

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
 Data File : BF118348.D
 Acq On : 27 Dec 2019 20:05
 Operator : JU
 Sample : K6443-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH-2

Manual Integrations
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 12/29/2019 5:28:07 PM

Quant Time: Dec 28 02:36:54 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	143295	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	556715	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	282894	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	481325	20.00	ng	0.00
76) Chrysene-d12	14.05	240	367216	20.00	ng	0.00
87) Perylene-d12	15.54	264	388442	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1030605	122.77	ng	0.01
7) Phenol-d6	6.49	99	1309069	125.71	ng	0.00
23) Nitrobenzene-d5	7.42	82	778877	80.02	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	382085	109.37	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	1564879	84.44	ng	0.00
79) Terphenyl-d14	12.99	244	1631570	73.71	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.16	128	117879	4.166	ng	98
37) 2-Methylnaphthalene	8.86	142	53738	2.774	ng	95
38) 1-Methylnaphthalene	8.95	142	38435m	2.106	ng	
50) Dimethylphthalate	9.61	163	85249	4.015	ng	99
52) Acenaphthene	9.93	154	49164	3.022	ng	97
55) Dibenzofuran	10.10	168	54496	2.267	ng	# 97
58) Fluorene	10.45	166	50464	2.601	ng	95
71) Phenanthrene	11.42	178	481662	18.356	ng	100
72) Anthracene	11.47	178	130119	4.954	ng	98
75) Fluoranthene	12.62	202	645652	24.381	ng	99
78) Pyrene	12.84	202	634883	21.172	ng	99
81) Benzo(a)anthracene	14.04	228	415674	16.172	ng	98
83) Chrysene	14.07	228	372407	15.131	ng	98
86) Indeno(1,2,3-cd)pyrene	17.06	276	270146	12.882	ng	94
88) Benzo(b)fluoranthene	15.11	252	626958m	24.315	ng	
89) Benzo(k)fluoranthene	15.13	252	150000m	6.059	ng	
90) Benzo(a)pyrene	15.48	252	449938	19.809	ng	97
91) Dibenzo(a,h)anthracene	17.06	278	70209	3.562	ng	# 87
92) Benzo(a,h,i)perylene	17.51	276	268149	14.083	ng	99

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

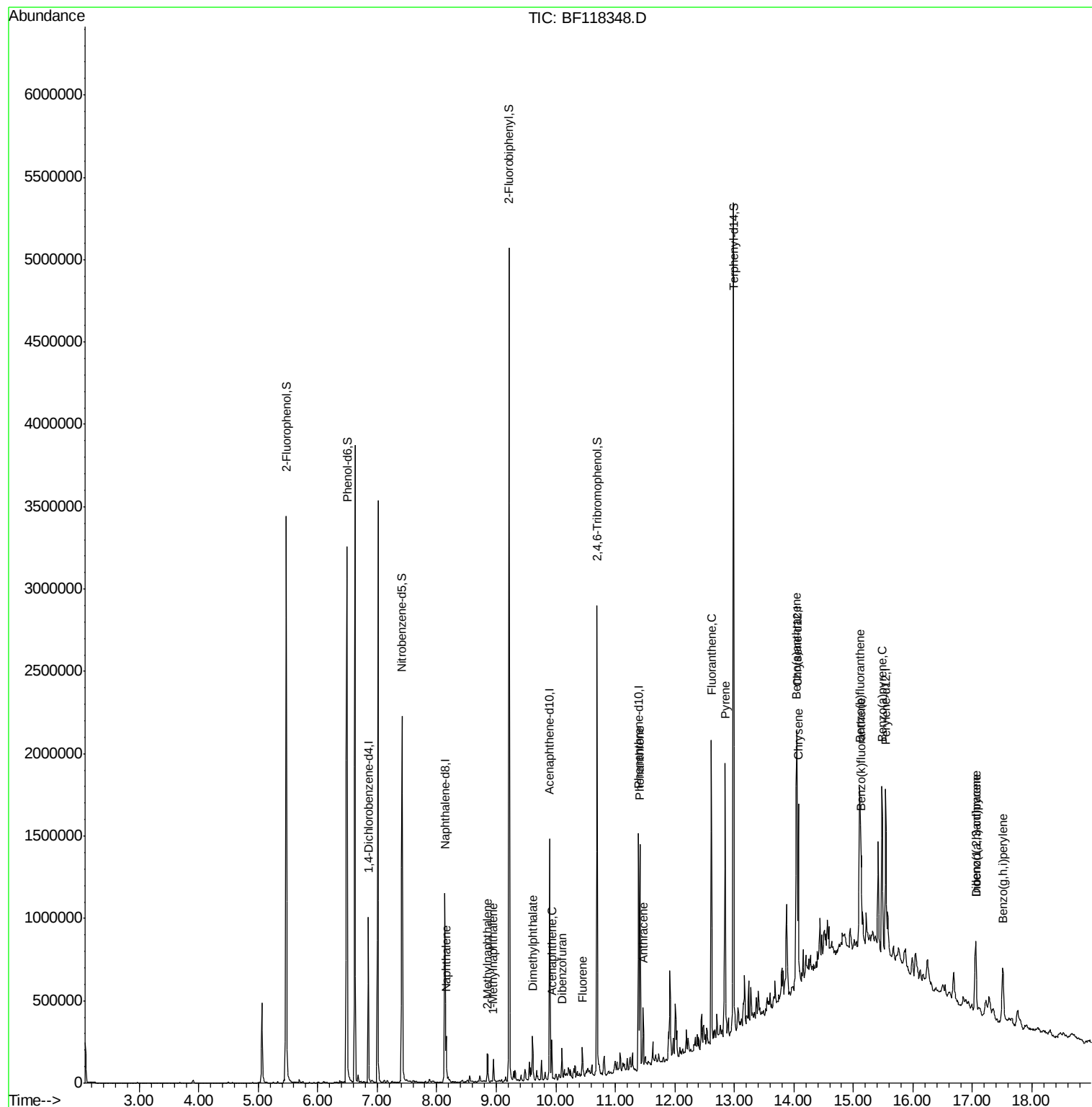
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122719\
Data File : BF118348.D
Acq On : 27 Dec 2019 20:05
Operator : JU
Sample : K6443-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

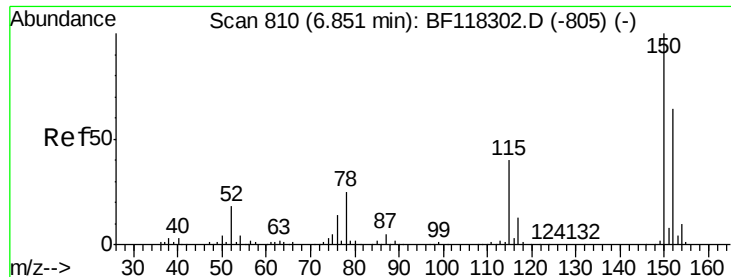
Instrument :
BNA_F
ClientSampled :
PH-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

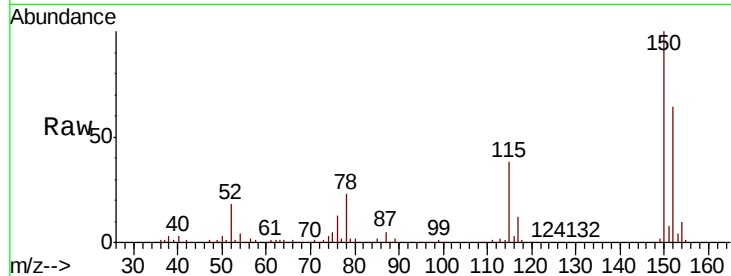
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampled :
PH-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	125.4	188.2
115	58.2	50.2	75.4

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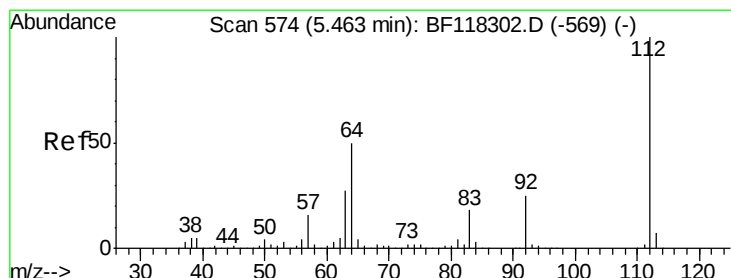
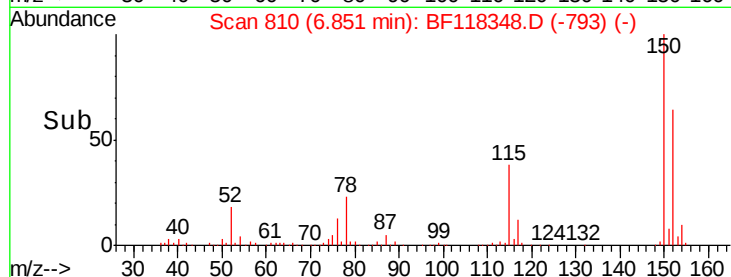
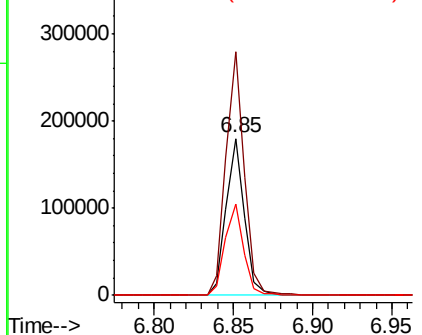


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

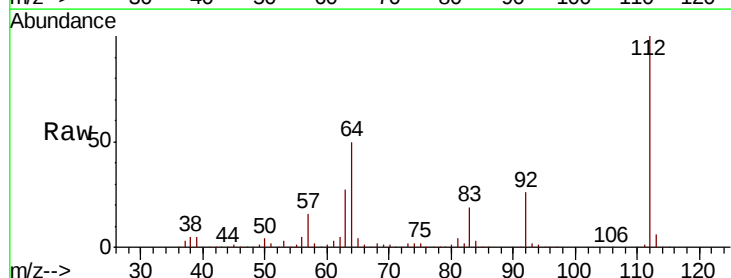
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 122.770 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.7	59.5
63	27.1	21.7	32.5

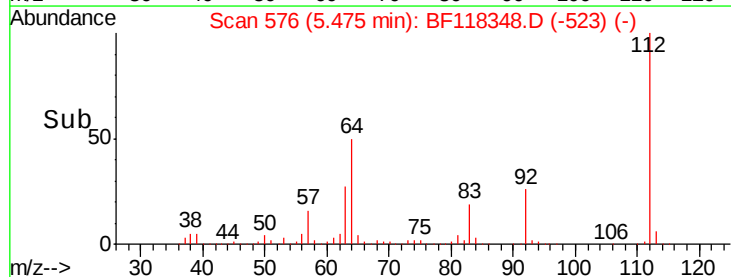
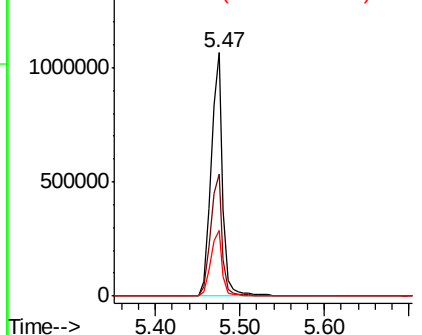


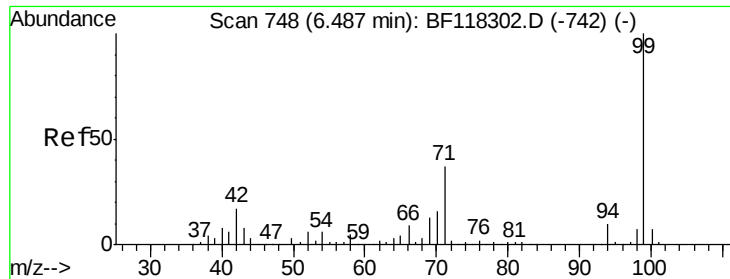
Abundance

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: 125.706 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Instrument :

BNA_F

ClientSampled :

PH-2

Tot Ion: 99 Resp: 1309069

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

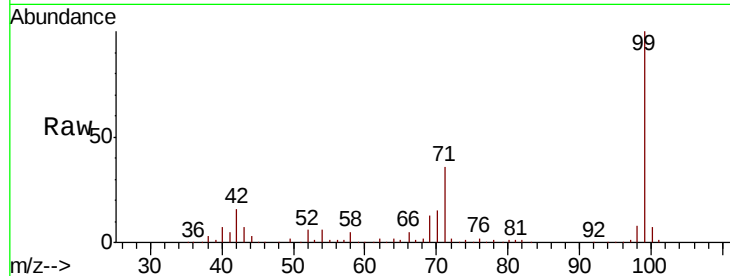
71 36.1 29.4 44.2

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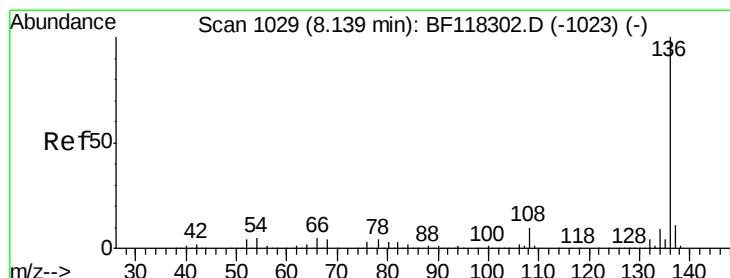
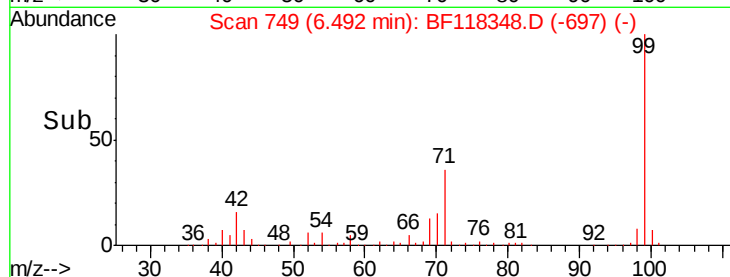
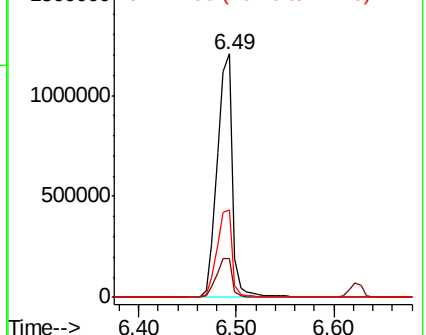
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Tgt Ion: 136 Resp: 556715

Ion Ratio Lower Upper

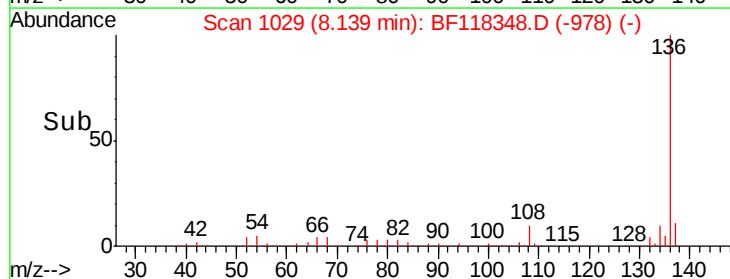
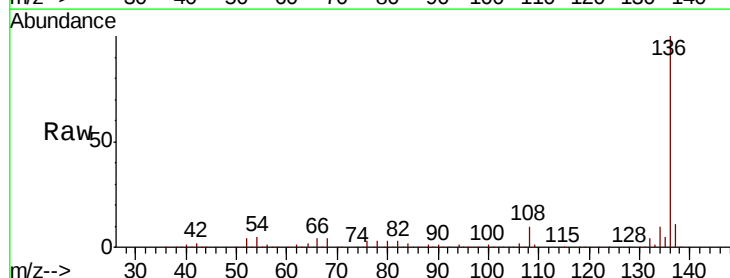
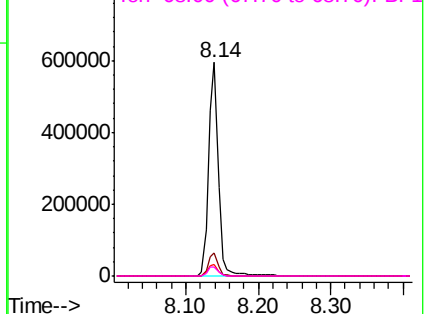
136 100

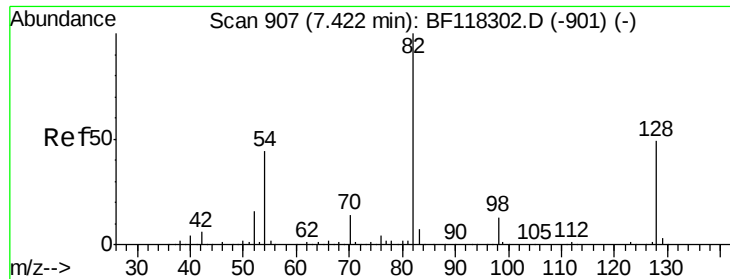
137 10.9 8.9 13.3

54 5.3 4.2 6.4

68 4.3 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





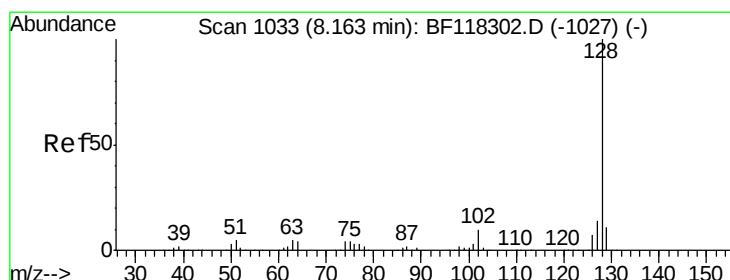
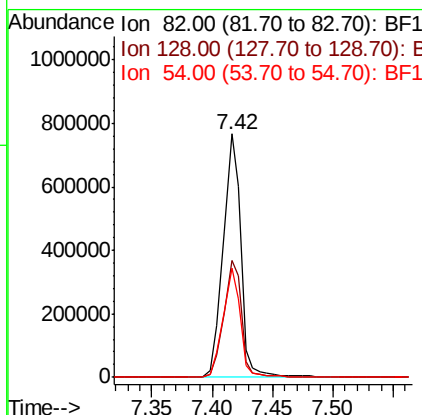
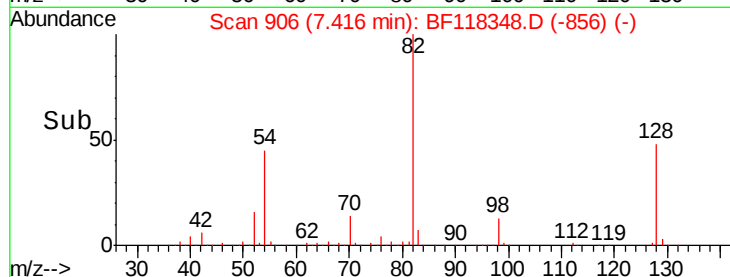
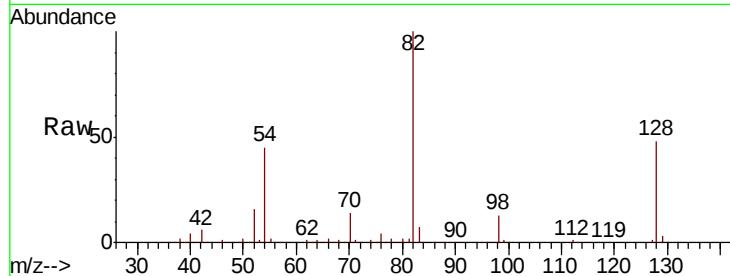
#23
Nitrobenzene-d5
Concen: 80.019 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.2	39.6	59.4
54	44.6	34.9	52.3

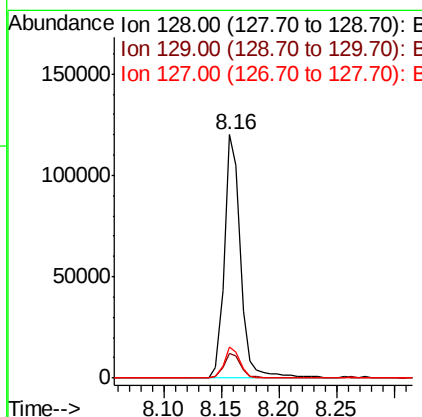
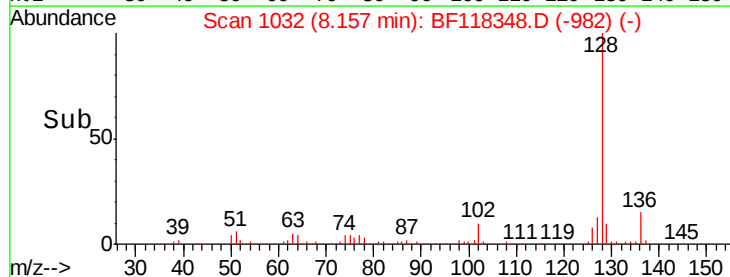
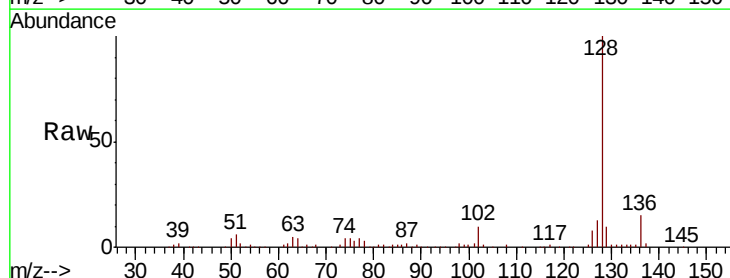
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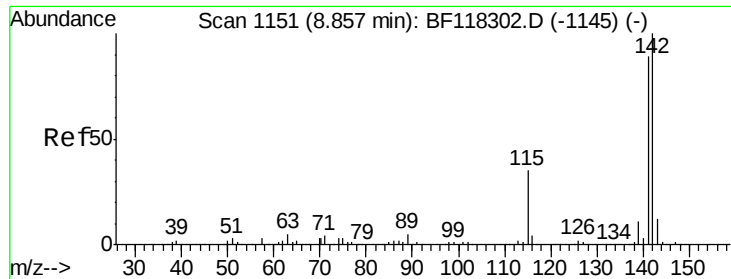
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#31
Naphthalene
Concen: 4.166 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.0	13.4
127	12.6	11.0	16.4





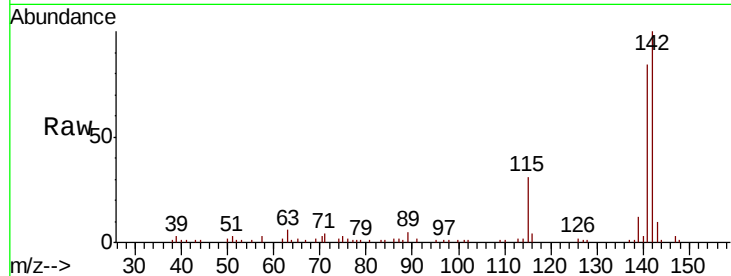
#37
2-Methylnaphthalene
Concen: 2.774 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.5	71.2	106.8
115	31.4	28.0	42.0

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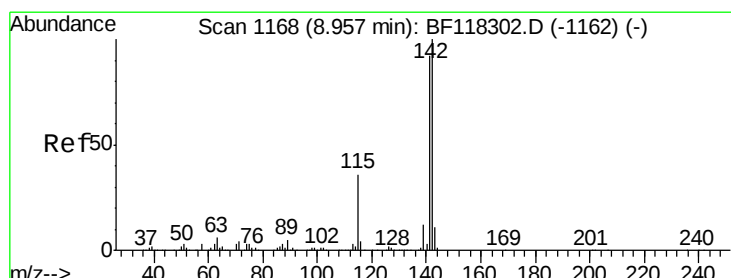
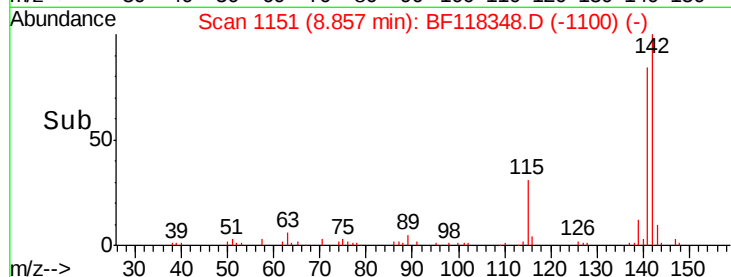
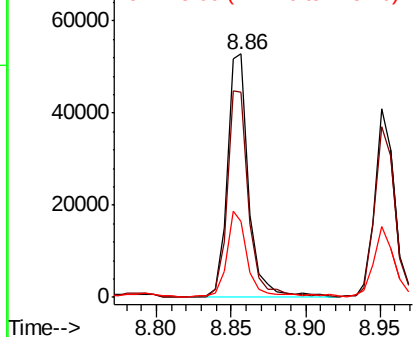


Abundance

Ion 142.00 (141.70 to 142.70): E

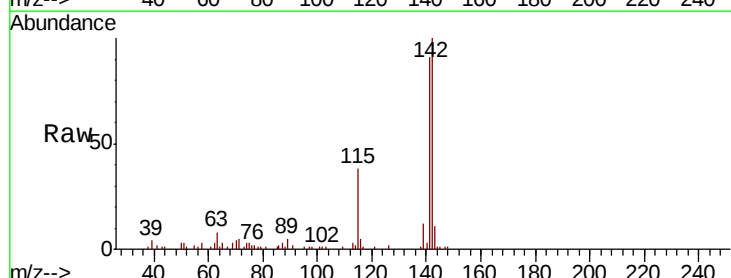
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 2.106 ng m
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.4	110.2
116	5.1	2.9	4.3#

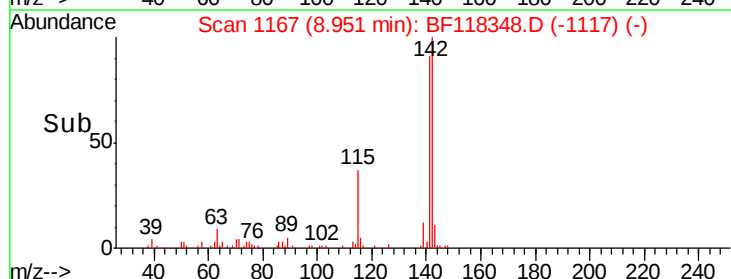
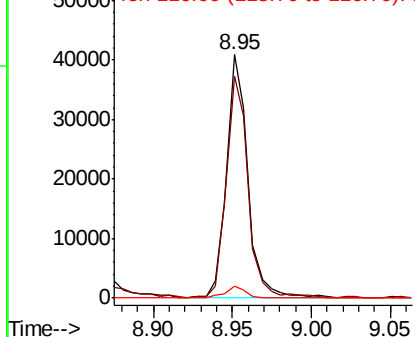


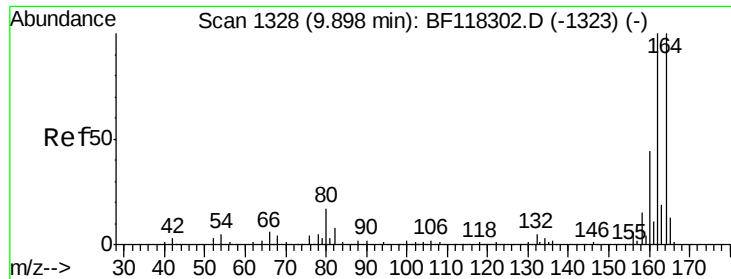
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





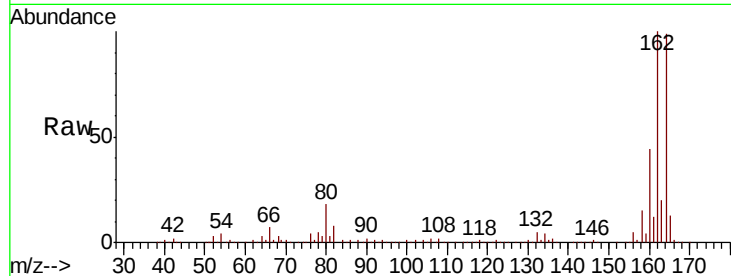
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. 0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.0	120.0
160	44.1	34.8	52.2

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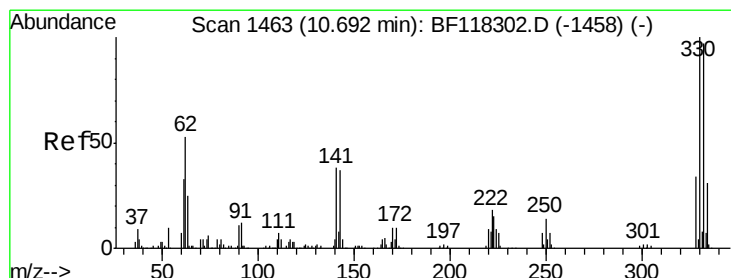
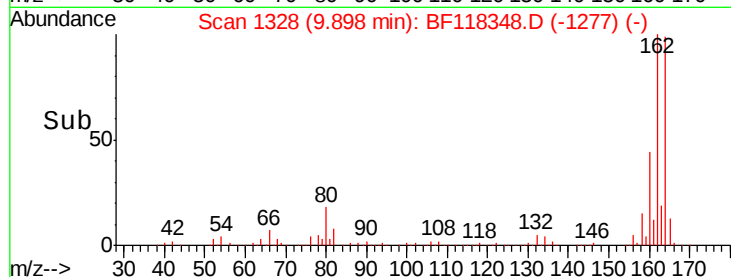
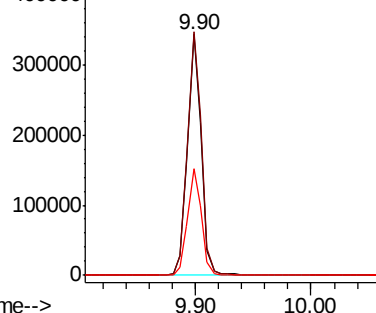


Abundance

Ion 164.00 (163.70 to 164.70): E

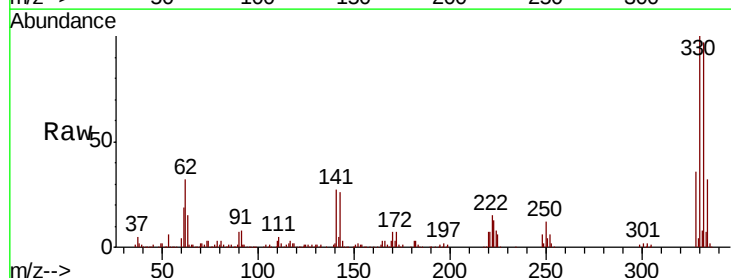
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 109.369 ng
RT: 10.70 min Scan# 1464
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	114.8
141	33.0	26.0	39.0

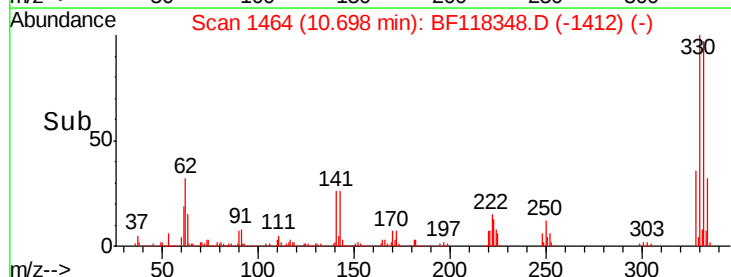
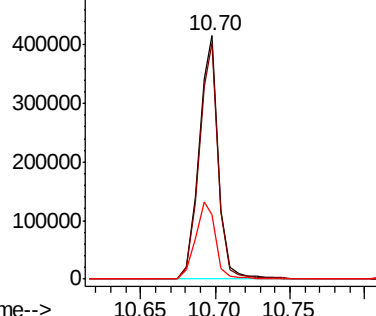


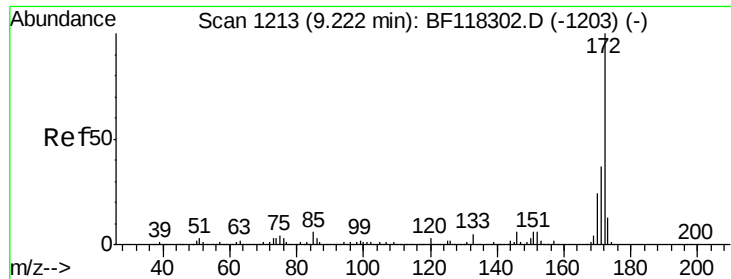
Abundance

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





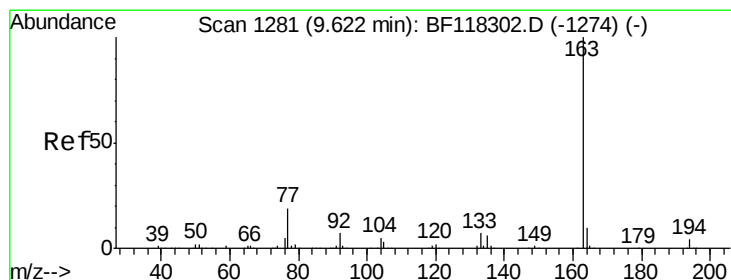
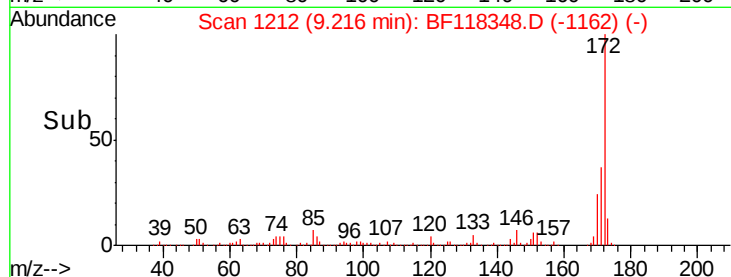
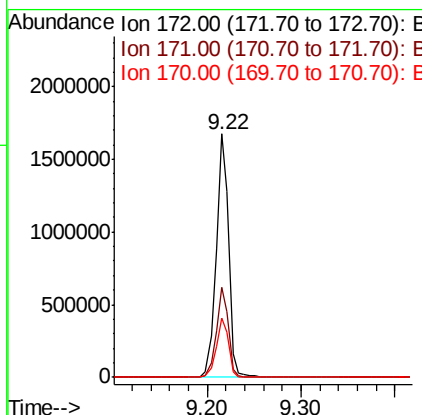
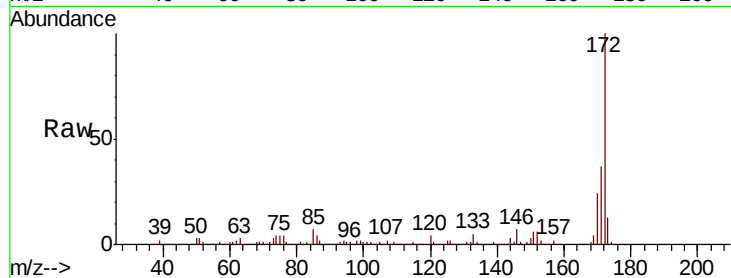
#45
2-Fluorobiphenyl
Concen: 84.439 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.3	43.9
170	24.4	19.2	28.8

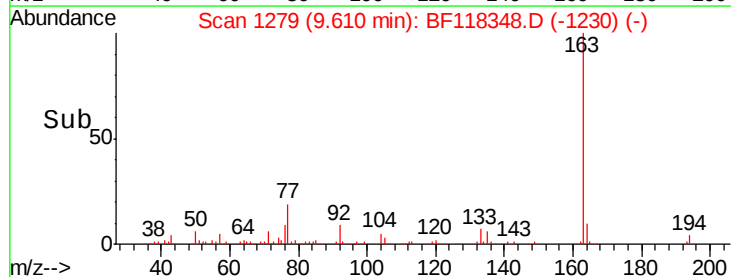
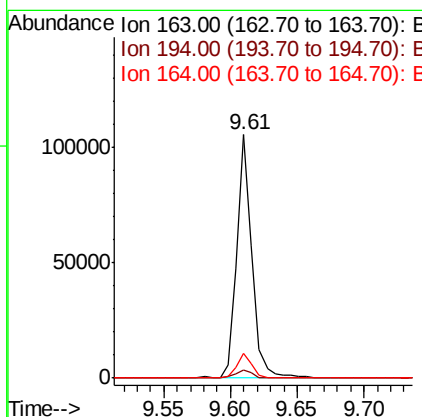
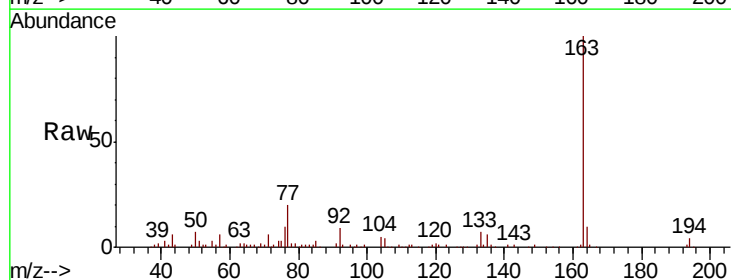
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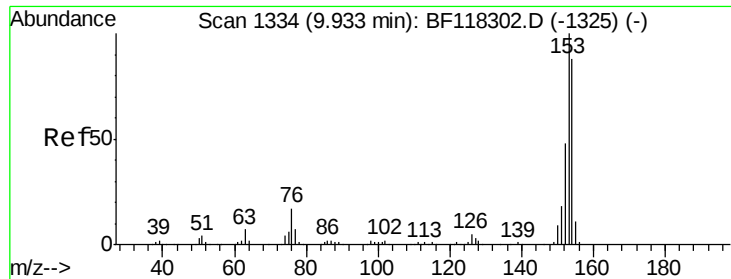
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#50
Dimethylphthalate
Concen: 4.015 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.2	4.8
164	10.2	7.9	11.9





#52

Acenaphthene

Concen: 3.022 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.00 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Instrument :

BNA_F

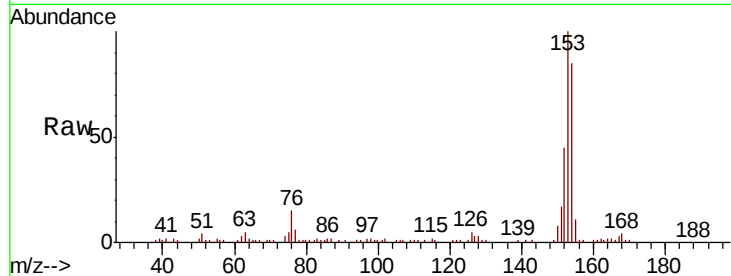
ClientSampled :

PH-2

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.3	90.6	136.0
152	53.1	43.1	64.7

Manual Integrations
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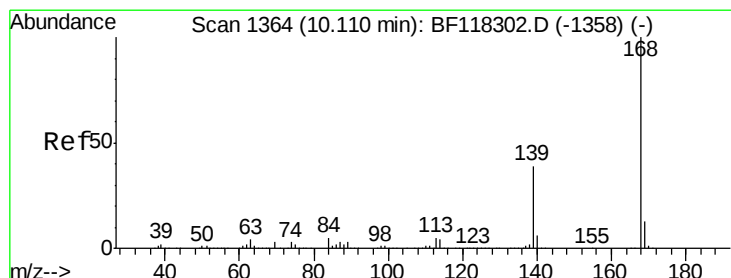
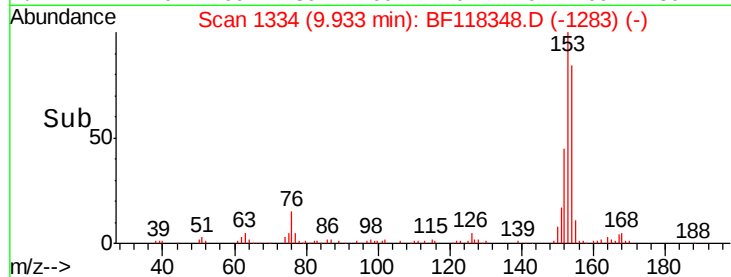
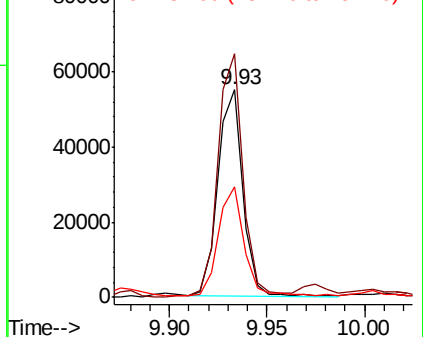


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.267 ng

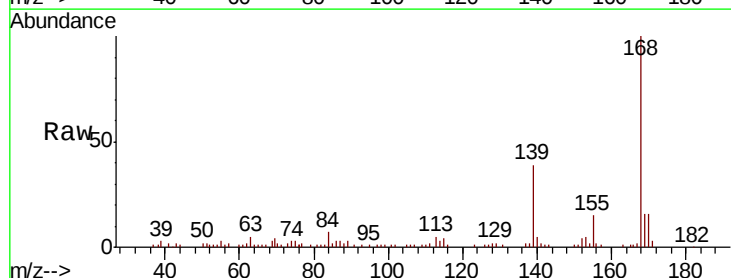
RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.5	47.3
169	16.0	10.4	15.6#

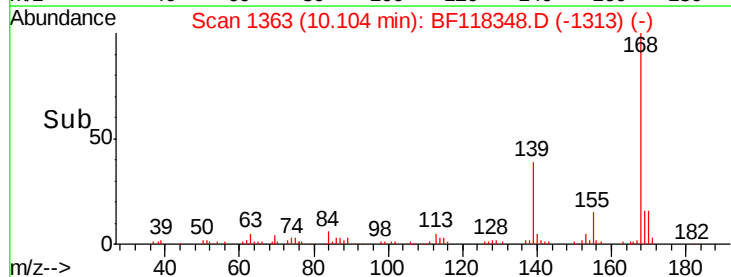
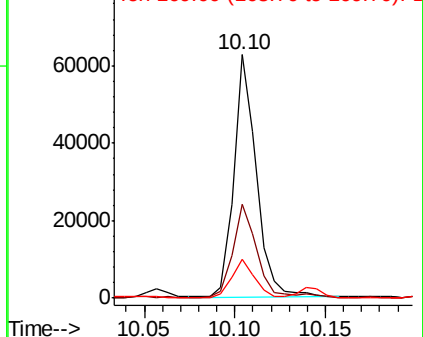


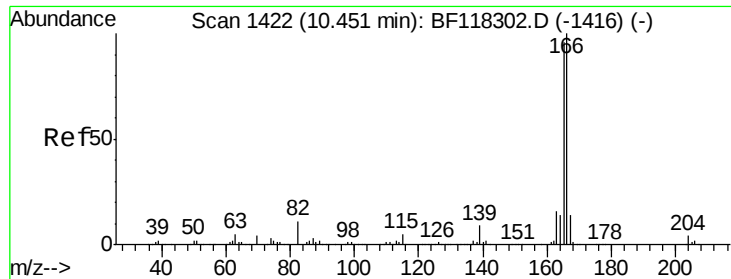
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





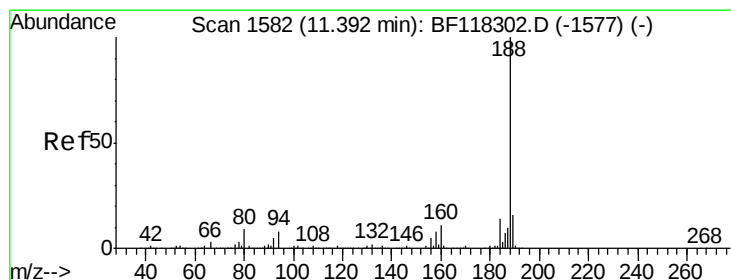
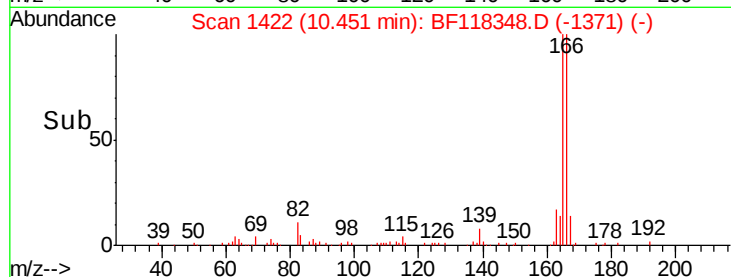
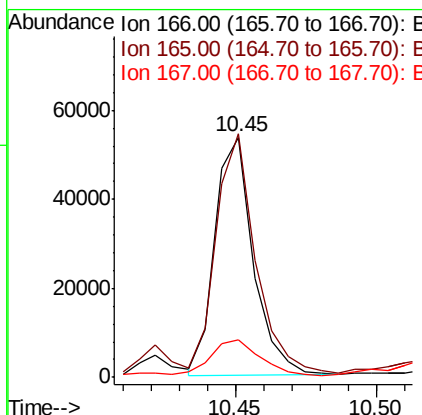
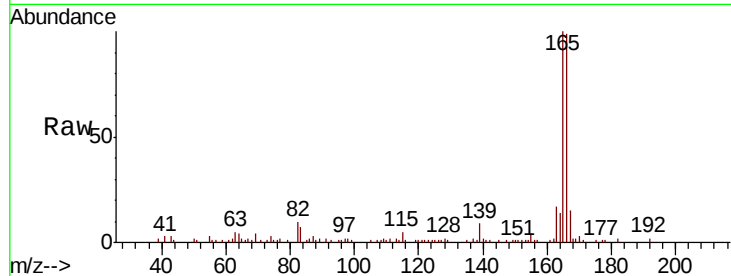
#58
 Fluorene
 Concen: 2.601 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. -0.00 min
 Lab File: BF118348.D
 Acq: 27 Dec 2019 20:05

Instrument :
 BNA_F
 ClientSampleId :
 PH-2

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	101.4	77.0	115.4	
167	15.4	10.9	16.3	

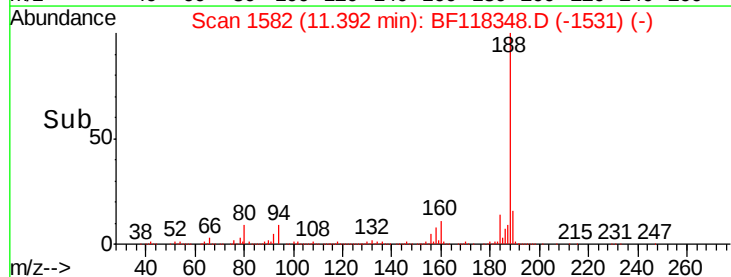
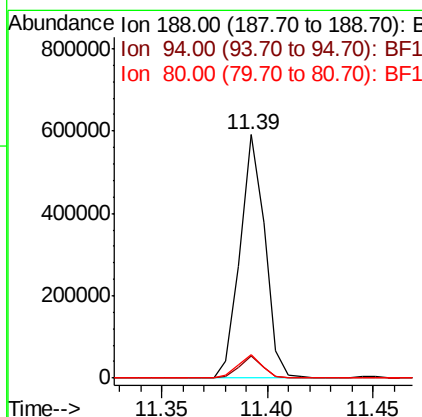
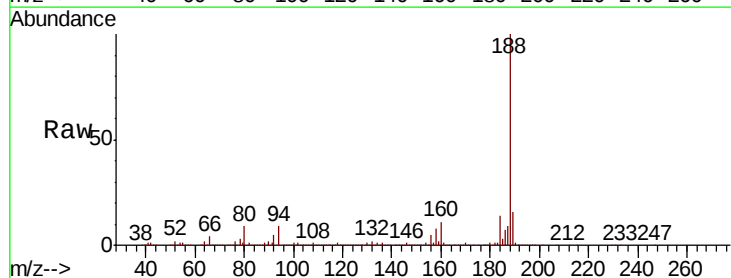
Manual Integrations
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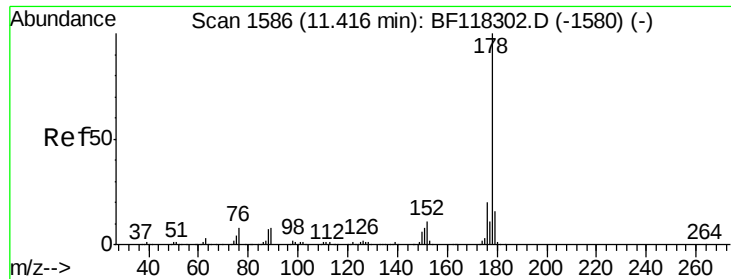
mohammad
 12/29/2019 5:28:07 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: BF118348.D
 Acq: 27 Dec 2019 20:05

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.1	6.7	10.1	
80	9.5	7.2	10.8	





#71

Phenanthrene

Concen: 18.356 ng

RT: 11.42 min Scan# 1586

Delta R.T. 0.00 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Instrument :

BNA_F

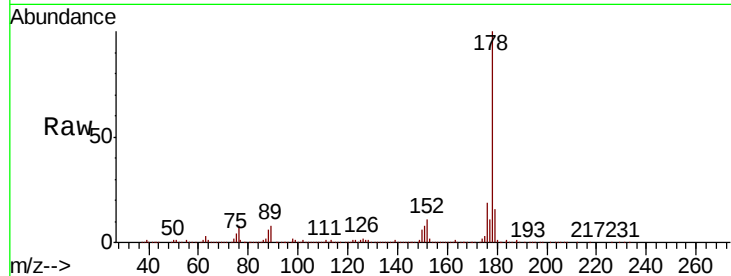
ClientSampleId :

PH-2

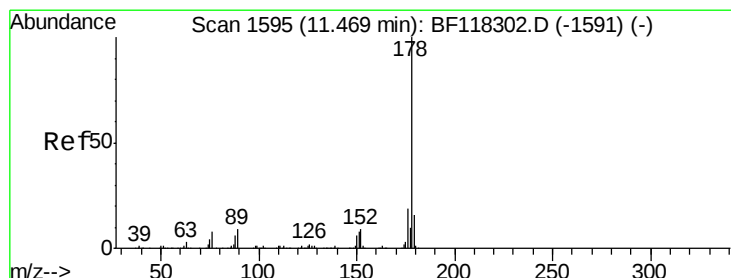
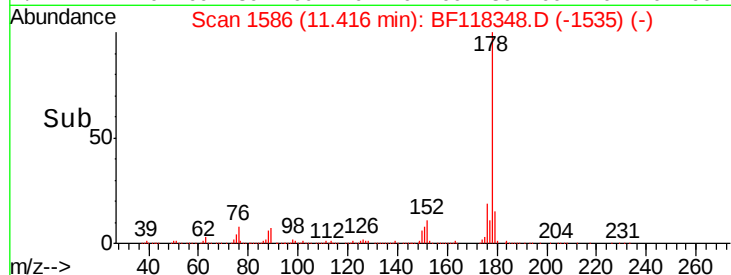
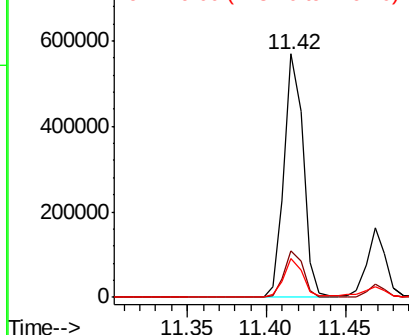
Tot Ion:	178	Resp:	481662
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.6	23.4
179	15.7	12.6	19.0

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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



#72

Anthracene

Concen: 4.954 ng

RT: 11.47 min Scan# 1595

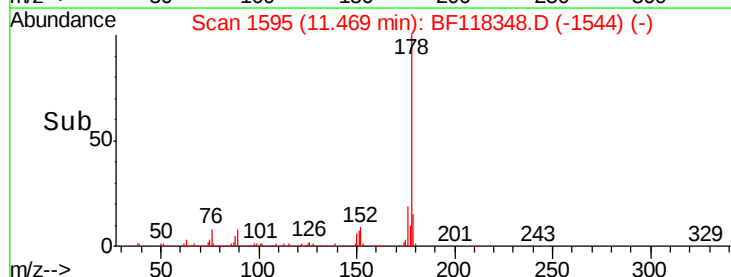
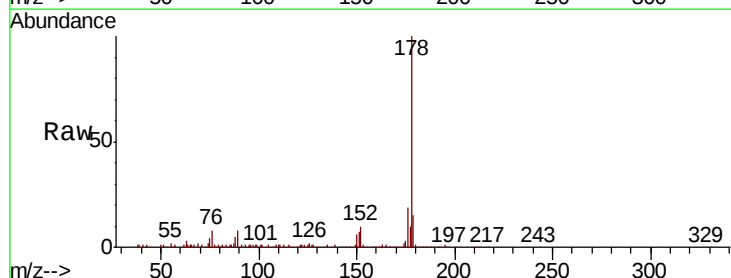
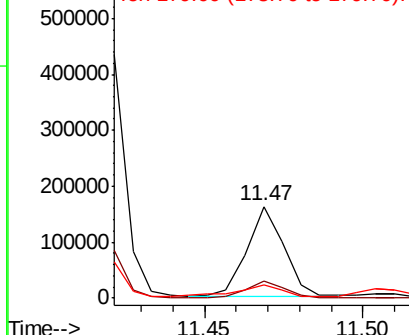
Delta R.T. -0.00 min

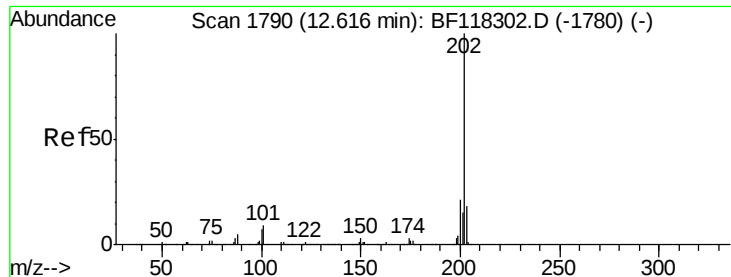
Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Tgt Ion:	178	Resp:	130119
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.2	22.8
179	15.0	12.9	19.3

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





#75

Fluoranthene

Concen: 24.381 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Instrument :

BNA_F

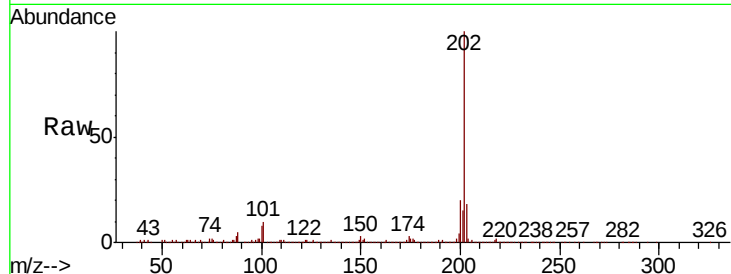
ClientSampled :

PH-2

Tot Ion	Ratio	Resp	Lower	Upper
202	100	645652		
101	10.3	0.0	29.5	
203	17.8	0.0	37.6	

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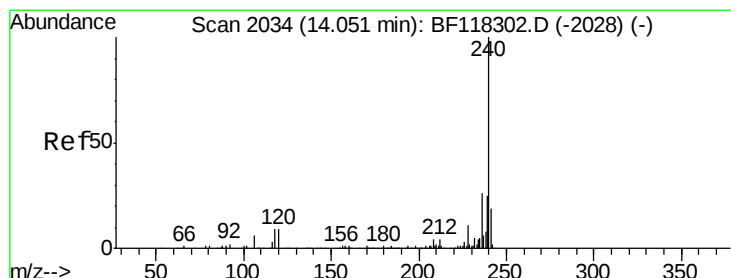
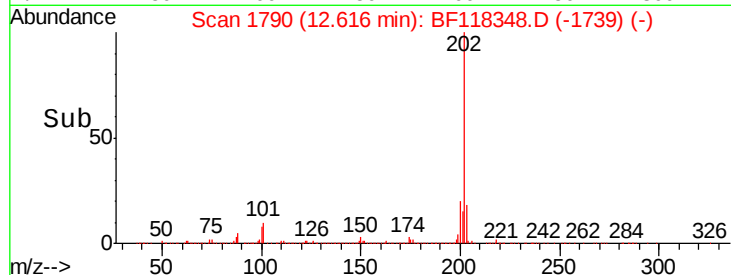
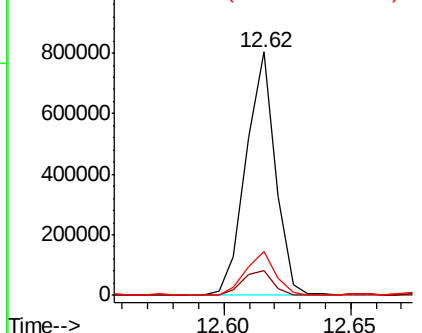


Abundance

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

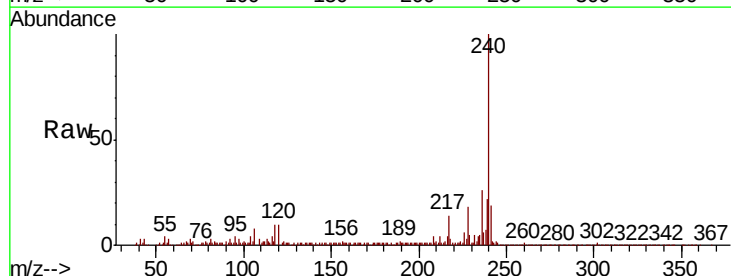
RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	367216		
120	10.2	7.1	10.7	
236	26.3	21.0	31.6	

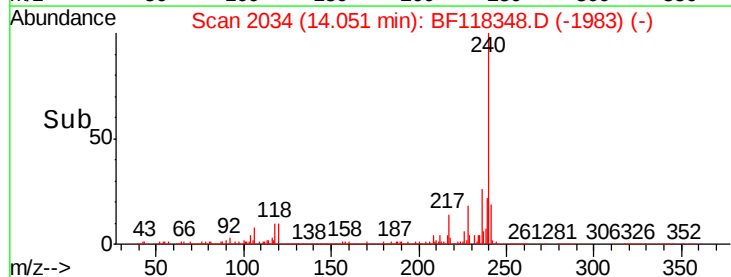
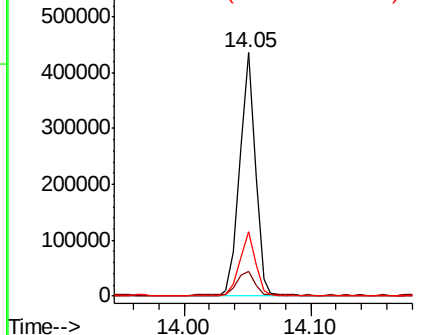


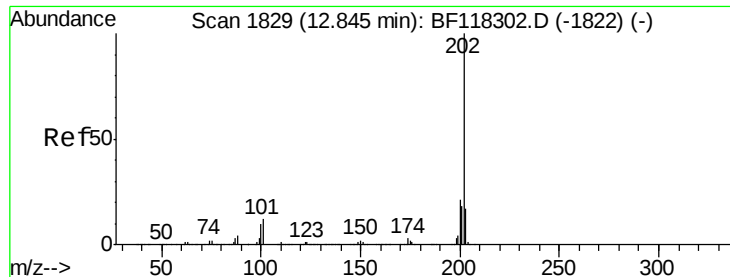
Abundance

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





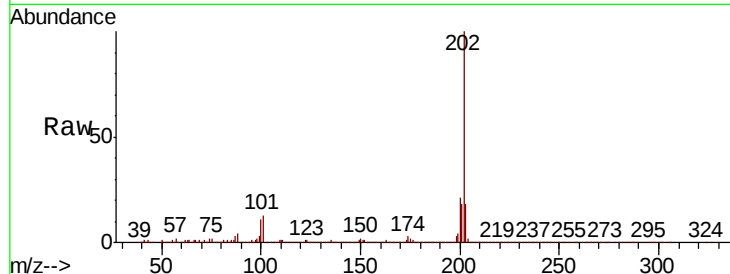
#78
Pvrene
Concen: 21.172 ng
RT: 12.84 min Scan# 1829
Delta R.T. 0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.0	13.9	20.9

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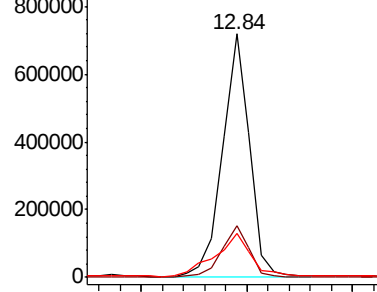


Abundance

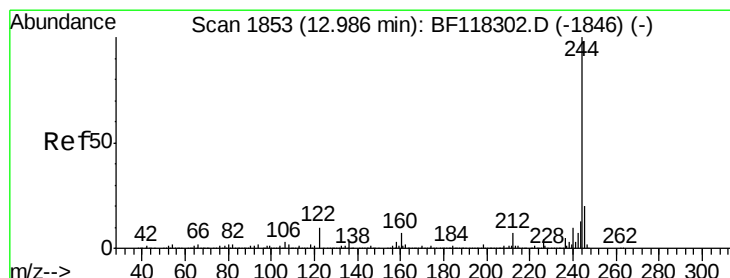
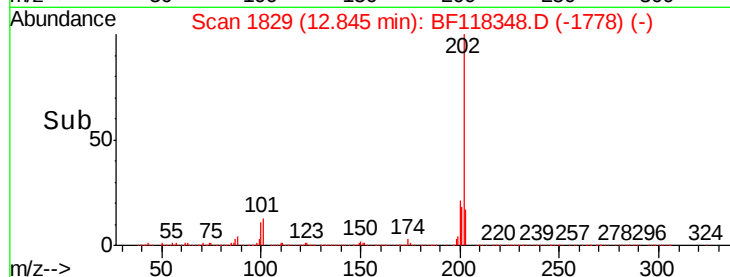
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

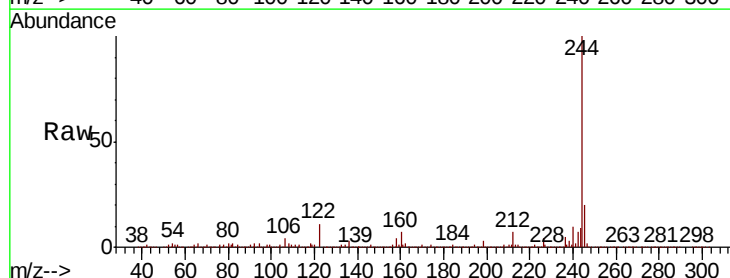


Time-->



#79
Terphenyl-d14
Concen: 73.712 ng
RT: 12.99 min Scan# 1853
Delta R.T. 0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	11.0	7.8	11.8

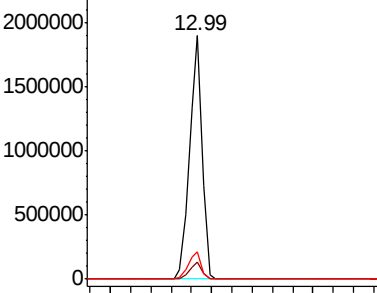


Abundance

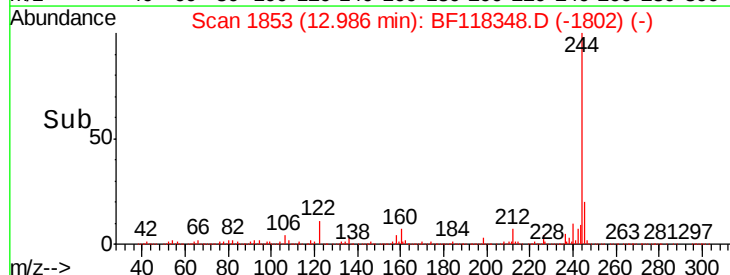
Ion 244.00 (243.70 to 244.70): E

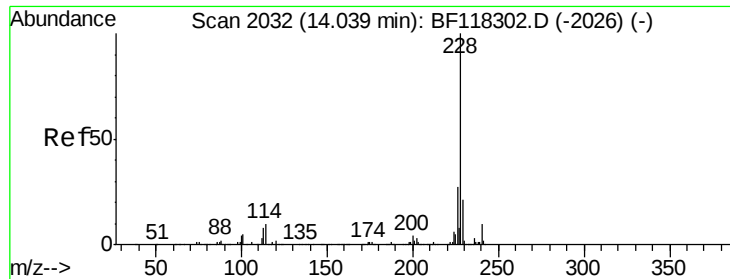
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





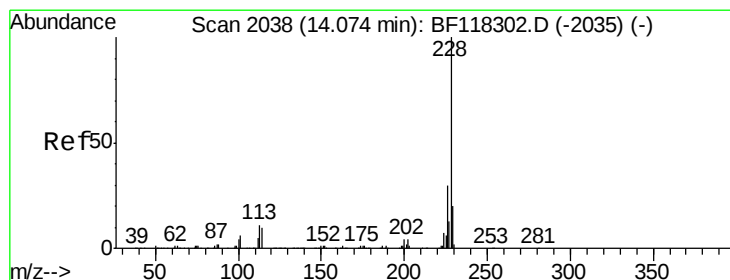
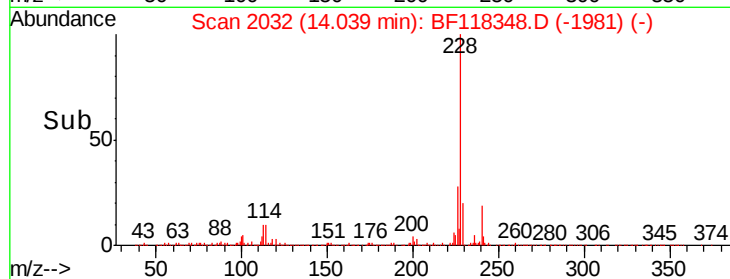
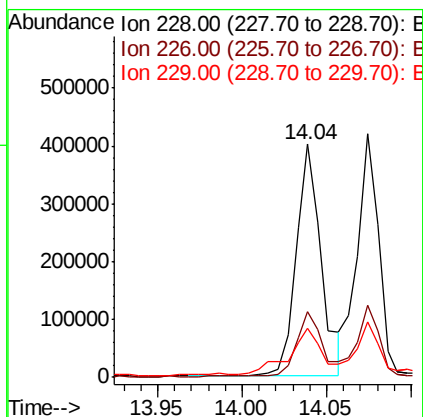
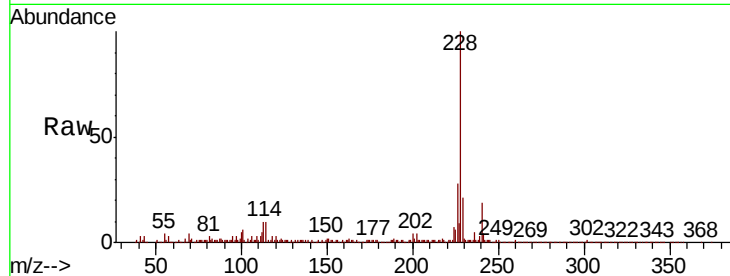
#81
Benzo(a)anthracene
Concen: 16.172 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.0	33.0
229	21.2	16.6	24.8

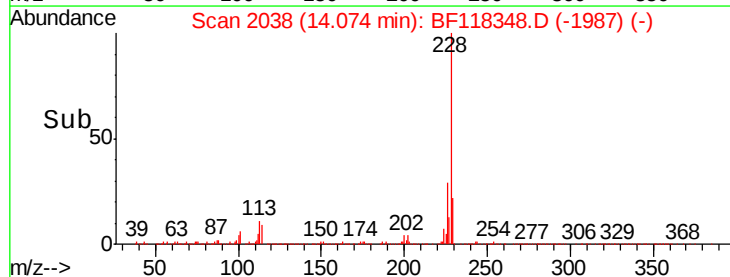
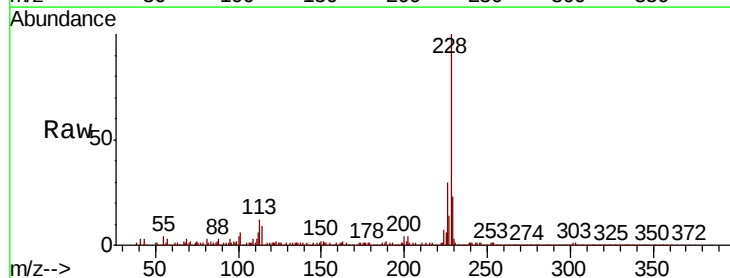
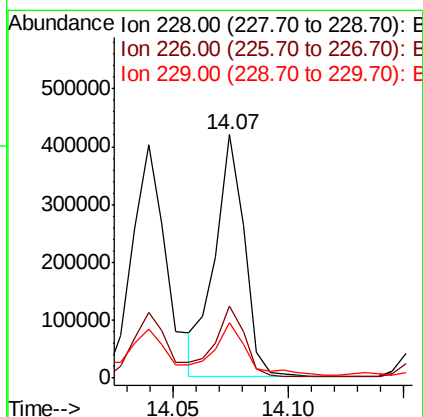
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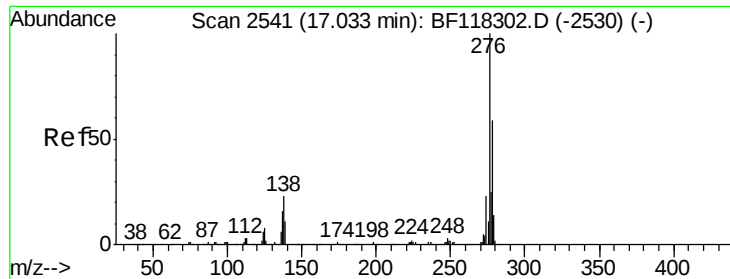
mohammad
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#83
Chrysene
Concen: 15.131 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.00 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.9	35.9
229	22.8	16.1	24.1





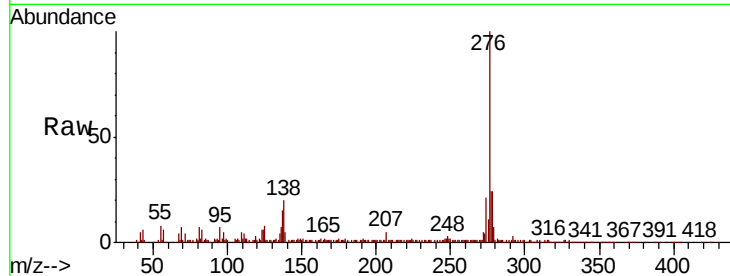
#86
Indeno(1,2,3-cd)pyrene
Concen: 12.882 ng
RT: 17.06 min Scan# 2545
Delta R.T. 0.02 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	19.5	29.3
277	23.9	20.6	30.8

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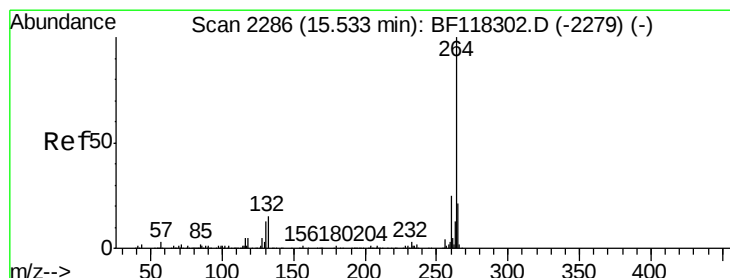
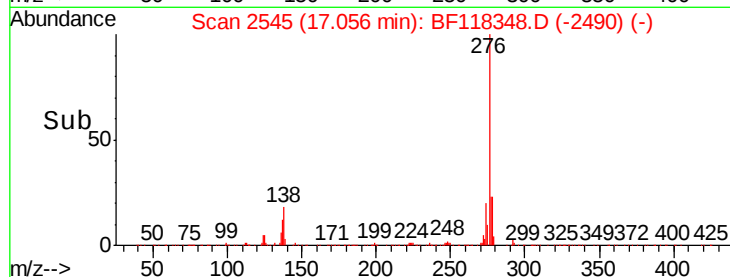
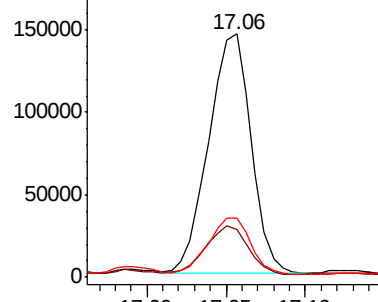


Abundance

Ion 276.00 (275.70 to 276.70): E

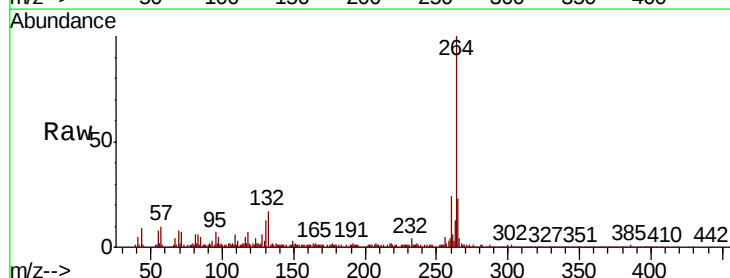
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2288
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.8	29.6
265	22.9	17.0	25.4

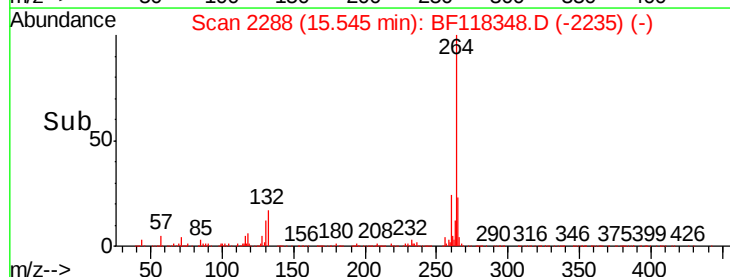
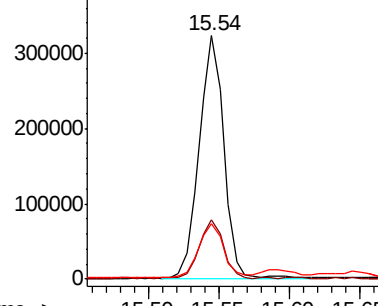


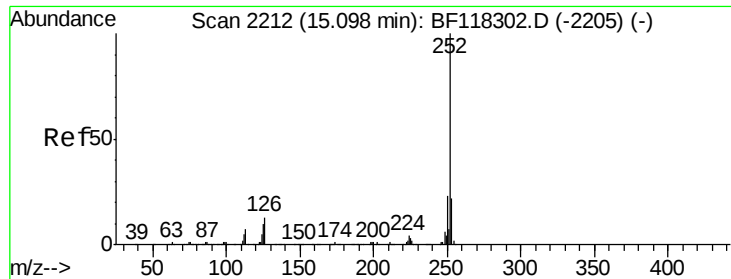
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





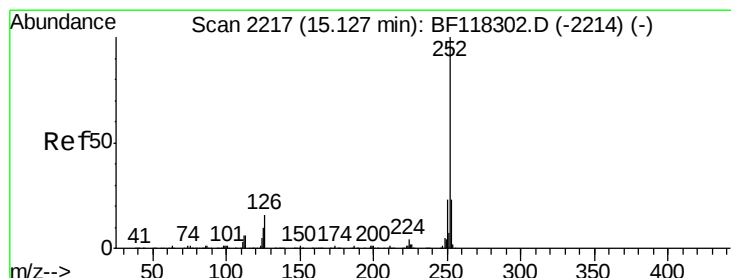
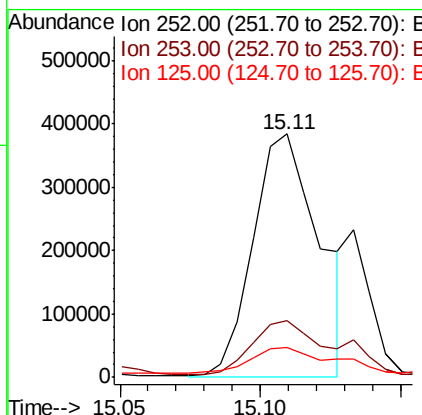
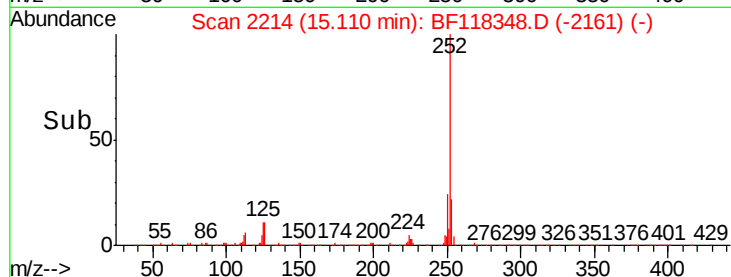
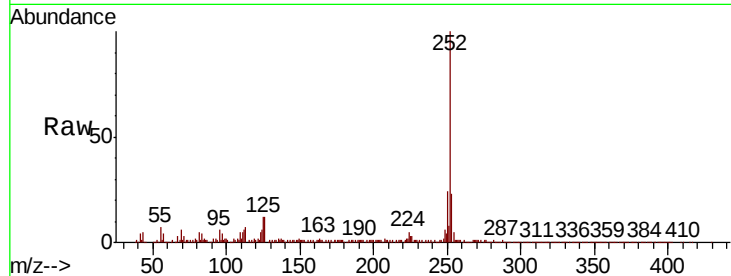
#88
Benzo(b)fluoranthene
Concen: 24.315 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampleId :
PH-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	12.3	7.7	11.5

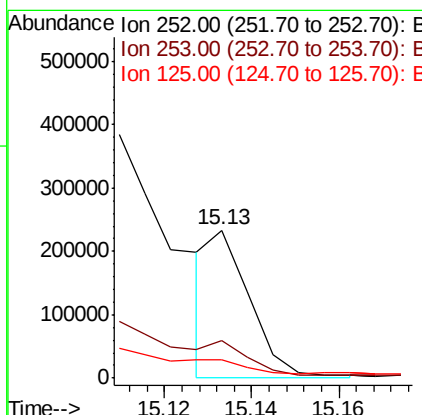
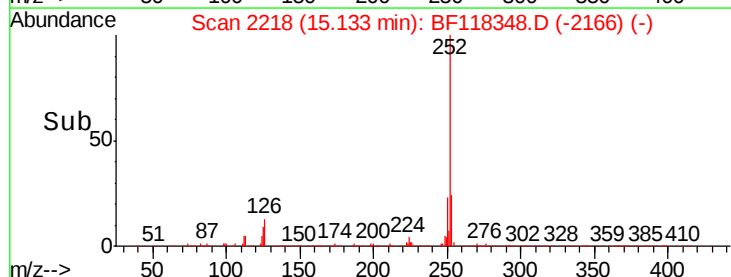
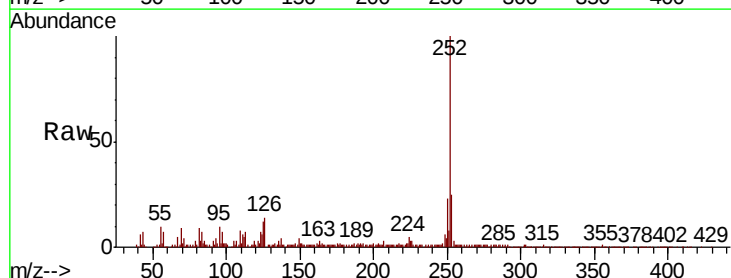
Manual Integrations
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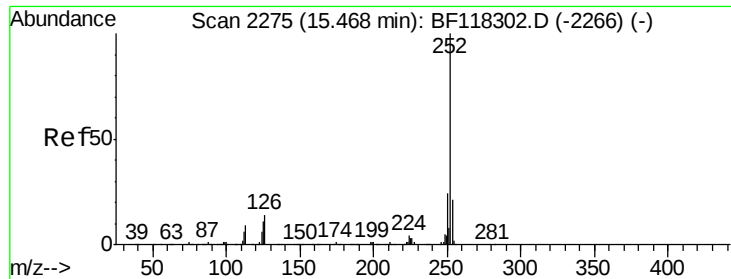
mohammad
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#89
Benzo(k)fluoranthene
Concen: 6.059 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.0	27.0
125	12.2	8.0	12.0





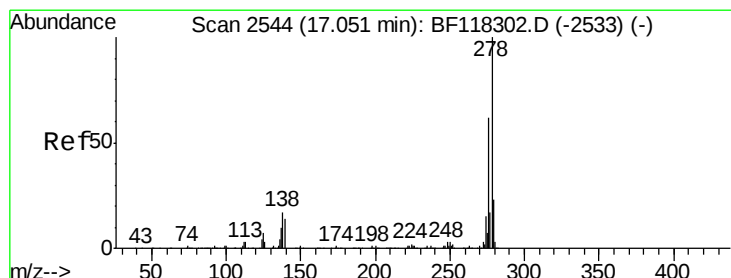
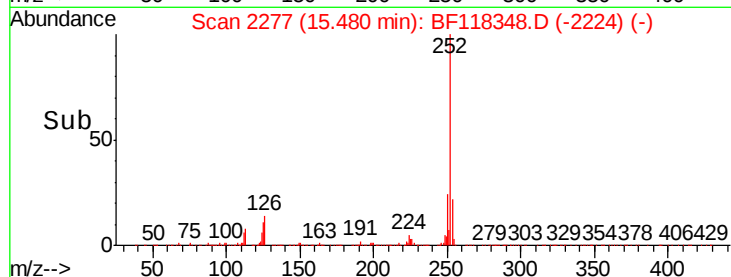
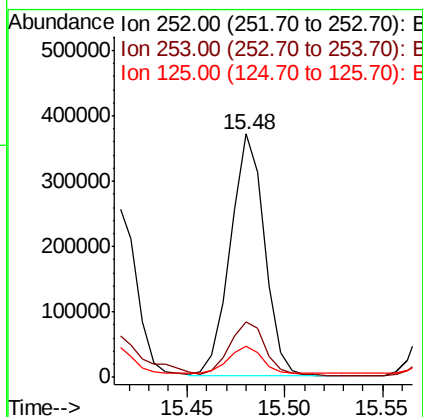
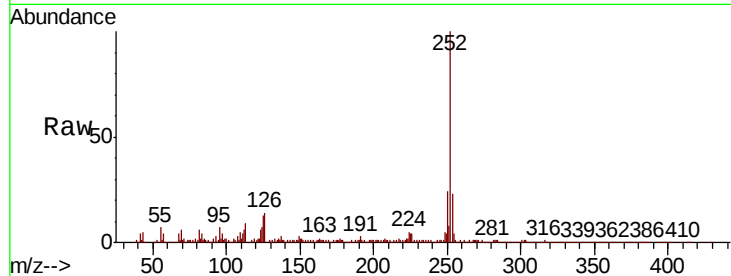
#90
Benzo(a)pyrene
Concen: 19.809 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Instrument :
BNA_F
ClientSampled :
PH-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.6	9.0	13.4

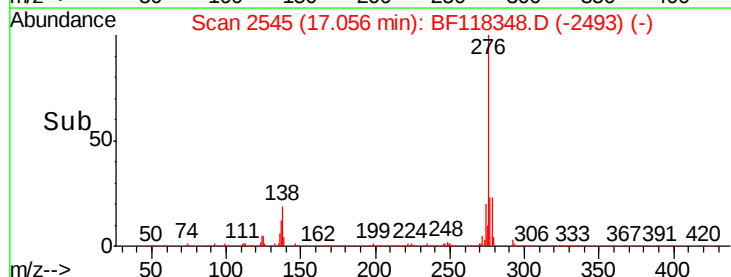
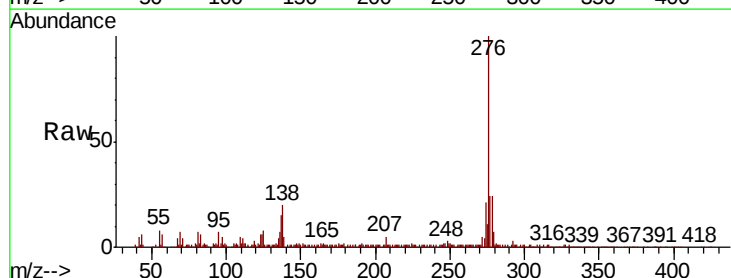
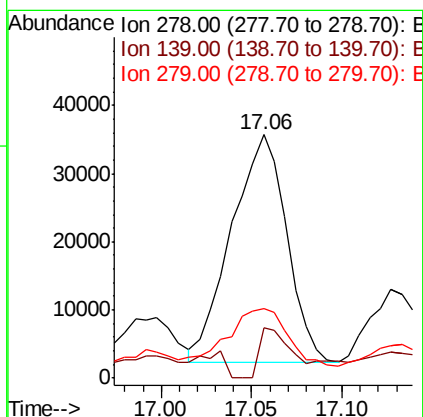
Manual Integrations
APPROVED

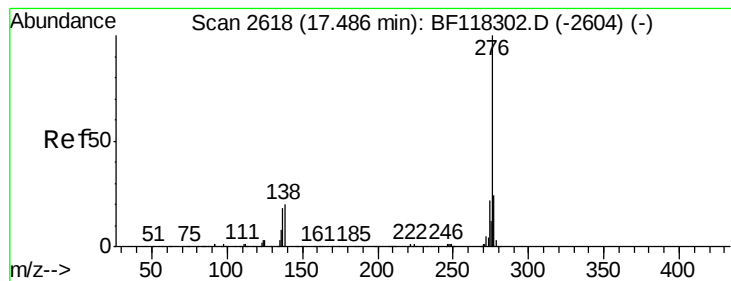
mohammad
12/29/2019 5:28:07 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.562 ng
RT: 17.06 min Scan# 2545
Delta R.T. 0.01 min
Lab File: BF118348.D
Acq: 27 Dec 2019 20:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.6	11.5	17.3#
279	28.8	18.3	27.5#





#92

Benzo(a,h,i)perylene

Concen: 14.083 ng

RT: 17.51 min Scan# 2622

Delta R.T. 0.02 min

Lab File: BF118348.D

Acq: 27 Dec 2019 20:05

Instrument :

BNA_F

ClientSampleId :

PH-2

Tot Ion:	276	Resp:	268149
Ion Ratio	Lower	Upper	
276	100		
277	24.5	19.1	28.7
138	19.7	16.1	24.1

Manual Integrations
APPROVED

mohammad
12/29/2019 5:28:07 PM

