

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
 Data File : BF118345.D
 Acq On : 27 Dec 2019 18:40
 Operator : JU
 Sample : K6431-08
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-(0-2)

Manual Integrations
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Quant Time: Dec 28 01:53:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	148100	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	582788	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	306916	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	553950	20.00	ng	0.00
76) Chrysene-d12	14.05	240	341090	20.00	ng	0.00
87) Perylene-d12	15.54	264	397455	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	869409	100.21	ng	0.00
7) Phenol-d6	6.49	99	1099250	102.13	ng	0.00
23) Nitrobenzene-d5	7.42	82	658652	64.64	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	360252	95.05	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	1299355	64.62	ng	0.00
79) Terphenyl-d14	12.99	244	1322544	64.33	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.16	128	168954	5.704	ng	99
37) 2-Methylnaphthalene	8.86	142	41470	2.045	ng	97
50) Dimethylphthalate	9.61	163	130498	5.664	ng	99
52) Acenaphthene	9.93	154	95575	5.415	ng	99
55) Dibenzofuran	10.10	168	108690	4.168	ng	98
58) Fluorene	10.45	166	128400	6.099	ng	98
71) Phenanthrene	11.42	178	1677969	55.565	ng	99
72) Anthracene	11.47	178	408104	13.501	ng	98
73) Carbazole	11.63	167	153921	5.739	ng	98
75) Fluoranthene	12.62	202	1903157	62.446	ng	97
78) Pyrene	12.85	202	1616451	58.034	ng	98
81) Benzo(a)anthracene	14.04	228	859518	36.000	ng	99
83) Chrysene	14.07	228	682239	29.843	ng	97
86) Indeno(1,2,3-cd)pyrene	17.05	276	493924	25.357	ng	94
88) Benzo(b)fluoranthene	15.10	252	1002489m	37.998	ng	
89) Benzo(k)fluoranthene	15.13	252	330288m	13.038	ng	
90) Benzo(a)pyrene	15.48	252	736299	31.681	ng	96
91) Dibenzo(a,h)anthracene	17.05	278	131019m	6.496	ng	
92) Benzo(a,h,i)perylene	17.50	276	441871	22.680	ng	97

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

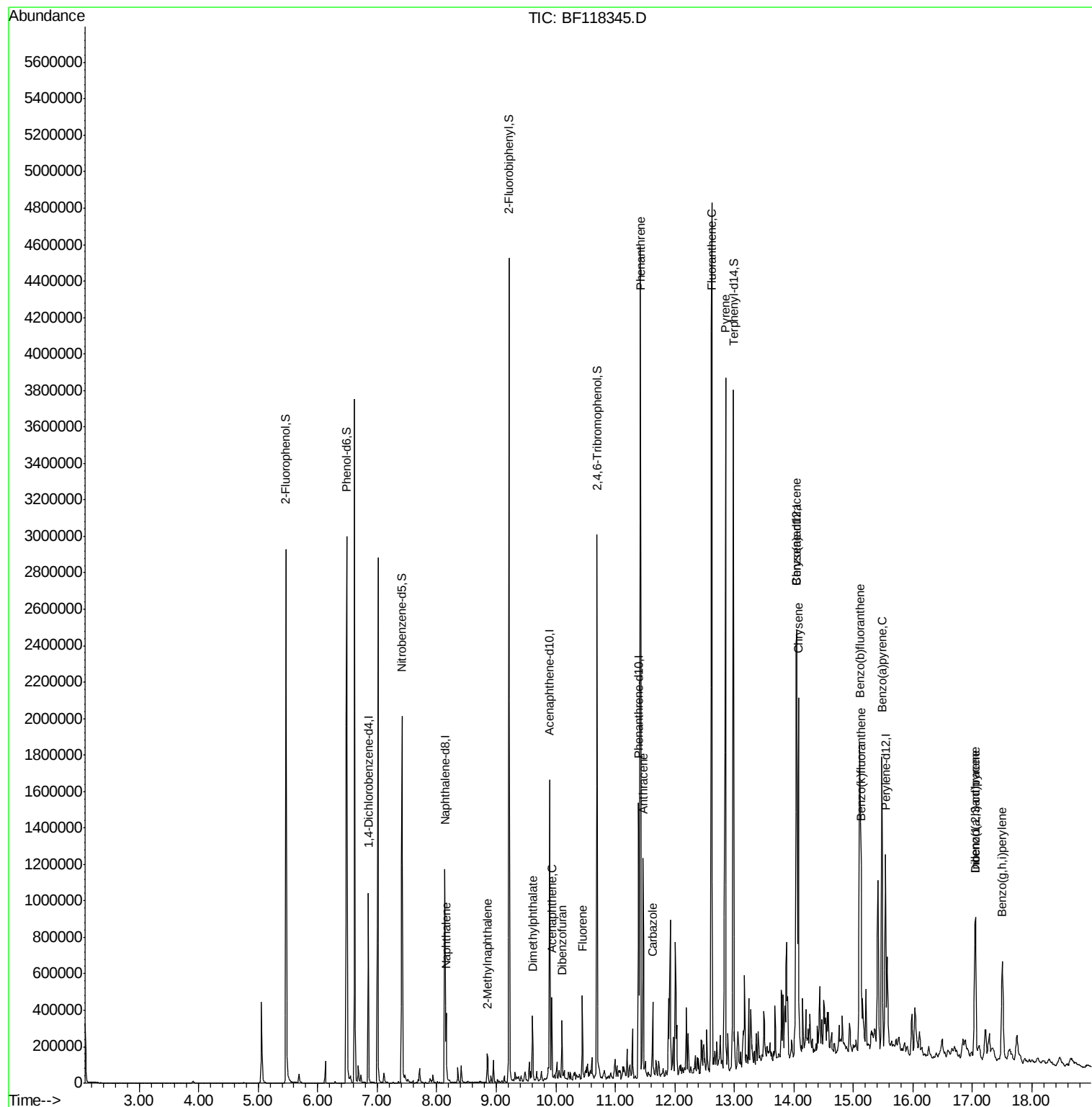
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
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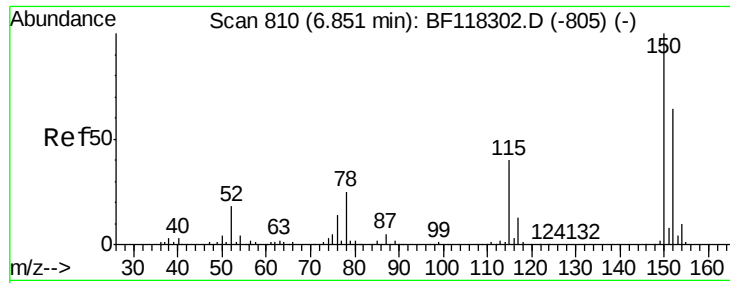
Instrument :
BNA_F
ClientSampled :
SB-2-(0-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 15:58:52 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Instrument :

BNA_F

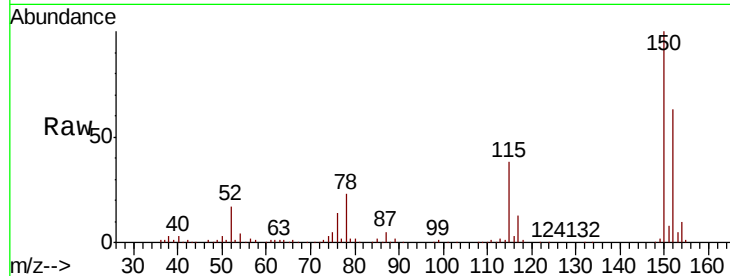
ClientSampleId :

SB-2-(0-2)

Tot Ion:	152	Resp:	148100
Ion Ratio	Lower	Upper	
152	100		
150	158.0	125.4	188.2
115	59.7	50.2	75.4

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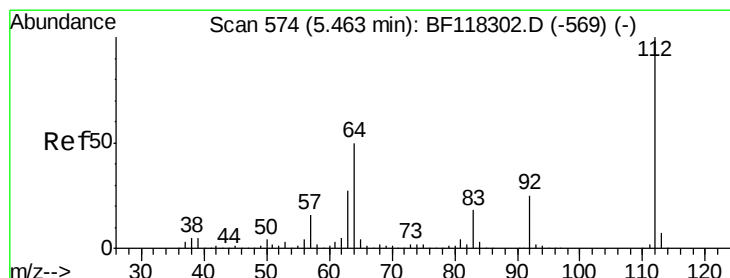
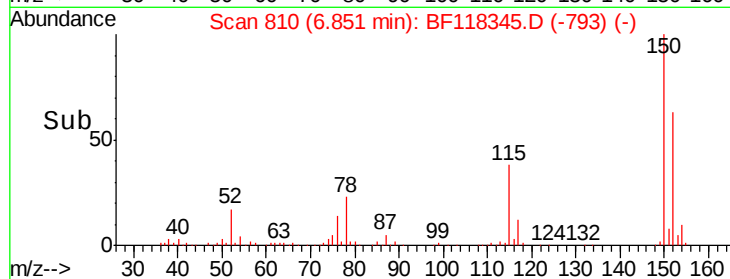
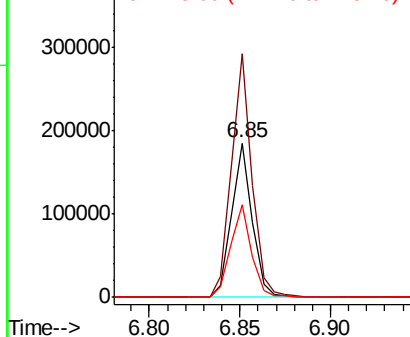


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 100.207 ng

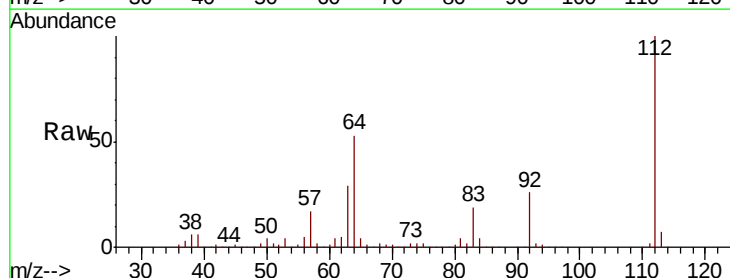
RT: 5.47 min Scan# 575

Delta R.T. 0.01 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Tgt Ion:	112	Resp:	869409
Ion Ratio	Lower	Upper	
112	100		
64	52.8	39.7	59.5
63	29.2	21.7	32.5

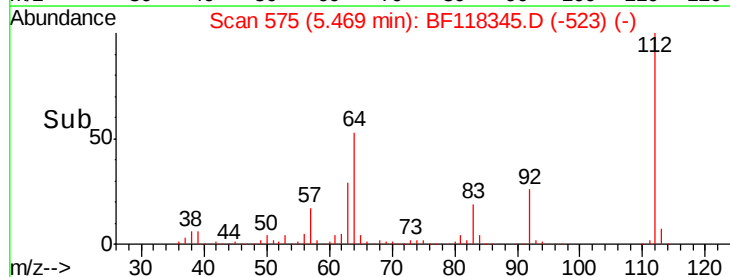
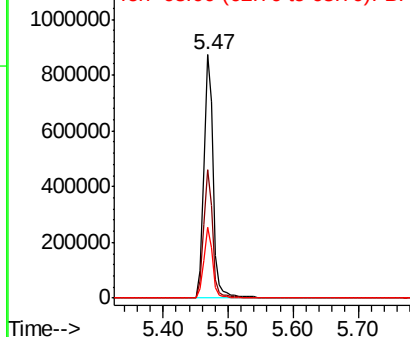


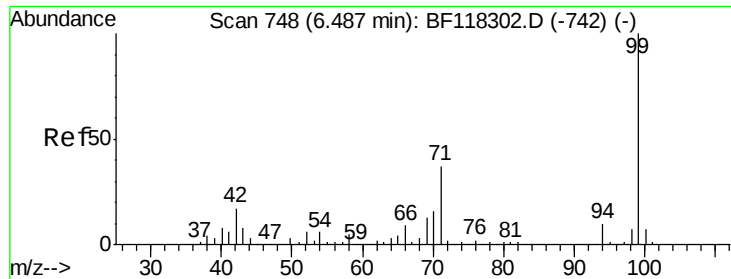
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 102.133 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Instrument :

BNA_F

ClientSampled :

SB-2-(0-2)

Tot Ion: 99 Resp: 1099250

Ion Ratio Lower Upper

99 100

42 17.2 13.5 20.3

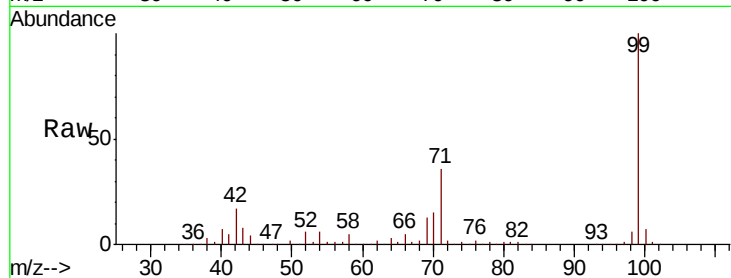
71 36.4 29.4 44.2

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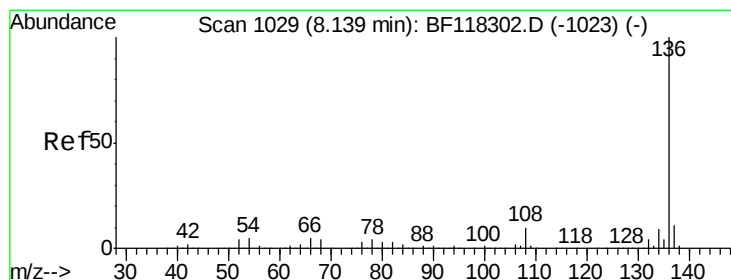
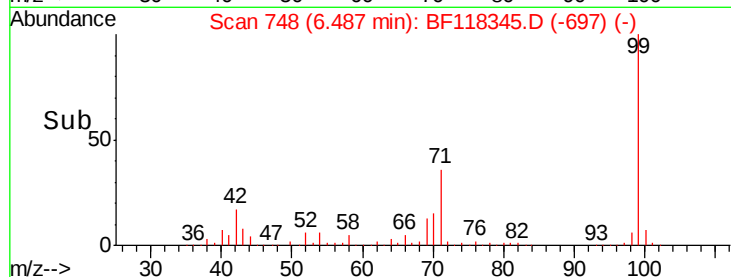
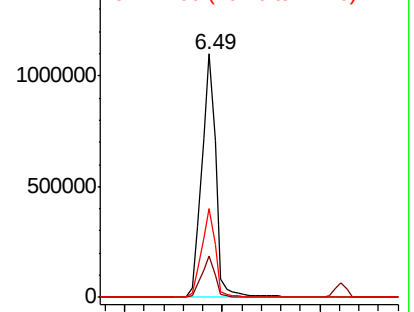
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Tgt Ion: 136 Resp: 582788

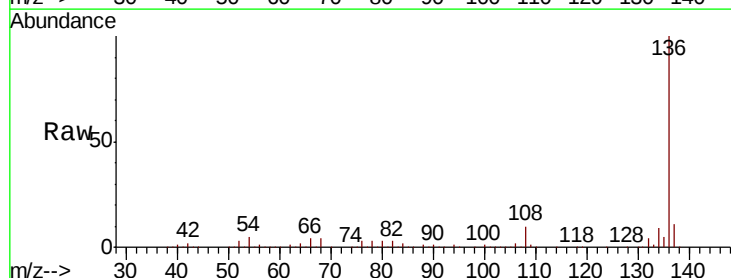
Ion Ratio Lower Upper

136 100

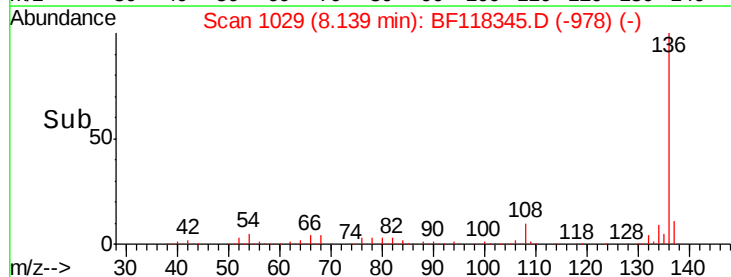
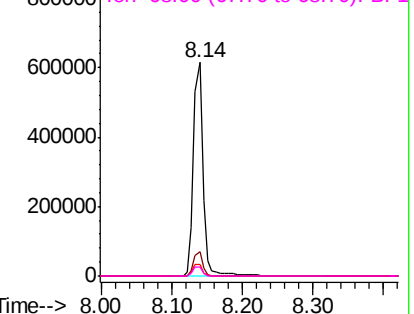
137 11.1 8.9 13.3

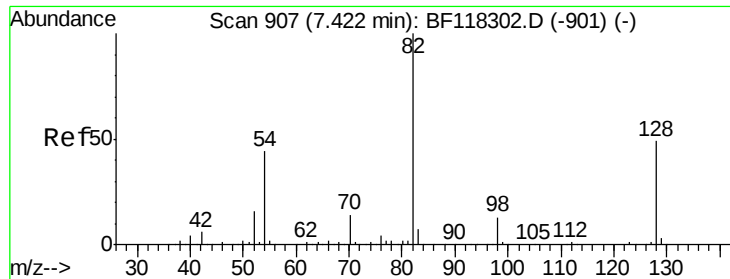
54 5.5 4.2 6.4

68 4.2 3.5 5.3



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





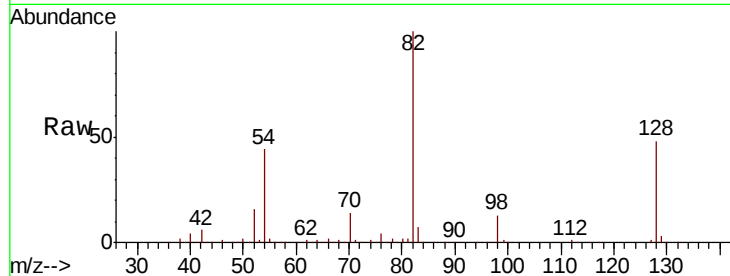
#23
Nitrobenzene-d5
Concen: 64.640 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

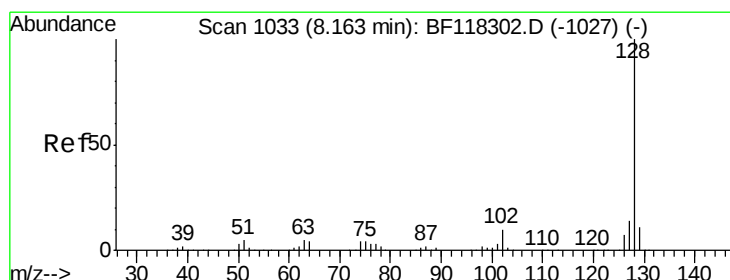
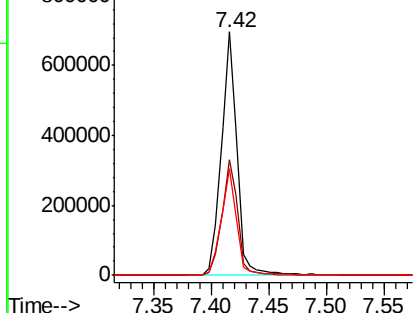
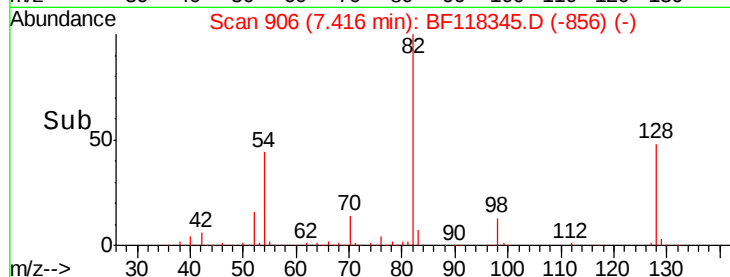
Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	39.6	59.4
54	44.0	34.9	52.3

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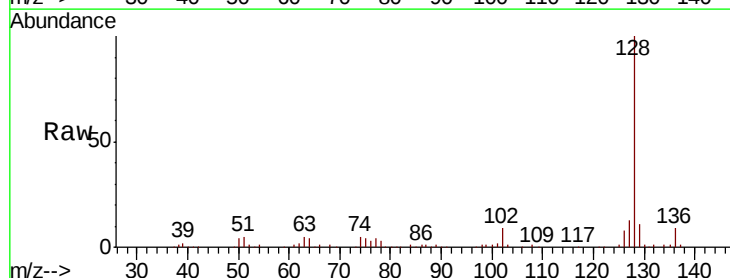


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

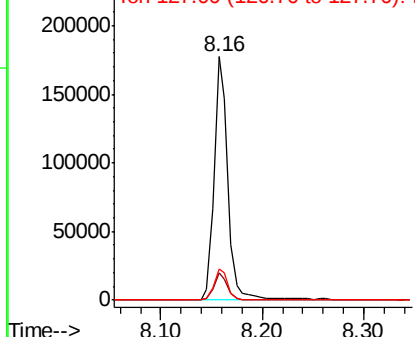
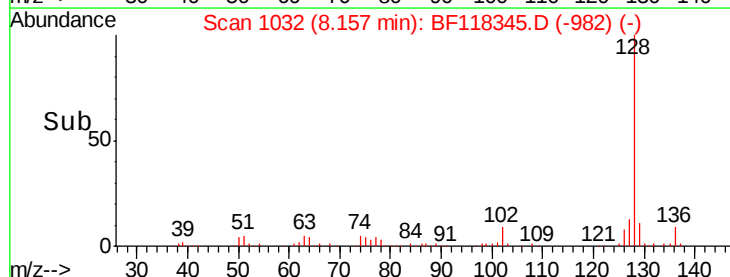


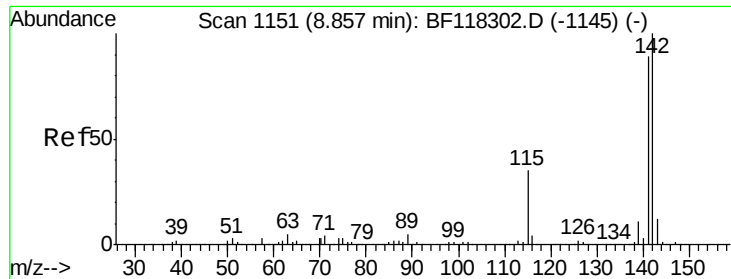
#31
Naphthalene
Concen: 5.704 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.0	11.0	16.4



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





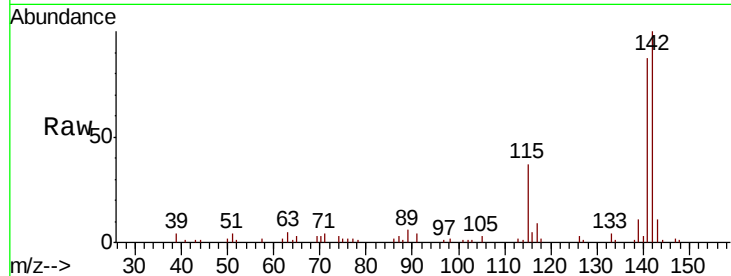
#37
2-Methylnaphthalene
Concen: 2.045 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.7	71.2	106.8
115	36.6	28.0	42.0

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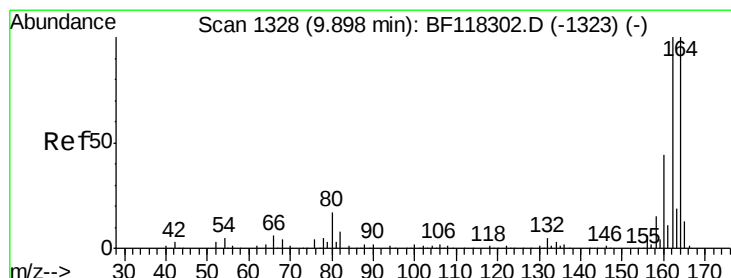
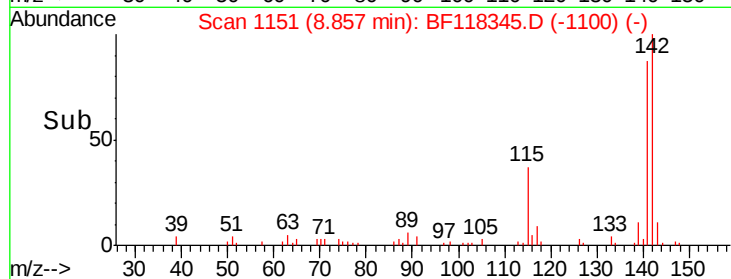
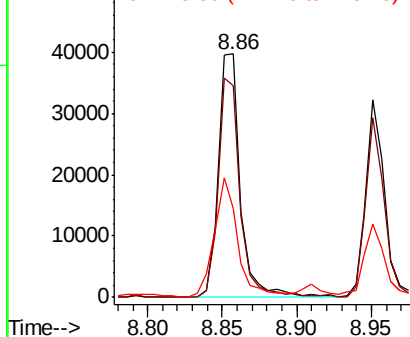


Abundance

Ion 142.00 (141.70 to 142.70): E

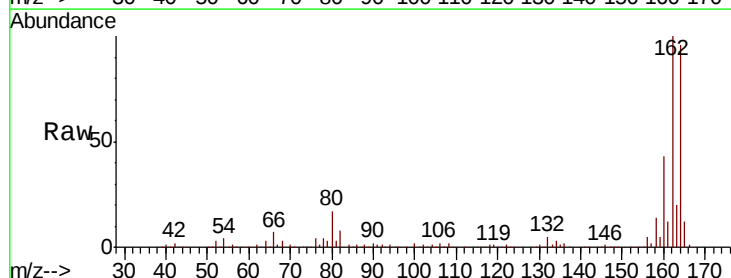
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	80.0	120.0
160	45.1	34.8	52.2

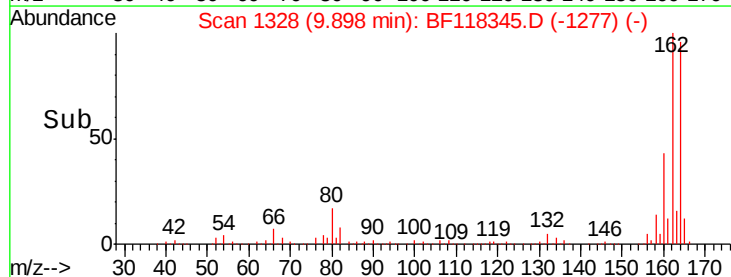
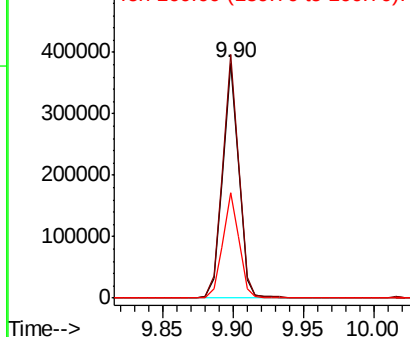


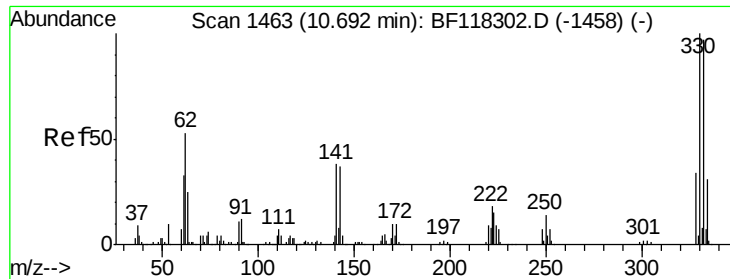
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





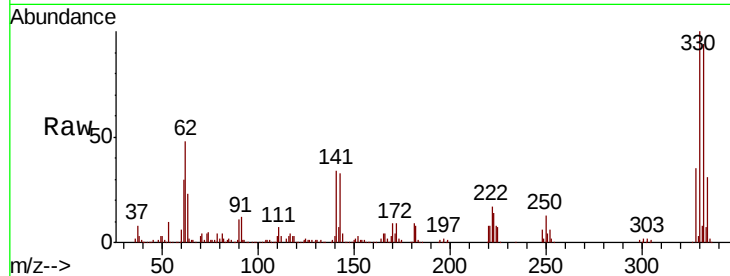
#42
 2,4,6-Tribromophenol
 Concen: 95.049 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.00 min
 Lab File: BF118345.D
 Acq: 27 Dec 2019 18:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	114.8
141	32.7	26.0	39.0

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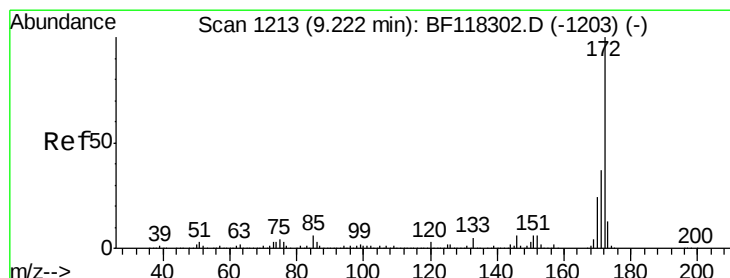
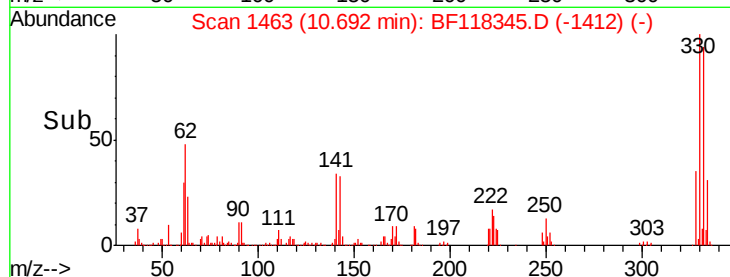
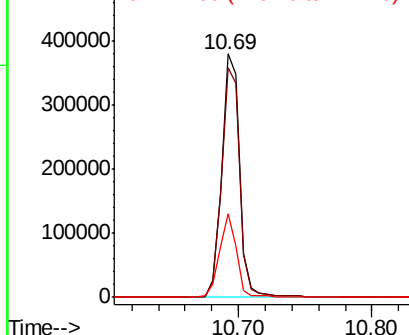


Abundance

Ion 329.80 (329.50 to 330.50): E

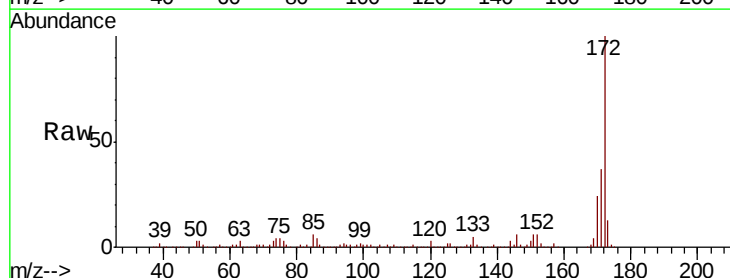
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 64.624 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF118345.D
 Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.3	43.9
170	24.0	19.2	28.8

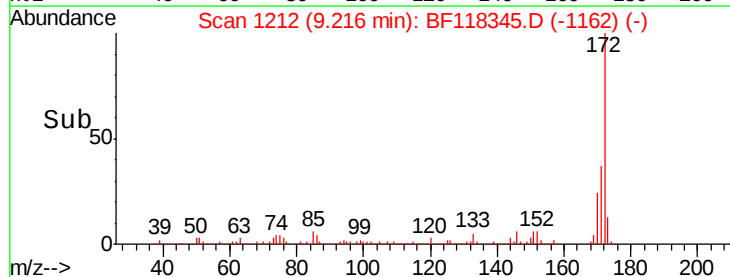
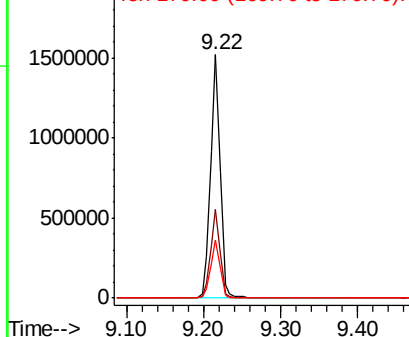


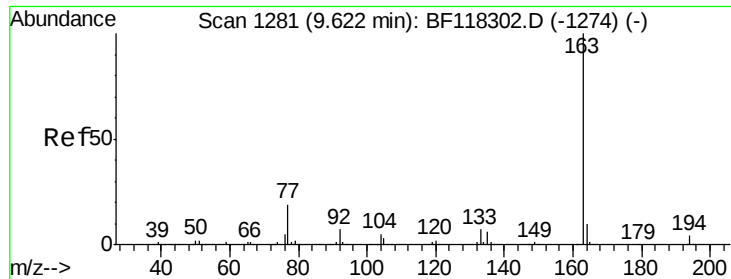
Abundance

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





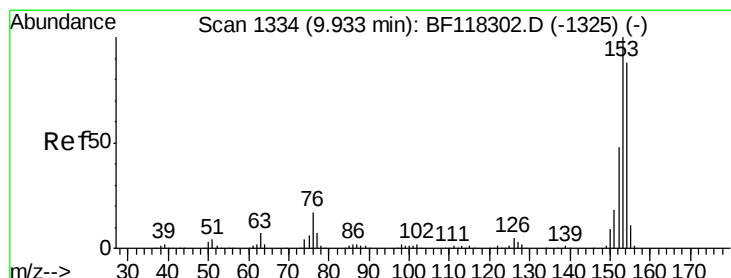
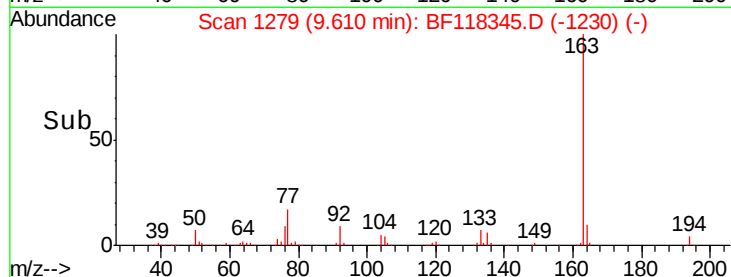
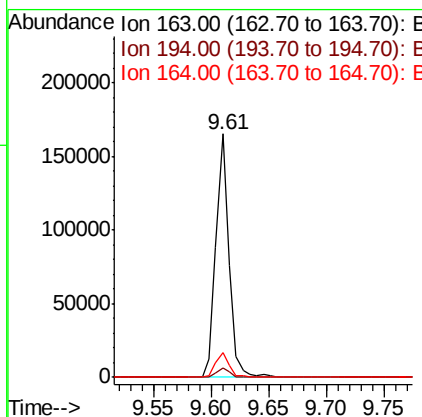
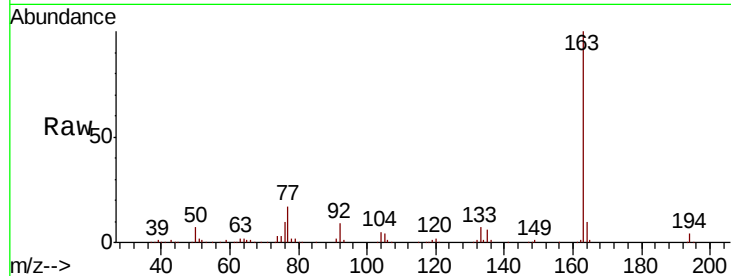
#50
Dimethylphthalate
Concen: 5.664 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	130498		
194	3.9		3.2	4.8
164	10.2		7.9	11.9

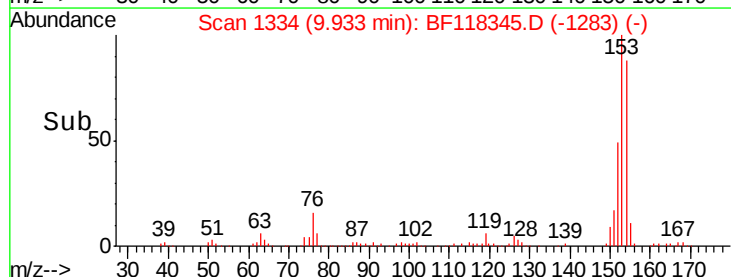
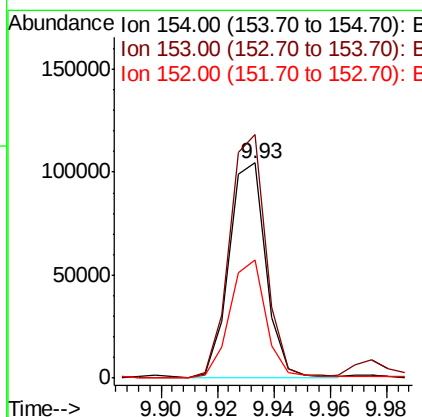
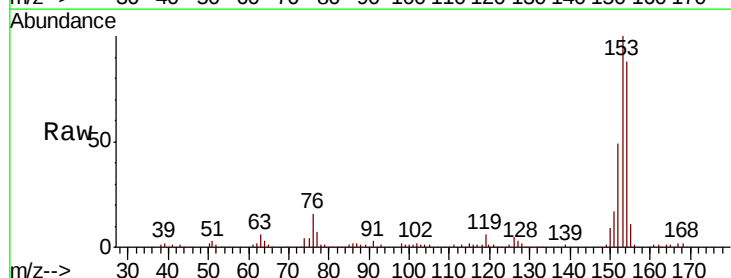
Manual Integrations
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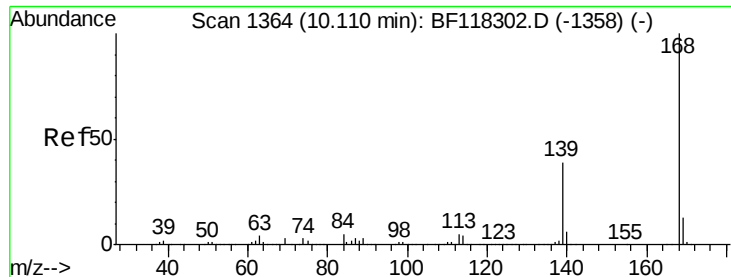
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#52
Acenaphthene
Concen: 5.415 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	95575		
153	113.0		90.6	136.0
152	55.0		43.1	64.7





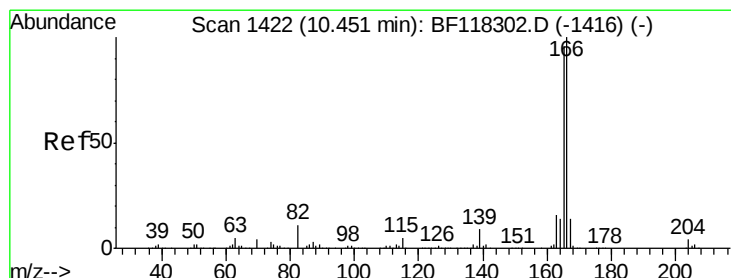
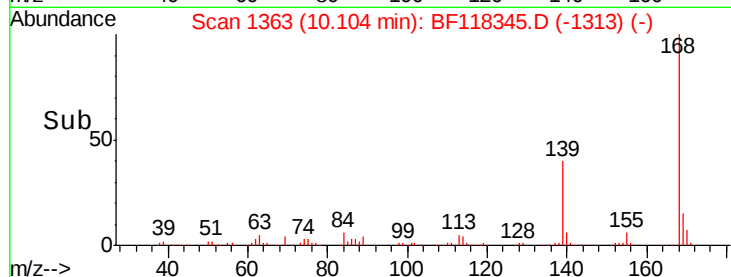
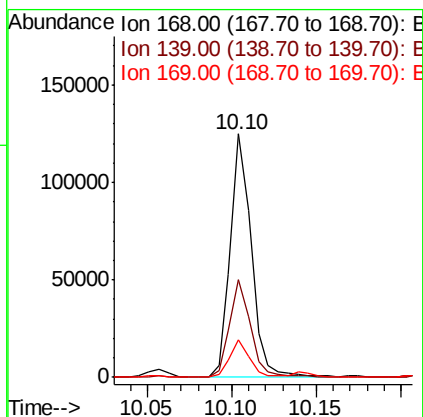
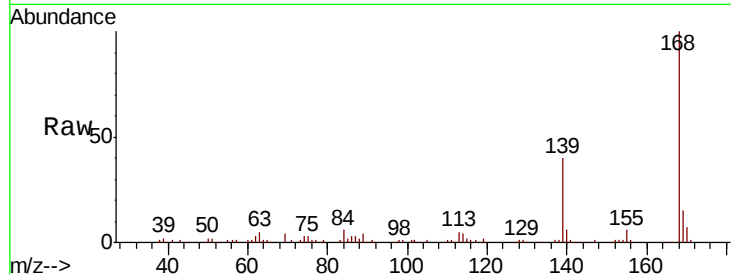
#55
Dibenzenofuran
Concen: 4.168 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.5	47.3
169	15.3	10.4	15.6

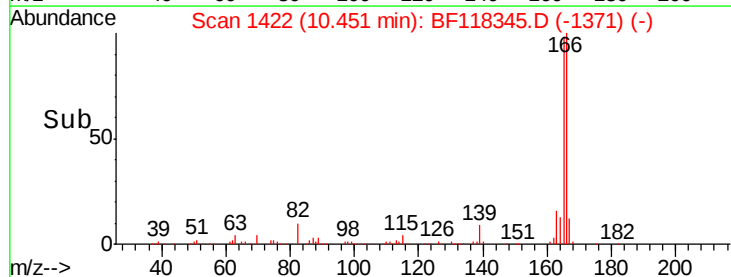
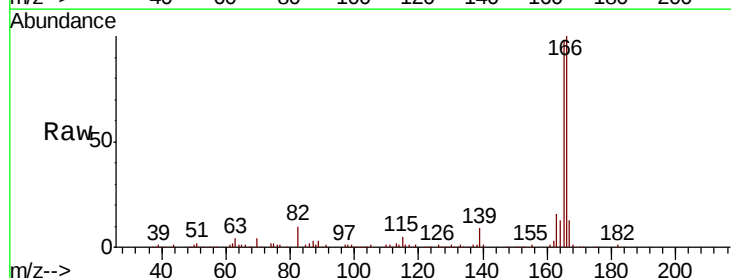
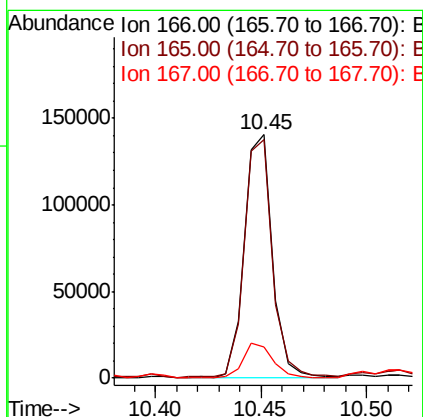
Manual Integrations
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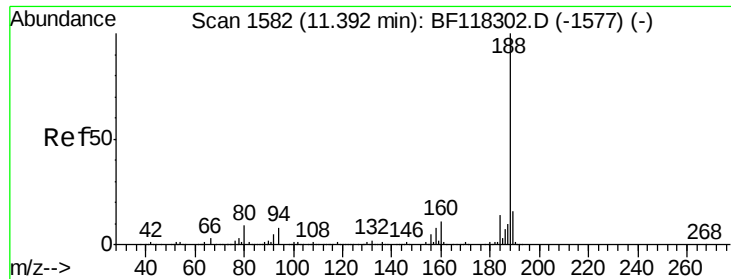
mohammad
12/29/2019 5:27:50 PM



#58
Fluorene
Concen: 6.099 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.0	115.4
167	12.7	10.9	16.3





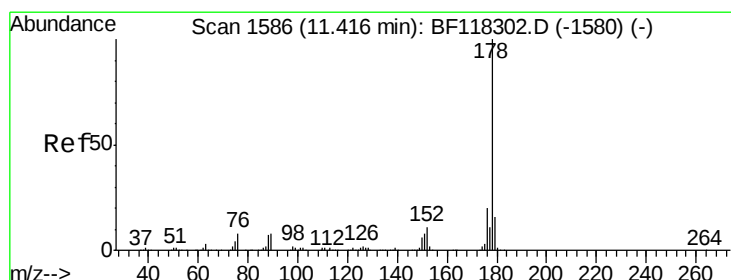
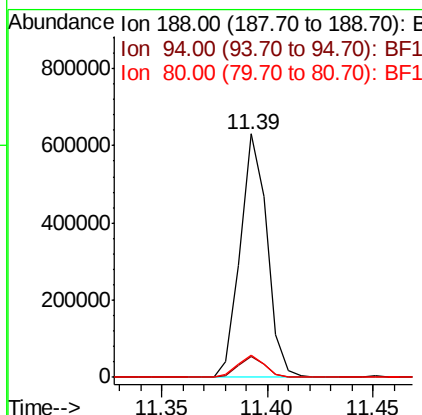
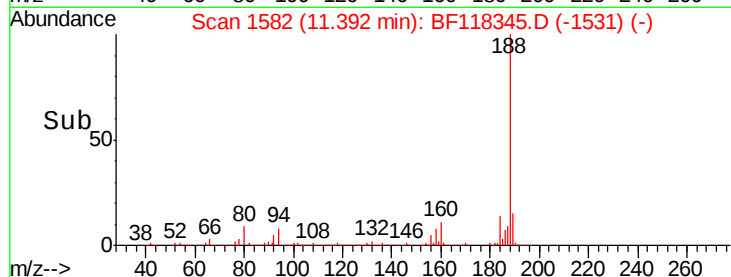
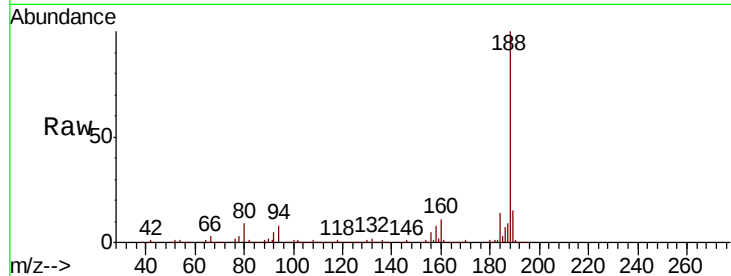
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	553950		
94	8.4		6.7	10.1
80	9.2		7.2	10.8

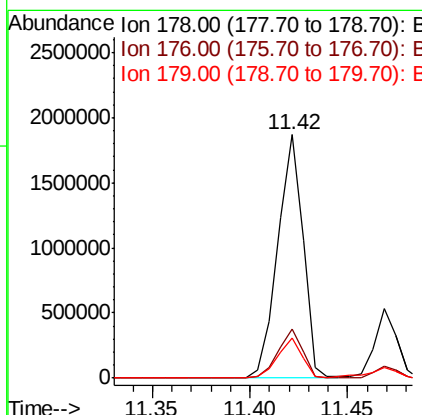
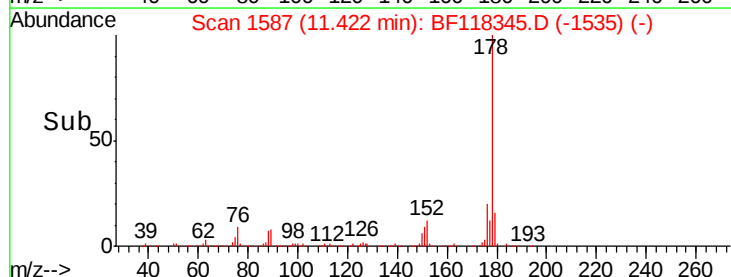
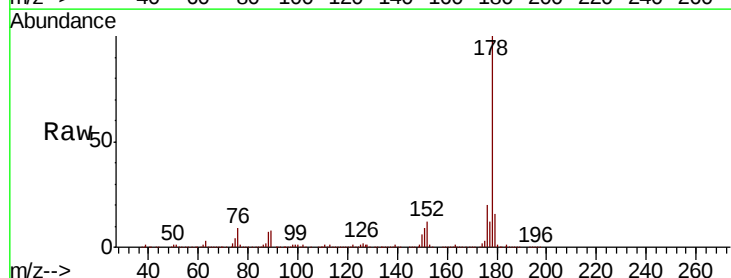
Manual Integrations
APPROVED

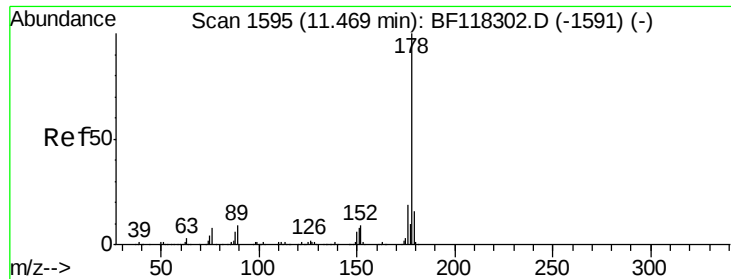
mohammad
12/29/2019 5:27:50 PM



#71
Phenanthrene
Concen: 55.565 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1677969		
176	19.9		15.6	23.4
179	16.3		12.6	19.0





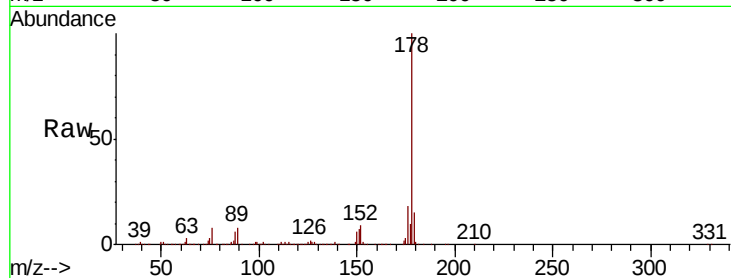
#72
 Anthracene
 Concen: 13.501 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: BF118345.D
 Acq: 27 Dec 2019 18:40

Instrument :
 BNA_F
 ClientSampleID :
 SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.2	22.8
179	15.2	12.9	19.3

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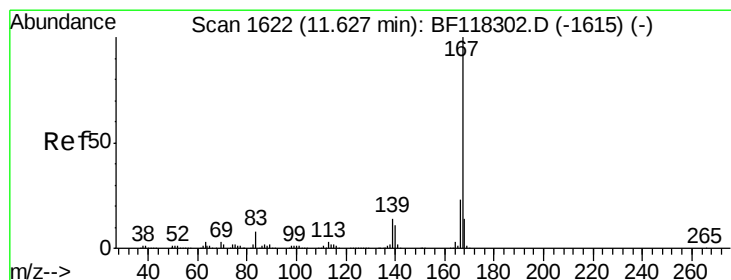
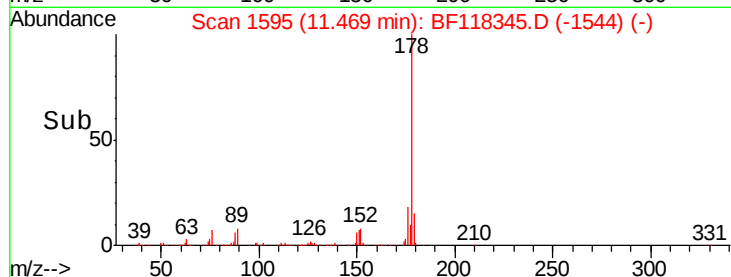
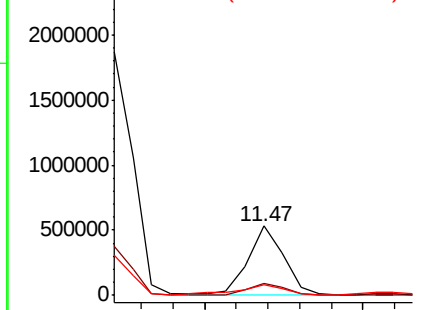


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73
 Carbazole
 Concen: 5.739 ng
 RT: 11.63 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: BF118345.D
 Acq: 27 Dec 2019 18:40

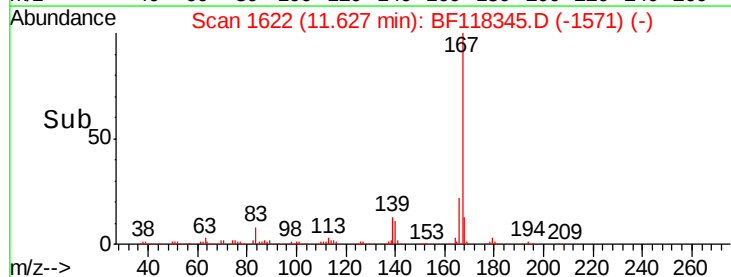
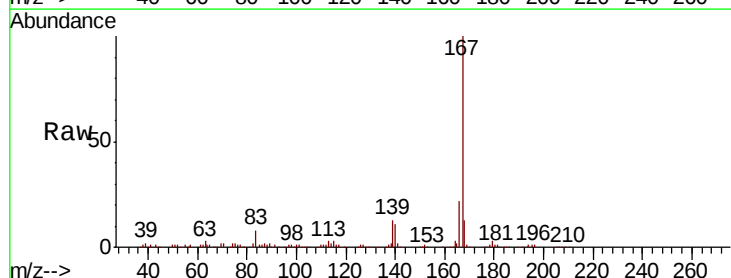
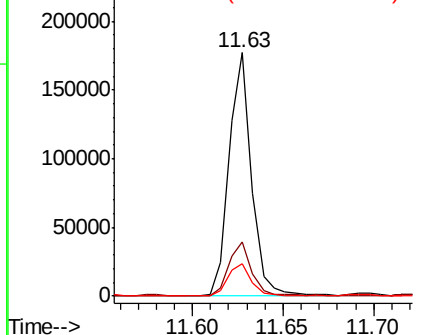
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.1	27.1
139	13.4	11.5	17.3

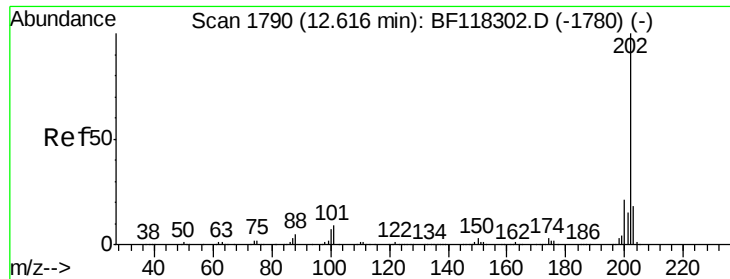
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 62.446 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.01 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Instrument :

BNA_F

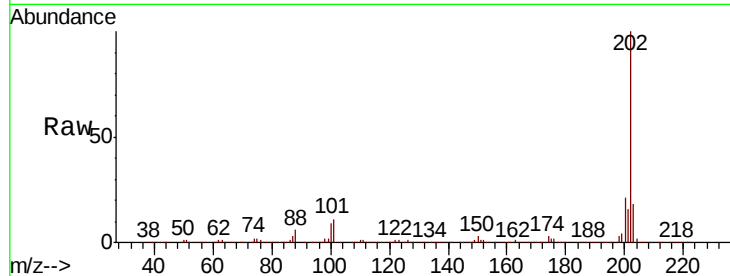
ClientSampleId :

SB-2-(0-2)

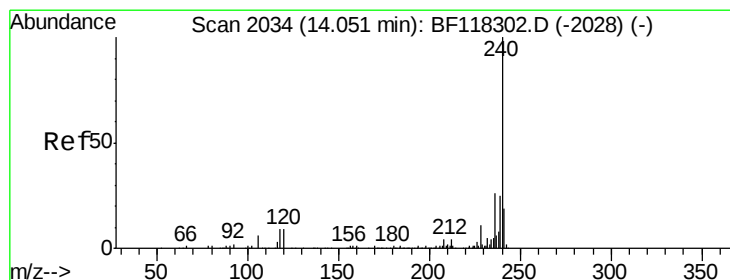
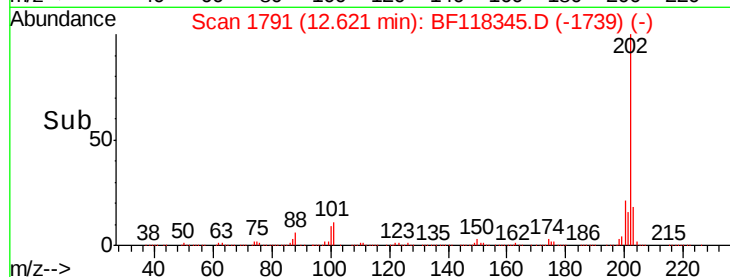
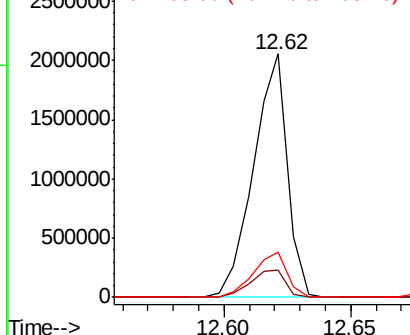
Tot Ion:	202	Resp:	1903157
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	29.5
203	18.4	0.0	37.6

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

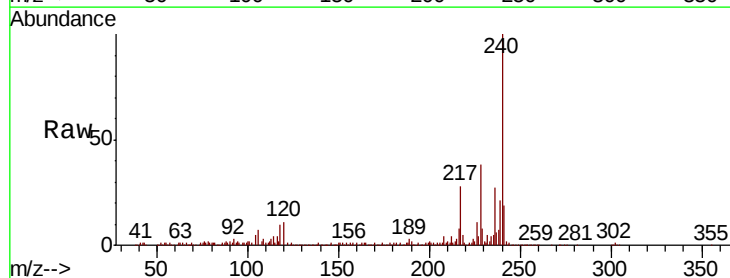
RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

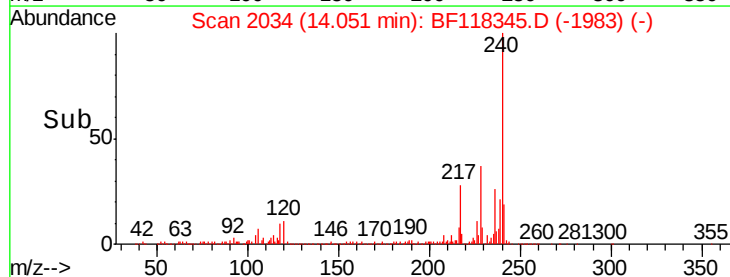
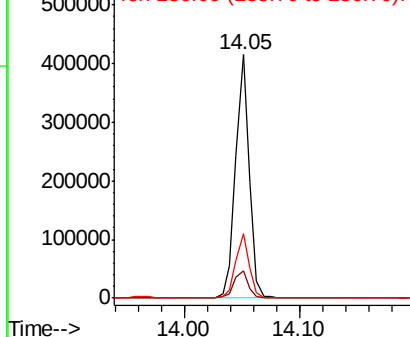
Lab File: BF118345.D

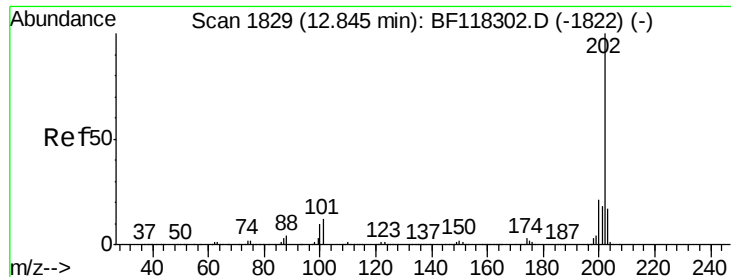
Acq: 27 Dec 2019 18:40

Tgt Ion:	240	Resp:	341090
Ion Ratio	Lower	Upper	
240	100		
120	11.0	7.1	10.7#
236	26.7	21.0	31.6



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





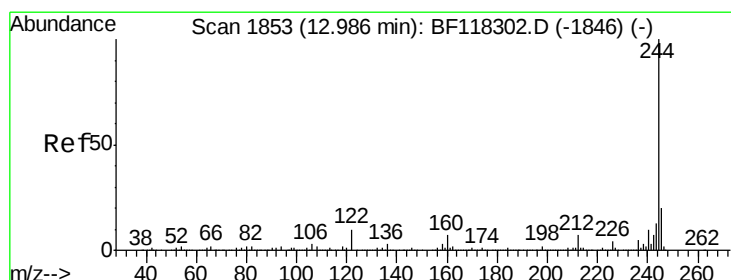
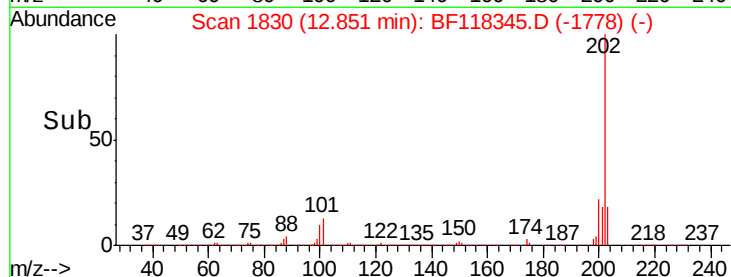
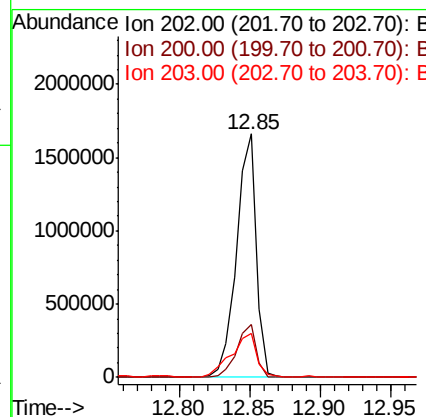
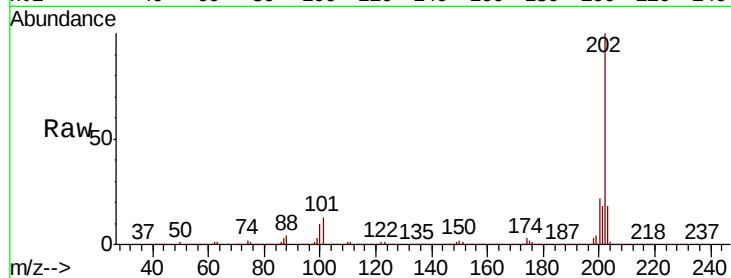
#78
Pvrene
Concen: 58.034 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.8	25.2
203	18.2	13.9	20.9

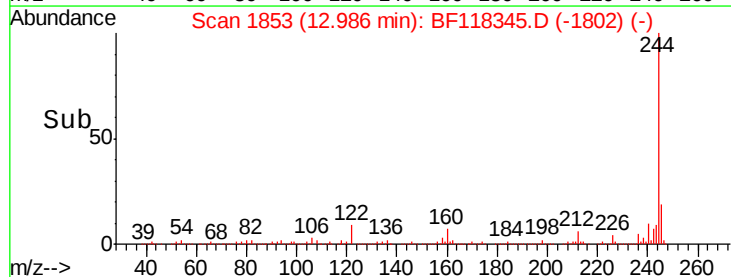
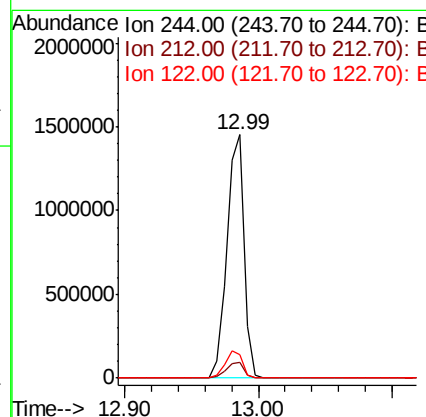
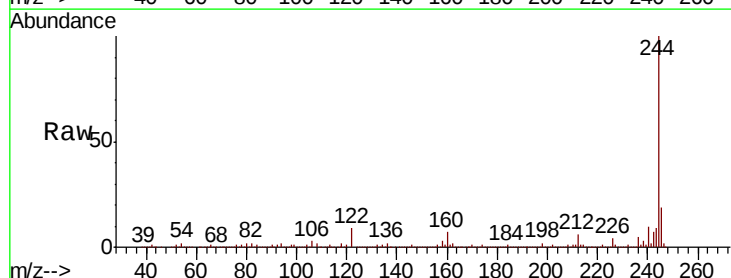
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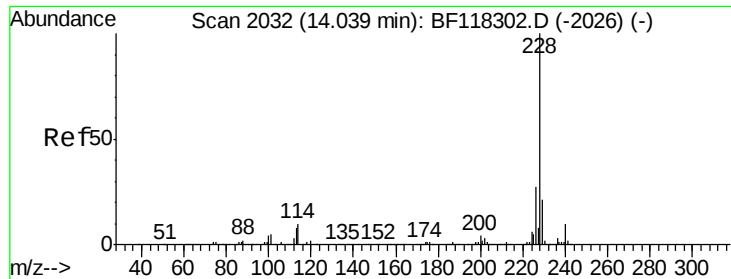
mohammad
12/29/2019 5:27:50 PM



#79
Terphenyl-d14
Concen: 64.327 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.2
122	9.4	7.8	11.8





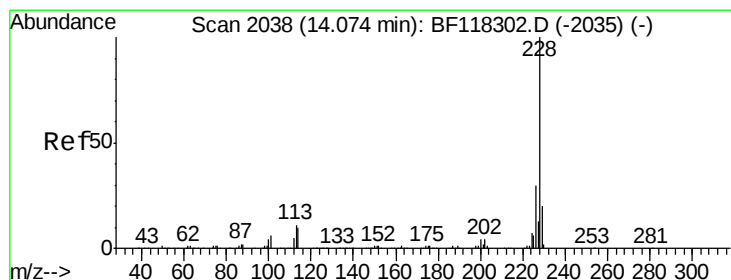
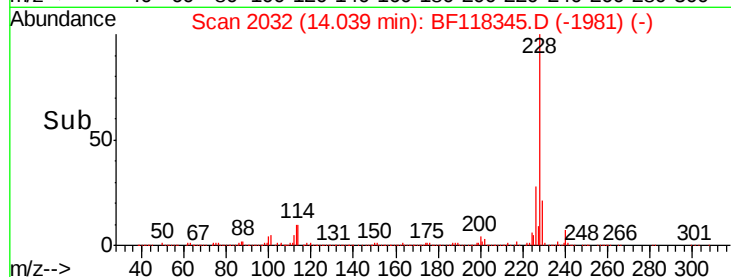
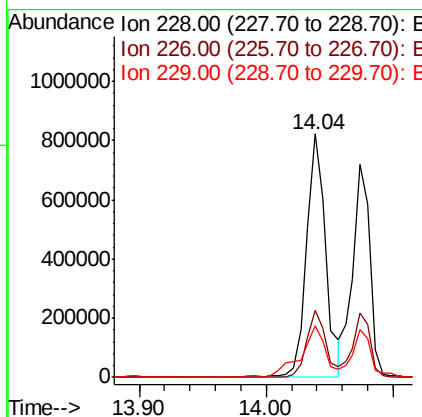
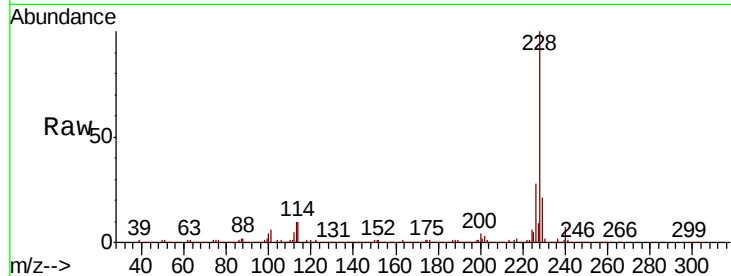
#81
Benzo(a)anthracene
Concen: 36.000 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.0	33.0
229	21.1	16.6	24.8

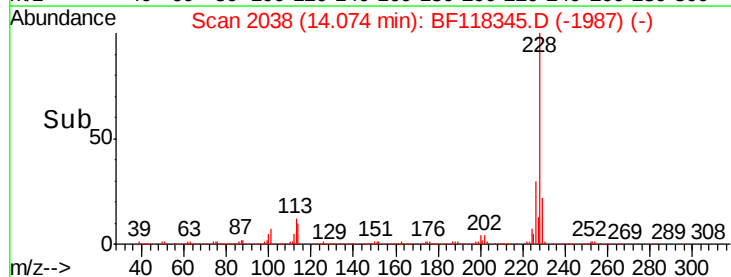
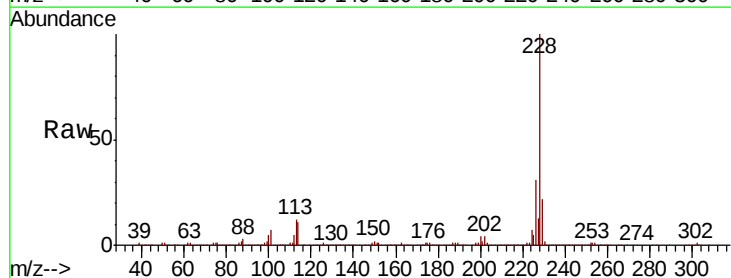
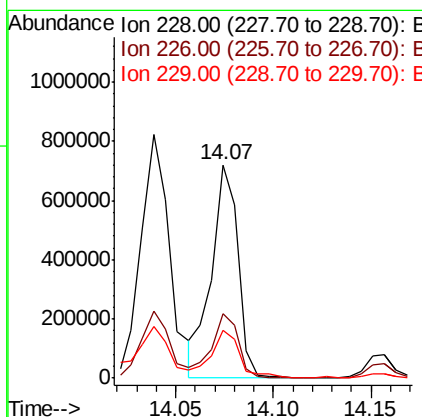
Manual Integrations
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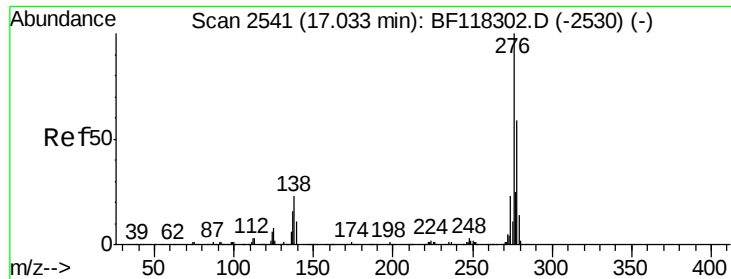
mohammad
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#83
Chrysene
Concen: 29.843 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.9	35.9
229	22.3	16.1	24.1





#86

Indeno(1,2,3-cd)pyrene

Concen: 25.357 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.02 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Instrument :

BNA_F

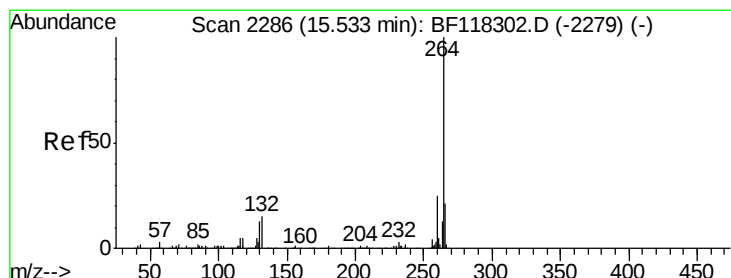
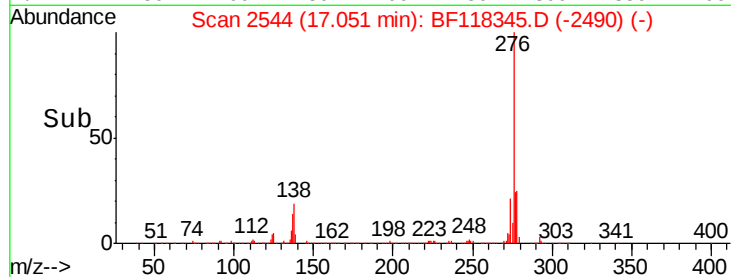
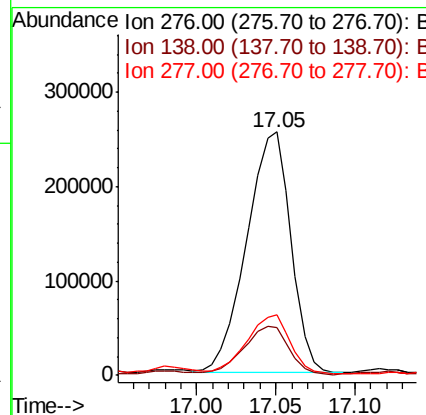
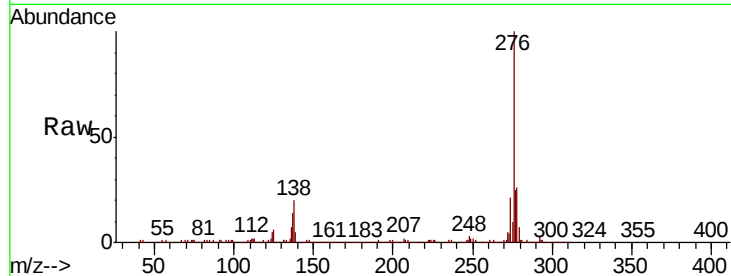
ClientSampleId :

SB-2-(0-2)

Tot Ion:	276	Resp:	493924
Ion Ratio	Lower	Upper	
276	100		
138	20.4	19.5	29.3
277	24.1	20.6	30.8

Manual Integrations
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#87

Perylene-d12

Concen: 20.000 ng

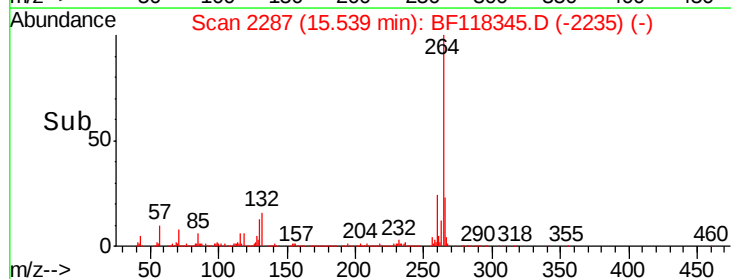
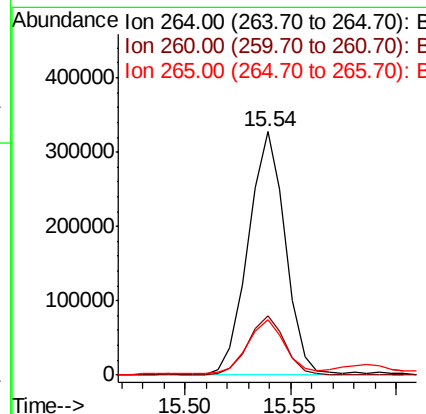
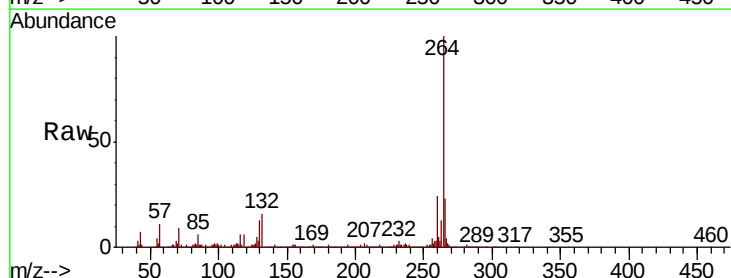
RT: 15.54 min Scan# 2287

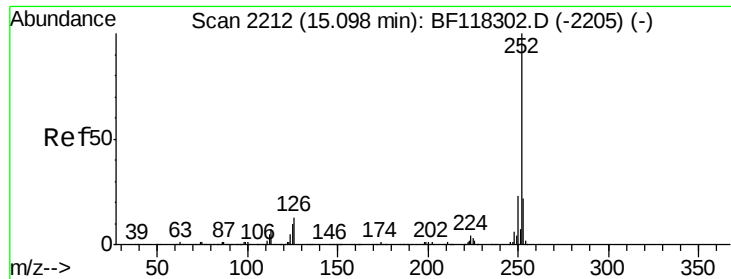
Delta R.T. 0.01 min

Lab File: BF118345.D

Acq: 27 Dec 2019 18:40

Tgt Ion:	264	Resp:	397455
Ion Ratio	Lower	Upper	
264	100		
260	24.4	19.8	29.6
265	22.7	17.0	25.4





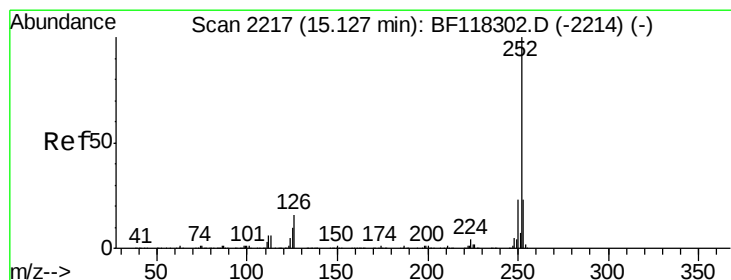
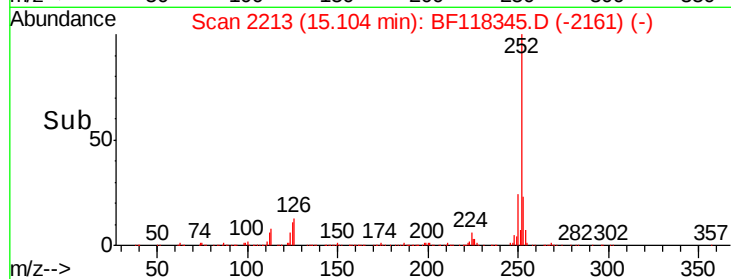
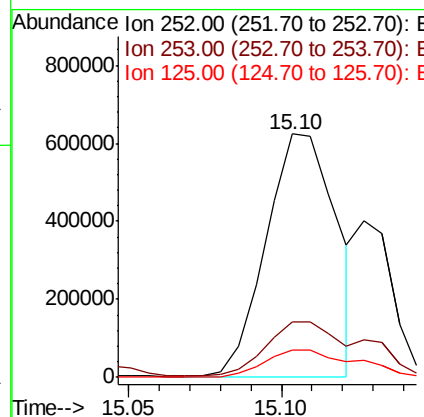
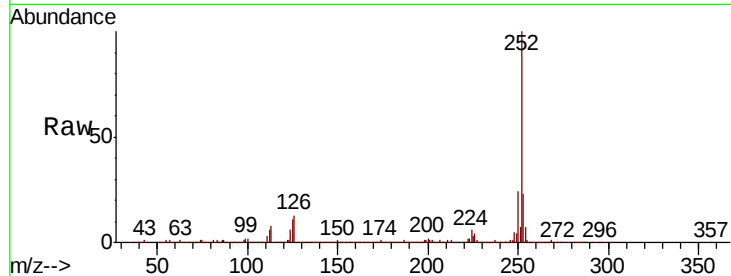
#88
Benzo(b)fluoranthene
Concen: 37.998 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	11.2	7.7	11.5

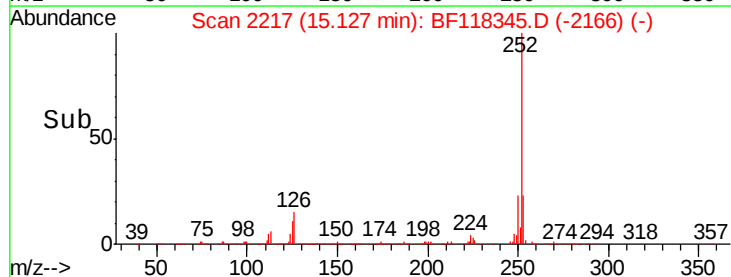
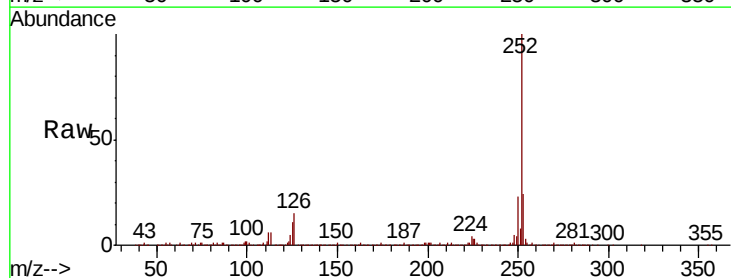
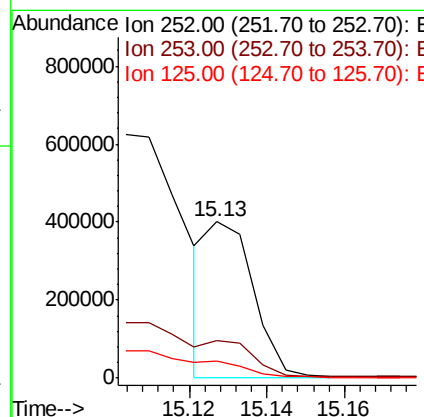
Manual Integrations
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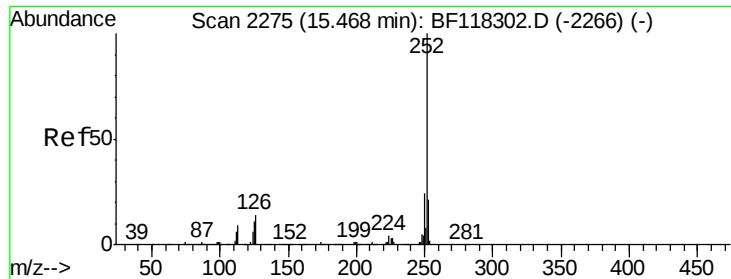
mohammad
12/29/2019 5:27:50 PM



#89
Benzo(k)fluoranthene
Concen: 13.038 ng m
RT: 15.13 min Scan# 2217
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	11.2	8.0	12.0





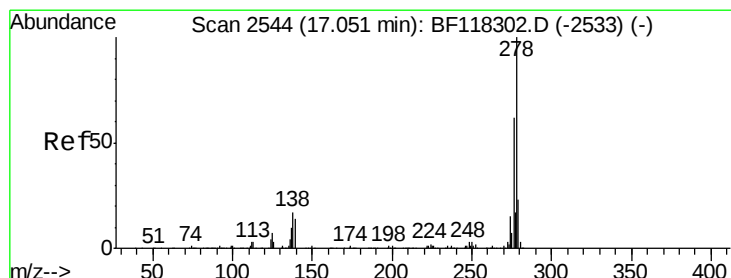
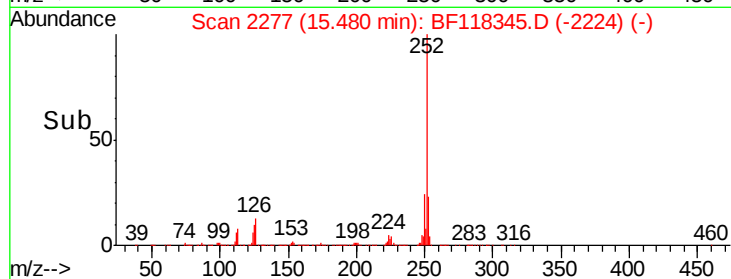
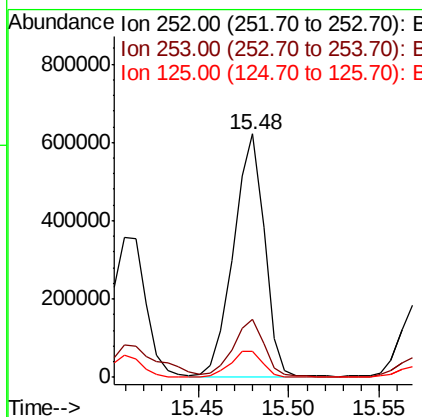
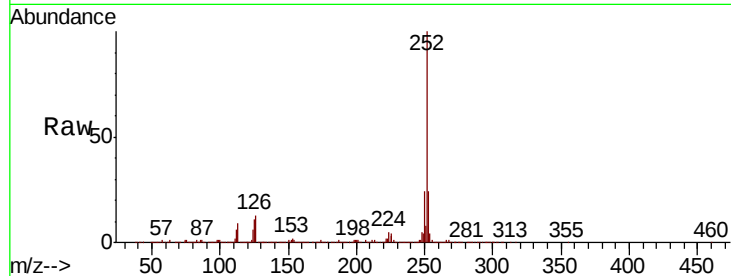
#90
Benzo(a)pyrene
Concen: 31.681 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Instrument :
BNA_F
ClientSampleId :
SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	10.5	9.0	13.4

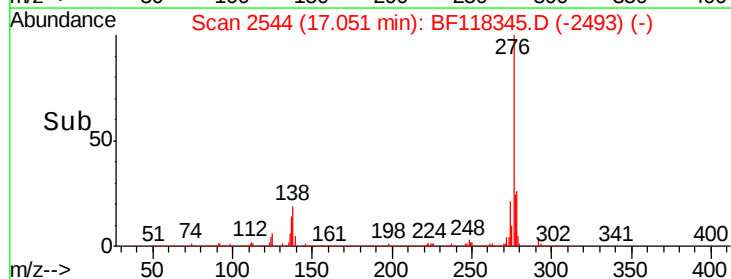
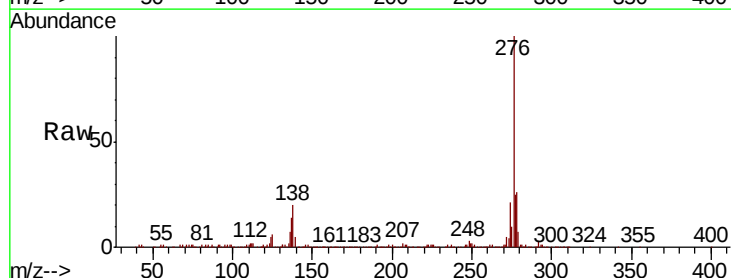
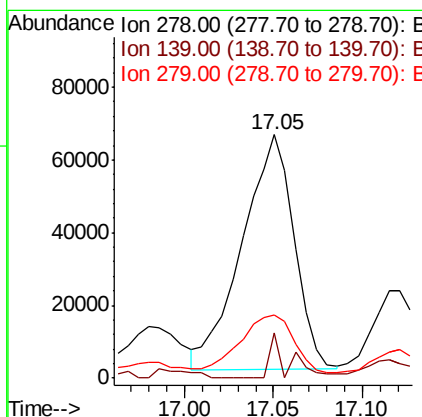
Manual Integrations
APPROVED

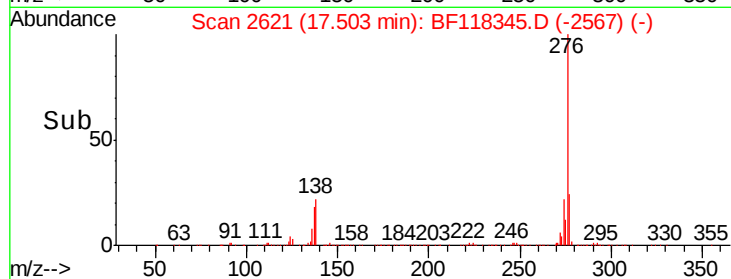
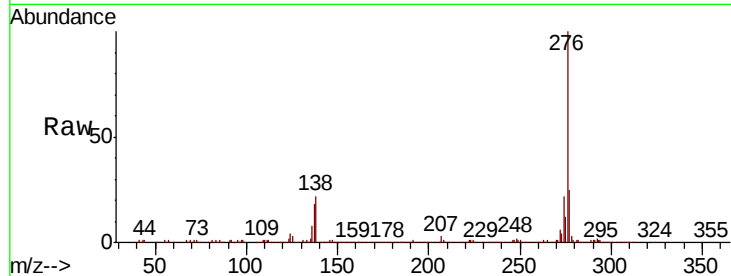
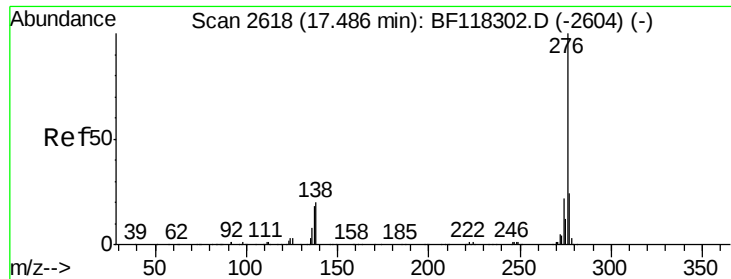
mohammad
12/29/2019 5:27:50 PM



#91
Dibenzo(a,h)anthracene
Concen: 6.496 ng m
RT: 17.05 min Scan# 2544
Delta R.T. -0.00 min
Lab File: BF118345.D
Acq: 27 Dec 2019 18:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.8	11.5	17.3#
279	25.7	18.3	27.5





#92
 Benzo(a,h,i)perylene
 Concen: 22.680 ng
 RT: 17.50 min Scan# 2621
 Delta R.T. 0.02 min
 Lab File: BF118345.D
 Acq: 27 Dec 2019 18:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.1	28.7
138	22.3	16.1	24.1

Manual Integrations
 APPROVED

mohammad
 12/29/2019 5:27:50 PM

