

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081023\
 Data File : BF134714.D
 Acq On : 10 Aug 2023 17:55
 Operator : CG\JU
 Sample : 03954-19 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-21

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/11/2023
 Supervised By :mohammad ahmed 08/11/2023

Quant Time: Aug 11 03:56:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	157190	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	597884	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	292335	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	487688	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	309050	20.000	ng	# 0.00
86) Perylene-d12	15.445	264	299978	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	446039	43.134	ng	0.00
7) Phenol-d6	6.434	99	542744	41.059	ng	0.00
23) Nitrobenzene-d5	7.357	82	334201	34.932	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	136162	45.691	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	669124	38.057	ng	-0.01
79) Terphenyl-d14	12.916	244	621421	35.447	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.098	128	80782	2.688	ng	98
52) Acenaphthene	9.863	154	78759	4.539	ng	97
55) Dibenzofuran	10.039	168	85238	3.451	ng	90
58) Fluorene	10.381	166	99893	5.552	ng	94
71) Phenanthrene	11.351	178	1103981	42.618	ng	99
72) Anthracene	11.398	178	290820	10.991	ng	99
73) Carbazole	11.551	167	128877	5.455	ng	99
75) Fluoranthene	12.539	202	1226136	44.810	ng	95
78) Pyrene	12.769	202	1028749	38.469	ng	98
81) Benzo(a)anthracene	13.963	228	549804	24.880	ng	99
83) Chrysene	13.998	228	450911	20.944	ng	96
87) Indeno(1,2,3-cd)pyrene	16.933	276	188058	10.659	ng	# 95
88) Benzo(b)fluoranthene	15.015	252	535342m	29.261	ng	
89) Benzo(k)fluoranthene	15.039	252	170953m	9.380	ng	
90) Benzo(a)pyrene	15.380	252	354591	20.787	ng	# 94
91) Dibenzo(a,h)anthracene	16.945	278	49614	3.480	ng	# 88
92) Benzo(g,h,i)perylene	17.380	276	163827	11.264	ng	# 91

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

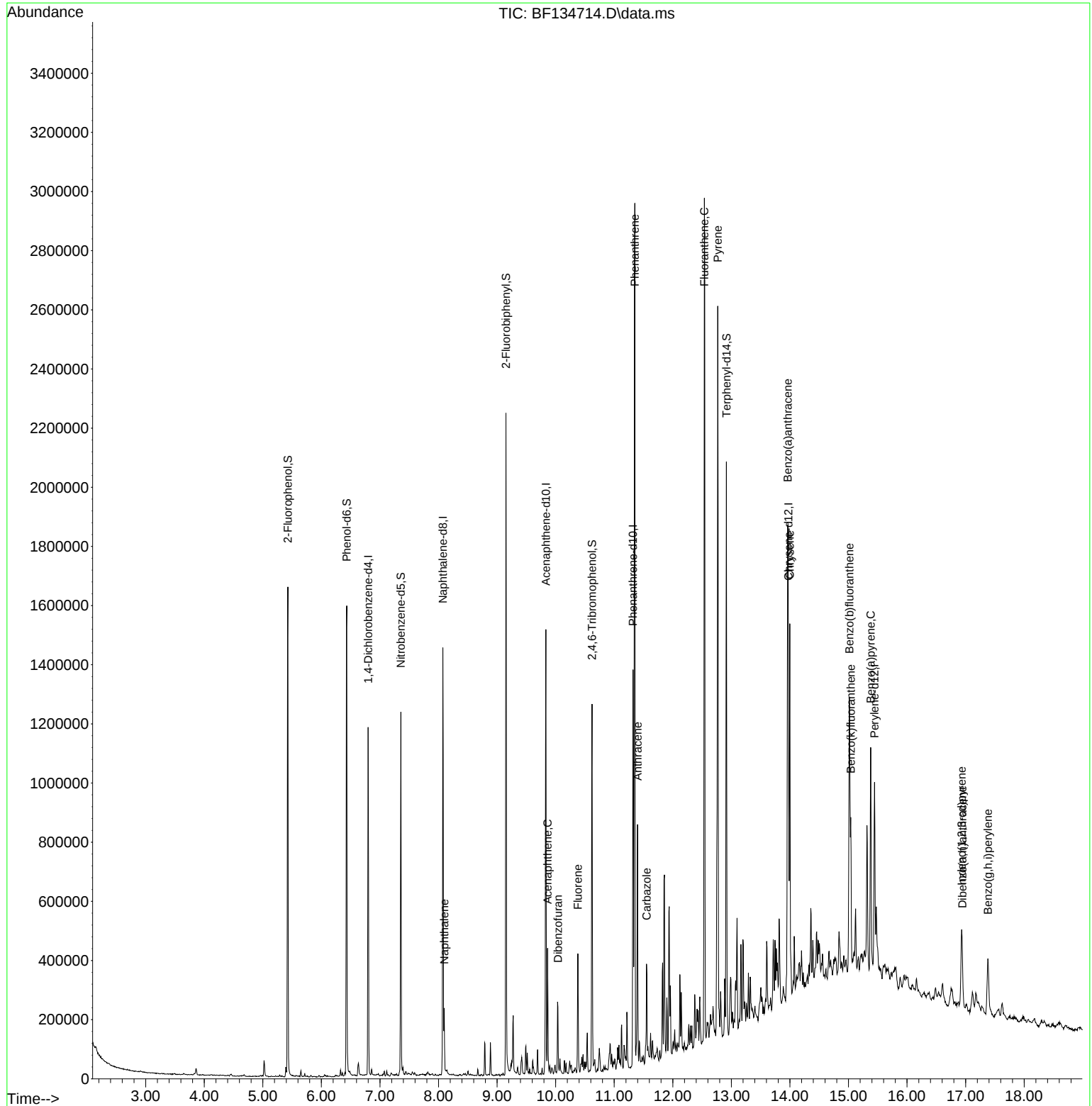
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081023\
Data File : BF134714.D
Acq On : 10 Aug 2023 17:55
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Sample : 03954-19 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

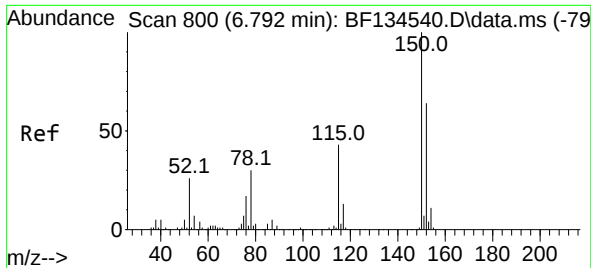
Instrument :
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ClientSampleId :
WC-21

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Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023

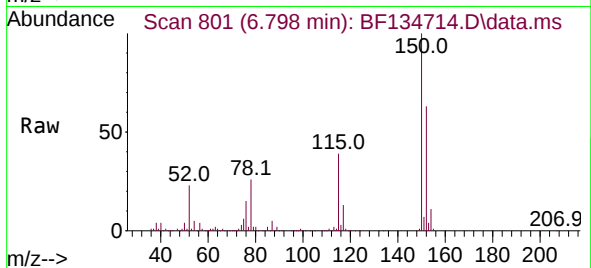
Quant Time: Aug 11 03:56:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 09:29:15 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

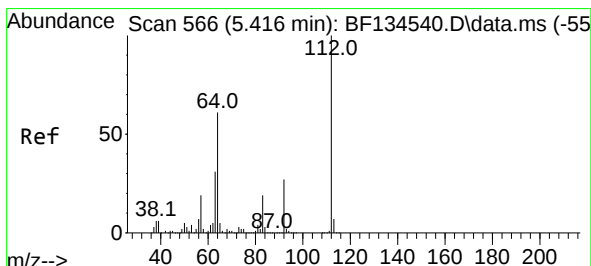
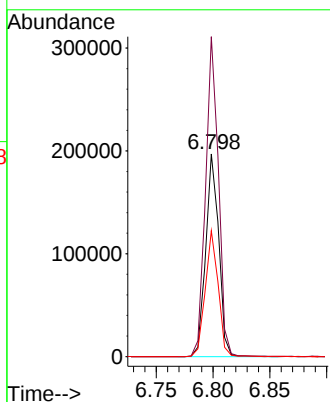
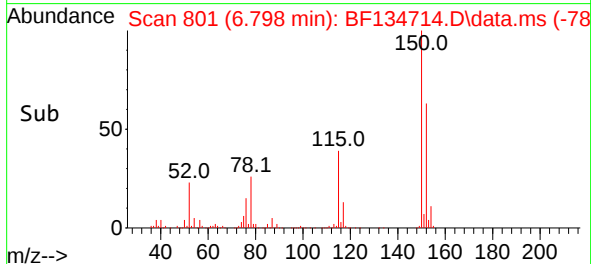
Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:152 Resp: 157190
Ion Ratio Lower Upper
152 100
150 157.9 128.3 192.5
115 62.1 52.4 78.6

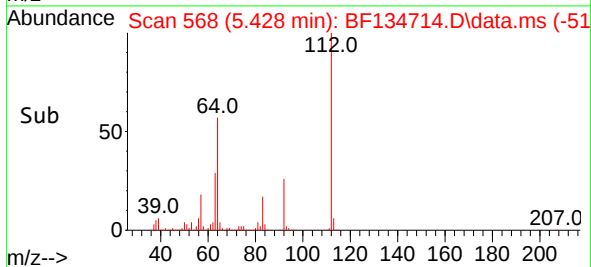
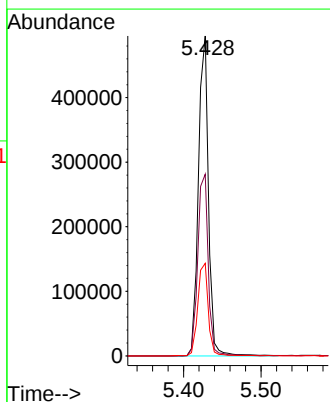
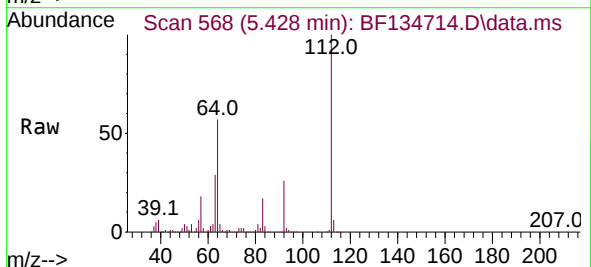
Manual Integrations
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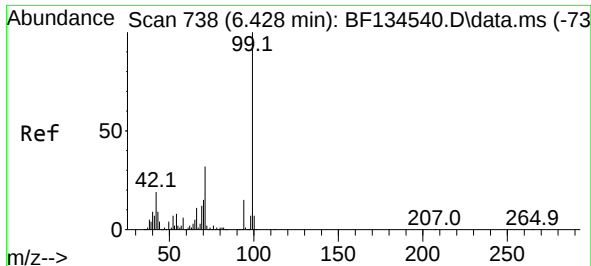
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#5
2-Fluorophenol
Concen: 43.134 ng
RT: 5.428 min Scan# 568
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Tgt Ion:112 Resp: 446039
Ion Ratio Lower Upper
112 100
64 56.8 44.9 67.3
63 28.9 25.4 38.0





#7

Phenol-d6

Concen: 41.059 ng

RT: 6.434 min Scan# 738

Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Instrument :

BNA_F

ClientSampleId :

WC-21

Tgt Ion: 99 Resp: 542744

Ion Ratio Lower Upper

99 100

42 17.0 18.7 28.1#

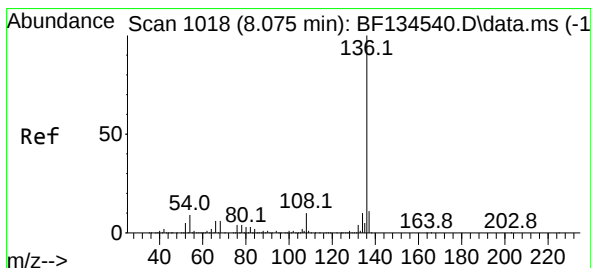
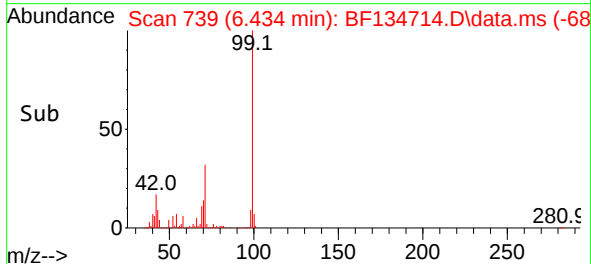
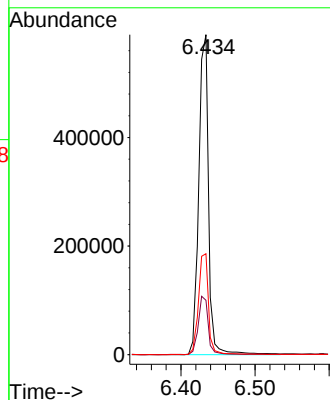
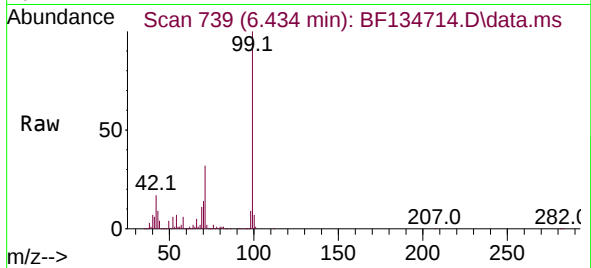
71 31.5 36.4 54.6#

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Supervised By :mohammad ahmed 08/11/2023



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Tgt Ion:136 Resp: 597884

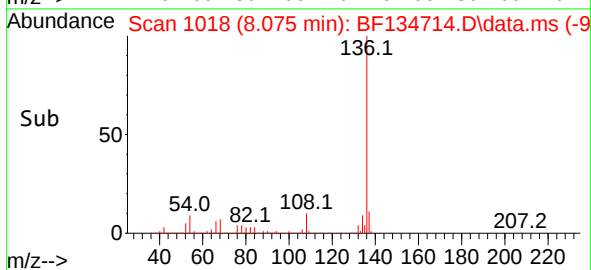
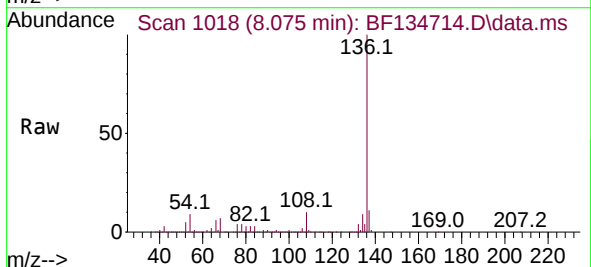
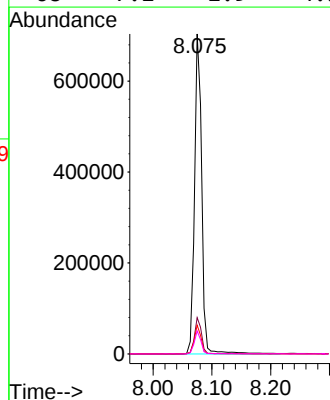
Ion Ratio Lower Upper

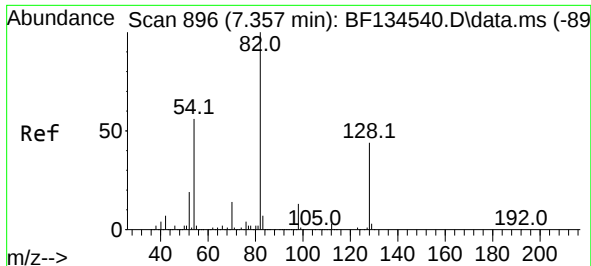
136 100

137 11.3 8.4 12.6

54 9.0 5.2 7.8#

68 7.2 2.9 4.3#





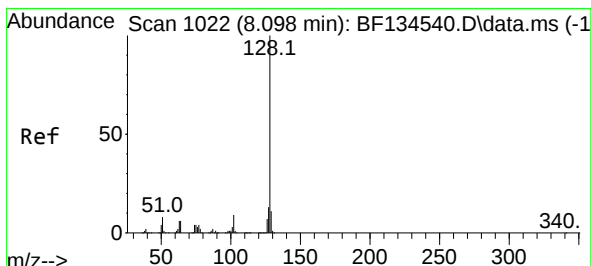
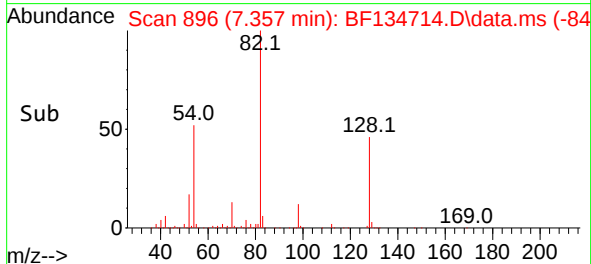
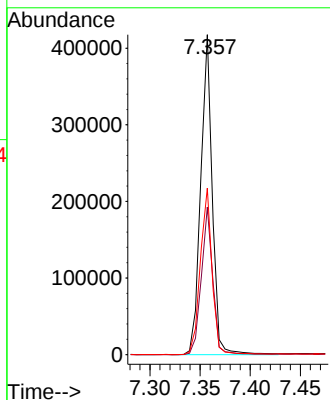
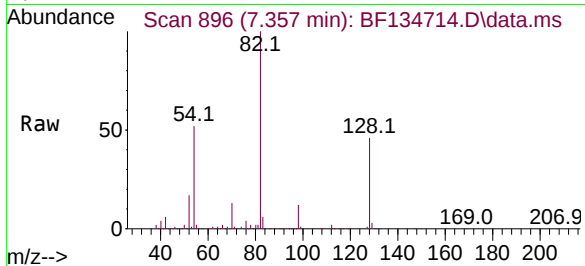
#23
Nitrobenzene-d5
Concen: 34.932 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Instrument :
BNA_F
ClientSampleId :
WC-21

Tgt Ion: 82 Resp: 334201
Ion Ratio Lower Upper
82 100
128 46.1 34.3 51.5
54 52.0 43.8 65.6

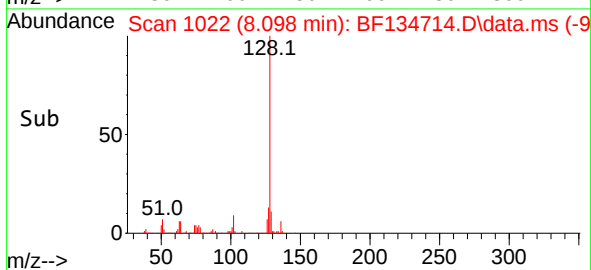
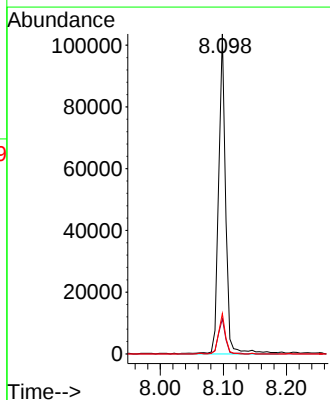
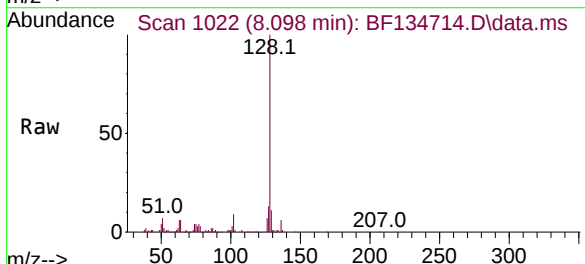
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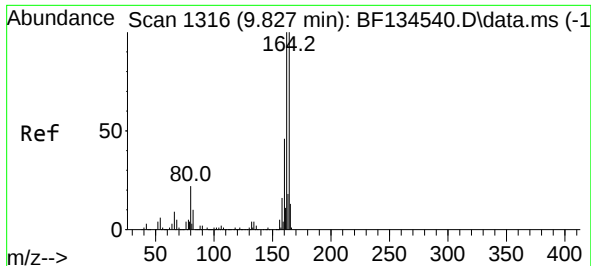
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#31
Naphthalene
Concen: 2.688 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

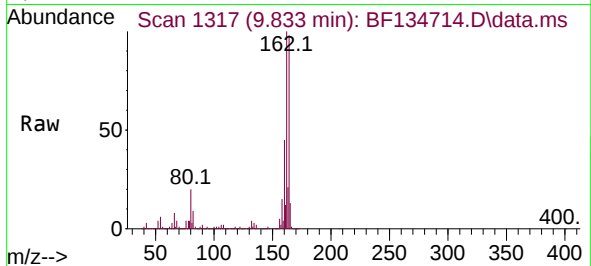
Tgt Ion:128 Resp: 80782
Ion Ratio Lower Upper
128 100
129 11.0 8.4 12.6
127 12.6 10.7 16.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

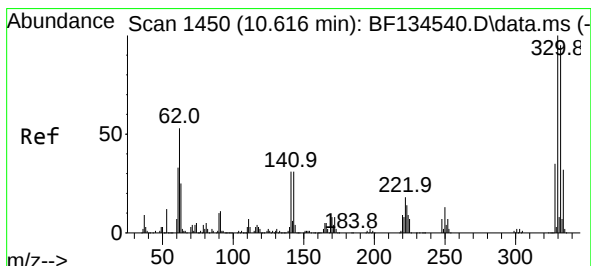
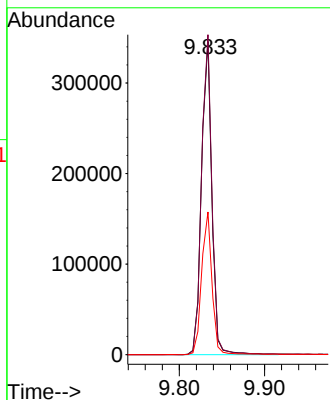
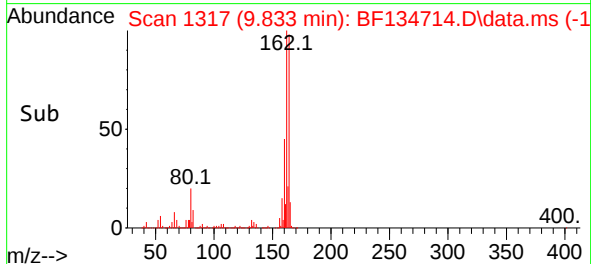
Instrument :
BNA_F
ClientSampleId :
WC-21



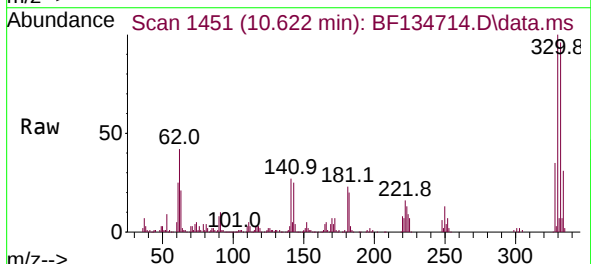
Tgt Ion:164 Resp: 292335
Ion Ratio Lower Upper
164 100
162 102.2 82.6 123.8
160 45.6 37.2 55.8

Manual Integrations
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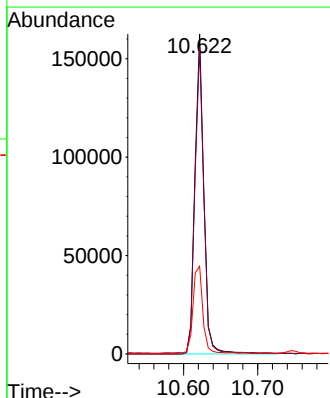
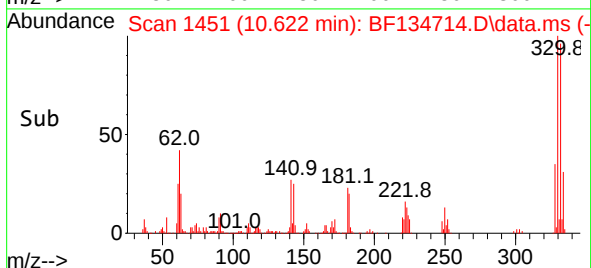
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023

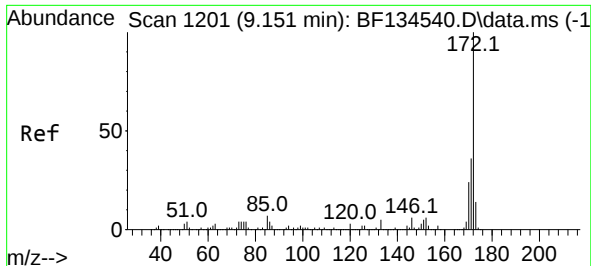


#42
2,4,6-Tribromophenol
Concen: 45.691 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55



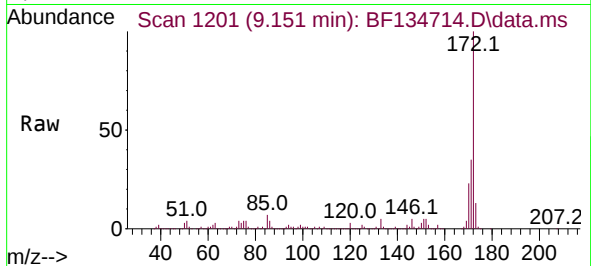
Tgt Ion:330 Resp: 136162
Ion Ratio Lower Upper
330 100
332 95.8 78.8 118.2
141 30.4 25.4 38.2





#45
2-Fluorobiphenyl
Concen: 38.057 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

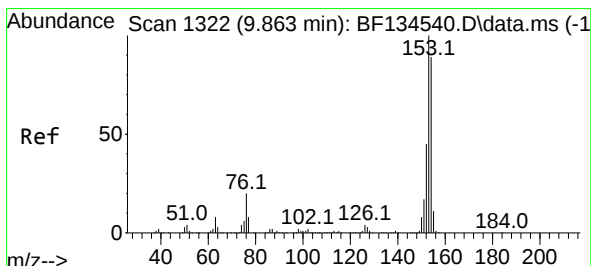
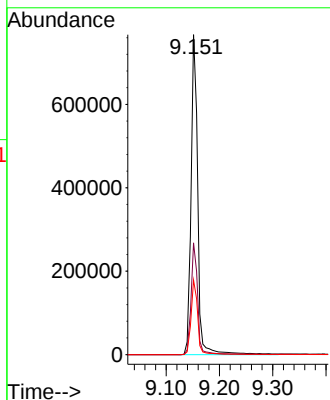
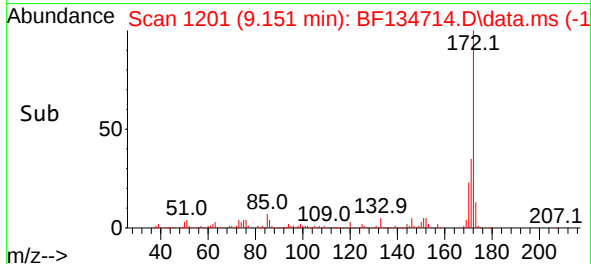
Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:172 Resp: 669124
Ion Ratio Lower Upper
172 100
171 34.9 28.8 43.2
170 23.3 18.7 28.1

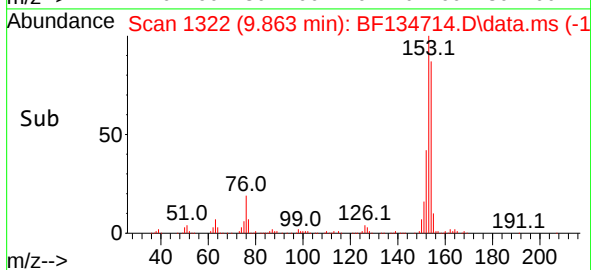
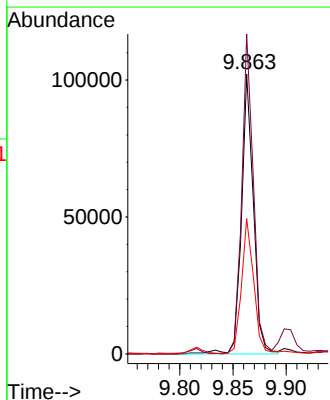
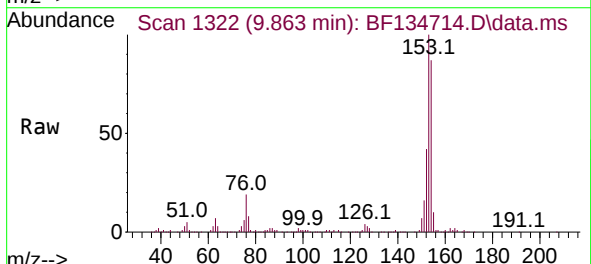
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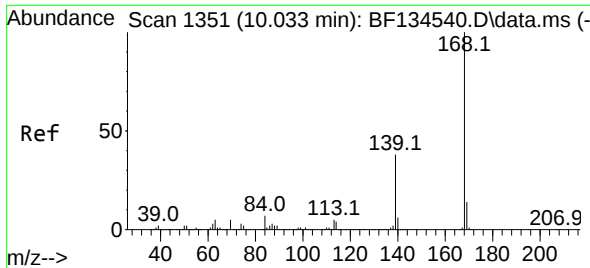
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#52
Acenaphthene
Concen: 4.539 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Tgt Ion:154 Resp: 78759
Ion Ratio Lower Upper
154 100
153 114.4 90.0 135.0
152 48.4 42.4 63.6





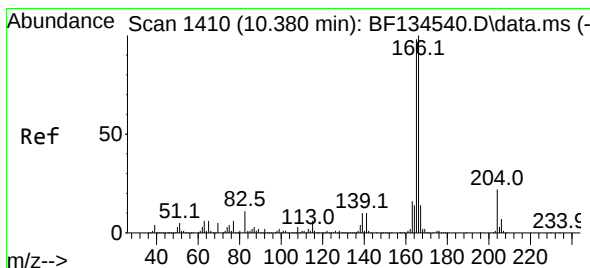
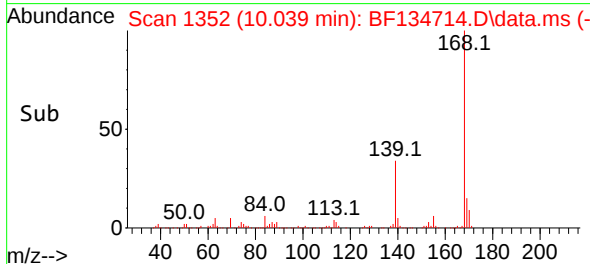
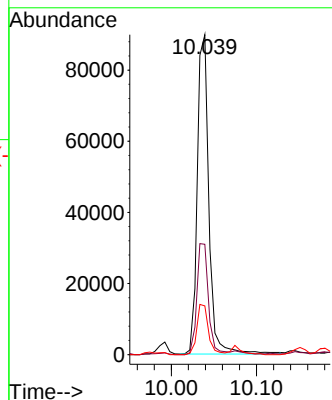
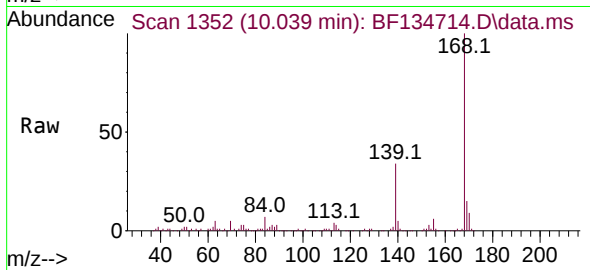
#55
Dibenzenofuran
Concen: 3.451 ng
RT: 10.039 min Scan# 1351
Delta R.T. -0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Instrument :
BNA_F
ClientSampleId :
WC-21

Tgt Ion:168 Resp: 85238
Ion Ratio Lower Upper
168 100
139 34.5 33.4 50.2
169 15.2 10.6 15.8

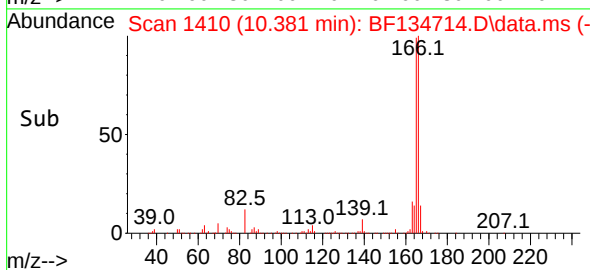
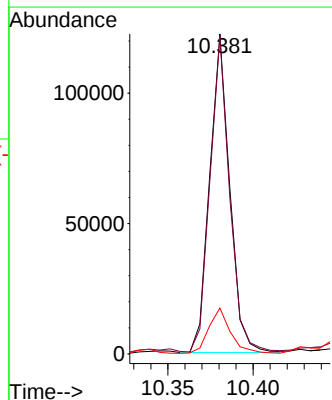
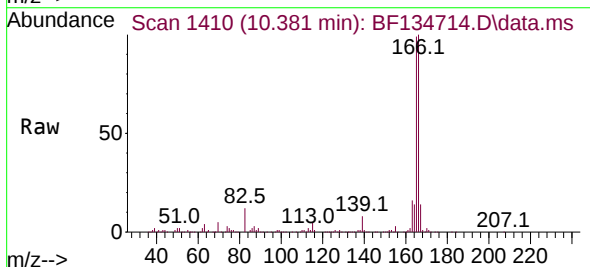
Manual Integrations
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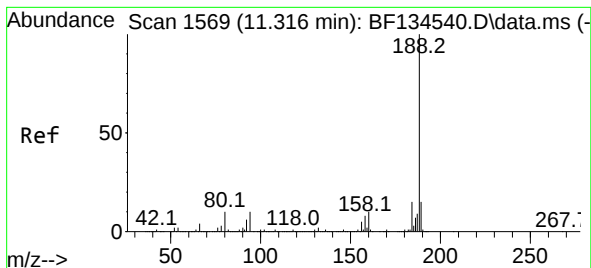
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#58
Fluorene
Concen: 5.552 ng
RT: 10.381 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Tgt Ion:166 Resp: 99893
Ion Ratio Lower Upper
166 100
165 99.4 74.5 111.7
167 14.3 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Instrument :

BNA_F

ClientSampleId :

WC-21

Tgt Ion:188 Resp: 487688

Ion Ratio Lower Upper

188 100

94 10.4 5.1 7.7

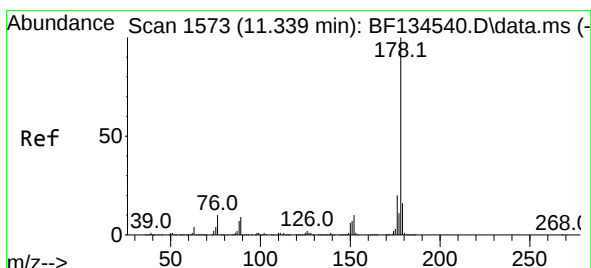
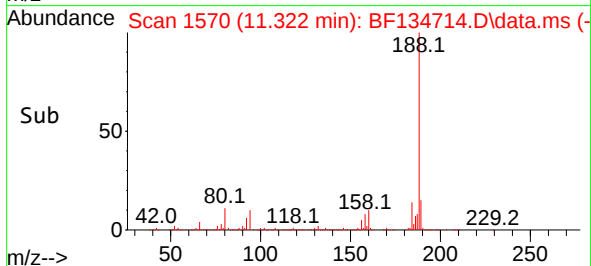
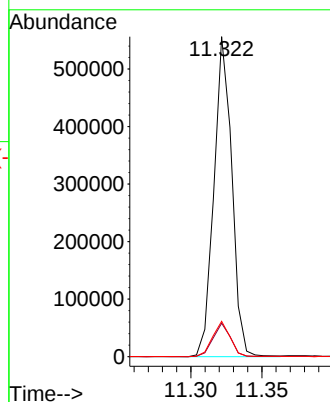
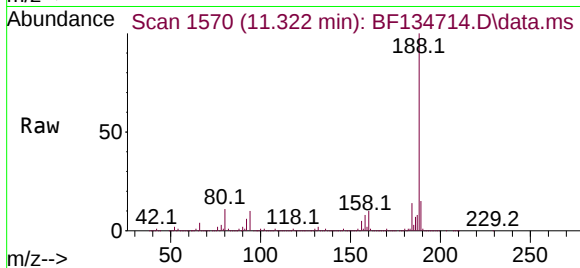
80 11.0 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/11/2023

Supervised By :mohammad ahmed 08/11/2023



#71

Phenanthrene

Concen: 42.618 ng

RT: 11.351 min Scan# 1575

Delta R.T. 0.000 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

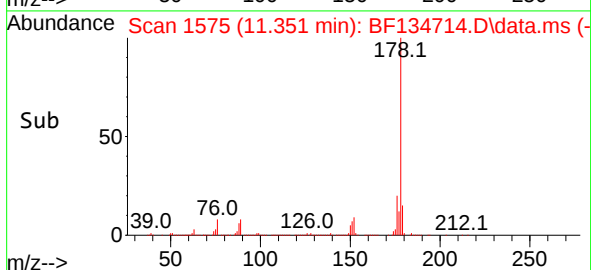
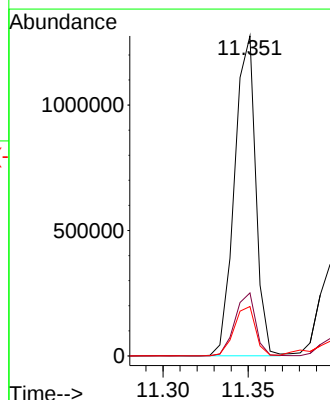
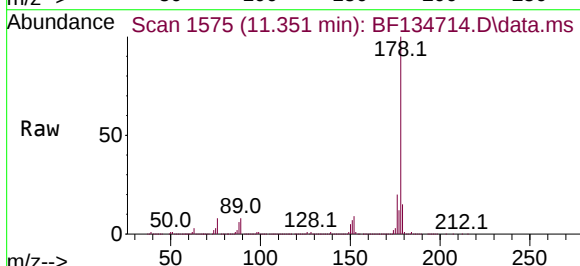
Tgt Ion:178 Resp: 1103981

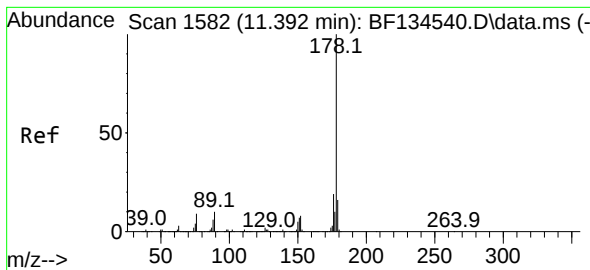
Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.6

179 15.4 12.7 19.1





#72

Anthracene

Concen: 10.991 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Instrument :

BNA_F

ClientSampleId :

WC-21

Tgt Ion:178 Resp: 290820

Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

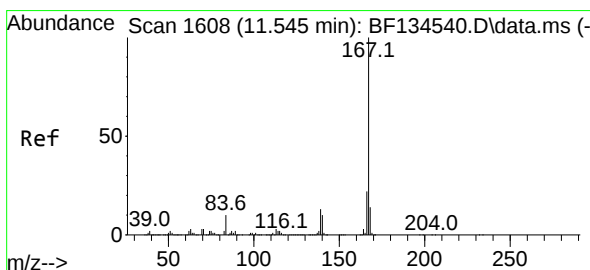
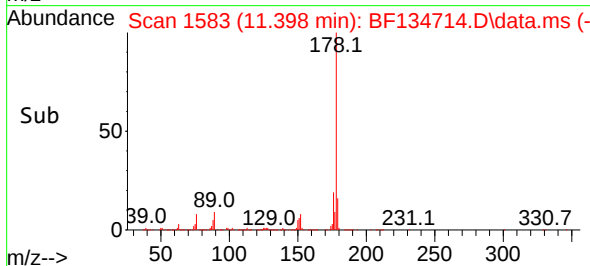
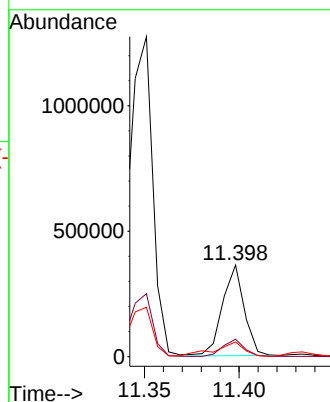
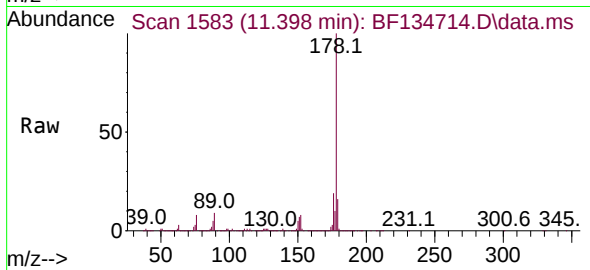
179 15.9 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/11/2023

Supervised By :mohammad ahmed 08/11/2023



#73

Carbazole

Concen: 5.455 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

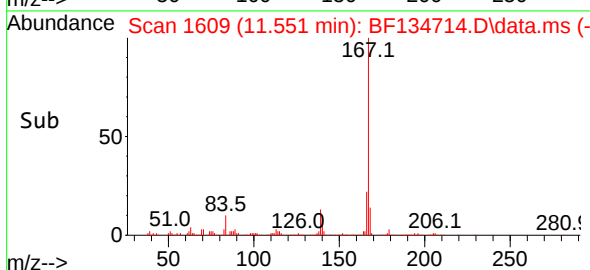
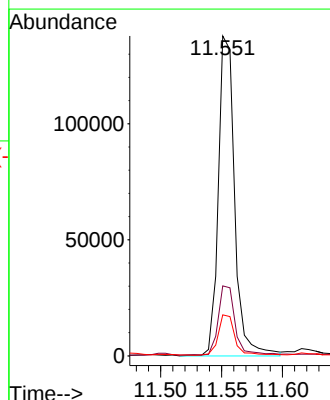
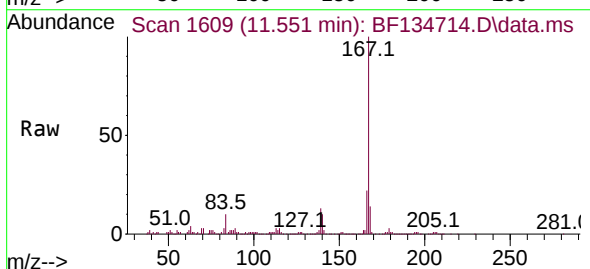
Tgt Ion:167 Resp: 128877

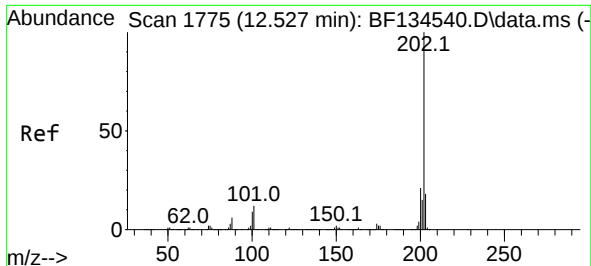
Ion Ratio Lower Upper

167 100

166 21.9 17.5 26.3

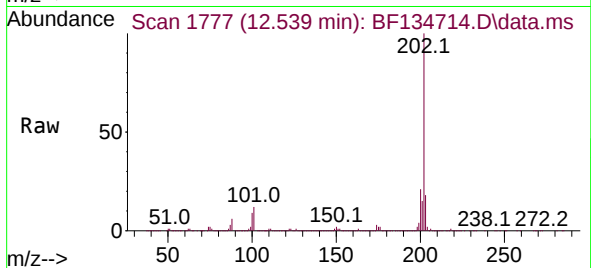
139 12.8 11.0 16.4





#75
Fluoranthene
Concen: 44.810 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

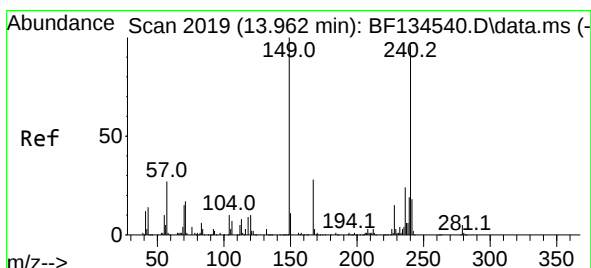
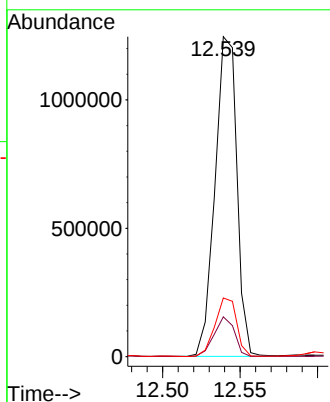
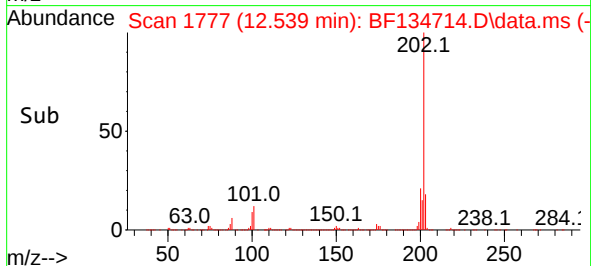
Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:202 Resp: 1226136
Ion Ratio Lower Upper
202 100
101 12.4 0.0 28.5
203 18.3 0.0 37.5

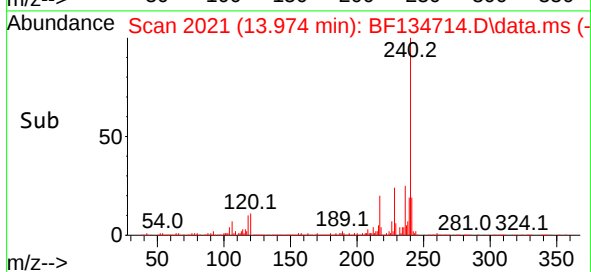
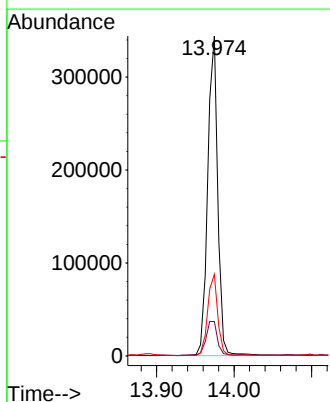
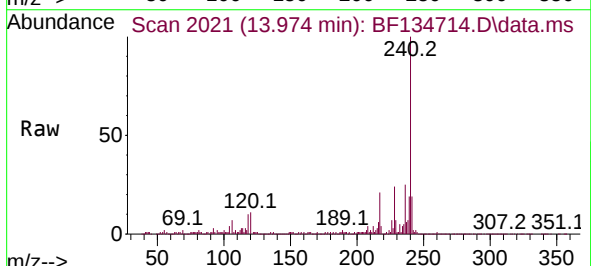
Manual Integrations
APPROVED

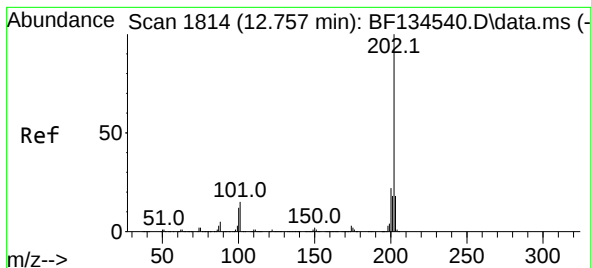
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Tgt Ion:240 Resp: 309050
Ion Ratio Lower Upper
240 100
120 10.8 6.6 10.0#
236 25.5 20.2 30.2





#78

Pyrene

Concen: 38.469 ng

RT: 12.769 min Scan# 1814

Delta R.T. 0.000 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Instrument :

BNA_F

ClientSampleId :

WC-21

Tgt Ion:202 Resp: 1028749

Ion Ratio Lower Upper

202 100

200 20.7 15.8 23.8

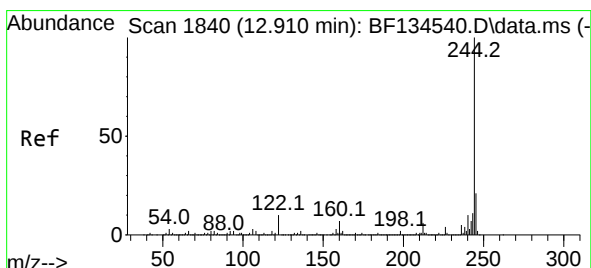
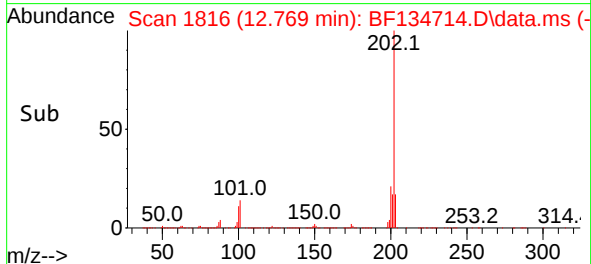
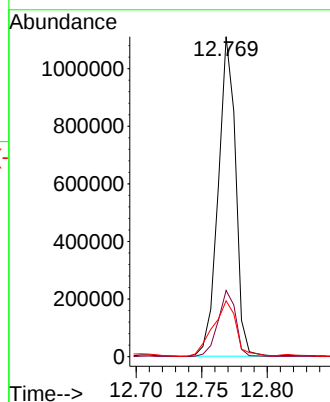
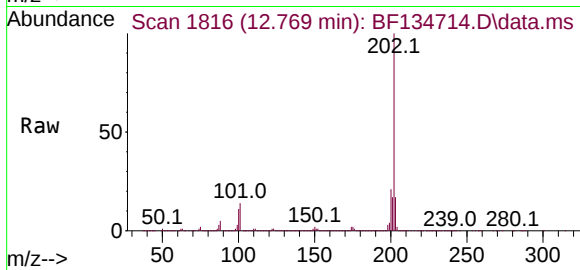
203 17.4 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/11/2023

Supervised By :mohammad ahmed 08/11/2023



#79

Terphenyl-d14

Concen: 35.447 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

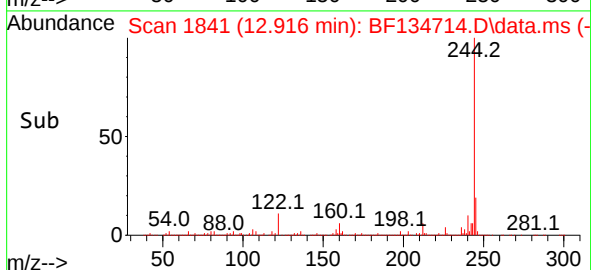
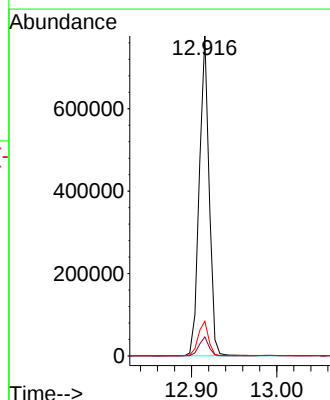
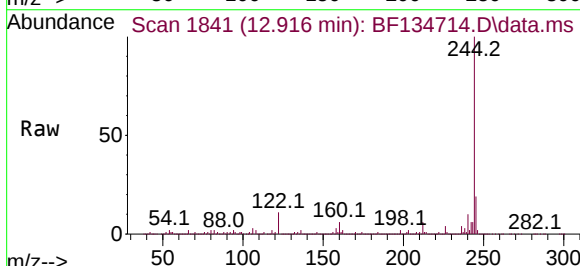
Tgt Ion:244 Resp: 621421

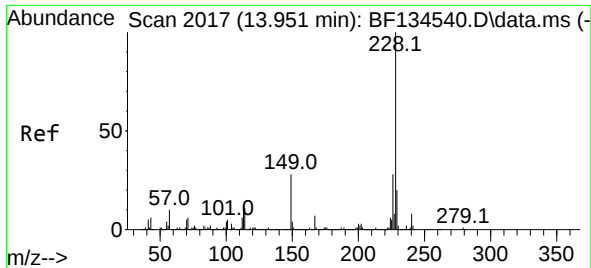
Ion Ratio Lower Upper

244 100

212 5.9 5.6 8.4

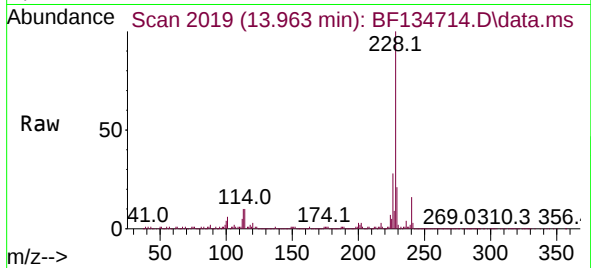
122 10.8 8.0 12.0





#81
Benzo(a)anthracene
Concen: 24.880 ng
RT: 13.963 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

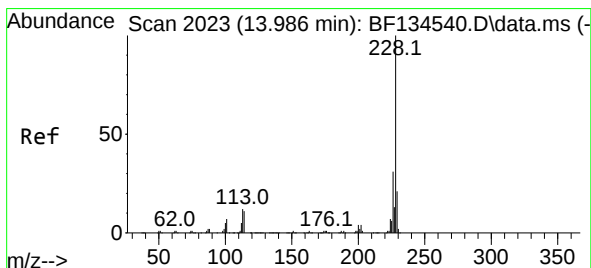
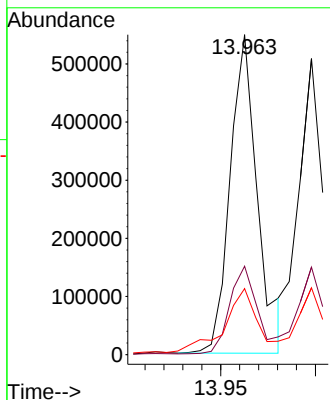
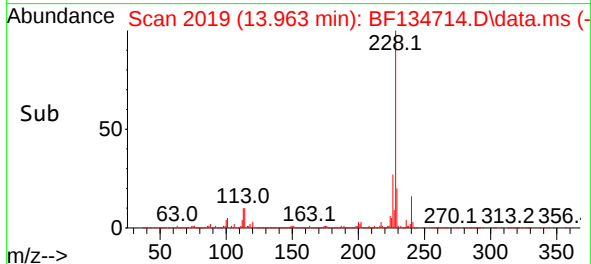
Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:228 Resp: 549804
Ion Ratio Lower Upper
228 100
226 27.6 22.3 33.5
229 20.6 15.8 23.6

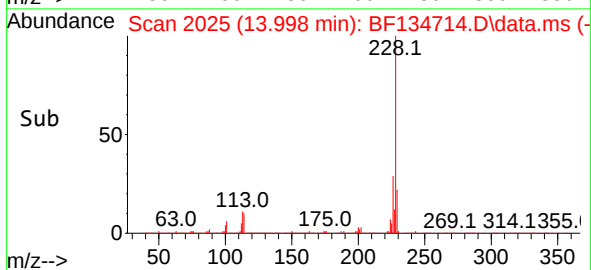
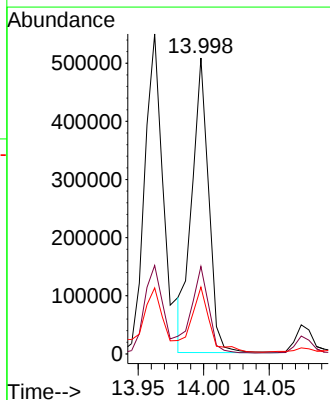
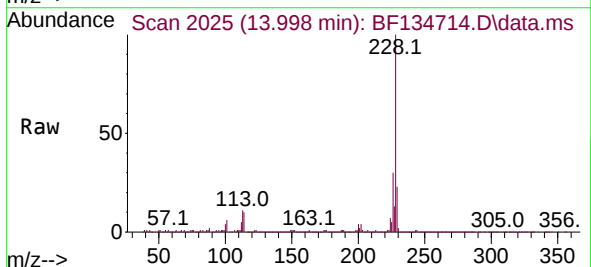
Manual Integrations
APPROVED

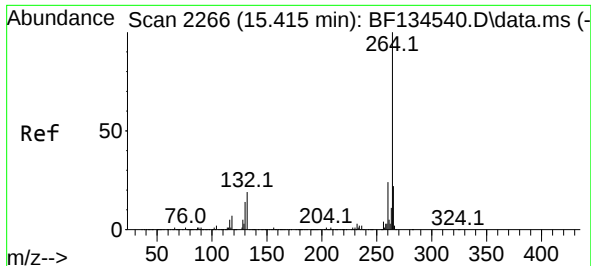
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#83
Chrysene
Concen: 20.944 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

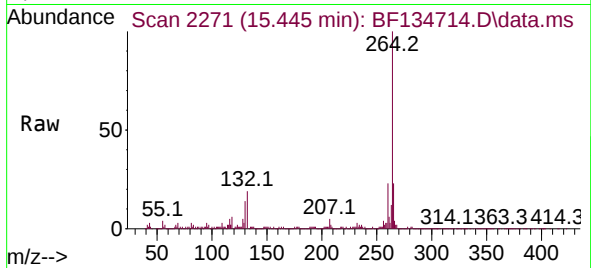
Tgt Ion:228 Resp: 450911
Ion Ratio Lower Upper
228 100
226 29.6 24.5 36.7
229 22.6 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

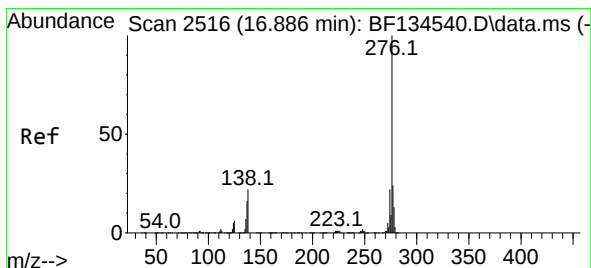
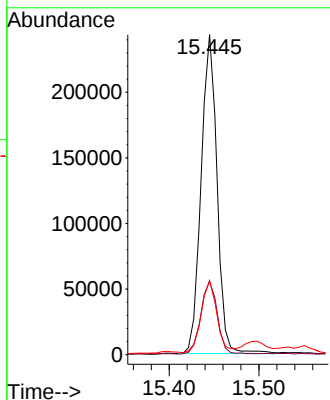
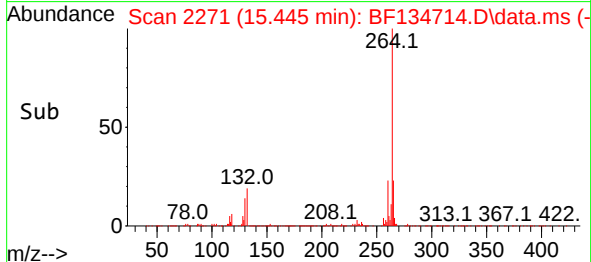
Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:264 Resp: 299978
Ion Ratio Lower Upper
264 100
260 22.9 18.4 27.6
265 23.2 15.8 23.8

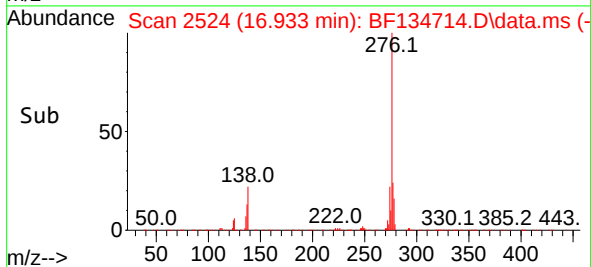
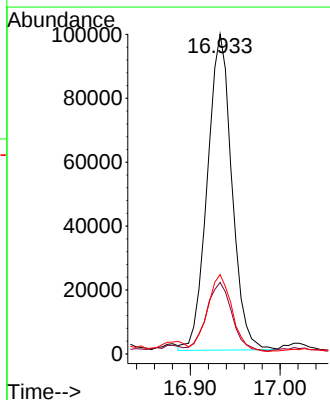
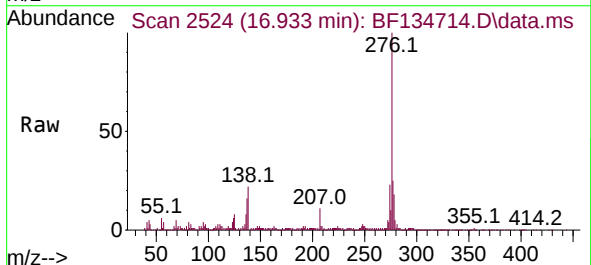
Manual Integrations
APPROVED

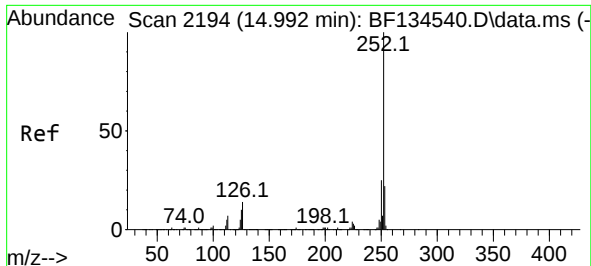
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 10.659 ng
RT: 16.933 min Scan# 2524
Delta R.T. 0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

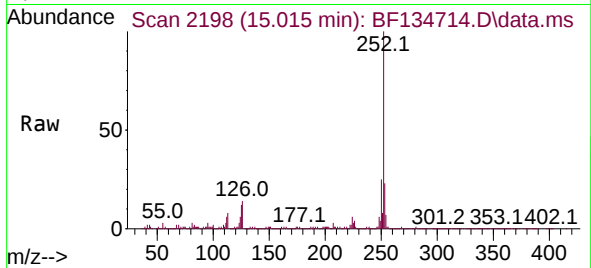
Tgt Ion:276 Resp: 188058
Ion Ratio Lower Upper
276 100
138 22.7 14.2 21.4#
277 24.5 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 29.261 ng m
RT: 15.015 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

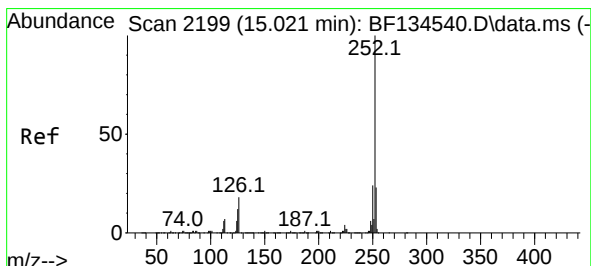
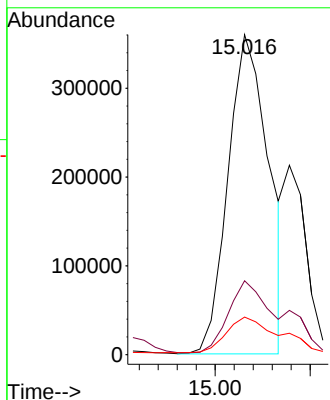
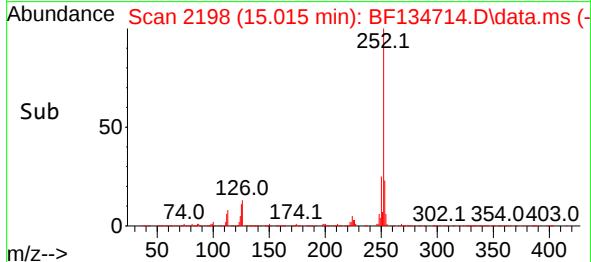
Instrument :
BNA_F
ClientSampleId :
WC-21



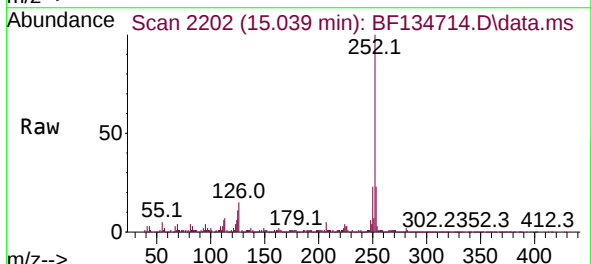
Tgt Ion:252 Resp: 535342
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 11.7 6.0 9.0

Manual Integrations
APPROVED

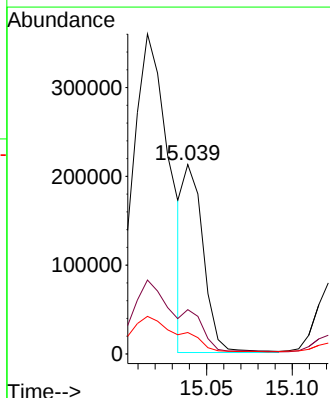
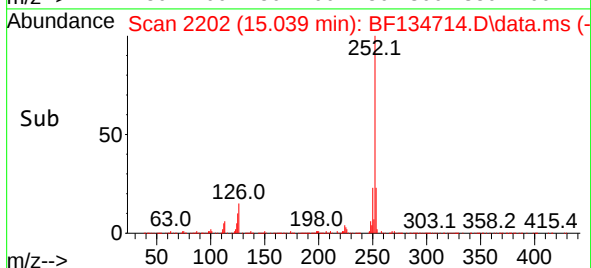
Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023

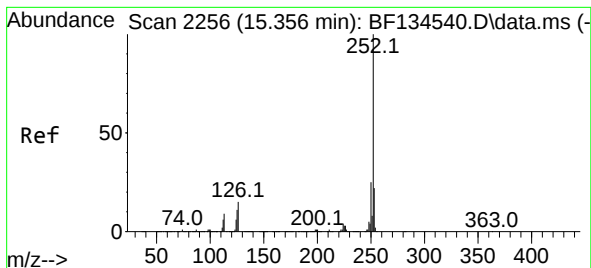


#89
Benzo(k)fluoranthene
Concen: 9.380 ng m
RT: 15.039 min Scan# 2202
Delta R.T. 0.000 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55



Tgt Ion:252 Resp: 170953
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 11.3 6.3 9.5





#90

Benzo(a)pyrene

Concen: 20.787 ng

RT: 15.380 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

Instrument :

BNA_F

ClientSampleId :

WC-21

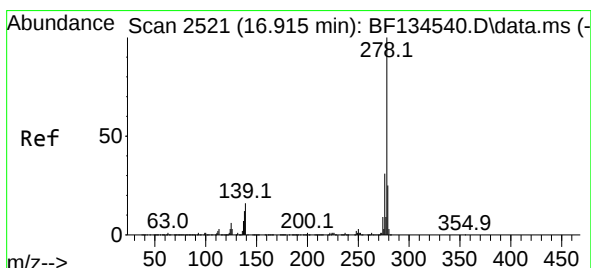
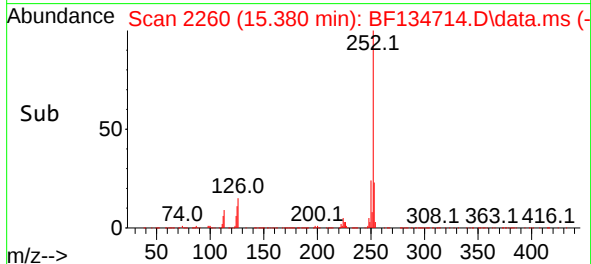
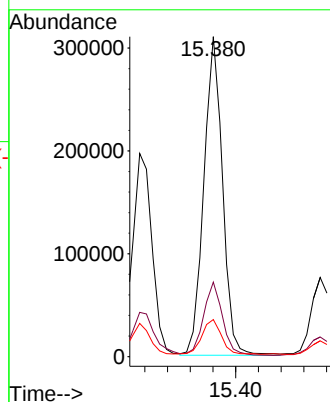
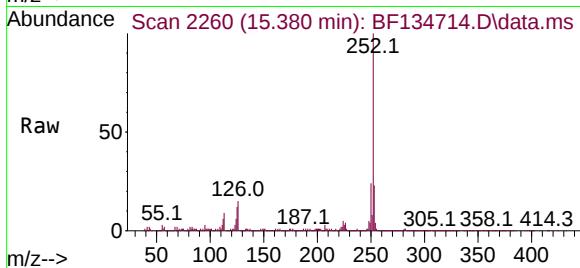
Tgt Ion:	252	Resp:	35459
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.4
125	11.6	6.2	9.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/11/2023

Supervised By :mohammad ahmed 08/11/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.480 ng

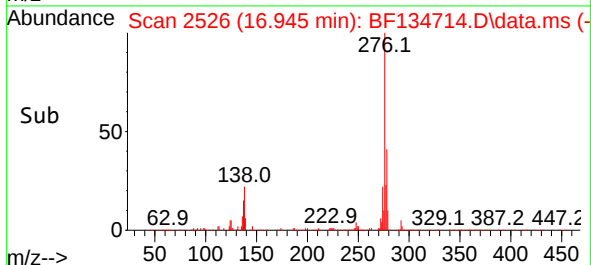
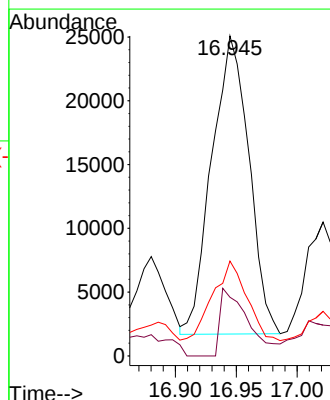
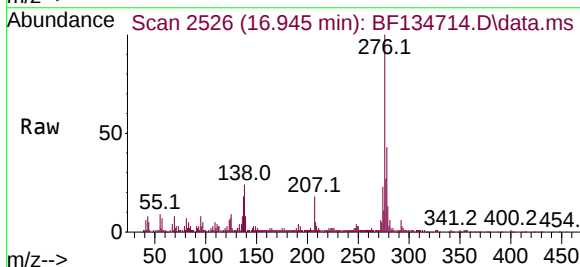
RT: 16.945 min Scan# 2526

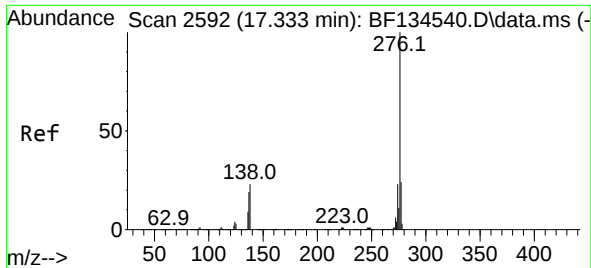
Delta R.T. -0.006 min

Lab File: BF134714.D

Acq: 10 Aug 2023 17:55

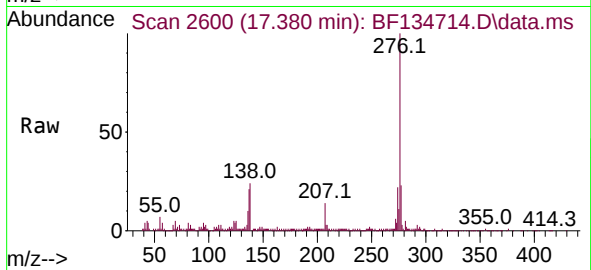
Tgt Ion:	278	Resp:	49614
Ion Ratio	Lower	Upper	
278	100		
139	18.3	10.0	15.0#
279	29.6	19.7	29.5#





#92
Benzo(g,h,i)perylene
Concen: 11.264 ng
RT: 17.380 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF134714.D
Acq: 10 Aug 2023 17:55

Instrument :
BNA_F
ClientSampleId :
WC-21



Tgt Ion:276 Resp: 16382
Ion Ratio Lower Upper
276 100
277 22.9 19.0 28.6
138 23.6 12.2 18.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/11/2023
Supervised By :mohammad ahmed 08/11/2023

