

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104797.D
 Acq On : 25 Apr 2018 19:00
 Operator : JU/SJ
 Sample : J2156-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-042418

Manual Integrations
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 4/26/2018 6:09:47 PM

Quant Time: Apr 26 11:45:18 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105348	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	429513	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	172500	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	245582	20.00	ng	0.00
75) Chrysene-d12	13.99	240	203442	20.00	ng	0.00
86) Perylene-d12	15.46	264	153638	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	625918	90.85	ng	0.00
7) Phenol-d6	6.44	99	777676	91.87	ng	0.00
23) Nitrobenzene-d5	7.37	82	474063	72.07	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	151167	84.48	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	842327	77.14	ng	0.00
78) Terphenyl-d14	12.93	244	583749	65.42	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.10	128	78002	3.647	ng	98
37) 2-Methylnaphthalene	8.80	142	37616	2.719	ng	99
49) Dimethylphthalate	9.55	163	64629	4.751	ng	# 99
51) Acenaphthene	9.87	154	34380	3.138	ng	98
54) Dibenzofuran	10.05	168	50872	3.331	ng	# 92
57) Fluorene	10.39	166	74302	6.685	ng	# 98
70) Phenanthrene	11.36	178	442769	32.375	ng	99
71) Anthracene	11.41	178	133638	9.613	ng	97
72) Carbazole	11.57	167	35018	2.578	ng	# 96
74) Fluoranthene	12.56	202	566789	39.666	ng	97
77) Pyrene	12.79	202	530670	35.191	ng	99
80) Benzo(a)anthracene	13.97	228	293742	24.169	ng	96
82) Chrysene	14.01	228	257989	20.666	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	116529	10.988	ng	# 91
87) Benzo(b)fluoranthene	15.03	252	305614m	31.495	ng	
88) Benzo(k)fluoranthene	15.06	252	117055m	12.778	ng	
89) Benzo(a)pyrene	15.39	252	216515	24.938	ng	94
90) Dibenzo(a,h)anthracene	16.93	278	28790	4.037	ng	# 87
91) Benzo(a,h,i)perylene	17.37	276	113701	16.458	ng	93

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

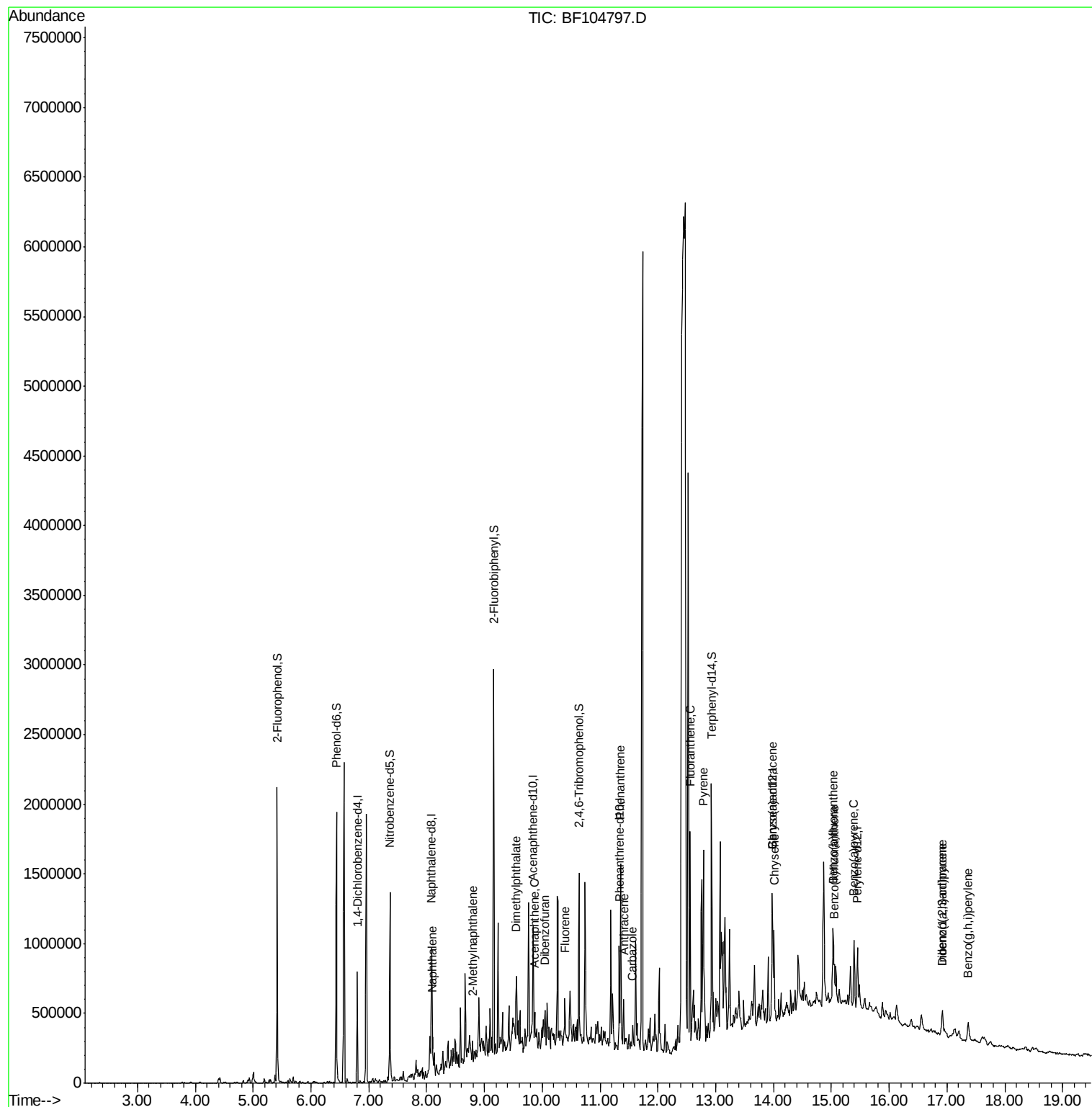
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
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ALS Vial : 18 Sample Multiplier: 1

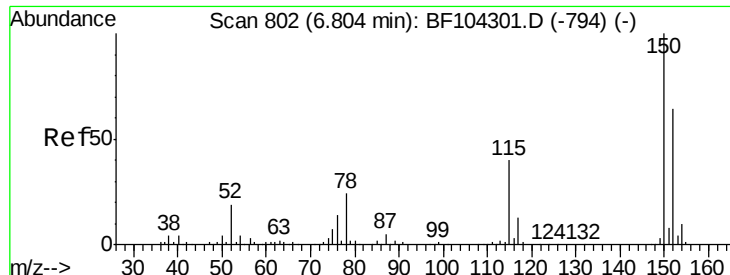
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#1

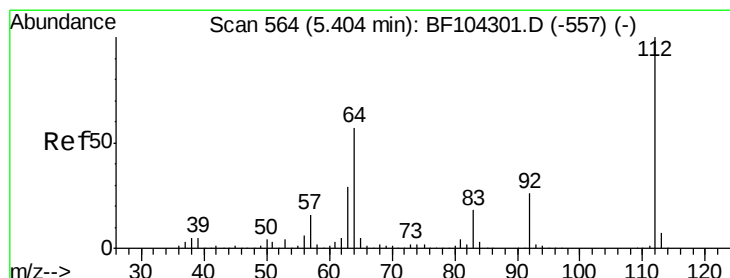
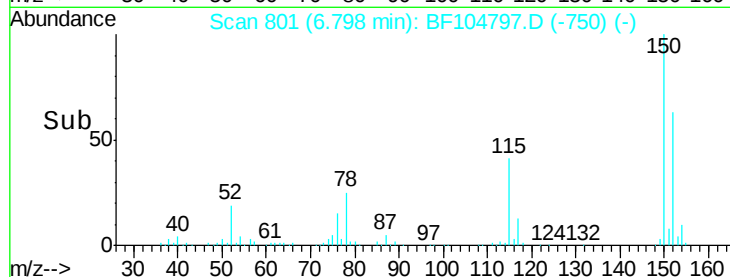
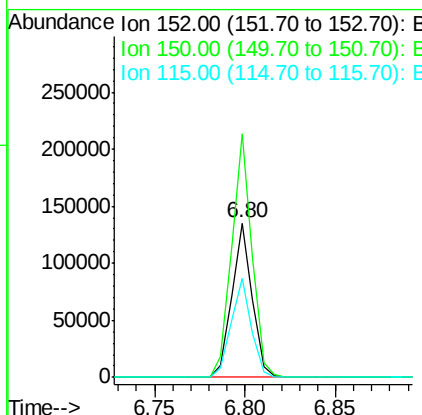
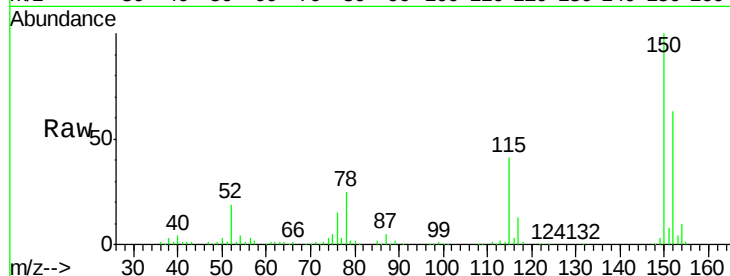
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	64.5	50.1	75.1

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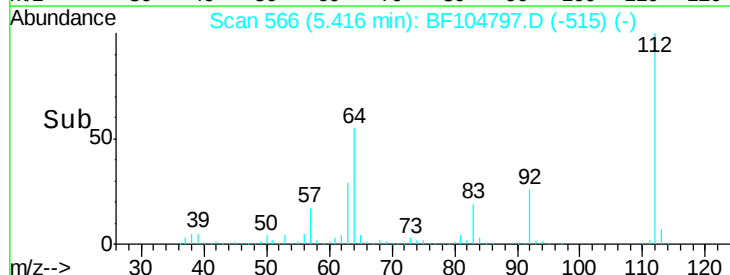
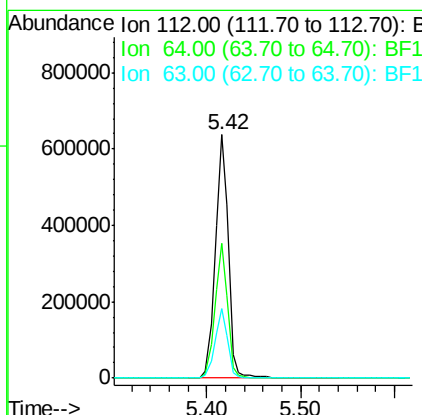
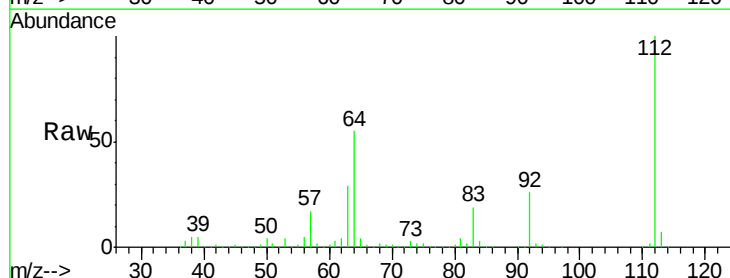
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#5

2-Fluorophenol
Concen: 90.848 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	47.9	71.9
63	28.8	23.7	35.5





#7

Phenol-d6

Concen: 91.867 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Instrument :

BNA_F

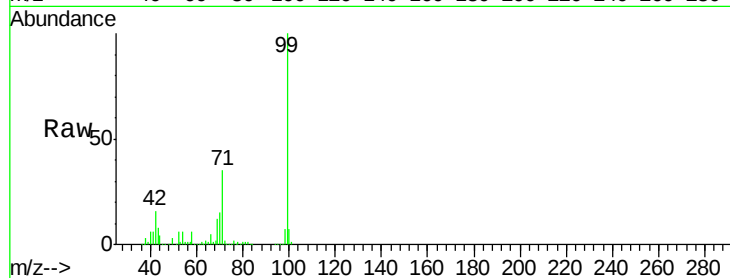
ClientSampleId :

HD-02-042418

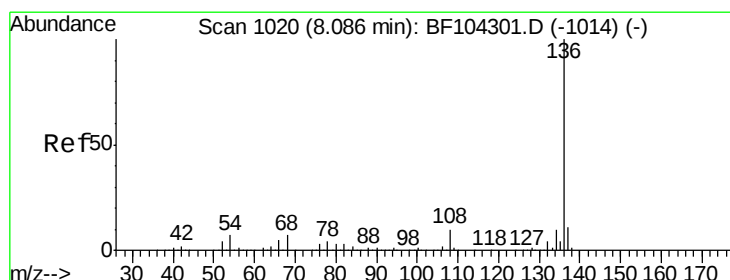
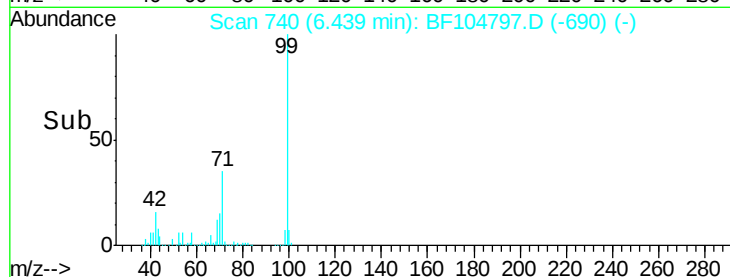
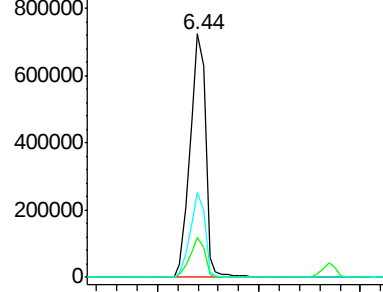
Tot Ion:	99	Resp:	777676
Ion	Ratio	Lower	Upper
99	100		
42	16.3	14.5	21.7
71	35.1	25.4	38.0

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

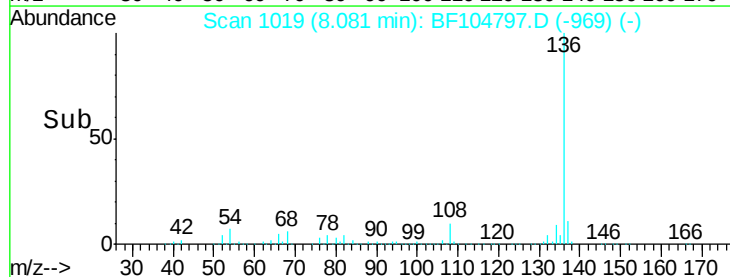
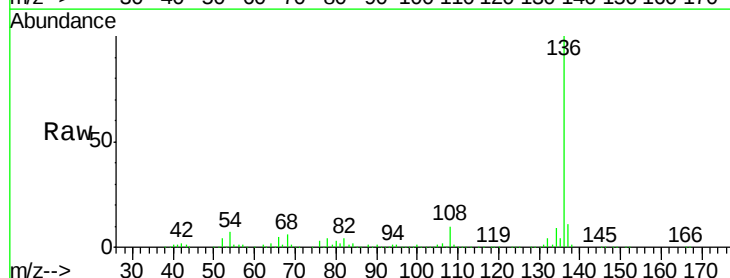
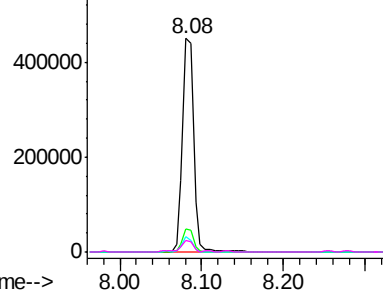
Delta R.T. -0.01 min

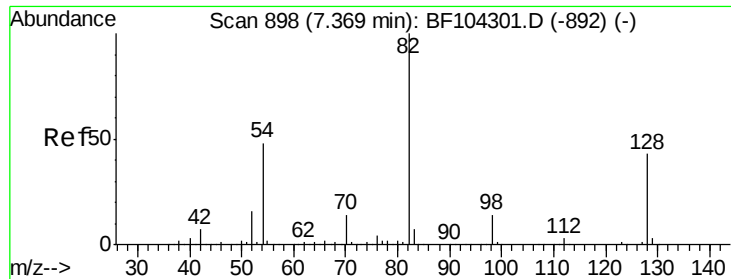
Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Tgt Ion:	136	Resp:	429513
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.0	6.6	9.8
68	5.7	5.0	7.4

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





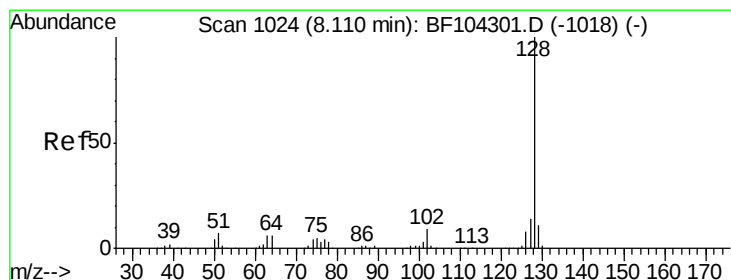
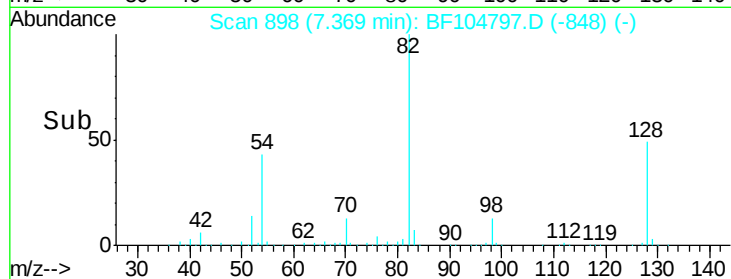
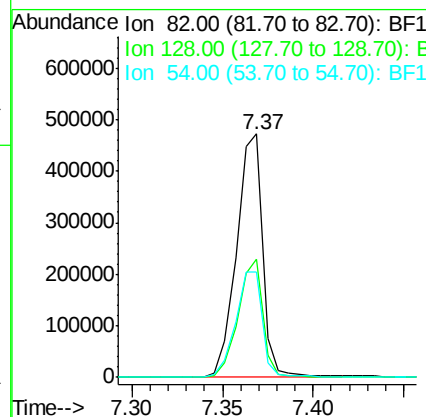
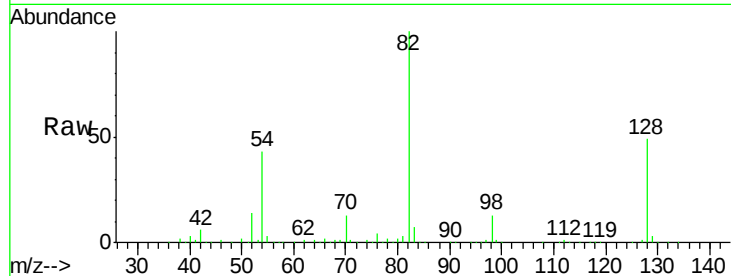
#23
Nitrobenzene-d5
Concen: 72.071 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.7	36.1	54.1
54	43.2	41.4	62.2

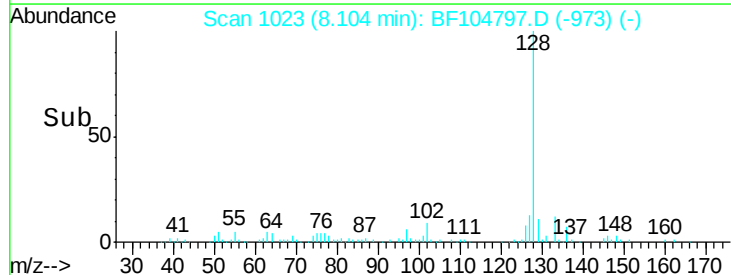
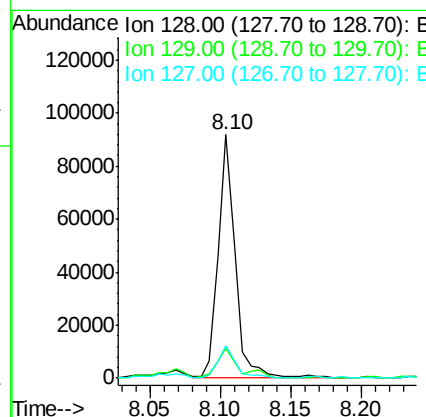
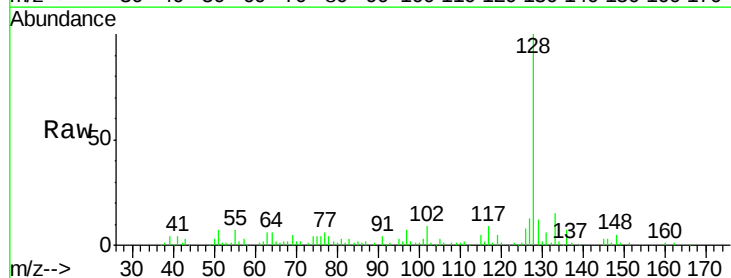
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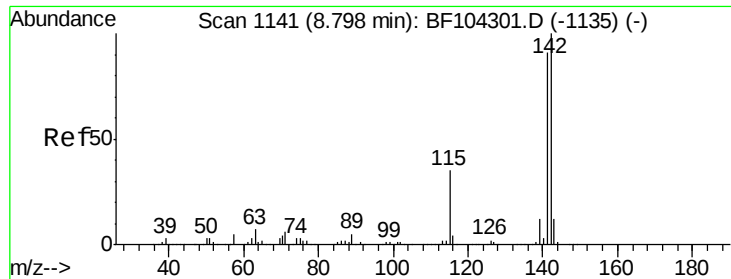
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#31
Naphthalene
Concen: 3.647 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	13.5	10.9	16.3





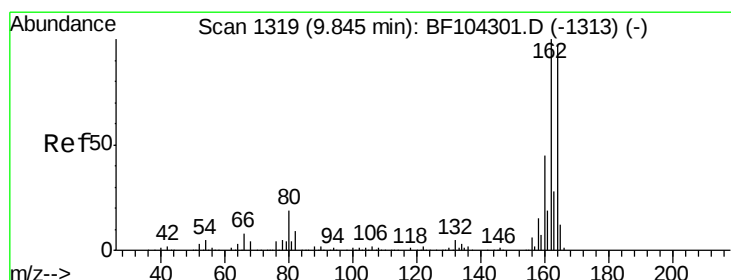
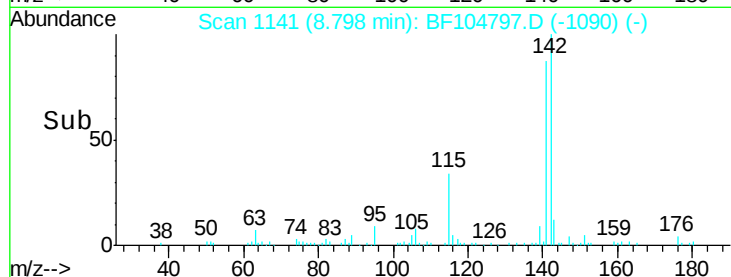
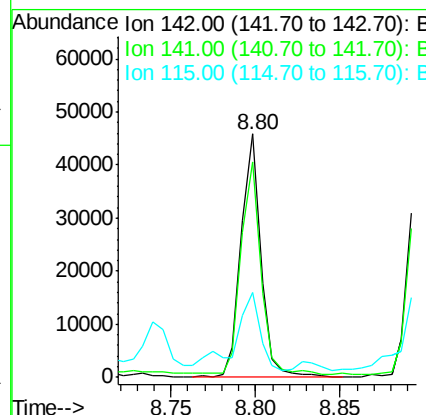
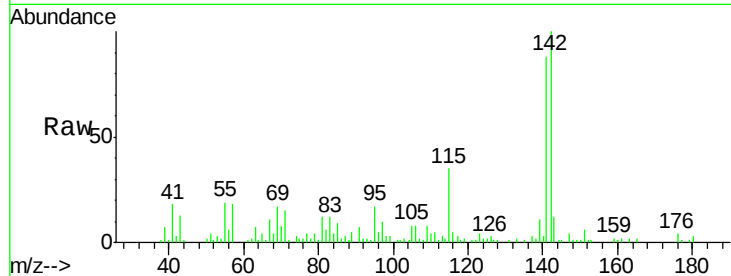
#37
2-Methylnaphthalene
Concen: 2.719 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.8	106.2
115	34.7	26.1	39.1

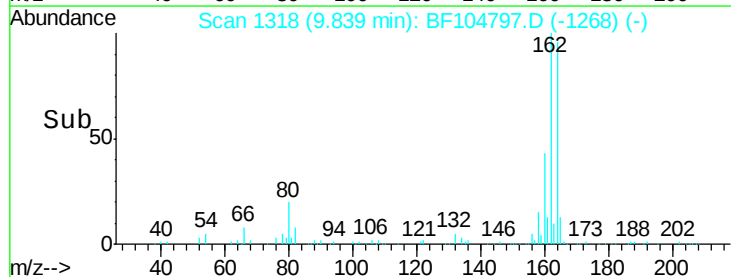
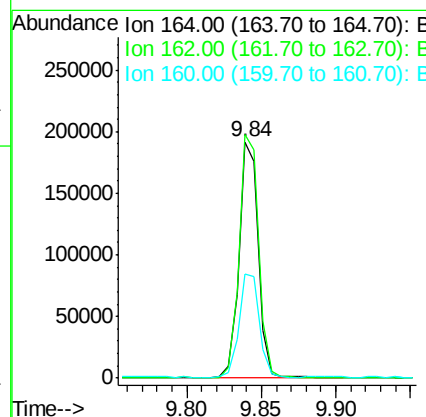
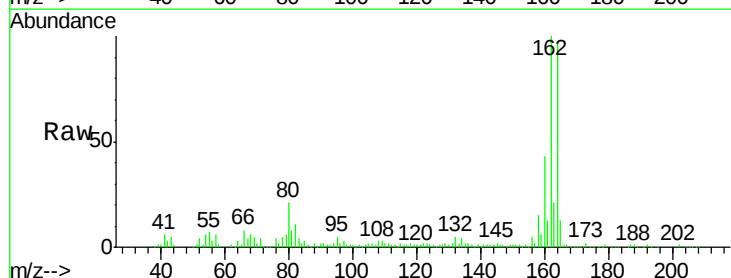
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	86.1	129.1
160	44.3	38.3	57.5





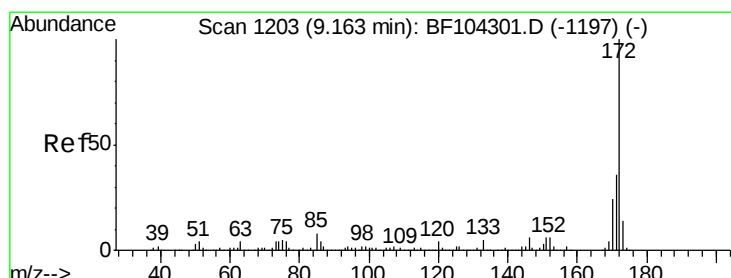
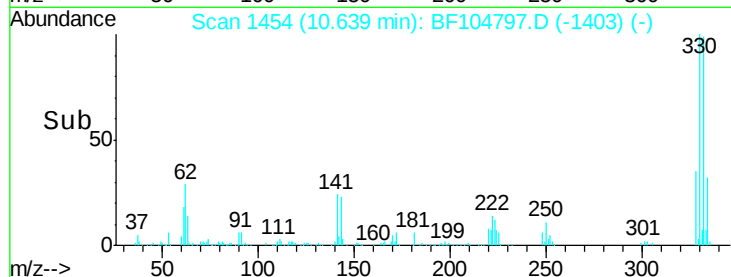
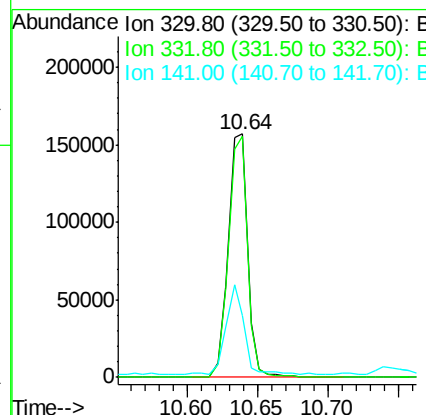
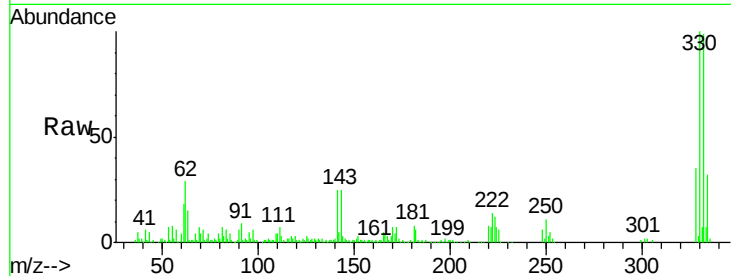
#41
 2,4,6-Tribromophenol
 Concen: 84.480 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.00 min
 Lab File: BF104797.D
 Acq: 25 Apr 2018 19:00

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-042418

Tot Ion	Ratio	Resp	Lower	Upper
330	100	151167		
332	96.7	77.0	115.6	
141	34.7	29.9	44.9	

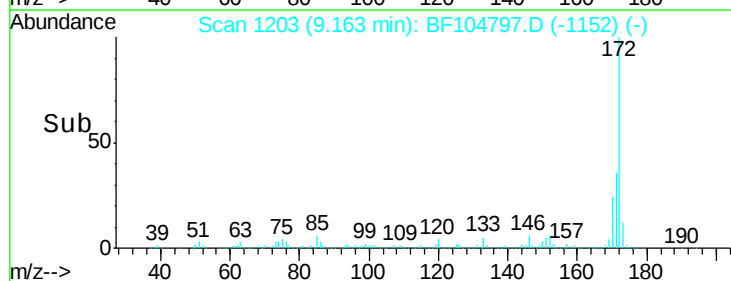
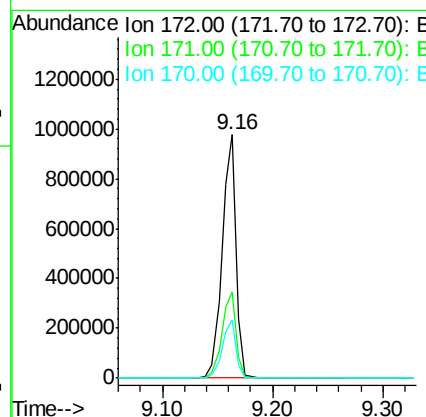
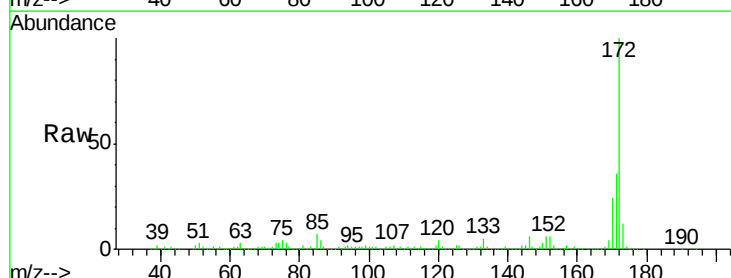
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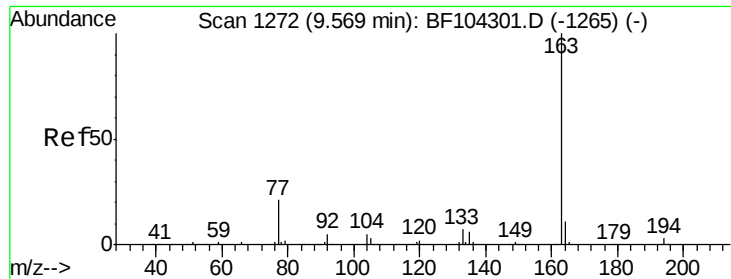
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#44
 2-Fluorobiphenyl
 Concen: 77.140 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: BF104797.D
 Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	842327		
171	35.6	29.7	44.5	
170	23.7	19.6	29.4	





#49

Dimethylphthalate

Concen: 4.751 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Instrument :

BNA_F

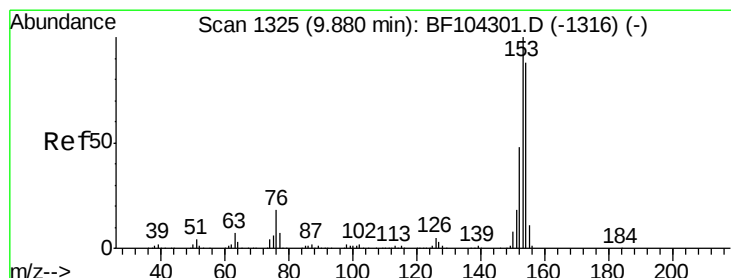
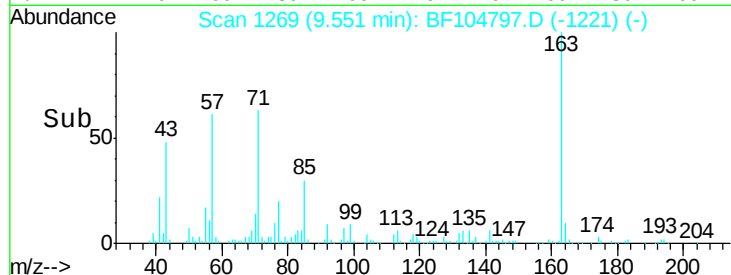
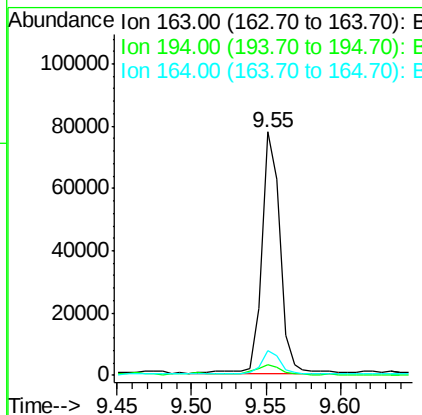
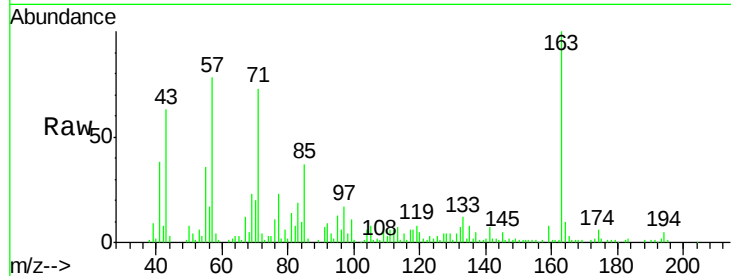
ClientSampleId :

HD-02-042418

Tot Ion:	163	Resp:	64629
Ion Ratio	Lower	Upper	
163	100		
194	4.6	2.7	4.1#
164	10.2	8.2	12.2

Manual Integrations
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#51

Acenaphthene

Concen: 3.138 ng

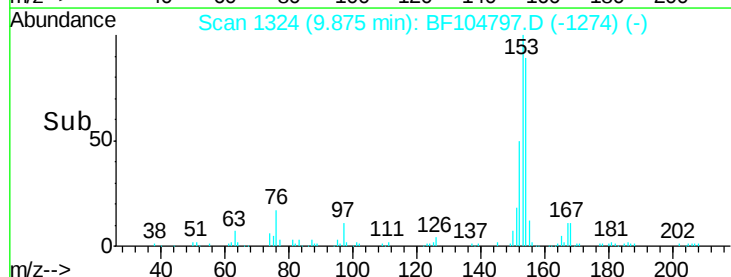
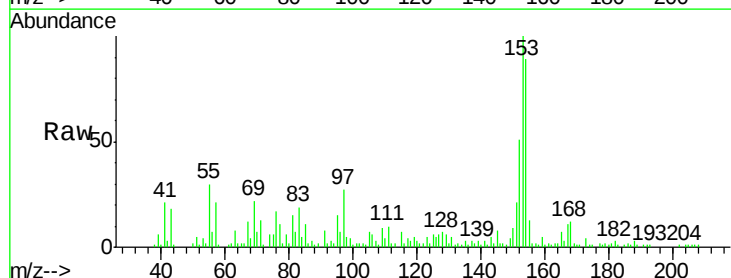
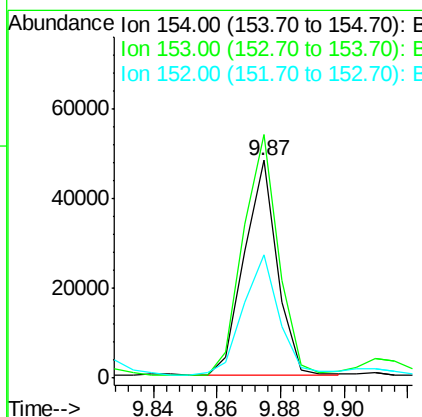
RT: 9.87 min Scan# 1324

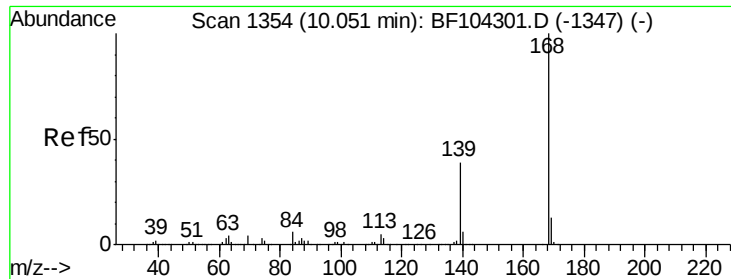
Delta R.T. -0.01 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Tgt Ion:	154	Resp:	34380
Ion Ratio	Lower	Upper	
154	100		
153	112.0	91.2	136.8
152	56.8	43.8	65.8





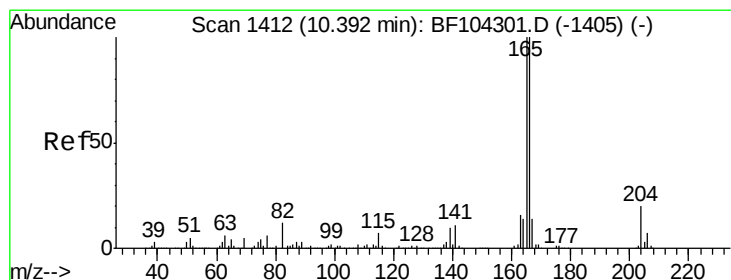
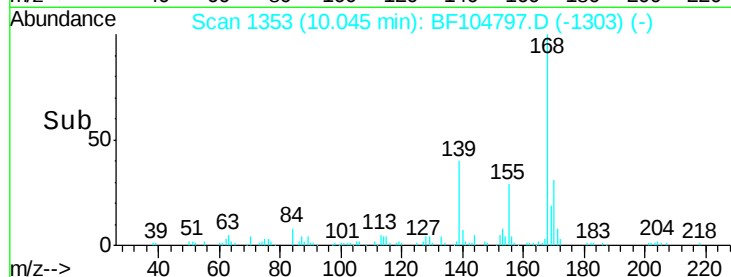
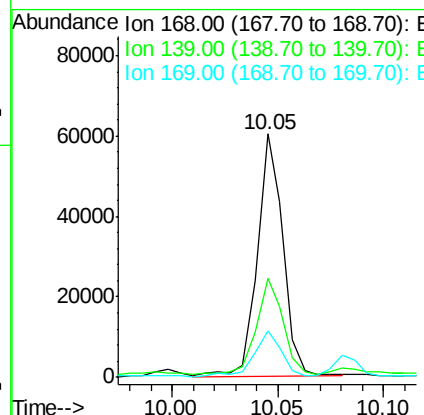
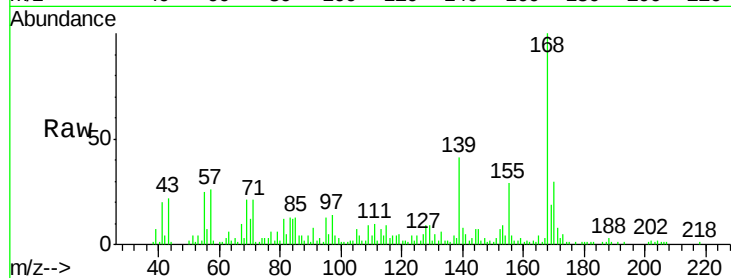
#54
Dibenzofuran
Concen: 3.331 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.8	30.1	45.1
169	19.1	10.9	16.3

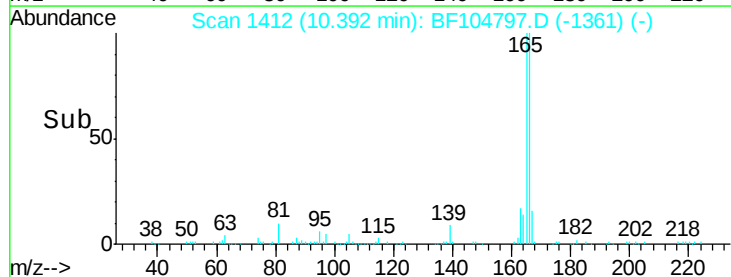
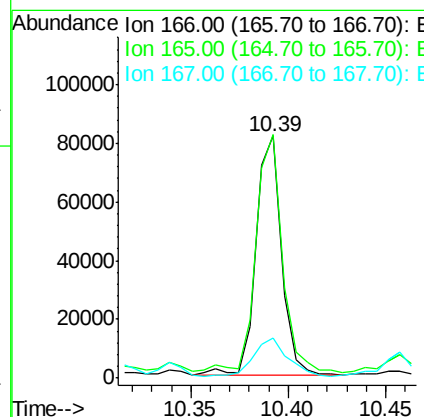
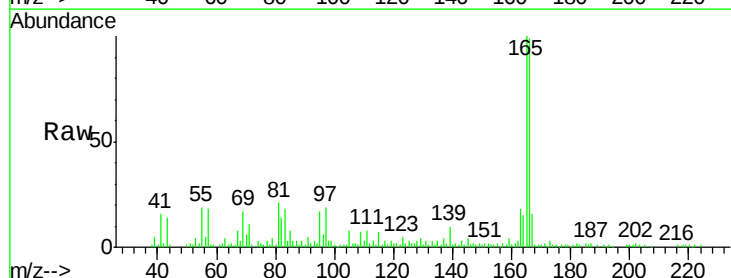
Manual Integrations
APPROVED

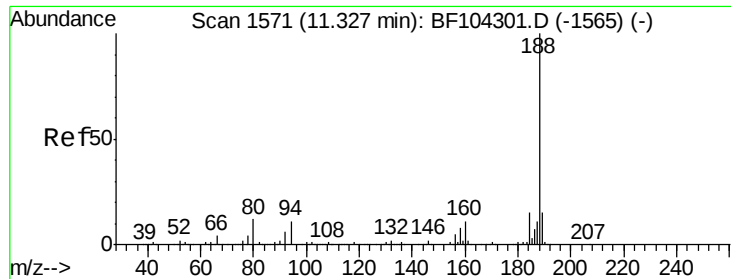
Sohil
4/26/2018 6:09:47 PM



#57
Fluorene
Concen: 6.685 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	16.5	10.6	16.0





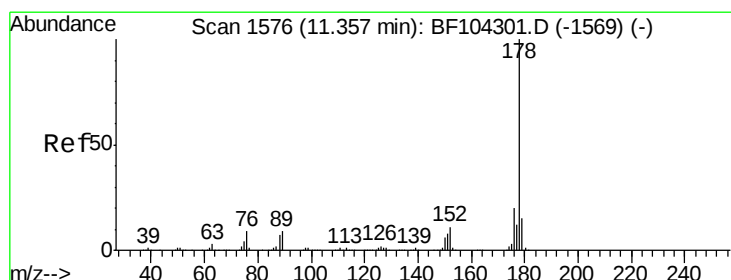
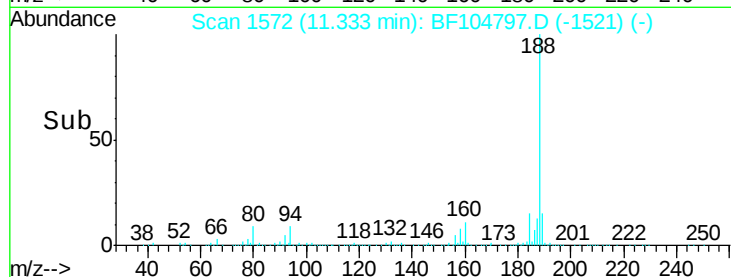
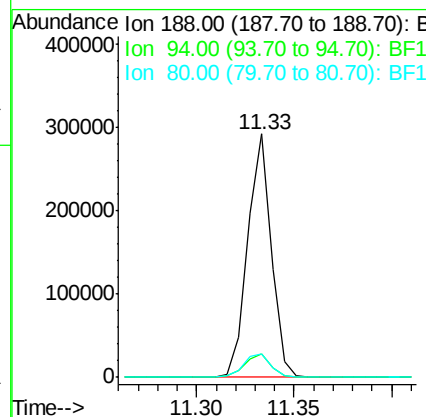
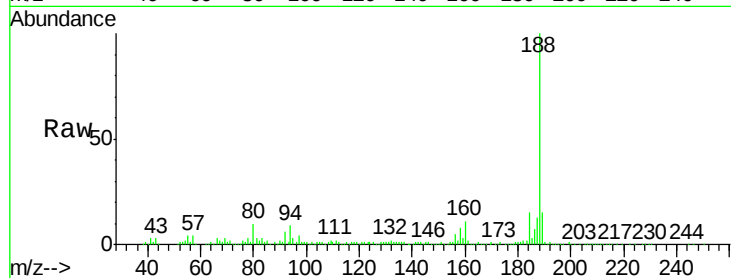
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion:	188	Resp:	245582
Ion Ratio		Lower	Upper
188	100		
94	9.4	8.5	12.7
80	9.6	9.2	13.8

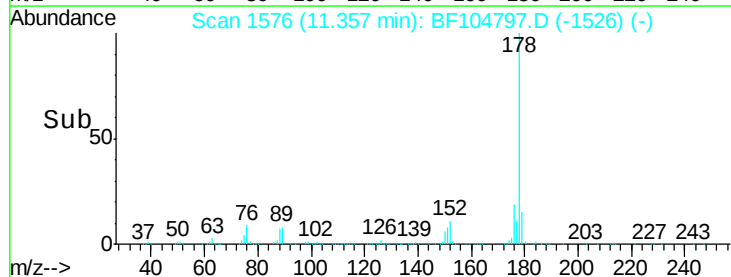
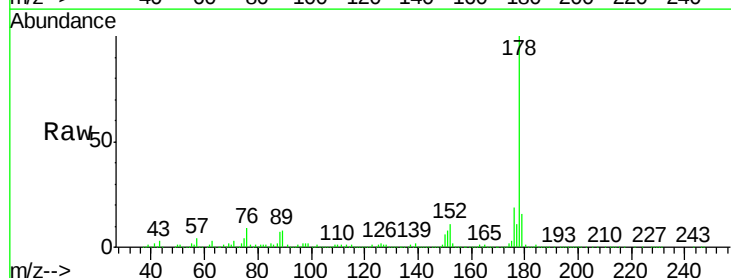
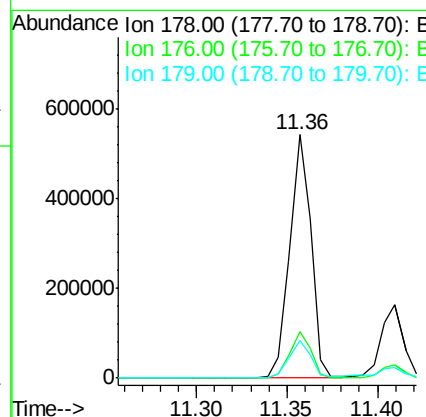
Manual Integrations
APPROVED

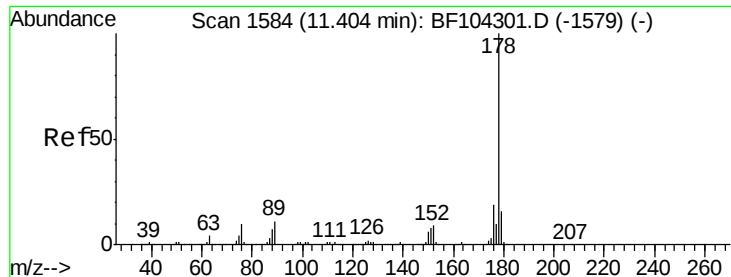
Sohil
4/26/2018 6:09:47 PM



#70
Phenanthrene
Concen: 32.375 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion:	178	Resp:	442769
Ion Ratio		Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.7	13.0	19.6





#71

Anthracene

Concen: 9.613 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Instrument :

BNA_F

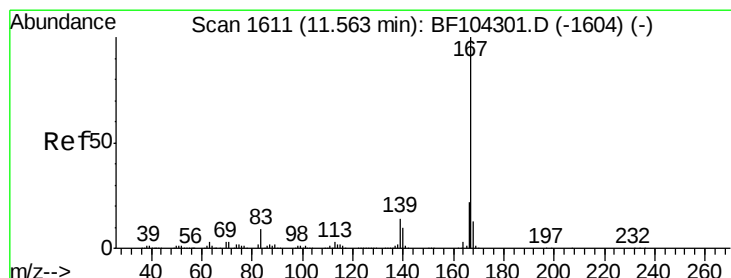
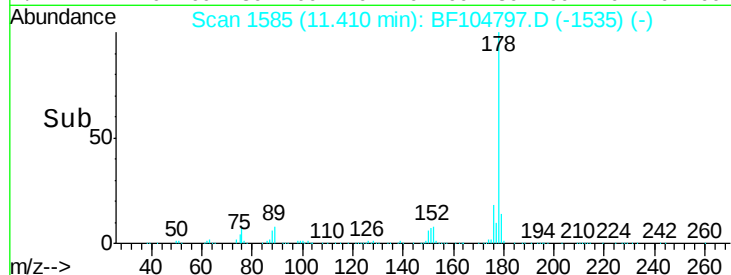
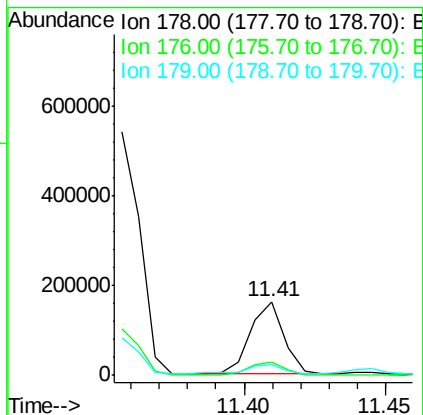
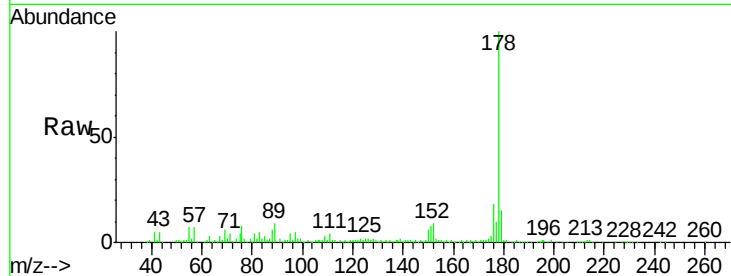
ClientSampleId :

HD-02-042418

Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		133638		
176	17.9	15.4	23.2		
179	15.0	12.6	19.0		

Manual Integrations
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4/26/2018 6:09:47 PM



#72

Carbazole

Concen: 2.578 ng

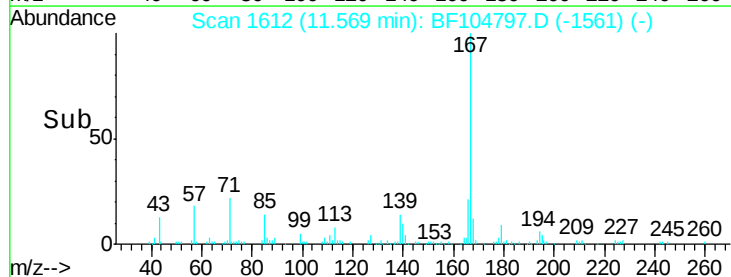
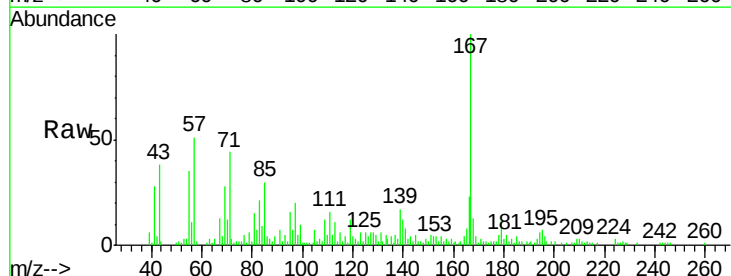
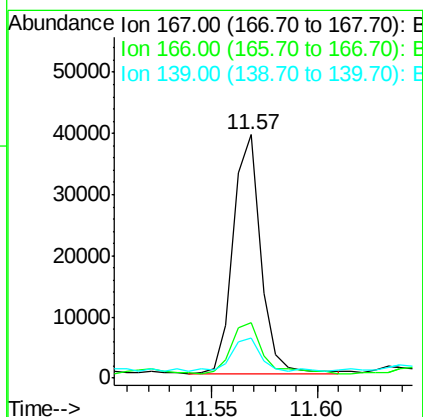
RT: 11.57 min Scan# 1612

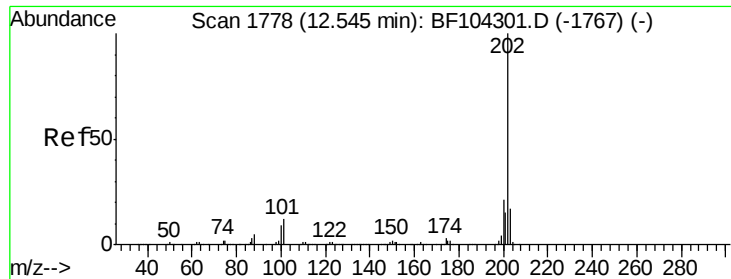
Delta R.T. -0.00 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
167	100		35018		
166	23.0	17.6	26.4		
139	16.7	10.9	16.3#		





#74

Fluoranthene

Concen: 39.666 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.01 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Instrument :

BNA_F

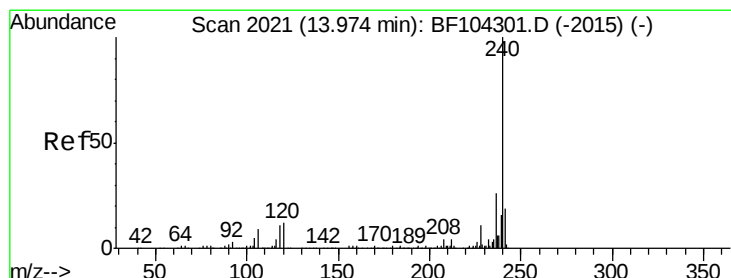
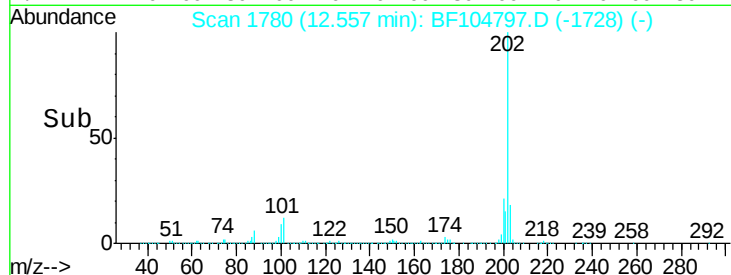
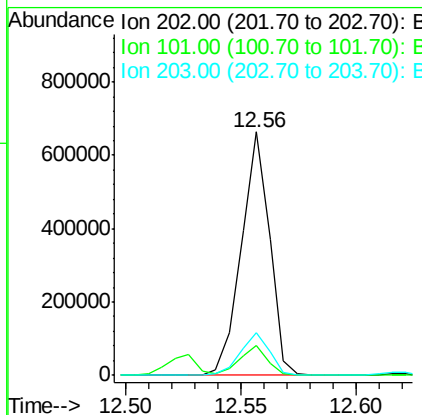
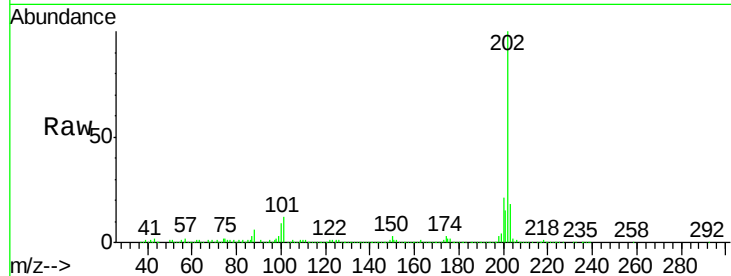
ClientSampleId :

HD-02-042418

Tot Ion:	202	Resp:	566789
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	34.1
203	17.8	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

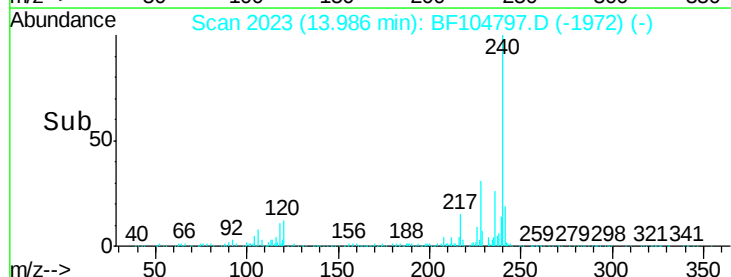
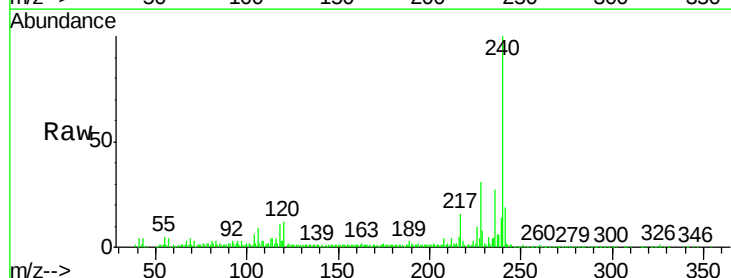
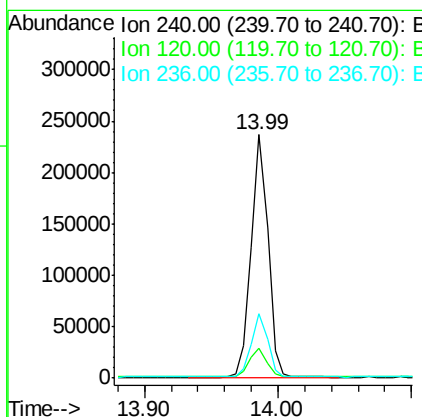
RT: 13.99 min Scan# 2023

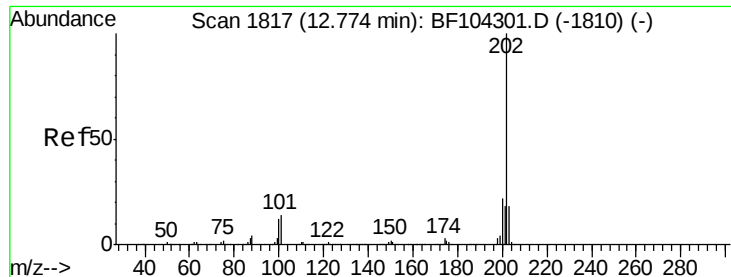
Delta R.T. -0.00 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Tgt Ion:	240	Resp:	203442
Ion Ratio	Lower	Upper	
240	100		
120	12.2	9.5	14.3
236	26.6	20.7	31.1





#77

Pvrene

Concen: 35.191 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

Instrument :

BNA_F

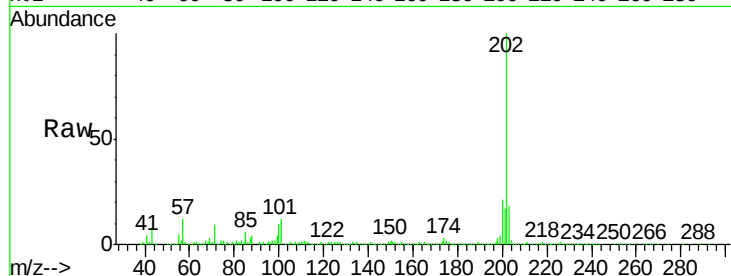
ClientSampleId :

HD-02-042418

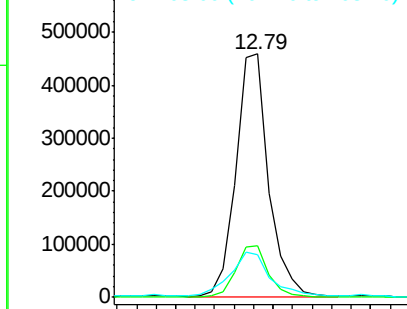
Tot Ion:	202	Resp:	530670
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.4	26.2
203	17.5	14.3	21.5

Manual Integrations
APPROVED

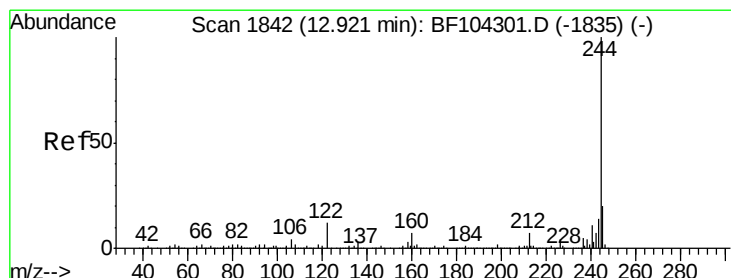
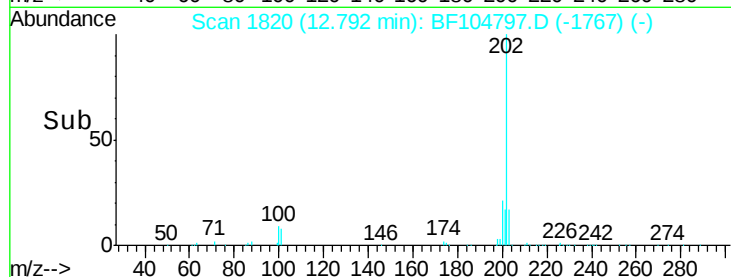
Sohil
4/26/2018 6:09:47 PM



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: 65.417 ng

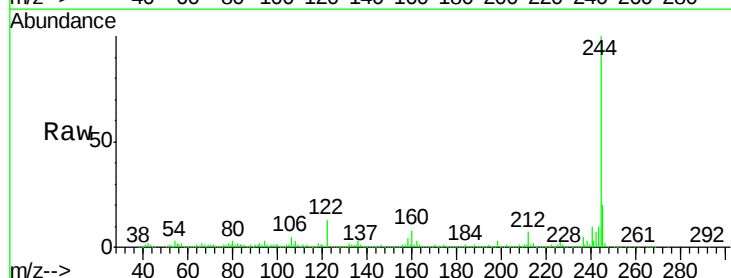
RT: 12.93 min Scan# 1843

Delta R.T. 0.01 min

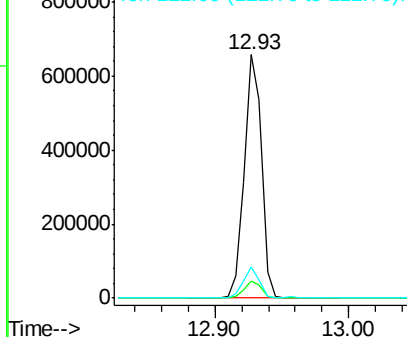
Lab File: BF104797.D

Acq: 25 Apr 2018 19:00

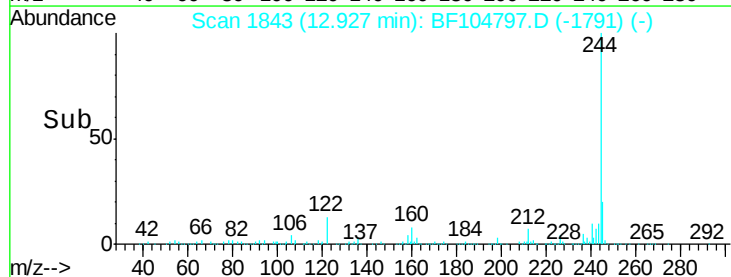
Tgt Ion:	244	Resp:	583749
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.4	8.0
122	12.8	11.0	16.4

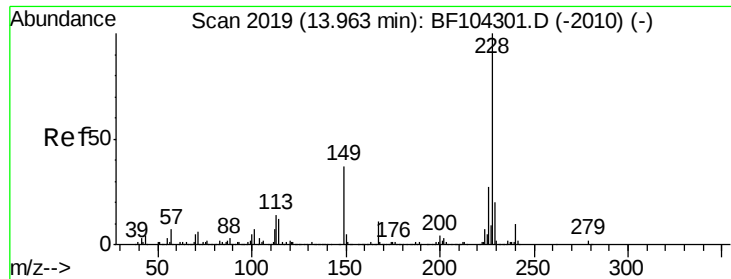


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





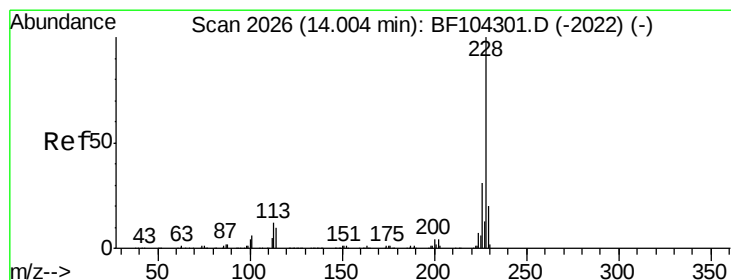
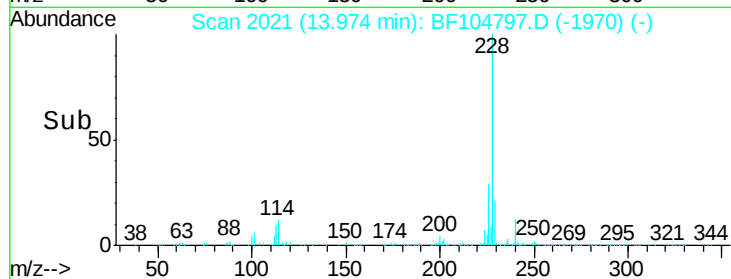
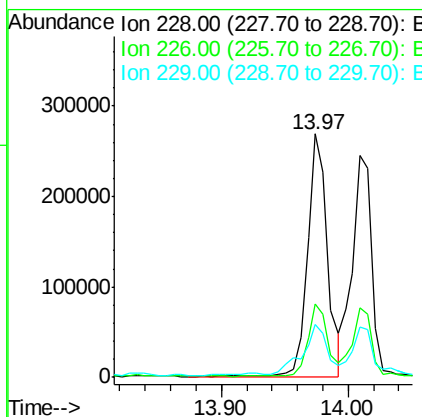
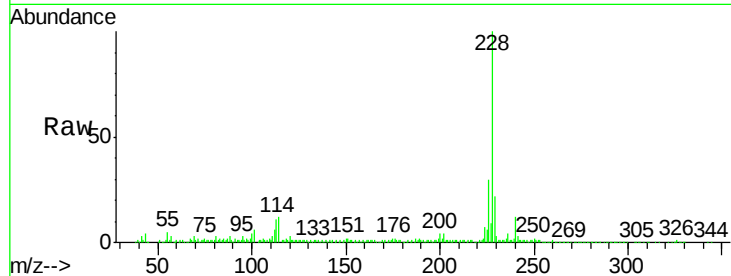
#80
Benzo(a)anthracene
Concen: 24.169 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.00 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	21.8	15.8	23.6

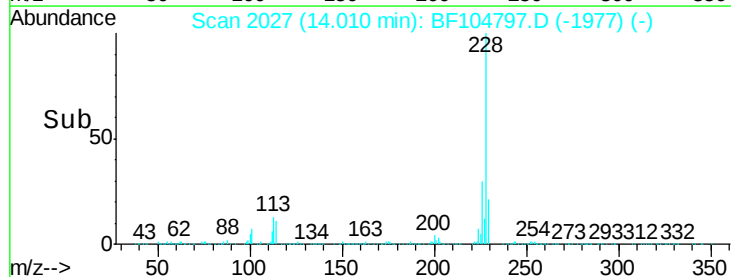
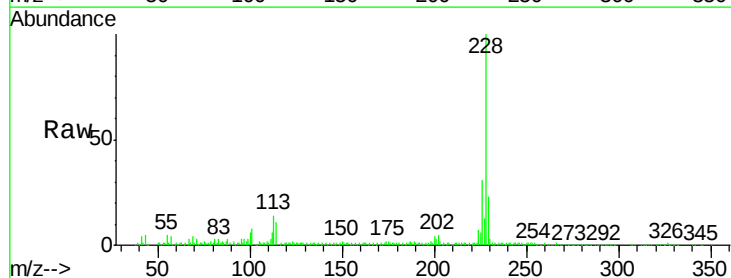
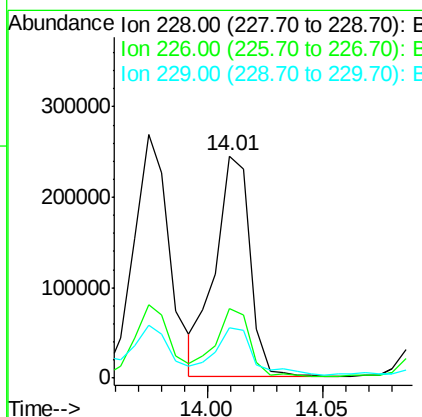
Manual Integrations
APPROVED

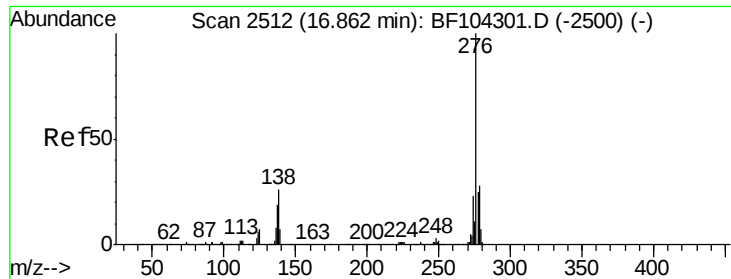
Sohil
4/26/2018 6:09:47 PM



#82
Chrysene
Concen: 20.666 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	22.9	16.2	24.4





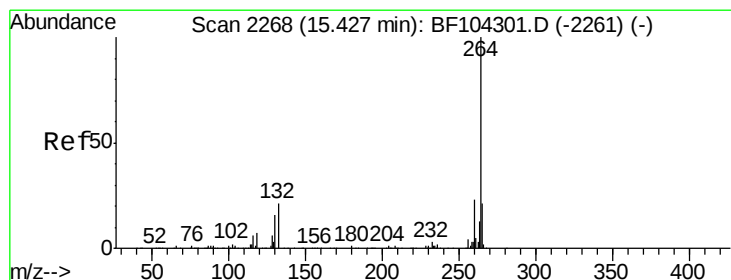
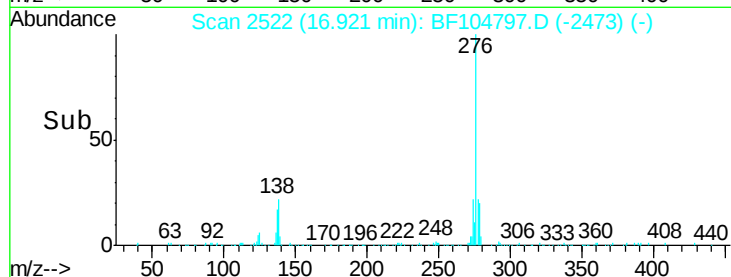
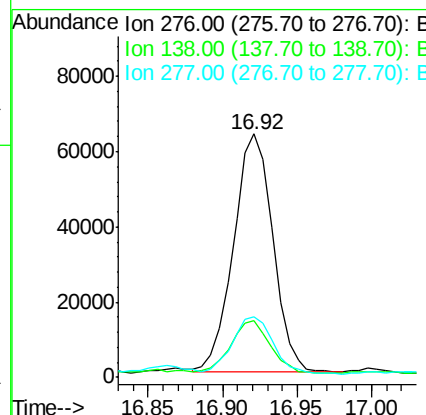
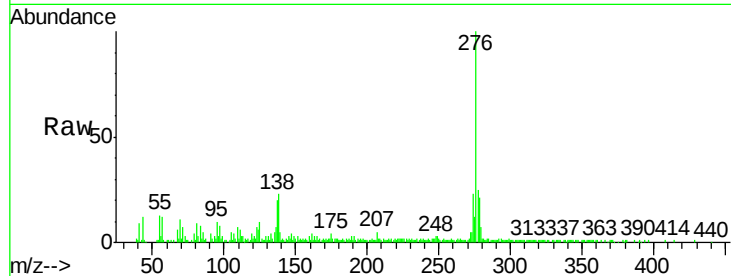
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.988 ng
RT: 16.92 min Scan# 2522
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.7	25.0	37.6#
277	25.0	20.1	30.1

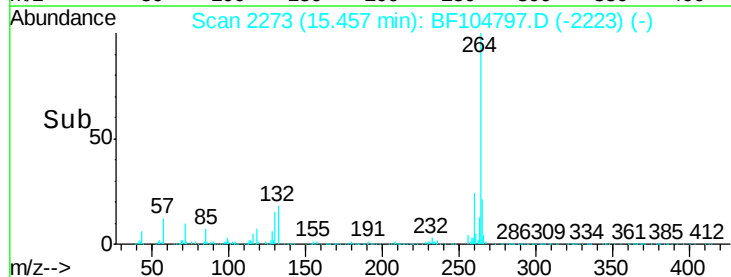
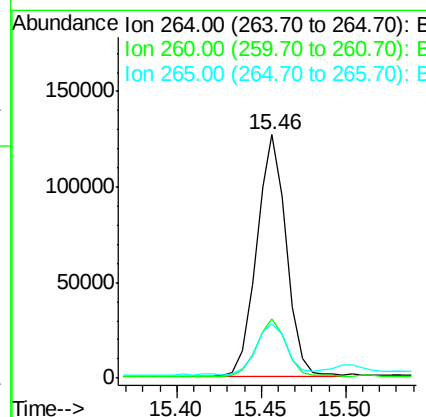
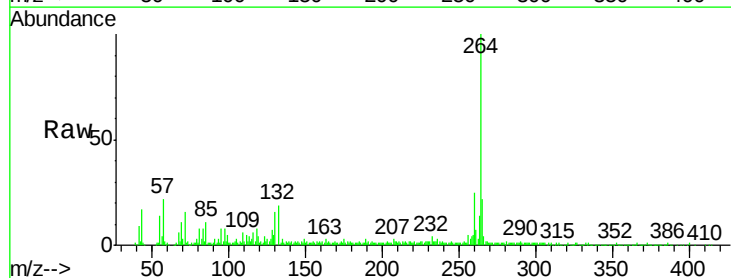
Manual Integrations
APPROVED

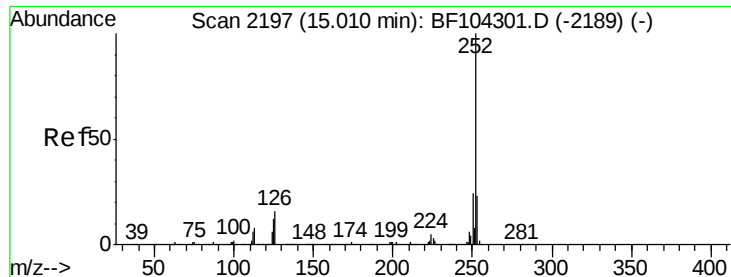
Sohil
4/26/2018 6:09:47 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.2	17.5	26.3





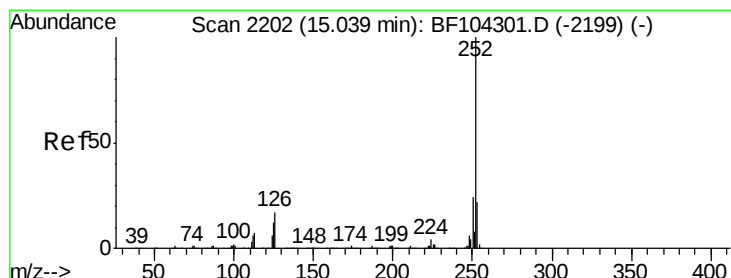
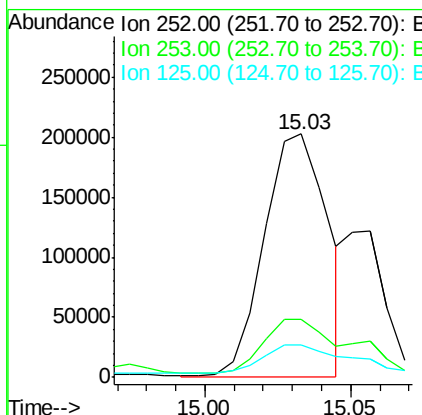
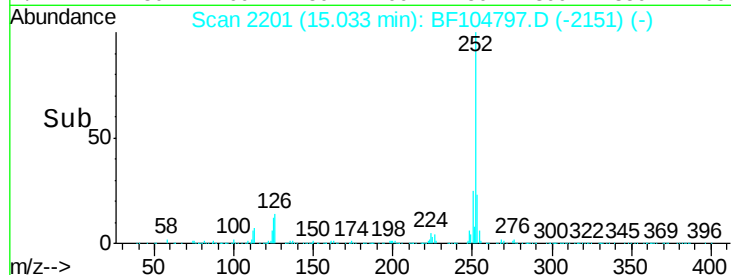
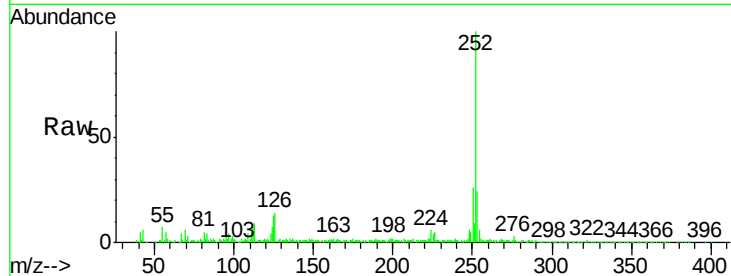
#87
Benzo(b)fluoranthene
Concen: 31.495 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.6
125	13.5	9.0	13.6

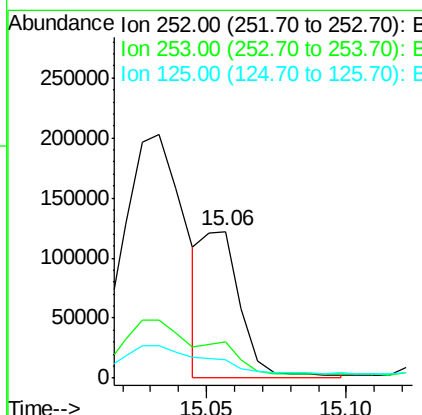
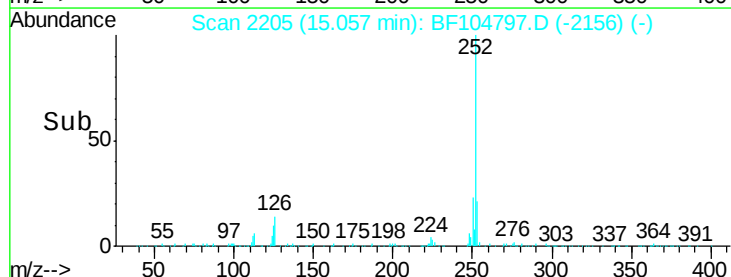
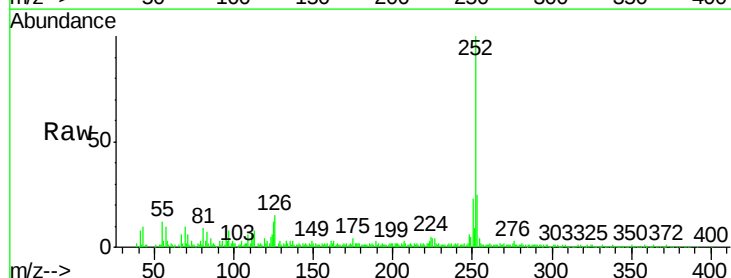
Manual Integrations
APPROVED

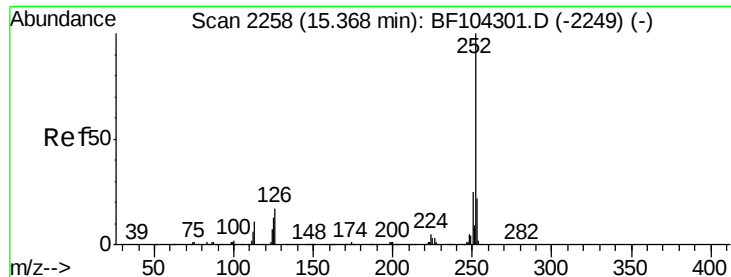
Sohil
4/26/2018 6:09:47 PM



#88
Benzo(k)fluoranthene
Concen: 12.778 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	12.2	10.2	15.2





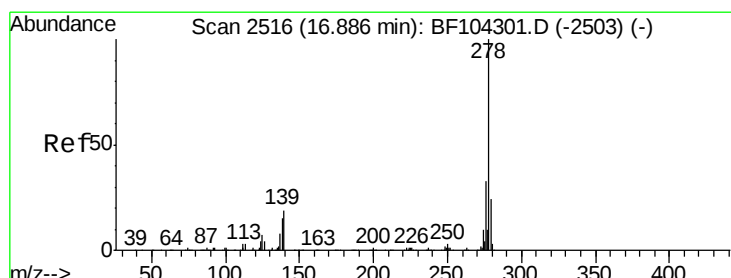
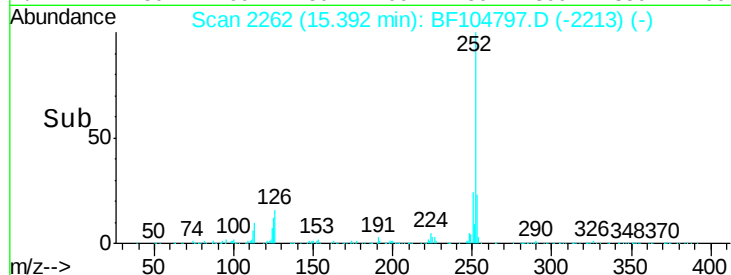
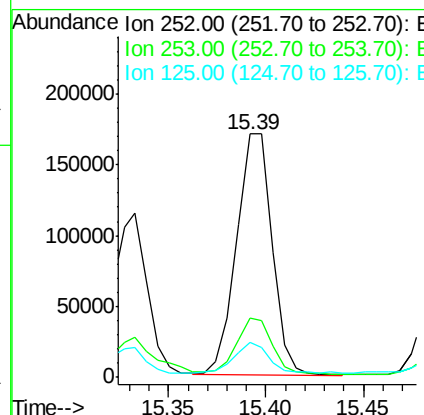
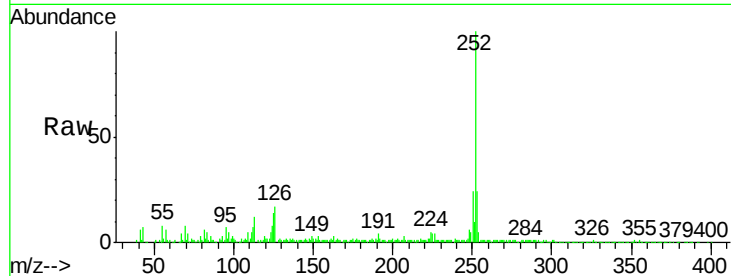
#89
Benzo(a)pyrene
Concen: 24.938 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Instrument :
BNA_F
ClientSampleId :
HD-02-042418

Tot Ion	Ratio	Resp	Lower	Upper
252	100	216515		
253	24.3	17.1	25.7	
125	14.3	9.8	14.6	

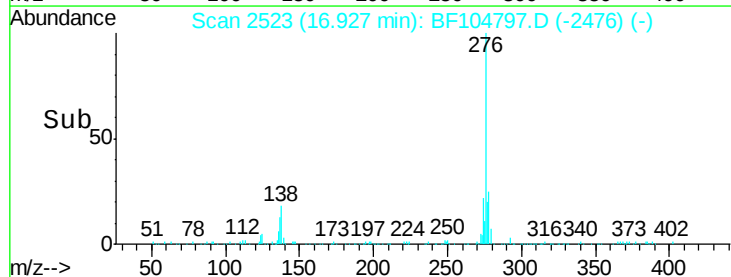
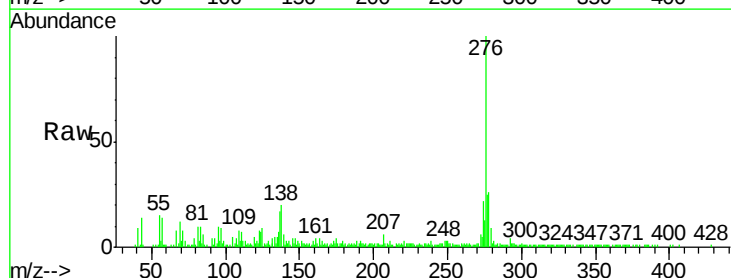
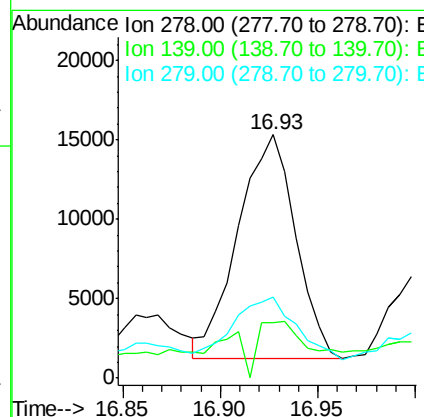
Manual Integrations
APPROVED

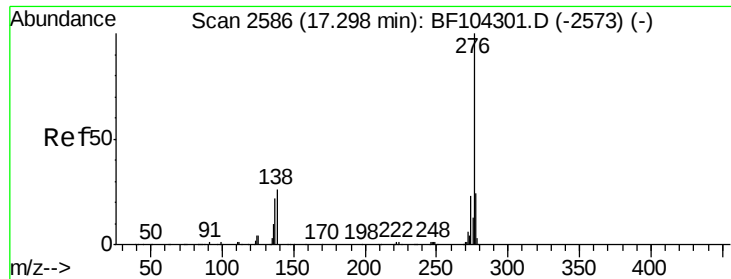
Sohil
4/26/2018 6:09:47 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.037 ng
RT: 16.93 min Scan# 2523
Delta R.T. -0.02 min
Lab File: BF104797.D
Acq: 25 Apr 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	28790		
139	22.6	15.9	23.9	
279	33.3	19.0	28.4	





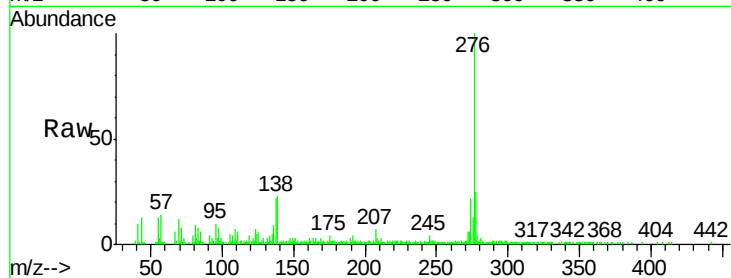
#91
 Benzo(a,h,i)perylene
 Concen: 16.458 ng
 RT: 17.37 min Scan# 2598
 Delta R.T. -0.01 min
 Lab File: BF104797.D
 Acq: 25 Apr 2018 19:00

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-042418

Tot Ion:	276	Resp:	113701
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	22.7	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 4/26/2018 6:09:47 PM



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

