

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV039004.D
 Acq On : 21 Aug 2025 23:59
 Operator : SY/MD
 Sample : Q2924-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-201-082025

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 04:42:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.606	168	456156	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	816696	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.779	117	704493	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.178	152	442841	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.950	65	369010	57.652	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 115.300%			
35) Dibromofluoromethane	4.506	113	272796	44.540	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 89.080%			
50) Toluene-d8	7.255	98	958827	44.894	ug/l	0.02
Spiked Amount 50.000	Range 89 - 112		Recovery = 89.780%			
62) 4-Bromofluorobenzene	10.005	95	435202	55.701	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 111.400%			
Target Compounds						
						Qvalue
19) Methyl tert-butyl Ether	2.712	73	14093	0.921	ug/l #	79
21) trans-1,2-Dichloroethene	2.703	96	1148589	213.010	ug/l	96
27) cis-1,2-Dichloroethene	3.818	96	948797	145.786	ug/l	92
40) Benzene	4.989	78	42836114m	1719.434	ug/l	
44) Trichloroethene	5.837	130	182094	26.946	ug/l	93
52) Toluene	7.300	92	53983621m	3421.475	ug/l	
67) Ethyl Benzene	8.934	91	16891172m	651.398	ug/l	
68) m/p-Xylenes	9.062	106	24375390m	2420.399	ug/l	
69) o-Xylene	9.477	106	23348534m	2543.667	ug/l	
70) Styrene	9.487	104	30354044m	1927.481	ug/l	
73) Isopropylbenzene	9.863	105	248185	8.352	ug/l	99
78) n-propylbenzene	10.281	91	1077764	30.377	ug/l	99
80) 1,3,5-Trimethylbenzene	10.468	105	4676312	186.995	ug/l	99
84) 1,2,4-Trimethylbenzene	10.840	105	15846996	662.178	ug/l	88

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

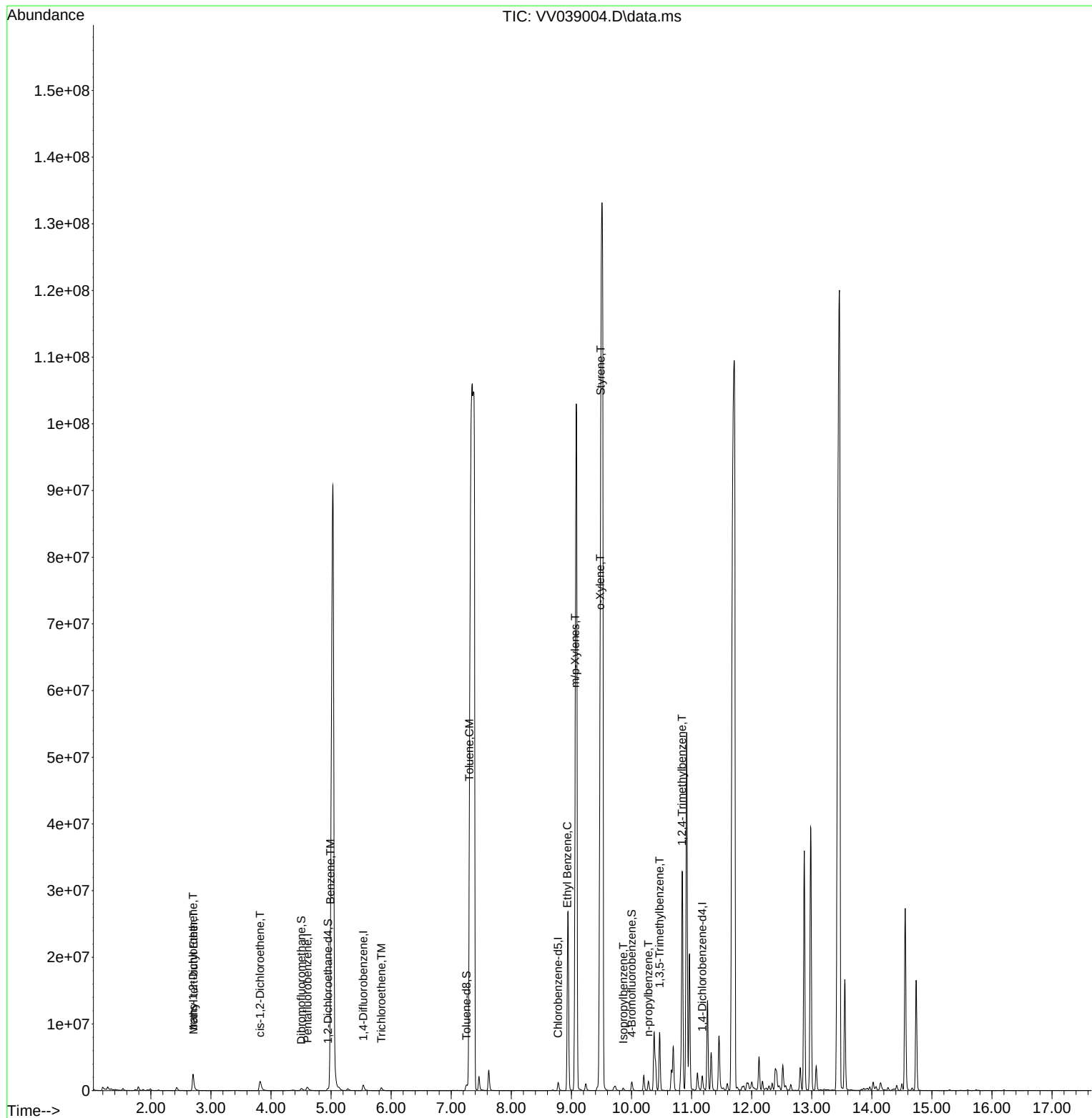
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
Data File : VV039004.D
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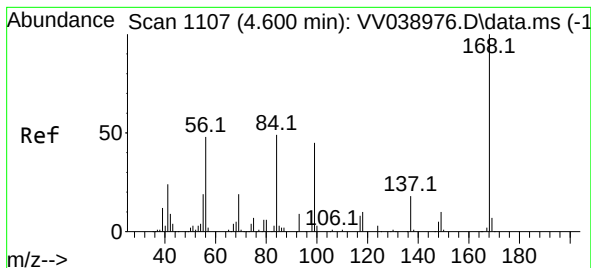
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Quant Title : SW846 8260
QLast Update : Fri Aug 22 04:15:04 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.606 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

Instrument :

MSVOA_V

ClientSampleId :

MW-201-082025

Tgt Ion:168 Resp: 456150

Ion Ratio Lower Upper

168 100

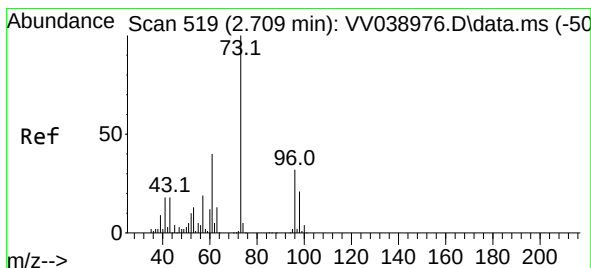
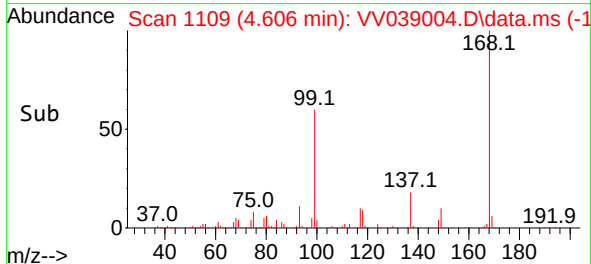
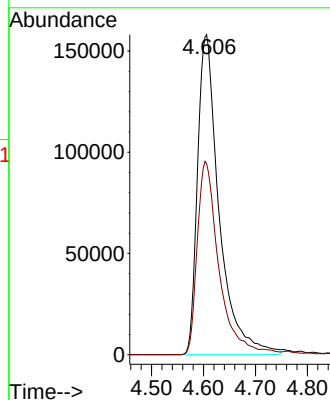
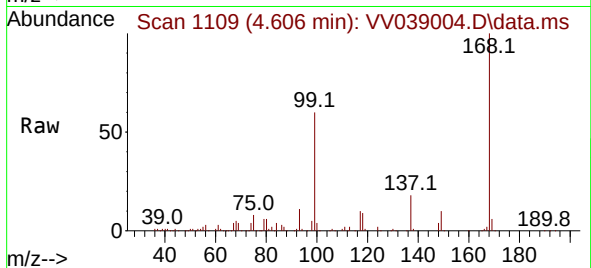
99 59.7 47.0 70.6

Manual Integrations

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#19

Methyl tert-butyl Ether

Concen: 0.921 ug/l

RT: 2.712 min Scan# 520

Delta R.T. 0.003 min

Lab File: VV039004.D

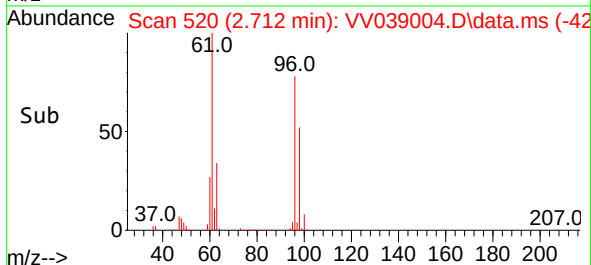
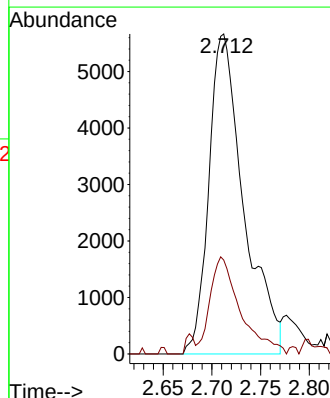
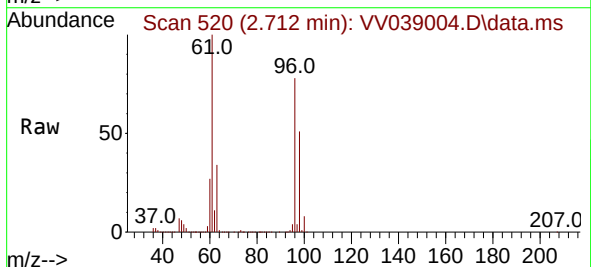
Acq: 21 Aug 2025 23:59

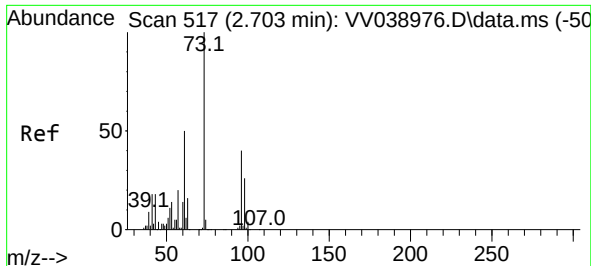
Tgt Ion: 73 Resp: 14093

Ion Ratio Lower Upper

73 100

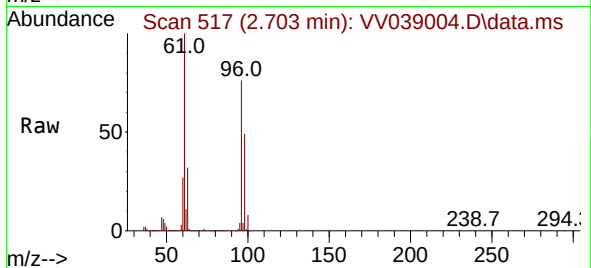
57 29.3 15.7 23.5#





#21
trans-1,2-Dichloroethene
Concen: 213.010 ug/l
RT: 2.703 min Scan# 517
Delta R.T. -0.000 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

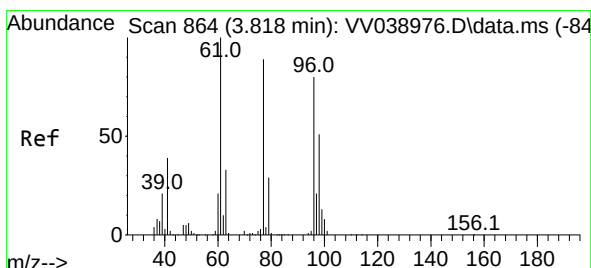
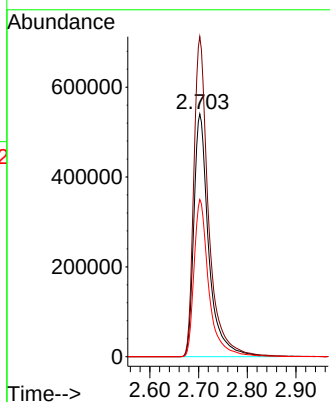
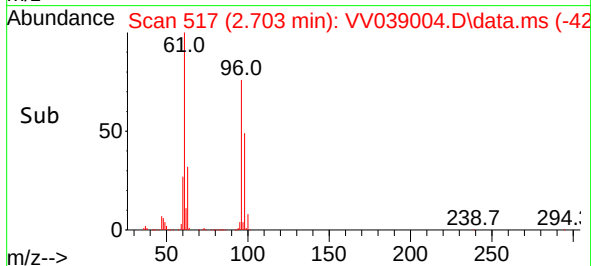
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025



Tgt Ion: 96 Resp: 1148589
Ion Ratio Lower Upper
96 100
61 131.8 100.6 151.0
98 64.7 51.5 77.3

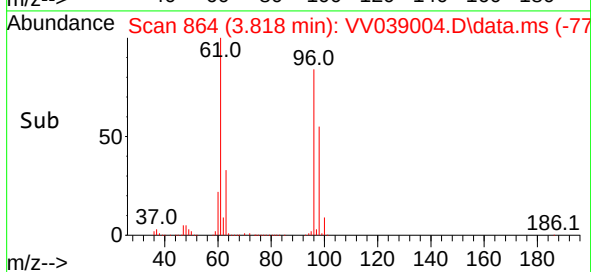
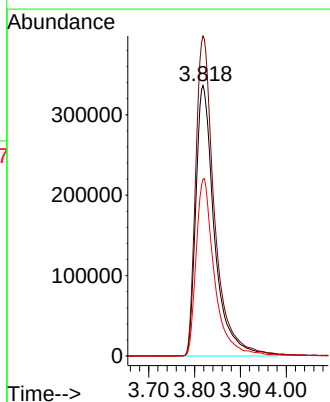
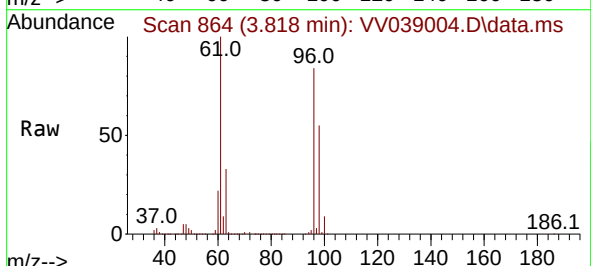
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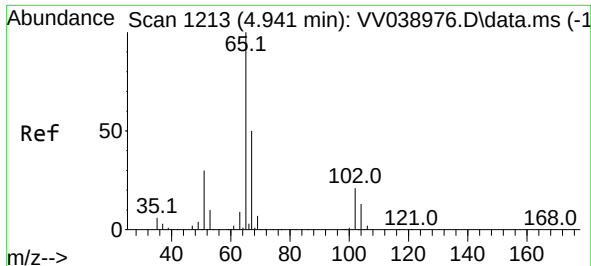
Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



#27
cis-1,2-Dichloroethene
Concen: 145.786 ug/l
RT: 3.818 min Scan# 864
Delta R.T. 0.000 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

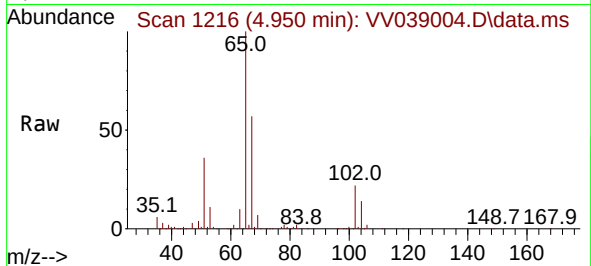
Tgt Ion: 96 Resp: 948797
Ion Ratio Lower Upper
96 100
61 119.3 0.0 264.4
98 64.3 0.0 131.8





#33
1,2-Dichloroethane-d4
Concen: 57.652 ug/l
RT: 4.950 min Scan# 1216
Delta R.T. 0.009 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

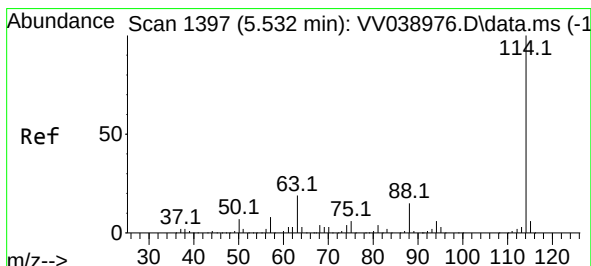
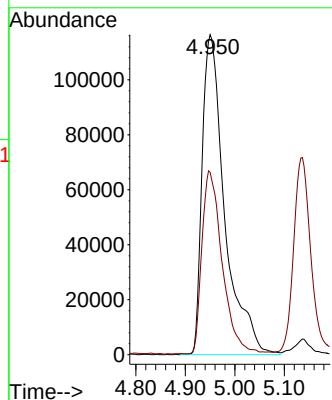
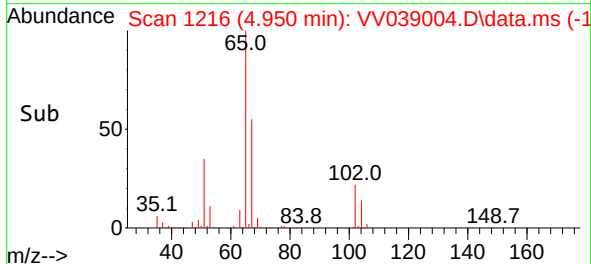
Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025



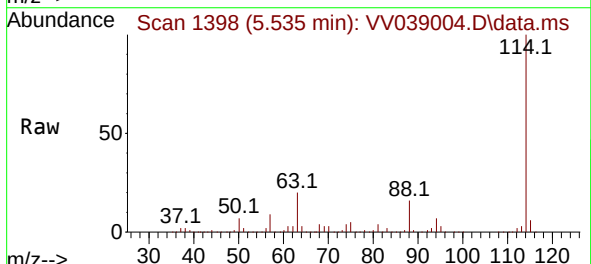
Tgt Ion: 65 Resp: 369010
Ion Ratio Lower Upper
65 100
67 51.1 0.0 100.4

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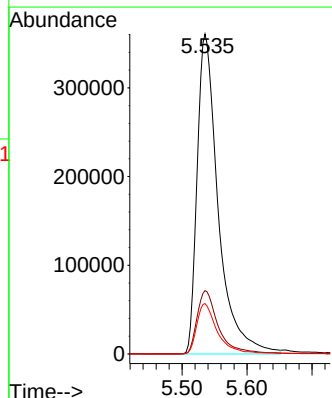
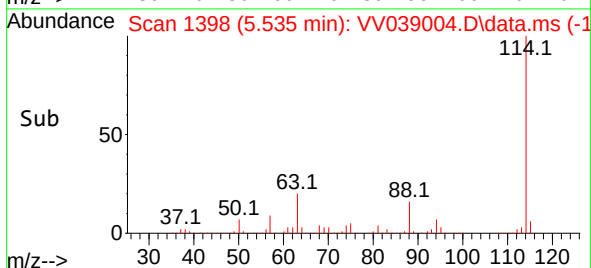
Reviewed By :John Carlone 08/22/2025
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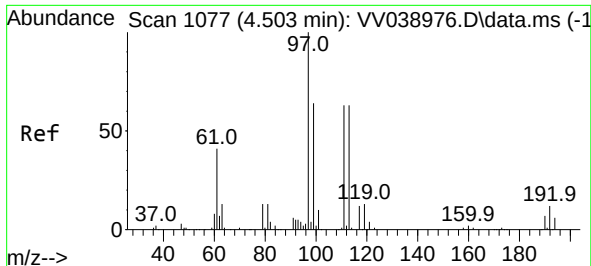


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59



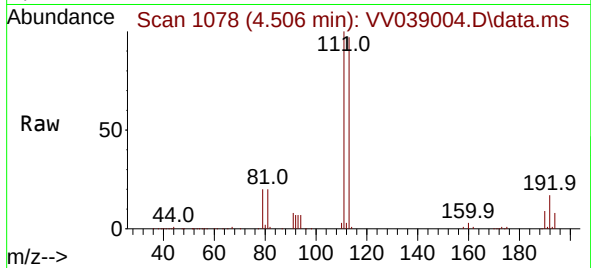
Tgt Ion:114 Resp: 816696
Ion Ratio Lower Upper
114 100
63 19.8 0.0 37.4
88 15.7 0.0 30.4





#35
Dibromofluoromethane
Concen: 44.540 ug/l
RT: 4.506 min Scan# 1077
Delta R.T. 0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

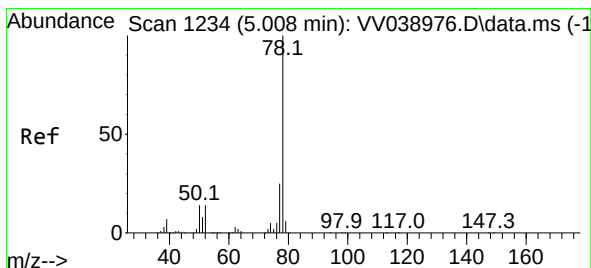
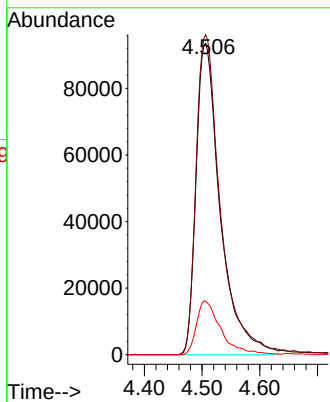
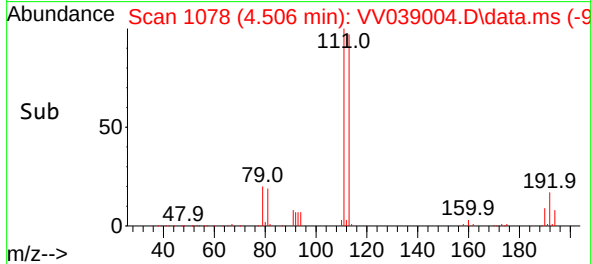
Instrument :
MSVOA_V
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MW-201-082025



Tgt Ion:113 Resp: 272790
Ion Ratio Lower Upper
113 100
111 103.5 81.3 121.9
192 17.4 15.4 23.0

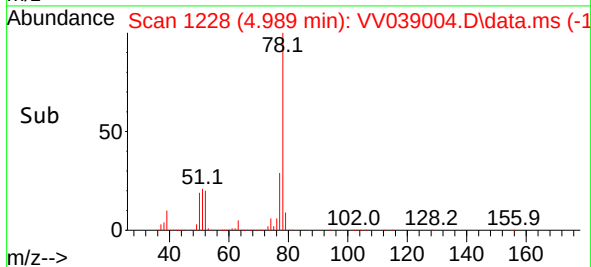
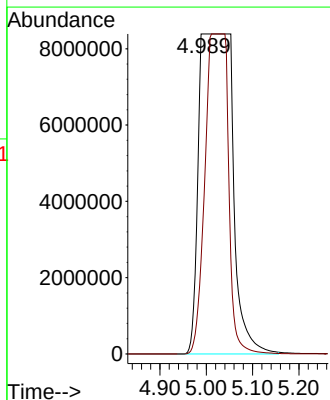
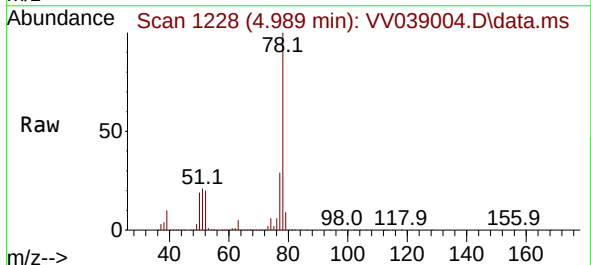
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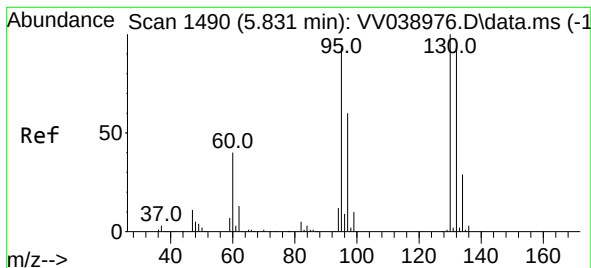
Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



#40
Benzene
Concen: 1719.434 ug/l m
RT: 4.989 min Scan# 1228
Delta R.T. -0.019 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Tgt Ion: 78 Resp:42836114
Ion Ratio Lower Upper
78 100
77 29.4 19.6 29.4





#44

Trichloroethene

Concen: 26.946 ug/l

RT: 5.837 min Scan# 1490

Delta R.T. 0.006 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

Instrument :

MSVOA_V

ClientSampleId :

MW-201-082025

Tgt Ion:130 Resp: 182094

Ion Ratio Lower Upper

130 100

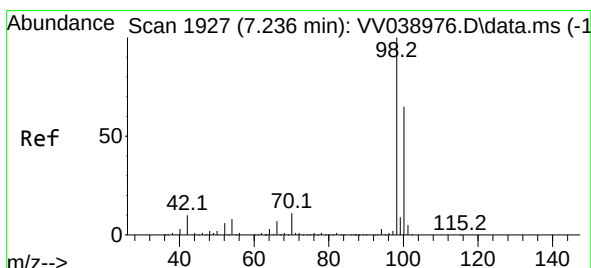
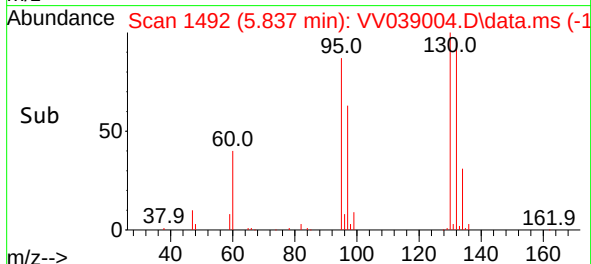
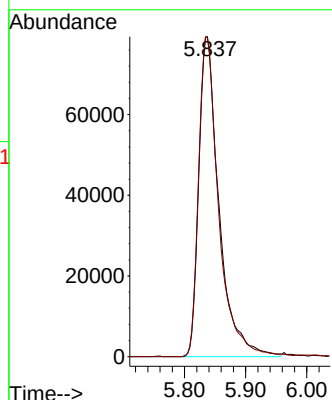
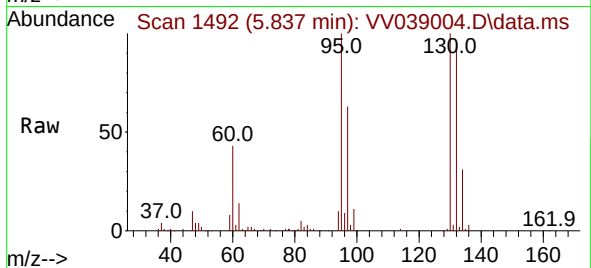
95 100.0 0.0 186.6

Manual Integrations

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Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025



#50

Toluene-d8

Concen: 44.894 ug/l

RT: 7.255 min Scan# 1933

Delta R.T. 0.019 min

Lab File: VV039004.D

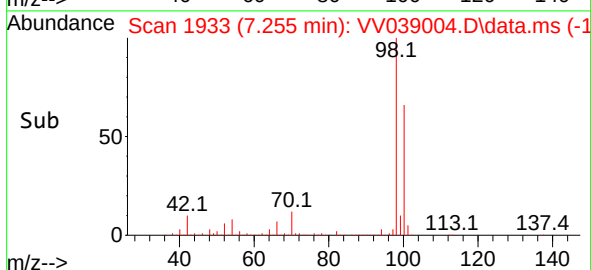
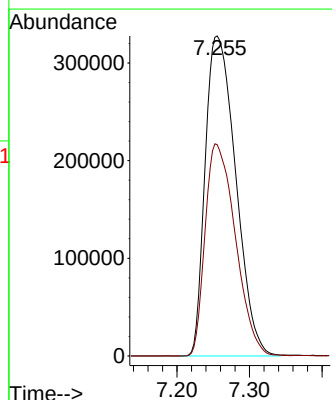
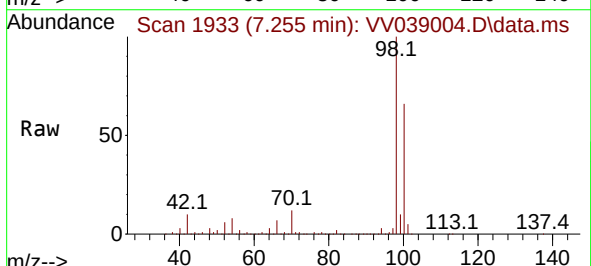
Acq: 21 Aug 2025 23:59

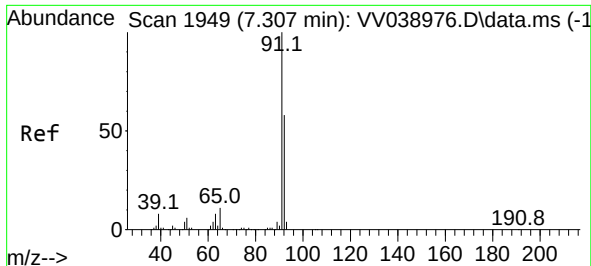
Tgt Ion: 98 Resp: 958827

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.2





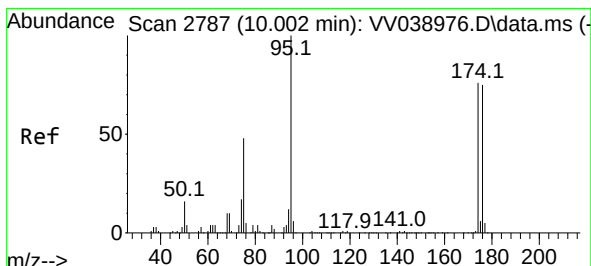
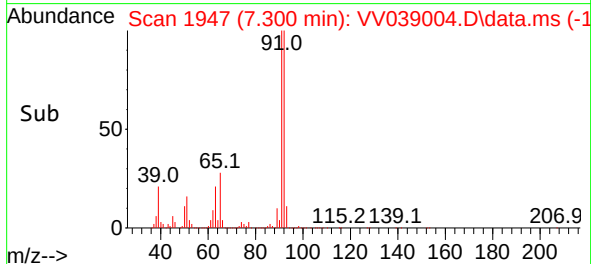
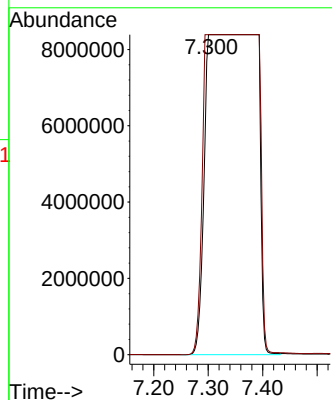
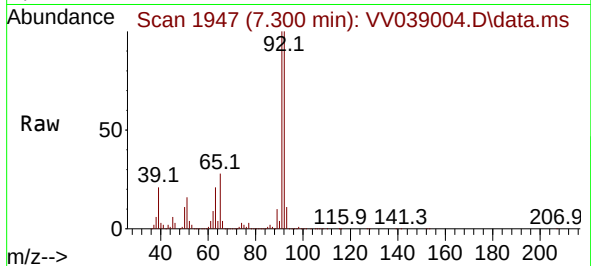
#52
Toluene
Concen: 3421.475 ug/l m
RT: 7.300 min Scan# 1949
Delta R.T. -0.007 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025

Tgt Ion: 92 Resp: 5398362
Ion Ratio Lower Upper
92 100
91 0.0 136.3 204.5

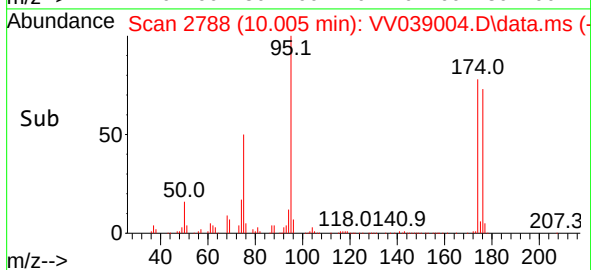
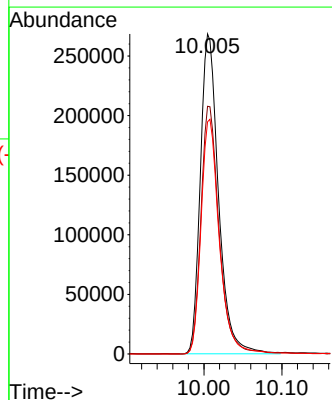
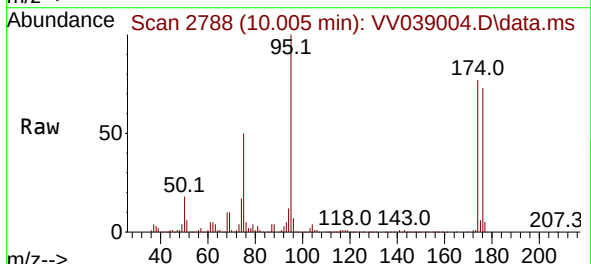
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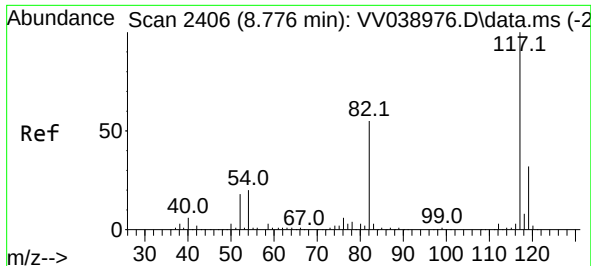
Reviewed By : John Carlone 08/22/2025
Supervised By : Mahesh Dadoda 08/25/2025



#62
4-Bromofluorobenzene
Concen: 55.701 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. 0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

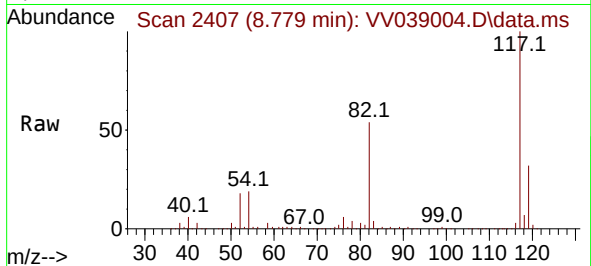
Tgt Ion: 95 Resp: 435202
Ion Ratio Lower Upper
95 100
174 77.2 0.0 154.4
176 74.1 0.0 148.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.779 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

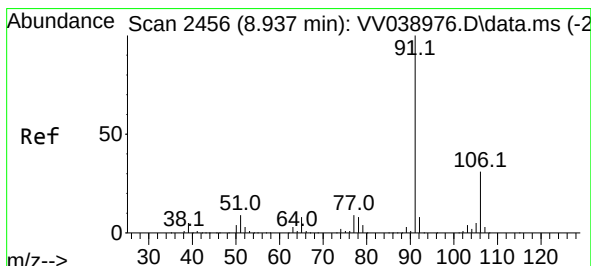
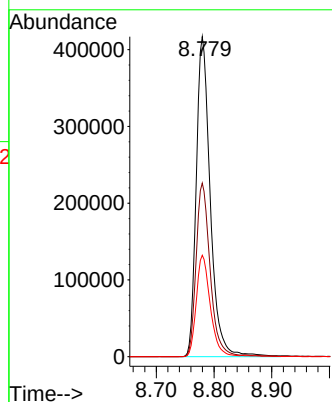
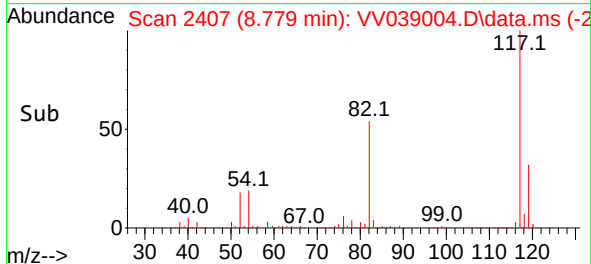
Instrument :
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Tgt Ion:117 Resp: 70449
Ion Ratio Lower Upper
117 100
82 54.2 44.4 66.6
119 31.7 26.0 39.0

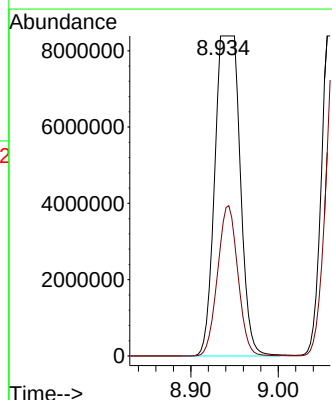
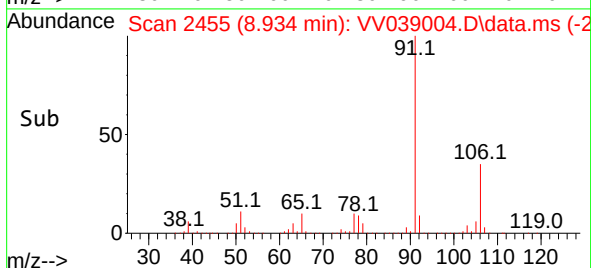
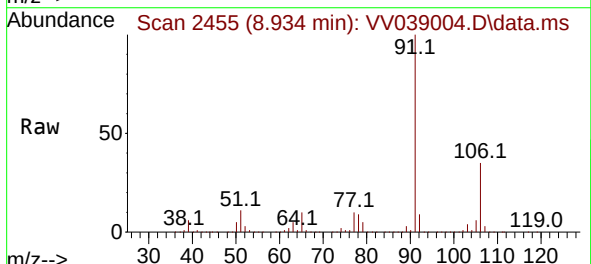
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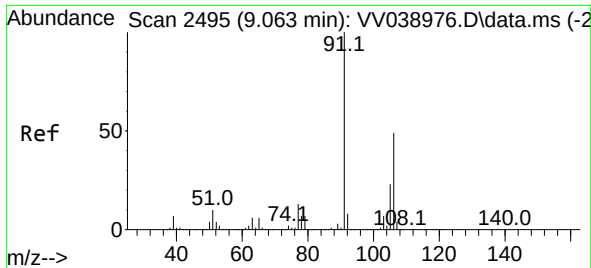
Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



#67
Ethyl Benzene
Concen: 651.398 ug/l m
RT: 8.934 min Scan# 2455
Delta R.T. -0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Tgt Ion: 91 Resp:16891172
Ion Ratio Lower Upper
91 100
106 34.7 24.6 36.8





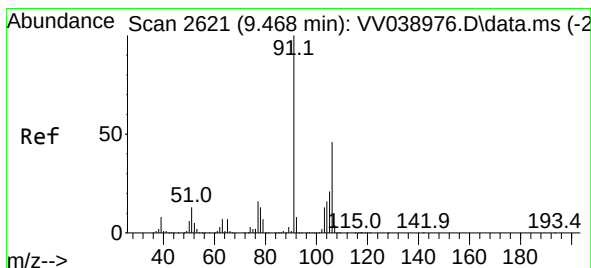
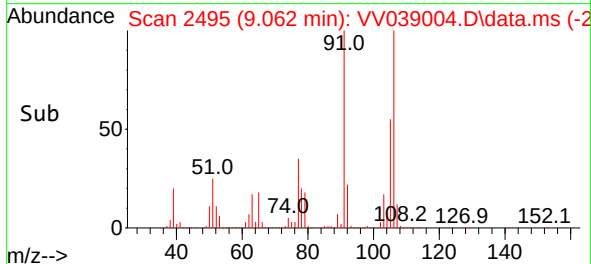
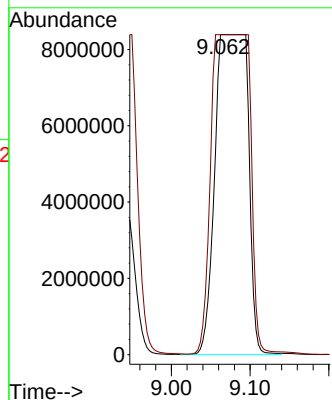
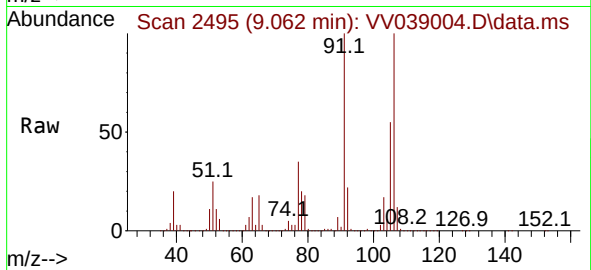
#68
m/p-Xylenes
Concen: 2420.399 ug/l m
RT: 9.062 min Scan# 2495
Delta R.T. -0.000 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025

Tgt Ion:106 Resp:24375390
Ion Ratio Lower Upper
106 100
91 0.0 163.6 245.4

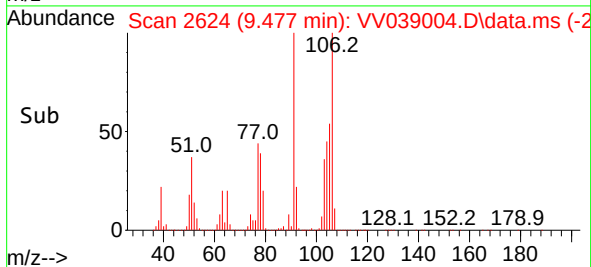
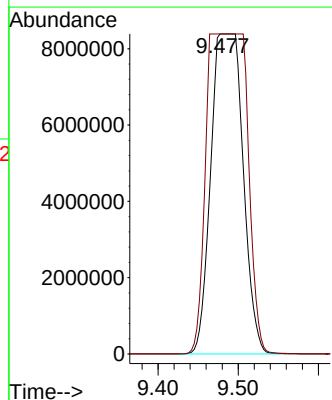
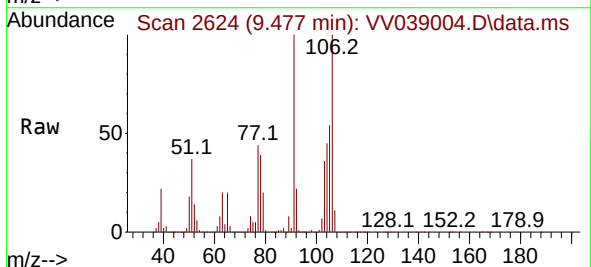
Manual Integrations
APPROVED

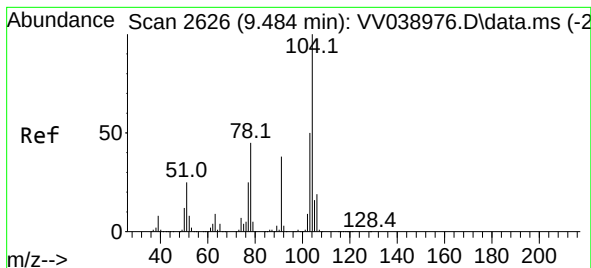
Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



#69
o-Xylene
Concen: 2543.667 ug/l m
RT: 9.477 min Scan# 2624
Delta R.T. 0.009 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Tgt Ion:106 Resp:23348534
Ion Ratio Lower Upper
106 100
91 0.0 108.0 324.0





#70

Styrene

Concen: 1927.481 ug/l m

RT: 9.487 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

Instrument :

MSVOA_V

ClientSampleId :

MW-201-082025

Tgt Ion:104 Resp:3035404

Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.8

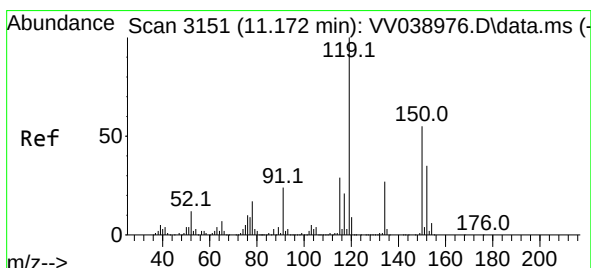
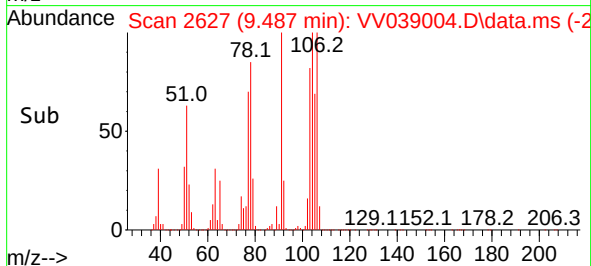
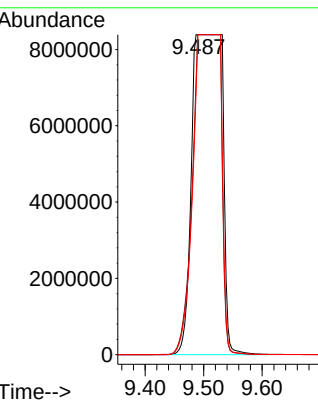
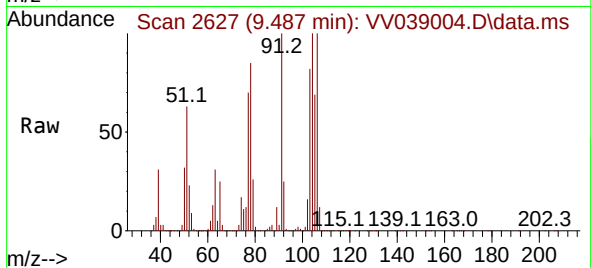
103 0.0 43.5 65.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.178 min Scan# 3153

Delta R.T. 0.006 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

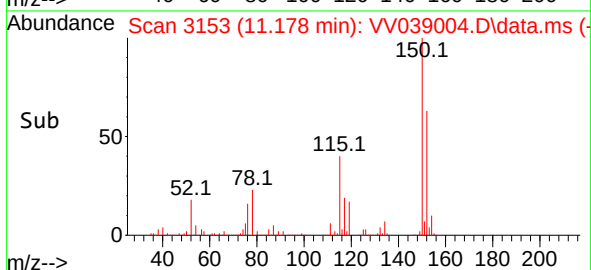
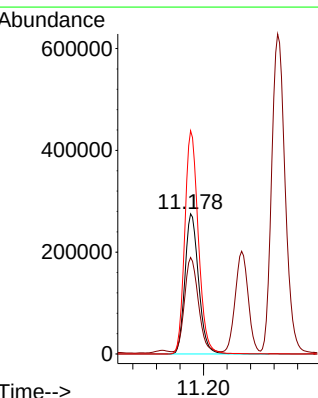
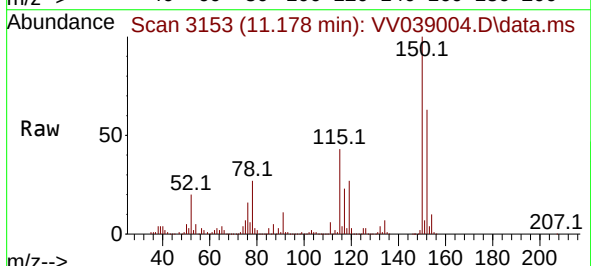
Tgt Ion:152 Resp: 442841

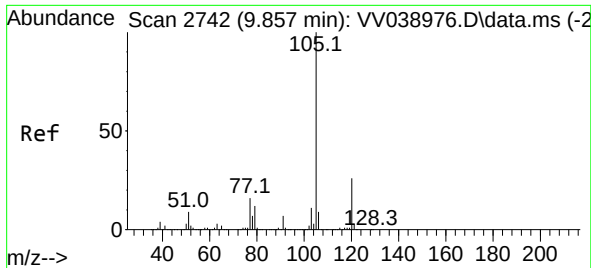
Ion Ratio Lower Upper

152 100

115 67.3 42.5 127.5

150 158.5 0.0 344.8





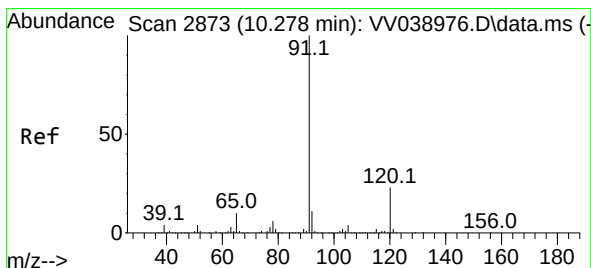
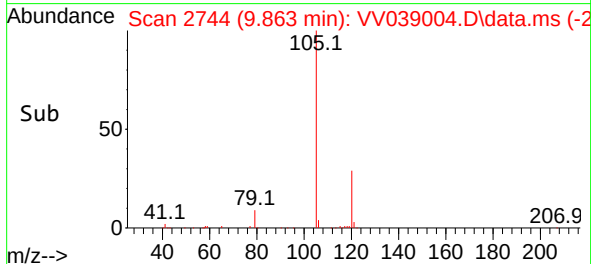
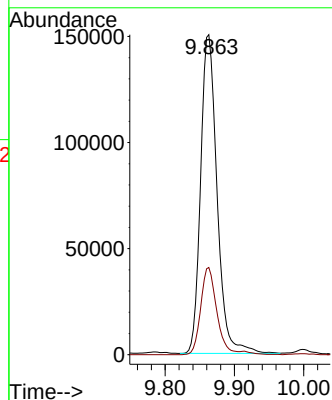
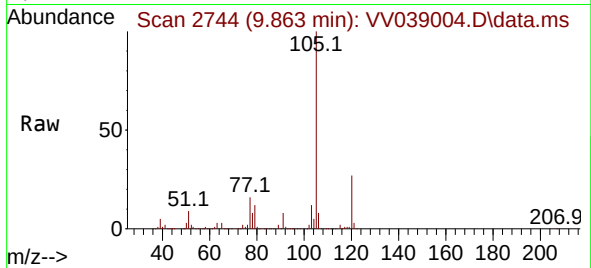
#73
Isopropylbenzene
Concen: 8.352 ug/l
RT: 9.863 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Instrument :
MSVOA_V
ClientSampleId :
MW-201-082025

Tgt Ion:105 Resp: 24818
Ion Ratio Lower Upper
105 100
120 26.5 13.1 39.1

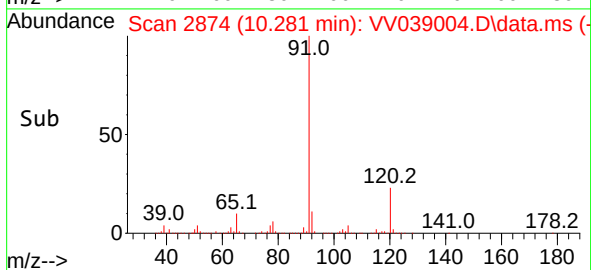
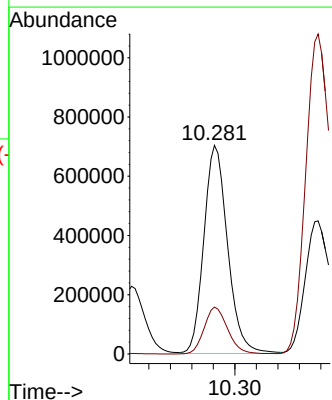
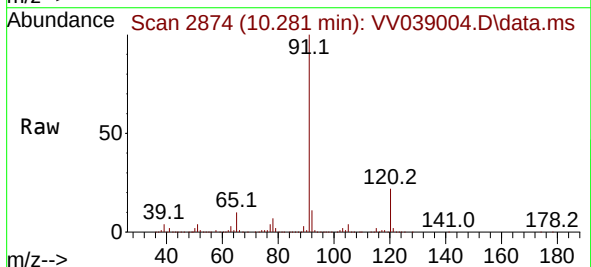
Manual Integrations
APPROVED

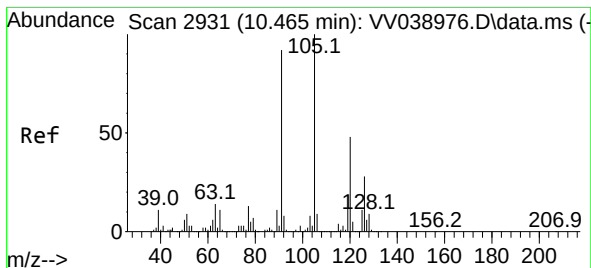
Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



#78
n-propylbenzene
Concen: 30.377 ug/l
RT: 10.281 min Scan# 2874
Delta R.T. 0.003 min
Lab File: VV039004.D
Acq: 21 Aug 2025 23:59

Tgt Ion: 91 Resp: 1077764
Ion Ratio Lower Upper
91 100
120 22.4 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 186.995 ug/l

RT: 10.468 min Scan# 2931

Delta R.T. 0.003 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

Instrument :

MSVOA_V

ClientSampleId :

MW-201-082025

Tgt Ion:105 Resp: 467631

Ion Ratio Lower Upper

105 100

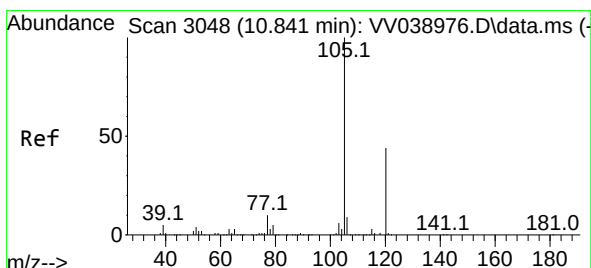
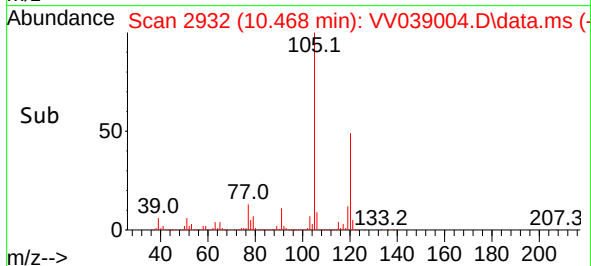
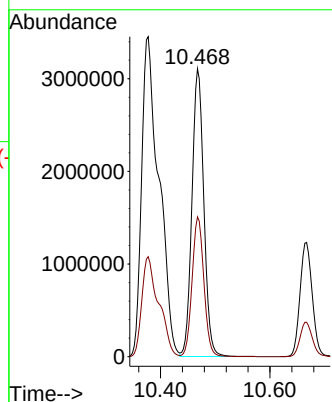
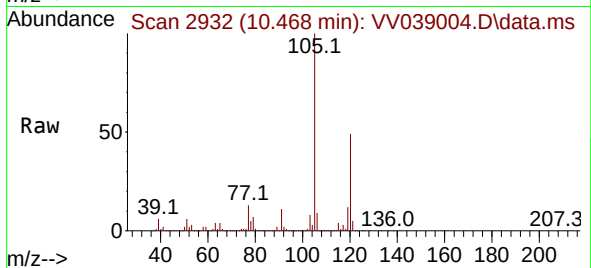
120 48.2 23.9 71.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025



#84

1,2,4-Trimethylbenzene

Concen: 662.178 ug/l

RT: 10.840 min Scan# 3048

Delta R.T. -0.000 min

Lab File: VV039004.D

Acq: 21 Aug 2025 23:59

Tgt Ion:105 Resp:15846996

Ion Ratio Lower Upper

105 100

120 53.1 22.8 68.3

