

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092123\
 Data File : BF135387.D
 Acq On : 21 Sep 2023 18:44
 Operator : CG\JU
 Sample : 04512-02 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11986

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/27/2023

Quant Time: Sep 21 19:18:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	128600	20.000	ng	0.00
21) Naphthalene-d8	8.034	136	458520	20.000	ng	#-0.01
39) Acenaphthene-d10	9.792	164	185357	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	319036	20.000	ng	# 0.00
76) Chrysene-d12	13.951	240	211511	20.000	ng	0.00
86) Perylene-d12	15.415	264	186044	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	320352	40.516	ng	0.00
7) Phenol-d6	6.398	99	396568	39.444	ng	0.00
23) Nitrobenzene-d5	7.316	82	220273	26.100	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	59615	32.364	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	369135	30.046	ng	-0.02
79) Terphenyl-d14	12.880	244	299605	21.958	ng	-0.01
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.751	142	37371	2.496	ng	96
38) 1-Methylnaphthalene	8.845	142	55396	3.951	ng	98
49) Acenaphthylene	9.651	152	233808	13.612	ng	97
52) Acenaphthene	9.822	154	33090	3.261	ng	99
58) Fluorene	10.345	166	69265	5.819	ng	96
71) Phenanthrene	11.316	178	1027170	68.074	ng	99
72) Anthracene	11.363	178	210465	13.570	ng	99
73) Carbazole	11.522	167	54107	3.832	ng	97
75) Fluoranthene	12.516	202	1578944	100.425	ng	99
78) Pyrene	12.745	202	1661753	82.520	ng	100
81) Benzo(a)anthracene	13.939	228	884002m	64.725	ng	
83) Chrysene	13.980	228	818949	60.310	ng	98
87) Indeno(1,2,3-cd)pyrene	16.898	276	307331	25.195	ng	99
88) Benzo(b)fluoranthene	14.992	252	784030m	77.848	ng	
89) Benzo(k)fluoranthene	15.015	252	248903m	25.019	ng	
90) Benzo(a)pyrene	15.357	252	525662	54.732	ng	98
91) Dibenzo(a,h)anthracene	16.904	278	90608m	9.078	ng	
92) Benzo(g,h,i)perylene	17.345	276	303735	29.139	ng	# 95

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

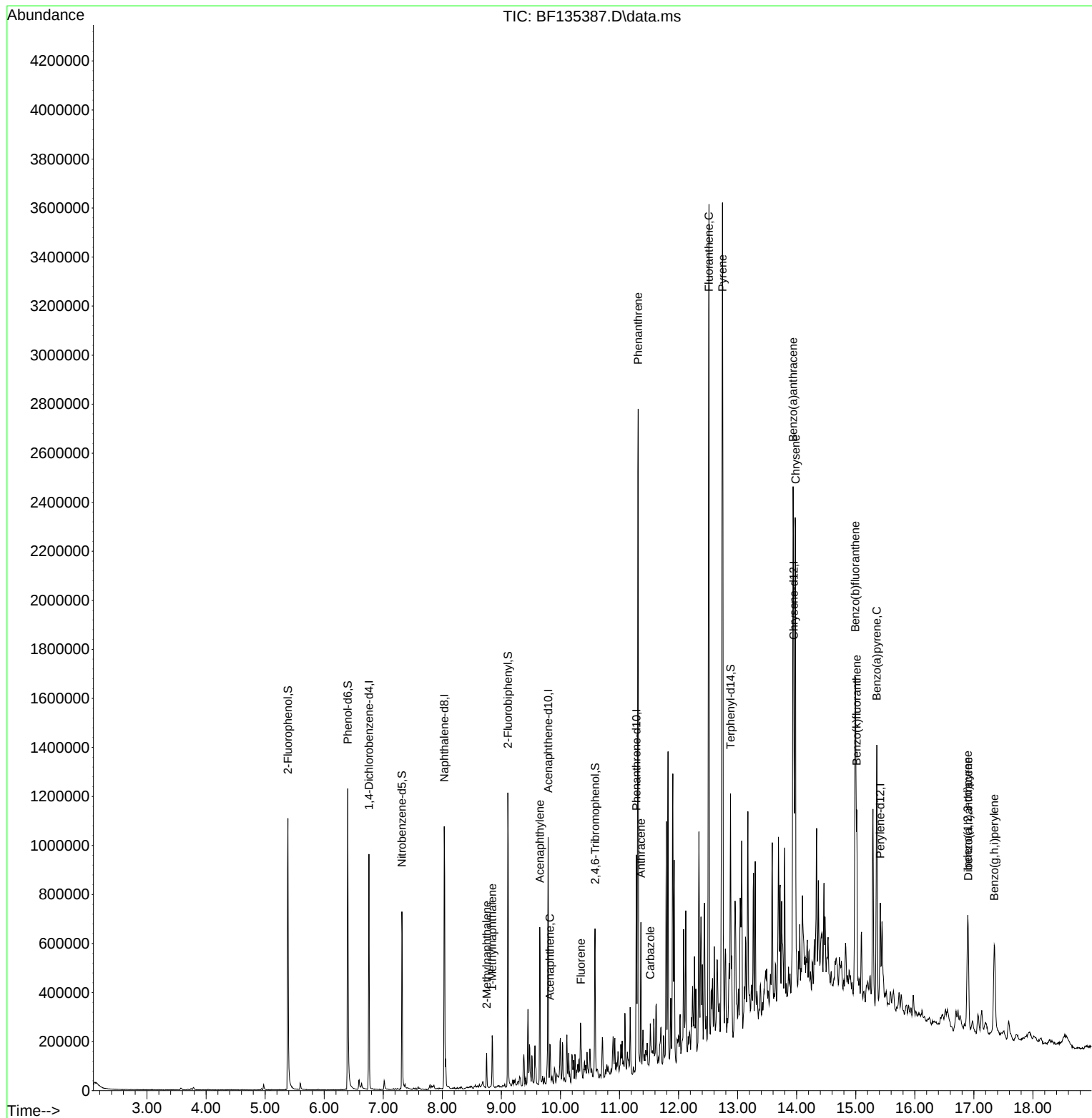
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092123\
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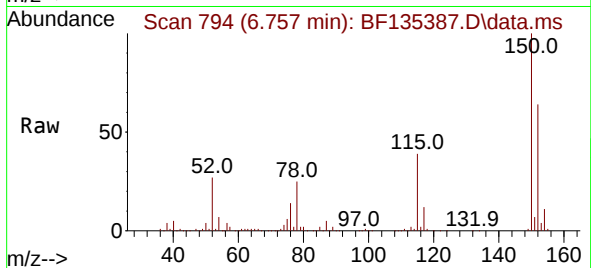
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

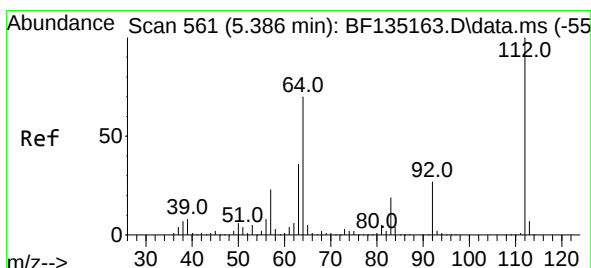
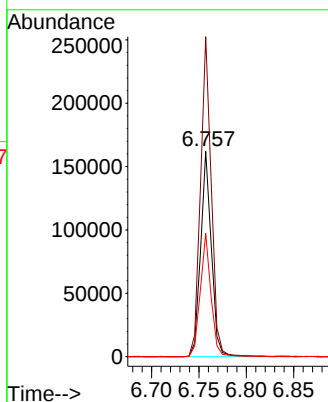
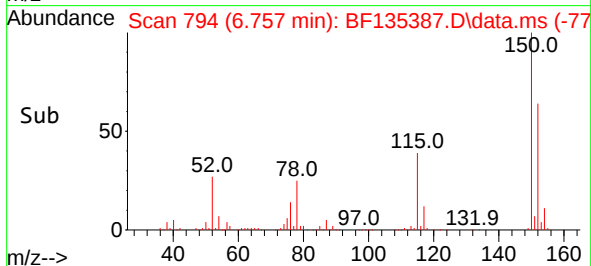
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion:152 Resp: 128600
Ion Ratio Lower Upper
152 100
150 155.8 127.8 191.6
115 60.1 49.8 74.8

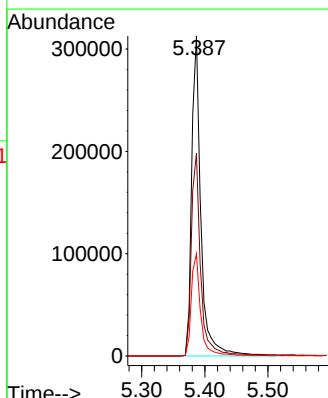
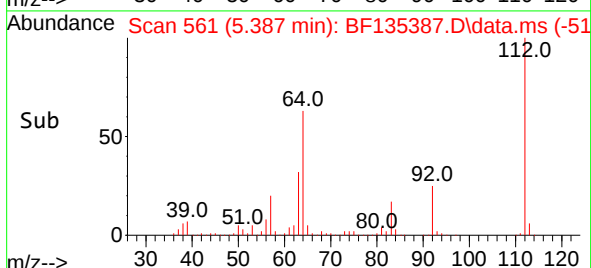
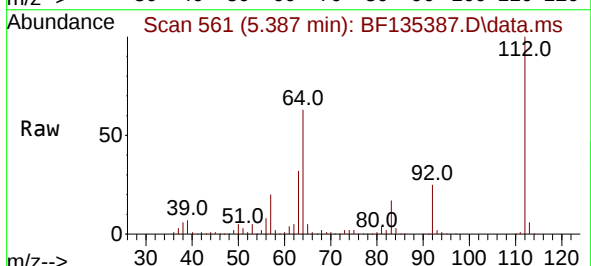
Manual Integrations
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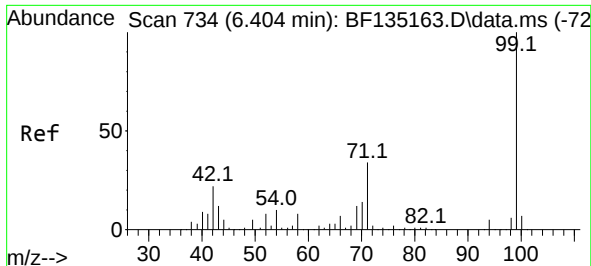
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#5
2-Fluorophenol
Concen: 40.516 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

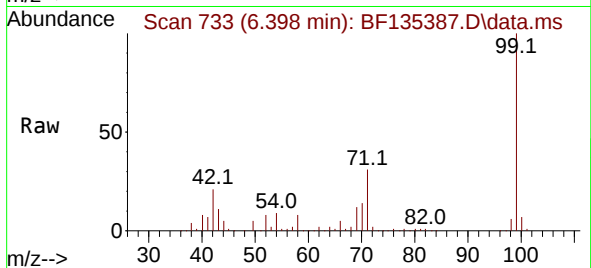
Tgt Ion:112 Resp: 320352
Ion Ratio Lower Upper
112 100
64 63.3 55.9 83.9
63 31.9 29.0 43.6





#7
Phenol-d6
Concen: 39.444 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

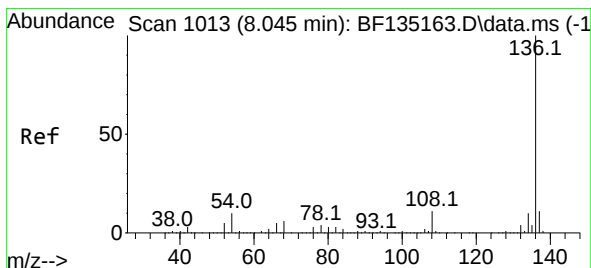
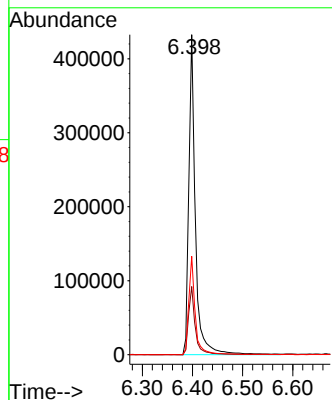
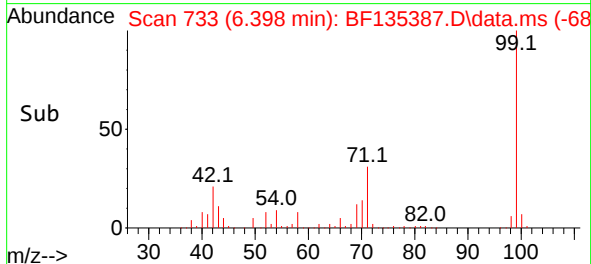
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion: 99 Resp: 396568
Ion Ratio Lower Upper
99 100
42 21.3 17.9 26.9
71 30.8 27.0 40.6

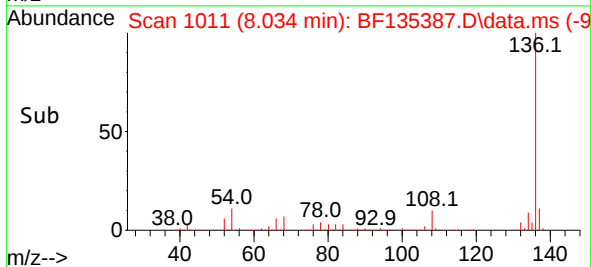
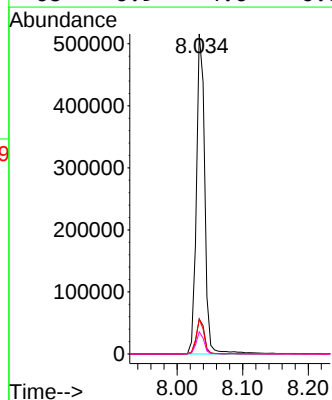
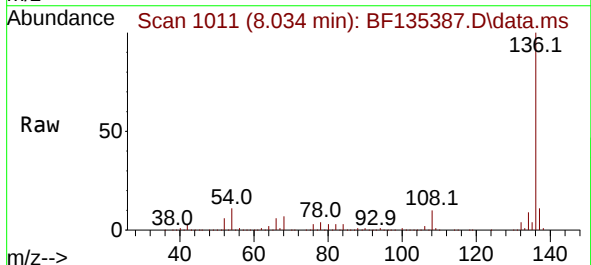
Manual Integrations
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Reviewed By :Yogesh Patel 09/22/2023
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

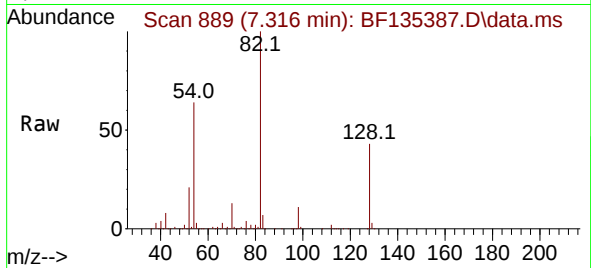
Tgt Ion:136 Resp: 458520
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.9 7.7 11.5
68 6.9 4.6 6.8#





#23
Nitrobenzene-d5
Concen: 26.100 ng
RT: 7.316 min Scan# 889
Delta R.T. -0.017 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

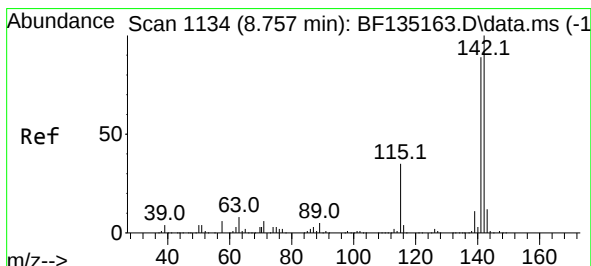
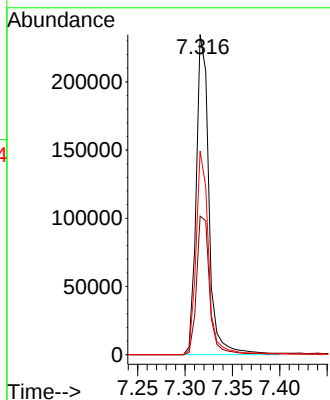
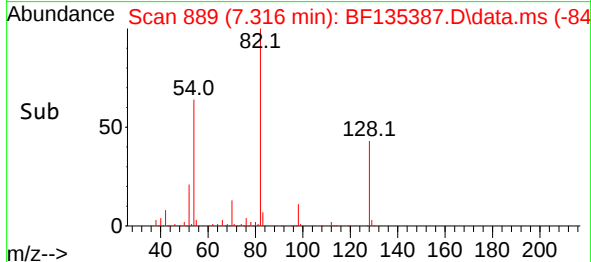
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion: 82 Resp: 22027
Ion Ratio Lower Upper
82 100
128 43.3 35.8 53.6
54 63.6 50.6 76.0

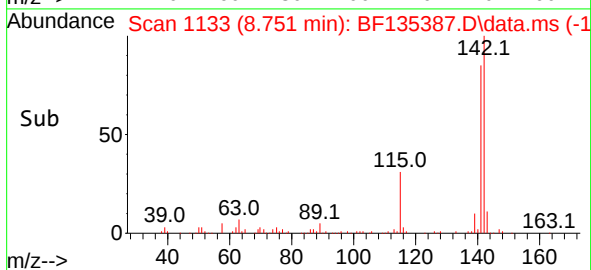
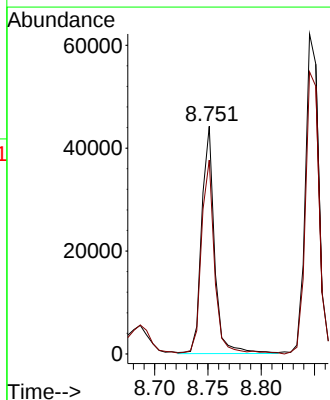
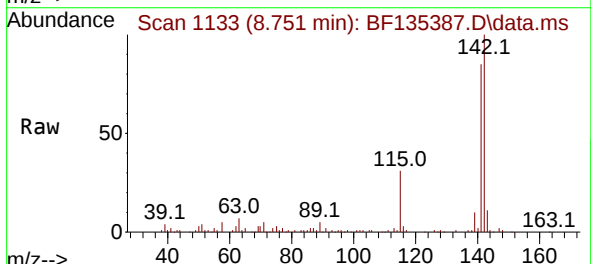
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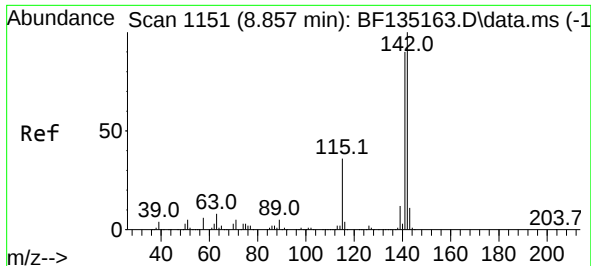
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#37
2-Methylnaphthalene
Concen: 2.496 ng
RT: 8.751 min Scan# 1133
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

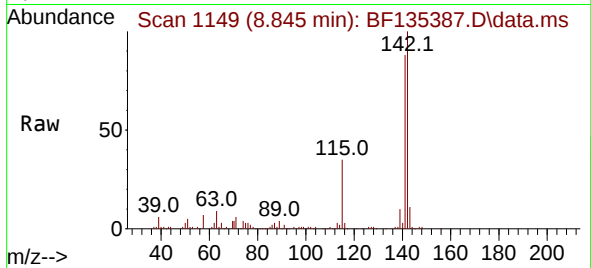
Tgt Ion:142 Resp: 37371
Ion Ratio Lower Upper
142 100
141 85.2 71.0 106.6





#38
1-Methylnaphthalene
Concen: 3.951 ng
RT: 8.845 min Scan# 1151
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

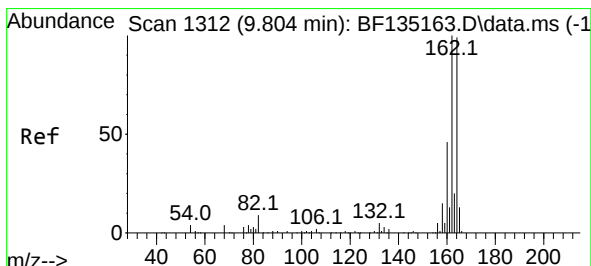
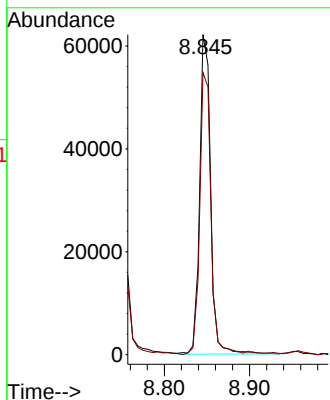
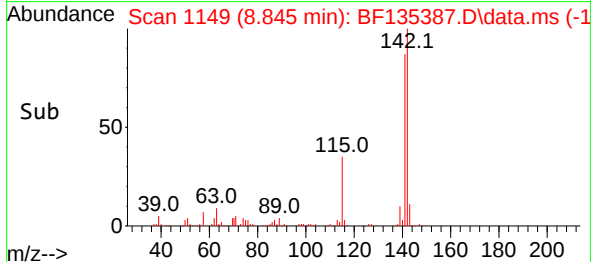
Instrument :
BNA_F
ClientSampleId :
72-11986



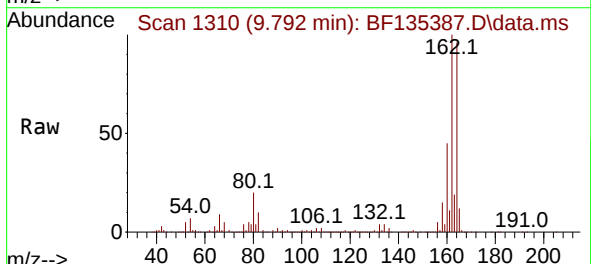
Tgt Ion:142 Resp: 55390
Ion Ratio Lower Upper
142 100
141 88.1 72.4 108.6

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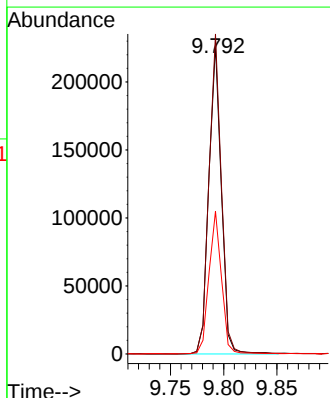
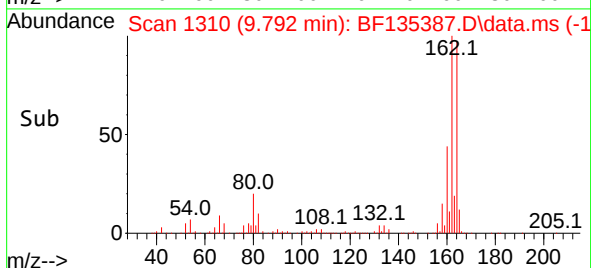
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44



Tgt Ion:164 Resp: 185357
Ion Ratio Lower Upper
164 100
162 103.6 81.0 121.4
160 46.2 37.0 55.4





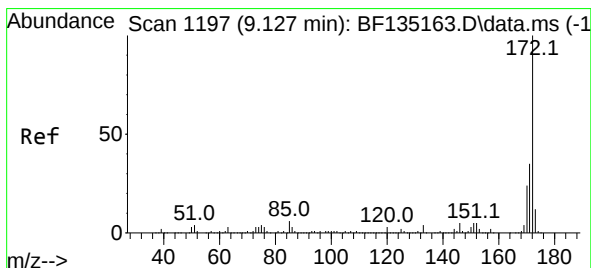
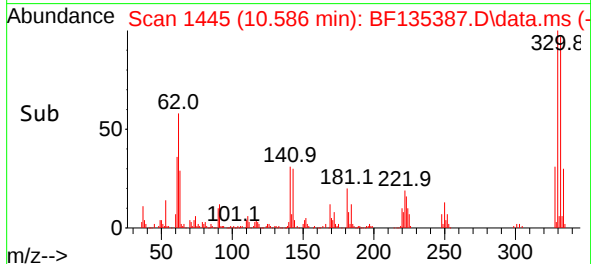
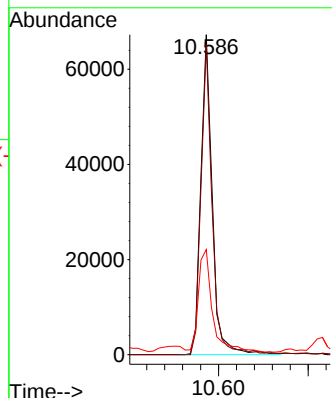
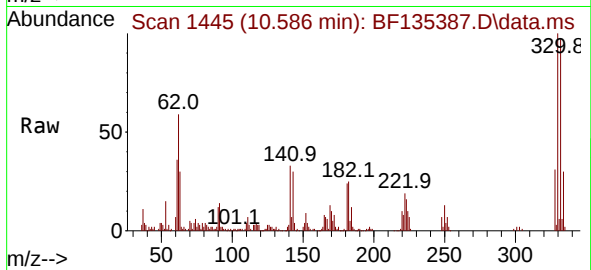
#42
2,4,6-Tribromophenol
Concen: 32.364 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Instrument :
BNA_F
ClientSampleId :
72-11986

Tgt Ion: 330 Resp: 5961
Ion Ratio Lower Upper
330 100
332 94.1 77.3 115.9
141 39.3 25.8 38.8

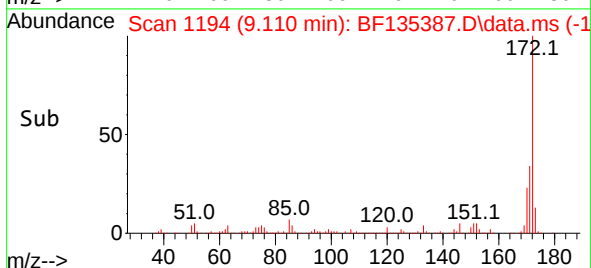
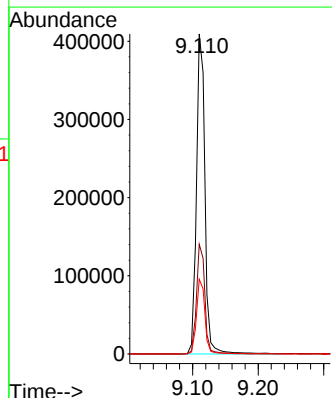
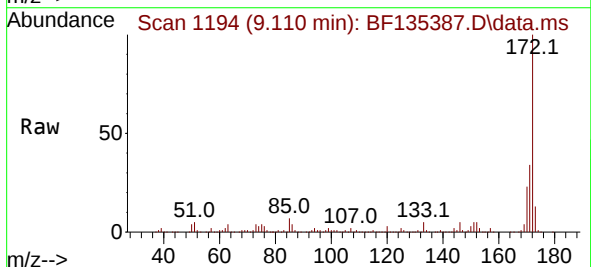
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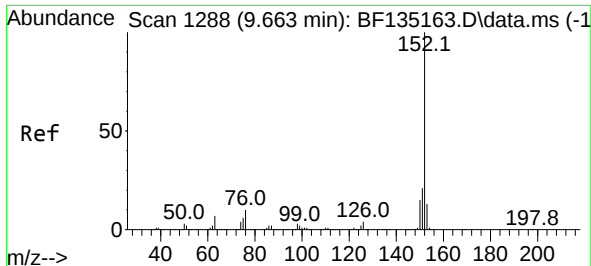
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#45
2-Fluorobiphenyl
Concen: 30.046 ng
RT: 9.110 min Scan# 1194
Delta R.T. -0.017 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

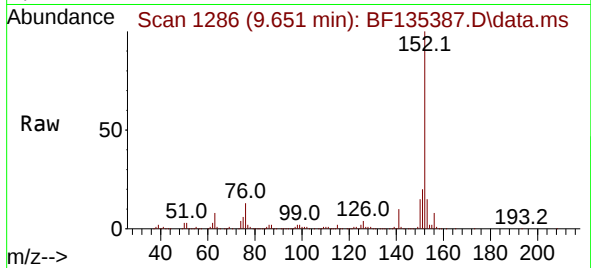
Tgt Ion: 172 Resp: 369135
Ion Ratio Lower Upper
172 100
171 34.3 28.4 42.6
170 23.4 19.0 28.4





#49
Acenaphthylene
Concen: 13.612 ng
RT: 9.651 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

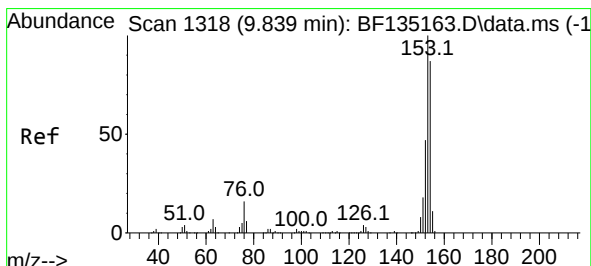
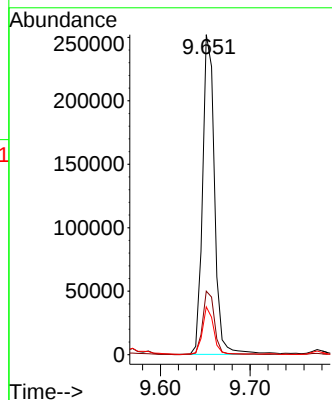
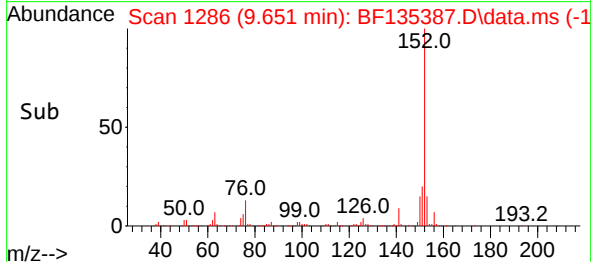
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion:152 Resp: 233808
Ion Ratio Lower Upper
152 100
151 19.9 16.4 24.6
153 15.0 10.4 15.6

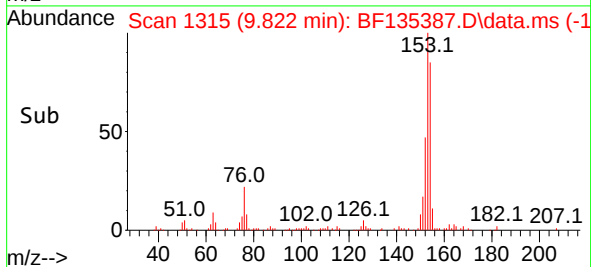
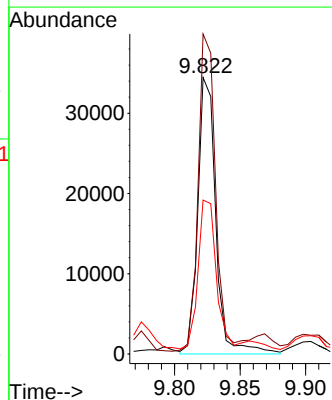
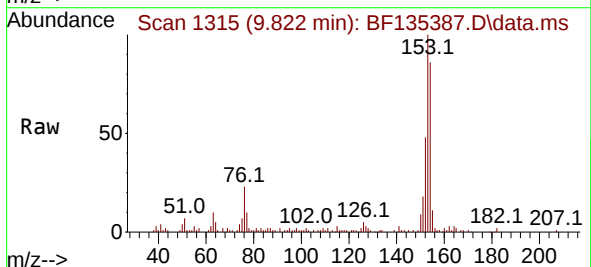
Manual Integrations
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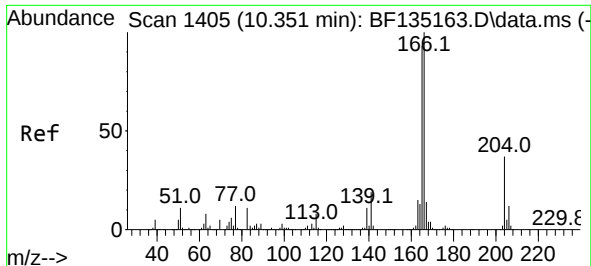
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#52
Acenaphthene
Concen: 3.261 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.017 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

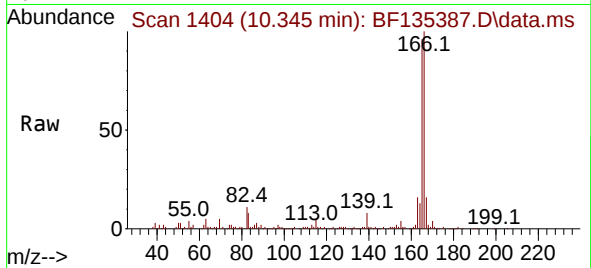
Tgt Ion:154 Resp: 33090
Ion Ratio Lower Upper
154 100
153 115.8 92.1 138.1
152 55.7 43.1 64.7





#58
Fluorene
Concen: 5.819 ng
RT: 10.345 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

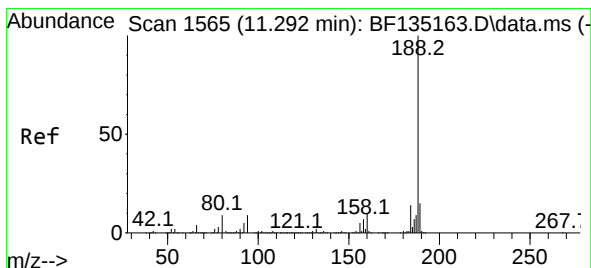
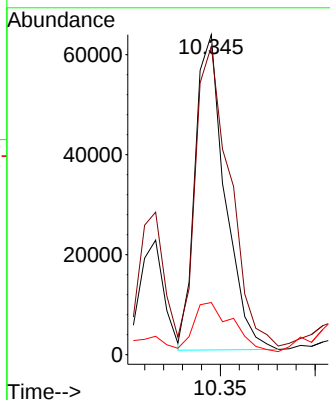
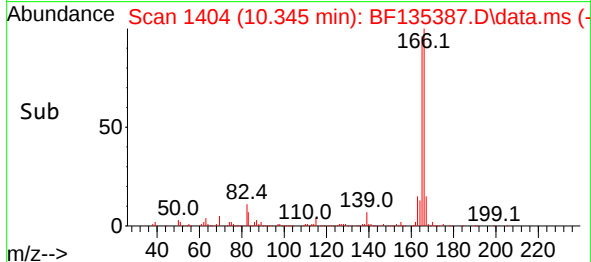
Instrument :
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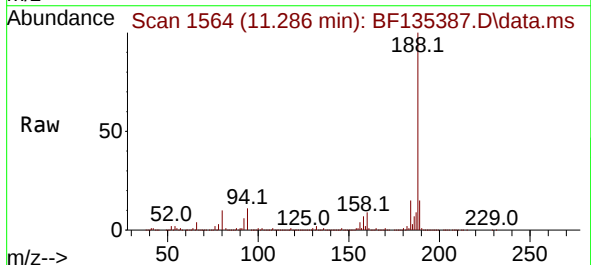
Tgt Ion:166 Resp: 69268
Ion Ratio Lower Upper
166 100
165 96.4 74.3 111.5
167 16.3 10.9 16.3

Manual Integrations
APPROVED

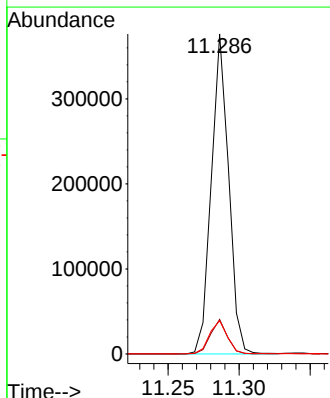
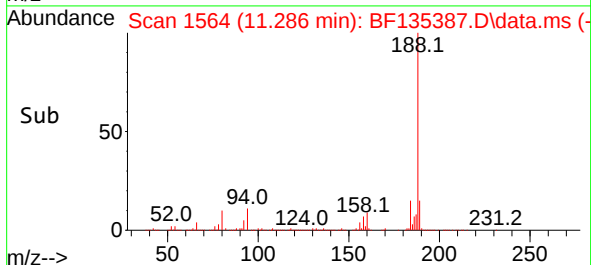
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023

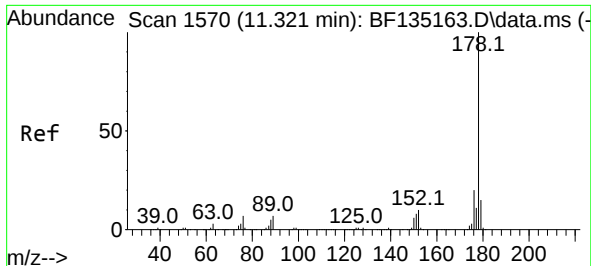


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44



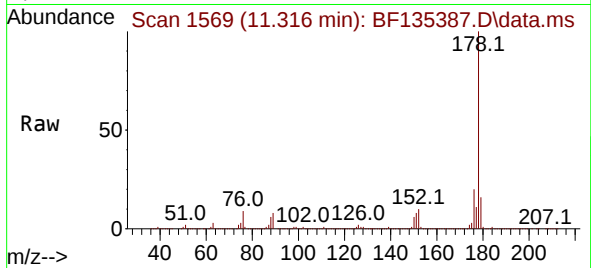
Tgt Ion:188 Resp: 319036
Ion Ratio Lower Upper
188 100
94 10.8 7.0 10.6#
80 10.4 7.5 11.3





#71
Phenanthrene
Concen: 68.074 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

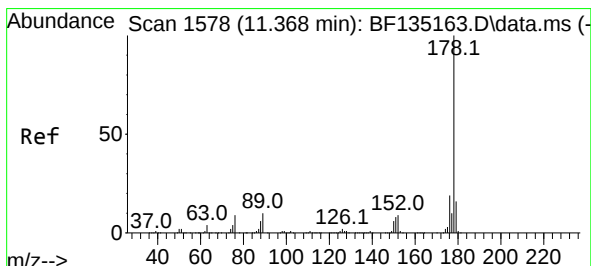
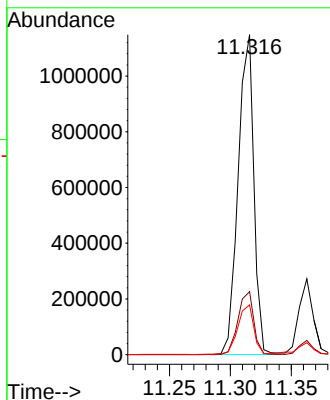
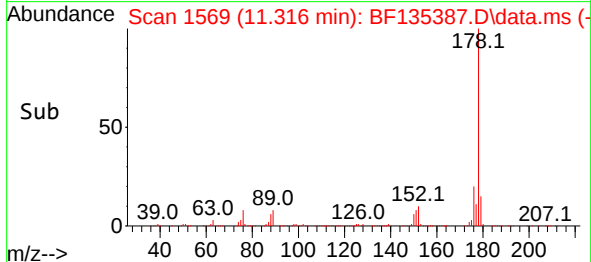
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion:178 Resp: 1027170
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.6 12.0 18.0

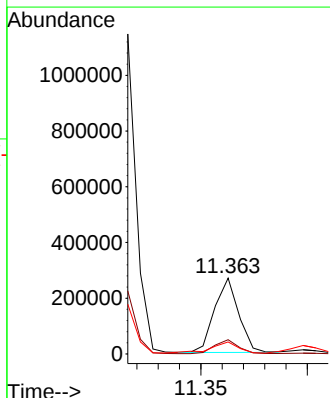
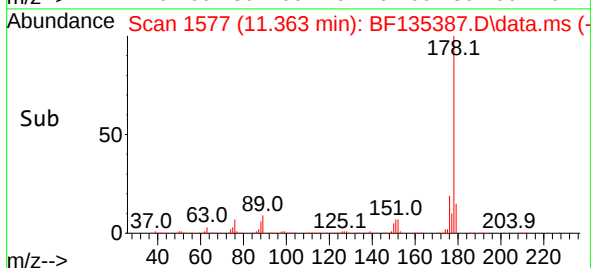
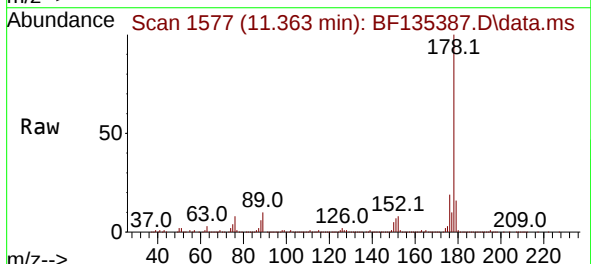
Manual Integrations
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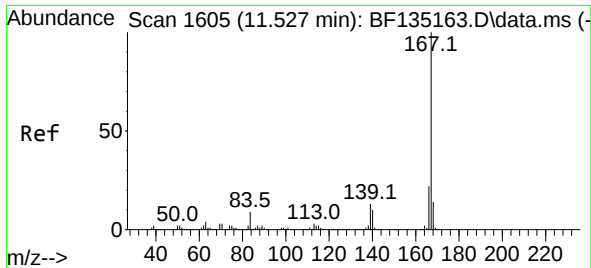
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#72
Anthracene
Concen: 13.570 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:178 Resp: 210465
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.8 12.6 19.0





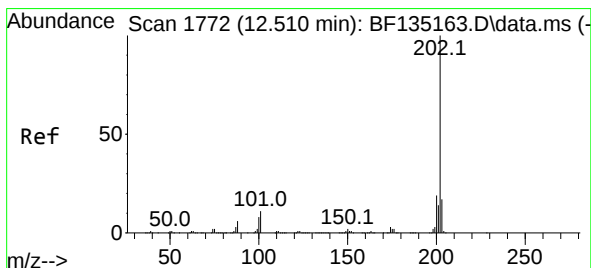
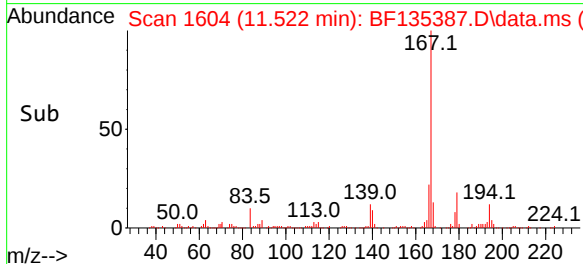
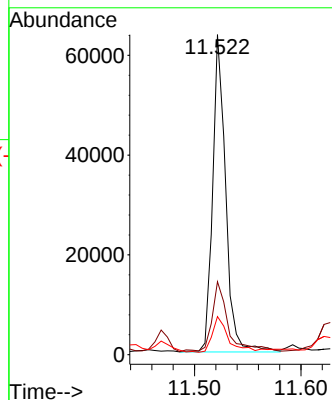
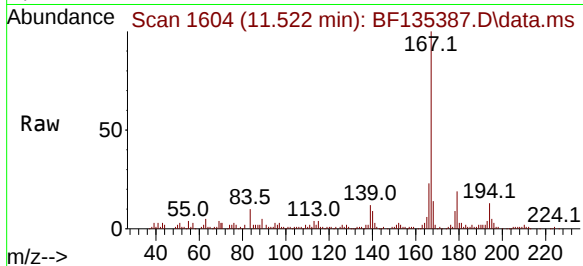
#73
 Carbazole
 Concen: 3.832 ng
 RT: 11.522 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135387.D
 Acq: 21 Sep 2023 18:44

Instrument :
 BNA_F
 ClientSampleId :
 72-11986

Tgt Ion:167 Resp: 5410
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.4 26.0
 139 11.9 10.6 15.8

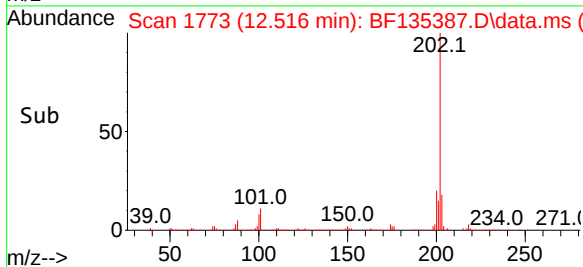
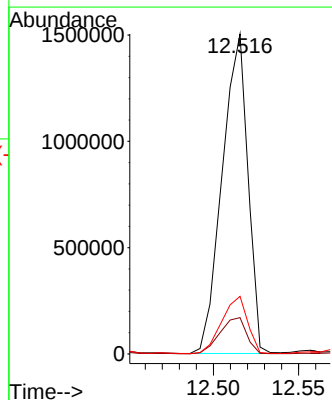
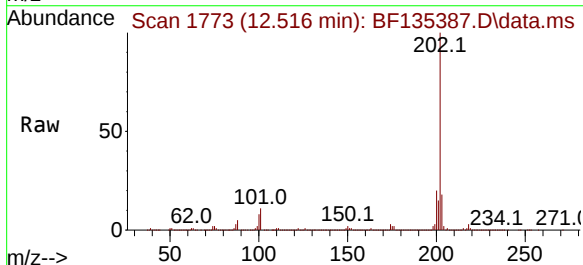
Manual Integrations
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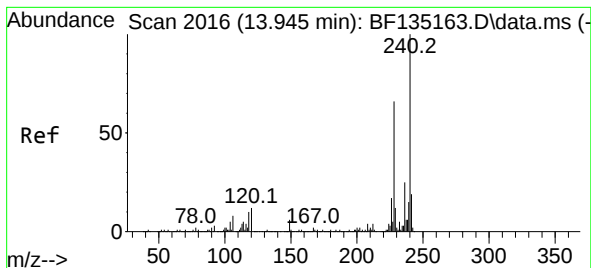
Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/27/2023



#75
 Fluoranthene
 Concen: 100.425 ng
 RT: 12.516 min Scan# 1773
 Delta R.T. 0.006 min
 Lab File: BF135387.D
 Acq: 21 Sep 2023 18:44

Tgt Ion:202 Resp: 1578944
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 31.3
 203 18.0 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2016

Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

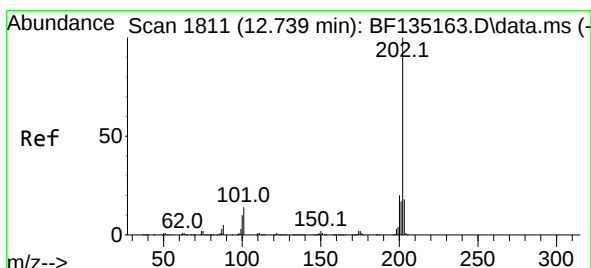
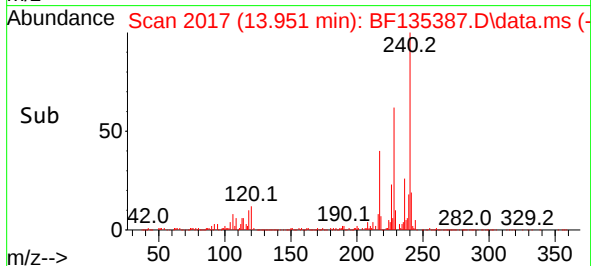
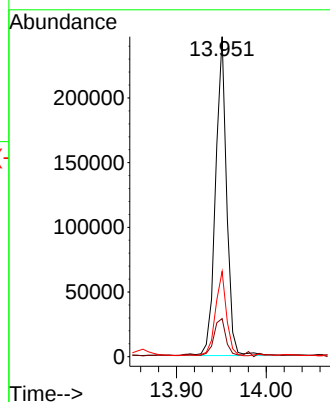
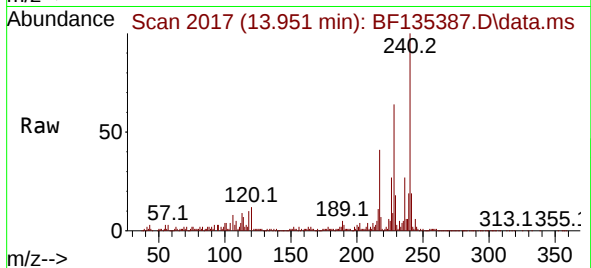
ClientSampleId :

72-11986

Tgt Ion:240 Resp: 211511
 Ion Ratio Lower Upper
 240 100
 120 11.9 9.4 14.2
 236 26.6 19.8 29.8

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/27/2023



#78

Pyrene

Concen: 82.520 ng

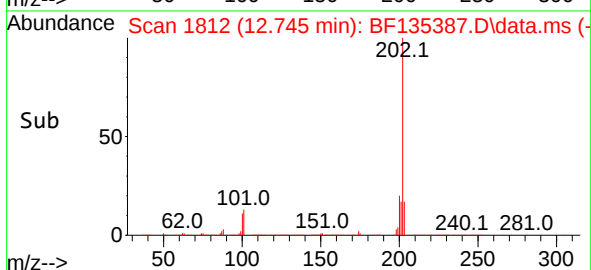
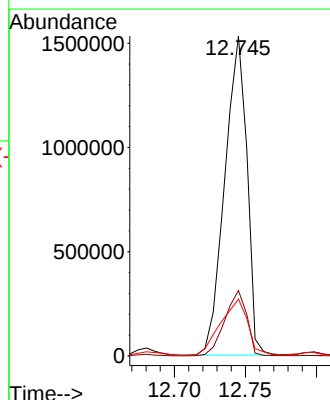
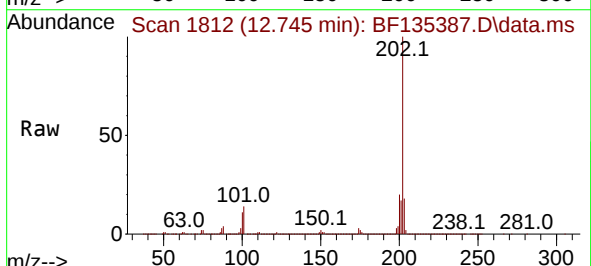
RT: 12.745 min Scan# 1812

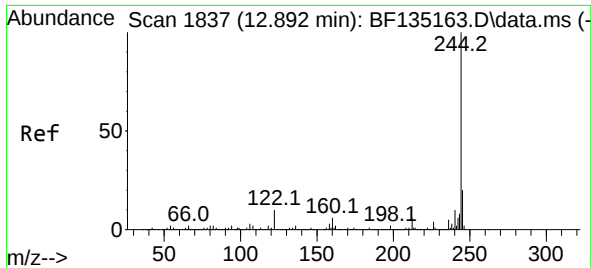
Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Tgt Ion:202 Resp: 1661753
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 17.8 14.2 21.4





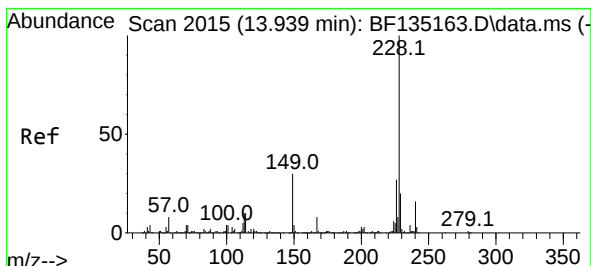
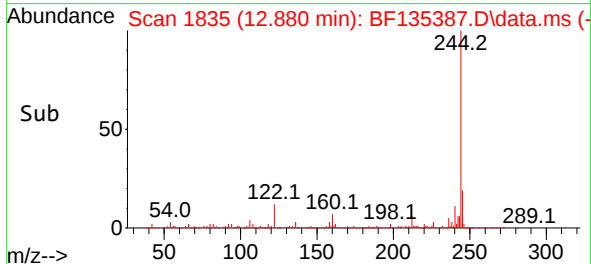
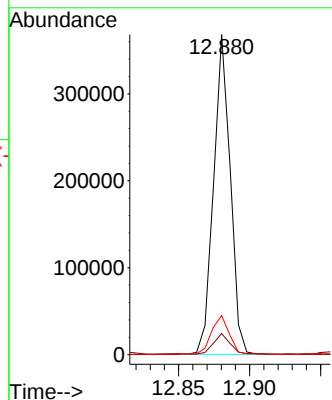
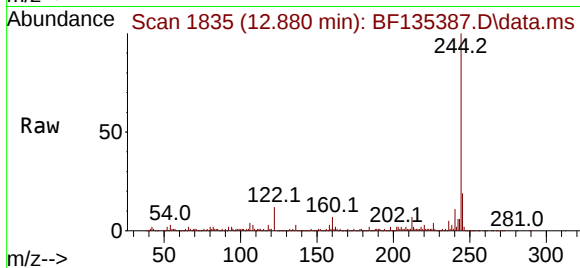
#79
Terphenyl-d14
Concen: 21.958 ng
RT: 12.880 min Scan# 1835
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Instrument :
BNA_F
ClientSampleId :
72-11986

Tgt Ion:244 Resp: 299600
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 12.2 7.9 11.9

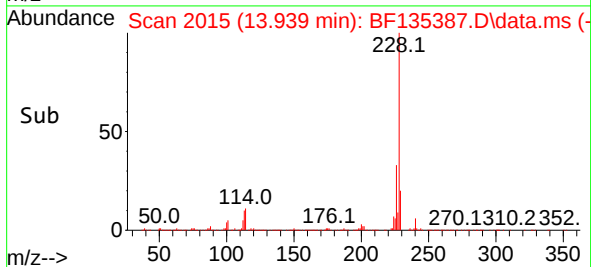
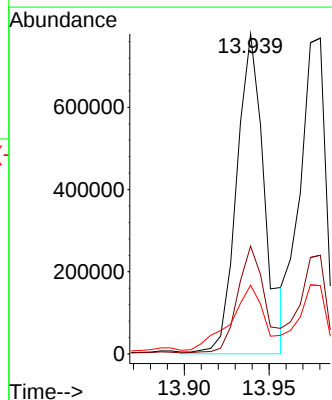
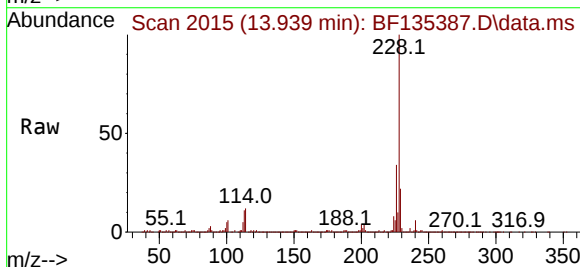
Manual Integrations
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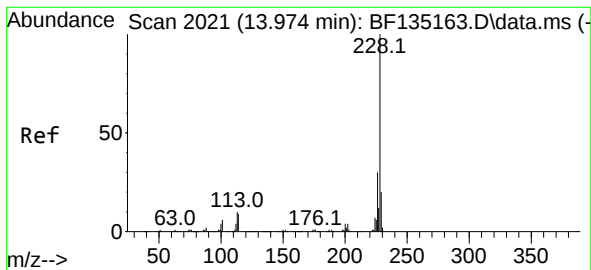
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#81
Benzo(a)anthracene
Concen: 64.725 ng m
RT: 13.939 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:228 Resp: 884002
Ion Ratio Lower Upper
228 100
226 33.7 21.7 32.5#
229 21.5 15.8 23.8





#83

Chrysene

Concen: 60.310 ng

RT: 13.980 min Scan# 2021

Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

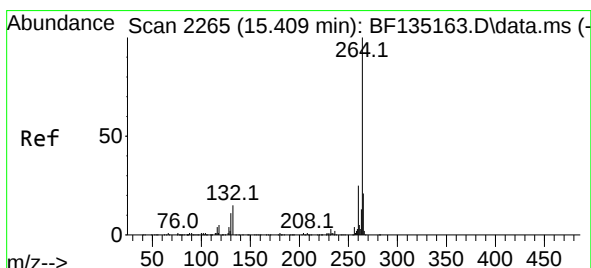
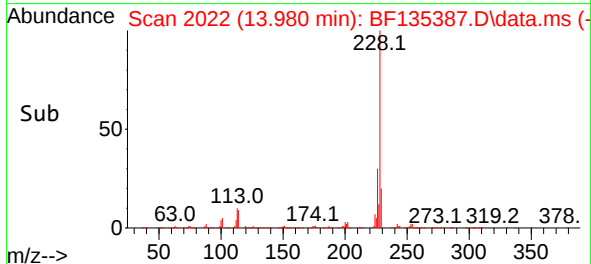
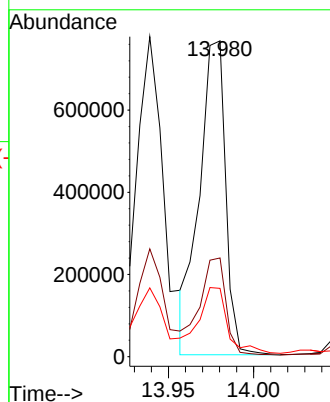
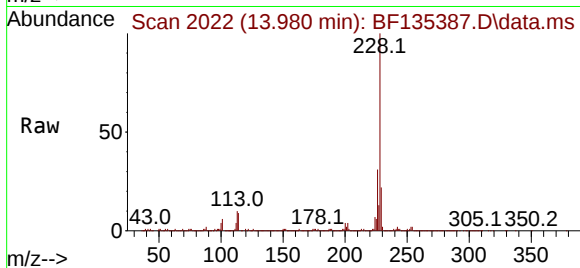
Tgt Ion:228	Resp: 818949
Ion Ratio	Lower Upper
228 100	
226 31.3	24.3 36.5
229 21.6	16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 09/22/2023

Supervised By :mohammad ahmed 09/27/2023



#86

Perylene-d12

Concen: 20.000 ng

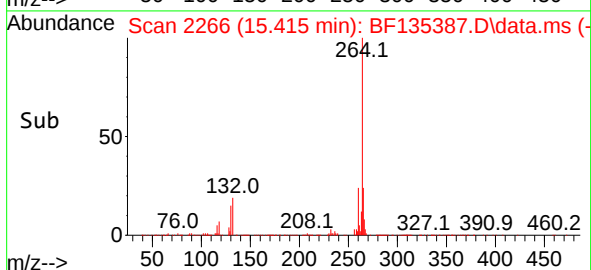
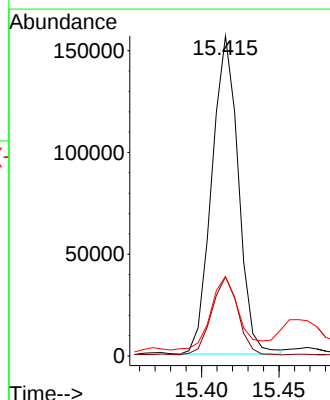
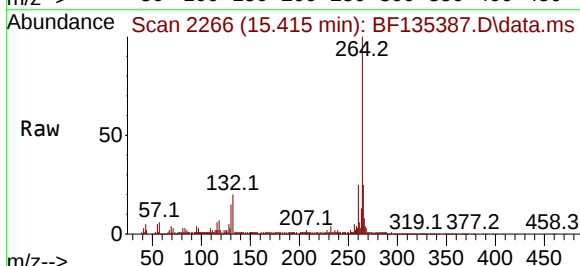
RT: 15.415 min Scan# 2266

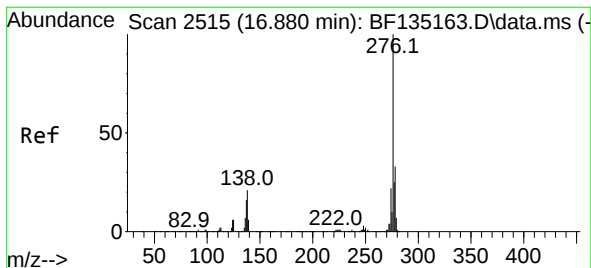
Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Tgt Ion:264	Resp: 186044
Ion Ratio	Lower Upper
264 100	
260 24.8	19.8 29.6
265 24.8	17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.195 ng

RT: 16.898 min Scan# 2118

Delta R.T. 0.018 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

Tgt Ion:276 Resp: 30733

Ion Ratio Lower Upper

276 100

138 24.6 19.2 28.8

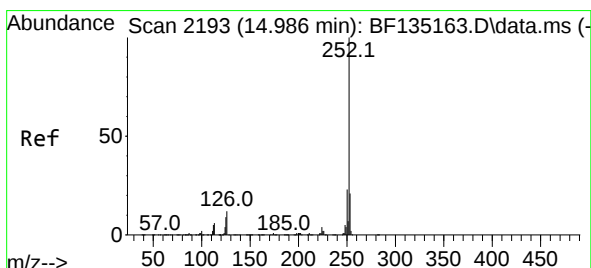
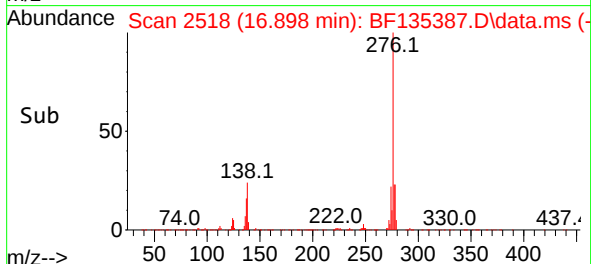
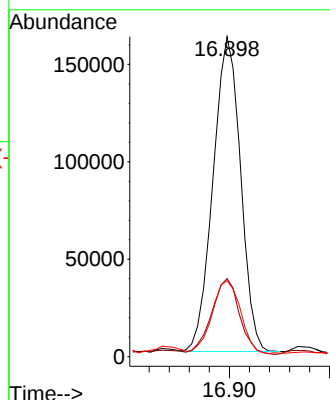
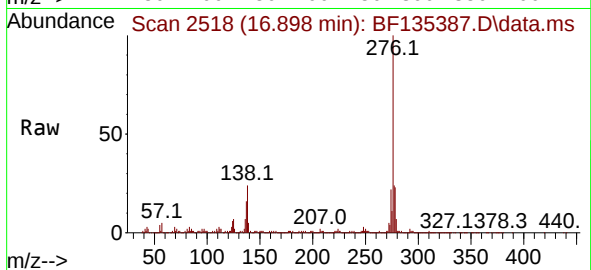
277 23.9 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/22/2023

Supervised By :mohammad ahmed 09/27/2023



#88

Benzo(b)fluoranthene

Concen: 77.848 ng m

RT: 14.992 min Scan# 2194

Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

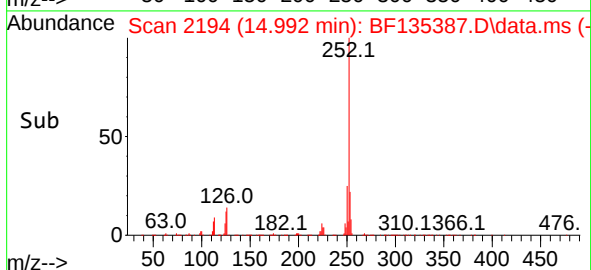
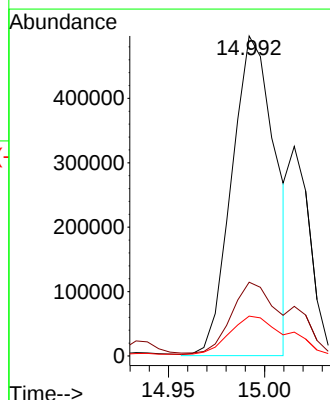
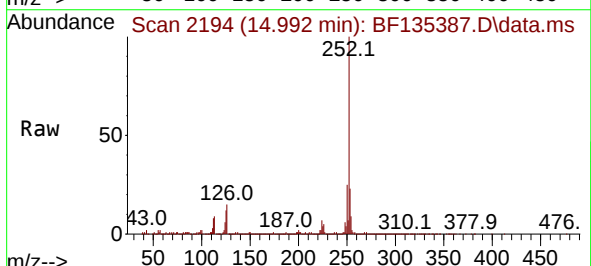
Tgt Ion:252 Resp: 784030

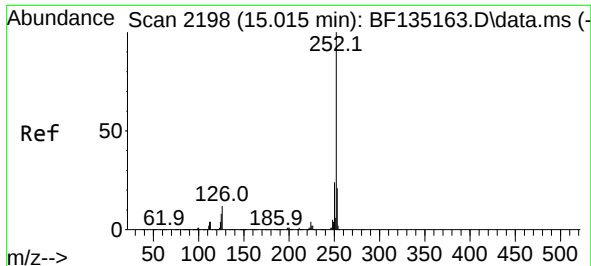
Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

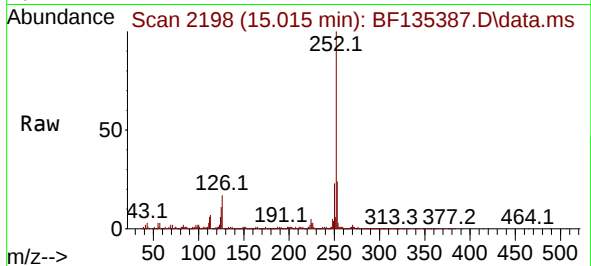
125 12.5 7.1 10.7#





#89
Benzo(k)fluoranthene
Concen: 25.019 ng m
RT: 15.015 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

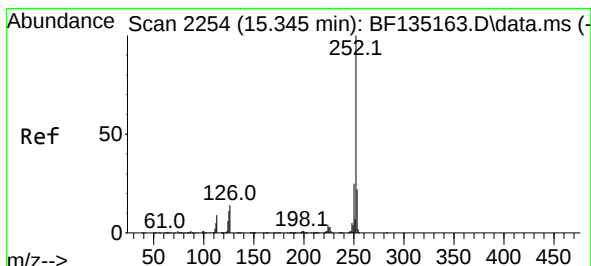
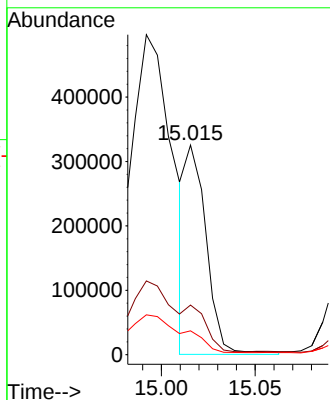
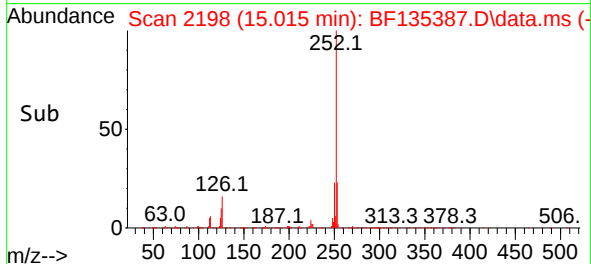
Instrument :
BNA_F
ClientSampleId :
72-11986



Tgt Ion:252 Resp: 248900
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 11.4 7.2 10.8

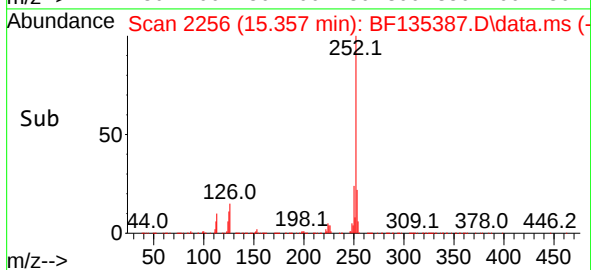
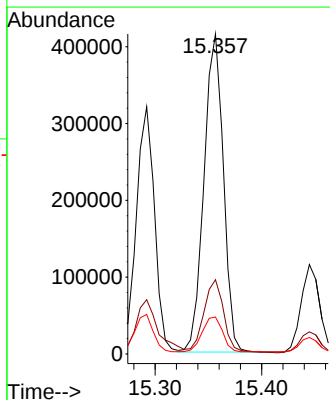
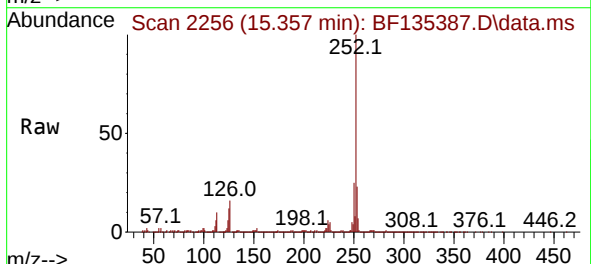
Manual Integrations
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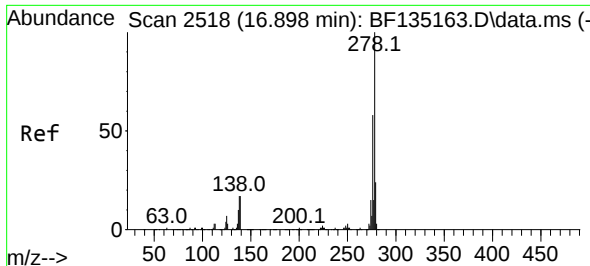
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#90
Benzo(a)pyrene
Concen: 54.732 ng
RT: 15.357 min Scan# 2256
Delta R.T. 0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:252 Resp: 525662
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 11.5 9.2 13.8





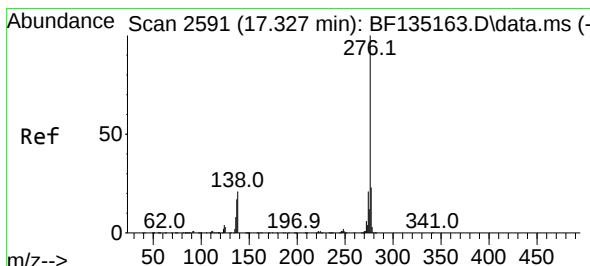
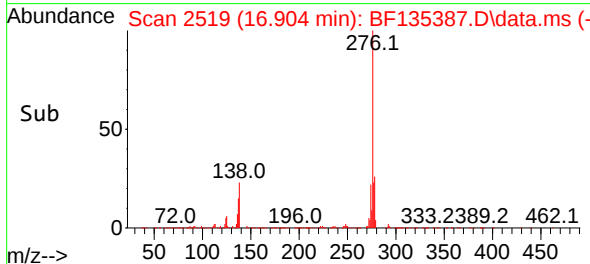
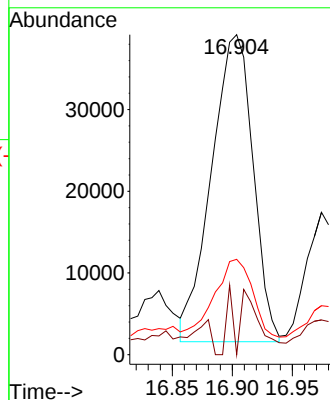
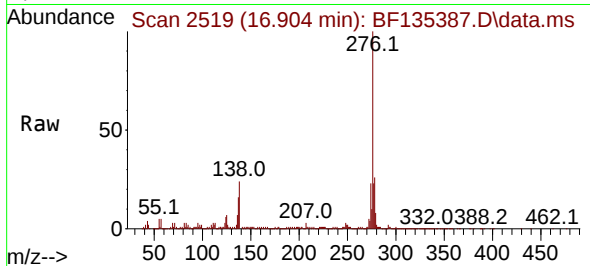
#91
Dibenzo(a,h)anthracene
Concen: 9.078 ng m
RT: 16.904 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Instrument :
BNA_F
ClientSampleId :
72-11986

Tgt Ion:278 Resp: 9060
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0
279 29.8 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/27/2023



#92
Benzo(g,h,i)perylene
Concen: 29.139 ng
RT: 17.345 min Scan# 2594
Delta R.T. 0.018 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:276 Resp: 303735
Ion Ratio Lower Upper
276 100
277 24.4 18.8 28.2
138 25.4 16.9 25.3

