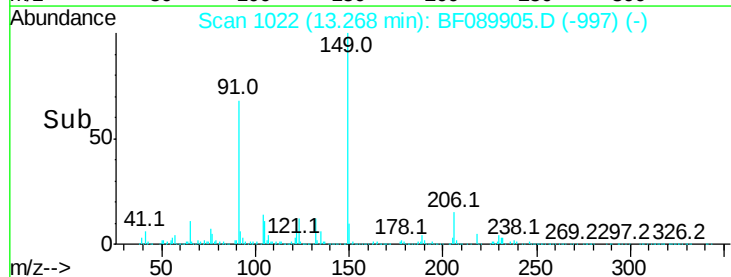
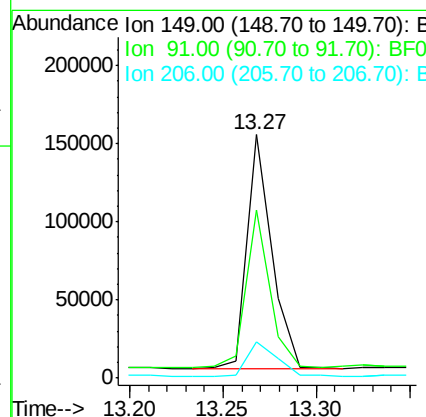
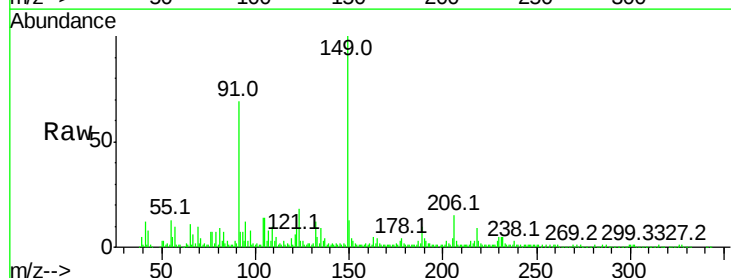
RT: 13.27 min Scan# 1022

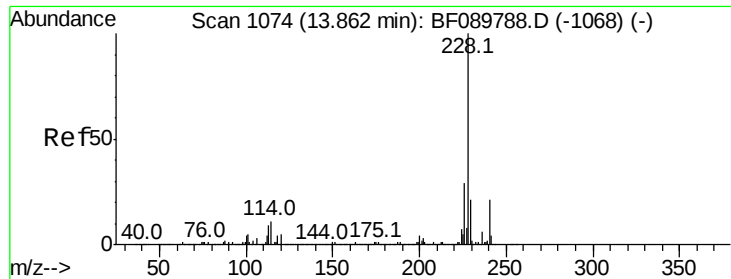
Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
91	68.8	50.7	76.1	
206	15.0	15.5	23.3	





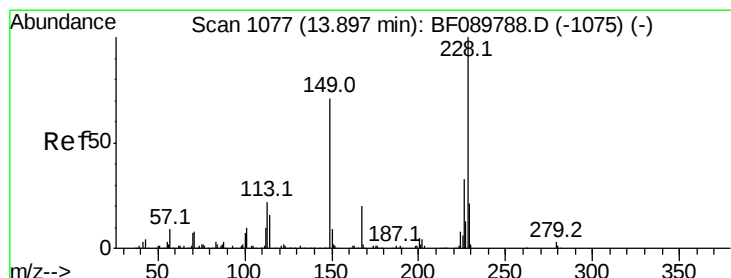
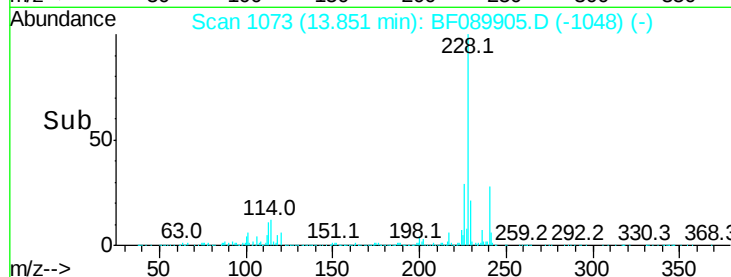
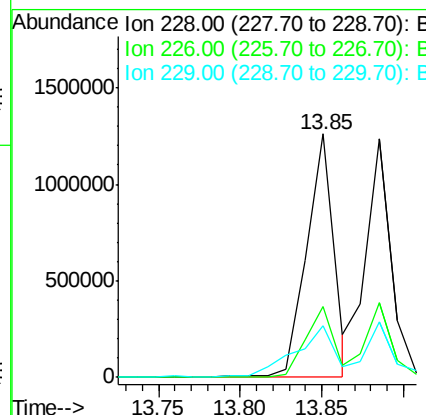
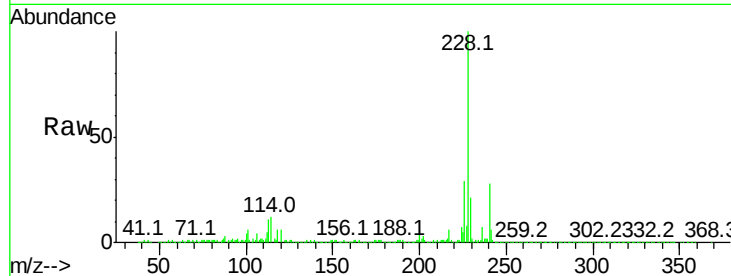
#80
Benzo(a)anthracene
Concen: 25.47 ng
RT: 13.85 min Scan# 1073
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.2	34.8
229	21.0	16.2	24.4

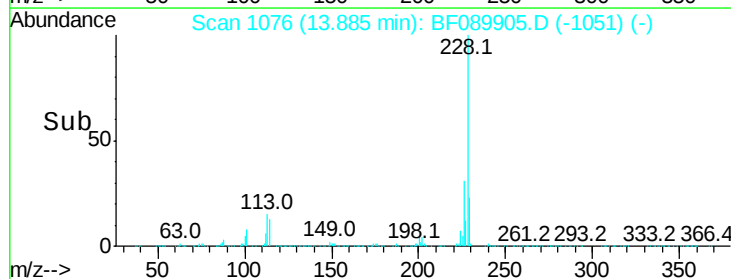
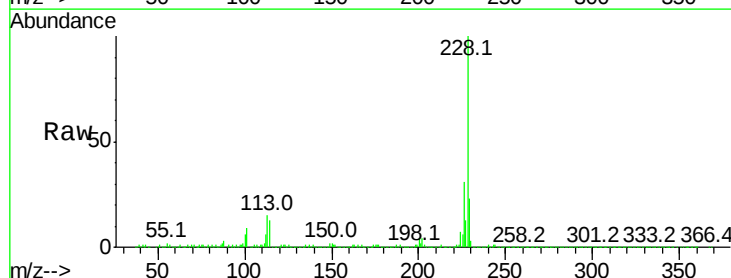
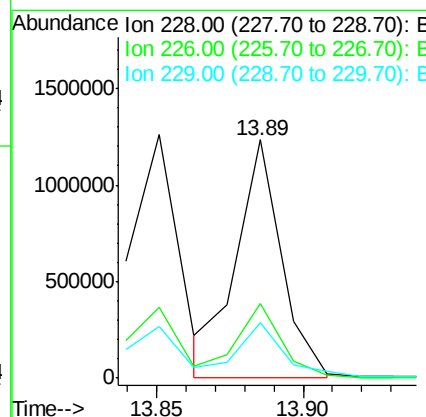
Manual Integrations
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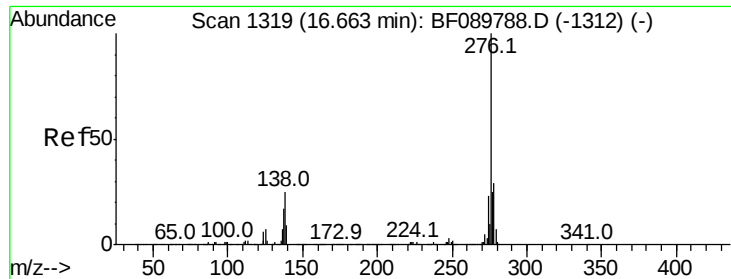
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#82
Chrysene
Concen: 26.61 ng m
RT: 13.89 min Scan# 1076
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.4	38.0
229	23.3	16.5	24.7





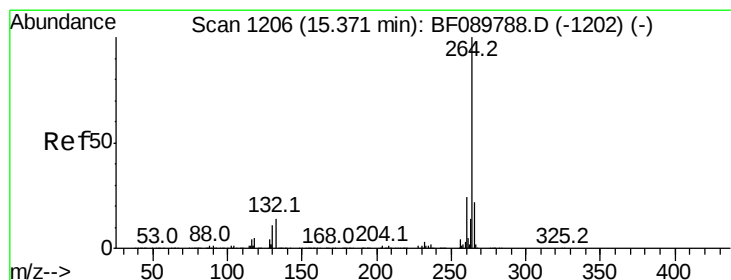
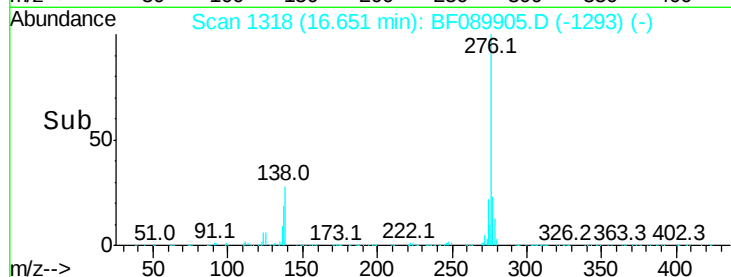
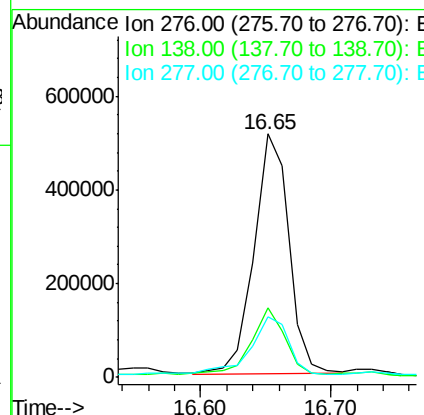
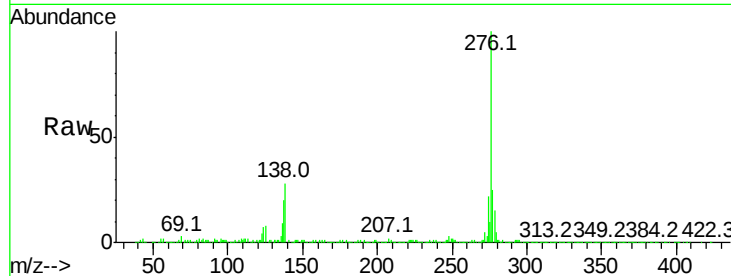
#85
Indeno(1,2,3-cd)pyrene
Concen: 15.17 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.2	24.6	36.8
277	28.0	20.4	30.6

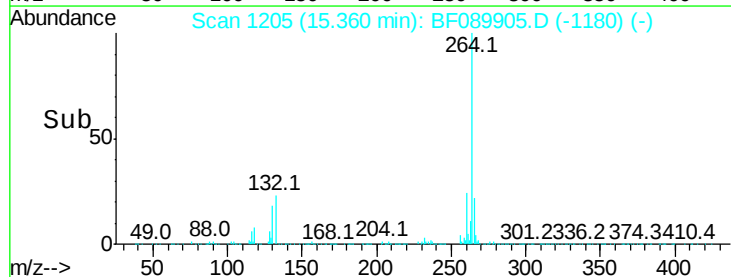
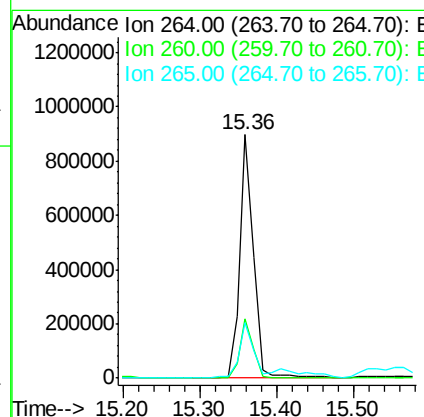
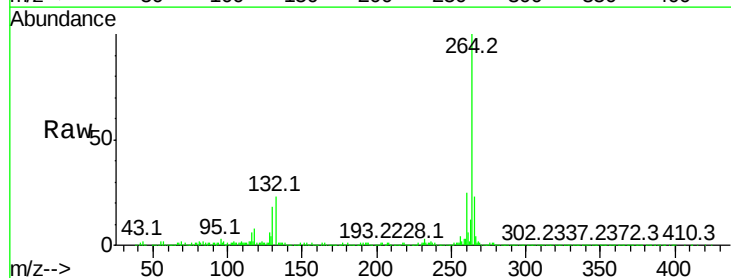
Manual Integrations
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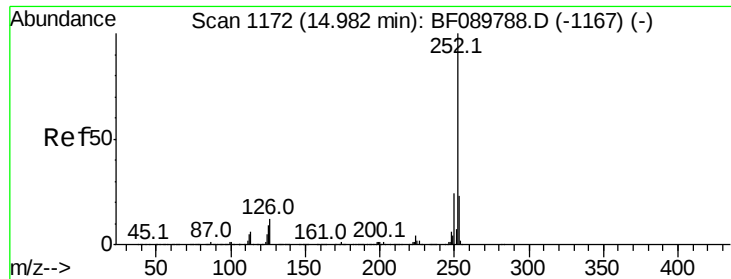
umangi
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	20.2	30.2
265	22.5	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 28.81 ng m

RT: 14.97 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Instrument :

BNA_F

ClientSampleId :

WC2-N-5-02

Tot Ion:252 Resp: 1801569

Ion Ratio Lower Upper

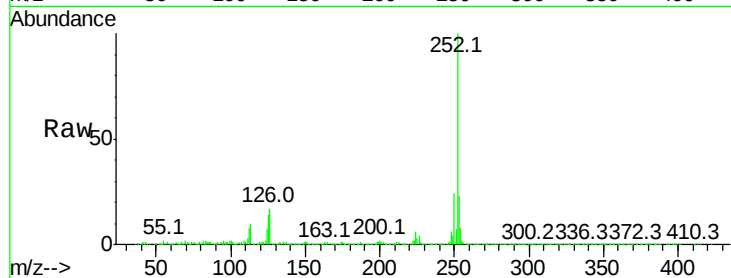
252 100

253 23.3 17.8 26.8

125 14.3 11.4 17.2

Manual Integrations
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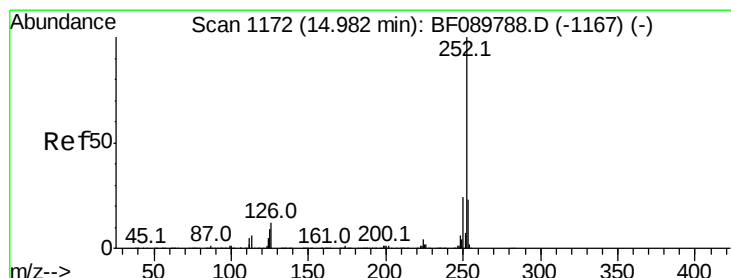
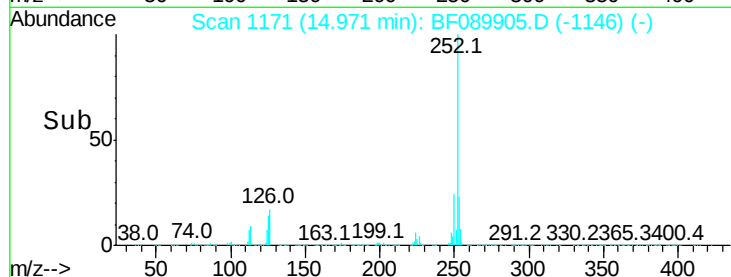
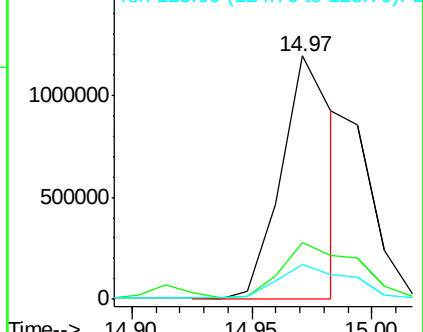
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 13.88 ng m

RT: 14.98 min Scan# 1172

Delta R.T. -0.02 min

Lab File: BF089905.D

Acq: 25 Aug 2016 6:25

Tgt Ion:252 Resp: 787310

Ion Ratio Lower Upper

252 100

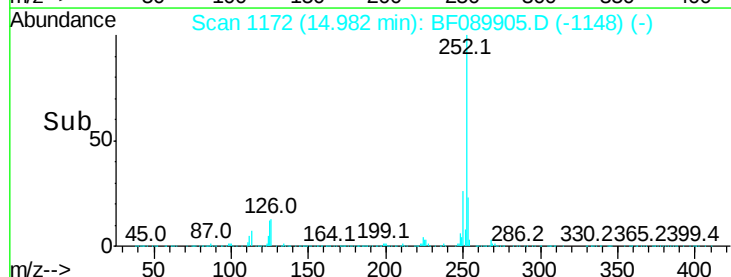
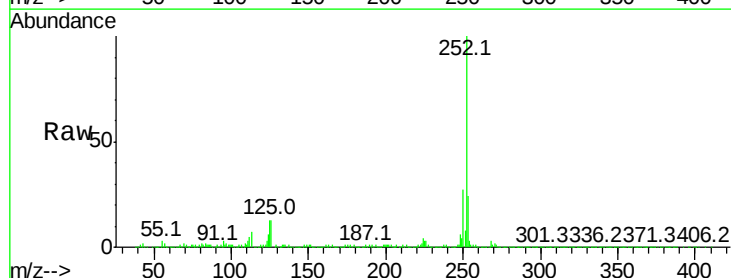
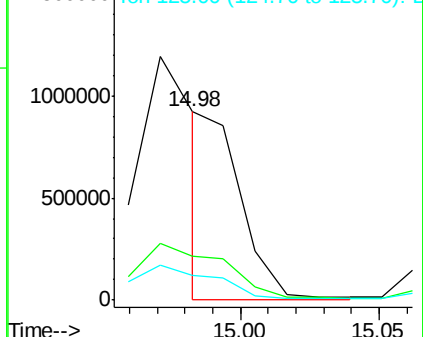
253 23.5 18.4 27.6

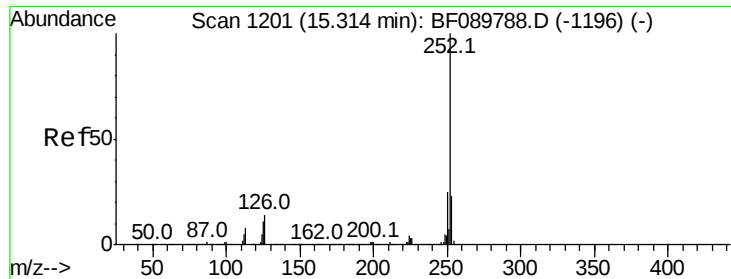
125 13.2 9.8 14.6

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





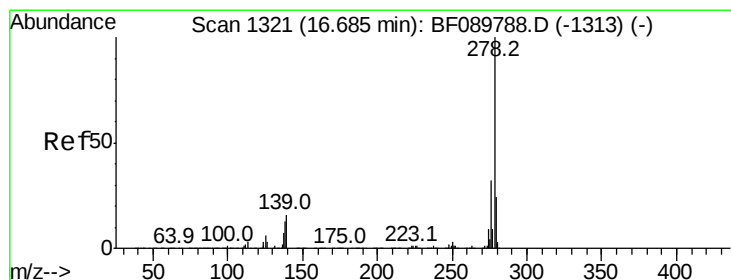
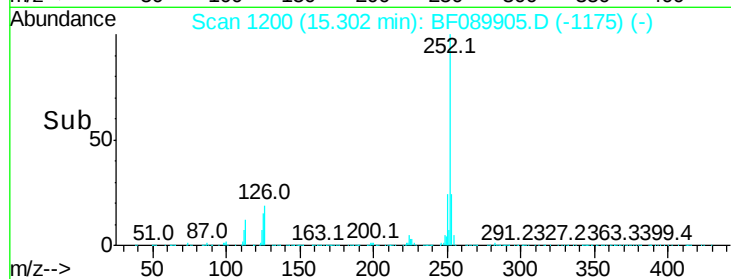
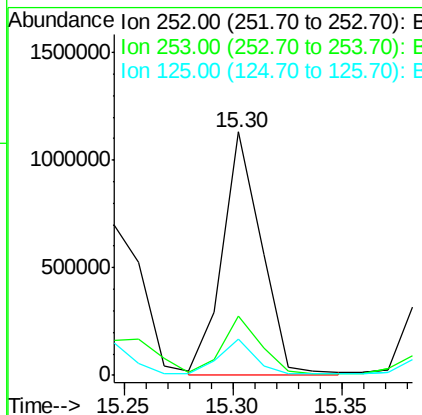
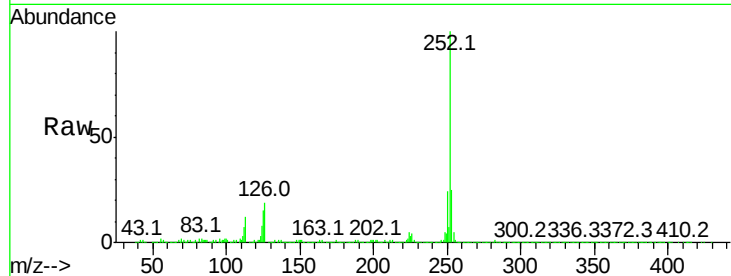
#89
Benzo(a)pyrene
Concen: 23.40 ng
RT: 15.30 min Scan# 1200
Delta R.T. -0.01 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.8	26.8
125	15.1	11.7	17.5

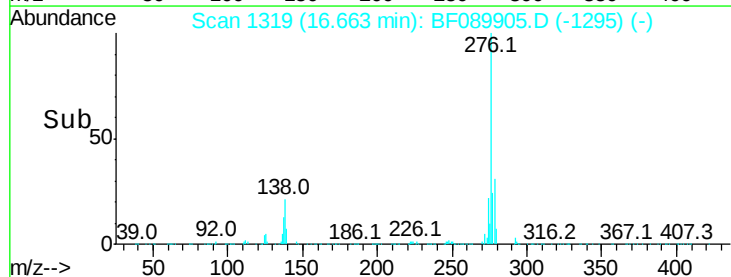
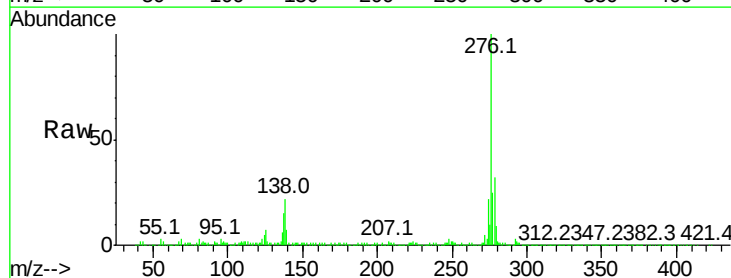
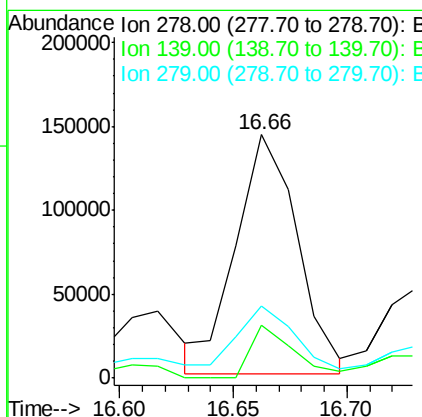
Manual Integrations
APPROVED

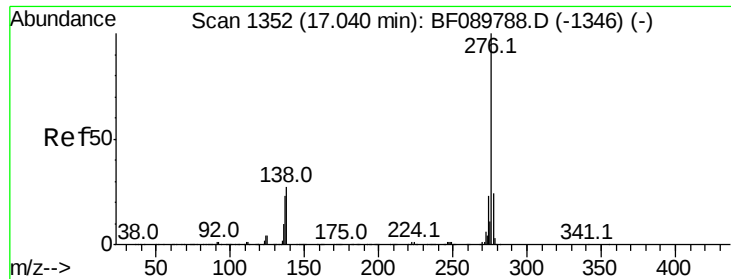
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#90
Dibenzo(a,h)anthracene
Concen: 4.19 ng m
RT: 16.66 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BF089905.D
Acq: 25 Aug 2016 6:25

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.9	14.9	22.3
279	29.6	19.2	28.8#





#91
 Benzo(a,h,i)perylene
 Concen: 13.24 ng
 RT: 17.04 min Scan# 1352
 Delta R.T. -0.00 min
 Lab File: BF089905.D
 Acq: 25 Aug 2016 6:25

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	26.0	22.1	33.1

Manual Integrations
 APPROVED

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