

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
 Data File : BF135521.D
 Acq On : 29 Sep 2023 17:46
 Operator : CG\JU
 Sample : 04637-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023

Quant Time: Sep 30 00:23:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.745	152	141838	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	462319	20.000	ng	# 0.00
39) Acenaphthene-d10	9.780	164	190034	20.000	ng	0.00
64) Phenanthrene-d10	11.280	188	331155	20.000	ng	# 0.00
76) Chrysene-d12	13.962	240	132122	20.000	ng	0.03
86) Perylene-d12	15.427	264	194773	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	639600	73.342	ng	0.00
7) Phenol-d6	6.398	99	741417	66.861	ng	0.00
23) Nitrobenzene-d5	7.310	82	437135	51.370	ng	-0.01
42) 2,4,6-Tribromophenol	10.574	330	110551	58.540	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	642534	51.012	ng	-0.01
79) Terphenyl-d14	12.874	244	574478	67.404	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.045	128	87587	3.899	ng	99
49) Acenaphthylene	9.639	152	326151	18.521	ng	100
52) Acenaphthene	9.810	154	100260	9.638	ng	94
55) Dibenzofuran	9.986	168	92688	5.839	ng	98
58) Fluorene	10.333	166	169392	13.880	ng	98
71) Phenanthrene	11.316	178	3273907	209.032	ng	98
72) Anthracene	11.357	178	632517	39.289	ng	99
73) Carbazole	11.516	167	738040	50.360	ng	99
75) Fluoranthene	12.545	202	7861367	481.705	ng	97
78) Pyrene	12.774	202	6354255	505.147	ng	98
81) Benzo(a)anthracene	13.951	228	3701531	433.868	ng	93
83) Chrysene	13.998	228	3305059	389.644	ng	95
84) Bis(2-ethylhexyl)phtha...	13.921	149	262092	57.669	ng	99
87) Indeno(1,2,3-cd)pyrene	16.956	276	2980968	233.424	ng	96
88) Benzo(b)fluoranthene	15.021	252	4863573m	461.275	ng	
89) Benzo(k)fluoranthene	15.045	252	1122463m	107.770	ng	
90) Benzo(a)pyrene	15.386	252	2948596	293.250	ng	96
91) Dibenzo(a,h)anthracene	16.939	278	578702m	55.383	ng	
92) Benzo(g,h,i)perylene	17.415	276	2932737	268.745	ng	95

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

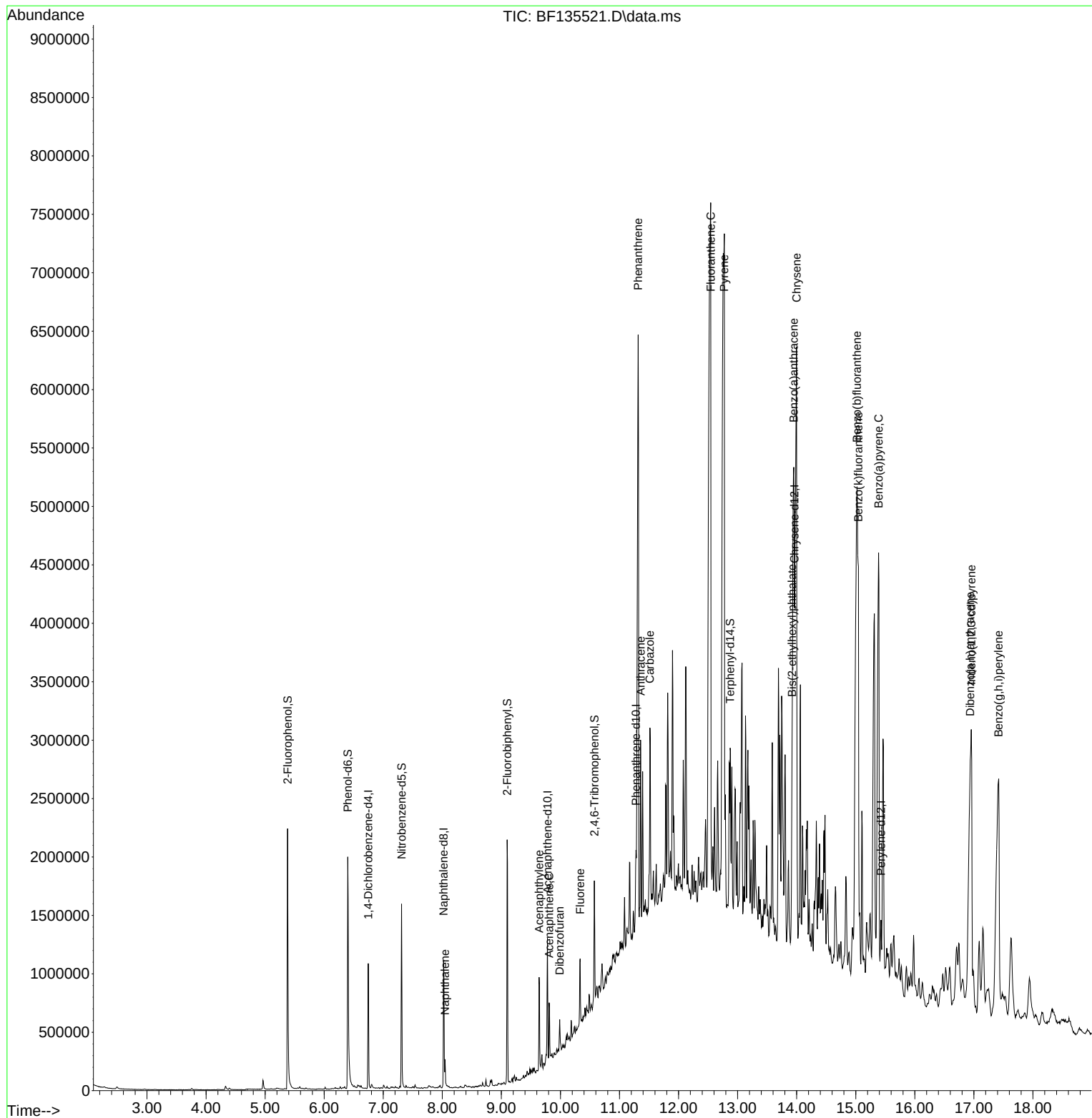
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
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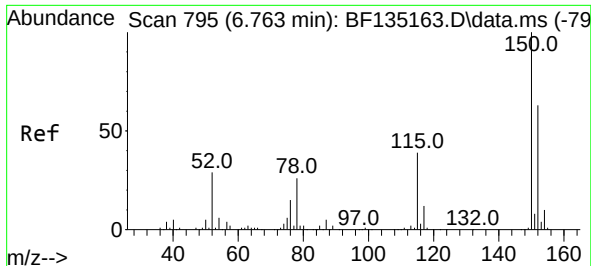
Instrument :
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ClientSampleId :
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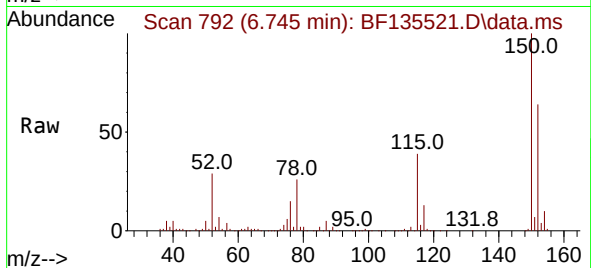
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.745 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

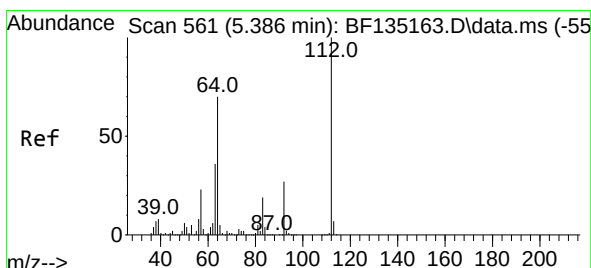
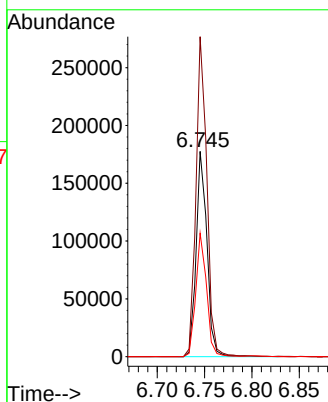
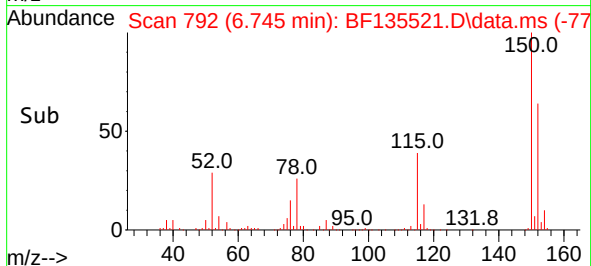
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 141838
Ion Ratio Lower Upper
152 100
150 155.9 127.8 191.6
115 60.1 49.8 74.8

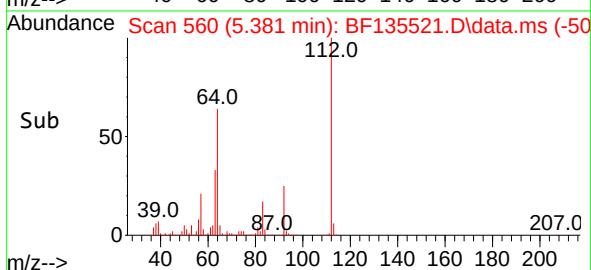
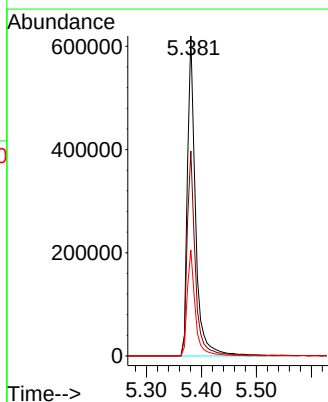
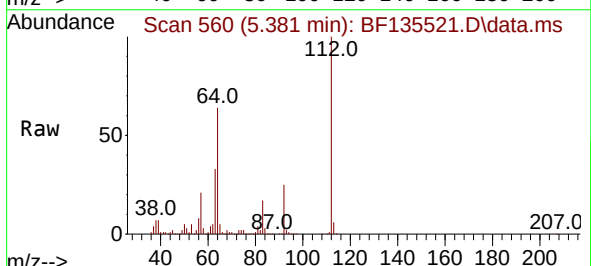
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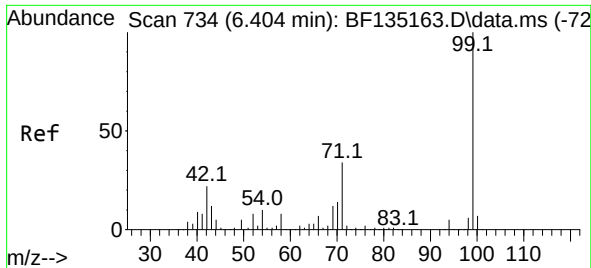
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#5
2-Fluorophenol
Concen: 73.342 ng
RT: 5.381 min Scan# 560
Delta R.T. -0.000 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Tgt Ion:112 Resp: 639600
Ion Ratio Lower Upper
112 100
64 64.1 55.9 83.9
63 33.1 29.0 43.6





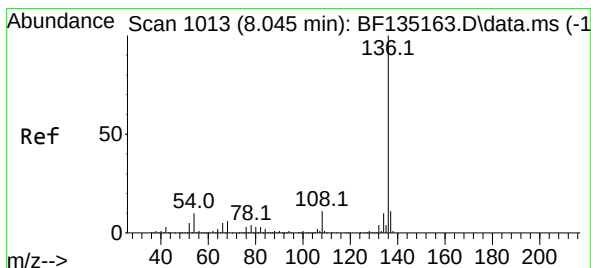
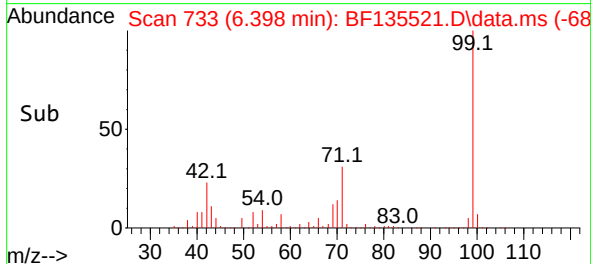
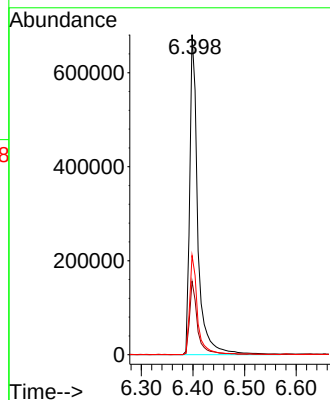
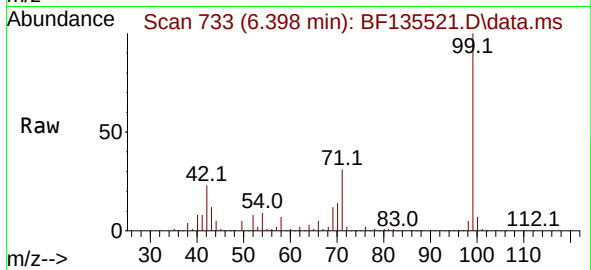
#7
Phenol-d6
Concen: 66.861 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion: 99 Resp: 74141
Ion Ratio Lower Upper
99 100
42 22.9 17.9 26.9
71 31.0 27.0 40.6

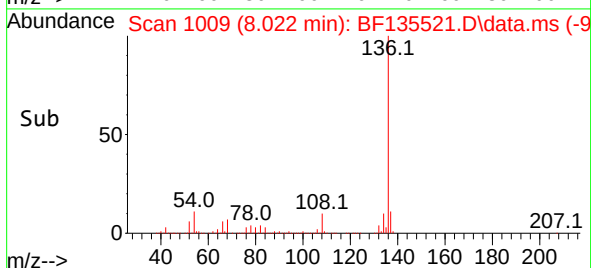
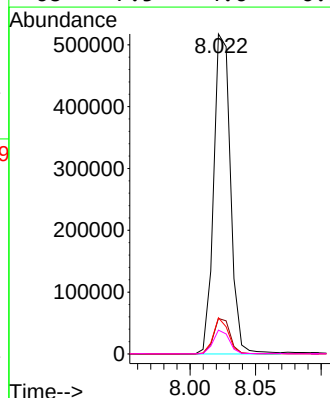
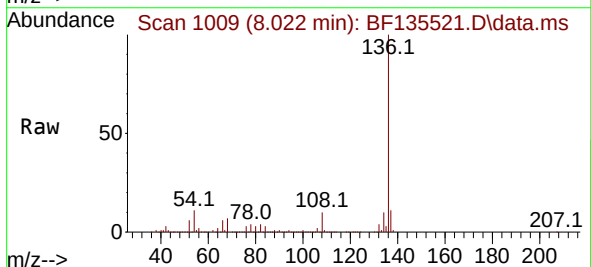
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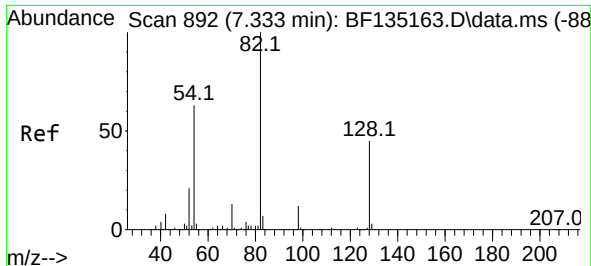
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Tgt Ion:136 Resp: 462319
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 11.3 7.7 11.5
68 7.5 4.6 6.8#





#23

Nitrobenzene-d5

Concen: 51.370 ng

RT: 7.310 min Scan# 892

Delta R.T. -0.012 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Instrument :

BNA_F

ClientSampleId :

WC-1

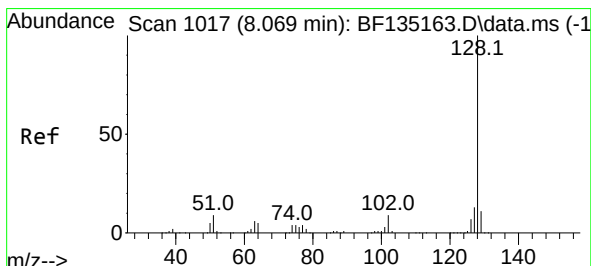
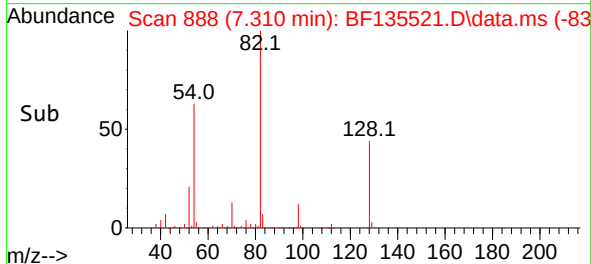
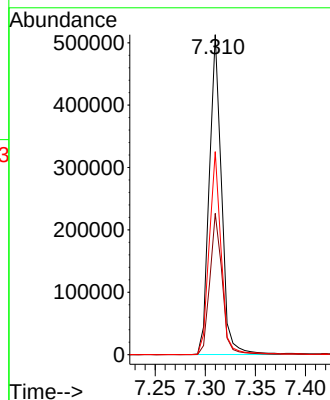
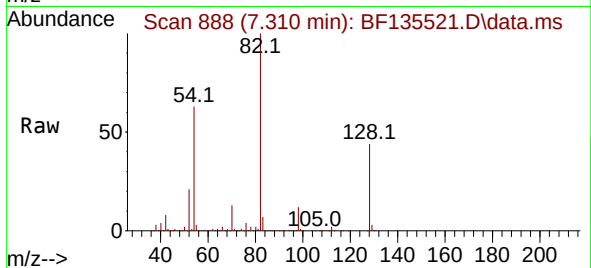
Tgt Ion:	82	Resp:	43713
Ion Ratio	Lower	Upper	
82	100		
128	44.2	35.8	53.6
54	63.4	50.6	76.0

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Supervised By :mohammad ahmed 10/03/2023



#31

Naphthalene

Concen: 3.899 ng

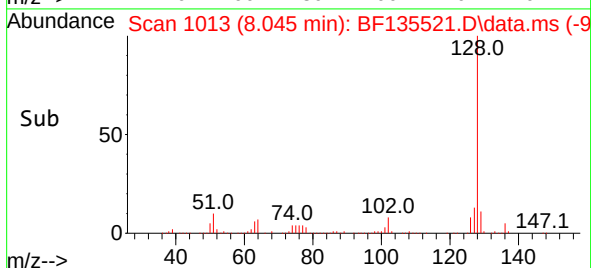
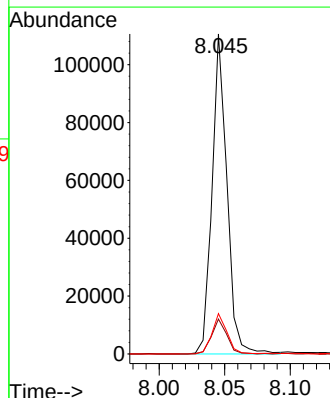
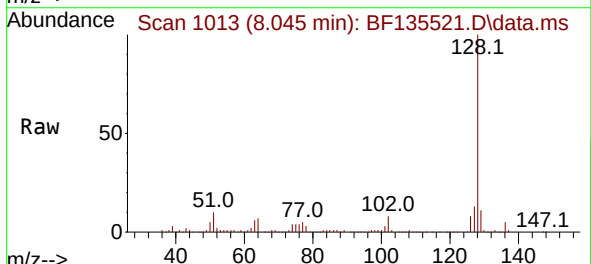
RT: 8.045 min Scan# 1013

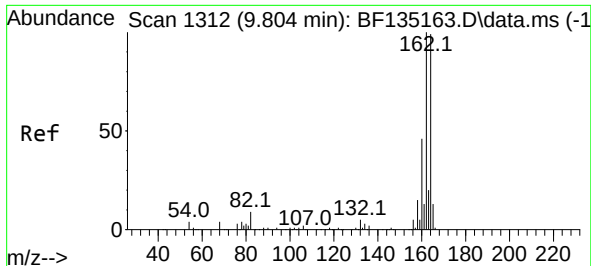
Delta R.T. -0.006 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

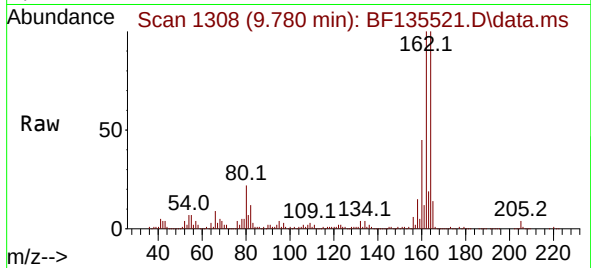
Tgt Ion:	128	Resp:	87587
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.7	13.1
127	12.6	10.7	16.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.780 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

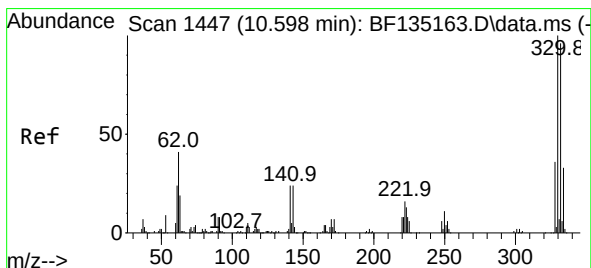
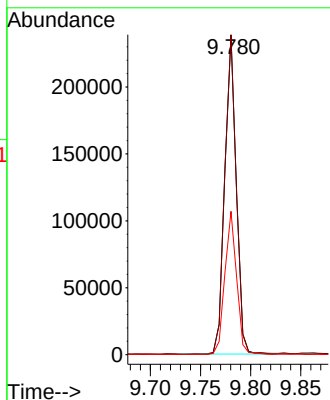
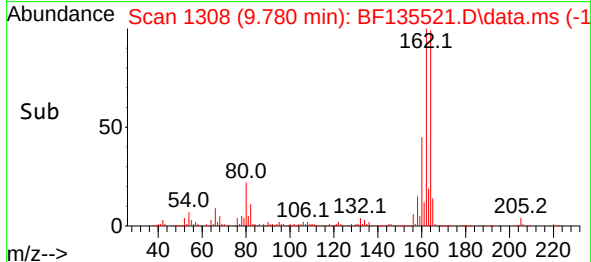
Instrument :
BNA_F
ClientSampleId :
WC-1



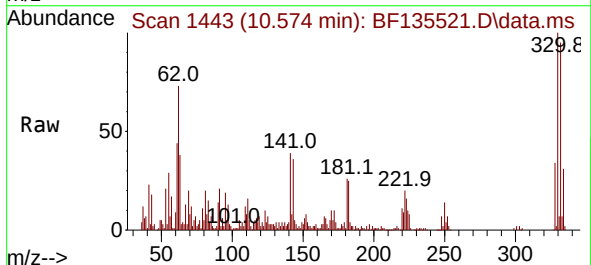
Tgt Ion:164 Resp: 190034
Ion Ratio Lower Upper
164 100
162 100.4 81.0 121.4
160 45.0 37.0 55.4

Manual Integrations
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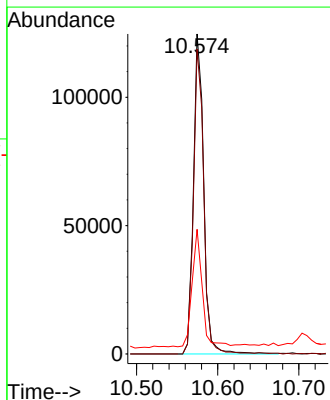
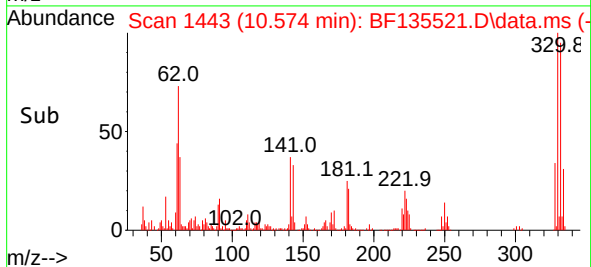
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023

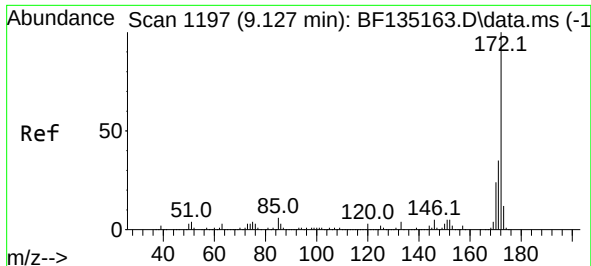


#42
2,4,6-Tribromophenol
Concen: 58.540 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46



Tgt Ion:330 Resp: 110551
Ion Ratio Lower Upper
330 100
332 94.9 77.3 115.9
141 36.1 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 51.012 ng

RT: 9.098 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:172 Resp: 642534

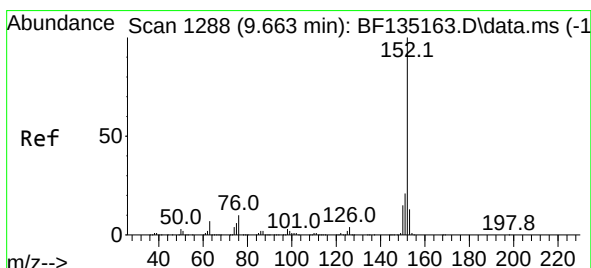
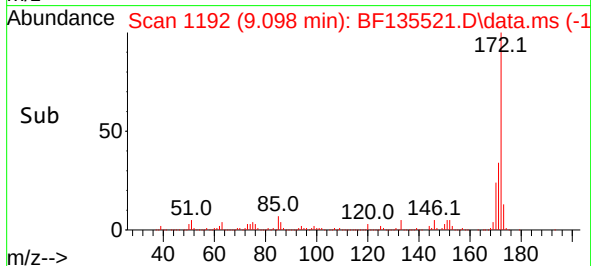
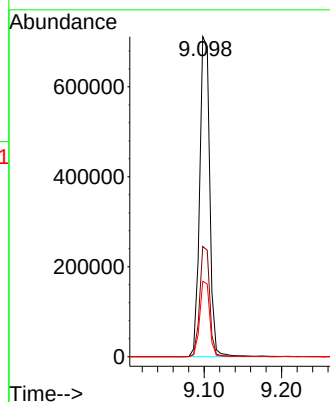
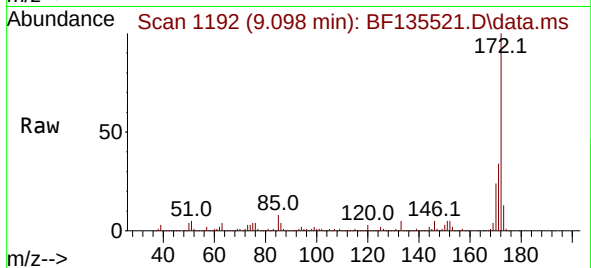
Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.4	42.6
170	23.5	19.0	28.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#49

Acenaphthylene

Concen: 18.521 ng

RT: 9.639 min Scan# 1284

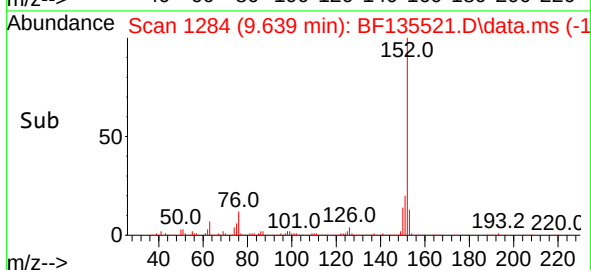
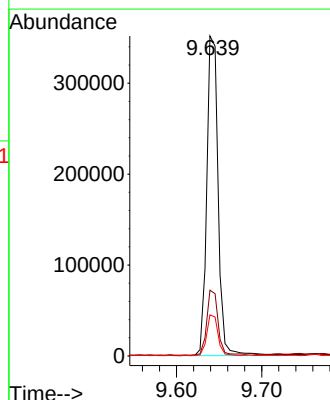
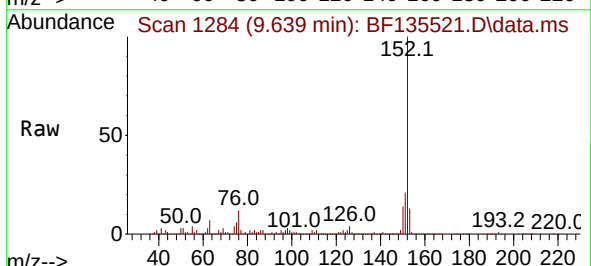
Delta R.T. -0.012 min

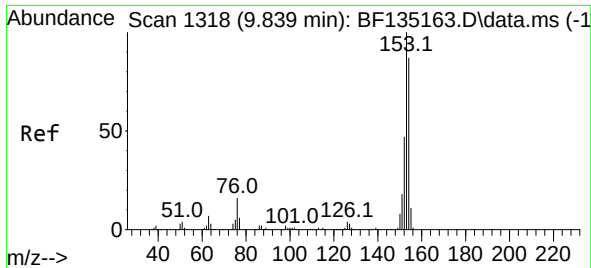
Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Tgt Ion:152 Resp: 326151

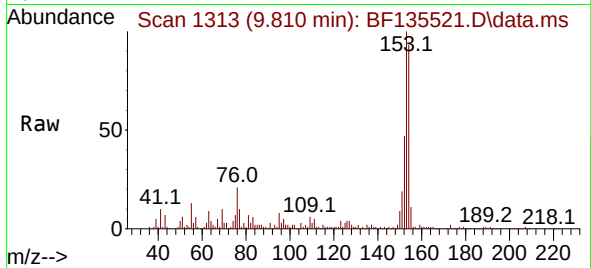
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	12.9	10.4	15.6





#52
Acenaphthene
Concen: 9.638 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

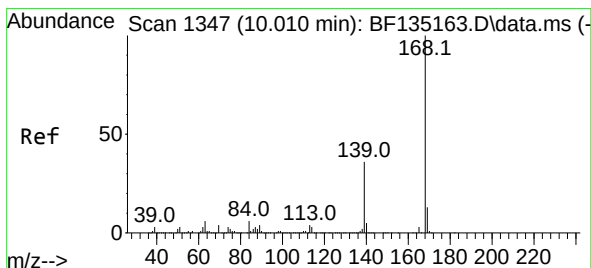
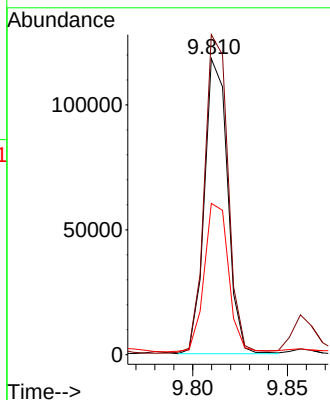
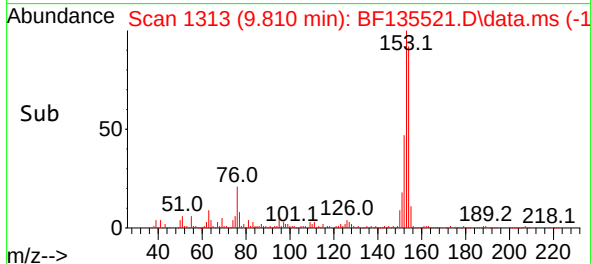
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:154 Resp: 100260
Ion Ratio Lower Upper
154 100
153 108.1 92.1 138.1
152 51.1 43.1 64.7

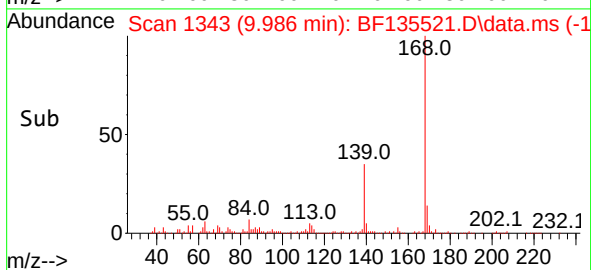
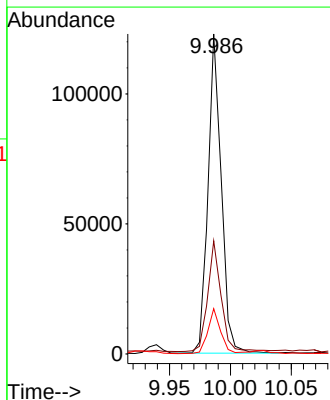
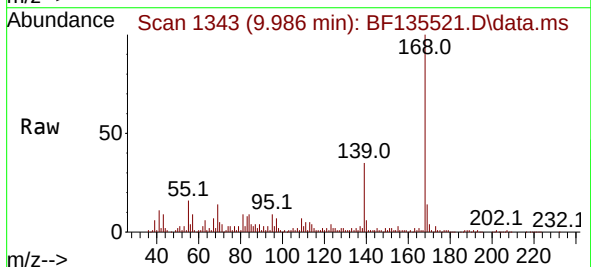
Manual Integrations
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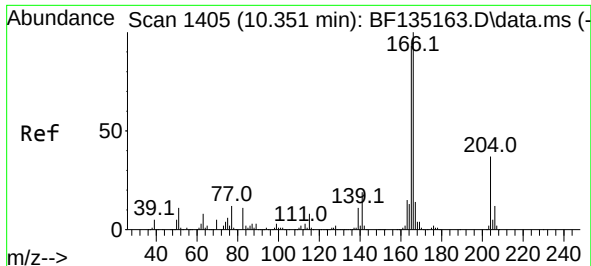
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#55
Dibenzofuran
Concen: 5.839 ng
RT: 9.986 min Scan# 1343
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

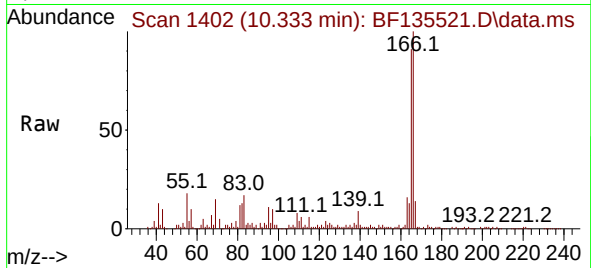
Tgt Ion:168 Resp: 92688
Ion Ratio Lower Upper
168 100
139 35.3 29.0 43.6
169 14.1 10.4 15.6





#58
Fluorene
Concen: 13.880 ng
RT: 10.333 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

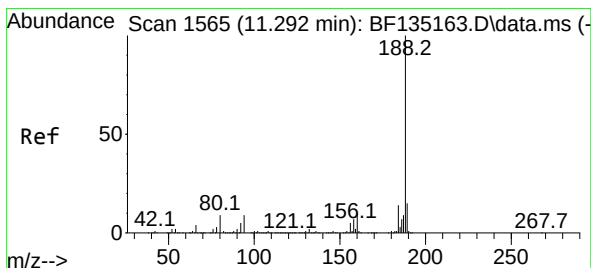
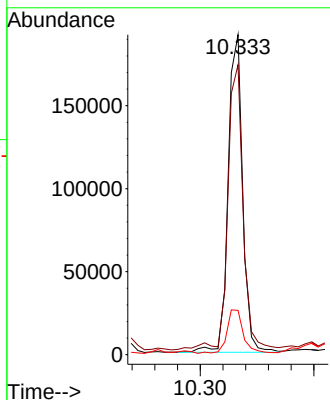
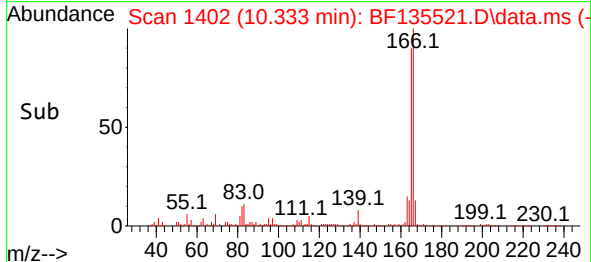
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:166 Resp: 169392
Ion Ratio Lower Upper
166 100
165 90.6 74.3 111.5
167 13.8 10.9 16.3

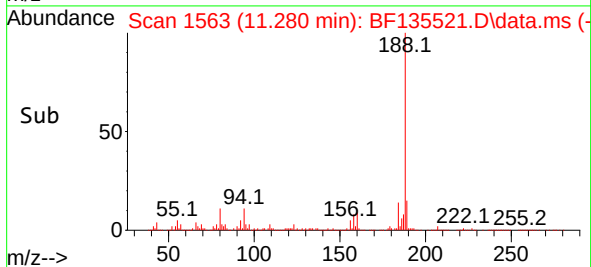
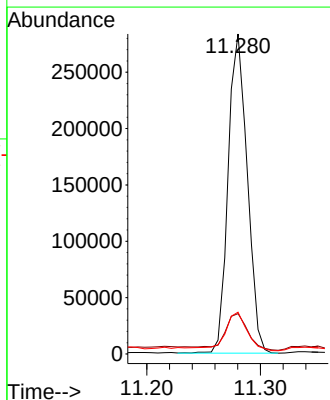
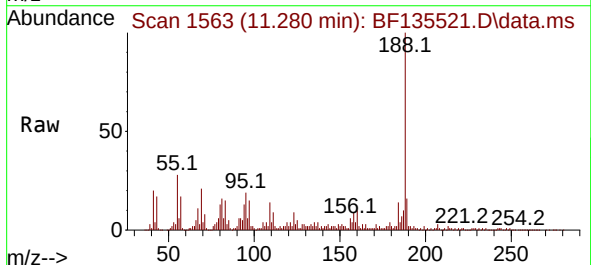
Manual Integrations
APPROVED

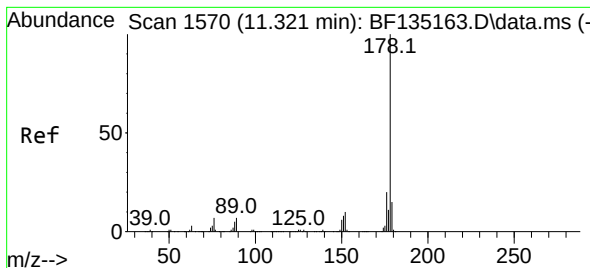
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.280 min Scan# 1563
Delta R.T. 0.006 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Tgt Ion:188 Resp: 331155
Ion Ratio Lower Upper
188 100
94 12.6 7.0 10.6#
80 13.1 7.5 11.3#





#71

Phenanthrene

Concen: 209.032 ng

RT: 11.316 min Scan# 1569

Delta R.T. 0.012 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:178 Resp: 327390

Ion Ratio Lower Upper

178 100

176 20.5 15.6 23.4

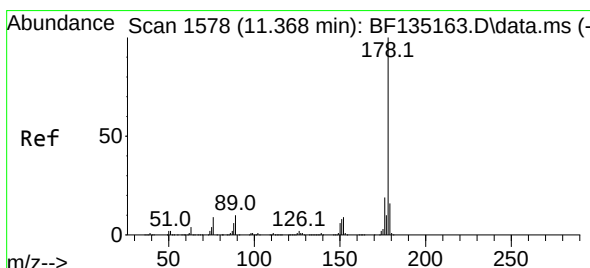
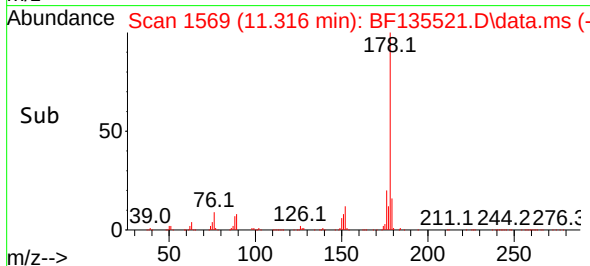
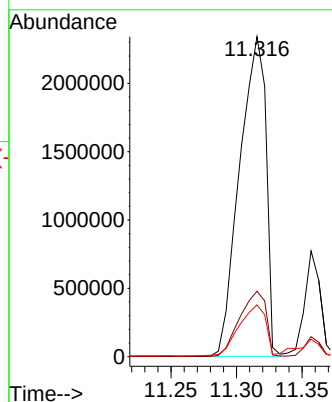
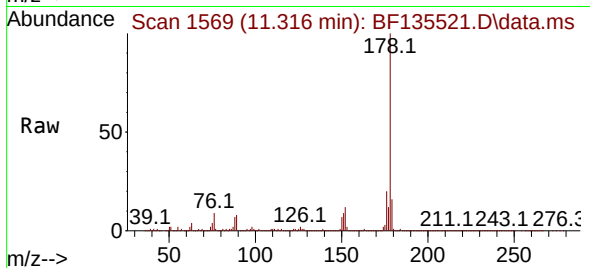
179 16.2 12.0 18.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#72

Anthracene

Concen: 39.289 ng

RT: 11.357 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

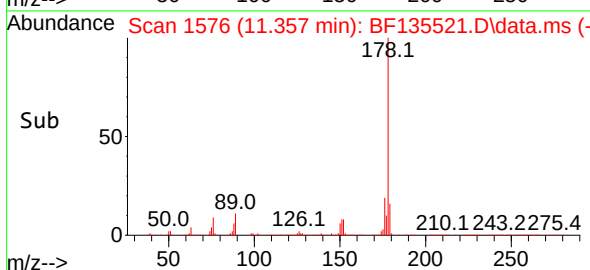
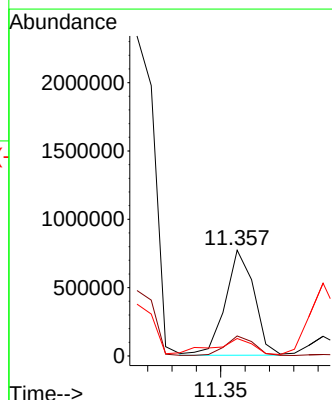
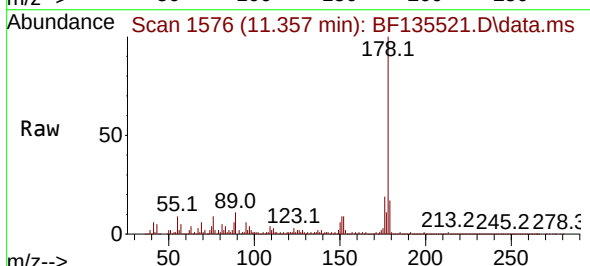
Tgt Ion:178 Resp: 632517

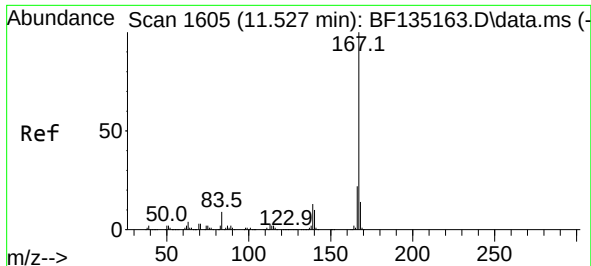
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

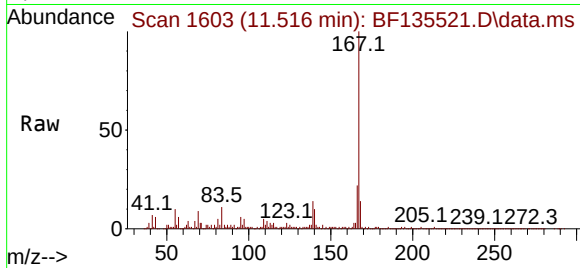
179 16.6 12.6 19.0





#73
 Carbazole
 Concen: 50.360 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. -0.000 min
 Lab File: BF135521.D
 Acq: 29 Sep 2023 17:46

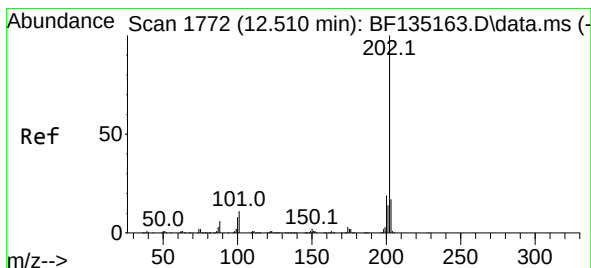
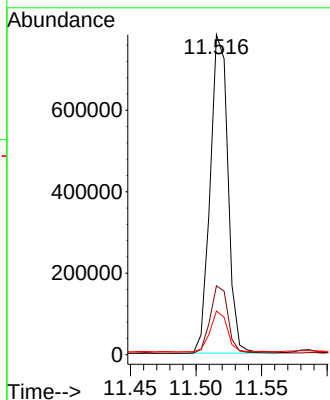
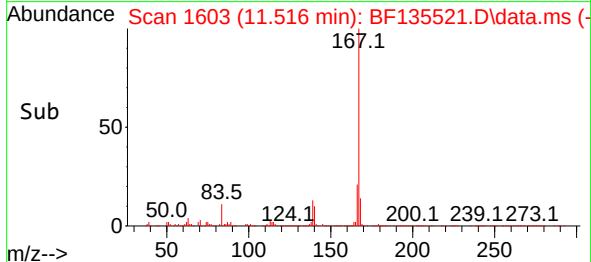
Instrument :
 BNA_F
 ClientSampleId :
 WC-1



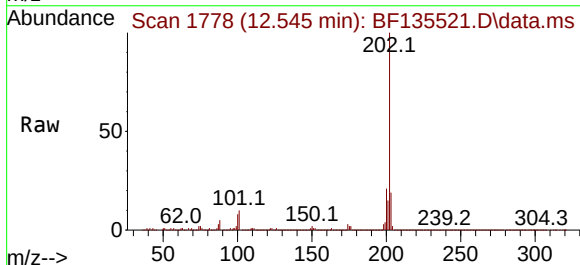
Tgt Ion:167 Resp: 738040
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.0
 139 13.7 10.6 15.8

Manual Integrations
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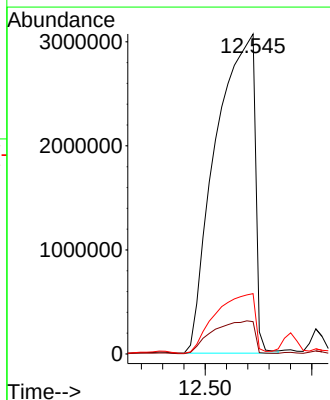
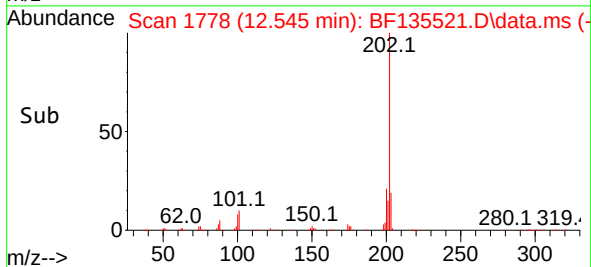
Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023

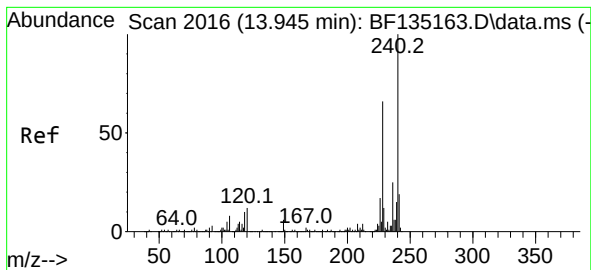


#75
 Fluoranthene
 Concen: 481.705 ng
 RT: 12.545 min Scan# 1778
 Delta R.T. 0.047 min
 Lab File: BF135521.D
 Acq: 29 Sep 2023 17:46



Tgt Ion:202 Resp: 7861367
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 31.3
 203 18.9 0.0 37.4





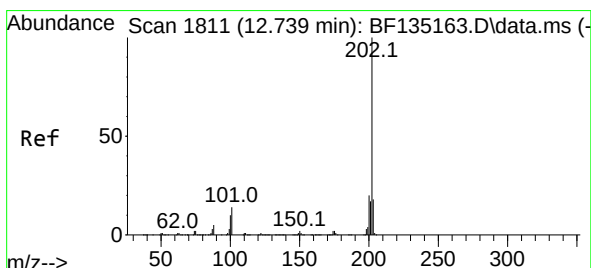
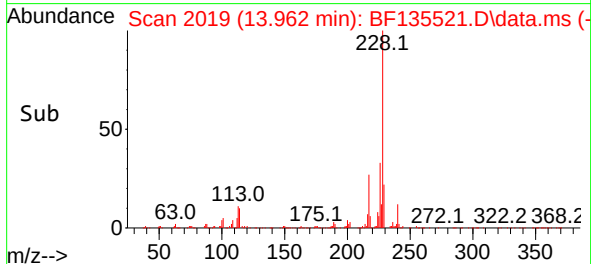
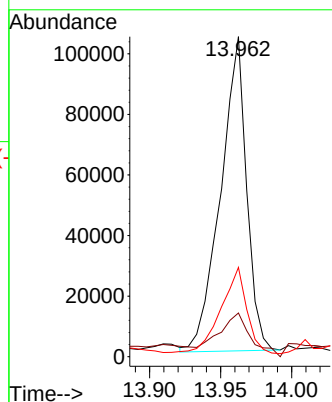
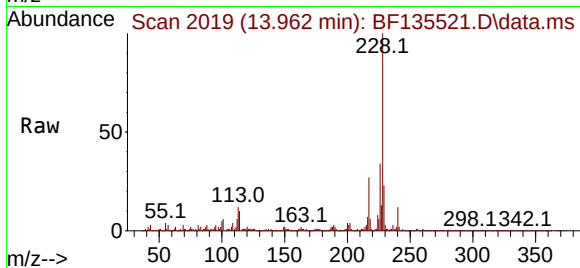
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2016
Delta R.T. 0.029 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion:240 Resp: 13212
Ion Ratio Lower Upper
240 100
120 13.6 9.4 14.2
236 27.9 19.8 29.8

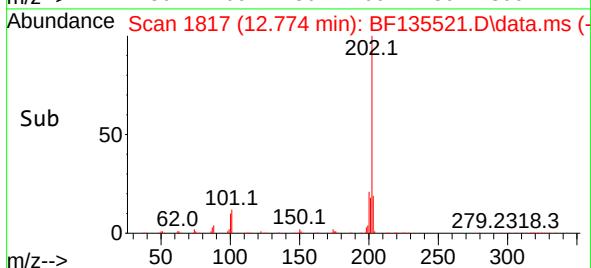
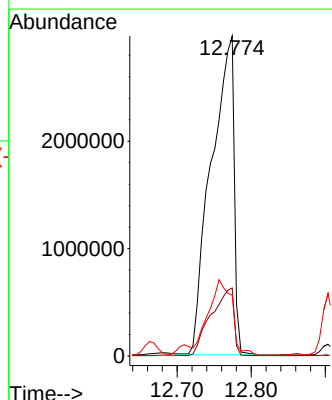
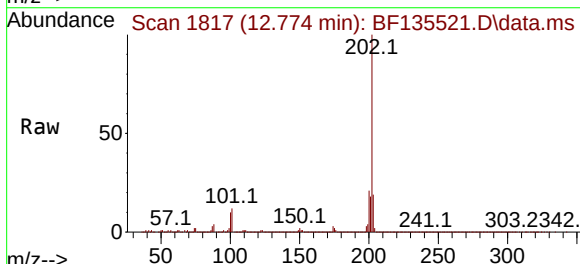
Manual Integrations
APPROVED

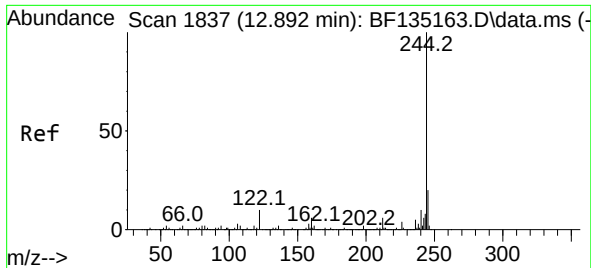
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#78
Pyrene
Concen: 505.147 ng
RT: 12.774 min Scan# 1817
Delta R.T. 0.047 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

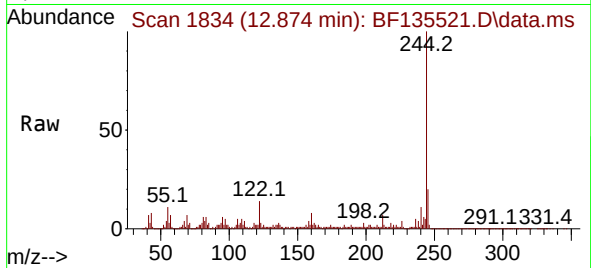
Tgt Ion:202 Resp: 6354255
Ion Ratio Lower Upper
202 100
200 21.2 16.2 24.2
203 19.0 14.2 21.4





#79
 Terphenyl-d14
 Concen: 67.404 ng
 RT: 12.874 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: BF135521.D
 Acq: 29 Sep 2023 17:46

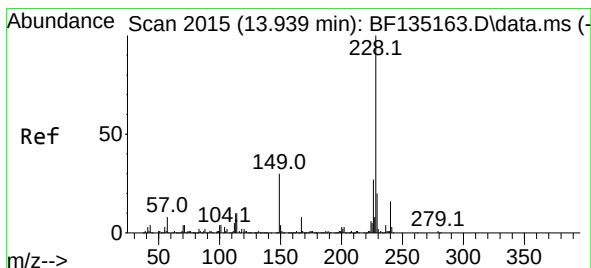
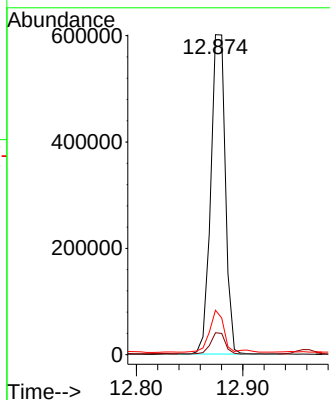
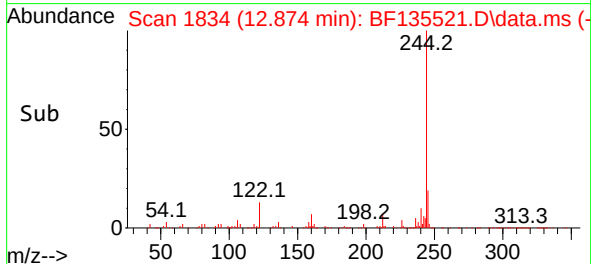
Instrument :
 BNA_F
 ClientSampleId :
 WC-1



Tgt Ion:244 Resp: 574478
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.1 7.7
 122 13.9 7.9 11.9

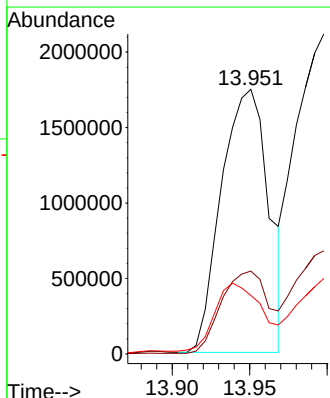
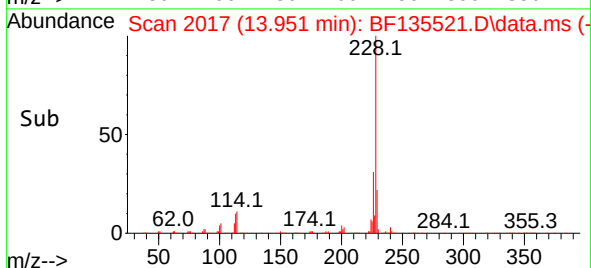
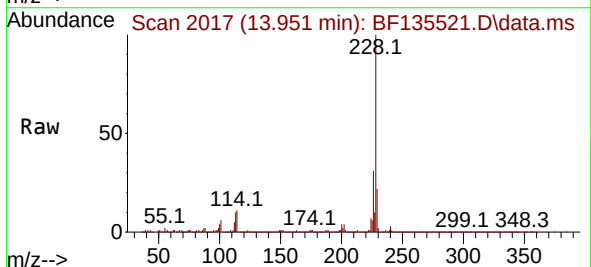
Manual Integrations
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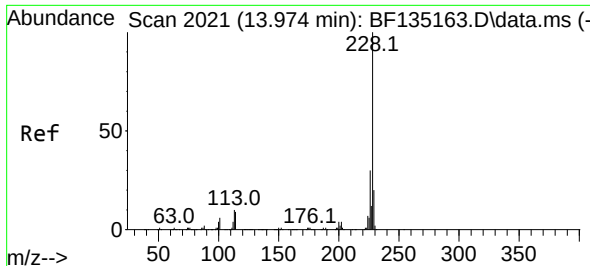
Reviewed By :Yogesh Patel 10/02/2023
 Supervised By :mohammad ahmed 10/03/2023



#81
 Benzo(a)anthracene
 Concen: 433.868 ng
 RT: 13.951 min Scan# 2017
 Delta R.T. 0.029 min
 Lab File: BF135521.D
 Acq: 29 Sep 2023 17:46

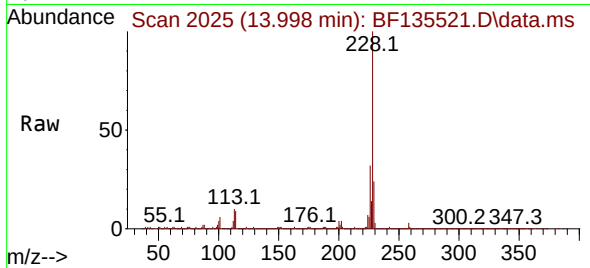
Tgt Ion:228 Resp: 3701531
 Ion Ratio Lower Upper
 228 100
 226 31.3 21.7 32.5
 229 22.1 15.8 23.8





#83
Chrysene
Concen: 389.644 ng
RT: 13.998 min Scan# 2021
Delta R.T. 0.035 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

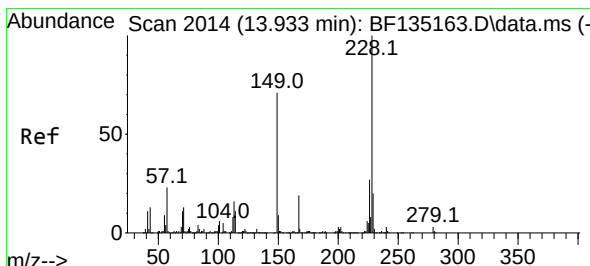
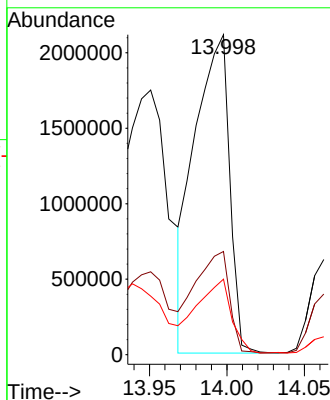
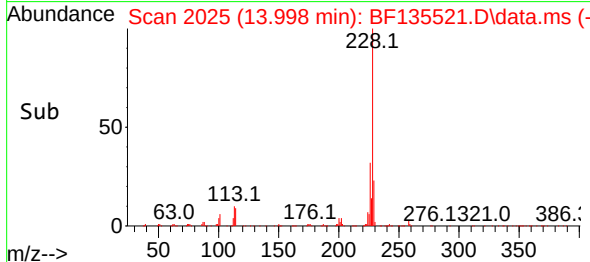
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:228 Resp: 3305059
Ion Ratio Lower Upper
228 100
226 32.3 24.3 36.5
229 23.6 16.0 24.0

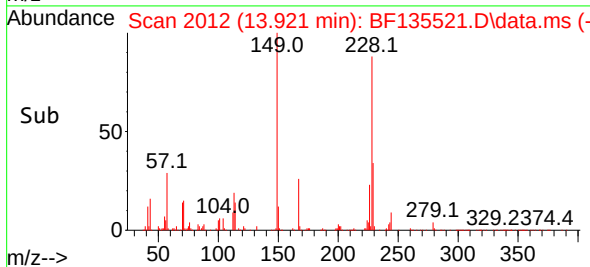
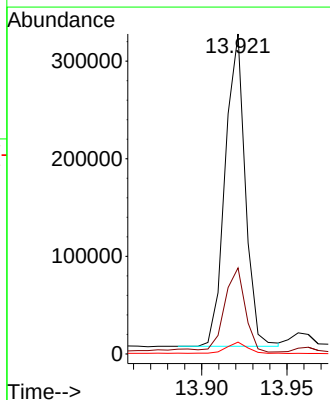
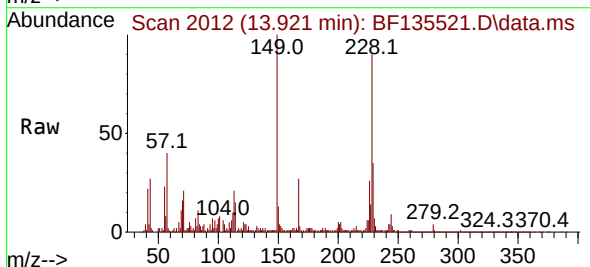
Manual Integrations
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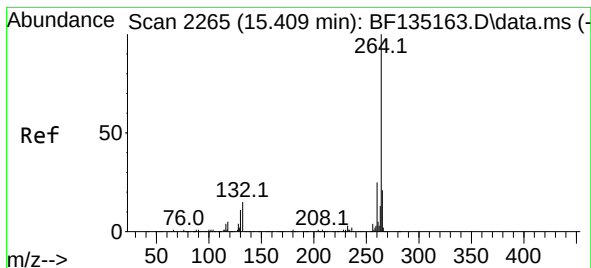
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#84
Bis(2-ethylhexyl)phthalate
Concen: 57.669 ng
RT: 13.921 min Scan# 2012
Delta R.T. 0.012 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

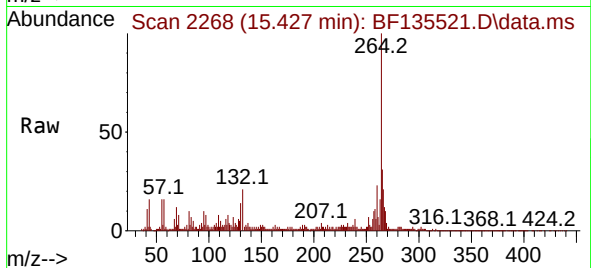
Tgt Ion:149 Resp: 262092
Ion Ratio Lower Upper
149 100
167 26.9 21.9 32.9
279 3.7 3.3 4.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 21
Delta R.T. 0.035 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

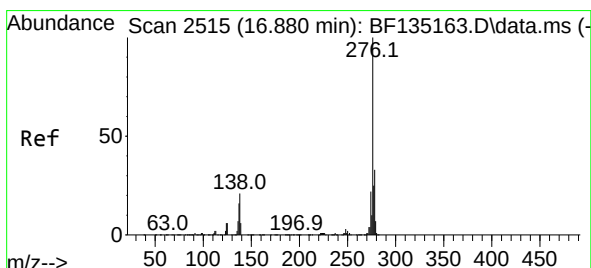
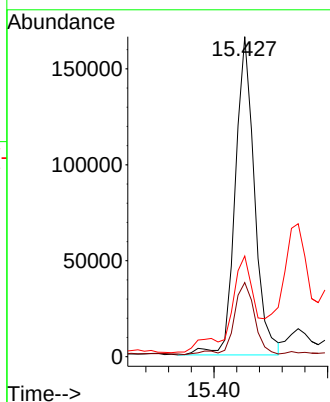
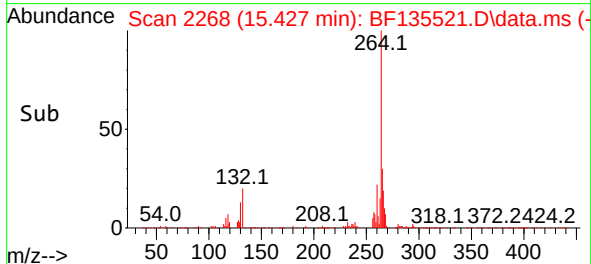
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:264 Resp: 19477
Ion Ratio Lower Upper
264 100
260 23.1 19.8 29.6
265 31.4 17.0 25.4

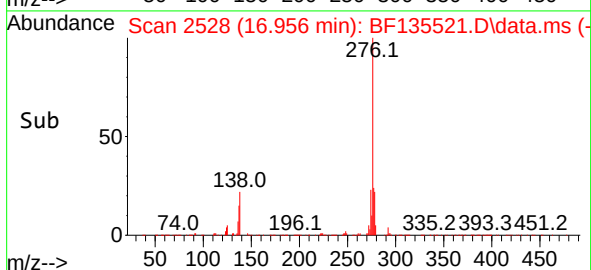
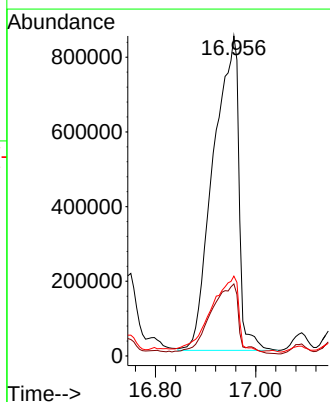
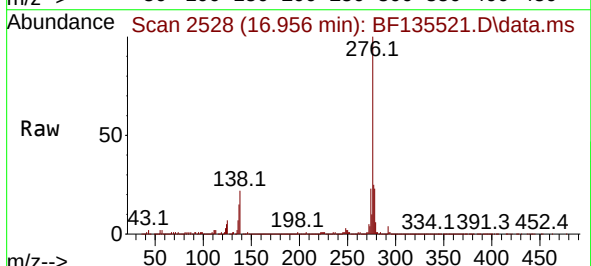
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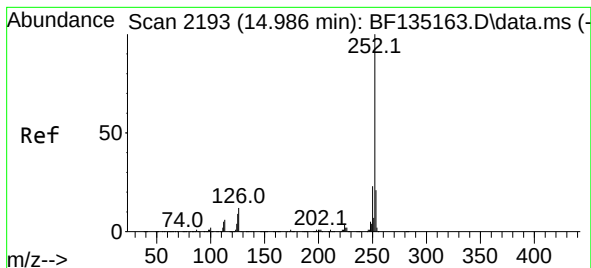
Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 233.424 ng
RT: 16.956 min Scan# 2528
Delta R.T. 0.076 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Tgt Ion:276 Resp: 2980968
Ion Ratio Lower Upper
276 100
138 21.7 19.2 28.8
277 25.8 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 461.275 ng m

RT: 15.021 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:252 Resp: 486357

Ion Ratio Lower Upper

252 100

253 23.8 17.2 25.8

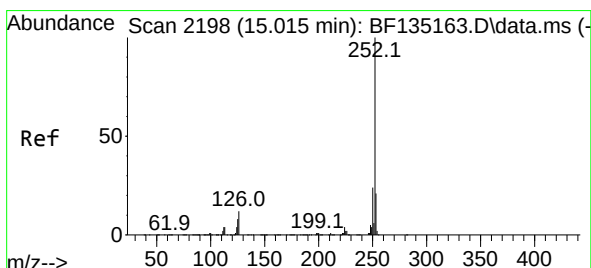
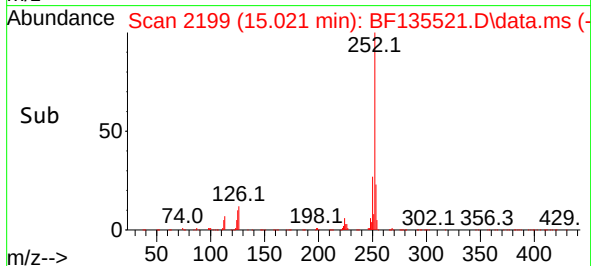
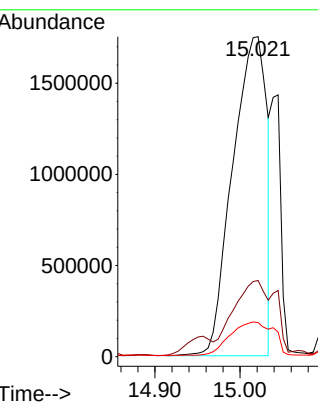
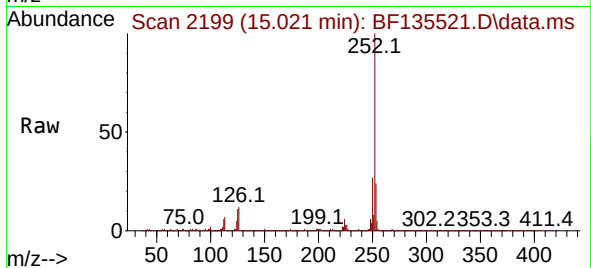
125 10.7 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#89

Benzo(k)fluoranthene

Concen: 107.770 ng m

RT: 15.045 min Scan# 2203

Delta R.T. 0.047 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

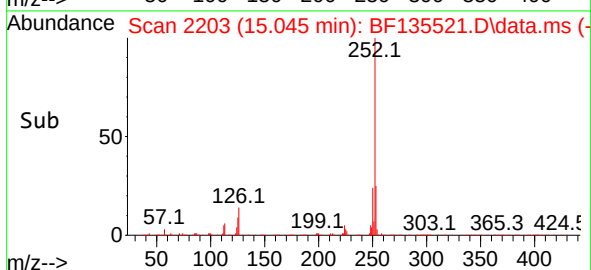
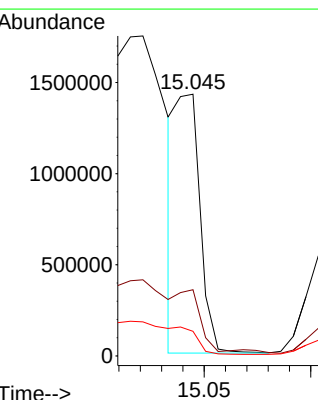
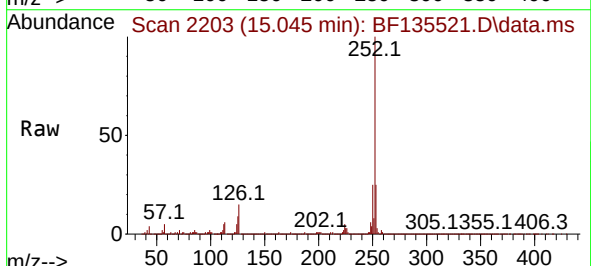
Tgt Ion:252 Resp: 1122463

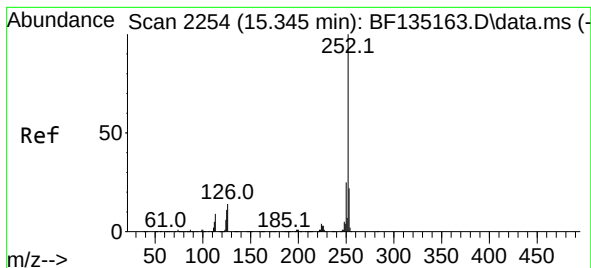
Ion Ratio Lower Upper

252 100

253 25.3 17.4 26.0

125 9.4 7.2 10.8





#90

Benzo(a)pyrene

Concen: 293.250 ng

RT: 15.386 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

Instrument :

BNF

ClientSampleId :

WC-1

Tgt Ion:252 Resp: 2948590

Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

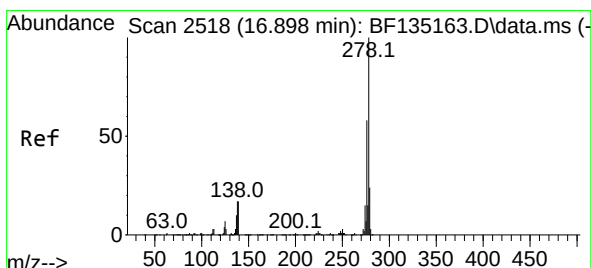
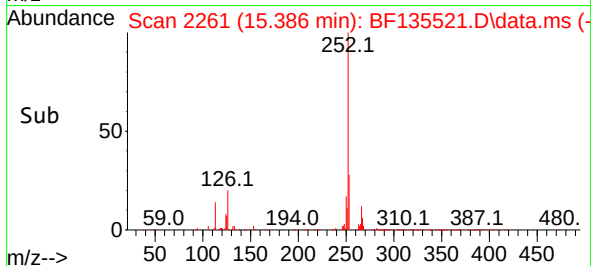
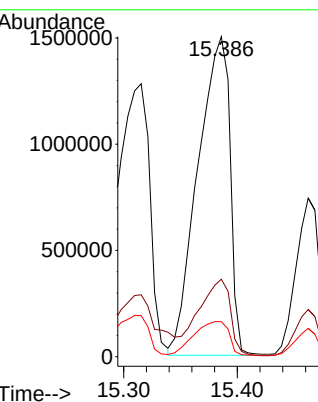
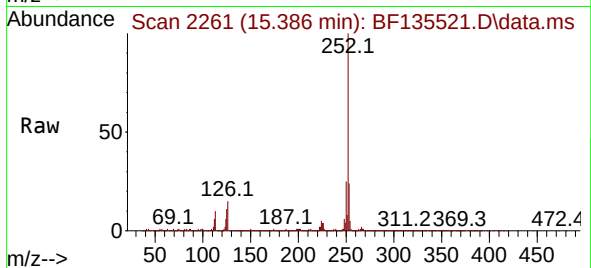
125 10.9 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/02/2023

Supervised By :mohammad ahmed 10/03/2023



#91

Dibenzo(a,h)anthracene

Concen: 55.383 ng m

RT: 16.939 min Scan# 2525

Delta R.T. 0.053 min

Lab File: BF135521.D

Acq: 29 Sep 2023 17:46

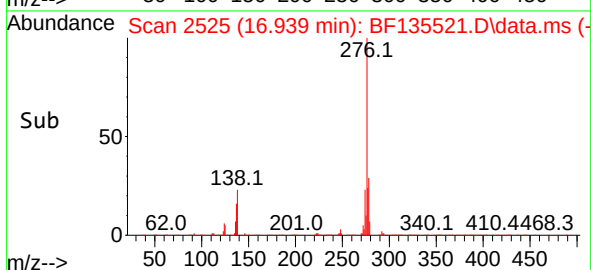
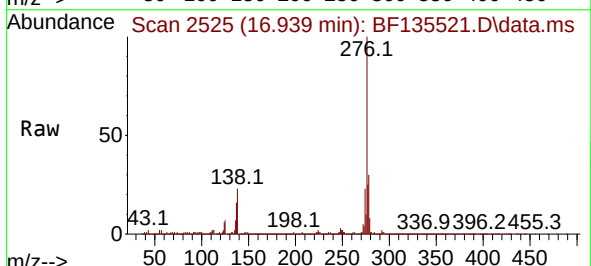
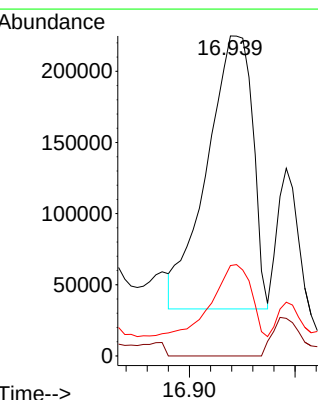
Tgt Ion:278 Resp: 578702

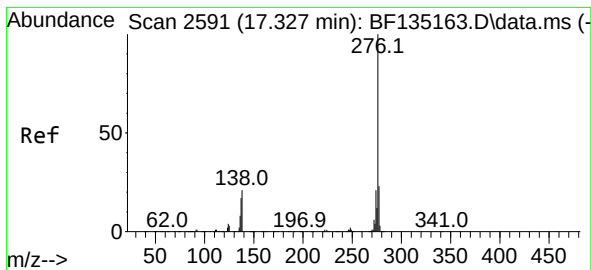
Ion Ratio Lower Upper

278 100

139 0.0 13.4 20.0#

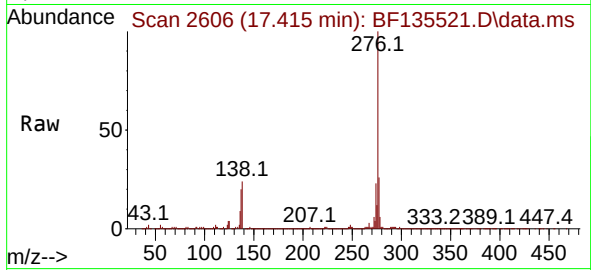
279 28.2 19.0 28.6





#92
Benzo(g,h,i)perylene
Concen: 268.745 ng
RT: 17.415 min Scan# 20
Delta R.T. 0.094 min
Lab File: BF135521.D
Acq: 29 Sep 2023 17:46

Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:276 Resp: 293273
Ion Ratio Lower Upper
276 100
277 25.8 18.8 28.2
138 23.7 16.9 25.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/02/2023
Supervised By :mohammad ahmed 10/03/2023

