

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042298.D
 Acq On : 10 Apr 2025 07:54
 Operator : SY/MD
 Sample : Q1757-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025

Quant Time: Apr 10 08:19:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	179364	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	415879	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	390183	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	311260	9.714	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	25069m	0.927	ppbv	
9) Propene	1.483	41	40937	3.358	ppbv	89
10) Heptane	4.972	43	11908m	0.361	ppbv	
11) Trichlorofluoromethane	1.874	101	4644	0.180	ppbv	86
13) Ethanol	1.719	45	10466m	10.964	ppbv	
15) Acetone	1.832	43	612816	24.430	ppbv	97
17) tert-Butyl alcohol	2.040	59	8659	0.277	ppbv #	88
19) Isopropyl Alcohol	1.884	45	25763	1.820	ppbv #	1
20) Methylene Chloride	2.059	84	2267	0.243	ppbv #	86
23) Vinyl Acetate	2.460	43	194799	18.684	ppbv	99
26) Hexane	2.823	57	370399	14.729	ppbv #	29
27) Carbon Disulfide	2.146	76	5418	0.201	ppbv #	51
28) Methyl tert-Butyl Ether	2.438	73	4393	0.281	ppbv #	49
29) Chloroform	2.845	83	23005	0.625	ppbv	93
34) 2-Butanone	2.557	43	21284	0.706	ppbv	98
35) Carbon Tetrachloride	3.755	117	44188	1.381	ppbv #	91
36) Benzene	3.651	78	8155	0.198	ppbv	93
51) 2-Hexanone	7.438	43	12828	0.323	ppbv #	79
52) Tetrachloroethene	8.218	164	2768m	0.169	ppbv	
53) Toluene	6.927	91	40569	0.830	ppbv	98
59) m/p-Xylene	9.526	91	14715m	0.266	ppbv	
60) o-Xylene	9.960	91	7654	0.138	ppbv	98
74) 1,2,4-Trimethylbenzene	11.533	105	18114	0.261	ppbv #	60

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

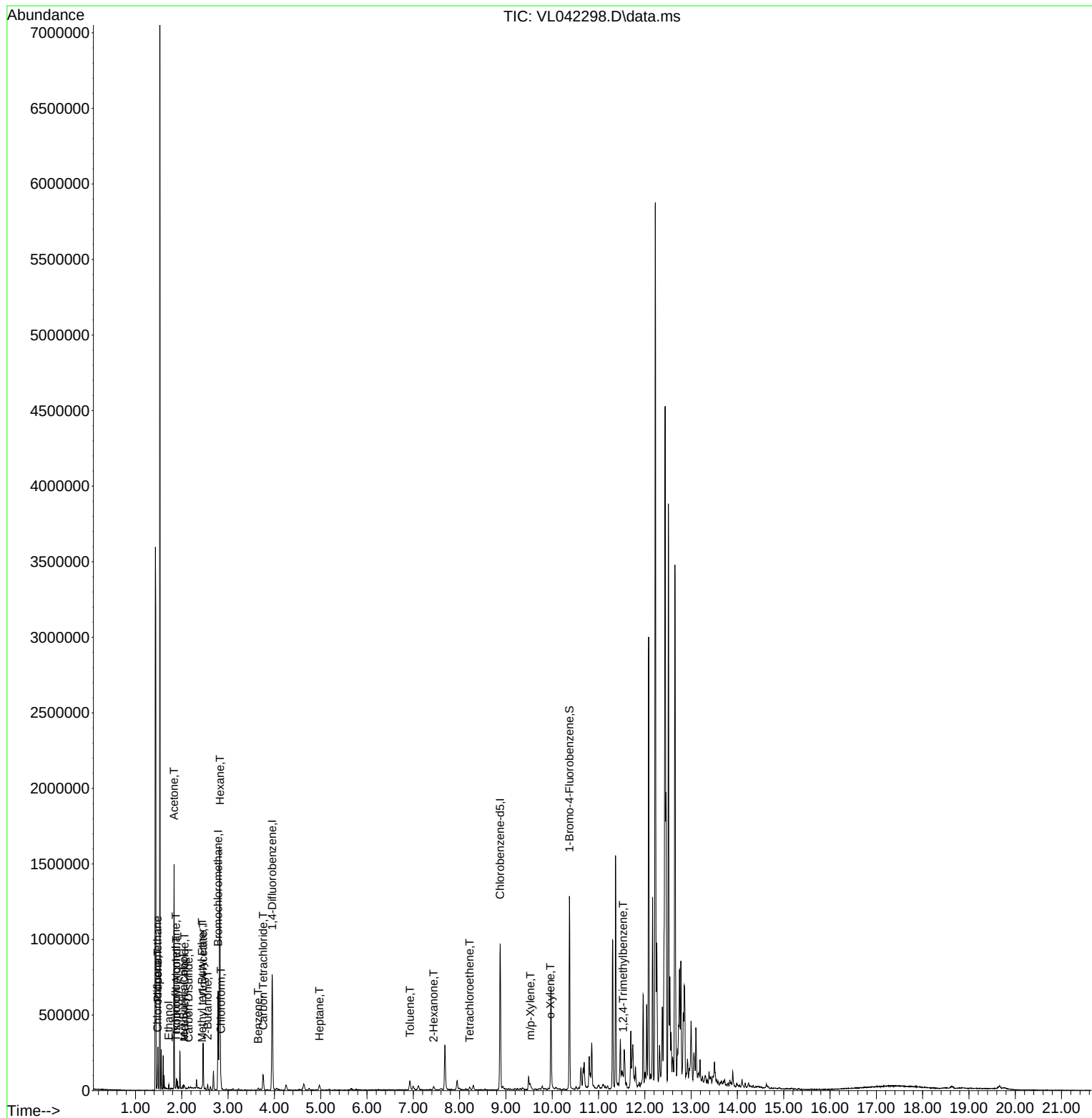
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042298.D
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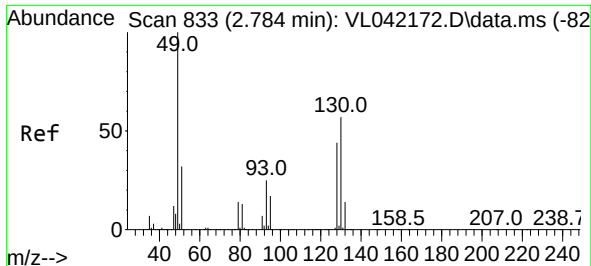
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 10 08:19:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

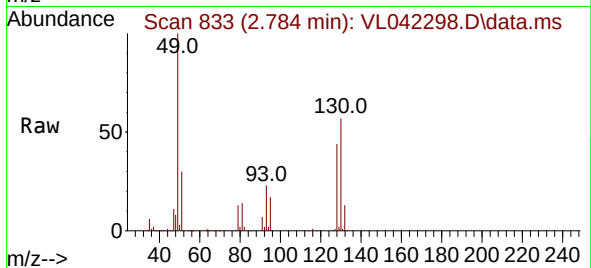
Reviewed By : Semsettin Yesilyurt 04/15/2025
Supervised By : Mahesh Dadoda 04/15/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

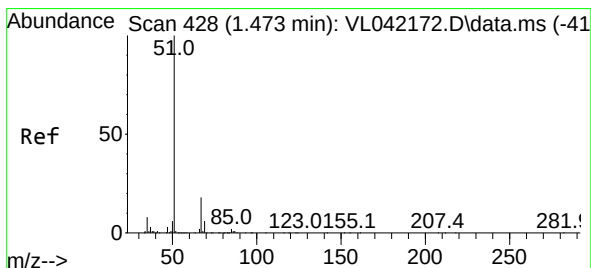
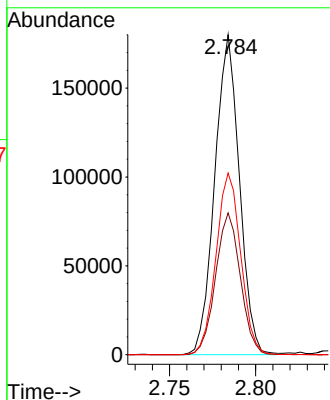
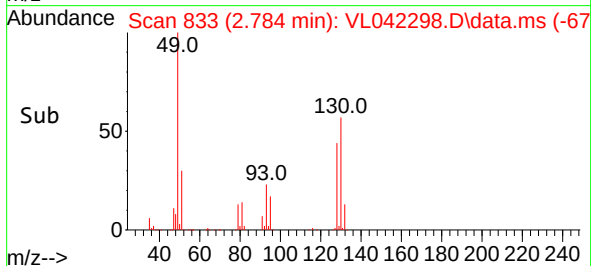
Instrument :
MSVOA_L
ClientSampleId :
SV1



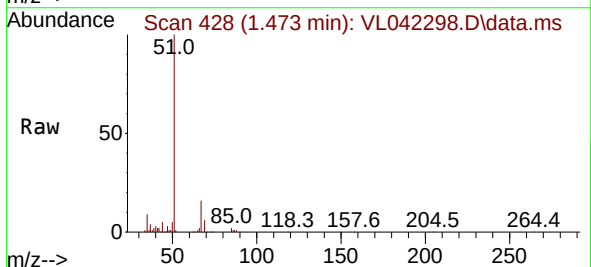
Tgt Ion: 49 Resp: 179364
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
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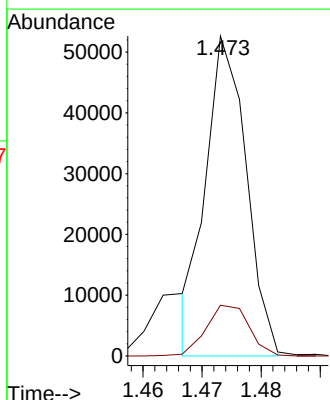
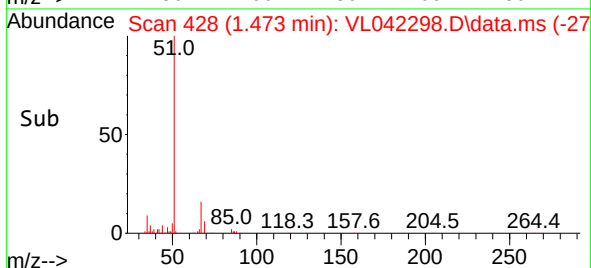
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025

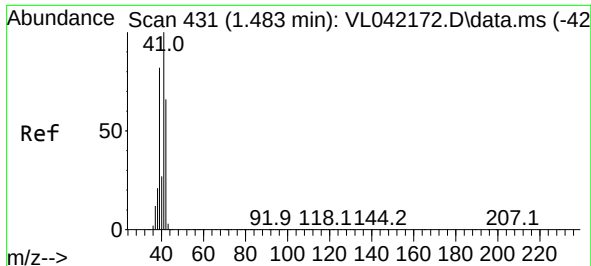


#3
Chlorodifluoromethane
Concen: 0.927 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54



Tgt Ion: 51 Resp: 25069
Ion Ratio Lower Upper
51 100
67 17.2 15.0 22.6





#9

Propene

Concen: 3.358 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 41 Resp: 4093

Ion Ratio Lower Upper

41 100

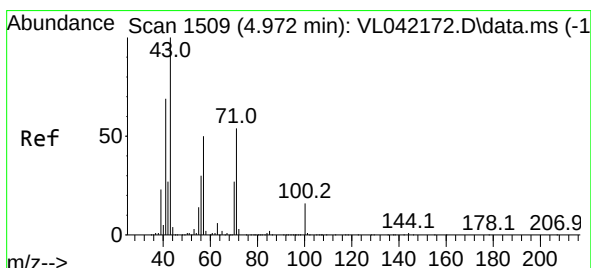
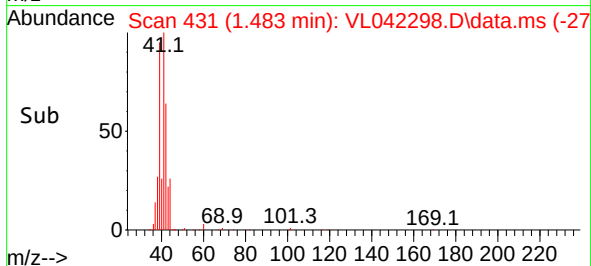
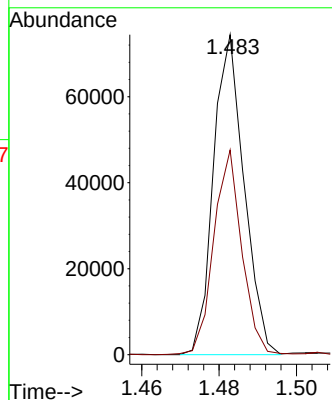
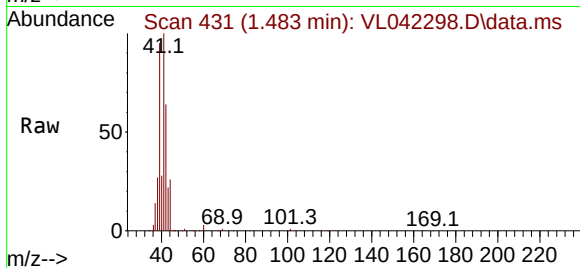
42 59.0 54.2 81.4

Manual Integrations

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Supervised By :Mahesh Dadoda 04/15/2025



#10

Heptane

Concen: 0.361 ppbv m

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042298.D

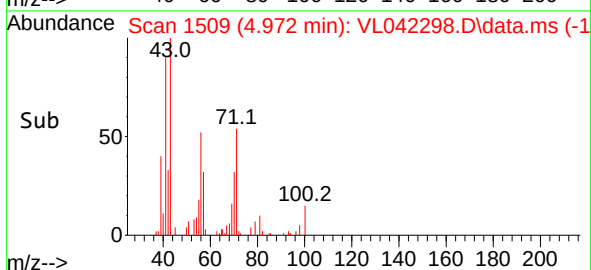
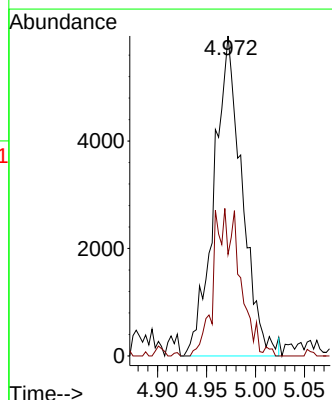
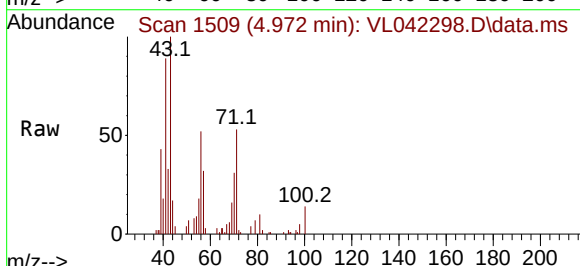
Acq: 10 Apr 2025 07:54

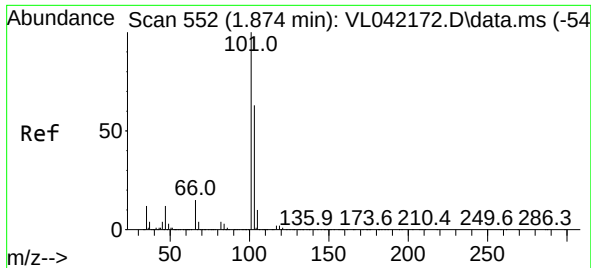
Tgt Ion: 43 Resp: 11908

Ion Ratio Lower Upper

43 100

57 43.2 39.4 59.2





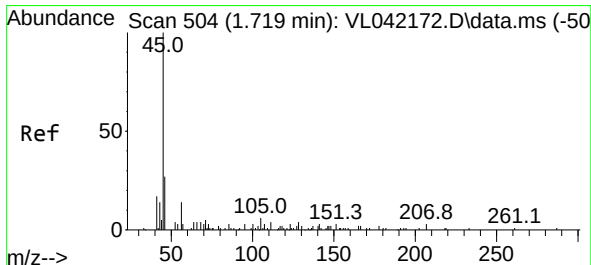
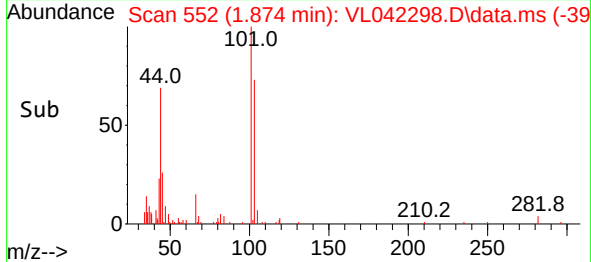
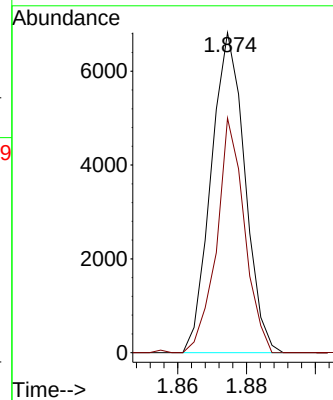
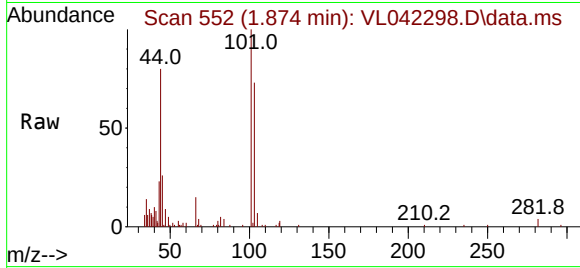
#11
 Trichlorofluoromethane
 Concen: 0.180 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion:101 Resp: 4644
 Ion Ratio Lower Upper
 101 100
 103 73.3 50.2 75.2

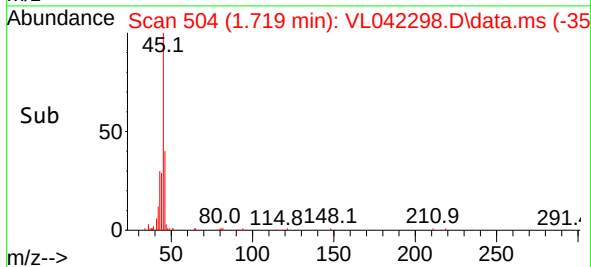
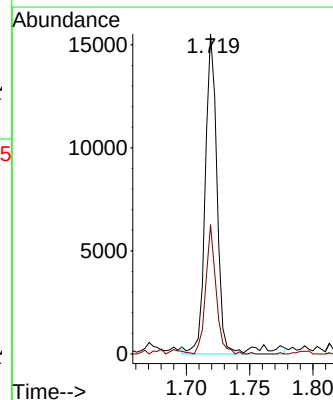
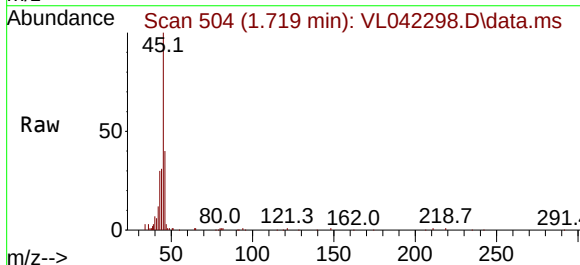
Manual Integrations
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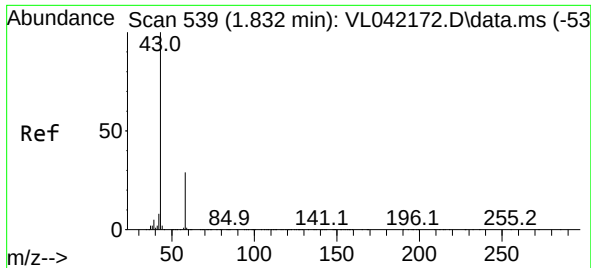
Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025



#13
 Ethanol
 Concen: 10.964 ppbv m
 RT: 1.719 min Scan# 504
 Delta R.T. -0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

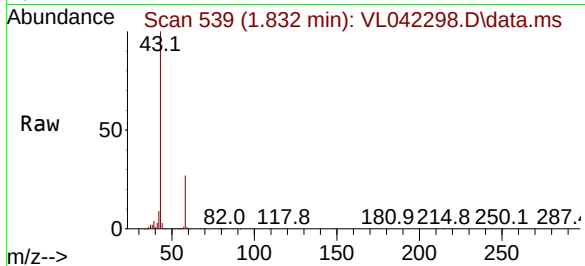
Tgt Ion: 45 Resp: 10466
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#





#15
Acetone
Concen: 24.430 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

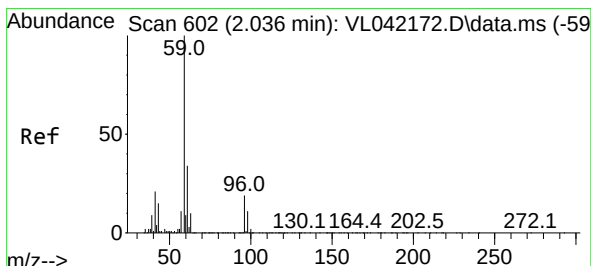
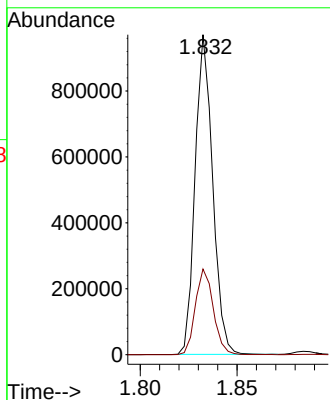
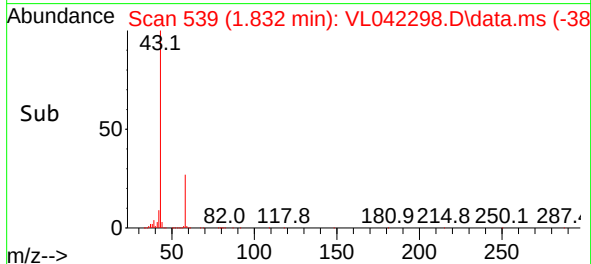
Instrument :
MSVOA_L
ClientSampleId :
SV1



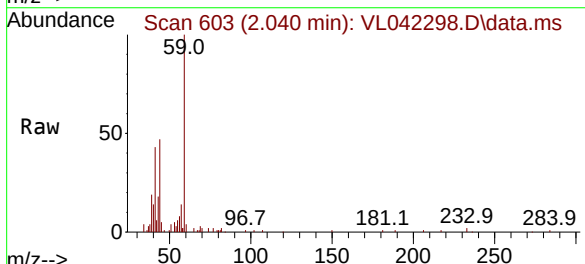
Tgt Ion: 43 Resp: 612810
Ion Ratio Lower Upper
43 100
58 27.4 23.2 34.8

Manual Integrations
APPROVED

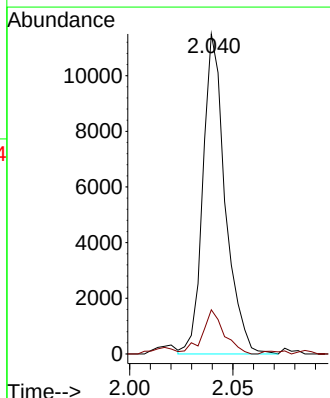
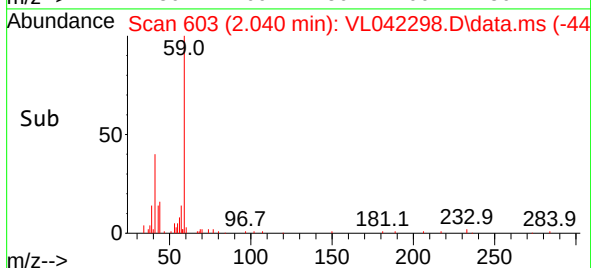
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025

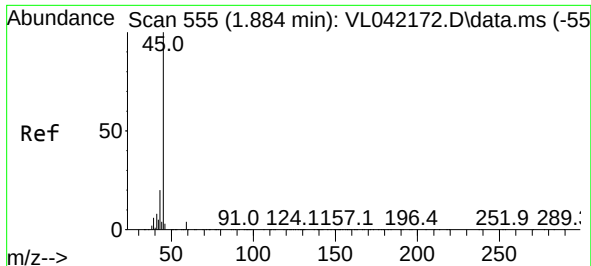


#17
tert-Butyl alcohol
Concen: 0.277 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54



Tgt Ion: 59 Resp: 8659
Ion Ratio Lower Upper
59 100
57 17.0 9.8 14.8





#19

Isopropyl Alcohol

Concen: 1.820 ppbv

RT: 1.884 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 45 Resp: 2576

Ion Ratio Lower Upper

45 100

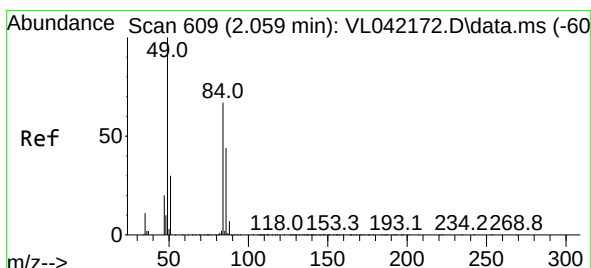
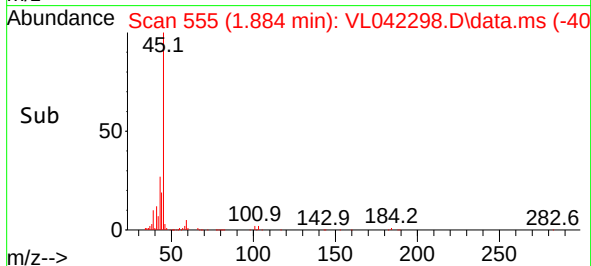
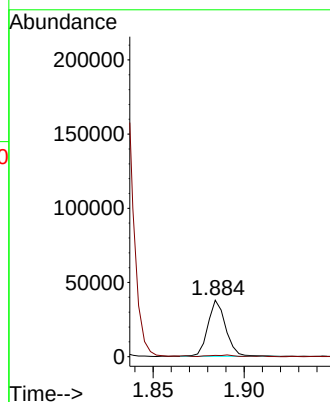
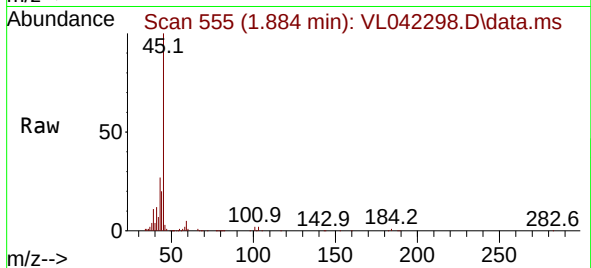
58 651.8 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025

Supervised By :Mahesh Dadoda 04/15/2025



#20

Methylene Chloride

Concen: 0.243 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Tgt Ion: 84 Resp: 2267

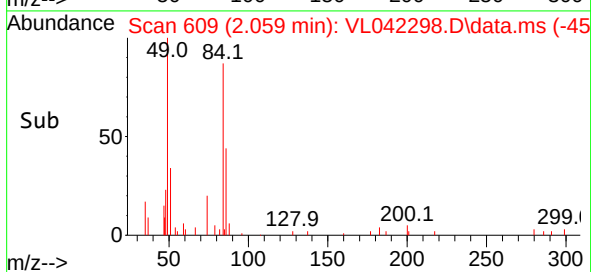
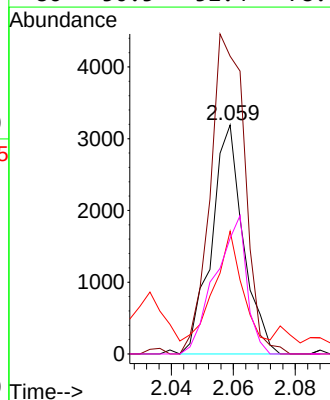
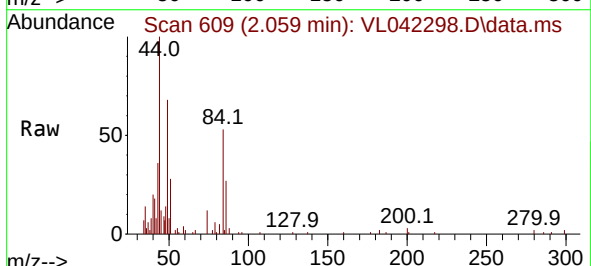
Ion Ratio Lower Upper

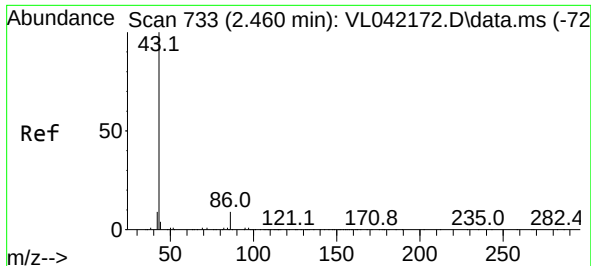
84 100

49 130.1 120.2 180.4

51 47.9 37.4 56.0

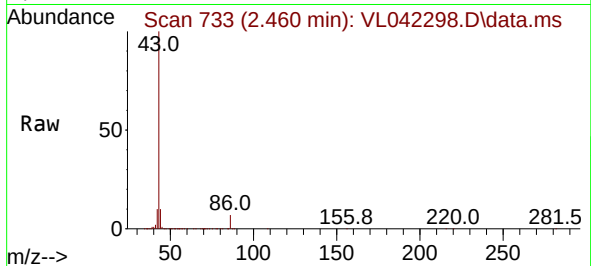
86 50.5 52.4 78.6





#23
 Vinyl Acetate
 Concen: 18.684 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

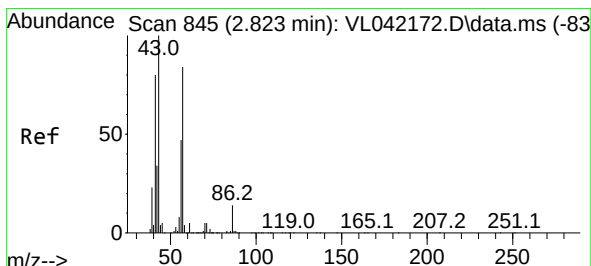
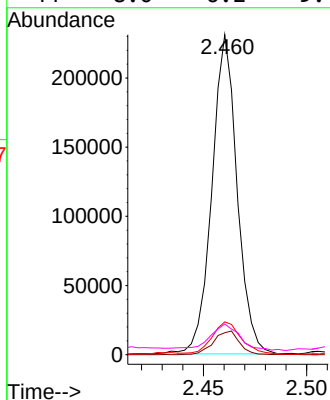
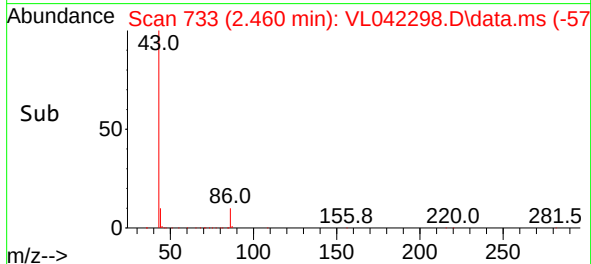
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 43 Resp: 194799
 Ion Ratio Lower Upper
 43 100
 86 6.9 5.5 8.3
 42 10.1 8.6 13.0
 44 8.0 6.2 9.4

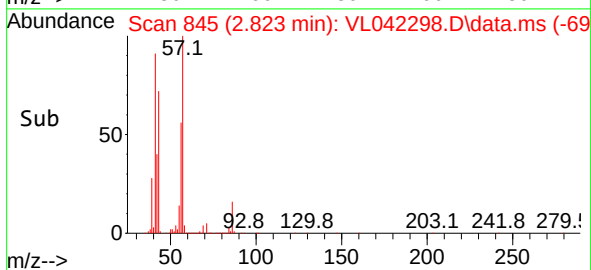
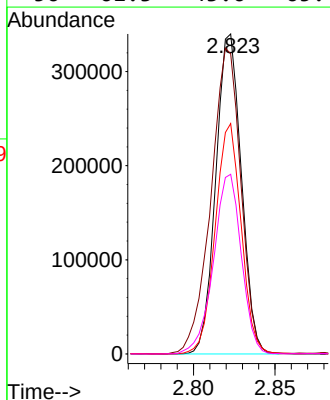
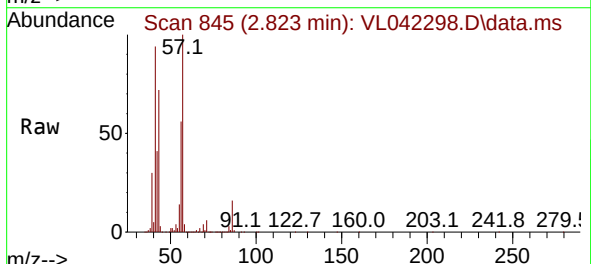
Manual Integrations
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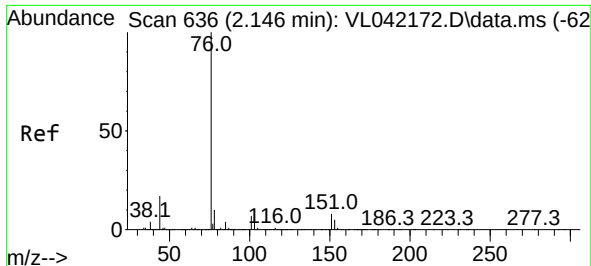
Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025



#26
 Hexane
 Concen: 14.729 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. 0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

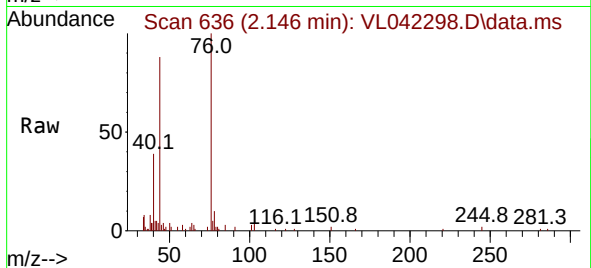
Tgt Ion: 57 Resp: 370399
 Ion Ratio Lower Upper
 57 100
 41 111.7 76.6 114.8
 43 73.1 207.8 311.8#
 56 61.3 43.6 65.4





#27
Carbon Disulfide
Concen: 0.201 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

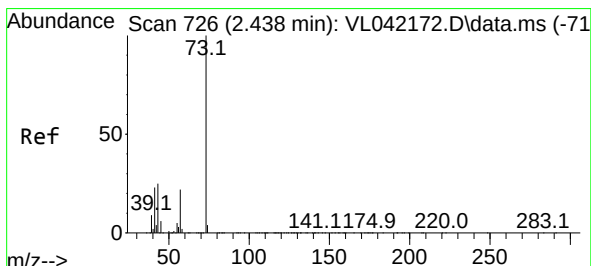
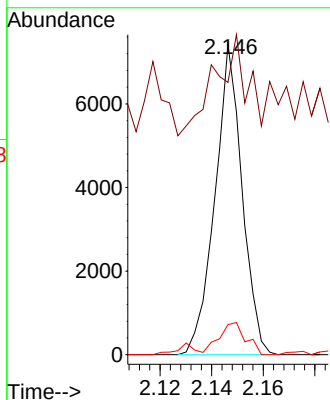
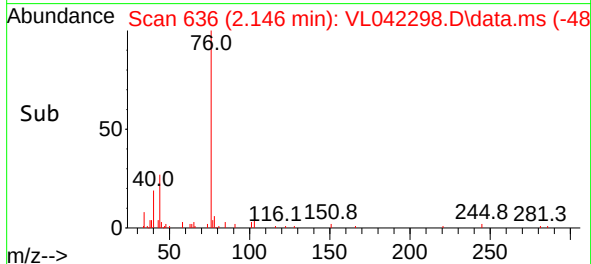
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 5418
Ion Ratio Lower Upper
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44 53.9 15.0 22.6
78 13.0 9.4 14.2

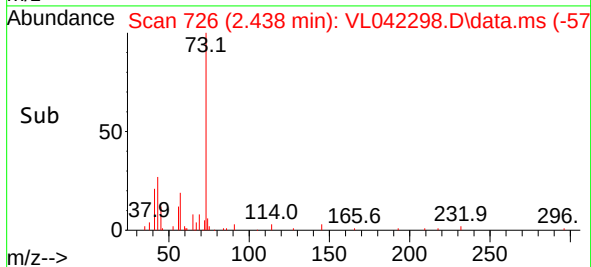
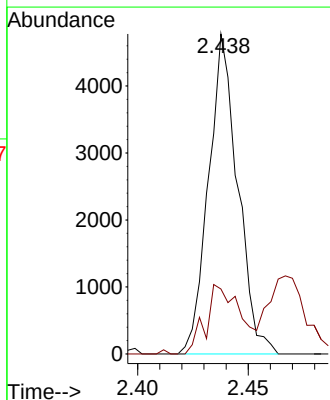
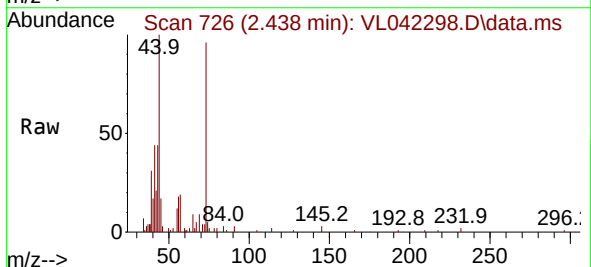
Manual Integrations
APPROVED

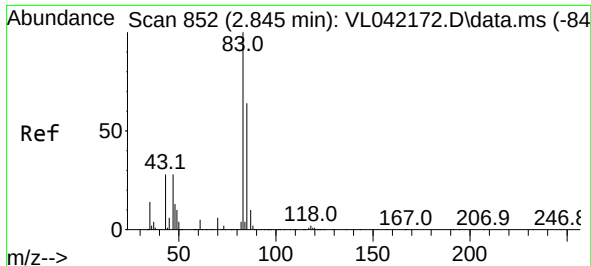
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#28
Methyl tert-Butyl Ether
Concen: 0.281 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion: 73 Resp: 4393
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





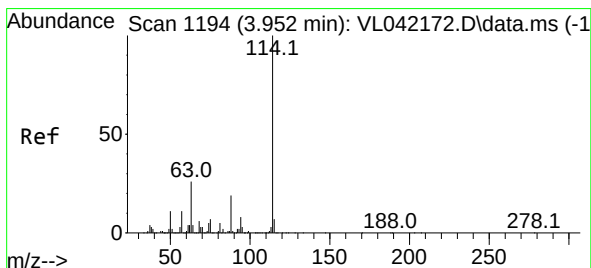
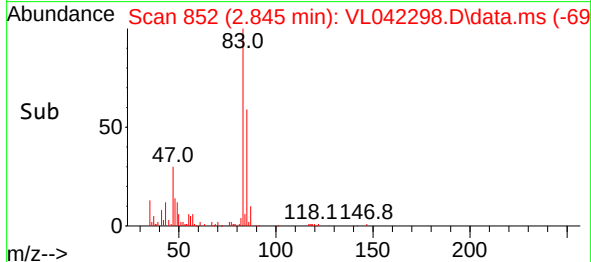
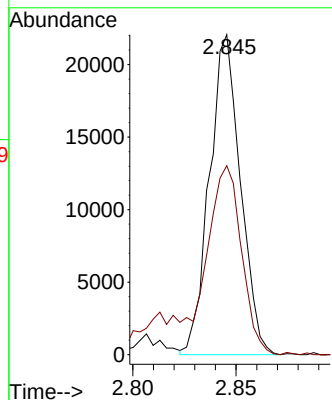
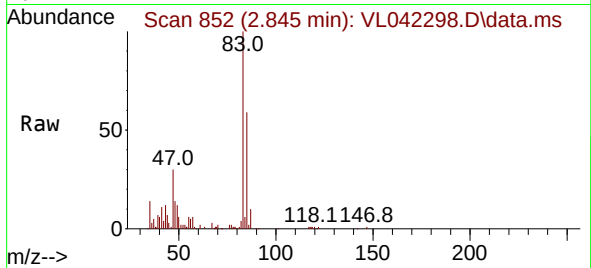
#29
Chloroform
Concen: 0.625 ppbv
RT: 2.845 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 2300
Ion Ratio Lower Upper
83 100
85 59.1 51.4 77.2

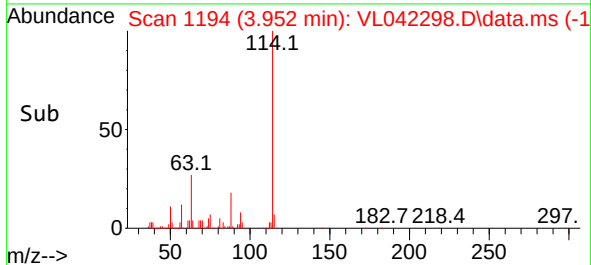
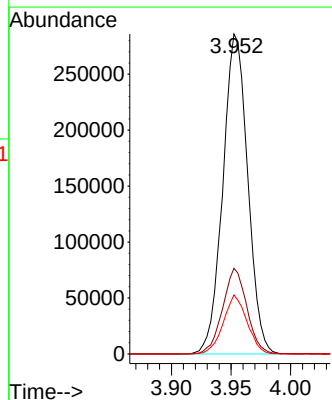
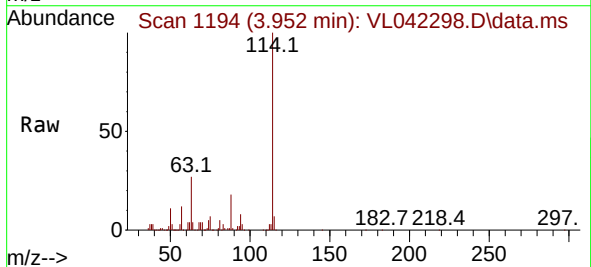
Manual Integrations
APPROVED

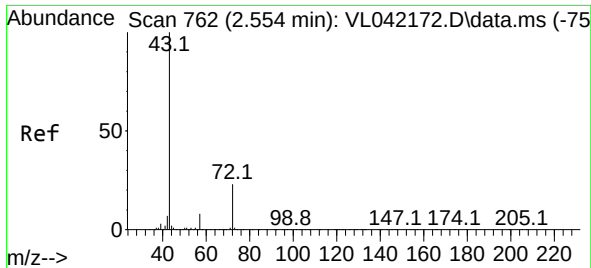
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

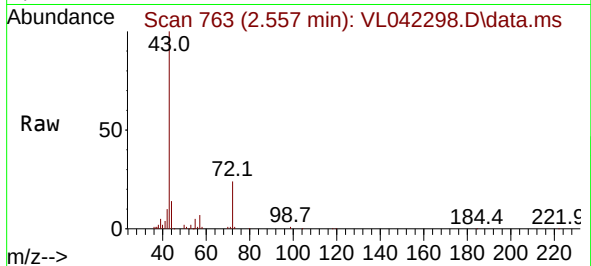
Tgt Ion:114 Resp: 415879
Ion Ratio Lower Upper
114 100
63 26.3 20.7 31.1
88 17.6 15.0 22.4





#34
2-Butanone
Concen: 0.706 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

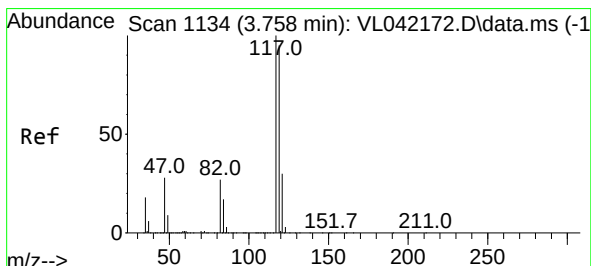
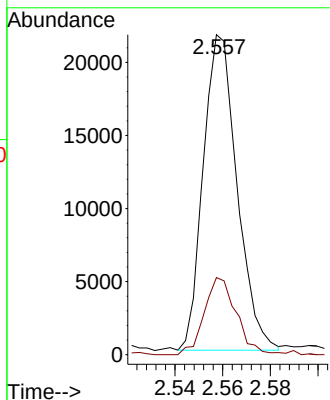
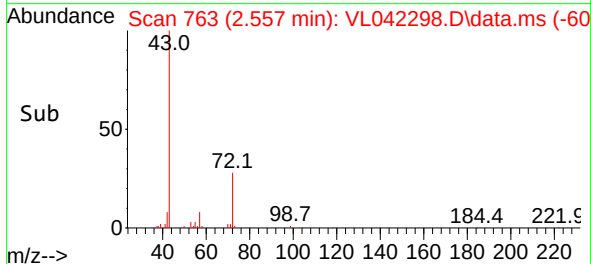
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 21284
Ion Ratio Lower Upper
43 100
72 23.6 18.2 27.2

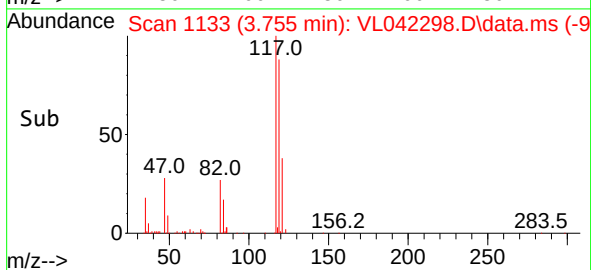
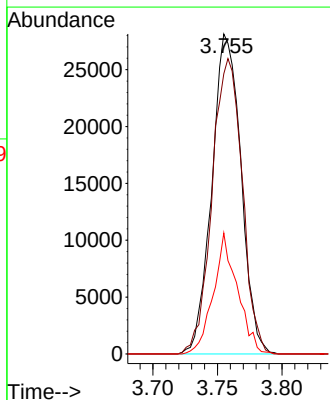
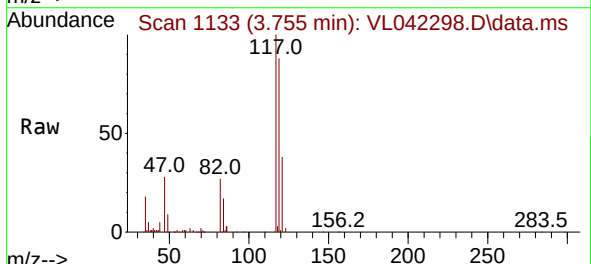
Manual Integrations
APPROVED

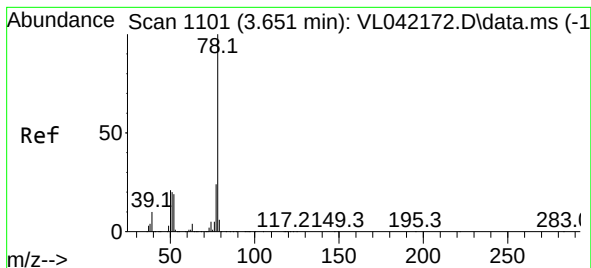
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#35
Carbon Tetrachloride
Concen: 1.381 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion:117 Resp: 44188
Ion Ratio Lower Upper
117 100
119 87.5 76.2 114.2
121 37.8 24.2 36.4#





#36

Benzene

Concen: 0.198 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

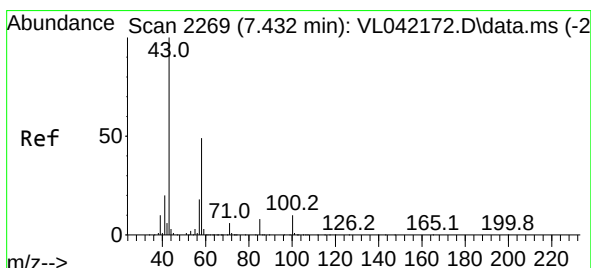
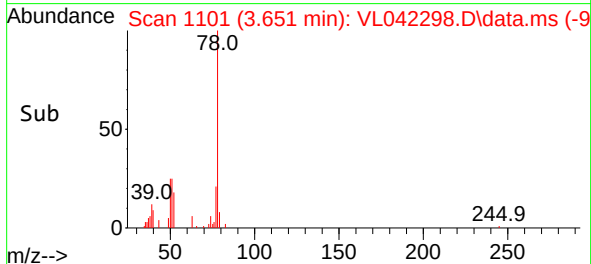
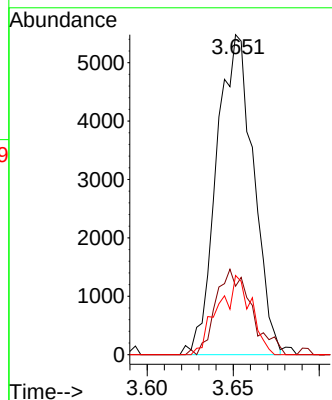
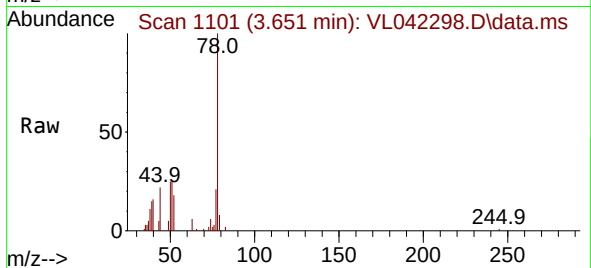
SV1

Tgt Ion: 78	Resp: 815
Ion Ratio	Lower Upper
78 100	
77 21.4	19.1 28.7
50 24.7	16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#51

2-Hexanone

Concen: 0.323 ppbv

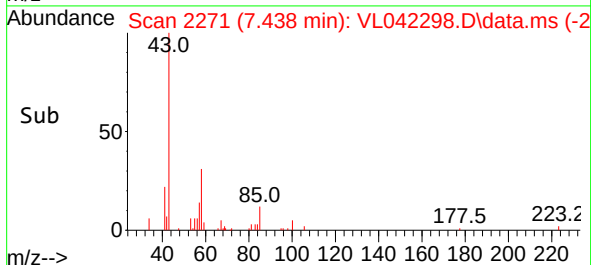
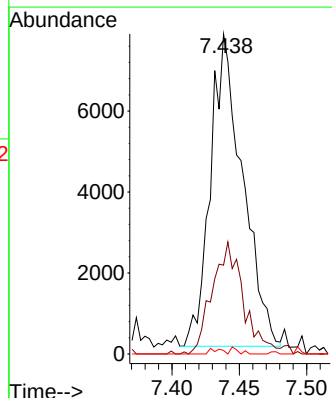
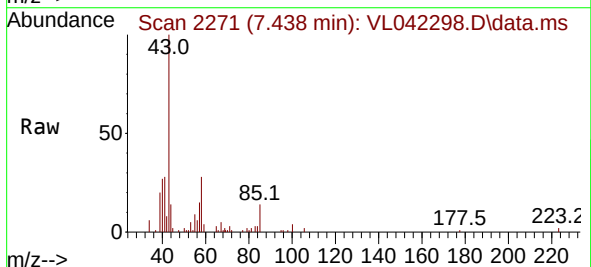
RT: 7.438 min Scan# 2271

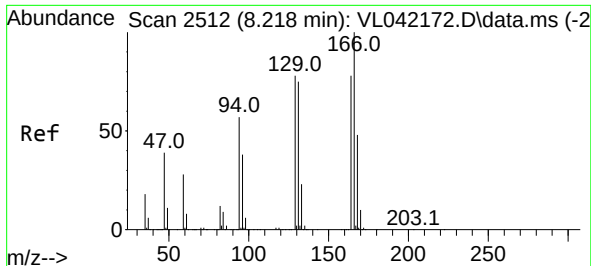
Delta R.T. 0.006 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

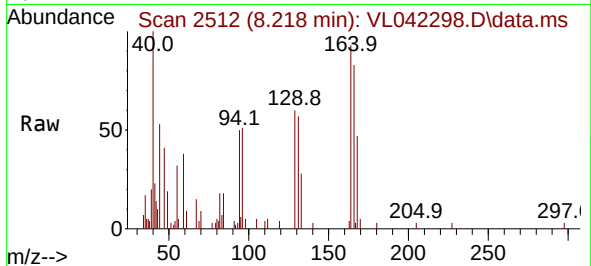
Tgt Ion: 43	Resp: 12828
Ion Ratio	Lower Upper
43 100	
58 35.4	39.6 59.4#
98 1.2	0.1 0.1#





#52
Tetrachloroethene
Concen: 0.169 ppbv m
RT: 8.218 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

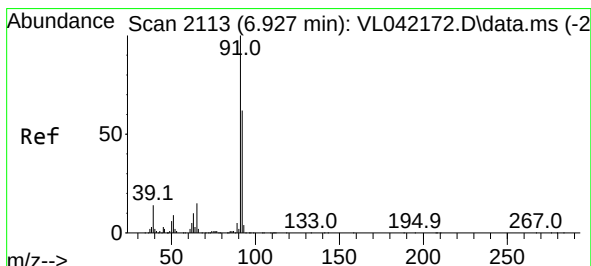
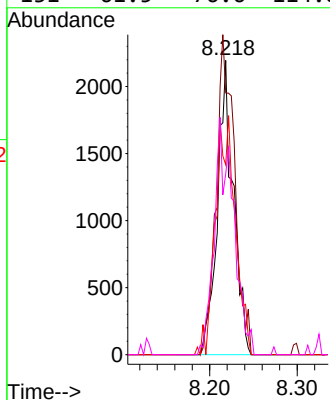
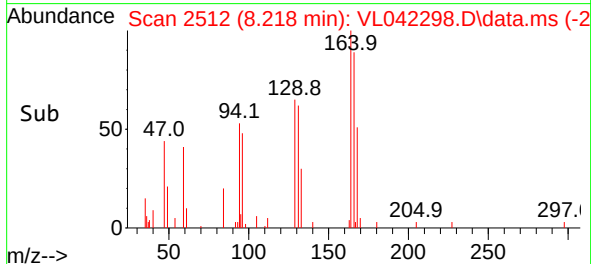
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 2768
Ion Ratio Lower Upper
164 100
166 88.9 102.5 153.7
129 64.5 79.8 119.8
131 61.5 76.6 114.8

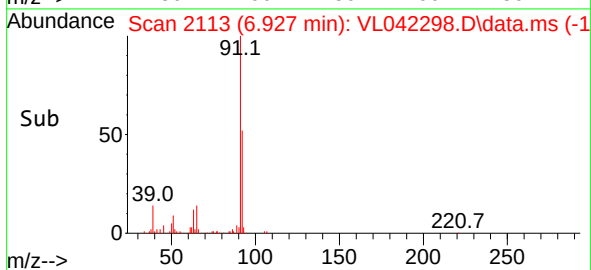
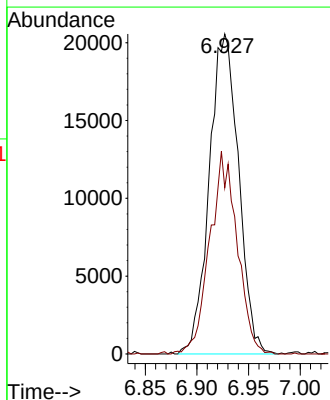
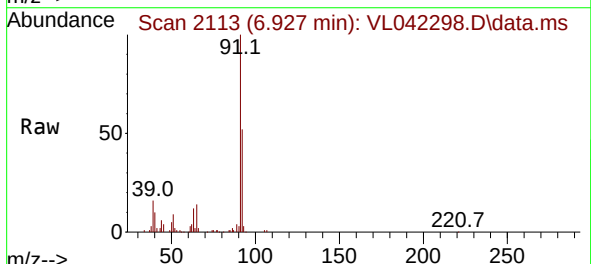
Manual Integrations
APPROVED

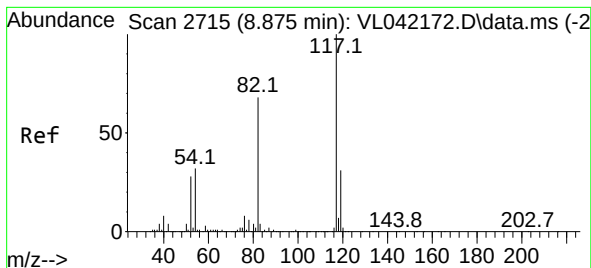
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#53
Toluene
Concen: 0.830 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion: 91 Resp: 40569
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

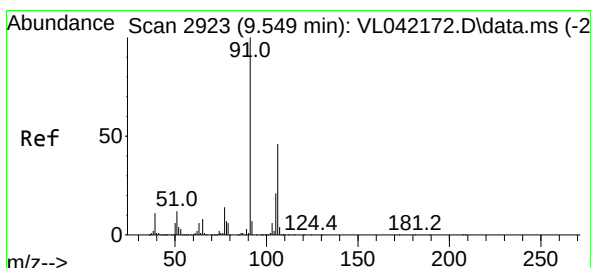
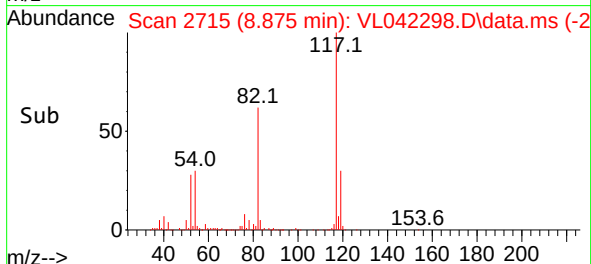
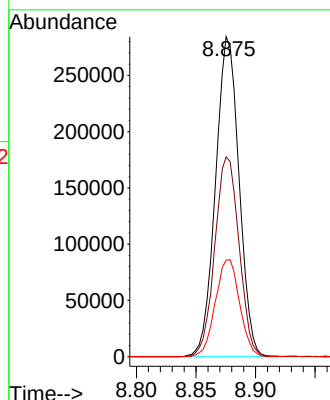
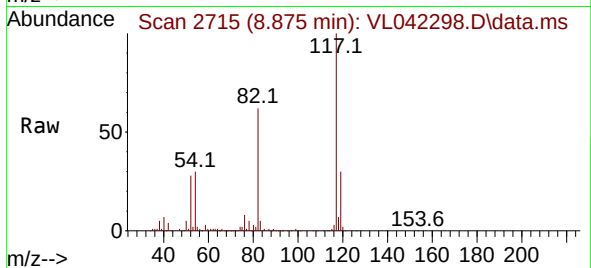
SV1

Tgt Ion:	117	Resp:	39018
Ion Ratio	Lower	Upper	
117	100		
82	64.3	55.8	83.6
119	31.5	25.5	38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#59

m/p-Xylene

Concen: 0.266 ppbv m

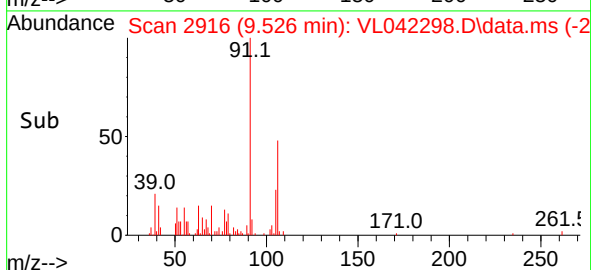
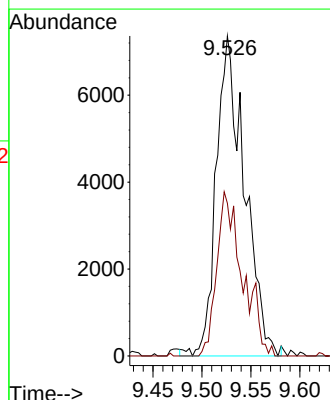
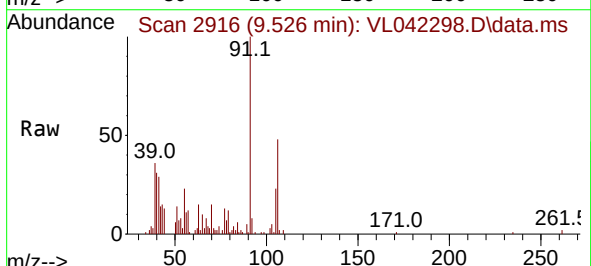
RT: 9.526 min Scan# 2916

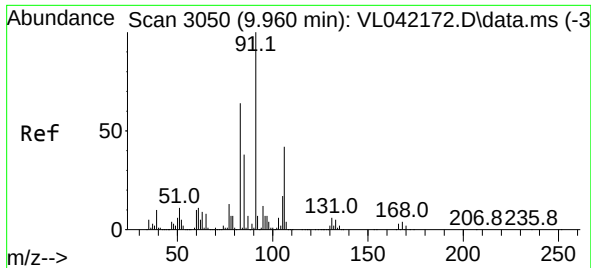
Delta R.T. -0.023 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Tgt Ion:	91	Resp:	14715
Ion Ratio	Lower	Upper	
91	100		
106	0.0	0.0	0.0





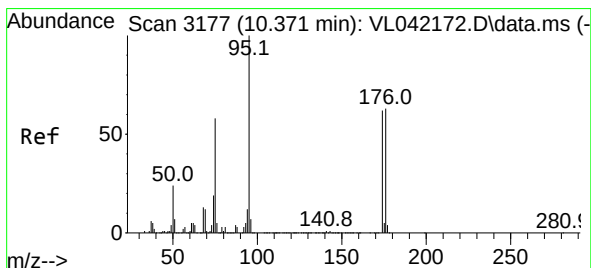
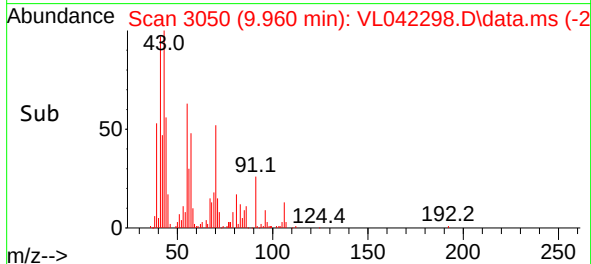
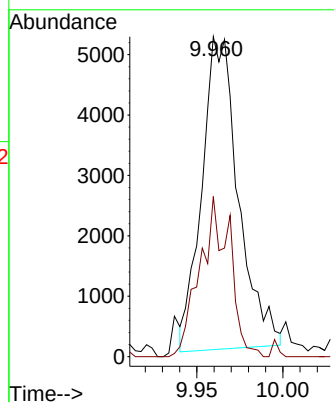
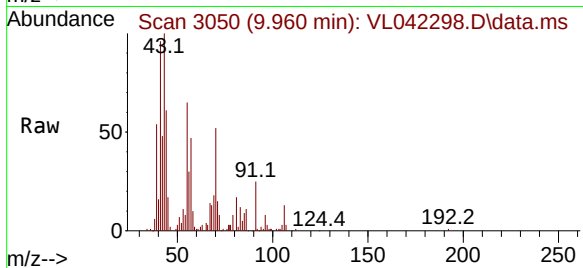
#60
o-Xylene
Concen: 0.138 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 7654
Ion Ratio Lower Upper
91 100
106 42.9 20.8 62.5

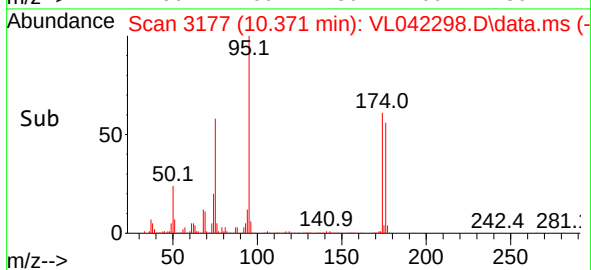
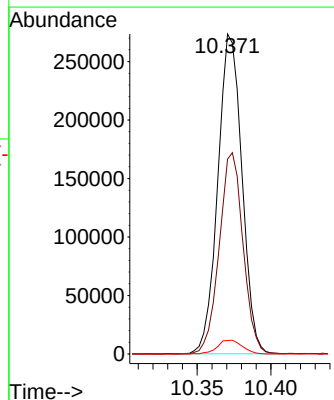
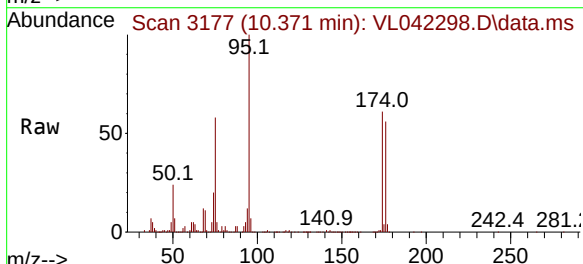
Manual Integrations
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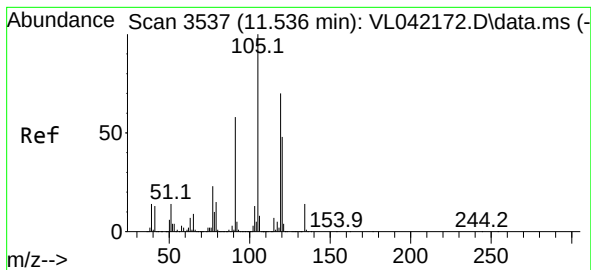
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.714 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

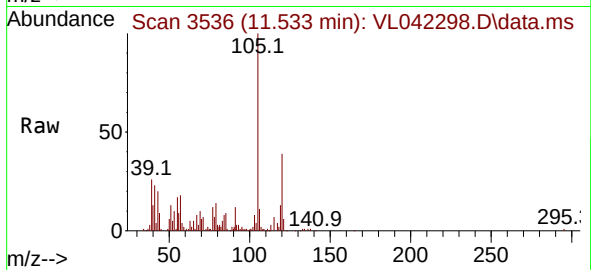
Tgt Ion: 95 Resp: 311260
Ion Ratio Lower Upper
95 100
174 62.3 50.7 76.1
175 4.4 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.261 ppbv
 RT: 11.533 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	18114
Ion	Ratio	Lower	Upper
105	100		
120	39.3	38.6	58.0
91	8.6	46.2	69.2
77	7.4	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025

