

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136299.D
 Acq On : 29 Nov 2023 23:30
 Operator : CG\JU
 Sample : 05253-04DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-3(195FT)(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Nov 30 00:31:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	123526	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	467194	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	193812	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	304790	20.000	ng	0.00
76) Chrysene-d12	13.986	240	279844	20.000	ng	0.00
86) Perylene-d12	15.468	264	237308	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	143535	16.173	ng	-0.01
7) Phenol-d6	6.428	99	174777	15.750	ng	-0.02
23) Nitrobenzene-d5	7.357	82	101822	11.517	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	31303	13.211	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	199097	13.121	ng	-0.01
79) Terphenyl-d14	12.927	244	192406	7.931	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	2886350	109.915	ng	99
37) 2-Methylnaphthalene	8.798	142	917297	55.686	ng	100
38) 1-Methylnaphthalene	8.892	142	595024	37.029	ng	94
46) 1,1'-Biphenyl	9.257	154	172191	10.075	ng	96
49) Acenaphthylene	9.698	152	130017	6.864	ng	# 93
52) Acenaphthene	9.869	154	307420	25.683	ng	95
55) Dibenzofuran	10.039	168	37788	2.122	ng	# 79
58) Fluorene	10.386	166	233771	16.732	ng	97
71) Phenanthrene	11.357	178	1164693	67.989	ng	100
72) Anthracene	11.404	178	288570	16.798	ng	97
75) Fluoranthene	12.551	202	492234	28.305	ng	96
78) Pyrene	12.780	202	883313	28.821	ng	98
81) Benzo(a)anthracene	13.974	228	348465m	16.764	ng	
83) Chrysene	14.010	228	301156	15.006	ng	96
87) Indeno(1,2,3-cd)pyrene	16.962	276	66476	6.218	ng	98
88) Benzo(b)fluoranthene	15.033	252	222481m	13.363	ng	
89) Benzo(k)fluoranthene	15.057	252	56330m	3.562	ng	
90) Benzo(a)pyrene	15.404	252	218090	16.024	ng	98
91) Dibenzo(a,h)anthracene	16.974	278	22583	4.210	ng	93
92) Benzo(g,h,i)perylene	17.415	276	71413	6.702	ng	96

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

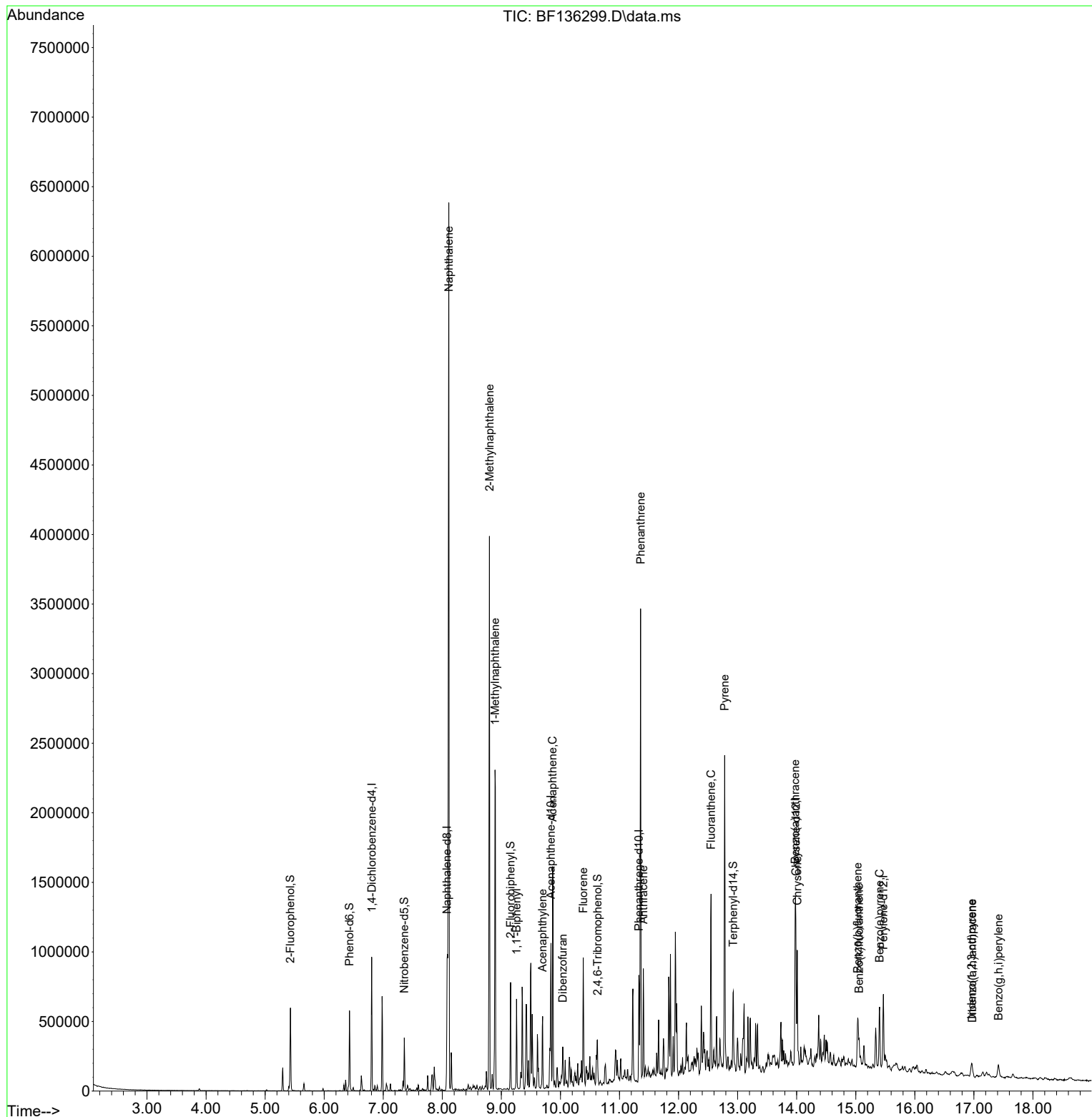
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
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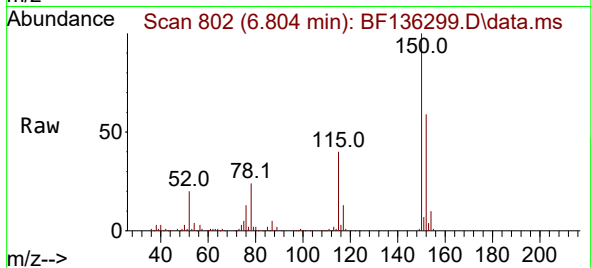
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

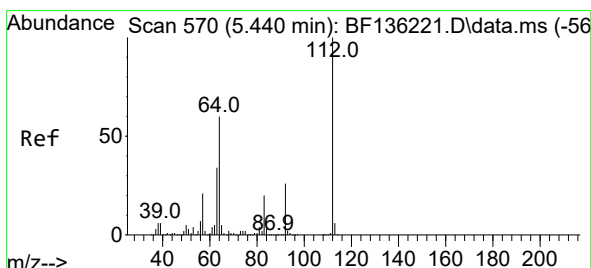
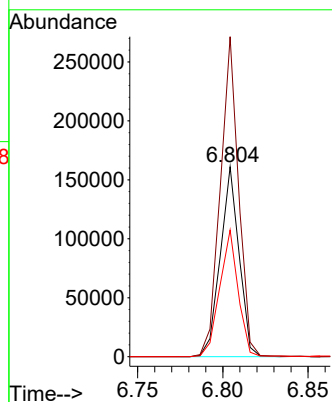
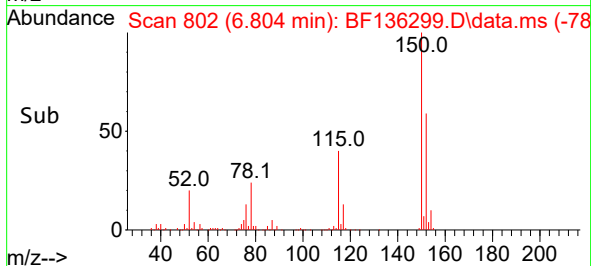
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion:152 Resp: 123520
Ion Ratio Lower Upper
152 100
150 168.5 137.8 206.8
115 66.7 52.7 79.1

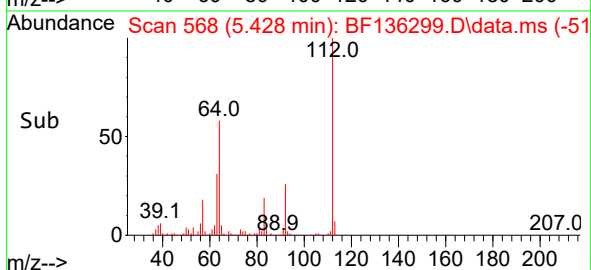
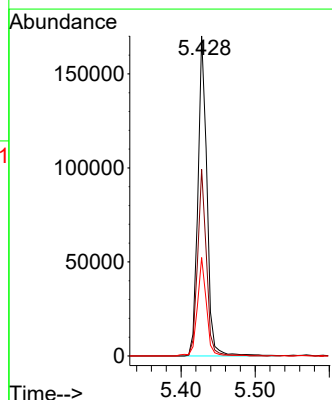
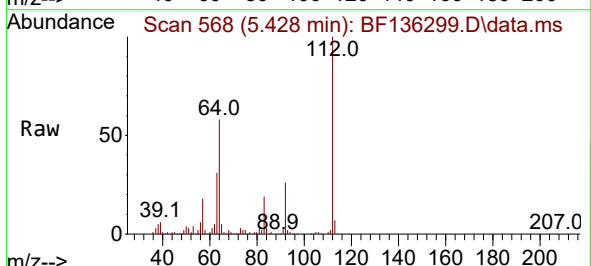
Manual Integrations
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Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 16.173 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

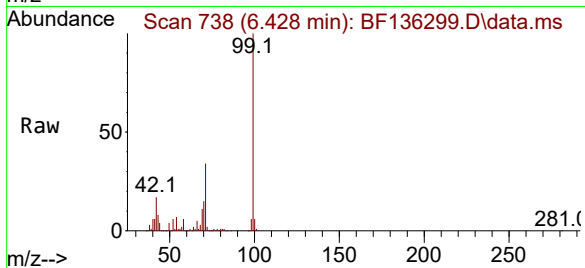
Tgt Ion:112 Resp: 143535
Ion Ratio Lower Upper
112 100
64 58.3 48.2 72.4
63 30.8 27.0 40.6





#7
Phenol-d6
Concen: 15.750 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

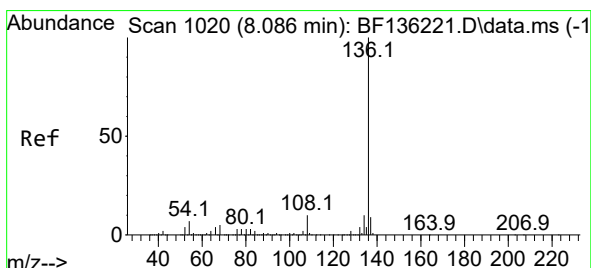
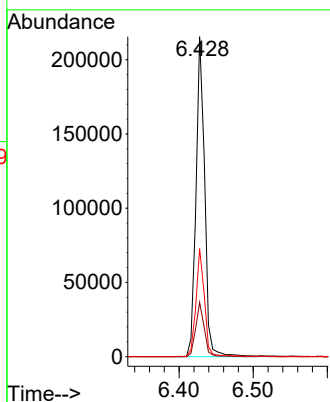
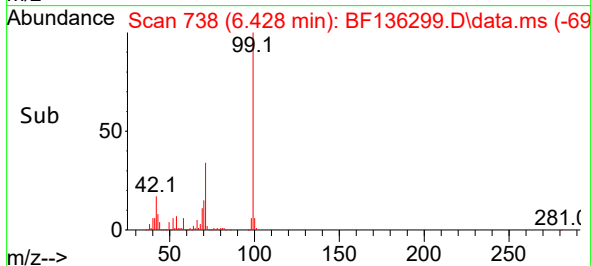
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion: 99 Resp: 17477
Ion Ratio Lower Upper
99 100
42 17.0 15.0 22.6
71 33.7 28.9 43.3

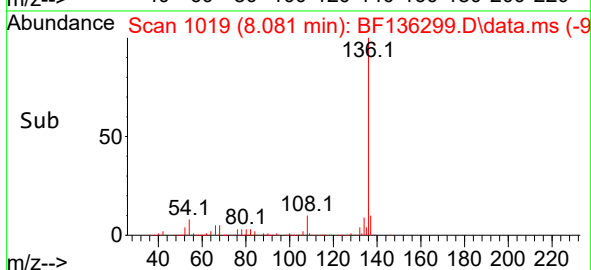
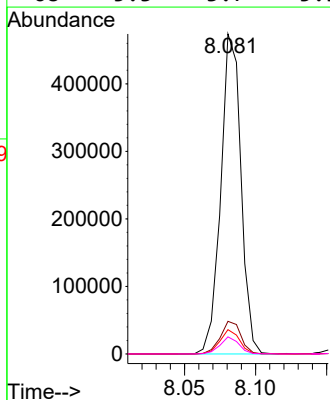
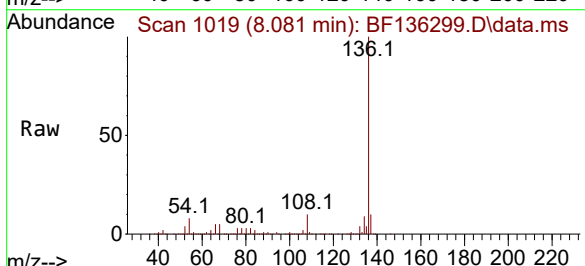
Manual Integrations
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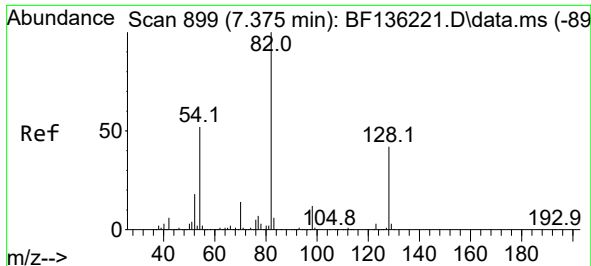
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

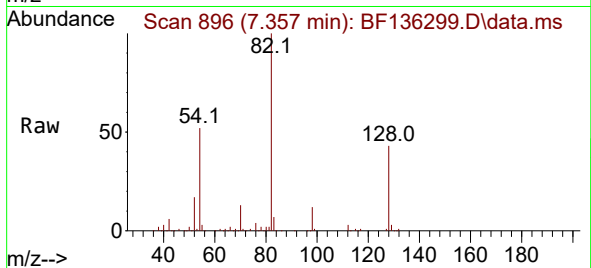
Tgt Ion:136 Resp: 467194
Ion Ratio Lower Upper
136 100
137 10.2 7.4 11.2
54 7.6 5.5 8.3
68 5.3 3.7 5.5





#23
Nitrobenzene-d5
Concen: 11.517 ng
RT: 7.357 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

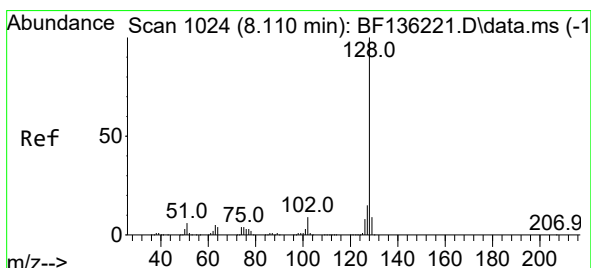
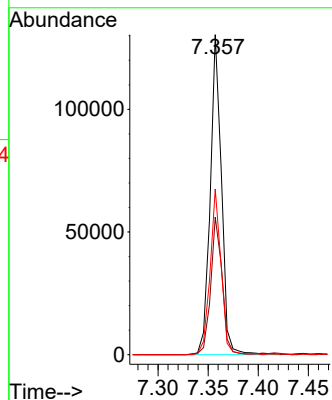
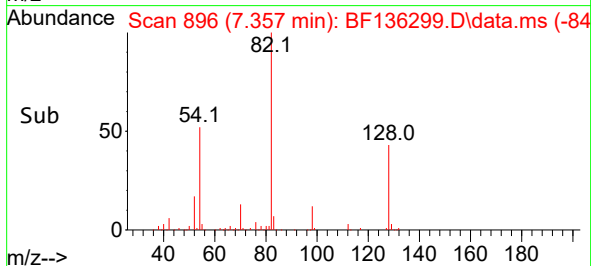
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion: 82 Resp: 10182
Ion Ratio Lower Upper
82 100
128 43.0 33.4 50.2
54 51.8 41.7 62.5

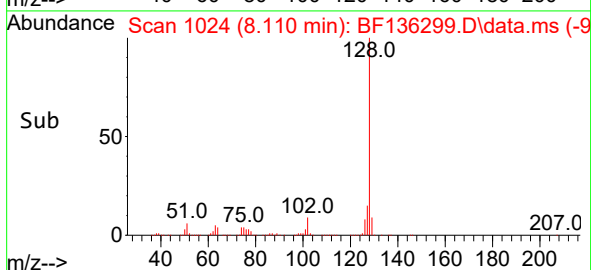
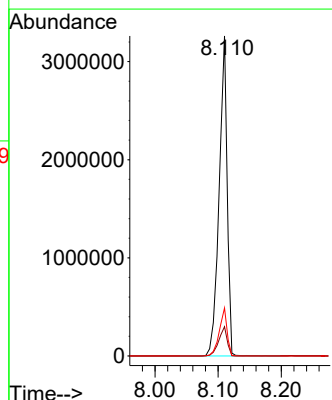
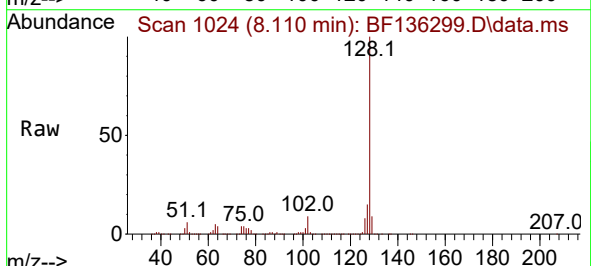
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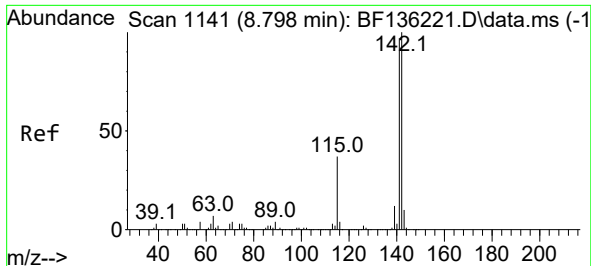
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#31
Naphthalene
Concen: 109.915 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.000 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Tgt Ion:128 Resp: 2886350
Ion Ratio Lower Upper
128 100
129 9.2 7.3 10.9
127 15.0 11.8 17.6





#37

2-Methylnaphthalene

Concen: 55.686 ng

RT: 8.798 min Scan# 1141

Delta R.T. 0.000 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

Tgt Ion:142 Resp: 91729

Ion Ratio Lower Upper

142 100

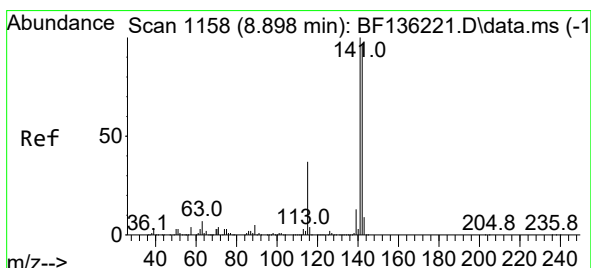
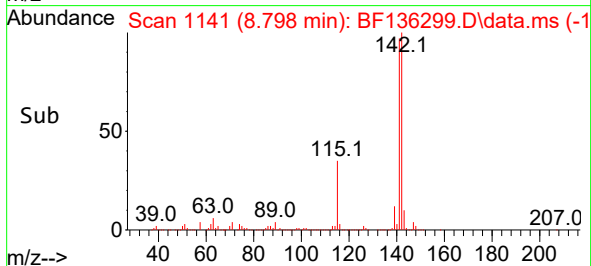
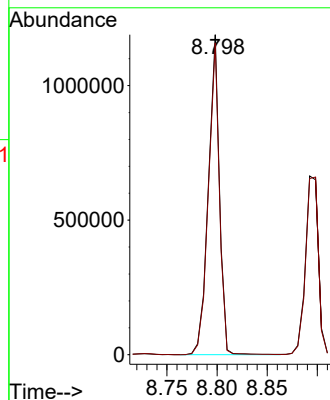
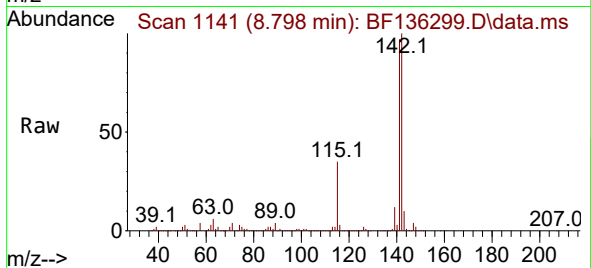
141 97.5 77.8 116.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#38

1-Methylnaphthalene

Concen: 37.029 ng

RT: 8.892 min Scan# 1157

Delta R.T. -0.006 min

Lab File: BF136299.D

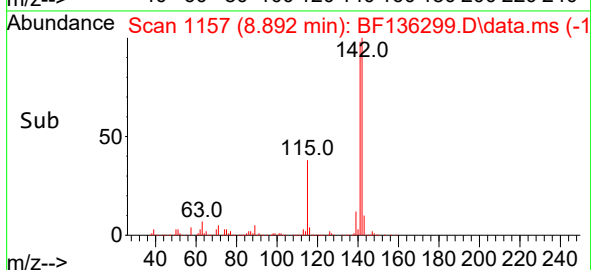
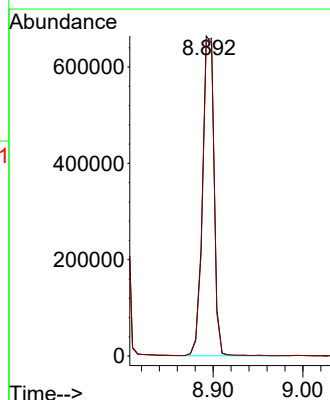
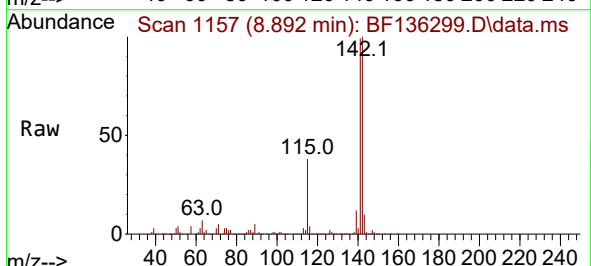
Acq: 29 Nov 2023 23:30

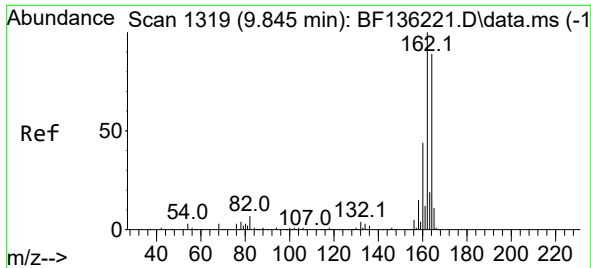
Tgt Ion:142 Resp: 595024

Ion Ratio Lower Upper

142 100

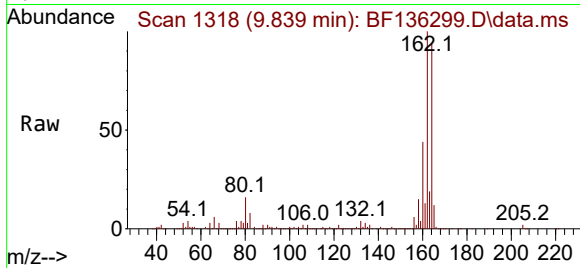
141 98.5 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

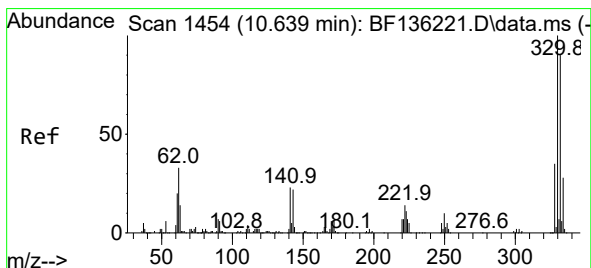
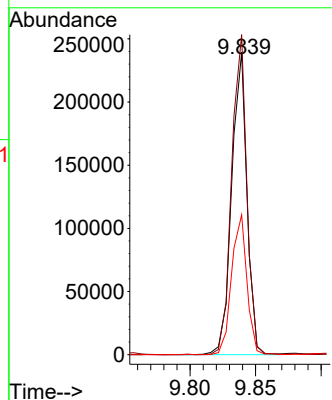
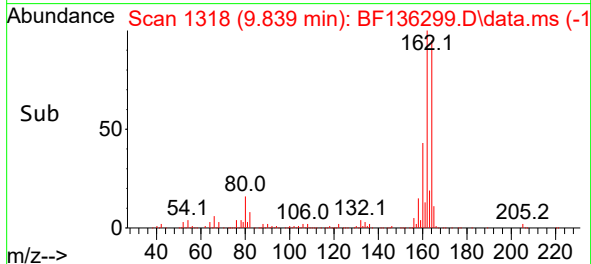
Instrument :
BNA_F
ClientSampleId :
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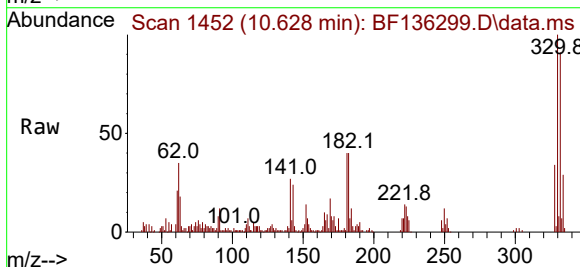
Tgt Ion:164 Resp: 19381
Ion Ratio Lower Upper
164 100
162 105.9 89.5 134.3
160 46.3 39.6 59.4

Manual Integrations
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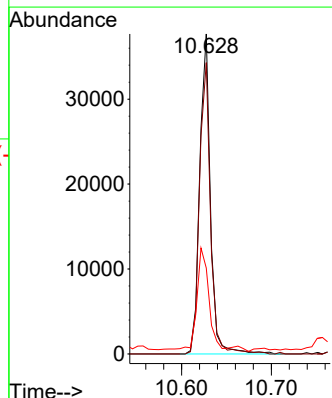
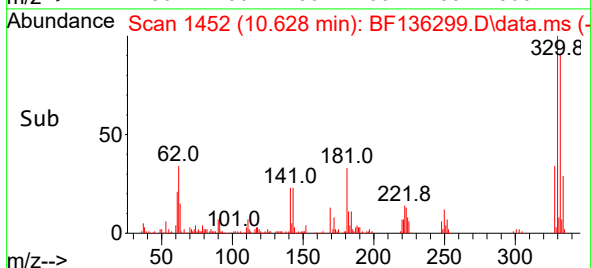
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

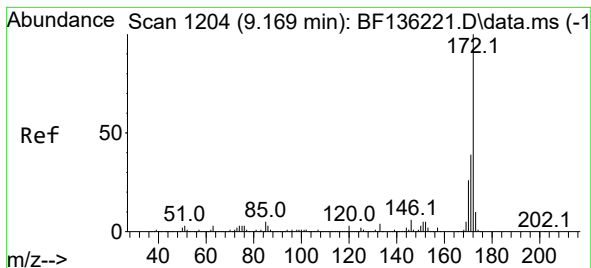


#42
2,4,6-Tribromophenol
Concen: 13.211 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30



Tgt Ion:330 Resp: 31303
Ion Ratio Lower Upper
330 100
332 93.6 73.0 109.6
141 34.5 24.2 36.2





#45

2-Fluorobiphenyl

Concen: 13.121 ng

RT: 9.157 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

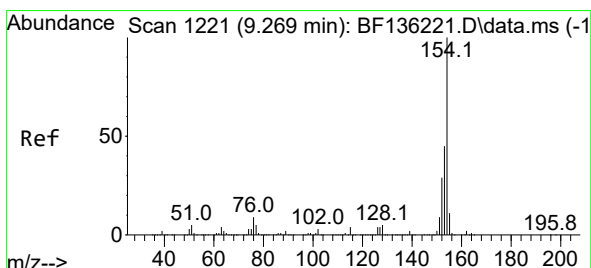
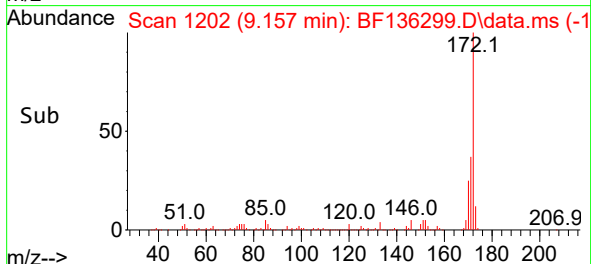
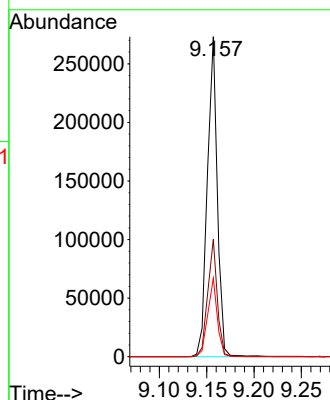
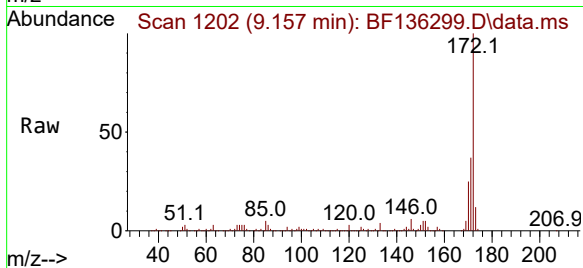
Tgt Ion:172 Resp: 199097
 Ion Ratio Lower Upper
 172 100
 171 36.7 31.5 47.3
 170 24.5 20.8 31.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#46

1,1'-Biphenyl

Concen: 10.075 ng

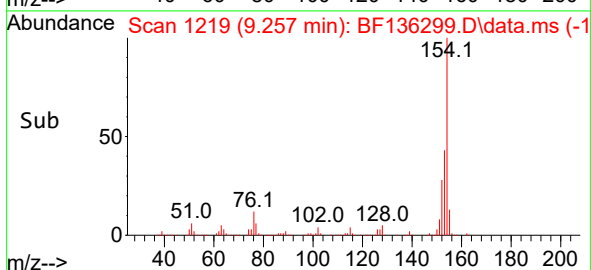
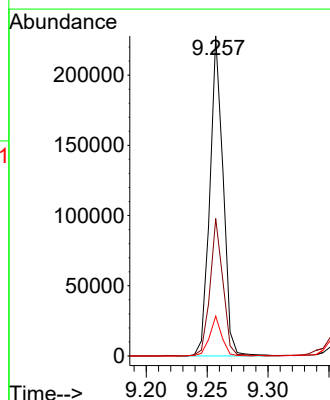
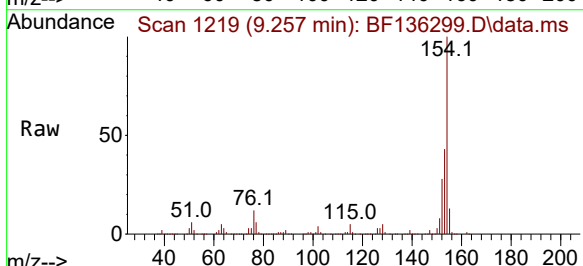
RT: 9.257 min Scan# 1219

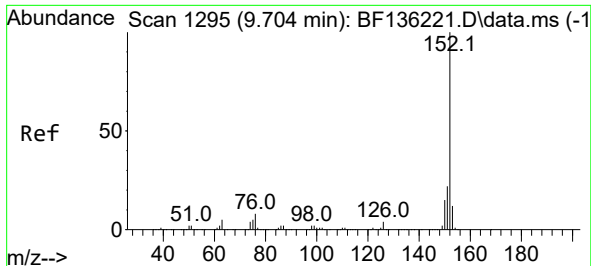
Delta R.T. -0.012 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Tgt Ion:154 Resp: 172191
 Ion Ratio Lower Upper
 154 100
 153 42.9 24.6 64.6
 76 12.4 0.0 29.4





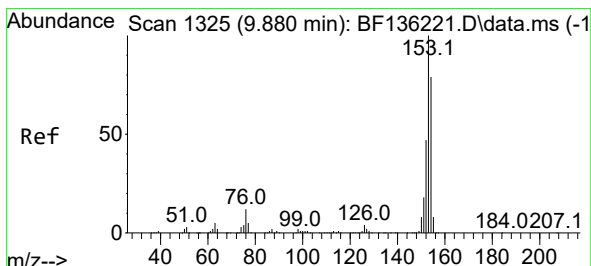
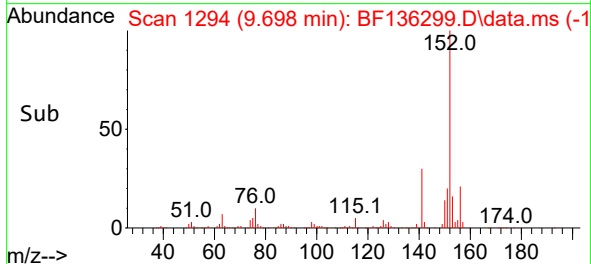
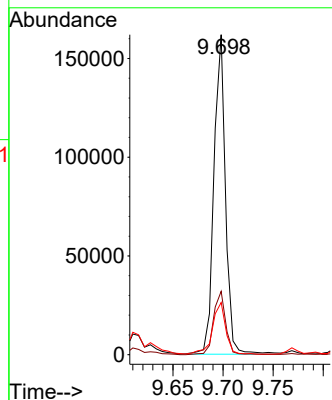
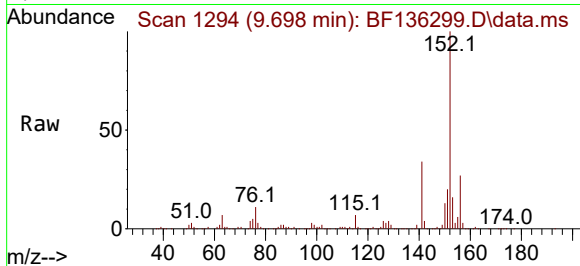
#49
Acenaphthylene
Concen: 6.864 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL

Tgt Ion:152 Resp: 130017
Ion Ratio Lower Upper
152 100
151 19.8 17.5 26.3
153 16.3 9.6 14.4

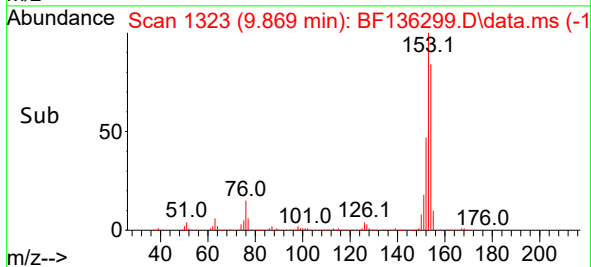
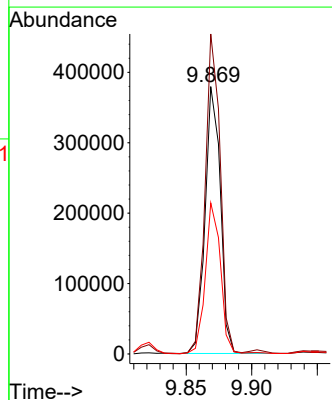
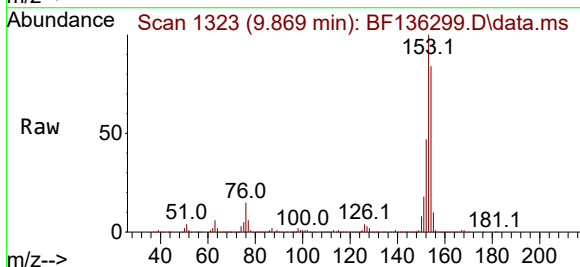
Manual Integrations
APPROVED

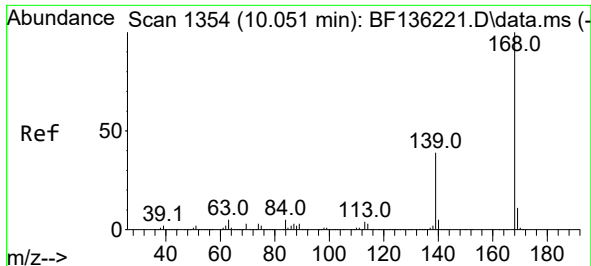
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#52
Acenaphthene
Concen: 25.683 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

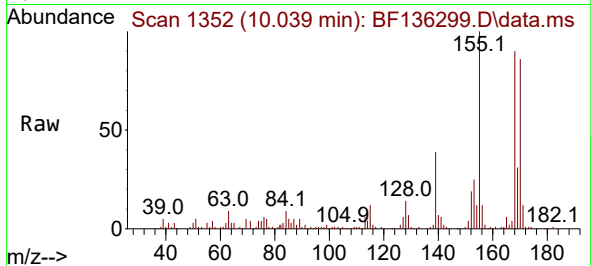
Tgt Ion:154 Resp: 307420
Ion Ratio Lower Upper
154 100
153 119.7 100.8 151.2
152 56.5 47.0 70.6





#55
Dibenzenofuran
Concen: 2.122 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

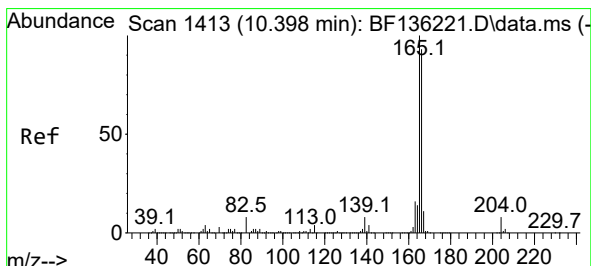
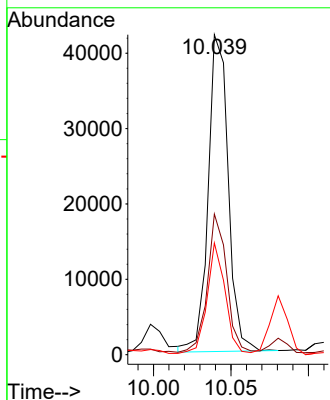
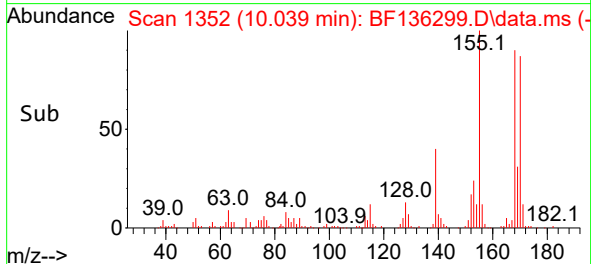
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



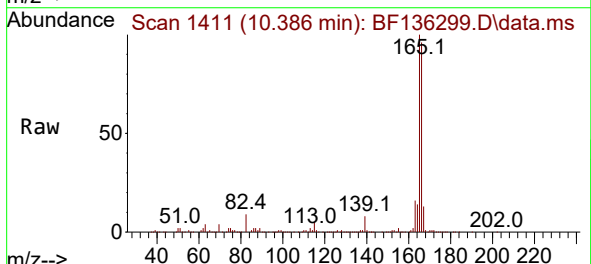
Tgt Ion:168 Resp: 3778
Ion Ratio Lower Upper
168 100
139 44.0 30.9 46.3
169 34.9 9.1 13.7

Manual Integrations
APPROVED

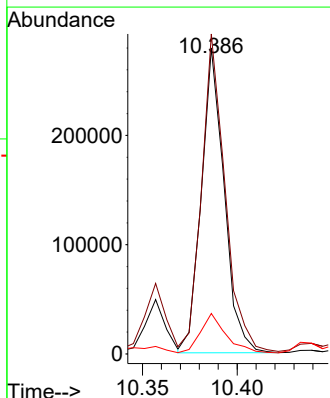
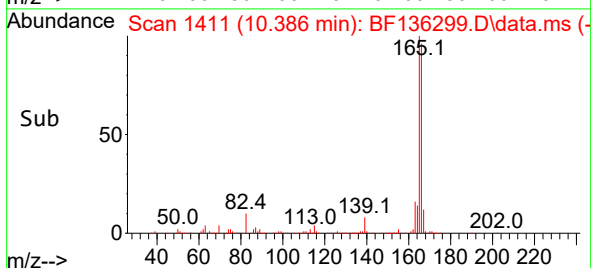
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

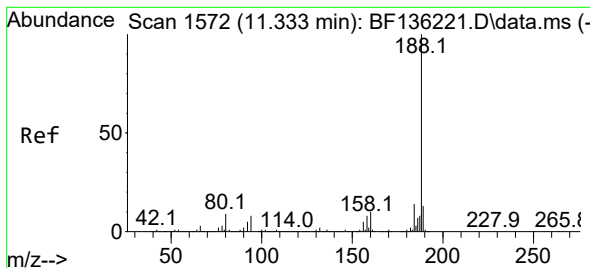


#58
Fluorene
Concen: 16.732 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30



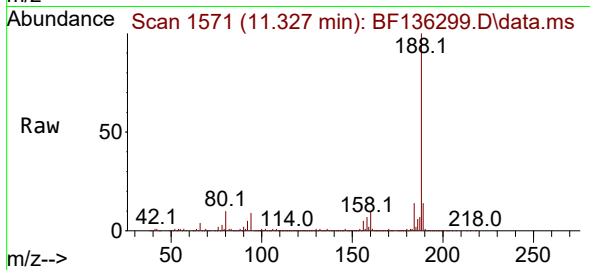
Tgt Ion:166 Resp: 233771
Ion Ratio Lower Upper
166 100
165 104.5 86.2 129.4
167 13.2 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

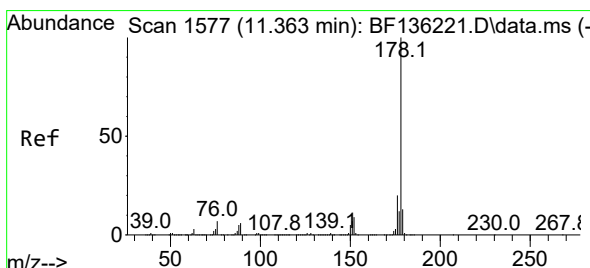
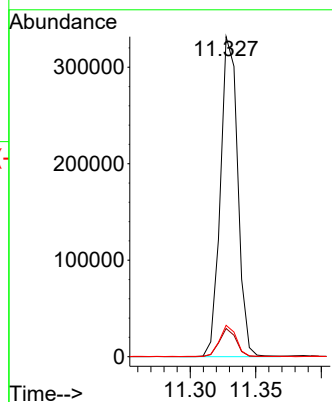
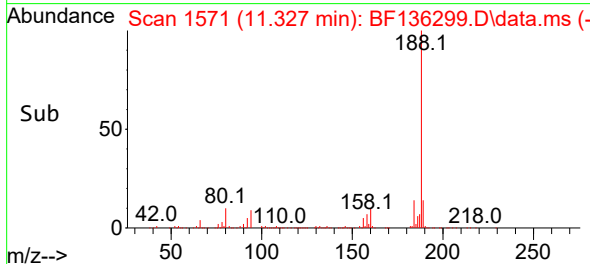
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion:188 Resp: 304790
Ion Ratio Lower Upper
188 100
94 8.8 6.7 10.1
80 9.8 7.2 10.8

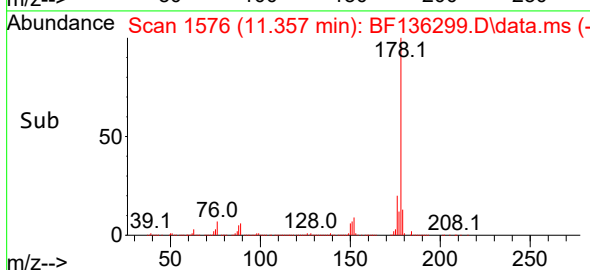
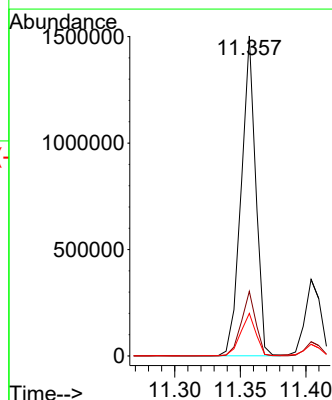
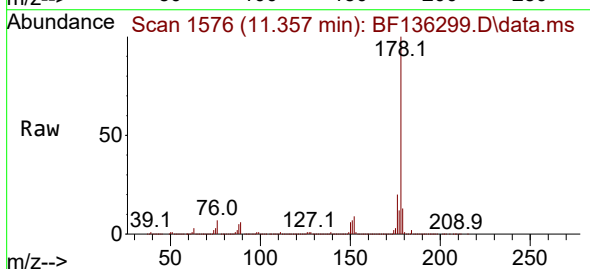
Manual Integrations
APPROVED

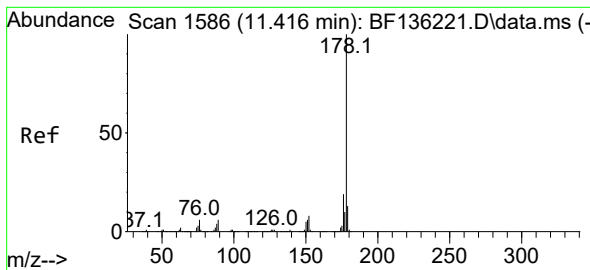
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#71
Phenanthrene
Concen: 67.989 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

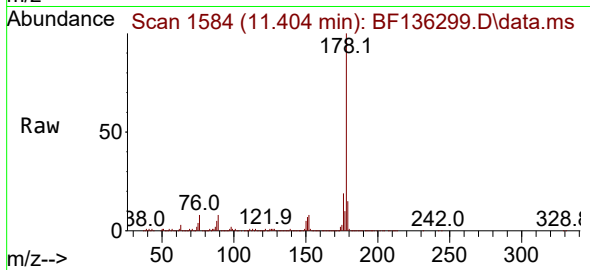
Tgt Ion:178 Resp: 1164693
Ion Ratio Lower Upper
178 100
176 20.2 16.2 24.2
179 13.3 10.3 15.5





#72
 Anthracene
 Concen: 16.798 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF136299.D
 Acq: 29 Nov 2023 23:30

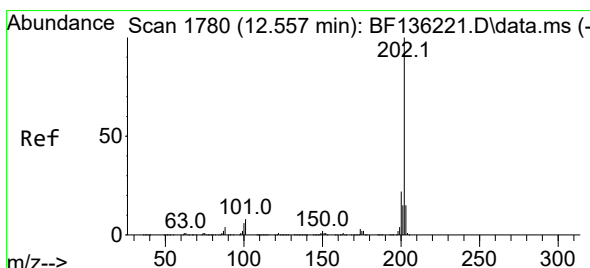
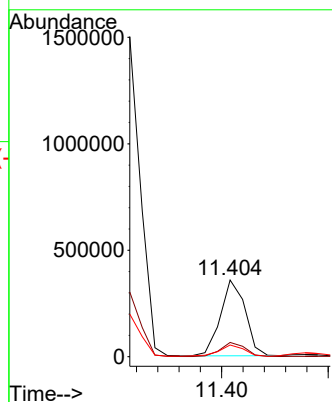
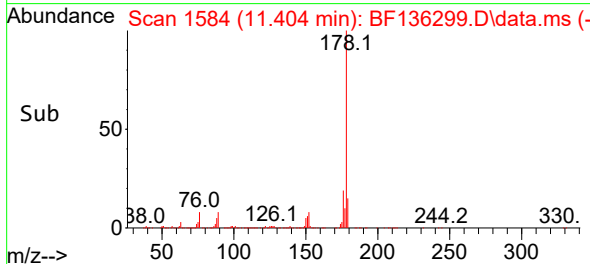
Instrument :
 BNA_F
 ClientSampleId :
 L-3(195FT)(0-5)DL



Tgt Ion:178 Resp: 288570
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.5 23.3
 179 15.4 10.5 15.7

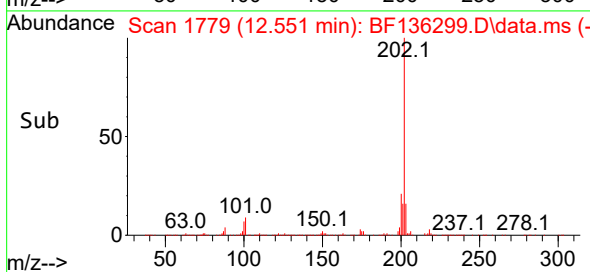
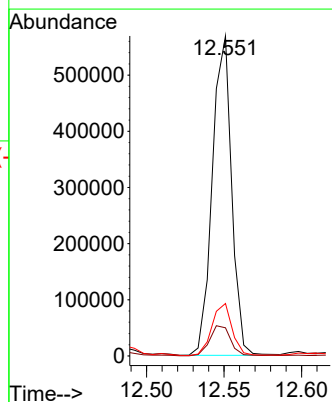
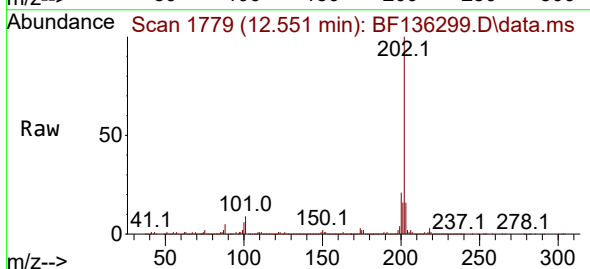
Manual Integrations
 APPROVED

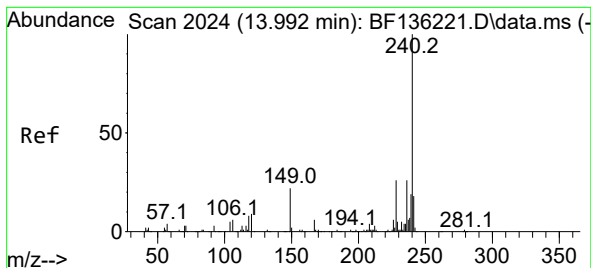
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#75
 Fluoranthene
 Concen: 28.305 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.006 min
 Lab File: BF136299.D
 Acq: 29 Nov 2023 23:30

Tgt Ion:202 Resp: 492234
 Ion Ratio Lower Upper
 202 100
 101 8.8 0.0 27.8
 203 16.4 0.0 34.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

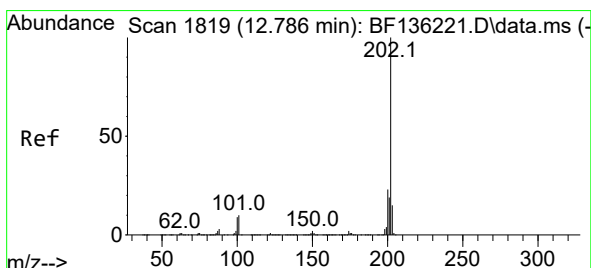
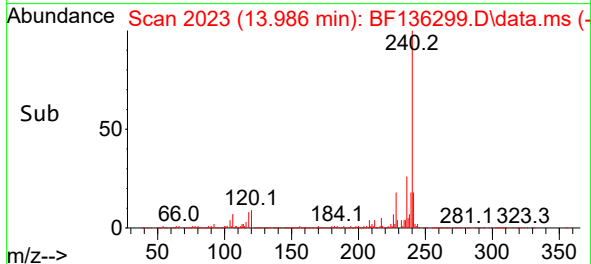
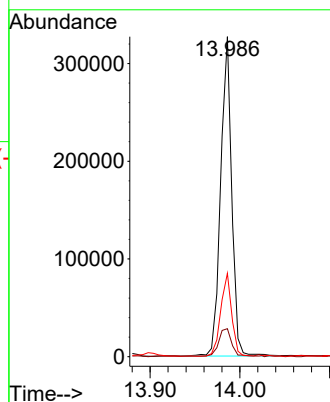
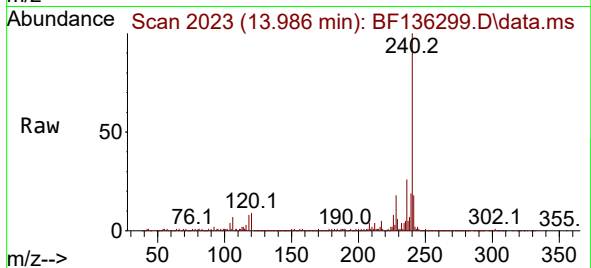
Tgt Ion:240 Resp: 279844
 Ion Ratio Lower Upper
 240 100
 120 8.8 7.4 11.2
 236 26.1 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#78

Pyrene

Concen: 28.821 ng

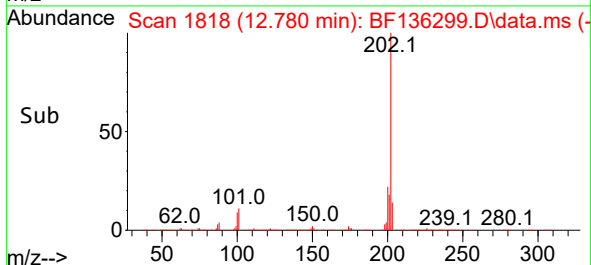
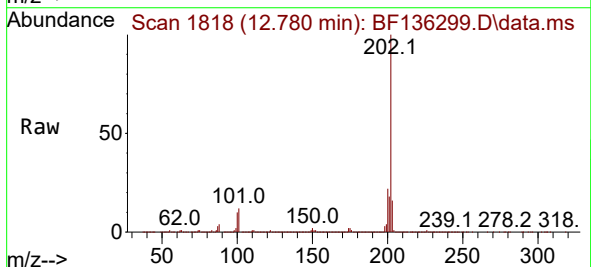
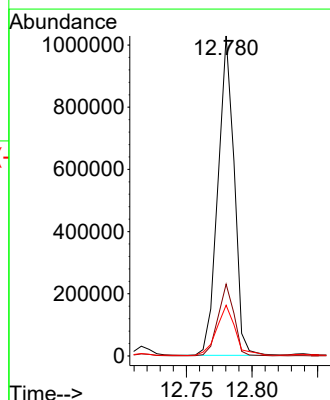
RT: 12.780 min Scan# 1818

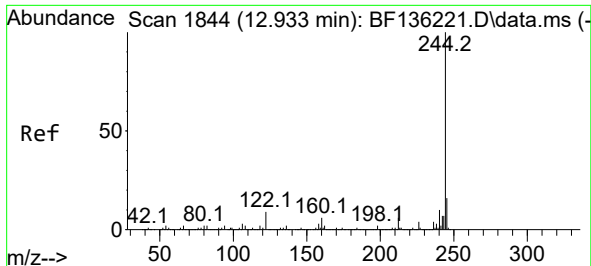
Delta R.T. -0.006 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

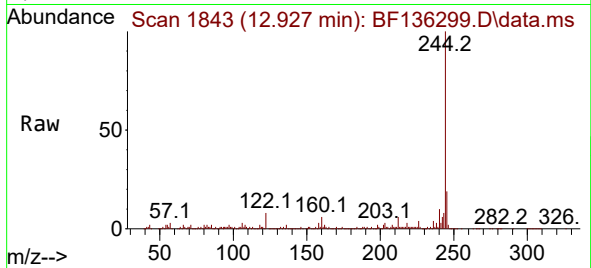
Tgt Ion:202 Resp: 883313
 Ion Ratio Lower Upper
 202 100
 200 22.5 18.4 27.6
 203 15.9 11.8 17.6





#79
Terphenyl-d14
Concen: 7.931 ng
RT: 12.927 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

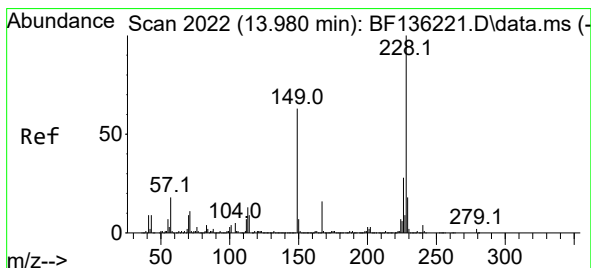
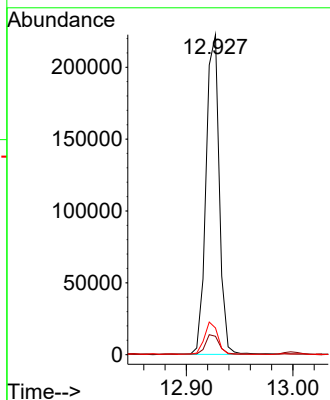
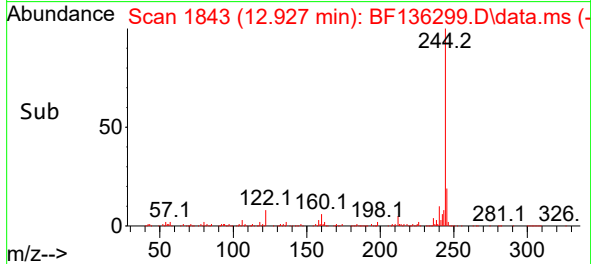
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion:244 Resp: 192400
Ion Ratio Lower Upper
244 100
212 5.7 4.6 7.0
122 8.4 7.3 10.9

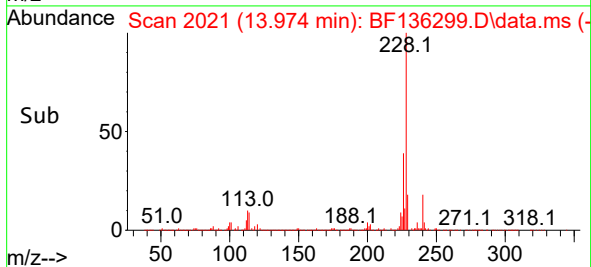
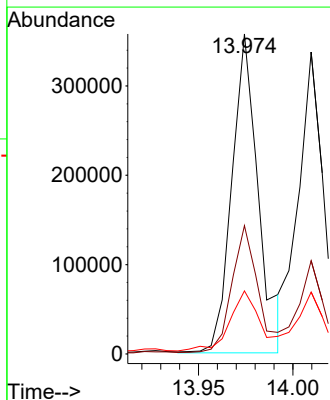
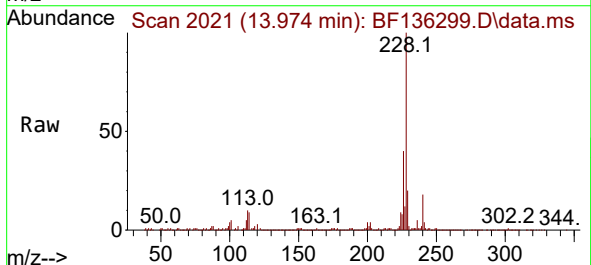
Manual Integrations
APPROVED

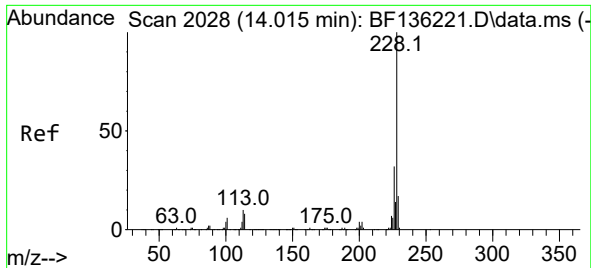
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#81
Benzo(a)anthracene
Concen: 16.764 ng m
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Tgt Ion:228 Resp: 348465
Ion Ratio Lower Upper
228 100
226 40.1 22.6 34.0#
229 19.7 14.0 21.0





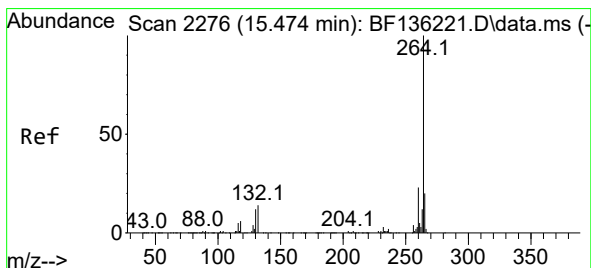
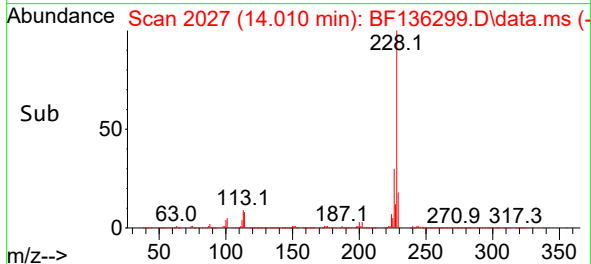
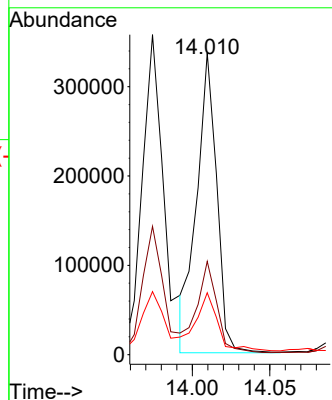
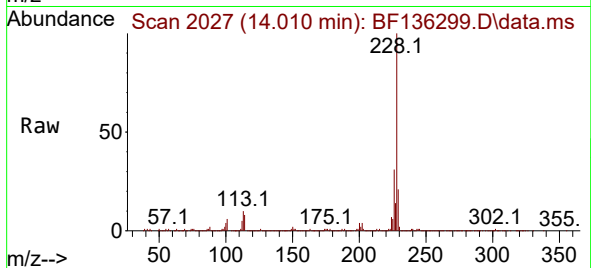
#83
Chrysene
Concen: 15.006 ng
RT: 14.010 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL

Tgt Ion:228 Resp: 301150
Ion Ratio Lower Upper
228 100
226 30.9 25.5 38.3
229 20.5 13.9 20.9

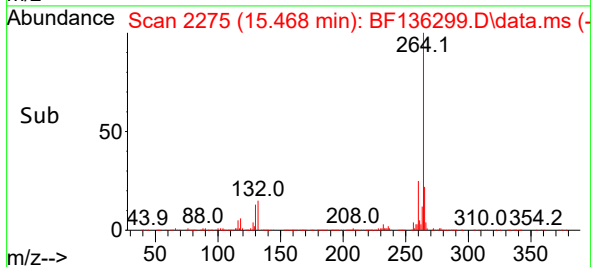
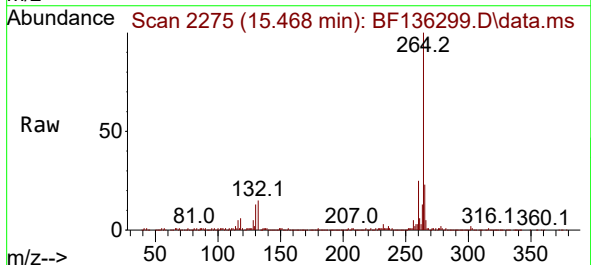
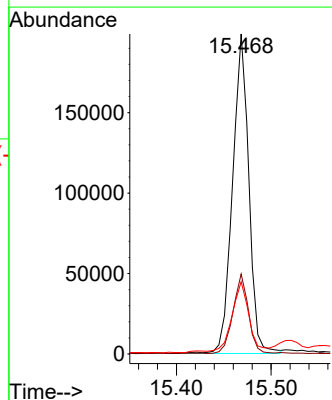
Manual Integrations
APPROVED

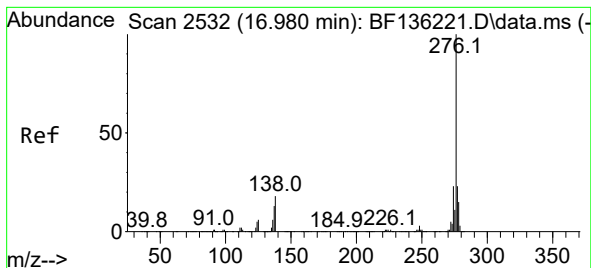
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Tgt Ion:264 Resp: 237308
Ion Ratio Lower Upper
264 100
260 25.0 18.6 27.8
265 22.6 15.7 23.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.218 ng

RT: 16.962 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

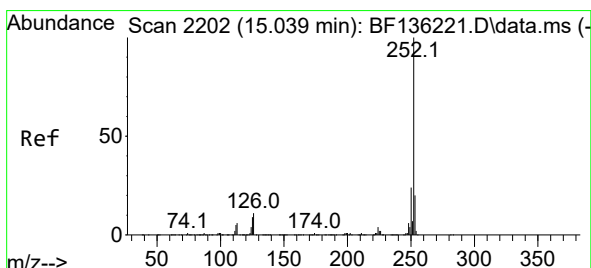
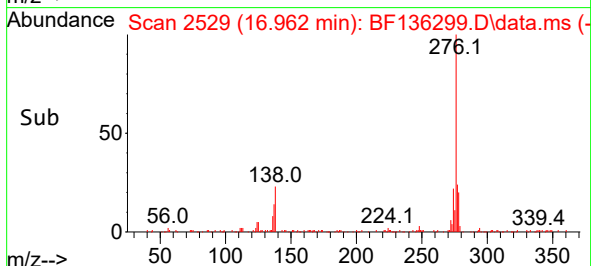
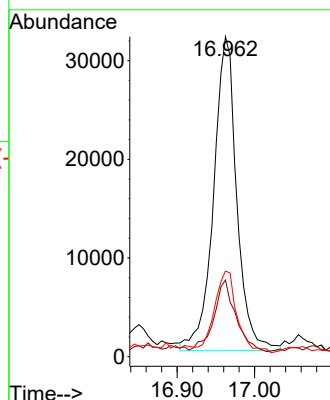
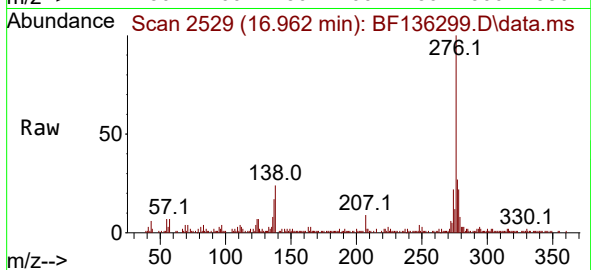
Tgt Ion:	276	Resp:	66470
Ion Ratio	Lower	Upper	
276	100		
138	21.6	17.7	26.5
277	25.4	19.6	29.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#88

Benzo(b)fluoranthene

Concen: 13.363 ng m

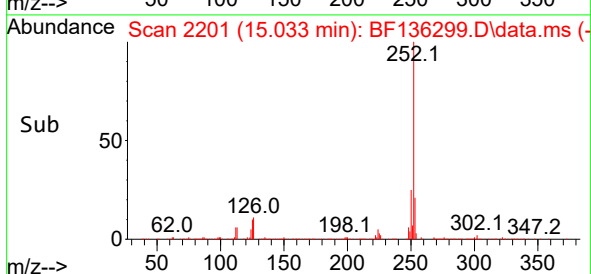
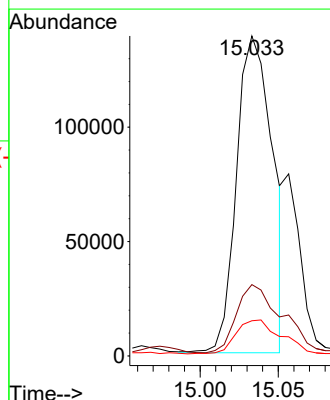
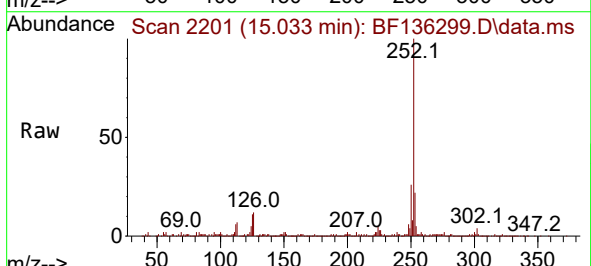
RT: 15.033 min Scan# 2201

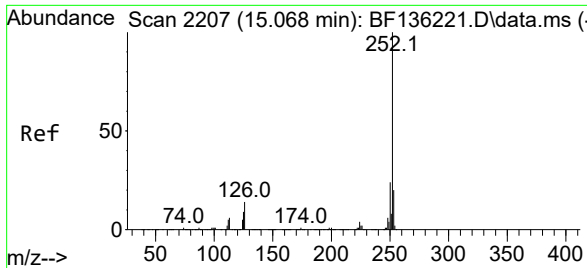
Delta R.T. -0.006 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Tgt Ion:	252	Resp:	222481
Ion Ratio	Lower	Upper	
252	100		
253	22.3	16.2	24.2
125	11.0	6.9	10.3





#89

Benzo(k)fluoranthene

Concen: 3.562 ng m

RT: 15.057 min Scan# 2207

Delta R.T. -0.011 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

Instrument :

BNA_F

ClientSampleId :

L-3(195FT)(0-5)DL

Tgt Ion:252 Resp: 56330

Ion Ratio Lower Upper

252 100

253 22.5 15.6 23.4

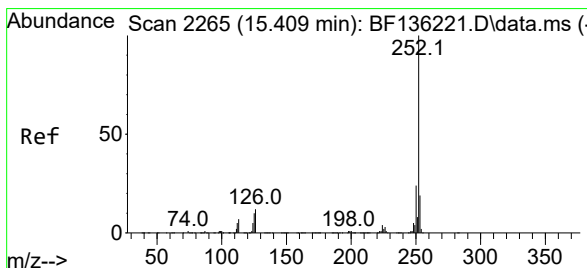
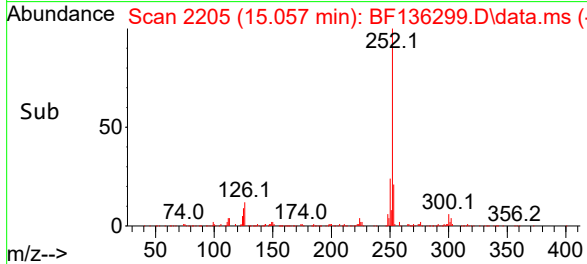
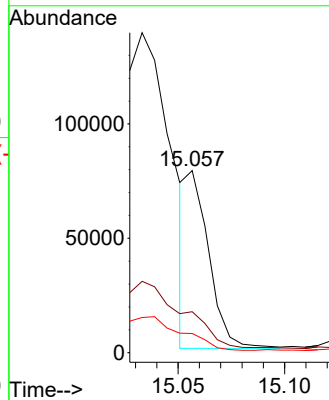
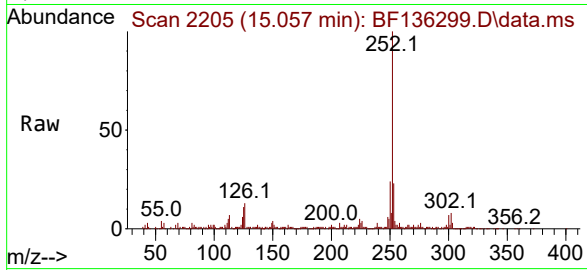
125 10.6 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#90

Benzo(a)pyrene

Concen: 16.024 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.005 min

Lab File: BF136299.D

Acq: 29 Nov 2023 23:30

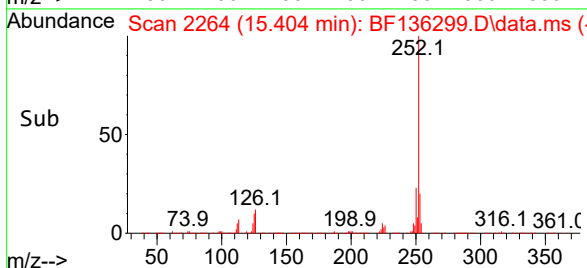
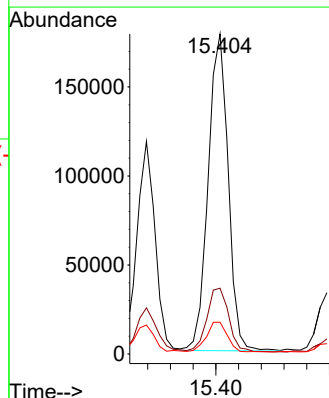
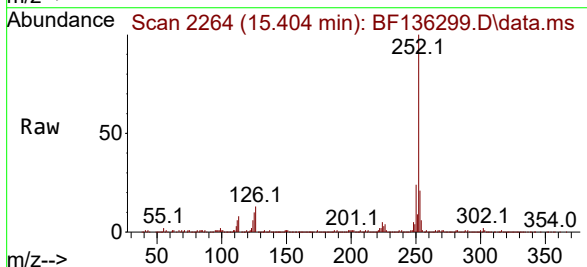
Tgt Ion:252 Resp: 218090

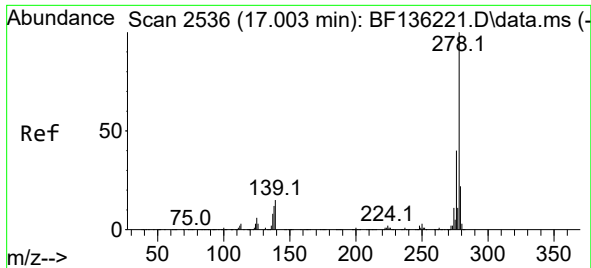
Ion Ratio Lower Upper

252 100

253 20.6 15.5 23.3

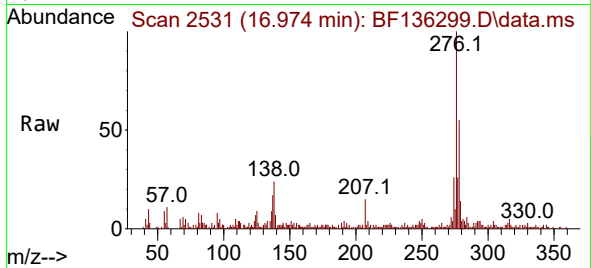
125 9.9 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 4.210 ng
RT: 16.974 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

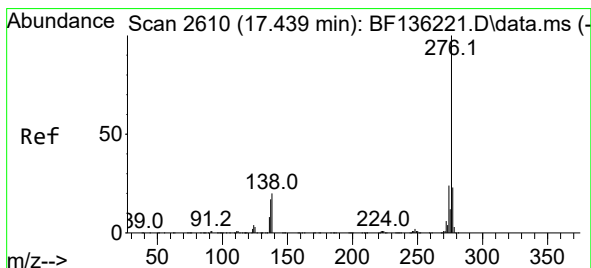
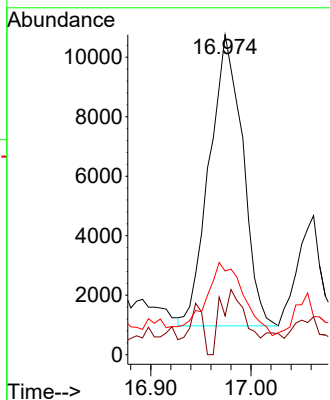
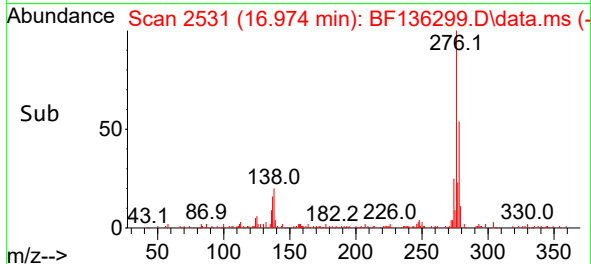
Instrument :
BNA_F
ClientSampleId :
L-3(195FT)(0-5)DL



Tgt Ion: 278 Resp: 2258
Ion Ratio Lower Upper
278 100
139 12.1 11.7 17.5
279 26.2 17.8 26.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#92
Benzo(g,h,i)perylene
Concen: 6.702 ng
RT: 17.415 min Scan# 2606
Delta R.T. -0.024 min
Lab File: BF136299.D
Acq: 29 Nov 2023 23:30

Tgt Ion: 276 Resp: 71413
Ion Ratio Lower Upper
276 100
277 22.0 18.6 27.8
138 22.9 15.8 23.8

