

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP111119\
 Data File : BP001037.D
 Acq On : 12 Nov 2019 01:38
 Operator : JU
 Sample : K5777-03DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 AOC-7-MIDDLE-(10)DL

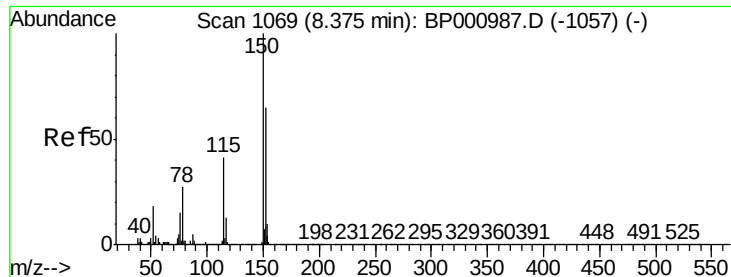
Manual Integrations
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Quant Time: Nov 12 10:40:45 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP110619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 06 17:07:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.38	152	228710	20.00	ng	0.00
21) Naphthalene-d8	10.42	136	794488	20.00	ng	0.01
39) Acenaphthene-d10	13.27	164	439069	20.00	ng	0.00
64) Phenanthrene-d10	15.67	188	769274	20.00	ng	0.02
76) Chrysene-d12	19.32	240	582269	20.00	ng	0.02
87) Perylene-d12	21.10	264	545094	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	6.30	112	239894	19.09	ng	0.00
7) Phenol-d6	7.81	99	315080	19.83	ng	0.00
23) Nitrobenzene-d5	9.25	82	171136	11.92	ng	0.00
42) 2,4,6-Tribromophenol	14.57	330	85800	16.37	ng	0.01
45) 2-Fluorobiphenyl	12.18	172	326673	11.21	ng	0.00
79) Terphenyl-d14	17.95	244	359940	12.30	ng	0.00
Target Compounds						
31) Naphthalene	10.48	128	19056559	480.082	ng	Qvalue # 90
37) 2-Methylnaphthalene	11.59	142	5190954	186.838	ng	96
38) 1-Methylnaphthalene	11.75	142	4713996	179.567	ng	98
46) 1,1'-Biphenyl	12.35	154	1261085	38.412	ng	98
49) Acenaphthylene	13.05	152	2125190	52.893	ng	# 95
52) Acenaphthene	13.34	154	2305407	95.934	ng	96
55) Dibenzofuran	13.62	168	969446	25.828	ng	# 89
58) Fluorene	14.20	166	4633827	155.121	ng	96
71) Phenanthrene	15.75	178	17140109m	435.334	ng	
72) Anthracene	15.81	178	4792527	124.779	ng	98
73) Carbazole	16.03	167	132875	3.773	ng	# 80
75) Fluoranthene	17.43	202	6806679	152.950	ng	98
78) Pyrene	17.75	202	9800894	238.178	ng	95
81) Benzo(a)anthracene	19.31	228	3812205	97.212	ng	94
83) Chrysene	19.36	228	3115012	90.477	ng	97
86) Indeno(1,2,3-cd)pyrene	22.77	276	694702m	14.747	ng	
88) Benzo(b)fluoranthene	20.62	252	2214128m	68.143	ng	
89) Benzo(k)fluoranthene	20.64	252	538319m	17.600	ng	
90) Benzo(a)pyrene	21.04	252	2162019	72.362	ng	97
91) Dibenzo(a,h)anthracene	22.79	278	230907	7.572	ng	94
92) Benzo(g,h,i)perylene	23.27	276	622408	20.271	ng	95

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.38 min Scan# 1070

Delta R.T. 0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

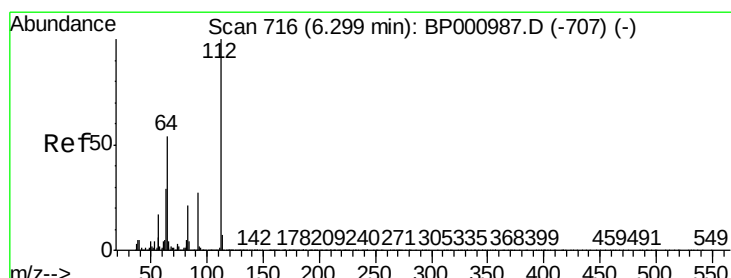
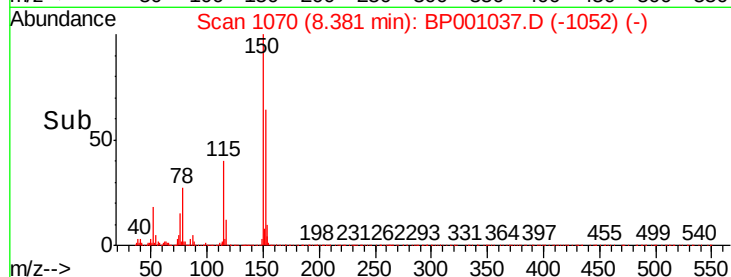
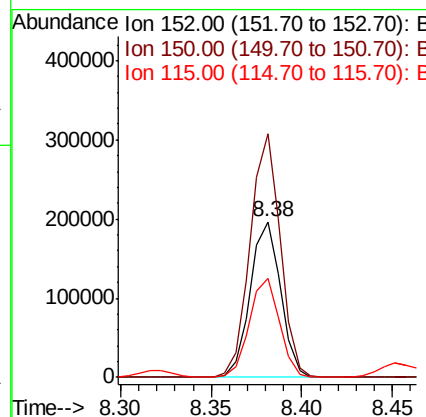
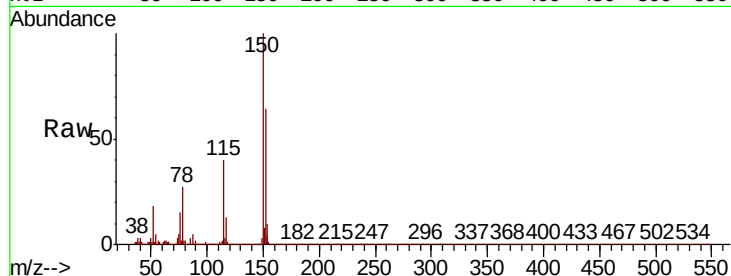
ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:	152	Resp:	228710
Ion Ratio	Lower	Upper	
152	100		
150	156.6	123.6	185.4
115	63.3	50.1	75.1

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#5

2-Fluorophenol

Concen: 19.092 ng

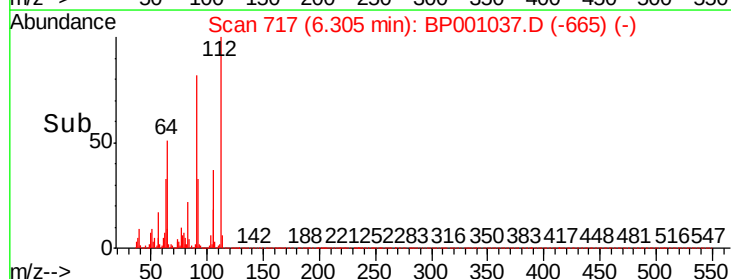
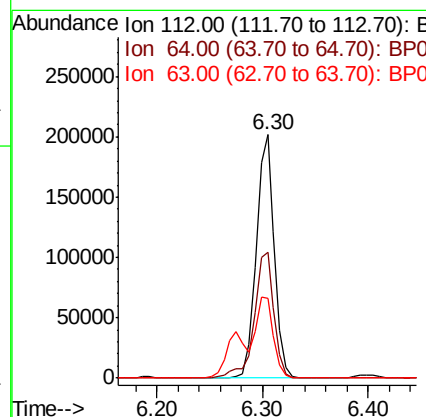
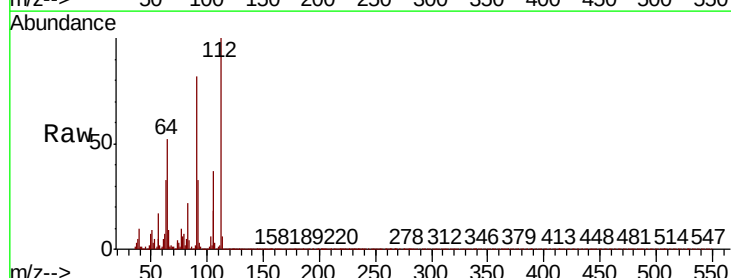
RT: 6.30 min Scan# 717

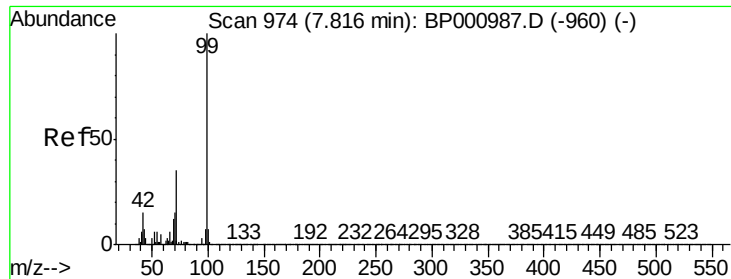
Delta R.T. 0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Tgt Ion:	112	Resp:	239894
Ion Ratio	Lower	Upper	
112	100		
64	51.6	43.4	65.0
63	32.8	23.4	35.0





#7

Phenol-d6

Concen: 19.829 ng

RT: 7.81 min Scan# 973

Delta R.T. -0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

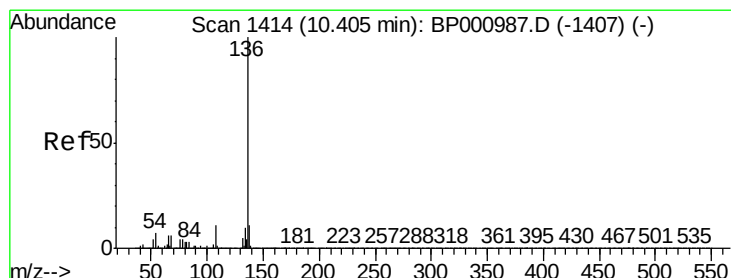
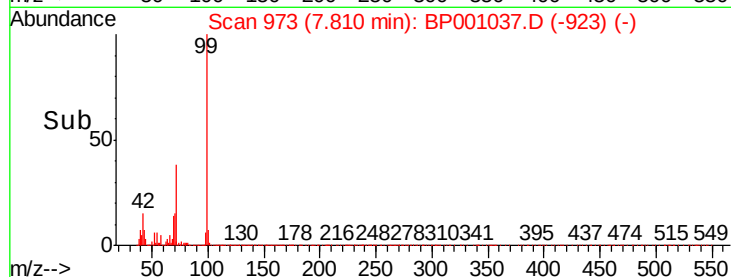
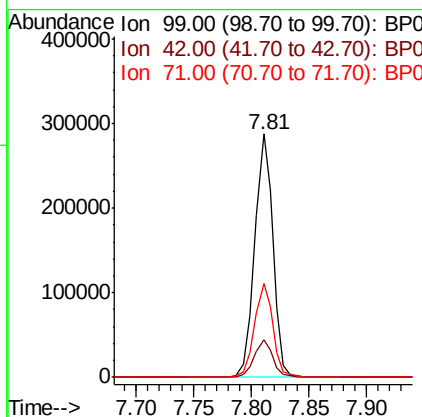
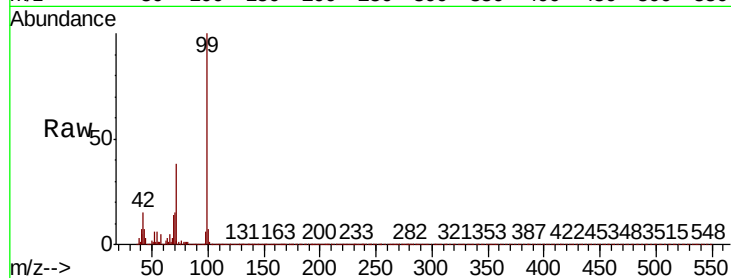
ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:	99	Resp:	315080
Ion Ratio	Lower	Upper	
99	100		
42	15.2	11.6	17.4
71	38.4	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

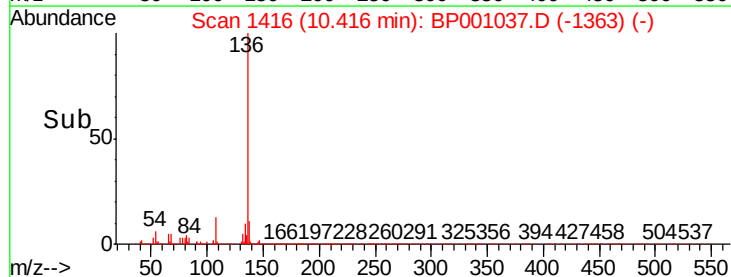
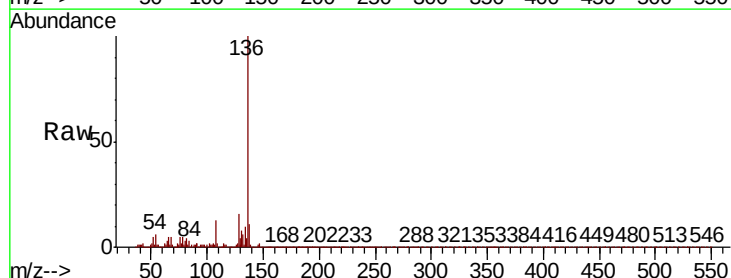
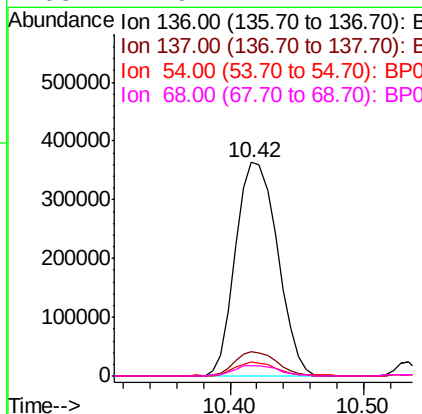
RT: 10.42 min Scan# 1416

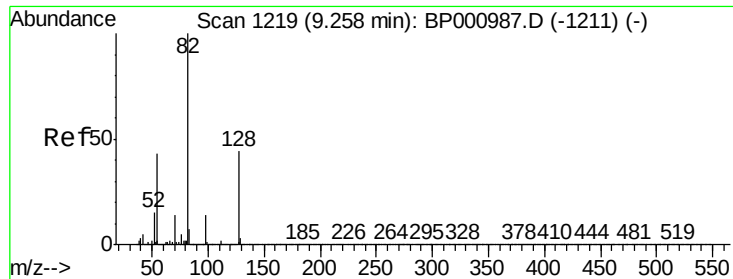
Delta R.T. 0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Tgt Ion:	136	Resp:	794488
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.6
54	6.4	5.4	8.2
68	4.9	4.7	7.1





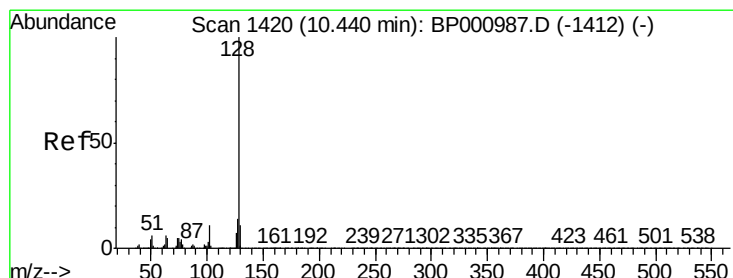
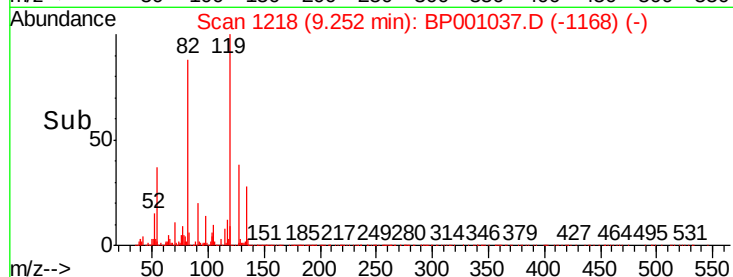
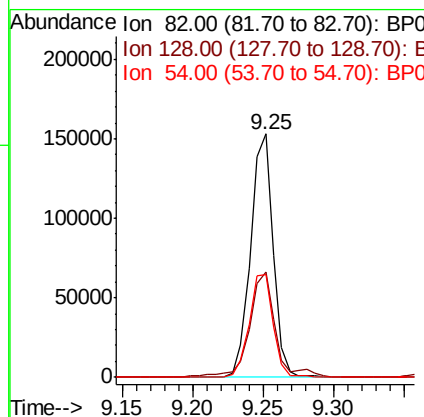
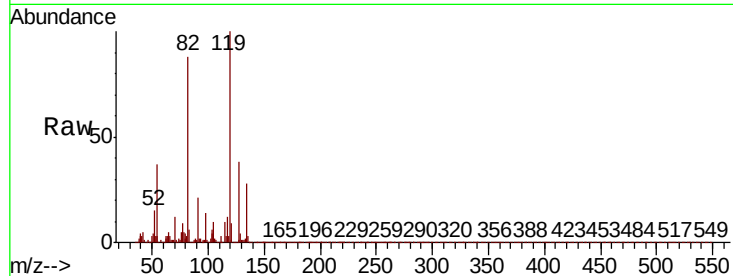
#23
Nitrobenzene-d5
Concen: 11.915 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.3	35.3	52.9
54	42.4	34.3	51.5

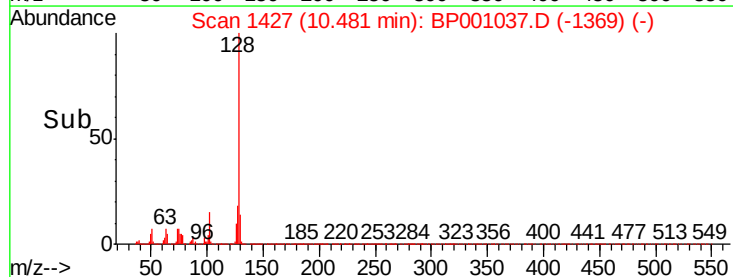
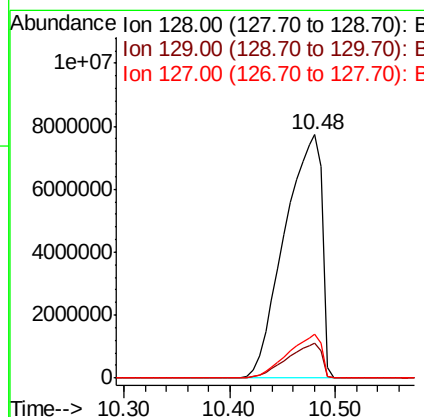
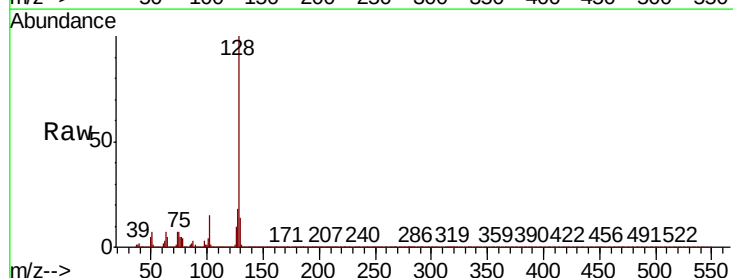
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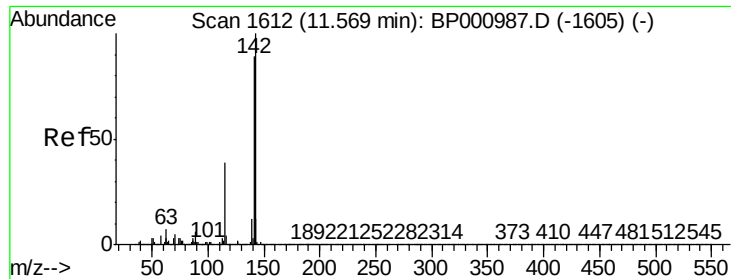
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#31
Naphthalene
Concen: 480.082 ng
RT: 10.48 min Scan# 1427
Delta R.T. 0.04 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.2	8.7	13.1#
127	18.0	10.8	16.2#





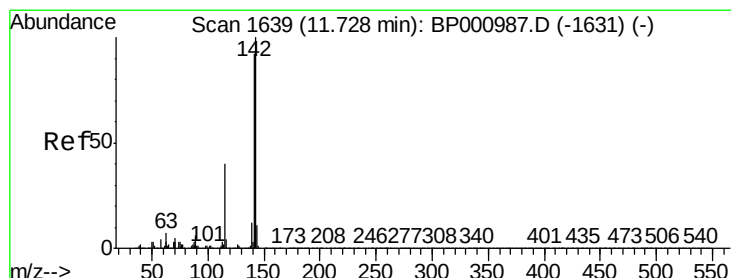
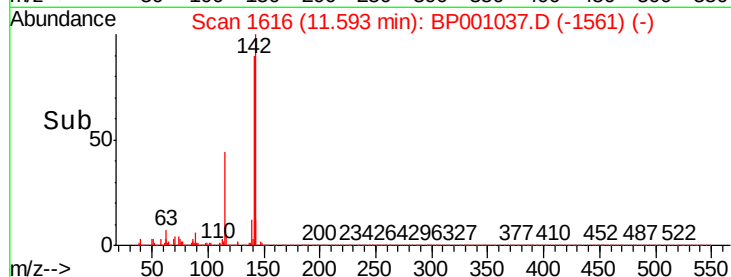
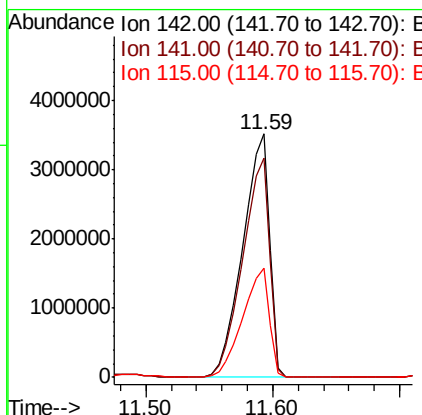
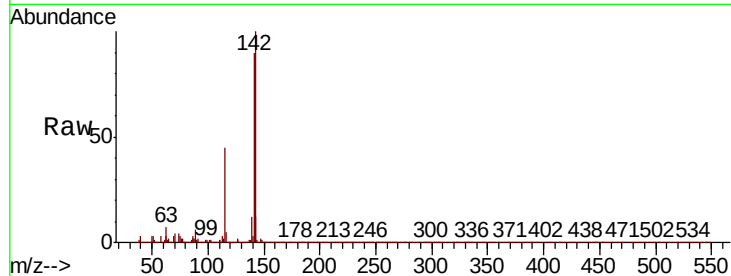
#37
2-Methylnaphthalene
Concen: 186.838 ng
RT: 11.59 min Scan# 1616
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.5	107.3
115	44.7	30.8	46.2

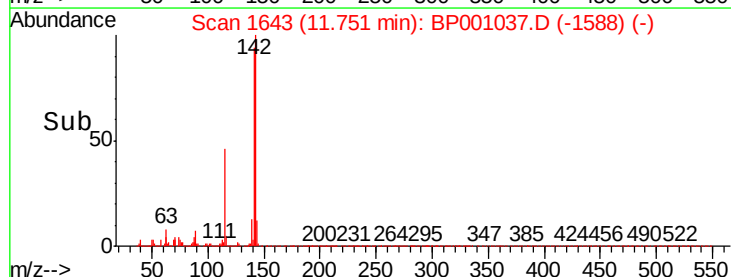
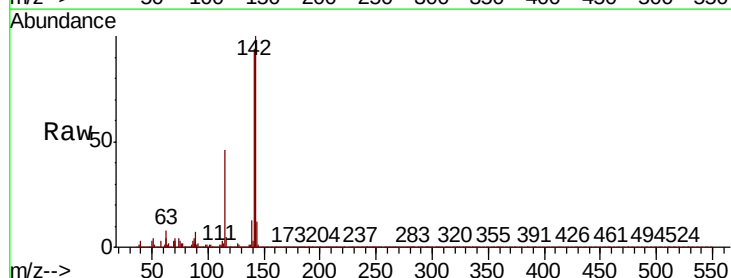
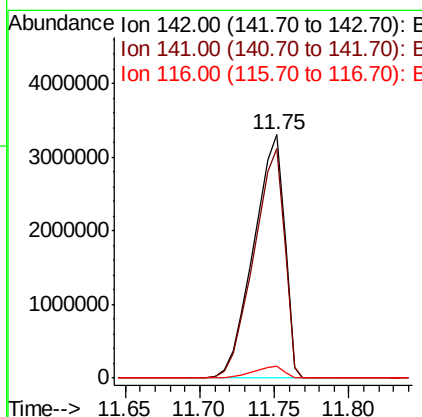
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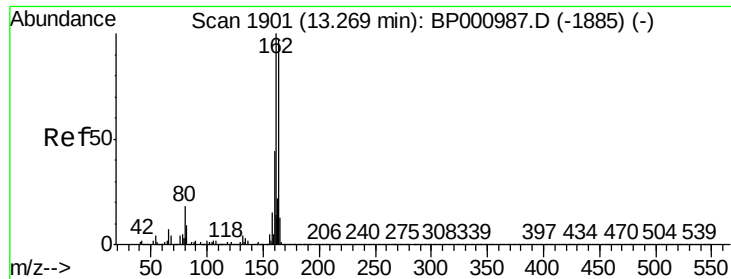
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#38
1-Methylnaphthalene
Concen: 179.567 ng
RT: 11.75 min Scan# 1643
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.2	73.9	110.9
116	4.9	3.4	5.0





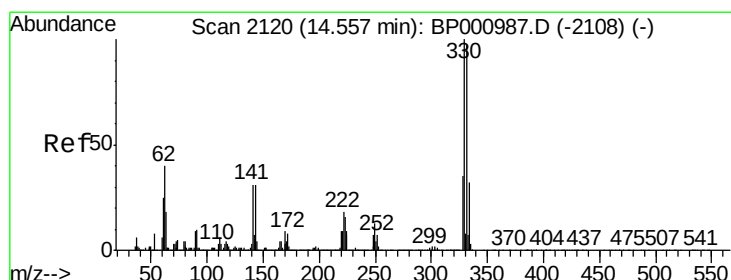
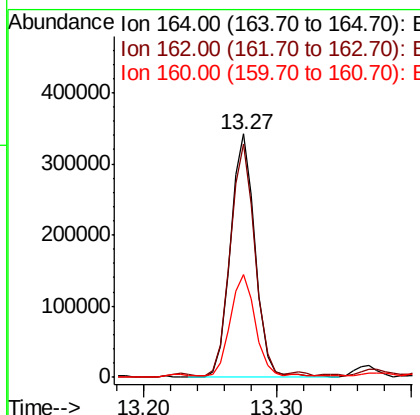
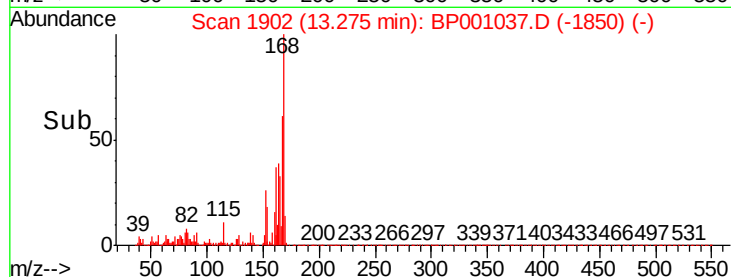
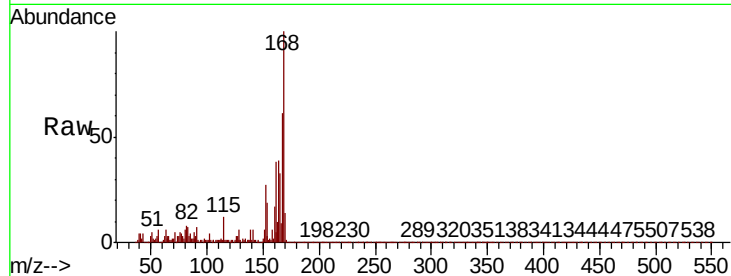
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 13.27 min Scan# 1902
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.0	82.6	123.8
160	42.3	36.5	54.7

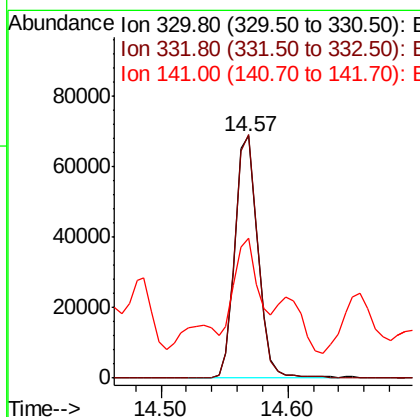
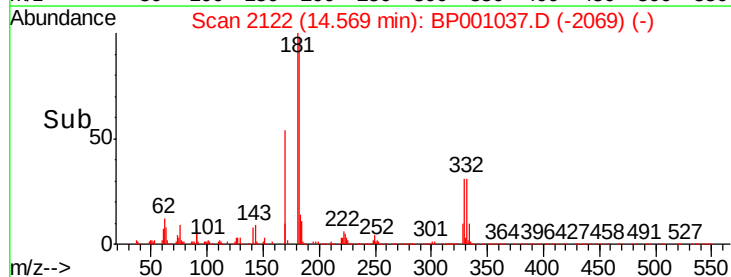
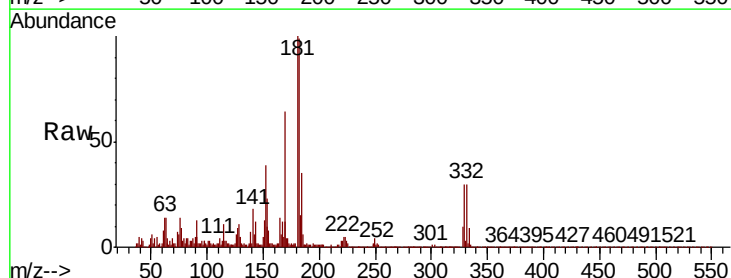
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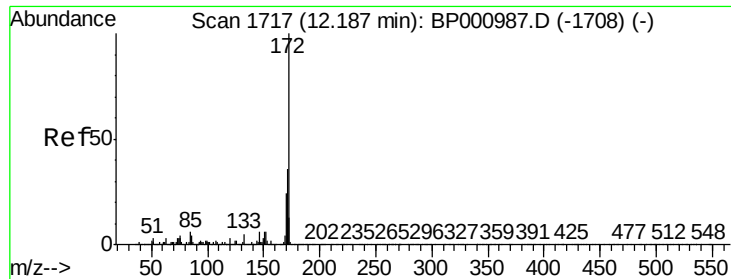
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#42
2,4,6-Tribromophenol
Concen: 16.369 ng
RT: 14.57 min Scan# 2122
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.8	78.3	117.5
141	46.4	25.0	37.4





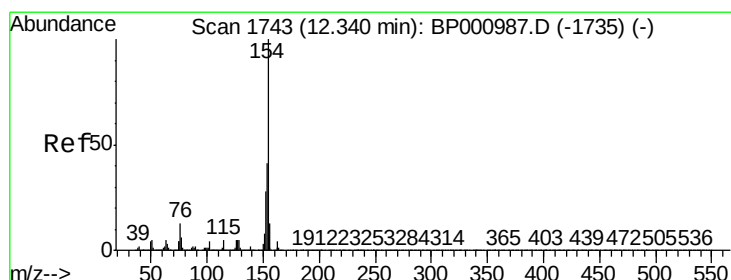
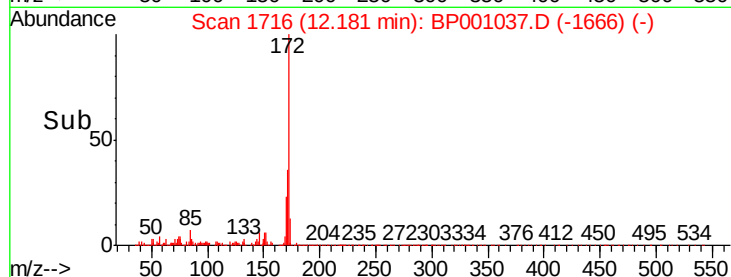
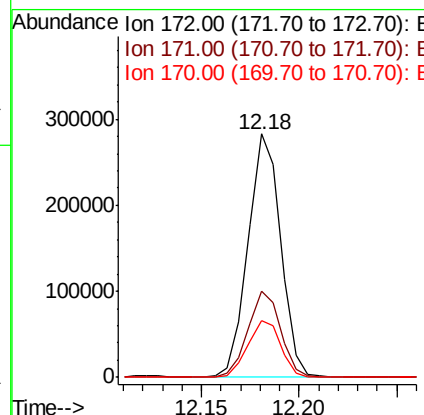
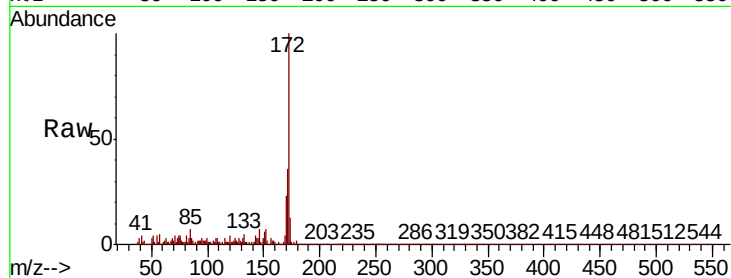
#45
2-Fluorobiphenyl
Concen: 11.206 ng
RT: 12.18 min Scan# 1716
Delta R.T. -0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.5	42.7
170	23.3	18.9	28.3

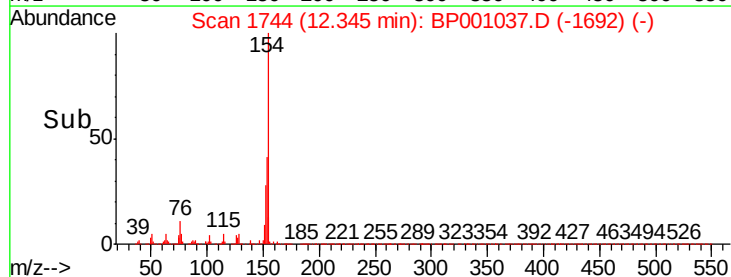
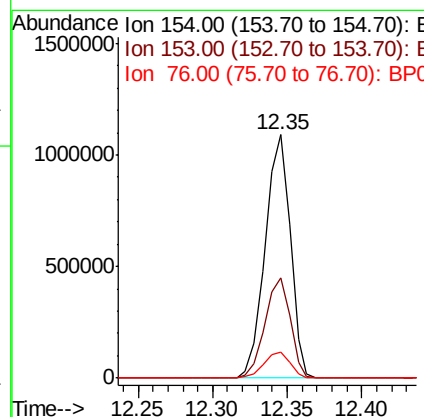
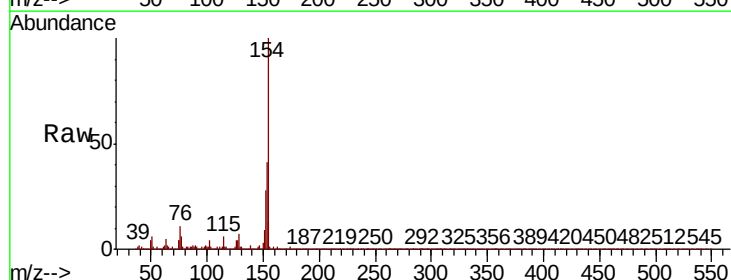
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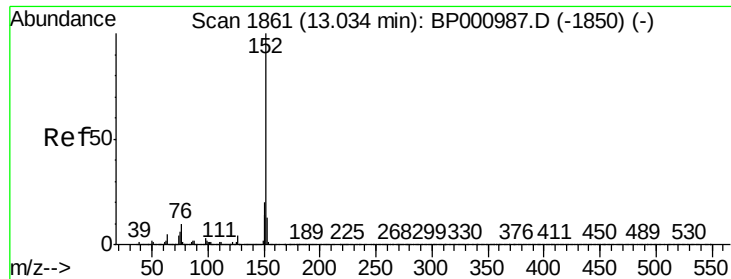
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#46
1,1'-Biphenyl
Concen: 38.412 ng
RT: 12.35 min Scan# 1744
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.3	20.9	60.9
76	10.8	0.0	32.5





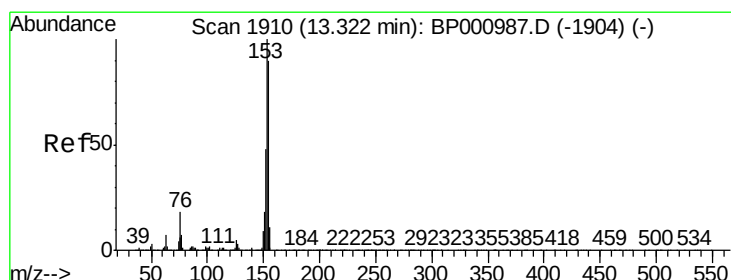
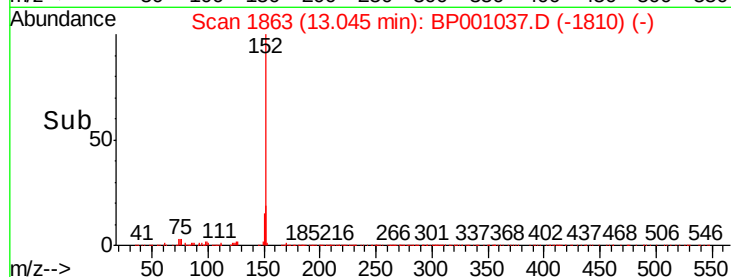
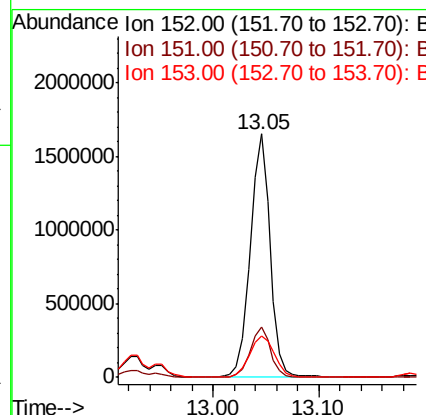
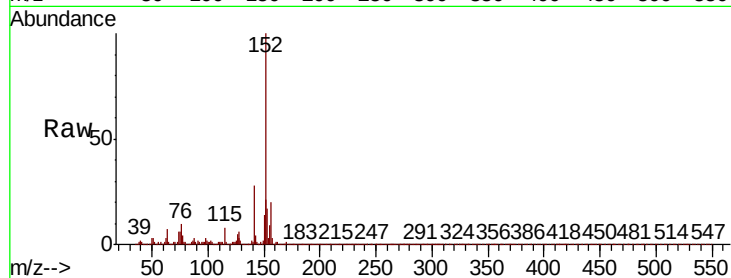
#49
Acenaphthylene
Concen: 52.893 ng
RT: 13.05 min Scan# 1863
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.0	24.0
153	16.8	10.6	16.0

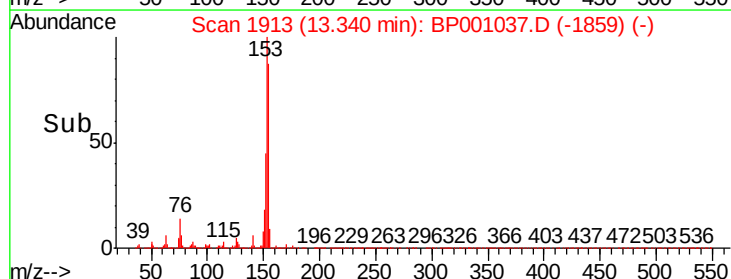
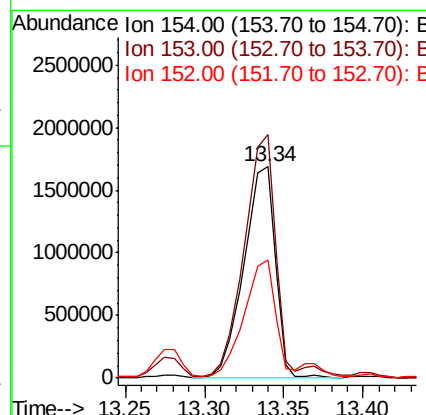
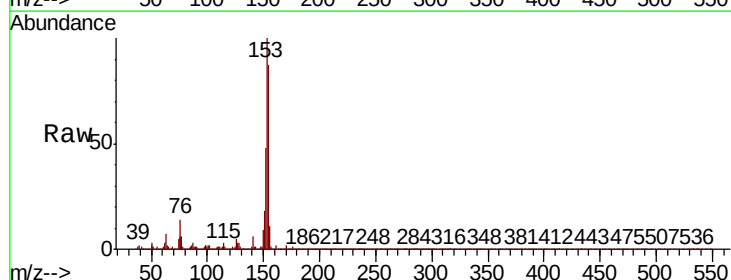
Manual Integrations
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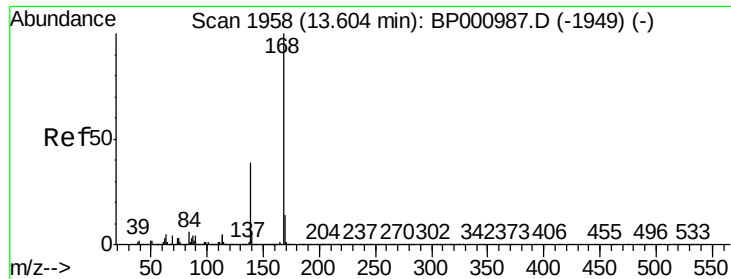
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#52
Acenaphthene
Concen: 95.934 ng
RT: 13.34 min Scan# 1913
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.1	88.9	133.3
152	55.6	42.4	63.6





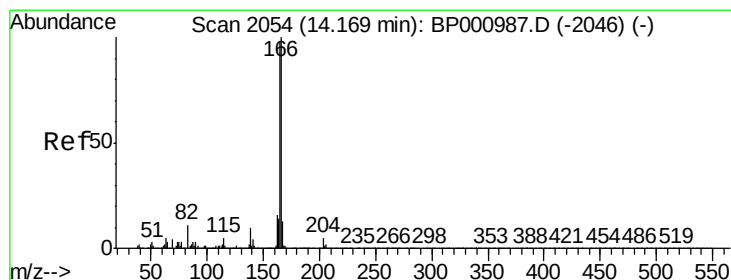
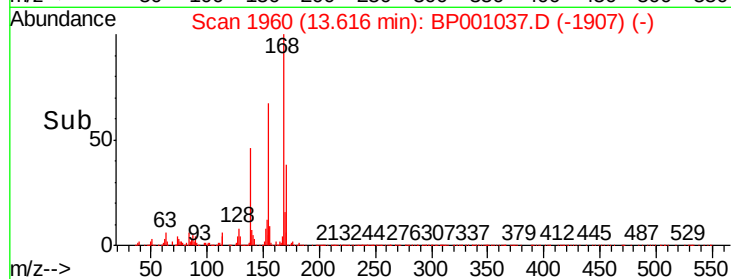
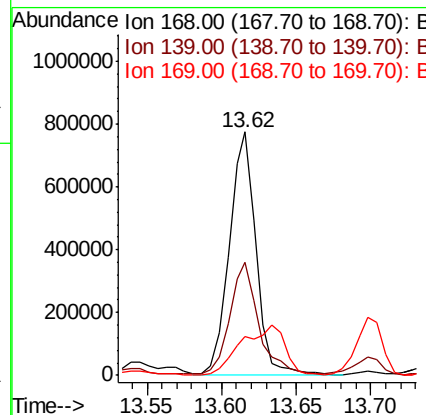
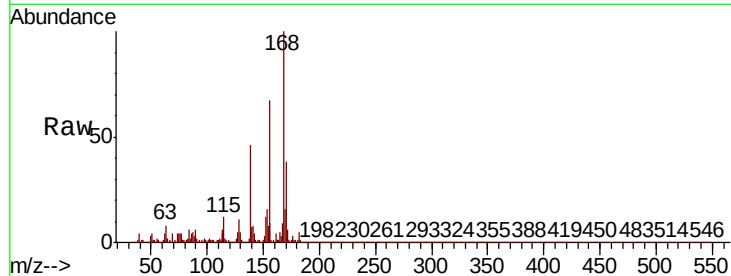
#55
Dibenzofuran
Concen: 25.828 ng
RT: 13.62 min Scan# 1960
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	46.5	30.9	46.3#
169	15.8	10.9	16.3

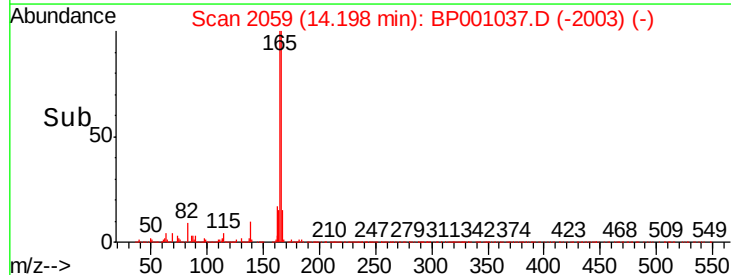
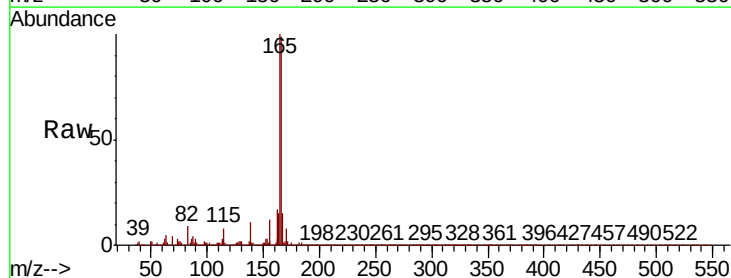
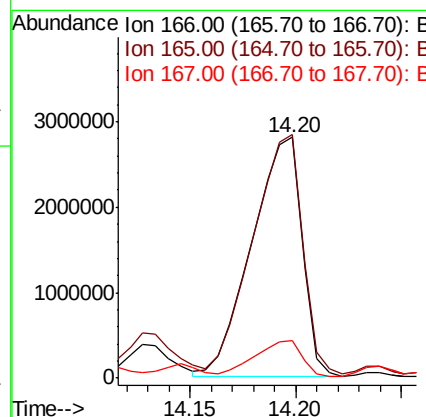
Manual Integrations
APPROVED

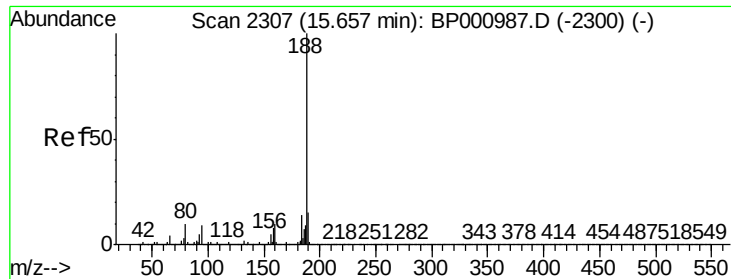
mohammad
11/12/2019 5:05:07 PM



#58
Fluorene
Concen: 155.121 ng
RT: 14.20 min Scan# 2059
Delta R.T. 0.03 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.2	78.2	117.2
167	15.5	10.7	16.1





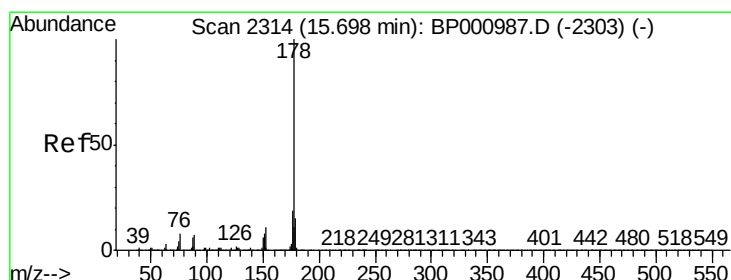
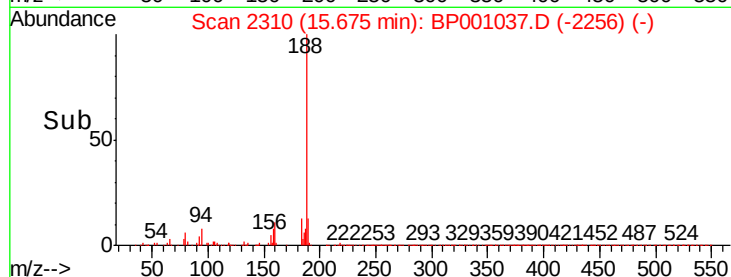
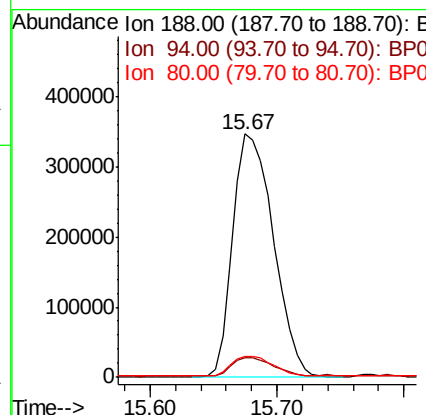
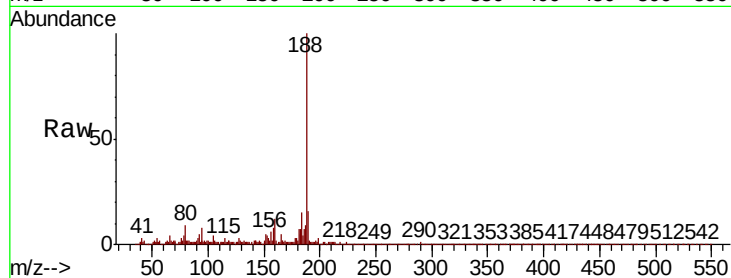
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 15.67 min Scan# 2310
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
188	100		
94	8.2	7.4	11.2
80	8.7	7.9	11.9

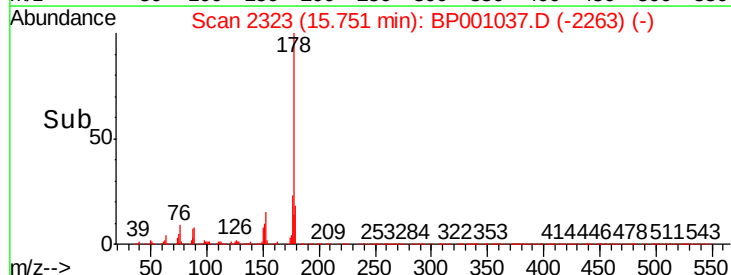
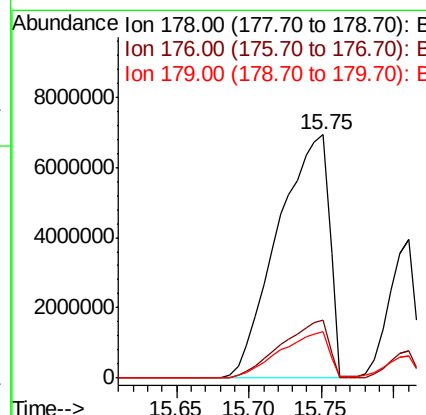
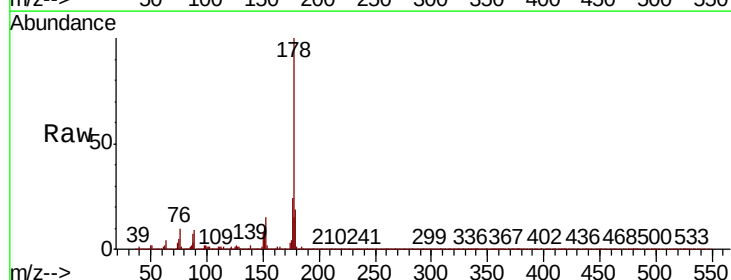
Manual Integrations
APPROVED

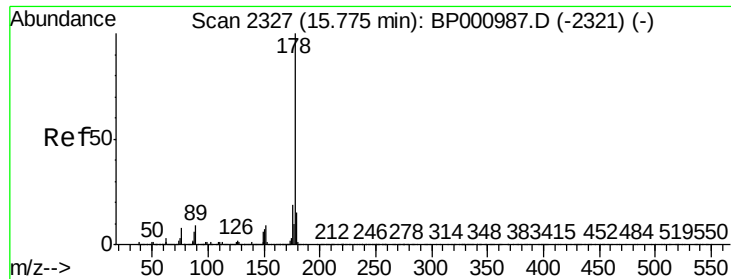
mohammad
11/12/2019 5:05:07 PM



#71
Phenanthrene
Concen: 435.334 ng m
RT: 15.75 min Scan# 2323
Delta R.T. 0.05 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	23.6	15.5	23.3#
179	18.9	12.3	18.5#





#72

Anthracene

Concen: 124.779 ng

RT: 15.81 min Scan# 2333

Delta R.T. 0.04 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:178 Resp: 4792527

Ion Ratio Lower Upper

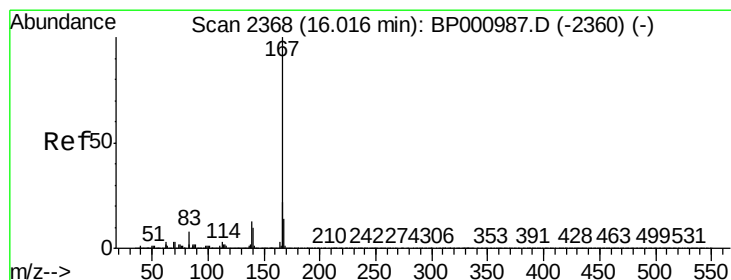
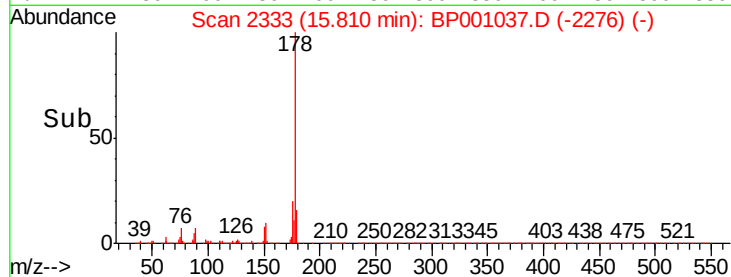
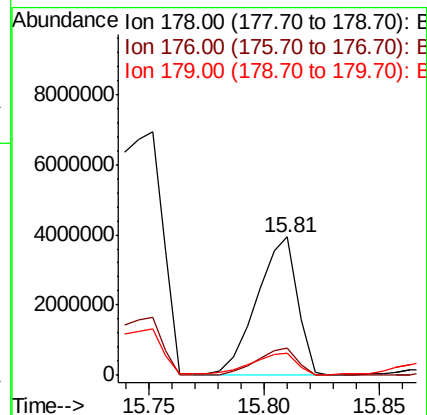
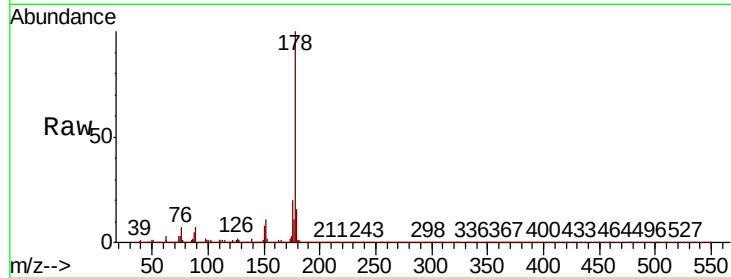
178 100

176 20.0 15.1 22.7

179 16.4 12.3 18.5

Manual Integrations
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#73

Carbazole

Concen: 3.773 ng

RT: 16.03 min Scan# 2370

Delta R.T. 0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

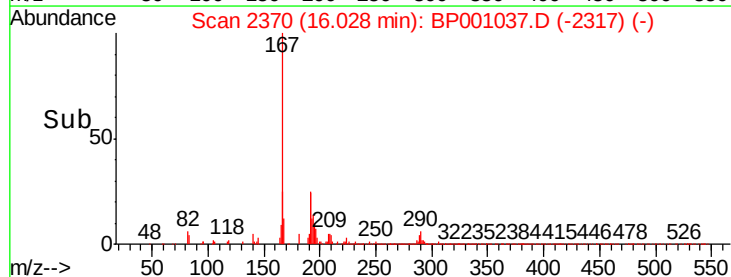
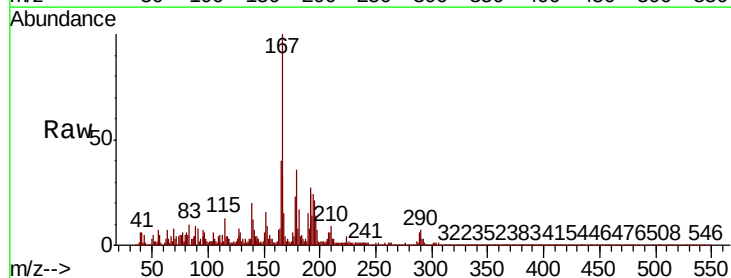
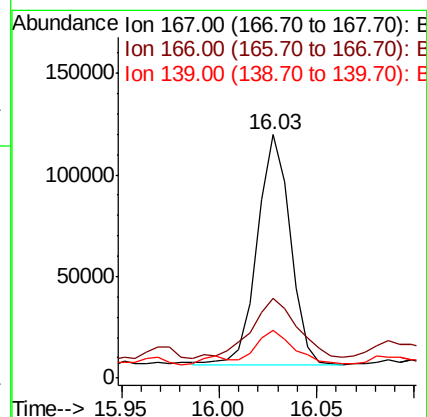
Tgt Ion:167 Resp: 132875

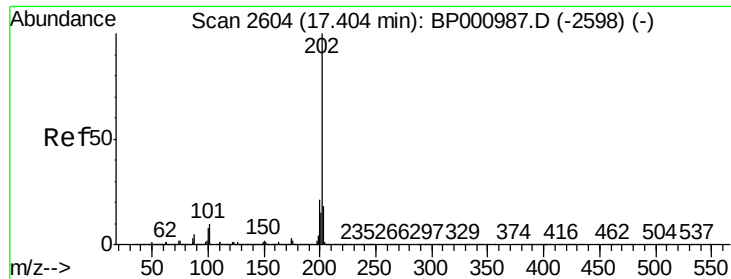
Ion Ratio Lower Upper

167 100

166 32.6 17.6 26.4#

139 19.6 10.6 15.8#





#75

Fluoranthene

Concen: 152.950 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.03 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

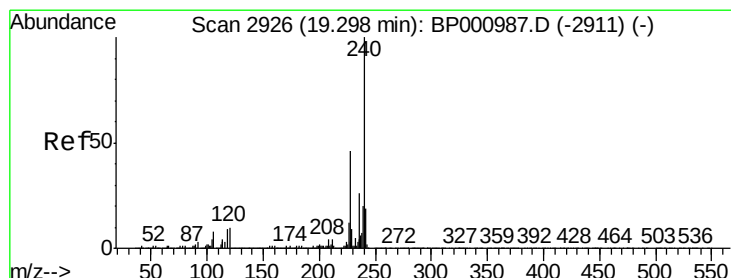
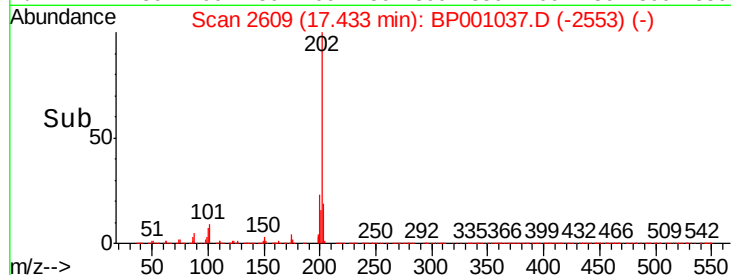
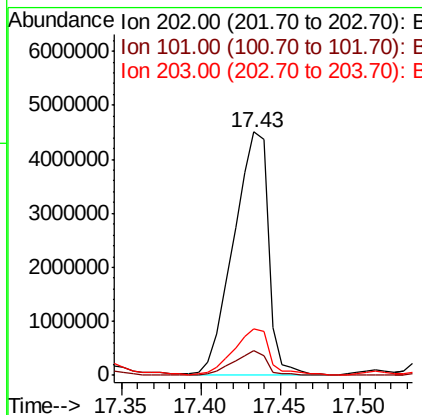
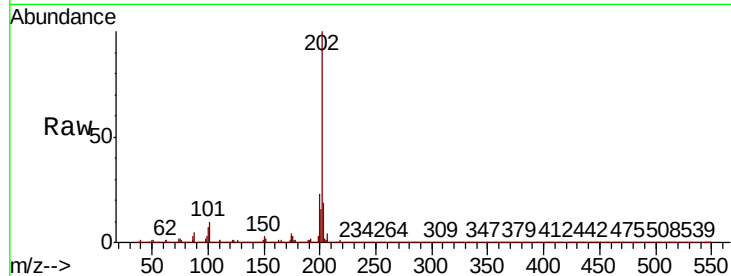
ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:	202	Resp:	6806679
Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	30.1
203	19.1	0.0	37.7

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

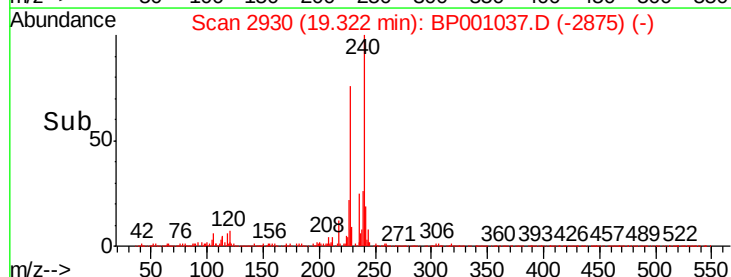
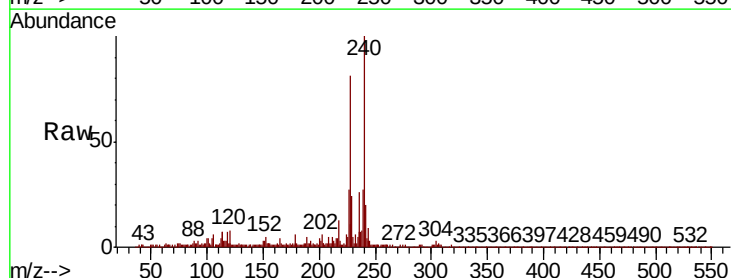
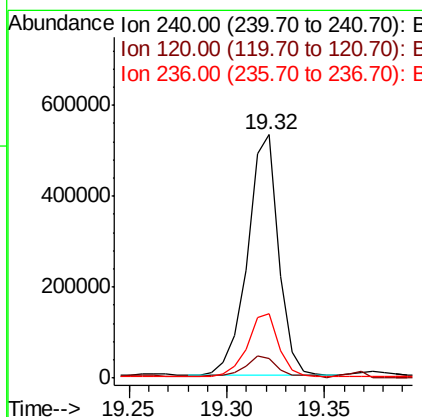
RT: 19.32 min Scan# 2930

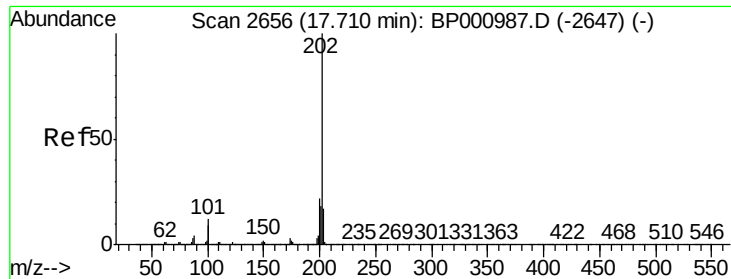
Delta R.T. 0.02 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Tgt Ion:	240	Resp:	582269
Ion	Ratio	Lower	Upper
240	100		
120	7.9	8.2	12.2#
236	26.2	20.5	30.7





#78

Pvrene

Concen: 238.178 ng

RT: 17.75 min Scan# 2663

Delta R.T. 0.04 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:202 Resp: 9800894

Ion Ratio Lower Upper

202 100

200 23.8 17.2 25.8

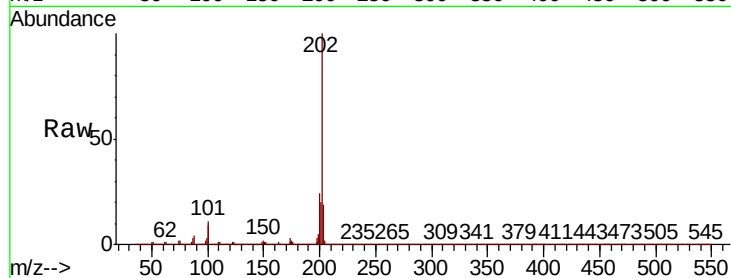
203 19.4 14.0 21.0

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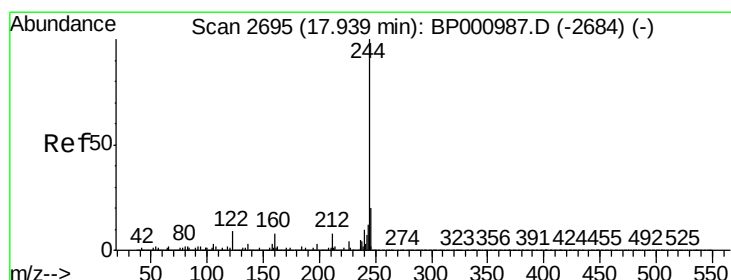
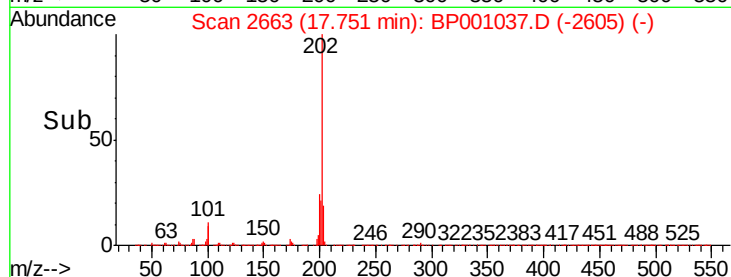
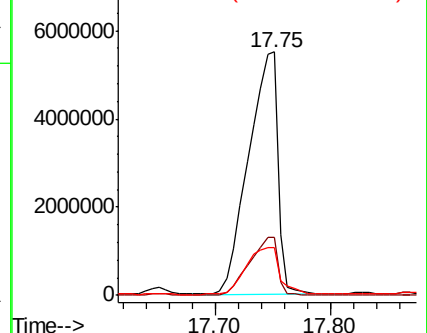
11/12/2019 5:05:07 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 12.296 ng

RT: 17.95 min Scan# 2696

Delta R.T. 0.01 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

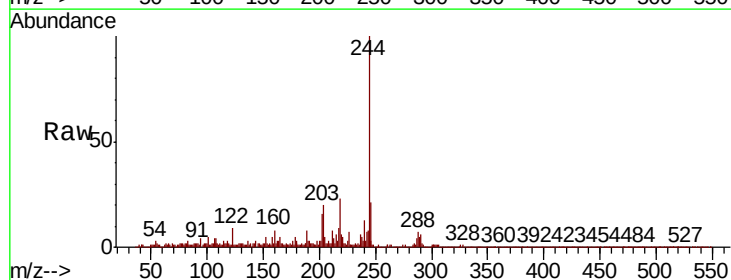
Tgt Ion:244 Resp: 359940

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

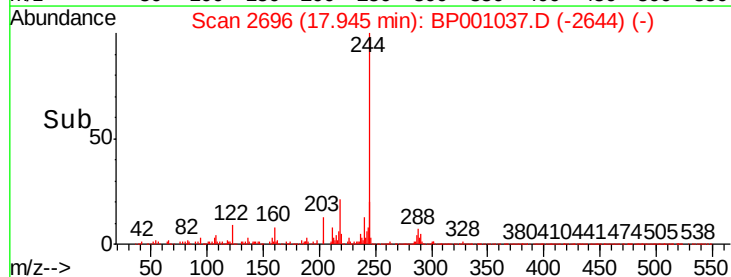
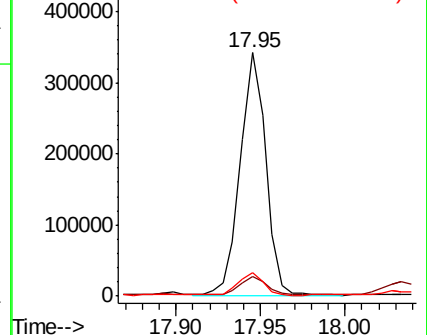
122 9.5 7.4 11.2

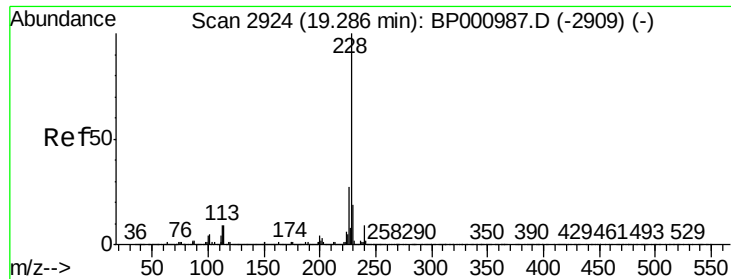


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





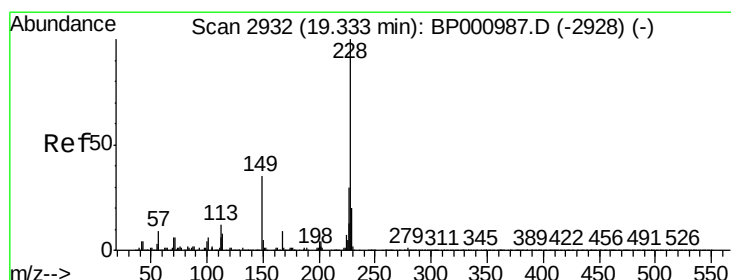
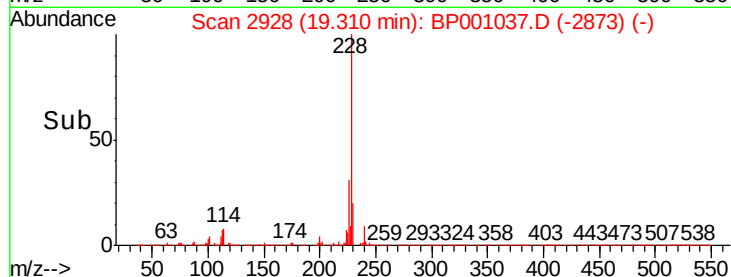
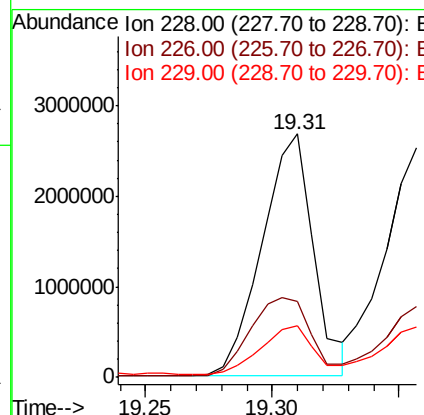
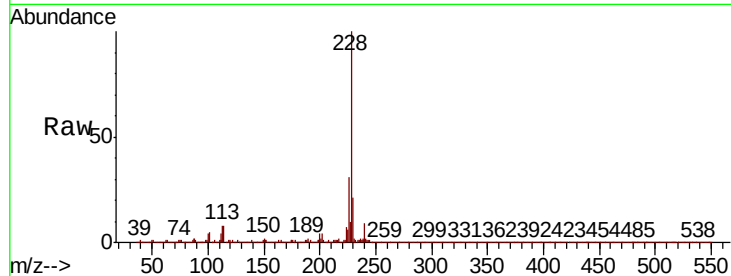
#81
Benzo(a)anthracene
Concen: 97.212 ng
RT: 19.31 min Scan# 2928
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	21.8	32.8
229	21.1	15.6	23.4

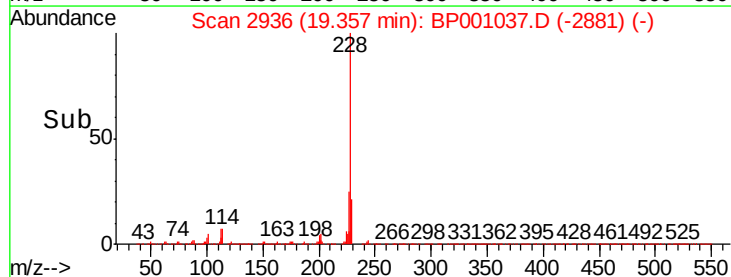
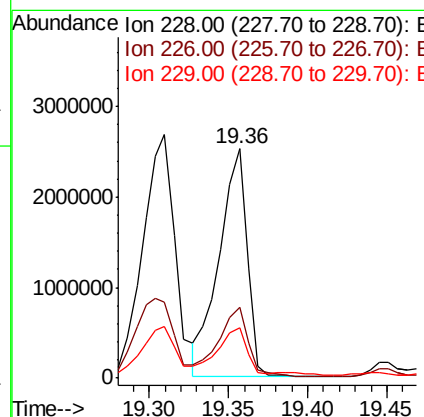
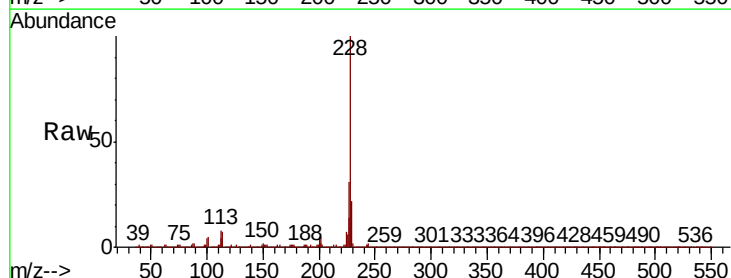
Manual Integrations
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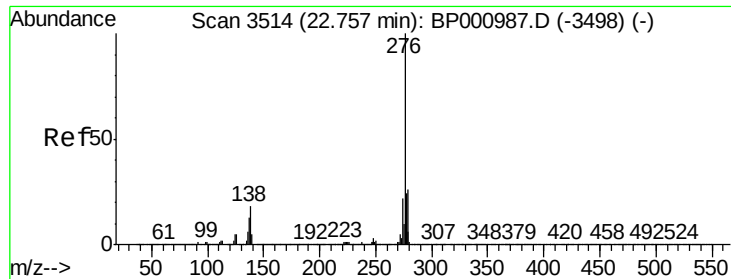
mohammad
11/12/2019 5:05:07 PM



#83
Chrysene
Concen: 90.477 ng
RT: 19.36 min Scan# 2936
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.2	36.2
229	21.7	15.8	23.6





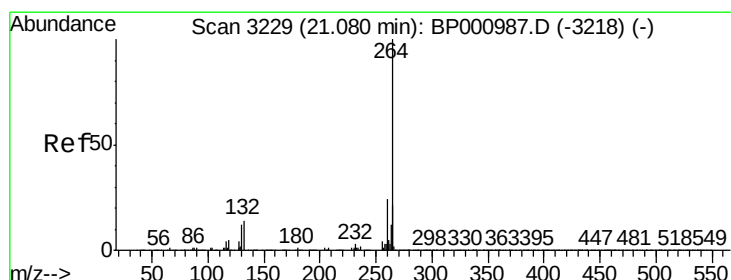
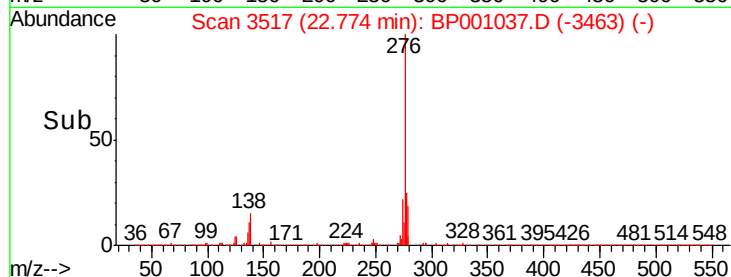
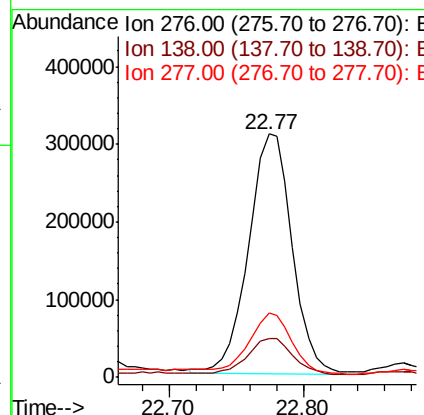
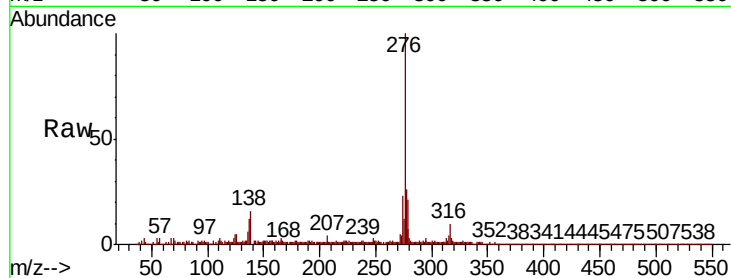
#86
Indeno(1,2,3-cd)pyrene
Concen: 14.747 ng
RT: 22.77 min Scan# 3517
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	3.8	17.6	26.4#
277	6.2	20.2	30.4#

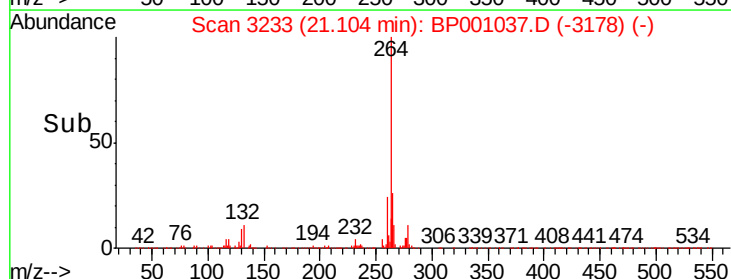
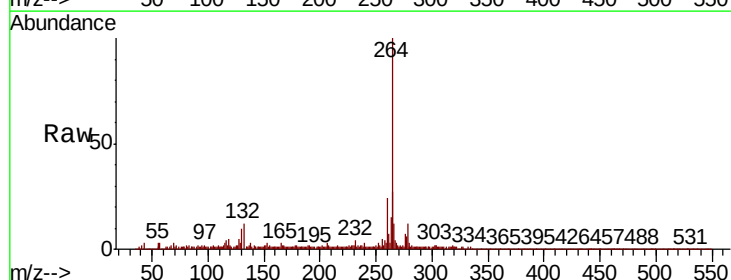
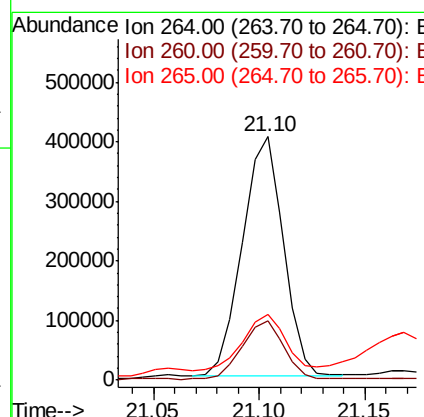
Manual Integrations
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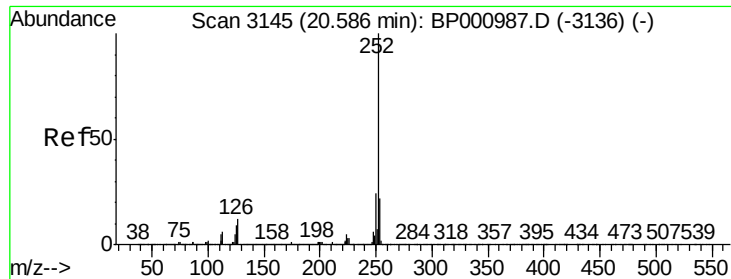
mohammad
11/12/2019 5:05:07 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 21.10 min Scan# 3233
Delta R.T. 0.02 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.8	28.2
265	27.1	17.1	25.7#





#88

Benzo(b)fluoranthene

Concen: 68.143 ng m

RT: 20.62 min Scan# 3150

Delta R.T. 0.03 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

Instrument :

BNA_P

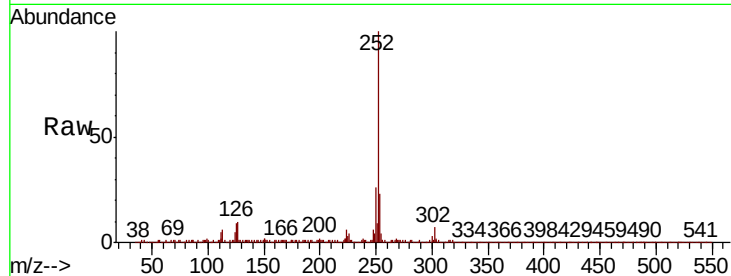
ClientSampleId :

AOC-7-MIDDLE-(10)DL

Tot Ion:	252	Resp:	2214128
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.9	26.9
125	9.3	7.3	10.9

Manual Integrations
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11/12/2019 5:05:07 PM

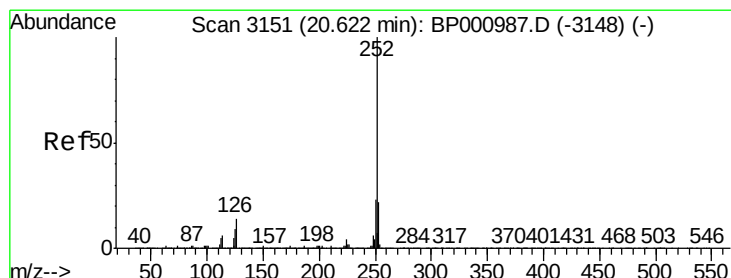
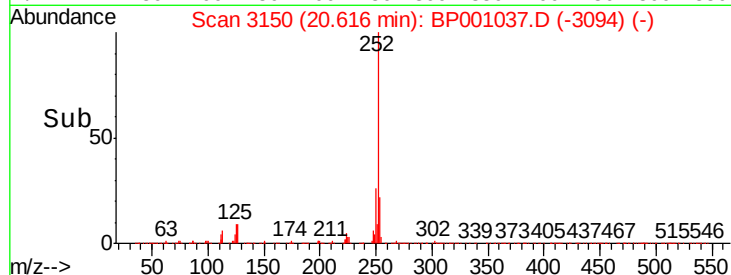
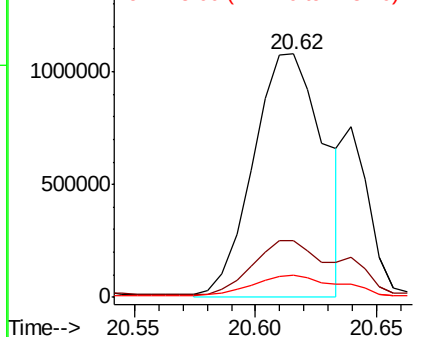


Abundance

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: 17.600 ng m

RT: 20.64 min Scan# 3154

Delta R.T. 0.02 min

Lab File: BP001037.D

Acq: 12 Nov 2019 01:38

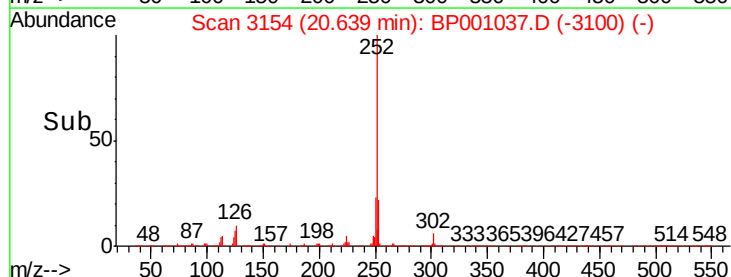
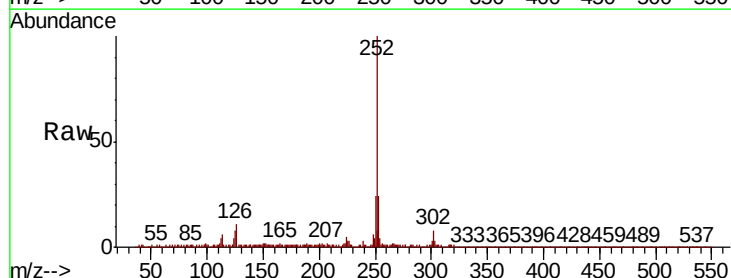
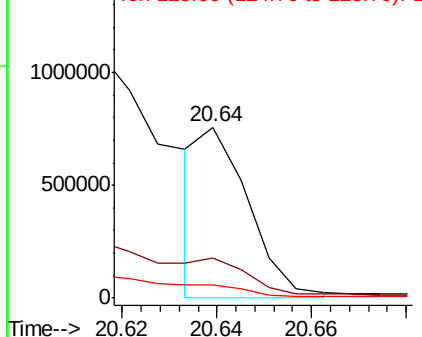
Tgt Ion:	252	Resp:	538319
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.7	26.5
125	8.1	7.3	10.9

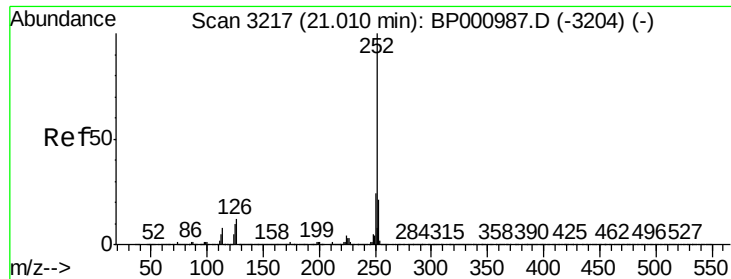
Abundance

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





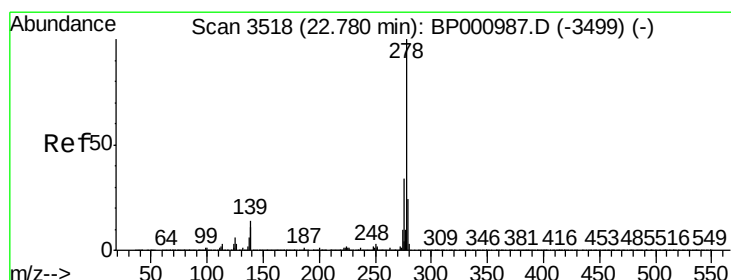
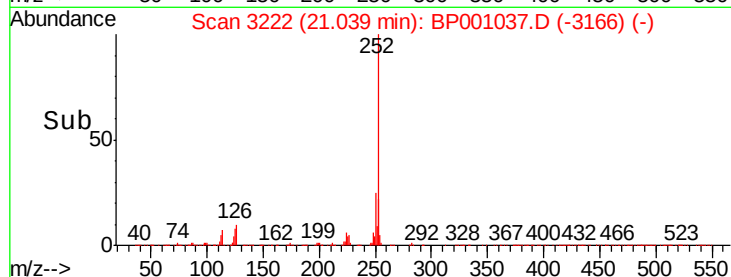
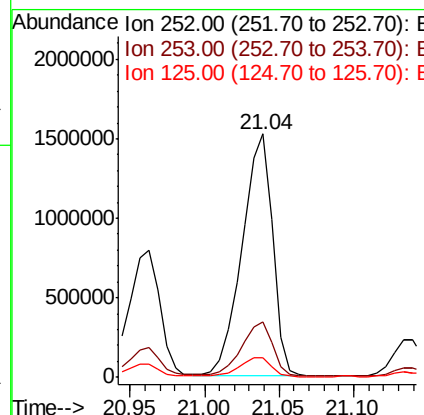
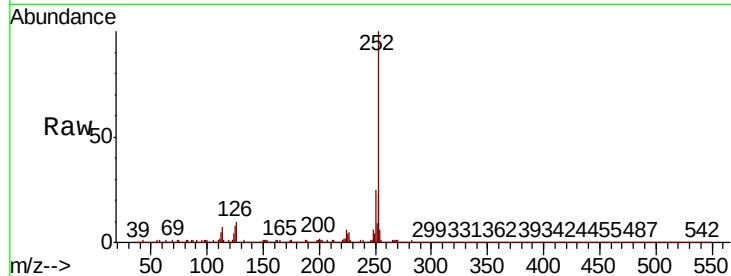
#90
Benzo(a)pyrene
Concen: 72.362 ng
RT: 21.04 min Scan# 3222
Delta R.T. 0.03 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Instrument :
BNA_P
ClientSampleId :
AOC-7-MIDDLE-(10)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	8.2	7.6	11.4

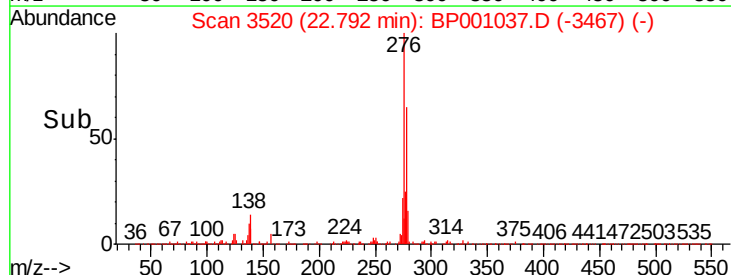
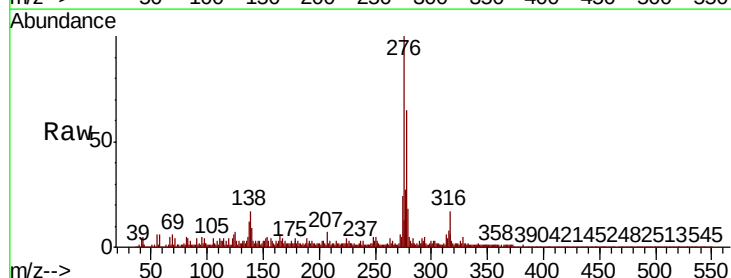
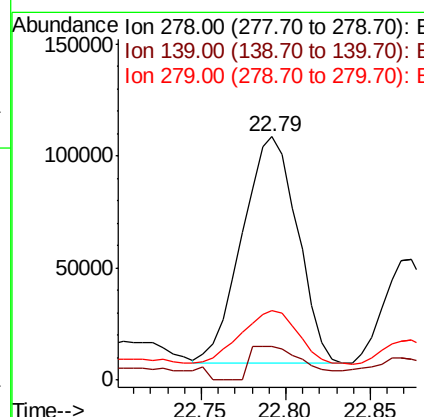
Manual Integrations
APPROVED

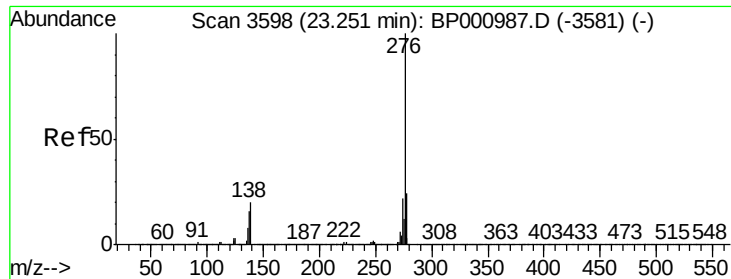
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 7.572 ng
RT: 22.79 min Scan# 3520
Delta R.T. 0.01 min
Lab File: BP001037.D
Acq: 12 Nov 2019 01:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.0	11.3	16.9
279	28.3	19.1	28.7





#92
 Benzo(a,h,i)perylene
 Concen: 20.271 ng
 RT: 23.27 min Scan# 3602
 Delta R.T. 0.02 min
 Lab File: BP001037.D
 Acq: 12 Nov 2019 01:38

Instrument :
 BNA_P
 ClientSampleId :
 AOC-7-MIDDLE-(10)DL

Tot Ion:	276	Resp:	622408
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.0	28.4
138	16.0	15.7	23.5

Manual Integrations
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