

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042234.D
 Acq On : 07 Apr 2025 14:18
 Operator : SY/MD
 Sample : Q1725-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-2-04012025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:32:03 2025

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

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

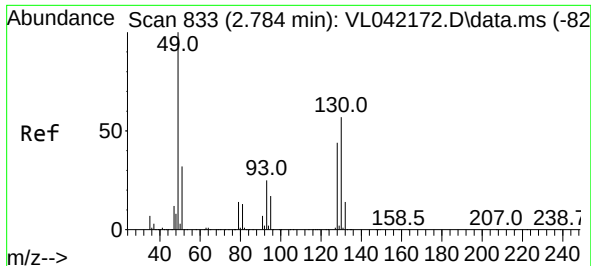
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

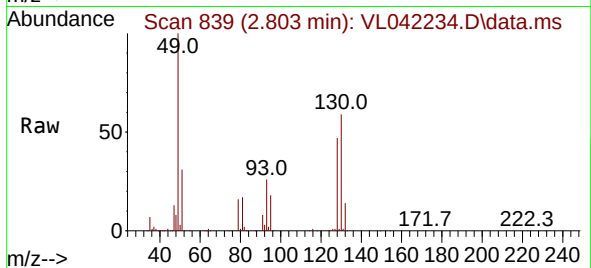
Internal Standards						
1) Bromochloromethane	2.803	49	198158	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	527291	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	473671	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	385746	9.917	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	11751	0.402	ppbv	91
3) Chlorodifluoromethane	1.480	51	7986m	0.267	ppbv	
10) Heptane	5.011	43	4434m	0.122	ppbv	
11) Trichlorofluoromethane	1.887	101	6010	0.211	ppbv	90
13) Ethanol	1.729	45	2993m	2.311	ppbv	
15) Acetone	1.845	43	70052	2.528	ppbv	96
20) Methylene Chloride	2.072	84	10076	0.976	ppbv	99
26) Hexane	2.845	57	8472m	0.305	ppbv	
29) Chloroform	2.865	83	81943	2.015	ppbv	98
34) 2-Butanone	2.580	43	7789	0.204	ppbv	93
35) Carbon Tetrachloride	3.791	117	2819m	0.068	ppbv	
36) Benzene	3.680	78	7218	0.138	ppbv #	88
38) Trichloroethene	4.577	130	1453m	0.067	ppbv	
52) Tetrachloroethene	8.241	164	1024m	0.049	ppbv	
53) Toluene	6.966	91	132108	2.132	ppbv	98
57) Chlorobenzene	8.940	112	8901	0.198	ppbv #	76
58) Ethyl Benzene	9.374	91	23493	0.279	ppbv	92
59) m/p-Xylene	9.552	91	79086	1.177	ppbv	99
60) o-Xylene	9.985	91	26822	0.398	ppbv	92
61) Styrene	9.888	104	7302	0.219	ppbv	97
74) 1,2,4-Trimethylbenzene	11.555	105	19699	0.233	ppbv #	67

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

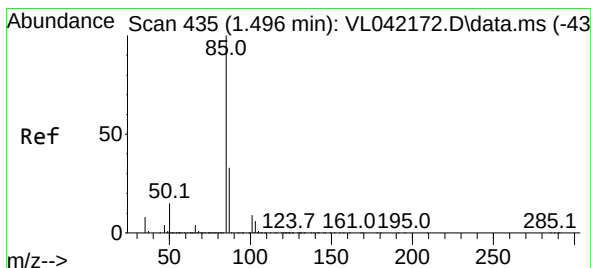
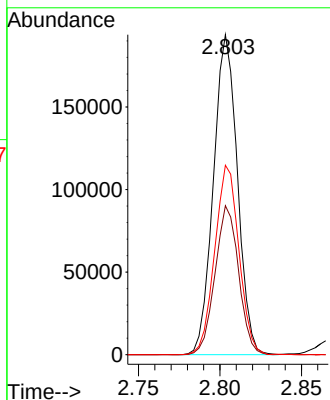
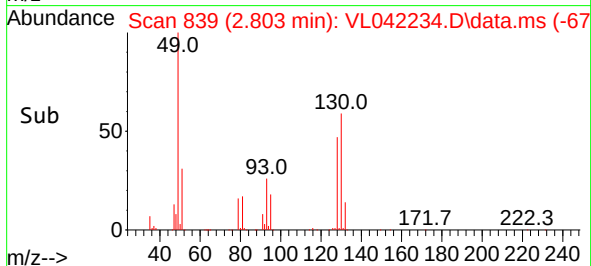
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 49 Resp: 19815
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.8 28.8 86.4

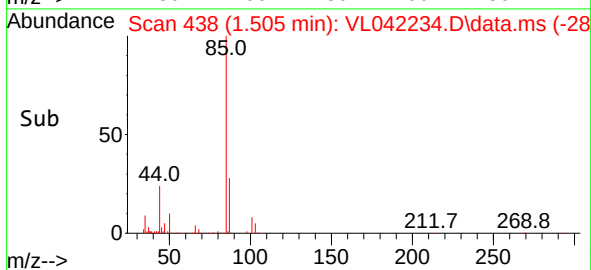
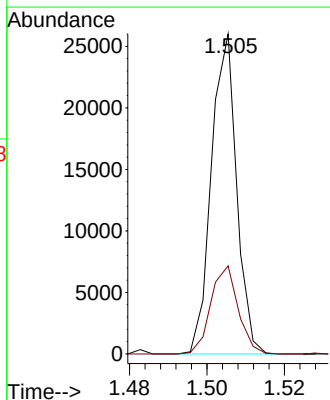
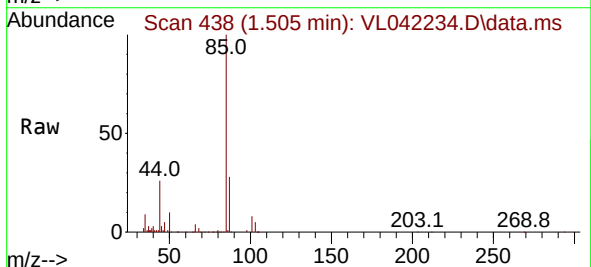
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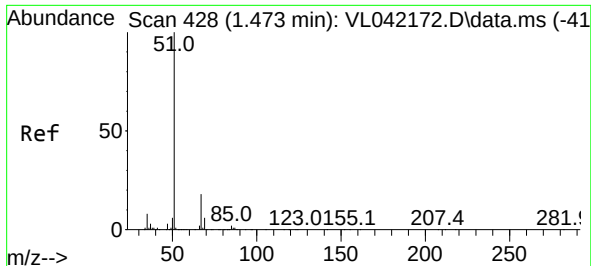
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

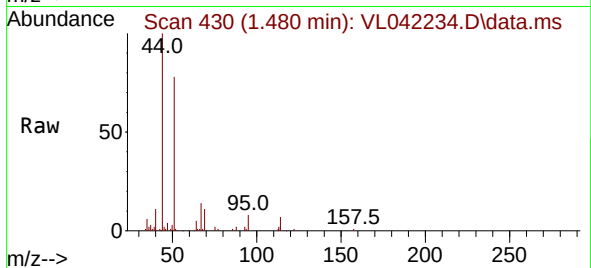
Tgt Ion: 85 Resp: 11751
Ion Ratio Lower Upper
85 100
87 27.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.267 ppbv m
RT: 1.480 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

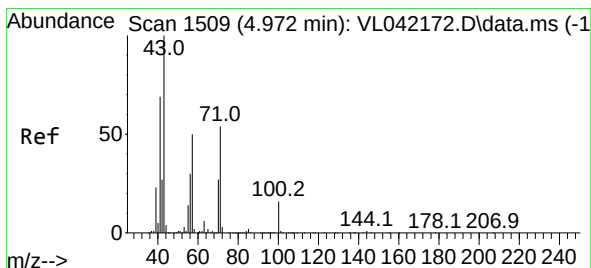
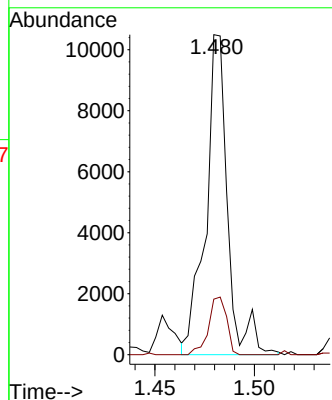
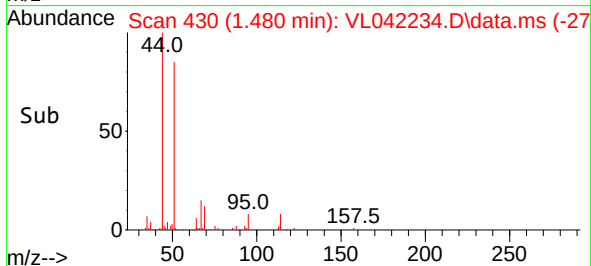
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 51 Resp: 7980
Ion Ratio Lower Upper
51 100
67 15.1 15.0 22.6

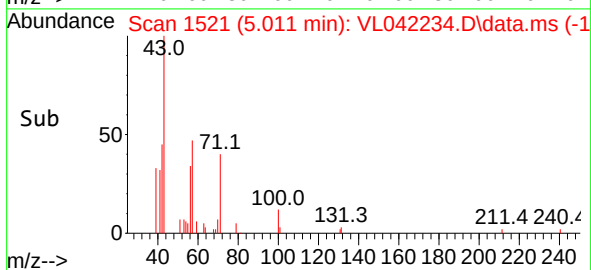
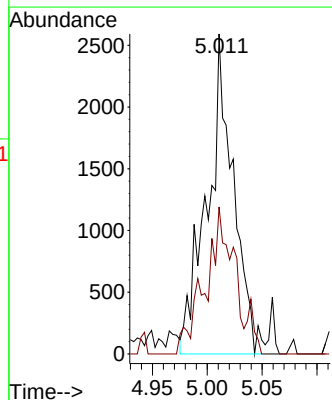
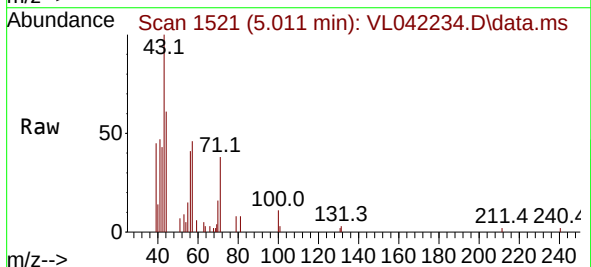
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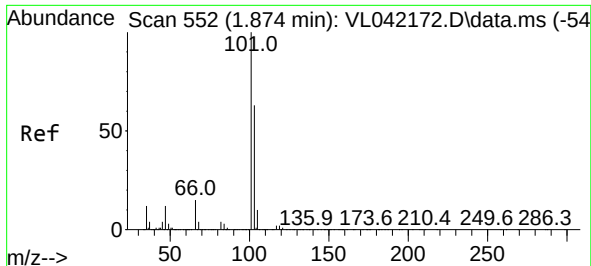
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#10
Heptane
Concen: 0.122 ppbv m
RT: 5.011 min Scan# 1521
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 43 Resp: 4434
Ion Ratio Lower Upper
43 100
57 51.1 39.4 59.2





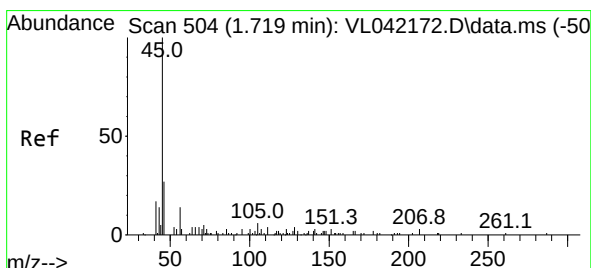
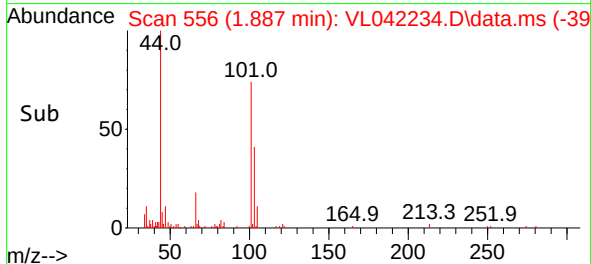
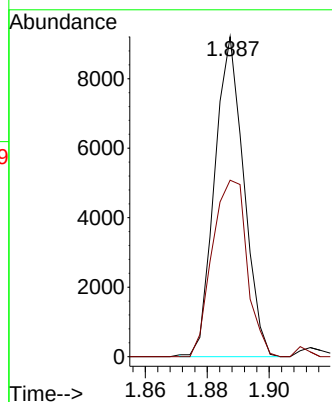
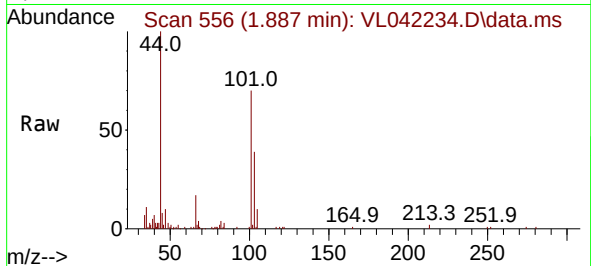
#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 1.887 min Scan# 501
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion:101 Resp: 6010
Ion Ratio Lower Upper
101 100
103 55.2 50.2 75.2

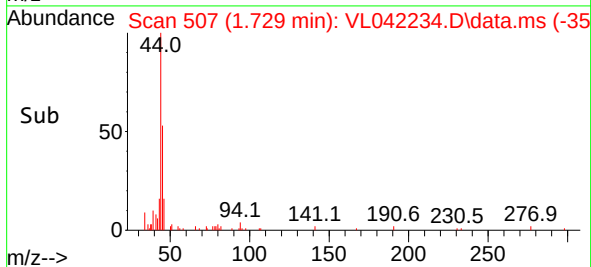
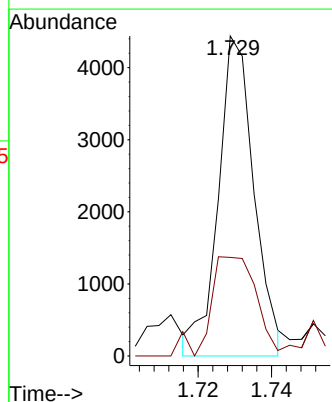
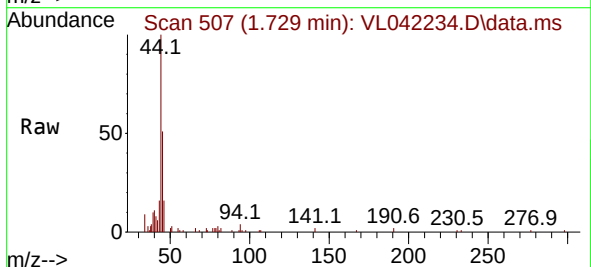
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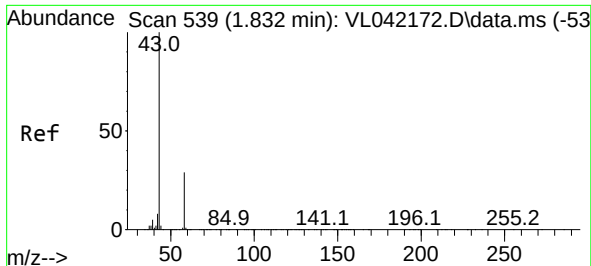
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 2.311 ppbv m
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 45 Resp: 2993
Ion Ratio Lower Upper
45 100
46 7824.8 20.2 80.8#





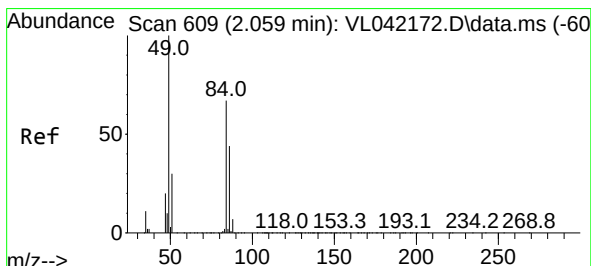
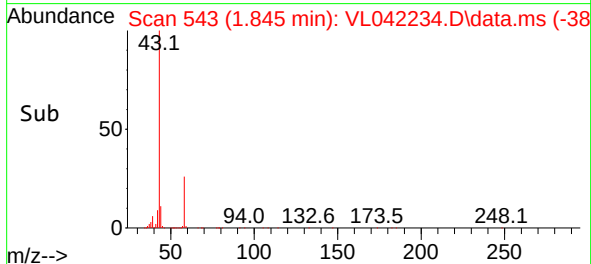
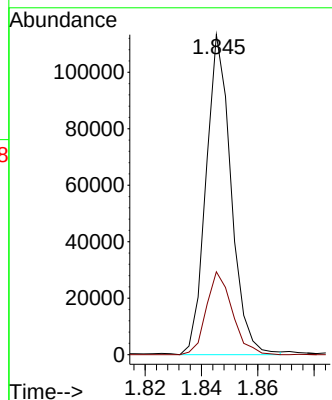
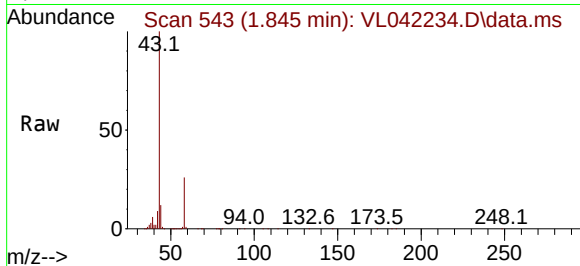
#15
Acetone
Concen: 2.528 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion: 43 Resp: 70052
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

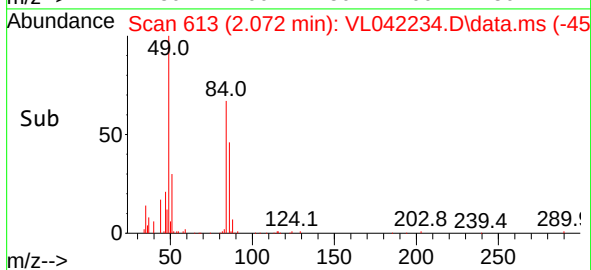
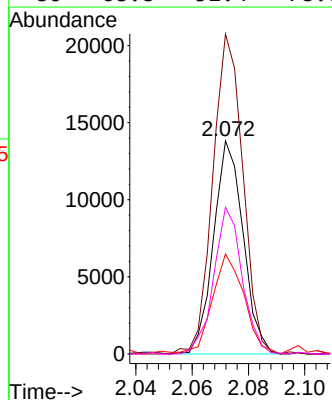
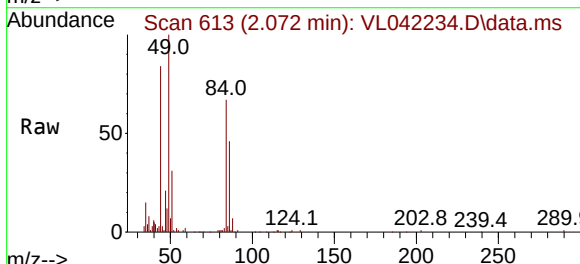
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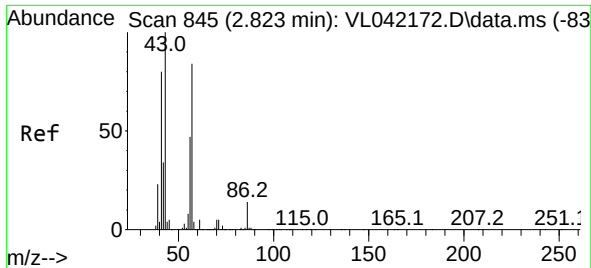
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#20
Methylene Chloride
Concen: 0.976 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

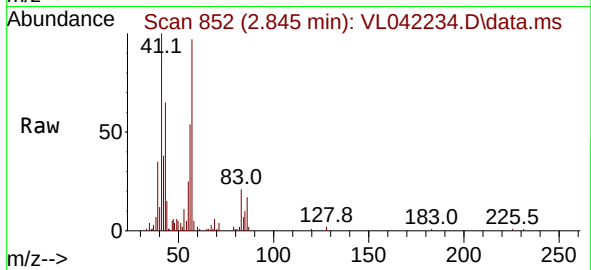
Tgt Ion: 84 Resp: 10076
Ion Ratio Lower Upper
84 100
49 150.1 120.2 180.4
51 46.9 37.4 56.0
86 68.8 52.4 78.6





#26
Hexane
Concen: 0.305 ppbv m
RT: 2.845 min Scan# 845
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

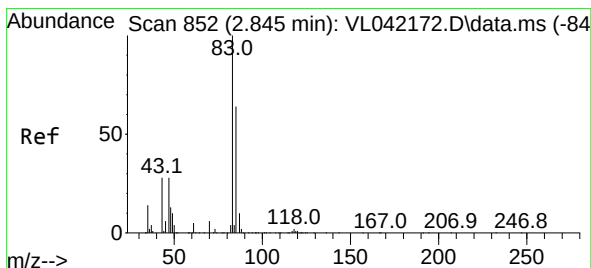
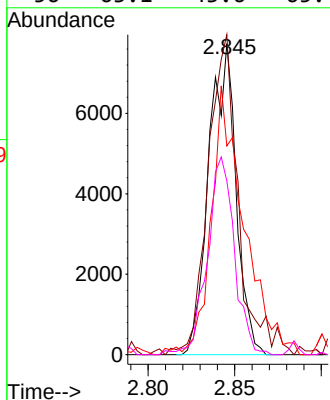
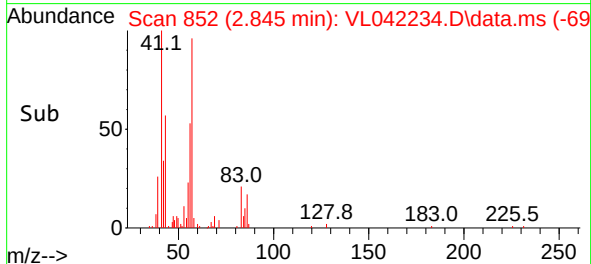
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 57 Resp: 8472
Ion Ratio Lower Upper
57 100
41 114.6 76.6 114.8
43 108.1 207.8 311.8
56 63.1 43.6 65.4

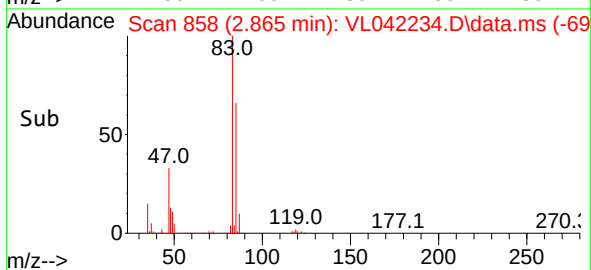
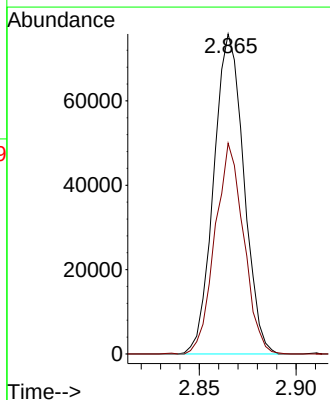
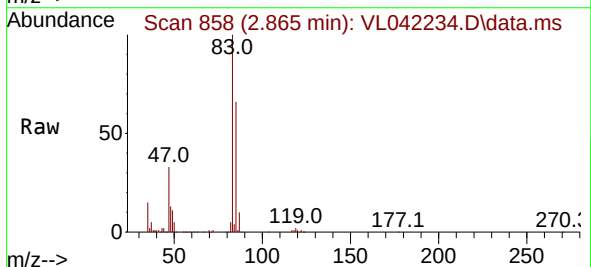
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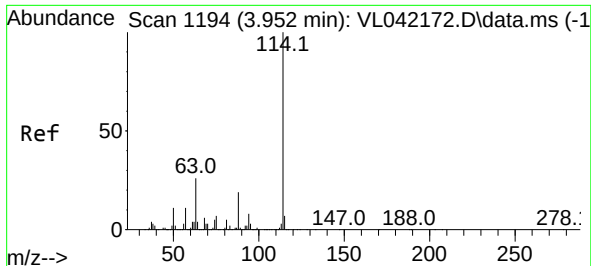
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#29
Chloroform
Concen: 2.015 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

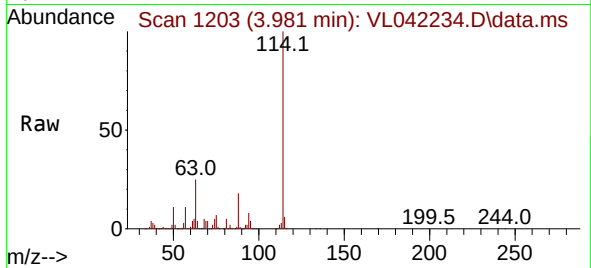
Tgt Ion: 83 Resp: 81943
Ion Ratio Lower Upper
83 100
85 65.8 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

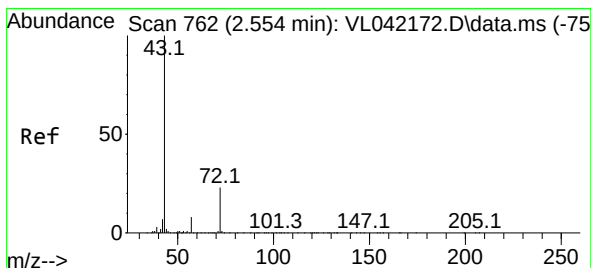
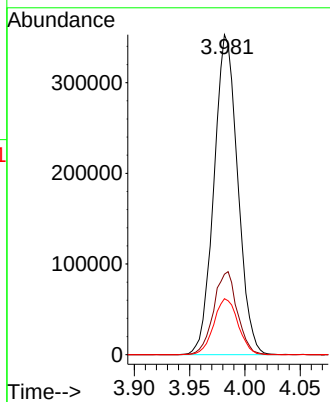
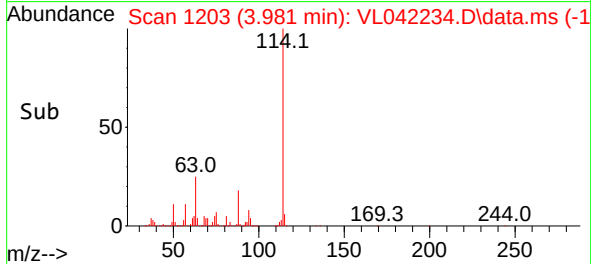
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-2-04012025



Tgt Ion:114 Resp: 52729
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 17.9 15.0 22.4

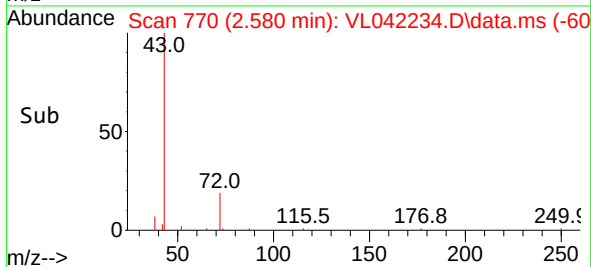
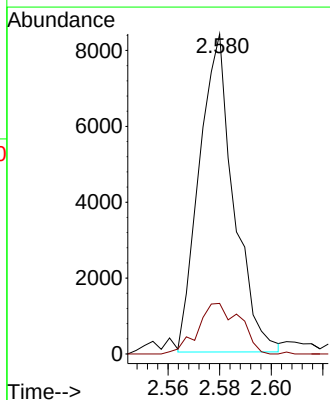
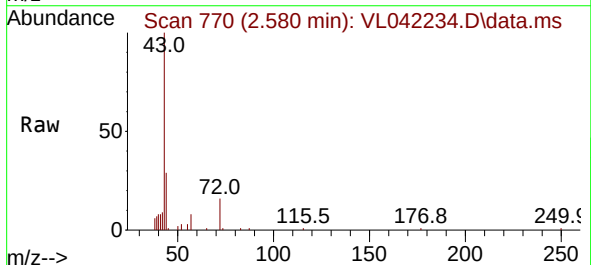
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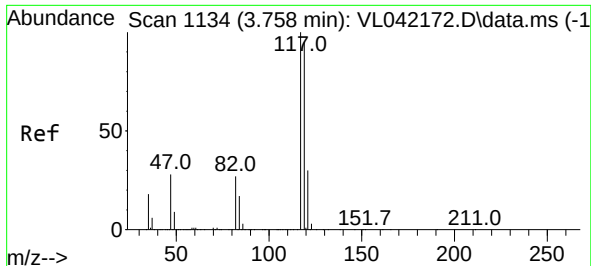
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#34
2-Butanone
Concen: 0.204 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

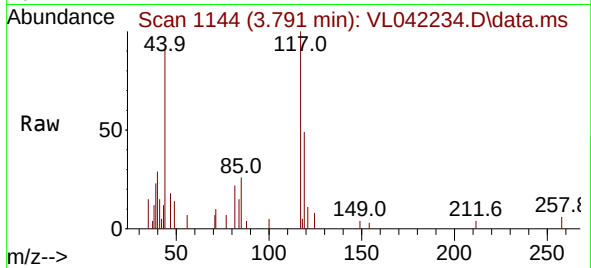
Tgt Ion: 43 Resp: 7789
Ion Ratio Lower Upper
43 100
72 19.6 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.791 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

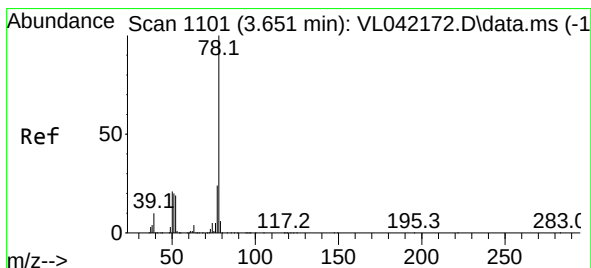
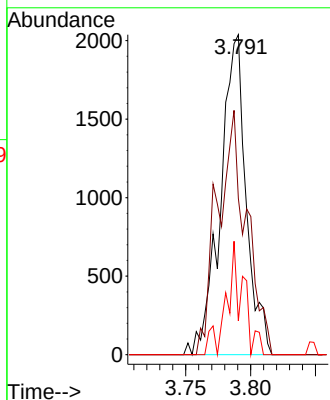
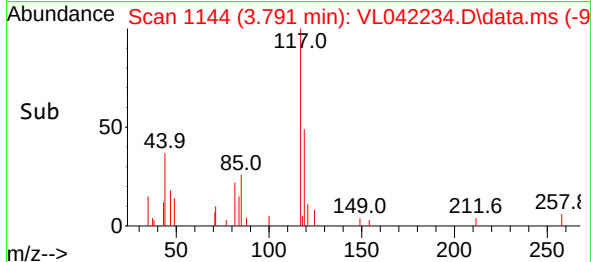
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 117 Resp: 2819
Ion Ratio Lower Upper
117 100
119 48.9 76.2 114.2
121 10.5 24.2 36.4

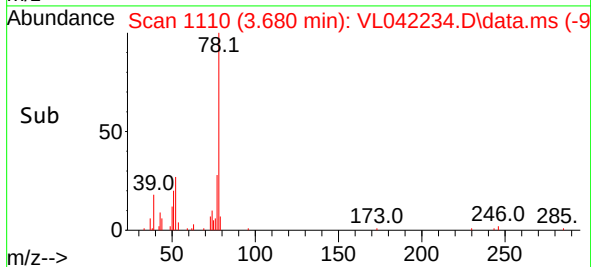
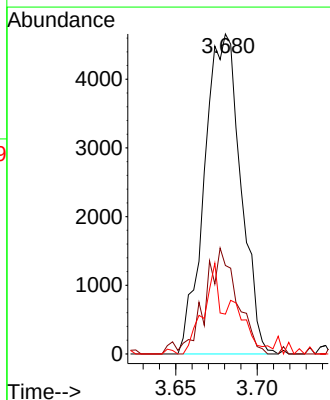
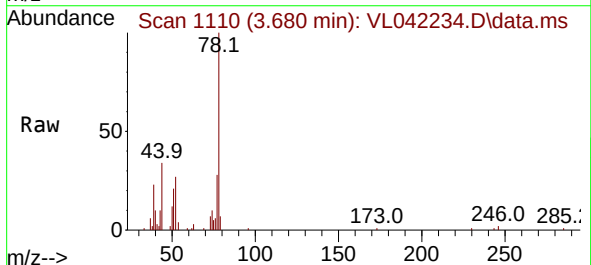
Manual Integrations
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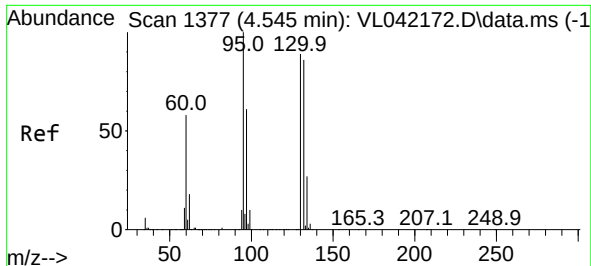
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.138 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

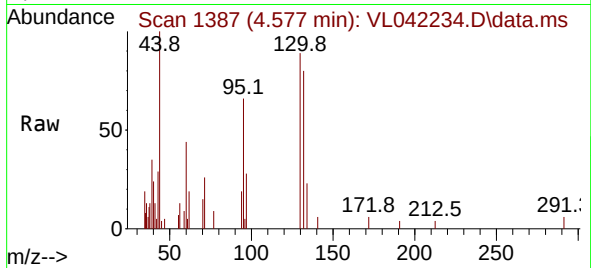
Tgt Ion: 78 Resp: 7218
Ion Ratio Lower Upper
78 100
77 27.6 19.1 28.7
50 12.5 16.6 24.8





#38
 Trichloroethene
 Concen: 0.067 ppbv m
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.032 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

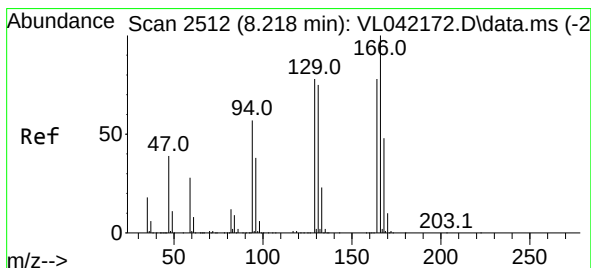
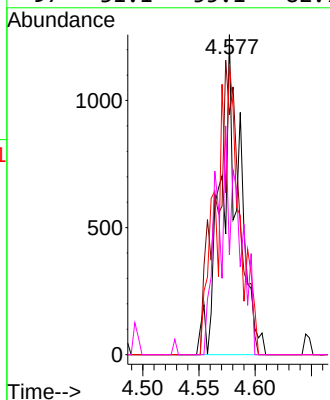
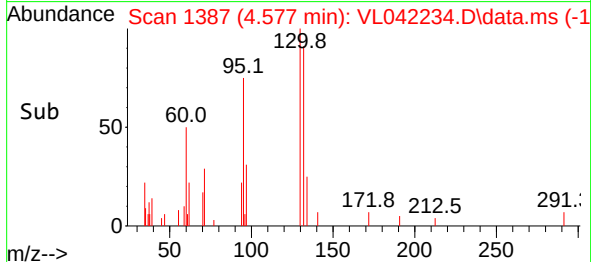
Instrument : MSVOA_L
 ClientSampleId : SSSG-B1-2-04012025



Tgt Ion:130 Resp: 145
 Ion Ratio Lower Upper
 130 100
 95 75.1 89.8 134.8#
 132 90.8 77.4 116.2#
 97 31.1 55.1 82.7#

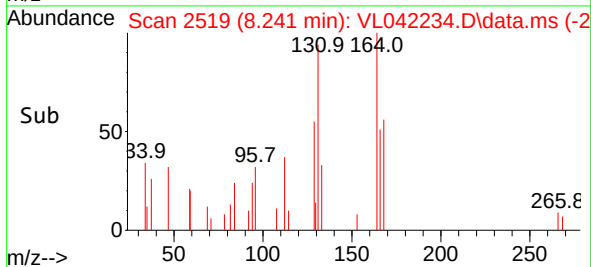
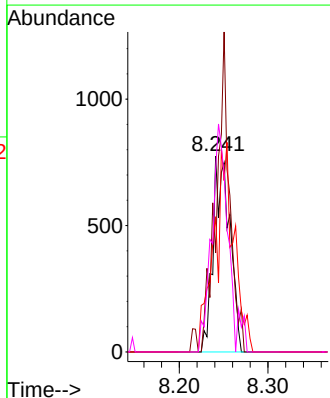
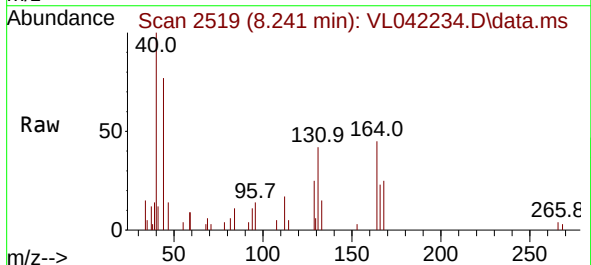
Manual Integrations
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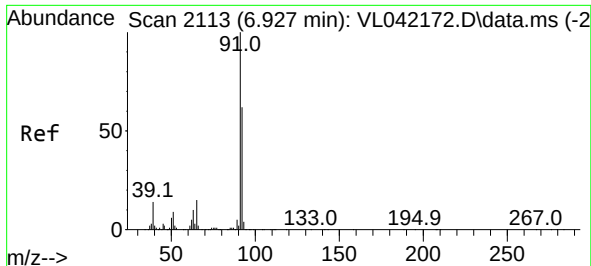
Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#52
 Tetrachloroethene
 Concen: 0.049 ppbv m
 RT: 8.241 min Scan# 2519
 Delta R.T. 0.023 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Tgt Ion:164 Resp: 1024
 Ion Ratio Lower Upper
 164 100
 166 50.6 102.5 153.7#
 129 55.0 79.8 119.8#
 131 93.8 76.6 114.8





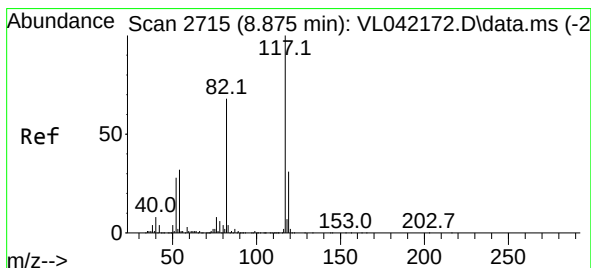
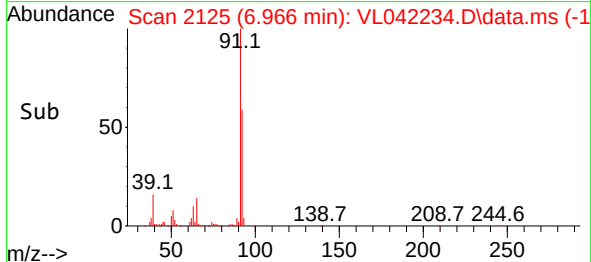
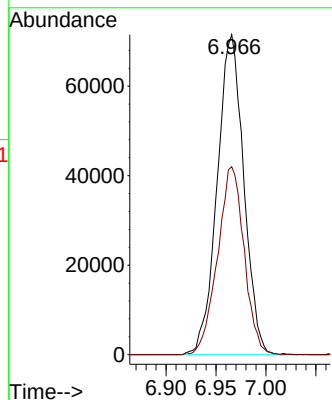
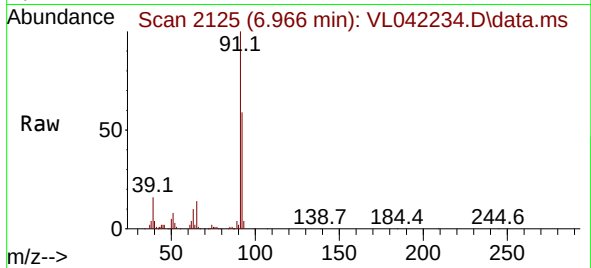
#53
Toluene
Concen: 2.132 ppbv
RT: 6.966 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument : MSVOA_L
ClientSampleId : SSSG-B1-2-04012025

Tgt Ion: 91 Resp: 132108
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6

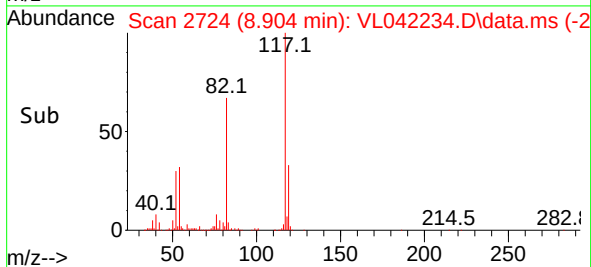
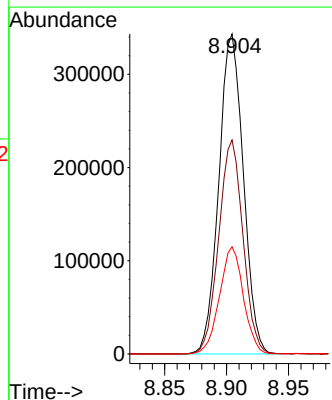
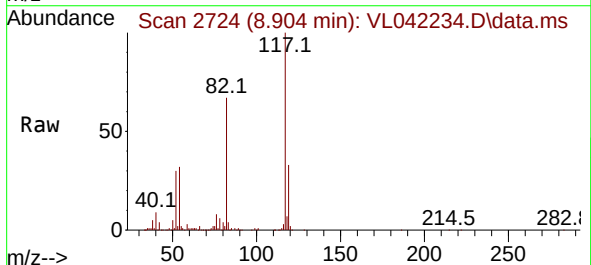
Manual Integrations
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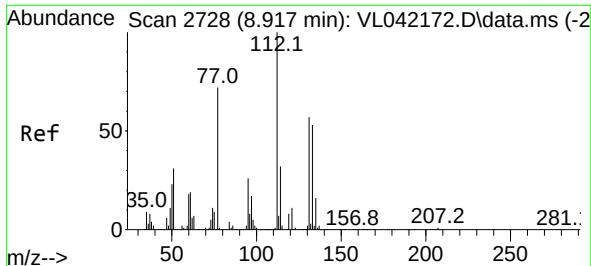
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

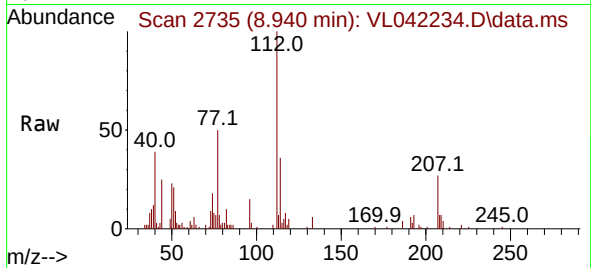
Tgt Ion:117 Resp: 473671
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.8 25.5 38.3





#57
Chlorobenzene
Concen: 0.198 ppbv
RT: 8.940 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

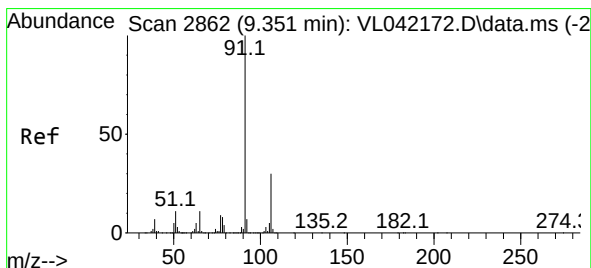
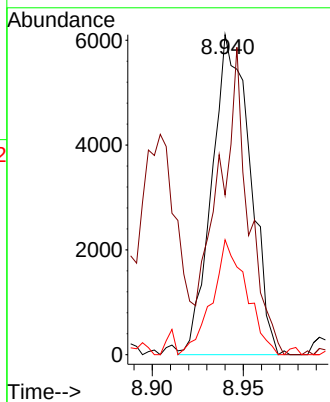
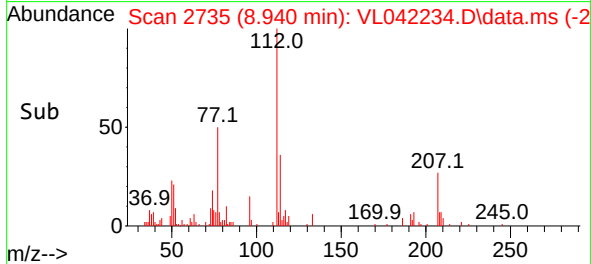
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion: 112 Resp: 890
Ion Ratio Lower Upper
112 100
77 46.2 58.2 87.2
114 35.9 29.1 35.5

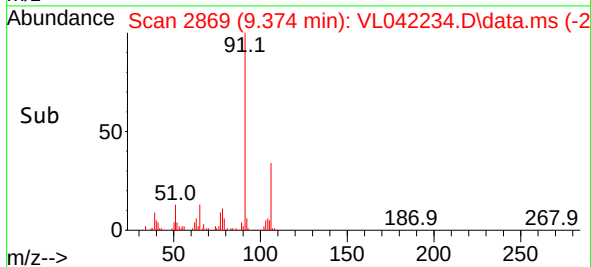
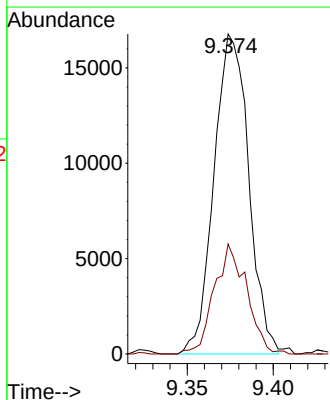
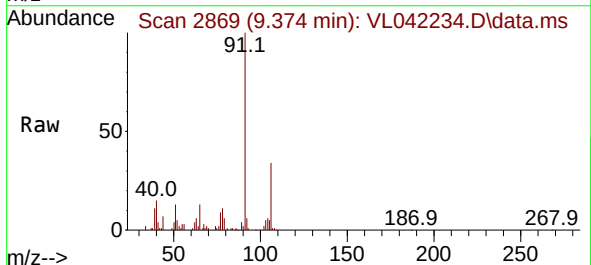
Manual Integrations
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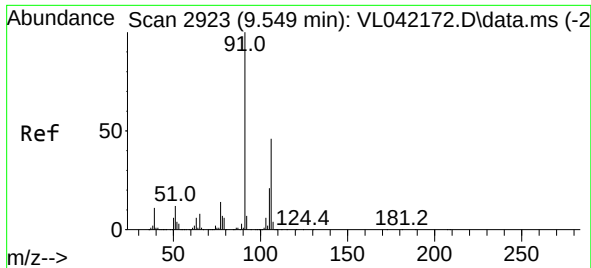
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#58
Ethyl Benzene
Concen: 0.279 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Tgt Ion: 91 Resp: 23493
Ion Ratio Lower Upper
91 100
106 34.3 24.2 36.2





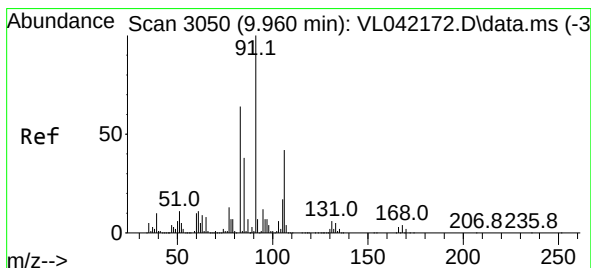
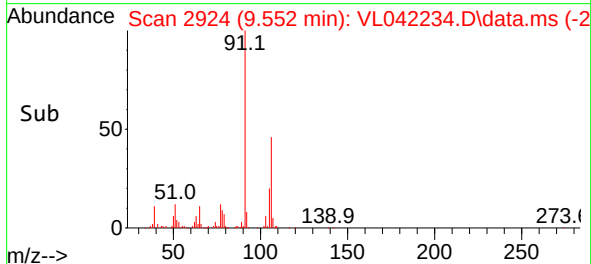
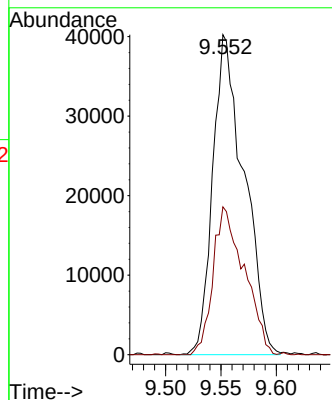
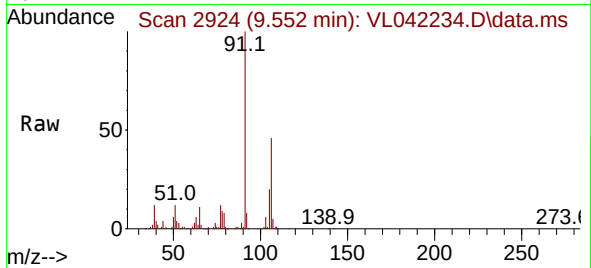
#59
m/p-Xylene
Concen: 1.177 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025

Tgt Ion: 91 Resp: 7908
Ion Ratio Lower Upper
91 100
106 46.2 36.4 54.6

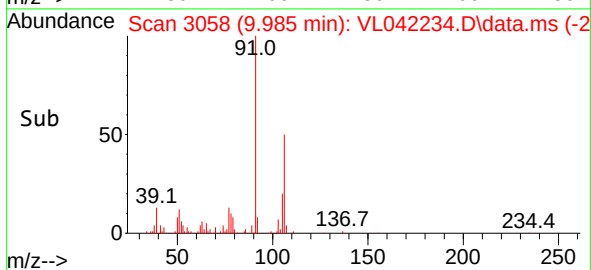
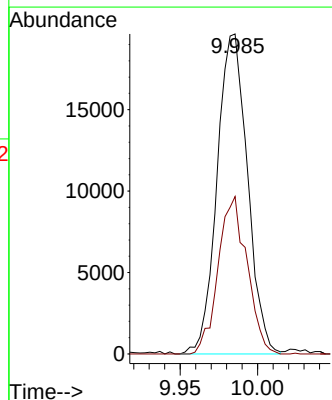
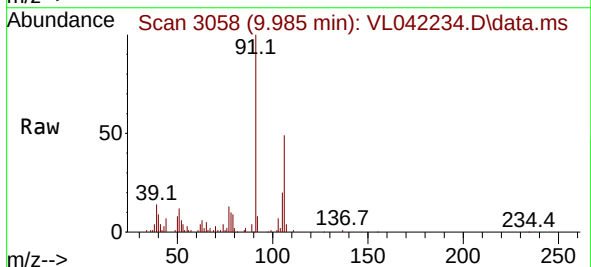
Manual Integrations
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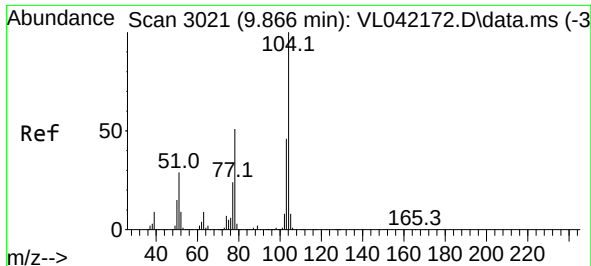
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#60
o-Xylene
Concen: 0.398 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

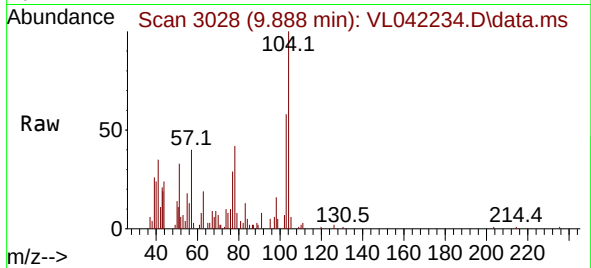
Tgt Ion: 91 Resp: 26822
Ion Ratio Lower Upper
91 100
106 46.6 20.8 62.5





#61
Styrene
Concen: 0.219 ppbv
RT: 9.888 min Scan# 3021
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

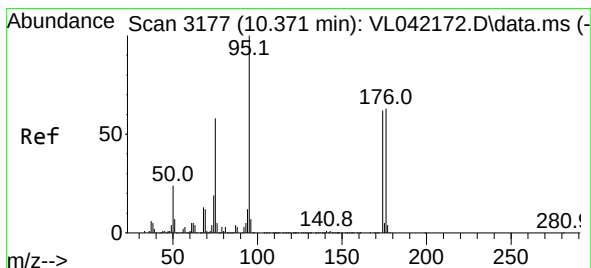
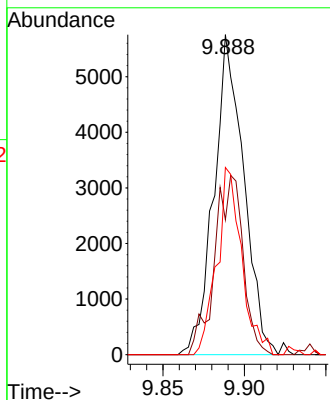
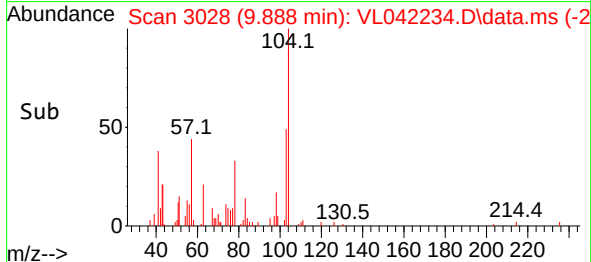
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-2-04012025



Tgt Ion:104 Resp: 7302
Ion Ratio Lower Upper
104 100
78 53.5 41.8 62.6
103 49.3 37.0 55.4

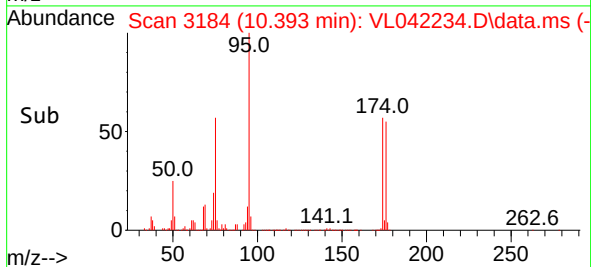
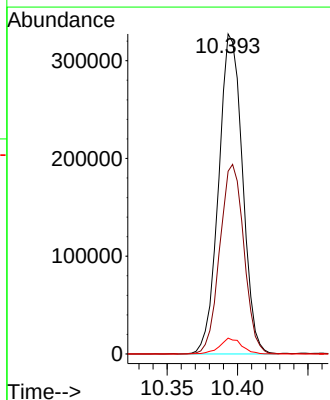
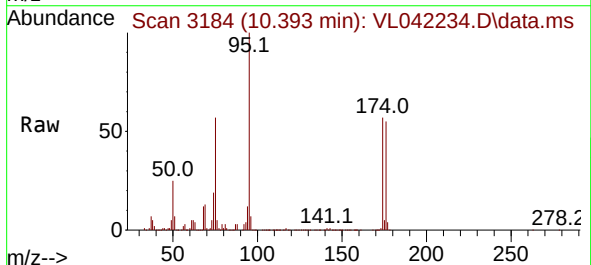
Manual Integrations
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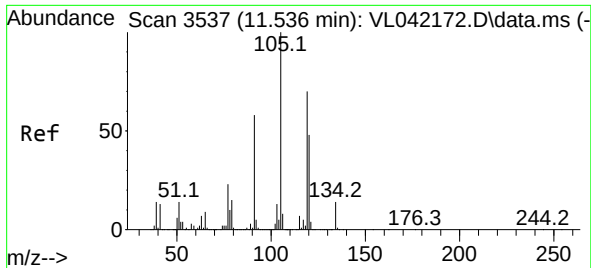
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.917 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042234.D
Acq: 07 Apr 2025 14:18

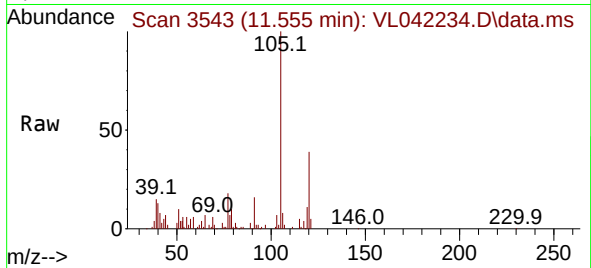
Tgt Ion: 95 Resp: 385746
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.233 ppbv
 RT: 11.555 min Scan# 3543
 Delta R.T. 0.019 min
 Lab File: VL042234.D
 Acq: 07 Apr 2025 14:18

Instrument : MSVOA_L
 ClientSampleId : SSSG-B1-2-04012025



Tgt Ion:	105	Resp:	1969
Ion Ratio	Lower	Upper	
105	100		
120	38.9	38.6	58.0
91	15.2	46.2	69.2
77	18.1	18.6	27.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

