

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
 Data File : BF121166.D
 Acq On : 31 Jul 2020 19:01
 Operator : JU/CG
 Sample : L3481-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-72-12012

Manual Integrations
 APPROVED

mohammad
 8/3/2020 12:22:58 PM

Quant Time: Aug 01 03:06:13 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	131955	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	503722	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	257603	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	479236	20.00	ng	0.00
76) Chrysene-d12	13.96	240	306507	20.00	ng	0.00
86) Perylene-d12	15.42	264	333553	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	659755	81.97	ng	0.00
7) Phenol-d6	6.43	99	804959	77.42	ng	-0.01
23) Nitrobenzene-d5	7.36	82	527078	60.55	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	228049	80.88	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	974360	56.47	ng	0.00
79) Terphenyl-d14	12.91	244	891124	63.20	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.10	128	192631	7.455	ng	98
37) 2-Methylnaphthalene	8.79	142	281715	16.792	ng	99
38) 1-Methylnaphthalene	8.89	142	144783	9.112	ng	98
50) Dimethylphthalate	9.55	163	185599	9.987	ng	98
52) Acenaphthene	9.86	154	51198	3.236	ng	99
58) Fluorene	10.38	166	65217	3.821	ng	99
71) Phenanthrene	11.35	178	366735	14.879	ng	99
72) Anthracene	11.40	178	106263	4.294	ng	99
75) Fluoranthene	12.53	202	381681	13.971	ng	98
78) Pyrene	12.76	202	297181	13.714	ng	99
81) Benzo(a)anthracene	13.95	228	128682	6.933	ng	99
83) Chrysene	13.99	228	105948	5.432	ng	95
87) Indeno(1,2,3-cd)pyrene	16.84	276	49413	2.130	ng	98
88) Benzo(b)fluoranthene	14.99	252	125118m	6.206	ng	
90) Benzo(a)pyrene	15.35	252	81288	4.419	ng	99
92) Benzo(g,h,i)perylene	17.27	276	53890	2.884	ng	98

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

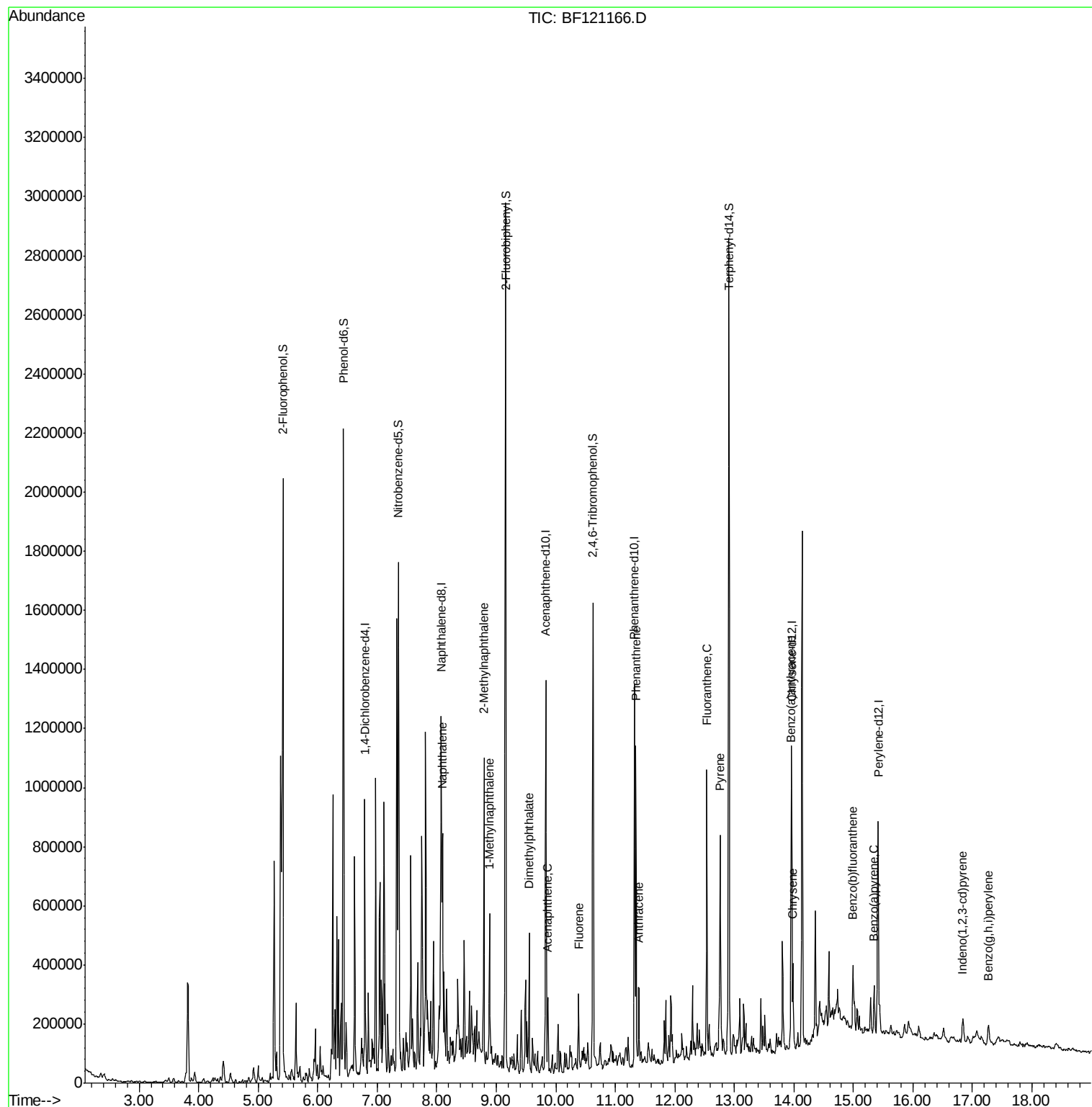
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121166.D
Acq On : 31 Jul 2020 19:01
Operator : JU/CG
Sample : L3481-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

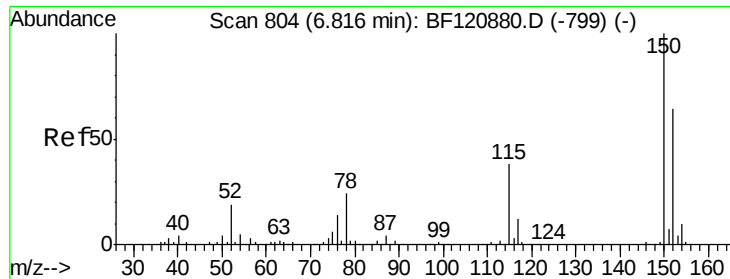
Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM

Quant Time: Aug 01 03:06:13 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 29 14:55:43 2020
Response via : Initial Calibration





#1

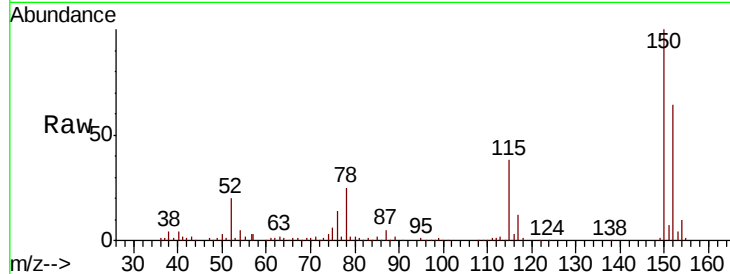
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.6	188.4
115	60.1	46.2	69.2

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM

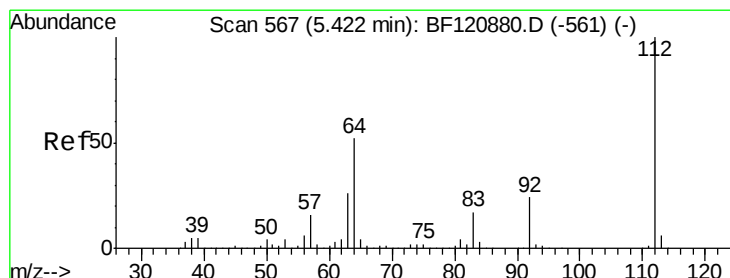
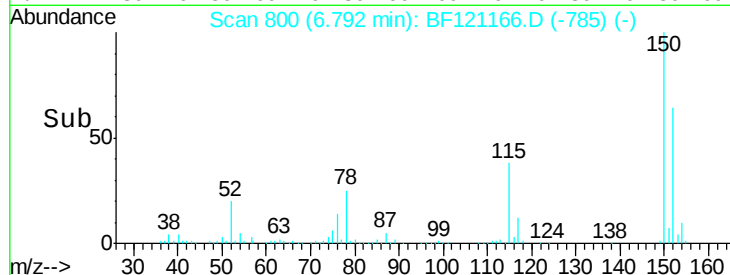
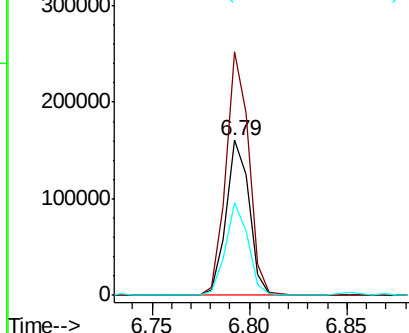


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

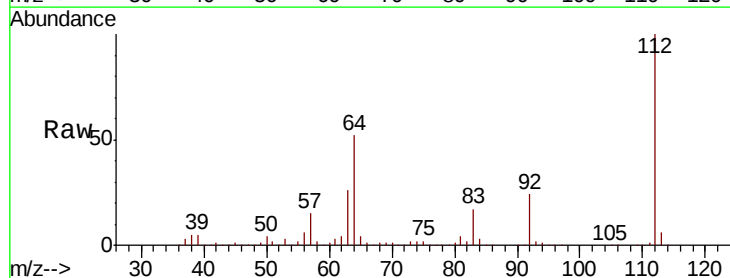
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 81.965 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.8	43.9	65.9
63	25.9	22.7	34.1

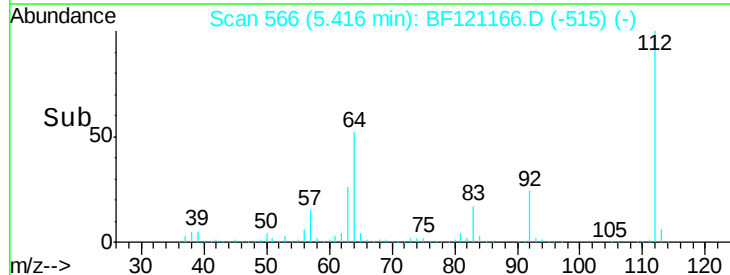
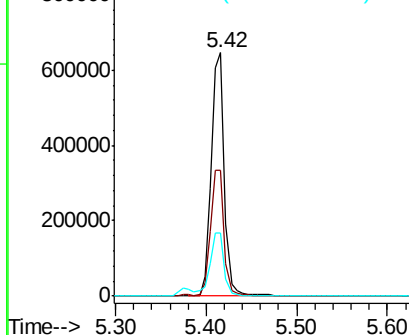


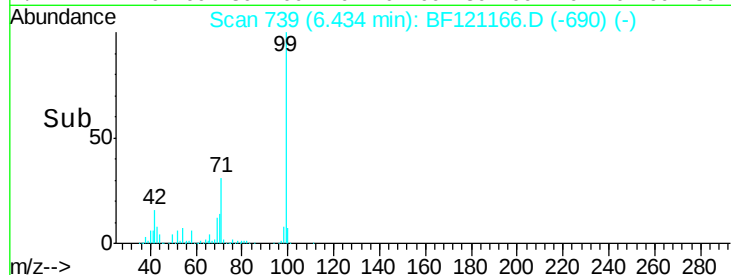
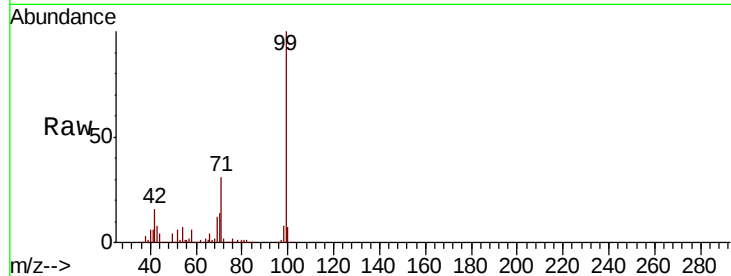
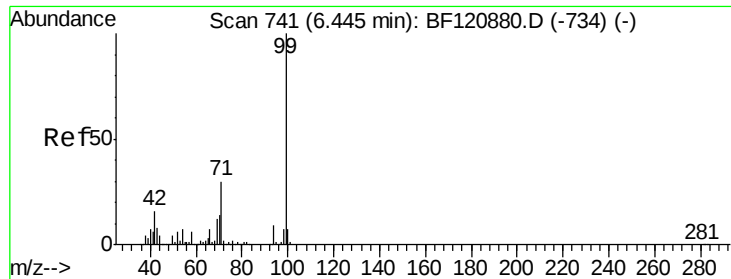
Abundance

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: 77.418 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

Tot Ion:	99	Resp:	804959
Ion Ratio	Lower	Upper	
99	100		
42	16.5	13.5	20.3
71	31.2	25.0	37.4

Instrument :

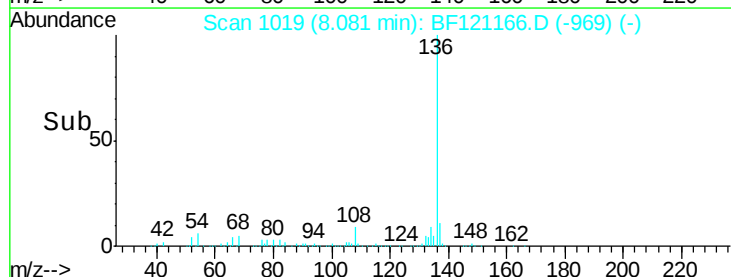
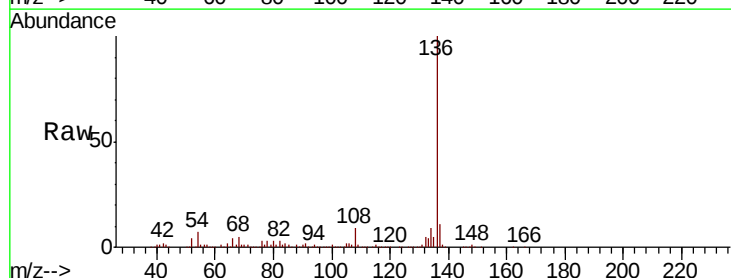
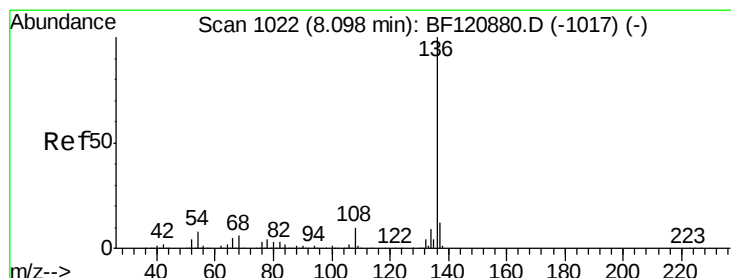
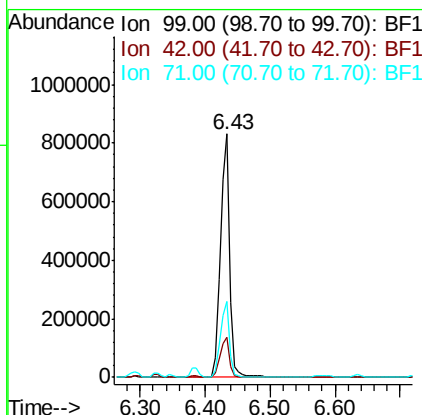
BNA_F

ClientSampleId :

ROLLOFF-72-12012

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM



#21

Naphthalene-d8

Concen: 20.000 ng

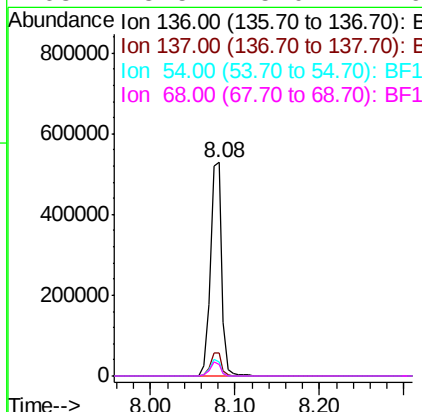
RT: 8.08 min Scan# 1019

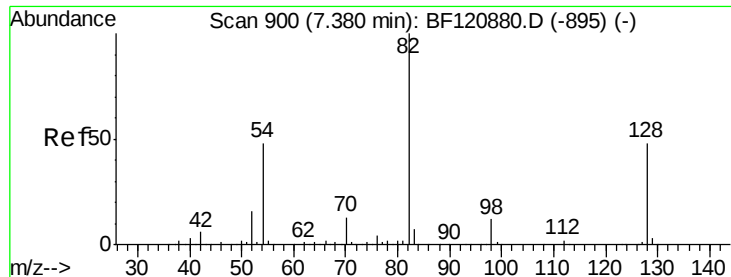
Delta R.T. -0.01 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

Tgt Ion:	136	Resp:	503722
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.0	13.4
54	6.6	6.1	9.1
68	5.5	5.0	7.6





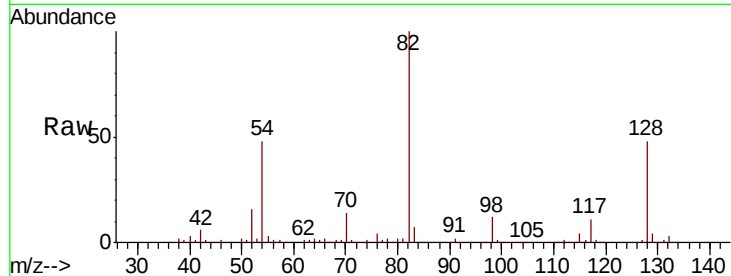
#23
Nitrobenzene-d5
Concen: 60.546 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.02 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

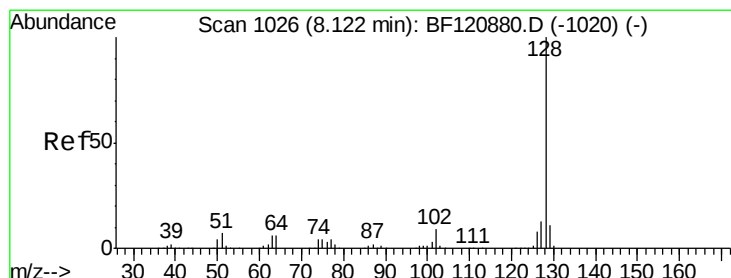
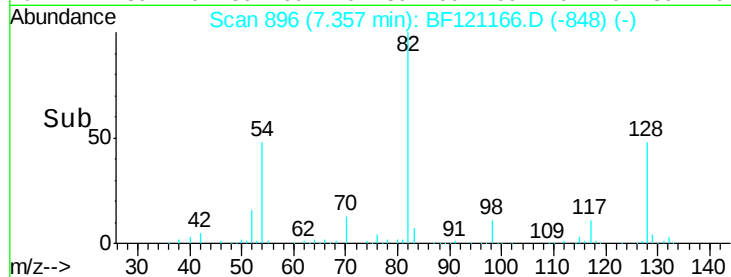
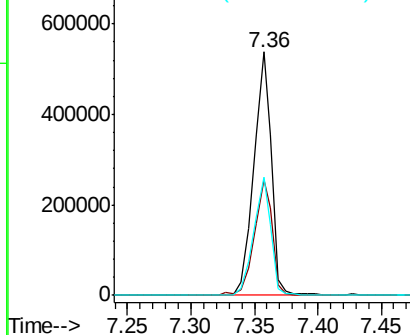
Tot Ion	Ratio	Lower	Upper
82	100		
128	47.7	39.2	58.8
54	48.3	37.8	56.8

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM



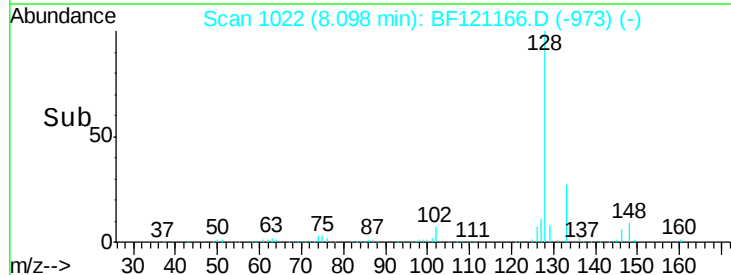
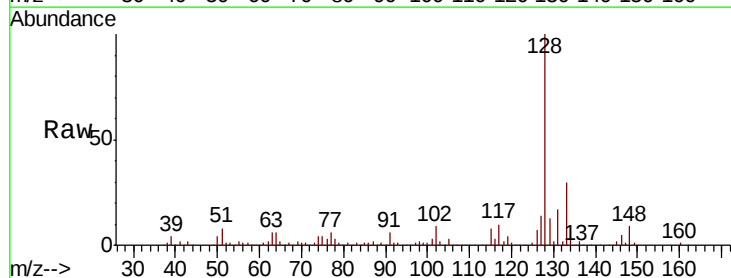
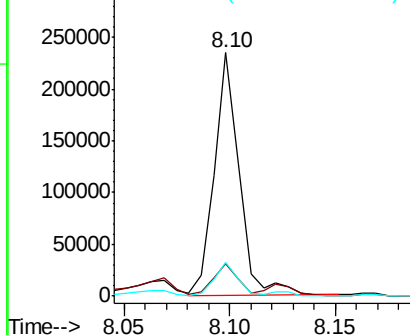
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

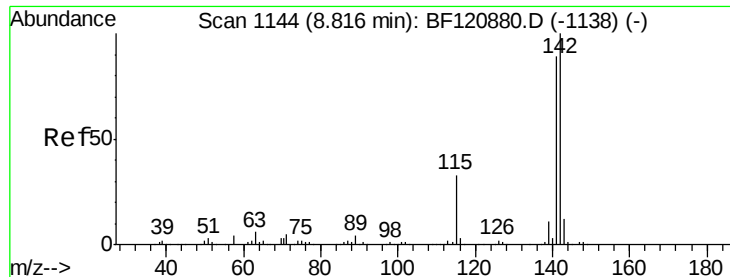


#31
Naphthalene
Concen: 7.455 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.1	9.3	13.9
127	13.7	10.8	16.2

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





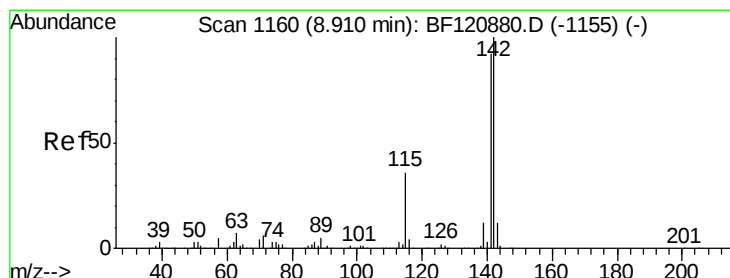
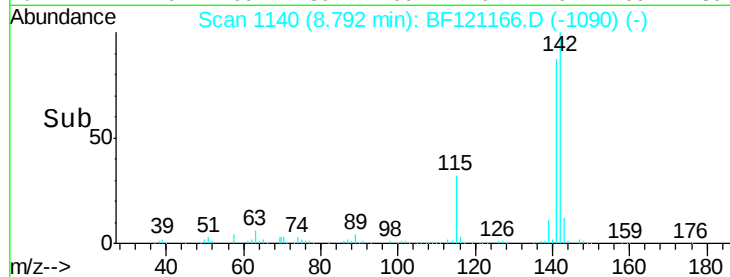
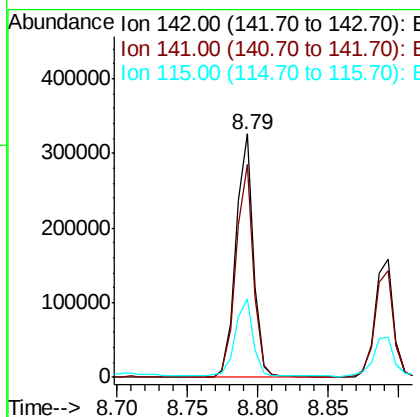
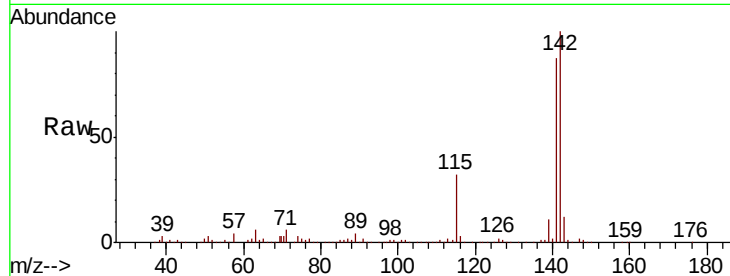
#37
2-Methylnaphthalene
Concen: 16.792 ng
RT: 8.79 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Resp	Lower	Upper
142	100	281715		
141	87.2		70.6	105.8
115	32.5		27.1	40.7

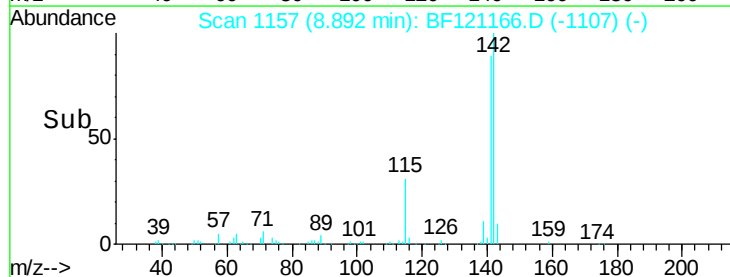
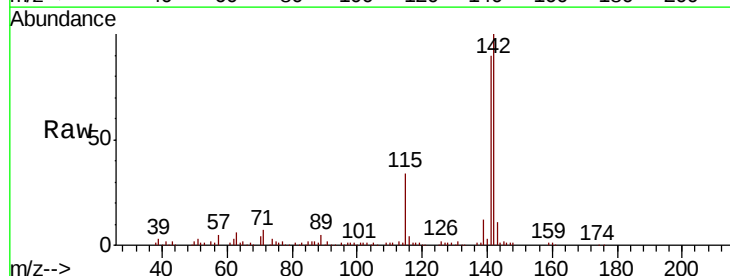
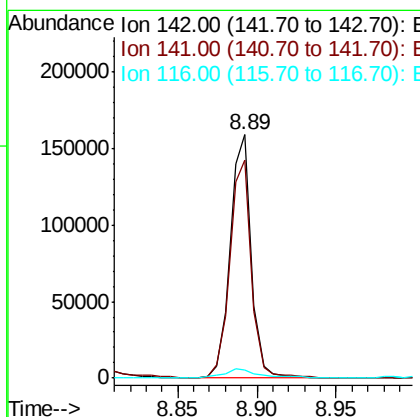
Manual Integrations
APPROVED

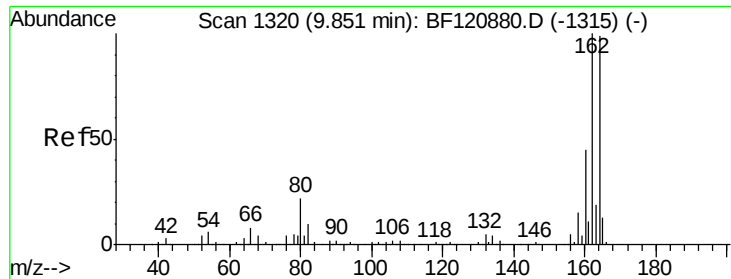
mohammad
8/3/2020 12:22:58 PM



#38
1-Methylnaphthalene
Concen: 9.112 ng
RT: 8.89 min Scan# 1157
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	144783		
141	89.5		73.0	109.6
116	3.6		3.0	4.6





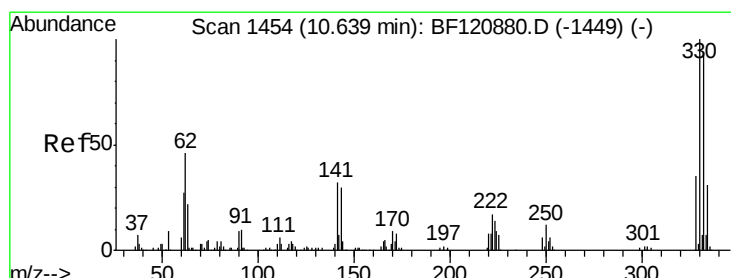
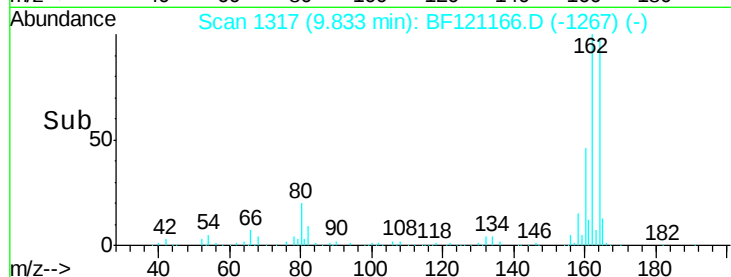
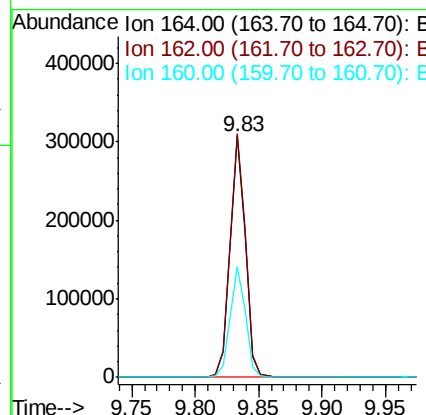
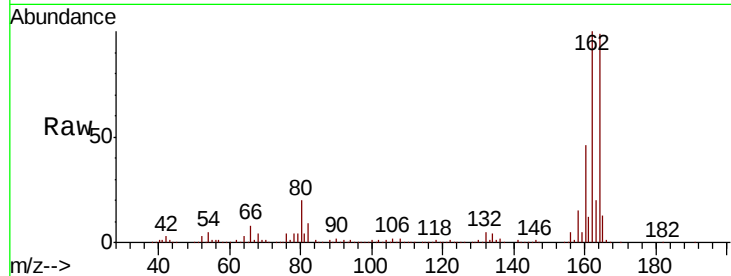
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.2	123.2
160	46.0	37.2	55.8

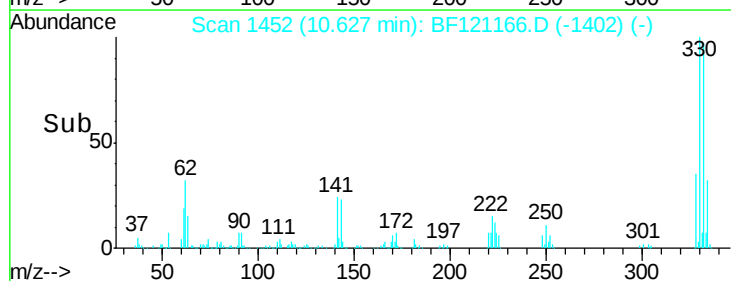
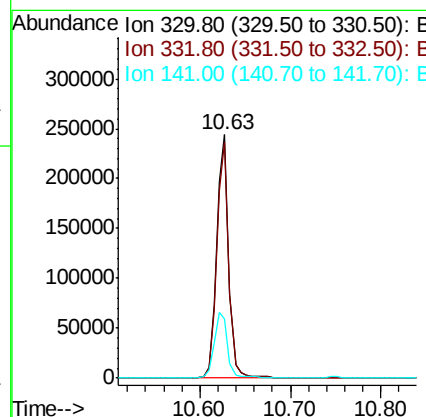
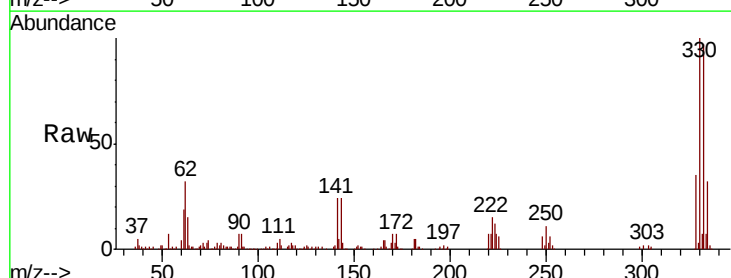
Manual Integrations
APPROVED

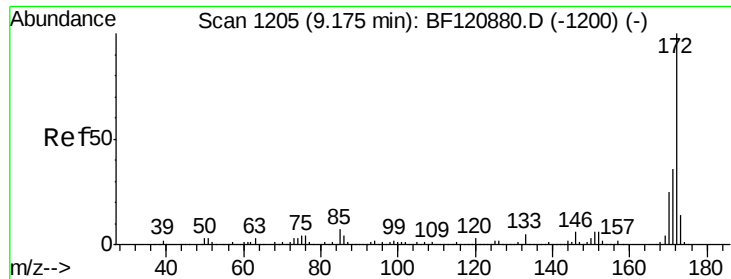
mohammad
8/3/2020 12:22:58 PM



#42
2,4,6-Tribromophenol
Concen: 80.876 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.1	114.1
141	29.9	24.1	36.1





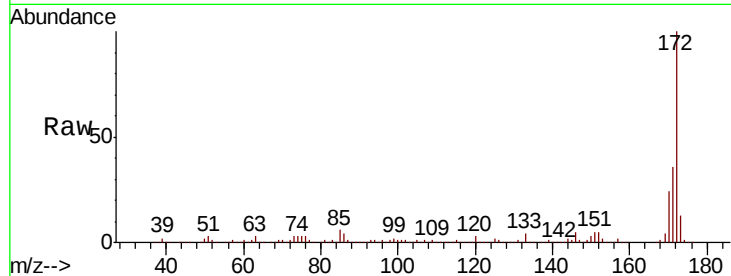
#45
2-Fluorobiphenyl
Concen: 56.473 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Resp	Lower	Upper
172	100	974360		
171	35.9		29.0	43.4
170	24.1		19.6	29.4

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM

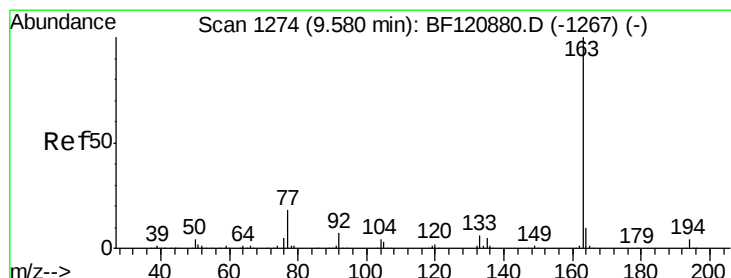
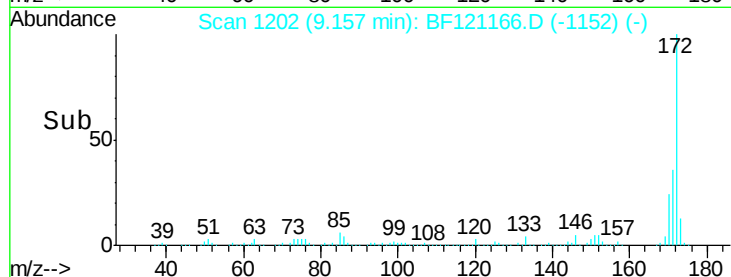
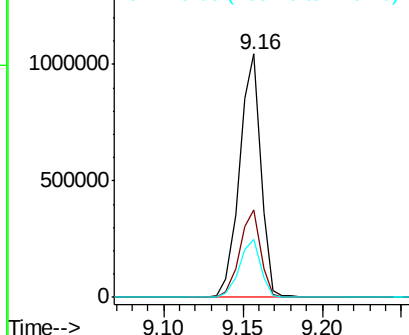


Abundance

Ion 172.00 (171.70 to 172.70): E

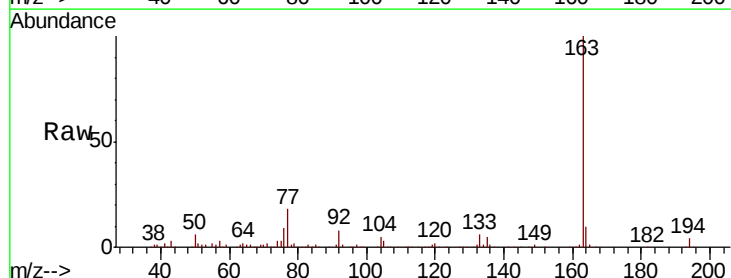
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 9.987 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.02 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	185599		
194	3.8		3.0	4.4
164	9.7		8.4	12.6

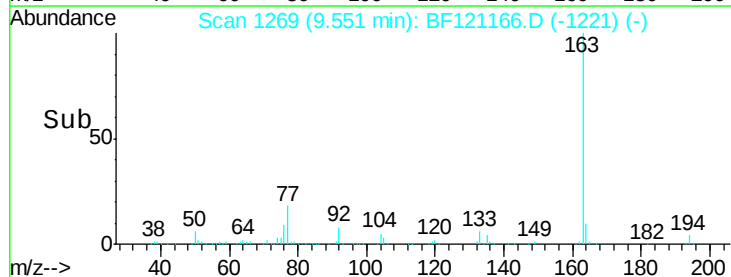
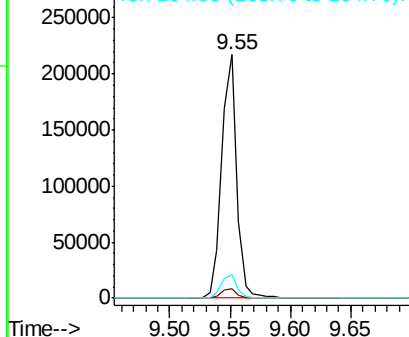


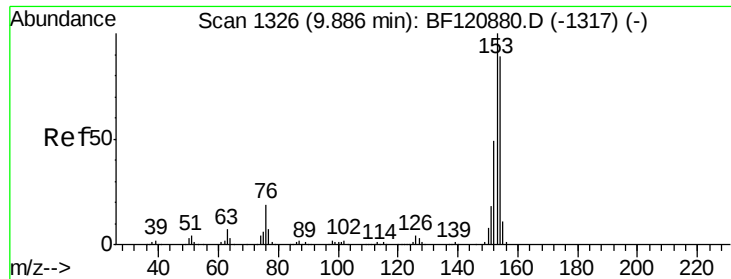
Abundance

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





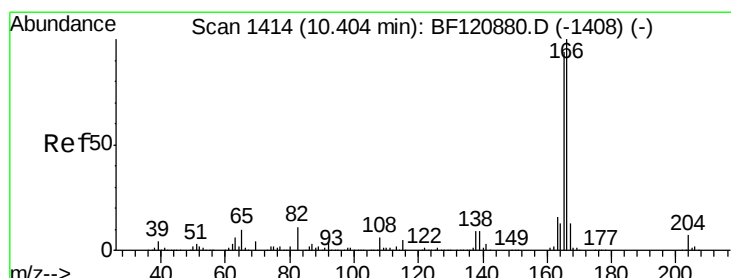
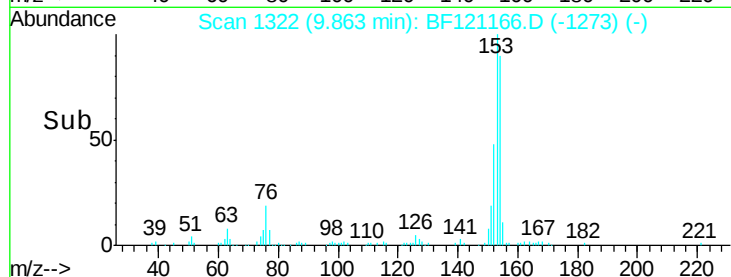
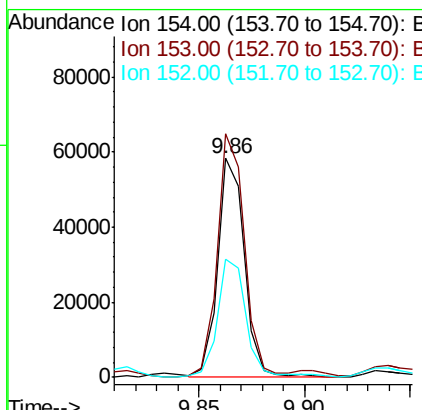
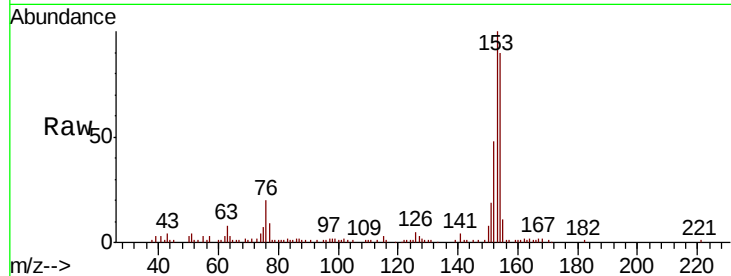
#52
Acenaphthene
Concen: 3.236 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.6	134.4
152	53.7	43.8	65.6

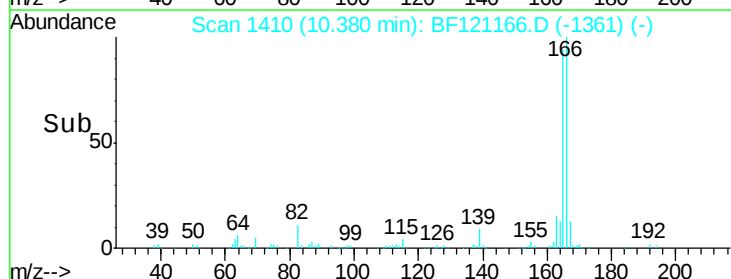
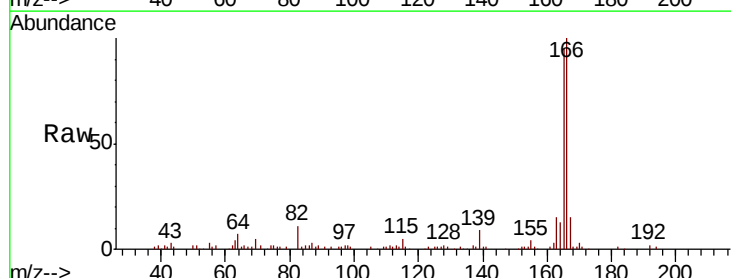
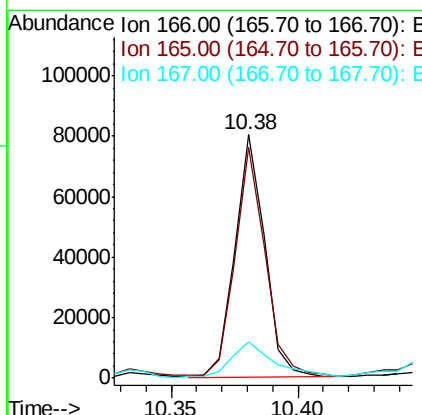
Manual Integrations
APPROVED

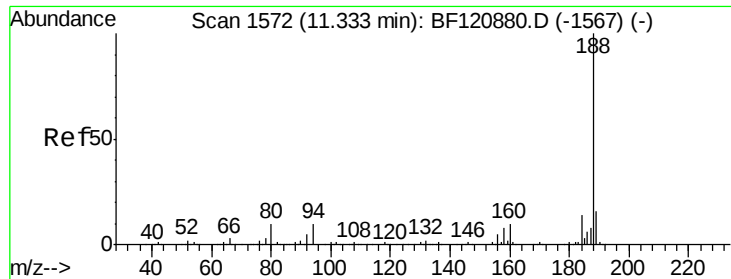
mohammad
8/3/2020 12:22:58 PM



#58
Fluorene
Concen: 3.821 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.8	76.4	114.6
167	15.1	10.7	16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

Instrument :

BNA_F

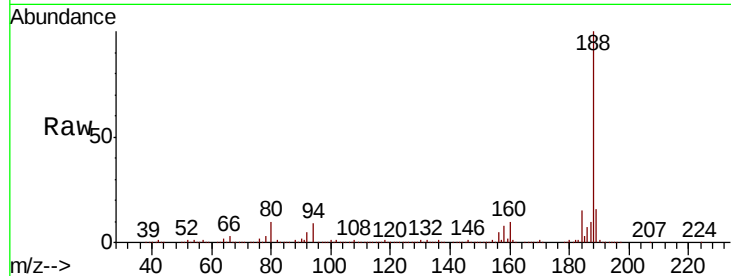
ClientSampleId :

ROLLOFF-72-12012

Tot Ion:	188	Resp:	479236
Ion Ratio	Lower	Upper	
188	100		
94	9.3	8.0	12.0
80	9.6	8.3	12.5

Manual Integrations
APPROVED

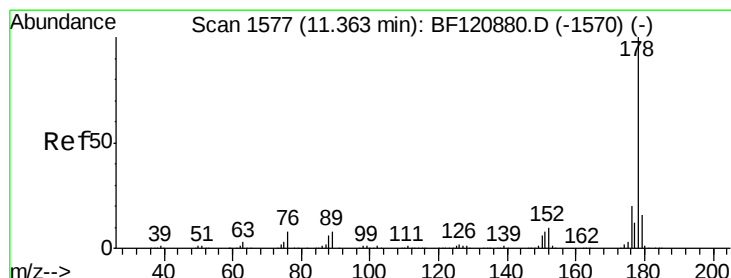
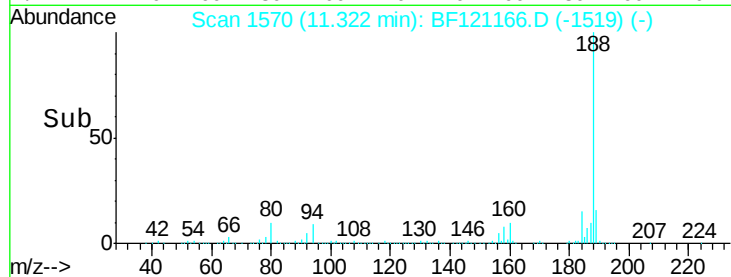
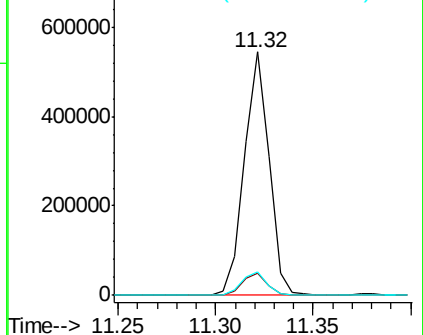
mohammad
8/3/2020 12:22:58 PM



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



#71

Phenanthrene

Concen: 14.879 ng

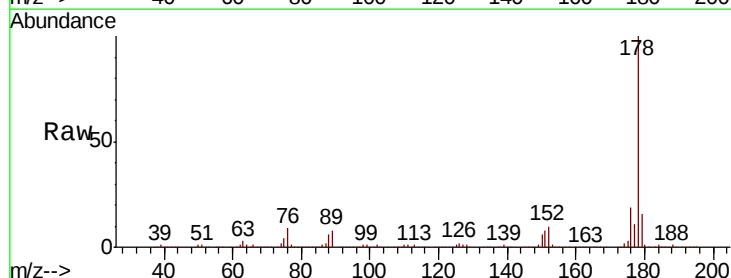
RT: 11.35 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

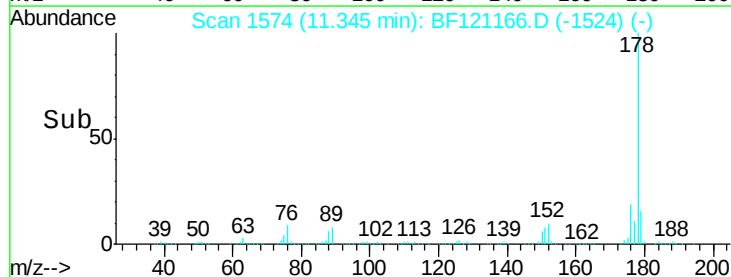
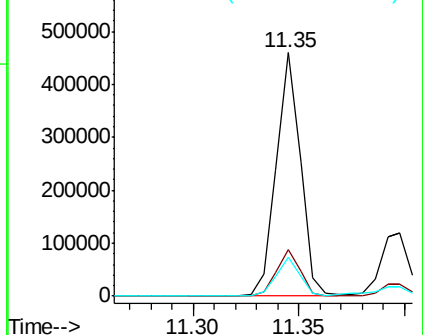
Tgt Ion:	178	Resp:	366735
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.2	24.2
179	15.8	12.6	19.0

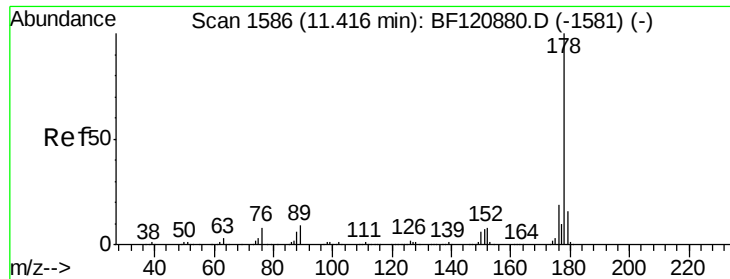


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





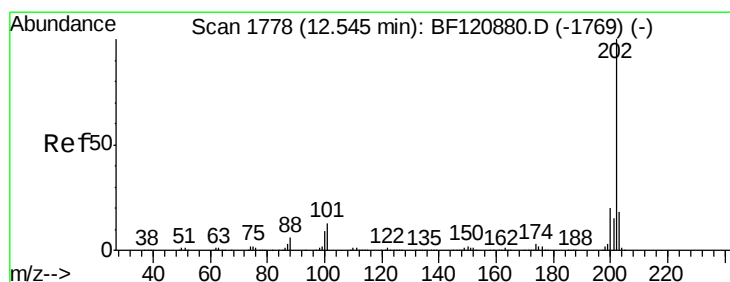
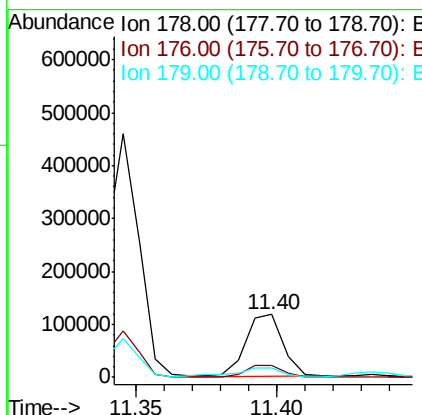
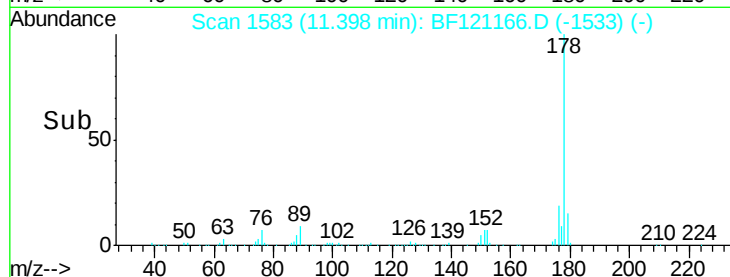
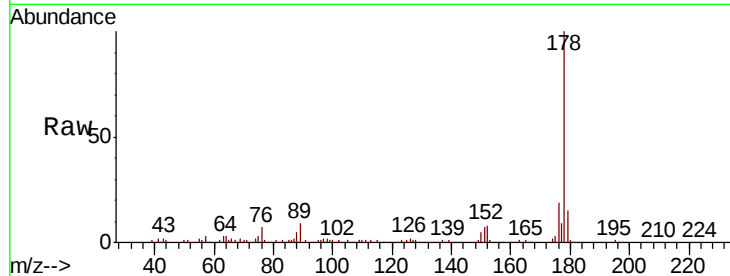
#72
 Anthracene
 Concen: 4.294 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.3	12.6	19.0

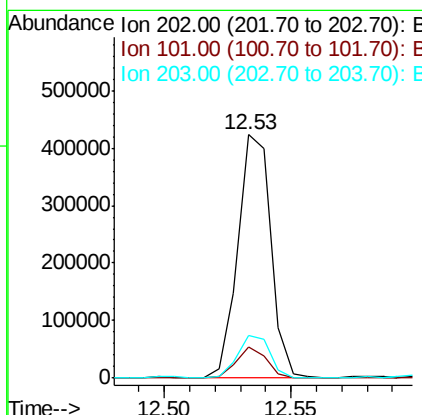
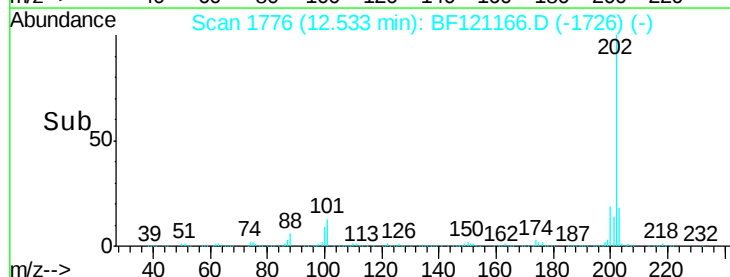
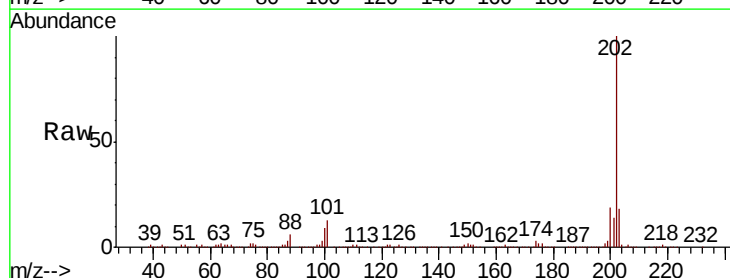
Manual Integrations
 APPROVED

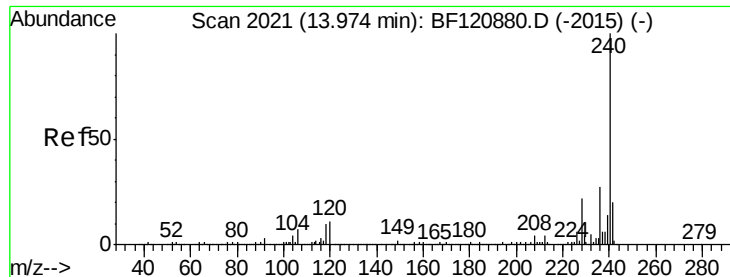
mohammad
 8/3/2020 12:22:58 PM



#75
 Fluoranthene
 Concen: 13.971 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. -0.01 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	30.5
203	17.6	0.0	37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.00 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

Instrument :

BNA_F

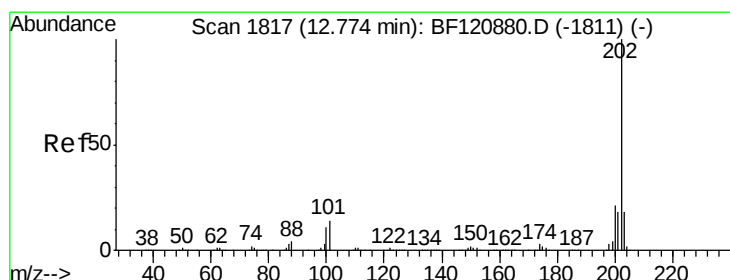
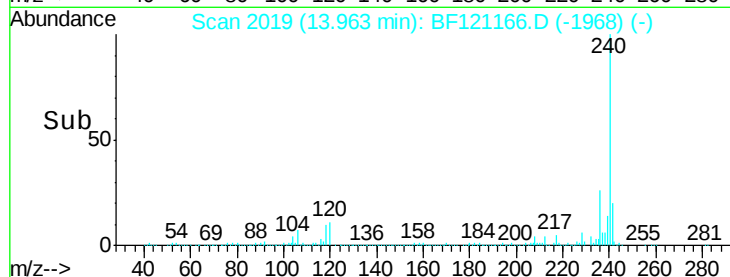
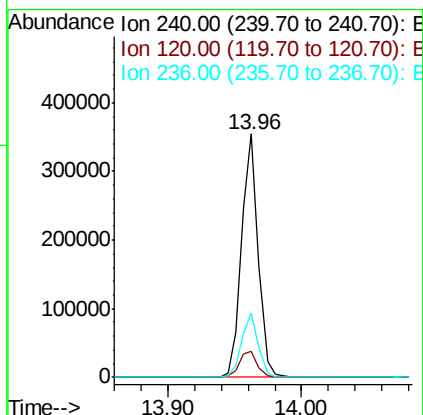
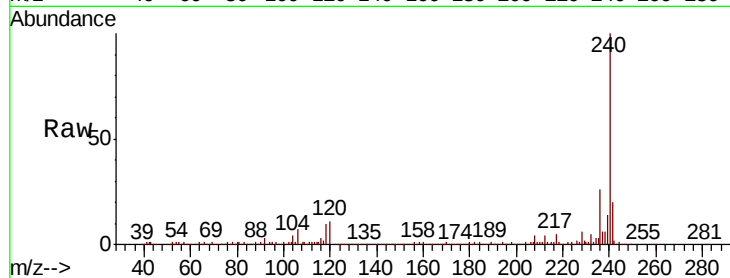
ClientSampleId :

ROLLOFF-72-12012

Tot Ion:	240	Resp:	306507
Ion Ratio		Lower	Upper
240	100		
120	10.7	9.3	13.9
236	26.3	21.1	31.7

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM



#78

Pyrene

Concen: 13.714 ng

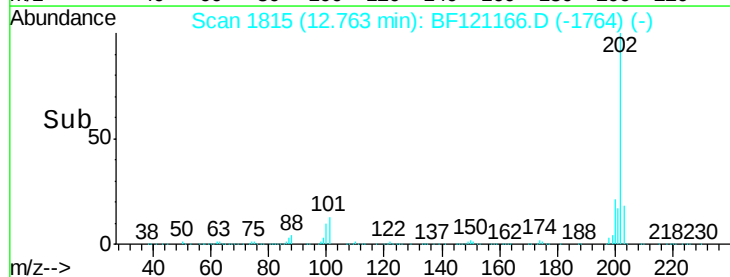
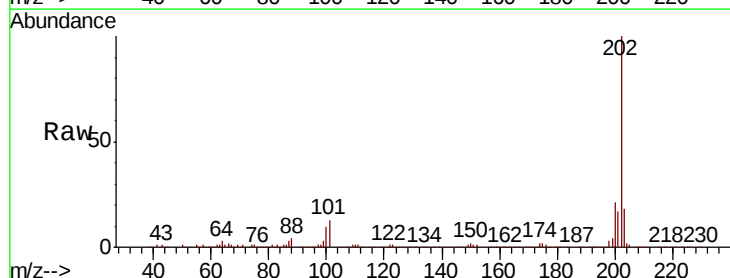
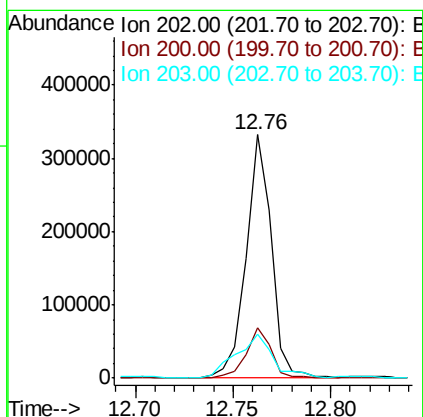
RT: 12.76 min Scan# 1815

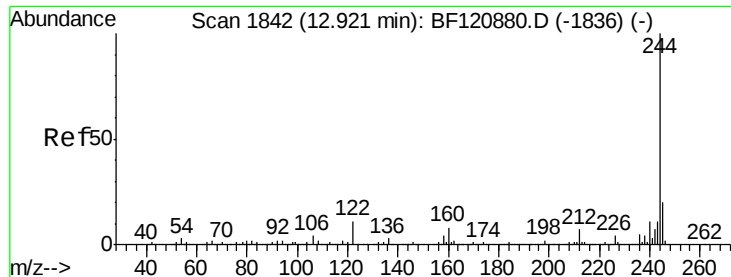
Delta R.T. -0.00 min

Lab File: BF121166.D

Acq: 31 Jul 2020 19:01

Tgt Ion:	202	Resp:	297181
Ion Ratio		Lower	Upper
202	100		
200	20.6	17.0	25.6
203	18.1	14.6	21.8





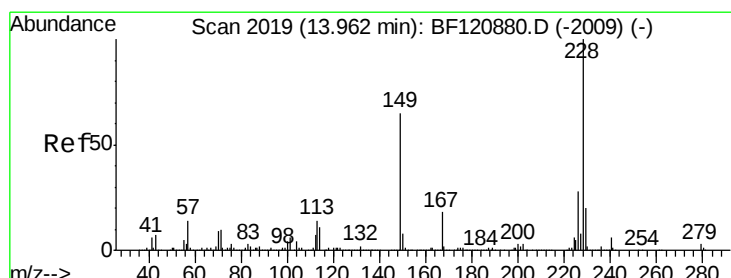
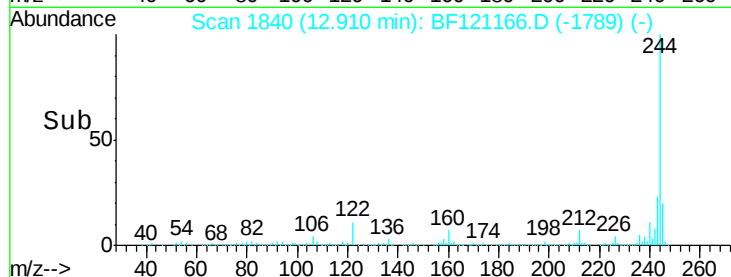
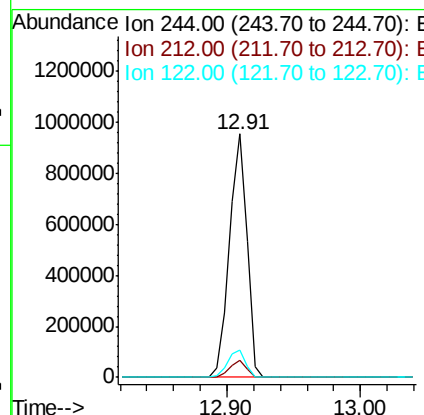
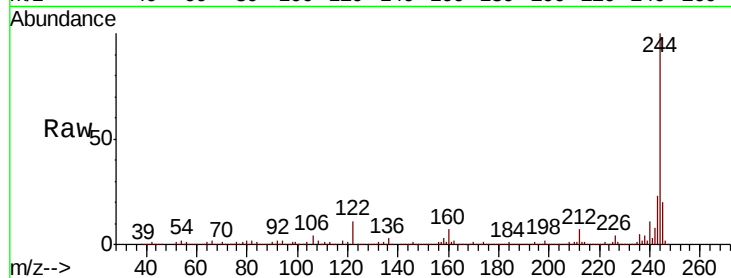
#79
 Terphenyl-d14
 Concen: 63.200 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.00 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	11.0	8.3	12.5

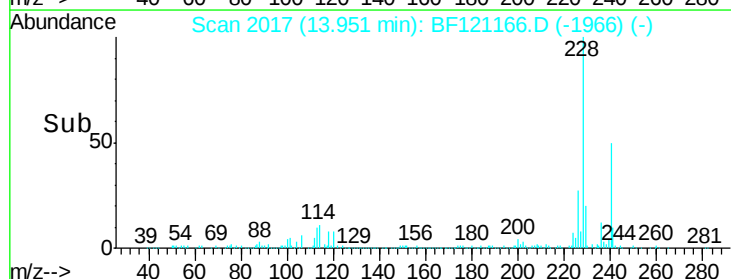
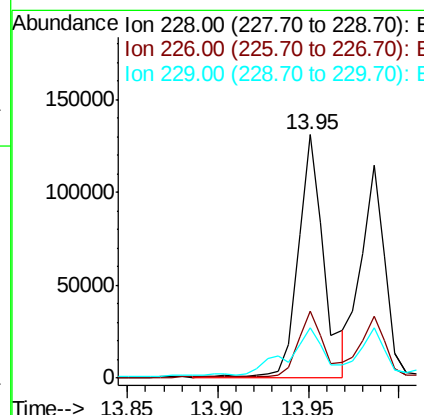
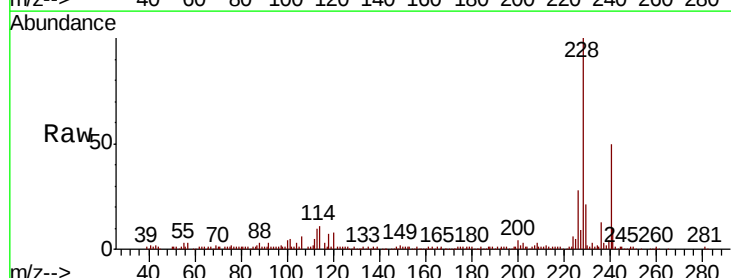
Manual Integrations
 APPROVED

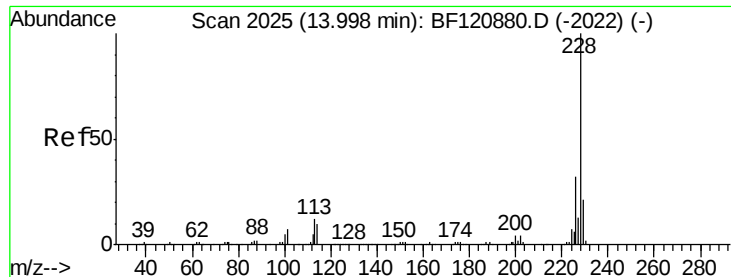
mohammad
 8/3/2020 12:22:58 PM



#81
 Benzo(a)anthracene
 Concen: 6.933 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. -0.00 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.6	34.0
229	20.7	16.1	24.1





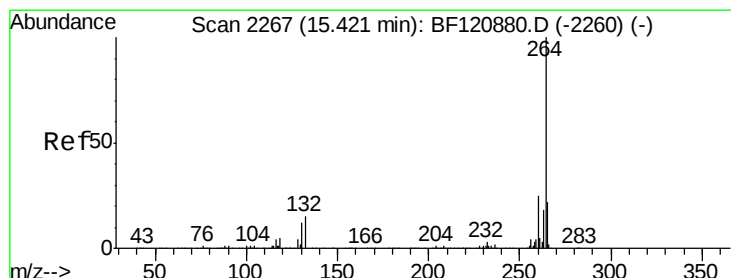
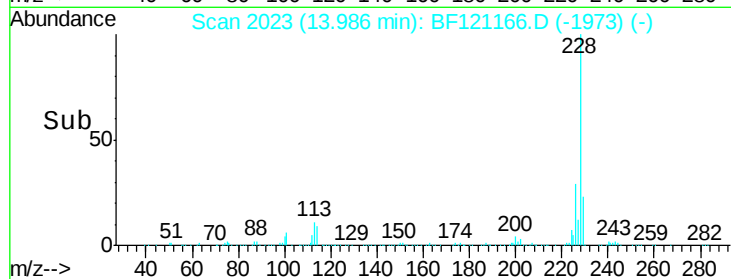
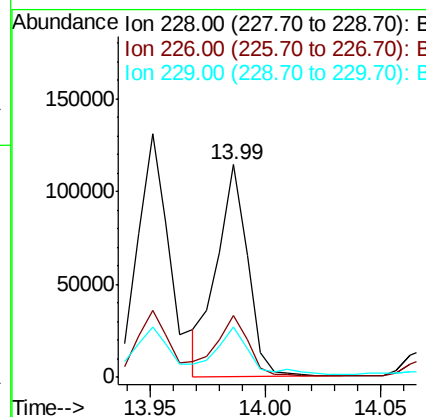
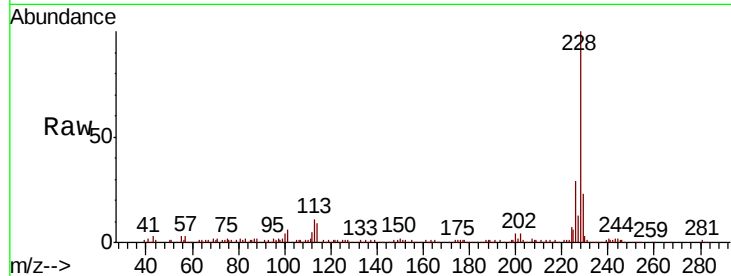
#83
Chrysene
Concen: 5.432 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.4	38.0
229	23.5	16.2	24.4

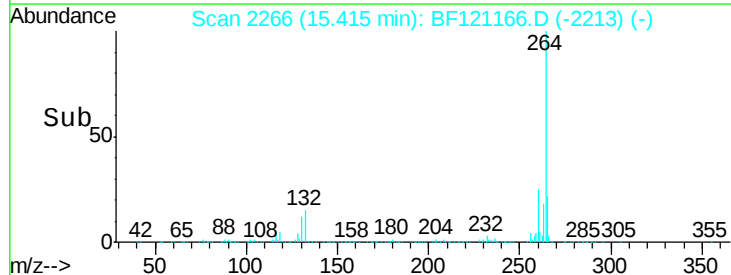
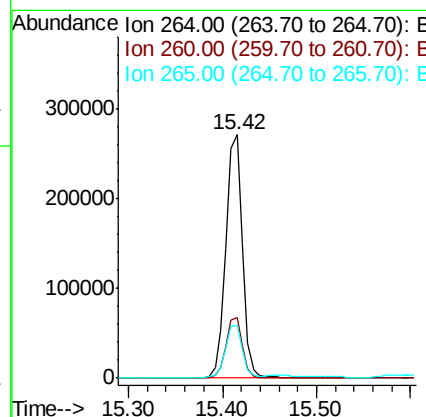
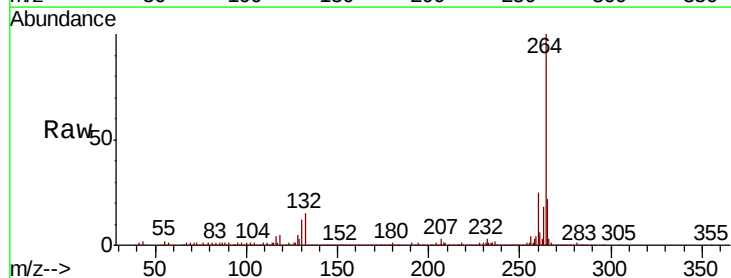
Manual Integrations
APPROVED

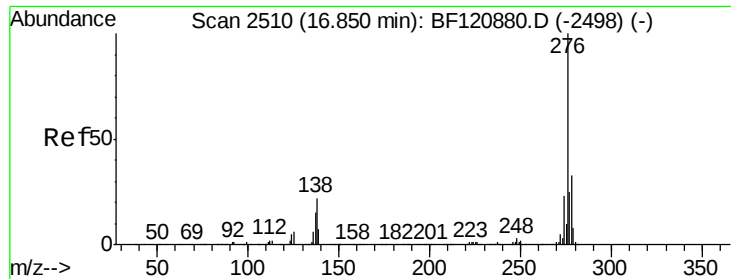
mohammad
8/3/2020 12:22:58 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.9	29.9
265	21.8	17.8	26.8





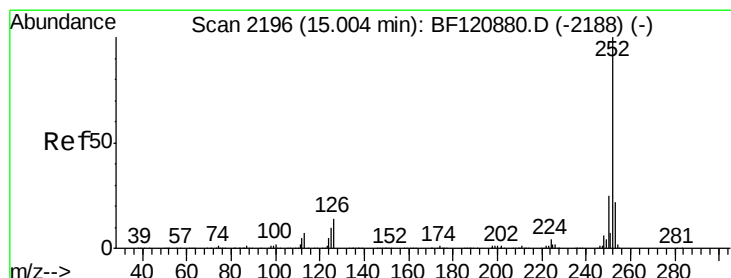
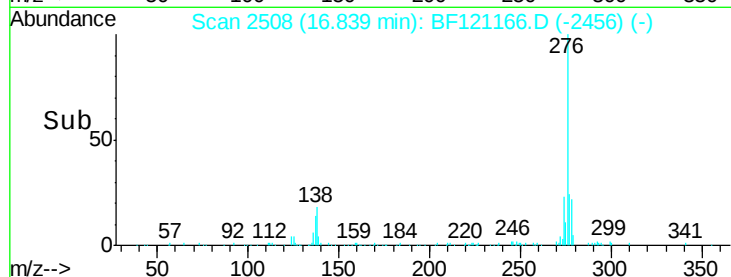
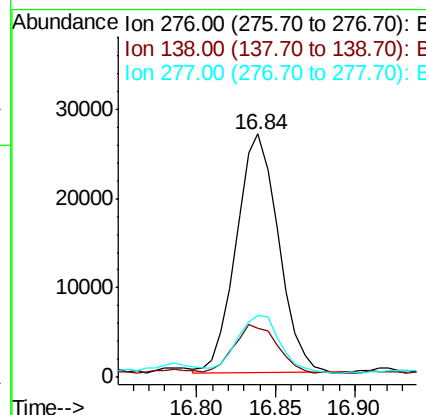
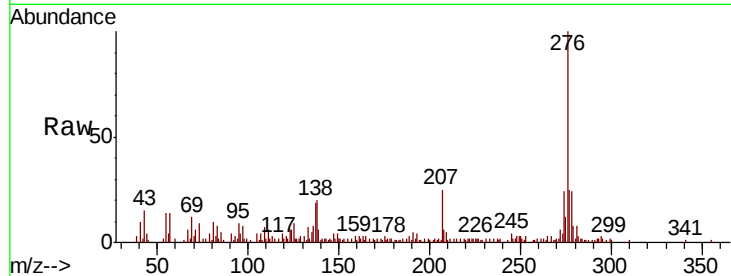
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.130 ng
 RT: 16.84 min Scan# 2508
 Delta R.T. 0.01 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.3	28.9
277	25.0	20.1	30.1

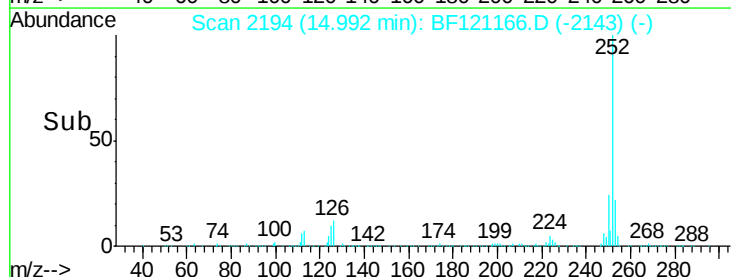
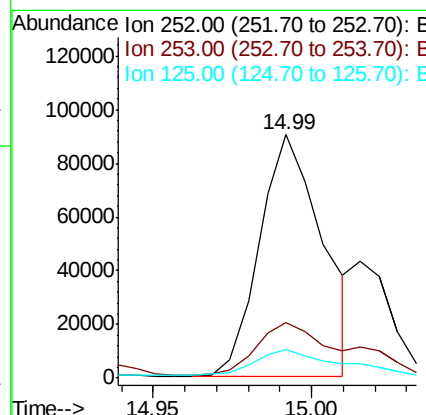
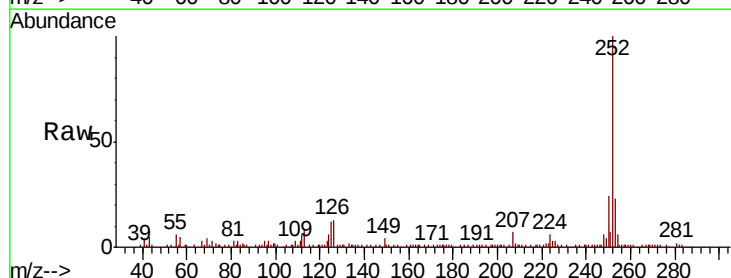
Manual Integrations
 APPROVED

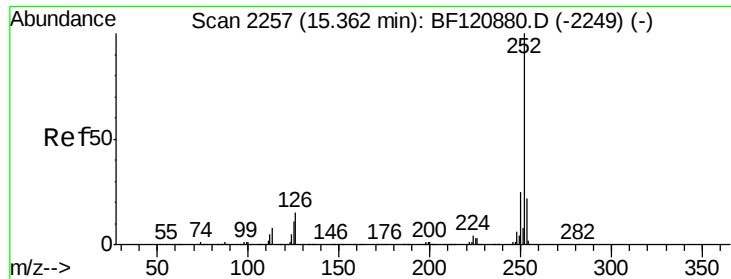
mohammad
 8/3/2020 12:22:58 PM



#88
 Benzo(b)fluoranthene
 Concen: 6.206 ng m
 RT: 14.99 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: BF121166.D
 Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	11.5	8.1	12.1





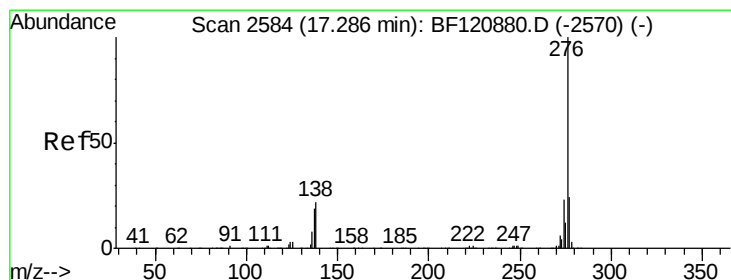
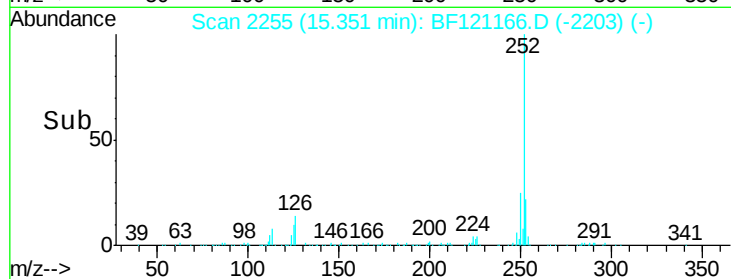
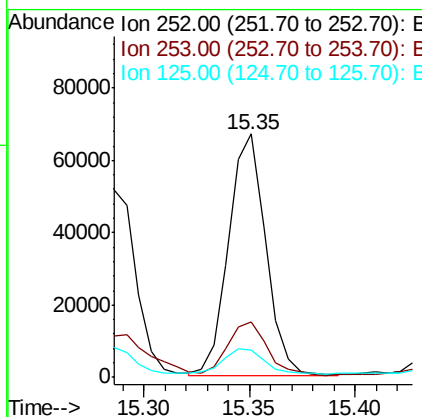
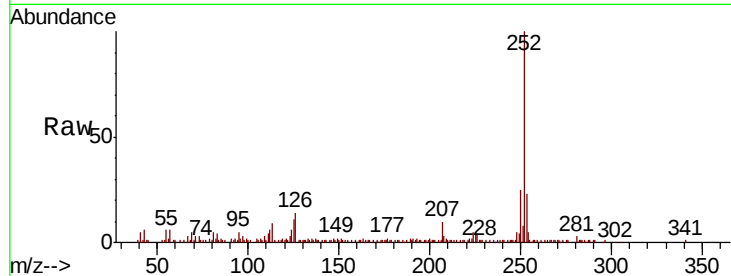
#90
Benzo(a)pyrene
Concen: 4.419 ng
RT: 15.35 min Scan# 2255
Delta R.T. 0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-72-12012

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	11.3	9.5	14.3

Manual Integrations
APPROVED

mohammad
8/3/2020 12:22:58 PM



#92
Benzo(g,h,i)perylene
Concen: 2.884 ng
RT: 17.27 min Scan# 2581
Delta R.T. 0.01 min
Lab File: BF121166.D
Acq: 31 Jul 2020 19:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.4	29.0
138	21.4	17.2	25.8

