

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072117\
 Data File : BF096939.D
 Acq On : 21 Jul 2017 12:54
 Operator : SJ/JU
 Sample : I4253-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-O-P-6-7-WSW

Manual Integrations
 APPROVED

Sohil
 7/24/2017 3:05:06 PM

Quant Time: Jul 21 23:50:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	108003	20.00	ng	-0.05
21) Naphthalene-d8	7.83	136	446130	20.00	ng	-0.05
38) Acenaphthene-d10	9.58	164	178219	20.00	ng	-0.05
63) Phenanthrene-d10	11.06	188	302259	20.00	ng	-0.05
75) Chrysene-d12	13.69	240	196196	20.00	ng	-0.05
86) Perylene-d12	15.05	264	186816	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.16	112	854362	118.94	ng	-0.04
7) Phenol-d6	6.22	99	1090960	126.56	ng	-0.04
23) Nitrobenzene-d5	7.12	82	705888	98.01	ng	-0.05
41) 2,4,6-Tribromophenol	10.37	330	197785	130.01	ng	-0.05
44) 2-Fluorobiphenyl	8.92	172	957954	84.92	ng	-0.05
78) Terphenyl-d14	12.64	244	640898	56.65	ng	-0.05

Target Compounds				Qvalue		
10) Phenol	6.23	94	27537	2.826	ng	96
31) Naphthalene	7.86	128	50580	2.393	ng	98
49) Dimethylphthalate	9.31	163	256781	19.135	ng	99
51) Acenaphthene	9.62	154	22947	2.166	ng	98
57) Fluorene	10.13	166	26268	2.395	ng	# 92
70) Phenanthrene	11.08	178	365241	22.224	ng	99
71) Anthracene	11.13	178	111635	6.718	ng	98
72) Carbazole	11.29	167	43568	2.708	ng	98
74) Fluoranthene	12.27	202	588675	37.421	ng	100
77) Pyrene	12.49	202	534703	30.030	ng	99
80) Benzo(a)anthracene	13.67	228	323330	26.449	ng	96
82) Chrysene	13.72	228	293587	24.395	ng	97
85) Indeno(1,2,3-cd)pyrene	16.32	276	215203	21.436	ng	96
87) Benzo(b)fluoranthene	14.69	252	427867m	37.975	ng	
88) Benzo(k)fluoranthene	14.70	252	151433m	14.193	ng	
89) Benzo(a)pyrene	15.00	252	343865	33.275	ng	98
90) Dibenzo(a,h)anthracene	16.32	278	53584	5.635	ng	# 74
91) Benzo(g,h,i)perylene	16.70	276	205167	20.149	ng	97

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

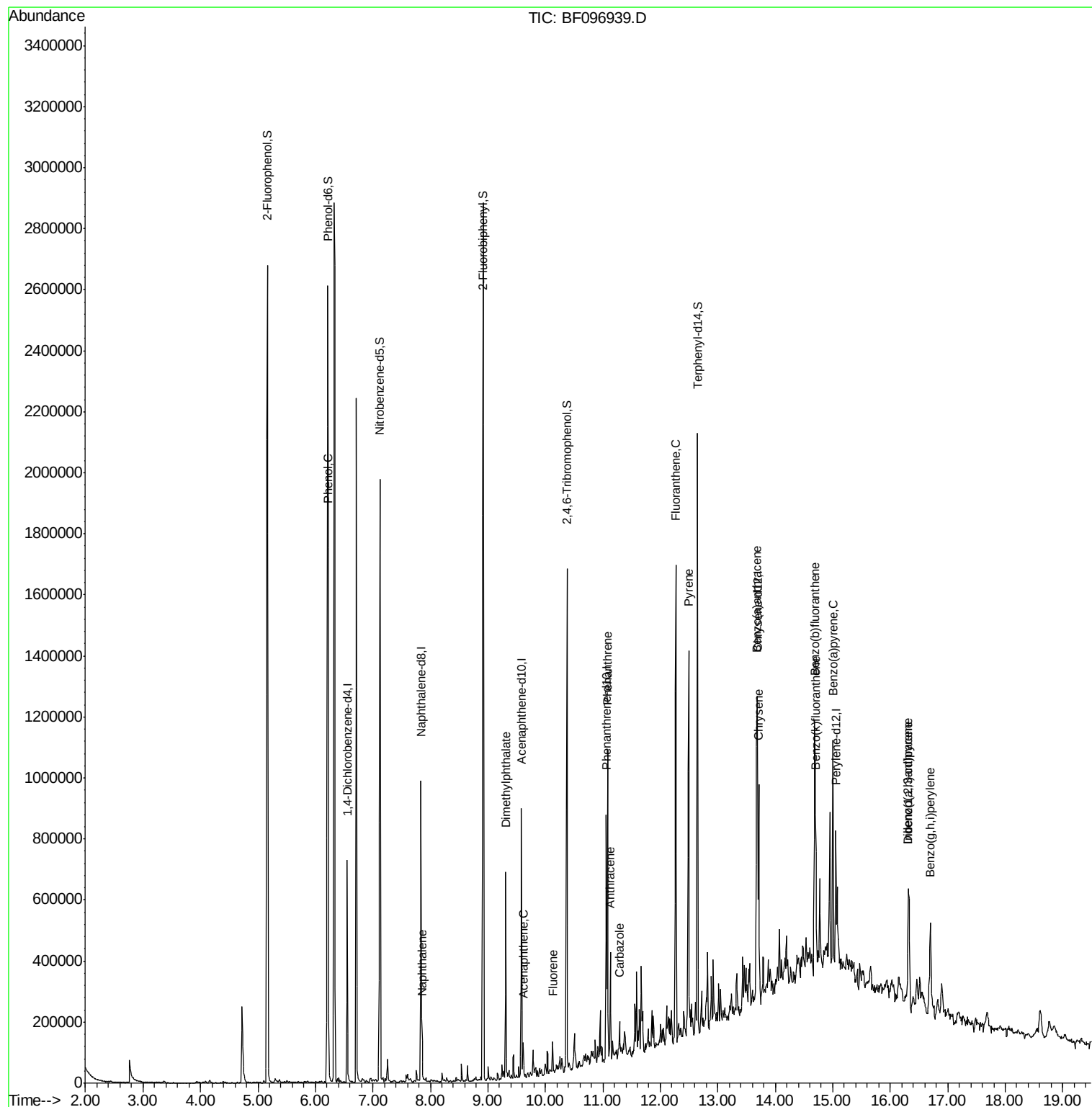
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072117\
Data File : BF096939.D
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Sample : I4253-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

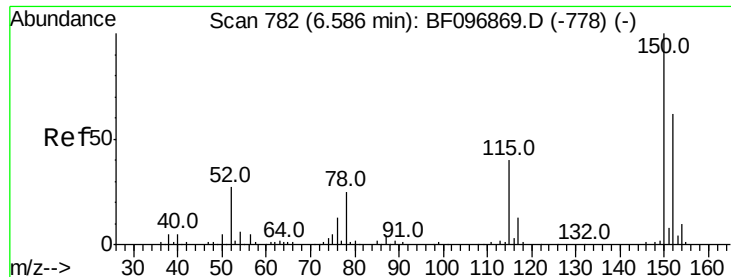
Instrument :
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E2-O-P-6-7-WSW

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#1

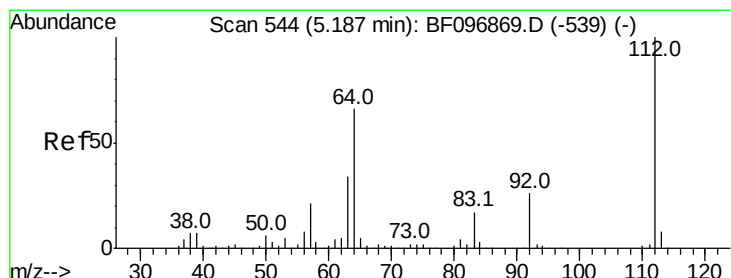
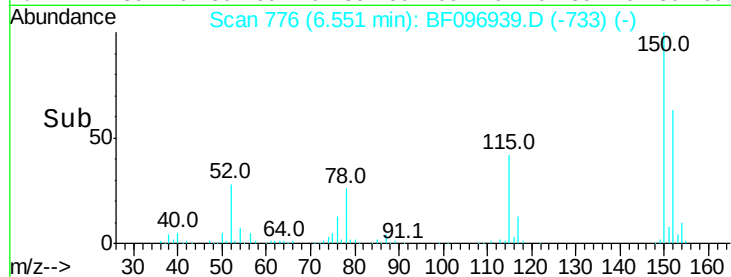
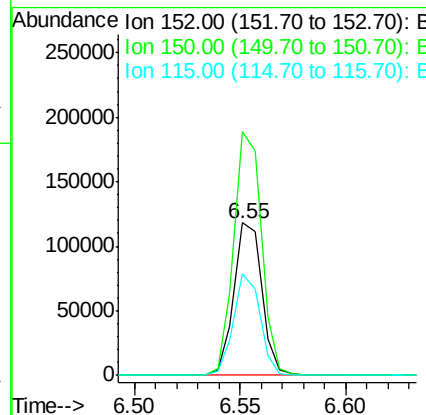
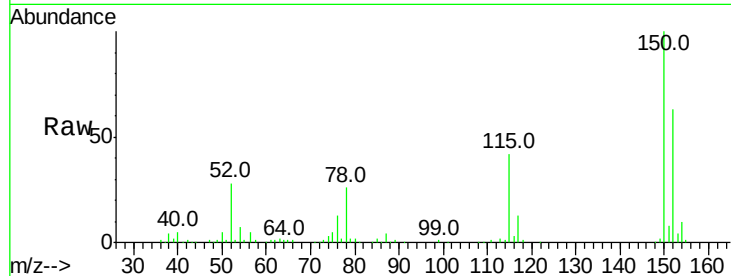
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.55 min Scan# 776
 Delta R.T. -0.05 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.2	189.2
115	66.9	52.2	78.2

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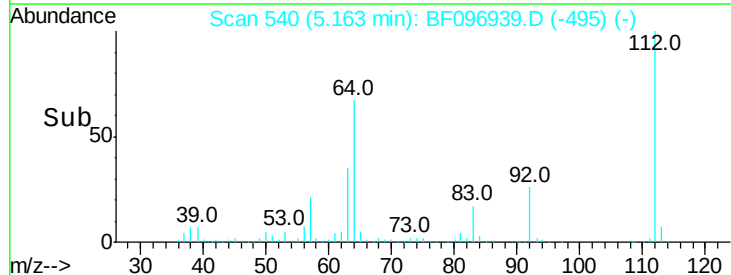
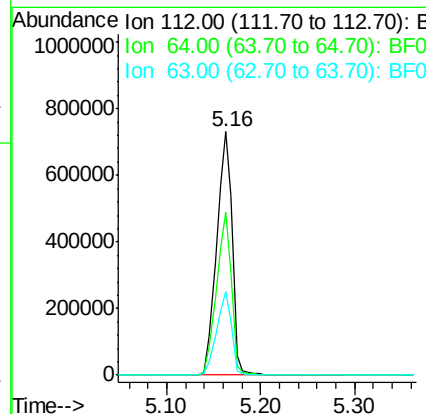
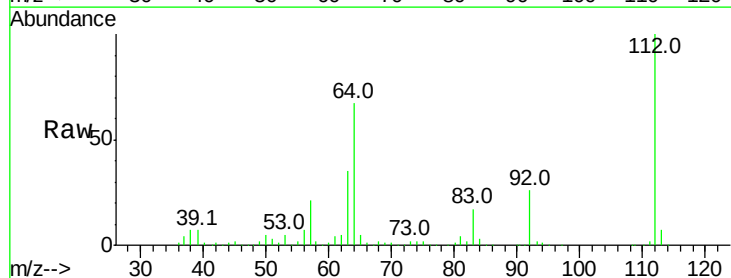
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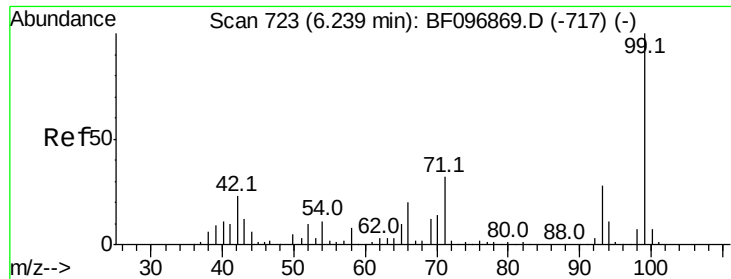


#5

2-Fluorophenol
 Concen: 118.942 ng
 RT: 5.16 min Scan# 540
 Delta R.T. -0.04 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.1	46.0	69.0
63	34.6	23.4	35.0





#7

Phenol-d6

Concen: 126.564 ng

RT: 6.22 min Scan# 719

Delta R.T. -0.04 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

ClientSampleId :

E2-O-P-6-7-WSW

Tot Ion: 99 Resp: 1090960

Ion Ratio Lower Upper

99 100

42 22.6 13.5 20.3#

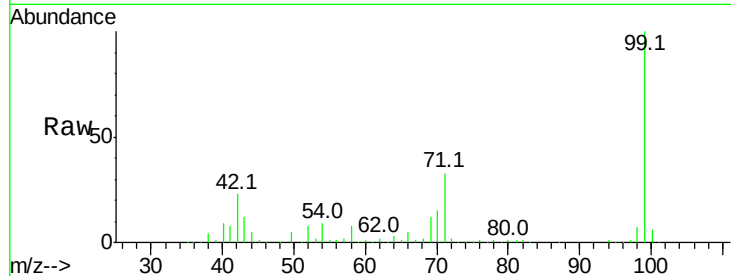
71 33.0 24.5 36.7

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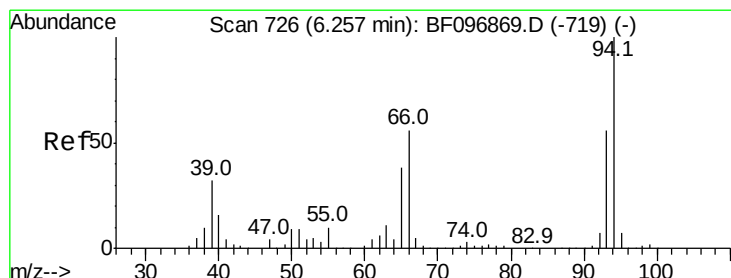
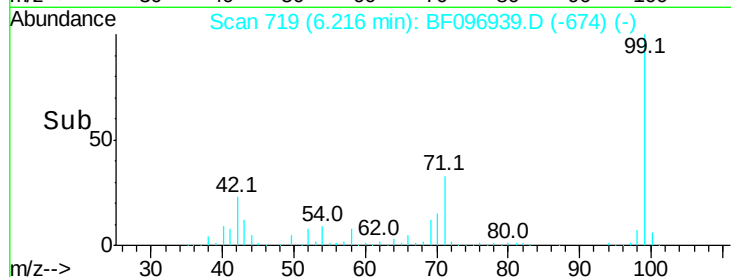
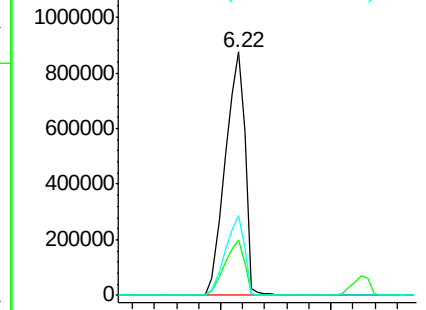
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.826 ng

RT: 6.23 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

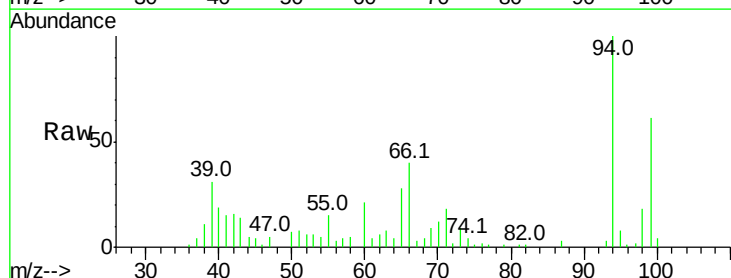
Tgt Ion: 94 Resp: 27537

Ion Ratio Lower Upper

94 100

65 28.0 9.9 49.9

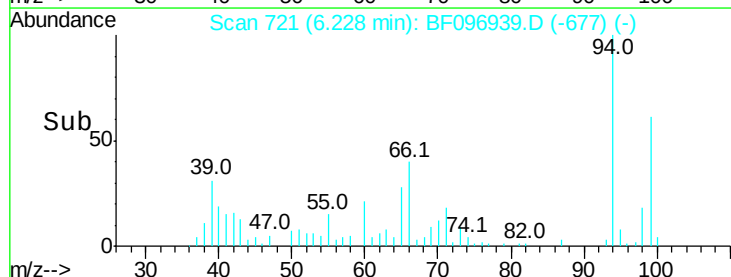
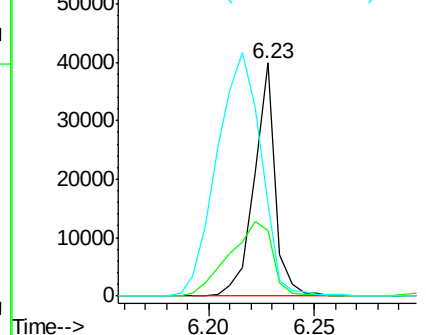
66 40.0 23.1 63.1

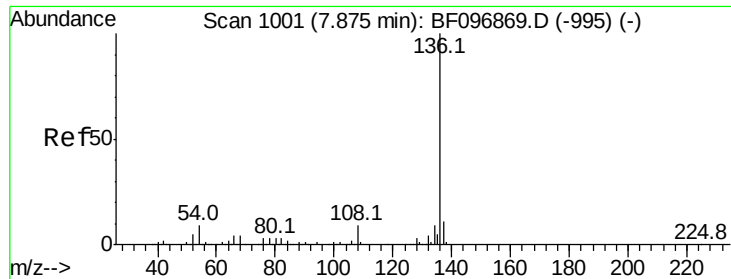


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





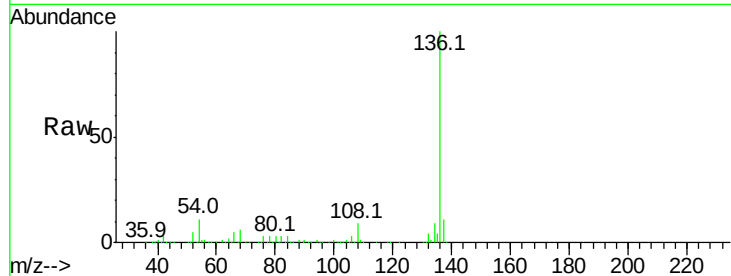
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.83 min Scan# 994
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Instrument :
BNA_F
ClientSampleId :
E2-O-P-6-7-WSW

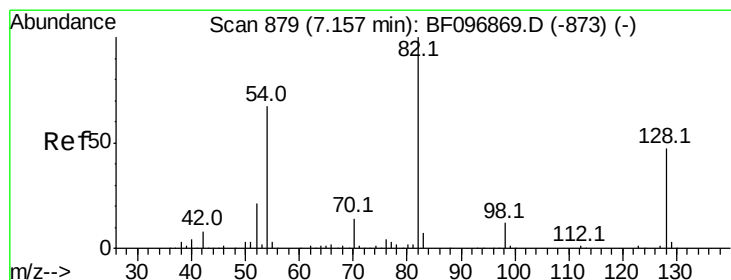
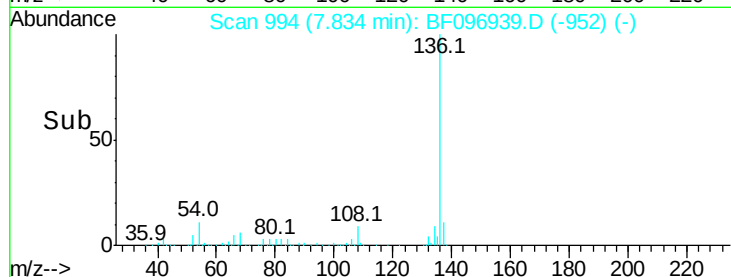
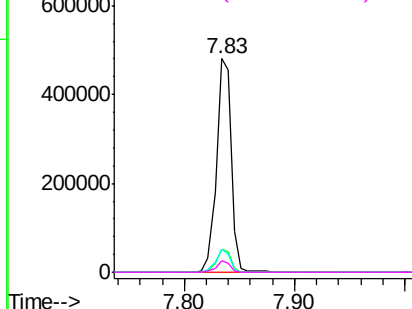
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	10.9	4.9	7.3#	
68	5.7	4.1	6.1	

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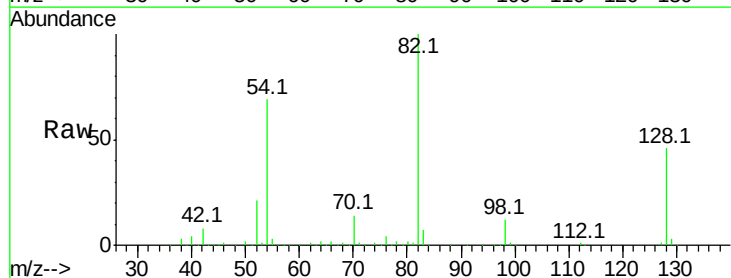


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

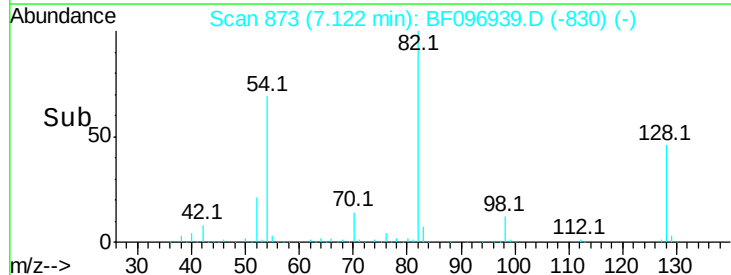
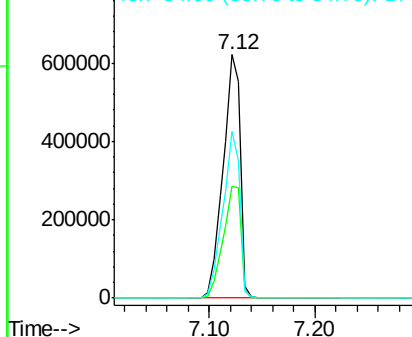


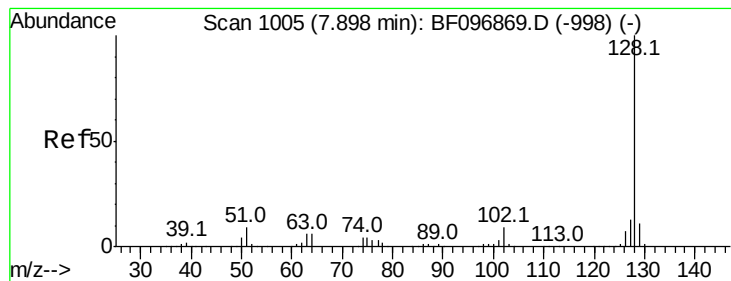
#23
Nitrobenzene-d5
Concen: 98.006 ng
RT: 7.12 min Scan# 873
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.0	34.0	51.0	
54	68.6	42.2	63.2#	



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





#31

Naphthalene

Concen: 2.393 ng

RT: 7.86 min Scan# 998

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

ClientSampleId :

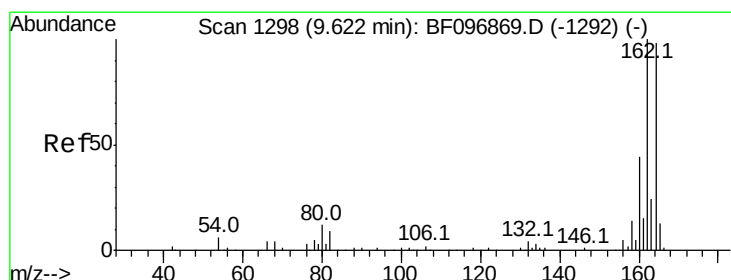
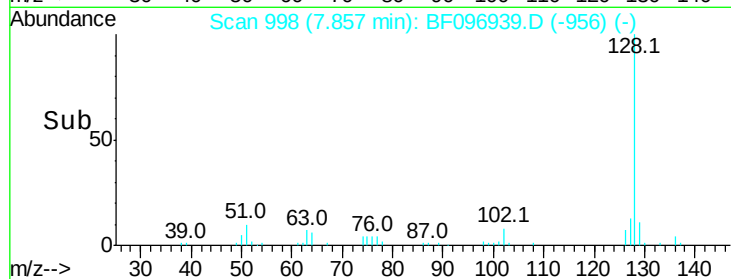
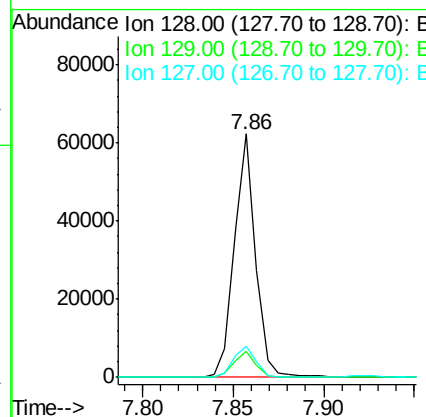
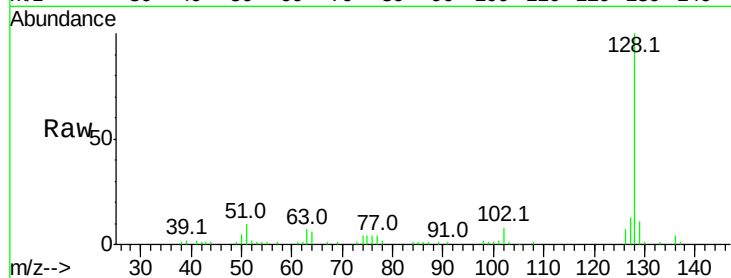
E2-O-P-6-7-WSW

Tot Ion:	128	Resp:	50580
Ion Ratio	Lower	Upper	
128	100		
129	10.6	9.0	13.6
127	12.7	10.8	16.2

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#38

Acenaphthene-d10

Concen: 20.000 ng

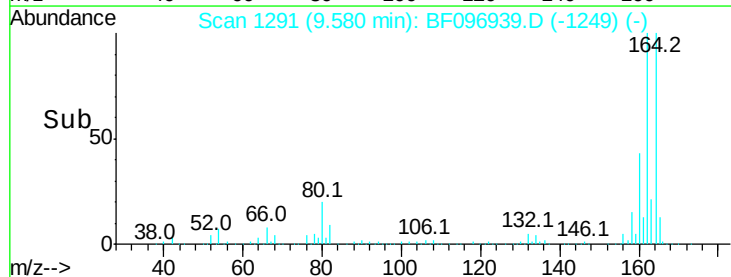
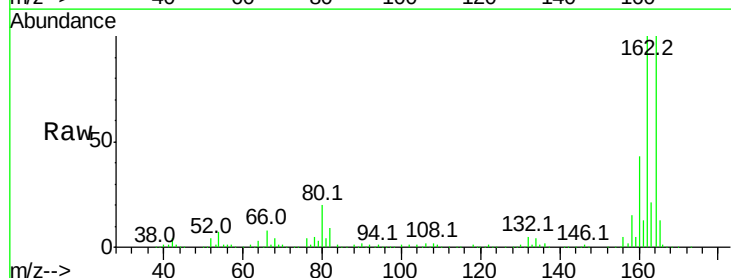
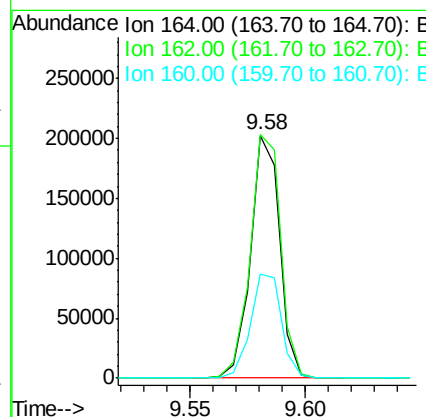
RT: 9.58 min Scan# 1291

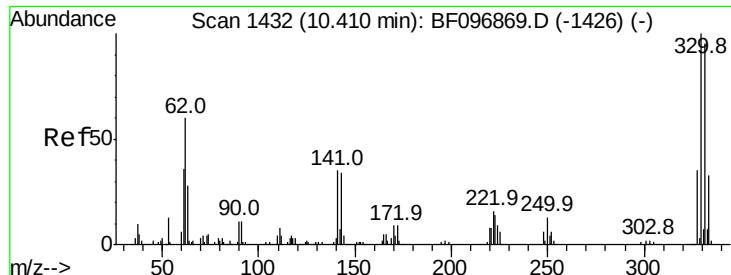
Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Tgt Ion:	164	Resp:	178219
Ion Ratio	Lower	Upper	
164	100		
162	100.4	82.6	123.8
160	42.8	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 130.015 ng

RT: 10.37 min Scan# 1426

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

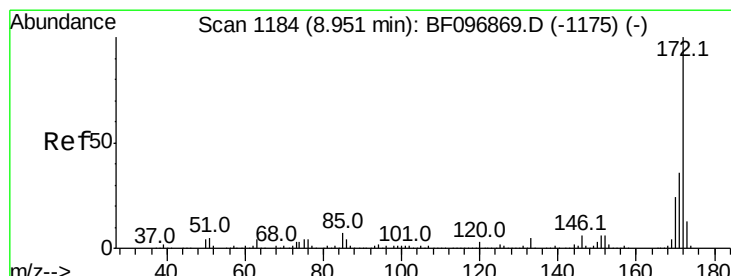
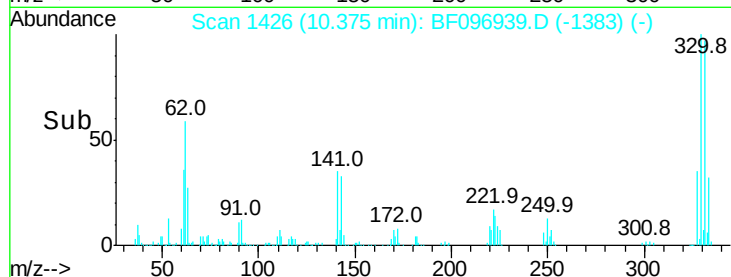
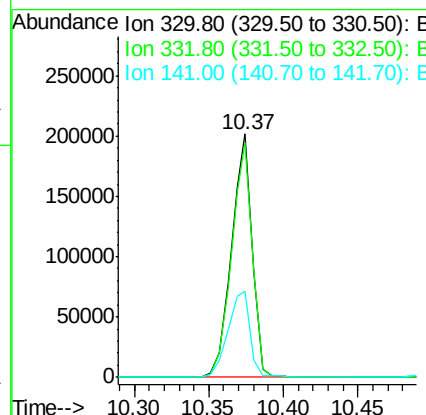
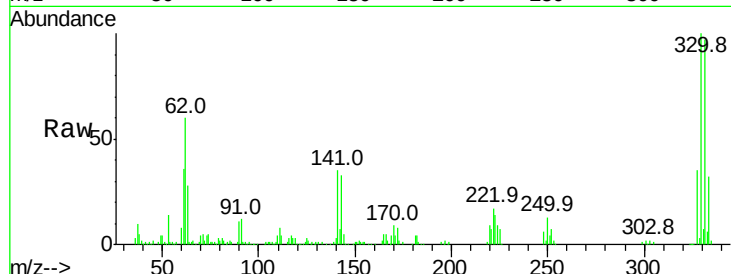
ClientSampleId :

E2-O-P-6-7-WSW

Tot Ion:	330	Resp:	197785
Ion Ratio	Lower	Upper	
330	100		
332	97.5	76.6	115.0
141	38.9	31.4	47.2

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#44

2-Fluorobiphenyl

Concen: 84.923 ng

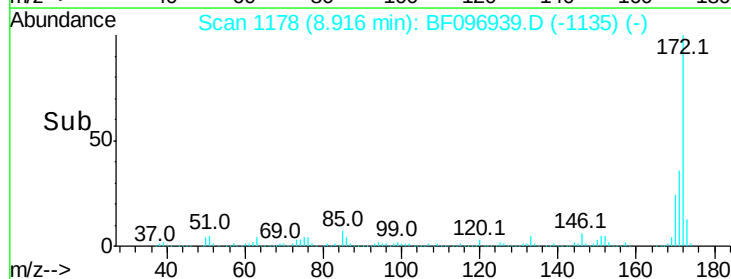
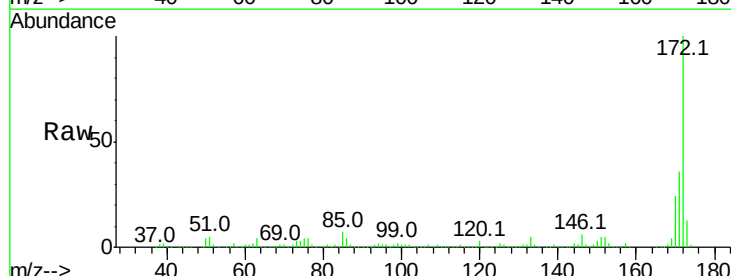
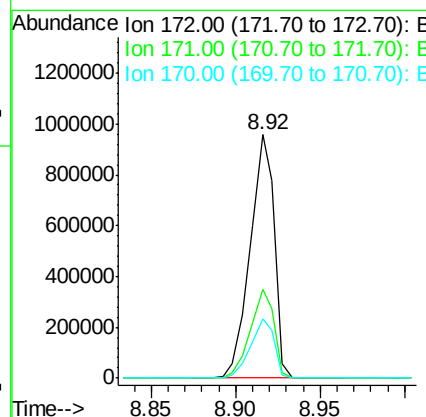
RT: 8.92 min Scan# 1178

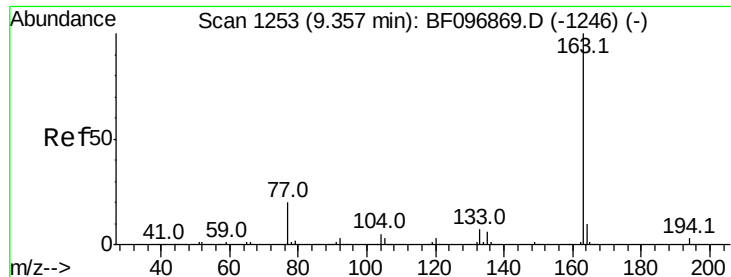
Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Tgt Ion:	172	Resp:	957954
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.6	44.4
170	24.3	19.8	29.8





#49

Dimethylphthalate

Concen: 19.135 ng

RT: 9.31 min Scan# 1245

Delta R.T. -0.06 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

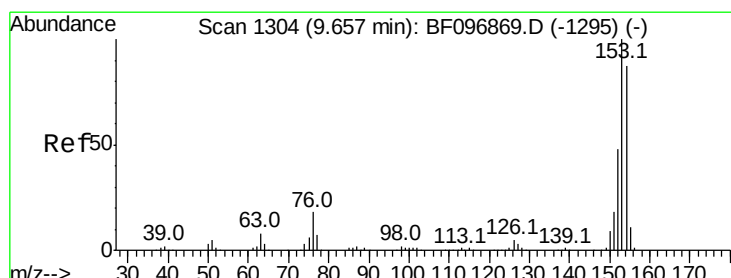
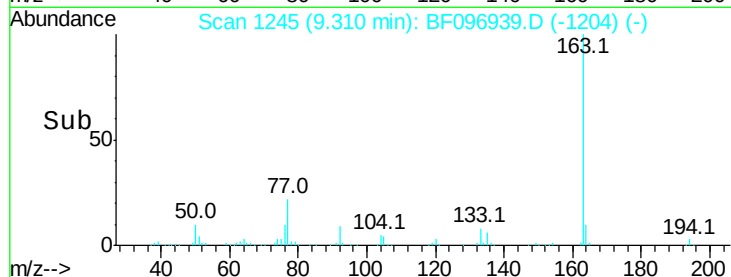
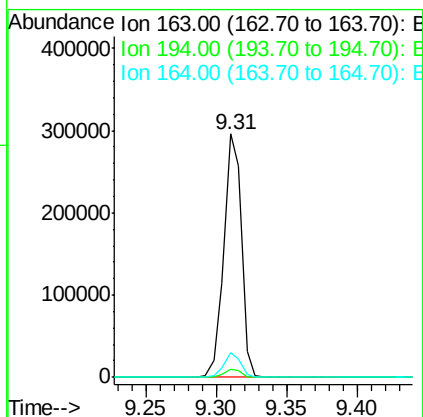
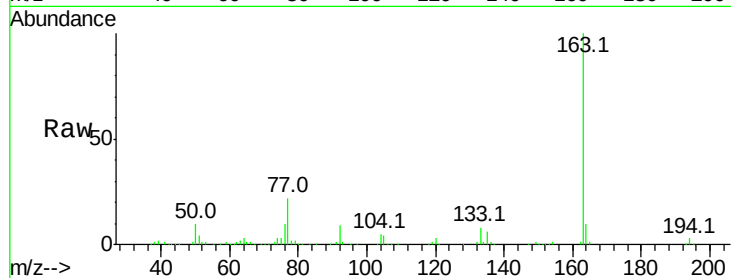
ClientSampleId :

E2-O-P-6-7-WSW

Tot Ion:	163	Resp:	256781
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.6	4.0
164	10.1	8.4	12.6

Manual Integrations
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#51

Acenaphthene

Concen: 2.166 ng

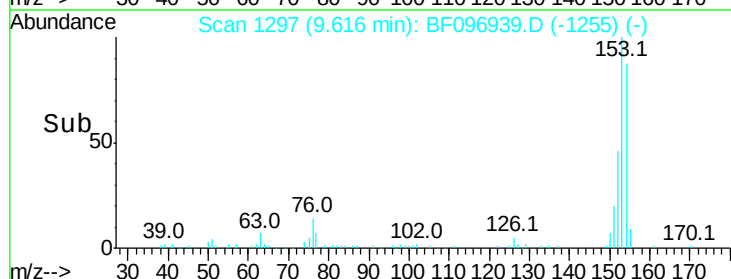
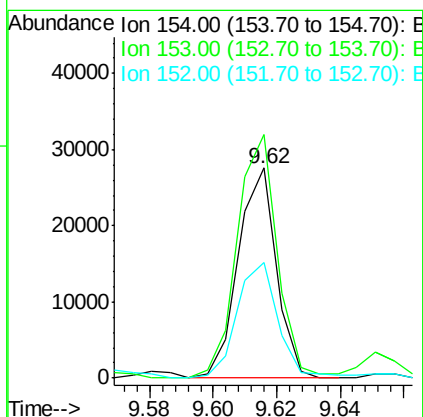
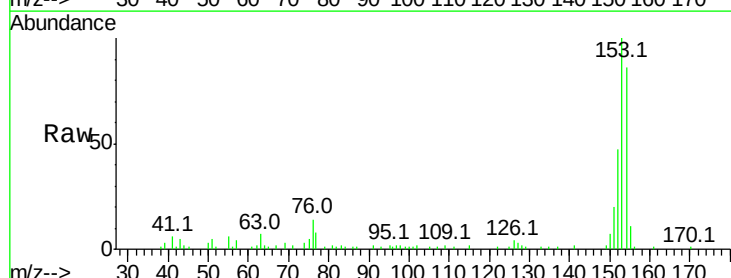
RT: 9.62 min Scan# 1297

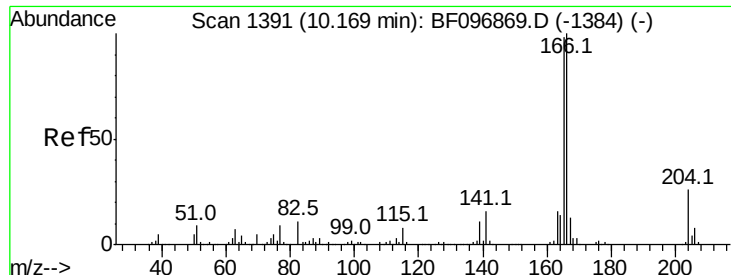
Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Tgt Ion:	154	Resp:	22947
Ion Ratio	Lower	Upper	
154	100		
153	116.1	90.5	135.7
152	55.1	43.6	65.4





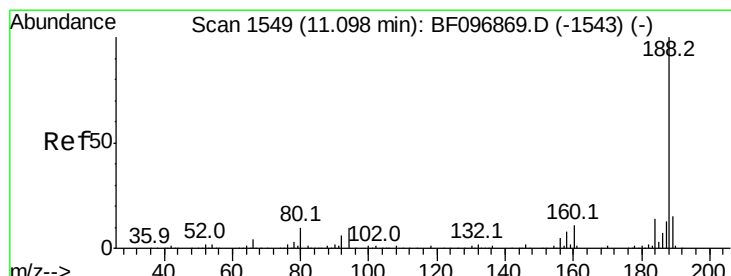
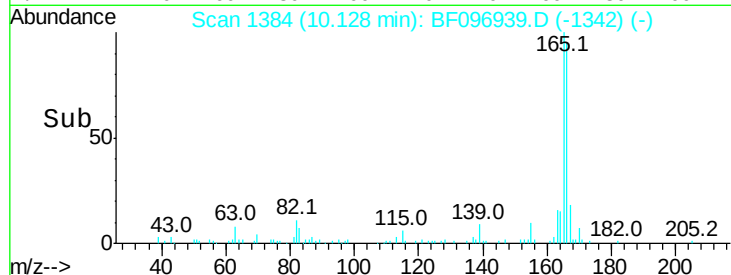
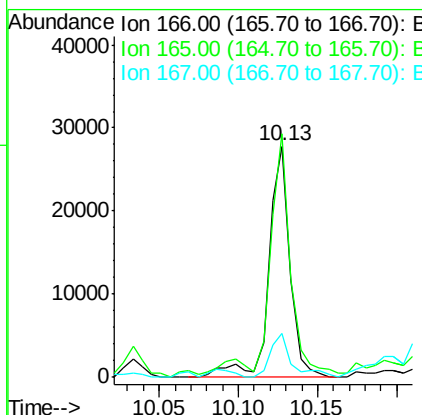
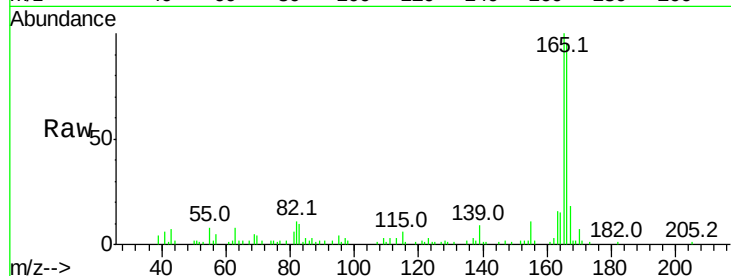
#57
Fluorene
 Concen: 2.395 ng
 RT: 10.13 min Scan# 1384
 Delta R.T. -0.05 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-O-P-6-7-WSW

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	105.2	78.8	118.2	
167	18.8	10.6	16.0	

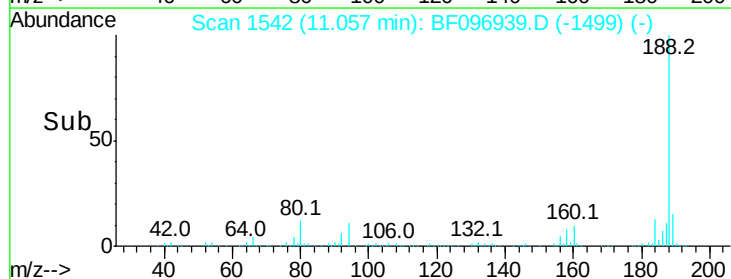
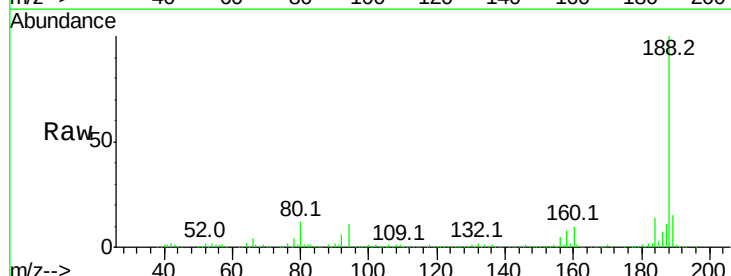
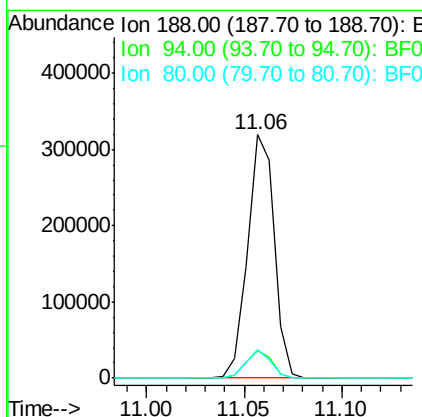
Manual Integrations
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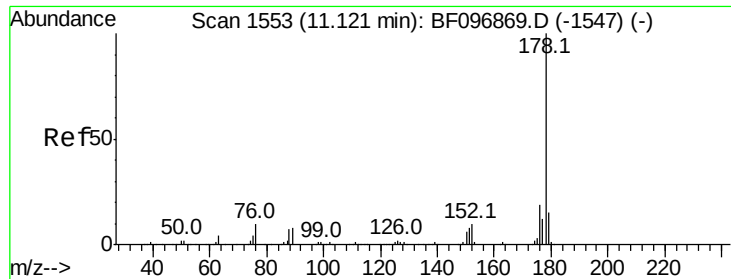
Sohil
 7/24/2017 3:05:06 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.06 min Scan# 1542
 Delta R.T. -0.05 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.3	9.4	14.2	
80	11.6	10.2	15.2	





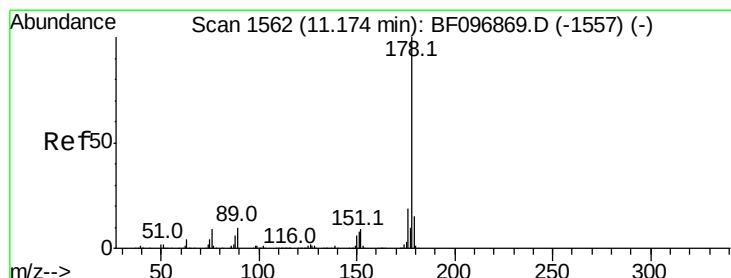
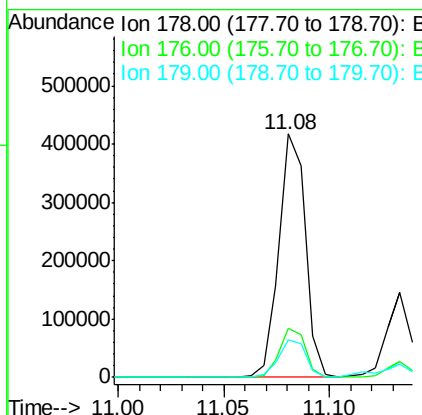
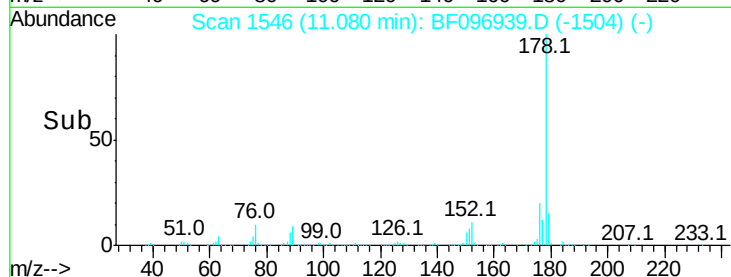
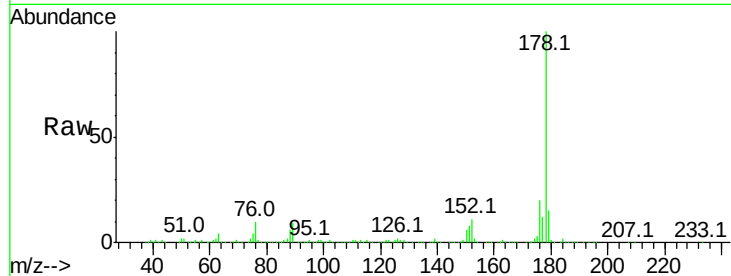
#70
Phenanthrene
Concen: 22.224 ng
RT: 11.08 min Scan# 1546
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Instrument :
BNA_F
ClientSampleId :
E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.2	24.4
179	15.3	12.6	19.0

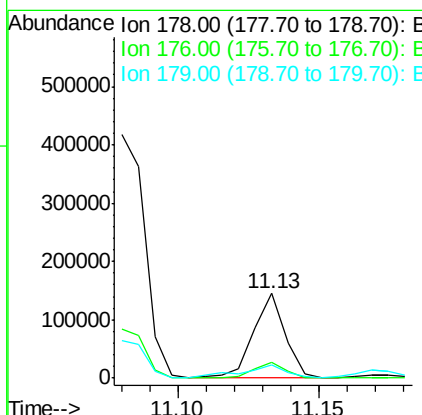
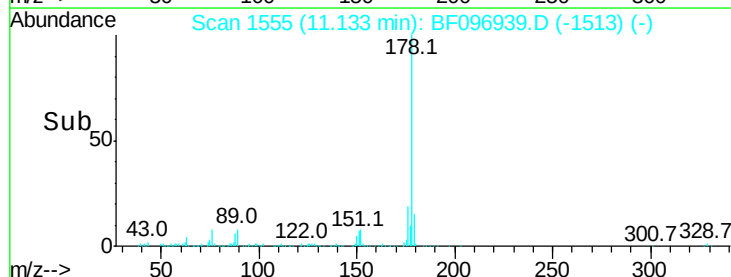
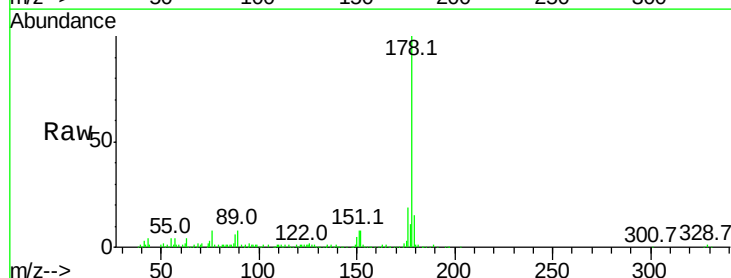
Manual Integrations
APPROVED

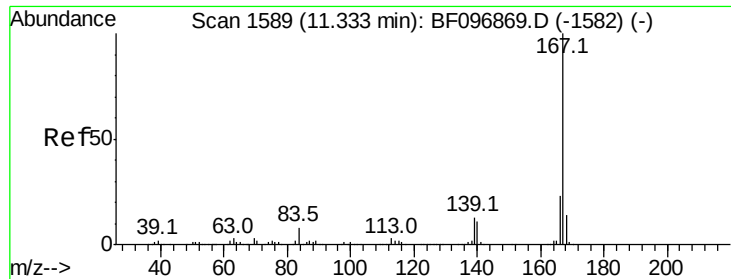
Sohil
7/24/2017 3:05:06 PM



#71
Anthracene
Concen: 6.718 ng
RT: 11.13 min Scan# 1555
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.2	12.7	19.1





#72

Carbazole

Concen: 2.708 ng

RT: 11.29 min Scan# 1582

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

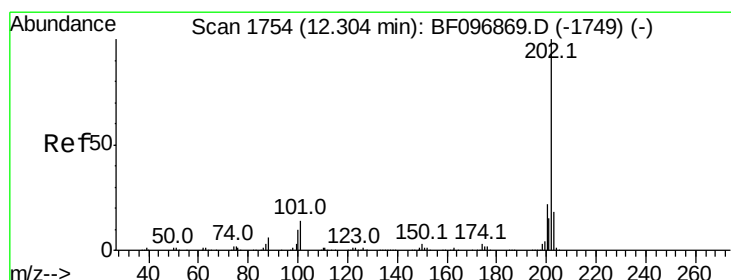
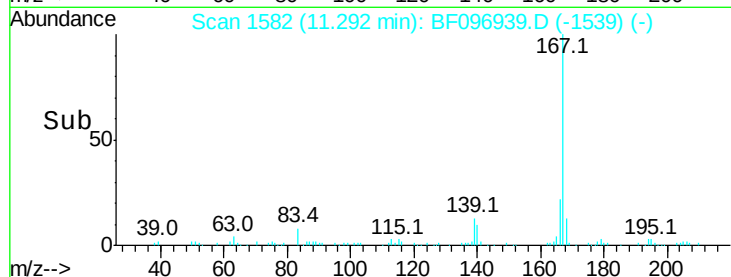
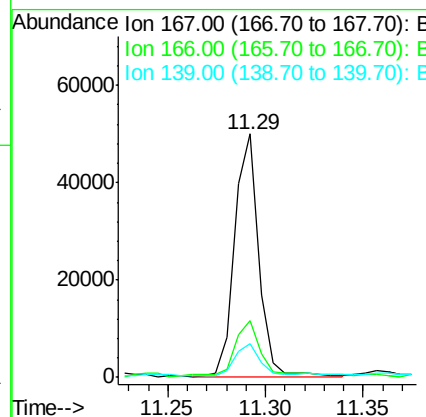
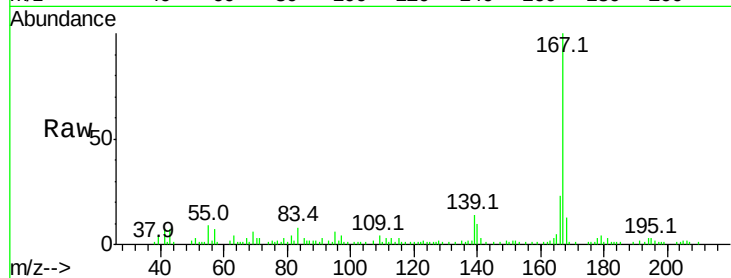
ClientSampleId :

E2-O-P-6-7-WSW

Tot Ion:	167	Resp:	43568
Ion Ratio	Lower	Upper	
167	100		
166	23.1	18.1	27.1
139	13.6	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 37.421 ng

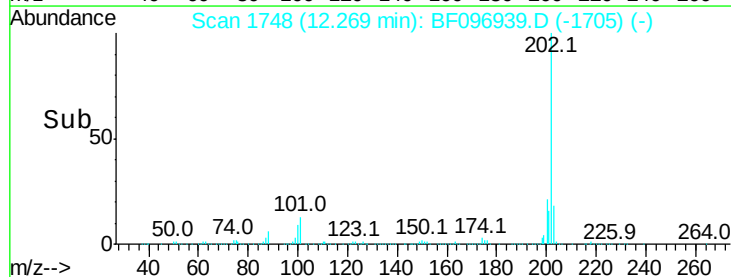
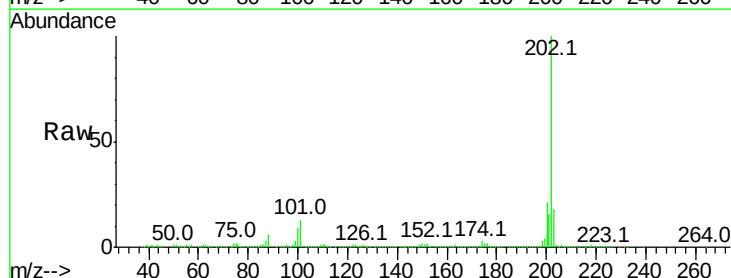
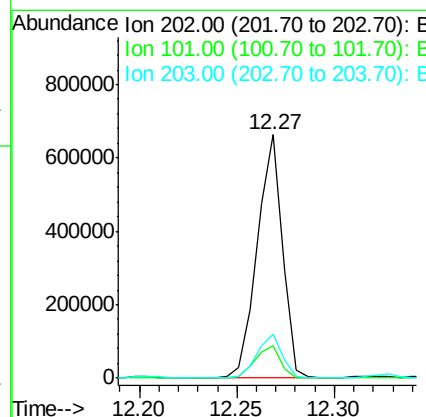
RT: 12.27 min Scan# 1748

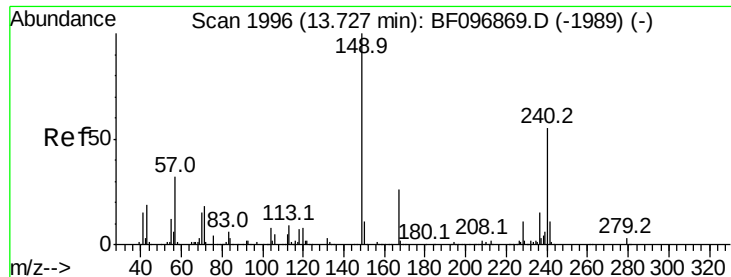
Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Tgt Ion:	202	Resp:	588675
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	33.2
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.69 min Scan# 1989

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

ClientSampleId :

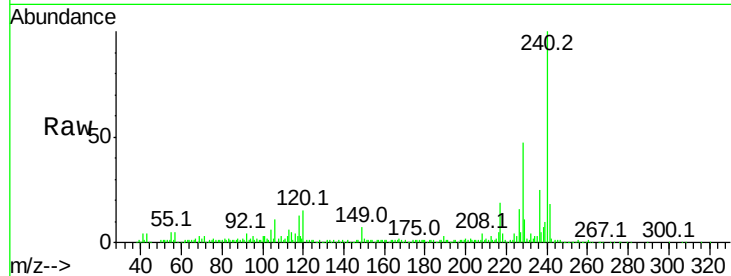
E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	25.2	20.5	30.7

Manual Integrations
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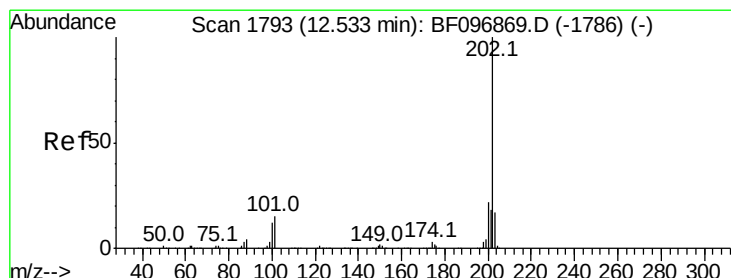
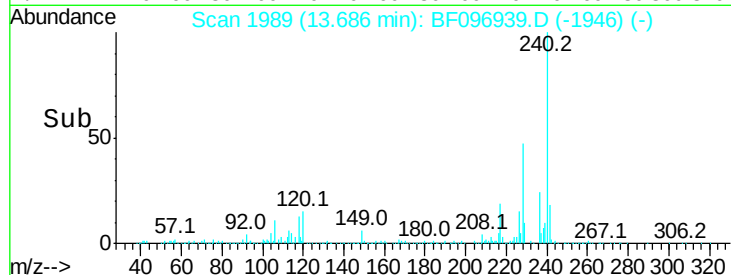
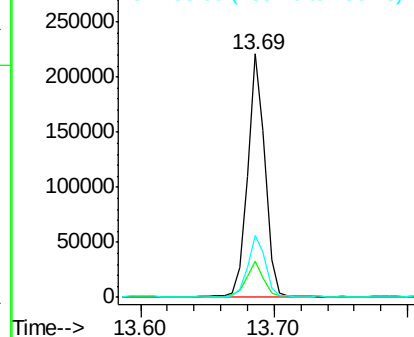
7/24/2017 3:05:06 PM



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: 30.030 ng

RT: 12.49 min Scan# 1786

Delta R.T. -0.05 min

Lab File: BF096939.D

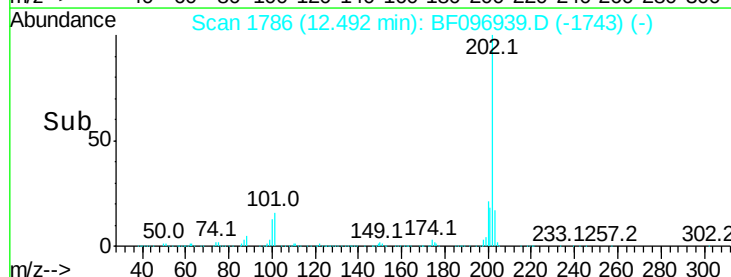
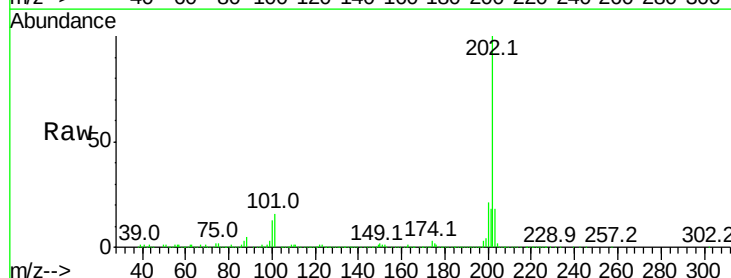
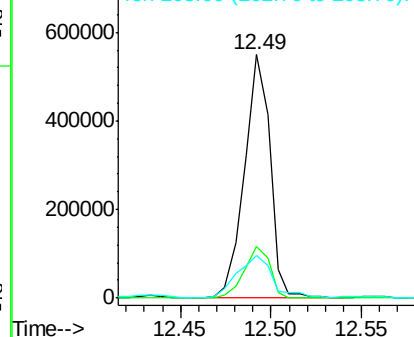
Acq: 21 Jul 2017 12:54

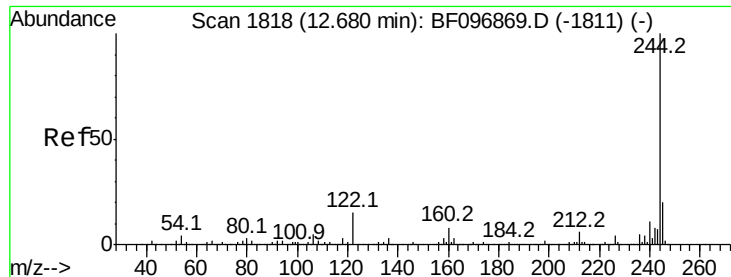
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.6	26.4
203	17.5	14.4	21.6

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





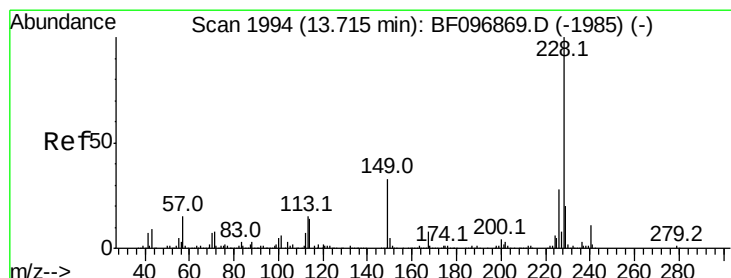
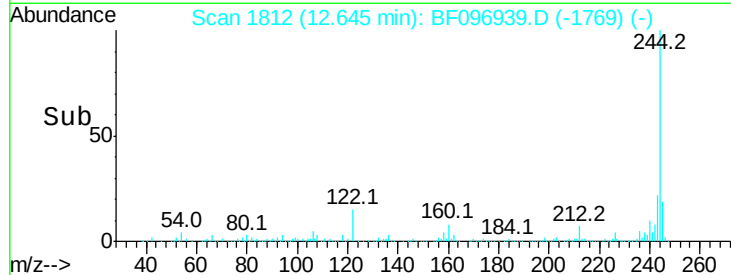
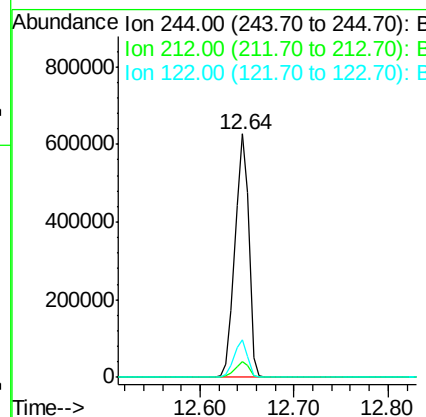
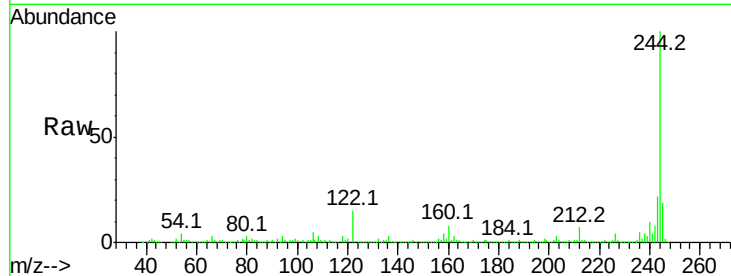
#78
 Terphenyl-d14
 Concen: 56.652 ng
 RT: 12.64 min Scan# 1812
 Delta R.T. -0.05 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	15.5	10.3	15.5

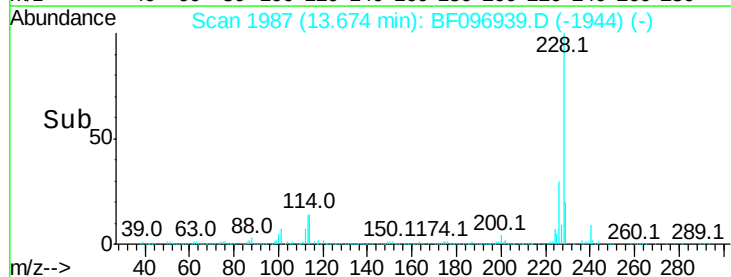
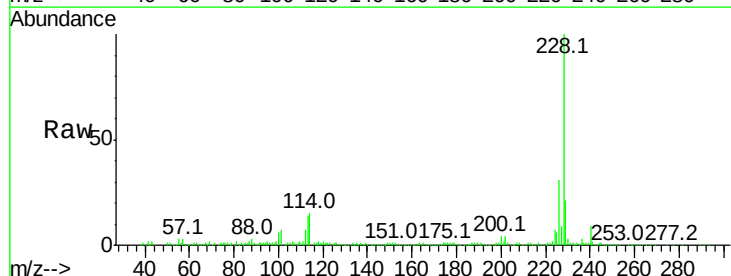
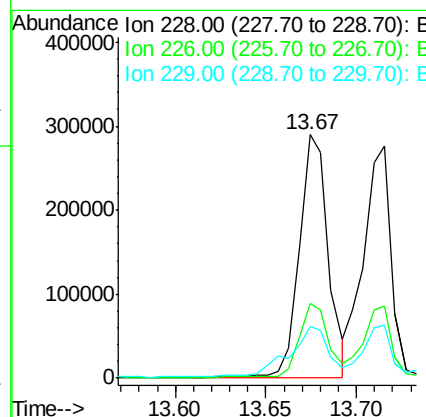
Manual Integrations
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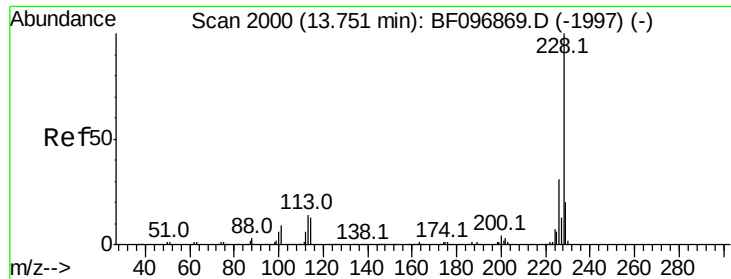
Sohil
 7/24/2017 3:05:06 PM



#80
 Benzo(a)anthracene
 Concen: 26.449 ng
 RT: 13.67 min Scan# 1987
 Delta R.T. -0.05 min
 Lab File: BF096939.D
 Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.6	33.8
229	21.1	16.3	24.5





#82

Chrysene

Concen: 24.395 ng

RT: 13.72 min Scan# 1994

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

ClientSampleId :

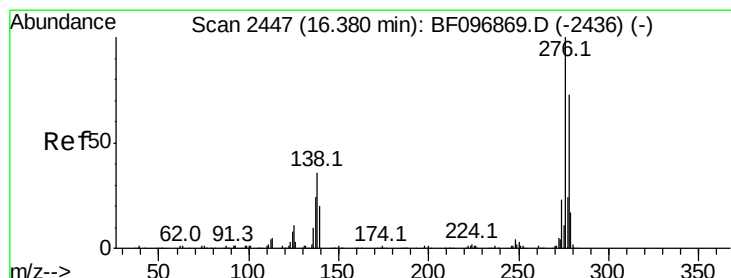
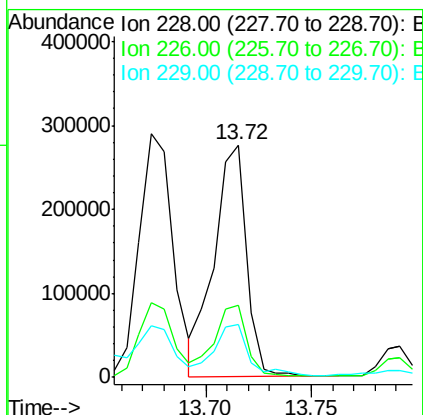
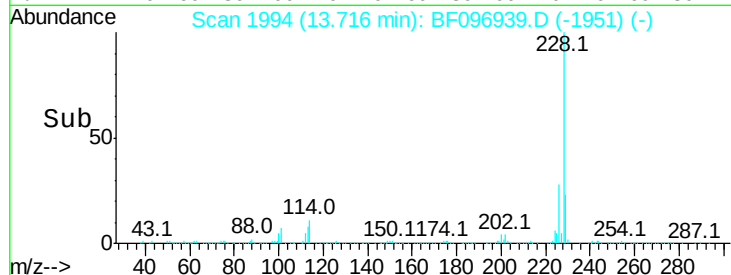
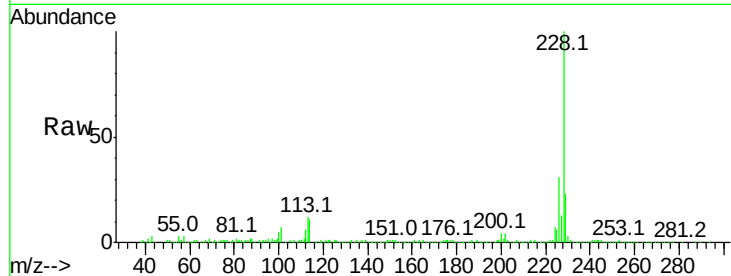
E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	22.8	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 21.436 ng

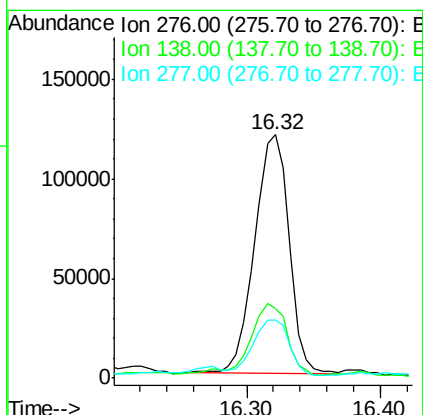
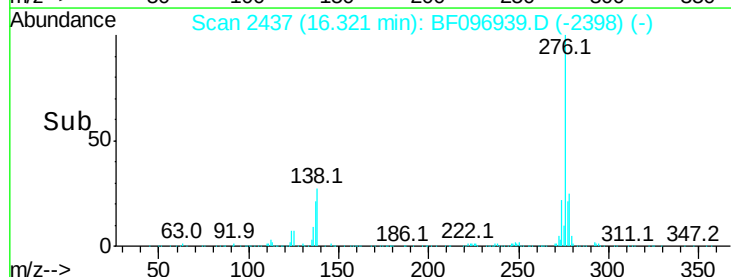
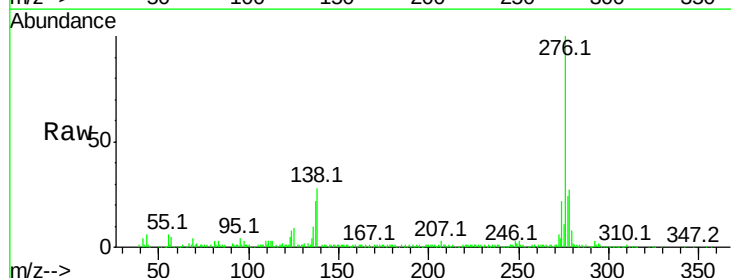
RT: 16.32 min Scan# 2437

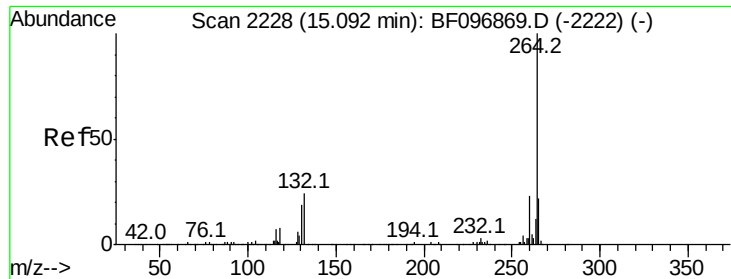
Delta R.T. -0.07 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
276	100		
138	31.6	27.8	41.6
277	23.8	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.05 min Scan# 2221

Delta R.T. -0.05 min

Lab File: BF096939.D

Acq: 21 Jul 2017 12:54

Instrument :

BNA_F

ClientSampleId :

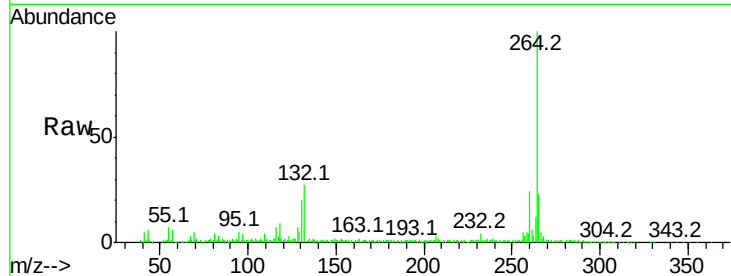
E2-O-P-6-7-WSW

Tot Ion:	264	Resp:	186816
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.5	29.3
265	23.0	17.2	25.8

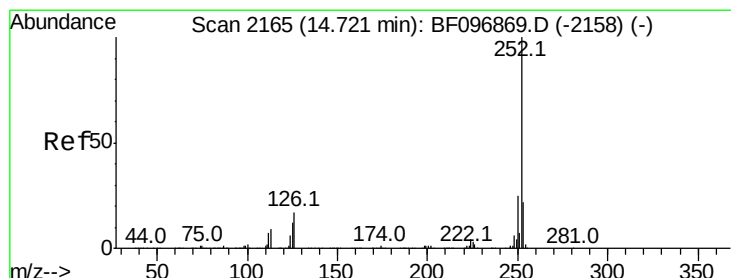
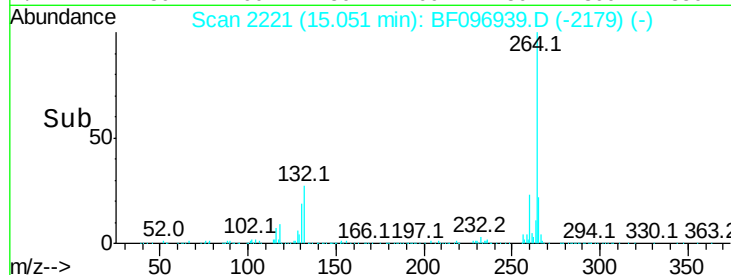
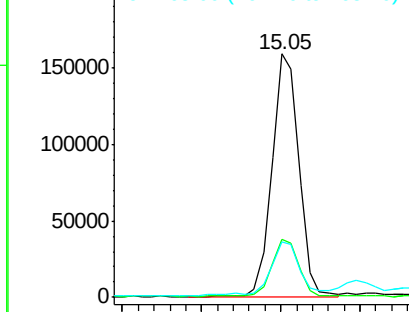
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 37.975 ng m

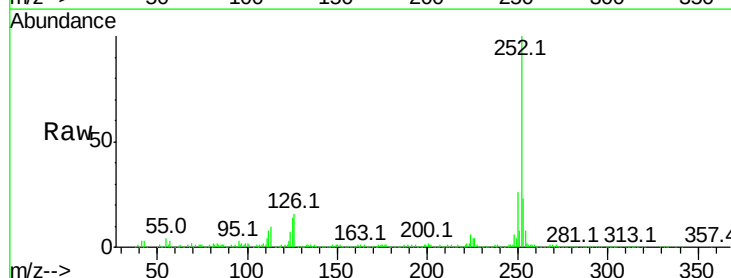
RT: 14.69 min Scan# 2159

Delta R.T. -0.04 min

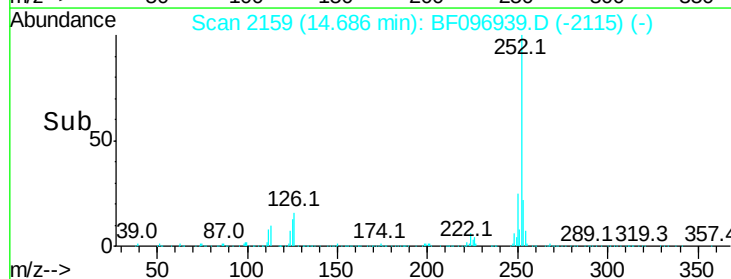
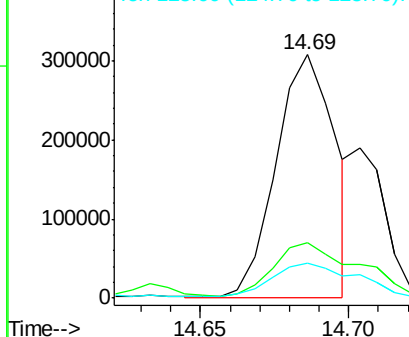
Lab File: BF096939.D

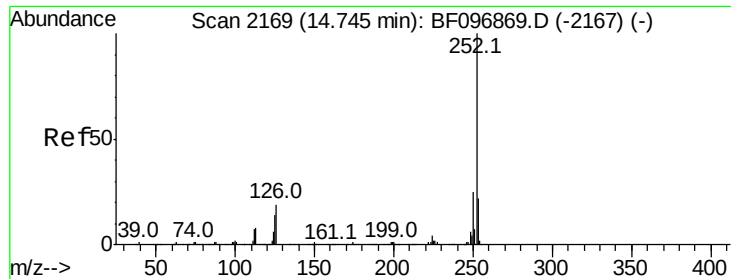
Acq: 21 Jul 2017 12:54

Tgt Ion:	252	Resp:	427867
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.1	27.1
125	14.2	9.8	14.8



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





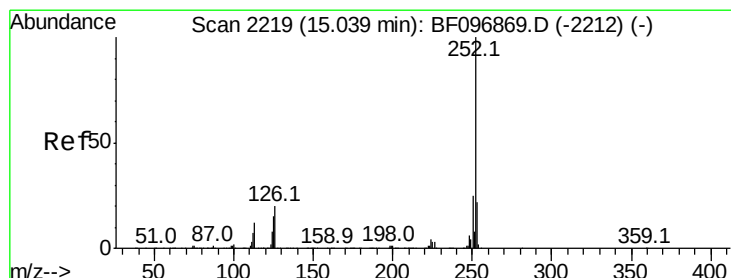
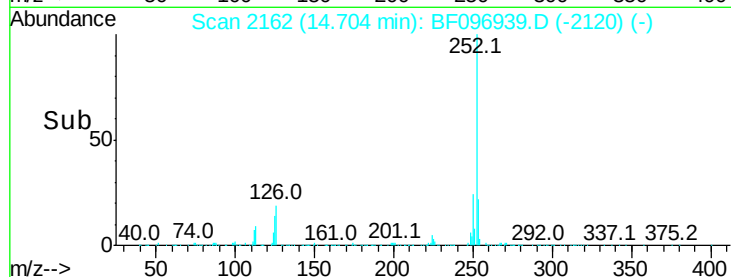
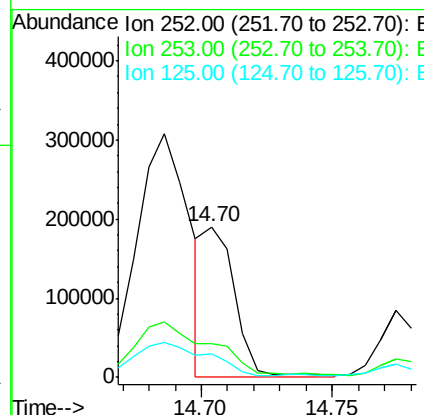
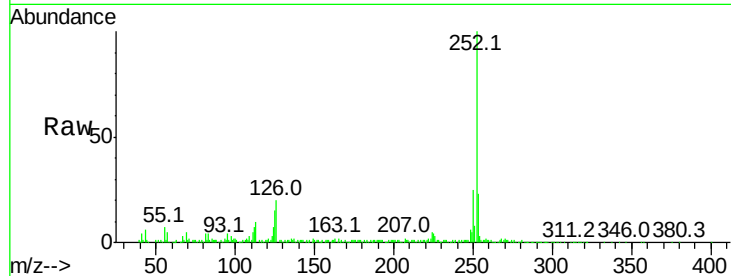
#88
Benzo(k)fluoranthene
Concen: 14.193 ng m
RT: 14.70 min Scan# 2162
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Instrument :
BNA_F
ClientSampleId :
E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	15.3	13.1	19.7

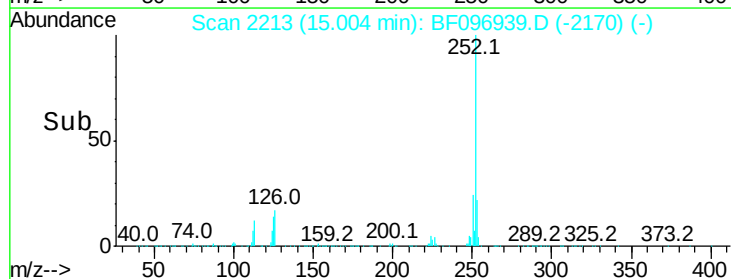
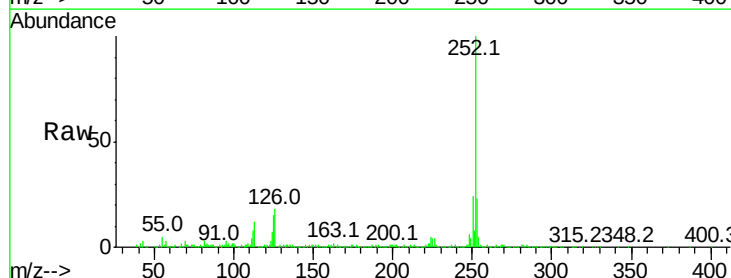
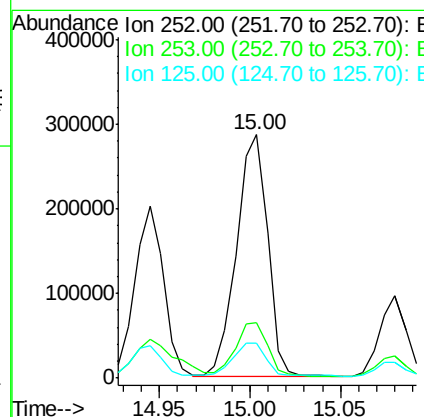
Manual Integrations
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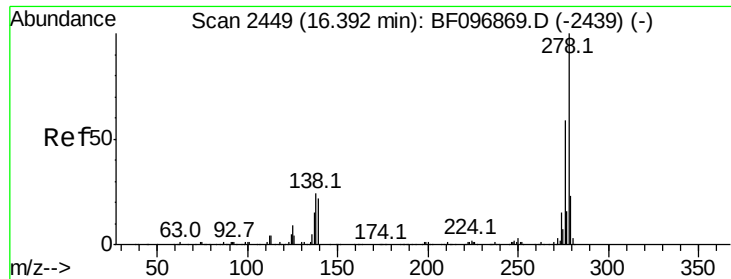
Sohil
7/24/2017 3:05:06 PM



#89
Benzo(a)pyrene
Concen: 33.275 ng
RT: 15.00 min Scan# 2213
Delta R.T. -0.05 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	14.6	11.0	16.4





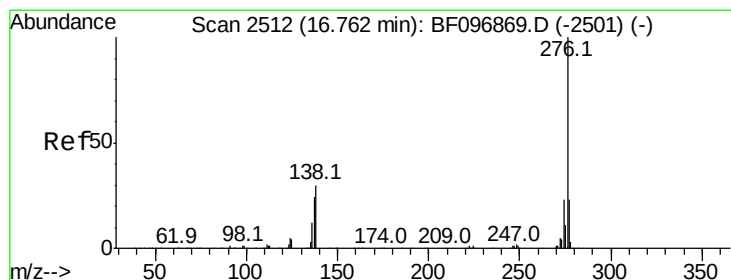
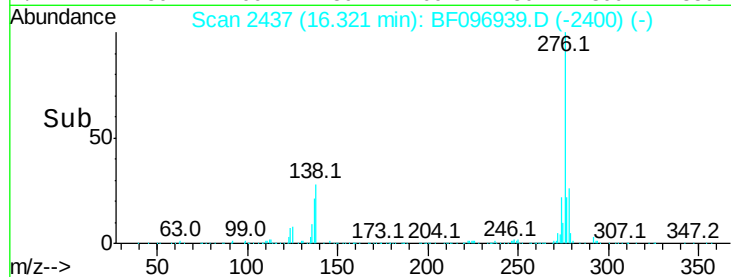
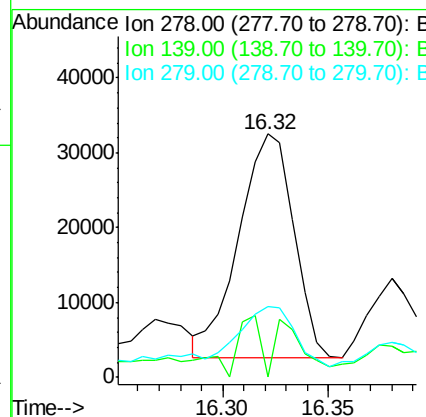
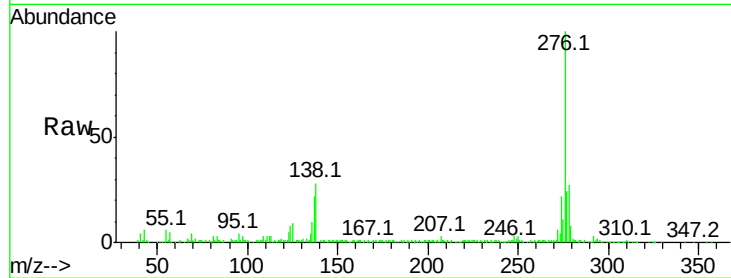
#90
Dibenzo(a,h)anthracene
Concen: 5.635 ng
RT: 16.32 min Scan# 2437
Delta R.T. -0.08 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Instrument :
BNA_F
ClientSampleId :
E2-O-P-6-7-WSW

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	28.9	19.3	28.9

Manual Integrations
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7/24/2017 3:05:06 PM



#91
Benzo(g,h,i)perylene
Concen: 20.149 ng
RT: 16.70 min Scan# 2501
Delta R.T. -0.08 min
Lab File: BF096939.D
Acq: 21 Jul 2017 12:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.7	18.6	28.0
138	29.4	25.4	38.0

