

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
 Data File : BF118312.D
 Acq On : 26 Dec 2019 13:13
 Operator : JU
 Sample : K6414-08
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Manual Integrations
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Quant Time: Dec 27 04:26:27 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	116967	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	481295	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	260040	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	500988	20.00	ng	0.00
76) Chrysene-d12	14.04	240	318175	20.00	ng	0.00
87) Perylene-d12	15.53	264	358218	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	701948	102.44	ng	0.00
7) Phenol-d6	6.48	99	879514	103.47	ng	0.00
23) Nitrobenzene-d5	7.41	82	520111	61.81	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	314035	97.79	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	1048927	61.57	ng	0.00
79) Terphenyl-d14	12.98	244	1246742	65.01	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.49	94	30618	3.205	ng	95
31) Naphthalene	8.16	128	266456	10.892	ng	98
37) 2-Methylnaphthalene	8.85	142	106398	6.353	ng	98
38) 1-Methylnaphthalene	8.95	142	94936	6.016	ng	99
50) Dimethylphthalate	9.61	163	89067	4.563	ng	100
52) Acenaphthene	9.93	154	170666	11.413	ng	98
55) Dibenzofuran	10.10	168	245898	11.129	ng	99
58) Fluorene	10.45	166	236134	13.238	ng	98
71) Phenanthrene	11.42	178	2472129	90.517	ng	98
72) Anthracene	11.47	178	683363	24.998	ng	98
73) Carbazole	11.62	167	263185	10.850	ng	99
75) Fluoranthene	12.62	202	1938142	70.317	ng	97
78) Pvrene	12.84	202	1423713	54.795	ng	99
81) Benzo(a)anthracene	14.03	228	664117	29.819	ng	99
83) Chrysene	14.07	228	524297	24.586	ng	98
86) Indeno(1,2,3-cd)pyrene	17.03	276	254063	13.982	ng	95
88) Benzo(b)fluoranthene	15.10	252	591224m	24.864	ng	
89) Benzo(k)fluoranthene	15.12	252	225756m	9.888	ng	
90) Benzo(a)pvrene	15.47	252	392148	18.721	ng	95
91) Dibenzo(a,h)anthracene	17.03	278	76654m	4.217	ng	
92) Benzo(g,h,i)perylene	17.48	276	216599	12.335	ng	100

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

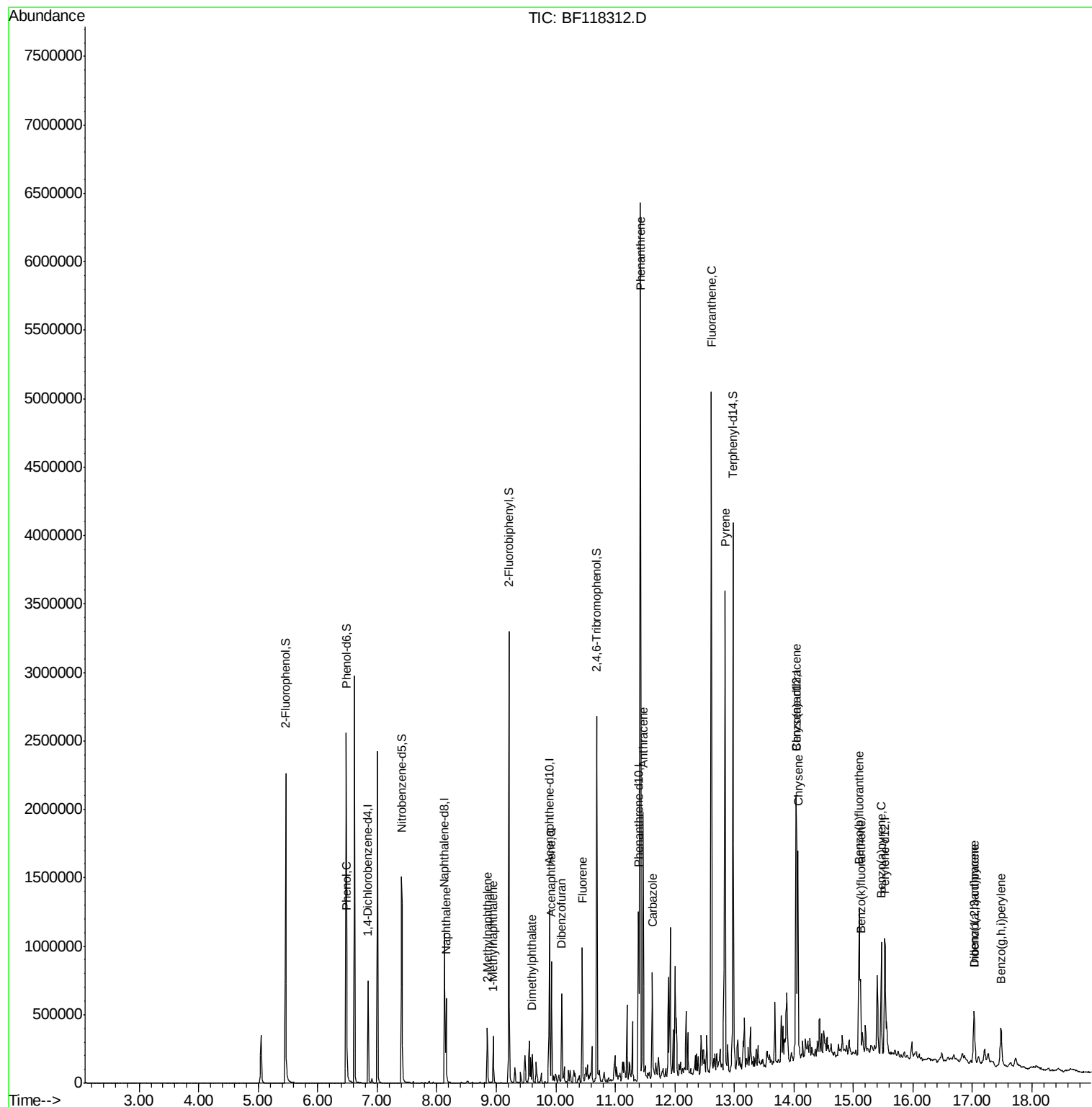
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
Acq On : 26 Dec 2019 13:13
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Misc :
ALS Vial : 5 Sample Multiplier: 1

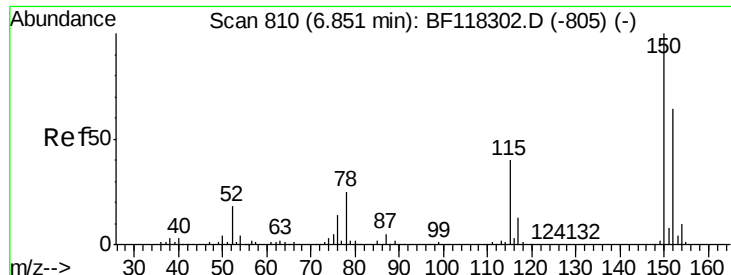
Instrument :
BNA_F
ClientSampleID :
K183-WC-02

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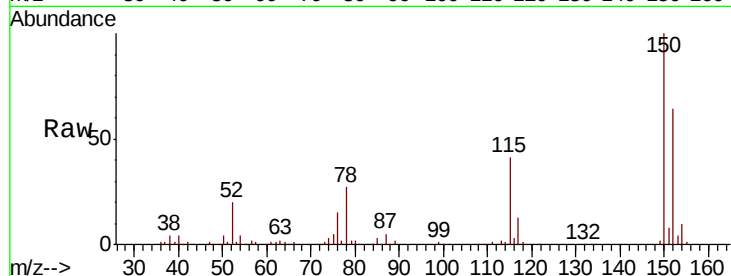
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.4	188.2
115	64.2	50.2	75.4

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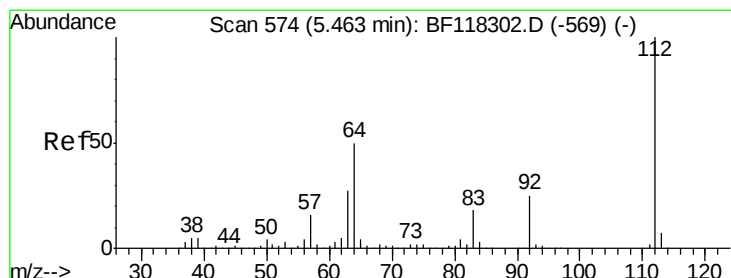
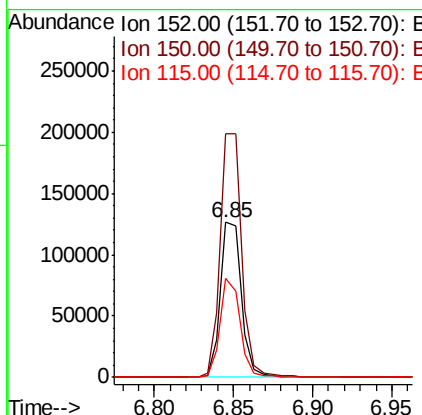
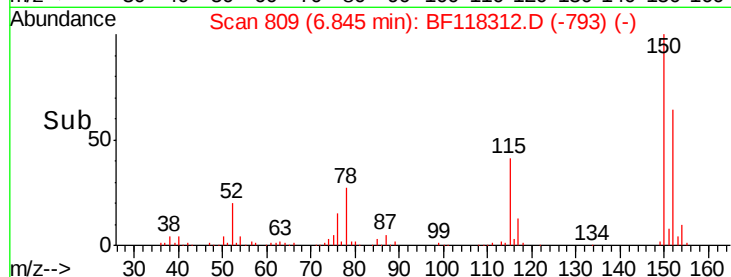


Abundance

Ion 152.00 (151.70 to 152.70): E

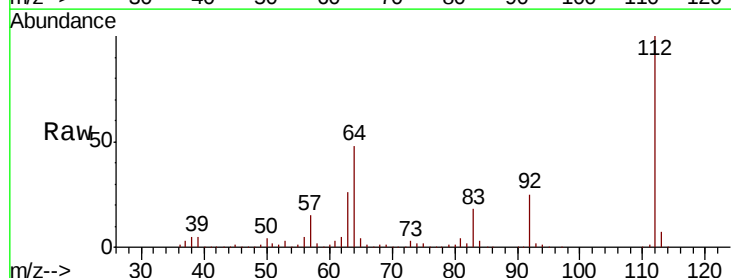
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 102.441 ng
 RT: 5.46 min Scan# 574
 Delta R.T. -0.00 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.0	39.7	59.5
63	26.0	21.7	32.5

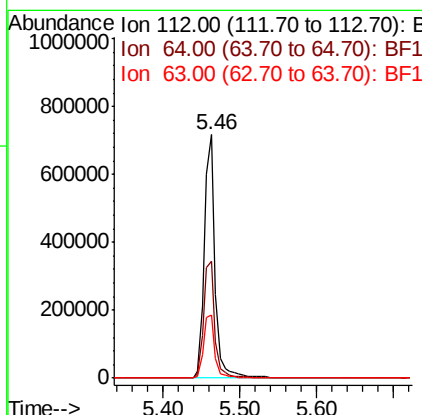
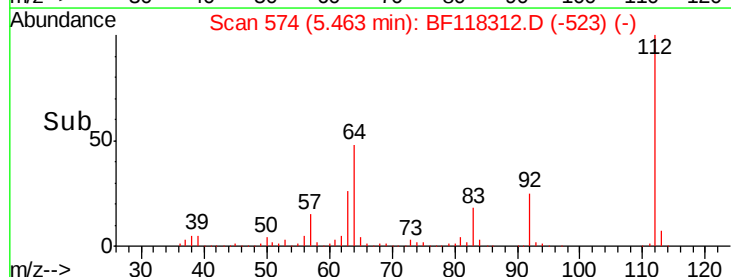


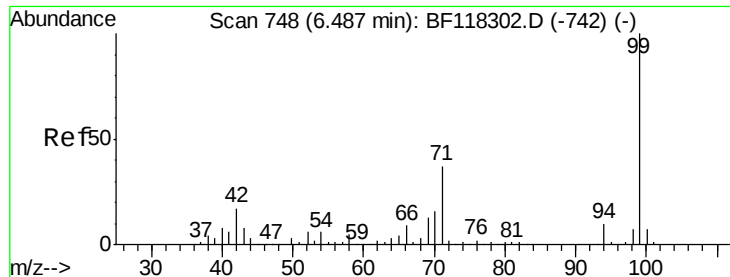
Abundance

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: 103.468 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA_F

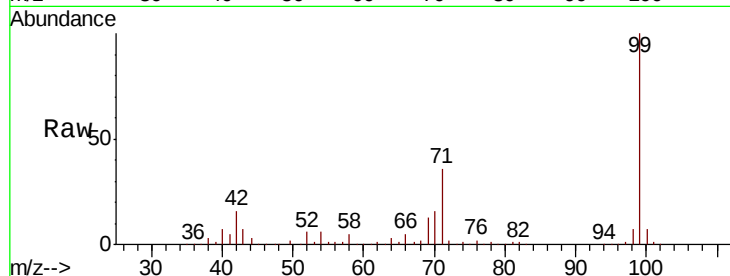
ClientSampleId :

K183-WC-02

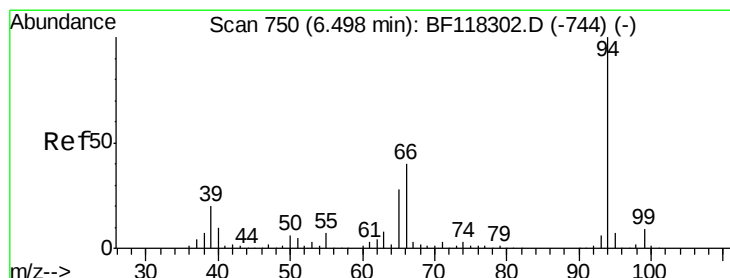
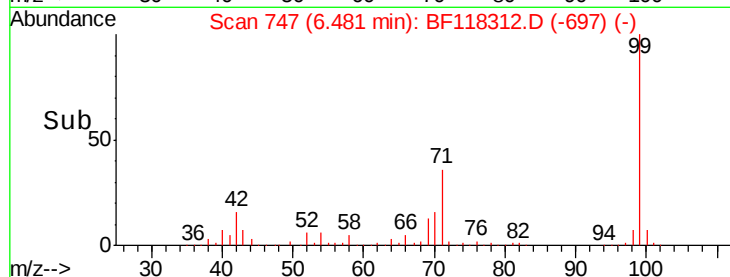
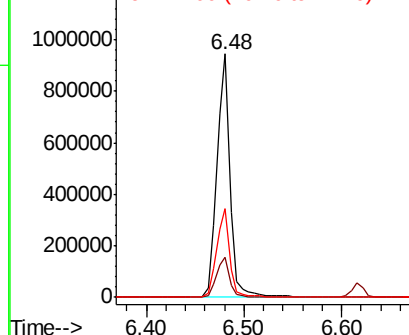
Tot Ion:	99	Resp:	879514
Ion	Ratio	Lower	Upper
99	100		
42	16.3	13.5	20.3
71	36.5	29.4	44.2

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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



#10

Phenol

Concen: 3.205 ng

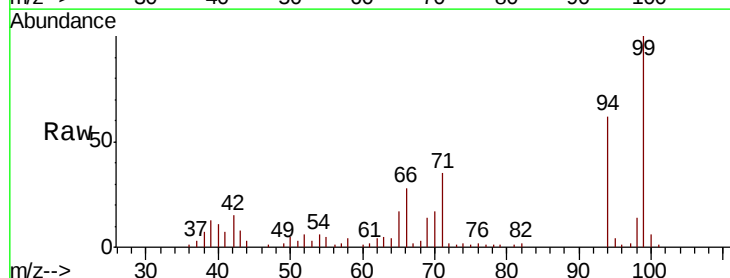
RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

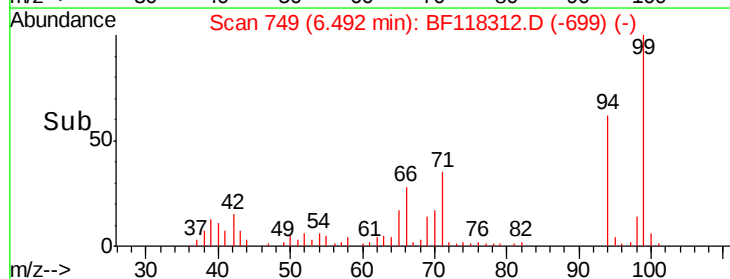
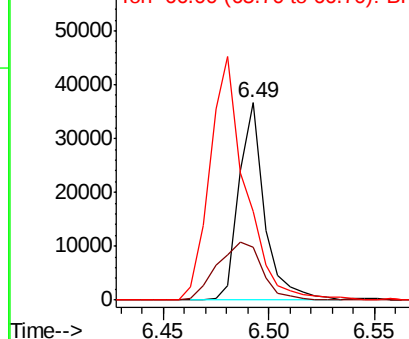
Lab File: BF118312.D

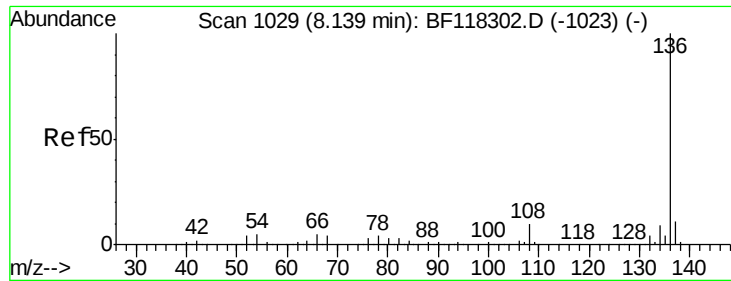
Acq: 26 Dec 2019 13:13

Tgt Ion:	94	Resp:	30618
Ion	Ratio	Lower	Upper
94	100		
65	26.6	7.8	47.8
66	45.0	20.4	60.4



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





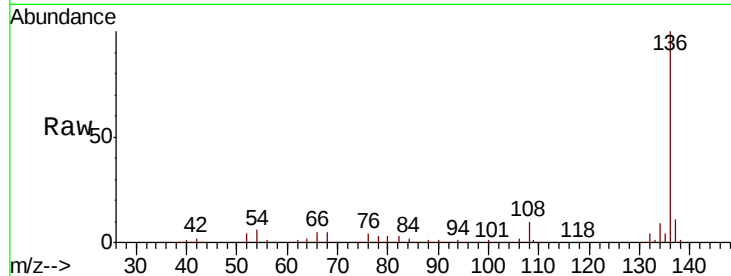
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

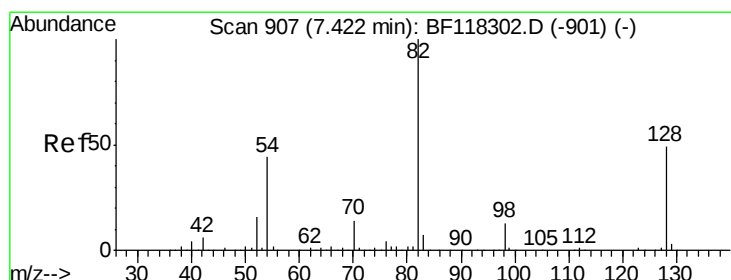
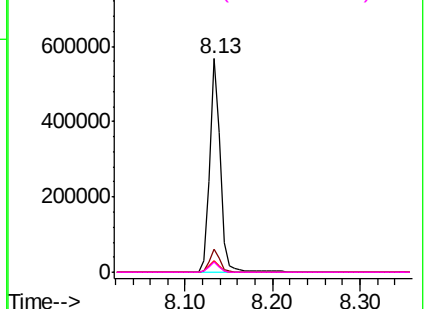
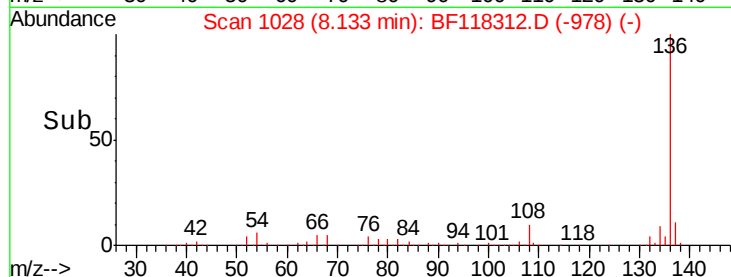
Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		481295		
137	11.0	8.9	13.3		
54	5.6	4.2	6.4		
68	4.7	3.5	5.3		

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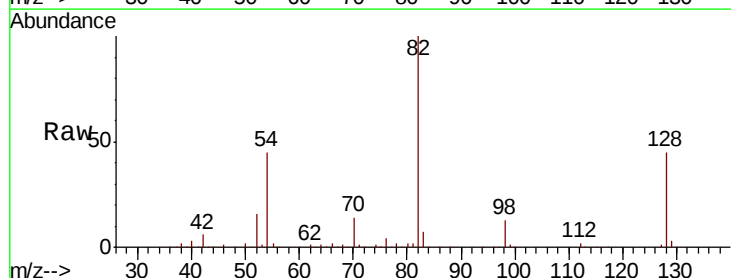


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

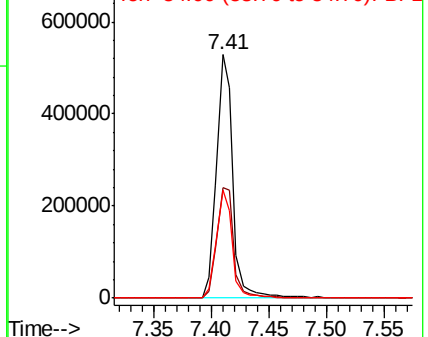
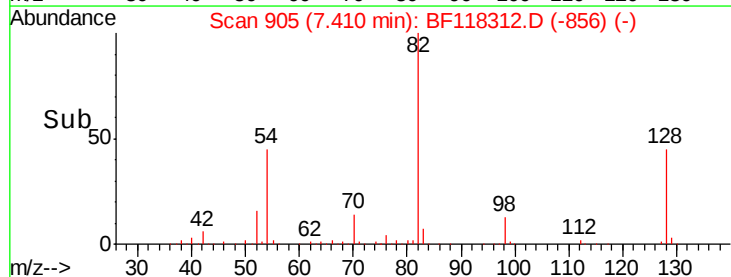


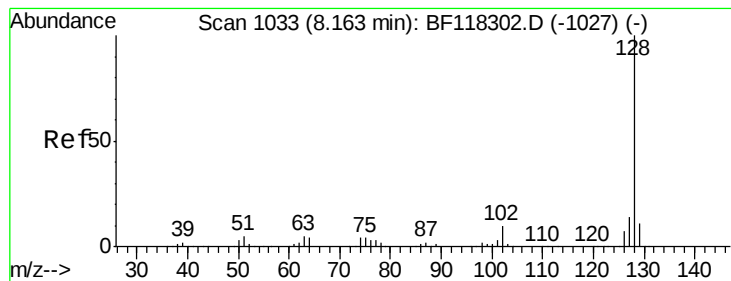
#23
Nitrobenzene-d5
Concen: 61.808 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		520111		
128	45.3	39.6	59.4		
54	44.6	34.9	52.3		



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: 10.892 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA_F

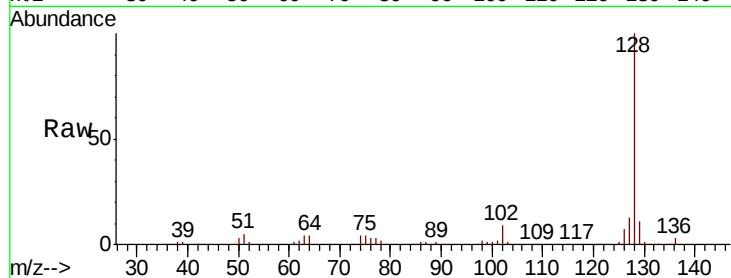
ClientSampleId :

K183-WC-02

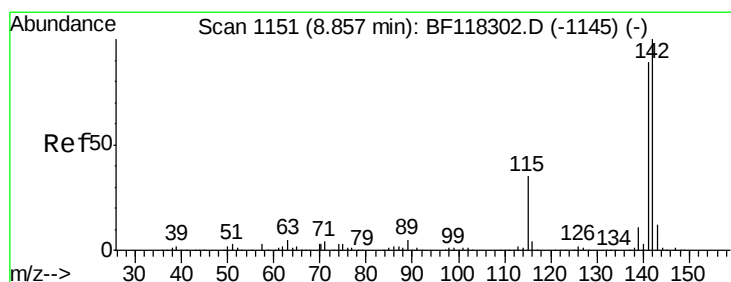
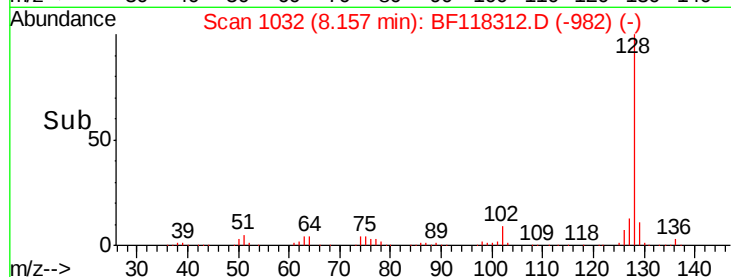
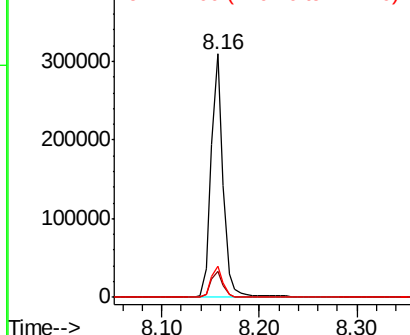
Tot Ion:	128	Resp:	266456
Ion Ratio		Lower	Upper
128	100		
129	10.7	9.0	13.4
127	12.9	11.0	16.4

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



#37

2-Methylnaphthalene

Concen: 6.353 ng

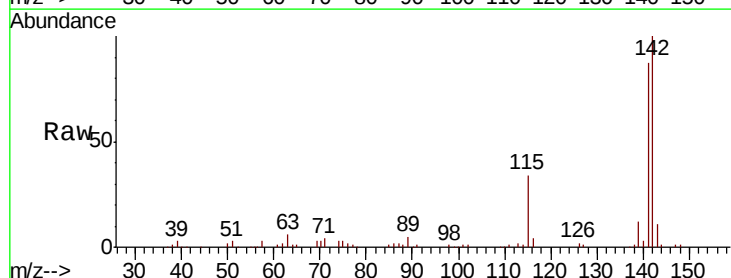
RT: 8.85 min Scan# 1150

Delta R.T. -0.01 min

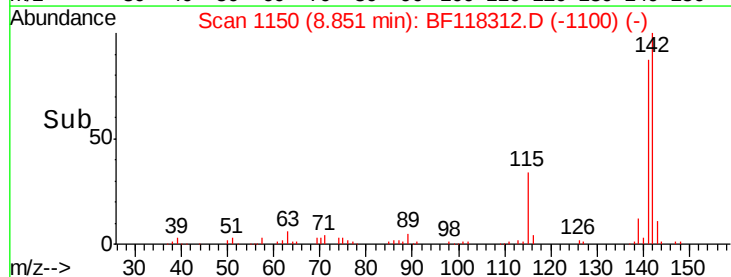
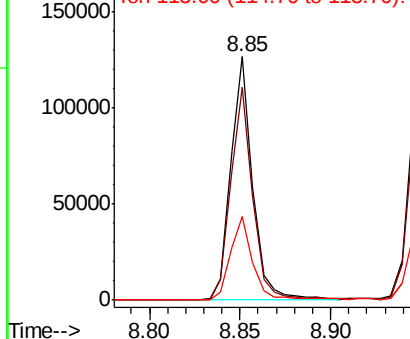
Lab File: BF118312.D

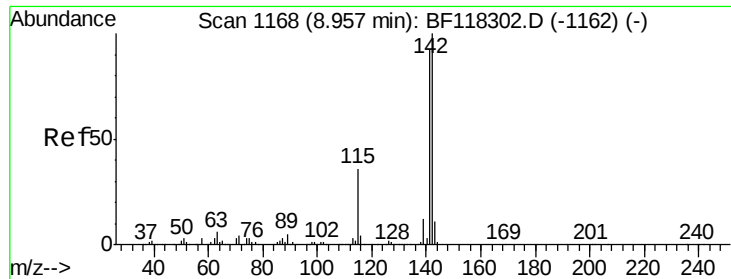
Acq: 26 Dec 2019 13:13

Tgt Ion:	142	Resp:	106398
Ion Ratio		Lower	Upper
142	100		
141	87.5	71.2	106.8
115	34.3	28.0	42.0



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





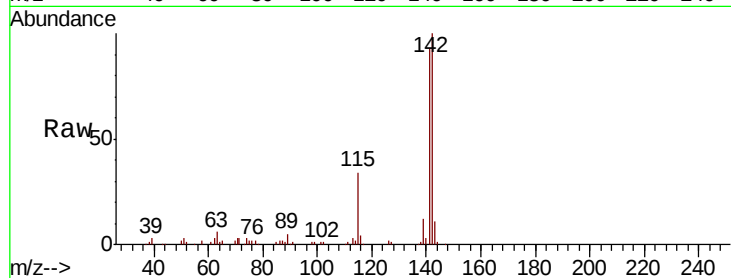
#38
1-Methylnaphthalene
Concen: 6.016 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

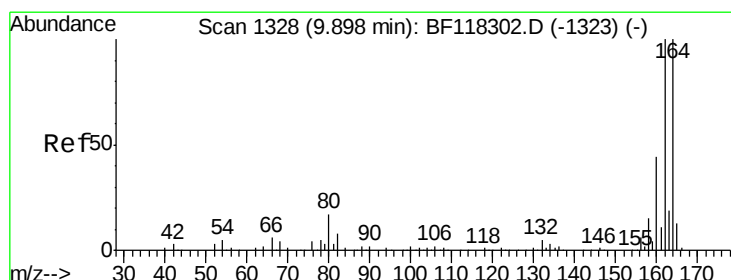
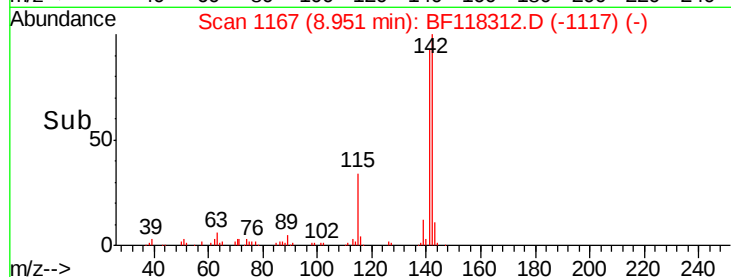
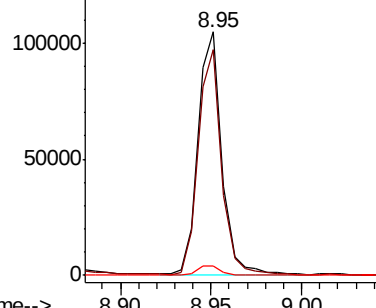
Tot Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.4	110.2
116	3.8	2.9	4.3

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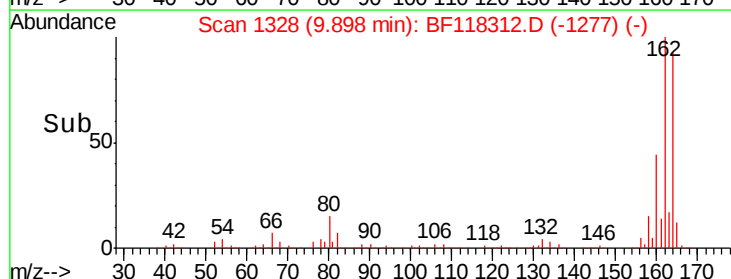
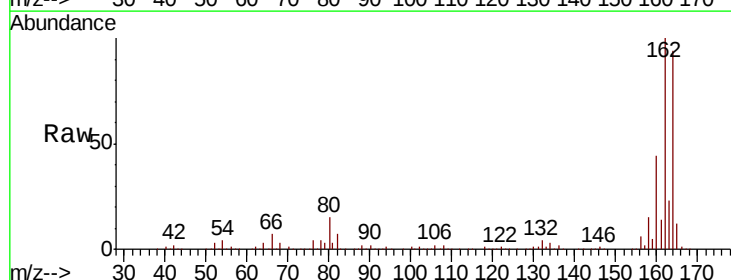
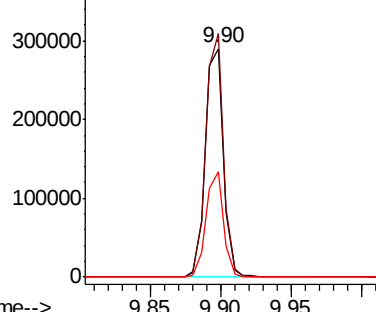
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

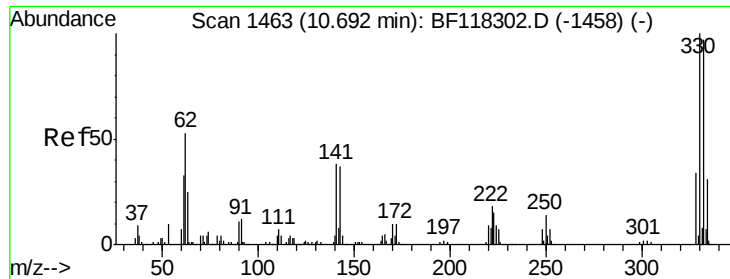


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. 0.00 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.5	80.0	120.0
160	46.4	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





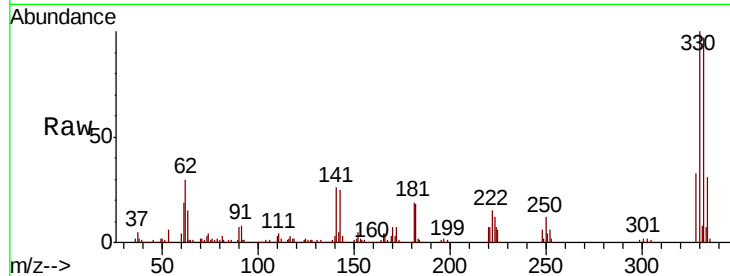
#42
 2,4,6-Tribromophenol
 Concen: 97.790 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. 0.00 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	114.8
141	34.4	26.0	39.0

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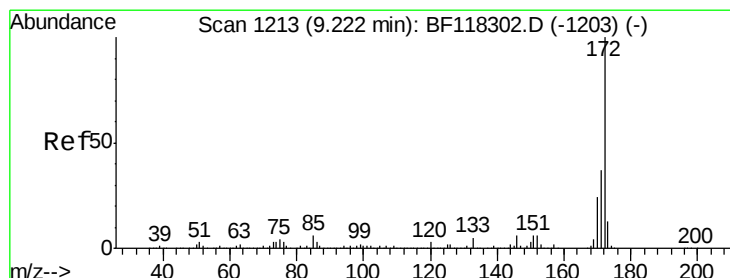
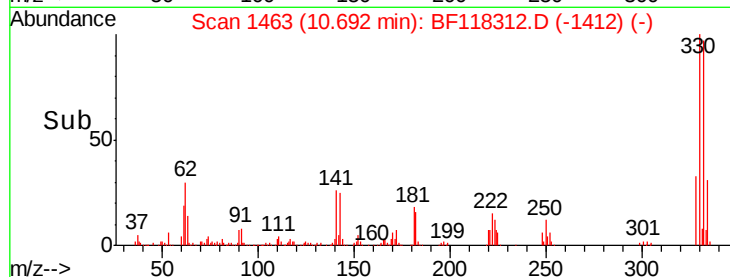
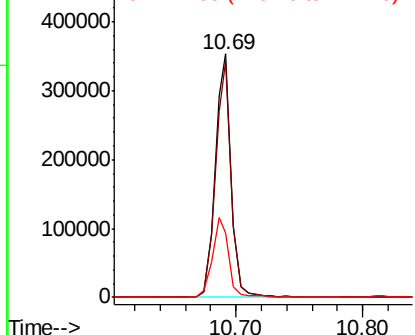


Abundance

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: 61.573 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

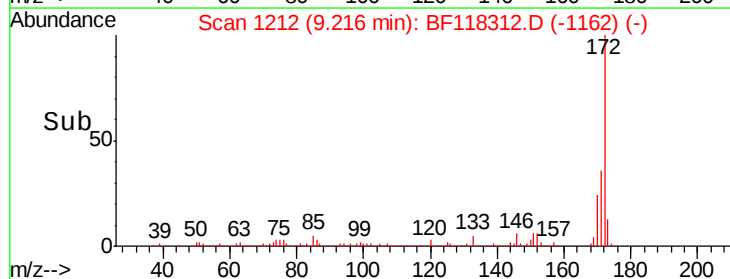
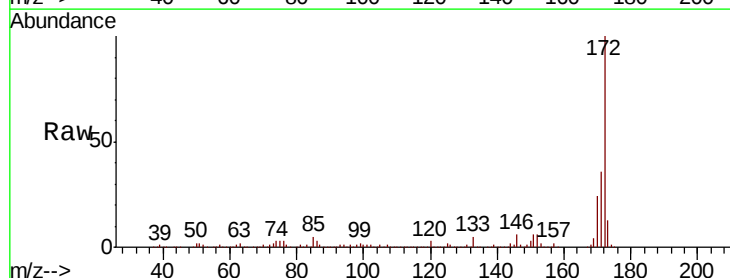
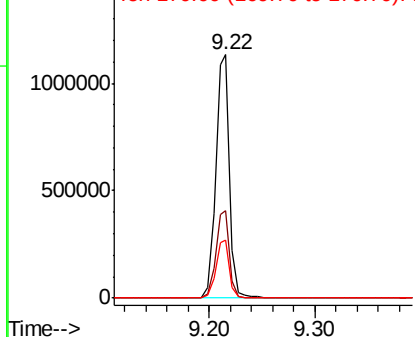
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.3	43.9
170	23.6	19.2	28.8

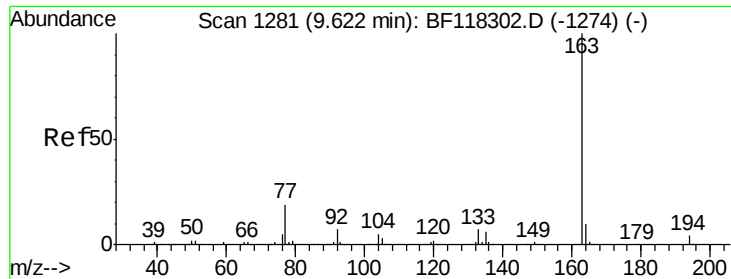
Abundance

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





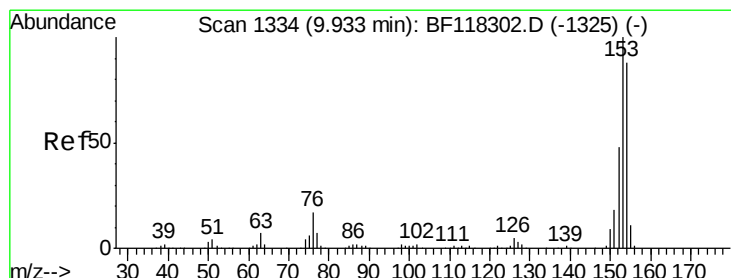
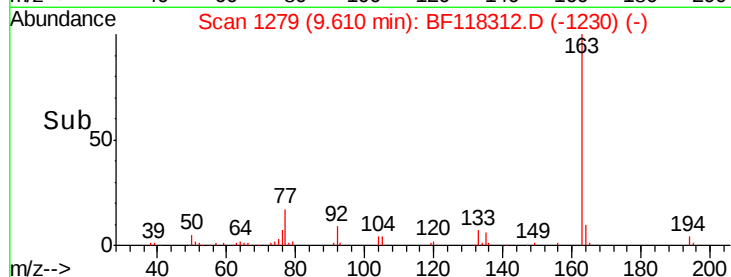
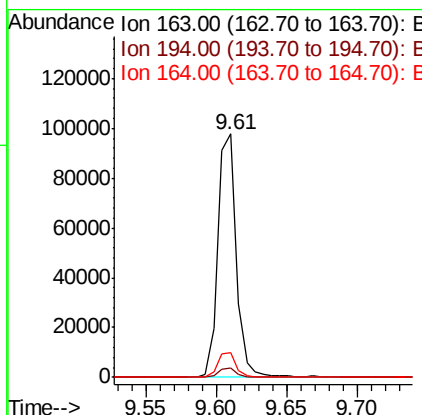
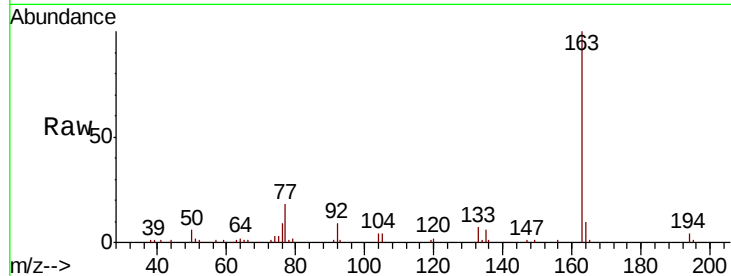
#50
Dimethylphthalate
Concen: 4.563 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.2	4.8
164	9.9	7.9	11.9

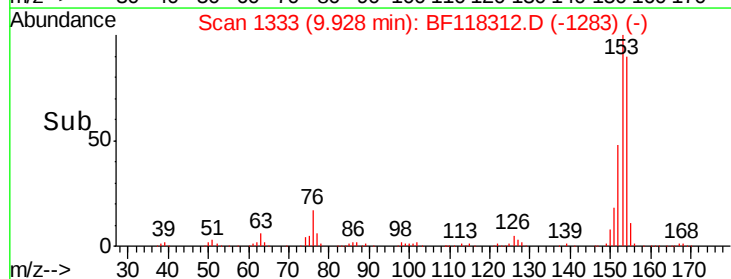
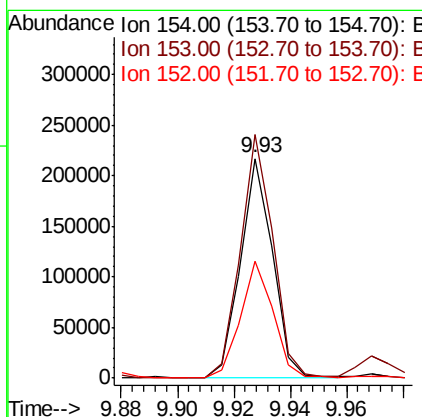
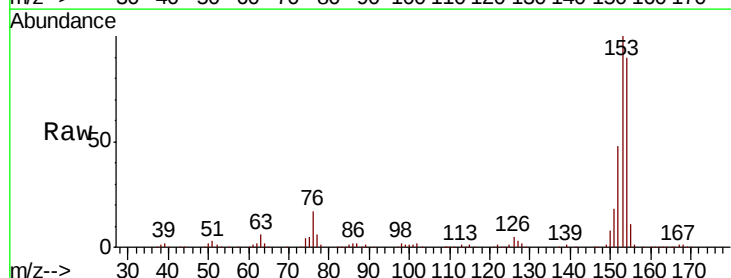
Manual Integrations
APPROVED

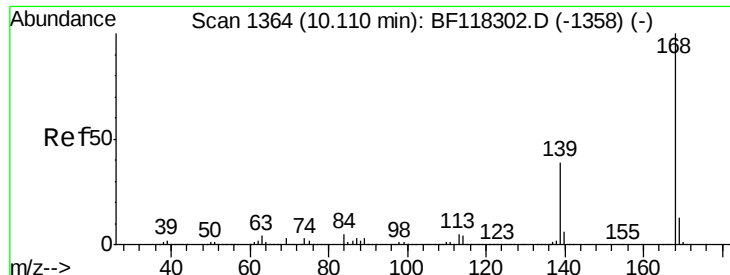
mohammad
12/27/2019 3:19:00 PM



#52
Acenaphthene
Concen: 11.413 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.7	90.6	136.0
152	53.2	43.1	64.7





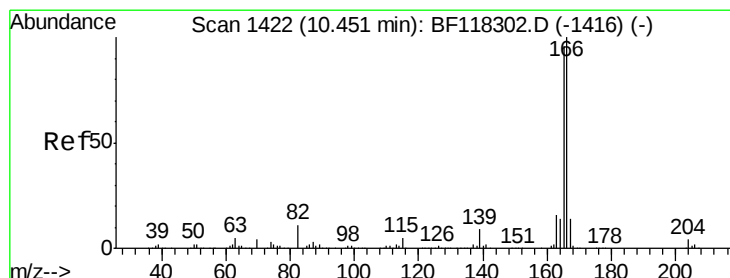
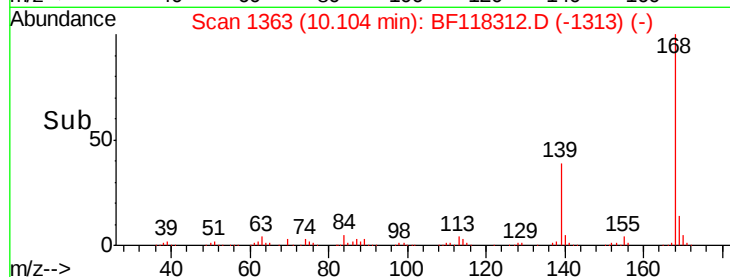
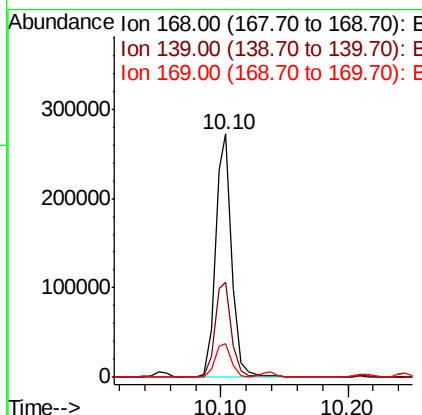
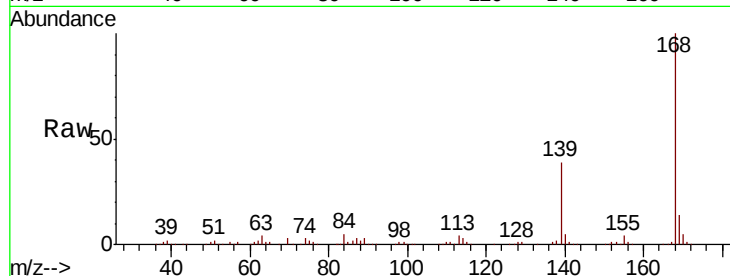
#55
Dibenzenofuran
Concen: 11.129 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.2	31.5	47.3
169	13.8	10.4	15.6

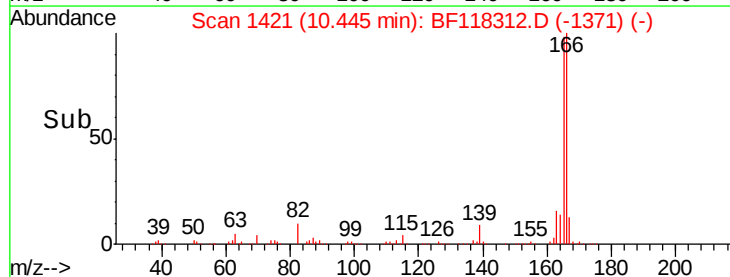
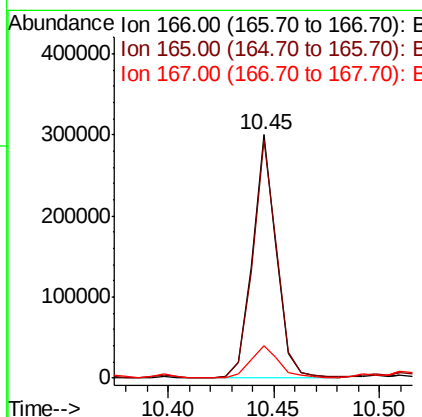
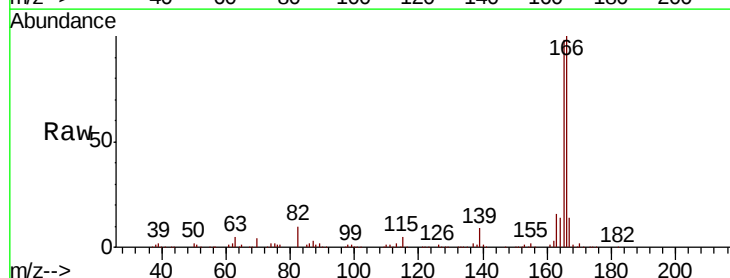
Manual Integrations
APPROVED

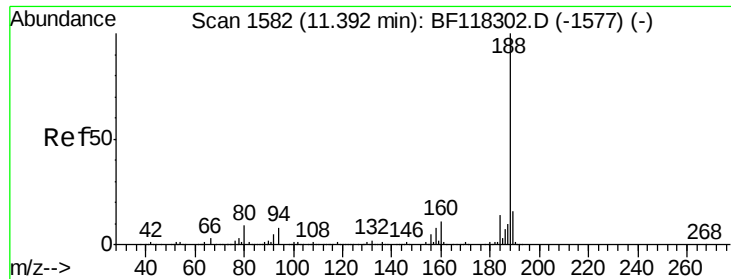
mohammad
12/27/2019 3:19:00 PM



#58
Fluorene
Concen: 13.238 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.0	115.4
167	13.6	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: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA_F

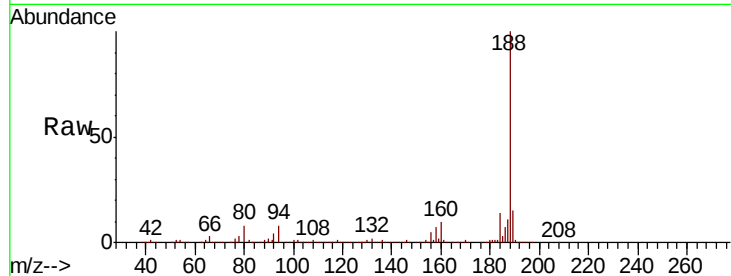
ClientSampleId :

K183-WC-02

Tot Ion:	188	Resp:	500988
Ion Ratio	Lower	Upper	
188	100		
94	7.8	6.7	10.1
80	8.3	7.2	10.8

Manual Integrations
APPROVED

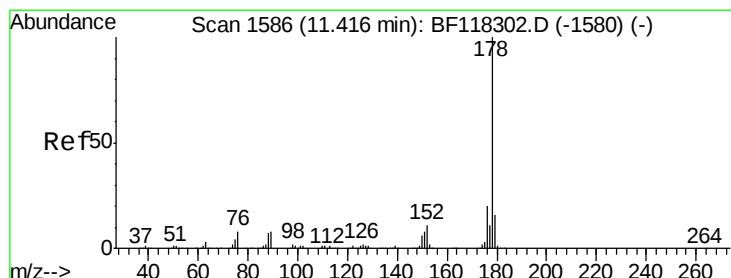
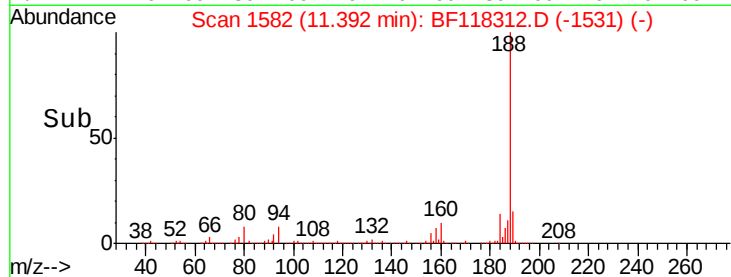
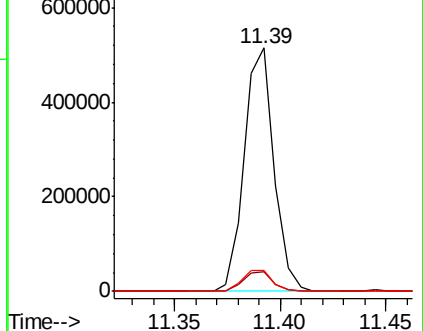
mohammad
12/27/2019 3:19:00 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 90.517 ng

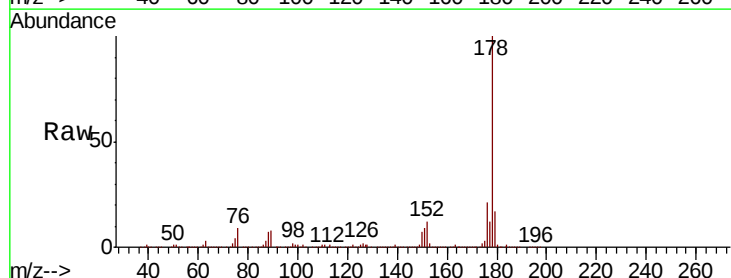
RT: 11.42 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

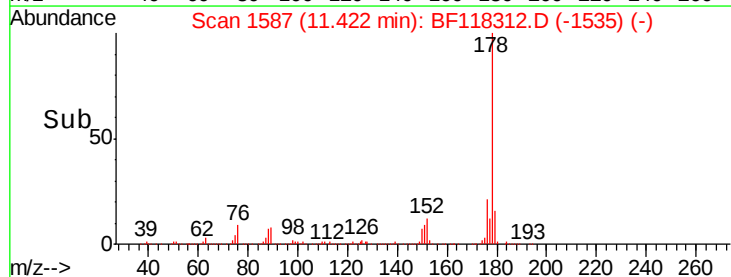
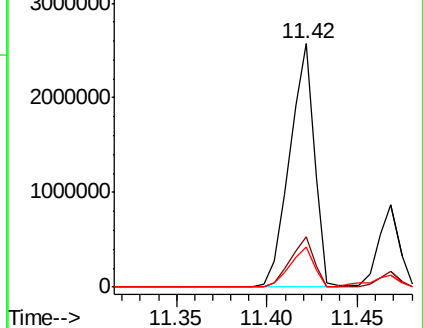
Tgt Ion:	178	Resp:	2472129
Ion Ratio	Lower	Upper	
178	100		
176	20.6	15.6	23.4
179	16.5	12.6	19.0

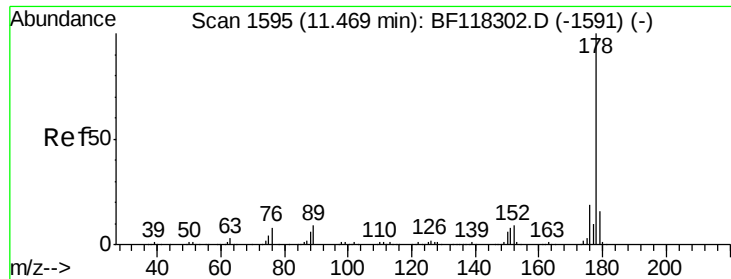


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





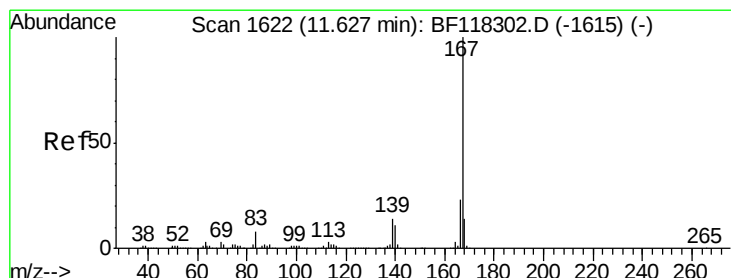
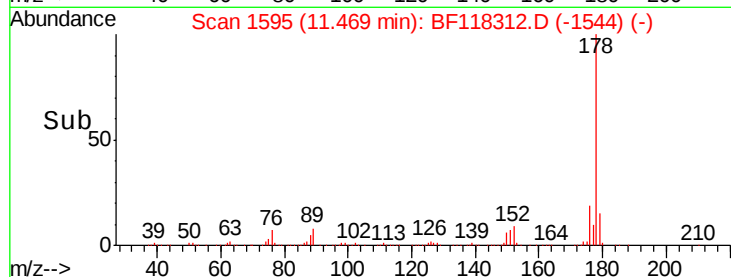
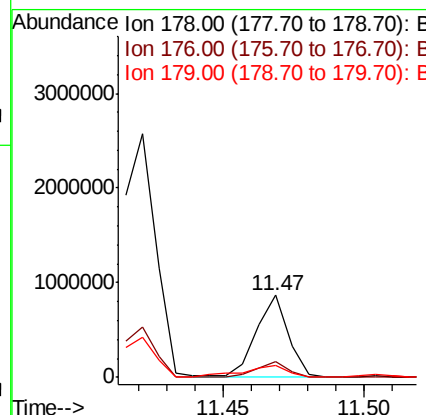
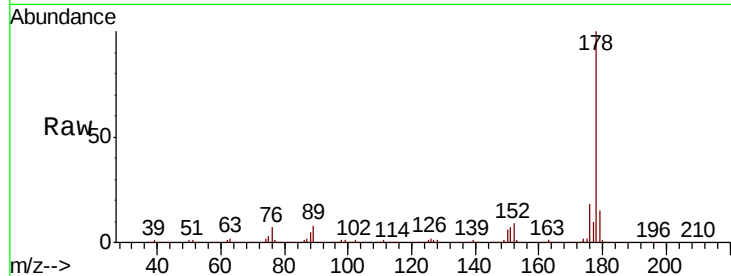
#72
 Anthracene
 Concen: 24.998 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.2	22.8
179	15.1	12.9	19.3

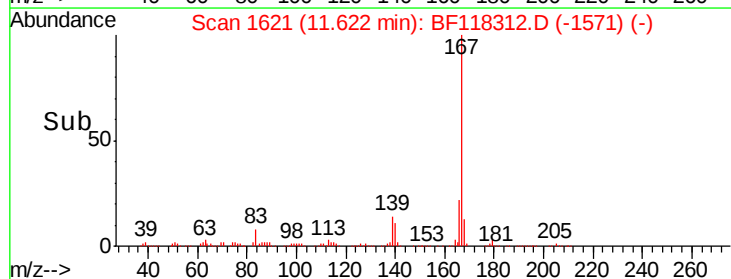
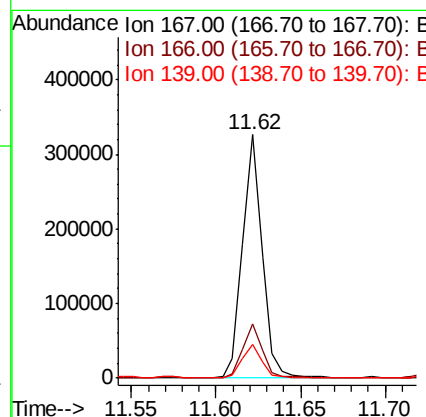
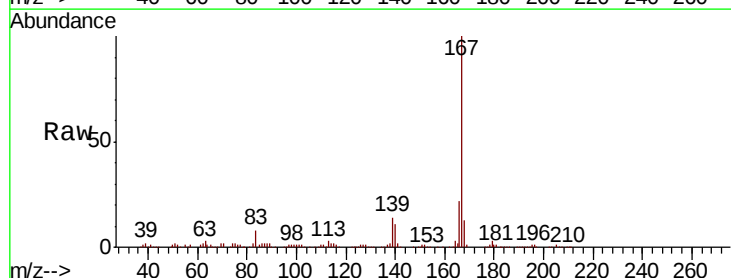
Manual Integrations
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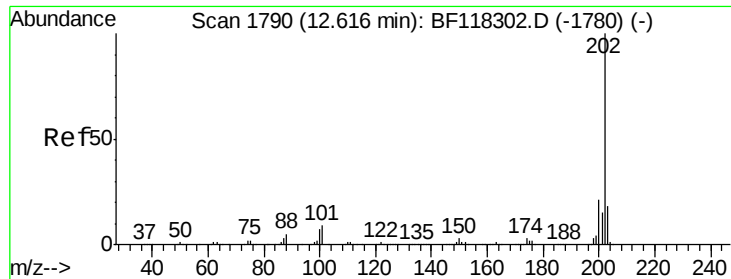
mohammad
 12/27/2019 3:19:00 PM



#73
 Carbazole
 Concen: 10.850 ng
 RT: 11.62 min Scan# 1621
 Delta R.T. -0.01 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.1	27.1
139	13.6	11.5	17.3





#75

Fluoranthene

Concen: 70.317 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA_F

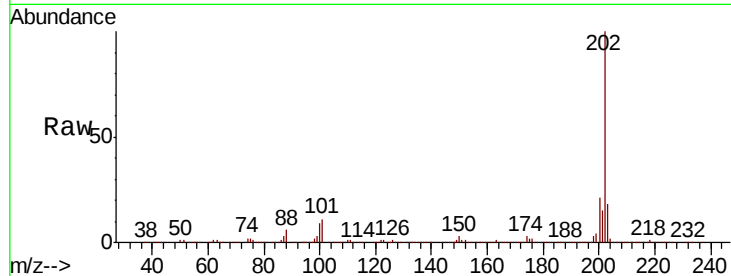
ClientSampleId :

K183-WC-02

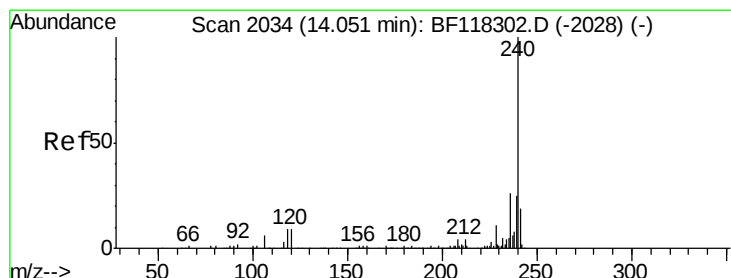
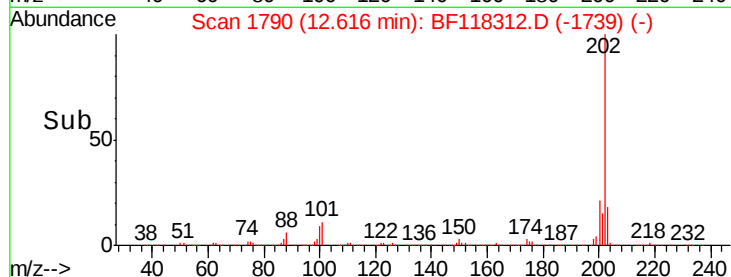
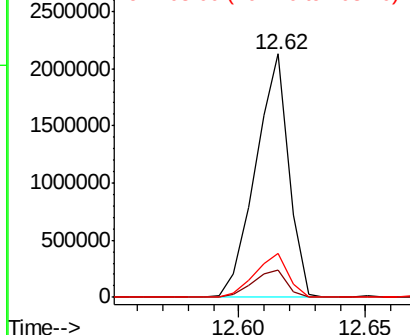
Tot Ion:	202	Resp:	1938142
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	29.5
203	18.0	0.0	37.6

Manual Integrations
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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

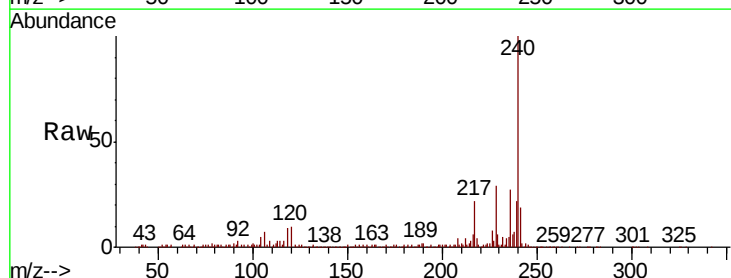
RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

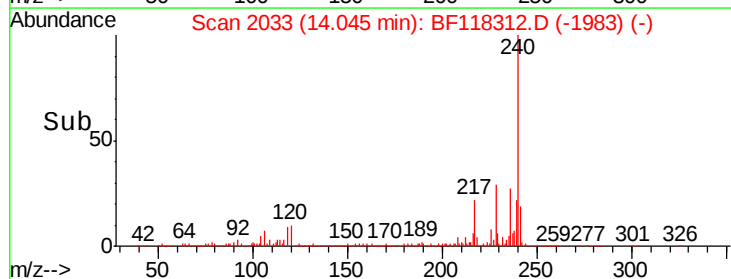
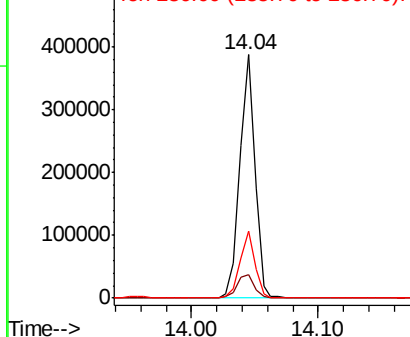
Lab File: BF118312.D

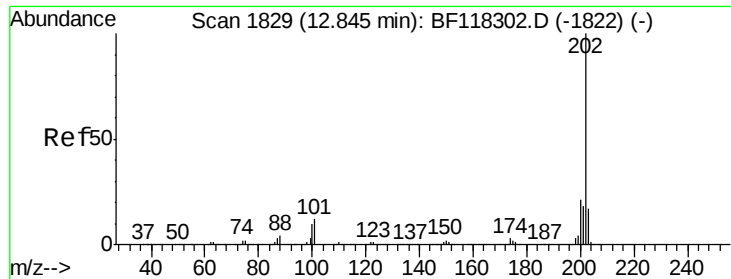
Acq: 26 Dec 2019 13:13

Tgt Ion:	240	Resp:	318175
Ion Ratio	Lower	Upper	
240	100		
120	9.6	7.1	10.7
236	27.4	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





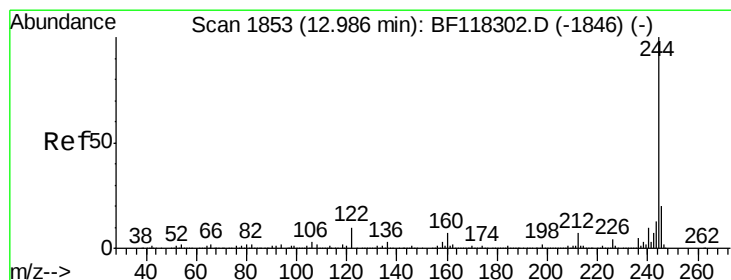
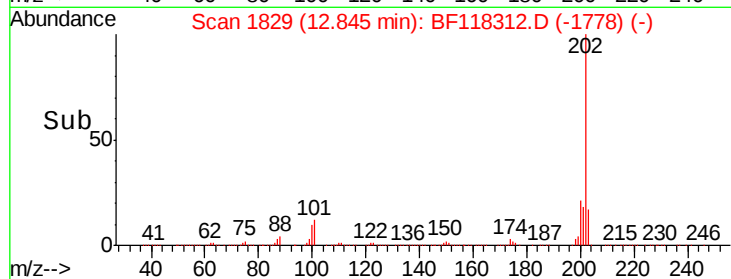
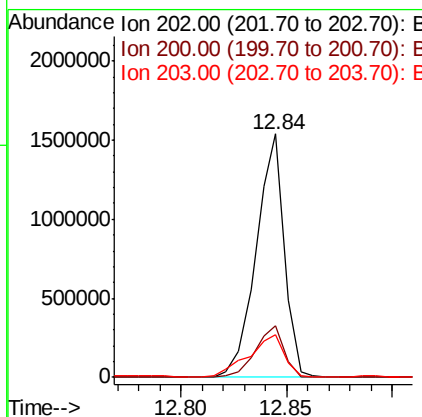
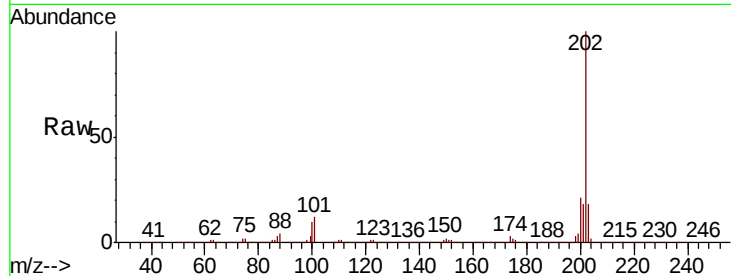
#78
Pvrene
Concen: 54.795 ng
RT: 12.84 min Scan# 1829
Delta R.T. 0.00 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.8	25.2
203	17.8	13.9	20.9

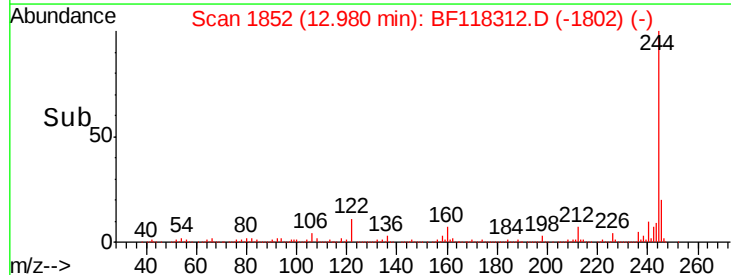
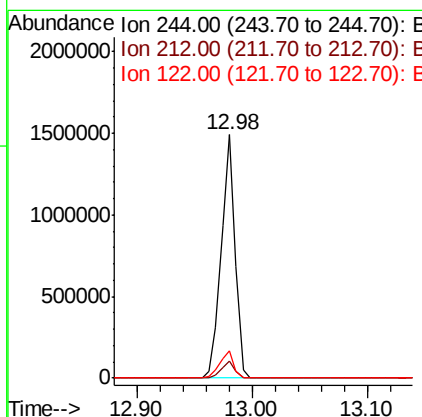
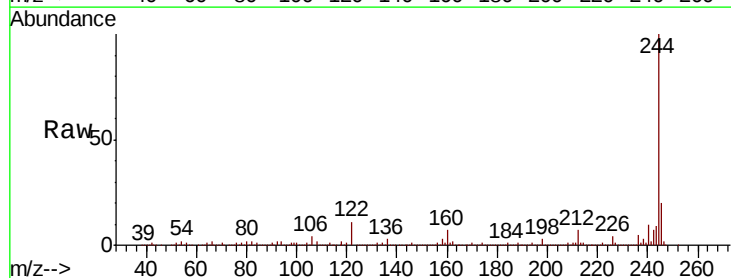
Manual Integrations
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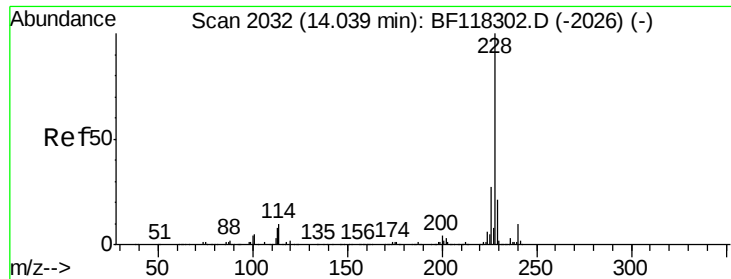
mohammad
12/27/2019 3:19:00 PM



#79
Terphenyl-d14
Concen: 65.008 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	11.1	7.8	11.8





#81

Benzo(a)anthracene

Concen: 29.819 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA_F

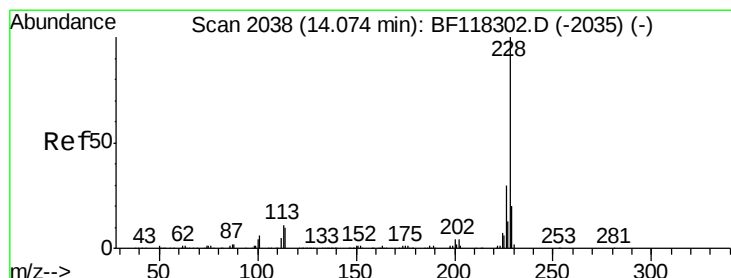
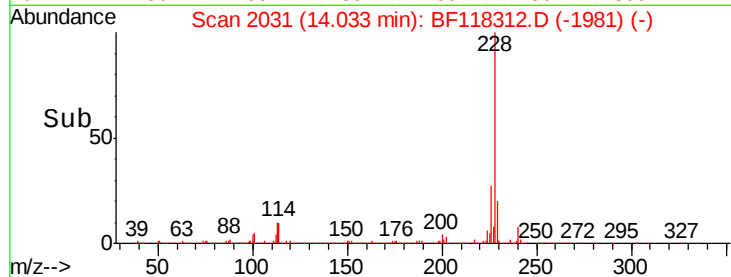
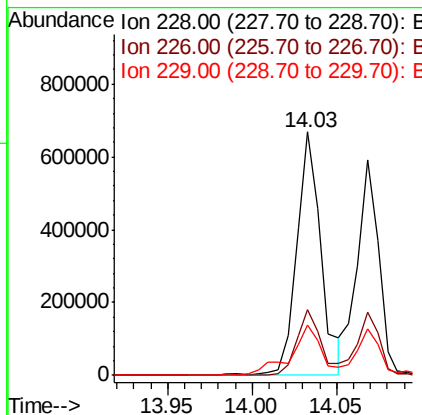
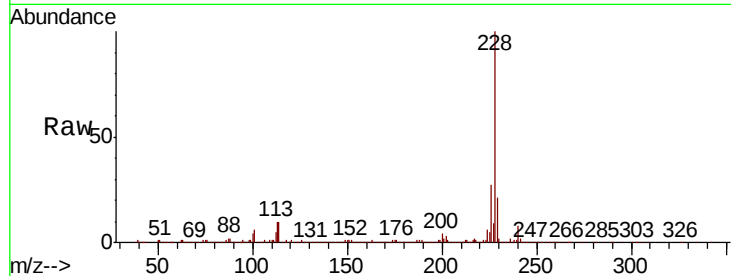
ClientSampleId :

K183-WC-02

Tot Ion:	228	Resp:	664117
Ion Ratio	Lower	Upper	
228	100		
226	27.0	22.0	33.0
229	20.6	16.6	24.8

Manual Integrations
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mohammad
12/27/2019 3:19:00 PM



#83

Chrysene

Concen: 24.586 ng

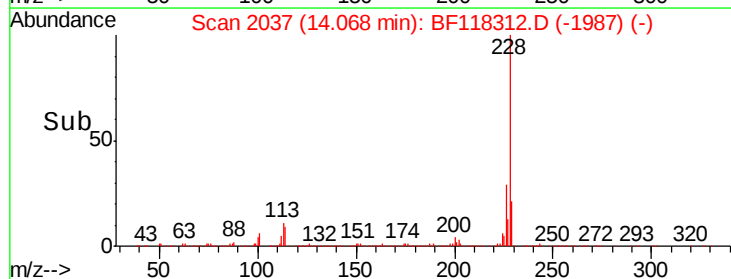
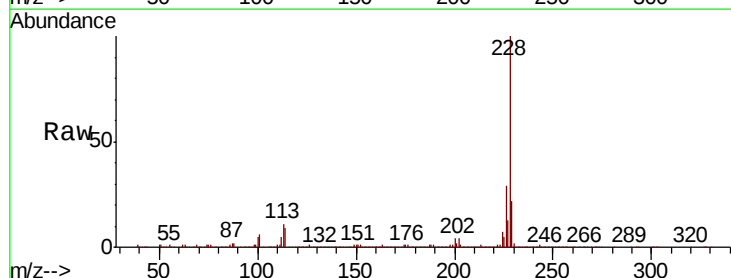
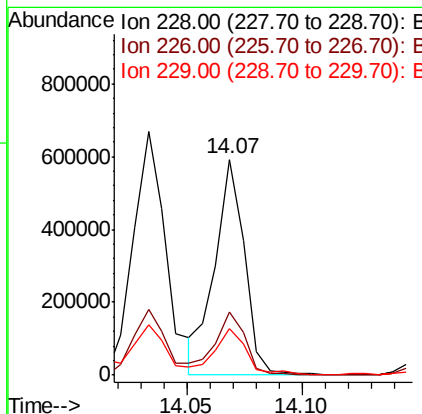
RT: 14.07 min Scan# 2037

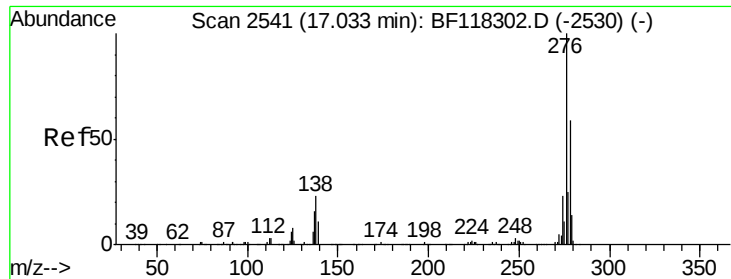
Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Tgt Ion:	228	Resp:	524297
Ion Ratio	Lower	Upper	
228	100		
226	29.1	23.9	35.9
229	21.7	16.1	24.1





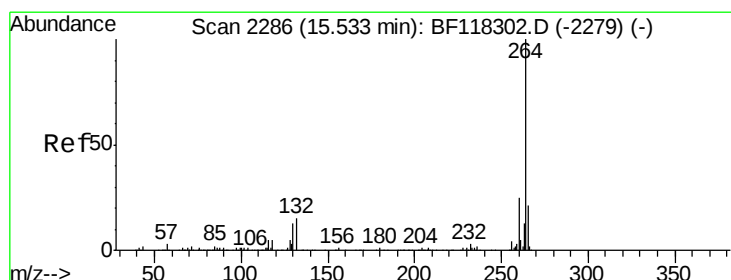
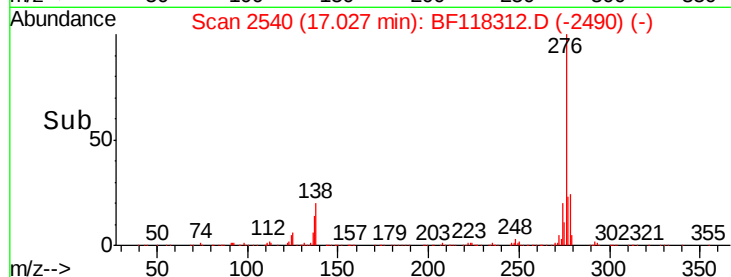
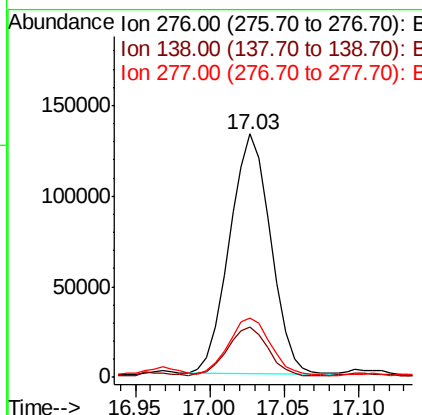
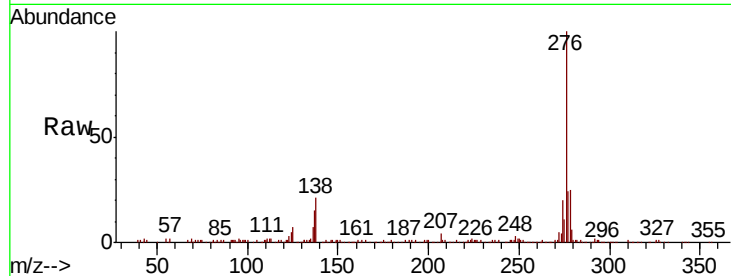
#86
Indeno(1,2,3-cd)pyrene
Concen: 13.982 ng
RT: 17.03 min Scan# 2540
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.5	29.3
277	24.6	20.6	30.8

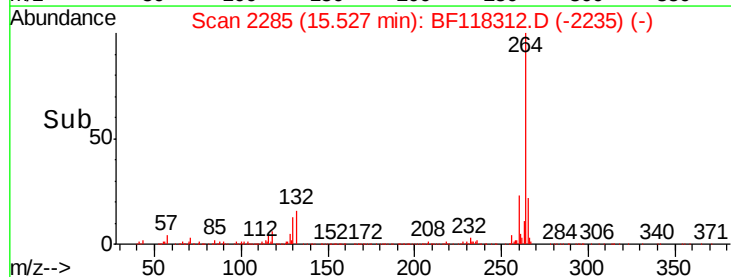
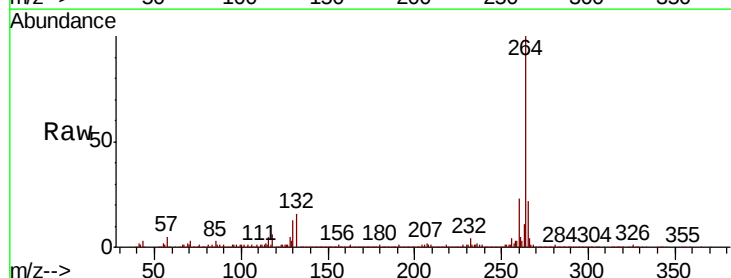
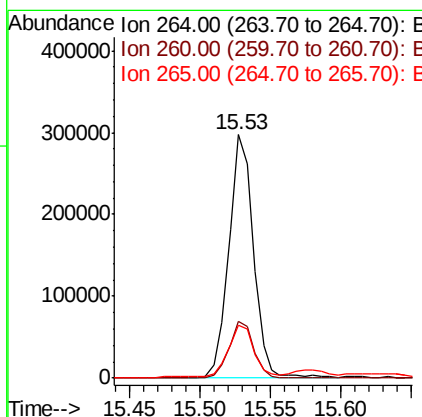
Manual Integrations
APPROVED

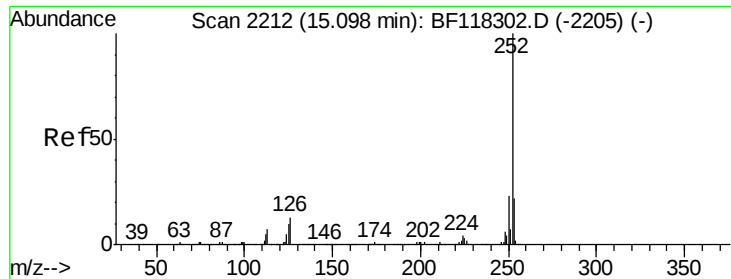
mohammad
12/27/2019 3:19:00 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.8	29.6
265	21.8	17.0	25.4





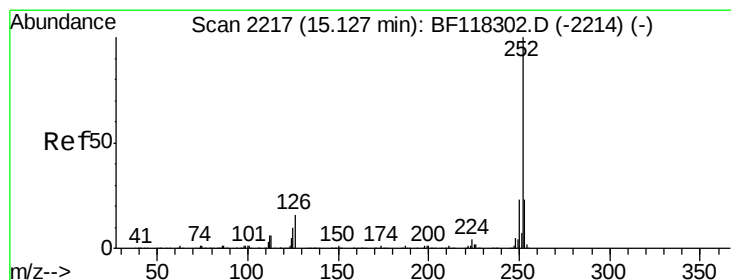
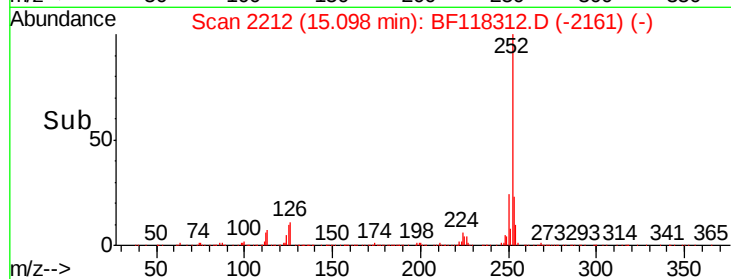
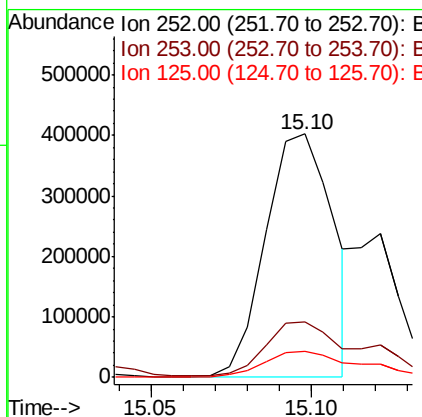
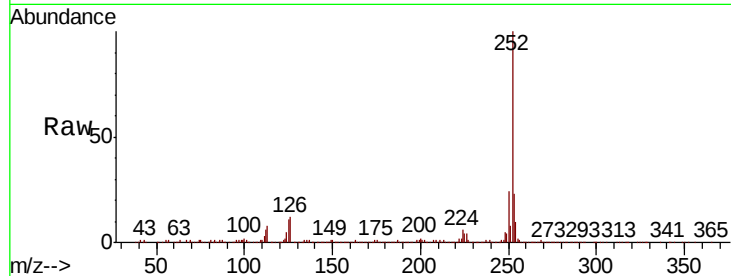
#88
Benzo(b)fluoranthene
Concen: 24.864 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.00 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	10.5	7.7	11.5

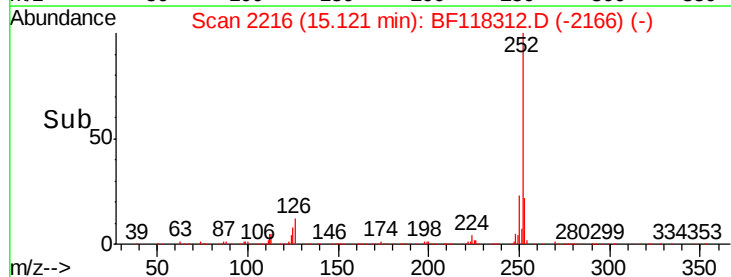
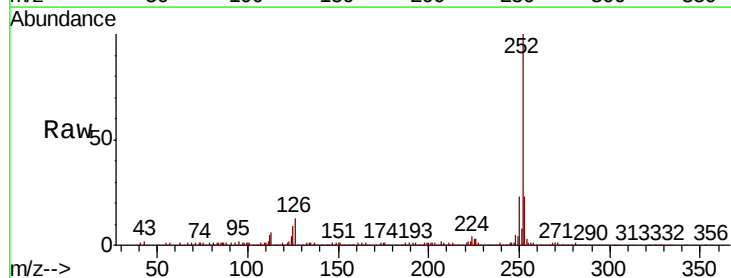
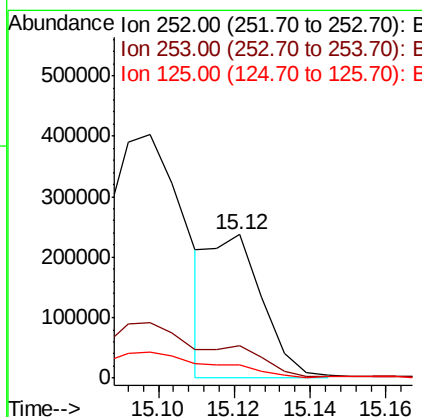
Manual Integrations
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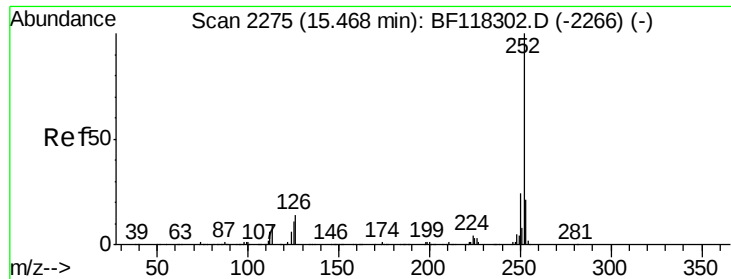
mohammad
12/27/2019 3:19:00 PM



#89
Benzo(k)fluoranthene
Concen: 9.888 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	8.9	8.0	12.0





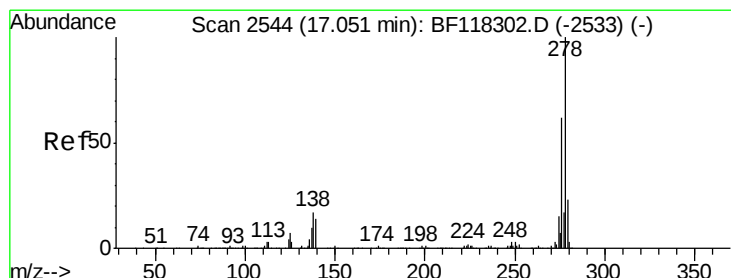
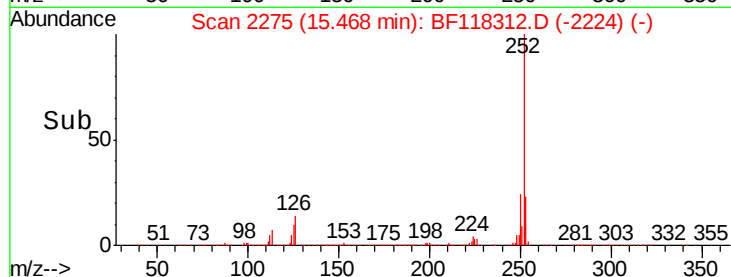
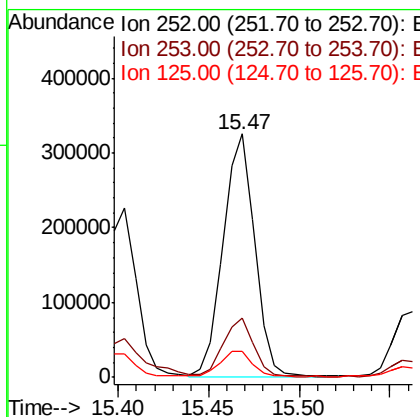
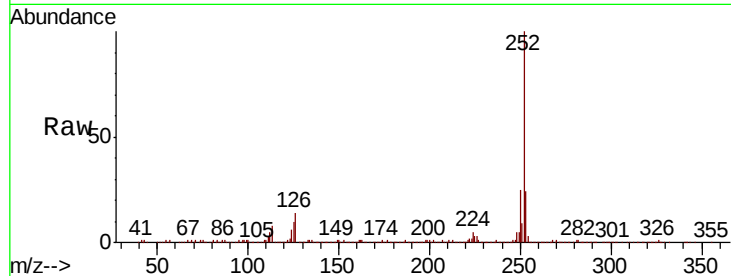
#90
Benzo(a)pyrene
Concen: 18.721 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.00 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.0	25.6
125	10.4	9.0	13.4

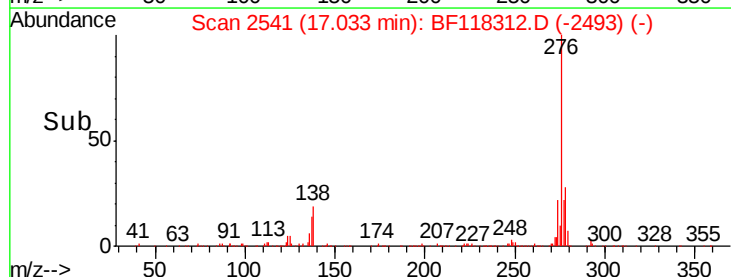
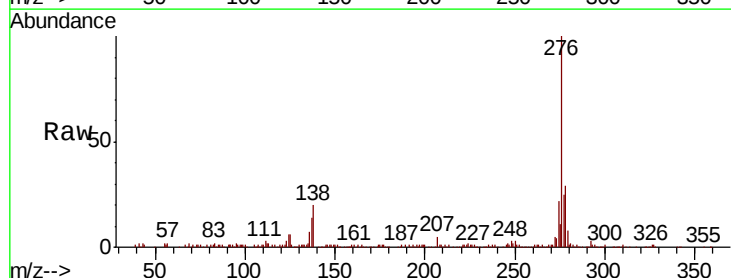
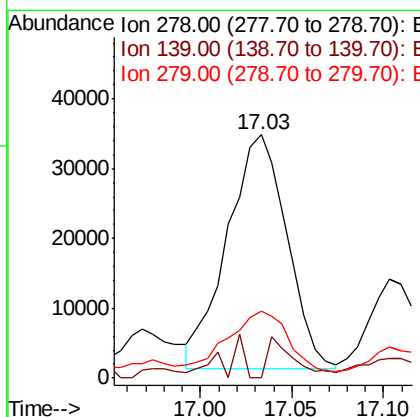
Manual Integrations
APPROVED

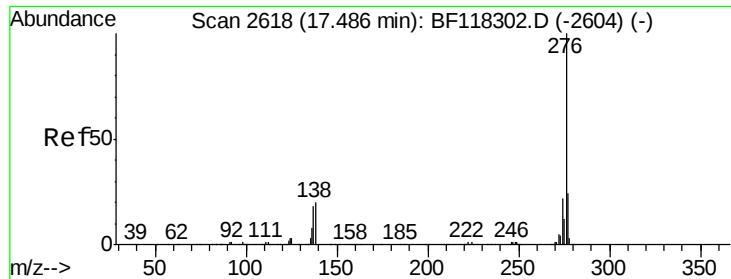
mohammad
12/27/2019 3:19:00 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.217 ng m
RT: 17.03 min Scan# 2541
Delta R.T. -0.02 min
Lab File: BF118312.D
Acq: 26 Dec 2019 13:13

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.5	17.3#
279	27.4	18.3	27.5





#92
 Benzo(a,h,i)perylene
 Concen: 12.335 ng
 RT: 17.48 min Scan# 2617
 Delta R.T. -0.01 min
 Lab File: BF118312.D
 Acq: 26 Dec 2019 13:13

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	24.0	19.1	28.7		
138	20.3	16.1	24.1		

Manual Integrations
 APPROVED

mohammad
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