

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136298.D
 Acq On : 29 Nov 2023 22:58
 Operator : CG\JU
 Sample : 05253-03DL 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL

Manual Integrations
 APPROVED

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

Quant Time: Nov 29 23:51:58 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	123321	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	459010	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	185214	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	294018	20.000	ng	0.00
76) Chrysene-d12	13.986	240	273178	20.000	ng	0.00
86) Perylene-d12	15.474	264	241326	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	85993	9.706	ng	-0.01
7) Phenol-d6	6.428	99	103064	9.303	ng	-0.02
23) Nitrobenzene-d5	7.357	82	59435	6.842	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	18444	8.145	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	118701	8.186	ng	-0.01
79) Terphenyl-d14	12.927	244	117095	4.944	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	1217586	47.193	ng	99
37) 2-Methylnaphthalene	8.798	142	608924	37.625	ng	99
38) 1-Methylnaphthalene	8.898	142	884193	56.005	ng	98
46) 1,1'-Biphenyl	9.257	154	197310	12.080	ng	95
49) Acenaphthylene	9.698	152	382025	21.105	ng	# 95
52) Acenaphthene	9.869	154	136842	11.963	ng	91
55) Dibenzofuran	10.045	168	62767	3.688	ng	# 87
58) Fluorene	10.386	166	416012	31.159	ng	97
71) Phenanthrene	11.363	178	1934054	117.037	ng	99
72) Anthracene	11.404	178	331720	20.017	ng	97
75) Fluoranthene	12.551	202	1009351	60.167	ng	95
78) Pyrene	12.786	202	1775377	59.342	ng	99
81) Benzo(a)anthracene	13.980	228	705946m	34.791	ng	
83) Chrysene	14.016	228	709062	36.192	ng	97
87) Indeno(1,2,3-cd)pyrene	16.968	276	144061	10.220	ng	98
88) Benzo(b)fluoranthene	15.039	252	501894m	29.643	ng	
89) Benzo(k)fluoranthene	15.063	252	121048m	7.528	ng	
90) Benzo(a)pyrene	15.410	252	472268	34.122	ng	96
91) Dibenzo(a,h)anthracene	16.980	278	48807	5.894	ng	# 85
92) Benzo(g,h,i)perylene	17.421	276	160345	12.501	ng	97

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

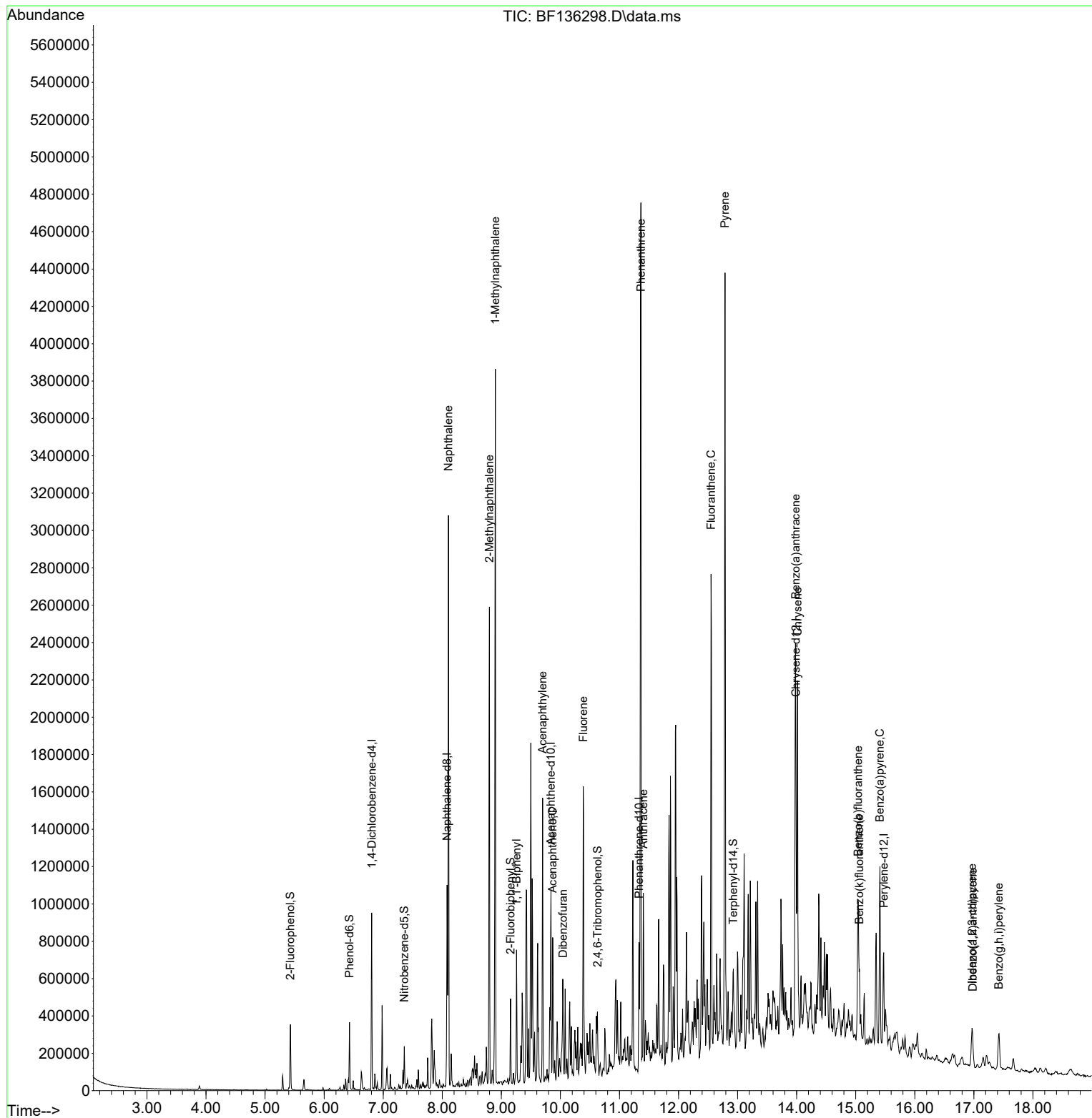
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
Data File : BF136298.D
Acq On : 29 Nov 2023 22:58
Operator : CG\JU
Sample : 05253-03DL 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

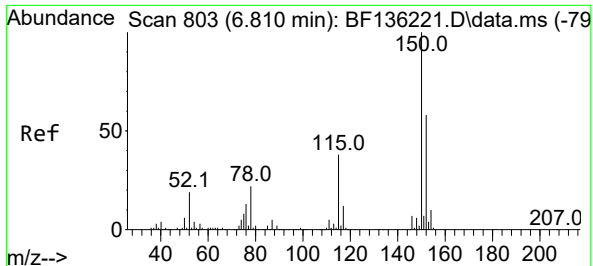
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL

Quant Time: Nov 29 23:51:58 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

Manual Integrations
APPROVED

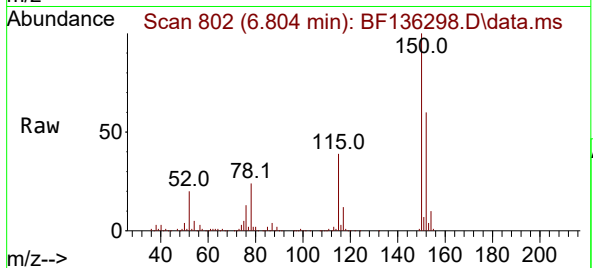
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

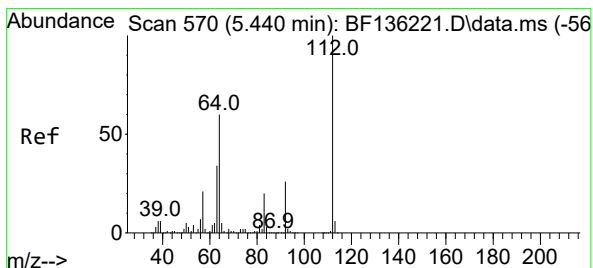
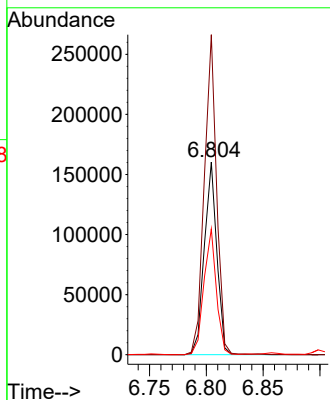
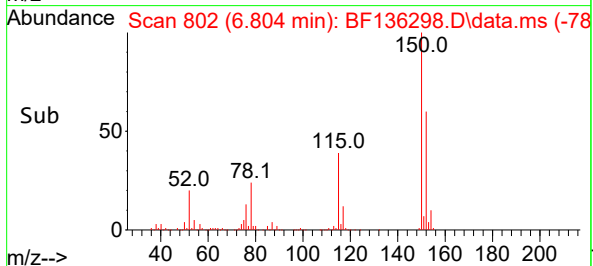
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:152 Resp: 12332
Ion Ratio Lower Upper
152 100
150 166.1 137.8 206.8
115 65.3 52.7 79.1

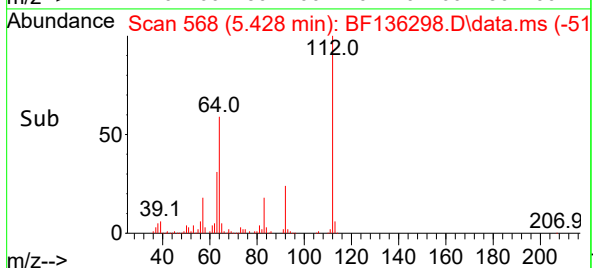
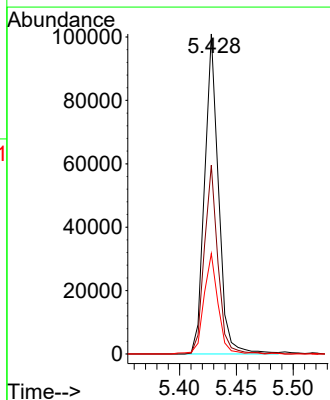
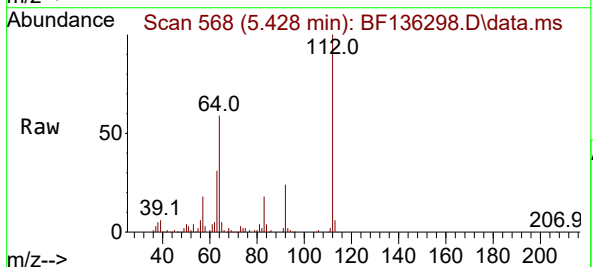
Manual Integrations
APPROVED

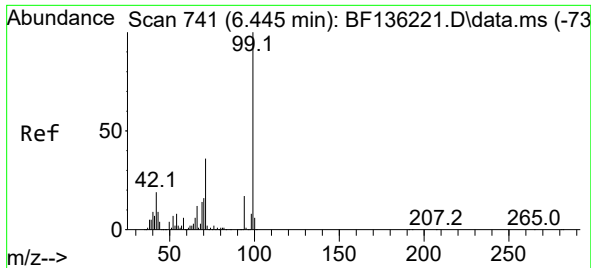
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 9.706 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

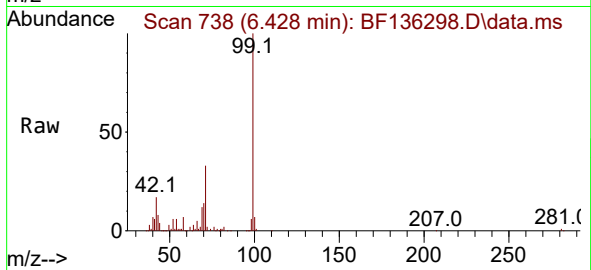
Tgt Ion:112 Resp: 85993
Ion Ratio Lower Upper
112 100
64 59.0 48.2 72.4
63 31.3 27.0 40.6





#7
Phenol-d6
Concen: 9.303 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

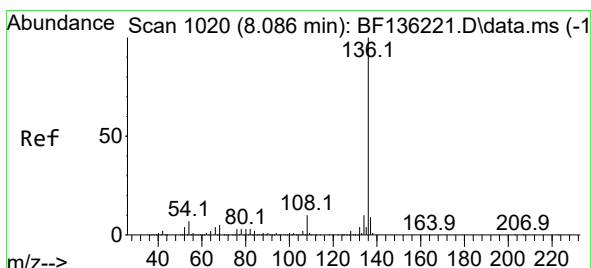
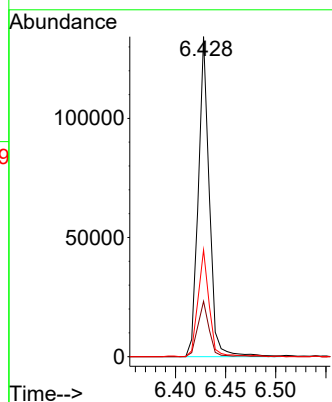
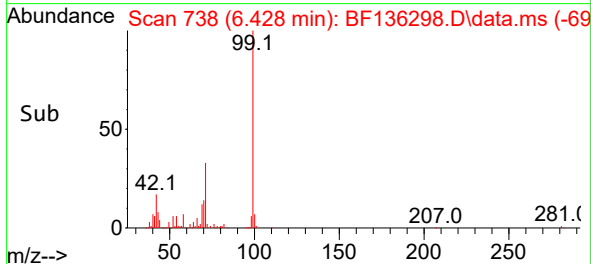
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion: 99 Resp: 103064
Ion Ratio Lower Upper
99 100
42 17.3 15.0 22.6
71 33.3 28.9 43.3

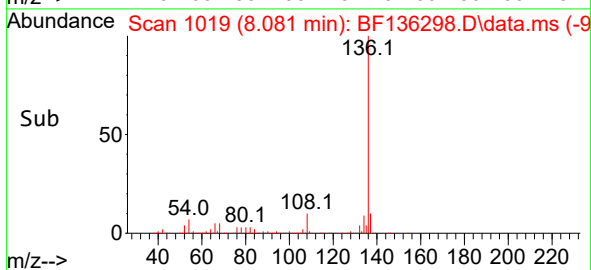
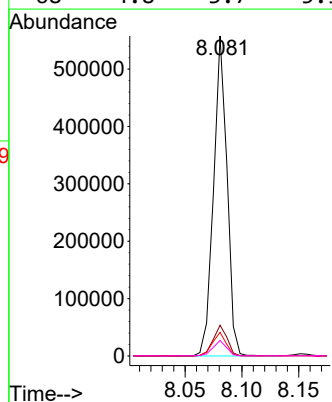
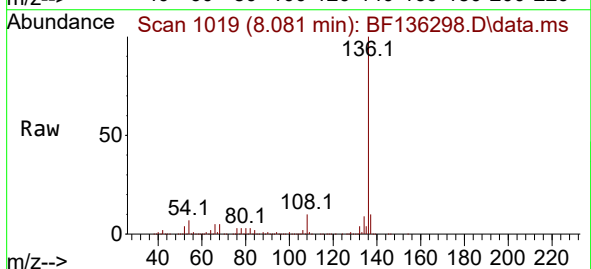
Manual Integrations
APPROVED

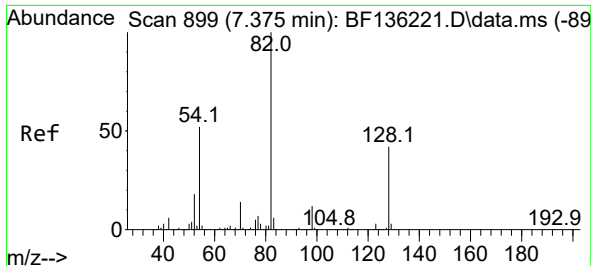
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

Tgt Ion:136 Resp: 459010
Ion Ratio Lower Upper
136 100
137 9.6 7.4 11.2
54 7.4 5.5 8.3
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 6.842 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136298.D

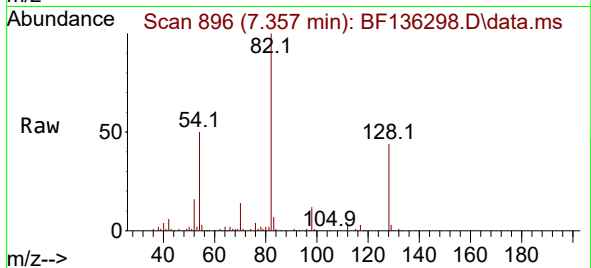
Acq: 29 Nov 2023 22:58

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL



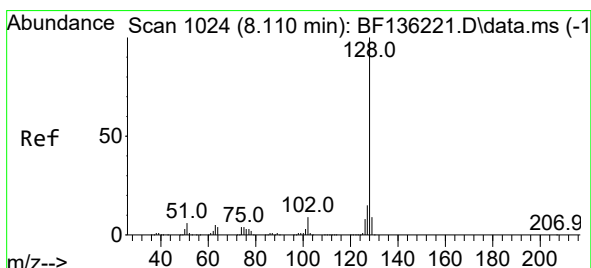
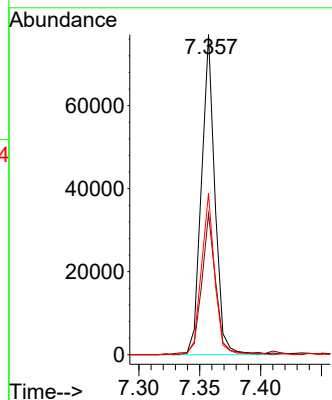
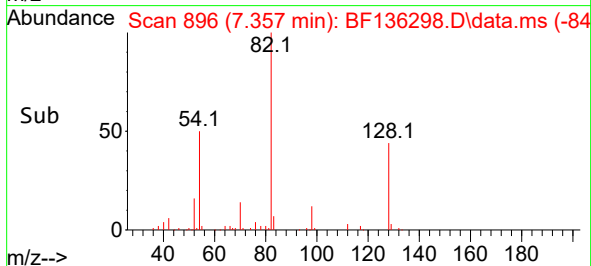
Tgt Ion:	82	Resp:	5943
Ion Ratio	Lower	Upper	
82	100		
128	44.0	33.4	50.2
54	50.4	41.7	62.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 47.193 ng

RT: 8.104 min Scan# 1023

Delta R.T. -0.006 min

Lab File: BF136298.D

Acq: 29 Nov 2023 22:58

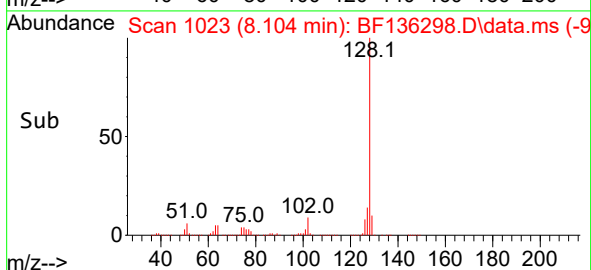
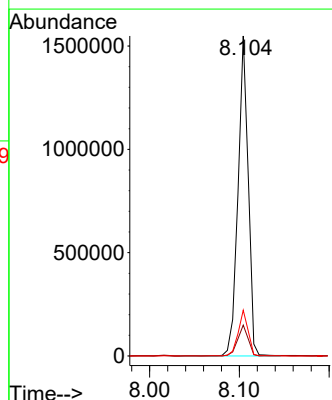
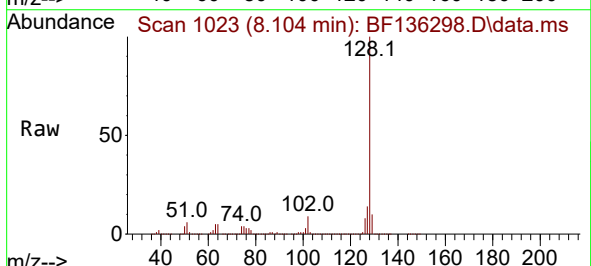
Tgt Ion:128 Resp: 1217586

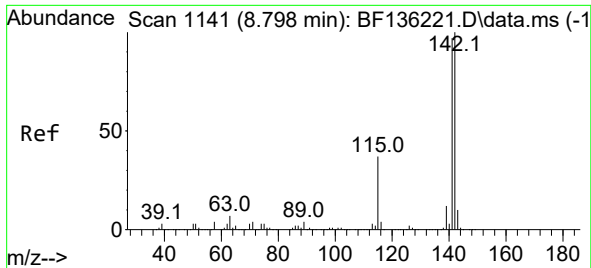
Ion Ratio Lower Upper

128 100

129 9.7 7.3 10.9

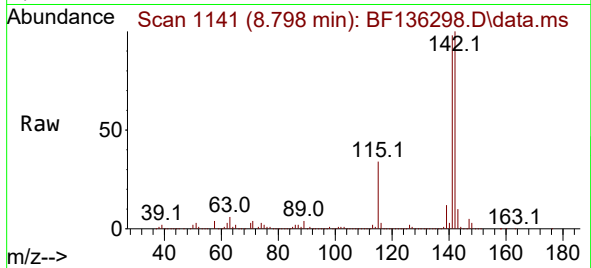
127 14.3 11.8 17.6





#37
2-Methylnaphthalene
Concen: 37.625 ng
RT: 8.798 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

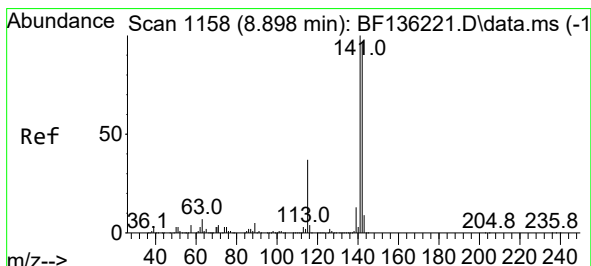
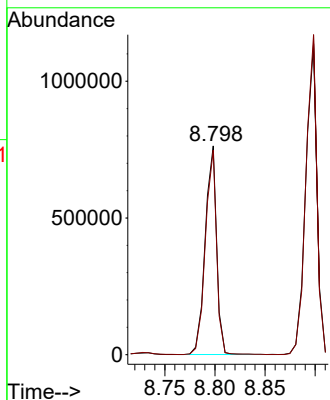
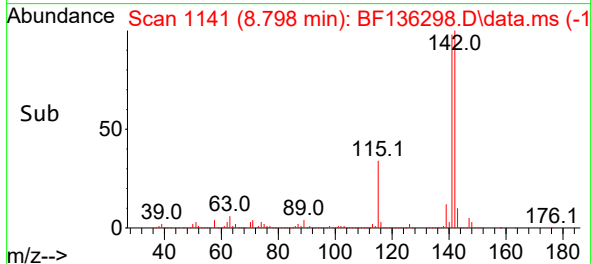
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:142 Resp: 608924
Ion Ratio Lower Upper
142 100
141 97.9 77.8 116.8

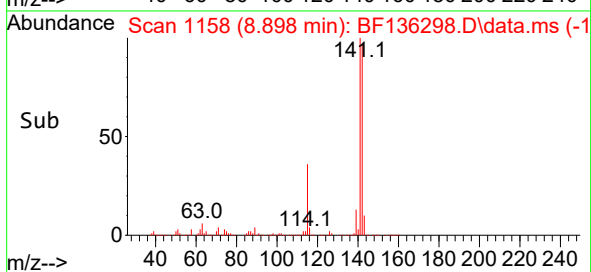
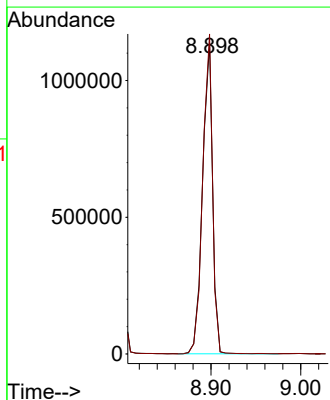
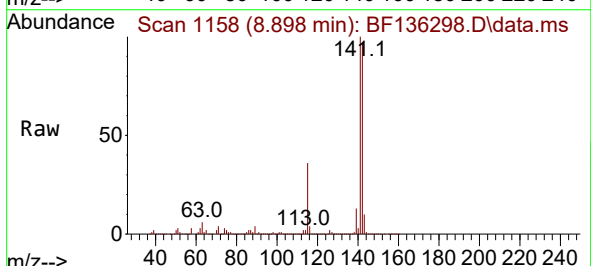
Manual Integrations
APPROVED

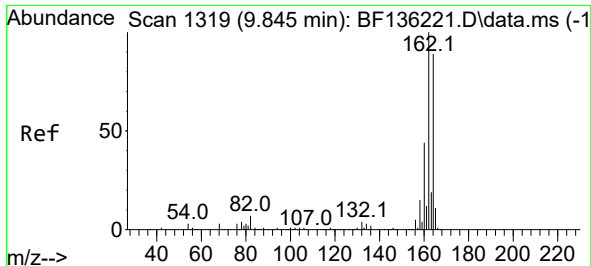
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#38
1-Methylnaphthalene
Concen: 56.005 ng
RT: 8.898 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

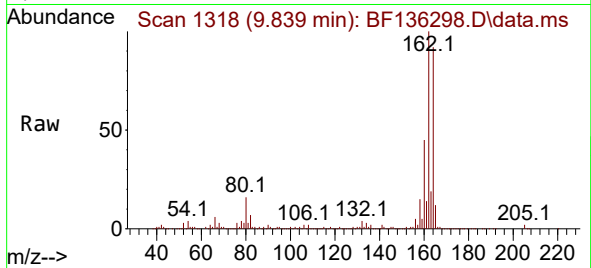
Tgt Ion:142 Resp: 884193
Ion Ratio Lower Upper
142 100
141 102.9 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

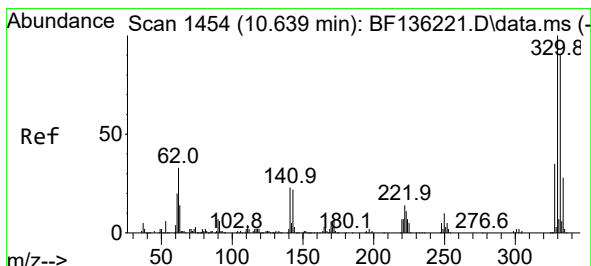
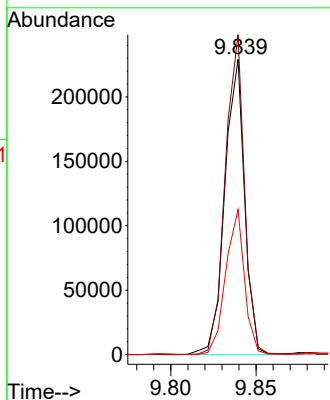
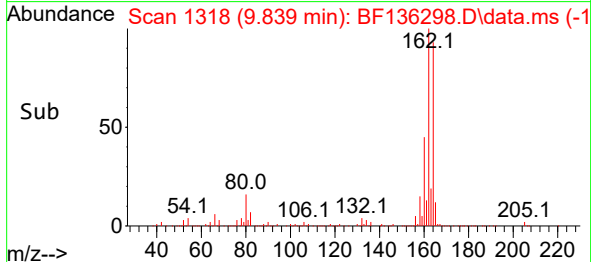
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



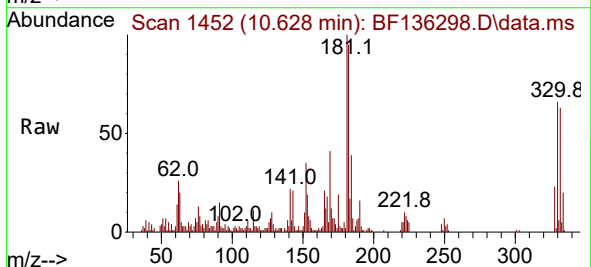
Tgt Ion:164 Resp: 185214
Ion Ratio Lower Upper
164 100
162 108.3 89.5 134.3
160 49.1 39.6 59.4

Manual Integrations
APPROVED

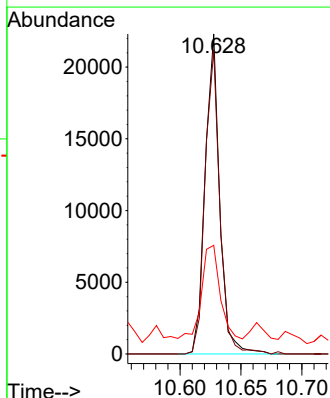
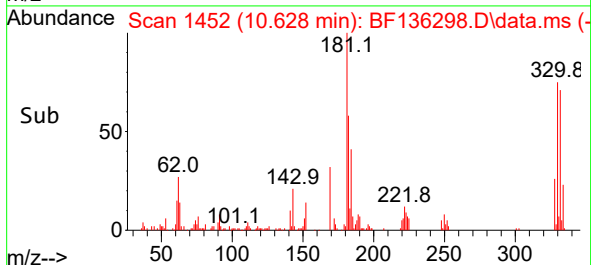
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

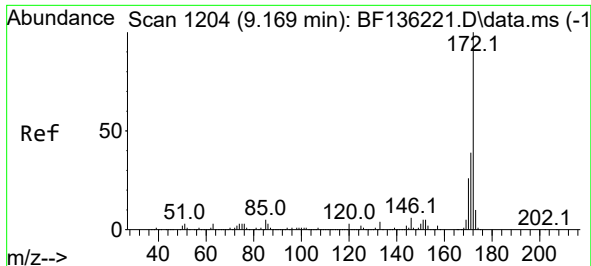


#42
2,4,6-Tribromophenol
Concen: 8.145 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58



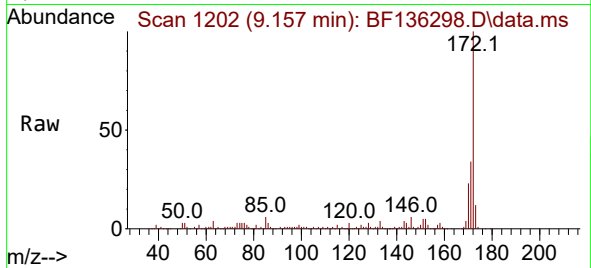
Tgt Ion:330 Resp: 18444
Ion Ratio Lower Upper
330 100
332 96.8 73.0 109.6
141 36.5 24.2 36.2#





#45
2-Fluorobiphenyl
Concen: 8.186 ng
RT: 9.157 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

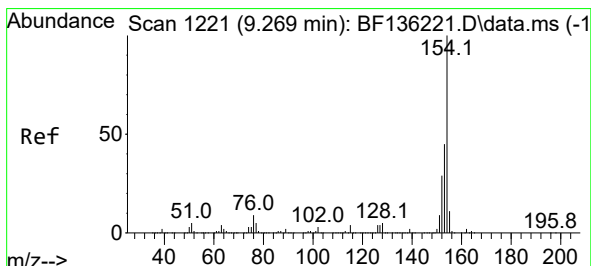
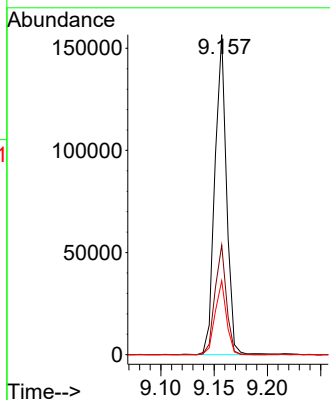
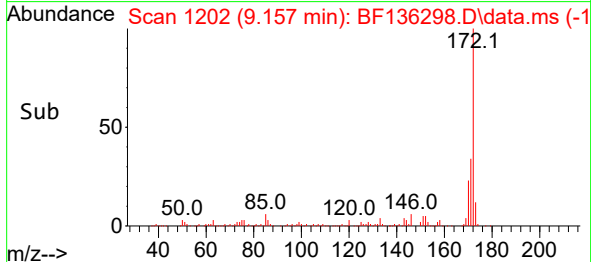
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:172 Resp: 11870
Ion Ratio Lower Upper
172 100
171 34.2 31.5 47.3
170 23.1 20.8 31.2

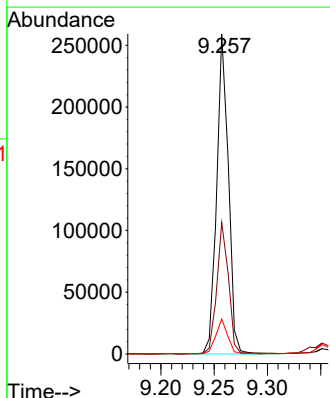
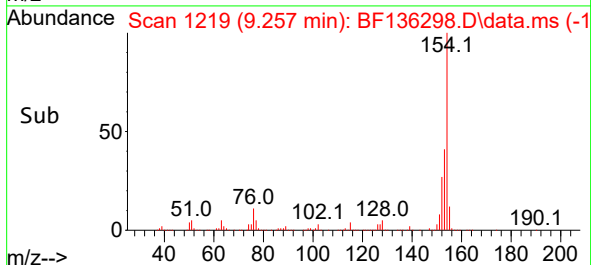
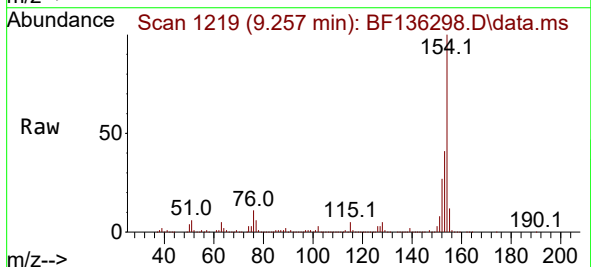
Manual Integrations
APPROVED

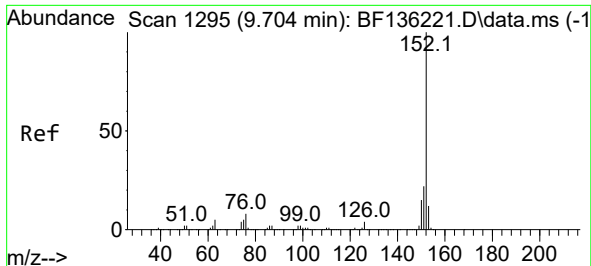
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#46
1,1'-Biphenyl
Concen: 12.080 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

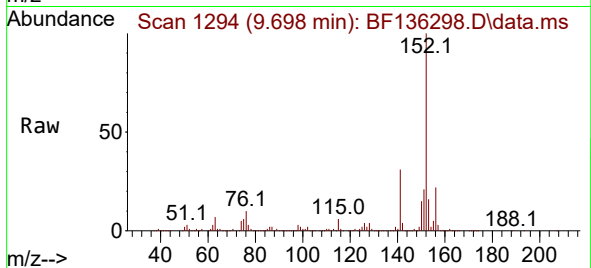
Tgt Ion:154 Resp: 197310
Ion Ratio Lower Upper
154 100
153 41.1 24.6 64.6
76 11.0 0.0 29.4





#49
Acenaphthylene
Concen: 21.105 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

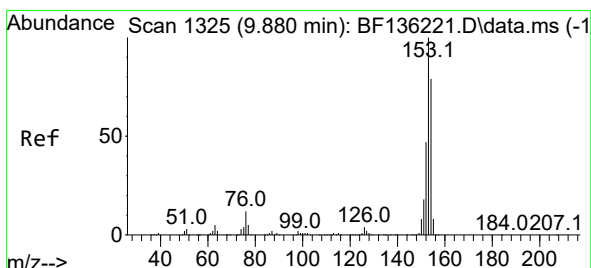
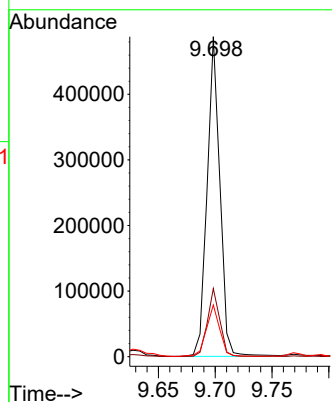
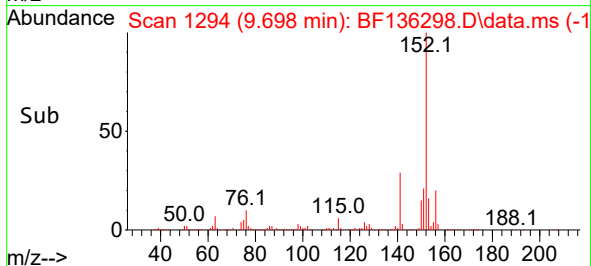
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:152 Resp: 382025
Ion Ratio Lower Upper
152 100
151 21.3 17.5 26.3
153 16.2 9.6 14.4

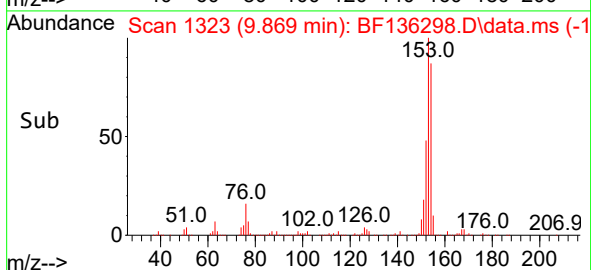
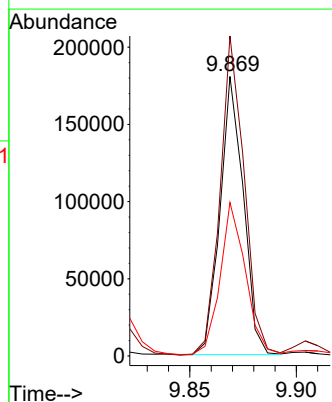
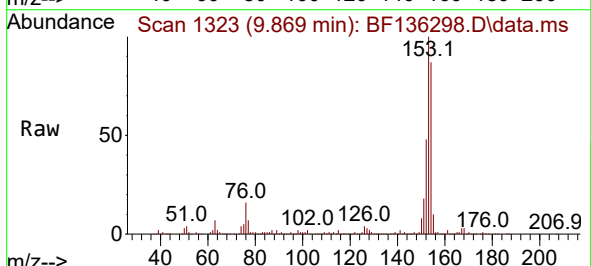
Manual Integrations
APPROVED

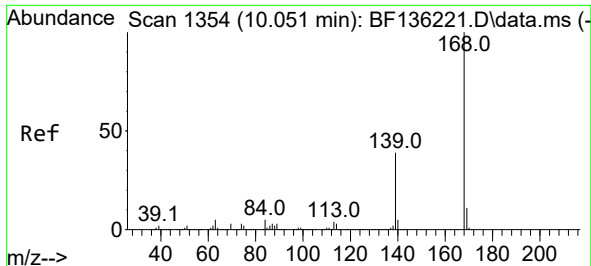
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#52
Acenaphthene
Concen: 11.963 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

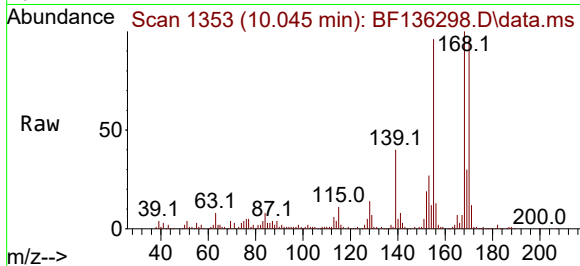
Tgt Ion:154 Resp: 136842
Ion Ratio Lower Upper
154 100
153 114.5 100.8 151.2
152 54.9 47.0 70.6





#55
Dibenzenofuran
Concen: 3.688 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

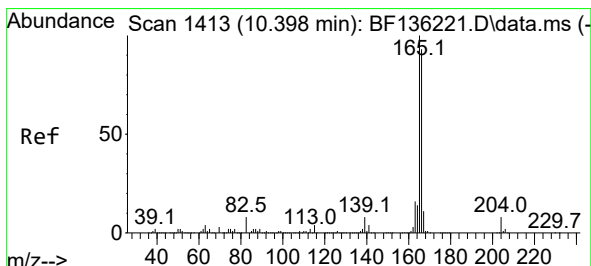
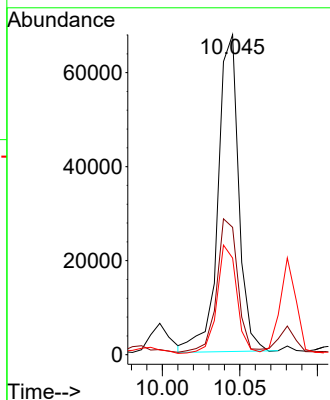
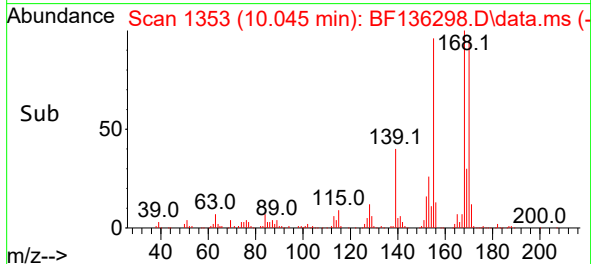
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



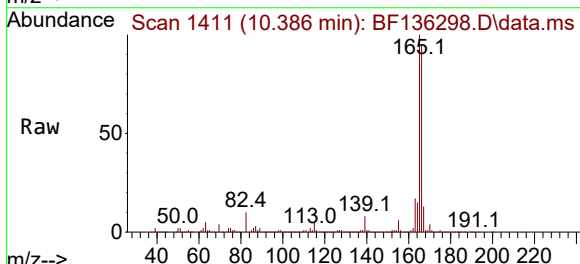
Tgt Ion:168 Resp: 6276
Ion Ratio Lower Upper
168 100
139 39.8 30.9 46.3
169 30.2 9.1 13.7

Manual Integrations
APPROVED

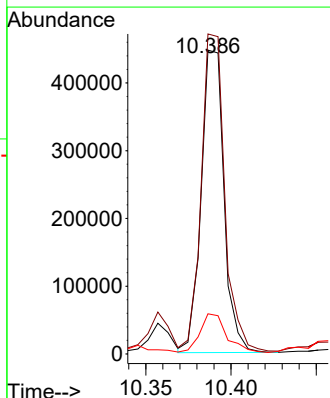
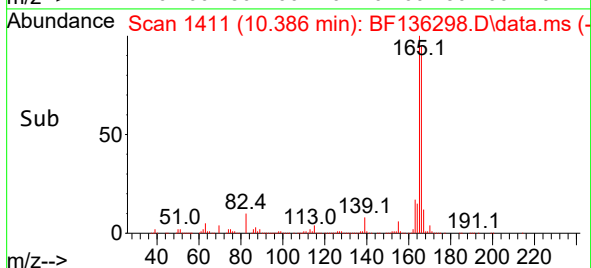
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

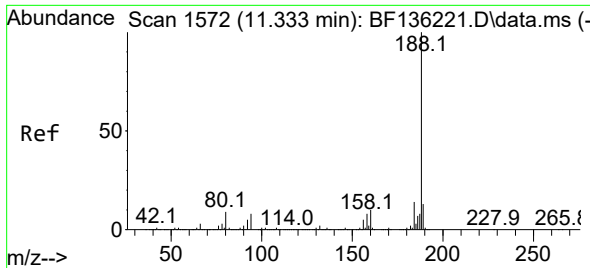


#58
Fluorene
Concen: 31.159 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58



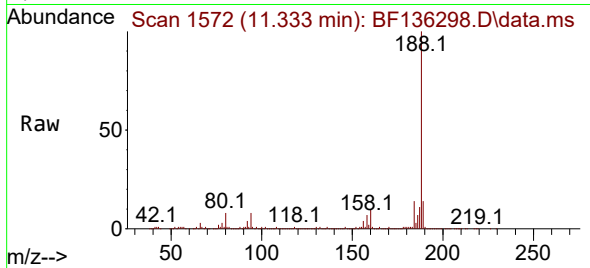
Tgt Ion:166 Resp: 416012
Ion Ratio Lower Upper
166 100
165 105.3 86.2 129.4
167 13.2 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

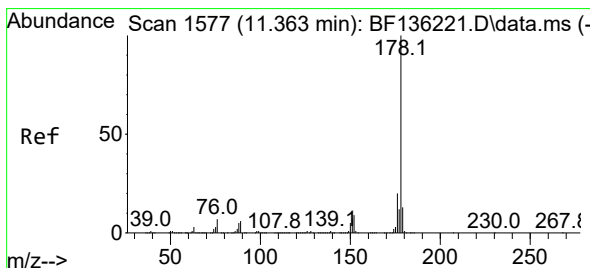
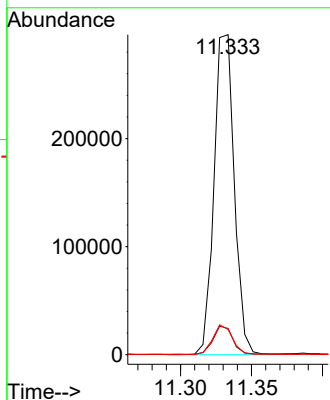
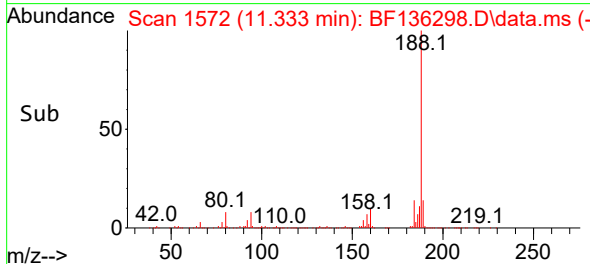
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:188 Resp: 294018
Ion Ratio Lower Upper
188 100
94 8.2 6.7 10.1
80 7.8 7.2 10.8

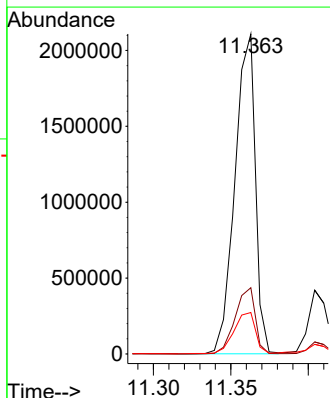
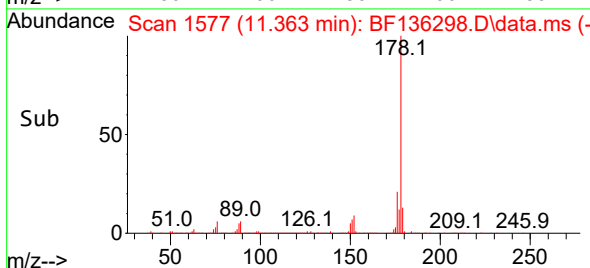
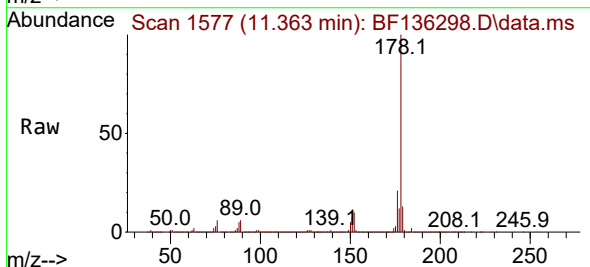
Manual Integrations
APPROVED

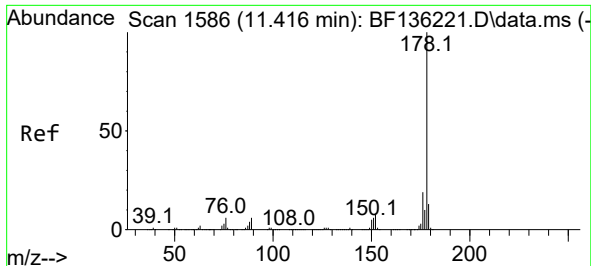
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#71
Phenanthrene
Concen: 117.037 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

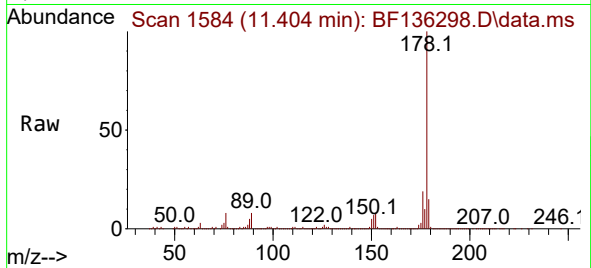
Tgt Ion:178 Resp: 1934054
Ion Ratio Lower Upper
178 100
176 20.7 16.2 24.2
179 12.9 10.3 15.5





#72
 Anthracene
 Concen: 20.017 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF136298.D
 Acq: 29 Nov 2023 22:58

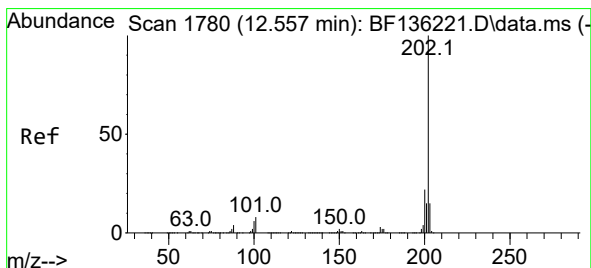
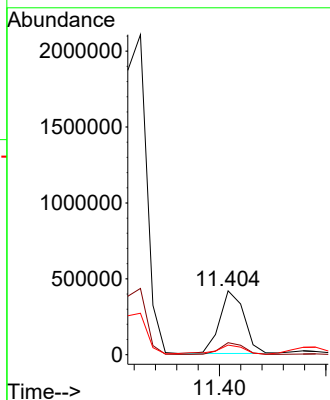
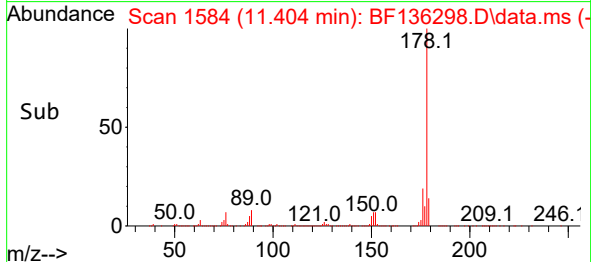
Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL



Tgt Ion:178 Resp: 331720
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.5 23.3
 179 15.0 10.5 15.7

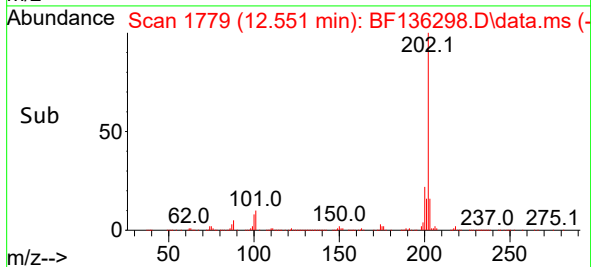
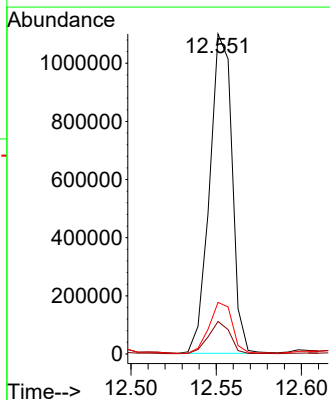
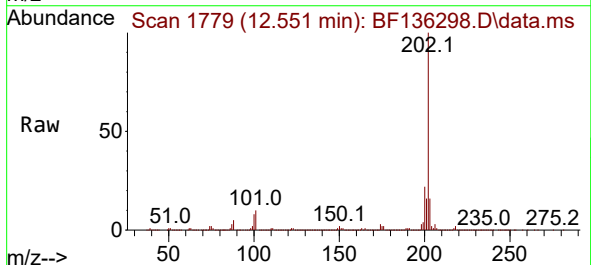
Manual Integrations
 APPROVED

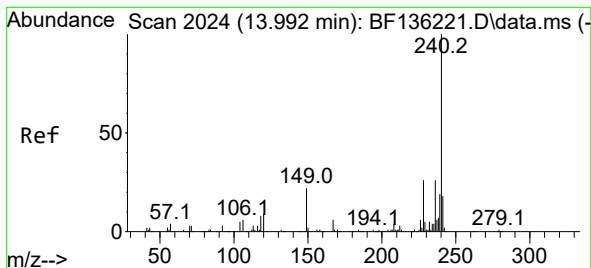
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#75
 Fluoranthene
 Concen: 60.167 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.006 min
 Lab File: BF136298.D
 Acq: 29 Nov 2023 22:58

Tgt Ion:202 Resp: 1009351
 Ion Ratio Lower Upper
 202 100
 101 10.2 0.0 27.8
 203 16.1 0.0 34.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 2024

Delta R.T. -0.006 min

Lab File: BF136298.D

Acq: 29 Nov 2023 22:58

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL

Tgt Ion:240 Resp: 273178

Ion Ratio Lower Upper

240 100

120 10.6 7.4 11.2

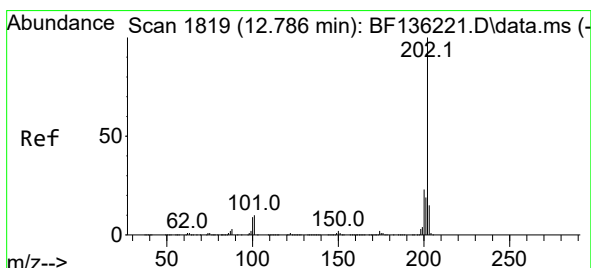
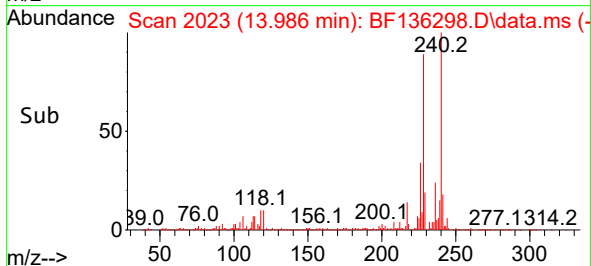
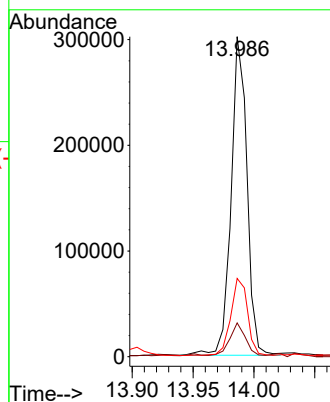
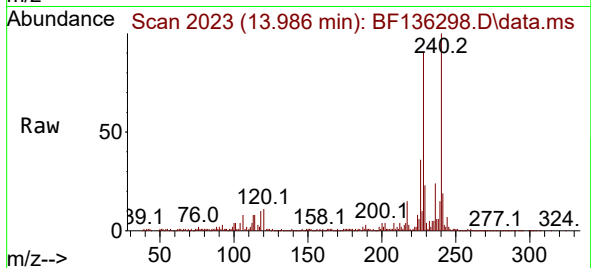
236 24.5 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#78

Pyrene

Concen: 59.342 ng

RT: 12.786 min Scan# 1819

Delta R.T. 0.000 min

Lab File: BF136298.D

Acq: 29 Nov 2023 22:58

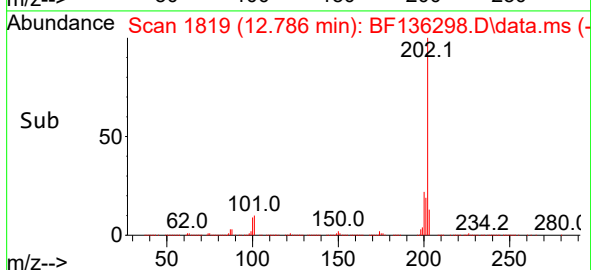
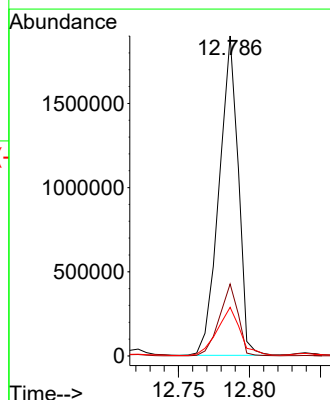
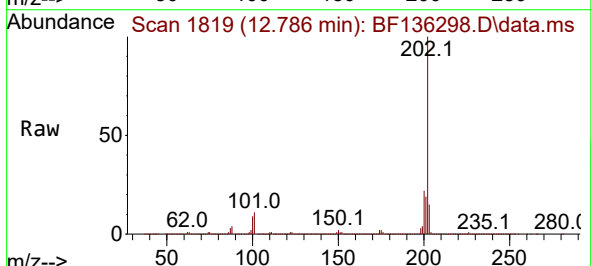
Tgt Ion:202 Resp: 1775377

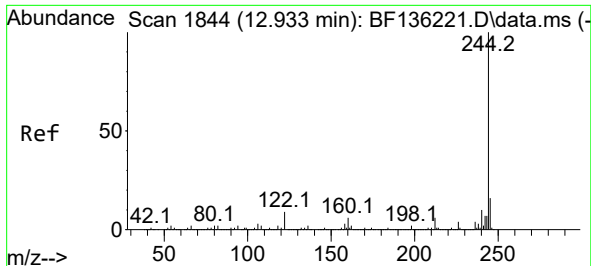
Ion Ratio Lower Upper

202 100

200 22.5 18.4 27.6

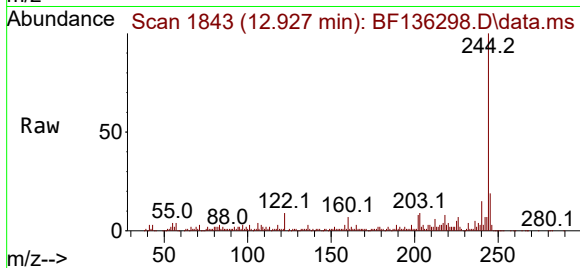
203 15.2 11.8 17.6





#79
Terphenyl-d14
Concen: 4.944 ng
RT: 12.927 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

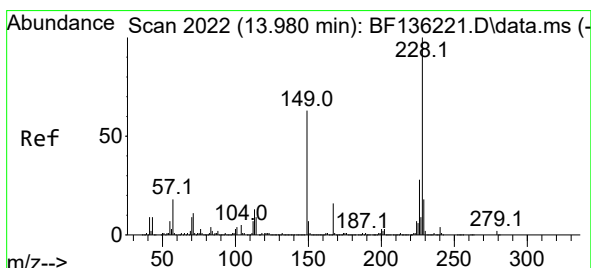
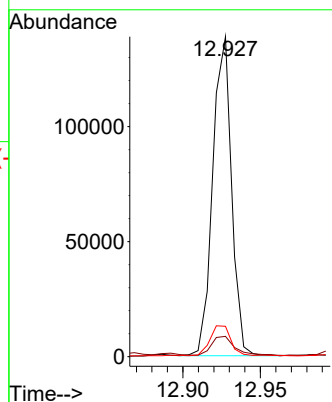
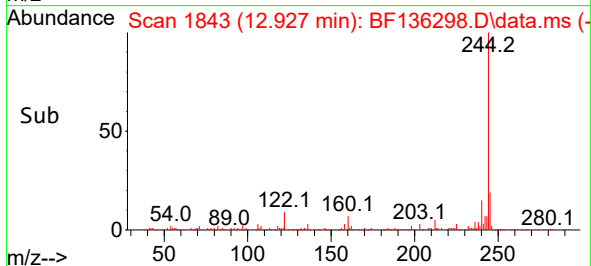
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



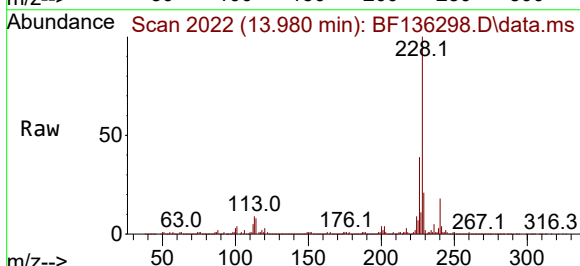
Tgt Ion:244 Resp: 117095
Ion Ratio Lower Upper
244 100
212 6.3 4.6 7.0
122 9.5 7.3 10.9

Manual Integrations
APPROVED

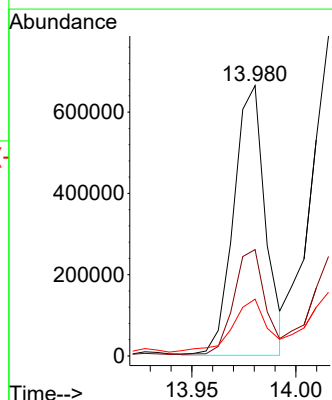
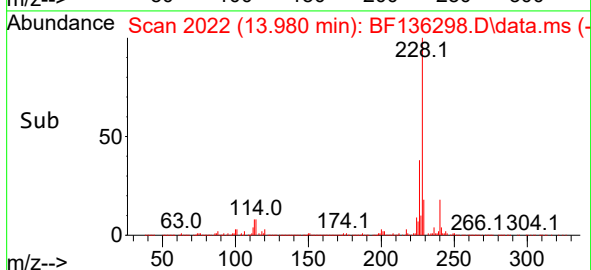
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

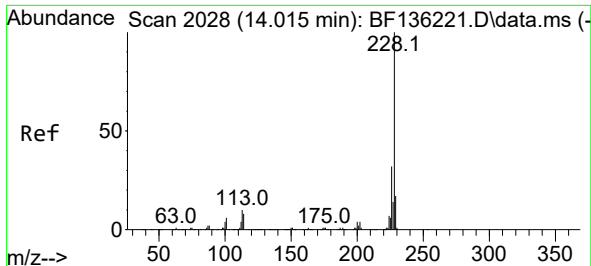


#81
Benzo(a)anthracene
Concen: 34.791 ng m
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58



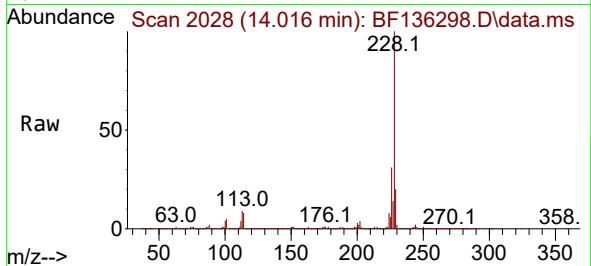
Tgt Ion:228 Resp: 705946
Ion Ratio Lower Upper
228 100
226 39.4 22.6 34.0#
229 21.0 14.0 21.0#





#83
Chrysene
Concen: 36.192 ng
RT: 14.016 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

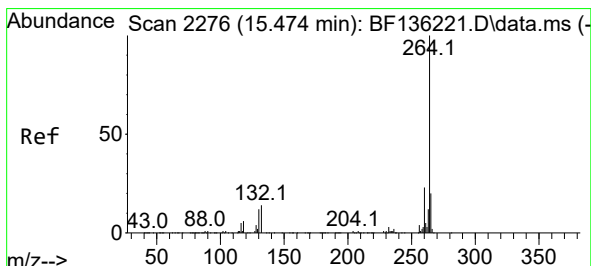
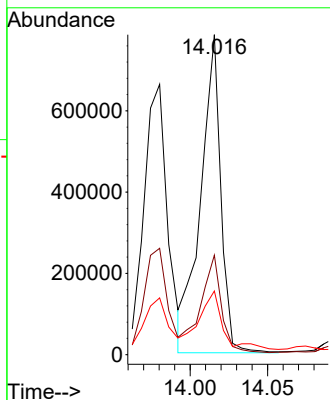
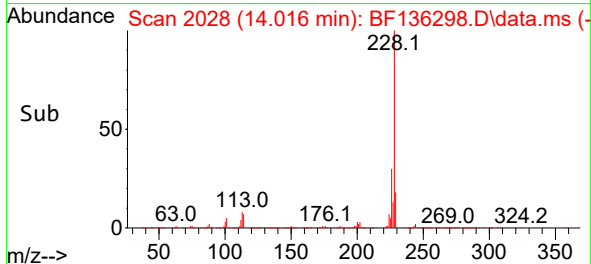
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



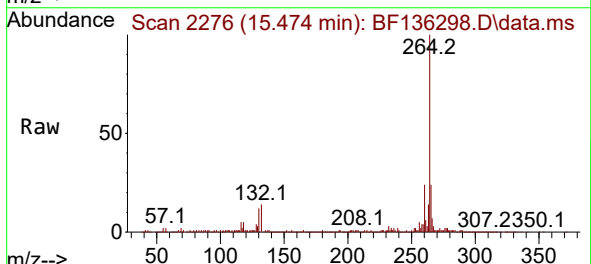
Tgt Ion:228 Resp: 709062
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 19.9 13.9 20.9

Manual Integrations
APPROVED

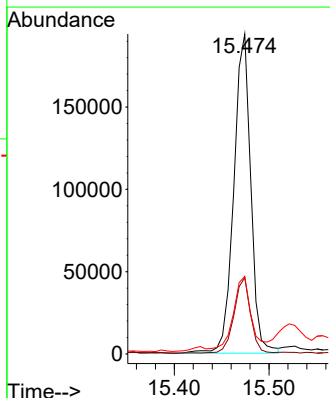
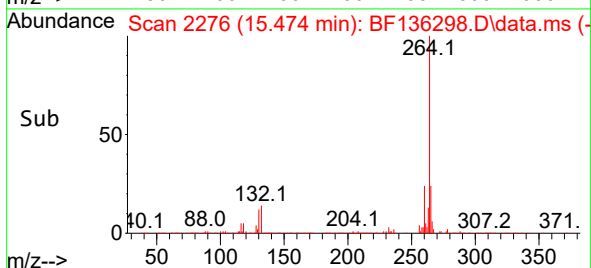
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

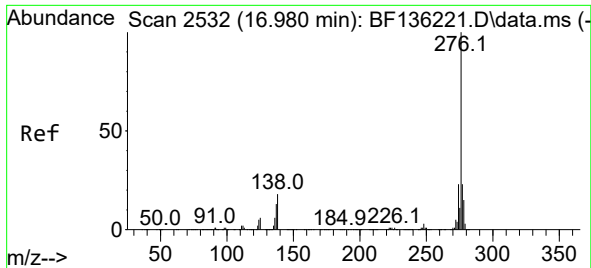


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.474 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58



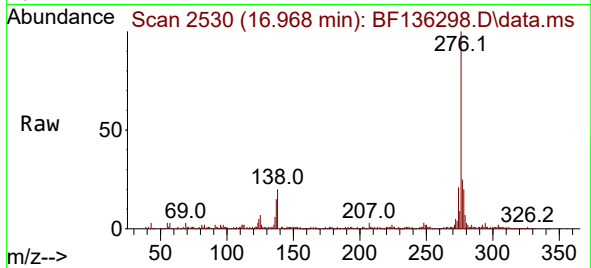
Tgt Ion:264 Resp: 241326
Ion Ratio Lower Upper
264 100
260 23.9 18.6 27.8
265 24.2 15.7 23.5#





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 10.220 ng
 RT: 16.968 min Scan# 2530
 Delta R.T. -0.012 min
 Lab File: BF136298.D
 Acq: 29 Nov 2023 22:58

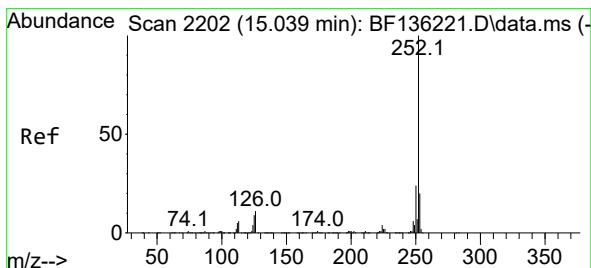
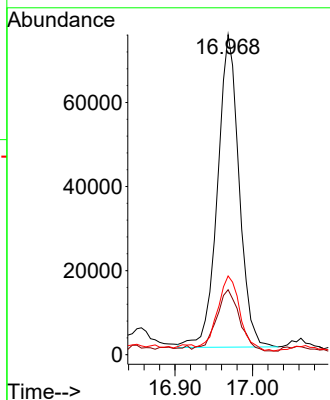
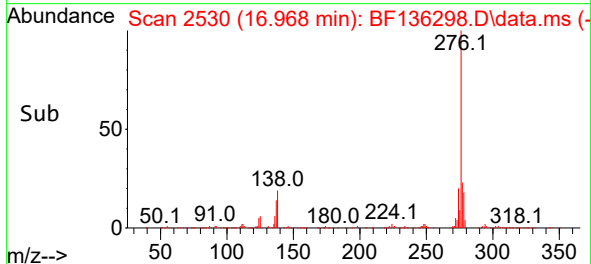
Instrument :
 BNA_F
 ClientSampleId :
 L-3(120FT)(0-5)DL



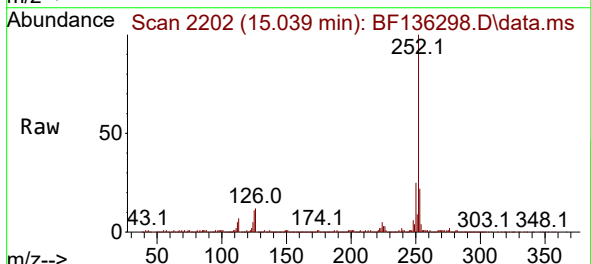
Tgt Ion:276 Resp: 14406
 Ion Ratio Lower Upper
 276 100
 138 21.2 17.7 26.5
 277 25.3 19.6 29.4

Manual Integrations
 APPROVED

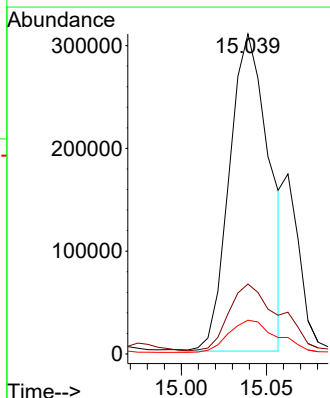
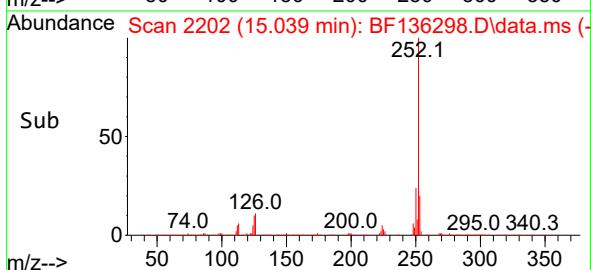
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

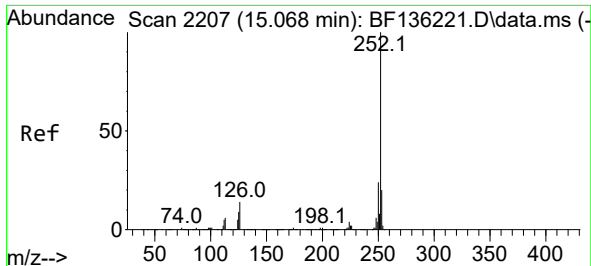


#88
 Benzo(b)fluoranthene
 Concen: 29.643 ng m
 RT: 15.039 min Scan# 2202
 Delta R.T. 0.000 min
 Lab File: BF136298.D
 Acq: 29 Nov 2023 22:58



Tgt Ion:252 Resp: 501894
 Ion Ratio Lower Upper
 252 100
 253 21.8 16.2 24.2
 125 10.6 6.9 10.3#





#89

Benzo(k)fluoranthene

Concen: 7.528 ng m

RT: 15.063 min Scan# 21

Delta R.T. -0.005 min

Lab File: BF136298.D

Acq: 29 Nov 2023 22:58

Instrument :

BNA_F

ClientSampleId :

L-3(120FT)(0-5)DL

Tgt Ion:252 Resp: 121048

Ion Ratio Lower Upper

252 100

253 23.2 15.6 23.4

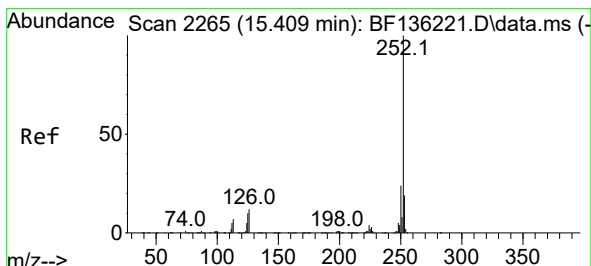
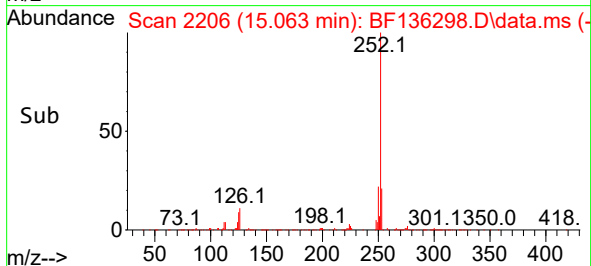
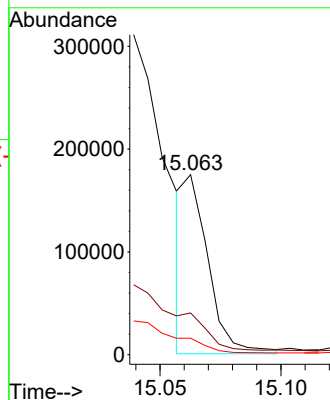
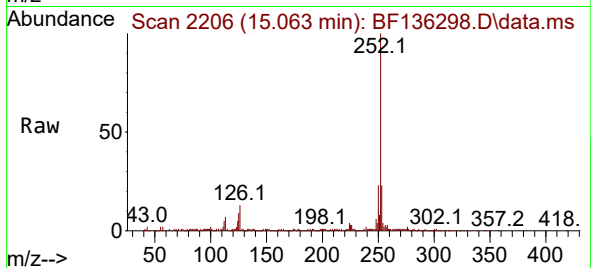
125 9.1 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#90

Benzo(a)pyrene

Concen: 34.122 ng

RT: 15.410 min Scan# 2265

Delta R.T. 0.001 min

Lab File: BF136298.D

Acq: 29 Nov 2023 22:58

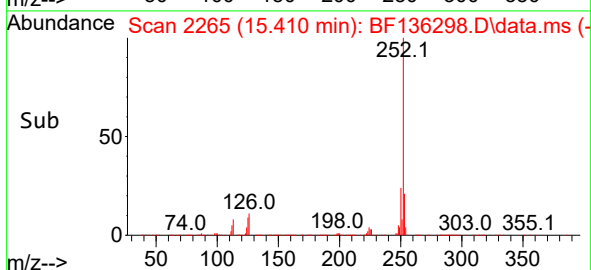
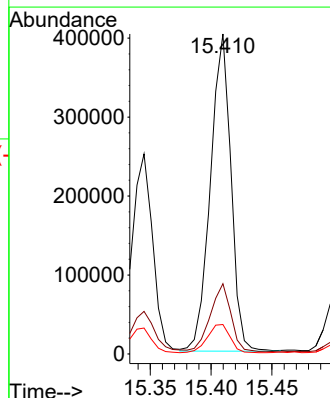
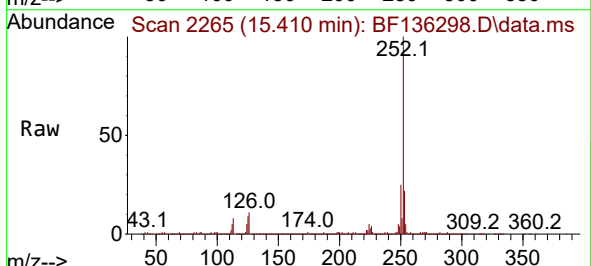
Tgt Ion:252 Resp: 472268

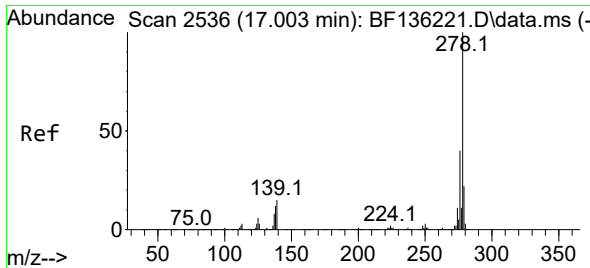
Ion Ratio Lower Upper

252 100

253 22.0 15.5 23.3

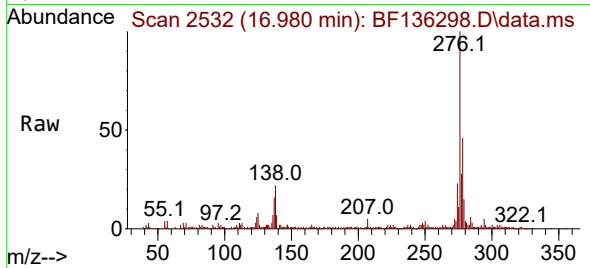
125 9.2 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 5.894 ng
RT: 16.980 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

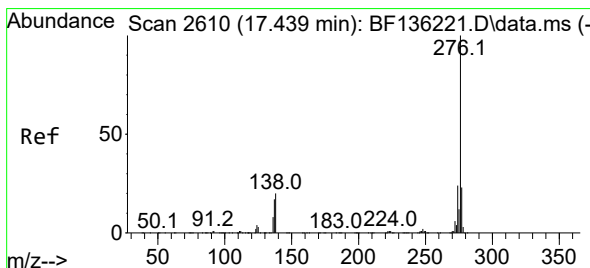
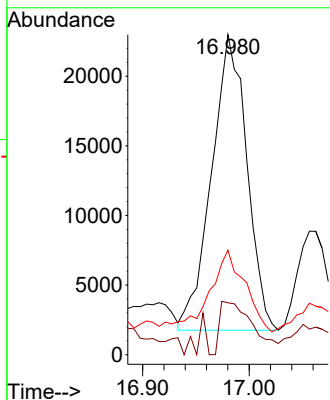
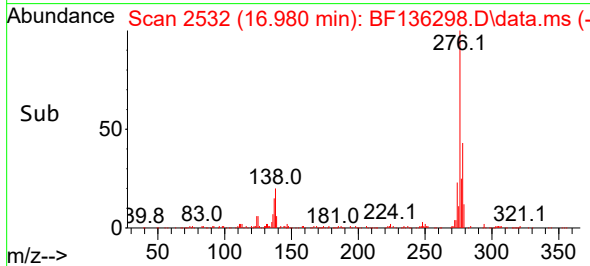
Instrument :
BNA_F
ClientSampleId :
L-3(120FT)(0-5)DL



Tgt Ion:278 Resp: 4880
Ion Ratio Lower Upper
278 100
139 16.2 11.7 17.5
279 32.7 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: 12.501 ng
RT: 17.421 min Scan# 2607
Delta R.T. -0.018 min
Lab File: BF136298.D
Acq: 29 Nov 2023 22:58

Tgt Ion:276 Resp: 160345
Ion Ratio Lower Upper
276 100
277 23.8 18.6 27.8
138 21.9 15.8 23.8

