

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
 Data File : BF136476.D
 Acq On : 08 Dec 2023 19:43
 Operator : CG\JU
 Sample : 05629-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/11/2023
 Supervised By :mohammad ahmed 12/14/2023

Quant Time: Dec 08 22:30:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	125637	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	483104	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	242565	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	345302	20.000	ng	0.00
76) Chrysene-d12	13.980	240	224130	20.000	ng	0.00
86) Perylene-d12	15.457	264	217336	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	796692	93.649	ng	0.01
7) Phenol-d6	6.445	99	967655	91.167	ng	0.00
23) Nitrobenzene-d5	7.357	82	571299	63.930	ng	-0.01
42) 2,4,6-Tribromophenol	10.627	330	214314	71.657	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1010413	56.839	ng	-0.01
79) Terphenyl-d14	12.921	244	810463	47.661	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.110	128	4935939	185.274	ng	97
37) 2-Methylnaphthalene	8.798	142	2317391	136.728	ng	100
38) 1-Methylnaphthalene	8.892	142	1244210	74.810	ng	99
46) 1,1'-Biphenyl	9.257	154	918931	44.522	ng	98
52) Acenaphthene	9.880	154	2177395	148.482	ng	97
55) Dibenzofuran	10.051	168	3539682	165.229	ng	97
58) Fluorene	10.398	166	3163755	183.973	ng	96
71) Phenanthrene	11.380	178	7059476	371.956	ng	96
72) Anthracene	11.416	178	1279163	66.915	ng	99
73) Carbazole	11.557	167	393792	23.275	ng	99
75) Fluoranthene	12.557	202	3339100	167.884	ng	98
78) Pyrene	12.786	202	2181758	99.395	ng	99
81) Benzo(a)anthracene	13.968	228	648459	41.536	ng	98
83) Chrysene	14.004	228	437259	28.467	ng	97
88) Benzo(b)fluoranthene	15.021	252	180888m	12.173	ng	
89) Benzo(k)fluoranthene	15.045	252	53833m	3.844	ng	
90) Benzo(a)pyrene	15.386	252	82210	6.699	ng	96

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

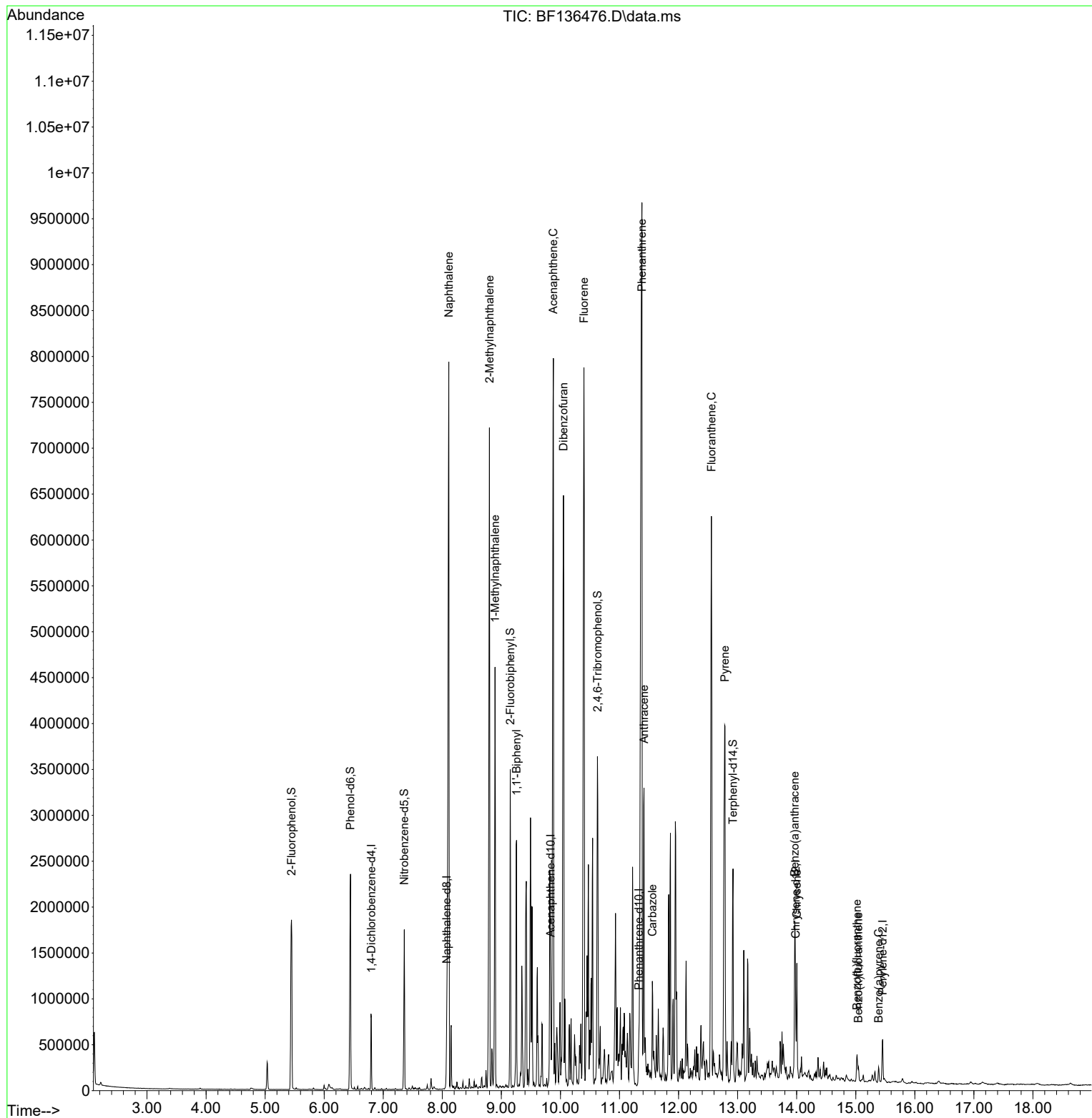
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
Data File : BF136476.D
Acq On : 08 Dec 2023 19:43
Operator : CG\JU
Sample : 05629-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

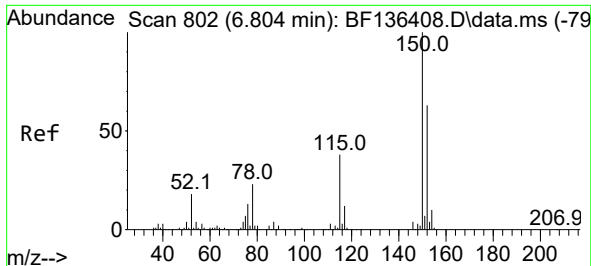
Instrument :
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Quant Time: Dec 08 22:30:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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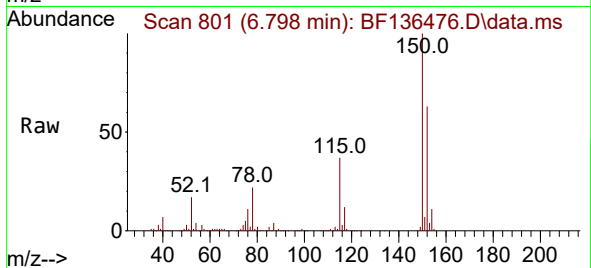
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 802
Delta R.T. -0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

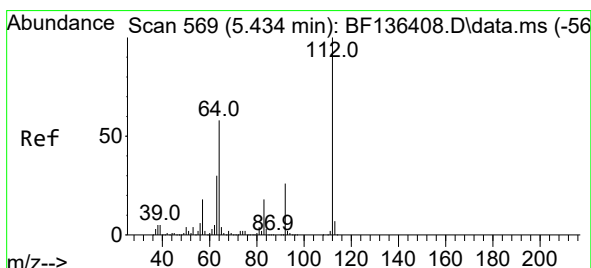
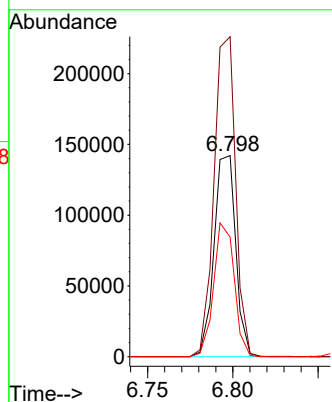
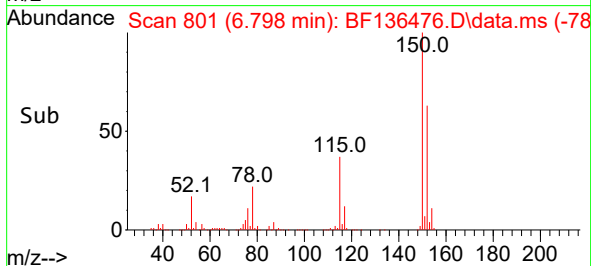
Instrument :
BNA_F
ClientSampleId :
VNJ-216



Tgt Ion:152 Resp: 125637
Ion Ratio Lower Upper
152 100
150 159.1 126.4 189.6
115 59.4 48.2 72.4

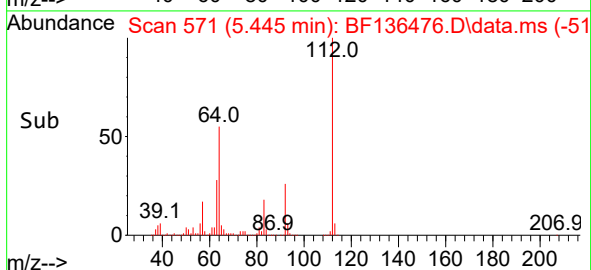
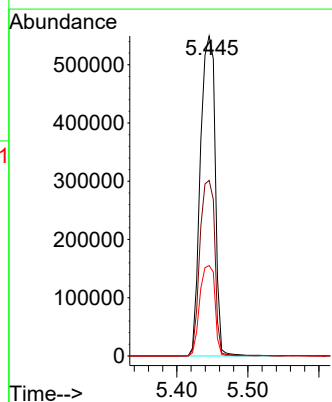
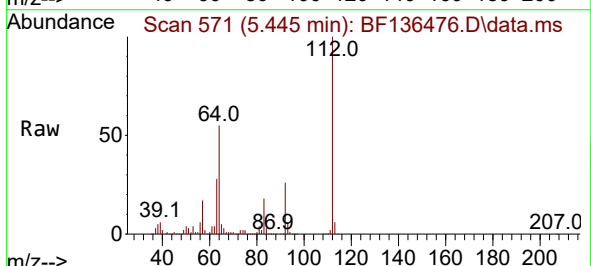
Manual Integrations
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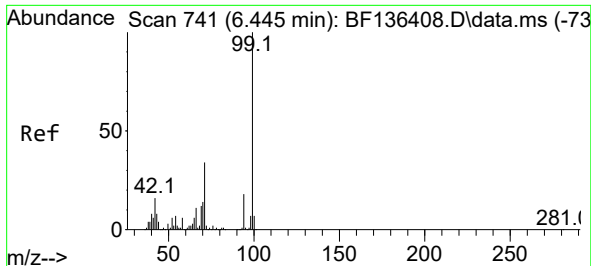
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023



#5
2-Fluorophenol
Concen: 93.649 ng
RT: 5.445 min Scan# 571
Delta R.T. 0.012 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

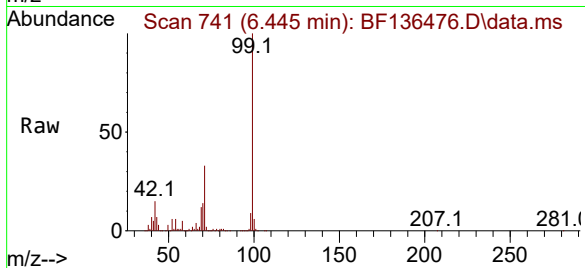
Tgt Ion:112 Resp: 796692
Ion Ratio Lower Upper
112 100
64 54.8 46.5 69.7
63 28.2 23.9 35.9





#7
Phenol-d6
Concen: 91.167 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

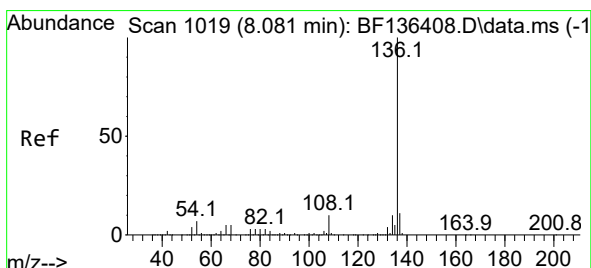
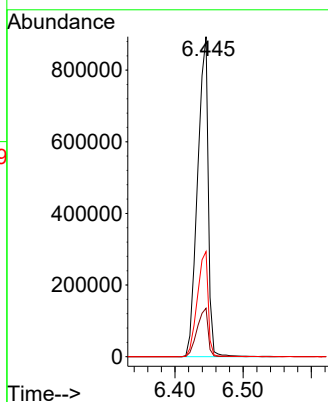
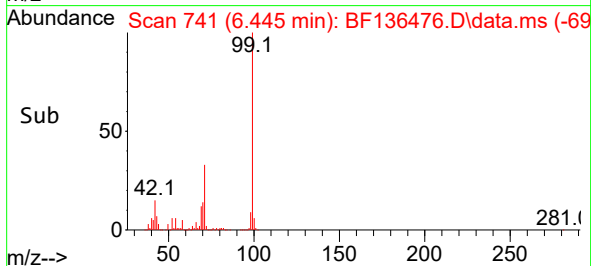
Instrument :
BNA_F
ClientSampleId :
VNJ-216



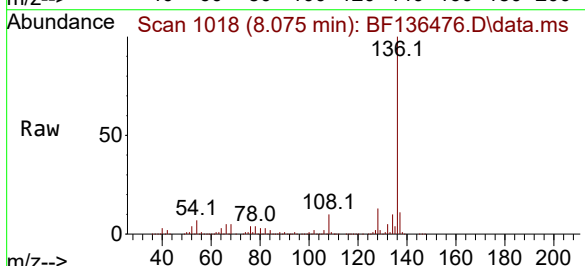
Tgt Ion: 99 Resp: 96765
Ion Ratio Lower Upper
99 100
42 15.1 12.8 19.2
71 32.9 27.0 40.4

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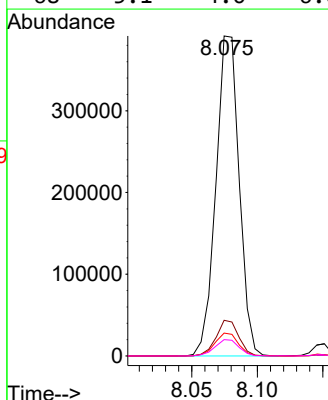
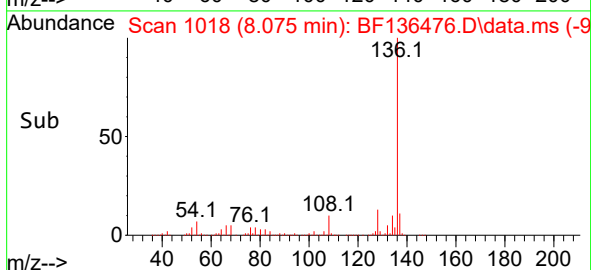
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023

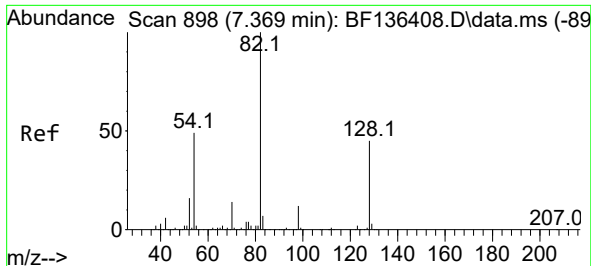


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43



Tgt Ion:136 Resp: 483104
Ion Ratio Lower Upper
136 100
137 11.1 8.6 12.8
54 7.2 5.7 8.5
68 5.1 4.0 6.0





#23

Nitrobenzene-d5

Concen: 63.930 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

Instrument :

BNA_F

ClientSampleId :

VNJ-216

Tgt Ion: 82 Resp: 571299

Ion Ratio Lower Upper

82 100

128 45.5 36.3 54.5

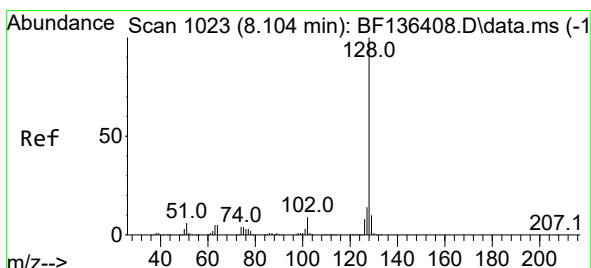
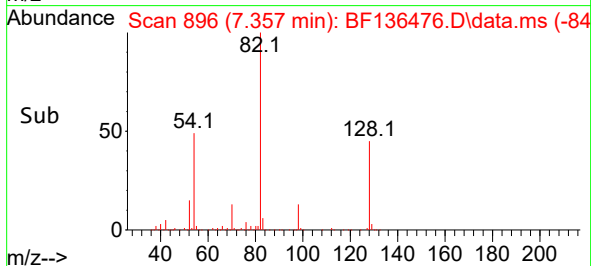
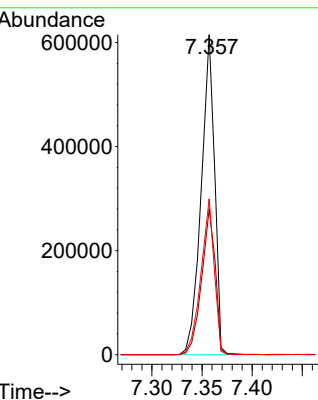
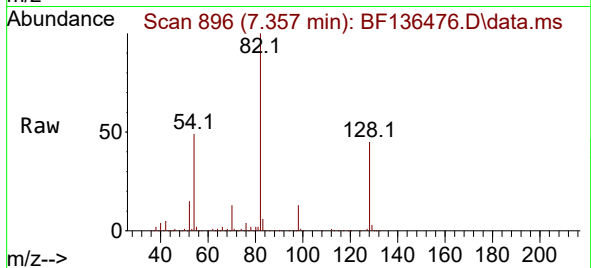
54 48.7 39.0 58.6

Manual Integrations

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Supervised By :mohammad ahmed 12/14/2023



#31

Naphthalene

Concen: 185.274 ng

RT: 8.110 min Scan# 1024

Delta R.T. 0.006 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

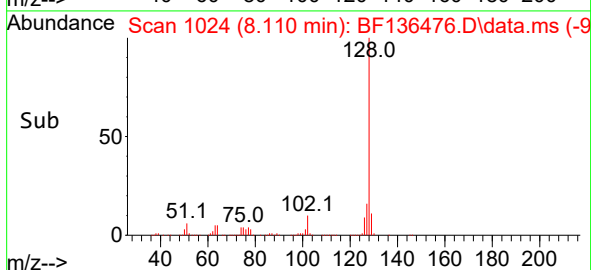
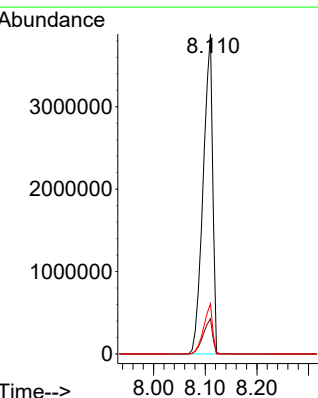
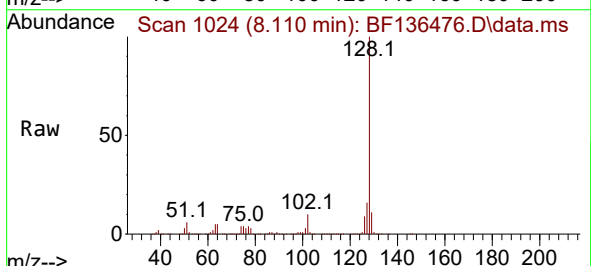
Tgt Ion:128 Resp: 4935939

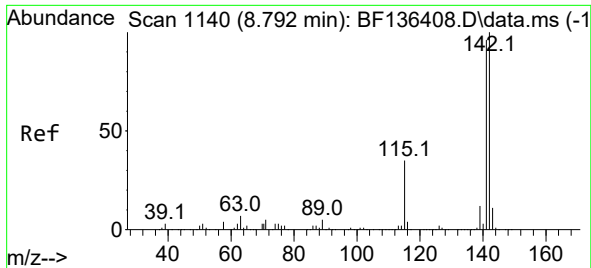
Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

127 15.7 11.1 16.7





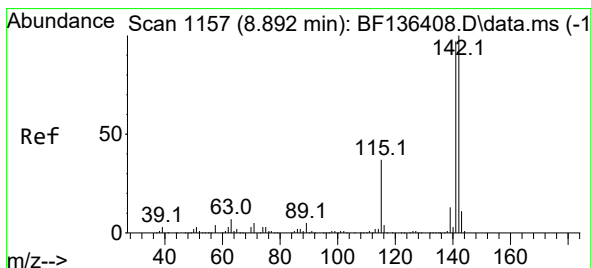
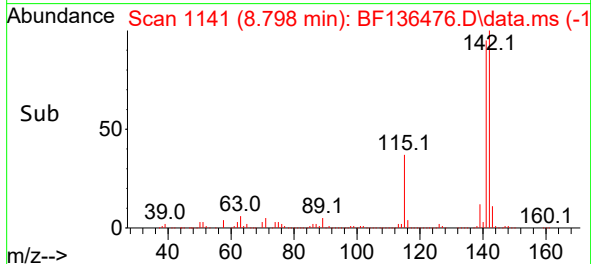
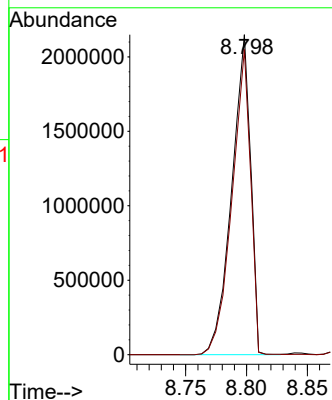
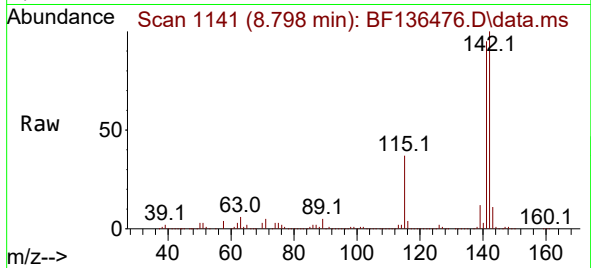
#37
2-Methylnaphthalene
Concen: 136.728 ng
RT: 8.798 min Scan# 1141
Delta R.T. 0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Instrument :
BNA_F
ClientSampleId :
VNJ-216

Tgt Ion:142 Resp: 231739
Ion Ratio Lower Upper
142 100
141 95.3 76.4 114.6

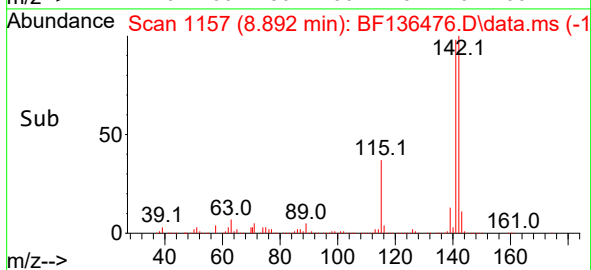
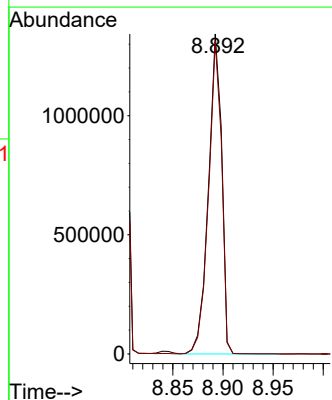
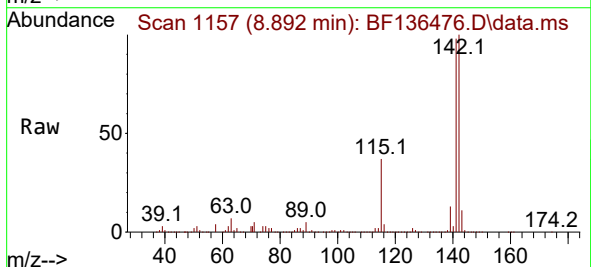
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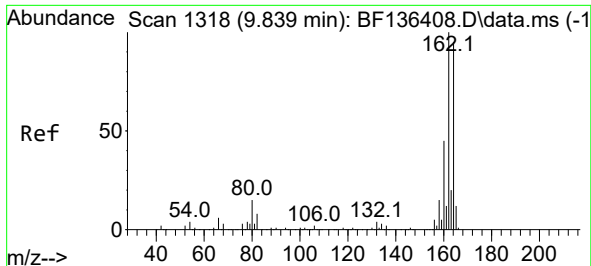
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023



#38
1-Methylnaphthalene
Concen: 74.810 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Tgt Ion:142 Resp: 1244210
Ion Ratio Lower Upper
142 100
141 97.7 77.7 116.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

Instrument :

BNA_F

ClientSampleId :

VNJ-216

Tgt Ion:164 Resp: 24256

Ion Ratio Lower Upper

164 100

162 105.4 84.4 126.6

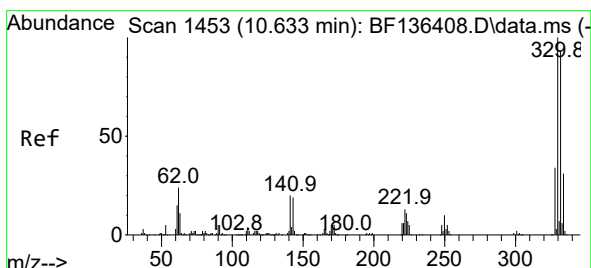
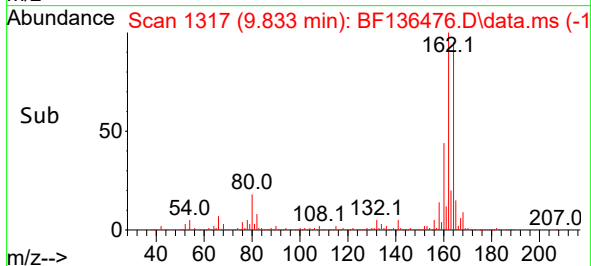
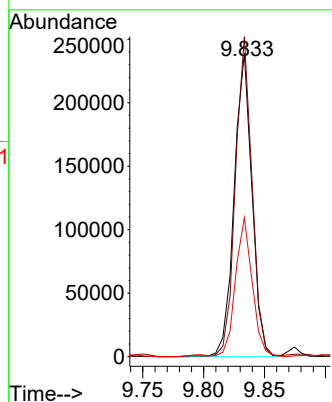
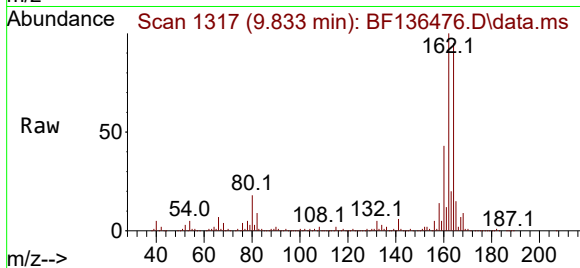
160 45.8 37.6 56.4

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 71.657 ng

RT: 10.627 min Scan# 1452

Delta R.T. -0.006 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

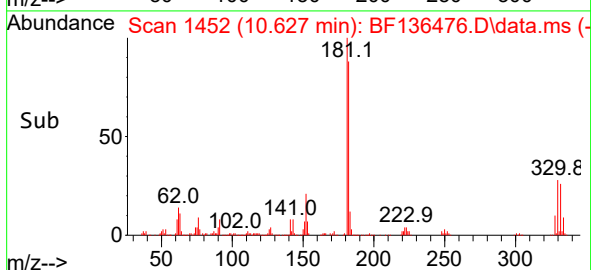
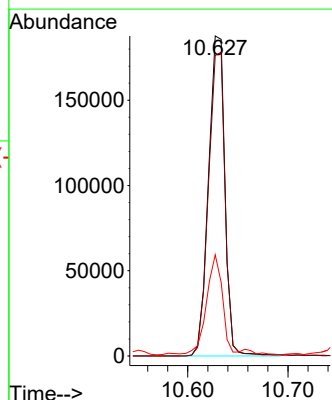
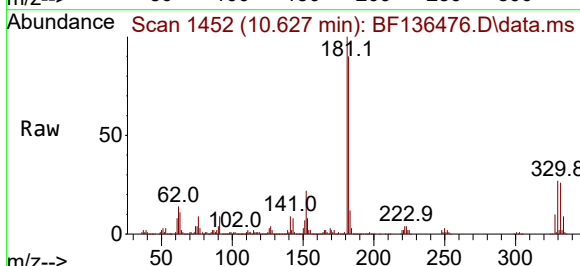
Tgt Ion:330 Resp: 214314

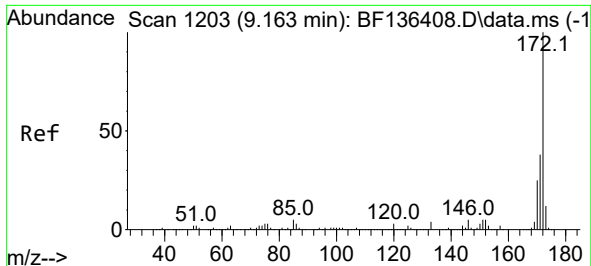
Ion Ratio Lower Upper

330 100

332 95.7 76.4 114.6

141 30.8 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 56.839 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

Instrument :

BNA_F

ClientSampleId :

VNJ-216

Tgt Ion:172 Resp: 101041

Ion Ratio Lower Upper

172 100

171 36.9 30.5 45.7

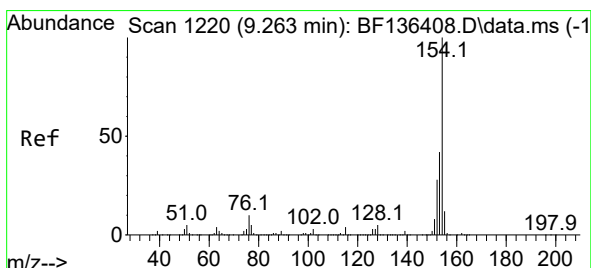
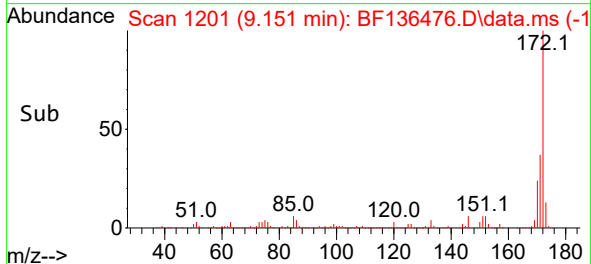
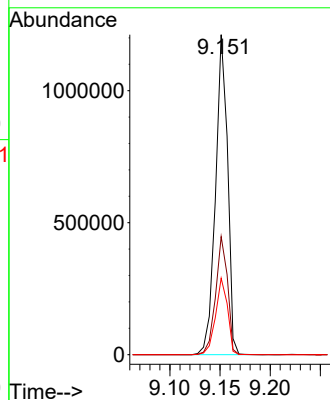
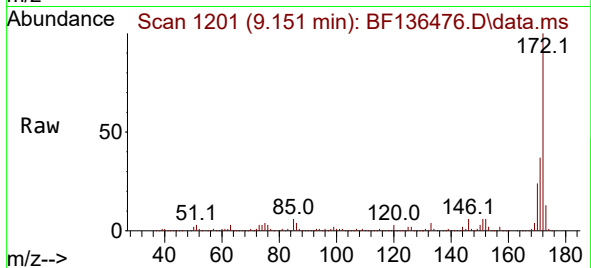
170 23.9 19.9 29.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2023

Supervised By :mohammad ahmed 12/14/2023



#46

1,1'-Biphenyl

Concen: 44.522 ng

RT: 9.257 min Scan# 1219

Delta R.T. -0.006 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

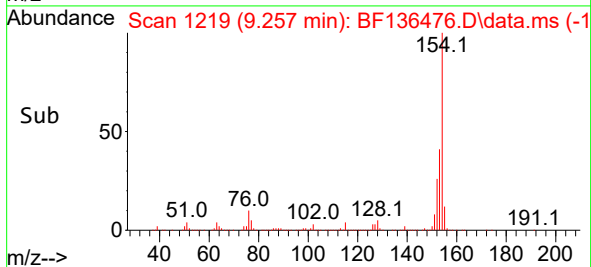
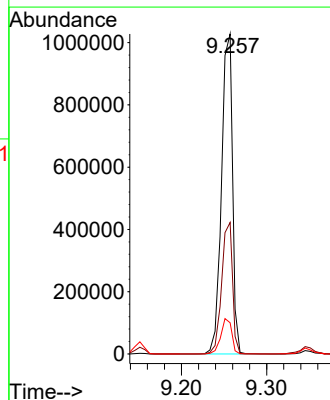
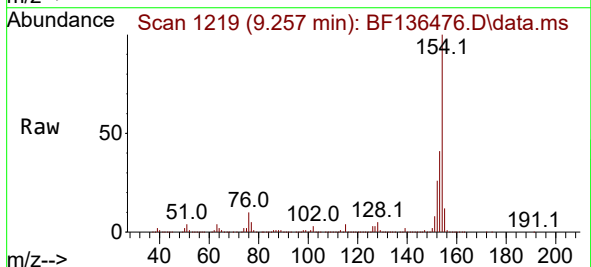
Tgt Ion:154 Resp: 918931

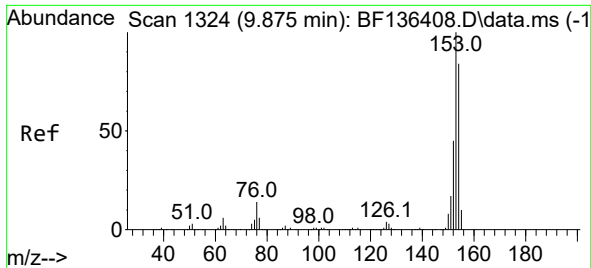
Ion Ratio Lower Upper

154 100

153 41.1 22.5 62.5

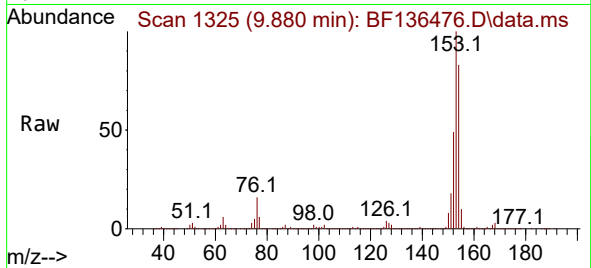
76 9.7 0.0 29.9





#52
Acenaphthene
Concen: 148.482 ng
RT: 9.880 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

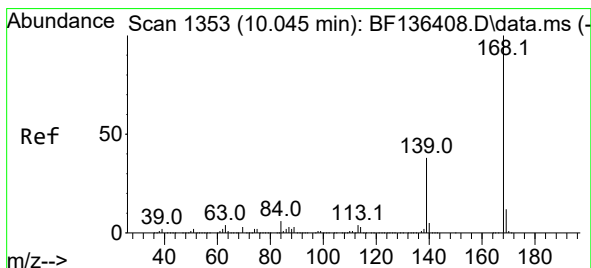
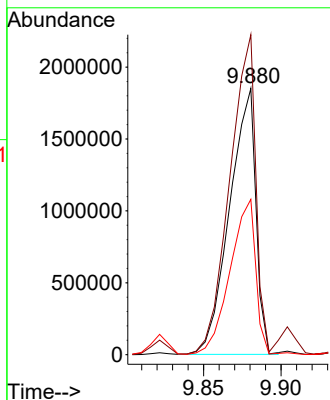
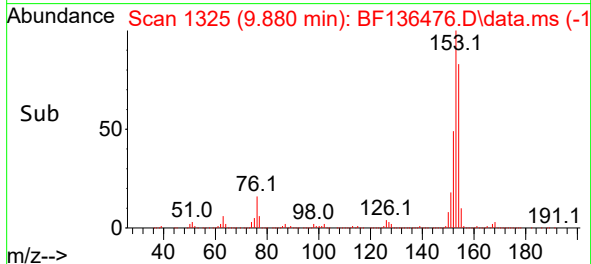
Instrument :
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VNJ-216



Tgt Ion:154 Resp: 217739
Ion Ratio Lower Upper
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153 120.2 95.3 142.9
152 58.4 43.2 64.8

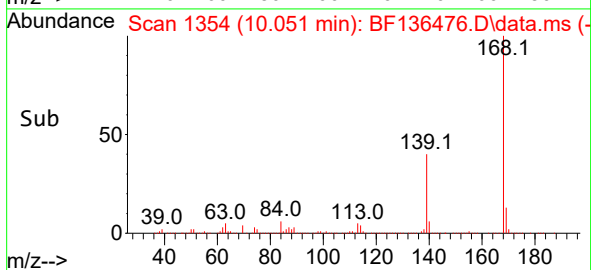
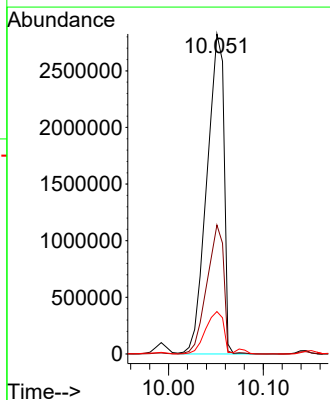
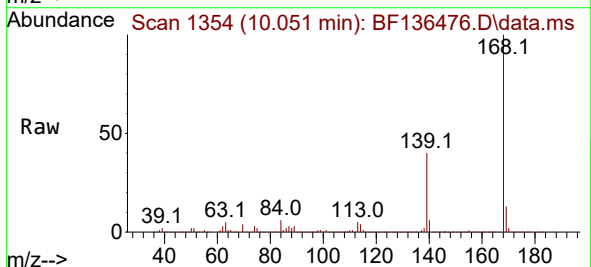
Manual Integrations
APPROVED

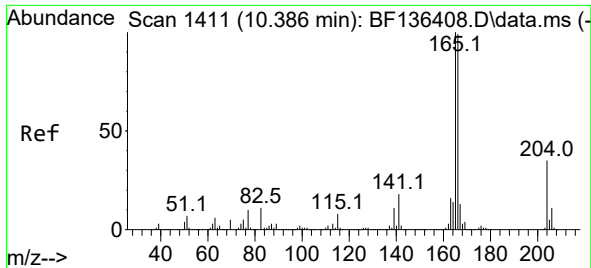
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023



#55
Dibenzofuran
Concen: 165.229 ng
RT: 10.051 min Scan# 1354
Delta R.T. 0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

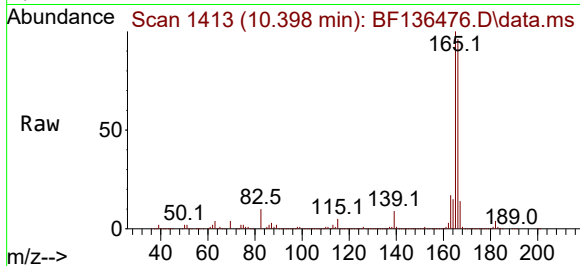
Tgt Ion:168 Resp: 3539682
Ion Ratio Lower Upper
168 100
139 40.3 30.4 45.6
169 13.3 9.9 14.9





#58
Fluorene
Concen: 183.973 ng
RT: 10.398 min Scan# 1413
Delta R.T. 0.012 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

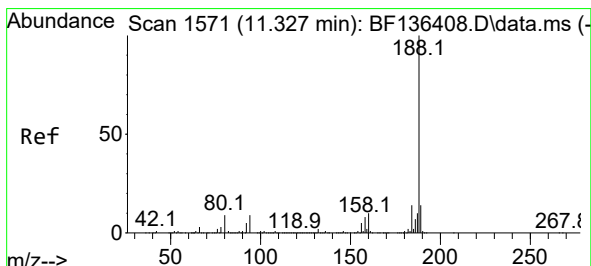
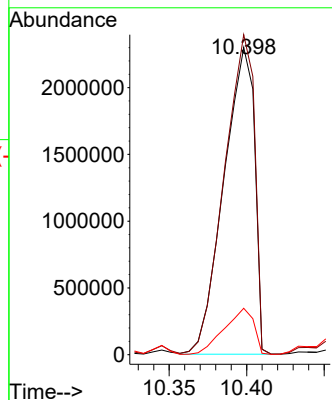
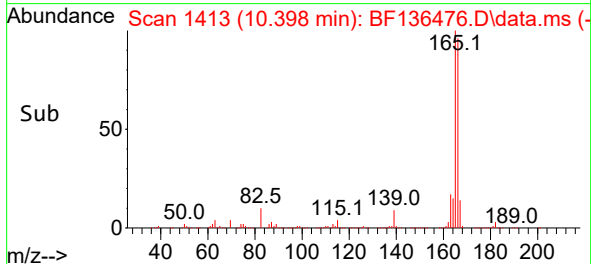
Instrument :
BNA_F
ClientSampleId :
VNJ-216



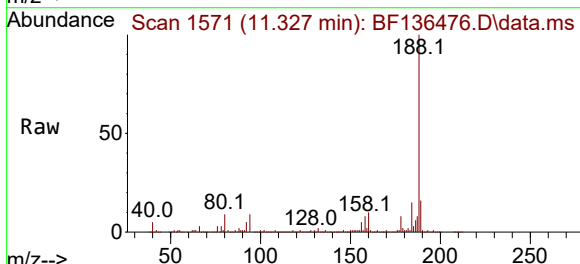
Tgt Ion:166 Resp: 316375
Ion Ratio Lower Upper
166 100
165 104.1 80.5 120.7
167 15.1 10.5 15.7

Manual Integrations
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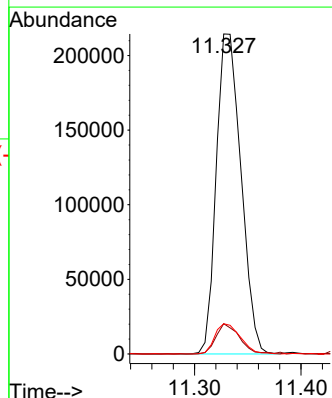
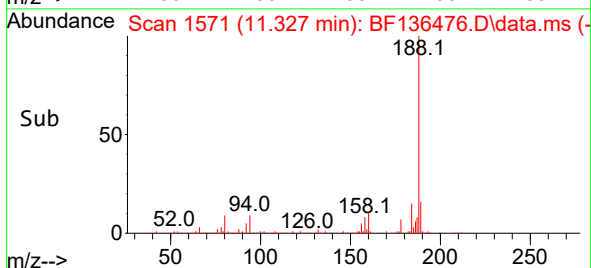
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023

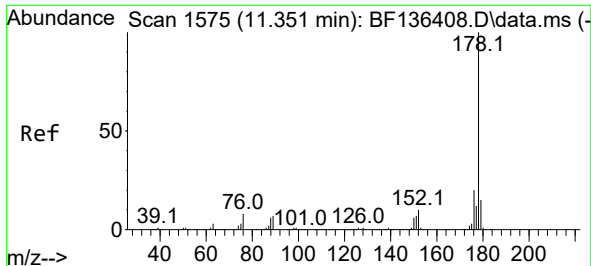


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43



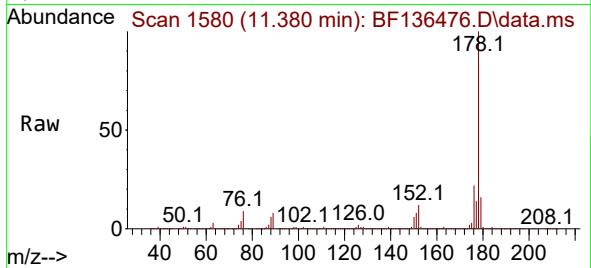
Tgt Ion:188 Resp: 345302
Ion Ratio Lower Upper
188 100
94 9.4 7.2 10.8
80 9.5 7.2 10.8





#71
Phenanthrene
Concen: 371.956 ng
RT: 11.380 min Scan# 1575
Delta R.T. 0.029 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

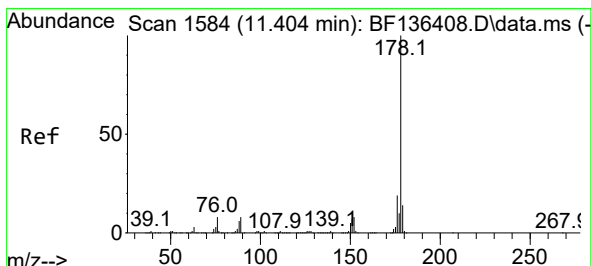
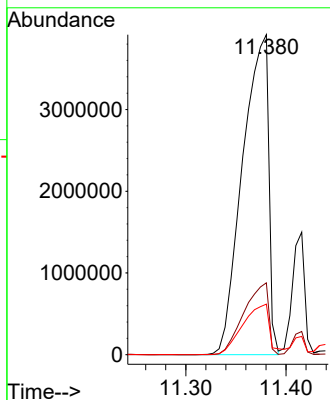
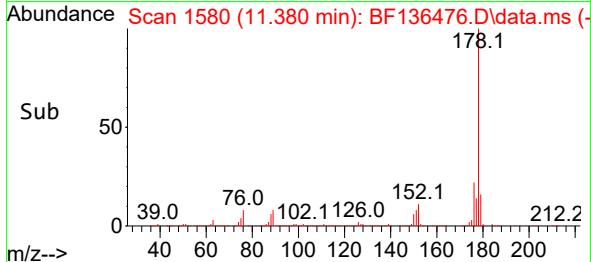
Instrument :
BNA_F
ClientSampleId :
VNJ-216



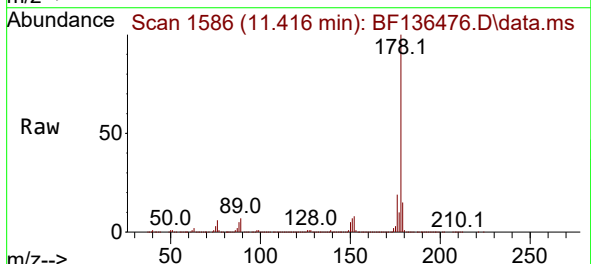
Tgt Ion:178 Resp: 7059470
Ion Ratio Lower Upper
178 100
176 22.4 15.9 23.9
179 15.8 11.8 17.6

Manual Integrations
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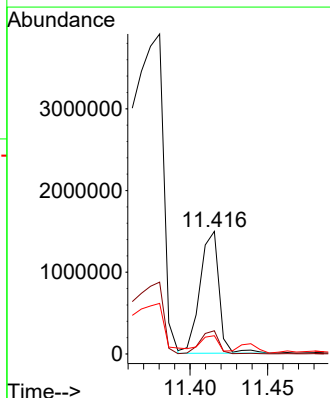
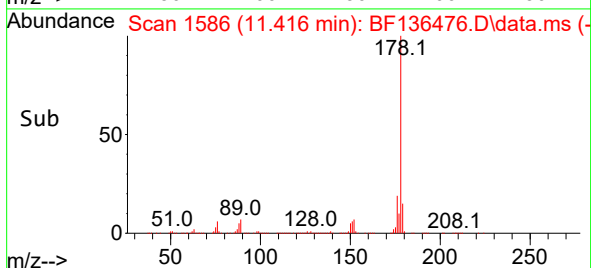
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023

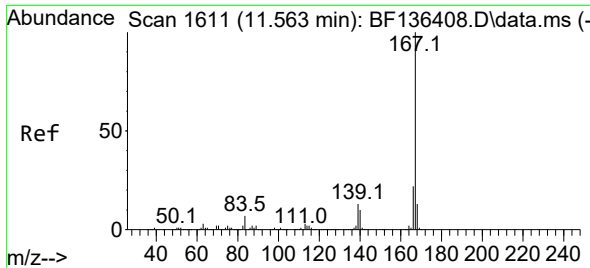


#72
Anthracene
Concen: 66.915 ng
RT: 11.416 min Scan# 1586
Delta R.T. 0.012 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43



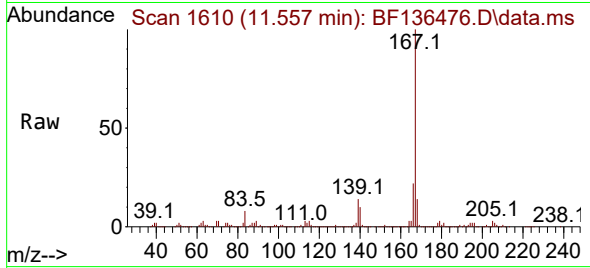
Tgt Ion:178 Resp: 1279163
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 14.9 11.4 17.0





#73
 Carbazole
 Concen: 23.275 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.006 min
 Lab File: BF136476.D
 Acq: 08 Dec 2023 19:43

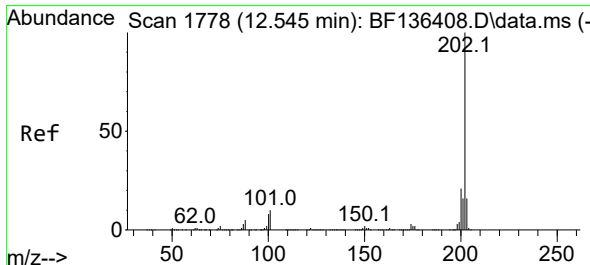
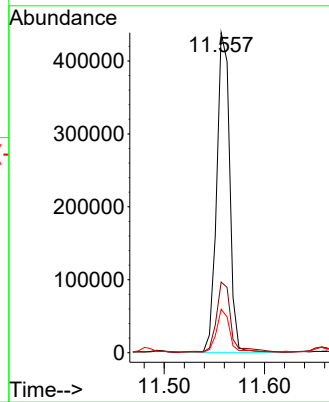
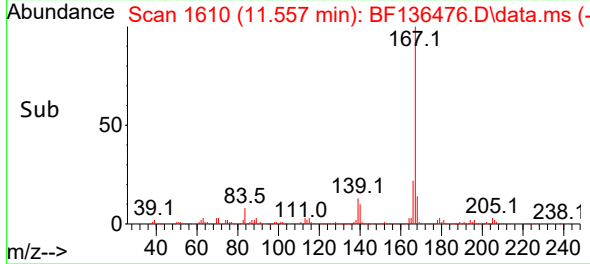
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-216



Tgt Ion:167 Resp: 393792
 Ion Ratio Lower Upper
 167 100
 166 22.0 18.0 27.0
 139 13.6 10.2 15.4

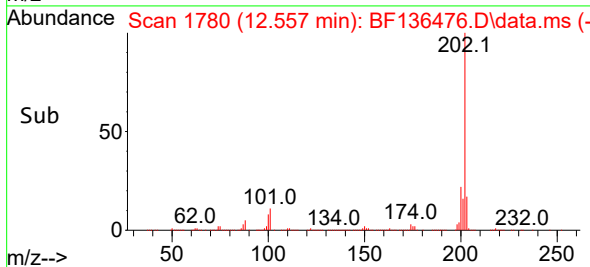
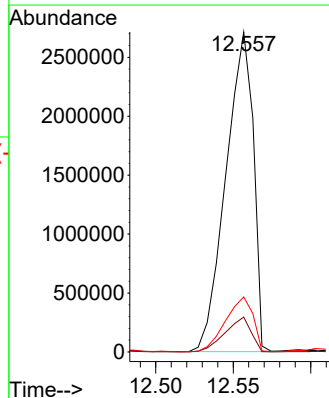
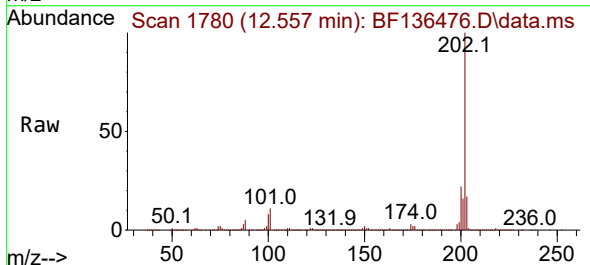
Manual Integrations
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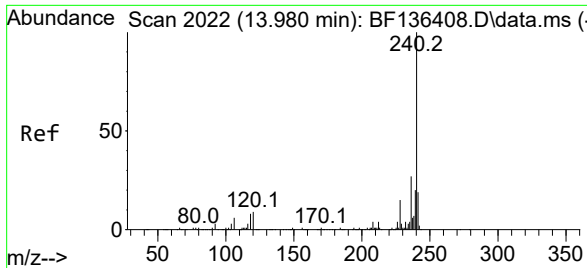
Reviewed By :Yogesh Patel 12/11/2023
 Supervised By :mohammad ahmed 12/14/2023



#75
 Fluoranthene
 Concen: 167.884 ng
 RT: 12.557 min Scan# 1780
 Delta R.T. 0.012 min
 Lab File: BF136476.D
 Acq: 08 Dec 2023 19:43

Tgt Ion:202 Resp: 3339100
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 29.9
 203 17.2 0.0 36.3





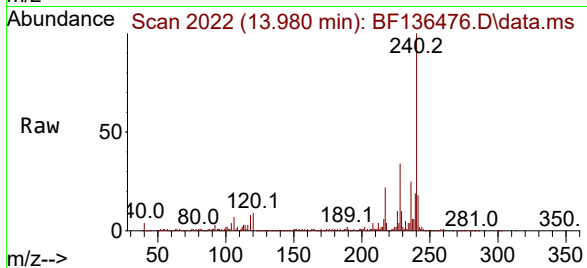
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Instrument :

BNA_F

ClientSampleId :

VNJ-216

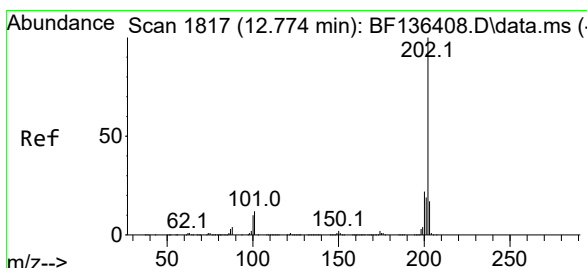
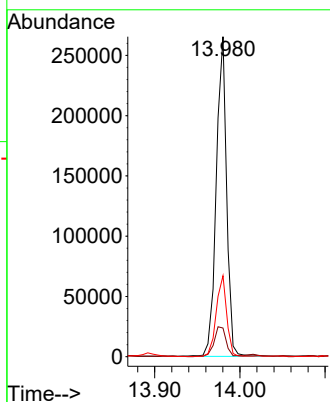
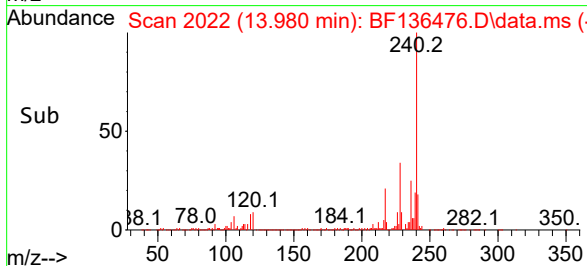


Tgt Ion:240 Resp: 224130
Ion Ratio Lower Upper
240 100
120 9.0 7.3 10.9
236 25.3 21.3 31.9

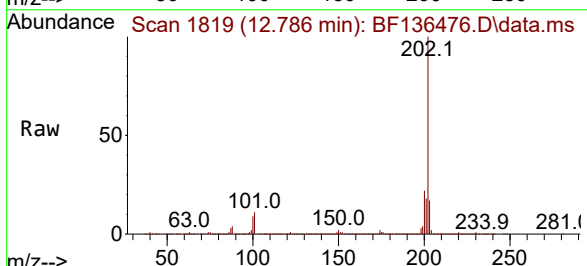
Manual Integrations

APPROVED

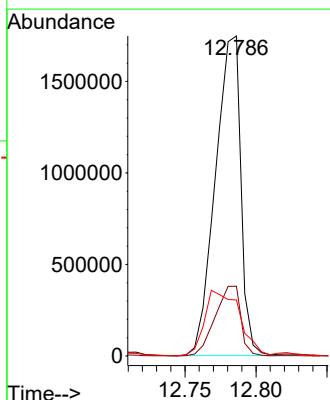
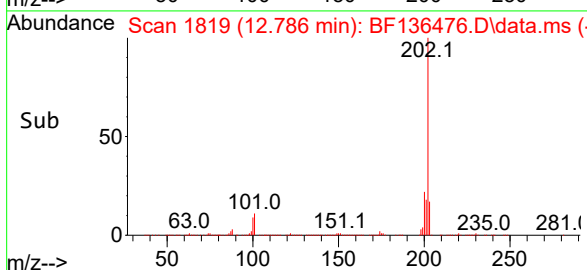
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023

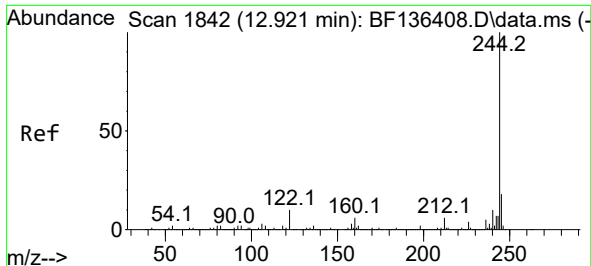


#78
Pyrene
Concen: 99.395 ng
RT: 12.786 min Scan# 1819
Delta R.T. 0.012 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43



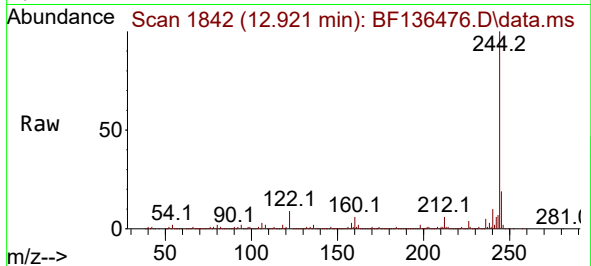
Tgt Ion:202 Resp: 2181758
Ion Ratio Lower Upper
202 100
200 21.8 18.0 27.0
203 17.5 13.5 20.3





#79
Terphenyl-d14
Concen: 47.661 ng
RT: 12.921 min Scan# 1842
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

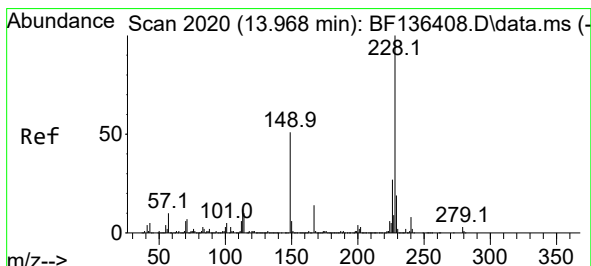
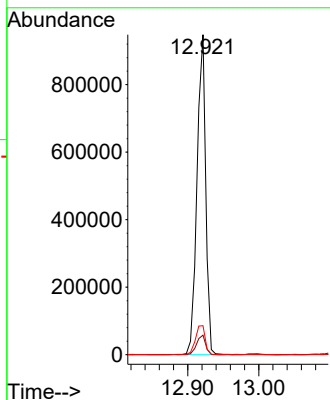
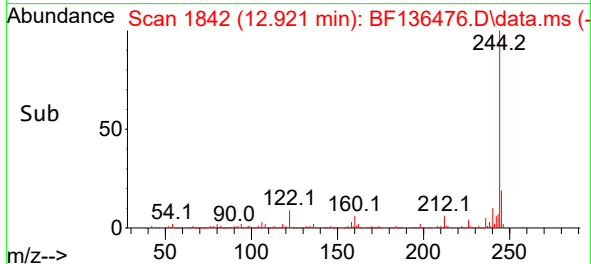
Instrument :
BNA_F
ClientSampleId :
VNJ-216



Tgt Ion:244 Resp: 810461
Ion Ratio Lower Upper
244 100
212 6.1 5.0 7.4
122 9.0 8.3 12.5

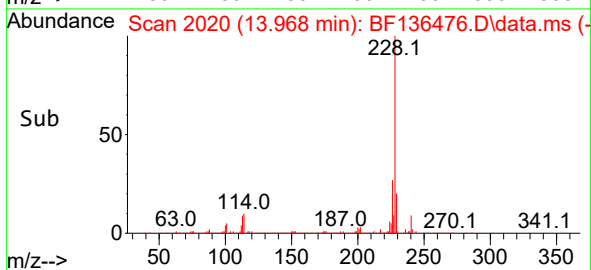
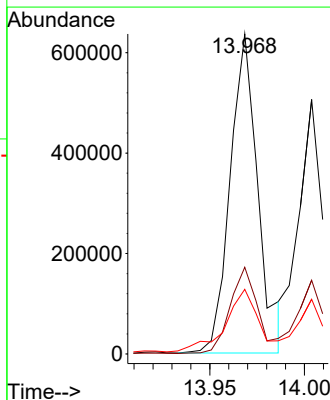
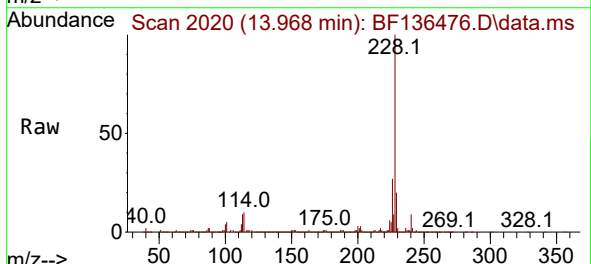
Manual Integrations
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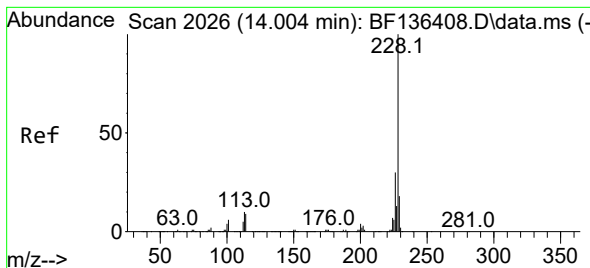
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023



#81
Benzo(a)anthracene
Concen: 41.536 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Tgt Ion:228 Resp: 648459
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.8
229 20.2 15.0 22.4





#83

Chrysene

Concen: 28.467 ng

RT: 14.004 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

Instrument :

BNA_F

ClientSampleId :

VNJ-216

Tgt Ion:228 Resp: 437259

Ion Ratio Lower Upper

228 100

226 29.0 23.8 35.6

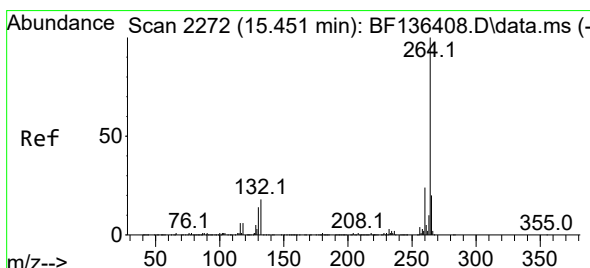
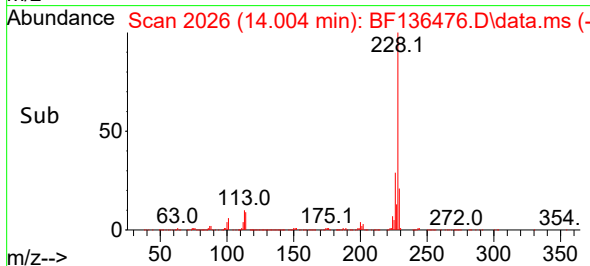
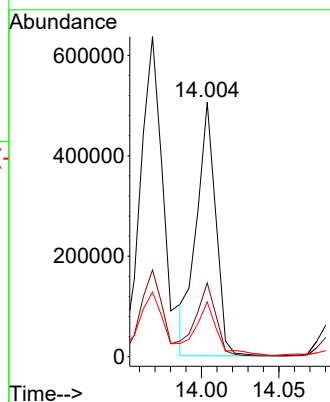
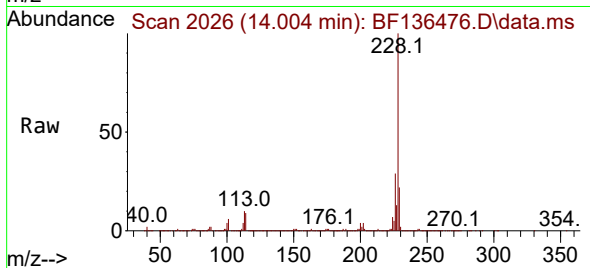
229 21.5 14.8 22.2

Manual Integrations

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Reviewed By :Yogesh Patel 12/11/2023

Supervised By :mohammad ahmed 12/14/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.006 min

Lab File: BF136476.D

Acq: 08 Dec 2023 19:43

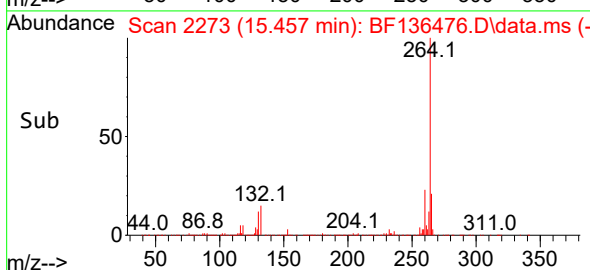
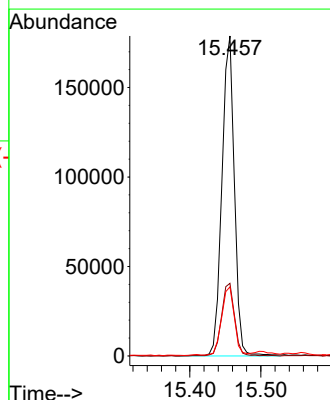
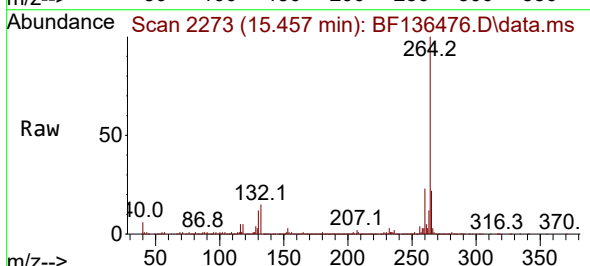
Tgt Ion:264 Resp: 217336

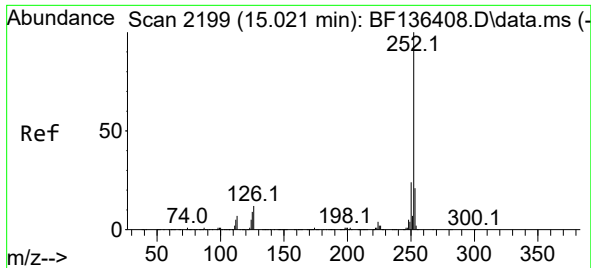
Ion Ratio Lower Upper

264 100

260 22.7 19.2 28.8

265 21.6 15.9 23.9





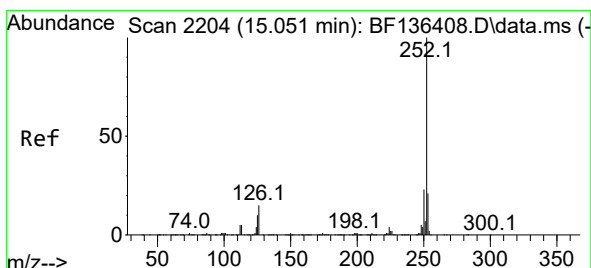
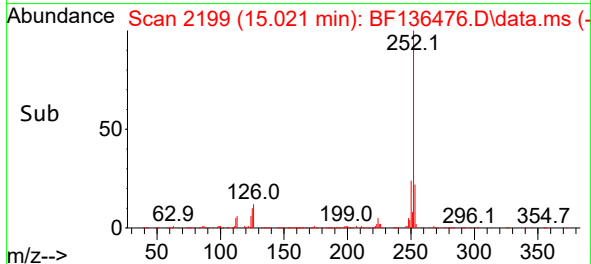
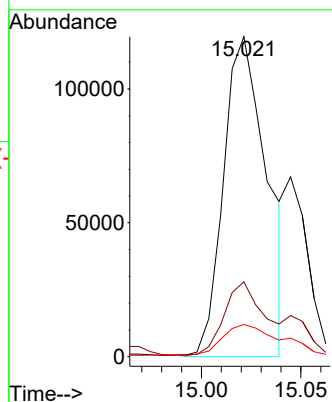
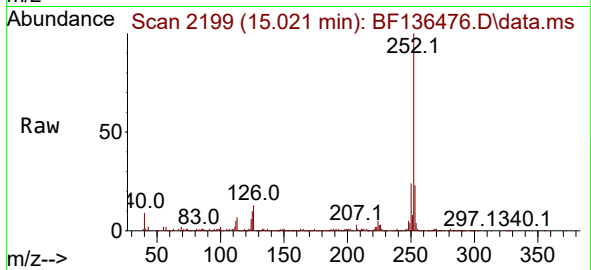
#88
Benzo(b)fluoranthene
Concen: 12.173 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Instrument :
BNA_F
ClientSampleId :
VNJ-216

Tgt Ion:252 Resp: 18088
Ion Ratio Lower Upper
252 100
253 23.4 16.9 25.3
125 10.1 7.4 11.2

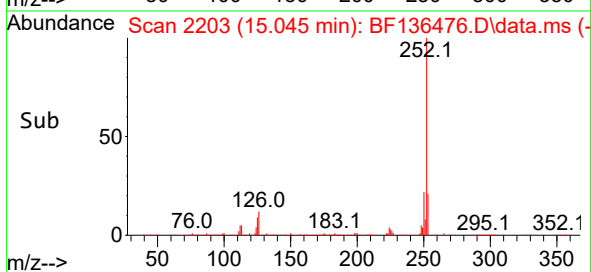
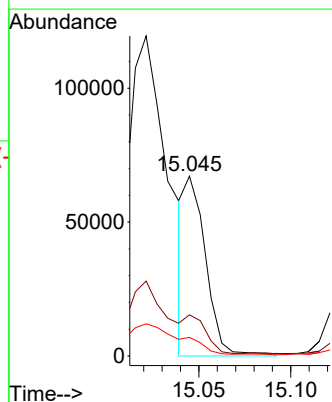
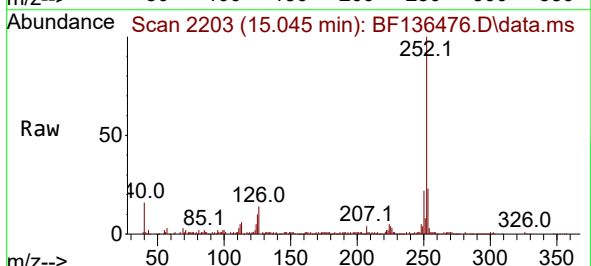
Manual Integrations
APPROVED

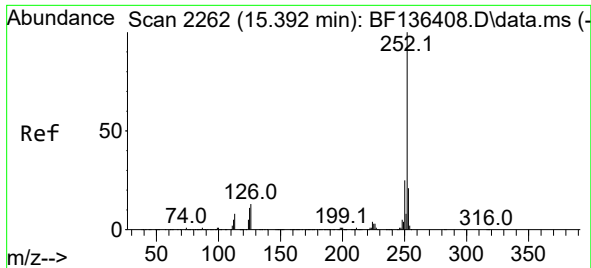
Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023



#89
Benzo(k)fluoranthene
Concen: 3.844 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

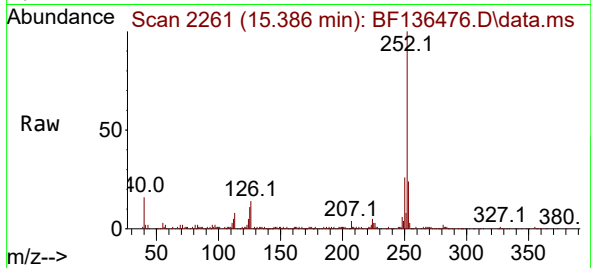
Tgt Ion:252 Resp: 53833
Ion Ratio Lower Upper
252 100
253 22.8 16.9 25.3
125 10.4 7.5 11.3





#90
Benzo(a)pyrene
Concen: 6.699 ng
RT: 15.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136476.D
Acq: 08 Dec 2023 19:43

Instrument :
BNA_F
ClientSampleId :
VNJ-216



Tgt Ion:252 Resp: 82210
Ion Ratio Lower Upper
252 100
253 23.8 17.0 25.4
125 11.2 8.6 13.0

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2023
Supervised By :mohammad ahmed 12/14/2023

