

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087322.D
 Acq On : 10 Jul 2025 13:48
 Operator : JC\MD
 Sample : Q2554-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250709104-01 VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/11/2025
 Supervised By :Mahesh Dadoda 07/14/2025

Quant Time: Jul 11 01:10:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	39044	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	187799	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	178818	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	85531	29.075	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.900%		
60) 4-Bromofluorobenzene	12.847	95	79207	28.705	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.667%		
63) Toluene-d8	10.565	98	224485	27.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	93.200%		
Target Compounds					Qvalue	
6) Chloroethane	3.165	64	1693	1.210	ug/l #	87
8) Diethyl Ether	3.983	74	18130	11.531	ug/l	85
23) tert-Butyl Alcohol	5.542	59	137232	210.873	ug/l #	100
34) Benzene	8.612	78	18871	2.035	ug/l #	73
45) 1,4-Dioxane	9.712	88	8006m	203.794	ug/l	
62) Toluene	10.629	91	8304	0.822	ug/l	95
64) Chlorobenzene	11.894	112	134181	20.828	ug/l	100
66) Ethyl Benzene	11.965	91	37027	3.350	ug/l	97
67) m/p-Xylenes	12.070	106	15310	3.614	ug/l	86
68) o-Xylene	12.400	106	11085	2.743	ug/l	94
70) Isopropylbenzene	12.694	105	13780	1.369	ug/l	94
74) n-propylbenzene	13.035	91	8697	0.707	ug/l	93
75) 2-Chlorotoluene	13.123	91	5573	0.750	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	14906	1.812	ug/l	92
84) 1,4-Dichlorobenzene	13.812	146	45370	9.588	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	3635	0.820	ug/l	95
91) Naphthalene	15.635	128	127556	12.922	ug/l	99

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

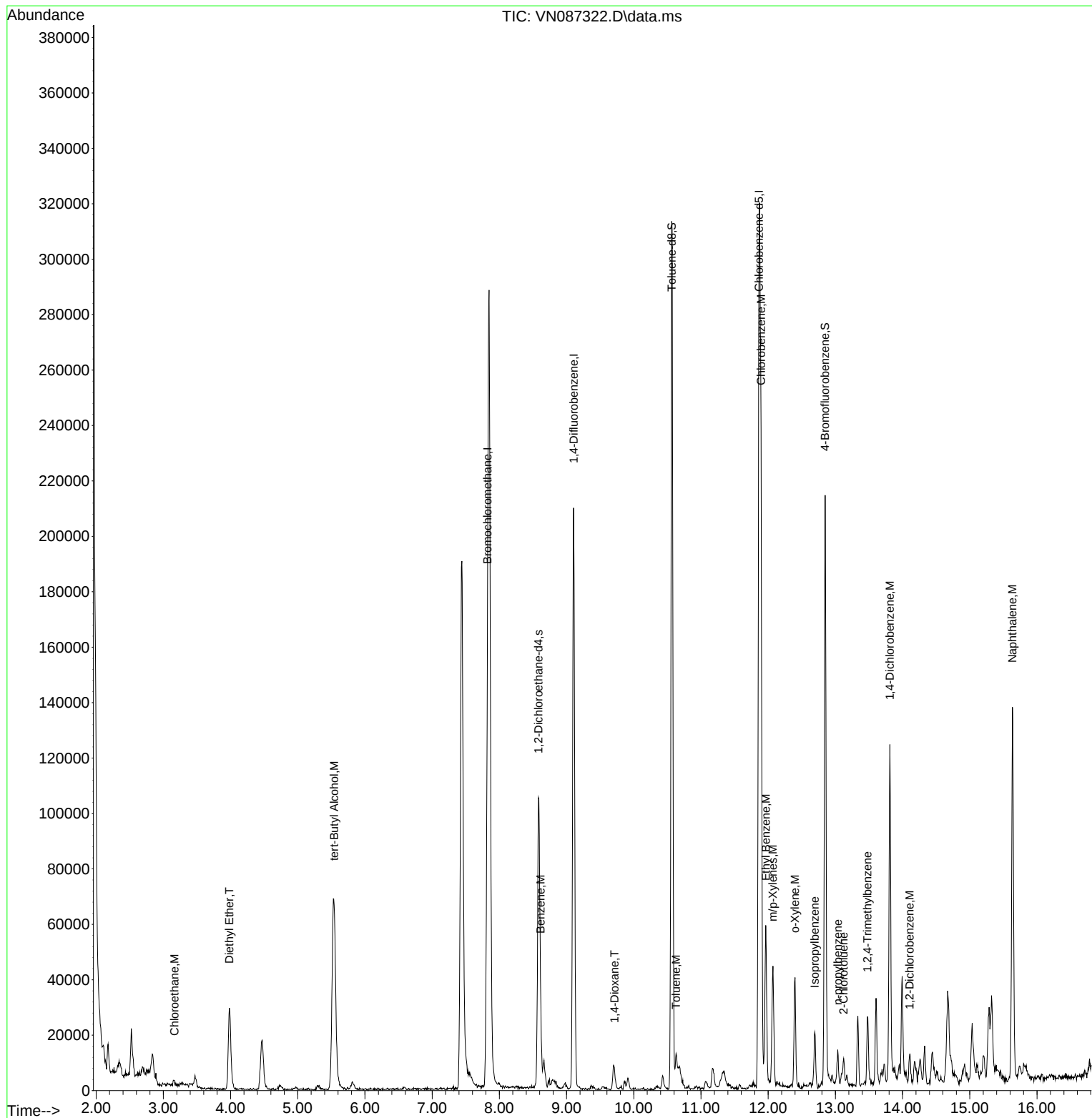
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087322.D
Acq On : 10 Jul 2025 13:48
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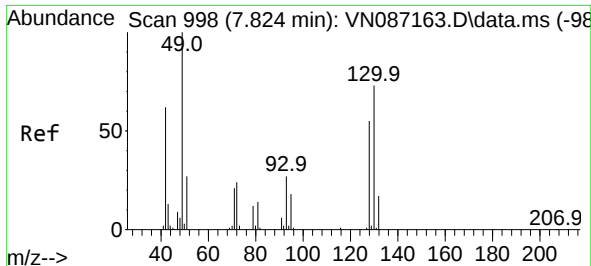
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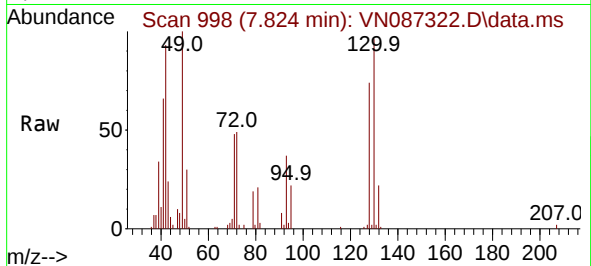
Quant Time: Jul 11 01:10:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

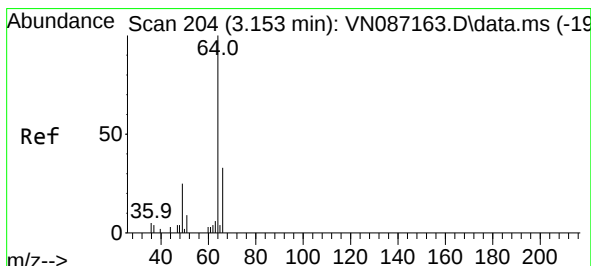
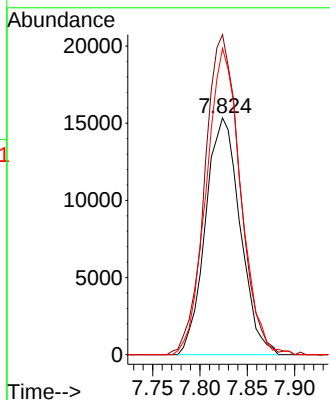
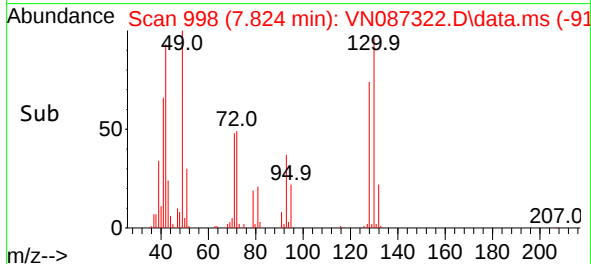
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



Tgt Ion:128 Resp: 3904
Ion Ratio Lower Upper
128 100
49 136.4 0.0 450.5
130 128.9 0.0 320.7

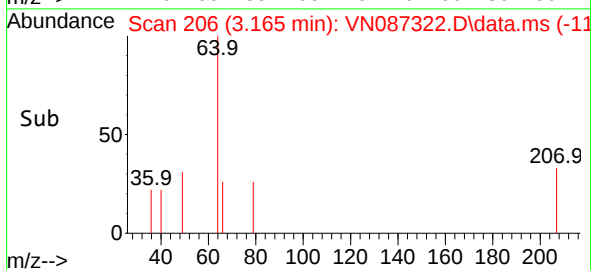
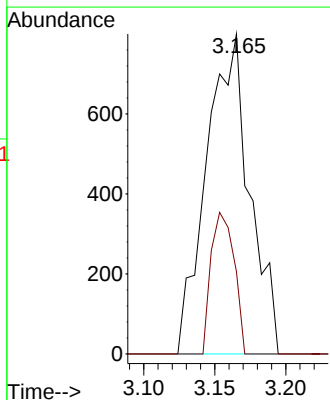
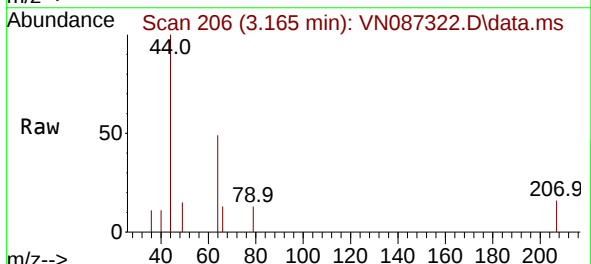
Manual Integrations
APPROVED

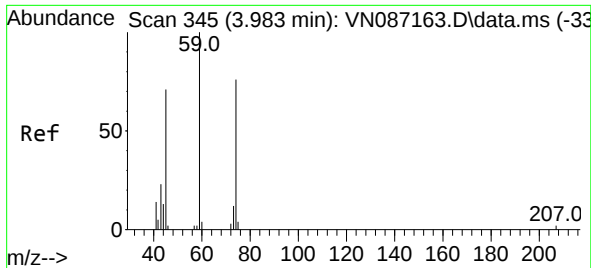
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#6
Chloroethane
Concen: 1.210 ug/l
RT: 3.165 min Scan# 206
Delta R.T. 0.012 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

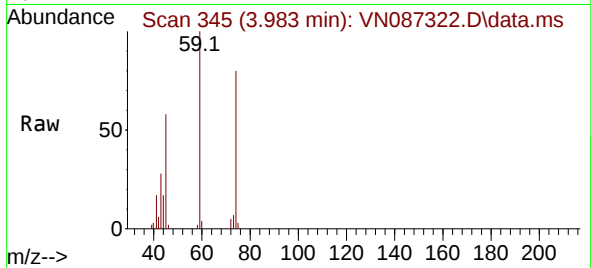
Tgt Ion: 64 Resp: 1693
Ion Ratio Lower Upper
64 100
66 25.8 26.4 39.6#





#8
Diethyl Ether
Concen: 11.531 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

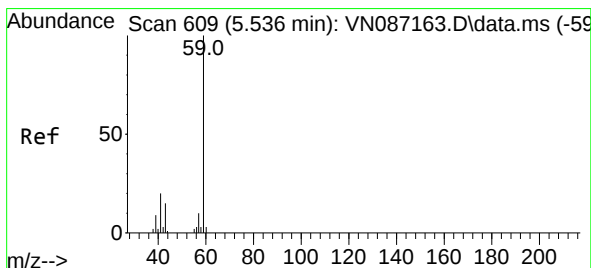
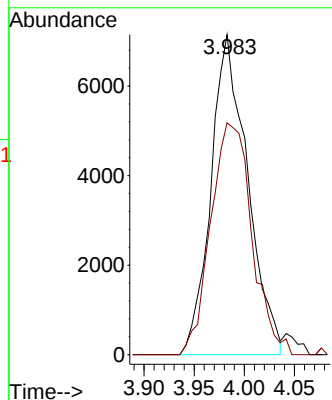
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



Tgt Ion: 74 Resp: 18130
Ion Ratio Lower Upper
74 100
45 80.6 19.0 171.0

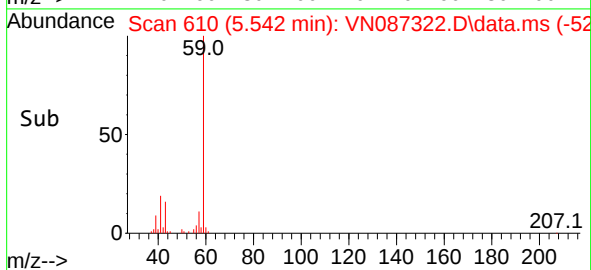
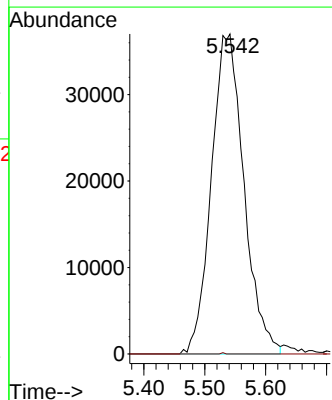
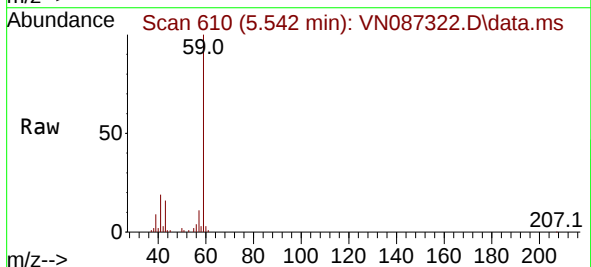
Manual Integrations
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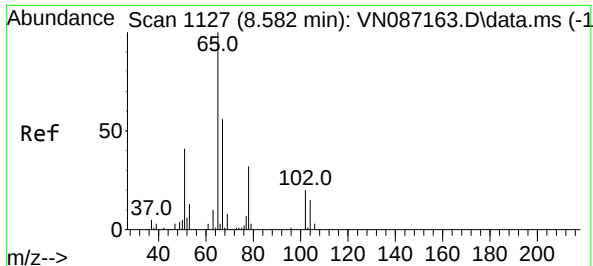
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#23
tert-Butyl Alcohol
Concen: 210.873 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

Tgt Ion: 59 Resp: 137232
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 29.075 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN087322.D

Acq: 10 Jul 2025 13:48

Instrument :

MSVOA_N

ClientSampleId :

250709104-01 VOA

Tgt Ion: 65 Resp: 8553

Ion Ratio Lower Upper

65 100

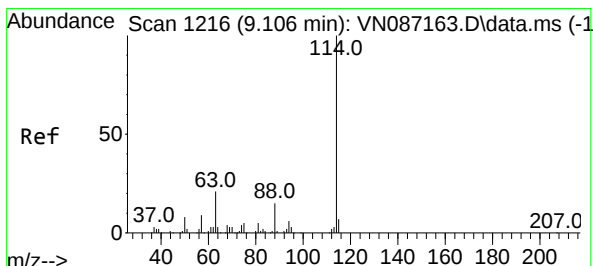
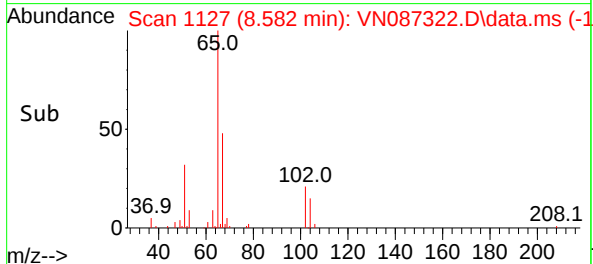
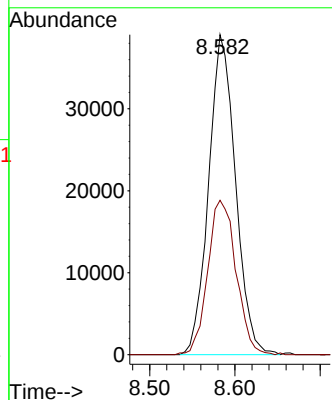
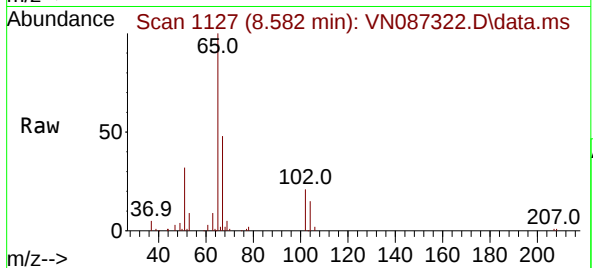
67 50.9 41.9 62.9

Manual Integrations

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087322.D

Acq: 10 Jul 2025 13:48

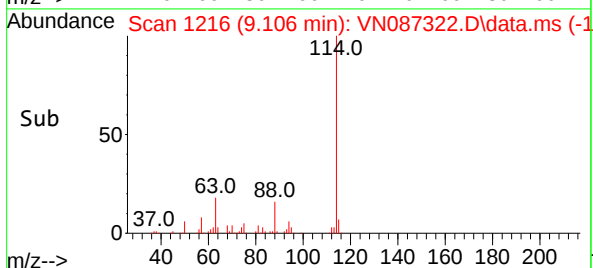
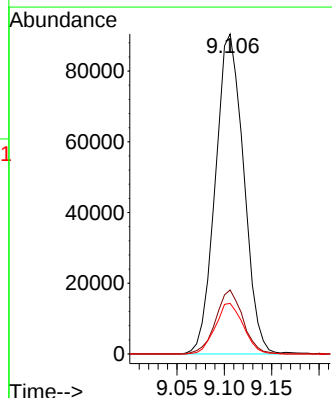
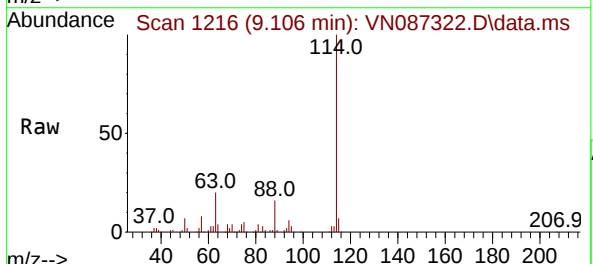
Tgt Ion:114 Resp: 187799

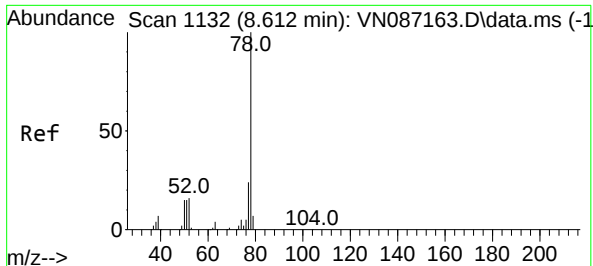
Ion Ratio Lower Upper

114 100

63 19.3 17.0 25.4

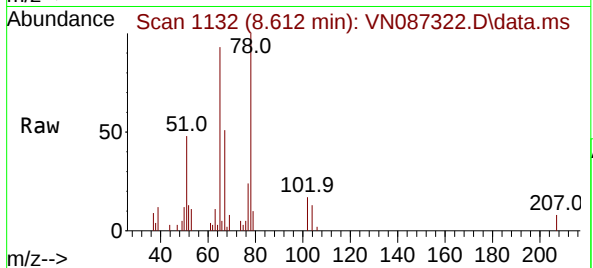
88 15.7 12.6 19.0





#34
Benzene
Concen: 2.035 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

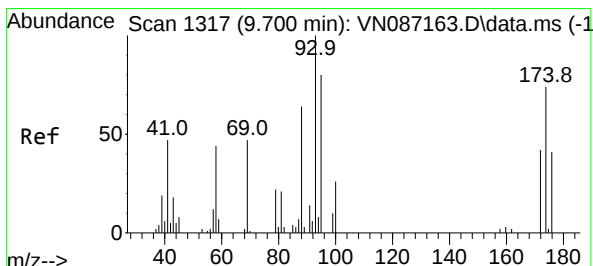
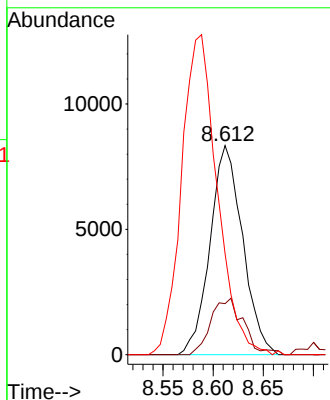
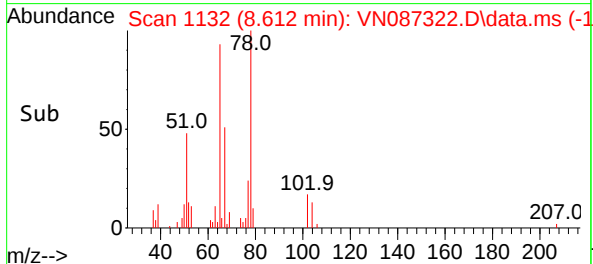
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250709104-01 VOA



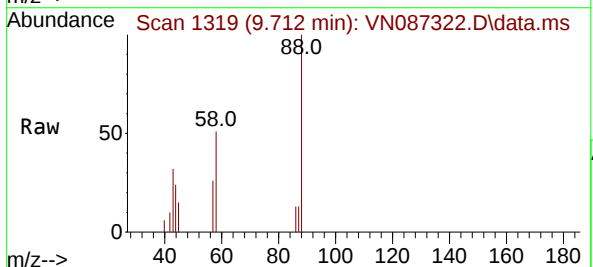
Tgt Ion: 78 Resp: 1887
Ion Ratio Lower Upper
78 100
77 24.4 19.5 29.3
51 46.4 14.8 22.2

Manual Integrations
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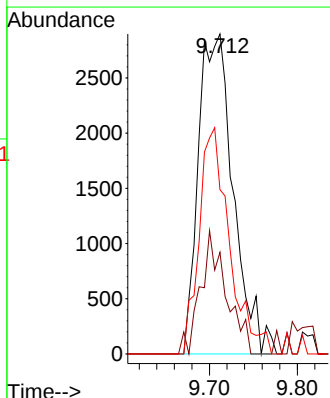
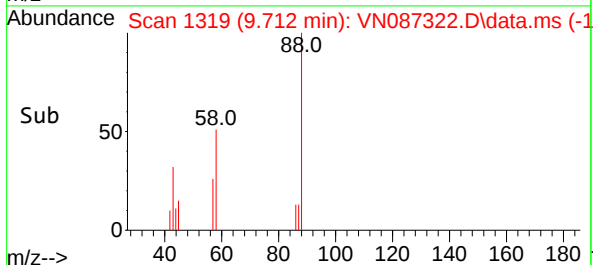
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

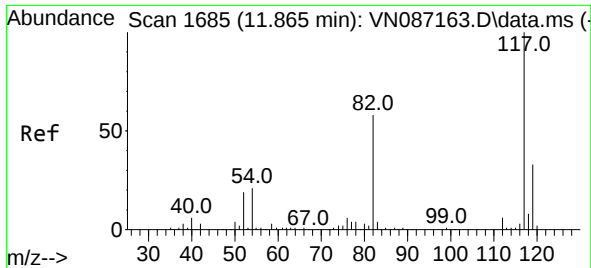


#45
1,4-Dioxane
Concen: 203.794 ug/l m
RT: 9.712 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48



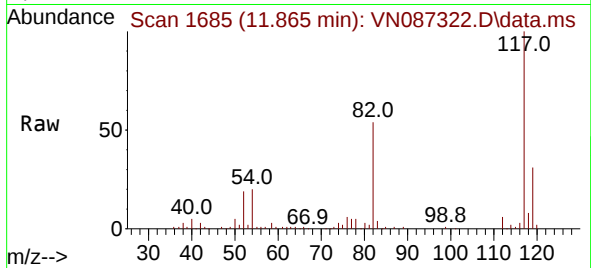
Tgt Ion: 88 Resp: 8006
Ion Ratio Lower Upper
88 100
43 23.4 21.3 31.9
58 55.7 61.7 92.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

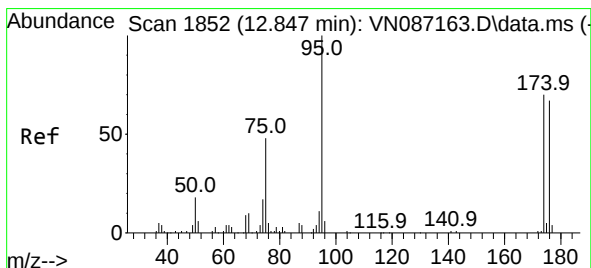
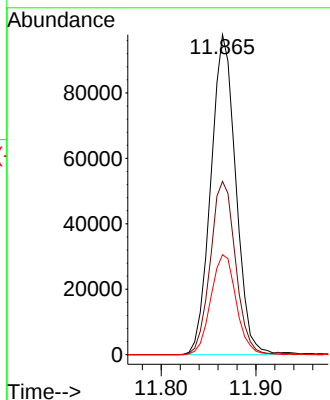
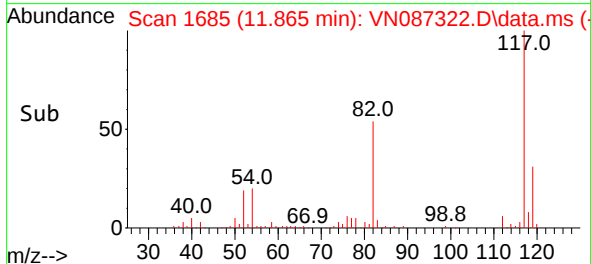
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



Tgt Ion:117 Resp: 178818
Ion Ratio Lower Upper
117 100
82 54.7 45.4 68.2
119 31.9 26.2 39.4

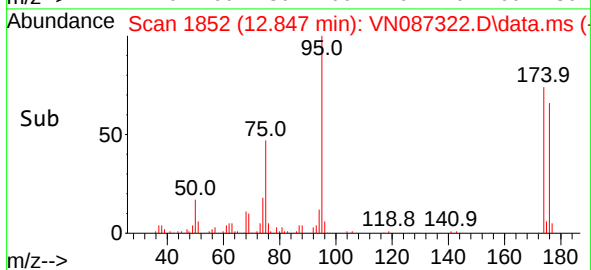
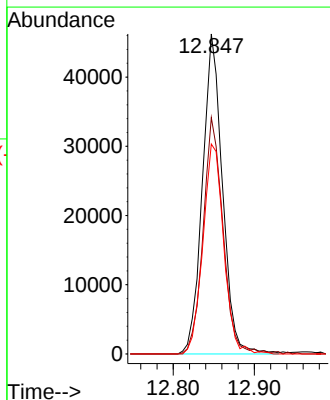
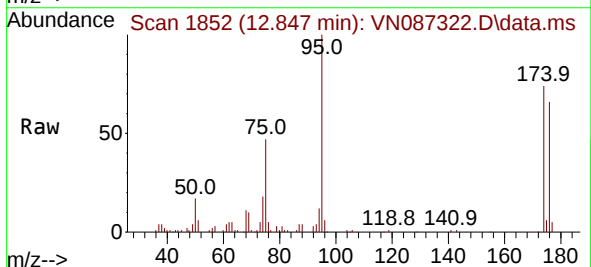
Manual Integrations
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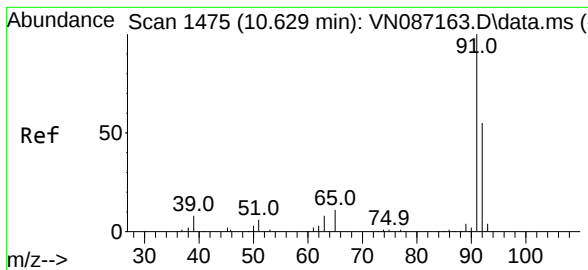
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#60
4-Bromofluorobenzene
Concen: 28.705 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

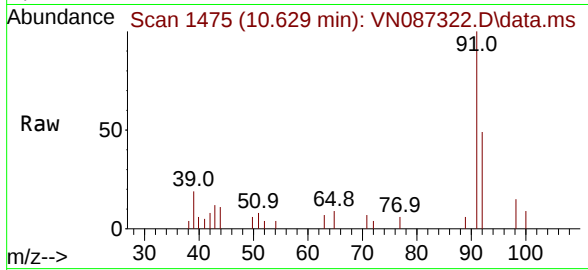
Tgt Ion: 95 Resp: 79207
Ion Ratio Lower Upper
95 100
174 72.1 54.5 81.7
176 66.8 51.9 77.9





#62
Toluene
Concen: 0.822 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

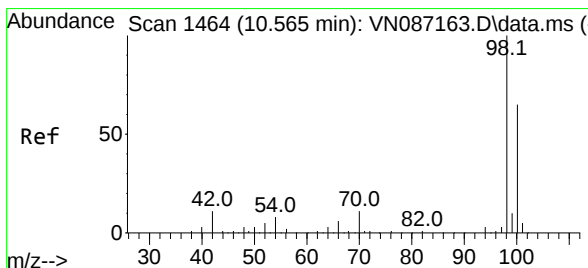
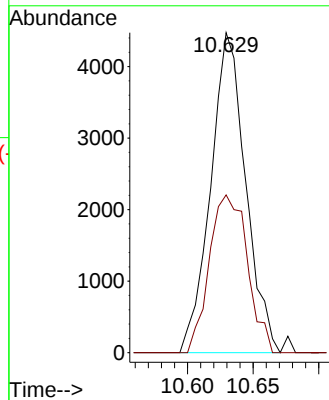
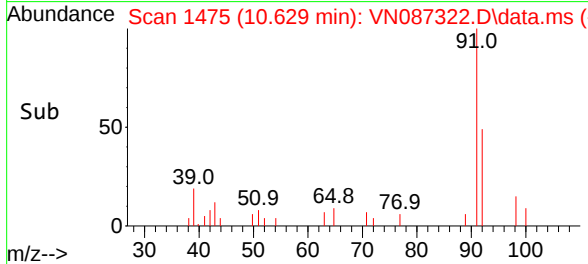
Instrument :
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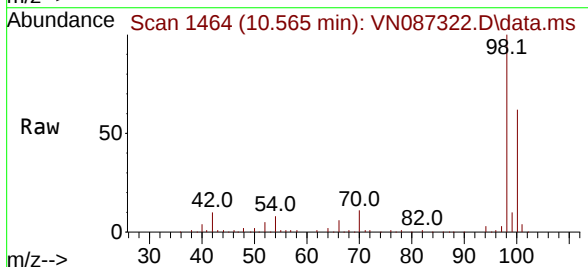
Tgt Ion: 91 Resp: 8304
Ion Ratio Lower Upper
91 100
92 53.5 45.8 68.8

Manual Integrations
APPROVED

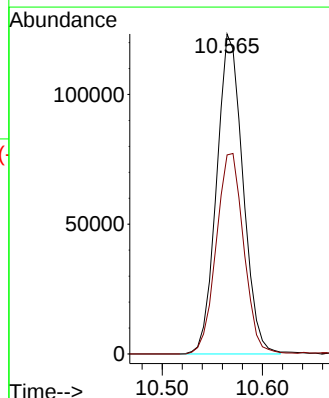
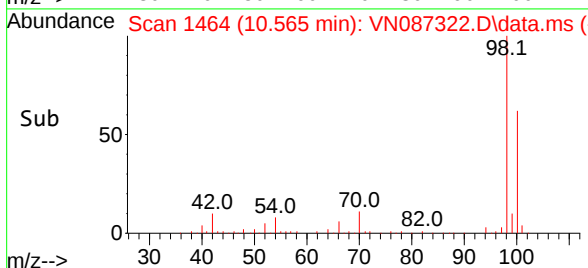
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

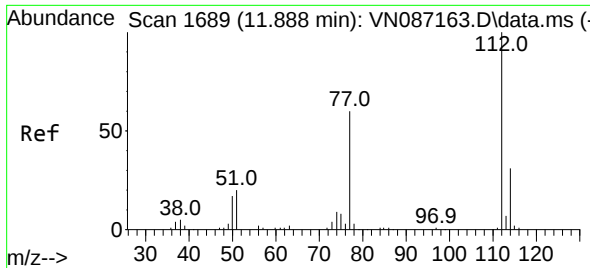


#63
Toluene-d8
Concen: 27.960 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48



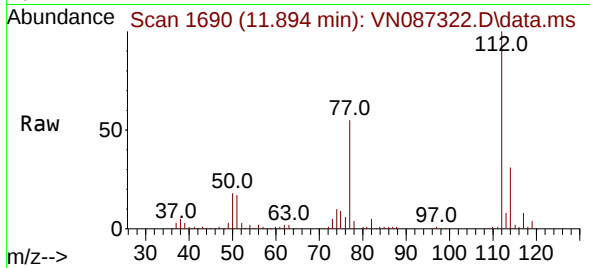
Tgt Ion: 98 Resp: 224485
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7





#64
Chlorobenzene
Concen: 20.828 ug/l
RT: 11.894 min Scan# 11894
Delta R.T. 0.006 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

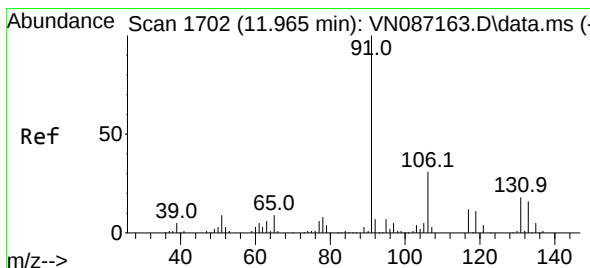
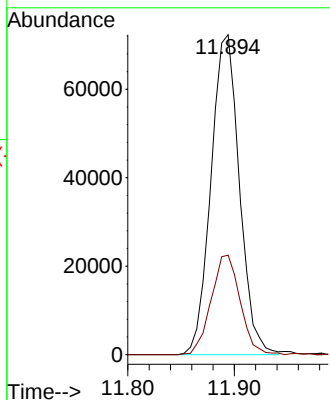
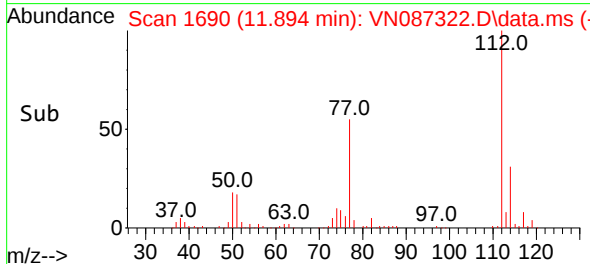
Instrument :
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250709104-01 VOA



Tgt Ion:112 Resp: 13418
Ion Ratio Lower Upper
112 100
114 31.1 25.0 37.4

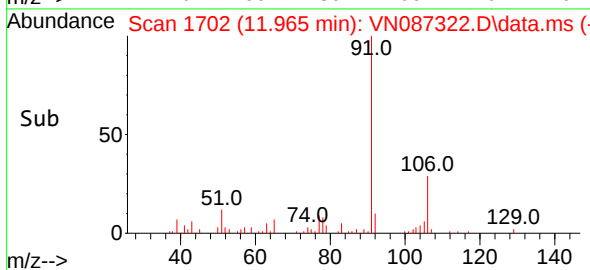
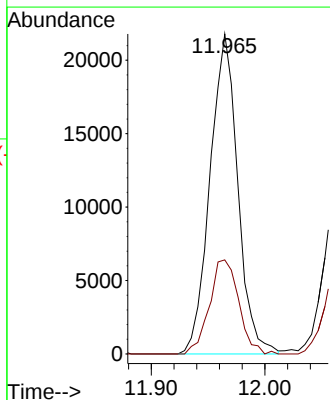
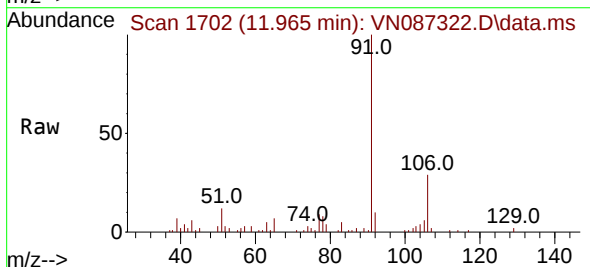
Manual Integrations
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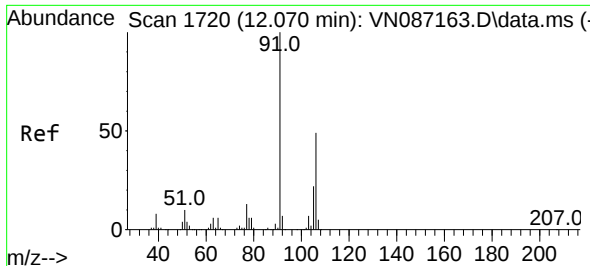
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#66
Ethyl Benzene
Concen: 3.350 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

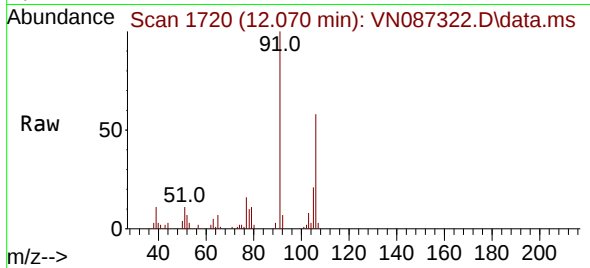
Tgt Ion: 91 Resp: 37027
Ion Ratio Lower Upper
91 100
106 29.4 24.8 37.2





#67
m/p-Xylenes
Concen: 3.614 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

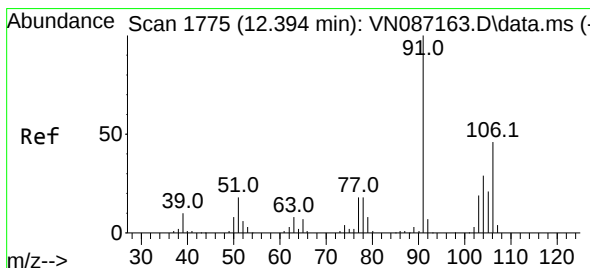
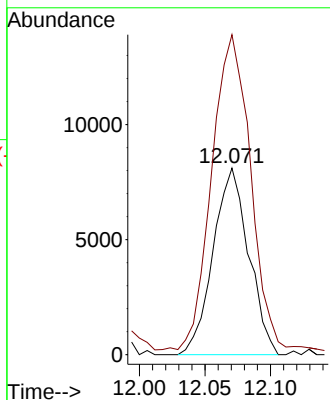
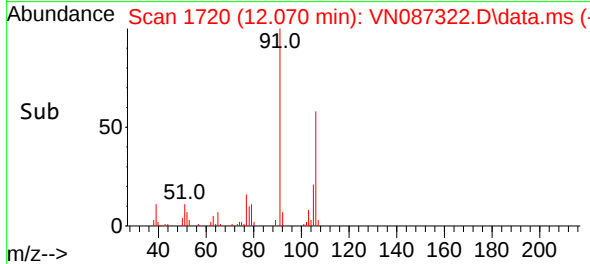
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



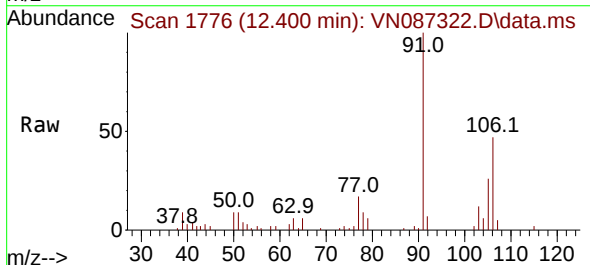
Tgt Ion:106 Resp: 15310
Ion Ratio Lower Upper
106 100
91 182.4 163.0 244.4

Manual Integrations
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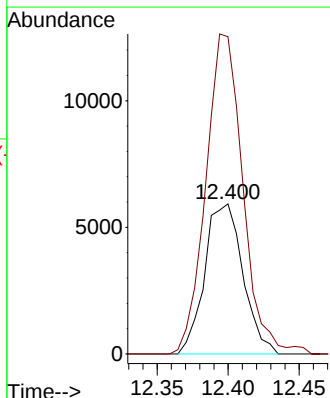
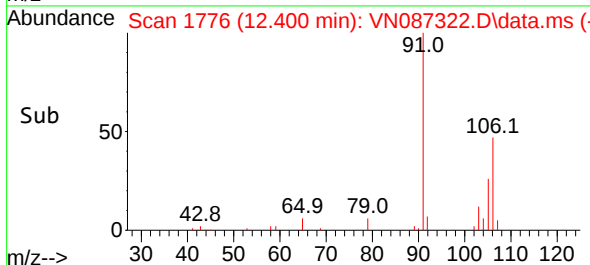
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

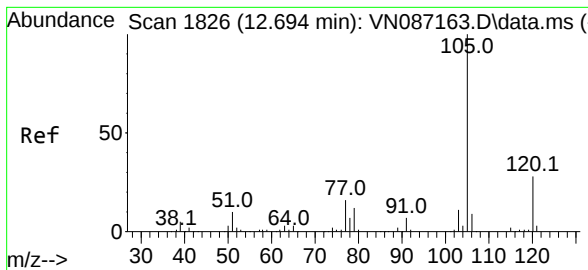


#68
o-Xylene
Concen: 2.743 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48



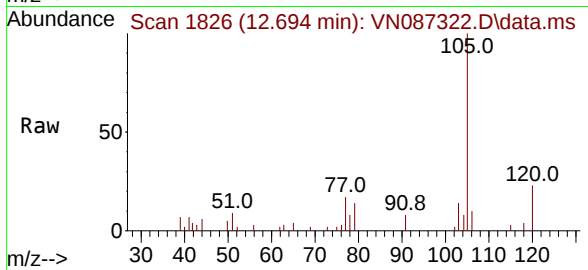
Tgt Ion:106 Resp: 11085
Ion Ratio Lower Upper
106 100
91 205.4 107.1 321.1





#70
Isopropylbenzene
Concen: 1.369 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

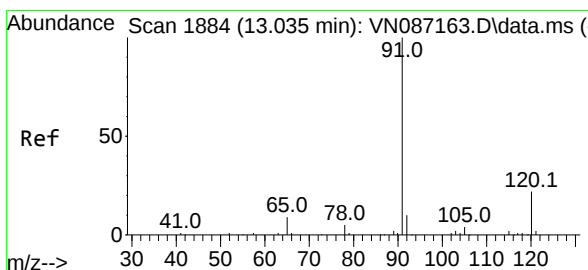
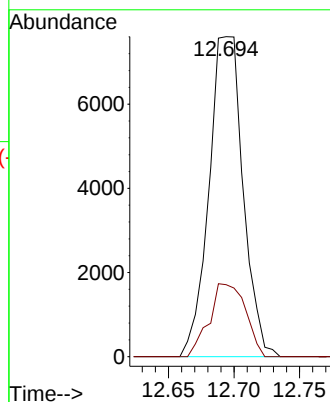
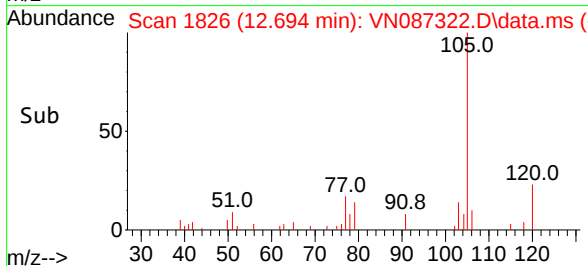
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



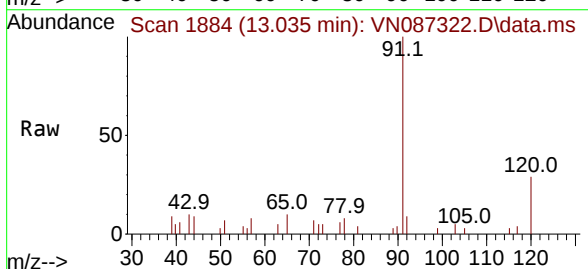
Tgt Ion:105 Resp: 13780
Ion Ratio Lower Upper
105 100
120 24.2 19.0 35.2

Manual Integrations
APPROVED

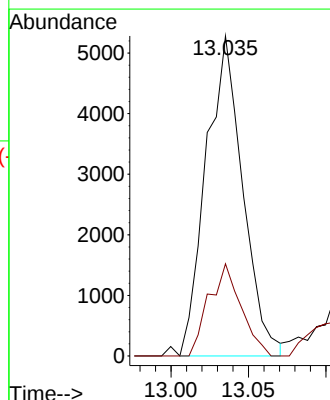
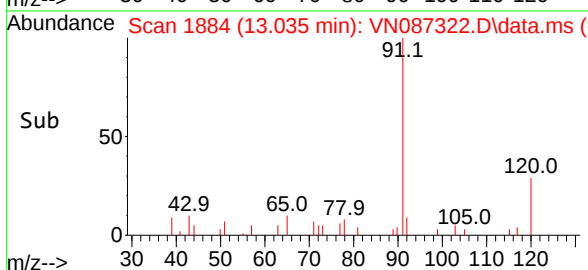
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

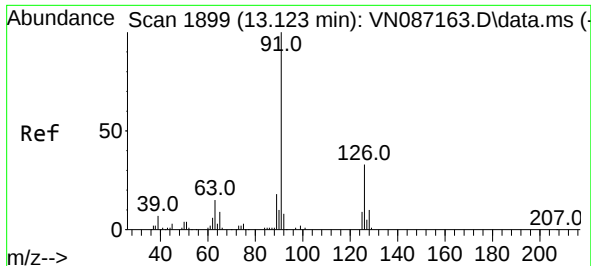


#74
n-propylbenzene
Concen: 0.707 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48



Tgt Ion: 91 Resp: 8697
Ion Ratio Lower Upper
91 100
120 25.2 0.0 43.6





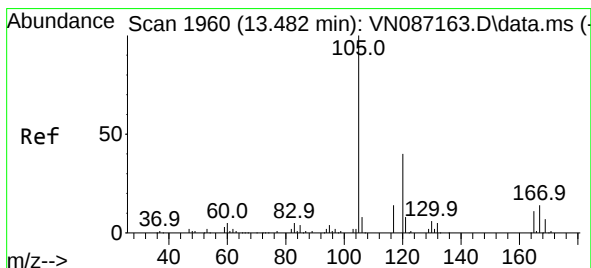
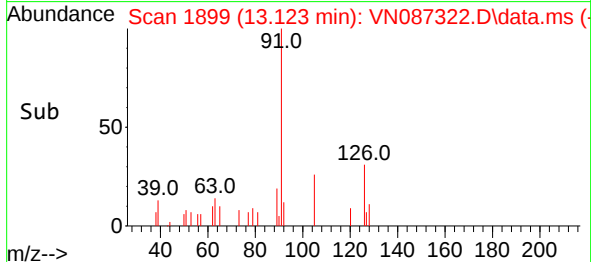
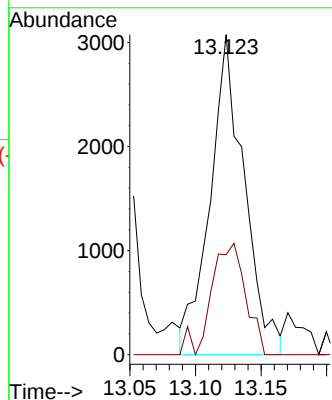
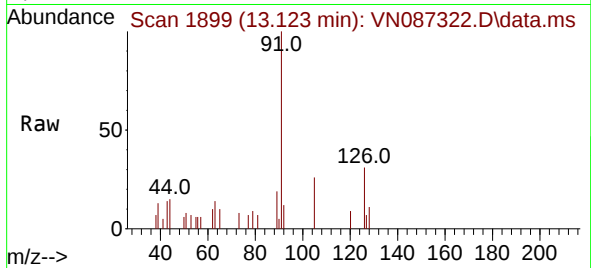
#75
2-Chlorotoluene
Concen: 0.750 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA

Tgt Ion: 91 Resp: 557
Ion Ratio Lower Upper
91 100
126 33.3 0.0 63.8

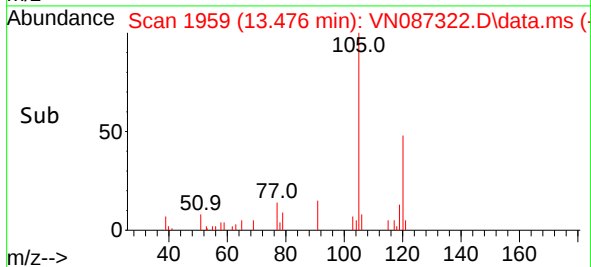
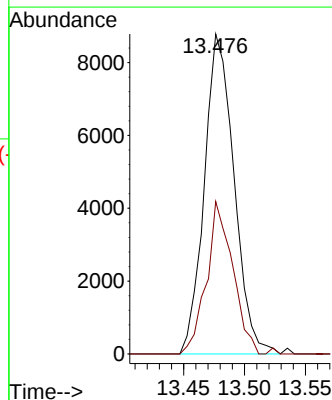
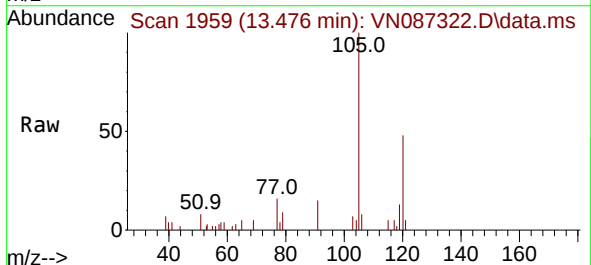
Manual Integrations
APPROVED

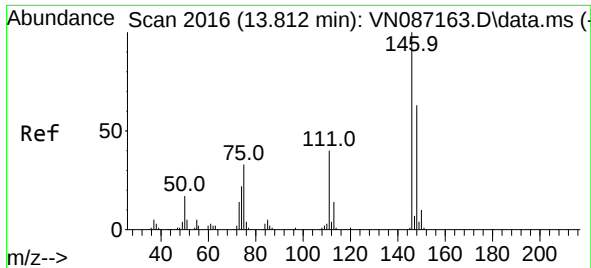
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#80
1,2,4-Trimethylbenzene
Concen: 1.812 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

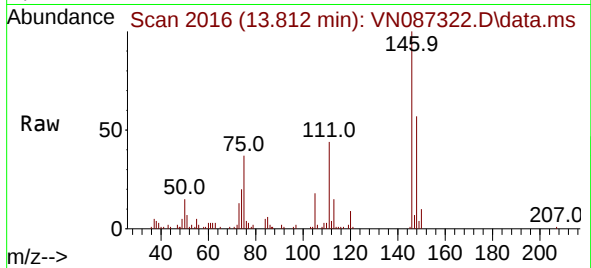
Tgt Ion:105 Resp: 14906
Ion Ratio Lower Upper
105 100
120 41.9 0.0 94.0





#84
1,4-Dichlorobenzene
Concen: 9.588 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

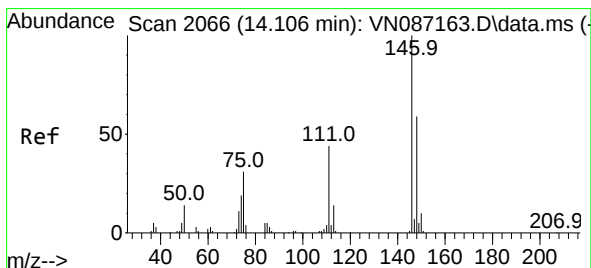
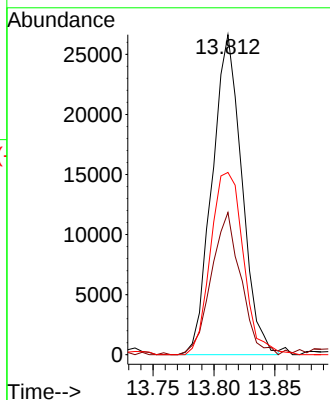
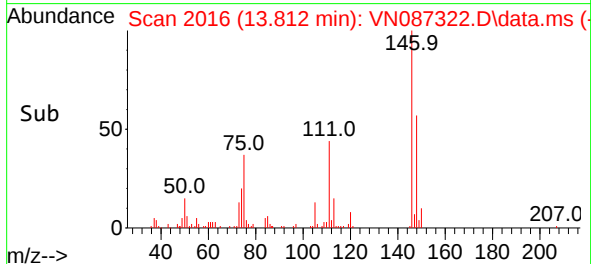
Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA



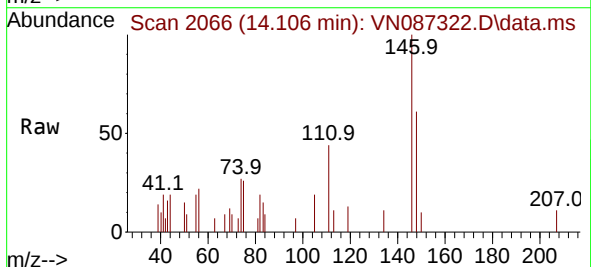
Tgt Ion:146 Resp: 45370
Ion Ratio Lower Upper
146 100
111 44.0 20.1 60.2
148 62.7 31.4 94.2

Manual Integrations
APPROVED

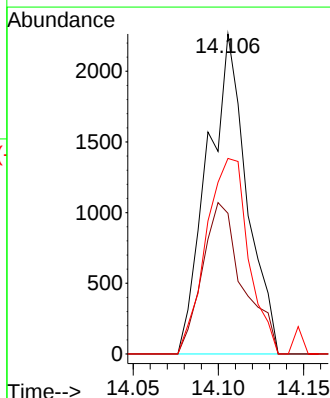
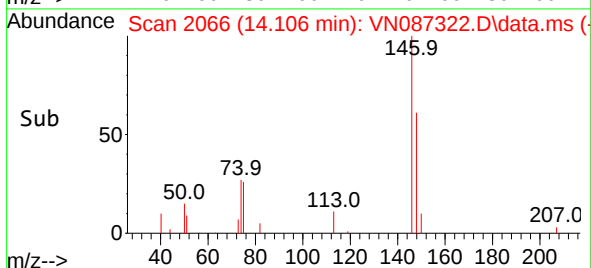
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

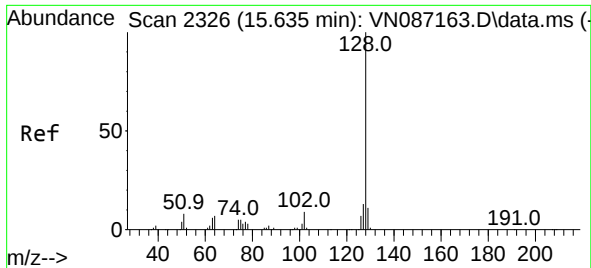


#87
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48



Tgt Ion:146 Resp: 3635
Ion Ratio Lower Upper
146 100
111 48.9 22.1 66.1
148 65.9 31.6 95.0





#91
Naphthalene
Concen: 12.922 ug/l
RT: 15.635 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087322.D
Acq: 10 Jul 2025 13:48

Instrument :
MSVOA_N
ClientSampleId :
250709104-01 VOA

Tgt Ion:128 Resp: 127550
Ion Ratio Lower Upper
128 100
127 13.8 10.6 15.8
129 11.2 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

