

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031722\
 Data File : BF127388.D
 Acq On : 17 Mar 2022 21:08
 Operator : CG\JU
 Sample : N1981-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-3-031622

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/18/2022
 Supervised By : Jagrut Upadhyay 03/18/2022

Quant Time: Mar 18 04:40:55 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 10 16:51:53 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	80818	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	256094	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	132950	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	232195	20.000	ng	# 0.00
76) Chrysene-d12	14.051	240	146178	20.000	ng	# 0.00
86) Perylene-d12	15.539	264	111028	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	85206	16.948	ng	0.00
7) Phenol-d6	6.498	99	107962	15.611	ng	0.00
23) Nitrobenzene-d5	7.428	82	66460	10.717	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	19203	13.417	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	114025	12.125	ng	-0.01
79) Terphenyl-d14	12.986	244	112867	13.296	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.175	128	285788	20.920	ng	99
37) 2-Methylnaphthalene	8.863	142	99691	11.168	ng	96
38) 1-Methylnaphthalene	8.963	142	73441	8.558	ng	96
46) 1,1'-Biphenyl	9.328	154	22290	2.221	ng	96
52) Acenaphthene	9.939	154	119379	16.754	ng	93
55) Dibenzofuran	10.116	168	106334	9.606	ng	94
58) Fluorene	10.457	166	159139	18.540	ng	98
71) Phenanthrene	11.427	178	835332	68.150	ng	99
72) Anthracene	11.480	178	261105	21.510	ng	100
73) Carbazole	11.633	167	128437	11.236	ng	99
75) Fluoranthene	12.621	202	971842	70.911	ng	94
78) Pyrene	12.851	202	766994	67.364	ng	99
81) Benzo(a)anthracene	14.039	228	329307	33.458	ng	98
83) Chrysene	14.074	228	265269	28.976	ng	97
87) Indeno(1,2,3-cd)pyrene	17.051	276	88374	13.213	ng	# 82
88) Benzo(b)fluoranthene	15.104	252	272022m	37.326	ng	
89) Benzo(k)fluoranthene	15.127	252	85507m	12.478	ng	
90) Benzo(a)pyrene	15.480	252	187444m	32.662	ng	
91) Dibenzo(a,h)anthracene	17.056	278	25241	4.534	ng	# 88
92) Benzo(g,h,i)perylene	17.509	276	79315	14.607	ng	# 87

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

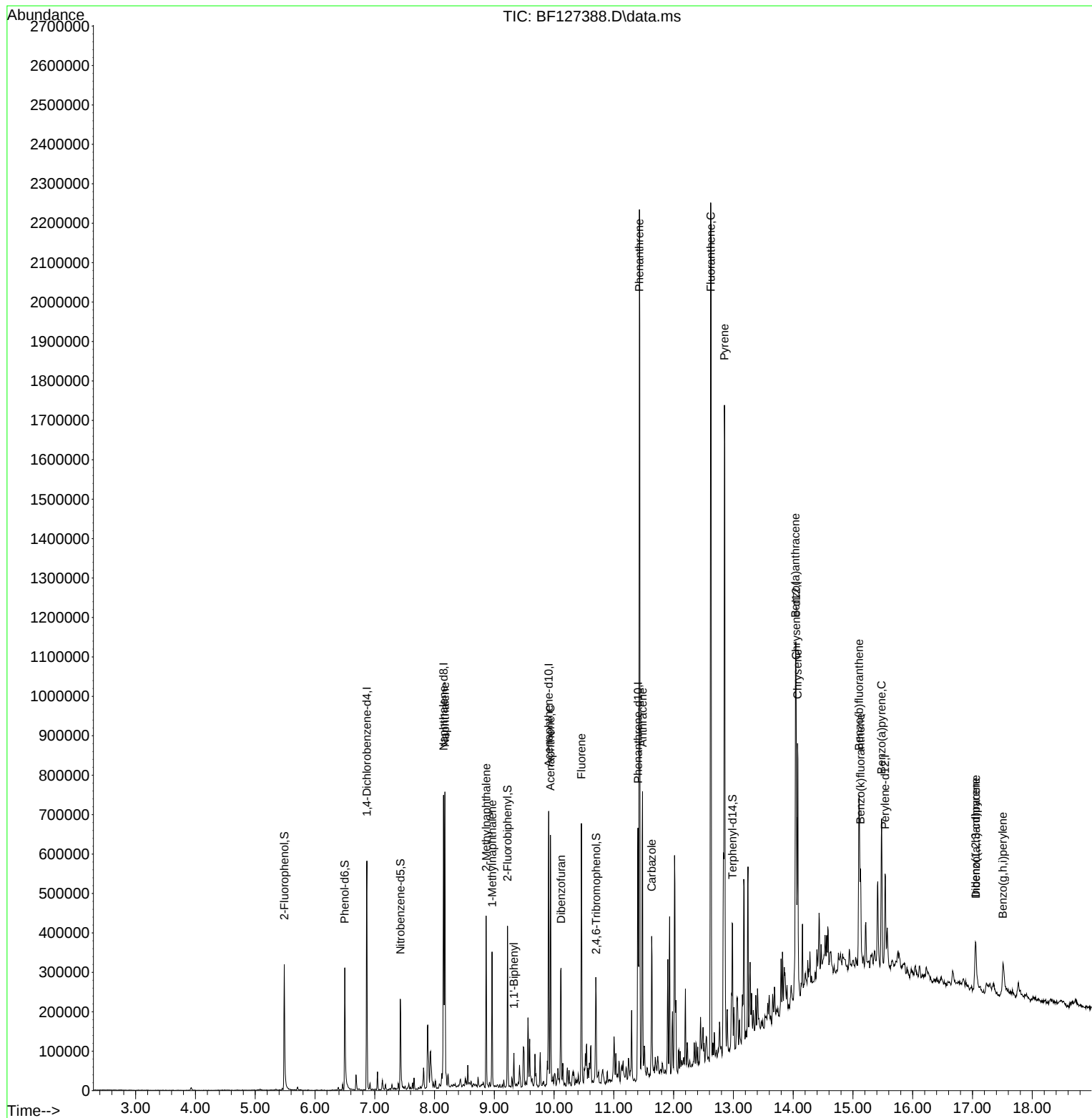
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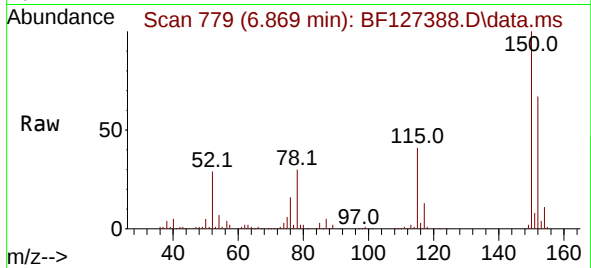
Reviewed By : Christian Giraldo 03/18/2022
Supervised By : Jagrut Upadhyay 03/18/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

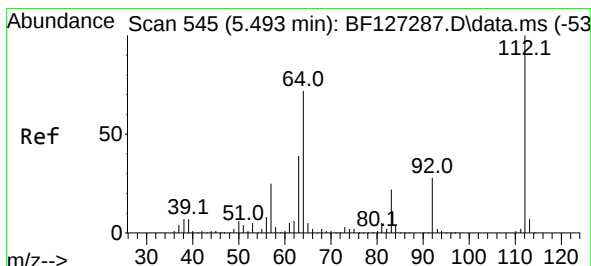
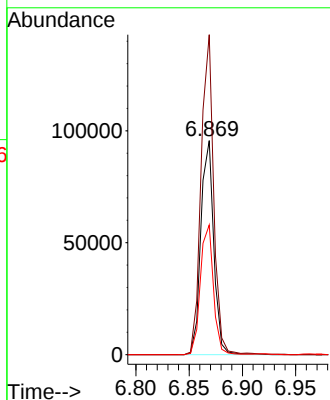
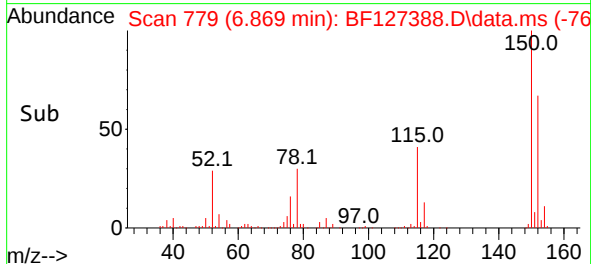
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BNA_F
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OR-3-031622



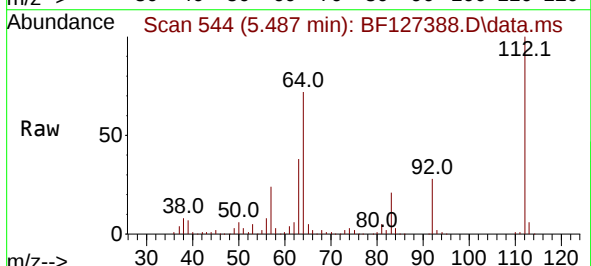
Tgt Ion:152 Resp: 80818
Ion Ratio Lower Upper
152 100
150 149.5 128.1 192.1
115 60.6 56.7 85.1

Manual Integrations
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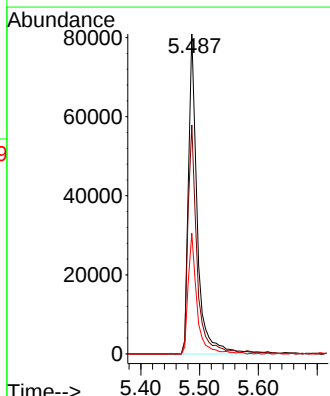
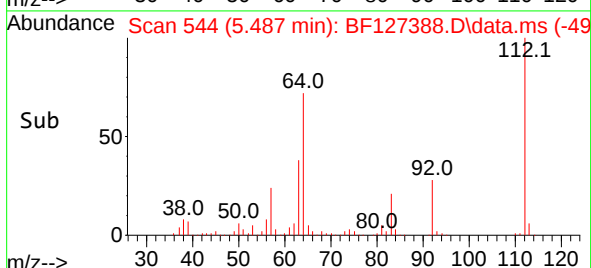
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022

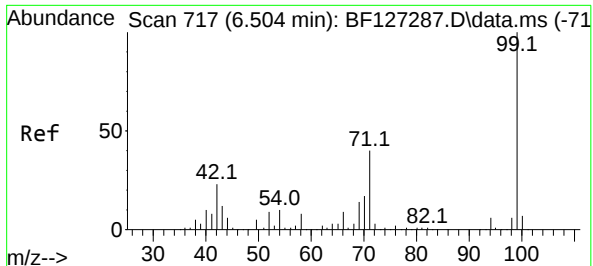


#5
2-Fluorophenol
Concen: 16.948 ng
RT: 5.487 min Scan# 544
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08



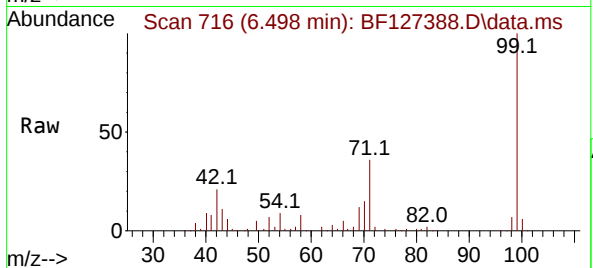
Tgt Ion:112 Resp: 85206
Ion Ratio Lower Upper
112 100
64 71.6 49.5 74.3
63 37.7 23.9 35.9#





#7
Phenol-d6
Concen: 15.611 ng
RT: 6.498 min Scan# 716
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

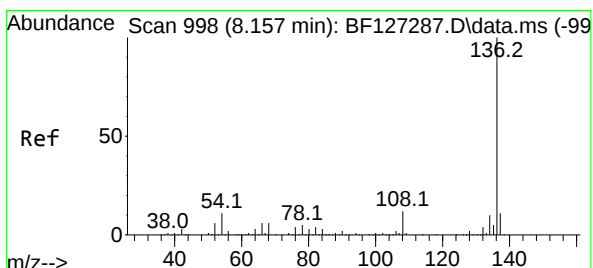
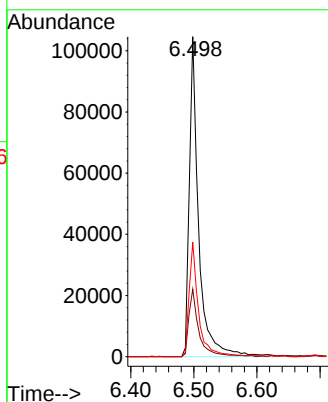
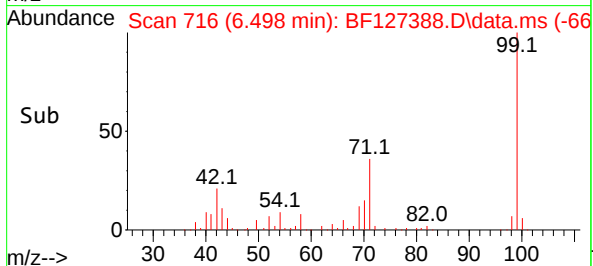
Instrument :
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OR-3-031622



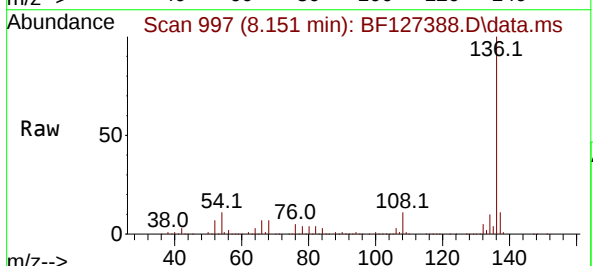
Tgt Ion: 99 Resp: 107962
Ion Ratio Lower Upper
99 100
42 21.1 14.2 21.4
71 35.8 24.3 36.5

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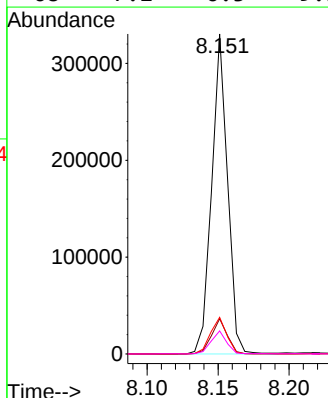
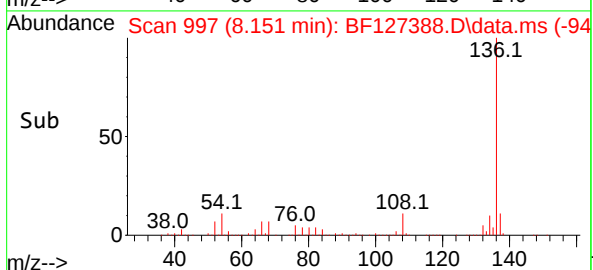
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022

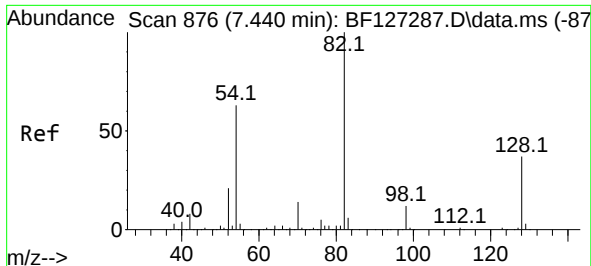


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 997
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08



Tgt Ion:136 Resp: 256094
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 11.4 7.8 11.6
68 7.2 6.3 9.5





#23
Nitrobenzene-d5
Concen: 10.717 ng
RT: 7.428 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

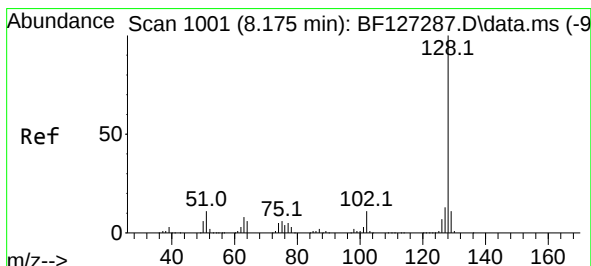
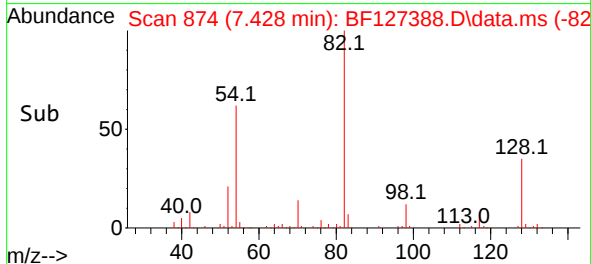
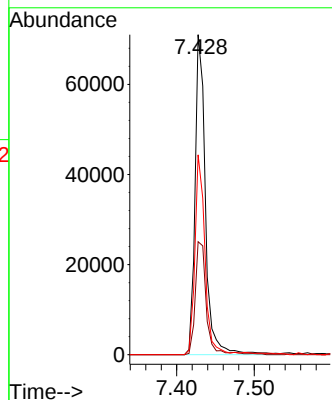
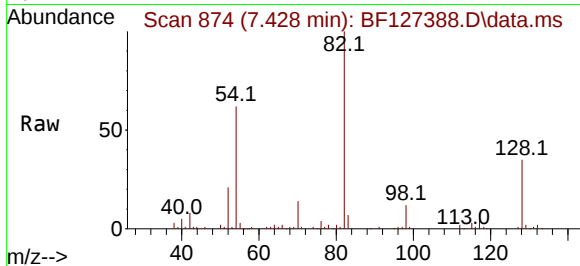
ClientSampleId :

OR-3-031622

Tgt Ion: 82 Resp: 66460
Ion Ratio Lower Upper
82 100
128 35.3 32.7 49.1
54 62.4 41.7 62.5

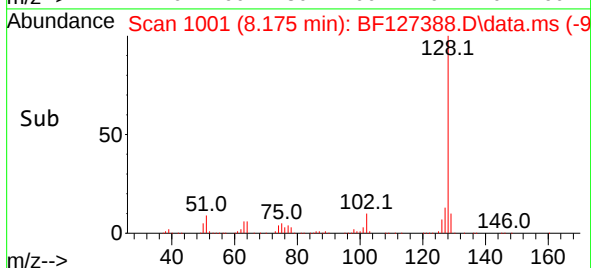
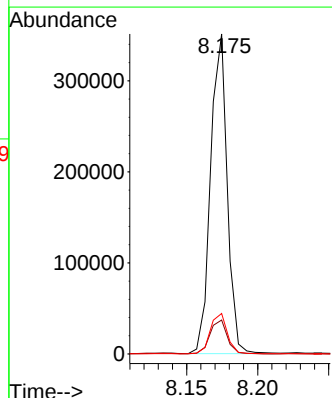
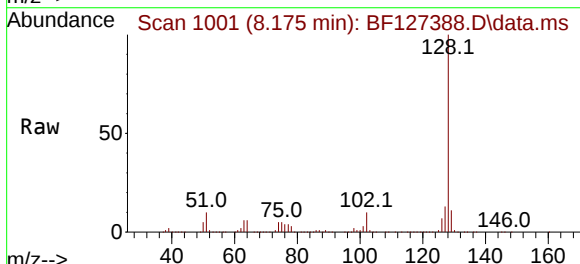
Manual Integrations
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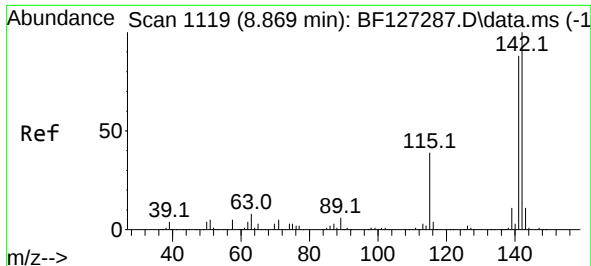
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022



#31
Naphthalene
Concen: 20.920 ng
RT: 8.175 min Scan# 1001
Delta R.T. -0.000 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Tgt Ion:128 Resp: 285788
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 12.7 10.3 15.5





#37

2-Methylnaphthalene

Concen: 11.168 ng

RT: 8.863 min Scan# 1118

Delta R.T. -0.006 min

Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

Tgt Ion:142 Resp: 9969

Ion Ratio Lower Upper

142 100

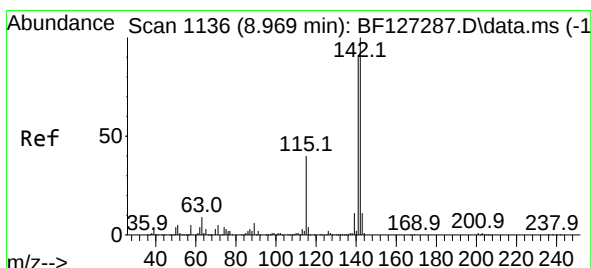
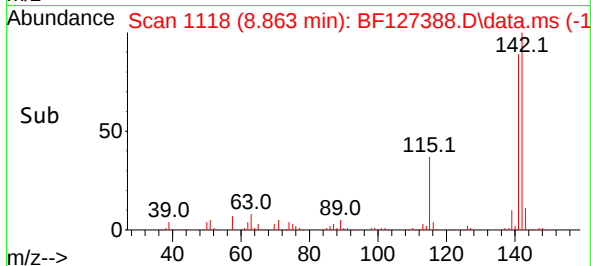
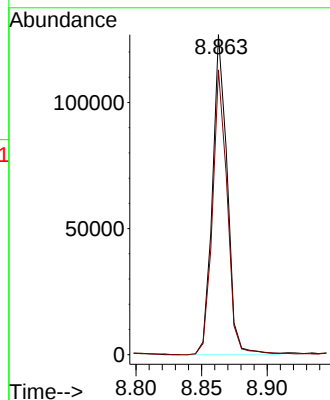
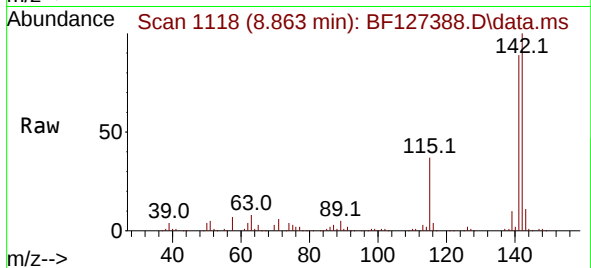
141 89.0 68.6 102.8

Manual Integrations

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Reviewed By :Christian Giraldo 03/18/2022

Supervised By :Jagrut Upadhyay 03/18/2022



#38

1-Methylnaphthalene

Concen: 8.558 ng

RT: 8.963 min Scan# 1135

Delta R.T. -0.006 min

Lab File: BF127388.D

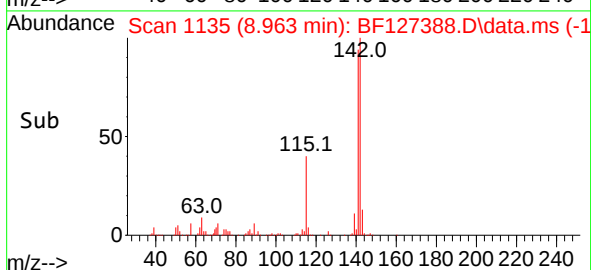
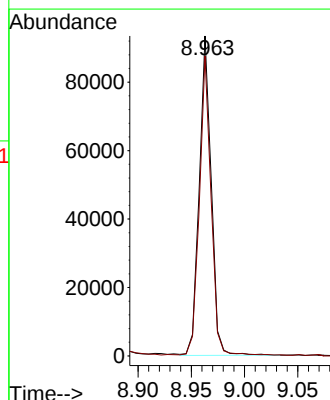
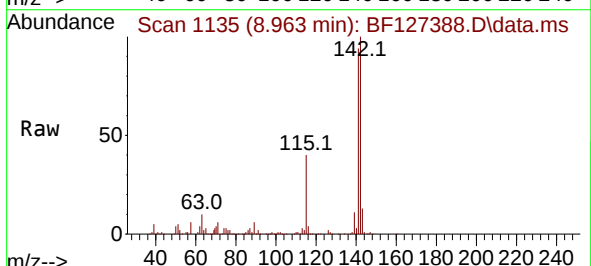
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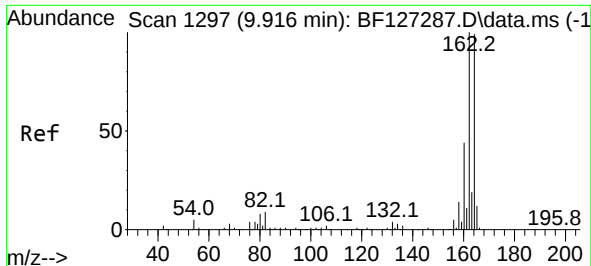
Tgt Ion:142 Resp: 73441

Ion Ratio Lower Upper

142 100

141 93.8 72.1 108.1





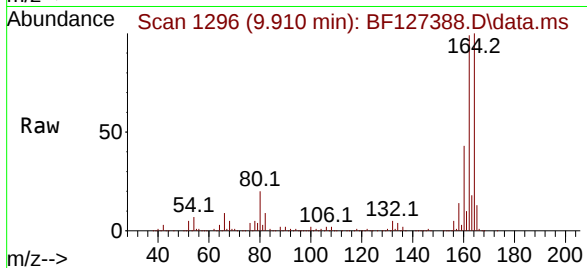
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

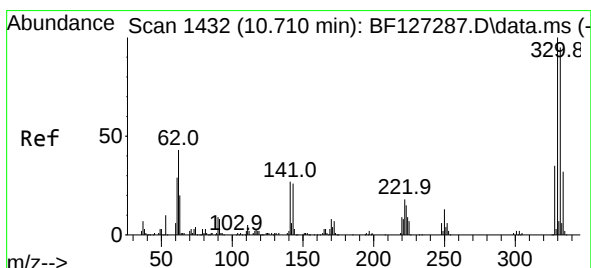
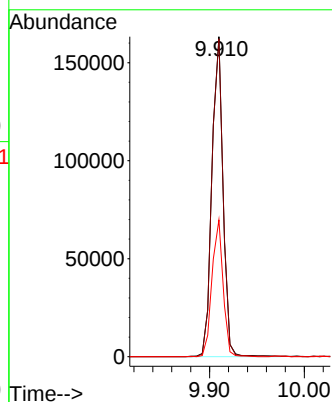
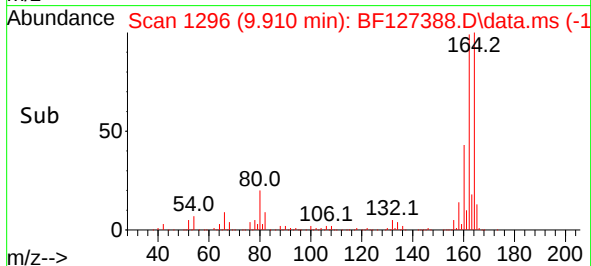


Tgt Ion:164 Resp: 132950
Ion Ratio Lower Upper
164 100
162 99.3 81.4 122.0
160 42.8 36.6 54.8

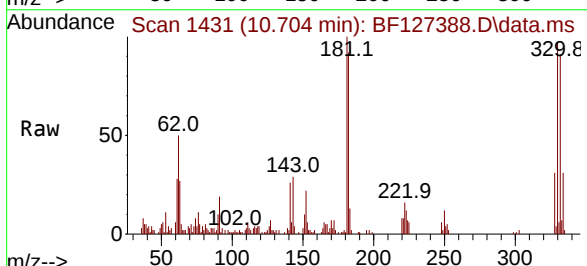
Manual Integrations

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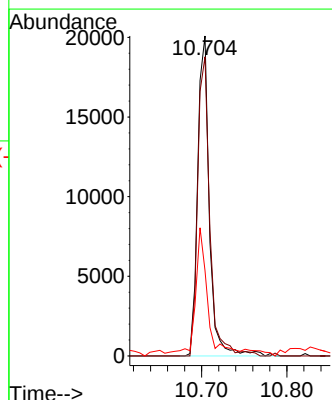
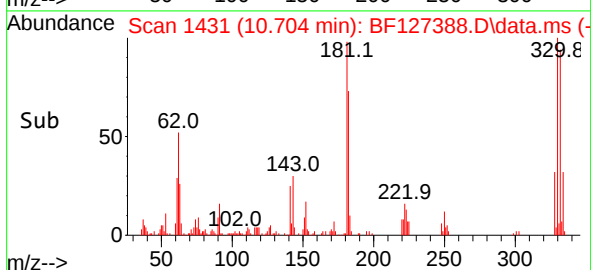
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022

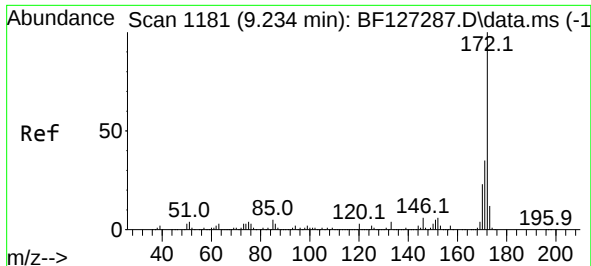


#42
2,4,6-Tribromophenol
Concen: 13.417 ng
RT: 10.704 min Scan# 1431
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08



Tgt Ion:330 Resp: 19203
Ion Ratio Lower Upper
330 100
332 95.8 76.0 114.0
141 35.5 30.1 45.1





#45
2-Fluorobiphenyl
Concen: 12.125 ng
RT: 9.222 min Scan# 1119
Delta R.T. -0.012 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

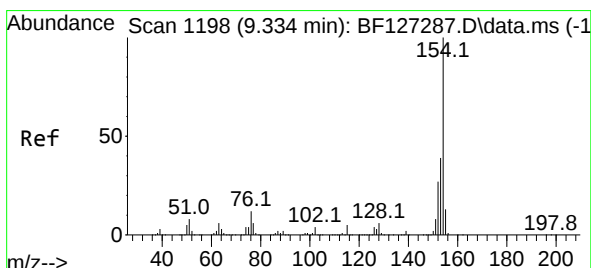
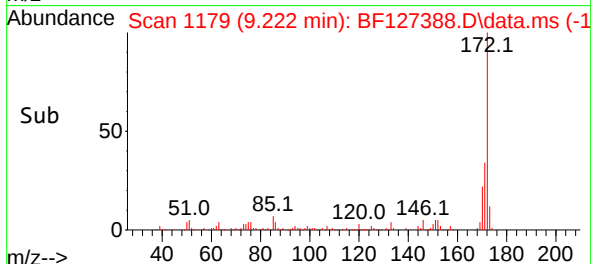
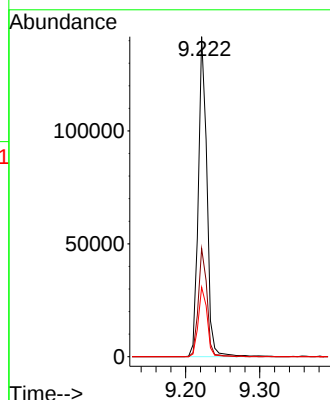
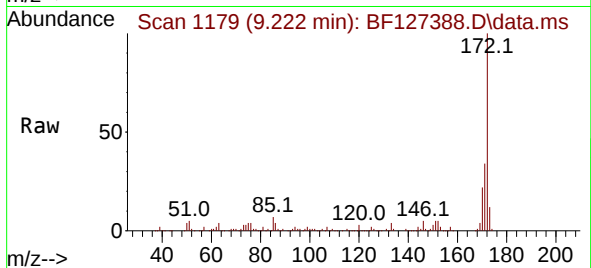
OR-3-031622

Tgt Ion:172 Resp: 114025
Ion Ratio Lower Upper
172 100
171 33.8 28.3 42.5
170 21.7 19.0 28.6

Manual Integrations

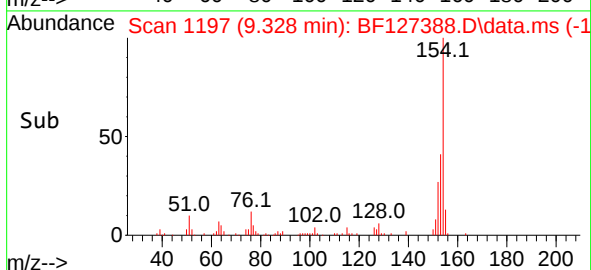
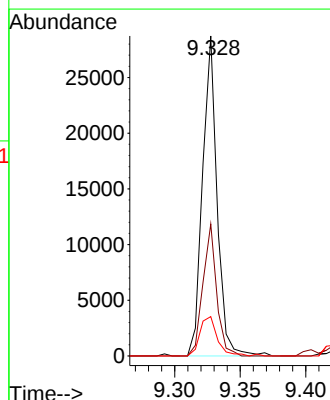
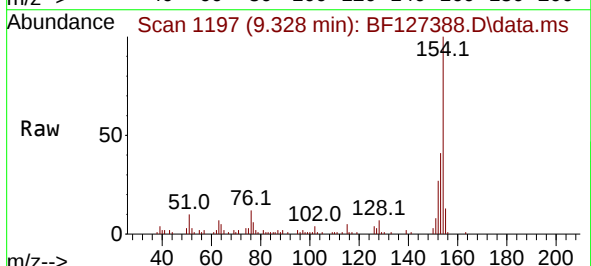
APPROVED

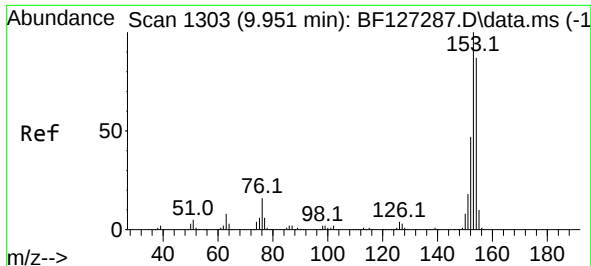
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022



#46
1,1'-Biphenyl
Concen: 2.221 ng
RT: 9.328 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

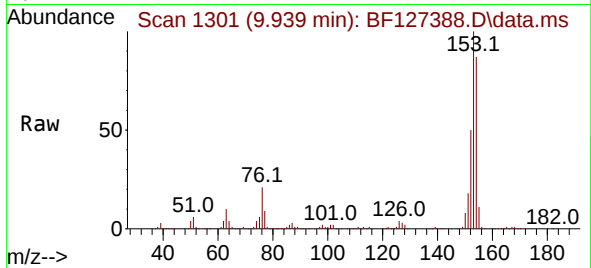
Tgt Ion:154 Resp: 22290
Ion Ratio Lower Upper
154 100
153 41.3 19.0 59.0
76 12.3 0.0 34.5





#52
Acenaphthene
Concen: 16.754 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

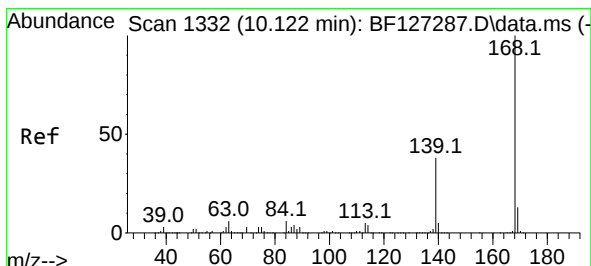
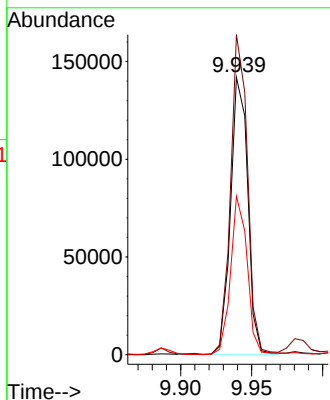
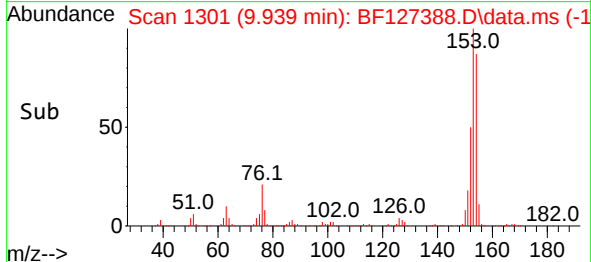
Instrument :
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OR-3-031622



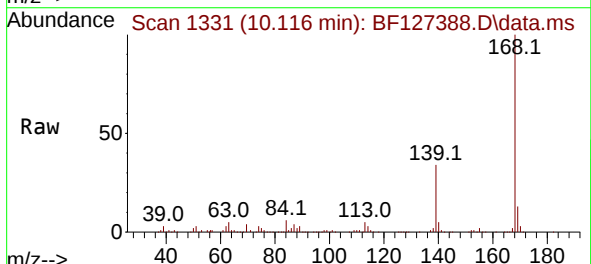
Tgt Ion:154 Resp: 119379
Ion Ratio Lower Upper
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153 115.4 87.8 131.6
152 57.2 39.4 59.2

Manual Integrations
APPROVED

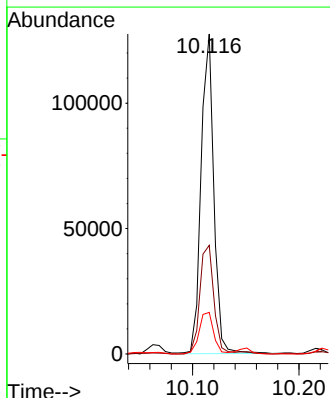
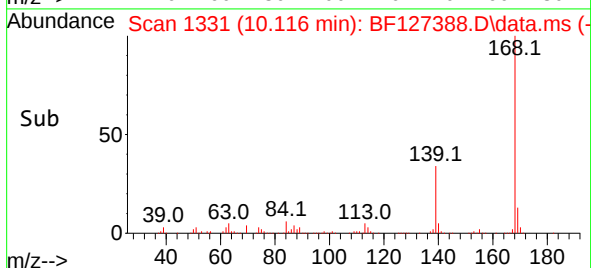
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022

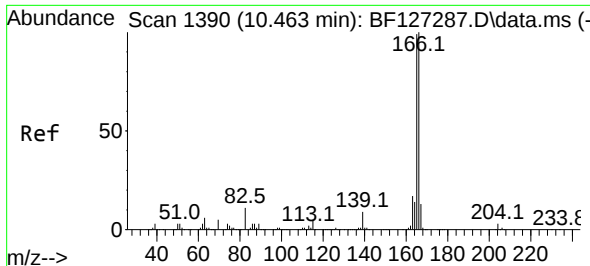


#55
Dibenzofuran
Concen: 9.606 ng
RT: 10.116 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08



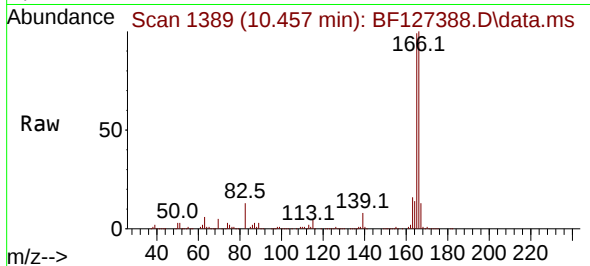
Tgt Ion:168 Resp: 106334
Ion Ratio Lower Upper
168 100
139 34.0 30.6 46.0
169 13.0 10.0 15.0





#58
Fluorene
Concen: 18.540 ng
RT: 10.457 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

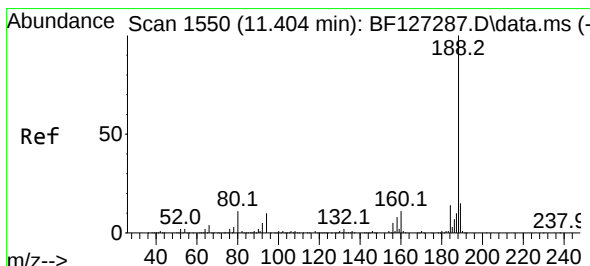
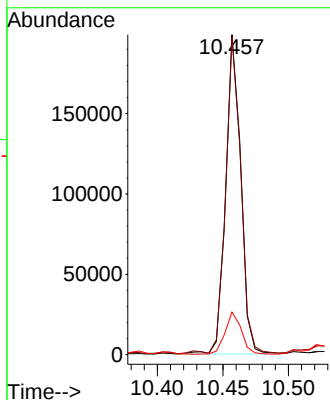
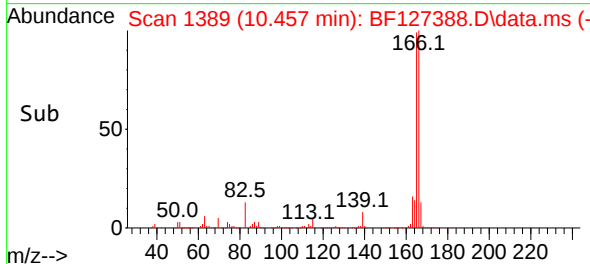
Instrument :
BNA_F
ClientSampleId :
OR-3-031622



Tgt Ion:166 Resp: 159139
Ion Ratio Lower Upper
166 100
165 99.4 77.7 116.5
167 13.3 10.7 16.1

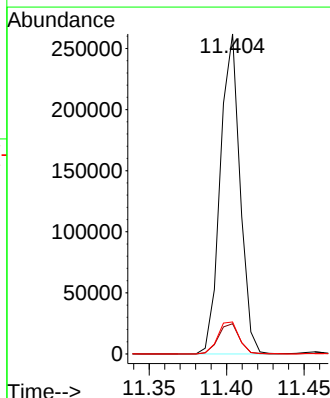
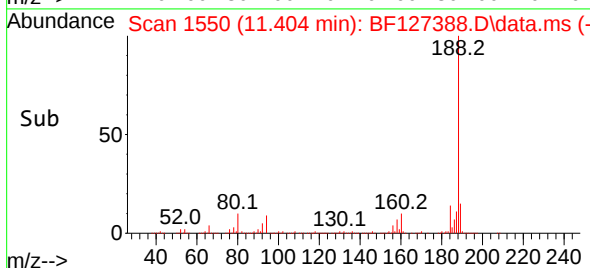
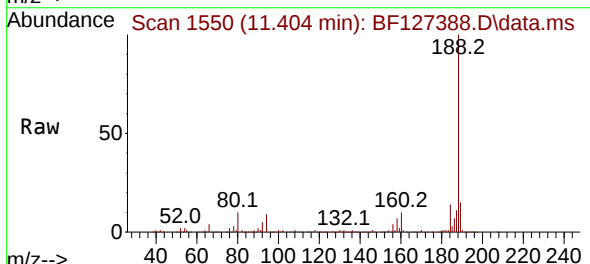
Manual Integrations
APPROVED

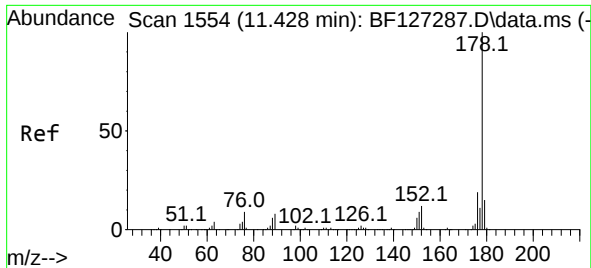
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

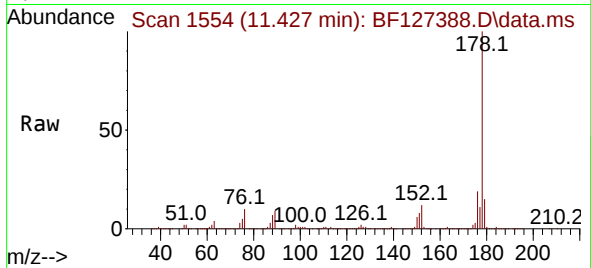
Tgt Ion:188 Resp: 232195
Ion Ratio Lower Upper
188 100
94 9.4 10.1 15.1#
80 10.0 11.8 17.6#





#71
Phenanthrene
Concen: 68.150 ng
RT: 11.427 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

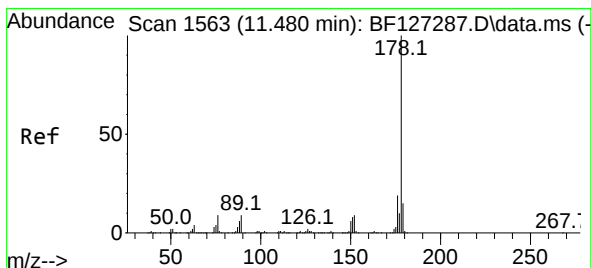
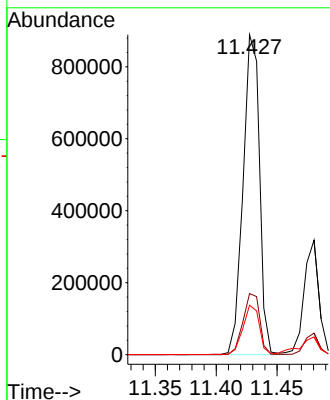
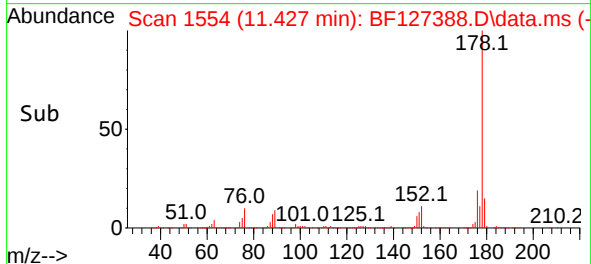
Instrument :
BNA_F
ClientSampleId :
OR-3-031622



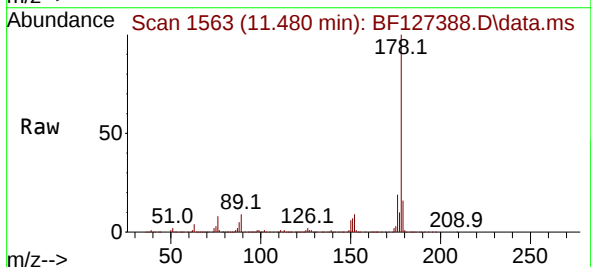
Tgt Ion:178 Resp: 835332
Ion Ratio Lower Upper
178 100
176 19.1 15.7 23.5
179 15.5 12.3 18.5

Manual Integrations
APPROVED

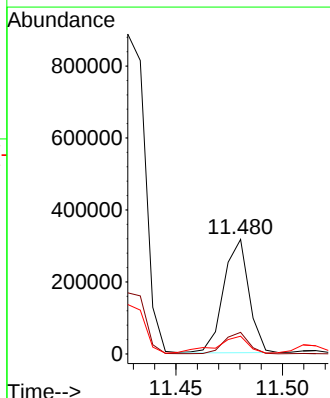
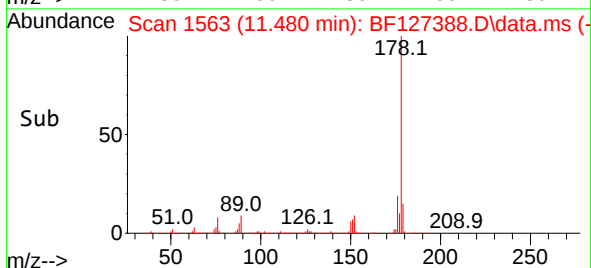
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022

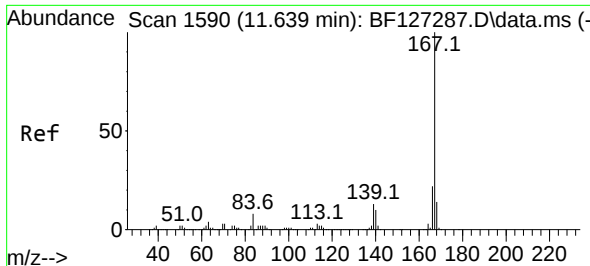


#72
Anthracene
Concen: 21.510 ng
RT: 11.480 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08



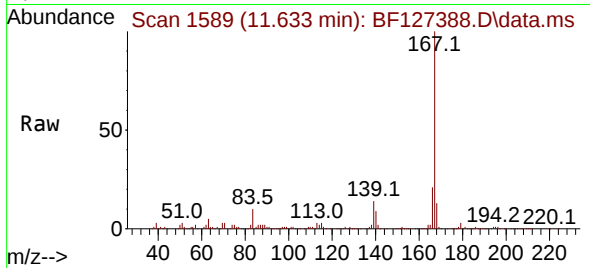
Tgt Ion:178 Resp: 261105
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.5 12.5 18.7





#73
 Carbazole
 Concen: 11.236 ng
 RT: 11.633 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF127388.D
 Acq: 17 Mar 2022 21:08

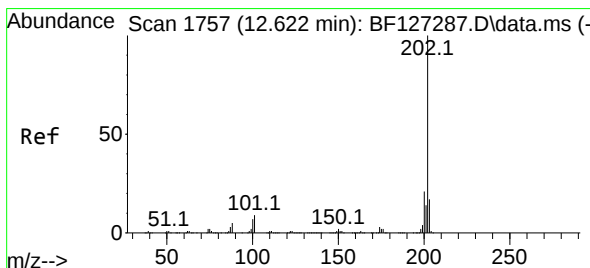
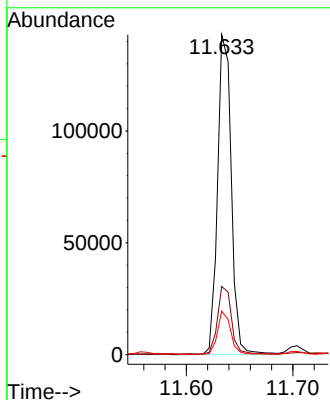
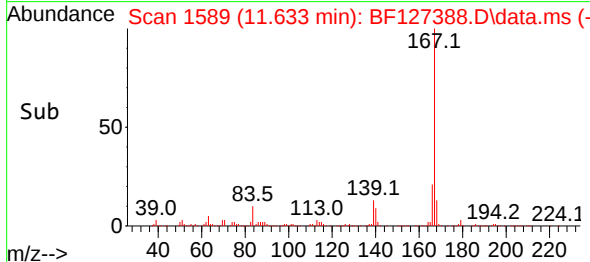
Instrument :
 BNA_F
 ClientSampleId :
 OR-3-031622



Tgt Ion:167 Resp: 12843
 Ion Ratio Lower Upper
 167 100
 166 21.3 16.9 25.3
 139 13.6 11.3 16.9

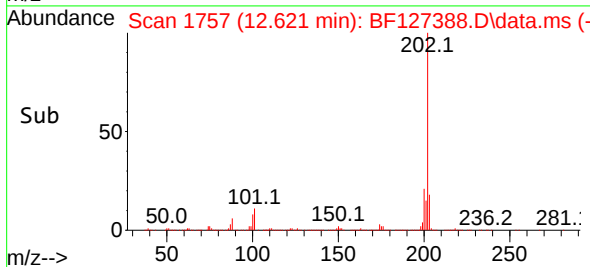
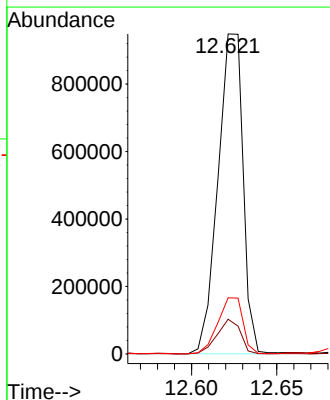
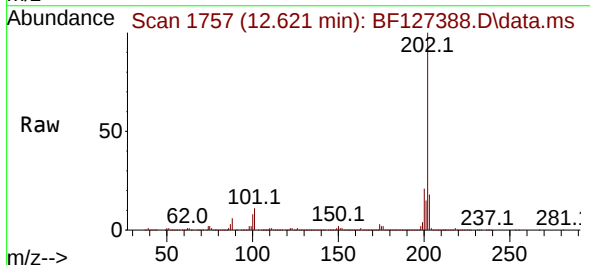
Manual Integrations
 APPROVED

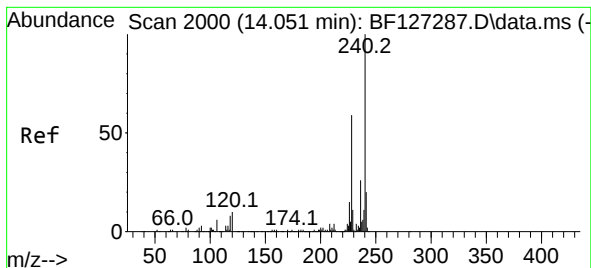
Reviewed By :Christian Giraldo 03/18/2022
 Supervised By :Jagrut Upadhyay 03/18/2022



#75
 Fluoranthene
 Concen: 70.911 ng
 RT: 12.621 min Scan# 1757
 Delta R.T. -0.000 min
 Lab File: BF127388.D
 Acq: 17 Mar 2022 21:08

Tgt Ion:202 Resp: 971842
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 35.7
 203 17.6 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2000

Delta R.T. -0.000 min

Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

Tgt Ion:240 Resp: 146178

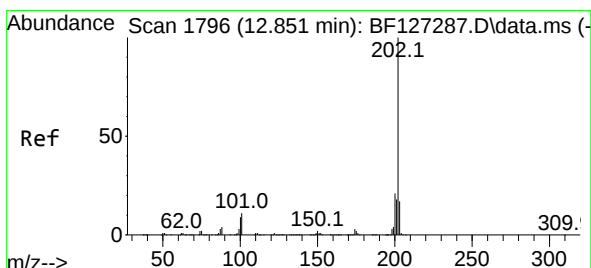
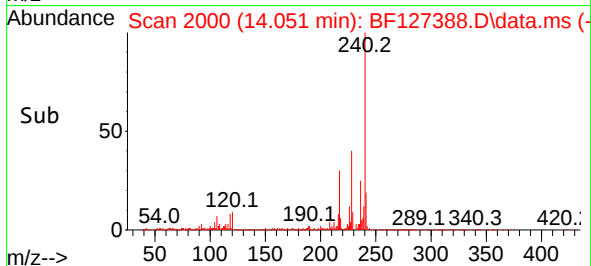
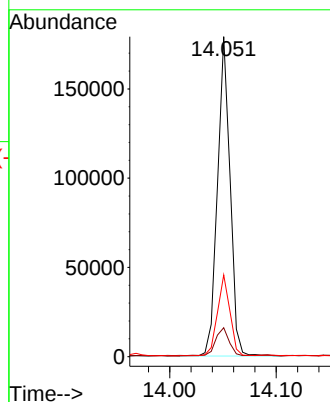
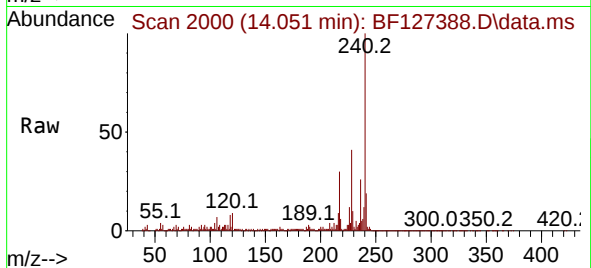
Ion	Ratio	Lower	Upper
240	100		
120	9.1	14.4	21.6
236	25.6	20.5	30.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/18/2022

Supervised By :Jagrut Upadhyay 03/18/2022



#78

Pyrene

Concen: 67.364 ng

RT: 12.851 min Scan# 1796

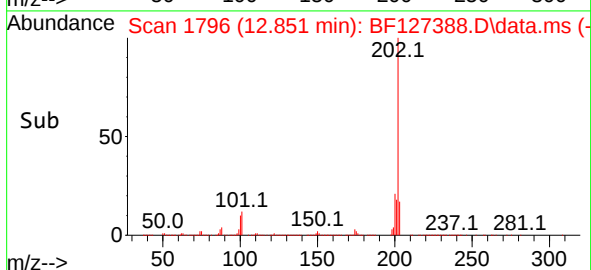
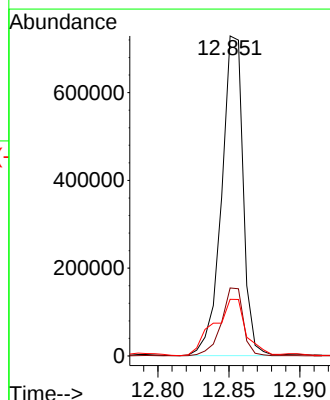
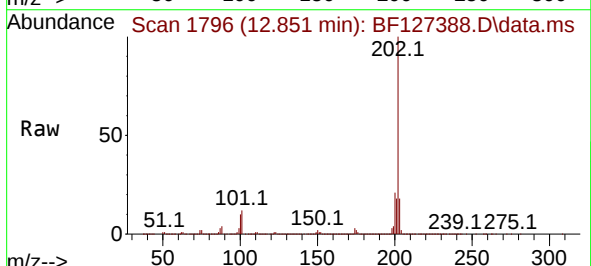
Delta R.T. -0.000 min

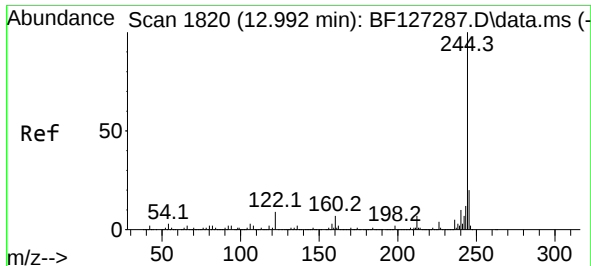
Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Tgt Ion:202 Resp: 766994

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.6	24.8
203	17.7	13.8	20.8





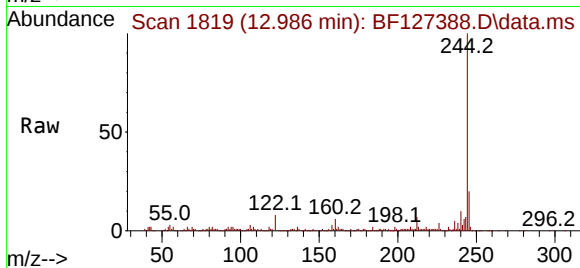
#79
 Terphenyl-d14
 Concen: 13.296 ng
 RT: 12.986 min Scan# 1820
 Delta R.T. -0.006 min
 Lab File: BF127388.D
 Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

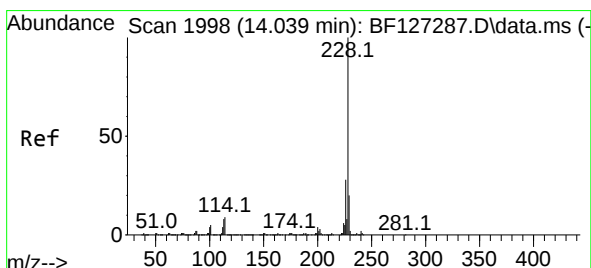
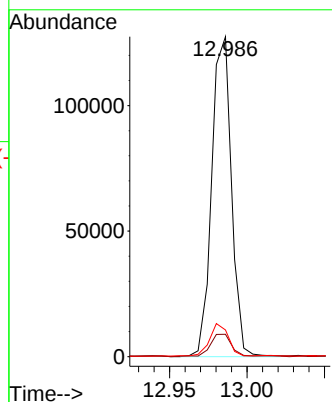
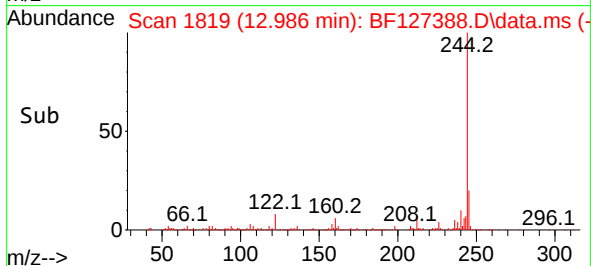


Tgt Ion:244 Resp: 11286
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.0 7.4
 122 8.3 13.3 19.9

Manual Integrations

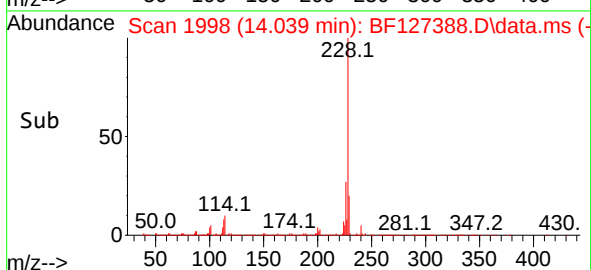
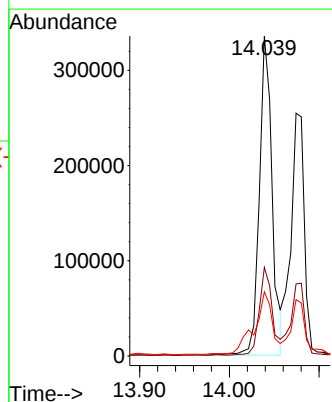
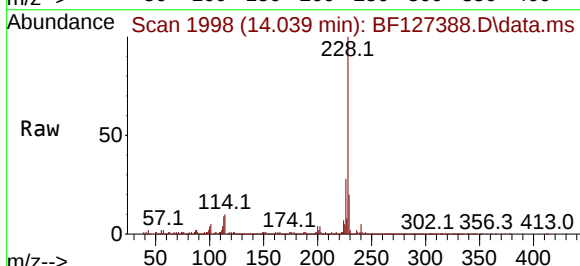
APPROVED

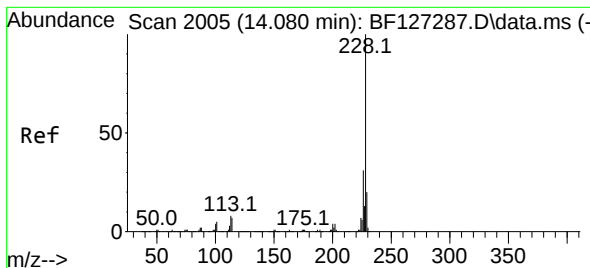
Reviewed By :Christian Giraldo 03/18/2022
 Supervised By :Jagrut Upadhyay 03/18/2022



#81
 Benzo(a)anthracene
 Concen: 33.458 ng
 RT: 14.039 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: BF127388.D
 Acq: 17 Mar 2022 21:08

Tgt Ion:228 Resp: 329307
 Ion Ratio Lower Upper
 228 100
 226 27.6 21.4 32.0
 229 20.0 15.4 23.2





#83

Chrysene

Concen: 28.976 ng

RT: 14.074 min Scan# 2004

Delta R.T. -0.006 min

Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

Tgt Ion:228 Resp: 265269

Ion Ratio Lower Upper

228 100

226 29.7 23.7 35.5

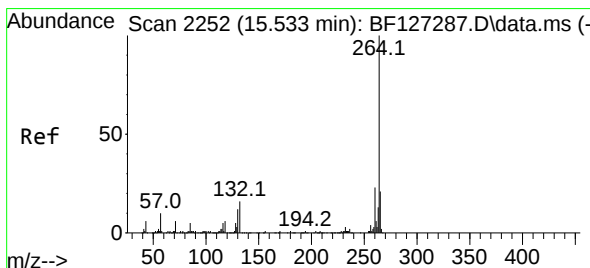
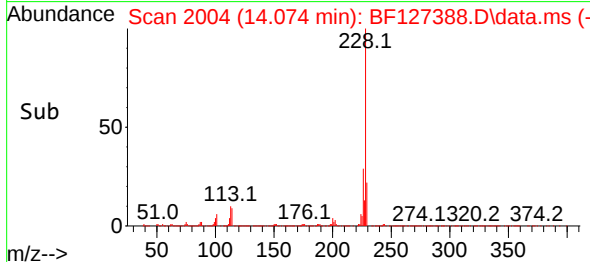
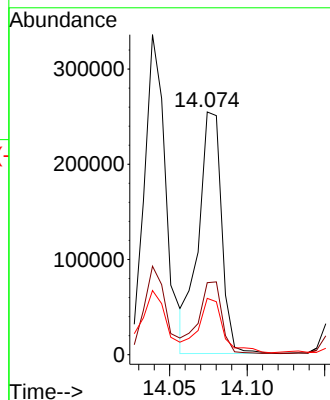
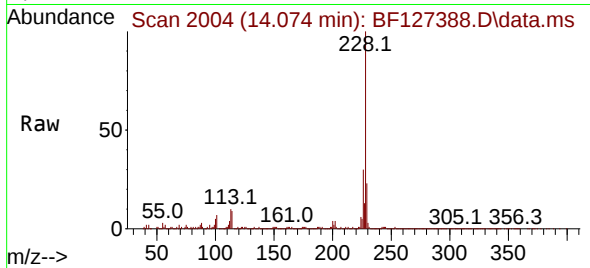
229 23.2 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/18/2022

Supervised By :Jagrut Upadhyay 03/18/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2253

Delta R.T. 0.006 min

Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

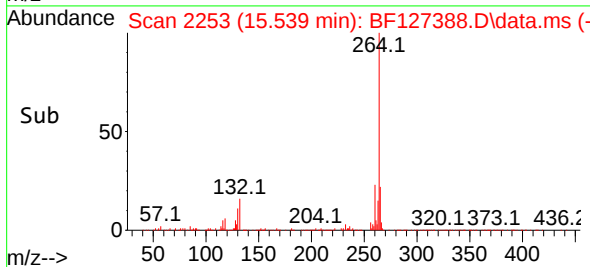
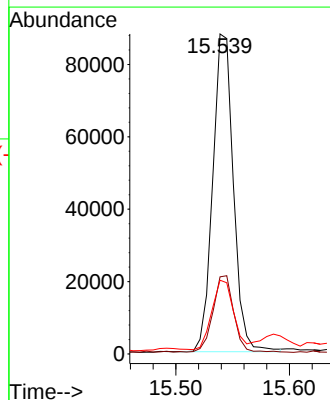
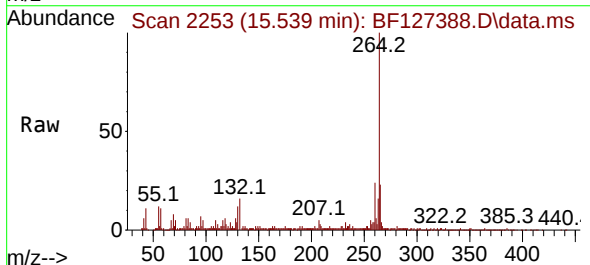
Tgt Ion:264 Resp: 111028

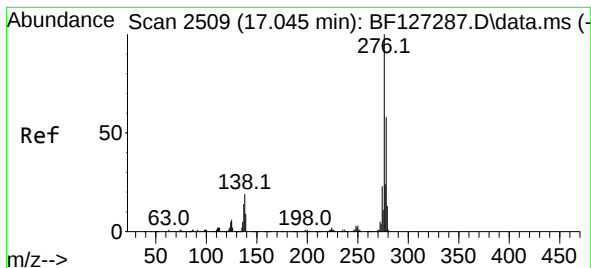
Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

265 23.1 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.213 ng

RT: 17.051 min Scan# 2179

Delta R.T. 0.006 min

Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

ClientSampleId :

OR-3-031622

Tgt Ion: 276 Resp: 88374

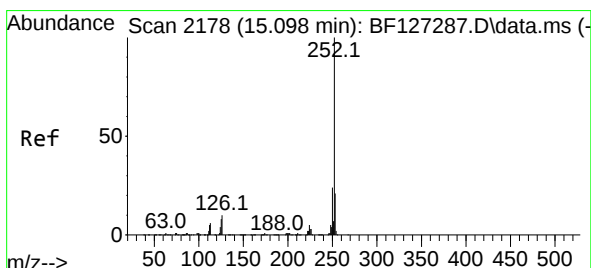
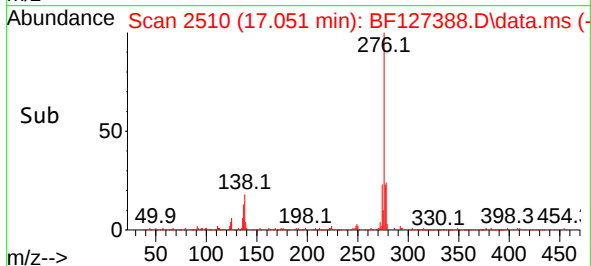
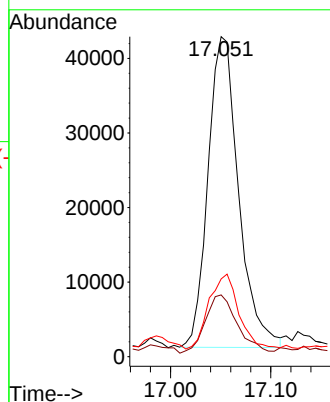
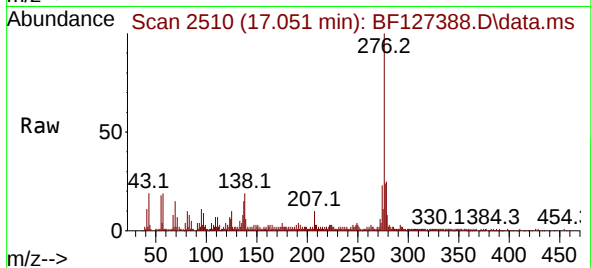
Ion	Ratio	Lower	Upper
276	100		
138	19.7	29.2	43.8
277	24.0	19.8	29.8

Manual Integrations

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Reviewed By : Christian Giraldo 03/18/2022

Supervised By : Jagrut Upadhyay 03/18/2022



#88

Benzo(b)fluoranthene

Concen: 37.326 ng m

RT: 15.104 min Scan# 2179

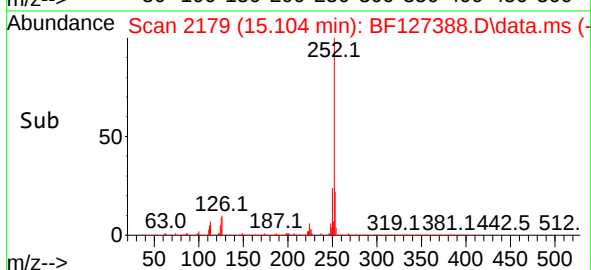
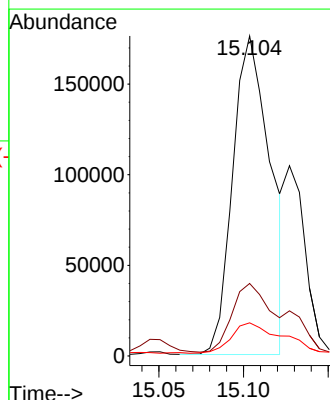
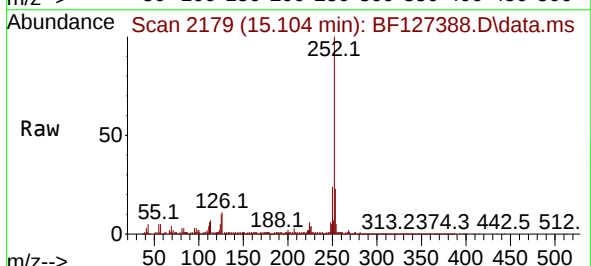
Delta R.T. 0.006 min

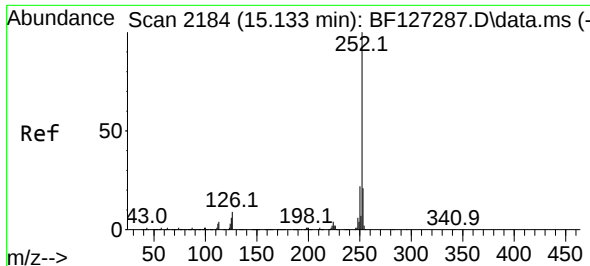
Lab File: BF127388.D

Acq: 17 Mar 2022 21:08

Tgt Ion: 252 Resp: 272022

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	10.3	12.4	18.6





#89
Benzo(k)fluoranthene
Concen: 12.478 ng m
RT: 15.127 min Scan# 2183
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

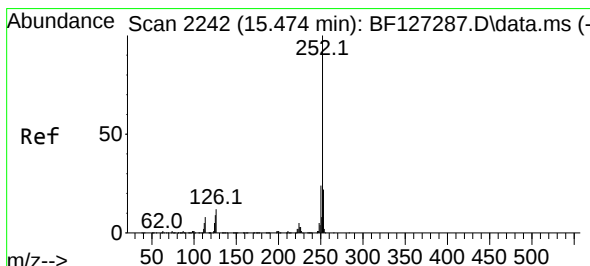
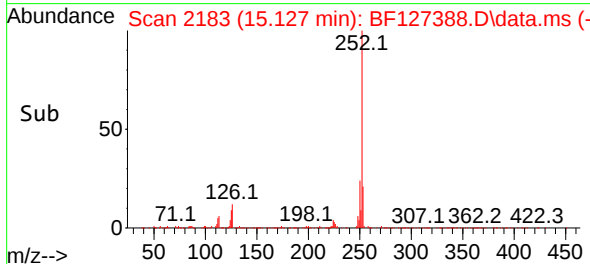
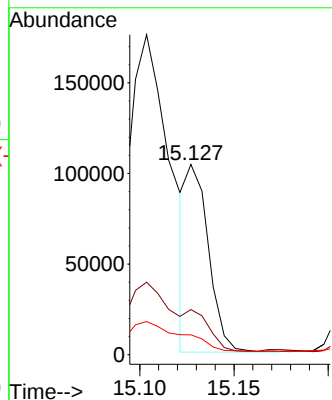
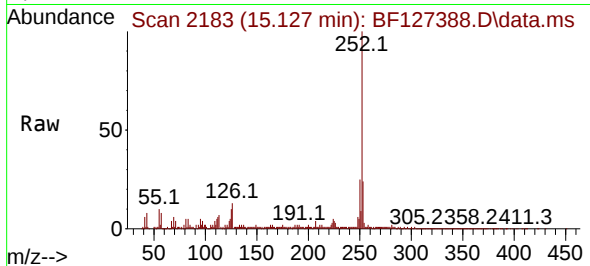
ClientSampleId :

OR-3-031622

Tgt Ion:252 Resp: 8550
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 10.4 11.8 17.6

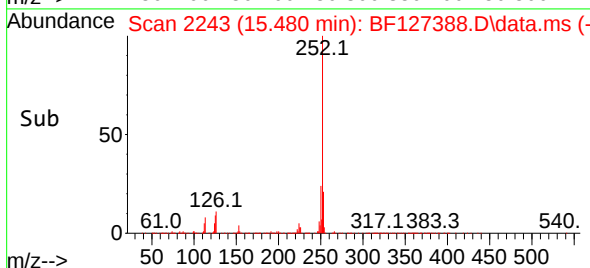
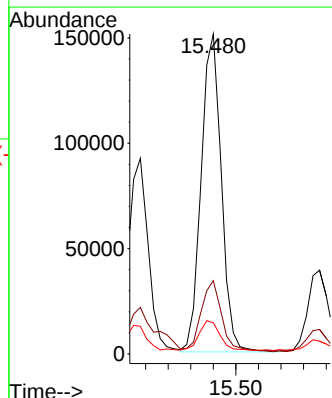
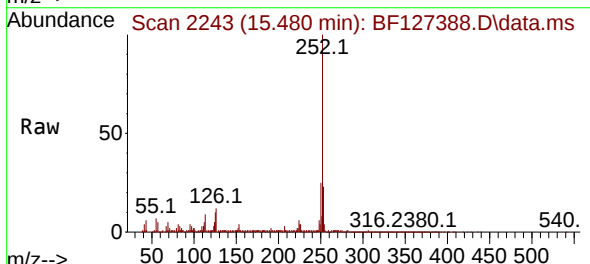
Manual Integrations
APPROVED

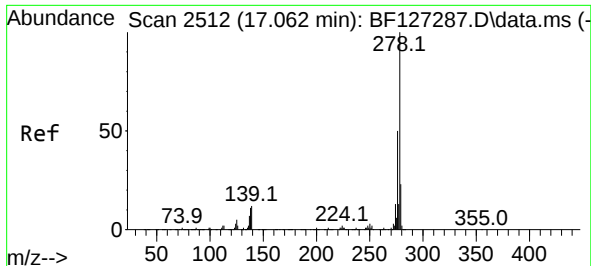
Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022



#90
Benzo(a)pyrene
Concen: 32.662 ng m
RT: 15.480 min Scan# 2243
Delta R.T. 0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Tgt Ion:252 Resp: 187444
Ion Ratio Lower Upper
252 100
253 22.9 17.1 25.7
125 9.7 13.0 19.6





#91
Dibenzo(a,h)anthracene
Concen: 4.534 ng
RT: 17.056 min Scan# 2511
Delta R.T. -0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Instrument :

BNA_F

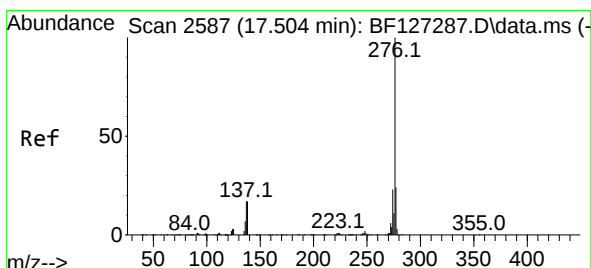
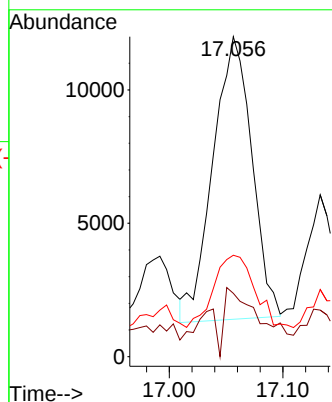
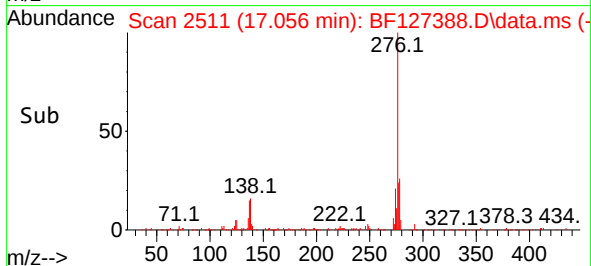
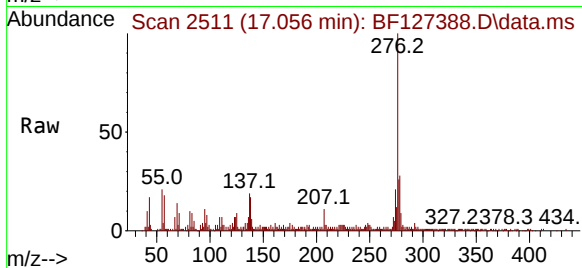
ClientSampleId :

OR-3-031622

Tgt Ion:278 Resp: 2524
Ion Ratio Lower Upper
278 100
139 19.8 18.0 27.0
279 31.7 18.6 27.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/18/2022
Supervised By :Jagrut Upadhyay 03/18/2022



#92
Benzo(g,h,i)perylene
Concen: 14.607 ng
RT: 17.509 min Scan# 2588
Delta R.T. 0.006 min
Lab File: BF127388.D
Acq: 17 Mar 2022 21:08

Tgt Ion:276 Resp: 79315
Ion Ratio Lower Upper
276 100
277 22.9 18.5 27.7
138 19.9 25.9 38.9

