

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
 Data File : BF118763.D
 Acq On : 30 Jan 2020 20:41
 Operator : CG/JU
 Sample : L1296-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR-51

Manual Integrations
 APPROVED

mohammad
 2/3/2020 7:57:19 AM

Quant Time: Jan 30 22:59:14 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 27 14:24:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	255217	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	957356	20.00	ng	-0.02
39) Acenaphthene-d10	9.87	164	540140	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	999703	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	696012	20.00	ng	-0.02
87) Perylene-d12	15.47	264	839853	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	1556257	113.25	ng	-0.02
7) Phenol-d6	6.47	99	1912981	107.11	ng	-0.02
23) Nitrobenzene-d5	7.40	82	1236622	72.25	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	730340	116.90	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	2522433	76.76	ng	-0.02
79) Terphenyl-d14	12.95	244	2982787	93.47	ng	-0.01
Target Compounds						
10) Phenol	6.48	94	73527	3.612	ng	93
49) Acenaphthylene	9.73	152	124484	2.820	ng	98
50) Dimethylphthalate	9.59	163	325743	9.256	ng	99
70) Pentachlorophenol	11.17	266	100123	12.860	ng	97
71) Phenanthrene	11.39	178	1140316	23.643	ng	98
72) Anthracene	11.43	178	220397	4.618	ng	98
73) Carbazole	11.59	167	124086	2.835	ng	98
75) Fluoranthene	12.58	202	2709137	53.257	ng	99
78) Pyrene	12.81	202	2484546	52.580	ng	100
81) Benzo(a)anthracene	13.99	228	1241745	29.658	ng	97
83) Chrysene	14.03	228	1287466	32.085	ng	98
84) Bis(2-ethylhexyl)phthalate	13.99	149	76616	3.243	ng	99
86) Indeno(1,2,3-cd)pyrene	16.93	276	1181218	33.878	ng	96
88) Benzo(b)fluoranthene	15.04	252	2124366m	40.241	ng	
89) Benzo(k)fluoranthene	15.07	252	519392m	10.620	ng	
90) Benzo(a)pyrene	15.40	252	1364972	29.974	ng	99
91) Dibenzo(a,h)anthracene	16.93	278	268662m	6.670	ng	
92) Benzo(g,h,i)perylene	17.37	276	1146774	29.321	ng	98

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

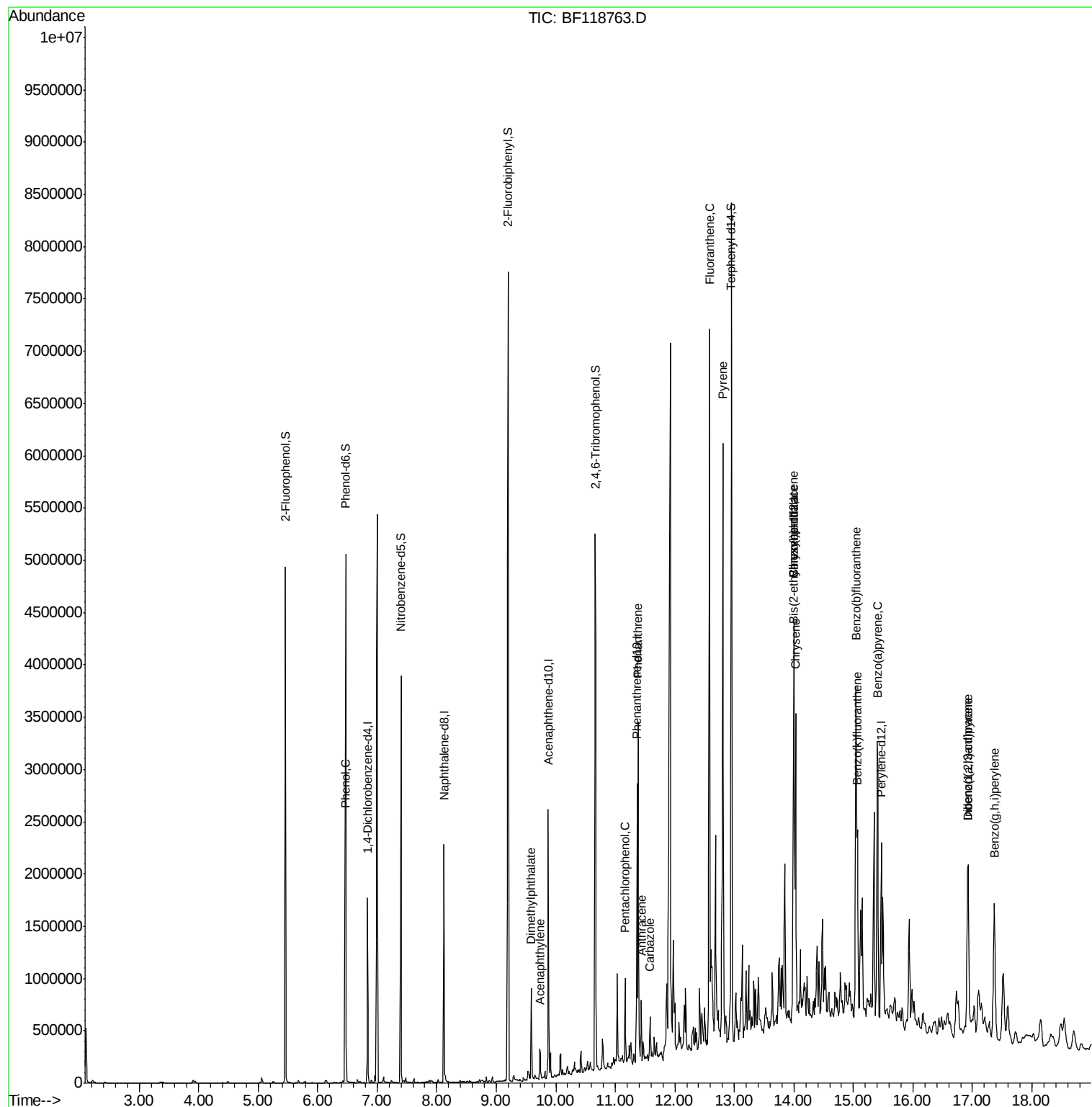
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
Data File : BF118763.D
Acq On : 30 Jan 2020 20:41
Operator : CG/JU
Sample : L1296-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

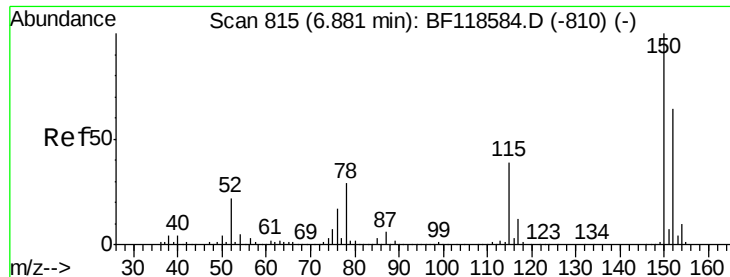
Instrument :
BNA_F
ClientSampled :
RBR-51

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM

Quant Time: Jan 30 22:59:14 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 27 14:24:10 2020
Response via : Initial Calibration





#1

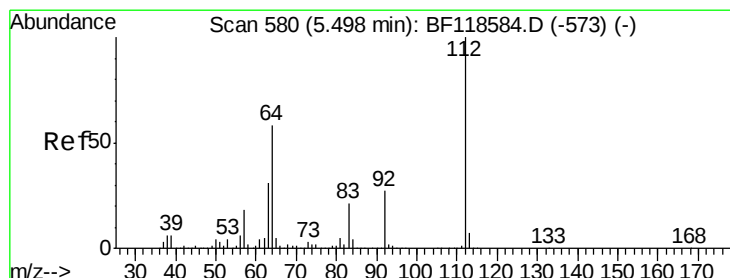
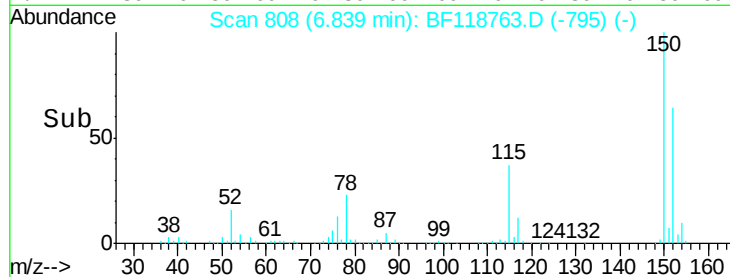
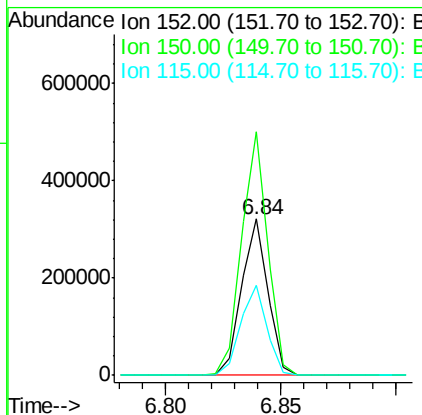
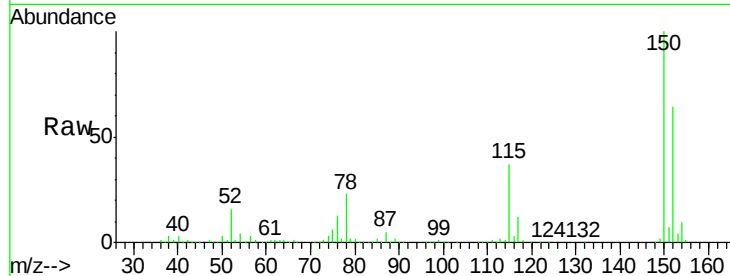
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	123.7	185.5
115	57.6	45.1	67.7

Manual Integrations
APPROVED

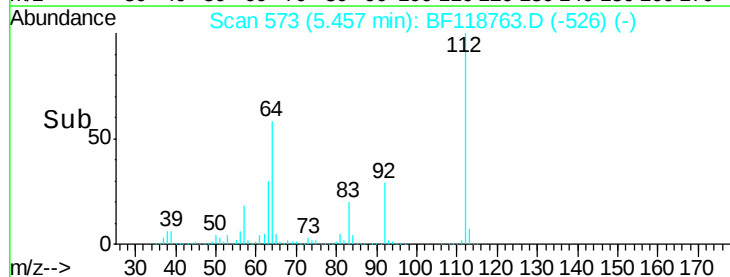
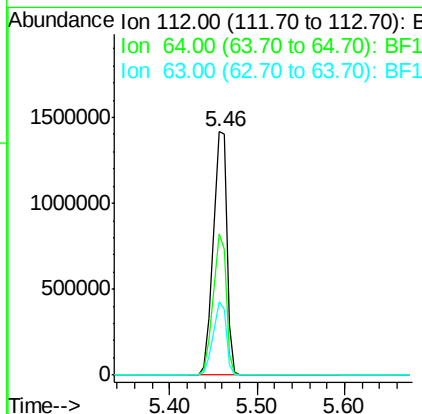
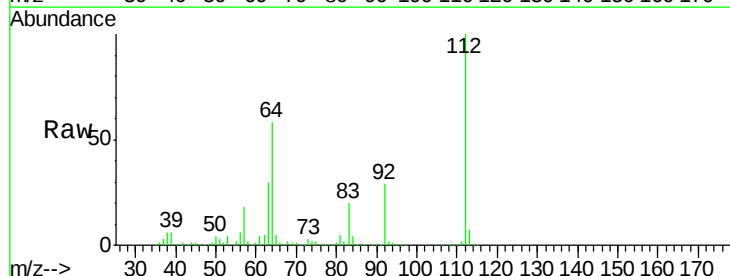
mohammad
2/3/2020 7:57:19 AM

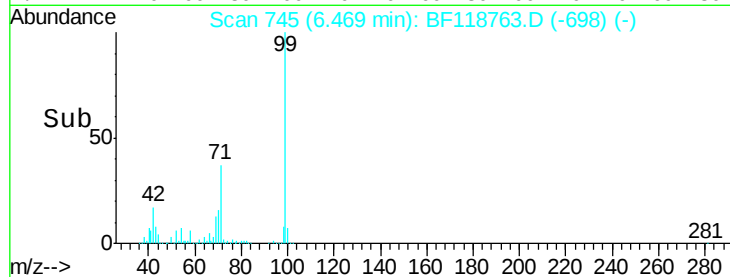
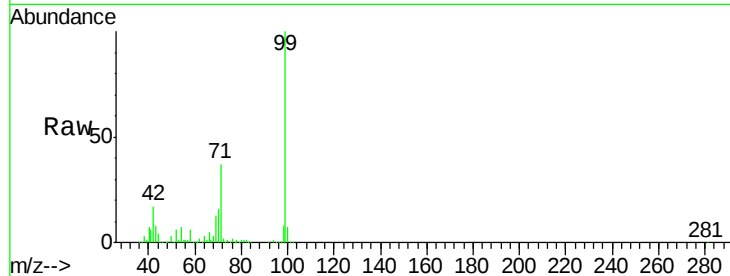
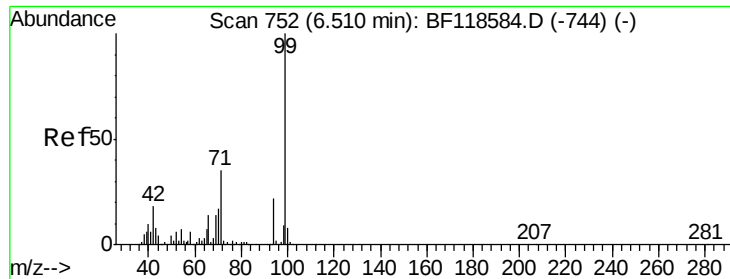


#5

2-Fluorophenol
Concen: 113.251 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	42.4	63.6
63	30.2	21.7	32.5





#7

Phenol-d6

Concen: 107.106 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tot Ion:	99	Resp:	1912981
Ion	Ratio	Lower	Upper
99	100		
42	16.9	13.1	19.7
71	36.6	28.4	42.6

Instrument :

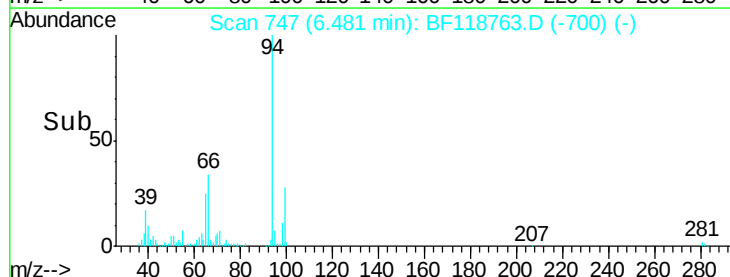
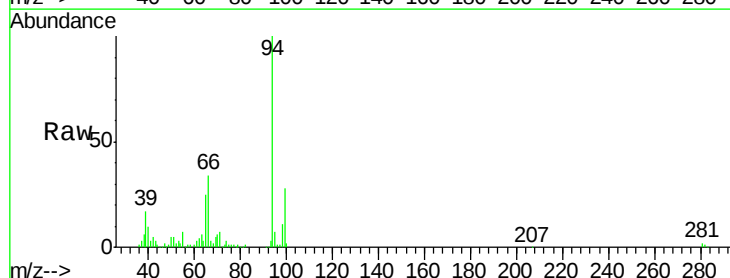
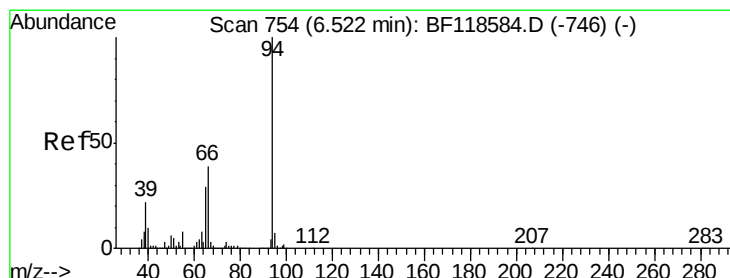
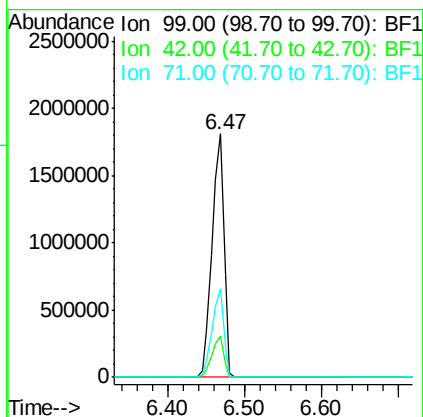
BNA_F

ClientSampled :

RBR-51

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



#10

Phenol

Concen: 3.612 ng

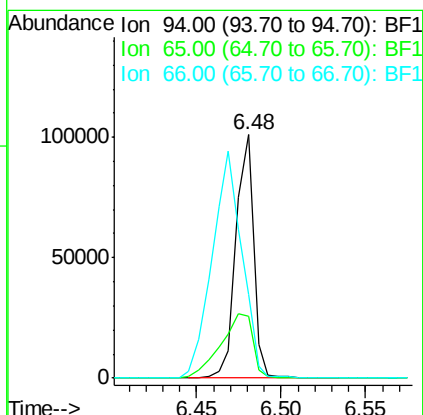
RT: 6.48 min Scan# 747

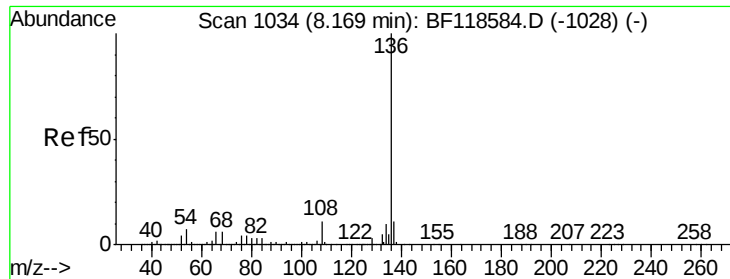
Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tgt Ion:	94	Resp:	73527
Ion	Ratio	Lower	Upper
94	100		
65	25.1	7.9	47.9
66	34.3	19.1	59.1





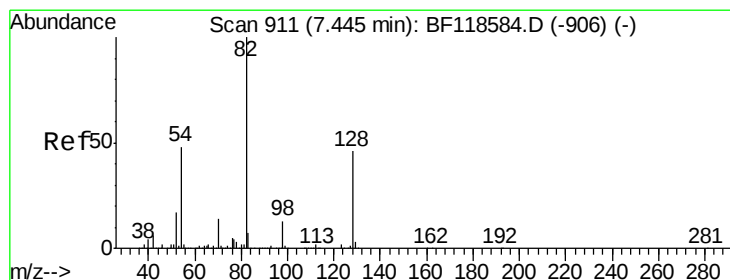
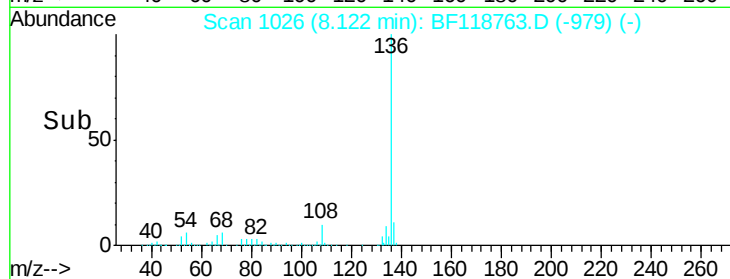
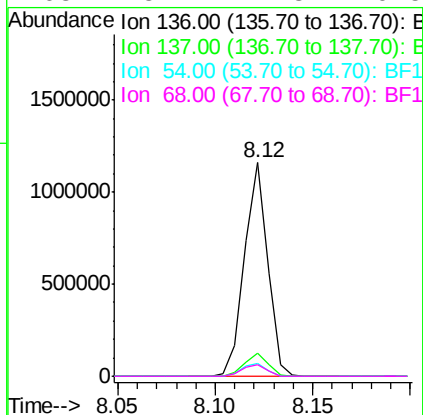
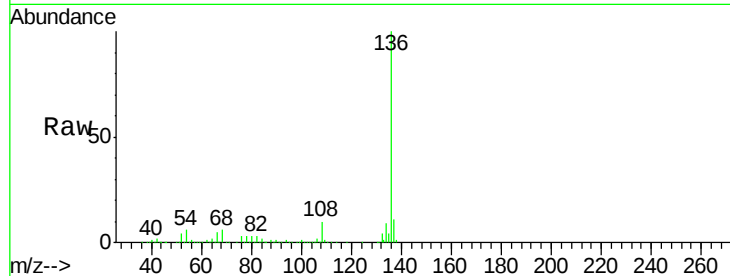
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		957356		
137	11.1		8.9	13.3	
54	6.2		5.1	7.7	
68	5.7		4.3	6.5	

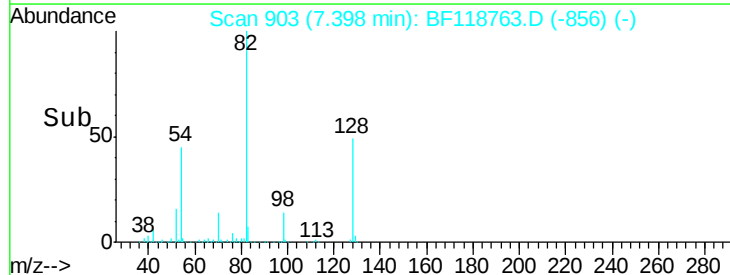
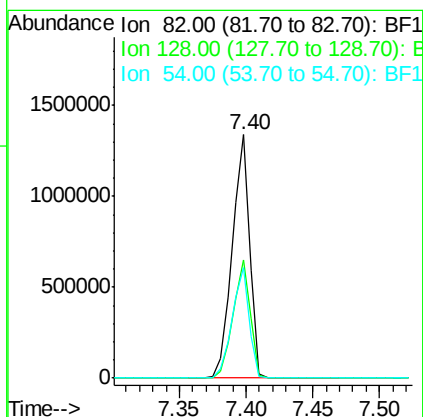
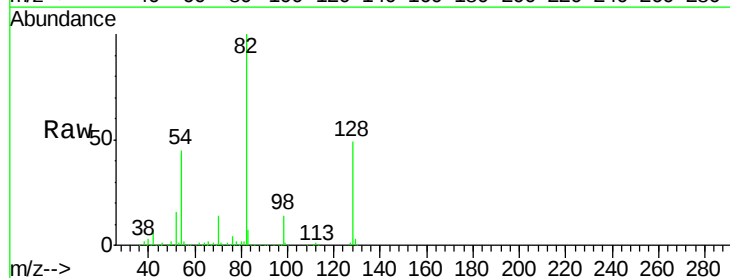
Manual Integrations
APPROVED

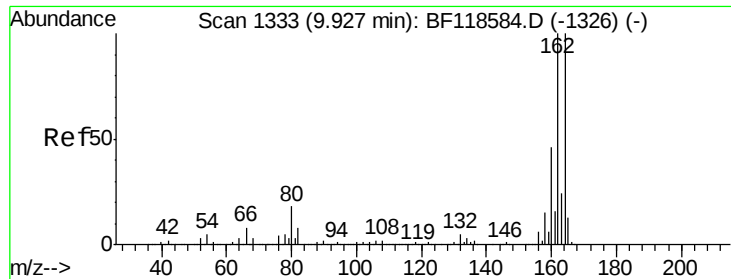
mohammad
2/3/2020 7:57:19 AM



#23
Nitrobenzene-d5
Concen: 72.250 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		1236622		
128	48.6		38.2	57.2	
54	45.2		36.1	54.1	





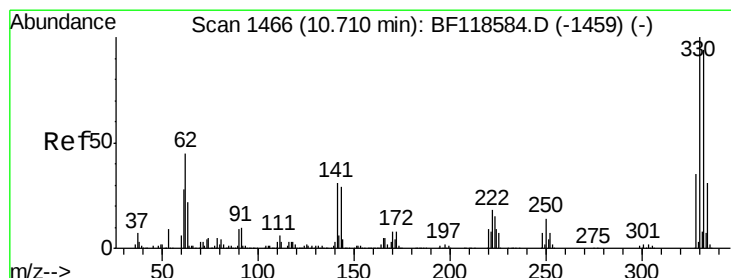
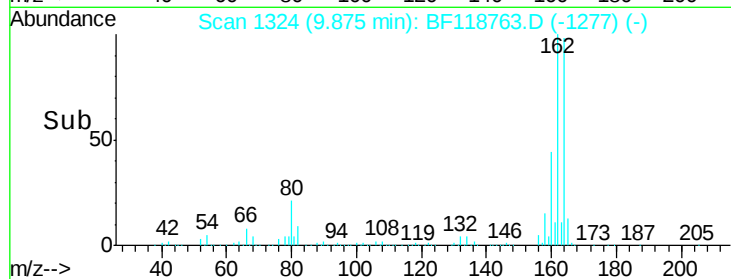
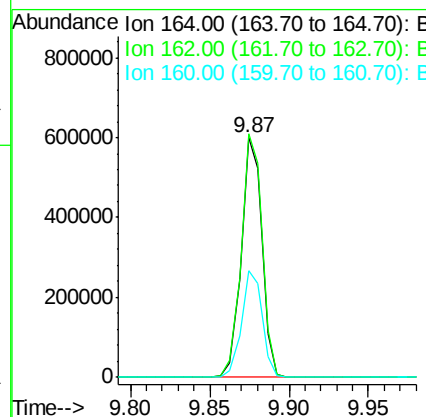
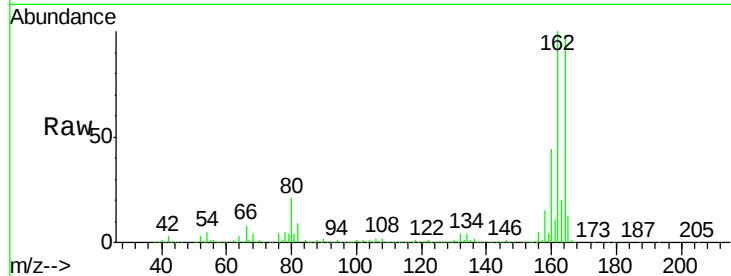
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.02 min
 Lab File: BF118763.D
 Acq: 30 Jan 2020 20:41

Instrument :
 BNA_F
 ClientSampleId :
 RBR-51

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.6	80.8	121.2	
160	44.5	35.4	53.0	

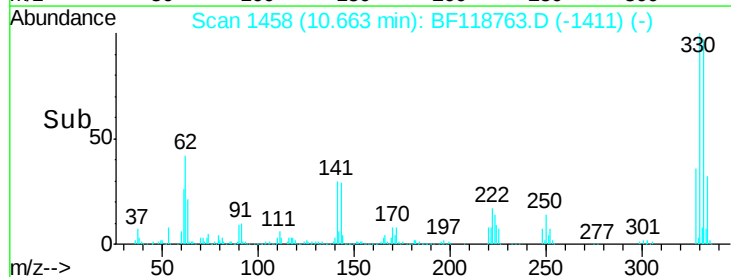
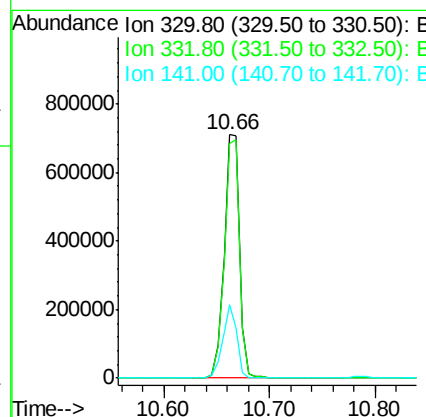
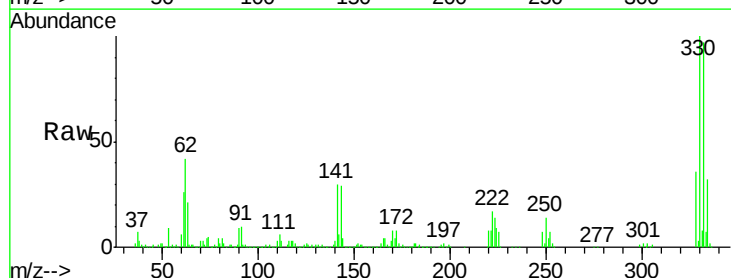
Manual Integrations
 APPROVED

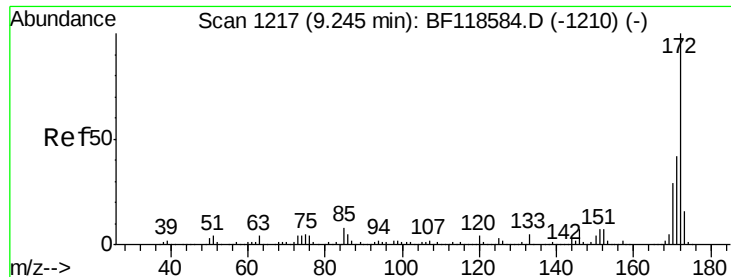
mohammad
 2/3/2020 7:57:19 AM



#42
 2,4,6-Tribromophenol
 Concen: 116.903 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF118763.D
 Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.3	77.6	116.4	
141	27.7	22.2	33.2	





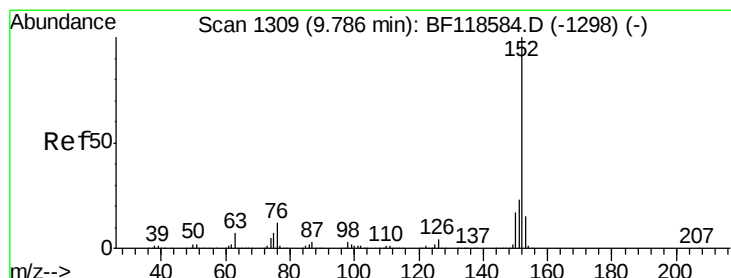
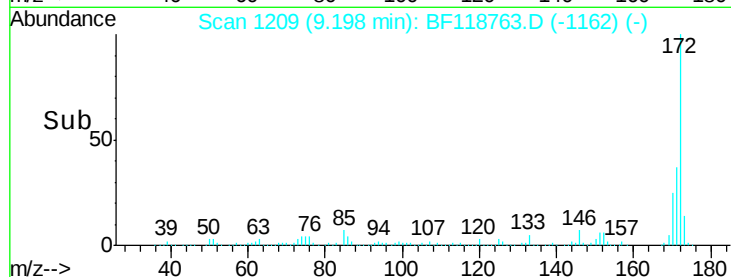
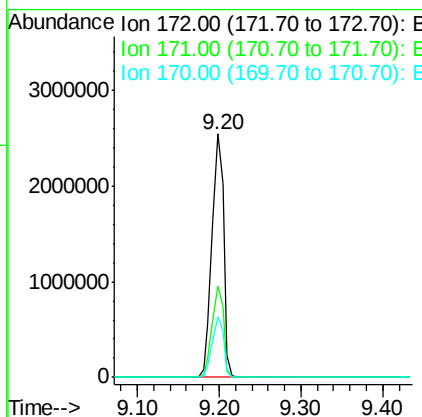
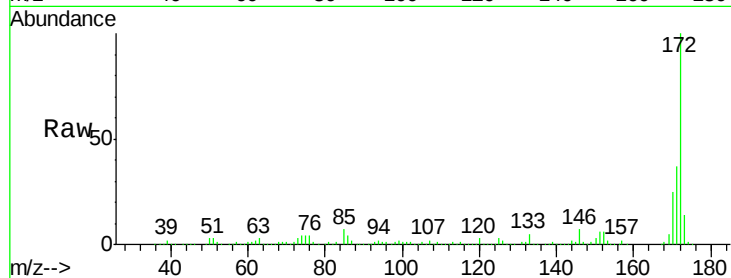
#45
2-Fluorobiphenyl
Concen: 76.756 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.4	31.0	46.4
170	25.1	20.7	31.1

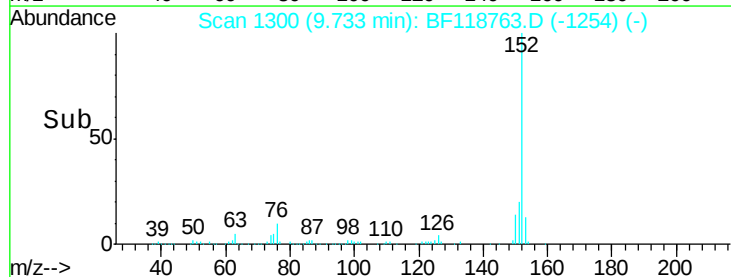
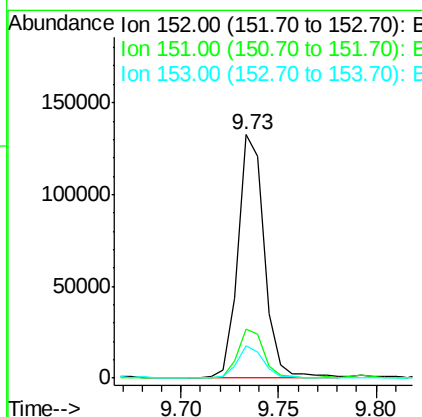
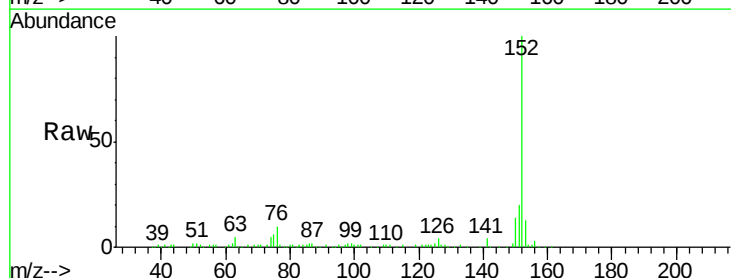
Manual Integrations
APPROVED

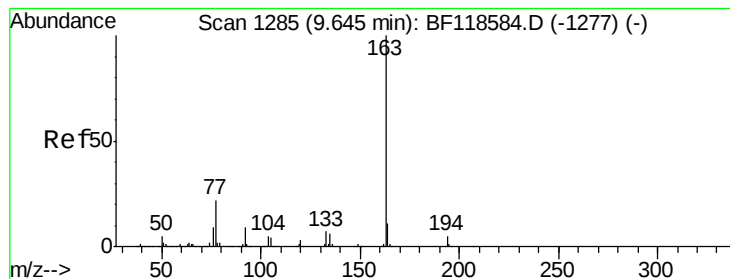
mohammad
2/3/2020 7:57:19 AM



#49
Acenaphthylene
Concen: 2.820 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.03 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.1	25.7
153	13.4	11.0	16.4





#50

Dimethylphthalate

Concen: 9.256 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.04 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Instrument :

BNA_F

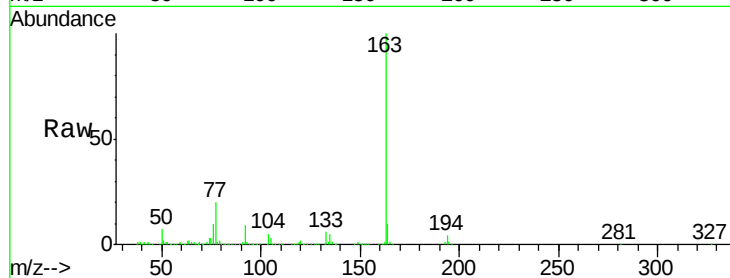
ClientSampled :

RBR-51

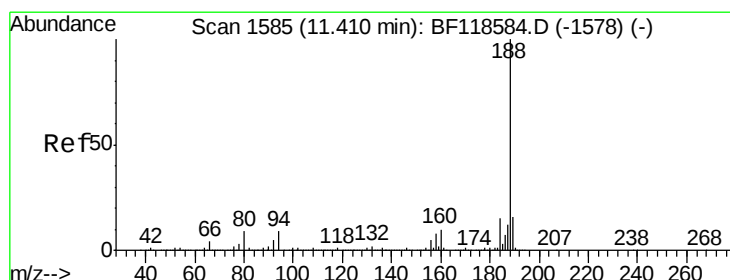
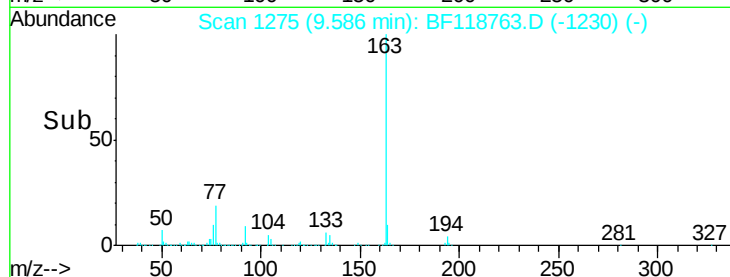
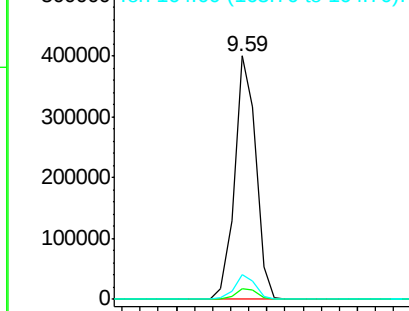
Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		325743		
194	4.2		3.7	5.5	
164	10.3		8.2	12.2	

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

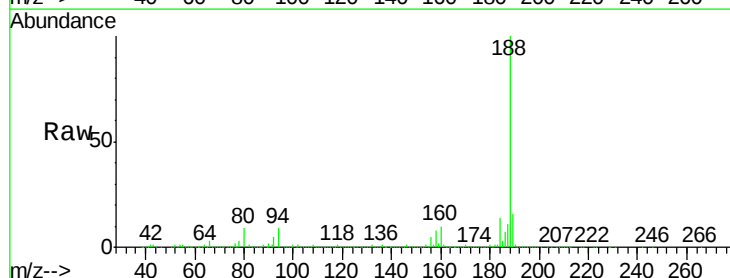
RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

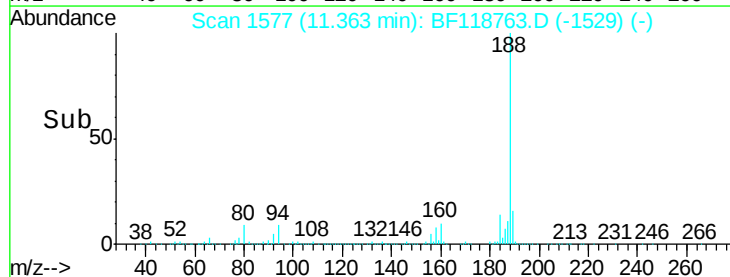
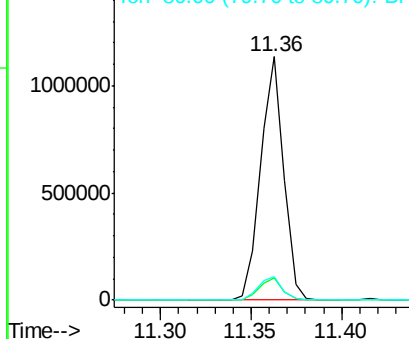
Lab File: BF118763.D

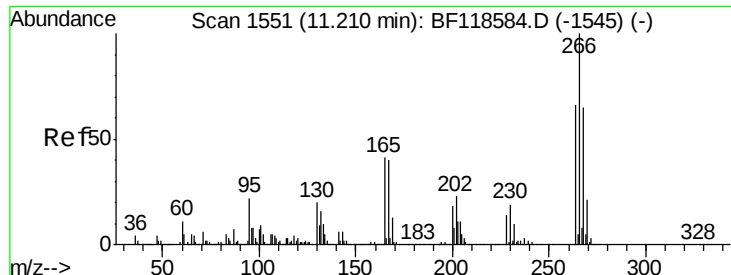
Acq: 30 Jan 2020 20:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		999703		
94	9.0		7.4	11.2	
80	9.4		7.8	11.8	



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





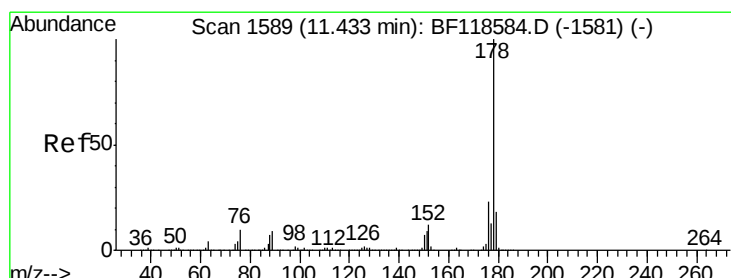
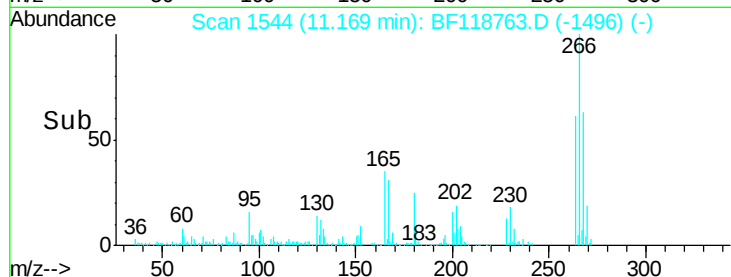
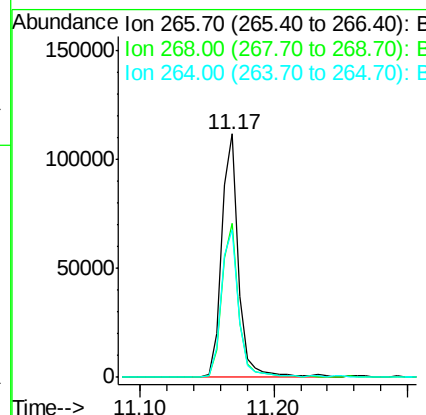
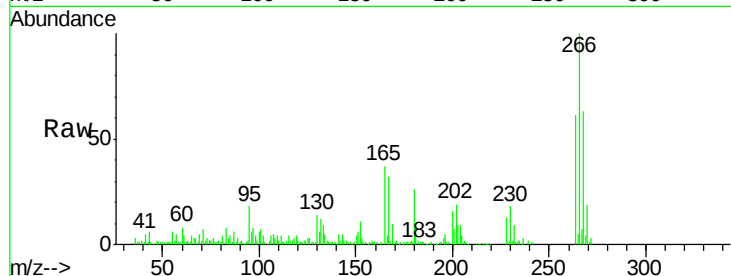
#70
 Pentachlorophenol
 Concen: 12.860 ng
 RT: 11.17 min Scan# 1544
 Delta R.T. -0.02 min
 Lab File: BF118763.D
 Acq: 30 Jan 2020 20:41

Instrument :
 BNA_F
 ClientSampleId :
 RBR-51

Tot Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.6	77.4
264	60.7	50.9	76.3

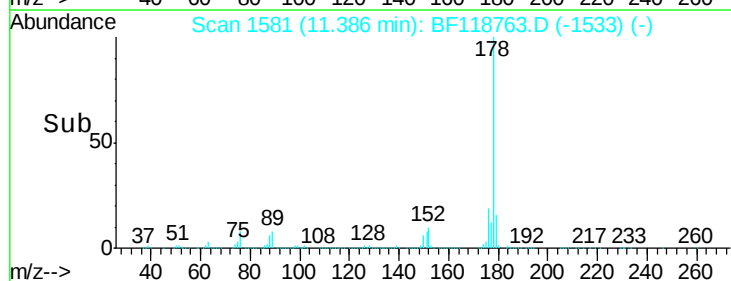
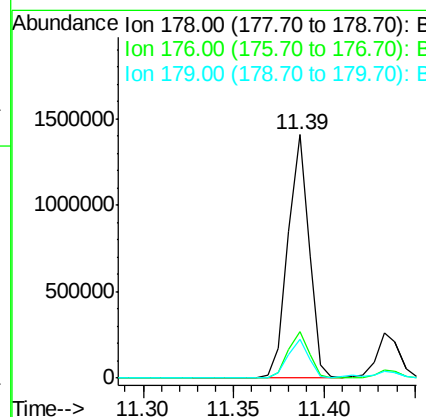
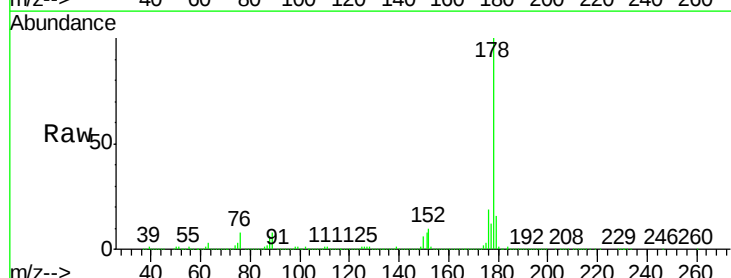
Manual Integrations
 APPROVED

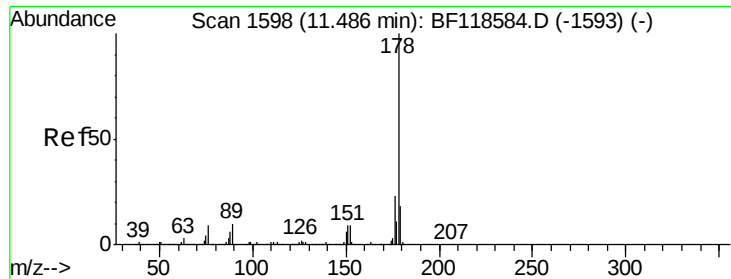
mohammad
 2/3/2020 7:57:19 AM



#71
 Phenanthrene
 Concen: 23.643 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.02 min
 Lab File: BF118763.D
 Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.5	24.7
179	16.1	13.3	19.9





#72

Anthracene

Concen: 4.618 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Instrument :

BNA_F

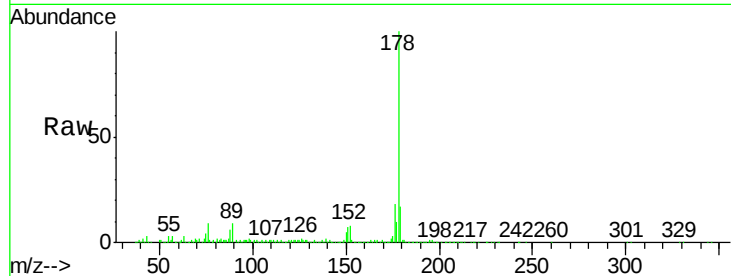
ClientSampleId :

RBR-51

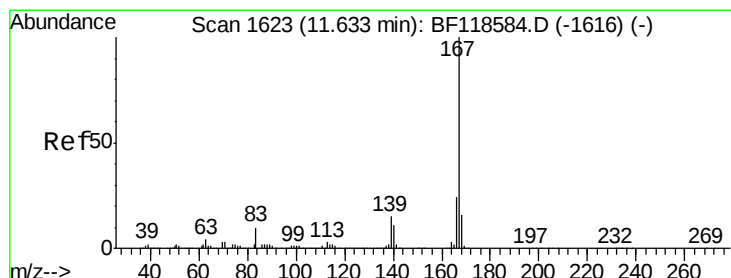
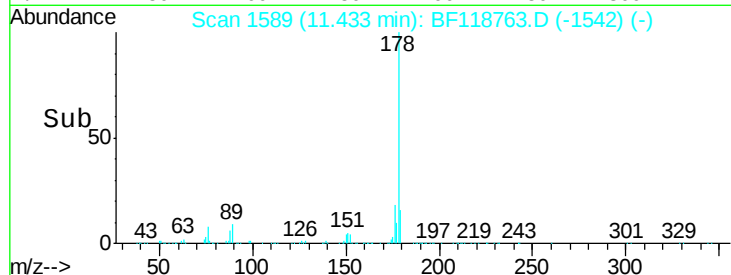
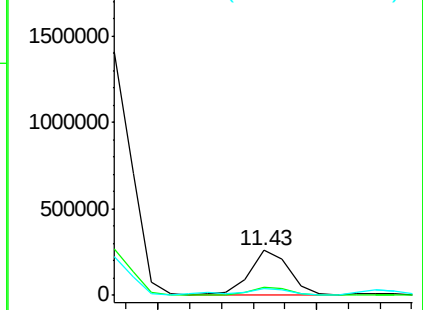
Tot Ion:	178	Resp:	220397
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.8	23.8
179	16.5	13.3	19.9

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.835 ng

RT: 11.59 min Scan# 1615

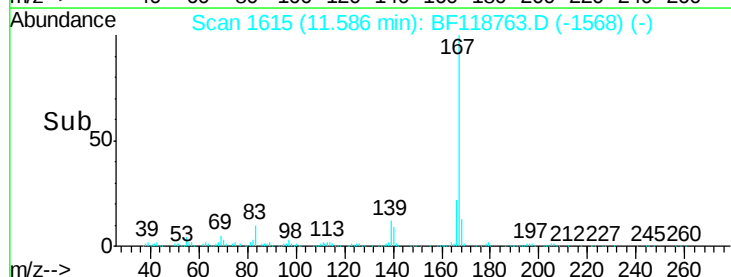
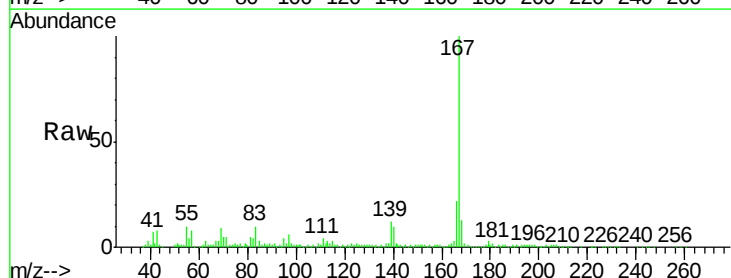
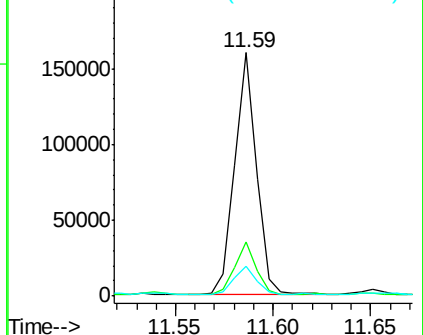
Delta R.T. -0.02 min

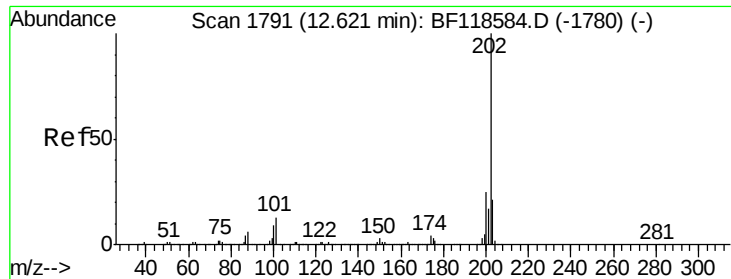
Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tgt Ion:	167	Resp:	124086
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.3	27.5
139	12.4	11.0	16.4

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 53.257 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Instrument :

BNA_F

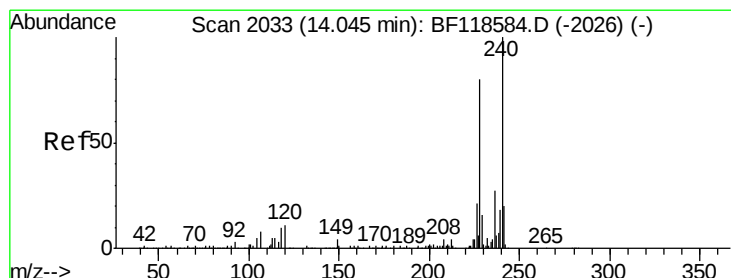
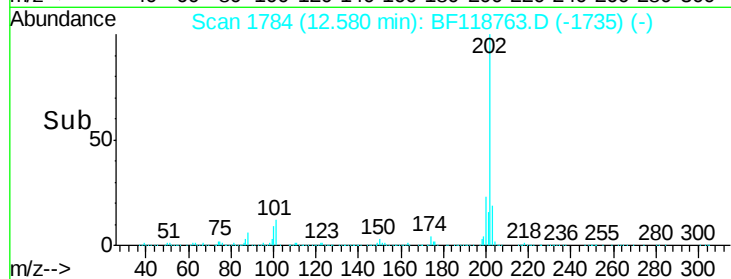
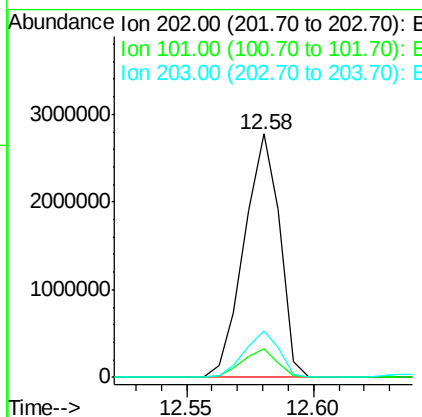
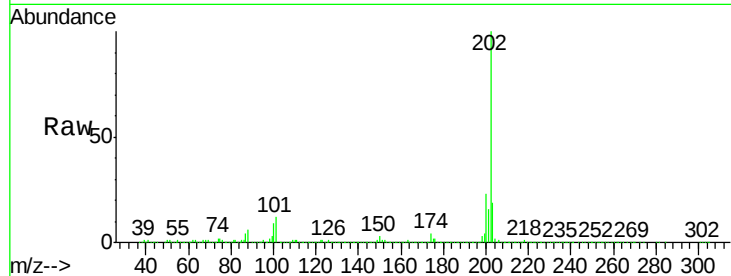
ClientSampleId :

RBR-51

Tot Ion:	202	Resp:	2709137
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	32.1
203	19.2	0.0	38.9

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



#76

Chrysene-d12

Concen: 20.000 ng

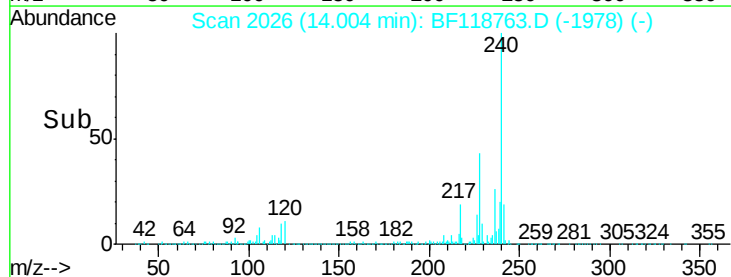
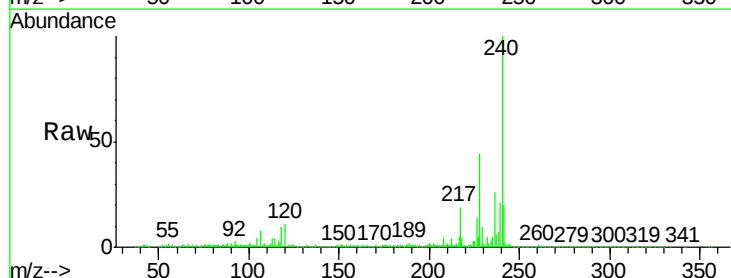
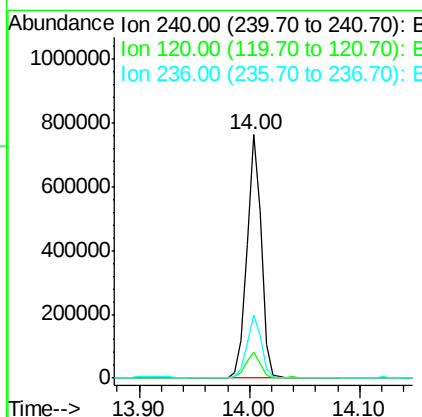
RT: 14.00 min Scan# 2026

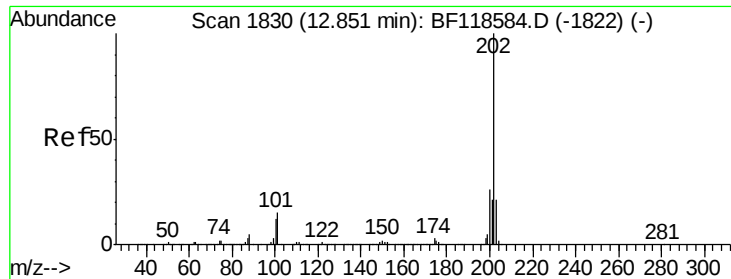
Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tgt Ion:	240	Resp:	696012
Ion Ratio	Lower	Upper	
240	100		
120	10.9	7.6	11.4
236	26.0	21.0	31.4





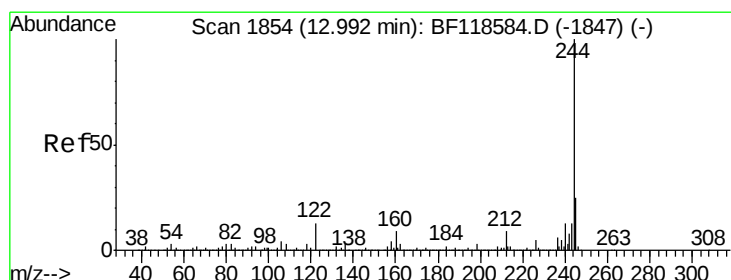
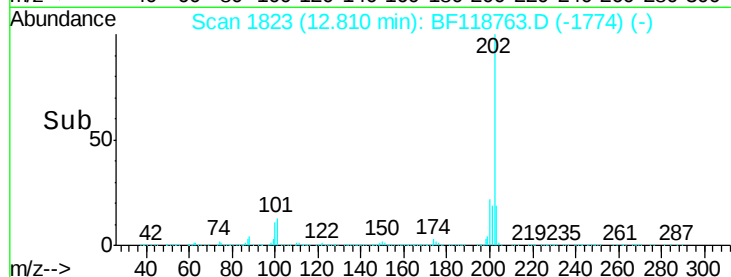
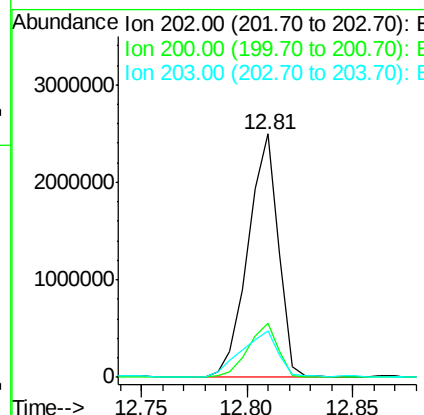
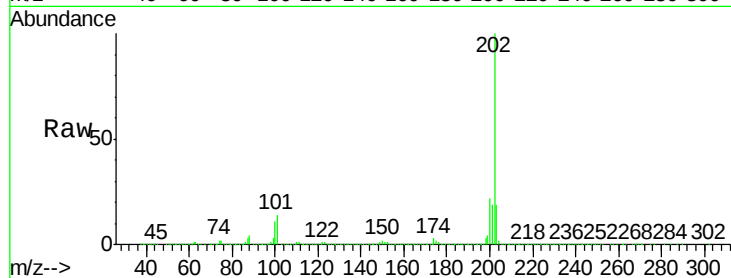
#78
Pvrene
Concen: 52.580 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.3	18.1	27.1
203	19.1	15.2	22.8

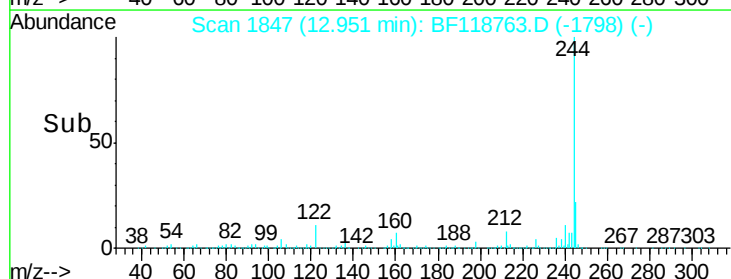
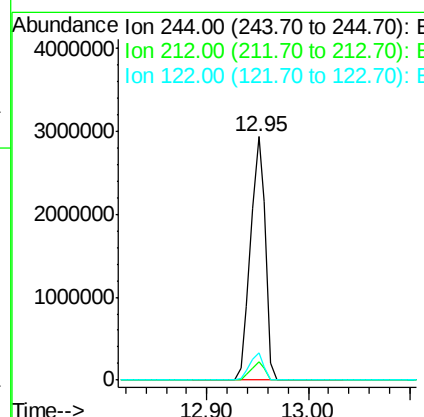
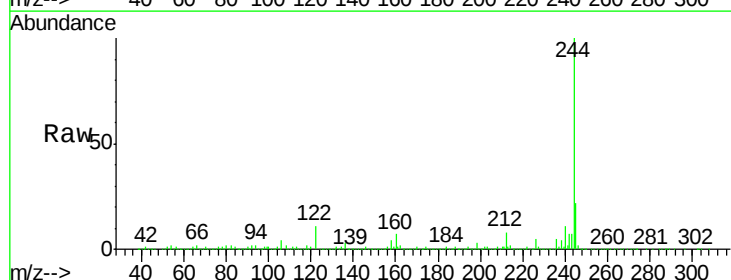
Manual Integrations
APPROVED

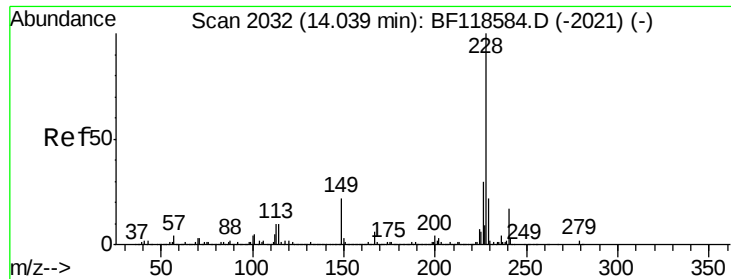
mohammad
2/3/2020 7:57:19 AM



#79
Terphenyl-d14
Concen: 93.472 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.3	9.5
122	11.1	9.2	13.8





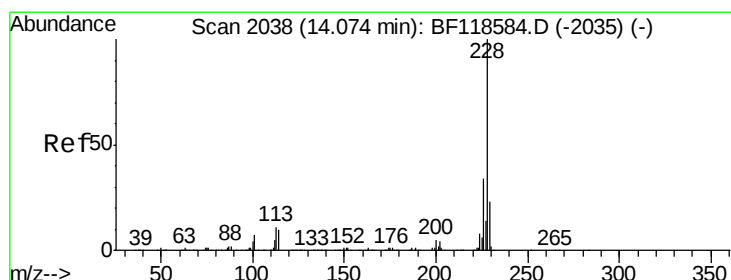
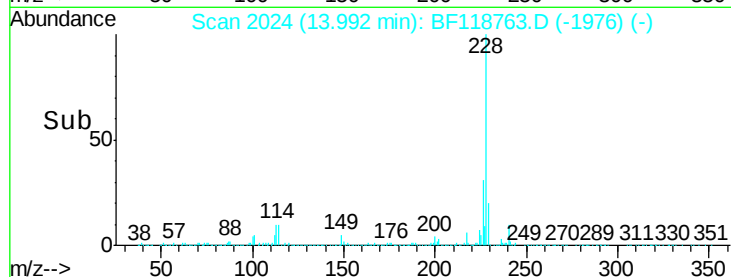
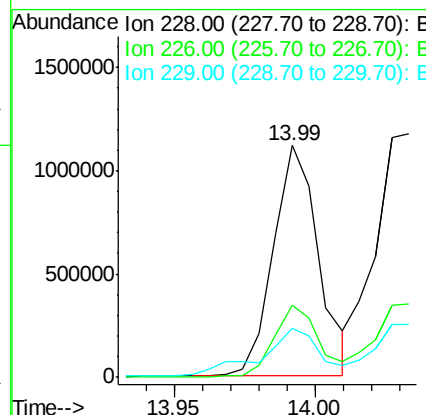
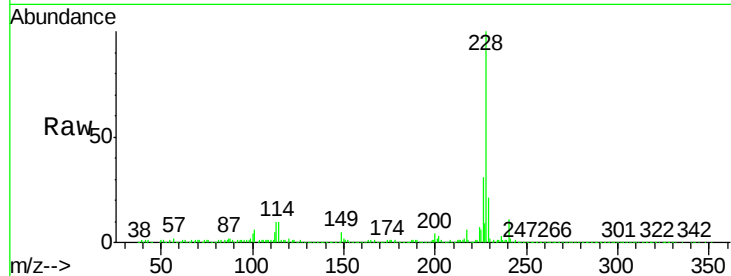
#81
Benzo(a)anthracene
Concen: 29.658 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.6	34.0
229	21.0	16.6	25.0

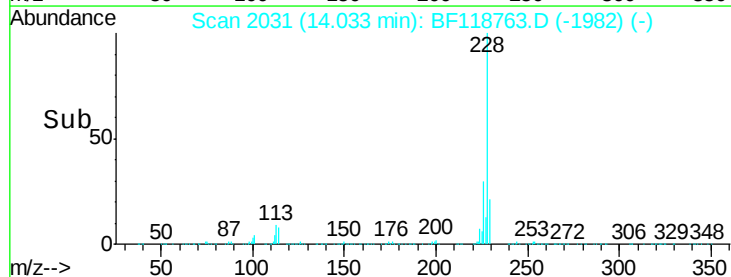
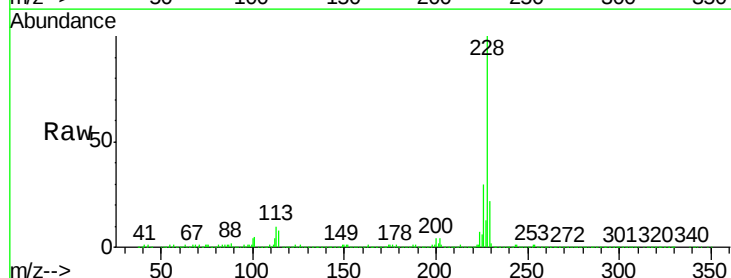
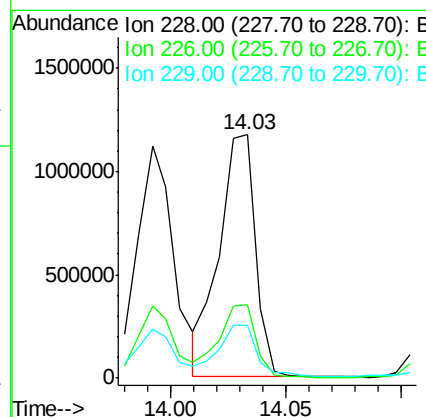
Manual Integrations
APPROVED

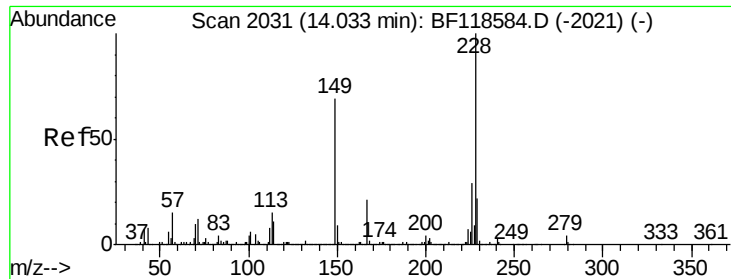
mohammad
2/3/2020 7:57:19 AM



#83
Chrysene
Concen: 32.085 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.6	38.4
229	21.9	17.1	25.7





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.243 ng

RT: 13.99 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Instrument :

BNA_F

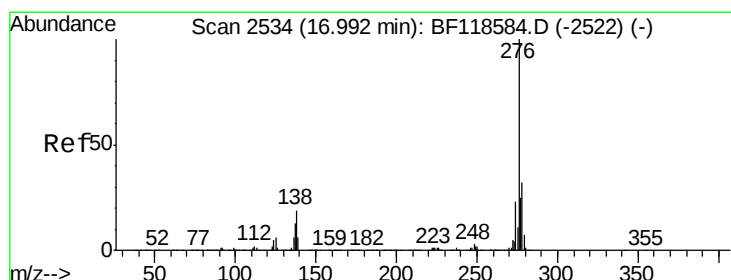
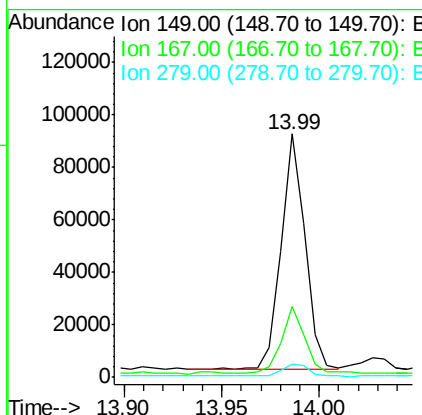
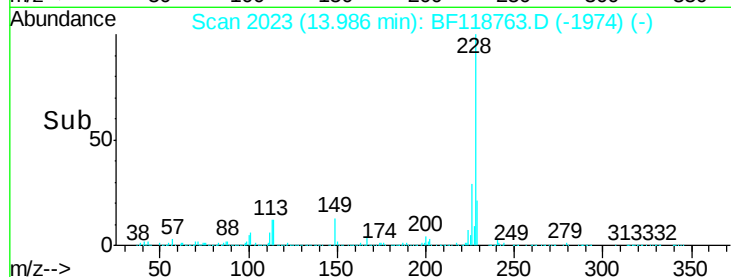
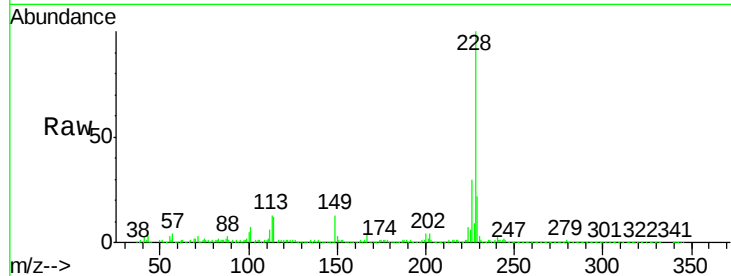
ClientSampleId :

RBR-51

Tot Ion:	149	Resp:	76616
Ion Ratio	Lower	Upper	
149	100		
167	29.1	23.6	35.4
279	5.7	4.5	6.7

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 33.878 ng

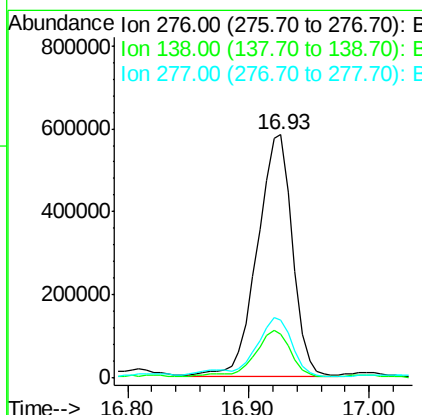
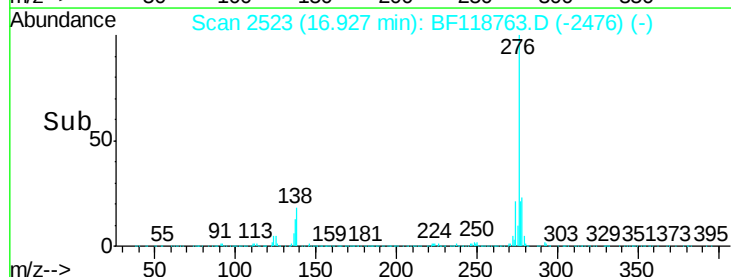
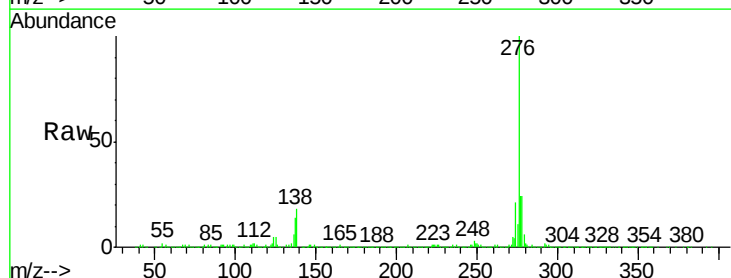
RT: 16.93 min Scan# 2523

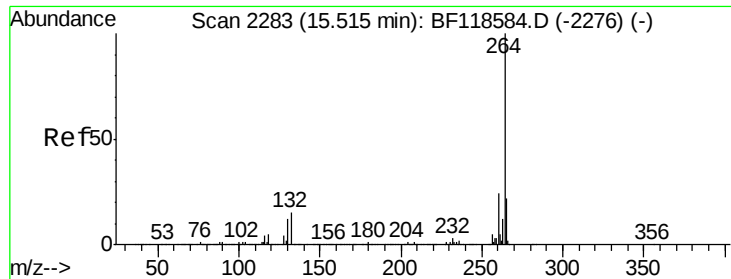
Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tgt Ion:	276	Resp:	1181218
Ion Ratio	Lower	Upper	
276	100		
138	19.9	18.2	27.4
277	23.9	20.4	30.6





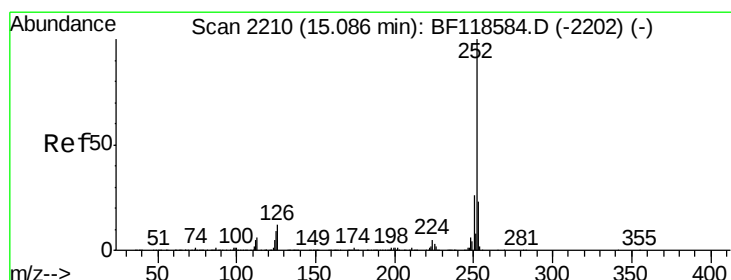
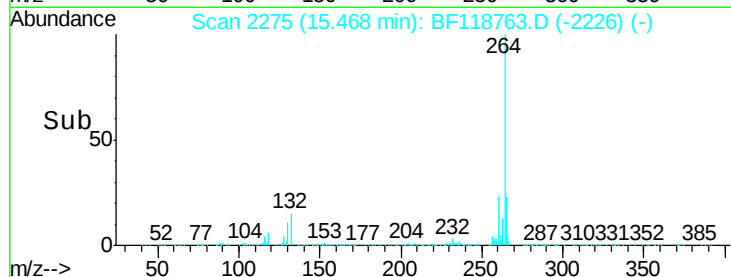
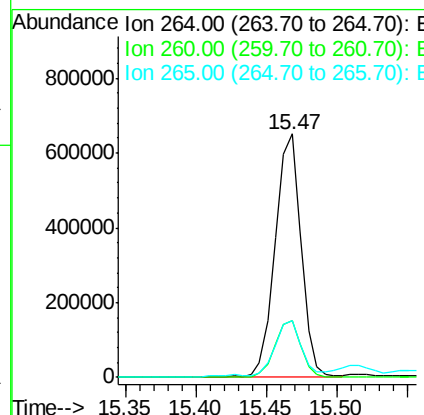
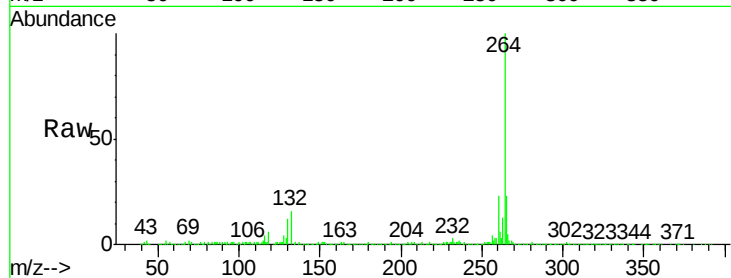
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.01 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	23.2	17.0	25.6

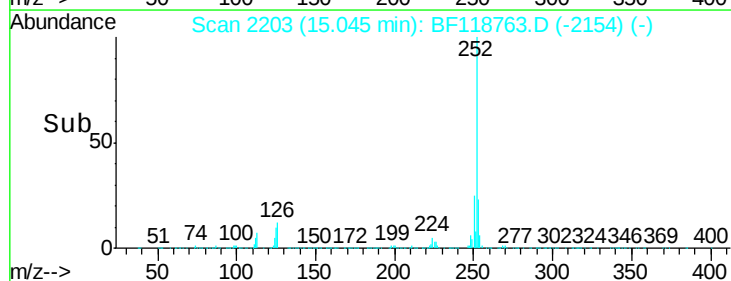
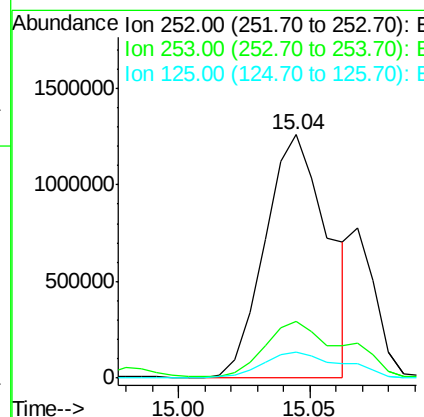
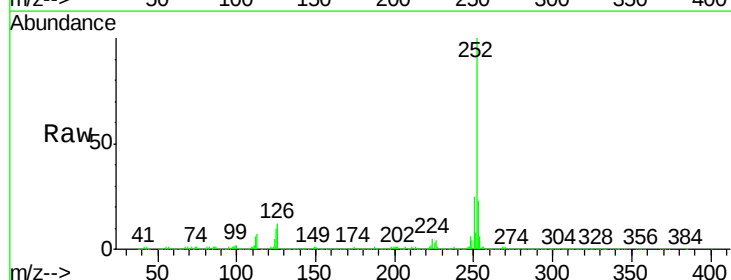
Manual Integrations
APPROVED

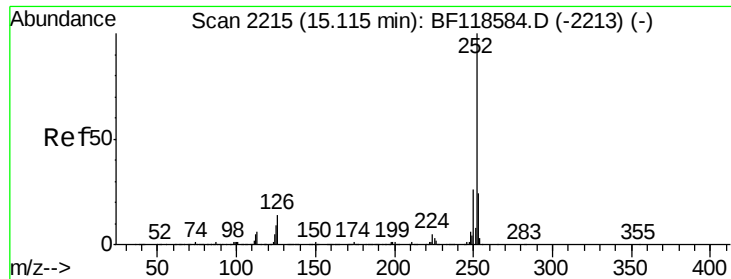
mohammad
2/3/2020 7:57:19 AM



#88
Benzo(b)fluoranthene
Concen: 40.241 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	10.5	7.7	11.5





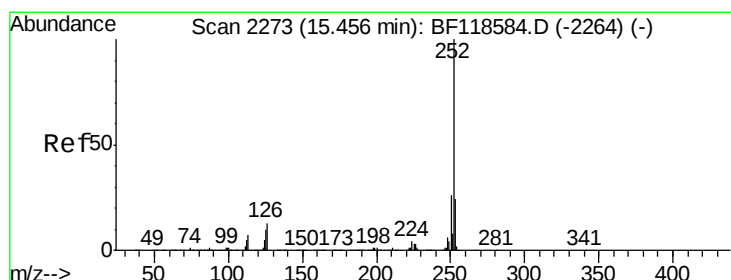
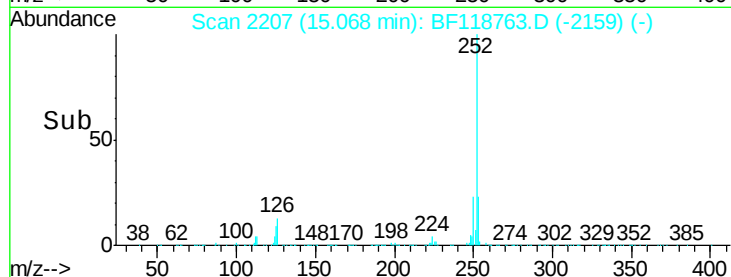
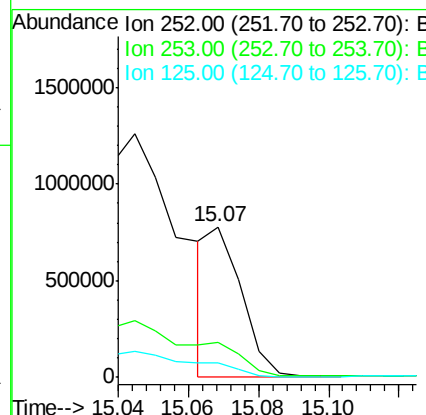
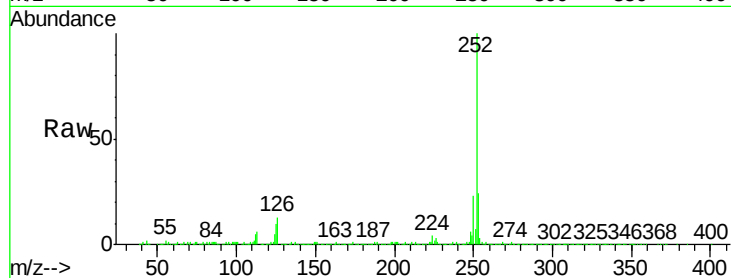
#89
Benzo(k)fluoranthene
Concen: 10.620 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Instrument :
BNA_F
ClientSampleId :
RBR-51

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	9.7	8.1	12.1

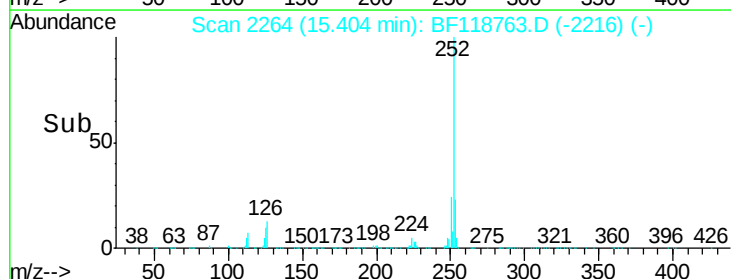
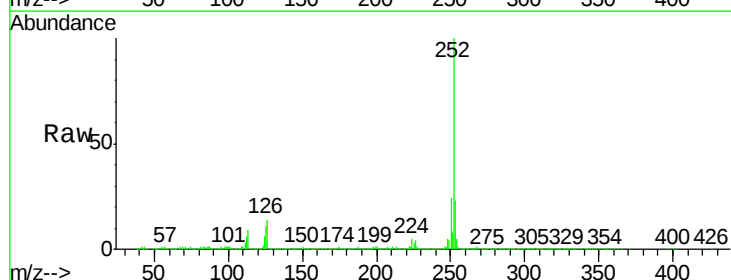
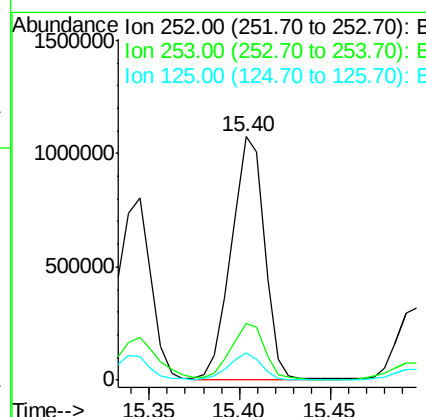
Manual Integrations
APPROVED

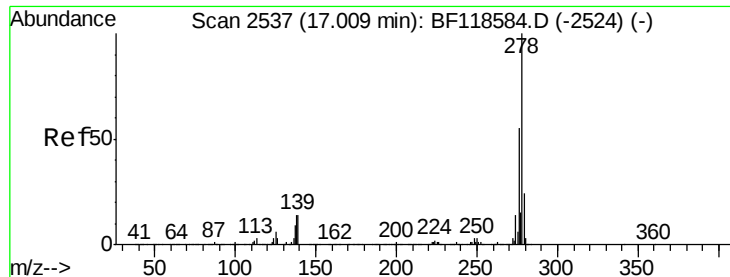
mohammad
2/3/2020 7:57:19 AM



#90
Benzo(a)pyrene
Concen: 29.974 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.02 min
Lab File: BF118763.D
Acq: 30 Jan 2020 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	11.0	8.3	12.5





#91

Dibenzo(a,h)anthracene

Concen: 6.670 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.04 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Instrument :

BNA_F

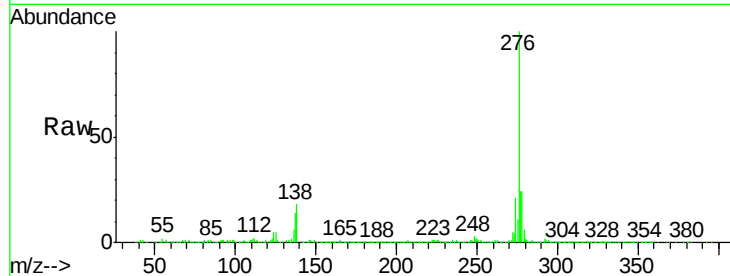
ClientSampleId :

RBR-51

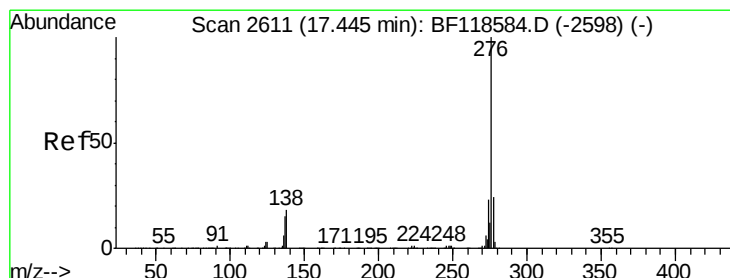
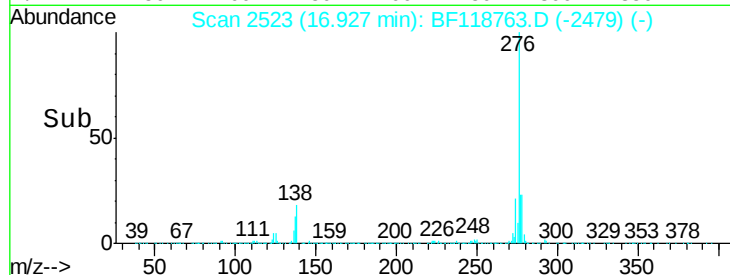
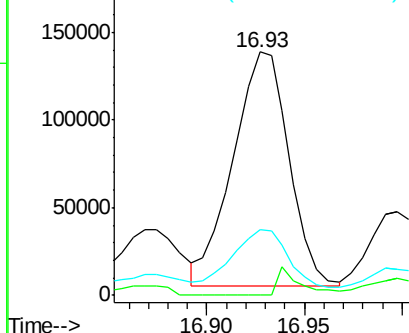
Tot Ion:	278	Resp:	268662
Ion Ratio	Lower	Upper	
278	100		
139	0.0	11.8	17.6#
279	27.1	19.1	28.7

Manual Integrations
APPROVED

mohammad
2/3/2020 7:57:19 AM



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: 29.321 ng

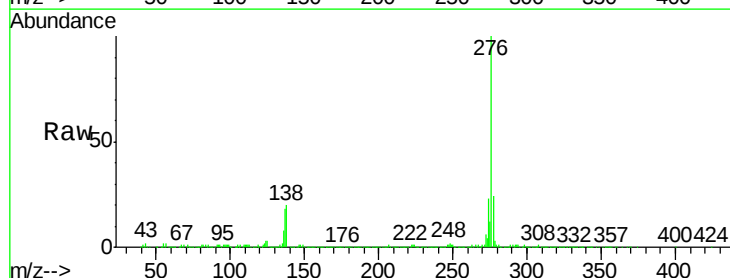
RT: 17.37 min Scan# 2598

Delta R.T. -0.02 min

Lab File: BF118763.D

Acq: 30 Jan 2020 20:41

Tgt Ion:	276	Resp:	1146774
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.0	28.6
138	20.5	15.4	23.2



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

