

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062323\
 Data File : BF133945.D
 Acq On : 23 Jun 2023 16:16
 Operator : CG\JU
 Sample : 03328-19 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW04-8-15

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023

Quant Time: Jun 23 17:27:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 23 02:21:26 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	92771	20.000	ng	0.00
21) Naphthalene-d8	8.139	136	317028	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	126620	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	222442	20.000	ng	0.00
76) Chrysene-d12	14.051	240	150550	20.000	ng	0.00
86) Perylene-d12	15.563	264	125438	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	258256	48.463	ng	0.00
7) Phenol-d6	6.493	99	301343	43.443	ng	0.00
23) Nitrobenzene-d5	7.422	82	190536	32.735	ng	0.00
42) 2,4,6-Tribromophenol	10.692	330	64884	40.482	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	348855	39.165	ng	0.00
79) Terphenyl-d14	12.986	244	332012	34.124	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.416	178	132938	11.779	ng	99
72) Anthracene	11.469	178	32516	2.763	ng	98
75) Fluoranthene	12.616	202	290927	24.275	ng	100
78) Pyrene	12.845	202	256205	18.269	ng	98
81) Benzo(a)anthracene	14.045	228	117943	11.326	ng	96
83) Chrysene	14.080	228	101812	10.337	ng	98
87) Indeno(1,2,3-cd)pyrene	17.115	276	41919	4.857	ng	99
88) Benzo(b)fluoranthene	15.115	252	109782m	14.407	ng	
89) Benzo(k)fluoranthene	15.145	252	39886m	5.374	ng	
90) Benzo(a)pyrene	15.498	252	77178	10.914	ng	96
92) Benzo(g,h,i)perylene	17.592	276	40349	5.696	ng	97

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

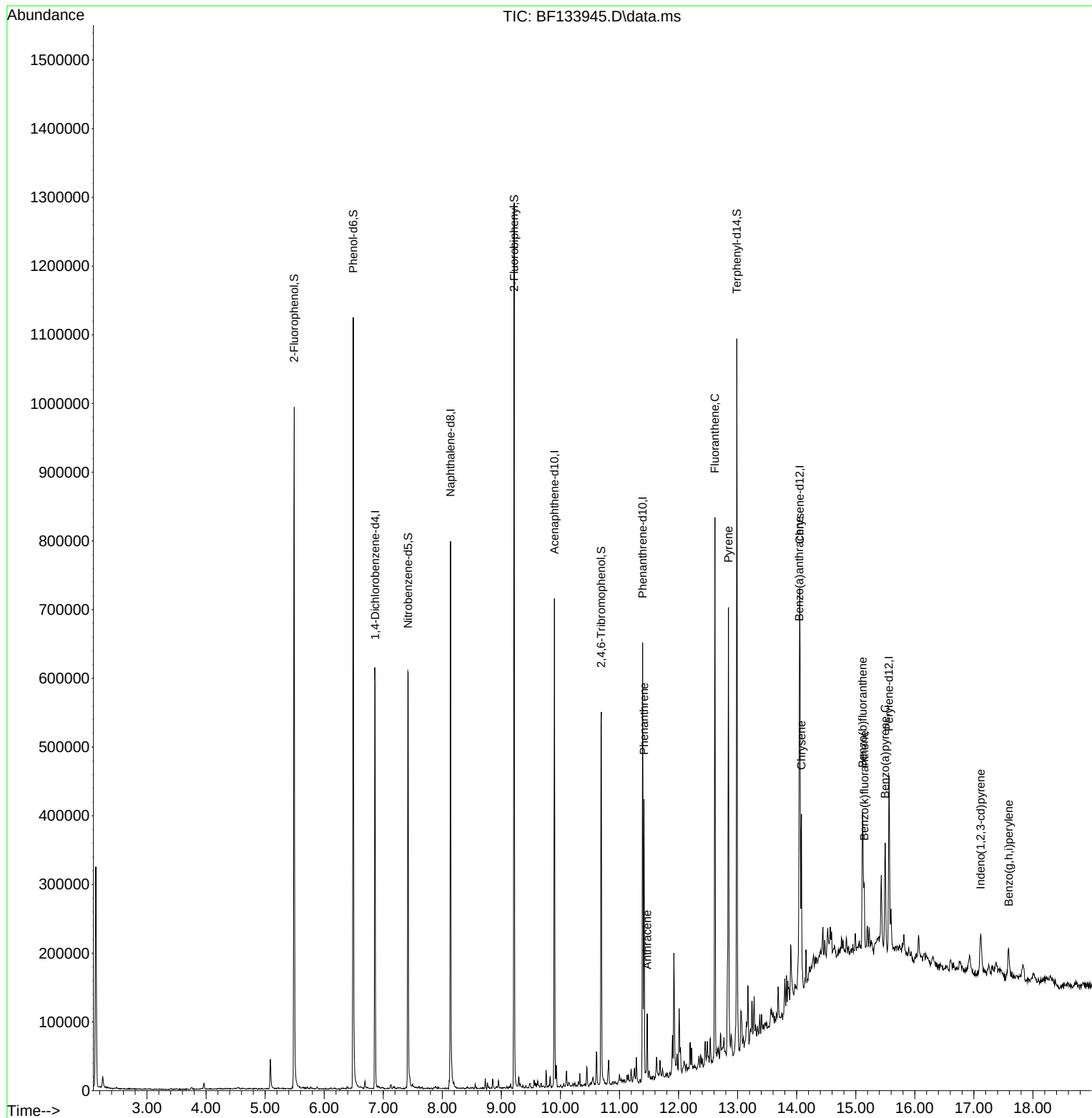
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062323\
Data File : BF133945.D
Acq On : 23 Jun 2023 16:16
Operator : CG\JU
Sample : 03328-19 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

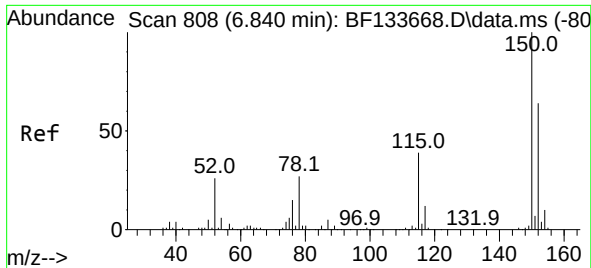
Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15

Quant Time: Jun 23 17:27:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 23 02:21:26 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

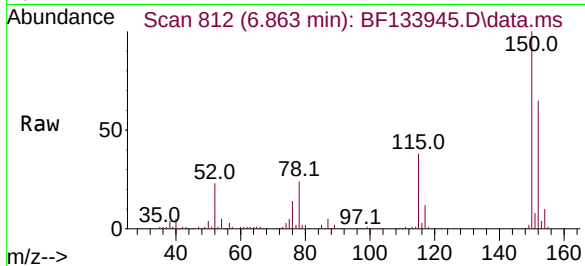
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

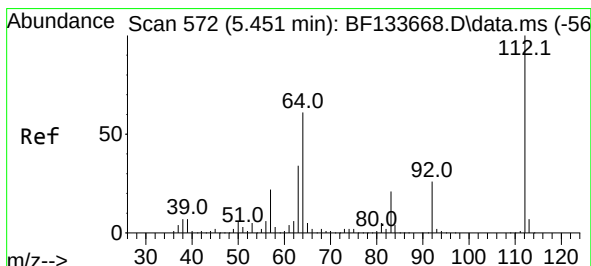
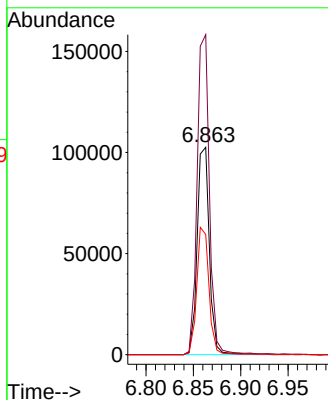
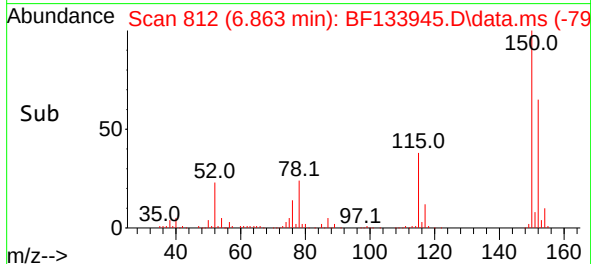
Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15



Tgt Ion:152 Resp: 9277
Ion Ratio Lower Upper
152 100
150 154.3 124.3 186.5
115 58.0 48.5 72.7

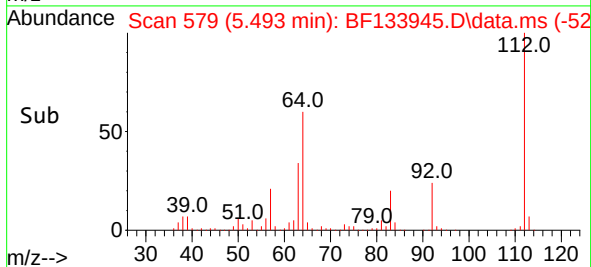
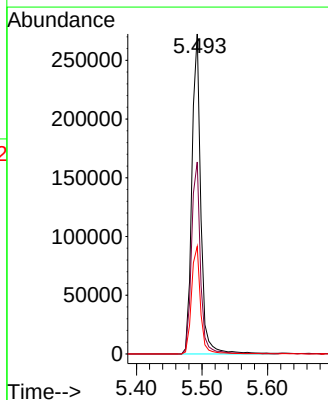
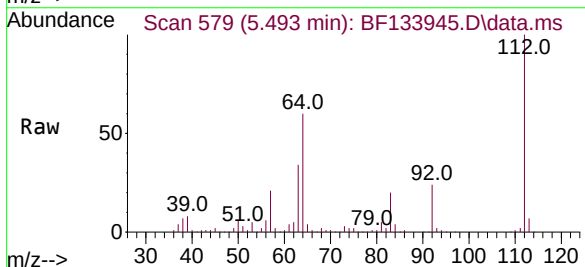
Manual Integrations
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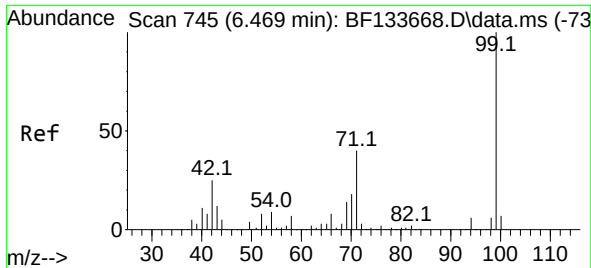
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023



#5
2-Fluorophenol
Concen: 48.463 ng
RT: 5.493 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

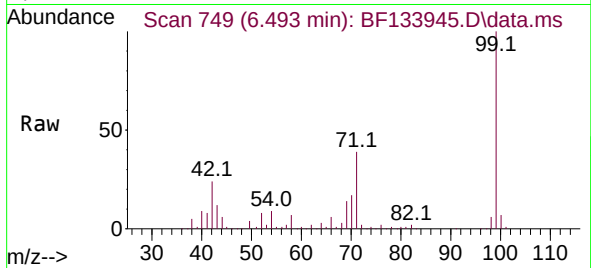
Tgt Ion:112 Resp: 258256
Ion Ratio Lower Upper
112 100
64 60.0 49.0 73.4
63 33.6 26.8 40.2





#7
Phenol-d6
Concen: 43.443 ng
RT: 6.493 min Scan# 745
Delta R.T. -0.006 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

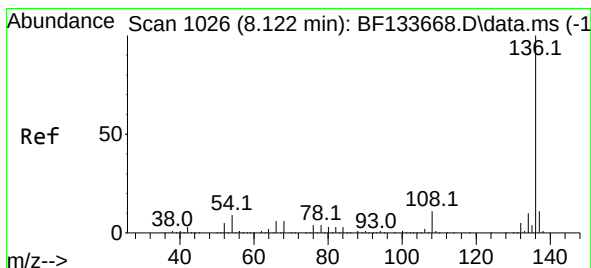
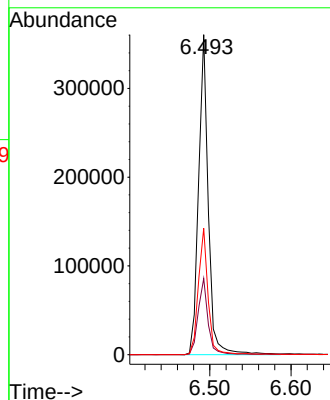
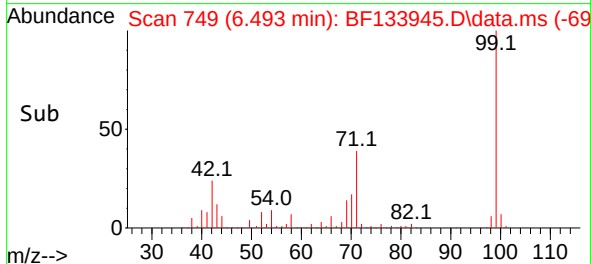
Instrument :
BNA_F
ClientSampleId :
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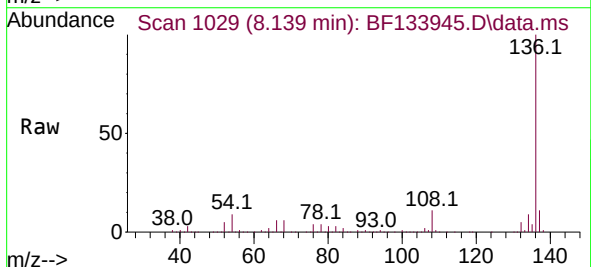
Tgt Ion: 99 Resp: 30134
Ion Ratio Lower Upper
99 100
42 23.8 19.9 29.9
71 39.5 32.2 48.4

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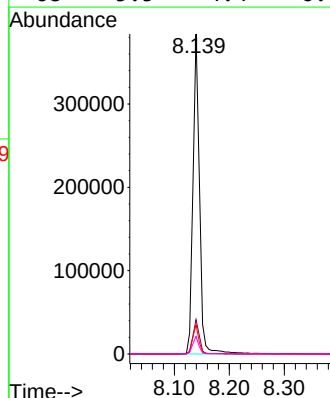
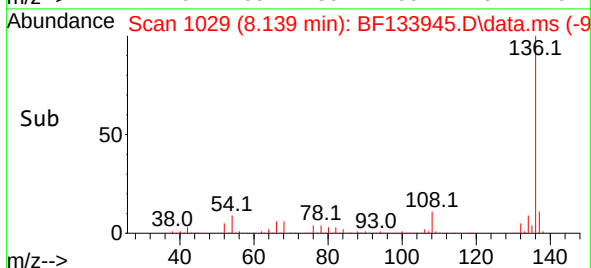
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

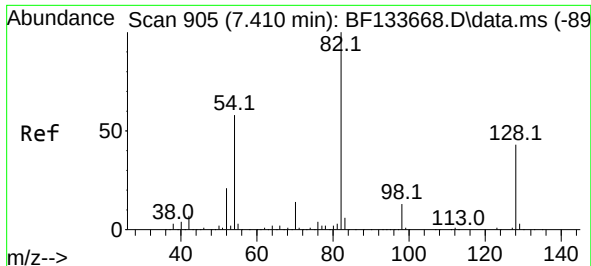


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.139 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16



Tgt Ion:136 Resp: 317028
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 9.0 7.4 11.0
68 5.5 4.4 6.6





#23

Nitrobenzene-d5

Concen: 32.735 ng

RT: 7.422 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

Instrument :

BNA_F

ClientSampleId :

COMPOSIT-SW04-8-15

Tgt Ion: 82 Resp: 190530

Ion Ratio Lower Upper

82 100

128 43.9 34.2 51.2

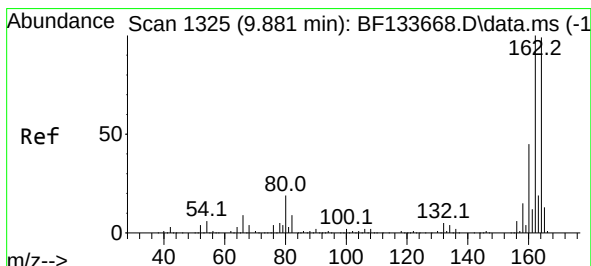
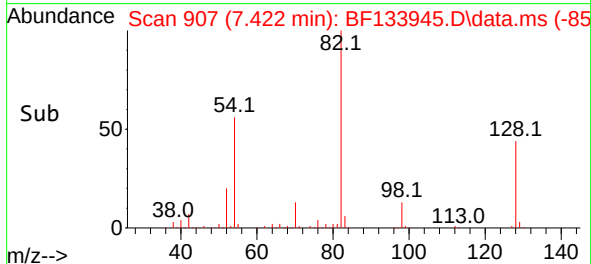
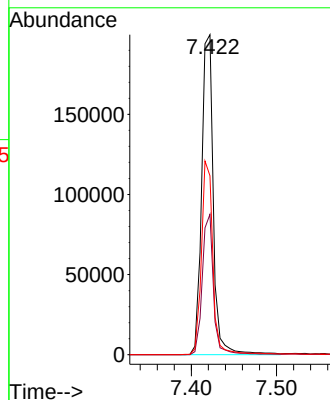
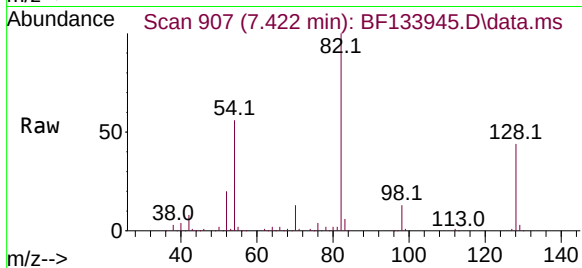
54 55.9 46.5 69.7

Manual Integrations

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Supervised By :mohammad ahmed 06/27/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1328

Delta R.T. 0.000 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

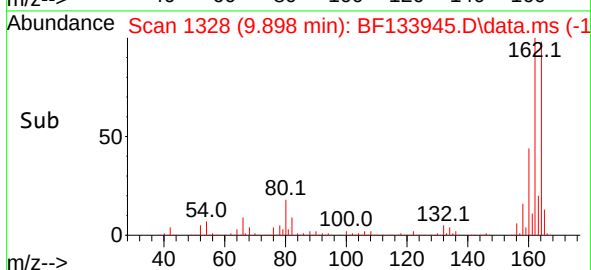
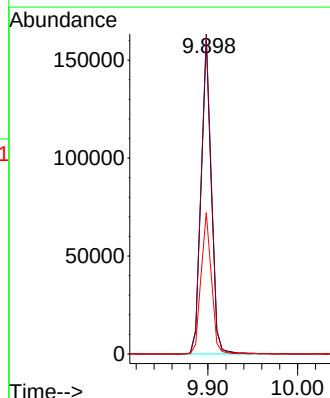
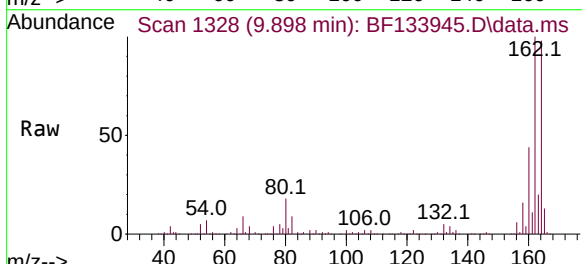
Tgt Ion:164 Resp: 126620

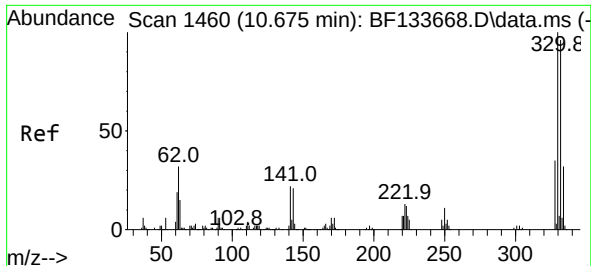
Ion Ratio Lower Upper

164 100

162 101.8 80.8 121.2

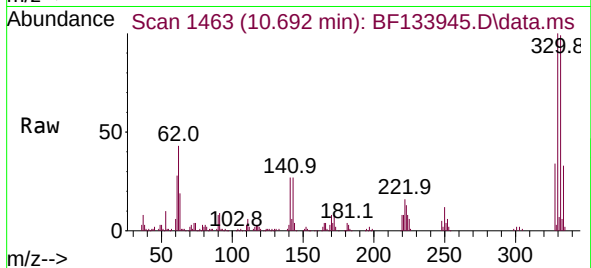
160 44.9 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 40.482 ng
RT: 10.692 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

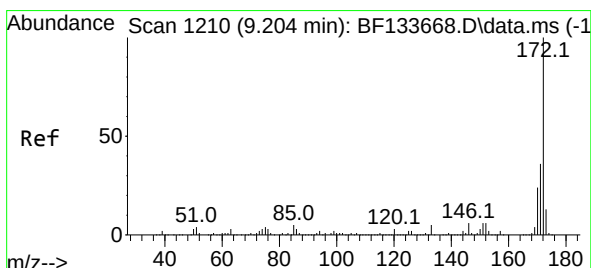
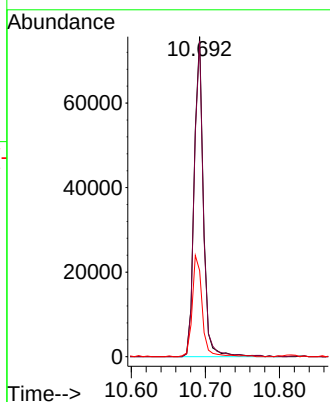
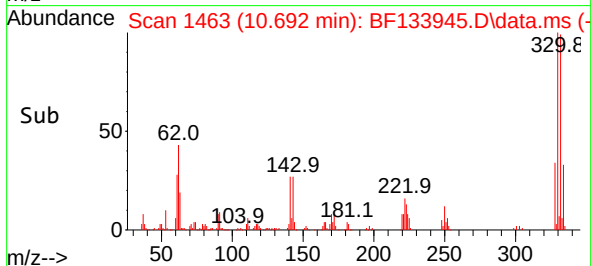
Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15



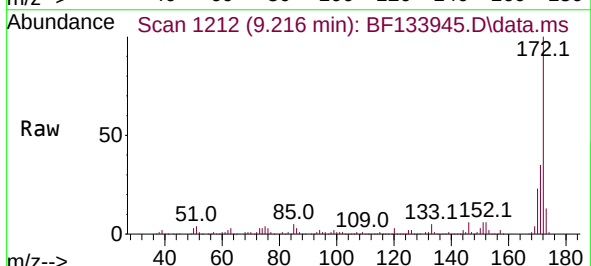
Tgt Ion:330 Resp: 64884
Ion Ratio Lower Upper
330 100
332 98.0 77.2 115.8
141 34.6 24.9 37.3

Manual Integrations
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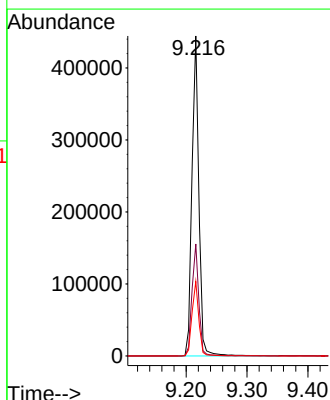
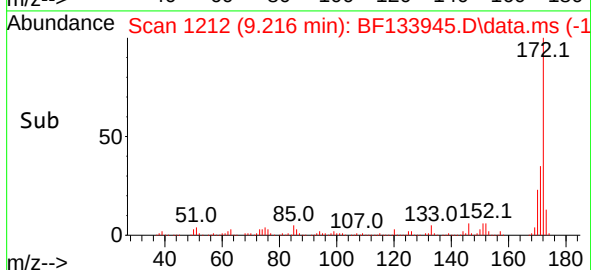
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

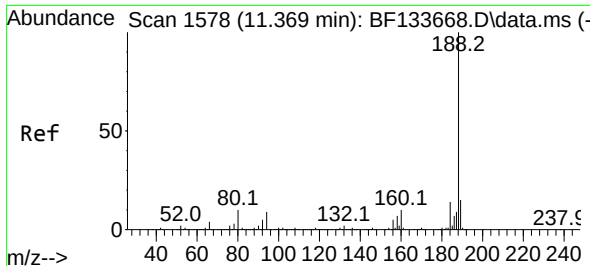


#45
2-Fluorobiphenyl
Concen: 39.165 ng
RT: 9.216 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16



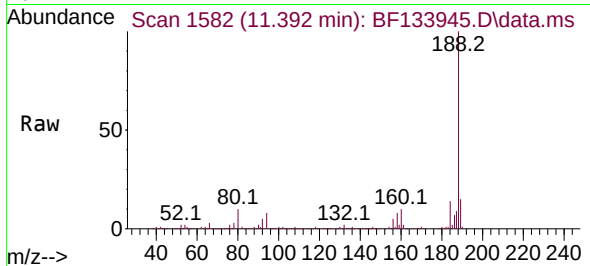
Tgt Ion:172 Resp: 348855
Ion Ratio Lower Upper
172 100
171 35.0 28.6 43.0
170 23.3 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11392
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

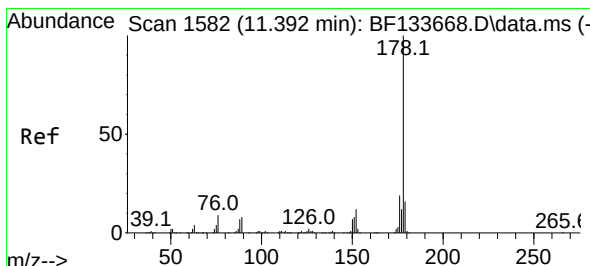
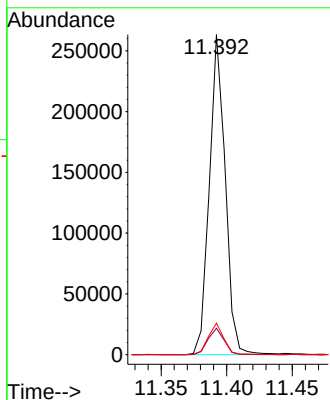
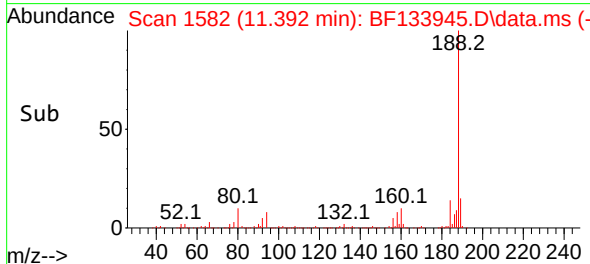
Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15



Tgt Ion:188 Resp: 22244
Ion Ratio Lower Upper
188 100
94 8.2 6.8 10.2
80 9.9 7.8 11.6

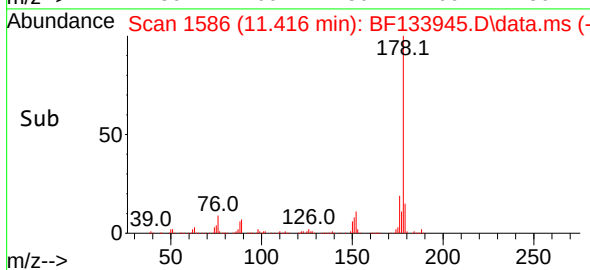
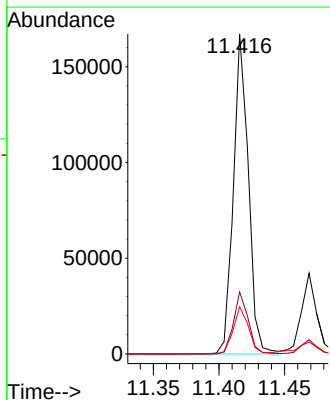
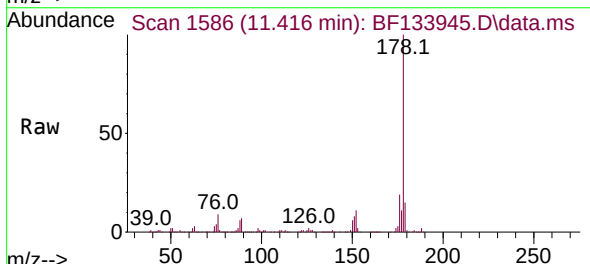
Manual Integrations
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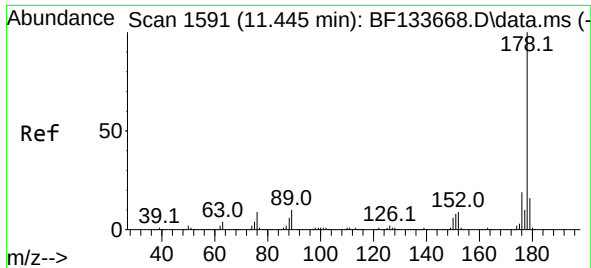
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023



#71
Phenanthrene
Concen: 11.779 ng
RT: 11.416 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

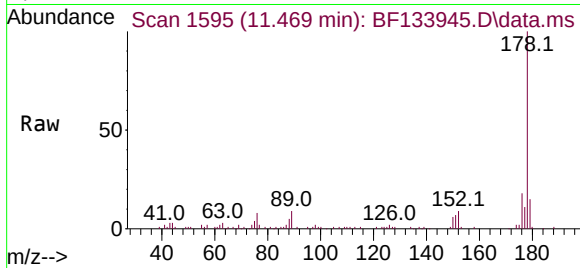
Tgt Ion:178 Resp: 132938
Ion Ratio Lower Upper
178 100
176 19.4 15.6 23.4
179 14.8 12.4 18.6





#72
 Anthracene
 Concen: 2.763 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF133945.D
 Acq: 23 Jun 2023 16:16

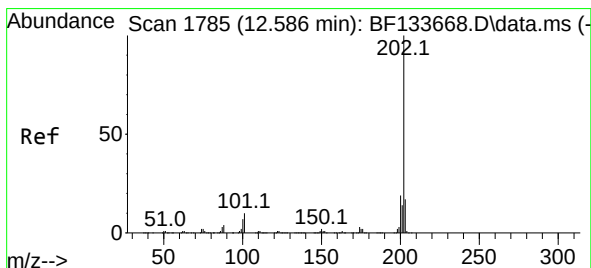
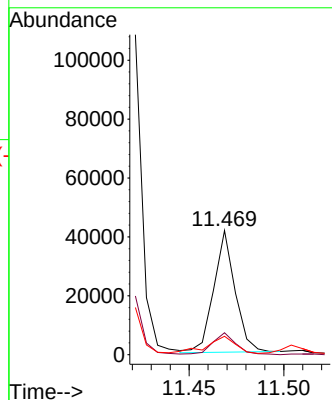
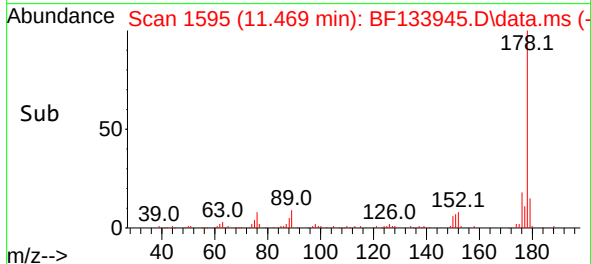
Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW04-8-15



Tgt Ion:178 Resp: 32510
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.1 22.7
 179 14.8 12.6 18.8

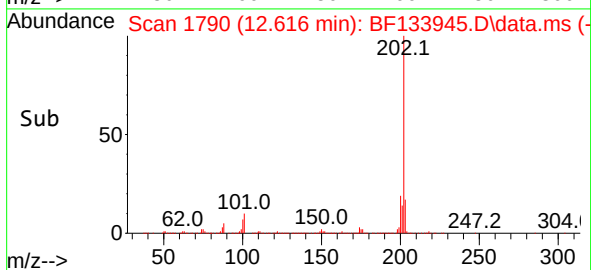
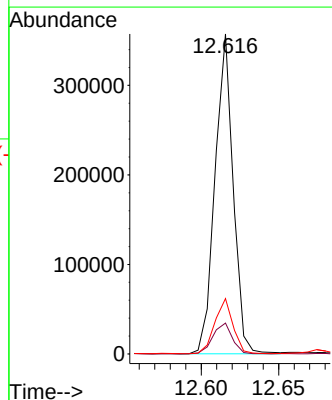
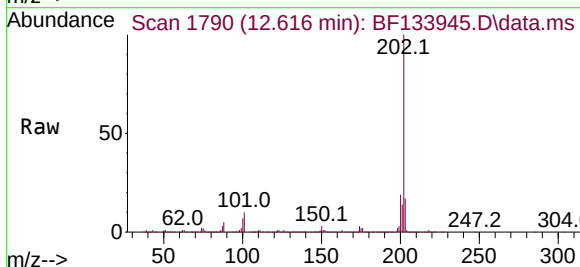
Manual Integrations
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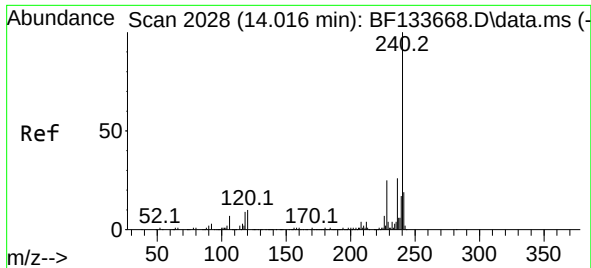
Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023



#75
 Fluoranthene
 Concen: 24.275 ng
 RT: 12.616 min Scan# 1790
 Delta R.T. 0.000 min
 Lab File: BF133945.D
 Acq: 23 Jun 2023 16:16

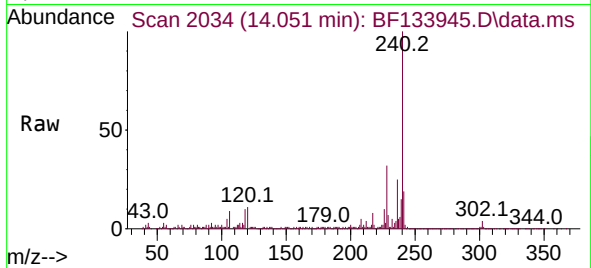
Tgt Ion:202 Resp: 290927
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 29.6
 203 17.3 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

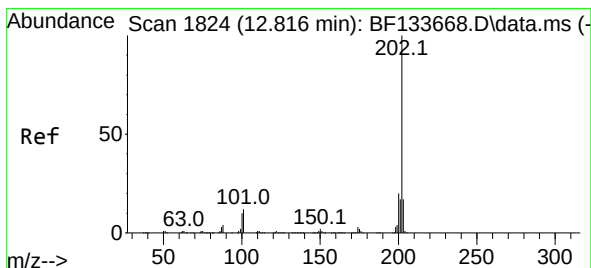
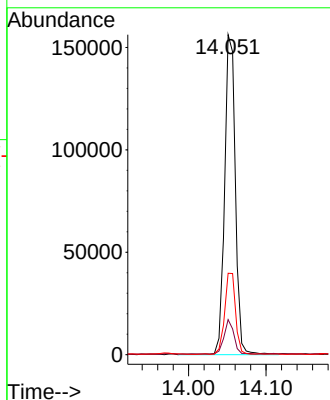
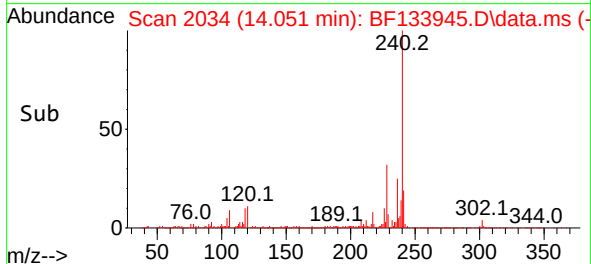
Instrument :
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ClientSampleId :
COMPOSIT-SW04-8-15



Tgt Ion:240 Resp: 150550
Ion Ratio Lower Upper
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120 10.9 8.1 12.1
236 25.4 20.5 30.7

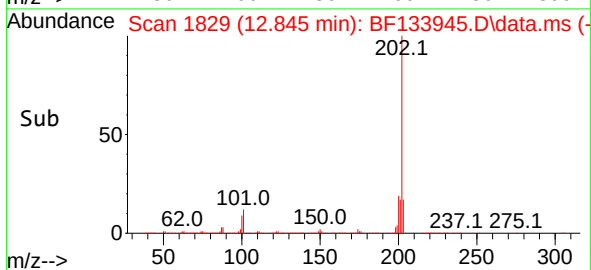
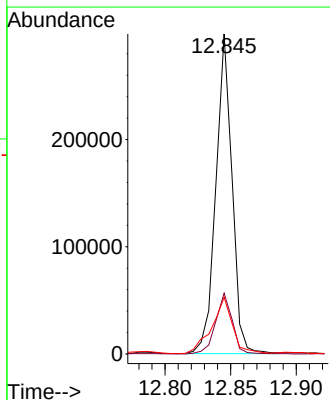
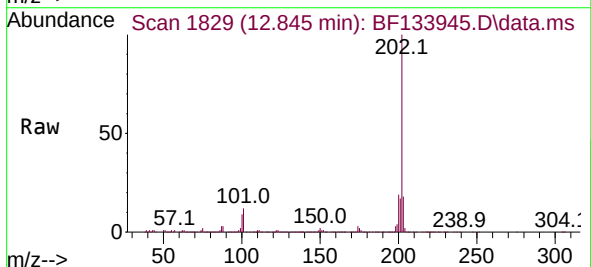
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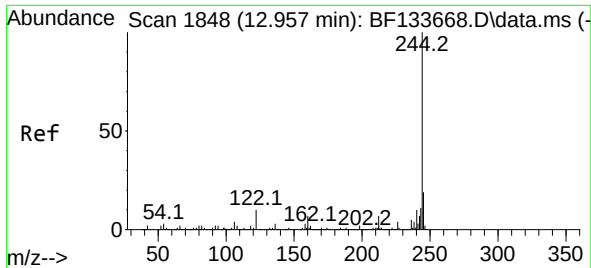
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023



#78
Pyrene
Concen: 18.269 ng
RT: 12.845 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

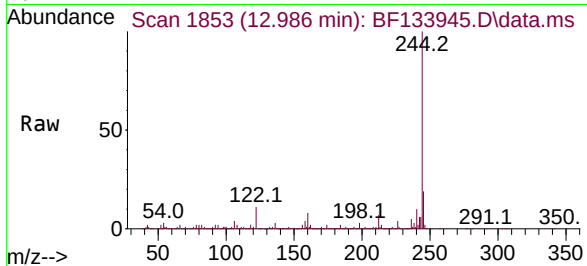
Tgt Ion:202 Resp: 256205
Ion Ratio Lower Upper
202 100
200 19.0 16.2 24.2
203 17.7 13.9 20.9





#79
 Terphenyl-d14
 Concen: 34.124 ng
 RT: 12.986 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF133945.D
 Acq: 23 Jun 2023 16:16

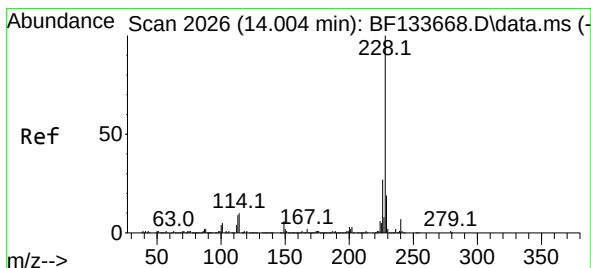
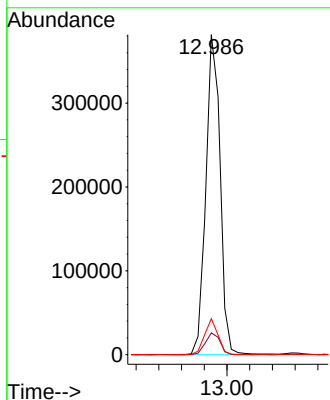
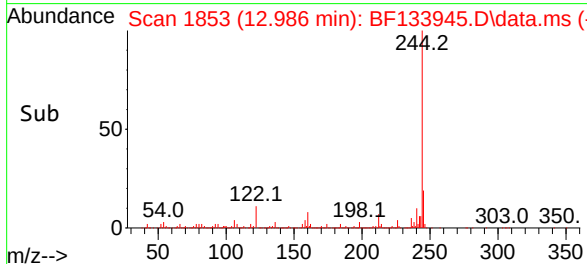
Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW04-8-15



Tgt Ion:244 Resp: 332012
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 11.2 8.1 12.1

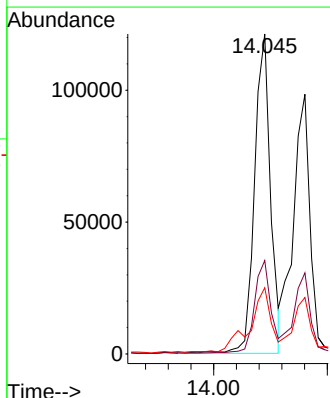
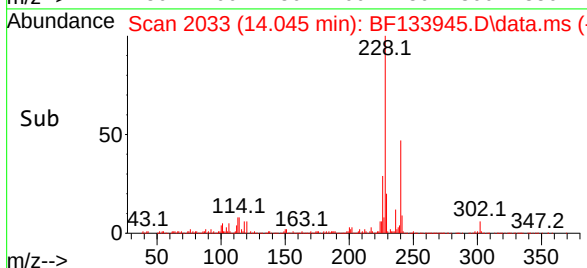
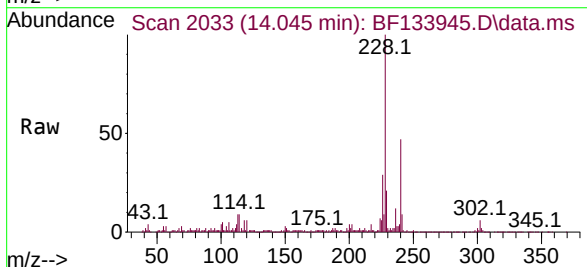
Manual Integrations
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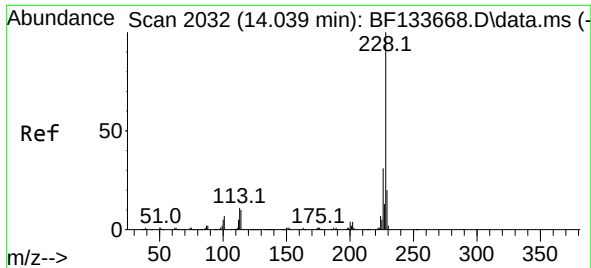
Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023



#81
 Benzo(a)anthracene
 Concen: 11.326 ng
 RT: 14.045 min Scan# 2033
 Delta R.T. 0.000 min
 Lab File: BF133945.D
 Acq: 23 Jun 2023 16:16

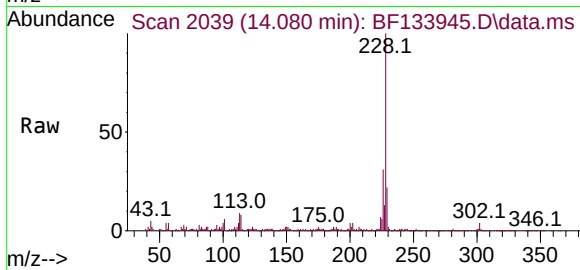
Tgt Ion:228 Resp: 117943
 Ion Ratio Lower Upper
 228 100
 226 29.2 21.7 32.5
 229 20.7 15.4 23.2





#83
Chrysene
Concen: 10.337 ng
RT: 14.080 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

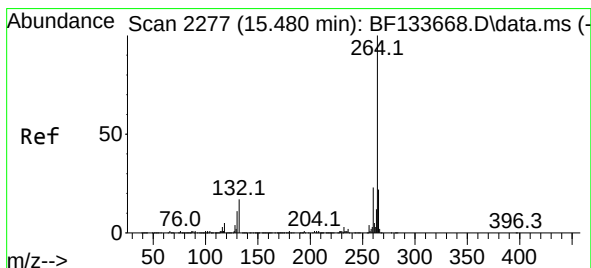
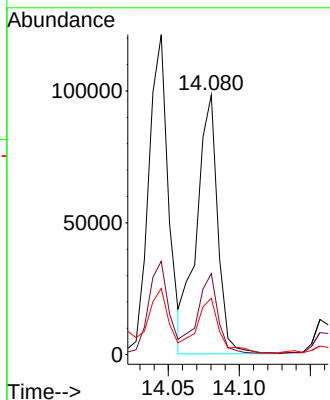
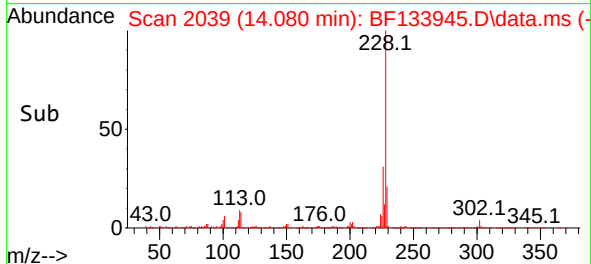
Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15



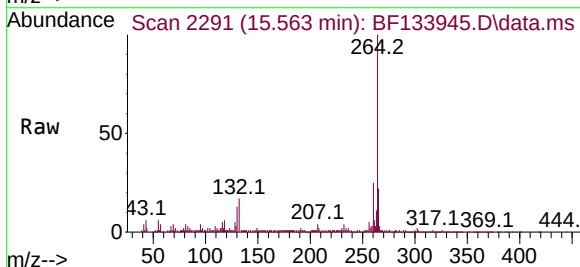
Tgt Ion:228 Resp: 101812
Ion Ratio Lower Upper
228 100
226 31.2 25.0 37.6
229 21.7 15.8 23.8

Manual Integrations
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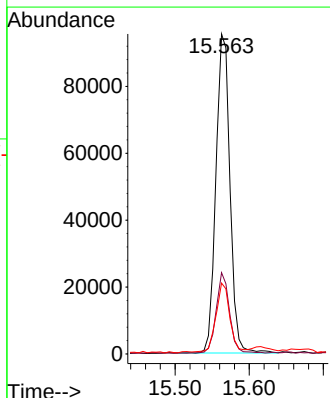
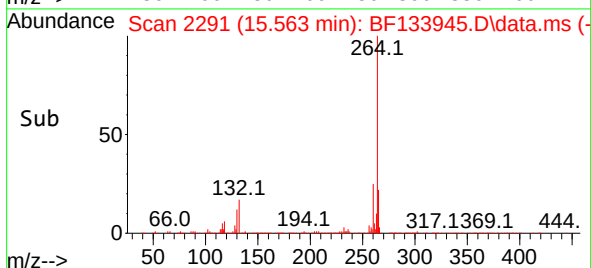
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

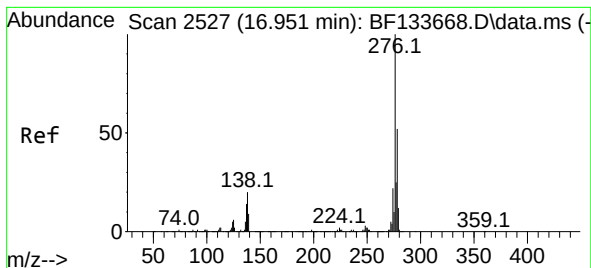


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2291
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16



Tgt Ion:264 Resp: 125438
Ion Ratio Lower Upper
264 100
260 25.4 18.2 27.2
265 22.2 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.857 ng

RT: 17.115 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

Instrument :

BNA_F

ClientSampleId :

COMPOSIT-SW04-8-15

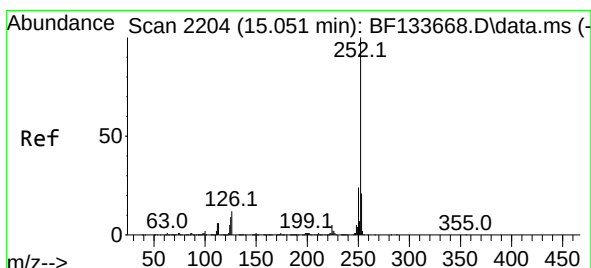
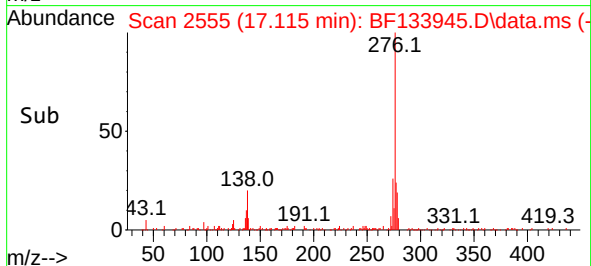
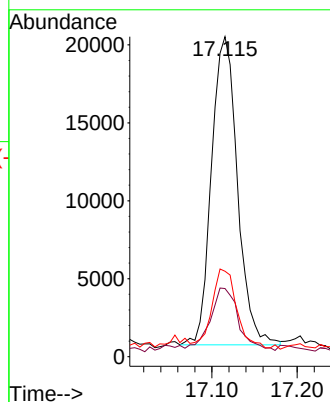
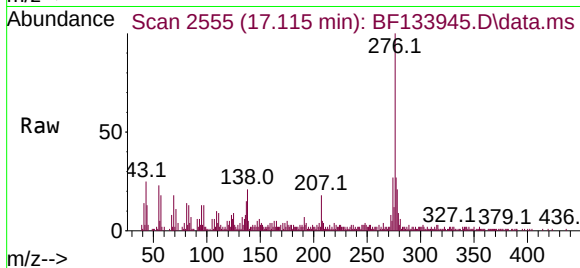
Tgt Ion:	276	Resp:	41919
Ion Ratio	Lower	Upper	
276	100		
138	21.9	17.9	26.9
277	25.0	20.3	30.5

Manual Integrations

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Reviewed By :Yogesh Patel 06/26/2023

Supervised By :mohammad ahmed 06/27/2023



#88

Benzo(b)fluoranthene

Concen: 14.407 ng m

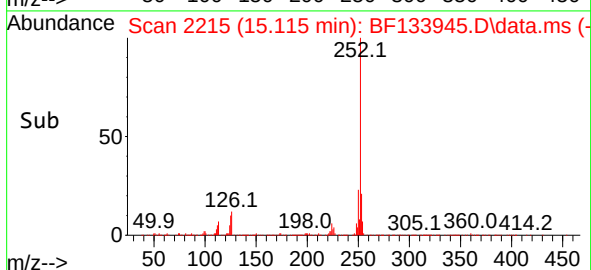
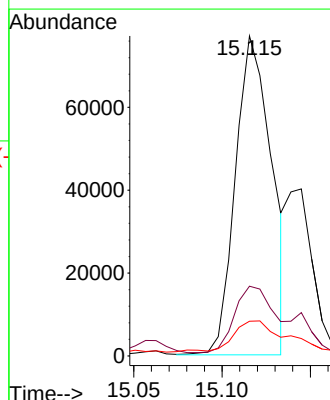
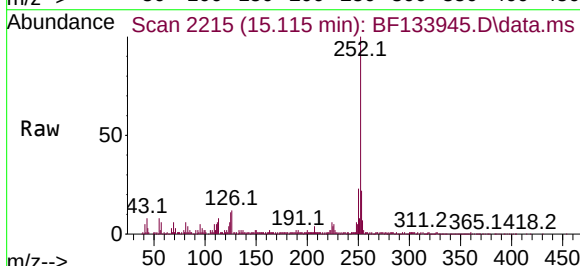
RT: 15.115 min Scan# 2215

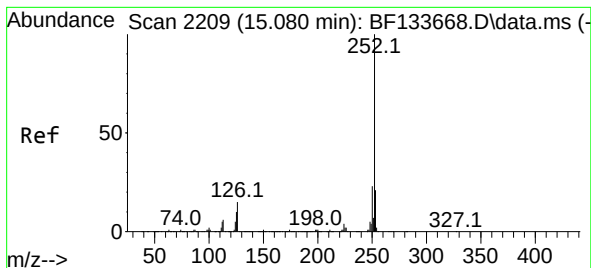
Delta R.T. 0.000 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

Tgt Ion:	252	Resp:	109782
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.0	25.6
125	10.8	7.3	10.9





#89

Benzo(k)fluoranthene

Concen: 5.374 ng m

RT: 15.145 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

Instrument :

BNA_F

ClientSampleId :

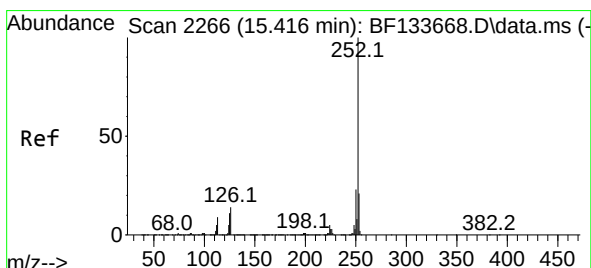
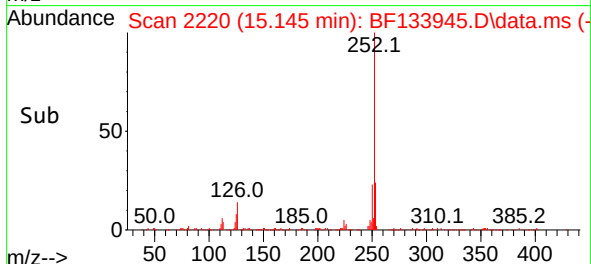
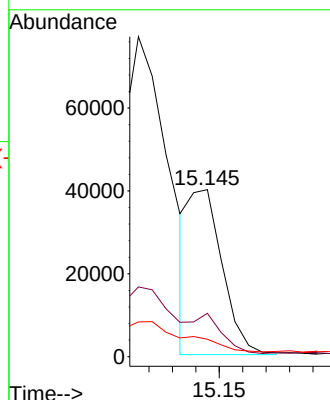
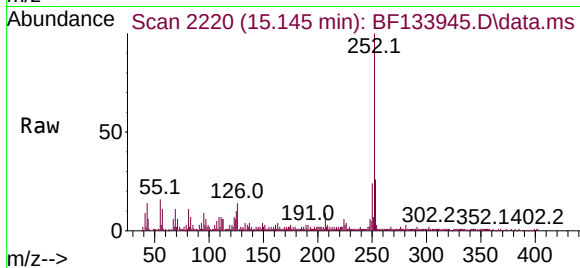
COMPOSIT-SW04-8-15

Tgt Ion:252 Resp: 39880
 Ion Ratio Lower Upper
 252 100
 253 26.0 17.0 25.4
 125 10.5 7.8 11.6

Manual Integrations

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Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023



#90

Benzo(a)pyrene

Concen: 10.914 ng

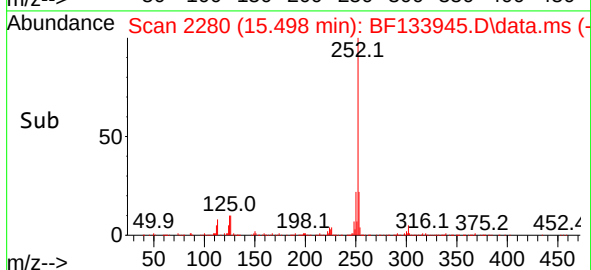
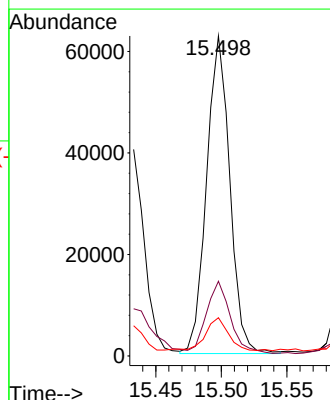
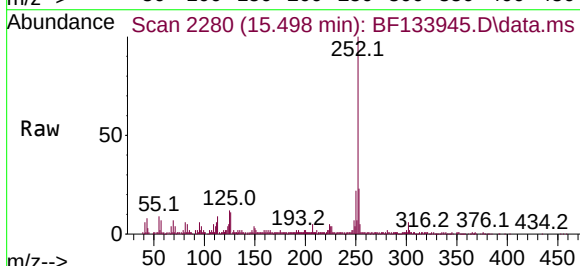
RT: 15.498 min Scan# 2280

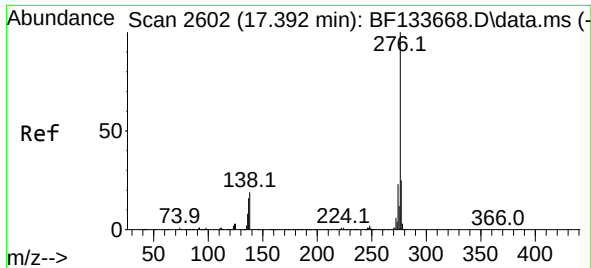
Delta R.T. 0.000 min

Lab File: BF133945.D

Acq: 23 Jun 2023 16:16

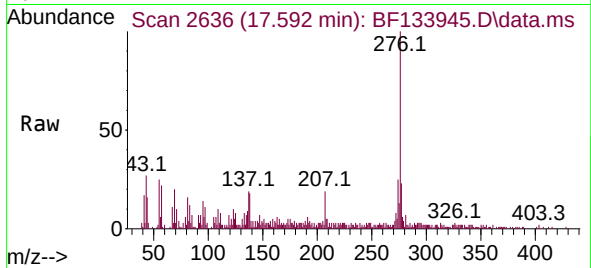
Tgt Ion:252 Resp: 77178
 Ion Ratio Lower Upper
 252 100
 253 23.4 17.1 25.7
 125 12.0 8.6 13.0





#92
Benzo(g,h,i)perylene
Concen: 5.696 ng
RT: 17.592 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF133945.D
Acq: 23 Jun 2023 16:16

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW04-8-15



Tgt Ion:276 Resp: 40349
Ion Ratio Lower Upper
276 100
277 23.2 19.8 29.8
138 17.8 15.0 22.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

