

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112525\
 Data File : BF144356.D
 Acq On : 25 Nov 2025 18:14
 Operator : RC/JU
 Sample : Q3710-05DL 4X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATIONDL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
 Supervised By :mohammad ahmed 11/27/2025

Quant Time: Nov 26 00:34:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	60512	20.000	ng	-0.01
21) Naphthalene-d8	8.140	136	219095	20.000	ng	-0.02
39) Acenaphthene-d10	9.898	164	106803	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	178806	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	170203	20.000	ng	0.00
86) Perylene-d12	15.521	264	181252	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	78505	20.302	ng	-0.01
7) Phenol-d6	6.493	99	86569	19.758	ng	0.00
23) Nitrobenzene-d5	7.422	82	48026	12.660	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	21148	15.779	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	108860	15.054	ng	-0.01
79) Terphenyl-d14	12.975	244	112768	10.524	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.163	128	55101	5.287	ng	99
37) 2-Methylnaphthalene	8.857	142	31650	4.542	ng	99
38) 1-Methylnaphthalene	8.957	142	29855	4.440	ng	95
49) Acenaphthylene	9.763	152	40055	4.622	ng	98
52) Acenaphthene	9.934	154	23070	3.981	ng	98
58) Fluorene	10.445	166	38353	6.215	ng	# 96
71) Phenanthrene	11.416	178	349388	39.246	ng	99
72) Anthracene	11.463	178	81267	8.977	ng	98
73) Carbazole	11.622	167	33523	4.355	ng	99
75) Fluoranthene	12.610	202	531157	57.758	ng	99
78) Pyrene	12.839	202	602770	43.923	ng	99
81) Benzo(a)anthracene	14.033	228	365292	30.967	ng	95
83) Chrysene	14.069	228	312992m	28.742	ng	
87) Indeno(1,2,3-cd)pyrene	17.015	276	111967	8.606	ng	97
88) Benzo(b)fluoranthene	15.092	252	336801m	32.685	ng	
89) Benzo(k)fluoranthene	15.104	252	140040m	14.519	ng	
90) Benzo(a)pyrene	15.463	252	247743	26.061	ng	96
91) Dibenzo(a,h)anthracene	17.021	278	30621	2.930	ng	# 78
92) Benzo(g,h,i)perylene	17.468	276	112503	10.903	ng	97

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

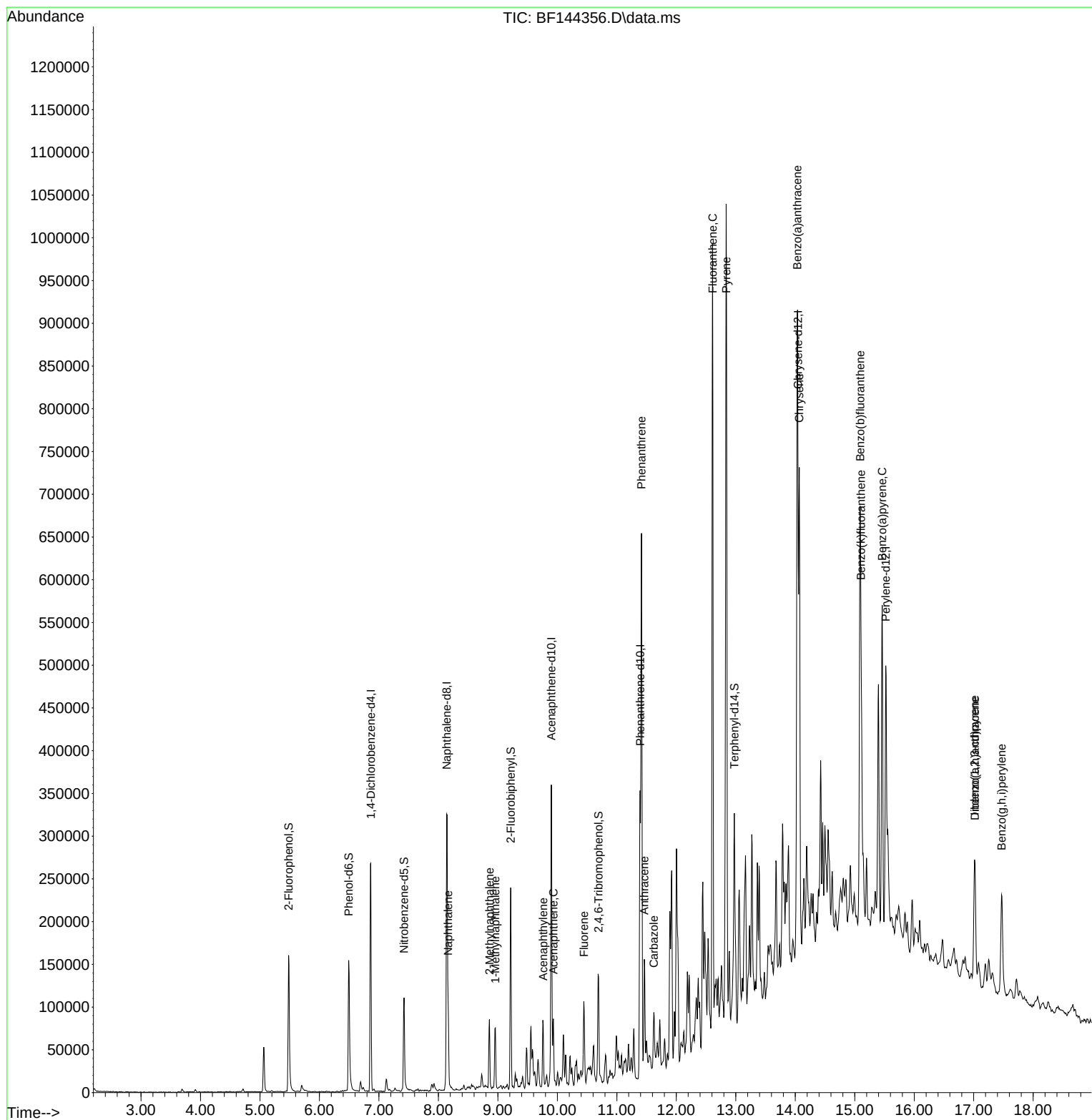
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112525\
Data File : BF144356.D
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Operator : RC/JU
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Misc :
ALS Vial : 10 Sample Multiplier: 1

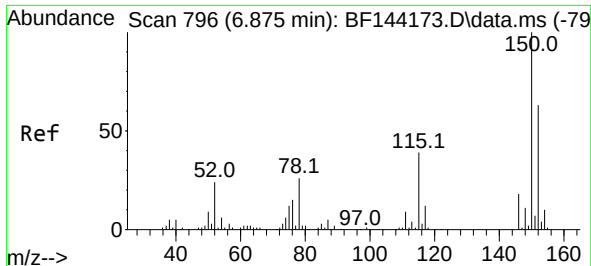
Instrument :
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Quant Time: Nov 26 00:34:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
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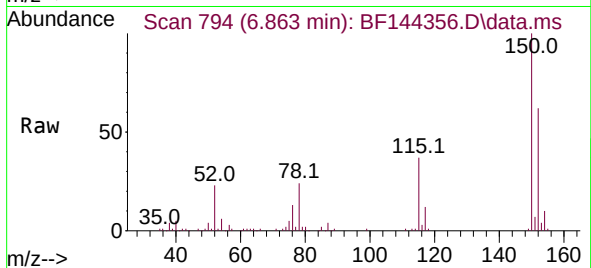
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

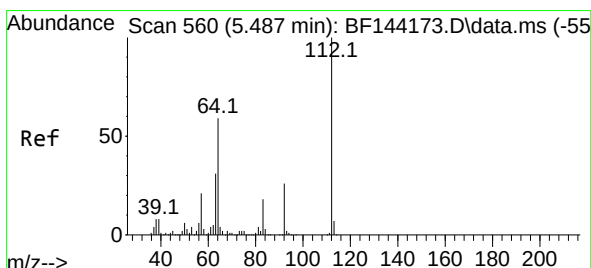
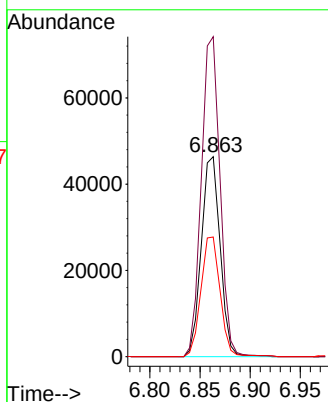
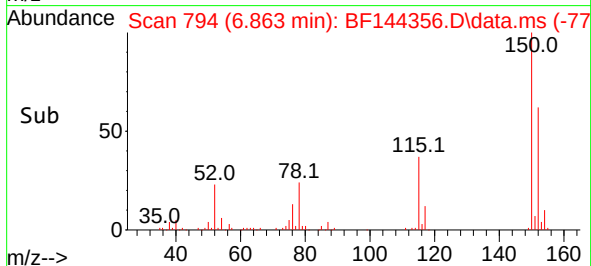
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:152 Resp: 60512
Ion Ratio Lower Upper
152 100
150 160.0 127.4 191.0
115 59.8 49.5 74.3

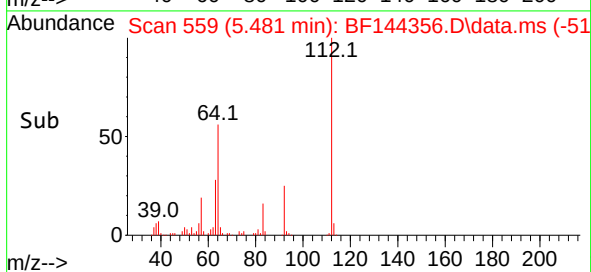
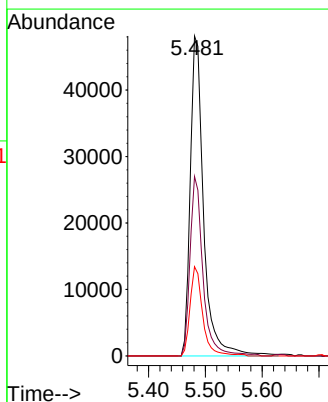
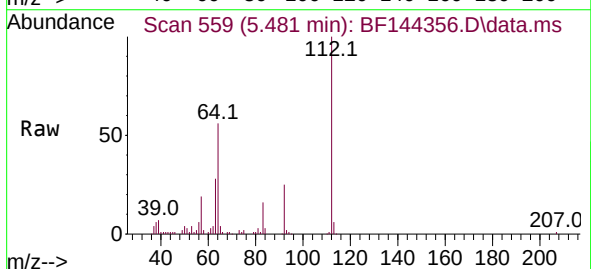
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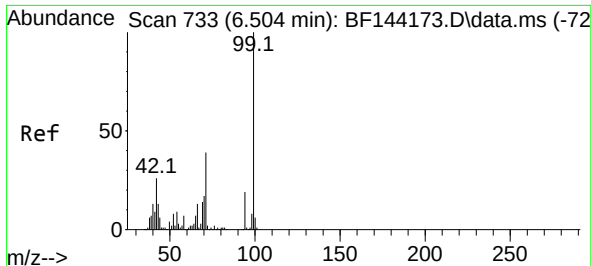
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#5
2-Fluorophenol
Concen: 20.302 ng
RT: 5.481 min Scan# 559
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

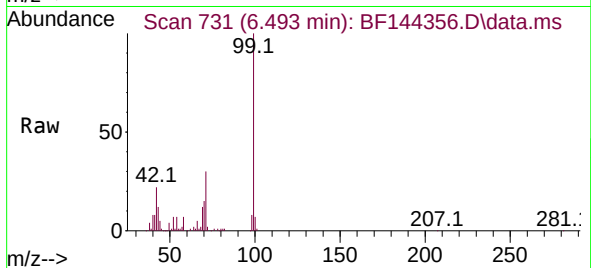
Tgt Ion:112 Resp: 78505
Ion Ratio Lower Upper
112 100
64 56.1 47.2 70.8
63 27.9 24.4 36.6





#7
Phenol-d6
Concen: 19.758 ng
RT: 6.493 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

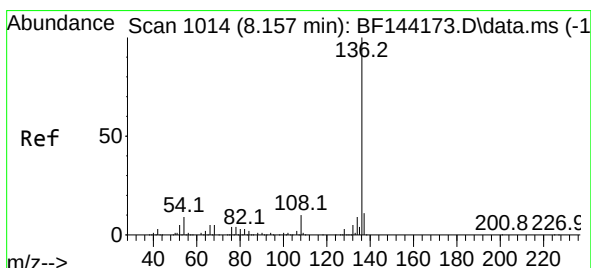
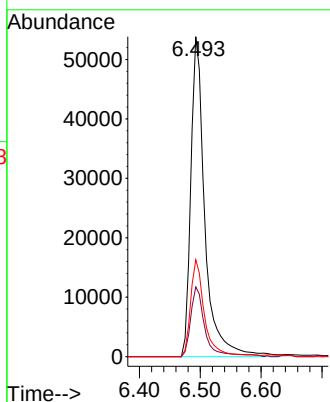
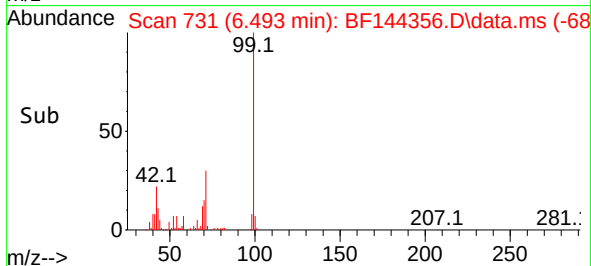
Instrument :
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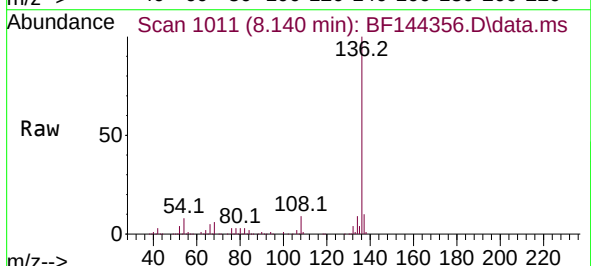
Tgt Ion: 99 Resp: 86569
Ion Ratio Lower Upper
99 100
42 21.8 20.9 31.3
71 30.3 31.4 47.2

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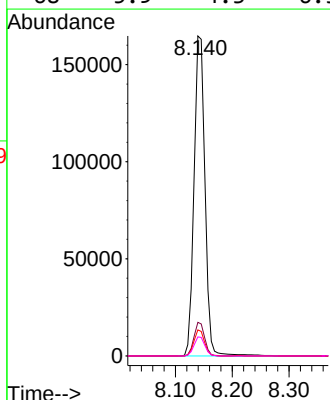
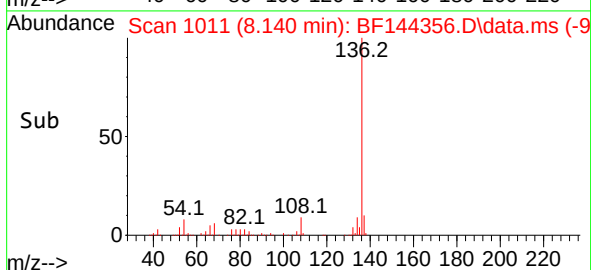
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

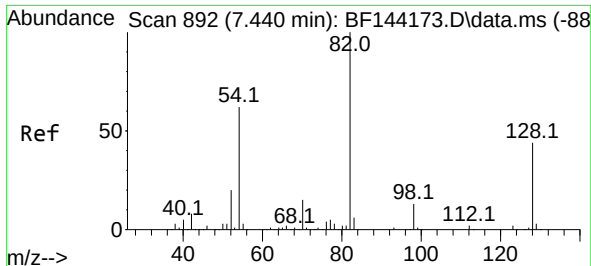


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.140 min Scan# 1011
Delta R.T. -0.018 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14



Tgt Ion:136 Resp: 219095
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 8.1 7.0 10.6
68 5.9 4.3 6.5





#23

Nitrobenzene-d5

Concen: 12.660 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144356.D

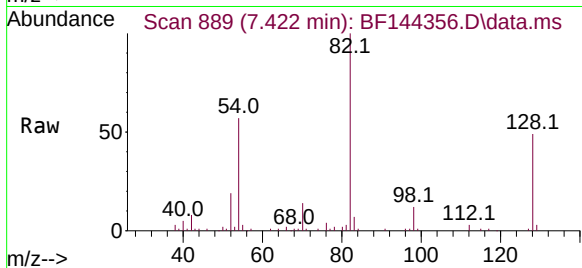
Acq: 25 Nov 2025 18:14

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATIONDL



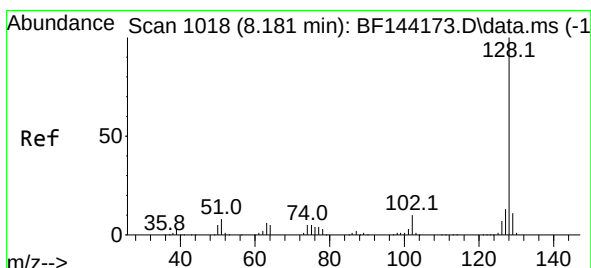
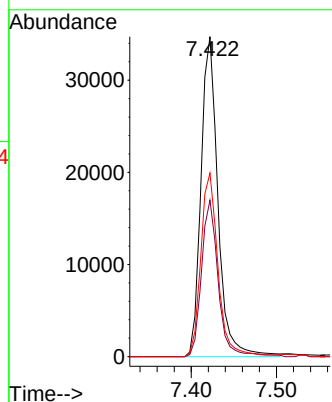
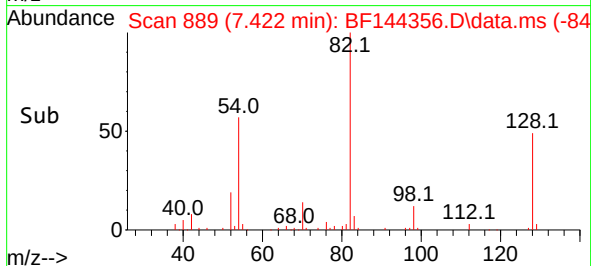
Tgt Ion: 82 Resp: 48026

Ion	Ratio	Lower	Upper
82	100		
128	48.9	34.7	52.1
54	57.4	49.5	74.3

Manual Integrations

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#31

Naphthalene

Concen: 5.287 ng

RT: 8.163 min Scan# 1015

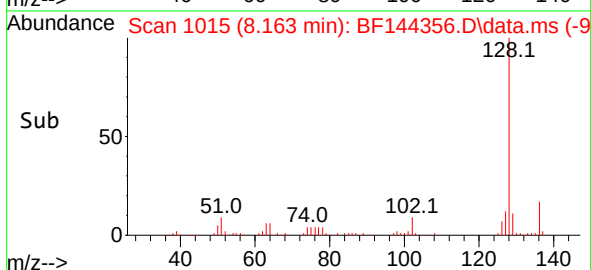
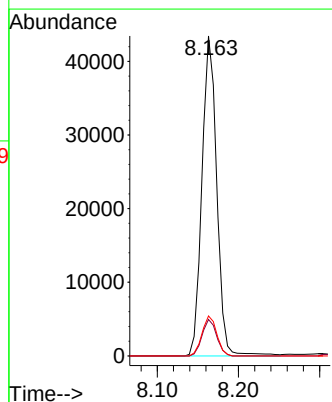
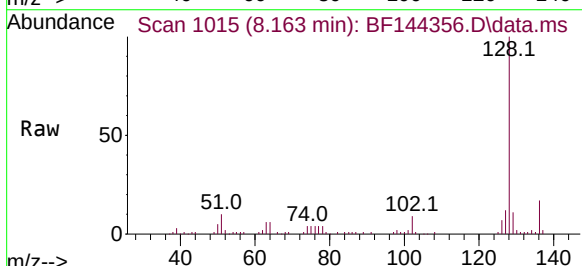
Delta R.T. -0.012 min

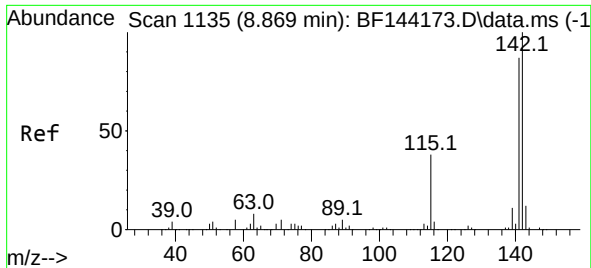
Lab File: BF144356.D

Acq: 25 Nov 2025 18:14

Tgt Ion:128 Resp: 55101

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.9	13.3
127	12.5	10.3	15.5





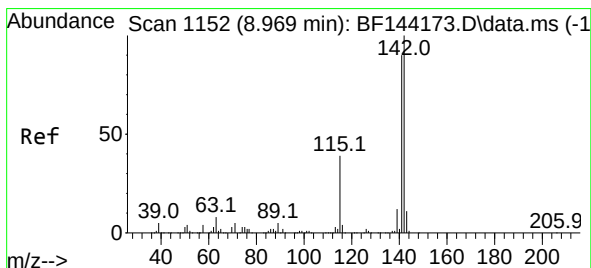
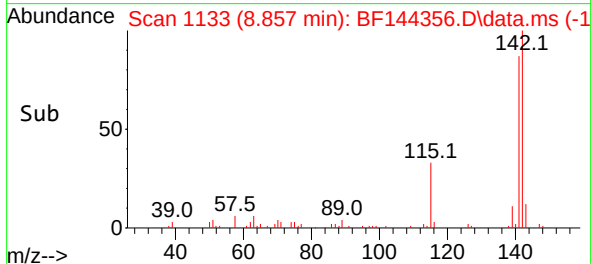
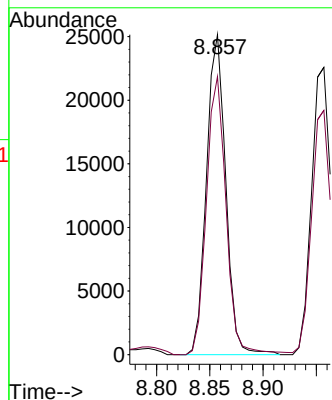
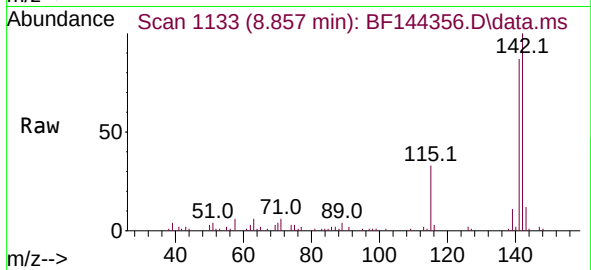
#37
2-Methylnaphthalene
Concen: 4.542 ng
RT: 8.857 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL

Tgt Ion:142 Resp: 31650
Ion Ratio Lower Upper
142 100
141 86.9 69.9 104.9

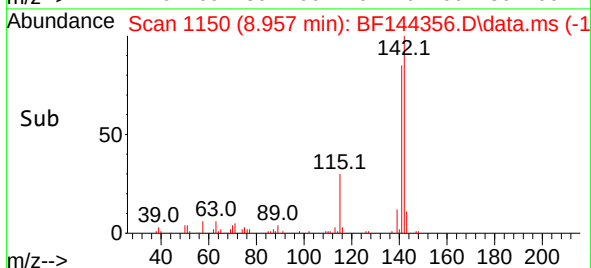
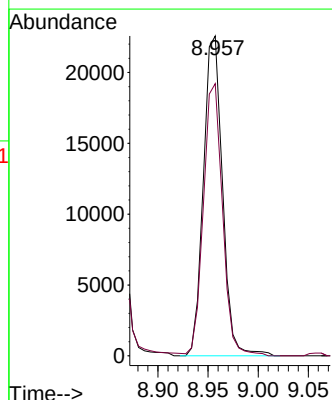
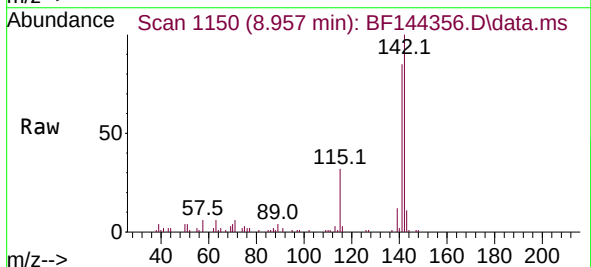
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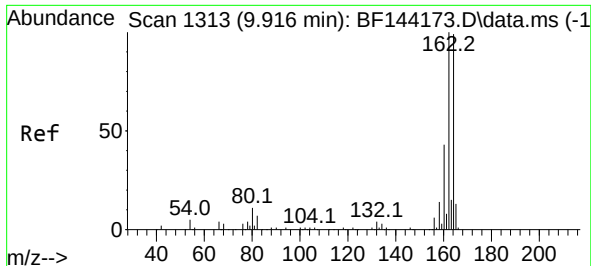
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#38
1-Methylnaphthalene
Concen: 4.440 ng
RT: 8.957 min Scan# 1150
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

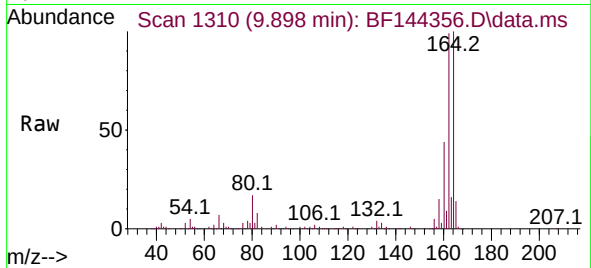
Tgt Ion:142 Resp: 29855
Ion Ratio Lower Upper
142 100
141 85.1 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

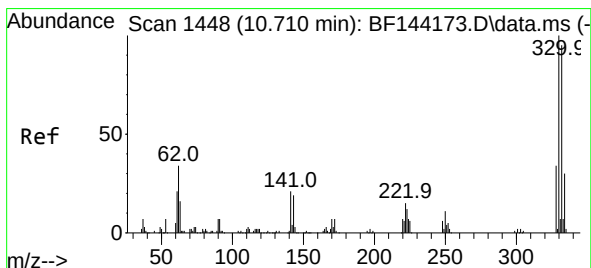
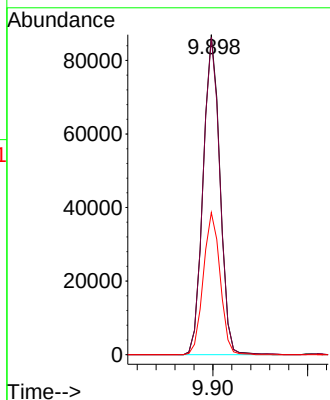
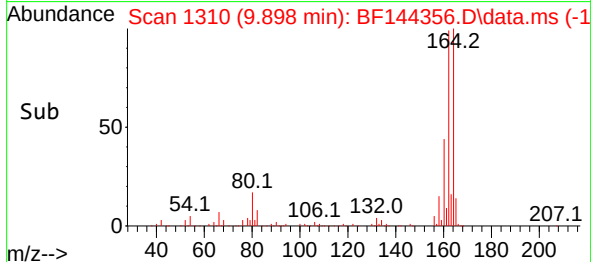
Instrument :
BNA_F
ClientSampleId :
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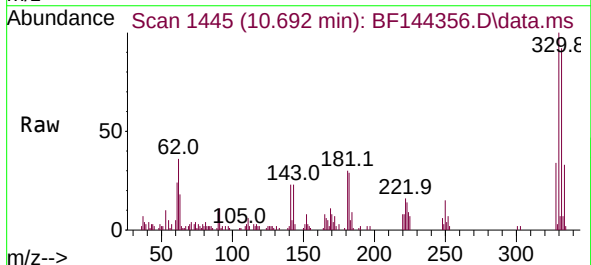
Tgt Ion:164 Resp: 106803
Ion Ratio Lower Upper
164 100
162 99.1 81.1 121.7
160 44.4 34.5 51.7

Manual Integrations
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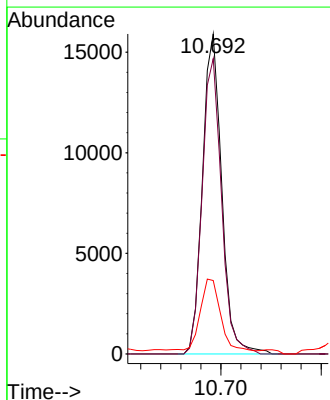
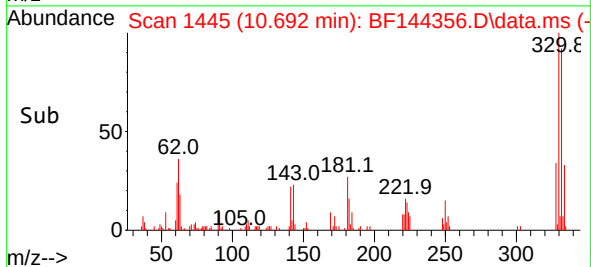
Reviewed By :Jagrut Upadhyay 11/26/2025
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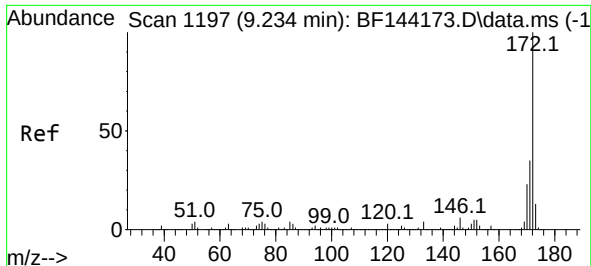


#42
2,4,6-Tribromophenol
Concen: 15.779 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14



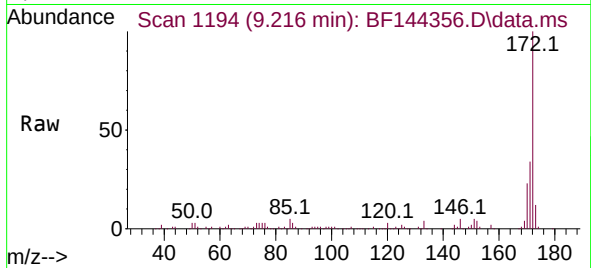
Tgt Ion:330 Resp: 21148
Ion Ratio Lower Upper
330 100
332 92.6 76.7 115.1
141 23.0 17.8 26.8





#45
2-Fluorobiphenyl
Concen: 15.054 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

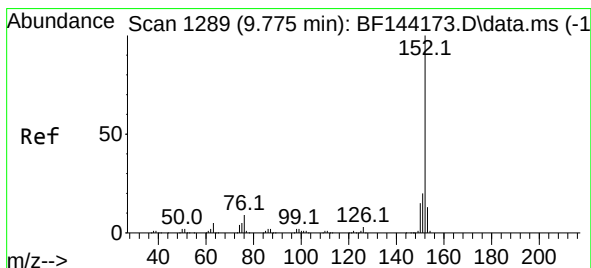
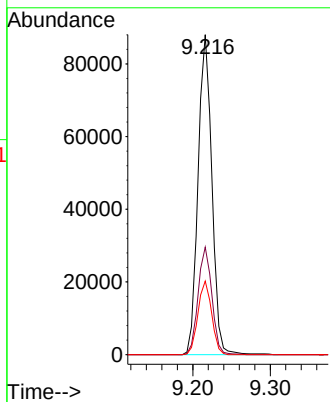
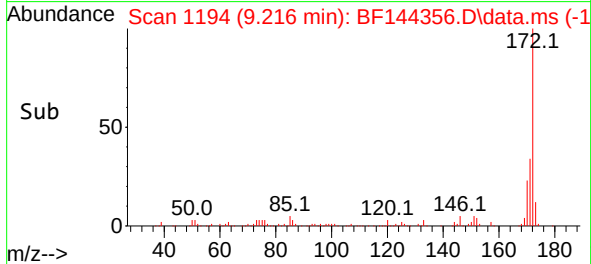
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:172 Resp: 108860
Ion Ratio Lower Upper
172 100
171 33.6 28.1 42.1
170 23.0 18.6 28.0

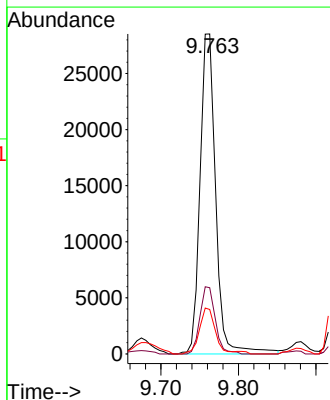
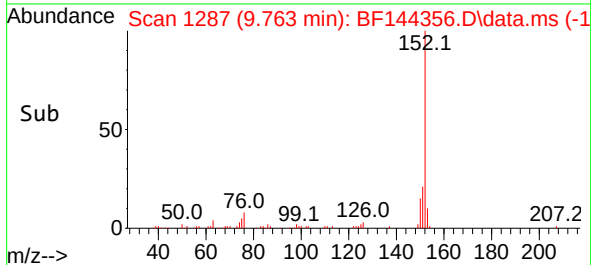
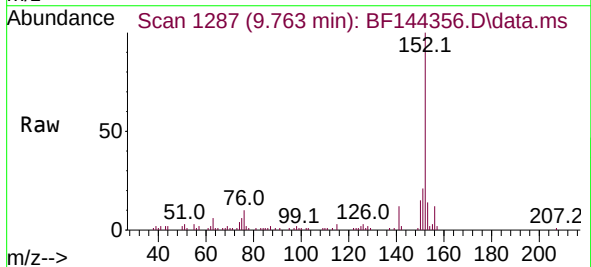
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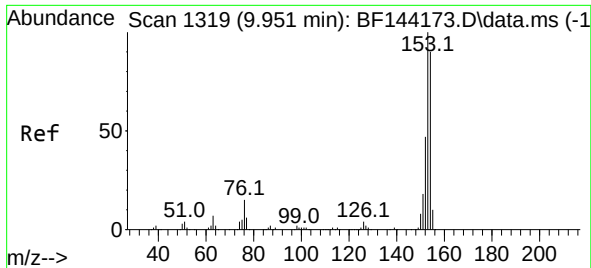
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#49
Acenaphthylene
Concen: 4.622 ng
RT: 9.763 min Scan# 1287
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

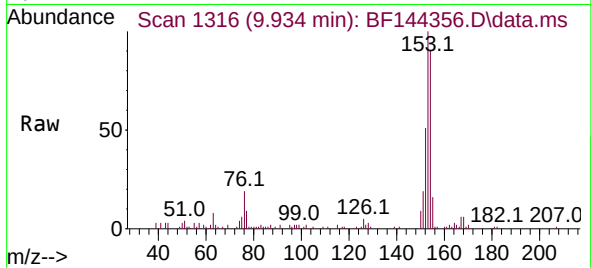
Tgt Ion:152 Resp: 40055
Ion Ratio Lower Upper
152 100
151 20.7 15.9 23.9
153 13.9 10.5 15.7





#52
Acenaphthene
Concen: 3.981 ng
RT: 9.934 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

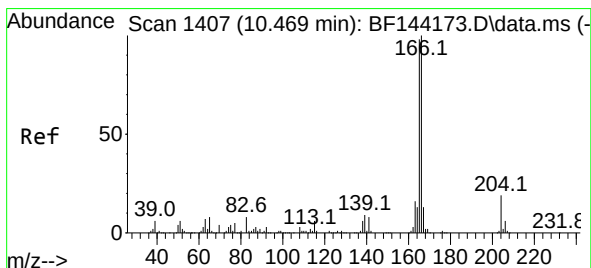
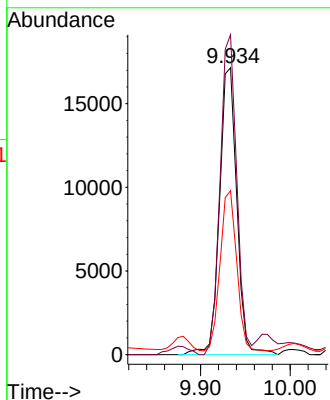
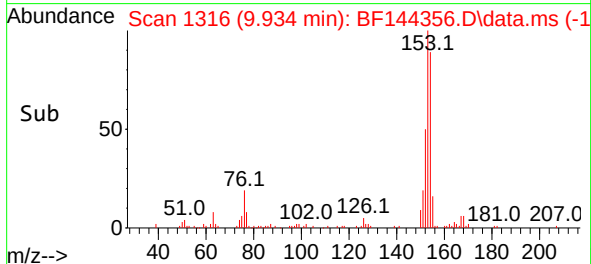
Instrument : BNA_F
ClientSampleId : WELD-SHOP-EXCAVATIONDL



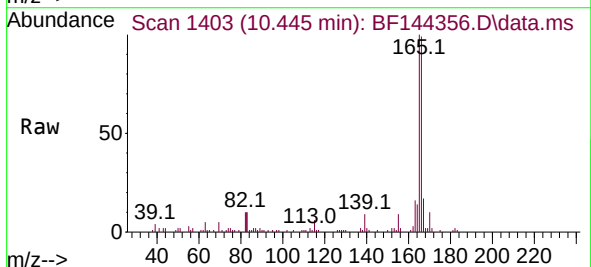
Tgt Ion:154 Resp: 23070
Ion Ratio Lower Upper
154 100
153 111.6 89.0 133.4
152 57.2 42.2 63.4

Manual Integrations
APPROVED

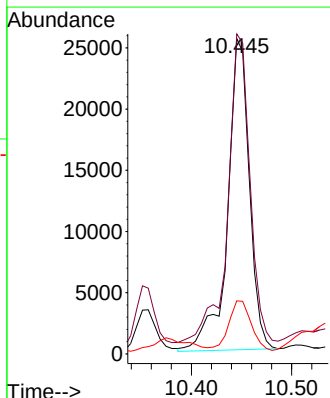
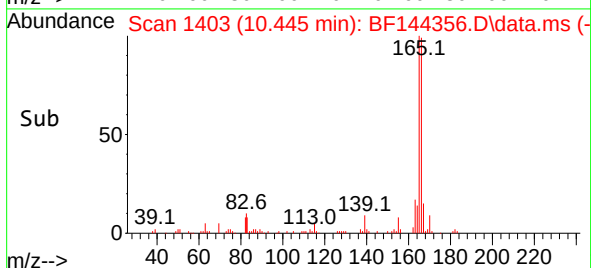
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

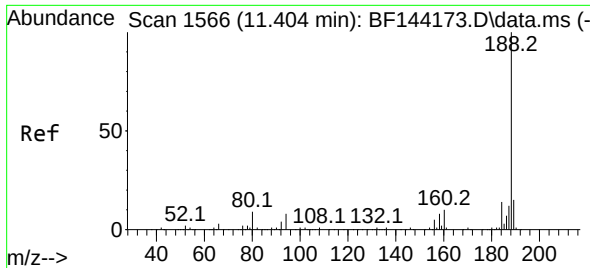


#58
Fluorene
Concen: 6.215 ng
RT: 10.445 min Scan# 1403
Delta R.T. -0.018 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14



Tgt Ion:166 Resp: 38353
Ion Ratio Lower Upper
166 100
165 101.5 78.6 118.0
167 16.8 10.4 15.6





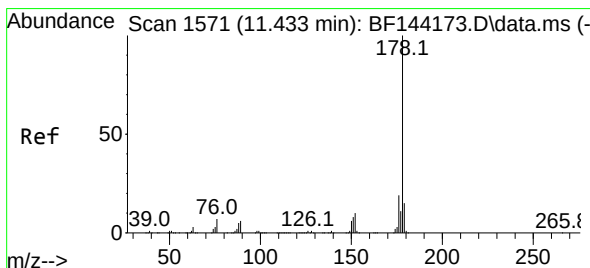
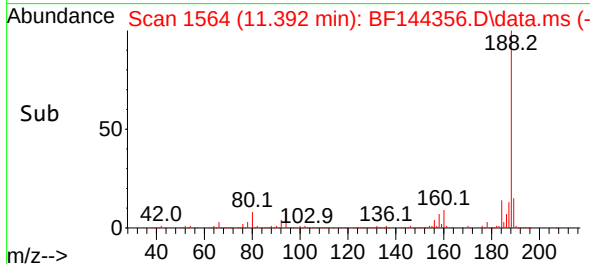
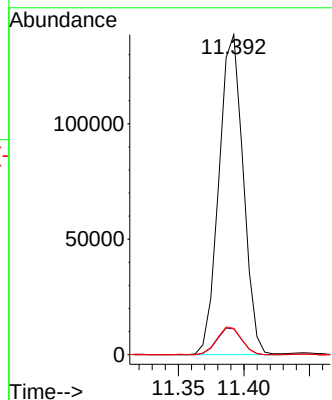
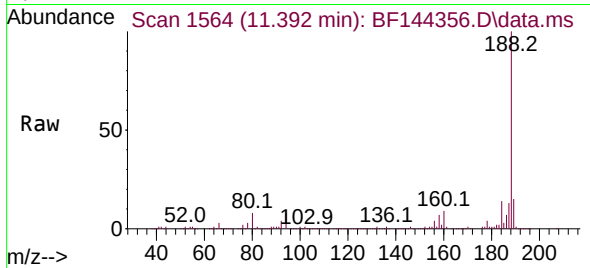
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL

Tgt Ion:188 Resp: 178806
Ion Ratio Lower Upper
188 100
94 8.0 6.2 9.2
80 8.2 6.9 10.3

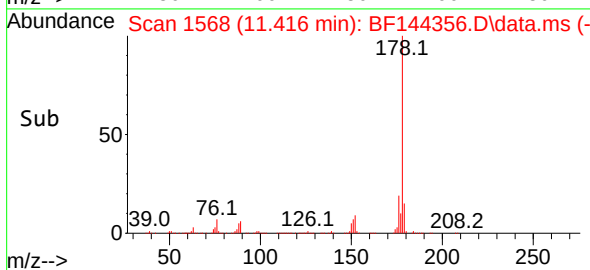
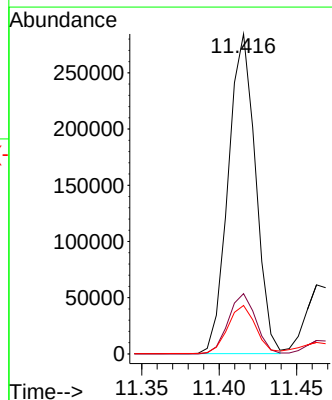
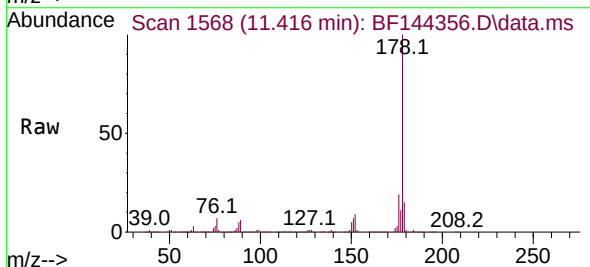
Manual Integrations
APPROVED

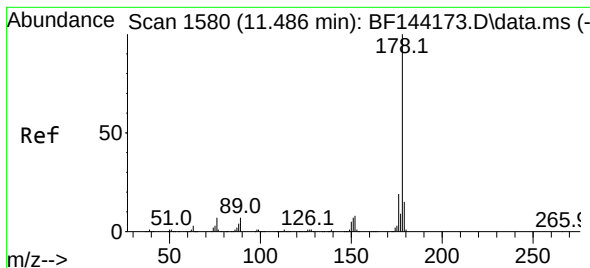
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#71
Phenanthrene
Concen: 39.246 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Tgt Ion:178 Resp: 349388
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 15.1 12.2 18.4





#72

Anthracene

Concen: 8.977 ng

RT: 11.463 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF144356.D

Acq: 25 Nov 2025 18:14

Instrument :

BNA_F

ClientSampleId :

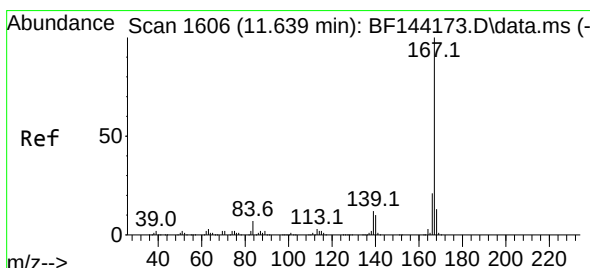
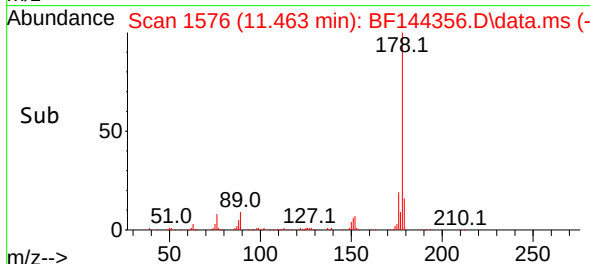
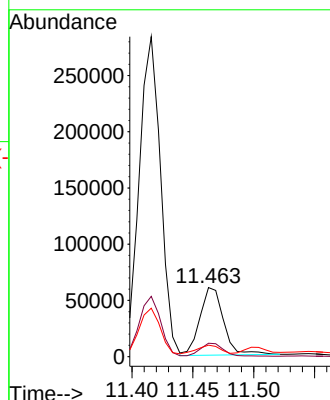
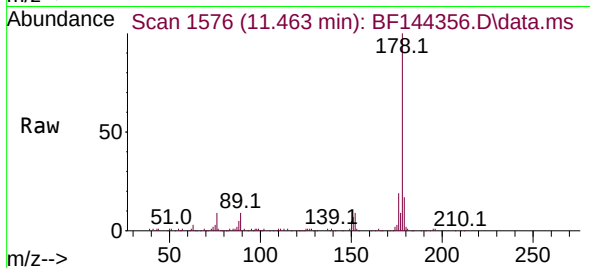
WELD-SHOP-EXCAVATIONDL

Tgt Ion:178	Resp:	8126	
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.3	22.9
179	16.6	12.0	18.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#73

Carbazole

Concen: 4.355 ng

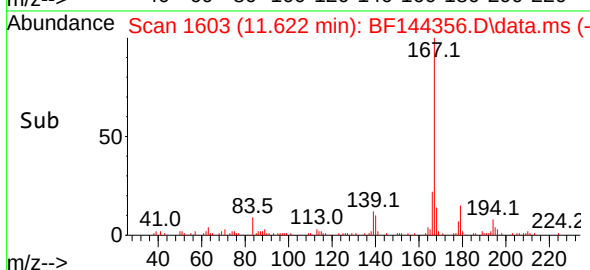
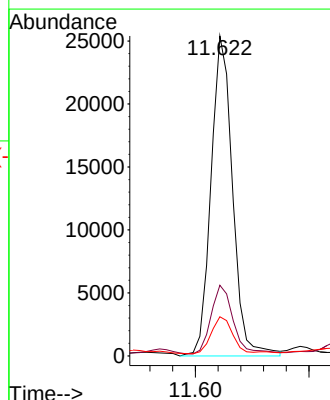
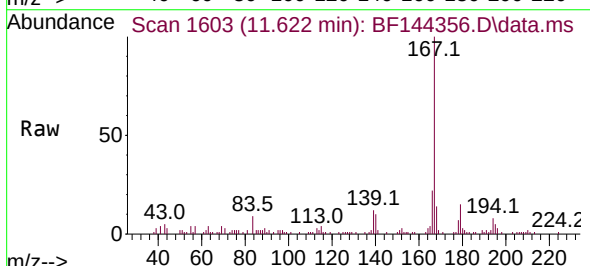
RT: 11.622 min Scan# 1603

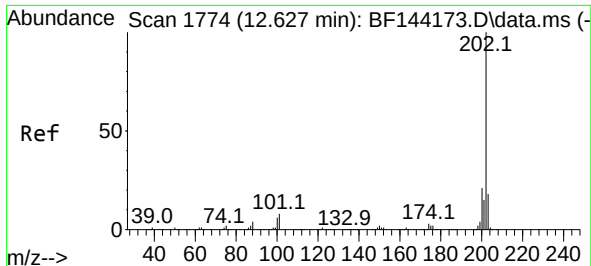
Delta R.T. -0.018 min

Lab File: BF144356.D

Acq: 25 Nov 2025 18:14

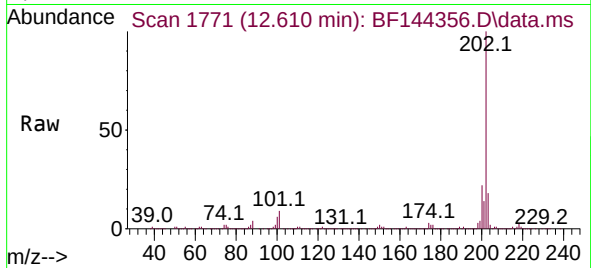
Tgt Ion:167	Resp:	33523	
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.2	25.8
139	12.2	9.9	14.9





#75
Fluoranthene
Concen: 57.758 ng
RT: 12.610 min Scan# 1771
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

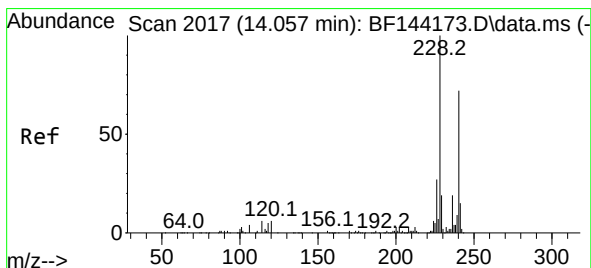
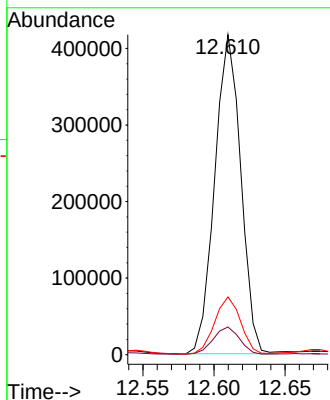
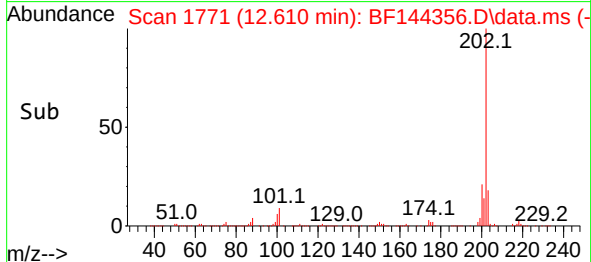
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:202 Resp: 53115
Ion Ratio Lower Upper
202 100
101 8.6 0.0 27.9
203 18.0 0.0 37.5

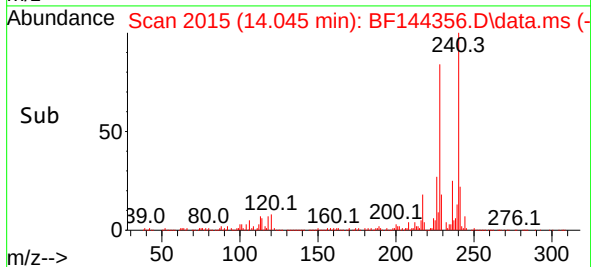
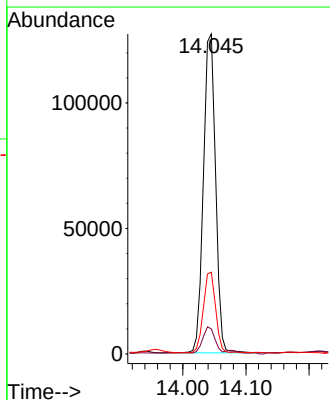
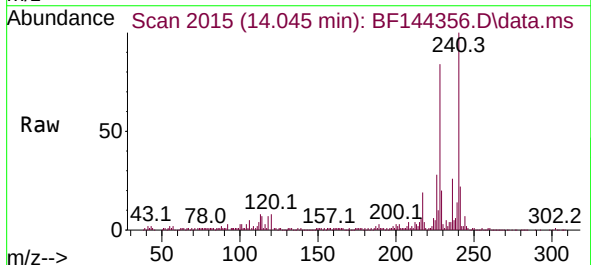
Manual Integrations
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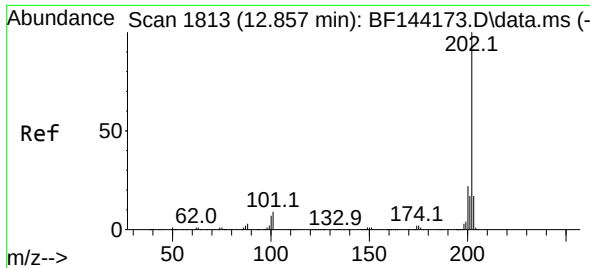
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Tgt Ion:240 Resp: 170203
Ion Ratio Lower Upper
240 100
120 7.8 6.6 10.0
236 25.5 21.4 32.2





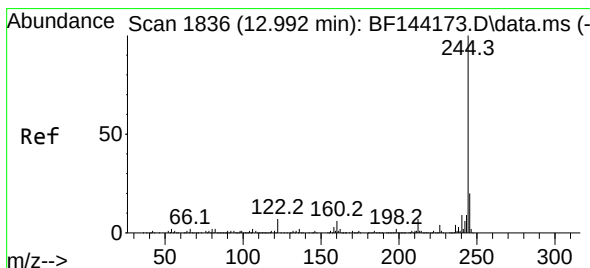
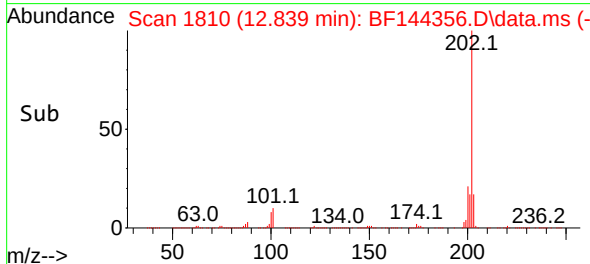
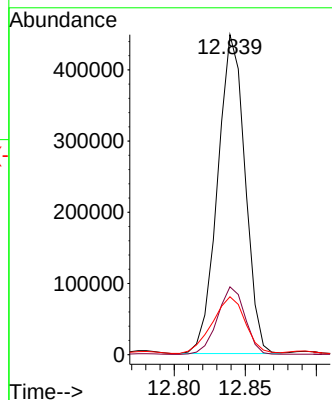
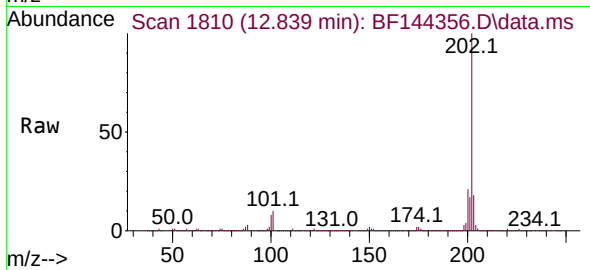
#78
Pyrene
Concen: 43.923 ng
RT: 12.839 min Scan# 1810
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL

Tgt Ion:202 Resp: 602776
Ion Ratio Lower Upper
202 100
200 21.2 17.2 25.8
203 18.1 13.7 20.5

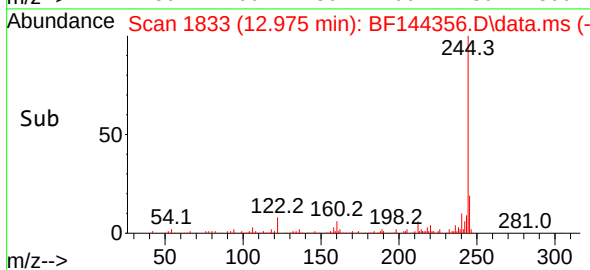
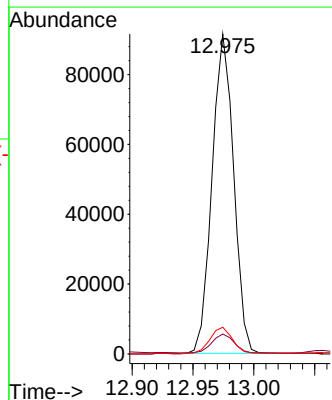
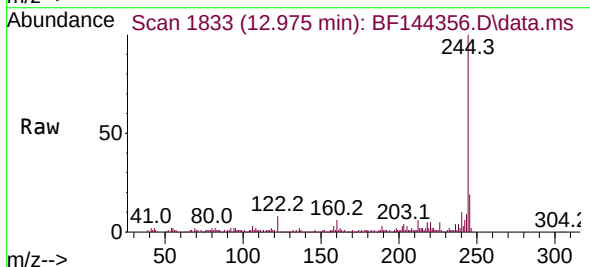
Manual Integrations
APPROVED

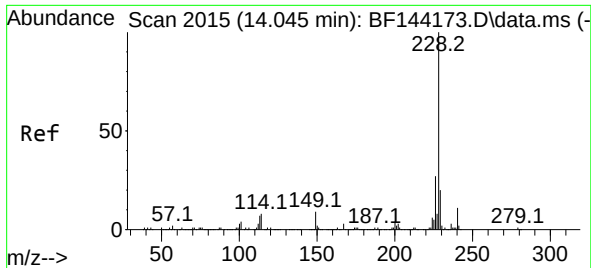
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#79
Terphenyl-d14
Concen: 10.524 ng
RT: 12.975 min Scan# 1833
Delta R.T. -0.018 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

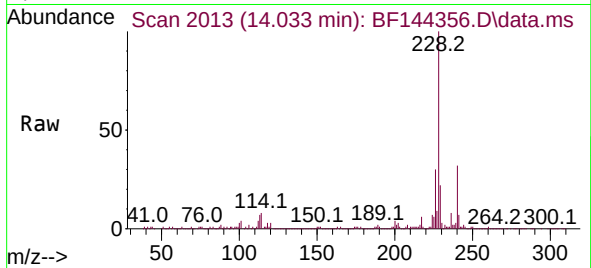
Tgt Ion:244 Resp: 112768
Ion Ratio Lower Upper
244 100
212 6.2 5.3 7.9
122 8.3 5.6 8.4





#81
Benzo(a)anthracene
Concen: 30.967 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

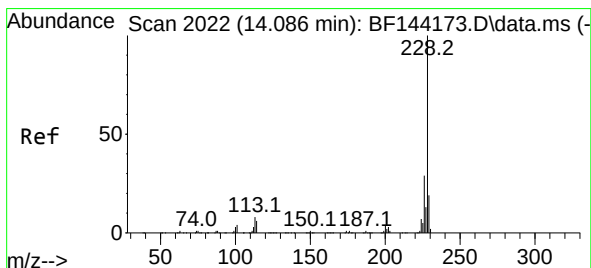
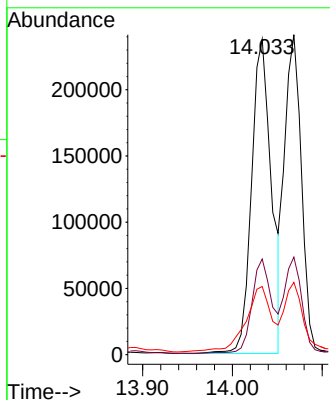
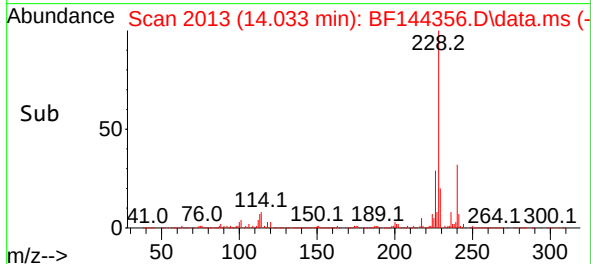
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:228 Resp: 365292
Ion Ratio Lower Upper
228 100
226 30.3 21.8 32.8
229 21.6 15.8 23.6

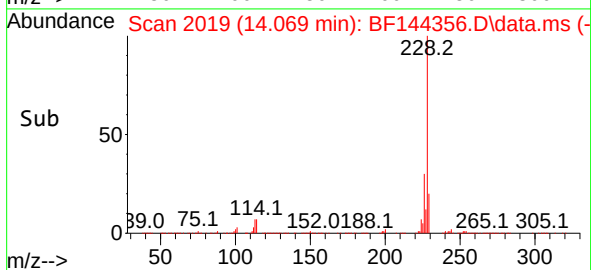
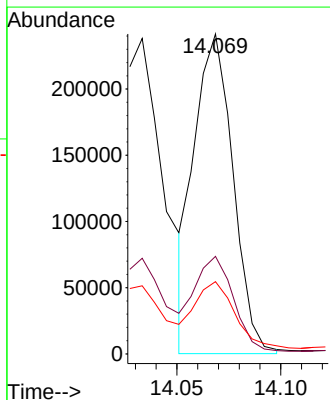
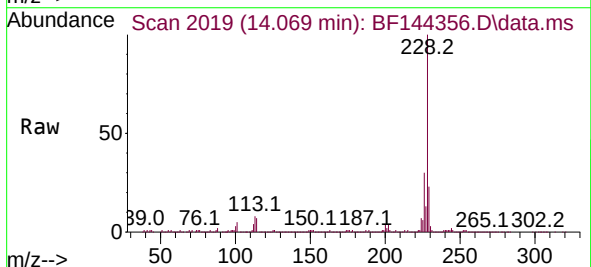
Manual Integrations
APPROVED

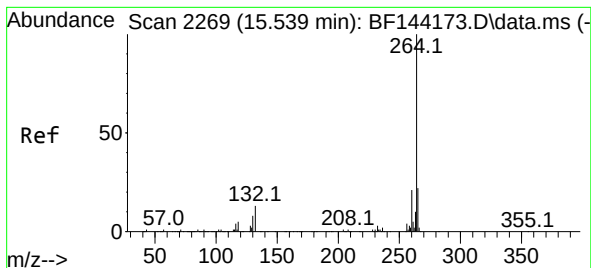
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#83
Chrysene
Concen: 28.742 ng m
RT: 14.069 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

Tgt Ion:228 Resp: 312992
Ion Ratio Lower Upper
228 100
226 30.5 22.9 34.3
229 22.6 15.0 22.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF144356.D

Acq: 25 Nov 2025 18:14

Instrument :

BNA_F

ClientSampleId :

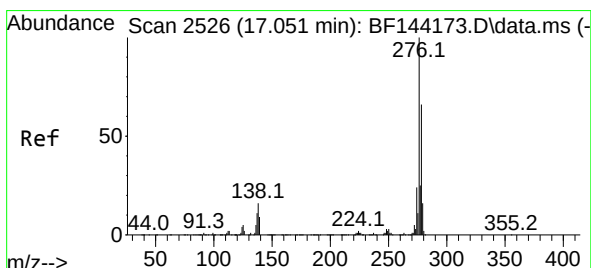
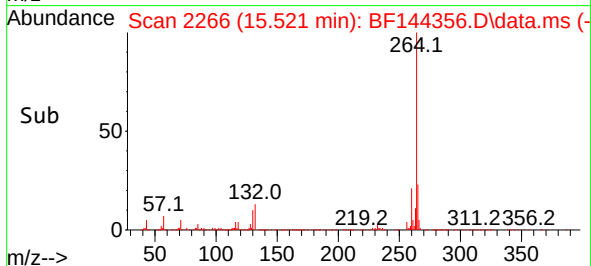
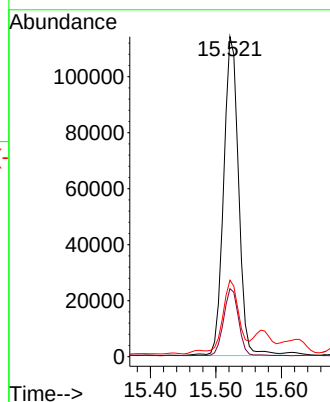
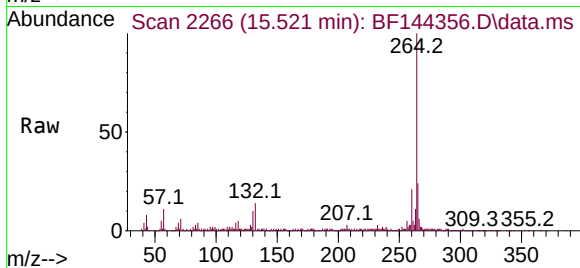
WELD-SHOP-EXCAVATIONDL

Tgt Ion:	264	Resp:	181252
Ion Ratio	Lower	Upper	
264	100		
260	21.2	17.1	25.7
265	23.9	17.4	26.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.606 ng

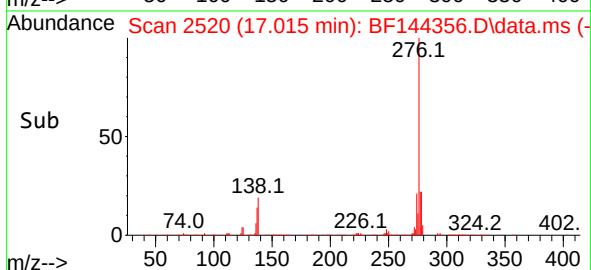
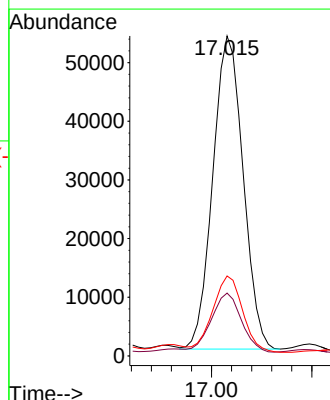
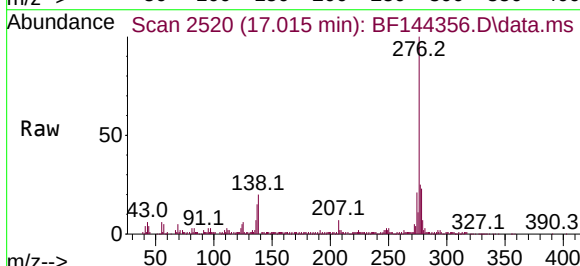
RT: 17.015 min Scan# 2520

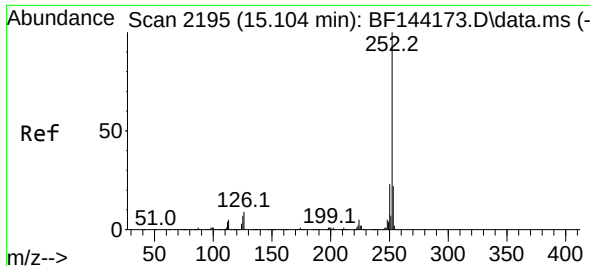
Delta R.T. -0.018 min

Lab File: BF144356.D

Acq: 25 Nov 2025 18:14

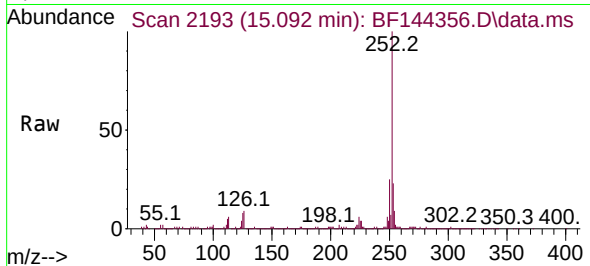
Tgt Ion:	276	Resp:	111967
Ion Ratio	Lower	Upper	
276	100		
138	19.7	13.9	20.9
277	24.4	19.8	29.6





#88
Benzo(b)fluoranthene
Concen: 32.685 ng m
RT: 15.092 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

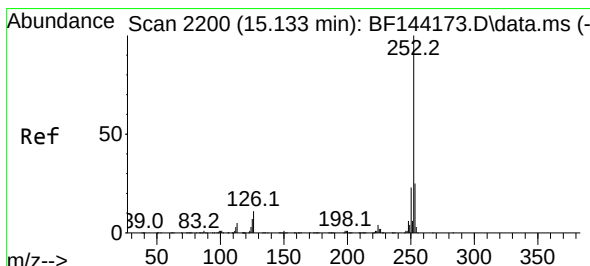
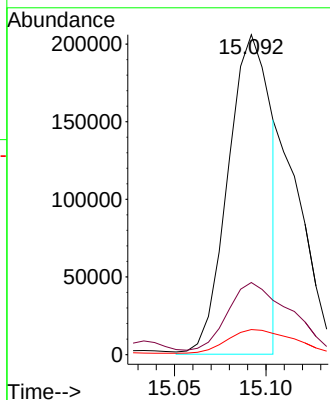
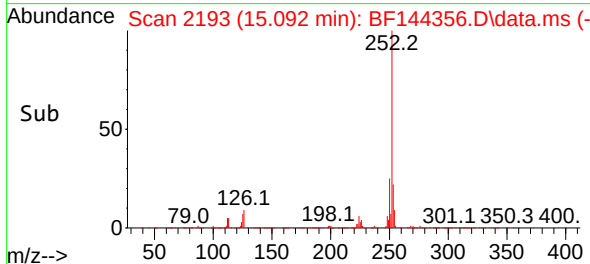
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:252 Resp: 33680
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.2
125 7.8 5.3 7.9

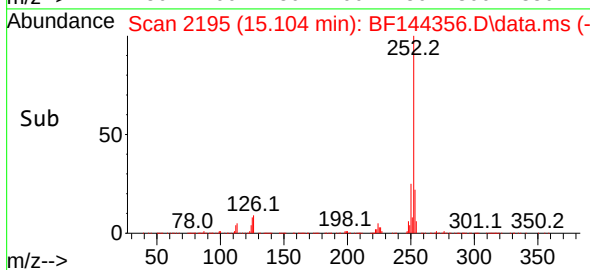
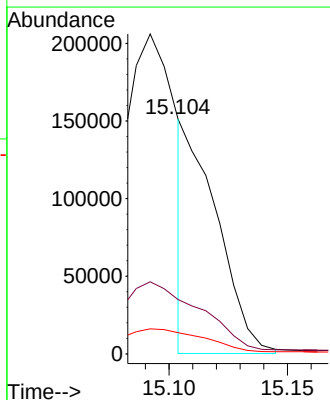
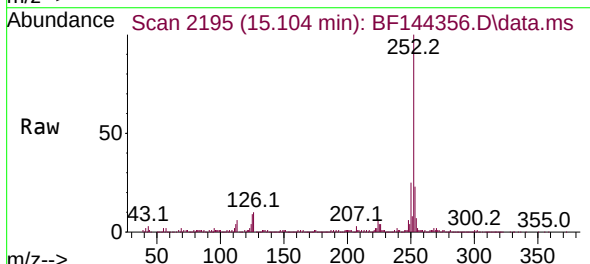
Manual Integrations
APPROVED

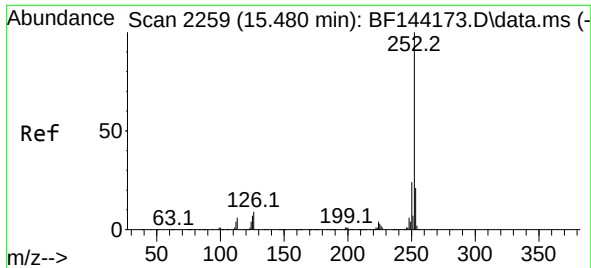
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#89
Benzo(k)fluoranthene
Concen: 14.519 ng m
RT: 15.104 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

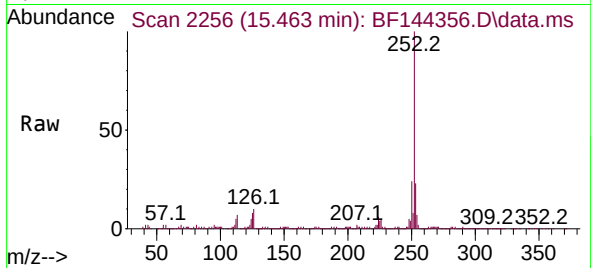
Tgt Ion:252 Resp: 140040
Ion Ratio Lower Upper
252 100
253 23.1 18.0 27.0
125 9.0 5.4 8.2#





#90
Benzo(a)pyrene
Concen: 26.061 ng
RT: 15.463 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

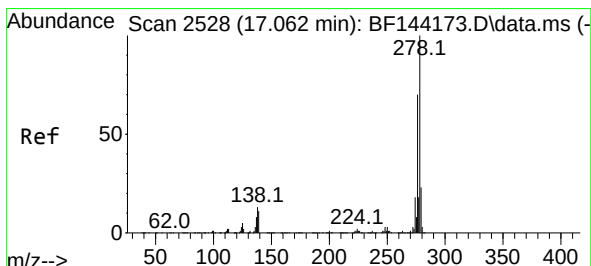
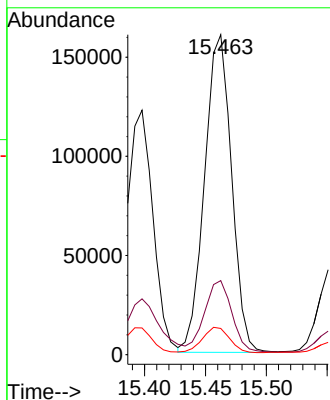
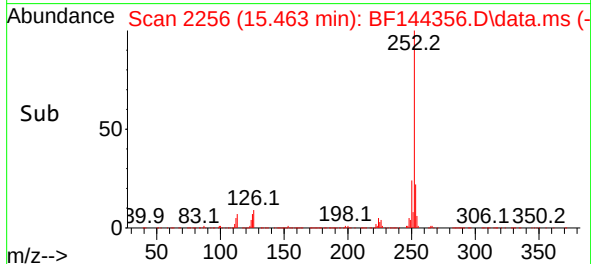
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATIONDL



Tgt Ion:252 Resp: 247743
Ion Ratio Lower Upper
252 100
253 23.2 16.7 25.1
125 8.2 5.7 8.5

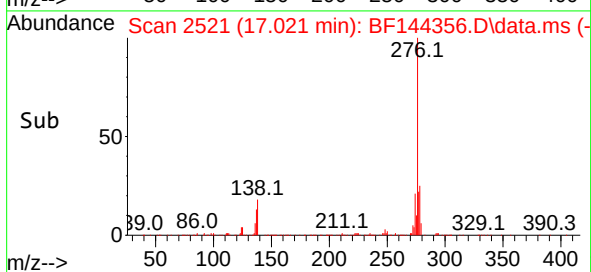
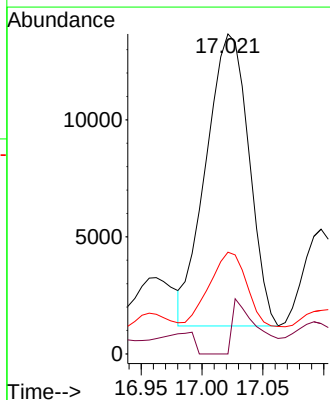
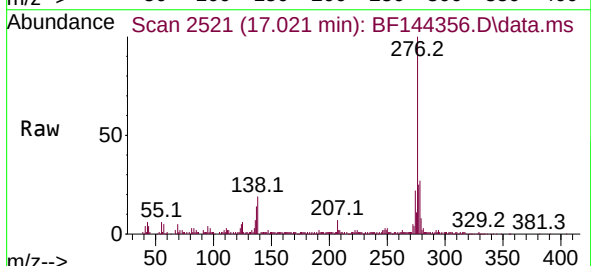
Manual Integrations
APPROVED

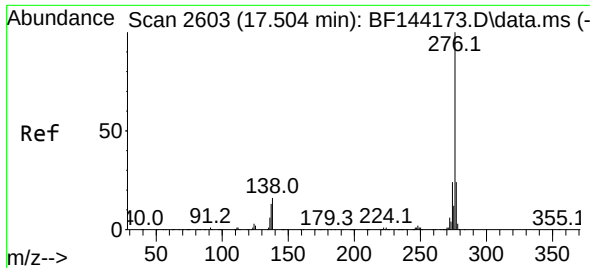
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#91
Dibenzo(a,h)anthracene
Concen: 2.930 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.029 min
Lab File: BF144356.D
Acq: 25 Nov 2025 18:14

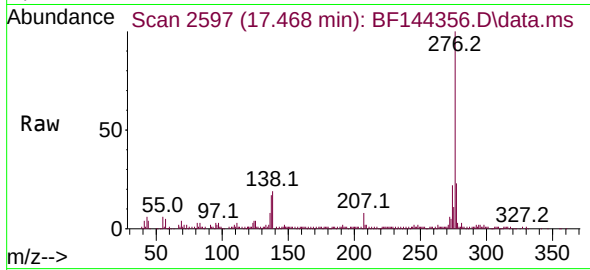
Tgt Ion:278 Resp: 30621
Ion Ratio Lower Upper
278 100
139 0.0 9.1 13.7#
279 31.8 18.2 27.4#





#92
 Benzo(g,h,i)perylene
 Concen: 10.903 ng
 RT: 17.468 min Scan# 2597
 Delta R.T. -0.024 min
 Lab File: BF144356.D
 Acq: 25 Nov 2025 18:14

Instrument : BNA_F
 ClientSampleId : WELD-SHOP-EXCAVATIONDL



Tgt Ion:	276	Resp:	112503
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.0	28.4
138	19.0	12.9	19.3

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
 Supervised By :mohammad ahmed 11/27/2025

