

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092023\
 Data File : BF135367.D
 Acq On : 20 Sep 2023 20:18
 Operator : CG\JU
 Sample : 04423-01DL 20X
 Misc :
 ALS Vial : 20 Sample Multiplier: 2

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/21/2023
 Supervised By :mohammad ahmed 09/21/2023

Quant Time: Sep 21 01:53:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	352379	40.000	ng	0.00
21) Naphthalene-d8	8.039	136	1252978	40.000	ng	0.00
39) Acenaphthene-d10	9.792	164	518805	40.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	834602	40.000	ng	# 0.00
76) Chrysene-d12	13.951	240	638456	40.000	ng	0.00
86) Perylene-d12	15.415	264	577301	40.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	115891	10.698	ng	0.00
7) Phenol-d6	6.398	99	151601	11.006	ng	0.00
23) Nitrobenzene-d5	7.316	82	84632	7.339	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	19529	7.576	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	147384	8.572	ng	-0.02
79) Terphenyl-d14	12.880	244	113451	5.509	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.057	128	266555	8.757	ng	99
37) 2-Methylnaphthalene	8.751	142	83736	4.092	ng	100
38) 1-Methylnaphthalene	8.845	142	58363	3.047	ng	99
52) Acenaphthene	9.828	154	133409	9.395	ng	97
55) Dibenzofuran	9.998	168	161262	7.442	ng	96
58) Fluorene	10.339	166	190480	11.434	ng	99
71) Phenanthrene	11.316	178	948452	48.056	ng	99
72) Anthracene	11.363	178	318501	15.700	ng	99
73) Carbazole	11.522	167	87911	4.760	ng	99
75) Fluoranthene	12.510	202	1077802	52.409	ng	99
78) Pyrene	12.739	202	991288	32.616	ng	99
81) Benzo(a)anthracene	13.933	228	469585	22.781	ng	97
83) Chrysene	13.974	228	415652	20.281	ng	98
87) Indeno(1,2,3-cd)pyrene	16.892	276	133446	7.051	ng	98
88) Benzo(b)fluoranthene	14.986	252	401057m	25.667	ng	
89) Benzo(k)fluoranthene	15.010	252	128817m	8.346	ng	
90) Benzo(a)pyrene	15.351	252	277437	18.618	ng	97
91) Dibenzo(a,h)anthracene	16.892	278	34089	2.201	ng	# 77
92) Benzo(g,h,i)perylene	17.339	276	127193	7.865	ng	# 94

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

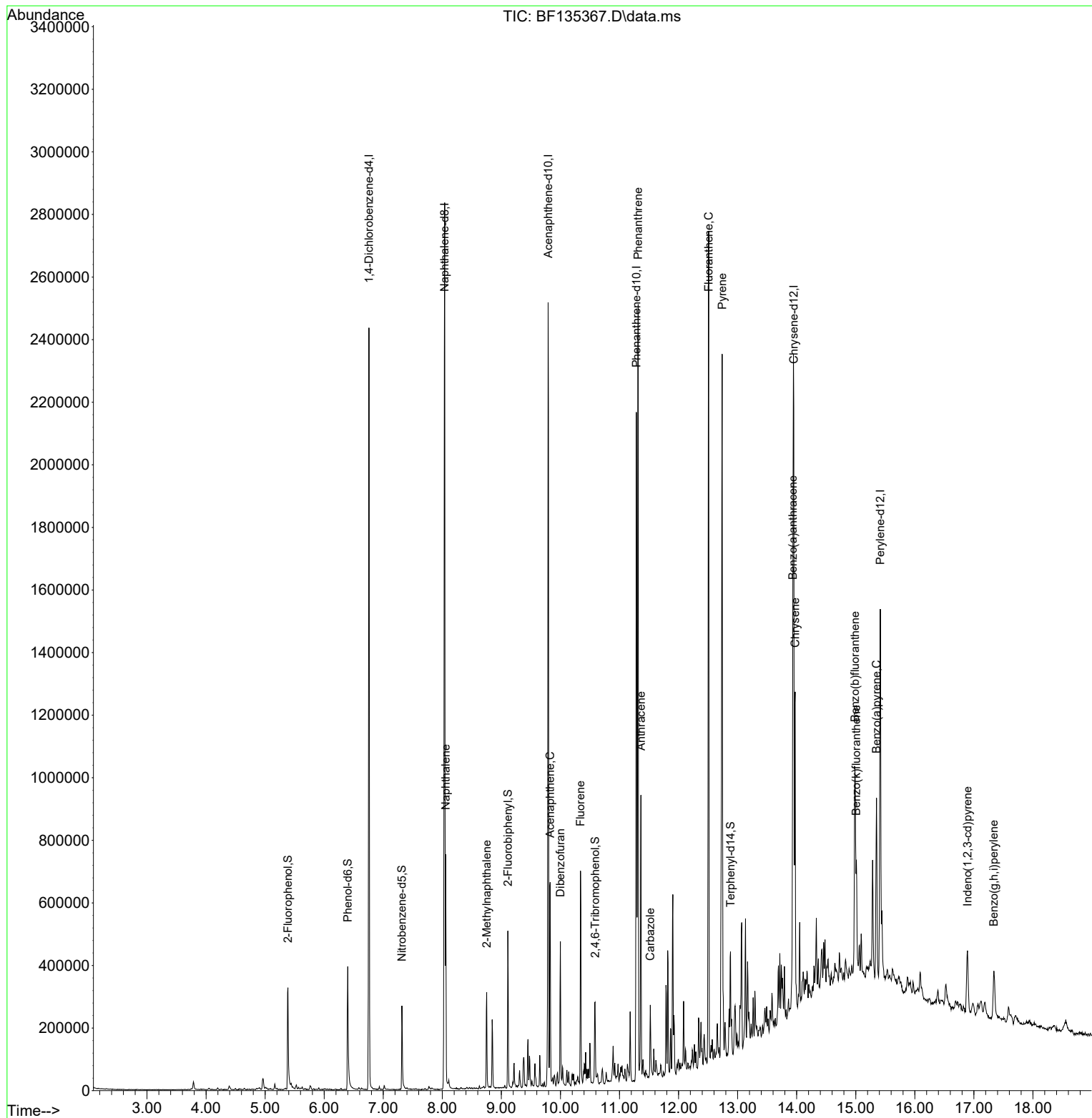
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092023\
Data File : BF135367.D
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Misc :
ALS Vial : 20 Sample Multiplier: 2

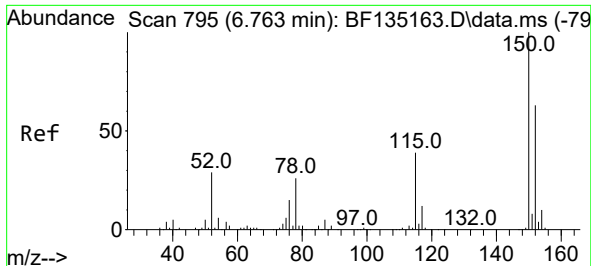
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HD-01-09132023DL

Quant Time: Sep 21 01:53:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
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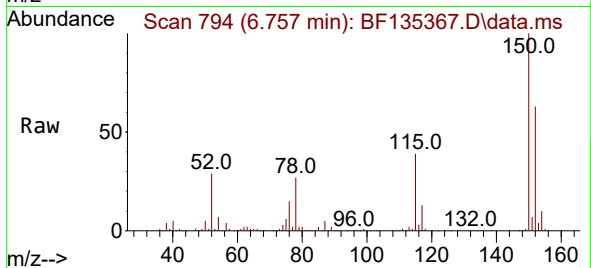
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023





#1
1,4-Dichlorobenzene-d4
Concen: 40.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

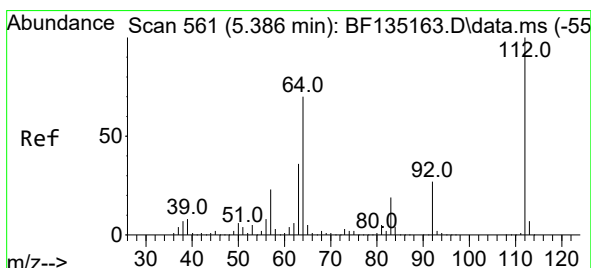
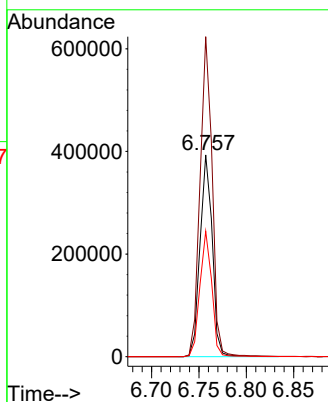
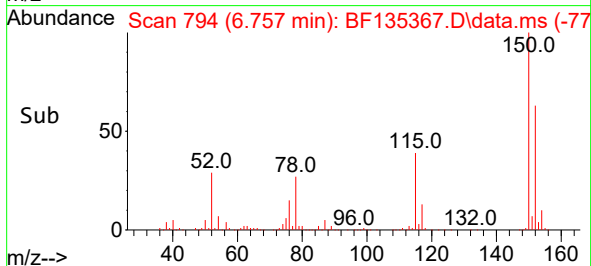
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL



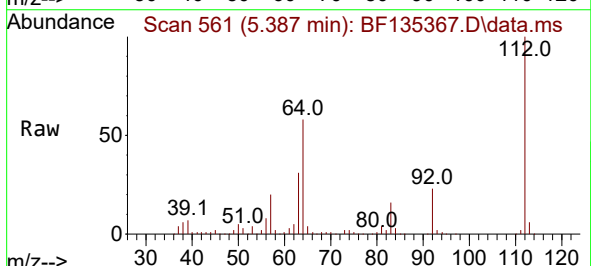
Tgt Ion:152 Resp: 352379
Ion Ratio Lower Upper
152 100
150 158.6 127.8 191.6
115 62.2 49.8 74.8

Manual Integrations
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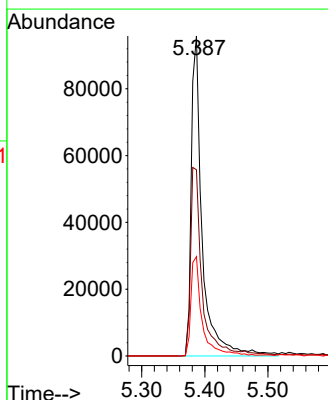
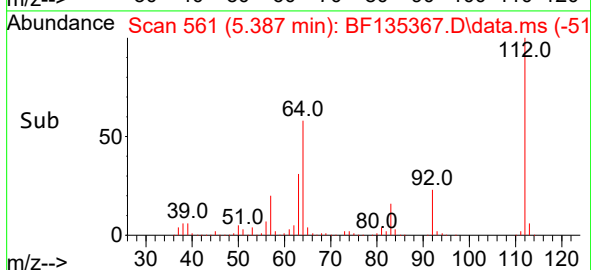
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

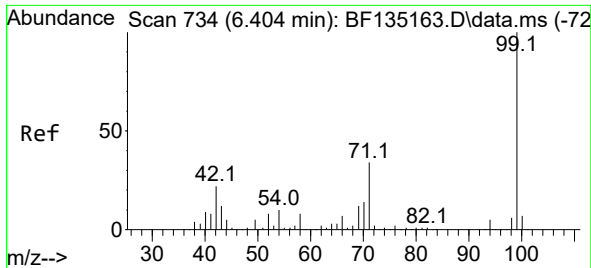


#5
2-Fluorophenol
Concen: 10.698 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18



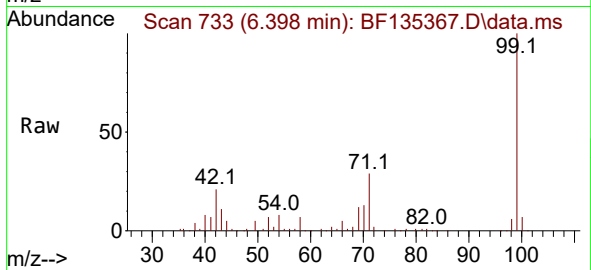
Tgt Ion:112 Resp: 115891
Ion Ratio Lower Upper
112 100
64 58.2 55.9 83.9
63 31.1 29.0 43.6





#7
Phenol-d6
Concen: 11.006 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

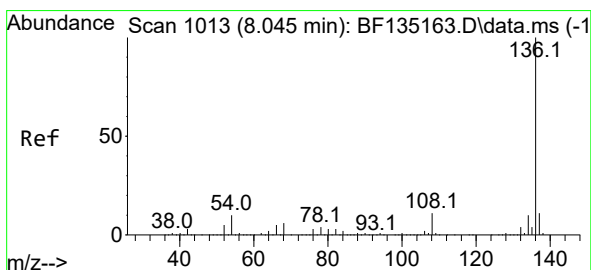
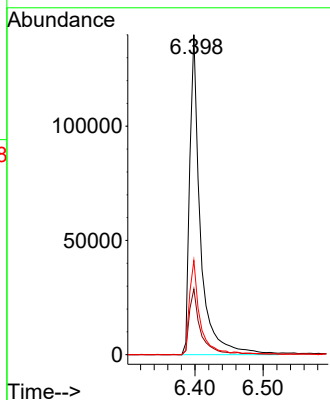
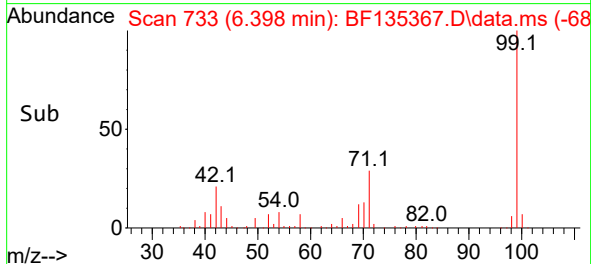
Instrument :
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ClientSampleId :
HD-01-09132023DL



Tgt Ion: 99 Resp: 15160
Ion Ratio Lower Upper
99 100
42 20.5 17.9 26.9
71 29.5 27.0 40.6

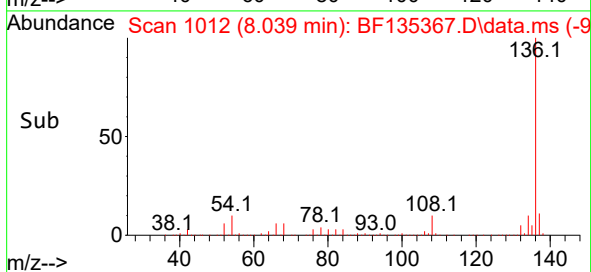
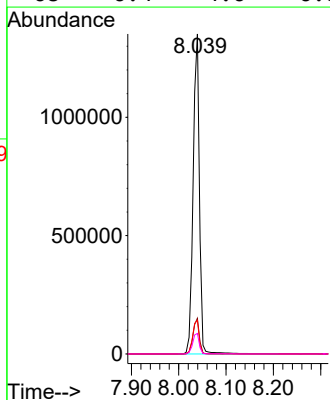
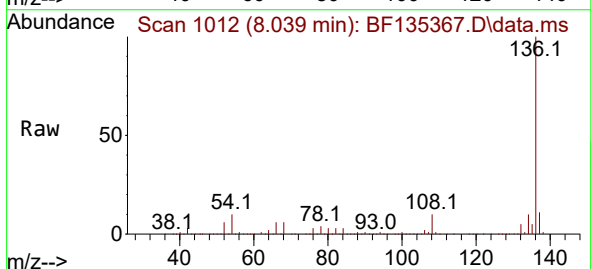
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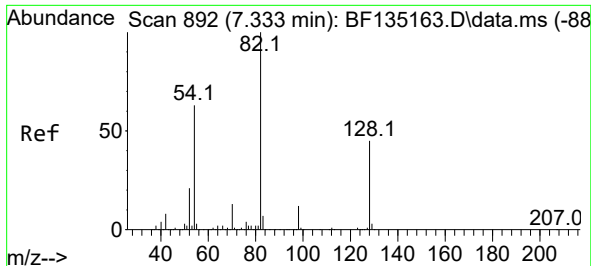
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#21
Naphthalene-d8
Concen: 40.000 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:136 Resp: 1252978
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 10.5 7.7 11.5
68 6.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 7.339 ng

RT: 7.316 min Scan# 84

Delta R.T. -0.017 min

Lab File: BF135367.D

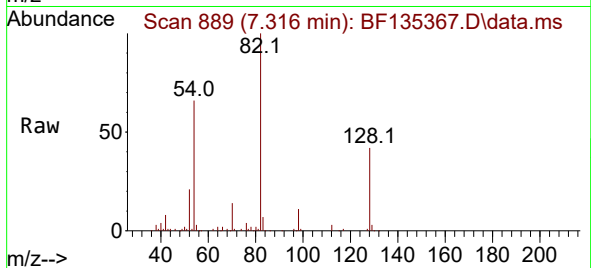
Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL



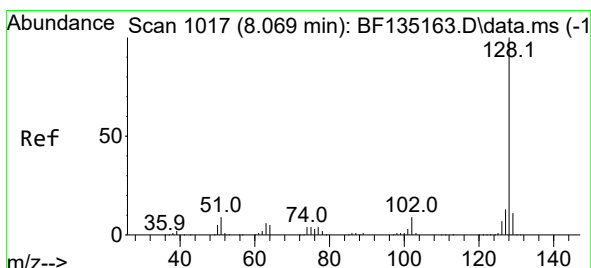
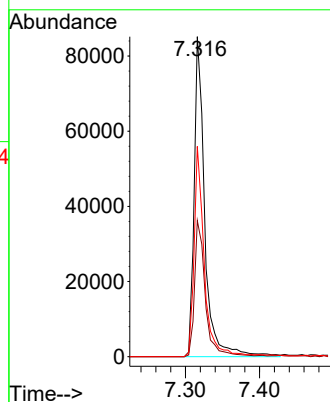
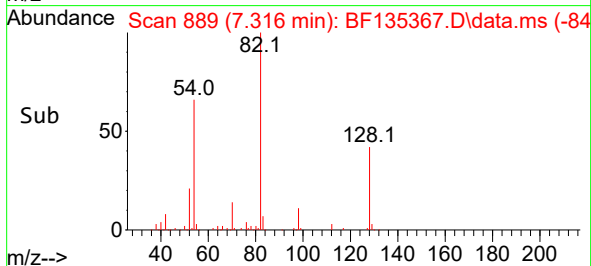
Tgt Ion:	82	Resp:	8463
Ion Ratio	Lower	Upper	
82	100		
128	42.5	35.8	53.6
54	65.7	50.6	76.0

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#31

Naphthalene

Concen: 8.757 ng

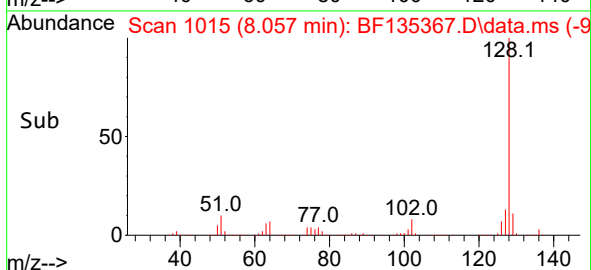
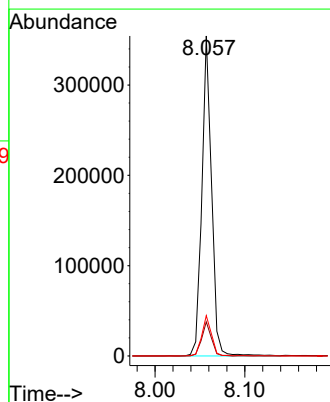
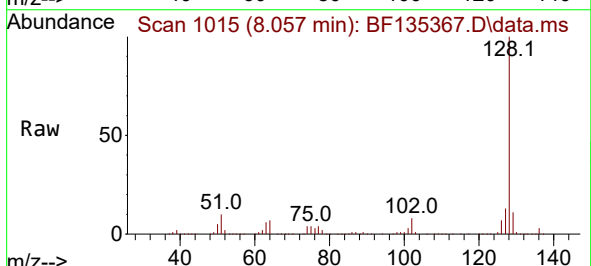
RT: 8.057 min Scan# 1015

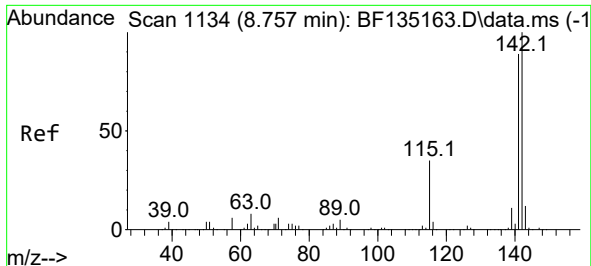
Delta R.T. -0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Tgt Ion:	128	Resp:	266555
Ion Ratio	Lower	Upper	
128	100		
129	10.7	8.7	13.1
127	12.6	10.7	16.1





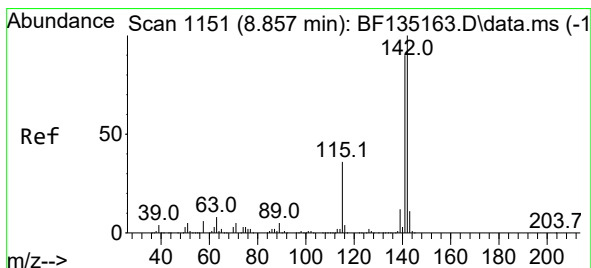
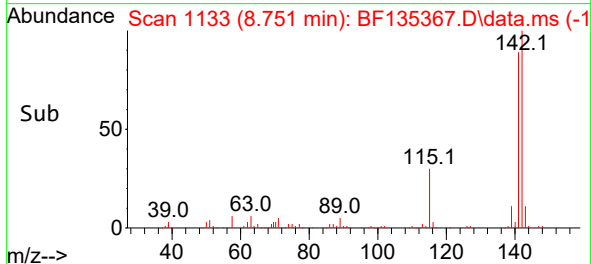
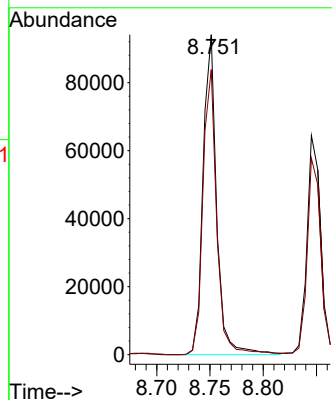
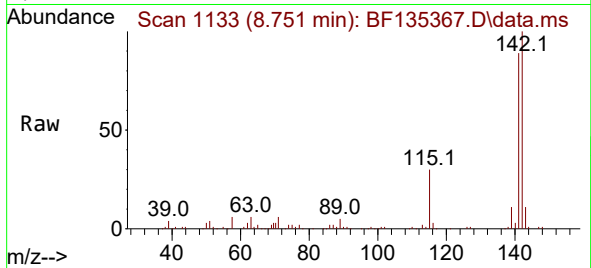
#37
2-Methylnaphthalene
Concen: 4.092 ng
RT: 8.751 min Scan# 1133
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

Tgt Ion:142 Resp: 83730
Ion Ratio Lower Upper
142 100
141 89.1 71.0 106.6

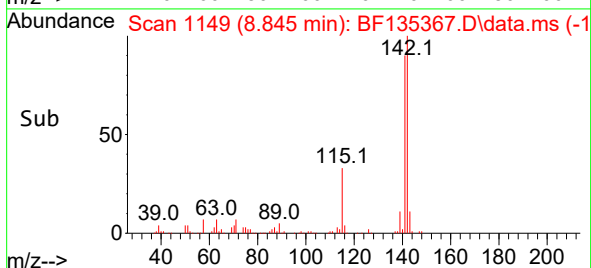
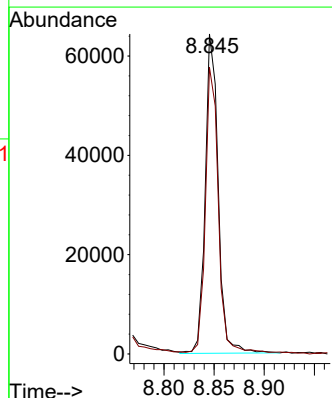
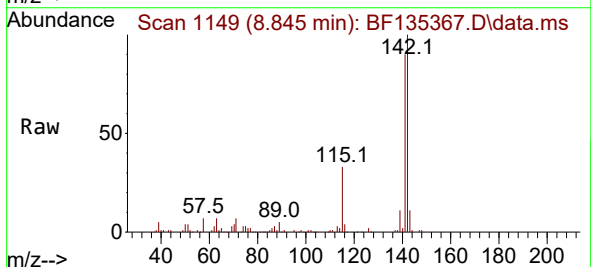
Manual Integrations
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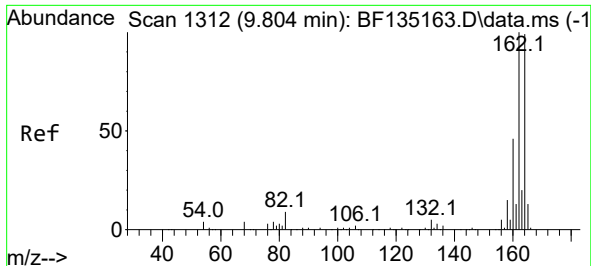
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#38
1-Methylnaphthalene
Concen: 3.047 ng
RT: 8.845 min Scan# 1149
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:142 Resp: 58363
Ion Ratio Lower Upper
142 100
141 89.6 72.4 108.6





#39

Acenaphthene-d10

Concen: 40.000 ng

RT: 9.792 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

Tgt Ion:164 Resp: 51880

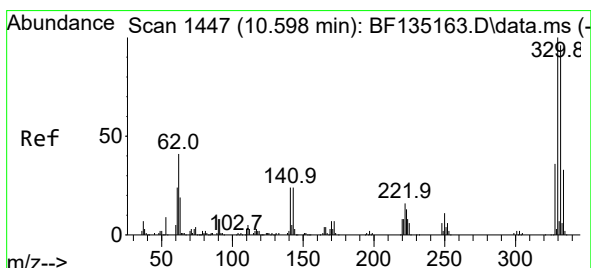
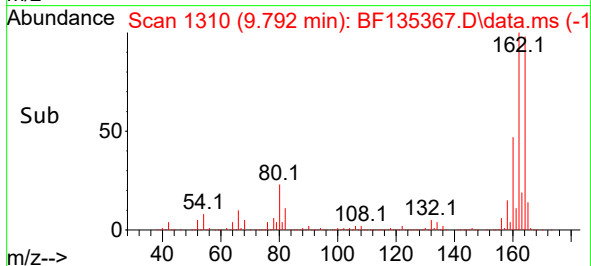
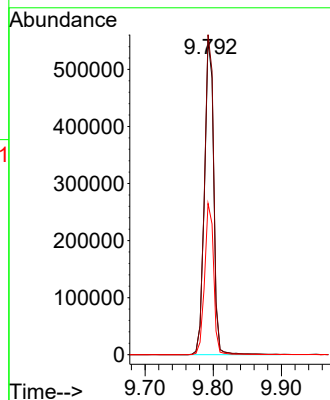
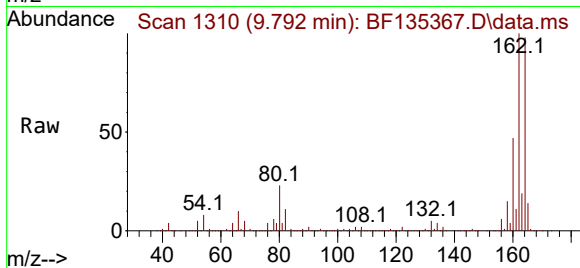
Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.4
160	48.0	37.0	55.4

Manual Integrations

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#42

2,4,6-Tribromophenol

Concen: 7.576 ng

RT: 10.586 min Scan# 1445

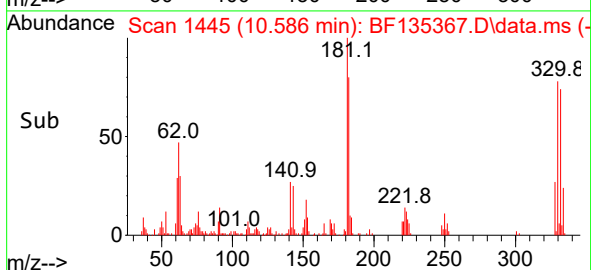
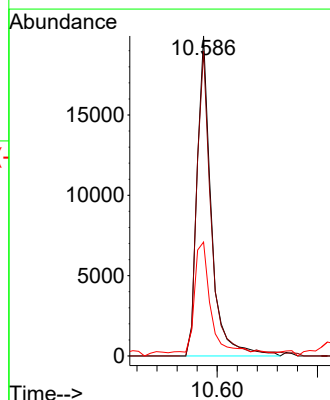
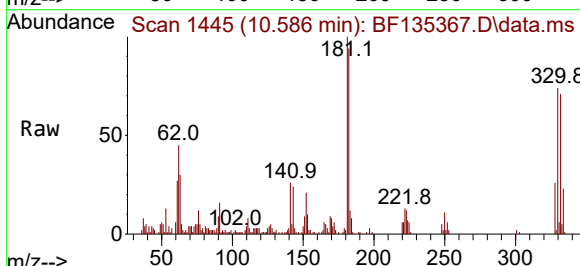
Delta R.T. -0.012 min

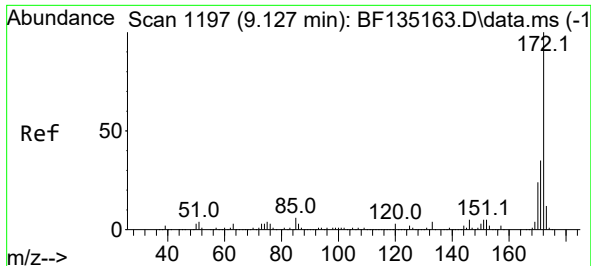
Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Tgt Ion:330 Resp: 19529

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.3	115.9
141	41.6	25.8	38.8





#45

2-Fluorobiphenyl

Concen: 8.572 ng

RT: 9.110 min Scan# 1194

Delta R.T. -0.017 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

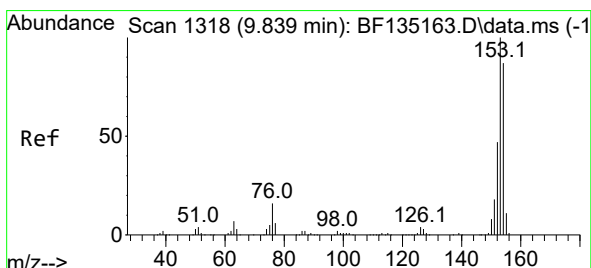
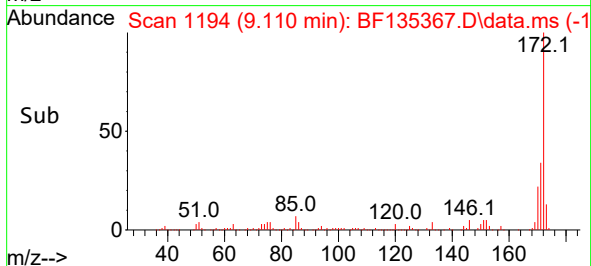
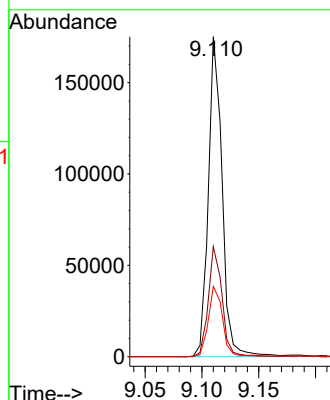
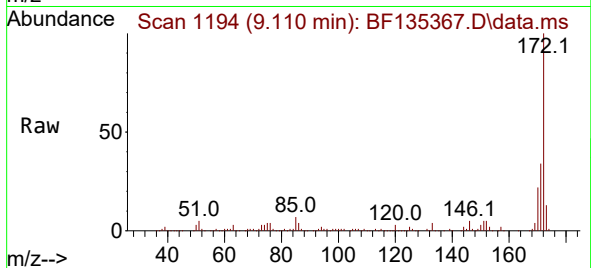
Tgt Ion:172	Resp: 147384
Ion Ratio	Lower Upper
172	100
171	34.4 28.4 42.6
170	21.9 19.0 28.4

Manual Integrations

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Supervised By :mohammad ahmed 09/21/2023



#52

Acenaphthene

Concen: 9.395 ng

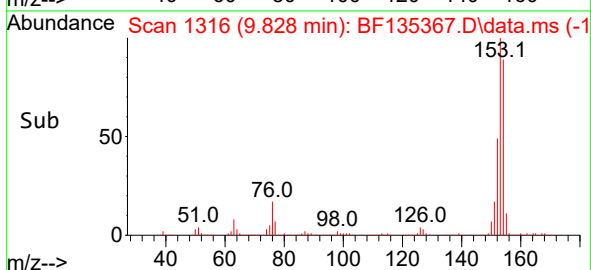
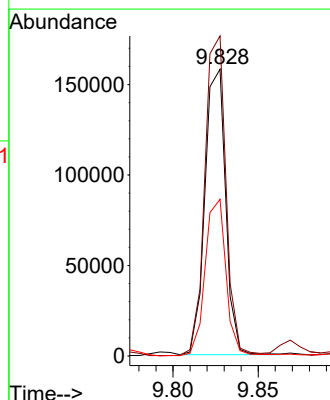
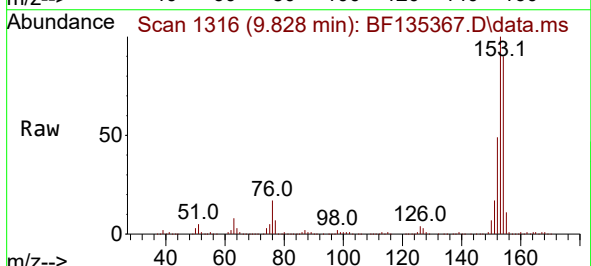
RT: 9.828 min Scan# 1316

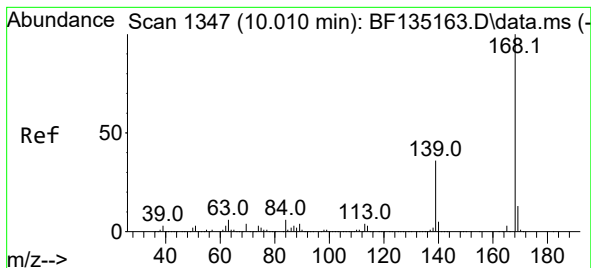
Delta R.T. -0.011 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

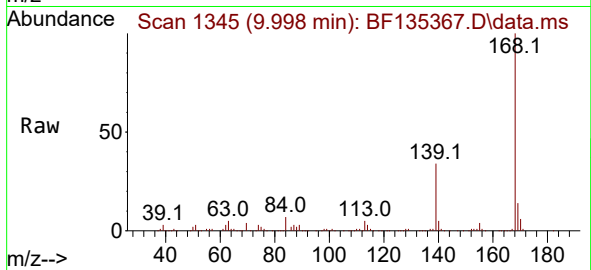
Tgt Ion:154	Resp: 133409
Ion Ratio	Lower Upper
154	100
153	111.6 92.1 138.1
152	54.6 43.1 64.7





#55
Dibenzenofuran
Concen: 7.442 ng
RT: 9.998 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

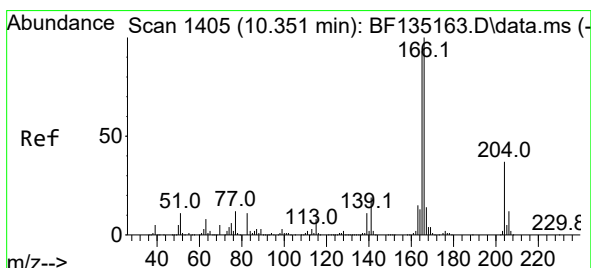
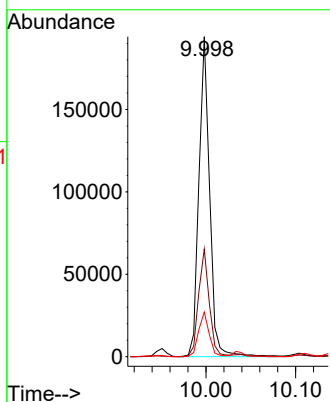
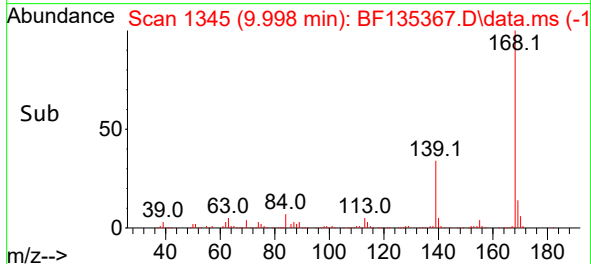
Instrument :
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ClientSampleId :
HD-01-09132023DL



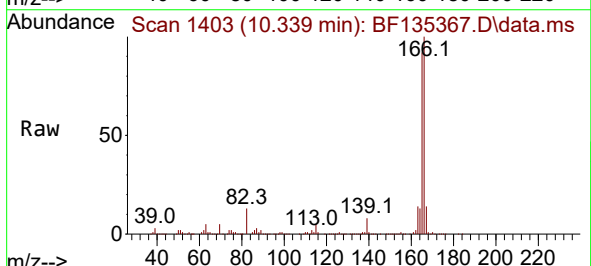
Tgt Ion:168 Resp: 16126
Ion Ratio Lower Upper
168 100
139 33.6 29.0 43.6
169 13.9 10.4 15.6

Manual Integrations
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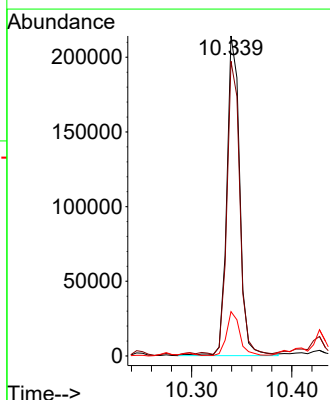
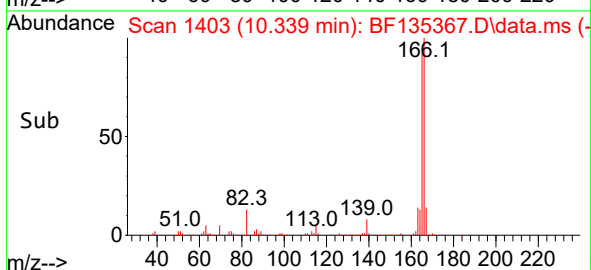
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

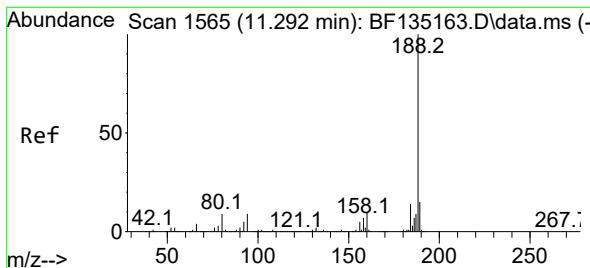


#58
Fluorene
Concen: 11.434 ng
RT: 10.339 min Scan# 1403
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18



Tgt Ion:166 Resp: 190480
Ion Ratio Lower Upper
166 100
165 92.1 74.3 111.5
167 13.9 10.9 16.3





#64

Phenanthrene-d10

Concen: 40.000 ng

RT: 11.286 min Scan# 1564

Delta R.T. -0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

Tgt Ion:188 Resp: 834602

Ion Ratio Lower Upper

188 100

94 11.2 7.0 10.6

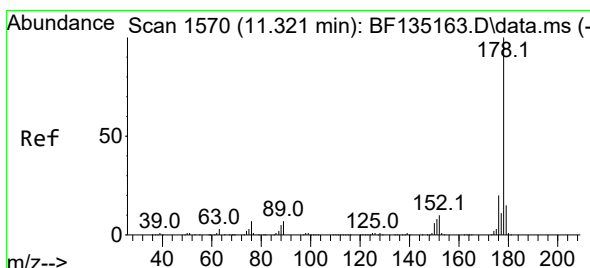
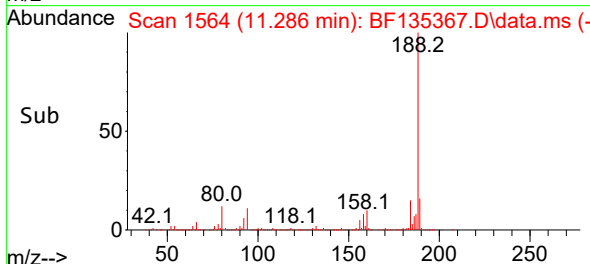
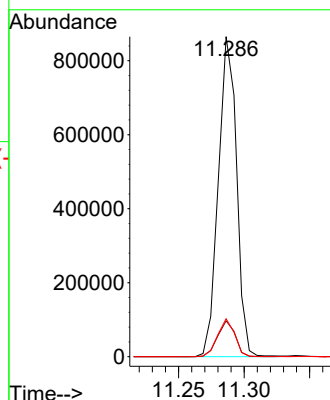
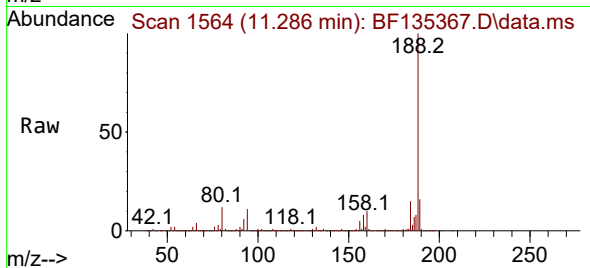
80 11.8 7.5 11.3

Manual Integrations

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#71

Phenanthrene

Concen: 48.056 ng

RT: 11.316 min Scan# 1569

Delta R.T. -0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

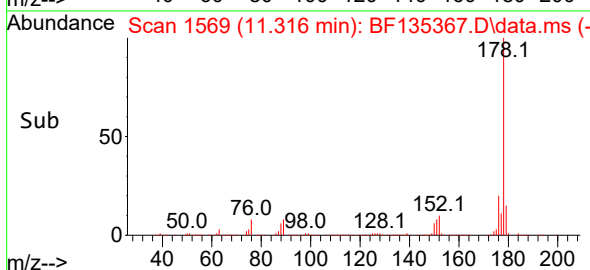
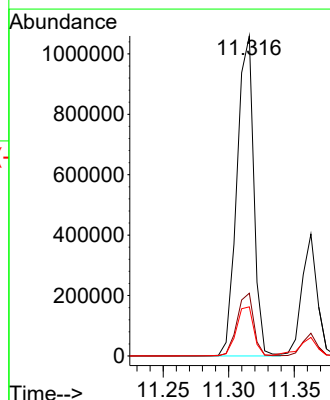
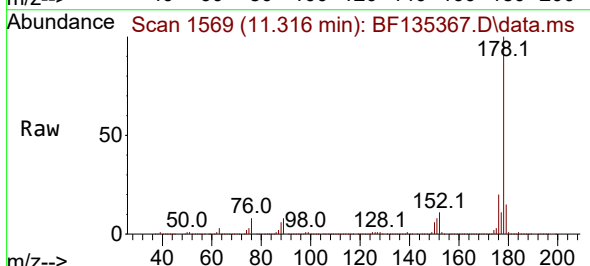
Tgt Ion:178 Resp: 948452

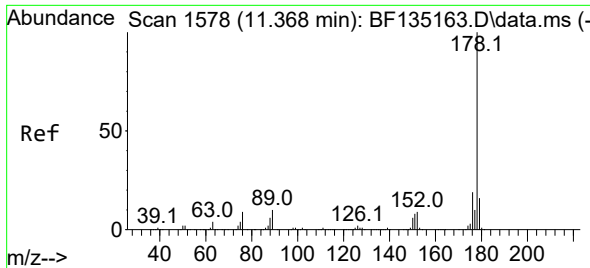
Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

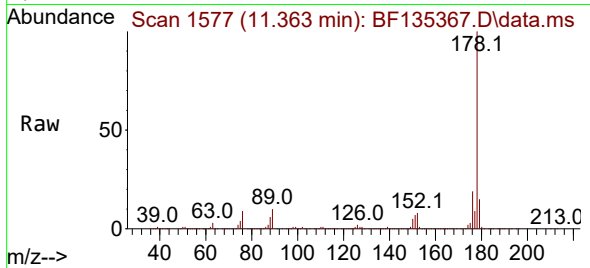
179 15.4 12.0 18.0





#72
 Anthracene
 Concen: 15.700 ng
 RT: 11.363 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135367.D
 Acq: 20 Sep 2023 20:18

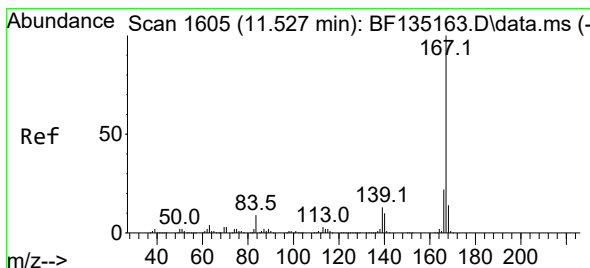
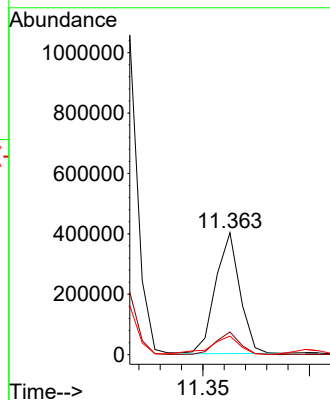
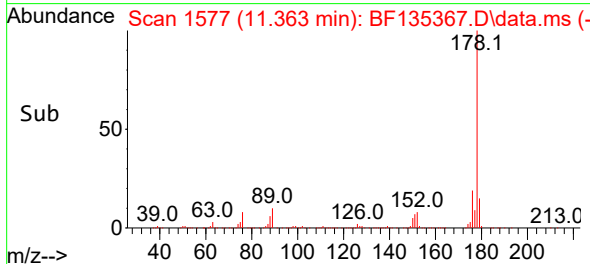
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023DL



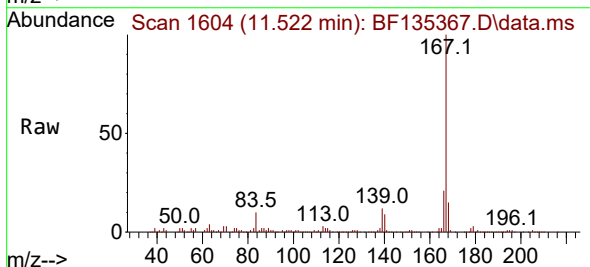
Tgt Ion:178 Resp: 31850
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 15.2 12.6 19.0

Manual Integrations
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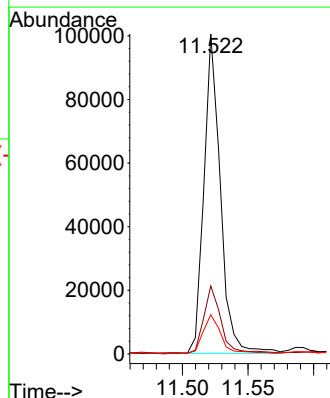
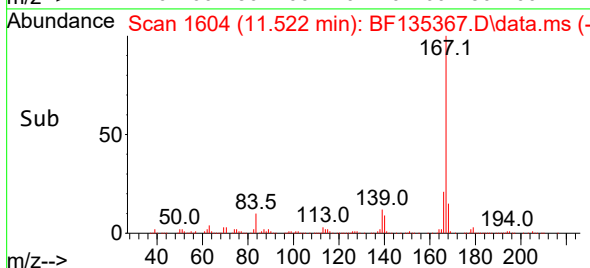
Reviewed By :Yogesh Patel 09/21/2023
 Supervised By :mohammad ahmed 09/21/2023

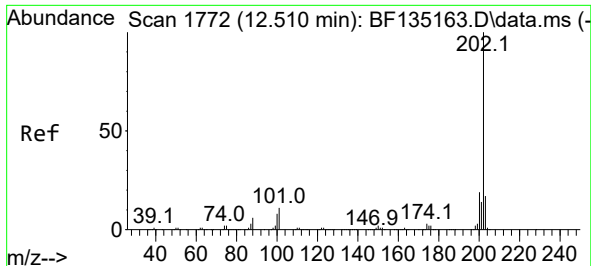


#73
 Carbazole
 Concen: 4.760 ng
 RT: 11.522 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135367.D
 Acq: 20 Sep 2023 20:18



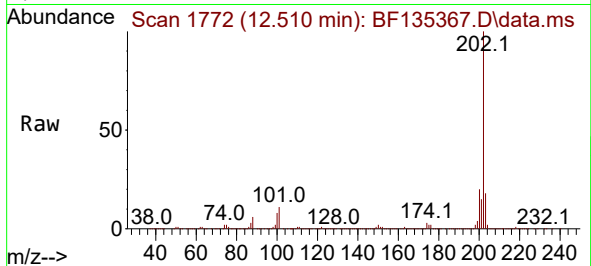
Tgt Ion:167 Resp: 87911
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.4 26.0
 139 12.3 10.6 15.8





#75
Fluoranthene
Concen: 52.409 ng
RT: 12.510 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

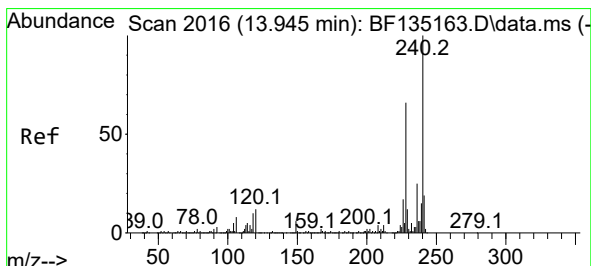
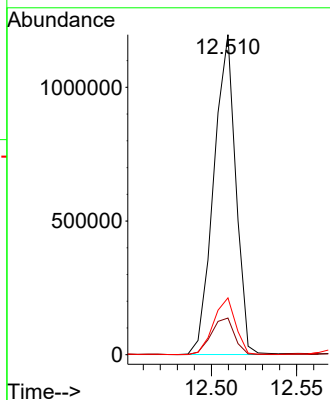
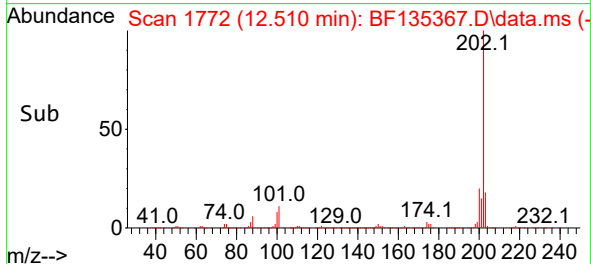
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL



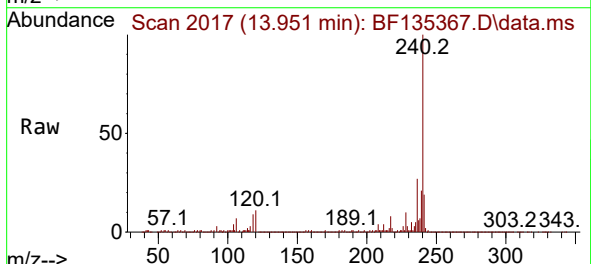
Tgt Ion:202 Resp: 1077802
Ion Ratio Lower Upper
202 100
101 11.5 0.0 31.3
203 17.8 0.0 37.4

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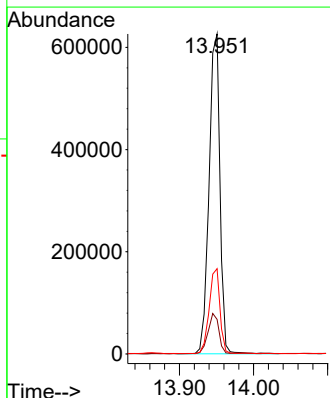
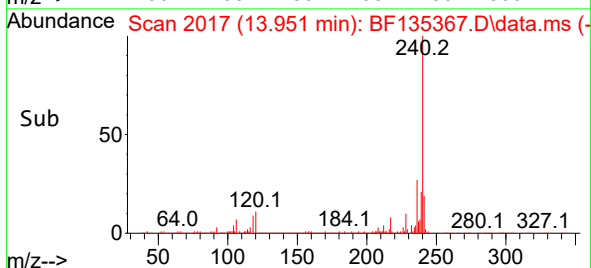
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

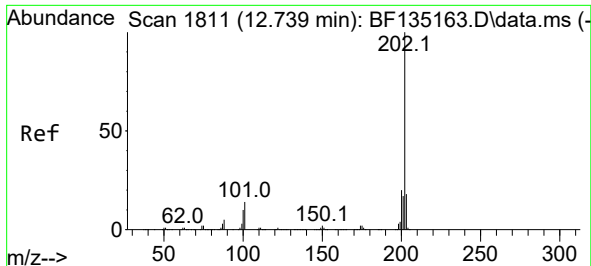


#76
Chrysene-d12
Concen: 40.000 ng
RT: 13.951 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18



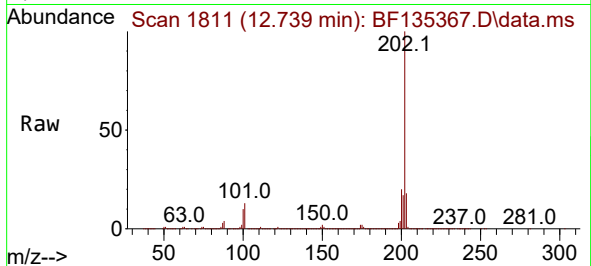
Tgt Ion:240 Resp: 638456
Ion Ratio Lower Upper
240 100
120 10.8 9.4 14.2
236 26.6 19.8 29.8





#78
Pyrene
Concen: 32.616 ng
RT: 12.739 min Scan# 1811
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

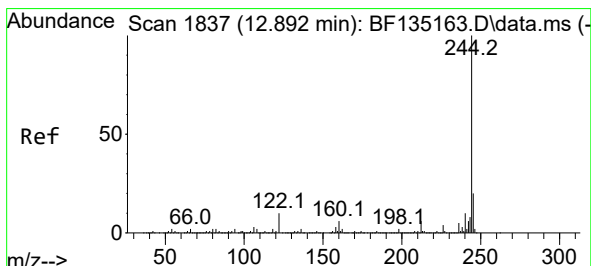
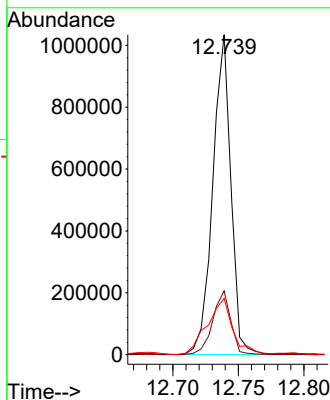
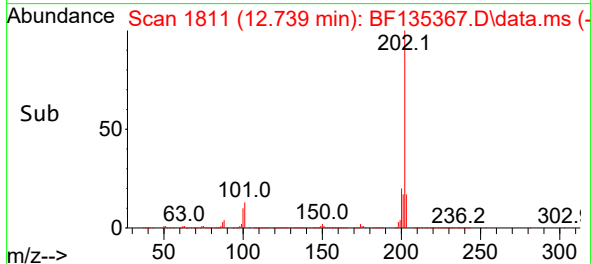
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL



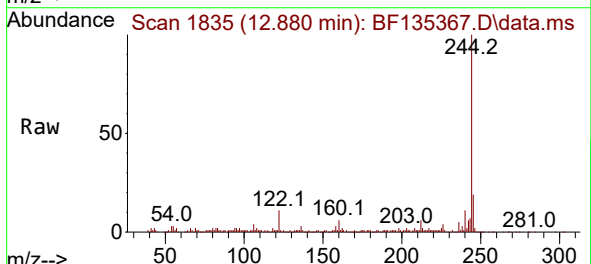
Tgt Ion:202 Resp: 99128
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 17.6 14.2 21.4

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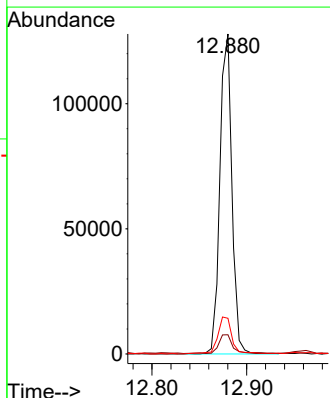
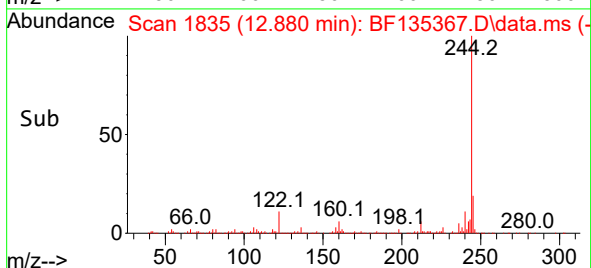
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

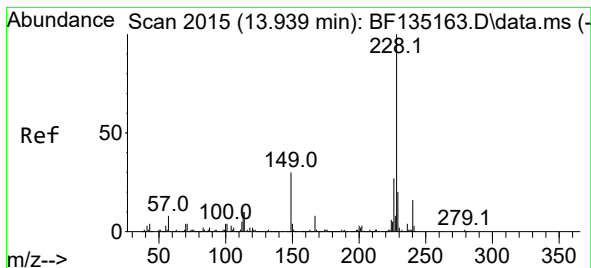


#79
Terphenyl-d14
Concen: 5.509 ng
RT: 12.880 min Scan# 1835
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18



Tgt Ion:244 Resp: 113451
Ion Ratio Lower Upper
244 100
212 6.0 5.1 7.7
122 11.1 7.9 11.9





#81

Benzo(a)anthracene

Concen: 22.781 ng

RT: 13.933 min Scan# 2014

Delta R.T. -0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

Tgt Ion:228 Resp: 46958

Ion Ratio Lower Upper

228 100

226 28.4 21.7 32.5

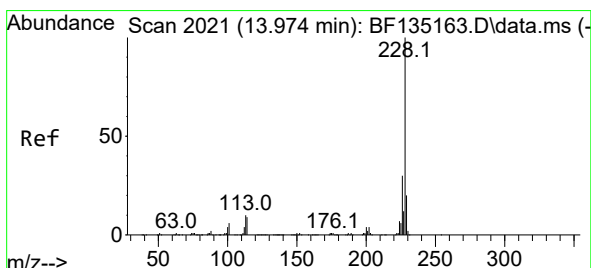
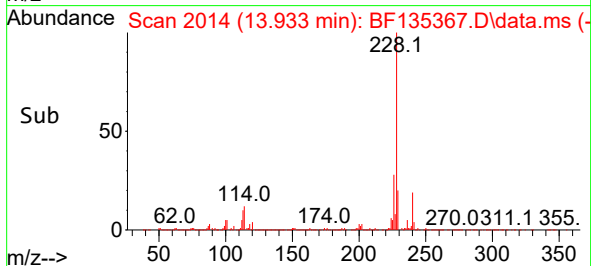
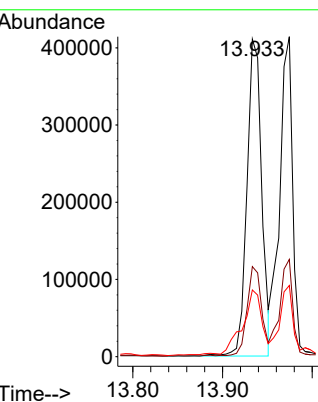
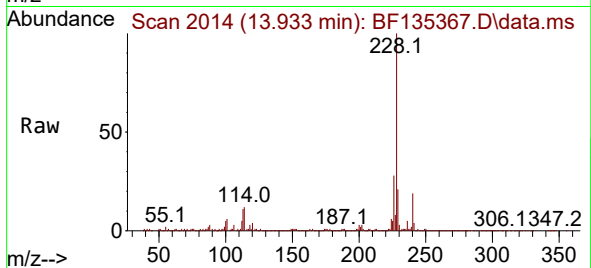
229 21.0 15.8 23.8

Manual Integrations

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#83

Chrysene

Concen: 20.281 ng

RT: 13.974 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

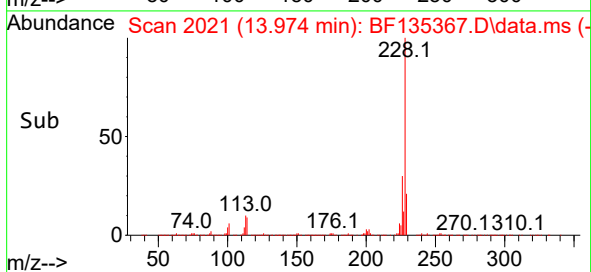
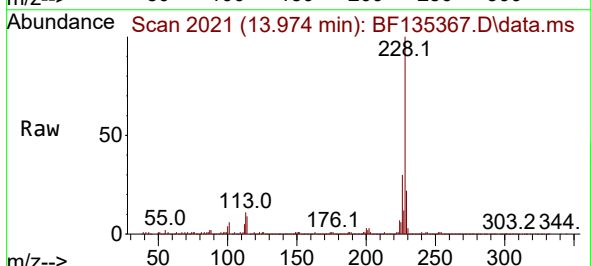
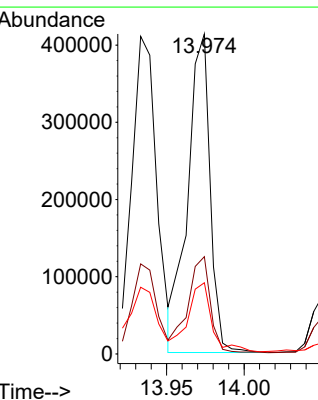
Tgt Ion:228 Resp: 415652

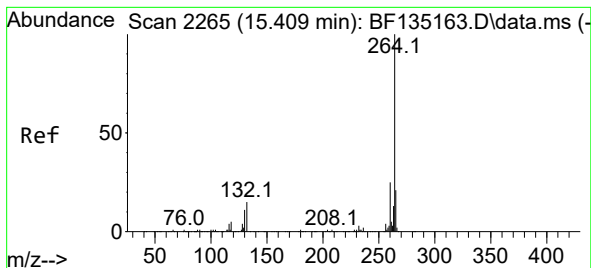
Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

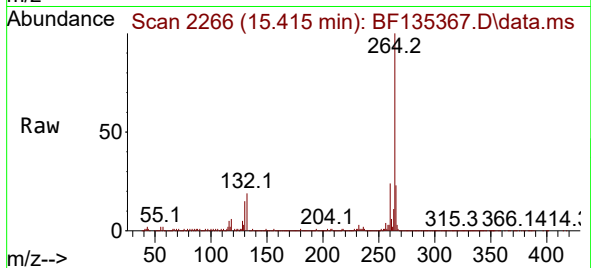
229 22.2 16.0 24.0





#86
Perylene-d12
Concen: 40.000 ng
RT: 15.415 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

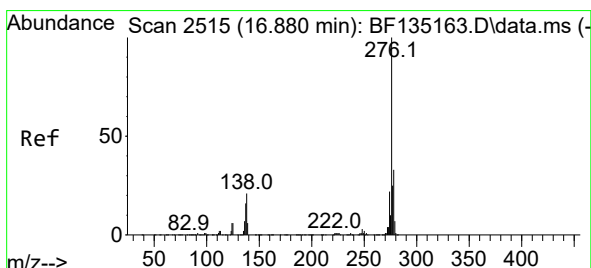
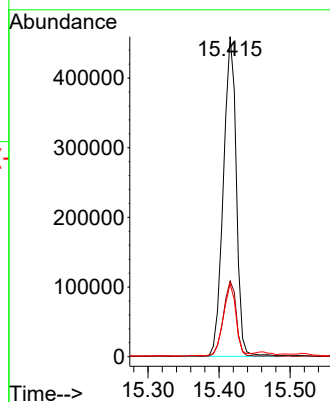
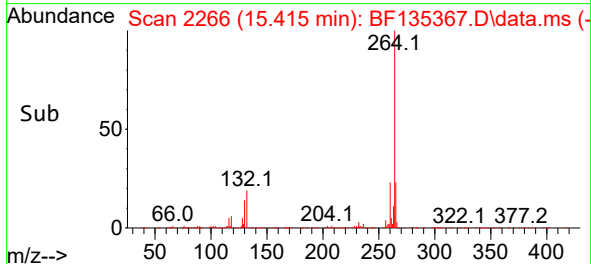
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL



Tgt Ion:264 Resp: 57730
Ion Ratio Lower Upper
264 100
260 23.6 19.8 29.6
265 22.7 17.0 25.4

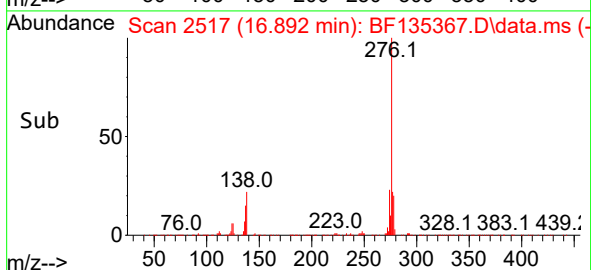
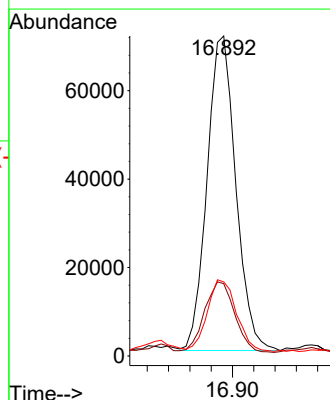
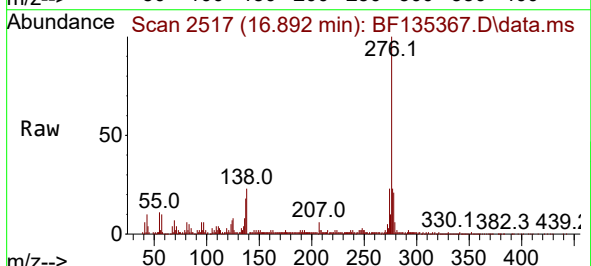
Manual Integrations
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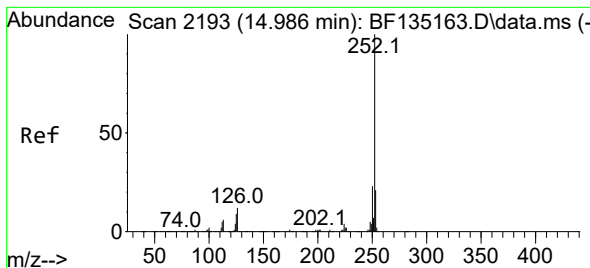
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.051 ng
RT: 16.892 min Scan# 2517
Delta R.T. 0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:276 Resp: 133446
Ion Ratio Lower Upper
276 100
138 23.6 19.2 28.8
277 22.9 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 25.667 ng m

RT: 14.986 min Scan# 2193

Delta R.T. 0.000 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

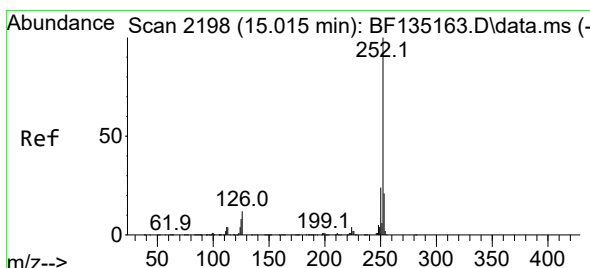
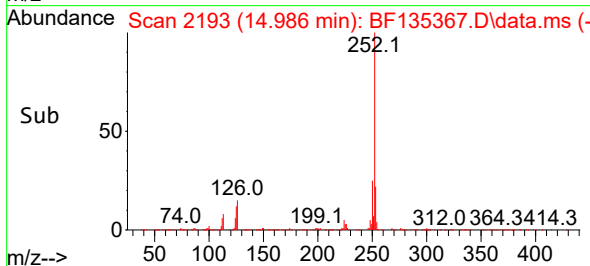
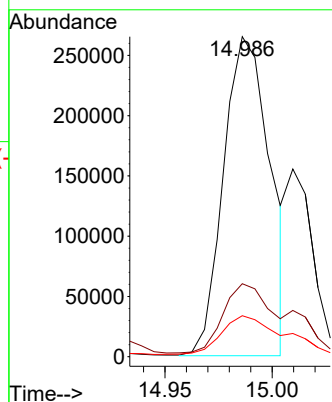
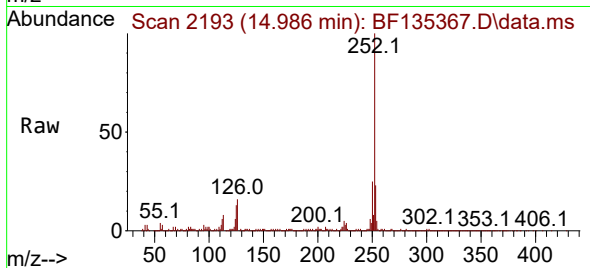
Tgt Ion:252 Resp: 401057
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.2 25.8
 125 12.8 7.1 10.7

Manual Integrations

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#89

Benzo(k)fluoranthene

Concen: 8.346 ng m

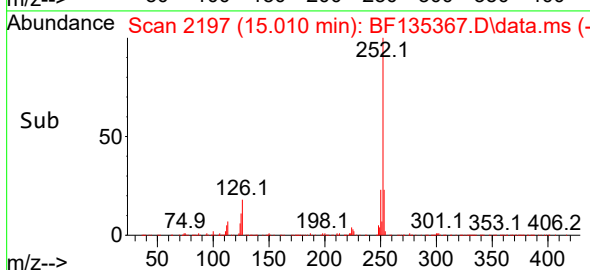
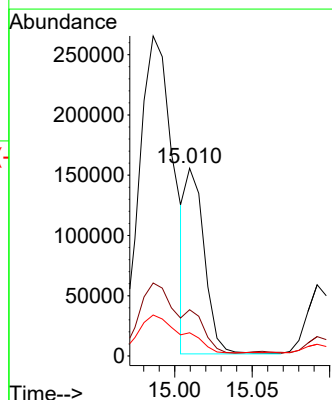
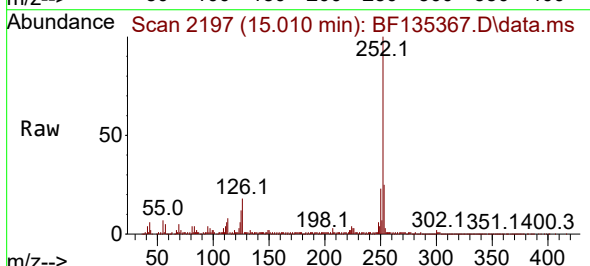
RT: 15.010 min Scan# 2197

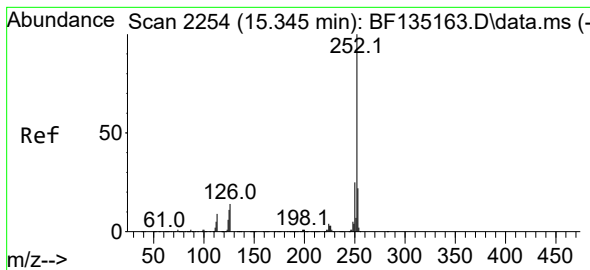
Delta R.T. -0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

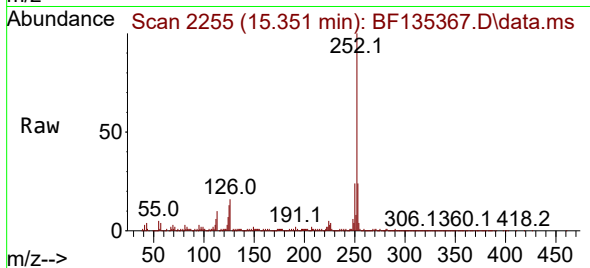
Tgt Ion:252 Resp: 128817
 Ion Ratio Lower Upper
 252 100
 253 24.7 17.4 26.0
 125 12.3 7.2 10.8





#90
Benzo(a)pyrene
Concen: 18.618 ng
RT: 15.351 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

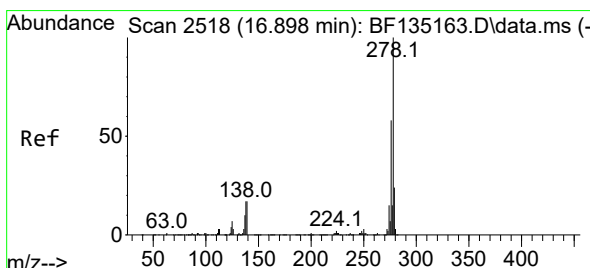
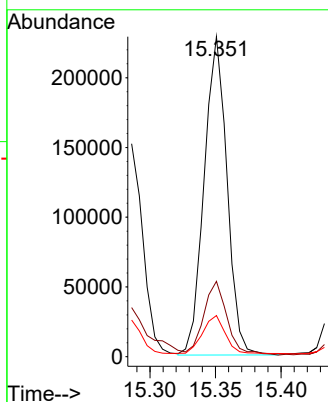
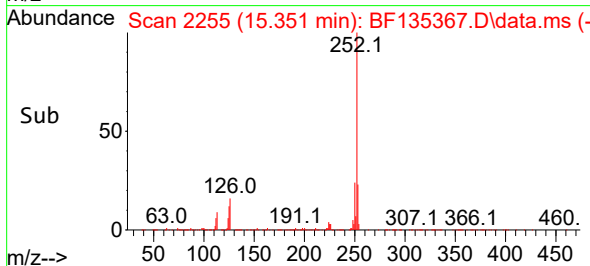
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL



Tgt Ion:252 Resp: 27743
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 12.8 9.2 13.8

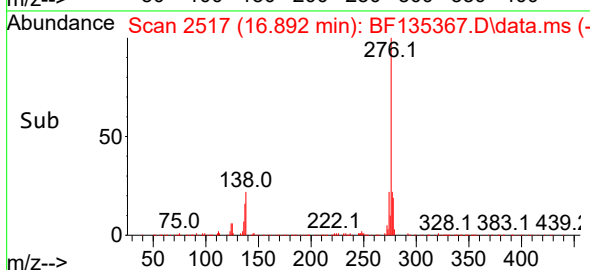
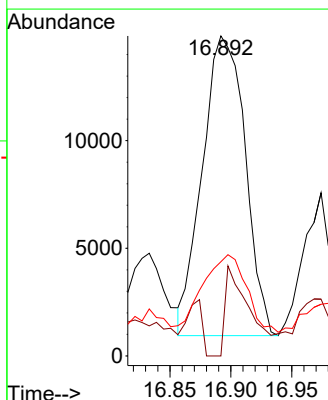
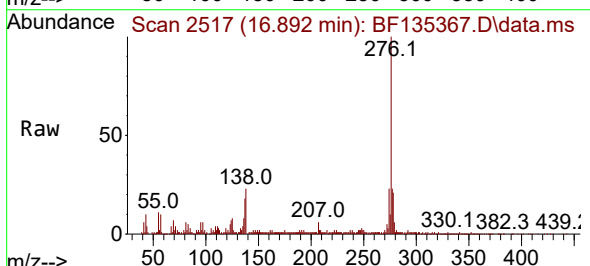
Manual Integrations
APPROVED

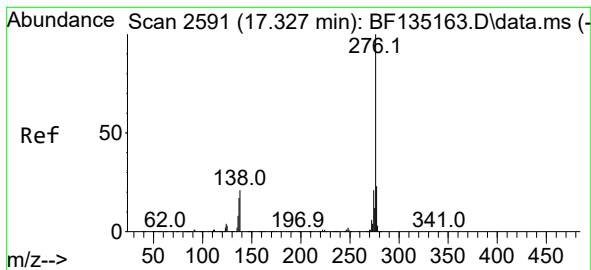
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.201 ng
RT: 16.892 min Scan# 2517
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:278 Resp: 34089
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0#
279 29.5 19.0 28.6#





#92

Benzo(g,h,i)perylene

Concen: 7.865 ng

RT: 17.339 min Scan# 2593

Delta R.T. 0.012 min

Lab File: BF135367.D

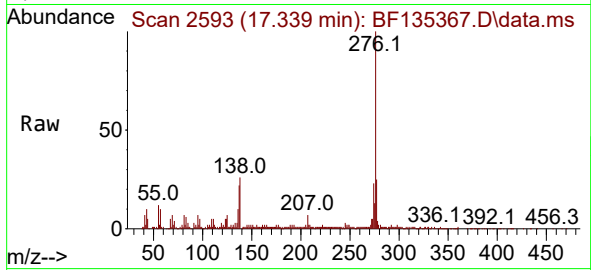
Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL



Tgt Ion: 276 Resp: 12719

Ion Ratio Lower Upper

276 100

277 24.9 18.8 28.2

138 25.8 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023

