

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087323.D
 Acq On : 10 Jul 2025 14:10
 Operator : JC\MD
 Sample : Q2554-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250709071-01 VOA

Manual Integrations
 APPROVED

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

Quant Time: Jul 11 01:10:50 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	44098	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	216228	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	206256	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	89559	26.955	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.833%#		
60) 4-Bromofluorobenzene	12.847	95	93064	29.240	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.467%		
63) Toluene-d8	10.565	98	255085	27.544	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	91.800%		
Target Compounds					Qvalue	
8) Diethyl Ether	3.983	74	7140	4.021	ug/l	100
12) Methyl Acetate	5.047	43	12598m	3.007	ug/l	
15) Acetone	4.441	58	555459	974.304	ug/l	94
23) tert-Butyl Alcohol	5.536	59	3065542	4170.695	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	15387m	1.642	ug/l	
30) 2-Butanone	7.488	43	2803666	1233.247	ug/l	93
34) Benzene	8.618	78	51926	4.863	ug/l	94
45) 1,4-Dioxane	9.694	88	4118m	91.042	ug/l	
58) 4-Methyl-2-Pentanone	10.453	43	33592m	8.101	ug/l	
62) Toluene	10.629	91	84518	7.255	ug/l	98
64) Chlorobenzene	11.888	112	12703	1.710	ug/l	94
66) Ethyl Benzene	11.965	91	102016	8.001	ug/l	99
67) m/p-Xylenes	12.070	106	42093	8.615	ug/l	99
68) o-Xylene	12.394	106	24256	5.204	ug/l	93
70) Isopropylbenzene	12.688	105	17829	1.536	ug/l	100
74) n-propylbenzene	13.035	91	8559	0.603	ug/l	94
80) 1,2,4-Trimethylbenzene	13.482	105	31501	3.319	ug/l	99
82) p-Isopropyltoluene	13.723	119	48978	5.096	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	24828	4.549	ug/l	99
91) Naphthalene	15.635	128	505411	44.390	ug/l	99

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

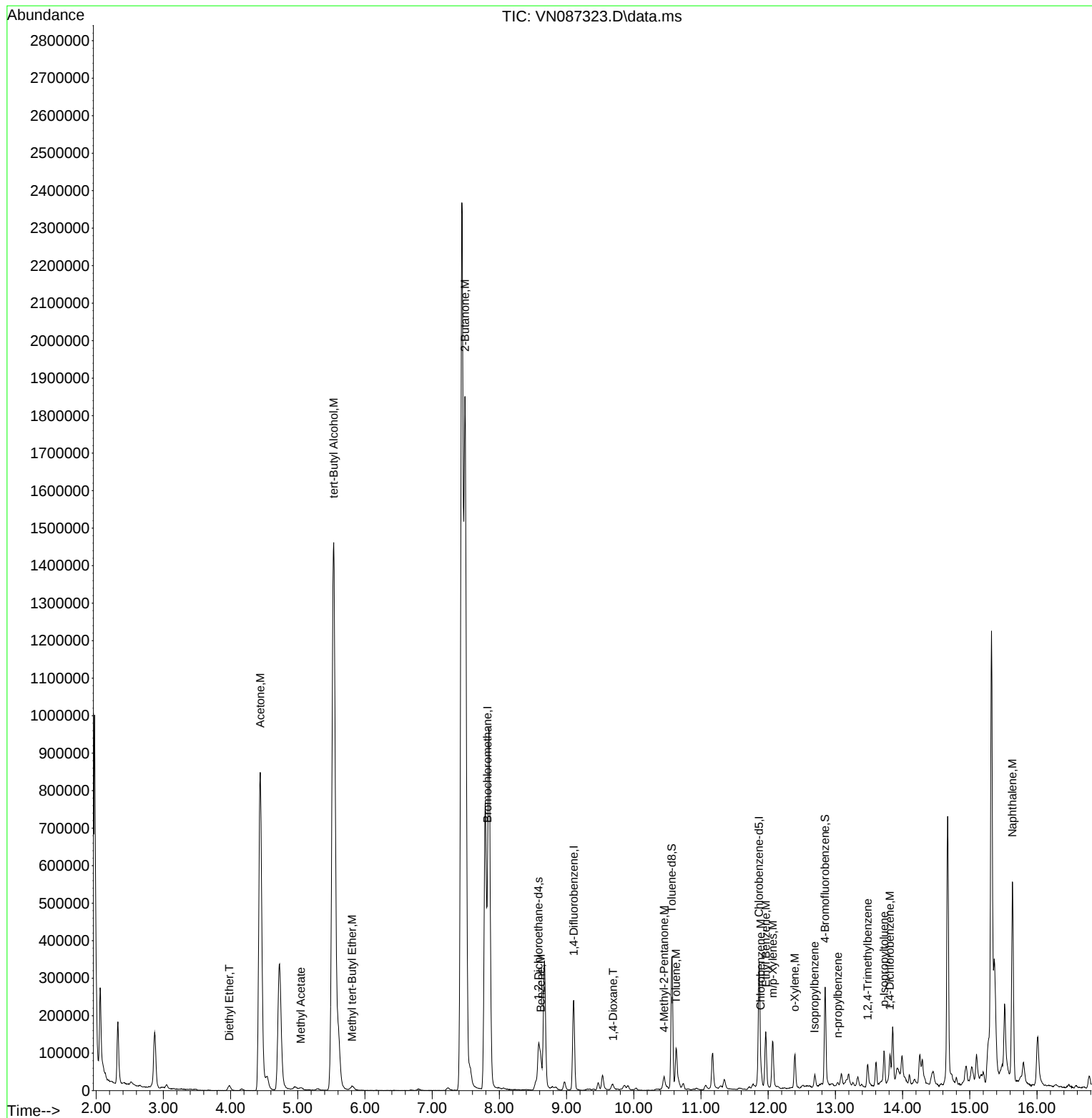
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

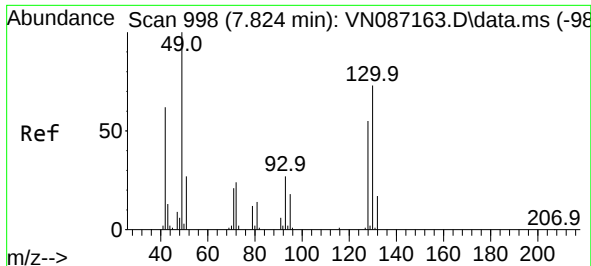
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Quant Time: Jul 11 01:10:50 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

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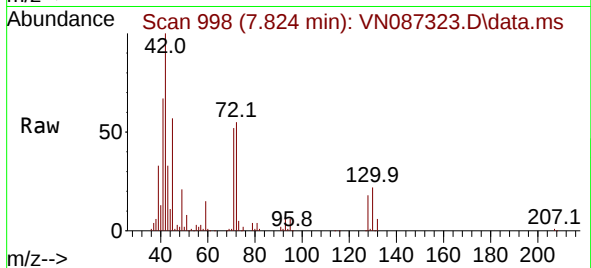
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

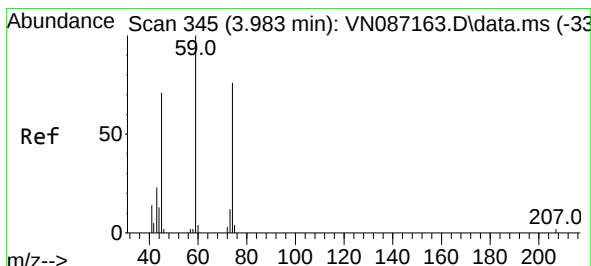
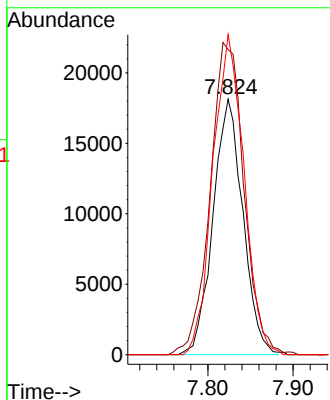
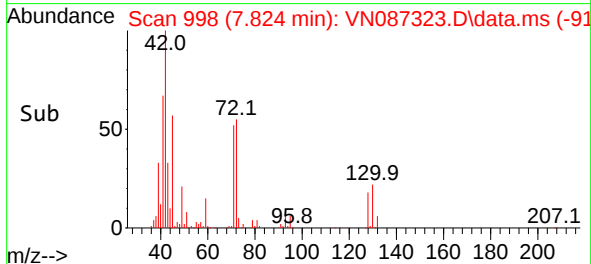
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion:128 Resp: 44098
Ion Ratio Lower Upper
128 100
49 138.8 0.0 450.5
130 130.7 0.0 320.7

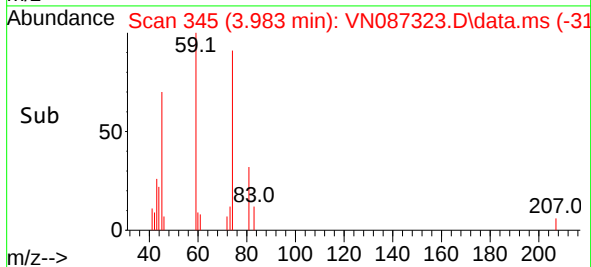
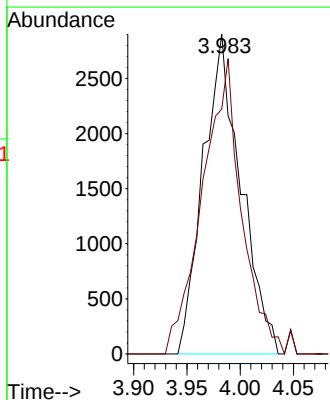
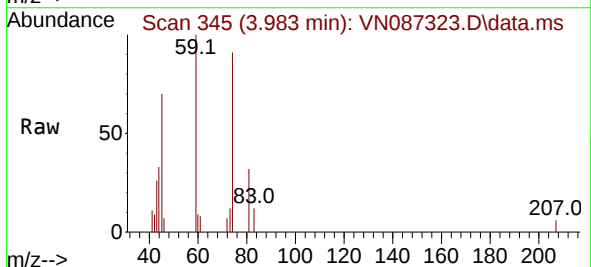
Manual Integrations
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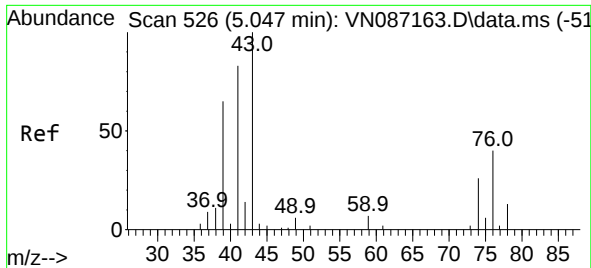
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#8
Diethyl Ether
Concen: 4.021 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

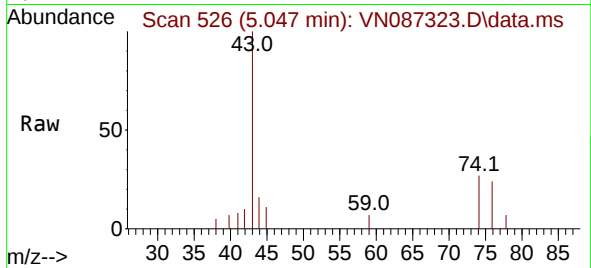
Tgt Ion: 74 Resp: 7140
Ion Ratio Lower Upper
74 100
45 95.2 19.0 171.0





#12
Methyl Acetate
Concen: 3.007 ug/l m
RT: 5.047 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

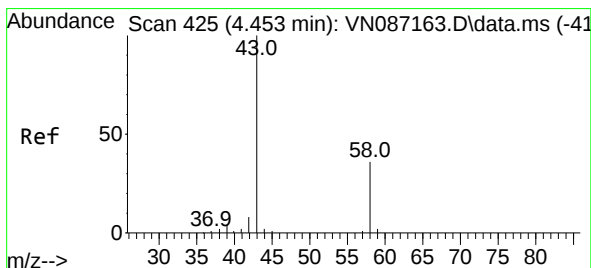
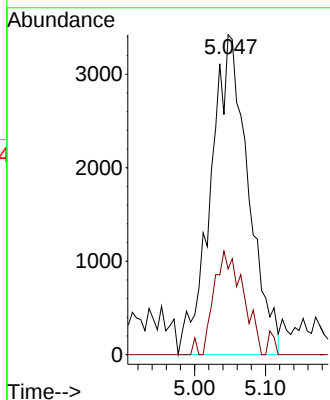
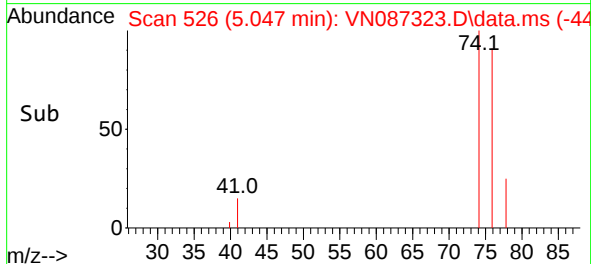
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion: 43 Resp: 12598
Ion Ratio Lower Upper
43 100
74 26.8 20.3 30.5

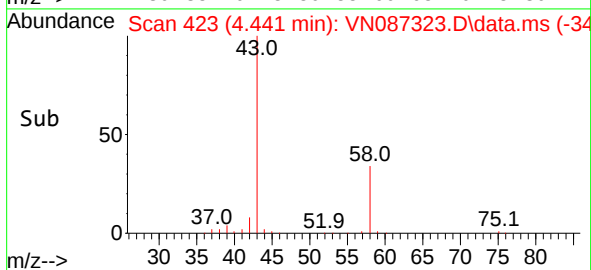
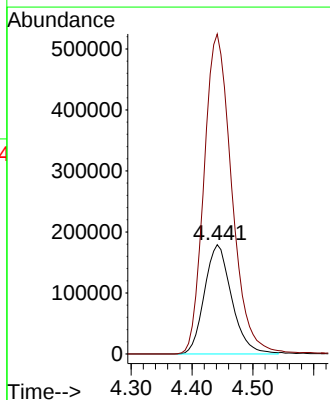
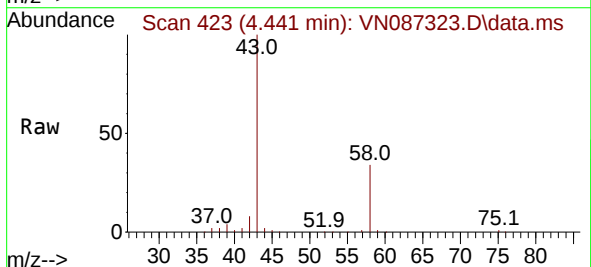
Manual Integrations
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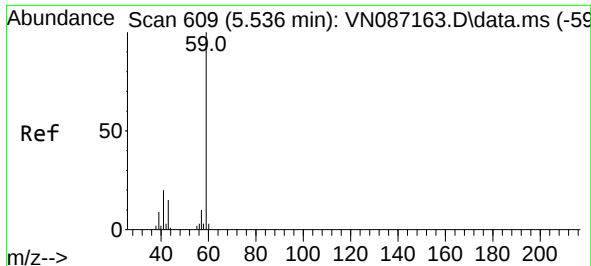
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#15
Acetone
Concen: 974.304 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.012 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

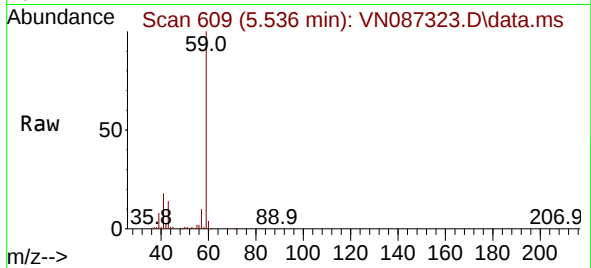
Tgt Ion: 58 Resp: 555459
Ion Ratio Lower Upper
58 100
43 292.4 224.3 336.5





#23
tert-Butyl Alcohol
Concen: 4170.695 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

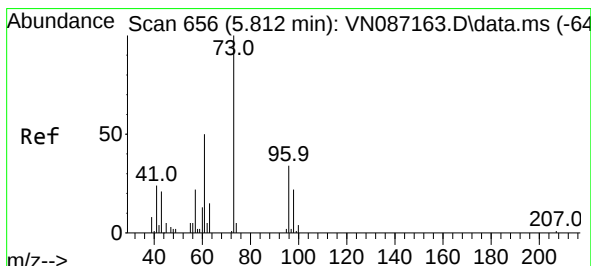
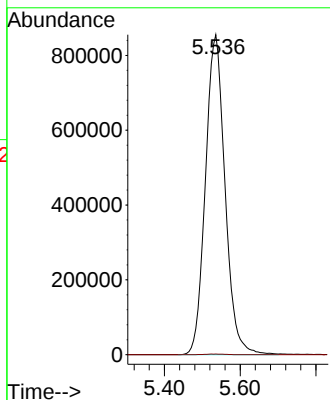
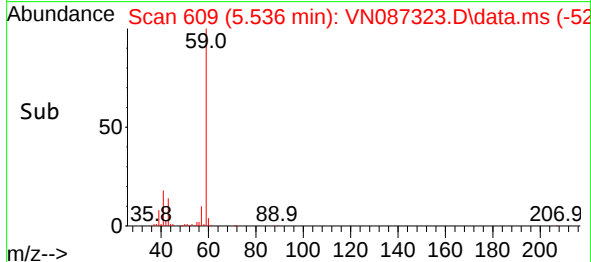
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



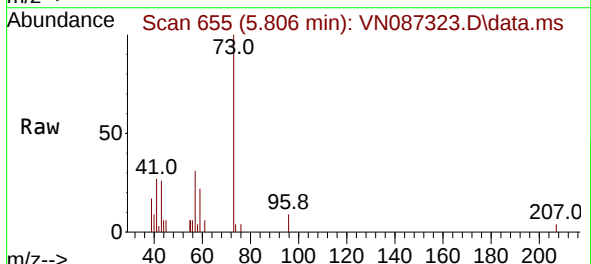
Tgt Ion: 59 Resp: 306554
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0

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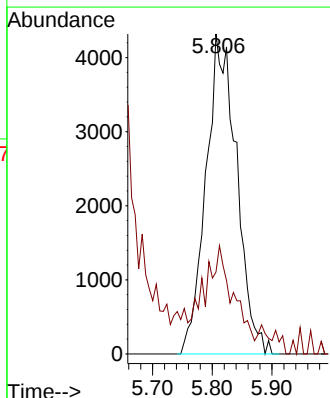
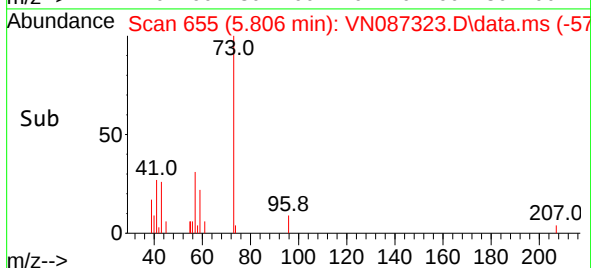
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

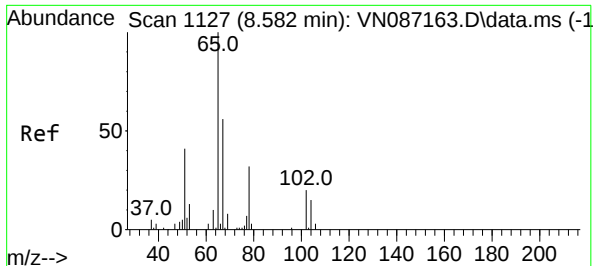


#24
Methyl tert-Butyl Ether
Concen: 1.642 ug/l m
RT: 5.806 min Scan# 655
Delta R.T. -0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10



Tgt Ion: 73 Resp: 15387
Ion Ratio Lower Upper
73 100
43 4.7 16.4 24.6





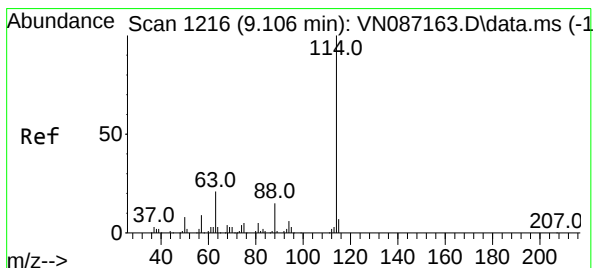
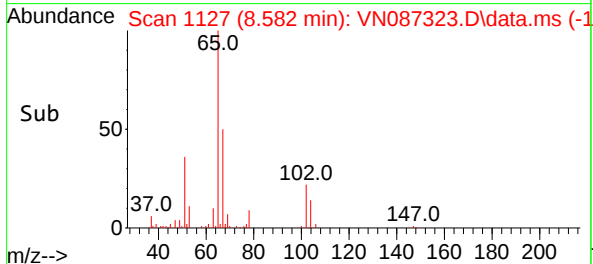
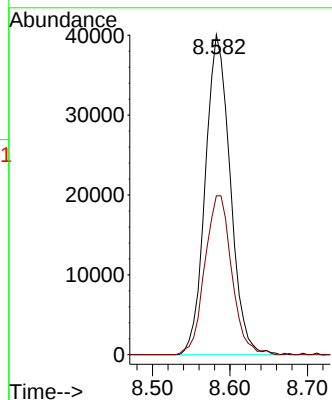
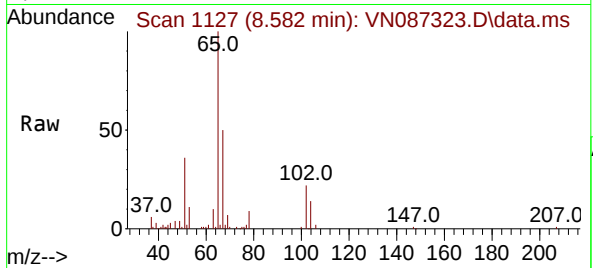
#27
1,2-Dichloroethane-d4
Concen: 26.955 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Tgt Ion: 65 Resp: 8955
Ion Ratio Lower Upper
65 100
67 53.3 41.9 62.9

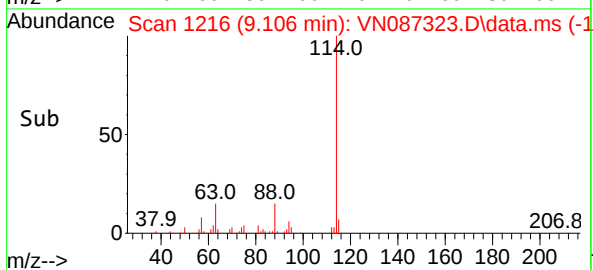
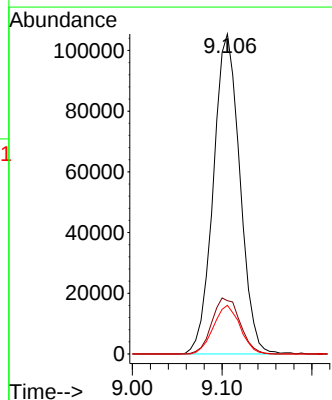
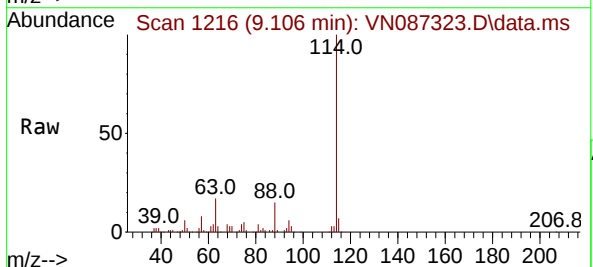
Manual Integrations
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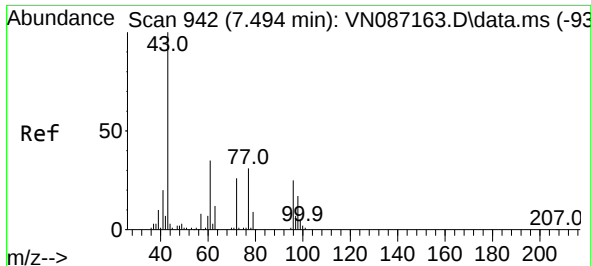
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

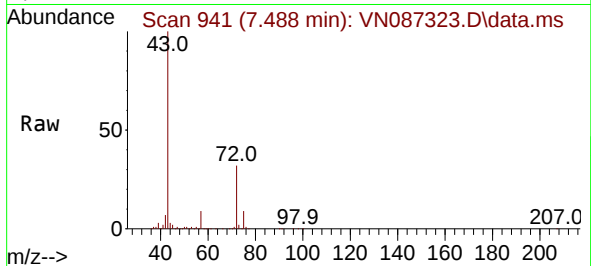
Tgt Ion:114 Resp: 216228
Ion Ratio Lower Upper
114 100
63 18.6 17.0 25.4
88 15.2 12.6 19.0





#30
2-Butanone
Concen: 1233.247 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

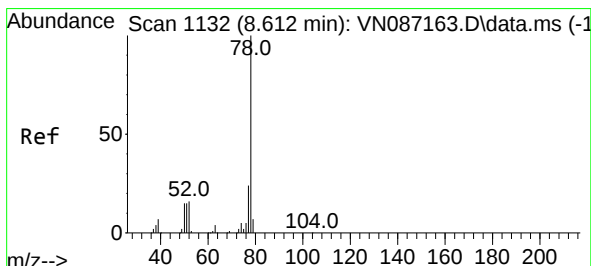
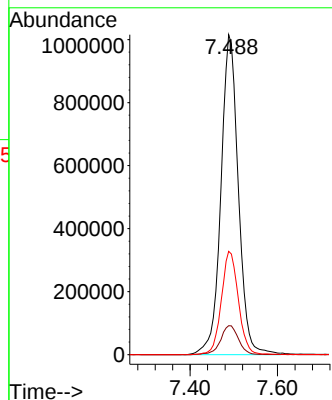
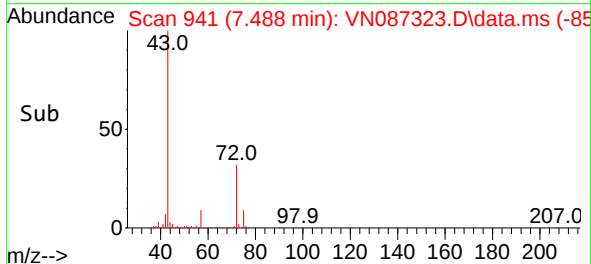
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion: 43 Resp: 280366
Ion Ratio Lower Upper
43 100
57 9.4 6.3 9.5
72 31.4 21.8 32.6

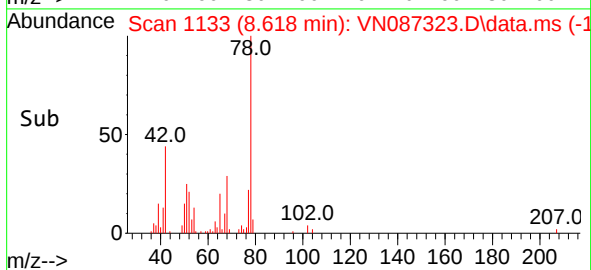
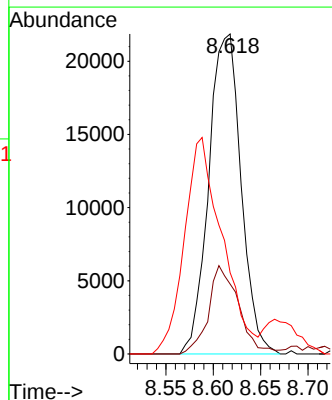
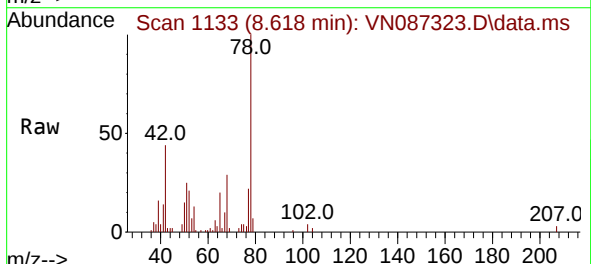
Manual Integrations
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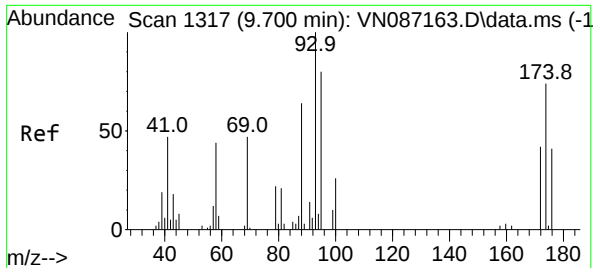
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#34
Benzene
Concen: 4.863 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

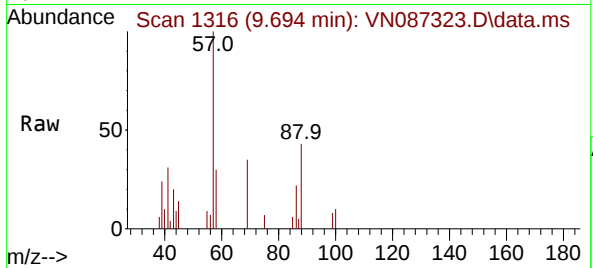
Tgt Ion: 78 Resp: 51926
Ion Ratio Lower Upper
78 100
77 21.9 19.5 29.3
51 15.4 14.8 22.2





#45
1,4-Dioxane
Concen: 91.042 ug/l m
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

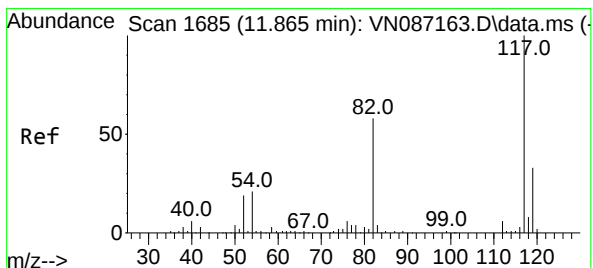
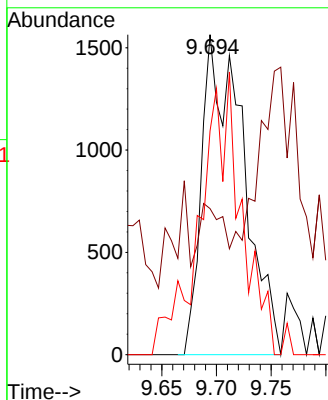
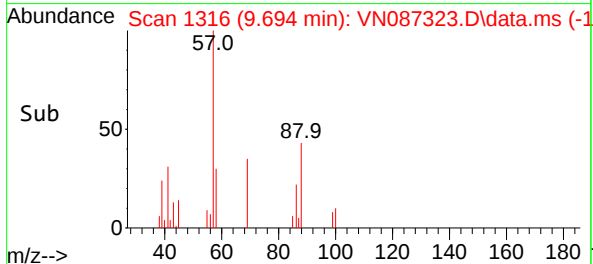
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion: 88 Resp: 4118
Ion Ratio Lower Upper
88 100
43 28.1 21.3 31.9
58 39.3 61.7 92.5

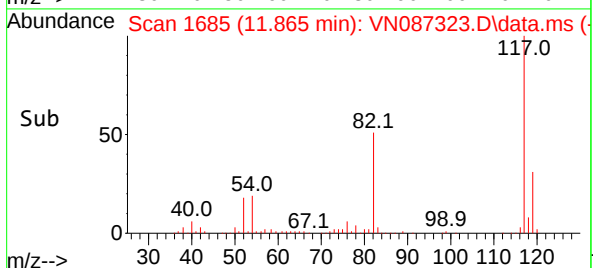
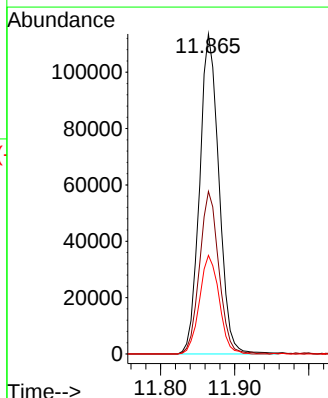
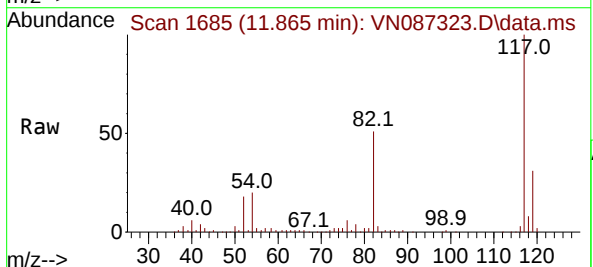
Manual Integrations
APPROVED

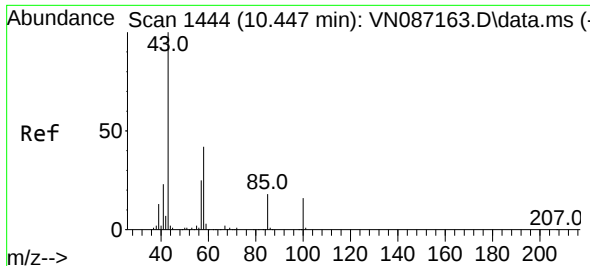
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

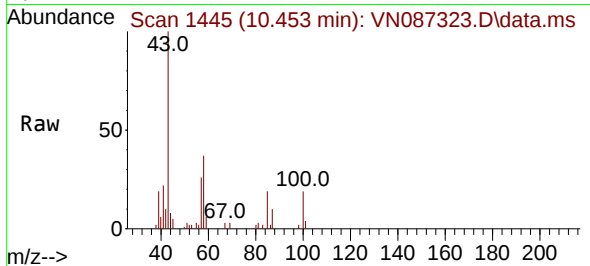
Tgt Ion:117 Resp: 206256
Ion Ratio Lower Upper
117 100
82 50.4 45.4 68.2
119 31.3 26.2 39.4





#58
4-Methyl-2-Pentanone
Concen: 8.101 ug/l m
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

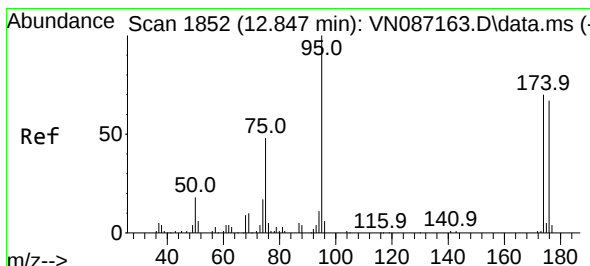
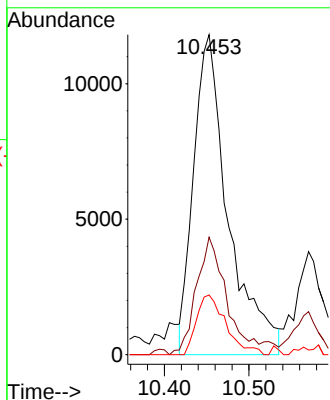
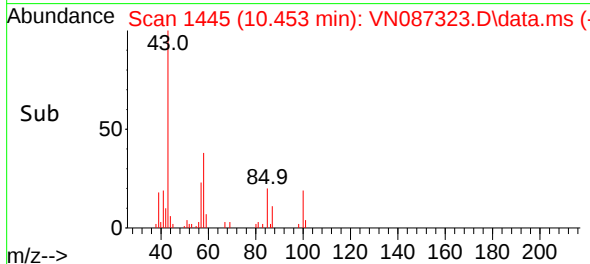
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion: 43 Resp: 33592
Ion Ratio Lower Upper
43 100
58 30.7 32.6 49.0
85 15.1 14.6 22.0

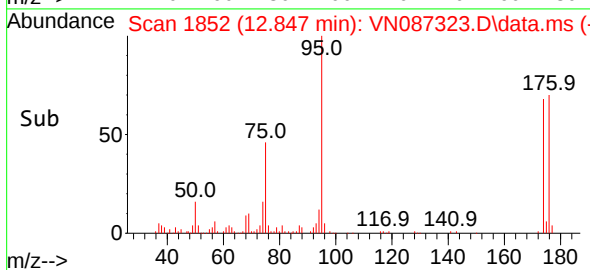
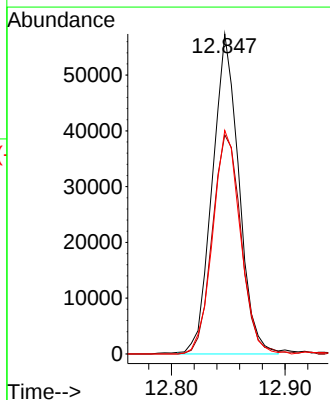
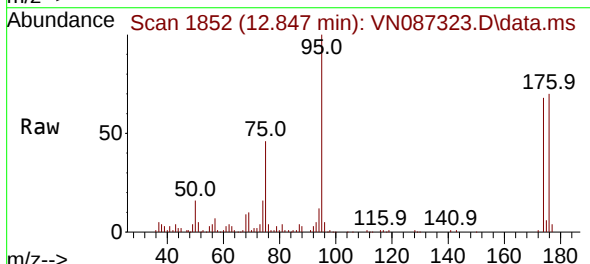
Manual Integrations
APPROVED

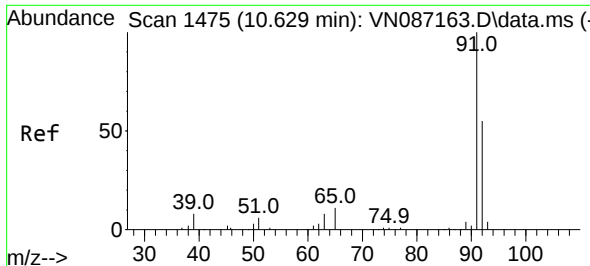
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#60
4-Bromofluorobenzene
Concen: 29.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

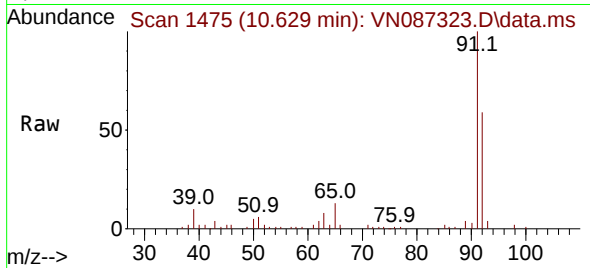
Tgt Ion: 95 Resp: 93064
Ion Ratio Lower Upper
95 100
174 74.2 54.5 81.7
176 72.8 51.9 77.9





#62
Toluene
Concen: 7.255 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

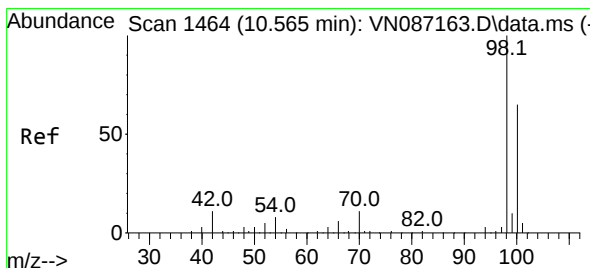
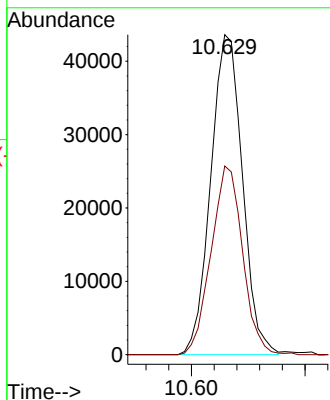
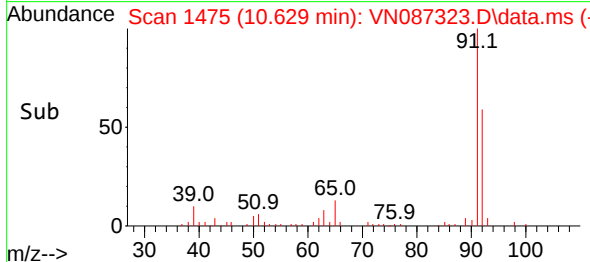
Instrument : MSVOA_N
ClientSampleId : 250709071-01 VOA



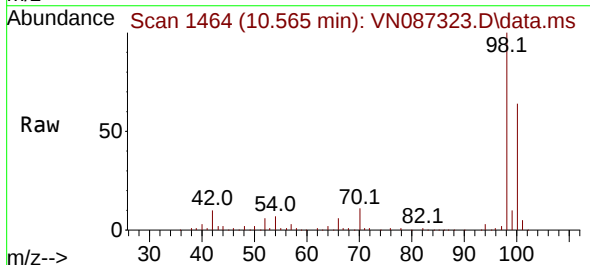
Tgt Ion: 91 Resp: 84518
Ion Ratio Lower Upper
91 100
92 58.5 45.8 68.8

Manual Integrations
APPROVED

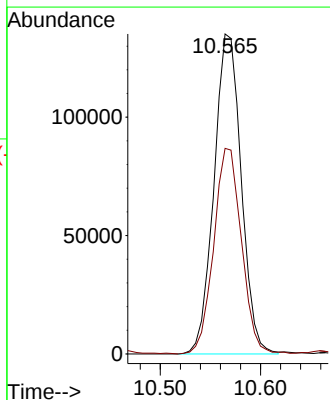
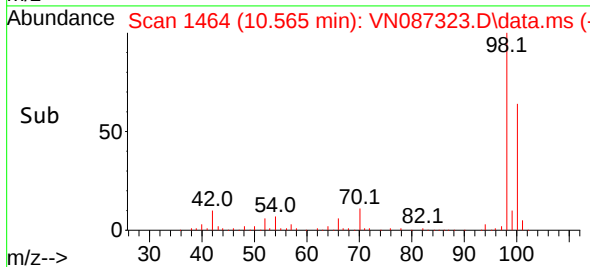
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

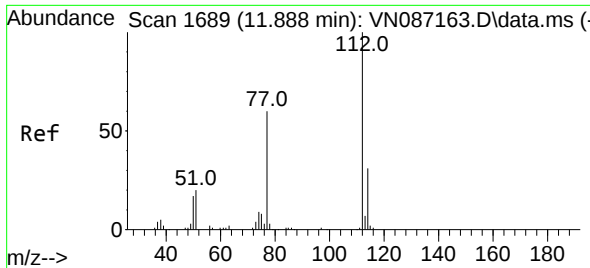


#63
Toluene-d8
Concen: 27.544 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10



Tgt Ion: 98 Resp: 255085
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7





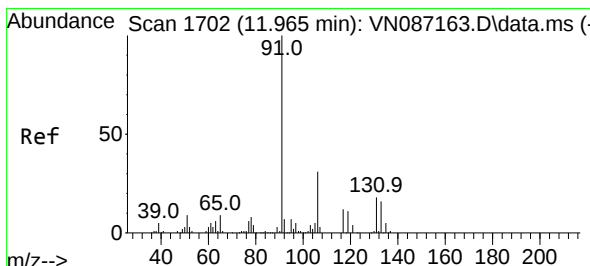
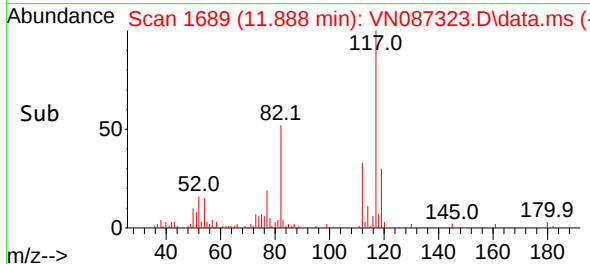
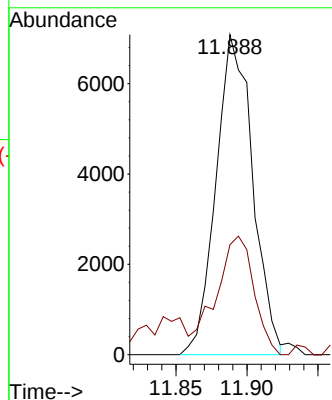
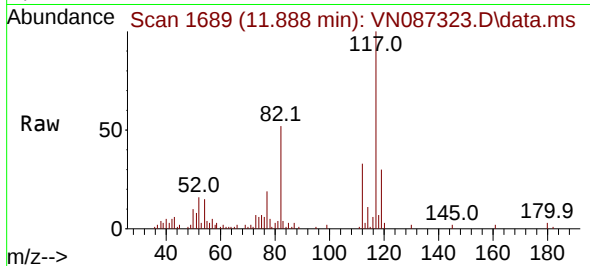
#64
Chlorobenzene
Concen: 1.710 ug/l
RT: 11.888 min Scan# 1118
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Tgt Ion:112 Resp: 1270
Ion Ratio Lower Upper
112 100
114 34.3 25.0 37.4

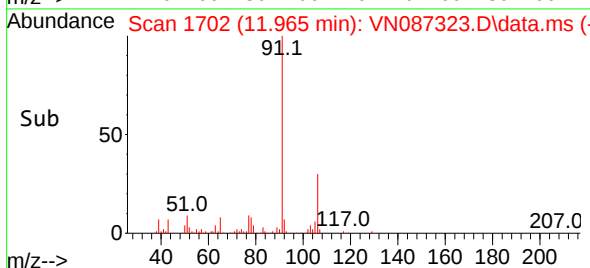
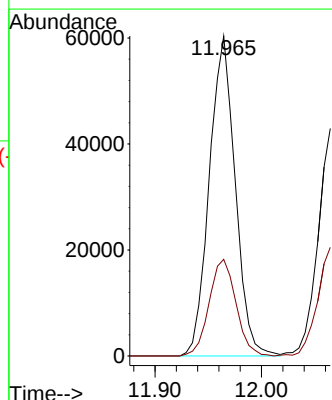
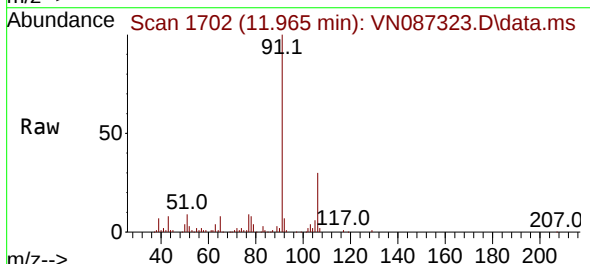
Manual Integrations
APPROVED

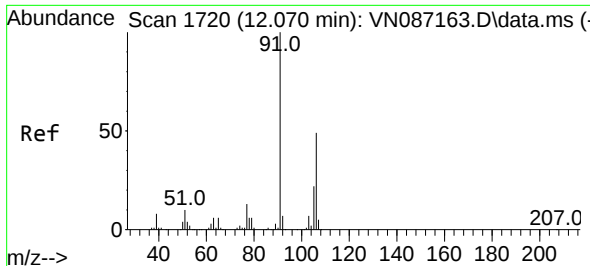
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#66
Ethyl Benzene
Concen: 8.001 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

Tgt Ion: 91 Resp: 102016
Ion Ratio Lower Upper
91 100
106 30.2 24.8 37.2





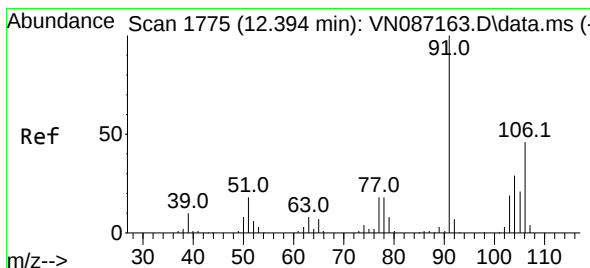
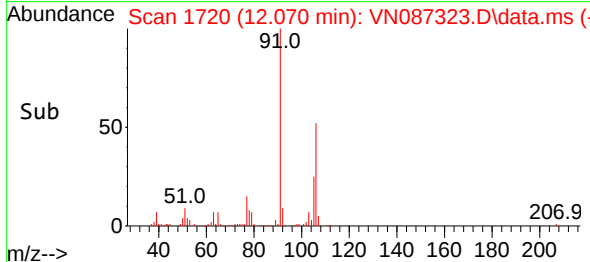
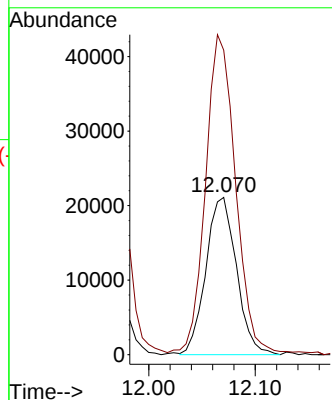
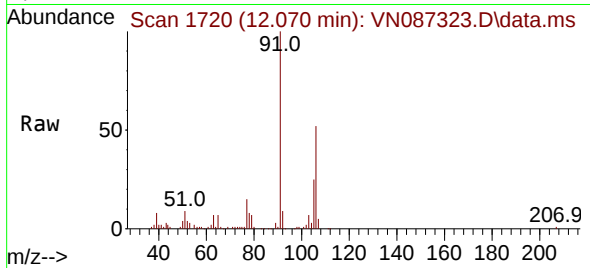
#67
m/p-Xylenes
Concen: 8.615 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Tgt Ion:106 Resp: 42093
Ion Ratio Lower Upper
106 100
91 201.5 163.0 244.4

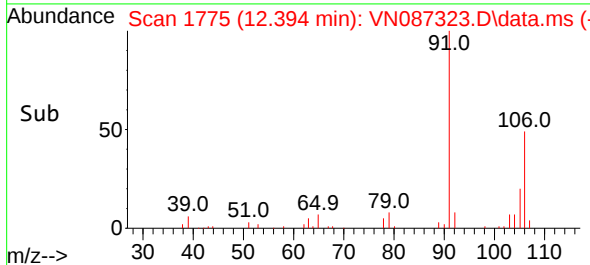
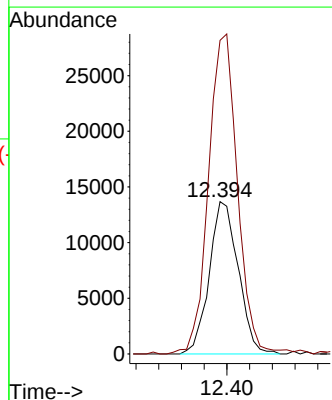
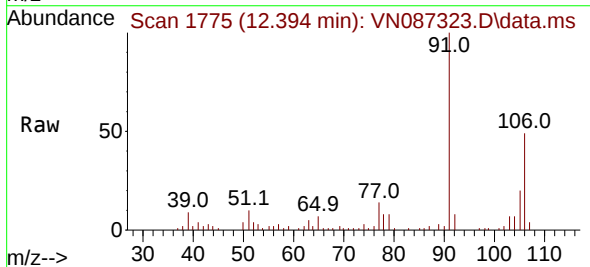
Manual Integrations
APPROVED

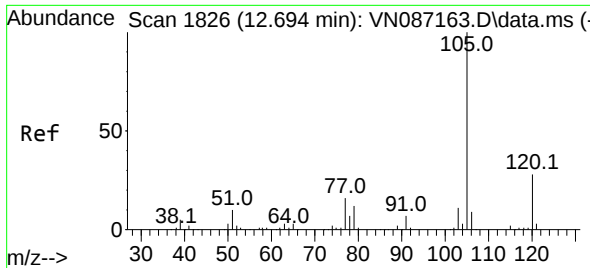
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#68
o-Xylene
Concen: 5.204 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

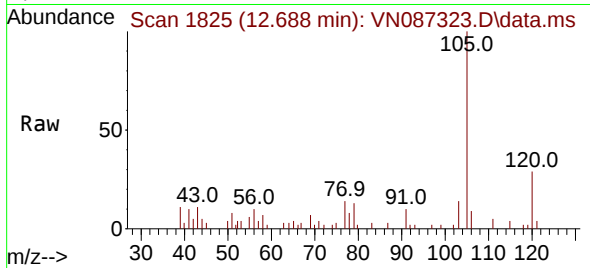
Tgt Ion:106 Resp: 24256
Ion Ratio Lower Upper
106 100
91 202.7 107.1 321.1





#70
Isopropylbenzene
Concen: 1.536 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

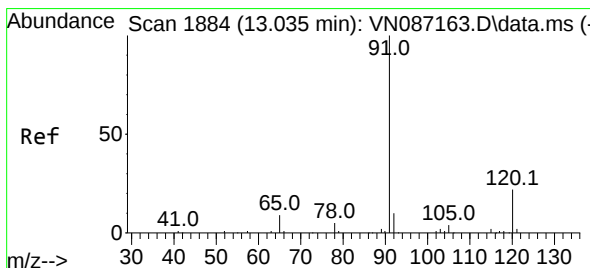
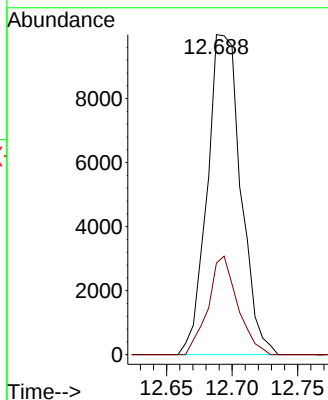
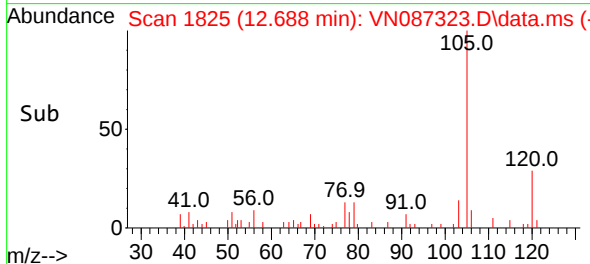
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



Tgt Ion:105 Resp: 17829
Ion Ratio Lower Upper
105 100
120 27.0 19.0 35.2

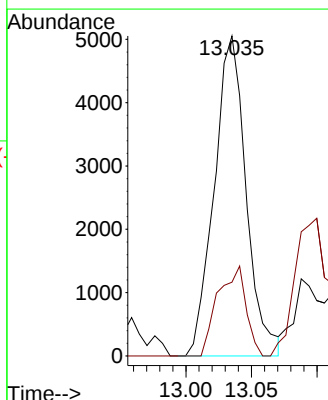
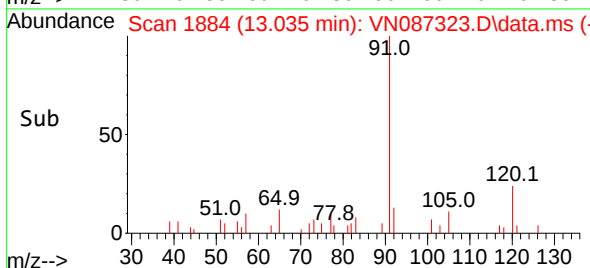
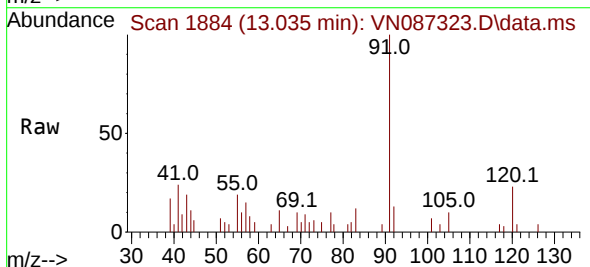
Manual Integrations
APPROVED

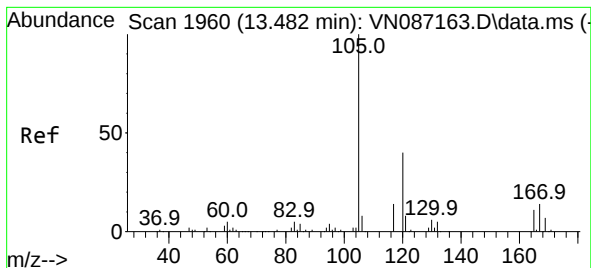
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#74
n-propylbenzene
Concen: 0.603 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

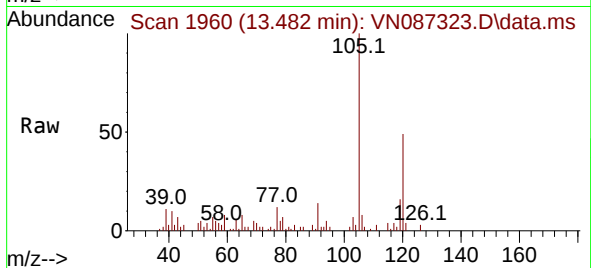
Tgt Ion: 91 Resp: 8559
Ion Ratio Lower Upper
91 100
120 24.6 0.0 43.6





#80
1,2,4-Trimethylbenzene
Concen: 3.319 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

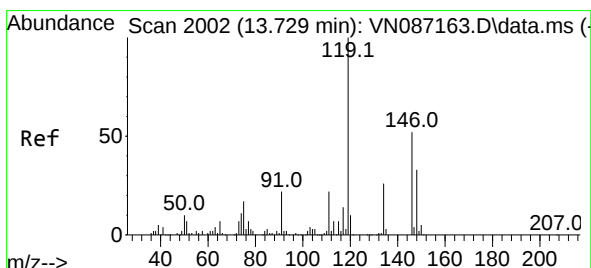
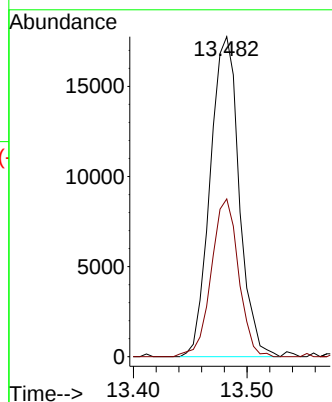
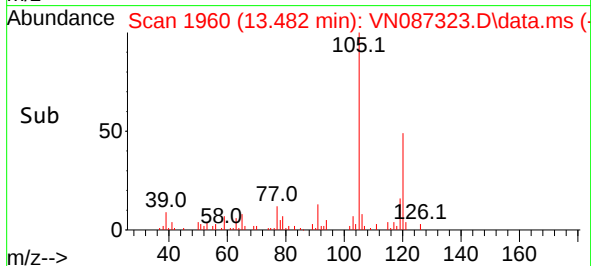
Instrument : MSVOA_N
ClientSampleId : 250709071-01 VOA



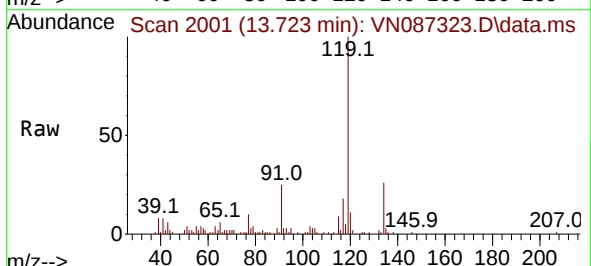
Tgt Ion:105 Resp: 3150
Ion Ratio Lower Upper
105 100
120 46.3 0.0 94.0

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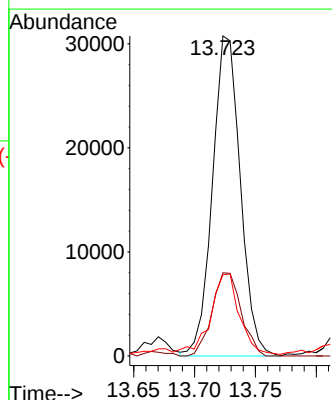
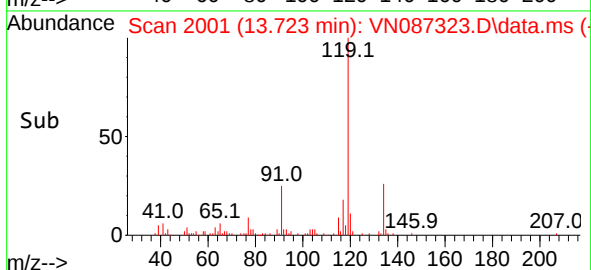
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

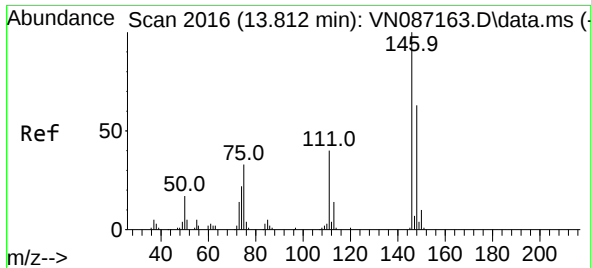


#82
p-Isopropyltoluene
Concen: 5.096 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10



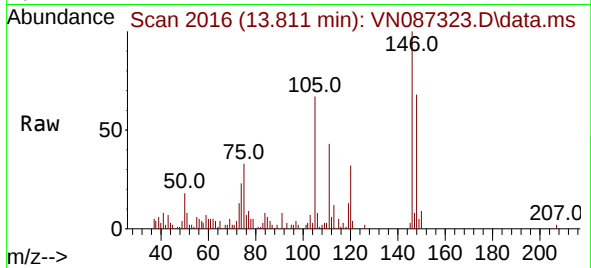
Tgt Ion:119 Resp: 48978
Ion Ratio Lower Upper
119 100
134 27.0 0.0 51.2
91 25.0 0.0 46.4





#84
1,4-Dichlorobenzene
Concen: 4.549 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10

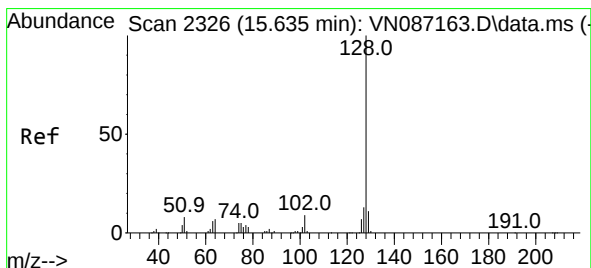
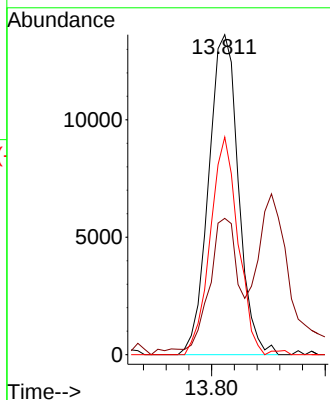
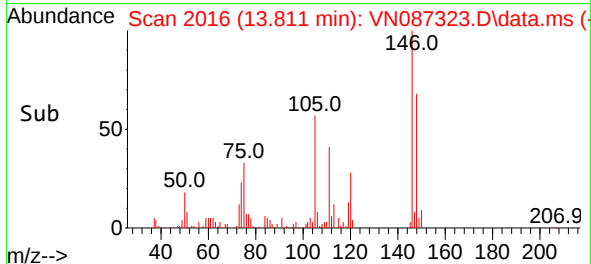
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA



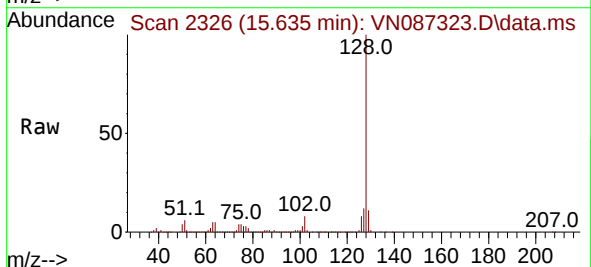
Tgt Ion:146 Resp: 24828
Ion Ratio Lower Upper
146 100
111 39.3 20.1 60.2
148 63.4 31.4 94.2

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



#91
Naphthalene
Concen: 44.390 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN087323.D
Acq: 10 Jul 2025 14:10



Tgt Ion:128 Resp: 505411
Ion Ratio Lower Upper
128 100
127 13.5 10.6 15.8
129 11.2 8.8 13.2

