

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011320\
 Data File : BF118544.D
 Acq On : 13 Jan 2020 21:34
 Operator : JU
 Sample : L1103-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-MW-16(2-3.5)

Manual Integrations
 APPROVED

mohammad
 1/14/2020 2:31:52 PM

Quant Time: Jan 14 13:39:55 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 16:06:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	135233	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	506994	20.00	ng	-0.02
39) Acenaphthene-d10	9.86	164	250887	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	382838	20.00	ng	-0.02
76) Chrysene-d12	14.01	240	325405	20.00	ng	-0.03
87) Perylene-d12	15.49	264	323191	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	803165	98.04	ng	-0.01
7) Phenol-d6	6.46	99	989565	101.03	ng	-0.02
23) Nitrobenzene-d5	7.38	82	545078	56.48	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	271819	91.82	ng	-0.02
45) 2-Fluorobiphenyl	9.18	172	1146722	65.55	ng	-0.02
79) Terphenyl-d14	12.95	244	1128229	54.94	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.47	94	26546	2.446	ng	85
31) Naphthalene	8.12	128	257280	9.701	ng	99
32) Benzoic acid	7.88	122	5964	7.657	ng	# 80
37) 2-Methylnaphthalene	8.82	142	63521	3.490	ng	100
49) Acenaphthylene	9.72	152	229324	9.495	ng	98
50) Dimethylphthalate	9.57	163	121949	6.333	ng	99
58) Fluorene	10.41	166	44304	2.488	ng	98
71) Phenanthrene	11.38	178	651839	30.394	ng	99
72) Anthracene	11.43	178	168515	7.898	ng	99
75) Fluoranthene	12.57	202	906640	41.593	ng	99
78) Pyrene	12.81	202	1279770	47.801	ng	99
81) Benzo(a)anthracene	14.00	228	717501m	31.502	ng	
83) Chrysene	14.04	228	809303	36.565	ng	97
86) Indeno(1,2,3-cd)pyrene	16.99	276	435513	24.441	ng	95
88) Benzo(b)fluoranthene	15.06	252	911810m	39.023	ng	
89) Benzo(k)fluoranthene	15.09	252	268707m	12.048	ng	
90) Benzo(a)pyrene	15.43	252	671554	35.071	ng	99
91) Dibenzo(a,h)anthracene	16.99	278	96932	5.399	ng	# 80
92) Benzo(a,h,i)perylene	17.44	276	483247	28.405	ng	97

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

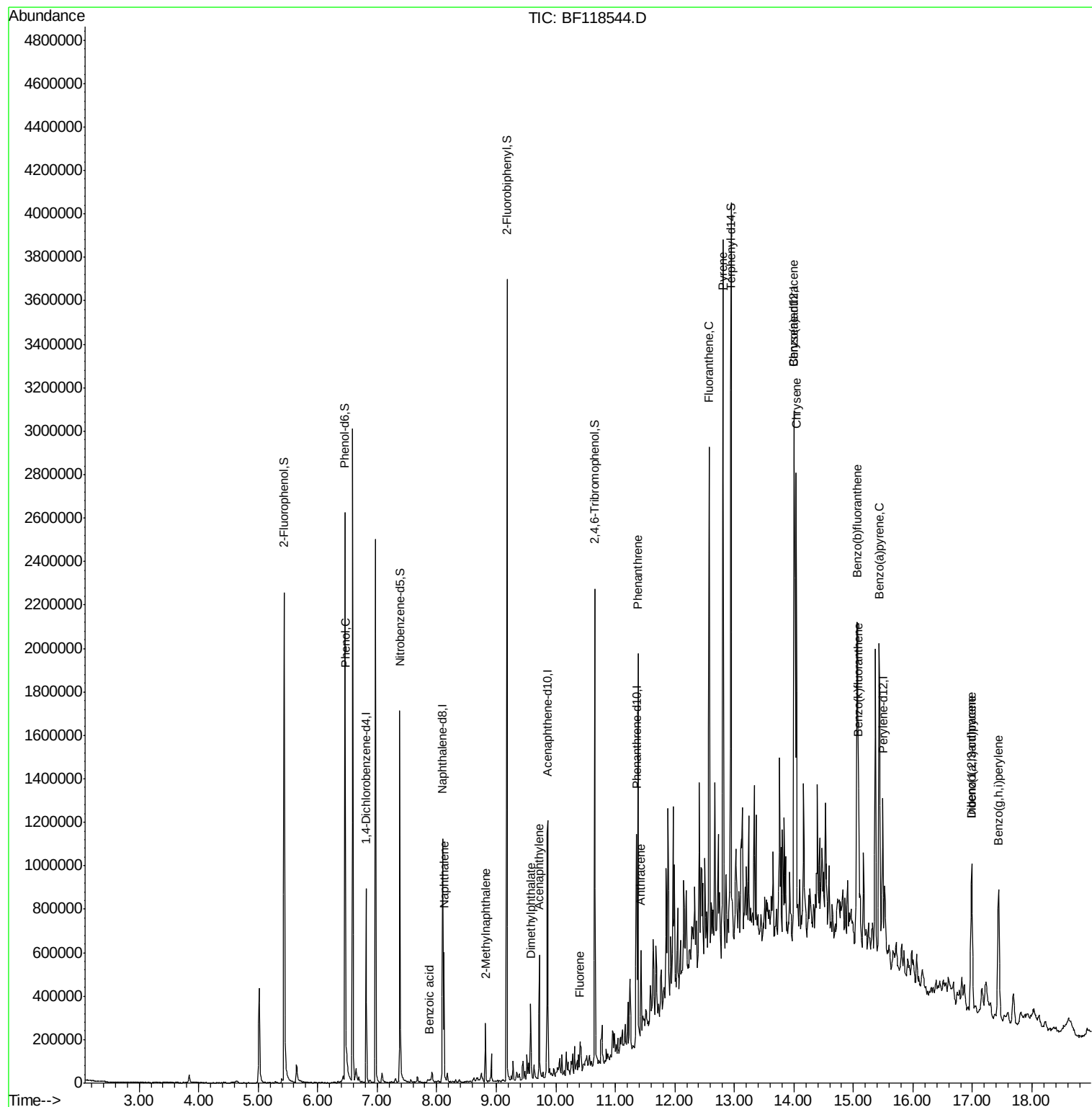
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011320\
Data File : BF118544.D
Acq On : 13 Jan 2020 21:34
Operator : JU
Sample : L1103-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

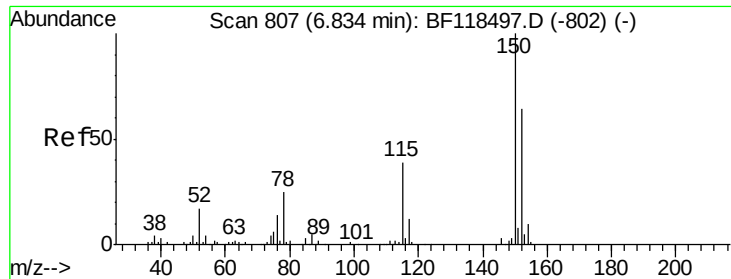
Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM

Quant Time: Jan 14 13:39:55 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 16:06:11 2020
Response via : Initial Calibration





#1

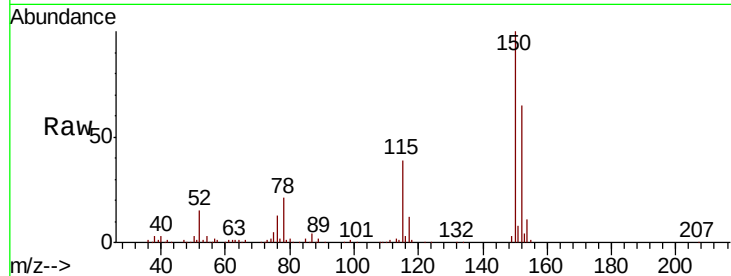
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.7	187.1
115	60.7	49.0	73.6

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM

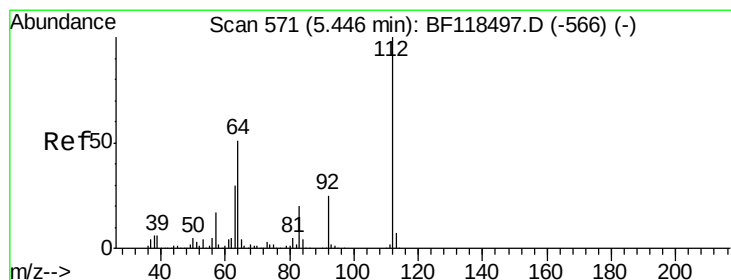
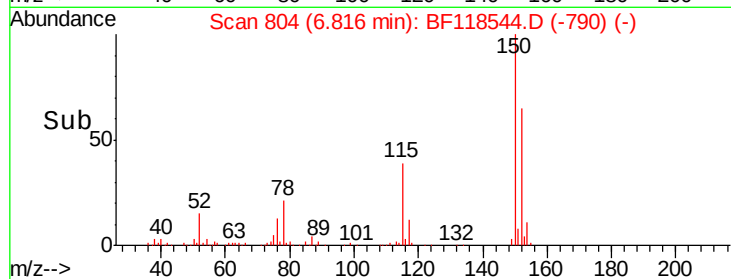
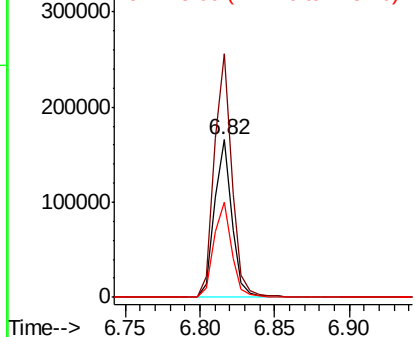


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

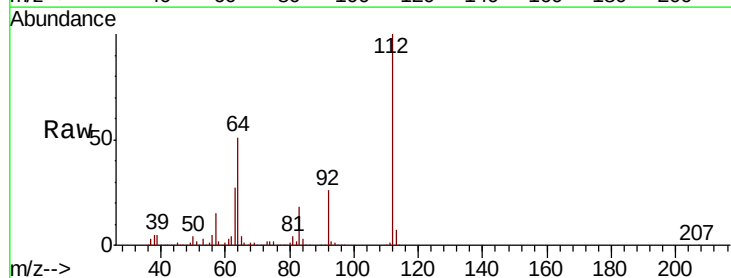
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 98.040 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.9	41.1	61.7
63	27.2	24.1	36.1

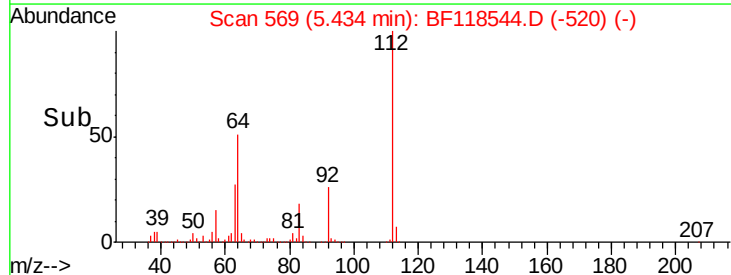
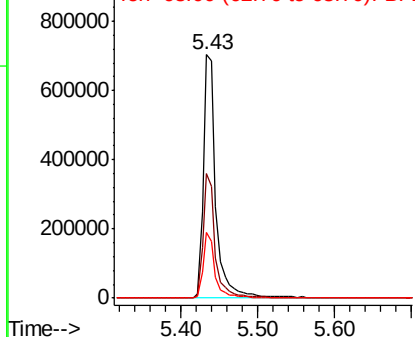


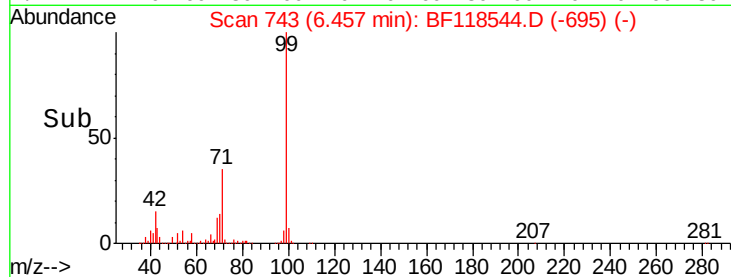
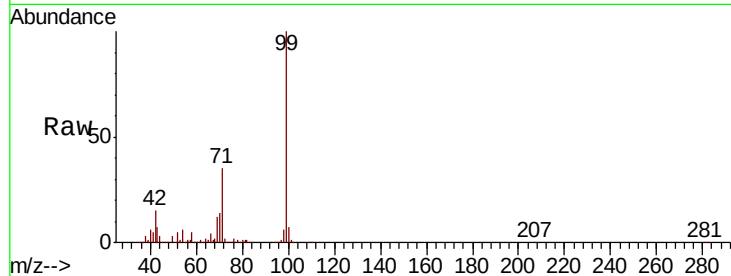
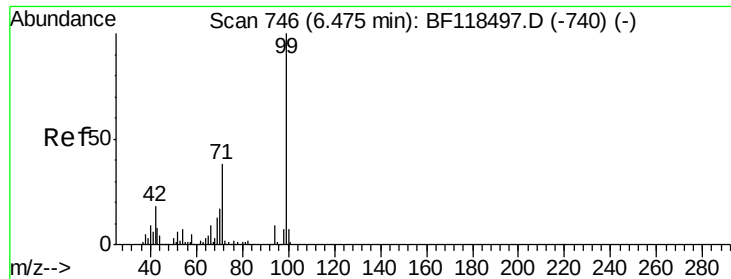
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 101.035 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Tot Ion:	99	Resp:	989565
Ion Ratio	Lower	Upper	
99	100		
42	15.0	14.5	21.7
71	35.0	30.6	45.8

Instrument :

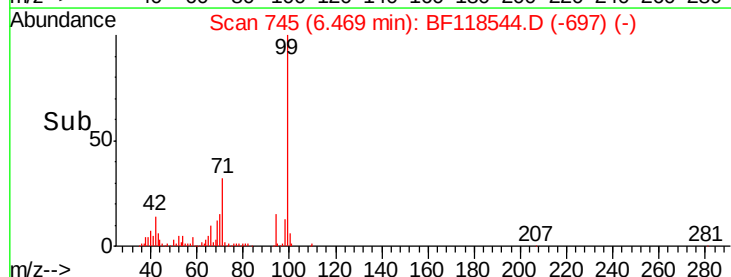
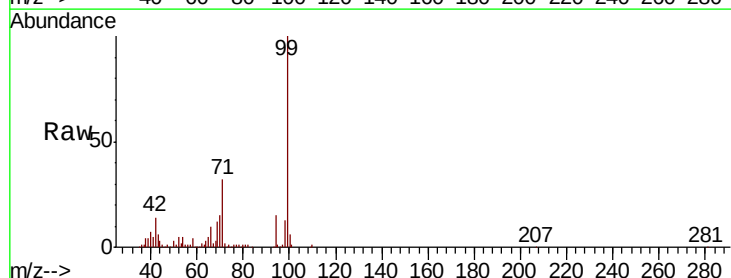
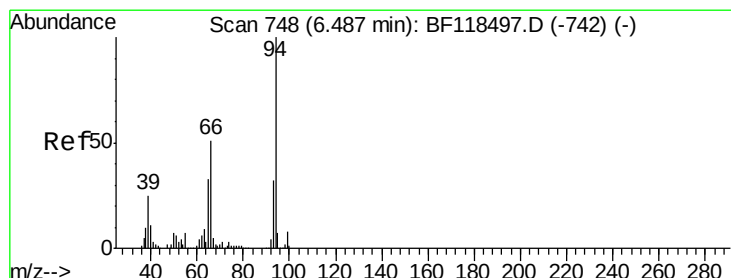
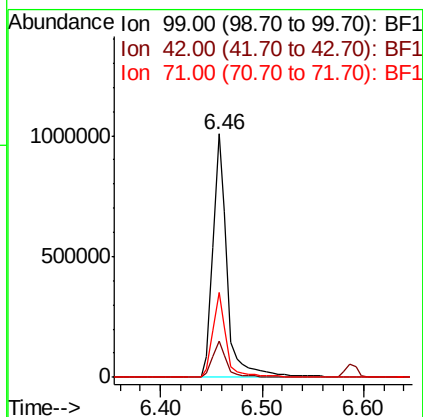
BNA_F

ClientSampleId :

SB-MW-16(2-3.5)

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM



#10

Phenol

Concen: 2.446 ng

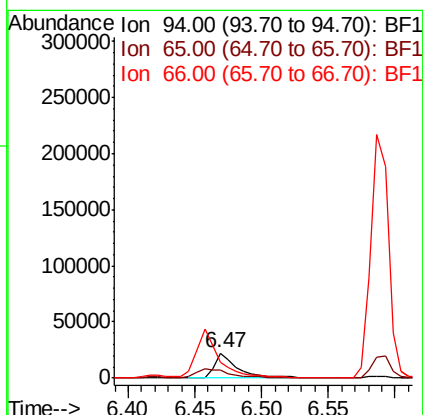
RT: 6.47 min Scan# 745

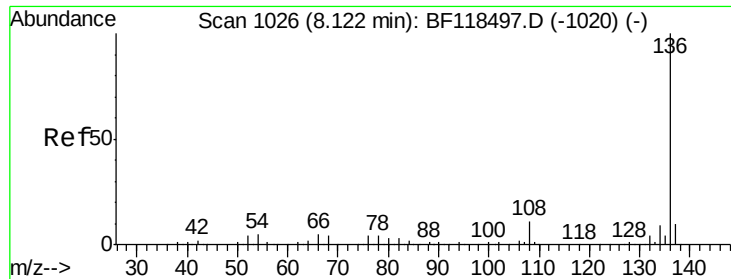
Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Tgt Ion:	94	Resp:	26546
Ion Ratio	Lower	Upper	
94	100		
65	30.0	13.3	53.3
66	65.4	30.9	70.9





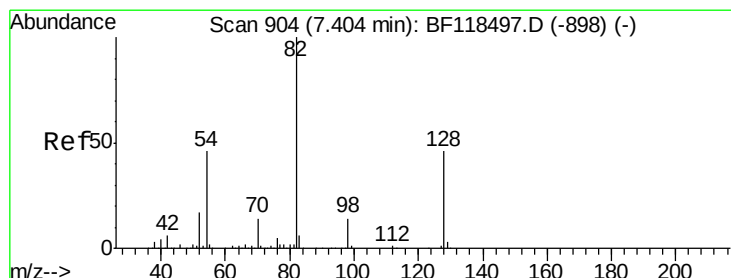
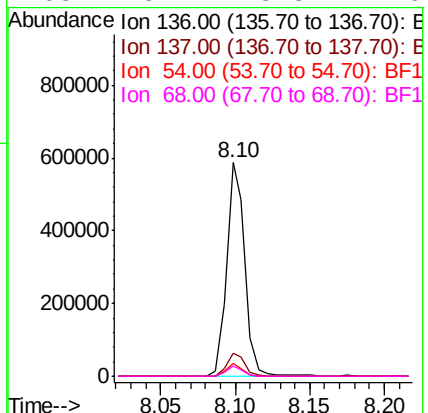
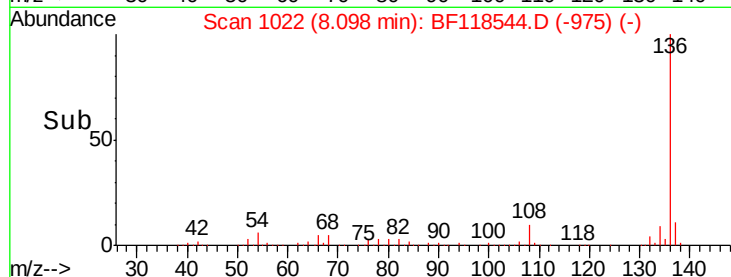
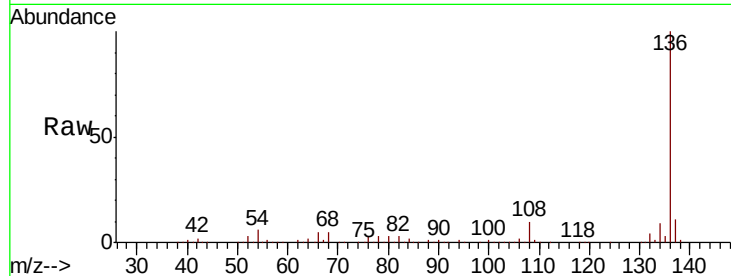
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Resp	Lower	Upper
136	100	506994		
137	10.7		8.3	12.5
54	5.9		4.2	6.2
68	5.1		3.3	4.9

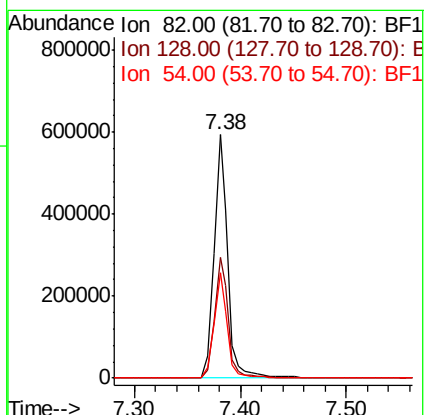
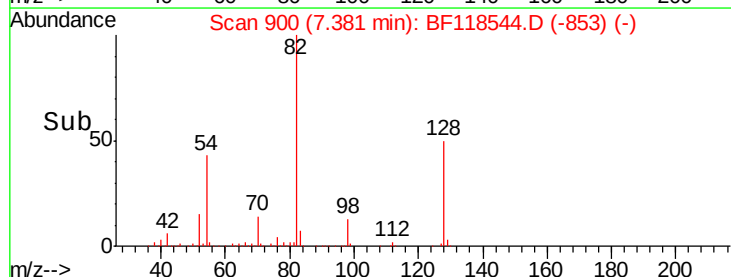
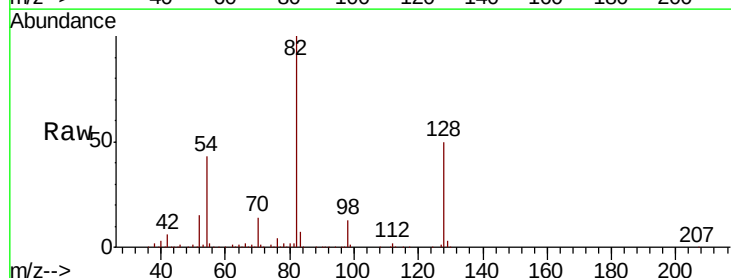
Manual Integrations
APPROVED

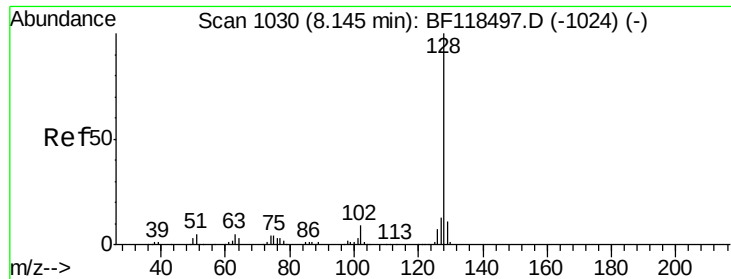
mohammad
1/14/2020 2:31:52 PM



#23
Nitrobenzene-d5
Concen: 56.477 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	545078		
128	49.9		36.6	54.8
54	43.2		37.0	55.6





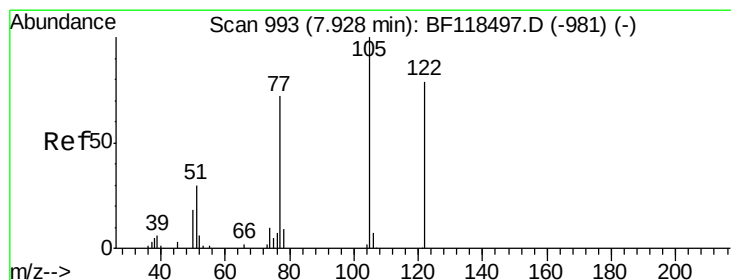
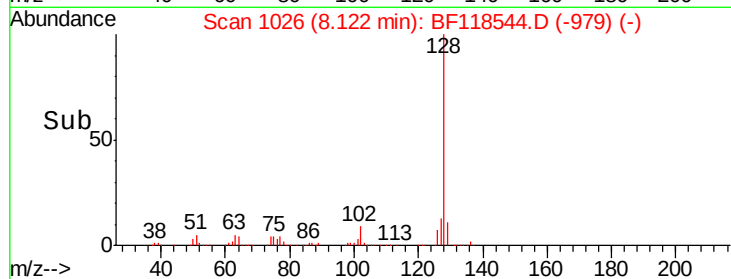
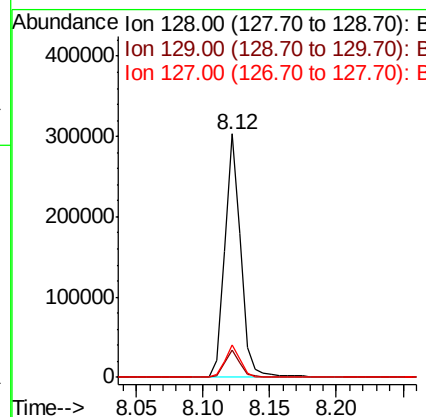
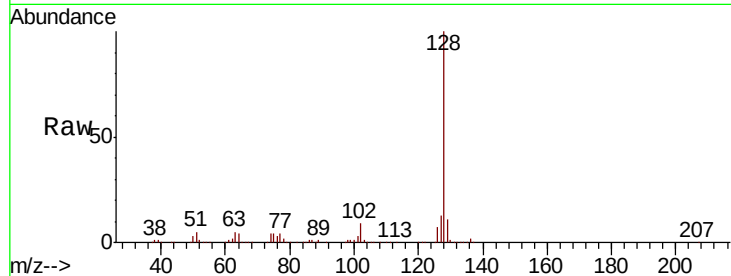
#31
Naphthalene
Concen: 9.701 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	12.8
127	13.4	10.7	16.1

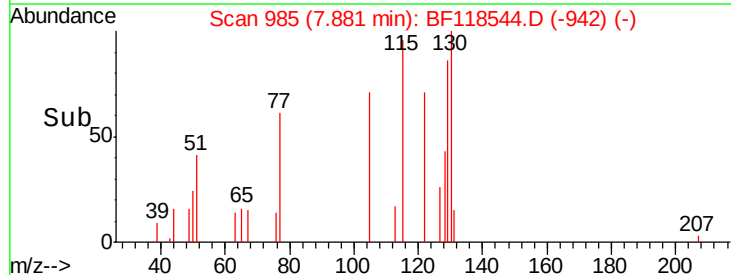
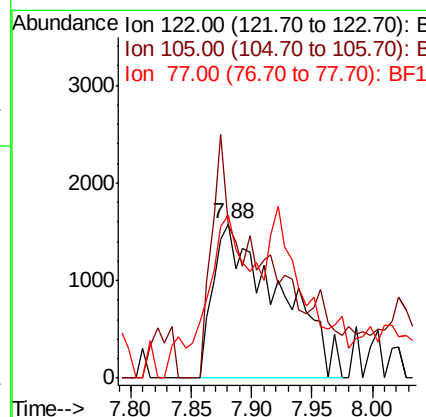
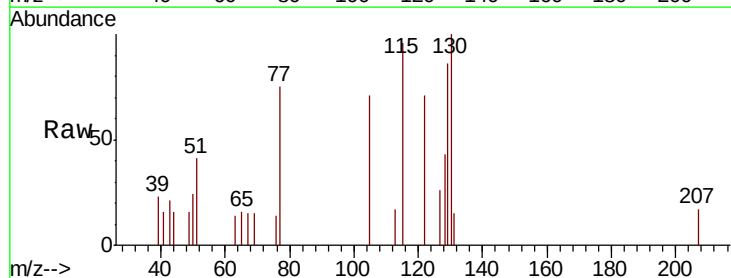
Manual Integrations
APPROVED

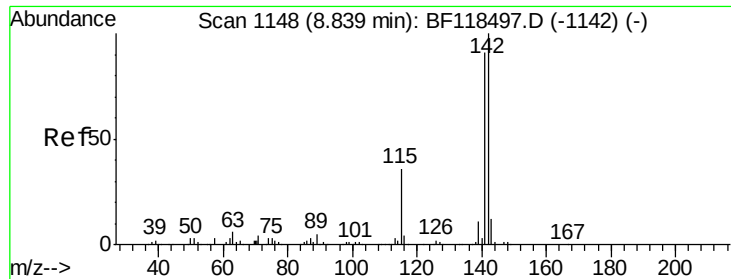
mohammad
1/14/2020 2:31:52 PM



#32
Benzoic acid
Concen: 7.657 ng
RT: 7.88 min Scan# 985
Delta R.T. -0.05 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
122	100		
105	99.2	105.7	145.7#
77	105.8	71.0	111.0





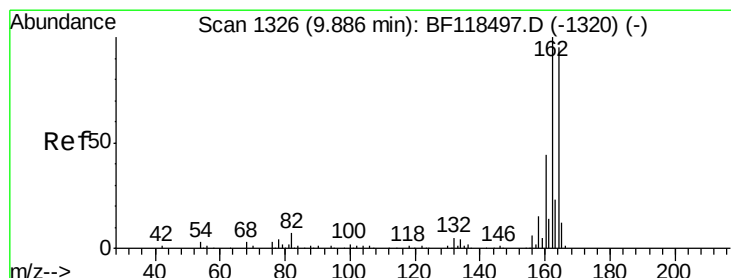
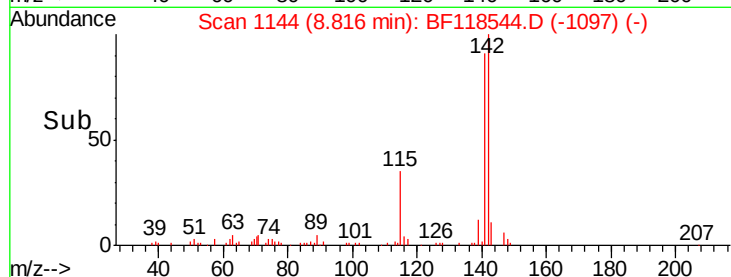
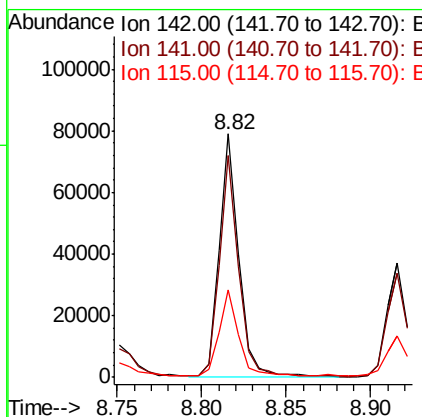
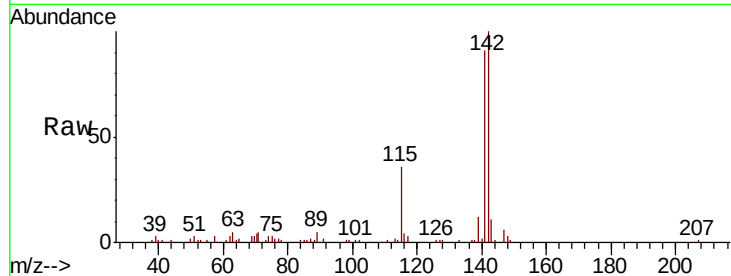
#37
2-Methylnaphthalene
Concen: 3.490 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.0	109.6
115	35.8	28.4	42.6

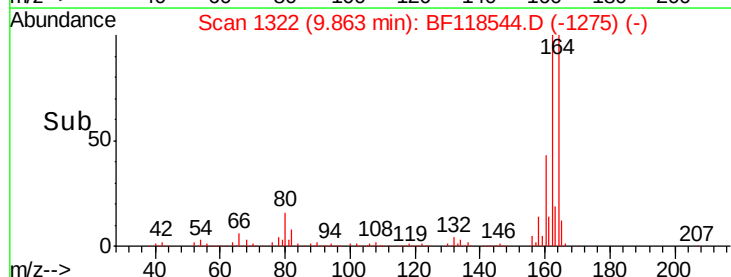
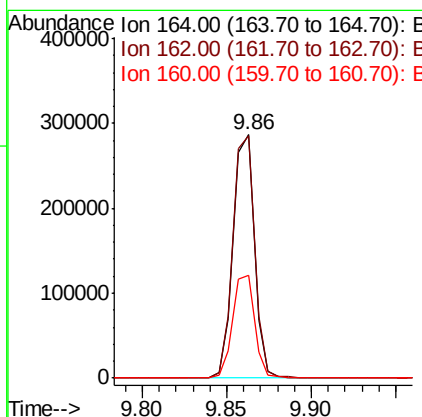
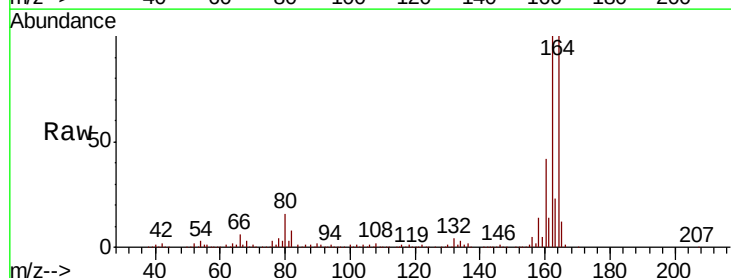
Manual Integrations
APPROVED

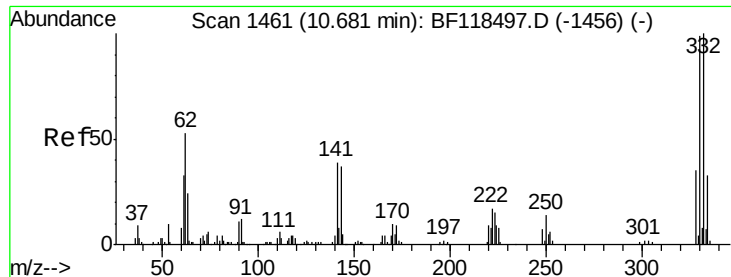
mohammad
1/14/2020 2:31:52 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.6	84.2	126.4
160	42.4	36.8	55.2





#42

2,4,6-Tribromophenol

Concen: 91.818 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Instrument :

BNA_F

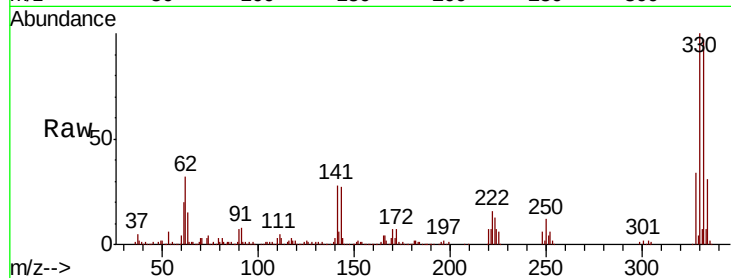
ClientSampleId :

SB-MW-16(2-3.5)

Tot Ion:	330	Resp:	271819
Ion Ratio	Lower	Upper	
330	100		
332	96.9	77.9	116.9
141	30.4	28.6	43.0

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM

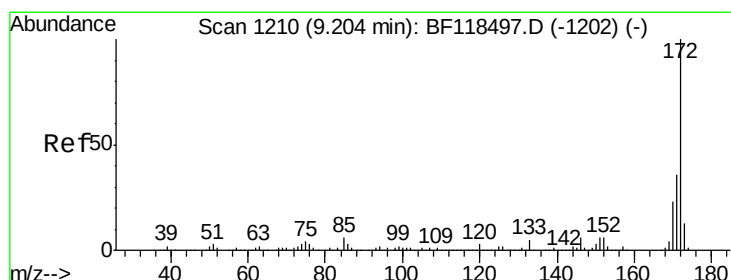
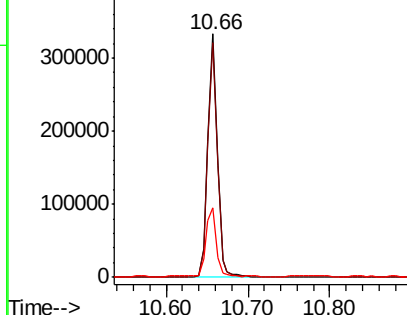
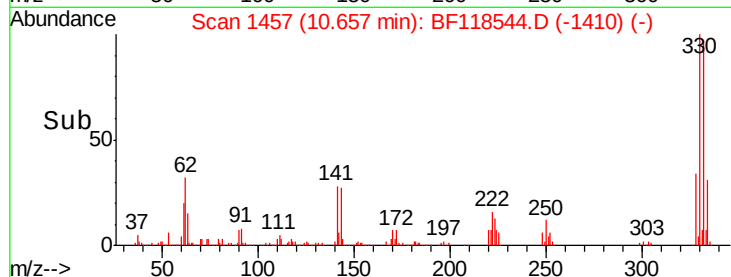


Abundance

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: 65.553 ng

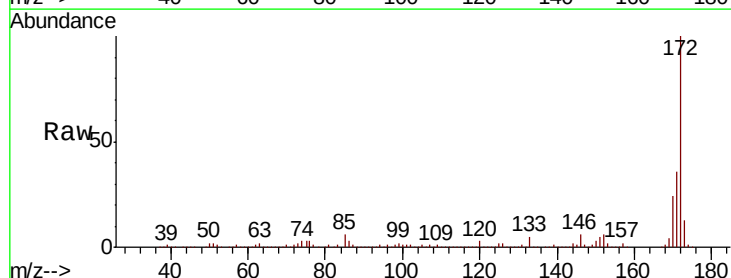
RT: 9.18 min Scan# 1206

Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Tgt Ion:	172	Resp:	1146722
Ion Ratio	Lower	Upper	
172	100		
171	35.8	28.6	42.8
170	23.6	18.6	27.8

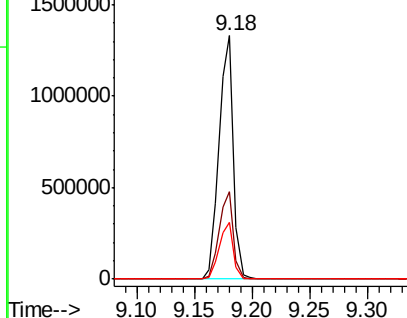
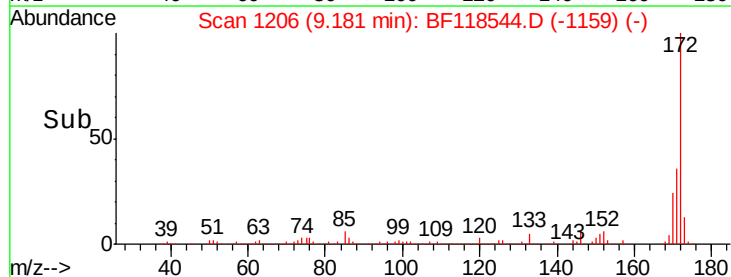


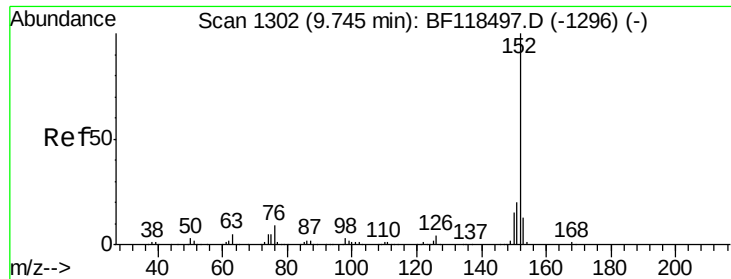
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 9.495 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Instrument :

BNA_F

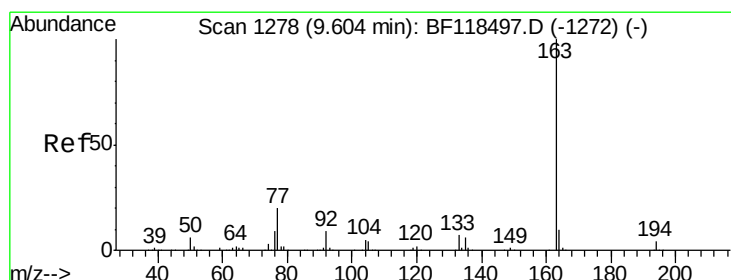
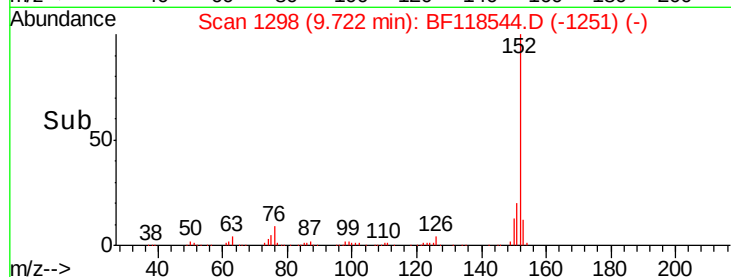
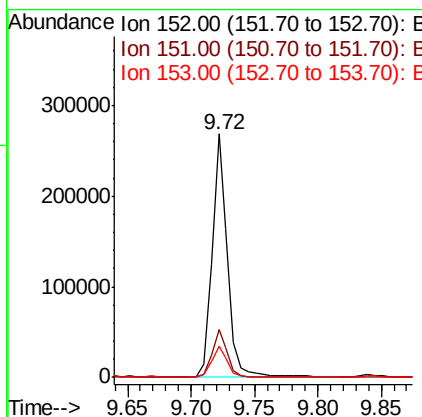
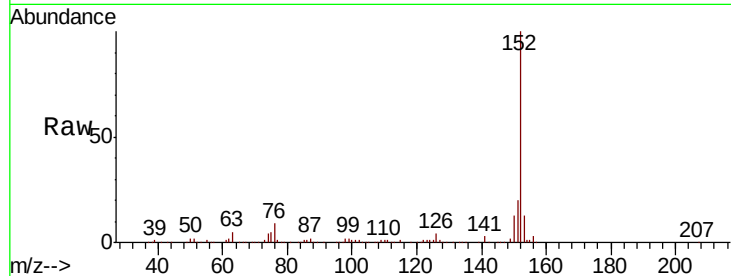
ClientSampleId :

SB-MW-16(2-3.5)

Tot Ion:	152	Resp:	229324
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	12.7	10.6	16.0

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM



#50

Dimethylphthalate

Concen: 6.333 ng

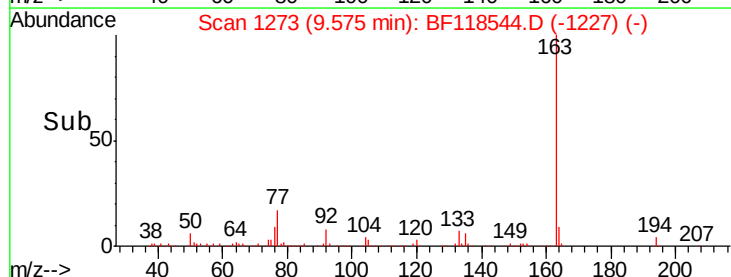
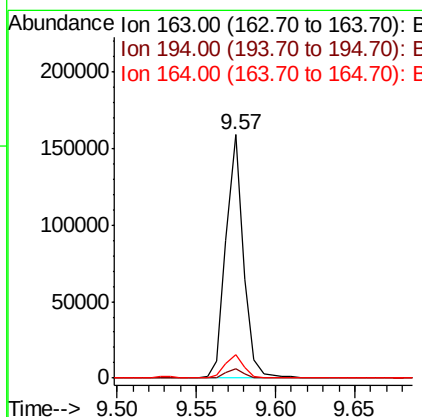
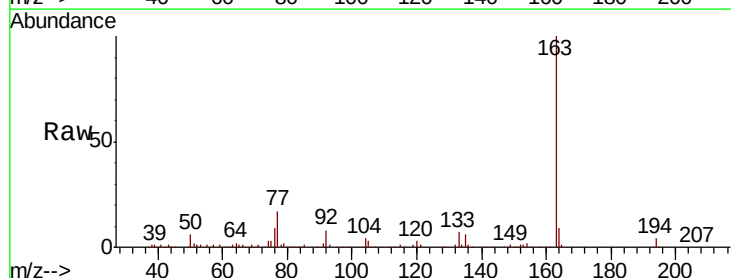
RT: 9.57 min Scan# 1273

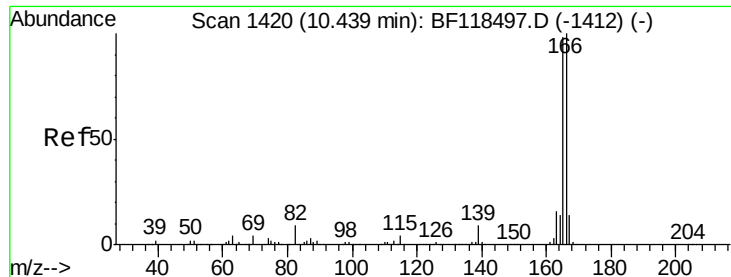
Delta R.T. -0.03 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Tgt Ion:	163	Resp:	121949
Ion Ratio	Lower	Upper	
163	100		
194	3.8	3.0	4.6
164	9.5	8.1	12.1





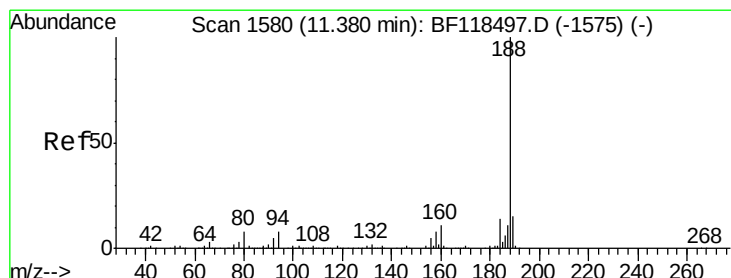
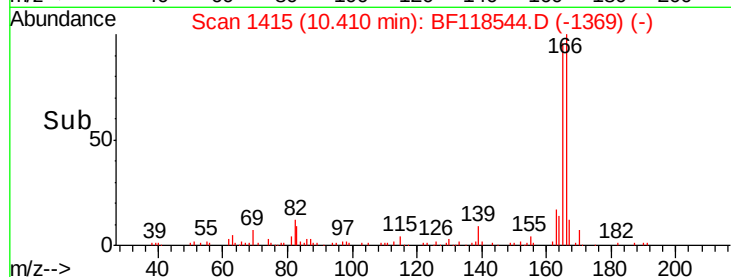
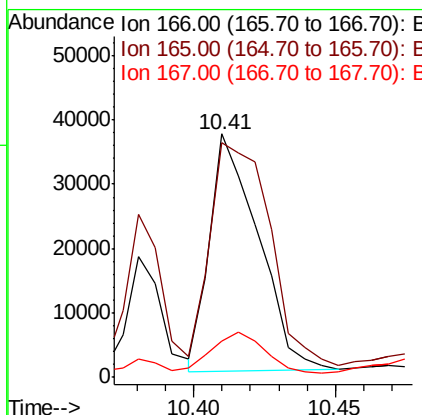
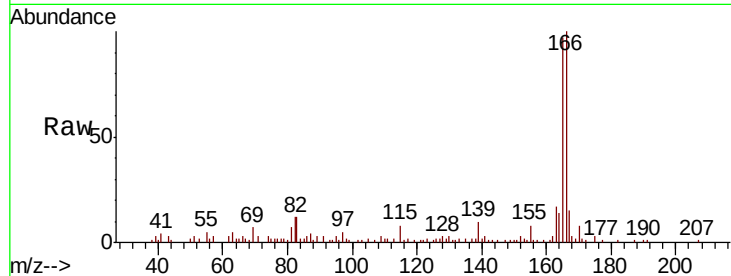
#58
 Fluorene
 Concen: 2.488 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. -0.03 min
 Lab File: BF118544.D
 Acq: 13 Jan 2020 21:34

Instrument :
 BNA_F
 ClientSampleId :
 SB-MW-16(2-3.5)

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	96.6	78.6	117.8	
167	14.8	10.8	16.2	

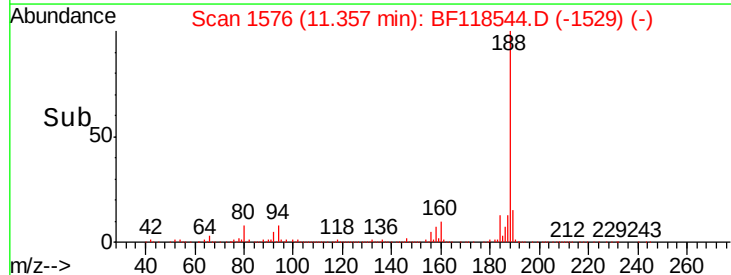
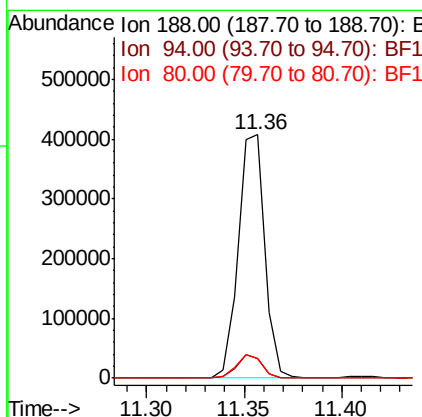
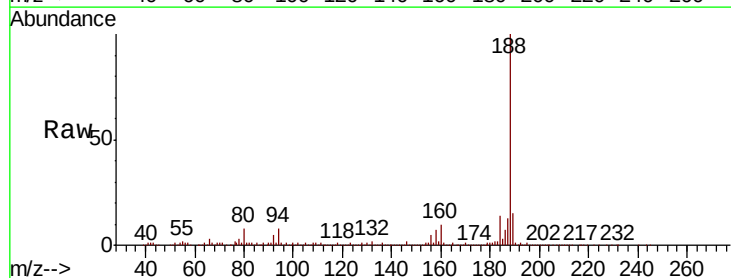
Manual Integrations
 APPROVED

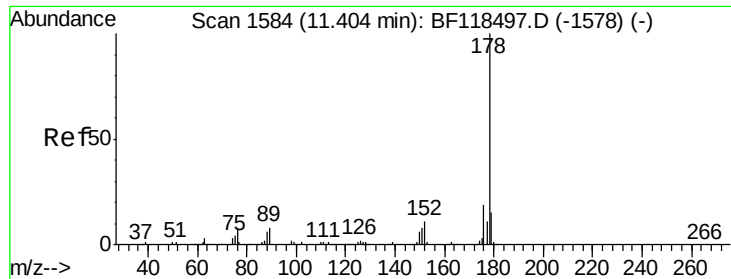
mohammad
 1/14/2020 2:31:52 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.02 min
 Lab File: BF118544.D
 Acq: 13 Jan 2020 21:34

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	7.9	6.2	9.4	
80	7.9	6.6	10.0	





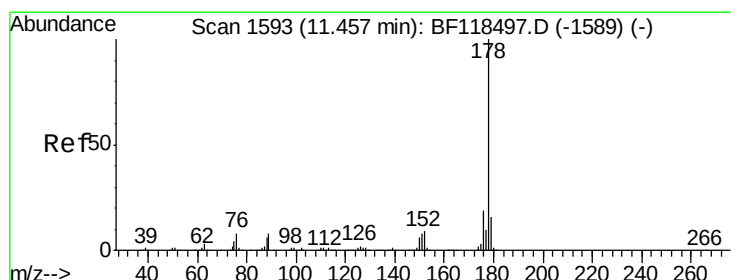
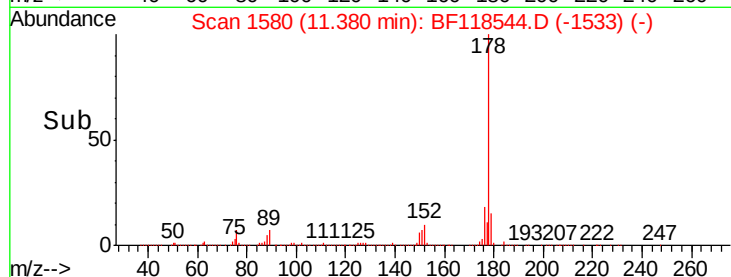
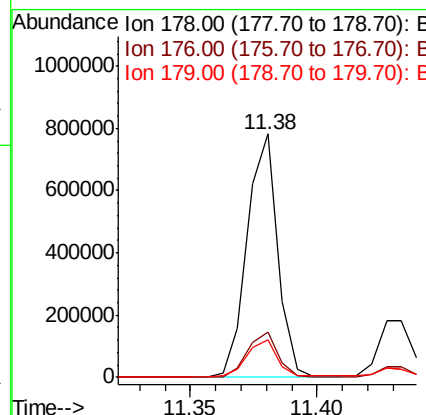
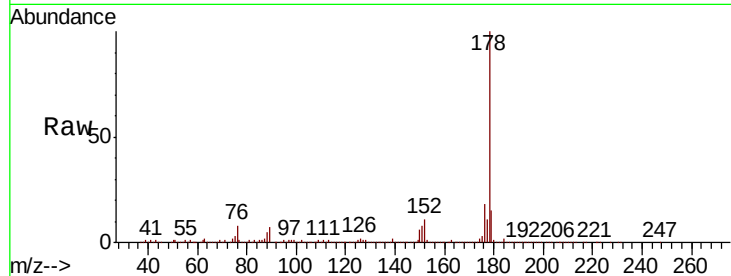
#71
Phenanthrene
Concen: 30.394 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampled :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.2	22.8
179	15.3	12.3	18.5

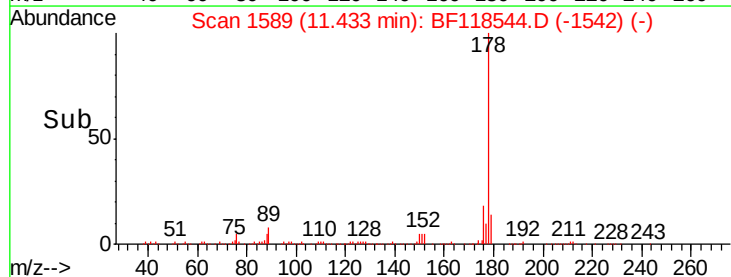
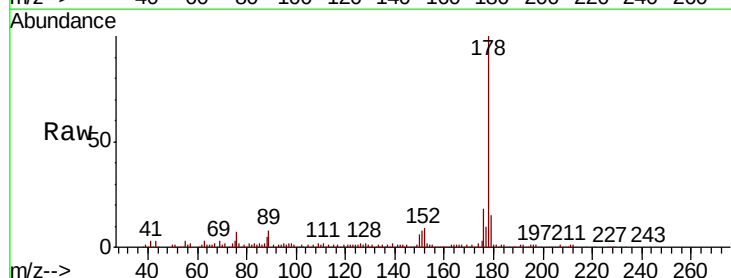
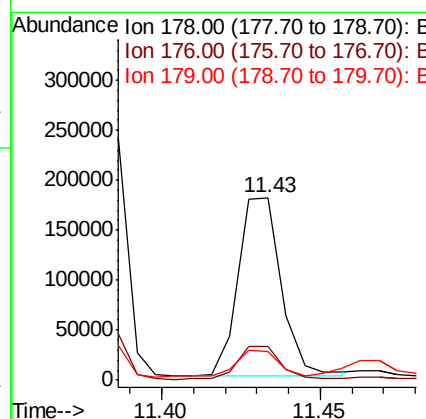
Manual Integrations
APPROVED

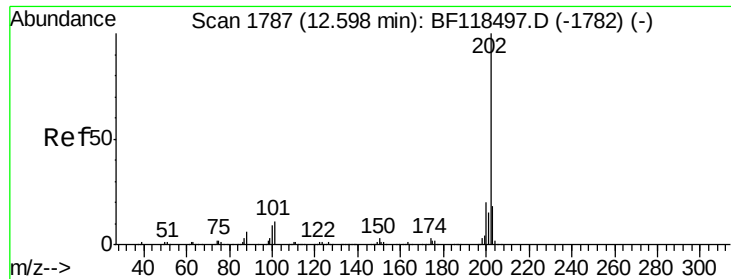
mohammad
1/14/2020 2:31:52 PM



#72
Anthracene
Concen: 7.898 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.4	12.6	19.0





#75

Fluoranthene

Concen: 41.593 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.02 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Instrument :

BNA_F

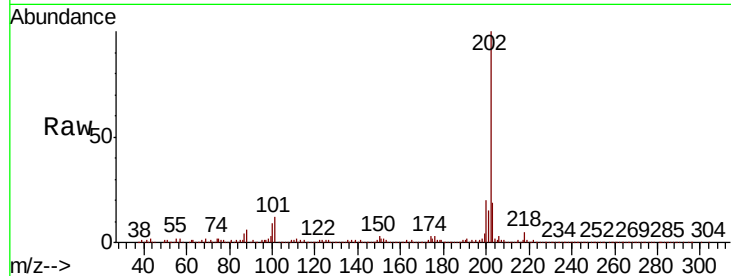
ClientSampleId :

SB-MW-16(2-3.5)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	906640		
101	12.2	0.0	31.4	
203	18.5	0.0	38.1	

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM

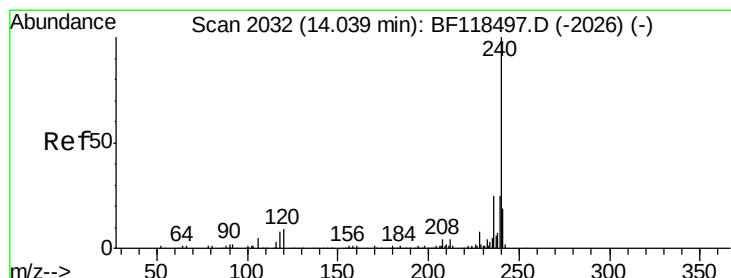
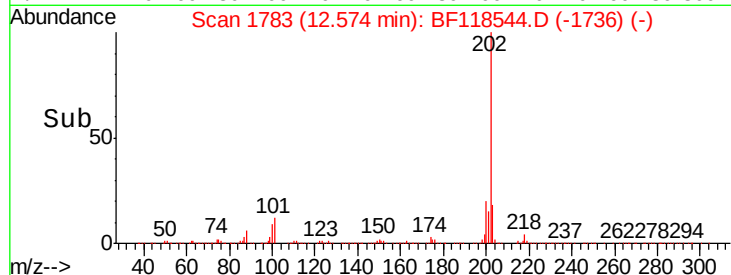
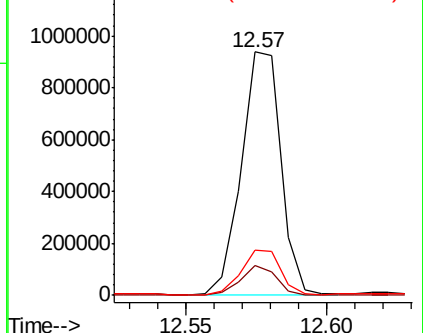


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

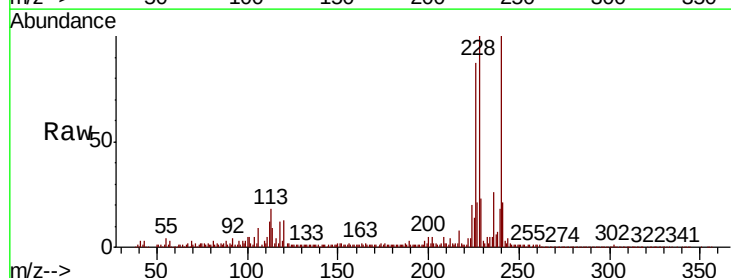
RT: 14.01 min Scan# 2027

Delta R.T. -0.03 min

Lab File: BF118544.D

Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	325405		
120	12.9	7.0	10.6#	
236	26.1	20.1	30.1	

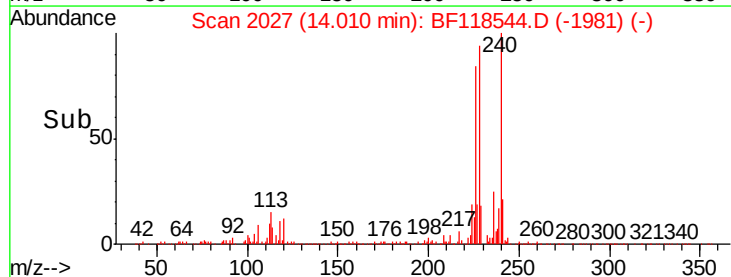
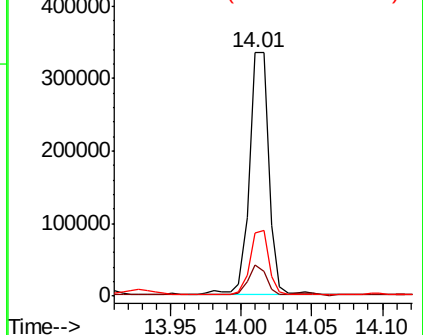


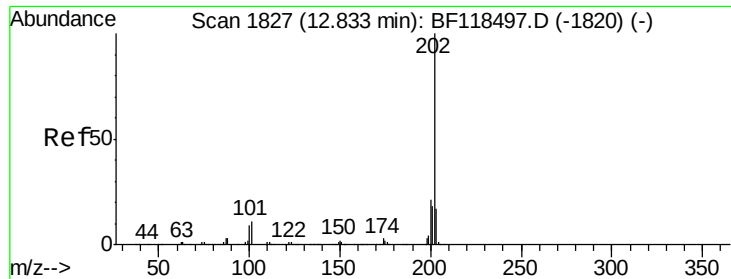
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





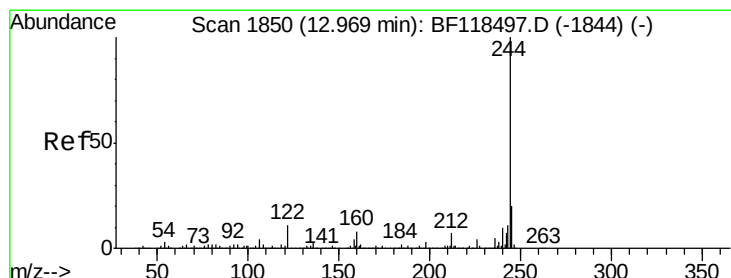
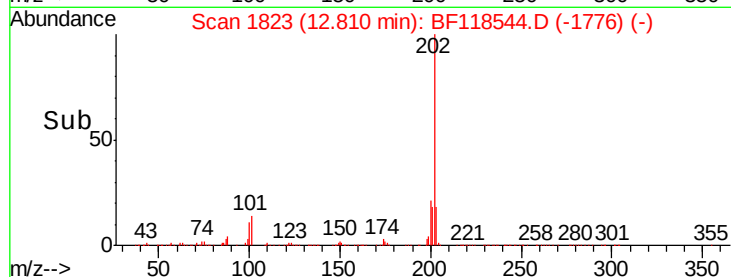
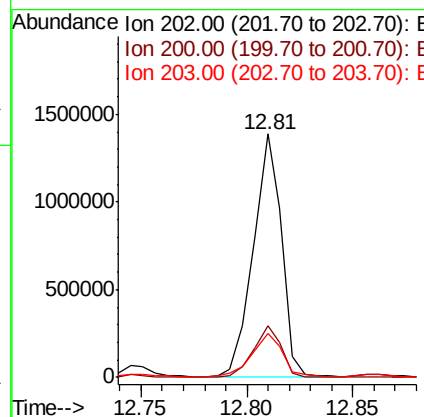
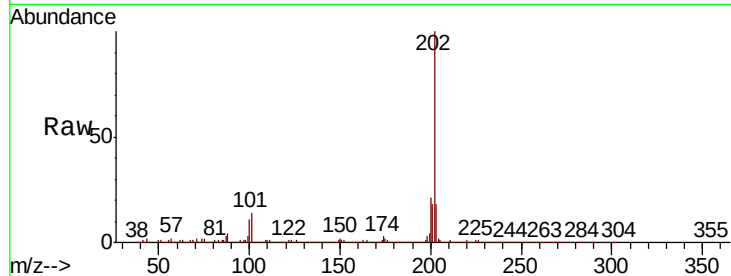
#78
Pvrene
Concen: 47.801 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampled :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	18.2	13.9	20.9

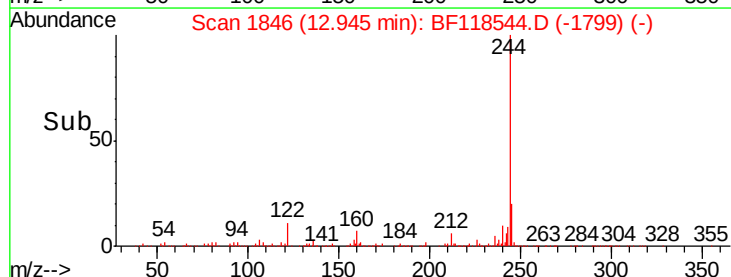
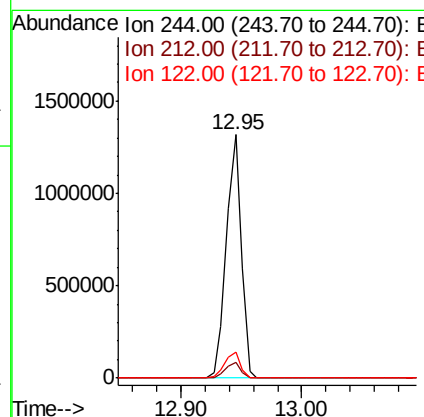
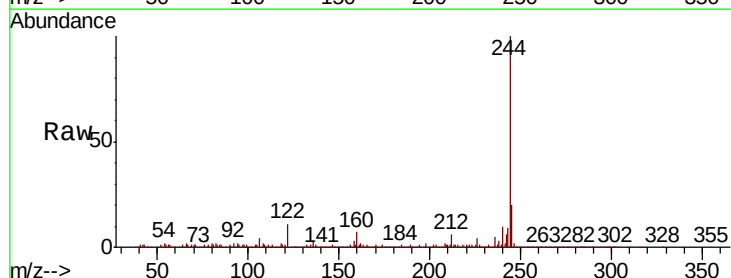
Manual Integrations
APPROVED

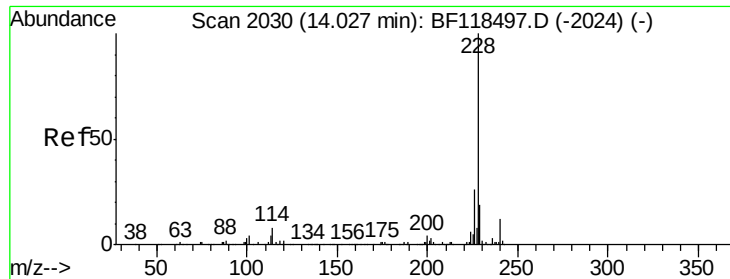
mohammad
1/14/2020 2:31:52 PM



#79
Terphenyl-d14
Concen: 54.943 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.8	9.0	13.6





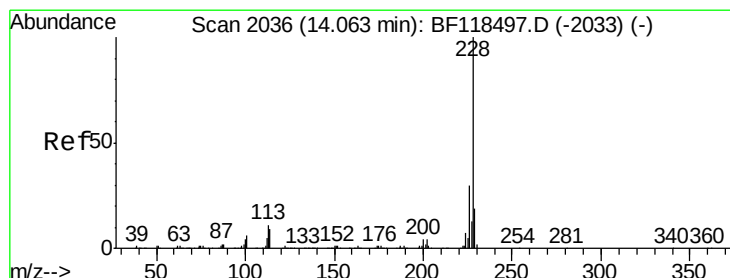
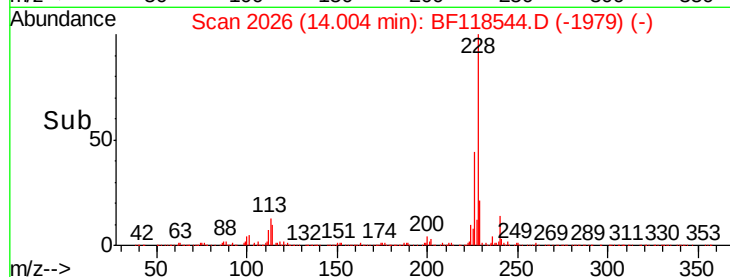
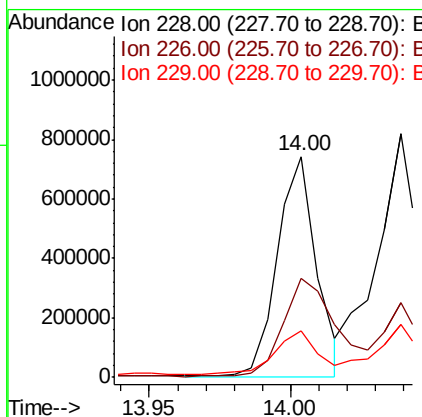
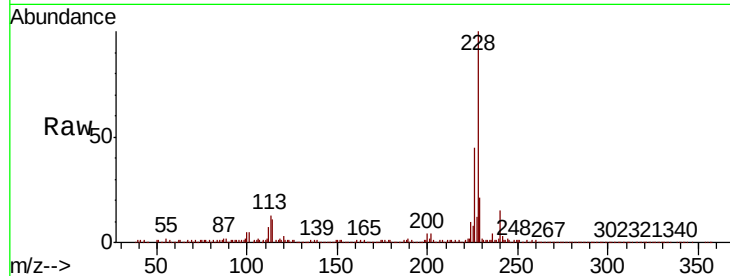
#81
Benzo(a)anthracene
Concen: 31.502 ng m
RT: 14.00 min Scan# 2026
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	44.7	20.7	31.1#
229	21.3	15.4	23.2

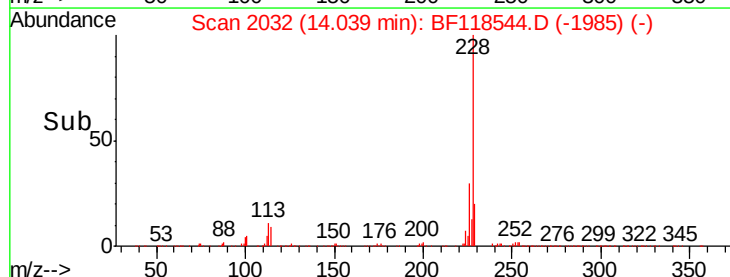
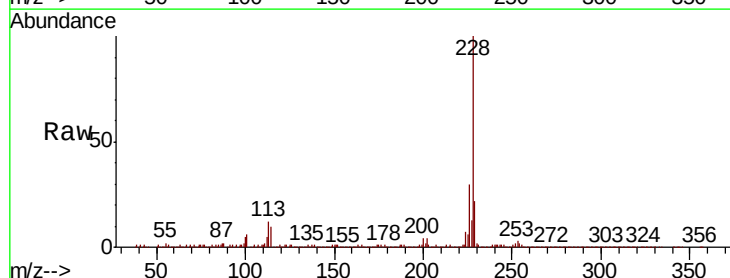
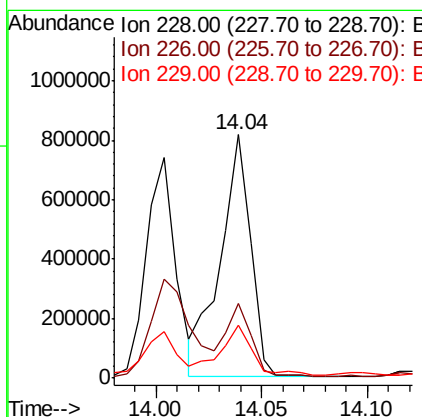
Manual Integrations
APPROVED

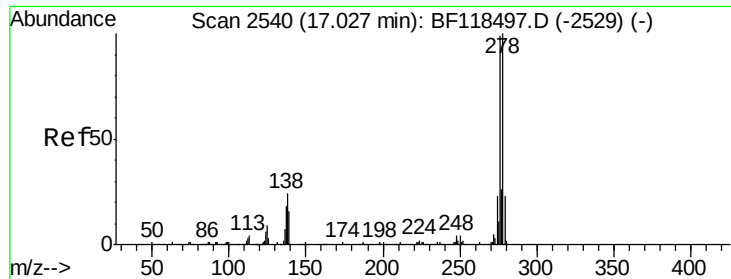
mohammad
1/14/2020 2:31:52 PM



#83
Chrysene
Concen: 36.565 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.6	35.4
229	21.8	15.6	23.4





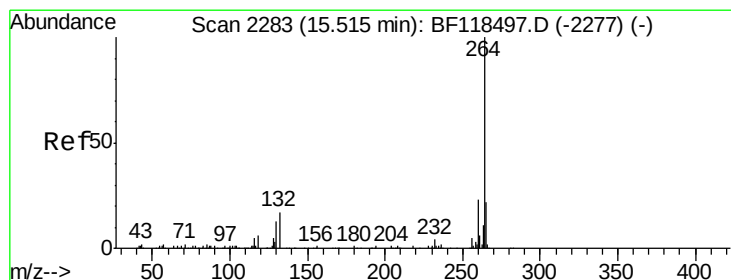
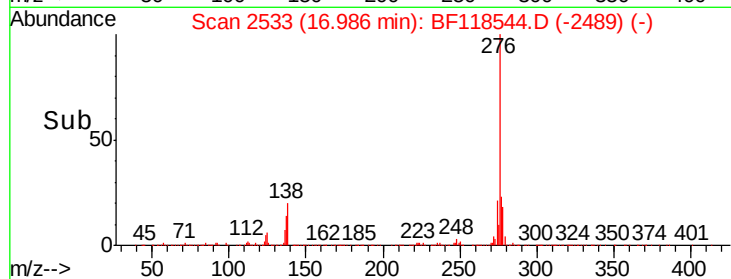
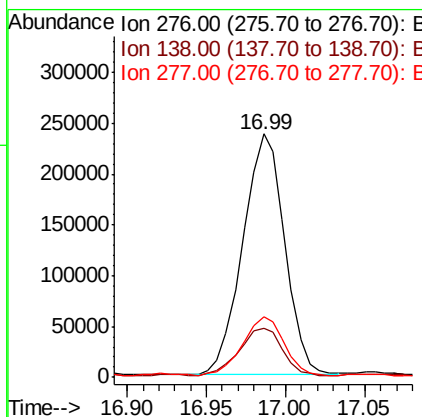
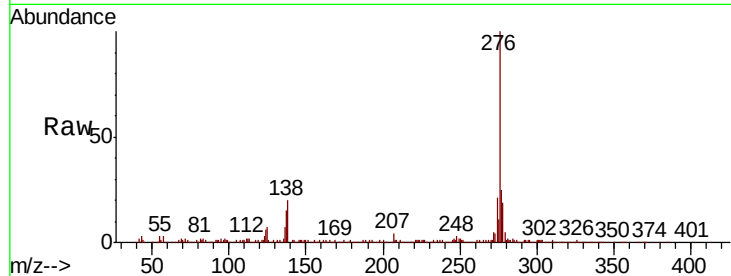
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 24.441 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. -0.04 min
 Lab File: BF118544.D
 Acq: 13 Jan 2020 21:34

Instrument :
 BNA_F
 ClientSampleId :
 SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.4	19.0	28.4
277	23.7	20.5	30.7

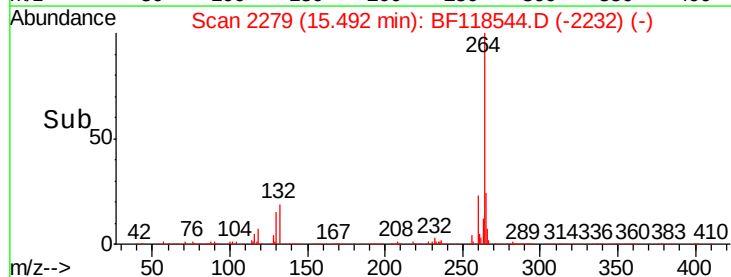
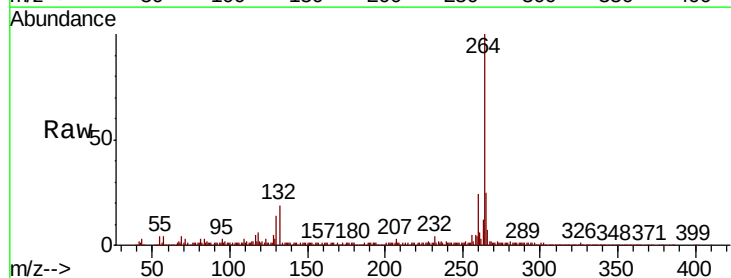
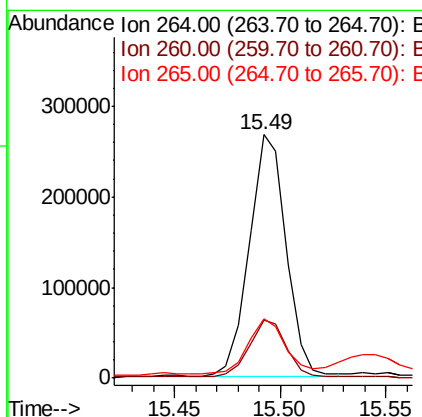
Manual Integrations
 APPROVED

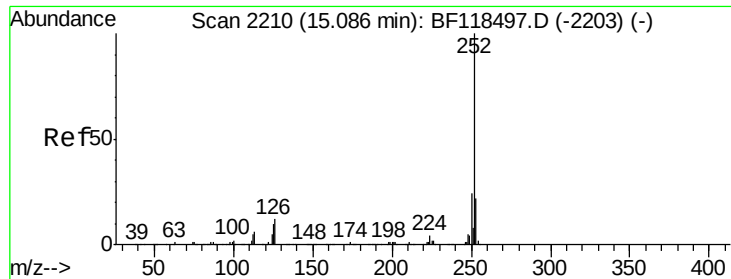
mohammad
 1/14/2020 2:31:52 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. -0.02 min
 Lab File: BF118544.D
 Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.8	28.2
265	24.6	17.5	26.3





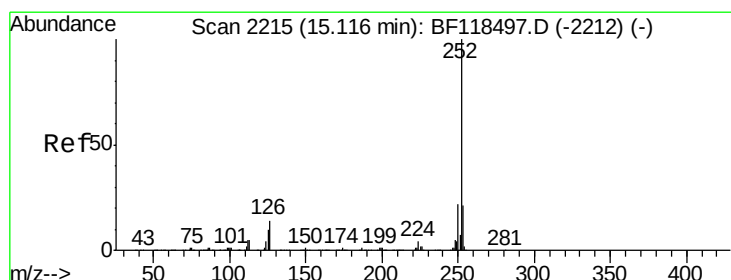
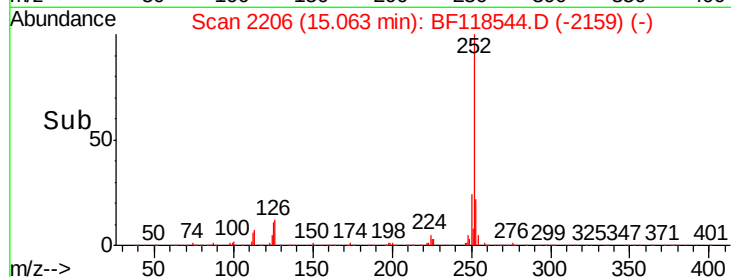
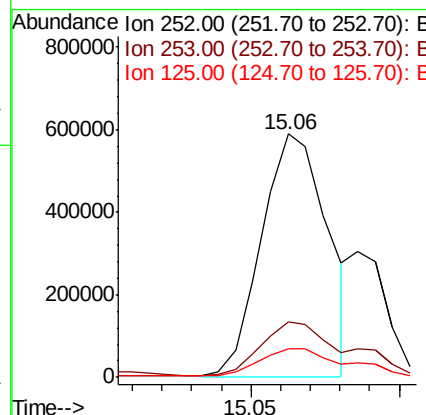
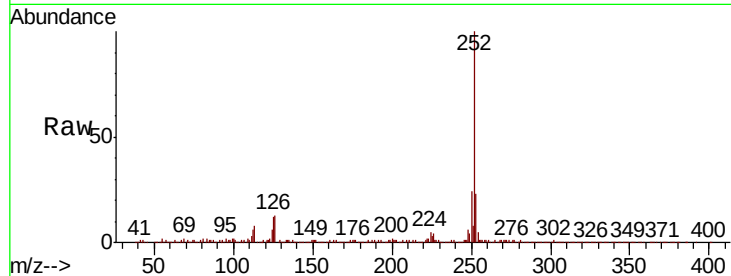
#88
Benzo(b)fluoranthene
Concen: 39.023 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
ClientSampleId :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	11.7	7.8	11.6

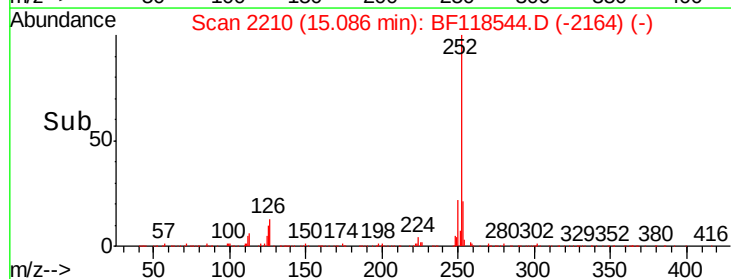
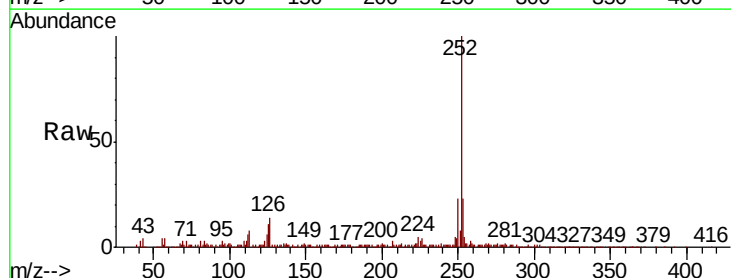
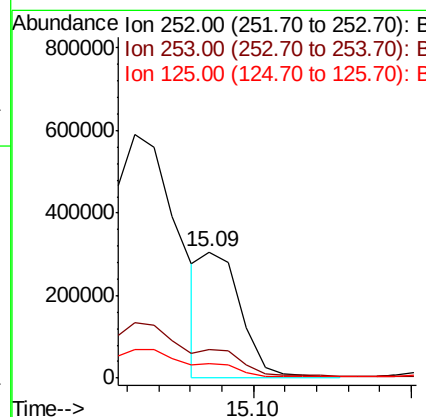
Manual Integrations
APPROVED

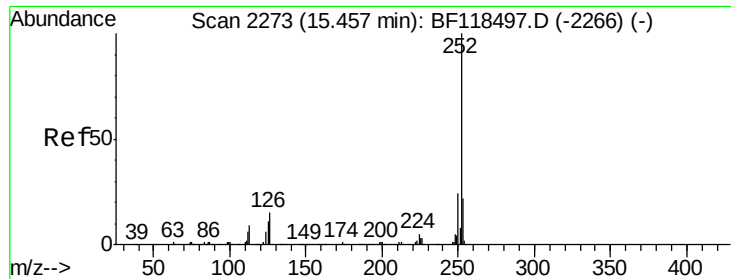
mohammad
1/14/2020 2:31:52 PM



#89
Benzo(k)fluoranthene
Concen: 12.048 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.03 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.4
125	11.1	7.8	11.6





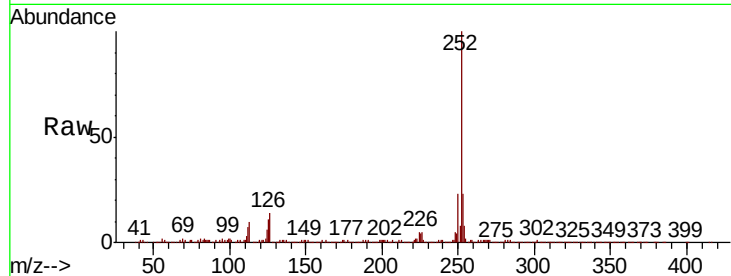
#90
Benzo(a)pyrene
Concen: 35.071 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

Instrument :
BNA_F
Client Sampled :
SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	11.3	9.0	13.6

Manual Integrations
APPROVED

mohammad
1/14/2020 2:31:52 PM

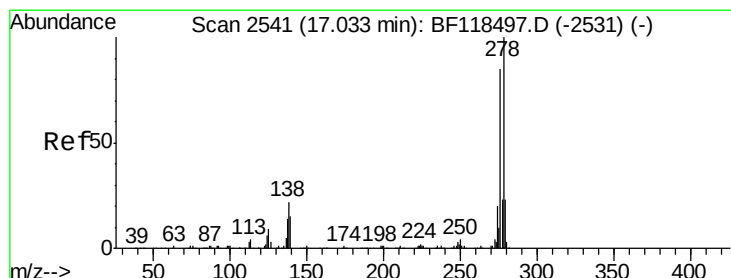
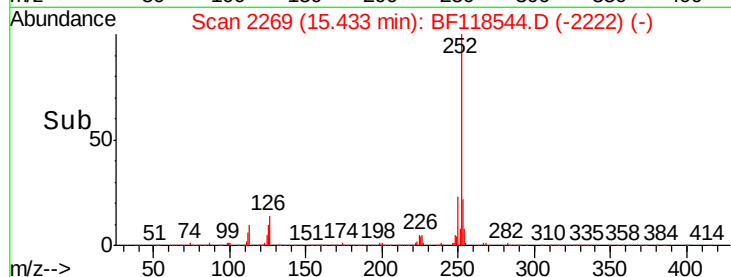
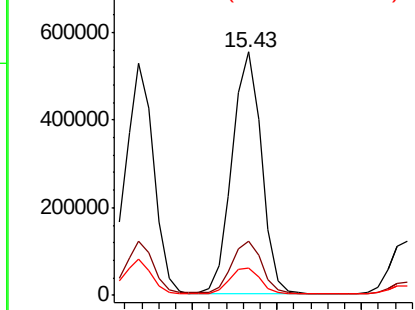


Abundance

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



#91
Dibenzo(a,h)anthracene
Concen: 5.399 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.05 min
Lab File: BF118544.D
Acq: 13 Jan 2020 21:34

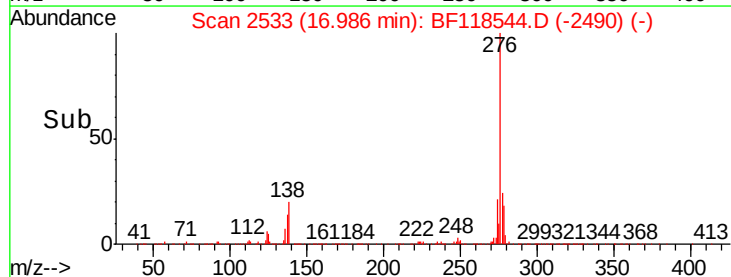
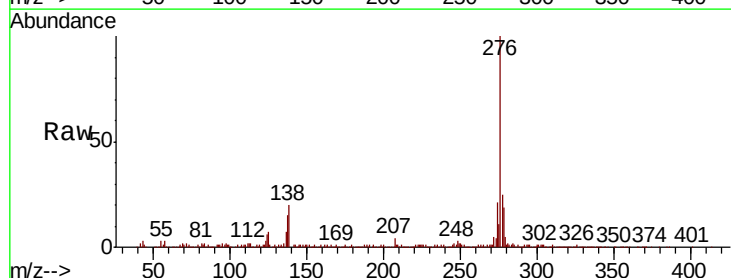
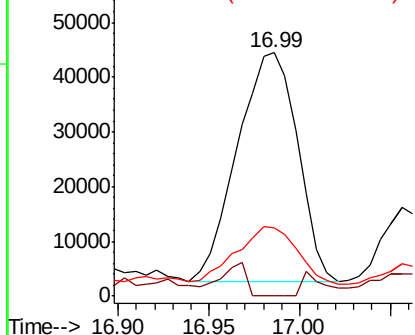
Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.9	17.9#
279	27.9	18.6	27.8#

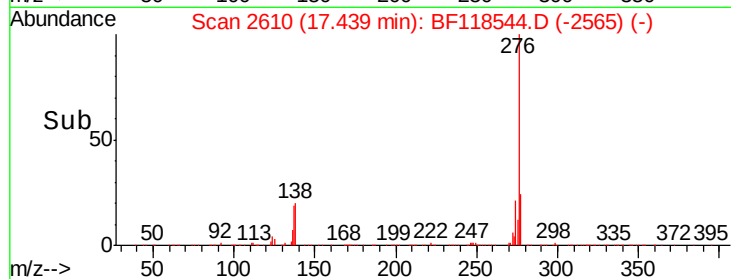
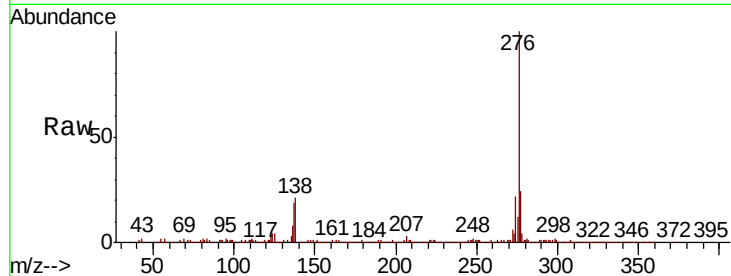
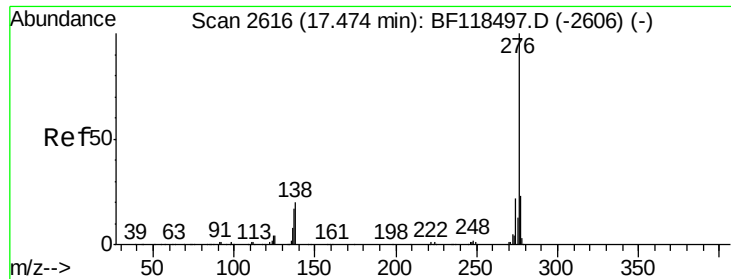
Abundance

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(a,h,i)perylene
 Concen: 28.405 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. -0.04 min
 Lab File: BF118544.D
 Acq: 13 Jan 2020 21:34

Instrument :
 BNA_F
 ClientSampleId :
 SB-MW-16(2-3.5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.2	27.4
138	21.3	16.3	24.5

Manual Integrations
 APPROVED

mohammad
 1/14/2020 2:31:52 PM

