

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF0222323\
 Data File : BF132535.D
 Acq On : 23 Feb 2023 23:04
 Operator : CG\JU
 Sample : 01639-01DL 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-02212023DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/24/2023
 Supervised By : Jagrut Upadhyay 02/24/2023

Quant Time: Feb 24 00:41:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 23 00:59:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.007	152	158078	20.000	ng	0.00
21) Naphthalene-d8	8.295	136	542944	20.000	ng	0.00
39) Acenaphthene-d10	10.054	164	242068	20.000	ng	0.00
64) Phenanthrene-d10	11.548	188	412560	20.000	ng	0.00
76) Chrysene-d12	14.213	240	304296	20.000	ng	0.00
86) Perylene-d12	15.765	264	241008	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.631	112	587642	60.333	ng	0.00
7) Phenol-d6	6.631	99	738397	58.088	ng	-0.01
23) Nitrobenzene-d5	7.566	82	468738	40.960	ng	-0.01
42) 2,4,6-Tribromophenol	10.848	330	136869	52.355	ng	-0.01
45) 2-Fluorobiphenyl	9.366	172	733965	46.168	ng	-0.01
79) Terphenyl-d14	13.142	244	740336	41.135	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	10.089	154	30578	2.083	ng	99
58) Fluorene	10.607	166	44705	2.731	ng	88
71) Phenanthrene	11.577	178	544050	25.455	ng	97
72) Anthracene	11.624	178	108560	4.933	ng	99
73) Carbazole	11.783	167	59177	2.982	ng	96
75) Fluoranthene	12.777	202	1137704	48.693	ng	98
78) Pyrene	13.007	202	1028881	37.190	ng	99
81) Benzo(a)anthracene	14.201	228	496453	21.805	ng	97
83) Chrysene	14.236	228	499133	23.443	ng	97
87) Indeno(1,2,3-cd)pyrene	17.365	276	195130	12.356	ng	96
88) Benzo(b)fluoranthene	15.301	252	522567m	32.355	ng	
89) Benzo(k)fluoranthene	15.324	252	176750m	11.182	ng	
90) Benzo(a)pyrene	15.701	252	348222	23.036	ng	97
91) Dibenzo(a,h)anthracene	17.377	278	50042m	3.889	ng	
92) Benzo(g,h,i)perylene	17.854	276	185016	13.910	ng	97

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

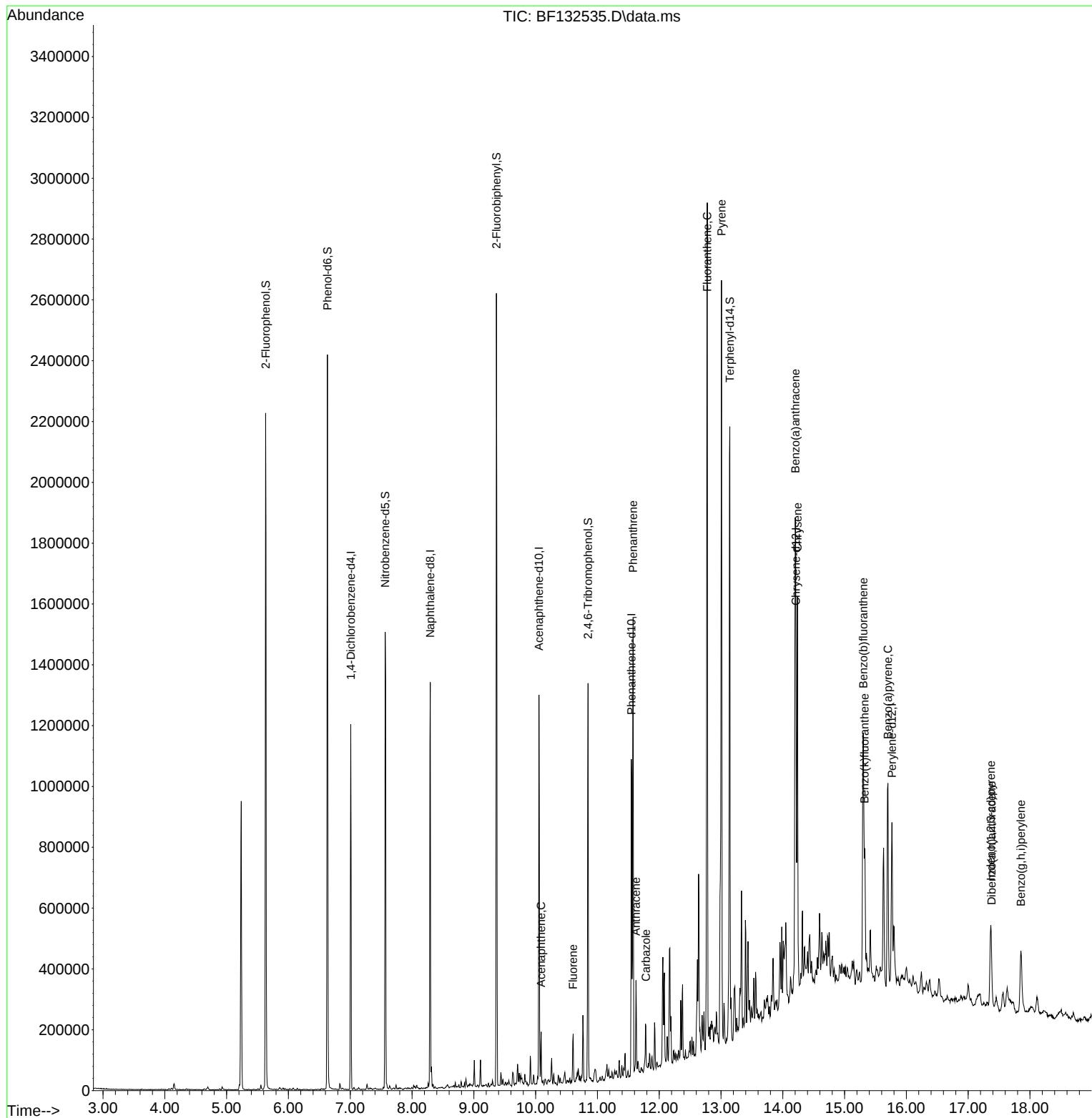
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Acq On : 23 Feb 2023 23:04
Operator : CG\JU
Sample : 01639-01DL 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL

Quant Time: Feb 24 00:41:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 23 00:59:42 2023
Response via : Initial Calibration

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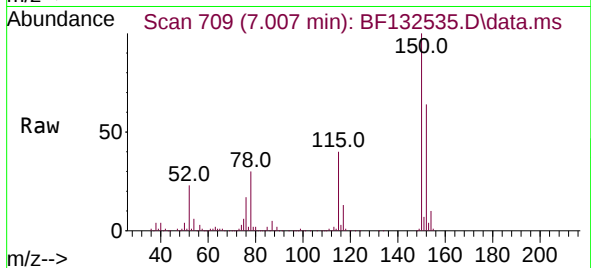
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.007 min Scan# 70
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

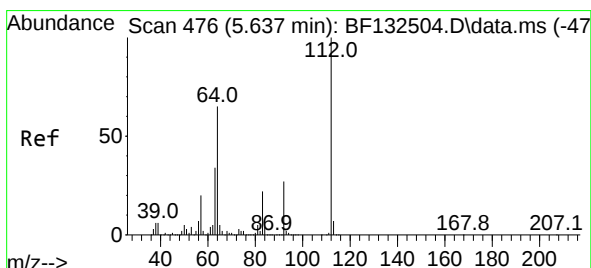
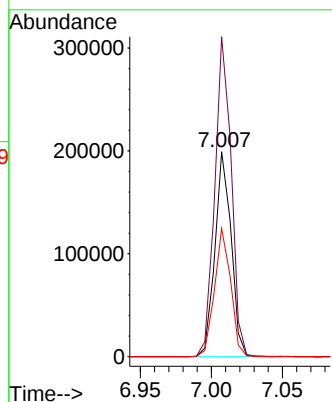
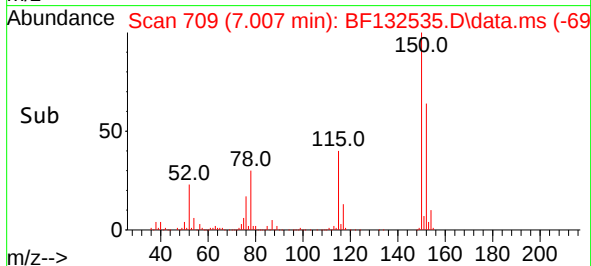
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion:152 Resp: 158078
Ion Ratio Lower Upper
152 100
150 156.2 125.4 188.2
115 62.5 47.8 71.6

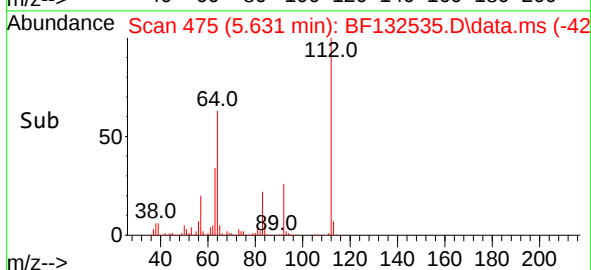
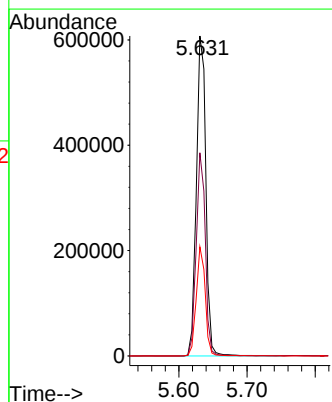
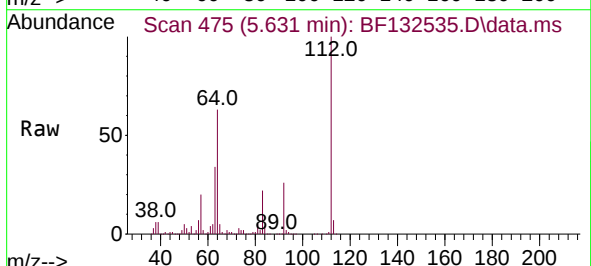
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#5
2-Fluorophenol
Concen: 60.333 ng
RT: 5.631 min Scan# 475
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

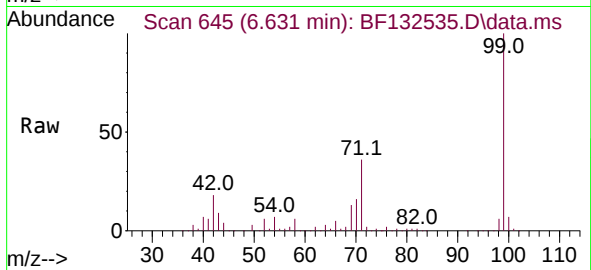
Tgt Ion:112 Resp: 587642
Ion Ratio Lower Upper
112 100
64 63.5 51.6 77.4
63 34.1 27.4 41.2





#7
Phenol-d6
Concen: 58.088 ng
RT: 6.631 min Scan# 647
Delta R.T. -0.012 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

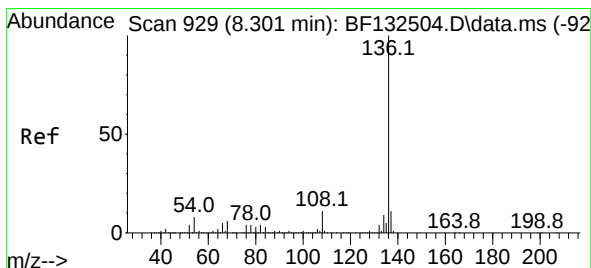
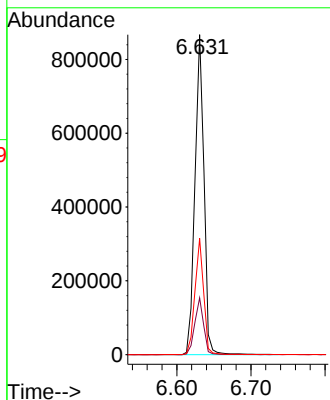
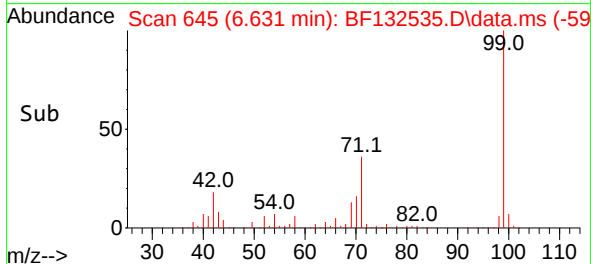
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



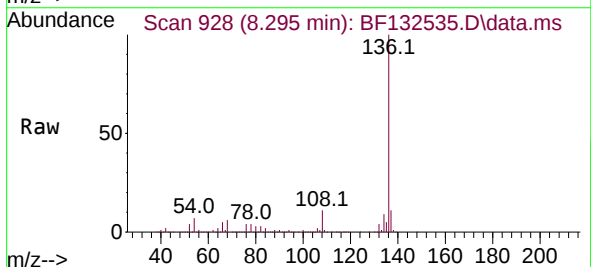
Tgt Ion: 99 Resp: 738397
Ion Ratio Lower Upper
99 100
42 17.7 13.9 20.9
71 36.3 28.5 42.7

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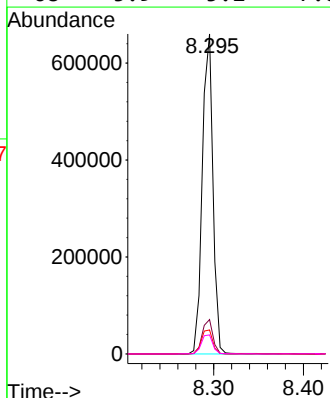
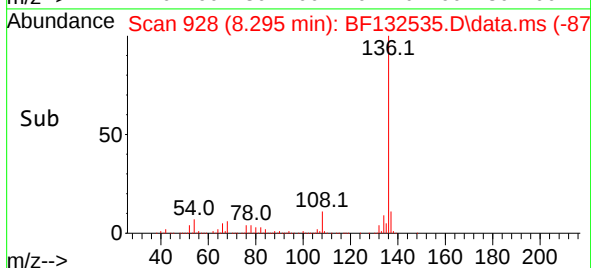
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

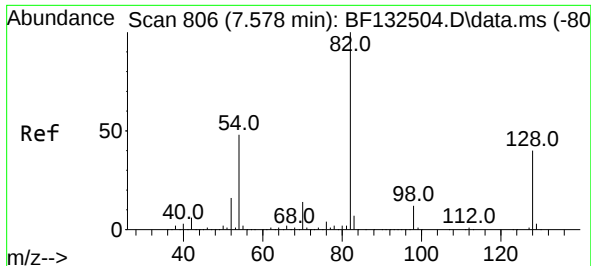


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.295 min Scan# 928
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04



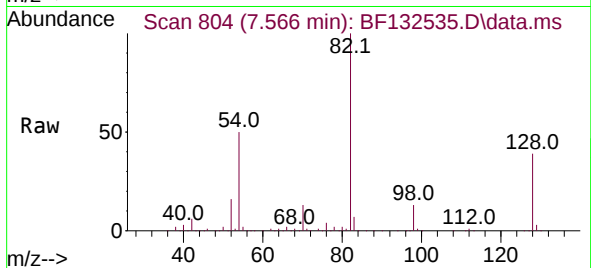
Tgt Ion:136 Resp: 542944
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 7.5 6.2 9.4
68 5.9 5.2 7.8





#23
Nitrobenzene-d5
Concen: 40.960 ng
RT: 7.566 min Scan# 804
Delta R.T. -0.012 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

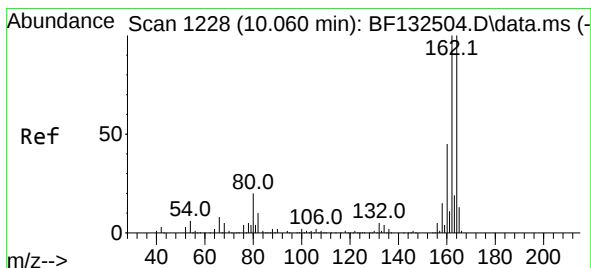
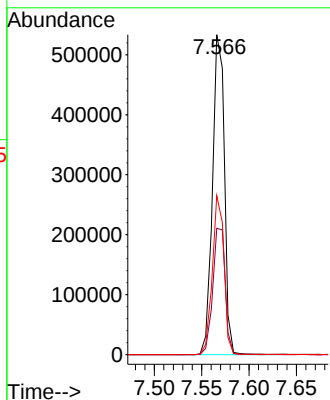
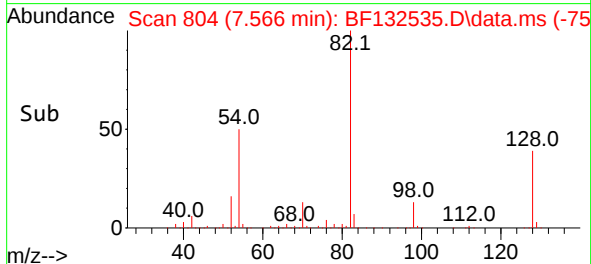
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion: 82 Resp: 468738
Ion Ratio Lower Upper
82 100
128 39.5 32.2 48.2
54 49.7 38.4 57.6

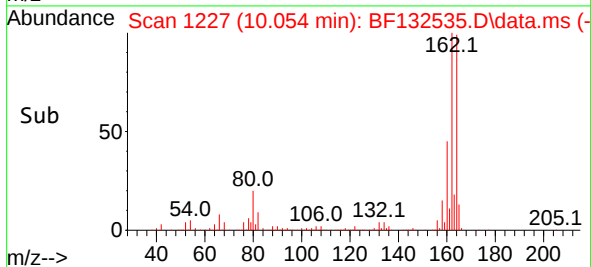
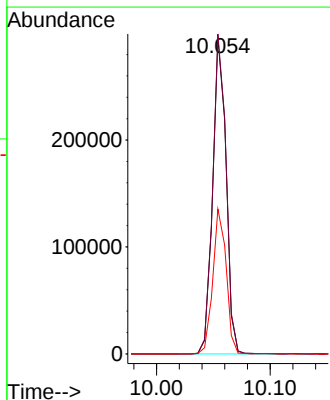
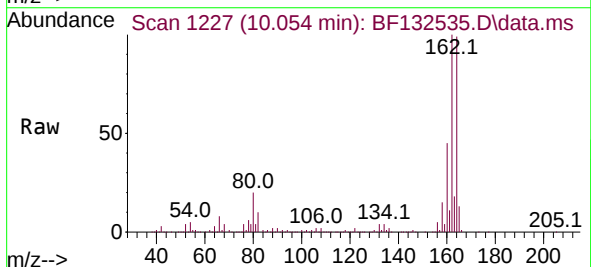
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Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.054 min Scan# 1227
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Tgt Ion:164 Resp: 242068
Ion Ratio Lower Upper
164 100
162 101.2 79.8 119.8
160 45.8 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 52.355 ng
RT: 10.848 min Scan# 1362
Delta R.T. -0.012 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Instrument :

BNA_F

ClientSampleId :

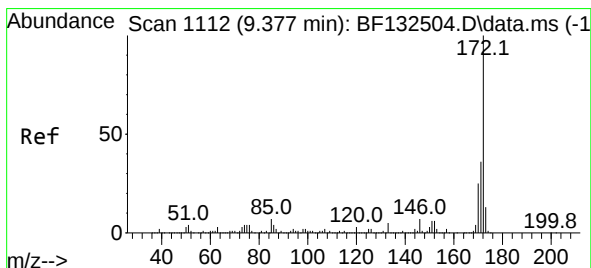
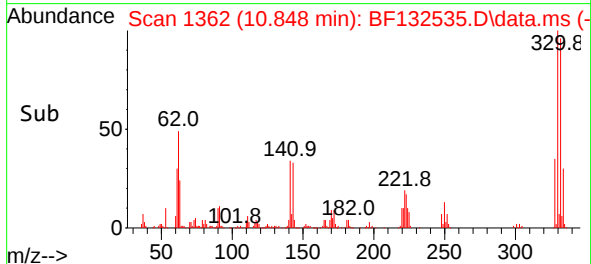
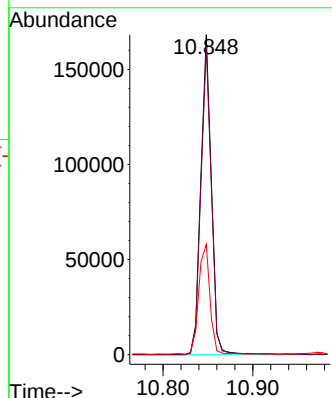
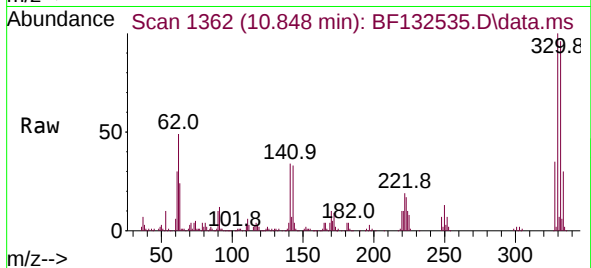
TR-05-02212023DL

Tgt Ion:330 Resp: 136865
Ion Ratio Lower Upper
330 100
332 96.0 76.2 114.4
141 36.9 28.4 42.6

Manual Integrations

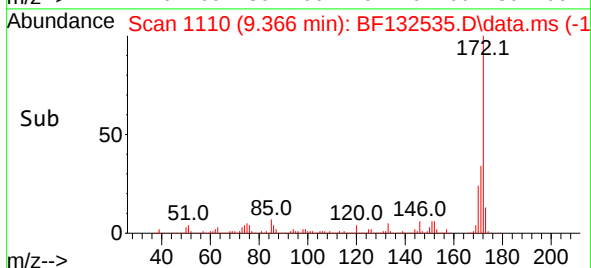
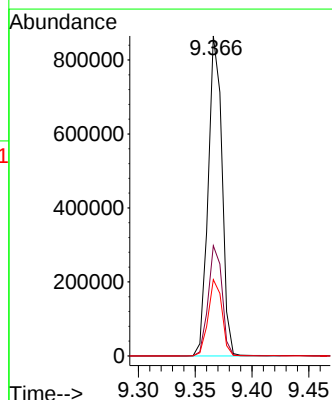
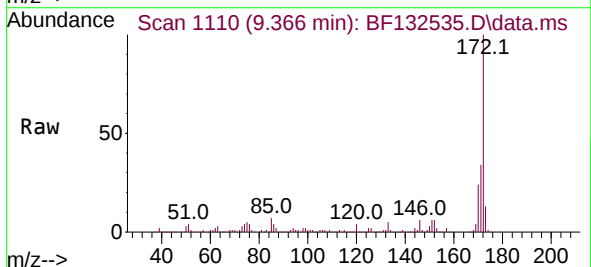
APPROVED

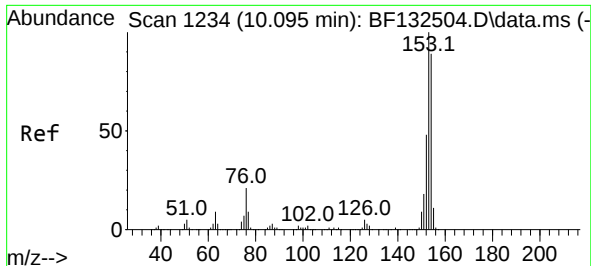
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#45
2-Fluorobiphenyl
Concen: 46.168 ng
RT: 9.366 min Scan# 1110
Delta R.T. -0.011 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

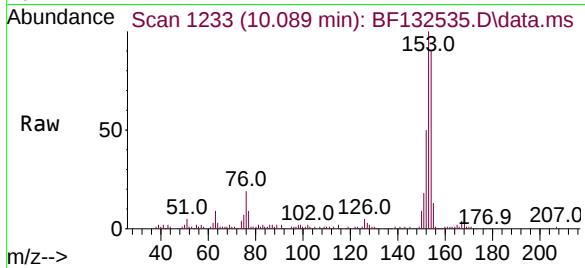
Tgt Ion:172 Resp: 733965
Ion Ratio Lower Upper
172 100
171 34.4 28.8 43.2
170 23.8 19.7 29.5





#52
Acenaphthene
Concen: 2.083 ng
RT: 10.089 min Scan# 1234
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

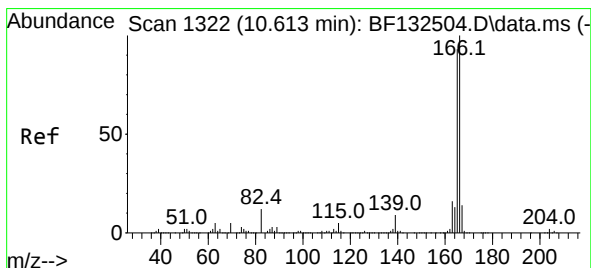
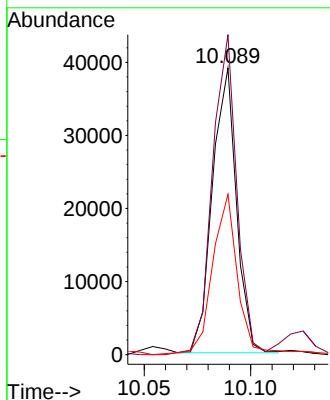
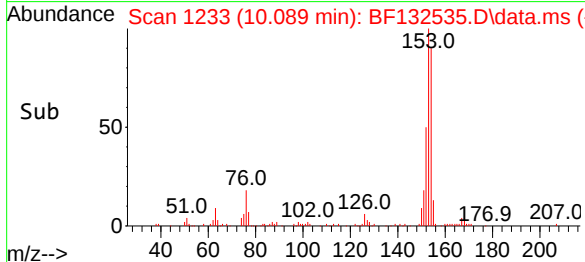
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



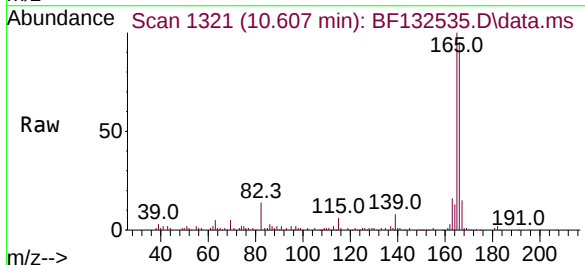
Tgt Ion:154 Resp: 30578
Ion Ratio Lower Upper
154 100
153 111.6 89.8 134.8
152 55.9 43.3 64.9

Manual Integrations
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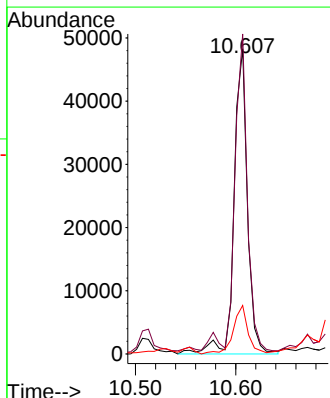
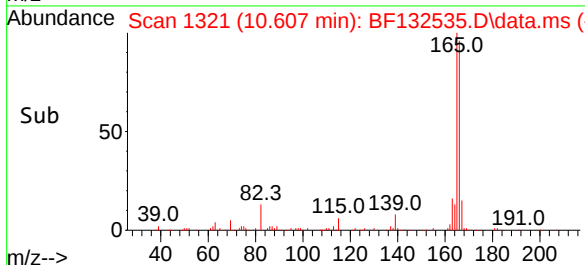
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

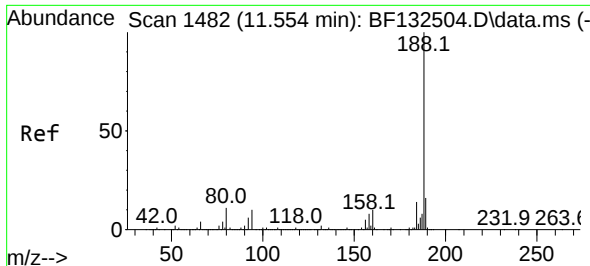


#58
Fluorene
Concen: 2.731 ng
RT: 10.607 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04



Tgt Ion:166 Resp: 44705
Ion Ratio Lower Upper
166 100
165 104.9 74.2 111.4
167 15.8 11.1 16.7





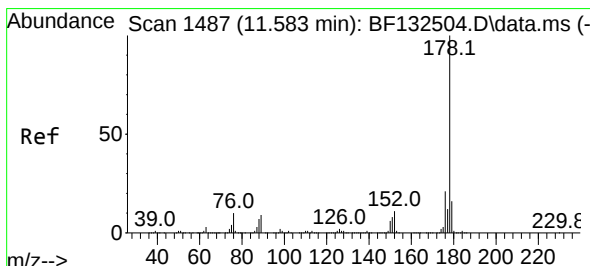
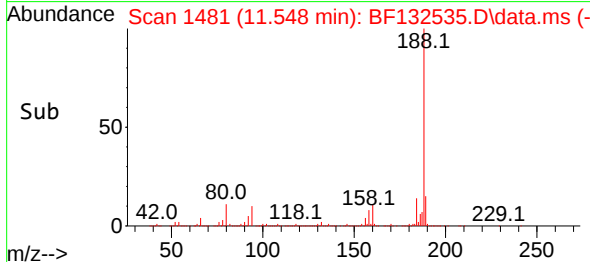
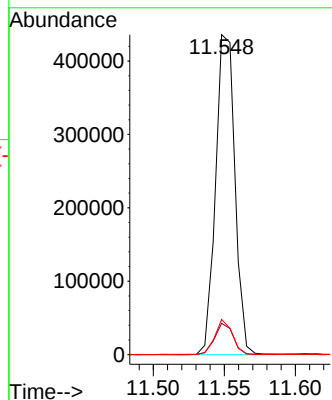
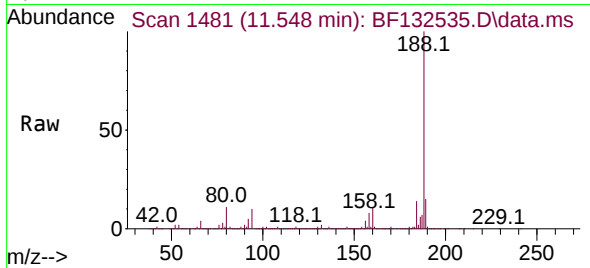
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.548 min Scan# 1481
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL

Tgt Ion:188 Resp: 412560
Ion Ratio Lower Upper
188 100
94 9.8 8.3 12.5
80 11.0 8.7 13.1

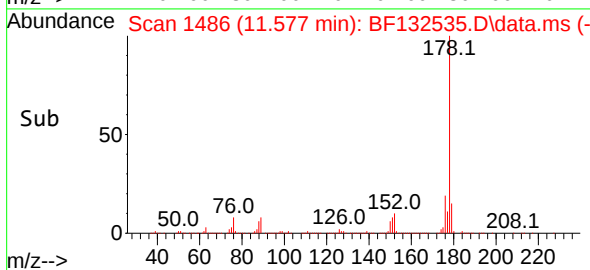
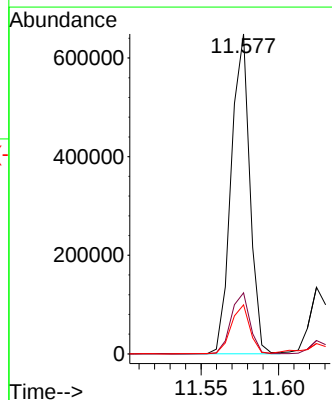
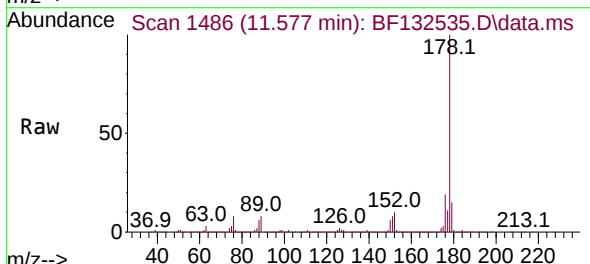
Manual Integrations
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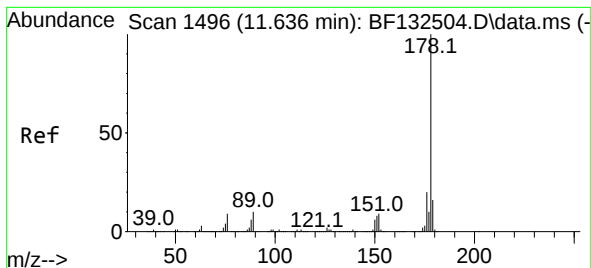
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#71
Phenanthrene
Concen: 25.455 ng
RT: 11.577 min Scan# 1486
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Tgt Ion:178 Resp: 544050
Ion Ratio Lower Upper
178 100
176 19.1 16.5 24.7
179 15.3 13.0 19.6





#72

Anthracene

Concen: 4.933 ng

RT: 11.624 min Scan# 1496

Delta R.T. -0.012 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA_F

ClientSampleId :

TR-05-02212023DL

Tgt Ion:178 Resp: 108560

Ion Ratio Lower Upper

178 100

176 20.0 15.6 23.4

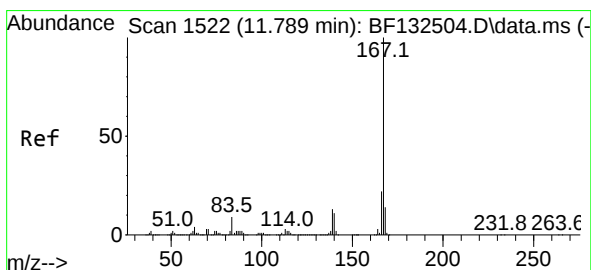
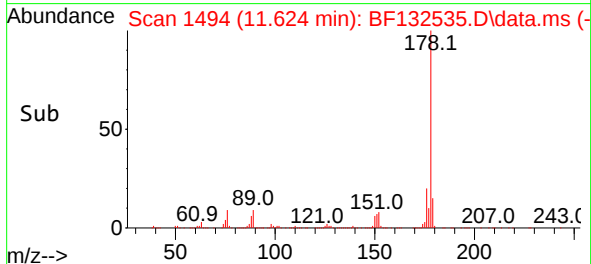
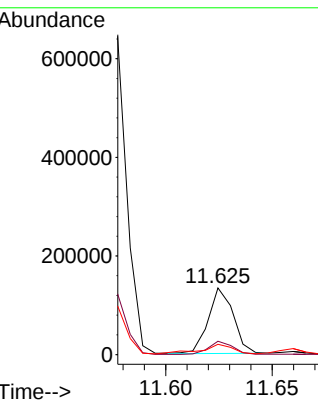
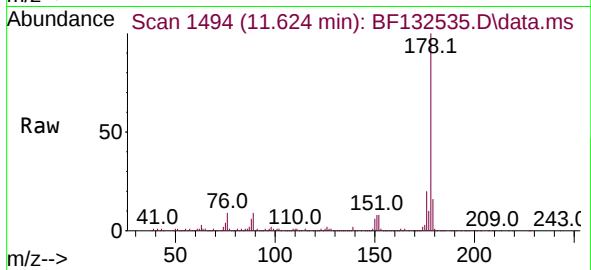
179 15.6 12.5 18.7

Manual Integrations

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Reviewed By :Christian Giraldo 02/24/2023

Supervised By :Jagrut Upadhyay 02/24/2023



#73

Carbazole

Concen: 2.982 ng

RT: 11.783 min Scan# 1521

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

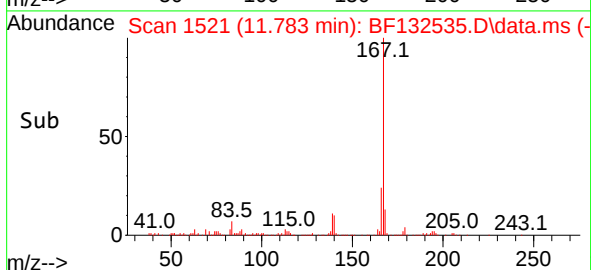
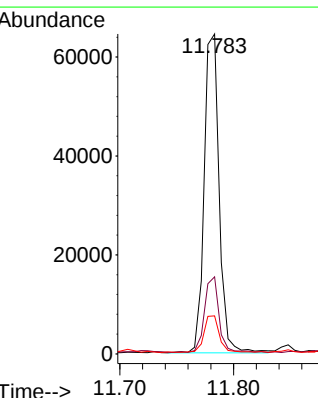
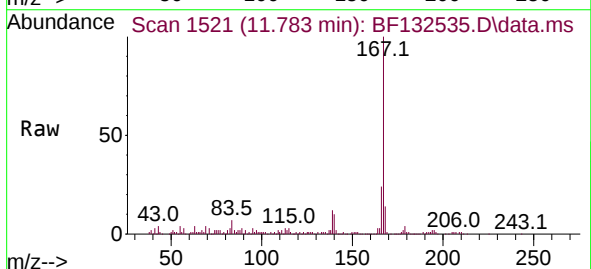
Tgt Ion:167 Resp: 59177

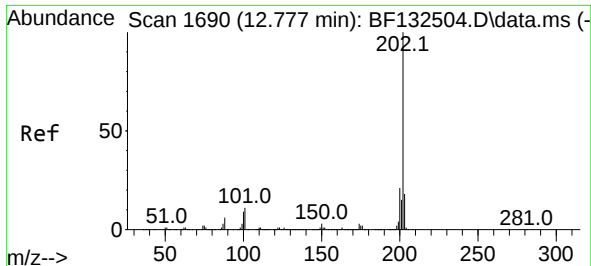
Ion Ratio Lower Upper

167 100

166 24.1 17.7 26.5

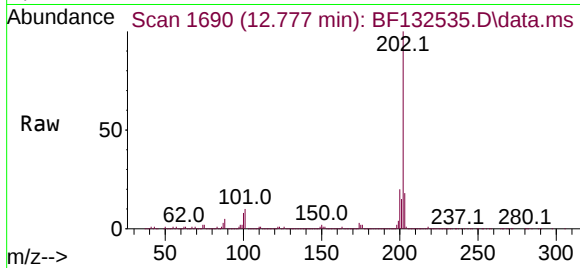
139 11.9 10.5 15.7





#75
Fluoranthene
Concen: 48.693 ng
RT: 12.777 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

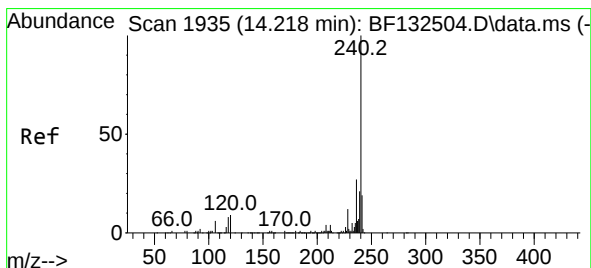
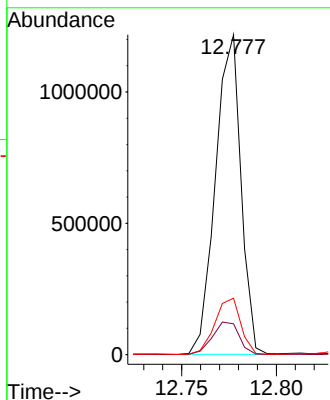
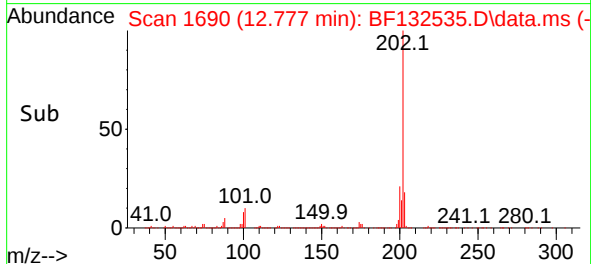
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion:202 Resp: 1137704
Ion Ratio Lower Upper
202 100
101 9.6 0.0 31.4
203 17.6 0.0 38.0

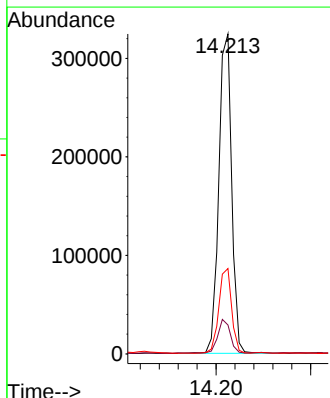
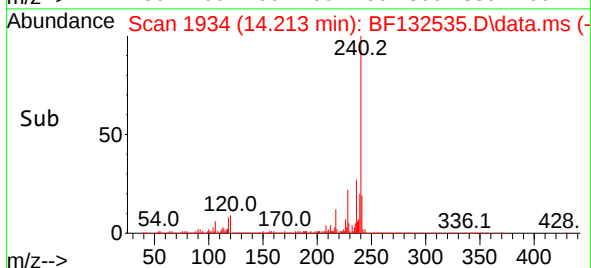
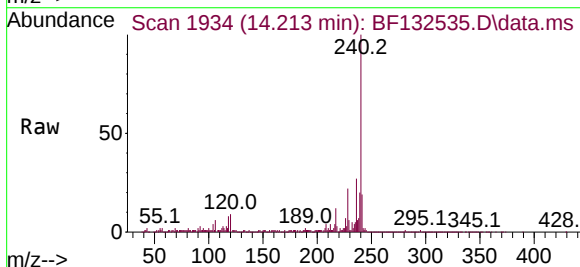
Manual Integrations
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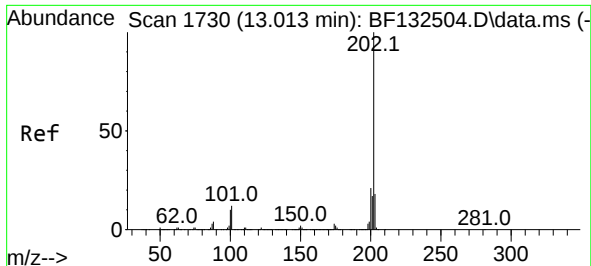
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.213 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

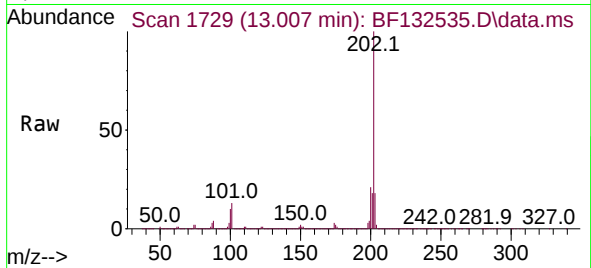
Tgt Ion:240 Resp: 304296
Ion Ratio Lower Upper
240 100
120 9.0 7.2 10.8
236 26.7 21.8 32.6





#78
Pyrene
Concen: 37.190 ng
RT: 13.007 min Scan# 1729
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

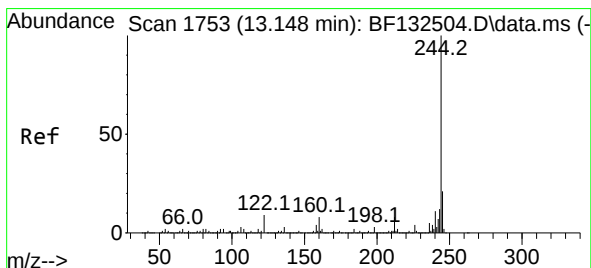
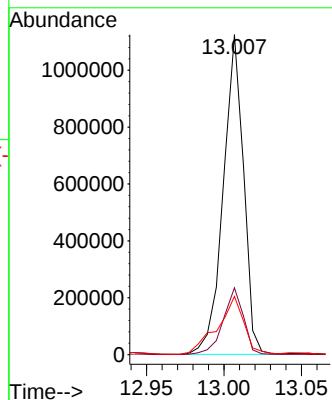
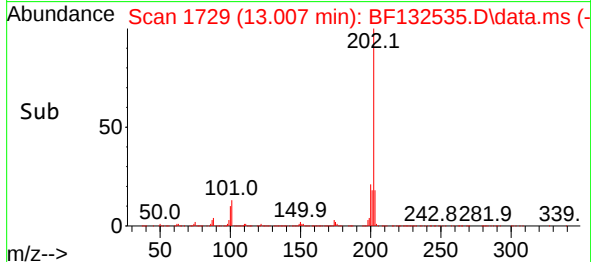
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



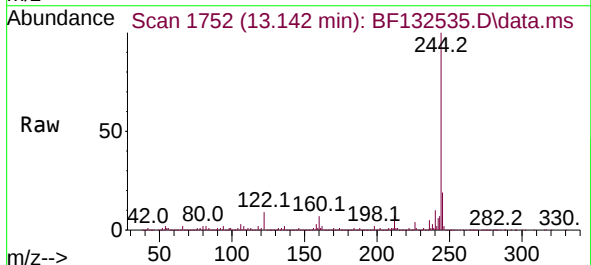
Tgt Ion:202 Resp: 102888
Ion Ratio Lower Upper
202 100
200 20.9 17.1 25.7
203 18.2 14.6 21.8

Manual Integrations
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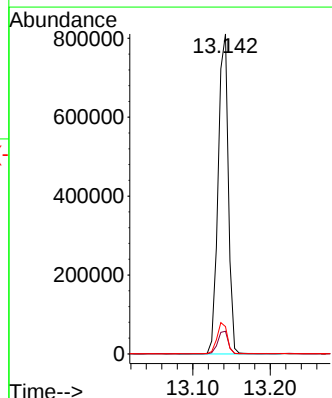
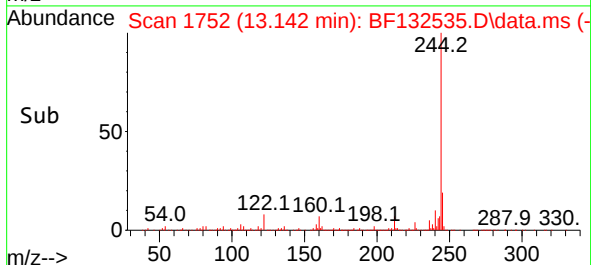
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023

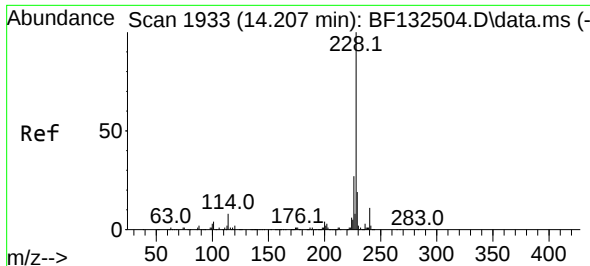


#79
Terphenyl-d14
Concen: 41.135 ng
RT: 13.142 min Scan# 1752
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04



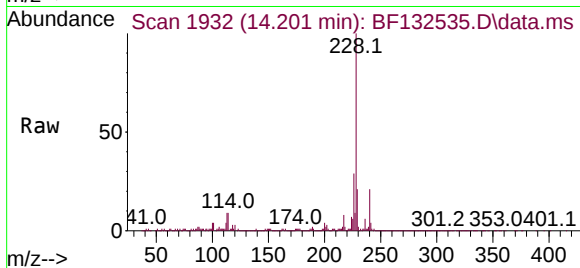
Tgt Ion:244 Resp: 740336
Ion Ratio Lower Upper
244 100
212 7.1 6.5 9.7
122 8.5 7.5 11.3





#81
Benzo(a)anthracene
Concen: 21.805 ng
RT: 14.201 min Scan# 1932
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

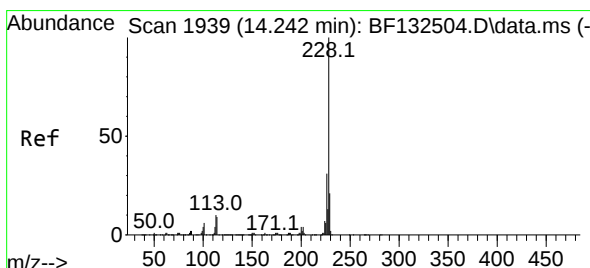
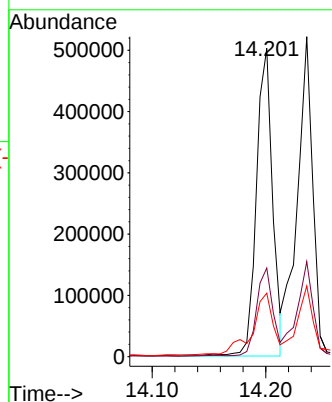
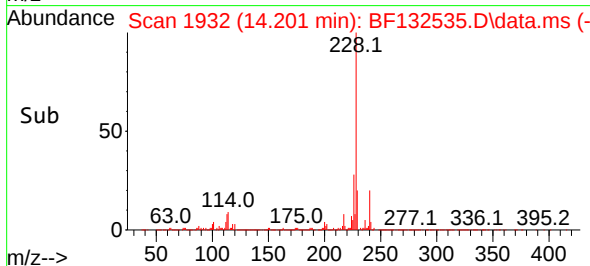
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion:228 Resp: 496453
Ion Ratio Lower Upper
228 100
226 28.8 21.7 32.5
229 20.6 15.4 23.2

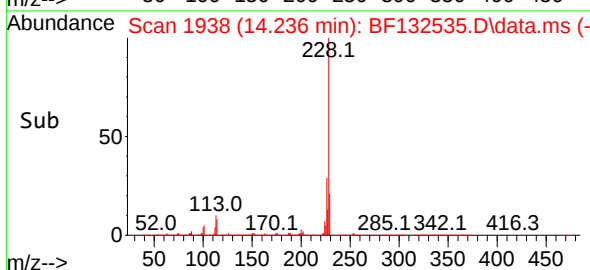
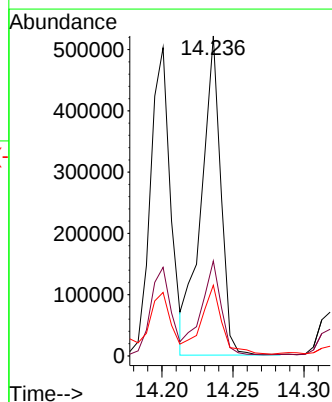
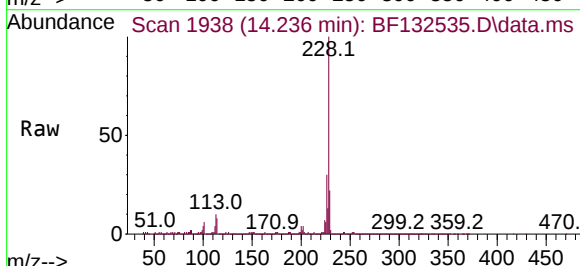
Manual Integrations
APPROVED

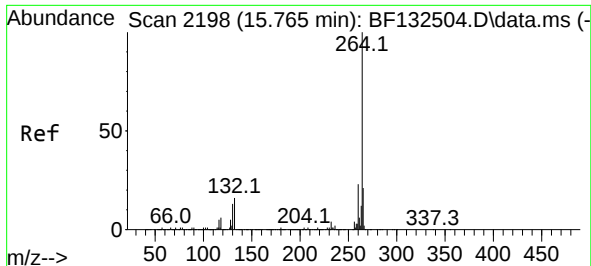
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#83
Chrysene
Concen: 23.443 ng
RT: 14.236 min Scan# 1938
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Tgt Ion:228 Resp: 499133
Ion Ratio Lower Upper
228 100
226 29.7 25.0 37.6
229 22.1 16.4 24.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.765 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

Instrument :

BNA_F

ClientSampleId :

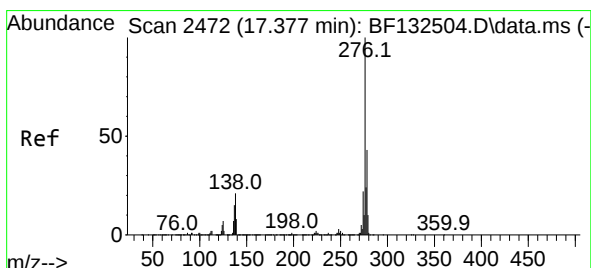
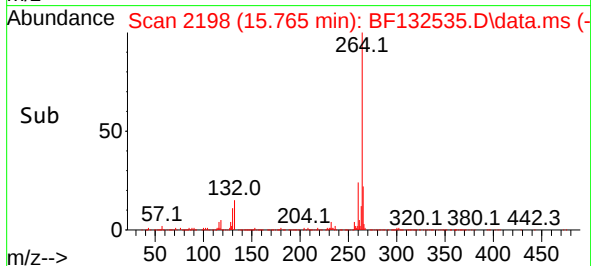
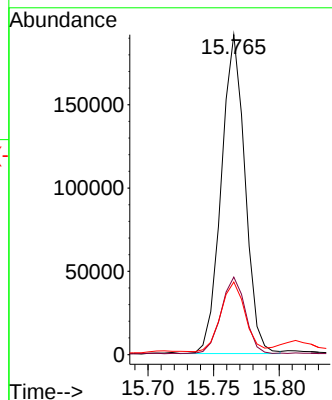
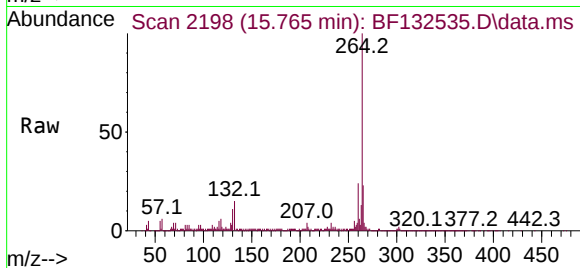
TR-05-02212023DL

Tgt Ion:264 Resp: 241008
Ion Ratio Lower Upper
264 100
260 24.2 18.8 28.2
265 22.7 17.1 25.7

Manual Integrations

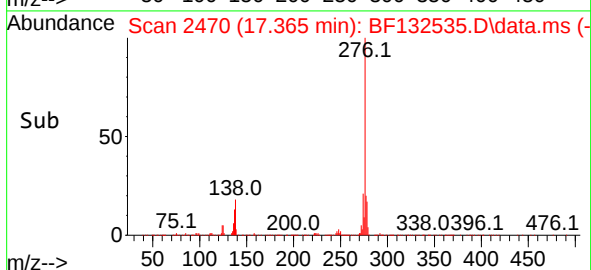
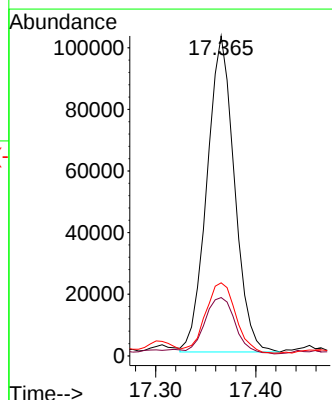
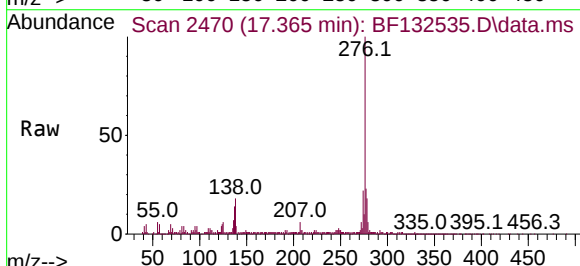
APPROVED

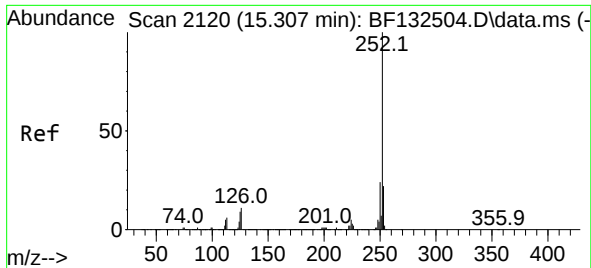
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.356 ng
RT: 17.365 min Scan# 2470
Delta R.T. -0.012 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

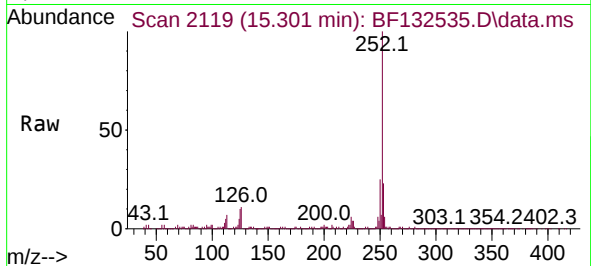
Tgt Ion:276 Resp: 195130
Ion Ratio Lower Upper
276 100
138 19.7 19.0 28.4
277 24.6 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 32.355 ng m
RT: 15.301 min Scan# 2119
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

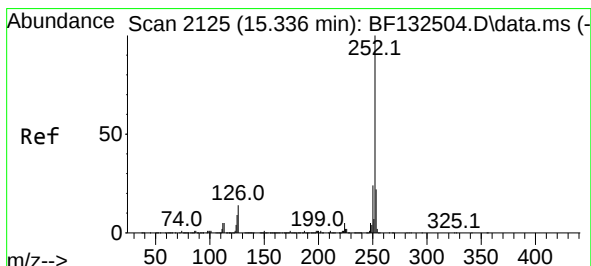
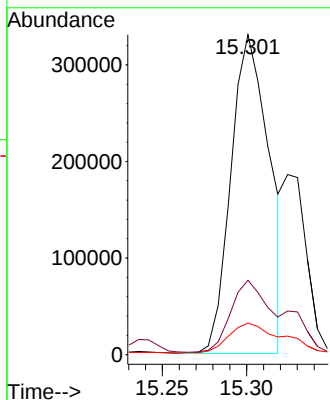
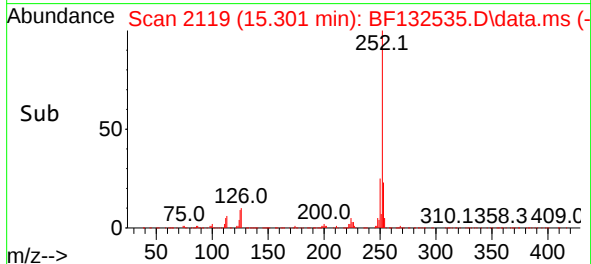
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion:252 Resp: 522562
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 9.9 7.0 10.6

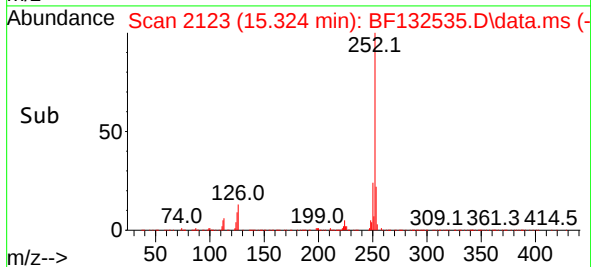
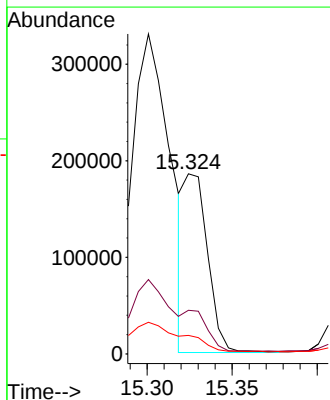
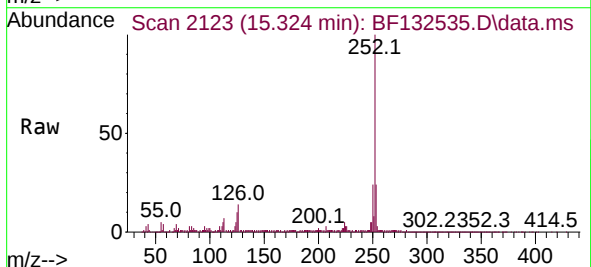
Manual Integrations
APPROVED

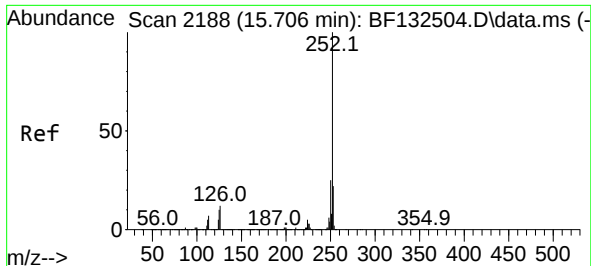
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#89
Benzo(k)fluoranthene
Concen: 11.182 ng m
RT: 15.324 min Scan# 2123
Delta R.T. -0.012 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

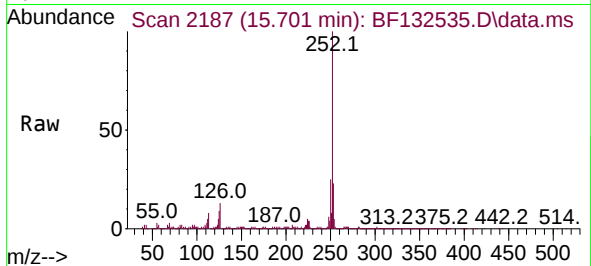
Tgt Ion:252 Resp: 176750
Ion Ratio Lower Upper
252 100
253 24.3 17.5 26.3
125 10.3 7.2 10.8





#90
Benzo(a)pyrene
Concen: 23.036 ng
RT: 15.701 min Scan# 2188
Delta R.T. -0.006 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

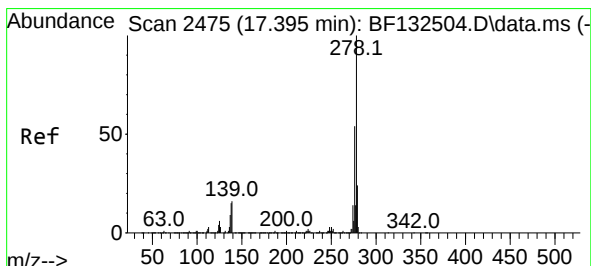
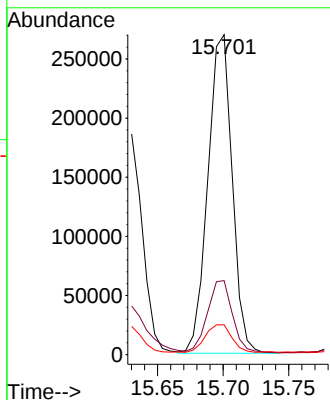
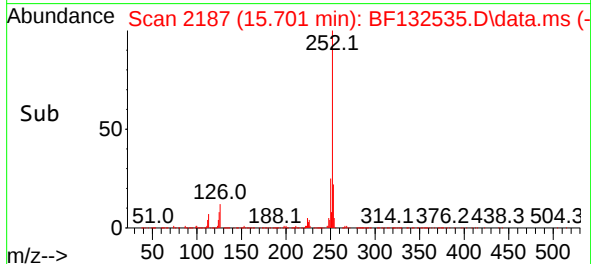
Instrument :
BNA_F
ClientSampleId :
TR-05-02212023DL



Tgt Ion:252 Resp: 348222
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 9.3 8.0 12.0

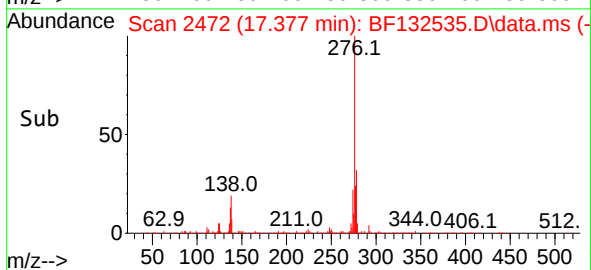
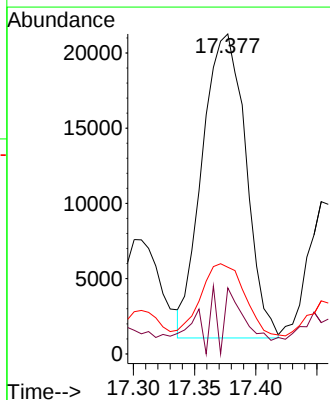
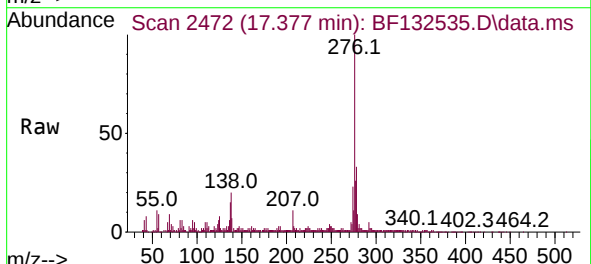
Manual Integrations
APPROVED

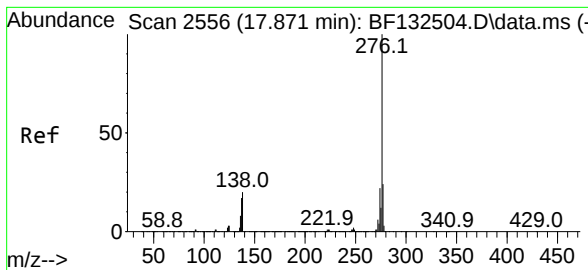
Reviewed By :Christian Giraldo 02/24/2023
Supervised By :Jagrut Upadhyay 02/24/2023



#91
Dibenzo(a,h)anthracene
Concen: 3.889 ng m
RT: 17.377 min Scan# 2472
Delta R.T. -0.018 min
Lab File: BF132535.D
Acq: 23 Feb 2023 23:04

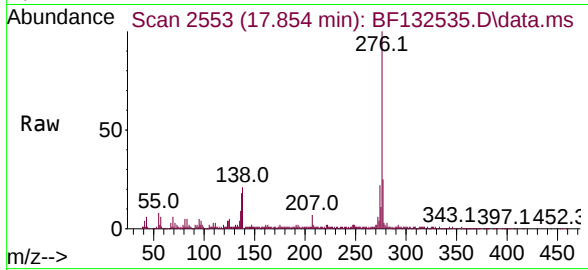
Tgt Ion:278 Resp: 50042
Ion Ratio Lower Upper
278 100
139 20.6 13.0 19.4#
279 27.1 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 13.910 ng
 RT: 17.854 min Scan# 2553
 Delta R.T. -0.017 min
 Lab File: BF132535.D
 Acq: 23 Feb 2023 23:04

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-02212023DL



Tgt Ion: 276 Resp: 185016

Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.9	28.3
138	21.2	16.2	24.4

Manual Integrations
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Reviewed By : Christian Giraldo 02/24/2023
 Supervised By : Jagrut Upadhyay 02/24/2023

