

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
 Data File : BP000376.D
 Acq On : 23 Sep 2019 21:30
 Operator : HP/JU
 Sample : K4997-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 WC-10-091919

Manual Integrations
 APPROVED

mohammad
 9/24/2019 2:38:54 PM

Quant Time: Sep 24 05:03:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP091619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 19 14:44:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	261971	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	911860	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	341140	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	691120	20.00	ng	0.00
76) Chrysene-d12	13.99	240	573500	20.00	ng	0.00
87) Perylene-d12	15.47	264	652448	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	1955025	128.83	ng	0.02
7) Phenol-d6	6.43	99	2528624	135.94	ng	0.01
23) Nitrobenzene-d5	7.35	82	1420014	100.47	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	598798	176.97	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	2857624	150.76	ng	0.00
79) Terphenyl-d14	12.93	244	2795409	102.26	ng	0.00

Target Compounds

						Qvalue
49) Acenaphthylene	9.69	152	164836	5.539	ng	99
50) Dimethylphthalate	9.55	163	173361	7.459	ng	98
71) Phenanthrene	11.35	178	539143	15.567	ng	99
72) Anthracene	11.40	178	144942	4.066	ng	99
75) Fluoranthene	12.55	202	846424	22.760	ng	97
78) Pyrene	12.78	202	968633	22.575	ng	99
81) Benzo(a)anthracene	13.98	228	440890m	12.170	ng	
83) Chrysene	14.02	228	477892	13.436	ng	96
86) Indeno(1,2,3-cd)pyrene	16.96	276	265862m	6.132	ng	
88) Benzo(b)fluoranthene	15.05	252	520648m	13.376	ng	
89) Benzo(k)fluoranthene	15.07	252	146829m	4.325	ng	
90) Benzo(a)pyrene	15.41	252	402224	11.357	ng	97
91) Dibenzo(a,h)anthracene	16.97	278	70489	2.135	ng	# 91
92) Benzo(a,h,i)perylene	17.40	276	276272	8.140	ng	97

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

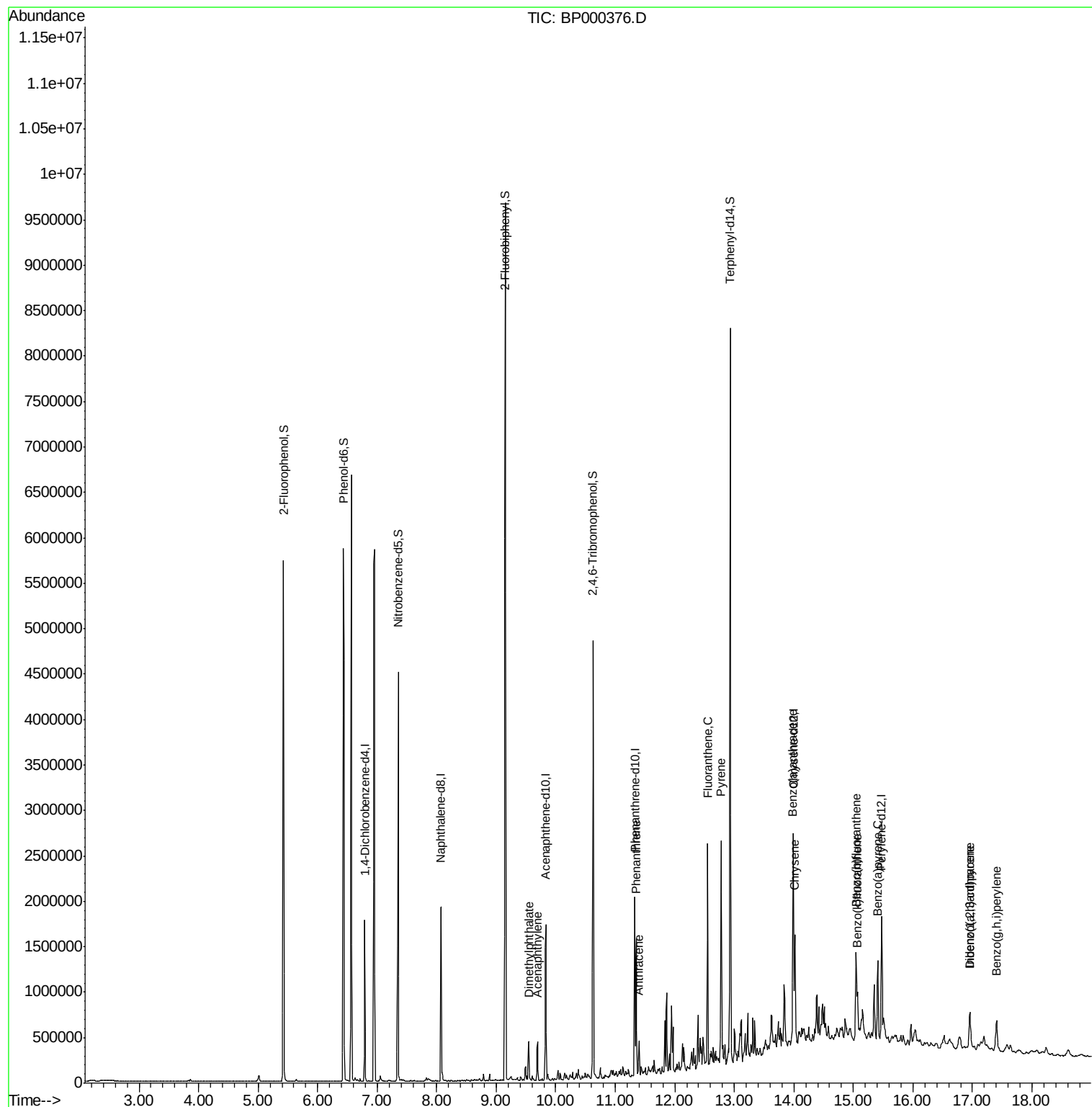
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

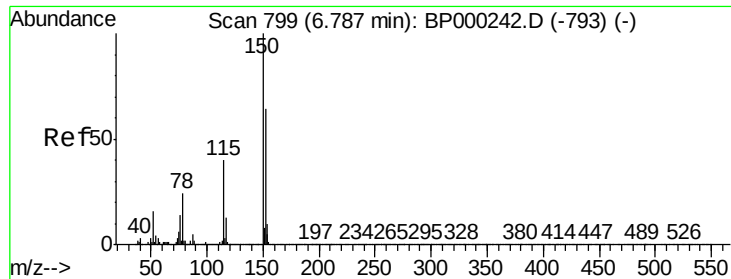
Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM

Quant Time: Sep 24 05:03:27 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 19 14:44:51 2019
Response via : Initial Calibration





#1

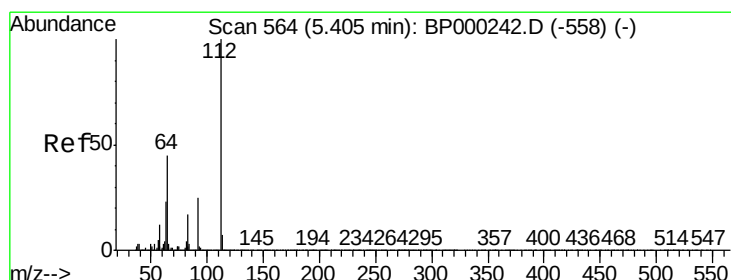
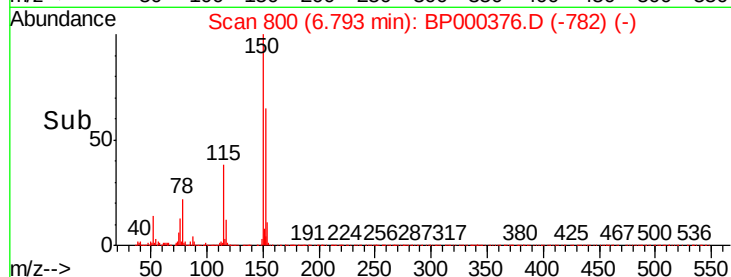
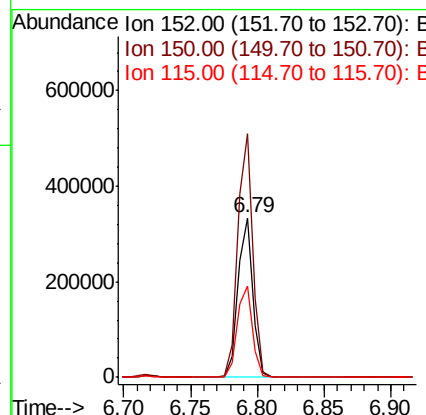
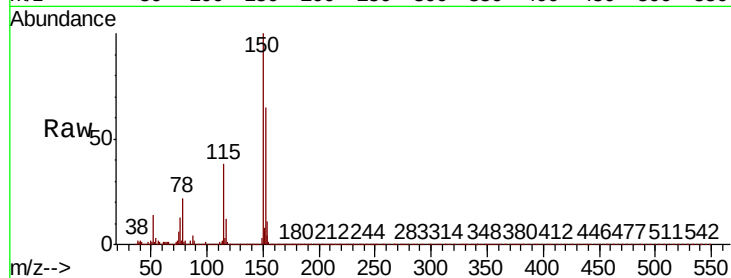
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.9	125.2	187.8
115	57.6	49.7	74.5

Manual Integrations
APPROVED

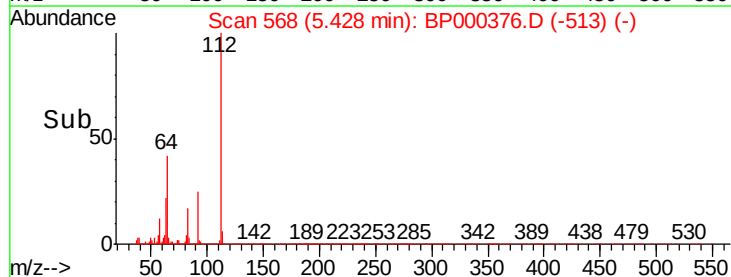
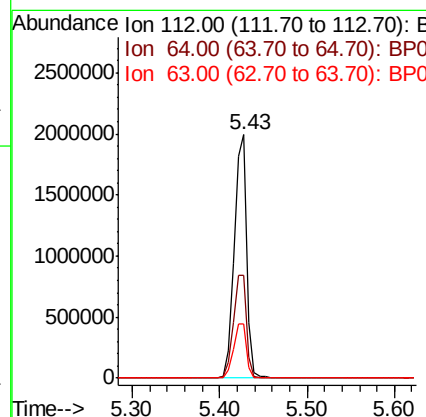
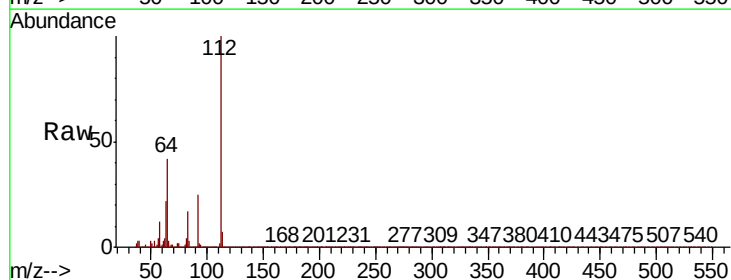
mohammad
9/24/2019 2:38:54 PM

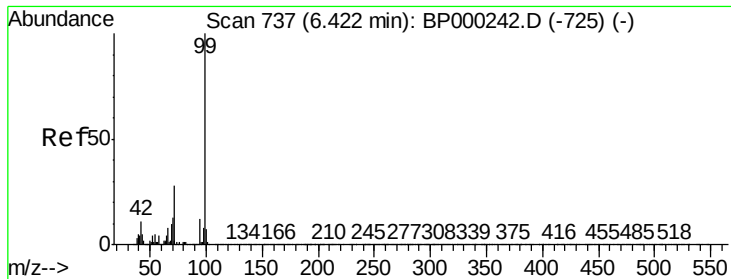


#5

2-Fluorophenol
Concen: 128.833 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.02 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.3	36.2	54.4
63	22.2	18.3	27.5





#7

Phenol-d6

Concen: 135.939 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.01 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Instrument :

BNA_P

ClientSampleId :

WC-10-091919

Tot Ion: 99 Resp: 2528624

Ion Ratio Lower Upper

99 100

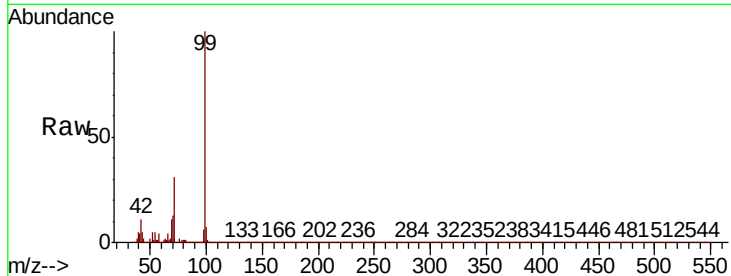
42 11.4 8.5 12.7

71 30.9 22.6 34.0

Manual Integrations
APPROVED

mohammad

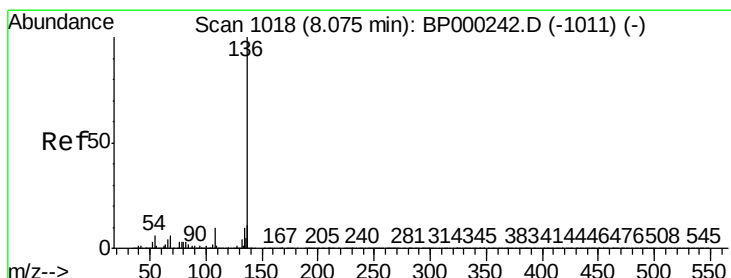
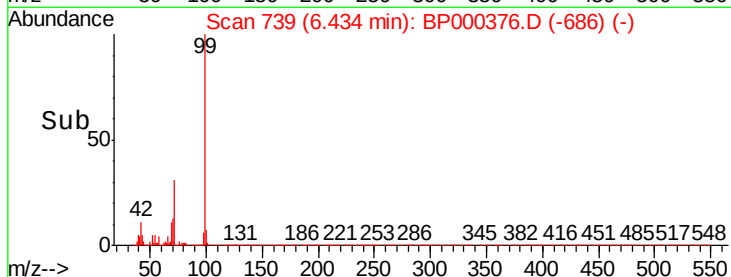
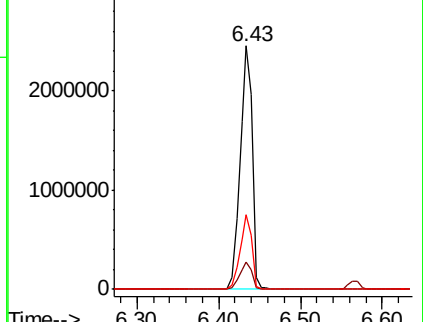
9/24/2019 2:38:54 PM



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Tgt Ion: 136 Resp: 911860

Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 5.2 4.5 6.7

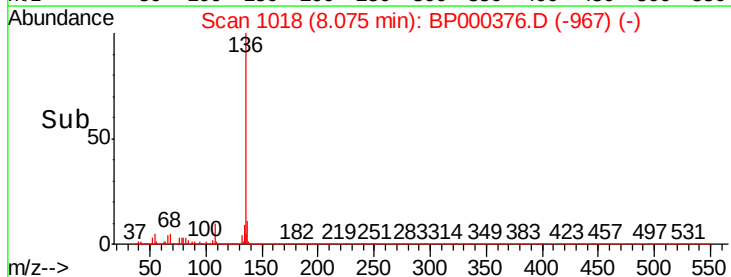
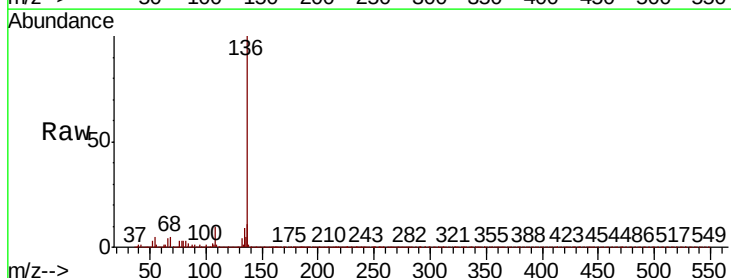
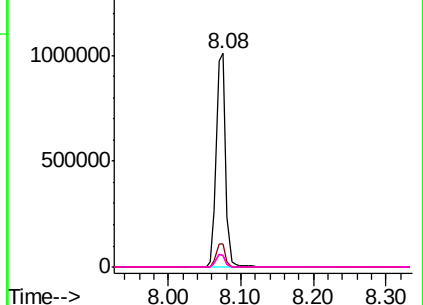
68 5.3 4.5 6.7

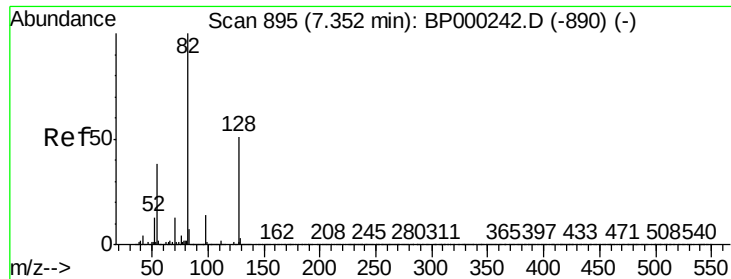
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0





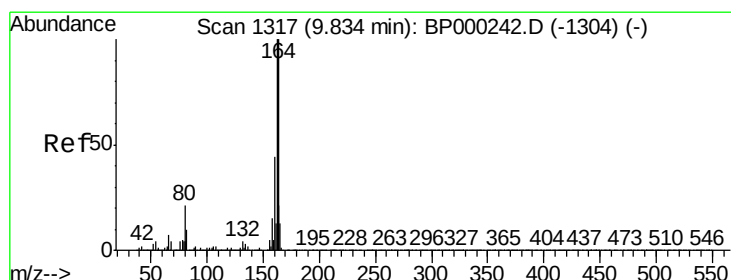
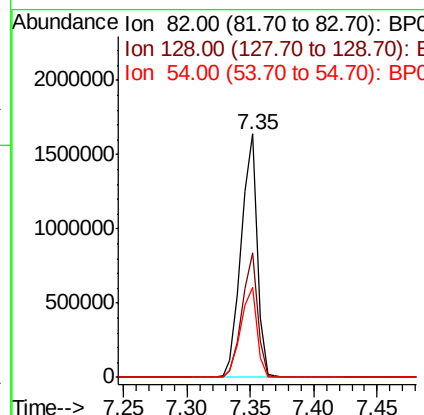
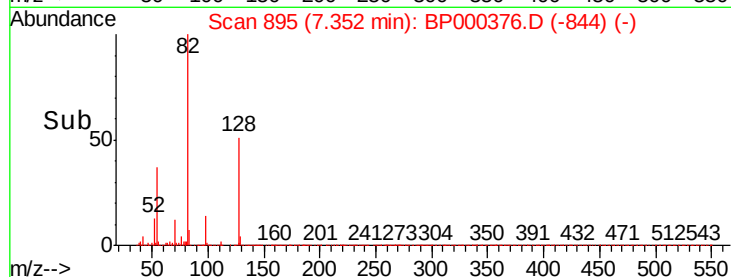
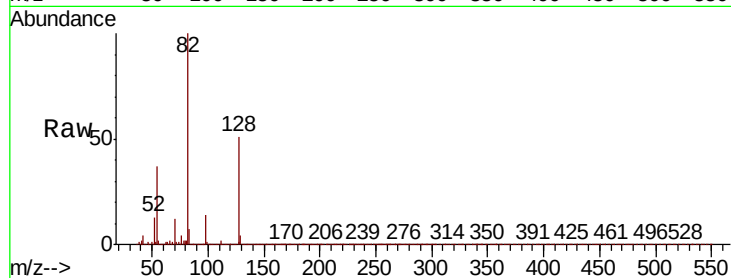
#23
Nitrobenzene-d5
Concen: 100.474 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.00 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Lower	Upper
82	100		
128	51.0	40.7	61.1
54	36.9	30.1	45.1

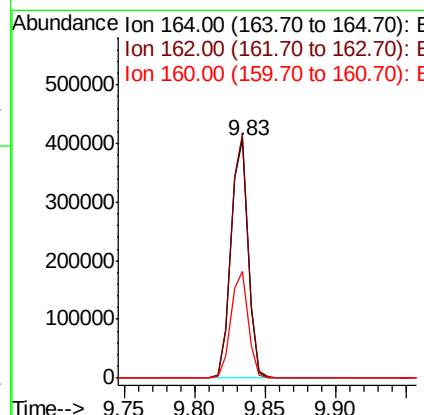
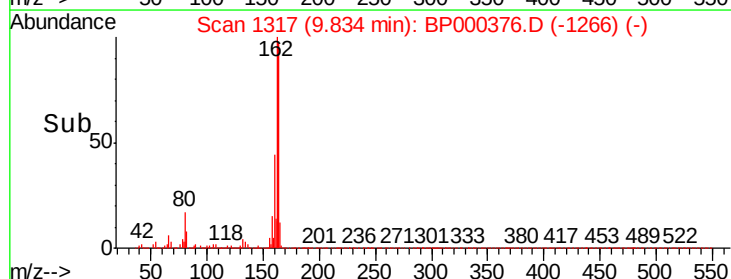
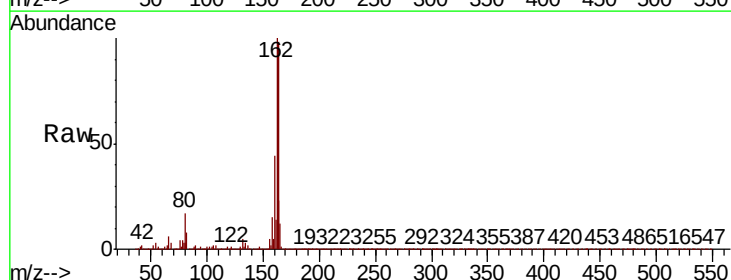
Manual Integrations
APPROVED

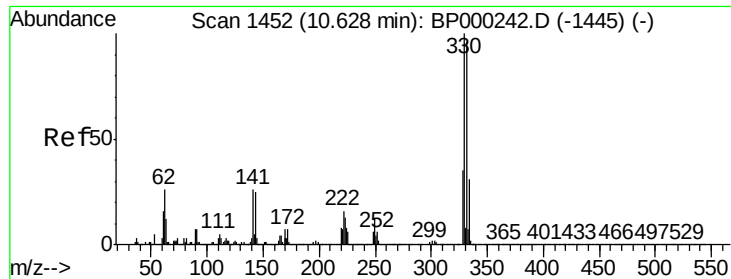
mohammad
9/24/2019 2:38:54 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	79.9	119.9
160	44.7	35.6	53.4





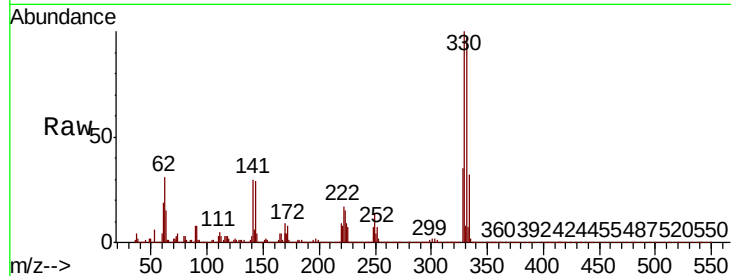
#42
2,4,6-Tribromophenol
Concen: 176.968 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.00 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Resp	Lower	Upper
330	100	598798		
332	96.4	76.6	115.0	
141	31.5	26.5	39.7	

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM

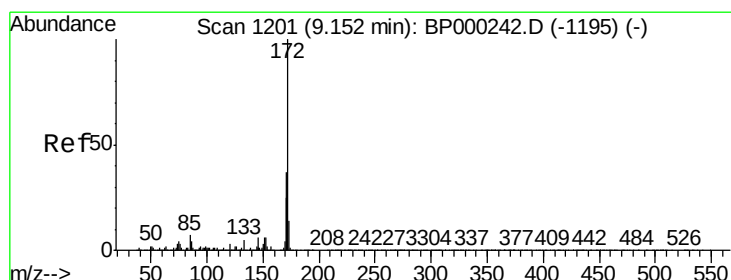
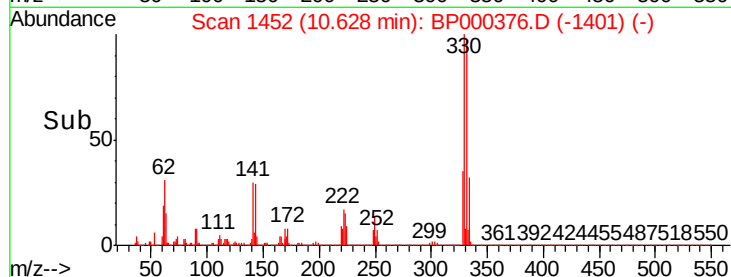
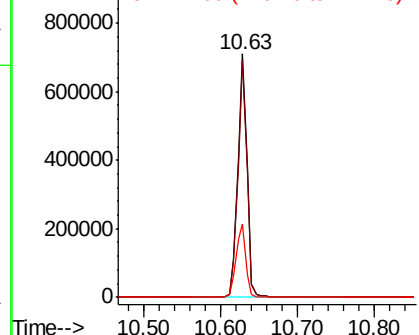


Abundance

Ion 329.80 (329.50 to 330.50): E

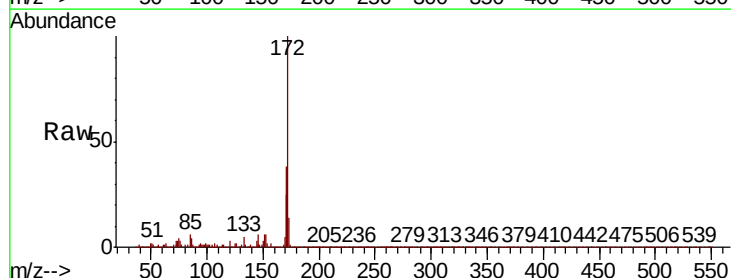
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
2-Fluorobiphenyl
Concen: 150.764 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.00 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2857624		
171	37.6	29.8	44.6	
170	25.1	19.8	29.6	

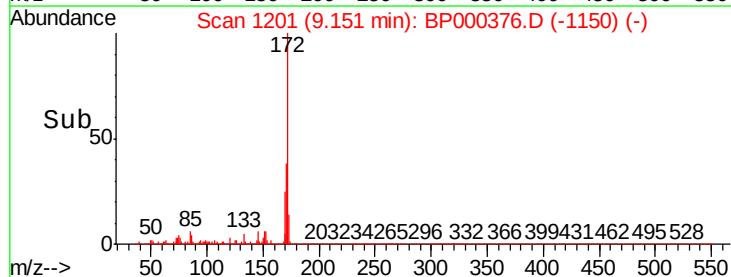
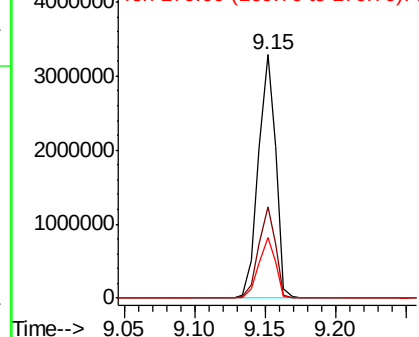


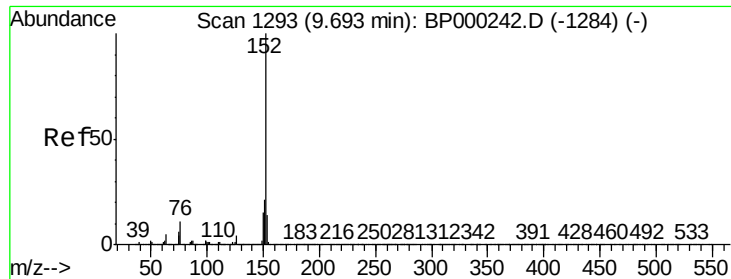
Abundance

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





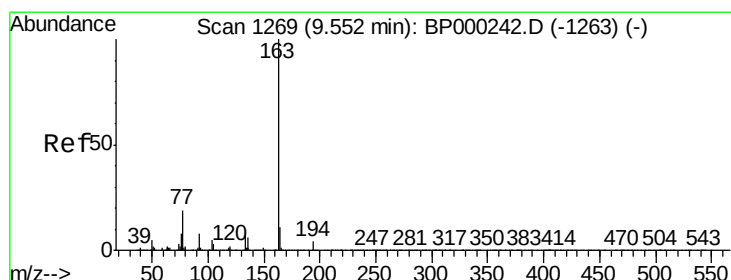
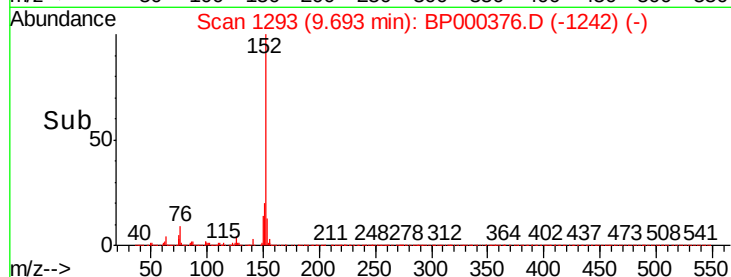
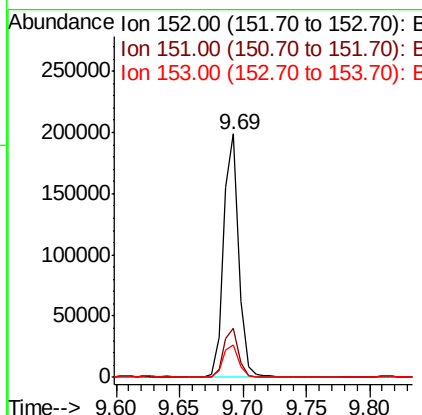
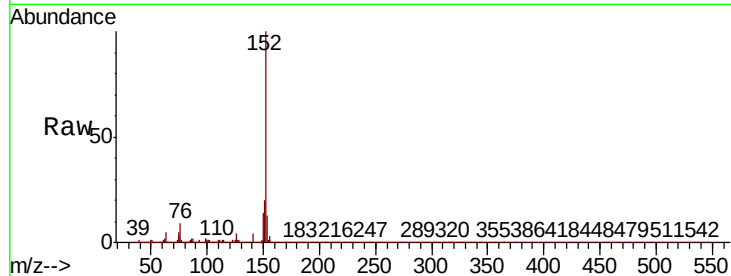
#49
Acenaphthylene
Concen: 5.539 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.00 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampled :
WC-10-091919

Tot Ion	Ratio	Resp	Lower	Upper
152	100	164836		
151	20.3	16.4	24.6	
153	13.5	11.0	16.4	

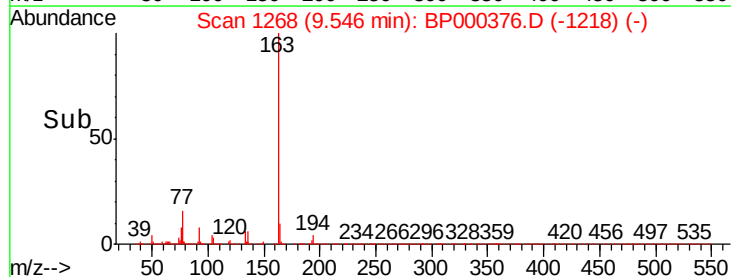
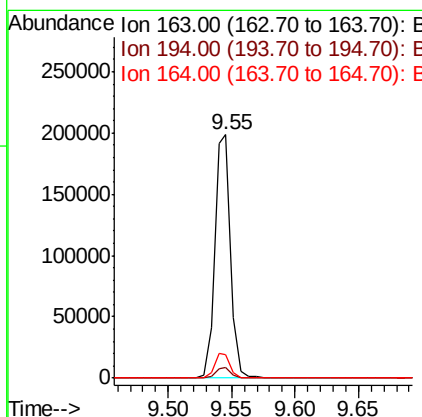
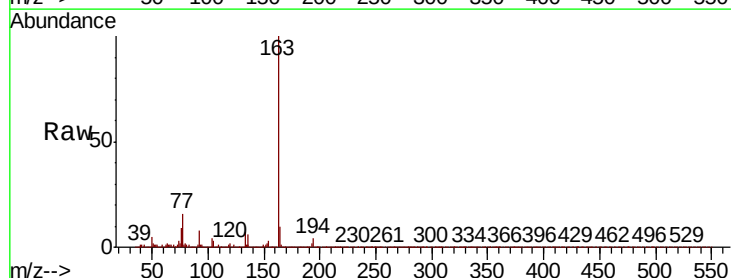
Manual Integrations
APPROVED

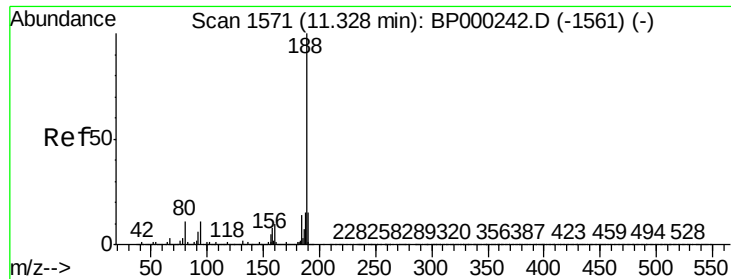
mohammad
9/24/2019 2:38:54 PM



#50
Dimethylphthalate
Concen: 7.459 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	173361		
194	4.4	3.4	5.0	
164	9.9	8.5	12.7	





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Instrument :

BNA_P

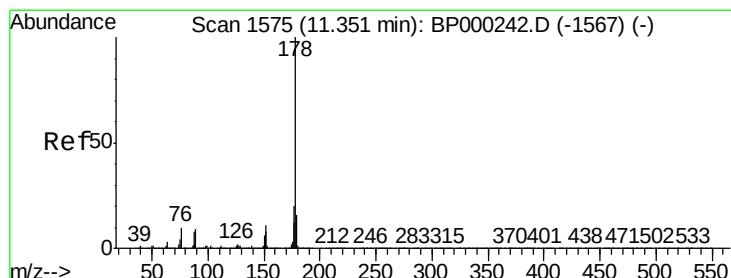
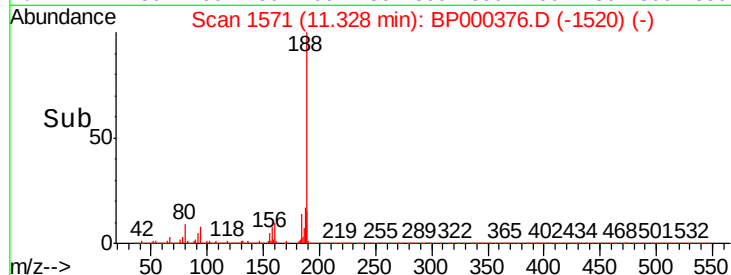
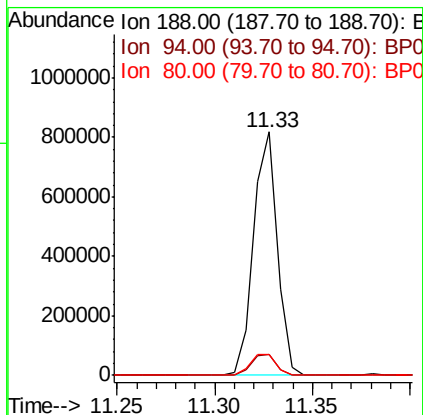
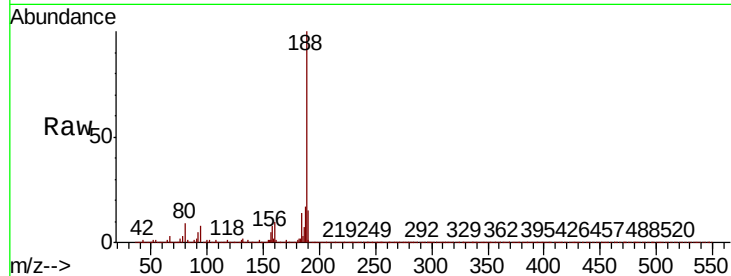
ClientSampled :

WC-10-091919

Tot Ion	Ion	Ratio	Resp	Lower	Upper
188	100		691120		
94	8.5	8.5	12.7#		
80	8.6	8.6	13.0#		

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM



#71

Phenanthrene

Concen: 15.567 ng

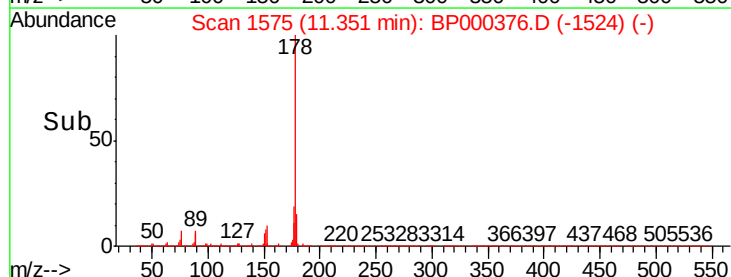
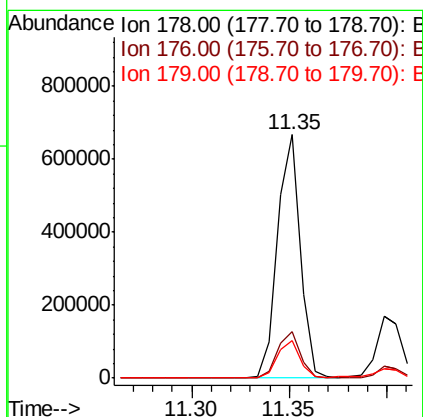
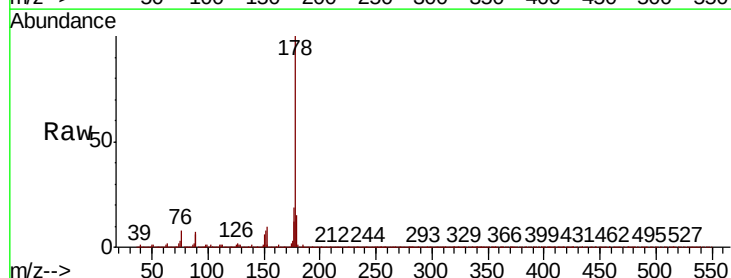
RT: 11.35 min Scan# 1575

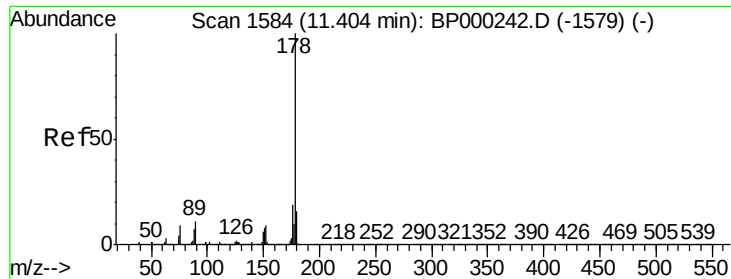
Delta R.T. -0.00 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		539143		
176	19.2	15.8	23.8		
179	15.4	12.7	19.1		





#72

Anthracene

Concen: 4.066 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Instrument :

BNA_P

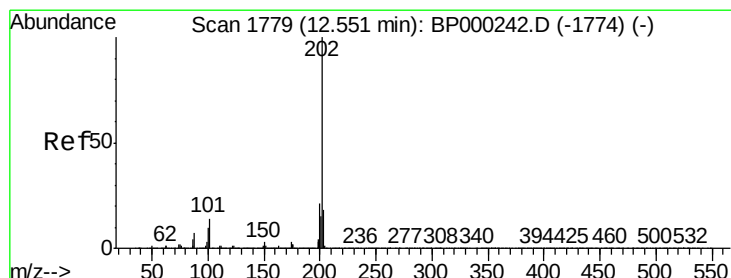
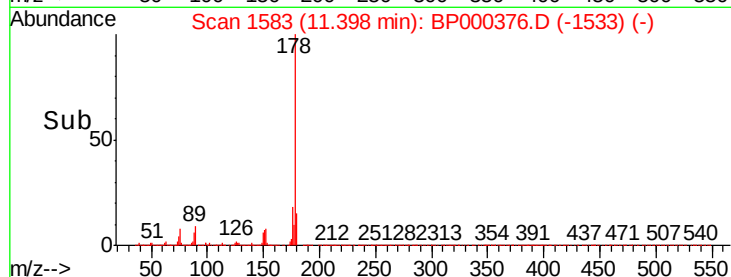
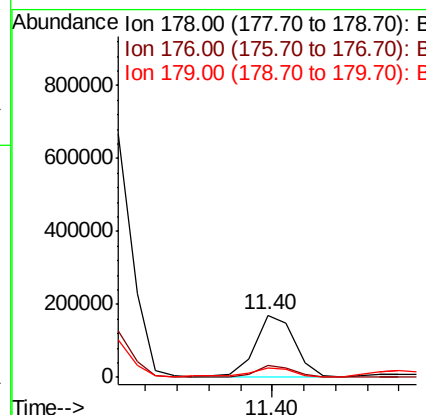
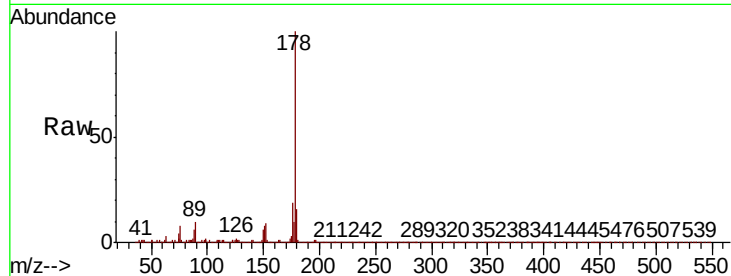
ClientSampleId :

WC-10-091919

Tot Ion:	178	Resp:	144942
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.4	23.0
179	16.1	12.7	19.1

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM



#75

Fluoranthene

Concen: 22.760 ng

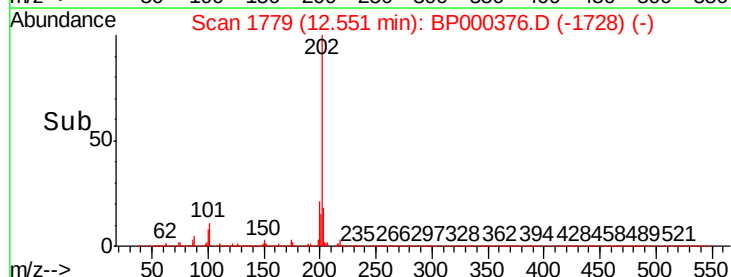
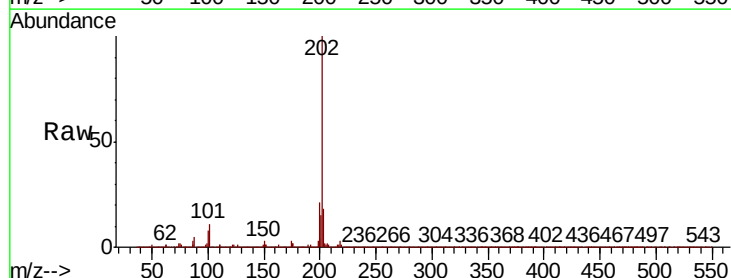
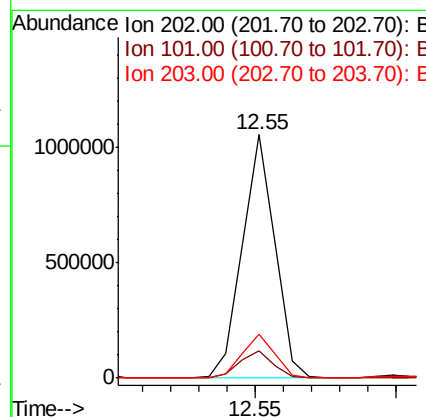
RT: 12.55 min Scan# 1779

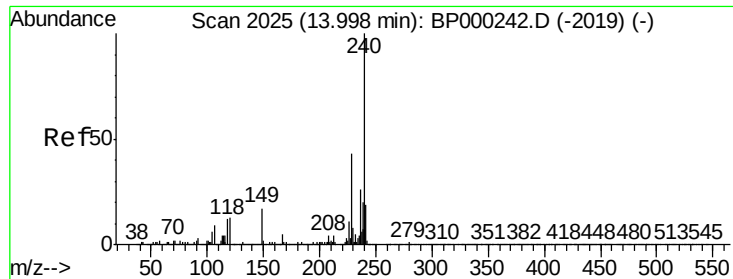
Delta R.T. -0.00 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Tgt Ion:	202	Resp:	846424
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	33.9
203	18.0	0.0	38.0





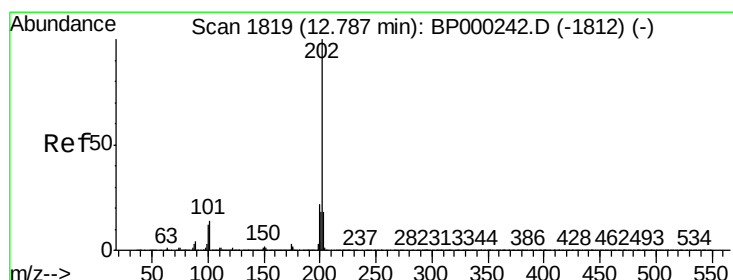
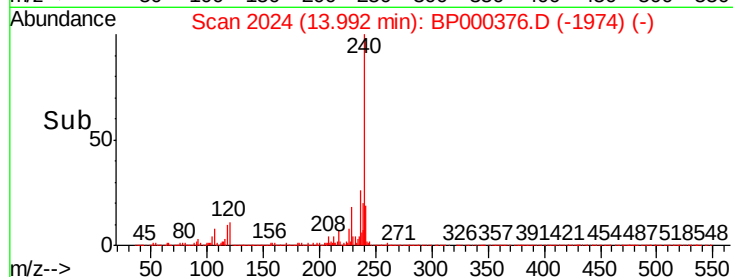
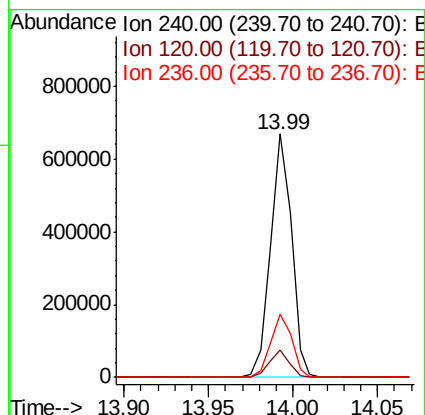
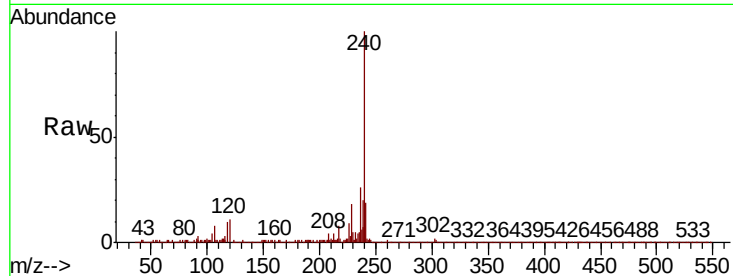
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	10.4	15.6
236	26.1	21.0	31.6

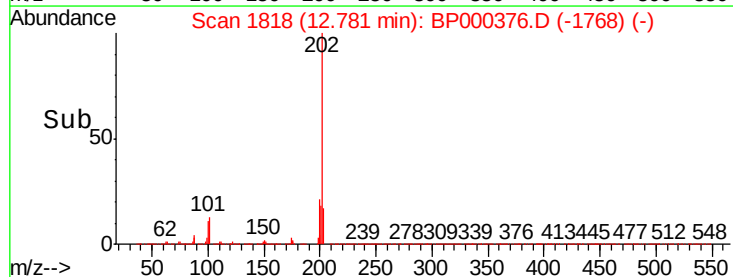
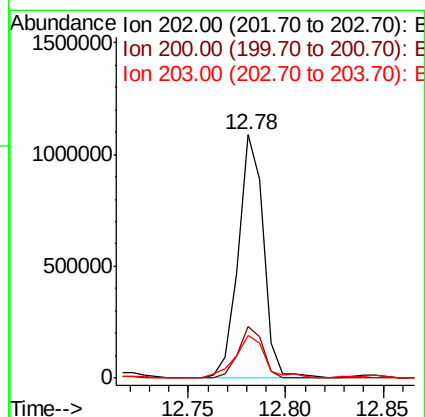
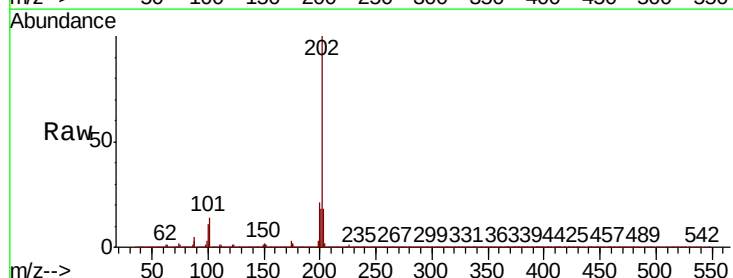
Manual Integrations
APPROVED

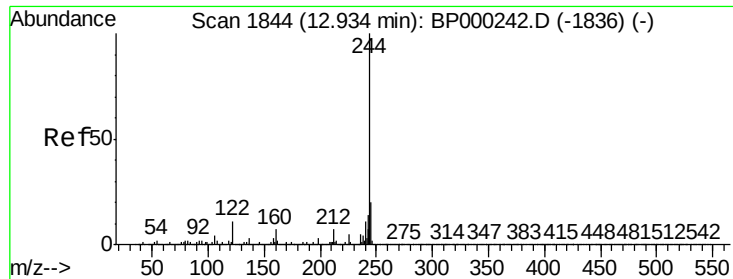
mohammad
9/24/2019 2:38:54 PM



#78
Pyrene
Concen: 22.575 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.5	26.3
203	17.8	14.3	21.5





#79

Terphenyl-d14

Concen: 102.255 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Instrument :

BNA_P

ClientSampleId :

WC-10-091919

Tot Ion:244 Resp: 2795409

Ion Ratio Lower Upper

244 100

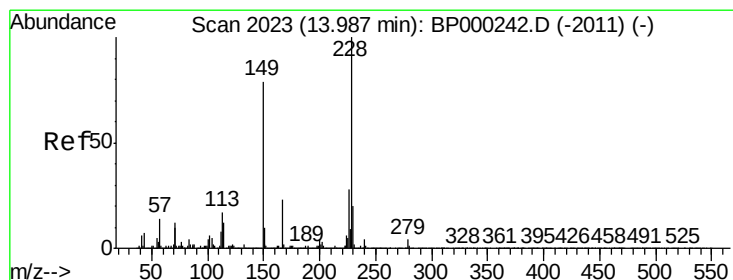
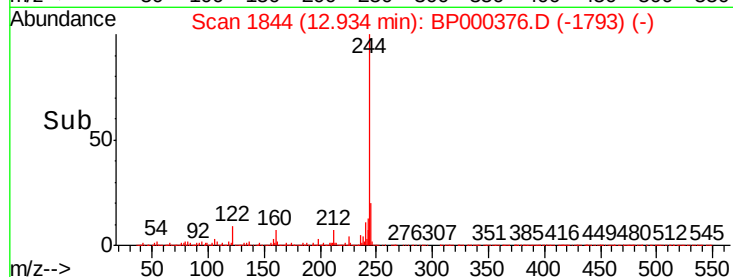
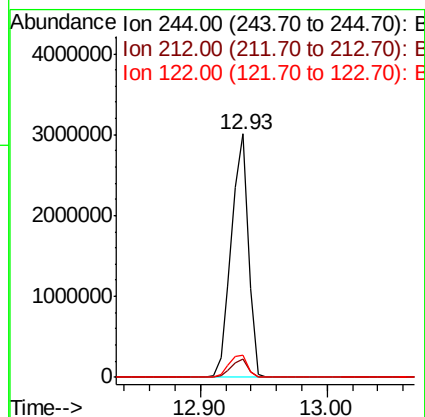
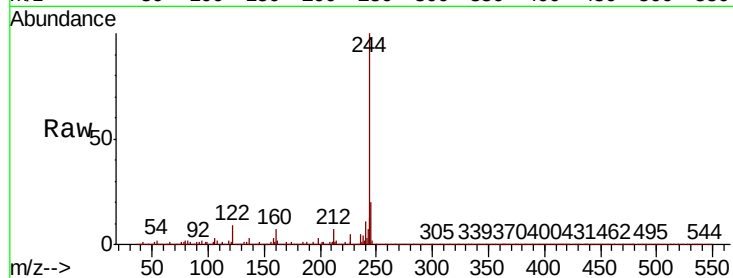
212 7.4 5.9 8.9

122 9.1 9.0 13.4

Manual Integrations
APPROVED

mohammad

9/24/2019 2:38:54 PM



#81

Benzo(a)anthracene

Concen: 12.170 ng m

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

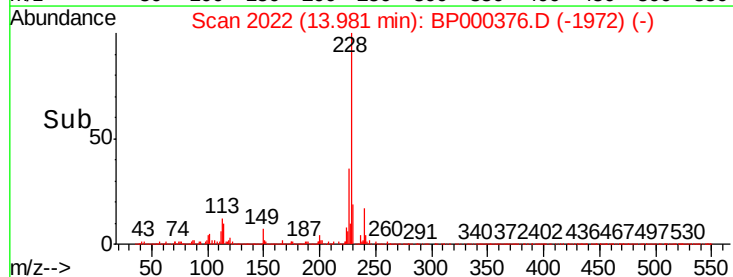
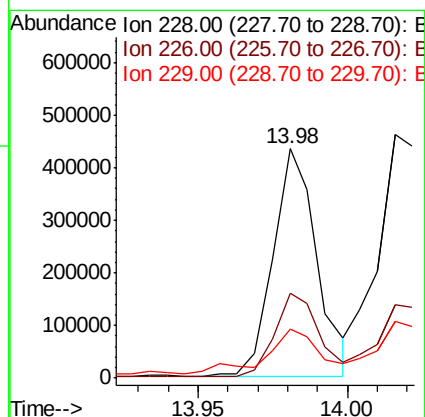
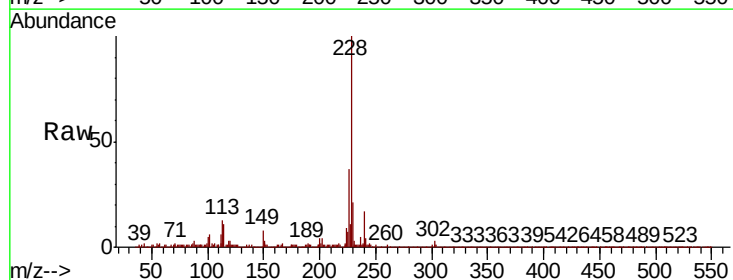
Tgt Ion:228 Resp: 440890

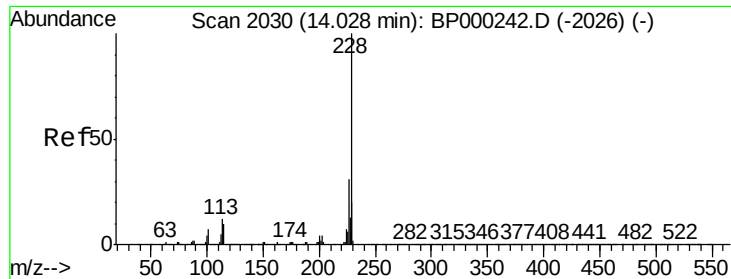
Ion Ratio Lower Upper

228 100

226 37.3 22.2 33.4#

229 21.5 16.0 24.0





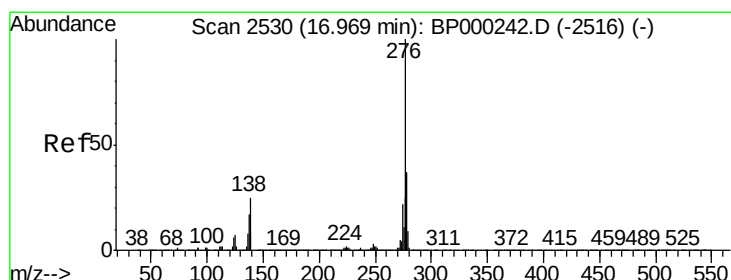
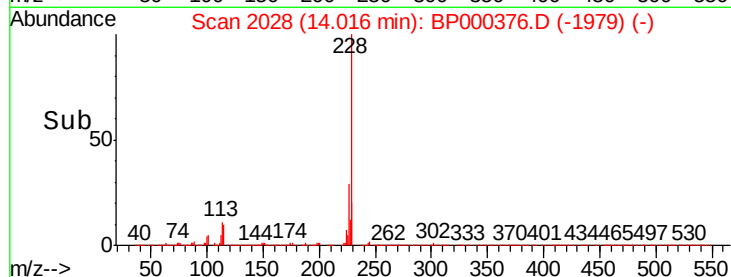
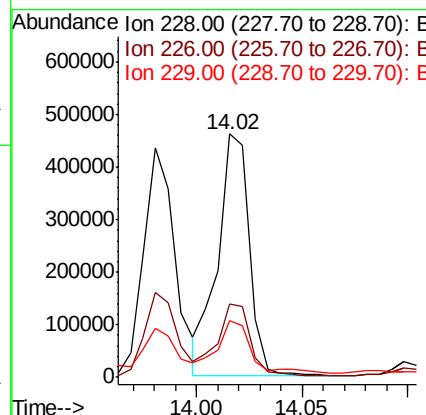
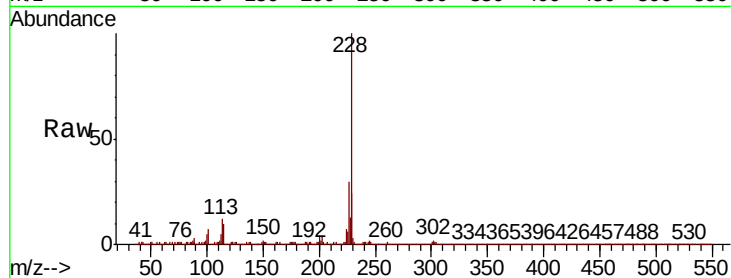
#83
Chrysene
Concen: 13.436 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	23.5	16.2	24.2

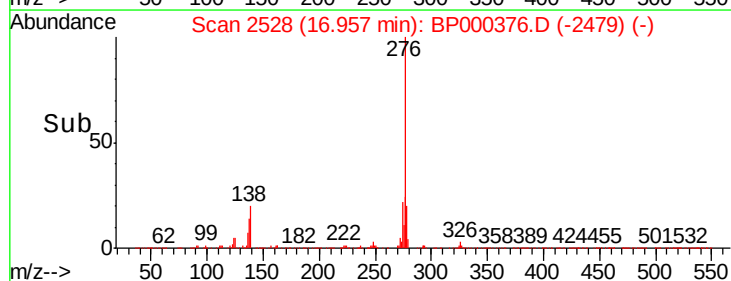
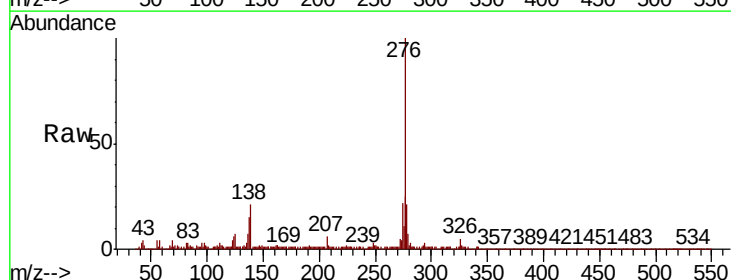
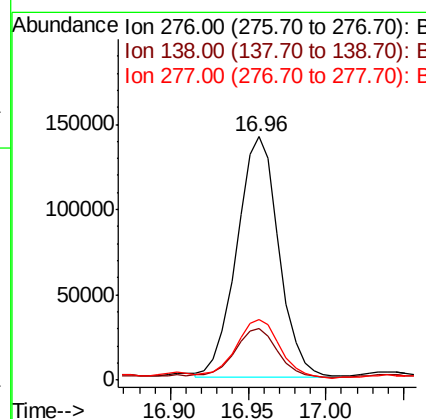
Manual Integrations
APPROVED

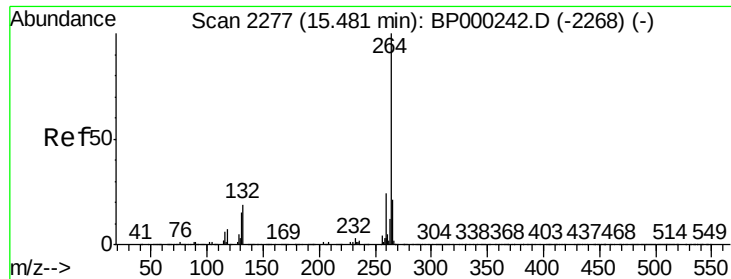
mohammad
9/24/2019 2:38:54 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 6.132 ng m
RT: 16.96 min Scan# 2528
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	1.0	22.6	33.8#
277	1.0	20.4	30.6#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. -0.01 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Instrument :

BNA_P

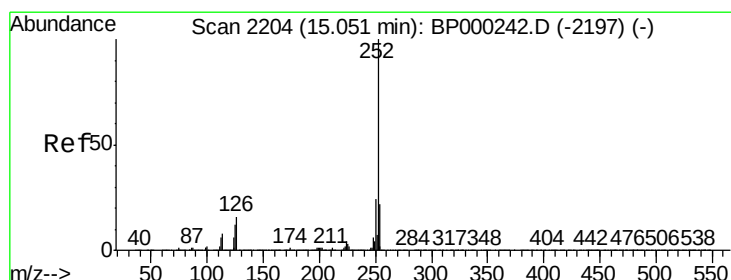
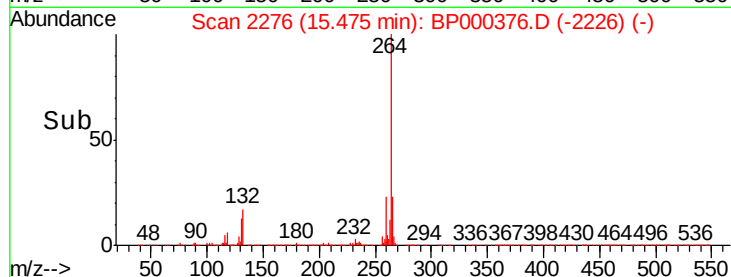
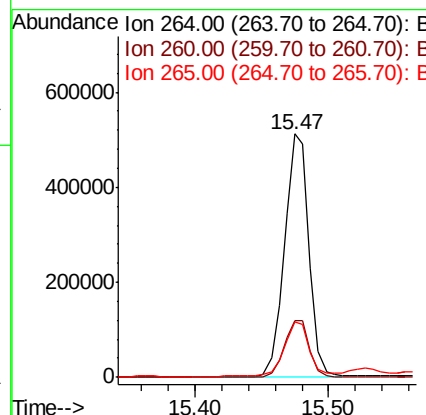
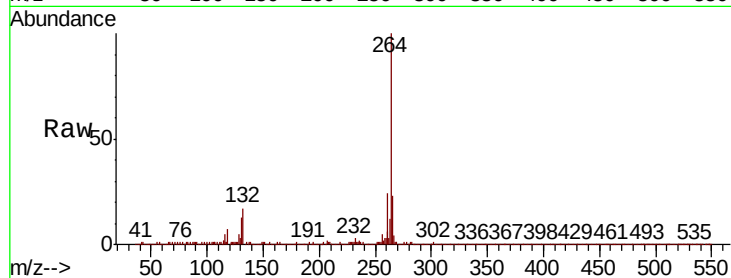
ClientSampleId :

WC-10-091919

Tot Ion:	264	Resp:	652448
Ion Ratio		Lower	Upper
264	100		
260	23.5	18.9	28.3
265	22.9	17.2	25.8

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM



#88

Benzo(b)fluoranthene

Concen: 13.376 ng m

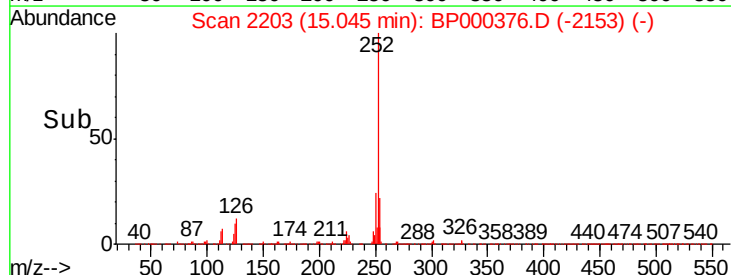
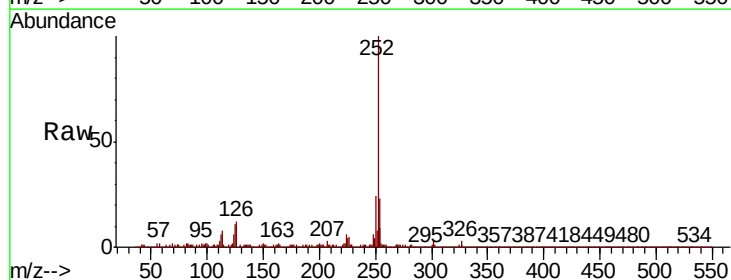
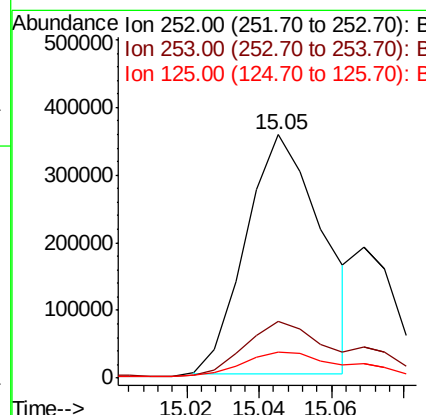
RT: 15.05 min Scan# 2203

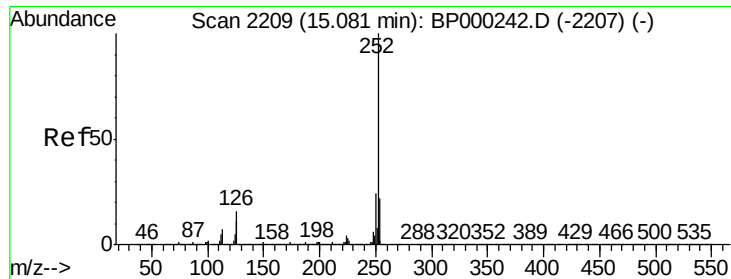
Delta R.T. -0.01 min

Lab File: BP000376.D

Acq: 23 Sep 2019 21:30

Tgt Ion:	252	Resp:	520648
Ion Ratio		Lower	Upper
252	100		
253	23.1	17.8	26.6
125	10.9	9.5	14.3





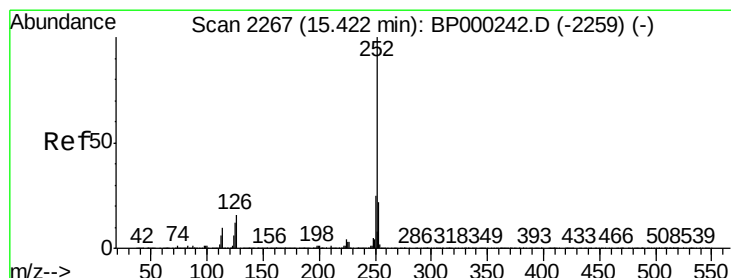
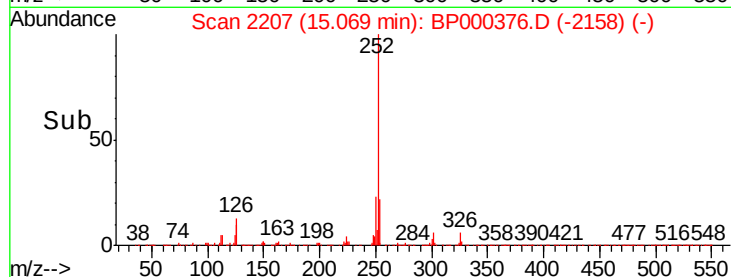
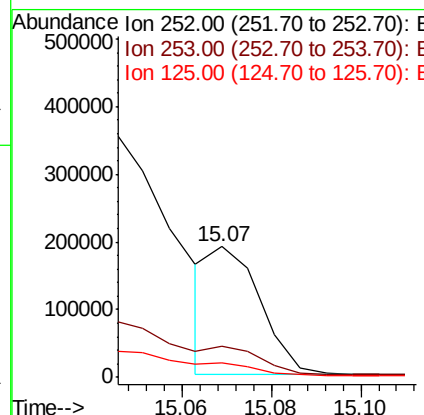
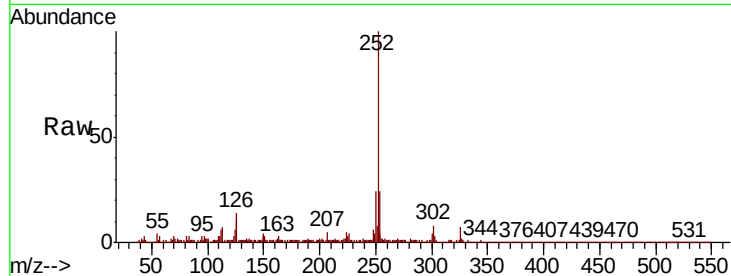
#89
Benzo(k)fluoranthene
Concen: 4.325 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.8
125	10.8	9.6	14.4

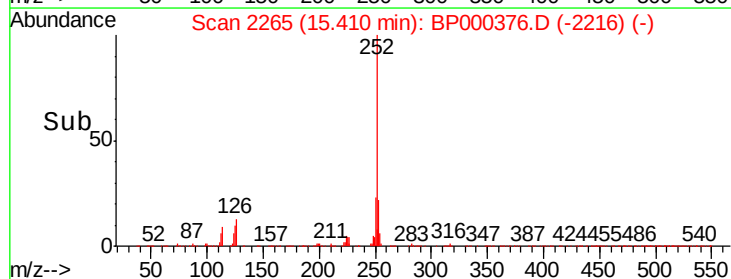
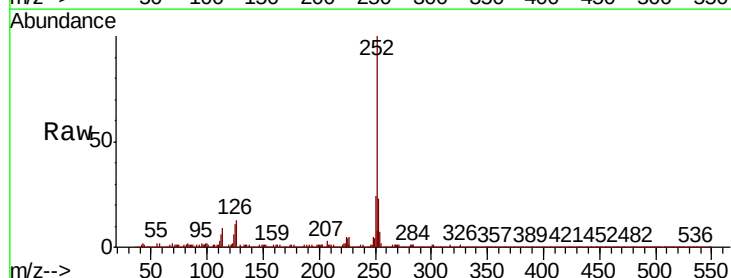
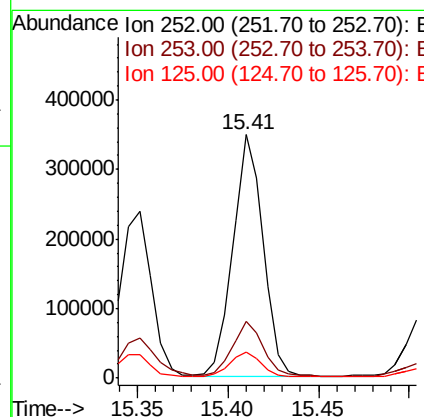
Manual Integrations
APPROVED

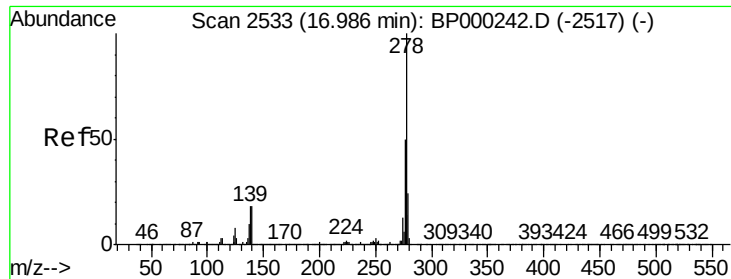
mohammad
9/24/2019 2:38:54 PM



#90
Benzo(a)pyrene
Concen: 11.357 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.7	26.5
125	10.8	10.0	15.0





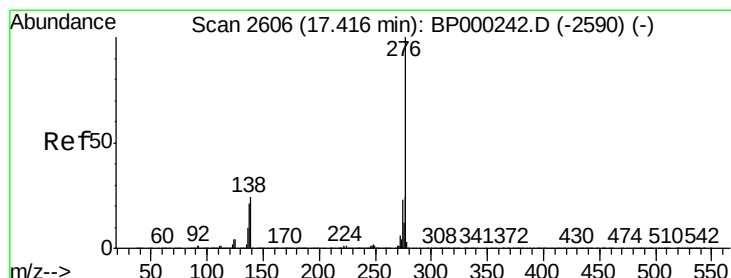
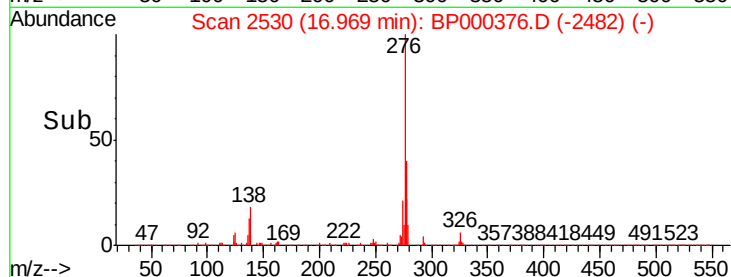
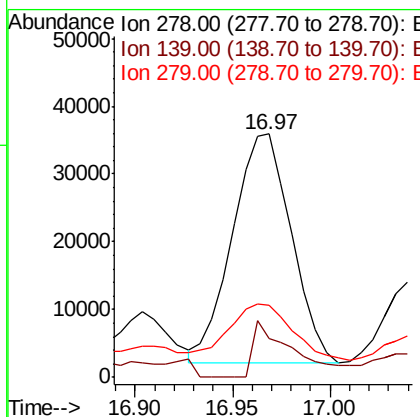
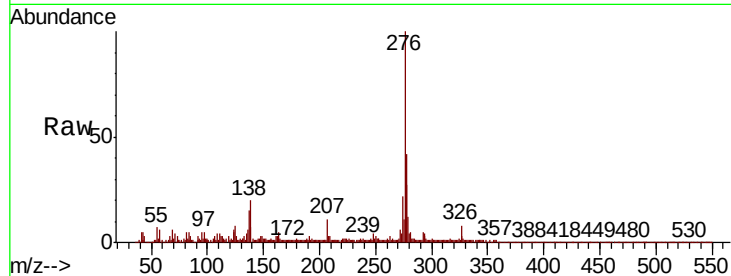
#91
Dibenzo(a,h)anthracene
Concen: 2.135 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.02 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Instrument :
BNA_P
ClientSampleId :
WC-10-091919

Tot Ion:	278	Resp:	70489
Ion Ratio	Lower	Upper	
278	100		
139	15.9	14.5	21.7
279	29.7	19.0	28.6

Manual Integrations
APPROVED

mohammad
9/24/2019 2:38:54 PM



#92
Benzo(g,h,i)perylene
Concen: 8.140 ng
RT: 17.40 min Scan# 2604
Delta R.T. -0.01 min
Lab File: BP000376.D
Acq: 23 Sep 2019 21:30

Tgt Ion:	276	Resp:	276272
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.1	28.7
138	21.5	19.5	29.3

