

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041918\
 Data File : BF104633.D
 Acq On : 19 Apr 2018 17:38
 Operator : JU/SJ
 Sample : J2157-11
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-041818

Manual Integrations
 APPROVED

Sohil
 4/20/2018 3:05:14 PM

Quant Time: Apr 20 01:08:17 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 19 14:44:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	137861	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	566627	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	249130	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	406513	20.00	ng	0.00
75) Chrysene-d12	13.98	240	266050	20.00	ng	0.00
86) Perylene-d12	15.45	264	245724	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	822332	91.21	ng	0.00
7) Phenol-d6	6.45	99	1024394	92.47	ng	0.00
23) Nitrobenzene-d5	7.37	82	636679	73.37	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	237790	92.01	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	920889	58.39	ng	0.00
78) Terphenyl-d14	12.92	244	688671	59.01	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.45	94	57455	4.888	ng	95
31) Naphthalene	8.10	128	166676	5.907	ng	99
37) 2-Methylnaphthalene	8.80	142	215002	11.780	ng	99
48) Acenaphthylene	9.70	152	122939	4.740	ng	97
49) Dimethylphthalate	9.56	163	171396	8.724	ng	99
51) Acenaphthene	9.87	154	73955	4.673	ng	98
54) Dibenzofuran	10.05	168	61403	2.784	ng	# 90
57) Fluorene	10.39	166	192055	11.964	ng	99
70) Phenanthrene	11.36	178	883366	39.021	ng	99
71) Anthracene	11.40	178	207908	9.035	ng	99
74) Fluoranthene	12.55	202	648603	27.422	ng	98
77) Pyrene	12.78	202	875317	44.386	ng	99
80) Benzo(a)anthracene	13.97	228	347582m	21.869	ng	
82) Chrysene	14.00	228	372758	22.833	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	114836	8.280	ng	94
87) Benzo(b)fluoranthene	15.02	252	286813m	18.481	ng	
88) Benzo(k)fluoranthene	15.04	252	92077m	6.284	ng	
89) Benzo(a)pyrene	15.39	252	257528	18.546	ng	96
90) Dibenzo(a,h)anthracene	16.90	278	34464	3.022	ng	# 71
91) Benzo(a,h,i)perylene	17.34	276	128744	11.652	ng	96

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

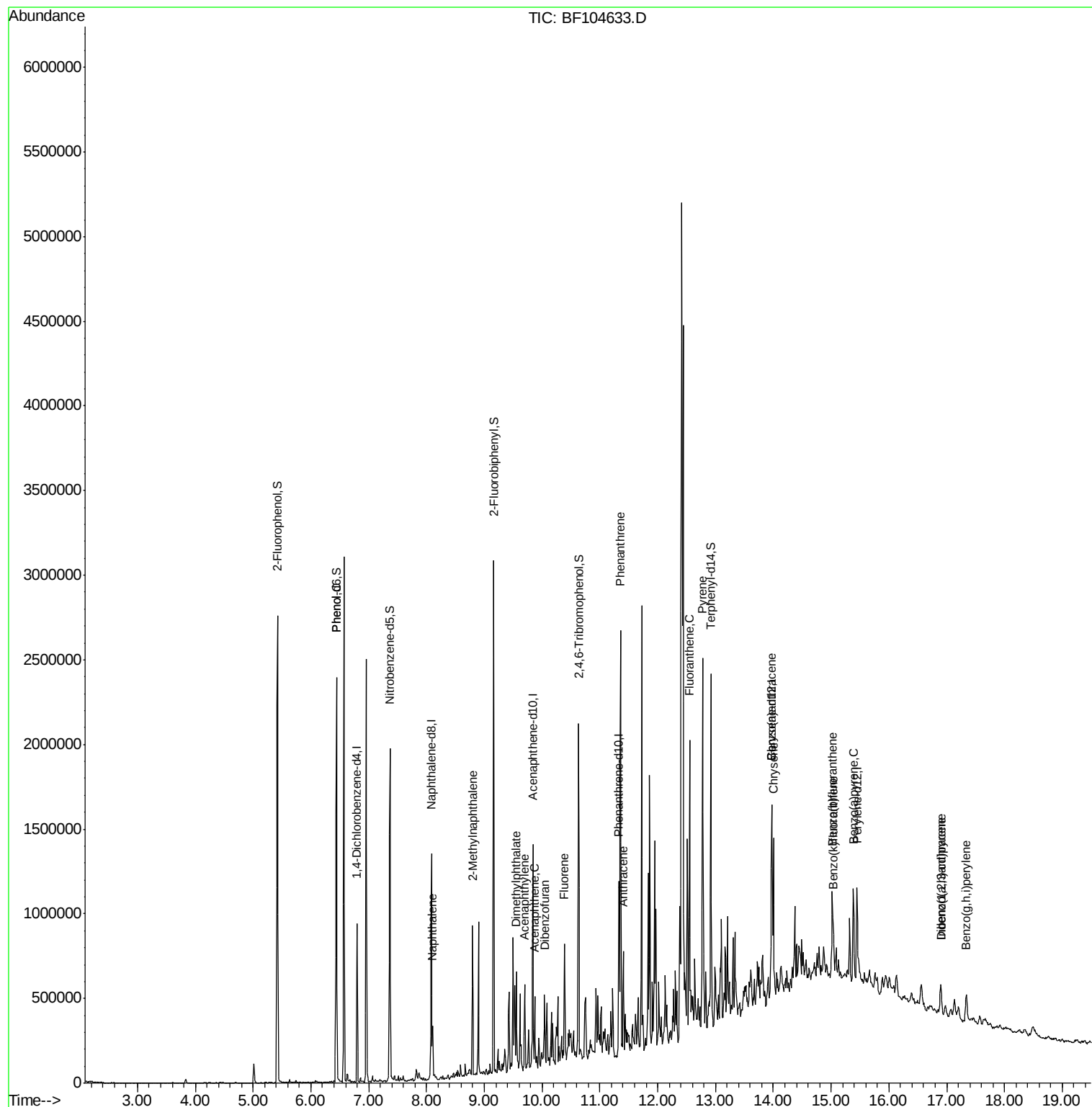
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041918\
Data File : BF104633.D
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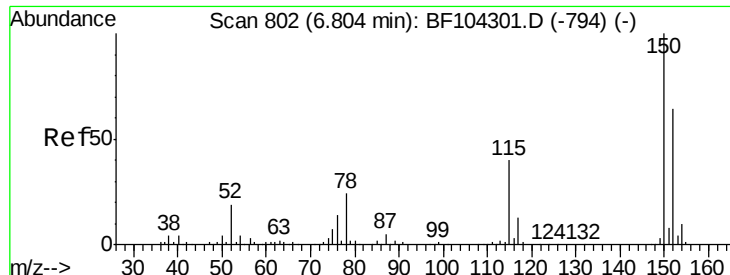
Instrument :
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CL-02-041818

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#1

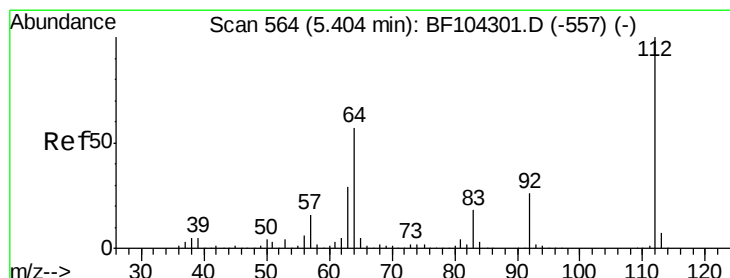
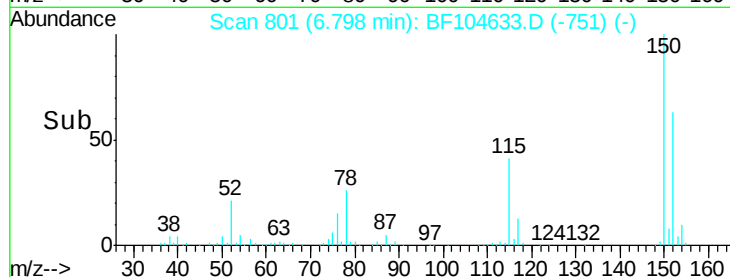
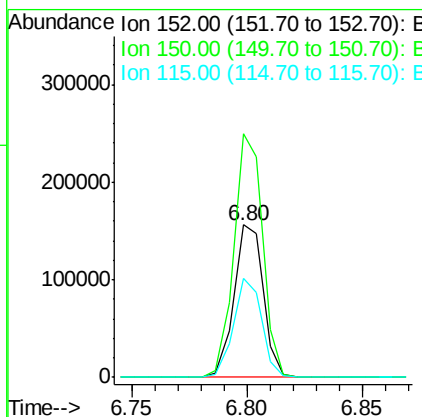
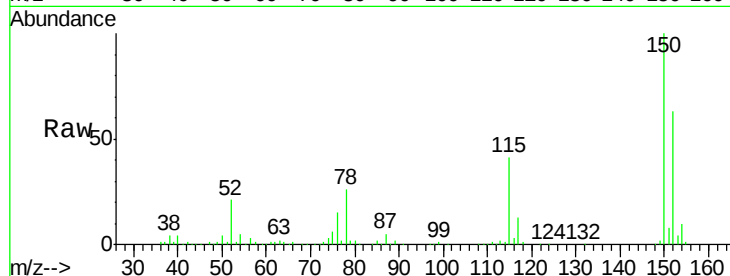
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-041818

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.6	124.6	186.8
115	65.1	50.1	75.1

Manual Integrations
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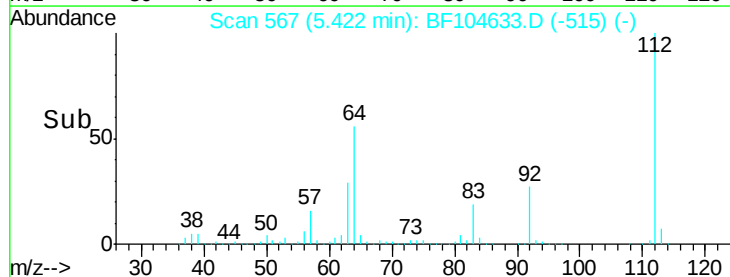
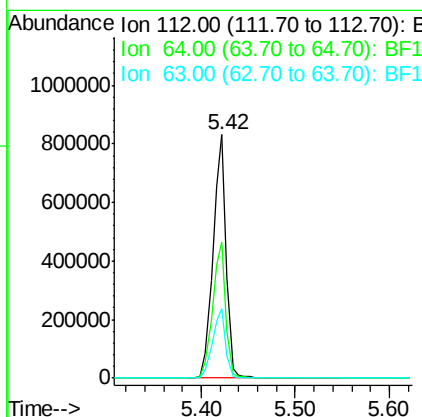
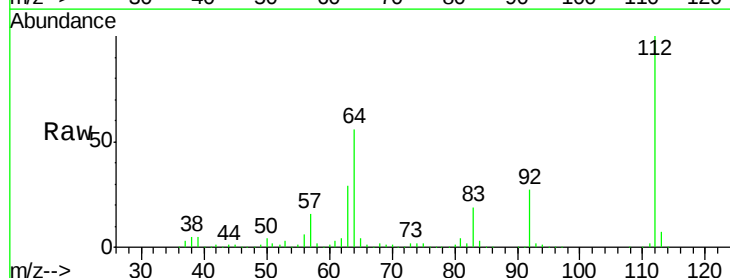
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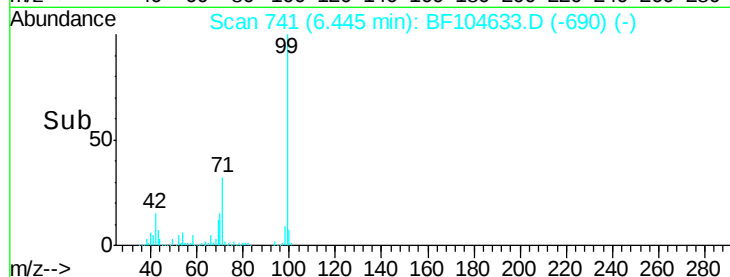
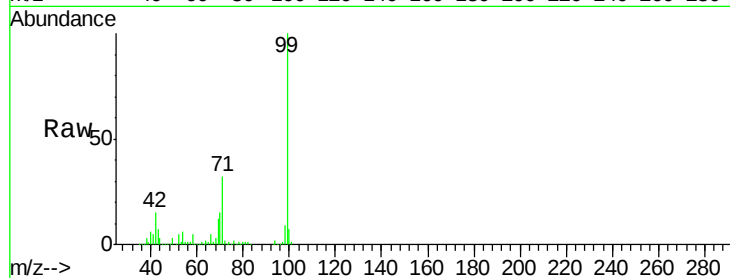
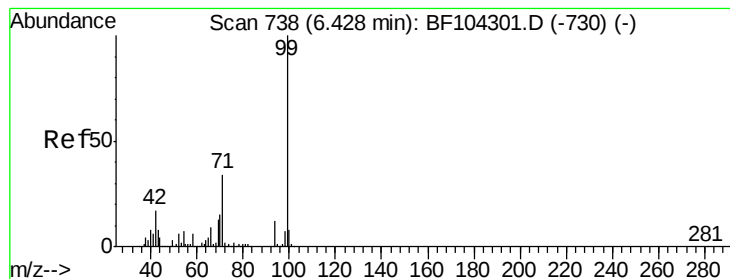


#5

2-Fluorophenol
 Concen: 91.207 ng
 RT: 5.42 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	47.9	71.9
63	28.6	23.7	35.5





#7

Phenol-d6

Concen: 92.472 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tot Ion:	99	Resp:	1024394
Ion	Ratio	Lower	Upper
99	100		
42	15.0	14.5	21.7
71	32.3	25.4	38.0

Instrument :

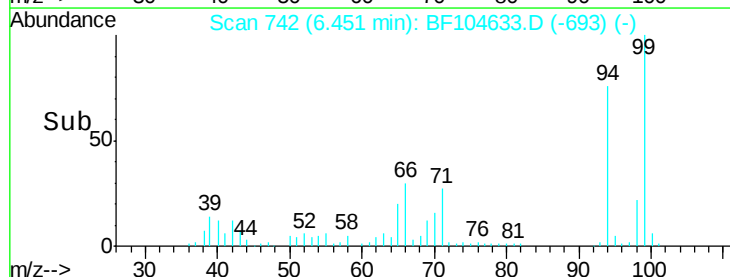
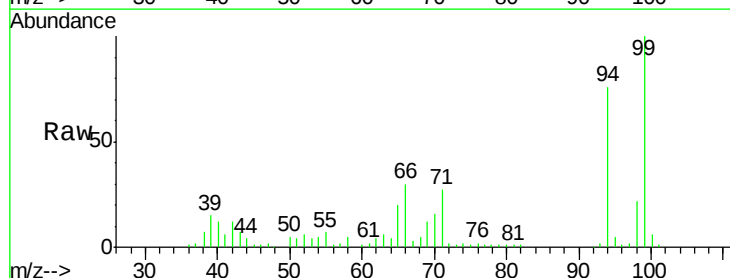
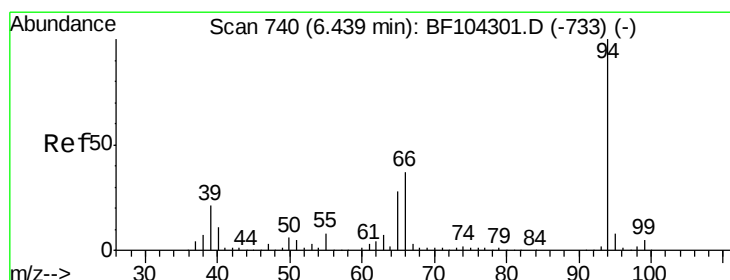
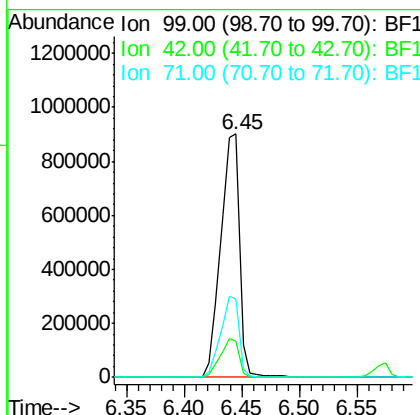
BNA_F

ClientSampleId :

CL-02-041818

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#10

Phenol

Concen: 4.888 ng

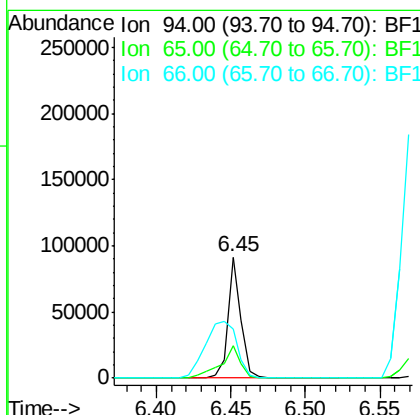
RT: 6.45 min Scan# 742

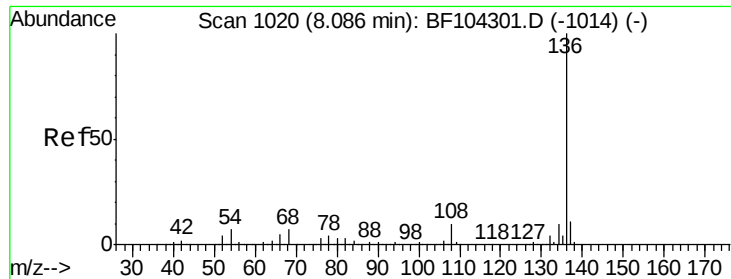
Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tgt Ion:	94	Resp:	57455
Ion	Ratio	Lower	Upper
94	100		
65	26.7	7.9	47.9
66	40.2	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

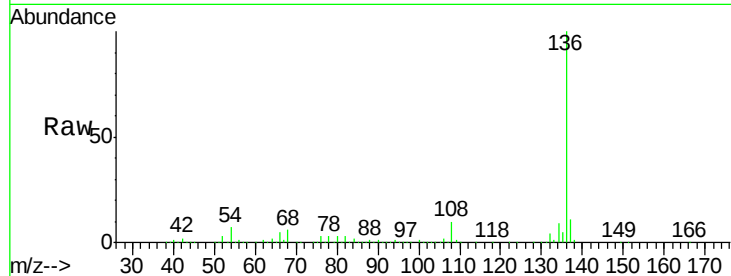
ClientSampleId :

CL-02-041818

Tot Ion	Ratio	Resp	Lower	Upper
136	100	566627		
137	10.9	8.9	13.3	
54	6.7	6.6	9.8	
68	6.1	5.0	7.4	

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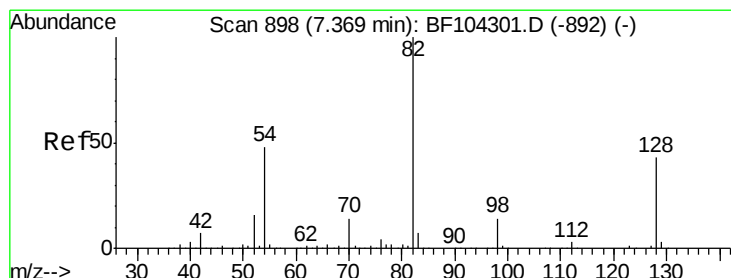
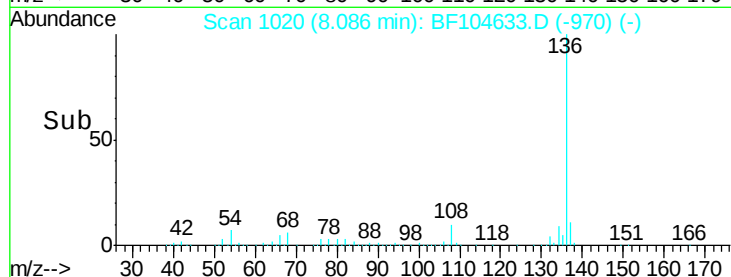
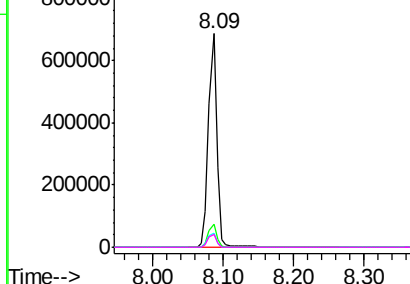


Abundance Ion 136.00 (135.70 to 136.70): E

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: 73.371 ng

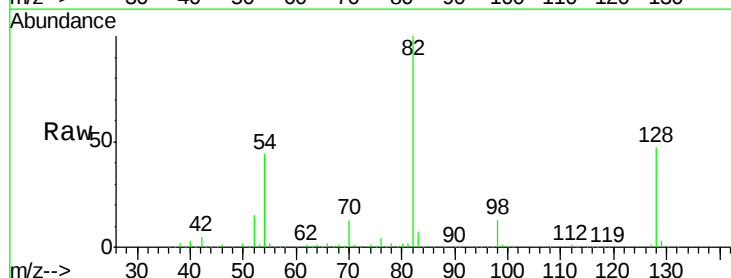
RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

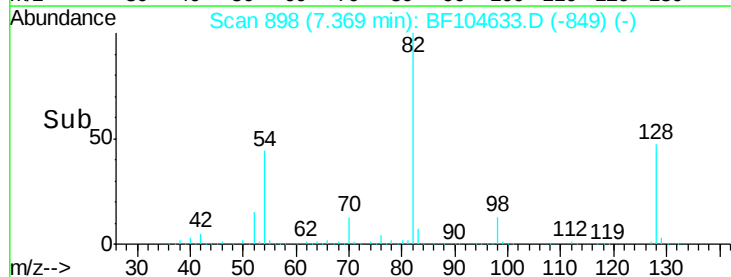
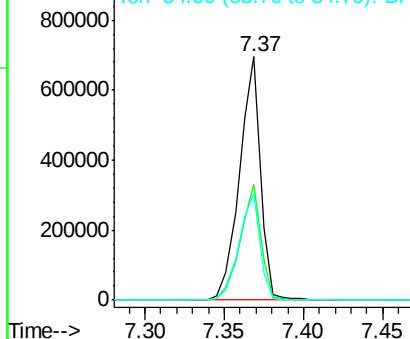
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	636679		
128	47.3	36.1	54.1	
54	44.0	41.4	62.2	

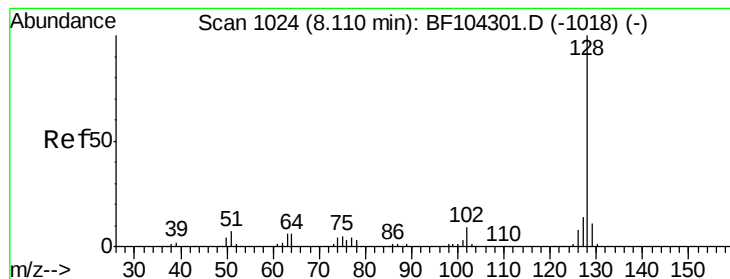


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 5.907 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

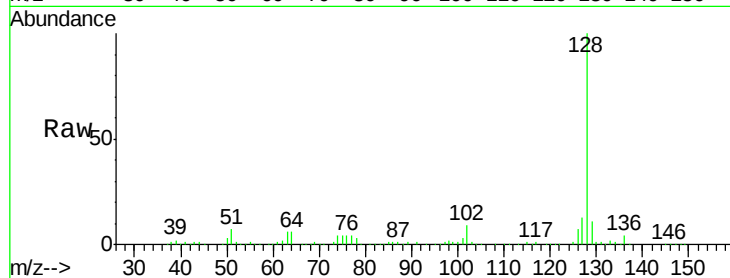
ClientSampled :

CL-02-041818

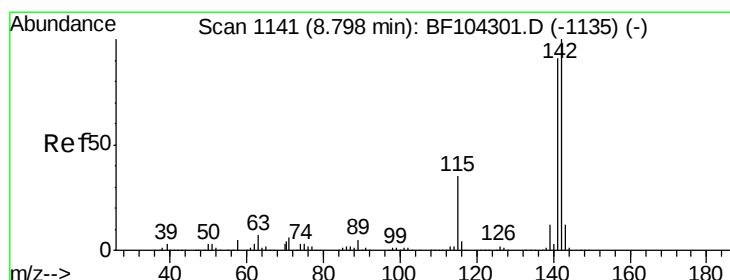
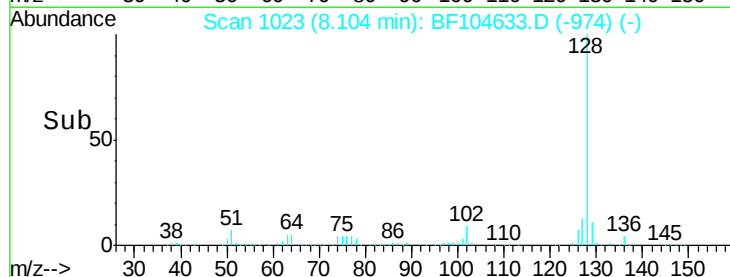
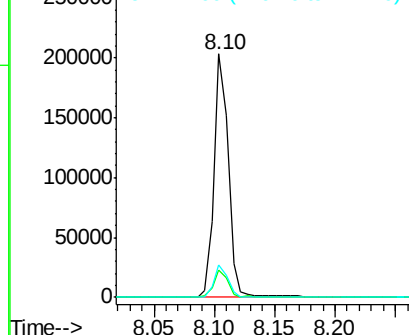
Tot Ion:	128	Resp:	166676
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.8	13.2
127	13.2	10.9	16.3

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 11.780 ng

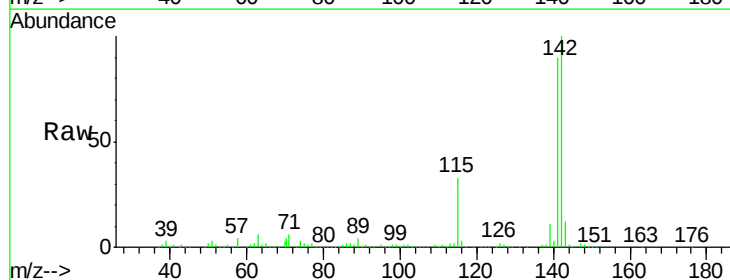
RT: 8.80 min Scan# 1141

Delta R.T. -0.01 min

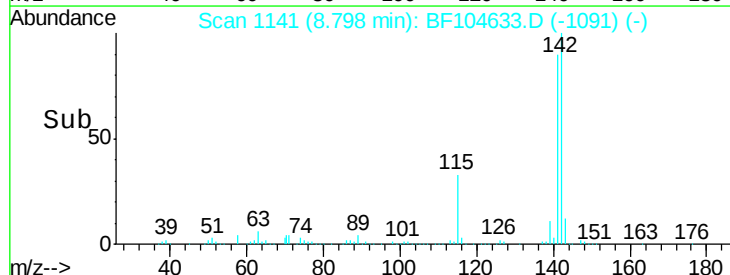
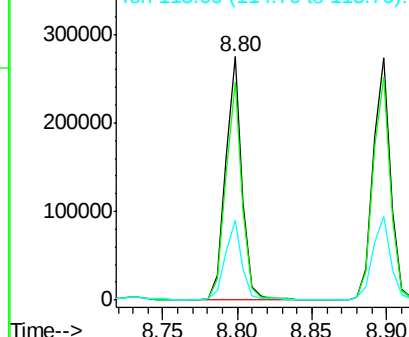
Lab File: BF104633.D

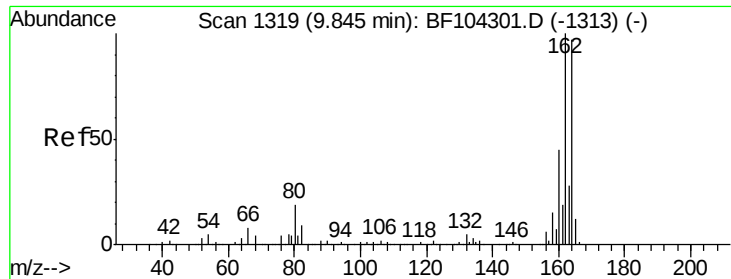
Acq: 19 Apr 2018 17:38

Tgt Ion:	142	Resp:	215002
Ion Ratio	Lower	Upper	
142	100		
141	89.6	70.8	106.2
115	32.9	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

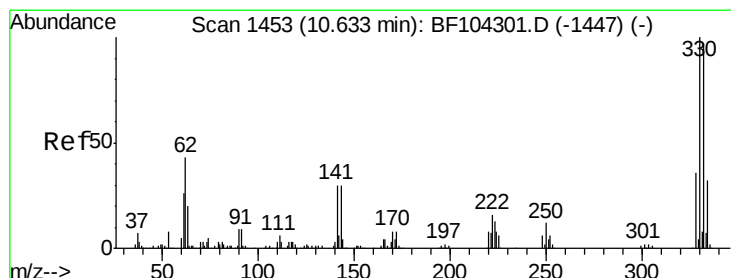
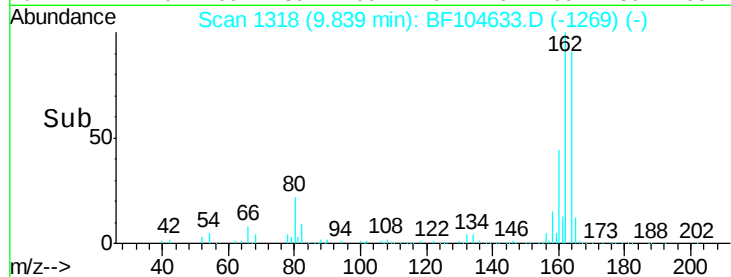
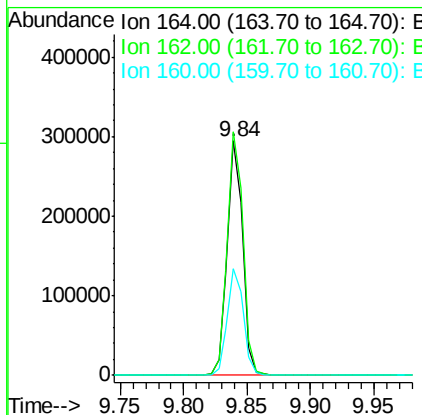
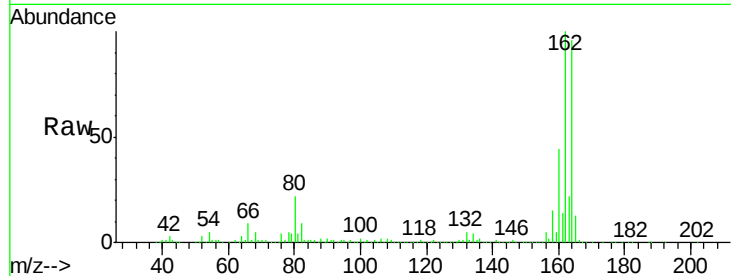
ClientSampleId :

CL-02-041818

Tot Ion:	164	Resp:	249130
Ion Ratio	Lower	Upper	
164	100		
162	103.8	86.1	129.1
160	45.7	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 92.014 ng

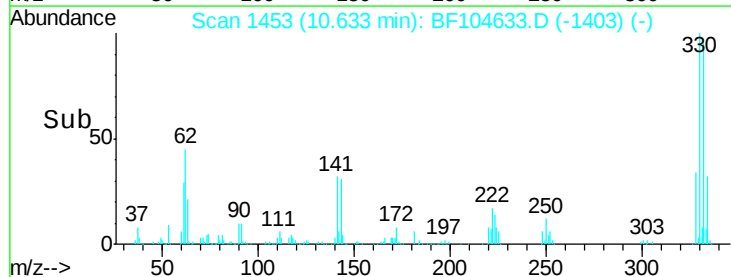
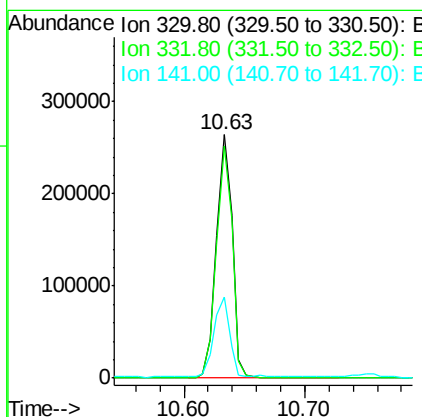
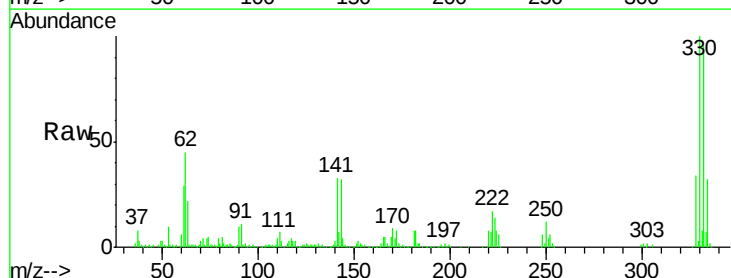
RT: 10.63 min Scan# 1453

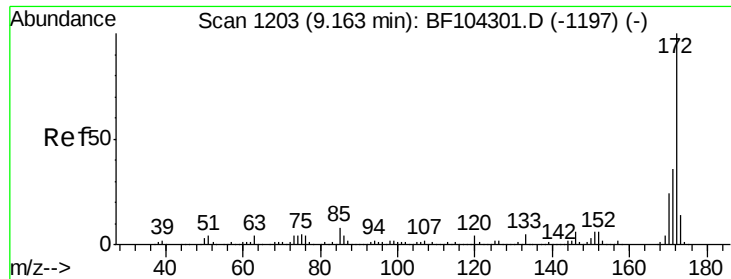
Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tgt Ion:	330	Resp:	237790
Ion Ratio	Lower	Upper	
330	100		
332	95.5	77.0	115.6
141	32.9	29.9	44.9





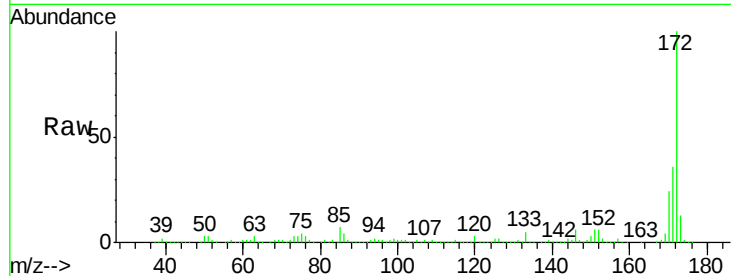
#44
2-Fluorobiphenyl
Concen: 58.394 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampleId :
CL-02-041818

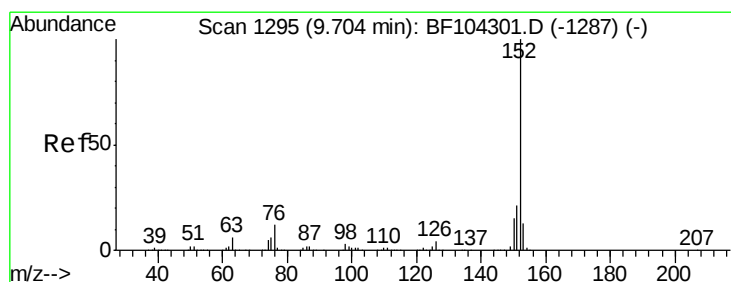
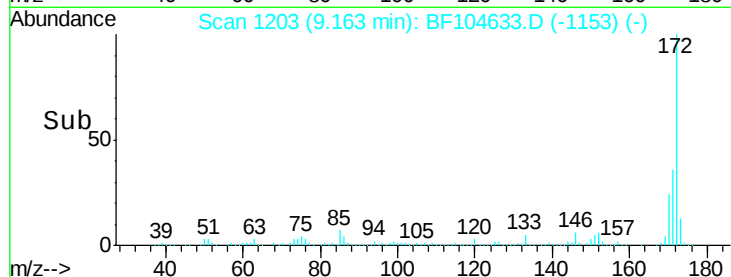
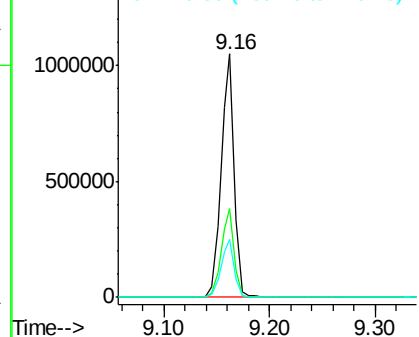
Tot Ion	Ratio	Resp	Lower	Upper
172	100	920889		
171	36.3		29.7	44.5
170	24.1		19.6	29.4

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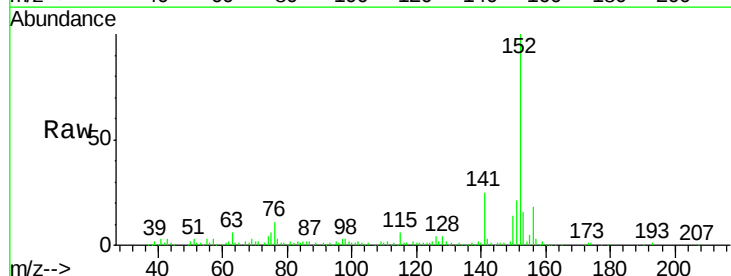


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

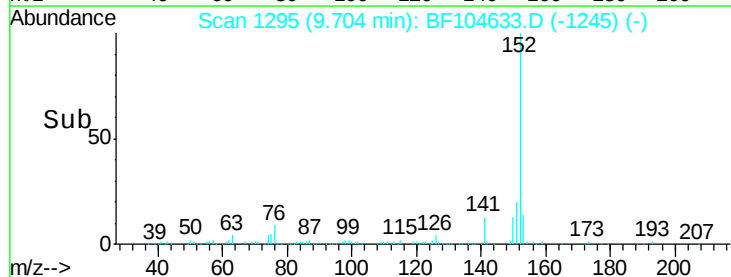
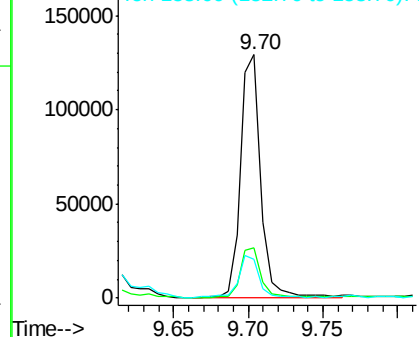


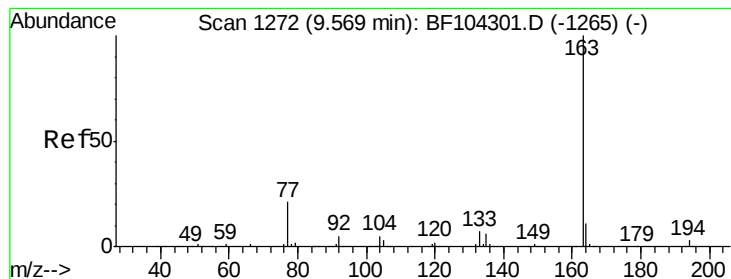
#48
Acenaphthylene
Concen: 4.740 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	122939		
151	20.8		16.3	24.5
153	16.0		10.7	16.1



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





#49

Dimethylphthalate

Concen: 8.724 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

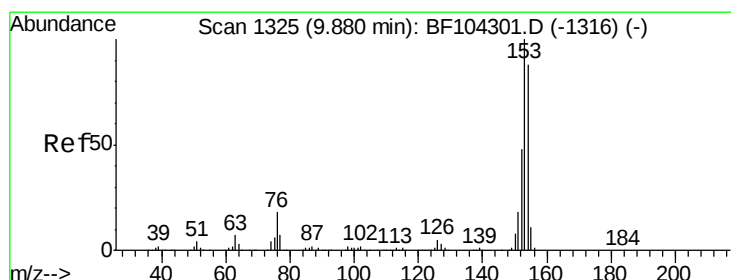
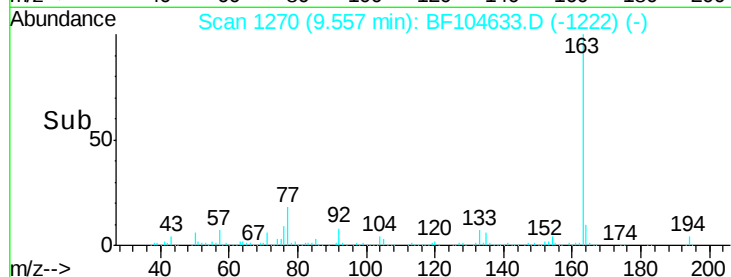
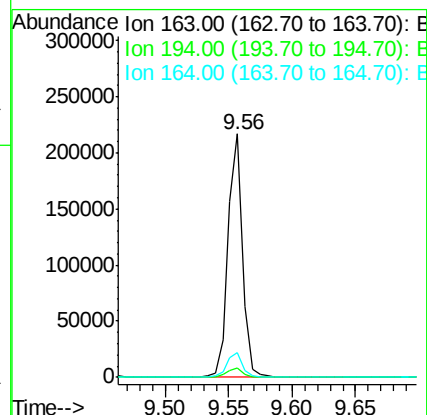
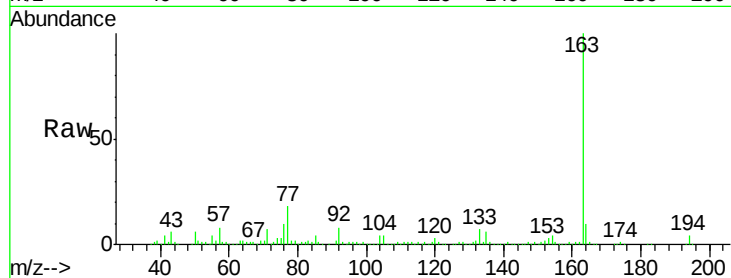
ClientSampleId :

CL-02-041818

Tot Ion:	163	Resp:	171396
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.7	4.1
164	10.0	8.2	12.2

Manual Integrations
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4/20/2018 3:05:14 PM



#51

Acenaphthene

Concen: 4.673 ng

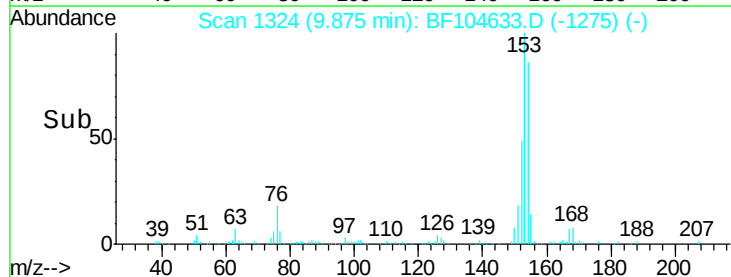
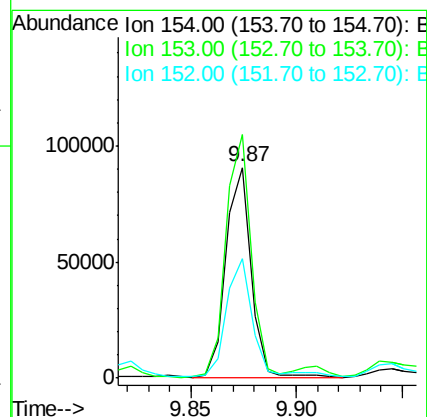
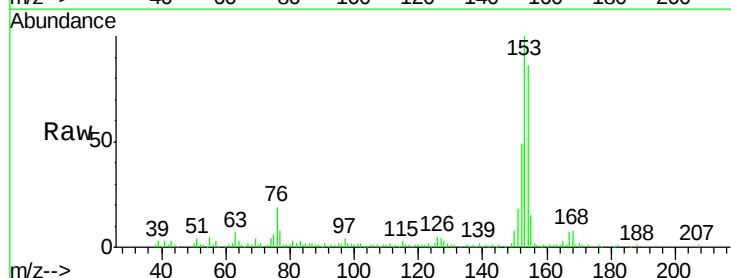
RT: 9.87 min Scan# 1324

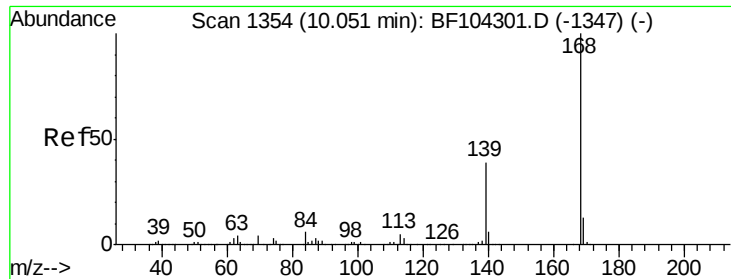
Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tgt Ion:	154	Resp:	73955
Ion Ratio	Lower	Upper	
154	100		
153	115.7	91.2	136.8
152	57.1	43.8	65.8





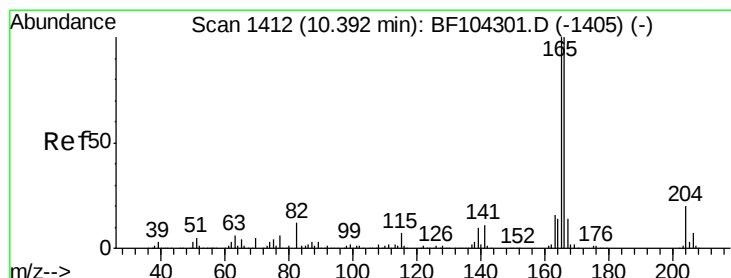
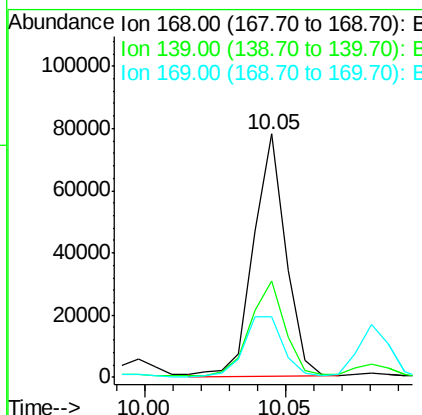
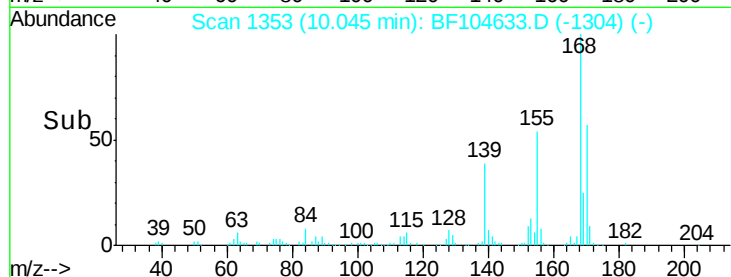
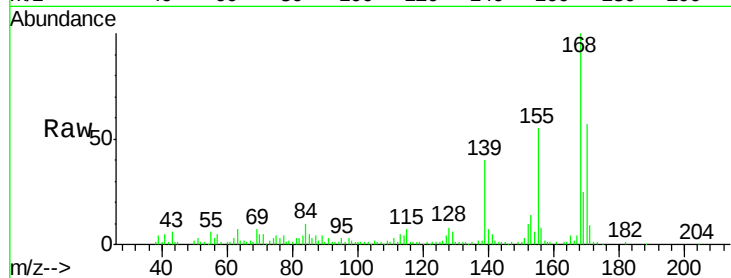
#54
Dibenzenofuran
Concen: 2.784 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampleId :
CL-02-041818

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.6	30.1	45.1
169	24.8	10.9	16.3

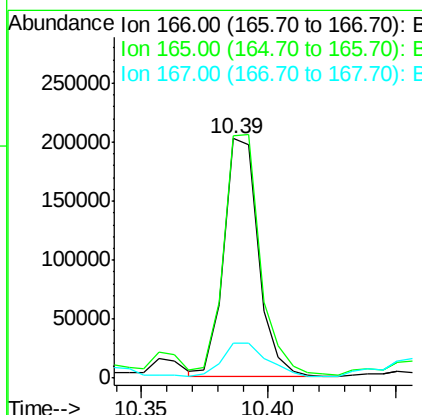
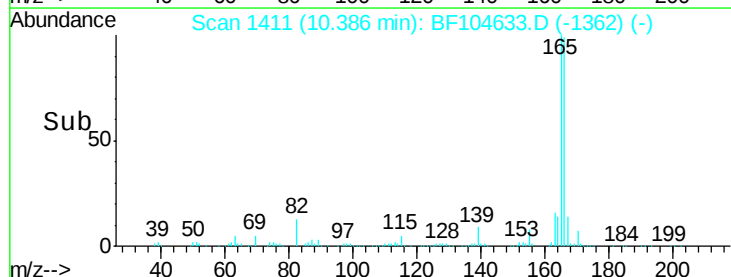
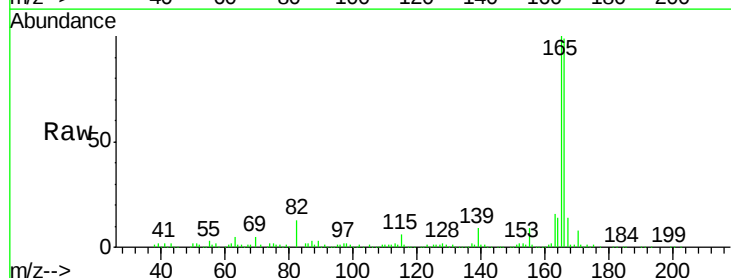
Manual Integrations
APPROVED

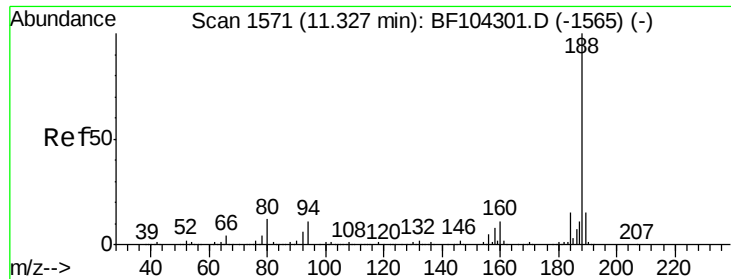
Sohil
4/20/2018 3:05:14 PM



#57
Fluorene
Concen: 11.964 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.0	79.8	119.8
167	14.4	10.6	16.0





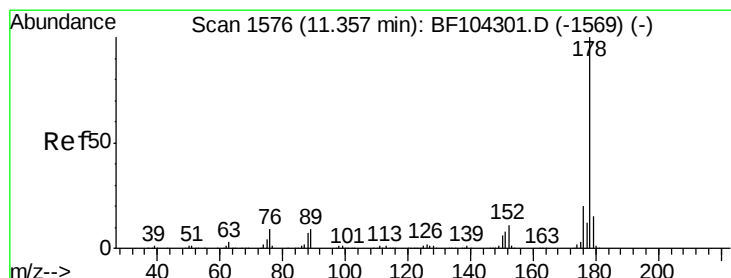
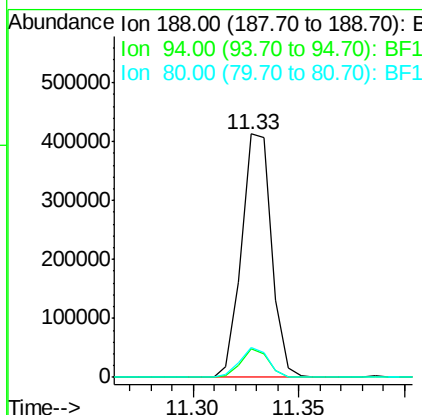
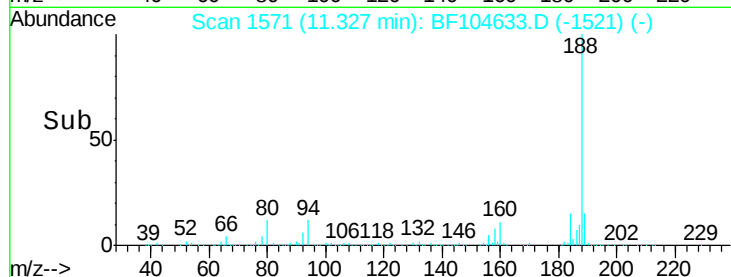
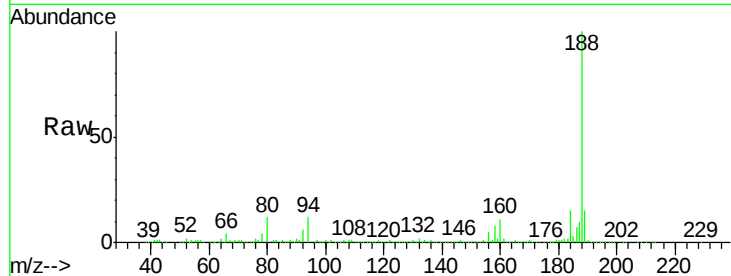
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampled :
CL-02-041818

Tot Ion	Ratio	Resp	Lower	Upper
188	100	406513		
94	11.9		8.5	12.7
80	12.2		9.2	13.8

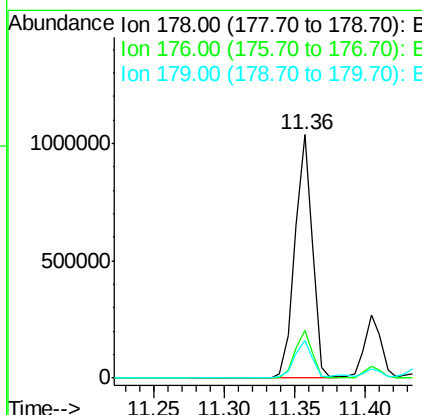
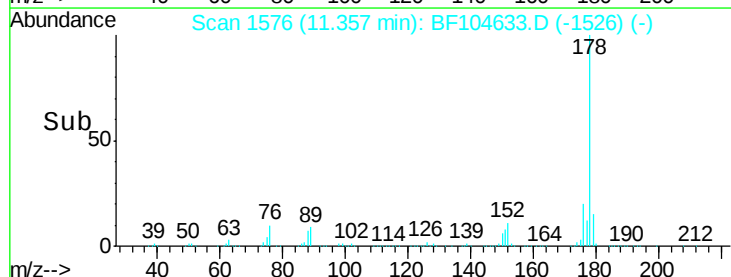
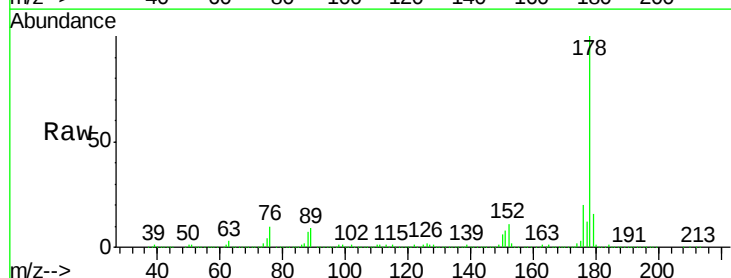
Manual Integrations
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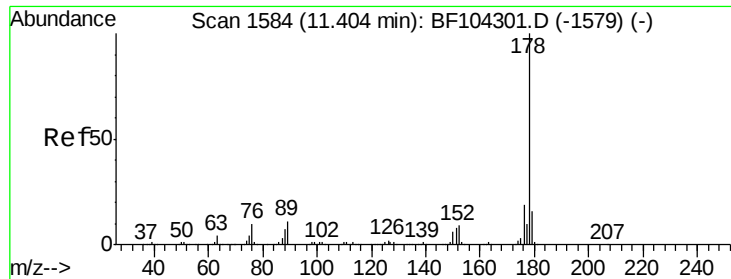
Sohil
4/20/2018 3:05:14 PM



#70
Phenanthrene
Concen: 39.021 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	883366		
176	19.8		15.8	23.8
179	15.6		13.0	19.6





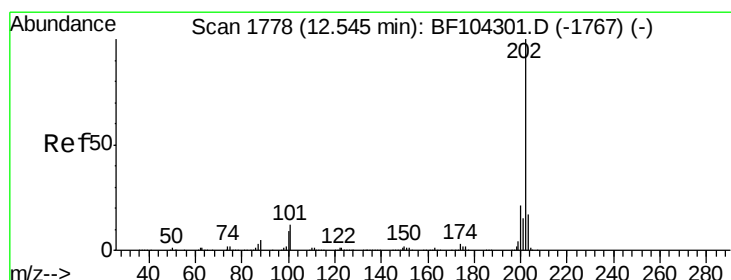
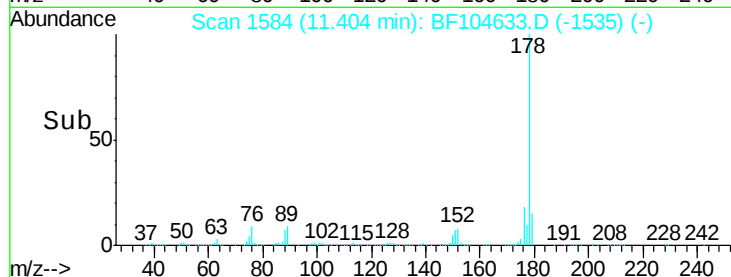
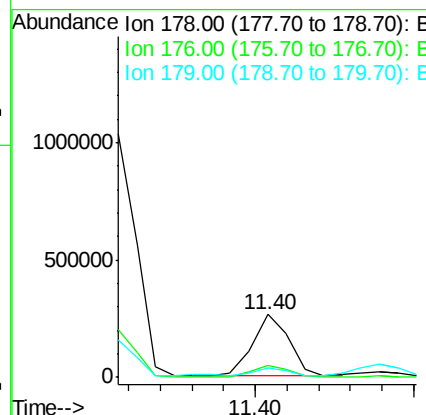
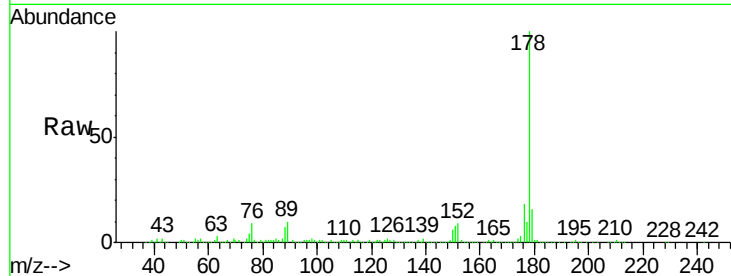
#71
 Anthracene
 Concen: 9.035 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-041818

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.3	15.4	23.2	
179	15.6	12.6	19.0	

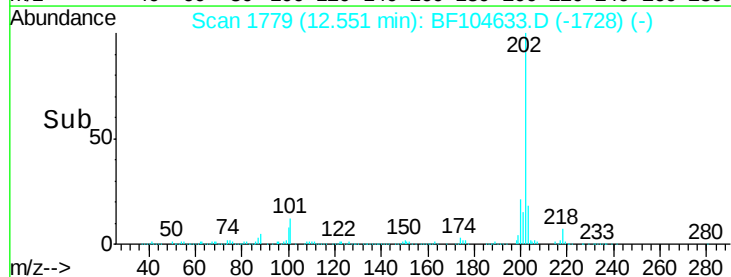
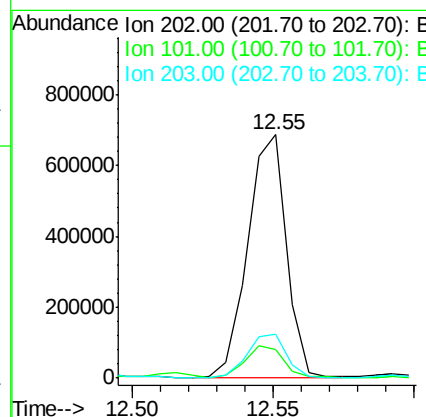
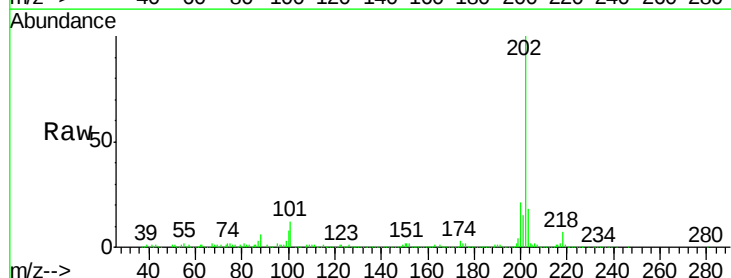
Manual Integrations
 APPROVED

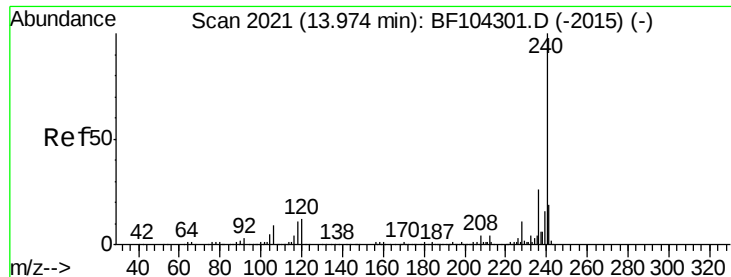
Sohil
 4/20/2018 3:05:14 PM



#74
 Fluoranthene
 Concen: 27.422 ng
 RT: 12.55 min Scan# 1779
 Delta R.T. 0.00 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Tgt Ion	Ion	Ratio	Lower	Upper
202	100			
101	11.9	0.0	34.1	
203	18.1	0.0	38.1	





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

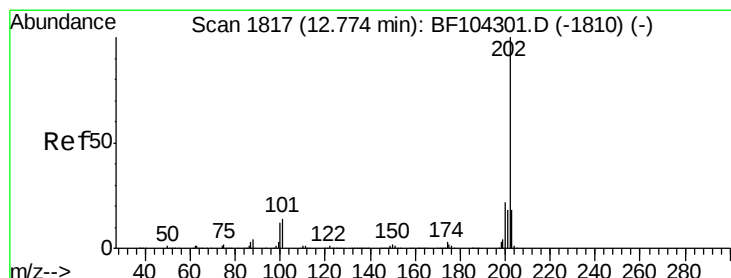
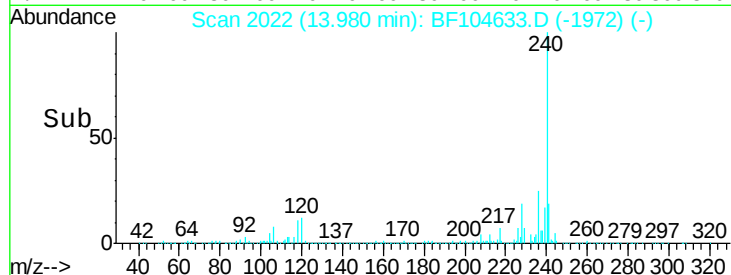
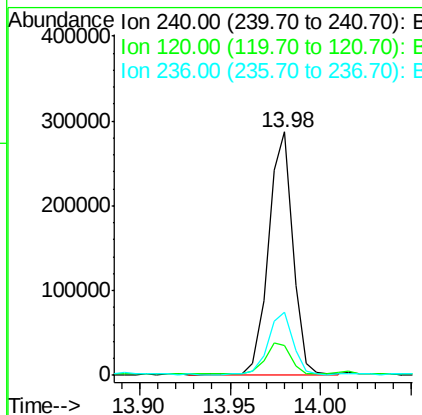
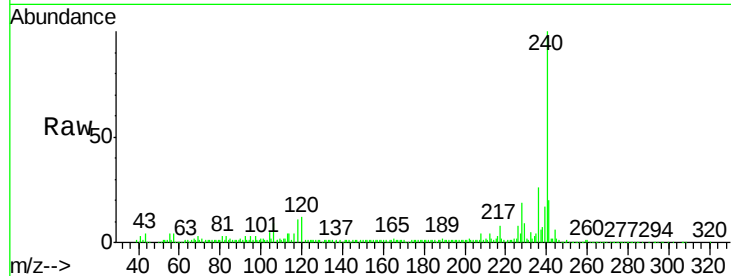
ClientSampleId :

CL-02-041818

Tot Ion:	240	Resp:	266050
Ion Ratio	Lower	Upper	
240	100		
120	12.4	9.5	14.3
236	25.7	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 44.386 ng

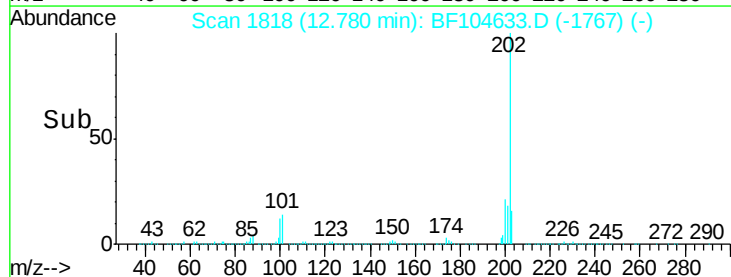
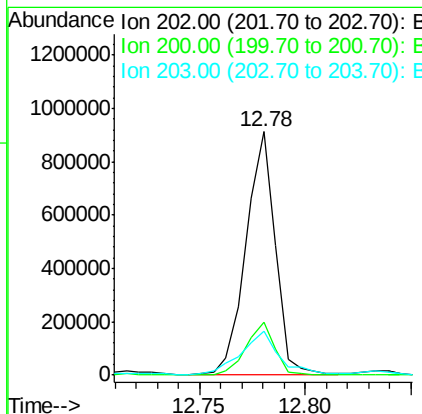
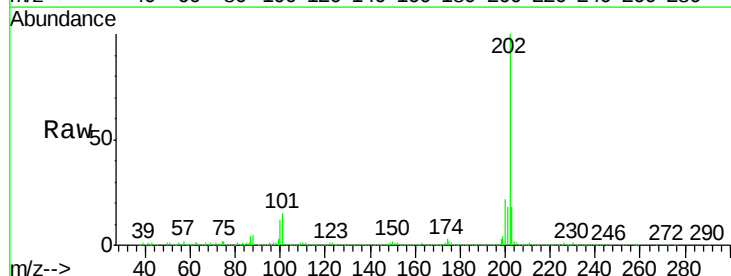
RT: 12.78 min Scan# 1818

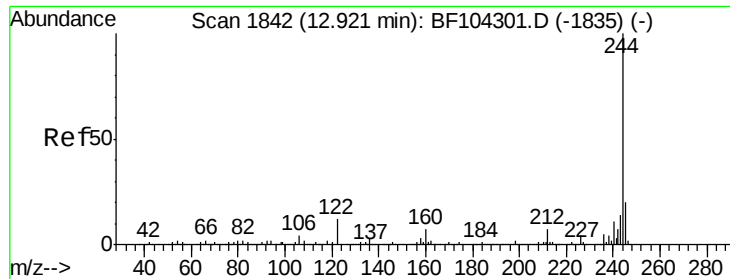
Delta R.T. -0.00 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tgt Ion:	202	Resp:	875317
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	18.2	14.3	21.5





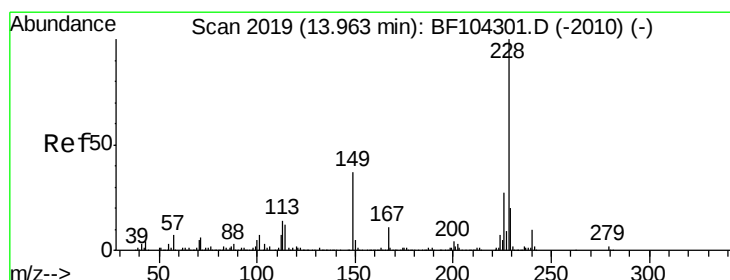
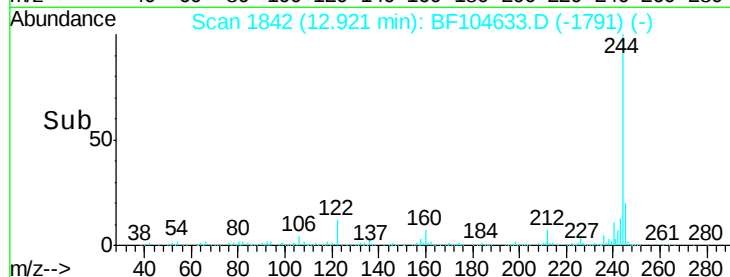
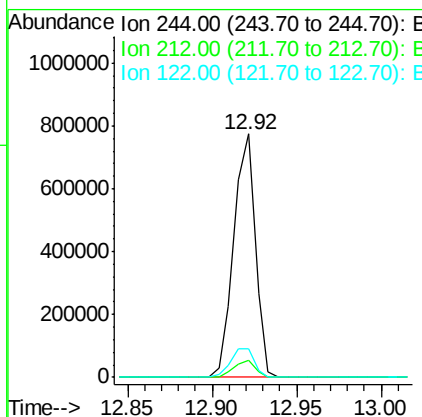
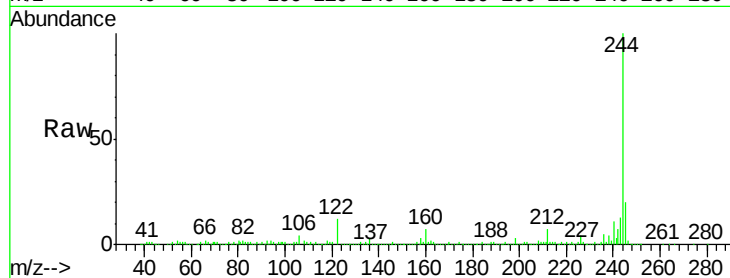
#78
 Terphenyl-d14
 Concen: 59.013 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. 0.00 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-041818

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	12.0	11.0	16.4

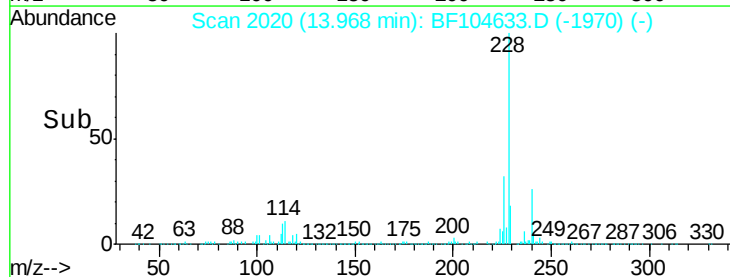
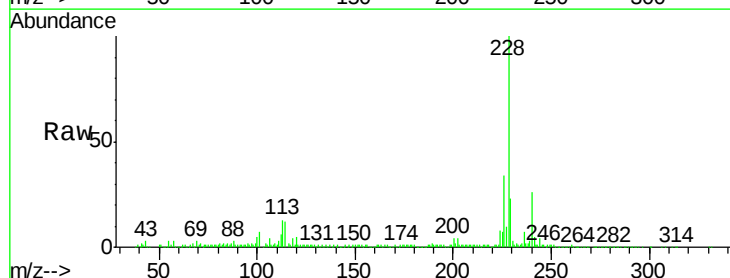
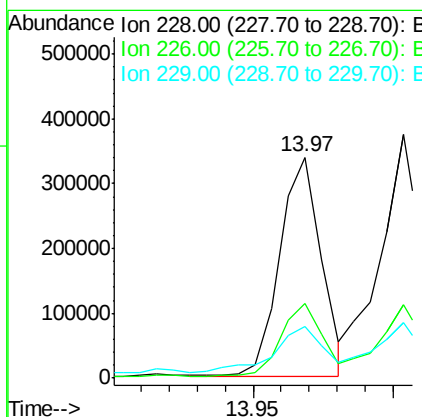
Manual Integrations
 APPROVED

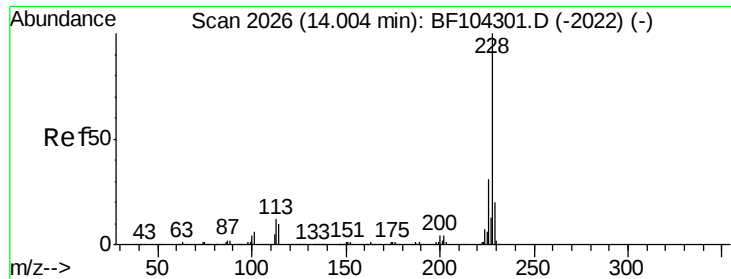
Sohil
 4/20/2018 3:05:14 PM



#80
 Benzo(a)anthracene
 Concen: 21.869 ng m
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: BF104633.D
 Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.0	22.6	33.8#
229	23.1	15.8	23.6





#82

Chrysene

Concen: 22.833 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Instrument :

BNA_F

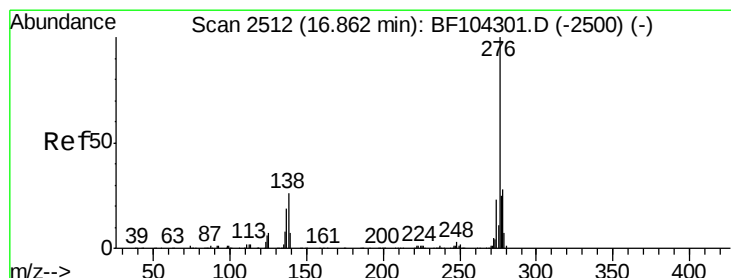
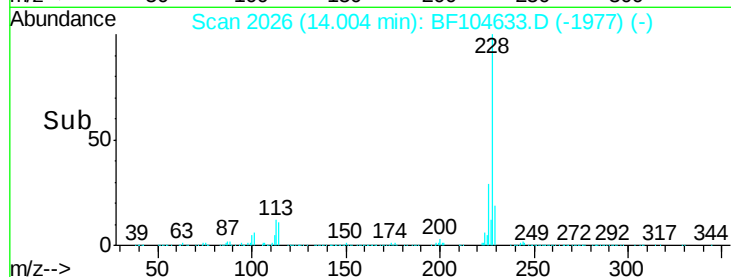
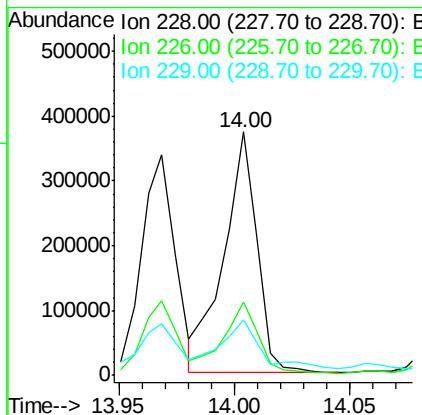
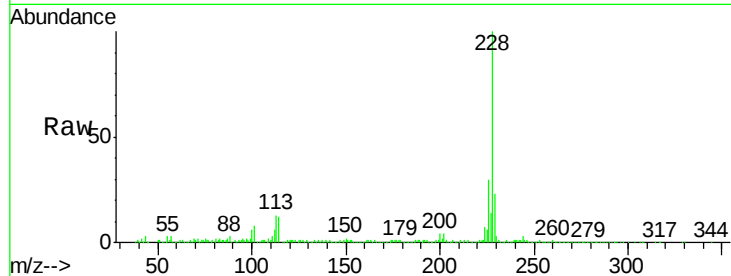
ClientSampleId :

CL-02-041818

Tot Ion:	228	Resp:	372758
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	22.7	16.2	24.4

Manual Integrations
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Sohil
4/20/2018 3:05:14 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.280 ng

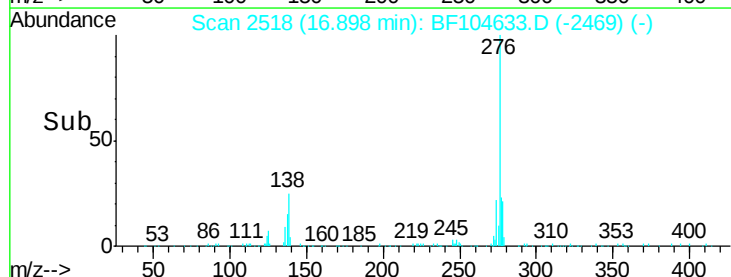
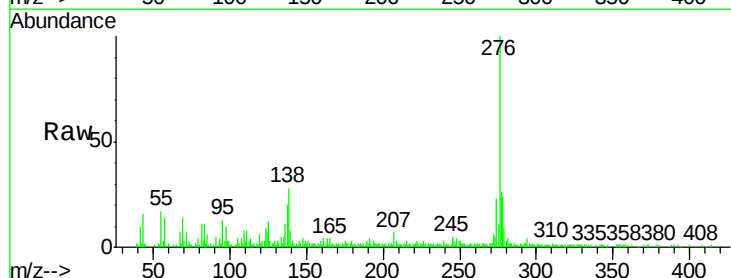
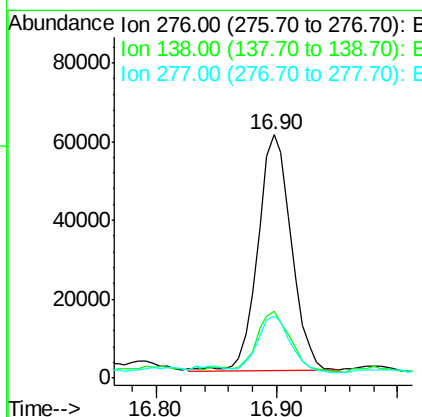
RT: 16.90 min Scan# 2518

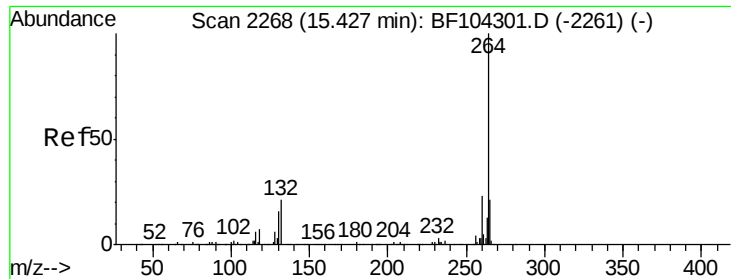
Delta R.T. -0.01 min

Lab File: BF104633.D

Acq: 19 Apr 2018 17:38

Tgt Ion:	276	Resp:	114836
Ion Ratio	Lower	Upper	
276	100		
138	26.1	25.0	37.6
277	24.8	20.1	30.1





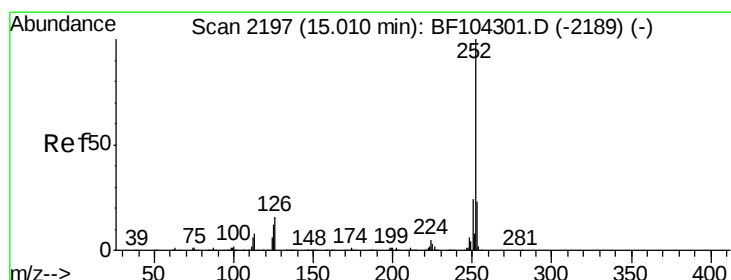
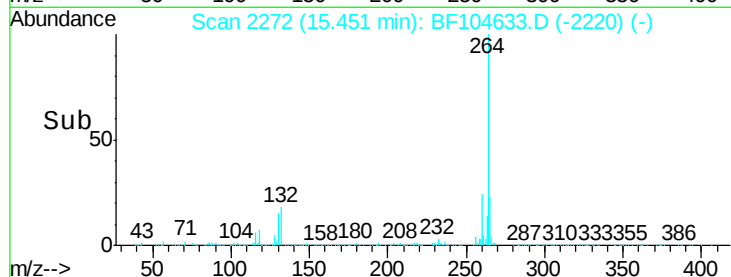
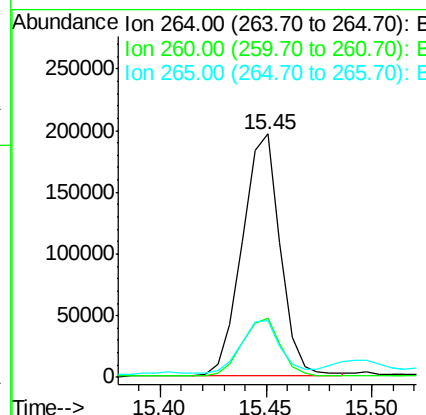
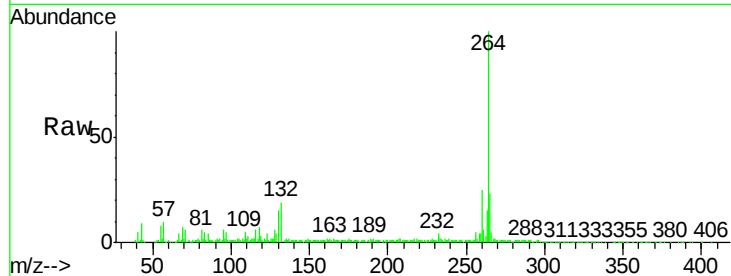
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampleId :
CL-02-041818

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	23.4	17.5	26.3

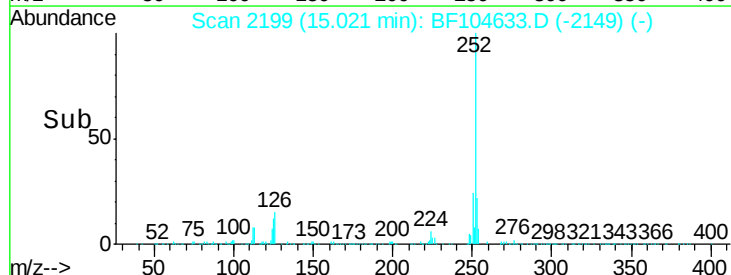
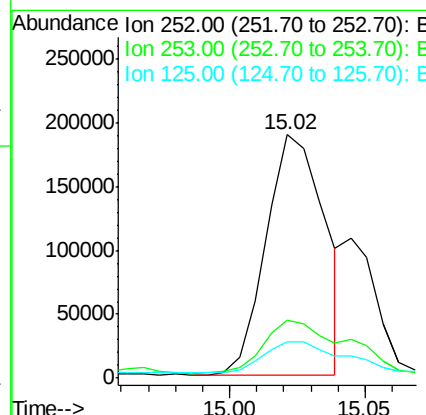
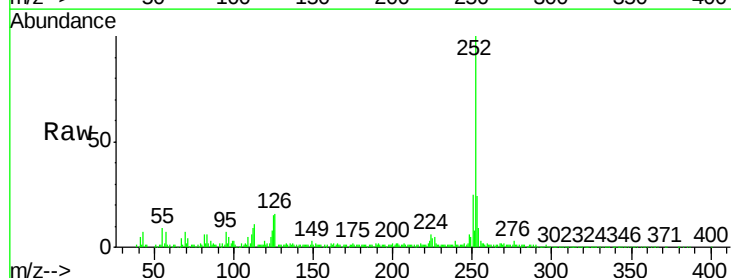
Manual Integrations
APPROVED

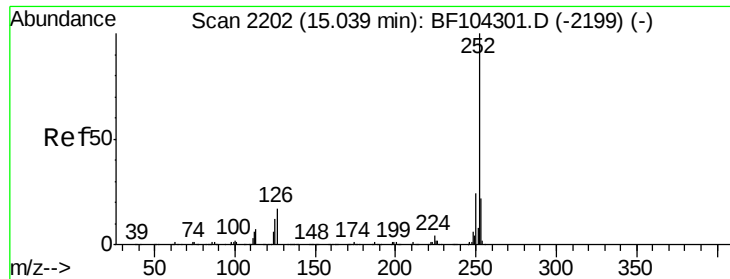
Sohil
4/20/2018 3:05:14 PM



#87
Benzo(b)fluoranthene
Concen: 18.481 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.0	25.6
125	14.7	9.0	13.6





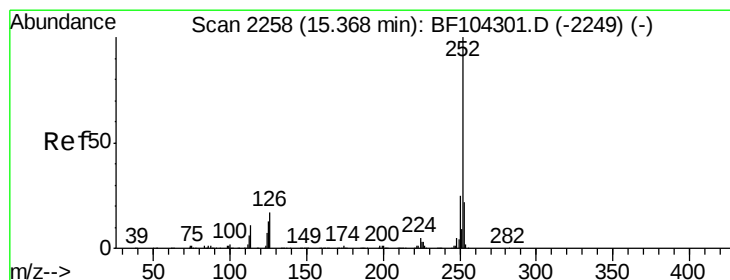
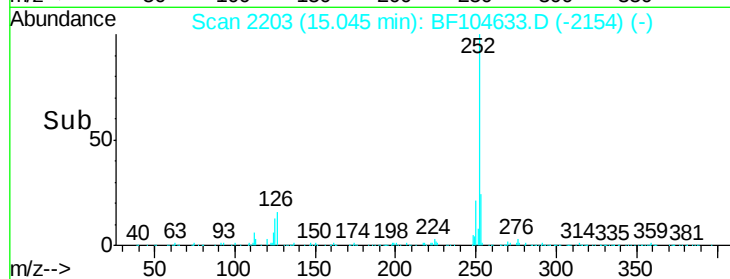
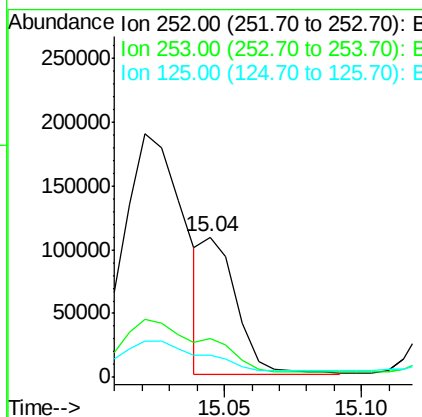
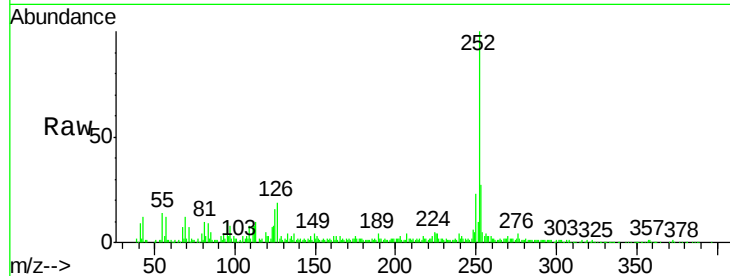
#88
Benzo(k)fluoranthene
Concen: 6.284 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampleId :
CL-02-041818

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.5	17.9	26.9#
125	16.2	10.2	15.2#

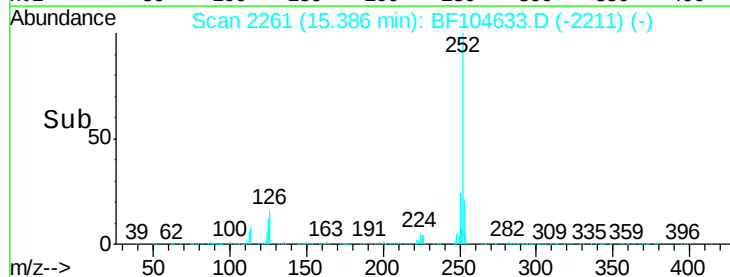
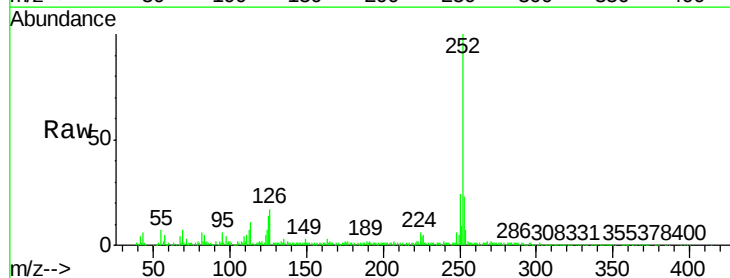
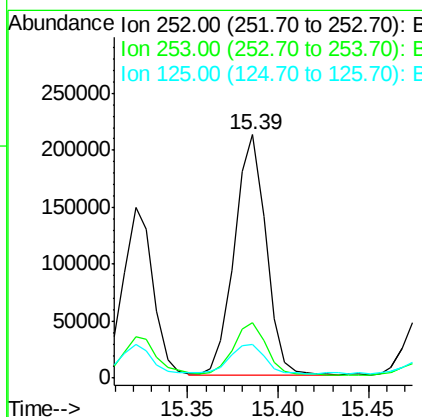
Manual Integrations
APPROVED

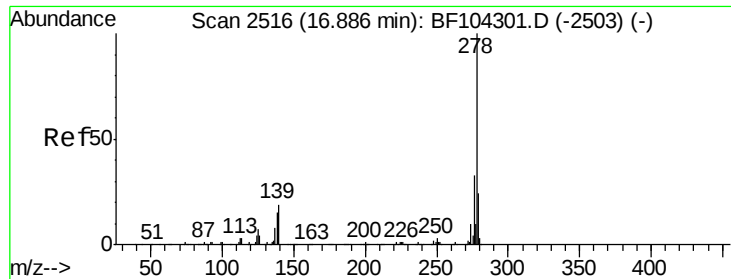
Sohil
4/20/2018 3:05:14 PM



#89
Benzo(a)pyrene
Concen: 18.546 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	14.1	9.8	14.6





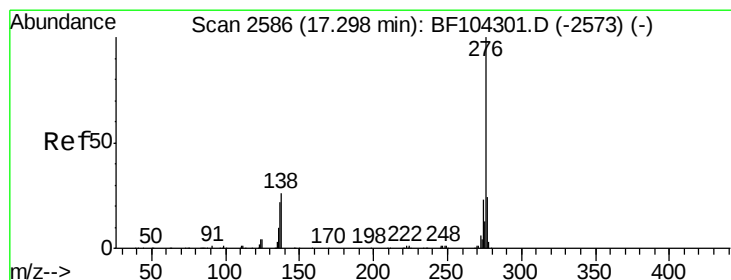
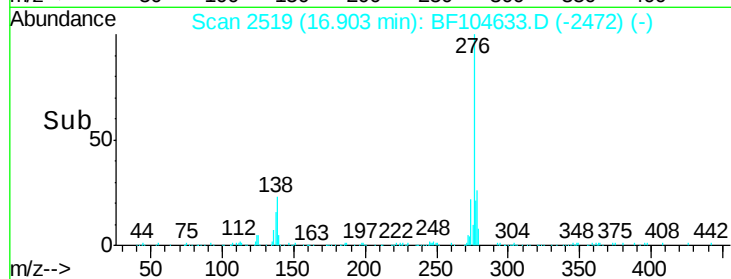
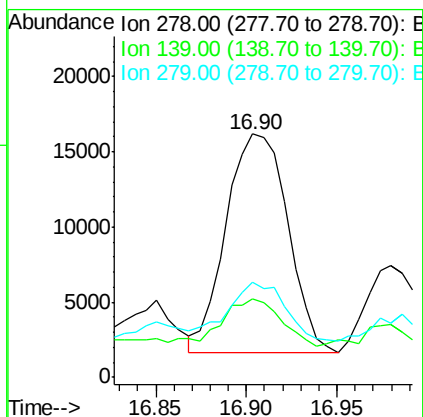
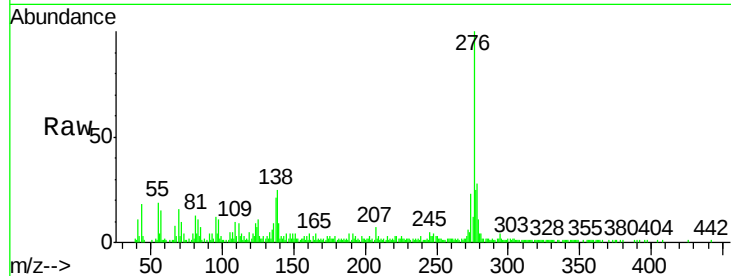
#90
Dibenzo(a,h)anthracene
Concen: 3.022 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.02 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Instrument :
BNA_F
ClientSampleId :
CL-02-041818

Tot Ion	Ratio	Lower	Upper
278	100		
139	32.2	15.9	23.9#
279	39.1	19.0	28.4#

Manual Integrations
APPROVED

Sohil
4/20/2018 3:05:14 PM



#91
Benzo(g,h,i)perylene
Concen: 11.652 ng
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: BF104633.D
Acq: 19 Apr 2018 17:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	24.6	21.8	32.8

