

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
 Data File : BF135992.D
 Acq On : 27 Oct 2023 19:06
 Operator : CG\JU
 Sample : 04767-02DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)DL

Quant Time: Oct 27 22:34:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 03:58:01 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	183947	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	725998	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	350283	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	537940	20.000	ng	0.00
76) Chrysene-d12	14.009	240	362135	20.000	ng	0.00
86) Perylene-d12	15.498	264	338022	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	564038	47.349	ng	0.00
7) Phenol-d6	6.451	99	690804	46.580	ng	0.00
23) Nitrobenzene-d5	7.381	82	387475	40.285	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	143008	46.643	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	749607	34.267	ng	0.00
79) Terphenyl-d14	12.951	244	544449	25.119	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	159080	4.532	ng	98
38) 1-Methylnaphthalene	8.916	142	83309	3.839	ng	100
49) Acenaphthylene	9.722	152	186700	6.028	ng	98
52) Acenaphthene	9.892	154	74252	3.741	ng	98
55) Dibenzofuran	10.069	168	161805	5.643	ng	97
58) Fluorene	10.410	166	79376	3.700	ng	99
71) Phenanthrene	11.380	178	1237706	45.477	ng	100
72) Anthracene	11.427	178	481754	17.288	ng	98
73) Carbazole	11.580	167	58911	2.370	ng	98
75) Fluoranthene	12.574	202	1230850	42.988	ng	97
78) Pyrene	12.804	202	1211385	39.840	ng	100
81) Benzo(a)anthracene	14.004	228	656356	26.656	ng	95
83) Chrysene	14.039	228	564781	23.550	ng	98
87) Indeno(1,2,3-cd)pyrene	17.003	276	155770	8.127	ng	96
88) Benzo(b)fluoranthene	15.062	252	599058m	29.779	ng	
89) Benzo(k)fluoranthene	15.086	252	200509m	10.149	ng	
90) Benzo(a)pyrene	15.433	252	435427	23.486	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	44229	2.698	ng	92
92) Benzo(g,h,i)perylene	17.456	276	141504	10.755	ng	99

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

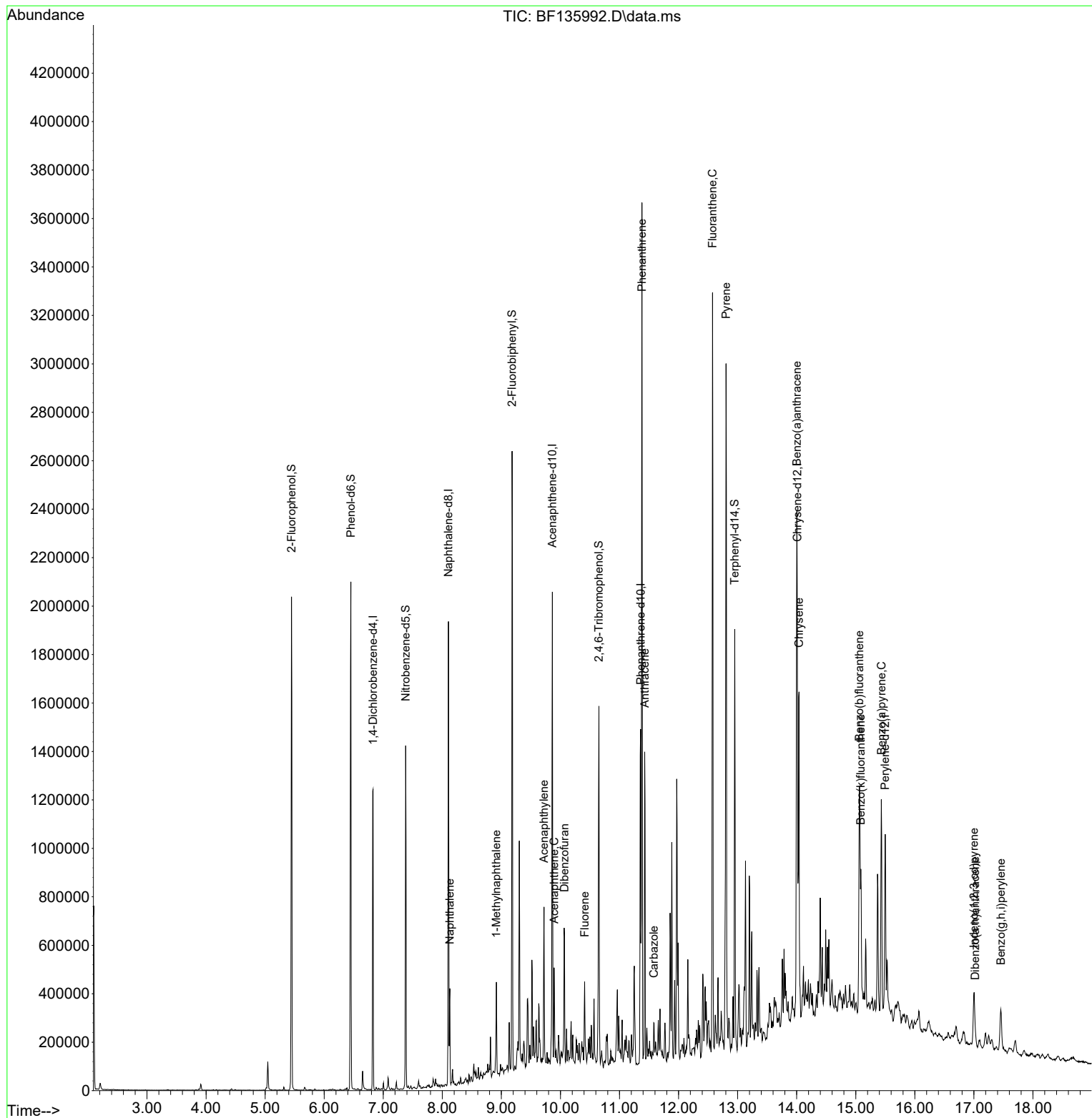
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
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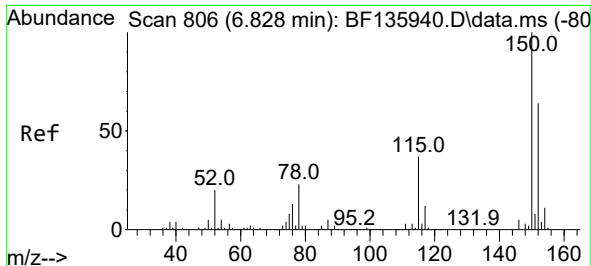
Instrument :
 BNA_F
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 E-1(0-5)DL

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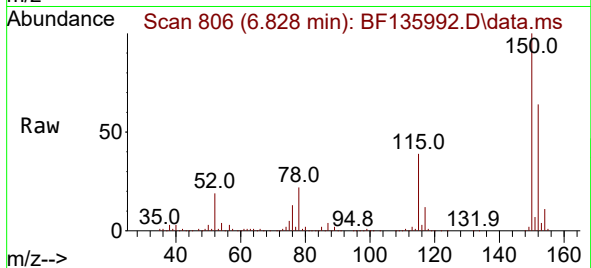
Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

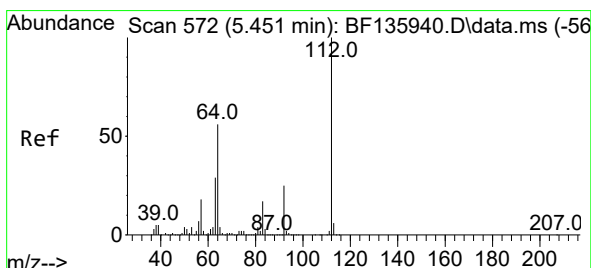
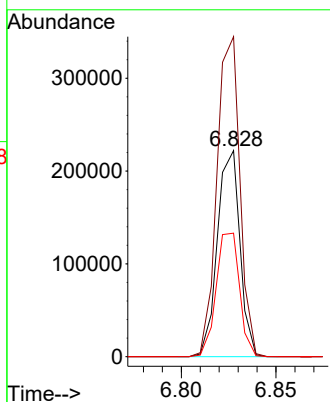
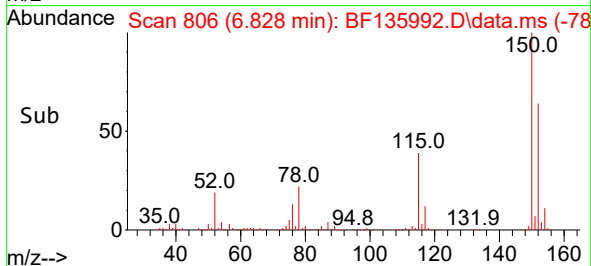
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BNA_F
ClientSampleId :
E-1(0-5)DL



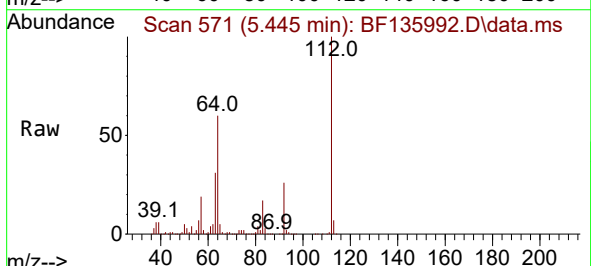
Tgt Ion:152 Resp: 18394
Ion Ratio Lower Upper
152 100
150 155.3 124.6 186.8
115 59.9 46.6 69.8

Manual Integrations
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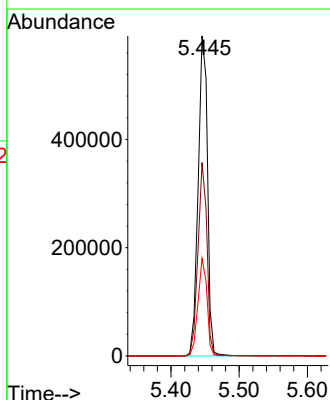
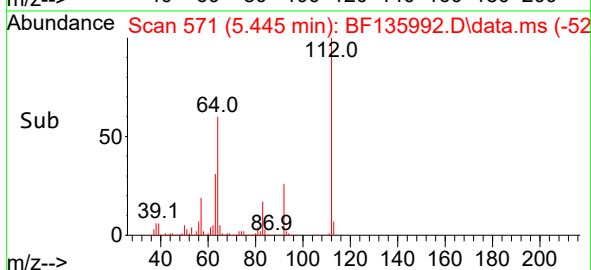
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

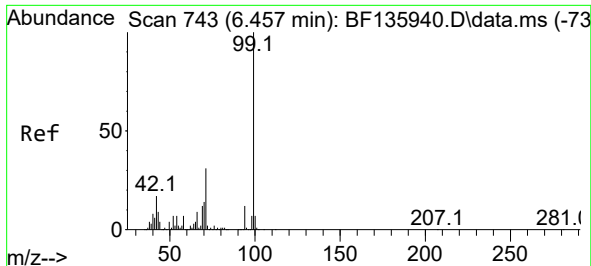


#5
2-Fluorophenol
Concen: 47.349 ng
RT: 5.445 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06



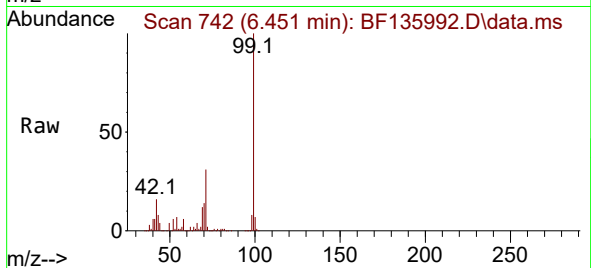
Tgt Ion:112 Resp: 564038
Ion Ratio Lower Upper
112 100
64 60.4 45.1 67.7
63 30.5 23.0 34.4





#7
Phenol-d6
Concen: 46.580 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

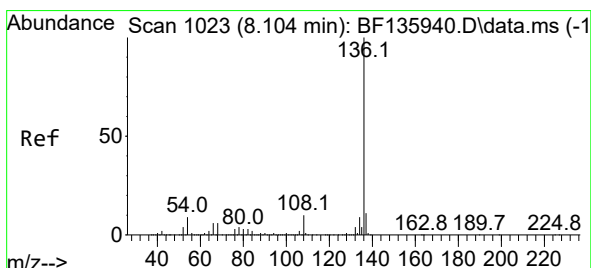
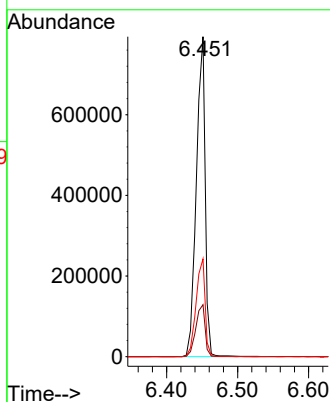
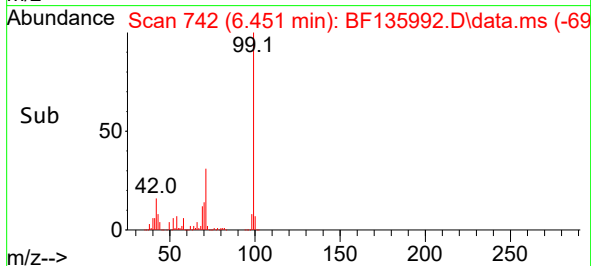
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion: 99 Resp: 690804
Ion Ratio Lower Upper
99 100
42 16.2 13.8 20.8
71 30.6 25.1 37.7

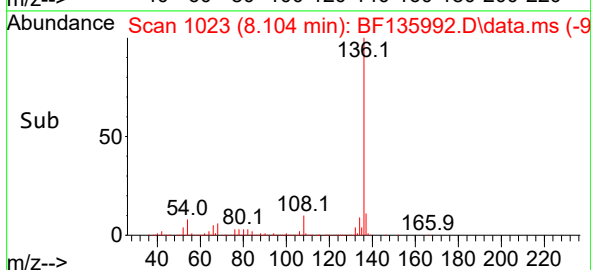
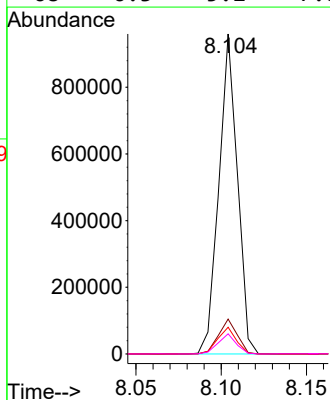
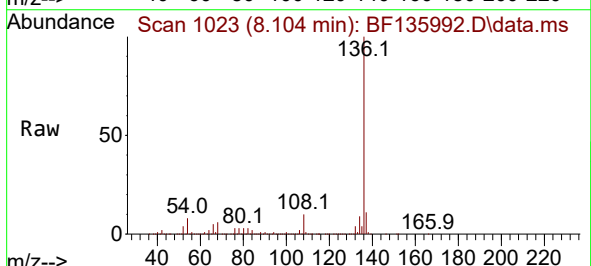
Manual Integrations
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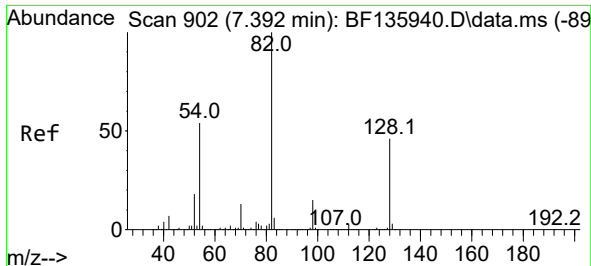
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

Tgt Ion:136 Resp: 725998
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.6
54 8.3 7.1 10.7
68 6.3 5.2 7.8





#23

Nitrobenzene-d5

Concen: 40.285 ng

RT: 7.381 min Scan# 902

Delta R.T. -0.011 min

Lab File: BF135992.D

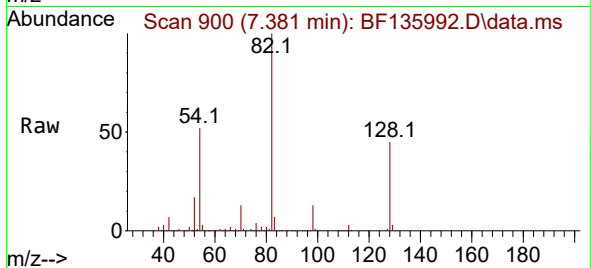
Acq: 27 Oct 2023 19:06

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)DL



Tgt Ion: 82 Resp: 387475

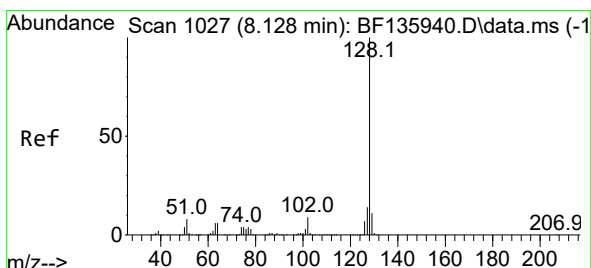
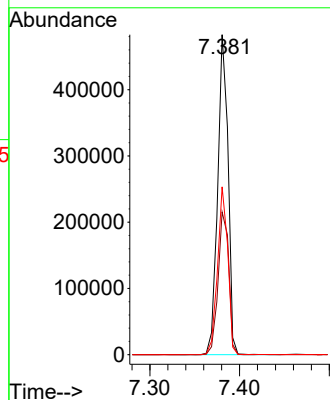
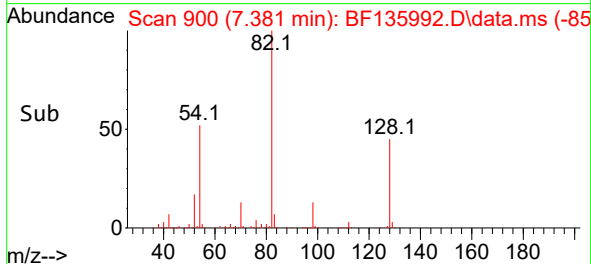
Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.8	55.2
54	52.5	43.4	65.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#31

Naphthalene

Concen: 4.532 ng

RT: 8.128 min Scan# 1027

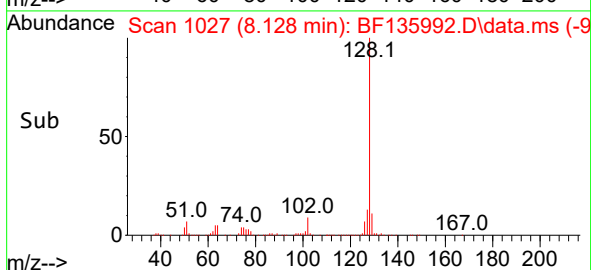
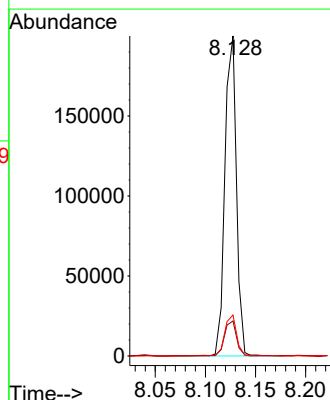
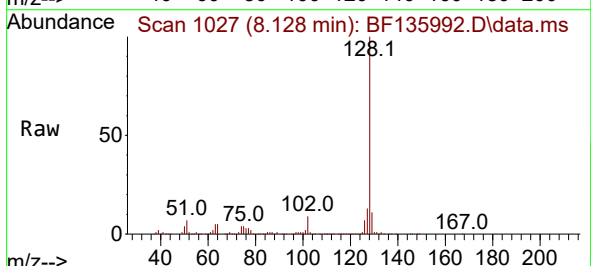
Delta R.T. -0.000 min

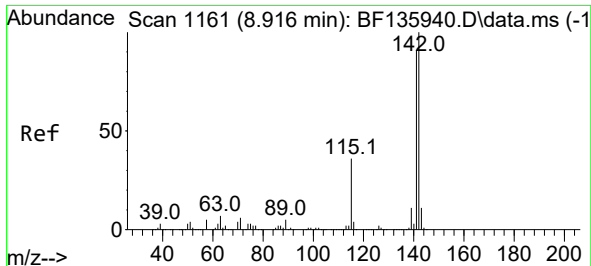
Lab File: BF135992.D

Acq: 27 Oct 2023 19:06

Tgt Ion:128 Resp: 159080

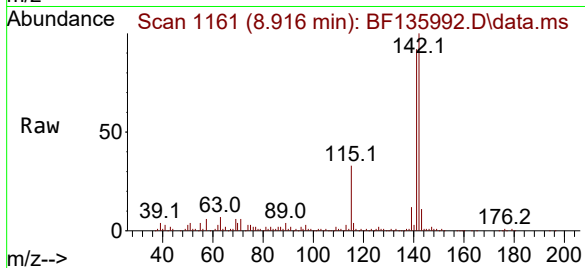
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	12.8	10.9	16.3





#38
1-Methylnaphthalene
Concen: 3.839 ng
RT: 8.916 min Scan# 1161
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

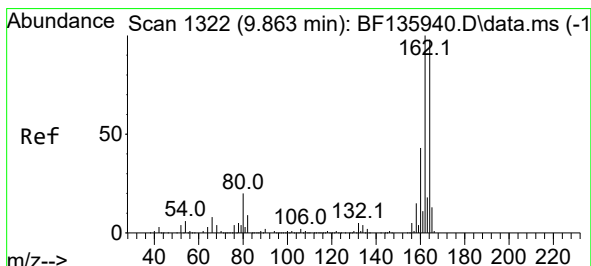
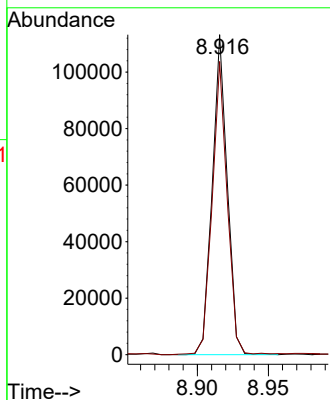
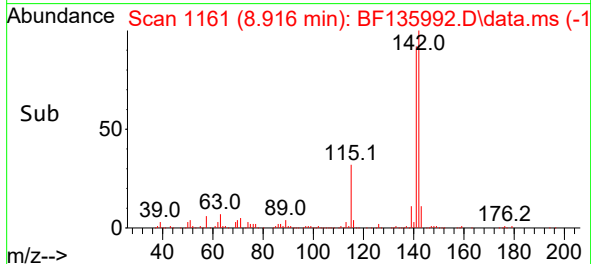
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:142 Resp: 83309
Ion Ratio Lower Upper
142 100
141 91.6 73.1 109.7

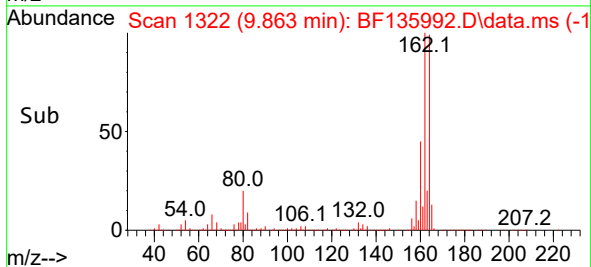
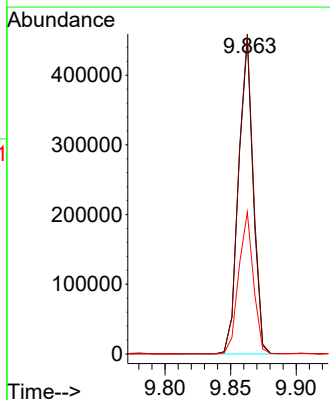
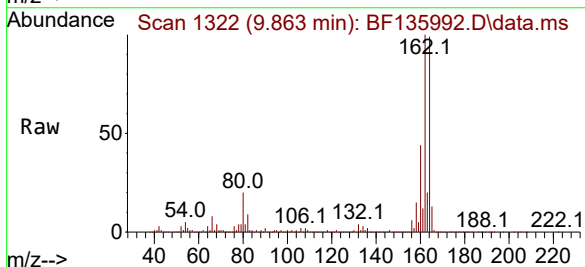
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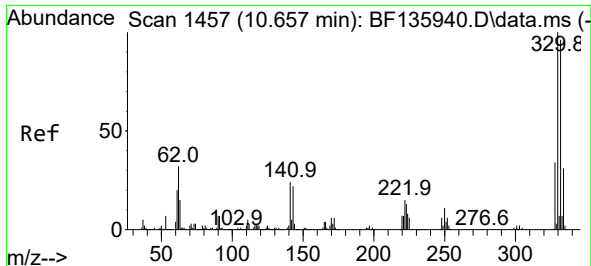
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

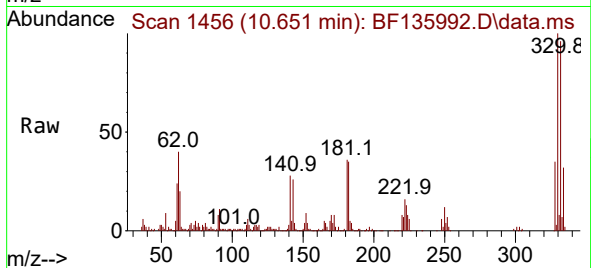
Tgt Ion:164 Resp: 350283
Ion Ratio Lower Upper
164 100
162 101.5 82.0 123.0
160 45.0 35.6 53.4





#42
2,4,6-Tribromophenol
Concen: 46.643 ng
RT: 10.651 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

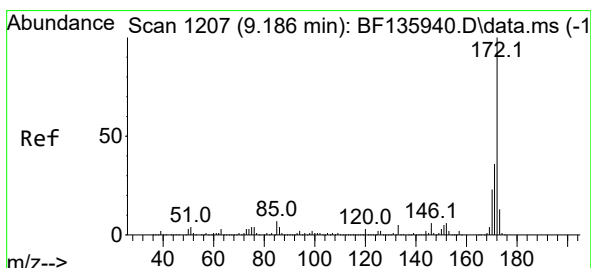
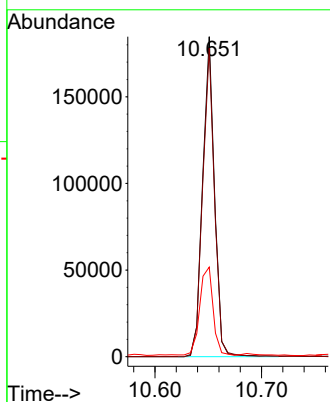
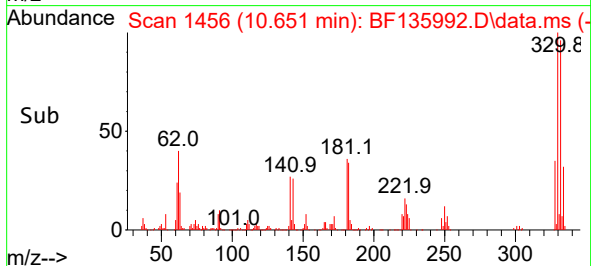
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion: 330 Resp: 143008
Ion Ratio Lower Upper
330 100
332 96.9 77.4 116.2
141 31.3 24.9 37.3

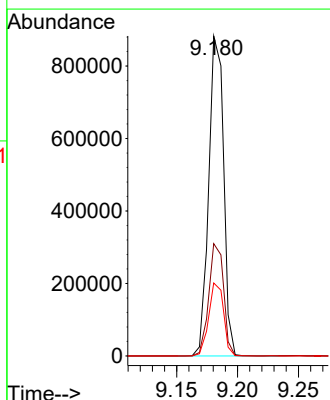
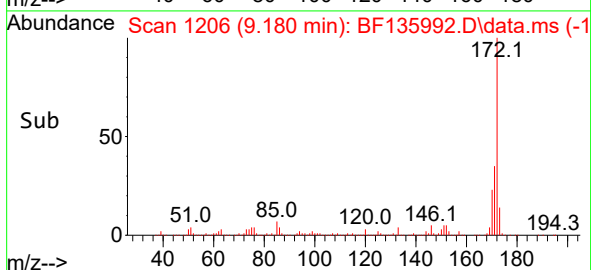
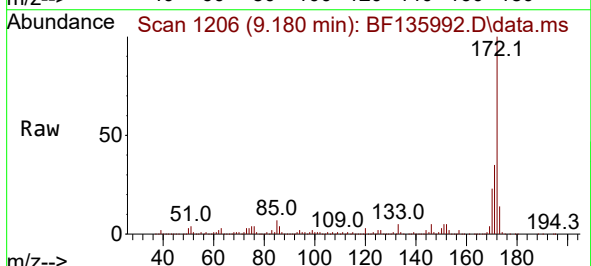
Manual Integrations
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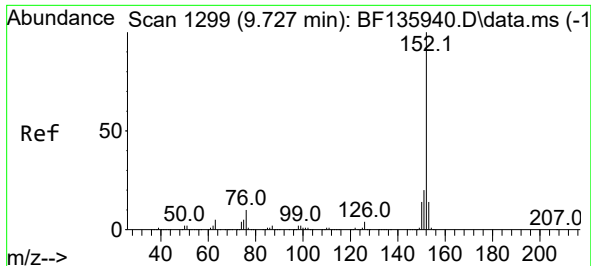
Reviewed By : Yogesh Patel 10/28/2023
Supervised By : mohammad ahmed 10/28/2023



#45
2-Fluorobiphenyl
Concen: 34.267 ng
RT: 9.180 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

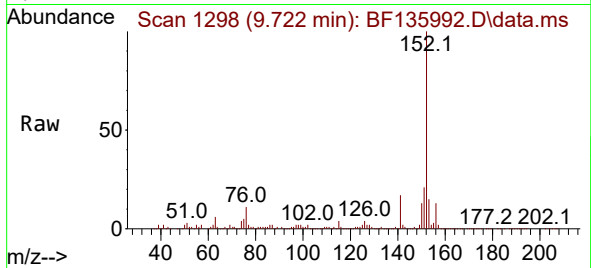
Tgt Ion: 172 Resp: 749607
Ion Ratio Lower Upper
172 100
171 35.1 28.6 43.0
170 22.8 18.6 28.0





#49
Acenaphthylene
Concen: 6.028 ng
RT: 9.722 min Scan# 1299
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

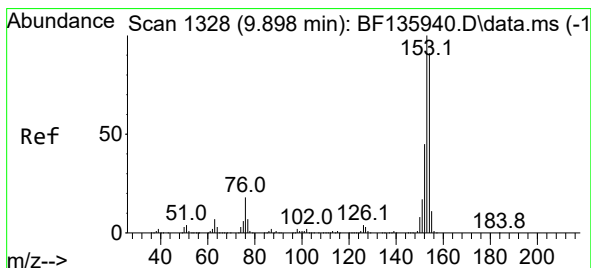
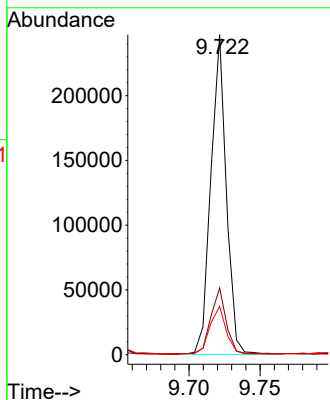
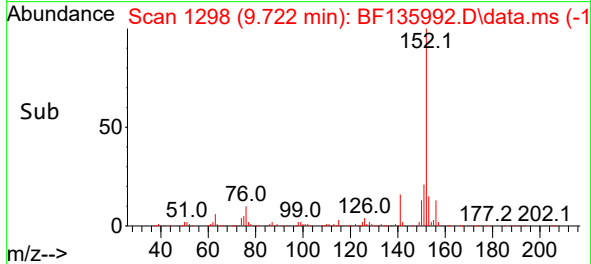
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:152 Resp: 186700
Ion Ratio Lower Upper
152 100
151 20.8 16.0 24.0
153 15.0 11.0 16.6

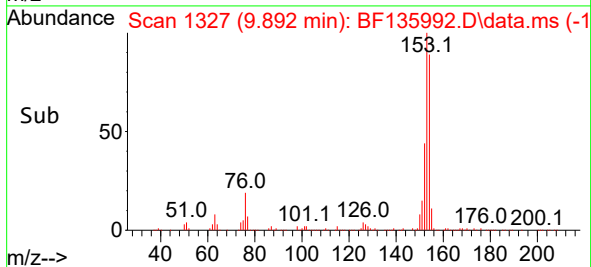
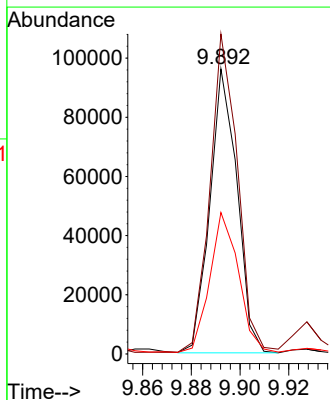
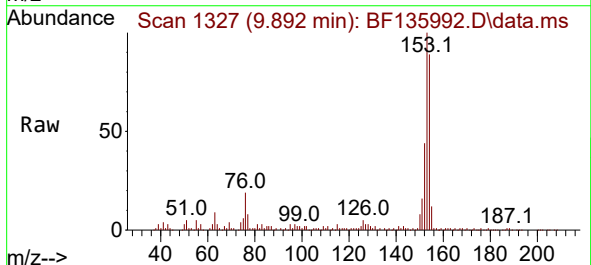
Manual Integrations
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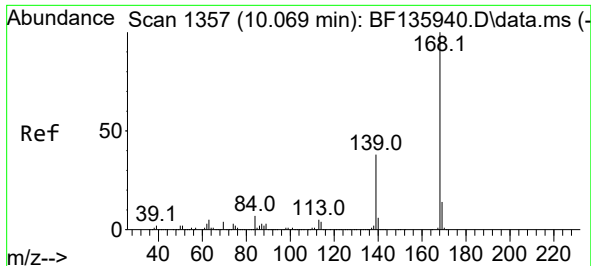
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#52
Acenaphthene
Concen: 3.741 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

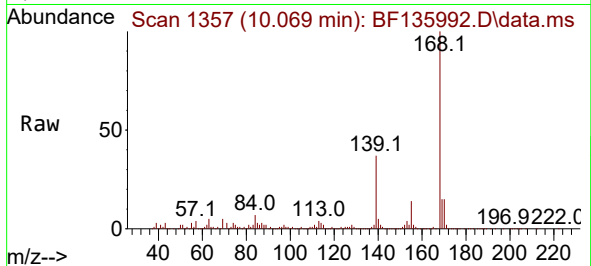
Tgt Ion:154 Resp: 74252
Ion Ratio Lower Upper
154 100
153 112.2 88.0 132.0
152 49.6 39.4 59.2





#55
Dibenzenofuran
Concen: 5.643 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

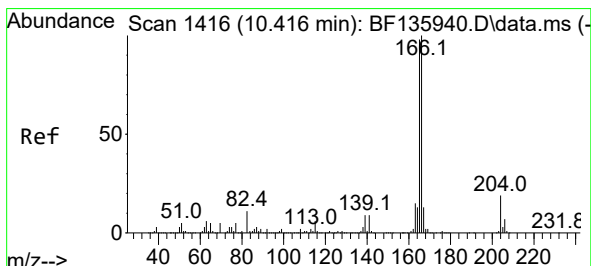
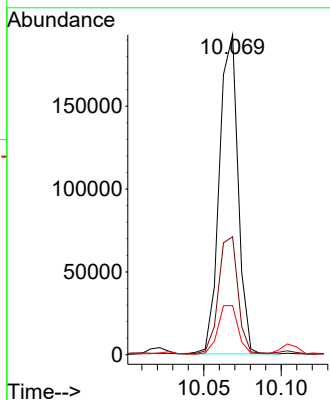
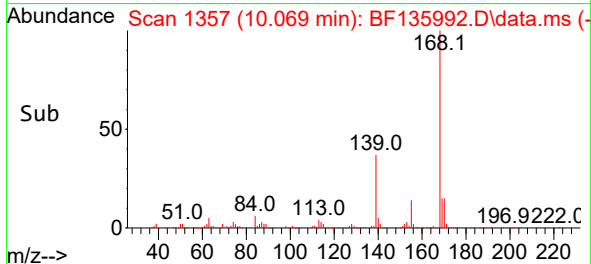
Instrument :
BNA_F
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E-1(0-5)DL



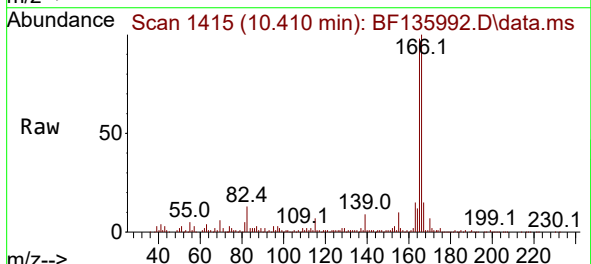
Tgt Ion:168 Resp: 16180
Ion Ratio Lower Upper
168 100
139 36.9 30.7 46.1
169 15.4 11.1 16.7

Manual Integrations
APPROVED

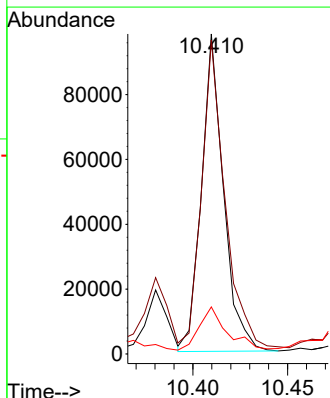
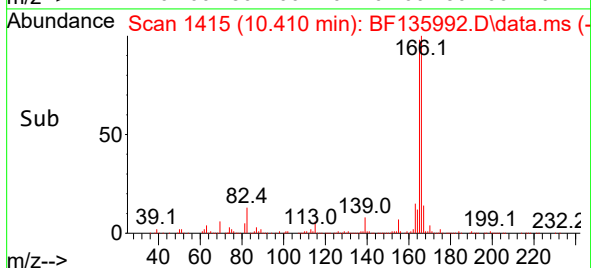
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

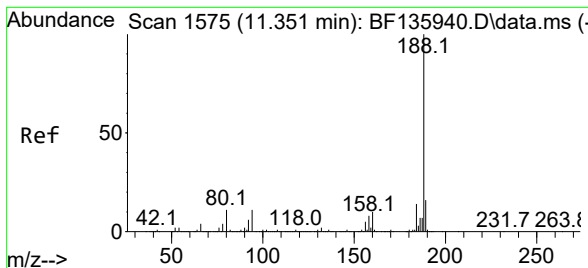


#58
Fluorene
Concen: 3.700 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06



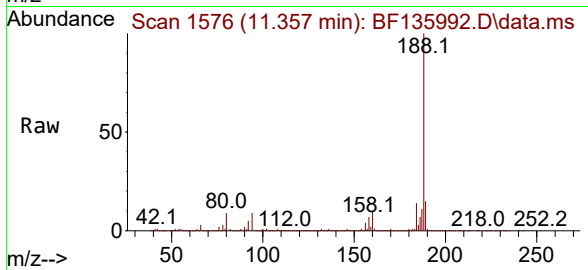
Tgt Ion:166 Resp: 79376
Ion Ratio Lower Upper
166 100
165 98.1 78.0 117.0
167 14.7 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. 0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

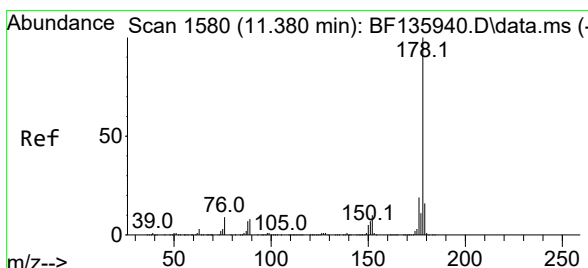
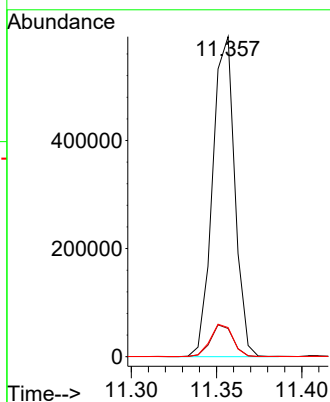
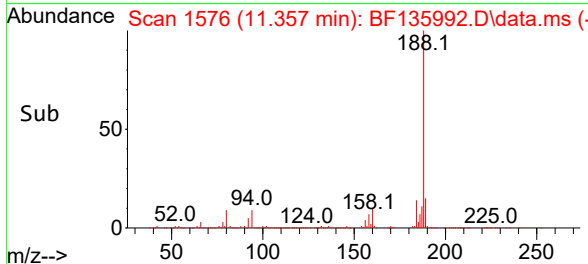
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:188 Resp: 537940
Ion Ratio Lower Upper
188 100
94 8.8 8.6 13.0
80 9.1 9.0 13.6

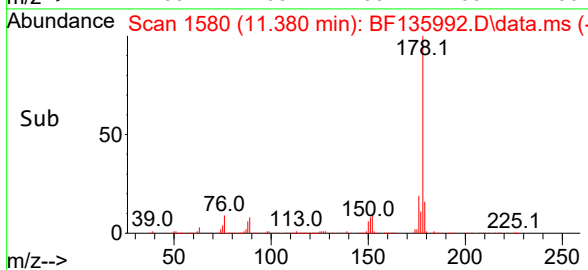
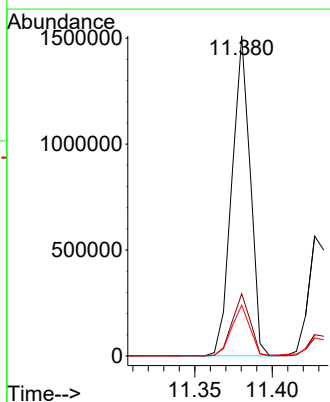
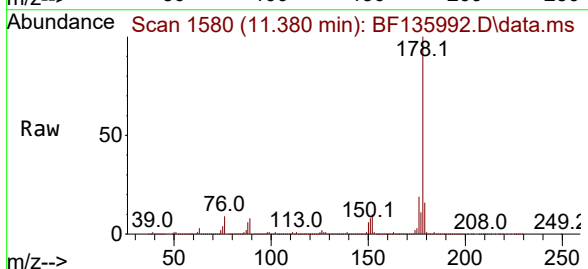
Manual Integrations
APPROVED

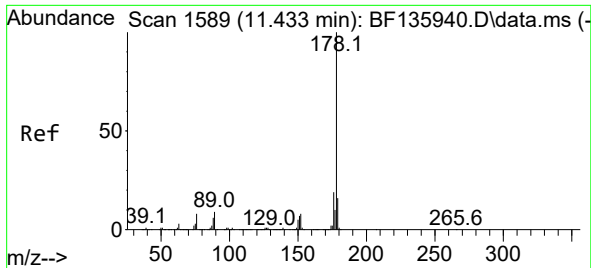
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#71
Phenanthrene
Concen: 45.477 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

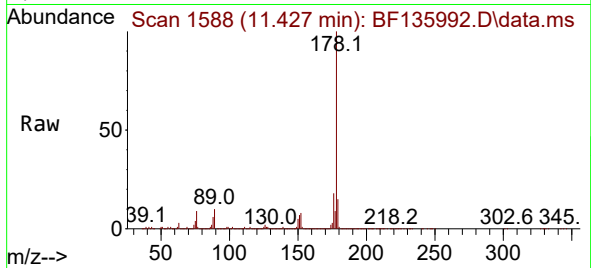
Tgt Ion:178 Resp: 1237706
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.9 12.5 18.7





#72
 Anthracene
 Concen: 17.288 ng
 RT: 11.427 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135992.D
 Acq: 27 Oct 2023 19:06

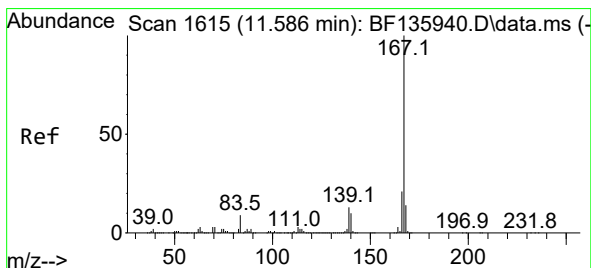
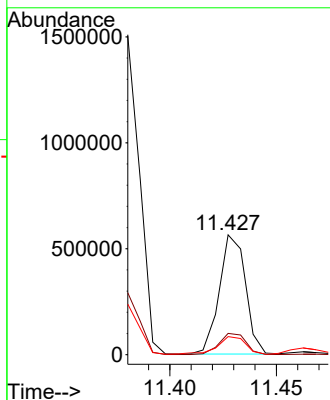
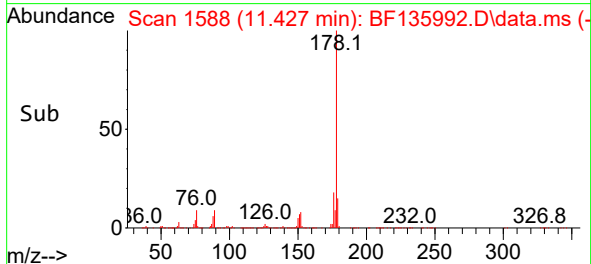
Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)DL



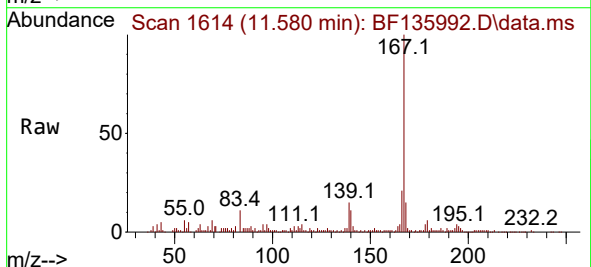
Tgt Ion:178 Resp: 481754
 Ion Ratio Lower Upper
 178 100
 176 17.8 14.9 22.3
 179 15.1 12.5 18.7

Manual Integrations
 APPROVED

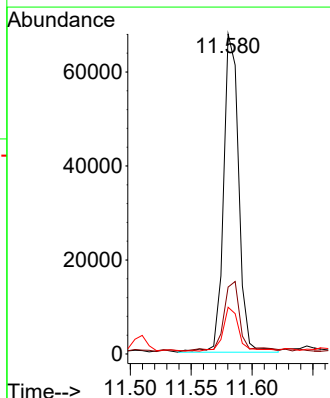
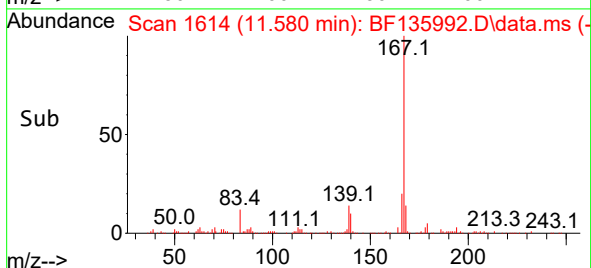
Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

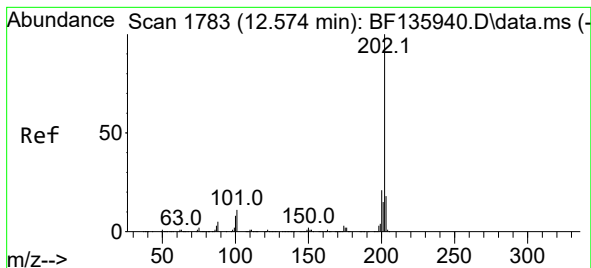


#73
 Carbazole
 Concen: 2.370 ng
 RT: 11.580 min Scan# 1614
 Delta R.T. -0.006 min
 Lab File: BF135992.D
 Acq: 27 Oct 2023 19:06



Tgt Ion:167 Resp: 58911
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.0 25.6
 139 14.6 10.4 15.6





#75

Fluoranthene

Concen: 42.988 ng

RT: 12.574 min Scan# 1783

Delta R.T. -0.000 min

Lab File: BF135992.D

Acq: 27 Oct 2023 19:06

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)DL

Tgt Ion:202 Resp: 1230850

Ion Ratio Lower Upper

202 100

101 12.4 0.0 30.6

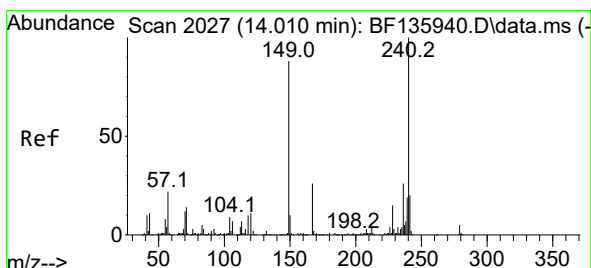
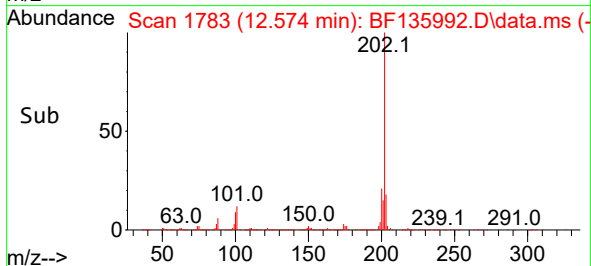
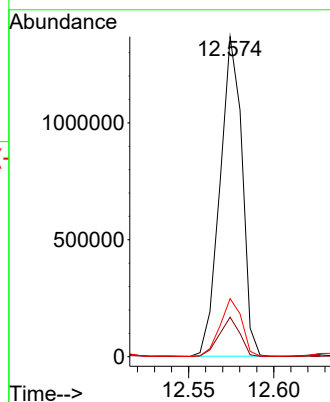
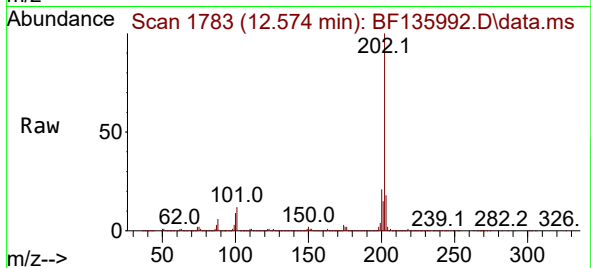
203 18.2 0.0 37.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.009 min Scan# 2027

Delta R.T. -0.000 min

Lab File: BF135992.D

Acq: 27 Oct 2023 19:06

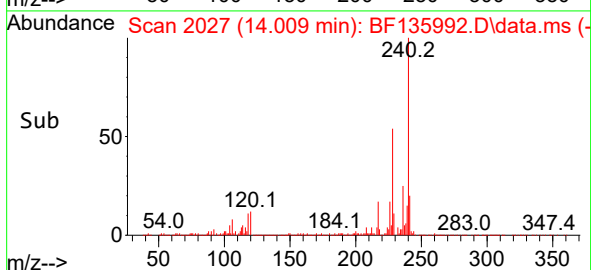
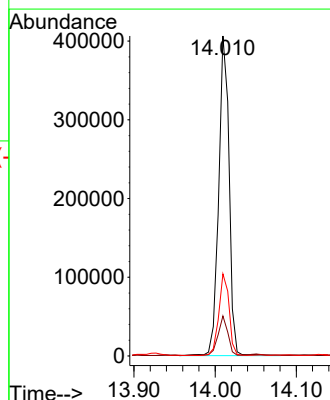
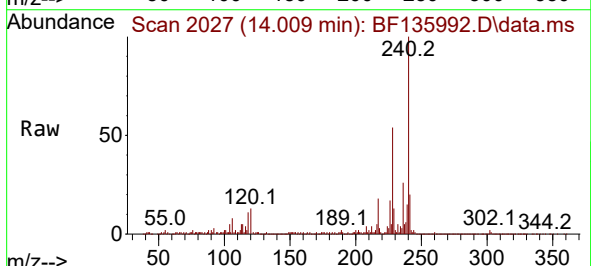
Tgt Ion:240 Resp: 362135

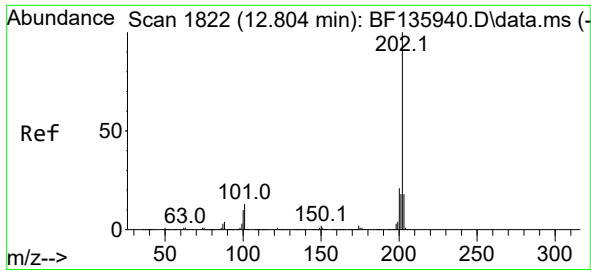
Ion Ratio Lower Upper

240 100

120 12.5 8.6 13.0

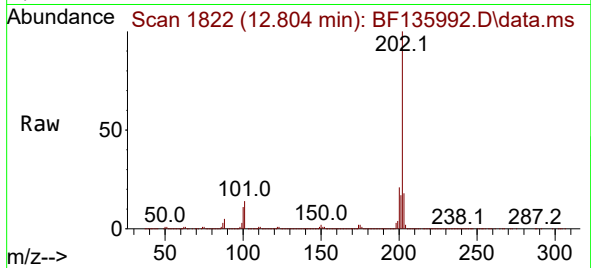
236 25.7 20.6 30.8





#78
Pyrene
Concen: 39.840 ng
RT: 12.804 min Scan# 1822
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

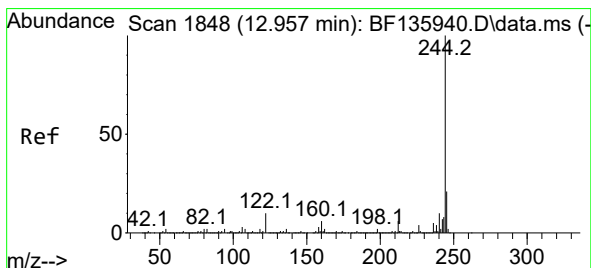
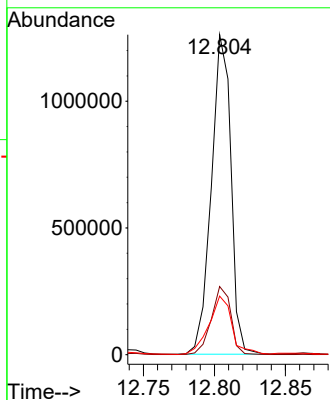
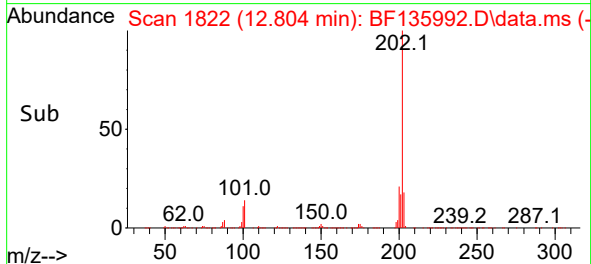
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:202 Resp: 121138
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.6
203 18.3 14.5 21.7

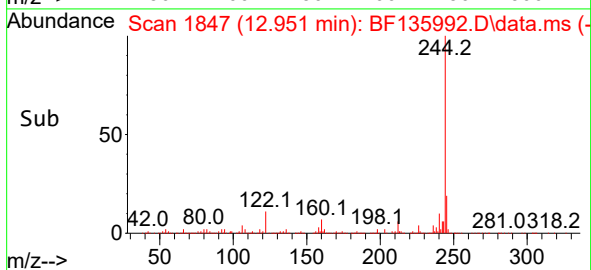
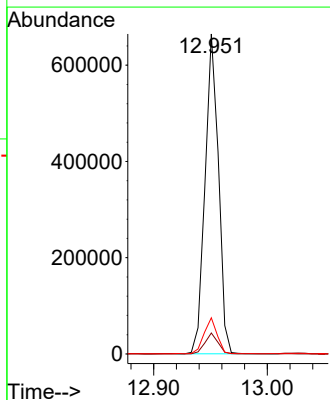
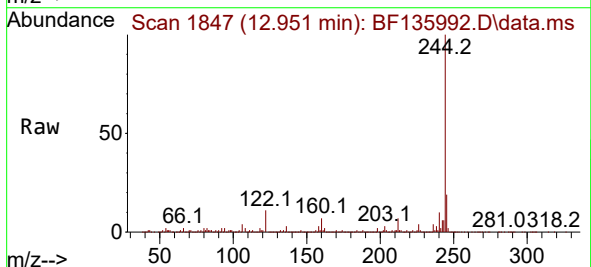
Manual Integrations
APPROVED

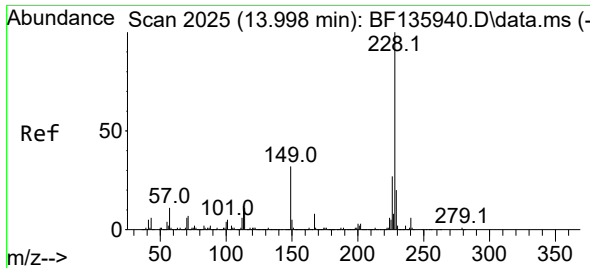
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#79
Terphenyl-d14
Concen: 25.119 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

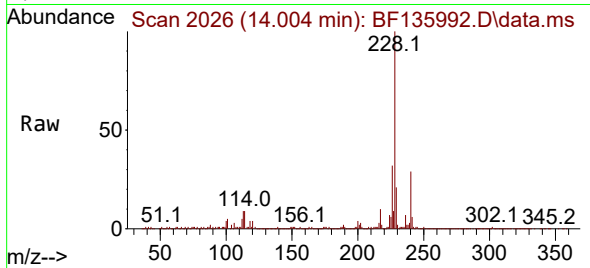
Tgt Ion:244 Resp: 544449
Ion Ratio Lower Upper
244 100
212 6.5 5.0 7.6
122 11.3 8.0 12.0





#81
Benzo(a)anthracene
Concen: 26.656 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

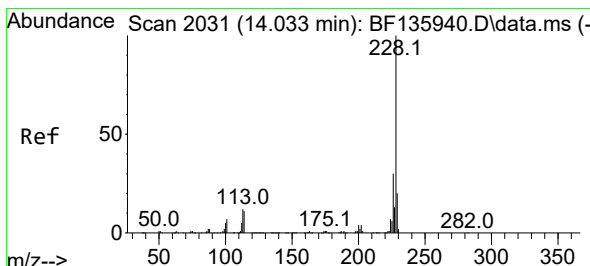
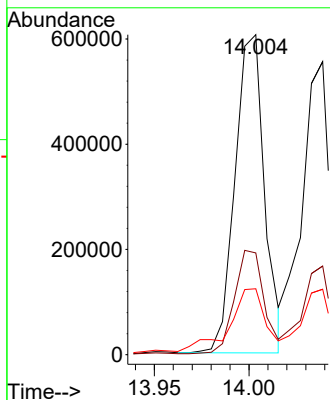
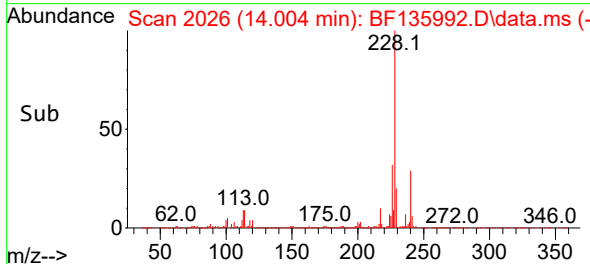
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



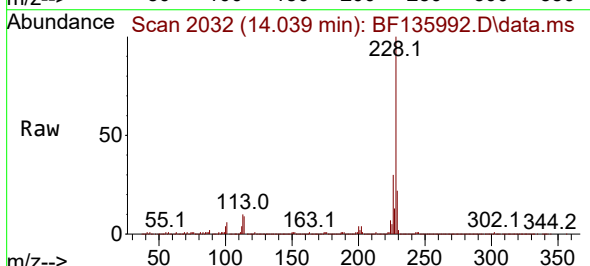
Tgt Ion:228 Resp: 656350
Ion Ratio Lower Upper
228 100
226 31.8 21.8 32.6
229 20.6 16.2 24.4

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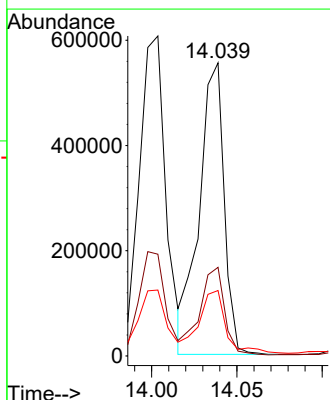
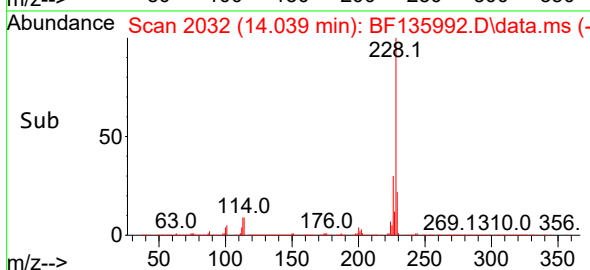
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

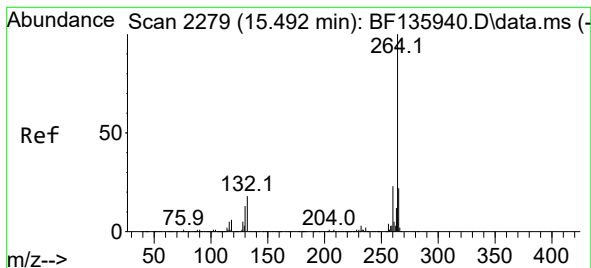


#83
Chrysene
Concen: 23.550 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06



Tgt Ion:228 Resp: 564781
Ion Ratio Lower Upper
228 100
226 30.2 23.9 35.9
229 22.3 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135992.D

Acq: 27 Oct 2023 19:06

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)DL

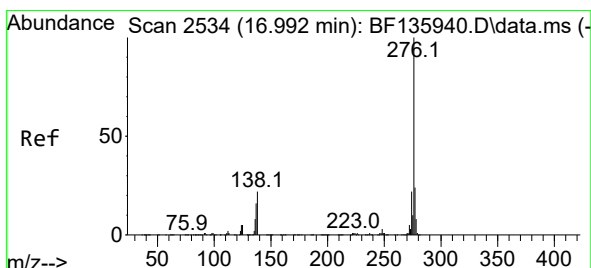
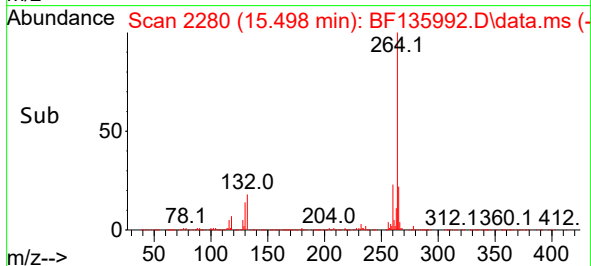
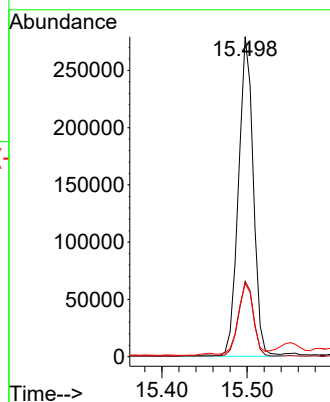
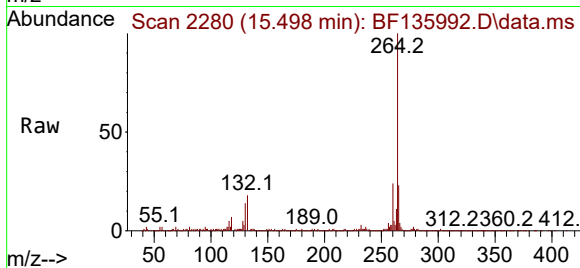
Tgt Ion:264 Resp: 33802
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.6 28.0
 265 22.8 17.3 25.9

Manual Integrations

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Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.127 ng

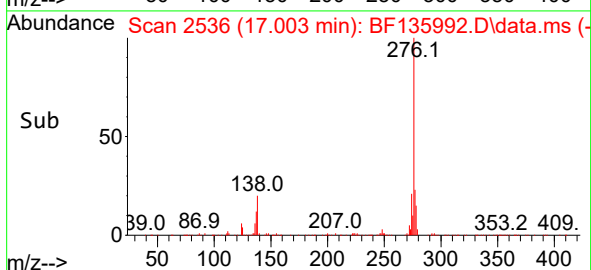
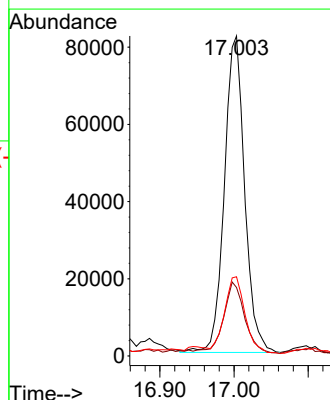
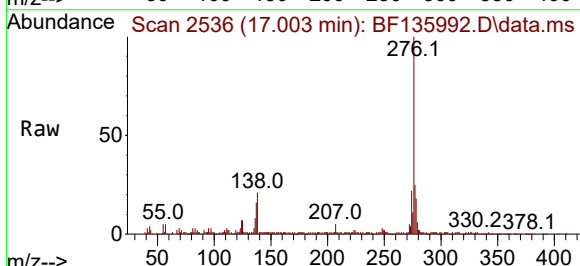
RT: 17.003 min Scan# 2536

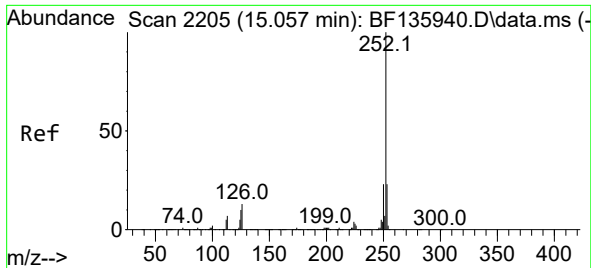
Delta R.T. 0.011 min

Lab File: BF135992.D

Acq: 27 Oct 2023 19:06

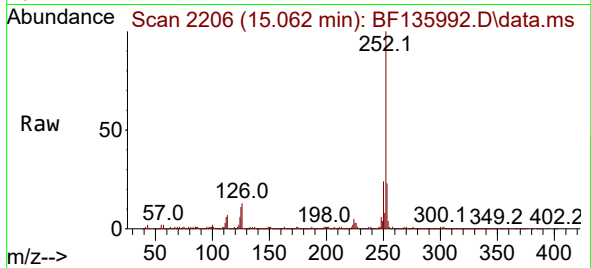
Tgt Ion:276 Resp: 155770
 Ion Ratio Lower Upper
 276 100
 138 23.9 21.8 32.6
 277 24.4 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 29.779 ng m
RT: 15.062 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

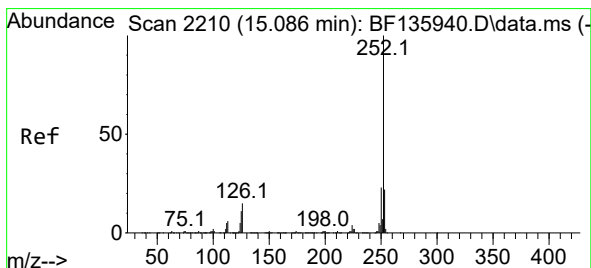
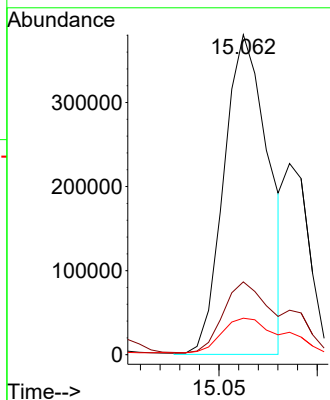
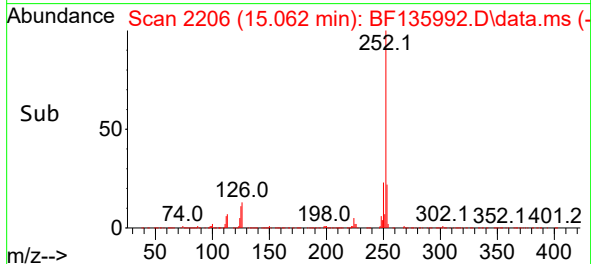
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:252 Resp: 599058
Ion Ratio Lower Upper
252 100
253 22.7 18.0 27.0
125 11.4 8.2 12.4

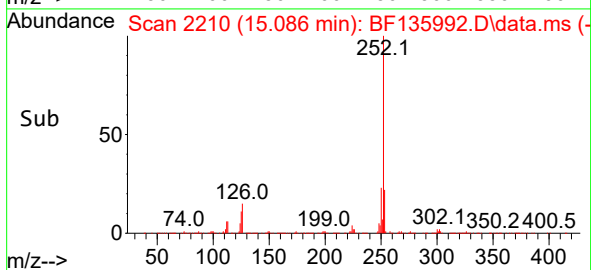
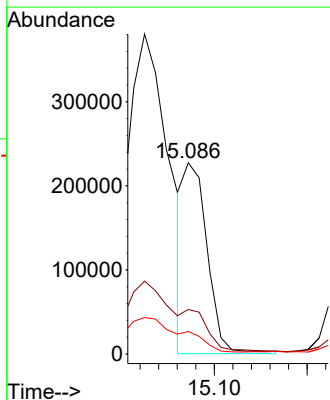
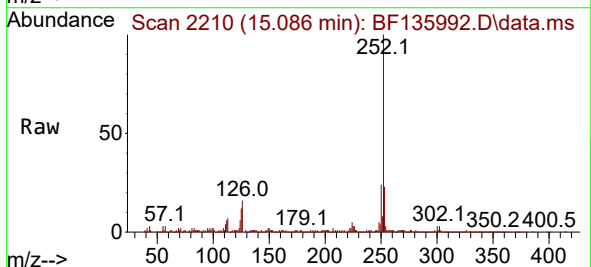
Manual Integrations
APPROVED

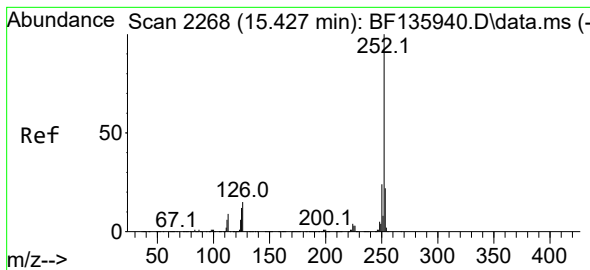
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#89
Benzo(k)fluoranthene
Concen: 10.149 ng m
RT: 15.086 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

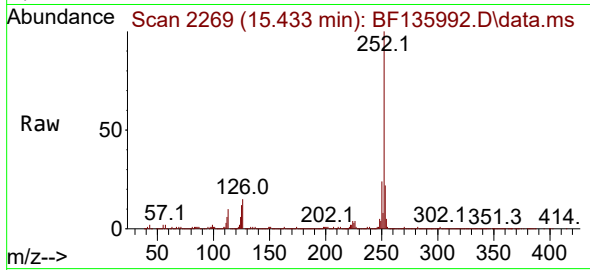
Tgt Ion:252 Resp: 200509
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 11.7 8.5 12.7





#90
Benzo(a)pyrene
Concen: 23.486 ng
RT: 15.433 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

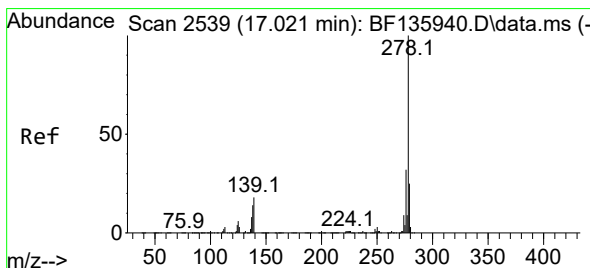
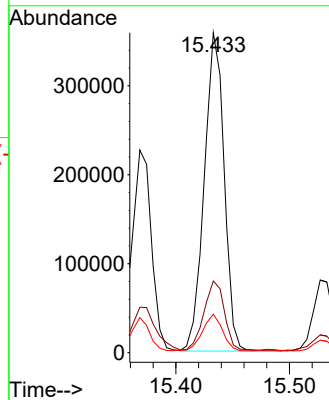
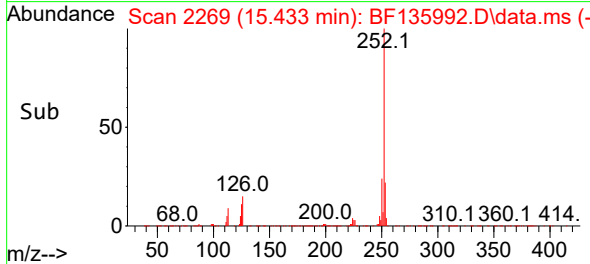
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)DL



Tgt Ion:252 Resp: 43542
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 12.0 9.6 14.4

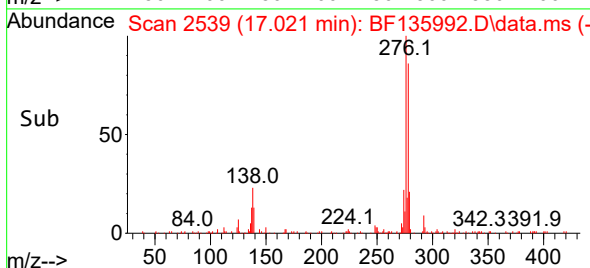
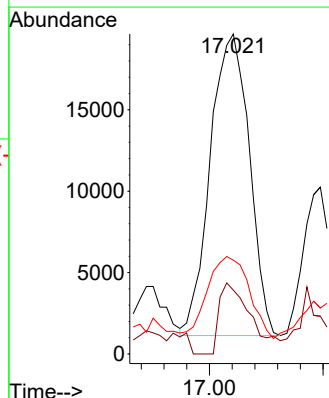
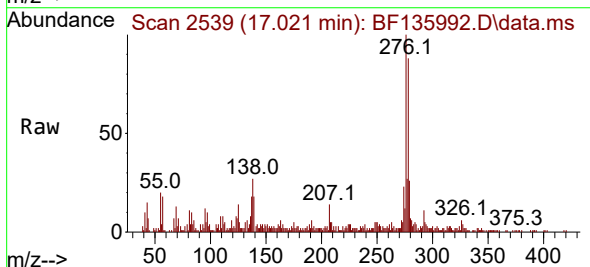
Manual Integrations
APPROVED

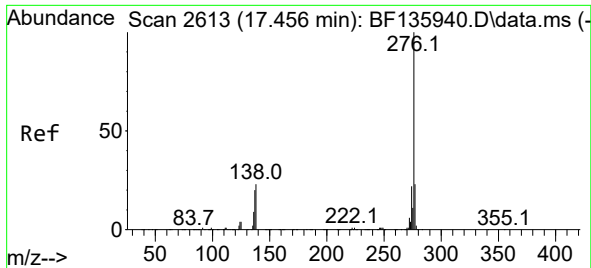
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.698 ng
RT: 17.021 min Scan# 2539
Delta R.T. -0.000 min
Lab File: BF135992.D
Acq: 27 Oct 2023 19:06

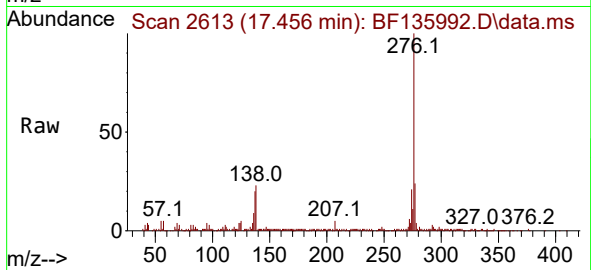
Tgt Ion:278 Resp: 44229
Ion Ratio Lower Upper
278 100
139 19.9 14.0 21.0
279 29.3 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 10.755 ng
 RT: 17.456 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF135992.D
 Acq: 27 Oct 2023 19:06

Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)DL



Tgt Ion:	276	Resp:	141504
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.6	28.0
138	23.3	18.4	27.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

