

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122223\
 Data File : BF136703.D
 Acq On : 23 Dec 2023 00:35
 Operator : CG\JU
 Sample : 05862-10 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOLIDS-20231213-01

Quant Time: Dec 23 01:58:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2023
 Supervised By :mohammad ahmed 12/25/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	58771	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	194832	20.000	ng	0.00
39) Acenaphthene-d10	9.816	164	82045	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	143191	20.000	ng	0.00
76) Chrysene-d12	13.974	240	107040	20.000	ng	# 0.00
86) Perylene-d12	15.462	264	92980	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	47535	12.620	ng	0.00
7) Phenol-d6	6.428	99	61489	12.598	ng	-0.01
23) Nitrobenzene-d5	7.339	82	35653	9.364	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	11488	11.889	ng	-0.01
45) 2-Fluorobiphenyl	9.133	172	66418	10.888	ng	-0.02
79) Terphenyl-d14	12.904	244	67421	8.802	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.086	128	1350970	126.217	ng	99
37) 2-Methylnaphthalene	8.775	142	484269	70.301	ng	99
38) 1-Methylnaphthalene	8.875	142	348571	51.578	ng	100
46) 1,1'-Biphenyl	9.233	154	62567	9.088	ng	94
49) Acenaphthylene	9.675	152	166070	20.759	ng	# 97
52) Acenaphthene	9.845	154	55482	11.188	ng	98
58) Fluorene	10.369	166	136871	22.947	ng	97
71) Phenanthrene	11.333	178	510988	69.548	ng	99
72) Anthracene	11.386	178	119857	16.108	ng	98
75) Fluoranthene	12.527	202	193347	24.602	ng	88
78) Pyrene	12.763	202	314603	29.940	ng	97
81) Benzo(a)anthracene	13.962	228	119835	16.123	ng	# 80
83) Chrysene	13.998	228	103782	14.278	ng	# 94
88) Benzo(b)fluoranthene	15.027	252	48428m	7.798	ng	
90) Benzo(a)pyrene	15.392	252	50606	9.654	ng	# 86
92) Benzo(g,h,i)perylene	17.398	276	15591	2.764	ng	# 85

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

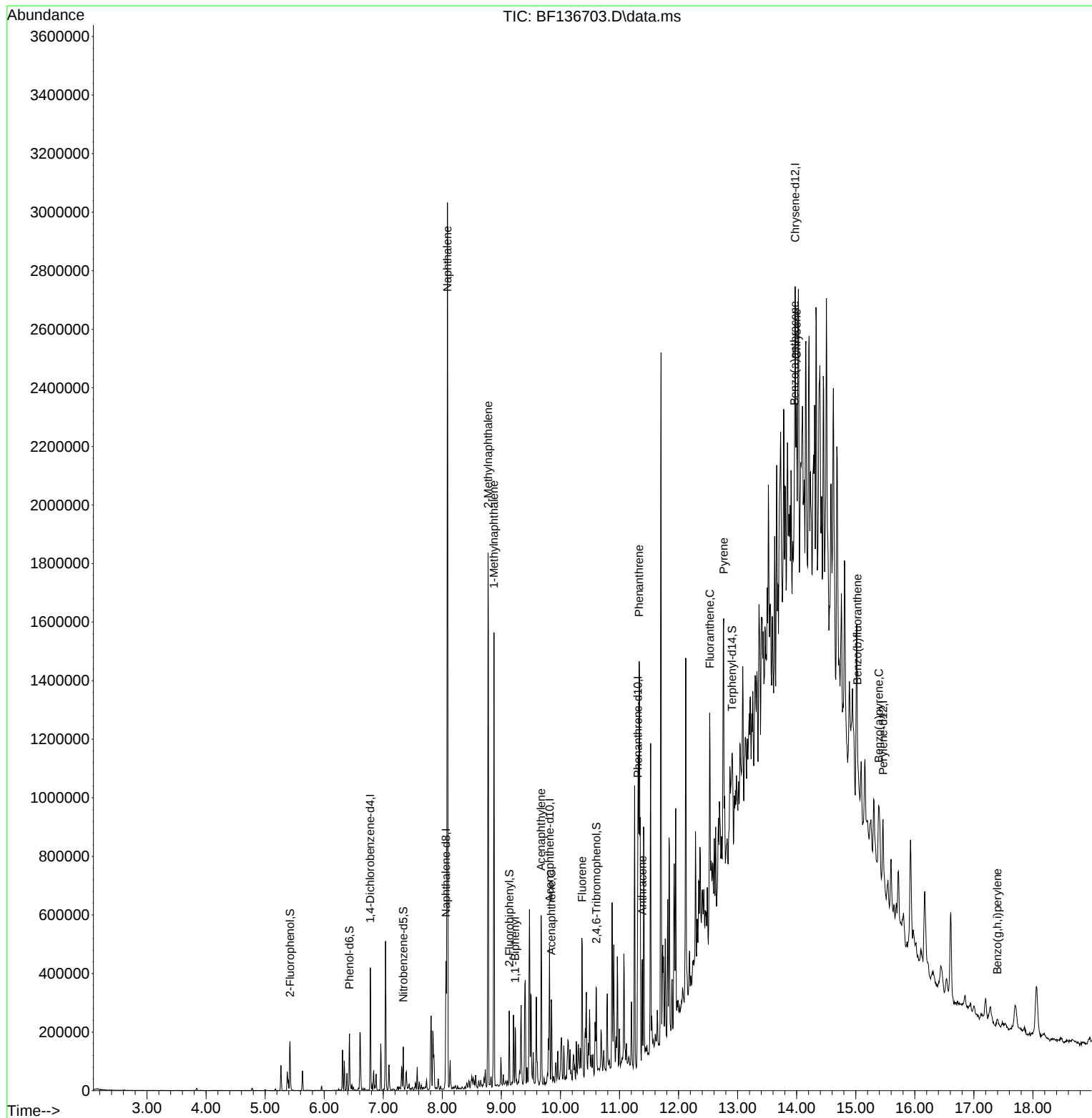
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122223\
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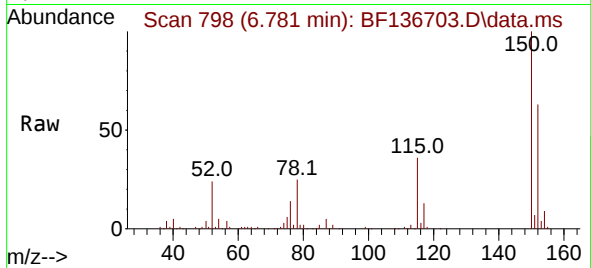
Reviewed By :Yogesh Patel 12/25/2023
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

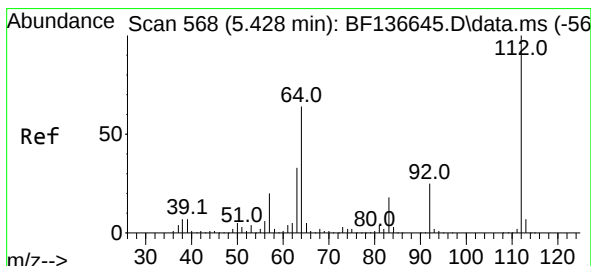
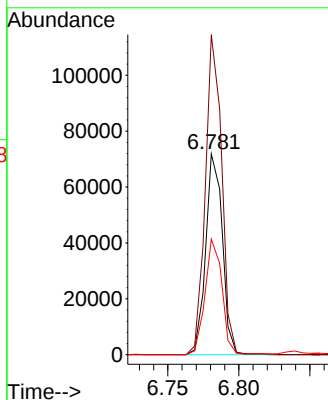
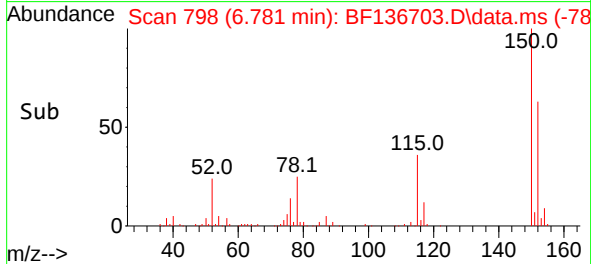
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01



Tgt Ion:152 Resp: 5877
Ion Ratio Lower Upper
152 100
150 159.4 127.0 190.6
115 57.5 49.0 73.4

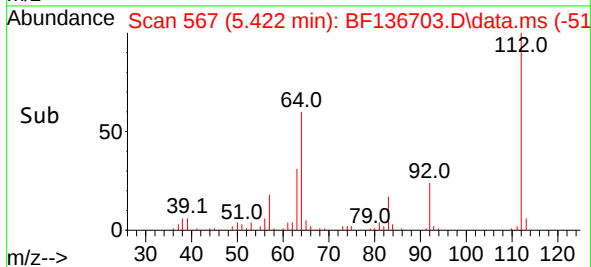
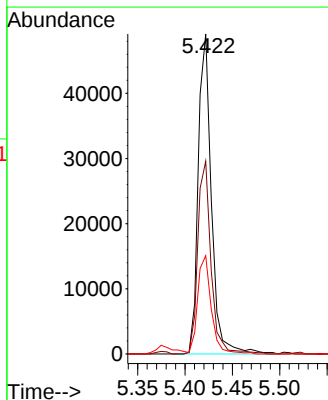
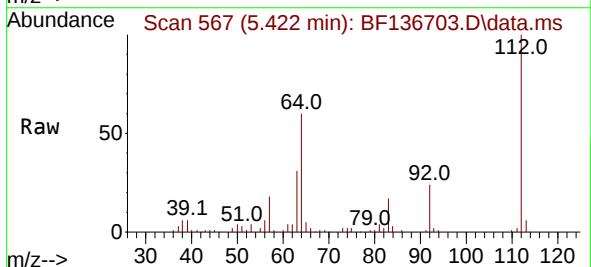
Manual Integrations
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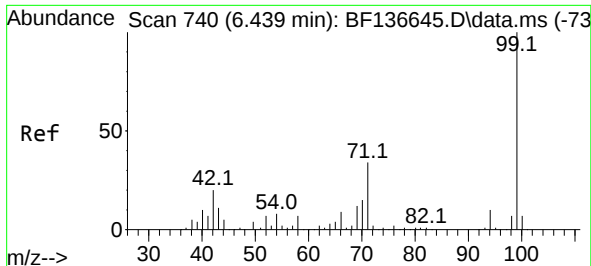
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#5
2-Fluorophenol
Concen: 12.620 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:112 Resp: 47535
Ion Ratio Lower Upper
112 100
64 60.2 51.1 76.7
63 30.7 26.1 39.1





#7

Phenol-d6

Concen: 12.598 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF136703.D

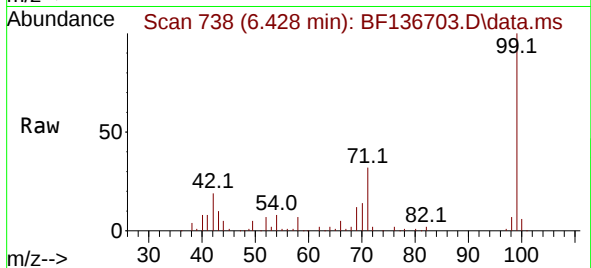
Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01



Tgt Ion: 99 Resp: 61489

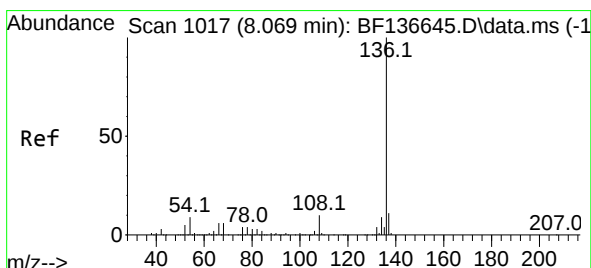
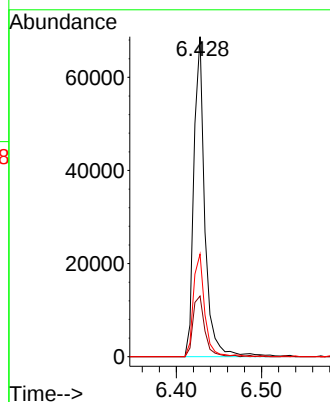
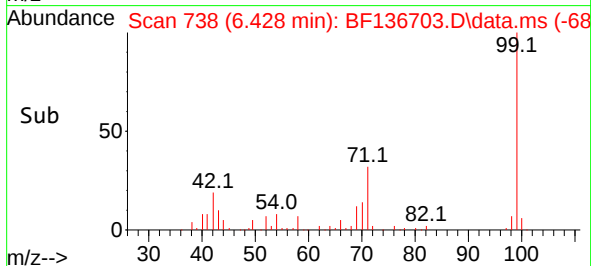
Ion	Ratio	Lower	Upper
99	100		
42	18.9	16.1	24.1
71	32.1	27.4	41.2

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1016

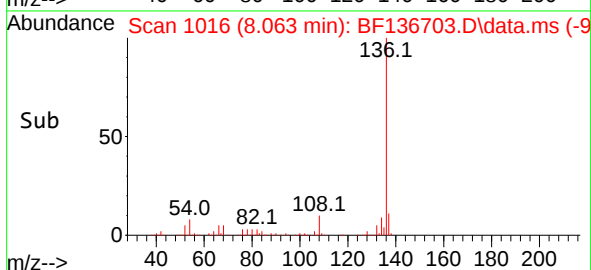
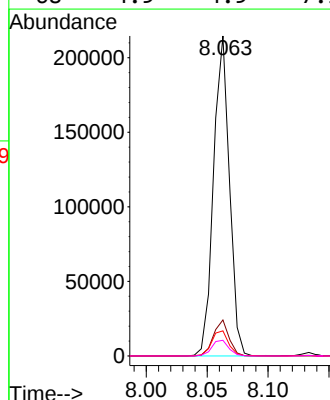
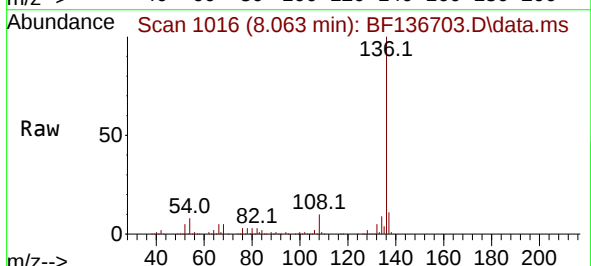
Delta R.T. -0.006 min

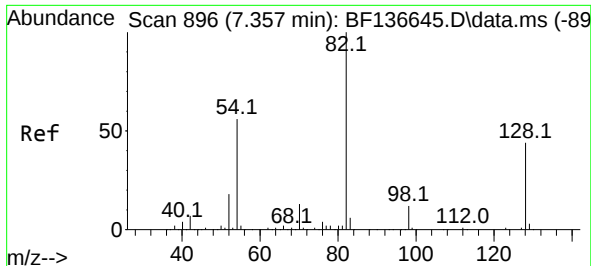
Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:136 Resp: 194832

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.9	7.2	10.8
68	4.9	4.9	7.3





#23

Nitrobenzene-d5

Concen: 9.364 ng

RT: 7.339 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

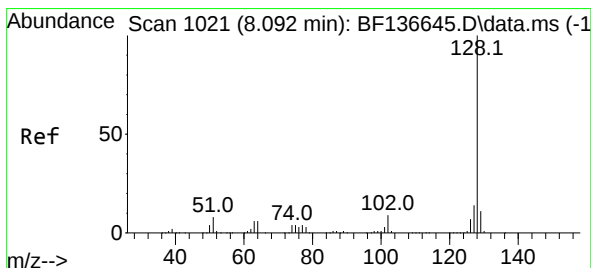
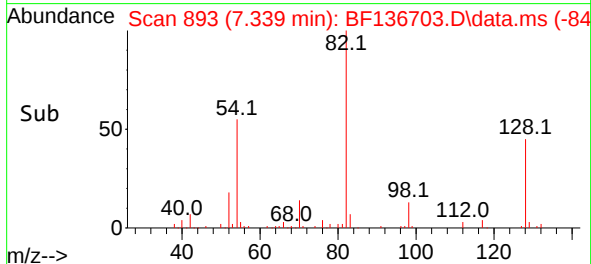
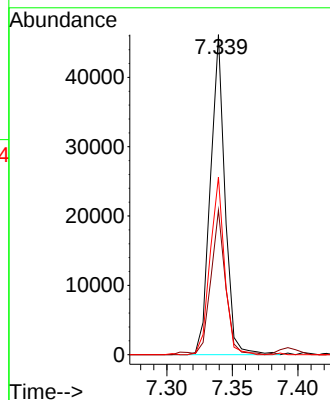
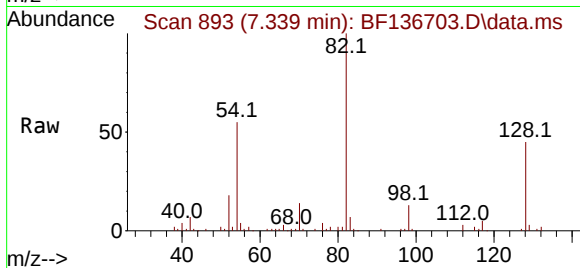
WC-SOLIDS-20231213-01

Tgt Ion: 82 Resp: 3565
 Ion Ratio Lower Upper
 82 100
 128 45.1 35.3 52.9
 54 55.5 44.5 66.7

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#31

Naphthalene

Concen: 126.217 ng

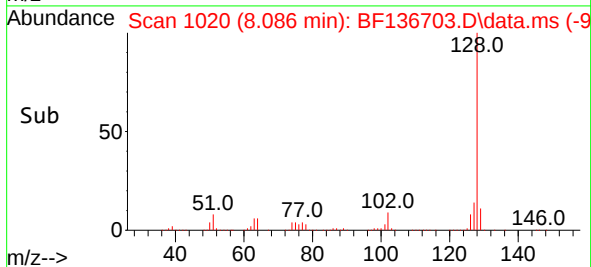
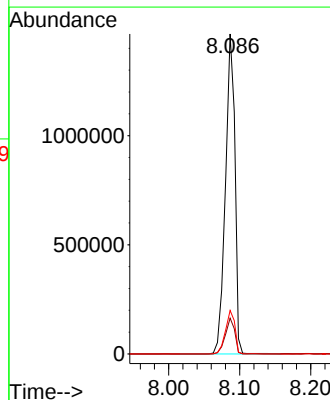
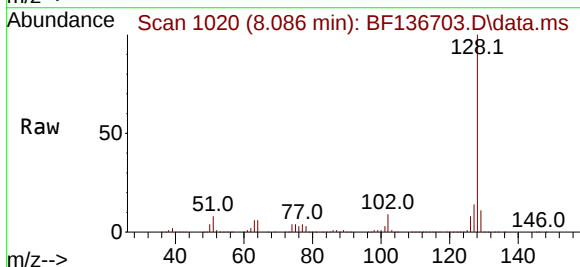
RT: 8.086 min Scan# 1020

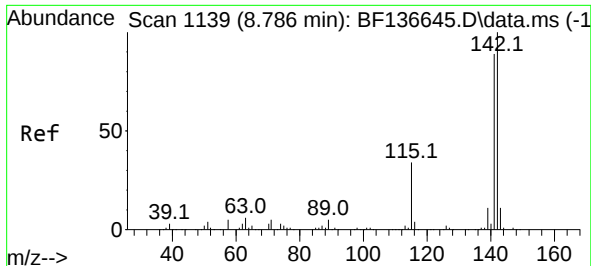
Delta R.T. -0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:128 Resp: 1350970
 Ion Ratio Lower Upper
 128 100
 129 11.2 8.7 13.1
 127 13.6 10.8 16.2





#37

2-Methylnaphthalene

Concen: 70.301 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

Tgt Ion:142 Resp: 484269

Ion Ratio Lower Upper

142 100

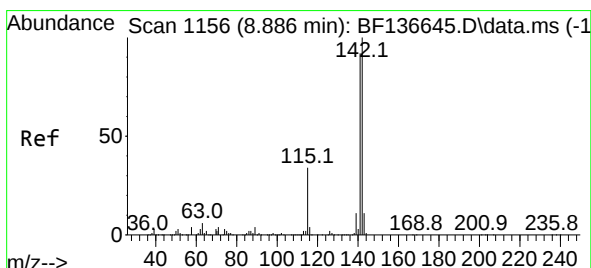
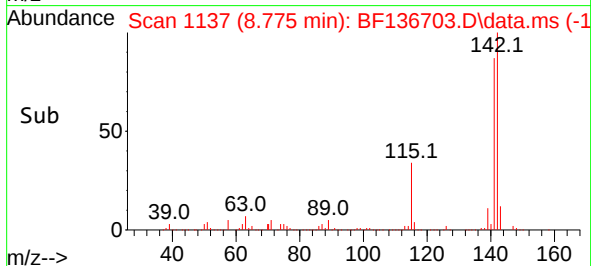
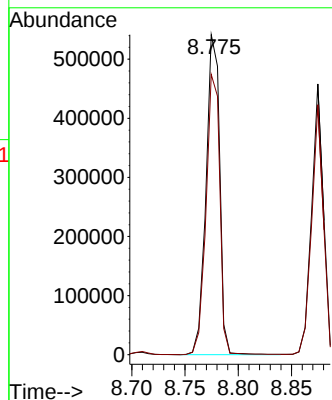
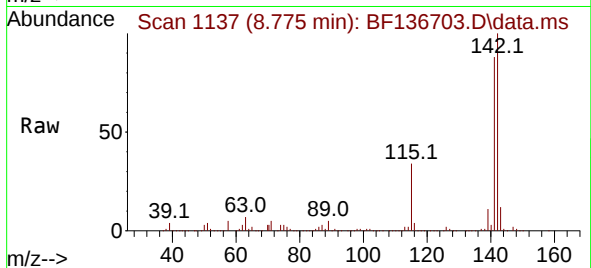
141 87.5 71.1 106.7

Manual Integrations

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Supervised By :mohammad ahmed 12/25/2023



#38

1-Methylnaphthalene

Concen: 51.578 ng

RT: 8.875 min Scan# 1154

Delta R.T. -0.012 min

Lab File: BF136703.D

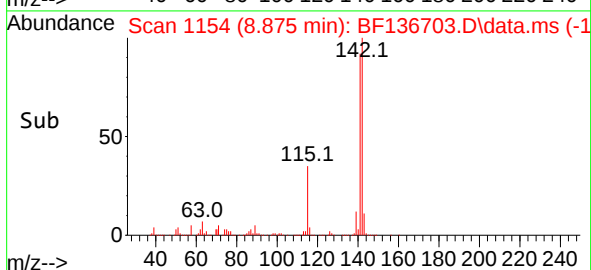
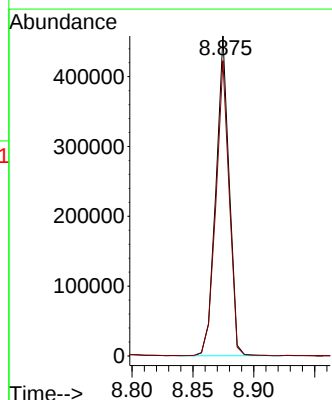
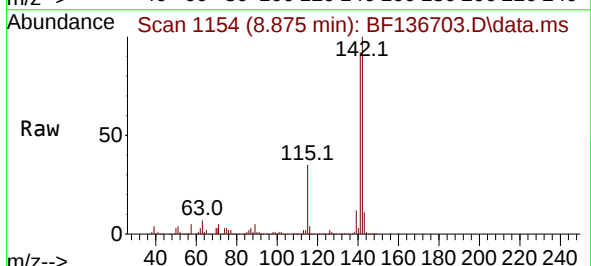
Acq: 23 Dec 2023 00:35

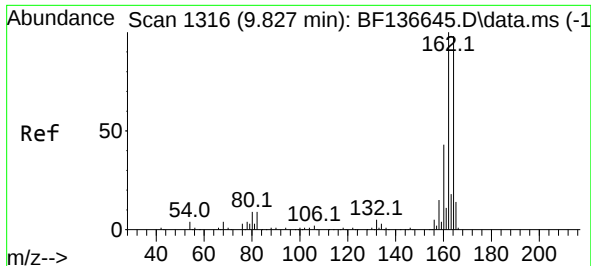
Tgt Ion:142 Resp: 348571

Ion Ratio Lower Upper

142 100

141 92.3 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

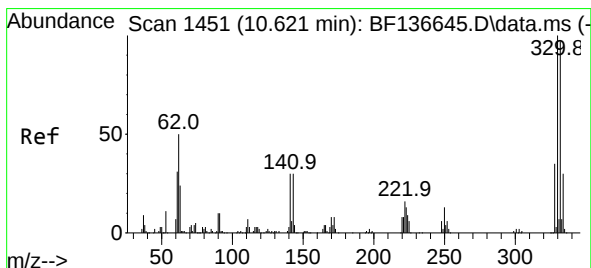
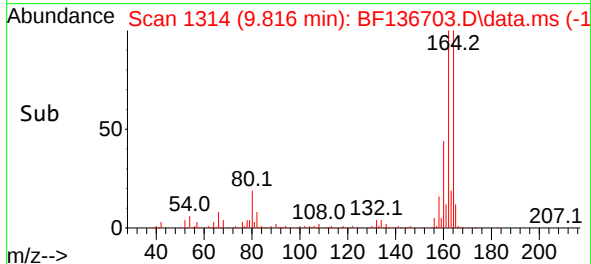
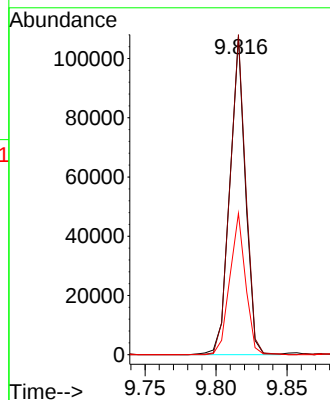
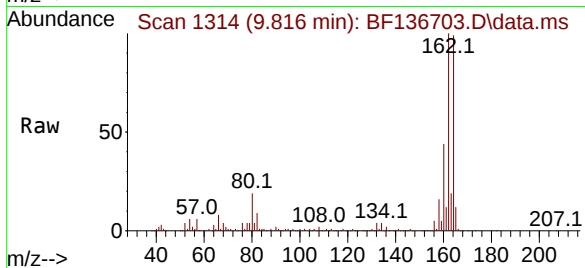
Tgt Ion:164 Resp: 8204

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.6	122.4
160	44.5	34.9	52.3

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#42

2,4,6-Tribromophenol

Concen: 11.889 ng

RT: 10.610 min Scan# 1449

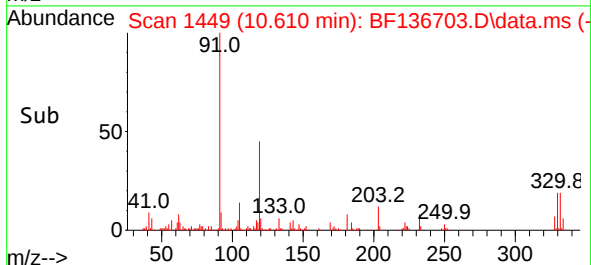
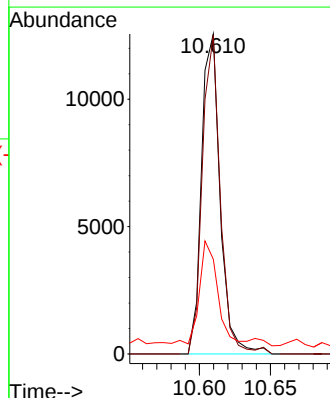
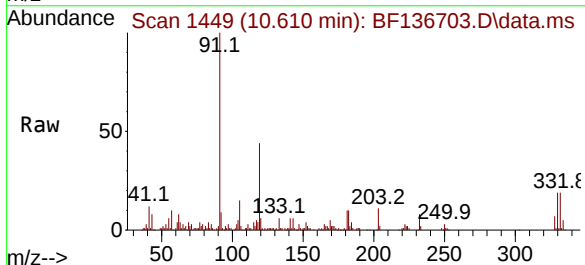
Delta R.T. -0.012 min

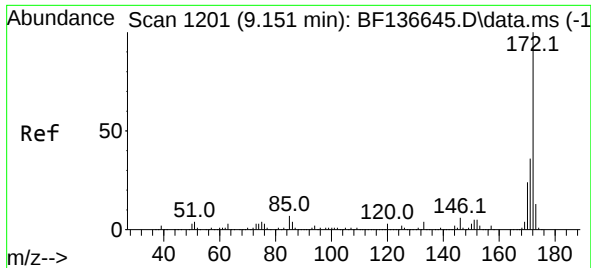
Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:330 Resp: 11488

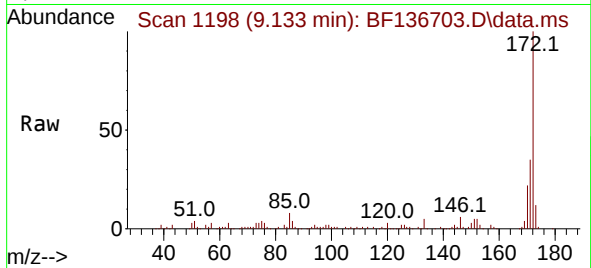
Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.4	116.0
141	30.4	23.4	35.2





#45
2-Fluorobiphenyl
Concen: 10.888 ng
RT: 9.133 min Scan# 1198
Delta R.T. -0.018 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

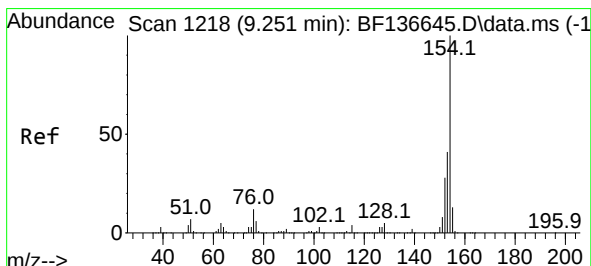
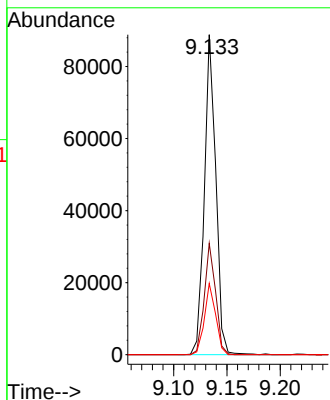
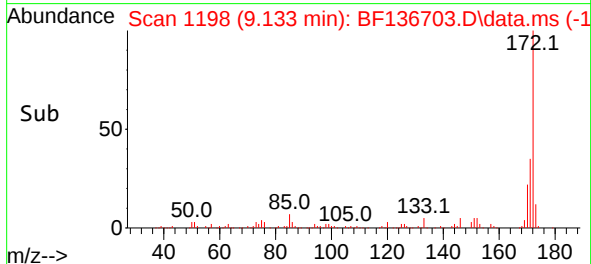
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BNA_F
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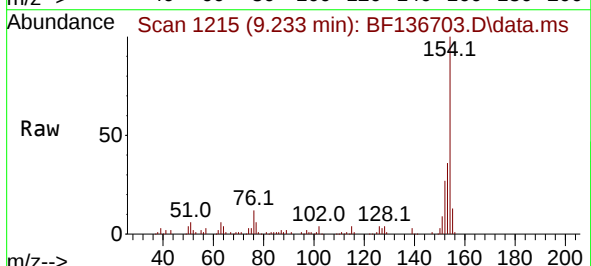
Tgt Ion:172 Resp: 66418
Ion Ratio Lower Upper
172 100
171 34.8 29.0 43.6
170 22.3 19.0 28.4

Manual Integrations
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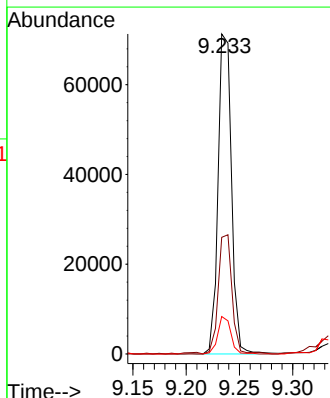
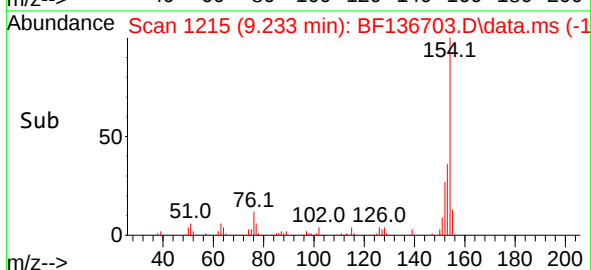
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

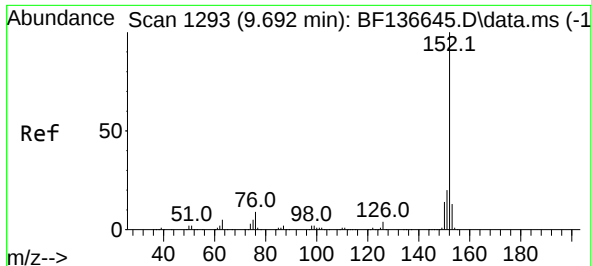


#46
1,1'-Biphenyl
Concen: 9.088 ng
RT: 9.233 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35



Tgt Ion:154 Resp: 62567
Ion Ratio Lower Upper
154 100
153 36.5 21.1 61.1
76 11.7 0.0 31.7





#49

Acenaphthylene

Concen: 20.759 ng

RT: 9.675 min Scan# 1319

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

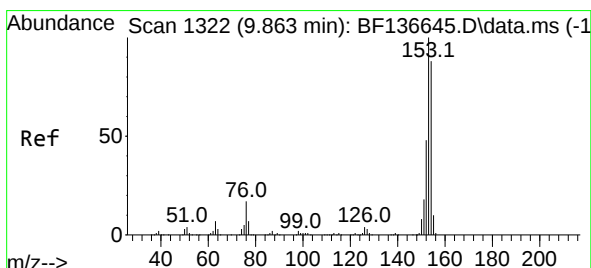
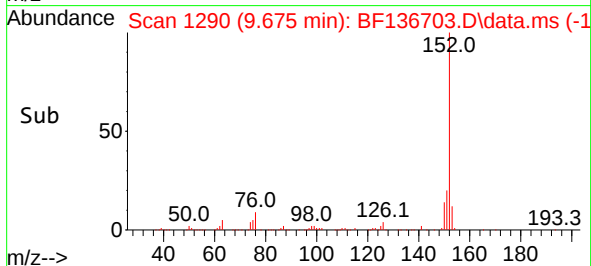
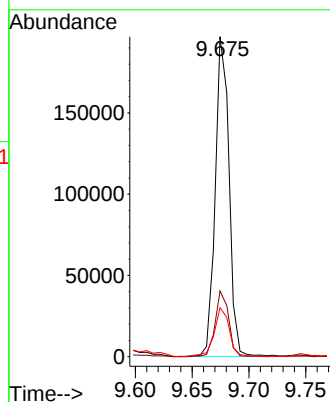
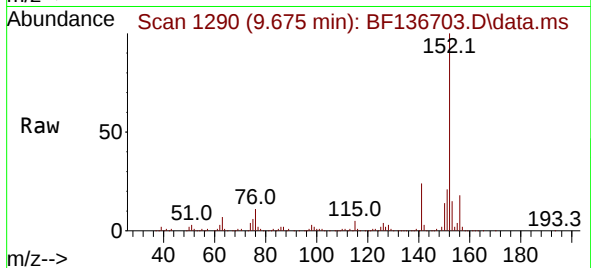
Tgt Ion:152 Resp: 166070
 Ion Ratio Lower Upper
 152 100
 151 20.5 16.2 24.4
 153 15.3 10.2 15.2

Manual Integrations

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Supervised By :mohammad ahmed 12/25/2023



#52

Acenaphthene

Concen: 11.188 ng

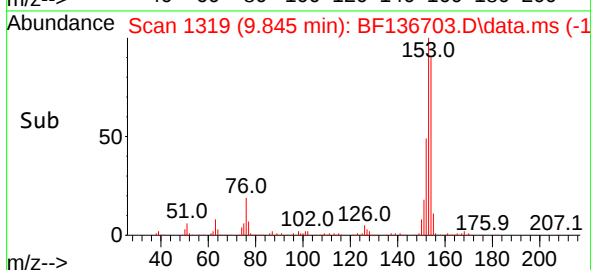
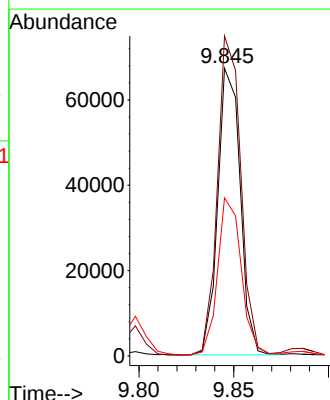
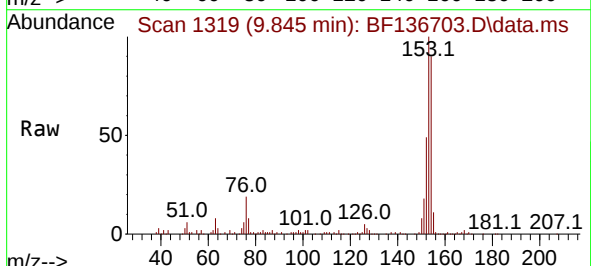
RT: 9.845 min Scan# 1319

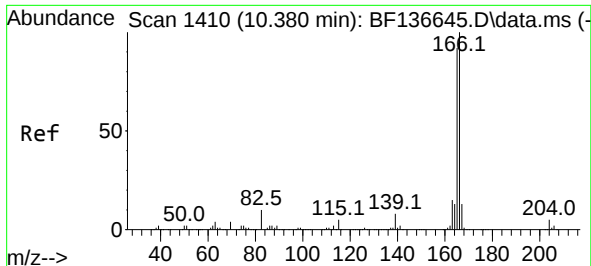
Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

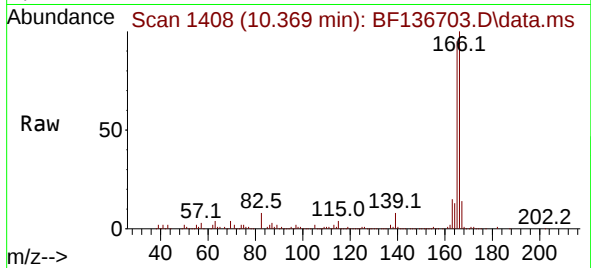
Tgt Ion:154 Resp: 55482
 Ion Ratio Lower Upper
 154 100
 153 111.2 90.7 136.1
 152 54.9 43.7 65.5





#58
Fluorene
Concen: 22.947 ng
RT: 10.369 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

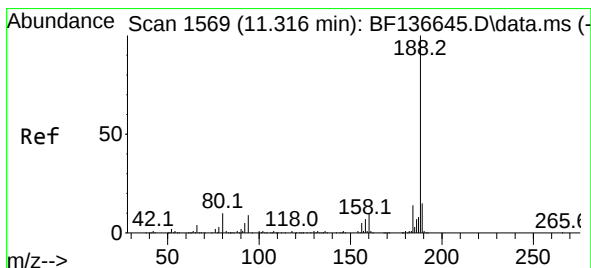
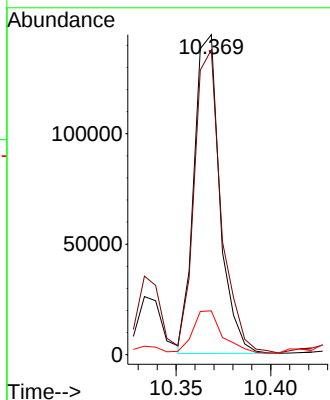
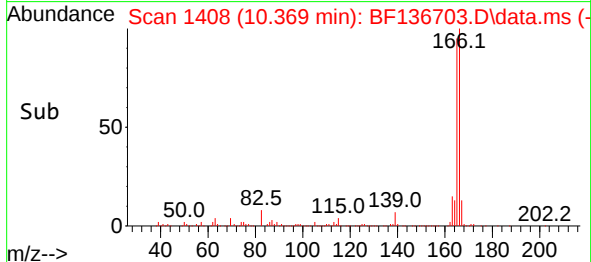
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01



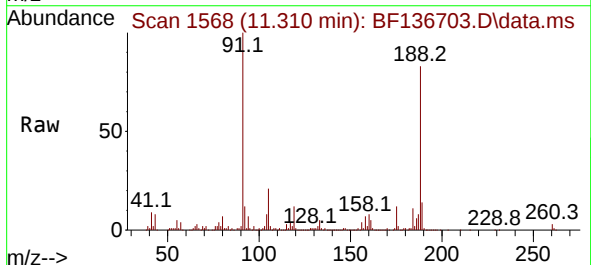
Tgt Ion:166 Resp: 13687
Ion Ratio Lower Upper
166 100
165 95.3 73.7 110.5
167 13.7 10.4 15.6

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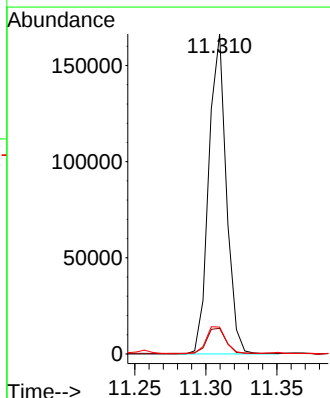
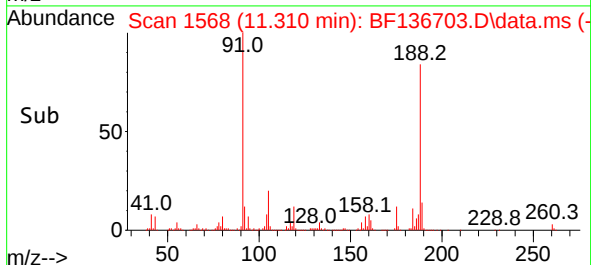
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023

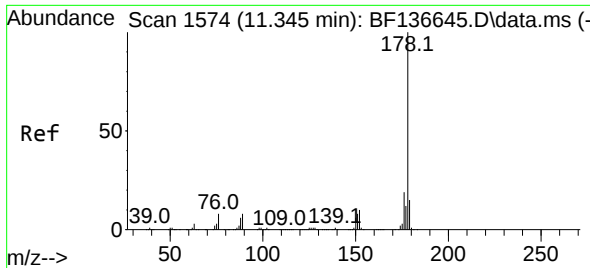


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35



Tgt Ion:188 Resp: 143191
Ion Ratio Lower Upper
188 100
94 8.0 7.5 11.3
80 8.4 8.1 12.1





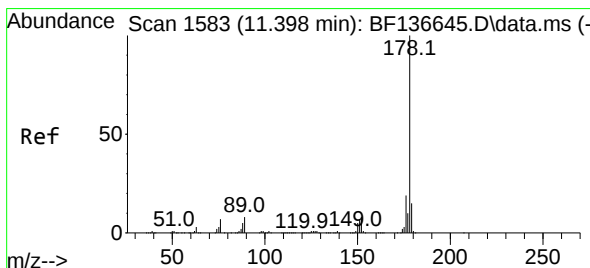
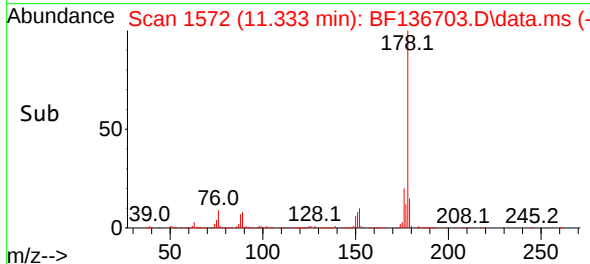
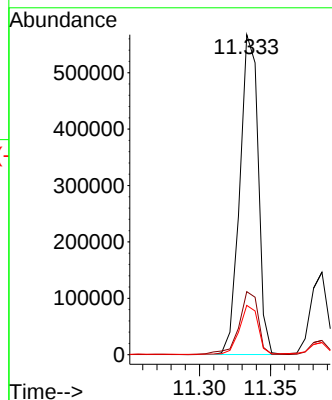
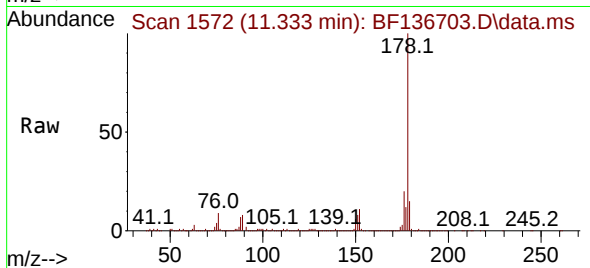
#71
Phenanthrene
Concen: 69.548 ng
RT: 11.333 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

Tgt Ion:178 Resp: 51098
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 15.4 11.9 17.9

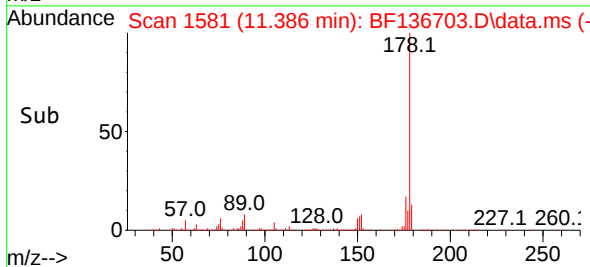
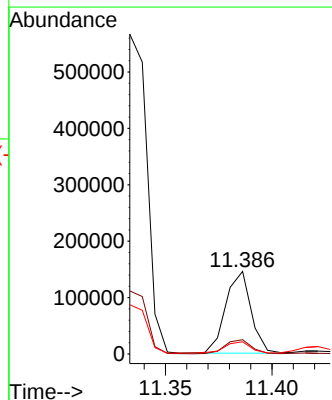
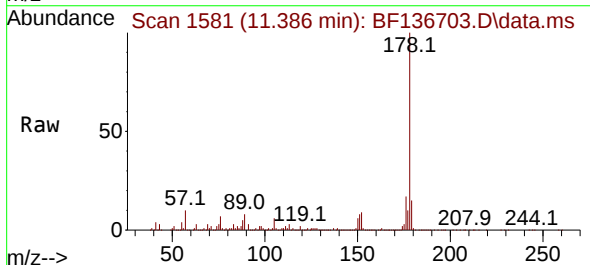
Manual Integrations
APPROVED

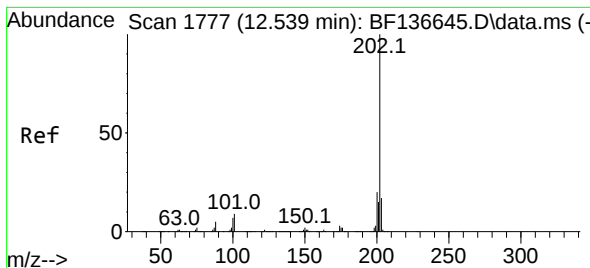
Reviewed By :Yogesh Patel 12/25/2023
Supervised By :mohammad ahmed 12/25/2023



#72
Anthracene
Concen: 16.108 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:178 Resp: 119857
Ion Ratio Lower Upper
178 100
176 17.3 14.9 22.3
179 14.7 11.8 17.6





#75

Fluoranthene

Concen: 24.602 ng

RT: 12.527 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

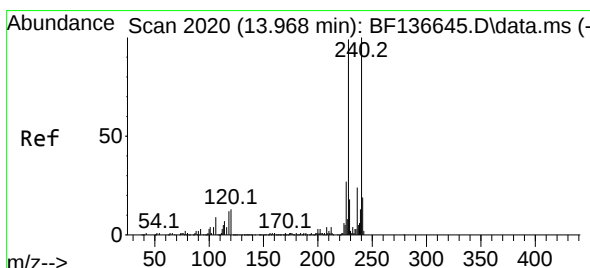
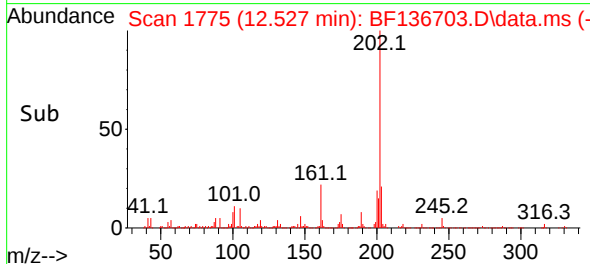
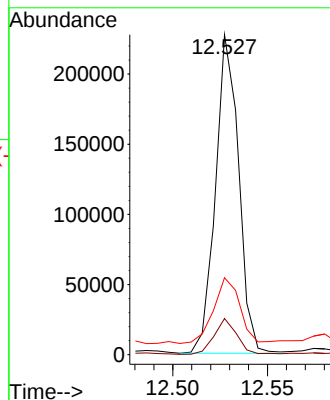
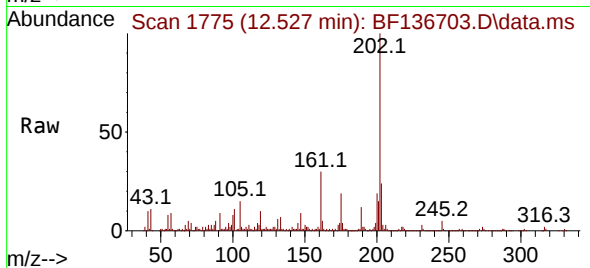
Tgt Ion:202 Resp: 19334
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 29.3
 203 24.1 0.0 37.1

Manual Integrations

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Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#76

Chrysene-d12

Concen: 20.000 ng

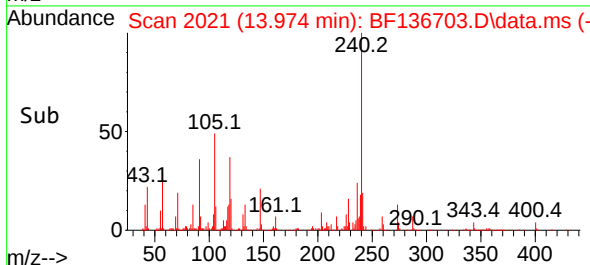
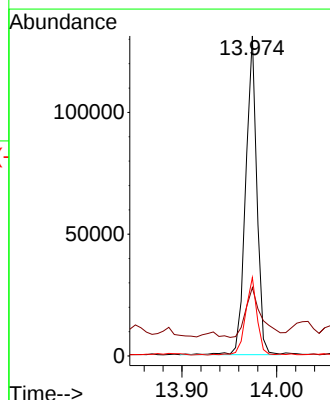
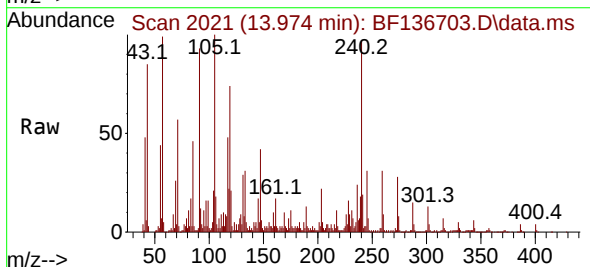
RT: 13.974 min Scan# 2021

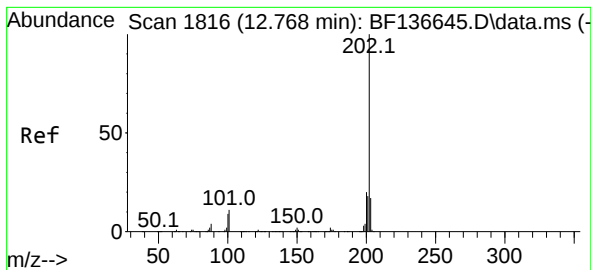
Delta R.T. 0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:240 Resp: 107040
 Ion Ratio Lower Upper
 240 100
 120 21.4 10.3 15.5#
 236 24.5 19.4 29.2





#78

Pyrene

Concen: 29.940 ng

RT: 12.763 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

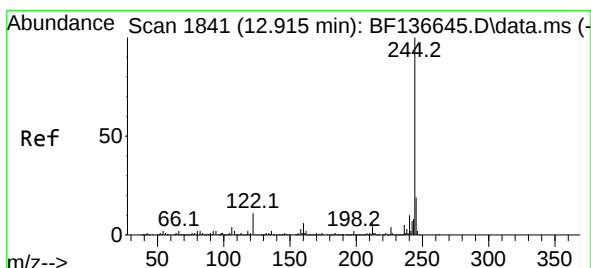
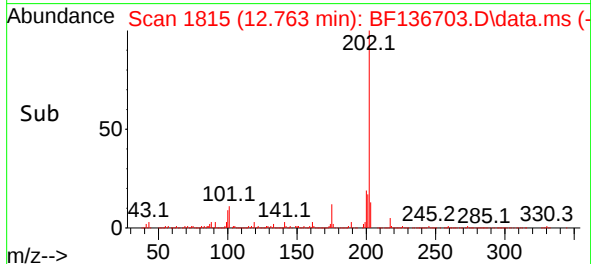
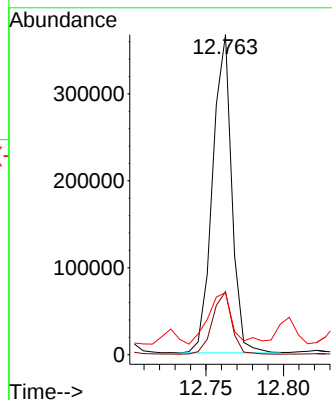
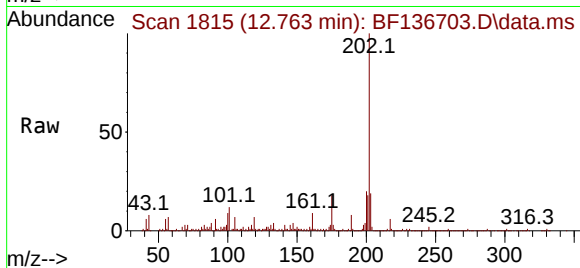
Tgt Ion:202 Resp: 31460
 Ion Ratio Lower Upper
 202 100
 200 19.7 15.9 23.9
 203 19.4 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#79

Terphenyl-d14

Concen: 8.802 ng

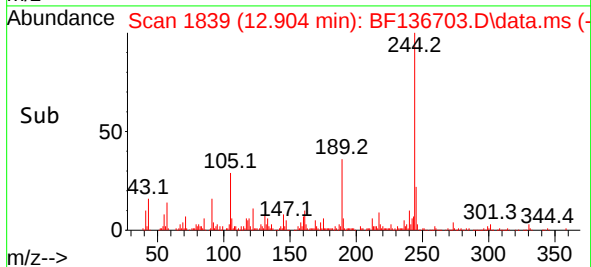
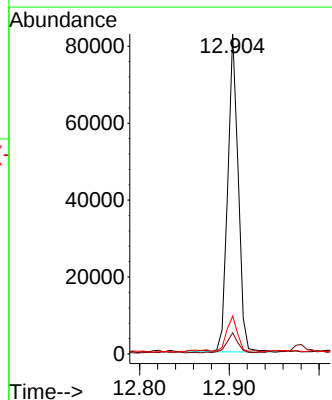
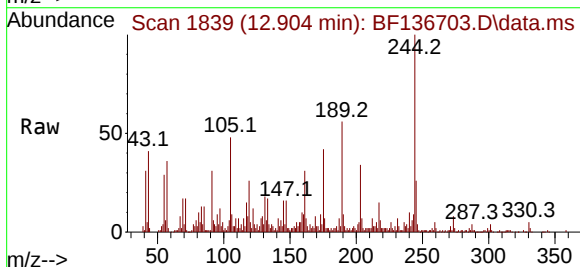
RT: 12.904 min Scan# 1839

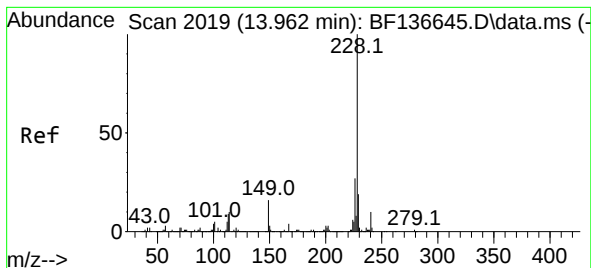
Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:244 Resp: 67421
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.0 7.4
 122 11.9 9.0 13.4





#81

Benzo(a)anthracene

Concen: 16.123 ng

RT: 13.962 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

Tgt Ion:228 Resp: 119835

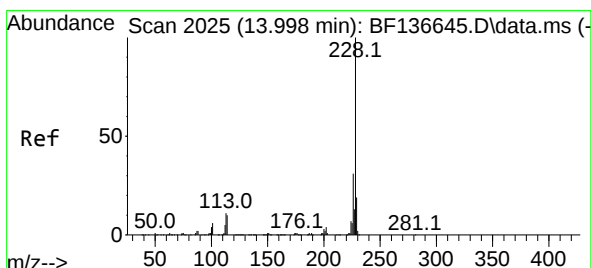
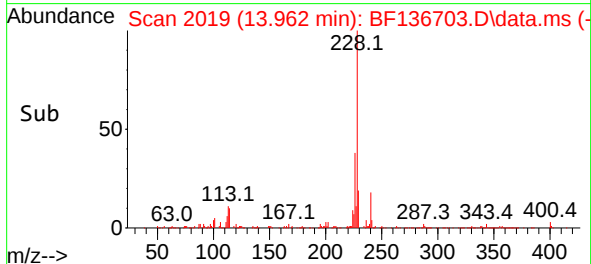
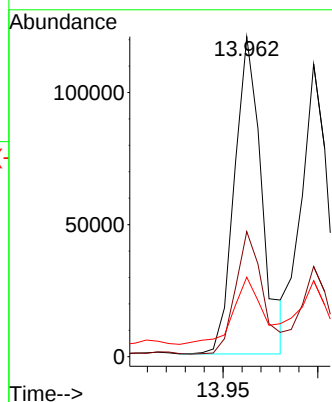
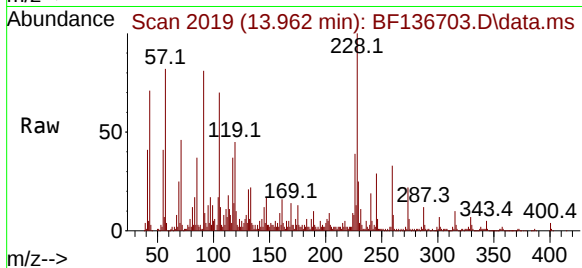
Ion	Ratio	Lower	Upper
228	100		
226	39.1	21.4	32.0
229	24.8	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#83

Chrysene

Concen: 14.278 ng

RT: 13.998 min Scan# 2025

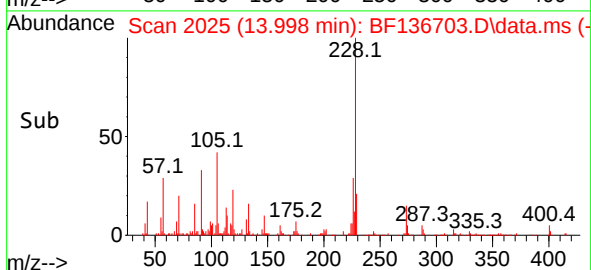
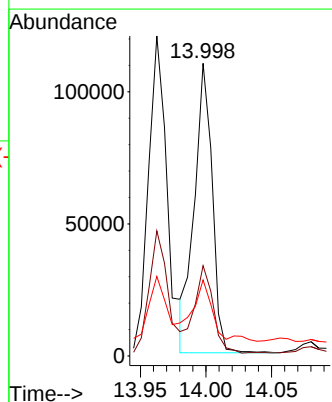
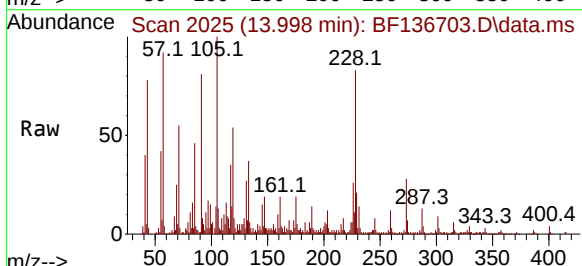
Delta R.T. 0.000 min

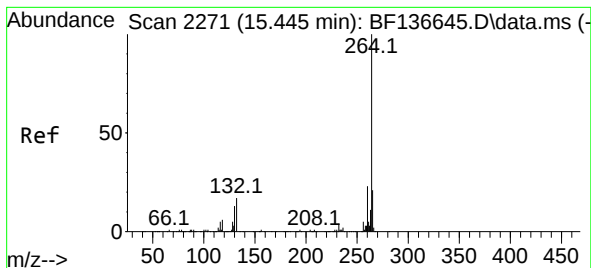
Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:228 Resp: 103782

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.7	37.1
229	26.0	15.4	23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

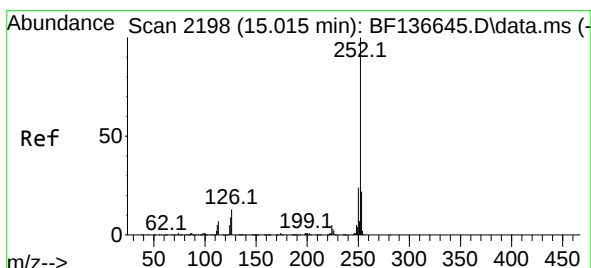
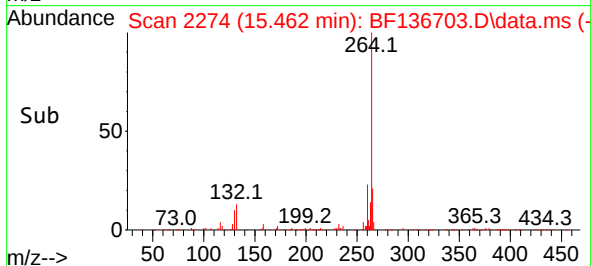
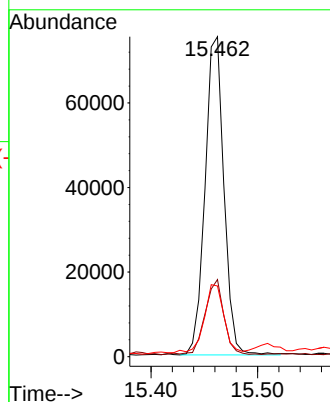
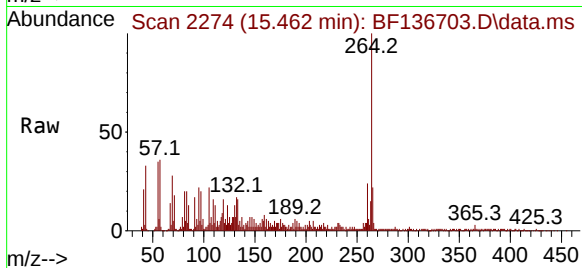
Tgt Ion:264 Resp: 92980
 Ion Ratio Lower Upper
 264 100
 260 24.1 18.3 27.5
 265 22.1 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#88

Benzo(b)fluoranthene

Concen: 7.798 ng m

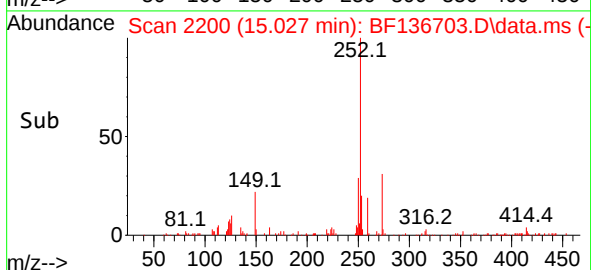
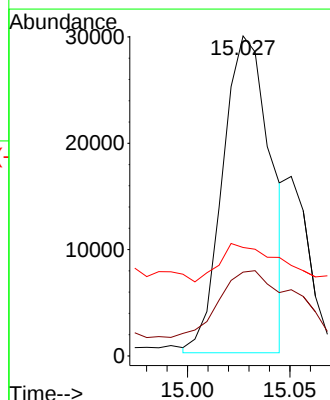
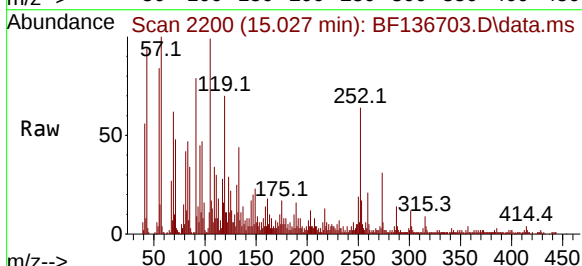
RT: 15.027 min Scan# 2200

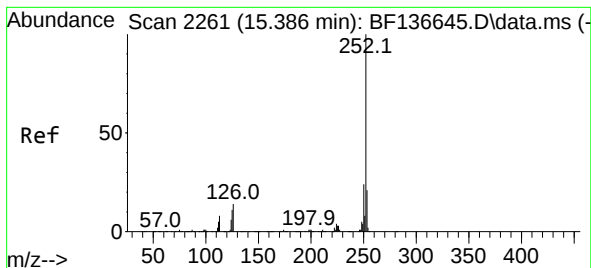
Delta R.T. 0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:252 Resp: 48428
 Ion Ratio Lower Upper
 252 100
 253 26.2 17.4 26.0#
 125 33.9 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 9.654 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

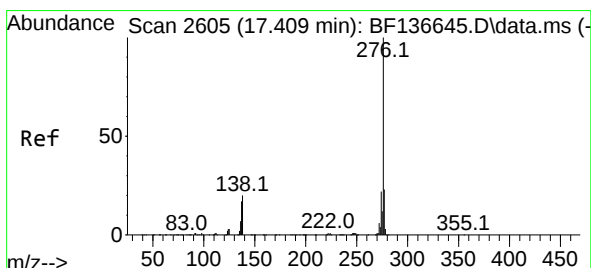
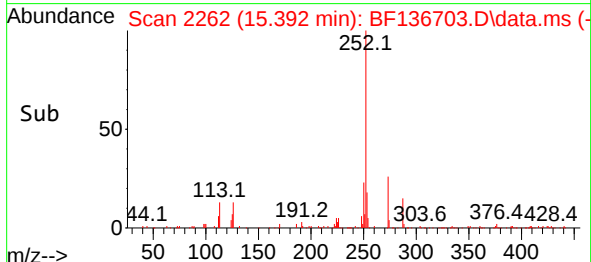
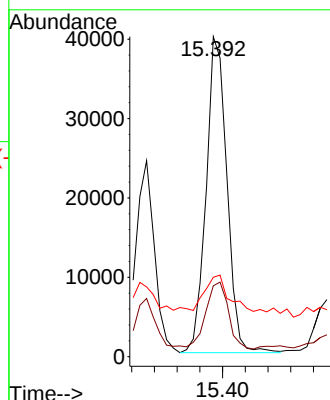
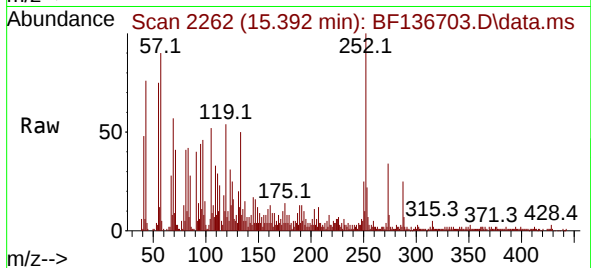
Tgt Ion:252 Resp: 50600
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.0 25.6
 125 24.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/25/2023

Supervised By :mohammad ahmed 12/25/2023



#92

Benzo(g,h,i)perylene

Concen: 2.764 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:276 Resp: 15591
 Ion Ratio Lower Upper
 276 100
 277 31.4 18.3 27.5#
 138 25.4 15.6 23.4#

