

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
 Data File : VN087816.D
 Acq On : 12 Sep 2025 12:40
 Operator : JC\MD
 Sample : Q3078-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
 Supervised By :Mahesh Dadoda 09/15/2025

Quant Time: Sep 12 22:52:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	55446	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	279587	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	261896	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142320	30.048	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	12.829	95	118936	28.244	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.133%			
63) Toluene-d8	10.541	98	352072	28.907	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.367%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	2566	0.709	ug/l #	70
8) Diethyl Ether	3.953	74	12129	4.792	ug/l	97
12) Methyl Acetate	5.018	43	11241	2.179	ug/l	94
15) Acetone	4.418	58	650497	938.888	ug/l	89
16) Carbon Disulfide	4.706	76	15578m	1.695	ug/l	
23) tert-Butyl Alcohol	5.518	59	3109972	3961.284	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	18741m	1.568	ug/l	
30) 2-Butanone	7.465	43	3544664	1132.450	ug/l	97
34) Benzene	8.582	78	43742	2.979	ug/l #	85
45) 1,4-Dioxane	9.677	88	4155m	65.719	ug/l	
58) 4-Methyl-2-Pentanone	10.424	43	76210	12.307	ug/l	92
62) Toluene	10.606	91	109194	6.893	ug/l	98
64) Chlorobenzene	11.865	112	11337	1.166	ug/l	98
66) Ethyl Benzene	11.941	91	111813	6.542	ug/l	96
67) m/p-Xylenes	12.047	106	38245	6.028	ug/l	90
68) o-Xylene	12.376	106	20779	3.378	ug/l	86
70) Isopropylbenzene	12.676	105	10813	0.693	ug/l	96
74) n-propylbenzene	13.012	91	8823	0.448	ug/l	98
76) 1,3,5-Trimethylbenzene	13.147	105	8210	0.623	ug/l	93
80) 1,2,4-Trimethylbenzene	13.459	105	28180	2.087	ug/l	95
82) p-Isopropyltoluene	13.706	119	29215	2.186	ug/l	84
84) 1,4-Dichlorobenzene	13.794	146	23903	3.242	ug/l	97
91) Naphthalene	15.611	128	299400	20.608	ug/l	98

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

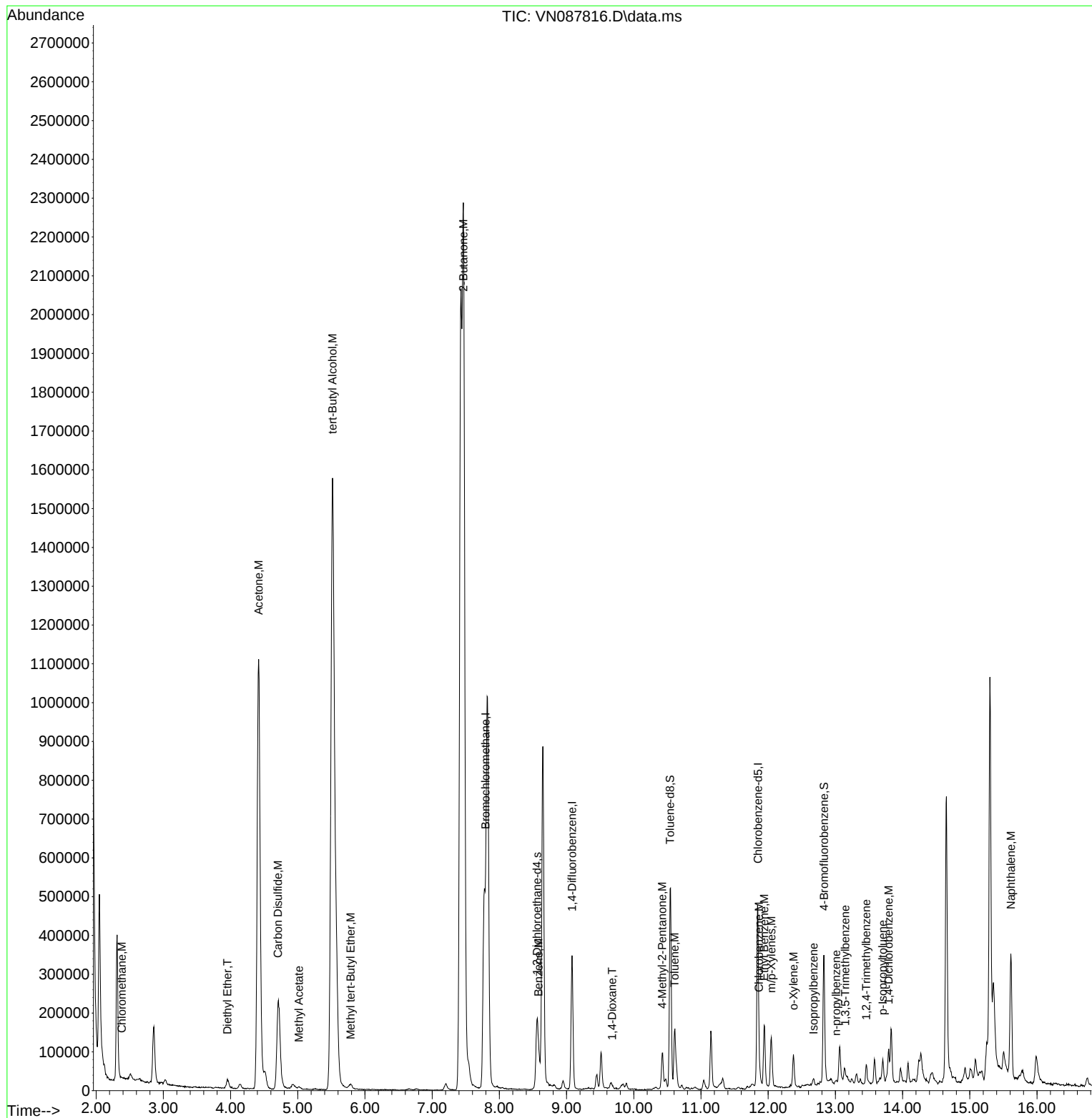
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087816.D
Acq On : 12 Sep 2025 12:40
Operator : JC\MD
Sample : Q3078-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

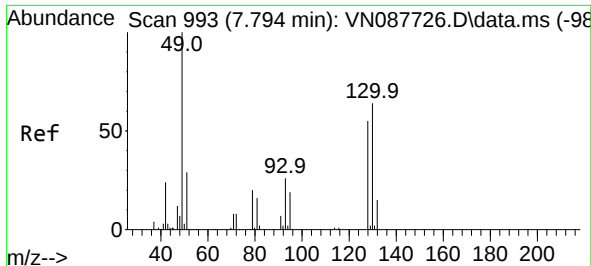
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Quant Time: Sep 12 22:52:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration





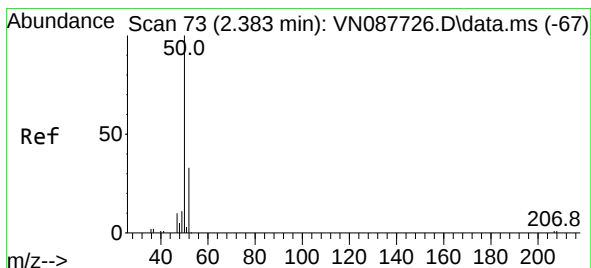
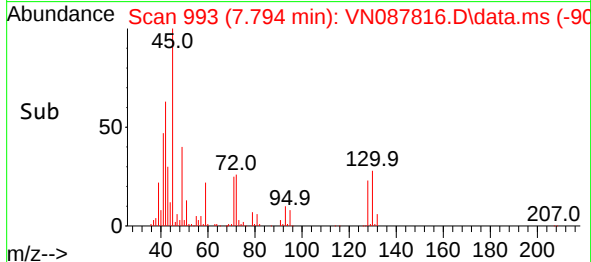
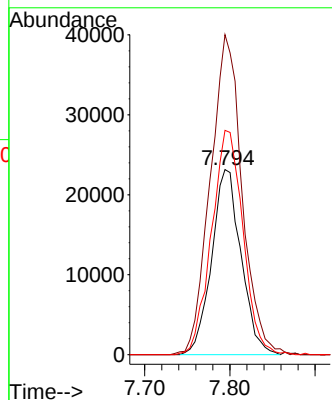
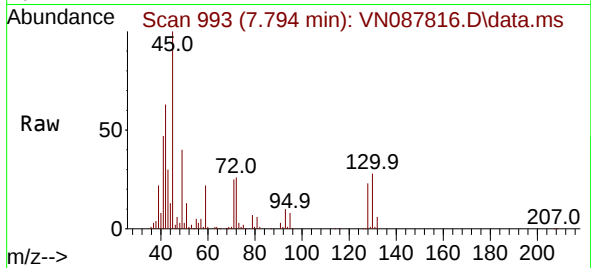
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Tgt Ion:128 Resp: 55440
Ion Ratio Lower Upper
128 100
49 186.4 0.0 464.3
130 129.7 0.0 300.5

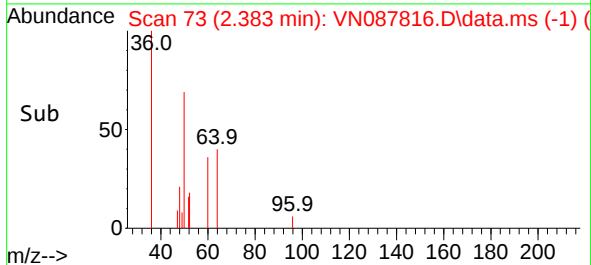
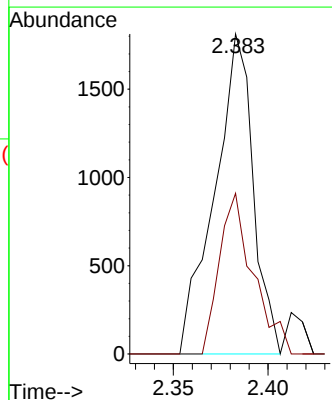
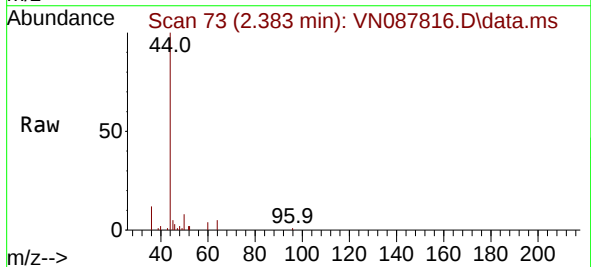
Manual Integrations
APPROVED

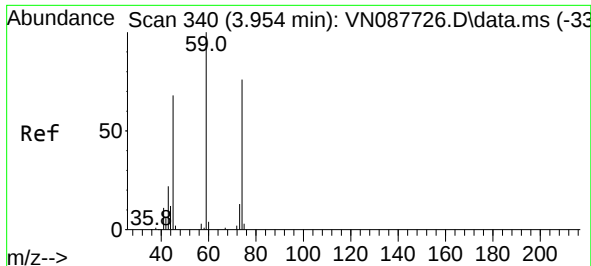
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#3
Chloromethane
Concen: 0.709 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

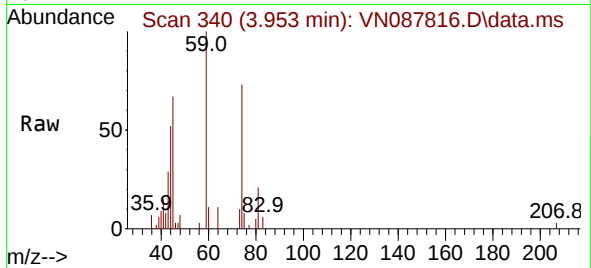
Tgt Ion: 50 Resp: 2566
Ion Ratio Lower Upper
50 100
52 50.2 26.6 40.0#





#8
Diethyl Ether
Concen: 4.792 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

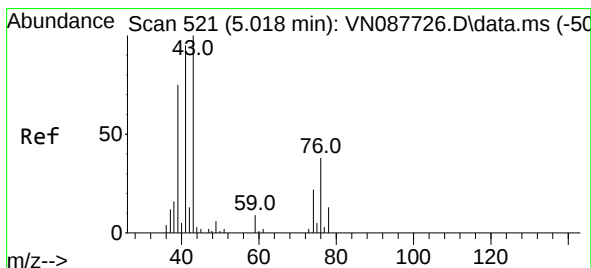
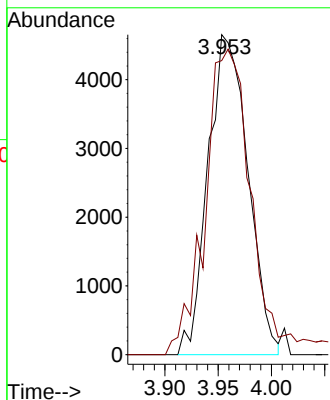
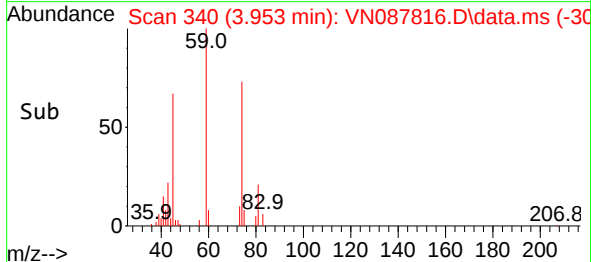
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 74 Resp: 12129
Ion Ratio Lower Upper
74 100
45 105.4 20.4 183.8

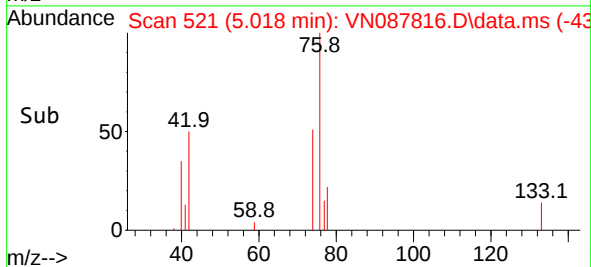
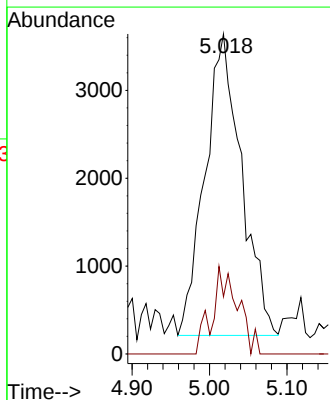
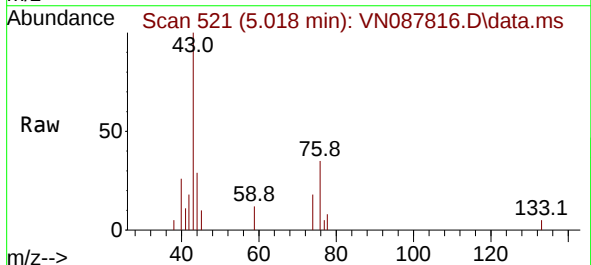
Manual Integrations
APPROVED

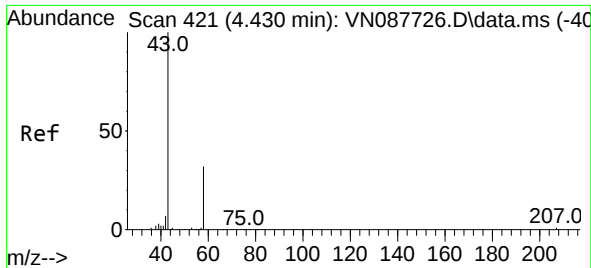
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#12
Methyl Acetate
Concen: 2.179 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

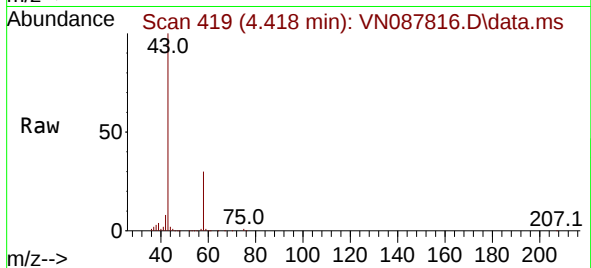
Tgt Ion: 43 Resp: 11241
Ion Ratio Lower Upper
43 100
74 19.1 17.5 26.3





#15
Acetone
Concen: 938.888 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

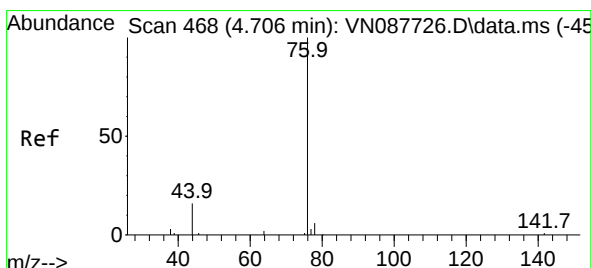
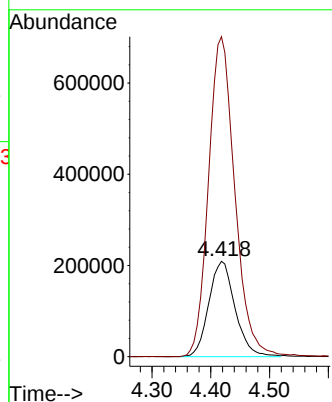
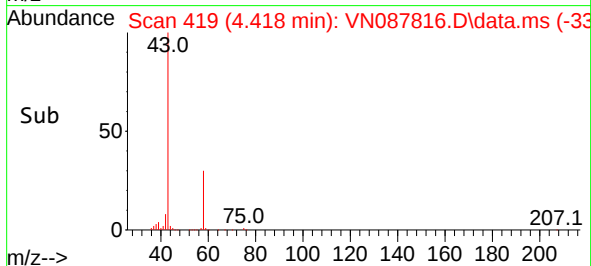
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 58 Resp: 65049
Ion Ratio Lower Upper
58 100
43 335.1 250.6 376.0

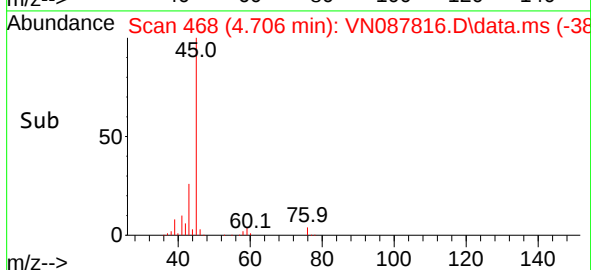
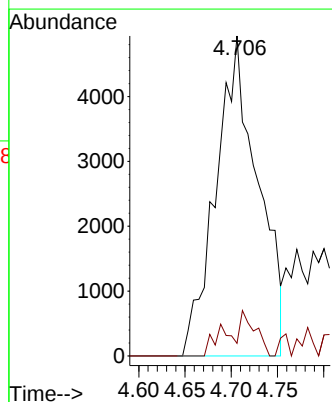
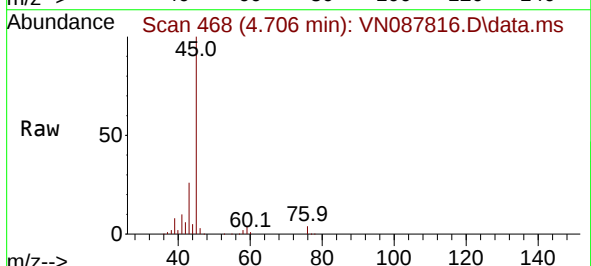
Manual Integrations
APPROVED

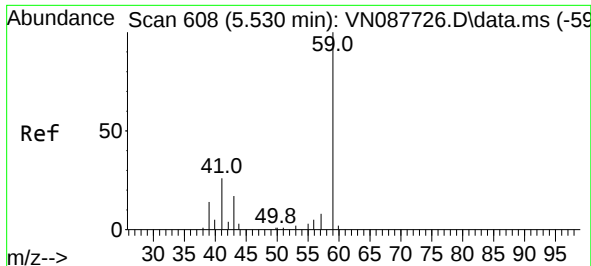
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#16
Carbon Disulfide
Concen: 1.695 ug/l m
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

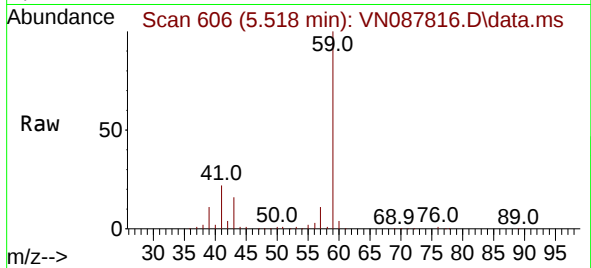
Tgt Ion: 76 Resp: 15578
Ion Ratio Lower Upper
76 100
78 4.0 5.0 7.6#





#23
tert-Butyl Alcohol
Concen: 3961.284 ug/l
RT: 5.518 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

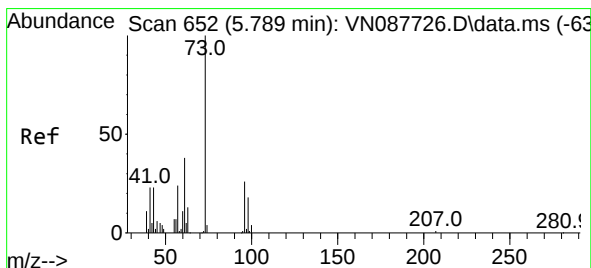
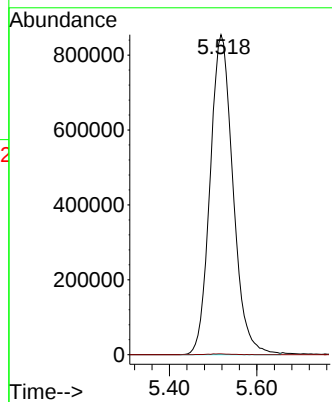
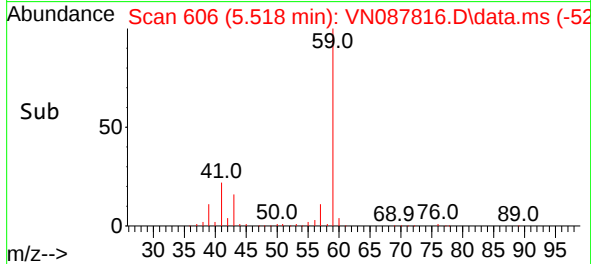
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 59 Resp: 3109972
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0

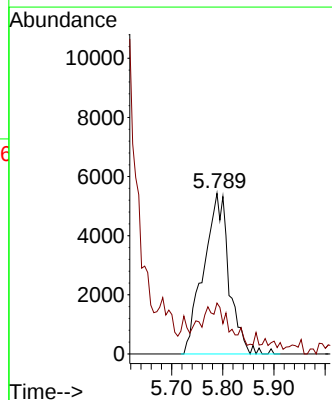
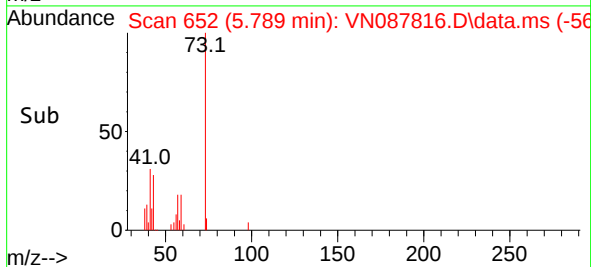
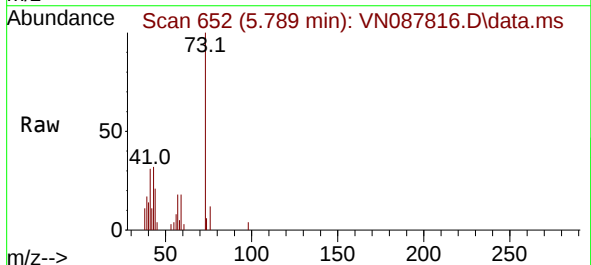
Manual Integrations
APPROVED

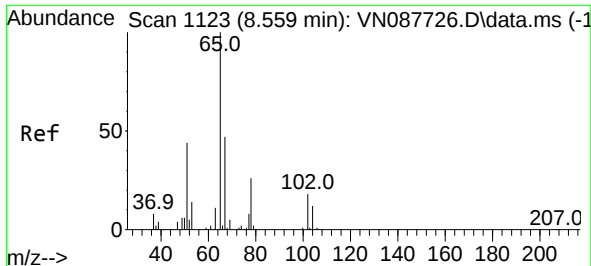
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#24
Methyl tert-Butyl Ether
Concen: 1.568 ug/l m
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

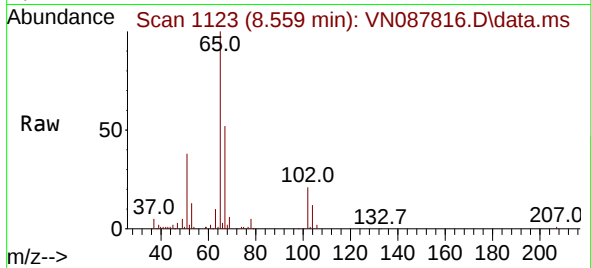
Tgt Ion: 73 Resp: 18741
Ion Ratio Lower Upper
73 100
43 14.9 16.8 25.2





#27
1,2-Dichloroethane-d4
Concen: 30.048 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

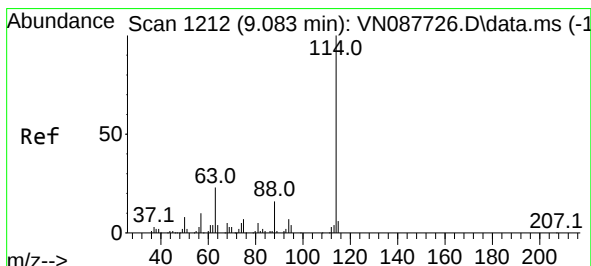
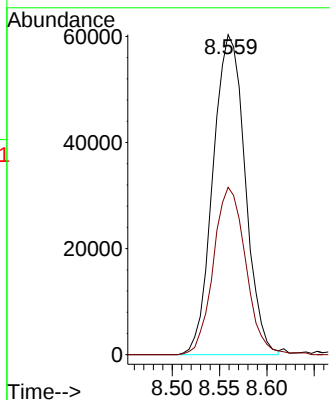
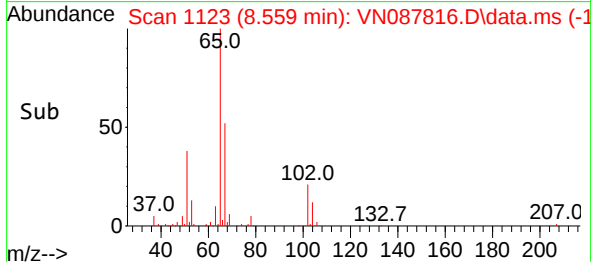
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



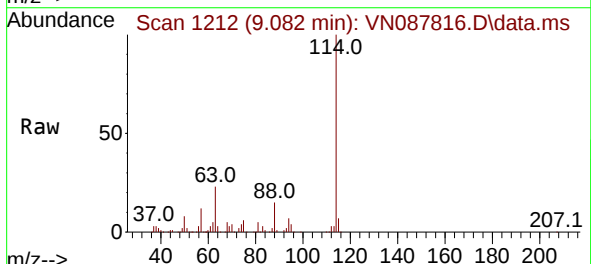
Tgt Ion: 65 Resp: 142320
Ion Ratio Lower Upper
65 100
67 52.5 39.6 59.4

Manual Integrations
APPROVED

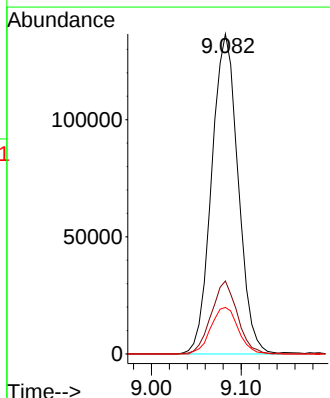
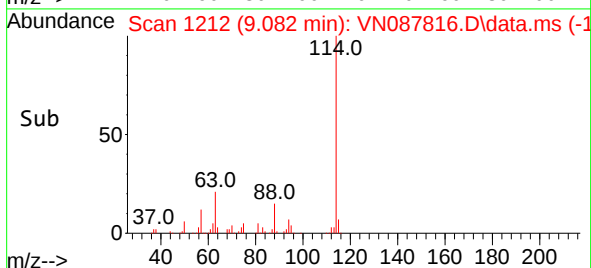
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

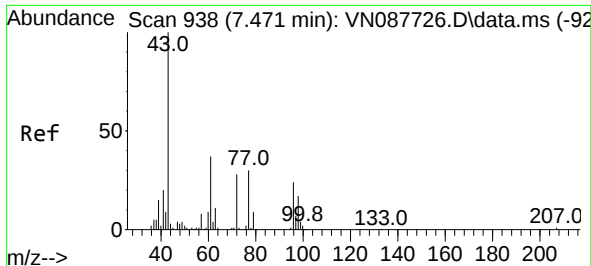


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40



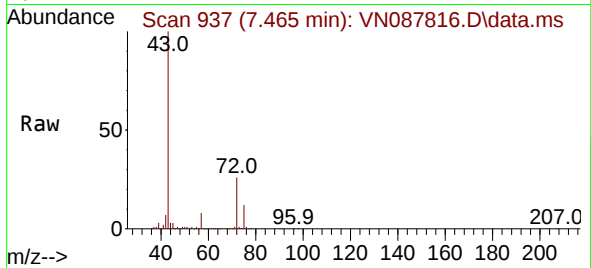
Tgt Ion:114 Resp: 279587
Ion Ratio Lower Upper
114 100
63 22.5 18.3 27.5
88 15.0 12.4 18.6





#30
2-Butanone
Concen: 1132.450 ug/l
RT: 7.465 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

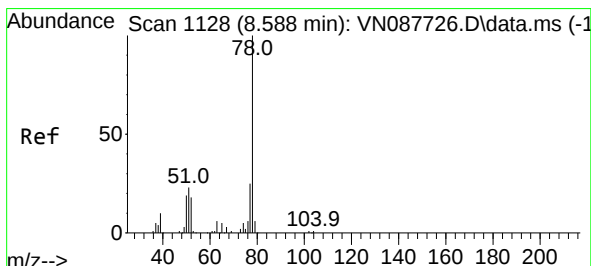
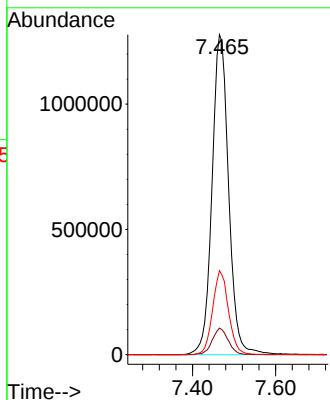
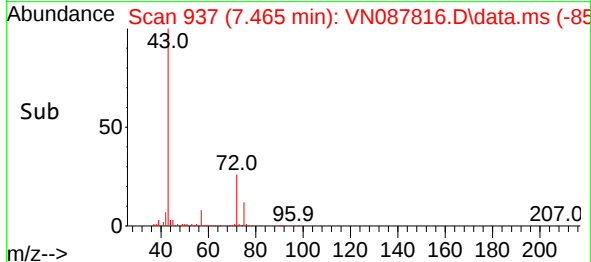
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 43 Resp: 3544664
Ion Ratio Lower Upper
43 100
57 8.0 6.3 9.5
72 25.1 21.4 32.2

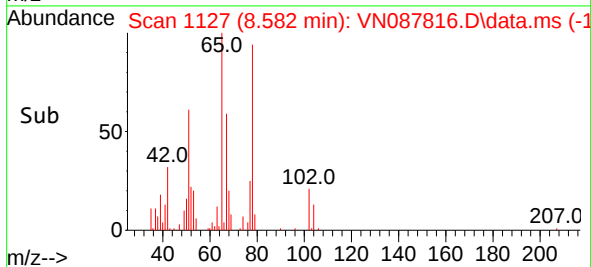
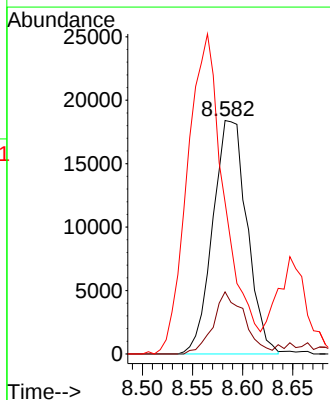
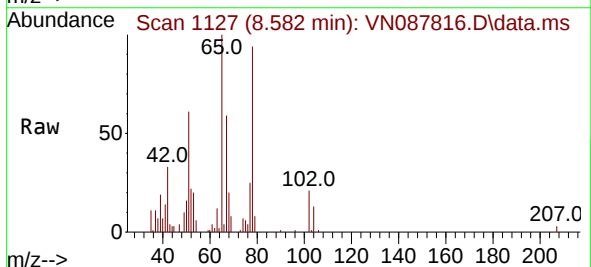
Manual Integrations
APPROVED

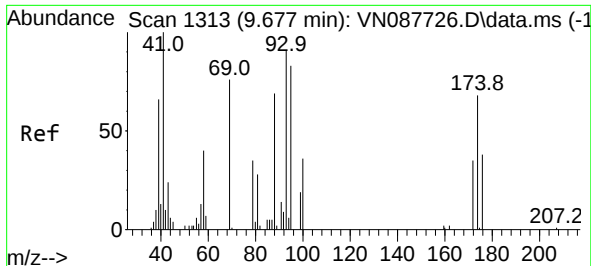
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#34
Benzene
Concen: 2.979 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

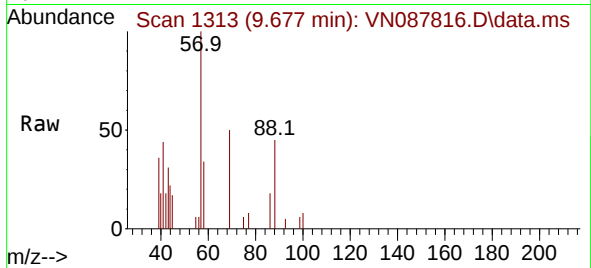
Tgt Ion: 78 Resp: 43742
Ion Ratio Lower Upper
78 100
77 26.6 20.3 30.5
51 36.9 18.0 27.0#





#45
1,4-Dioxane
Concen: 65.719 ug/l m
RT: 9.677 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

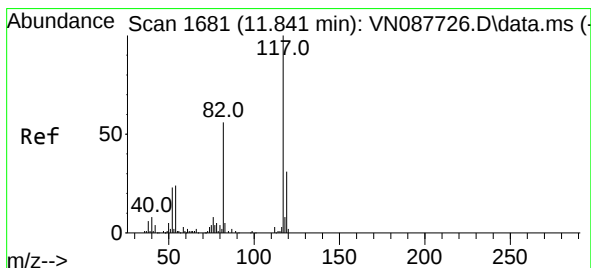
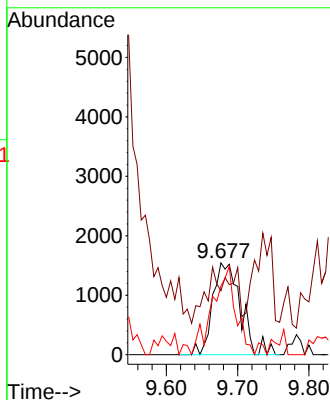
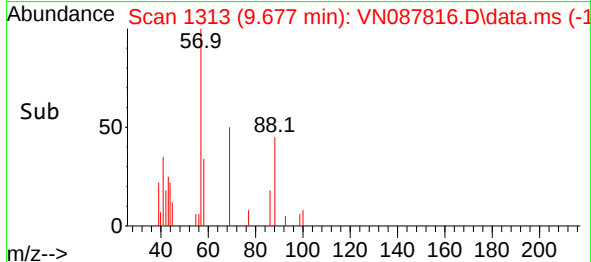
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 88 Resp: 415
Ion Ratio Lower Upper
88 100
43 20.1 23.6 35.4
58 73.6 60.5 90.7

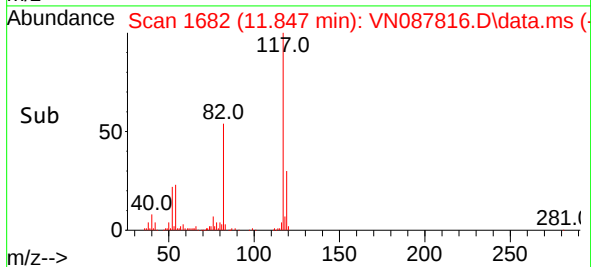
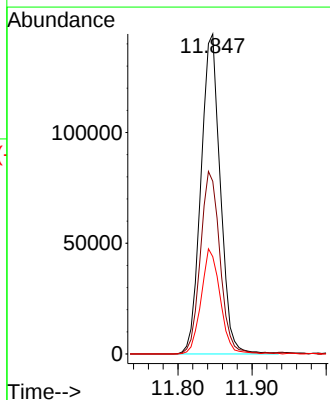
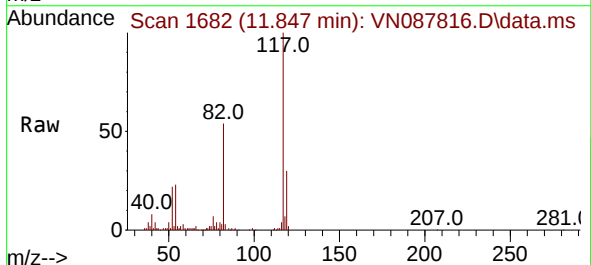
Manual Integrations
APPROVED

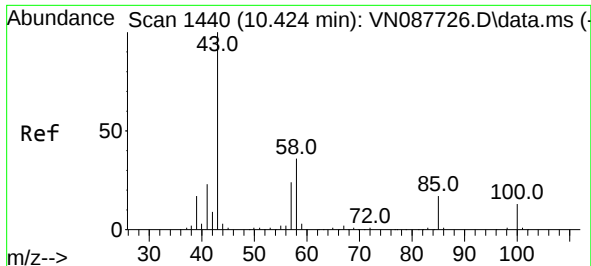
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:117 Resp: 261896
Ion Ratio Lower Upper
117 100
82 57.8 45.9 68.9
119 32.3 25.3 37.9





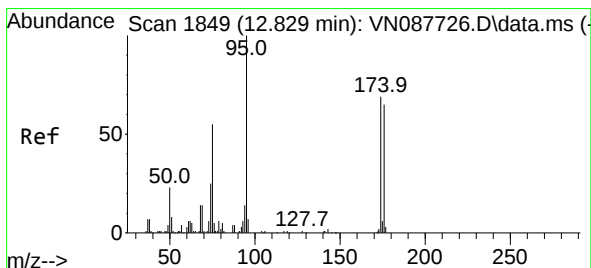
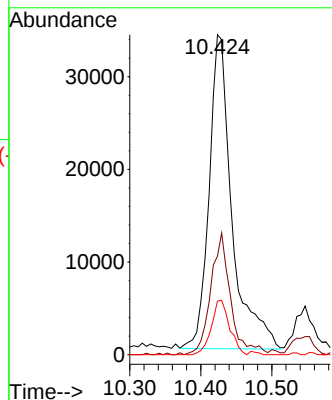
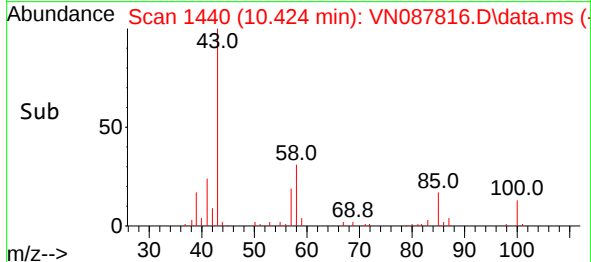
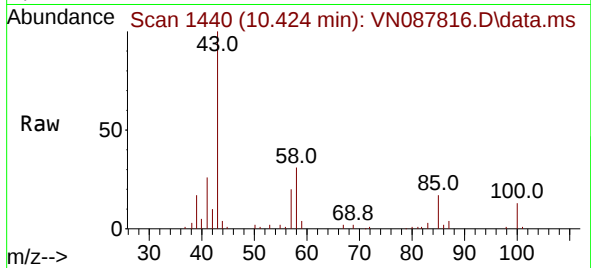
#58
4-Methyl-2-Pentanone
Concen: 12.307 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Instrument : MSVOA_N
ClientSampleId : 250910074-01-VOA

Tgt Ion: 43 Resp: 76210
Ion Ratio Lower Upper
43 100
58 31.8 29.6 44.4
85 13.7 13.0 19.4

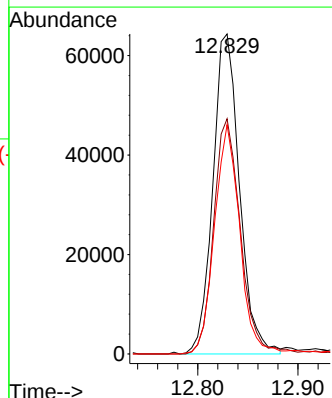
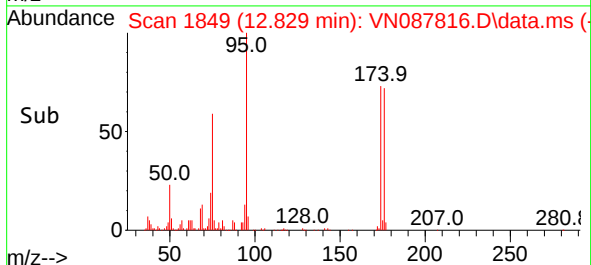
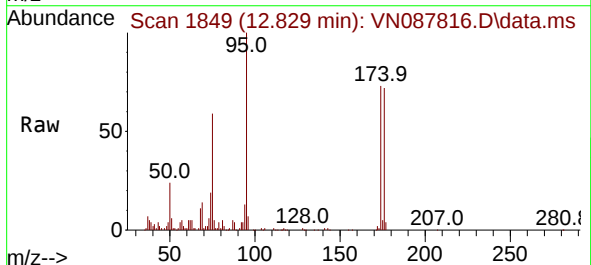
Manual Integrations
APPROVED

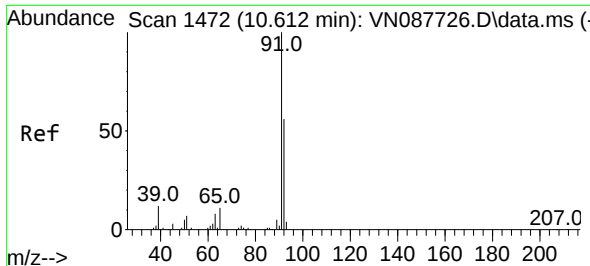
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#60
4-Bromofluorobenzene
Concen: 28.244 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

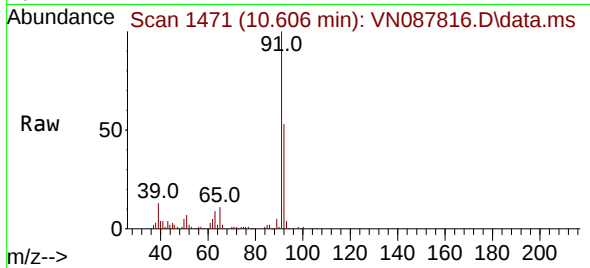
Tgt Ion: 95 Resp: 118936
Ion Ratio Lower Upper
95 100
174 73.6 55.4 83.0
176 67.8 51.5 77.3





#62
Toluene
Concen: 6.893 ug/l
RT: 10.606 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

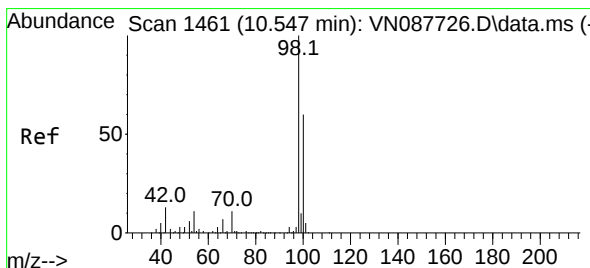
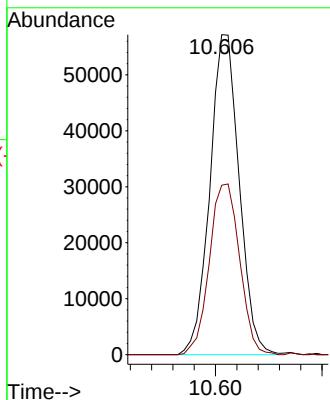
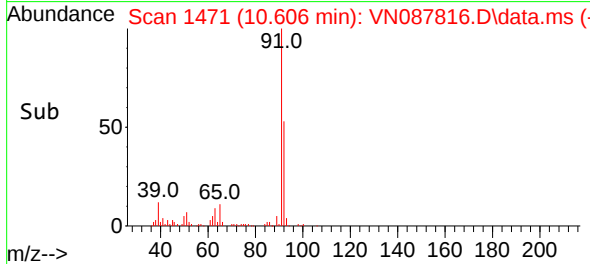
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion: 91 Resp: 109194
Ion Ratio Lower Upper
91 100
92 55.0 45.4 68.0

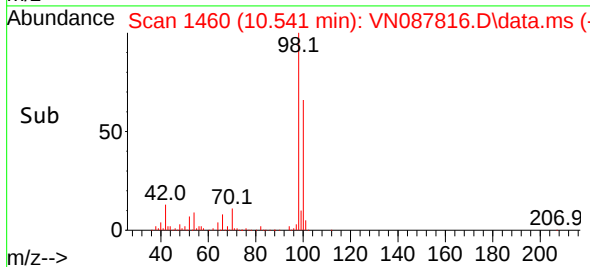
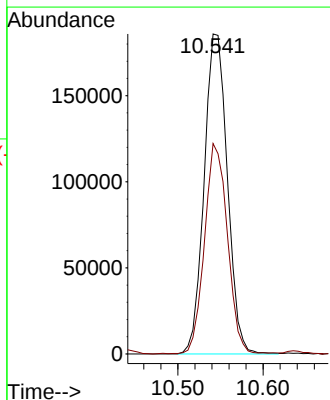
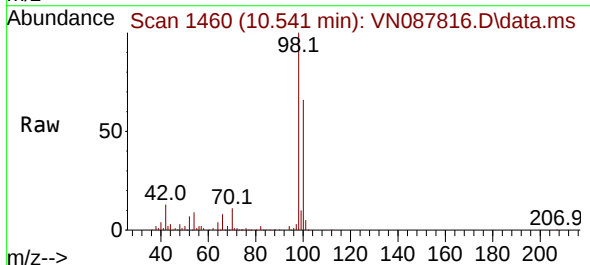
Manual Integrations
APPROVED

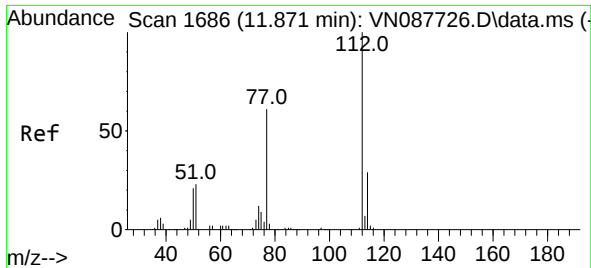
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#63
Toluene-d8
Concen: 28.907 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

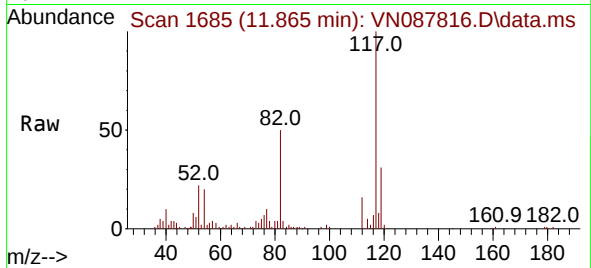
Tgt Ion: 98 Resp: 352072
Ion Ratio Lower Upper
98 100
100 64.8 50.6 76.0





#64
Chlorobenzene
Concen: 1.166 ug/l
RT: 11.865 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

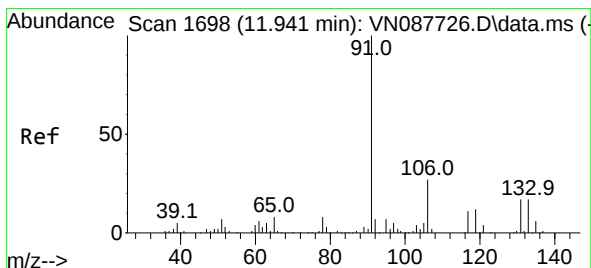
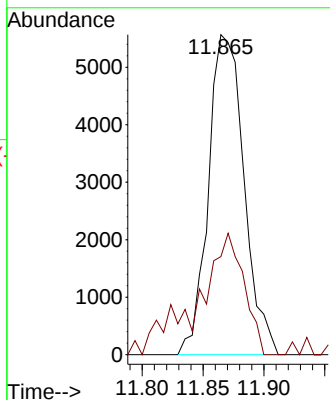
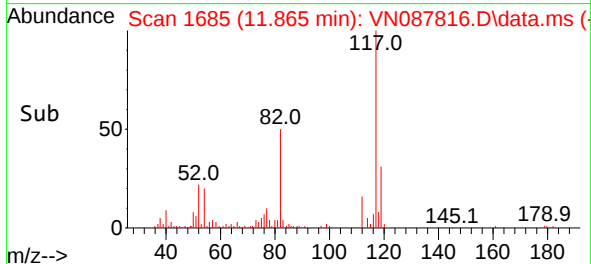
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion:112 Resp: 1133
Ion Ratio Lower Upper
112 100
114 30.6 23.5 35.3

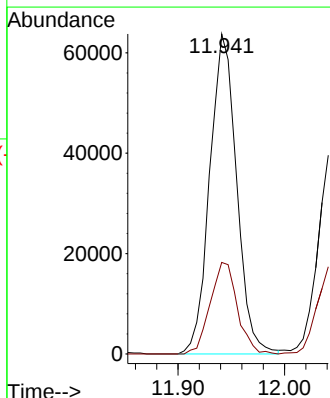
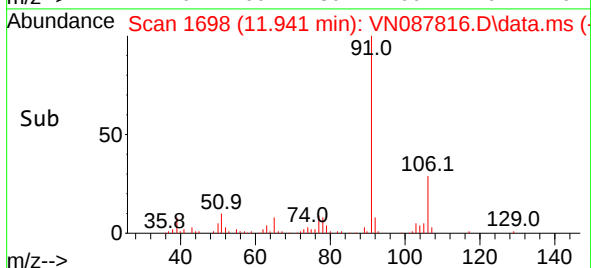
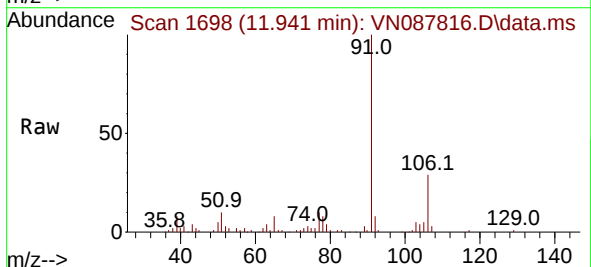
Manual Integrations
APPROVED

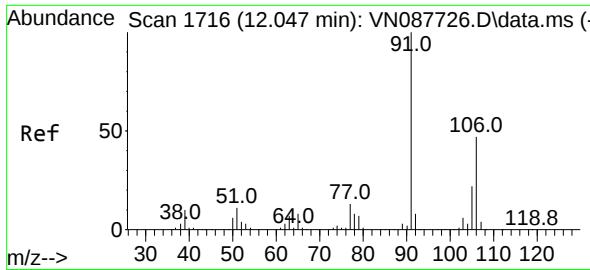
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#66
Ethyl Benzene
Concen: 6.542 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 91 Resp: 111813
Ion Ratio Lower Upper
91 100
106 28.6 21.3 31.9





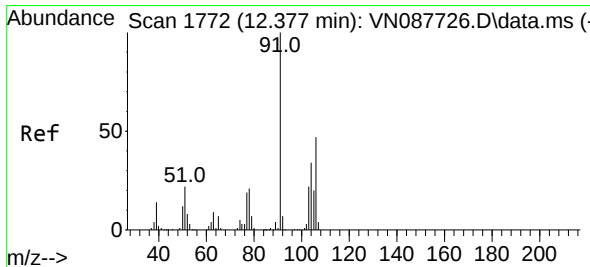
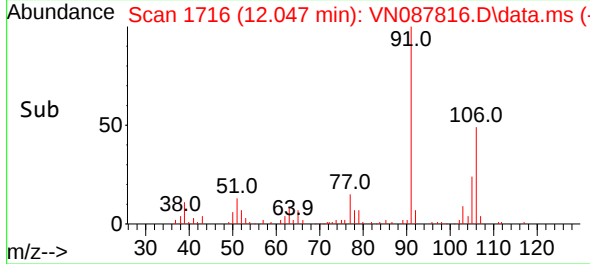
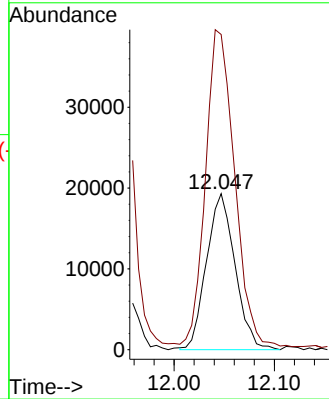
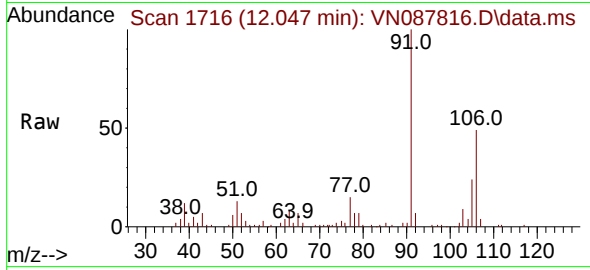
#67
m/p-Xylenes
Concen: 6.028 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Tgt Ion:106 Resp: 38249
Ion Ratio Lower Upper
106 100
91 201.6 174.3 261.5

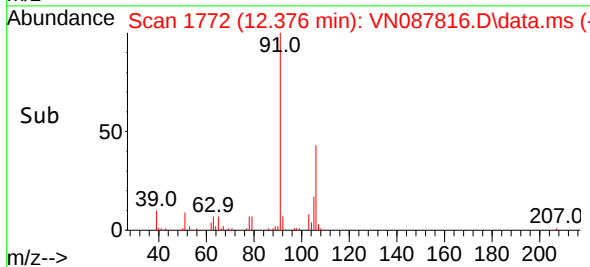
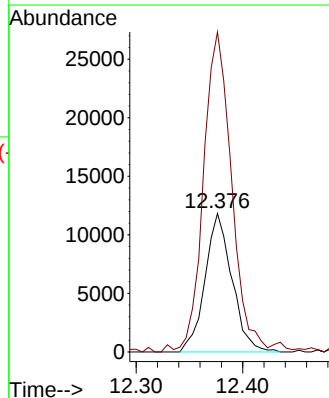
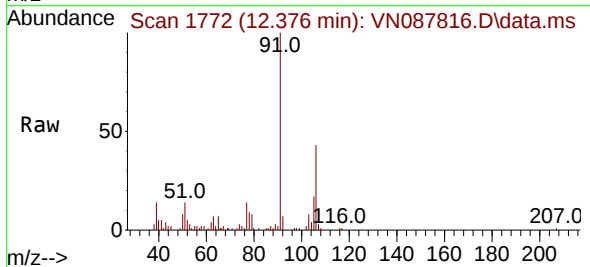
Manual Integrations
APPROVED

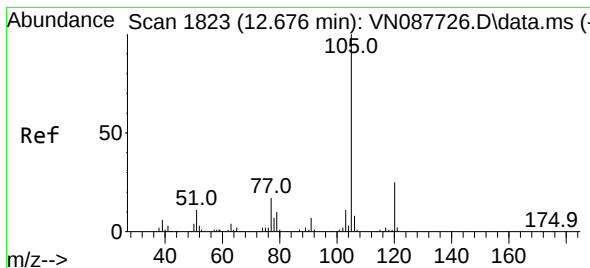
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#68
o-Xylene
Concen: 3.378 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:106 Resp: 20779
Ion Ratio Lower Upper
106 100
91 237.6 107.7 323.3





#70

Isopropylbenzene

Concen: 0.693 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. -0.000 min

Lab File: VN087816.D

Acq: 12 Sep 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

250910074-01-VOA

Tgt Ion:105 Resp: 1081

Ion Ratio Lower Upper

105 100

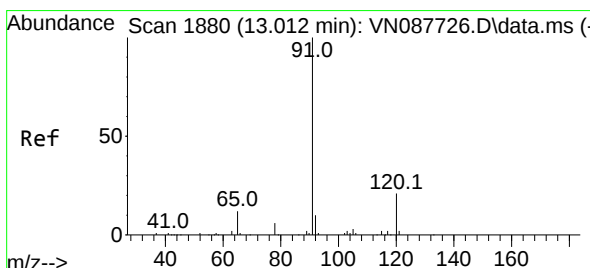
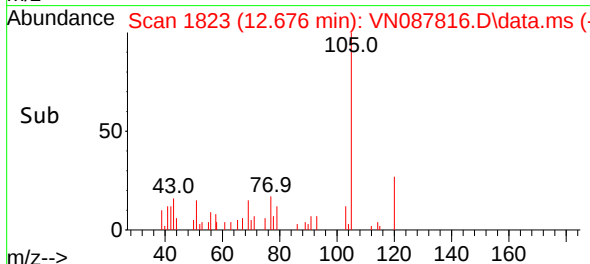
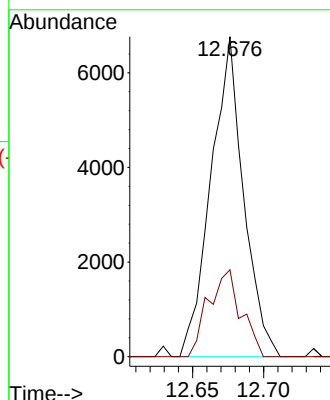
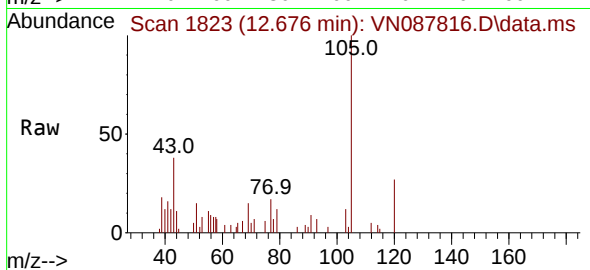
120 27.2 17.4 32.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025

Supervised By :Mahesh Dadoda 09/15/2025



#74

n-propylbenzene

Concen: 0.448 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VN087816.D

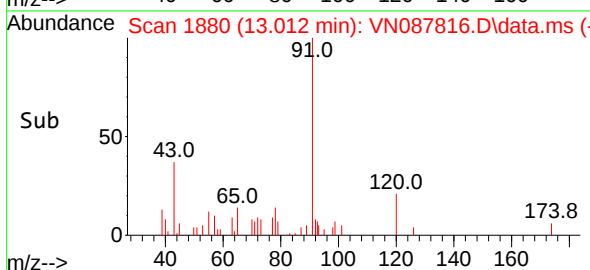
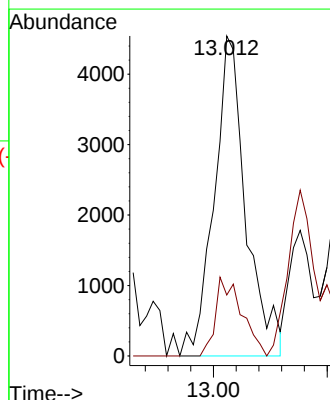
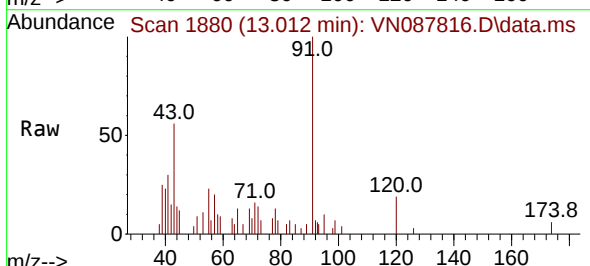
Acq: 12 Sep 2025 12:40

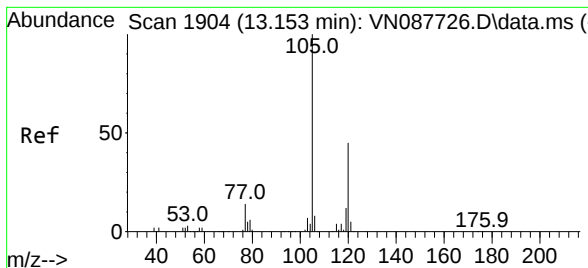
Tgt Ion: 91 Resp: 8823

Ion Ratio Lower Upper

91 100

120 20.3 0.0 42.2





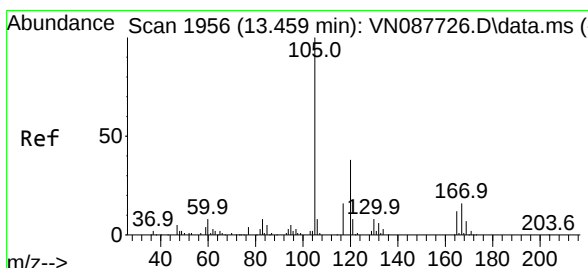
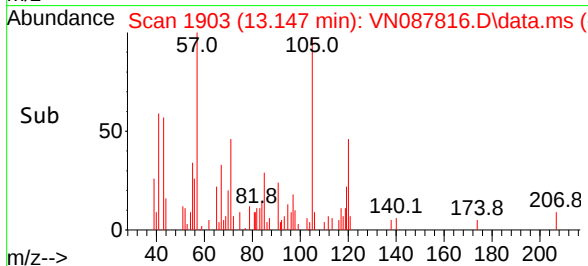
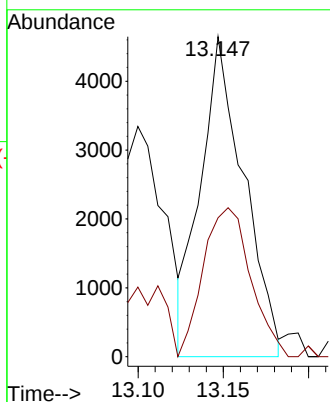
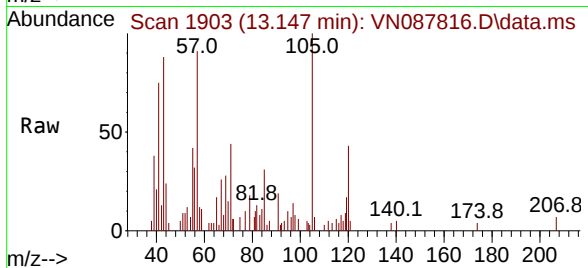
#76
1,3,5-Trimethylbenzene
Concen: 0.623 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Tgt Ion:105 Resp: 8210
Ion Ratio Lower Upper
105 100
120 50.9 0.0 92.6

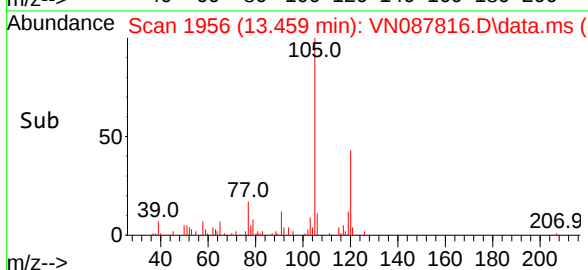
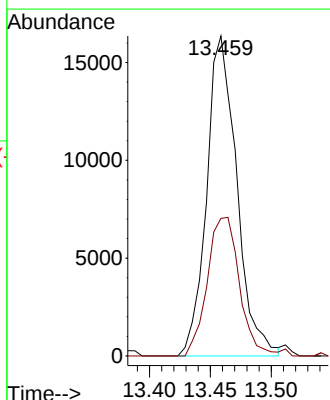
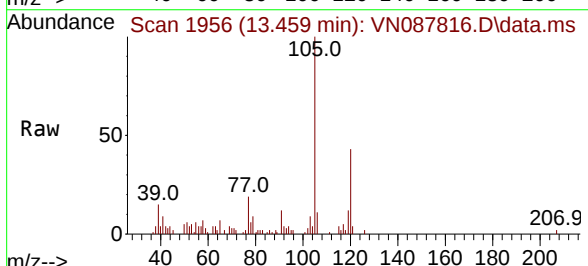
Manual Integrations
APPROVED

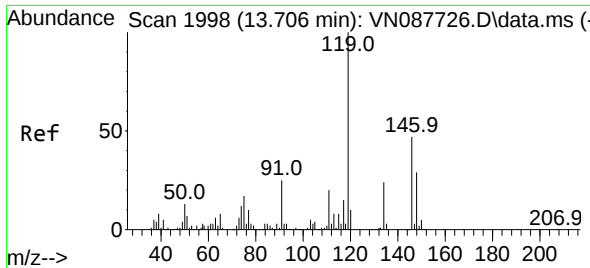
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



#80
1,2,4-Trimethylbenzene
Concen: 2.087 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

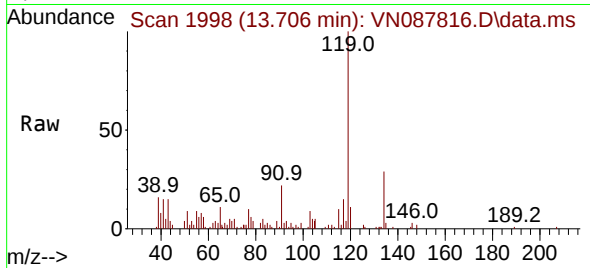
Tgt Ion:105 Resp: 28180
Ion Ratio Lower Upper
105 100
120 46.2 0.0 86.6





#82
p-Isopropyltoluene
Concen: 2.186 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

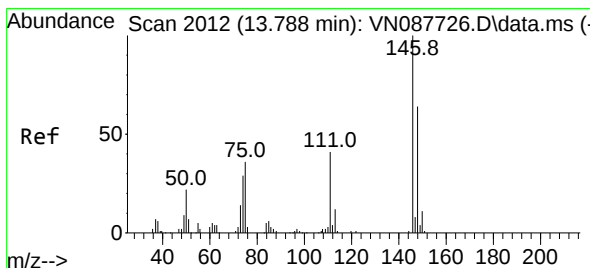
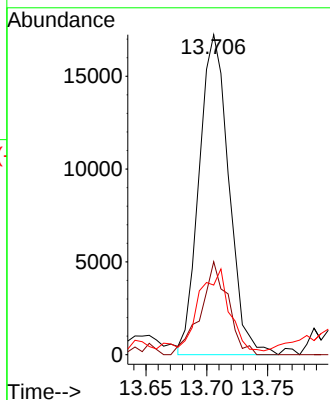
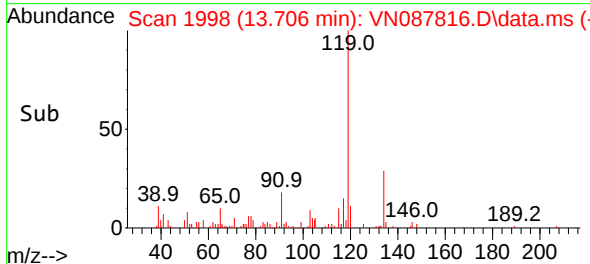
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



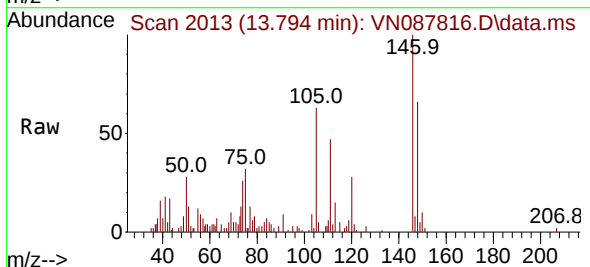
Tgt Ion:119 Resp: 29215
Ion Ratio Lower Upper
119 100
134 26.7 0.0 49.4
91 11.7 0.0 52.2

Manual Integrations
APPROVED

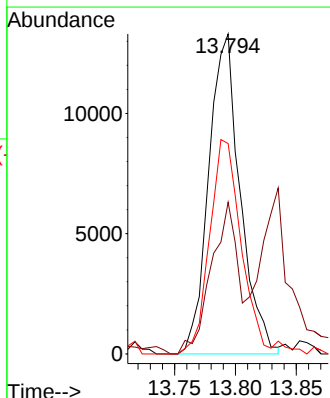
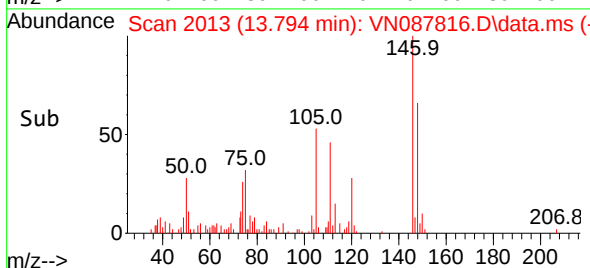
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

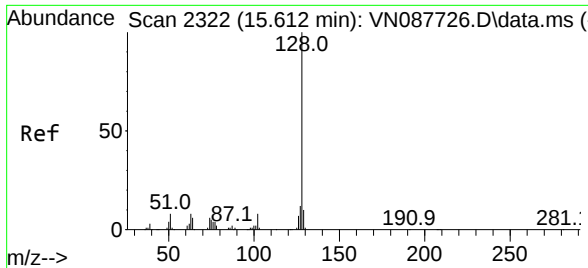


#84
1,4-Dichlorobenzene
Concen: 3.242 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40



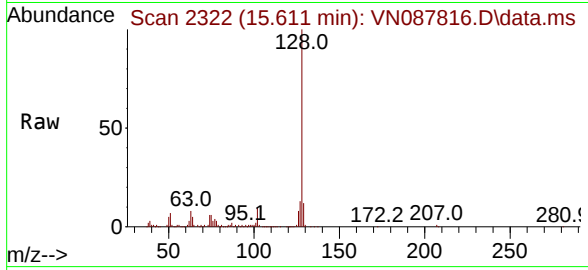
Tgt Ion:146 Resp: 23903
Ion Ratio Lower Upper
146 100
111 39.5 20.2 60.5
148 66.7 31.5 94.5





#91
Naphthalene
Concen: 20.608 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA



Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.4
129	11.3	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

