

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042905.D
 Acq On : 08 Sep 2025 15:59
 Operator : SY/MD
 Sample : Q3037-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:57:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	141221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	372044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	303028	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	235889	10.380	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9819	0.474	ppbv	97
3) Chlorodifluoromethane	1.473	51	86667	3.788	ppbv #	90
4) Chloromethane	1.531	50	8391	1.005	ppbv	100
9) Propene	1.486	41	8897m	0.901	ppbv	
11) Trichlorofluoromethane	1.874	101	8119m	0.398	ppbv	
13) Ethanol	1.719	45	171366	189.695	ppbv	92
15) Acetone	1.832	43	2269673	121.496	ppbv #	76
19) Isopropyl Alcohol	1.884	45	2182649	195.618	ppbv	98
20) Methylene Chloride	2.062	84	8047	1.028	ppbv #	74
23) Vinyl Acetate	2.450	43	18956m	0.738	ppbv	
25) Ethyl Acetate	2.832	43	150520	3.329	ppbv #	95
29) Chloroform	2.845	83	8213	0.276	ppbv	93
34) 2-Butanone	2.554	43	27696	1.102	ppbv	97
35) Carbon Tetrachloride	3.755	117	4459	0.174	ppbv #	97
36) Benzene	3.648	78	4495m	0.126	ppbv	
41) Tetrahydrofuran	3.062	42	3374m	0.241	ppbv	
43) Methyl Methacrylate	4.878	69	4057m	0.276	ppbv	
50) 4-Methyl-2-Pentanone	5.745	43	68077	2.005	ppbv	99
53) Toluene	6.927	91	14047m	0.332	ppbv	
59) m/p-Xylene	9.519	91	7173m	0.171	ppbv	
60) o-Xylene	9.959	91	4723	0.112	ppbv	87
64) n-propylbenzene	10.989	120	1655m	0.105	ppbv	
72) 4-Ethyltoluene	11.121	105	12693	0.248	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.196	105	14080	0.324	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	53636	1.124	ppbv #	59

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

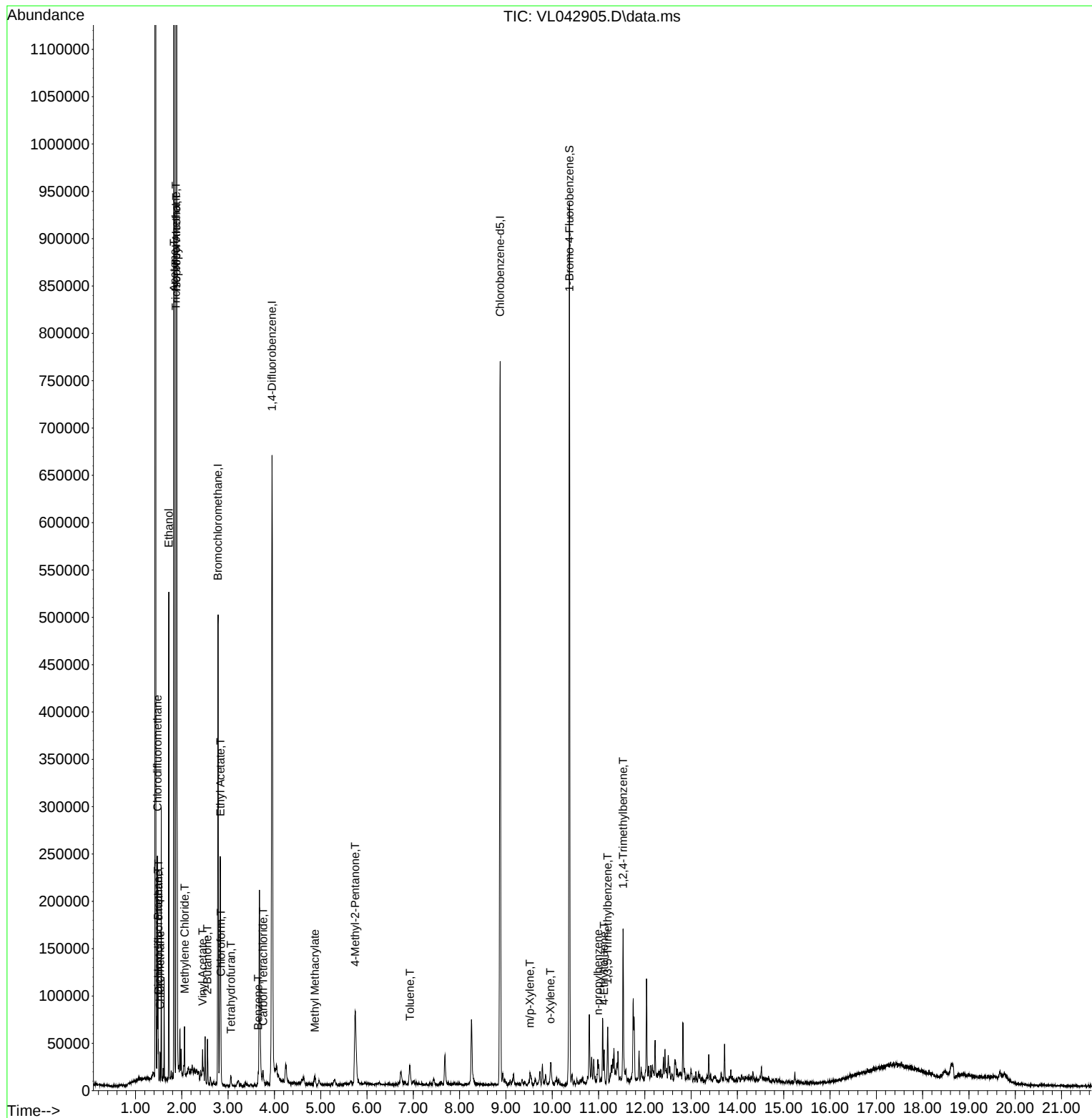
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042905.D
Acq On : 08 Sep 2025 15:59
Operator : SY/MD
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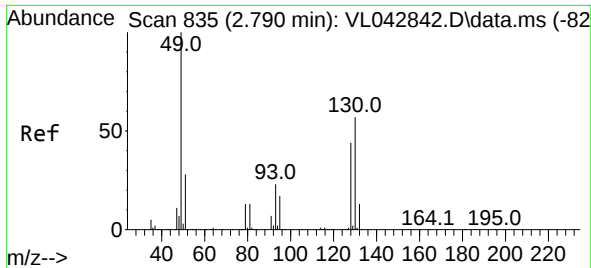
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Sep 09 00:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
Supervised By : Mahesh Dadoda 09/11/2025





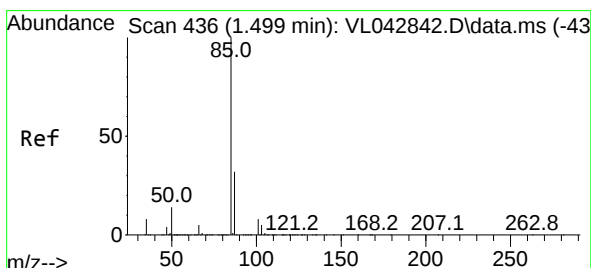
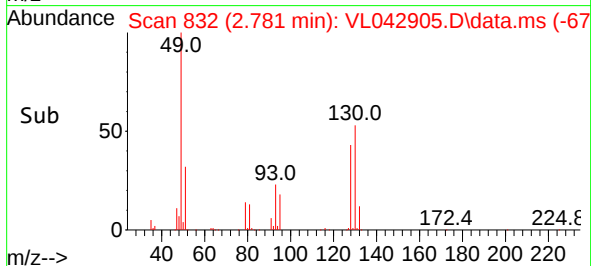
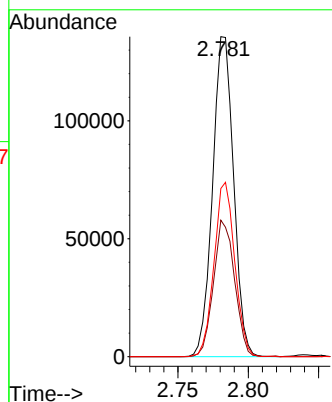
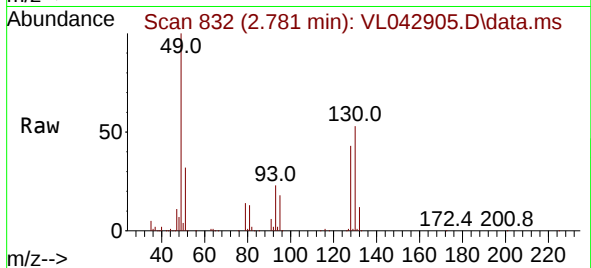
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. 0.004 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 49 Resp: 14122
Ion Ratio Lower Upper
49 100
128 42.8 23.7 71.1
130 53.7 30.6 91.6

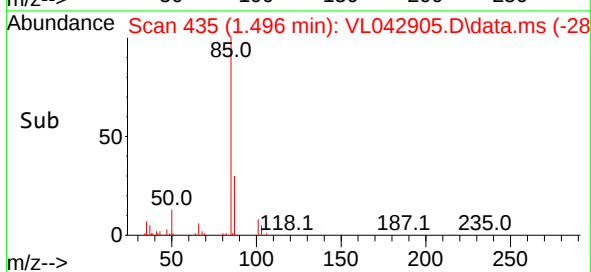
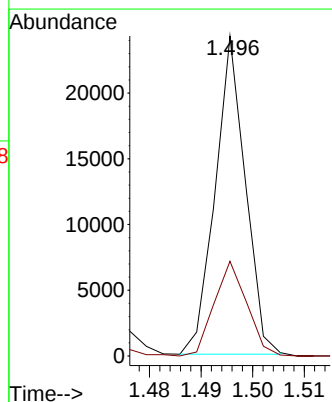
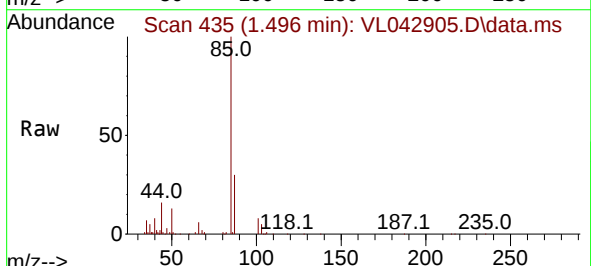
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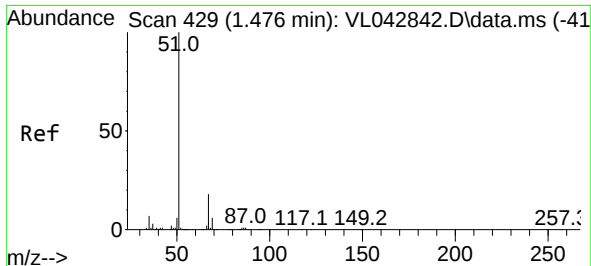
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.474 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

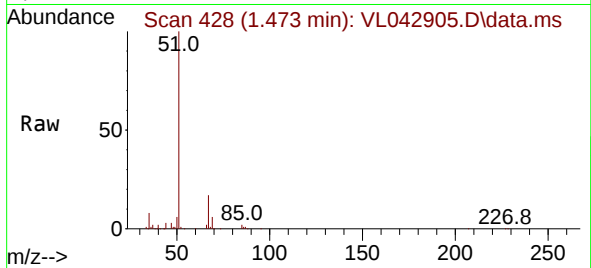
Tgt Ion: 85 Resp: 9819
Ion Ratio Lower Upper
85 100
87 29.8 25.3 37.9





#3
Chlorodifluoromethane
Concen: 3.788 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

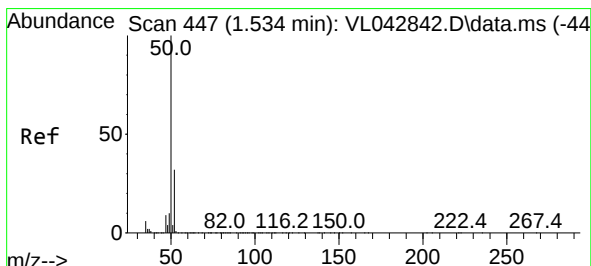
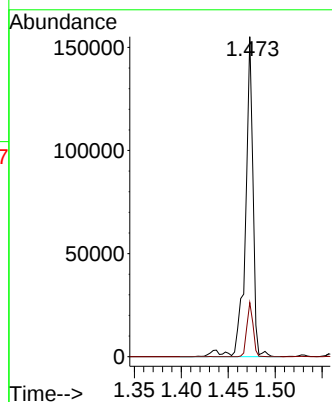
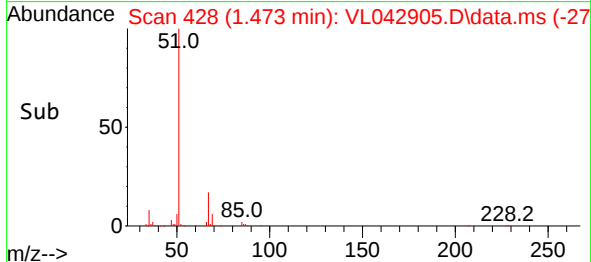
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



Tgt Ion: 51 Resp: 8666
Ion Ratio Lower Upper
51 100
67 14.0 14.9 22.3

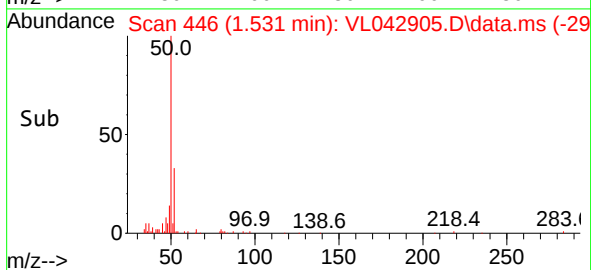
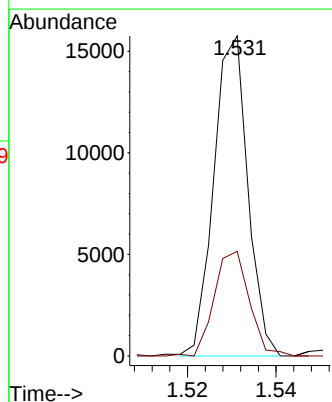
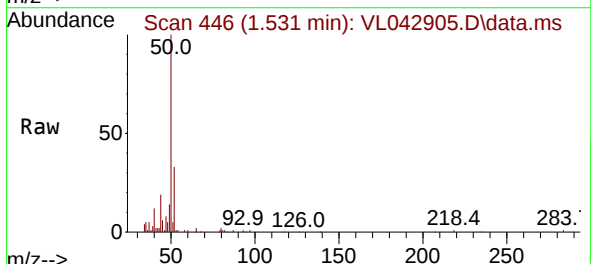
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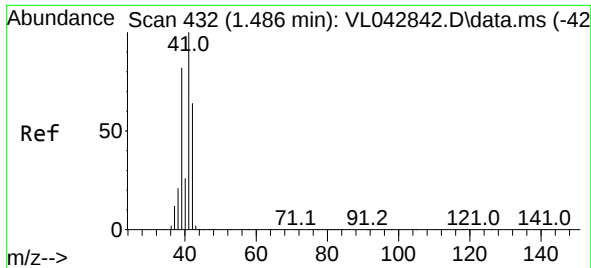
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 1.005 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9





#9

Propene

Concen: 0.901 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 41 Resp: 889

Ion Ratio Lower Upper

41 100

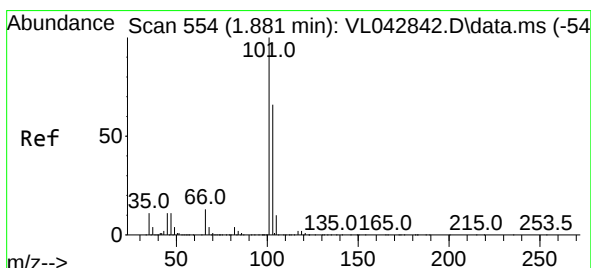
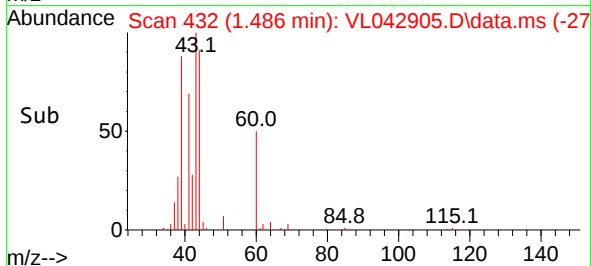
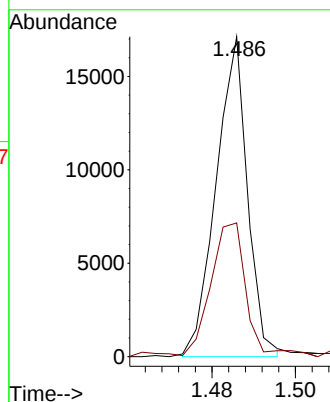
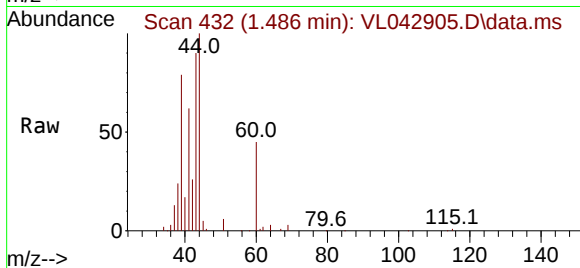
42 1680.7 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#11

Trichlorofluoromethane

Concen: 0.398 ppbv m

RT: 1.874 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL042905.D

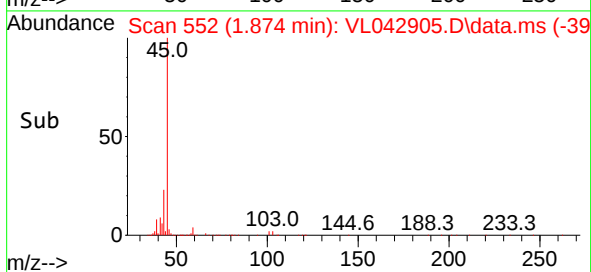
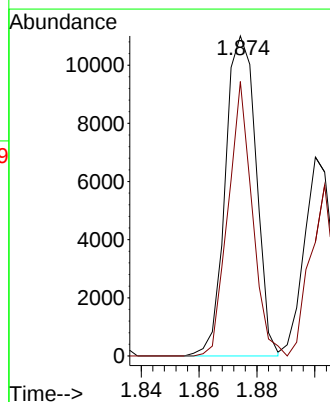
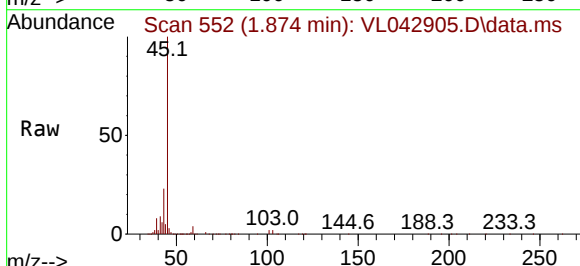
Acq: 08 Sep 2025 15:59

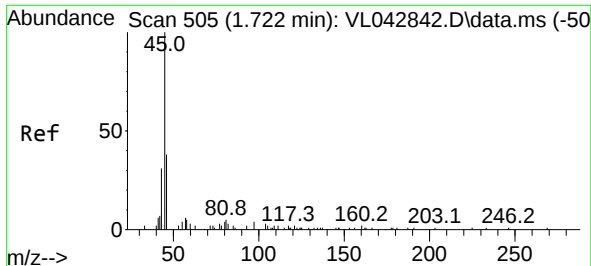
Tgt Ion:101 Resp: 8119

Ion Ratio Lower Upper

101 100

103 85.8 52.5 78.7#





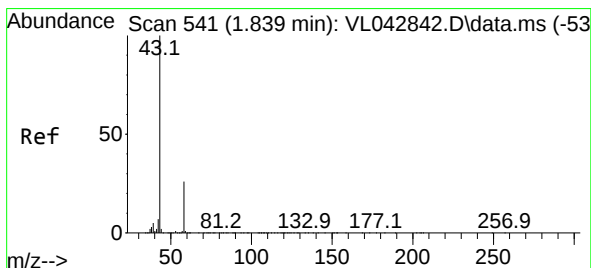
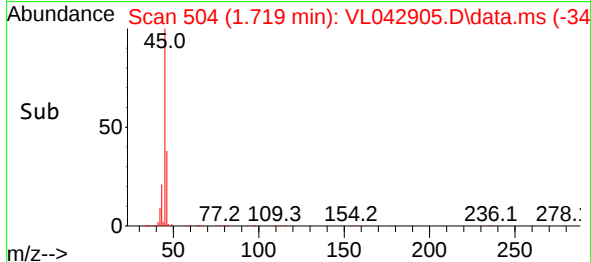
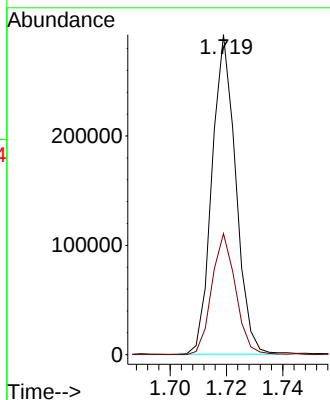
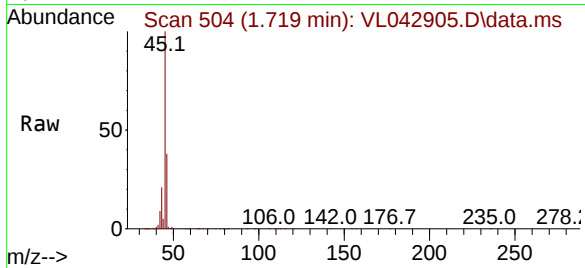
#13
Ethanol
Concen: 189.695 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 171360
Ion Ratio Lower Upper
45 100
46 38.4 17.5 69.9

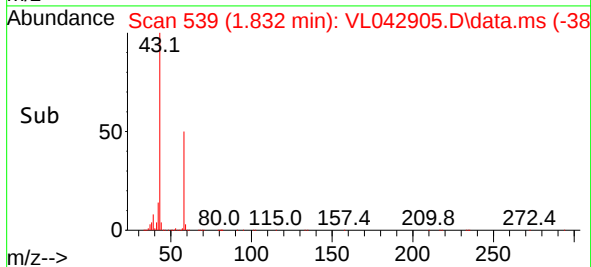
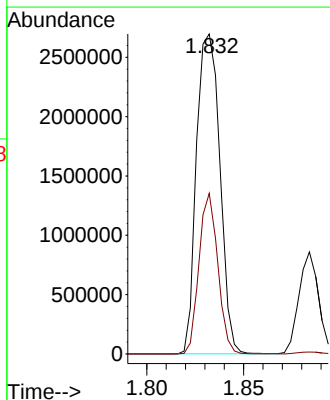
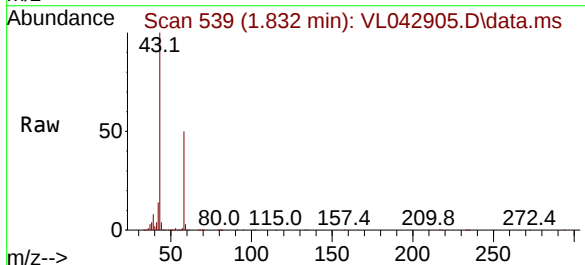
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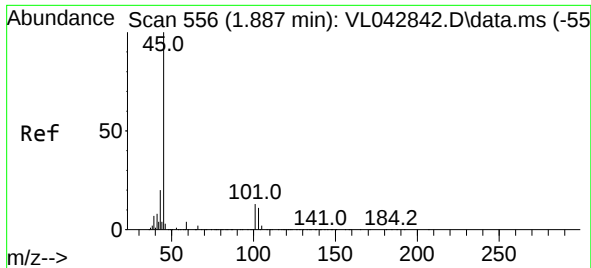
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 121.496 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 2269673
Ion Ratio Lower Upper
43 100
58 40.4 22.4 33.6#





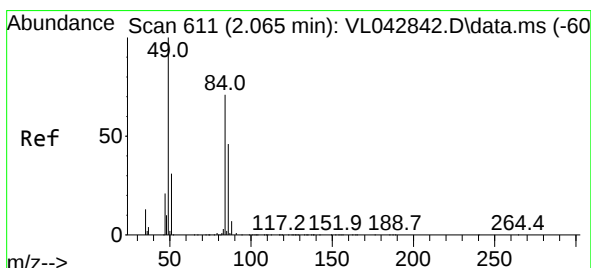
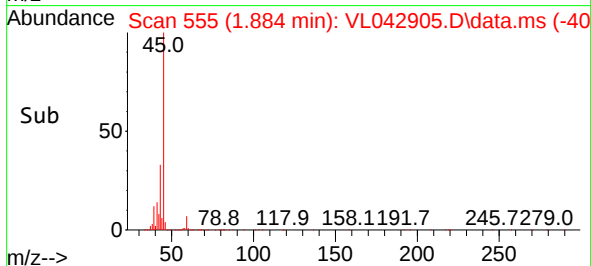
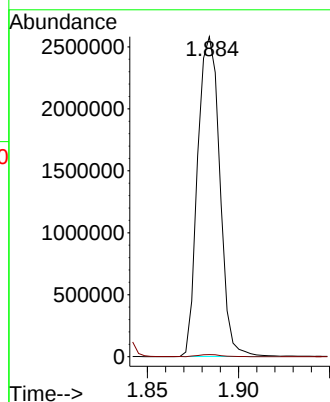
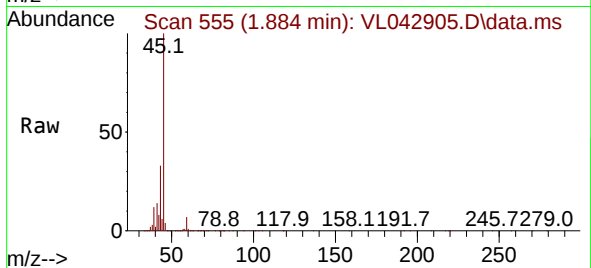
#19
Isopropyl Alcohol
Concen: 195.618 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 45 Resp: 2182649
Ion Ratio Lower Upper
45 100
58 42.0 32.7 49.1

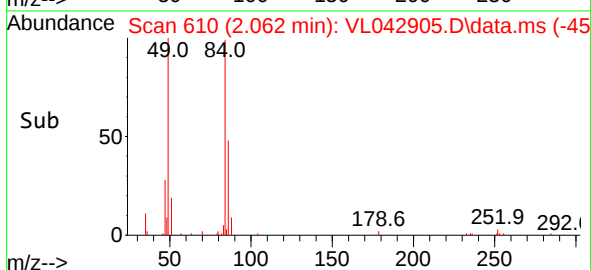
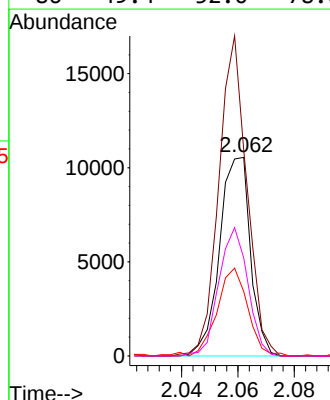
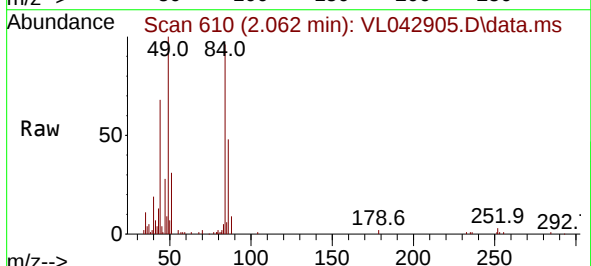
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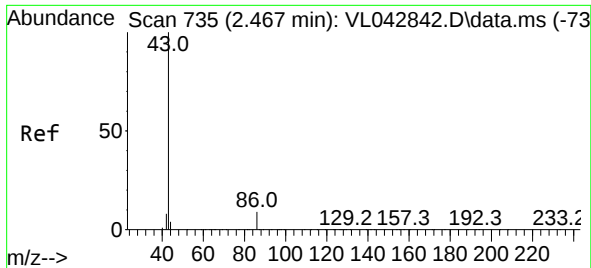
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 1.028 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

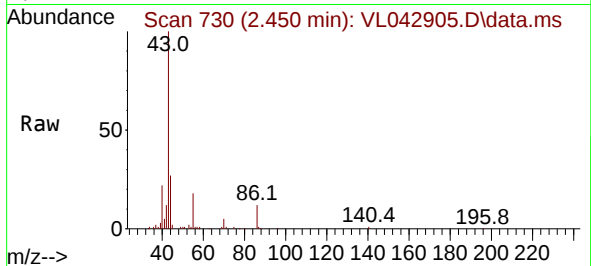
Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 102.7 112.3 168.5#
51 30.7 36.0 54.0#
86 49.4 52.0 78.0#





#23
 Vinyl Acetate
 Concen: 0.738 ppbv m
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

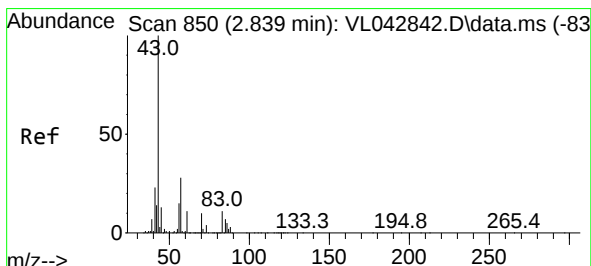
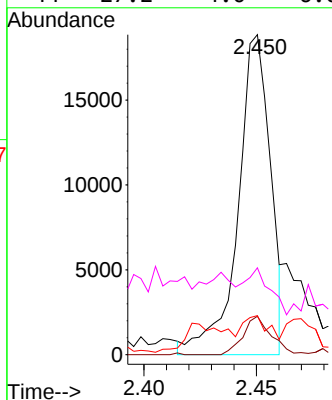
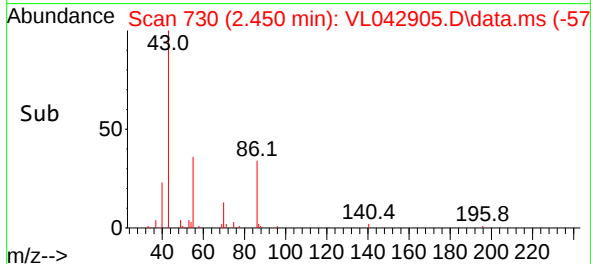
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



Tgt Ion: 43 Resp: 18950
 Ion Ratio Lower Upper
 43 100
 86 12.0 6.6 9.8#
 42 12.2 7.0 10.6#
 44 27.2 4.0 6.0#

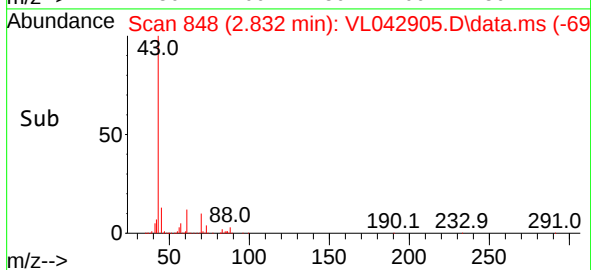
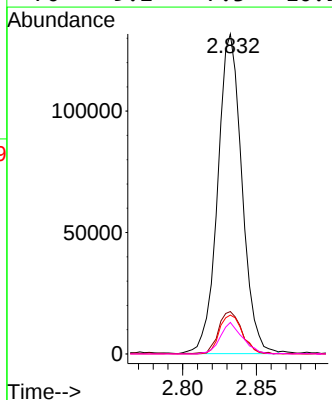
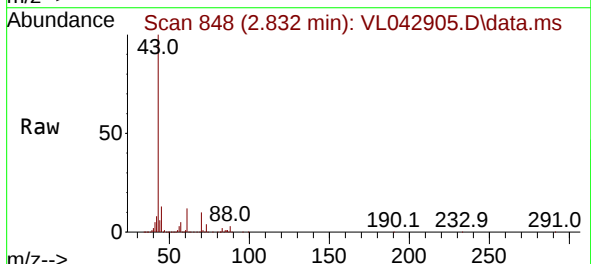
Manual Integrations
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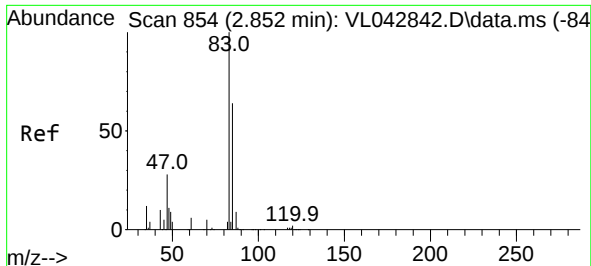
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#25
 Ethyl Acetate
 Concen: 3.329 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.006 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 150520
 Ion Ratio Lower Upper
 43 100
 45 12.7 8.1 12.1#
 61 11.7 7.4 11.2#
 70 9.2 7.3 10.9





#29

Chloroform

Concen: 0.276 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 83 Resp: 821

Ion Ratio Lower Upper

83 100

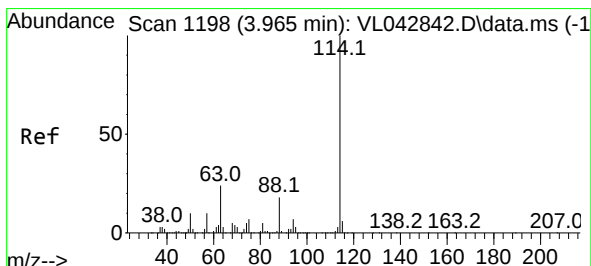
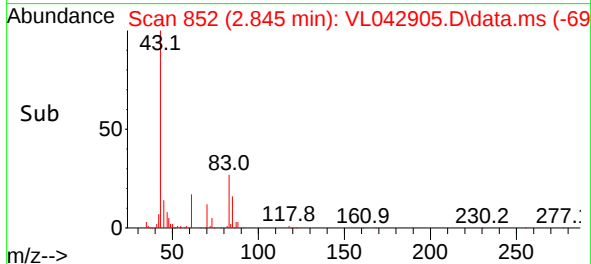
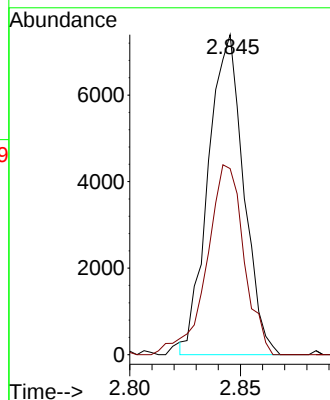
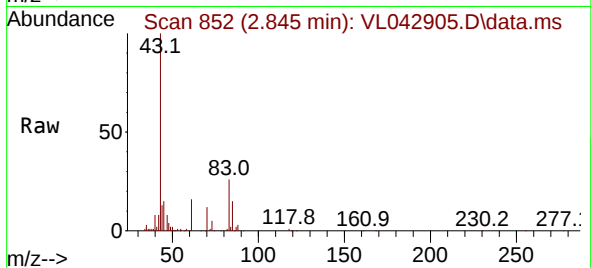
85 58.1 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

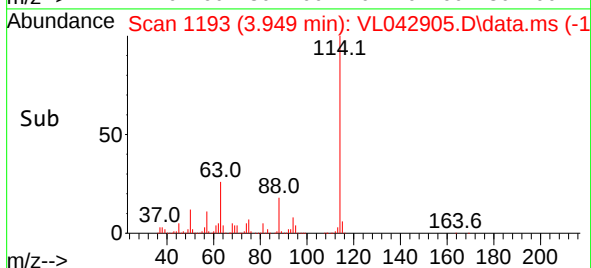
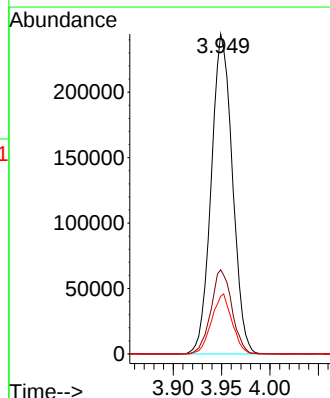
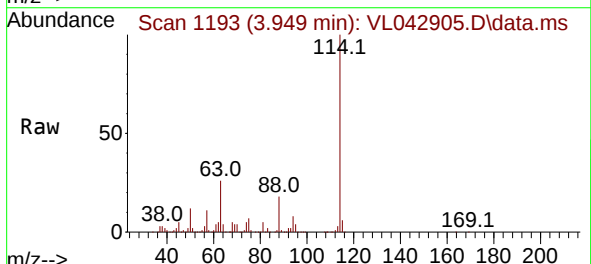
Tgt Ion:114 Resp: 372044

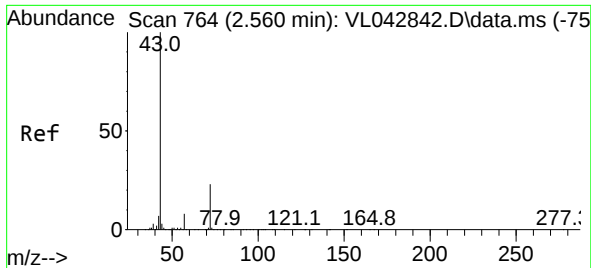
Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

88 18.1 14.4 21.6





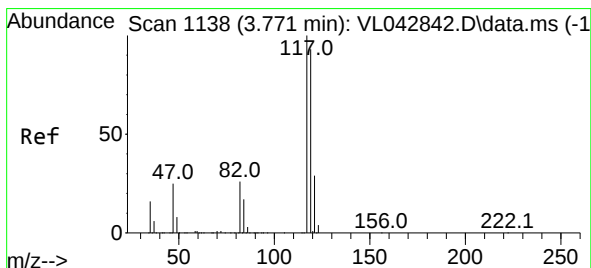
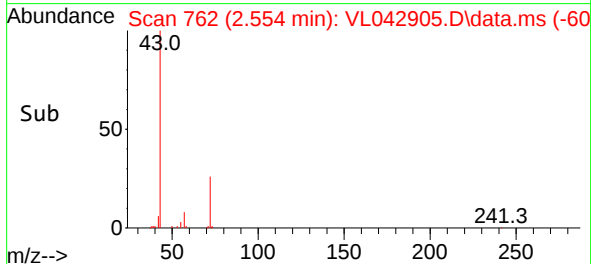
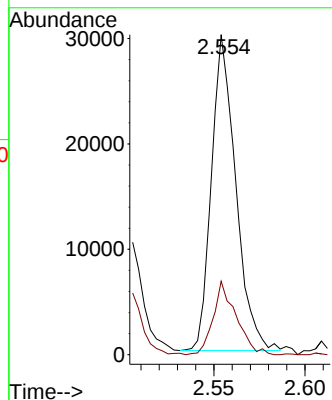
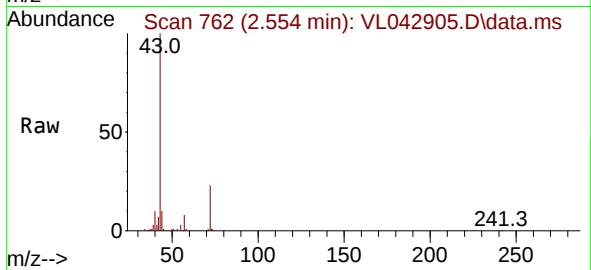
#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 43 Resp: 27690
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0

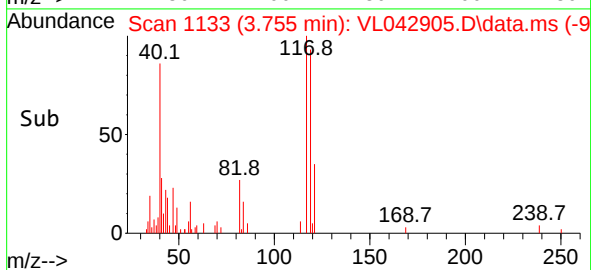
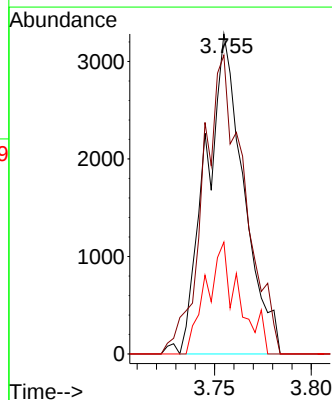
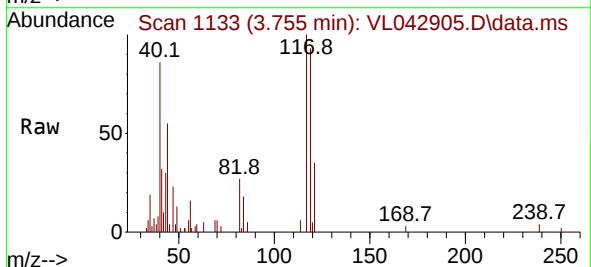
Manual Integrations
APPROVED

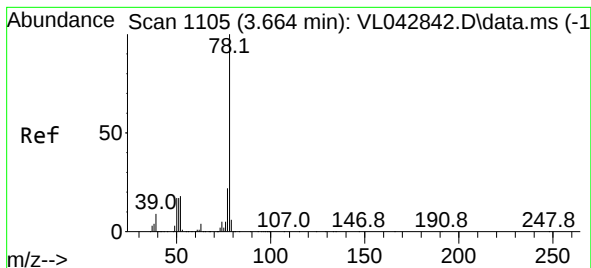
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#35
Carbon Tetrachloride
Concen: 0.174 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 4459
Ion Ratio Lower Upper
117 100
119 93.4 74.7 112.1
121 34.9 23.2 34.8#





#36

Benzene

Concen: 0.126 ppbv m

RT: 3.648 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

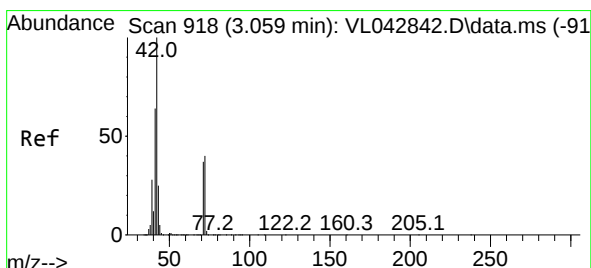
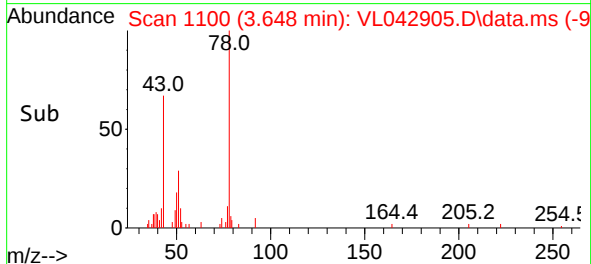
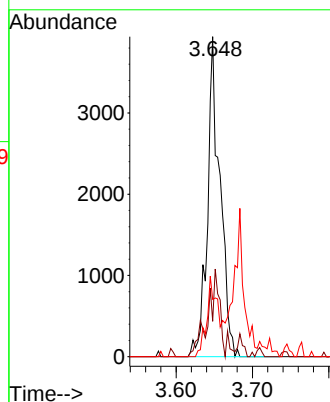
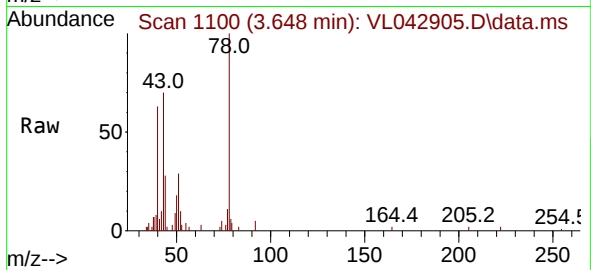
IA-2DUP

Tgt Ion: 78	Resp: 4498
Ion Ratio	Lower Upper
78 100	
77 11.0	17.7 26.5
50 17.9	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#41

Tetrahydrofuran

Concen: 0.241 ppbv m

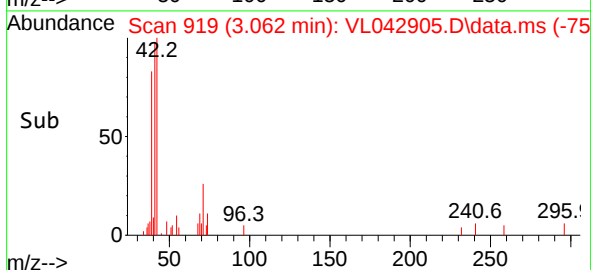
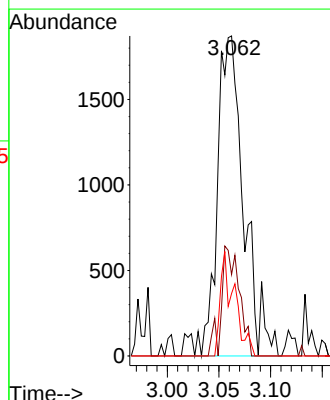
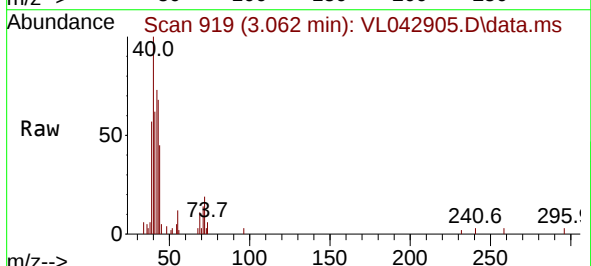
RT: 3.062 min Scan# 919

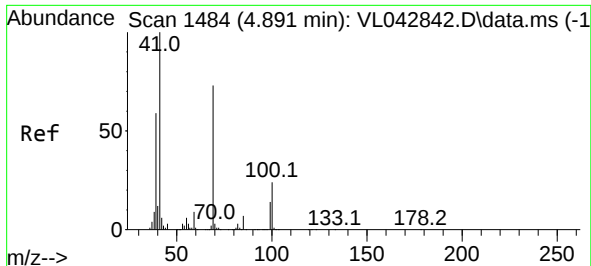
Delta R.T. 0.019 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Tgt Ion: 42	Resp: 3374
Ion Ratio	Lower Upper
42 100	
72 22.9	32.6 48.8#
71 17.3	30.0 45.0#





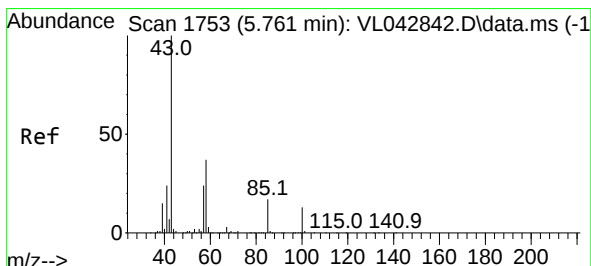
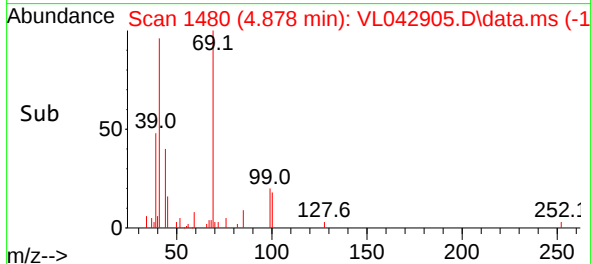
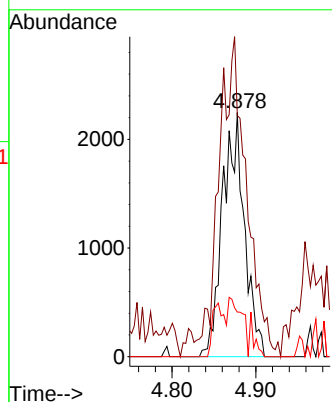
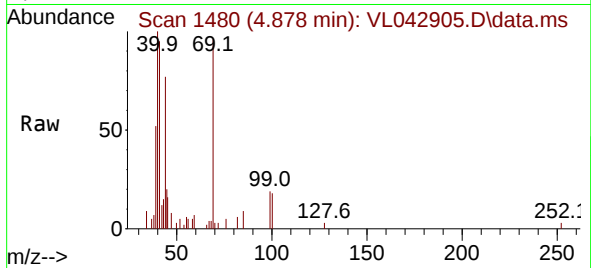
#43
Methyl Methacrylate
Concen: 0.276 ppbv m
RT: 4.878 min Scan# 1484
Delta R.T. 0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 69 Resp: 405
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0
100 30.9 30.2 45.4

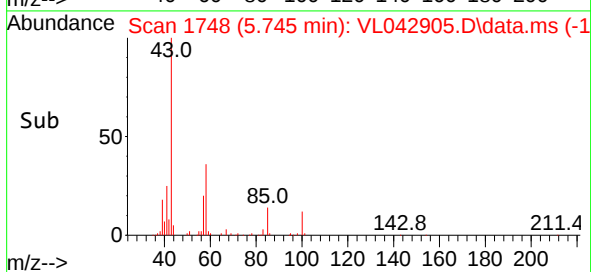
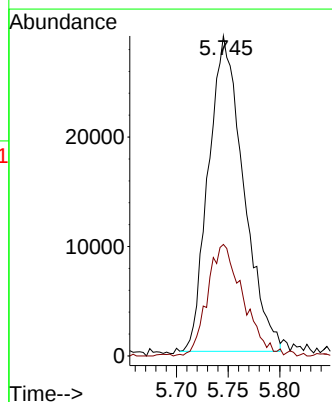
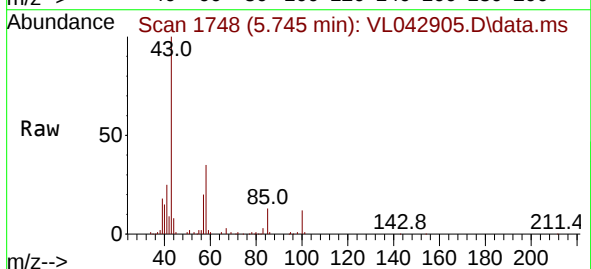
Manual Integrations
APPROVED

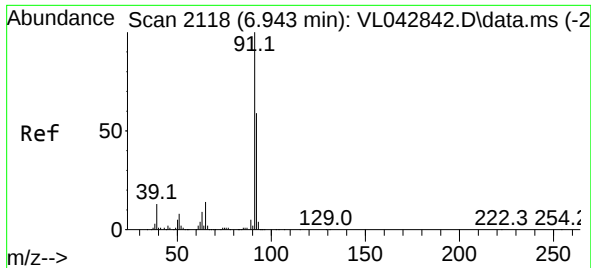
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#50
4-Methyl-2-Pentanone
Concen: 2.005 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.016 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 68077
Ion Ratio Lower Upper
43 100
58 36.5 29.8 44.8





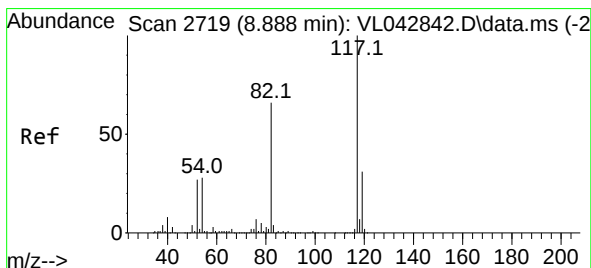
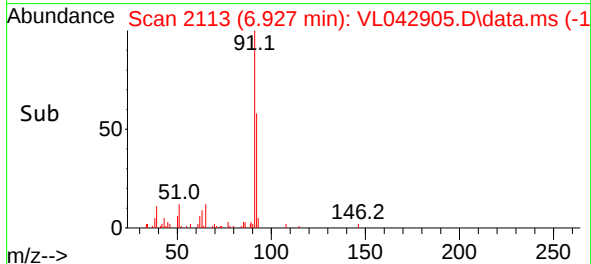
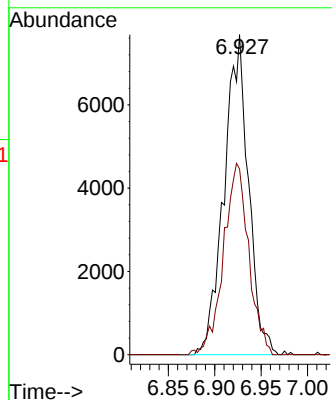
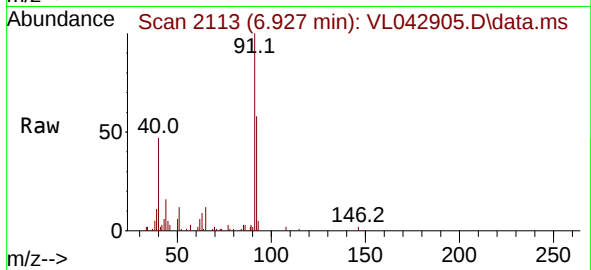
#53
Toluene
Concen: 0.332 ppbv m
RT: 6.927 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 1404
Ion Ratio Lower Upper
91 100
92 61.8 47.8 71.6

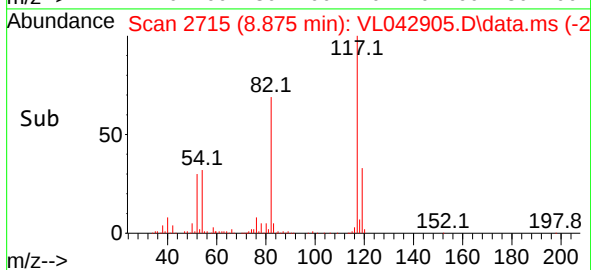
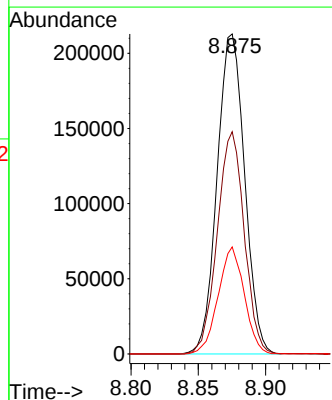
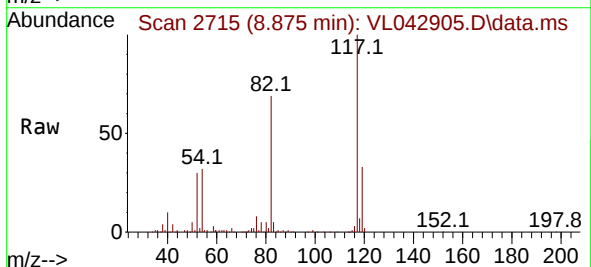
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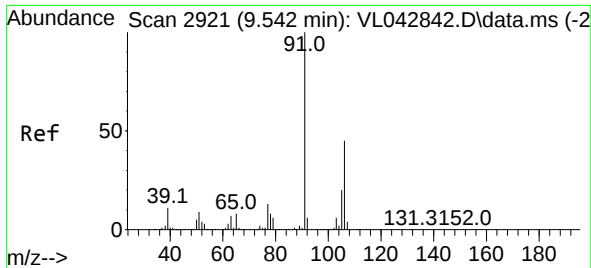
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 303028
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.7 25.9 38.9





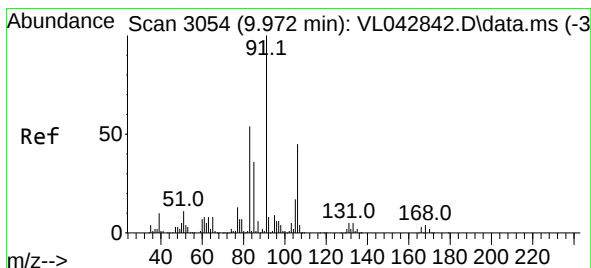
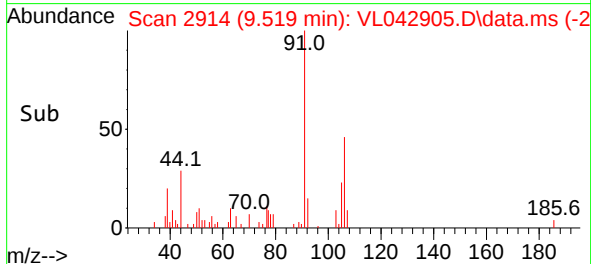
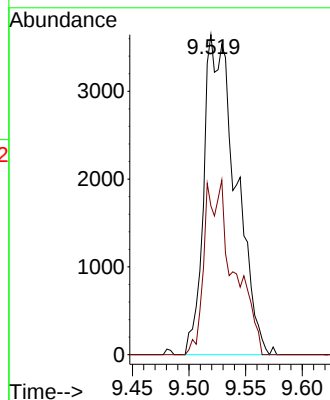
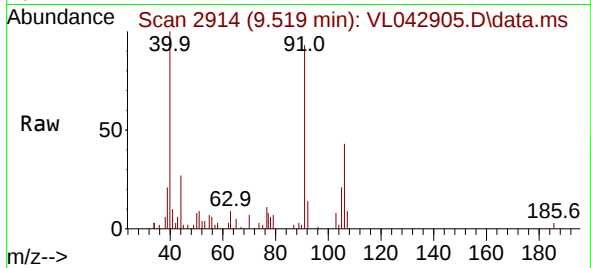
#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.019 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 717
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

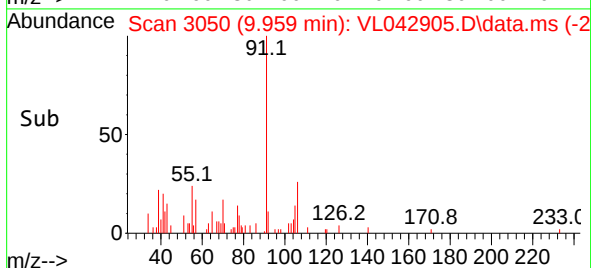
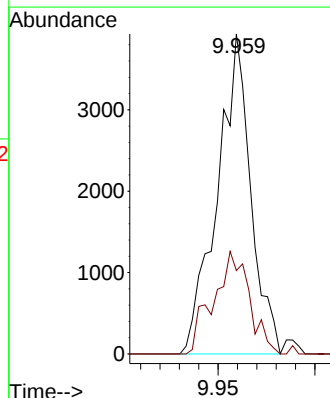
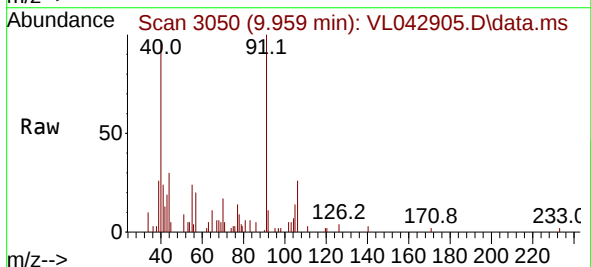
Manual Integrations
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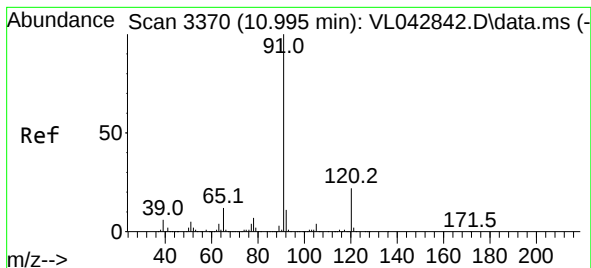
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#60
o-Xylene
Concen: 0.112 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 4723
Ion Ratio Lower Upper
91 100
106 35.0 21.8 65.4





#64

n-propylbenzene

Concen: 0.105 ppbv m

RT: 10.989 min Scan# 3177

Delta R.T. 0.010 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion:120 Resp: 165

Ion Ratio Lower Upper

120 100

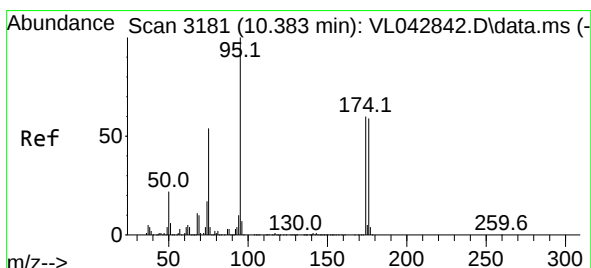
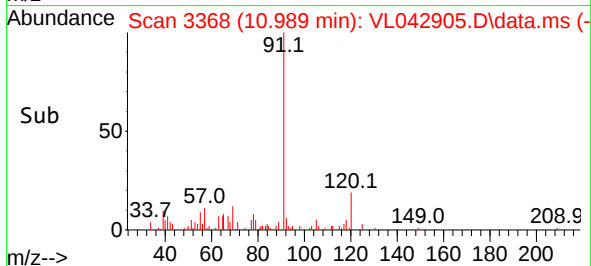
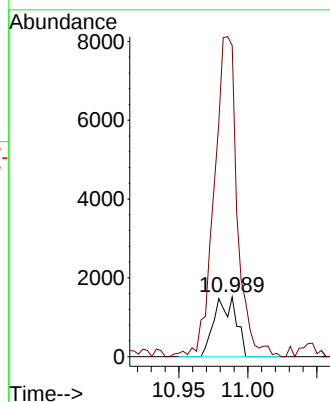
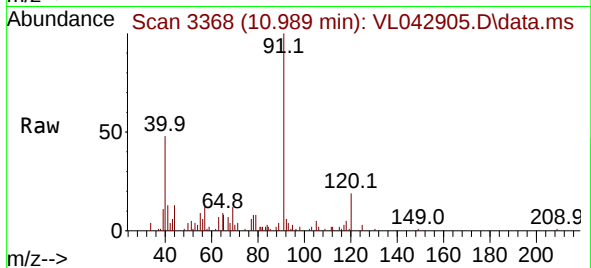
91 573.7 375.8 563.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.380 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

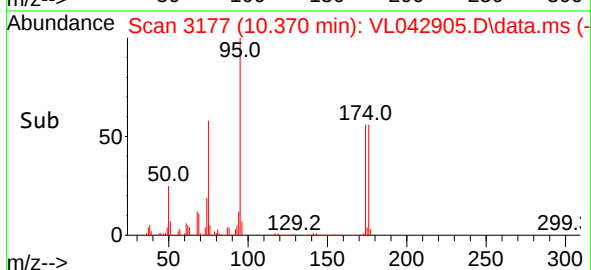
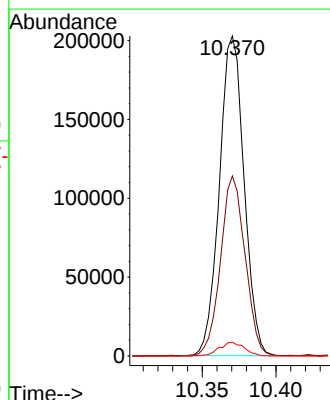
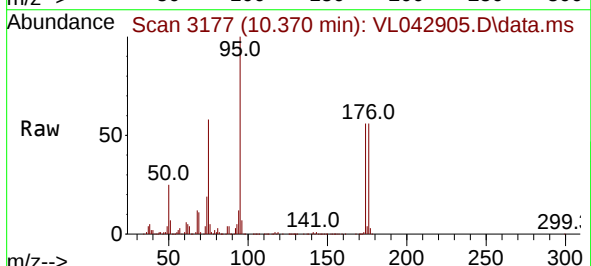
Tgt Ion: 95 Resp: 235889

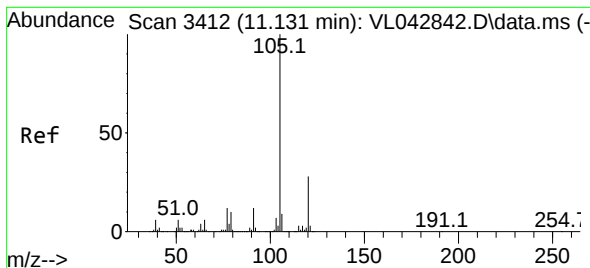
Ion Ratio Lower Upper

95 100

174 56.1 48.4 72.6

175 4.4 3.8 5.8





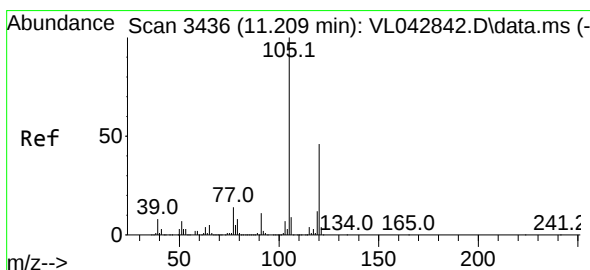
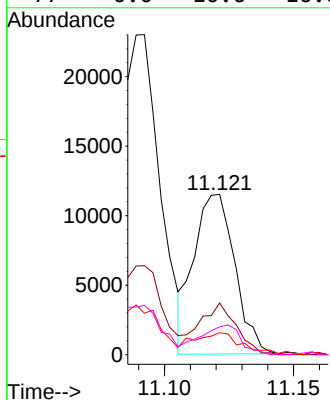
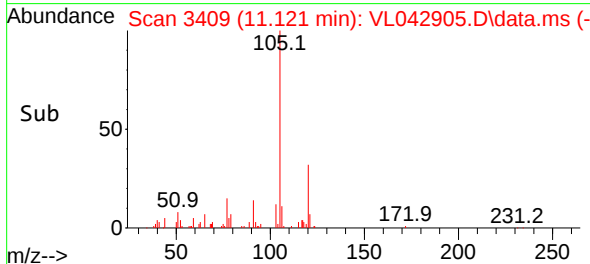
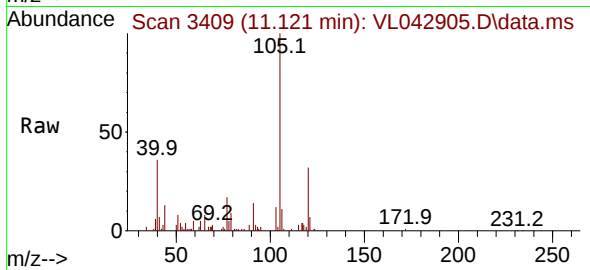
#72
4-Ethyltoluene
Concen: 0.248 ppbv
RT: 11.121 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion:105 Resp: 1269
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2
91 0.0 9.8 14.6
77 0.0 10.6 16.0

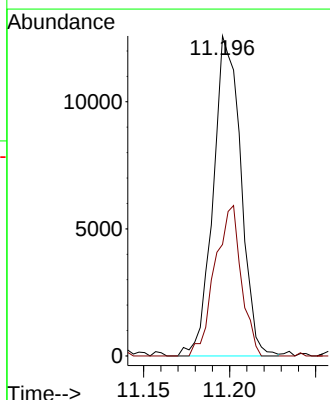
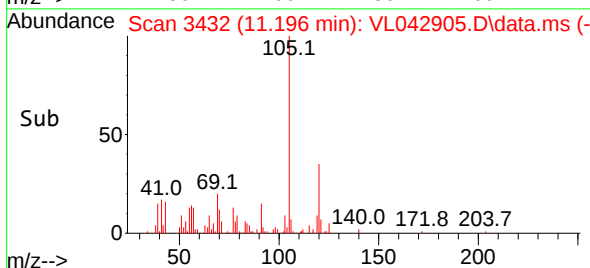
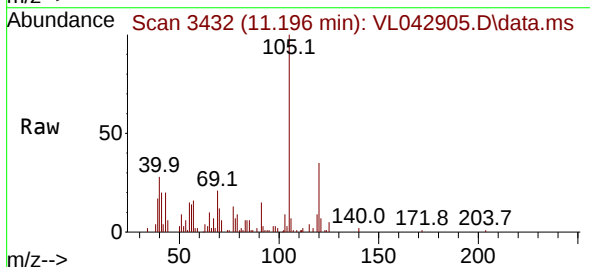
Manual Integrations
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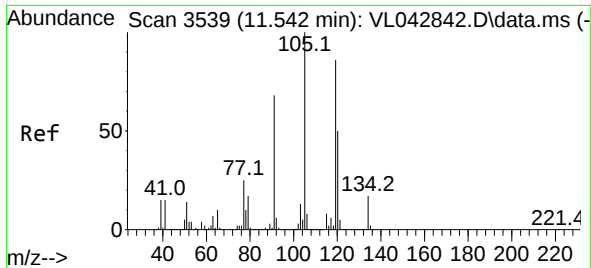
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.324 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL042905.D
Acq: 08 Sep 2025 15:59

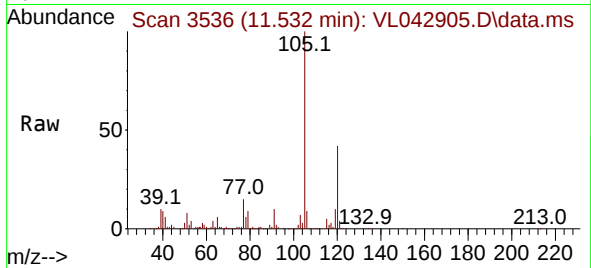
Tgt Ion:105 Resp: 14080
Ion Ratio Lower Upper
105 100
120 34.8 36.6 54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 1.124 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. 0.003 min
 Lab File: VL042905.D
 Acq: 08 Sep 2025 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



Tgt Ion:	105	Resp:	53630
Ion	Ratio	Lower	Upper
105	100		
120	42.0	39.8	59.6
91	10.5	54.2	81.4
77	15.2	19.8	29.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

