

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091125\
 Data File : VY023345.D
 Acq On : 11 Sep 2025 13:21
 Operator : SY/MD
 Sample : Q3077-03
 Misc : 3.25g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0139

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/12/2025
 Supervised By :Semsettin Yesilyurt 09/12/2025

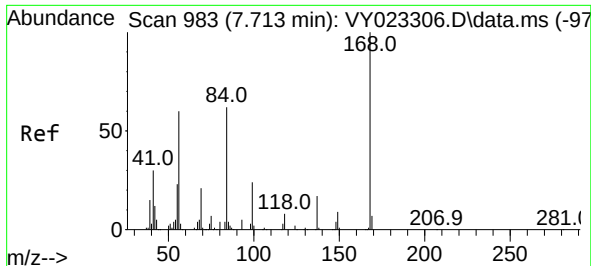
Quant Time: Sep 12 01:26:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090825S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 10 01:44:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	570155	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1066157	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	894408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	271657	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	290524	57.988	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.980%			
35) Dibromofluoromethane	7.634	113	338561	51.950	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.900%			
50) Toluene-d8	10.103	98	1228329	49.914	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.820%			
62) 4-Bromofluorobenzene	12.401	95	326677	42.183	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 84.360%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.854	59	23234	80.259	ug/l	99
16) Acetone	3.866	43	16927	14.833	ug/l	99
39) Methylcyclohexane	9.109	83	28899	2.434	ug/l	91
40) Benzene	8.079	78	70384	2.440	ug/l	96
52) Toluene	10.170	92	334805	18.286	ug/l	99
67) Ethyl Benzene	11.517	91	218818	6.836	ug/l	99
68) m/p-Xylenes	11.621	106	321856	25.110	ug/l	96
69) o-Xylene	11.950	106	250898	21.144	ug/l	98
70) Styrene	11.969	104	289264	14.709	ug/l	98
73) Isopropylbenzene	12.255	105	687341	37.562	ug/l	93
78) n-propylbenzene	12.590	91	2939167	136.278	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	3743637	251.541	ug/l	97
84) 1,2,4-Trimethylbenzene	13.041	105	11962472	812.489	ug/l	91
85) sec-Butylbenzene	13.176	105	220241m	11.230	ug/l	
86) p-Isopropyltoluene	13.291	119	106328m	6.418	ug/l	
89) n-Butylbenzene	13.615	91	84050m	5.721	ug/l	

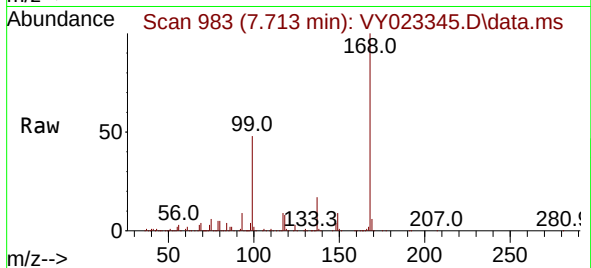
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

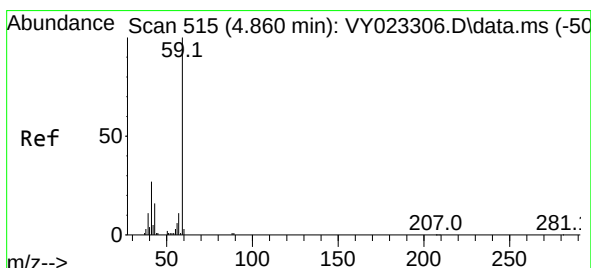
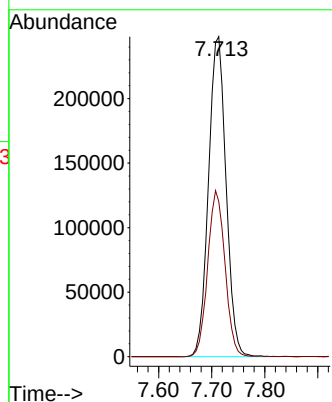
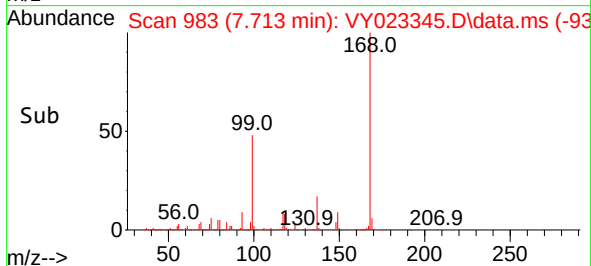
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion:168 Resp: 57015
Ion Ratio Lower Upper
168 100
99 48.5 42.8 64.2

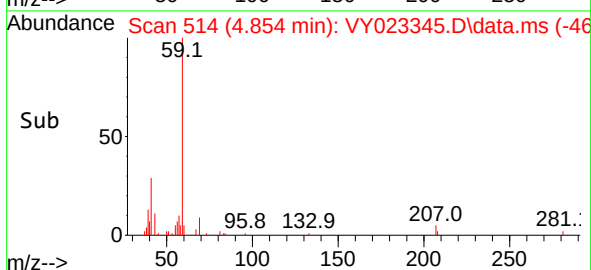
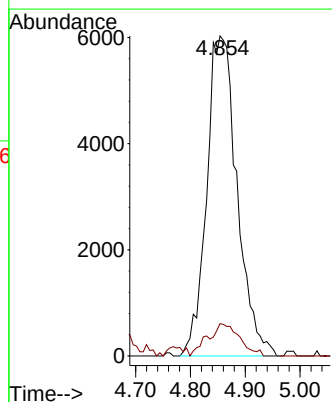
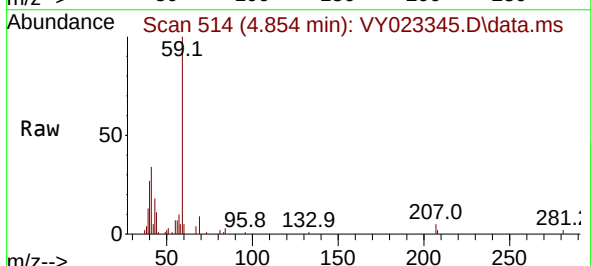
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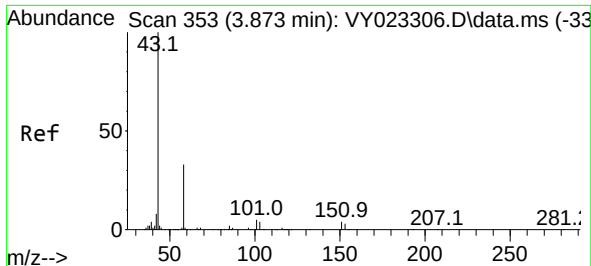
Reviewed By :Mahesh Dadoda 09/12/2025
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#11
Tert butyl alcohol
Concen: 80.259 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

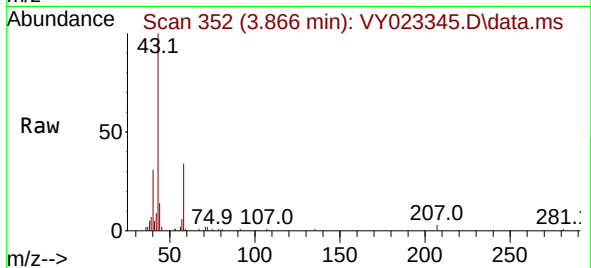
Tgt Ion: 59 Resp: 23234
Ion Ratio Lower Upper
59 100
57 10.5 8.6 13.0





#16
Acetone
Concen: 14.833 ug/l
RT: 3.866 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

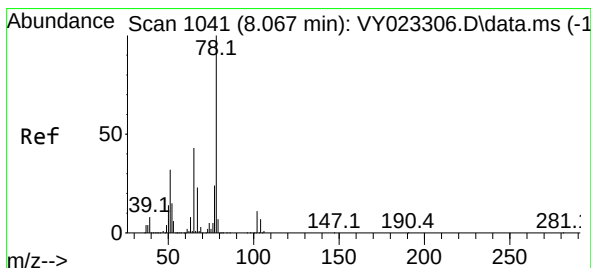
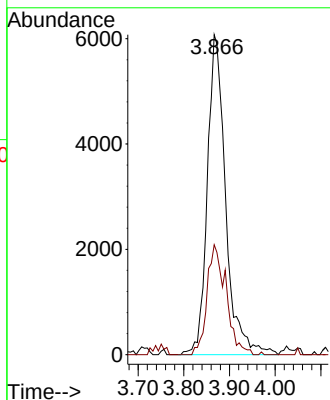
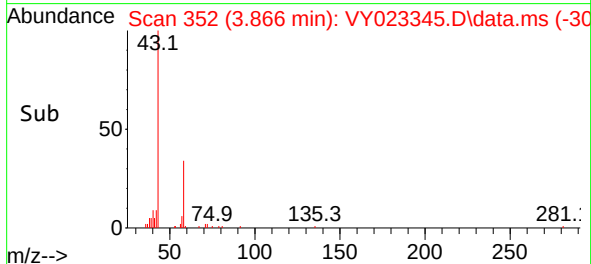
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion: 43 Resp: 1692
Ion Ratio Lower Upper
43 100
58 34.4 27.1 40.7

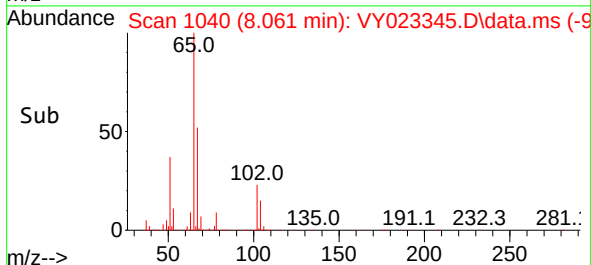
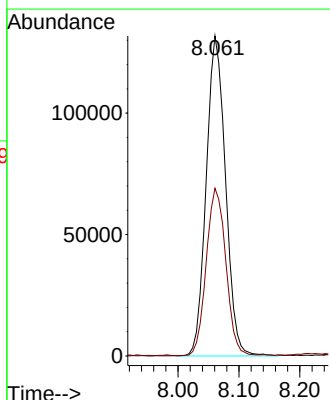
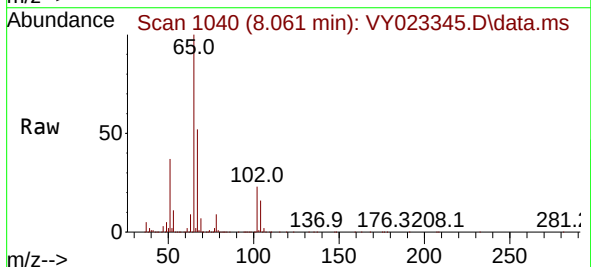
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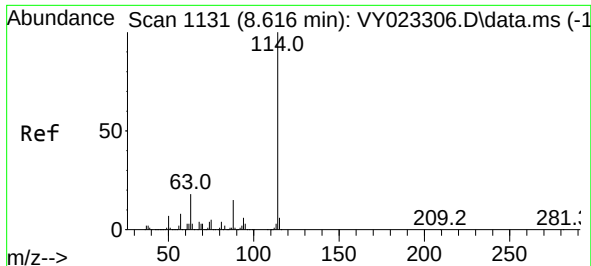
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025



#33
1,2-Dichloroethane-d4
Concen: 57.988 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

Tgt Ion: 65 Resp: 290524
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023345.D

Acq: 11 Sep 2025 13:21

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0139

Tgt Ion:114 Resp: 106615

Ion Ratio Lower Upper

114 100

63 17.2 0.0 38.4

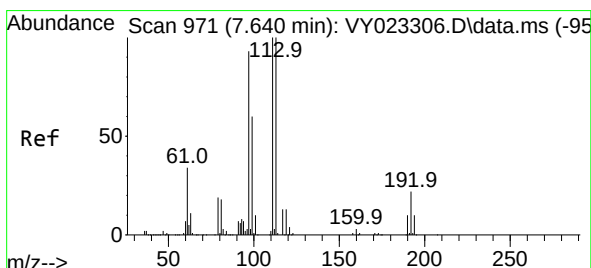
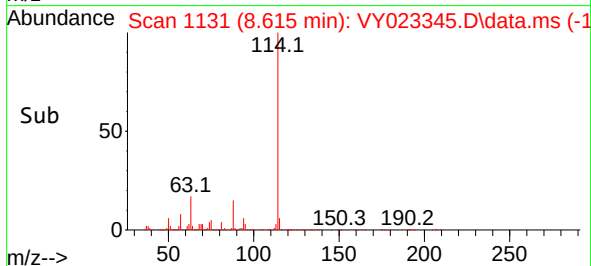
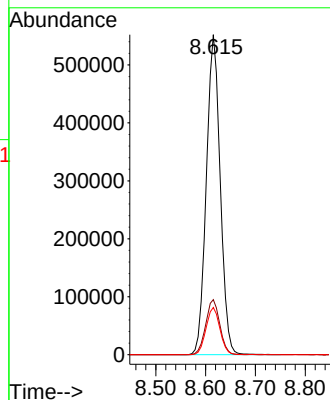
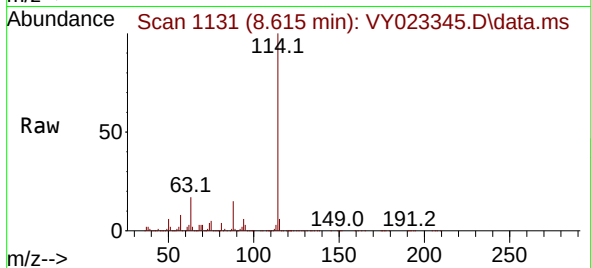
88 14.8 0.0 30.0

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#35

Dibromofluoromethane

Concen: 51.950 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.006 min

Lab File: VY023345.D

Acq: 11 Sep 2025 13:21

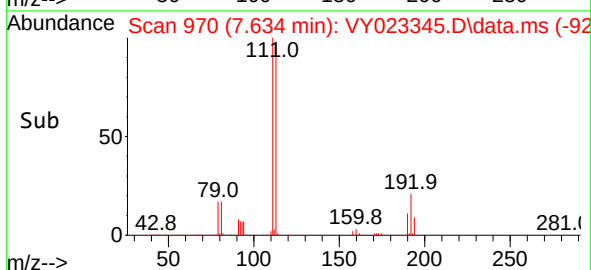
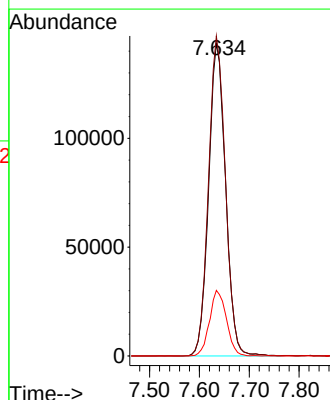
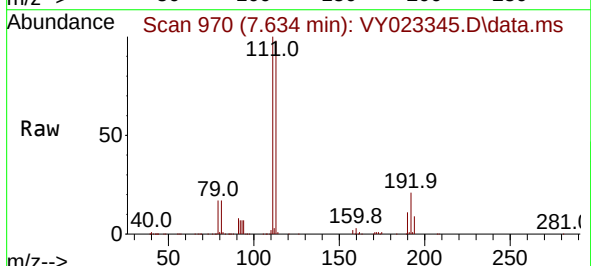
Tgt Ion:113 Resp: 338561

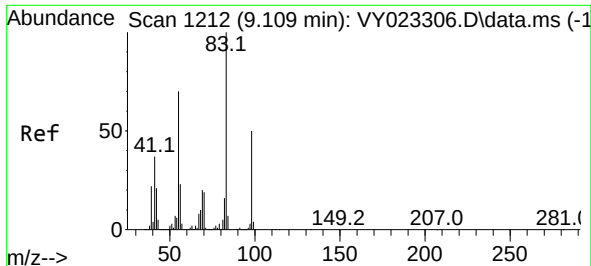
Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

192 21.0 16.2 24.4





#39

Methylcyclohexane

Concen: 2.434 ug/l

RT: 9.109 min Scan# 1043

Delta R.T. 0.006 min

Lab File: VY023345.D

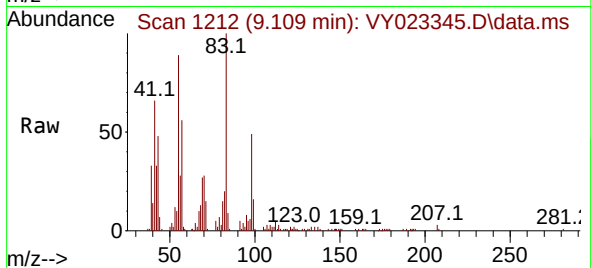
Acq: 11 Sep 2025 13:21

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0139

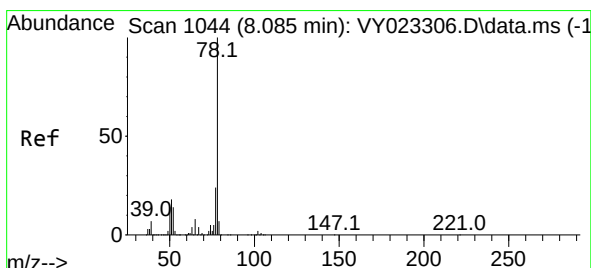
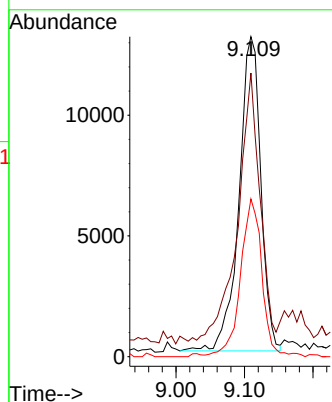
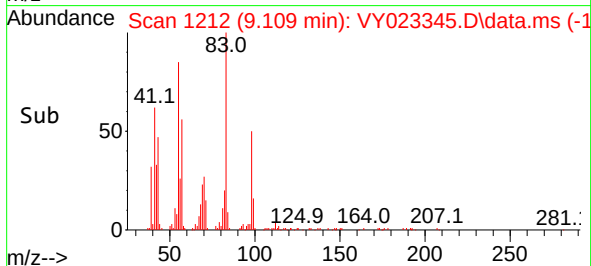


Tgt Ion: 83	Resp: 2889
Ion Ratio	Lower Upper
83	100
55	83.7 57.6 86.4
98	50.2 39.2 58.8

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#40

Benzene

Concen: 2.440 ug/l

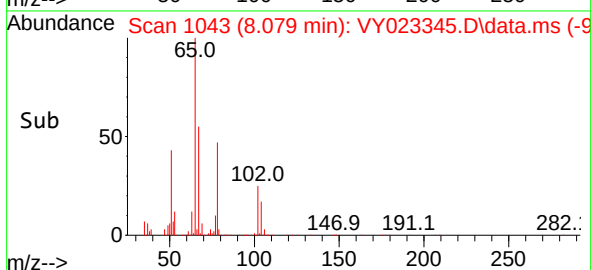
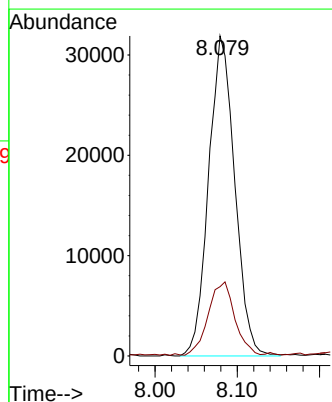
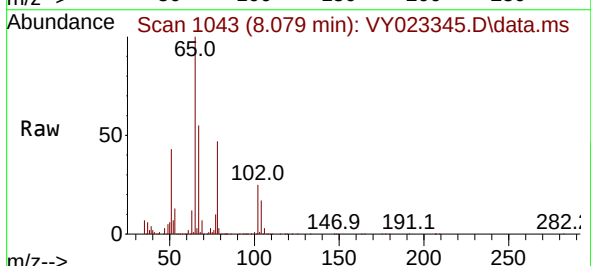
RT: 8.079 min Scan# 1043

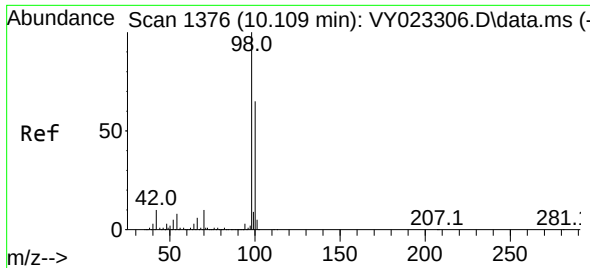
Delta R.T. 0.006 min

Lab File: VY023345.D

Acq: 11 Sep 2025 13:21

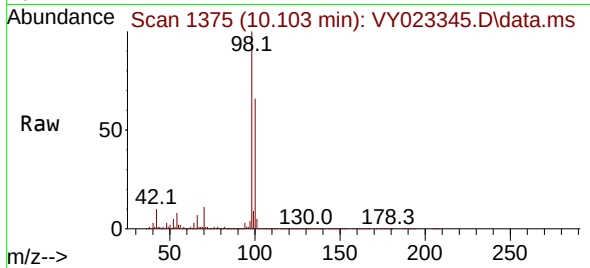
Tgt Ion: 78	Resp: 70384
Ion Ratio	Lower Upper
78	100
77	21.3 18.6 28.0





#50
Toluene-d8
Concen: 49.914 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

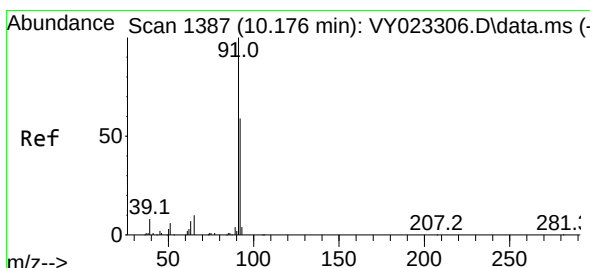
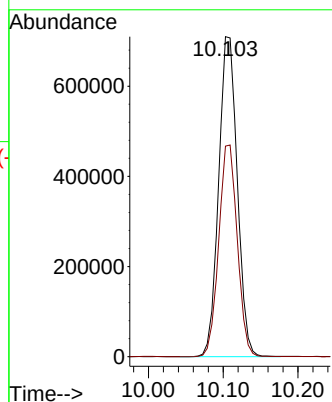
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion: 98 Resp: 1228329
Ion Ratio Lower Upper
98 100
100 65.9 52.3 78.5

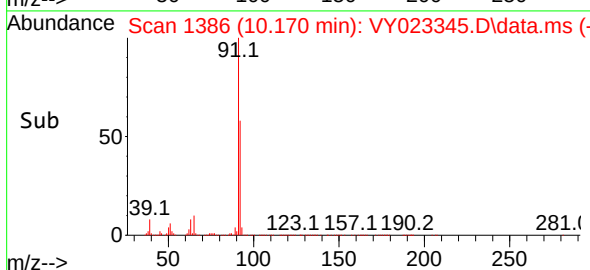
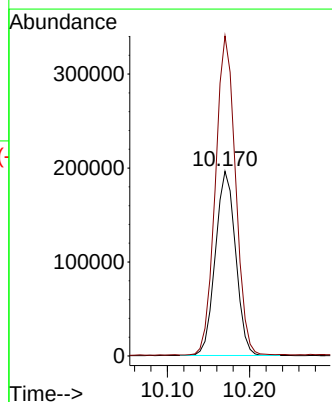
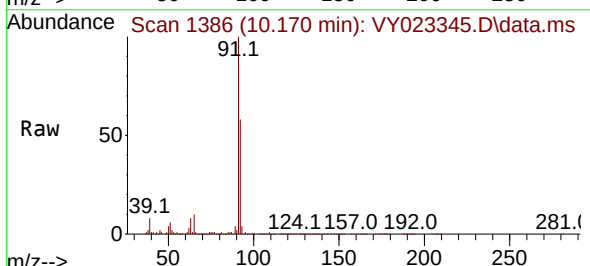
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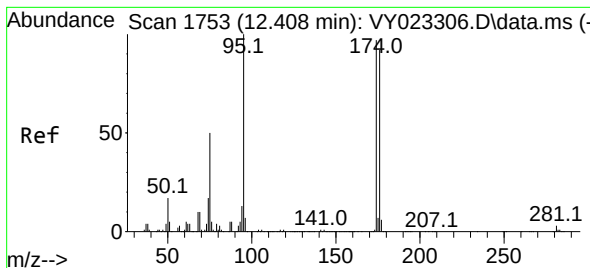
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025



#52
Toluene
Concen: 18.286 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

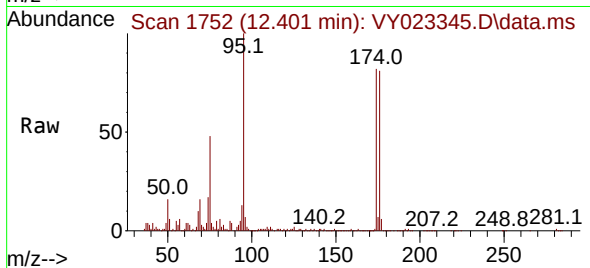
Tgt Ion: 92 Resp: 334805
Ion Ratio Lower Upper
92 100
91 172.4 136.4 204.6





#62
4-Bromofluorobenzene
Concen: 42.183 ug/l
RT: 12.401 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

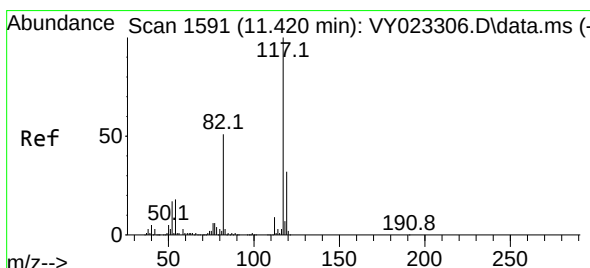
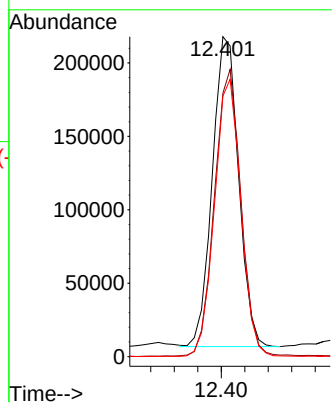
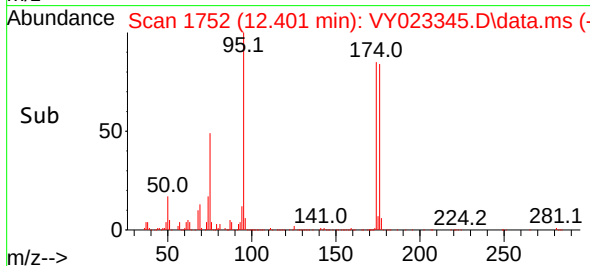
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



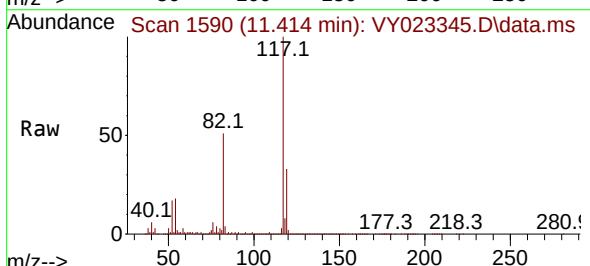
Tgt Ion: 95 Resp: 32667
Ion Ratio Lower Upper
95 100
174 94.2 0.0 171.6
176 89.9 0.0 167.6

Manual Integrations
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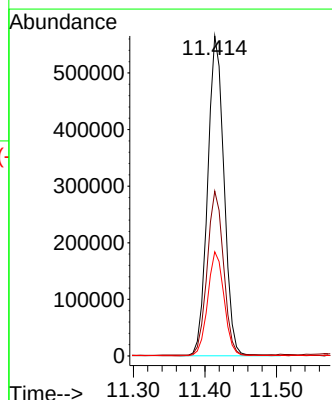
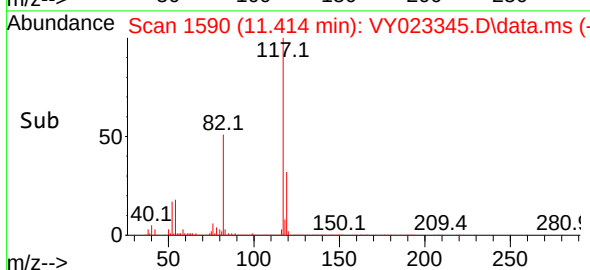
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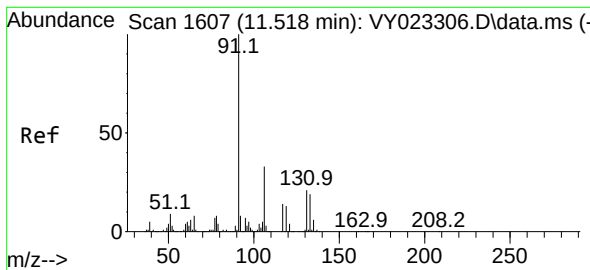


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21



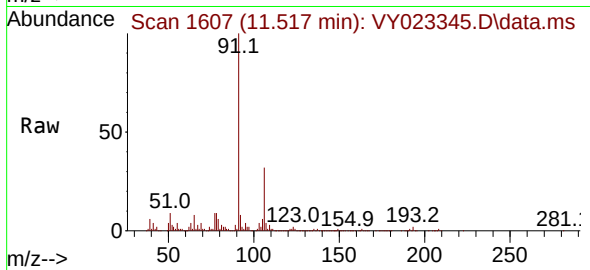
Tgt Ion:117 Resp: 894408
Ion Ratio Lower Upper
117 100
82 51.2 43.4 65.0
119 32.4 25.6 38.4





#67
Ethyl Benzene
Concen: 6.836 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

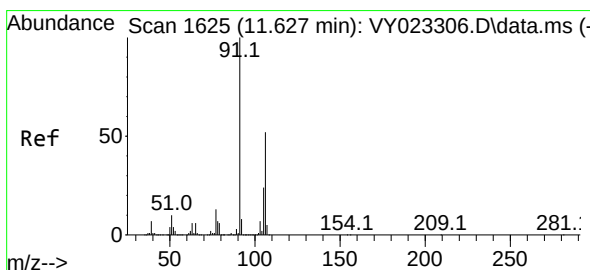
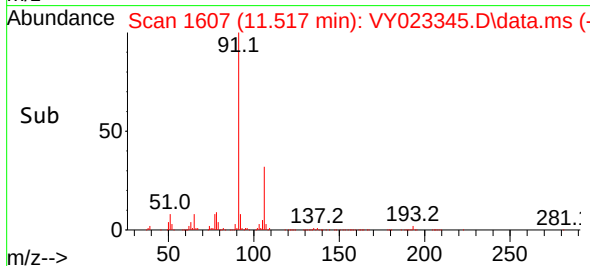
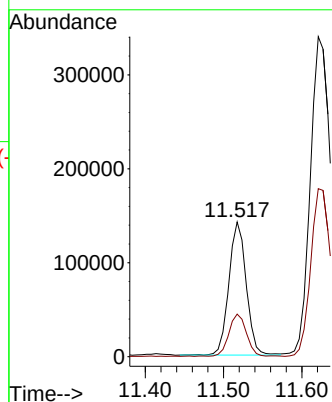
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion: 91 Resp: 218818
Ion Ratio Lower Upper
91 100
106 31.7 25.0 37.4

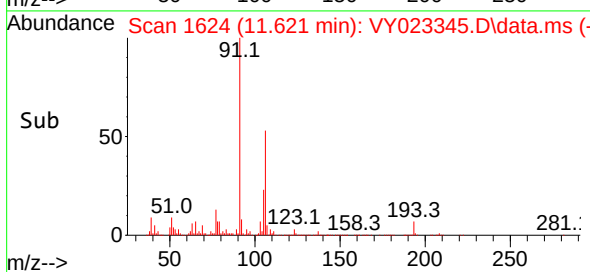
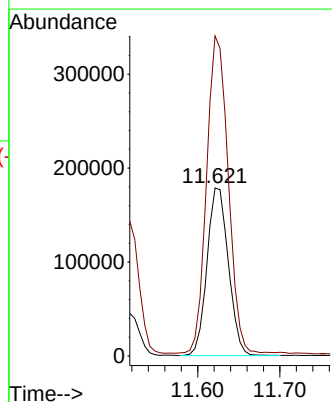
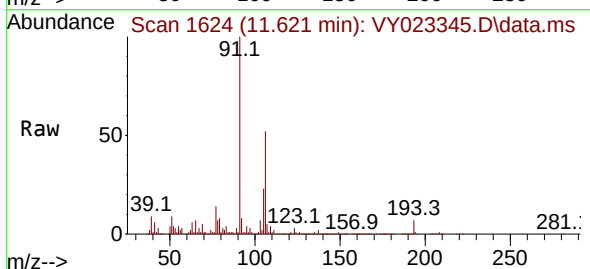
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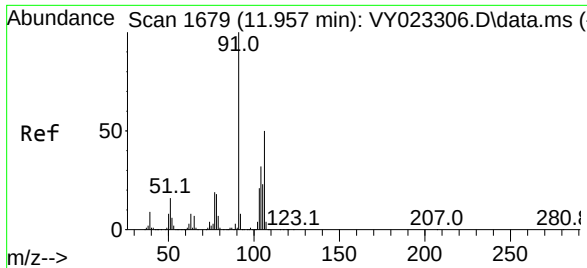
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025



#68
m/p-Xylenes
Concen: 25.110 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.000 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

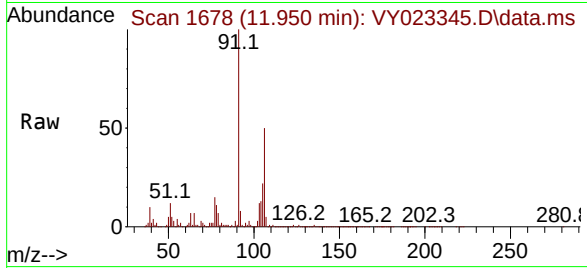
Tgt Ion:106 Resp: 321856
Ion Ratio Lower Upper
106 100
91 192.6 158.6 238.0





#69
o-Xylene
Concen: 21.144 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.000 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

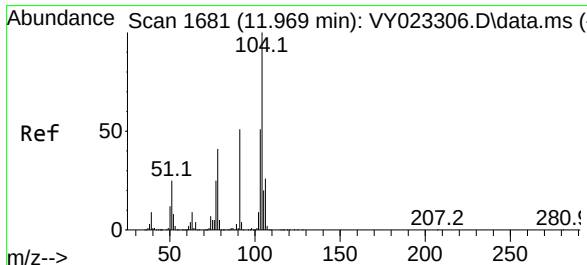
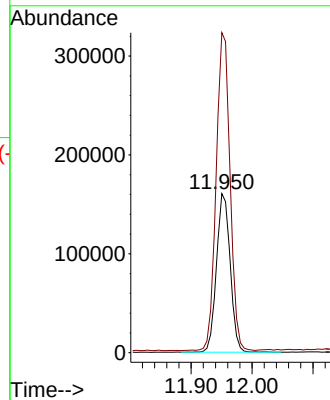
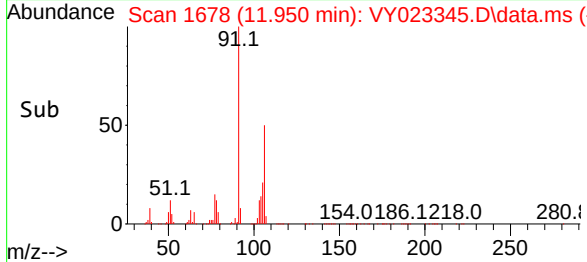
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



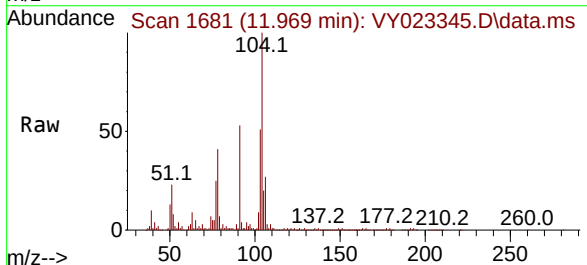
Tgt Ion:106 Resp: 250898
Ion Ratio Lower Upper
106 100
91 202.8 103.2 309.4

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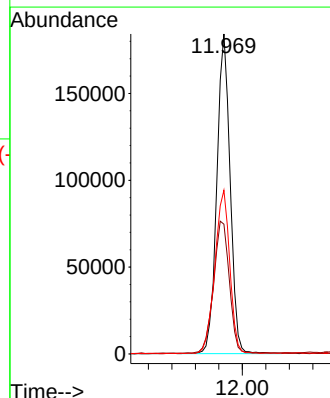
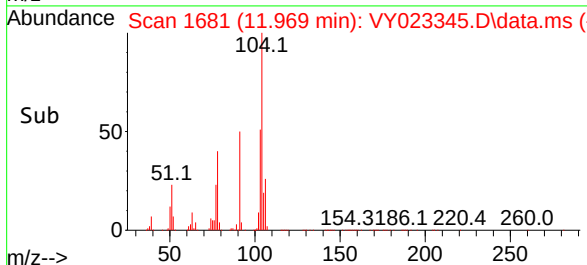
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025

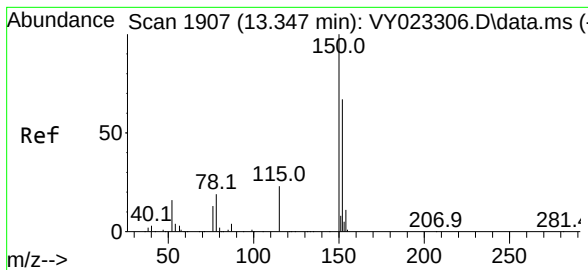


#70
Styrene
Concen: 14.709 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21



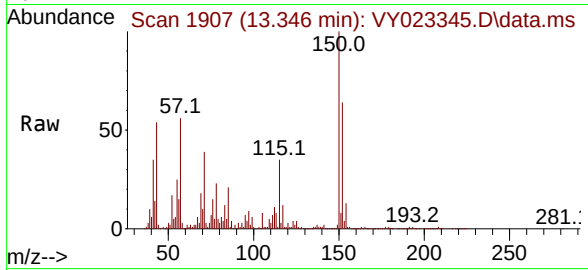
Tgt Ion:104 Resp: 289264
Ion Ratio Lower Upper
104 100
78 48.8 38.5 57.7
103 57.2 43.7 65.5





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

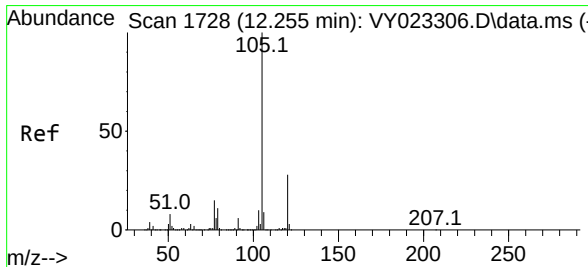
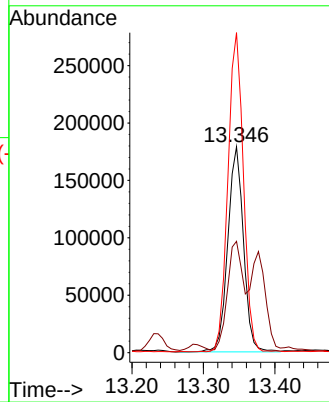
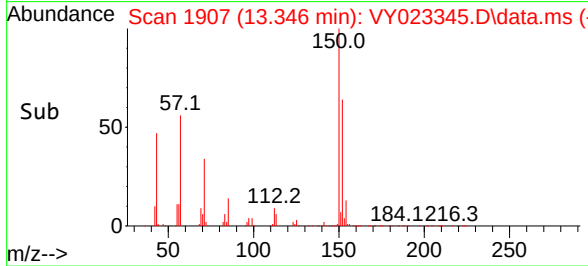
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion:152 Resp: 27165
Ion Ratio Lower Upper
152 100
115 52.7 28.2 84.6
150 153.7 0.0 348.0

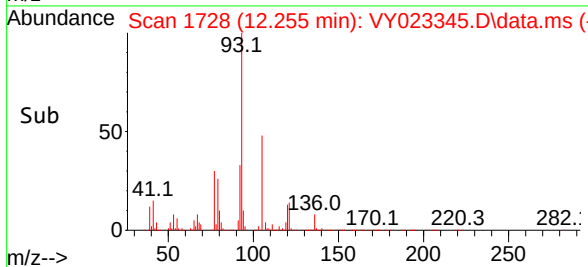
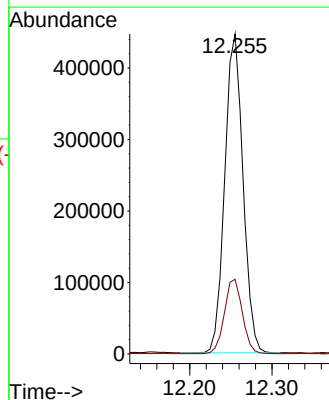
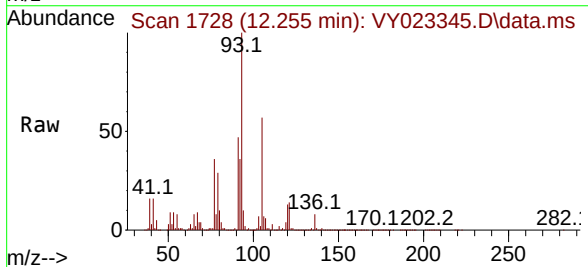
Manual Integrations
APPROVED

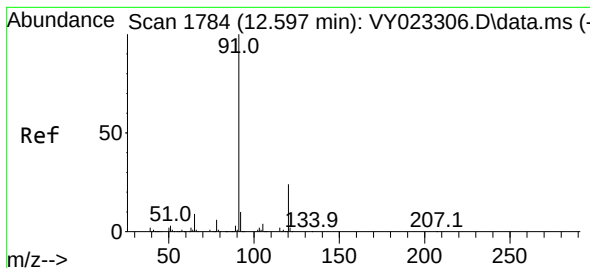
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025



#73
Isopropylbenzene
Concen: 37.562 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

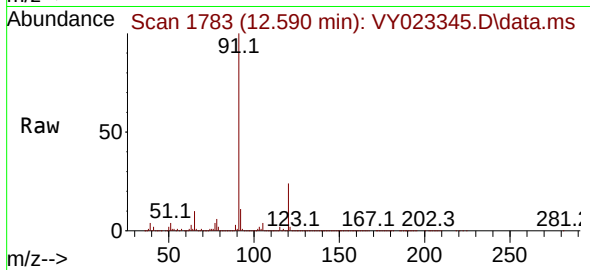
Tgt Ion:105 Resp: 687341
Ion Ratio Lower Upper
105 100
120 23.0 13.4 40.2





#78
n-propylbenzene
Concen: 136.278 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

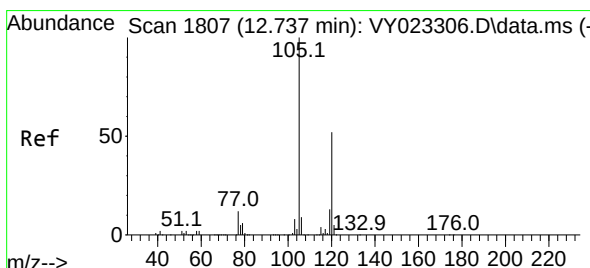
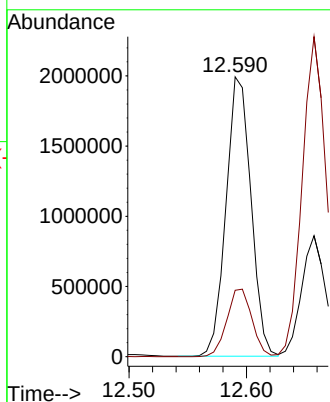
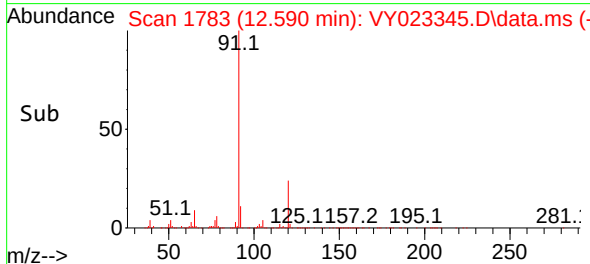
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



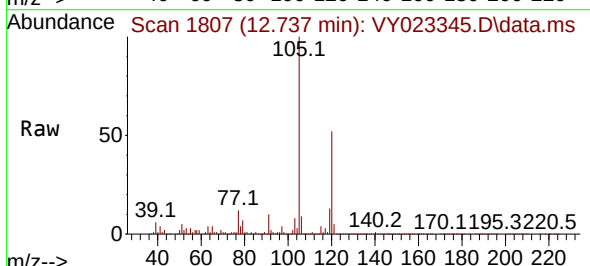
Tgt Ion: 91 Resp: 293916
Ion Ratio Lower Upper
91 100
120 24.3 11.5 34.5

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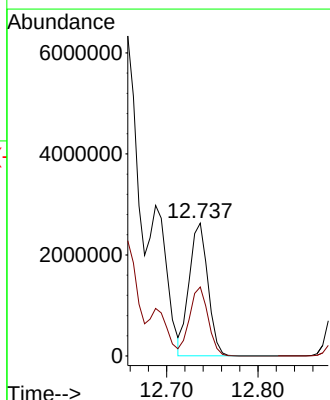
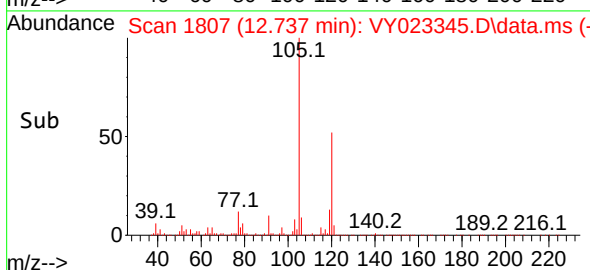
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025

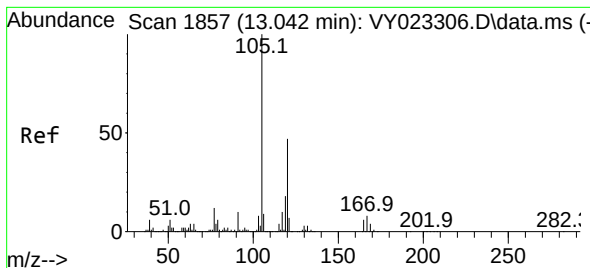


#80
1,3,5-Trimethylbenzene
Concen: 251.541 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21



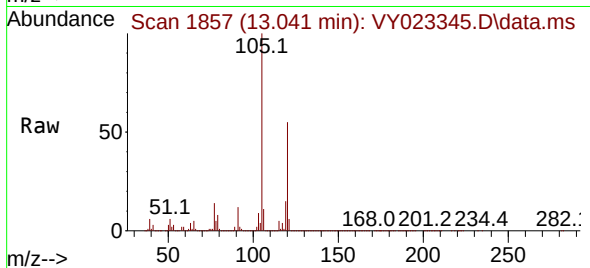
Tgt Ion:105 Resp: 3743637
Ion Ratio Lower Upper
105 100
120 51.5 24.8 74.4





#84
1,2,4-Trimethylbenzene
Concen: 812.489 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

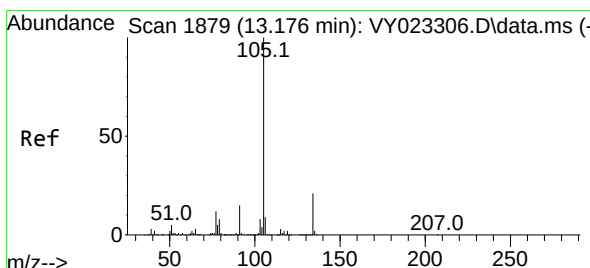
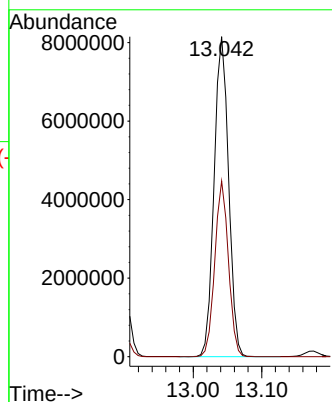
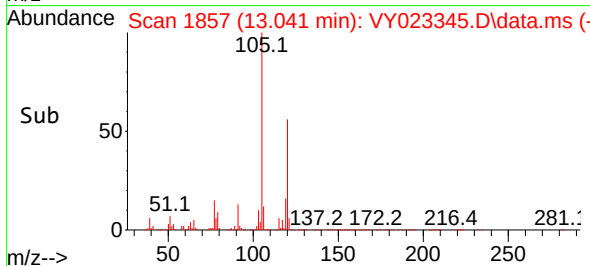
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



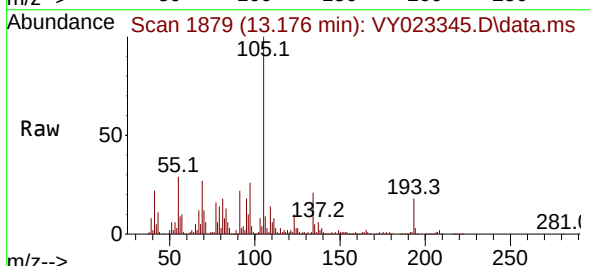
Tgt Ion:105 Resp:1196247
Ion Ratio Lower Upper
105 100
120 51.7 23.0 69.0

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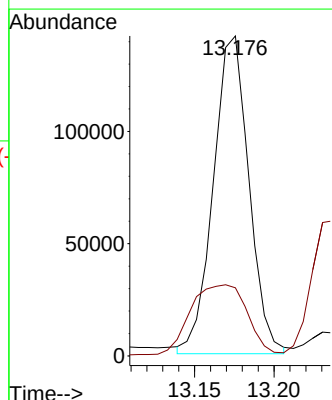
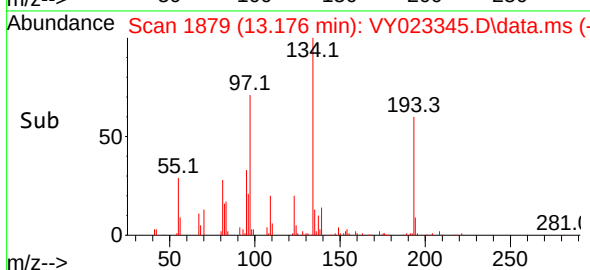
Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025

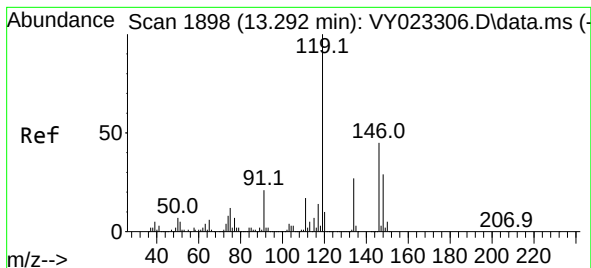


#85
sec-Butylbenzene
Concen: 11.230 ug/l m
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21



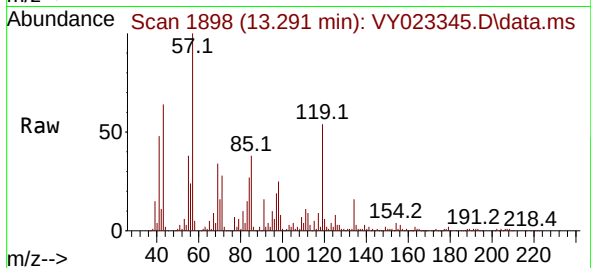
Tgt Ion:105 Resp: 220241
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.4#





#86
p-Isopropyltoluene
Concen: 6.418 ug/l m
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

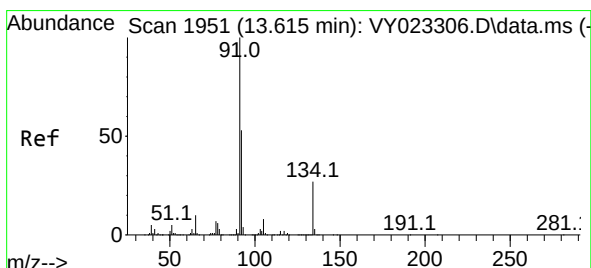
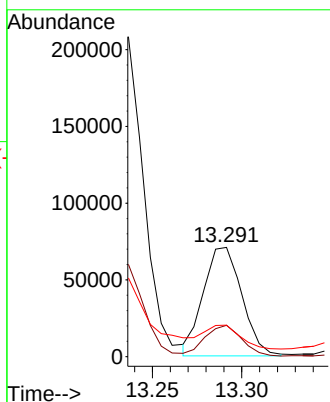
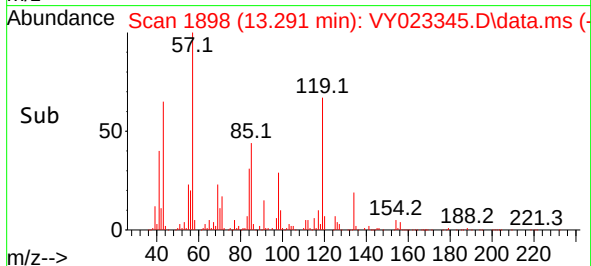
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0139



Tgt Ion: 119 Resp: 106328
Ion Ratio Lower Upper
119 100
134 84.7 13.2 39.6
91 70.5 11.3 33.8

Manual Integrations
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Reviewed By :Mahesh Dadoda 09/12/2025
Supervised By :Semsettin Yesilyurt 09/12/2025



#89
n-Butylbenzene
Concen: 5.721 ug/l m
RT: 13.615 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VY023345.D
Acq: 11 Sep 2025 13:21

Tgt Ion: 91 Resp: 84050
Ion Ratio Lower Upper
91 100
92 68.0 26.9 80.7
134 0.0 13.2 39.5

