

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042123\
 Data File : BF132985.D
 Acq On : 21 Apr 2023 23:42
 Operator : CG\JU
 Sample : 02389-23 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPB-6WC-23-04-17

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/24/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

Quant Time: Apr 22 04:32:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 22 03:30:56 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.751	152	207958	20.000	ng	0.00
21) Naphthalene-d8	8.034	136	792464	20.000	ng	0.00
39) Acenaphthene-d10	9.786	164	347238	20.000	ng	0.00
64) Phenanthrene-d10	11.275	188	524161	20.000	ng	0.00
76) Chrysene-d12	13.916	240	321056	20.000	ng	# 0.00
86) Perylene-d12	15.357	264	282169	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	591335	42.955	ng	0.00
7) Phenol-d6	6.387	99	709868	41.544	ng	0.00
23) Nitrobenzene-d5	7.310	82	396178	26.985	ng	-0.01
42) 2,4,6-Tribromophenol	10.581	330	116223	33.281	ng	0.00
45) 2-Fluorobiphenyl	9.110	172	740086	35.657	ng	0.00
79) Terphenyl-d14	12.863	244	558878	30.022	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.822	154	54301	2.518	ng	98
66) n-Nitrosodiphenylamine	10.445	169	39996	2.352	ng	96
71) Phenanthrene	11.298	178	661829	23.492	ng	100
72) Anthracene	11.345	178	161410	5.598	ng	99
73) Carbazole	11.498	167	87760	3.419	ng	# 94
75) Fluoranthene	12.486	202	985078	34.841	ng	99
78) Pyrene	12.716	202	877730	31.892	ng	98
81) Benzo(a)anthracene	13.910	228	409773	18.560	ng	96
83) Chrysene	13.945	228	413794	18.747	ng	96
84) Bis(2-ethylhexyl)phtha...	13.910	149	101887	8.330	ng	99
87) Indeno(1,2,3-cd)pyrene	16.745	276	191647	11.940	ng	99
88) Benzo(b)fluoranthene	14.945	252	502094m	27.970	ng	
89) Benzo(k)fluoranthene	14.968	252	105510m	5.929	ng	
90) Benzo(a)pyrene	15.292	252	286901	17.559	ng	# 89
91) Dibenzo(a,h)anthracene	16.757	278	51764	3.867	ng	# 74
92) Benzo(g,h,i)perylene	17.162	276	187578	14.193	ng	98

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

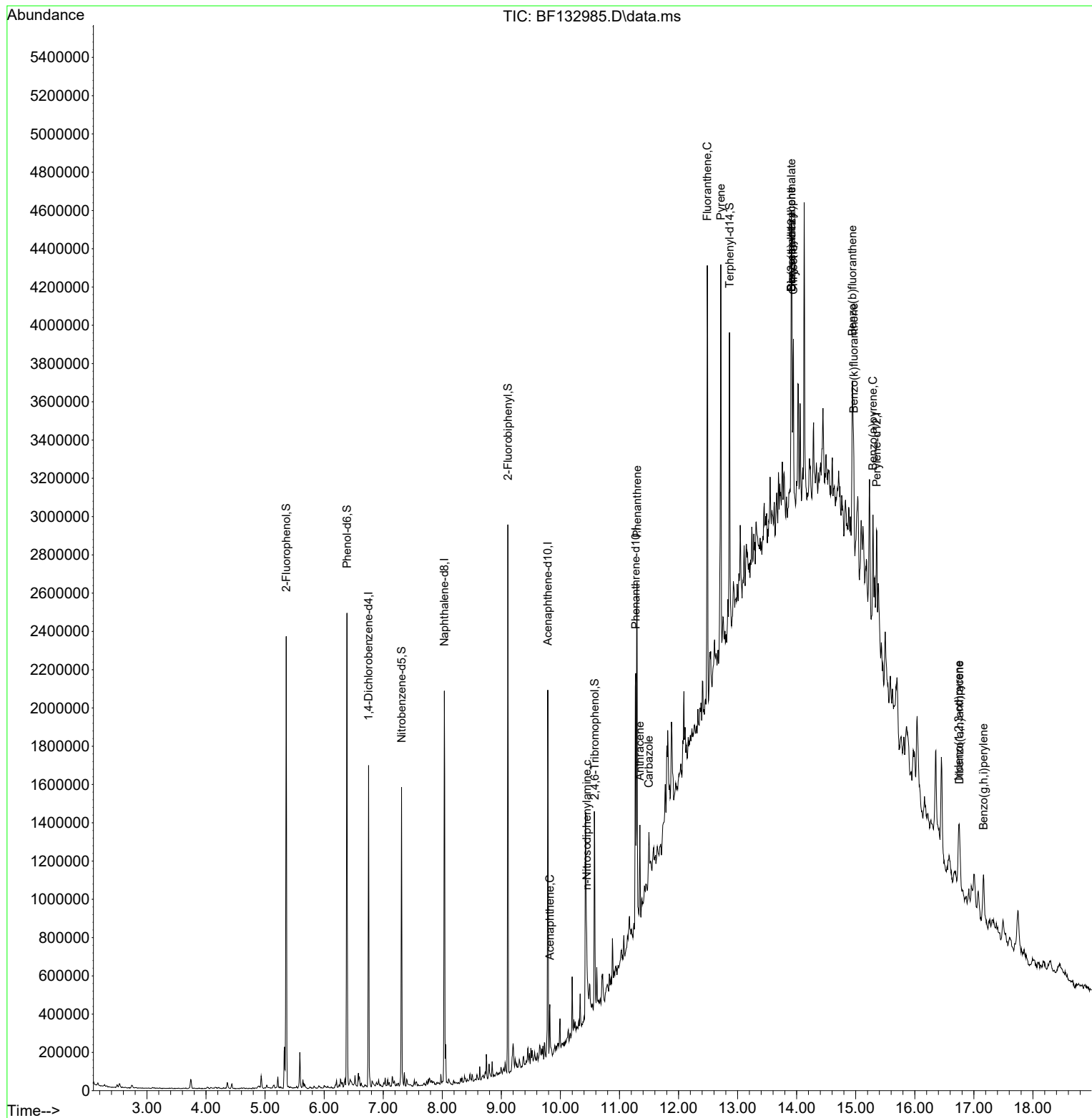
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042123\
Data File : BF132985.D
Acq On : 21 Apr 2023 23:42
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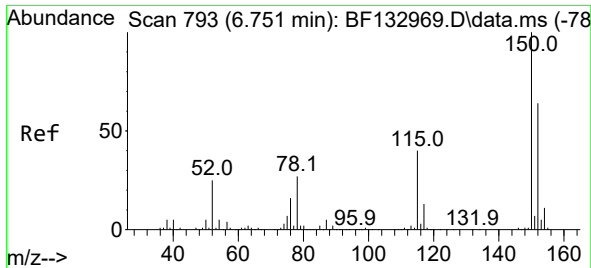
Instrument :
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Quant Time: Apr 22 04:32:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
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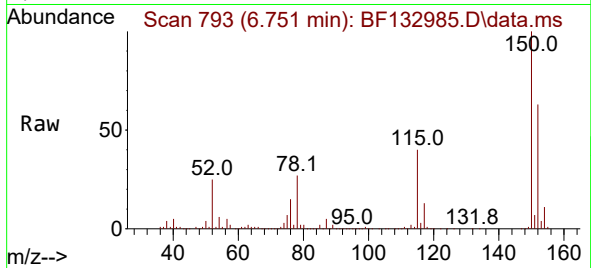
Reviewed By : Christian Giraldo 04/24/2023
Supervised By : Jagrut Upadhyay 04/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.751 min Scan# 793
Delta R.T. 0.000 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

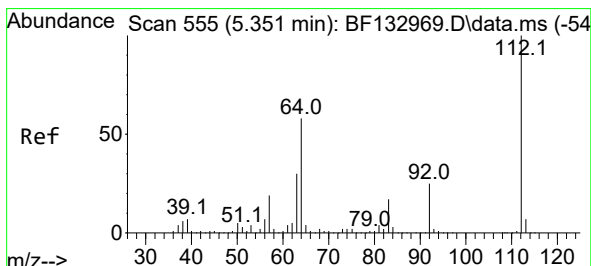
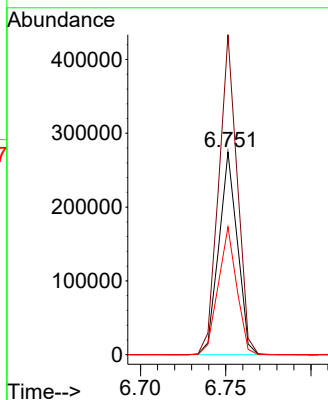
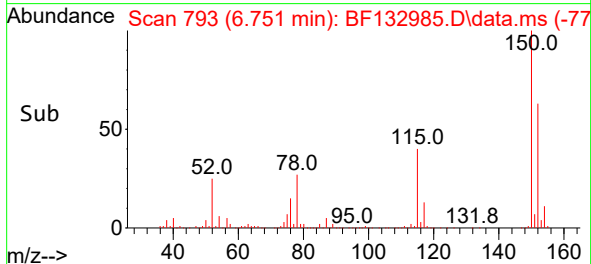
Instrument :
BNA_F
ClientSampleId :
SPB-6WC-23-04-17



Tgt Ion:152 Resp: 207958
Ion Ratio Lower Upper
152 100
150 157.9 124.8 187.2
115 63.1 49.9 74.9

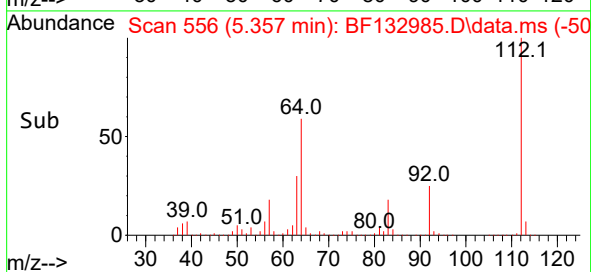
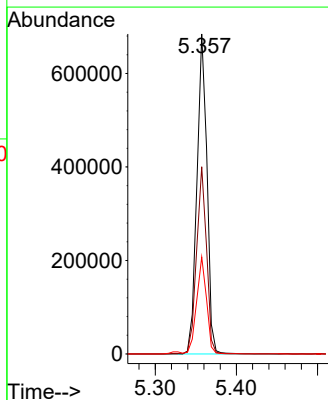
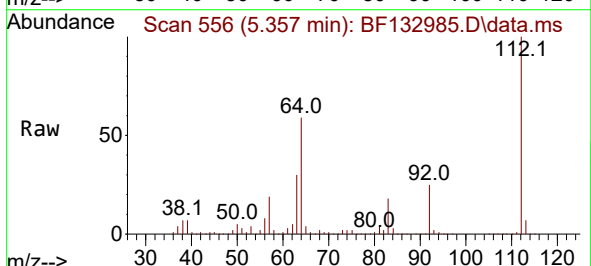
Manual Integrations
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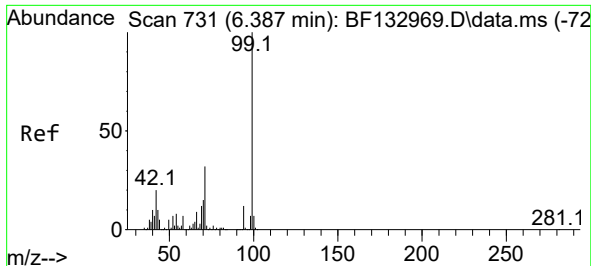
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#5
2-Fluorophenol
Concen: 42.955 ng
RT: 5.357 min Scan# 556
Delta R.T. 0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

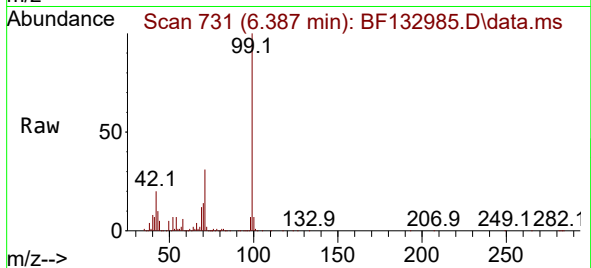
Tgt Ion:112 Resp: 591335
Ion Ratio Lower Upper
112 100
64 58.5 46.8 70.2
63 30.3 23.8 35.8





#7
Phenol-d6
Concen: 41.544 ng
RT: 6.387 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

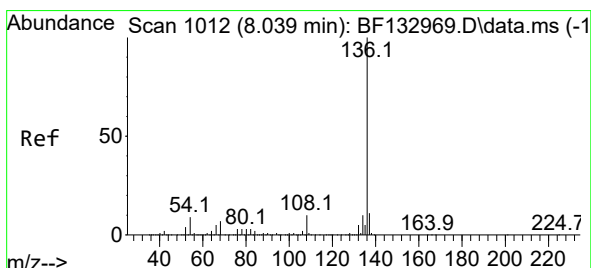
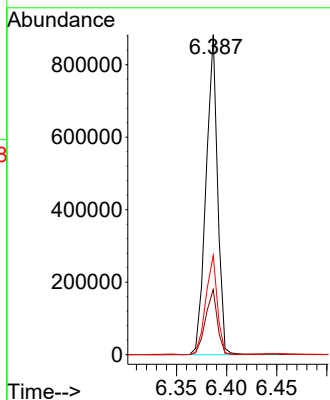
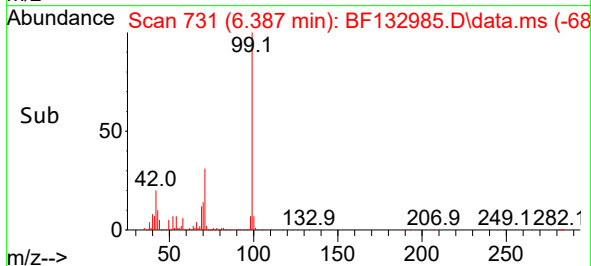
Instrument :
BNA_F
ClientSampleId :
SPB-6WC-23-04-17



Tgt Ion: 99 Resp: 70986
Ion Ratio Lower Upper
99 100
42 20.3 16.3 24.5
71 31.0 25.6 38.4

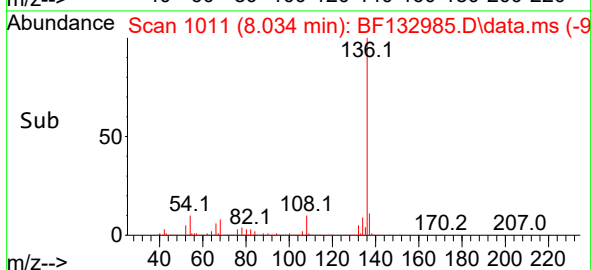
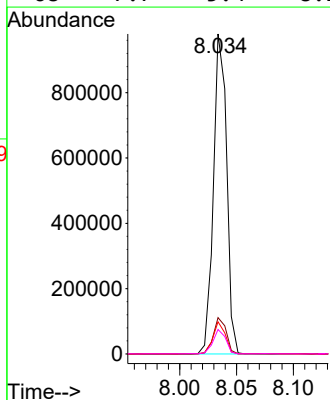
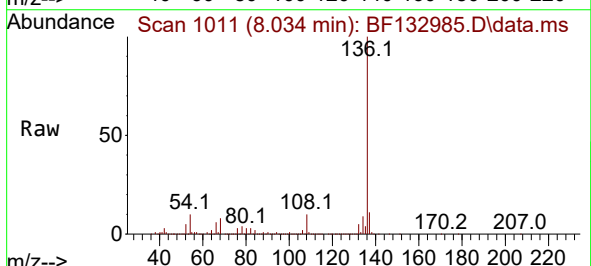
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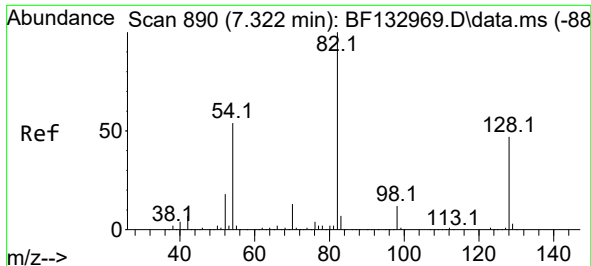
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

Tgt Ion:136 Resp: 792464
Ion Ratio Lower Upper
136 100
137 11.4 8.6 13.0
54 10.1 7.0 10.4
68 7.7 5.4 8.2





#23

Nitrobenzene-d5

Concen: 26.985 ng

RT: 7.310 min Scan# 80

Delta R.T. -0.012 min

Lab File: BF132985.D

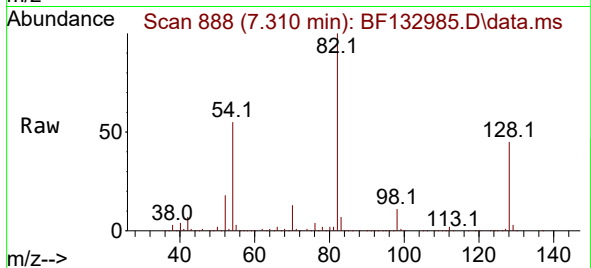
Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17



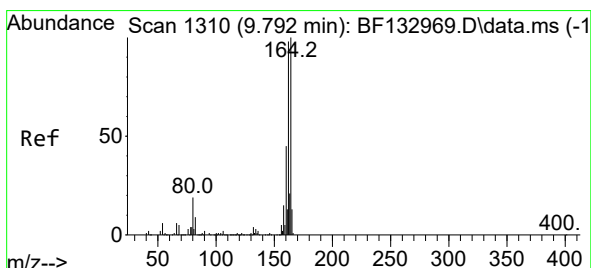
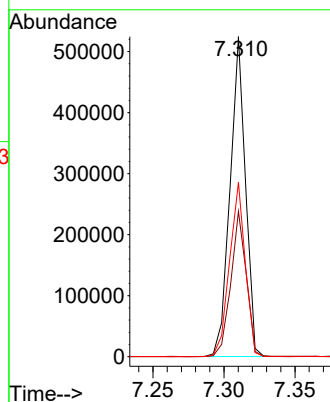
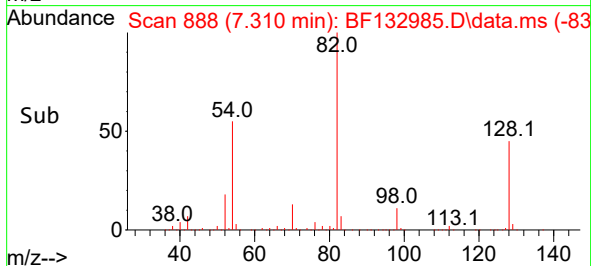
Tgt Ion: 82 Resp: 396178

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.7	56.5
54	54.5	43.0	64.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.786 min Scan# 1309

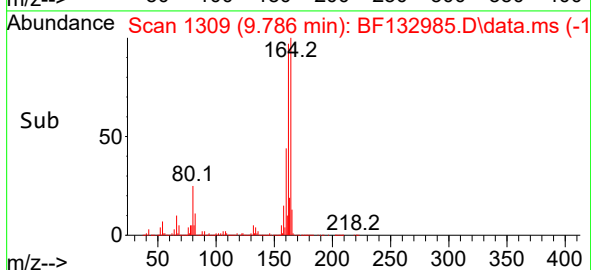
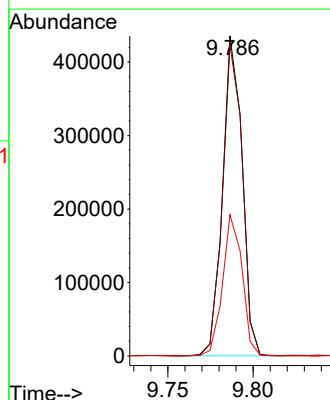
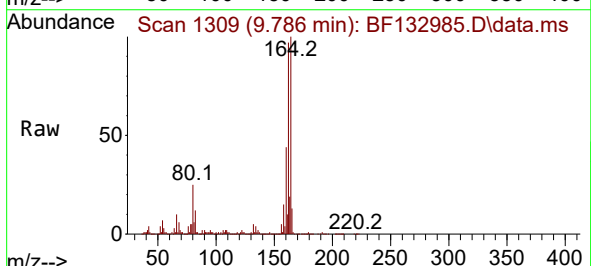
Delta R.T. -0.006 min

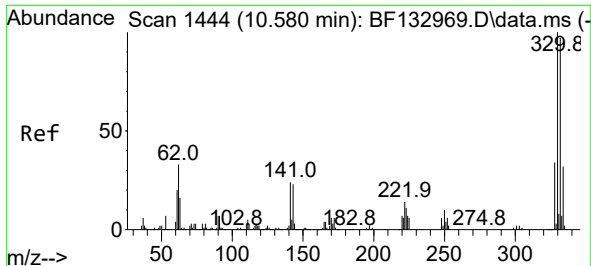
Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Tgt Ion:164 Resp: 347238

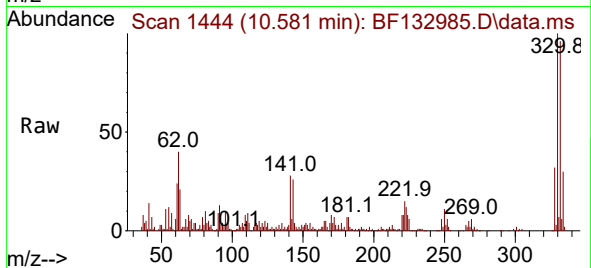
Ion	Ratio	Lower	Upper
164	100		
162	97.3	78.7	118.1
160	44.1	35.8	53.6





#42
2,4,6-Tribromophenol
Concen: 33.281 ng
RT: 10.581 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

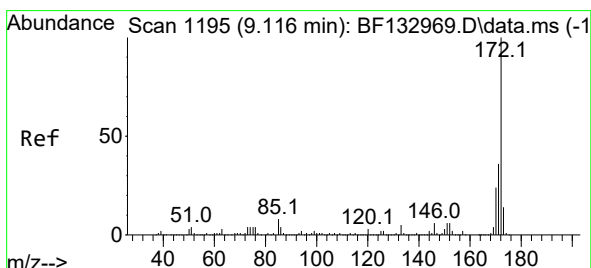
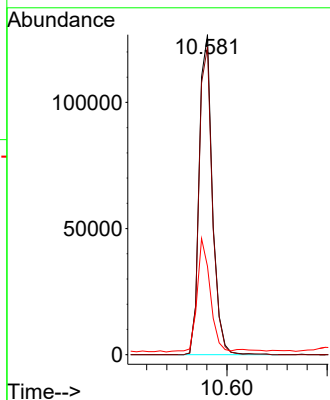
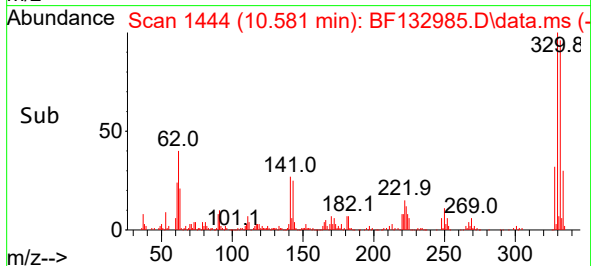
Instrument :
BNA_F
ClientSampleId :
SPB-6WC-23-04-17



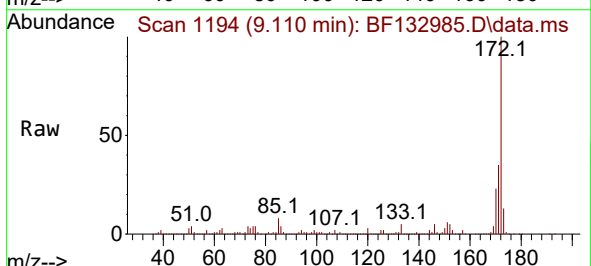
Tgt Ion: 330 Resp: 116223
Ion Ratio Lower Upper
330 100
332 97.2 77.1 115.7
141 35.0 25.8 38.8

Manual Integrations
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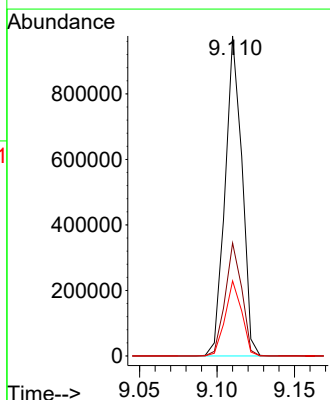
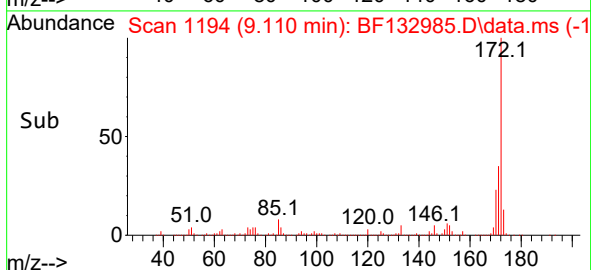
Reviewed By : Christian Giraldo 04/24/2023
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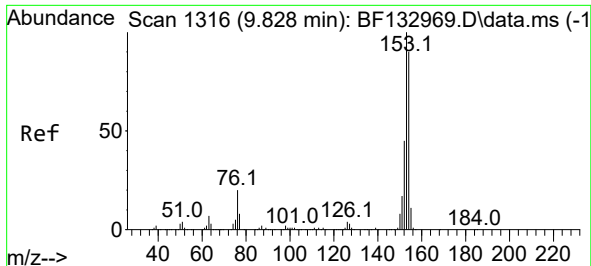


#45
2-Fluorobiphenyl
Concen: 35.657 ng
RT: 9.110 min Scan# 1194
Delta R.T. -0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42



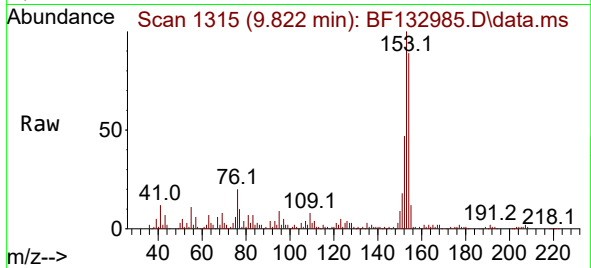
Tgt Ion: 172 Resp: 740086
Ion Ratio Lower Upper
172 100
171 35.3 28.8 43.2
170 23.5 19.4 29.2





#52
Acenaphthene
Concen: 2.518 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

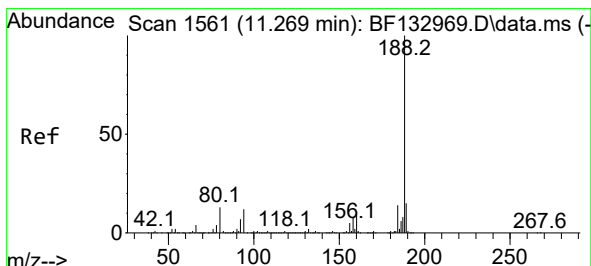
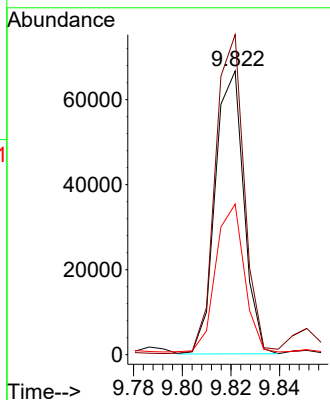
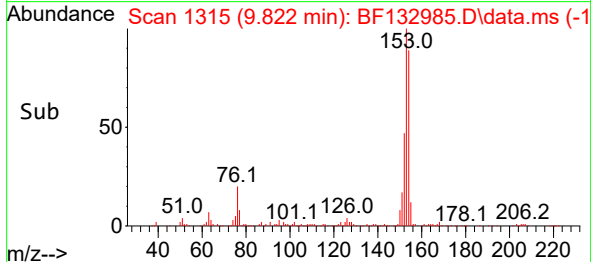
Instrument :
BNA_F
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SPB-6WC-23-04-17



Tgt Ion:154 Resp: 5430
Ion Ratio Lower Upper
154 100
153 112.8 89.0 133.6
152 53.1 40.4 60.6

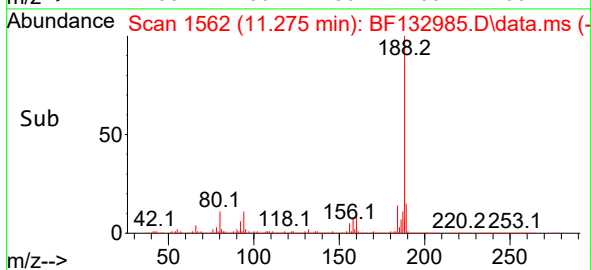
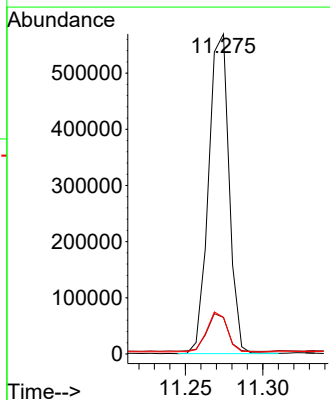
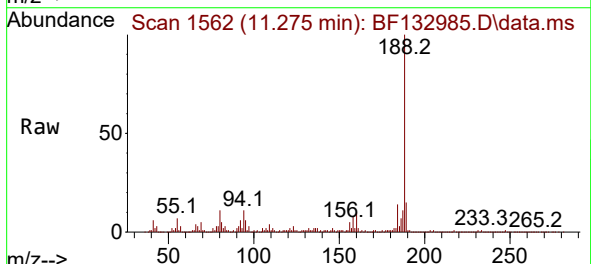
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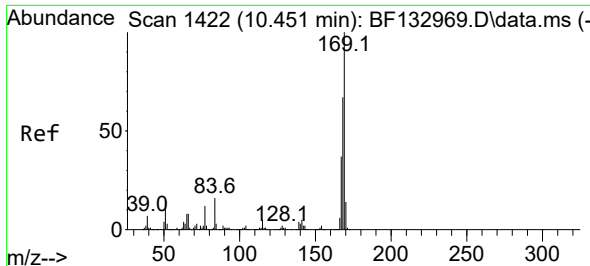
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1562
Delta R.T. 0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

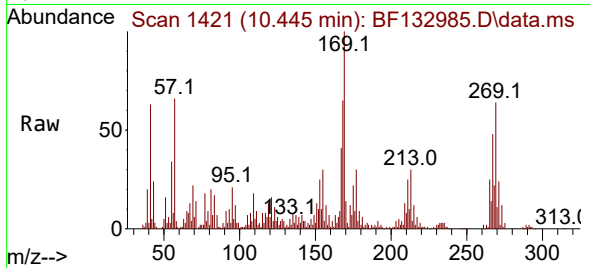
Tgt Ion:188 Resp: 524161
Ion Ratio Lower Upper
188 100
94 11.4 9.7 14.5
80 11.5 10.4 15.6





#66
n-Nitrosodiphenylamine
Concen: 2.352 ng
RT: 10.445 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

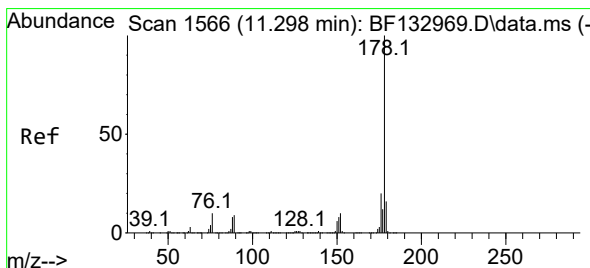
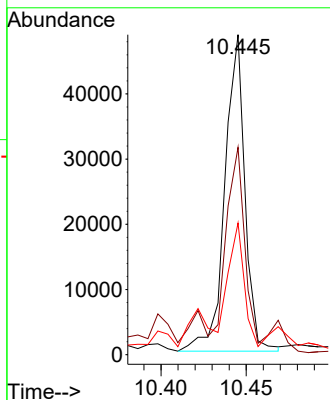
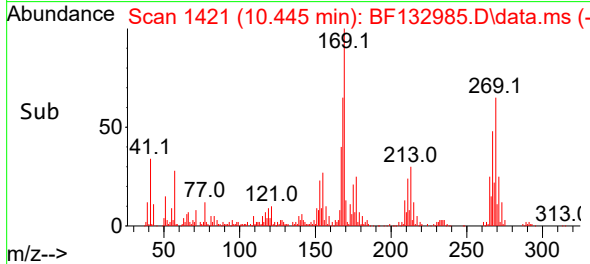
Instrument :
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SPB-6WC-23-04-17



Tgt Ion:169 Resp: 39990
Ion Ratio Lower Upper
169 100
168 64.8 53.8 80.8
167 41.2 29.7 44.5

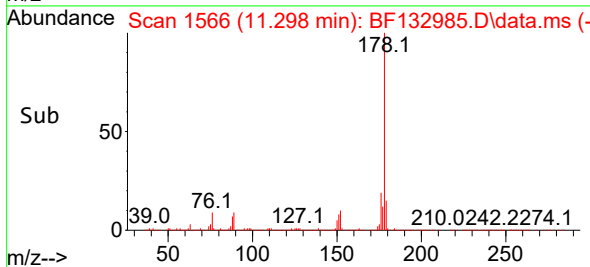
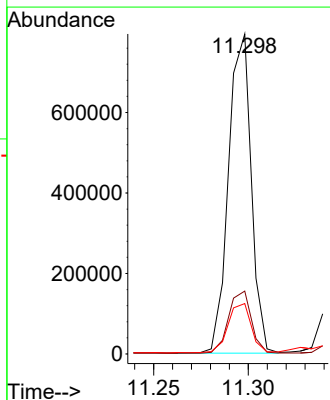
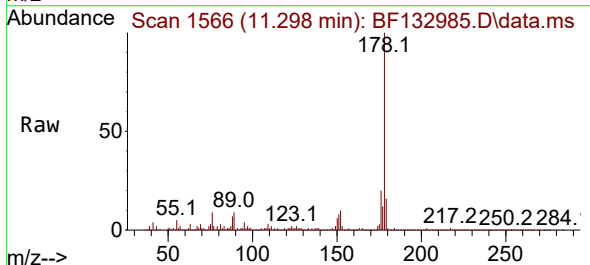
Manual Integrations
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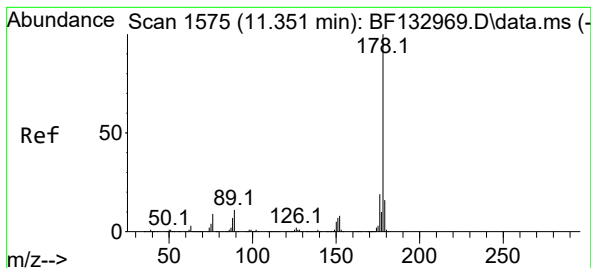
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#71
Phenanthrene
Concen: 23.492 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

Tgt Ion:178 Resp: 661829
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.7 12.5 18.7





#72

Anthracene

Concen: 5.598 ng

RT: 11.345 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17

Tgt Ion:178 Resp: 161410

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

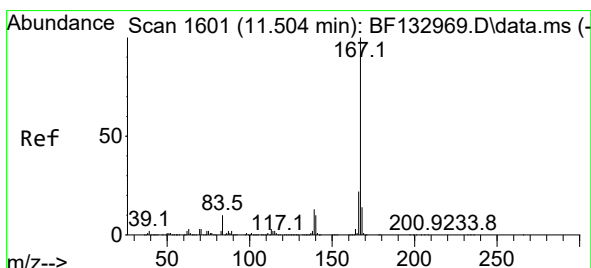
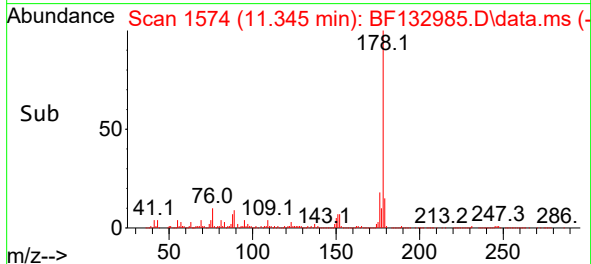
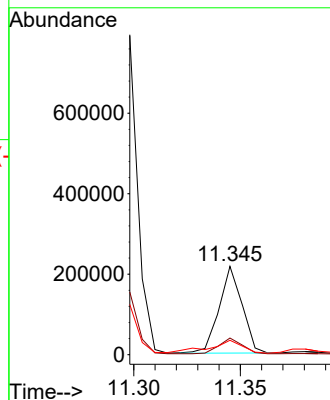
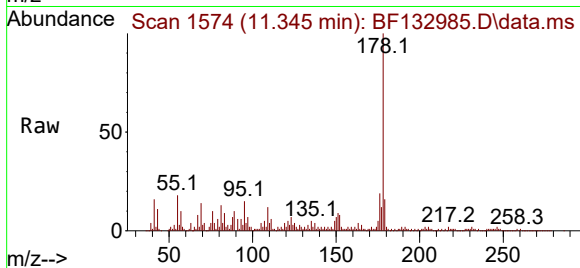
179 16.4 12.4 18.6

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#73

Carbazole

Concen: 3.419 ng

RT: 11.498 min Scan# 1600

Delta R.T. -0.006 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

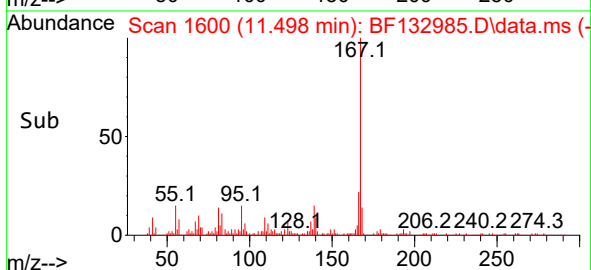
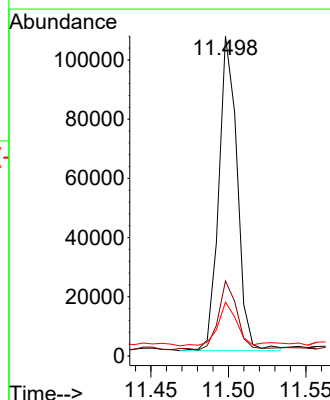
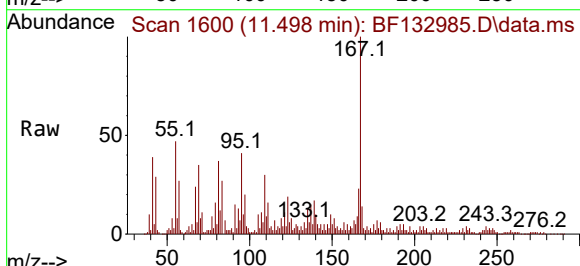
Tgt Ion:167 Resp: 87760

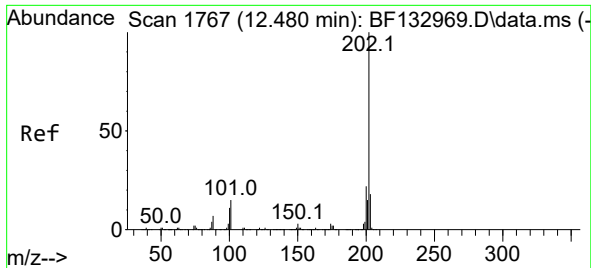
Ion Ratio Lower Upper

167 100

166 23.5 17.4 26.0

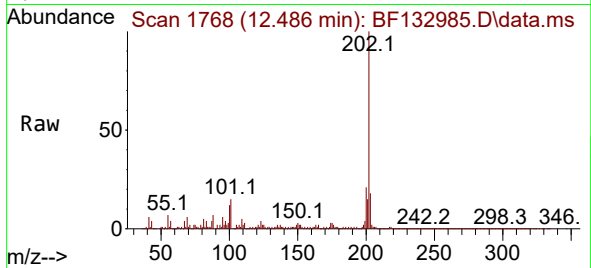
139 16.9 10.6 16.0#





#75
Fluoranthene
Concen: 34.841 ng
RT: 12.486 min Scan# 1768
Delta R.T. 0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

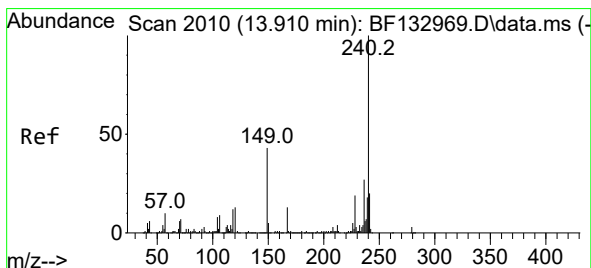
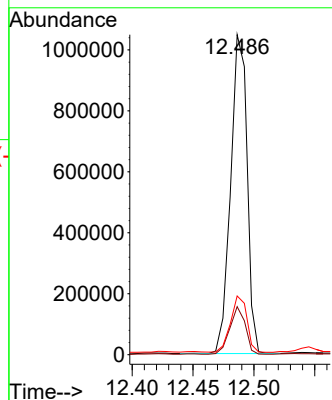
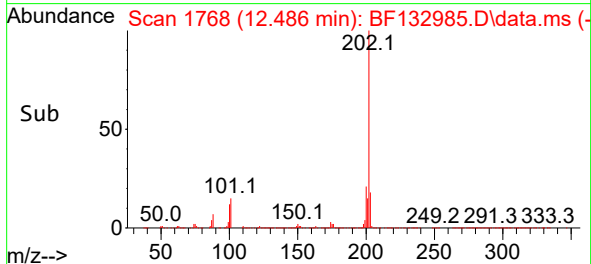
Instrument :
BNA_F
ClientSampleId :
SPB-6WC-23-04-17



Tgt Ion:202 Resp: 985078
Ion Ratio Lower Upper
202 100
101 15.0 0.0 35.3
203 18.4 0.0 38.1

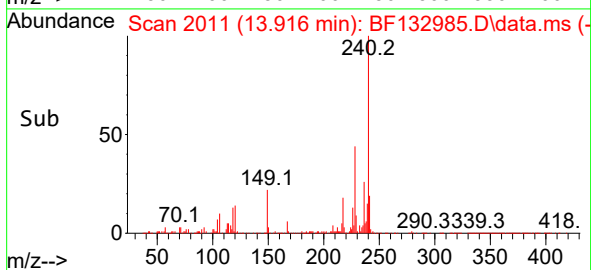
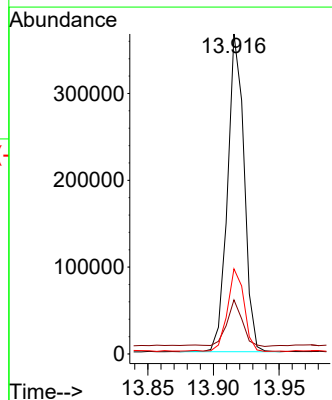
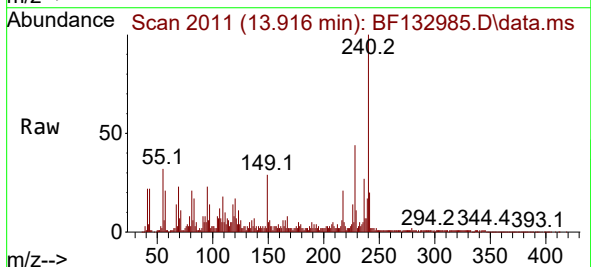
Manual Integrations
APPROVED

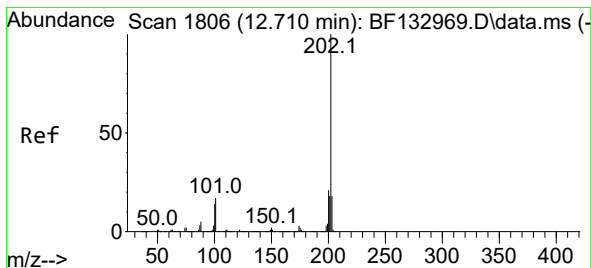
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.916 min Scan# 2011
Delta R.T. 0.006 min
Lab File: BF132985.D
Acq: 21 Apr 2023 23:42

Tgt Ion:240 Resp: 321056
Ion Ratio Lower Upper
240 100
120 16.9 10.5 15.7#
236 26.6 21.5 32.3





#78

Pyrene

Concen: 31.892 ng

RT: 12.716 min Scan# 1806

Delta R.T. 0.006 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17

Tgt Ion:202 Resp: 877730

Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

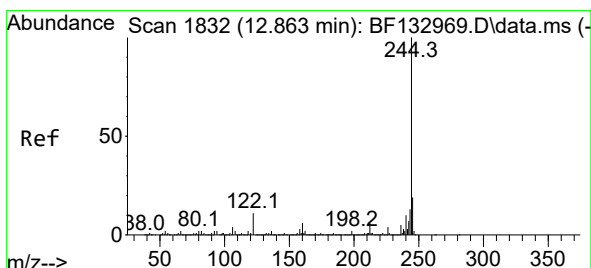
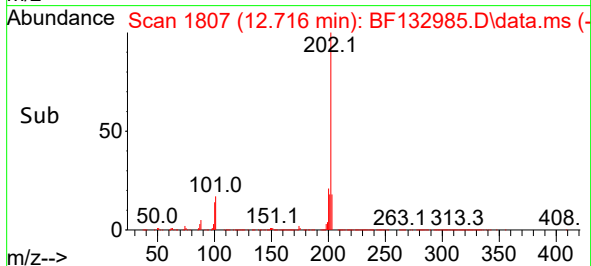
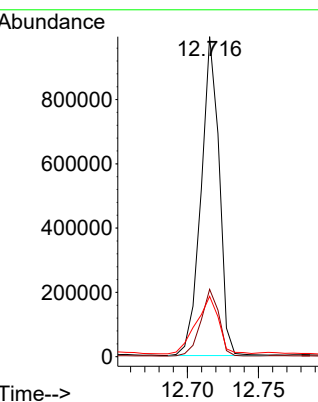
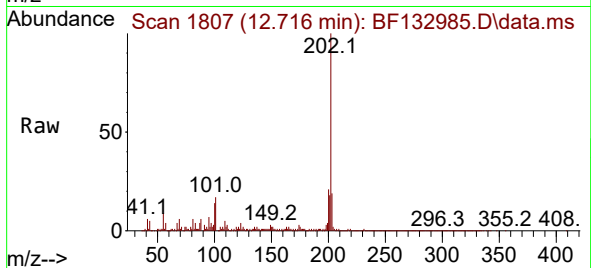
203 18.8 14.1 21.1

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#79

Terphenyl-d14

Concen: 30.022 ng

RT: 12.863 min Scan# 1832

Delta R.T. 0.000 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

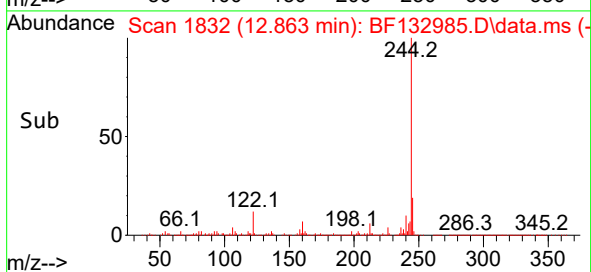
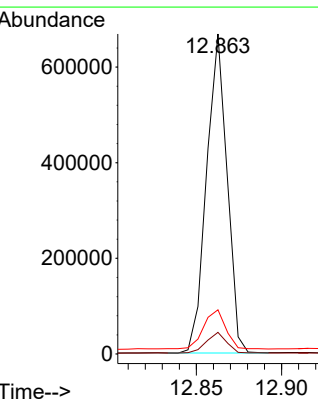
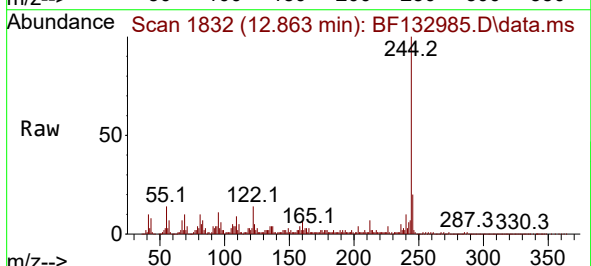
Tgt Ion:244 Resp: 558878

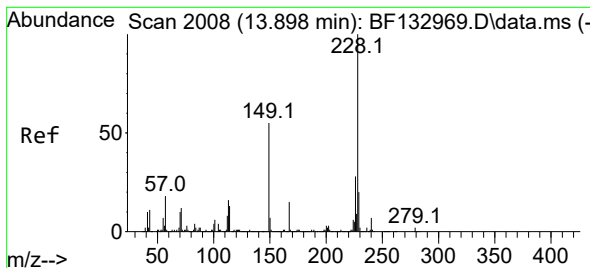
Ion Ratio Lower Upper

244 100

212 6.7 5.1 7.7

122 13.8 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 18.560 ng

RT: 13.910 min Scan# 2010

Delta R.T. 0.012 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNF_F

ClientSampleId :

SPB-6WC-23-04-17

Tgt Ion:228 Resp: 40977

Ion Ratio Lower Upper

228 100

226 29.8 22.2 33.4

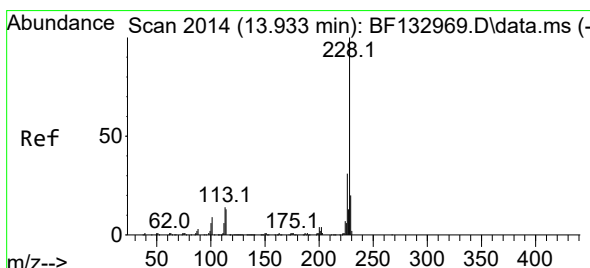
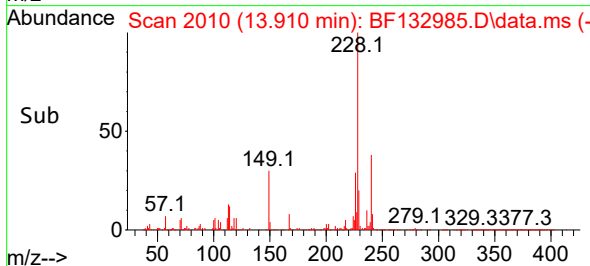
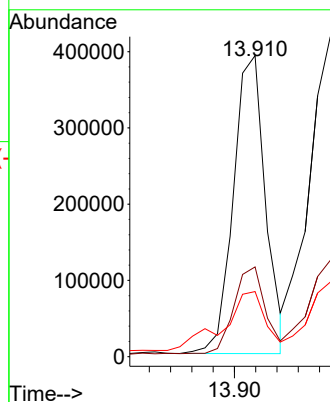
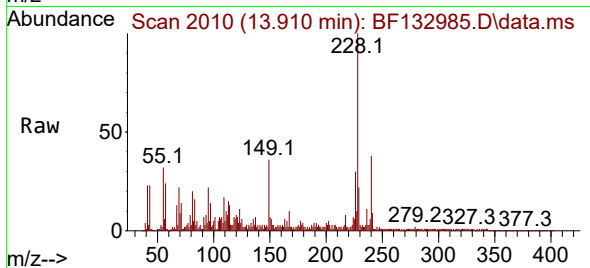
229 21.7 16.0 24.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#83

Chrysene

Concen: 18.747 ng

RT: 13.945 min Scan# 2016

Delta R.T. 0.012 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

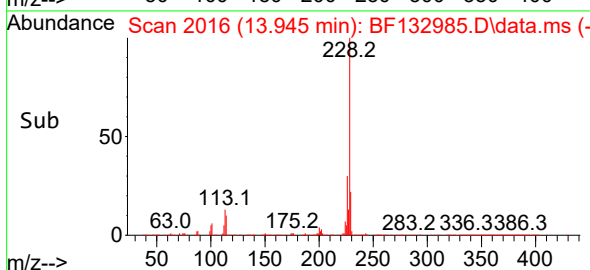
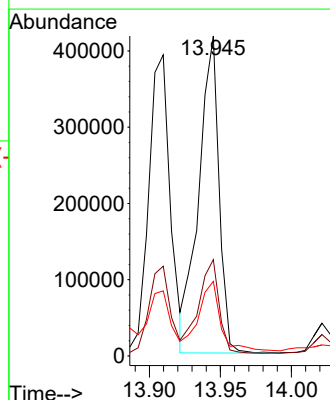
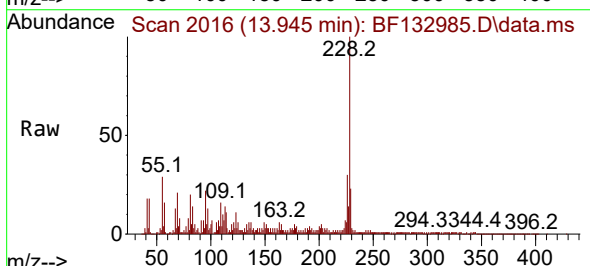
Tgt Ion:228 Resp: 413794

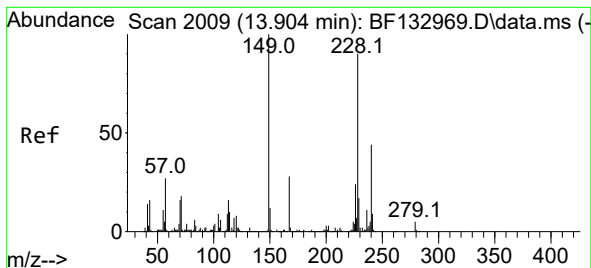
Ion Ratio Lower Upper

228 100

226 30.1 24.7 37.1

229 23.3 16.1 24.1





#84

Bis(2-ethylhexyl)phthalate

Concen: 8.330 ng

RT: 13.910 min Scan# 2009

Delta R.T. 0.006 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17

Tgt Ion:149 Resp: 10188

Ion Ratio Lower Upper

149 100

167 28.5 22.5 33.7

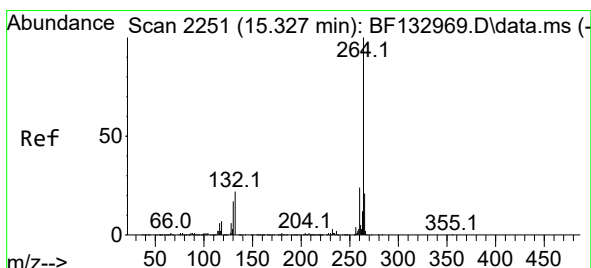
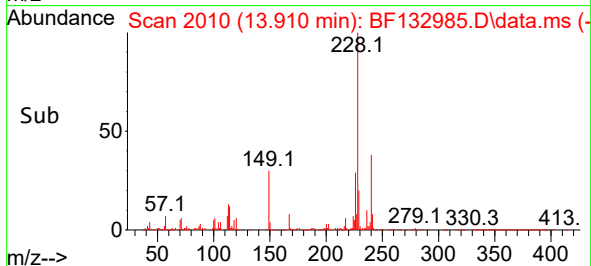
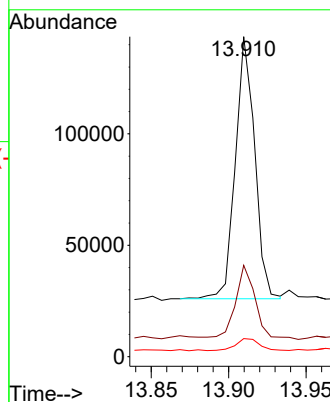
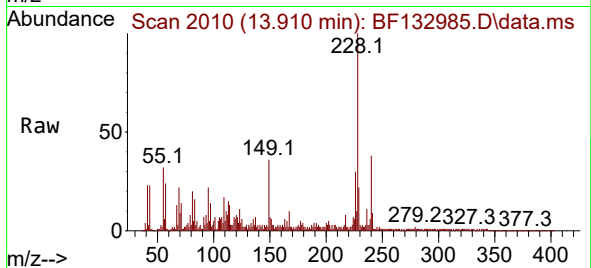
279 5.6 4.2 6.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.357 min Scan# 2256

Delta R.T. 0.029 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

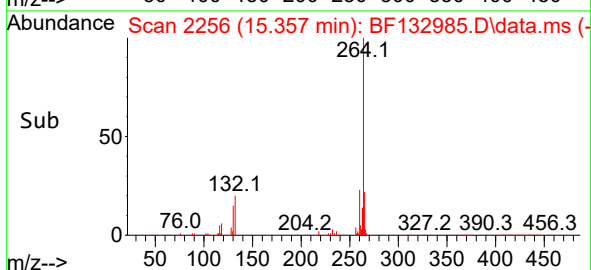
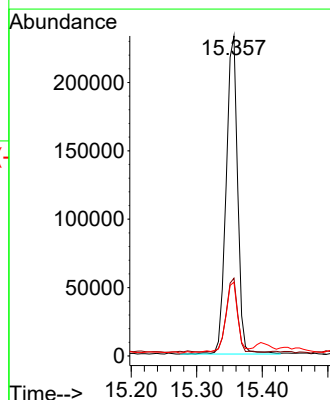
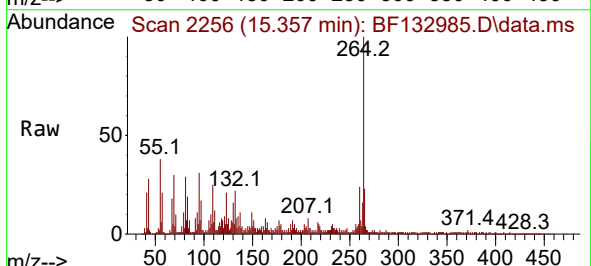
Tgt Ion:264 Resp: 282169

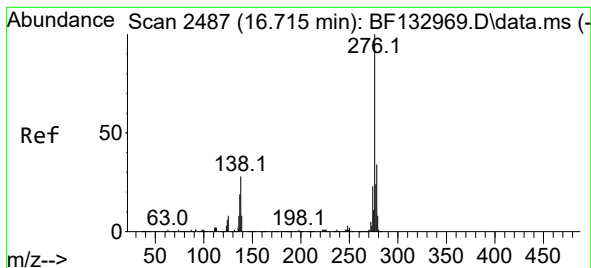
Ion Ratio Lower Upper

264 100

260 24.3 18.8 28.2

265 23.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.940 ng

RT: 16.745 min Scan# 2487

Delta R.T. 0.029 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17

Tgt Ion:276 Resp: 19164

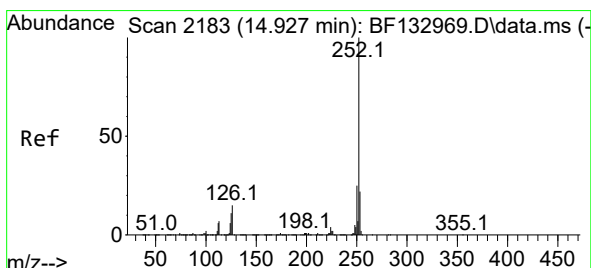
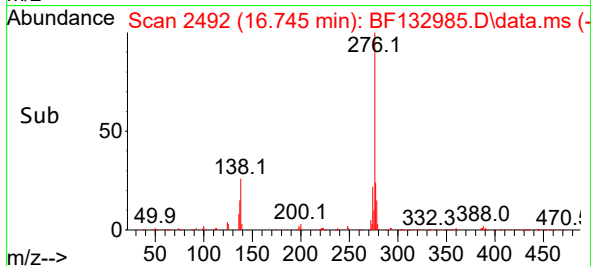
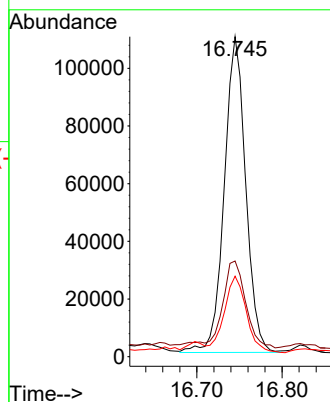
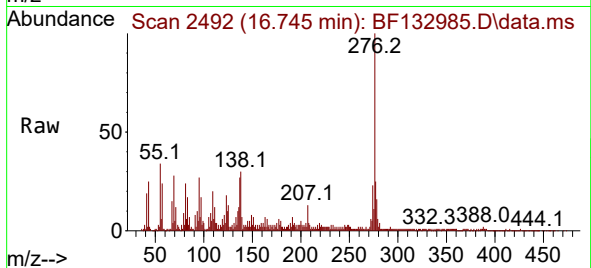
Ion	Ratio	Lower	Upper
276	100		
138	30.7	25.5	38.3
277	25.2	20.4	30.6

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#88

Benzo(b)fluoranthene

Concen: 27.970 ng m

RT: 14.945 min Scan# 2186

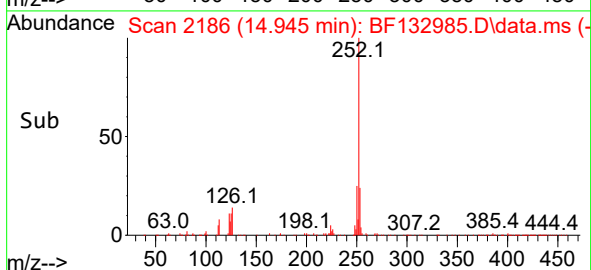
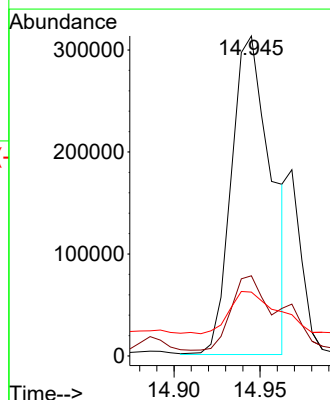
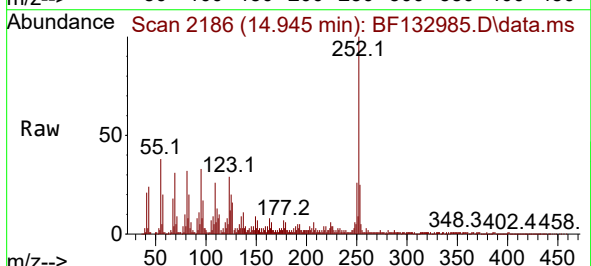
Delta R.T. 0.018 min

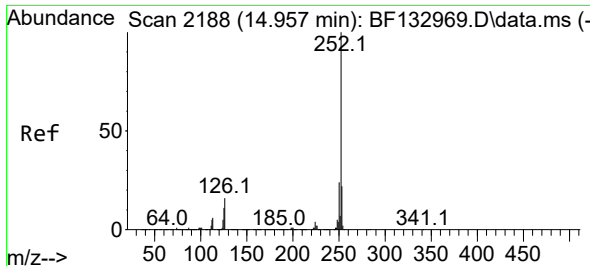
Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Tgt Ion:252 Resp: 502094

Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.6	26.4
125	20.0	8.9	13.3





#89

Benzo(k)fluoranthene

Concen: 5.929 ng m

RT: 14.968 min Scan# 2188

Delta R.T. 0.012 min

Lab File: BF132985.D

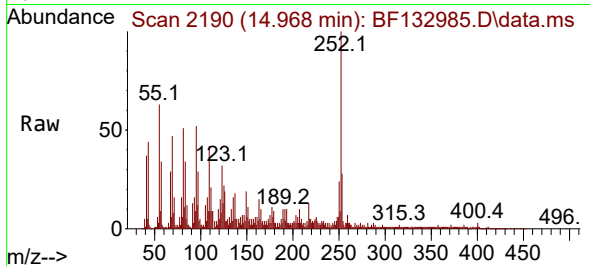
Acq: 21 Apr 2023 23:42

Instrument :

BNF

ClientSampleId :

SPB-6WC-23-04-17



Tgt Ion:252 Resp: 105510

Ion Ratio Lower Upper

252 100

253 27.8 17.7 26.5

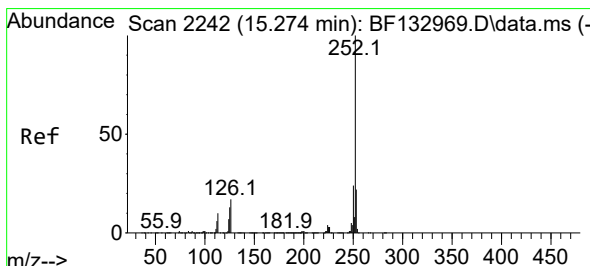
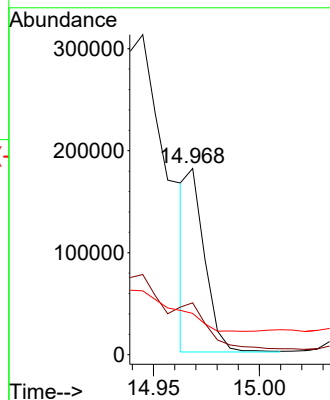
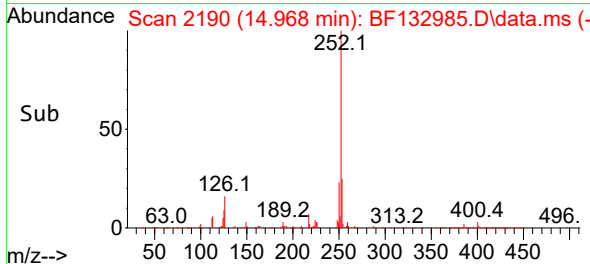
125 22.2 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#90

Benzo(a)pyrene

Concen: 17.559 ng

RT: 15.292 min Scan# 2245

Delta R.T. 0.018 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

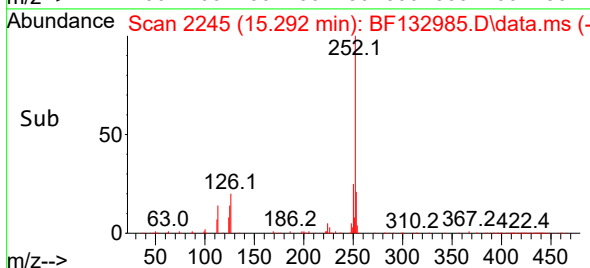
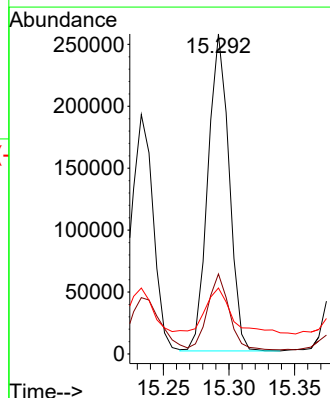
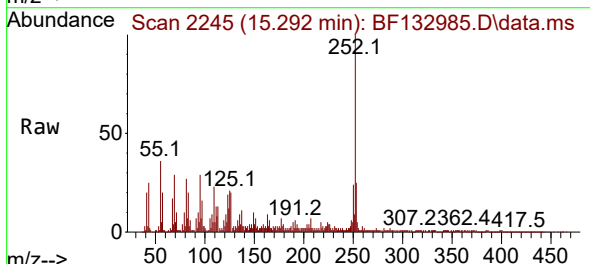
Tgt Ion:252 Resp: 286901

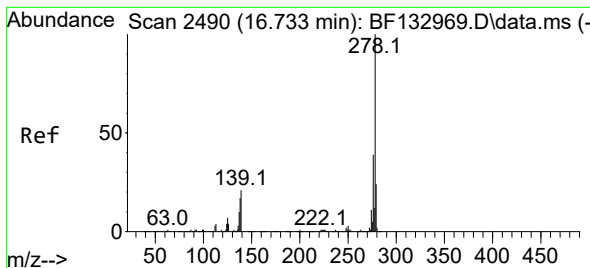
Ion Ratio Lower Upper

252 100

253 25.0 17.7 26.5

125 20.6 10.5 15.7





#91

Dibenzo(a,h)anthracene

Concen: 3.867 ng

RT: 16.757 min Scan# 2490

Delta R.T. 0.024 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Instrument :

BNA_F

ClientSampleId :

SPB-6WC-23-04-17

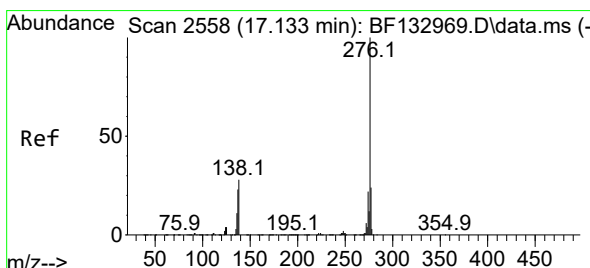
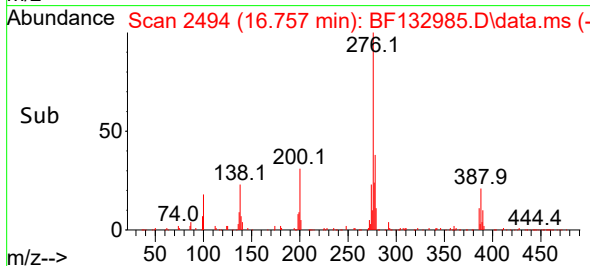
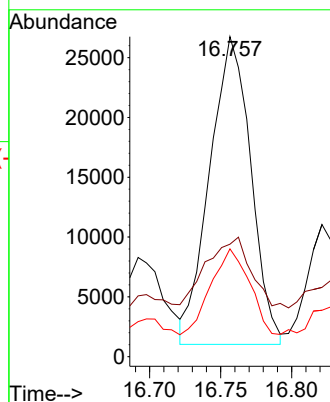
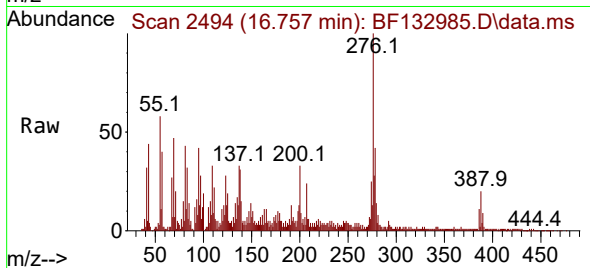
Tgt Ion:	278	Resp:	51764
Ion Ratio	Lower	Upper	
278	100		
139	35.2	16.6	24.8
279	33.7	18.8	28.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#92

Benzo(g,h,i)perylene

Concen: 14.193 ng

RT: 17.162 min Scan# 2563

Delta R.T. 0.029 min

Lab File: BF132985.D

Acq: 21 Apr 2023 23:42

Tgt Ion:	276	Resp:	187578
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.4	29.0
138	30.4	22.7	34.1

