

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088327.D
 Acq On : 20 Nov 2025 13:25
 Operator : JC\MD
 Sample : Q3689-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 251119071-01 VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/21/2025
 Supervised By :Semsettin Yesilyurt 11/21/2025

Quant Time: Nov 21 03:01:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	27555	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.076	114	217180	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	175833	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	83680m	33.246	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.833%#			
60) 4-Bromofluorobenzene	12.829	95	81767	27.509	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.700%			
63) Toluene-d8	10.541	98	259939	31.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.100%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	6820	6.163	ug/l	84
15) Acetone	4.459	58	73163m	225.238	ug/l	
25) Chloroform	7.947	83	6162m	1.754	ug/l	
34) Benzene	8.582	78	52873	4.881	ug/l #	93
58) 4-Methyl-2-Pentanone	10.435	43	32118m	8.076	ug/l	
62) Toluene	10.606	91	259813	25.749	ug/l	98
64) Chlorobenzene	11.870	112	15603	2.497	ug/l	95
66) Ethyl Benzene	11.941	91	145041	13.042	ug/l	99
67) m/p-Xylenes	12.047	106	52869	12.712	ug/l	100
68) o-Xylene	12.376	106	29110	7.420	ug/l	99
70) Isopropylbenzene	12.670	105	19650	1.890	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	11600	1.329	ug/l	90
80) 1,2,4-Trimethylbenzene	13.459	105	39646	4.568	ug/l	94
82) p-Isopropyltoluene	13.706	119	96738	10.742	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	17631	3.817	ug/l	97
91) Naphthalene	15.611	128	295534	33.813	ug/l	99

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

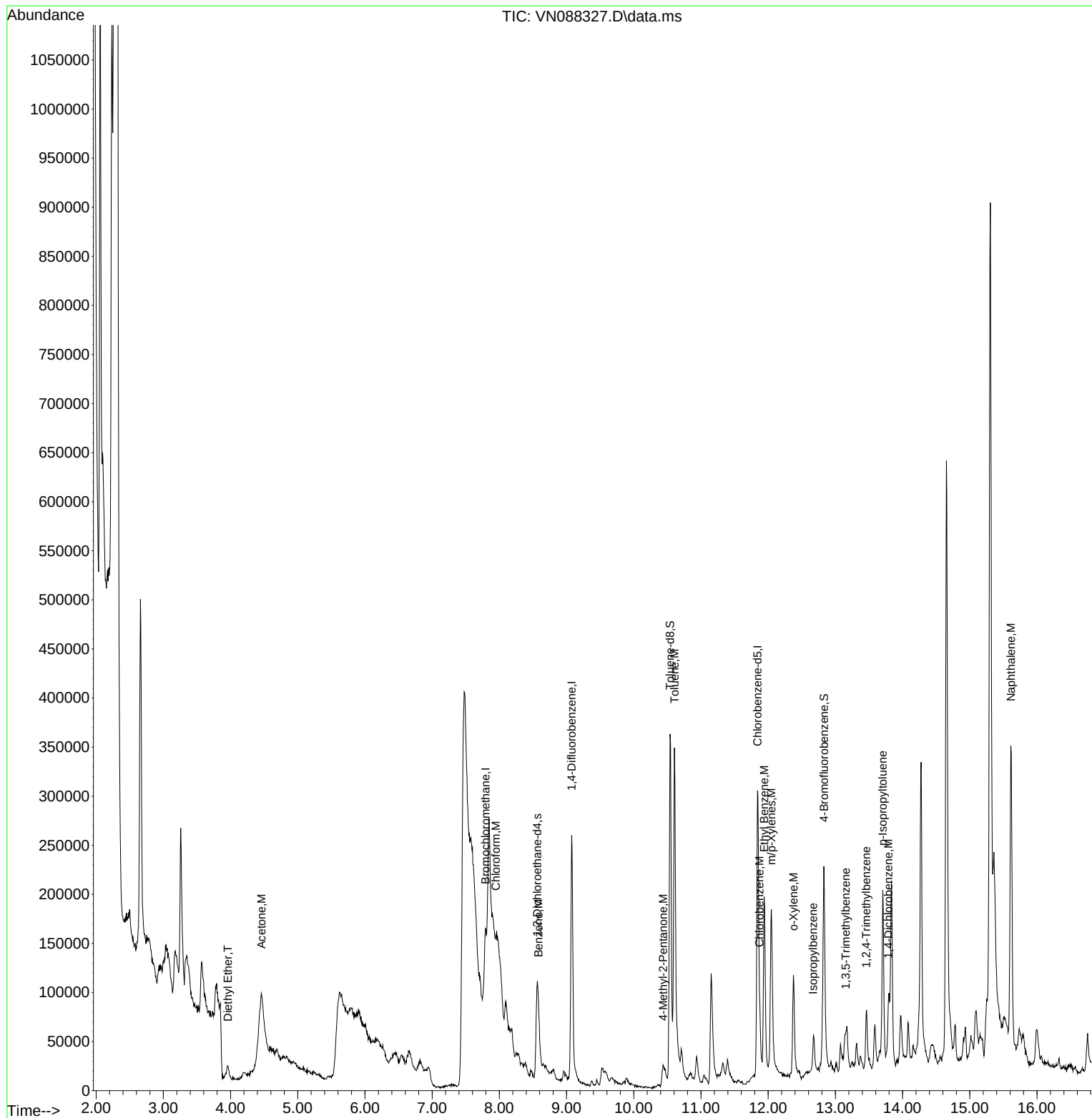
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
Data File : VN088327.D
Acq On : 20 Nov 2025 13:25
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Sample : Q3689-01
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ALS Vial : 13 Sample Multiplier: 1

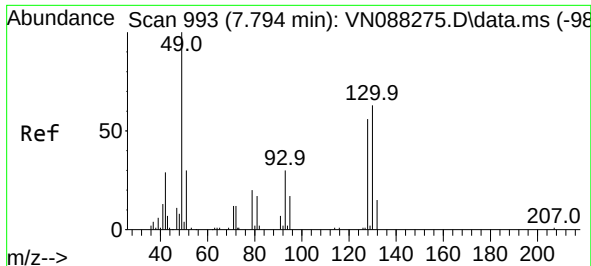
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA

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Quant Time: Nov 21 03:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 14 00:49:21 2025
Response via : Initial Calibration





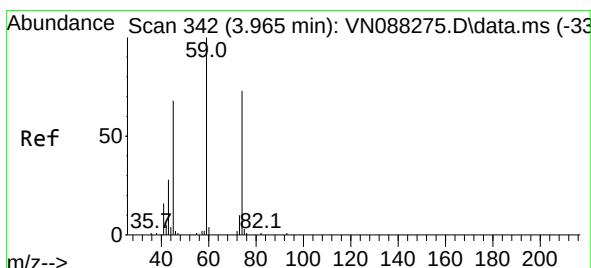
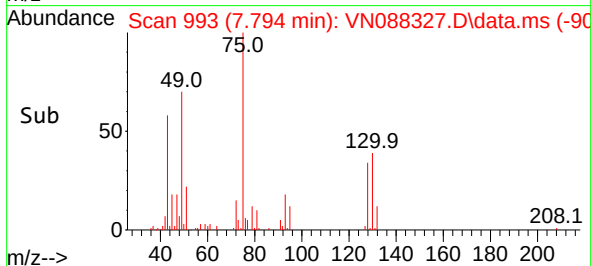
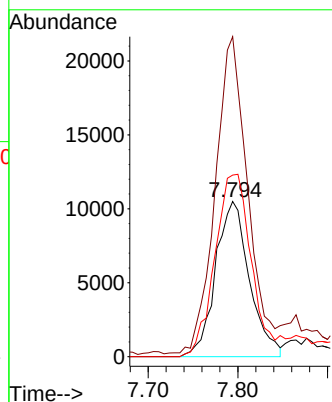
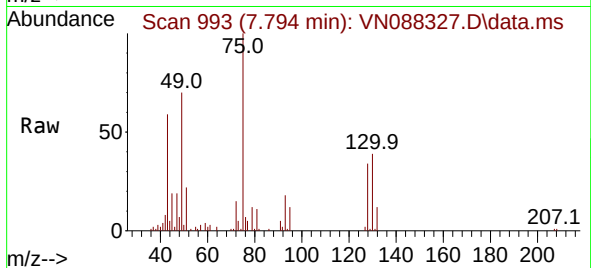
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA

Tgt Ion:128 Resp: 2755
Ion Ratio Lower Upper
128 100
49 192.5 0.0 501.2
130 125.1 0.0 320.2

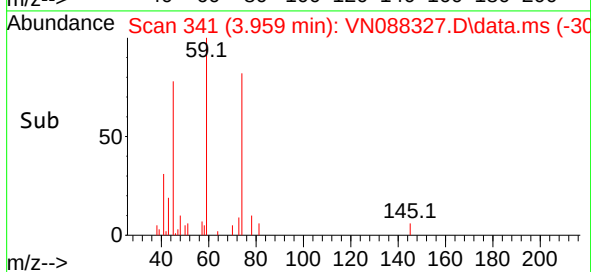
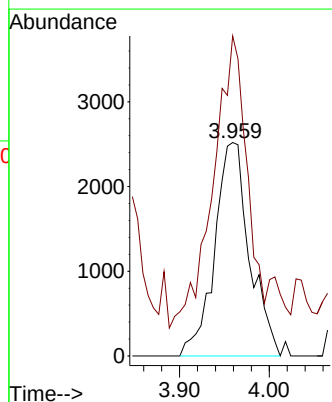
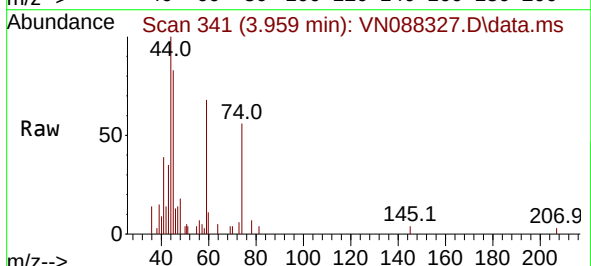
Manual Integrations
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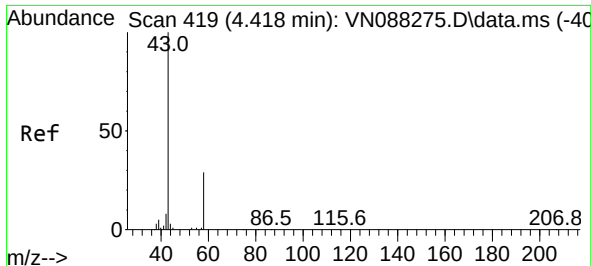
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#8
Diethyl Ether
Concen: 6.163 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

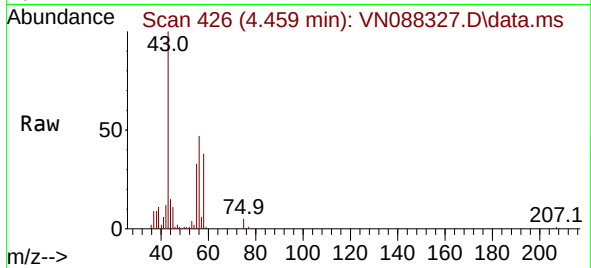
Tgt Ion: 74 Resp: 6820
Ion Ratio Lower Upper
74 100
45 121.1 20.9 187.7





#15
Acetone
Concen: 225.238 ug/l m
RT: 4.459 min Scan# 419
Delta R.T. 0.041 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

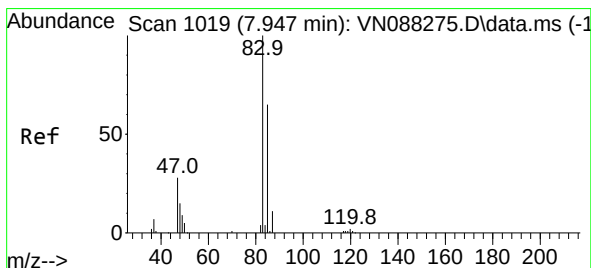
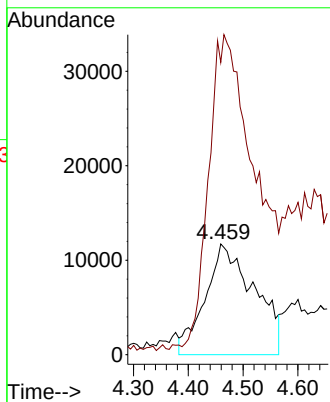
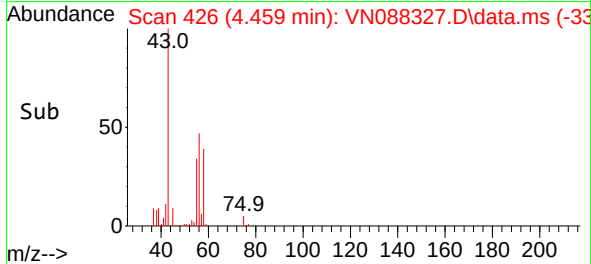
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion: 58 Resp: 7316
Ion Ratio Lower Upper
58 100
43 263.8 273.9 410.9

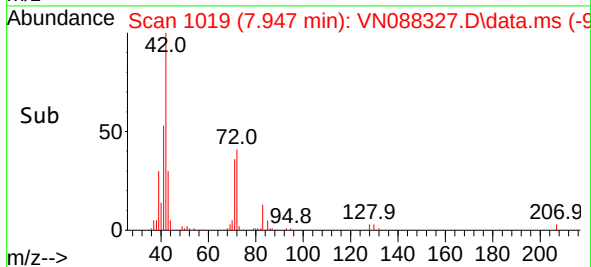
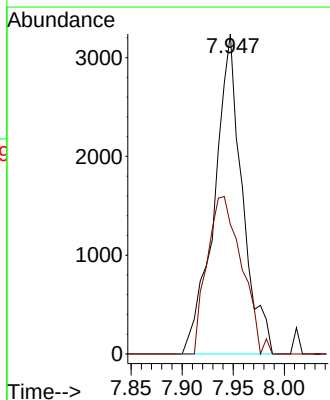
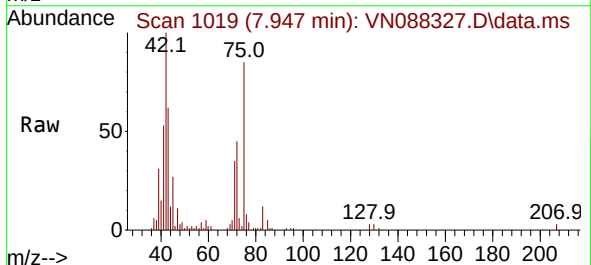
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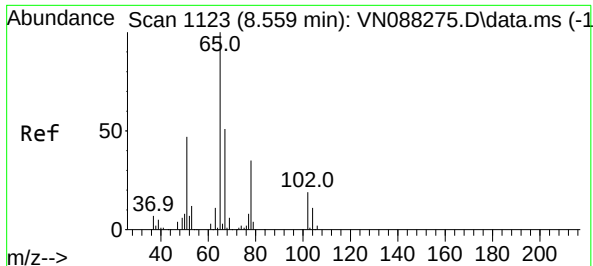
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#25
Chloroform
Concen: 1.754 ug/l m
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Tgt Ion: 83 Resp: 6162
Ion Ratio Lower Upper
83 100
85 40.5 52.2 78.4





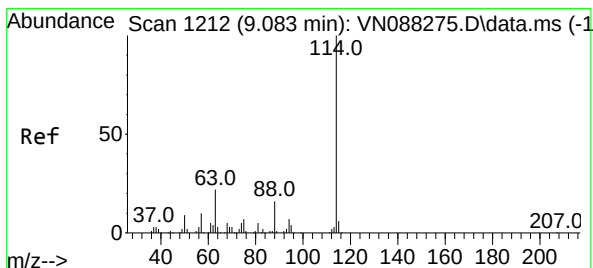
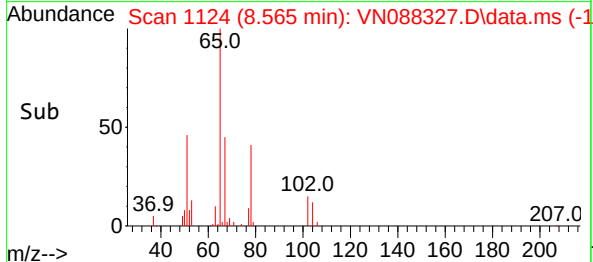
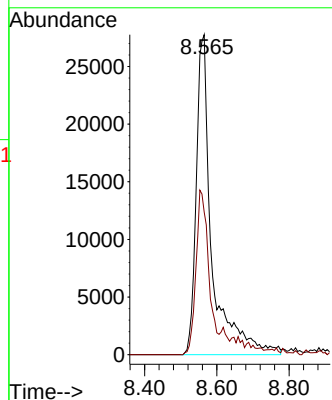
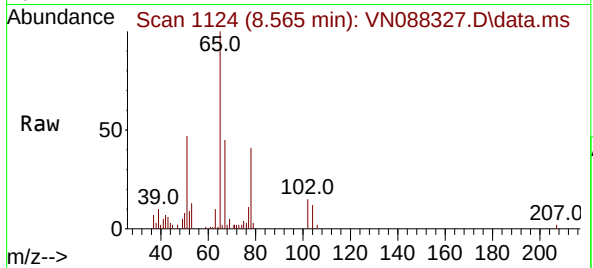
#27
1,2-Dichloroethane-d4
Concen: 33.246 ug/l m
RT: 8.565 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA

Tgt Ion: 65 Resp: 83680
Ion Ratio Lower Upper
65 100
67 41.8 40.2 60.2

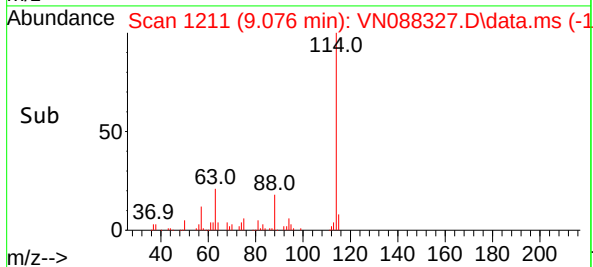
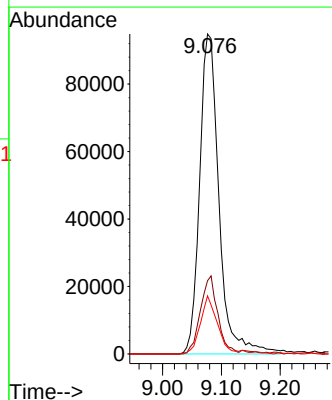
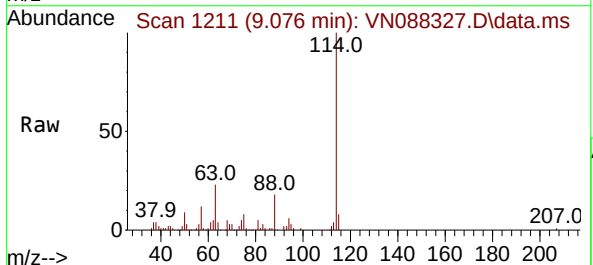
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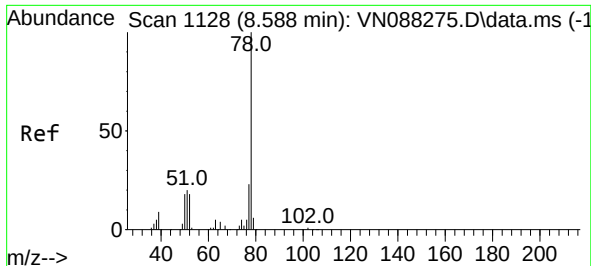
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.076 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

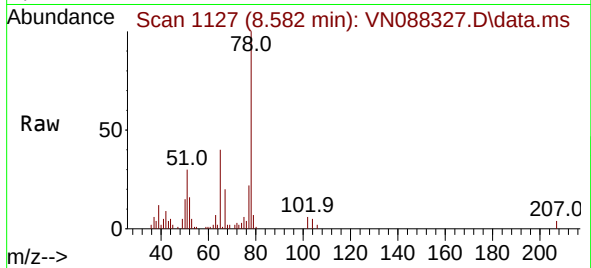
Tgt Ion:114 Resp: 217180
Ion Ratio Lower Upper
114 100
63 21.9 18.9 28.3
88 15.8 12.8 19.2





#34
Benzene
Concen: 4.881 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

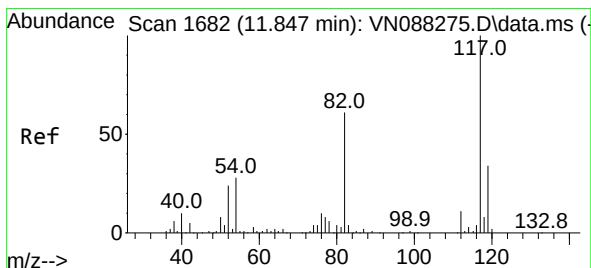
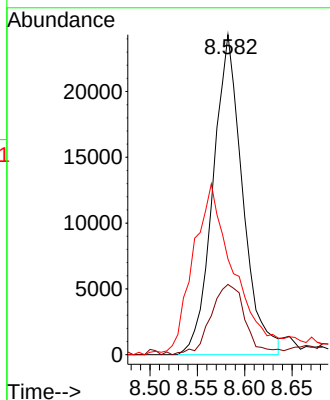
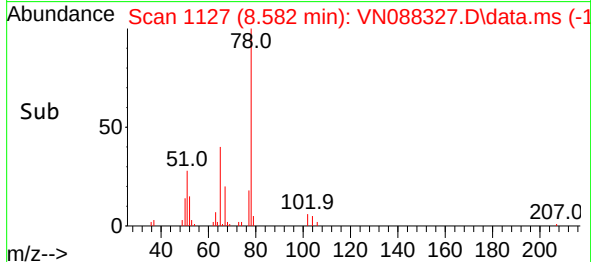
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion: 78 Resp: 5287
Ion Ratio Lower Upper
78 100
77 21.3 18.6 27.8
51 24.7 15.8 23.8

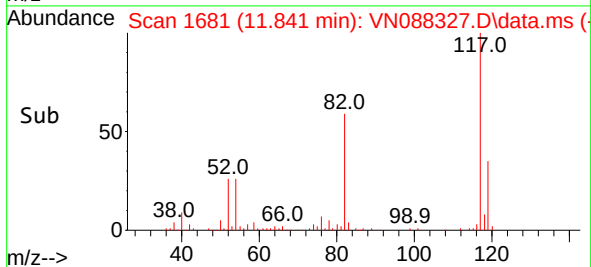
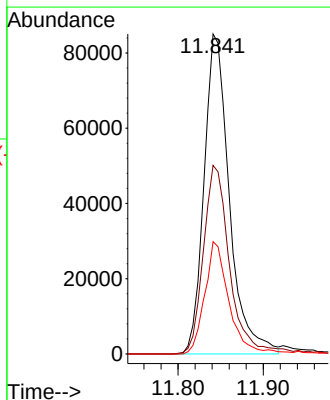
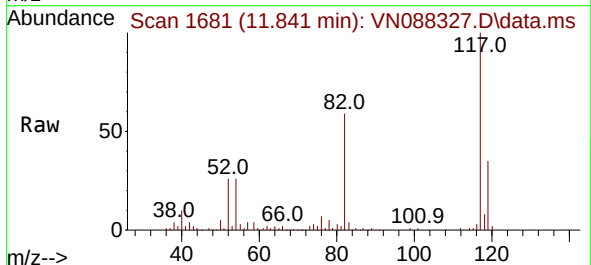
Manual Integrations
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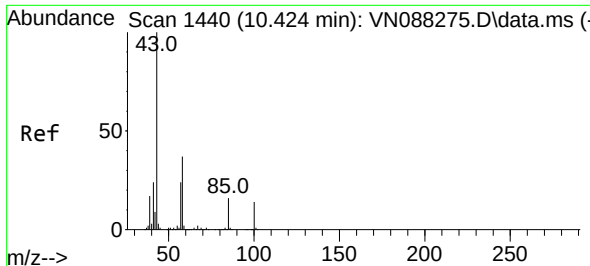
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

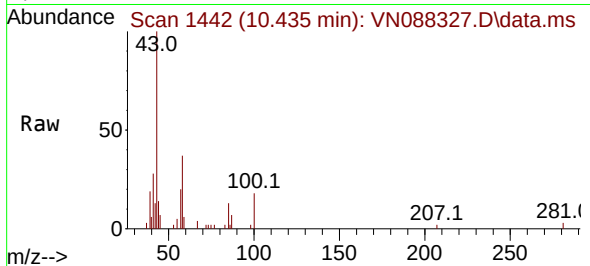
Tgt Ion:117 Resp: 175833
Ion Ratio Lower Upper
117 100
82 60.9 49.3 73.9
119 32.7 26.4 39.6





#58
4-Methyl-2-Pentanone
Concen: 8.076 ug/l m
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

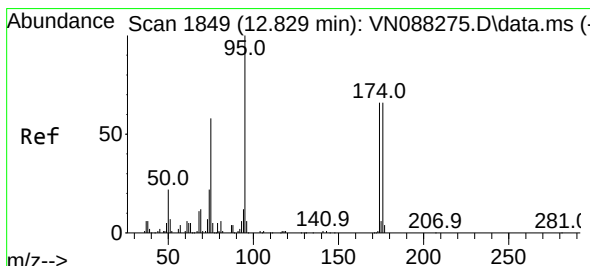
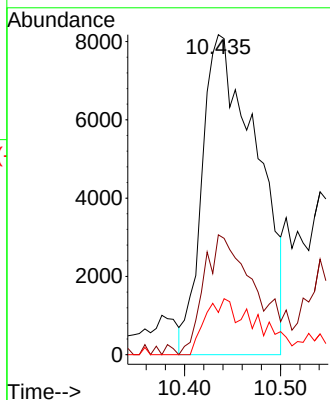
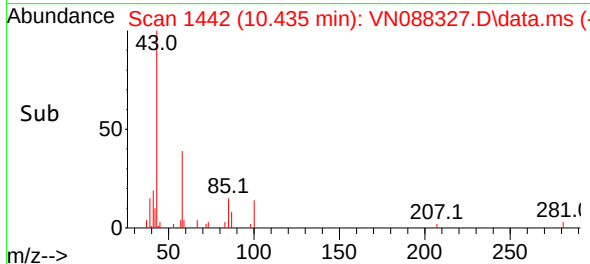
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion: 43 Resp: 32118
Ion Ratio Lower Upper
43 100
58 30.6 29.2 43.8
85 3.2 12.6 19.0

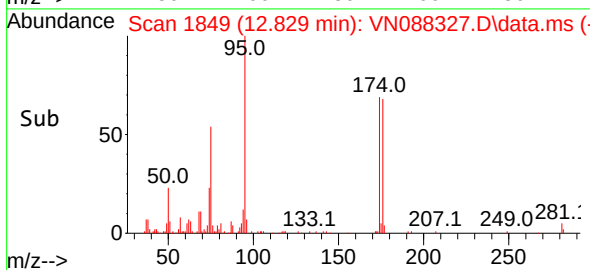
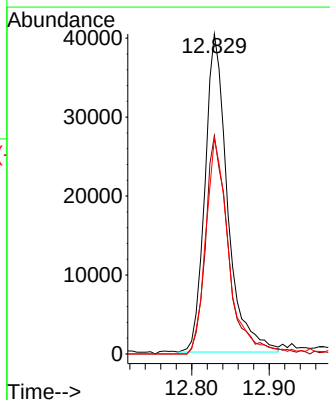
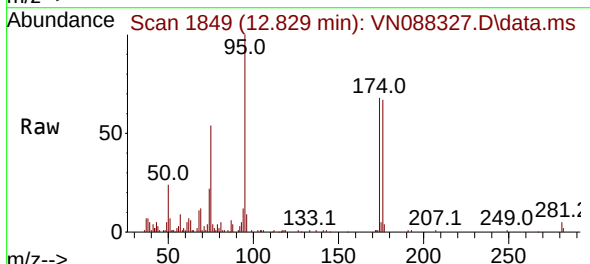
Manual Integrations
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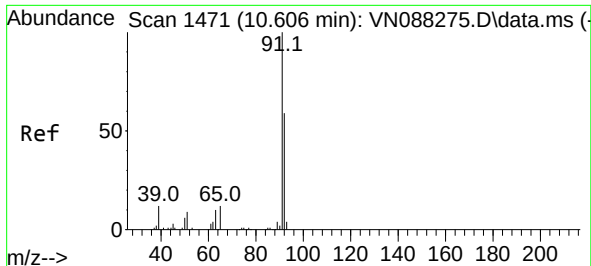
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#60
4-Bromofluorobenzene
Concen: 27.509 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

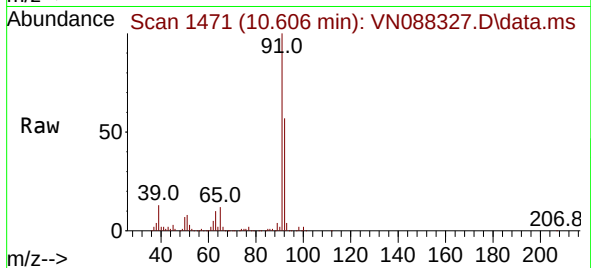
Tgt Ion: 95 Resp: 81767
Ion Ratio Lower Upper
95 100
174 66.5 54.5 81.7
176 68.6 53.8 80.6





#62
Toluene
Concen: 25.749 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

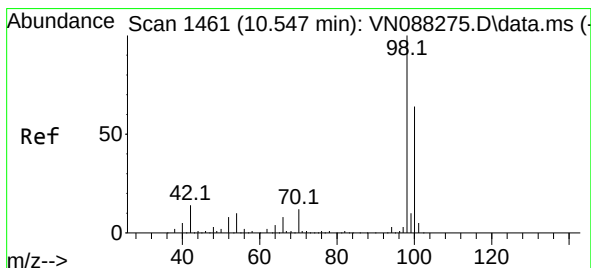
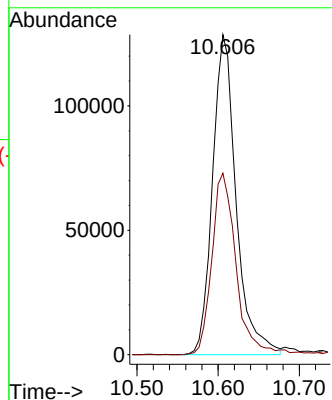
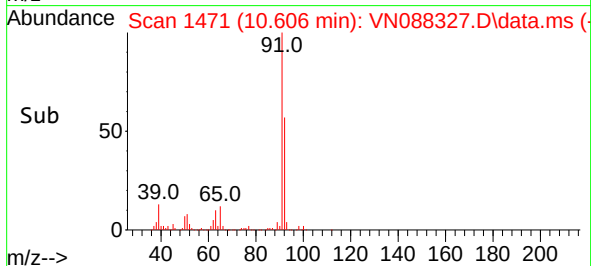
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion: 91 Resp: 25981
Ion Ratio Lower Upper
91 100
92 57.2 46.7 70.1

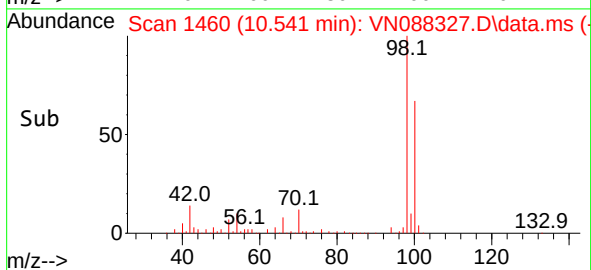
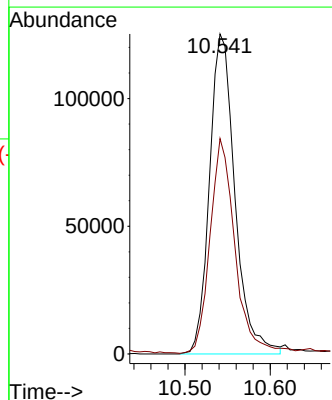
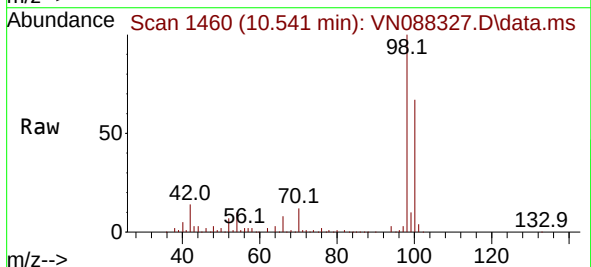
Manual Integrations
APPROVED

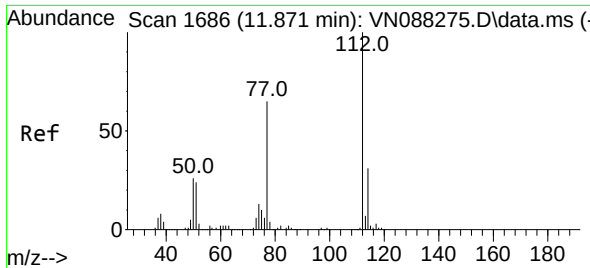
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#63
Toluene-d8
Concen: 31.226 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Tgt Ion: 98 Resp: 259939
Ion Ratio Lower Upper
98 100
100 64.9 51.6 77.4





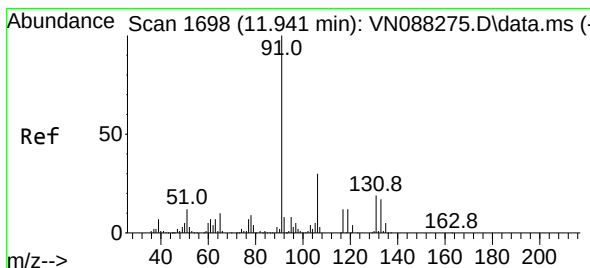
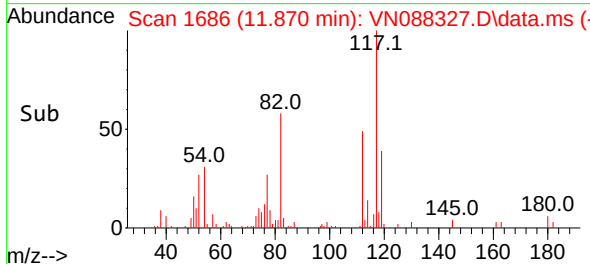
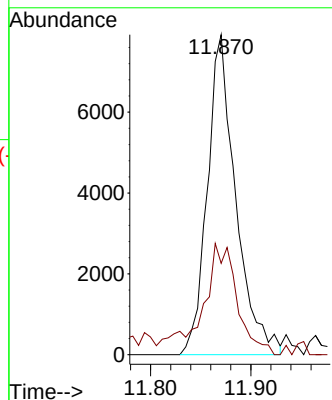
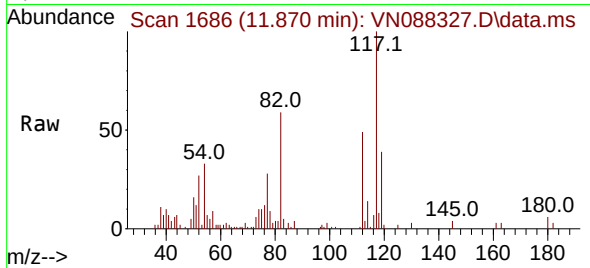
#64
Chlorobenzene
Concen: 2.497 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA

Tgt Ion:112 Resp: 1560
Ion Ratio Lower Upper
112 100
114 28.6 25.0 37.4

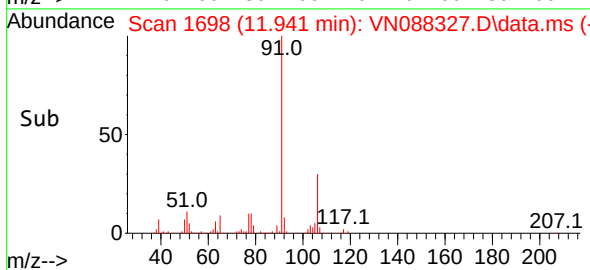
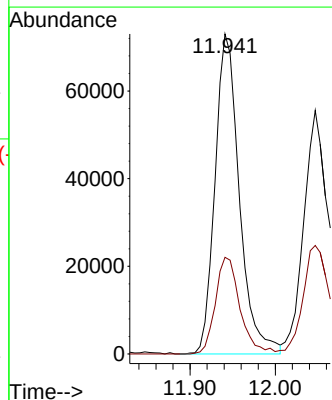
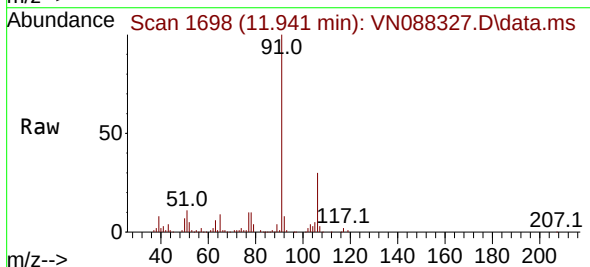
Manual Integrations
APPROVED

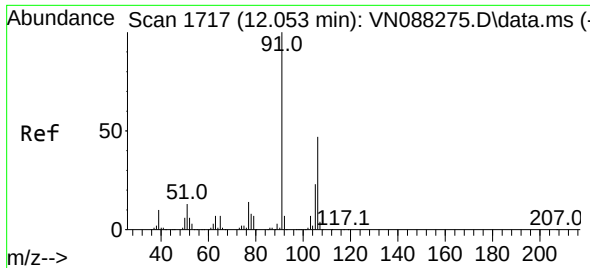
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#66
Ethyl Benzene
Concen: 13.042 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

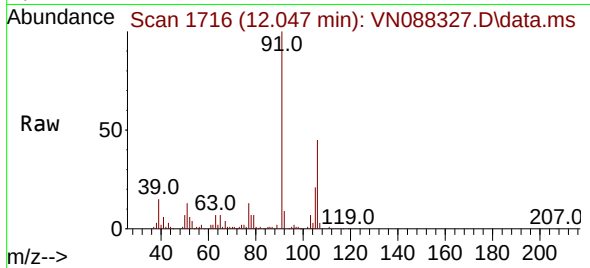
Tgt Ion: 91 Resp: 145041
Ion Ratio Lower Upper
91 100
106 30.2 24.4 36.6





#67
m/p-Xylenes
Concen: 12.712 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

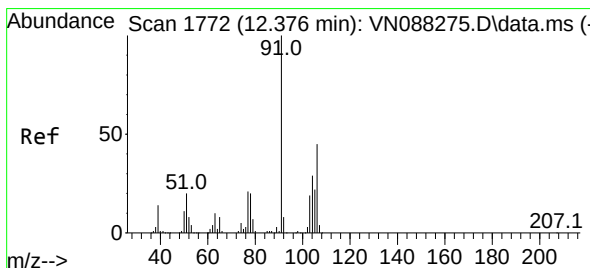
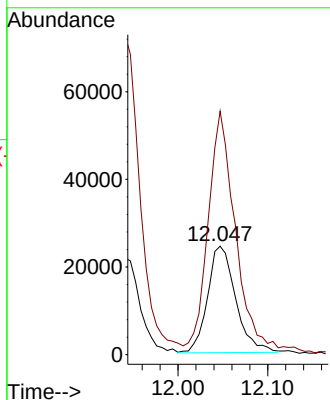
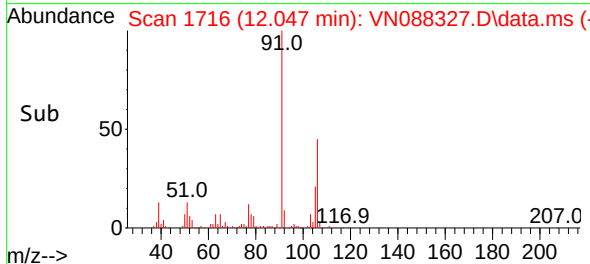
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion:106 Resp: 52869
Ion Ratio Lower Upper
106 100
91 210.6 168.3 252.5

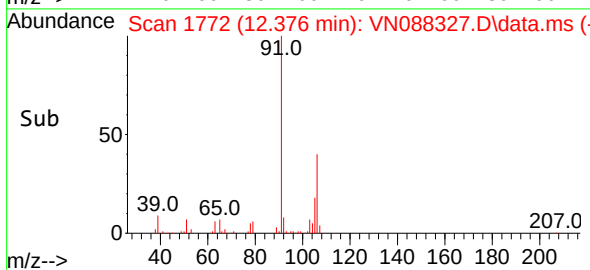
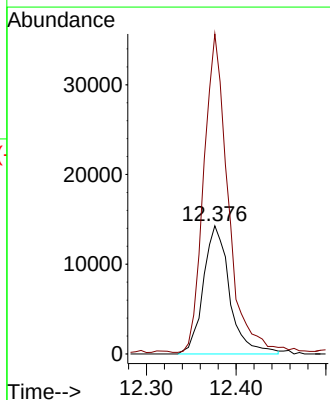
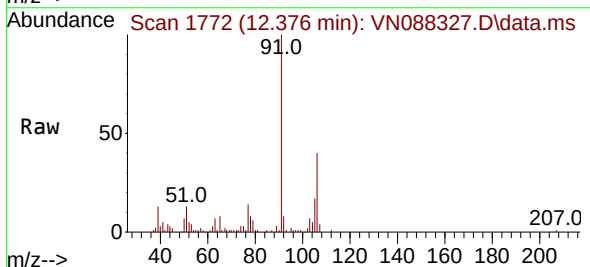
Manual Integrations
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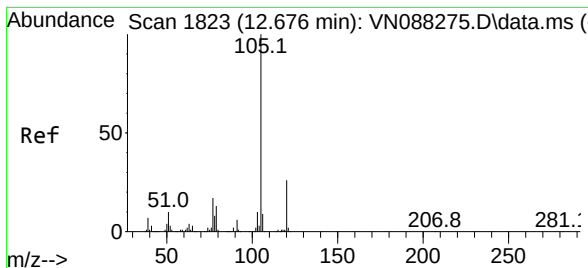
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#68
o-Xylene
Concen: 7.420 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

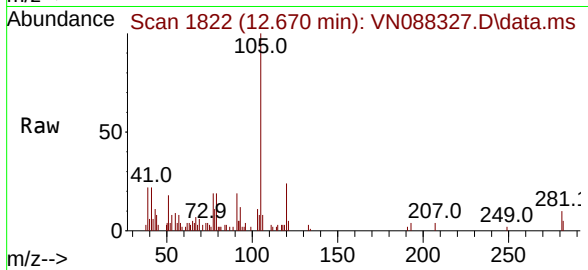
Tgt Ion:106 Resp: 29110
Ion Ratio Lower Upper
106 100
91 230.3 114.0 342.0





#70
Isopropylbenzene
Concen: 1.890 ug/l
RT: 12.670 min Scan# 1823
Delta R.T. -0.006 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

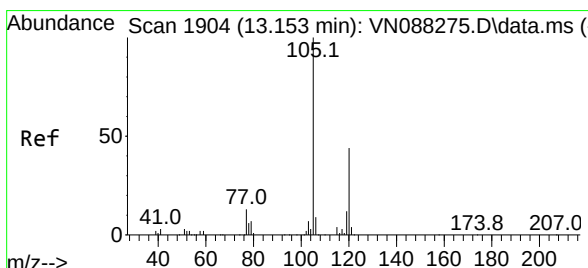
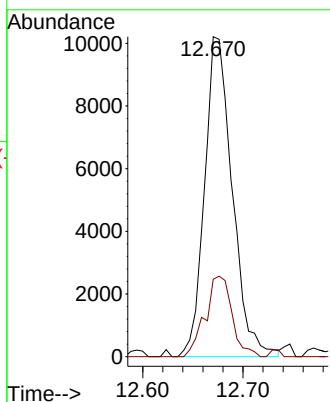
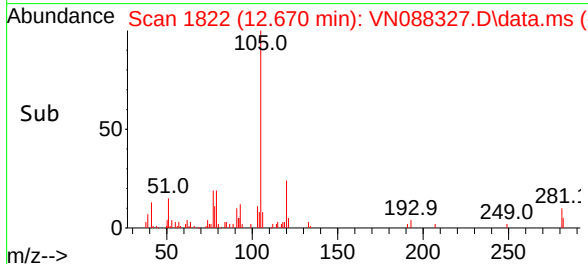
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



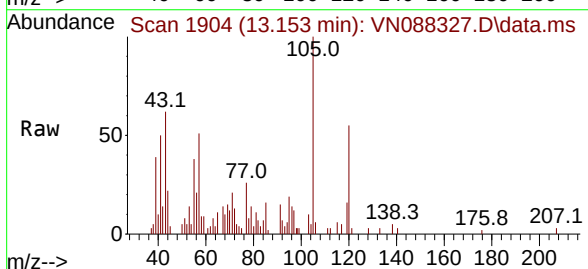
Tgt Ion:105 Resp: 19650
Ion Ratio Lower Upper
105 100
120 24.2 18.2 33.8

Manual Integrations
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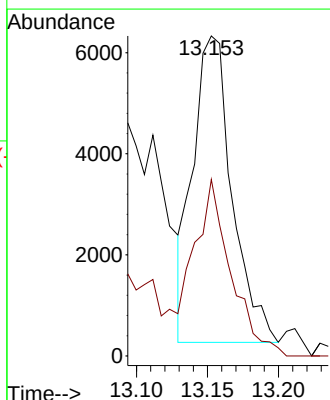
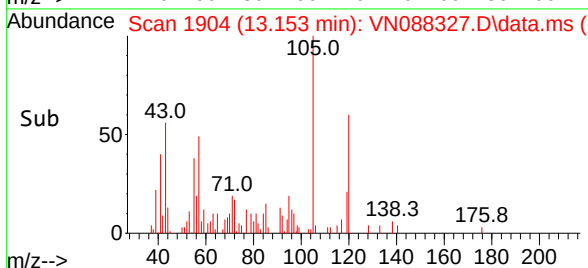
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025

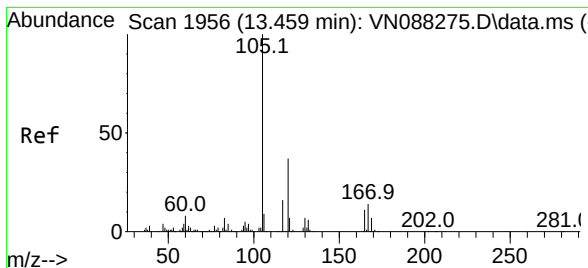


#76
1,3,5-Trimethylbenzene
Concen: 1.329 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25



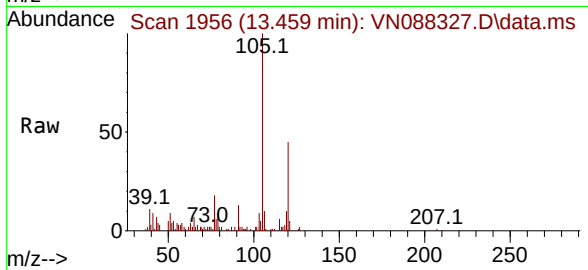
Tgt Ion:105 Resp: 11600
Ion Ratio Lower Upper
105 100
120 54.1 0.0 94.6





#80
1,2,4-Trimethylbenzene
Concen: 4.568 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

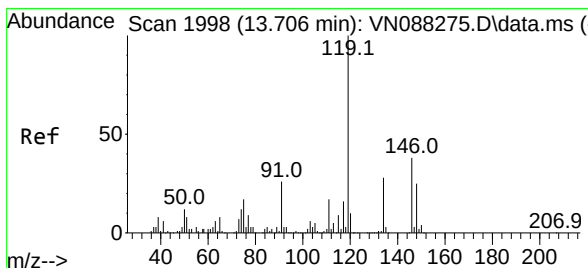
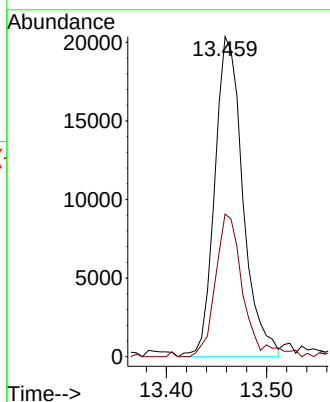
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



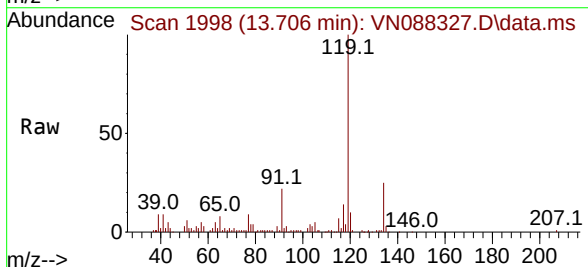
Tgt Ion:105 Resp: 39640
Ion Ratio Lower Upper
105 100
120 40.9 0.0 89.2

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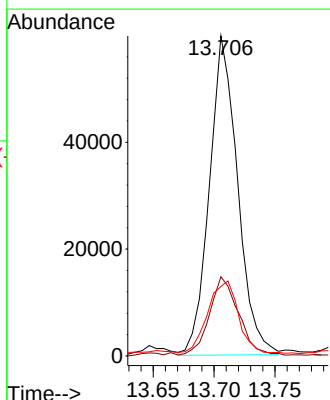
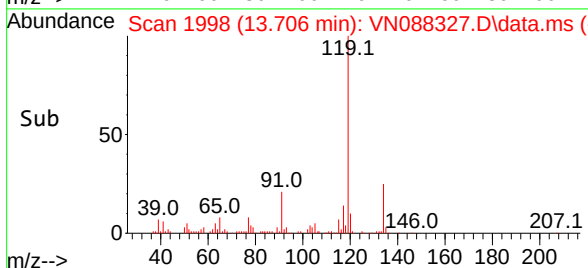
Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025

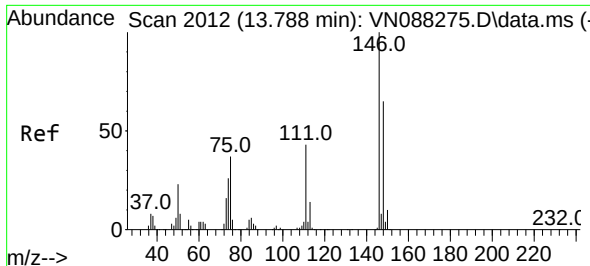


#82
p-Isopropyltoluene
Concen: 10.742 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25



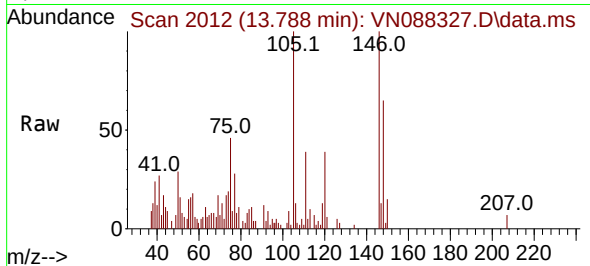
Tgt Ion:119 Resp: 96738
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.2
91 23.7 0.0 53.4





#84
1,4-Dichlorobenzene
Concen: 3.817 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

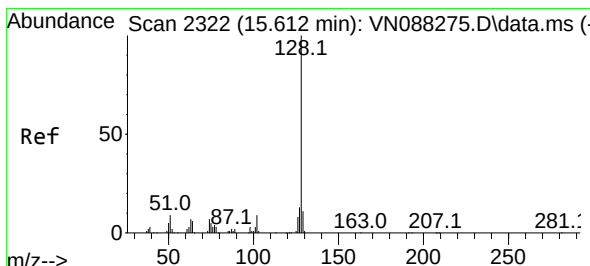
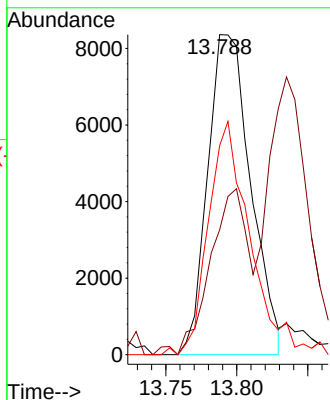
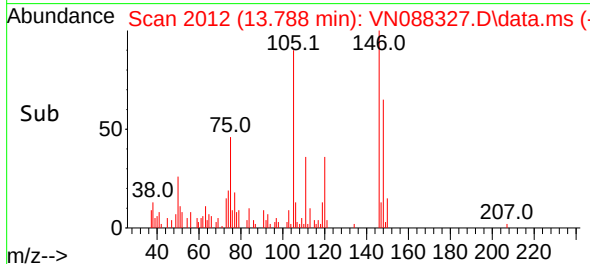
Instrument :
MSVOA_N
ClientSampleId :
251119071-01 VOA



Tgt Ion:146 Resp: 1763
Ion Ratio Lower Upper
146 100
111 45.1 21.8 65.3
148 66.9 31.9 95.5

Manual Integrations
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Reviewed By :John Carlone 11/21/2025
Supervised By :Semsettin Yesilyurt 11/21/2025



#91
Naphthalene
Concen: 33.813 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN088327.D
Acq: 20 Nov 2025 13:25

Tgt Ion:128 Resp: 295534
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.8 8.8 13.2

