

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042256.D
 Acq On : 08 Apr 2025 10:55
 Operator : SY/MD
 Sample : Q1725-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:52:47 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	2.803	49	196935	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	510940	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446395	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	365114	9.960	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	10848	0.373	ppbv	92
3) Chlorodifluoromethane	1.482	51	10080m	0.339	ppbv	
4) Chloromethane	1.537	50	4839	0.407	ppbv #	81
9) Propene	1.495	41	5396m	0.396	ppbv	
11) Trichlorofluoromethane	1.887	101	5679	0.201	ppbv	97
13) Ethanol	1.728	45	16623m	12.915	ppbv	
15) Acetone	1.842	43	1059776	38.478	ppbv	100
19) Isopropyl Alcohol	1.894	45	1694950	109.070	ppbv #	32
20) Methylene Chloride	2.072	84	6489	0.633	ppbv #	74
26) Hexane	2.839	57	7856	0.285	ppbv #	37
29) Chloroform	2.861	83	15580	0.386	ppbv	96
34) 2-Butanone	2.573	43	16376	0.442	ppbv	99
35) Carbon Tetrachloride	3.790	117	3123m	0.078	ppbv	
36) Benzene	3.680	78	8061	0.159	ppbv	95
38) Trichloroethene	4.586	130	973m	0.046	ppbv	
52) Tetrachloroethene	8.254	164	1610m	0.080	ppbv	
53) Toluene	6.962	91	42966	0.716	ppbv	96
58) Ethyl Benzene	9.377	91	106361	1.341	ppbv	96
59) m/p-Xylene	9.551	91	400289	6.322	ppbv	98
60) o-Xylene	9.985	91	78832	1.242	ppbv	99
61) Styrene	9.888	104	11084	0.353	ppbv	94
72) 4-Ethyltoluene	11.141	105	8715	0.110	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	8928	0.129	ppbv	86
74) 1,2,4-Trimethylbenzene	11.552	105	28863	0.363	ppbv #	65

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

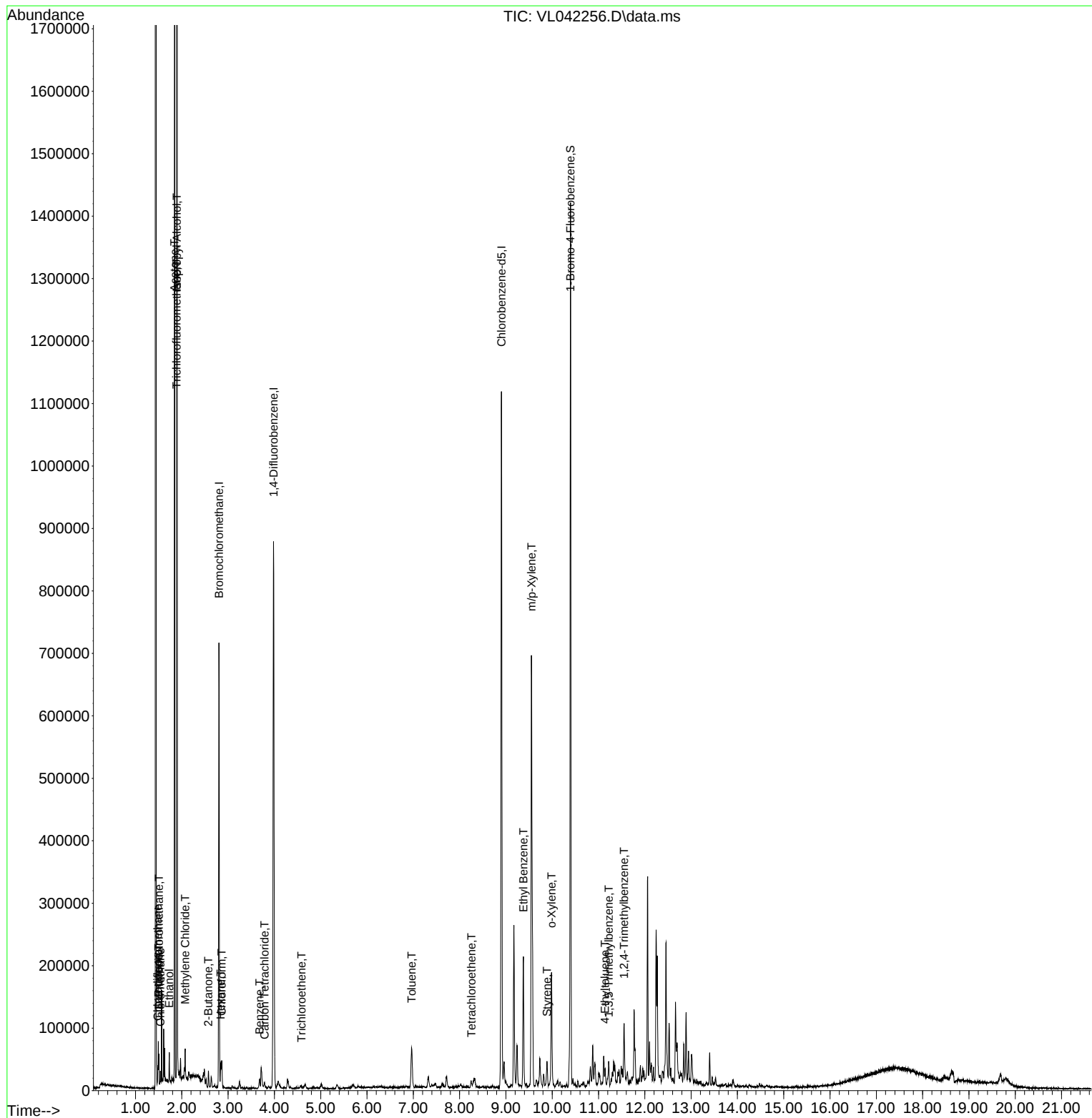
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042256.D
Acq On : 08 Apr 2025 10:55
Operator : SY/MD
Sample : Q1725-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

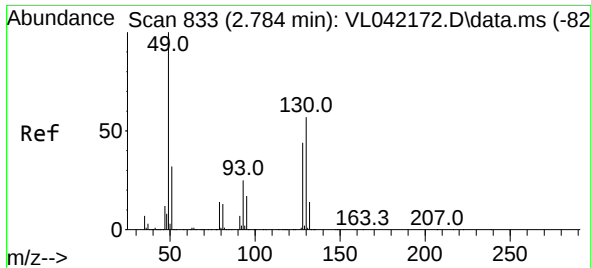
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Quant Time: Apr 09 01:52:47 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

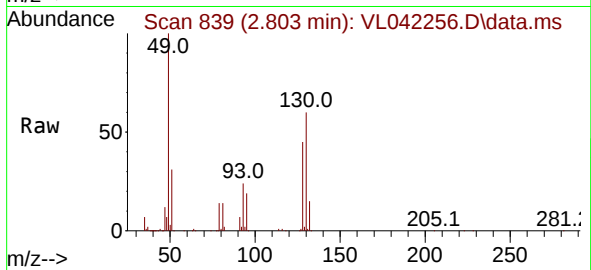
Reviewed By : Semsettin Yesilyurt 04/09/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

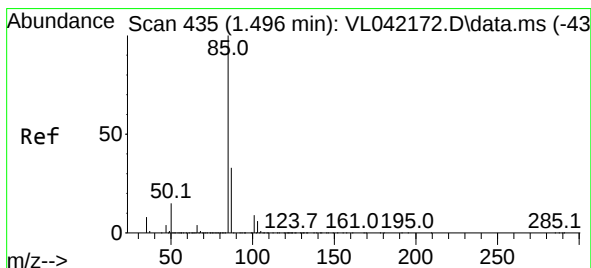
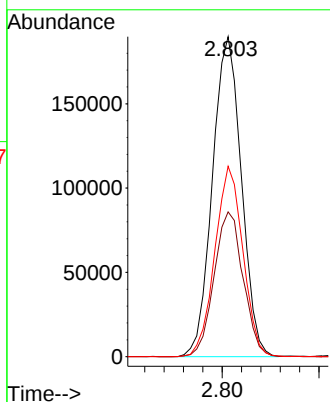
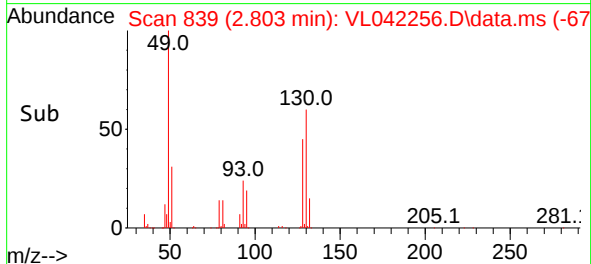
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



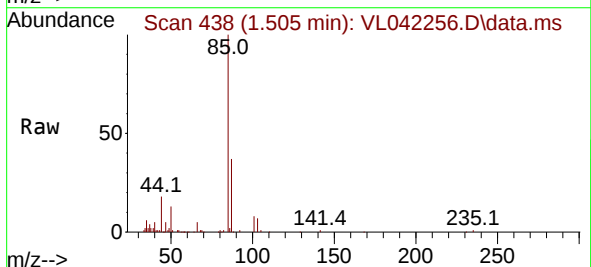
Tgt Ion: 49 Resp: 19693
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.9 28.8 86.4

Manual Integrations
APPROVED

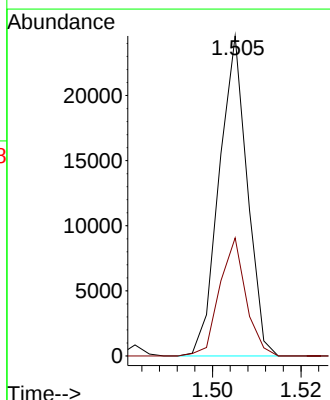
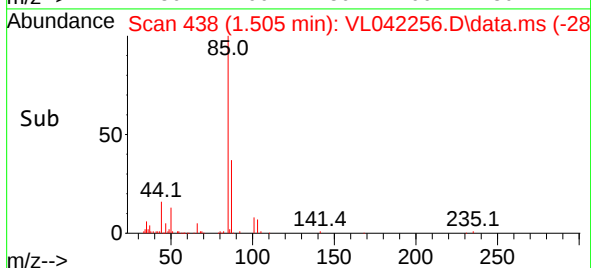
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.373 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



Tgt Ion: 85 Resp: 10848
Ion Ratio Lower Upper
85 100
87 36.9 26.1 39.1





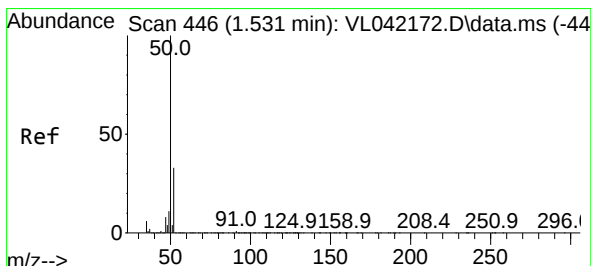
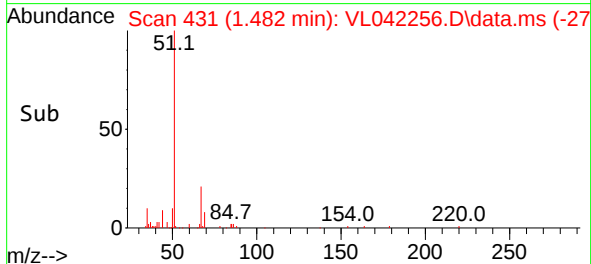
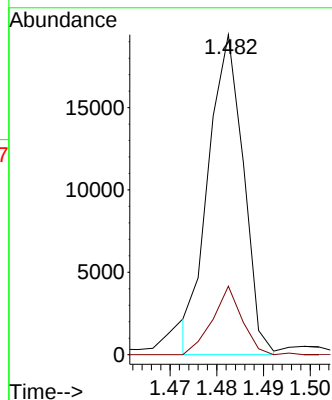
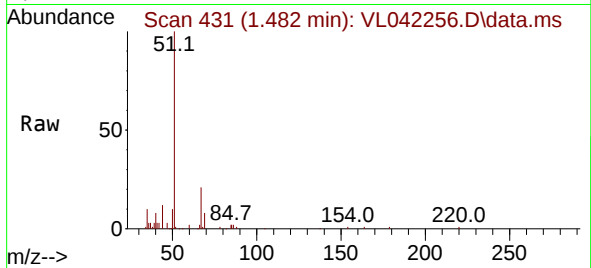
#3
Chlorodifluoromethane
Concen: 0.339 ppbv m
RT: 1.482 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025

Tgt Ion: 51 Resp: 10080
Ion Ratio Lower Upper
51 100
67 18.9 15.0 22.6

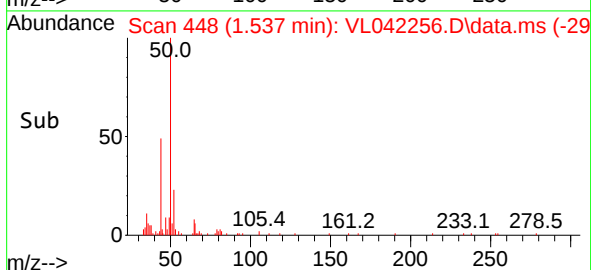
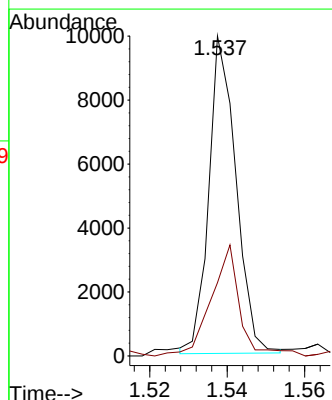
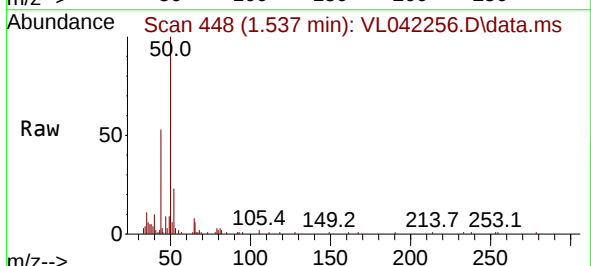
Manual Integrations
APPROVED

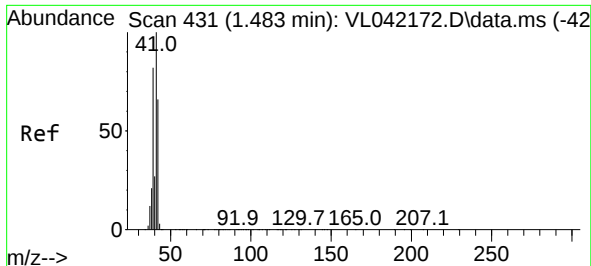
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 0.407 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 50 Resp: 4839
Ion Ratio Lower Upper
50 100
52 22.1 26.1 39.1#





#9

Propene

Concen: 0.396 ppbv m

RT: 1.495 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025

Tgt Ion: 41 Resp: 5390

Ion Ratio Lower Upper

41 100

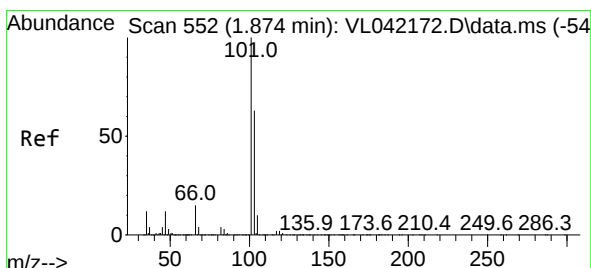
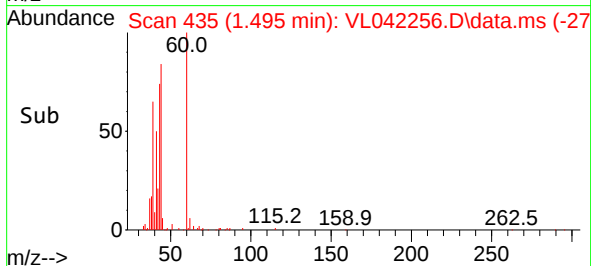
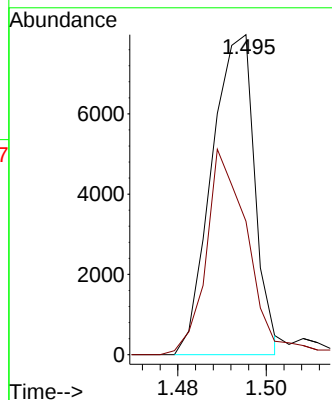
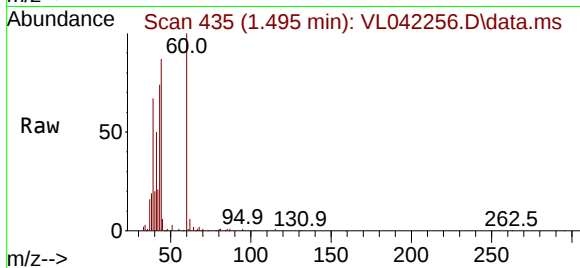
42 2167.2 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#11

Trichlorofluoromethane

Concen: 0.201 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042256.D

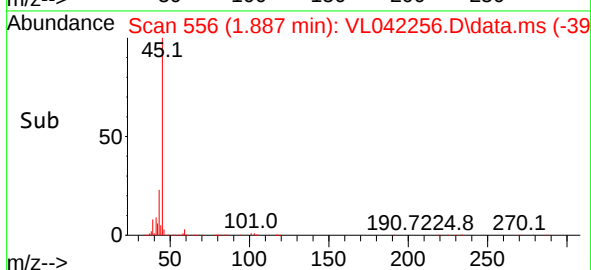
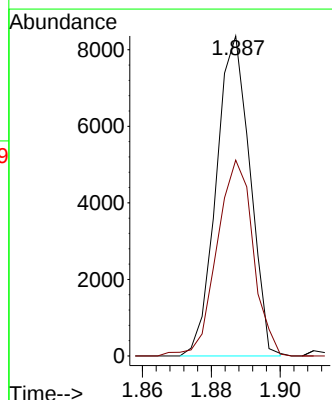
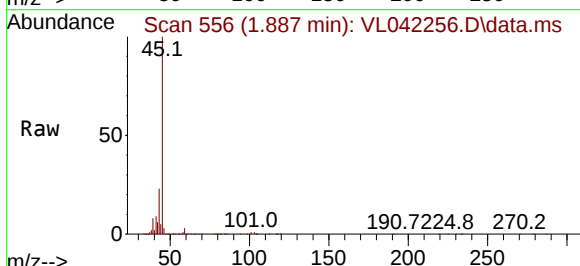
Acq: 08 Apr 2025 10:55

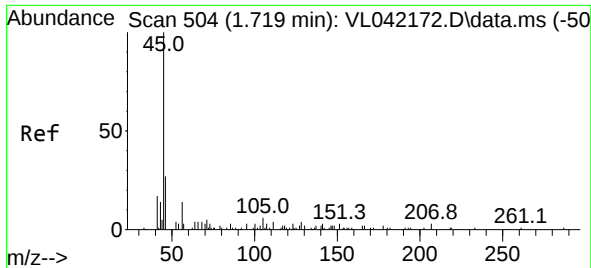
Tgt Ion:101 Resp: 5679

Ion Ratio Lower Upper

101 100

103 60.6 50.2 75.2





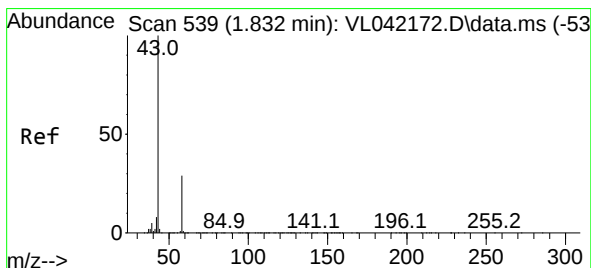
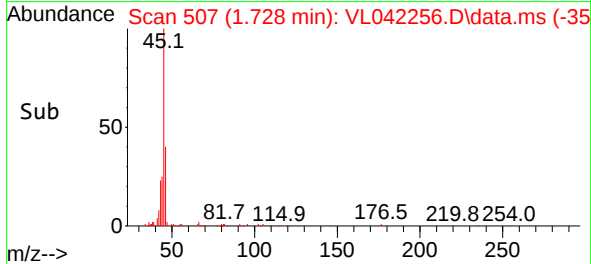
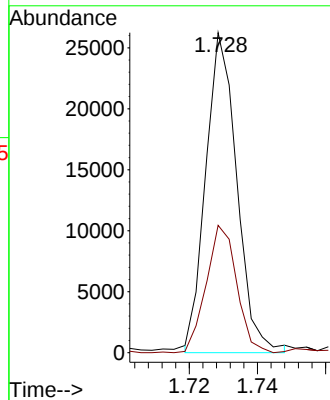
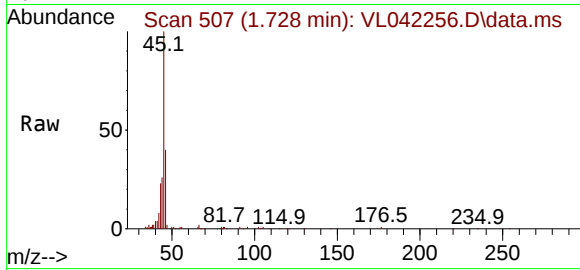
#13
 Ethanol
 Concen: 12.915 ppbv m
 RT: 1.728 min Scan# 50
 Delta R.T. 0.009 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025

Tgt Ion: 45 Resp: 1662
 Ion Ratio Lower Upper
 45 100
 46 308.5 20.2 80.8

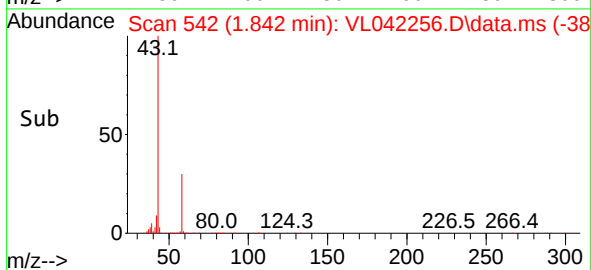
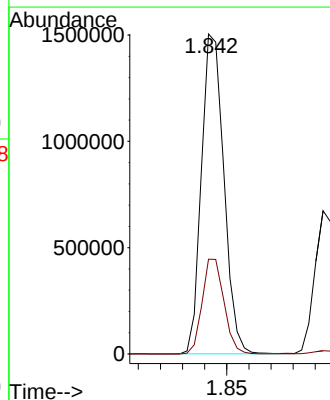
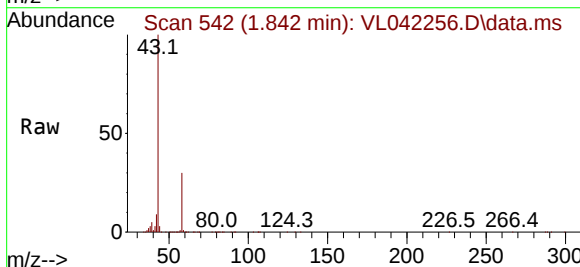
Manual Integrations
 APPROVED

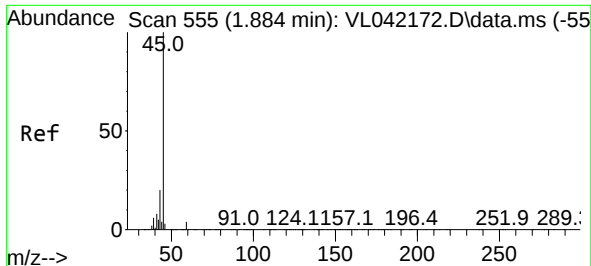
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#15
 Acetone
 Concen: 38.478 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. 0.009 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

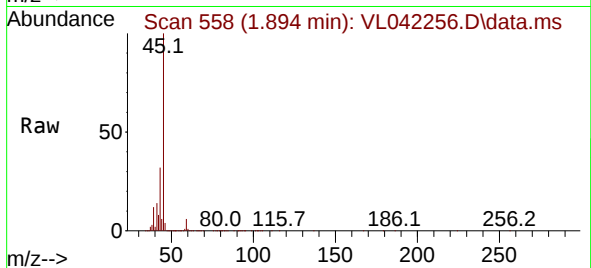
Tgt Ion: 43 Resp: 1059776
 Ion Ratio Lower Upper
 43 100
 58 28.8 23.2 34.8





#19
Isopropyl Alcohol
Concen: 109.070 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.009 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

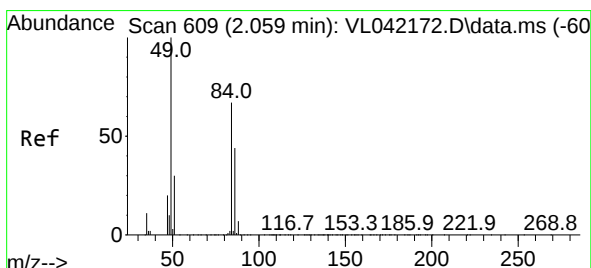
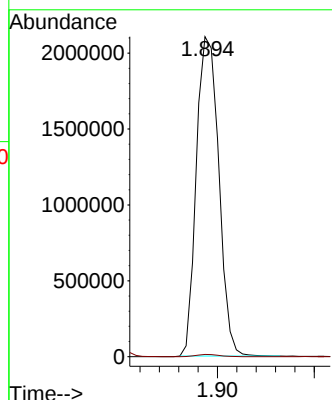
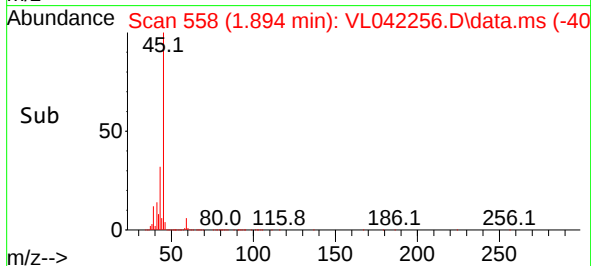
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



Tgt Ion: 45 Resp: 1694950
Ion Ratio Lower Upper
45 100
58 0.8 36.9 55.3

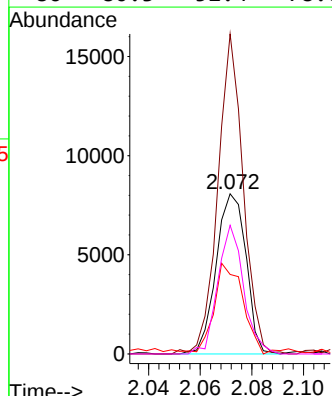
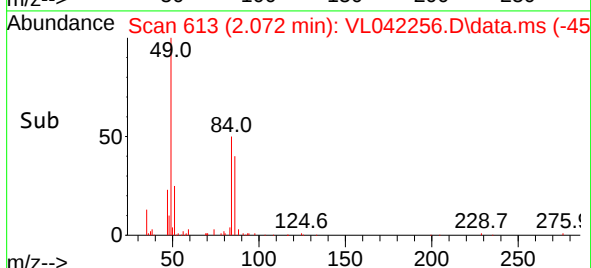
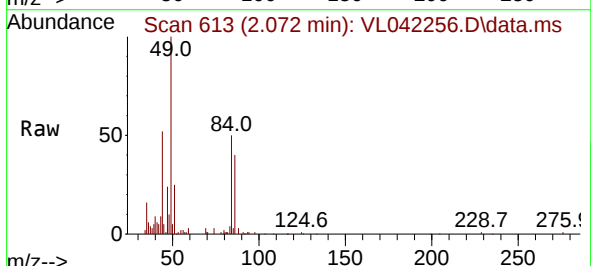
Manual Integrations
APPROVED

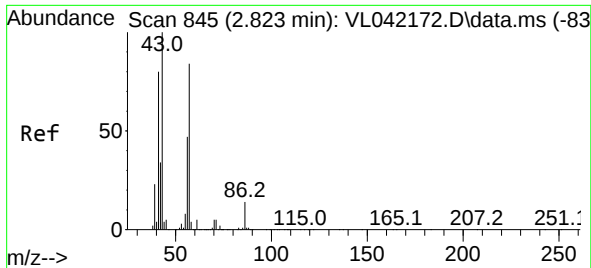
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.633 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

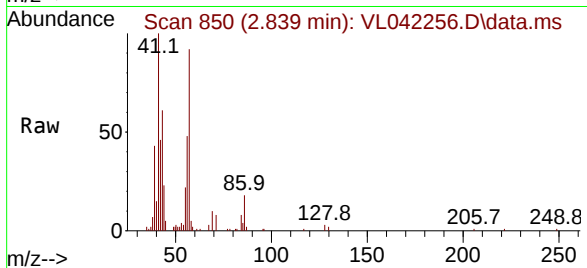
Tgt Ion: 84 Resp: 6489
Ion Ratio Lower Upper
84 100
49 197.4 120.2 180.4#
51 48.0 37.4 56.0
86 80.3 52.4 78.6#





#26
Hexane
Concen: 0.285 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

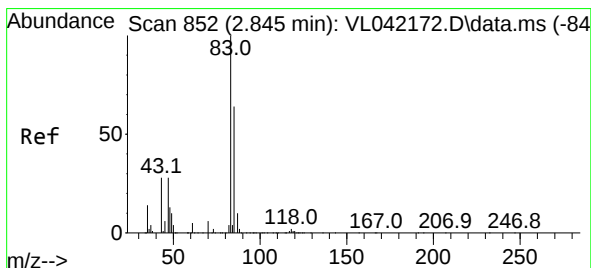
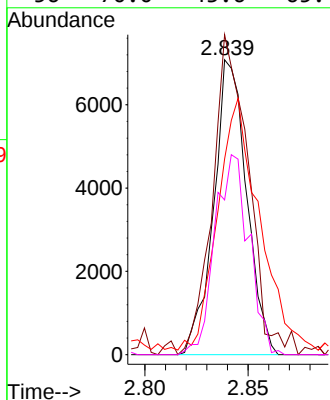
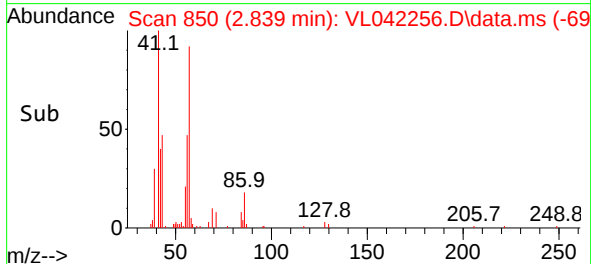
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



Tgt Ion: 57 Resp: 7850
Ion Ratio Lower Upper
57 100
41 121.0 76.6 114.8
43 107.6 207.8 311.8
56 70.0 43.6 65.4

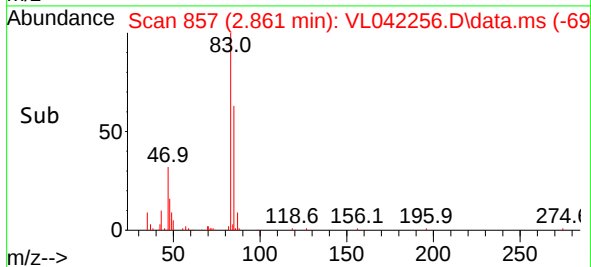
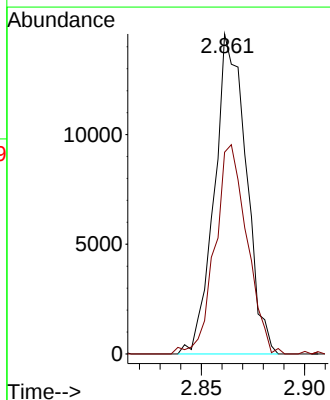
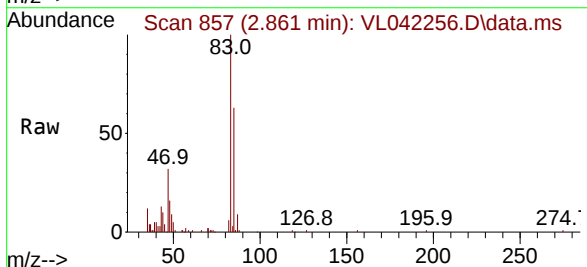
Manual Integrations
APPROVED

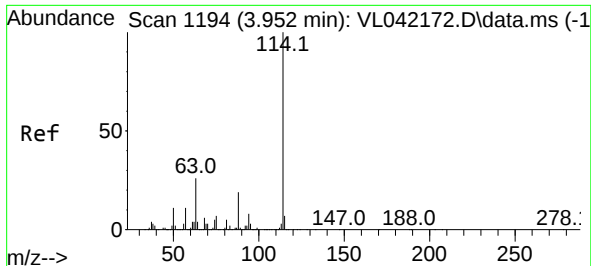
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 0.386 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

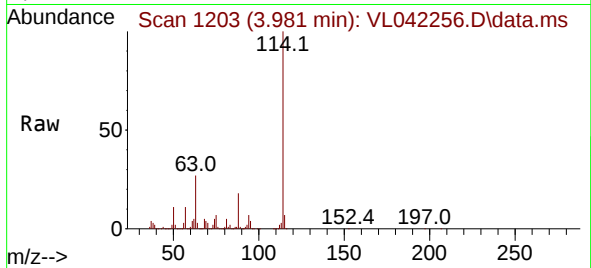
Tgt Ion: 83 Resp: 15580
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

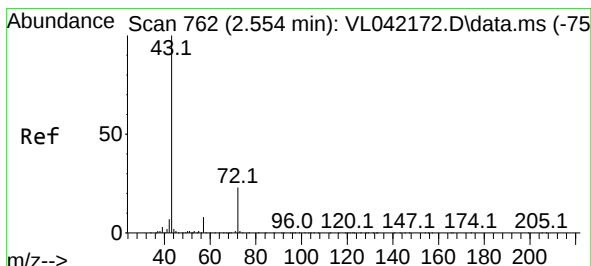
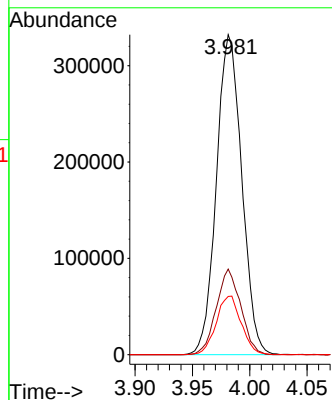
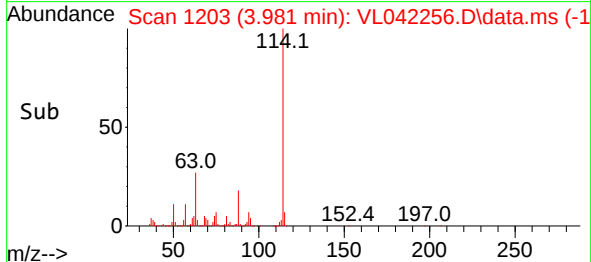
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



Tgt Ion:114 Resp: 510940
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.1 15.0 22.4

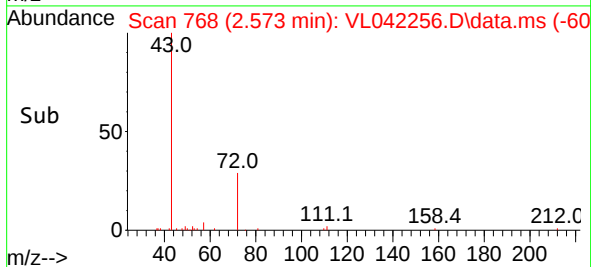
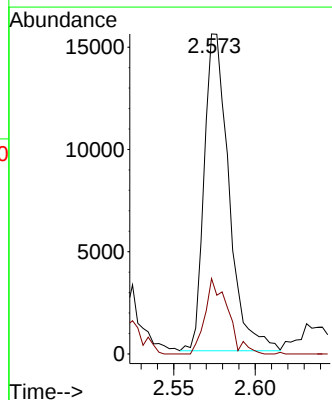
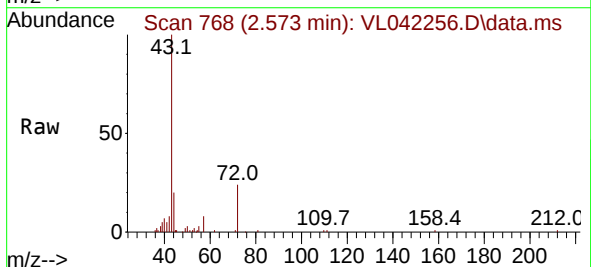
Manual Integrations
APPROVED

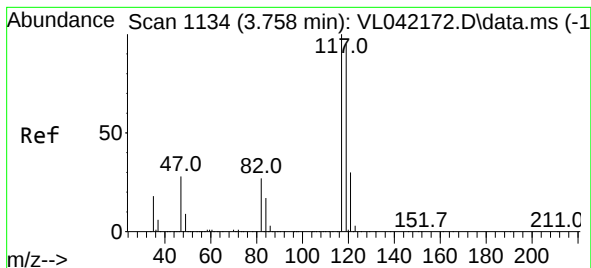
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 0.442 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 43 Resp: 16376
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 3.790 min Scan# 1134

Delta R.T. 0.032 min

Lab File: VL042256.D

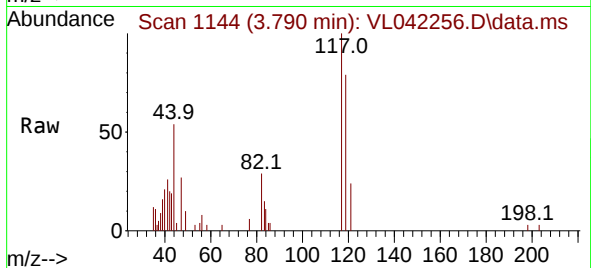
Acq: 08 Apr 2025 10:55

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025



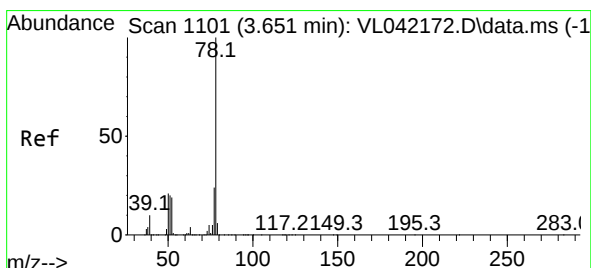
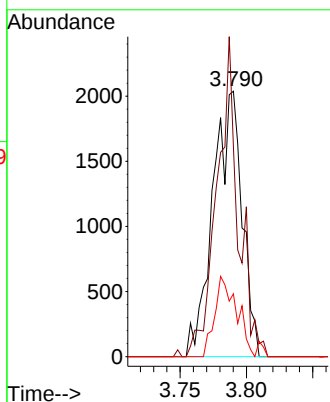
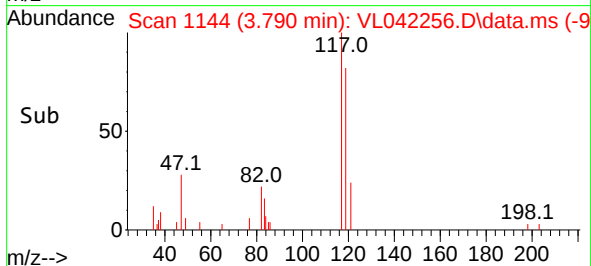
Tgt Ion: 117 Resp: 312

Ion	Ratio	Lower	Upper
117	100		
119	79.2	76.2	114.2
121	23.7	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36

Benzene

Concen: 0.159 ppbv

RT: 3.680 min Scan# 1110

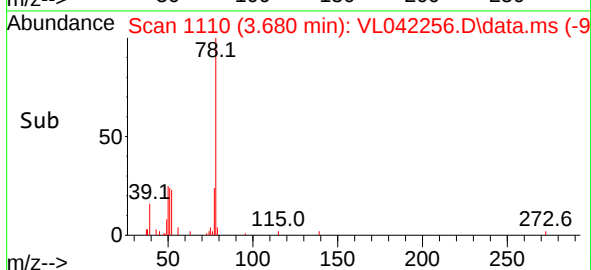
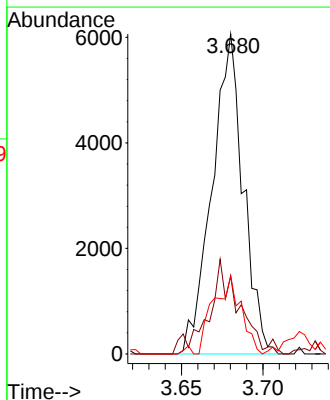
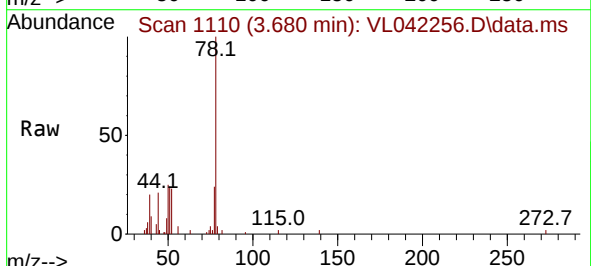
Delta R.T. 0.029 min

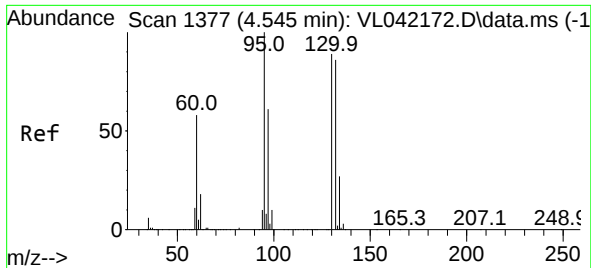
Lab File: VL042256.D

Acq: 08 Apr 2025 10:55

Tgt Ion: 78 Resp: 8061

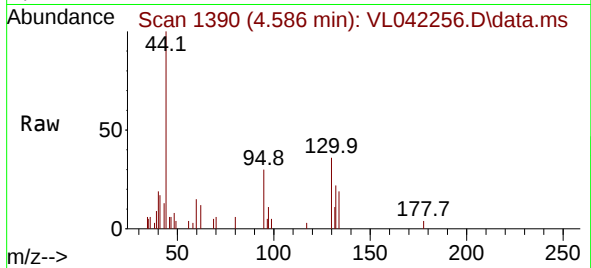
Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.1	28.7
50	24.5	16.6	24.8





#38
 Trichloroethene
 Concen: 0.046 ppbv m
 RT: 4.586 min Scan# 1390
 Delta R.T. 0.042 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

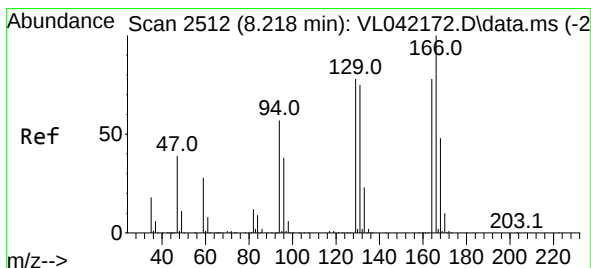
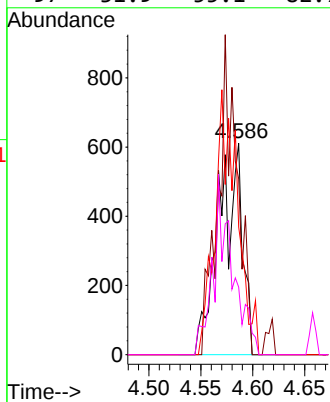
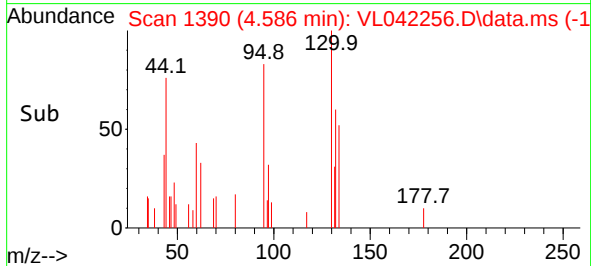
Instrument : MSVOA_L
 ClientSampleId : SSSG-DUP-2-04012025



Tgt Ion:130 Resp: 97.0
 Ion Ratio Lower Upper
 130 100
 95 83.1 89.8 134.8
 132 60.4 77.4 116.2
 97 31.9 55.1 82.7#

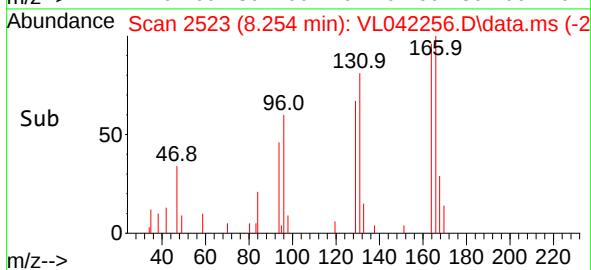
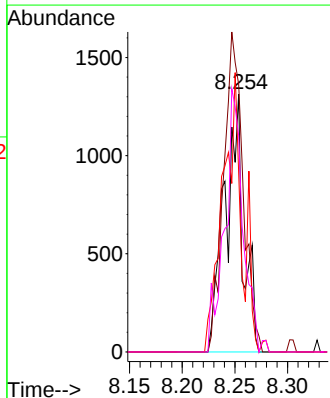
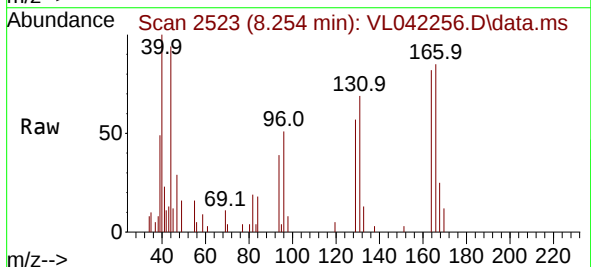
Manual Integrations
 APPROVED

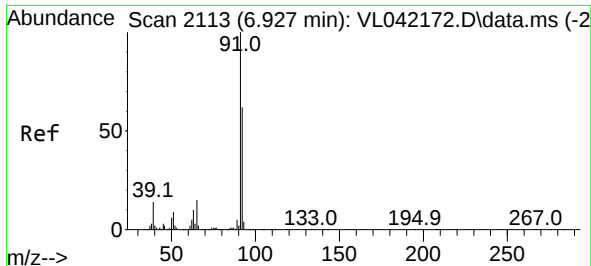
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#52
 Tetrachloroethene
 Concen: 0.080 ppbv m
 RT: 8.254 min Scan# 2523
 Delta R.T. 0.035 min
 Lab File: VL042256.D
 Acq: 08 Apr 2025 10:55

Tgt Ion:164 Resp: 1610
 Ion Ratio Lower Upper
 164 100
 166 103.7 102.5 153.7
 129 69.3 79.8 119.8#
 131 83.9 76.6 114.8





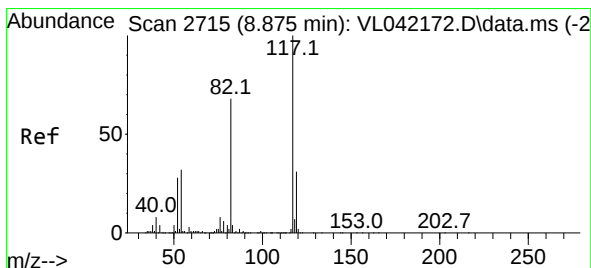
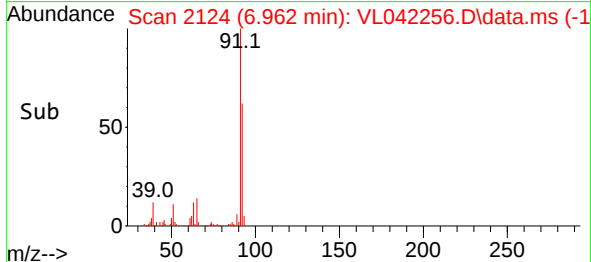
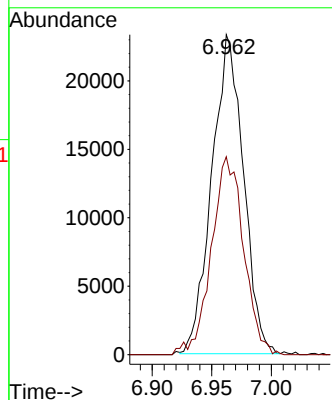
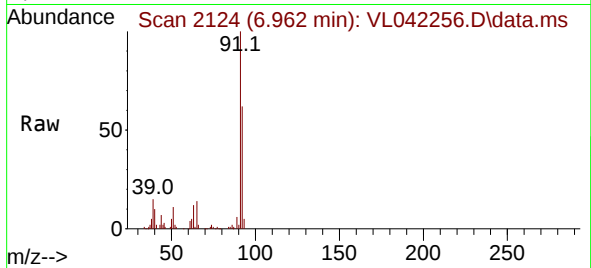
#53
Toluene
Concen: 0.716 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025

Tgt Ion: 91 Resp: 42960
Ion Ratio Lower Upper
91 100
92 63.3 48.4 72.6

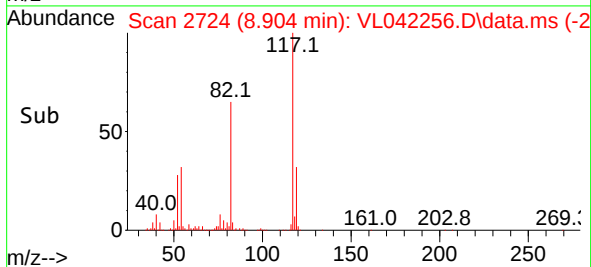
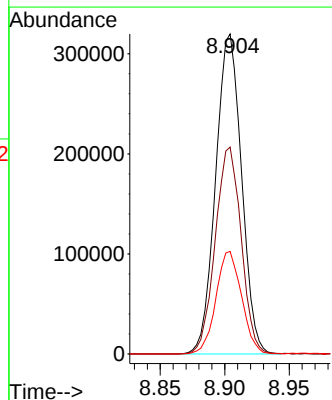
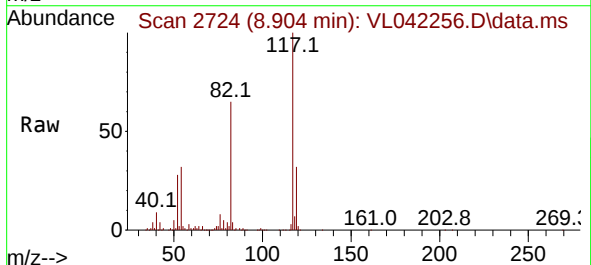
Manual Integrations
APPROVED

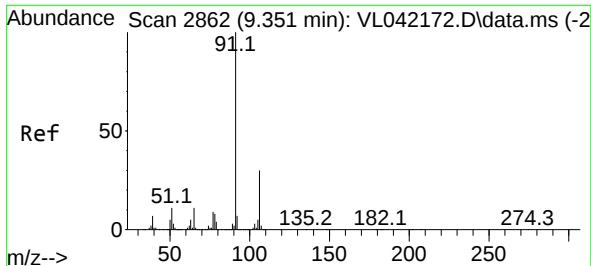
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

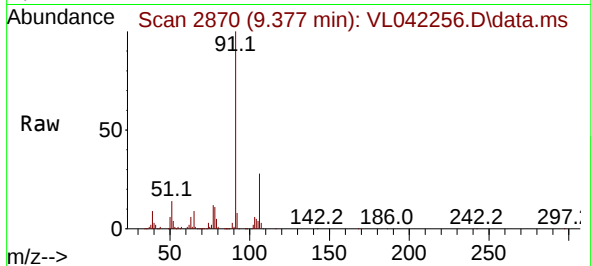
Tgt Ion:117 Resp: 446395
Ion Ratio Lower Upper
117 100
82 64.8 55.8 83.6
119 31.7 25.5 38.3





#58
Ethyl Benzene
Concen: 1.341 ppbv
RT: 9.377 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

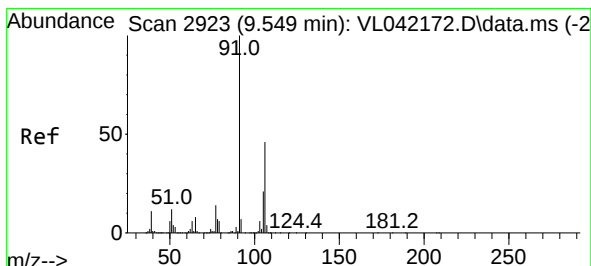
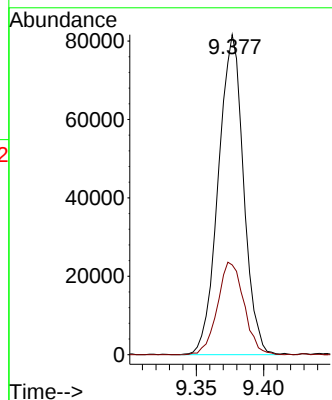
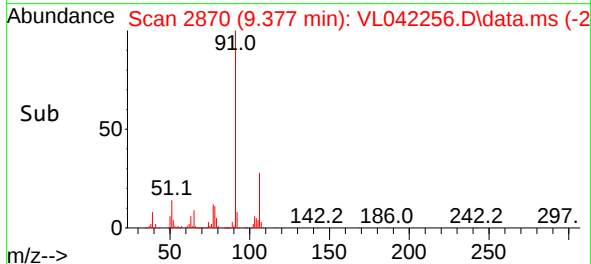
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025



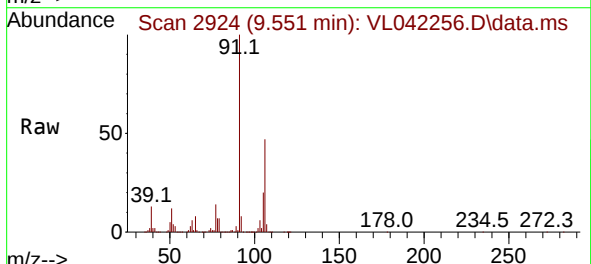
Tgt Ion: 91 Resp: 10636
Ion Ratio Lower Upper
91 100
106 28.0 24.2 36.2

Manual Integrations
APPROVED

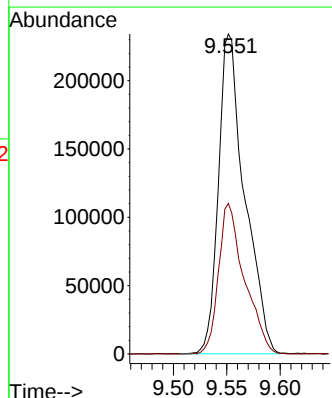
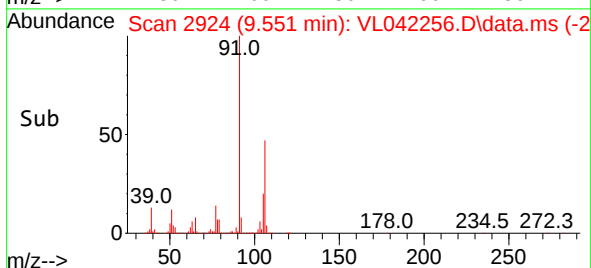
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

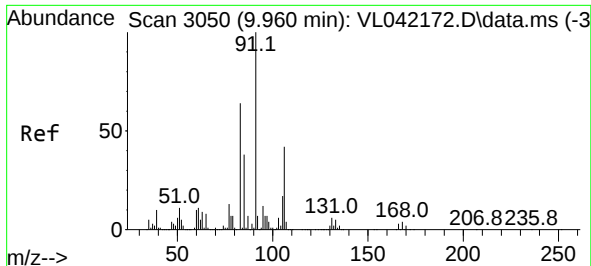


#59
m/p-Xylene
Concen: 6.322 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



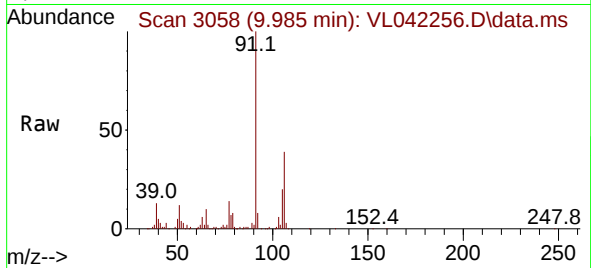
Tgt Ion: 91 Resp: 400289
Ion Ratio Lower Upper
91 100
106 46.5 36.4 54.6





#60
o-Xylene
Concen: 1.242 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

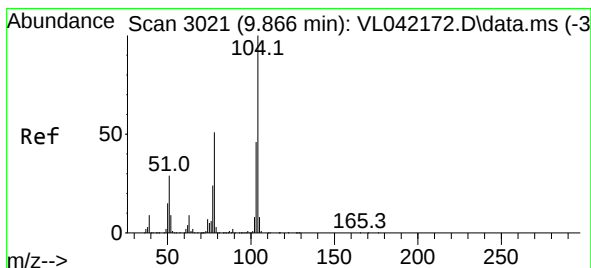
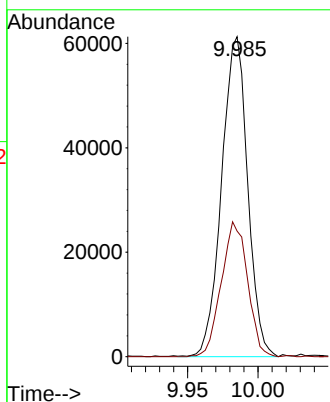
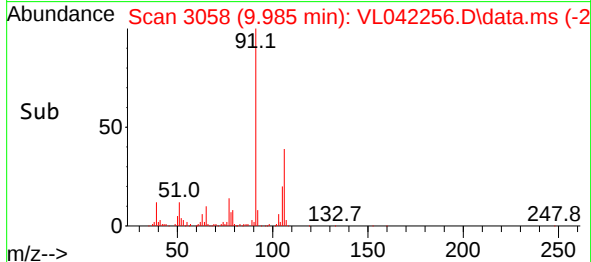
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



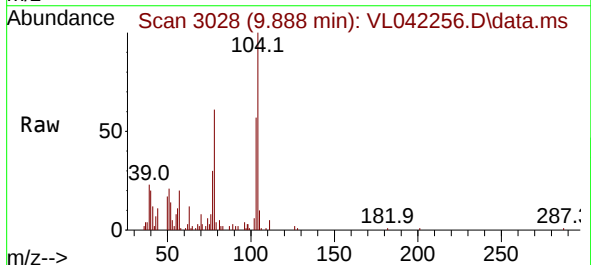
Tgt Ion: 91 Resp: 7883
Ion Ratio Lower Upper
91 100
106 42.6 20.8 62.5

Manual Integrations
APPROVED

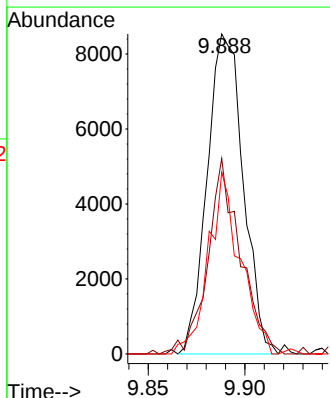
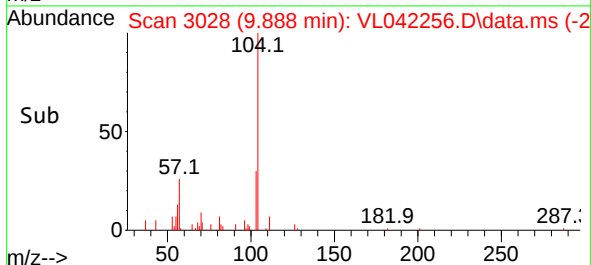
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

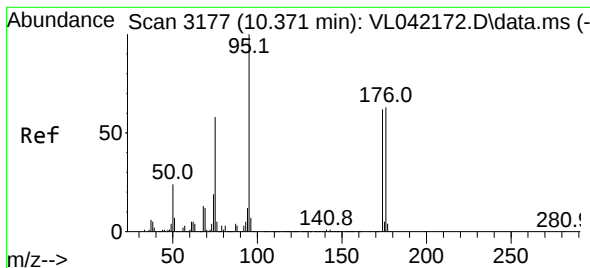


#61
Styrene
Concen: 0.353 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



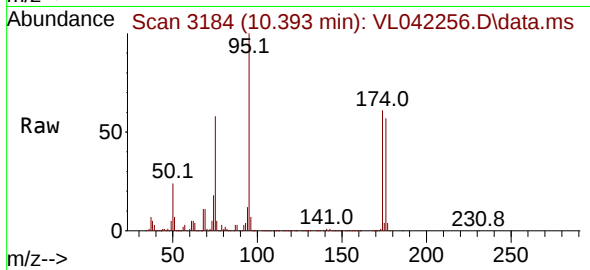
Tgt Ion:104 Resp: 11084
Ion Ratio Lower Upper
104 100
78 55.6 41.8 62.6
103 50.4 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.960 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.022 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

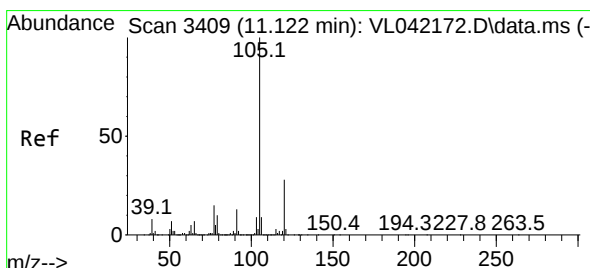
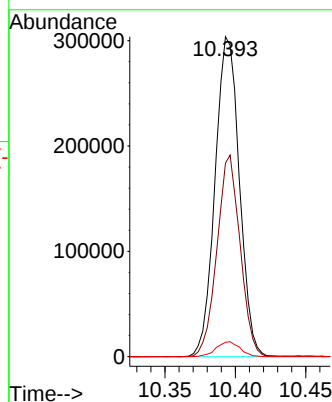
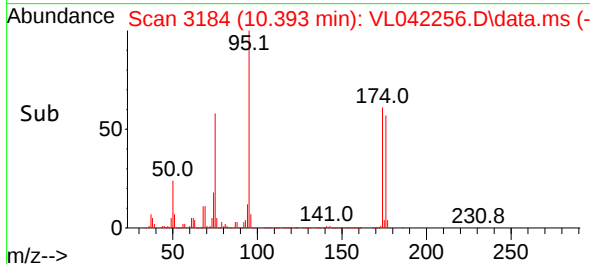
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



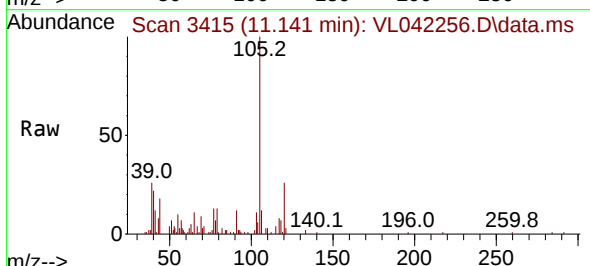
Tgt Ion: 95 Resp: 365114
Ion Ratio Lower Upper
95 100
174 60.2 50.6 76.0
175 4.6 3.8 5.6

Manual Integrations
APPROVED

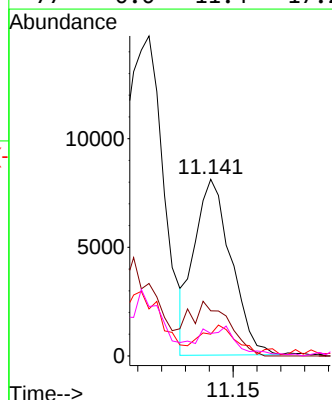
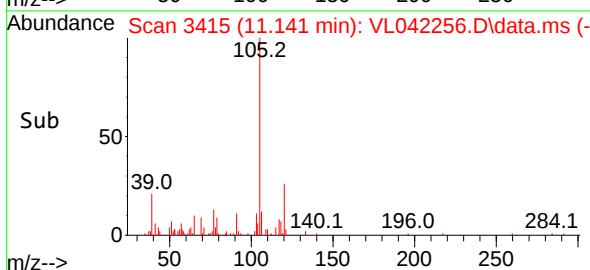
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

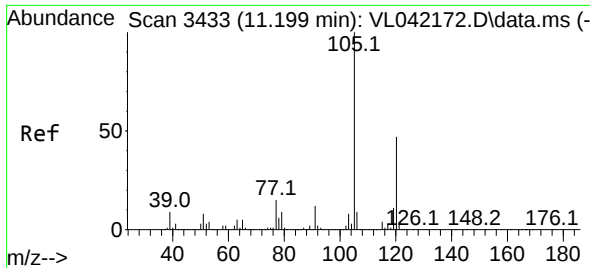


#72
4-Ethyltoluene
Concen: 0.110 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



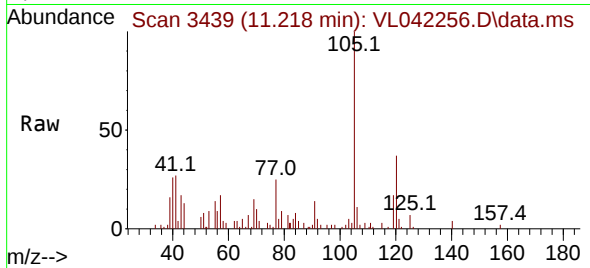
Tgt Ion:105 Resp: 8715
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 0.0 11.4 17.2#





#73
1,3,5-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.218 min Scan# 3433
Delta R.T. 0.019 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55

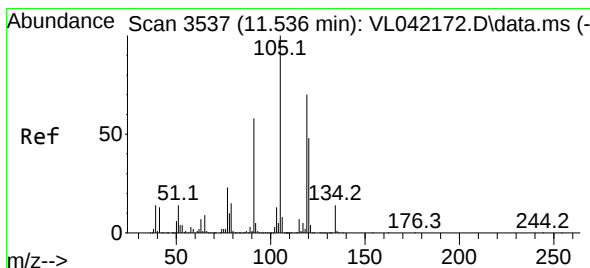
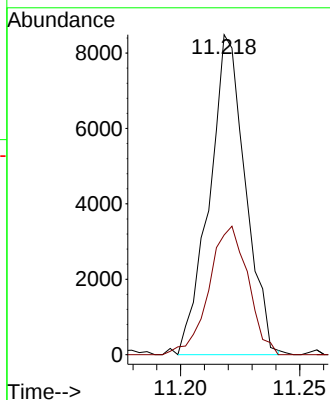
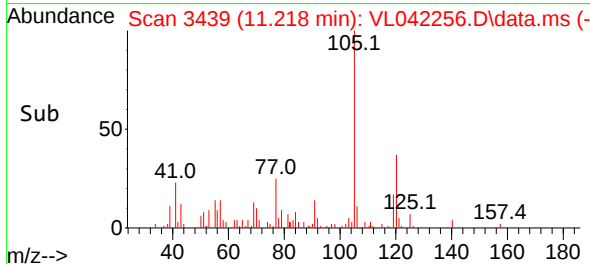
Instrument : MSVOA_L
ClientSampleId : SSSG-DUP-2-04012025



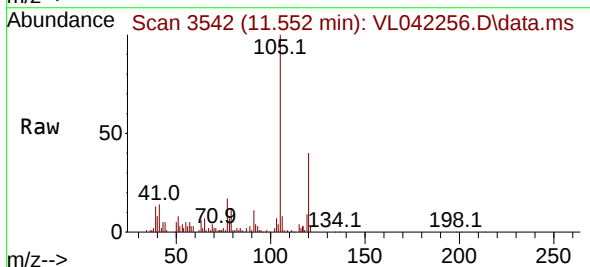
Tgt Ion:105 Resp: 8928
Ion Ratio Lower Upper
105 100
120 37.4 37.4 56.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.363 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.016 min
Lab File: VL042256.D
Acq: 08 Apr 2025 10:55



Tgt Ion:105 Resp: 28863
Ion Ratio Lower Upper
105 100
120 40.4 38.6 58.0
91 10.7 46.2 69.2#
77 16.7 18.6 27.8#

