

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118419.D
 Acq On : 31 Dec 2019 21:44
 Operator : JU
 Sample : K6114-01DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-O1-122719DL

Manual Integrations
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Quant Time: Jan 01 03:23:05 2020
 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	53602	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	205283	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	96233	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	157425	20.00	ng	0.00
76) Chrysene-d12	14.06	240	155204	20.00	ng	0.00
87) Perylene-d12	15.55	264	154645	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	29386	9.36	ng	0.02
7) Phenol-d6	6.50	99	39636	10.17	ng	0.01
23) Nitrobenzene-d5	7.42	82	24325	6.78	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	9582	8.06	ng	0.01
45) 2-Fluorobiphenyl	9.22	172	51306	8.14	ng	0.00
79) Terphenyl-d14	12.99	244	50257	5.37	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	38256	3.667	ng	99
37) 2-Methylnaphthalene	8.86	142	25792	3.610	ng	96
38) 1-Methylnaphthalene	8.96	142	26205m	3.894	ng	
49) Acenaphthylene	9.76	152	33354	3.671	ng	98
52) Acenaphthene	9.93	154	25927	4.685	ng	98
55) Dibenzofuran	10.11	168	37639	4.603	ng	94
58) Fluorene	10.45	166	77865	11.796	ng	94
71) Phenanthrene	11.42	178	516145	60.143	ng	99
72) Anthracene	11.47	178	131465	15.304	ng	98
73) Carbazole	11.63	167	42725	5.605	ng	96
75) Fluoranthene	12.62	202	451144	52.088	ng	99
78) Pyrene	12.85	202	402554	31.762	ng	99
81) Benzo(a)anthracene	14.04	228	227021	20.897	ng	99
83) Chrysene	14.08	228	186700	17.948	ng	98
86) Indeno(1,2,3-cd)pyrene	17.07	276	65888	7.434	ng	97
88) Benzo(b)fluoranthene	15.12	252	228998m	22.308	ng	
89) Benzo(k)fluoranthene	15.14	252	64471m	6.541	ng	
90) Benzo(a)pyrene	15.49	252	153596	16.985	ng	98
91) Dibenzo(a,h)anthracene	17.07	278	18355	2.339	ng	# 86
92) Benzo(a,h,i)perylene	17.53	276	55628	7.338	ng	99

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

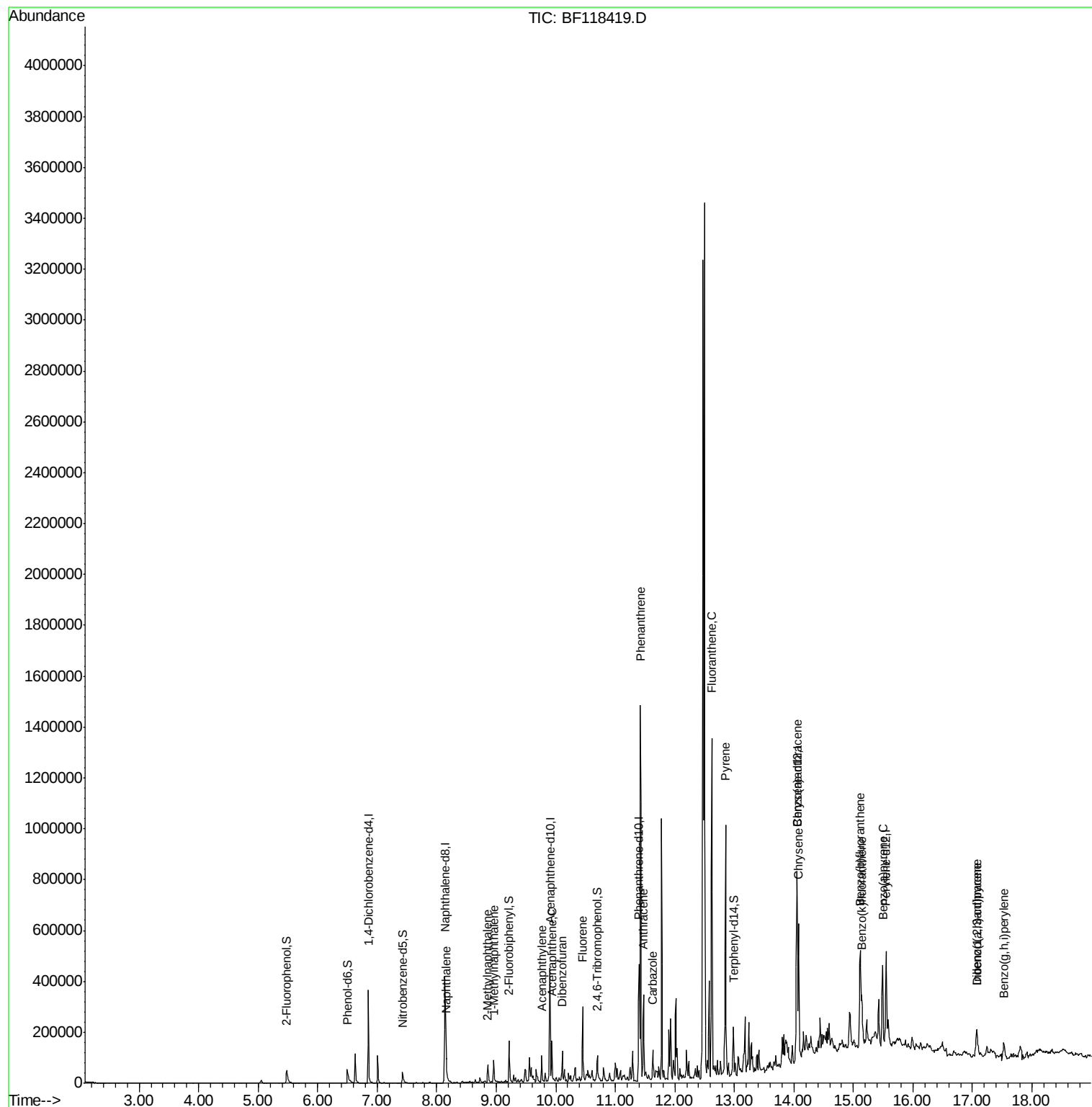
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118419.D
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Misc :
ALS Vial : 22 Sample Multiplier: 1

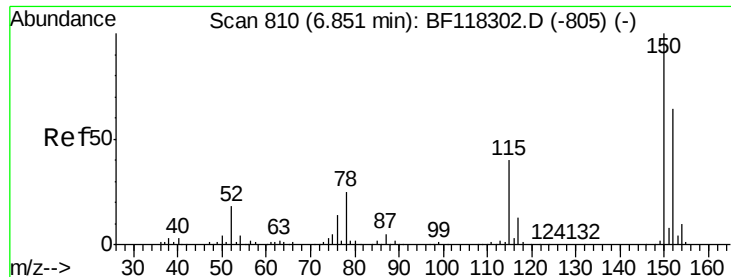
Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

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Quant Time: Jan 01 03:23:05 2020
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





#1

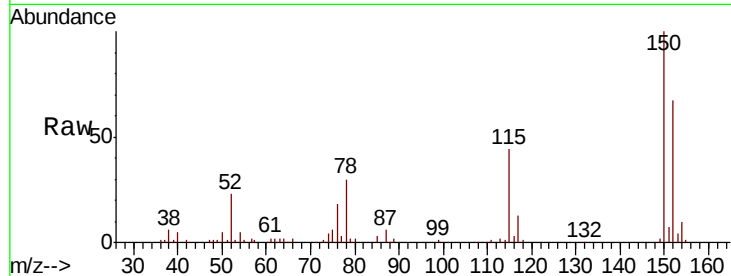
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.3	125.4	188.2
115	65.3	50.2	75.4

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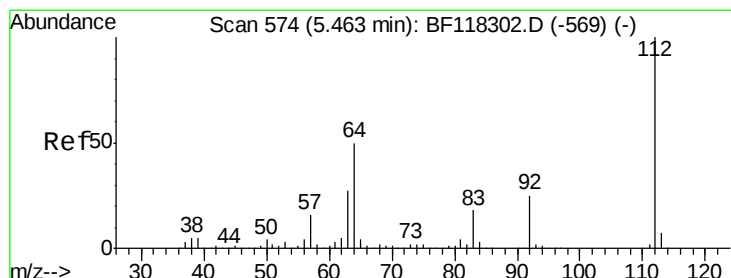
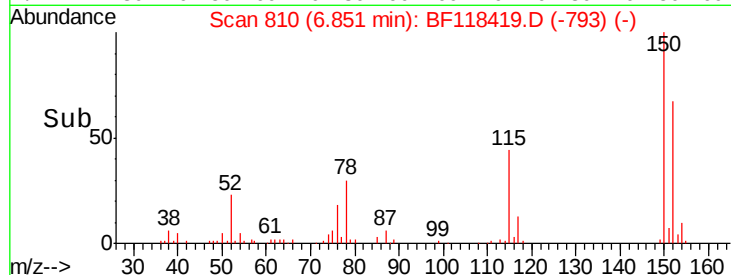
Abundance

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

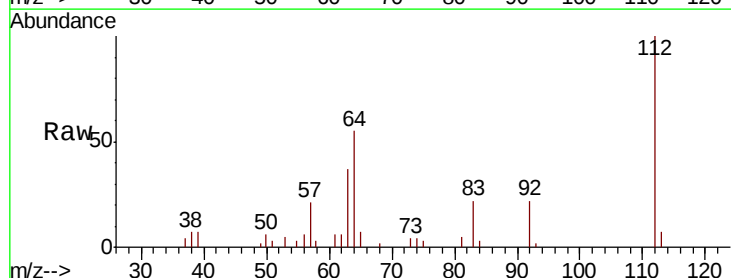
Time-->



#5

2-Fluorophenol
Concen: 9.358 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.02 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	39.7	59.5
63	36.7	21.7	32.5



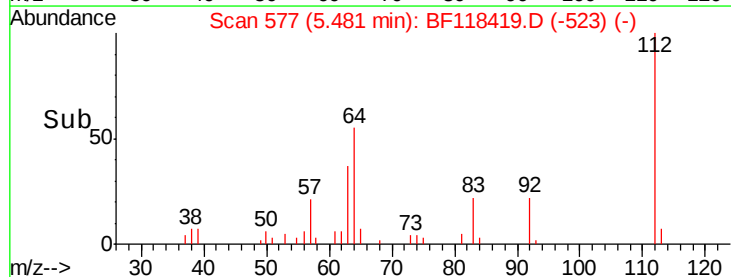
Abundance

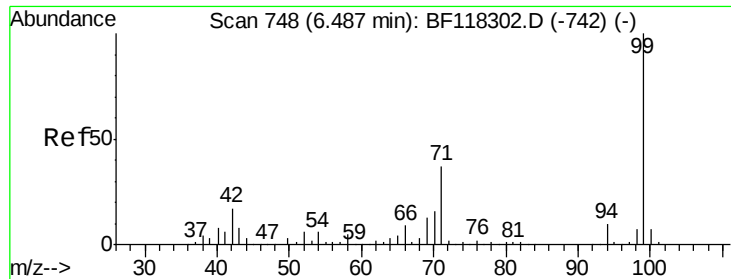
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 10.175 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Instrument :

BNA_F

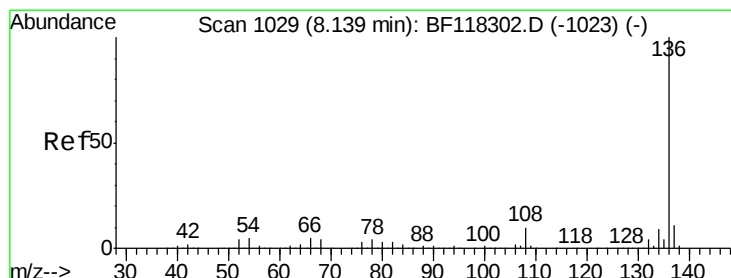
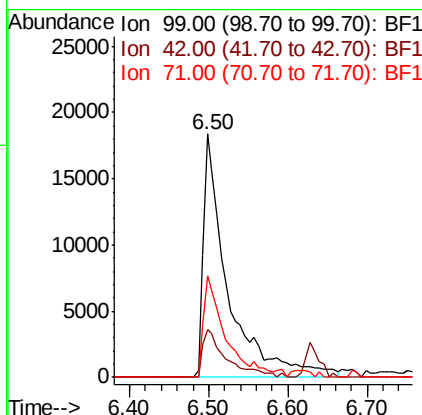
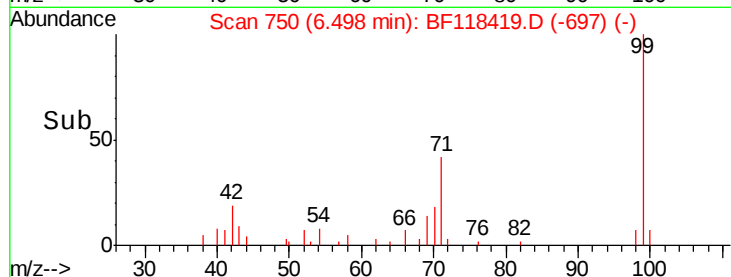
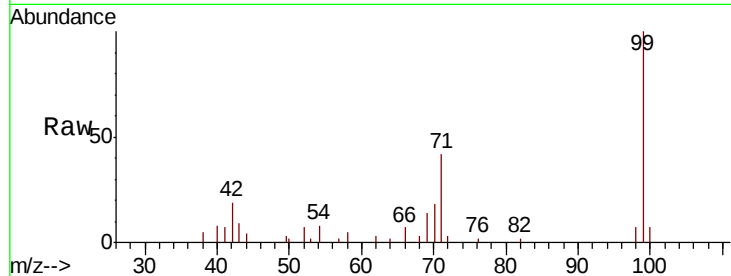
ClientSampleId :

EO-O1-122719DL

Tot Ion:	99	Resp:	39636
Ion Ratio	Lower	Upper	
99	100		
42	19.4	13.5	20.3
71	41.9	29.4	44.2

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#21

Naphthalene-d8

Concen: 20.000 ng

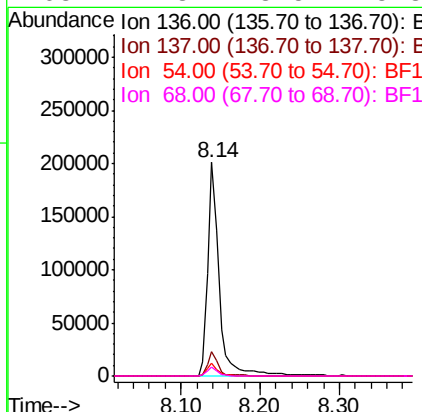
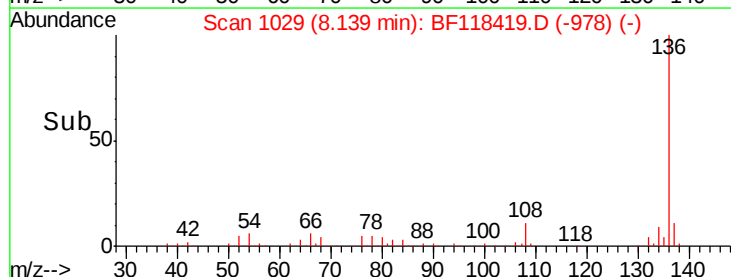
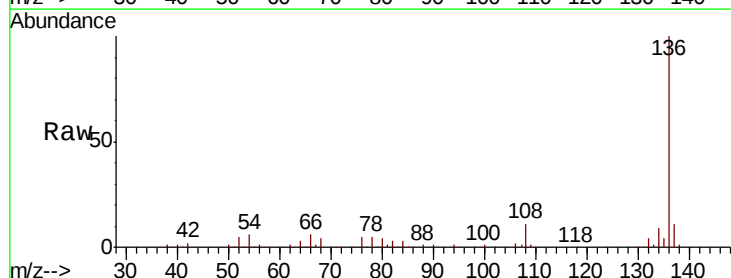
RT: 8.14 min Scan# 1029

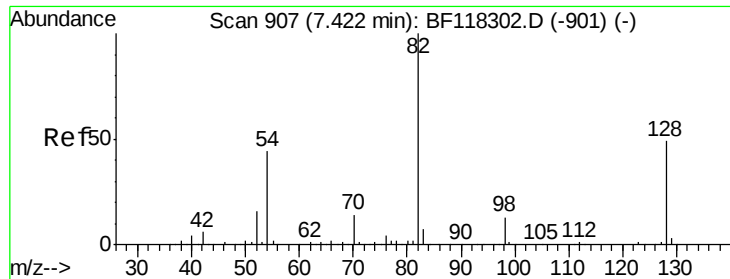
Delta R.T. -0.00 min

Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Tgt Ion:	136	Resp:	205283
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	6.2	4.2	6.4
68	4.3	3.5	5.3





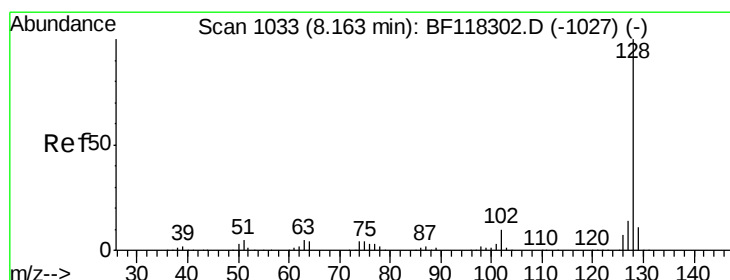
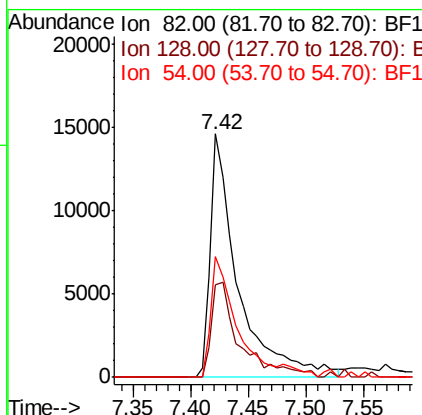
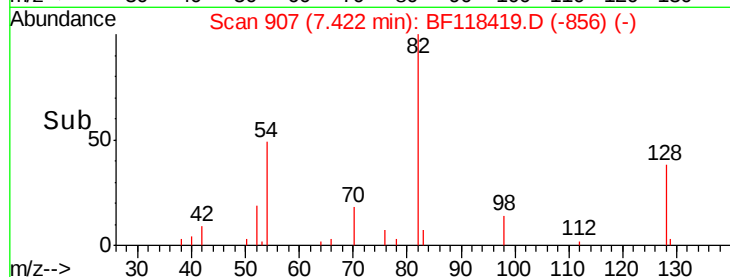
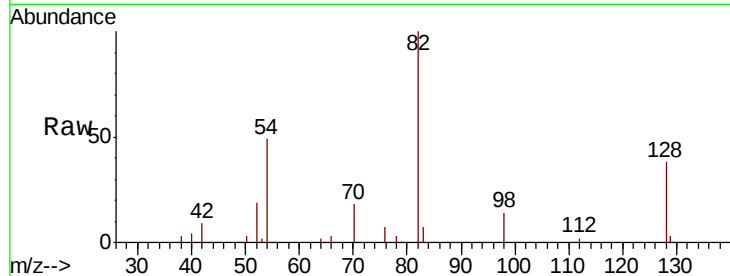
#23
 Nitrobenzene-d5
 Concen: 6.777 ng
 RT: 7.42 min Scan# 907
 Delta R.T. -0.00 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :
 EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.1	39.6	59.4#
54	49.3	34.9	52.3

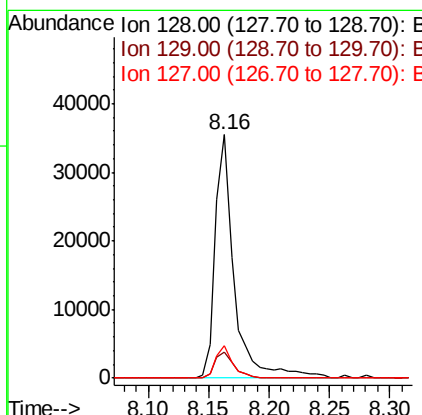
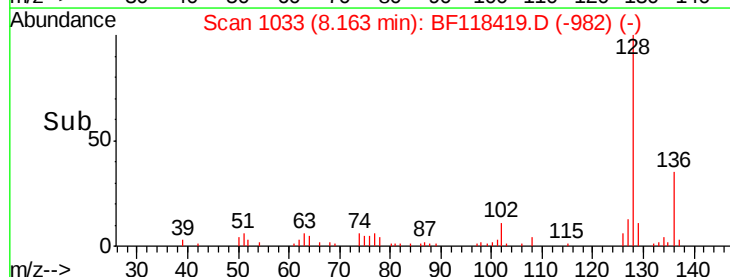
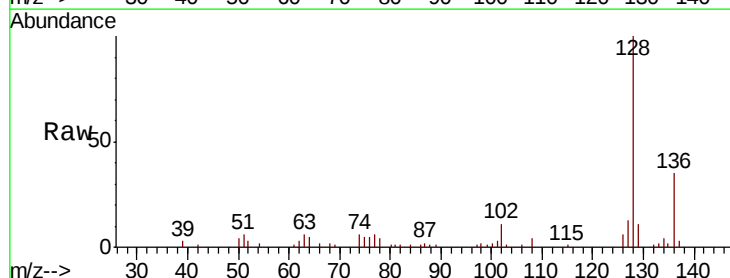
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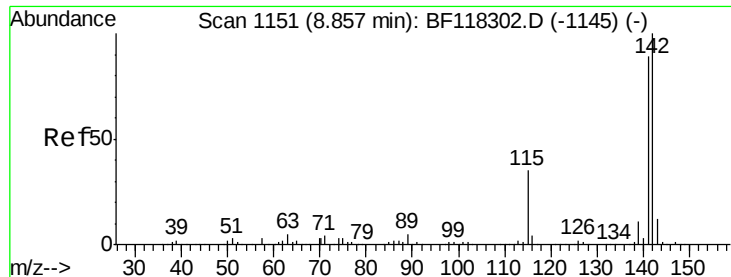
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#31
 Naphthalene
 Concen: 3.667 ng
 RT: 8.16 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.0	13.4
127	13.3	11.0	16.4





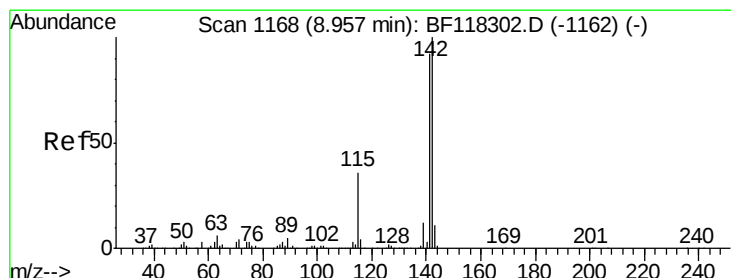
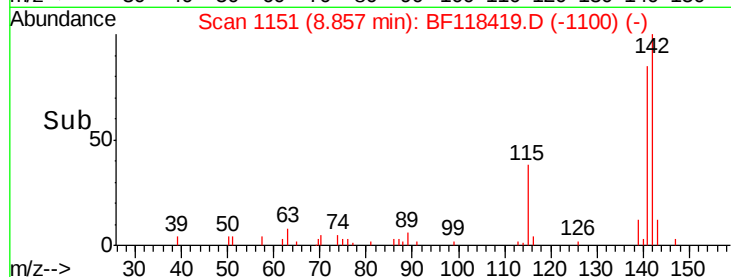
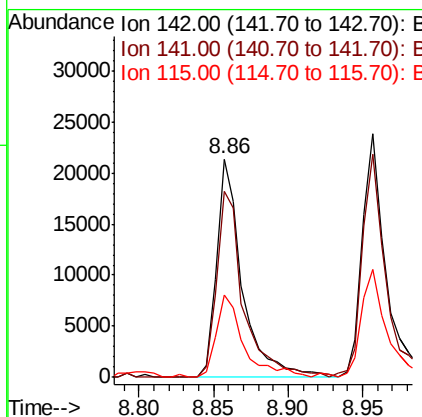
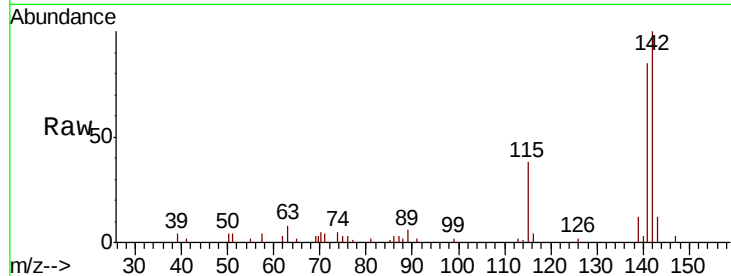
#37
2-Methylnaphthalene
Concen: 3.610 ng
RT: 8.86 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.3	71.2	106.8
115	37.6	28.0	42.0

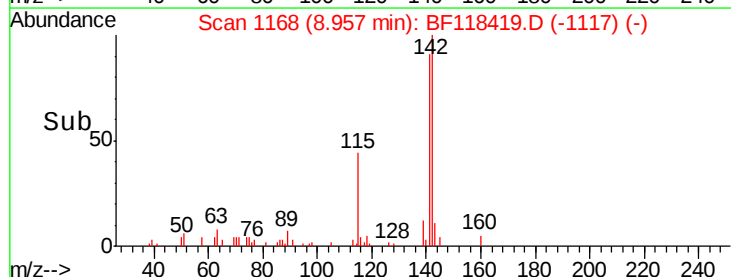
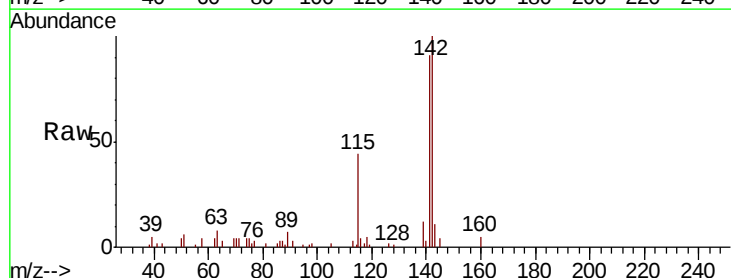
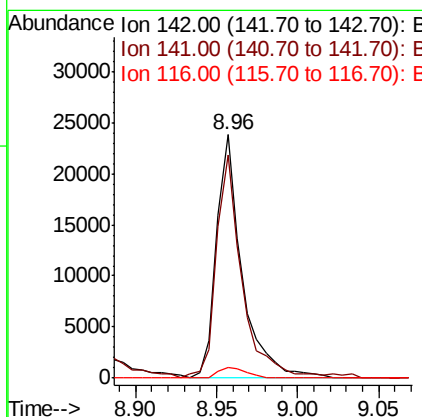
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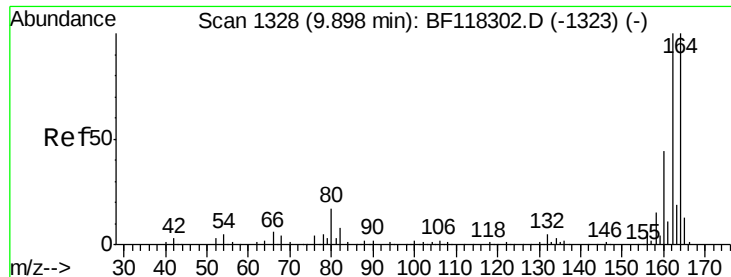
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#38
1-Methylnaphthalene
Concen: 3.894 ng m
RT: 8.96 min Scan# 1168
Delta R.T. -0.00 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.4	110.2
116	4.4	2.9	4.3#





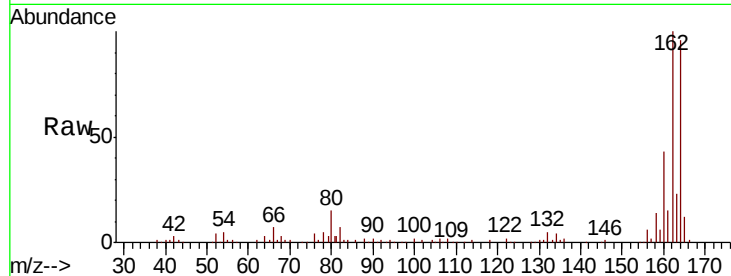
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

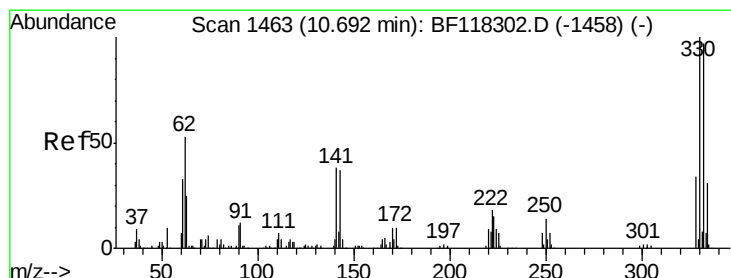
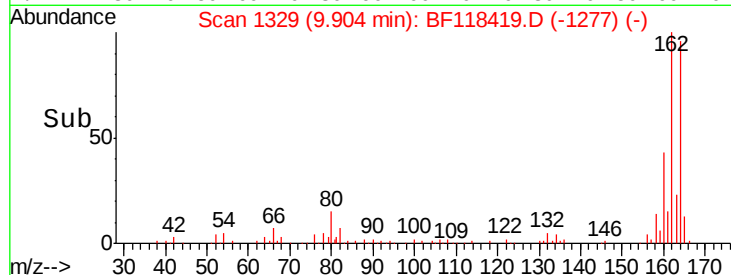
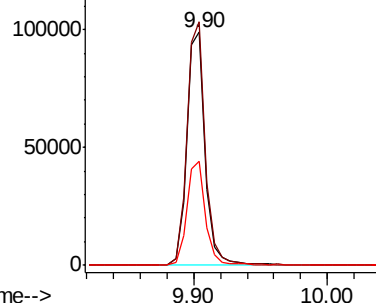
Tot Ion	Ratio	Lower	Upper
164	100		
162	104.5	80.0	120.0
160	44.6	34.8	52.2

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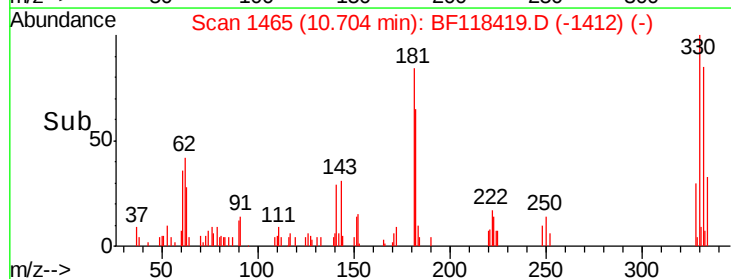
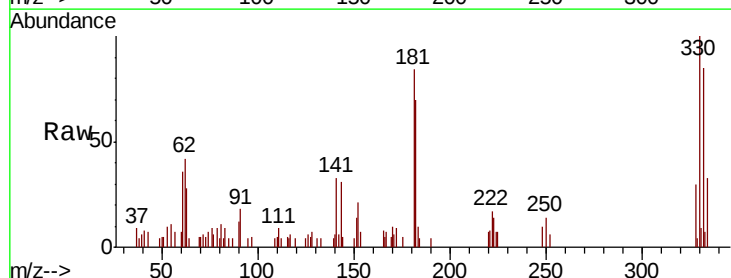
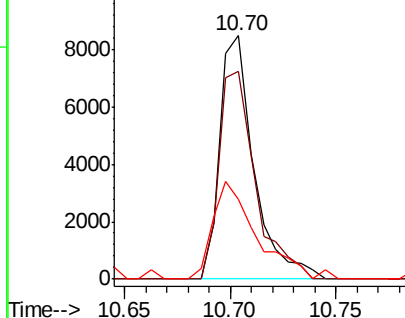
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

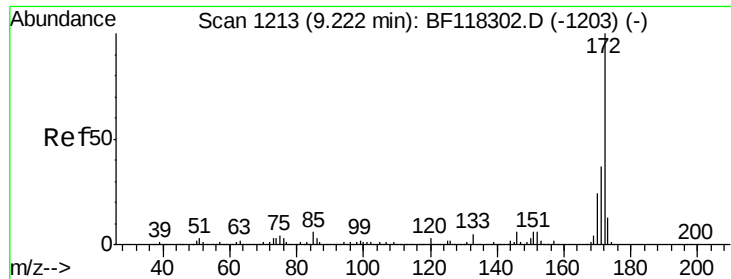


#42
2,4,6-Tribromophenol
Concen: 8.063 ng
RT: 10.70 min Scan# 1465
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.5	76.6	114.8
141	51.4	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





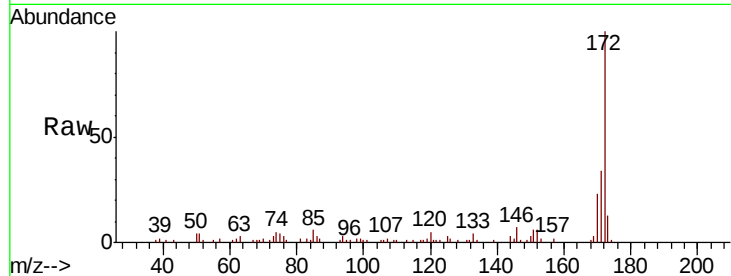
#45
2-Fluorobiphenyl
Concen: 8.138 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.3	43.9
170	22.8	19.2	28.8

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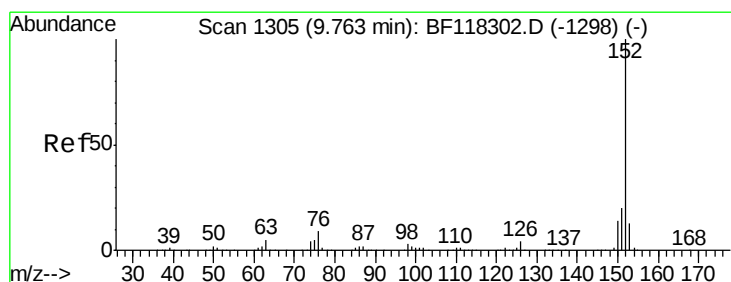
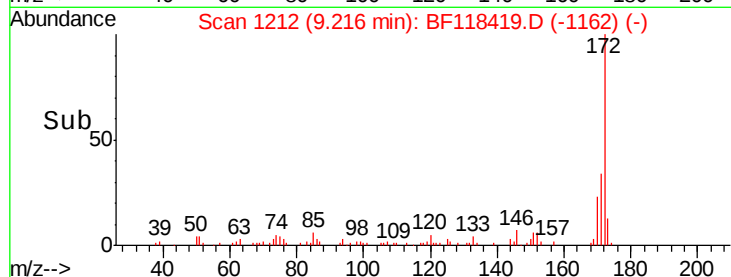
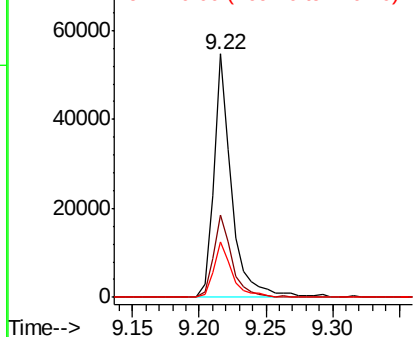


Abundance

Ion 172.00 (171.70 to 172.70): E

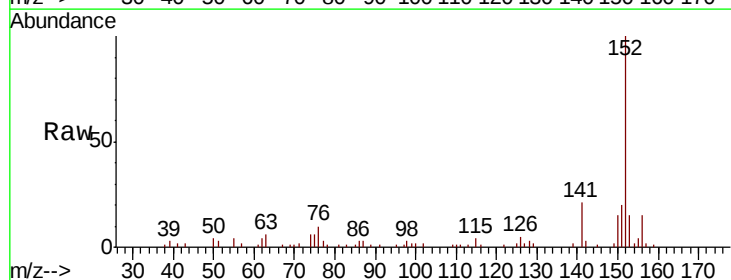
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 3.671 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	15.1	10.5	15.7

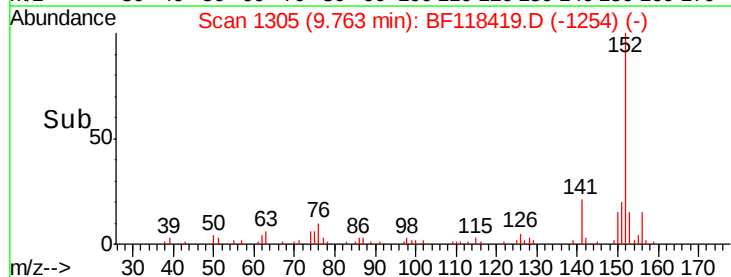
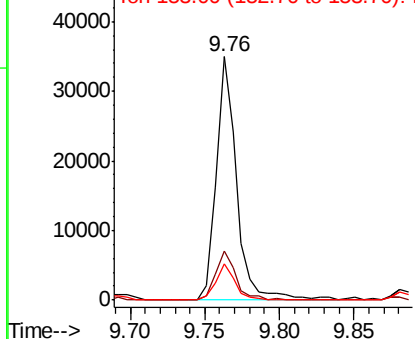


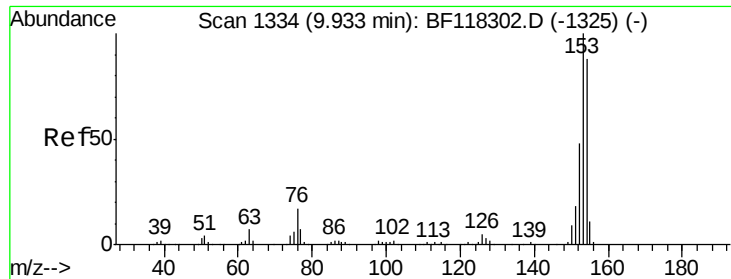
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#52

Acenaphthene

Concen: 4.685 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.00 min

Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Instrument :

BNA_F

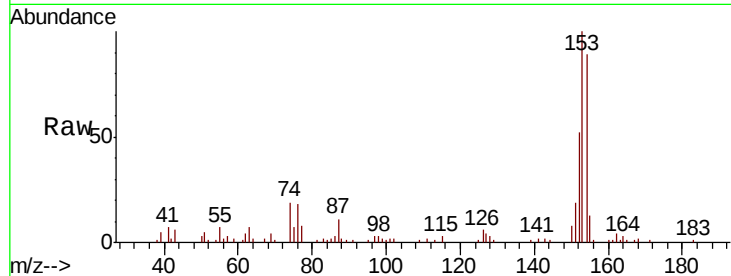
ClientSampleId :

EO-O1-122719DL

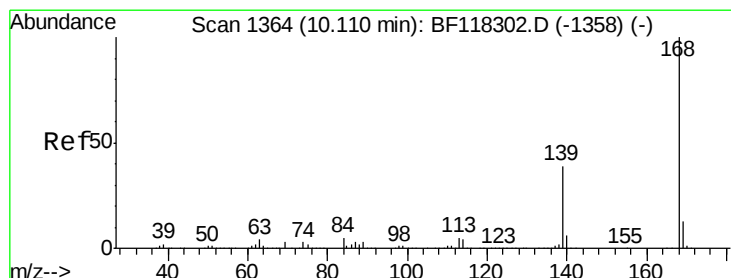
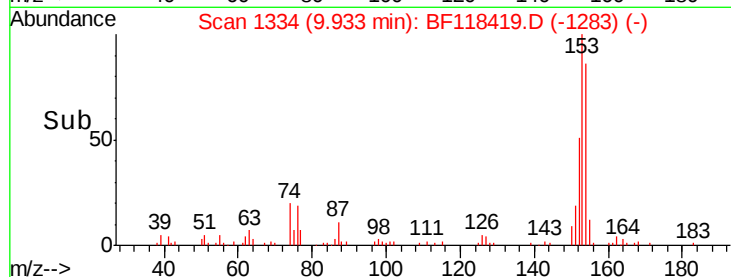
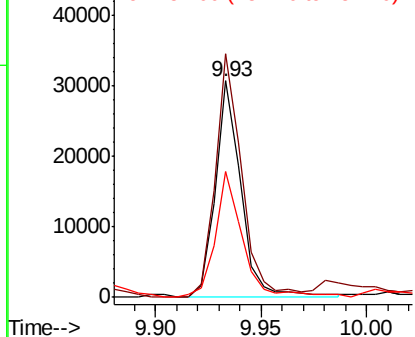
Tot Ion:	154	Resp:	25927
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.6	136.0
152	58.1	43.1	64.7

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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: 4.603 ng

RT: 10.11 min Scan# 1364

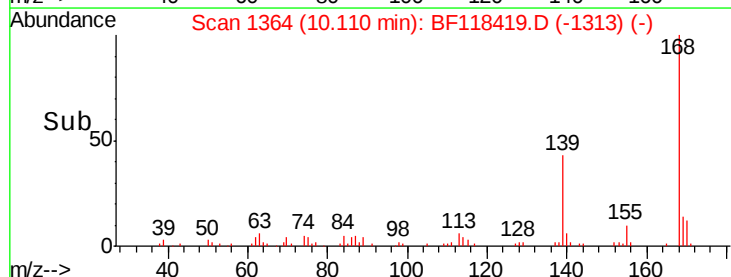
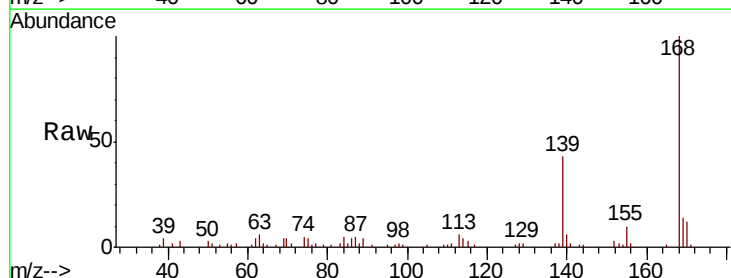
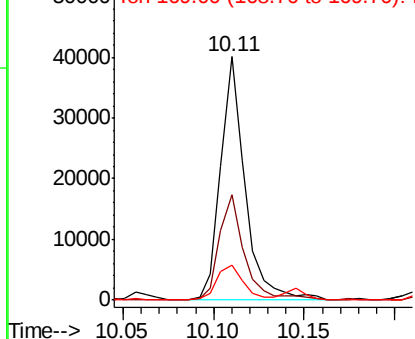
Delta R.T. -0.00 min

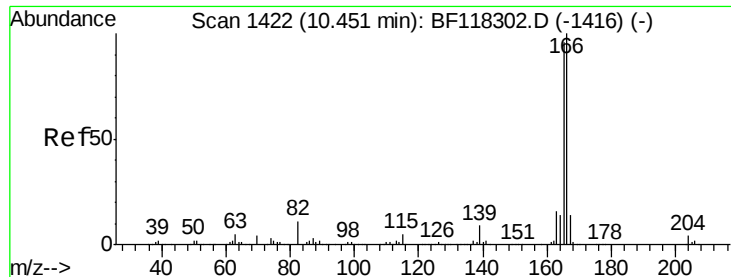
Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Tgt Ion:	168	Resp:	37639
Ion Ratio	Lower	Upper	
168	100		
139	43.4	31.5	47.3
169	14.3	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





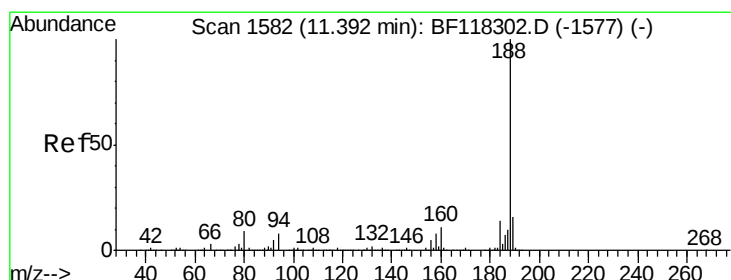
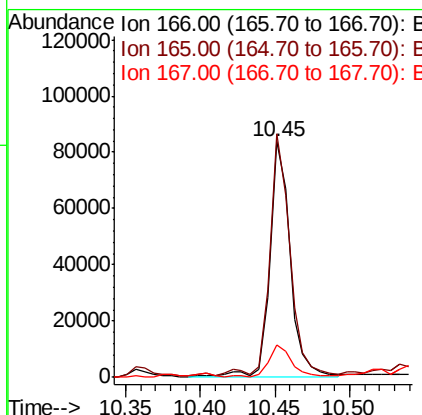
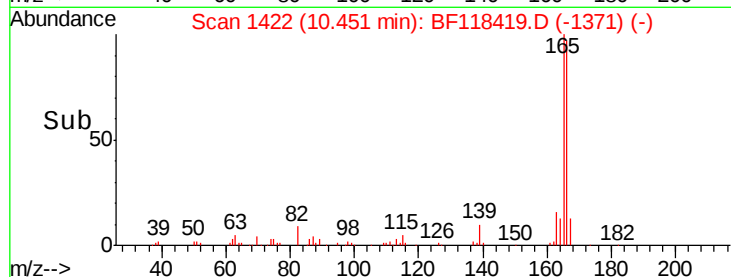
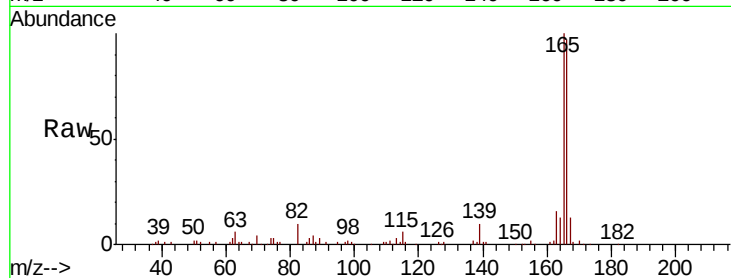
#58
 Fluorene
 Concen: 11.796 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. -0.00 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :
 EO-O1-122719DL

Tot Ion:	166	Resp:	77865
Ion Ratio	Lower	Upper	
166	100		
165	103.3	77.0	115.4
167	13.7	10.9	16.3

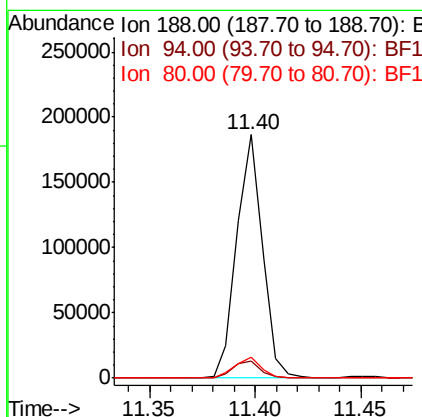
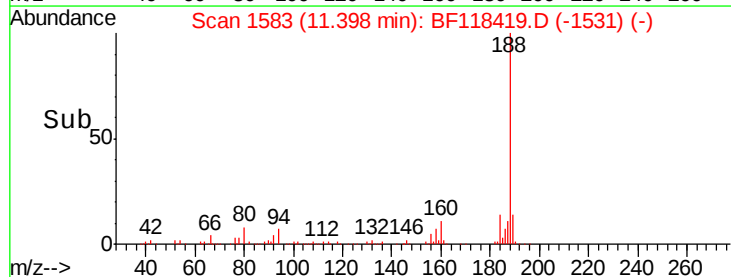
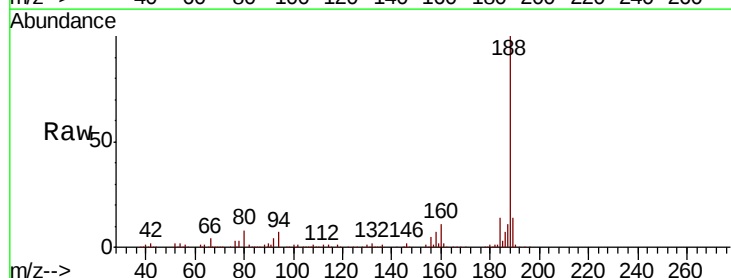
Manual Integrations
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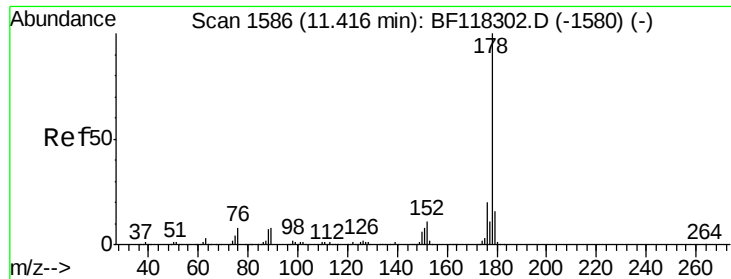
mohammad
 1/2/2020 11:50:22 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Tgt Ion:	188	Resp:	157425
Ion Ratio	Lower	Upper	
188	100		
94	7.1	6.7	10.1
80	8.4	7.2	10.8





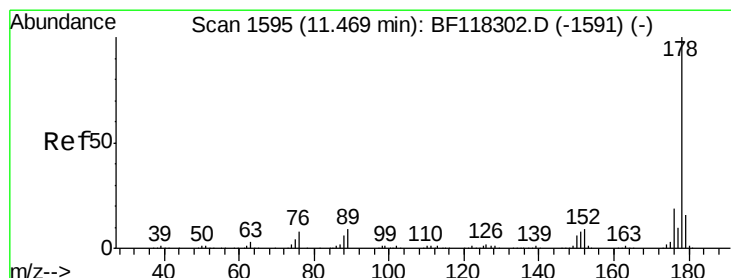
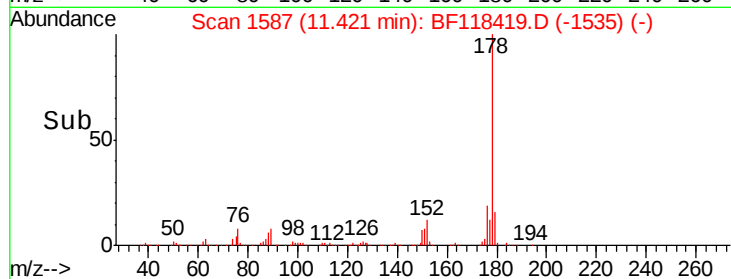
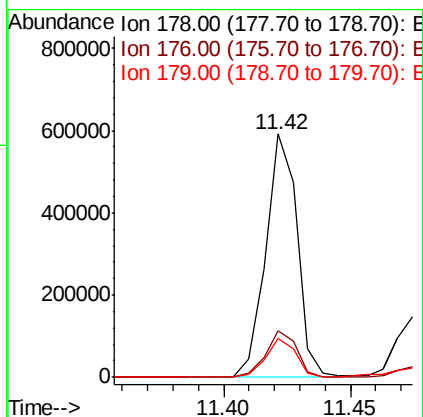
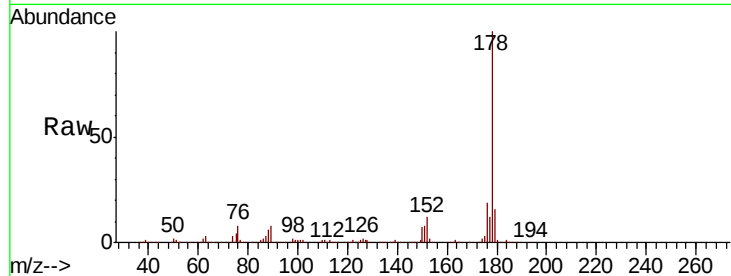
#71
Phenanthrene
Concen: 60.143 ng
RT: 11.42 min Scan# 1587
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.6	23.4
179	16.0	12.6	19.0

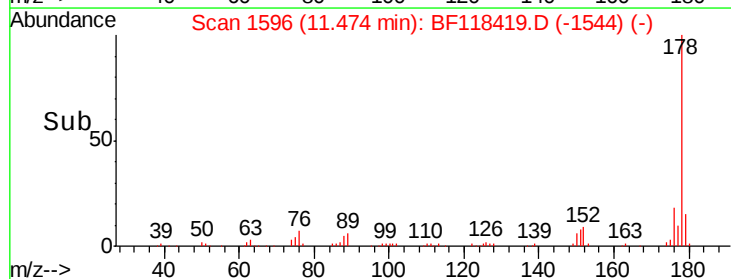
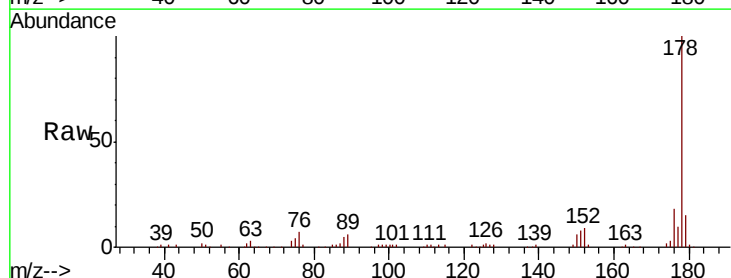
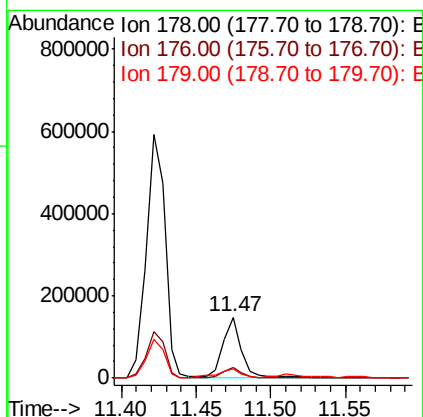
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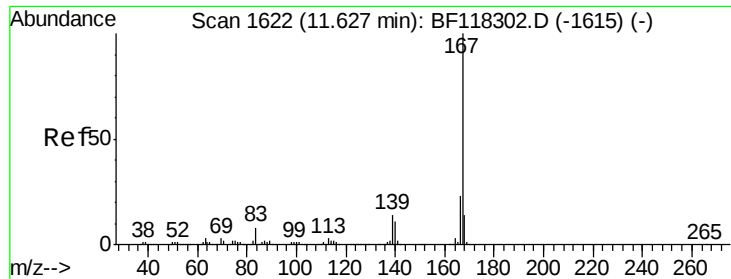
mohammad
1/2/2020 11:50:22 AM



#72
Anthracene
Concen: 15.304 ng
RT: 11.47 min Scan# 1596
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.2	22.8
179	15.1	12.9	19.3





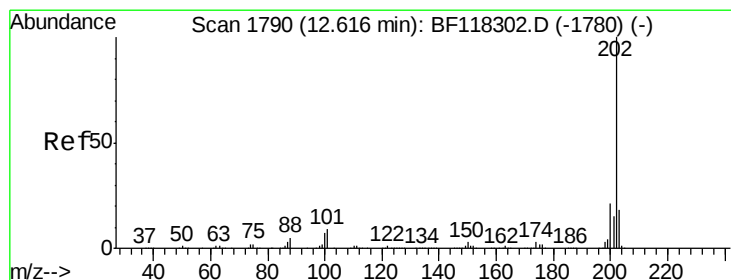
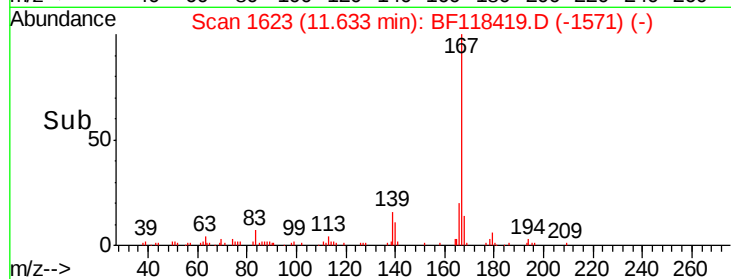
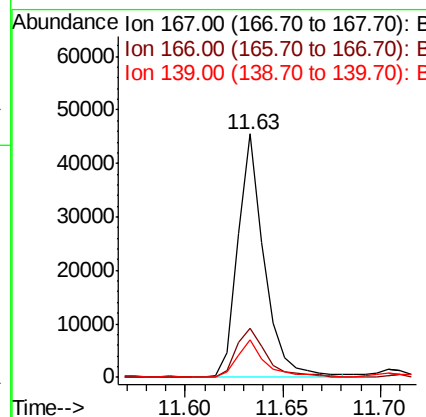
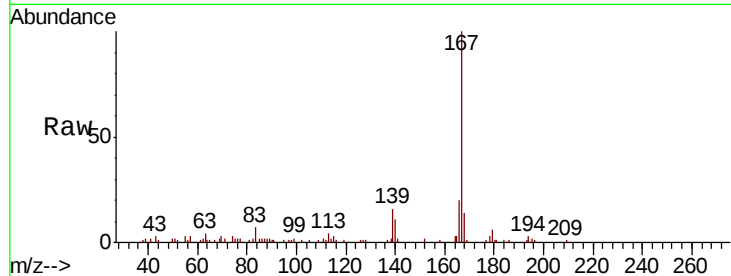
#73
 Carbazole
 Concen: 5.605 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. 0.01 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :
 EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.1	18.1	27.1
139	15.6	11.5	17.3

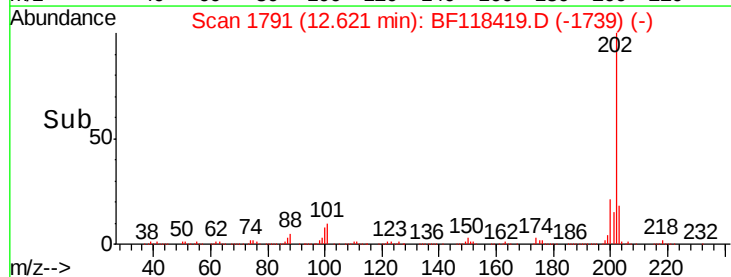
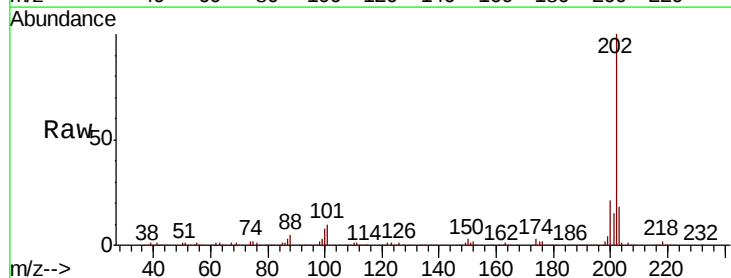
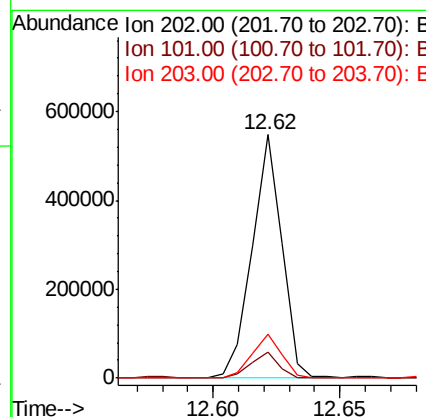
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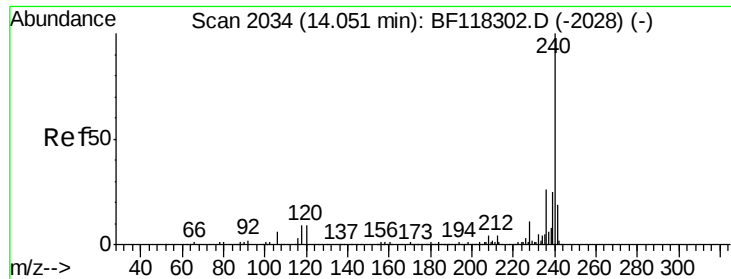
mohammad
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#75
 Fluoranthene
 Concen: 52.088 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	29.5
203	17.9	0.0	37.6





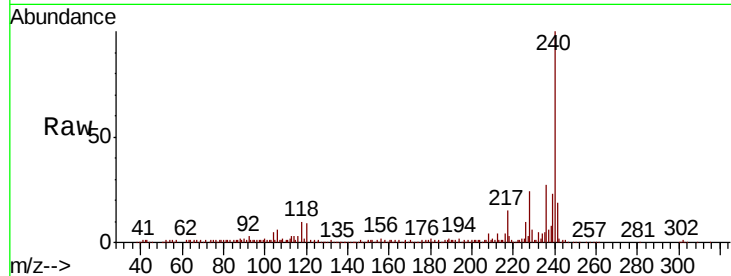
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.1	10.7
236	27.0	21.0	31.6

Manual Integrations
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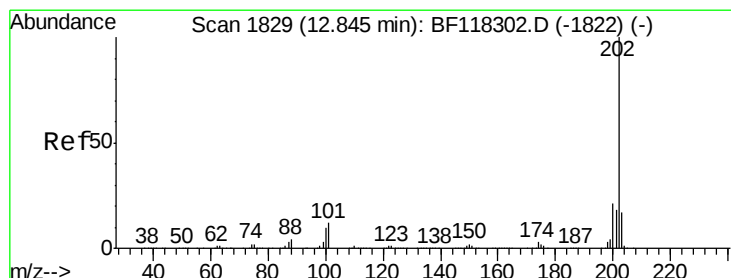
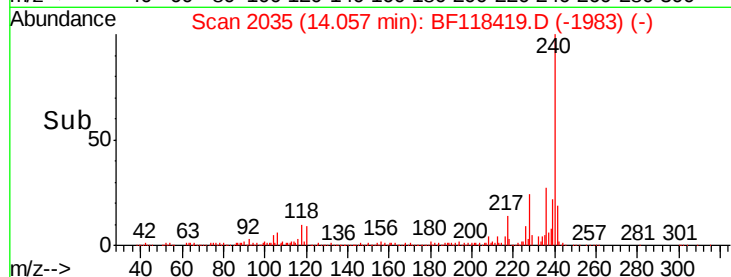
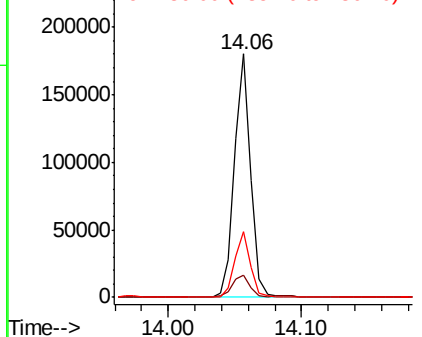


Abundance

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
Pyrene
Concen: 31.762 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

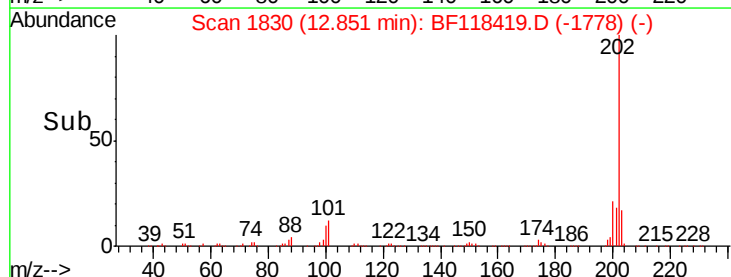
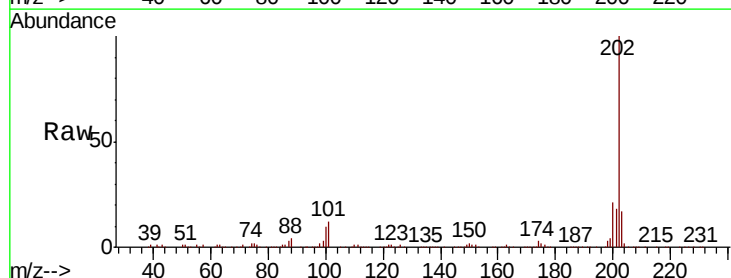
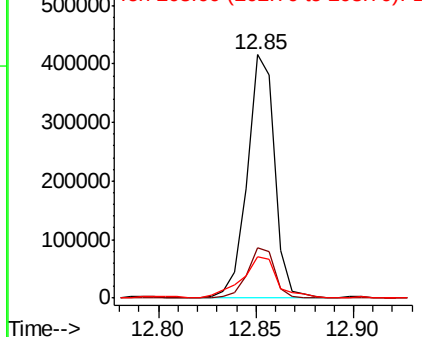
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.8	25.2
203	17.1	13.9	20.9

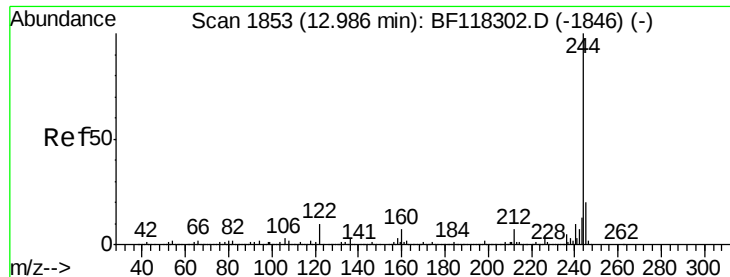
Abundance

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





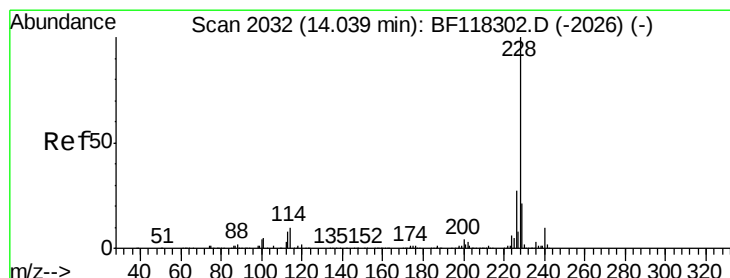
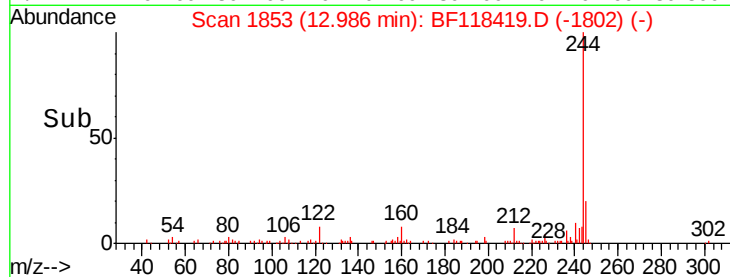
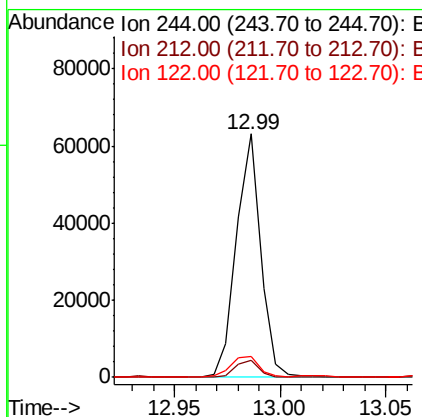
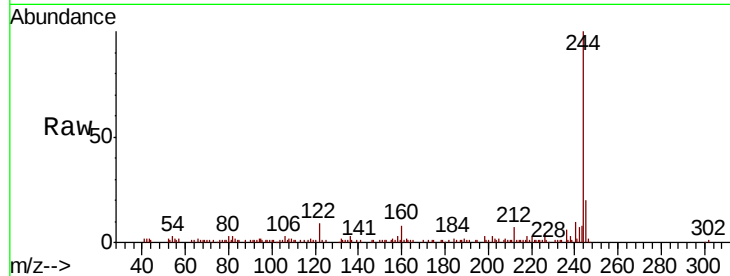
#79
 Terphenyl-d14
 Concen: 5.372 ng
 RT: 12.99 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :
 EO-O1-122719DL

Tot Ion:	244	Resp:	50257
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.2
122	8.7	7.8	11.8

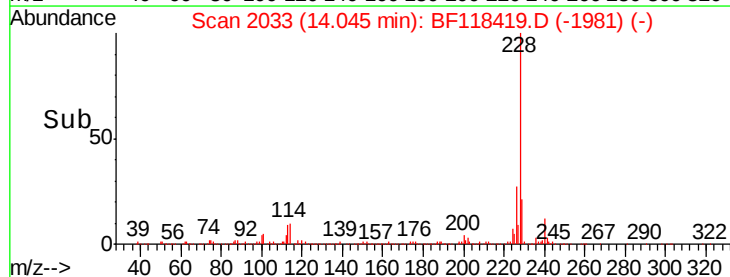
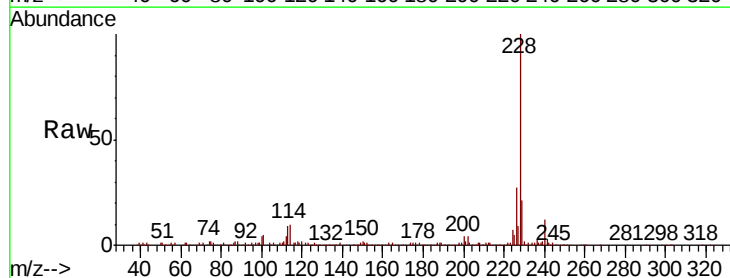
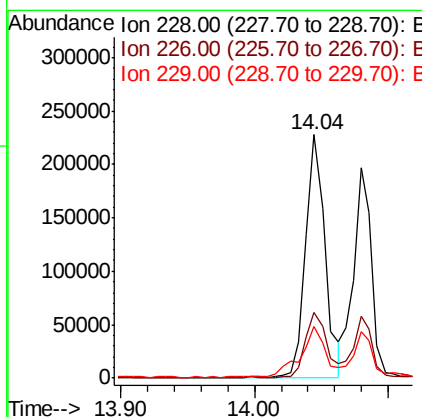
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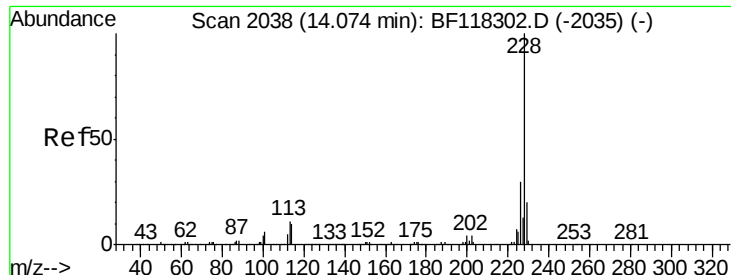
mohammad
 1/2/2020 11:50:22 AM



#81
 Benzo(a)anthracene
 Concen: 20.897 ng
 RT: 14.04 min Scan# 2033
 Delta R.T. 0.01 min
 Lab File: BF118419.D
 Acq: 31 Dec 2019 21:44

Tgt Ion:	228	Resp:	227021
Ion Ratio	Lower	Upper	
228	100		
226	27.2	22.0	33.0
229	20.9	16.6	24.8





#83

Chrvsene

Concen: 17.948 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.01 min

Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Instrument :

BNA_F

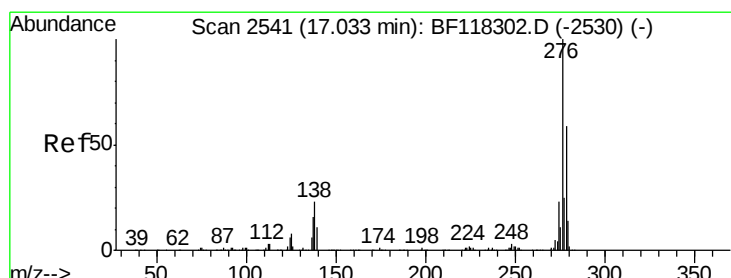
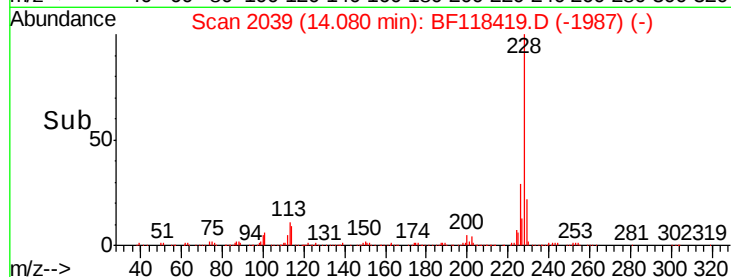
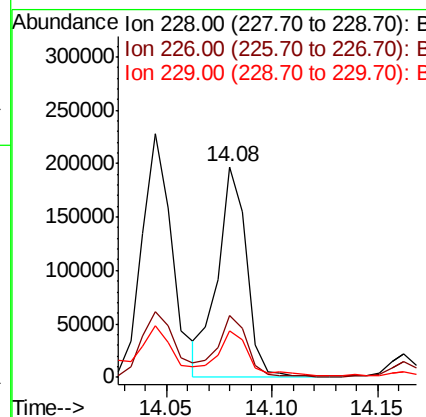
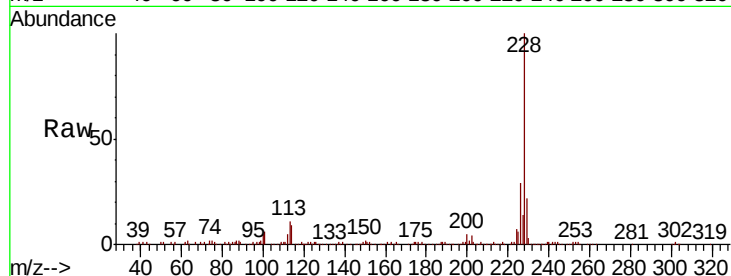
ClientSampleId :

EO-O1-122719DL

Tot Ion:	228	Resp:	186700
Ion Ratio	Lower	Upper	
228	100		
226	29.4	23.9	35.9
229	21.9	16.1	24.1

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1/2/2020 11:50:22 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.434 ng

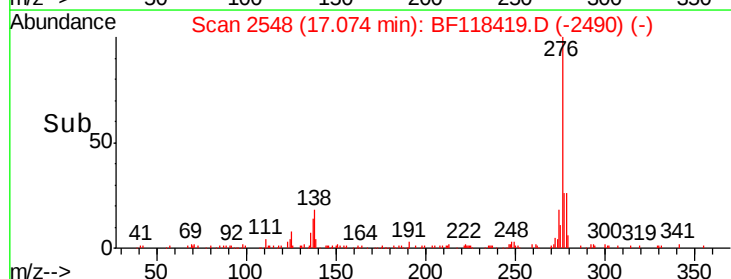
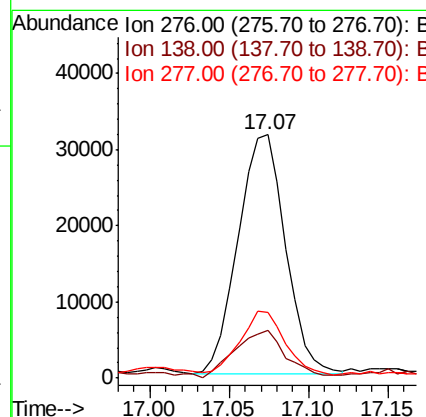
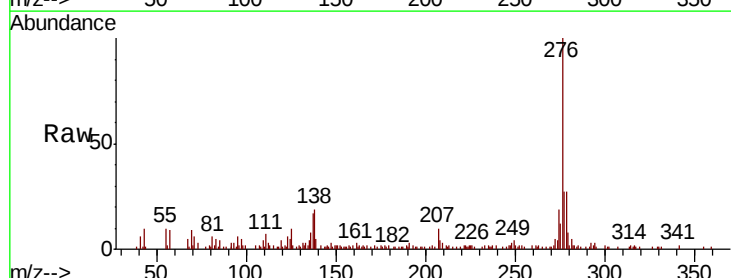
RT: 17.07 min Scan# 2548

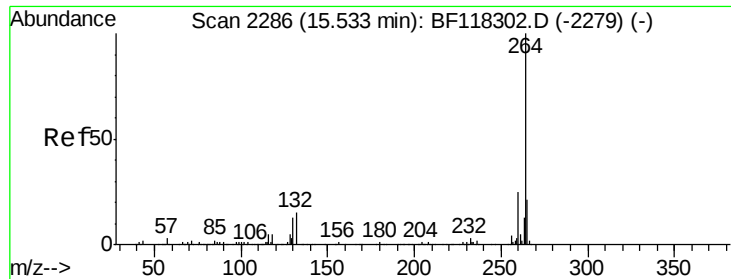
Delta R.T. 0.04 min

Lab File: BF118419.D

Acq: 31 Dec 2019 21:44

Tgt Ion:	276	Resp:	65888
Ion Ratio	Lower	Upper	
276	100		
138	21.3	19.5	29.3
277	25.5	20.6	30.8





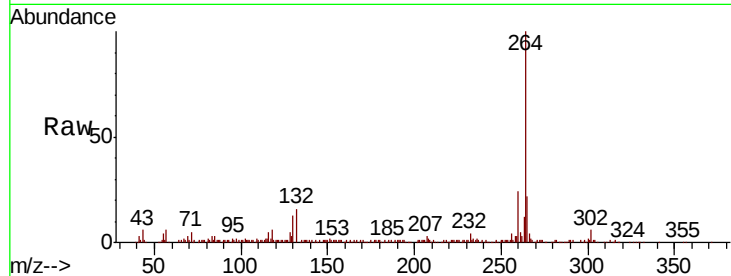
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. 0.02 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.8	29.6
265	22.4	17.0	25.4

Manual Integrations
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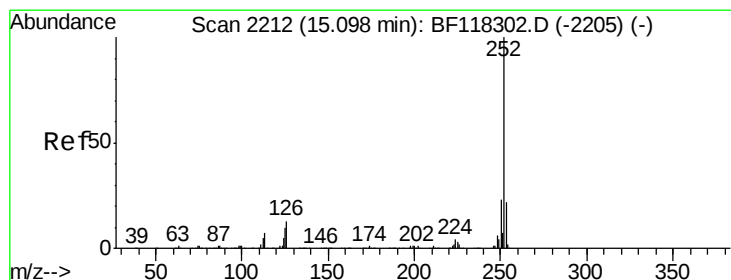
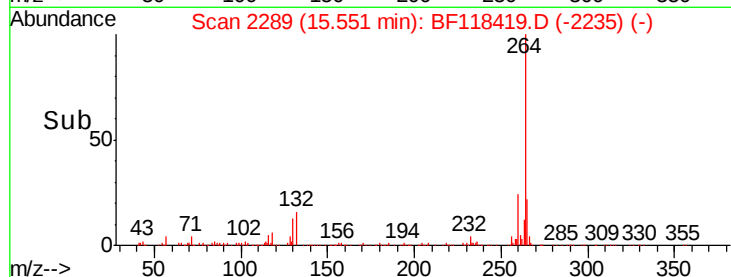
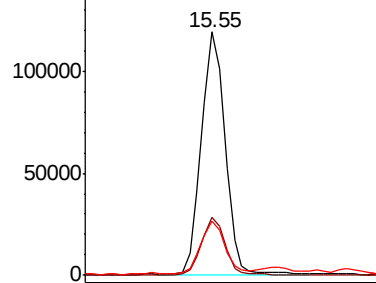


Abundance

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: 22.308 ng m
RT: 15.12 min Scan# 2215
Delta R.T. 0.02 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

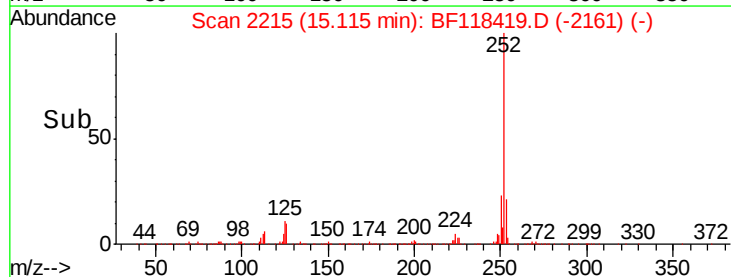
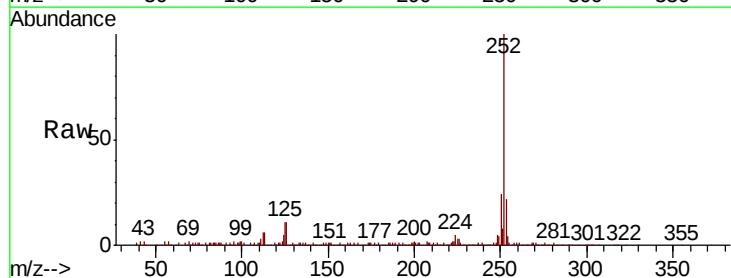
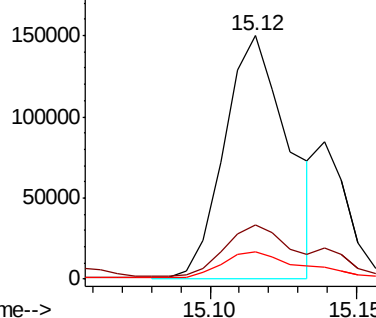
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.1	7.7	11.5

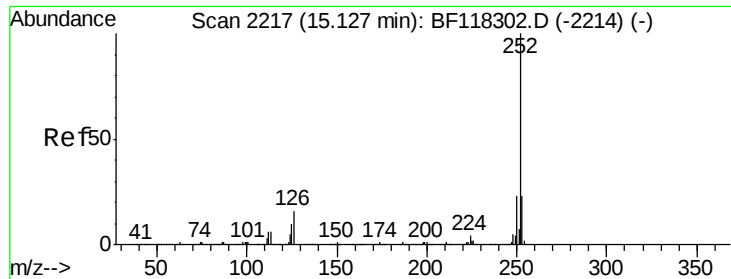
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





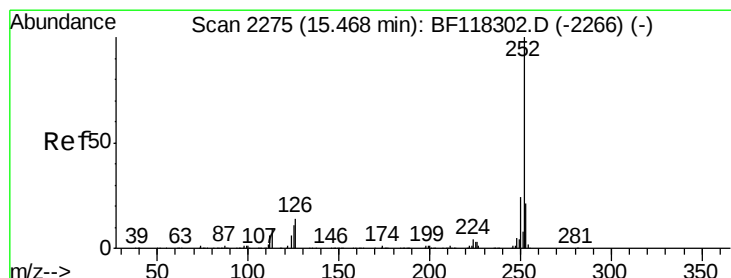
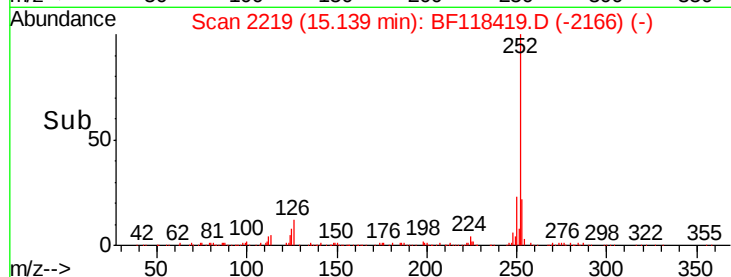
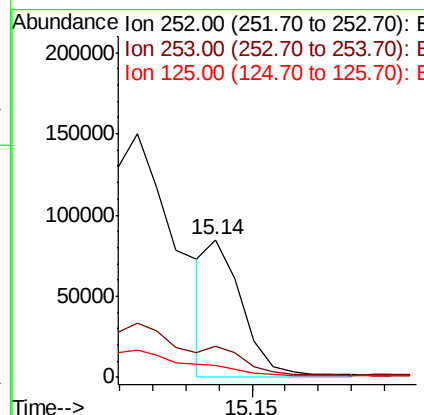
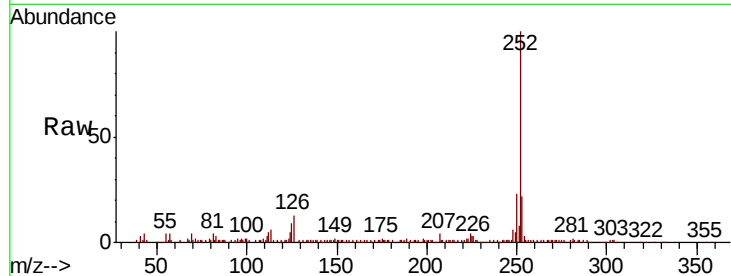
#89
Benzo(k)fluoranthene
Concen: 6.541 ng m
RT: 15.14 min Scan# 2219
Delta R.T. 0.01 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	8.7	8.0	12.0

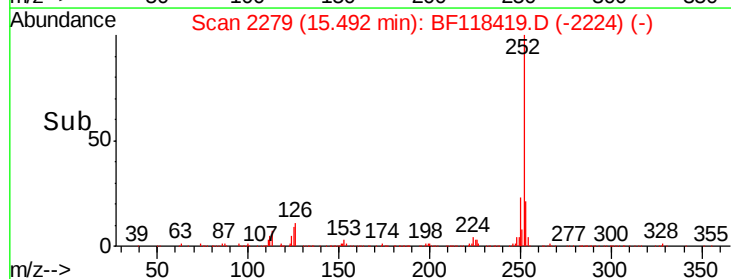
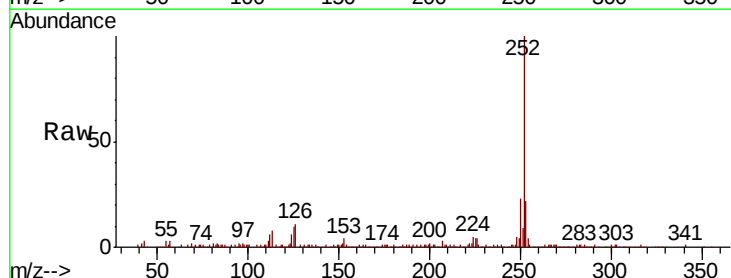
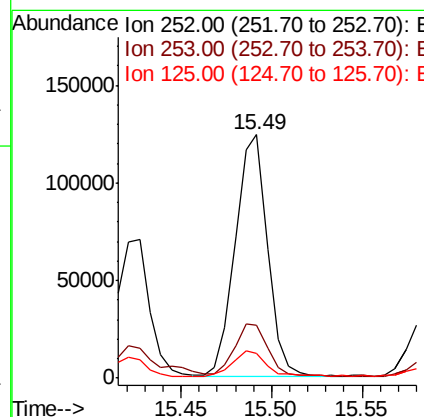
Manual Integrations
APPROVED

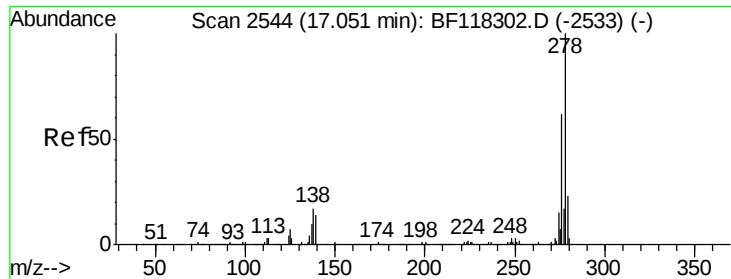
mohammad
1/2/2020 11:50:22 AM



#90
Benzo(a)pyrene
Concen: 16.985 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.02 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.6
125	9.9	9.0	13.4





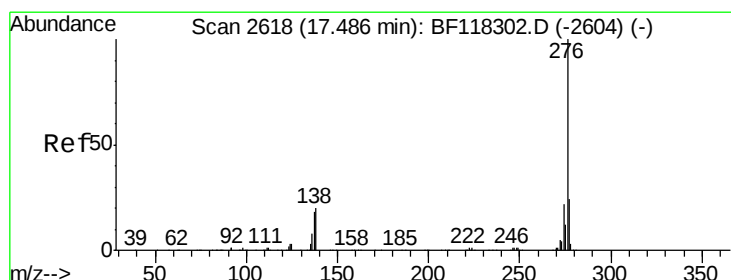
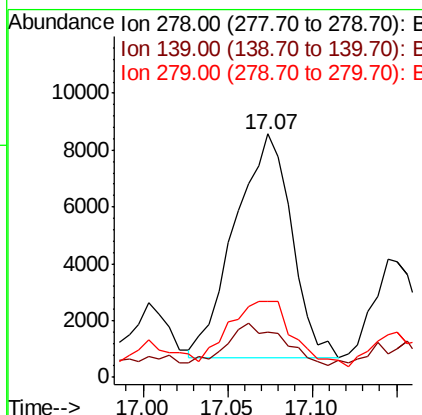
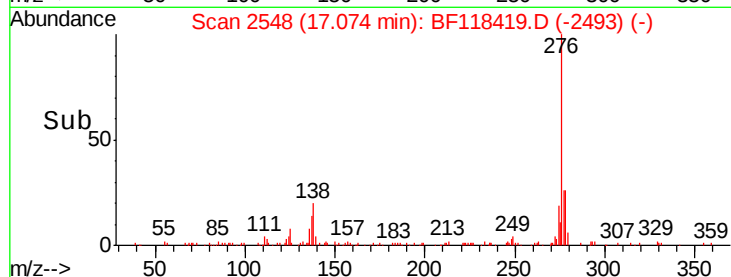
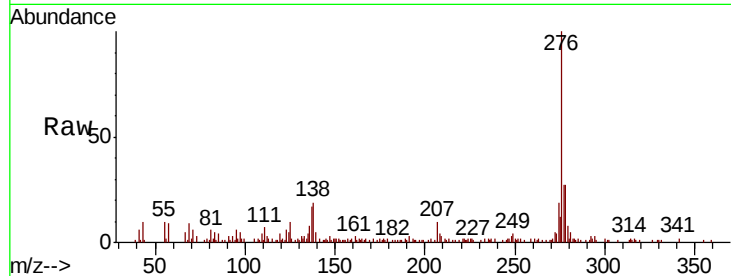
#91
Dibenzo(a,h)anthracene
Concen: 2.339 ng
RT: 17.07 min Scan# 2548
Delta R.T. 0.02 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :
EO-O1-122719DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.7	11.5	17.3#
279	31.0	18.3	27.5#

Manual Integrations
APPROVED

mohammad
1/2/2020 11:50:22 AM



#92
Benzo(g,h,i)perylene
Concen: 7.338 ng
RT: 17.53 min Scan# 2625
Delta R.T. 0.04 min
Lab File: BF118419.D
Acq: 31 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.1	28.7
138	19.9	16.1	24.1

