

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071123\
 Data File : BF134232.D
 Acq On : 12 Jul 2023 01:45
 Operator : CG\JU
 Sample : 03570-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-03-071023

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/12/2023
 Supervised By :mohammad ahmed 07/12/2023

Quant Time: Jul 12 03:55:27 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 11 13:06:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	93505	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	325031	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	125836	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	227864	20.000	ng	0.00
76) Chrysene-d12	14.045	240	148423	20.000	ng	0.00
86) Perylene-d12	15.551	264	116131	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	314963	56.346	ng	0.00
7) Phenol-d6	6.481	99	363021	52.808	ng	0.00
23) Nitrobenzene-d5	7.404	82	231041	38.317	ng	0.00
42) 2,4,6-Tribromophenol	10.674	330	77918	49.386	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	370255	42.779	ng	0.00
79) Terphenyl-d14	12.974	244	351854	38.153	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.745	152	34811	2.759	ng	96
52) Acenaphthene	9.916	154	20476	2.797	ng	96
58) Fluorene	10.433	166	36874	4.143	ng	96
71) Phenanthrene	11.404	178	295137	25.729	ng	99
72) Anthracene	11.457	178	93634	7.848	ng	98
75) Fluoranthene	12.604	202	416899	33.617	ng	97
78) Pyrene	12.833	202	441199	31.941	ng	100
81) Benzo(a)anthracene	14.033	228	169636	16.480	ng	95
83) Chrysene	14.068	228	156064m	15.654	ng	
87) Indeno(1,2,3-cd)pyrene	17.103	276	63834	7.921	ng	96
88) Benzo(b)fluoranthene	15.110	252	149489m	21.892	ng	
89) Benzo(k)fluoranthene	15.133	252	39485m	5.679	ng	
90) Benzo(a)pyrene	15.486	252	108644	16.453	ng	95
91) Dibenzo(a,h)anthracene	17.115	278	16631	2.527	ng	# 64
92) Benzo(g,h,i)perylene	17.580	276	64913	9.564	ng	98

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

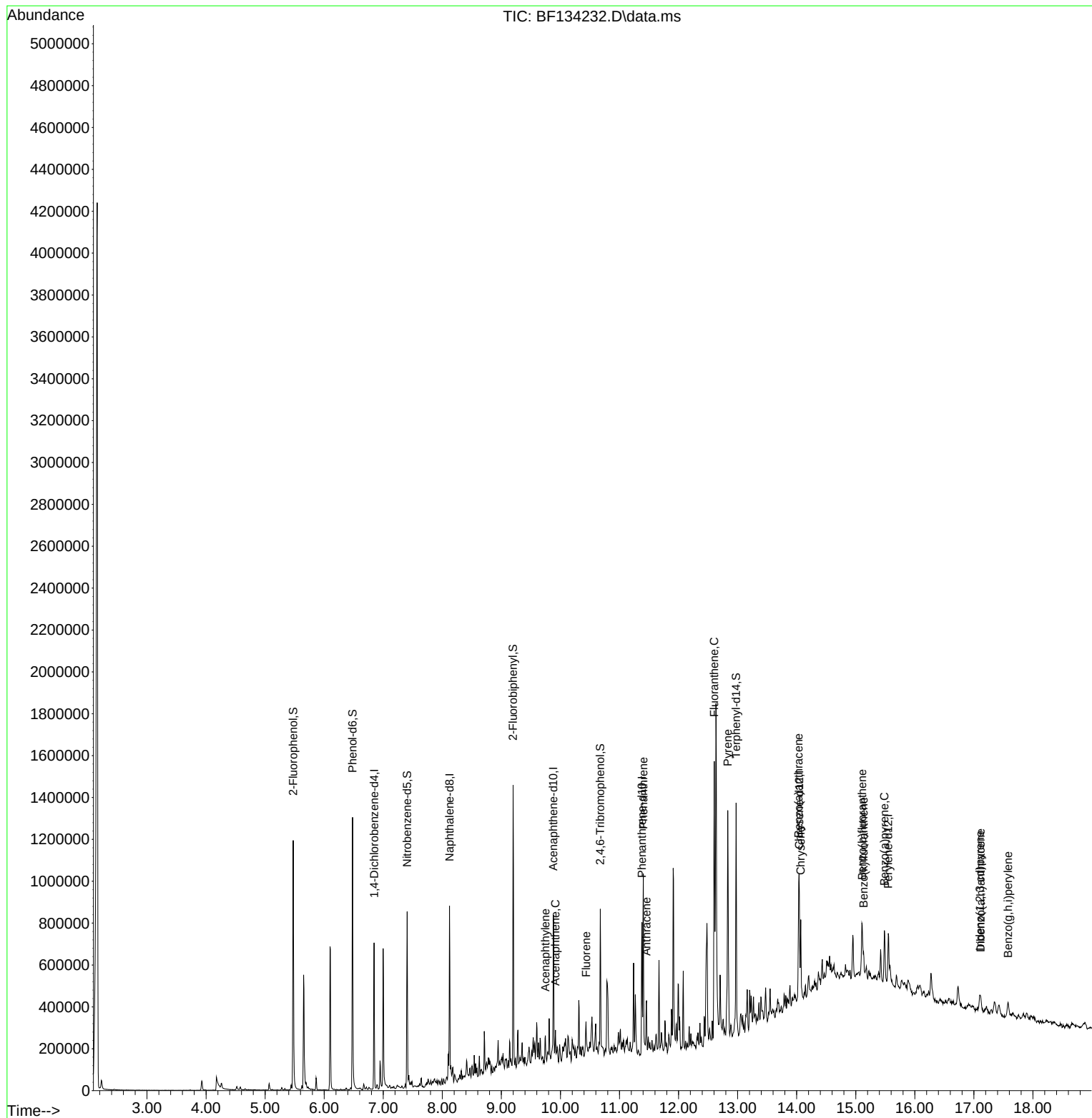
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071123\
Data File : BF134232.D
Acq On : 12 Jul 2023 01:45
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ALS Vial : 17 Sample Multiplier: 1

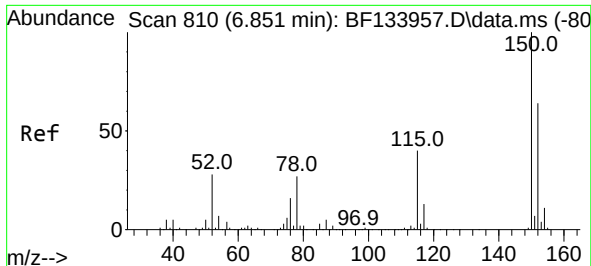
Instrument :
BNA_F
ClientSampleId :
EO-03-071023

Quant Time: Jul 12 03:55:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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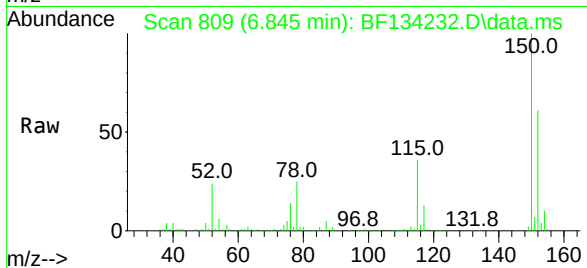
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 809
Delta R.T. 0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

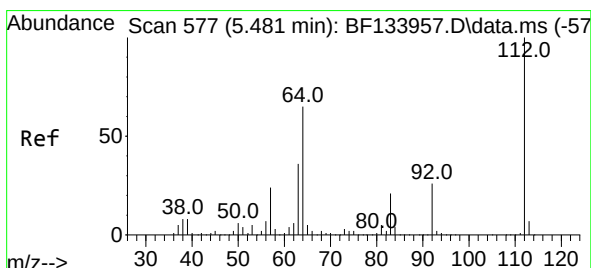
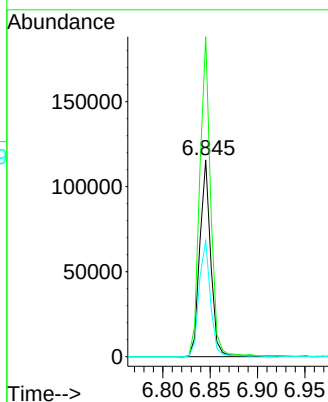
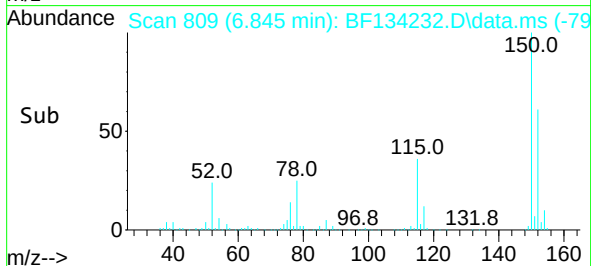


Tgt Ion:152 Resp: 9350
Ion Ratio Lower Upper
152 100
150 162.7 124.5 186.7
115 59.0 50.2 75.2

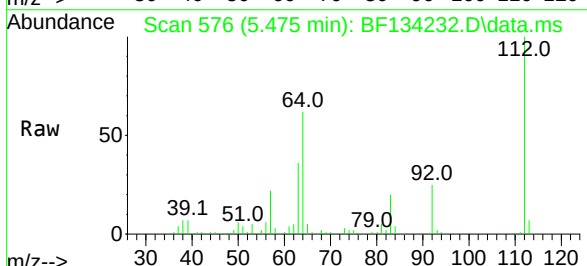
Manual Integrations

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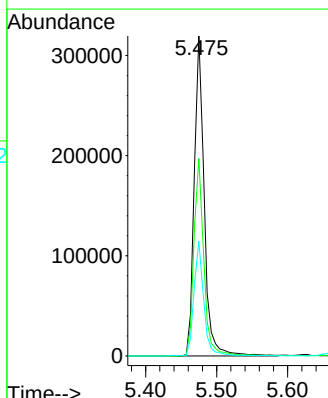
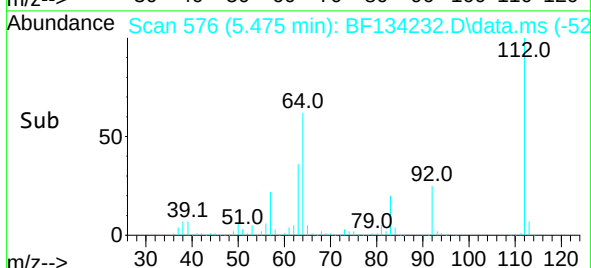
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023

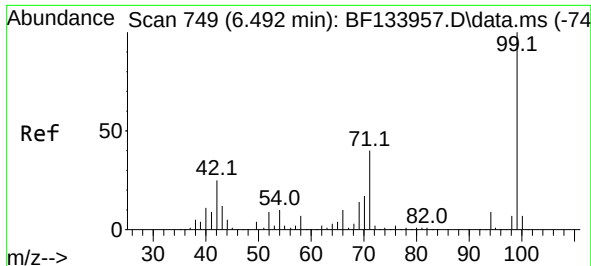


#5
2-Fluorophenol
Concen: 56.346 ng
RT: 5.475 min Scan# 576
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45



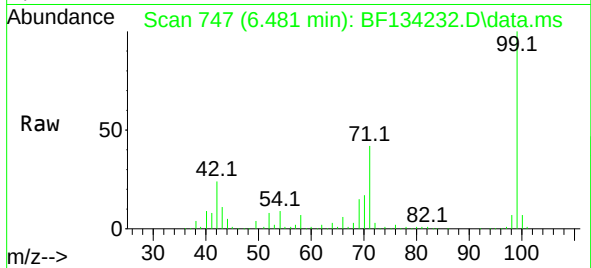
Tgt Ion:112 Resp: 314963
Ion Ratio Lower Upper
112 100
64 61.8 52.1 78.1
63 35.9 28.6 42.8





#7
Phenol-d6
Concen: 52.808 ng
RT: 6.481 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

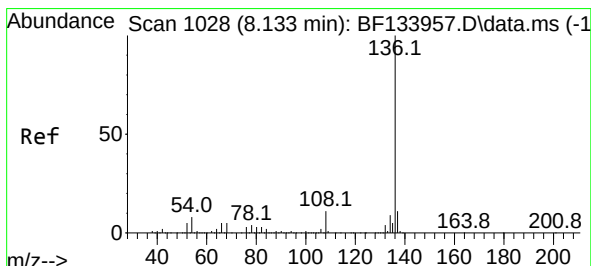
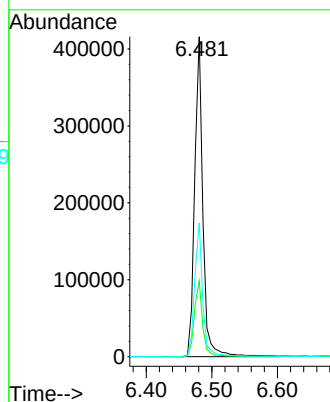
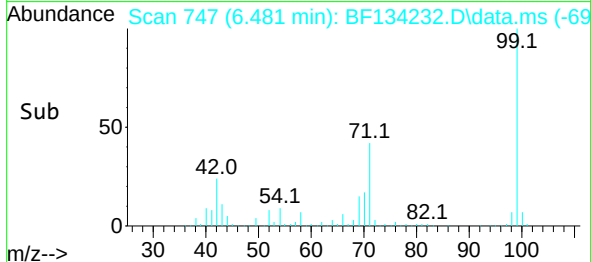
Instrument :
BNA_F
ClientSampleId :
EO-03-071023



Tgt Ion: 99 Resp: 363021
Ion Ratio Lower Upper
99 100
42 23.7 19.8 29.6
71 41.8 31.9 47.9

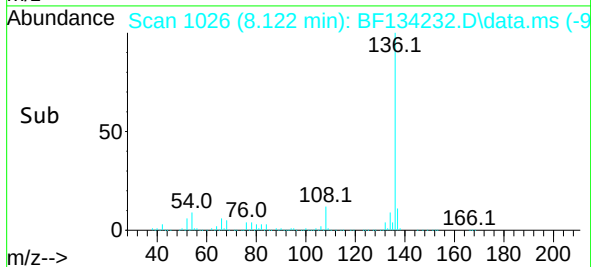
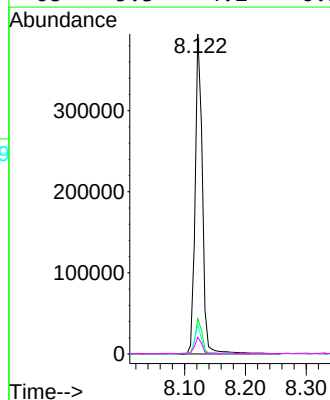
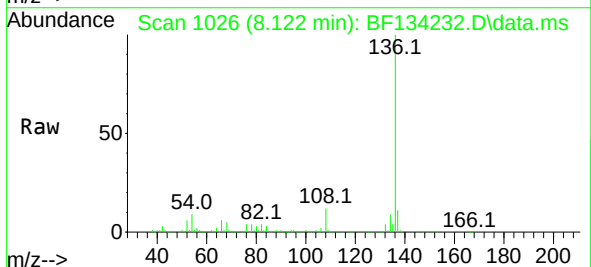
Manual Integrations
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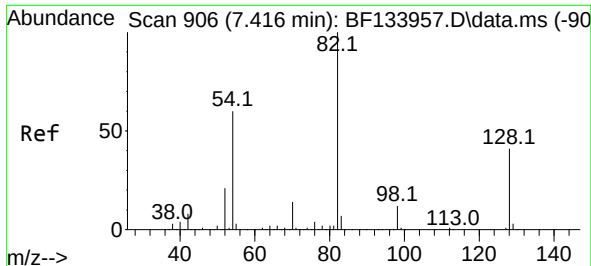
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Tgt Ion:136 Resp: 325031
Ion Ratio Lower Upper
136 100
137 11.1 8.6 12.8
54 9.1 6.5 9.7
68 5.3 4.2 6.2





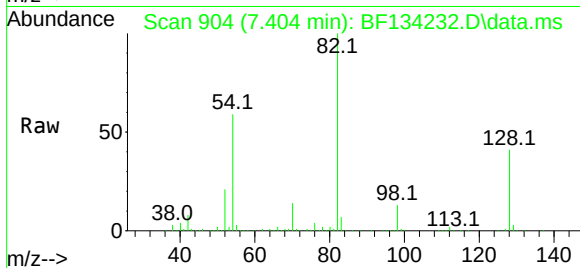
#23
Nitrobenzene-d5
Concen: 38.317 ng
RT: 7.404 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023



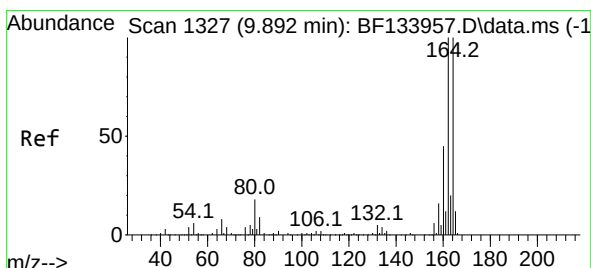
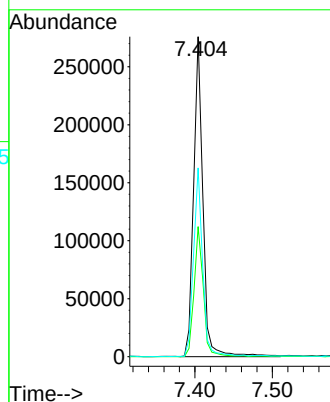
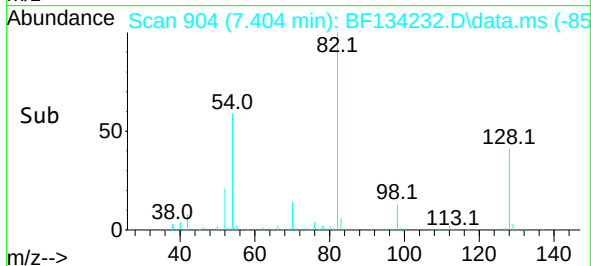
Tgt Ion: 82 Resp: 23104
Ion Ratio Lower Upper
82 100
128 40.7 32.5 48.7
54 59.0 48.2 72.2

Manual Integrations

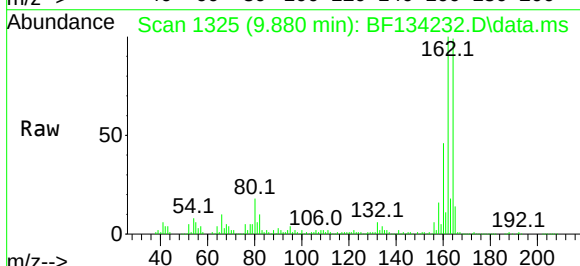
APPROVED

Reviewed By :Yogesh Patel 07/12/2023

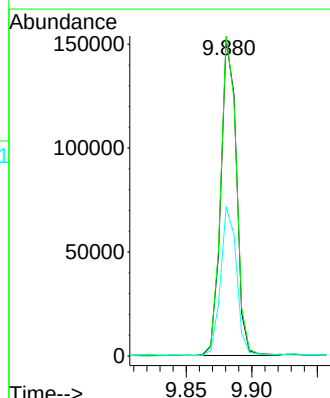
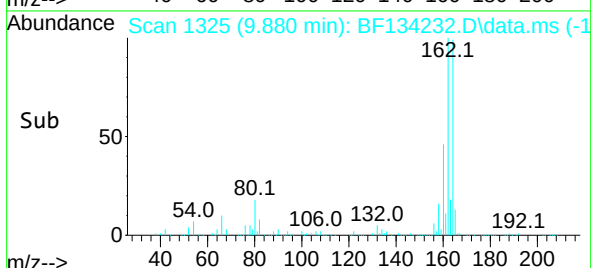
Supervised By :mohammad ahmed 07/12/2023

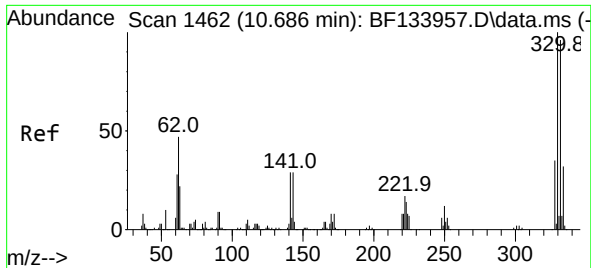


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1325
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45



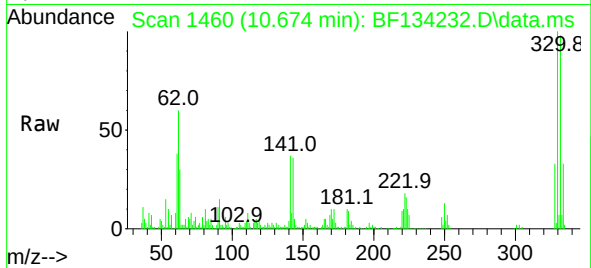
Tgt Ion:164 Resp: 125836
Ion Ratio Lower Upper
164 100
162 101.0 80.0 120.0
160 46.9 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 49.386 ng
RT: 10.674 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

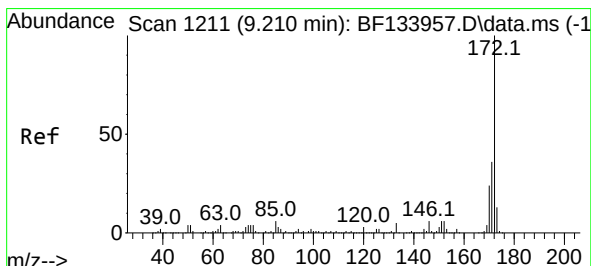
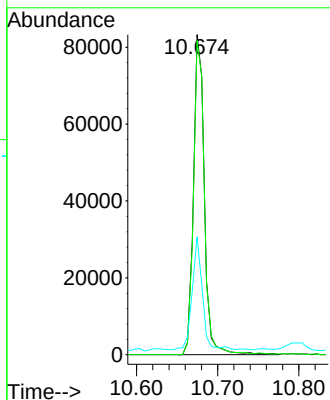
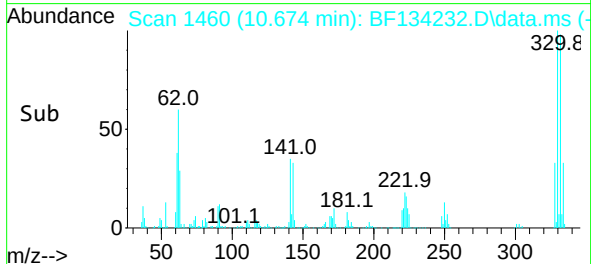
Instrument :
BNA_F
ClientSampleId :
EO-03-071023



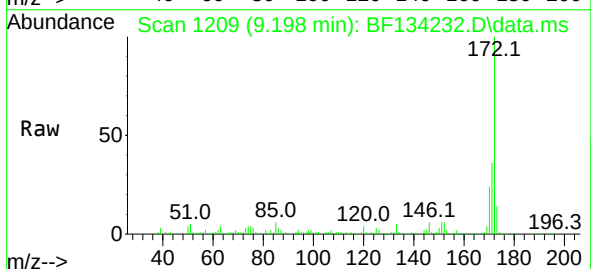
Tgt Ion: 330 Resp: 77918
Ion Ratio Lower Upper
330 100
332 98.2 77.0 115.6
141 33.1 26.3 39.5

Manual Integrations
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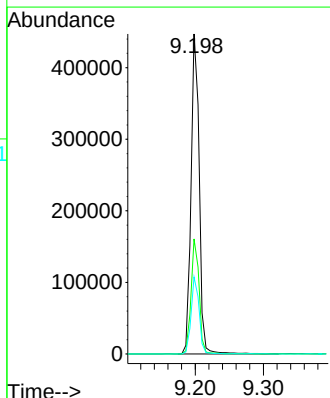
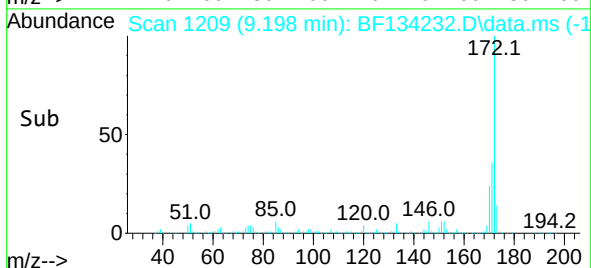
Reviewed By : Yogesh Patel 07/12/2023
Supervised By : mohammad ahmed 07/12/2023

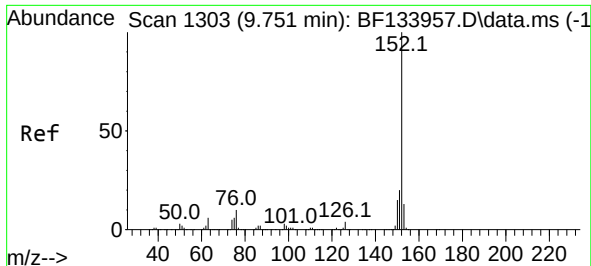


#45
2-Fluorobiphenyl
Concen: 42.779 ng
RT: 9.198 min Scan# 1209
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45



Tgt Ion: 172 Resp: 370255
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 24.1 19.4 29.0





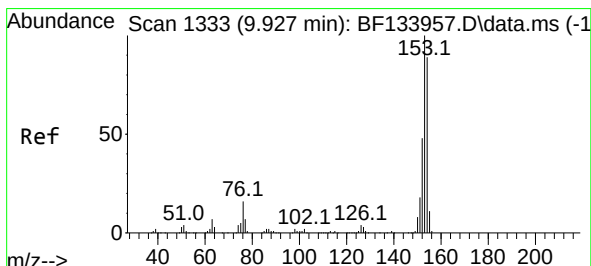
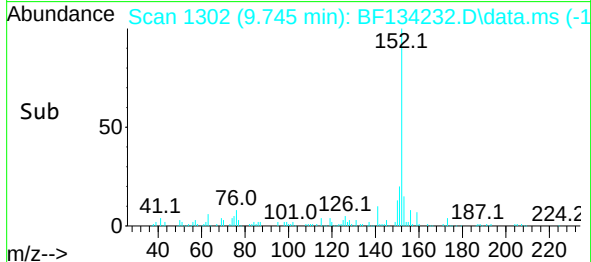
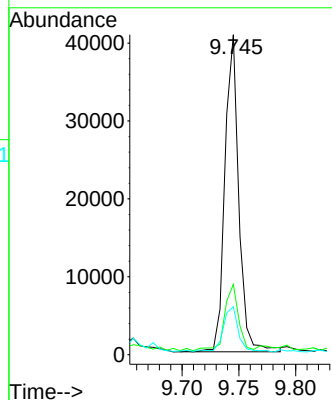
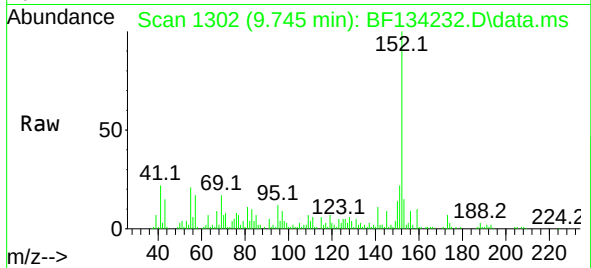
#49
Acenaphthylene
Concen: 2.759 ng
RT: 9.745 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Instrument :
BNA_F
ClientSampleId :
EO-03-071023

Tgt Ion:152 Resp: 3481
Ion Ratio Lower Upper
152 100
151 22.0 16.2 24.2
153 15.0 10.8 16.2

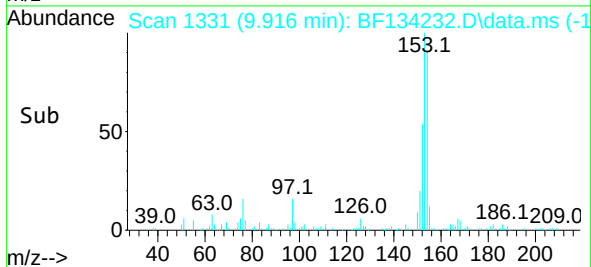
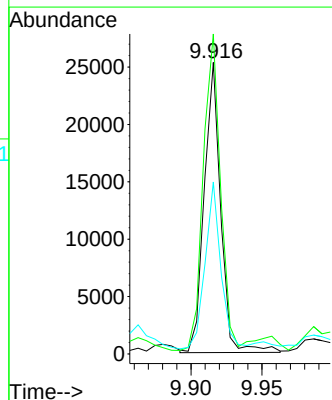
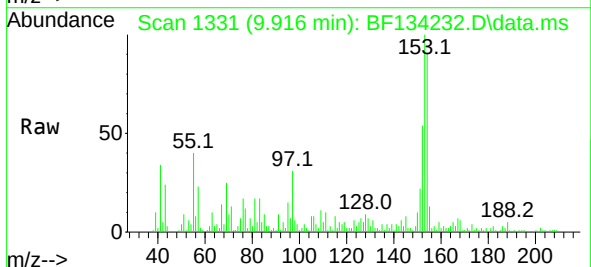
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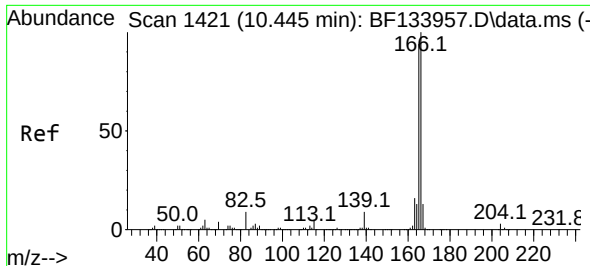
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023



#52
Acenaphthene
Concen: 2.797 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

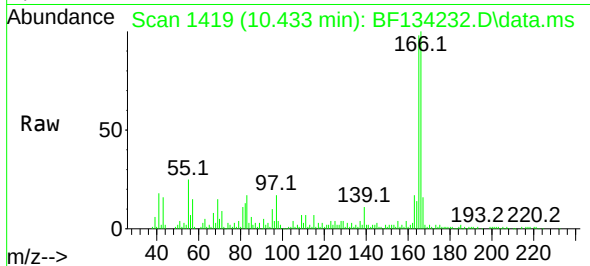
Tgt Ion:154 Resp: 20476
Ion Ratio Lower Upper
154 100
153 109.8 89.4 134.2
152 59.0 42.8 64.2





#58
Fluorene
Concen: 4.143 ng
RT: 10.433 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

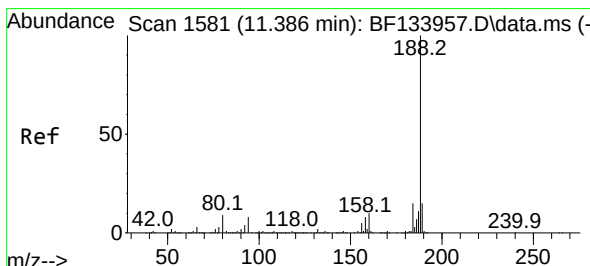
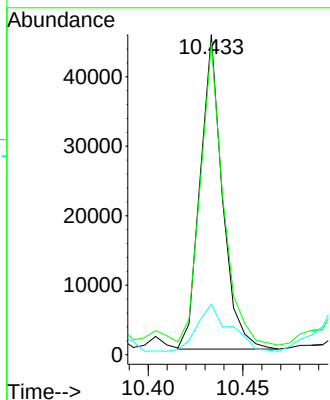
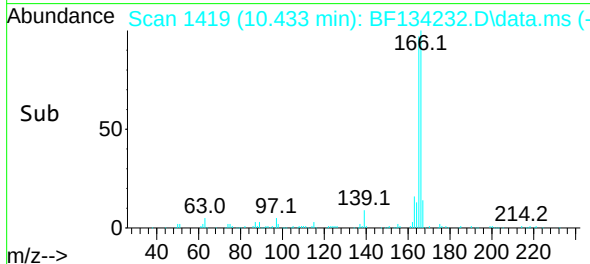
Instrument :
BNA_F
ClientSampleId :
EO-03-071023



Tgt Ion:166 Resp: 36874
Ion Ratio Lower Upper
166 100
165 97.6 75.0 112.4
167 15.8 10.6 15.8

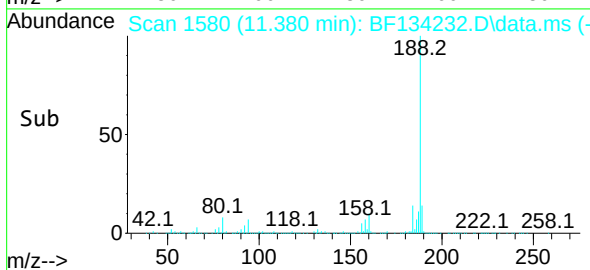
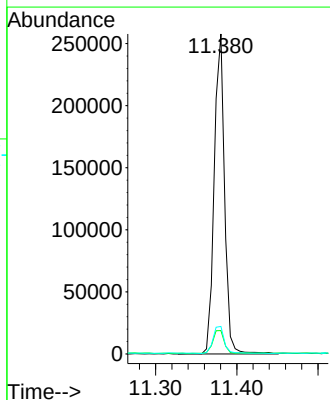
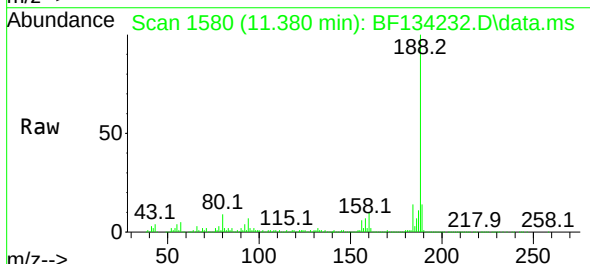
Manual Integrations
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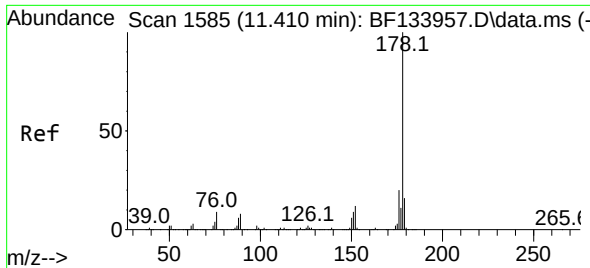
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

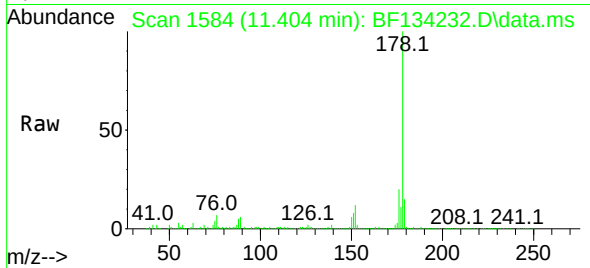
Tgt Ion:188 Resp: 227864
Ion Ratio Lower Upper
188 100
94 7.3 6.4 9.6
80 8.6 7.3 10.9





#71
Phenanthrene
Concen: 25.729 ng
RT: 11.404 min Scan# 1585
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

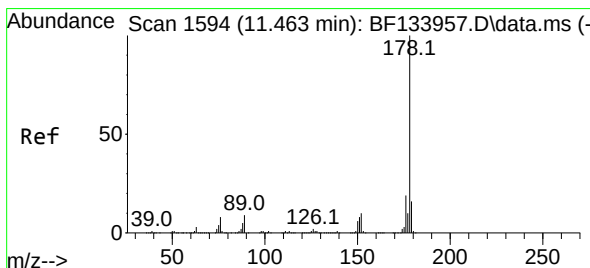
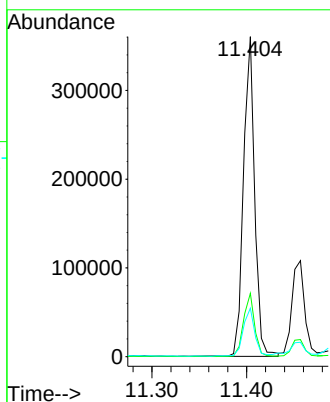
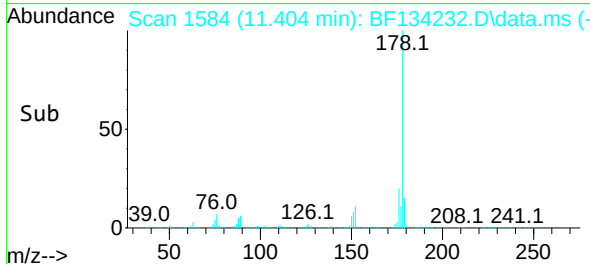
Instrument :
BNA_F
ClientSampleId :
EO-03-071023



Tgt Ion:178 Resp: 29513
Ion Ratio Lower Upper
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176 19.8 16.0 24.0
179 15.2 12.4 18.6

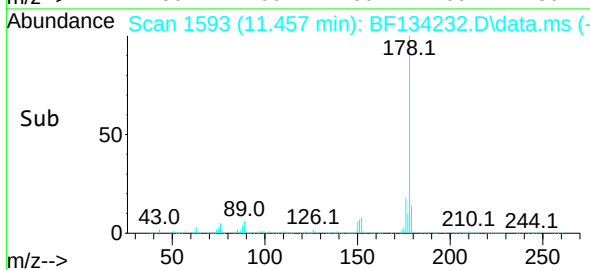
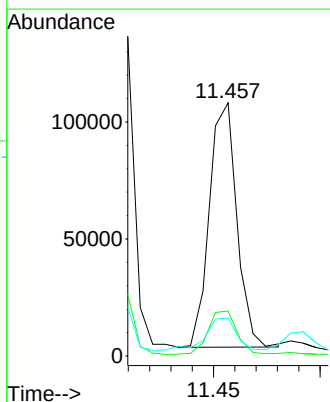
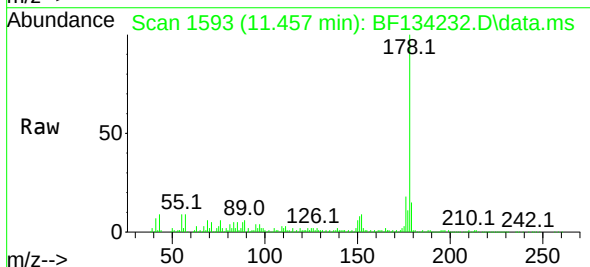
Manual Integrations
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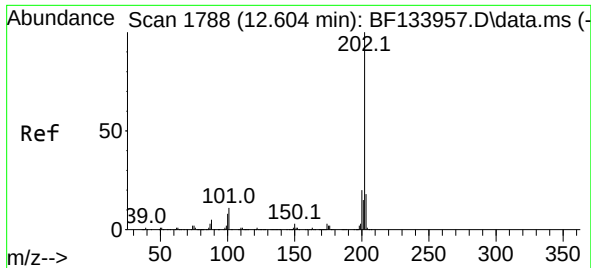
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023



#72
Anthracene
Concen: 7.848 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

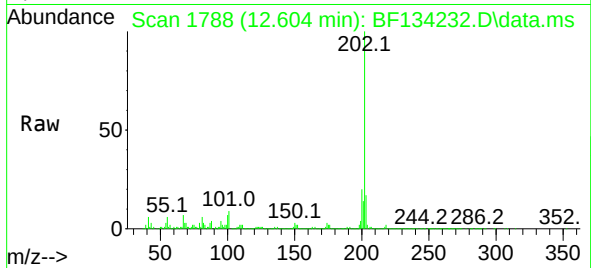
Tgt Ion:178 Resp: 93634
Ion Ratio Lower Upper
178 100
176 17.8 15.3 22.9
179 15.0 12.4 18.6





#75
Fluoranthene
Concen: 33.617 ng
RT: 12.604 min Scan# 1788
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

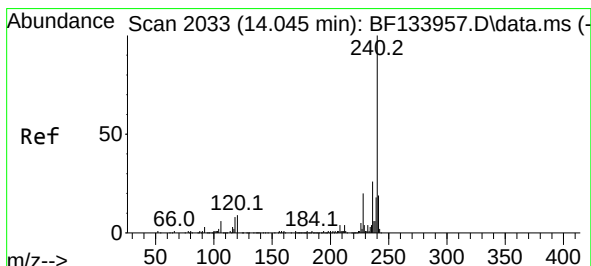
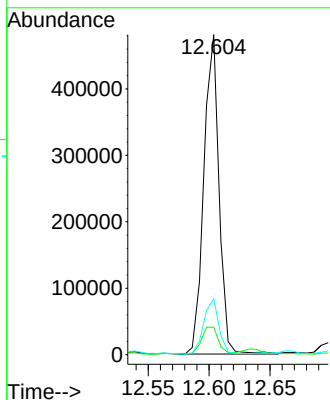
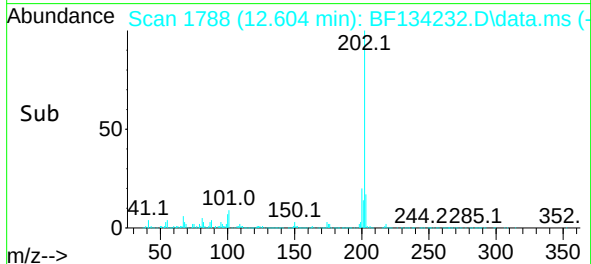
Instrument :
BNA_F
ClientSampleId :
EO-03-071023



Tgt Ion:202 Resp: 416899
Ion Ratio Lower Upper
202 100
101 8.5 0.0 31.0
203 17.4 0.0 37.6

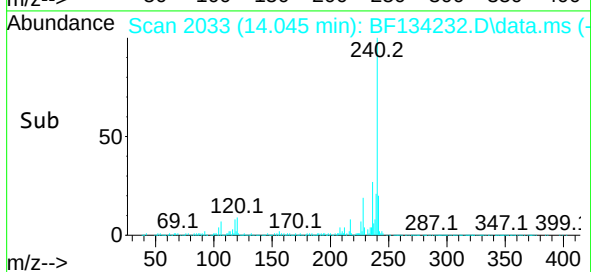
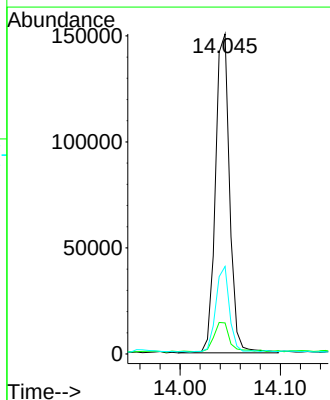
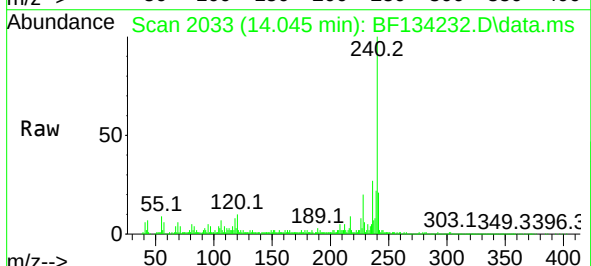
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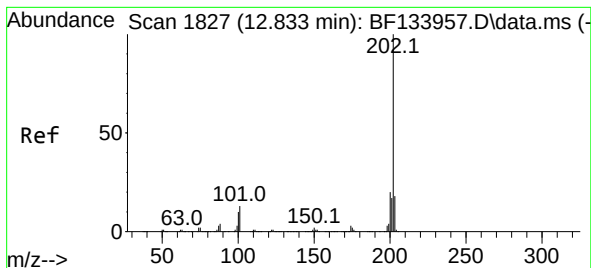
Reviewed By :Yogesh Patel 07/12/2023
Supervised By :mohammad ahmed 07/12/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.006 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Tgt Ion:240 Resp: 148423
Ion Ratio Lower Upper
240 100
120 9.7 7.4 11.0
236 27.3 21.0 31.6





#78

Pyrene

Concen: 31.941 ng

RT: 12.833 min Scan# 1827

Delta R.T. -0.000 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

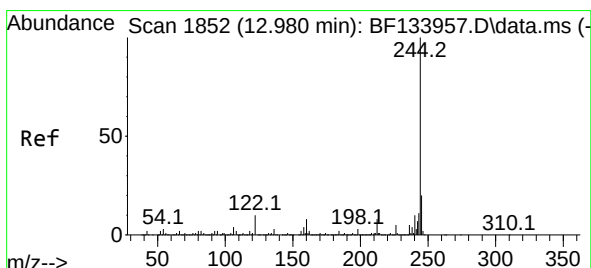
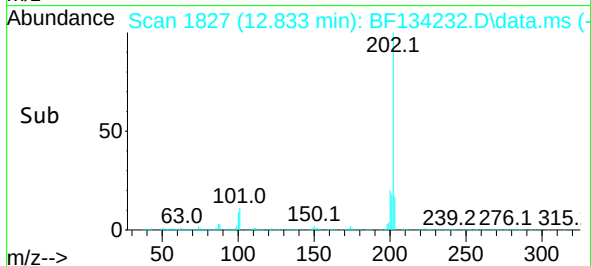
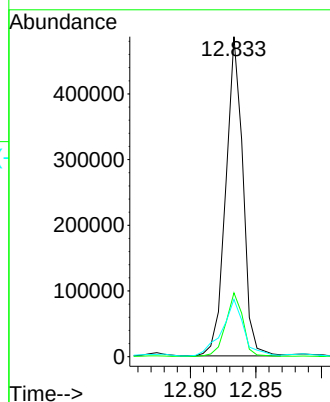
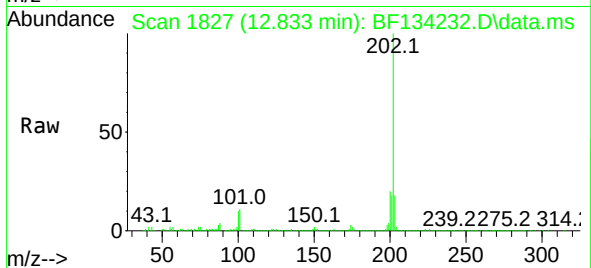
Tgt Ion:	202	Resp:	441199
Ion Ratio	Lower	Upper	
202	100		
200	19.9	16.1	24.1
203	17.9	14.3	21.5

Manual Integrations

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Reviewed By :Yogesh Patel 07/12/2023

Supervised By :mohammad ahmed 07/12/2023



#79

Terphenyl-d14

Concen: 38.153 ng

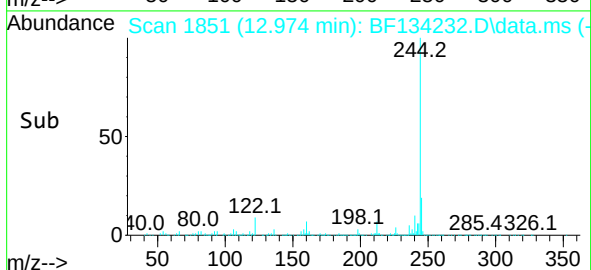
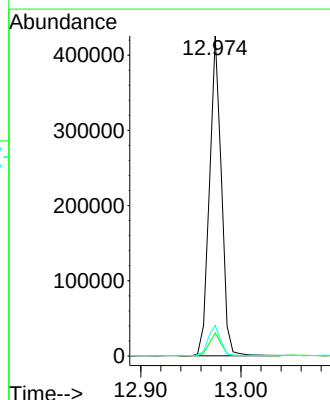
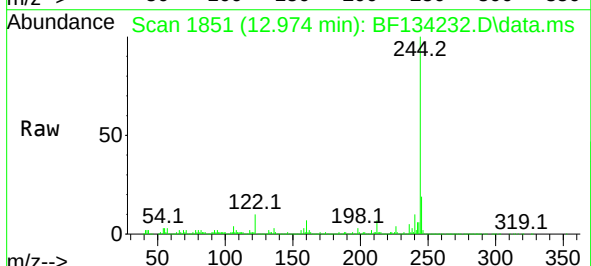
RT: 12.974 min Scan# 1851

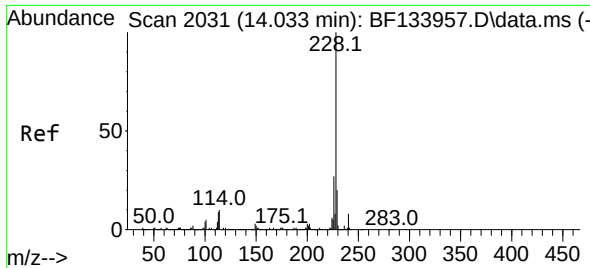
Delta R.T. -0.000 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Tgt Ion:	244	Resp:	351854
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.0	9.0
122	9.6	8.3	12.5





#81
Benzo(a)anthracene
Concen: 16.480 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

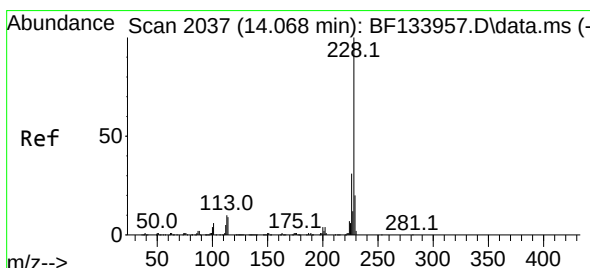
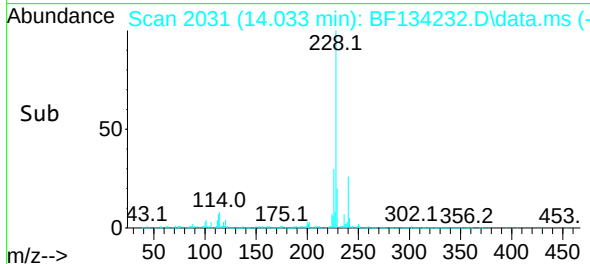
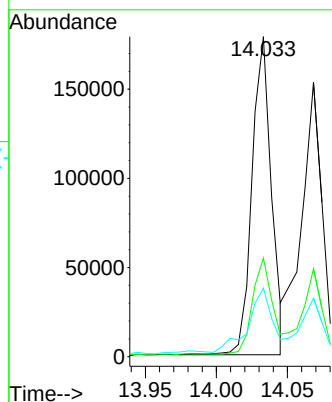
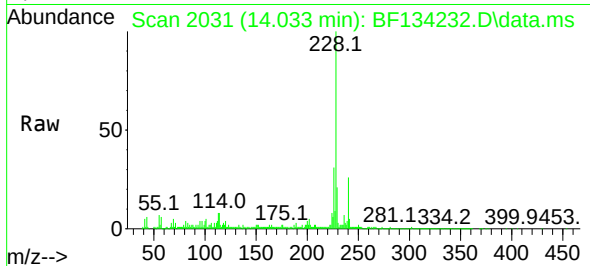
Tgt Ion:228 Resp: 169630
Ion Ratio Lower Upper
228 100
226 30.8 22.0 33.0
229 21.4 16.3 24.5

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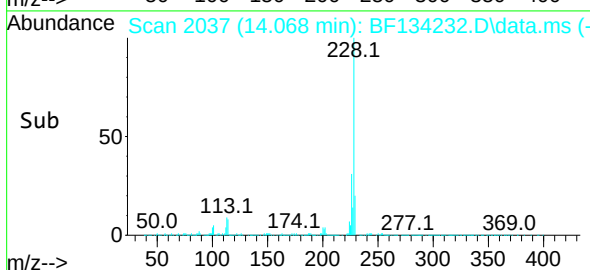
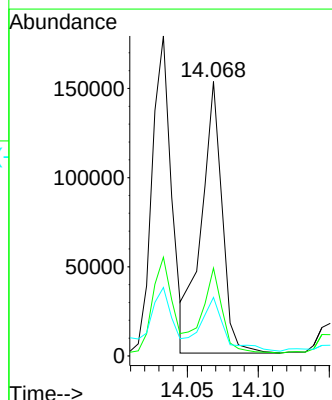
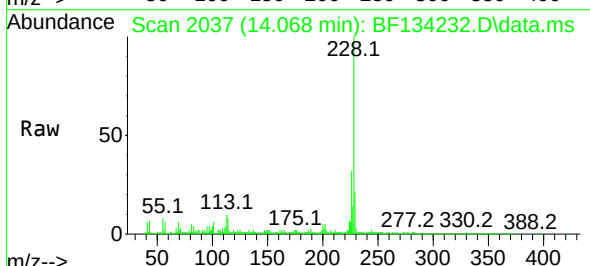
Reviewed By :Yogesh Patel 07/12/2023

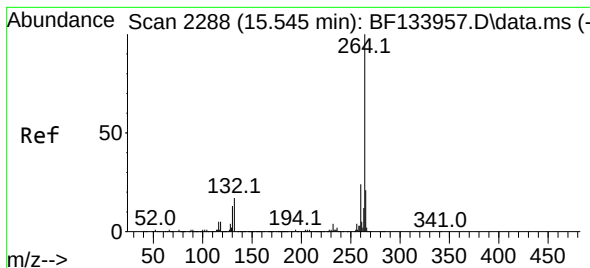
Supervised By :mohammad ahmed 07/12/2023



#83
Chrysene
Concen: 15.654 ng m
RT: 14.068 min Scan# 2037
Delta R.T. -0.000 min
Lab File: BF134232.D
Acq: 12 Jul 2023 01:45

Tgt Ion:228 Resp: 156064
Ion Ratio Lower Upper
228 100
226 32.0 24.4 36.6
229 21.3 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

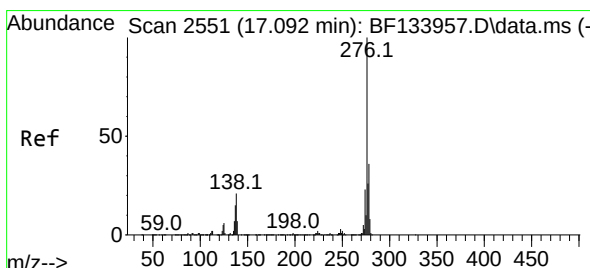
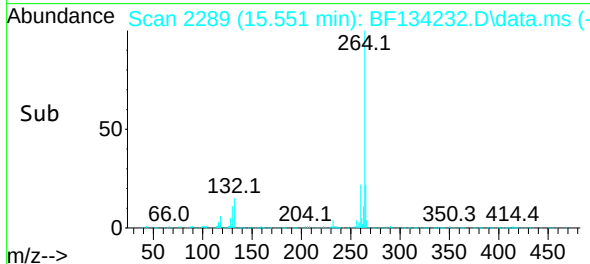
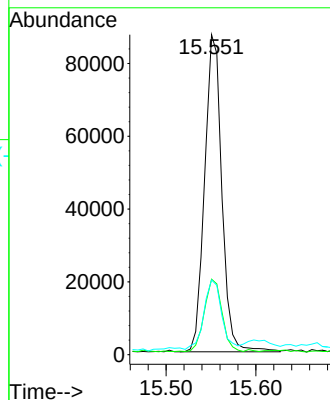
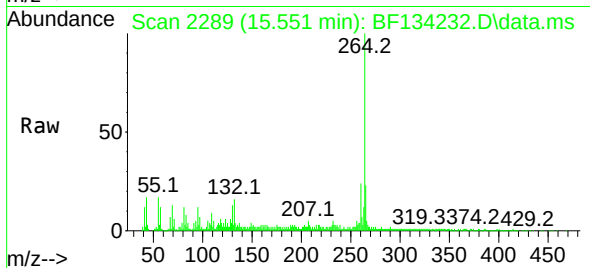
Tgt Ion:264 Resp: 11613
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.5 29.3
 265 23.4 16.6 25.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/12/2023

Supervised By :mohammad ahmed 07/12/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.921 ng

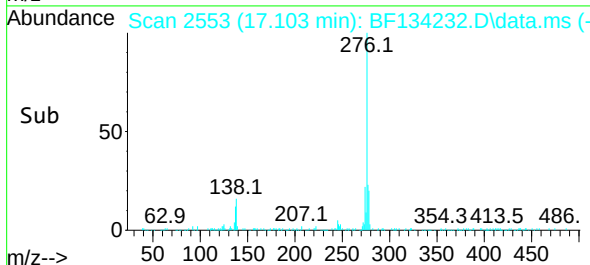
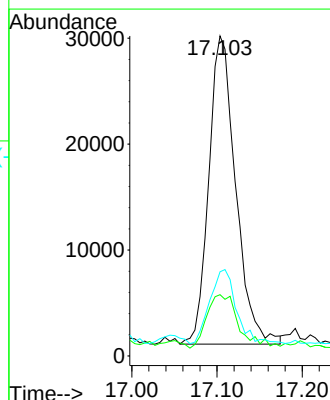
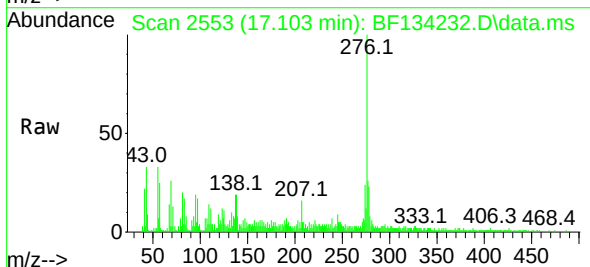
RT: 17.103 min Scan# 2553

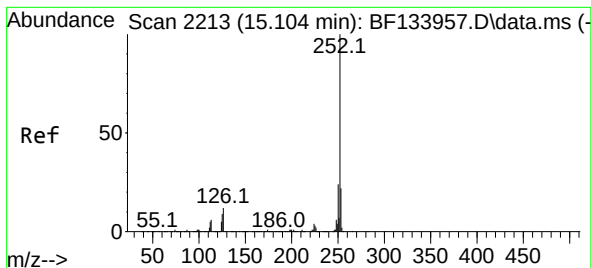
Delta R.T. 0.006 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Tgt Ion:276 Resp: 63834
 Ion Ratio Lower Upper
 276 100
 138 20.6 18.7 28.1
 277 23.6 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 21.892 ng m

RT: 15.110 min Scan# 2214

Delta R.T. 0.006 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

Tgt Ion:252 Resp: 149489

Ion Ratio Lower Upper

252 100

253 25.6 17.4 26.0

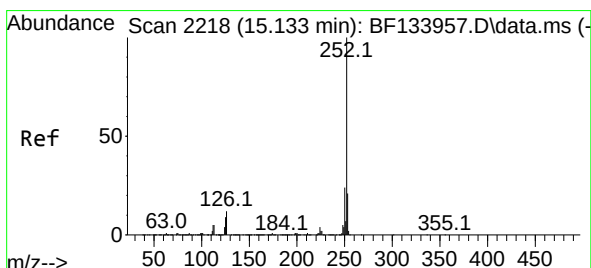
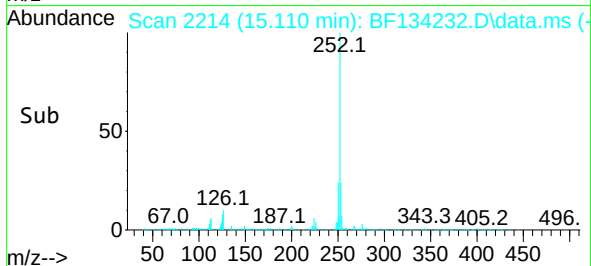
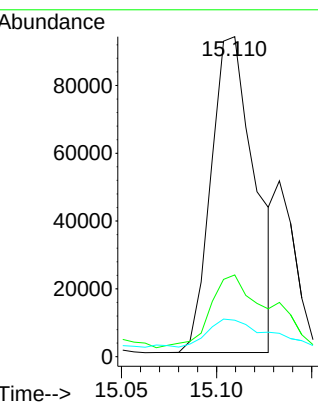
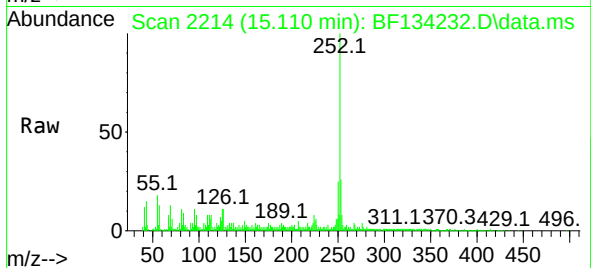
125 11.4 7.1 10.7

Manual Integrations

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Reviewed By :Yogesh Patel 07/12/2023

Supervised By :mohammad ahmed 07/12/2023



#89

Benzo(k)fluoranthene

Concen: 5.679 ng m

RT: 15.133 min Scan# 2218

Delta R.T. -0.000 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

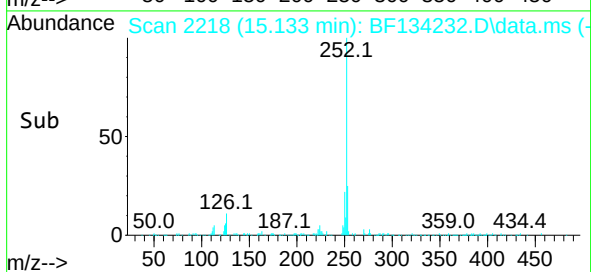
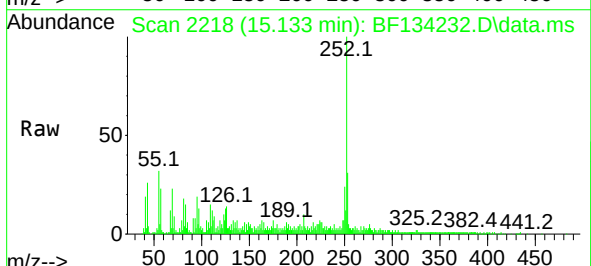
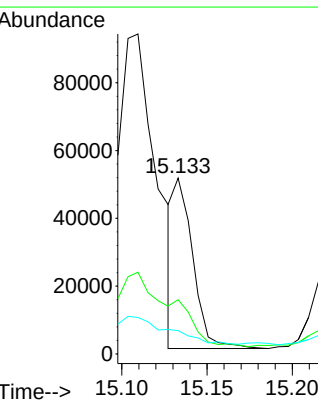
Tgt Ion:252 Resp: 39485

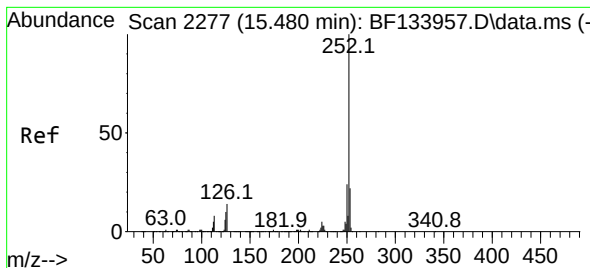
Ion Ratio Lower Upper

252 100

253 30.8 16.9 25.3#

125 13.3 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 16.453 ng

RT: 15.486 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

Instrument :

BNA_F

ClientSampleId :

EO-03-071023

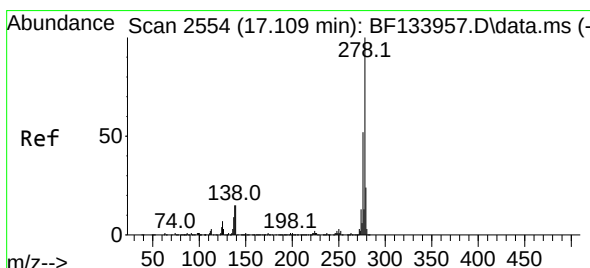
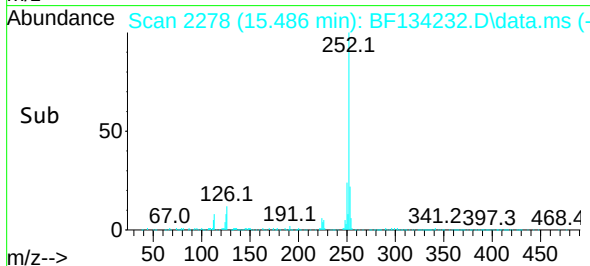
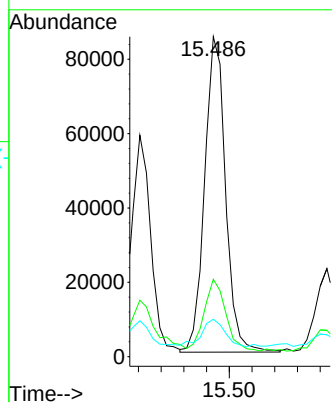
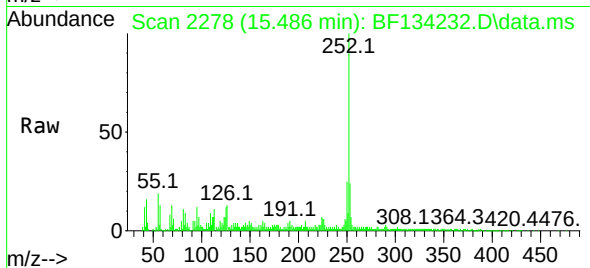
Tgt Ion:252 Resp: 108644
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.4 26.0
 125 11.7 8.4 12.6

Manual Integrations

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Reviewed By :Yogesh Patel 07/12/2023

Supervised By :mohammad ahmed 07/12/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.527 ng

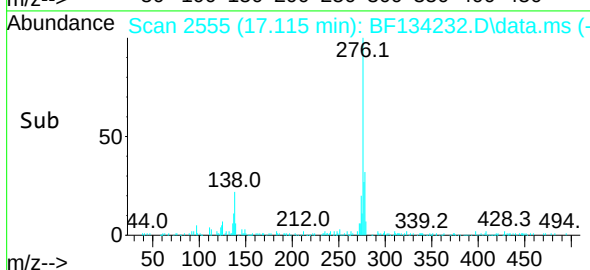
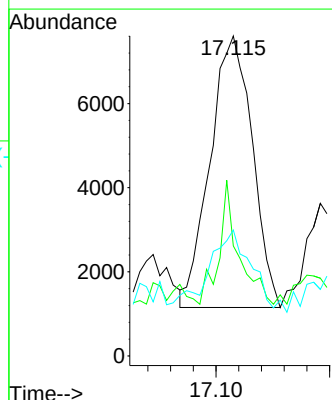
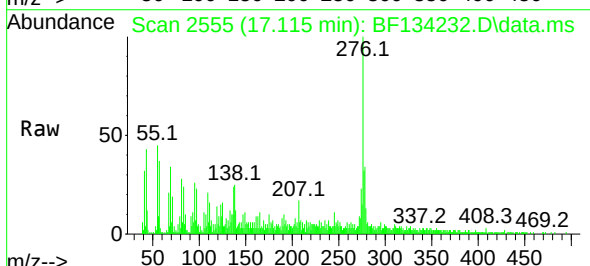
RT: 17.115 min Scan# 2555

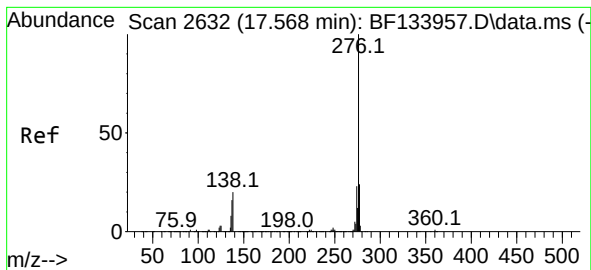
Delta R.T. -0.000 min

Lab File: BF134232.D

Acq: 12 Jul 2023 01:45

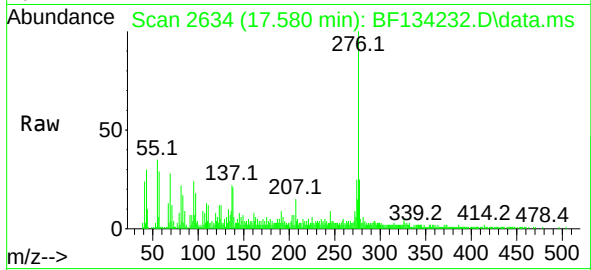
Tgt Ion:278 Resp: 16631
 Ion Ratio Lower Upper
 278 100
 139 34.4 12.2 18.4#
 279 39.4 19.4 29.2#





#92
 Benzo(g,h,i)perylene
 Concen: 9.564 ng
 RT: 17.580 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF134232.D
 Acq: 12 Jul 2023 01:45

Instrument :
 BNA_F
 ClientSampleId :
 EO-03-071023



Tgt Ion:	276	Resp:	6491
Ion Ratio	Lower	Upper	
276	100		
277	24.8	19.0	28.6
138	21.4	16.2	24.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/12/2023
 Supervised By :mohammad ahmed 07/12/2023

