

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
 Data File : BF139798.D
 Acq On : 14 Oct 2024 19:52
 Operator : RC/JU
 Sample : P4364-02DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-2.5-3.0DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/15/2024
 Supervised By :mohammad ahmed 10/15/2024

Quant Time: Oct 15 01:13:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 02 04:58:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	84201	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	324056	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	175823	20.000	ng	-0.01
64) Phenanthrene-d10	11.386	188	290604	20.000	ng	0.00
76) Chrysene-d12	14.021	240	148177	20.000	ng	-0.01
86) Perylene-d12	15.498	264	165318	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	112045	23.064	ng	0.00
7) Phenol-d6	6.492	99	146834	22.476	ng	-0.01
23) Nitrobenzene-d5	7.422	82	90386	14.122	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	30348	17.880	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	178651	15.599	ng	-0.01
79) Terphenyl-d14	12.963	244	129765	14.369	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.163	128	35785	2.160	ng	98
49) Acenaphthylene	9.757	152	39975	2.681	ng	96
58) Fluorene	10.445	166	40319	3.532	ng	# 97
71) Phenanthrene	11.410	178	343878	25.097	ng	99
72) Anthracene	11.457	178	59550	4.393	ng	98
75) Fluoranthene	12.598	202	284791	19.013	ng	100
78) Pyrene	12.827	202	341802	25.791	ng	99
81) Benzo(a)anthracene	14.016	228	125337m	12.866	ng	
83) Chrysene	14.051	228	102952	11.559	ng	97
87) Indeno(1,2,3-cd)pyrene	16.968	276	51375	5.280	ng	97
88) Benzo(b)fluoranthene	15.068	252	118154m	11.054	ng	
89) Benzo(k)fluoranthene	15.080	252	49181m	5.424	ng	
90) Benzo(a)pyrene	15.433	252	102252	12.132	ng	99
92) Benzo(g,h,i)perylene	17.415	276	62050	7.666	ng	98

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

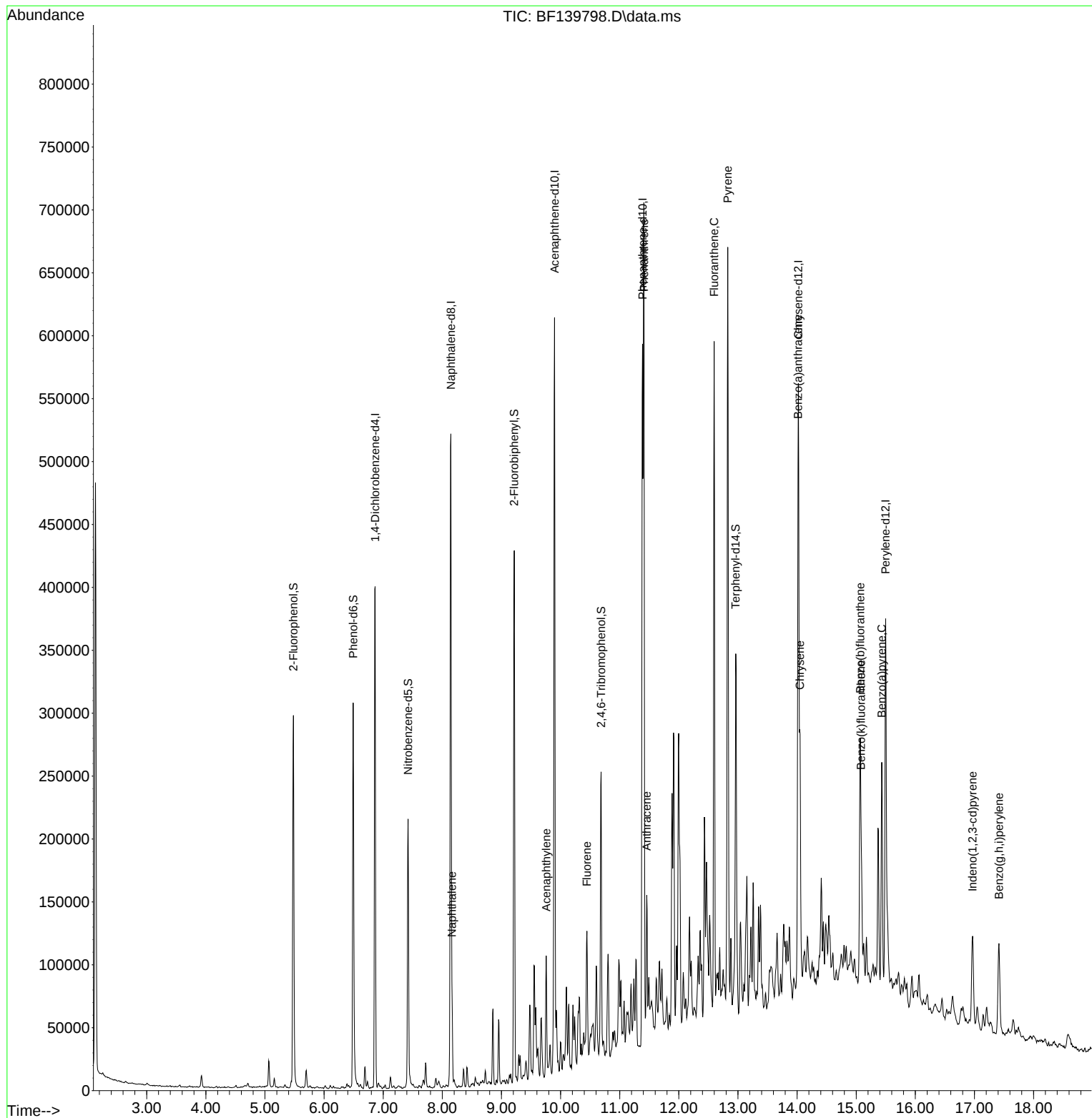
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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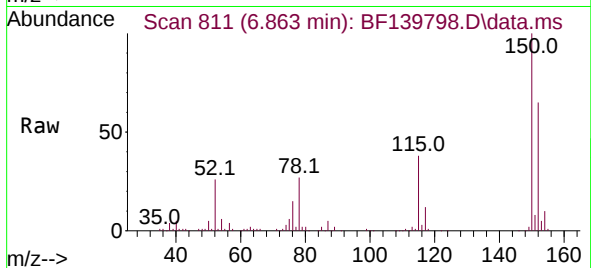
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 812
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

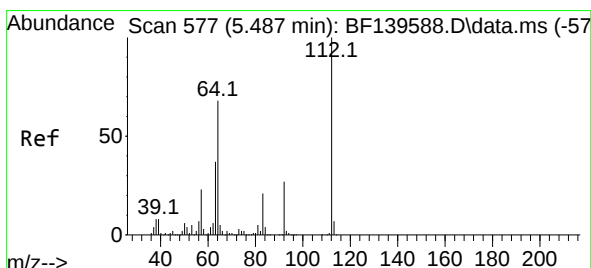
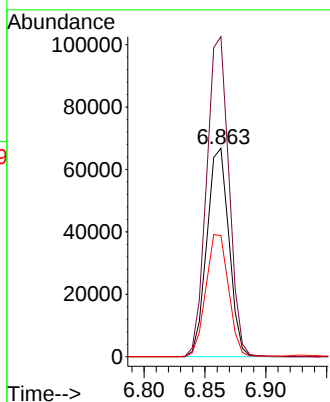
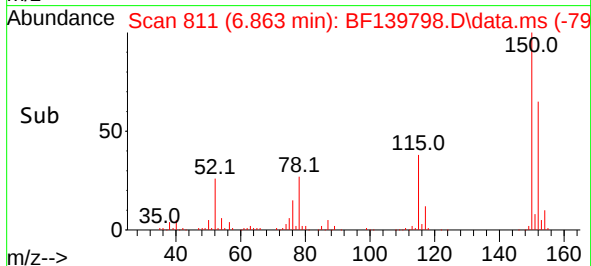
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



Tgt Ion:152 Resp: 8420
Ion Ratio Lower Upper
152 100
150 153.6 127.2 190.8
115 58.1 49.0 73.4

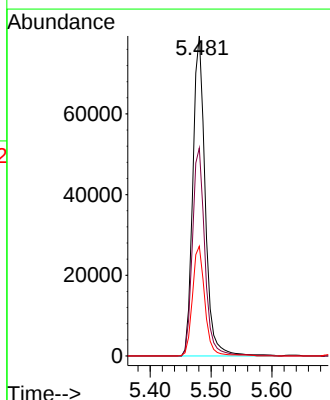
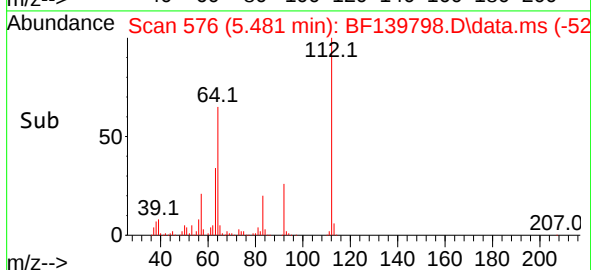
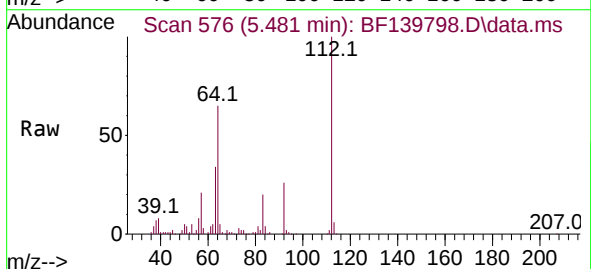
Manual Integrations
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#5
2-Fluorophenol
Concen: 23.064 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

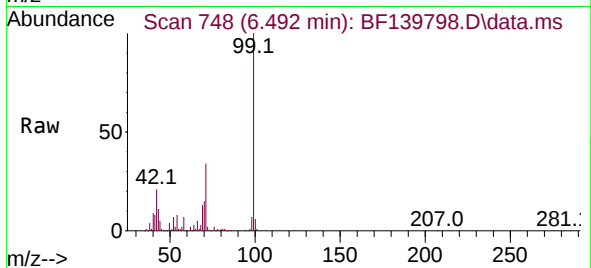
Tgt Ion:112 Resp: 112045
Ion Ratio Lower Upper
112 100
64 65.0 54.2 81.4
63 34.3 29.4 44.2





#7
Phenol-d6
Concen: 22.476 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

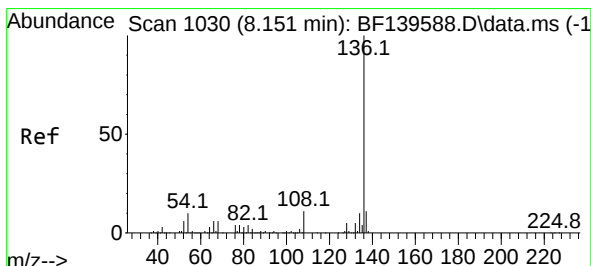
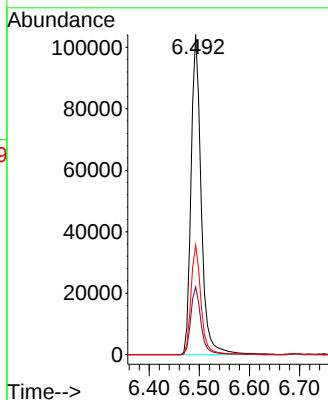
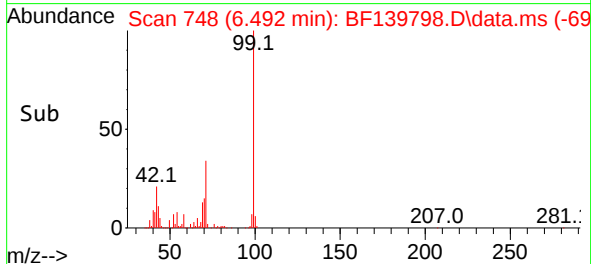
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



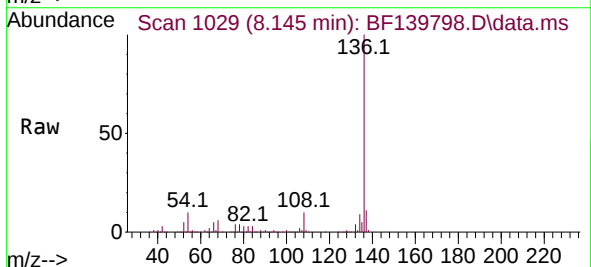
Tgt Ion: 99 Resp: 146834
Ion Ratio Lower Upper
99 100
42 21.2 19.1 28.7
71 34.2 29.7 44.5

Manual Integrations
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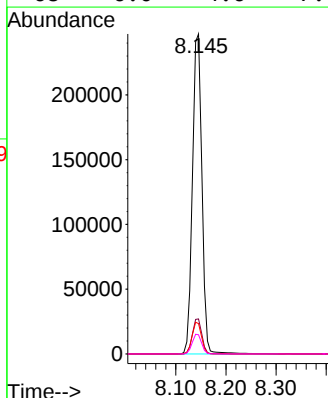
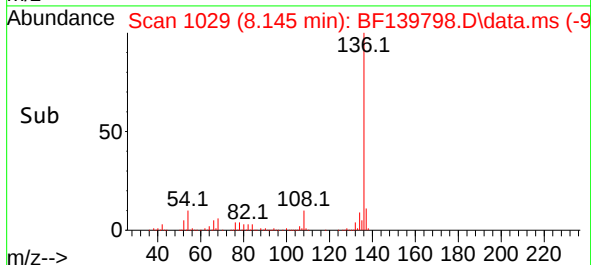
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52



Tgt Ion:136 Resp: 324056
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.5 8.3 12.5
68 6.0 4.6 7.0





#23
Nitrobenzene-d5
Concen: 14.122 ng
RT: 7.422 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

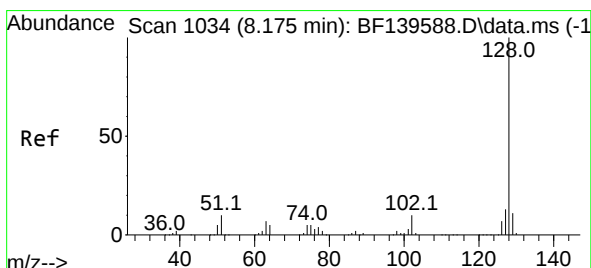
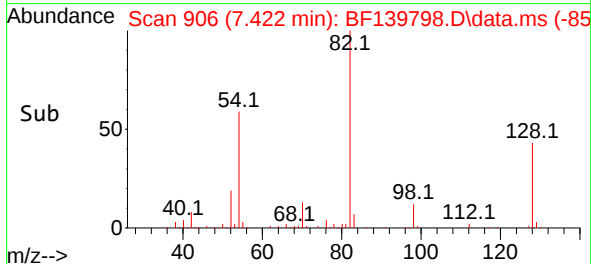
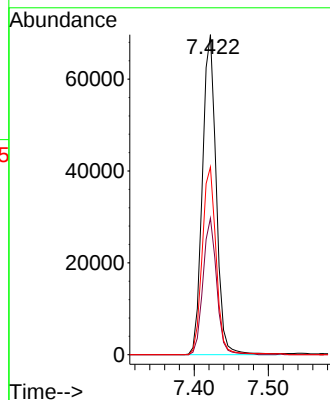
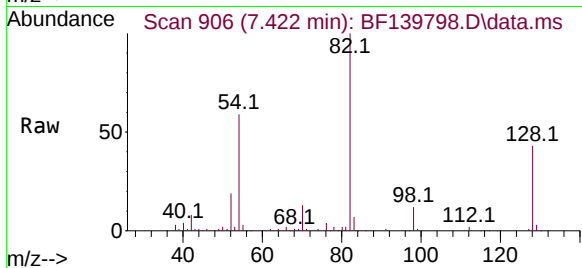
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Tgt Ion: 82 Resp: 90386
Ion Ratio Lower Upper
82 100
128 42.7 32.4 48.6
54 58.6 49.1 73.7

Manual Integrations

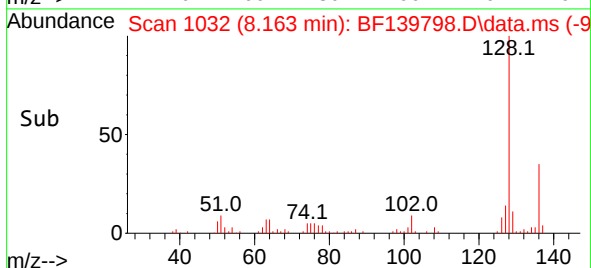
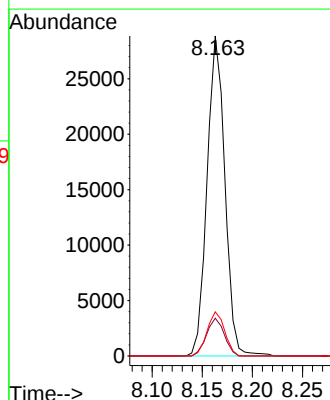
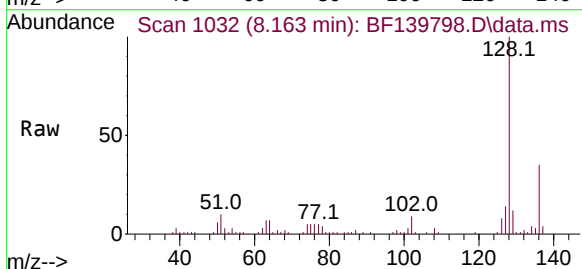
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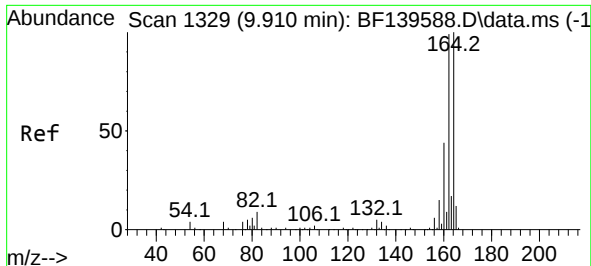
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024



#31
Naphthalene
Concen: 2.160 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

Tgt Ion:128 Resp: 35785
Ion Ratio Lower Upper
128 100
129 11.8 8.8 13.2
127 13.8 10.5 15.7





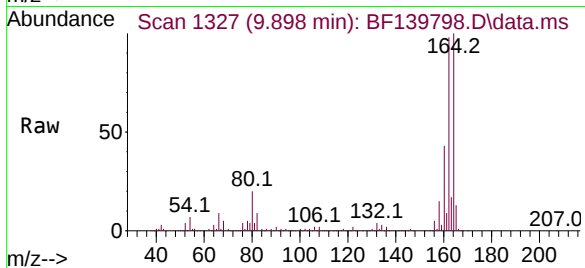
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

SB-01-2.5-3.0DL



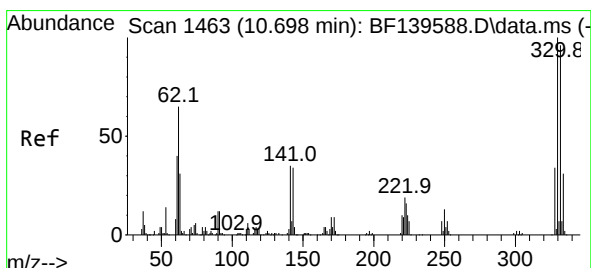
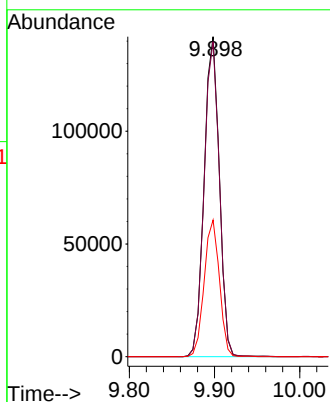
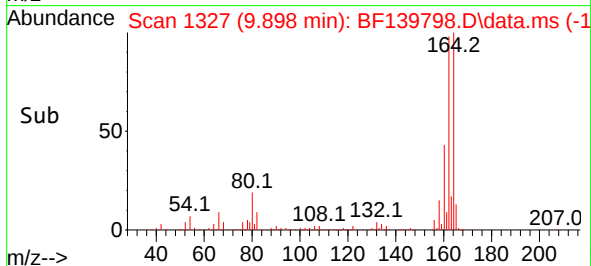
Tgt Ion:164 Resp: 17582
Ion Ratio Lower Upper
164 100
162 98.5 79.4 119.0
160 42.7 35.1 52.7

Manual Integrations

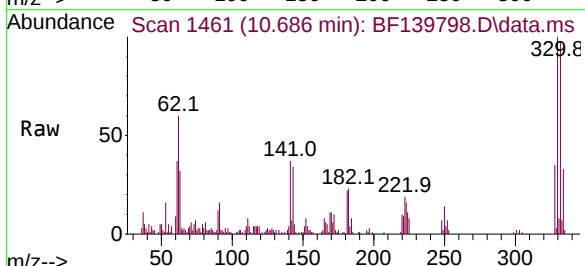
APPROVED

Reviewed By :Yogesh Patel 10/15/2024

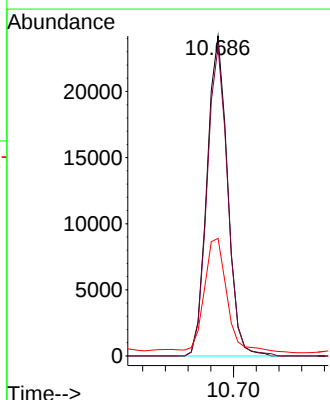
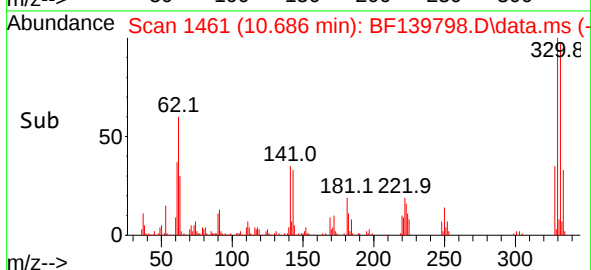
Supervised By :mohammad ahmed 10/15/2024

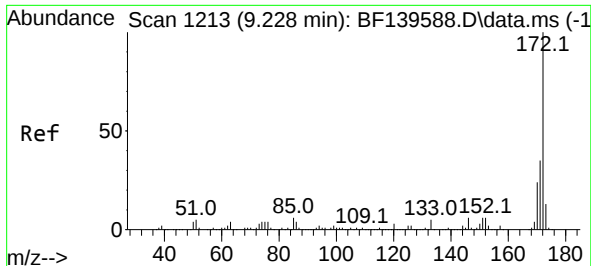


#42
2,4,6-Tribromophenol
Concen: 17.880 ng
RT: 10.686 min Scan# 1461
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52



Tgt Ion:330 Resp: 30348
Ion Ratio Lower Upper
330 100
332 97.1 76.5 114.7
141 40.0 29.3 43.9





#45

2-Fluorobiphenyl

Concen: 15.599 ng

RT: 9.216 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

SB-01-2.5-3.0DL

Tgt Ion:172 Resp: 17865

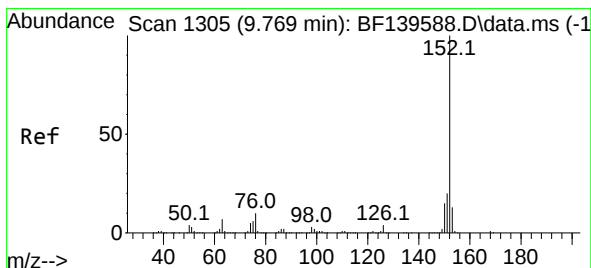
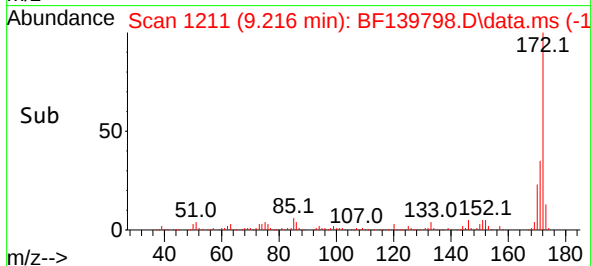
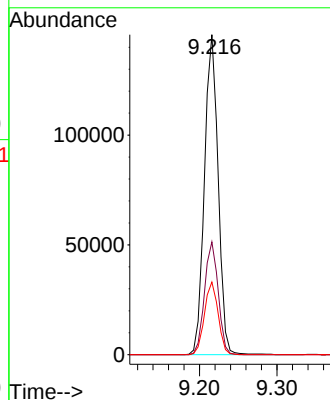
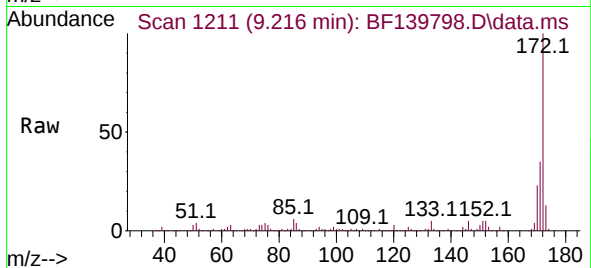
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	22.7	18.8	28.2

Manual Integrations

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#49

Acenaphthylene

Concen: 2.681 ng

RT: 9.757 min Scan# 1303

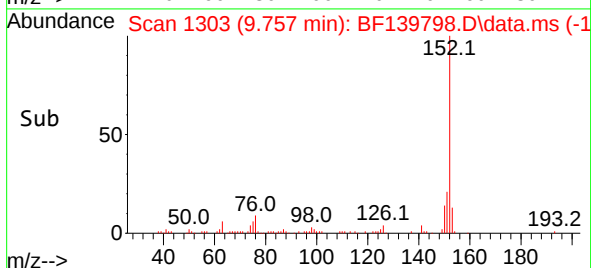
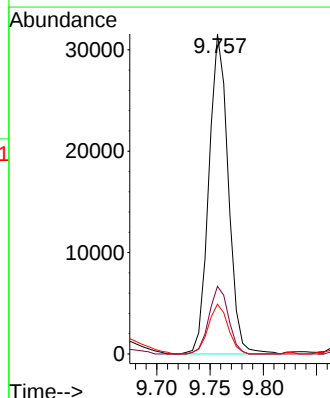
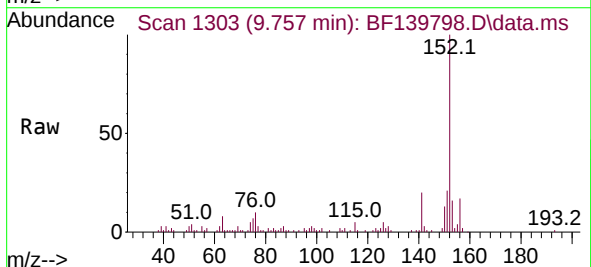
Delta R.T. -0.012 min

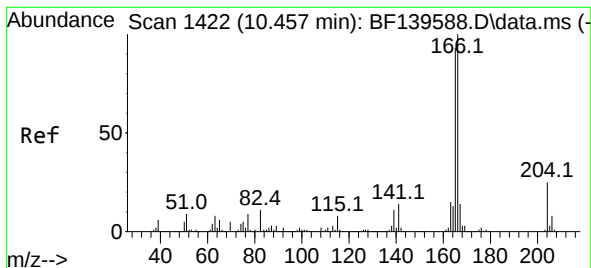
Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Tgt Ion:152 Resp: 39975

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.0	24.0
153	15.5	10.5	15.7





#58

Fluorene

Concen: 3.532 ng

RT: 10.445 min Scan# 1422

Delta R.T. -0.012 min

Lab File: BF139798.D

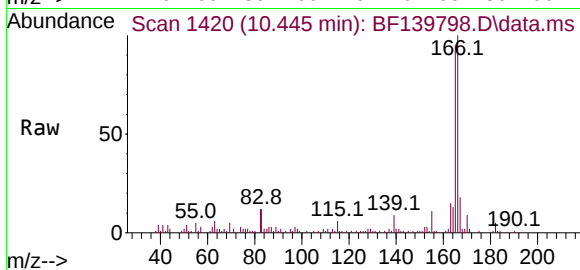
Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

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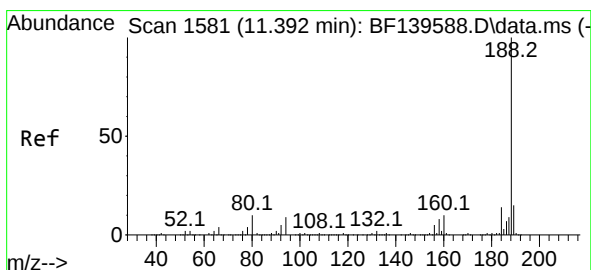
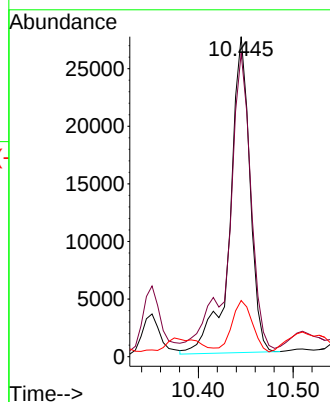
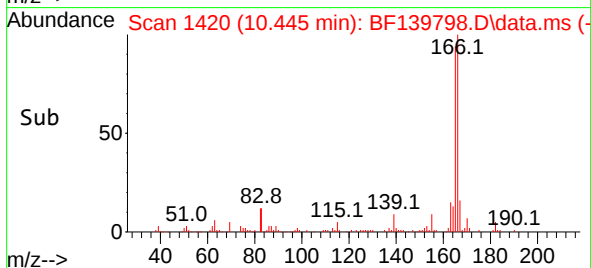
Tgt Ion:166	Resp:	40319
Ion Ratio	Lower	Upper
166	100	
165	94.8	74.4 111.6
167	17.6	10.9 16.3

Manual Integrations

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Supervised By :mohammad ahmed 10/15/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

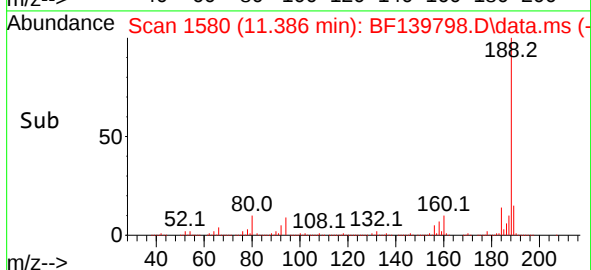
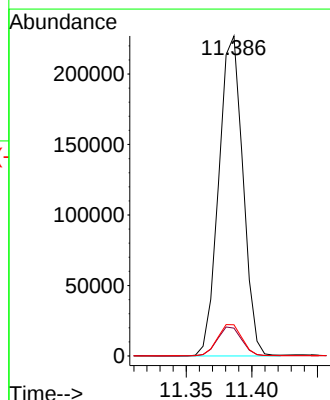
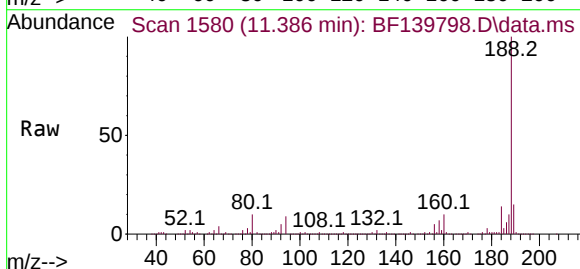
RT: 11.386 min Scan# 1580

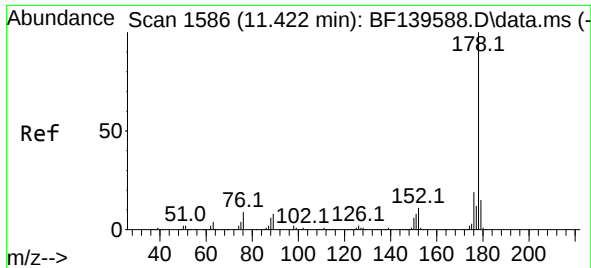
Delta R.T. -0.006 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

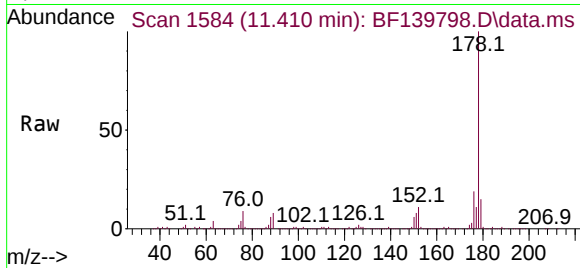
Tgt Ion:188	Resp:	290604
Ion Ratio	Lower	Upper
188	100	
94	8.7	7.4 11.2
80	9.7	8.2 12.2





#71
Phenanthrene
Concen: 25.097 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

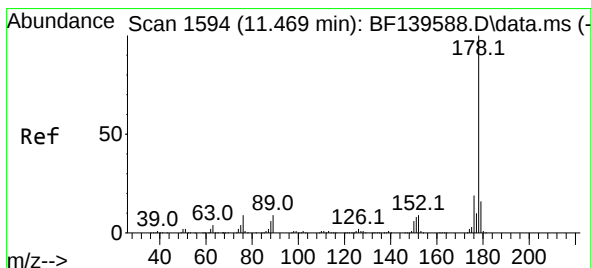
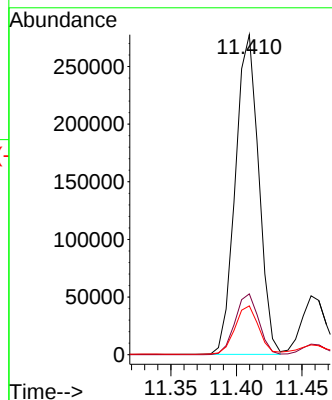
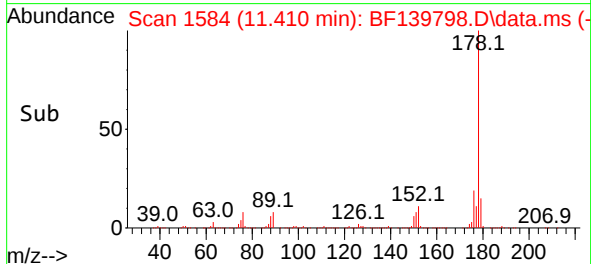
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



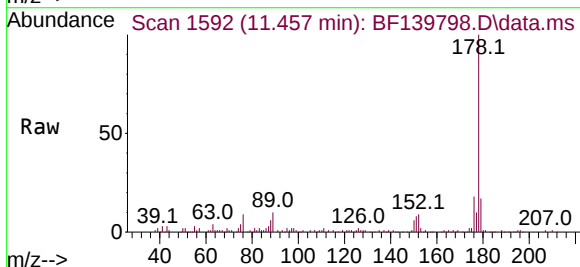
Tgt Ion:178 Resp: 343878
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.3 12.3 18.5

Manual Integrations
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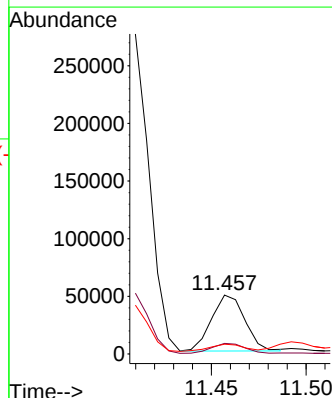
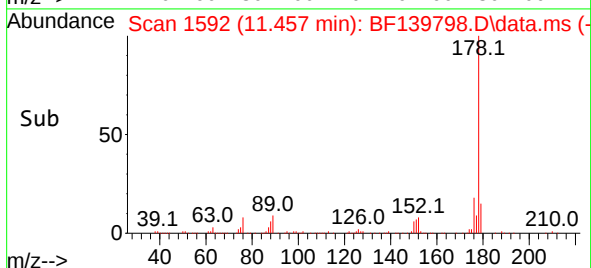
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024

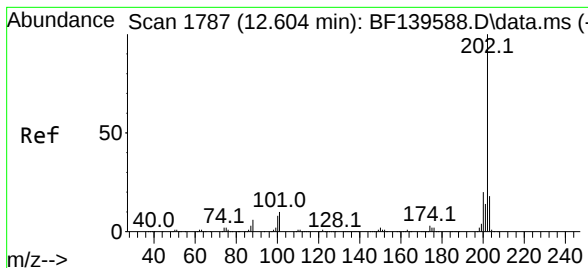


#72
Anthracene
Concen: 4.393 ng
RT: 11.457 min Scan# 1592
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52



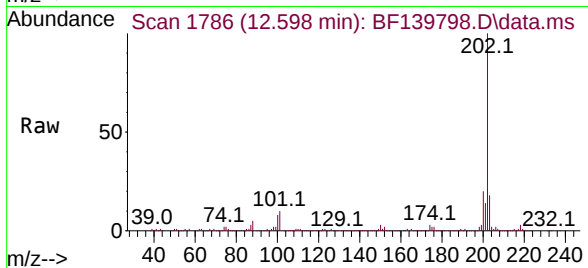
Tgt Ion:178 Resp: 59550
Ion Ratio Lower Upper
178 100
176 18.1 15.1 22.7
179 16.6 12.5 18.7





#75
Fluoranthene
Concen: 19.013 ng
RT: 12.598 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

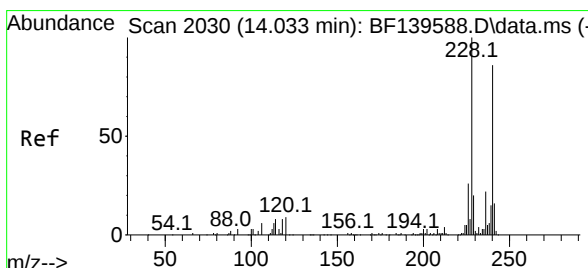
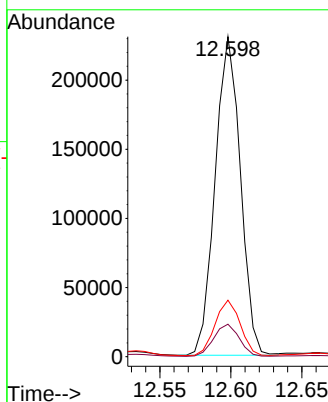
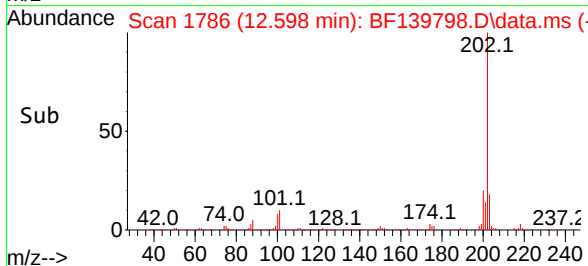
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



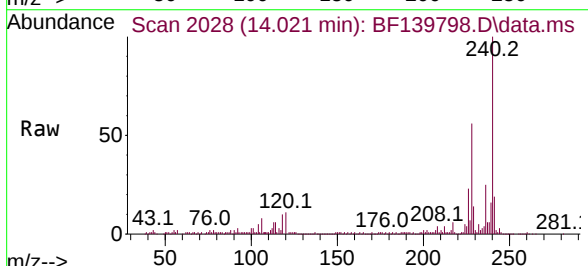
Tgt Ion:202 Resp: 28479
Ion Ratio Lower Upper
202 100
101 10.2 0.0 30.2
203 17.6 0.0 37.7

Manual Integrations
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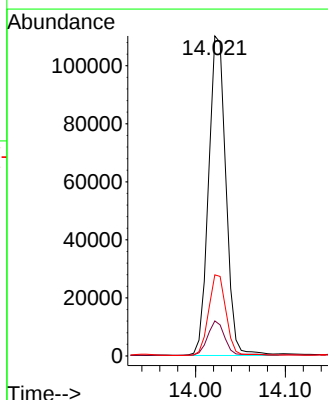
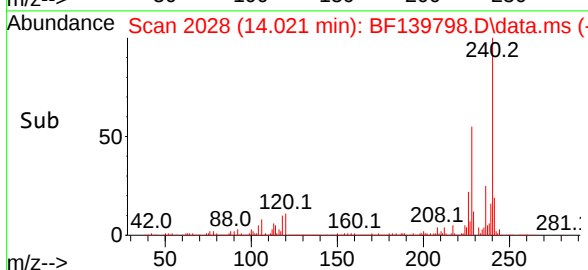
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024

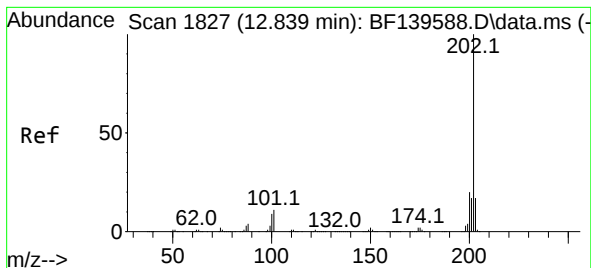


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52



Tgt Ion:240 Resp: 148177
Ion Ratio Lower Upper
240 100
120 10.9 8.4 12.6
236 25.3 20.3 30.5





#78

Pyrene

Concen: 25.791 ng

RT: 12.827 min Scan# 1825

Delta R.T. -0.012 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

SB-01-2.5-3.0DL

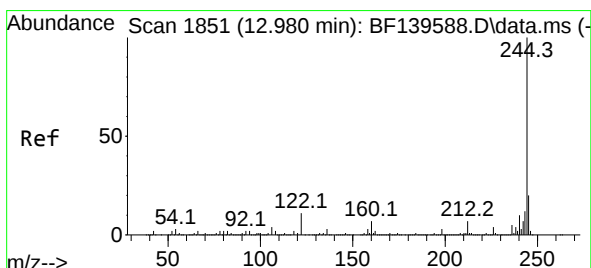
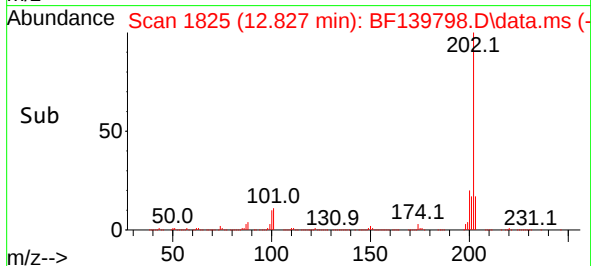
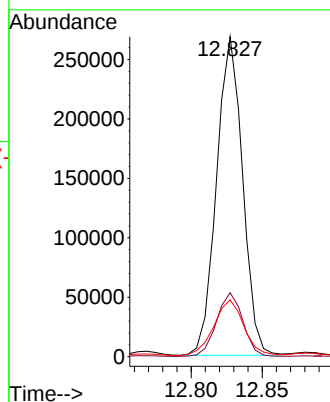
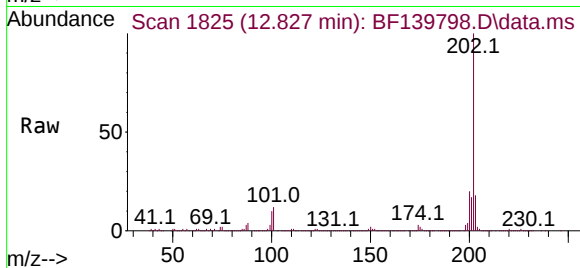
Tgt Ion:	202	Resp:	34180
Ion Ratio	Lower	Upper	
202	100		
200	20.0	15.8	23.6
203	17.7	13.8	20.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/15/2024

Supervised By :mohammad ahmed 10/15/2024



#79

Terphenyl-d14

Concen: 14.369 ng

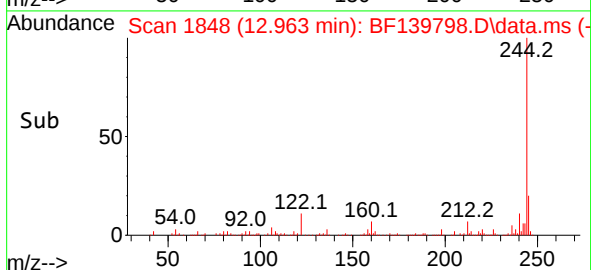
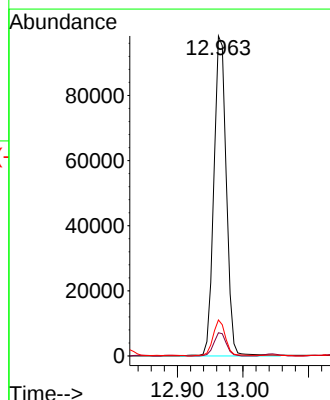
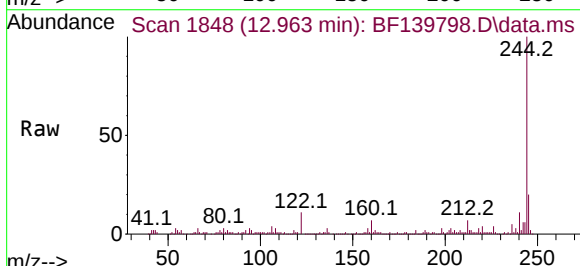
RT: 12.963 min Scan# 1848

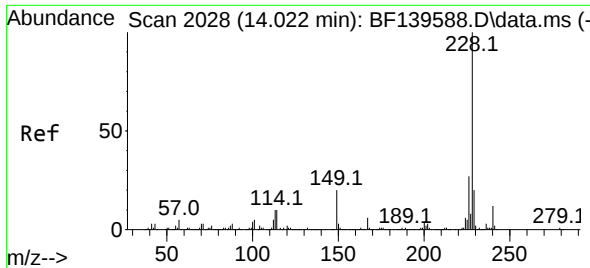
Delta R.T. -0.017 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

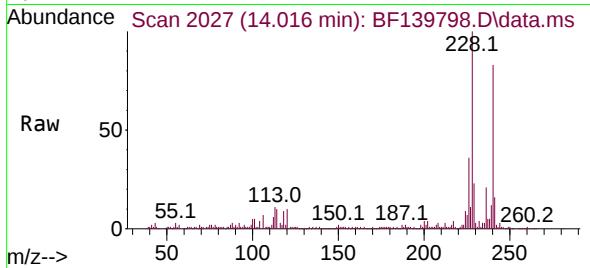
Tgt Ion:	244	Resp:	129765
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.8	8.6
122	11.3	8.6	12.8





#81
Benzo(a)anthracene
Concen: 12.866 ng m
RT: 14.016 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

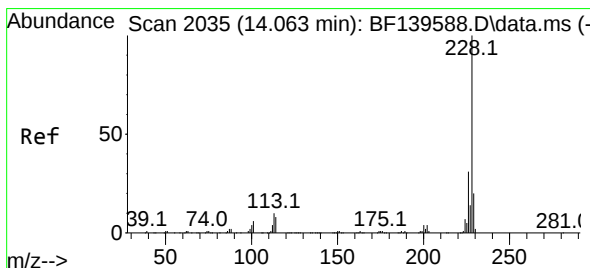
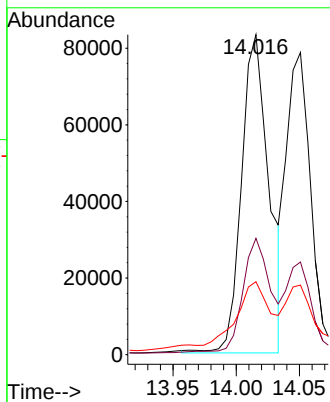
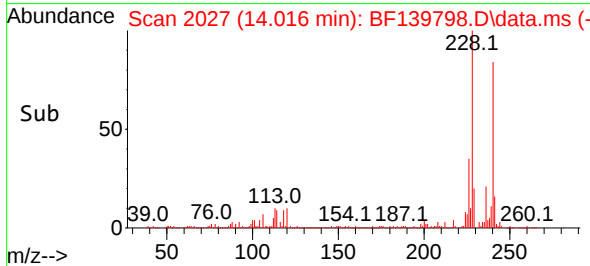
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



Tgt Ion:228 Resp: 125337
Ion Ratio Lower Upper
228 100
226 36.4 21.8 32.8
229 22.8 15.8 23.8

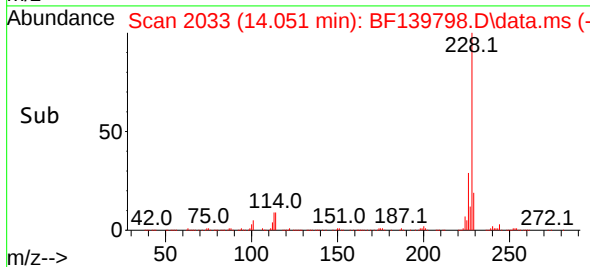
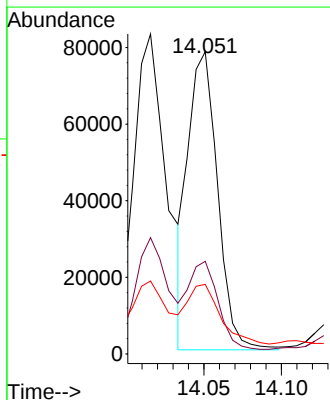
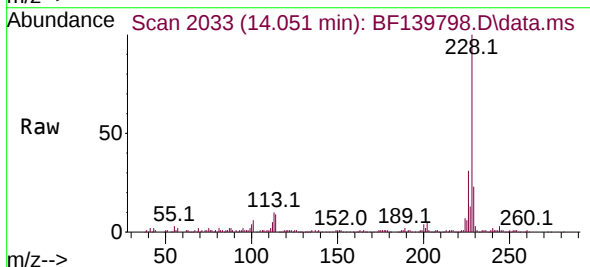
Manual Integrations
APPROVED

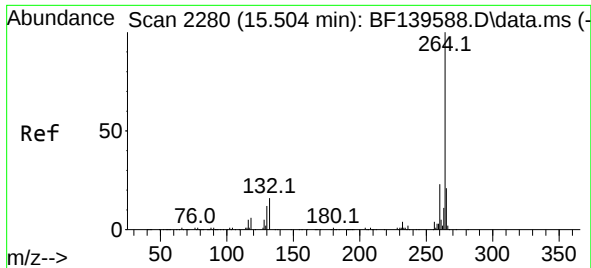
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024



#83
Chrysene
Concen: 11.559 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

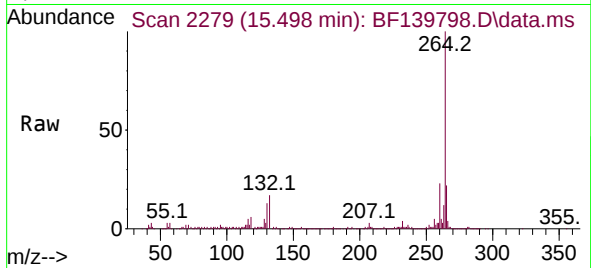
Tgt Ion:228 Resp: 102952
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 23.0 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.498 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52

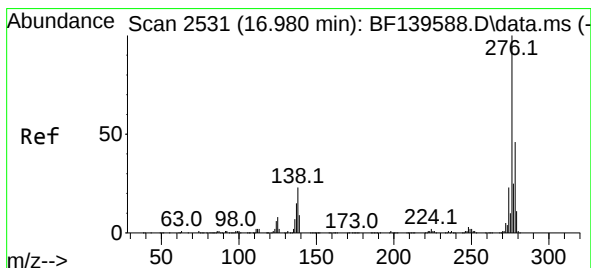
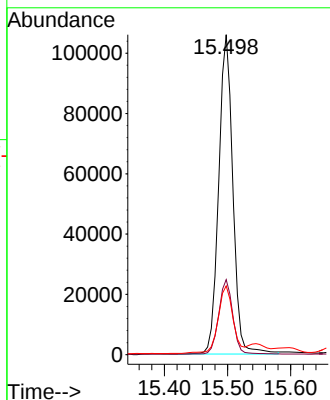
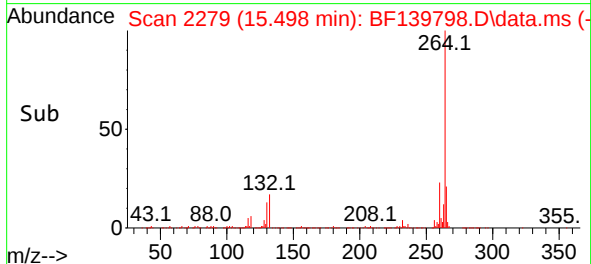
Instrument :
BNA_F
ClientSampleId :
SB-01-2.5-3.0DL



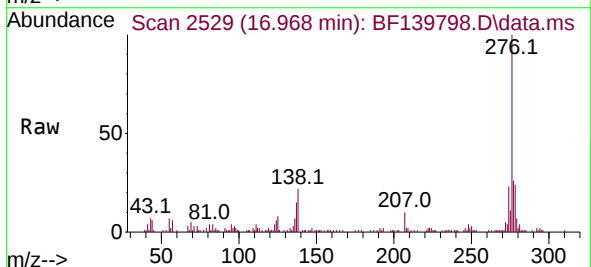
Tgt Ion:264 Resp: 165318
Ion Ratio Lower Upper
264 100
260 23.5 18.7 28.1
265 21.5 16.9 25.3

Manual Integrations
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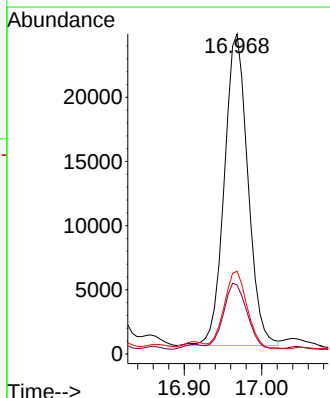
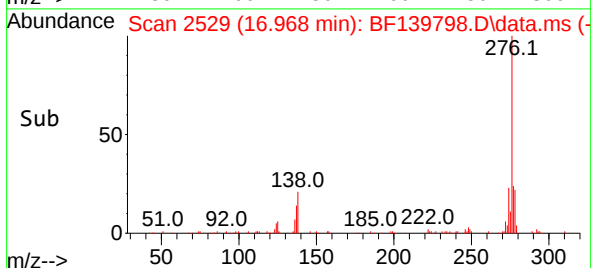
Reviewed By :Yogesh Patel 10/15/2024
Supervised By :mohammad ahmed 10/15/2024

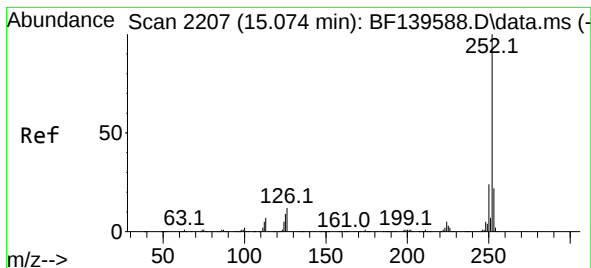


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.280 ng
RT: 16.968 min Scan# 2529
Delta R.T. -0.012 min
Lab File: BF139798.D
Acq: 14 Oct 2024 19:52



Tgt Ion:276 Resp: 51375
Ion Ratio Lower Upper
276 100
138 21.8 19.4 29.0
277 24.4 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 11.054 ng m

RT: 15.068 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

SB-01-2.5-3.0DL

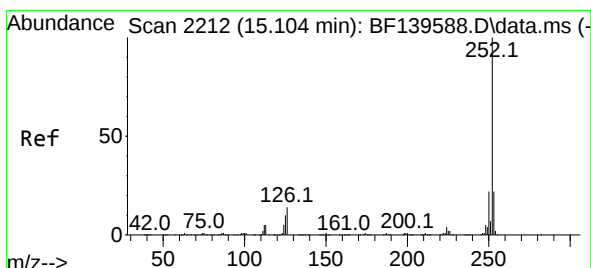
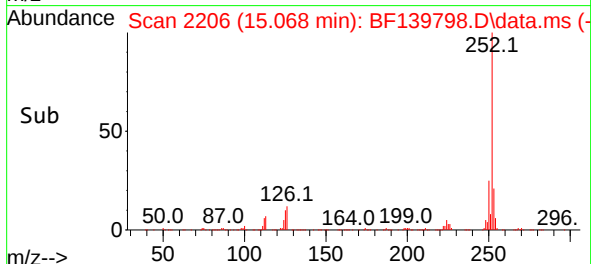
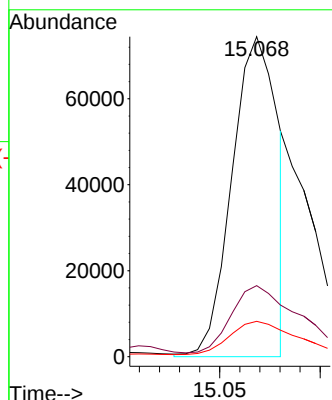
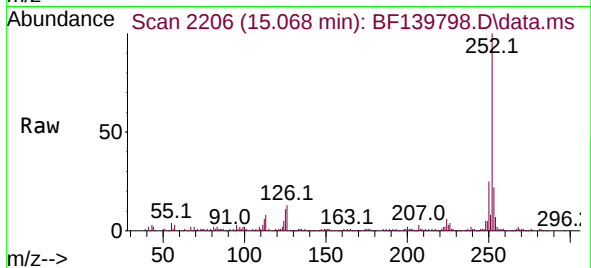
Tgt Ion:252 Resp: 118154
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.4 26.0
 125 11.1 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/15/2024

Supervised By :mohammad ahmed 10/15/2024



#89

Benzo(k)fluoranthene

Concen: 5.424 ng m

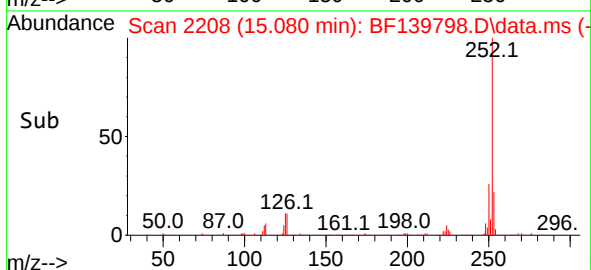
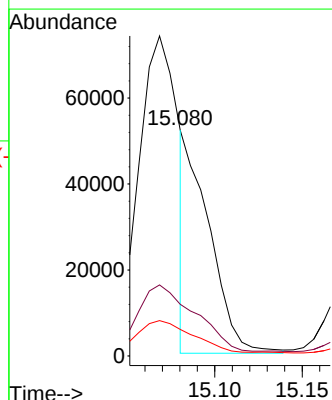
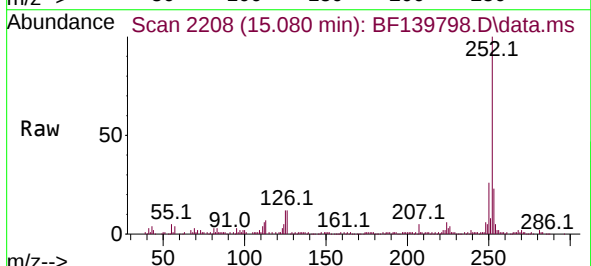
RT: 15.080 min Scan# 2208

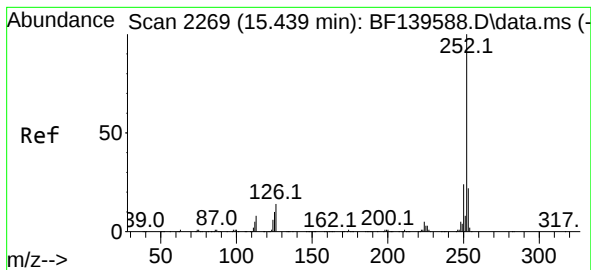
Delta R.T. -0.024 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Tgt Ion:252 Resp: 49181
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.5 26.3
 125 11.7 7.6 11.4





#90

Benzo(a)pyrene

Concen: 12.132 ng

RT: 15.433 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Instrument :

BNA_F

ClientSampleId :

SB-01-2.5-3.0DL

Tgt Ion:252 Resp: 10225

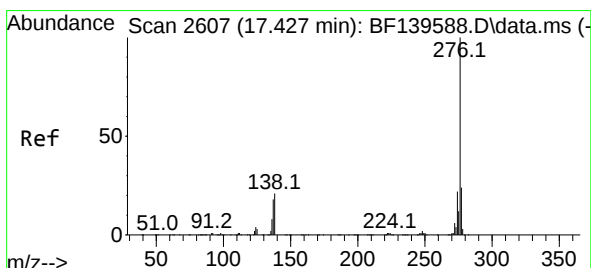
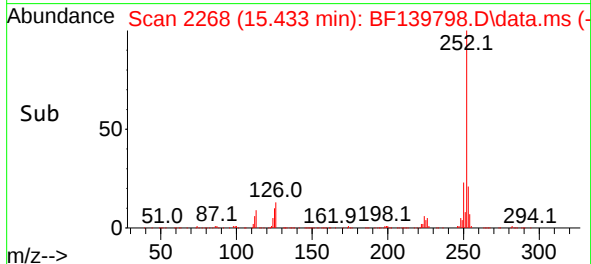
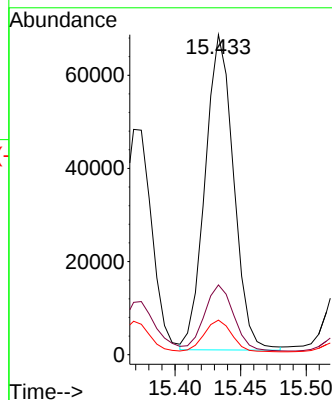
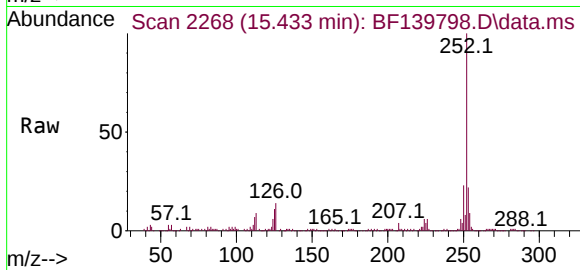
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9
125	10.8	8.3	12.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/15/2024

Supervised By :mohammad ahmed 10/15/2024



#92

Benzo(g,h,i)perylene

Concen: 7.666 ng

RT: 17.415 min Scan# 2605

Delta R.T. -0.012 min

Lab File: BF139798.D

Acq: 14 Oct 2024 19:52

Tgt Ion:276 Resp: 62050

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.0	28.6
138	22.6	17.0	25.6

