

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042270.D
 Acq On : 08 Apr 2025 18:32
 Operator : SY/MD
 Sample : Q1728-05 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 01:59:10 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	2.793	49	154011	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	400286	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	369657	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	284411	9.369	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	3740	0.351	ppbv #	15
10) Heptane	4.994	43	4491m	0.159	ppbv	
13) Ethanol	1.725	45	11177	11.104	ppbv	82
15) Acetone	1.839	43	963854	44.749	ppbv	99
17) tert-Butyl alcohol	2.049	59	8016	0.299	ppbv	95
19) Isopropyl Alcohol	1.890	45	10956	0.902	ppbv #	30
20) Methylene Chloride	2.065	84	4978	0.621	ppbv #	89
26) Hexane	2.829	57	4287m	0.199	ppbv	
27) Carbon Disulfide	2.156	76	10815	0.467	ppbv #	74
34) 2-Butanone	2.567	43	50434	1.738	ppbv	98
36) Benzene	3.664	78	4732m	0.119	ppbv	
38) Trichloroethene	4.561	130	561m	0.034	ppbv	
44) 2,2,4-Trimethylpentane	4.654	57	27995	0.417	ppbv #	78
53) Toluene	6.952	91	90177	1.917	ppbv	98
58) Ethyl Benzene	9.367	91	7995m	0.122	ppbv	
59) m/p-Xylene	9.545	91	16482m	0.314	ppbv	
60) o-Xylene	9.972	91	6578	0.125	ppbv	98
71) 2-Chlorotoluene	10.911	91	79777	1.308	ppbv	100

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

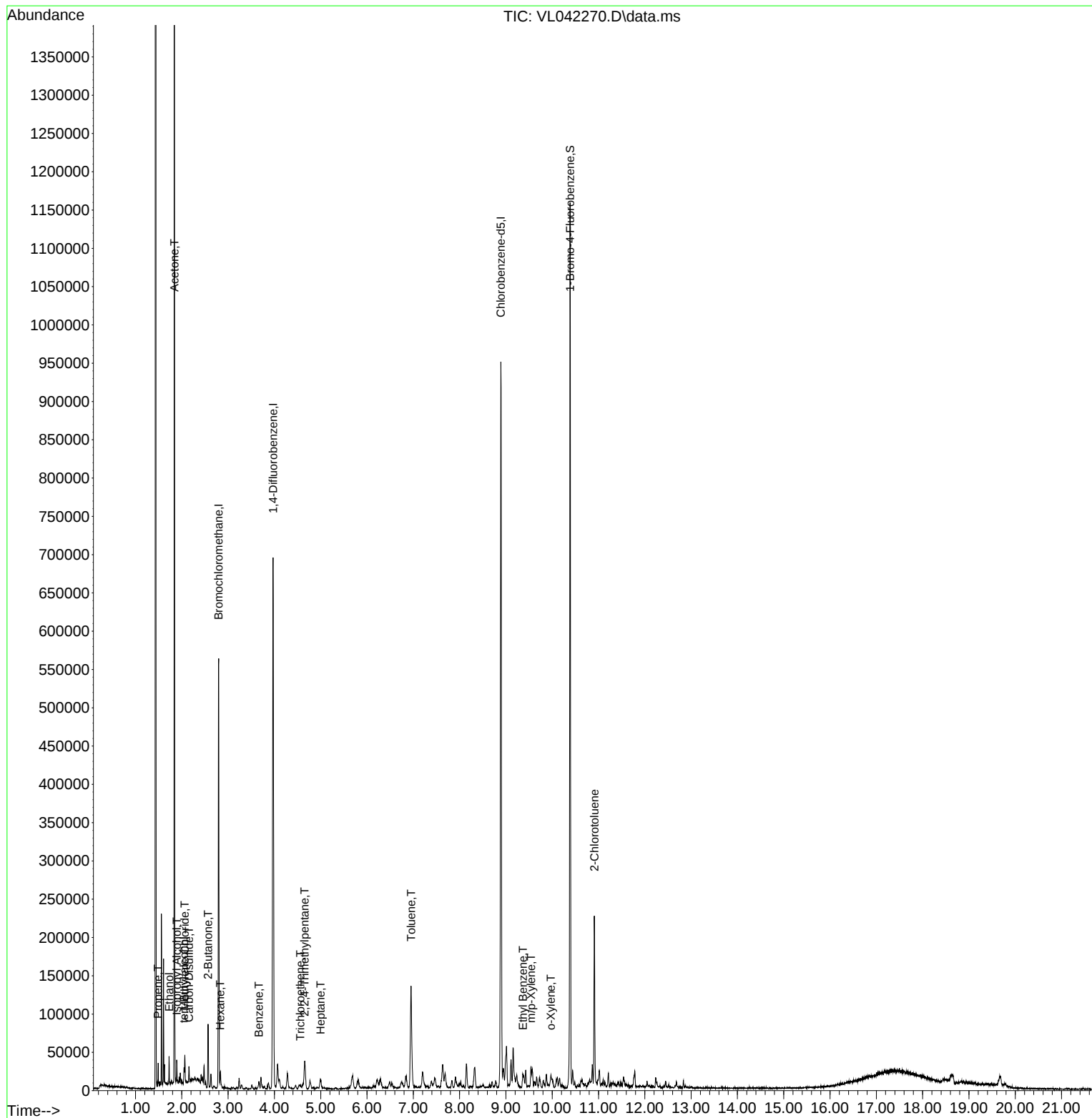
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042270.D
Acq On : 08 Apr 2025 18:32
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Sample : Q1728-05 10X
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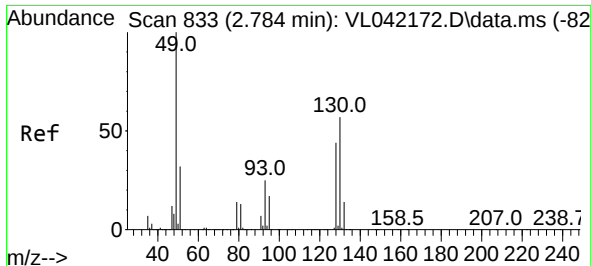
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

Quant Time: Apr 09 01:59:10 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

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APPROVED

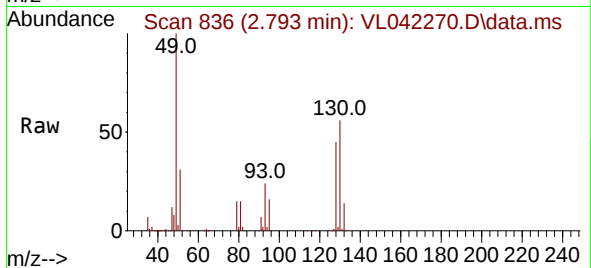
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

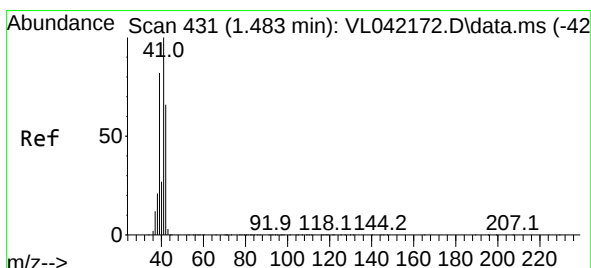
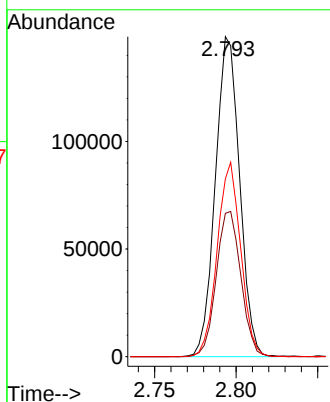
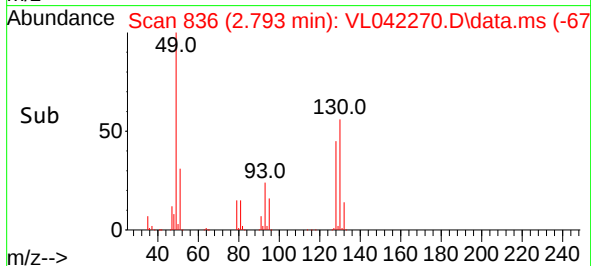
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 49 Resp: 15401
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.7 28.8 86.4

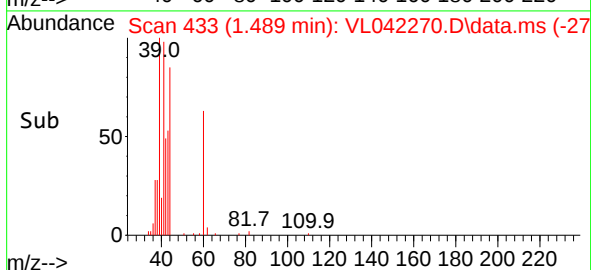
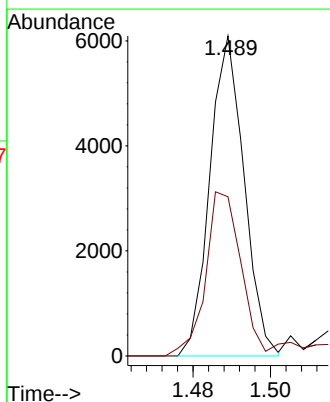
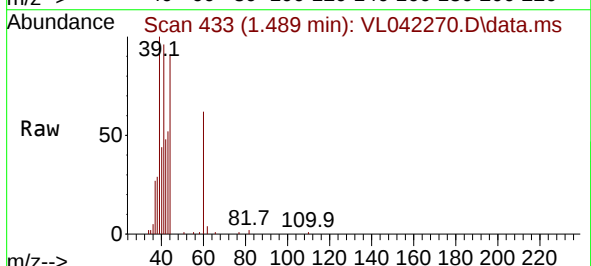
Manual Integrations
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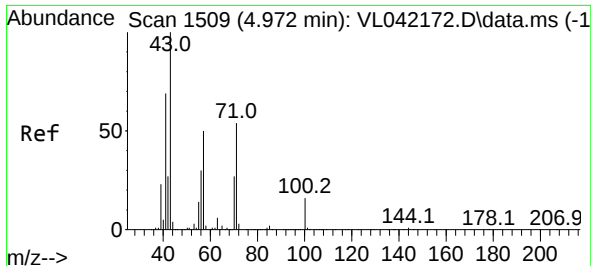
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.351 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

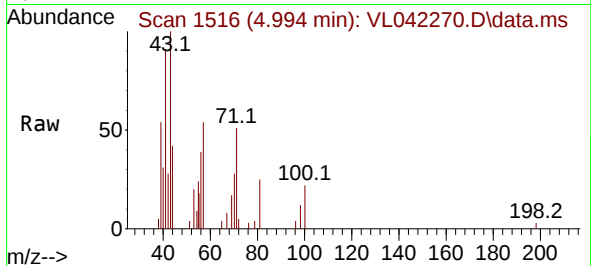
Tgt Ion: 41 Resp: 3740
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2#





#10
Heptane
Concen: 0.159 ppbv m
RT: 4.994 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

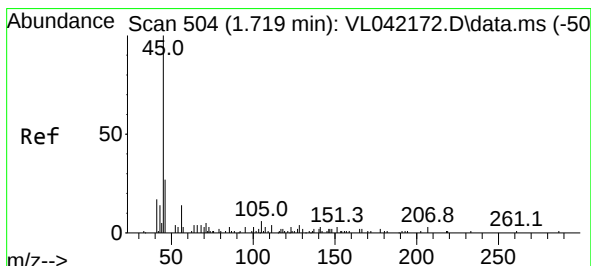
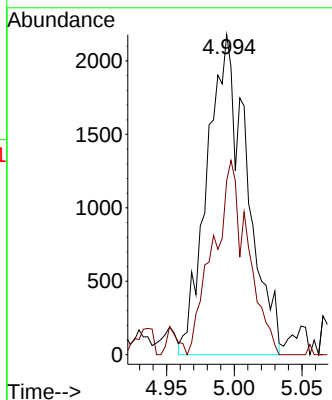
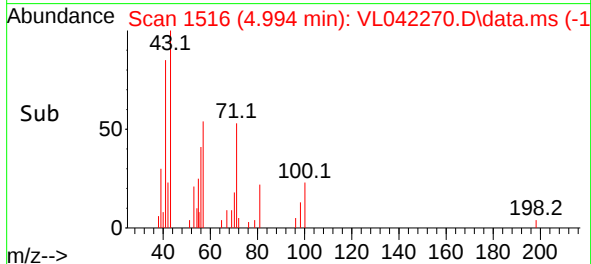
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
57 54.5 39.4 59.2

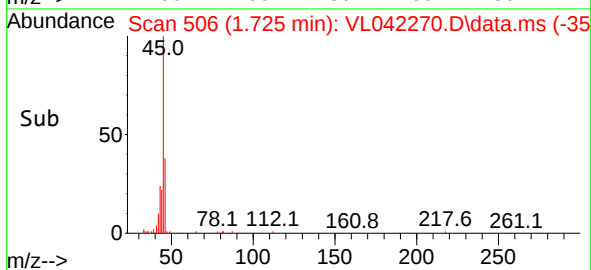
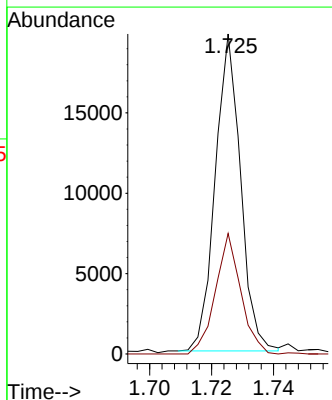
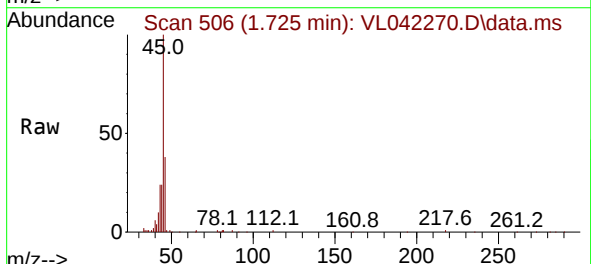
Manual Integrations
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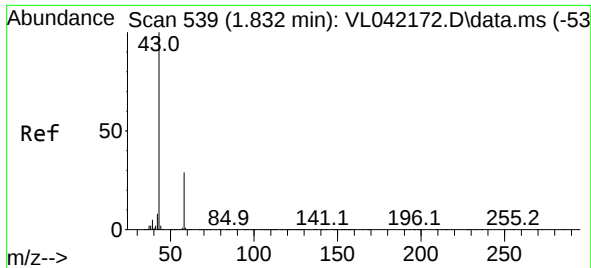
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 11.104 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

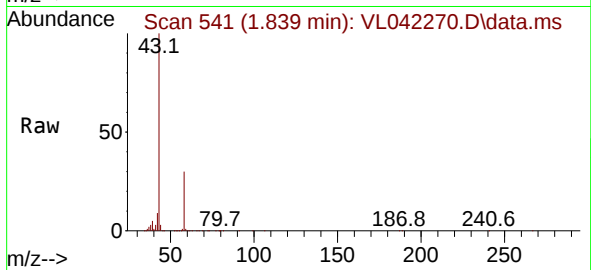
Tgt Ion: 45 Resp: 11177
Ion Ratio Lower Upper
45 100
46 38.3 20.2 80.8





#15
Acetone
Concen: 44.749 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

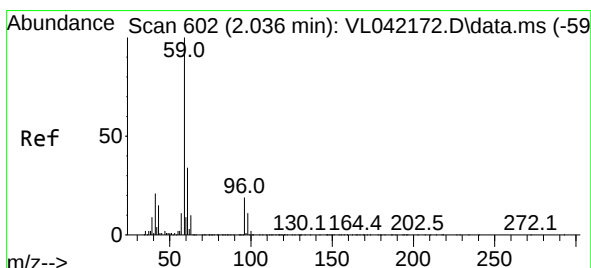
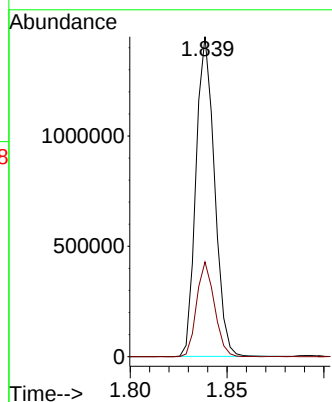
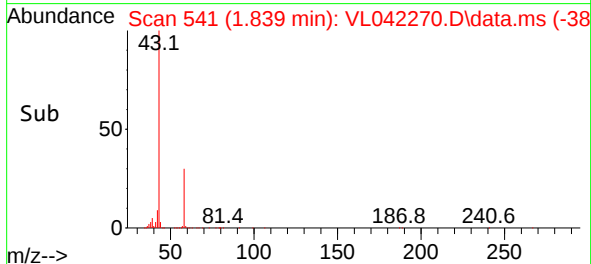
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



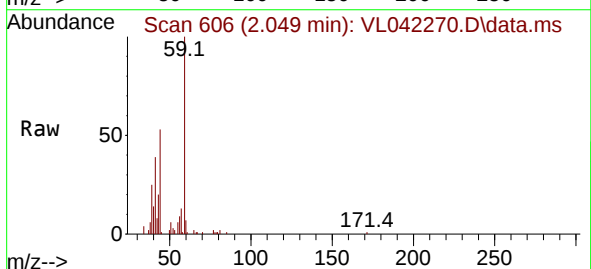
Tgt Ion: 43 Resp: 963854
Ion Ratio Lower Upper
43 100
58 28.5 23.2 34.8

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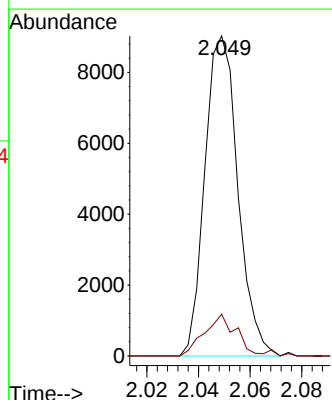
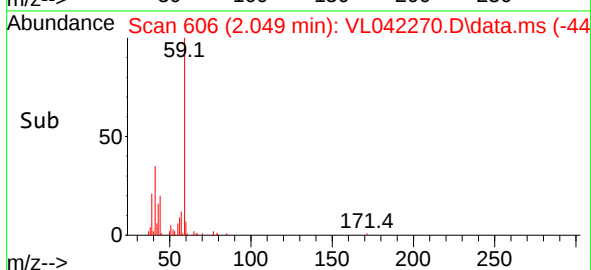
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

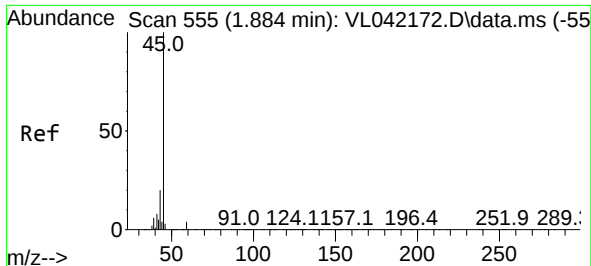


#17
tert-Butyl alcohol
Concen: 0.299 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32



Tgt Ion: 59 Resp: 8016
Ion Ratio Lower Upper
59 100
57 13.1 8.9 13.3





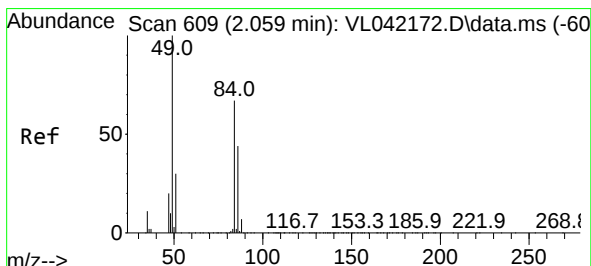
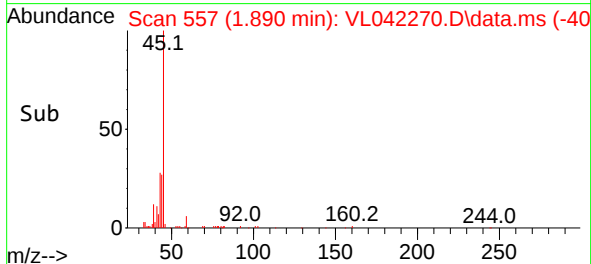
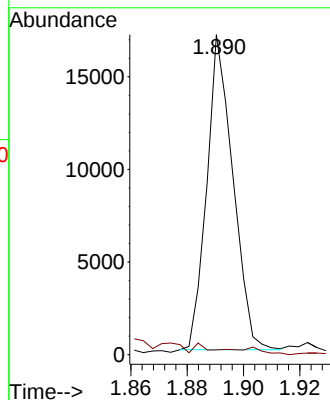
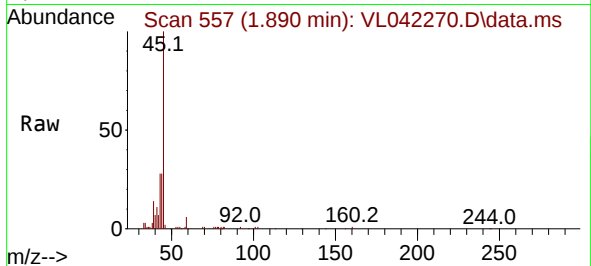
#19
Isopropyl Alcohol
Concen: 0.902 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

Tgt Ion: 45 Resp: 10950
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3

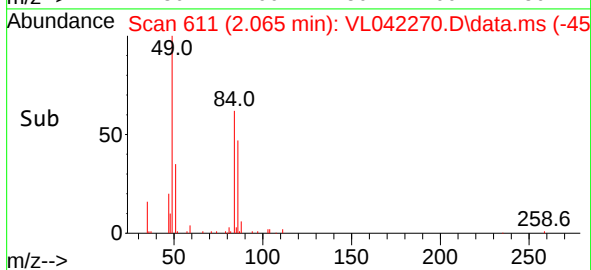
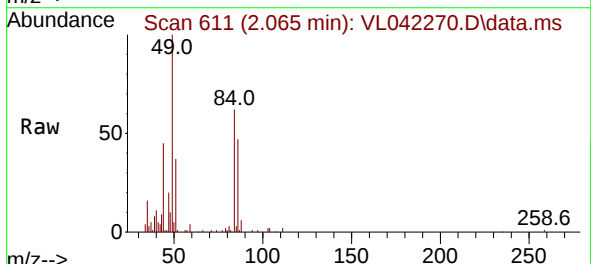
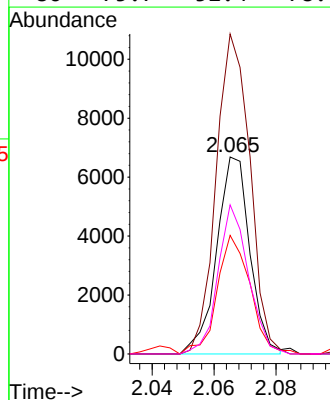
Manual Integrations
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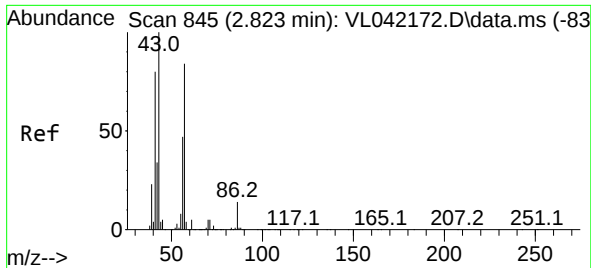
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.621 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

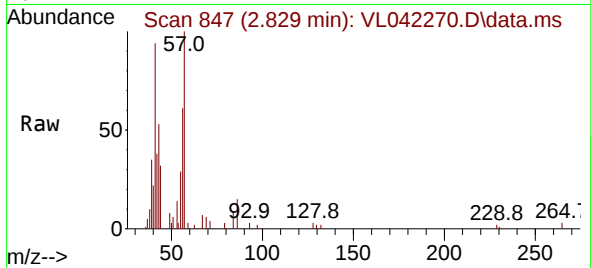
Tgt Ion: 84 Resp: 4978
Ion Ratio Lower Upper
84 100
49 159.6 120.2 180.4
51 60.2 37.4 56.0#
86 75.7 52.4 78.6





#26
Hexane
Concen: 0.199 ppbv m
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

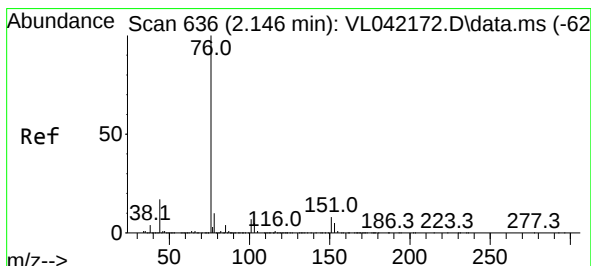
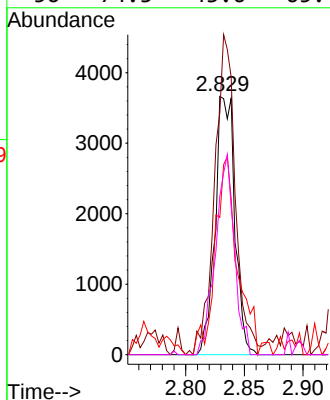
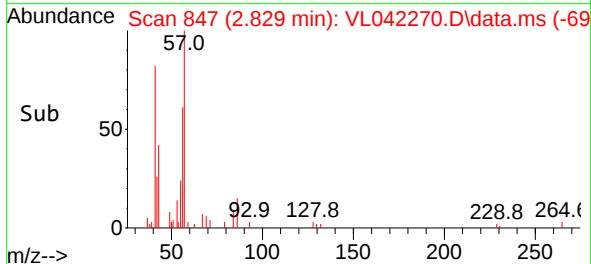
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



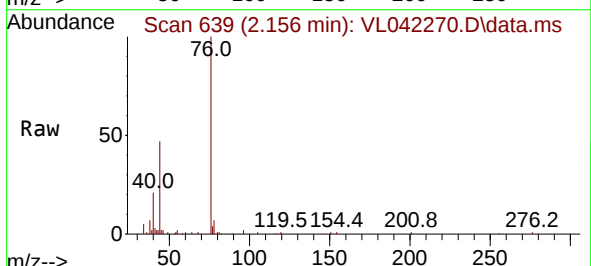
Tgt Ion: 57 Resp: 428
Ion Ratio Lower Upper
57 100
41 133.1 76.6 114.8
43 89.0 207.8 311.8
56 74.3 43.6 65.4#

Manual Integrations
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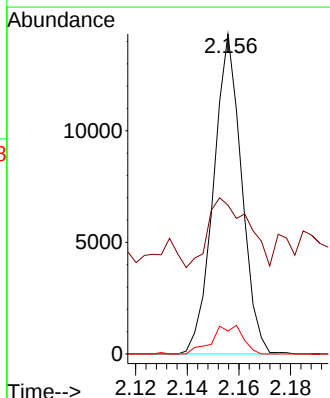
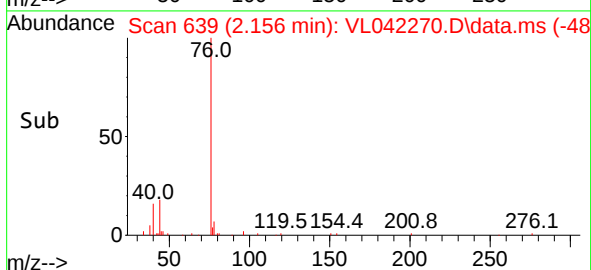
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

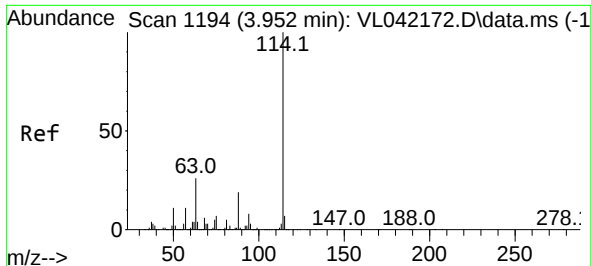


#27
Carbon Disulfide
Concen: 0.467 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.009 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32



Tgt Ion: 76 Resp: 10815
Ion Ratio Lower Upper
76 100
44 35.7 14.7 22.1#
78 9.8 9.3 13.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1194

Delta R.T. 0.019 min

Lab File: VL042270.D

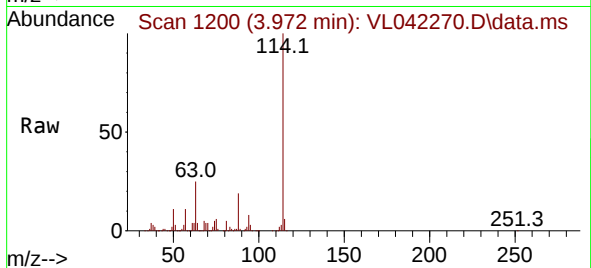
Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025



Tgt Ion:114 Resp: 400280

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

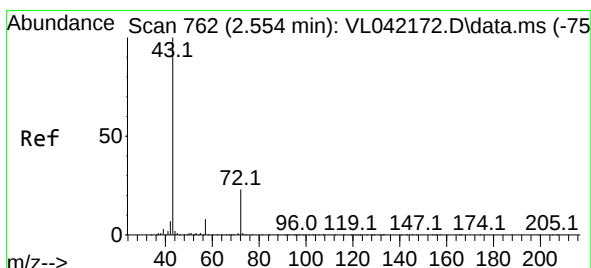
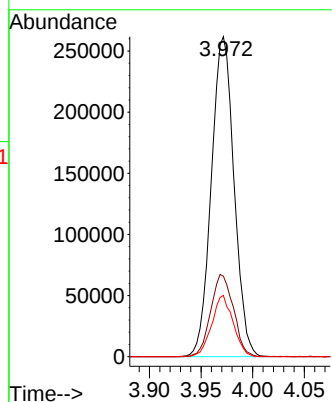
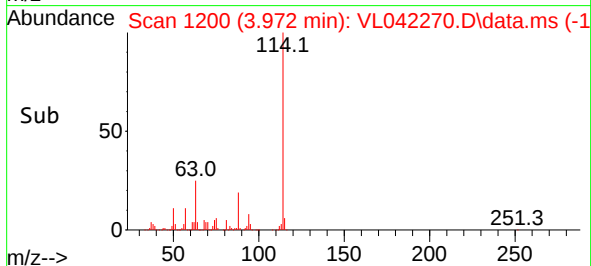
88 18.0 15.0 22.4

Manual Integrations

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#34

2-Butanone

Concen: 1.738 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.013 min

Lab File: VL042270.D

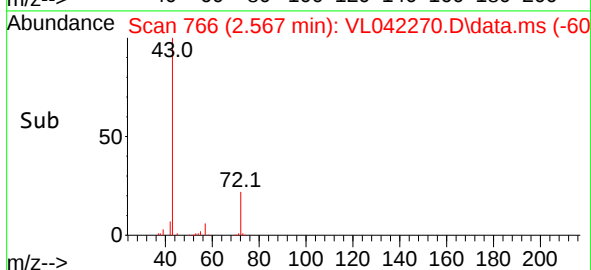
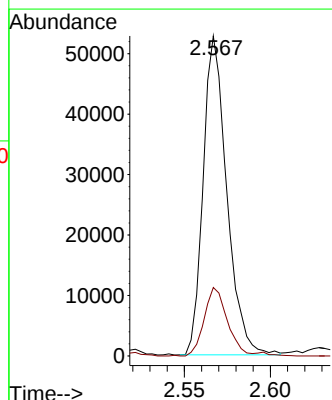
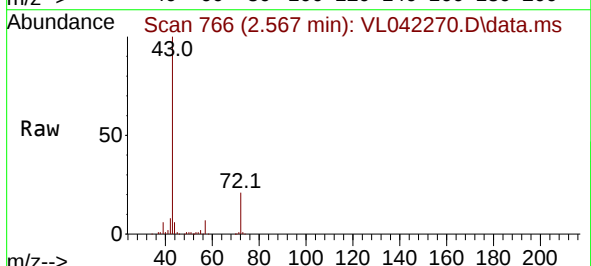
Acq: 08 Apr 2025 18:32

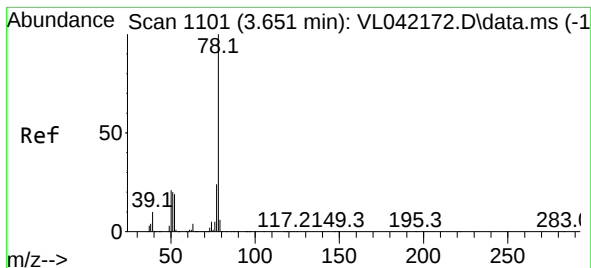
Tgt Ion: 43 Resp: 50434

Ion Ratio Lower Upper

43 100

72 21.6 18.2 27.2





#36

Benzene

Concen: 0.119 ppbv m

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025

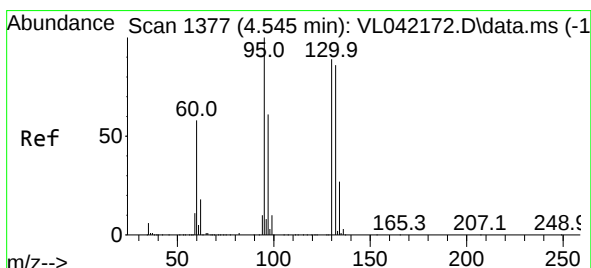
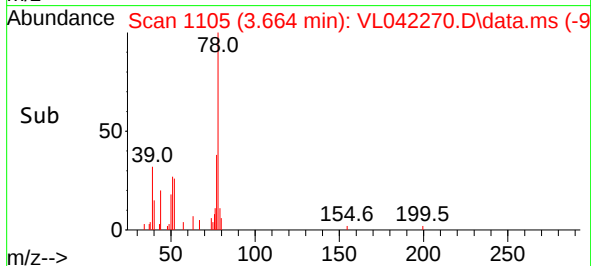
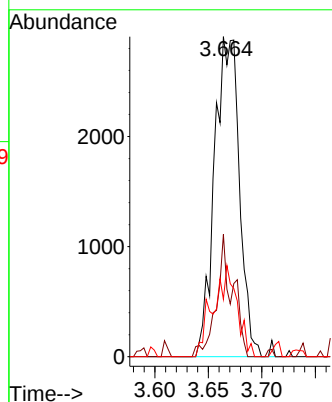
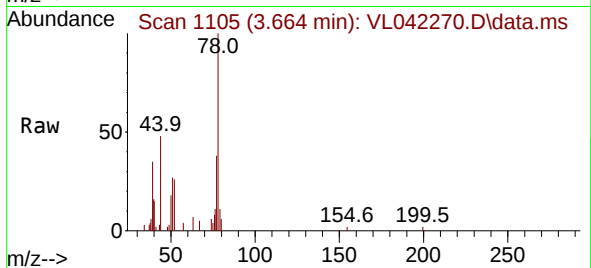
Tgt Ion: 78	Resp: 473
Ion Ratio	Lower Upper
78 100	
77 38.2	19.1 28.7
50 18.0	16.6 24.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#38

Trichloroethene

Concen: 0.034 ppbv m

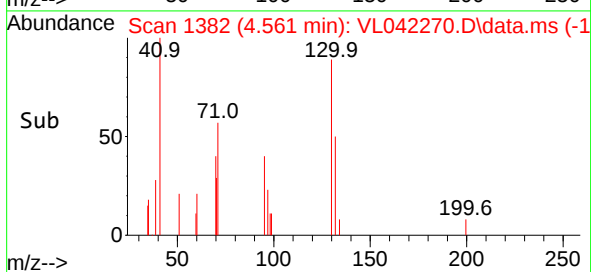
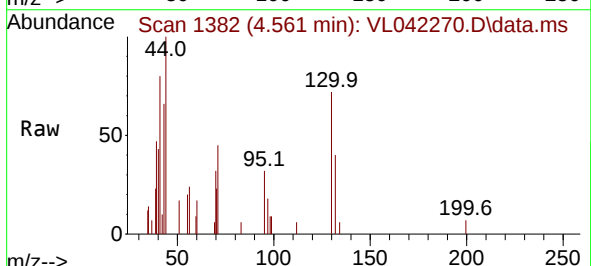
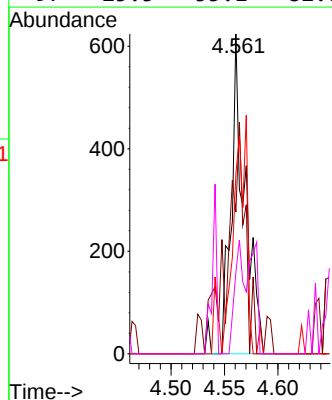
RT: 4.561 min Scan# 1382

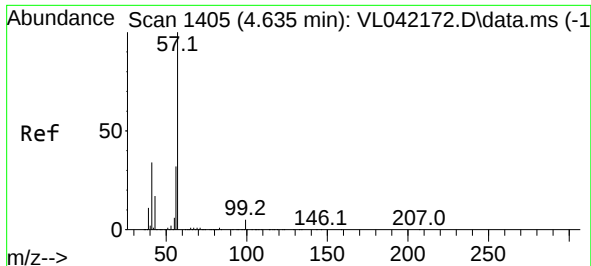
Delta R.T. 0.016 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

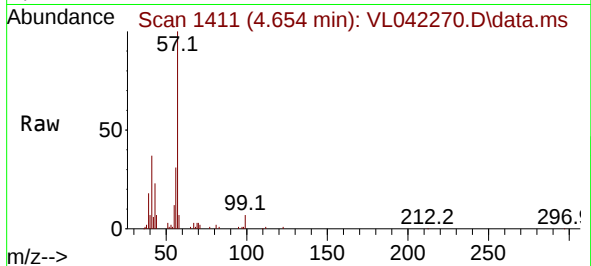
Tgt Ion:130	Resp: 561
Ion Ratio	Lower Upper
130 100	
95 44.4	89.8 134.8#
132 56.3	77.4 116.2#
97 25.5	55.1 82.7#





#44
2,2,4-Trimethylpentane
Concen: 0.417 ppbv
RT: 4.654 min Scan# 1405
Delta R.T. 0.019 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

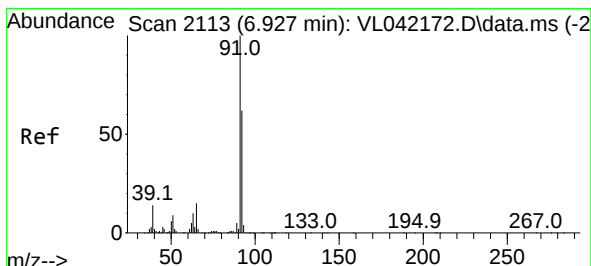
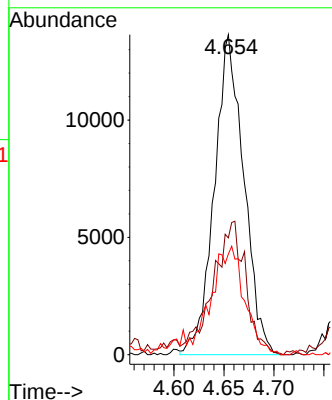
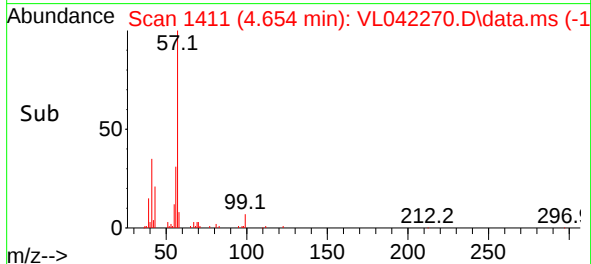
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



Tgt Ion: 57 Resp: 2799
Ion Ratio Lower Upper
57 100
41 48.5 26.8 40.2
56 42.0 25.6 38.4

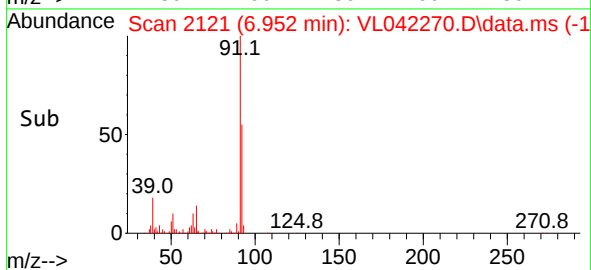
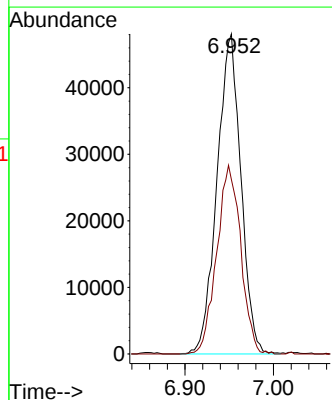
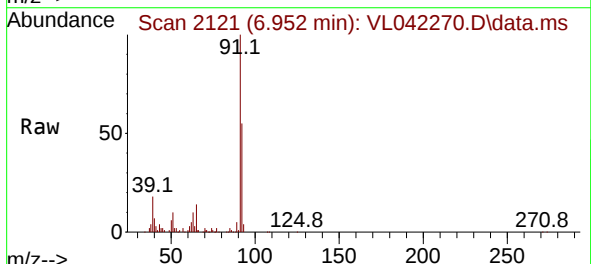
Manual Integrations
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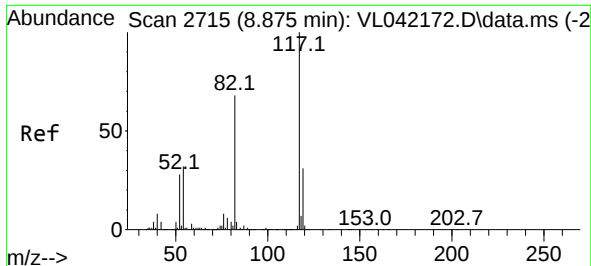
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 1.917 ppbv
RT: 6.952 min Scan# 2121
Delta R.T. 0.026 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

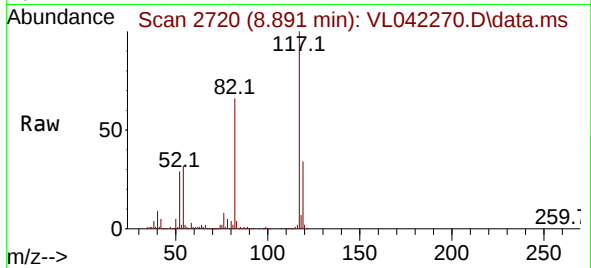
Tgt Ion: 91 Resp: 90177
Ion Ratio Lower Upper
91 100
92 59.3 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

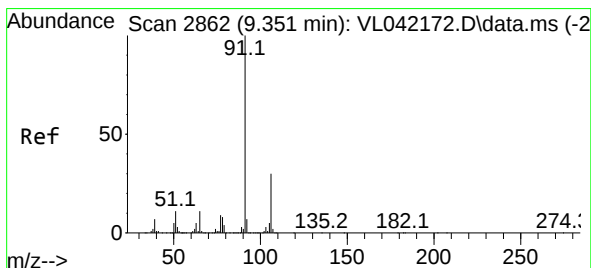
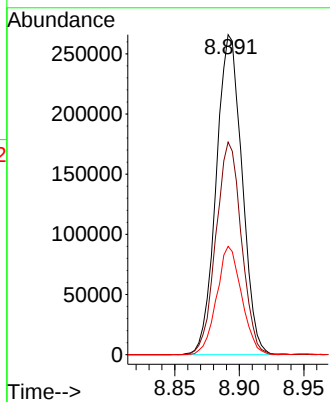
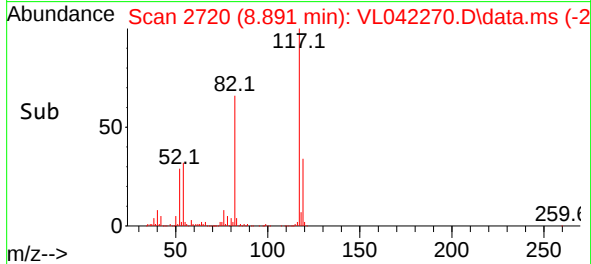
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



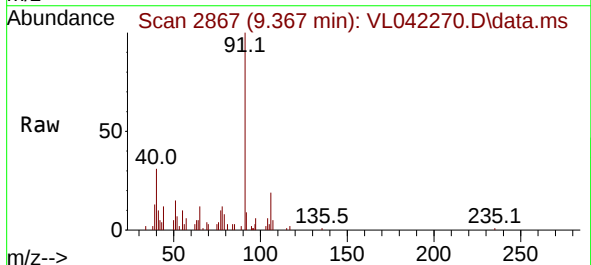
Tgt Ion: 117 Resp: 36965
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.8 25.5 38.3

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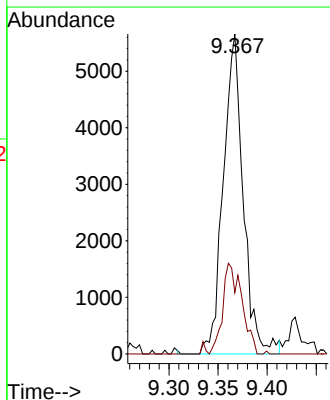
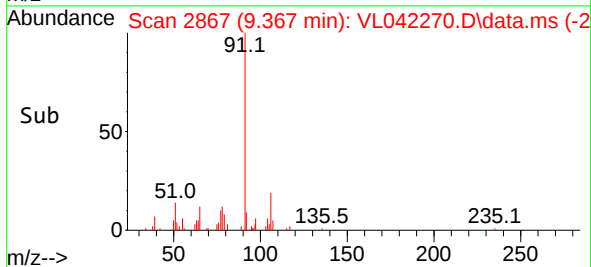
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

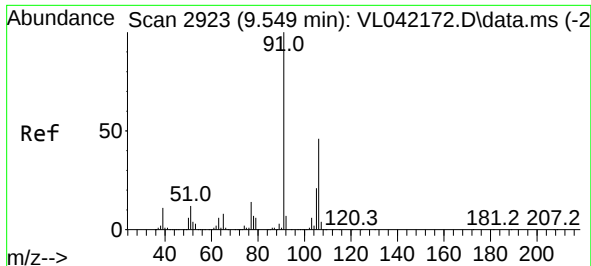


#58
Ethyl Benzene
Concen: 0.122 ppbv m
RT: 9.367 min Scan# 2867
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32



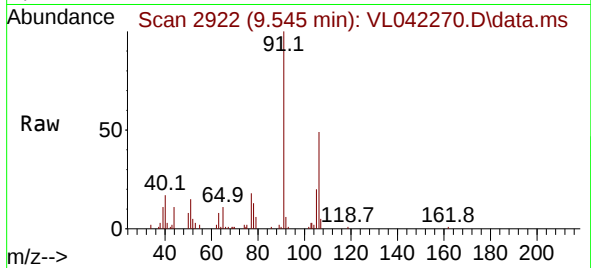
Tgt Ion: 91 Resp: 7995
Ion Ratio Lower Upper
91 100
106 19.2 24.2 36.2#





#59
m/p-Xylene
Concen: 0.314 ppbv m
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

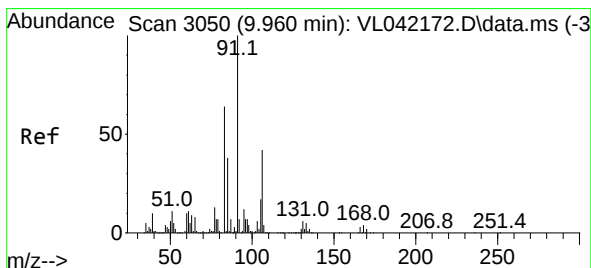
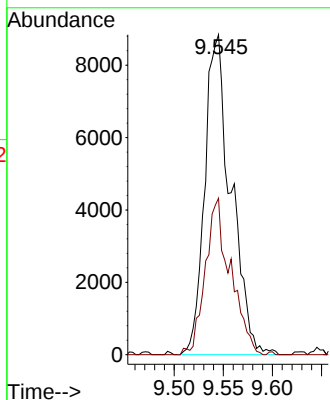
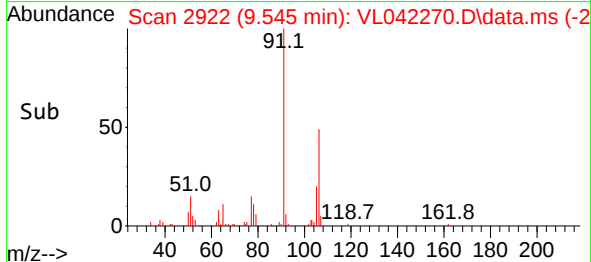
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 91 Resp: 1648
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

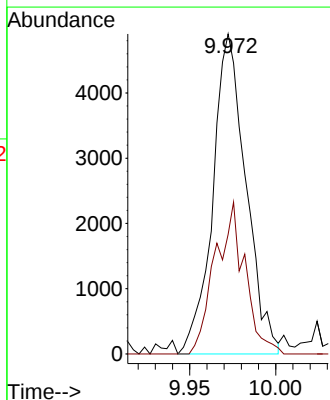
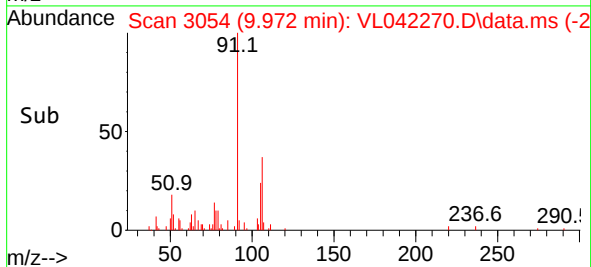
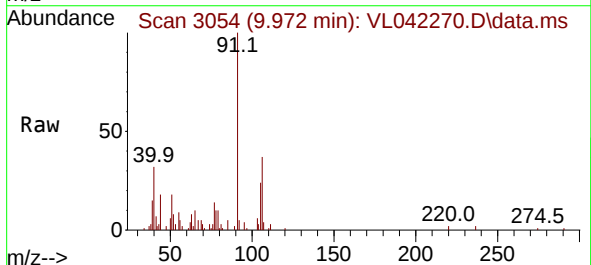
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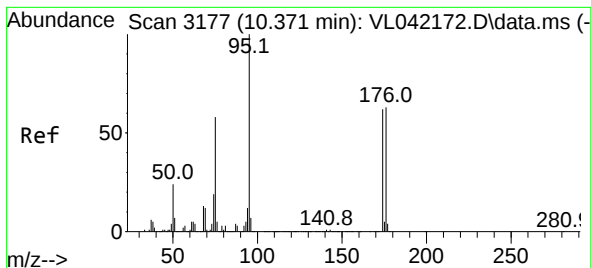
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#60
o-Xylene
Concen: 0.125 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

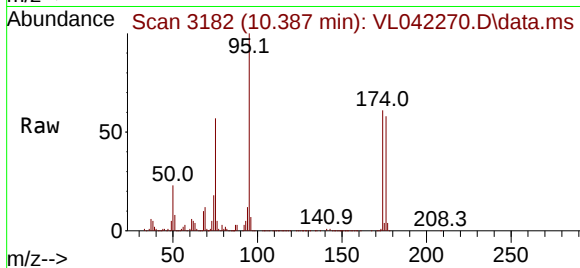
Tgt Ion: 91 Resp: 6578
Ion Ratio Lower Upper
91 100
106 42.8 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.369 ppbv
RT: 10.387 min Scan# 3177
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

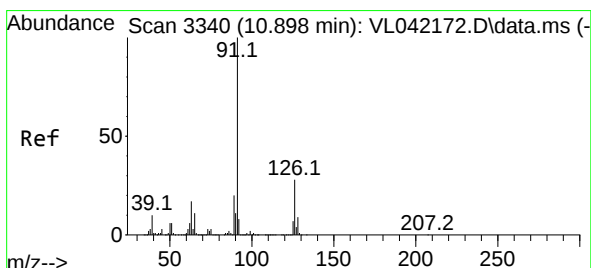
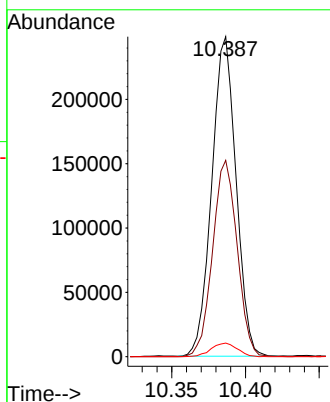
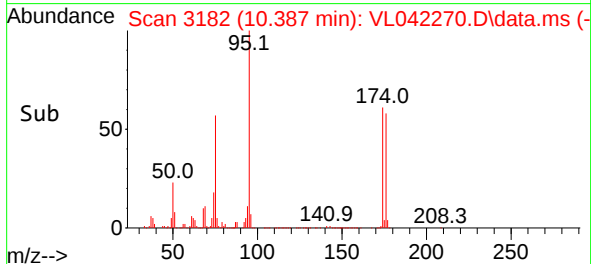
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



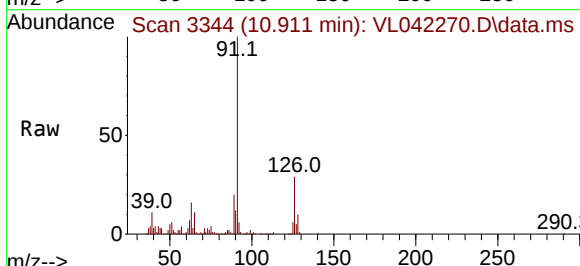
Tgt Ion: 95 Resp: 28441
Ion Ratio Lower Upper
95 100
174 62.1 50.6 76.0
175 4.6 3.8 5.6

Manual Integrations
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Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#71
2-Chlorotoluene
Concen: 1.308 ppbv
RT: 10.911 min Scan# 3344
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32



Tgt Ion: 91 Resp: 79777
Ion Ratio Lower Upper
91 100
126 29.1 11.6 46.4

