

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101618\
 Data File : BF109901.D
 Acq On : 16 Oct 2018 13:27
 Operator : JU/SJ
 Sample : J5314-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 2

Instrument :
 BNA_F
 ClientSampleId :
 DOCUMENTATION-18

Manual Integrations
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Quant Time: Oct 17 10:18:41 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 15 18:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	570460	40.00	ng	0.00
21) Naphthalene-d8	8.27	136	2218325	40.00	ng	0.00
39) Acenaphthene-d10	10.03	164	1059552	40.00	ng	0.00
64) Phenanthrene-d10	11.52	188	1846670	40.00	ng	0.01
76) Chrysene-d12	14.17	240	1254525	40.00	ng	0.02
87) Perylene-d12	15.70	264	1387536	40.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	1524688	84.73	ng	0.00
7) Phenol-d6	6.60	99	1930106	86.38	ng	0.01
23) Nitrobenzene-d5	7.55	82	1246032	75.68	ng	0.00
42) 2,4,6-Tribromophenol	10.82	330	360790	78.66	ng	0.00
45) 2-Fluorobiphenyl	9.34	172	1801642	54.26	ng	0.00
79) Terphenyl-d14	13.10	244	1433323	47.98	ng	0.01
Target Compounds						
31) Naphthalene	8.29	128	303453	5.966	ng	99
50) Dimethylphthalate	9.73	163	210268	5.605	ng	100
52) Acenaphthene	10.06	154	296132	9.209	ng	98
55) Dibenzofuran	10.23	168	180917	3.945	ng	92
58) Fluorene	10.57	166	246668	7.389	ng	98
71) Phenanthrene	11.55	178	2548109	53.306	ng	96
72) Anthracene	11.59	178	769663	16.015	ng	100
73) Carbazole	11.74	167	319038	6.755	ng	99
75) Fluoranthene	12.74	202	3045633	63.779	ng	95
78) Pyrene	12.97	202	2129496	46.223	ng	98
81) Benzo(a)anthracene	14.16	228	1503310	40.688	ng	98
83) Chrysene	14.19	228	1277971	36.339	ng	97
86) Indeno(1,2,3-cd)pyrene	17.26	276	701798	24.785	ng	98
88) Benzo(b)fluoranthene	15.24	252	1532781m	38.322	ng	
89) Benzo(k)fluoranthene	15.27	252	643109m	16.313	ng	
90) Benzo(a)pyrene	15.63	252	1269172	34.501	ng	98
91) Dibenzo(a,h)anthracene	17.27	278	186615m	5.724	ng	
92) Benzo(g,h,i)perylene	17.74	276	636881	19.335	ng	# 94

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

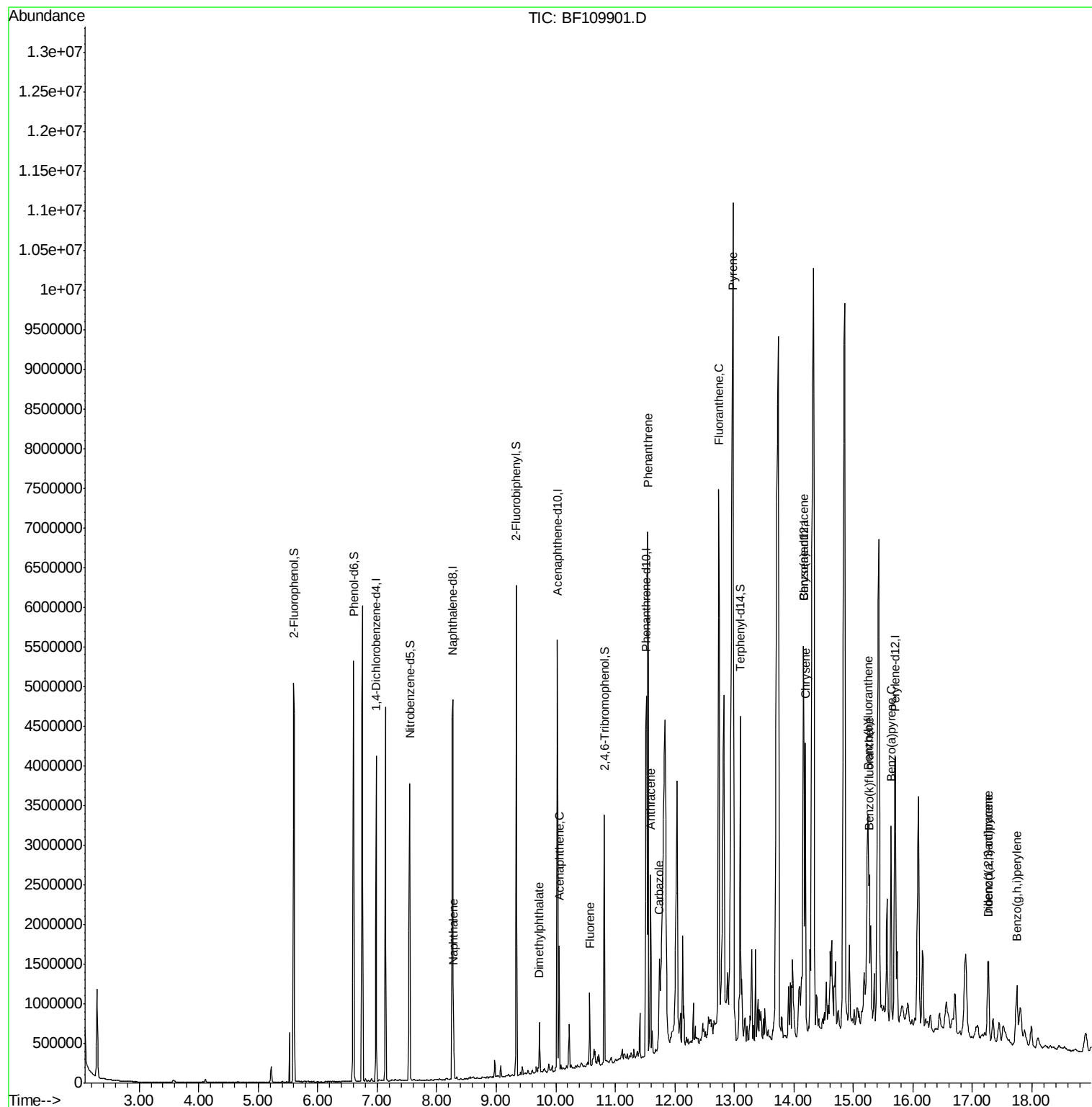
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101618\
Data File : BF109901.D
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ALS Vial : 3 Sample Multiplier: 2

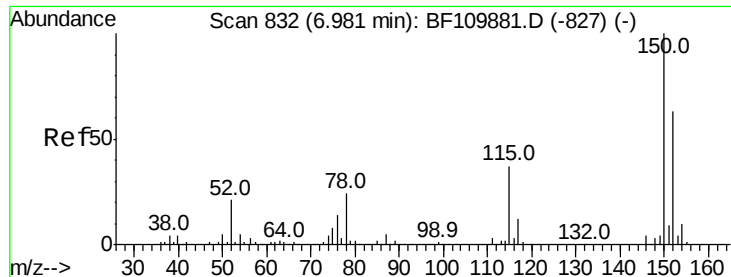
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

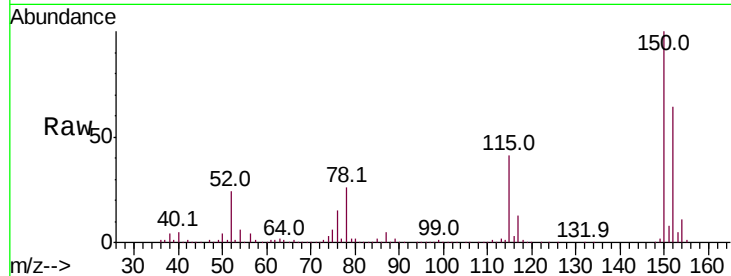
1,4-Dichlorobenzene-d4
Concen: 40.000 ng
RT: 6.98 min Scan# 832
Delta R.T. 0.00 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	122.7	184.1
115	63.7	49.1	73.7

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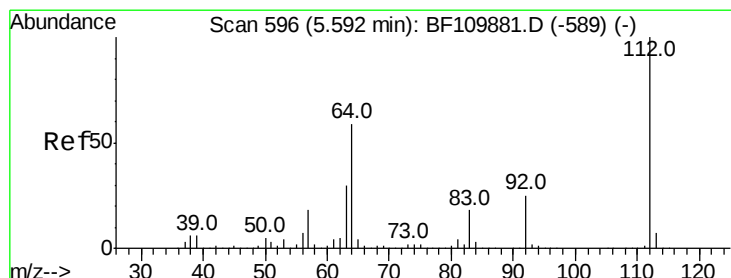
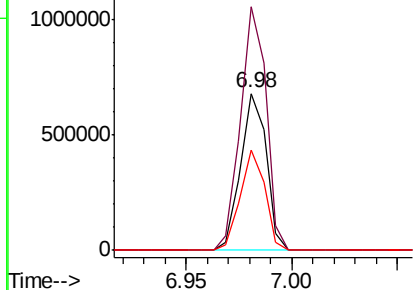
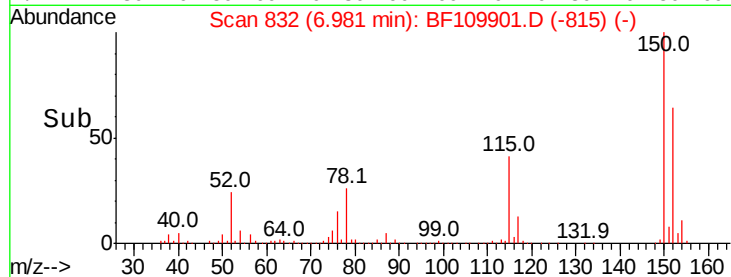


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

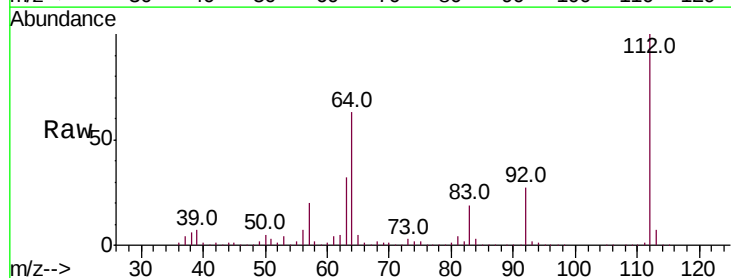
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 84.733 ng
RT: 5.60 min Scan# 597
Delta R.T. 0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.8	44.1	66.1
63	32.1	23.7	35.5

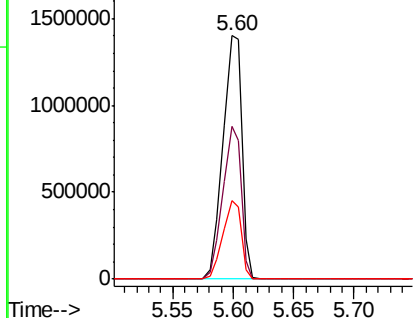
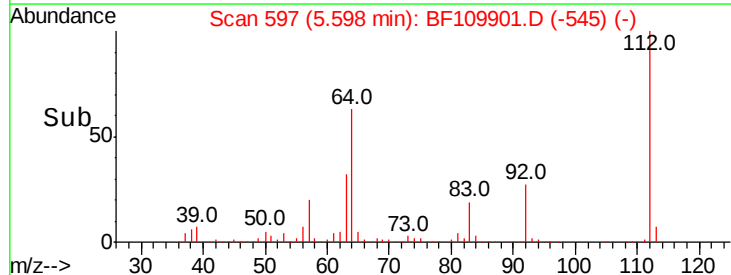


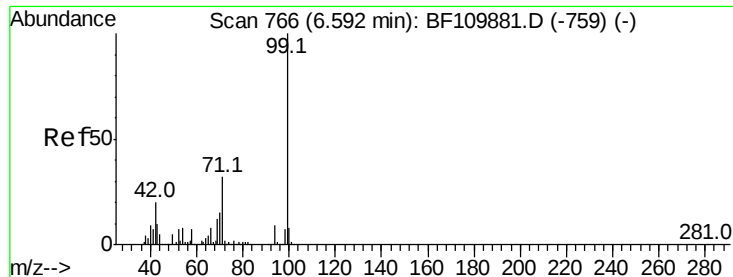
Abundance

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: 86.382 ng

RT: 6.60 min Scan# 768

Delta R.T. 0.01 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

Instrument :

BNA_F

ClientSampleId :

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Tot Ion: 99 Resp: 1930106

Ion Ratio Lower Upper

99 100

42 19.2 15.8 23.6

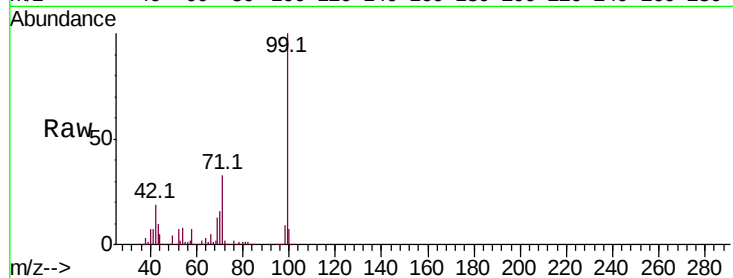
71 33.0 28.0 42.0

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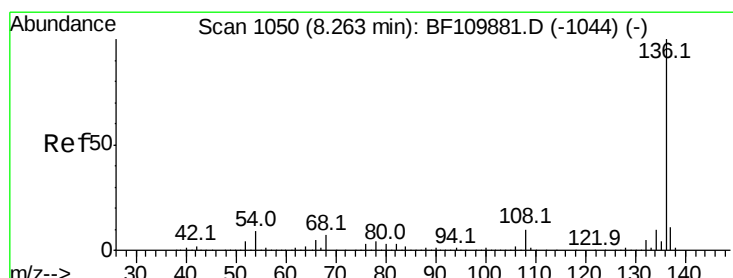
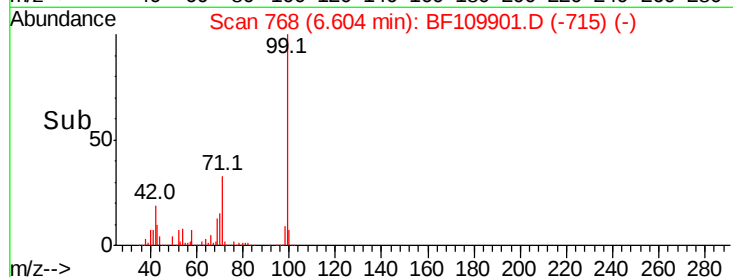
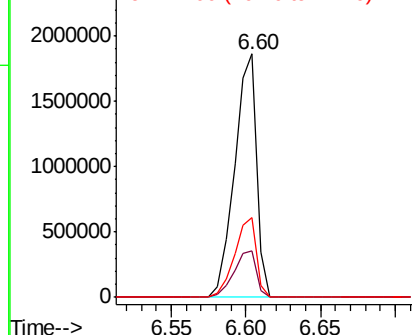
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 40.000 ng

RT: 8.27 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

Tgt Ion: 136 Resp: 2218325

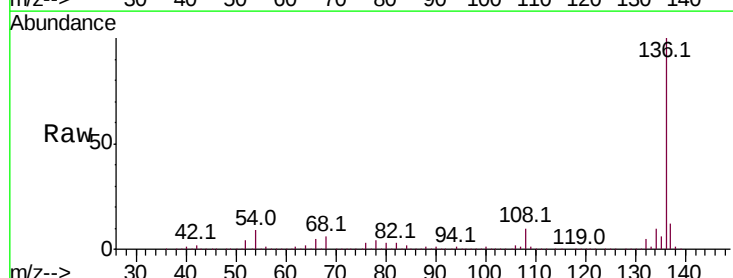
Ion Ratio Lower Upper

136 100

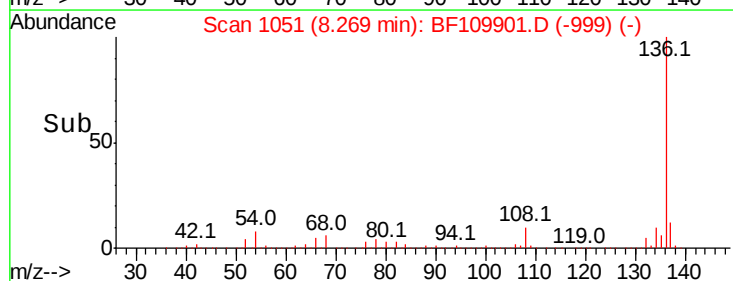
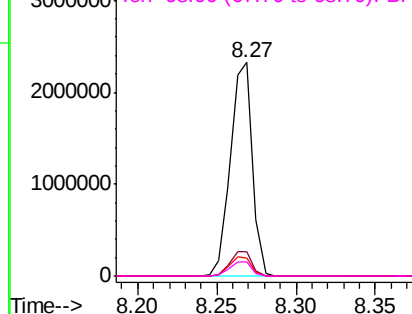
137 11.7 8.8 13.2

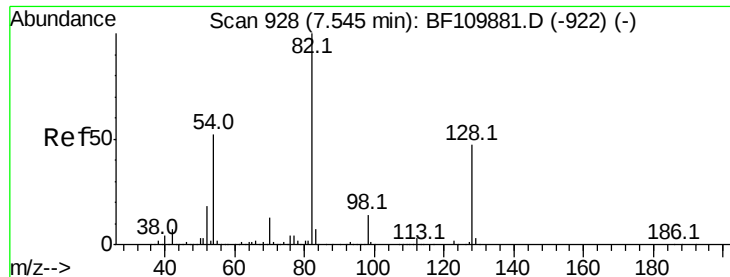
54 8.5 5.4 8.2#

68 6.5 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





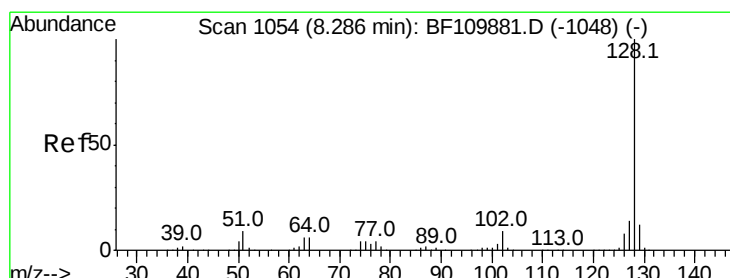
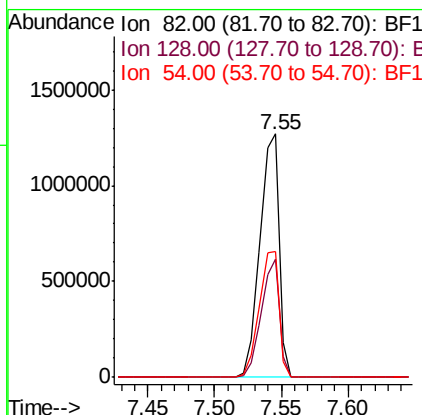
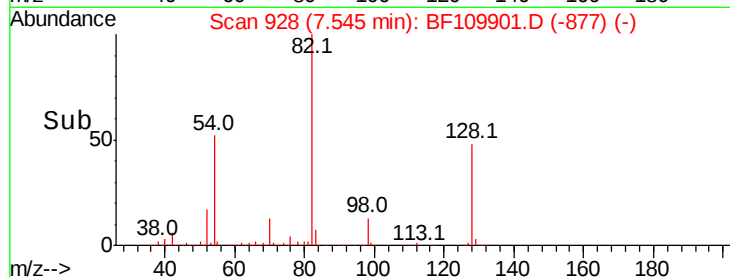
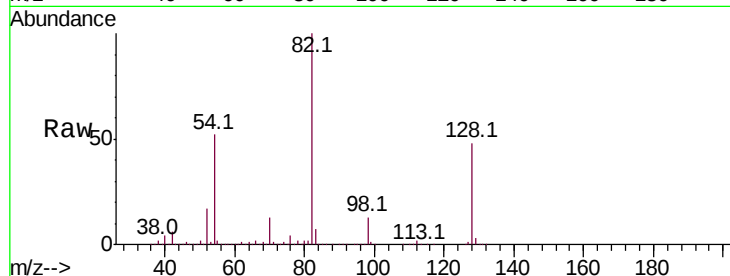
#23
Nitrobenzene-d5
Concen: 75.677 ng
RT: 7.55 min Scan# 928
Delta R.T. 0.00 min
Lab File: BF109901.D
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Tot Ion: 82 Resp: 1246032
Ion Ratio Lower Upper
82 100
128 48.4 34.2 51.2
54 51.8 38.6 58.0

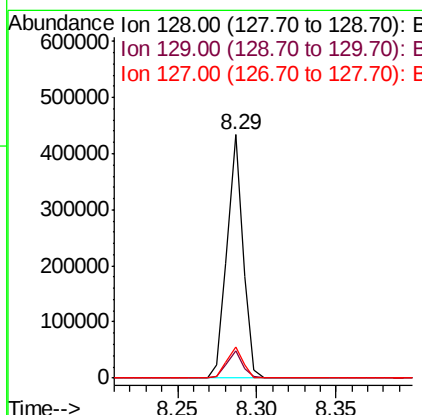
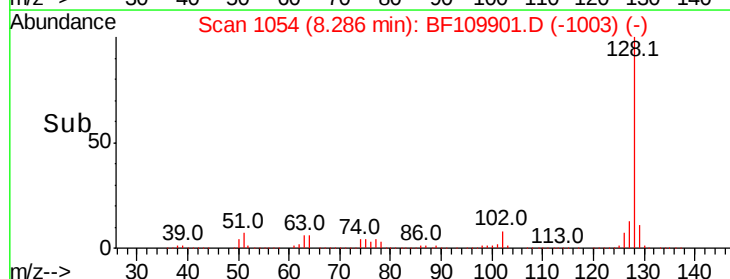
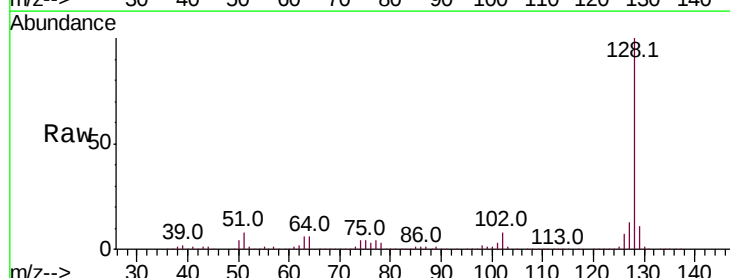
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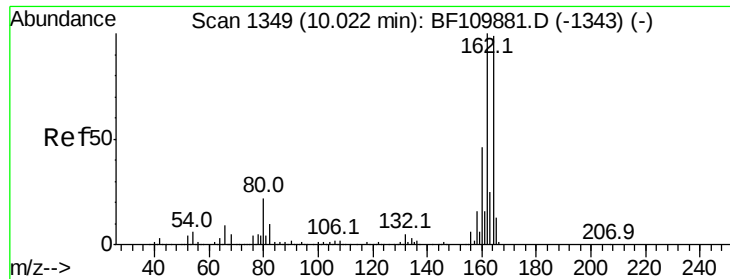
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#31
Naphthalene
Concen: 5.966 ng
RT: 8.29 min Scan# 1054
Delta R.T. 0.00 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion: 128 Resp: 303453
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 12.8 10.8 16.2





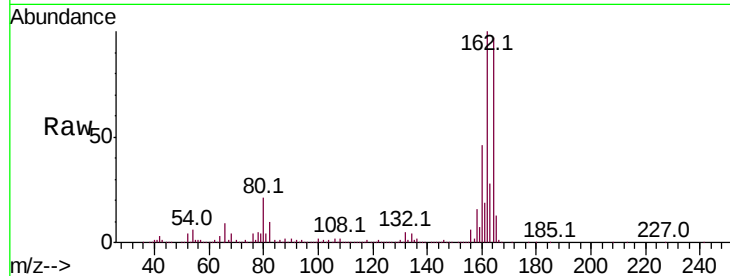
#39
Acenaphthene-d10
Concen: 40.000 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
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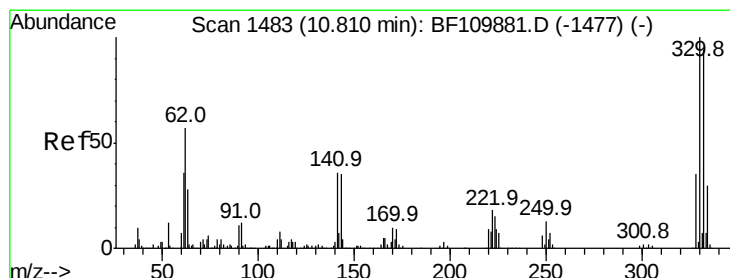
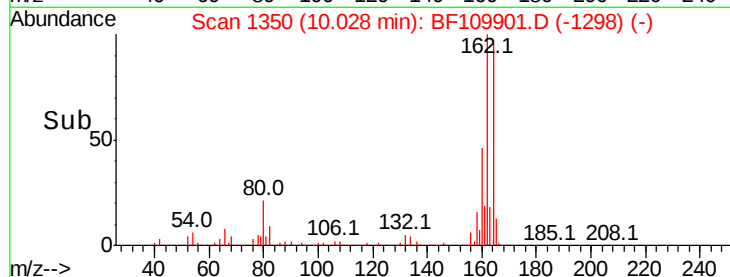
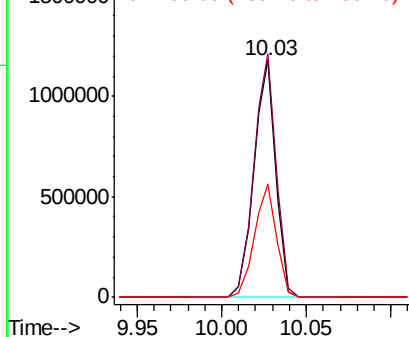
Tot Ion:164 Resp: 1059552
Ion Ratio Lower Upper
164 100
162 102.8 83.0 124.6
160 47.6 37.0 55.6

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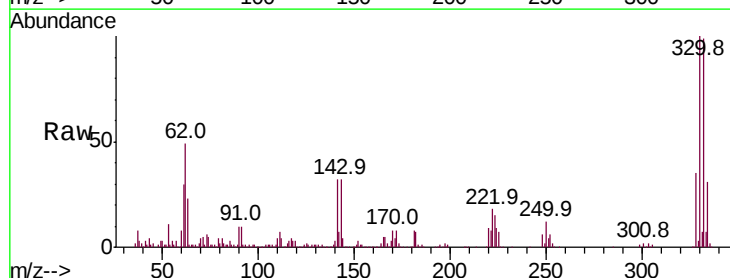


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

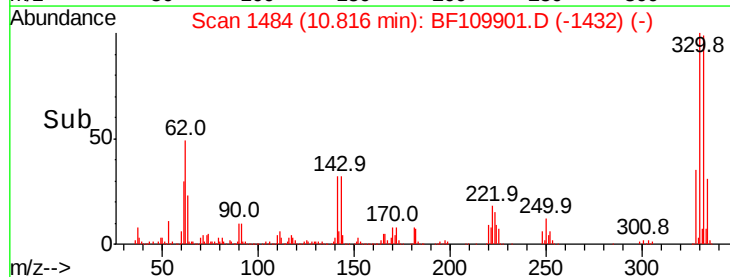
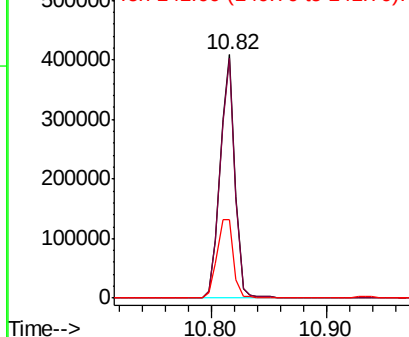


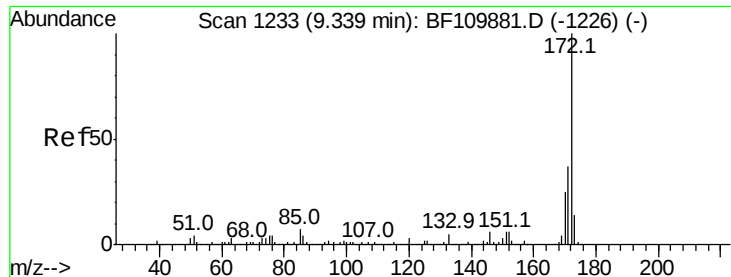
#42
2,4,6-Tribromophenol
Concen: 78.661 ng
RT: 10.82 min Scan# 1484
Delta R.T. 0.01 min
Lab File: BF109901.D
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Tgt Ion:330 Resp: 360790
Ion Ratio Lower Upper
330 100
332 98.5 77.1 115.7
141 35.9 27.0 40.4



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





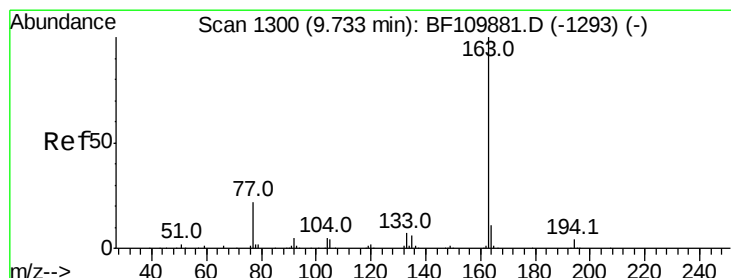
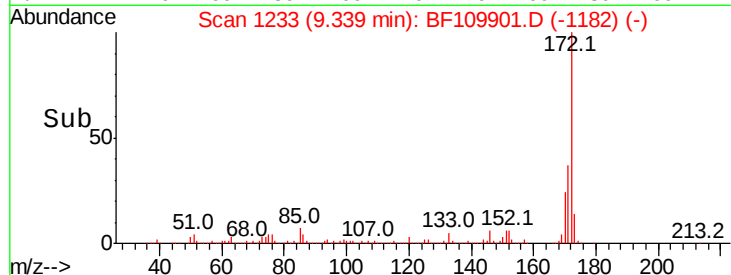
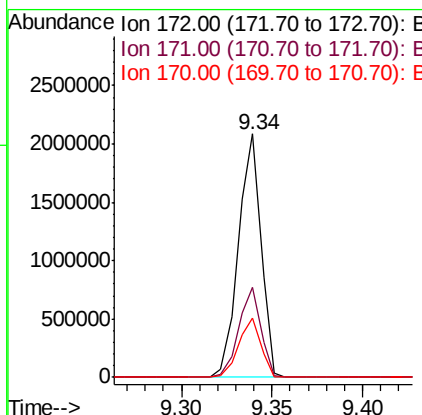
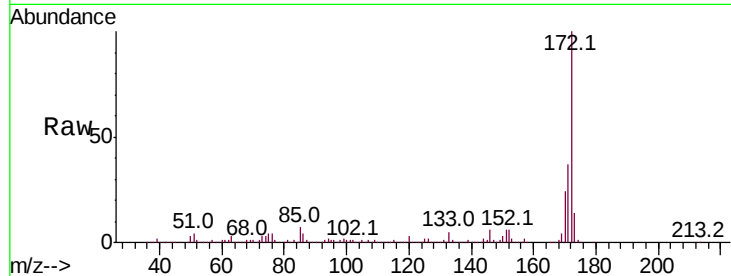
#45
2-Fluorobiphenyl
Concen: 54.264 ng
RT: 9.34 min Scan# 1233
Delta R.T. 0.00 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	36.9	28.6	43.0
170	24.5	19.7	29.5

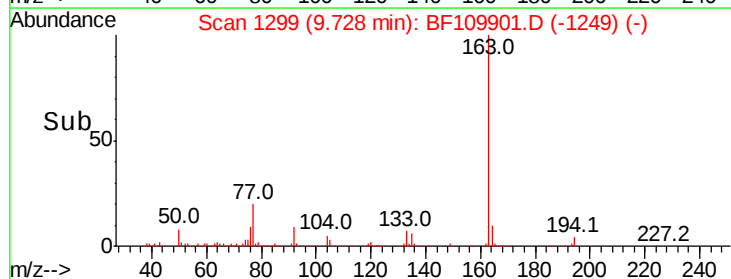
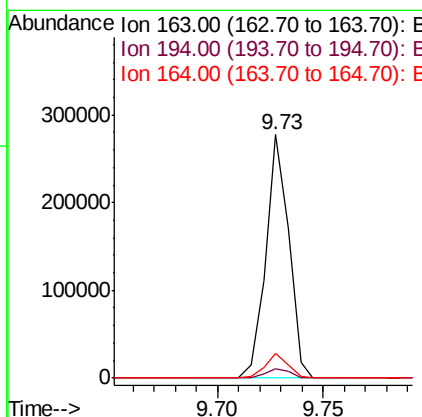
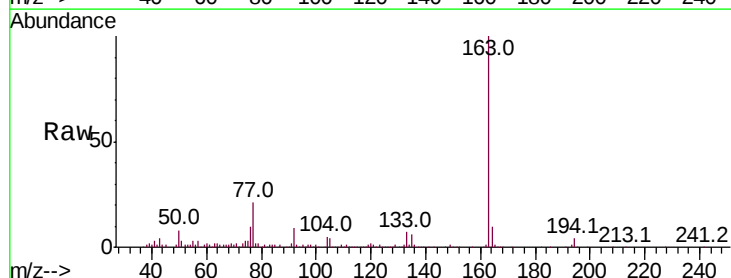
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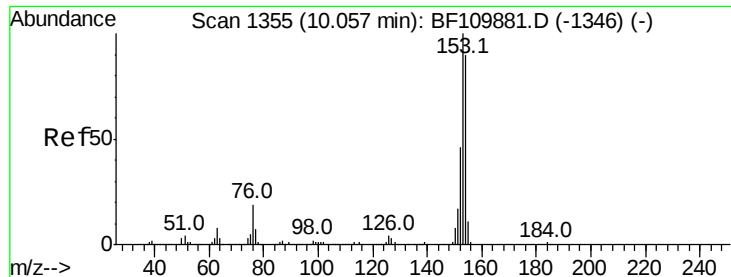
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#50
Dimethylphthalate
Concen: 5.605 ng
RT: 9.73 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.2	4.8
164	10.2	8.1	12.1





#52

Acenaphthene

Concen: 9.209 ng

RT: 10.06 min Scan# 1355

Delta R.T. 0.00 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

Instrument :

BNA_F

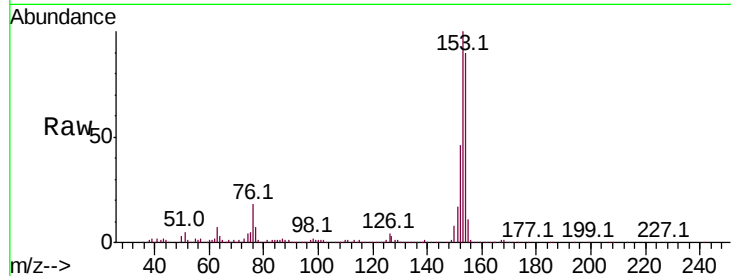
ClientSampleId :

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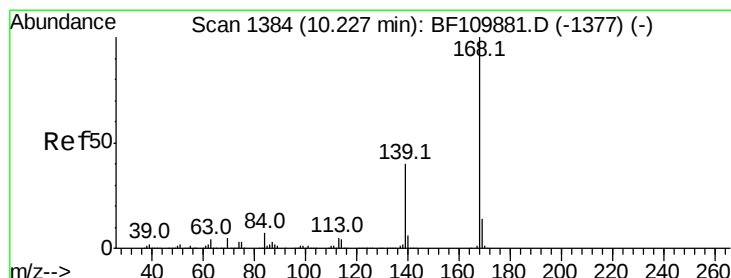
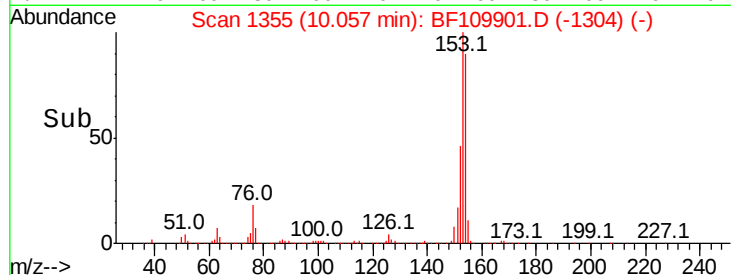
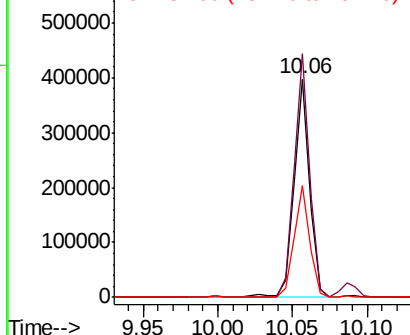
Tot Ion:	154	Resp:	296132
Ion Ratio	Lower	Upper	
154	100		
153	111.4	90.1	135.1
152	50.9	43.4	65.2

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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



#55

Dibenzofuran

Concen: 3.945 ng

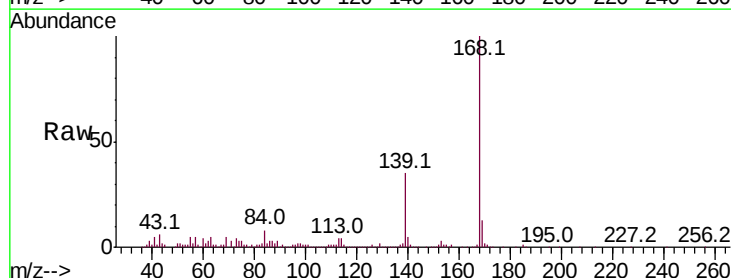
RT: 10.23 min Scan# 1384

Delta R.T. 0.00 min

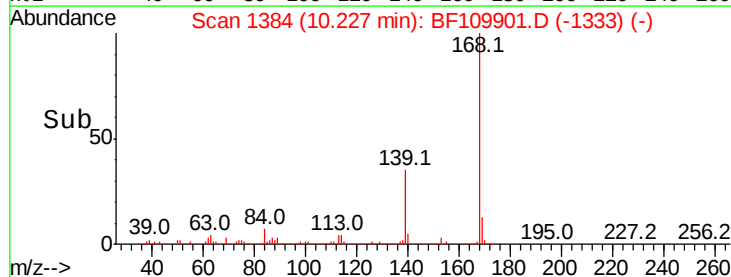
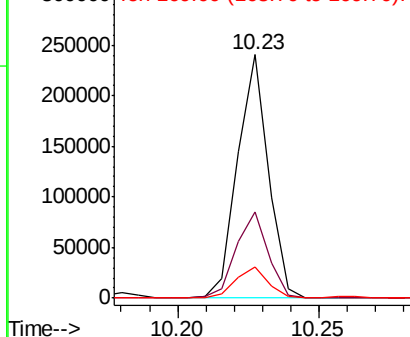
Lab File: BF109901.D

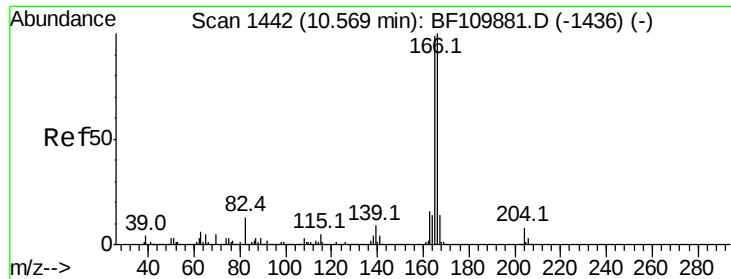
Acq: 16 Oct 2018 13:27

Tgt Ion:	168	Resp:	180917
Ion Ratio	Lower	Upper	
168	100		
139	35.4	33.0	49.6
169	12.8	11.3	16.9



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





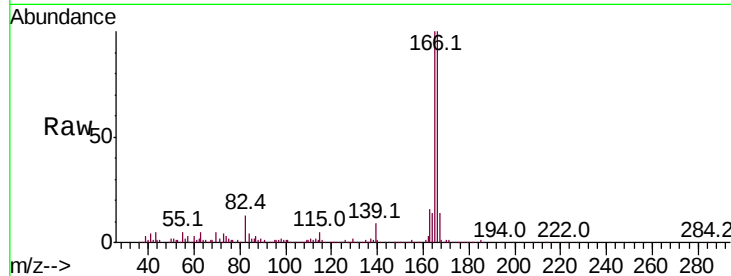
#58
 Fluorene
 Concen: 7.389 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. 0.00 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
166	100	246668		
165	99.9	78.6	117.8	
167	14.2	10.8	16.2	

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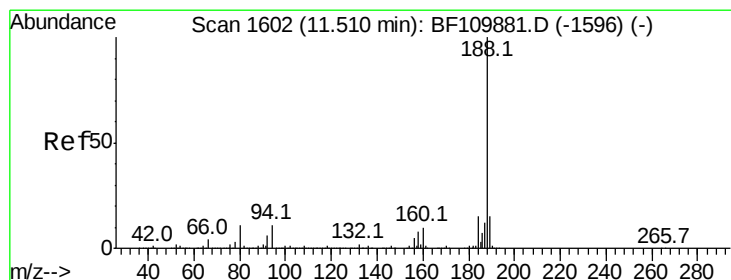
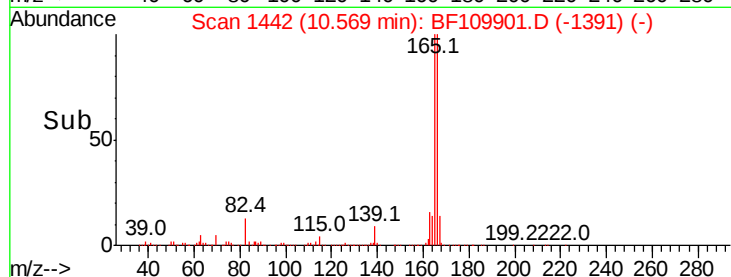
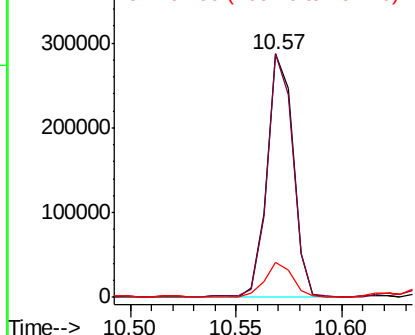


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 40.000 ng
 RT: 11.52 min Scan# 1604
 Delta R.T. 0.01 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

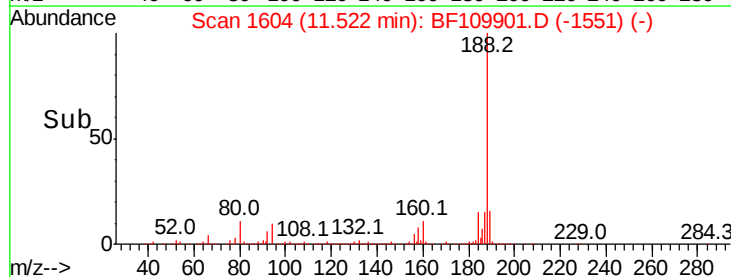
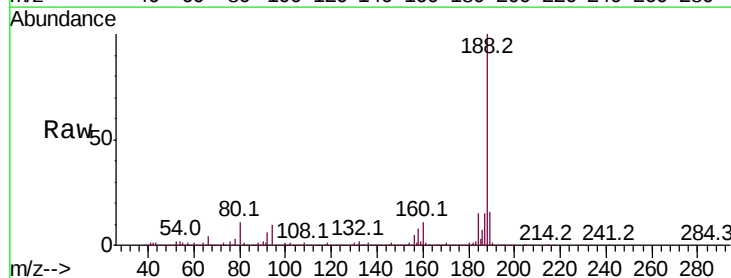
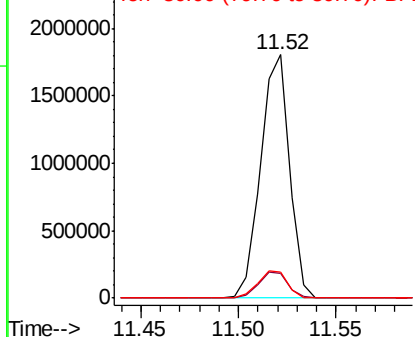
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	1846670		
94	10.1	7.2	10.8	
80	10.7	7.9	11.9	

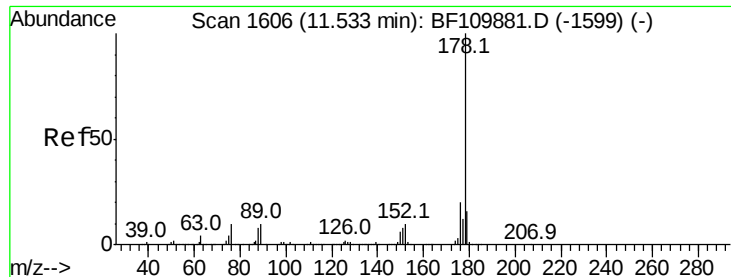
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





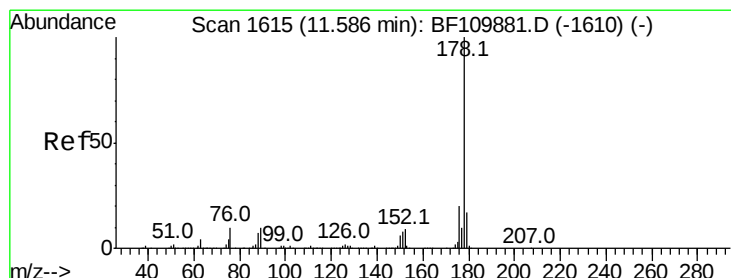
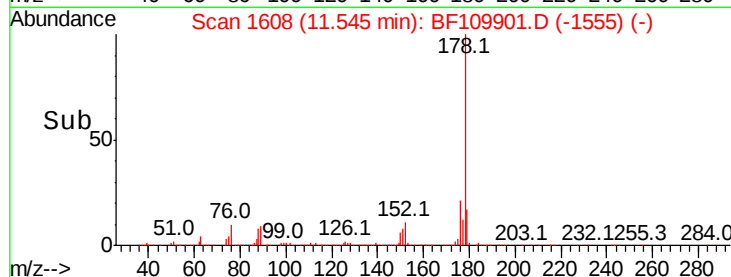
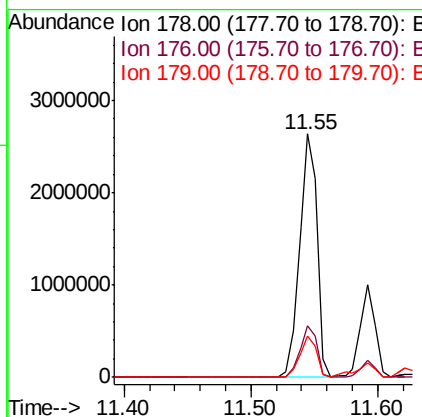
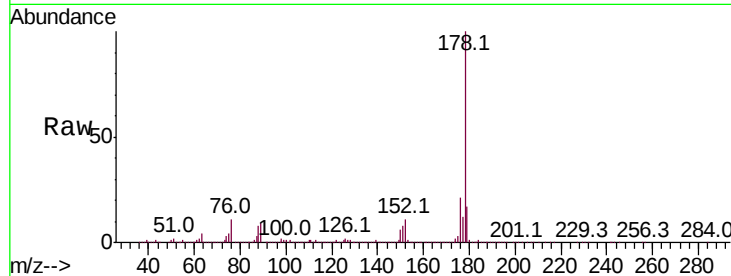
#71
Phenanthrene
Concen: 53.306 ng
RT: 11.55 min Scan# 1608
Delta R.T. 0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-18

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.9	15.5	23.3
179	17.2	12.5	18.7

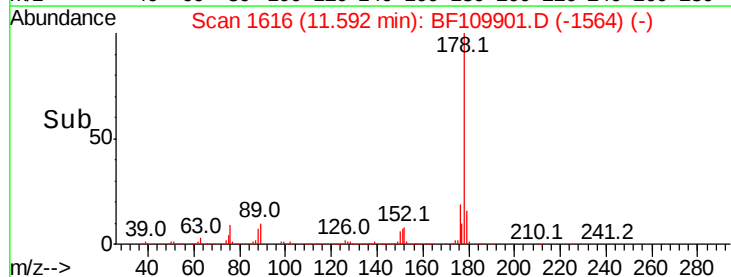
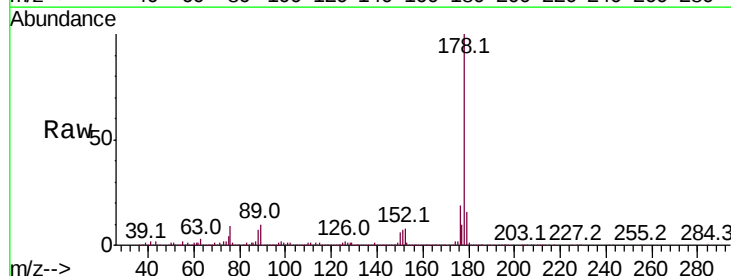
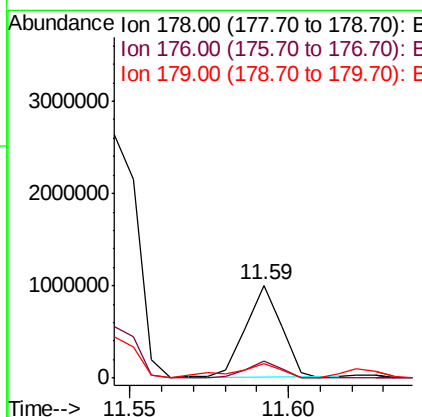
Manual Integrations
APPROVED

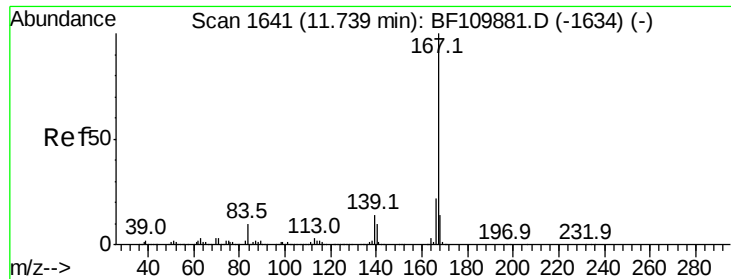
Sohil
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#72
Anthracene
Concen: 16.015 ng
RT: 11.59 min Scan# 1616
Delta R.T. 0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.6	12.6	18.8





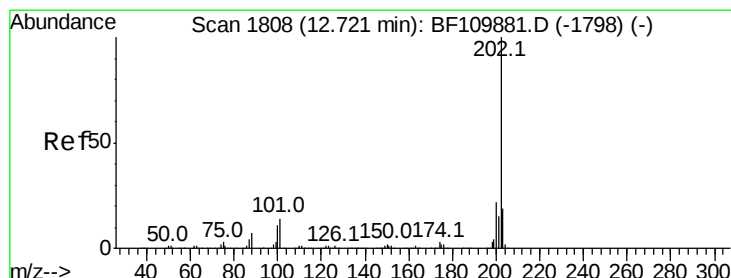
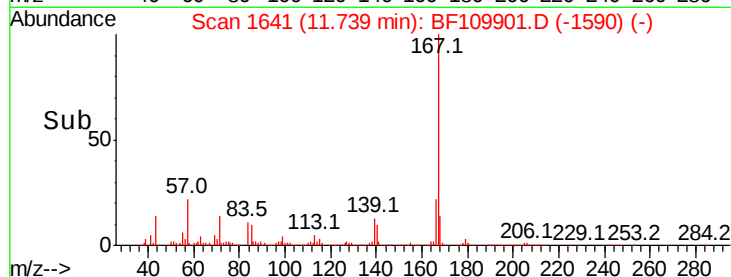
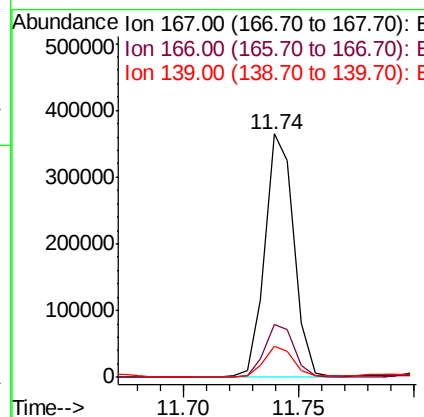
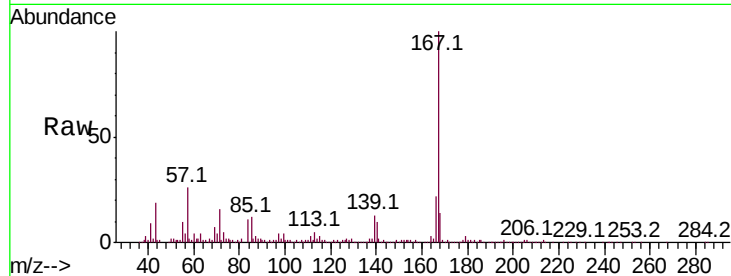
#73
 Carbazole
 Concen: 6.755 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

Instrument :
 BNA_F
 ClientSampleId :
 DOCUMENTATION-18

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.0
139	13.0	10.9	16.3

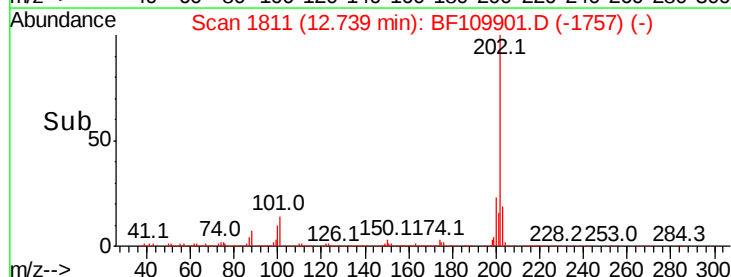
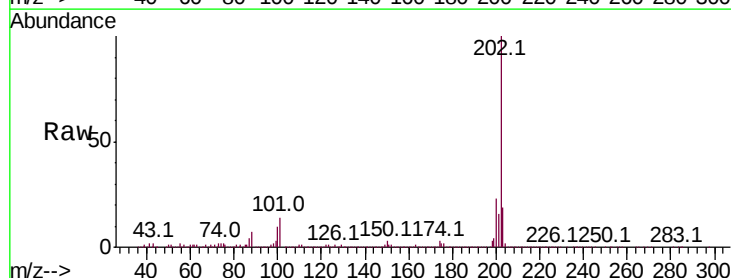
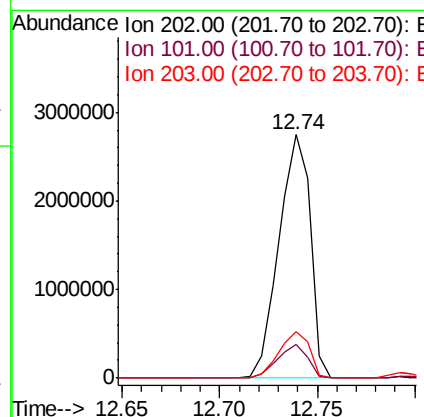
Manual Integrations
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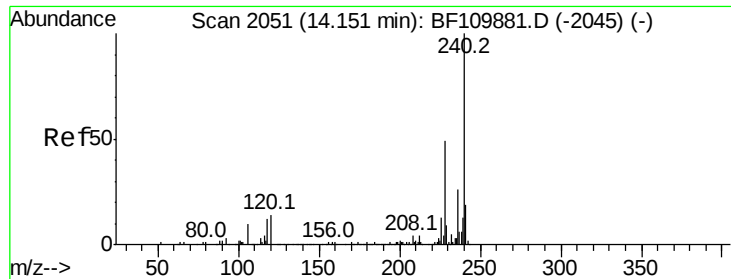
Sohil
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#75
 Fluoranthene
 Concen: 63.779 ng
 RT: 12.74 min Scan# 1811
 Delta R.T. 0.02 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.0	0.0	31.4
203	19.1	0.0	37.7





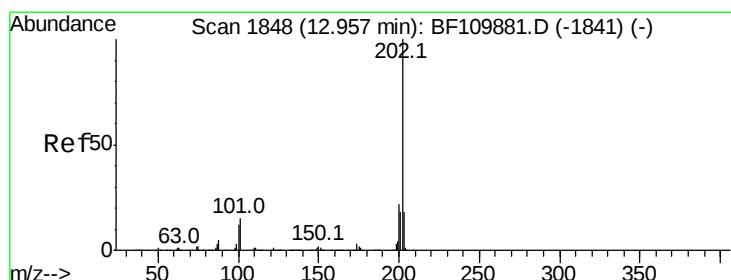
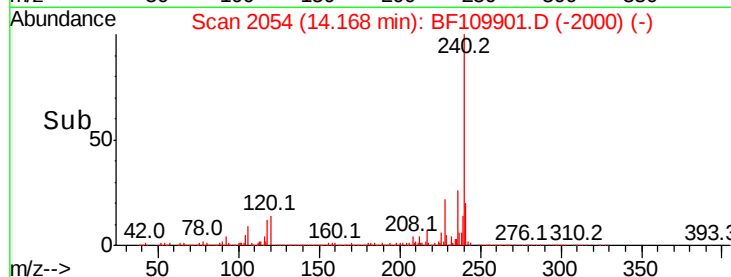
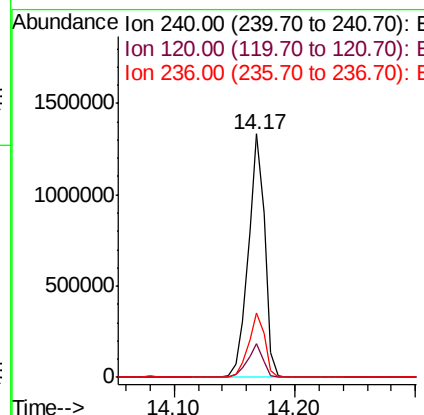
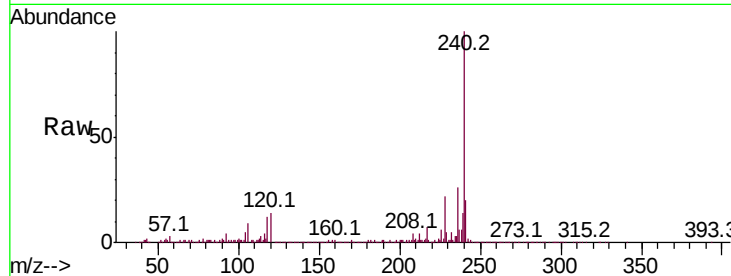
#76
Chrysene-d12
Concen: 40.000 ng
RT: 14.17 min Scan# 2054
Delta R.T. 0.02 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-18

Tot Ion:240 Resp: 1254525
Ion Ratio Lower Upper
240 100
120 13.7 8.3 12.5#
236 26.4 21.2 31.8

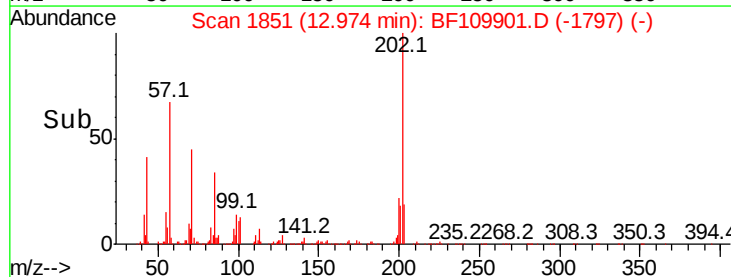
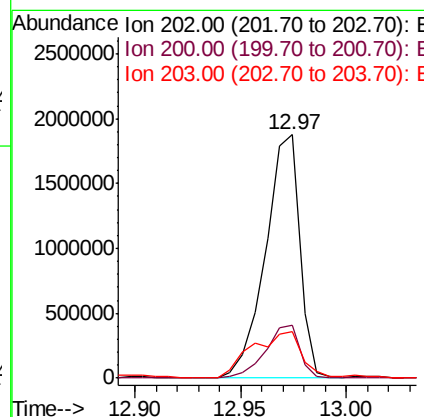
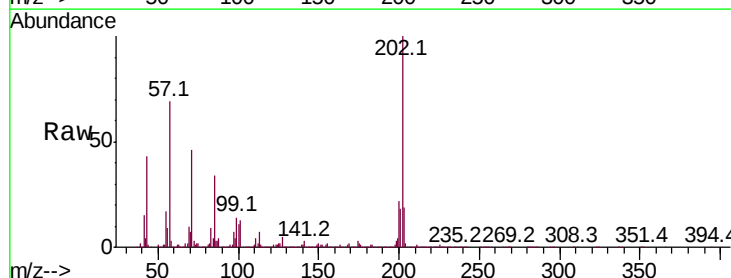
Manual Integrations
APPROVED

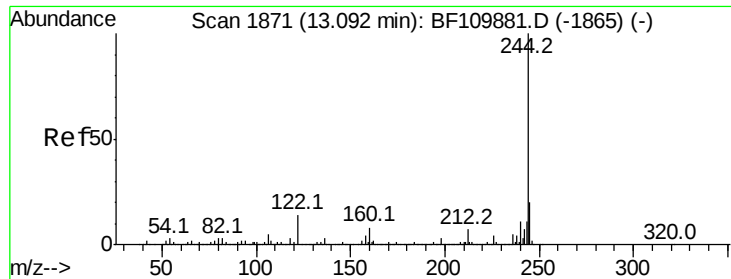
Sohil
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#78
Pyrene
Concen: 46.223 ng
RT: 12.97 min Scan# 1851
Delta R.T. 0.02 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion:202 Resp: 2129496
Ion Ratio Lower Upper
202 100
200 21.8 17.8 26.6
203 18.9 14.2 21.4





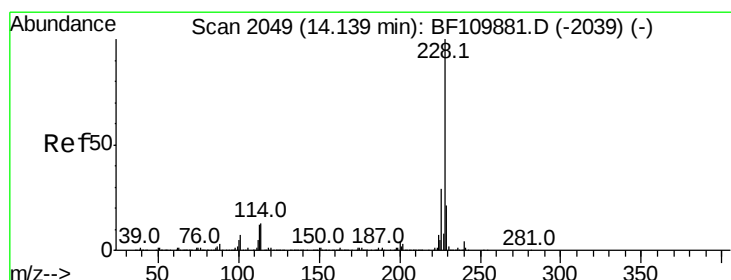
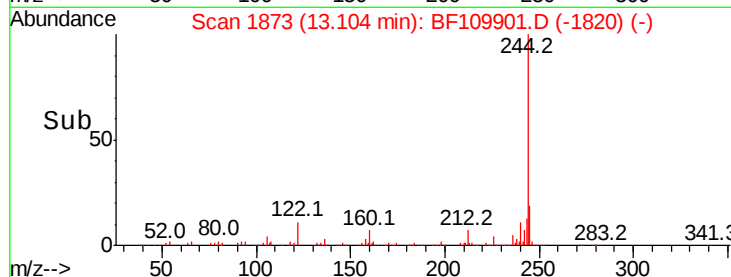
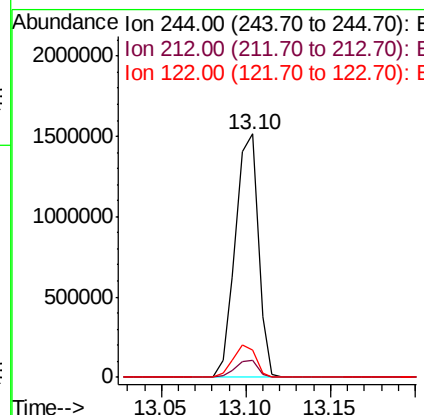
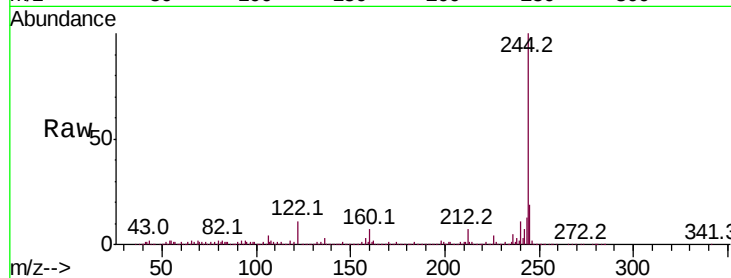
#79
 Terphenyl-d14
 Concen: 47.984 ng
 RT: 13.10 min Scan# 1873
 Delta R.T. 0.01 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

Instrument :
 BNA_F
 ClientSampleId :
 DOCUMENTATION-18

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.8
122	11.3	8.7	13.1

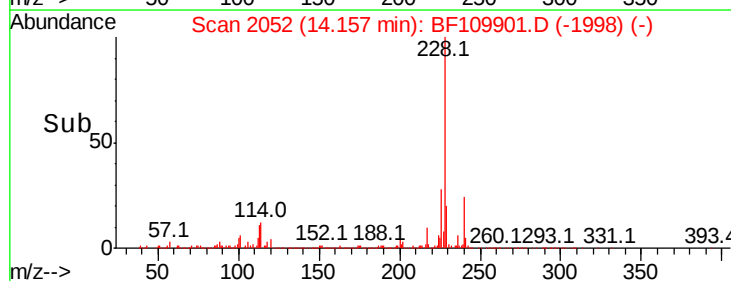
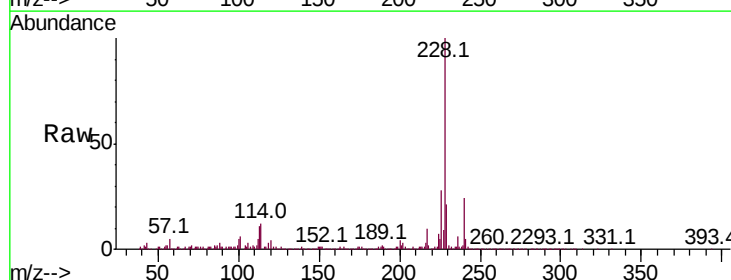
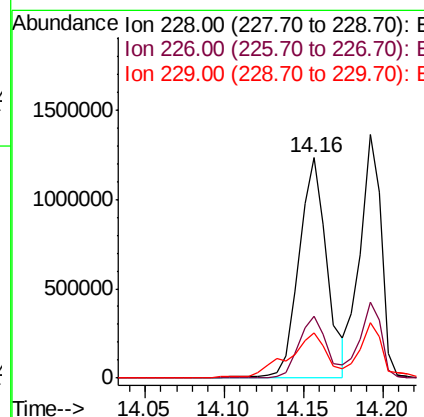
Manual Integrations
 APPROVED

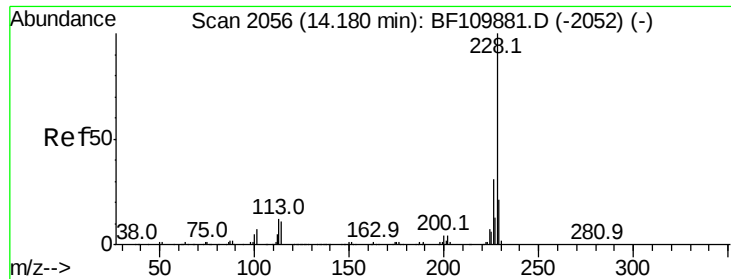
Sohil
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#81
 Benzo(a)anthracene
 Concen: 40.688 ng
 RT: 14.16 min Scan# 2052
 Delta R.T. 0.02 min
 Lab File: BF109901.D
 Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.1	33.1
229	20.7	15.6	23.4





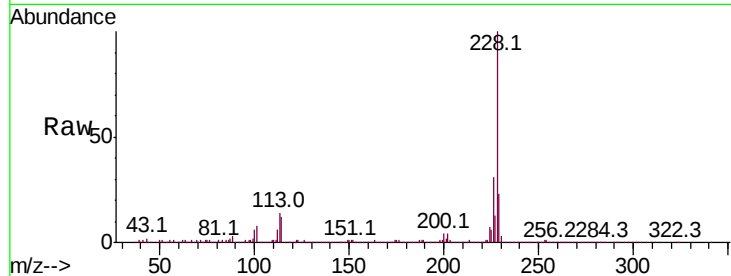
#83
Chrysene
Concen: 36.339 ng
RT: 14.19 min Scan# 2058
Delta R.T. 0.01 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-18

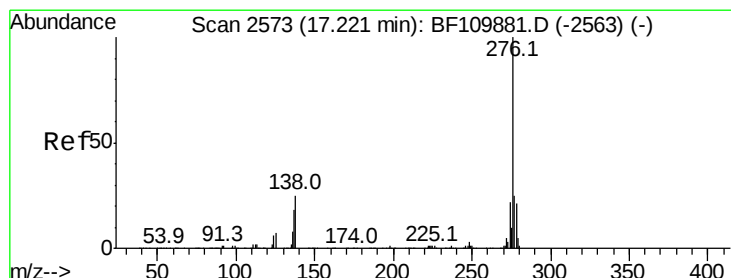
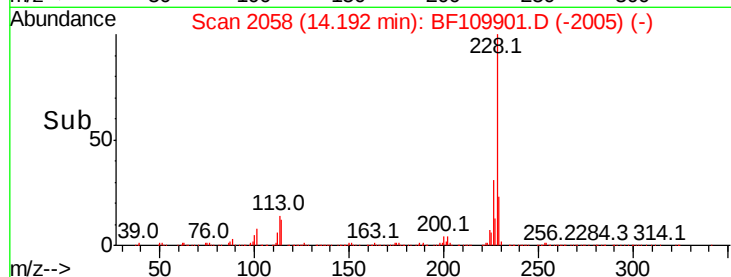
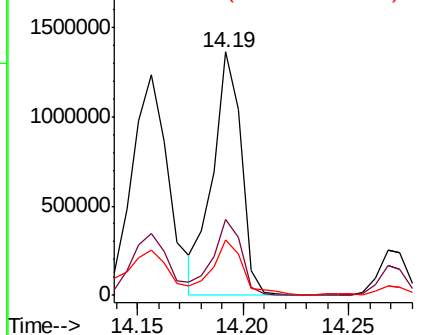
Tot Ion:228 Resp: 1277971
Ion Ratio Lower Upper
228 100
226 31.3 24.7 37.1
229 23.0 15.9 23.9

Manual Integrations
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Sohil
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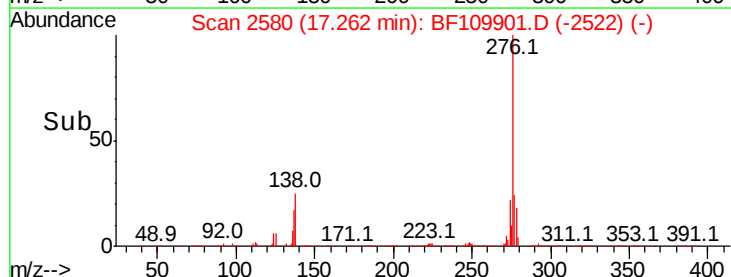
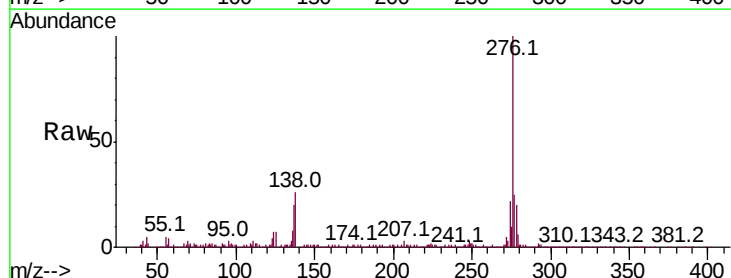
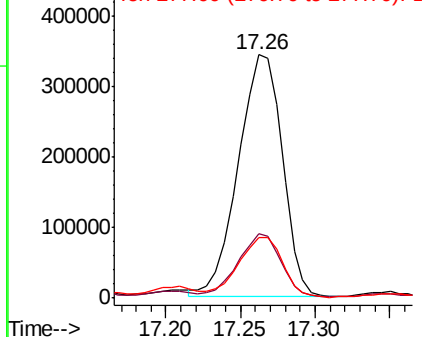
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

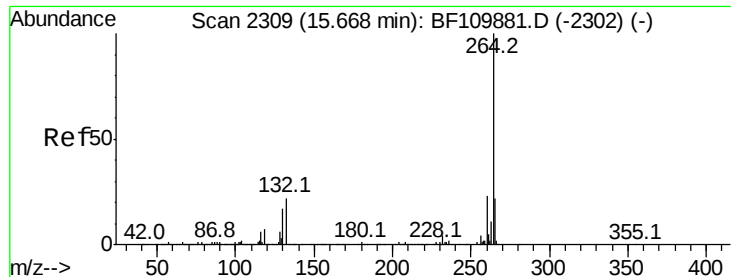


#86
Indeno(1,2,3-cd)pyrene
Concen: 24.785 ng
RT: 17.26 min Scan# 2580
Delta R.T. 0.04 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion:276 Resp: 701798
Ion Ratio Lower Upper
276 100
138 25.2 18.5 27.7
277 24.8 20.0 30.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 40.000 ng

RT: 15.70 min Scan# 2315

Delta R.T. 0.04 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

Instrument :

BNA_F

ClientSampleId :

DOCUMENTATION-18

Tot Ion:264 Resp: 1387536

Ion Ratio Lower Upper

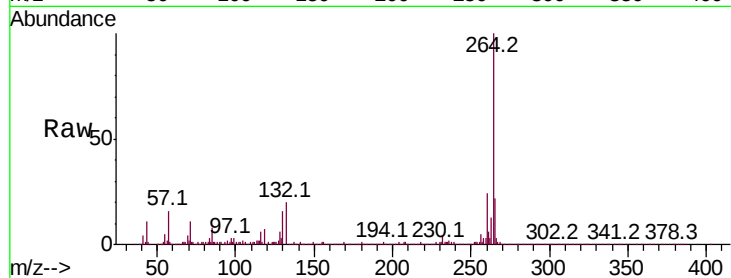
264 100

260 23.9 18.7 28.1

265 21.9 16.7 25.1

Manual Integrations
APPROVED

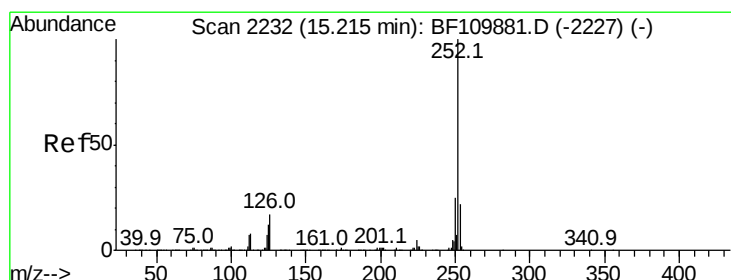
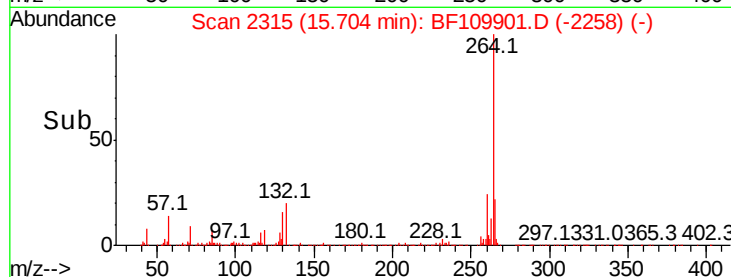
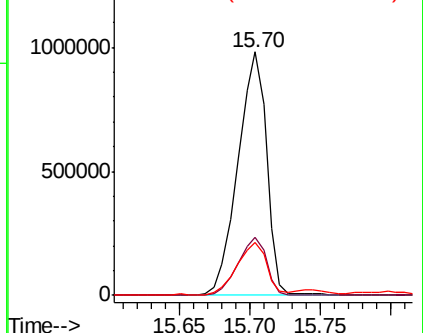
Sohil
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Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 38.322 ng m

RT: 15.24 min Scan# 2237

Delta R.T. 0.03 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

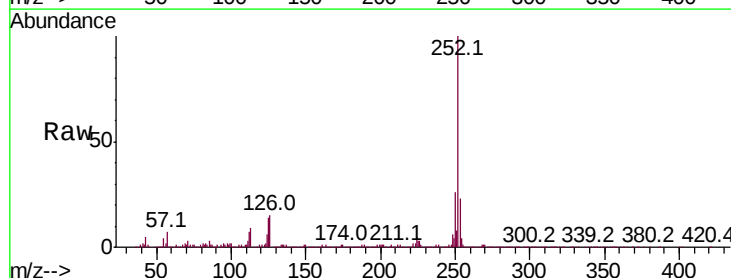
Tgt Ion:252 Resp: 1532781

Ion Ratio Lower Upper

252 100

253 23.5 17.2 25.8

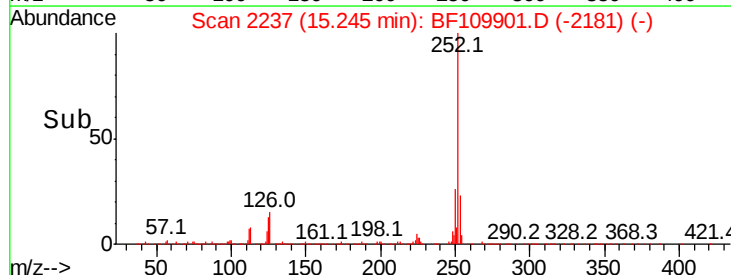
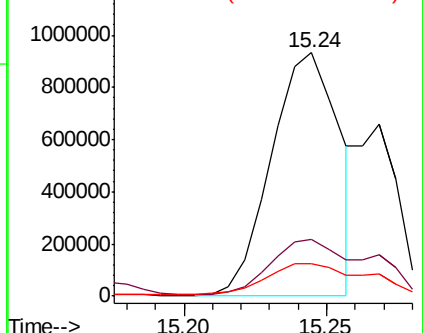
125 13.5 8.2 12.4#

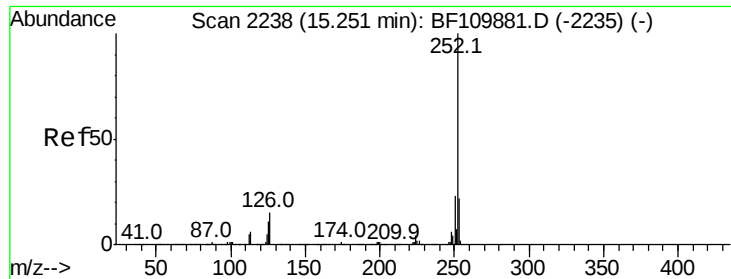


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 16.313 ng m

RT: 15.27 min Scan# 2241

Delta R.T. 0.02 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

Instrument :

BNA_F

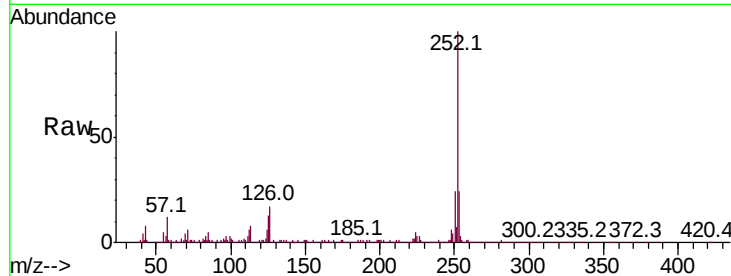
ClientSampleId :

DOCUMENTATION-18

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.2	25.8
125	12.8	7.4	11.0

Manual Integrations
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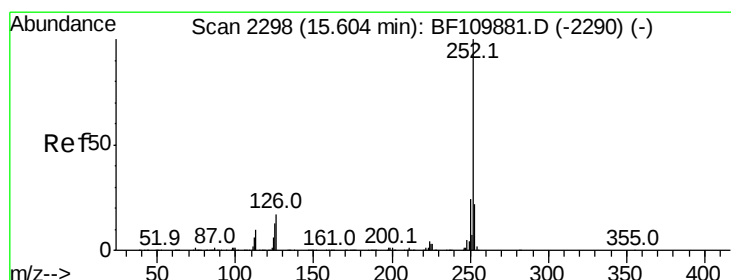
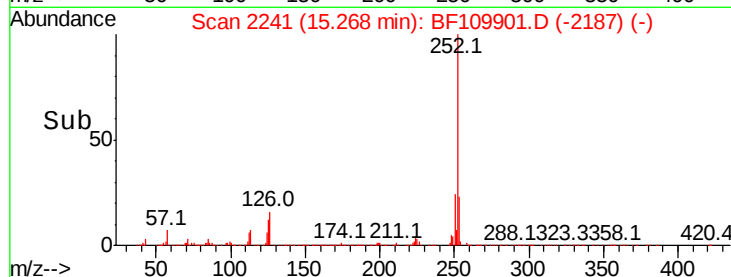
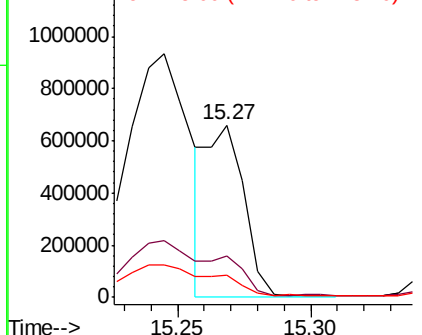


Abundance

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



#90

Benzo(a)pyrene

Concen: 34.501 ng

RT: 15.63 min Scan# 2303

Delta R.T. 0.03 min

Lab File: BF109901.D

Acq: 16 Oct 2018 13:27

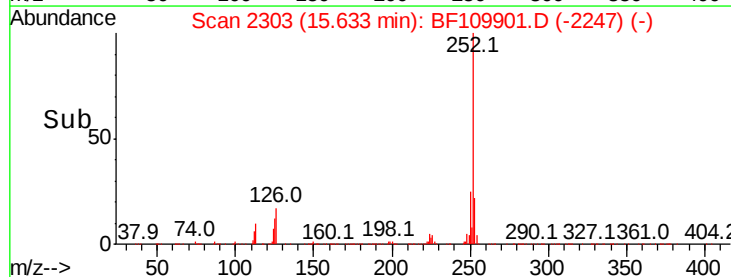
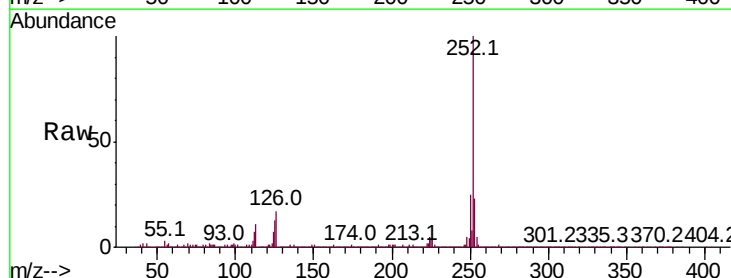
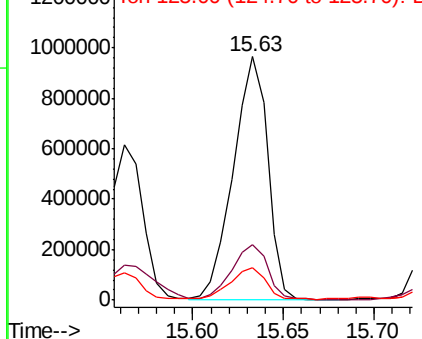
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	13.1	9.0	13.6

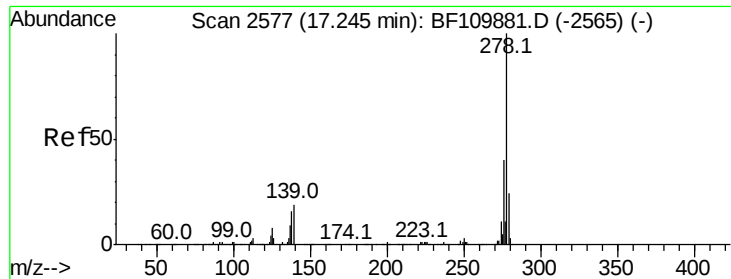
Abundance

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





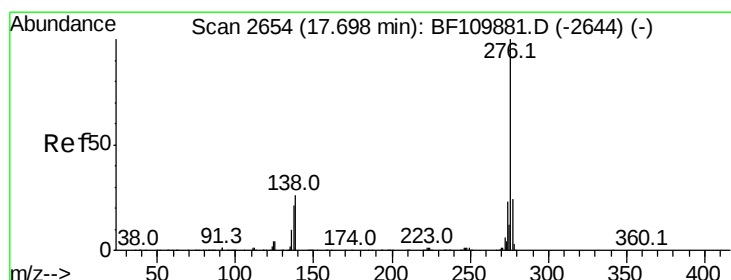
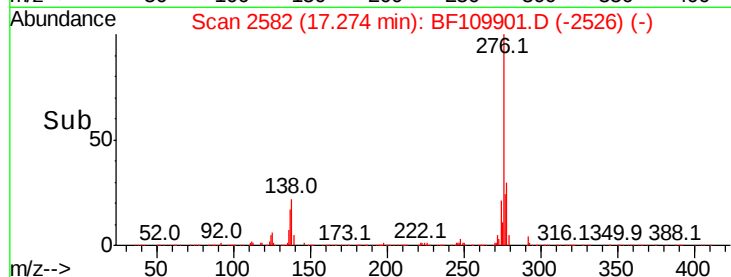
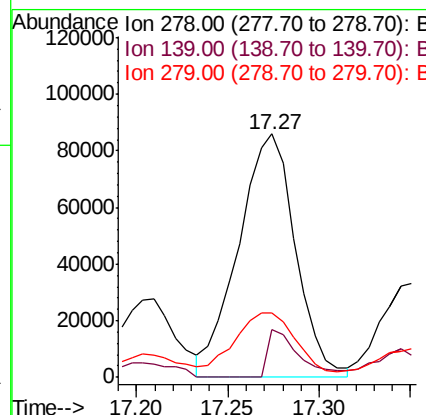
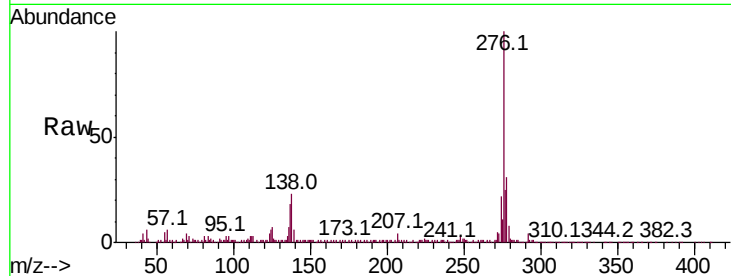
#91
Dibenzo(a,h)anthracene
Concen: 5.724 ng m
RT: 17.27 min Scan# 2582
Delta R.T. 0.03 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Instrument :
BNA_F
ClientSampleId :
DOCUMENTATION-18

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.4	12.7	19.1#
279	26.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
10/17/2018 5:02:26 PM



#92
Benzo(g,h,i)perylene
Concen: 19.335 ng
RT: 17.74 min Scan# 2662
Delta R.T. 0.05 min
Lab File: BF109901.D
Acq: 16 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.8	28.2
138	25.8	16.0	24.0#

