

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
 Data File : BP000122.D
 Acq On : 09 Sep 2019 04:48
 Operator : HP/JU
 Sample : K4636-06 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SB-21-COMP

Manual Integrations
 APPROVED

mohammad
 9/10/2019 2:51:30 PM

Quant Time: Sep 09 08:24:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 17:47:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	442979	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	1675652	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	898027	20.00	ng	-0.01
64) Phenanthrene-d10	11.43	188	1614896	20.00	ng	0.00
76) Chrysene-d12	14.10	240	1129930	20.00	ng	0.00
87) Perylene-d12	15.63	264	1265490	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	1131333	40.73	ng	0.00
7) Phenol-d6	6.51	99	1566256	44.66	ng	0.00
23) Nitrobenzene-d5	7.45	82	852334	31.21	ng	0.00
42) 2,4,6-Tribromophenol	10.73	330	319494	42.21	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1729929	32.17	ng	0.00
79) Terphenyl-d14	13.03	244	1731803	33.41	ng	0.00

Target Compounds				Qvalue		
49) Acenaphthylene	9.79	152	216422	2.772	ng	98
50) Dimethylphthalate	9.65	163	236236	3.860	ng	99
52) Acenaphthene	9.97	154	104810	2.139	ng	93
58) Fluorene	10.49	166	124291	2.374	ng	96
71) Phenanthrene	11.46	178	2586272	32.132	ng	99
72) Anthracene	11.51	178	610065	7.673	ng	98
73) Carbazole	11.66	167	211031	2.812	ng	96
75) Fluoranthene	12.66	202	4046709	46.266	ng	96
78) Pyrene	12.89	202	3919594	47.153	ng	99
81) Benzo(a)anthracene	14.09	228	1742906	23.804	ng	97
83) Chrysene	14.13	228	1935530	27.947	ng	97
84) Bis(2-ethylhexyl)phthalate	14.09	149	4876641	101.178	ng	# 96
86) Indeno(1,2,3-cd)pyrene	17.17	276	1137798	13.111	ng	94
88) Benzo(b)fluoranthene	15.18	252	2616993m	33.856	ng	
89) Benzo(k)fluoranthene	15.20	252	801397m	11.329	ng	
90) Benzo(a)pyrene	15.56	252	1739673	24.932	ng	97
91) Dibenzo(a,h)anthracene	17.19	278	290539	4.164	ng	94
92) Benzo(g,h,i)perylene	17.65	276	1081717	15.662	ng	96

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

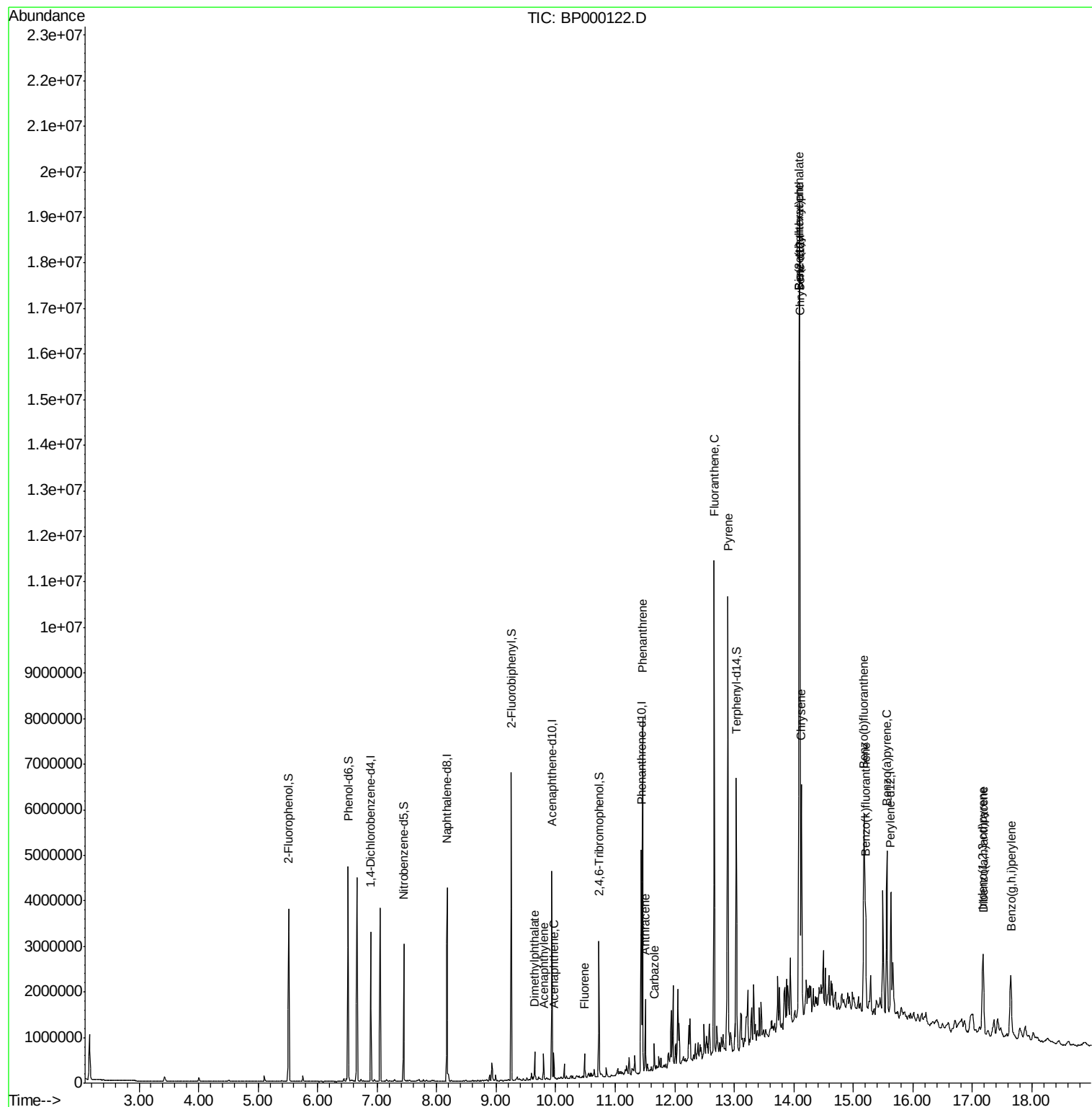
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000122.D
Acq On : 09 Sep 2019 04:48
Operator : HP/JU
Sample : K4636-06 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

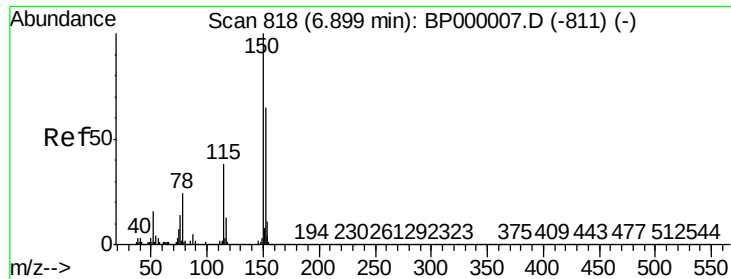
Instrument :
BNA_P
ClientSampleID :
SB-21-COMP

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM

Quant Time: Sep 09 08:24:13 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 30 17:47:17 2019
Response via : Initial Calibration





#1

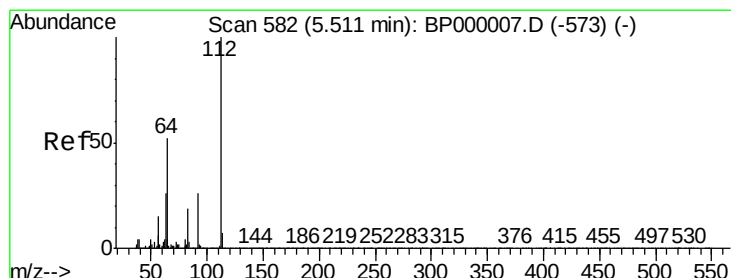
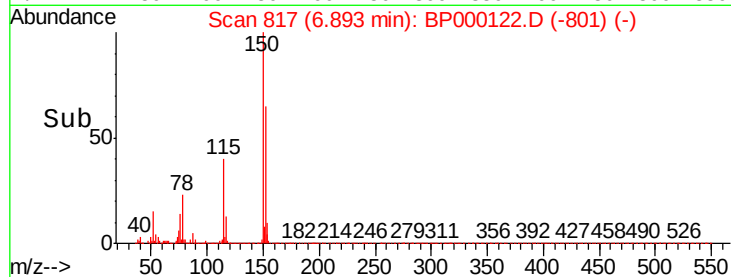
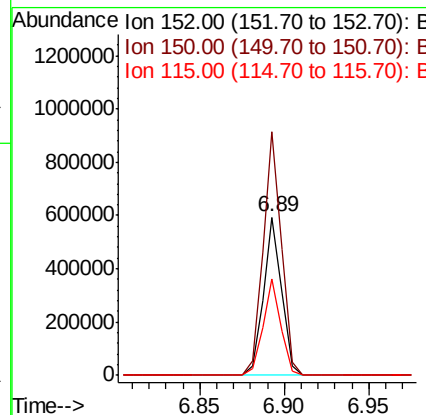
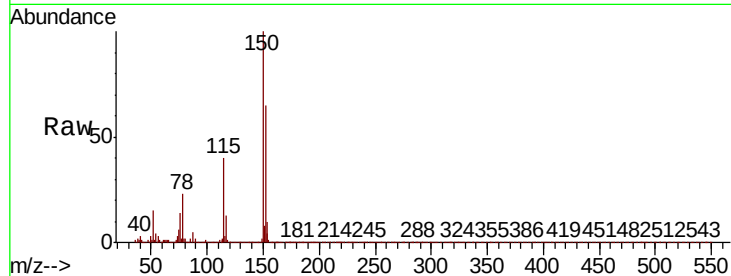
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	123.0	184.6
115	61.3	46.7	70.1

Manual Integrations
APPROVED

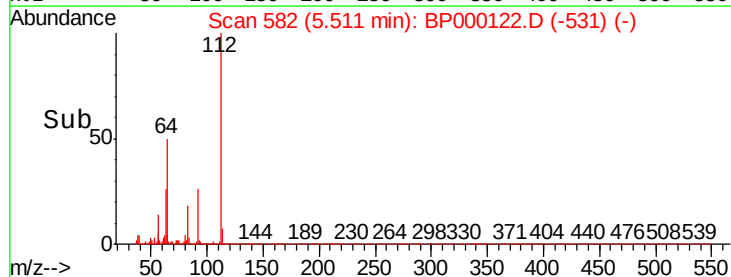
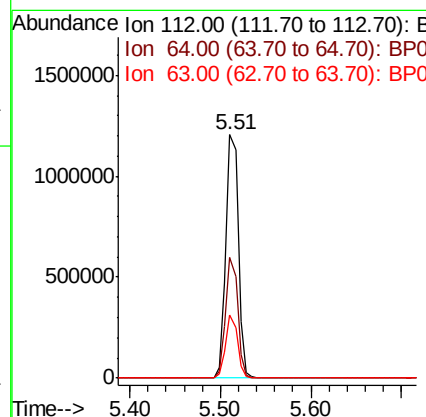
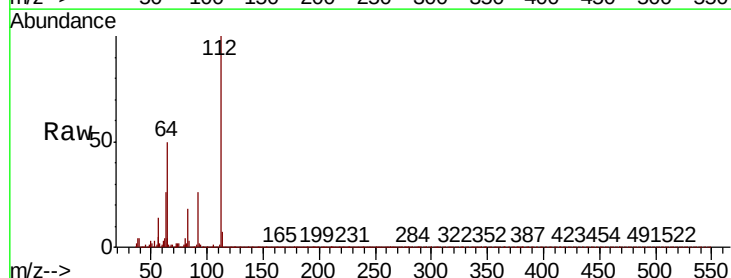
mohammad
9/10/2019 2:51:30 PM

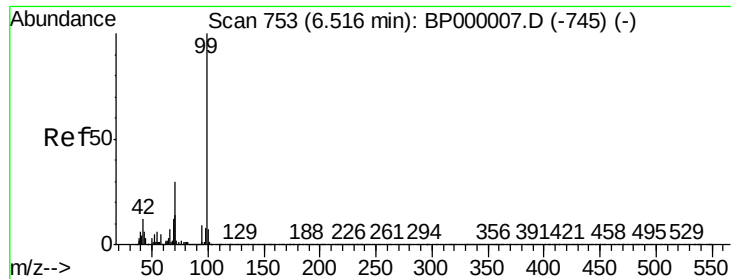


#5

2-Fluorophenol
Concen: 40.725 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.00 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.8	41.8	62.8
63	25.9	21.0	31.4





#7

Phenol-d6

Concen: 44.662 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

ClientSampled :

SB-21-COMP

Tot Ion: 99 Resp: 1566256

Ion Ratio Lower Upper

99 100

42 11.1 9.8 14.8

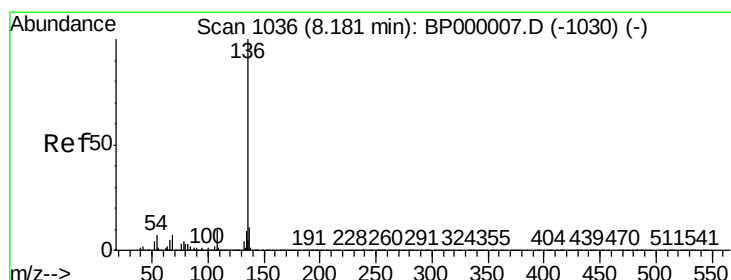
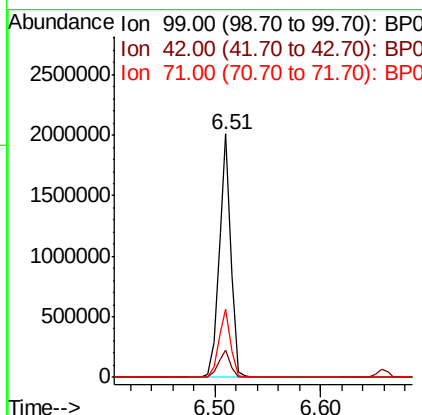
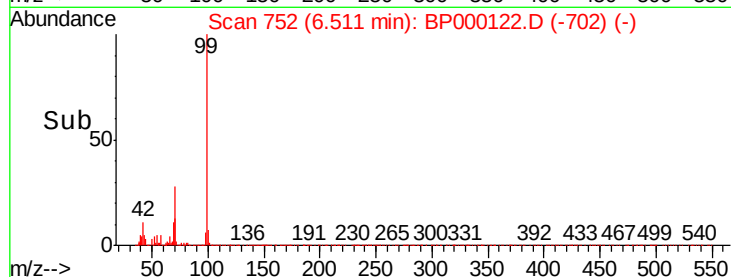
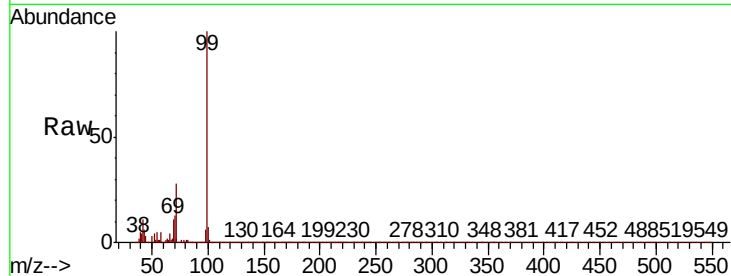
71 27.8 23.8 35.8

Manual Integrations

APPROVED

mohammad

9/10/2019 2:51:30 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion: 136 Resp: 1675652

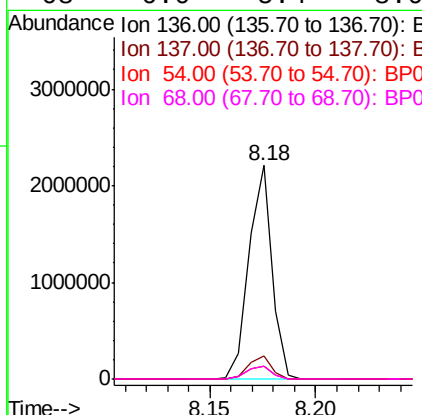
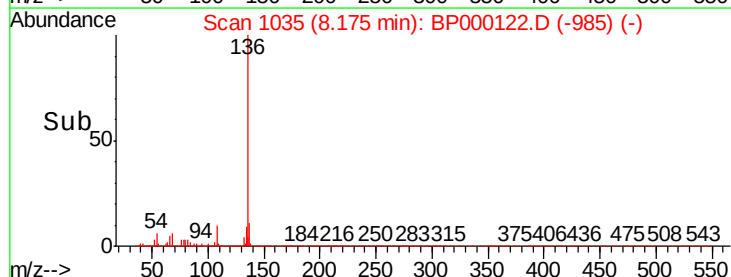
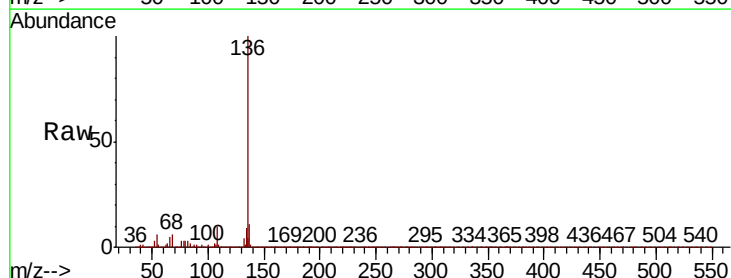
Ion Ratio Lower Upper

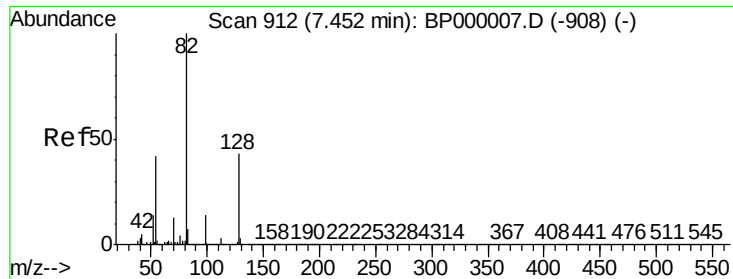
136 100

137 10.8 8.6 13.0

54 5.8 5.4 8.2

68 6.0 5.4 8.0





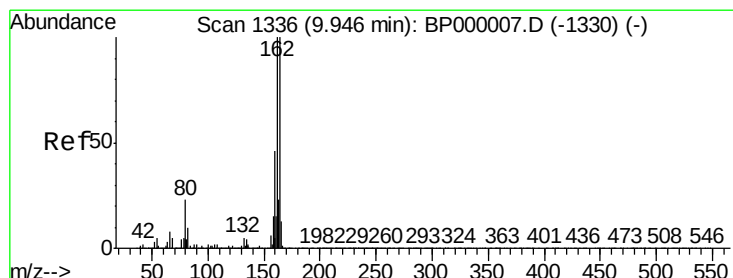
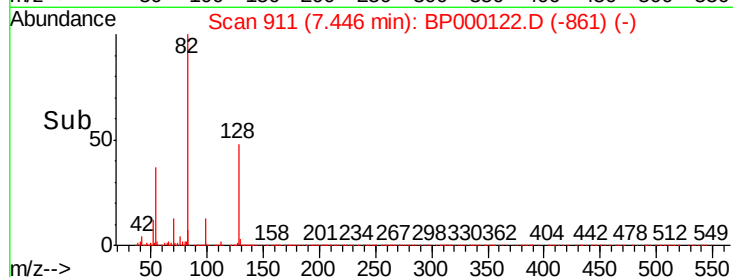
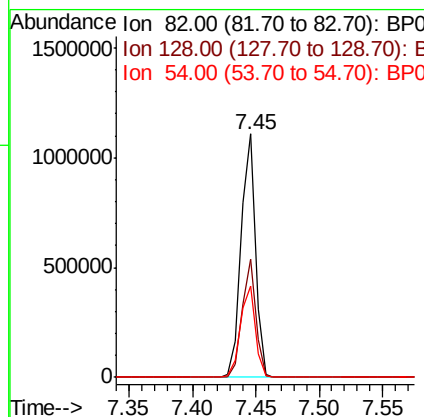
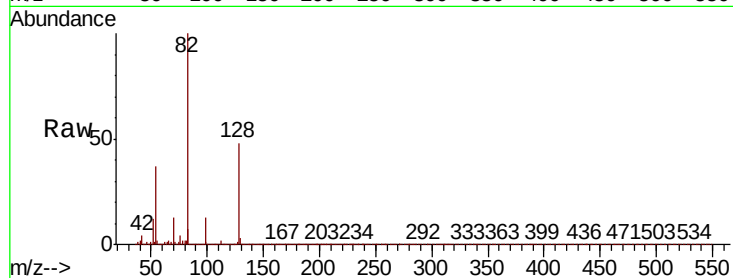
#23
Nitrobenzene-d5
Concen: 31.211 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.3	34.5	51.7
54	37.3	33.2	49.8

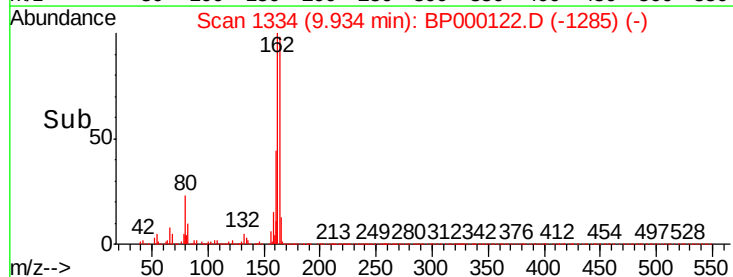
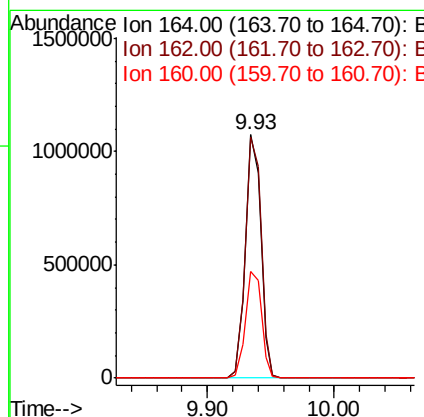
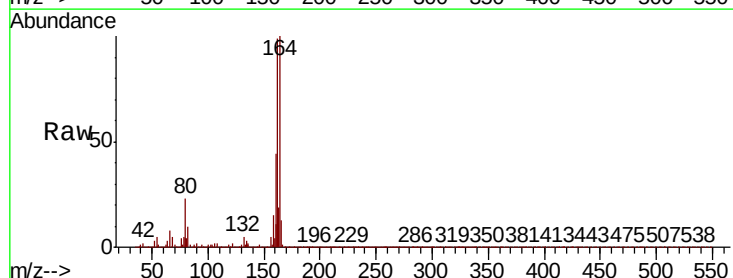
Manual Integrations
APPROVED

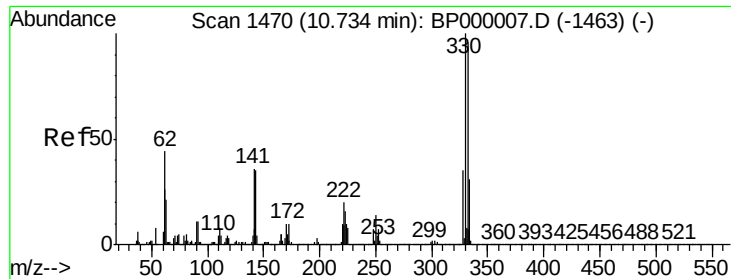
mohammad
9/10/2019 2:51:30 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	43.6	36.6	55.0





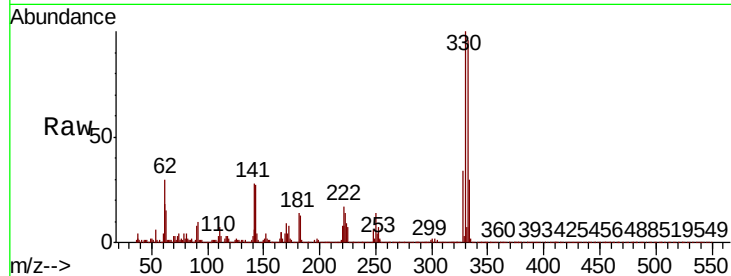
#42
2,4,6-Tribromophenol
Concen: 42.208 ng
RT: 10.73 min Scan# 1469
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Resp	Lower	Upper
330	100	319494		
332	98.1	76.8	115.2	
141	37.5	33.6	50.4	

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM

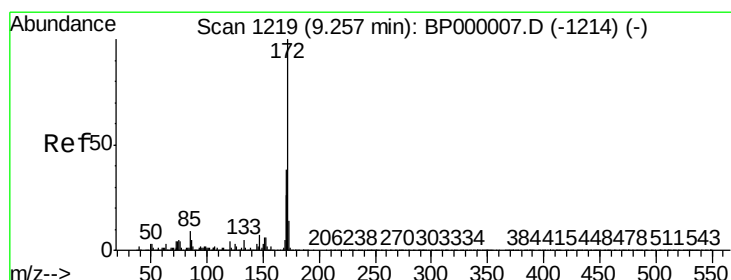
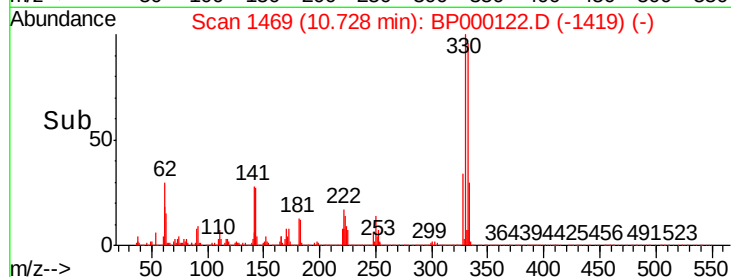
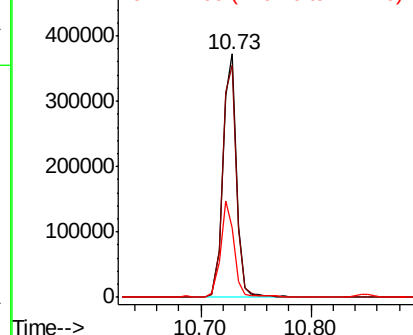


Abundance

Ion 329.80 (329.50 to 330.50): E

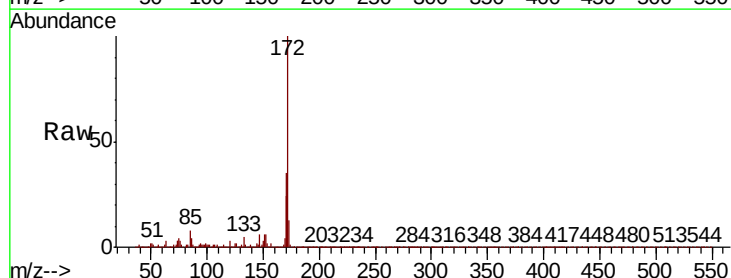
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
2-Fluorobiphenyl
Concen: 32.170 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1729929		
171	35.4	30.7	46.1	
170	24.3	20.7	31.1	

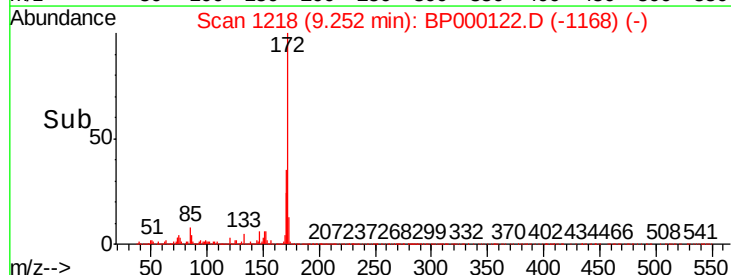
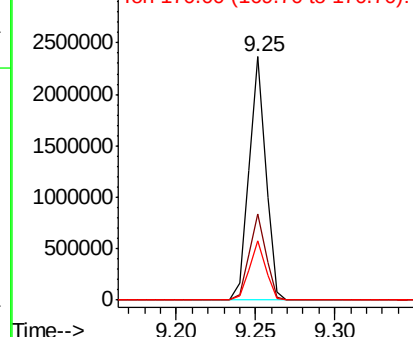


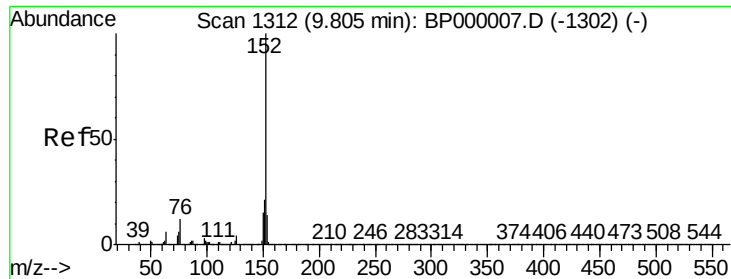
Abundance

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





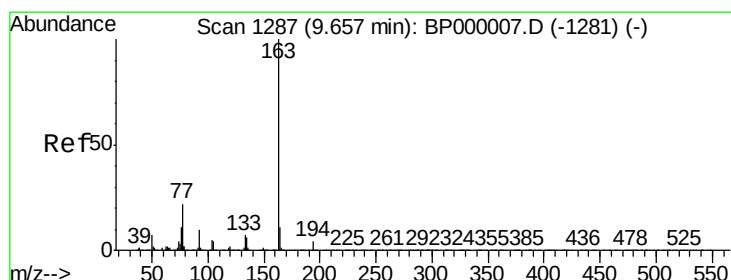
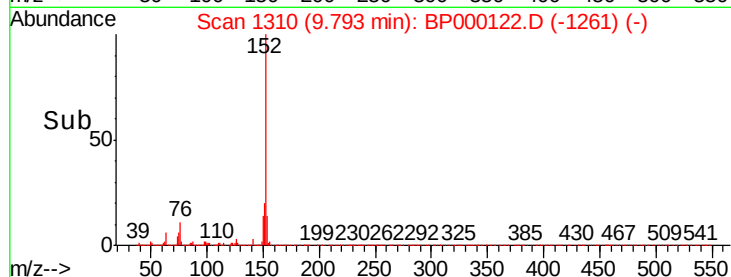
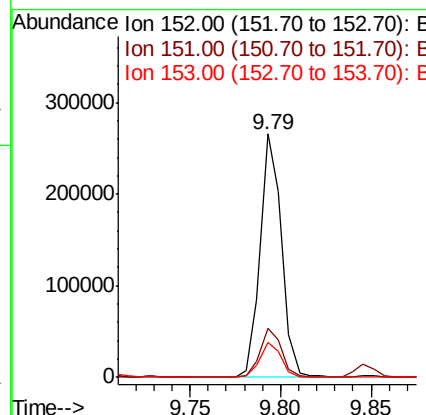
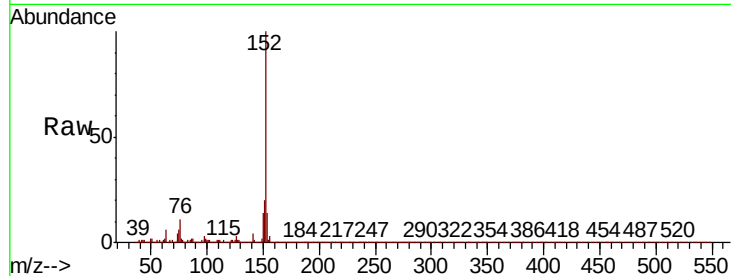
#49
Acenaphthylene
Concen: 2.772 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion:	152	Resp:	216422
Ion Ratio	Lower	Upper	
152	100		
151	20.0	17.0	25.6
153	14.3	11.0	16.6

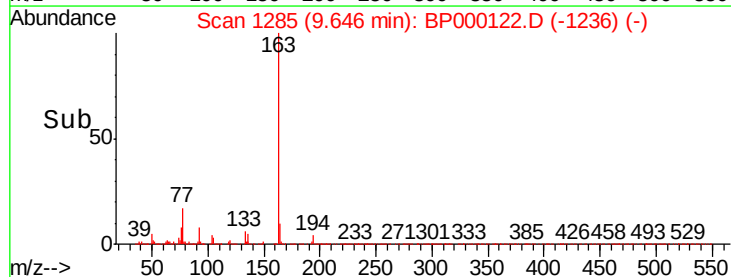
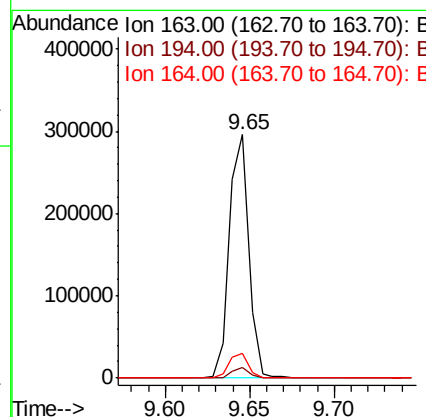
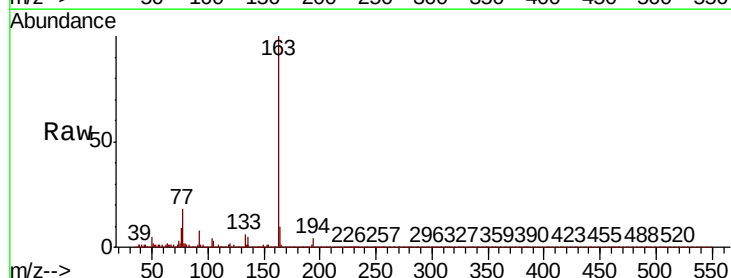
Manual Integrations
APPROVED

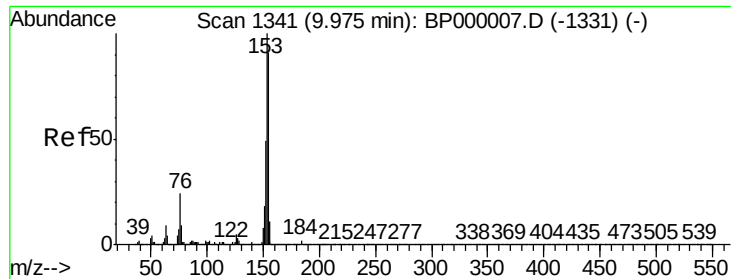
mohammad
9/10/2019 2:51:30 PM



#50
Dimethylphthalate
Concen: 3.860 ng
RT: 9.65 min Scan# 1285
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion:	163	Resp:	236236
Ion Ratio	Lower	Upper	
163	100		
194	4.5	3.3	4.9
164	10.0	8.4	12.6





#52

Acenaphthene

Concen: 2.139 ng

RT: 9.97 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

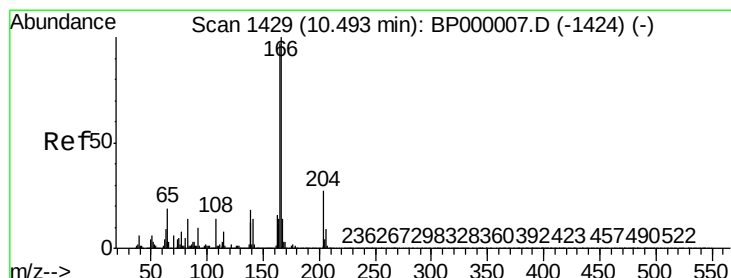
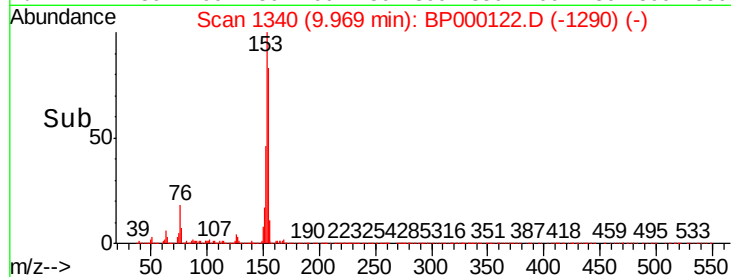
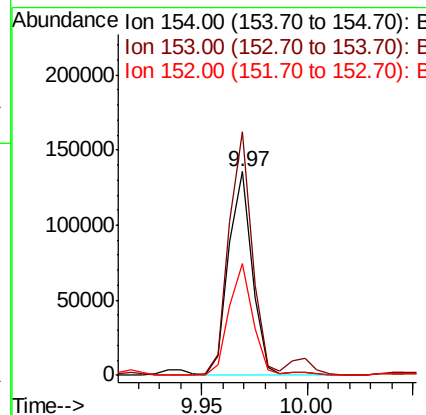
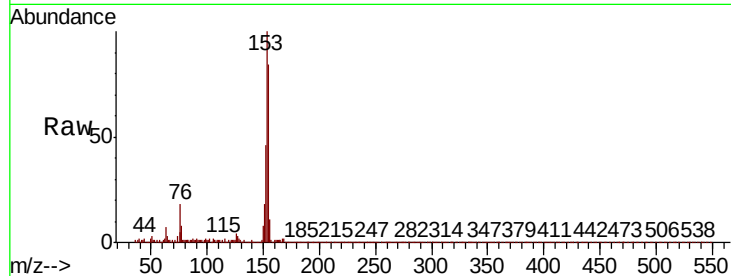
ClientSampleId :

SB-21-COMP

Tot Ion:	154	Resp:	104810
Ion Ratio	Lower	Upper	
154	100		
153	119.8	88.2	132.2
152	54.8	42.9	64.3

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM



#58

Fluorene

Concen: 2.374 ng

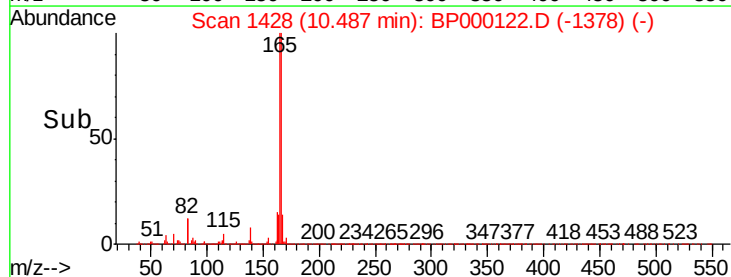
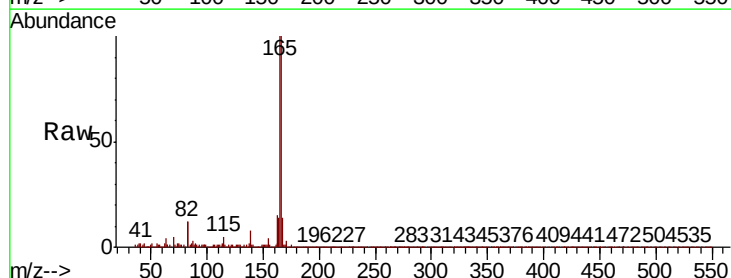
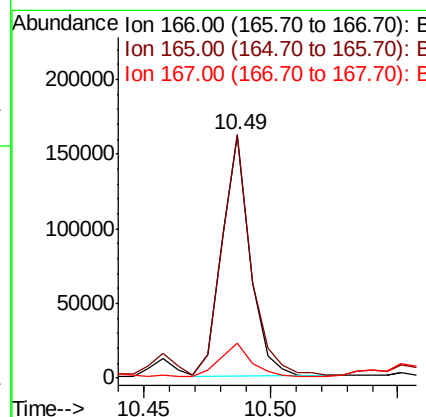
RT: 10.49 min Scan# 1428

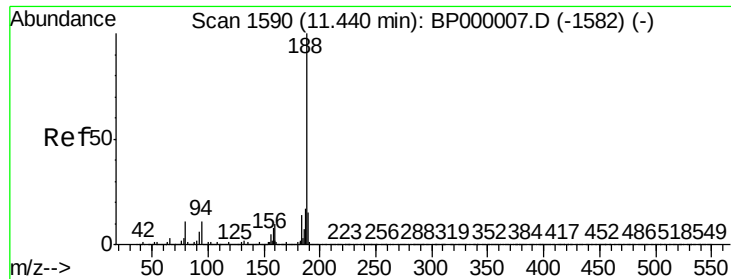
Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion:	166	Resp:	124291
Ion Ratio	Lower	Upper	
166	100		
165	100.4	77.3	115.9
167	14.4	11.0	16.6





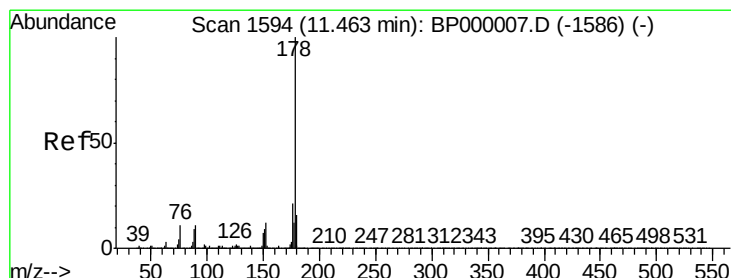
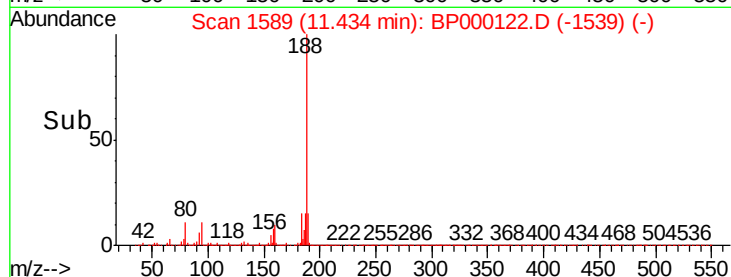
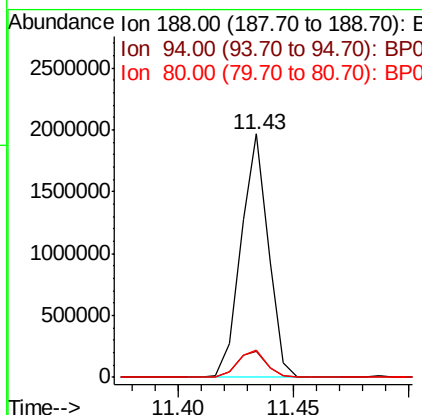
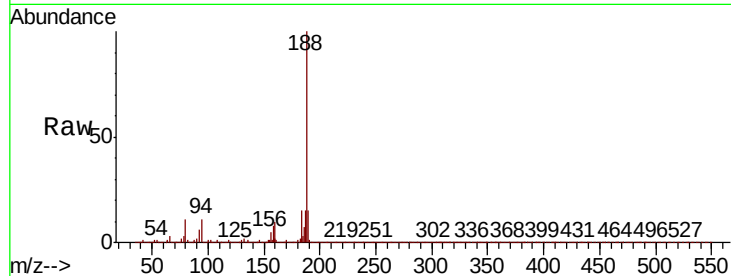
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampled :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.8	13.2
80	11.1	9.0	13.6

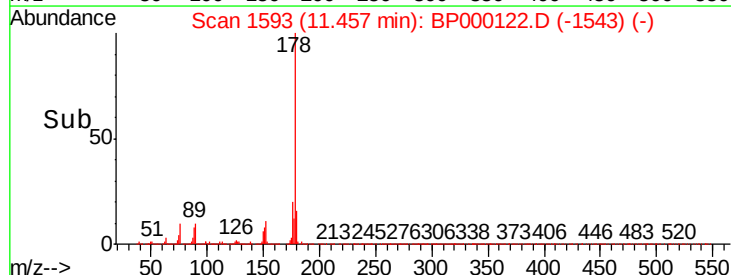
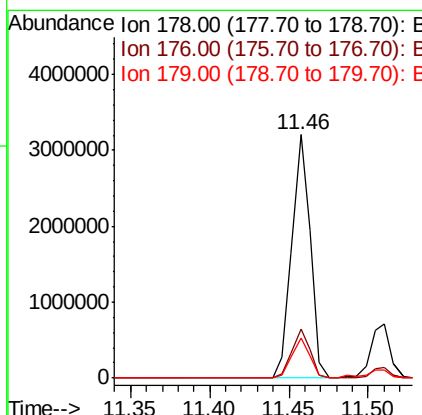
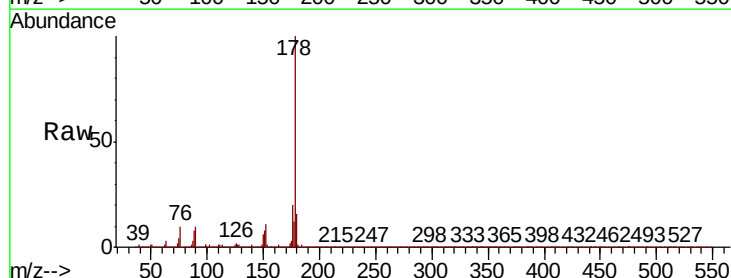
Manual Integrations
APPROVED

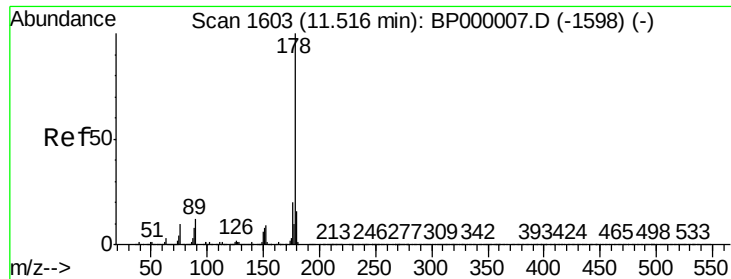
mohammad
9/10/2019 2:51:30 PM



#71
Phenanthrene
Concen: 32.132 ng
RT: 11.46 min Scan# 1593
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.7	25.1
179	16.2	13.1	19.7





#72

Anthracene

Concen: 7.673 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

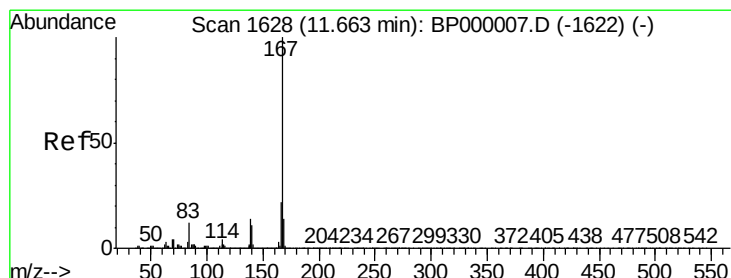
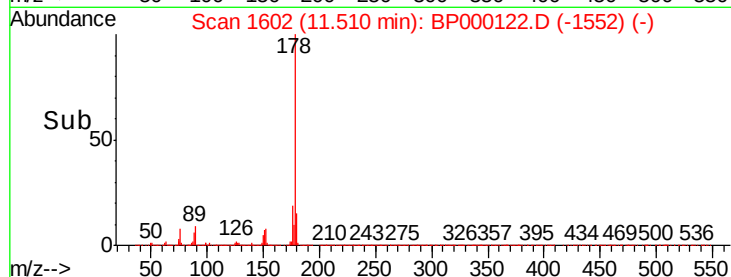
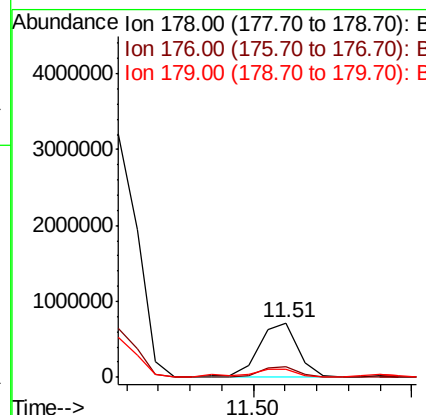
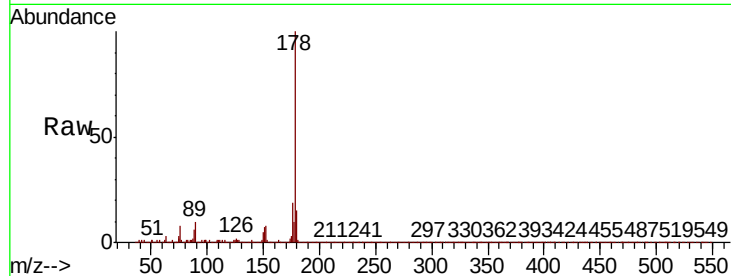
ClientSampleId :

SB-21-COMP

Tot Ion:	178	Resp:	610065
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.9	23.9
179	15.5	13.0	19.6

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM



#73

Carbazole

Concen: 2.812 ng

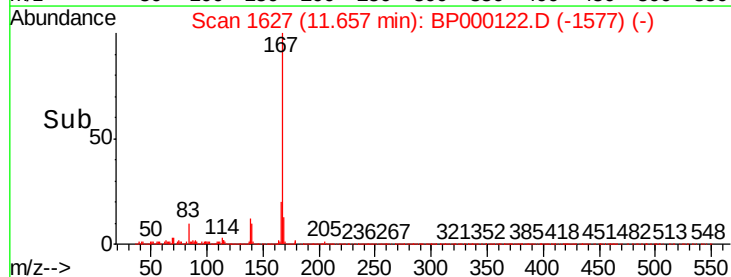
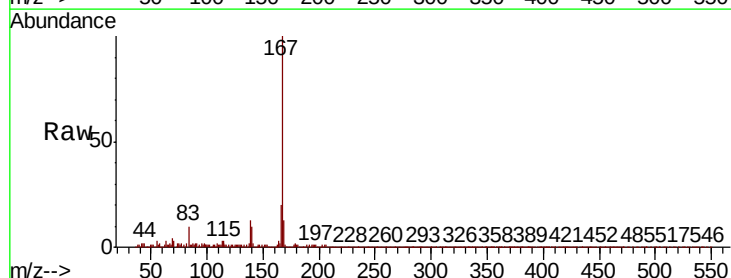
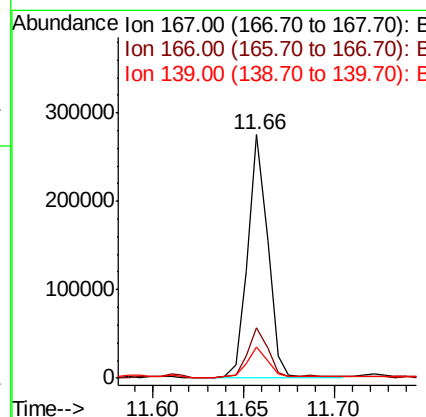
RT: 11.66 min Scan# 1627

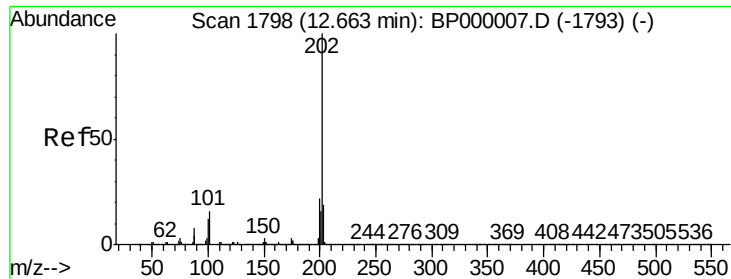
Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion:	167	Resp:	211031
Ion Ratio	Lower	Upper	
167	100		
166	20.5	17.9	26.9
139	12.6	11.4	17.2





#75

Fluoranthene

Concen: 46.266 ng

RT: 12.66 min Scan# 1798

Delta R.T. 0.00 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

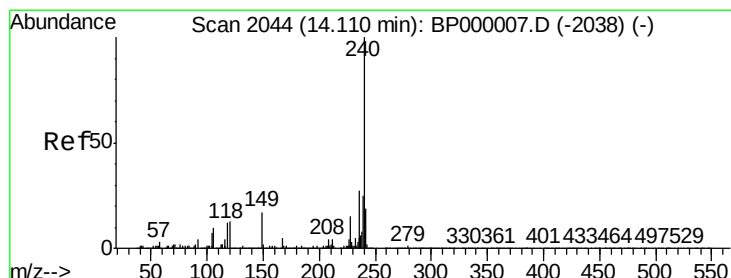
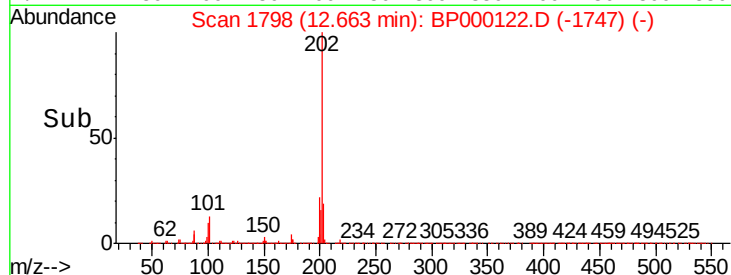
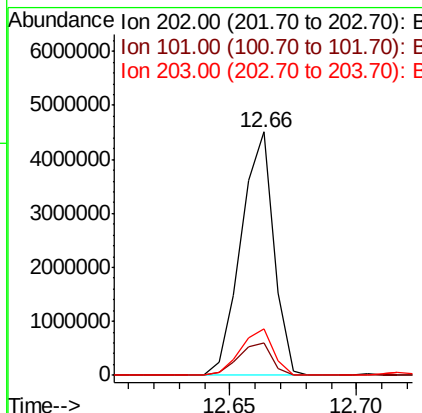
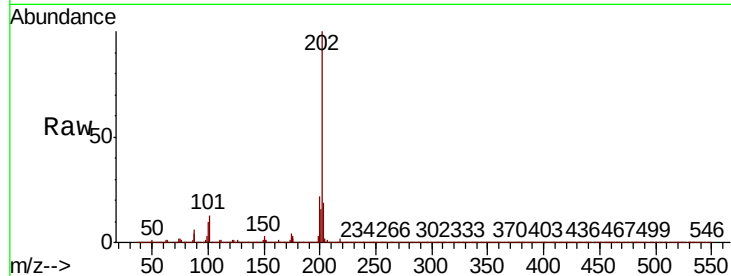
ClientSampleId :

SB-21-COMP

Tot Ion:	202	Resp:	4046709
Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	36.4
203	19.0	0.0	38.7

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM



#76

Chrysene-d12

Concen: 20.000 ng

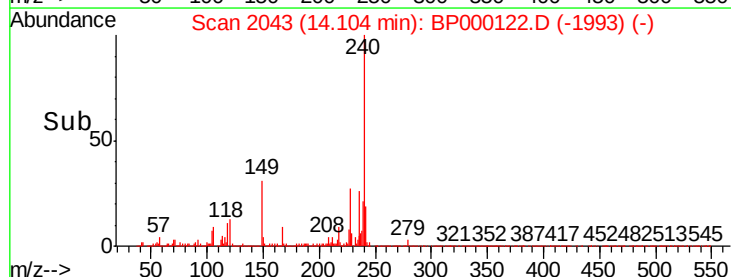
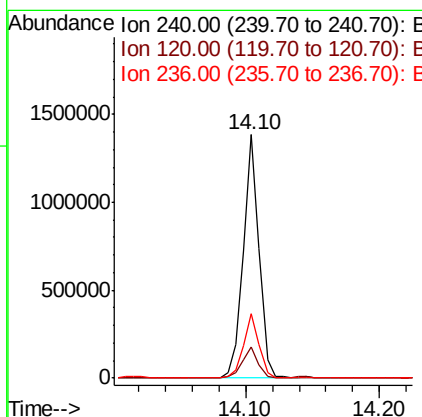
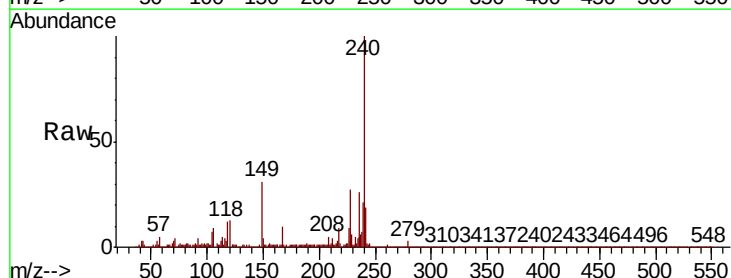
RT: 14.10 min Scan# 2043

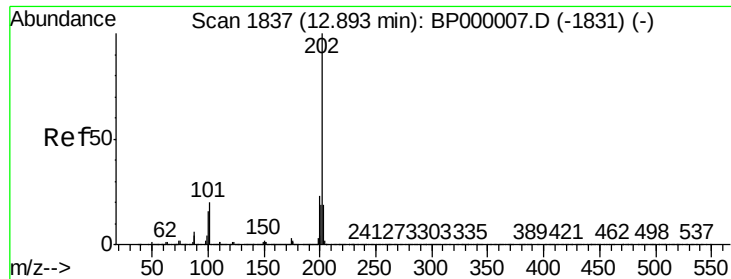
Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion:	240	Resp:	1129930
Ion	Ratio	Lower	Upper
240	100		
120	12.9	10.5	15.7
236	26.3	21.5	32.3





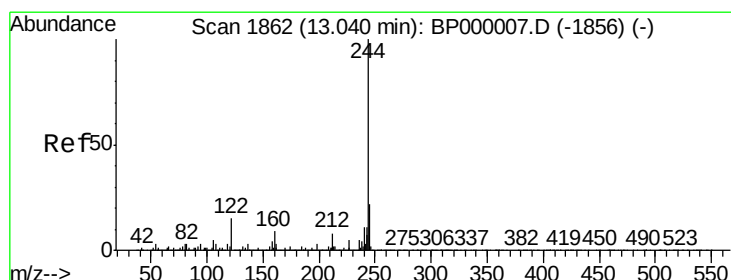
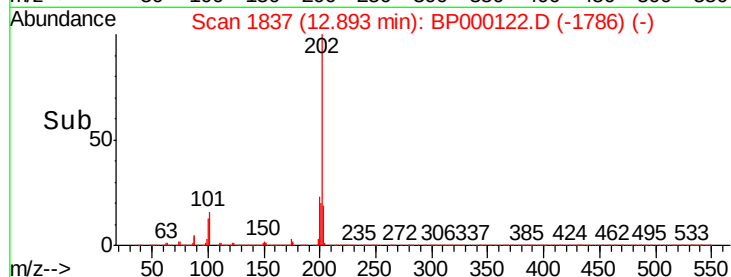
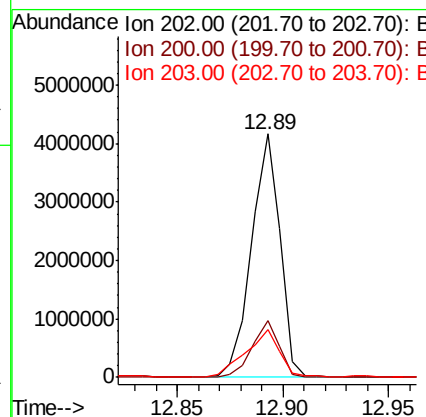
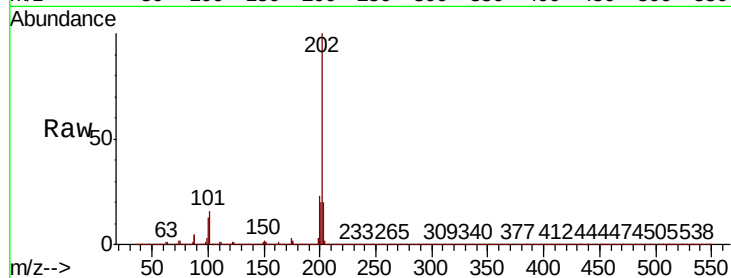
#78
Pvrene
Concen: 47.153 ng
RT: 12.89 min Scan# 1837
Delta R.T. 0.00 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.3	18.5	27.7
203	19.6	15.1	22.7

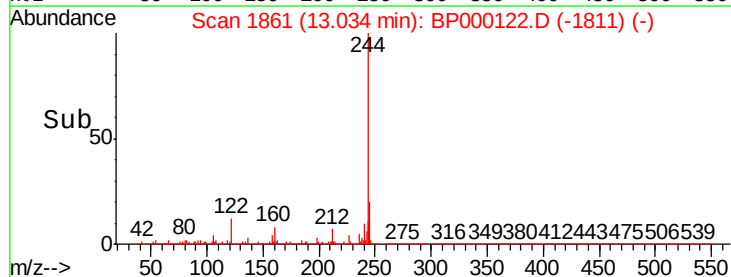
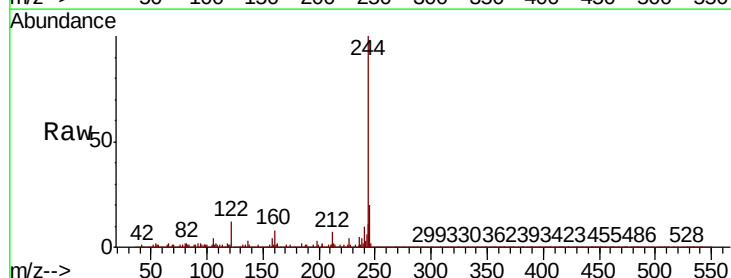
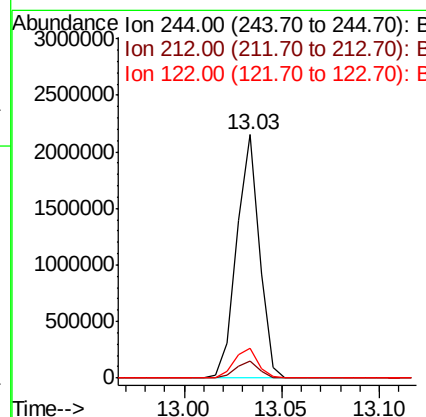
Manual Integrations
APPROVED

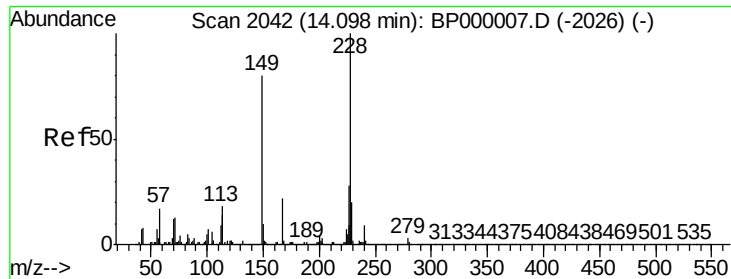
mohammad
9/10/2019 2:51:30 PM



#79
Terphenyl-d14
Concen: 33.406 ng
RT: 13.03 min Scan# 1861
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.6	10.0
122	12.1	12.3	18.5





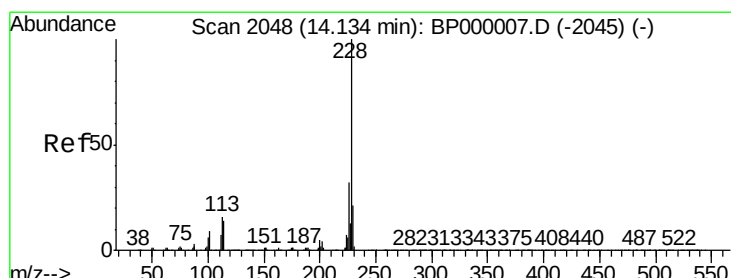
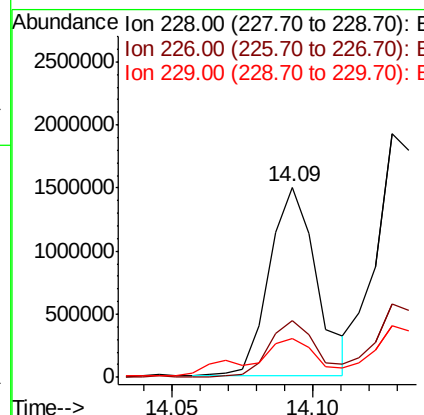
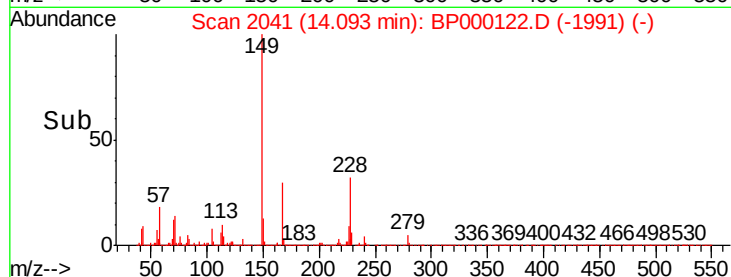
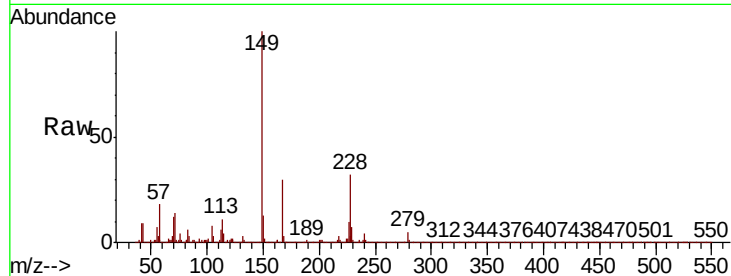
#81
Benzo(a)anthracene
Concen: 23.804 ng
RT: 14.09 min Scan# 2041
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampled :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.5	33.7
229	20.7	16.2	24.2

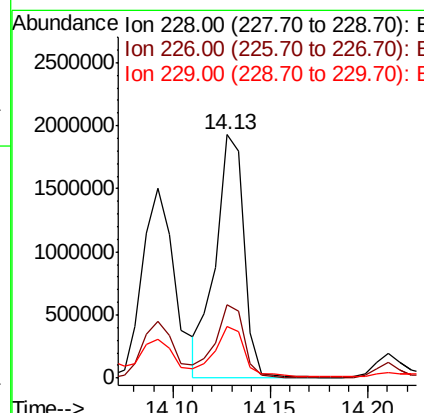
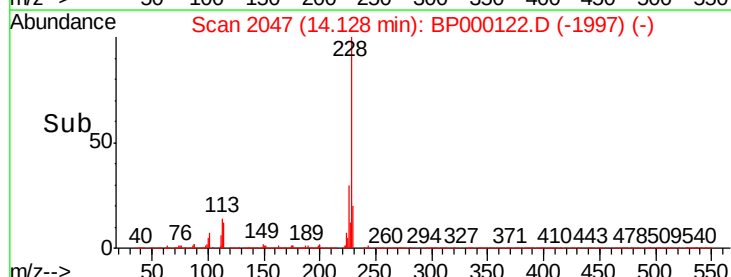
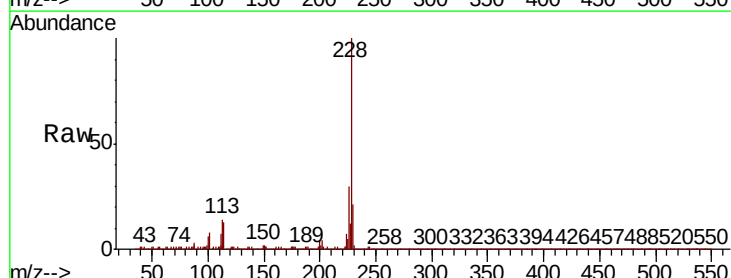
Manual Integrations
APPROVED

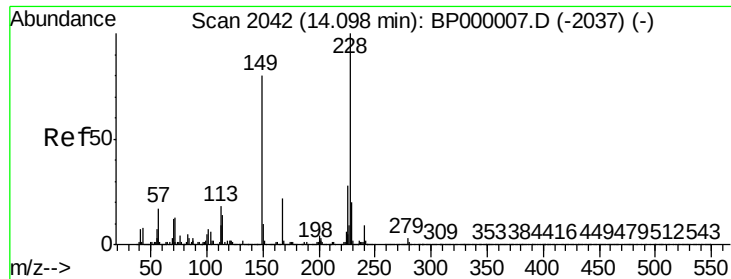
mohammad
9/10/2019 2:51:30 PM



#83
Chrysene
Concen: 27.947 ng
RT: 14.13 min Scan# 2047
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.5	38.3
229	21.1	16.5	24.7





#84

Bis(2-ethylhexyl)phthalate

Concen: 101.178 ng

RT: 14.09 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

ClientSampleId :

SB-21-COMP

Tot Ion:149 Resp: 4876641

Ion Ratio Lower Upper

149 100

167 30.2 22.4 33.6

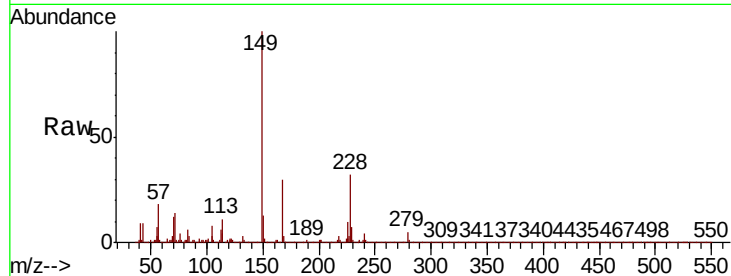
279 5.2 3.1 4.7#

Manual Integrations

APPROVED

mohammad

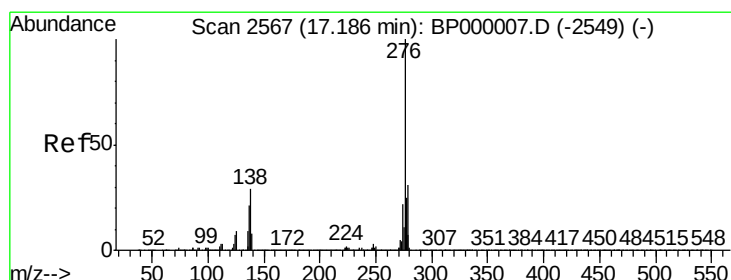
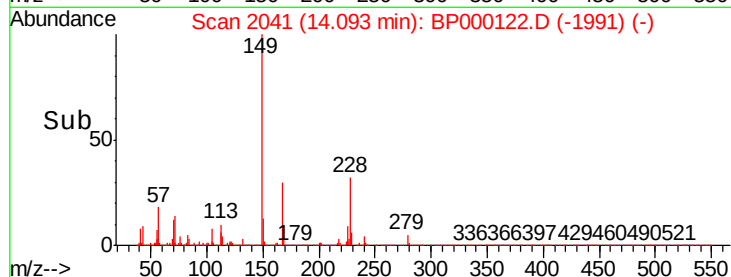
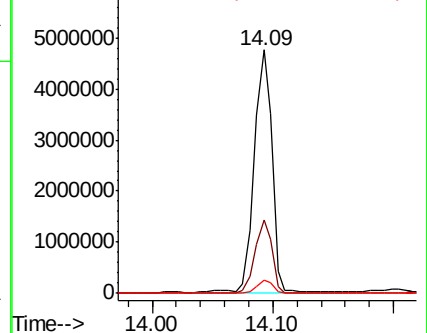
9/10/2019 2:51:30 PM



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 13.111 ng

RT: 17.17 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion:276 Resp: 1137798

Ion Ratio Lower Upper

276 100

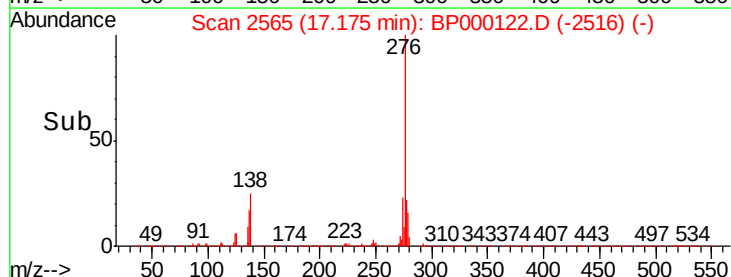
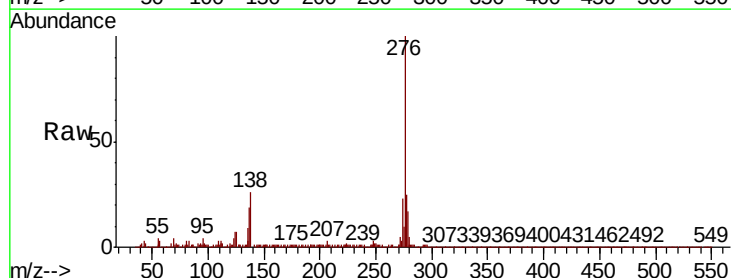
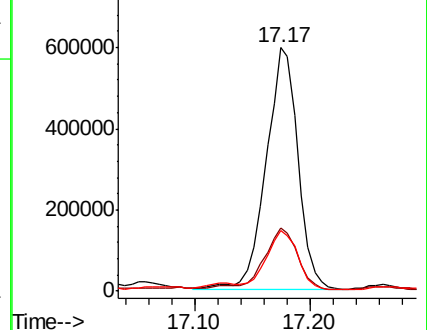
138 27.3 26.5 39.7

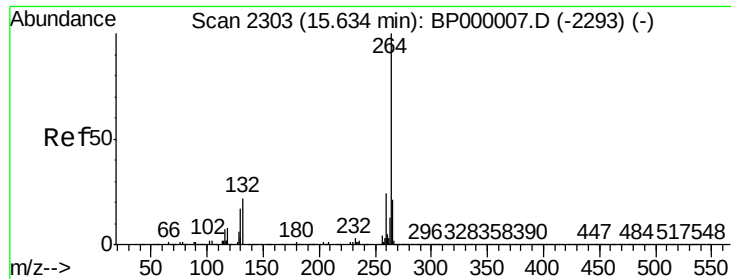
277 24.8 20.3 30.5

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





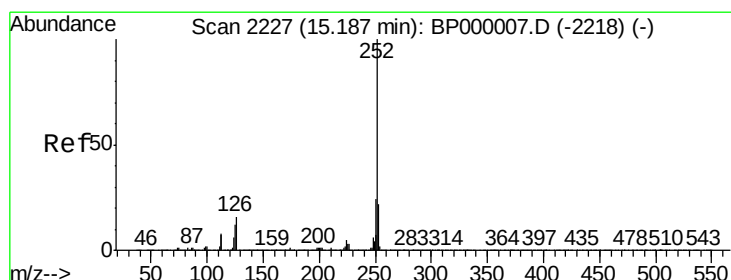
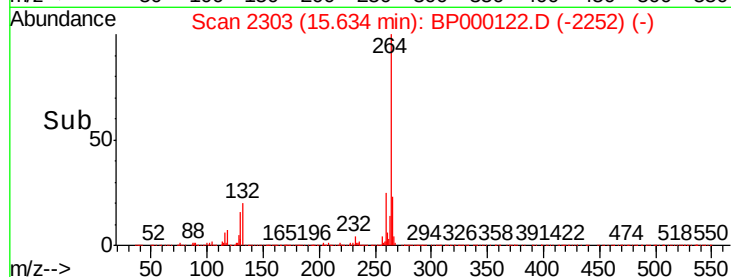
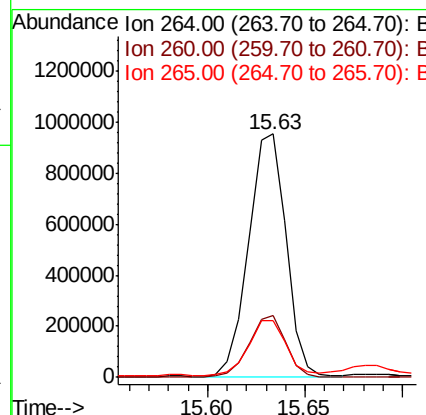
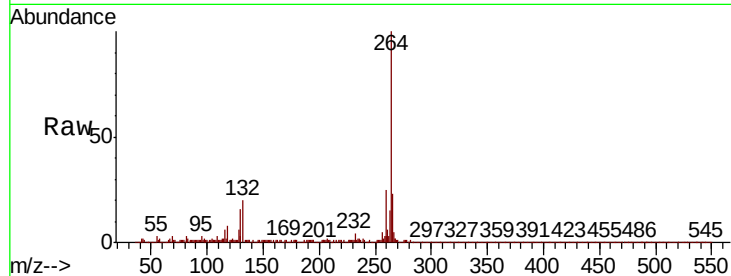
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.63 min Scan# 2303
Delta R.T. 0.00 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.1	28.7
265	23.5	17.1	25.7

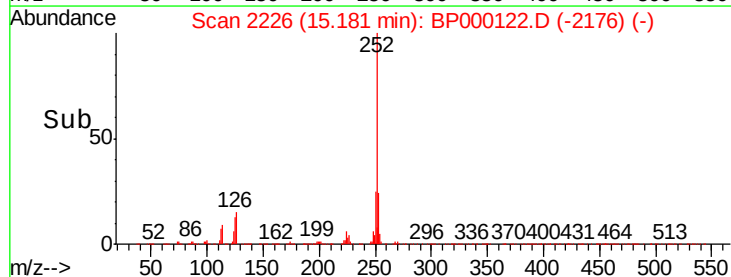
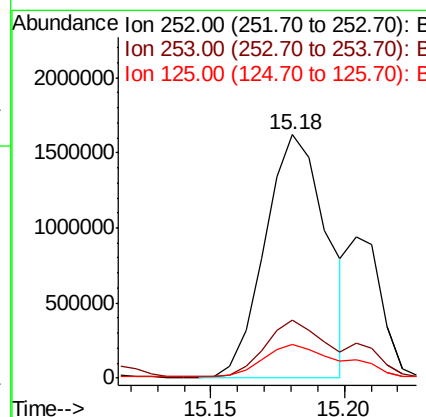
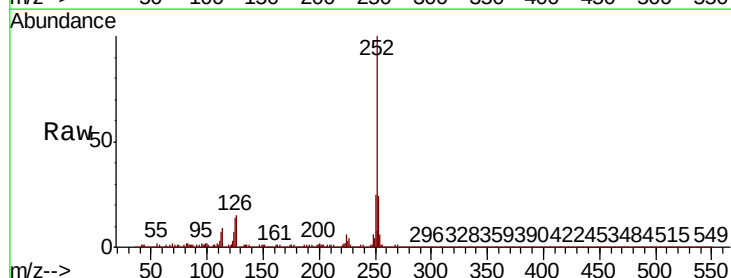
Manual Integrations
APPROVED

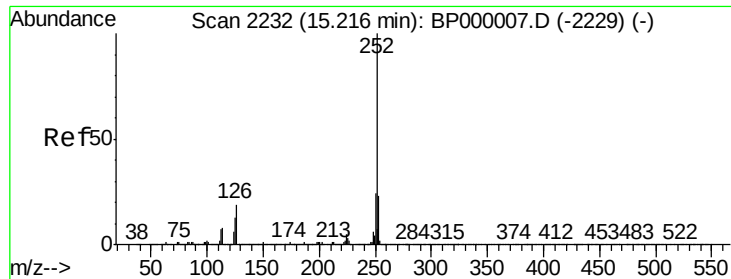
mohammad
9/10/2019 2:51:30 PM



#88
Benzo(b)fluoranthene
Concen: 33.856 ng m
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	13.7	9.4	14.2





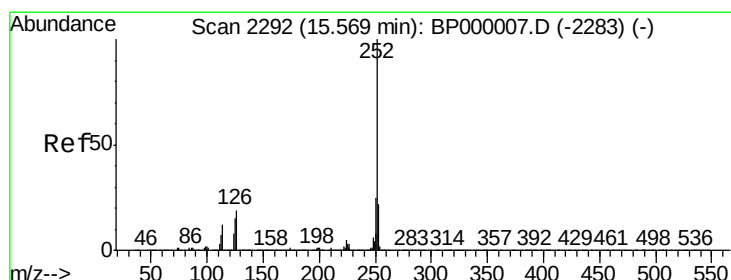
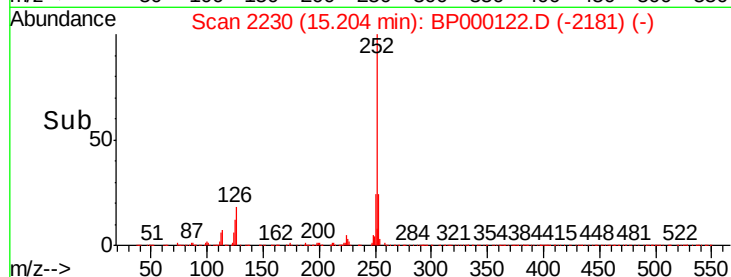
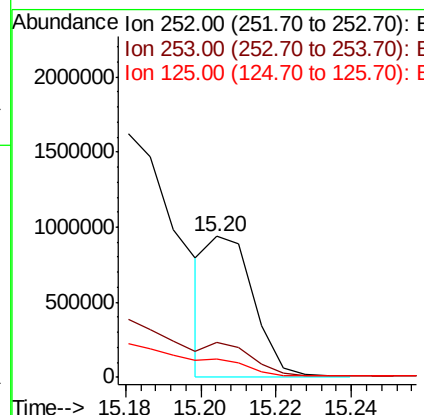
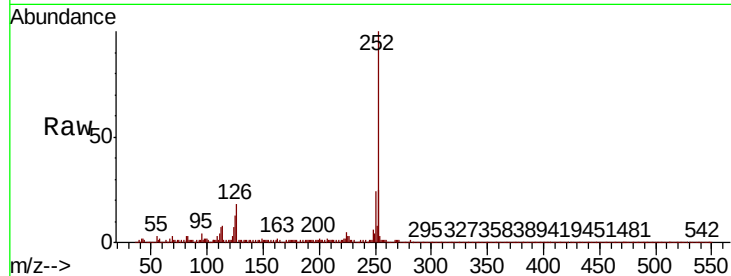
#89
Benzo(k)fluoranthene
Concen: 11.329 ng m
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Instrument :
BNA_P
ClientSampleId :
SB-21-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.0	27.0
125	13.4	10.3	15.5

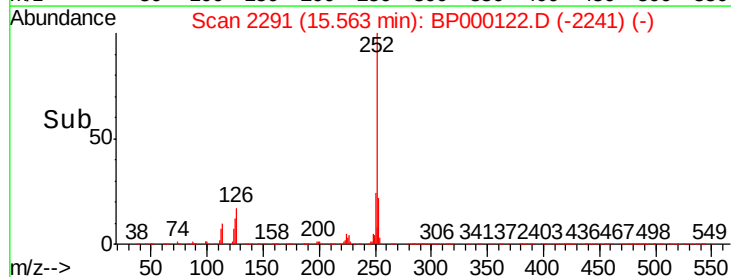
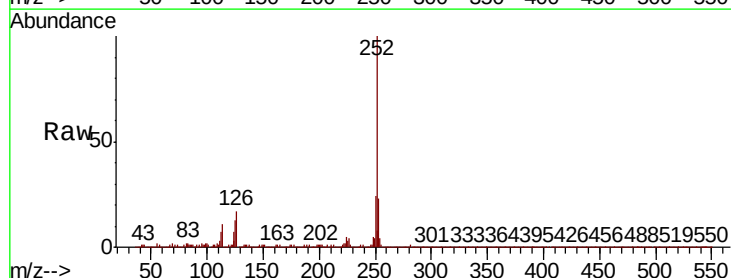
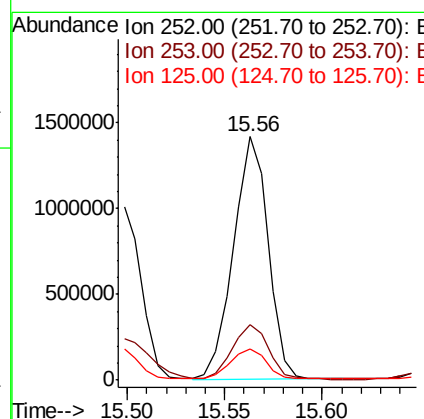
Manual Integrations
APPROVED

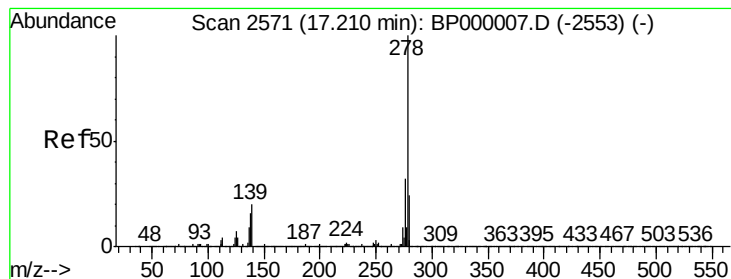
mohammad
9/10/2019 2:51:30 PM



#90
Benzo(a)pyrene
Concen: 24.932 ng
RT: 15.56 min Scan# 2291
Delta R.T. -0.01 min
Lab File: BP000122.D
Acq: 09 Sep 2019 04:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	13.0	11.7	17.5





#91

Dibenzo(a,h)anthracene

Concen: 4.164 ng

RT: 17.19 min Scan# 2567

Delta R.T. -0.02 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Instrument :

BNA_P

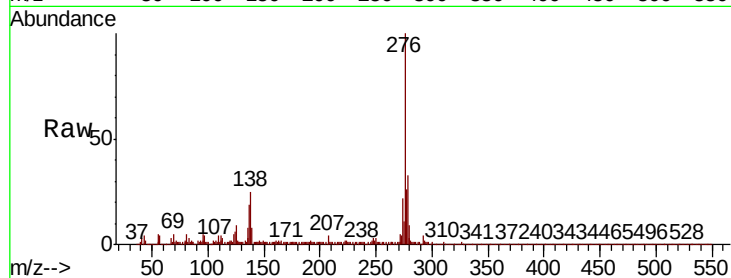
ClientSampleId :

SB-21-COMP

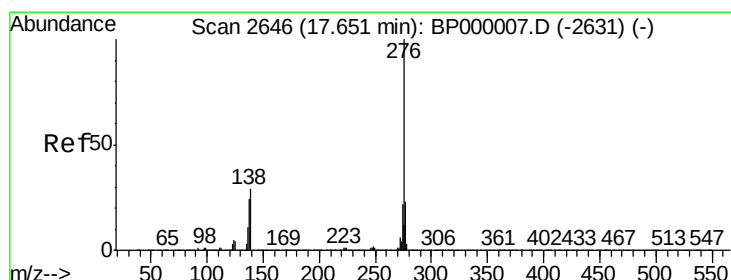
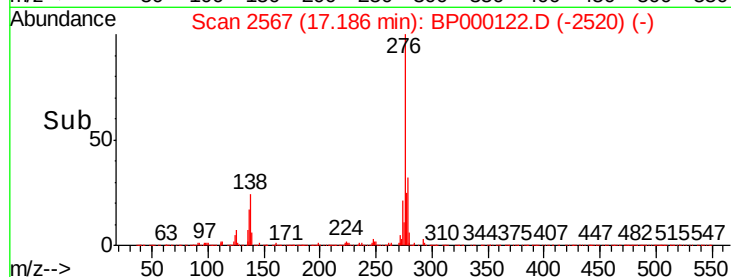
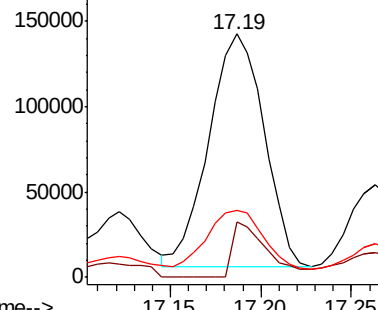
Tot Ion:	278	Resp:	290539
Ion Ratio	Lower	Upper	
278	100		
139	22.9	16.4	24.6
279	27.6	19.2	28.8

Manual Integrations
APPROVED

mohammad
9/10/2019 2:51:30 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 15.662 ng

RT: 17.65 min Scan# 2645

Delta R.T. -0.01 min

Lab File: BP000122.D

Acq: 09 Sep 2019 04:48

Tgt Ion:	276	Resp:	1081717
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.6	28.0
138	25.3	23.0	34.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

