

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020618\
 Data File : BF102781.D
 Acq On : 6 Feb 2018 13:57
 Operator : SJ/JU
 Sample : J1454-13
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-9-WW(4-6)

Manual Integrations
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 2/7/2018 4:16:16 PM

Quant Time: Feb 06 15:52:27 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	199944	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	827619	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	334382	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	435703	20.00	ng	0.00
75) Chrysene-d12	14.06	240	264378	20.00	ng	0.00
86) Perylene-d12	15.55	264	300310	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	1446640	109.88	ng	0.01
7) Phenol-d6	6.51	99	1708788	107.79	ng	0.00
23) Nitrobenzene-d5	7.45	82	1000403	83.85	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	261446	97.14	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	1496870	74.28	ng	0.00
78) Terphenyl-d14	13.00	244	778488	69.72	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.52	94	48448	2.852	ng	96
31) Naphthalene	8.19	128	192439	4.759	ng	99
37) 2-Methylnaphthalene	8.87	142	88400	3.339	ng	96
49) Dimethylphthalate	9.63	163	195310	7.491	ng	# 98
51) Acenaphthene	9.95	154	108400	5.263	ng	99
54) Dibenzofuran	10.13	168	79331	2.733	ng	# 79
57) Fluorene	10.47	166	122735	5.812	ng	99
70) Phenanthrene	11.44	178	799634	32.953	ng	99
71) Anthracene	11.49	178	220326	8.927	ng	98
72) Carbazole	11.64	167	115831	4.791	ng	# 88
74) Fluoranthene	12.63	202	761637	31.196	ng	99
77) Pylene	12.86	202	639654	30.854	ng	98
80) Benzo(a)anthracene	14.04	228	313920	18.880	ng	97
82) Chrysene	14.09	228	313732	18.718	ng	97
85) Indeno(1,2,3-cd)pyrene	17.04	276	209022	15.036	ng	94
87) Benzo(b)fluoranthene	15.11	252	455609m	23.400	ng	
88) Benzo(k)fluoranthene	15.13	252	125671m	6.755	ng	
89) Benzo(a)pyrene	15.48	252	320067	18.263	ng	# 84
90) Dibenzo(a,h)anthracene	17.04	278	47680	3.352	ng	# 78
91) Benzo(a,h,i)perylene	17.49	276	190944	13.714	ng	96

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

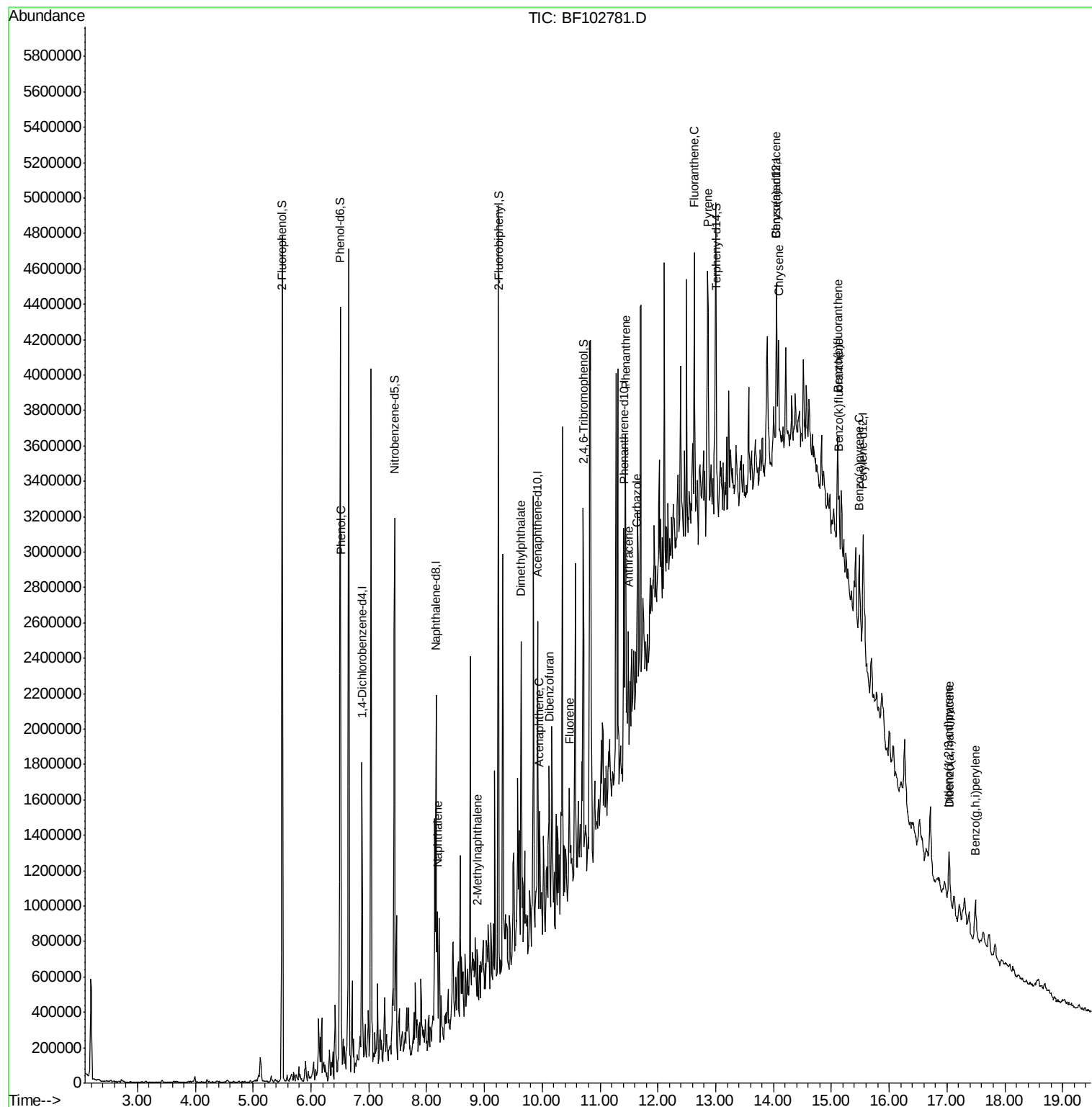
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020618\
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ALS Vial : 11 Sample Multiplier: 1

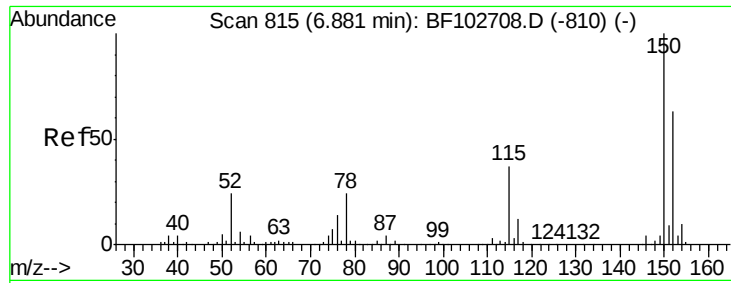
Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

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Quant Time: Feb 06 15:52:27 2018
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

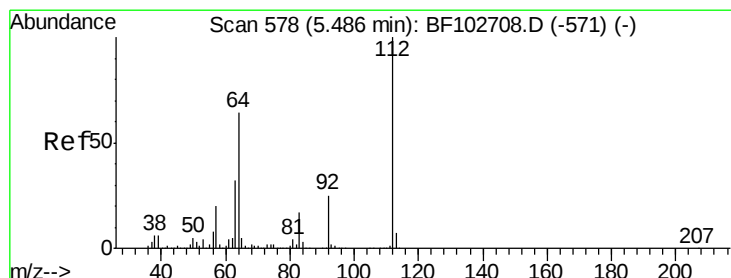
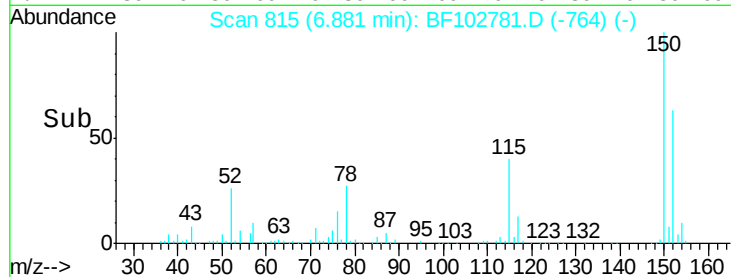
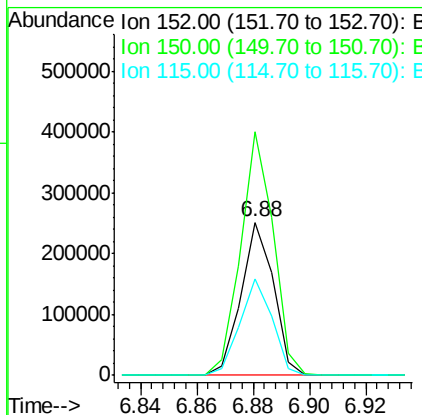
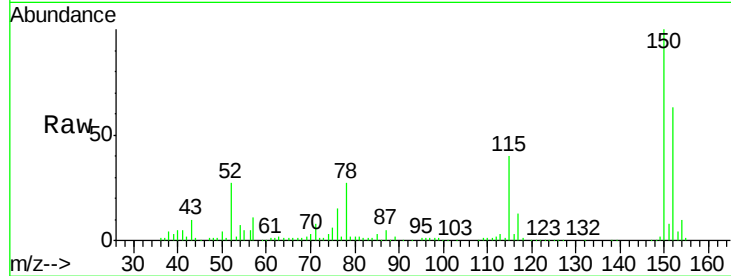
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	124.6	186.8
115	63.3	50.1	75.1

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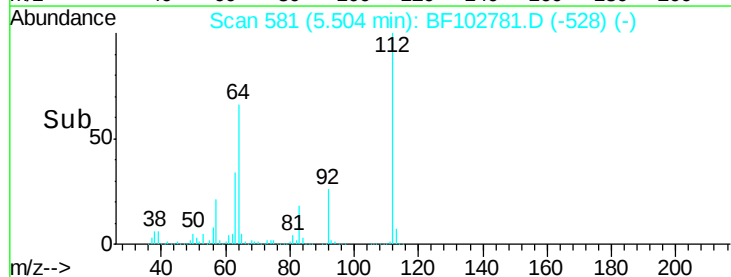
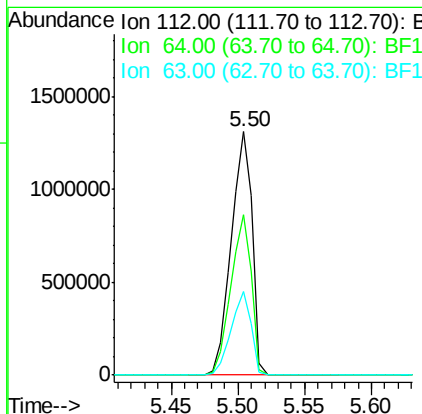
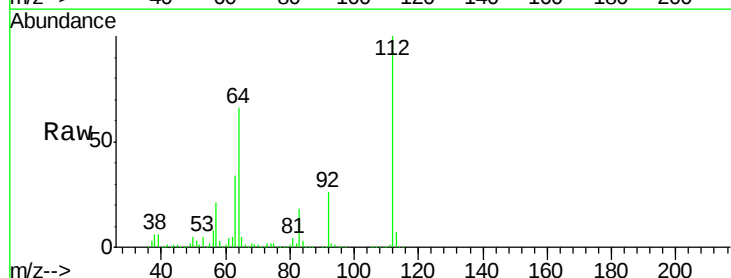
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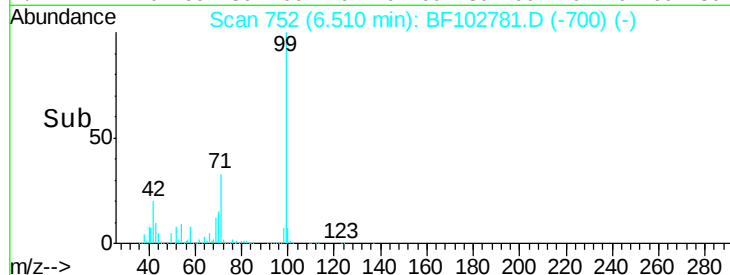
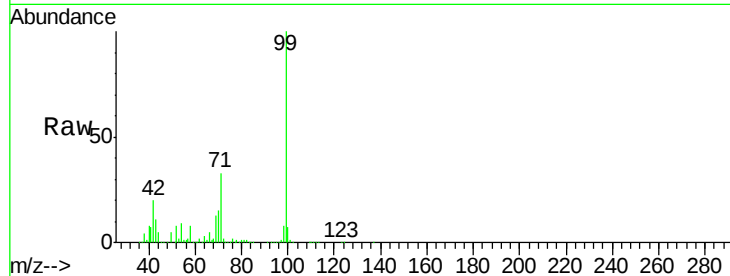


#5

2-Fluorophenol
Concen: 109.879 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	47.9	71.9
63	34.3	23.7	35.5





#7

Phenol-d6

Concen: 107.793 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tot Ion: 99 Resp: 1708788

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

71 33.4 25.4 38.0

Instrument :

BNA_F

ClientSampleId :

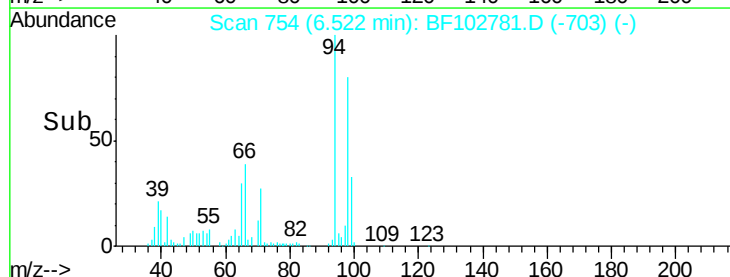
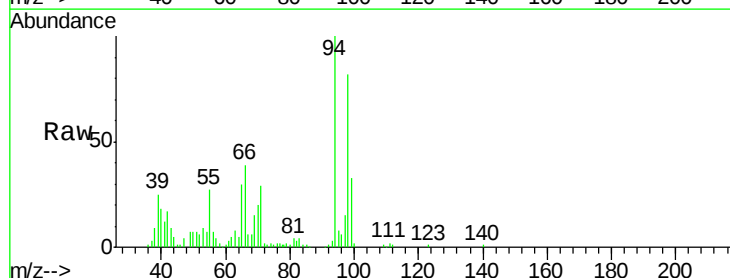
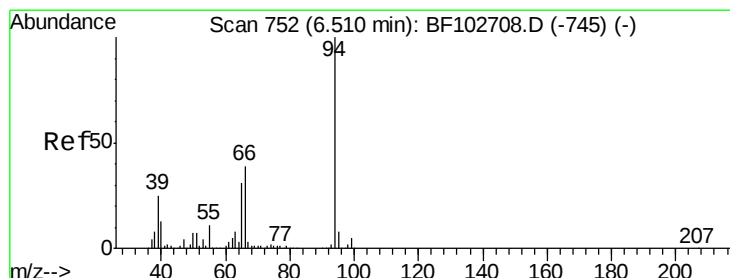
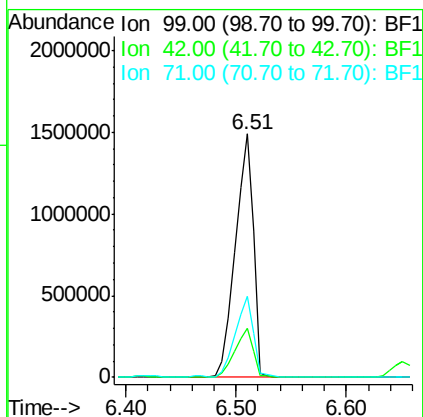
8-SAN-9-WW(4-6)

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#10

Phenol

Concen: 2.852 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

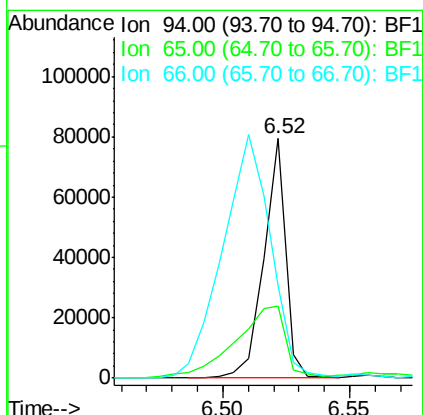
Tgt Ion: 94 Resp: 48448

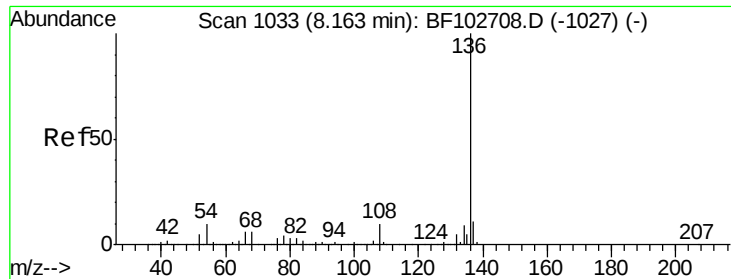
Ion Ratio Lower Upper

94 100

65 29.9 7.9 47.9

66 38.7 16.2 56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

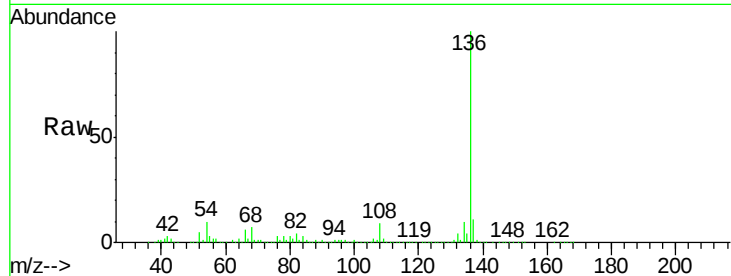
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	10.4	6.6	9.8
68	7.0	5.0	7.4

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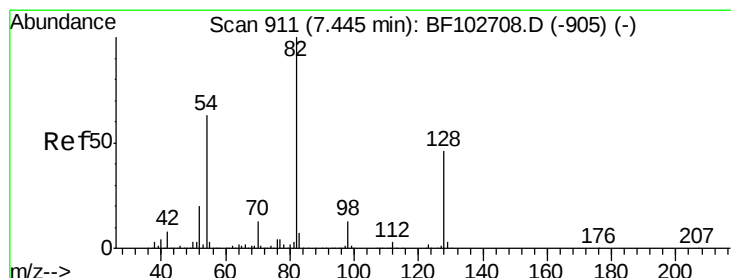
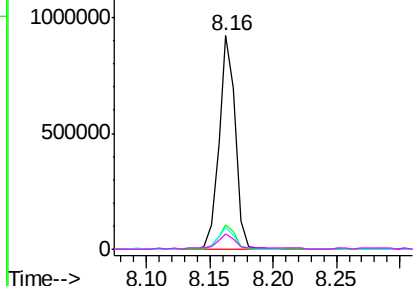
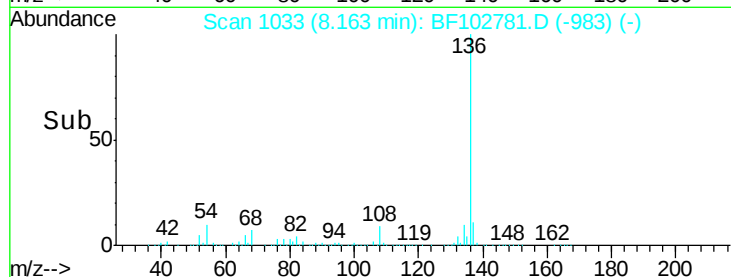


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 83.853 ng

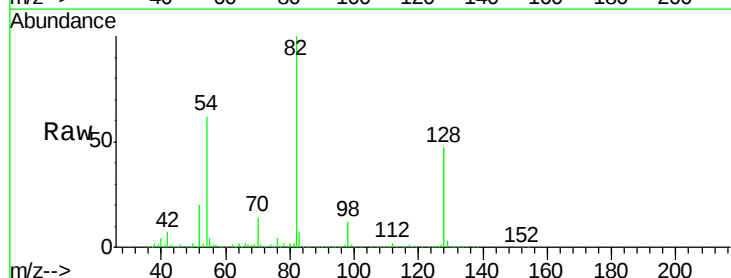
RT: 7.45 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

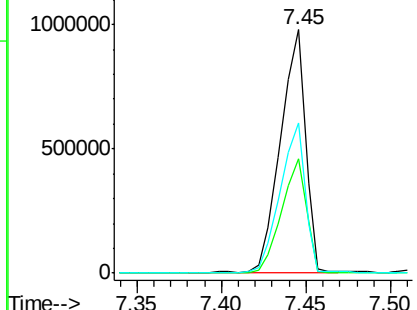
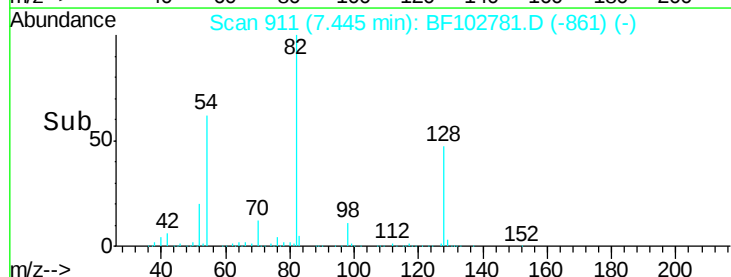
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.2	36.1	54.1
54	61.8	41.4	62.2

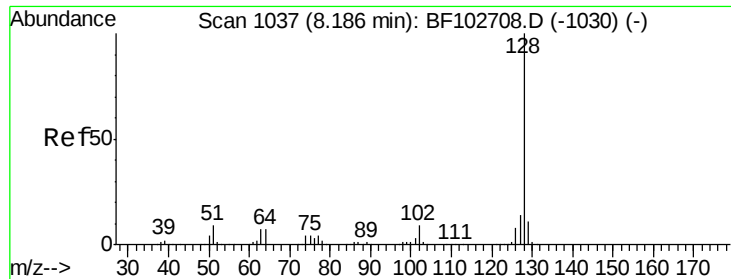


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





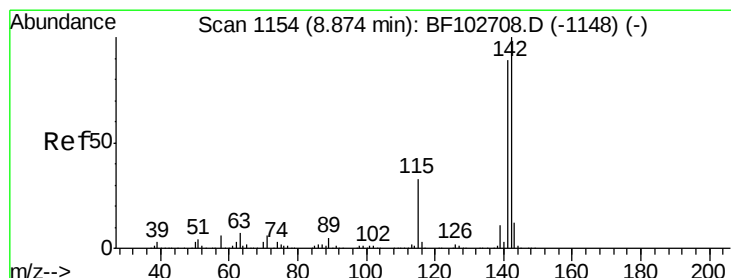
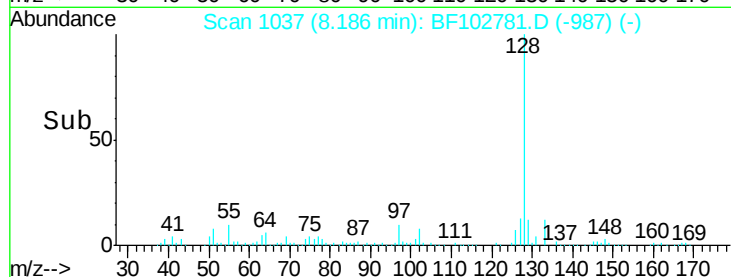
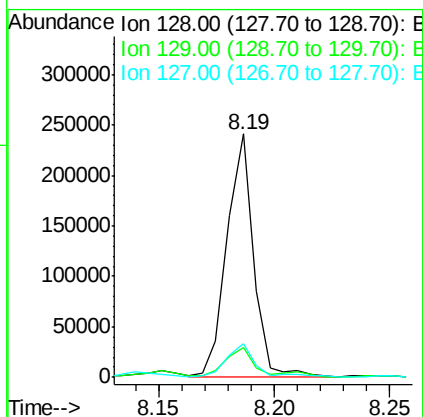
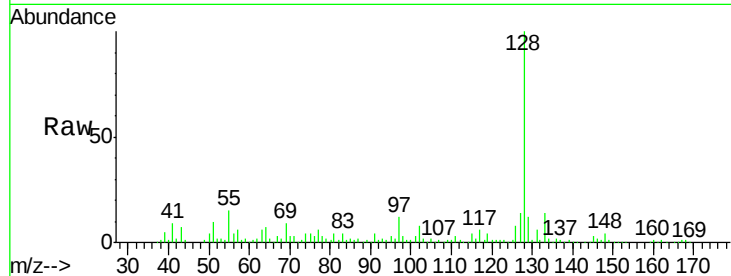
#31
Naphthalene
Concen: 4.759 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	13.7	10.9	16.3

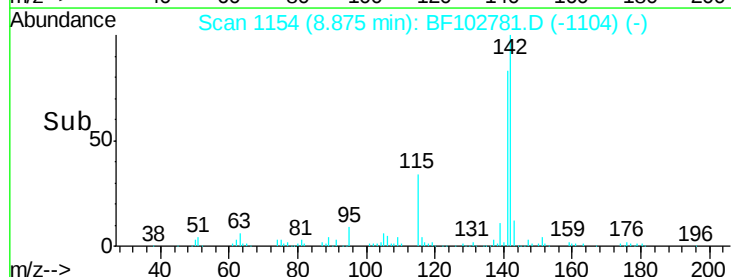
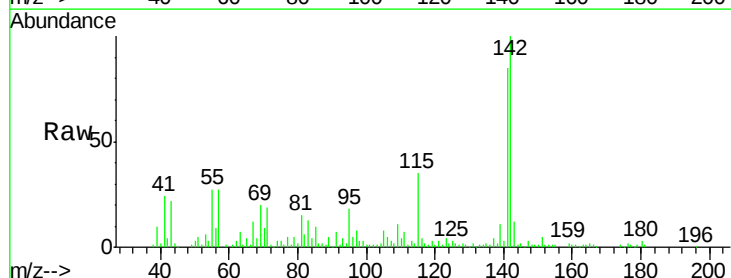
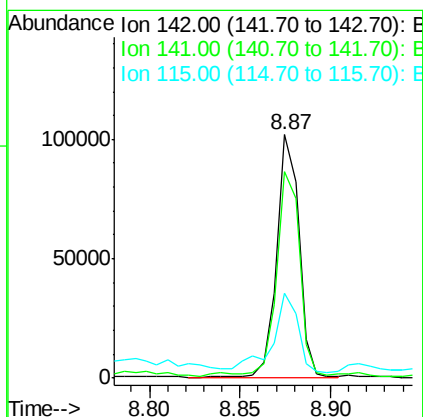
Manual Integrations
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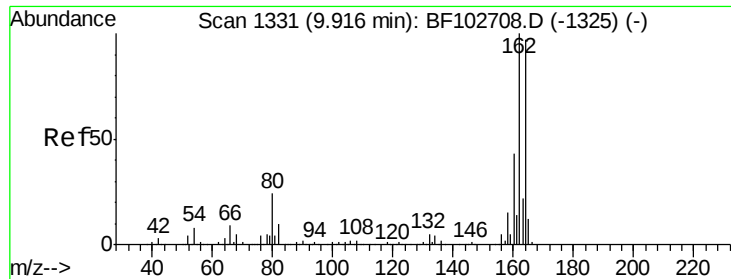
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#37
2-Methylnaphthalene
Concen: 3.339 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.7	70.8	106.2
115	34.9	26.1	39.1





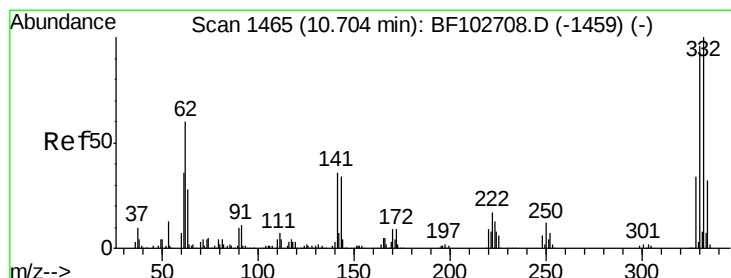
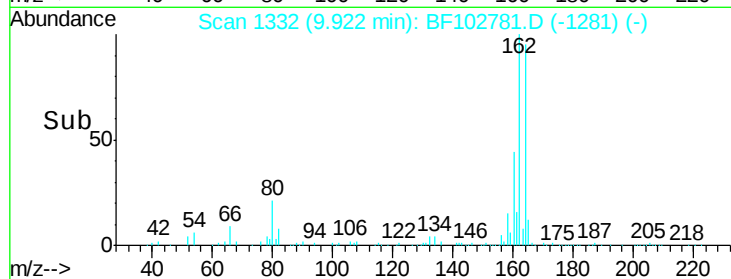
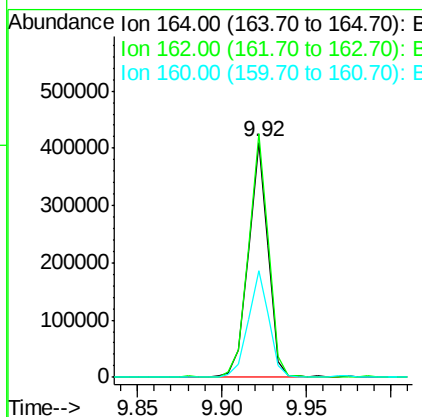
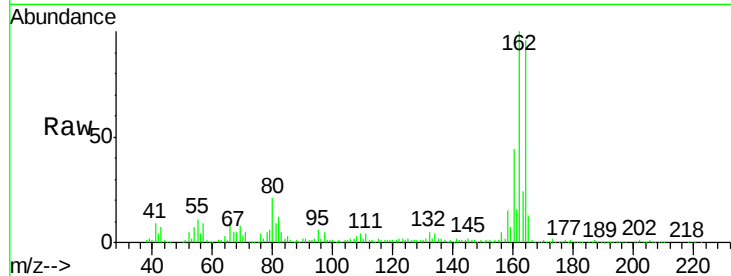
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.00 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.6	86.1	129.1	
160	45.6	38.3	57.5	

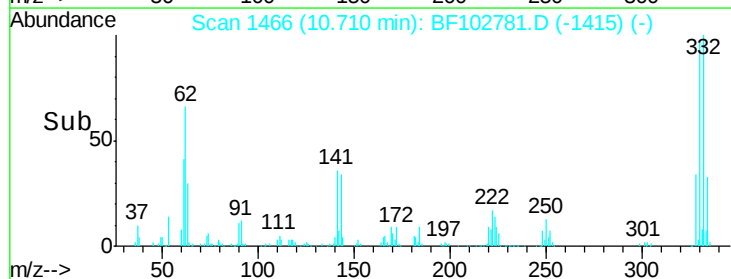
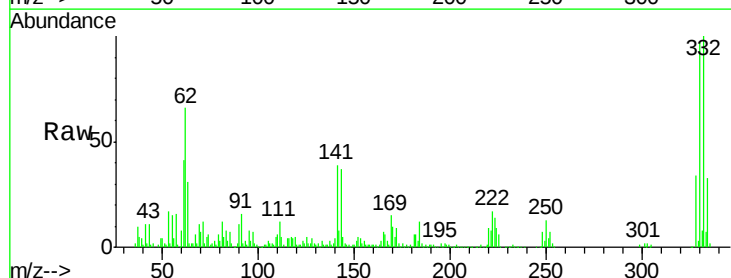
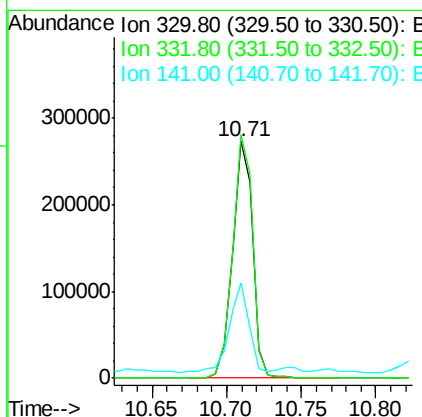
Manual Integrations
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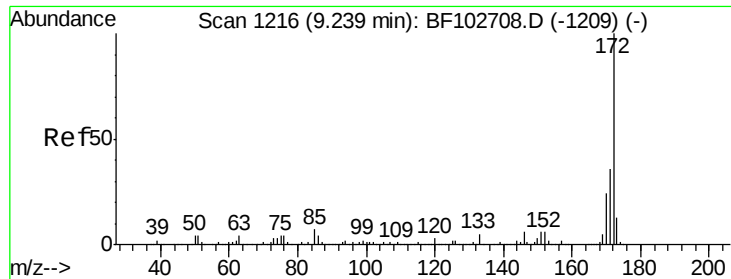
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#41
2,4,6-Tribromophenol
Concen: 97.142 ng
RT: 10.71 min Scan# 1466
Delta R.T. 0.00 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.2	77.0	115.6	
141	36.6	29.9	44.9	





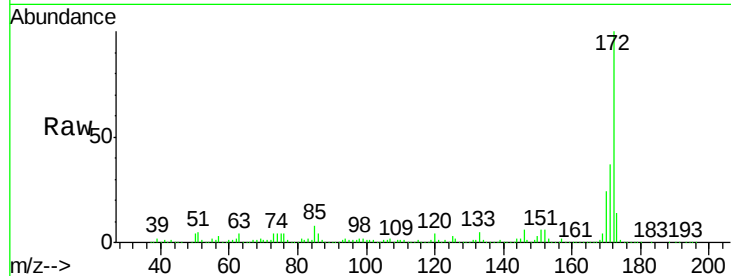
#44
2-Fluorobiphenyl
Concen: 74.281 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.7	44.5
170	24.4	19.6	29.4

Manual Integrations
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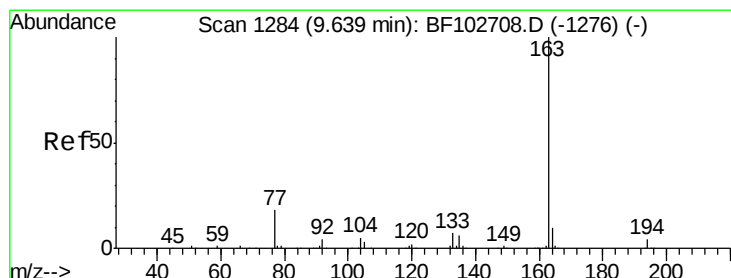
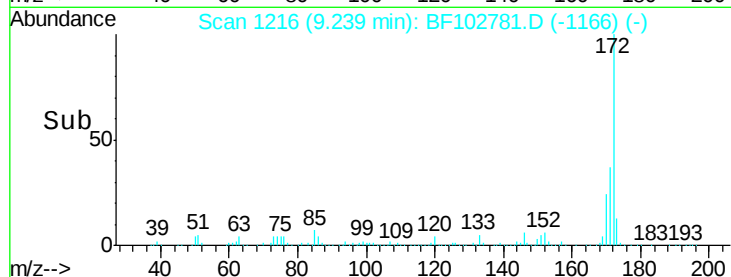
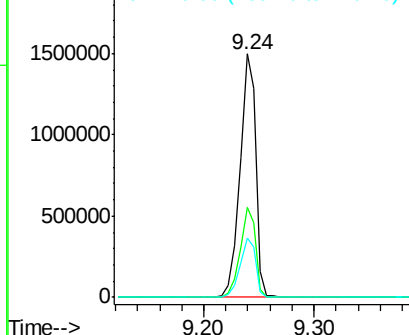


Abundance

Ion 172.00 (171.70 to 172.70): E

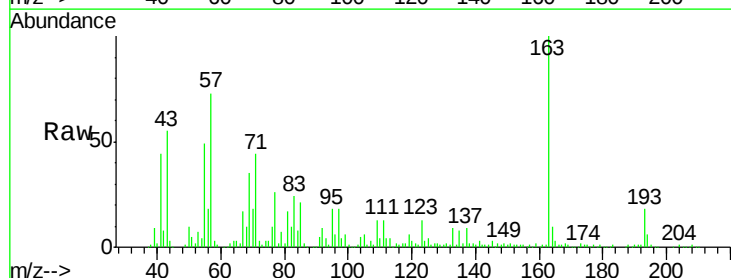
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Dimethylphthalate
Concen: 7.491 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.8	2.7	4.1#
164	10.1	8.2	12.2

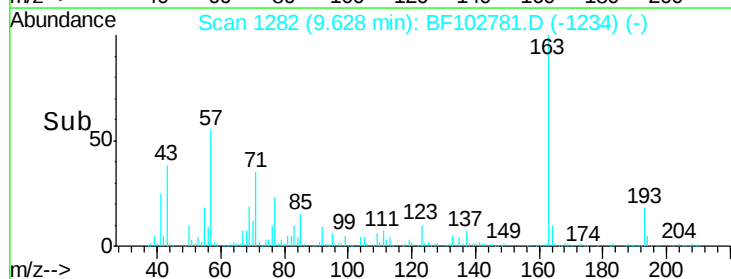
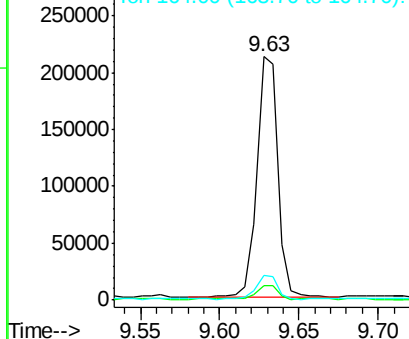


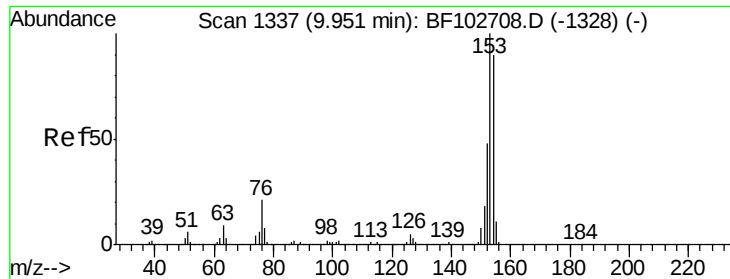
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 5.263 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

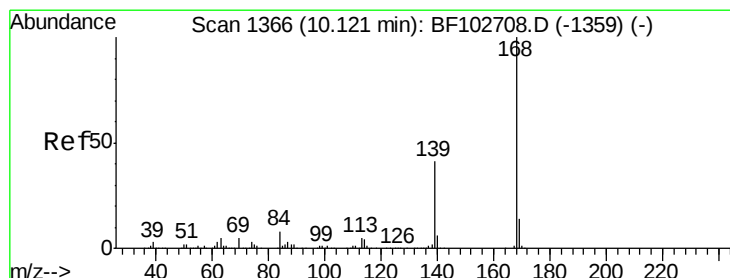
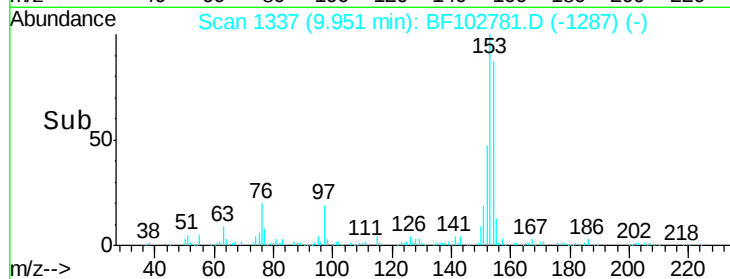
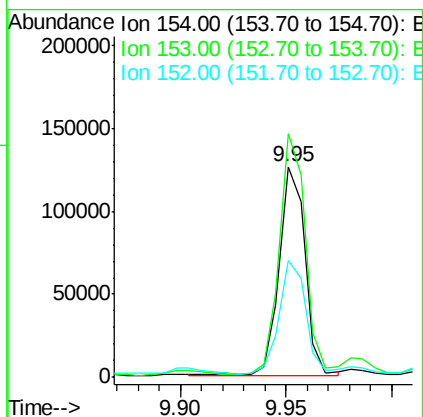
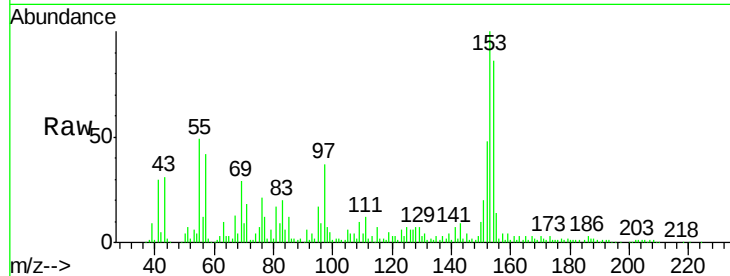
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:	154	Resp:	108400
Ion Ratio	Lower	Upper	
154	100		
153	115.6	91.2	136.8
152	55.5	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 2.733 ng

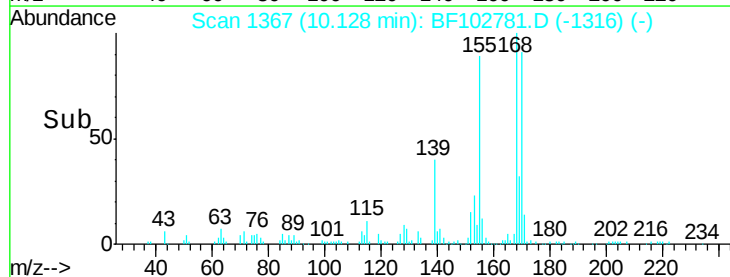
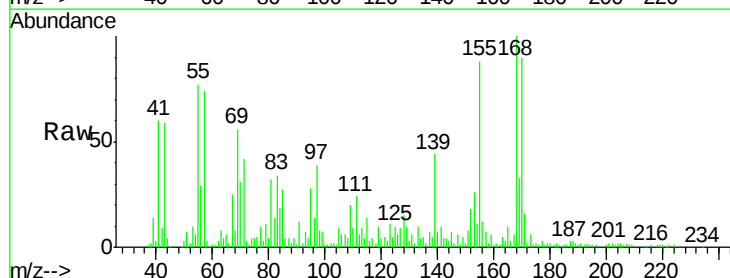
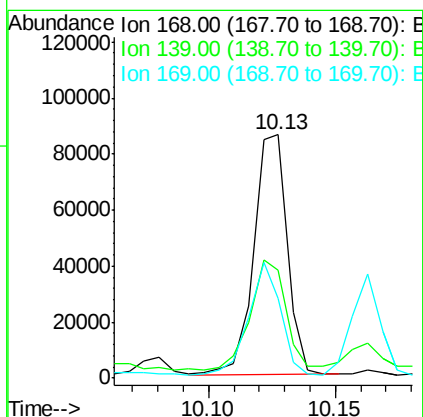
RT: 10.13 min Scan# 1367

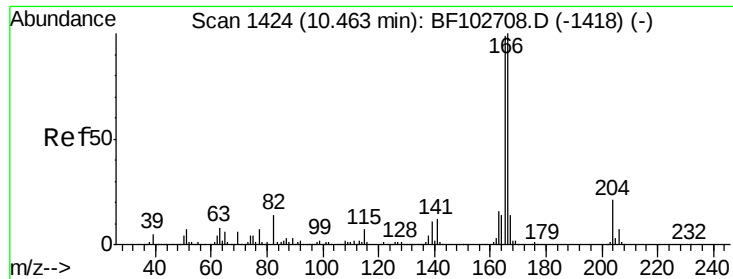
Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:	168	Resp:	79331
Ion Ratio	Lower	Upper	
168	100		
139	44.4	30.1	45.1
169	32.7	10.9	16.3#





#57

Fluorene

Concen: 5.812 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

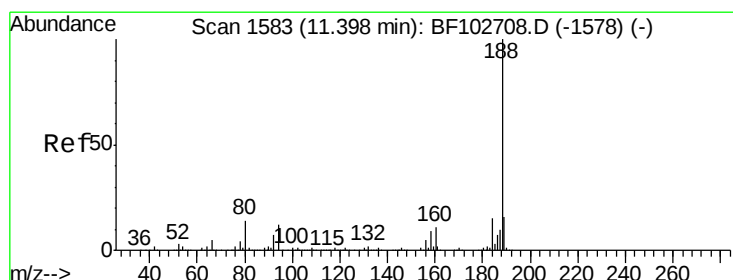
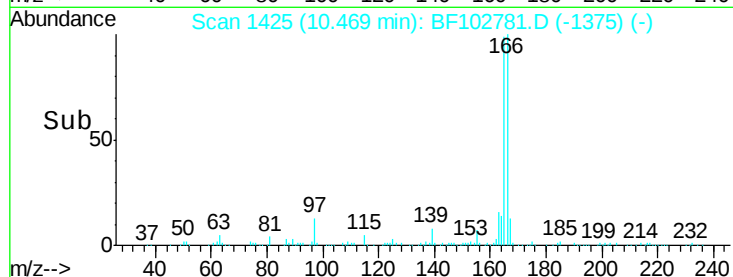
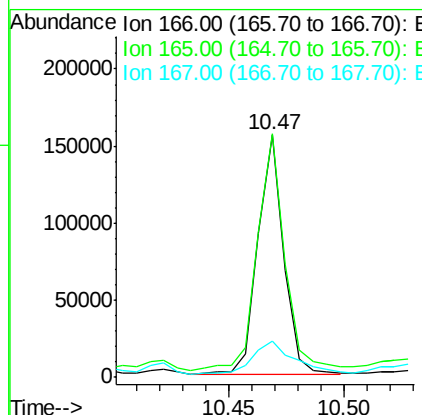
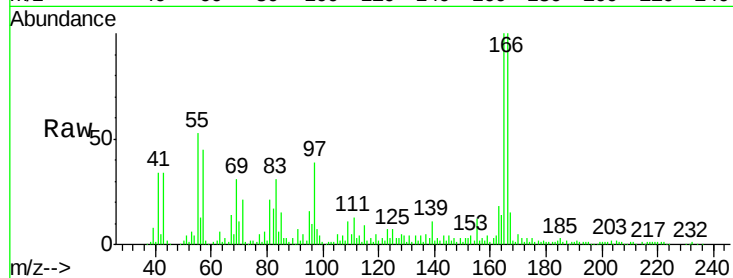
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:	166	Resp:	122735
Ion Ratio	Lower	Upper	
166	100		
165	100.3	79.8	119.8
167	14.9	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

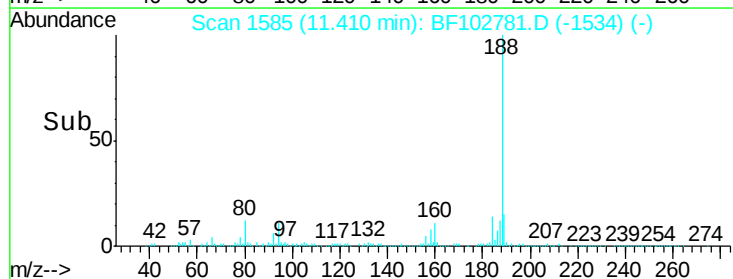
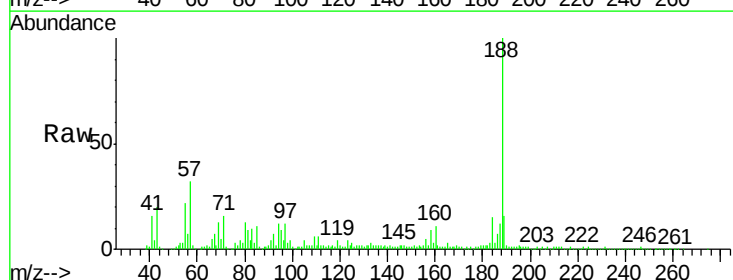
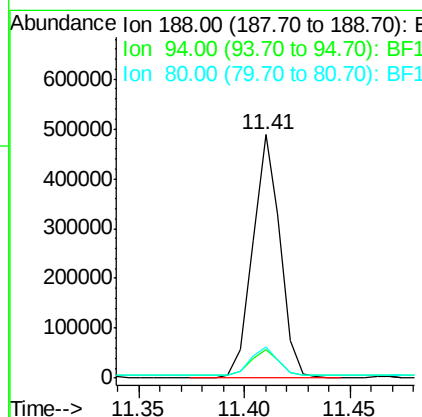
RT: 11.41 min Scan# 1585

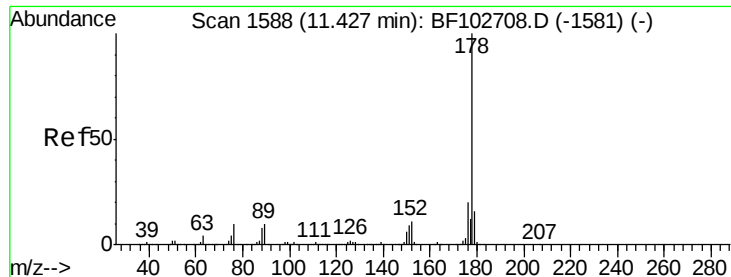
Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:	188	Resp:	435703
Ion Ratio	Lower	Upper	
188	100		
94	11.9	8.5	12.7
80	12.9	9.2	13.8





#70

Phenanthrene

Concen: 32.953 ng

RT: 11.44 min Scan# 1590

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

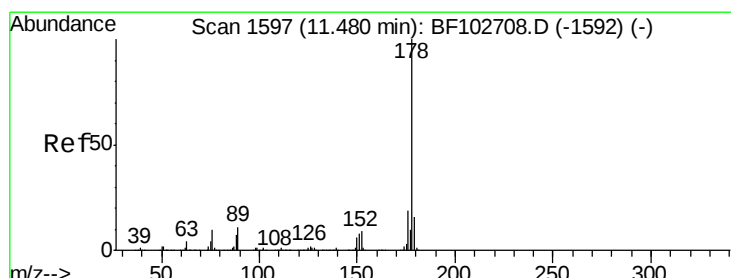
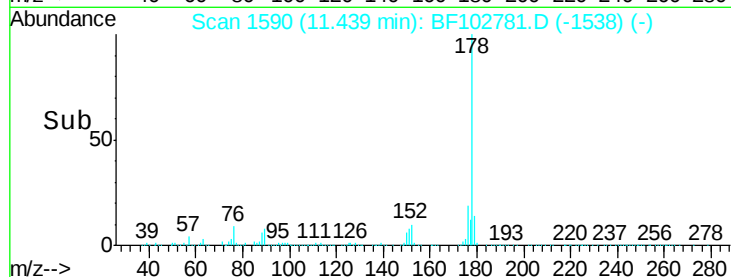
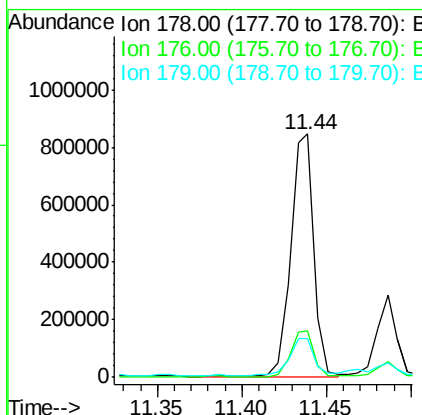
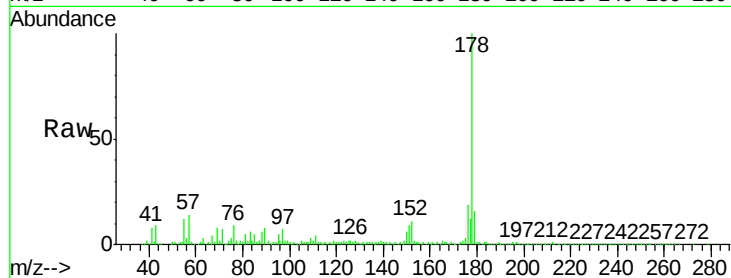
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:178	Resp:	799634
Ion Ratio	Lower	Upper
178	100	
176	19.0	15.8 23.8
179	15.8	13.0 19.6

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#71

Anthracene

Concen: 8.927 ng

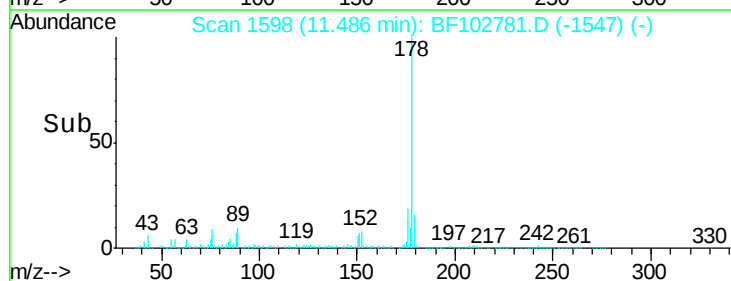
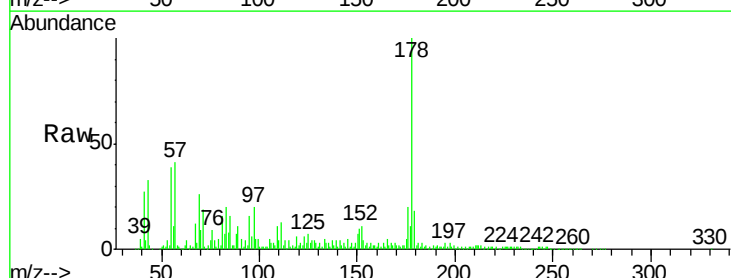
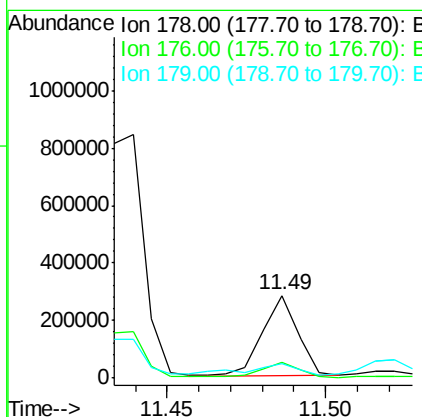
RT: 11.49 min Scan# 1598

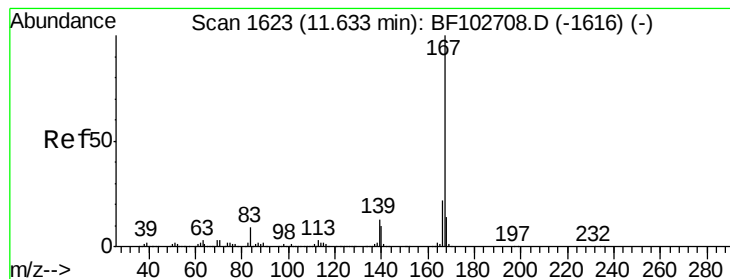
Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:178	Resp:	220326
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.4 23.2
179	17.6	12.6 19.0





#72

Carbazole

Concen: 4.791 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

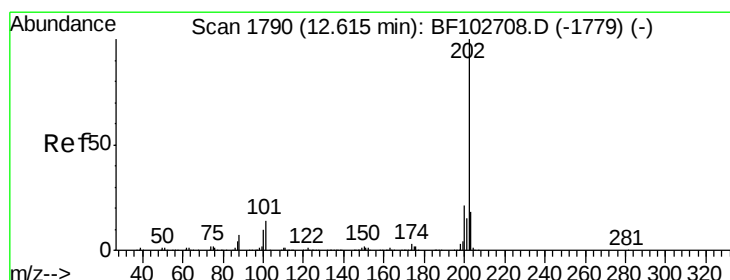
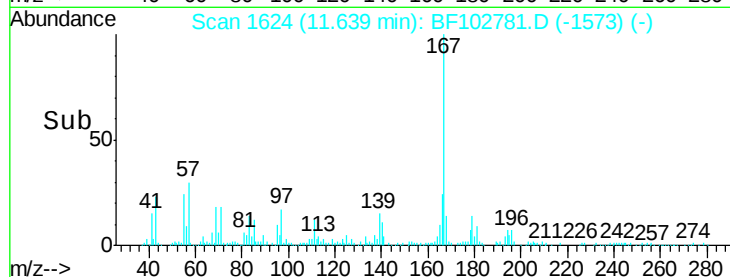
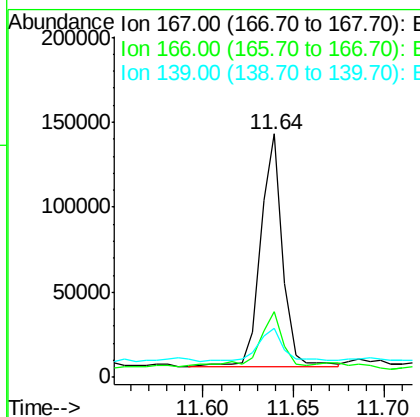
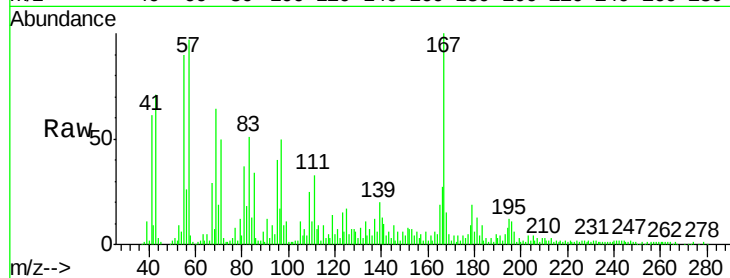
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:	167	Resp:	115831
Ion Ratio	Lower	Upper	
167	100		
166	26.8	17.6	26.4#
139	20.2	10.9	16.3#

Manual Integrations
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#74

Fluoranthene

Concen: 31.196 ng

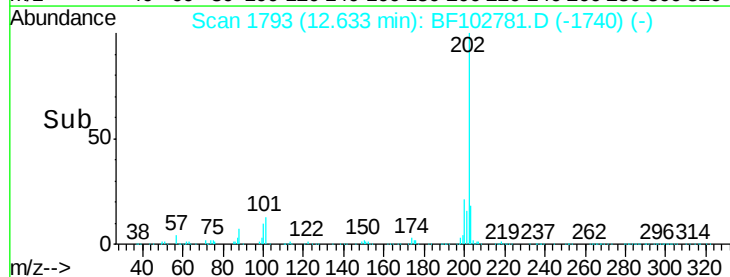
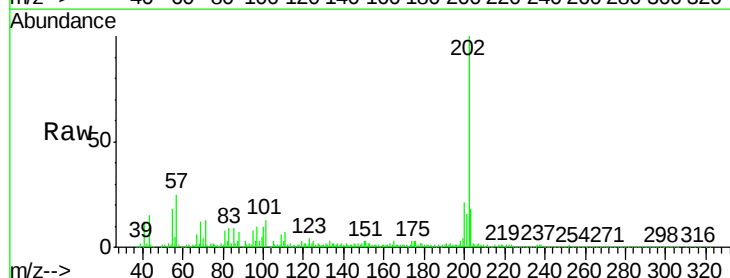
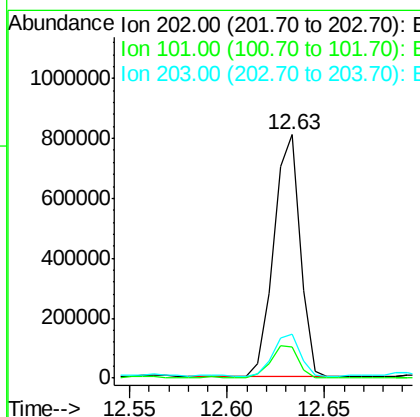
RT: 12.63 min Scan# 1793

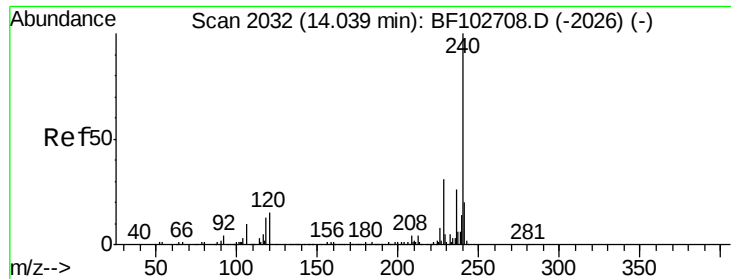
Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:	202	Resp:	761637
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	34.1
203	18.2	0.0	38.1





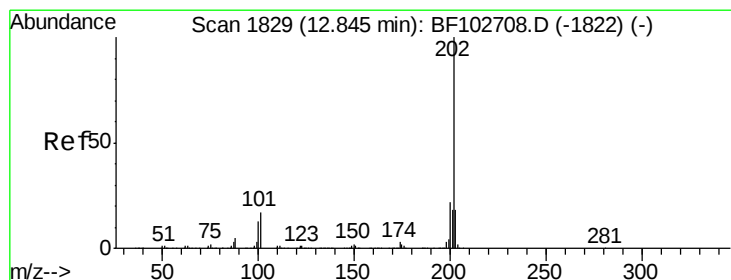
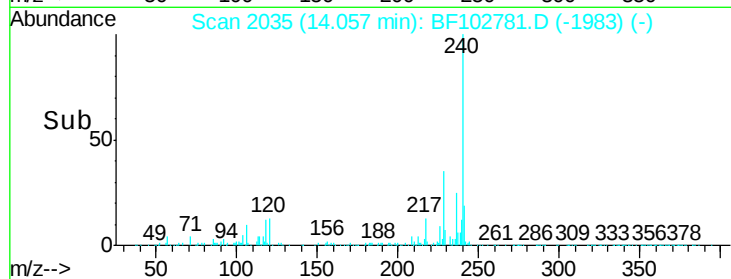
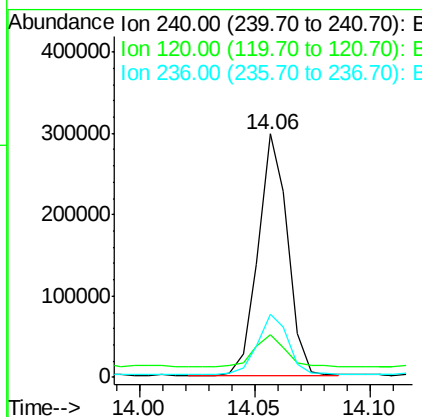
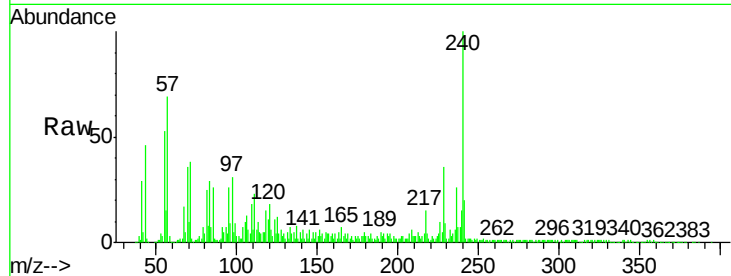
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
240	100		
120	17.7	9.5	14.3
236	26.0	20.7	31.1

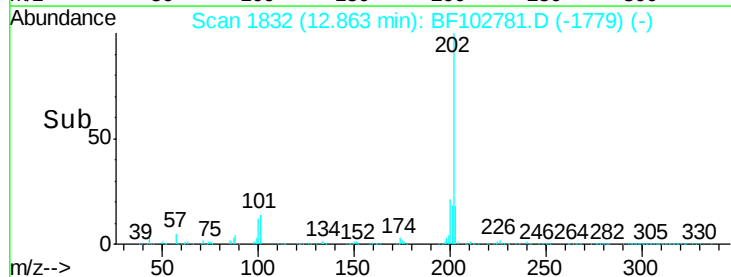
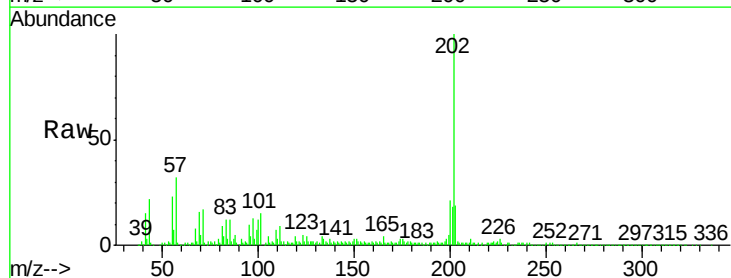
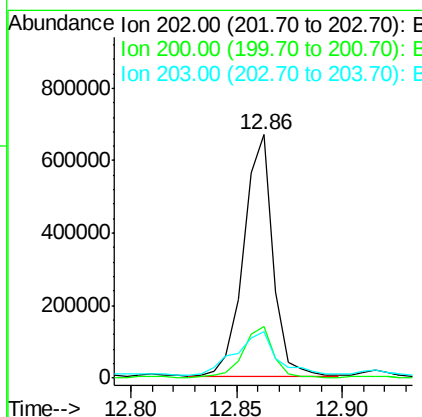
Manual Integrations
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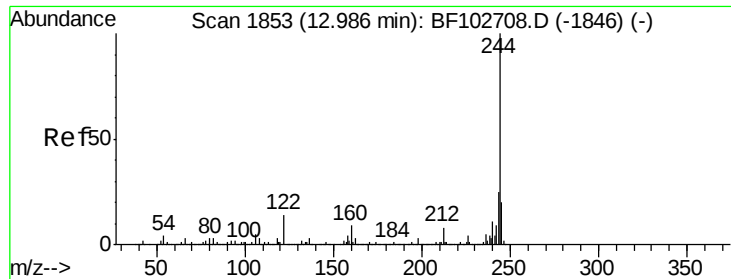
Sohil
2/7/2018 4:16:16 PM



#77
Pyrene
Concen: 30.854 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	19.3	14.3	21.5





#78

Terphenyl-d14

Concen: 69.722 ng

RT: 13.00 min Scan# 1856

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:244 Resp: 778488

Ion Ratio Lower Upper

244 100

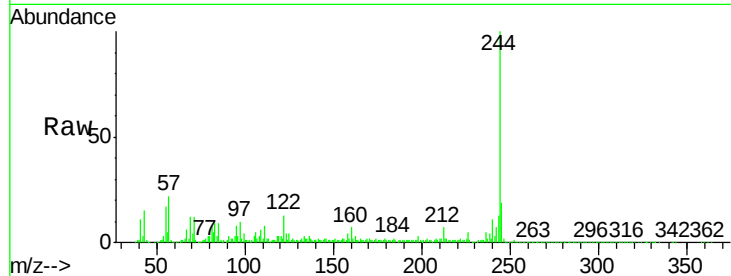
212 7.0 5.4 8.0

122 12.8 11.0 16.4

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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

1000000

800000

600000

400000

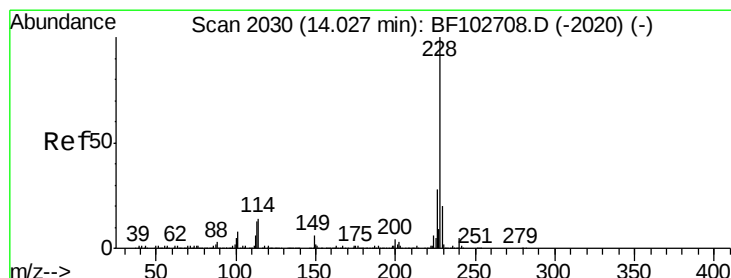
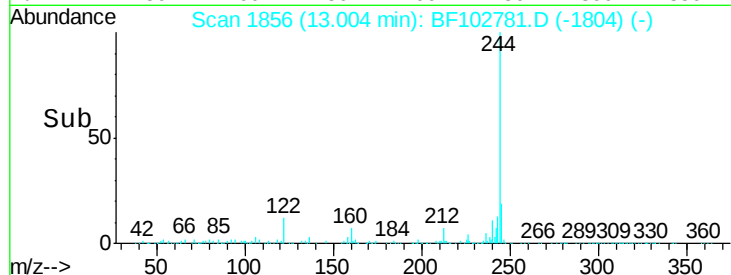
200000

0

13.00

12.95 13.00 13.05

Time-->



#80

Benzo(a)anthracene

Concen: 18.880 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

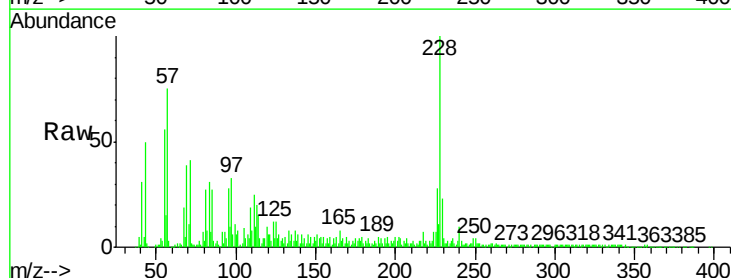
Tgt Ion:228 Resp: 313920

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

229 22.8 15.8 23.6



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

400000

300000

200000

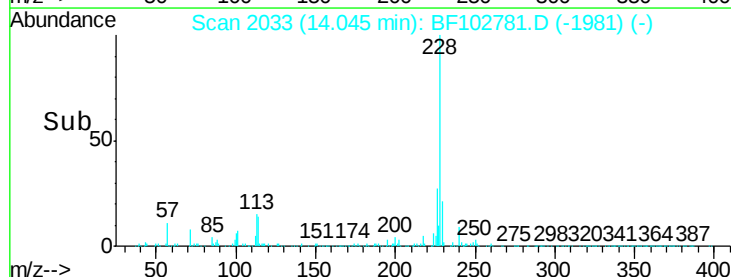
100000

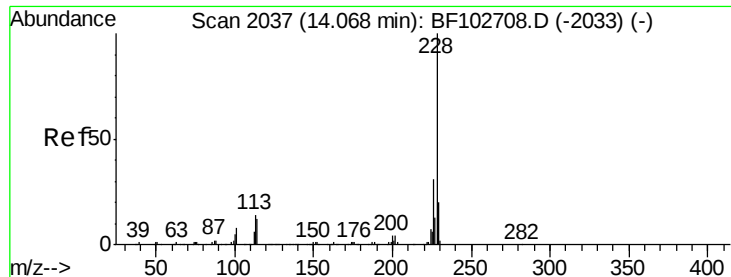
0

14.04

13.90 14.00

Time-->





#82

Chrysene

Concen: 18.718 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Instrument :

BNA_F

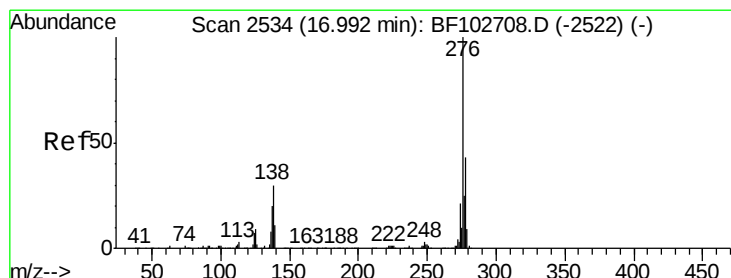
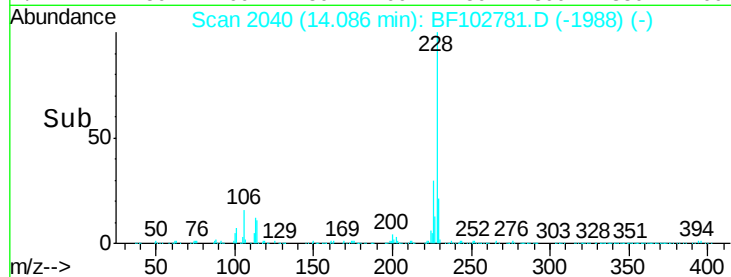
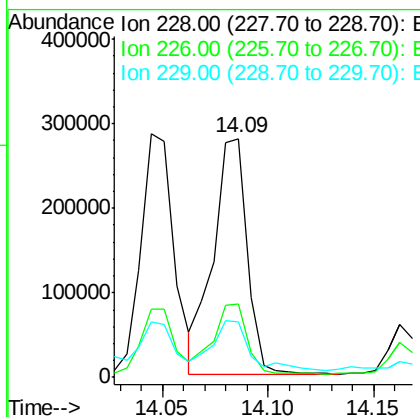
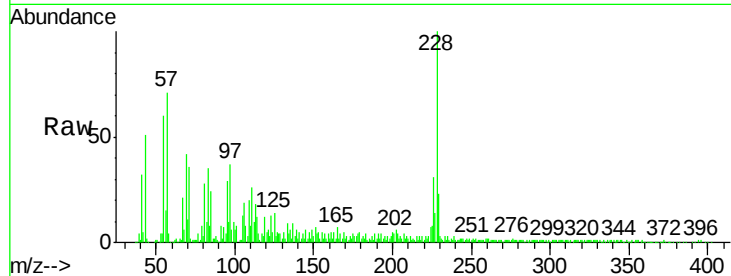
ClientSampleId :

8-SAN-9-WW(4-6)

Tot Ion:	228	Resp:	313732
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.0	37.6
229	23.3	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 15.036 ng

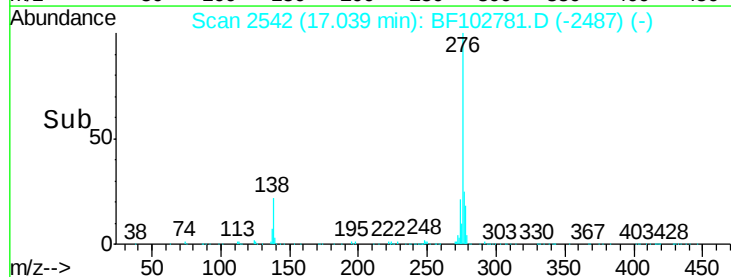
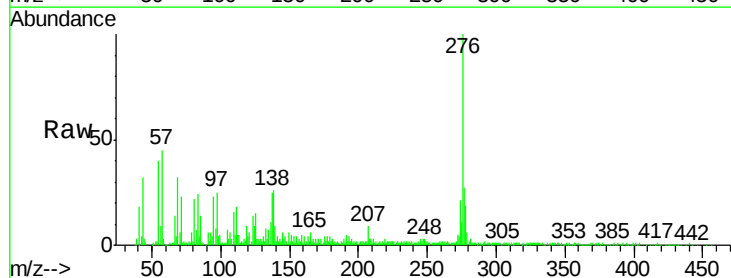
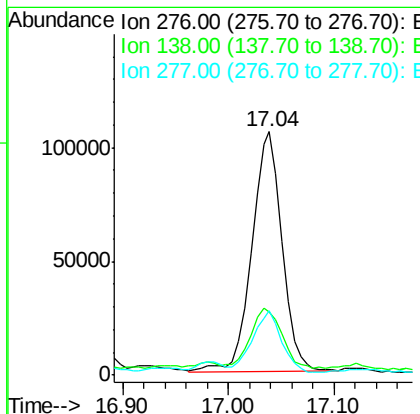
RT: 17.04 min Scan# 2542

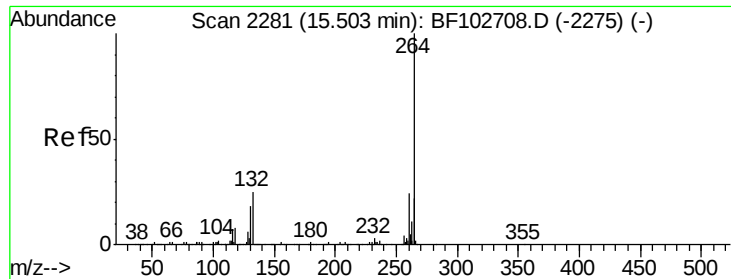
Delta R.T. 0.02 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:	276	Resp:	209022
Ion Ratio	Lower	Upper	
276	100		
138	26.3	25.0	37.6
277	24.3	20.1	30.1





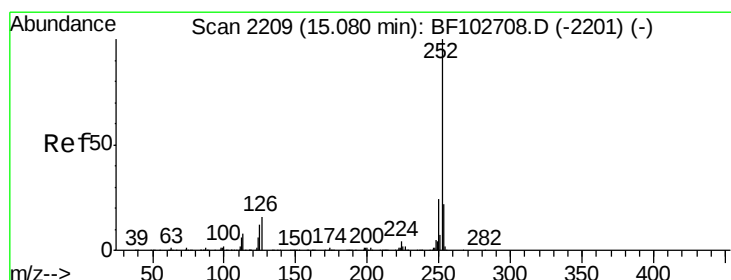
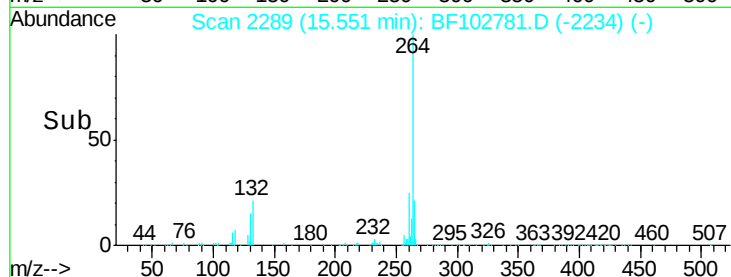
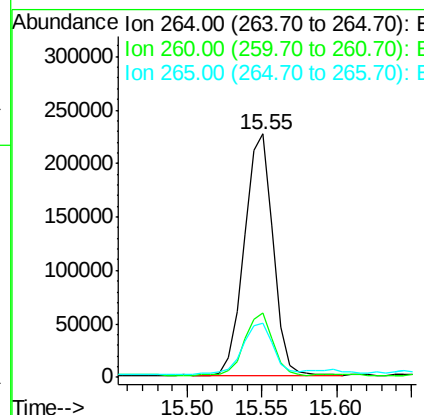
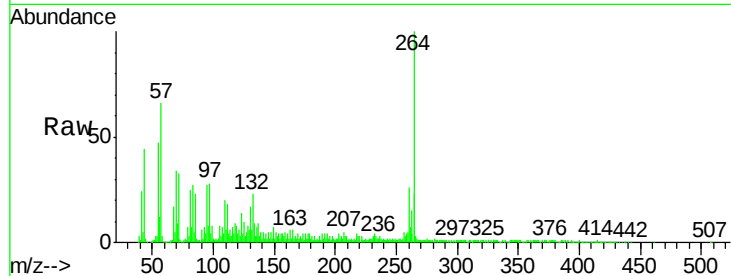
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. 0.02 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.3	19.2	28.8
265	22.5	17.5	26.3

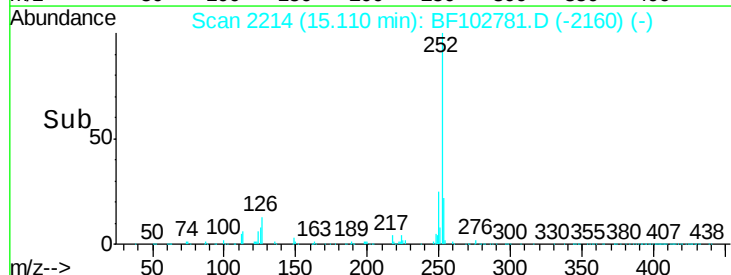
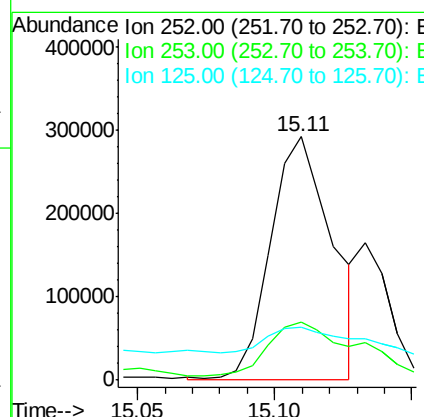
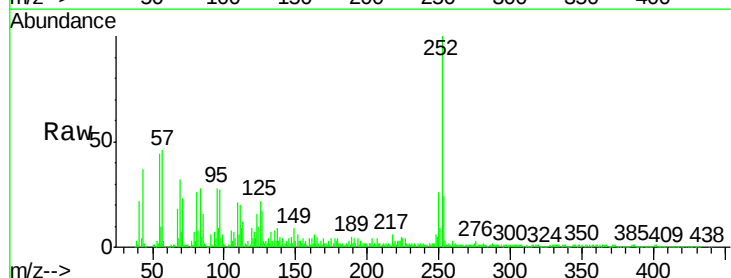
Manual Integrations
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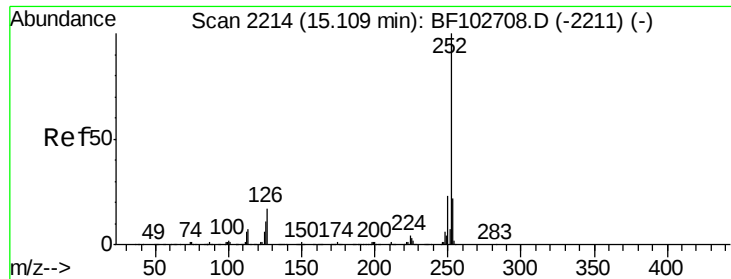
Sohil
2/7/2018 4:16:16 PM



#87
Benzo(b)fluoranthene
Concen: 23.400 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.02 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.6
125	21.9	9.0	13.6





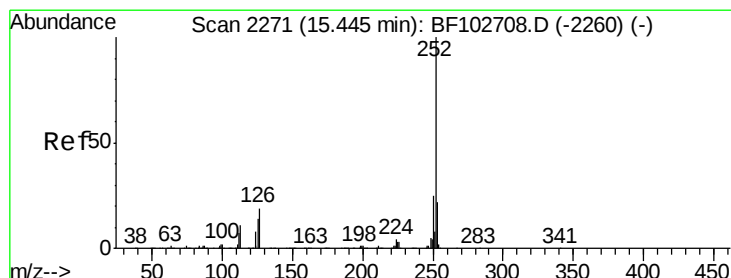
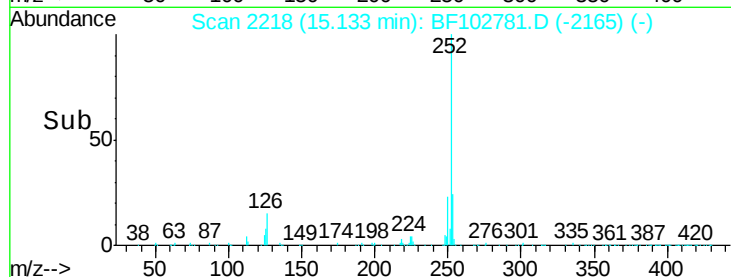
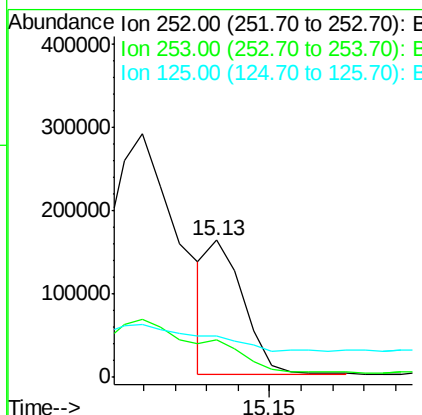
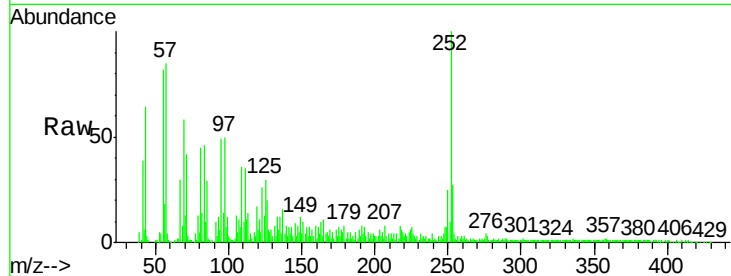
#88
Benzo(k)fluoranthene
Concen: 6.755 ng/mL
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.0	17.9	26.9#
125	29.8	10.2	15.2#

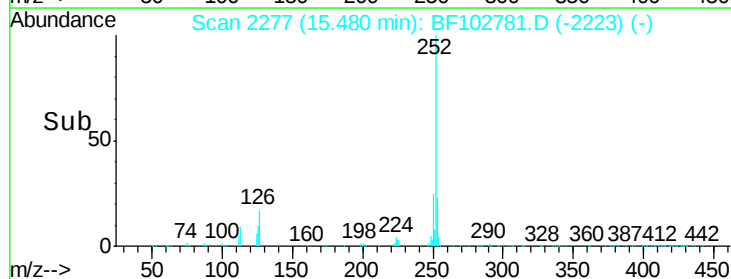
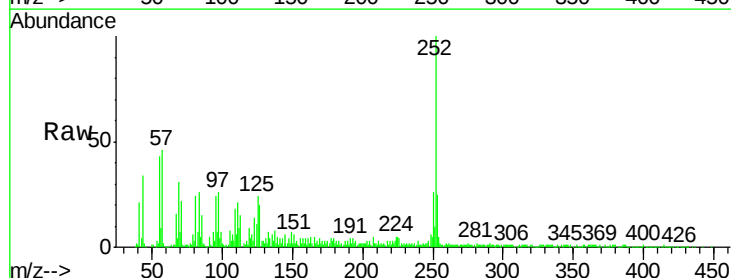
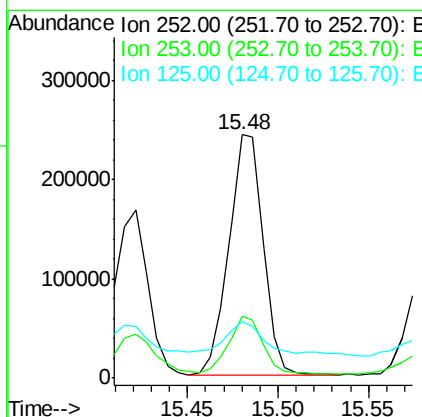
Manual Integrations
APPROVED

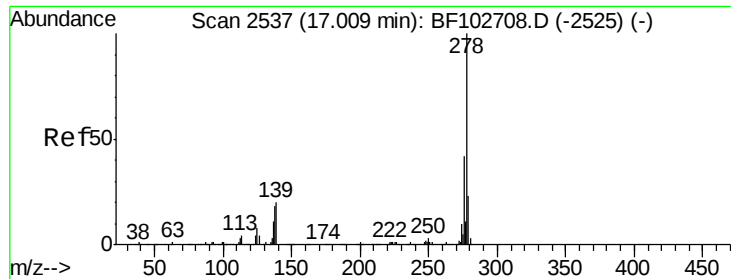
Sohil
2/7/2018 4:16:16 PM



#89
Benzo(a)pyrene
Concen: 18.263 ng/mL
RT: 15.48 min Scan# 2277
Delta R.T. 0.02 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.1	25.7
125	23.5	9.8	14.6#





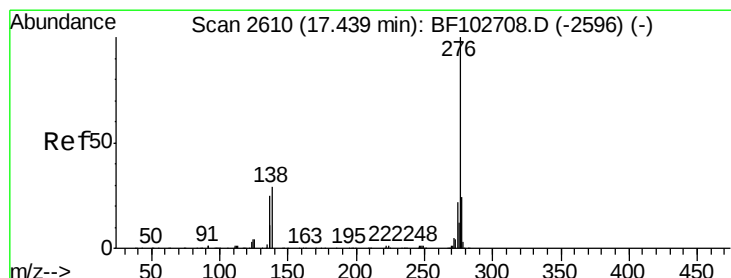
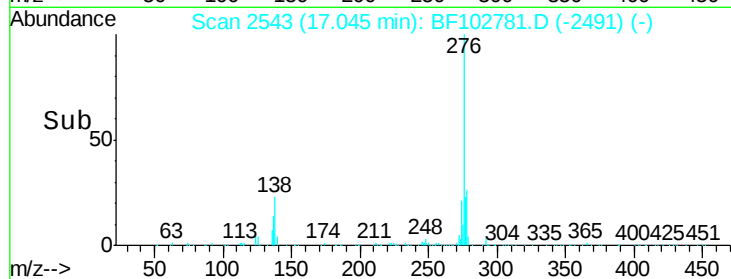
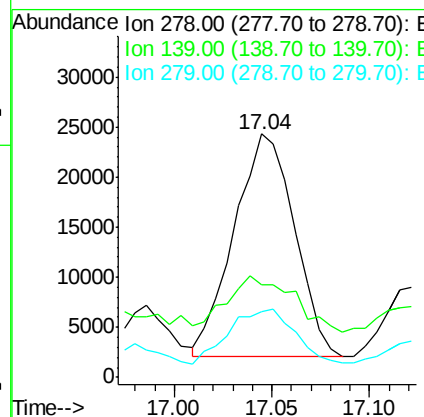
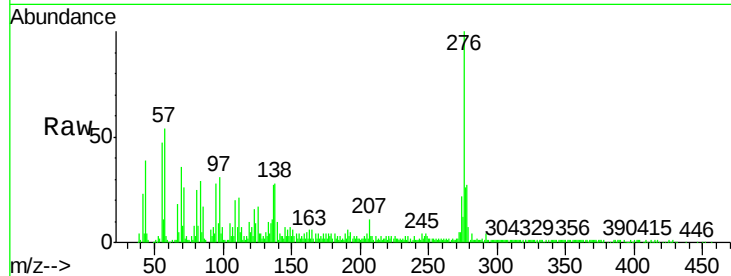
#90
Dibenzo(a,h)anthracene
Concen: 3.352 ng
RT: 17.04 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Instrument :
BNA_F
ClientSampleId :
8-SAN-9-WW(4-6)

Tot Ion	Ratio	Lower	Upper
278	100		
139	38.0	15.9	23.9#
279	27.0	19.0	28.4

Manual Integrations
APPROVED

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2/7/2018 4:16:16 PM



#91
Benzo(g,h,i)perylene
Concen: 13.714 ng
RT: 17.49 min Scan# 2619
Delta R.T. 0.02 min
Lab File: BF102781.D
Acq: 6 Feb 2018 13:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	29.3	21.8	32.8

