

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050318\
 Data File : BF105088.D
 Acq On : 3 May 2018 22:19
 Operator : JU/SJ
 Sample : J2669-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-050118-A

Manual Integrations
 APPROVED

Sohil
 5/4/2018 10:51:52 AM

Quant Time: May 04 09:59:37 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 02 17:25:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	114105	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	437927	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	183267	20.00	ng	-0.01
63) Phenanthrene-d10	11.32	188	256847	20.00	ng	0.00
75) Chrysene-d12	14.02	240	169238	20.00	ng	-0.02
86) Perylene-d12	15.56	264	136974	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	370088	49.59	ng	0.00
7) Phenol-d6	6.43	99	462119	50.40	ng	-0.01
23) Nitrobenzene-d5	7.35	82	261116	38.93	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	84154	44.27	ng	-0.02
44) 2-Fluorobiphenyl	9.14	172	450054	38.79	ng	-0.02
78) Terphenyl-d14	12.90	244	313152	42.19	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.09	128	1106960	50.763	ng	99
37) 2-Methylnaphthalene	8.78	142	649801	46.067	ng	98
45) 1,1'-Biphenyl	9.24	154	115746	7.518	ng	98
48) Acenaphthylene	9.68	152	204065	10.695	ng	# 97
49) Dimethylphthalate	9.54	163	43129	2.984	ng	98
51) Acenaphthene	9.85	154	321348	27.604	ng	100
54) Dibenzofuran	10.03	168	908136	55.978	ng	96
57) Fluorene	10.38	166	1104042	93.496	ng	98
70) Phenanthrene	11.36	178	3620532	253.120	ng	99
71) Anthracene	11.40	178	1152375	79.256	ng	100
72) Carbazole	11.56	167	479334	33.737	ng	99
74) Fluoranthene	12.55	202	2751288	184.100	ng	99
77) Pvrene	12.78	202	2238836	178.471	ng	99
80) Benzo(a)anthracene	14.00	228	1193730	118.069	ng	98
82) Chrysene	14.04	228	902167	86.872	ng	98
85) Indeno(1,2,3-cd)pyrene	17.04	276	319555	36.223	ng	# 90
87) Benzo(b)fluoranthene	15.13	252	931248m	107.646	ng	
88) Benzo(k)fluoranthene	15.16	252	285460m	34.951	ng	
89) Benzo(a)pvrene	15.50	252	629983	81.388	ng	97
90) Dibenzo(a,h)anthracene	17.04	278	82337m	12.952	ng	
91) Benzo(g,h,i)perylene	17.49	276	282085	45.799	ng	95

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

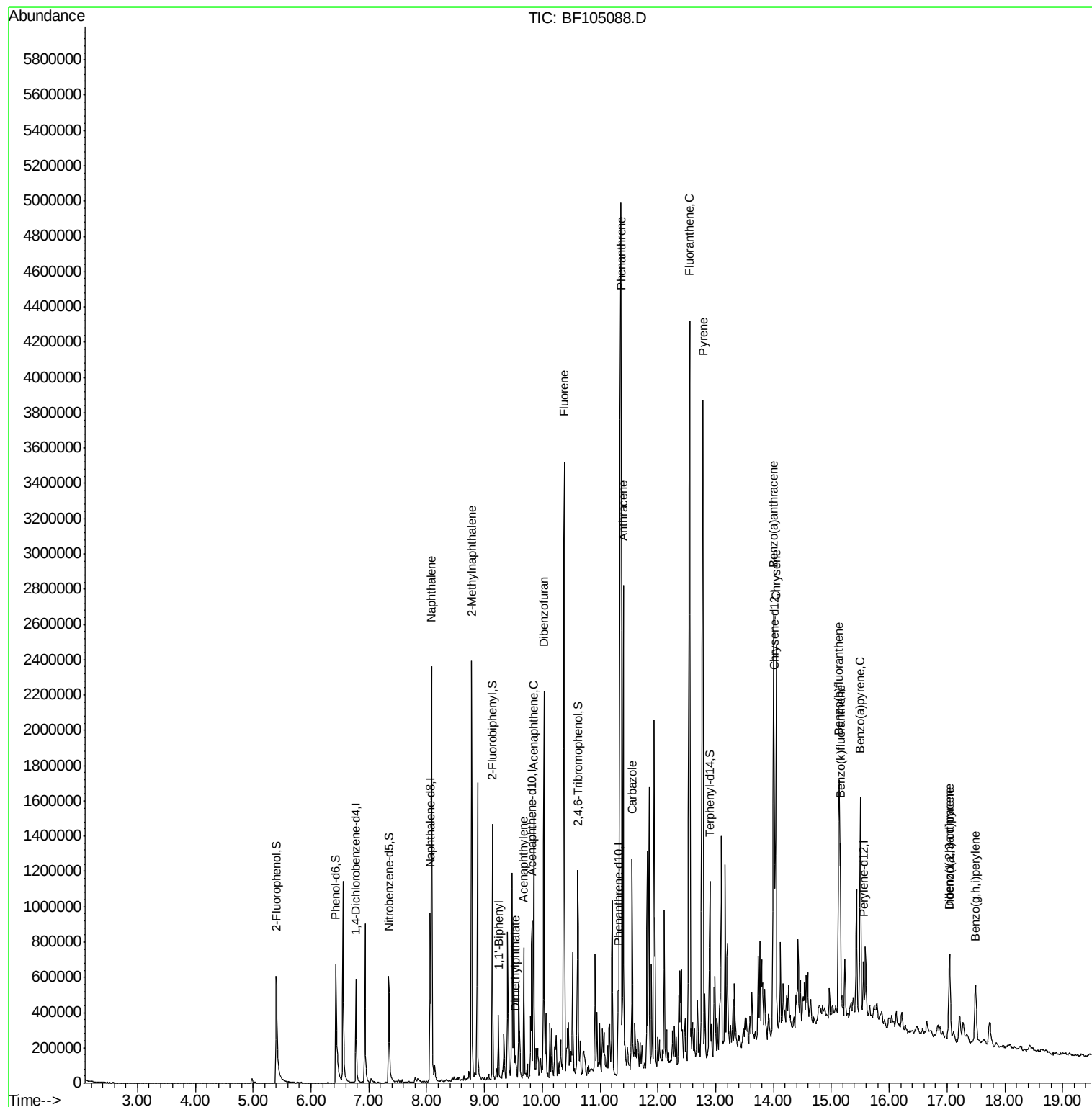
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050318\
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Misc :
ALS Vial : 17 Sample Multiplier: 1

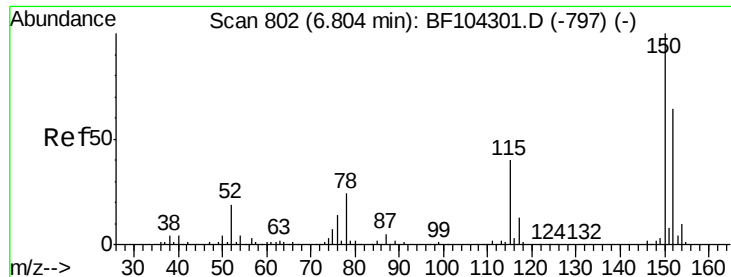
Instrument :
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SU-03-050118-A

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#1

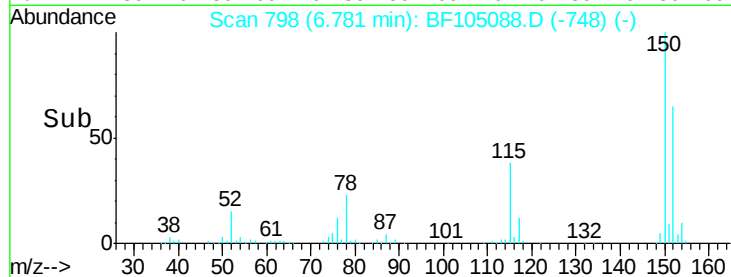
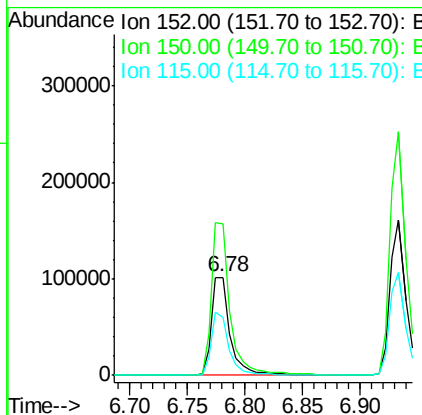
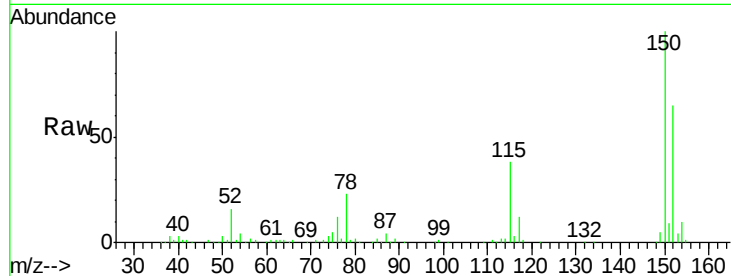
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	59.3	50.1	75.1

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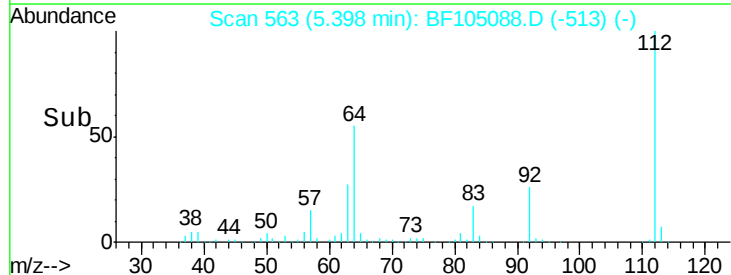
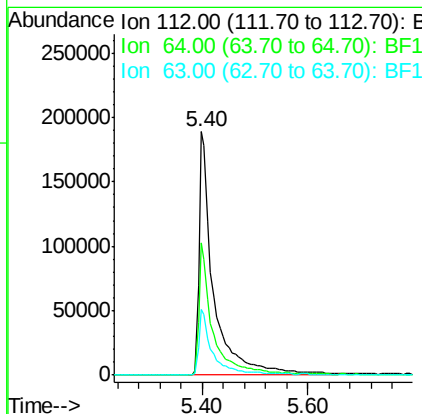
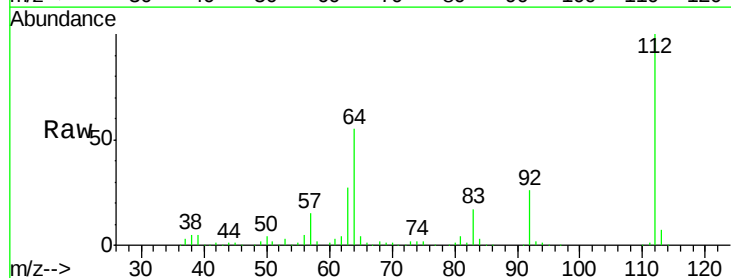
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#5

2-Fluorophenol
Concen: 49.593 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	47.9	71.9
63	27.1	23.7	35.5





#7

Phenol-d6

Concen: 50.401 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

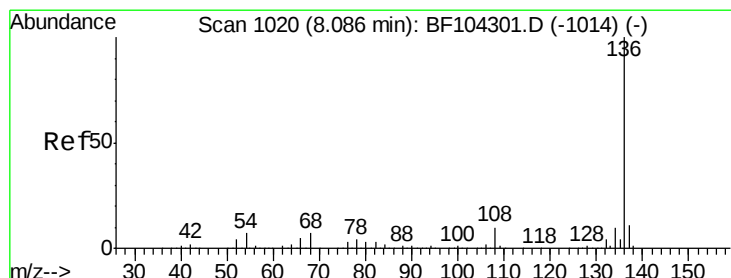
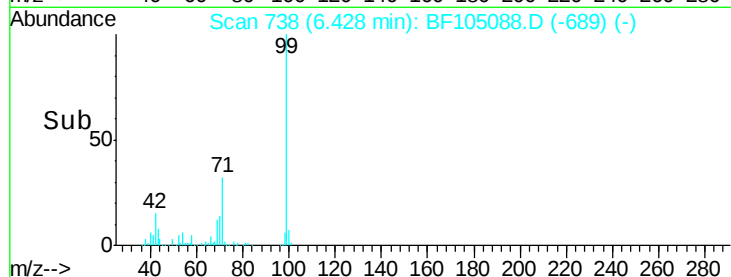
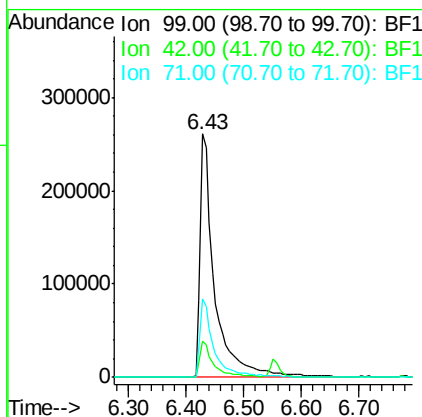
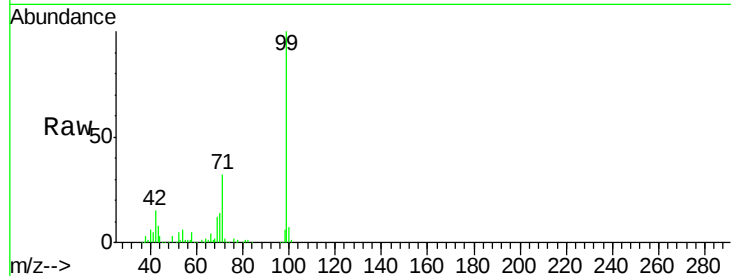
ClientSampled :

SU-03-050118-A

Tot Ion:	99	Resp:	462119
Ion Ratio	Lower	Upper	
99	100		
42	14.9	14.5	21.7
71	32.0	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

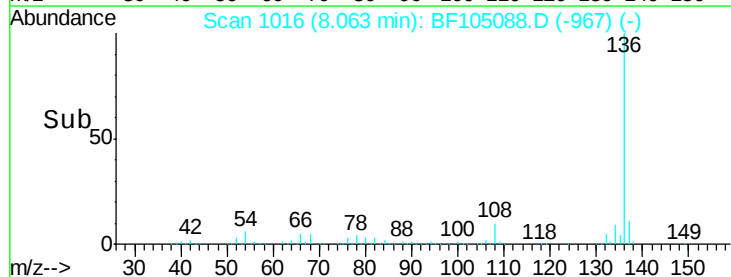
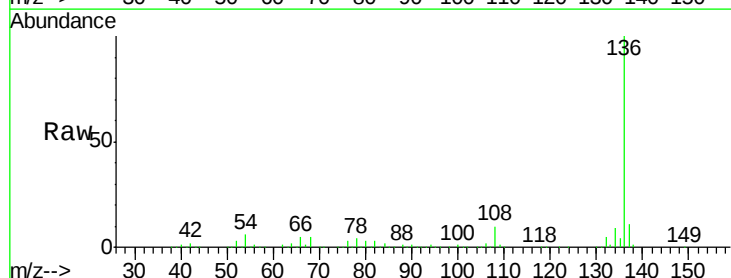
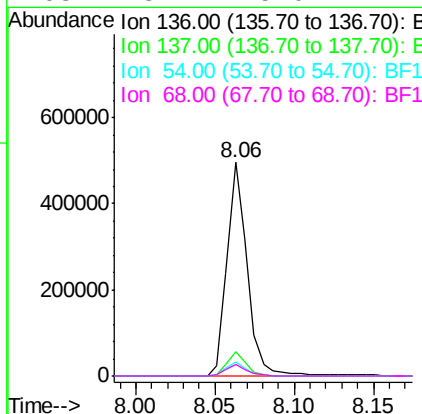
RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Tgt Ion:	136	Resp:	437927
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	6.5	6.6	9.8#
68	5.4	5.0	7.4





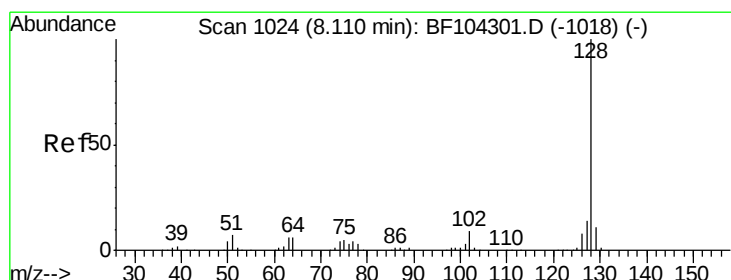
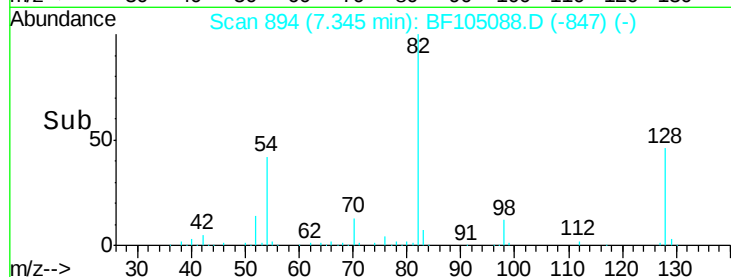
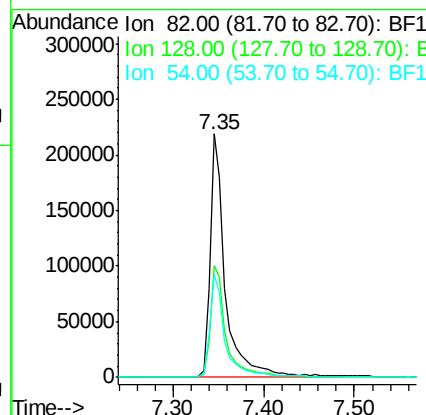
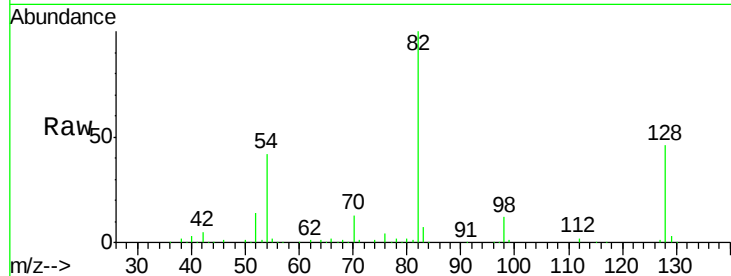
#23
Nitrobenzene-d5
Concen: 38.934 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion:	82	Resp:	261116
Ion Ratio	Lower	Upper	
82	100		
128	45.9	36.1	54.1
54	42.3	41.4	62.2

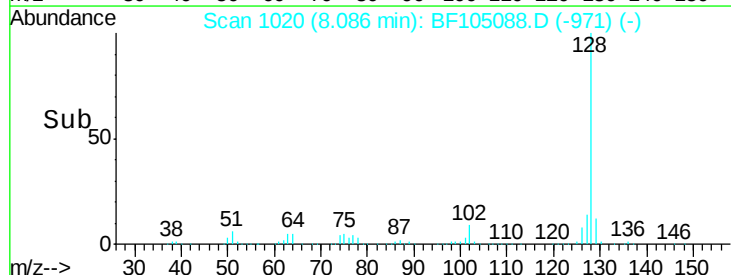
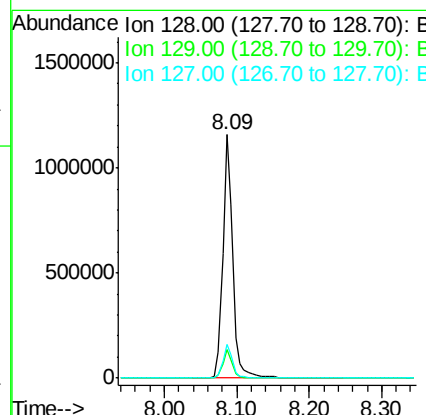
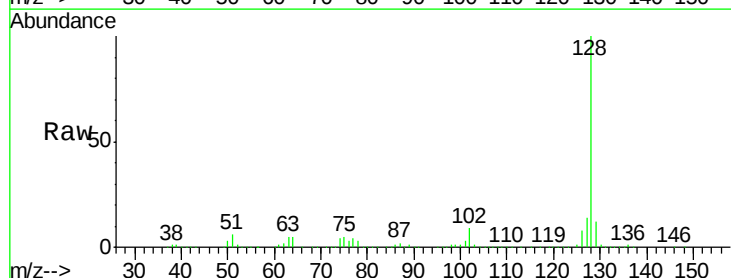
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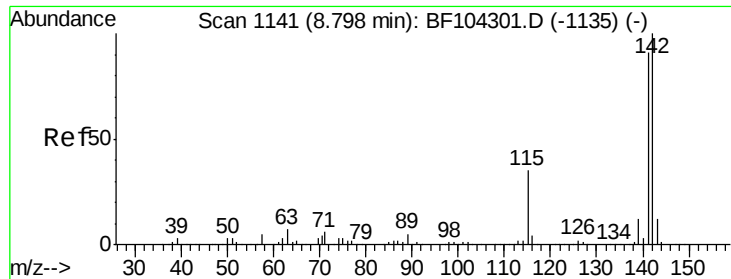
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#31
Naphthalene
Concen: 50.763 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion:	128	Resp:	1106960
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.8	13.2
127	13.6	10.9	16.3





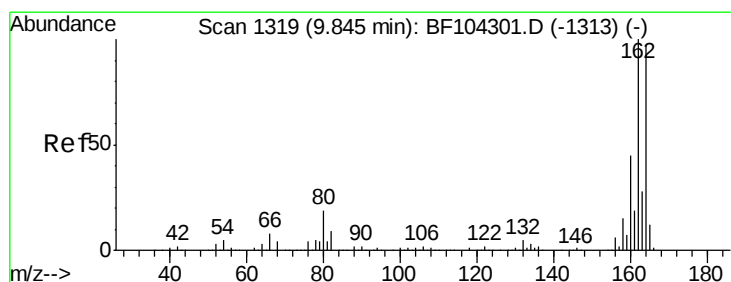
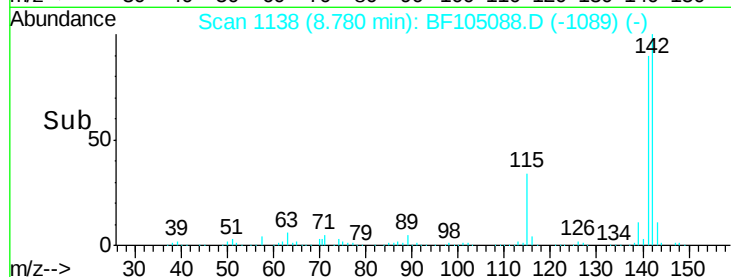
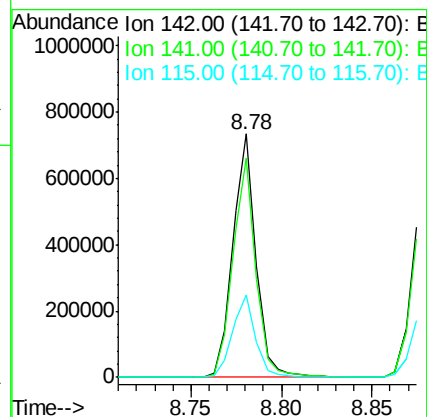
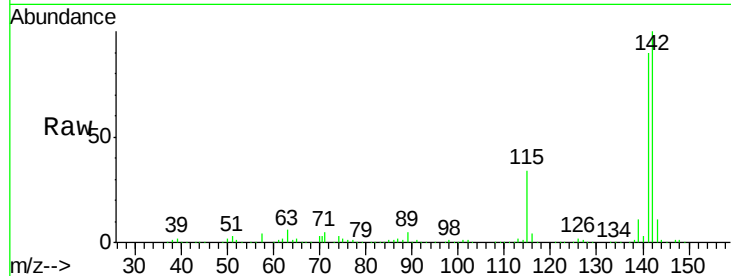
#37
2-Methylnaphthalene
Concen: 46.067 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	70.8	106.2
115	34.0	26.1	39.1

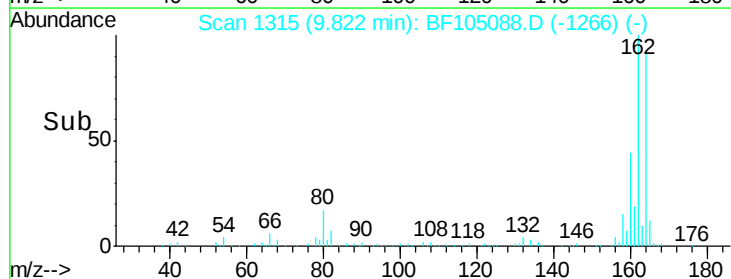
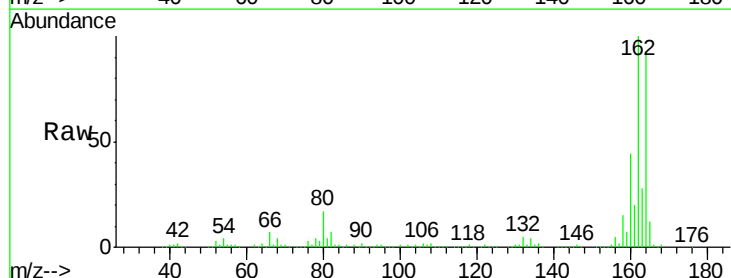
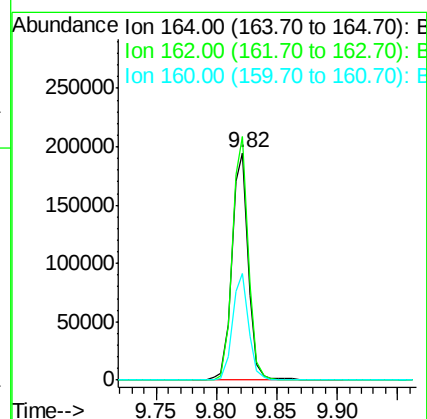
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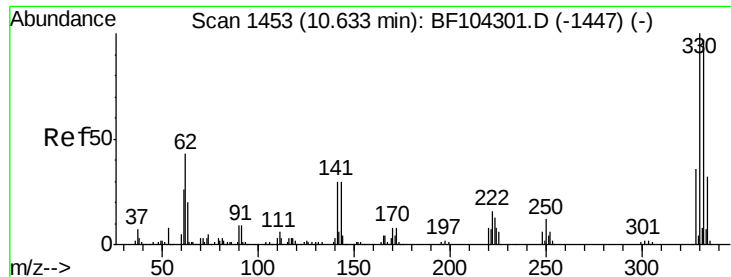
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	86.1	129.1
160	46.7	38.3	57.5





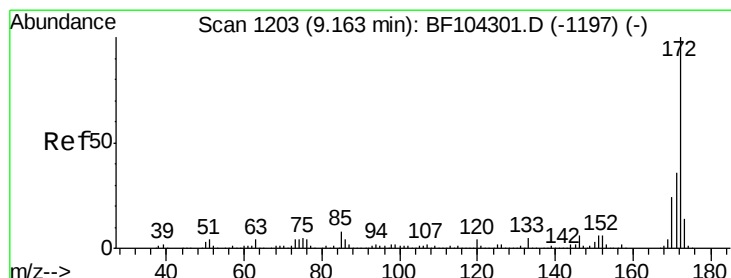
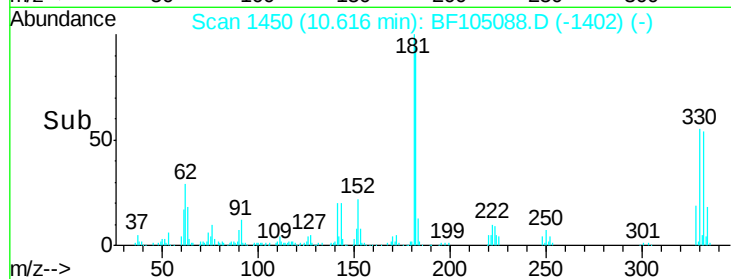
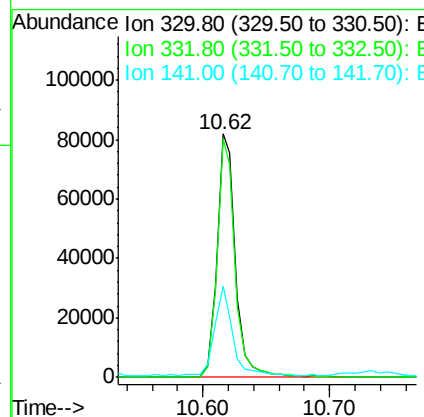
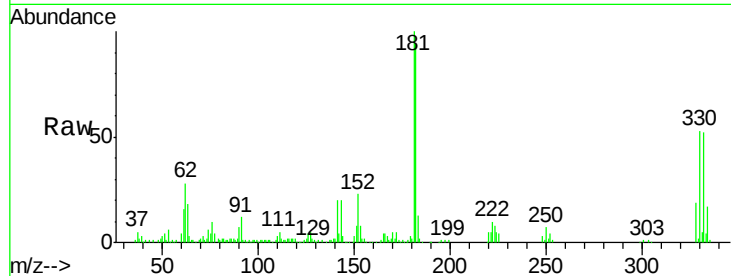
#41
 2,4,6-Tribromophenol
 Concen: 44.266 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.02 min
 Lab File: BF105088.D
 Acq: 3 May 2018 22:19

Instrument :
 BNA_F
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 SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.6
141	36.7	29.9	44.9

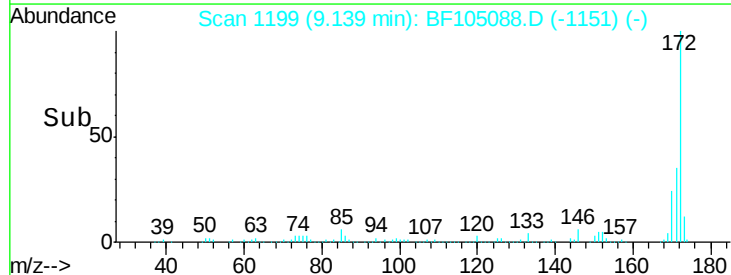
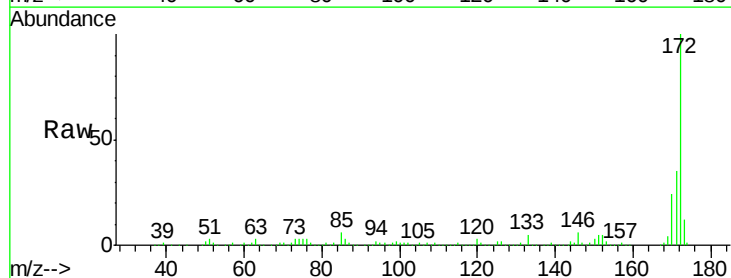
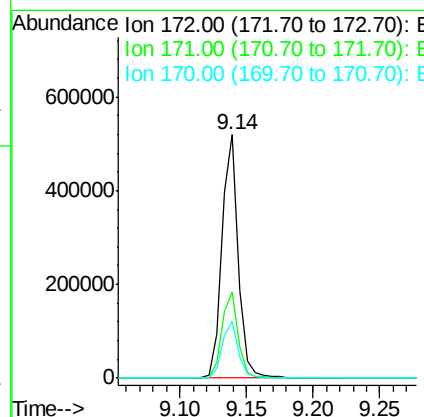
Manual Integrations
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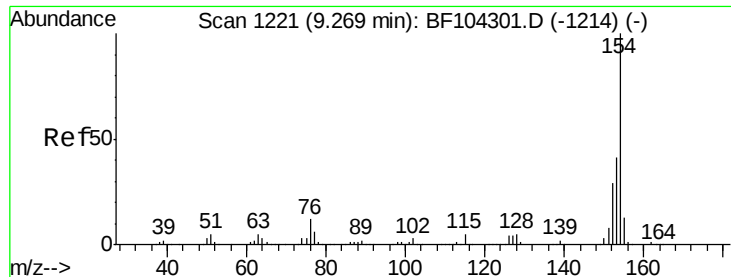
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#44
 2-Fluorobiphenyl
 Concen: 38.794 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF105088.D
 Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	23.5	19.6	29.4





#45

1,1'-Biphenyl

Concen: 7.518 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.02 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

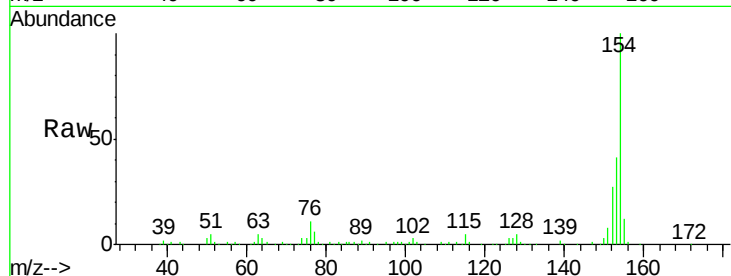
ClientSampleId :

SU-03-050118-A

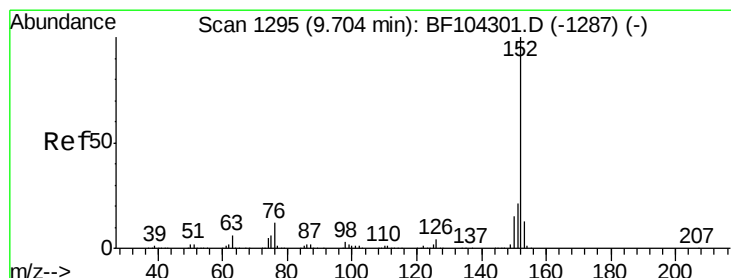
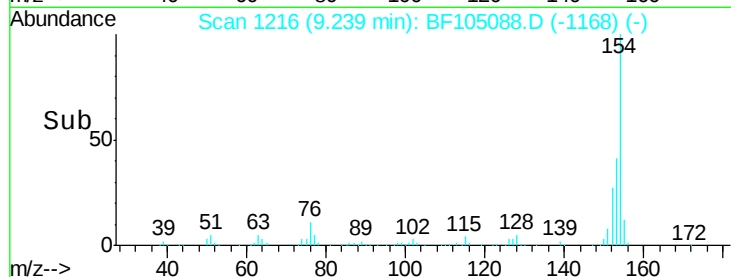
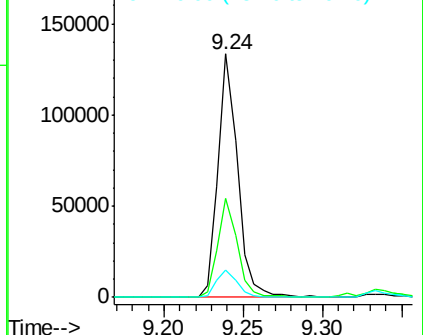
Tot Ion:	154	Resp:	115746
Ion Ratio	Lower	Upper	
154	100		
153	40.7	21.3	61.3
76	11.1	0.0	34.0

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 10.695 ng

RT: 9.68 min Scan# 1291

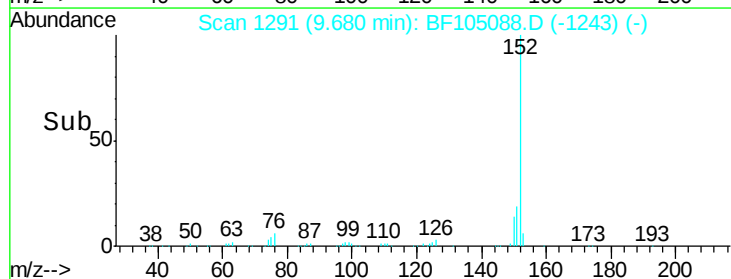
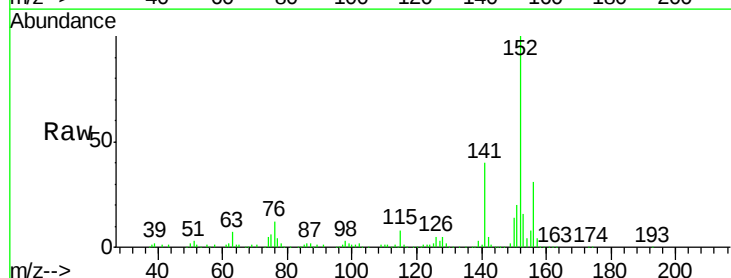
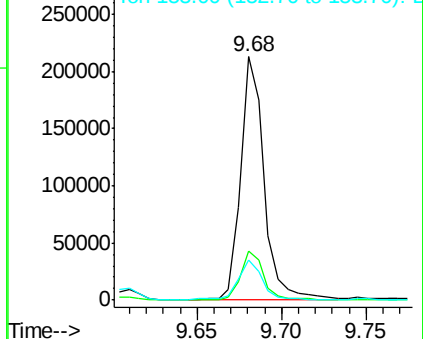
Delta R.T. -0.02 min

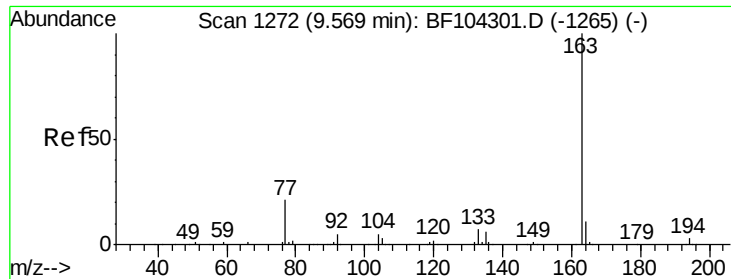
Lab File: BF105088.D

Acq: 3 May 2018 22:19

Tgt Ion:	152	Resp:	204065
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	16.2	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





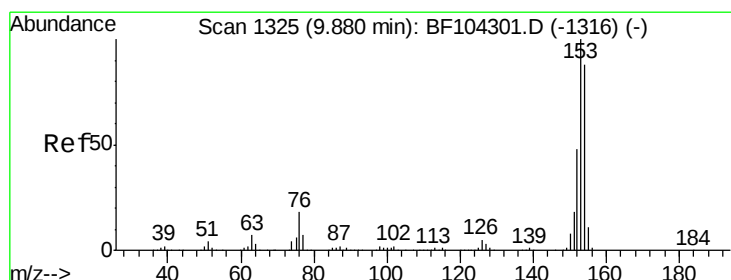
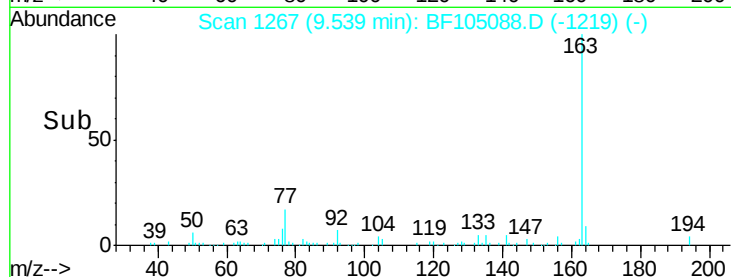
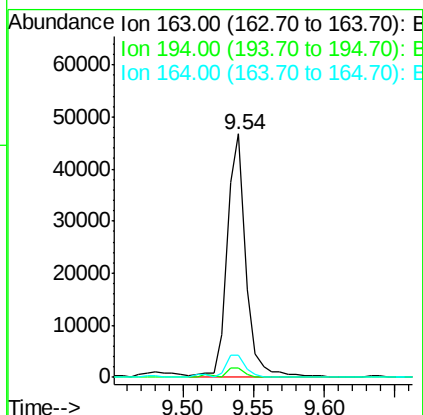
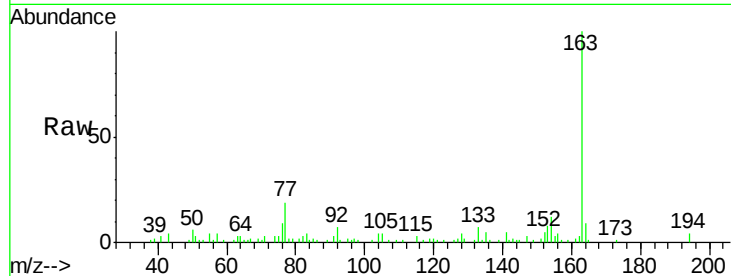
#49
Dimethylphthalate
Concen: 2.984 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.7	4.1
164	9.2	8.2	12.2

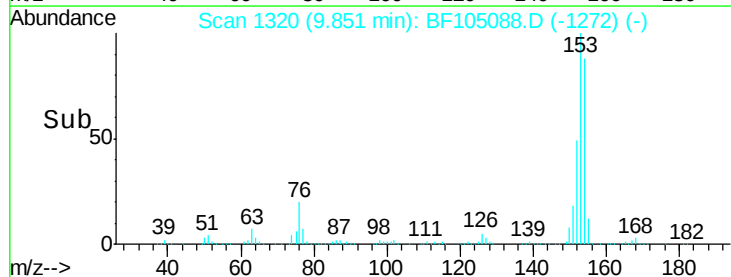
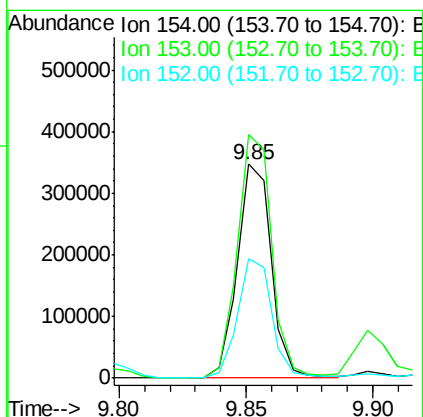
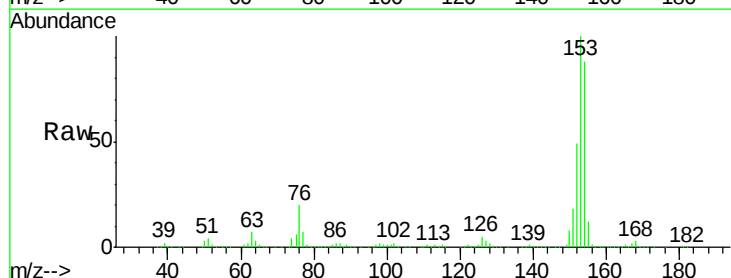
Manual Integrations
APPROVED

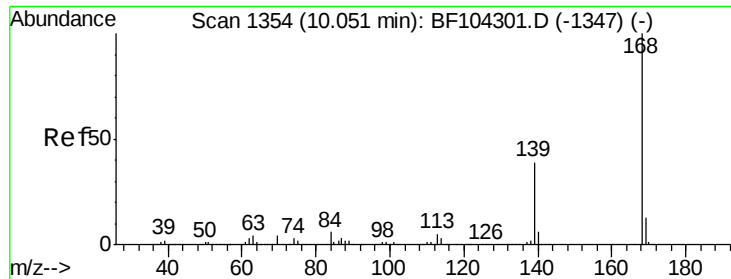
Sohil
5/4/2018 10:51:52 AM



#51
Acenaphthene
Concen: 27.604 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.0	91.2	136.8
152	55.8	43.8	65.8





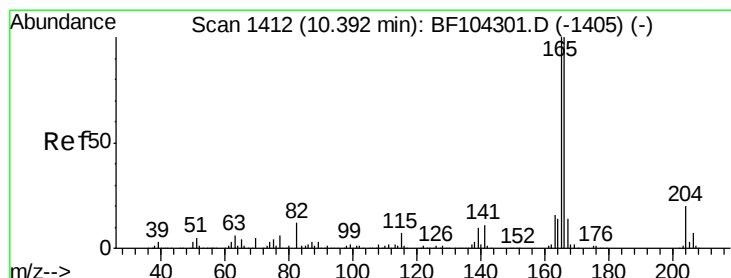
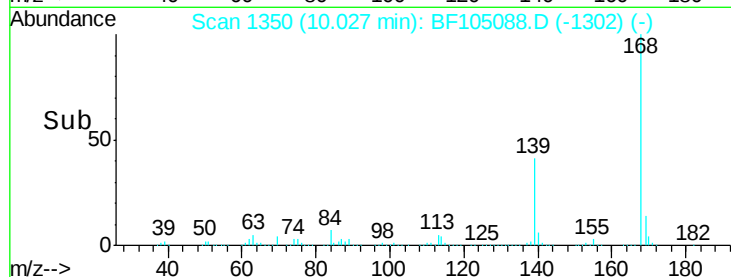
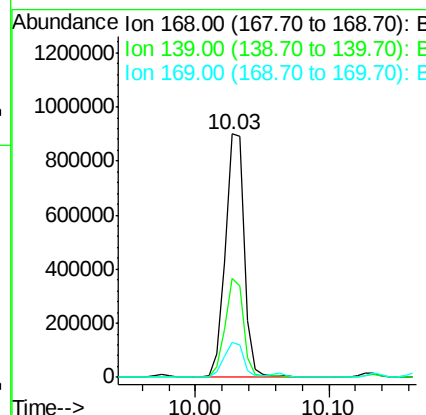
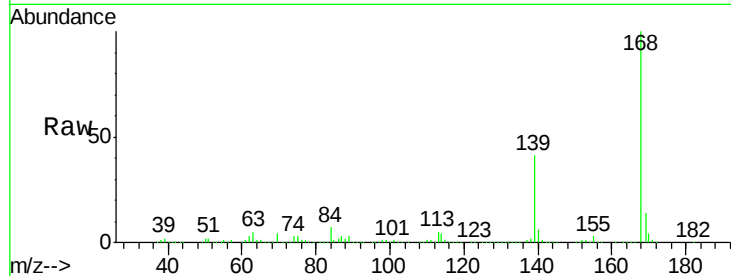
#54
Dibenzenofuran
Concen: 55.978 ng
RT: 10.03 min Scan# 1350
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.6		30.1	45.1
169	14.3		10.9	16.3

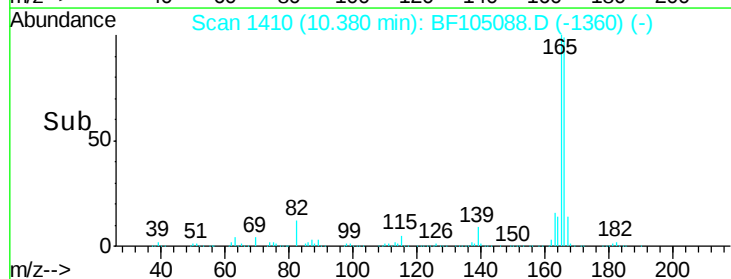
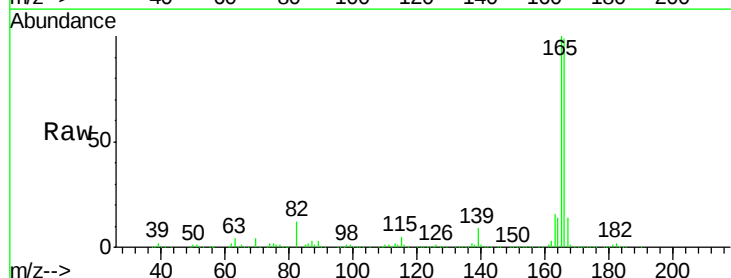
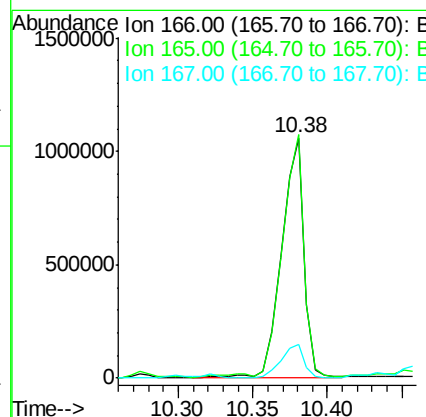
Manual Integrations
APPROVED

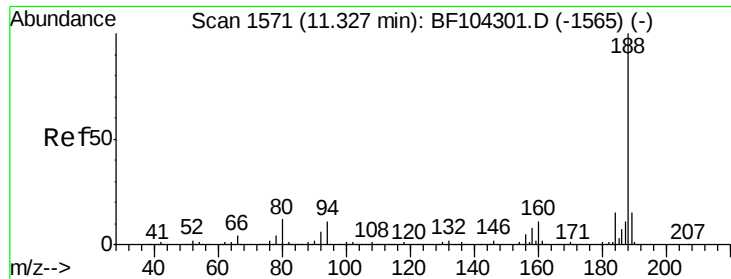
Sohil
5/4/2018 10:51:52 AM



#57
Fluorene
Concen: 93.496 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.5		79.8	119.8
167	14.3		10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

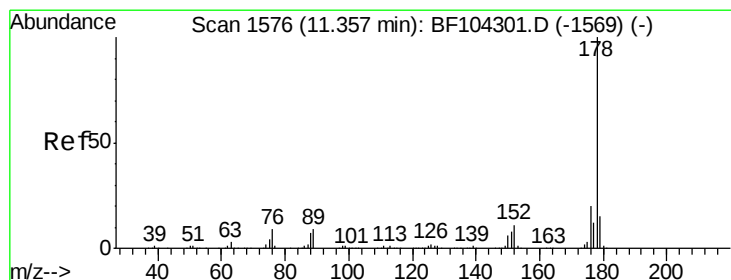
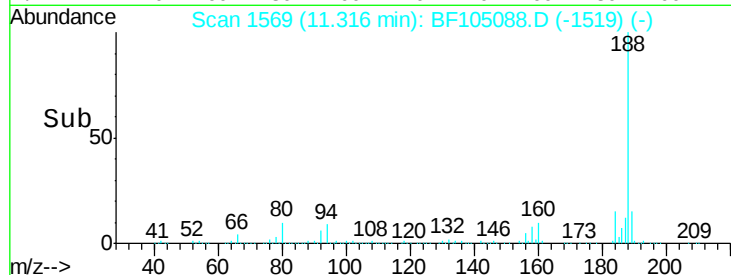
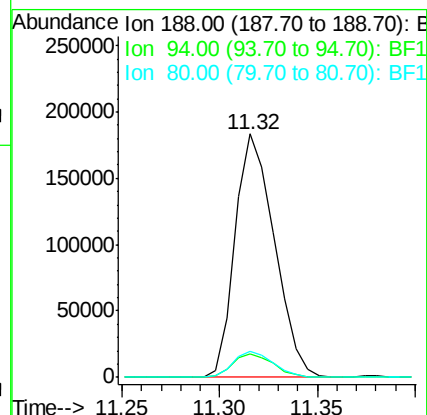
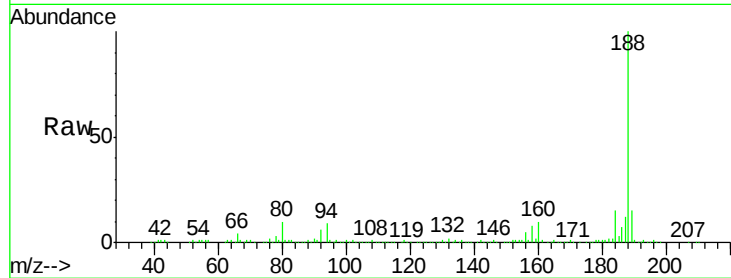
ClientSampleId :

SU-03-050118-A

Tot Ion:	188	Resp:	256847
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.5	12.7
80	10.5	9.2	13.8

Manual Integrations
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Sohil
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#70

Phenanthrene

Concen: 253.120 ng

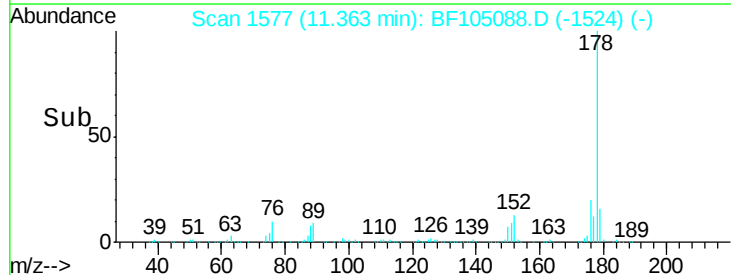
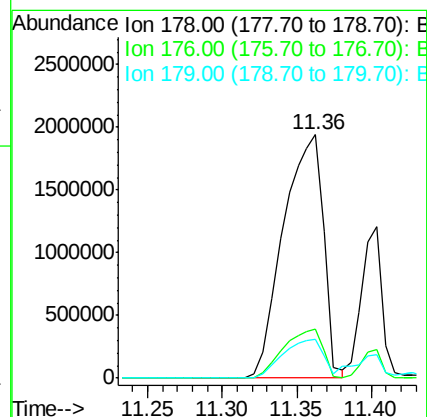
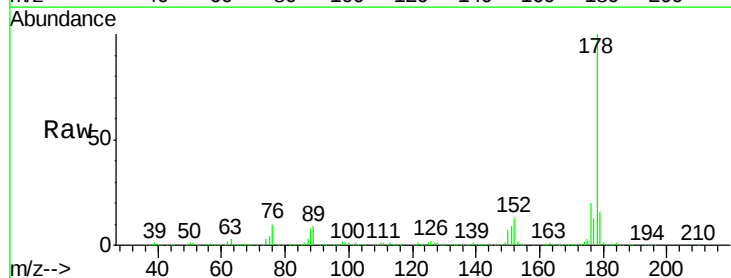
RT: 11.36 min Scan# 1577

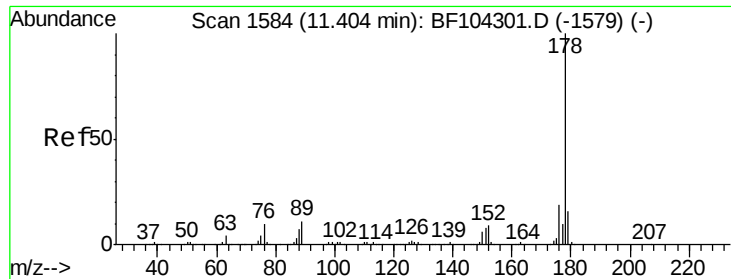
Delta R.T. 0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Tgt Ion:	178	Resp:	3620532
Ion Ratio	Lower	Upper	
178	100		
176	20.4	15.8	23.8
179	16.0	13.0	19.6





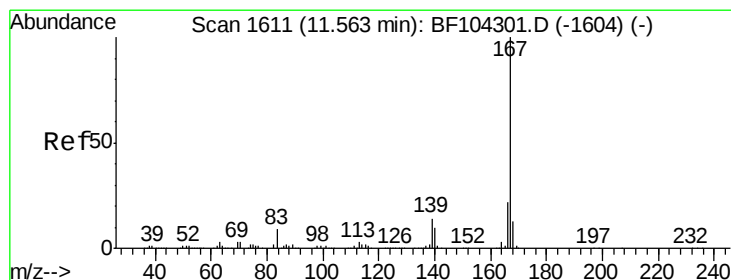
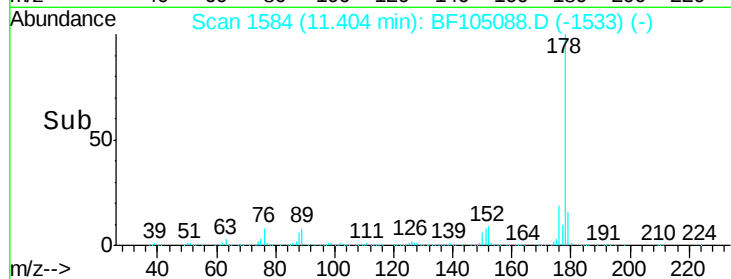
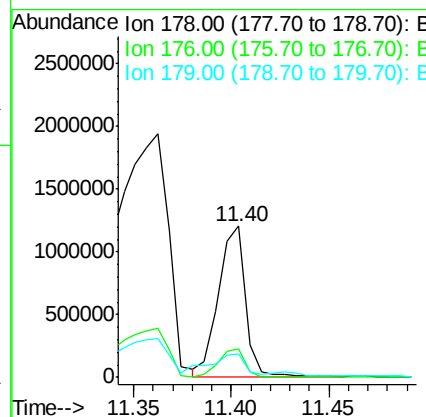
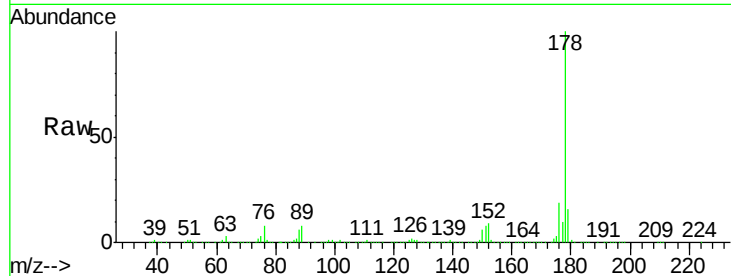
#71
 Anthracene
 Concen: 79.256 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: BF105088.D
 Acq: 3 May 2018 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-050118-A

Tot Ion:178 Resp: 1152375
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.2
 179 15.9 12.6 19.0

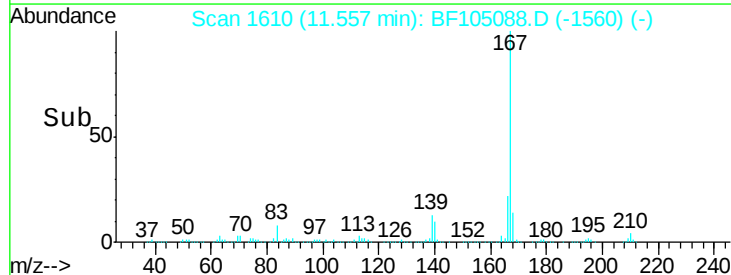
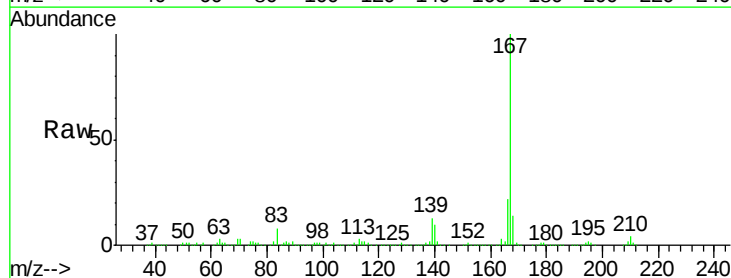
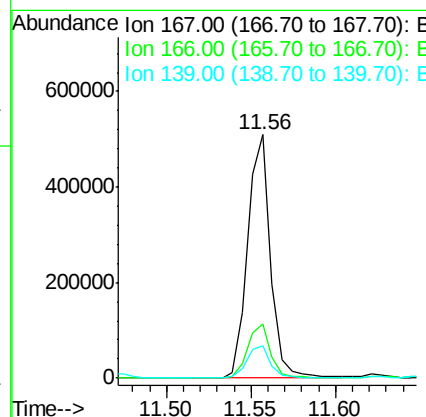
Manual Integrations
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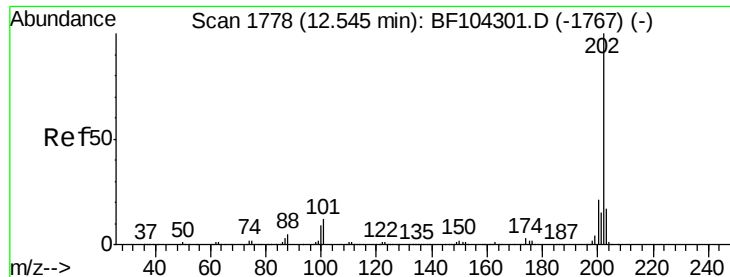
Sohil
 5/4/2018 10:51:52 AM



#72
 Carbazole
 Concen: 33.737 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF105088.D
 Acq: 3 May 2018 22:19

Tgt Ion:167 Resp: 479334
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.6 26.4
 139 13.3 10.9 16.3





#74

Fluoranthene

Concen: 184.100 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

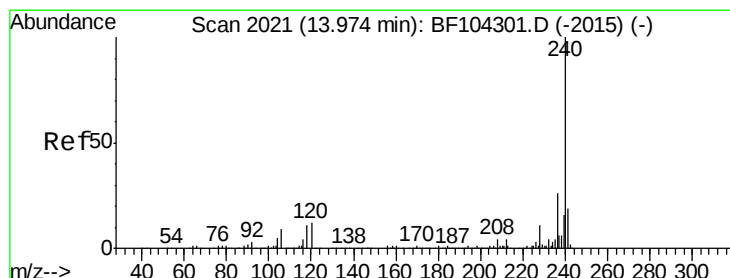
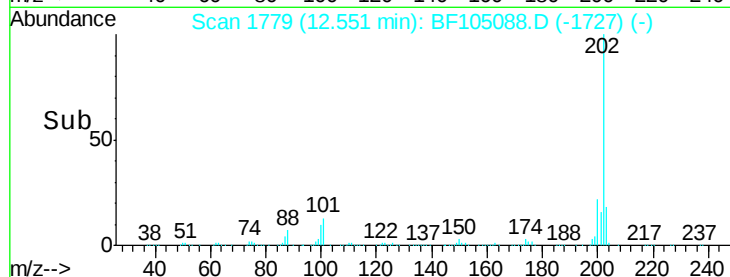
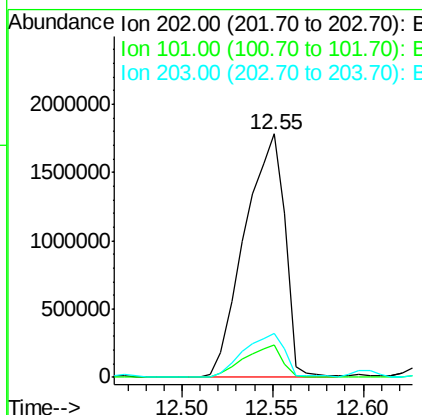
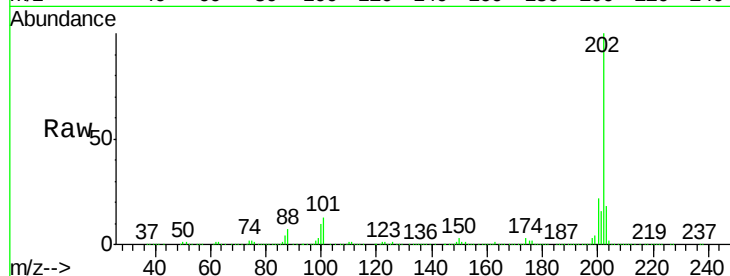
ClientSampleId :

SU-03-050118-A

Tot Ion:	202	Resp:	2751288
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	34.1
203	17.8	0.0	38.1

Manual Integrations
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Sohil
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#75

Chrysene-d12

Concen: 20.000 ng

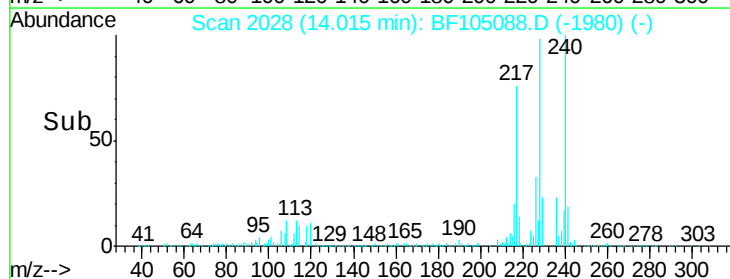
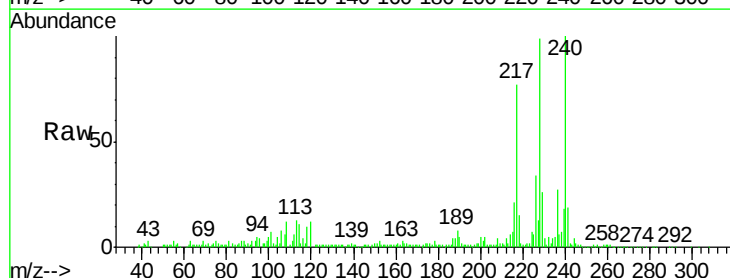
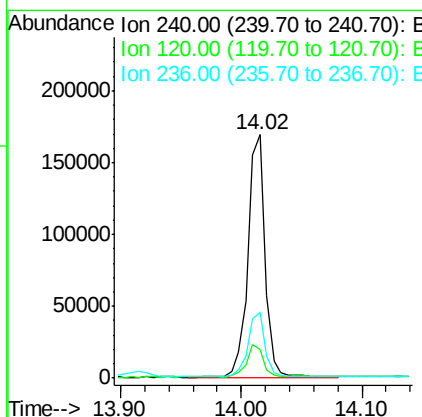
RT: 14.02 min Scan# 2028

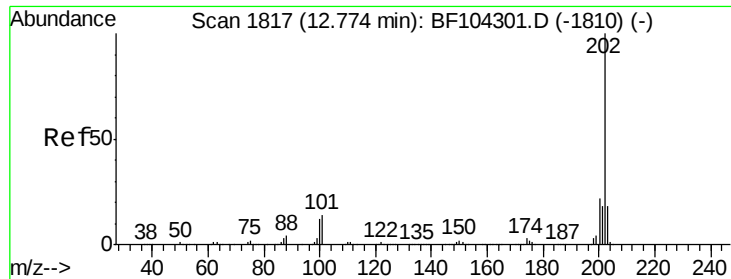
Delta R.T. -0.02 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Tgt Ion:	240	Resp:	169238
Ion Ratio	Lower	Upper	
240	100		
120	11.5	9.5	14.3
236	27.2	20.7	31.1





#77

Pvrene

Concen: 178.471 ng

RT: 12.78 min Scan# 1818

Delta R.T. 0.01 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

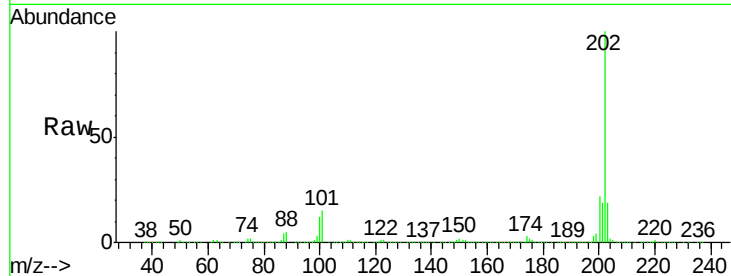
ClientSampleId :

SU-03-050118-A

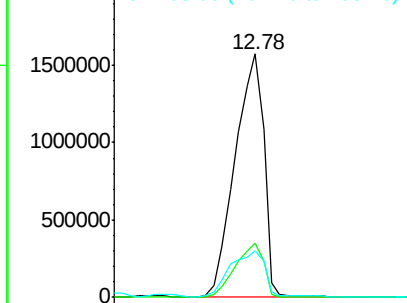
Tot Ion:	202	Resp:	2238836
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.4	26.2
203	18.8	14.3	21.5

Manual Integrations
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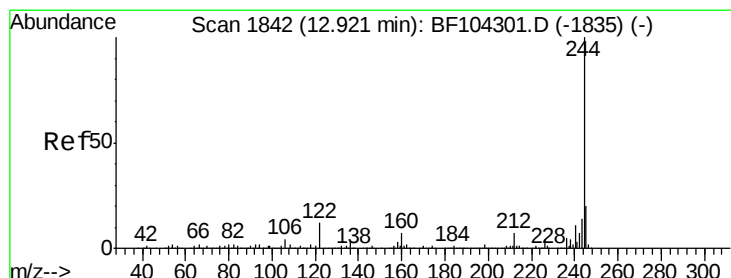
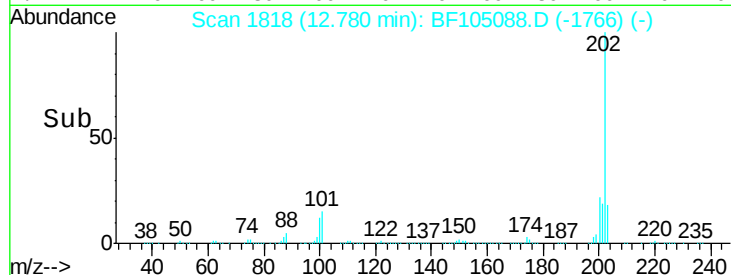
Sohil
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 42.185 ng

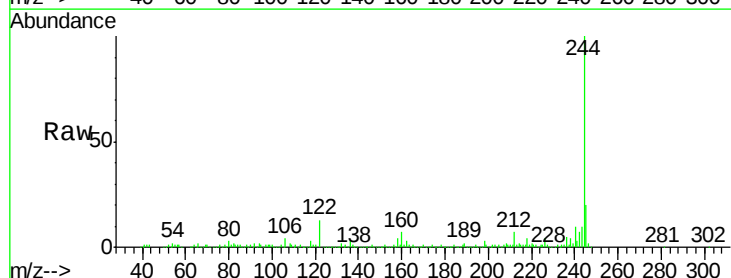
RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

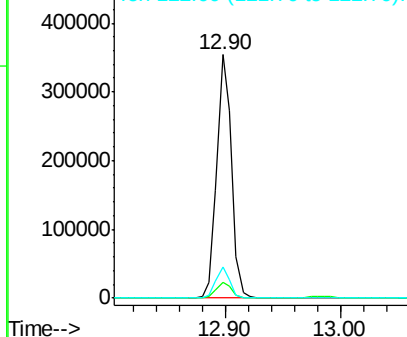
Lab File: BF105088.D

Acq: 3 May 2018 22:19

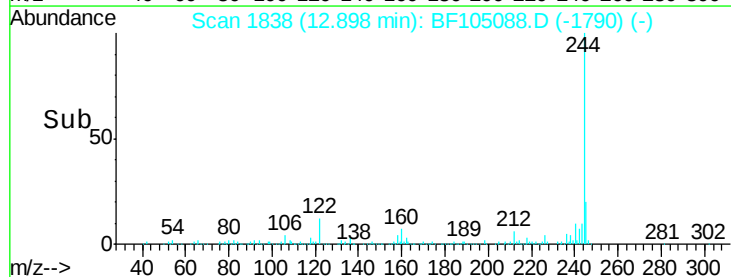
Tgt Ion:	244	Resp:	313152
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	12.6	11.0	16.4

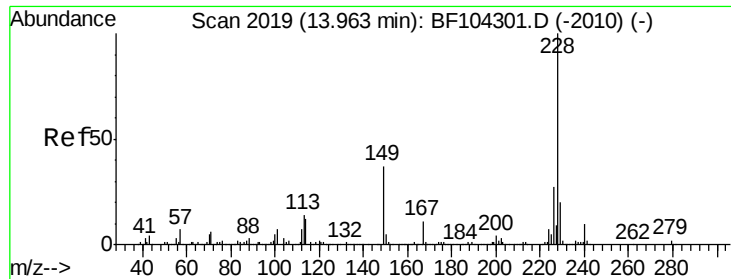


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





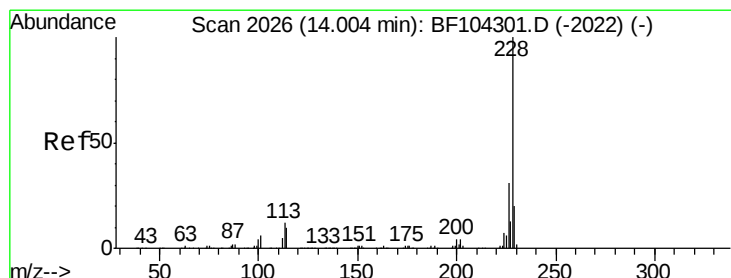
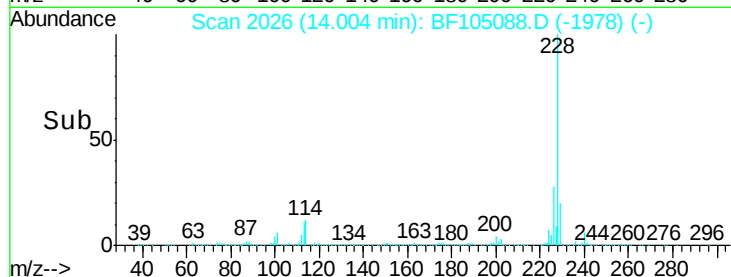
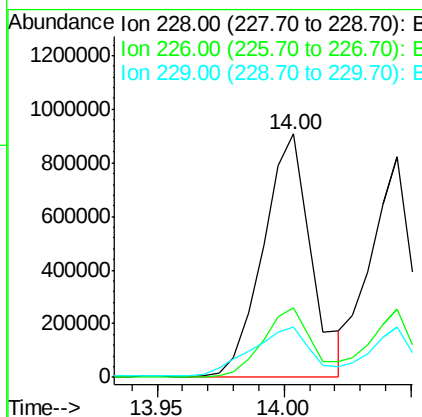
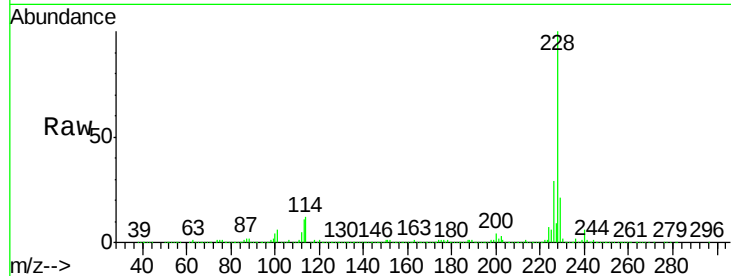
#80
Benzo(a)anthracene
Concen: 118.069 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	20.7	15.8	23.6

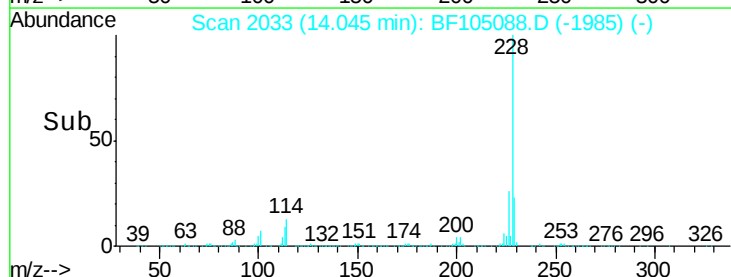
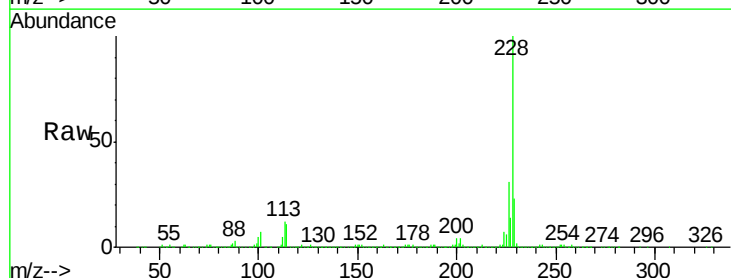
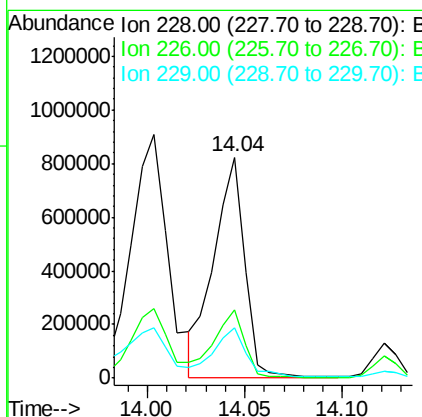
Manual Integrations
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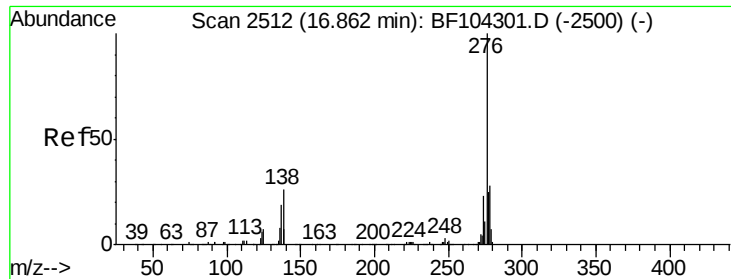
Sohil
5/4/2018 10:51:52 AM



#82
Chrysene
Concen: 86.872 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.02 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.8	16.2	24.4





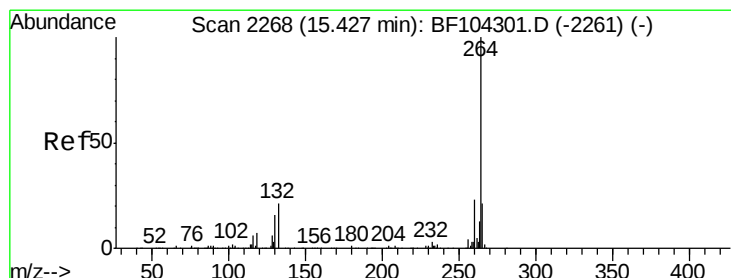
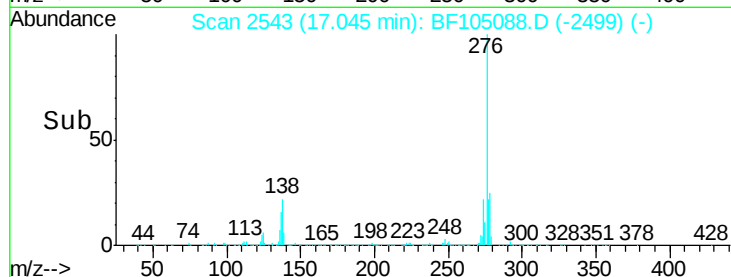
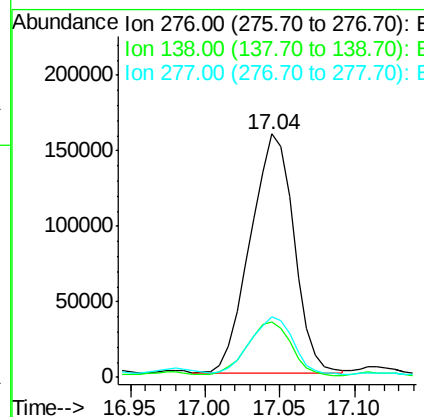
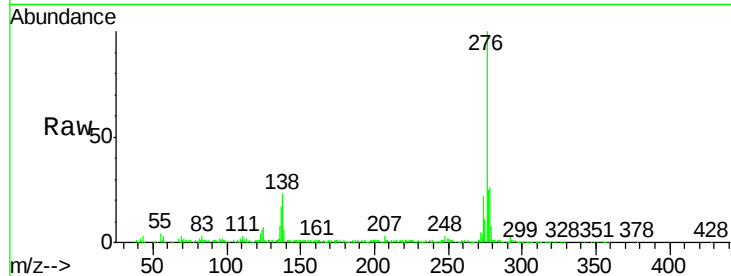
#85
Indeno(1,2,3-cd)pyrene
Concen: 36.223 ng
RT: 17.04 min Scan# 2543
Delta R.T. -0.04 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.5	25.0	37.6#
277	23.3	20.1	30.1

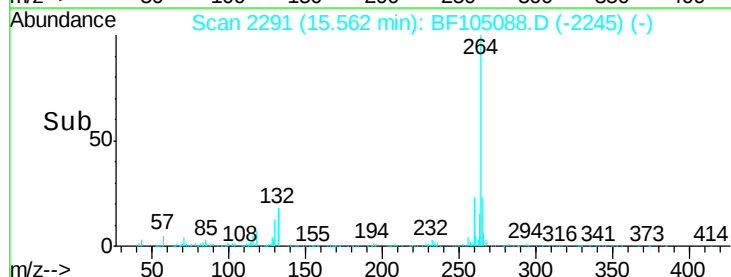
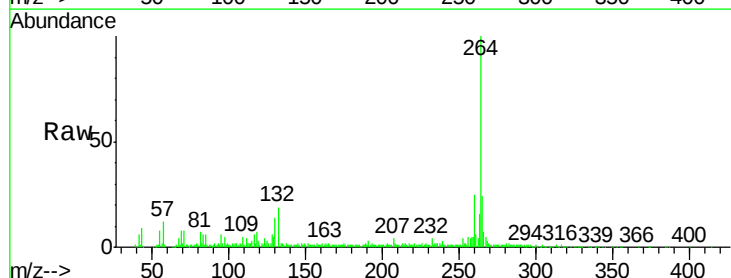
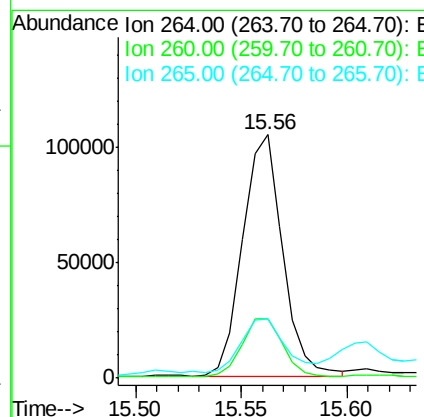
Manual Integrations
APPROVED

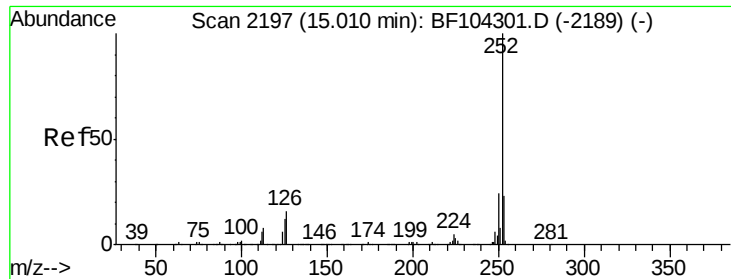
Sohil
5/4/2018 10:51:52 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2291
Delta R.T. -0.03 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	24.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 107.646 ng m

RT: 15.13 min Scan# 2218

Delta R.T. -0.03 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Instrument :

BNA_F

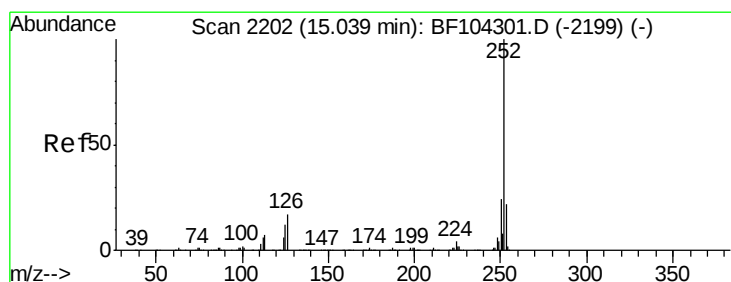
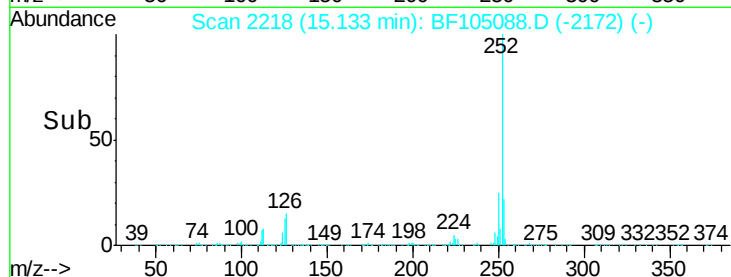
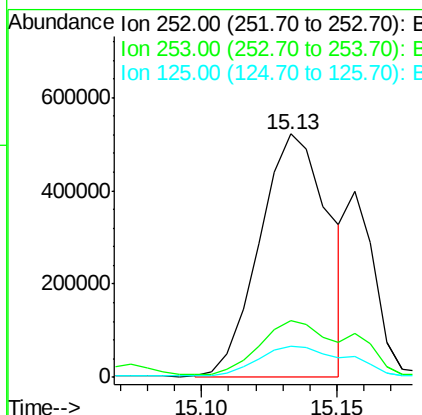
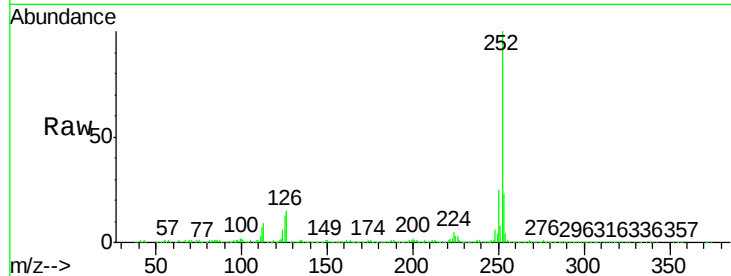
ClientSampleId :

SU-03-050118-A

Tot Ion:	252	Resp:	931248
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.6
125	12.9	9.0	13.6

Manual Integrations
APPROVED

Sohil
5/4/2018 10:51:52 AM



#88

Benzo(k)fluoranthene

Concen: 34.951 ng m

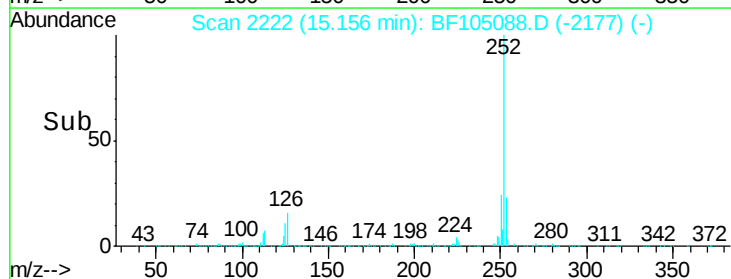
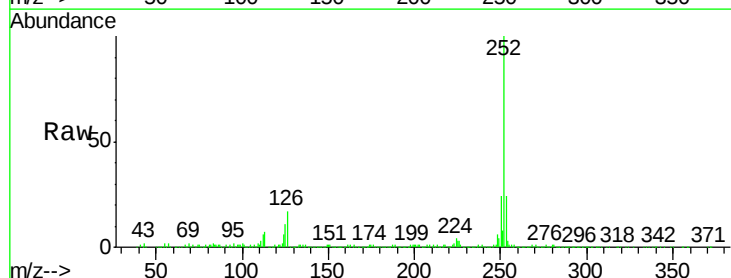
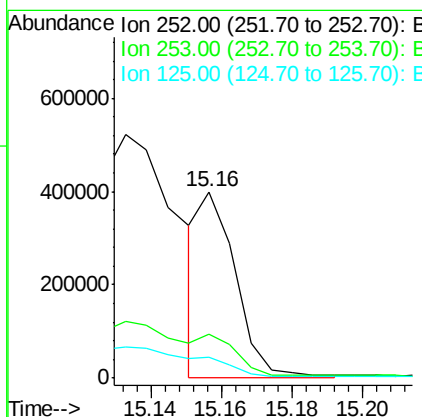
RT: 15.16 min Scan# 2222

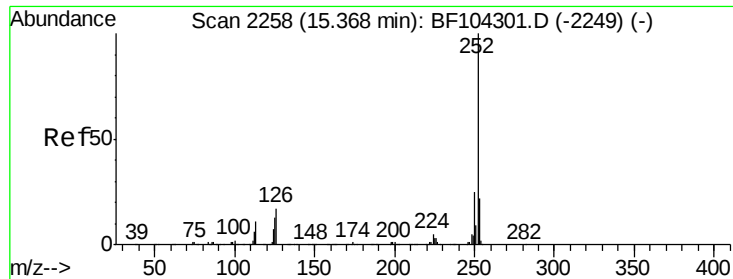
Delta R.T. -0.04 min

Lab File: BF105088.D

Acq: 3 May 2018 22:19

Tgt Ion:	252	Resp:	285460
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	11.5	10.2	15.2





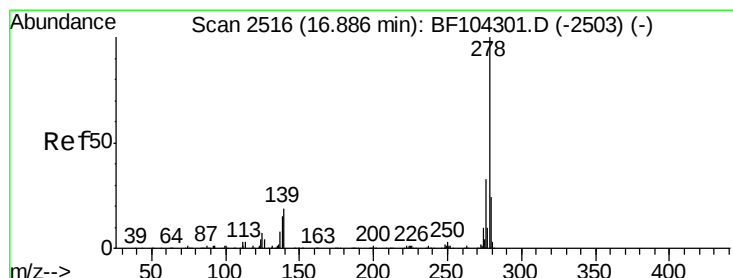
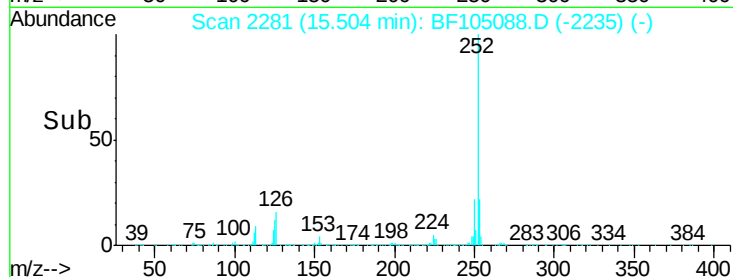
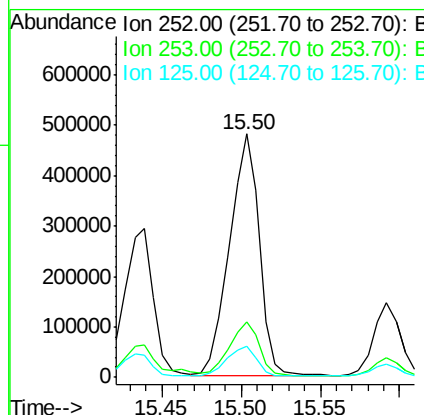
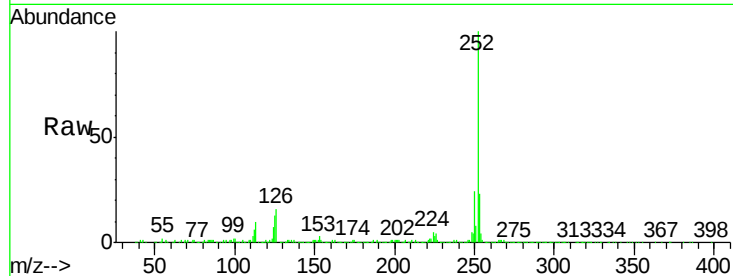
#89
Benzo(a)pyrene
Concen: 81.388 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.03 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Instrument :
BNA_F
ClientSampleId :
SU-03-050118-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.1	25.7
125	13.0	9.8	14.6

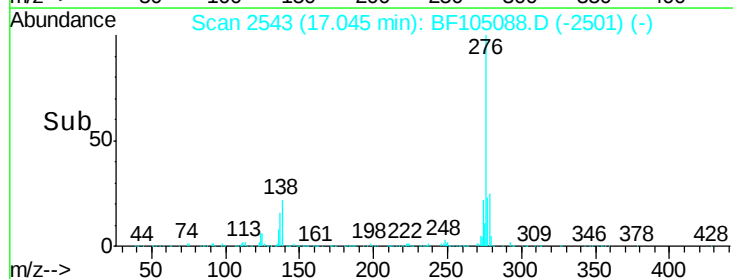
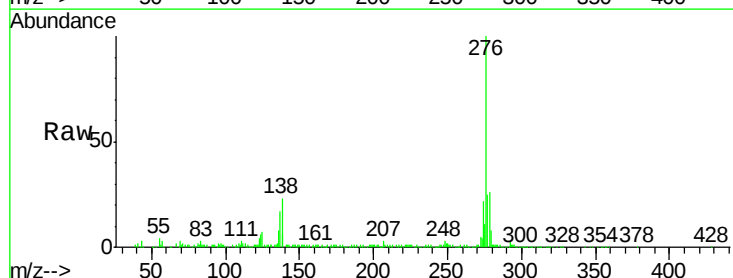
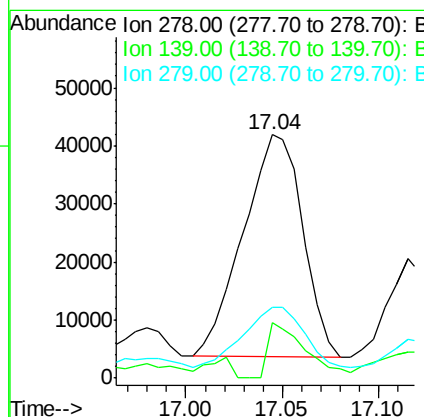
Manual Integrations
APPROVED

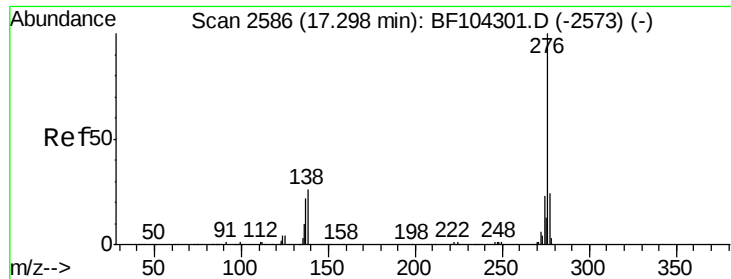
Sohil
5/4/2018 10:51:52 AM



#90
Dibenzo(a,h)anthracene
Concen: 12.952 ng m
RT: 17.04 min Scan# 2543
Delta R.T. -0.05 min
Lab File: BF105088.D
Acq: 3 May 2018 22:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.7	15.9	23.9
279	29.1	19.0	28.4





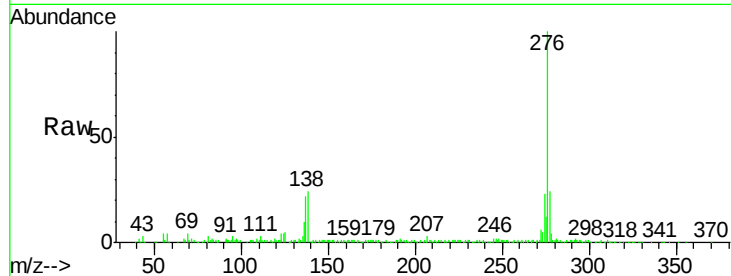
#91
 Benzo(a,h,i)perylene
 Concen: 45.799 ng
 RT: 17.49 min Scan# 2619
 Delta R.T. -0.04 min
 Lab File: BF105088.D
 Acq: 3 May 2018 22:19

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-050118-A

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.7	17.9	26.9
138	23.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 5/4/2018 10:51:52 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

