

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041981.D
 Acq On : 10 Feb 2025 11:33
 Operator : SY/MD
 Sample : Q1302-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:20:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156381	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	422629	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	363227	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	279165	9.758	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	3374	0.367	ppbv #	83
13) Ethanol	1.725	45	1630m	2.421	ppbv	
15) Acetone	1.832	43	290769	15.481	ppbv	99
16) 1,3-Butadiene	1.606	39	1832	0.217	ppbv #	66
17) tert-Butyl alcohol	2.043	59	2741	0.119	ppbv #	36
19) Isopropyl Alcohol	1.887	45	4439	0.399	ppbv #	1
20) Methylene Chloride	2.059	84	1515	0.204	ppbv #	69
26) Hexane	2.826	57	2334	0.117	ppbv #	38
30) Cyclohexane	3.852	84	2653m	0.153	ppbv	
32) 1,1,1-Trichloroethane	3.363	97	1119m	0.037	ppbv	
34) 2-Butanone	2.560	43	45506	1.693	ppbv	99
36) Benzene	3.654	78	5874	0.152	ppbv #	92
41) Tetrahydrofuran	3.069	42	1845m	0.126	ppbv	
50) 4-Methyl-2-Pentanone	5.768	43	10505m	0.286	ppbv	
51) 2-Hexanone	7.441	43	6514m	0.231	ppbv	
52) Tetrachloroethene	8.218	164	715m	0.053	ppbv	
53) Toluene	6.930	91	41753	0.989	ppbv	99

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

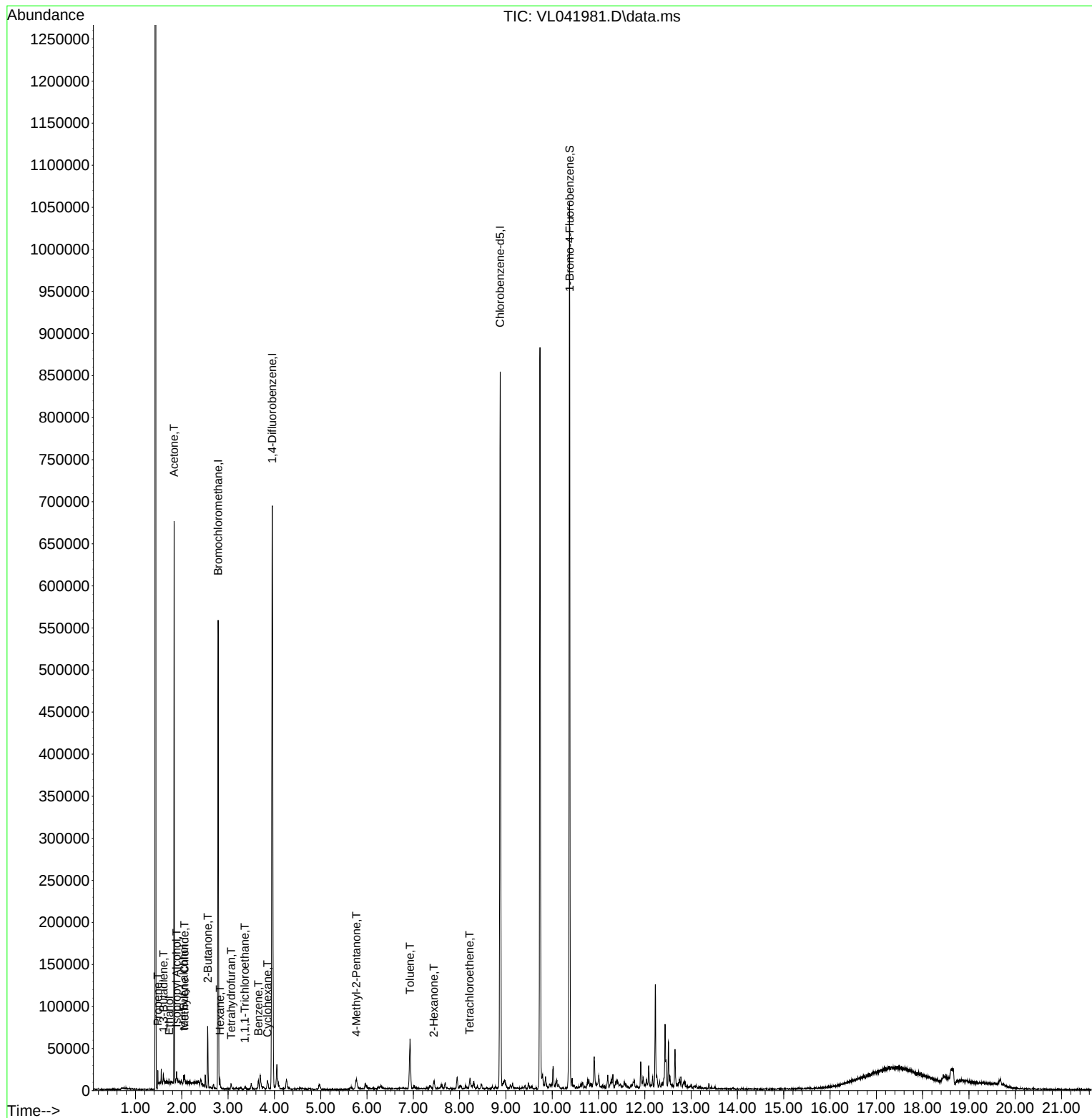
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041981.D
Acq On : 10 Feb 2025 11:33
Operator : SY/MD
Sample : Q1302-01DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

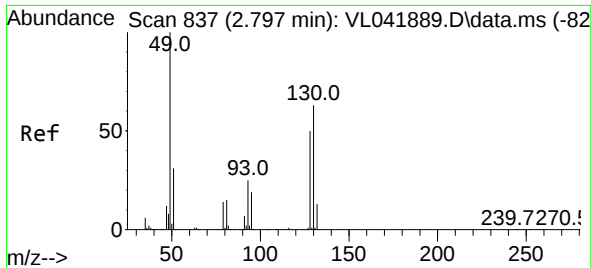
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Feb 11 01:20:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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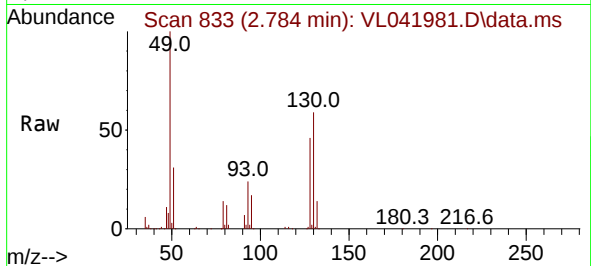
Reviewed By : Semsettin Yesilyurt 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

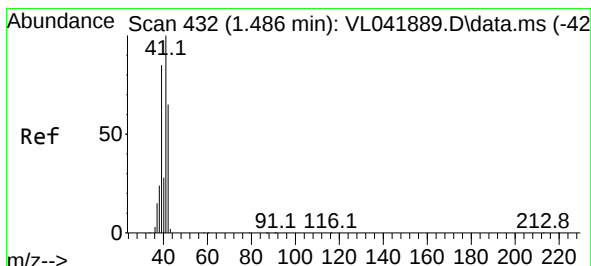
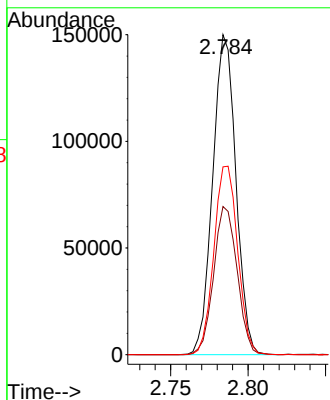
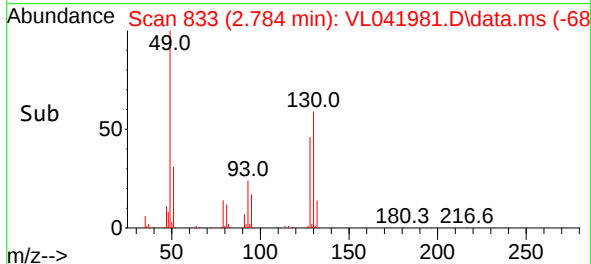
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



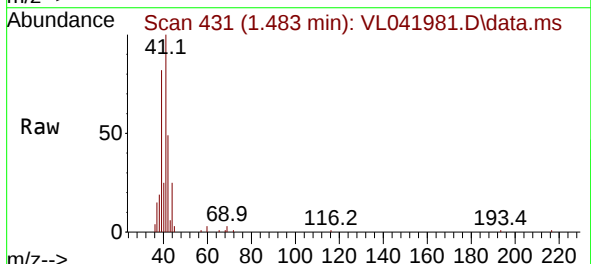
Tgt Ion: 49 Resp: 15638
Ion Ratio Lower Upper
49 100
128 46.9 24.3 73.0
130 60.5 31.1 93.2

Manual Integrations
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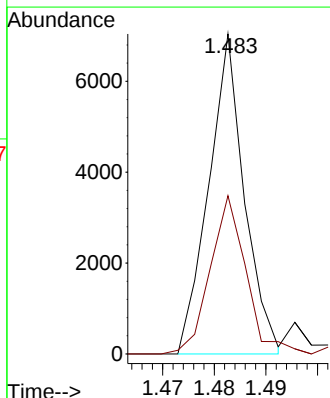
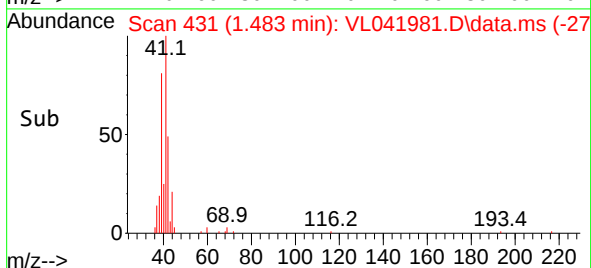
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

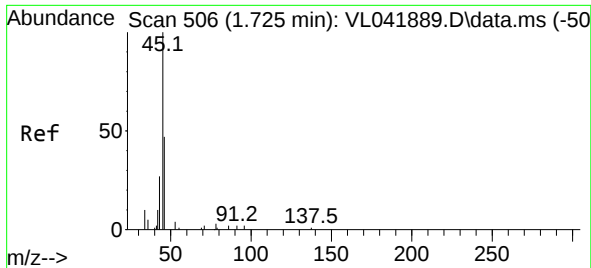


#9
Propene
Concen: 0.367 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33



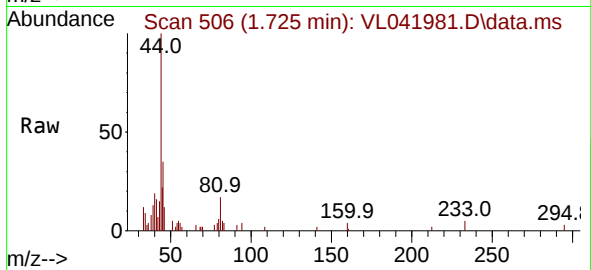
Tgt Ion: 41 Resp: 3374
Ion Ratio Lower Upper
41 100
42 51.4 52.0 78.0#





#13
Ethanol
Concen: 2.421 ppbv m
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

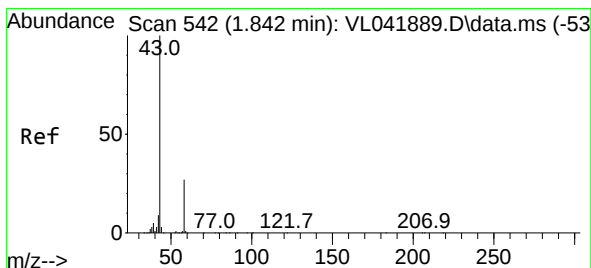
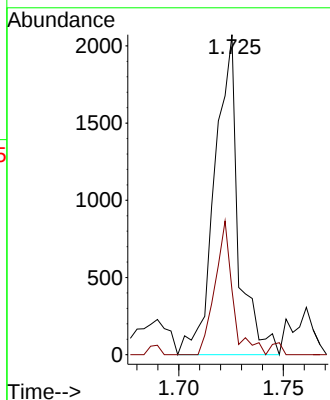
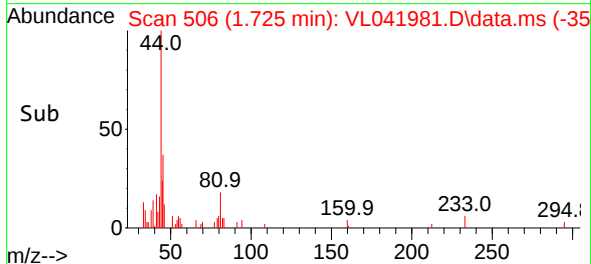
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



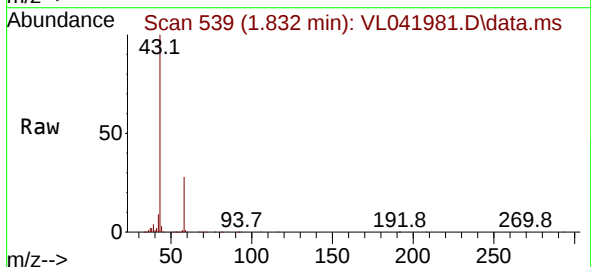
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Ion Ratio Lower Upper
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46 0.0 18.1 72.5

Manual Integrations
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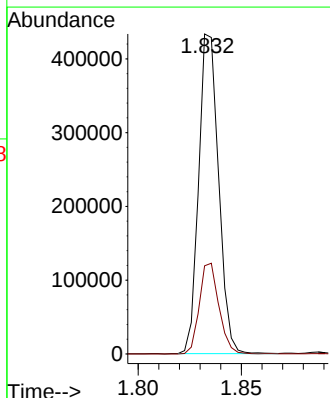
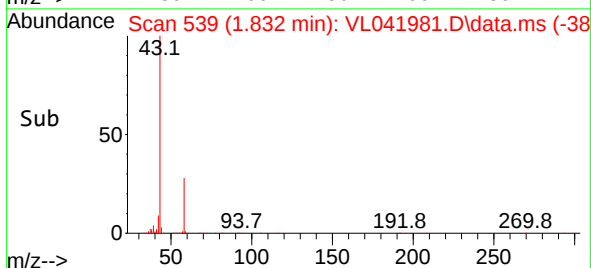
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

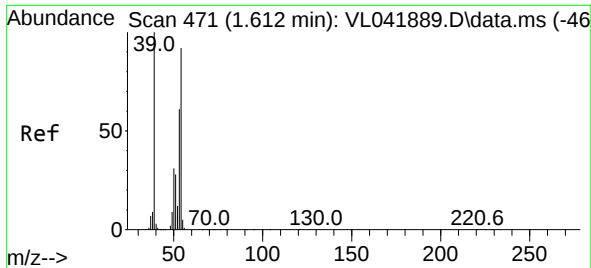


#15
Acetone
Concen: 15.481 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33



Tgt Ion: 43 Resp: 290769
Ion Ratio Lower Upper
43 100
58 28.0 21.9 32.9





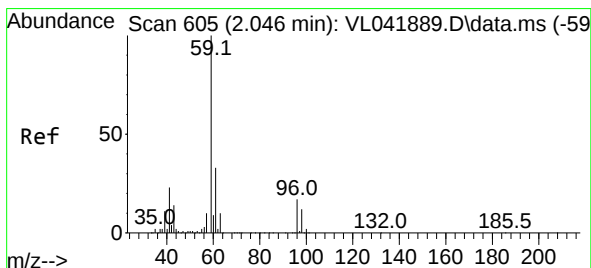
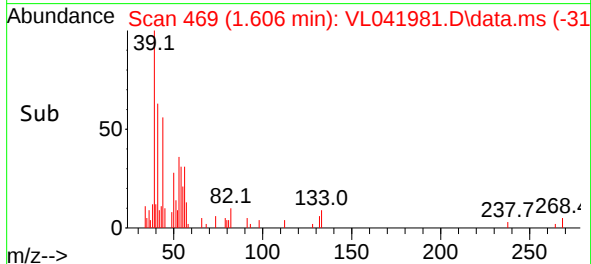
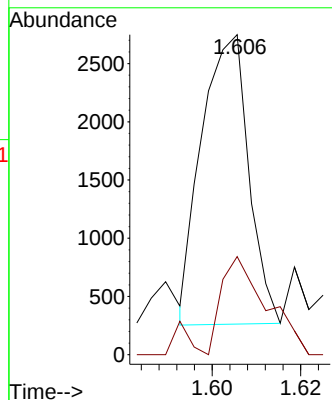
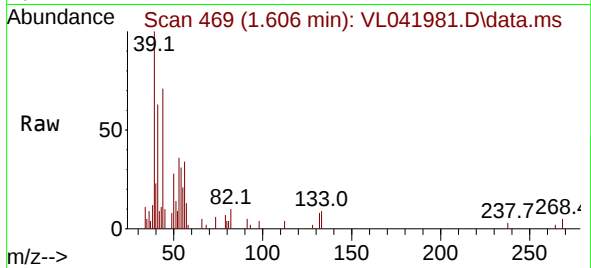
#16
1,3-Butadiene
Concen: 0.217 ppbv
RT: 1.606 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 39 Resp: 1832
Ion Ratio Lower Upper
39 100
54 47.9 61.6 92.4

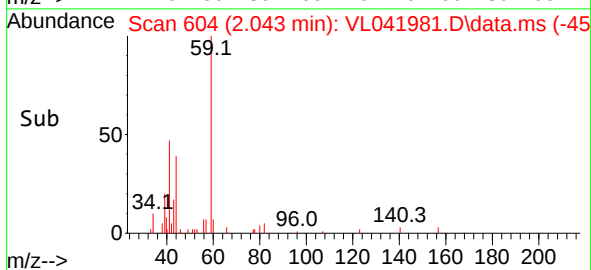
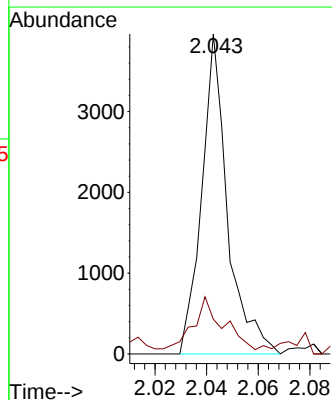
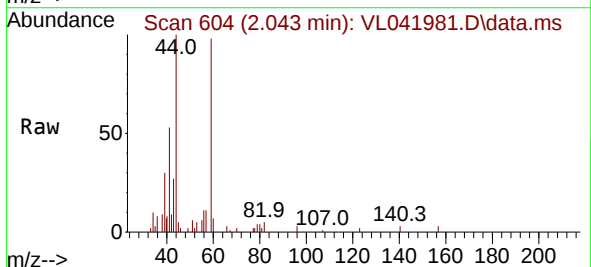
Manual Integrations
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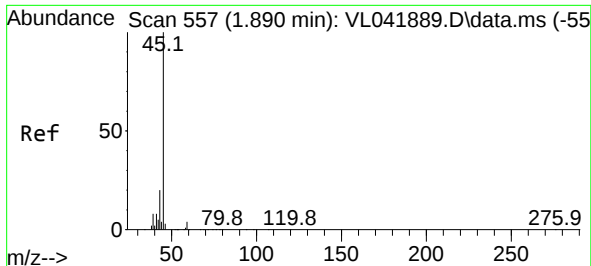
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.119 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

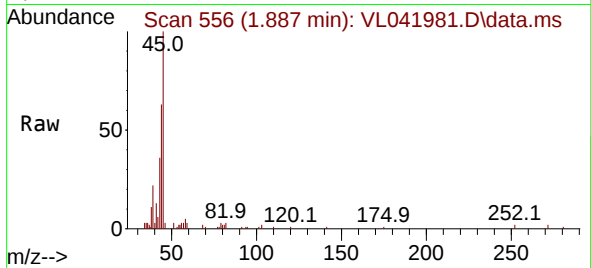
Tgt Ion: 59 Resp: 2741
Ion Ratio Lower Upper
59 100
57 33.4 7.8 11.8





#19
Isopropyl Alcohol
Concen: 0.399 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

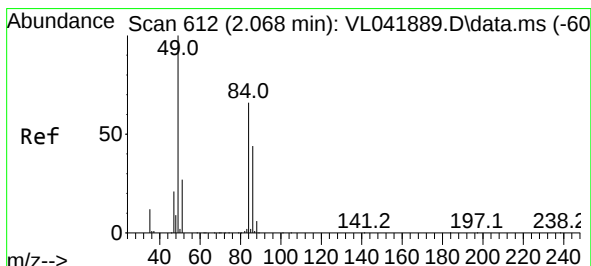
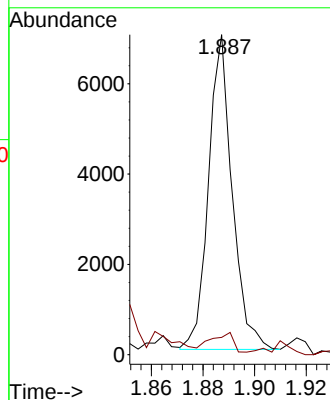
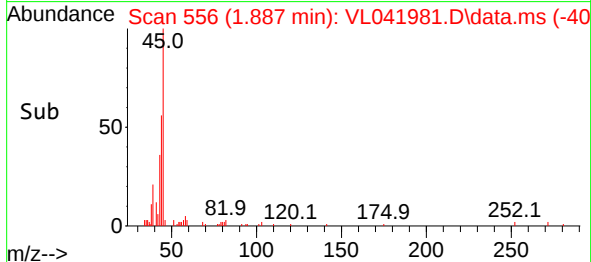
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
58 1846.6 35.0 52.0

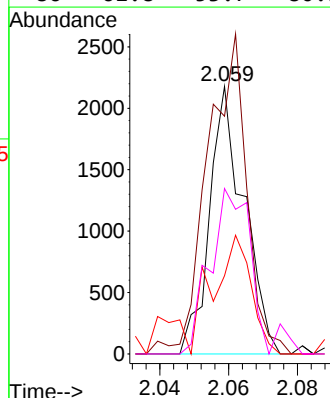
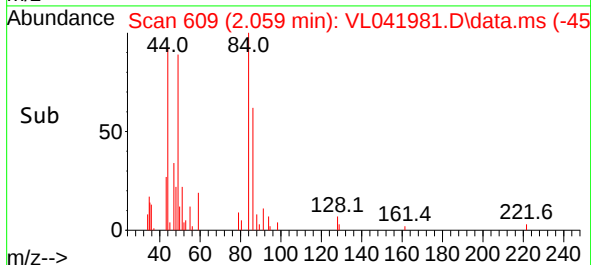
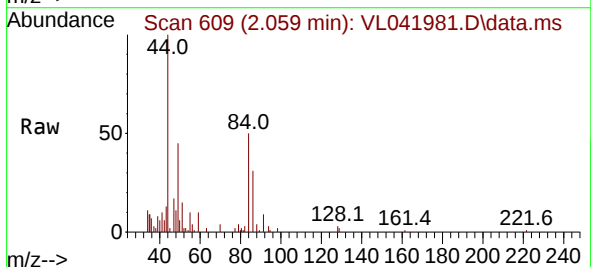
Manual Integrations
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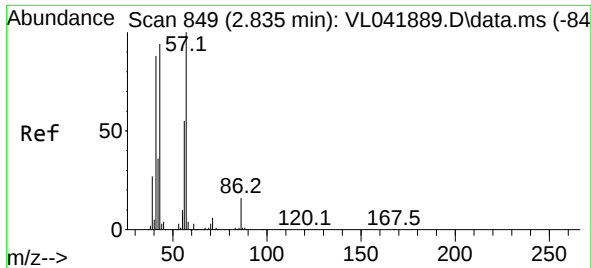
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 0.204 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

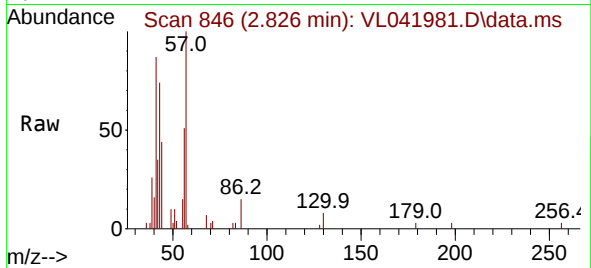
Tgt Ion: 84 Resp: 1515
Ion Ratio Lower Upper
84 100
49 96.9 123.1 184.7#
51 29.2 35.8 53.8#
86 61.8 53.7 80.5





#26
Hexane
Concen: 0.117 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

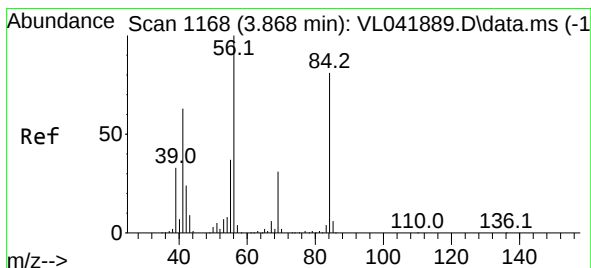
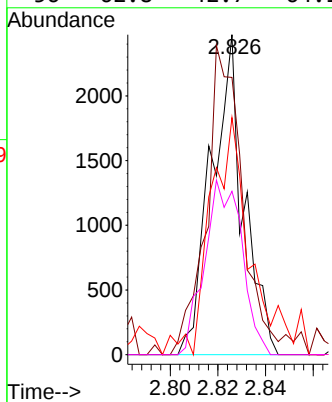
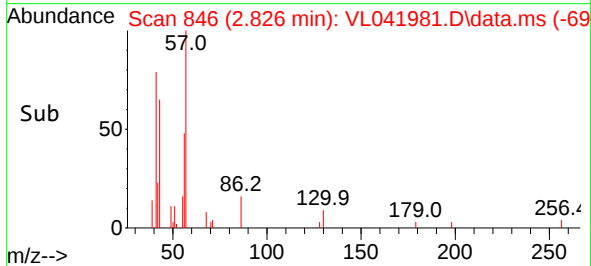
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



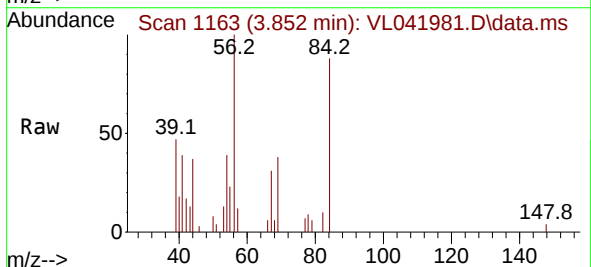
Tgt Ion: 57 Resp: 2334
Ion Ratio Lower Upper
57 100
41 117.8 73.8 110.8
43 98.0 197.3 295.9
56 62.8 42.7 64.1

Manual Integrations
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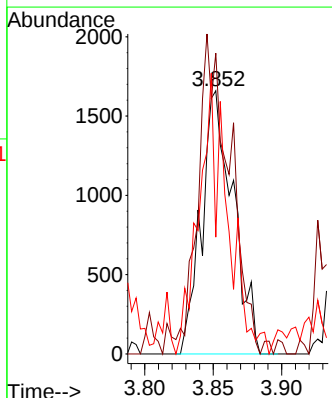
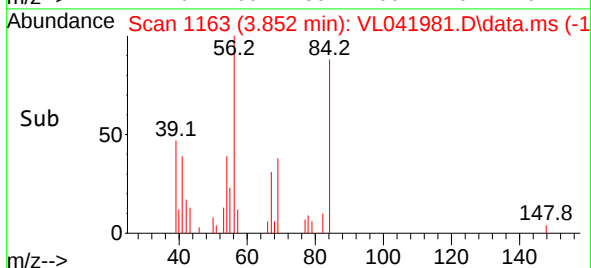
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

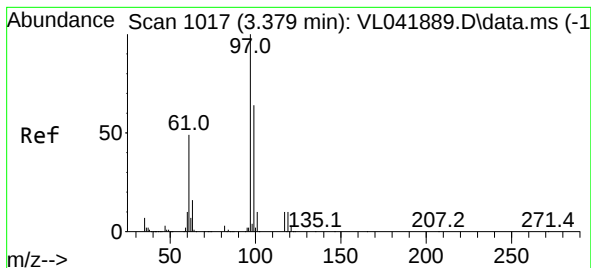


#30
Cyclohexane
Concen: 0.153 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.016 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33



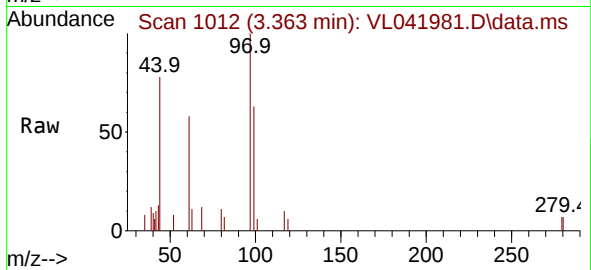
Tgt Ion: 84 Resp: 2653
Ion Ratio Lower Upper
84 100
56 131.5 99.3 148.9
41 97.5 64.3 96.5





#32
 1,1,1-Trichloroethane
 Concen: 0.037 ppbv m
 RT: 3.363 min Scan# 1119
 Delta R.T. -0.016 min
 Lab File: VL041981.D
 Acq: 10 Feb 2025 11:33

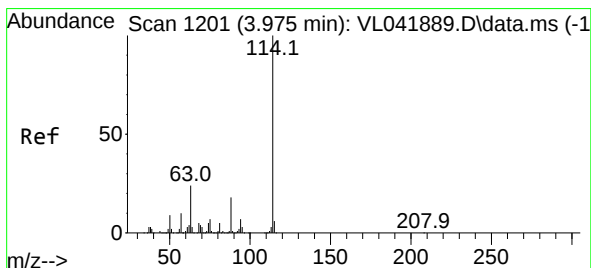
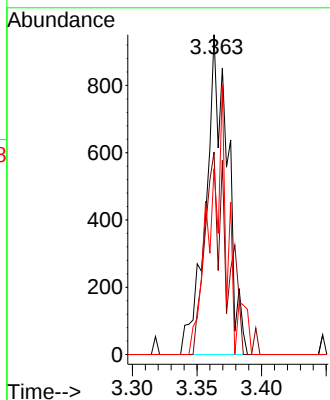
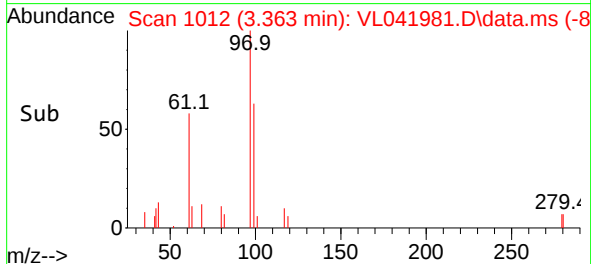
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



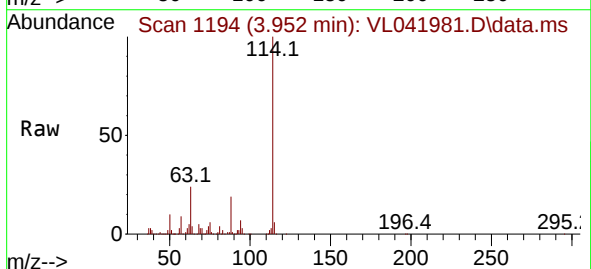
Tgt Ion: 97 Resp: 1119
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.1 76.7
 61 68.2 39.0 58.6

Manual Integrations
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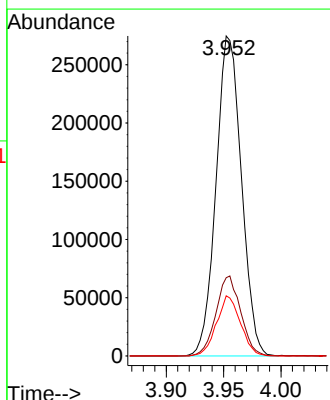
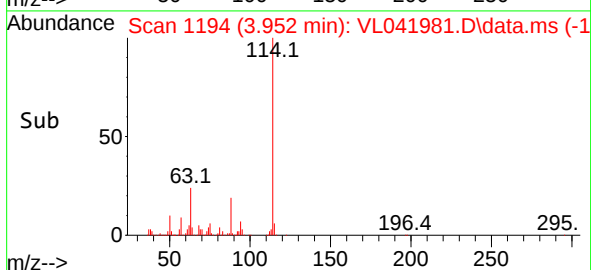
Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

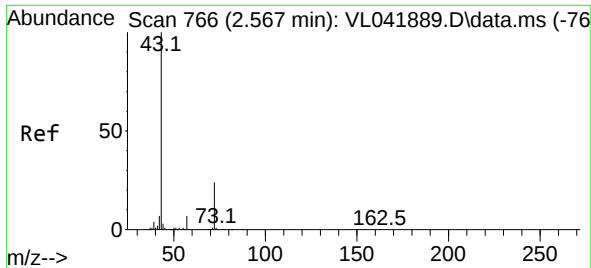


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.023 min
 Lab File: VL041981.D
 Acq: 10 Feb 2025 11:33



Tgt Ion:114 Resp: 422629
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.8 29.6
 88 17.7 14.4 21.6





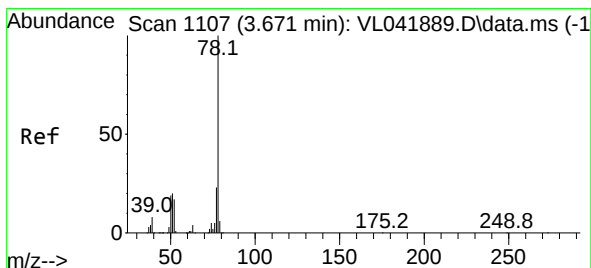
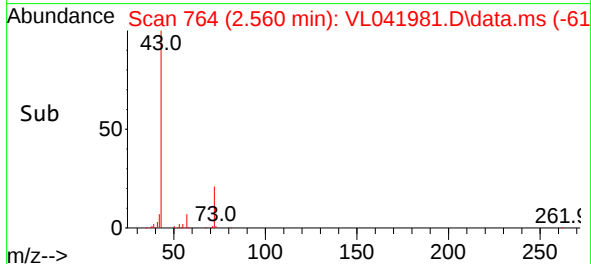
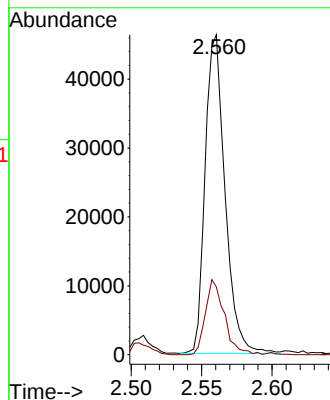
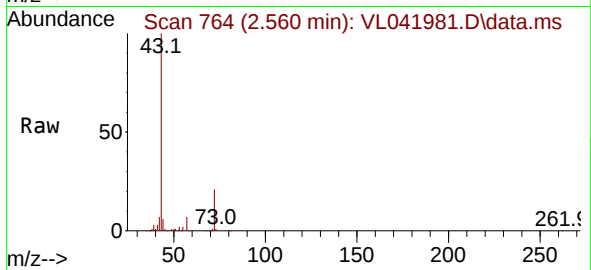
#34
2-Butanone
Concen: 1.693 ppbv
RT: 2.560 min Scan# 766
Delta R.T. -0.006 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 43 Resp: 45500
Ion Ratio Lower Upper
43 100
72 22.7 18.6 28.0

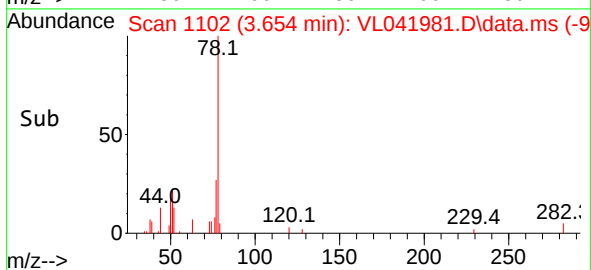
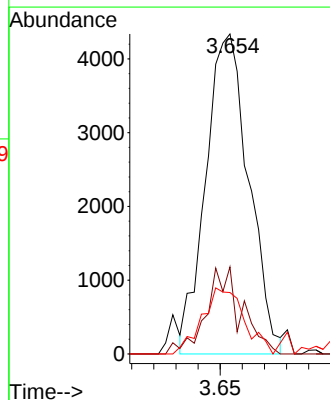
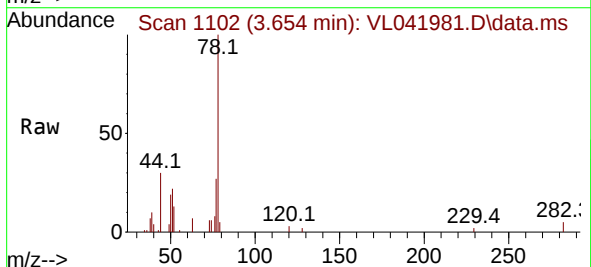
Manual Integrations
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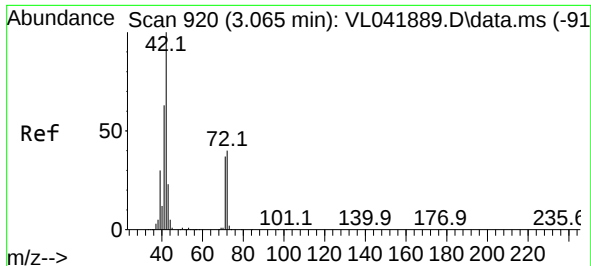
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#36
Benzene
Concen: 0.152 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.016 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

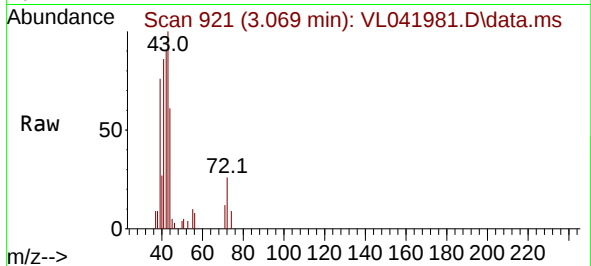
Tgt Ion: 78 Resp: 5874
Ion Ratio Lower Upper
78 100
77 28.7 18.1 27.1#
50 18.0 15.2 22.8





#41
Tetrahydrofuran
Concen: 0.126 ppbv m
RT: 3.069 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

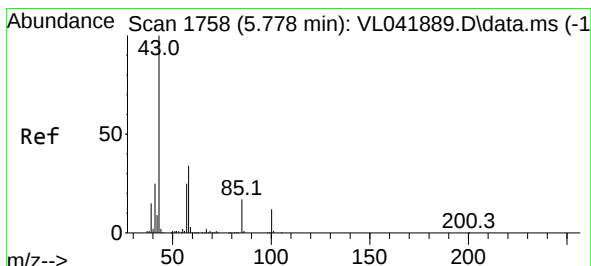
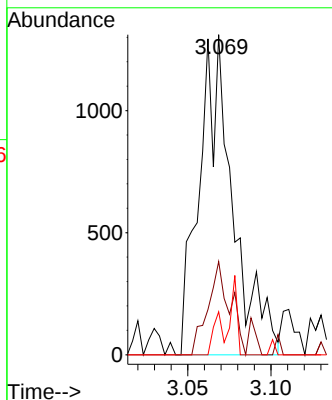
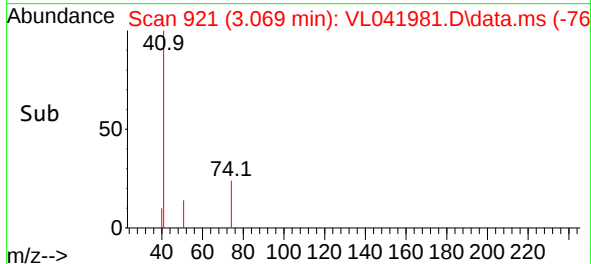
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 42 Resp: 184
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5
71 0.0 29.9 44.9

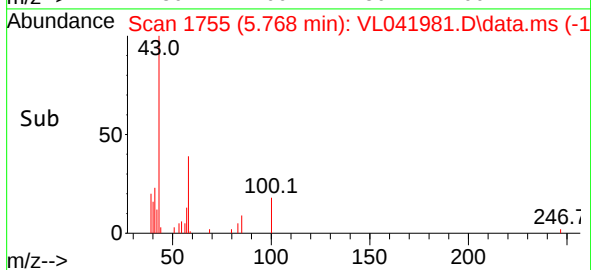
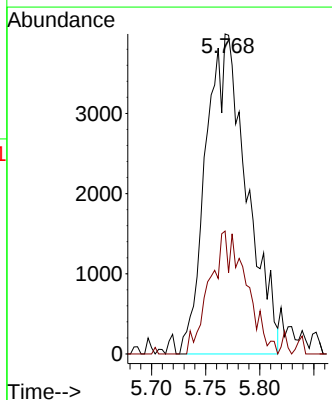
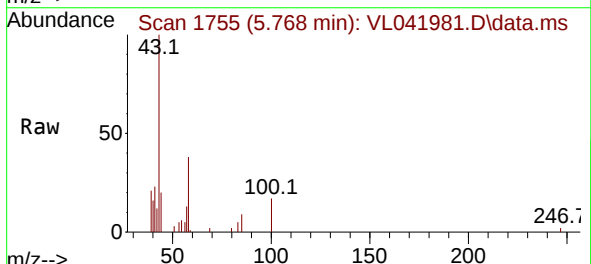
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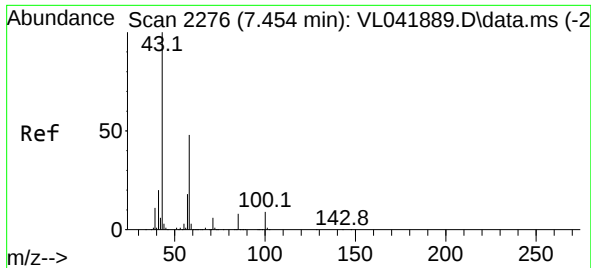
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#50
4-Methyl-2-Pentanone
Concen: 0.286 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. -0.010 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

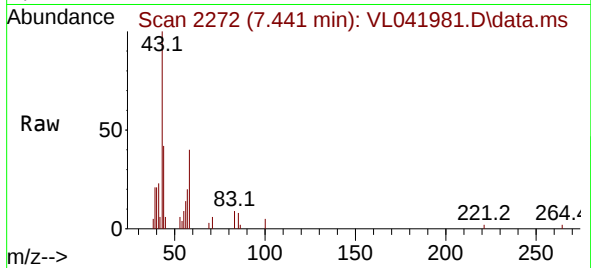
Tgt Ion: 43 Resp: 10505
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6





#51
2-Hexanone
Concen: 0.231 ppbv m
RT: 7.441 min Scan# 2114
Delta R.T. -0.013 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

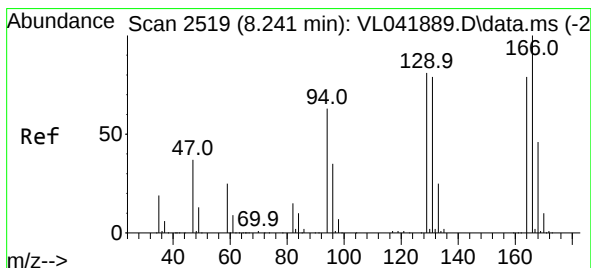
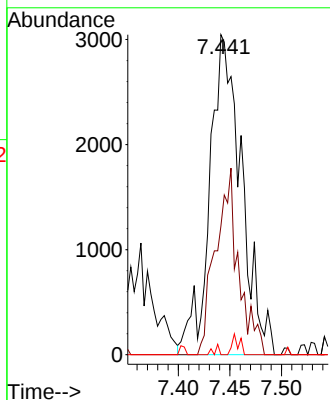
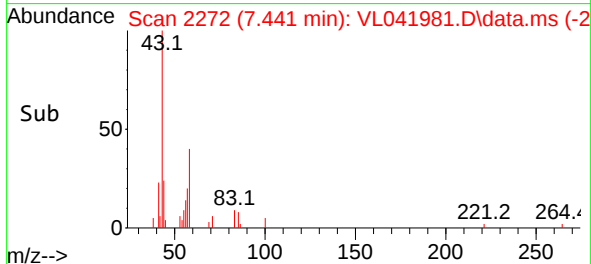
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 6514
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6
98 0.0 0.2 0.2

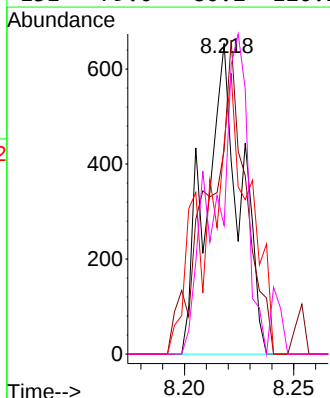
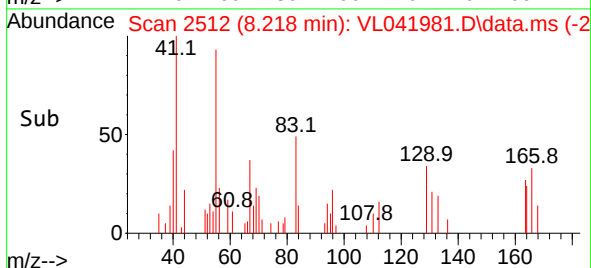
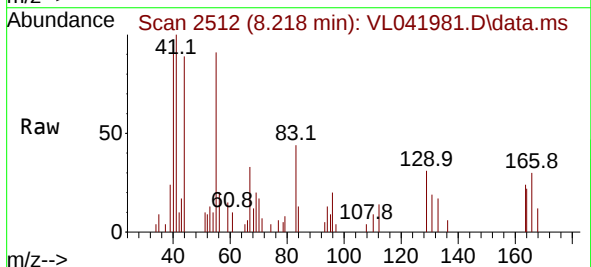
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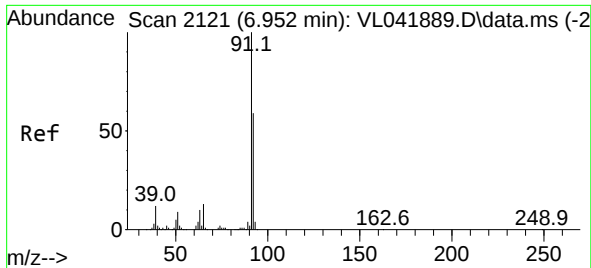
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.023 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

Tgt Ion:164 Resp: 715
Ion Ratio Lower Upper
164 100
166 125.1 100.8 151.2
129 129.2 82.0 123.0#
131 79.0 80.2 120.2#





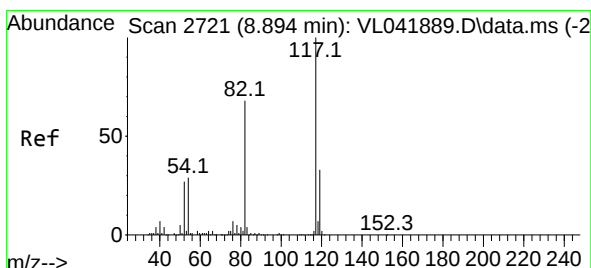
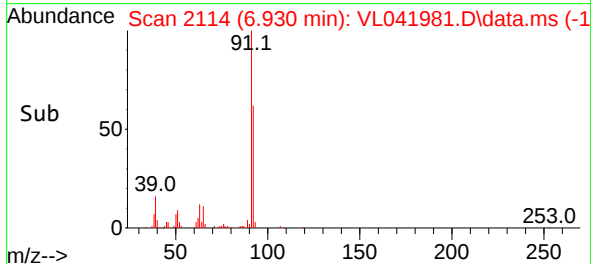
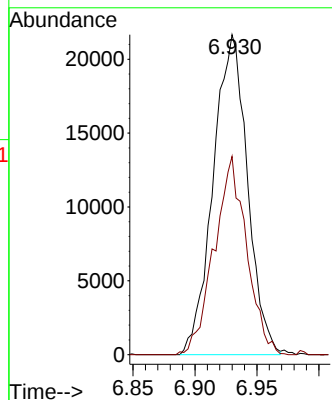
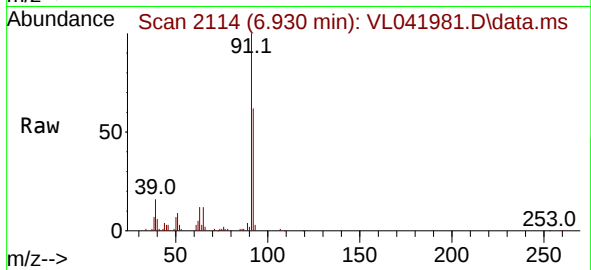
#53
Toluene
Concen: 0.989 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.023 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 4175
Ion Ratio Lower Upper
91 100
92 58.5 47.4 71.0

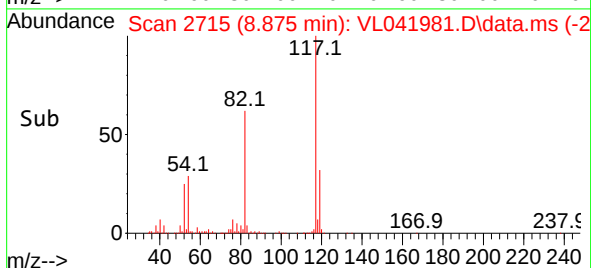
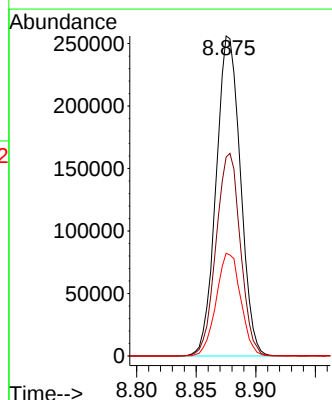
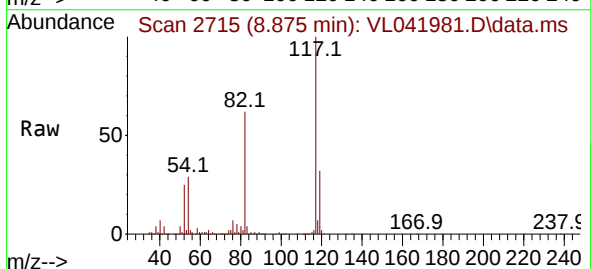
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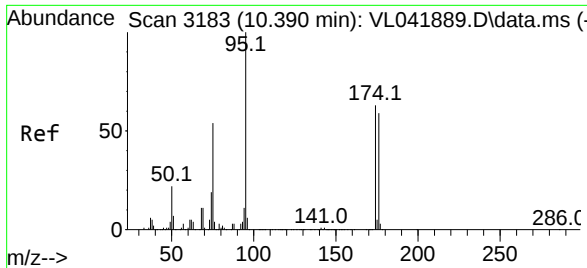
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041981.D
Acq: 10 Feb 2025 11:33

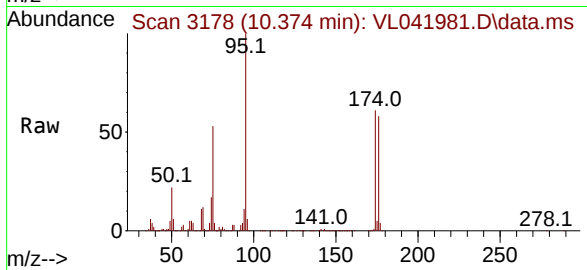
Tgt Ion:117 Resp: 363227
Ion Ratio Lower Upper
117 100
82 63.3 54.2 81.4
119 32.4 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.758 ppbv
 RT: 10.374 min Scan# 3183
 Delta R.T. -0.016 min
 Lab File: VL041981.D
 Acq: 10 Feb 2025 11:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion: 95 Resp: 27916
 Ion Ratio Lower Upper
 95 100
 174 60.0 49.0 73.4
 175 4.8 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

