

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042336.D
 Acq On : 15 Apr 2025 17:14
 Operator : SY/MD
 Sample : Q1802-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:34:27 2025

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.816	49	187159	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	4.001	114	441424	10.000	ppbv	0.05
55) Chlorobenzene-d5	8.917	117	401113	10.000	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.406 95 347560 10.551 ppbv 0.04
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	3034	0.110	ppbv	93
9) Propene	1.492	41	8160	0.631	ppbv	96
10) Heptane	5.030	43	3593m	0.104	ppbv	
13) Ethanol	1.735	45	27277	22.300	ppbv #	27
15) Acetone	1.855	43	36128	1.380	ppbv #	4
20) Methylene Chloride	2.081	84	2029	0.208	ppbv #	81
26) Hexane	2.858	57	4910	0.187	ppbv #	1
29) Chloroform	2.877	83	95381	2.484	ppbv	96
31) cis-1,2-Dichloroethene	2.748	61	21485	0.807	ppbv	94
34) 2-Butanone	2.583	43	200144	6.253	ppbv	97
38) Trichloroethene	4.593	130	78558	4.302	ppbv	92
44) 2,2,4-Trimethylpentane	4.690	57	16864	0.228	ppbv #	56
51) 2-Hexanone	7.486	43	30458	0.731	ppbv #	82
52) Tetrachloroethene	8.270	164	1681038	96.862	ppbv	95
53) Toluene	6.985	91	26241	0.506	ppbv	100
58) Ethyl Benzene	9.386	91	7529	0.106	ppbv	97
59) m/p-Xylene	9.561	91	28519	0.501	ppbv	98
60) o-Xylene	9.995	91	17051	0.299	ppbv	88
73) 1,3,5-Trimethylbenzene	11.234	105	12448m	0.201	ppbv	
74) 1,2,4-Trimethylbenzene	11.561	105	36517	0.511	ppbv #	67

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

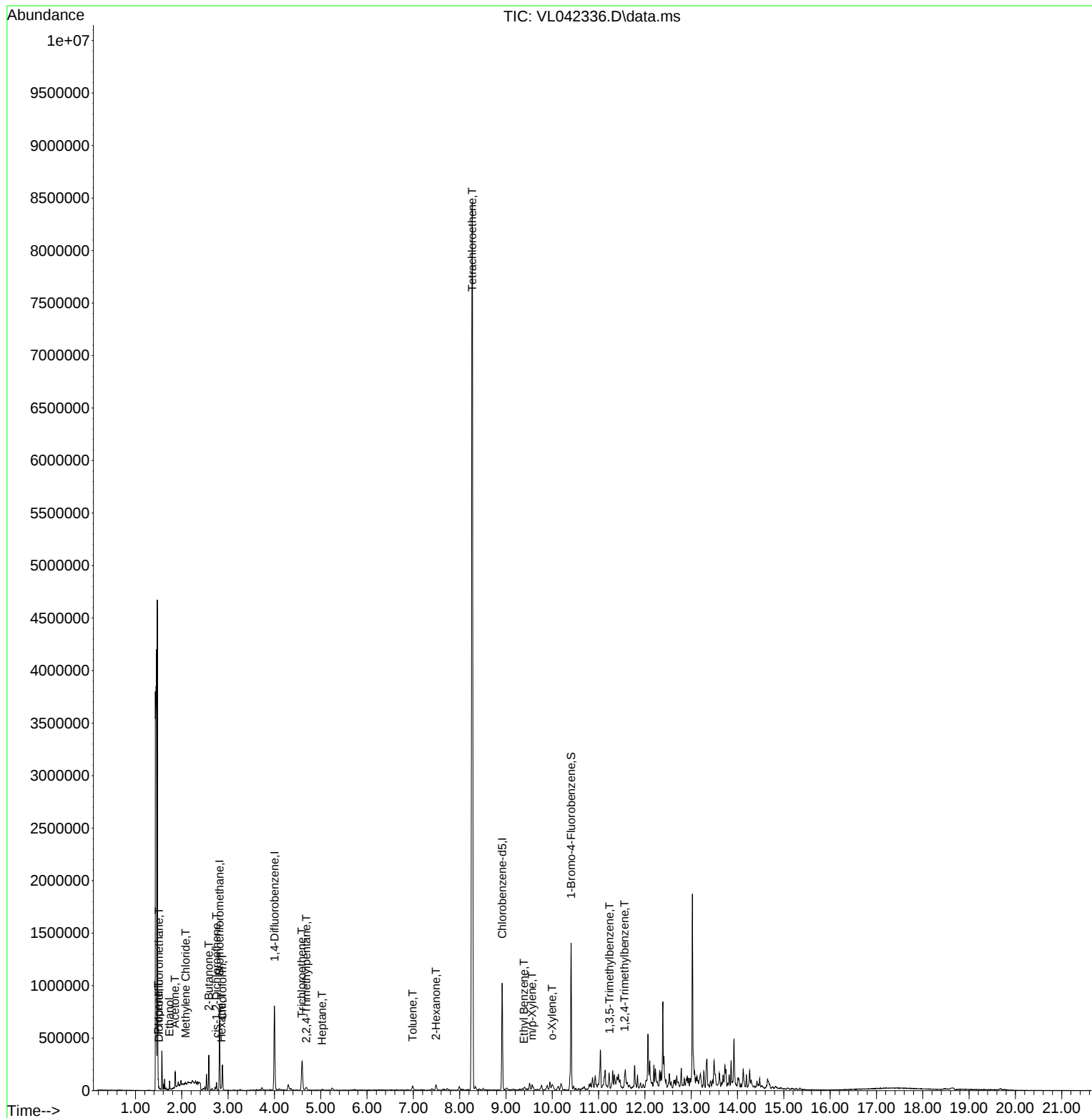
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042336.D
Acq On : 15 Apr 2025 17:14
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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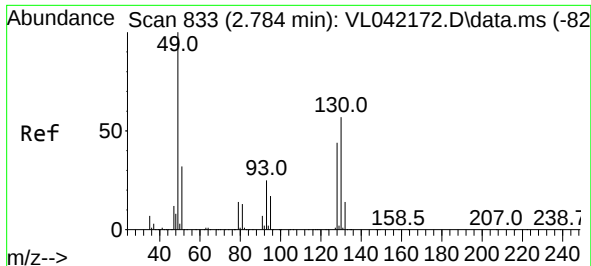
Instrument :
MSVOA_L
ClientSampleId :
SV1

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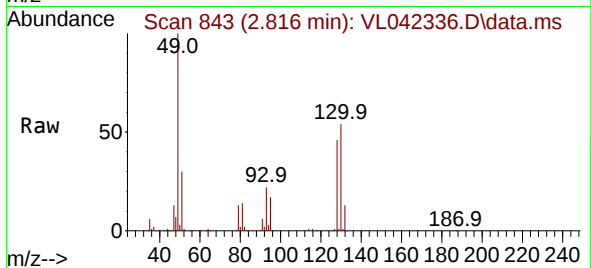
Quant Time: Apr 16 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.032 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

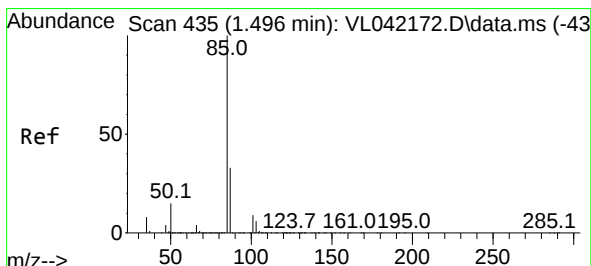
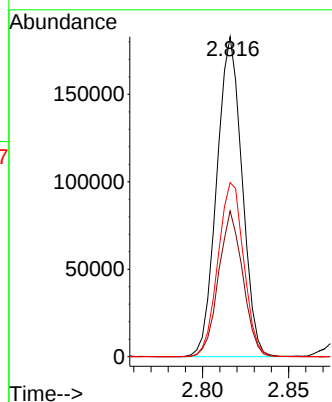
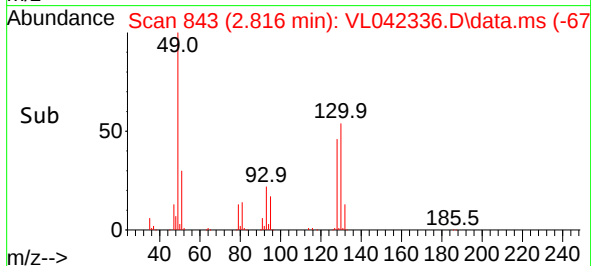
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 187159
Ion Ratio Lower Upper
49 100
128 43.7 22.9 68.5
130 55.4 28.8 86.4

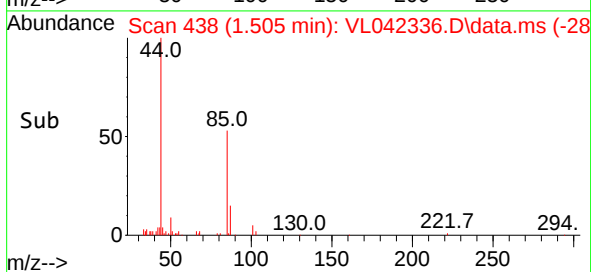
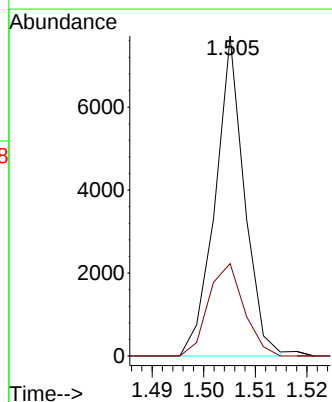
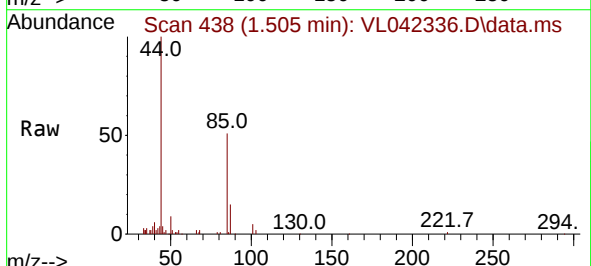
Manual Integrations
APPROVED

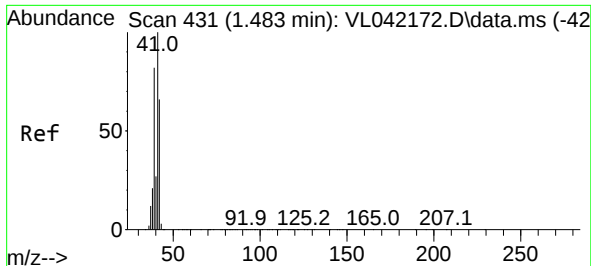
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Tgt Ion: 85 Resp: 3034
Ion Ratio Lower Upper
85 100
87 28.9 26.1 39.1





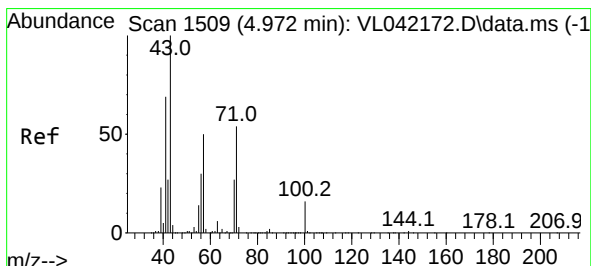
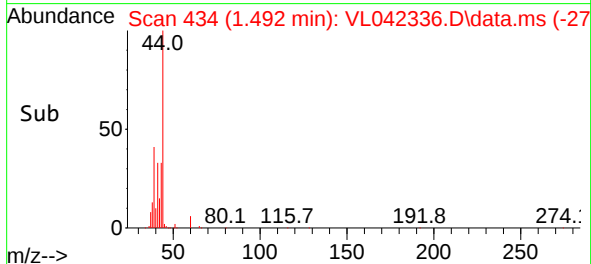
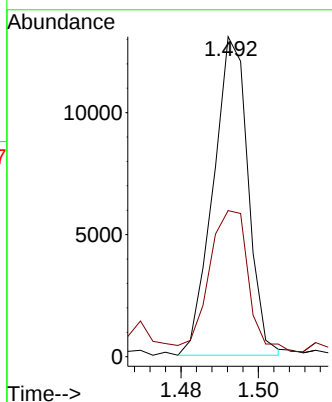
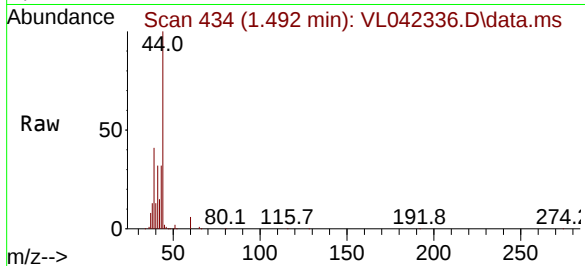
#9
Propene
Concen: 0.631 ppbv
RT: 1.492 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 41 Resp: 8160
Ion Ratio Lower Upper
41 100
42 72.4 55.4 83.2

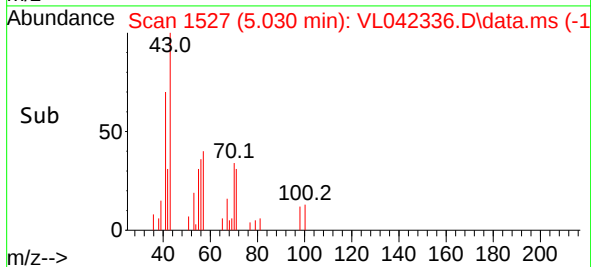
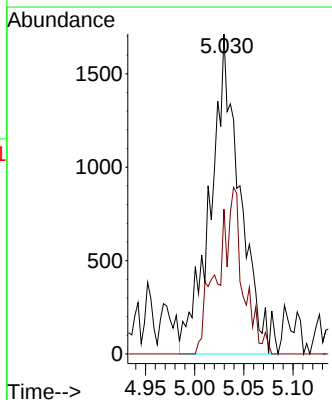
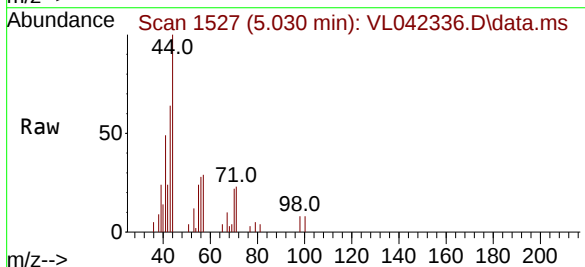
Manual Integrations
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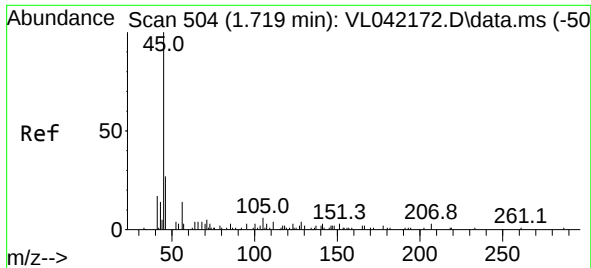
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#10
Heptane
Concen: 0.104 ppbv m
RT: 5.030 min Scan# 1527
Delta R.T. 0.058 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Tgt Ion: 43 Resp: 3593
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#





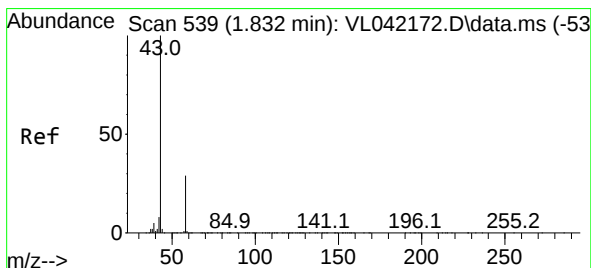
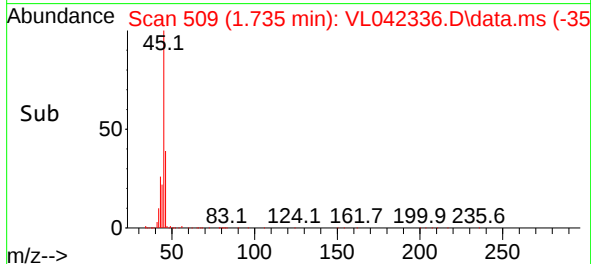
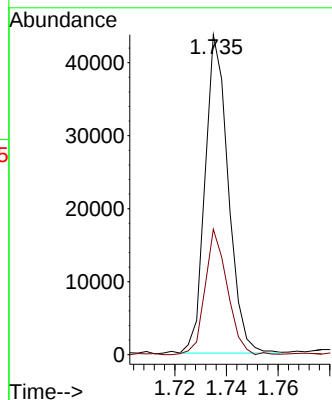
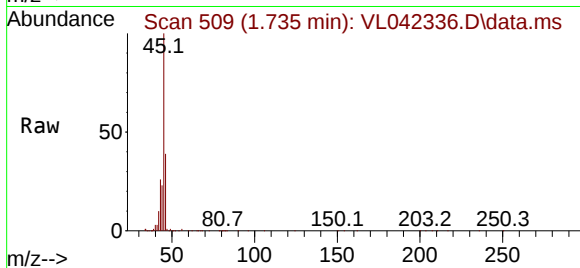
#13
Ethanol
Concen: 22.300 ppbv
RT: 1.735 min Scan# 509
Delta R.T. 0.016 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 2727
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8

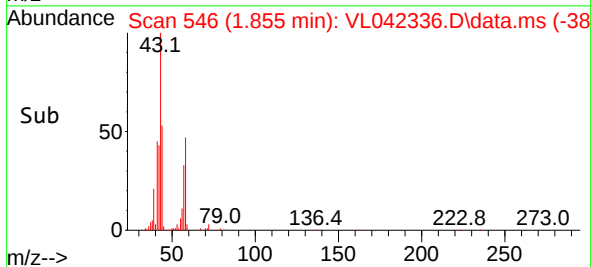
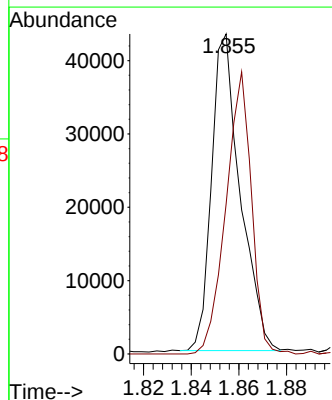
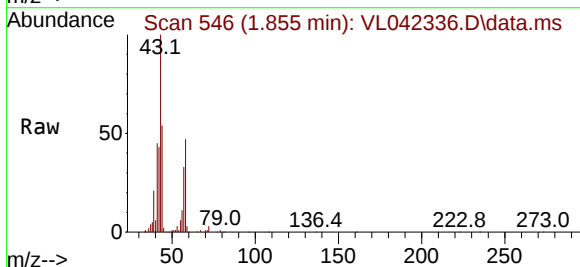
Manual Integrations
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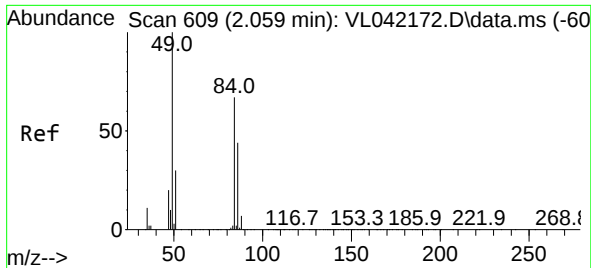
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#15
Acetone
Concen: 1.380 ppbv
RT: 1.855 min Scan# 546
Delta R.T. 0.022 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

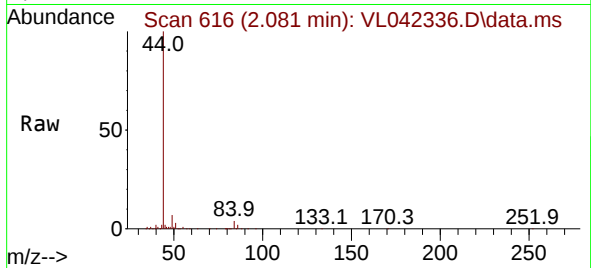
Tgt Ion: 43 Resp: 36128
Ion Ratio Lower Upper
43 100
58 80.2 23.2 34.8





#20
Methylene Chloride
Concen: 0.208 ppbv
RT: 2.081 min Scan# 616
Delta R.T. 0.022 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

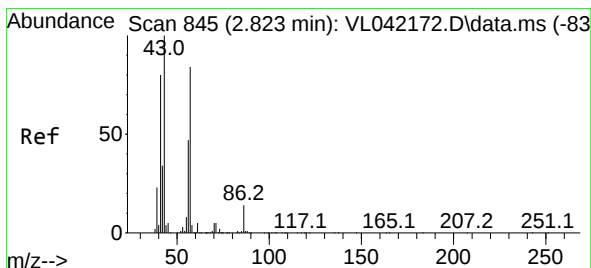
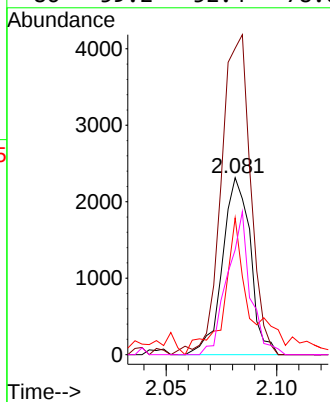
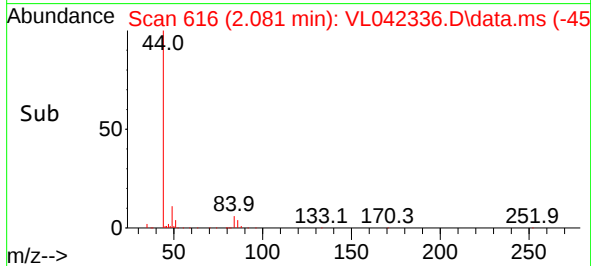
Instrument :
MSVOA_L
Client Sample Id :
SV1



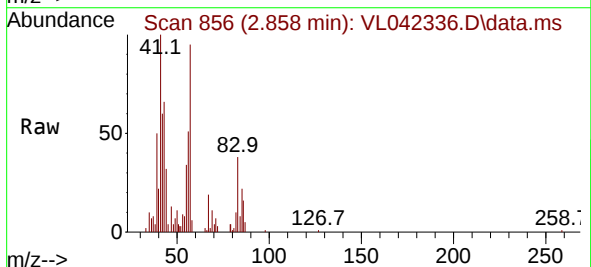
Tgt Ion: 84 Resp: 2029
Ion Ratio Lower Upper
84 100
49 173.2 120.2 180.4
51 73.4 37.4 56.0
86 59.2 52.4 78.6

Manual Integrations
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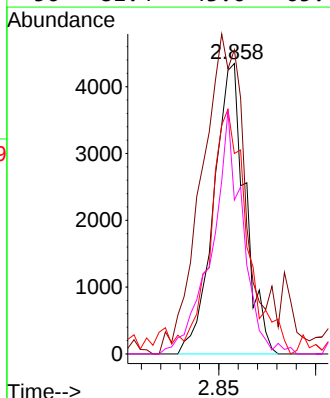
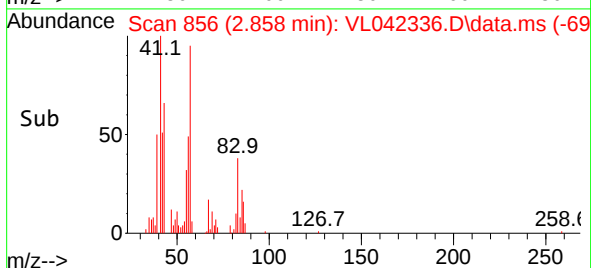
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

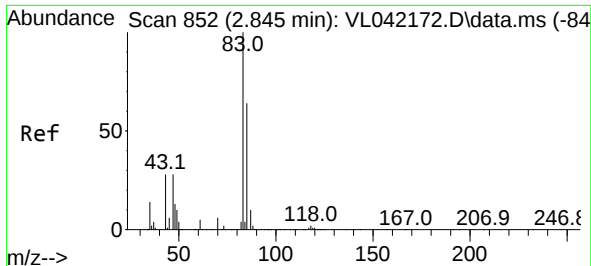


#26
Hexane
Concen: 0.187 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.035 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14



Tgt Ion: 57 Resp: 4910
Ion Ratio Lower Upper
57 100
41 168.0 76.6 114.8#
43 0.0 207.8 311.8#
56 81.4 43.6 65.4#





#29

Chloroform

Concen: 2.484 ppbv

RT: 2.877 min Scan# 80

Delta R.T. 0.032 min

Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 9538

Ion Ratio Lower Upper

83 100

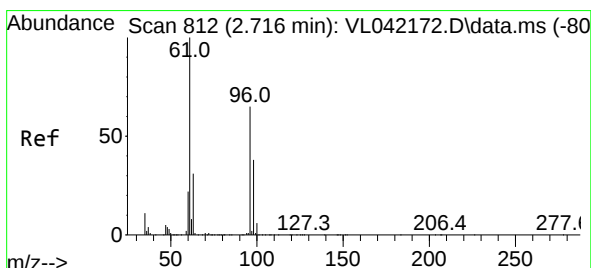
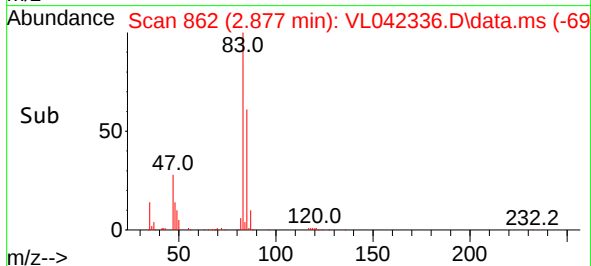
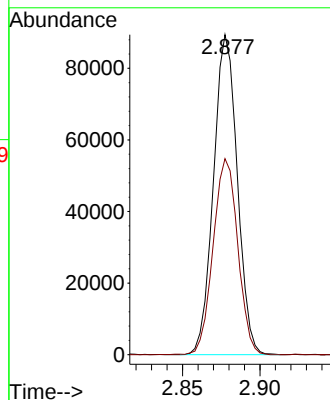
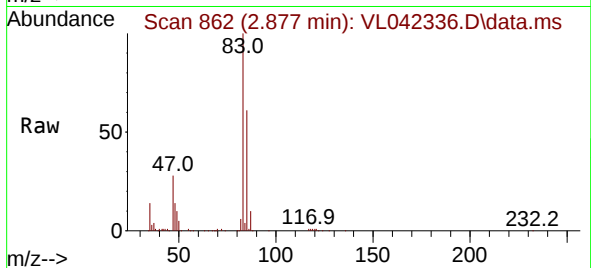
85 61.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#31

cis-1,2-Dichloroethene

Concen: 0.807 ppbv

RT: 2.748 min Scan# 822

Delta R.T. 0.032 min

Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

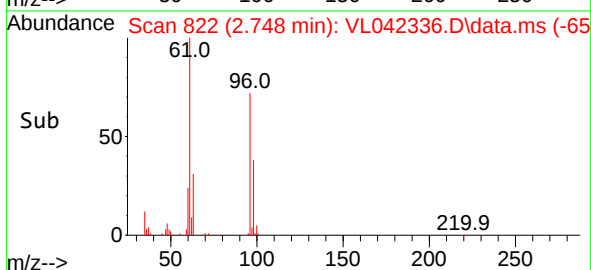
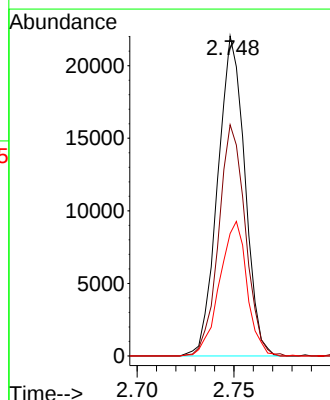
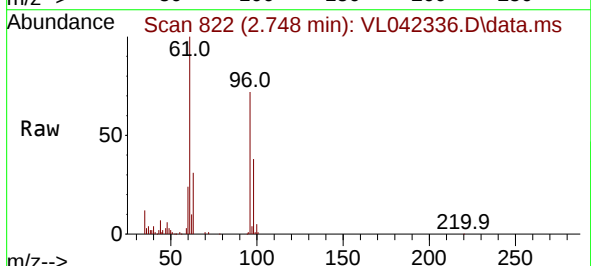
Tgt Ion: 61 Resp: 21485

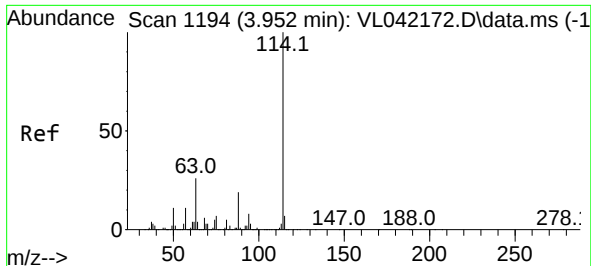
Ion Ratio Lower Upper

61 100

96 72.2 51.8 77.8

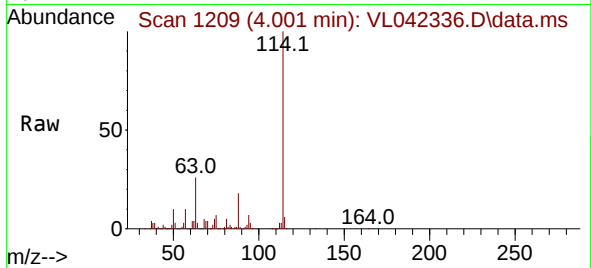
98 38.3 30.6 46.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 4.001 min Scan# 1194
Delta R.T. 0.048 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

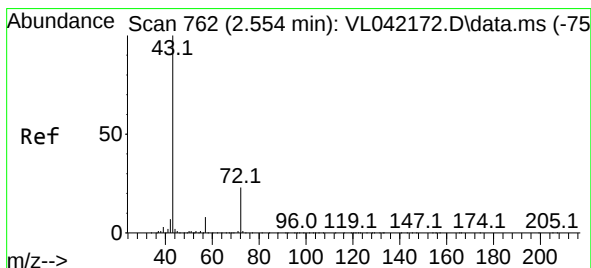
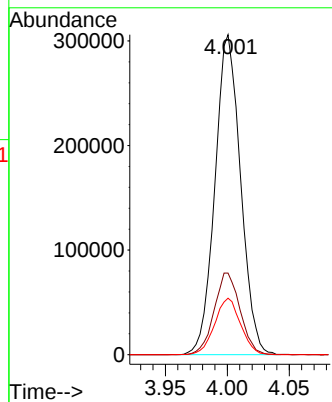
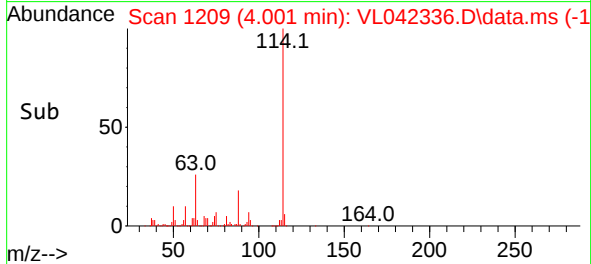
Instrument :
MSVOA_L
ClientSampleId :
SV1



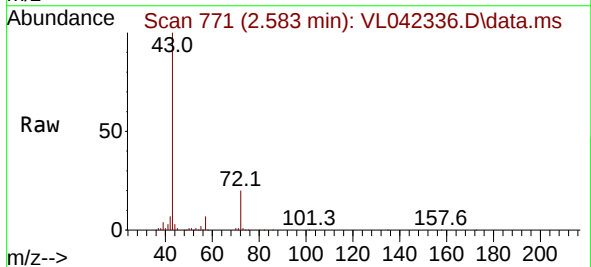
Tgt Ion:114 Resp: 441424
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.8 15.0 22.4

Manual Integrations
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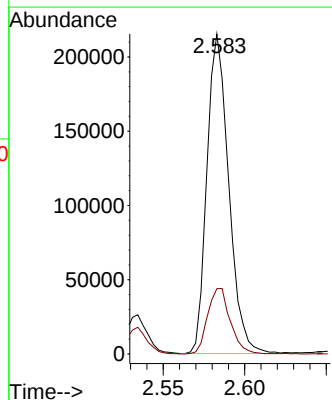
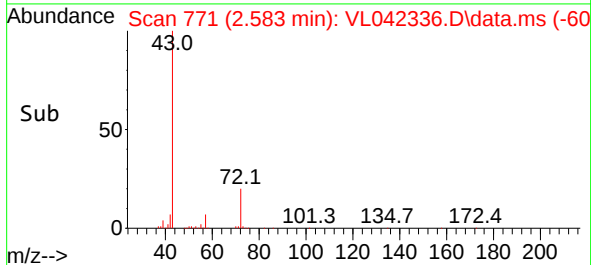
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

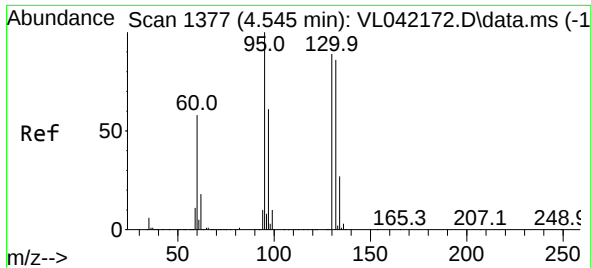


#34
2-Butanone
Concen: 6.253 ppbv
RT: 2.583 min Scan# 771
Delta R.T. 0.029 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14



Tgt Ion: 43 Resp: 200144
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2





#38

Trichloroethene

Concen: 4.302 ppbv

RT: 4.593 min Scan# 11

Delta R.T. 0.048 min

Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

Instrument :

MSVOA_L

ClientSampleId :

SV1

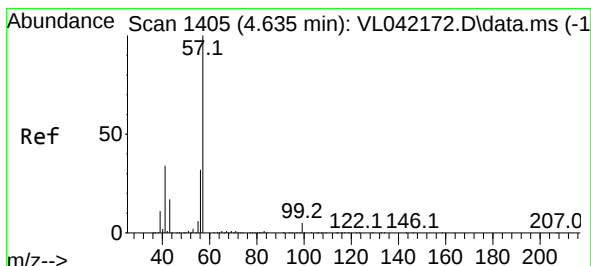
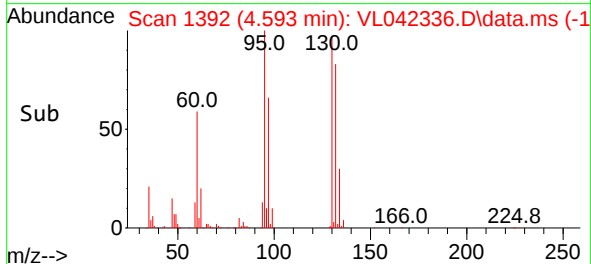
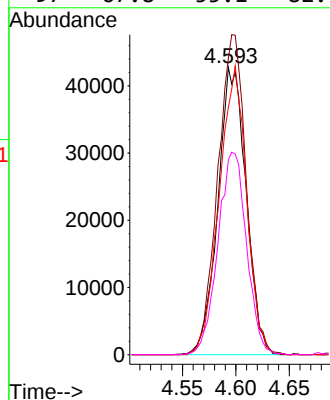
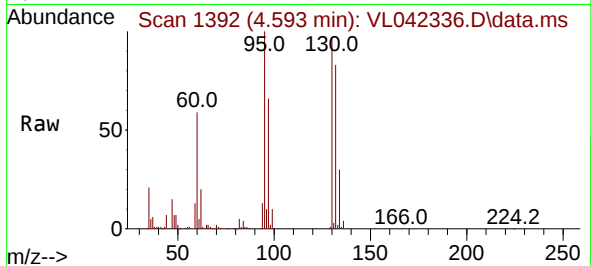
Tgt Ion:130 Resp: 7855

Ion	Ratio	Lower	Upper
130	100		
95	103.0	89.8	134.8
132	86.0	77.4	116.2
97	67.8	55.1	82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
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#44

2,2,4-Trimethylpentane

Concen: 0.228 ppbv

RT: 4.690 min Scan# 1422

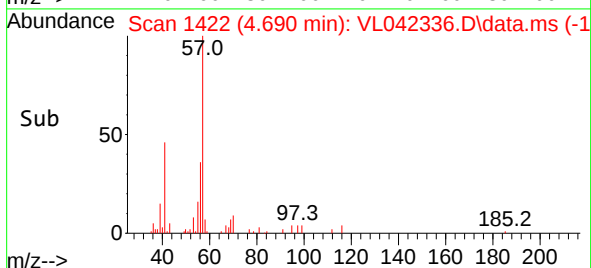
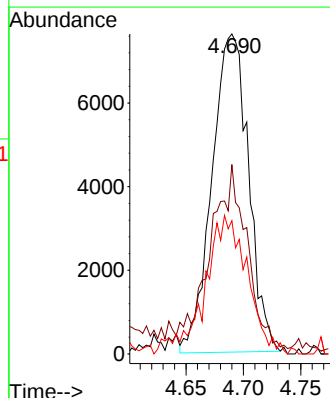
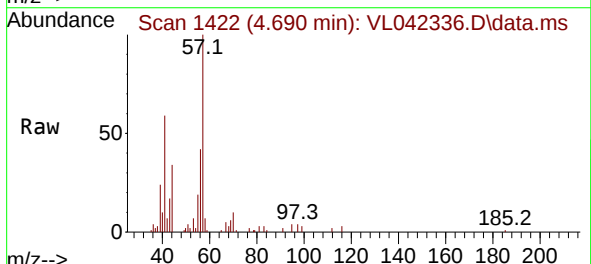
Delta R.T. 0.055 min

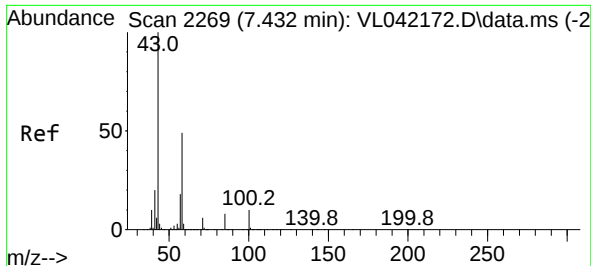
Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

Tgt Ion: 57 Resp: 16864

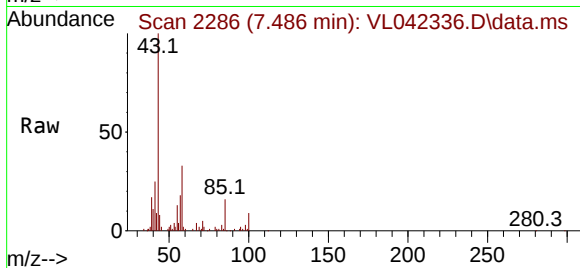
Ion	Ratio	Lower	Upper
57	100		
41	64.5	26.8	40.2#
56	50.6	25.6	38.4#





#51
2-Hexanone
Concen: 0.731 ppbv
RT: 7.486 min Scan# 21
Delta R.T. 0.055 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

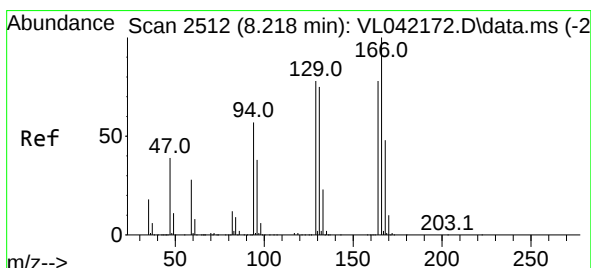
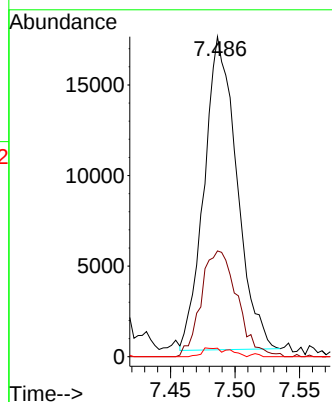
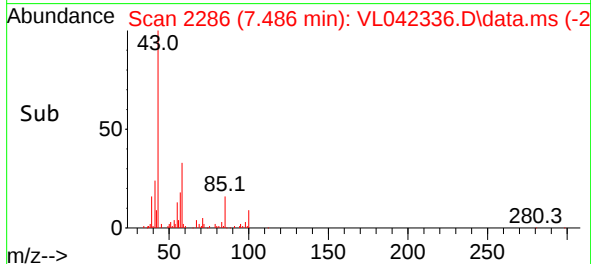
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 30458
Ion Ratio Lower Upper
43 100
58 37.4 39.7 59.5
98 2.6 0.1 0.1

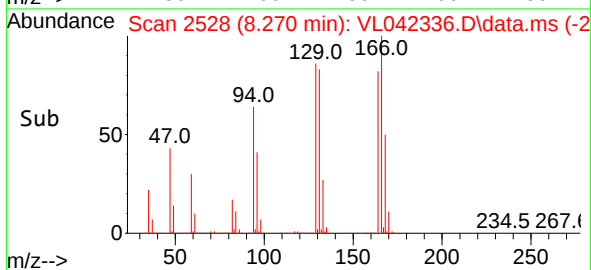
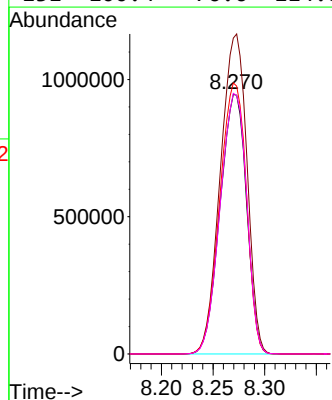
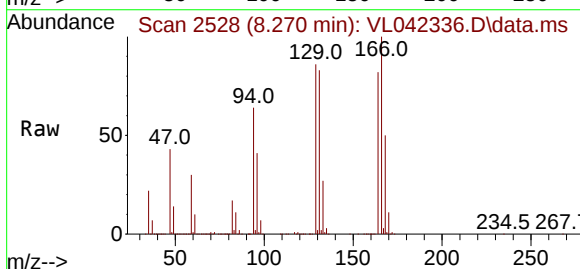
Manual Integrations
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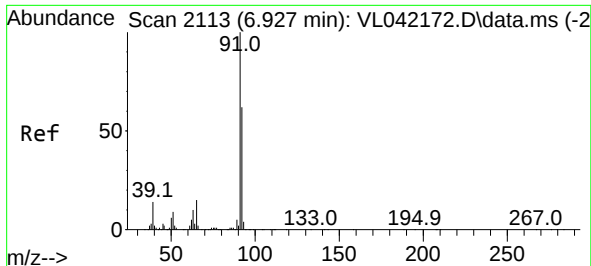
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#52
Tetrachloroethene
Concen: 96.862 ppbv
RT: 8.270 min Scan# 2528
Delta R.T. 0.051 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Tgt Ion:164 Resp: 1681038
Ion Ratio Lower Upper
164 100
166 121.7 102.5 153.7
129 104.4 79.8 119.8
131 100.4 76.6 114.8





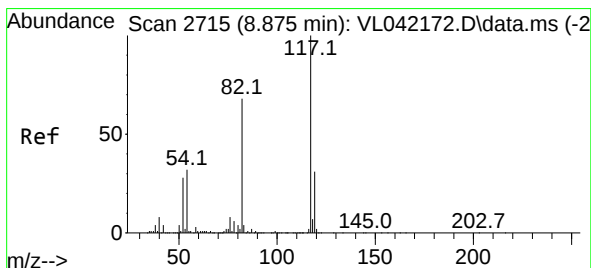
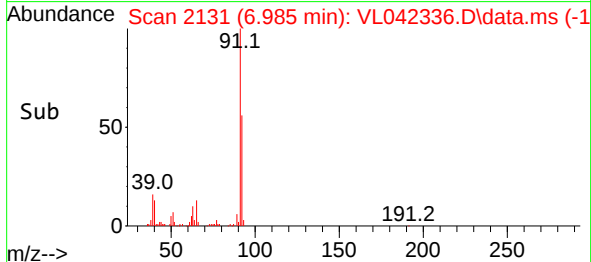
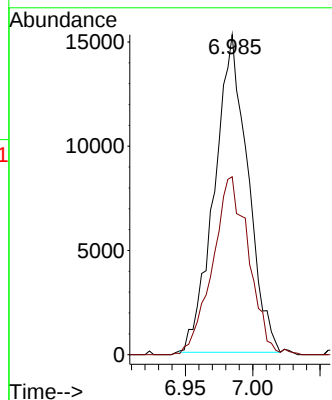
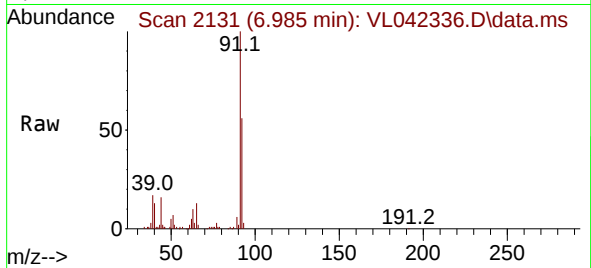
#53
Toluene
Concen: 0.506 ppbv
RT: 6.985 min Scan# 2113
Delta R.T. 0.058 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2624
Ion Ratio Lower Upper
91 100
92 60.8 48.4 72.6

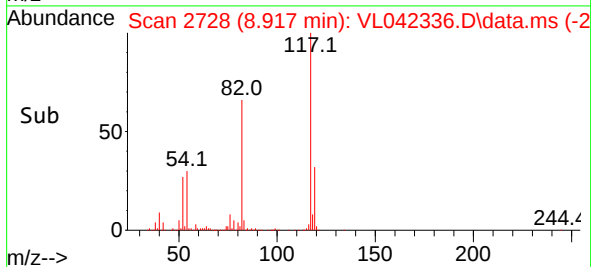
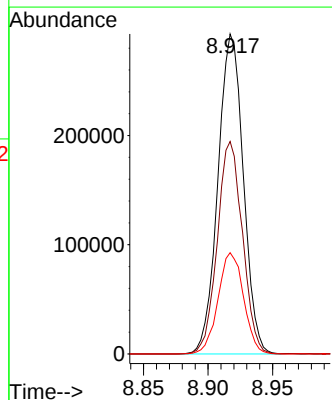
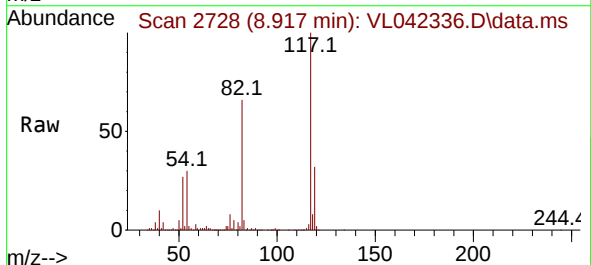
Manual Integrations
APPROVED

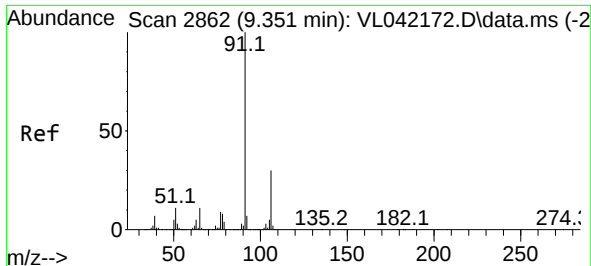
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

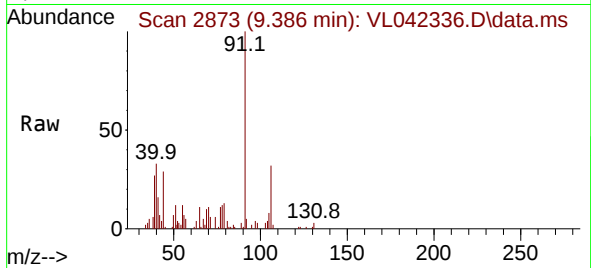
Tgt Ion:117 Resp: 401113
Ion Ratio Lower Upper
117 100
82 65.7 55.8 83.6
119 31.8 25.5 38.3





#58
Ethyl Benzene
Concen: 0.106 ppbv
RT: 9.386 min Scan# 2873
Delta R.T. 0.035 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

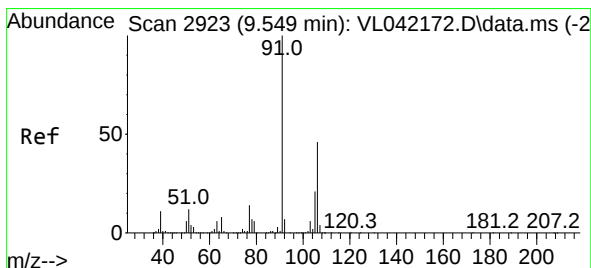
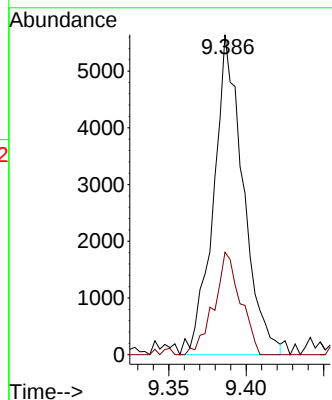
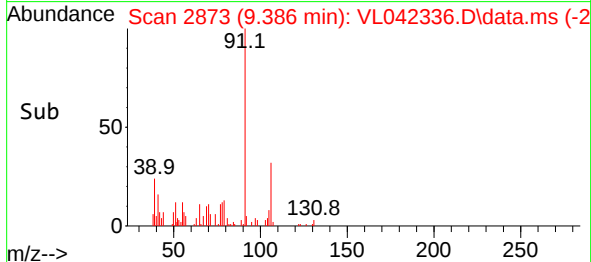
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 7529
Ion Ratio Lower Upper
91 100
106 32.0 24.2 36.2

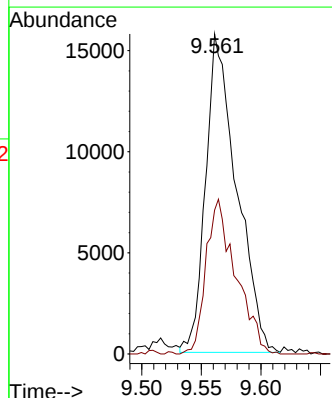
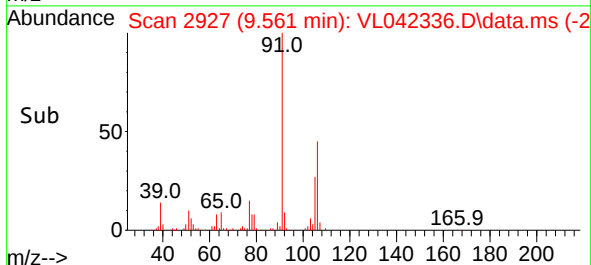
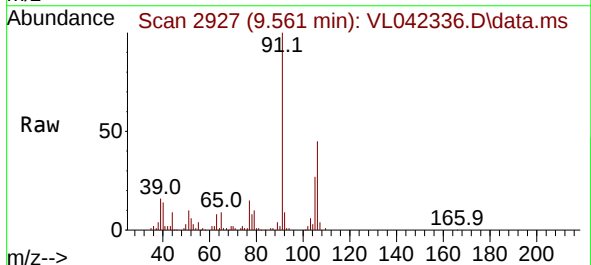
Manual Integrations
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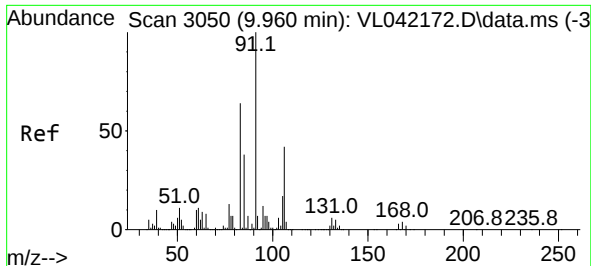
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#59
m/p-Xylene
Concen: 0.501 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.013 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Tgt Ion: 91 Resp: 28519
Ion Ratio Lower Upper
91 100
106 47.0 36.4 54.6





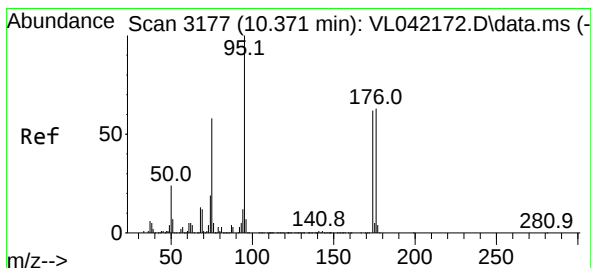
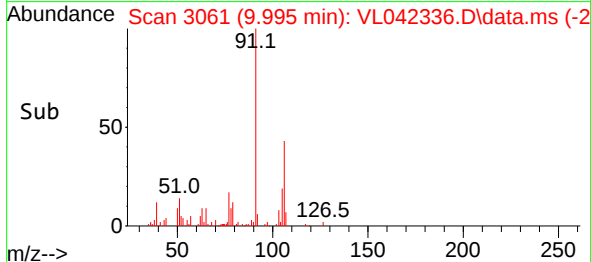
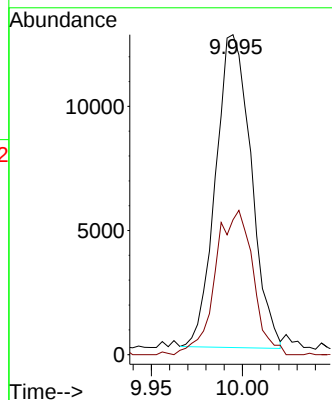
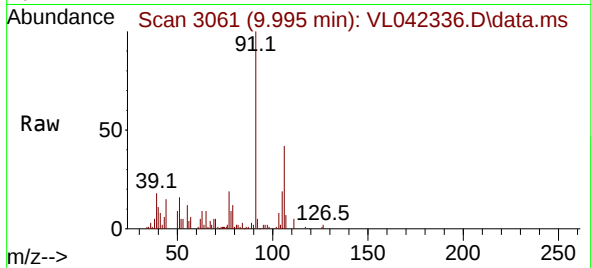
#60
o-Xylene
Concen: 0.299 ppbv
RT: 9.995 min Scan# 3050
Delta R.T. 0.035 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1705
Ion Ratio Lower Upper
91 100
106 49.0 20.8 62.5

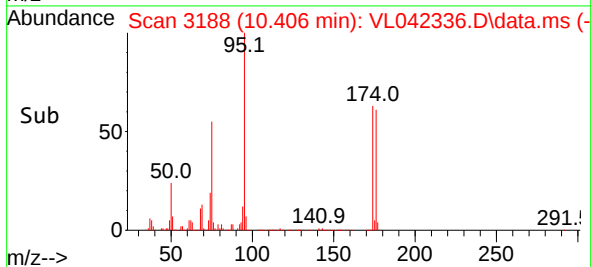
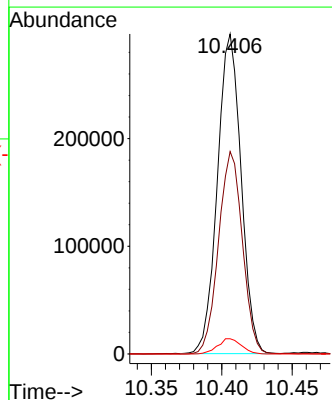
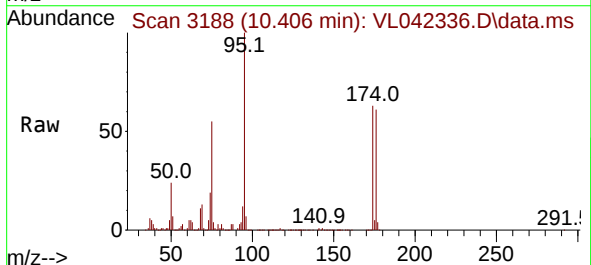
Manual Integrations
APPROVED

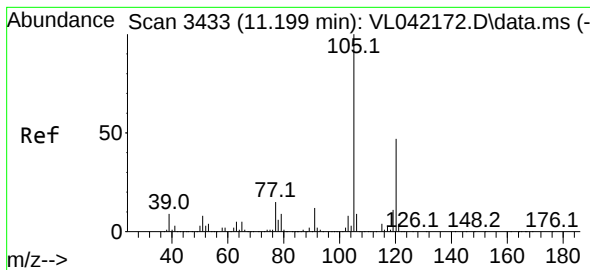
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.551 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042336.D
Acq: 15 Apr 2025 17:14

Tgt Ion: 95 Resp: 347560
Ion Ratio Lower Upper
95 100
174 64.0 50.6 76.0
175 4.8 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.201 ppbv m

RT: 11.234 min Scan# 3444

Delta R.T. 0.035 min

Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 12448

Ion Ratio Lower Upper

105 100

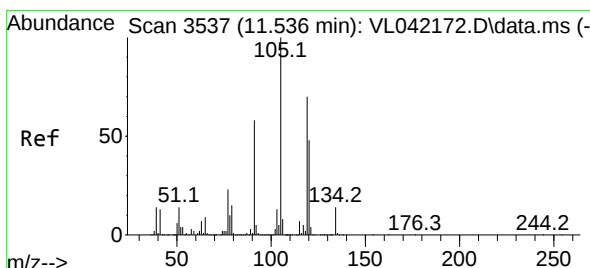
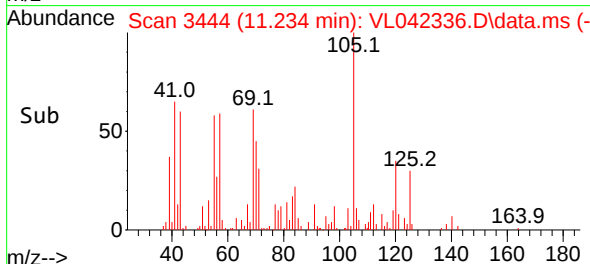
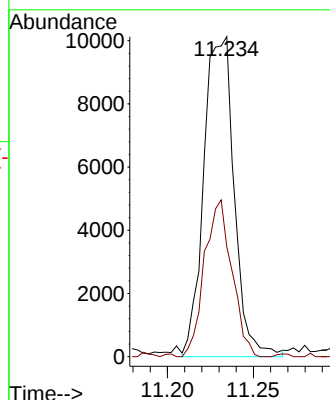
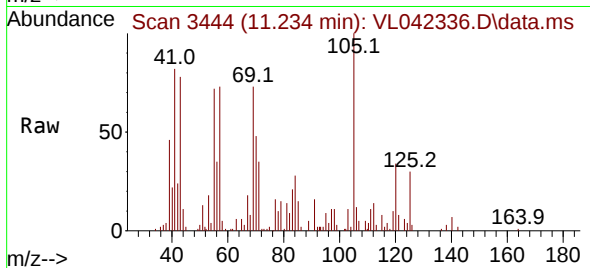
120 34.4 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.511 ppbv

RT: 11.561 min Scan# 3545

Delta R.T. 0.026 min

Lab File: VL042336.D

Acq: 15 Apr 2025 17:14

Tgt Ion:105 Resp: 36517

Ion Ratio Lower Upper

105 100

120 40.8 38.6 58.0

91 13.3 46.2 69.2#

77 16.7 18.6 27.8#

