

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
 Data File : BF136089.D
 Acq On : 01 Nov 2023 21:37
 Operator : CG\JU
 Sample : 05005-04 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 N-3(0-5)

Manual Integrations
 APPROVED

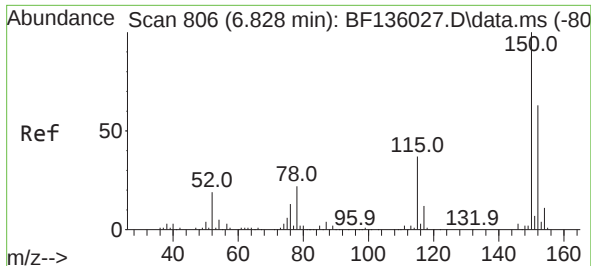
Reviewed By :Yogesh Patel 11/02/2023
 Supervised By :mohammad ahmed 11/02/2023

Quant Time: Nov 01 22:44:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

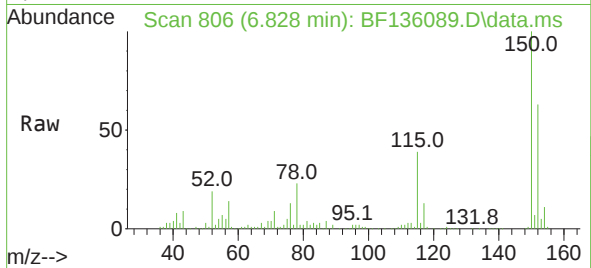
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	132081	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	507743	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	228226	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	345161	20.000	ng	0.00
76) Chrysene-d12	14.015	240	275839	20.000	ng	0.00
86) Perylene-d12	15.504	264	217648	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	416090	49.504	ng	0.00
7) Phenol-d6	6.451	99	510914	48.786	ng	0.00
23) Nitrobenzene-d5	7.381	82	292746	34.757	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	106010	43.517	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	563625	39.368	ng	0.00
79) Terphenyl-d14	12.951	244	502460	28.308	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	210601	8.601	ng	99
37) 2-Methylnaphthalene	8.816	142	69009	4.203	ng	100
38) 1-Methylnaphthalene	8.916	142	57043	3.734	ng	99
49) Acenaphthylene	9.722	152	66756	3.336	ng	97
52) Acenaphthene	9.892	154	26297	2.067	ng	95
58) Fluorene	10.410	166	72322	5.208	ng	97
71) Phenanthrene	11.380	178	493928	28.421	ng	99
72) Anthracene	11.427	178	103316	5.802	ng	100
75) Fluoranthene	12.586	202	498182	27.904	ng	99
78) Pyrene	12.810	202	613846	25.241	ng	98
81) Benzo(a)anthracene	14.004	228	270053m	14.788	ng	
83) Chrysene	14.039	228	274645	15.271	ng	98
87) Indeno(1,2,3-cd)pyrene	17.015	276	90650	6.373	ng	97
88) Benzo(b)fluoranthene	15.068	252	244237m	18.965	ng	
89) Benzo(k)fluoranthene	15.092	252	65923m	5.173	ng	
90) Benzo(a)pyrene	15.439	252	175117	14.634	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	25674	2.203	ng	# 78
92) Benzo(g,h,i)perylene	17.480	276	96317	9.718	ng	98

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

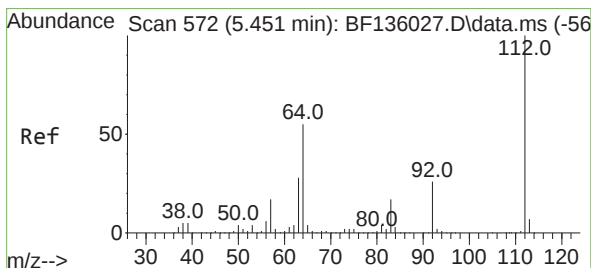
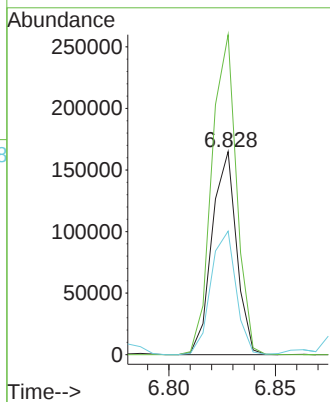
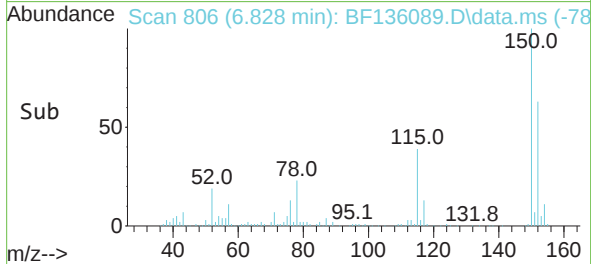
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



Tgt Ion:152 Resp: 13208
Ion Ratio Lower Upper
152 100
150 157.6 126.4 189.6
115 60.8 47.0 70.4

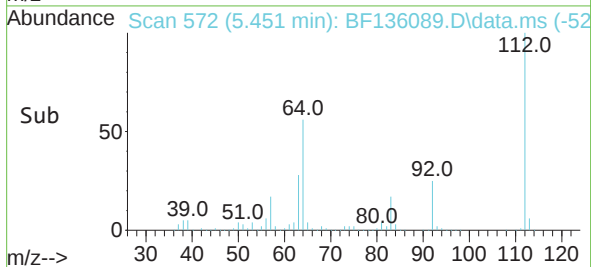
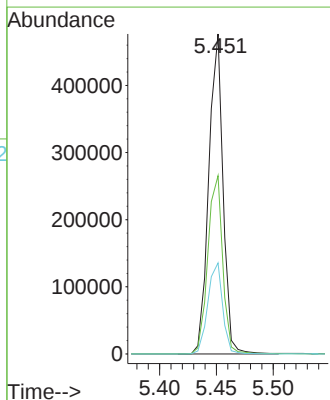
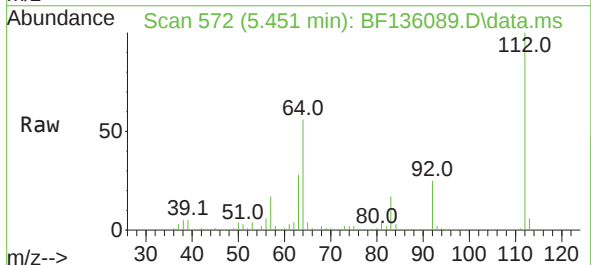
Manual Integrations
APPROVED

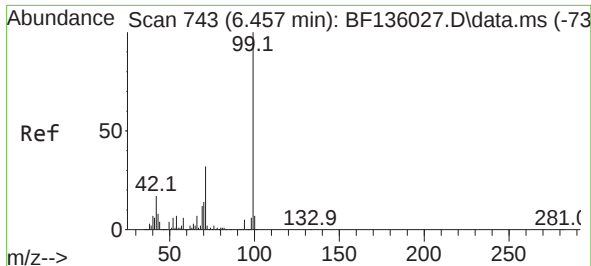
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#5
2-Fluorophenol
Concen: 49.504 ng
RT: 5.451 min Scan# 572
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

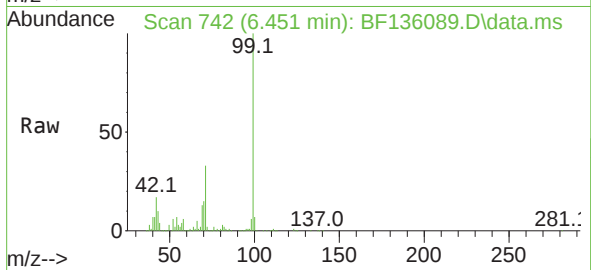
Tgt Ion:112 Resp: 416090
Ion Ratio Lower Upper
112 100
64 55.7 43.9 65.9
63 28.5 22.4 33.6





#7
Phenol-d6
Concen: 48.786 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

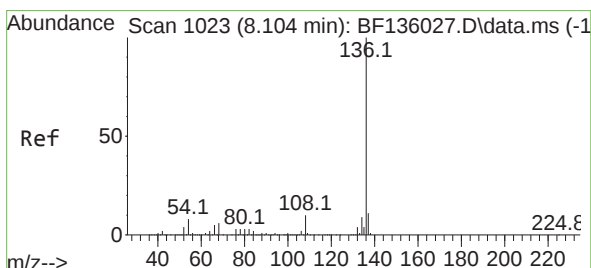
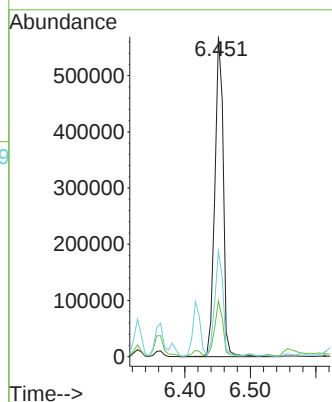
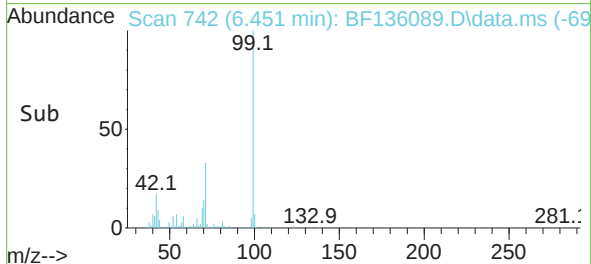
Instrument :
BNA_F
Client Sample Id :
N-3(0-5)



Tgt Ion: 99 Resp: 510914
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 33.1 25.9 38.9

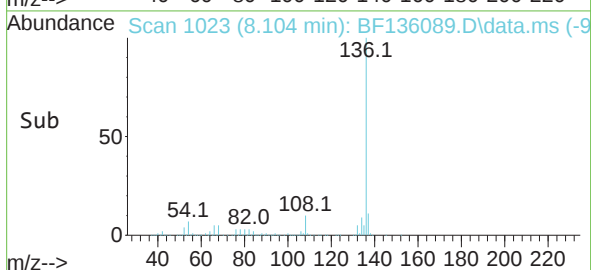
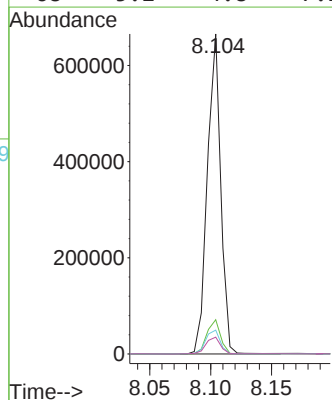
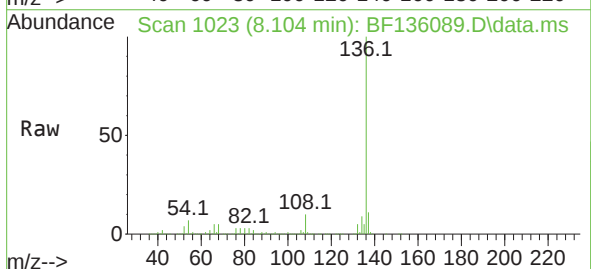
Manual Integrations
APPROVED

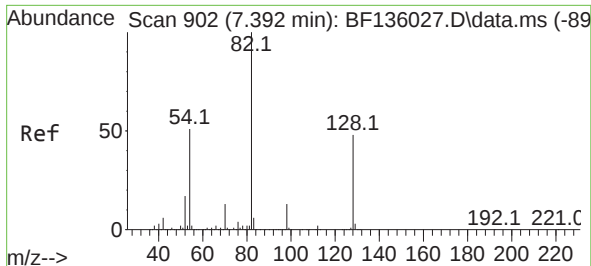
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

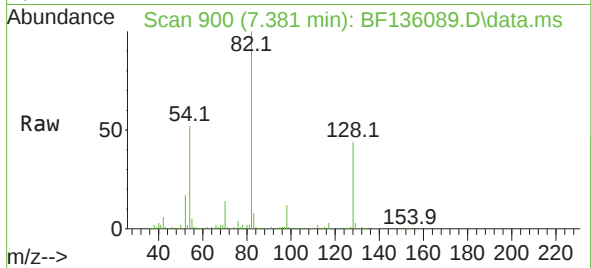
Tgt Ion:136 Resp: 507743
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.5 6.6 9.8
68 5.2 4.8 7.2





#23
Nitrobenzene-d5
Concen: 34.757 ng
RT: 7.381 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

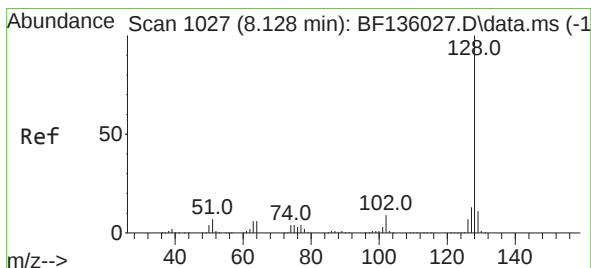
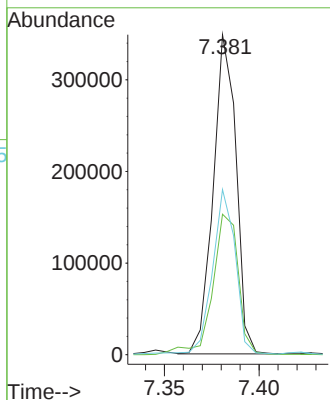
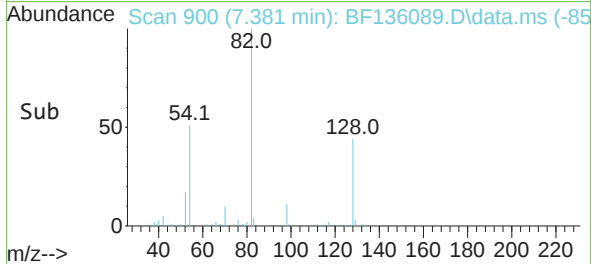
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



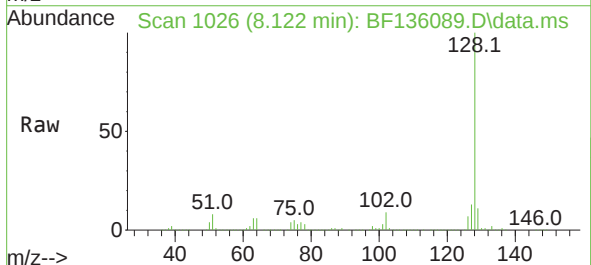
Tgt Ion: 82 Resp: 292740
Ion Ratio Lower Upper
82 100
128 43.9 38.6 57.8
54 51.6 40.8 61.2

Manual Integrations
APPROVED

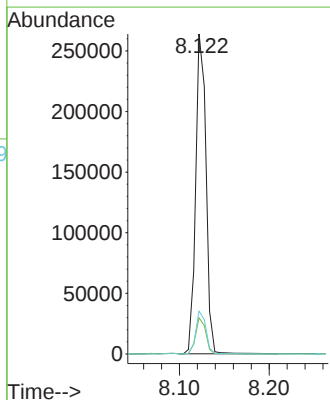
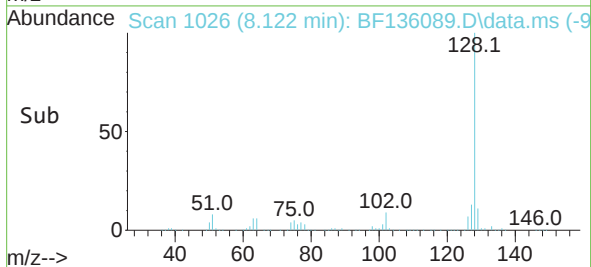
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023

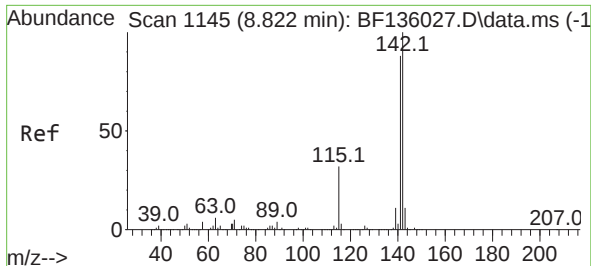


#31
Naphthalene
Concen: 8.601 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37



Tgt Ion:128 Resp: 210601
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.3 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.203 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

Instrument :

BNA_F

ClientSampleId :

N-3(0-5)

Tgt Ion:142 Resp: 69009

Ion Ratio Lower Upper

142 100

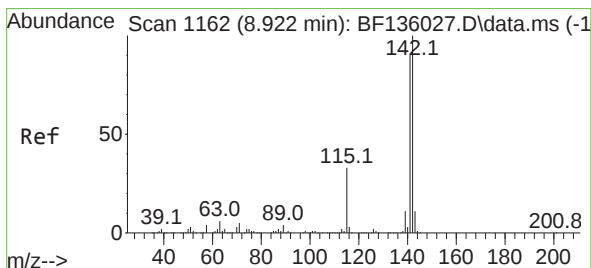
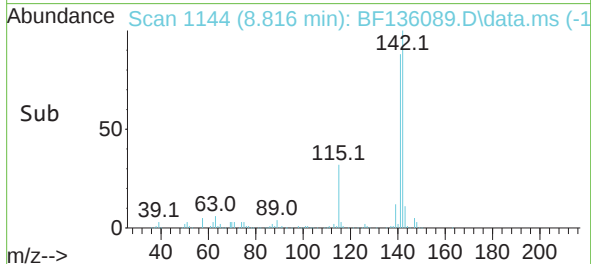
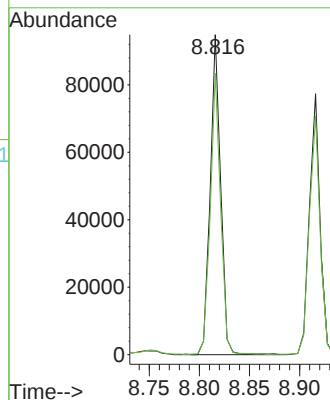
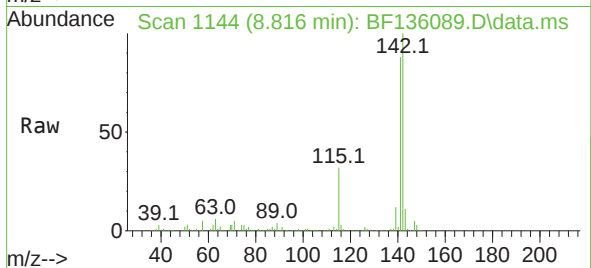
141 87.9 70.4 105.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#38

1-Methylnaphthalene

Concen: 3.734 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136089.D

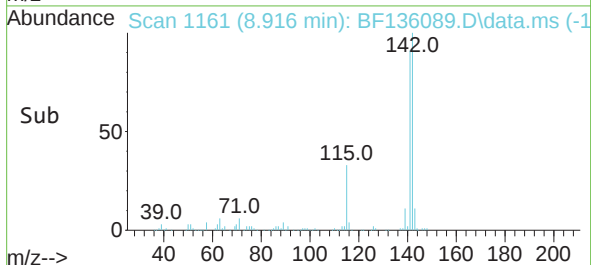
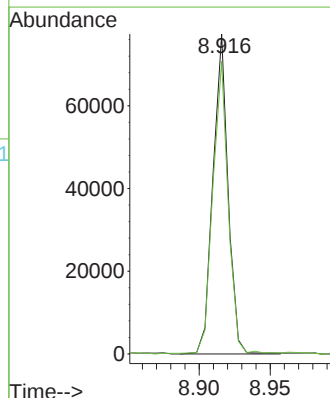
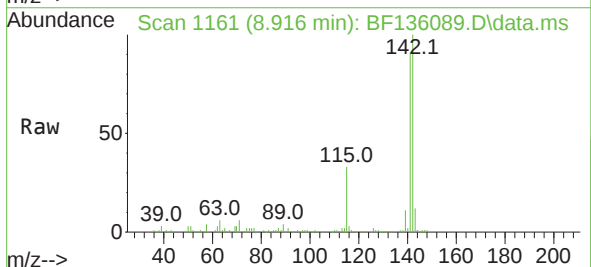
Acq: 01 Nov 2023 21:37

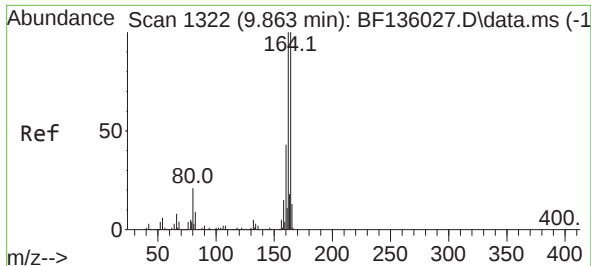
Tgt Ion:142 Resp: 57043

Ion Ratio Lower Upper

142 100

141 91.4 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Instrument :

BNA_F

ClientSampleId :

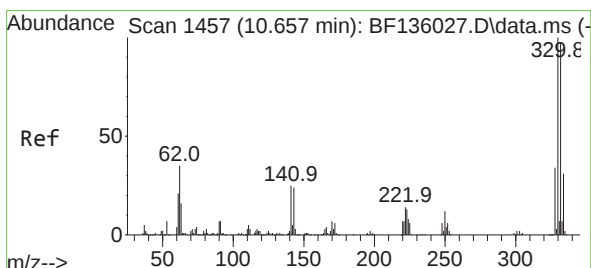
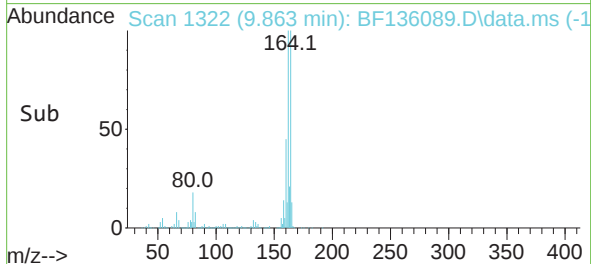
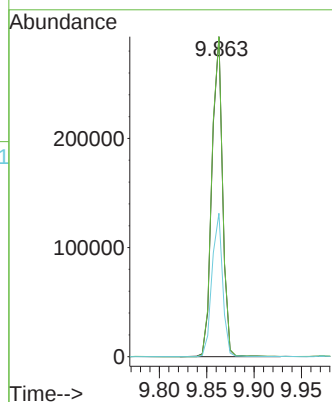
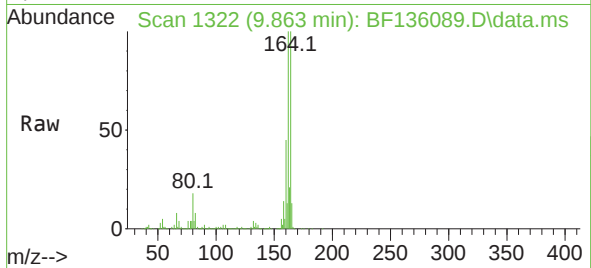
N-3(0-5)

Tgt Ion:164 Resp: 228220
Ion Ratio Lower Upper
164 100
162 99.9 80.1 120.1
160 44.8 34.8 52.2

Manual Integrations

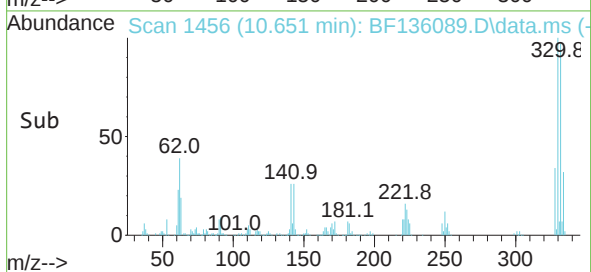
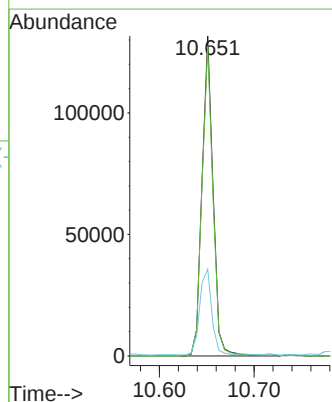
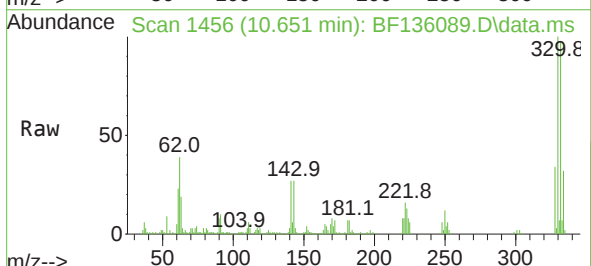
APPROVED

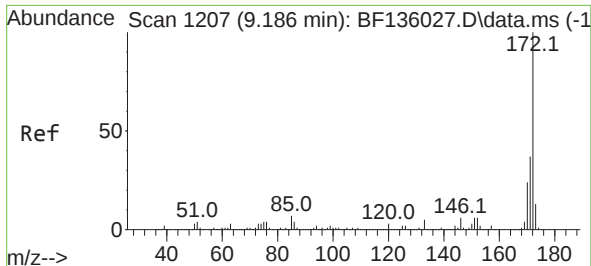
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#42
2,4,6-Tribromophenol
Concen: 43.517 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

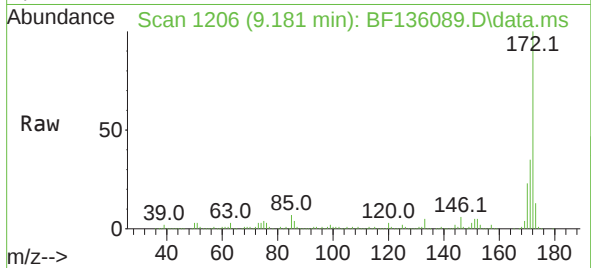
Tgt Ion:330 Resp: 106010
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 29.5 23.2 34.8





#45
2-Fluorobiphenyl
Concen: 39.368 ng
RT: 9.181 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

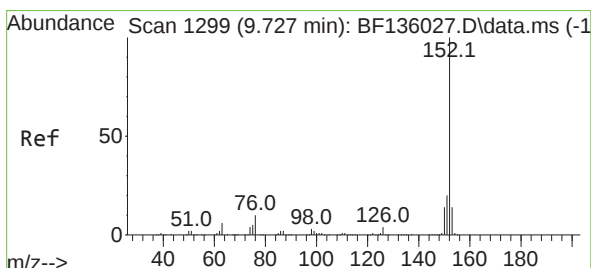
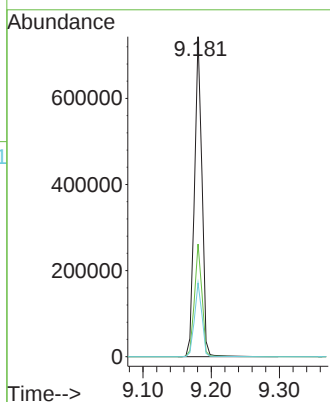
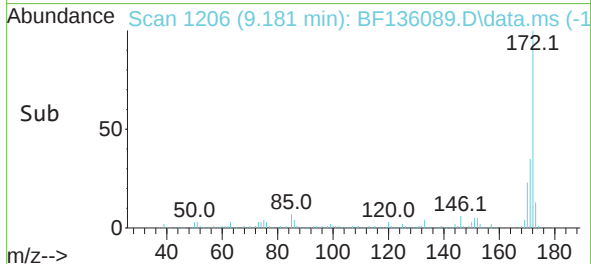
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



Tgt Ion:172 Resp: 56362
Ion Ratio Lower Upper
172 100
171 35.2 29.4 44.0
170 23.1 19.3 28.9

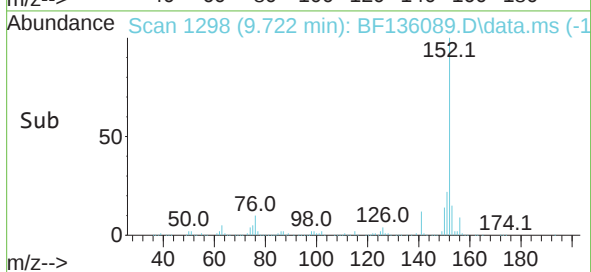
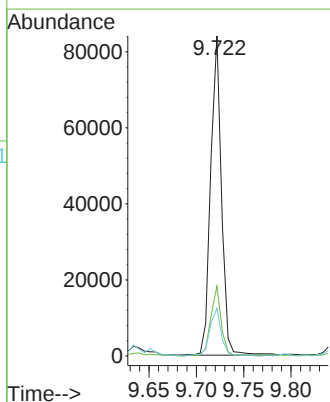
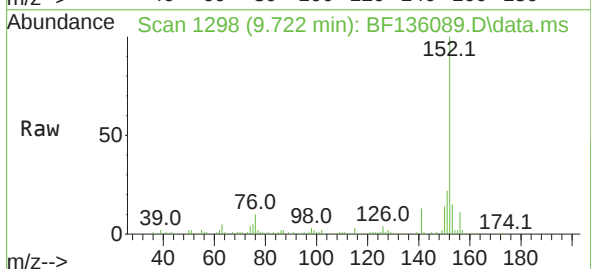
Manual Integrations
APPROVED

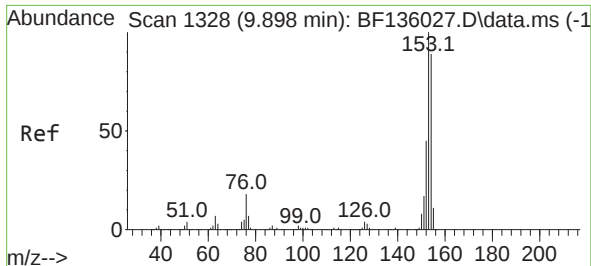
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#49
Acenaphthylene
Concen: 3.336 ng
RT: 9.722 min Scan# 1298
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

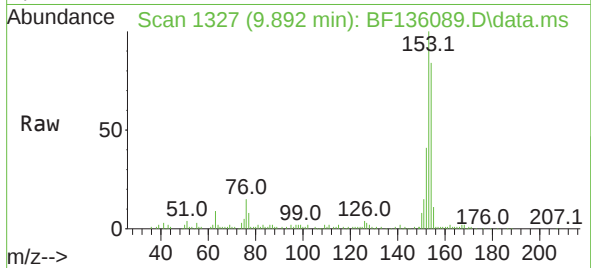
Tgt Ion:152 Resp: 66756
Ion Ratio Lower Upper
152 100
151 21.8 16.1 24.1
153 14.9 11.4 17.2





#52
Acenaphthene
Concen: 2.067 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

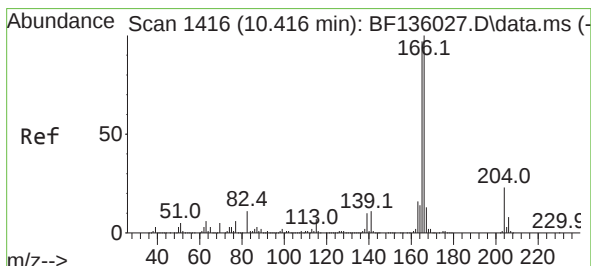
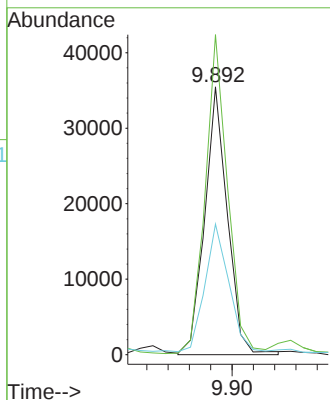
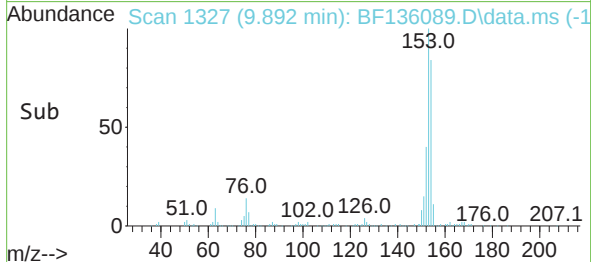
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



Tgt Ion:154 Resp: 2629
Ion Ratio Lower Upper
154 100
153 119.5 89.9 134.9
152 48.8 40.2 60.2

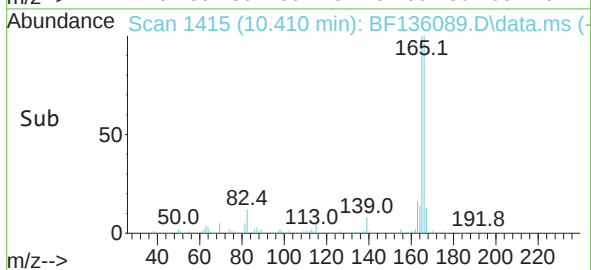
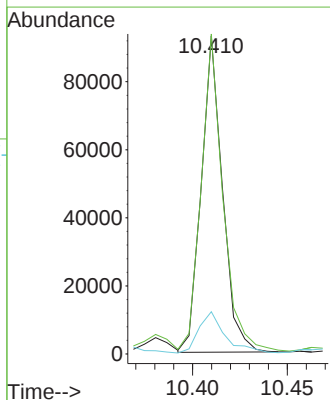
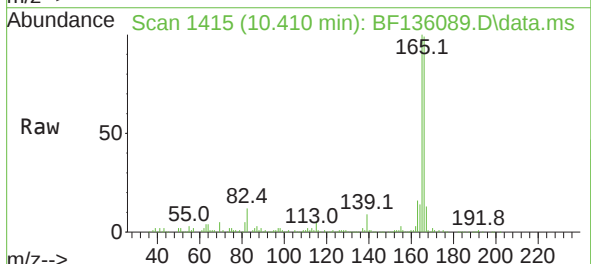
Manual Integrations
APPROVED

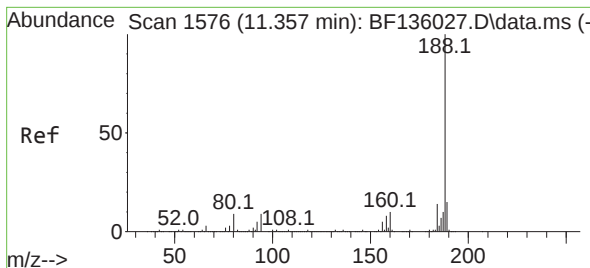
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#58
Fluorene
Concen: 5.208 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Tgt Ion:166 Resp: 72322
Ion Ratio Lower Upper
166 100
165 100.6 77.7 116.5
167 13.3 10.6 16.0





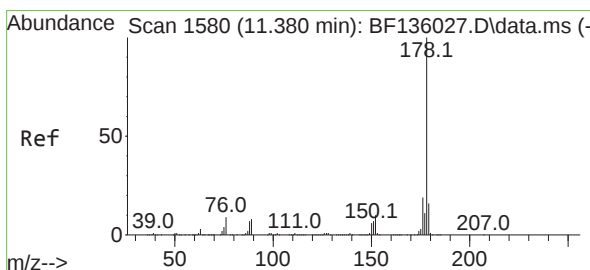
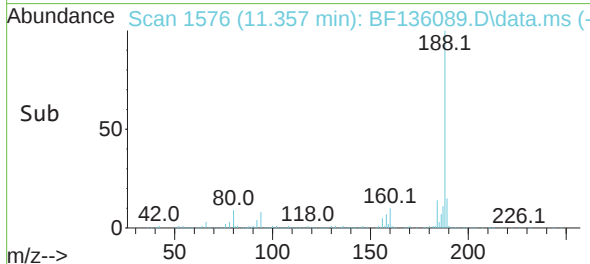
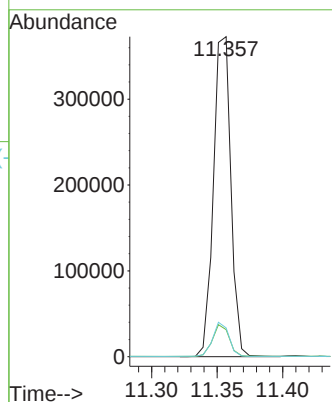
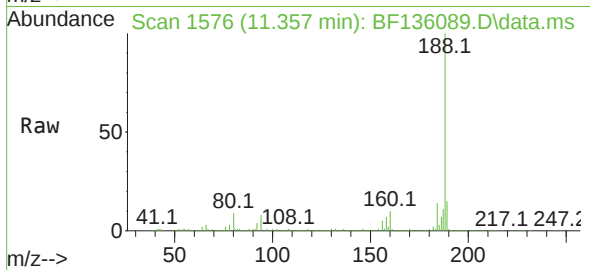
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Instrument :
BNA_F
ClientSampleId :
N-3(0-5)

Tgt Ion:188 Resp: 34516
Ion Ratio Lower Upper
188 100
94 8.4 7.2 10.8
80 9.0 7.4 11.0

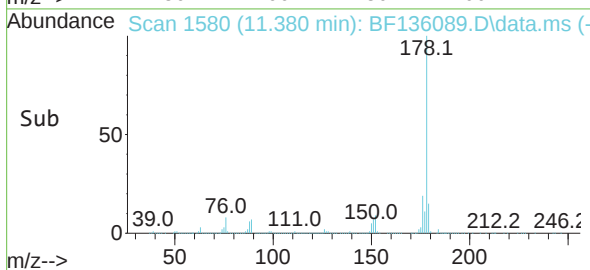
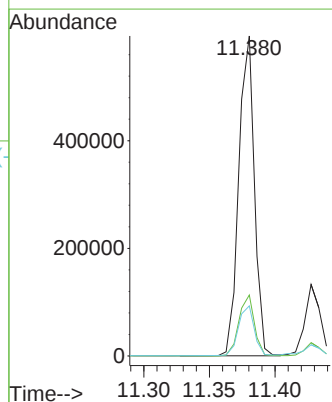
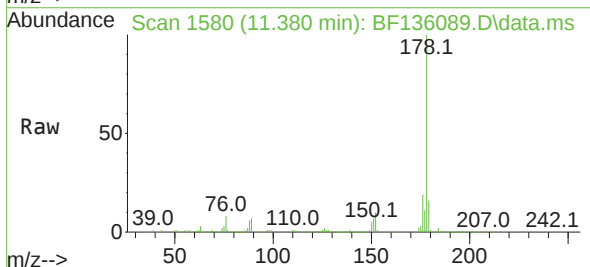
Manual Integrations
APPROVED

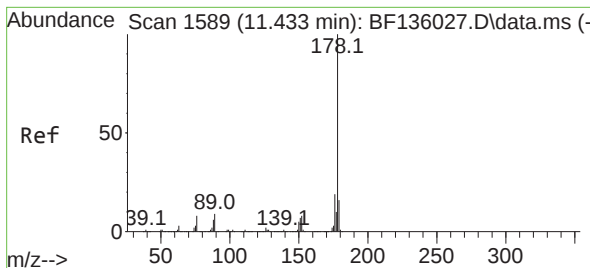
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#71
Phenanthrene
Concen: 28.421 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Tgt Ion:178 Resp: 493928
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.6 12.9 19.3





#72

Anthracene

Concen: 5.802 ng

RT: 11.427 min Scan# 1589

Delta R.T. -0.006 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

Instrument :

BNA_F

ClientSampleId :

N-3(0-5)

Tgt Ion:178 Resp: 103310

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

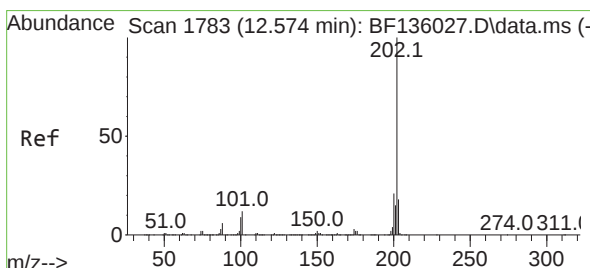
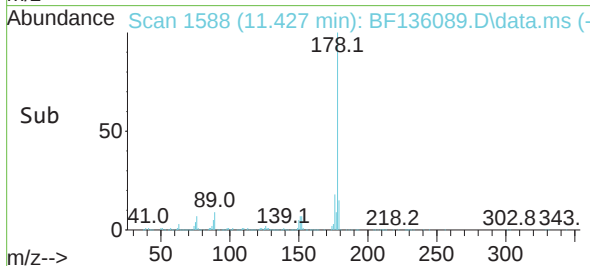
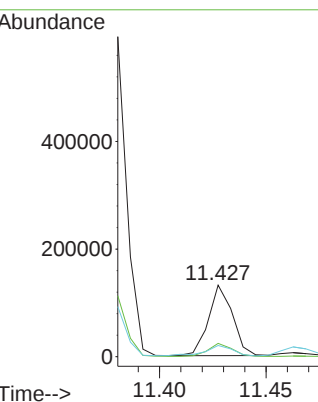
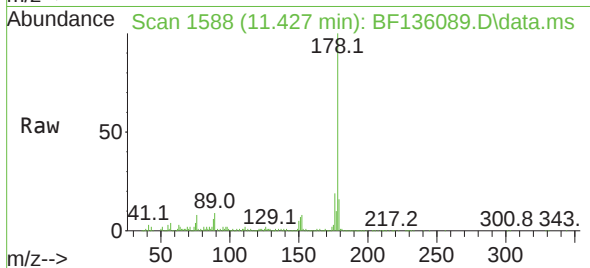
179 15.6 12.6 18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#75

Fluoranthene

Concen: 27.904 ng

RT: 12.586 min Scan# 1785

Delta R.T. 0.012 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

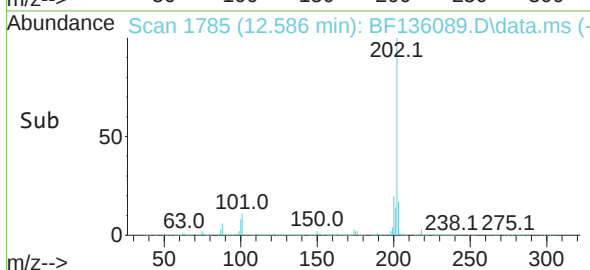
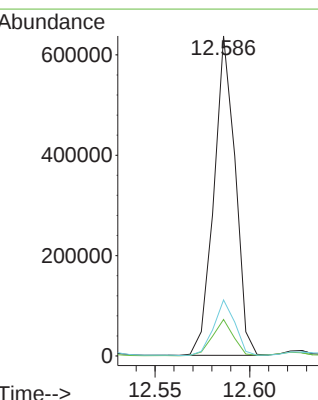
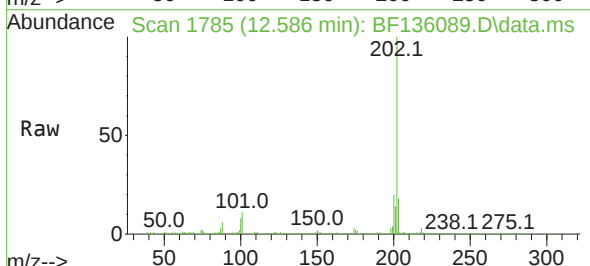
Tgt Ion:202 Resp: 498182

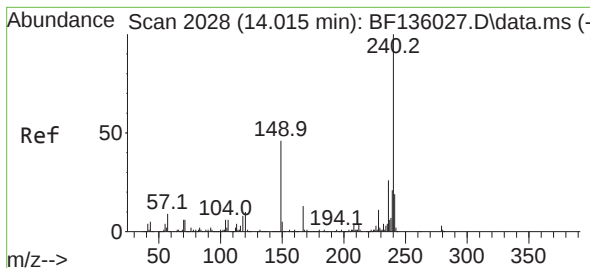
Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.8

203 17.5 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.015 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

Instrument :

BNA_F

ClientSampleId :

N-3(0-5)

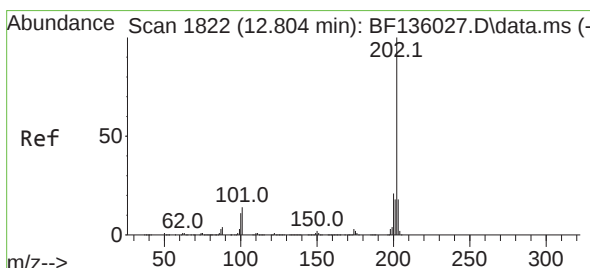
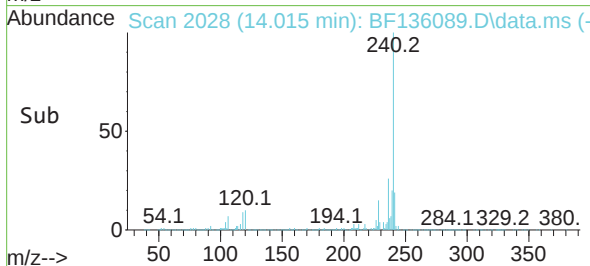
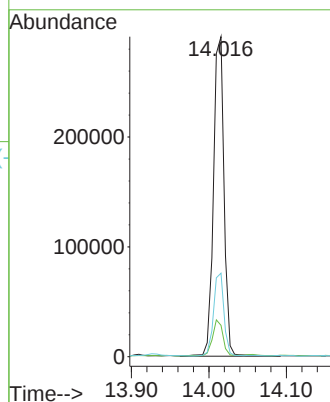
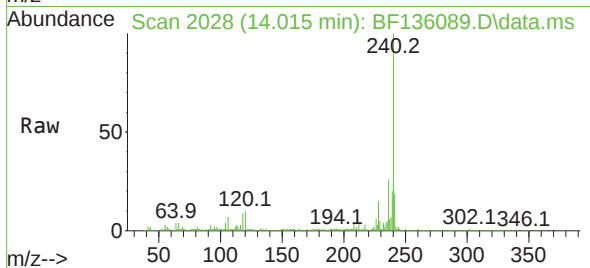
Tgt Ion:240 Resp: 275839
 Ion Ratio Lower Upper
 240 100
 120 9.8 7.6 11.4
 236 26.1 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#78

Pyrene

Concen: 25.241 ng

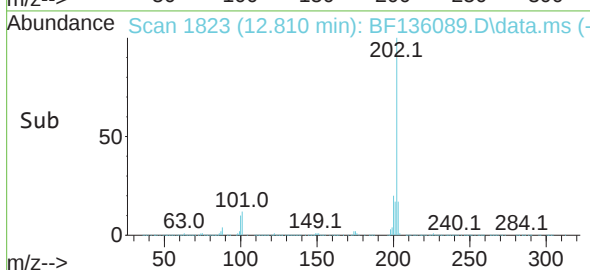
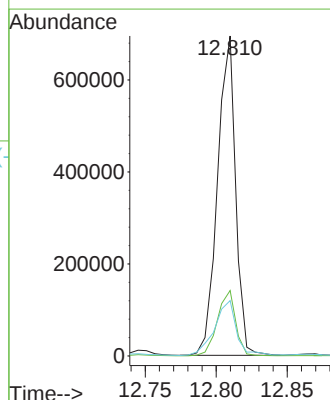
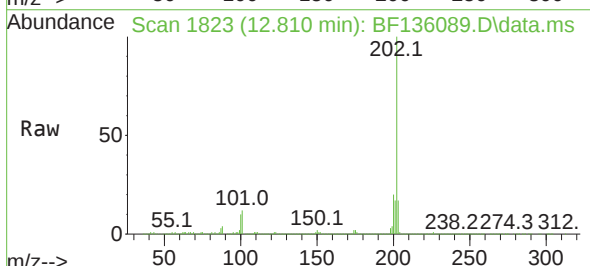
RT: 12.810 min Scan# 1823

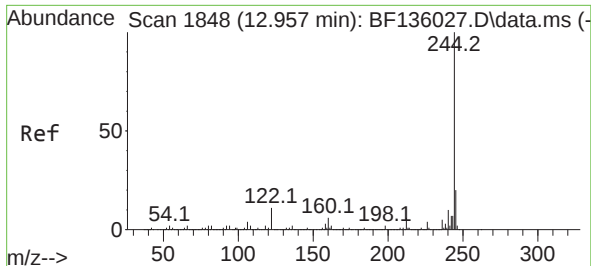
Delta R.T. 0.006 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

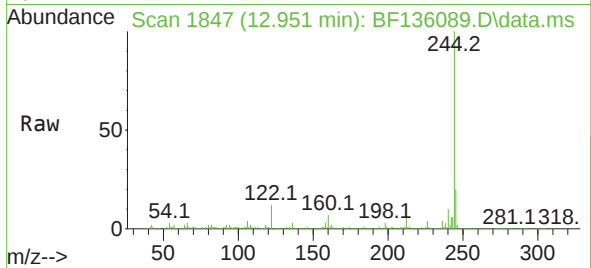
Tgt Ion:202 Resp: 613846
 Ion Ratio Lower Upper
 202 100
 200 20.5 17.0 25.4
 203 17.3 14.4 21.6





#79
 Terphenyl-d14
 Concen: 28.308 ng
 RT: 12.951 min Scan# 1847
 Delta R.T. -0.006 min
 Lab File: BF136089.D
 Acq: 01 Nov 2023 21:37

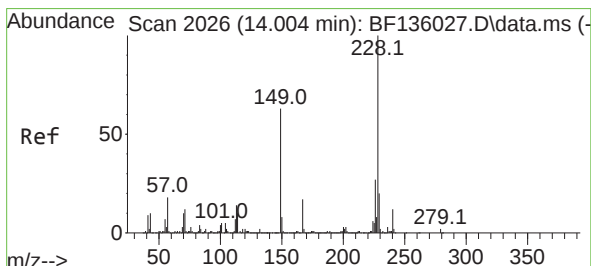
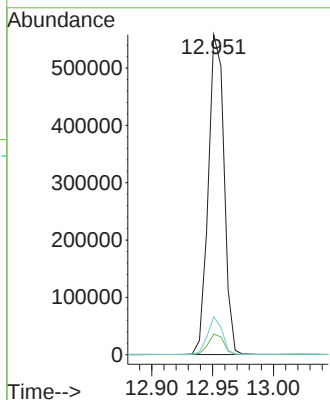
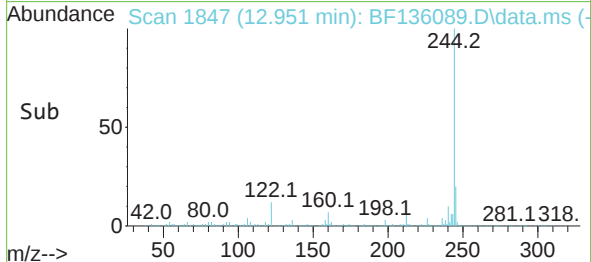
Instrument :
 BNA_F
 ClientSampleId :
 N-3(0-5)



Tgt Ion:244 Resp: 502460
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.1 7.7
 122 11.8 8.6 12.8

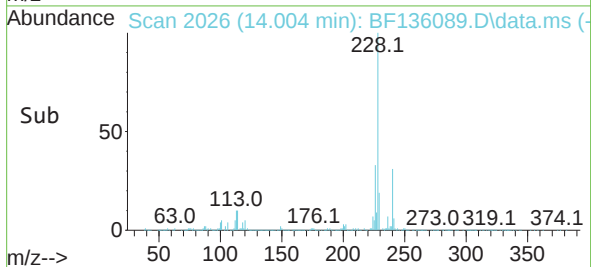
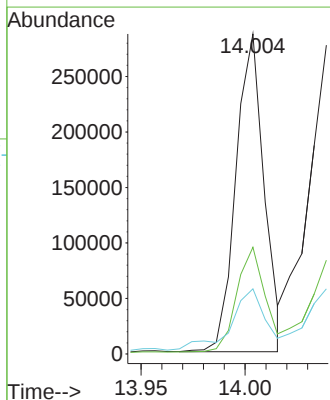
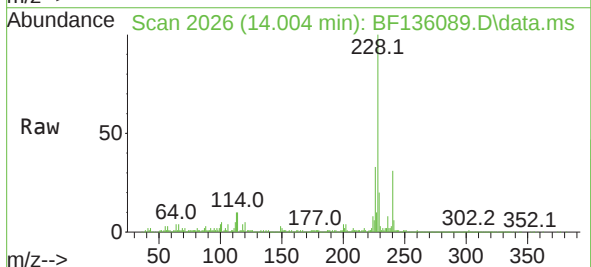
Manual Integrations
 APPROVED

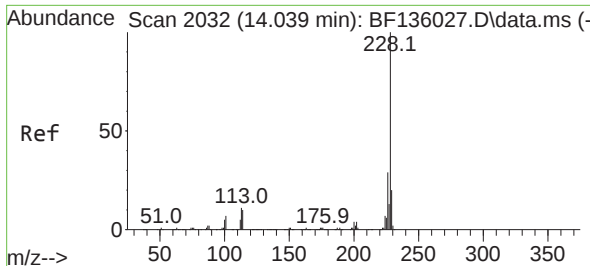
Reviewed By :Yogesh Patel 11/02/2023
 Supervised By :mohammad ahmed 11/02/2023



#81
 Benzo(a)anthracene
 Concen: 14.788 ng m
 RT: 14.004 min Scan# 2026
 Delta R.T. 0.000 min
 Lab File: BF136089.D
 Acq: 01 Nov 2023 21:37

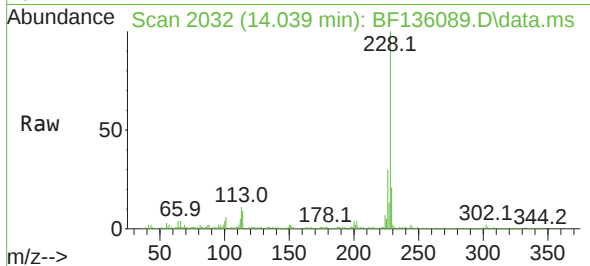
Tgt Ion:228 Resp: 270053
 Ion Ratio Lower Upper
 228 100
 226 33.3 21.5 32.3#
 229 20.3 15.8 23.6





#83
Chrysene
Concen: 15.271 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

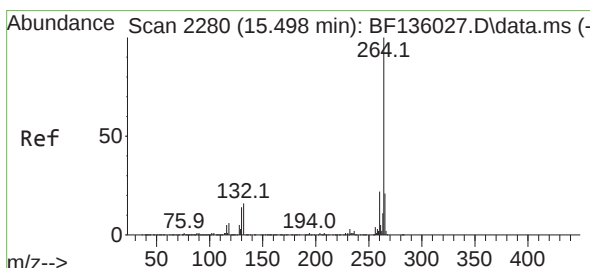
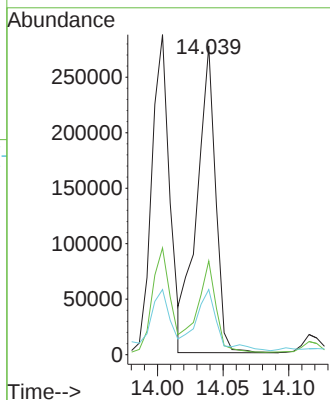
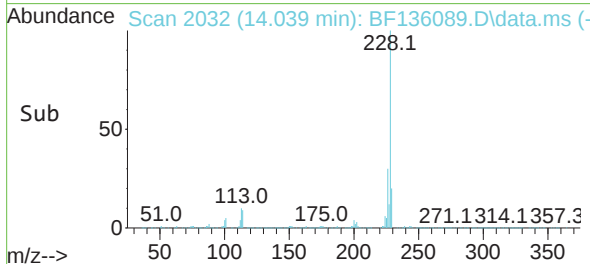
Instrument :
BNA_F
Client SampleId :
N-3(0-5)



Tgt Ion:228 Resp: 27464
Ion Ratio Lower Upper
228 100
226 30.3 23.5 35.3
229 21.1 16.0 24.0

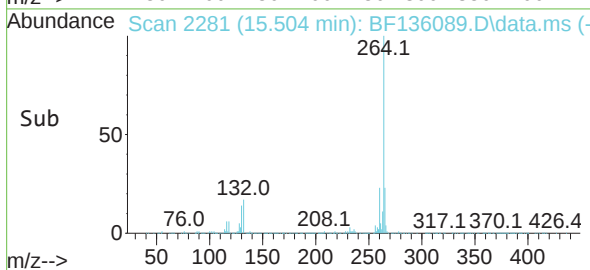
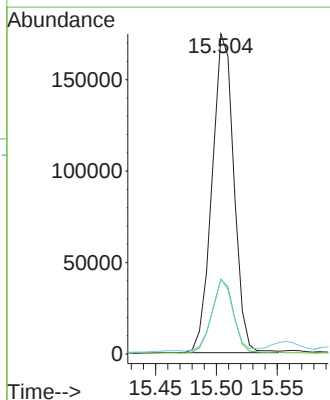
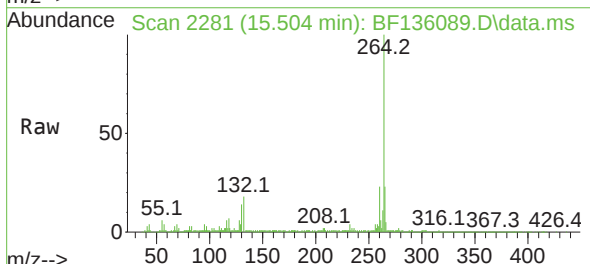
Manual Integrations
APPROVED

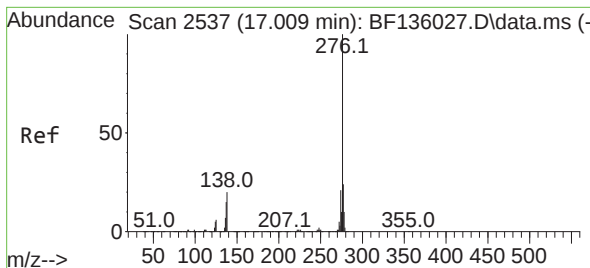
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2281
Delta R.T. 0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Tgt Ion:264 Resp: 217648
Ion Ratio Lower Upper
264 100
260 23.3 17.9 26.9
265 23.4 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.373 ng

RT: 17.015 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

Instrument :

BNA_F

ClientSampleId :

N-3(0-5)

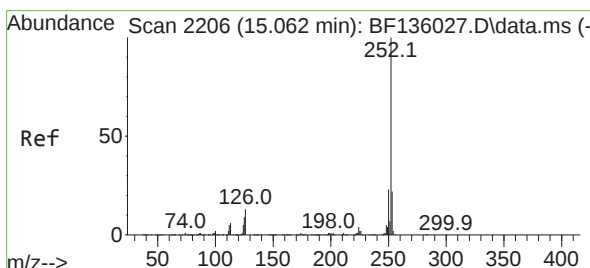
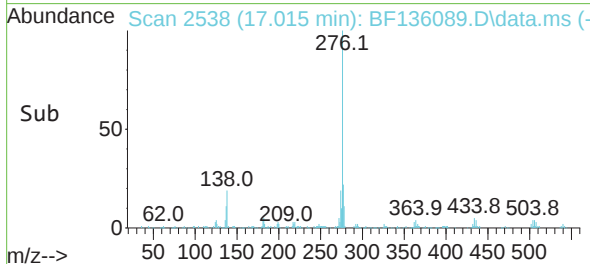
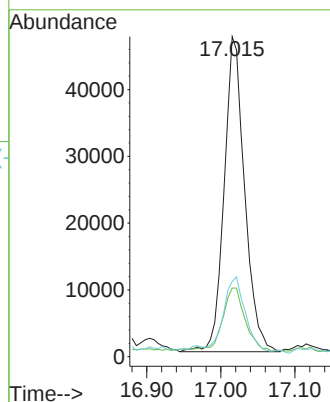
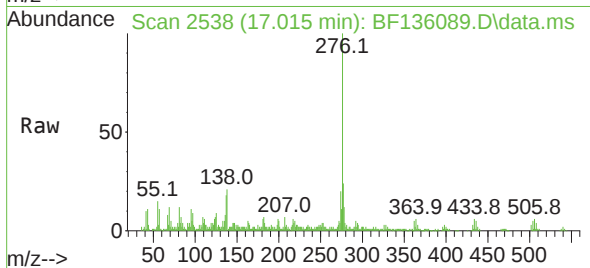
Tgt Ion:	276	Resp:	90650
Ion Ratio	Lower	Upper	
276	100		
138	22.7	20.4	30.6
277	24.6	20.2	30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#88

Benzo(b)fluoranthene

Concen: 18.965 ng m

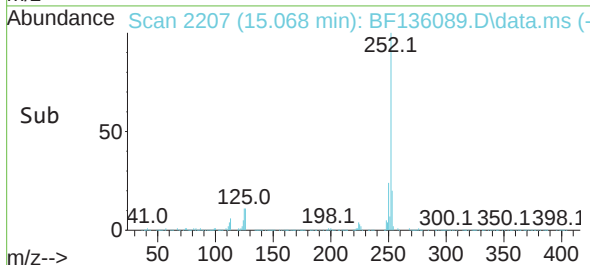
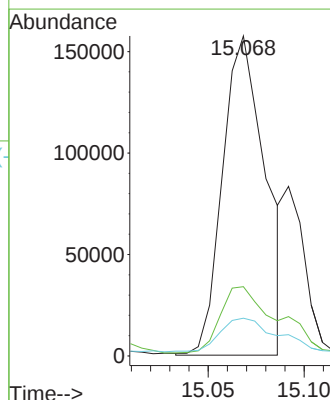
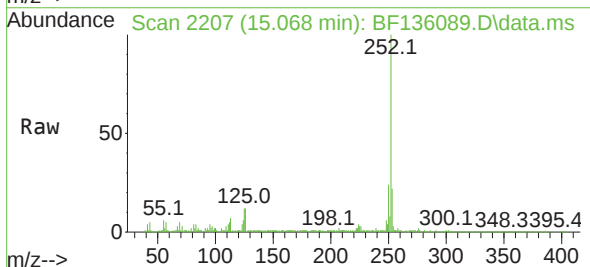
RT: 15.068 min Scan# 2207

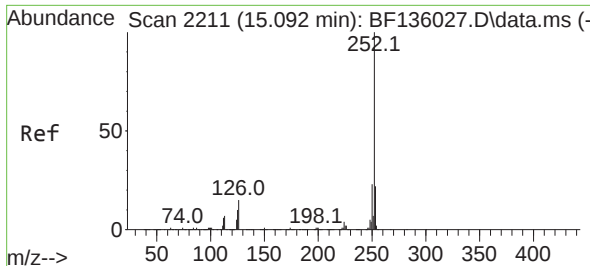
Delta R.T. 0.006 min

Lab File: BF136089.D

Acq: 01 Nov 2023 21:37

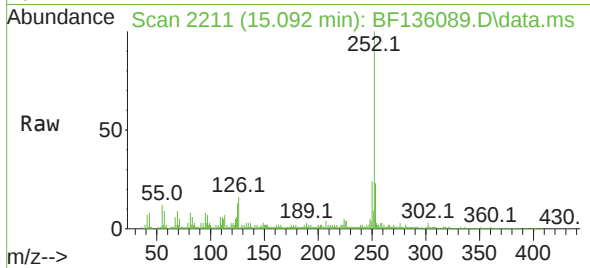
Tgt Ion:	252	Resp:	244237
Ion Ratio	Lower	Upper	
252	100		
253	21.7	17.7	26.5
125	11.8	7.5	11.3





#89
Benzo(k)fluoranthene
Concen: 5.173 ng m
RT: 15.092 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

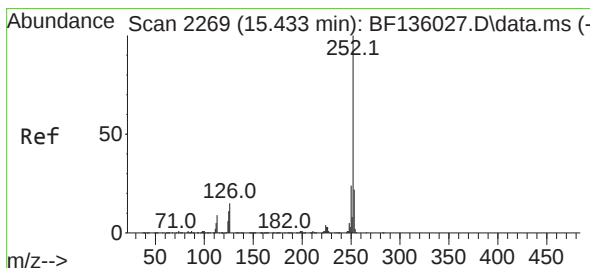
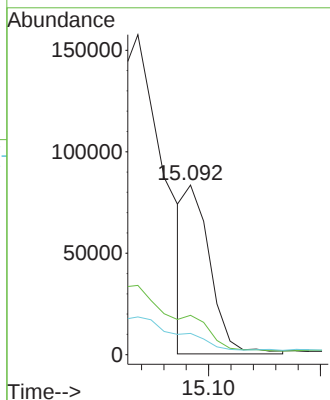
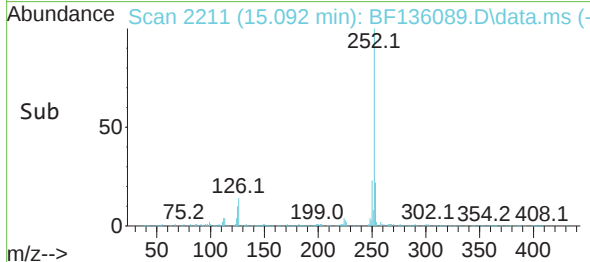
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



Tgt Ion:252 Resp: 6592
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 12.5 8.0 12.0

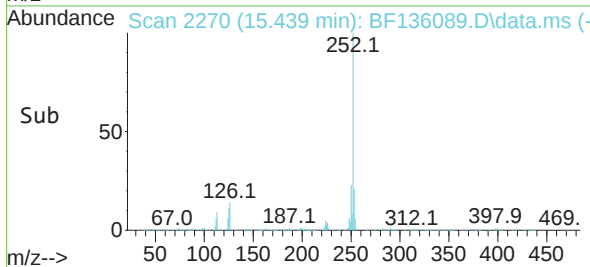
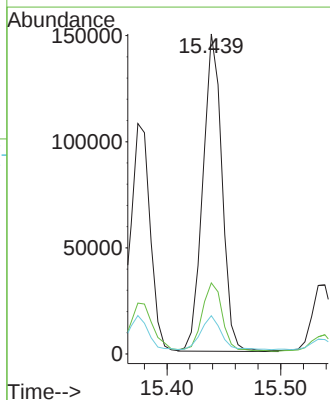
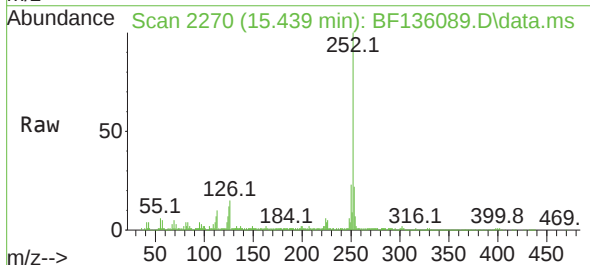
Manual Integrations
APPROVED

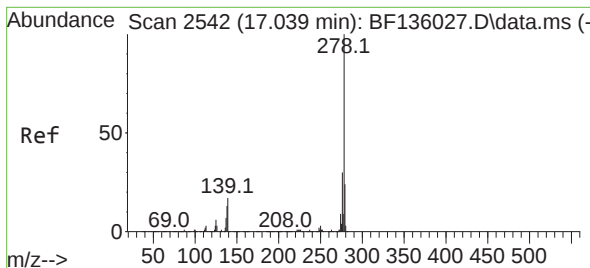
Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#90
Benzo(a)pyrene
Concen: 14.634 ng
RT: 15.439 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

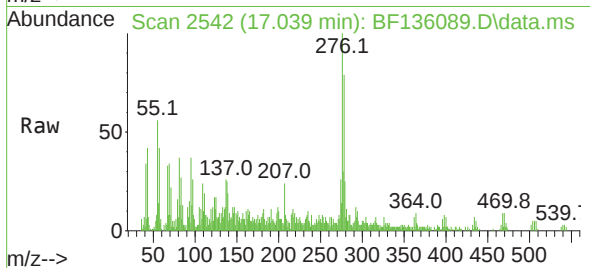
Tgt Ion:252 Resp: 175117
Ion Ratio Lower Upper
252 100
253 22.2 17.3 25.9
125 12.0 9.0 13.6





#91
Dibenzo(a,h)anthracene
Concen: 2.203 ng
RT: 17.039 min Scan# 2542
Delta R.T. 0.000 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

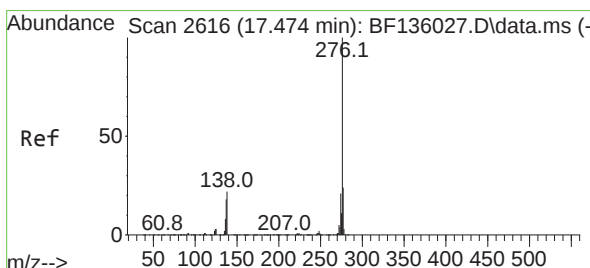
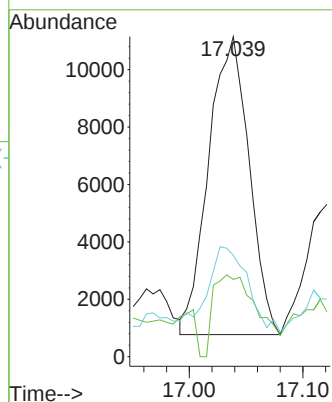
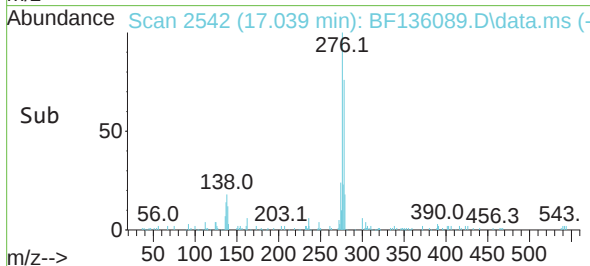
Instrument :
BNA_F
ClientSampleId :
N-3(0-5)



Tgt Ion: 278 Resp: 25674
Ion Ratio Lower Upper
278 100
139 30.0 13.7 20.5
279 31.7 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/02/2023
Supervised By :mohammad ahmed 11/02/2023



#92
Benzo(g,h,i)perylene
Concen: 9.718 ng
RT: 17.480 min Scan# 2617
Delta R.T. 0.006 min
Lab File: BF136089.D
Acq: 01 Nov 2023 21:37

Tgt Ion: 276 Resp: 96317
Ion Ratio Lower Upper
276 100
277 22.3 19.0 28.4
138 22.2 17.4 26.2

