

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110423\
 Data File : BM042596.D
 Acq On : 04 Nov 2023 17:53
 Operator : MA/JU
 Sample : 05220-04DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-7(0-5)DL

Quant Time: Nov 06 01:47:44 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/06/2023
 Supervised By :mohammad ahmed 11/07/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.910	152	46041	20.000	ng	0.00
21) Naphthalene-d8	10.734	136	179736	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	121528	20.000	ng	0.00
64) Phenanthrene-d10	17.316	188	283567	20.000	ng	# 0.00
76) Chrysene-d12	21.498	240	291361	20.000	ng	0.00
86) Perylene-d12	23.921	264	317393	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	73376	25.721	ng	0.00
7) Phenol-d6	7.075	99	94956	24.270	ng	0.00
23) Nitrobenzene-d5	9.110	82	65219	16.915	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	48118	30.327	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	144628	16.014	ng	0.00
79) Terphenyl-d14	19.933	244	271391	15.794	ng	0.00
Target Compounds						Qvalue
13) 1,4-Dichlorobenzene	7.951	146	125438	37.281	ng	98
49) Acenaphthylene	14.298	152	77029	6.825	ng	98
52) Acenaphthene	14.628	154	13733	2.005	ng	96
58) Fluorene	15.616	166	24034	2.667	ng	99
71) Phenanthrene	17.363	178	221071	14.918	ng	99
72) Anthracene	17.451	178	128171	8.732	ng	99
75) Fluoranthene	19.374	202	591318	33.969	ng	98
78) Pyrene	19.739	202	591457	29.563	ng	99
81) Benzo(a)anthracene	21.486	228	341885	18.442	ng	96
83) Chrysene	21.539	228	280615	14.902	ng	95
87) Indeno(1,2,3-cd)pyrene	26.444	276	162582	8.607	ng	# 91
88) Benzo(b)fluoranthene	23.174	252	353201	19.974	ng	98
89) Benzo(k)fluoranthene	23.215	252	98917m	5.020	ng	
90) Benzo(a)pyrene	23.809	252	277178	15.922	ng	96
91) Dibenzo(a,h)anthracene	26.456	278	42699	6.375	ng	# 73
92) Benzo(g,h,i)perylene	27.244	276	159366	9.572	ng	96

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

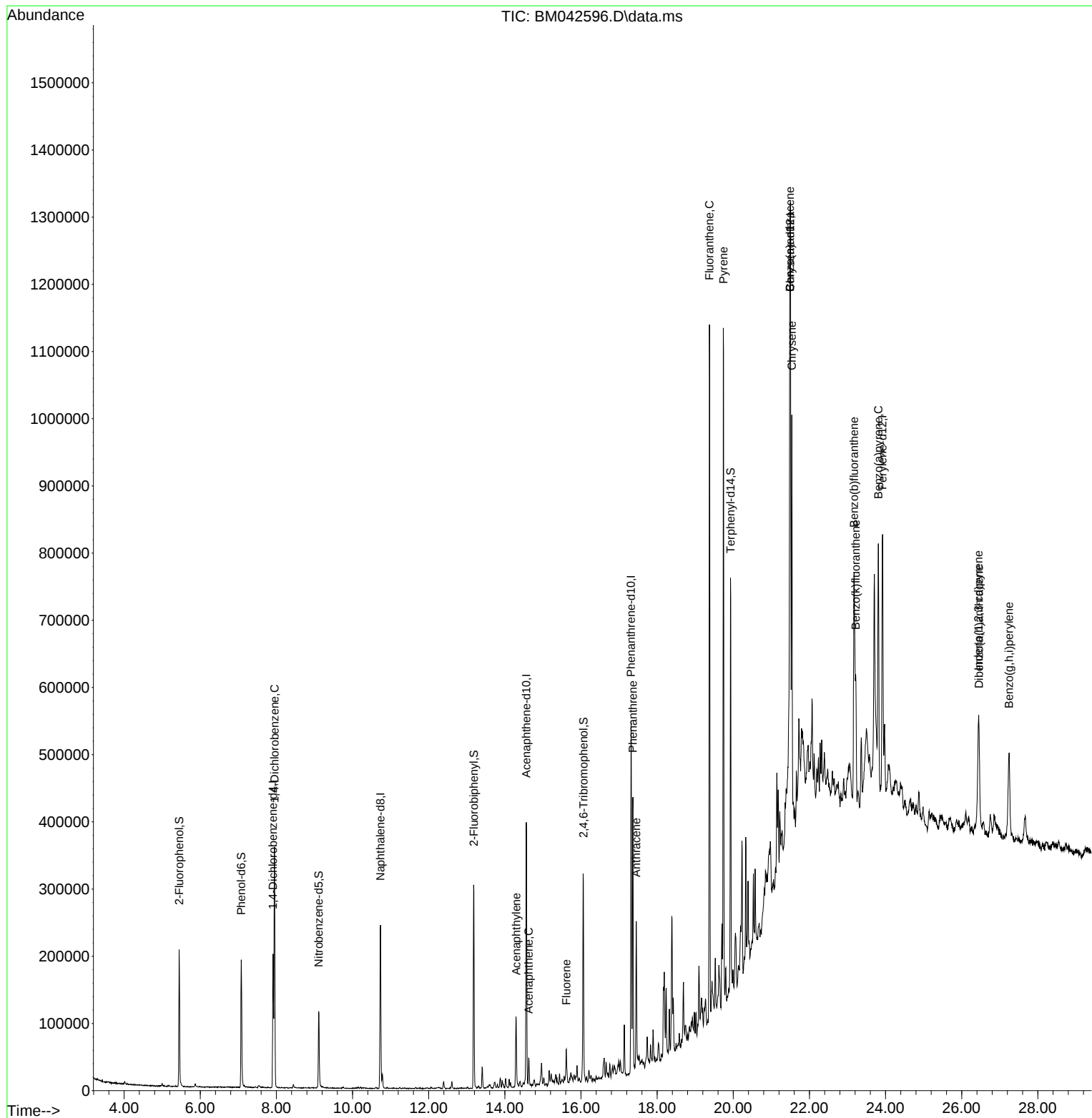
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110423\
Data File : BM042596.D
Acq On : 04 Nov 2023 17:53
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ALS Vial : 13 Sample Multiplier: 1

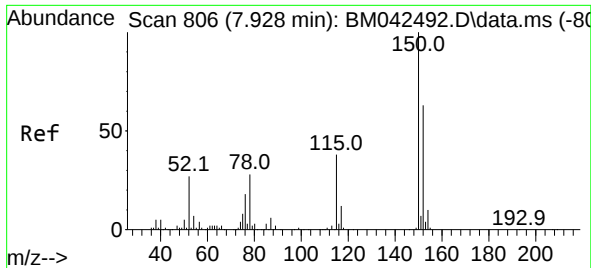
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

Quant Time: Nov 06 01:47:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 03 15:52:20 2023
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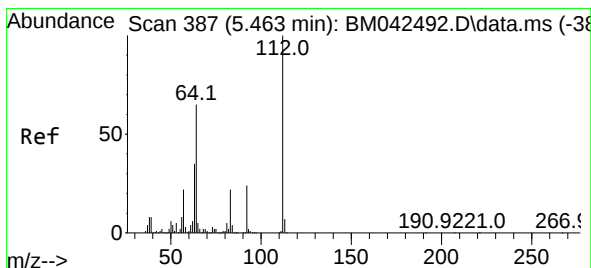
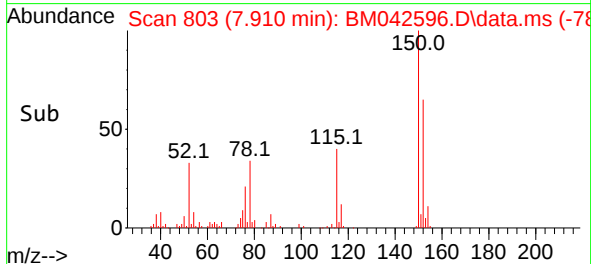
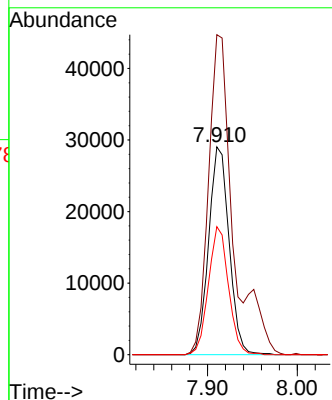
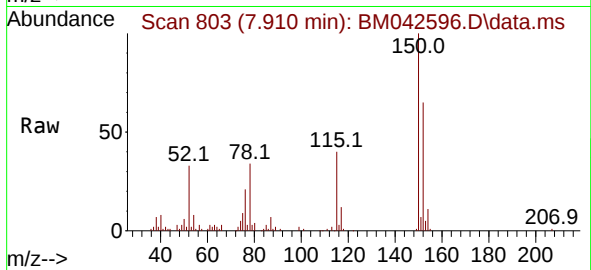
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.910 min Scan# 806
Delta R.T. 0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

Tgt Ion:152 Resp: 4604
Ion Ratio Lower Upper
152 100
150 153.9 127.4 191.0
115 61.6 47.9 71.9

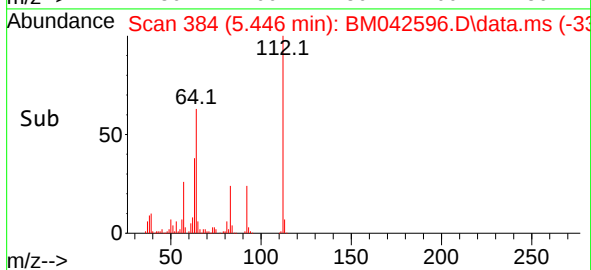
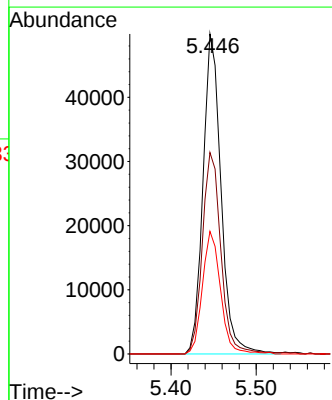
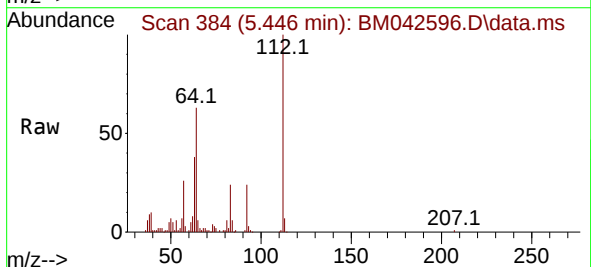
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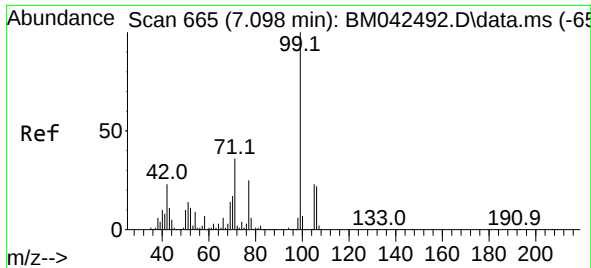
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023



#5
2-Fluorophenol
Concen: 25.721 ng
RT: 5.446 min Scan# 384
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:112 Resp: 73376
Ion Ratio Lower Upper
112 100
64 63.0 52.1 78.1
63 38.3 28.3 42.5





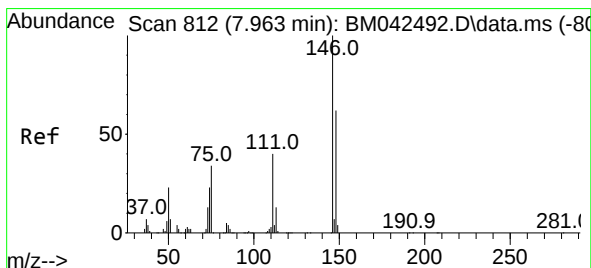
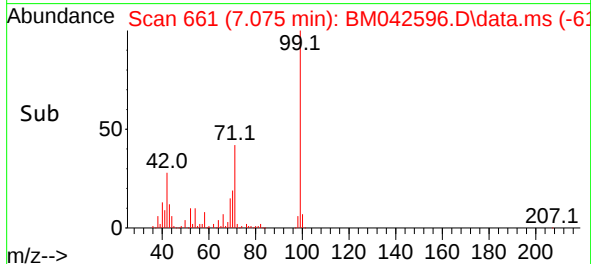
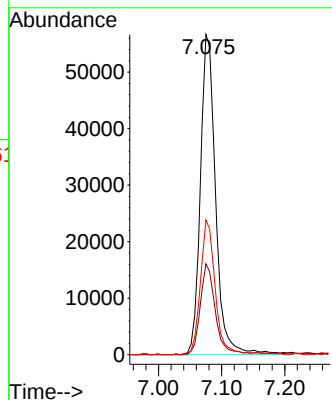
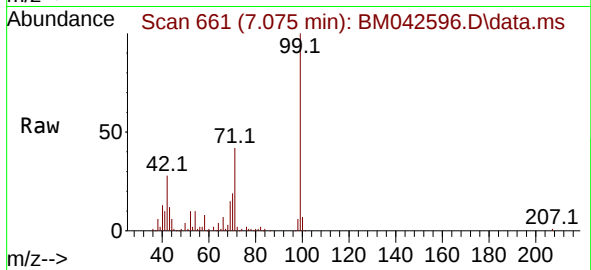
#7
Phenol-d6
Concen: 24.270 ng
RT: 7.075 min Scan# 60
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

Tgt Ion: 99 Resp: 94950
Ion Ratio Lower Upper
99 100
42 28.4 18.7 28.1
71 42.0 29.1 43.7

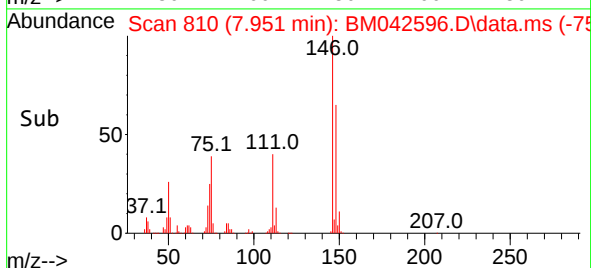
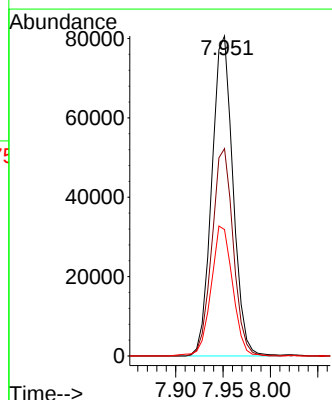
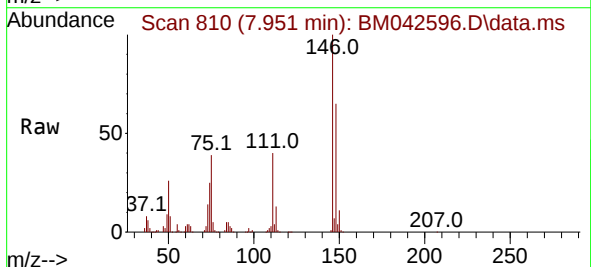
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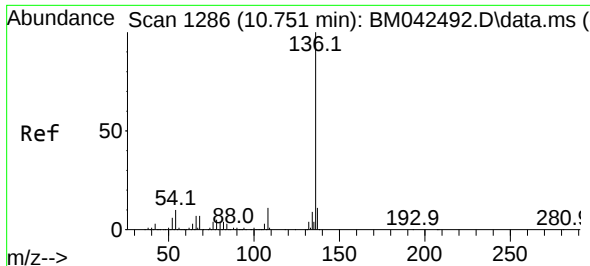
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023



#13
1,4-Dichlorobenzene
Concen: 37.281 ng
RT: 7.951 min Scan# 810
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

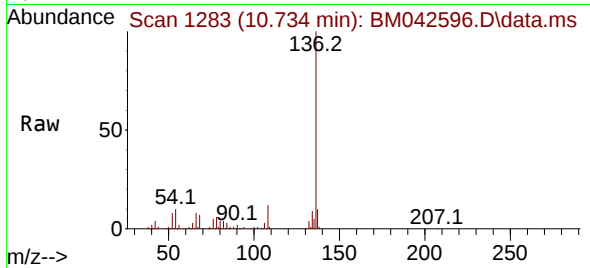
Tgt Ion:146 Resp: 125438
Ion Ratio Lower Upper
146 100
148 64.8 50.0 75.0
111 39.5 32.5 48.7





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.734 min Scan# 1007
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

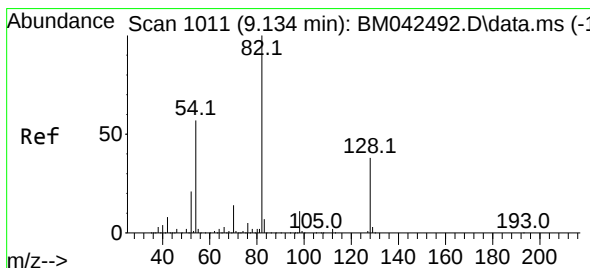
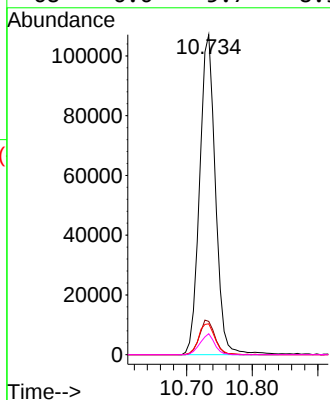
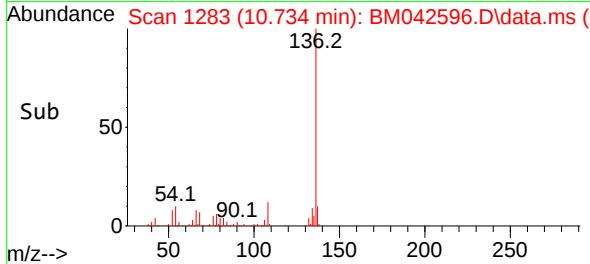
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL



Tgt Ion:136 Resp: 179730
Ion Ratio Lower Upper
136 100
137 10.4 9.0 13.6
54 9.7 8.0 12.0
68 6.6 5.7 8.5

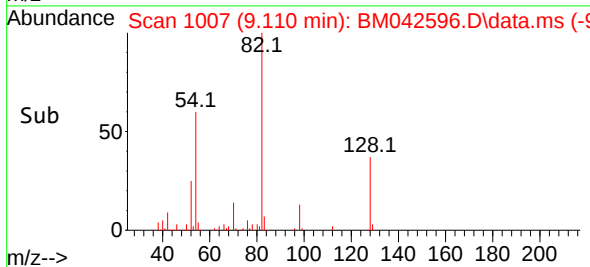
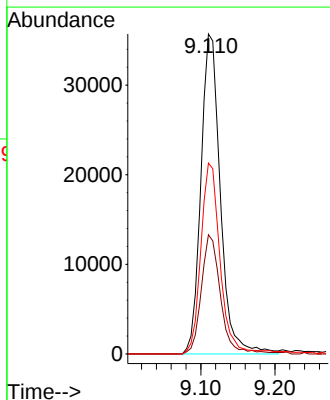
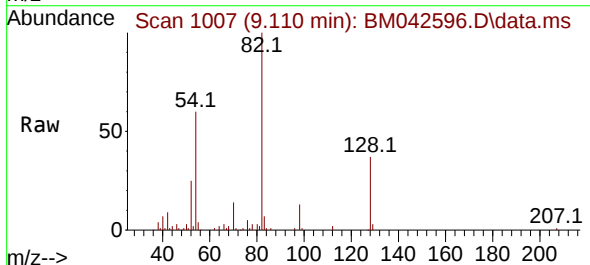
Manual Integrations
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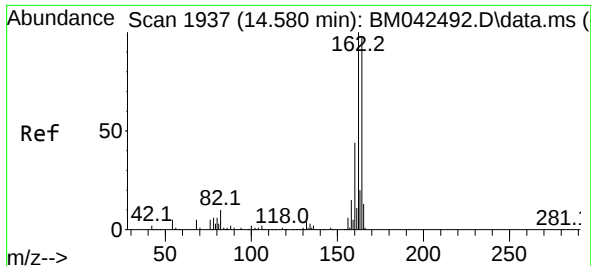
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023



#23
Nitrobenzene-d5
Concen: 16.915 ng
RT: 9.110 min Scan# 1007
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

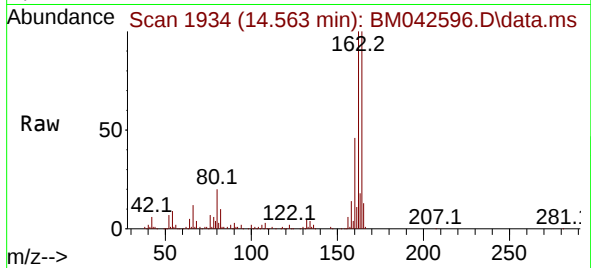
Tgt Ion: 82 Resp: 65219
Ion Ratio Lower Upper
82 100
128 37.3 30.7 46.1
54 59.7 45.3 67.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1934
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

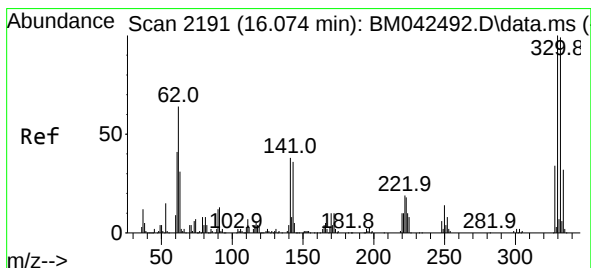
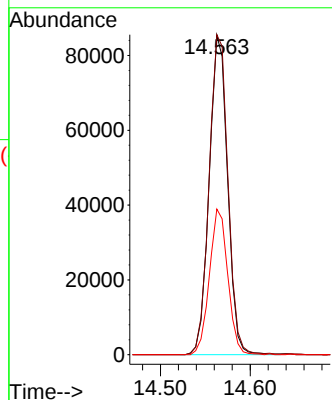
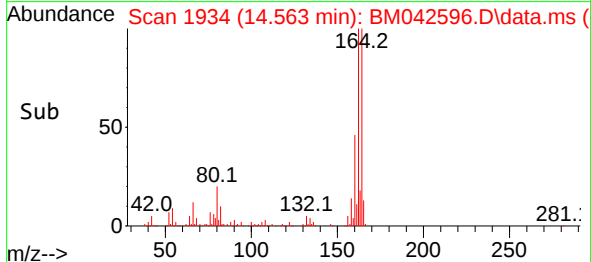
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL



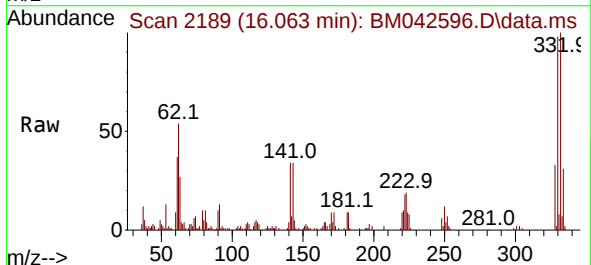
Tgt Ion:164 Resp: 121528
Ion Ratio Lower Upper
164 100
162 100.2 81.6 122.4
160 45.6 36.2 54.4

Manual Integrations
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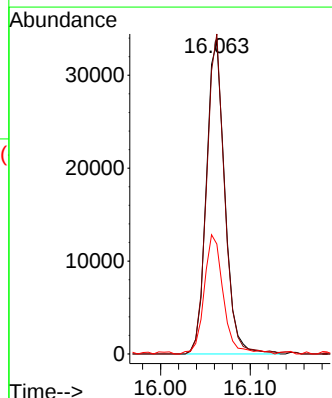
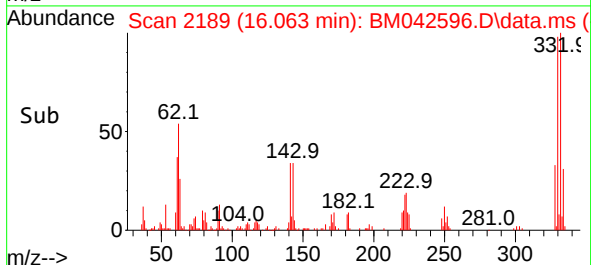
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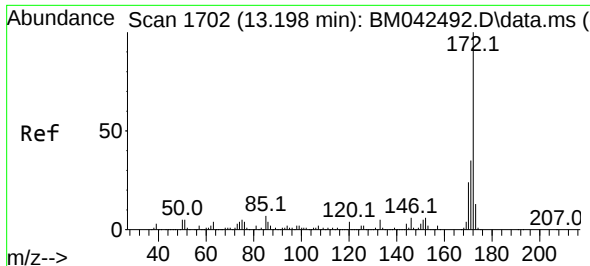


#42
2,4,6-Tribromophenol
Concen: 30.327 ng
RT: 16.063 min Scan# 2189
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53



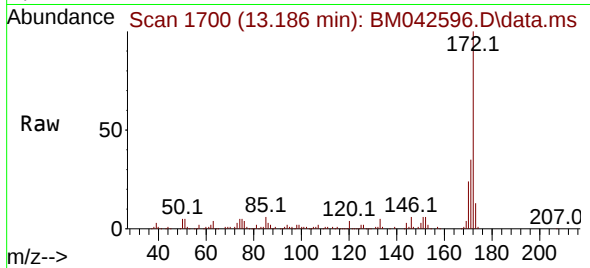
Tgt Ion:330 Resp: 48118
Ion Ratio Lower Upper
330 100
332 99.2 78.8 118.2
141 39.5 31.1 46.7





#45
2-Fluorobiphenyl
Concen: 16.014 ng
RT: 13.186 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

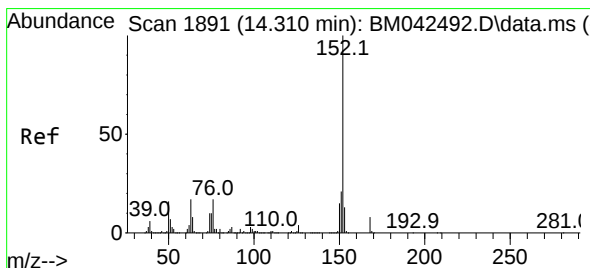
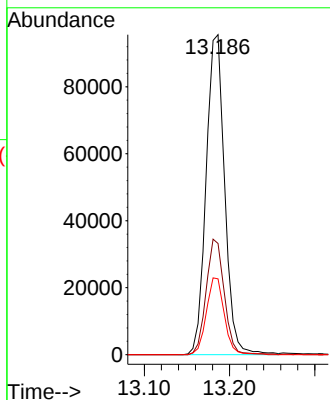
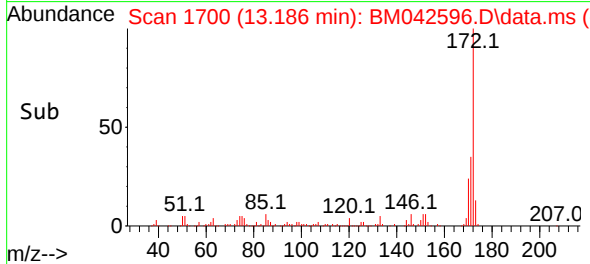
Instrument :
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Z-7(0-5)DL



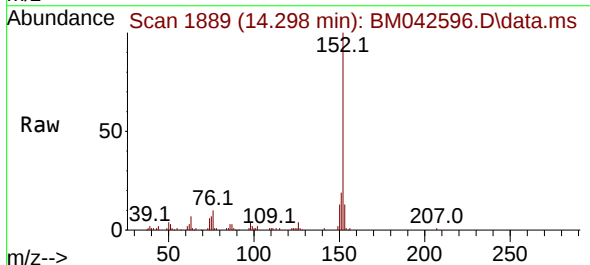
Tgt Ion:172 Resp: 144628
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 23.7 19.0 28.4

Manual Integrations
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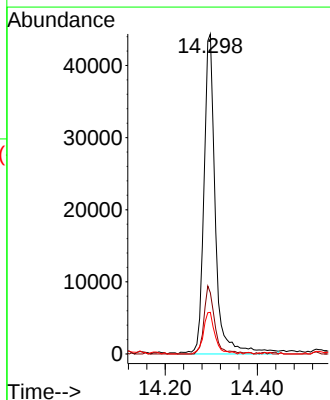
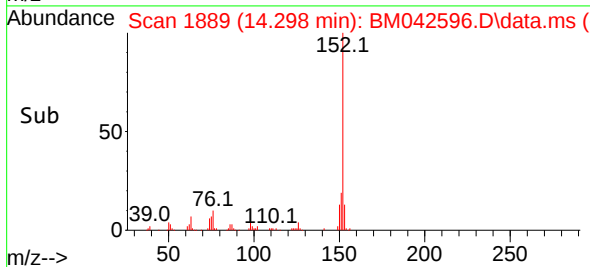
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023

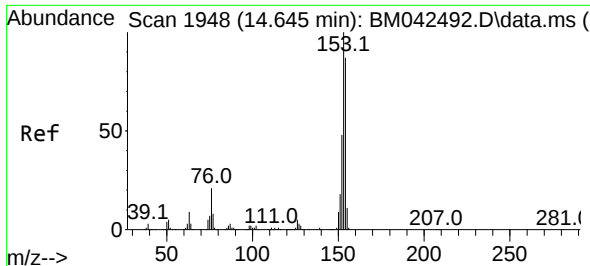


#49
Acenaphthylene
Concen: 6.825 ng
RT: 14.298 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53



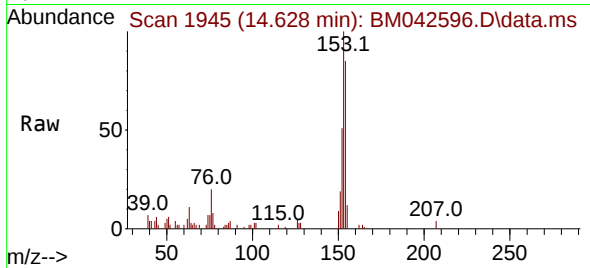
Tgt Ion:152 Resp: 77029
Ion Ratio Lower Upper
152 100
151 19.1 16.4 24.6
153 13.0 10.4 15.6





#52
Acenaphthene
Concen: 2.005 ng
RT: 14.628 min Scan# 1945
Delta R.T. -0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

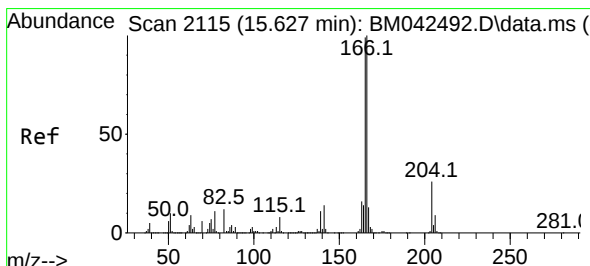
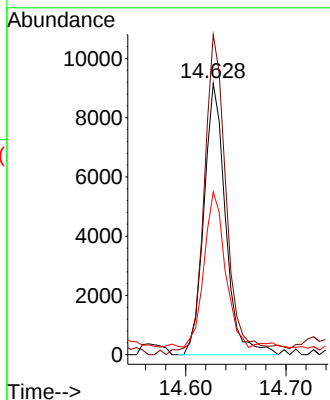
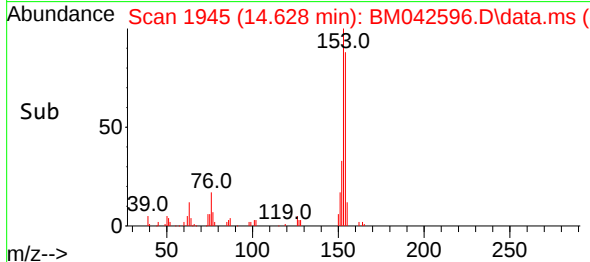
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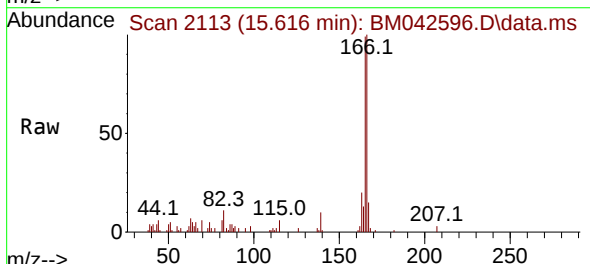
Tgt Ion:154 Resp: 1373
Ion Ratio Lower Upper
154 100
153 117.9 92.0 138.0
152 60.0 44.0 66.0

Manual Integrations
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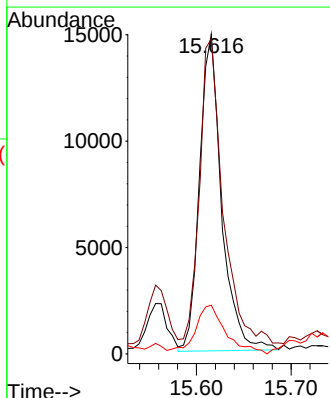
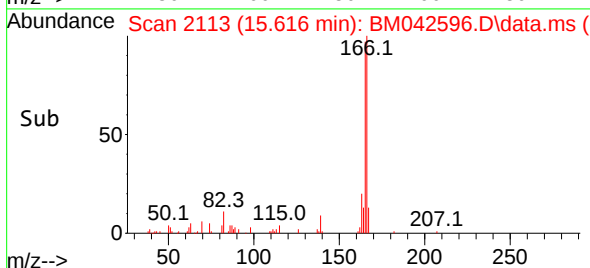
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023

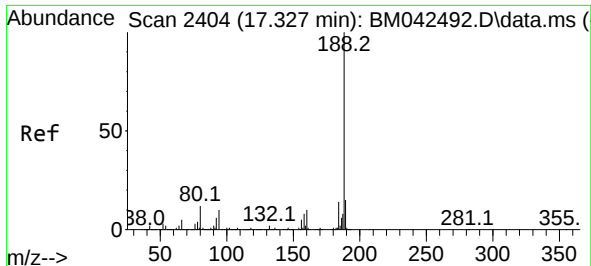


#58
Fluorene
Concen: 2.667 ng
RT: 15.616 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53



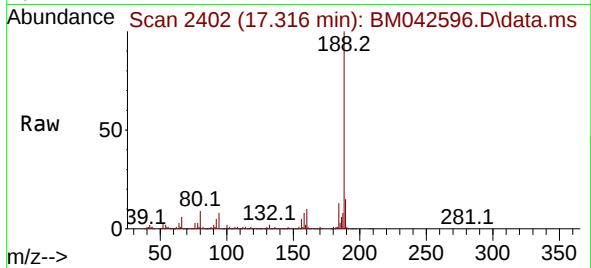
Tgt Ion:166 Resp: 24034
Ion Ratio Lower Upper
166 100
165 98.5 79.3 118.9
167 15.3 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.316 min Scan# 2404
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

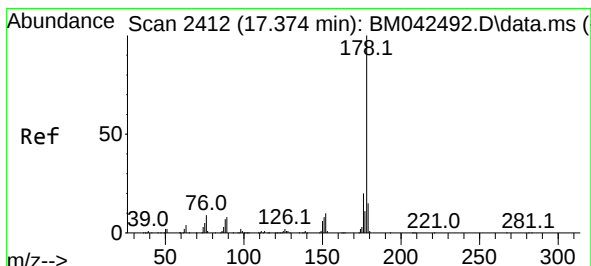
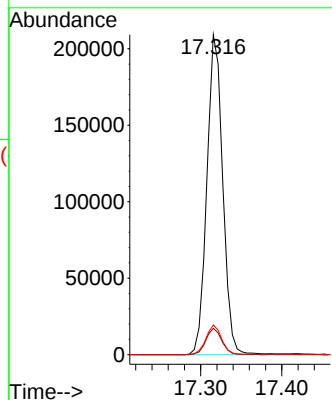
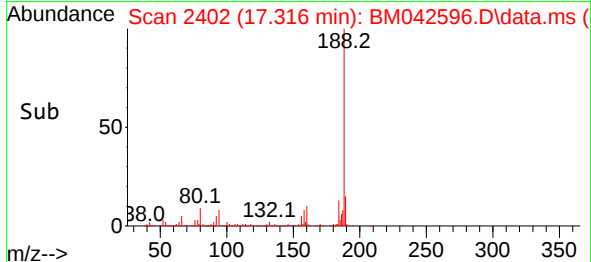
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL



Tgt Ion:188 Resp: 28356
Ion Ratio Lower Upper
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94 8.2 8.2 12.4
80 9.3 9.4 14.2

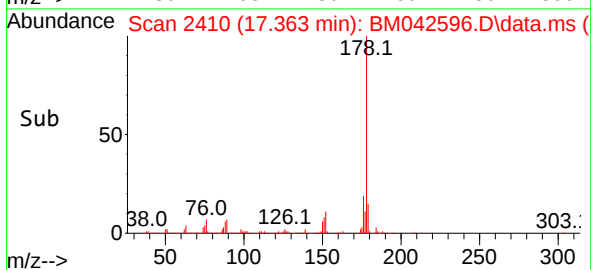
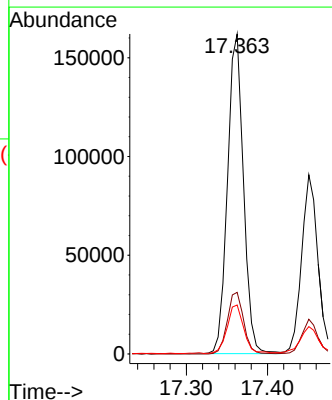
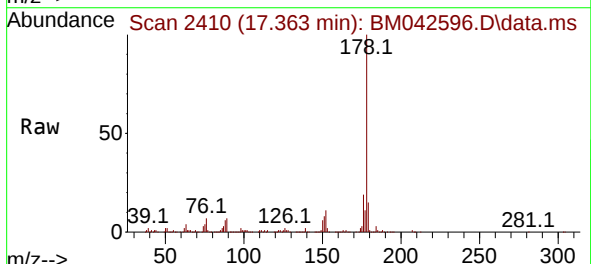
Manual Integrations
APPROVED

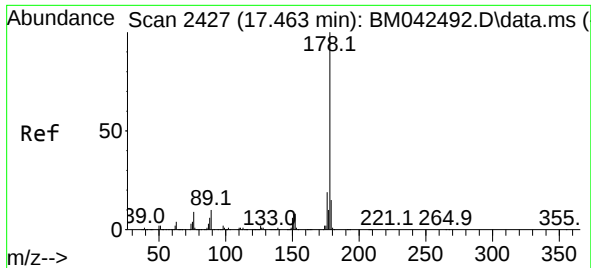
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023



#71
Phenanthrene
Concen: 14.918 ng
RT: 17.363 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

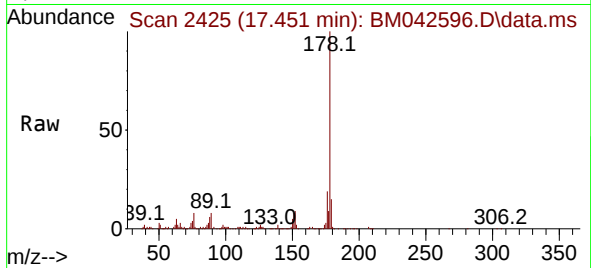
Tgt Ion:178 Resp: 221071
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.3 12.2 18.4





#72
 Anthracene
 Concen: 8.732 ng
 RT: 17.451 min Scan# 2427
 Delta R.T. -0.000 min
 Lab File: BM042596.D
 Acq: 04 Nov 2023 17:53

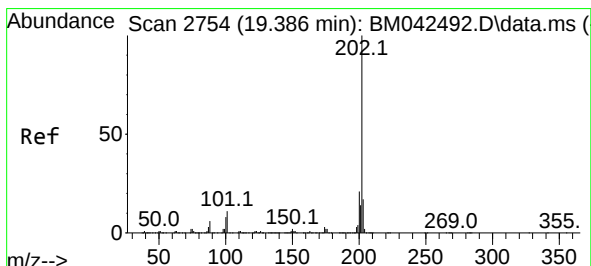
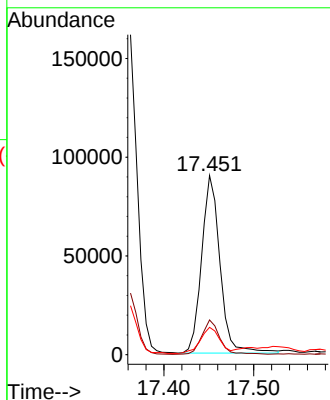
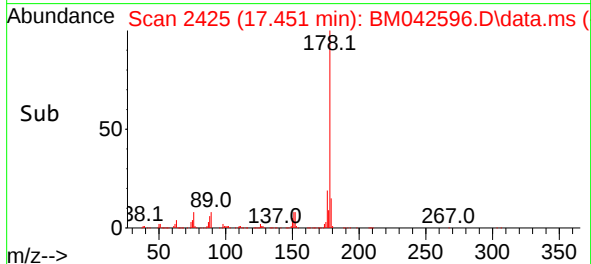
Instrument :
 BNA_M
 ClientSampleId :
 Z-7(0-5)DL



Tgt Ion:178 Resp: 12817
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.2 22.8
 179 15.2 12.3 18.5

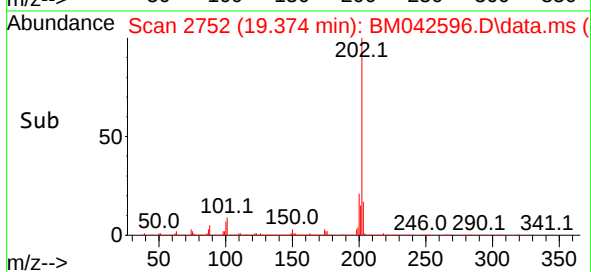
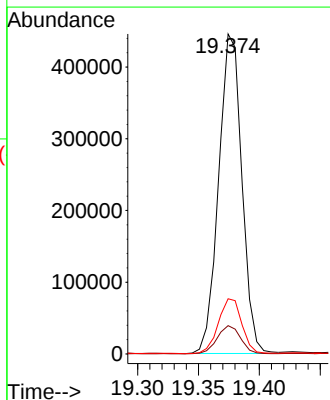
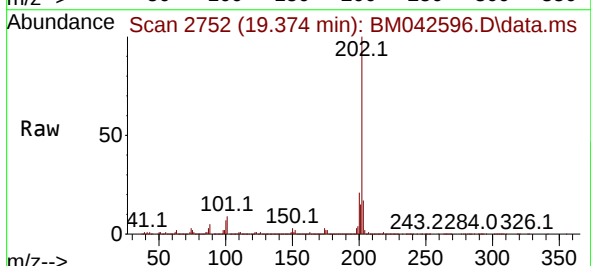
Manual Integrations
 APPROVED

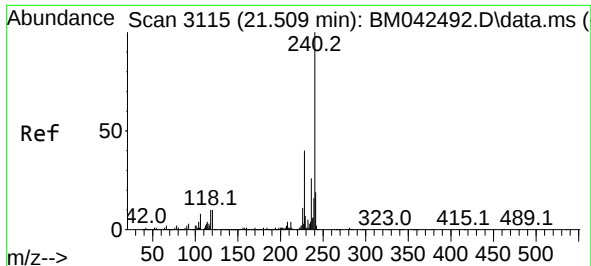
Reviewed By :Yogesh Patel 11/06/2023
 Supervised By :mohammad ahmed 11/07/2023



#75
 Fluoranthene
 Concen: 33.969 ng
 RT: 19.374 min Scan# 2752
 Delta R.T. -0.000 min
 Lab File: BM042596.D
 Acq: 04 Nov 2023 17:53

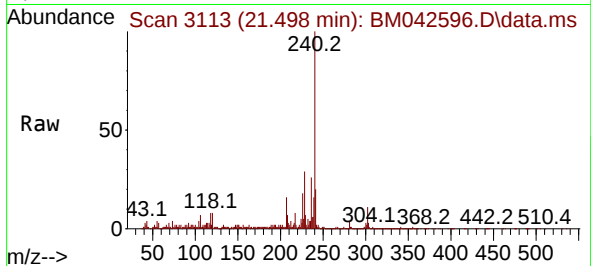
Tgt Ion:202 Resp: 591318
 Ion Ratio Lower Upper
 202 100
 101 8.8 0.0 30.5
 203 17.2 0.0 37.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.498 min Scan# 3115
Delta R.T. -0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

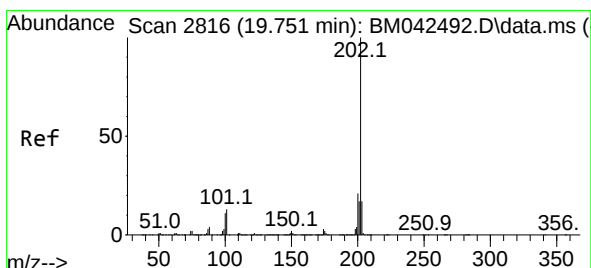
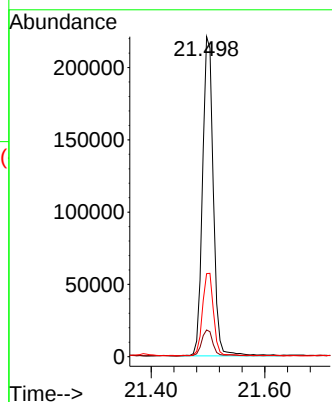
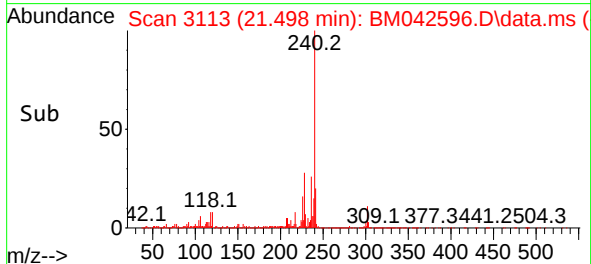
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL



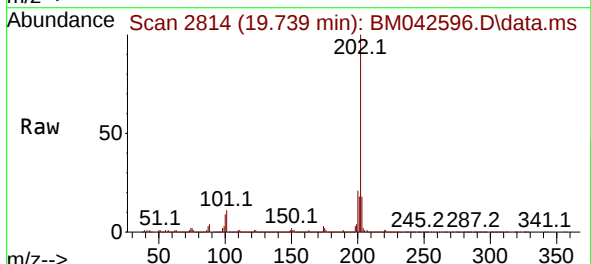
Tgt Ion:240 Resp: 29136
Ion Ratio Lower Upper
240 100
120 8.4 8.3 12.5
236 25.9 20.8 31.2

Manual Integrations
APPROVED

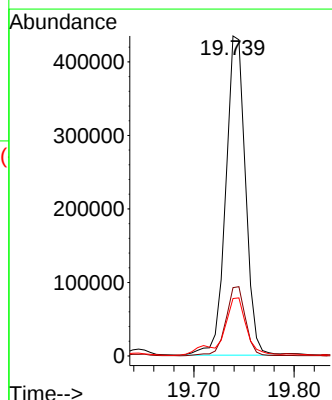
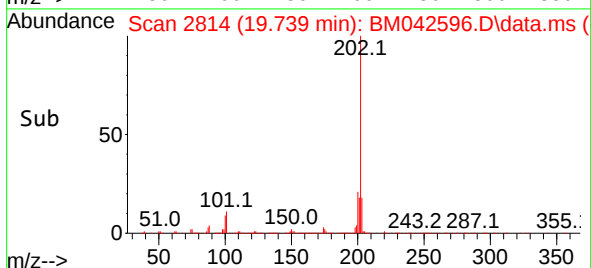
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023

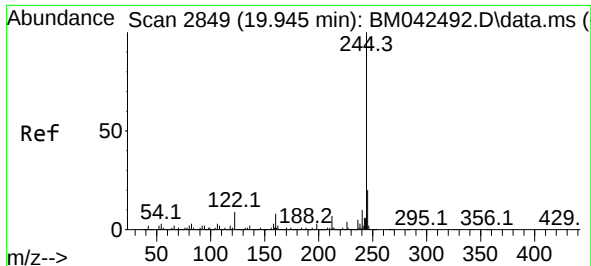


#78
Pyrene
Concen: 29.563 ng
RT: 19.739 min Scan# 2814
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53



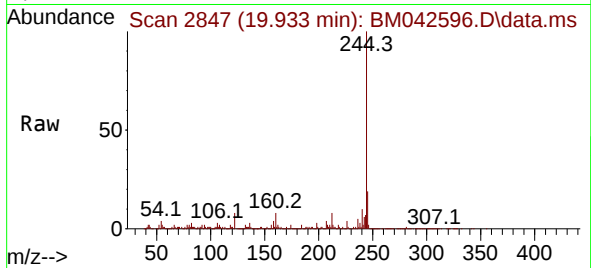
Tgt Ion:202 Resp: 591457
Ion Ratio Lower Upper
202 100
200 21.4 16.9 25.3
203 18.0 13.7 20.5





#79
 Terphenyl-d14
 Concen: 15.794 ng
 RT: 19.933 min Scan# 2847
 Delta R.T. -0.000 min
 Lab File: BM042596.D
 Acq: 04 Nov 2023 17:53

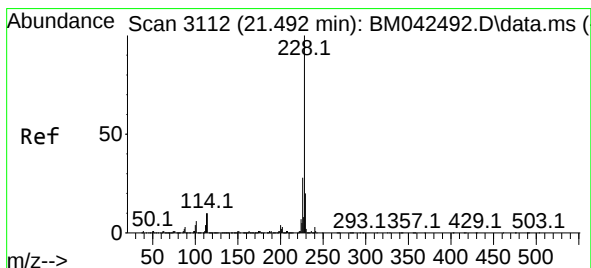
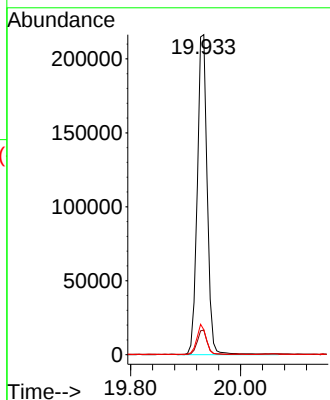
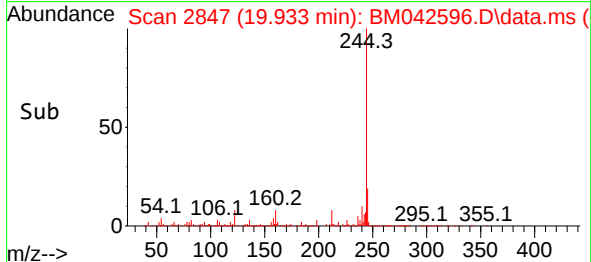
Instrument :
 BNA_M
 ClientSampleId :
 Z-7(0-5)DL



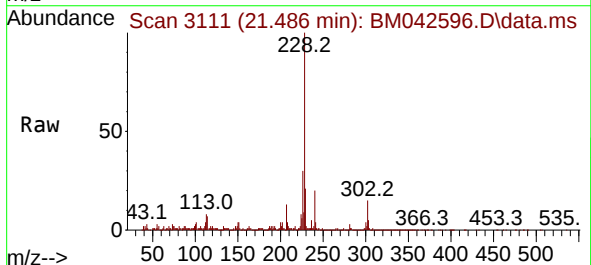
Tgt Ion:244 Resp: 27139
 Ion Ratio Lower Upper
 244 100
 212 7.7 5.4 8.2
 122 7.8 7.2 10.8

Manual Integrations
 APPROVED

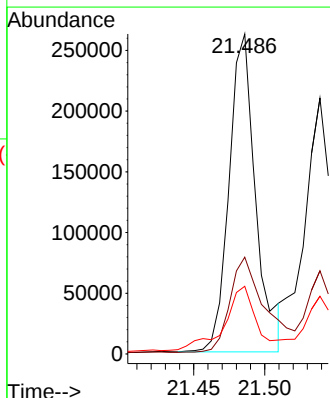
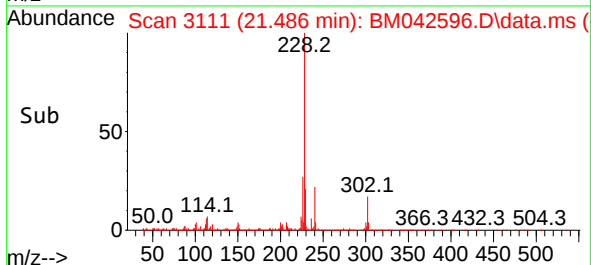
Reviewed By :Yogesh Patel 11/06/2023
 Supervised By :mohammad ahmed 11/07/2023

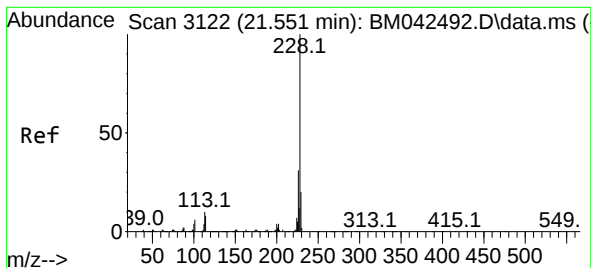


#81
 Benzo(a)anthracene
 Concen: 18.442 ng
 RT: 21.486 min Scan# 3111
 Delta R.T. -0.000 min
 Lab File: BM042596.D
 Acq: 04 Nov 2023 17:53



Tgt Ion:228 Resp: 341885
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.3 33.5
 229 21.2 15.8 23.8





#83

Chrysene

Concen: 14.902 ng

RT: 21.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

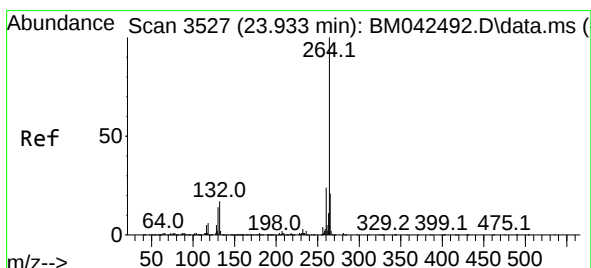
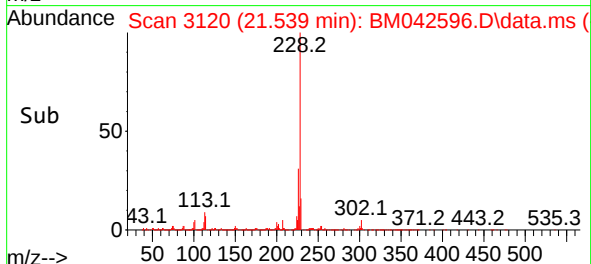
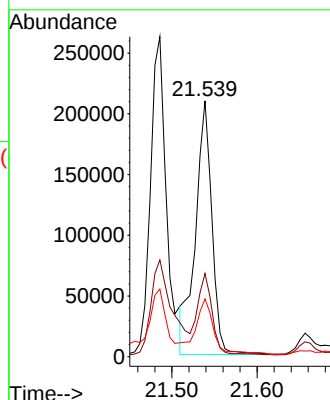
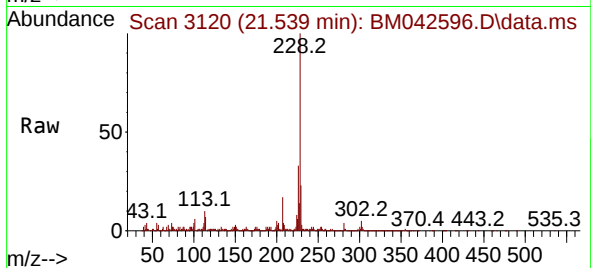
Tgt Ion:	228	Resp:	28061
Ion Ratio	Lower	Upper	
228	100		
226	32.5	24.4	36.6
229	22.6	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2023

Supervised By :mohammad ahmed 11/07/2023



#86

Perylene-d12

Concen: 20.000 ng

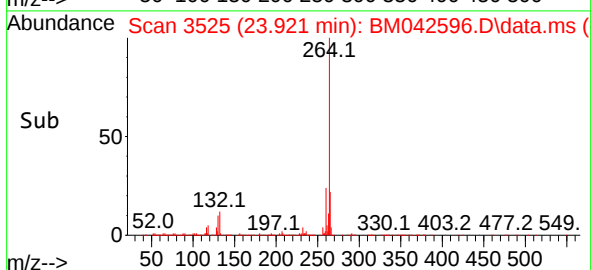
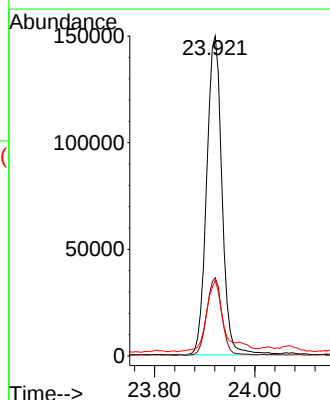
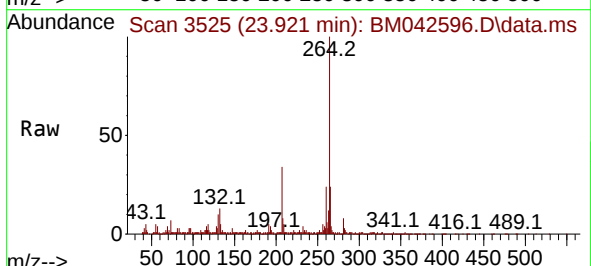
RT: 23.921 min Scan# 3525

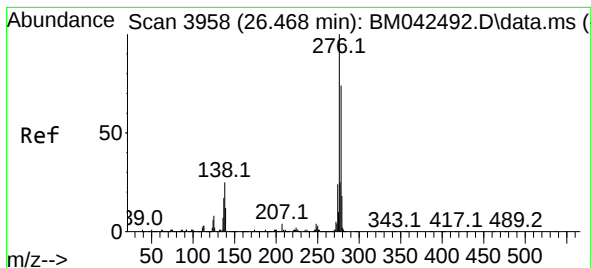
Delta R.T. 0.006 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Tgt Ion:	264	Resp:	317393
Ion Ratio	Lower	Upper	
264	100		
260	24.4	19.0	28.4
265	23.6	18.7	28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.607 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.006 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

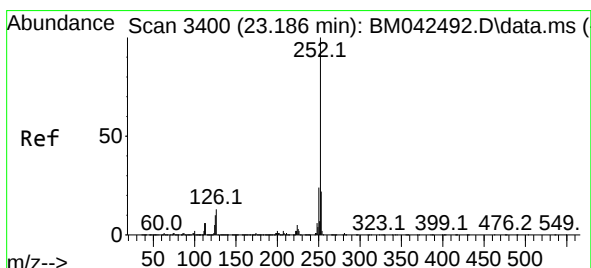
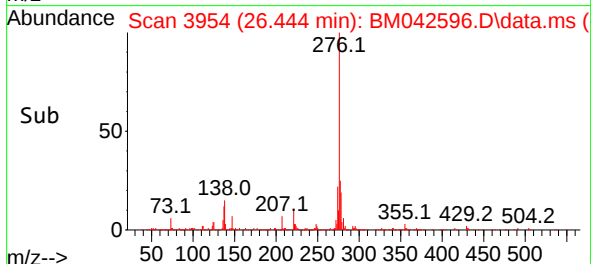
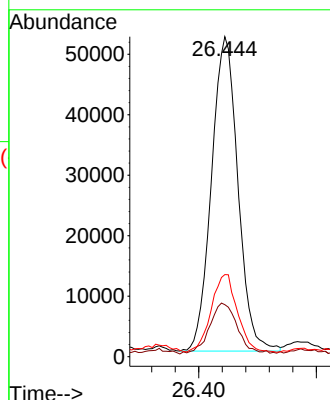
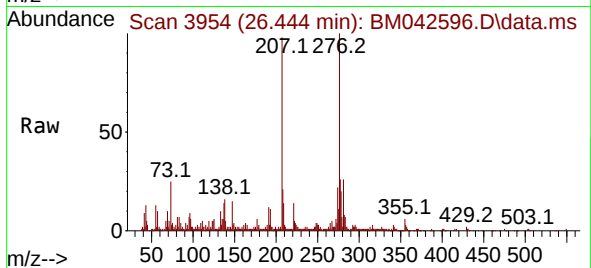
Tgt Ion:	276	Resp:	16258
Ion Ratio	Lower	Upper	
276	100		
138	17.1	20.6	31.0
277	24.4	19.5	29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2023

Supervised By :mohammad ahmed 11/07/2023



#88

Benzo(b)fluoranthene

Concen: 19.974 ng

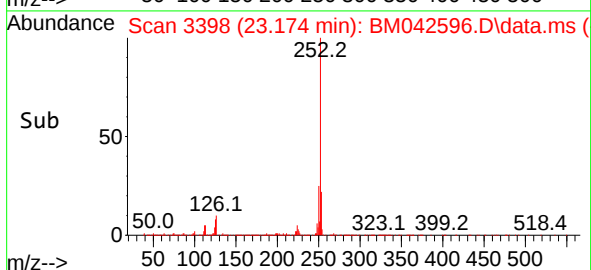
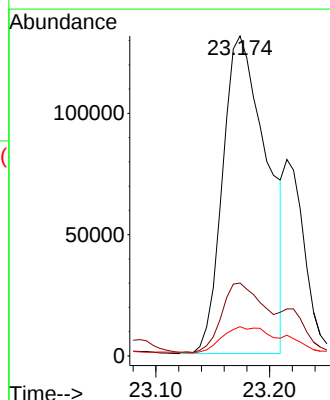
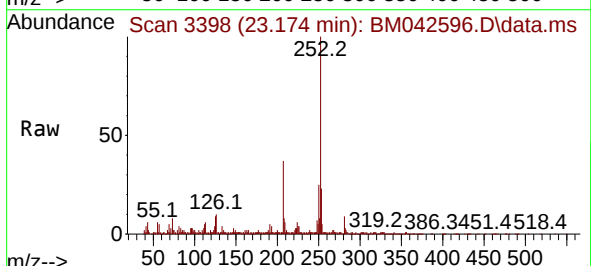
RT: 23.174 min Scan# 3398

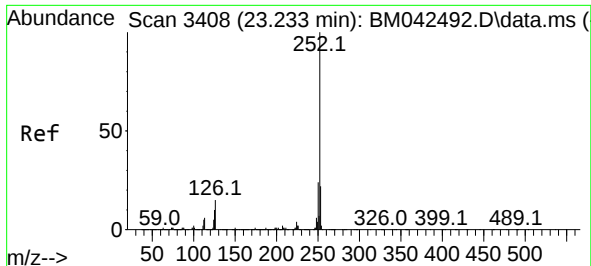
Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Tgt Ion:	252	Resp:	353201
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	9.1	7.8	11.6





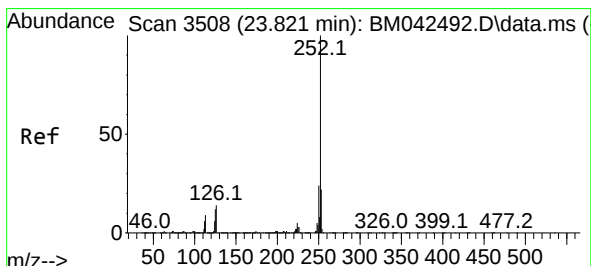
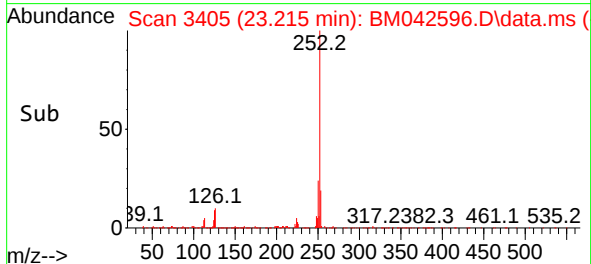
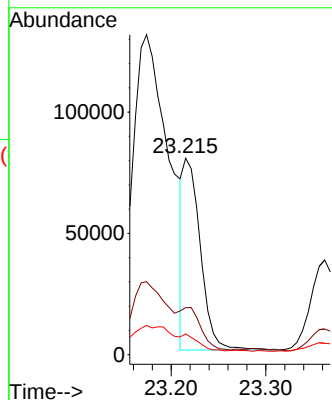
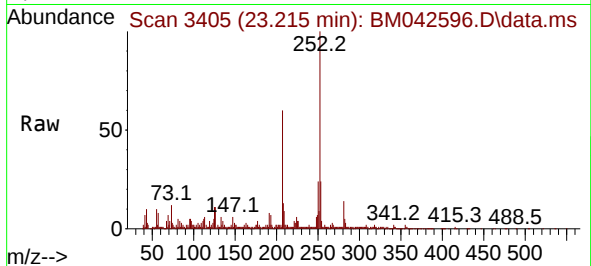
#89
Benzo(k)fluoranthene
Concen: 5.020 ng m
RT: 23.215 min Scan# 3408
Delta R.T. -0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

Tgt Ion:252 Resp: 9891
Ion Ratio Lower Upper
252 100
253 24.0 17.6 26.4
125 10.6 8.2 12.4

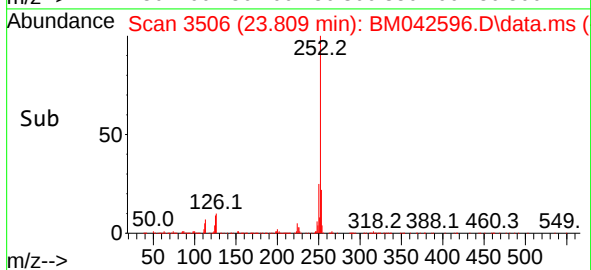
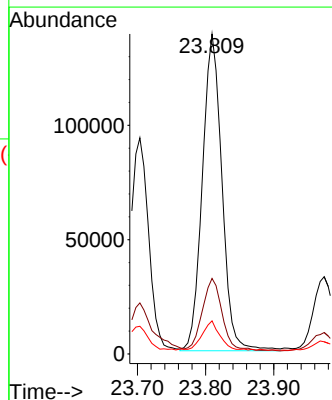
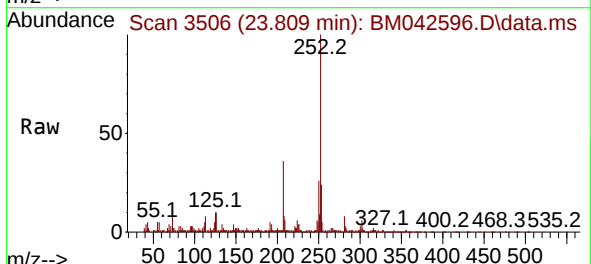
Manual Integrations
APPROVED

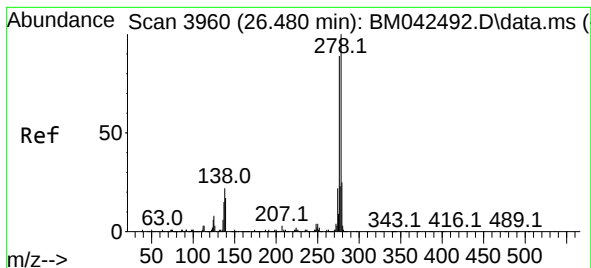
Reviewed By :Yogesh Patel 11/06/2023
Supervised By :mohammad ahmed 11/07/2023



#90
Benzo(a)pyrene
Concen: 15.922 ng
RT: 23.809 min Scan# 3506
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:252 Resp: 277178
Ion Ratio Lower Upper
252 100
253 23.6 17.5 26.3
125 10.3 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 6.375 ng

RT: 26.456 min Scan# 3956

Delta R.T. -0.012 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

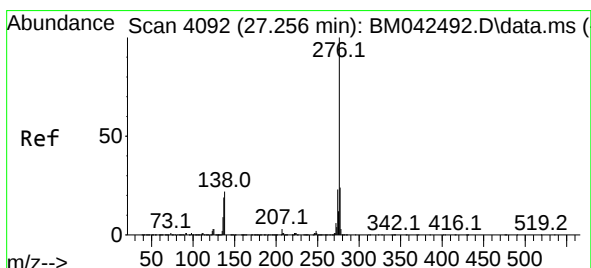
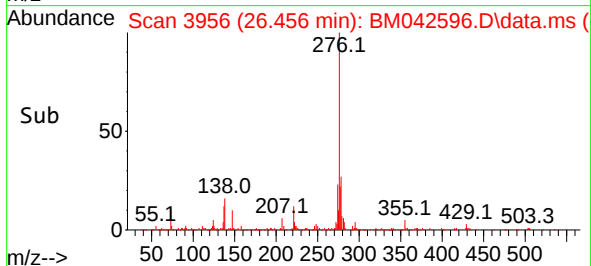
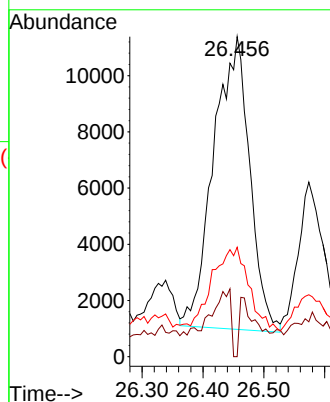
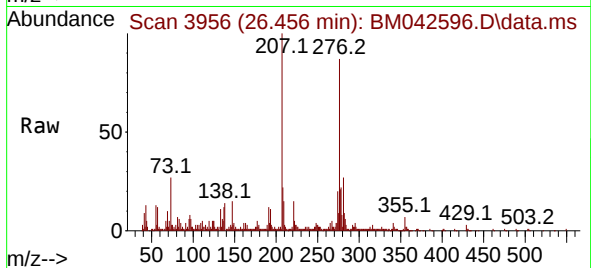
Tgt Ion:	278	Resp:	4269
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.4	20.2
279	34.2	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2023

Supervised By :mohammad ahmed 11/07/2023



#92

Benzo(g,h,i)perylene

Concen: 9.572 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Tgt Ion:	276	Resp:	159366
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.2	28.8
138	17.5	17.3	25.9

