

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\
 Data File : BF110905.D
 Acq On : 20 Nov 2018 20:13
 Operator : JU/SJ
 Sample : J5981-02DL 20X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)DL

Manual Integrations
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Quant Time: Nov 21 05:34:18 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	56899	20.00	ng	0.00
21) Naphthalene-d8	8.23	136	236548	20.00	ng	0.00
39) Acenaphthene-d10	9.99	164	92549	20.00	ng	0.00
64) Phenanthrene-d10	11.48	188	155288	20.00	ng	0.00
76) Chrysene-d12	14.14	240	121192	20.00	ng	0.00
87) Perylene-d12	15.67	264	83327	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	15819	4.52	ng	0.02
7) Phenol-d6	6.59	99	21110	4.71	ng	0.02
23) Nitrobenzene-d5	7.53	82	11577	2.82	ng	0.01
42) 2,4,6-Tribromophenol	10.79	330	3401	3.65	ng	0.00
45) 2-Fluorobiphenyl	9.30	172	21511	3.32	ng	0.00
79) Terphenyl-d14	13.06	244	19504	3.01	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.25	128	82278	7.409	ng	98
49) Acenaphthylene	9.85	152	68583	7.656	ng	98
52) Acenaphthene	10.02	154	21305	3.764	ng	97
55) Dibenzofuran	10.19	168	40892	4.937	ng	98
58) Fluorene	10.54	166	69632	10.946	ng	99
71) Phenanthrene	11.50	178	424521	51.027	ng	100
72) Anthracene	11.56	178	177743	21.179	ng	98
73) Carbazole	11.72	167	25611	3.178	ng	99
75) Fluoranthene	12.70	202	596798	71.551	ng	99
78) Pyrene	12.93	202	467459	50.095	ng	98
81) Benzo(a)anthracene	14.13	228	198161	27.356	ng	96
83) Chrysene	14.16	228	154012	22.317	ng	98
86) Indeno(1,2,3-cd)pyrene	17.26	276	58040	11.720	ng	96
88) Benzo(b)fluoranthene	15.22	252	157694m	31.634	ng	
89) Benzo(k)fluoranthene	15.24	252	47608m	9.665	ng	
90) Benzo(a)pyrene	15.60	252	105598	23.315	ng	98
91) Dibenzo(a,h)anthracene	17.26	278	14939	3.898	ng	# 90
92) Benzo(g,h,i)perylene	17.74	276	48957	12.874	ng	95

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

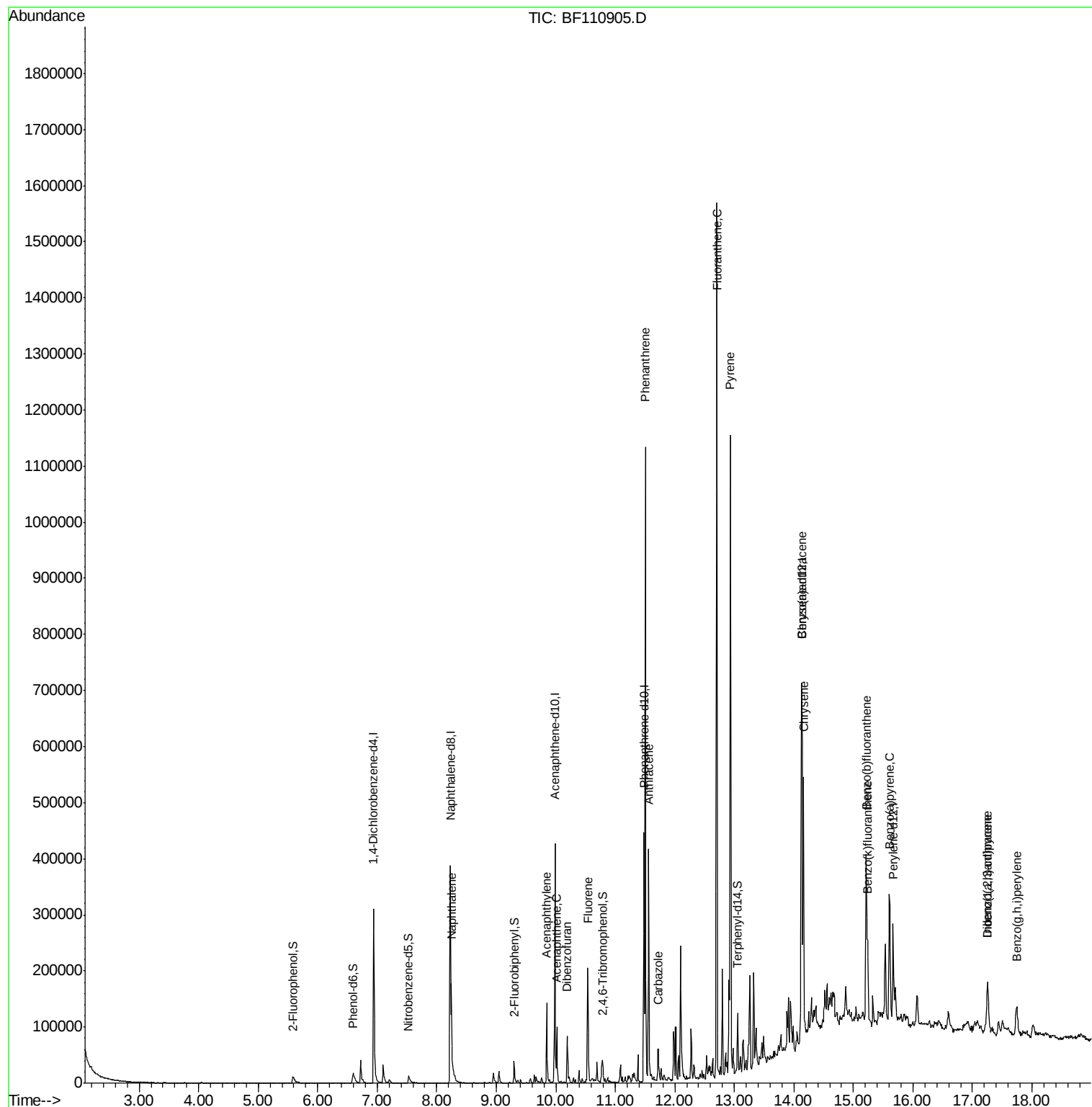
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\
Data File : BF110905.D
Acq On : 20 Nov 2018 20:13
Operator : JU/SJ
Sample : J5981-02DL 20X
Misc :
ALS Vial : 21 Sample Multiplier: 1

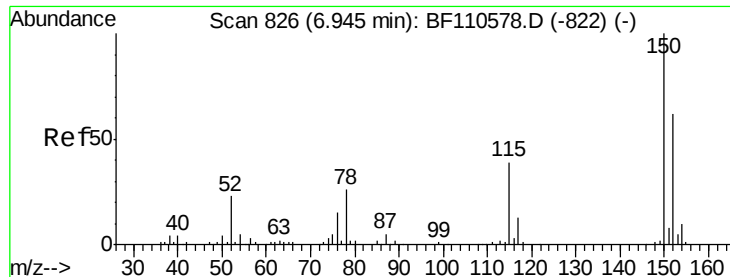
Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

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Quant Time: Nov 21 05:34:18 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

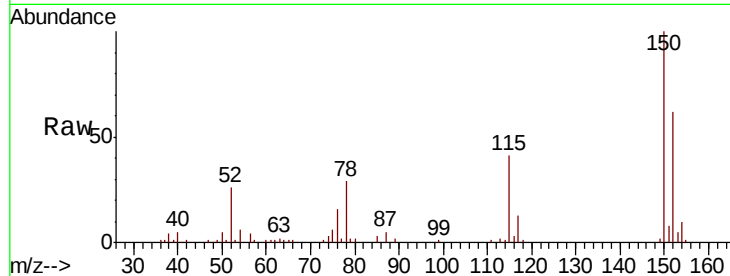
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	122.7	184.1
115	66.3	49.1	73.7

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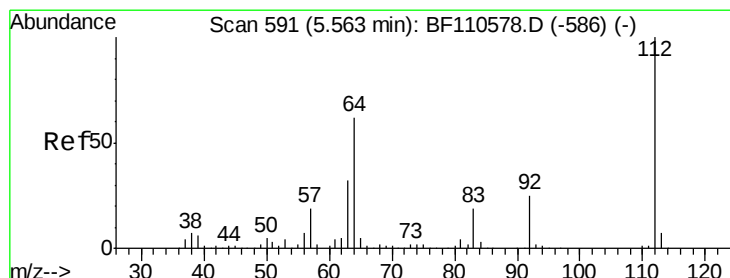
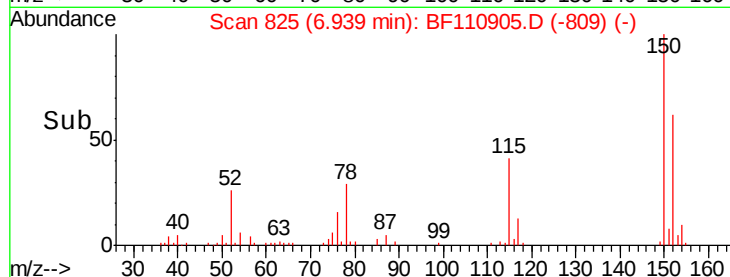
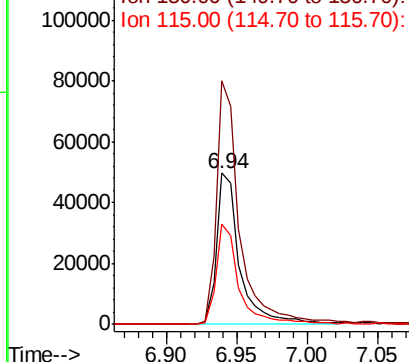


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

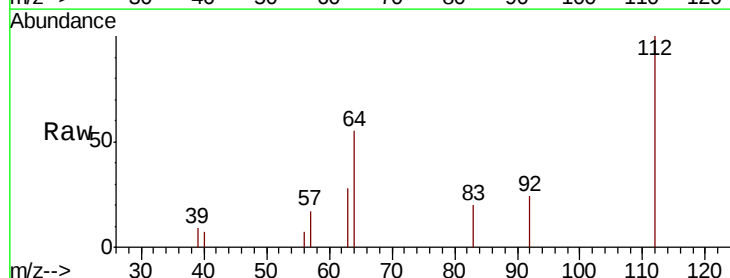
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 4.516 ng
RT: 5.59 min Scan# 595
Delta R.T. 0.02 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.1	66.1
63	28.4	23.7	35.5

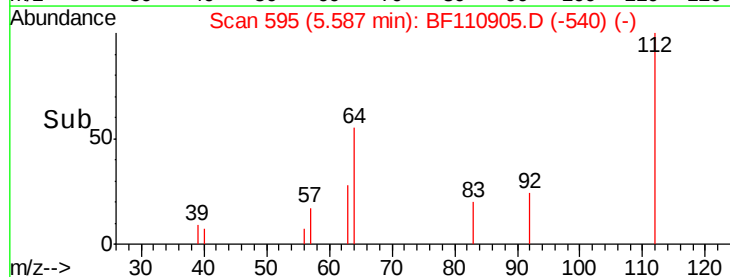
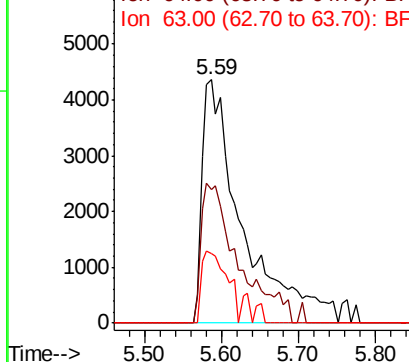


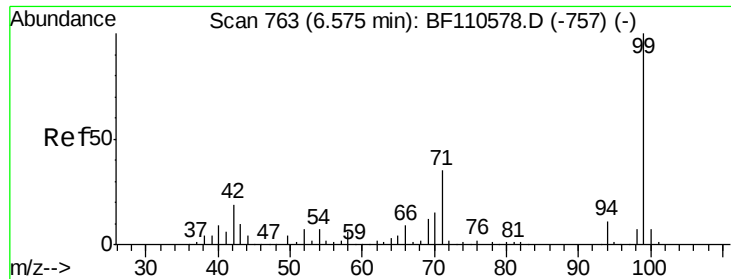
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.713 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.02 min

Lab File: BF110905.D

Acq: 20 Nov 2018 20:13

Instrument :

BNA_F

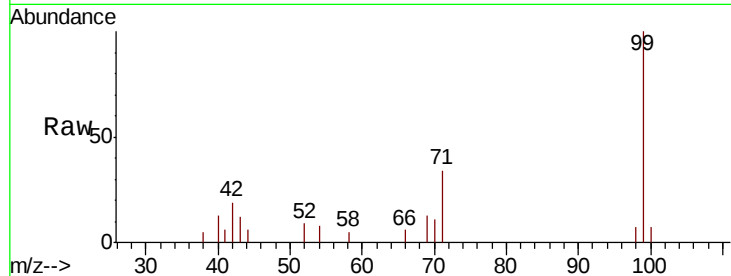
ClientSampleId :

DTW-02(11-13)DL

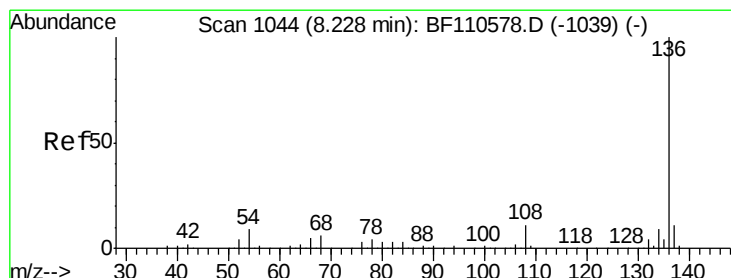
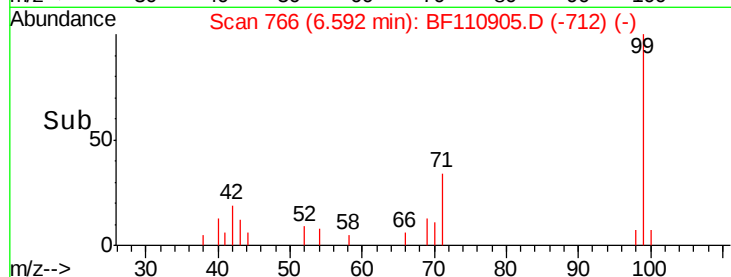
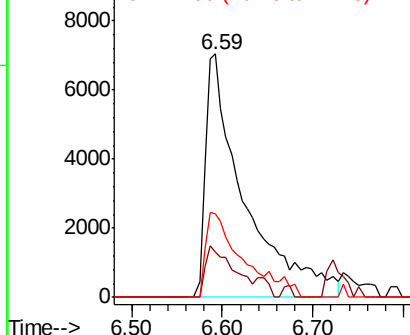
Tot Ion:	99	Resp:	21110
Ion Ratio	Lower	Upper	
99	100		
42	18.7	15.8	23.6
71	34.3	28.0	42.0

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.23 min Scan# 1044

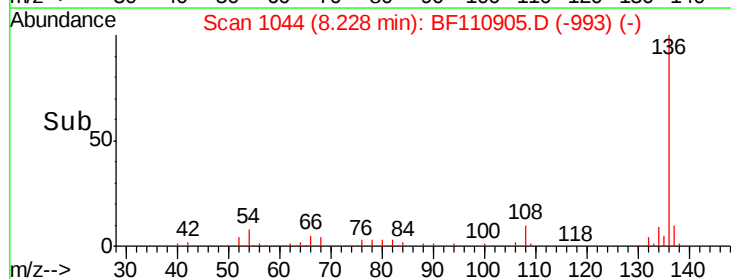
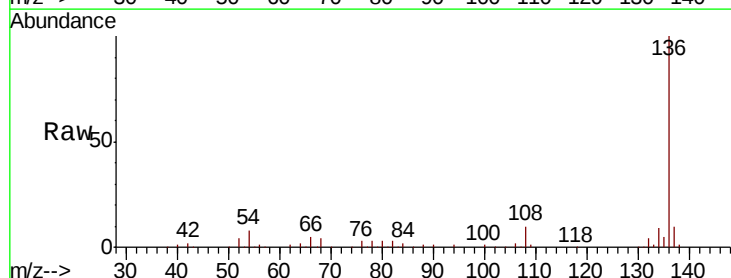
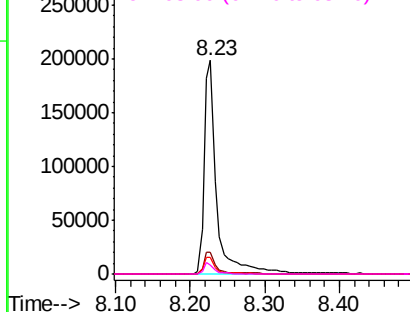
Delta R.T. 0.00 min

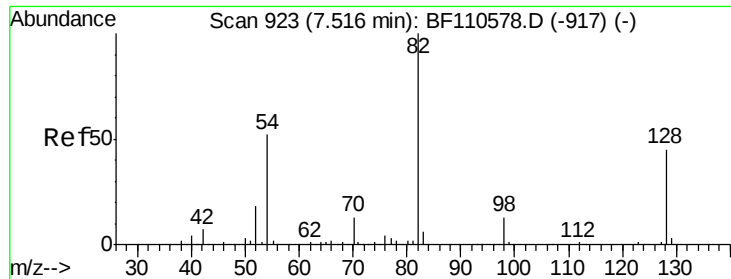
Lab File: BF110905.D

Acq: 20 Nov 2018 20:13

Tgt Ion:	136	Resp:	236548
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.8	13.2
54	7.6	5.4	8.2
68	4.2	4.2	6.2

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): BF1
Ion 68.00 (67.70 to 68.70): BF1





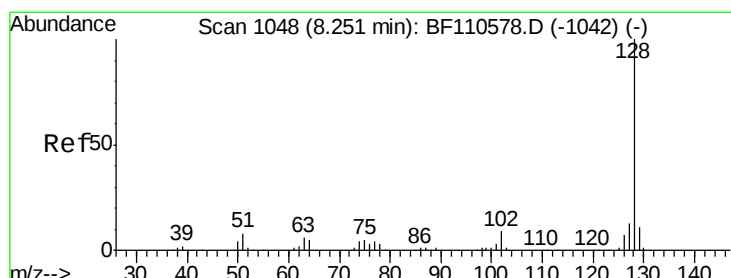
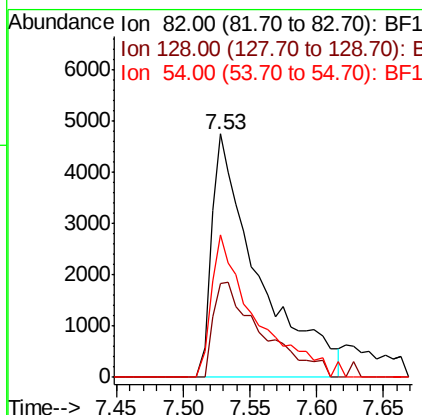
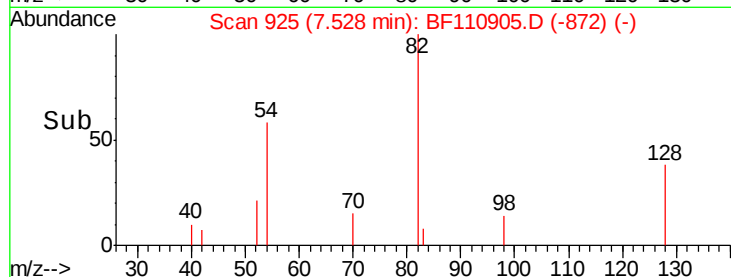
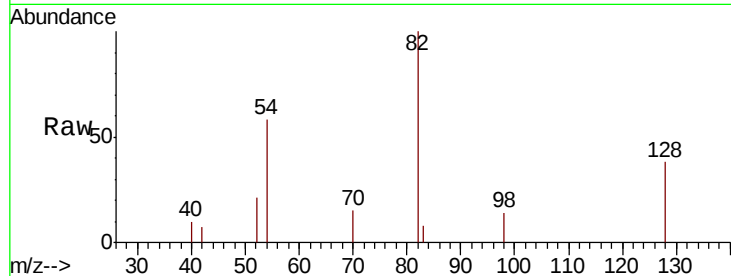
#23
 Nitrobenzene-d5
 Concen: 2.819 ng
 RT: 7.53 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.5	34.2	51.2
54	58.4	38.6	58.0

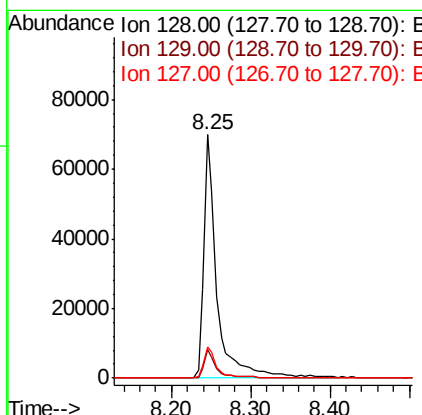
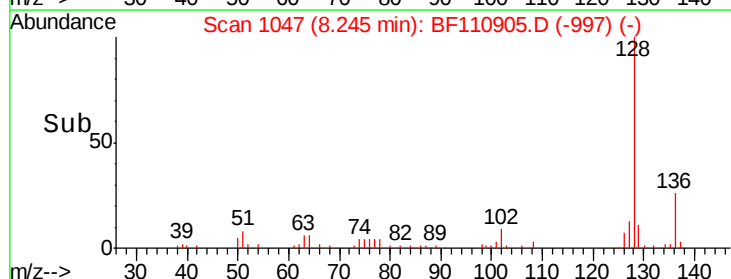
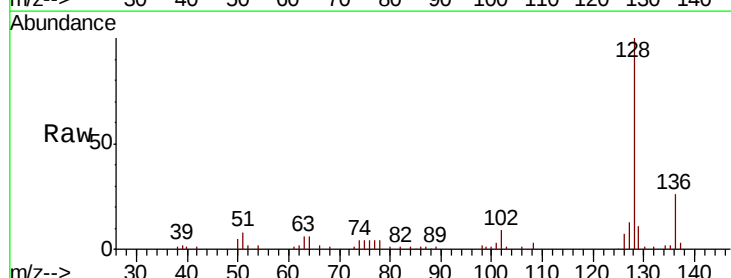
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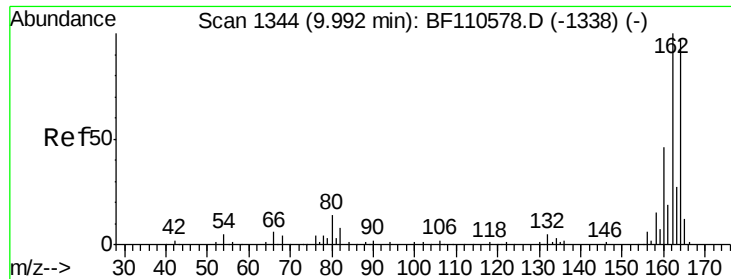
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#31
 Naphthalene
 Concen: 7.409 ng
 RT: 8.25 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	12.8	10.8	16.2





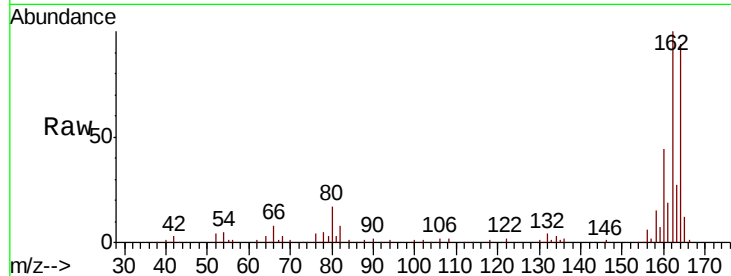
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1343
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

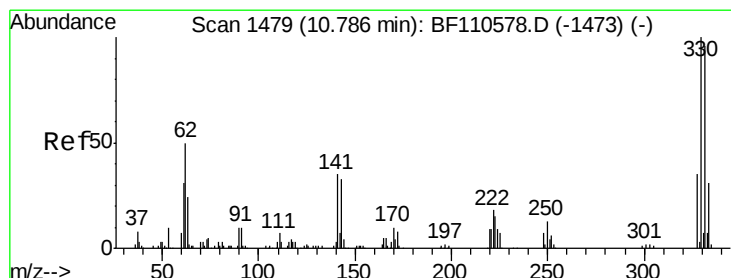
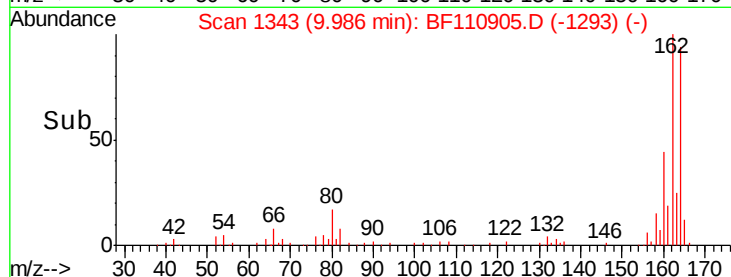
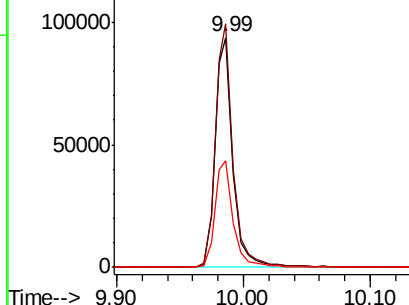
Tot Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.0	124.6
160	46.6	37.0	55.6

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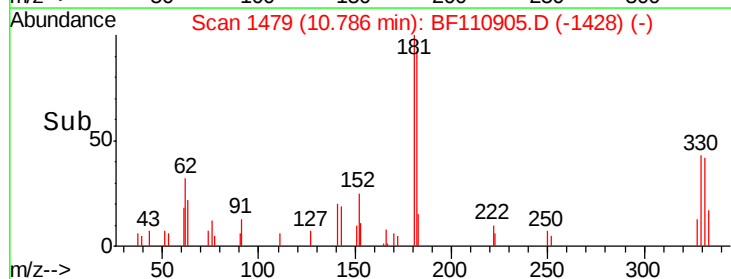
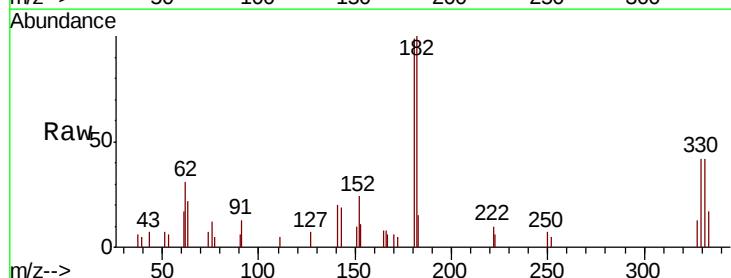
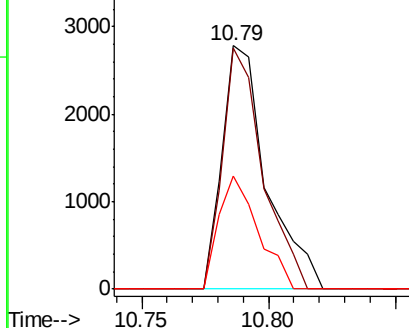
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

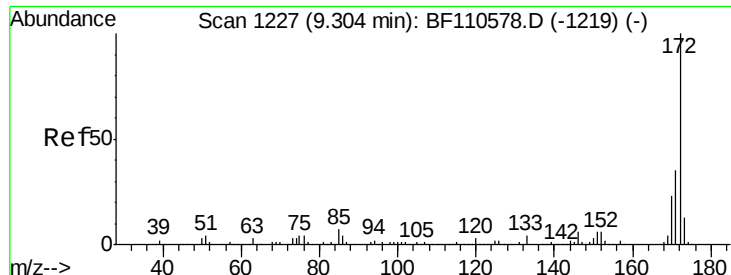


#42
2,4,6-Tribromophenol
Concen: 3.647 ng
RT: 10.79 min Scan# 1479
Delta R.T. 0.00 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
330	100		
332	89.7	77.1	115.7
141	41.1	27.0	40.4#

Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





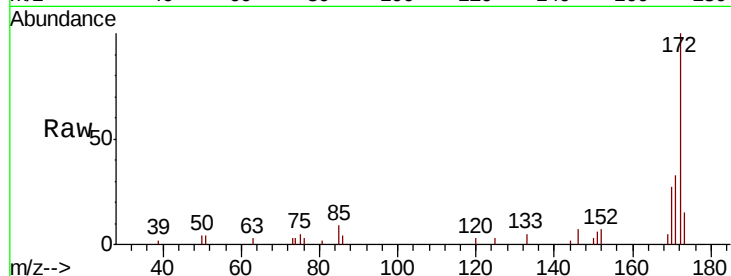
#45
2-Fluorobiphenyl
Concen: 3.319 ng
RT: 9.30 min Scan# 1226
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.2	28.6	43.0
170	26.8	19.7	29.5

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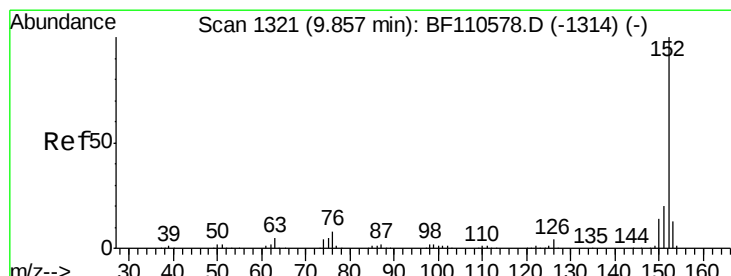
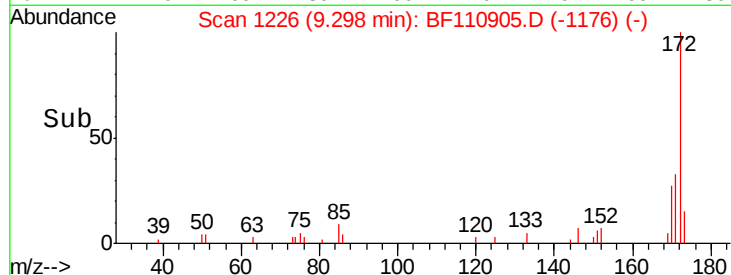
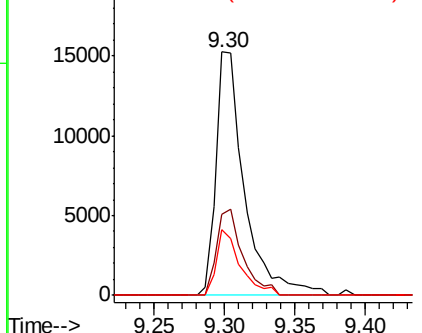


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 7.656 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

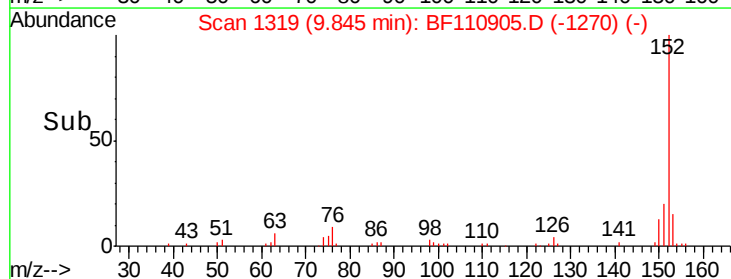
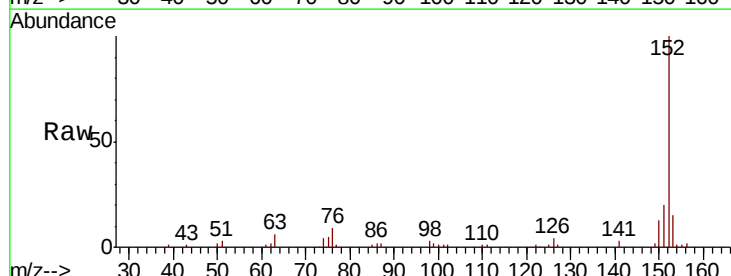
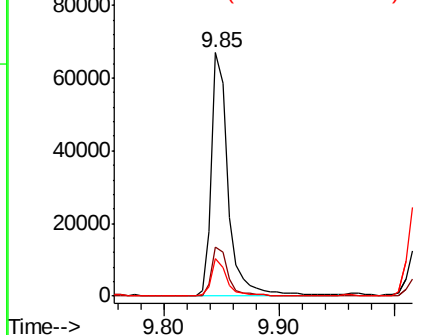
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	15.3	10.4	15.6

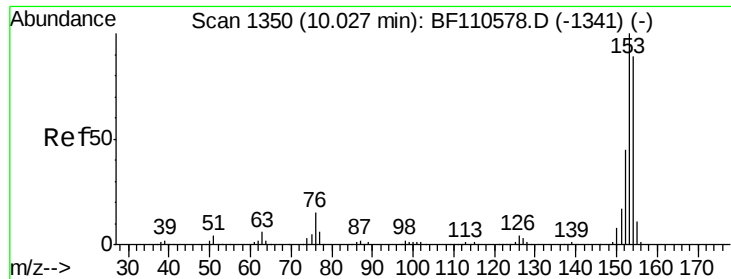
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





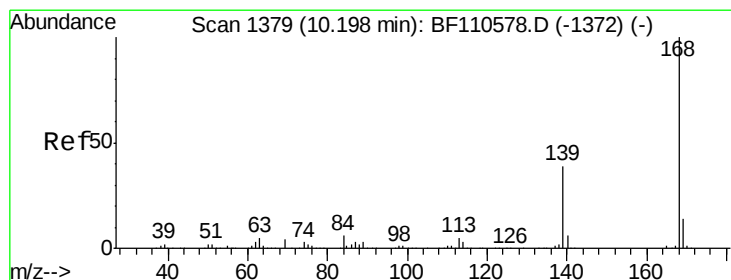
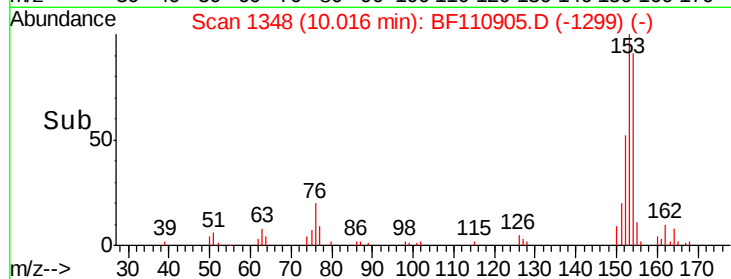
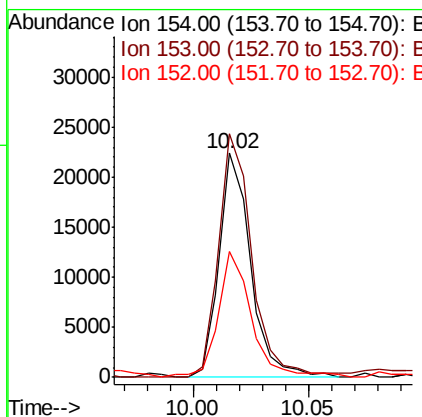
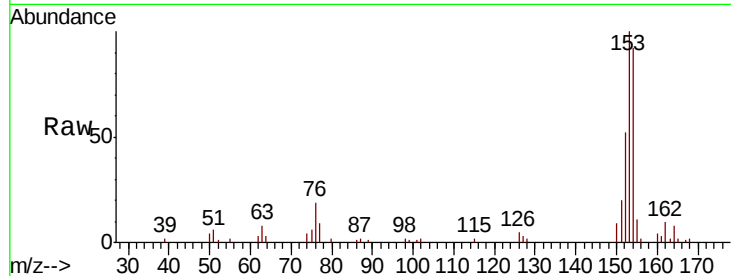
#52
Acenaphthene
Concen: 3.764 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	108.6	90.1	135.1
152	56.1	43.4	65.2

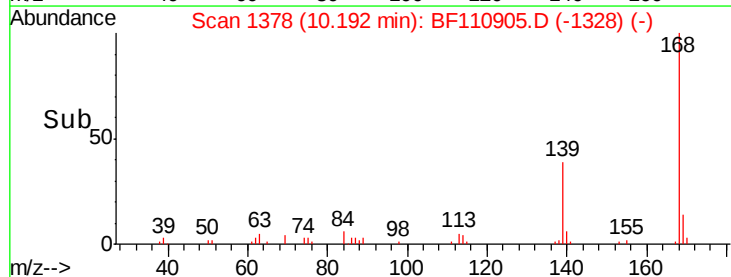
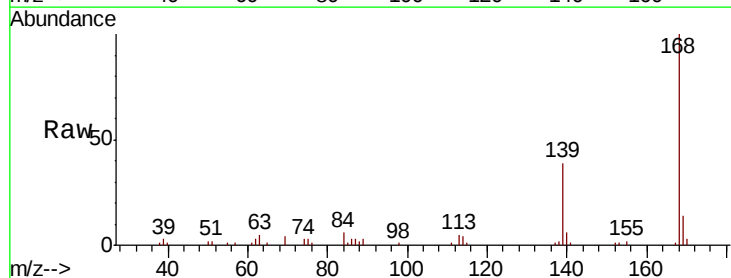
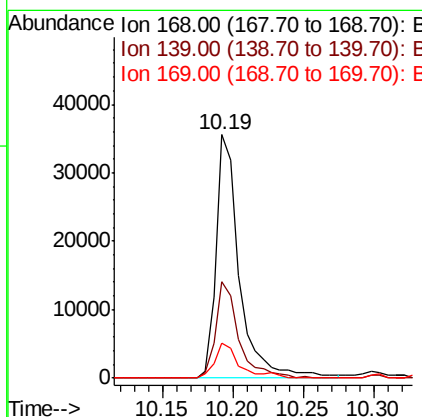
Manual Integrations
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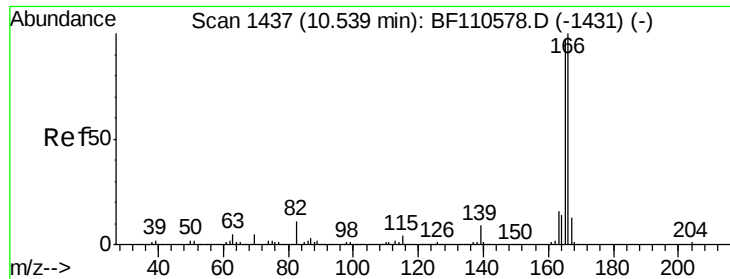
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#55
Dibenzofuran
Concen: 4.937 ng
RT: 10.19 min Scan# 1378
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.4	33.0	49.6
169	14.2	11.3	16.9





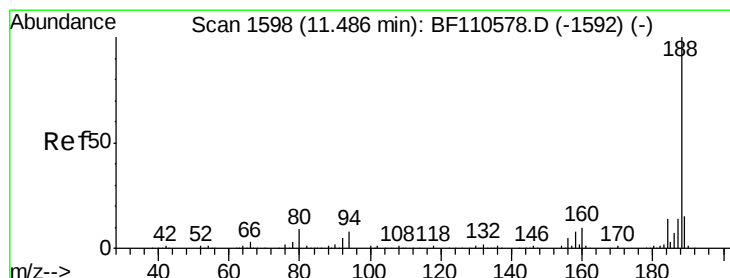
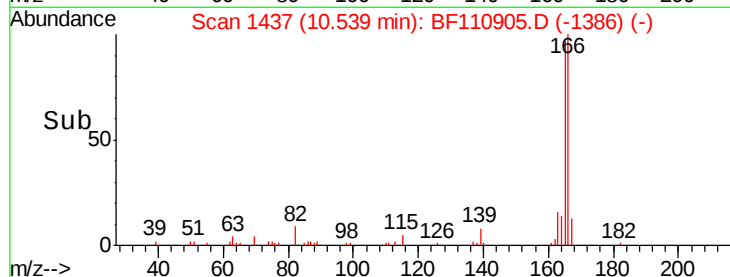
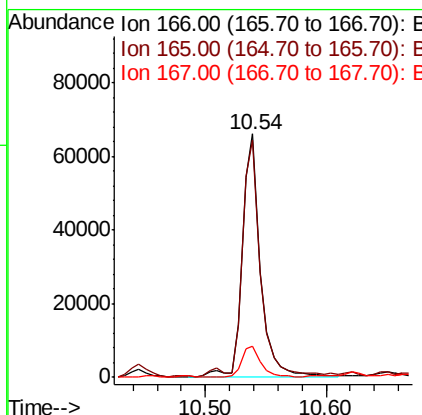
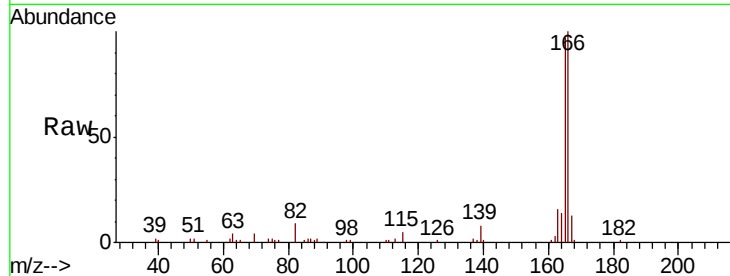
#58
 Fluorene
 Concen: 10.946 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. 0.00 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.6	117.8
167	12.9	10.8	16.2

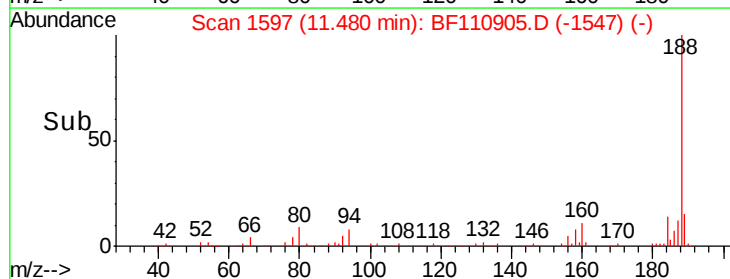
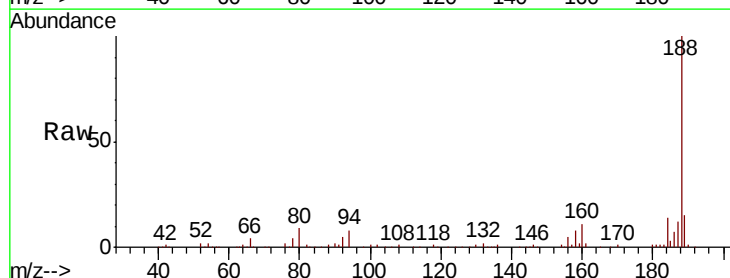
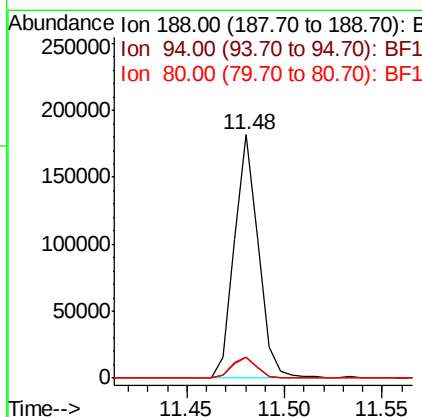
Manual Integrations
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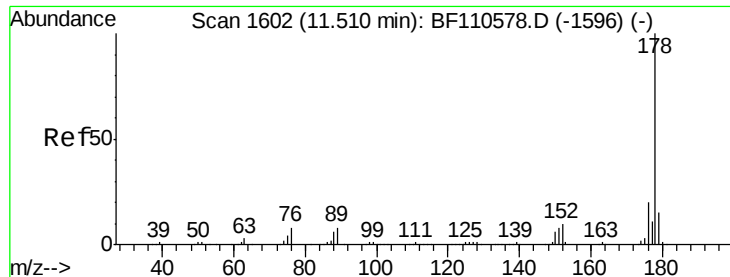
Sohil
 11/21/2018 3:18:09 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.4	7.2	10.8
80	8.8	7.9	11.9





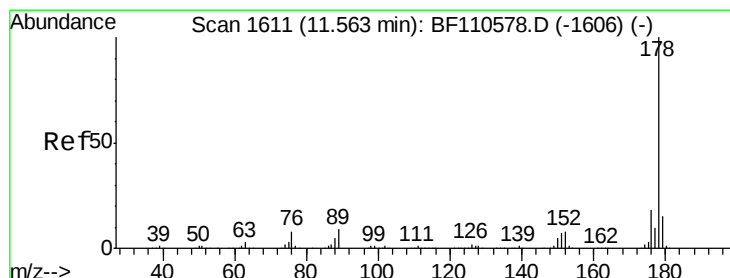
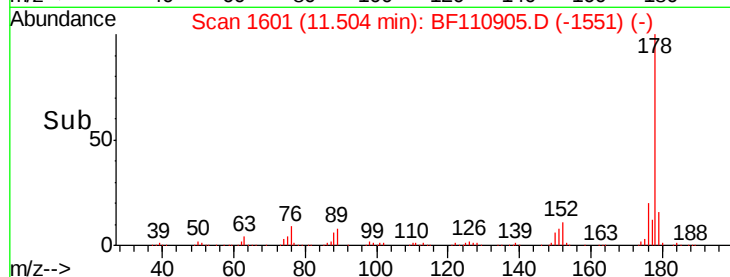
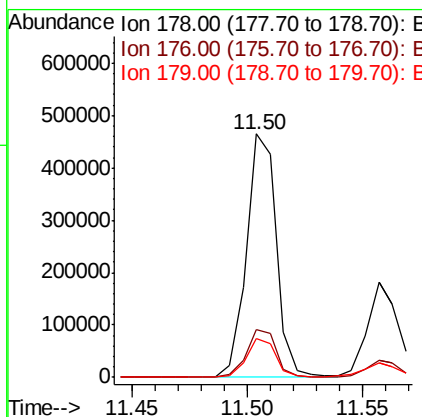
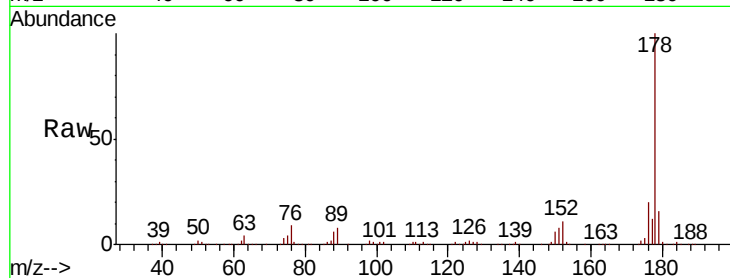
#71
Phenanthrene
Concen: 51.027 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.7	12.5	18.7

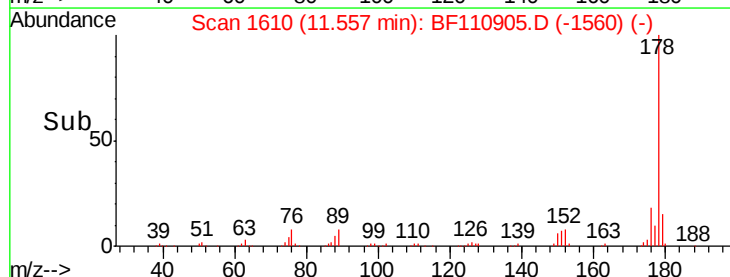
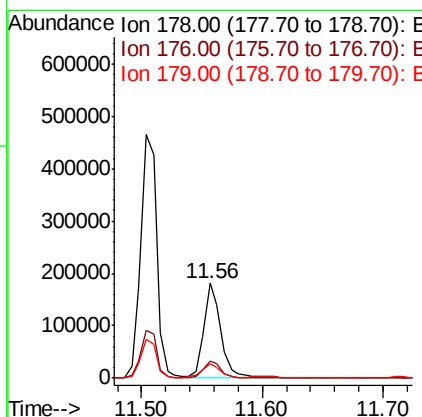
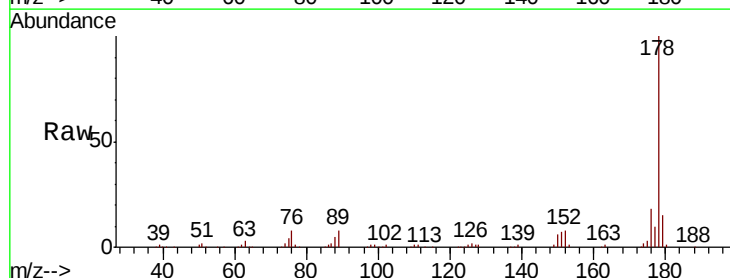
Manual Integrations
APPROVED

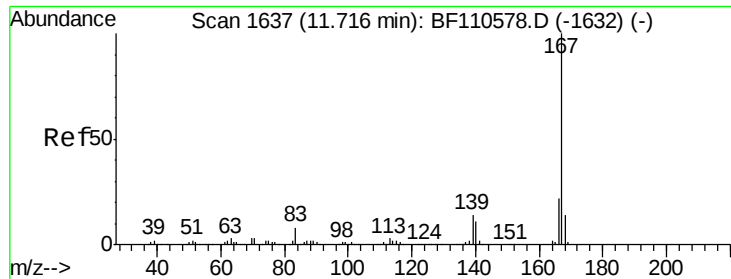
Sohil
11/21/2018 3:18:09 PM



#72
Anthracene
Concen: 21.179 ng
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	15.0	12.6	18.8





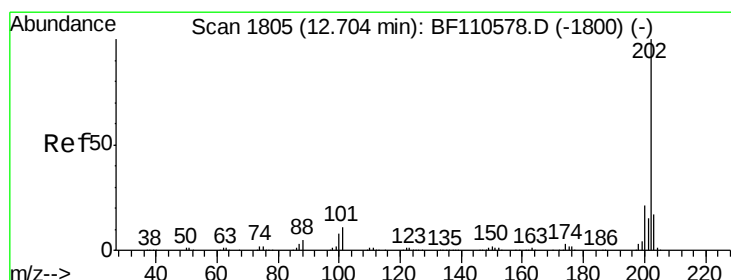
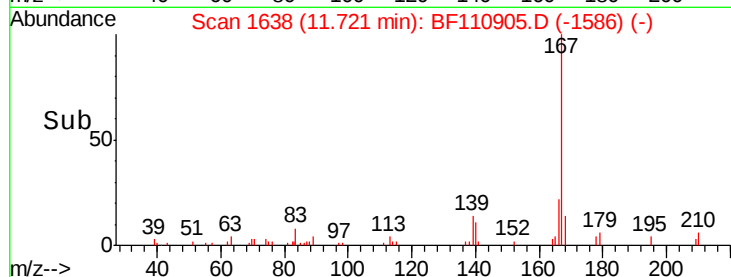
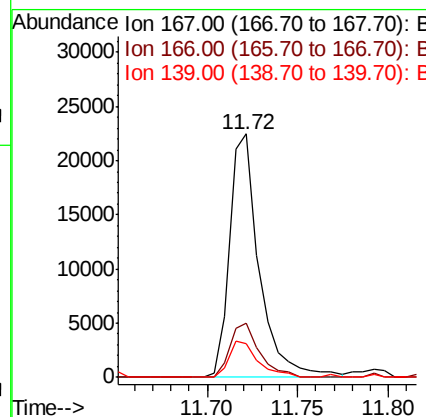
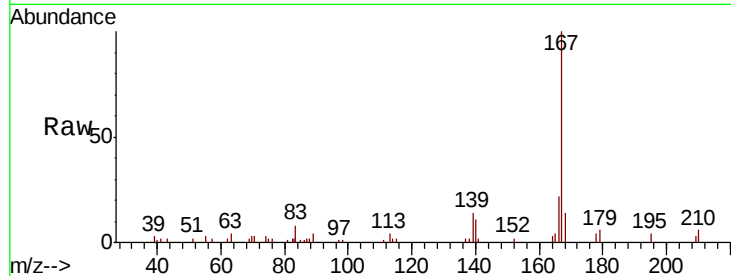
#73
 Carbazole
 Concen: 3.178 ng
 RT: 11.72 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.4	26.0
139	13.6	10.9	16.3

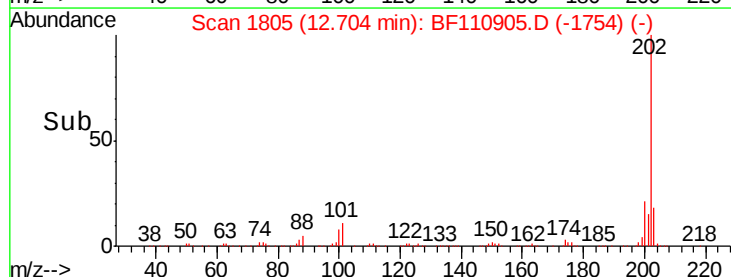
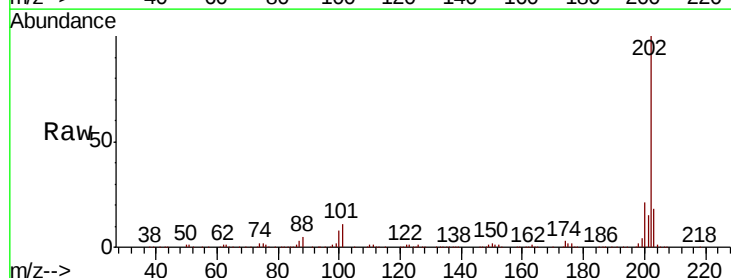
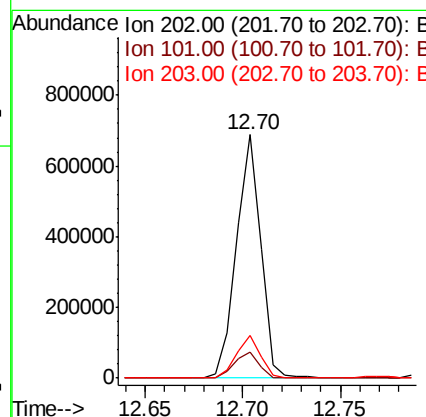
Manual Integrations
 APPROVED

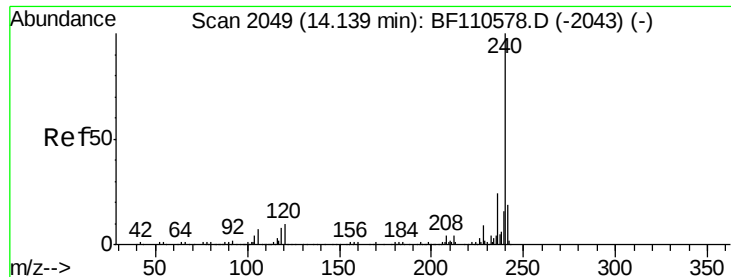
Sohil
 11/21/2018 3:18:09 PM



#75
 Fluoranthene
 Concen: 71.551 ng
 RT: 12.70 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.4
203	17.6	0.0	37.7





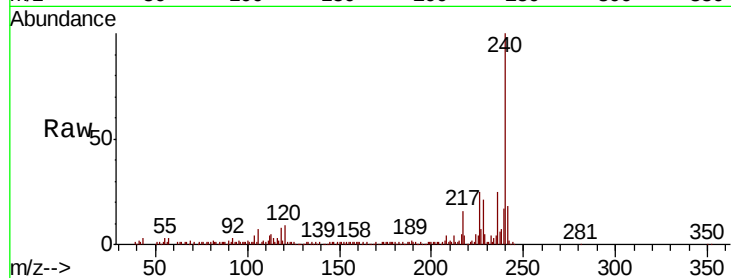
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.14 min Scan# 2049
Delta R.T. 0.00 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleID :
DTW-02(11-13)DL

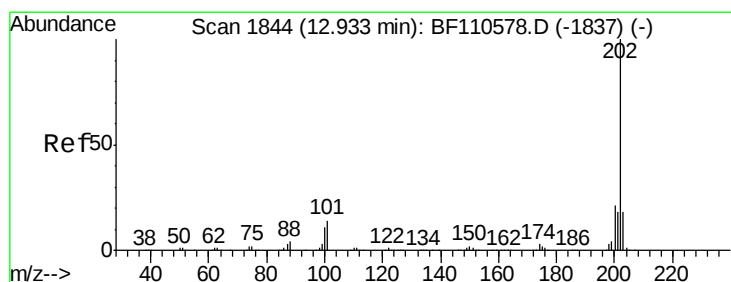
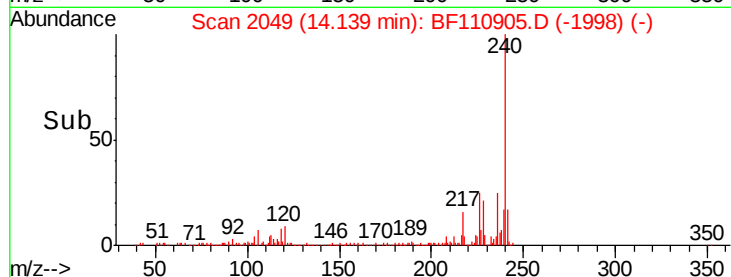
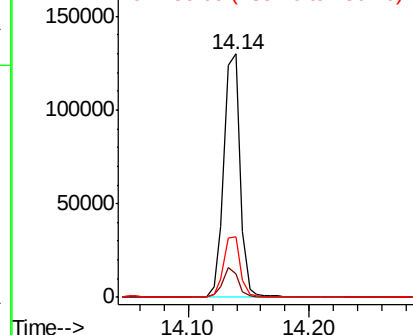
Tot Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.3	12.5
236	24.7	21.2	31.8

Manual Integrations
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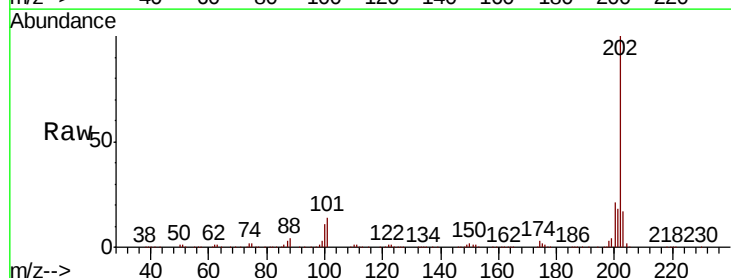


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

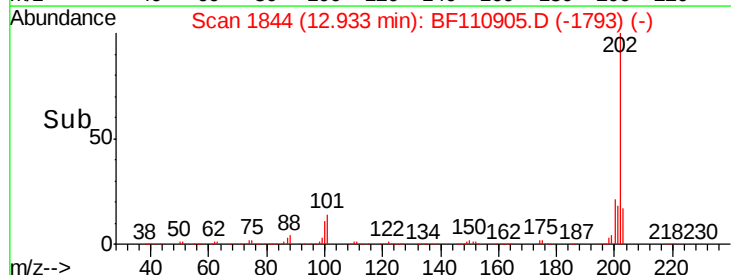
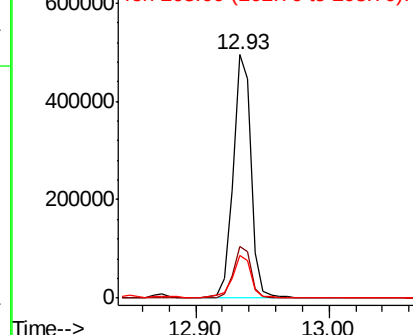


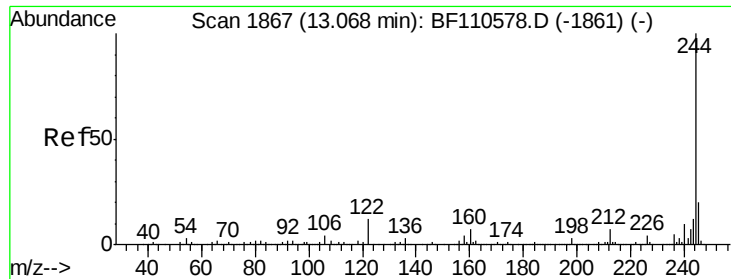
#78
Pyrene
Concen: 50.095 ng
RT: 12.93 min Scan# 1844
Delta R.T. 0.00 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.8	26.6
203	17.3	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





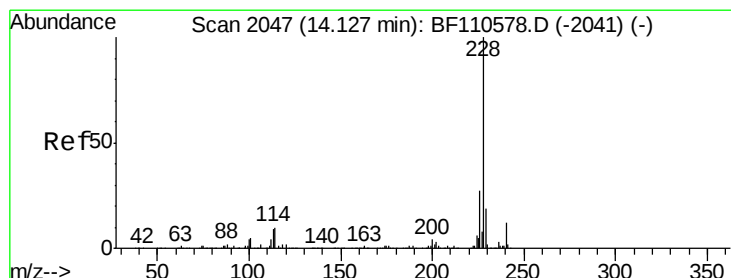
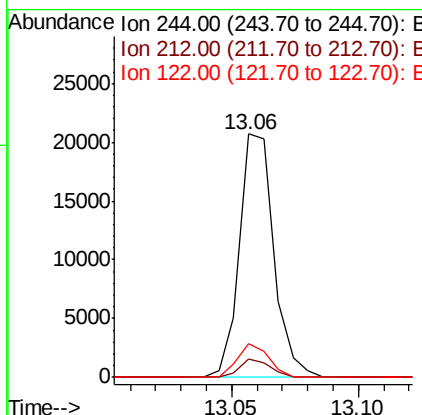
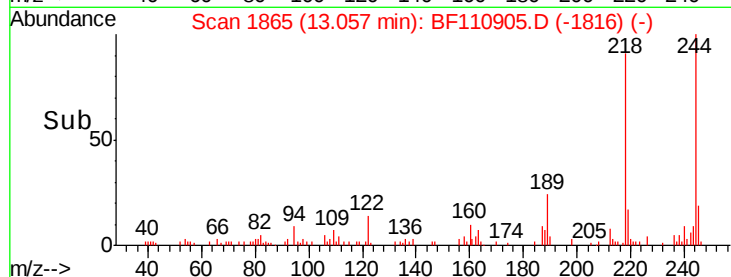
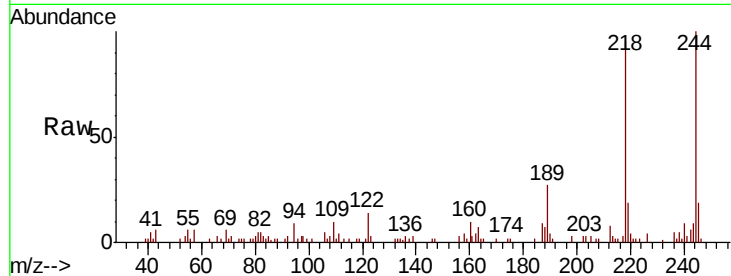
#79
 Terphenyl-d14
 Concen: 3.014 ng
 RT: 13.06 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.8
122	13.6	8.7	13.1

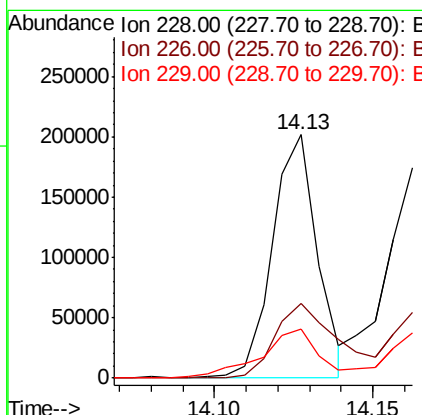
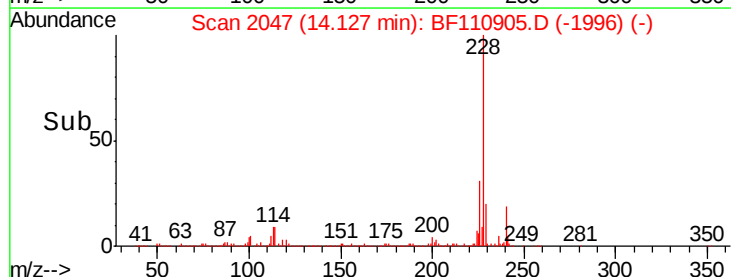
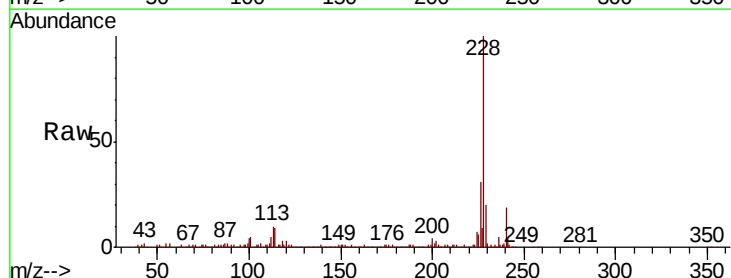
Manual Integrations
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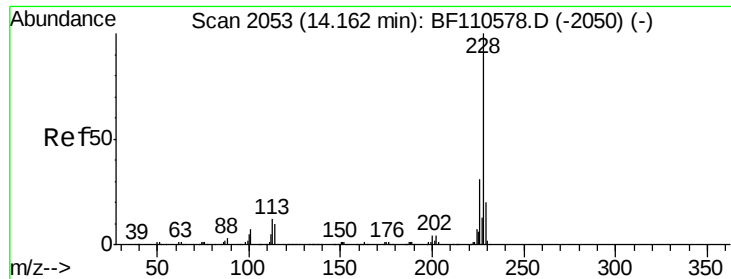
Sohil
 11/21/2018 3:18:09 PM



#81
 Benzo(a)anthracene
 Concen: 27.356 ng
 RT: 14.13 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: BF110905.D
 Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.1	33.1
229	20.0	15.6	23.4





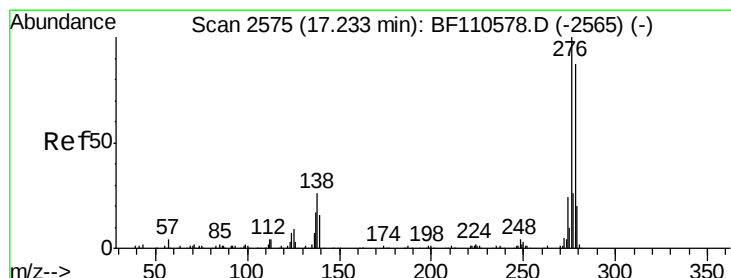
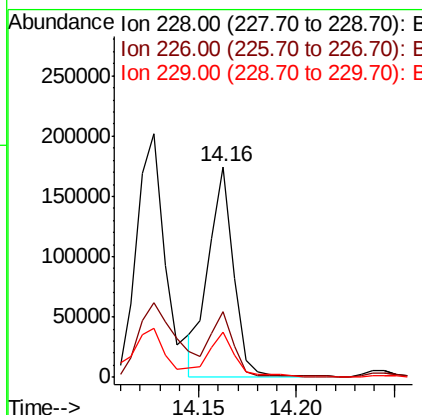
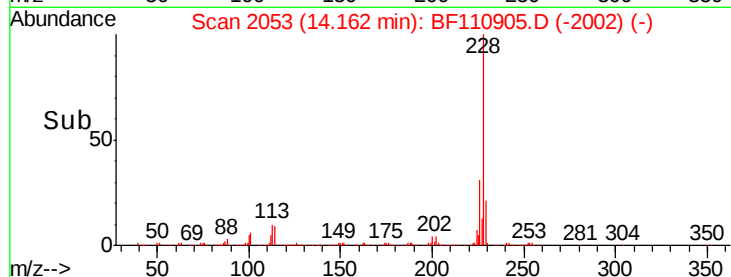
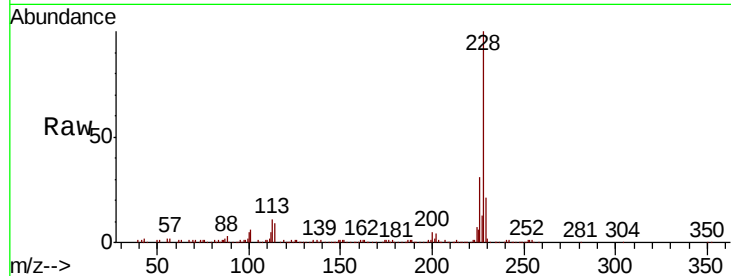
#83
Chrysene
Concen: 22.317 ng
RT: 14.16 min Scan# 2053
Delta R.T. 0.00 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.7	37.1
229	21.5	15.9	23.9

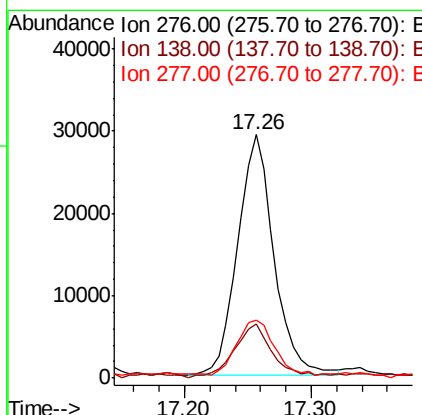
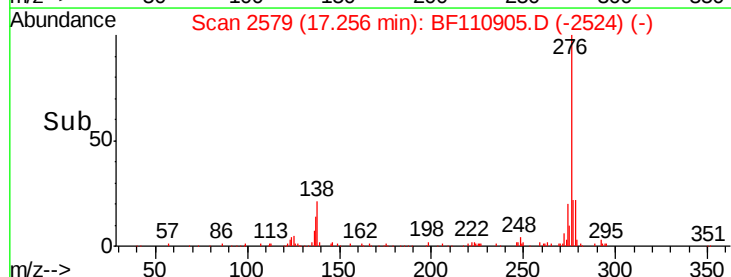
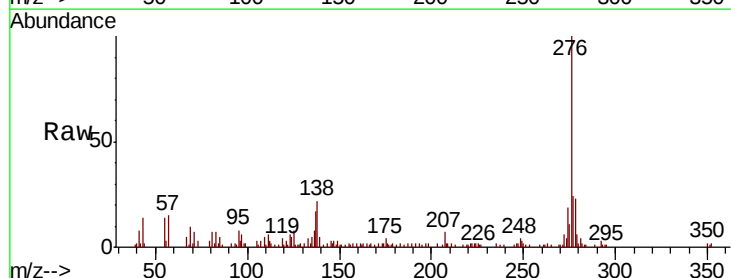
Manual Integrations
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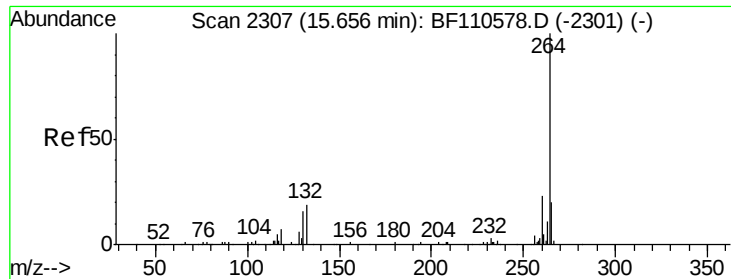
Sohil
11/21/2018 3:18:09 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 11.720 ng
RT: 17.26 min Scan# 2579
Delta R.T. 0.02 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.6	18.5	27.7
277	22.6	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2309

Delta R.T. 0.01 min

Lab File: BF110905.D

Acq: 20 Nov 2018 20:13

Instrument :

BNA_F

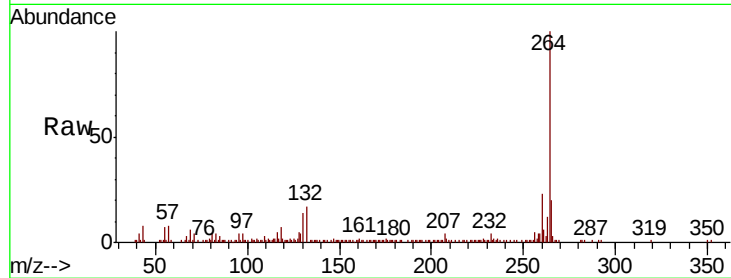
ClientSampleId :

DTW-02(11-13)DL

Tot Ion:	264	Resp:	83327
Ion Ratio	Lower	Upper	
264	100		
260	22.8	18.7	28.1
265	20.2	16.7	25.1

Manual Integrations
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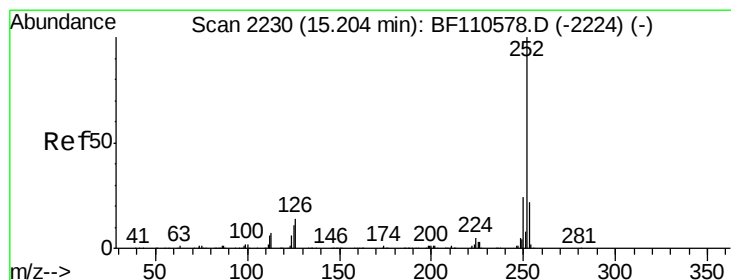
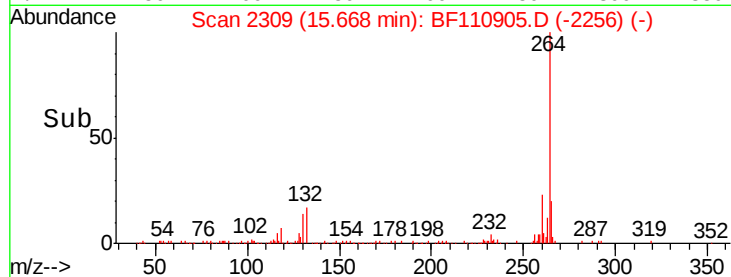
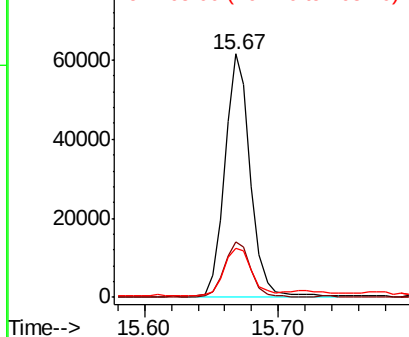


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 31.634 ng m

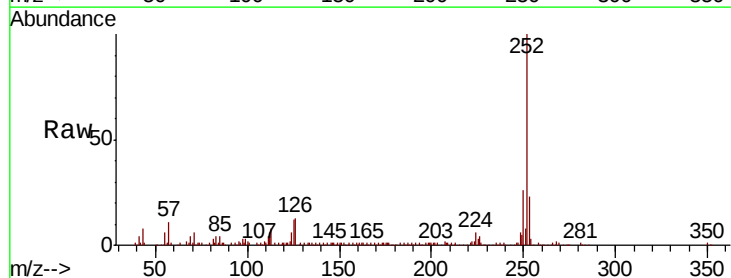
RT: 15.22 min Scan# 2232

Delta R.T. 0.01 min

Lab File: BF110905.D

Acq: 20 Nov 2018 20:13

Tgt Ion:	252	Resp:	157694
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.2	25.8
125	12.3	8.2	12.4

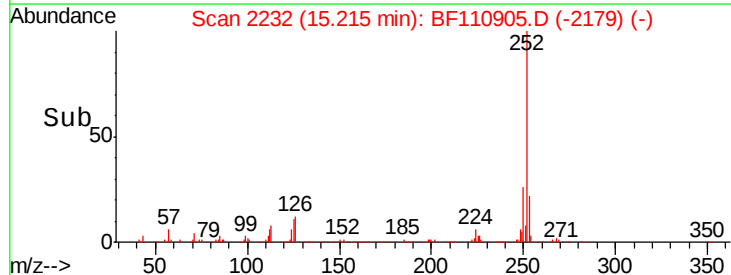
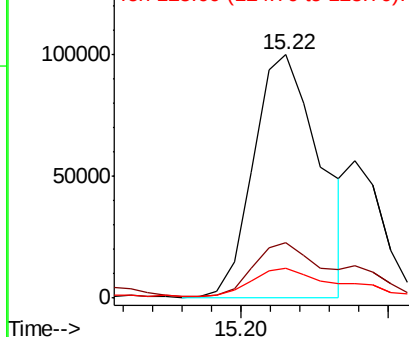


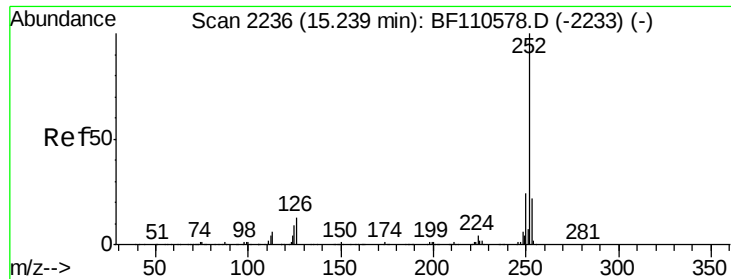
Abundance

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





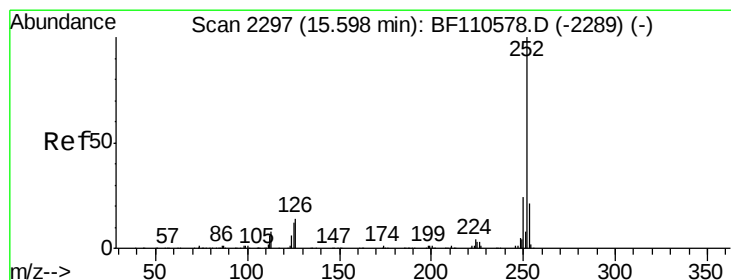
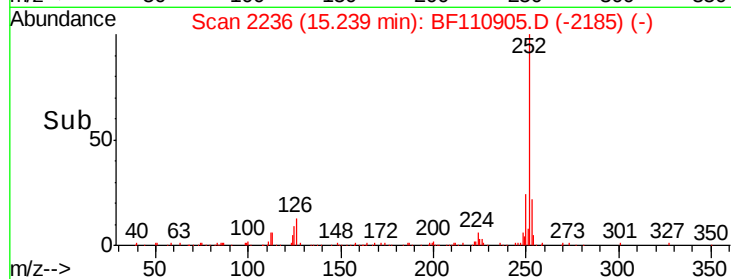
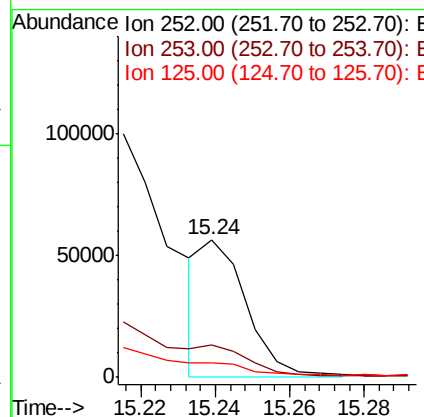
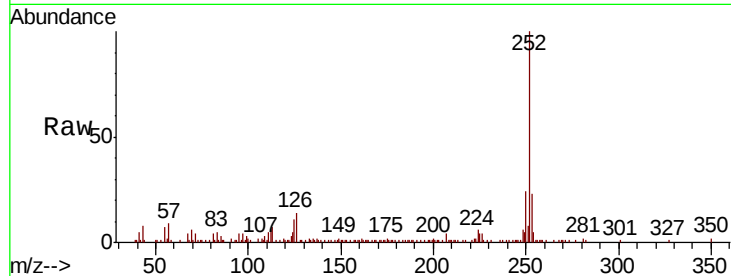
#89
Benzo(k)fluoranthene
Concen: 9.665 ng m
RT: 15.24 min Scan# 2236
Delta R.T. 0.00 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampled :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	10.7	7.4	11.0

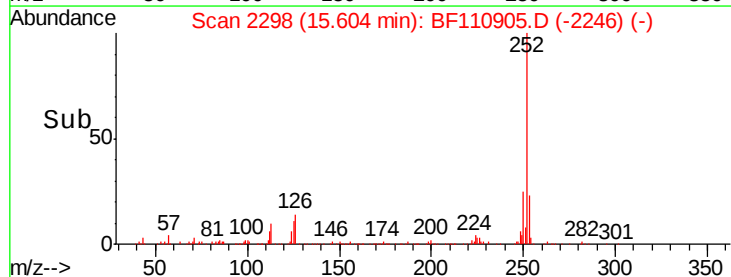
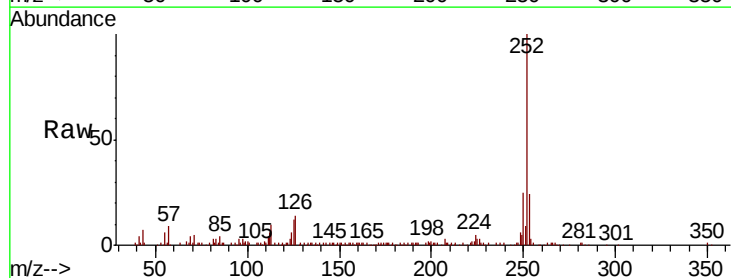
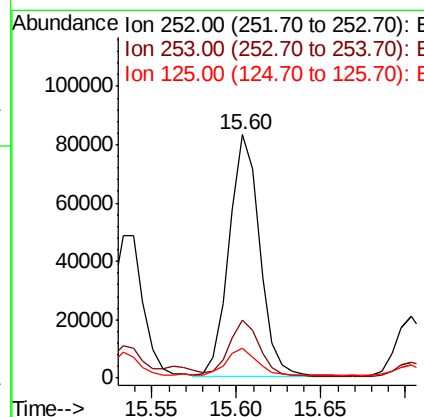
Manual Integrations
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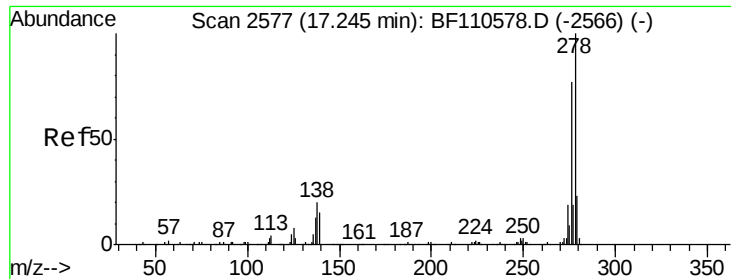
Sohil
11/21/2018 3:18:09 PM



#90
Benzo(a)pyrene
Concen: 23.315 ng
RT: 15.60 min Scan# 2298
Delta R.T. 0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.4
125	12.1	9.0	13.6





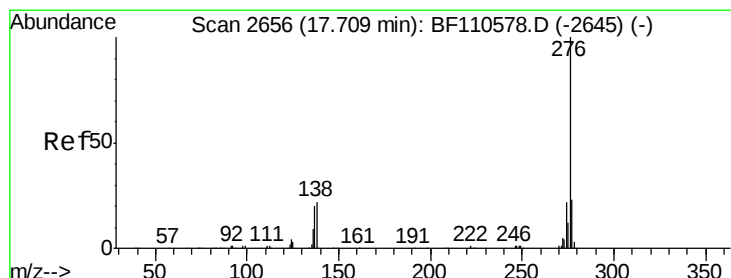
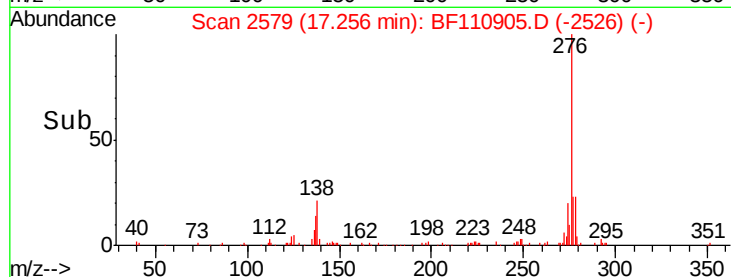
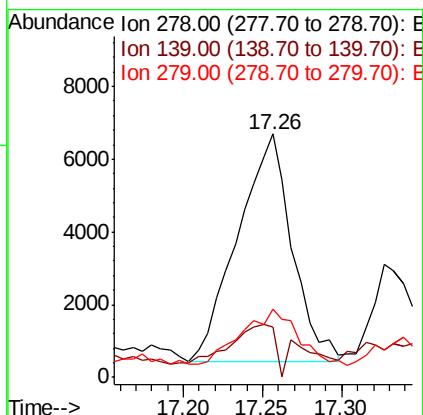
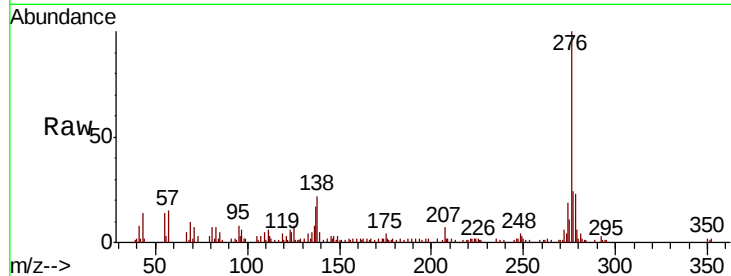
#91
Dibenzo(a,h)anthracene
Concen: 3.898 ng
RT: 17.26 min Scan# 2579
Delta R.T. 0.01 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.7	12.7	19.1#
279	28.2	19.0	28.4

Manual Integrations
APPROVED

Sohil
11/21/2018 3:18:09 PM



#92
Benzo(g,h,i)perylene
Concen: 12.874 ng
RT: 17.74 min Scan# 2662
Delta R.T. 0.04 min
Lab File: BF110905.D
Acq: 20 Nov 2018 20:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.8	28.2
138	23.6	16.0	24.0

