

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042871.D
 Acq On : 21 Aug 2025 18:28
 Operator : SY/MD
 Sample : Q2887-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:26:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 01:26:13 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	126154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	363018	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	323989	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	251283	10.342	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						Qvalue
10) Heptane	5.001	43	21321m	0.902	ppbv	
13) Ethanol	1.725	45	9776	12.114	ppbv	96
15) Acetone	1.839	43	352904	21.147	ppbv	99
17) tert-Butyl alcohol	2.049	59	3609	0.182	ppbv #	85
19) Isopropyl Alcohol	1.890	45	5560	0.558	ppbv #	1
20) Methylene Chloride	2.065	84	1528	0.219	ppbv	88
26) Hexane	2.832	57	112674	6.044	ppbv #	45
30) Cyclohexane	3.868	84	4899m	0.300	ppbv	
34) 2-Butanone	2.567	43	23527	0.960	ppbv	96
36) Benzene	3.664	78	3596m	0.103	ppbv	
41) Tetrahydrofuran	3.078	42	4818m	0.353	ppbv	
51) 2-Hexanone	7.444	43	39311m	1.508	ppbv	
52) Tetrachloroethene	8.234	164	1530m	0.122	ppbv	
53) Toluene	6.946	91	51930m	1.257	ppbv	
58) Ethyl Benzene	9.367	91	20437	0.357	ppbv	90
59) m/p-Xylene	9.539	91	40861	0.912	ppbv #	100
60) o-Xylene	9.975	91	16940	0.376	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	9791	0.192	ppbv #	57

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

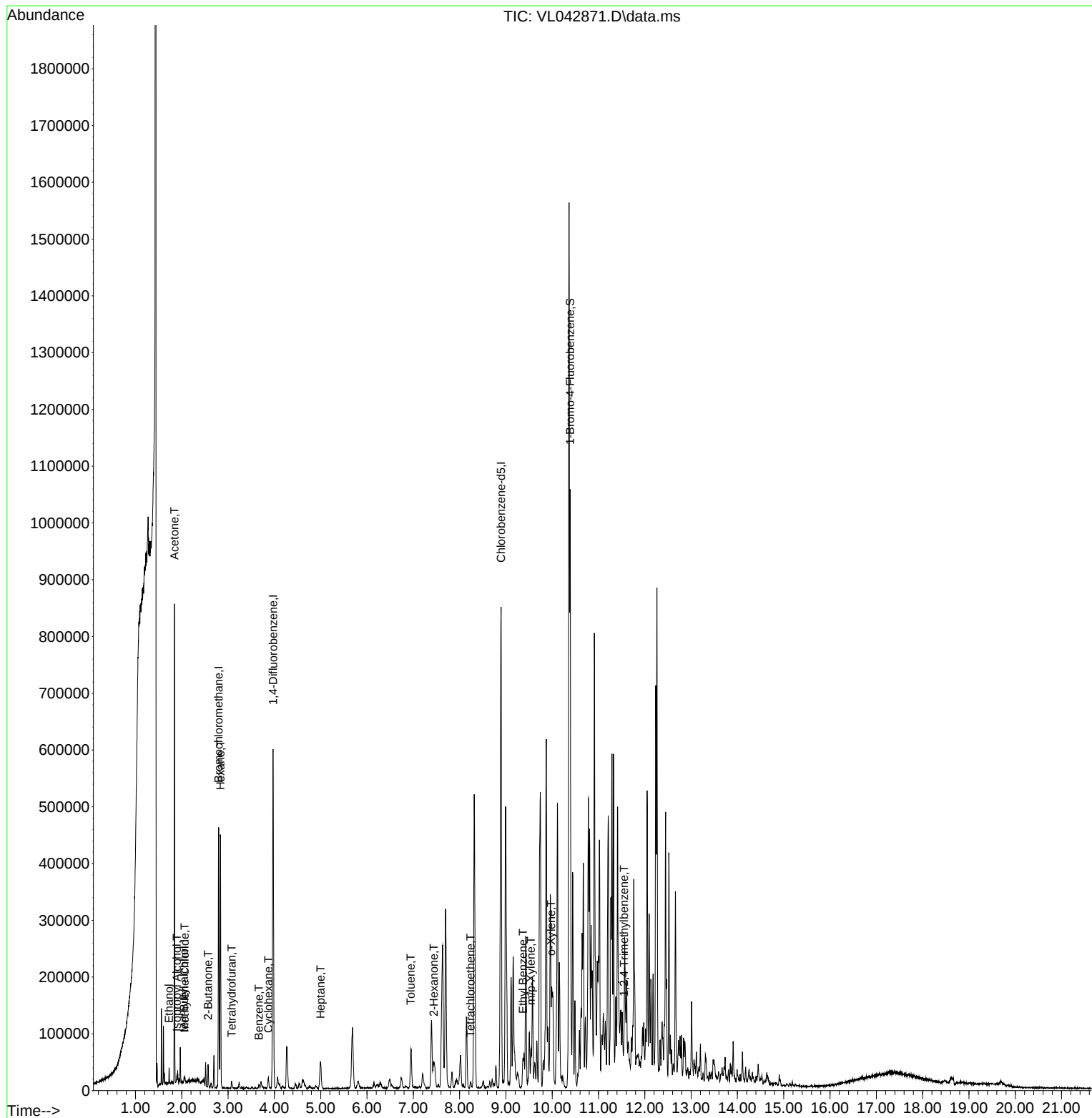
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042871.D
Acq On : 21 Aug 2025 18:28
Operator : SY/MD
Sample : Q2887-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

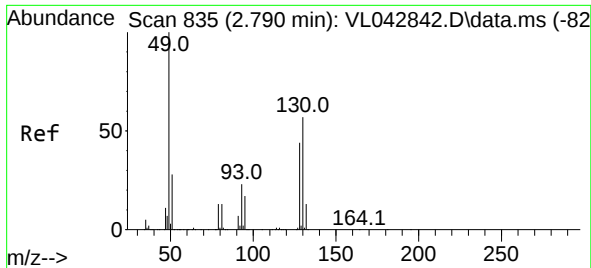
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Aug 22 01:26:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

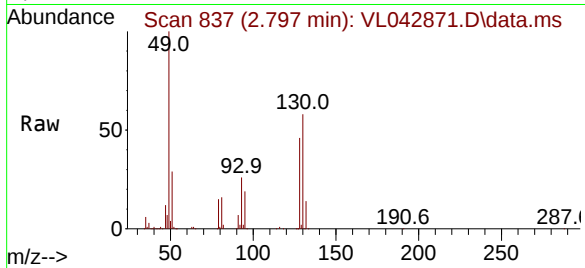
Reviewed By : Mahesh Dadoda 08/25/2025
Supervised By : Semsettin Yesilyurt 08/25/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

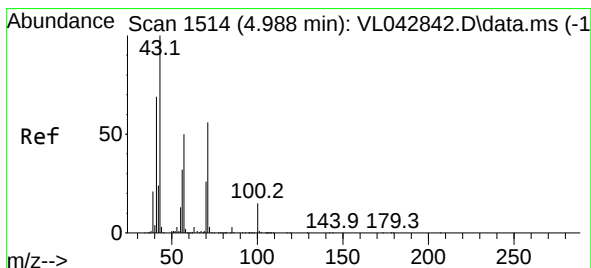
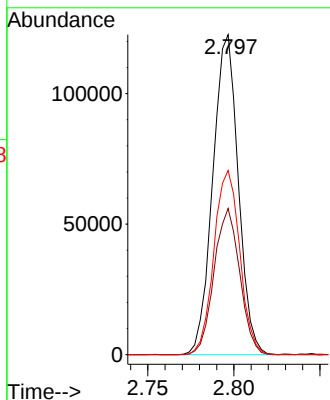
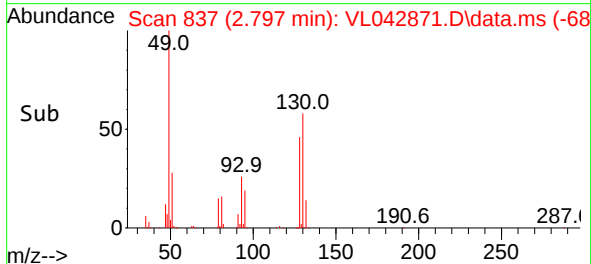
Instrument :
MSVOA_L
ClientSampleId :
SV1



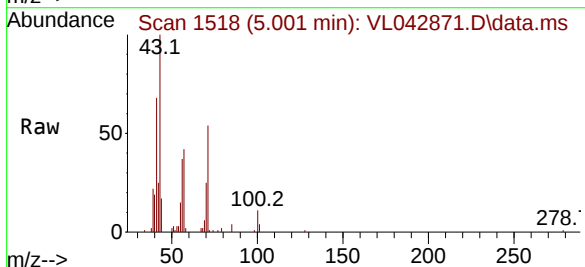
Tgt Ion: 49 Resp: 126154
Ion Ratio Lower Upper
49 100
128 46.1 23.7 71.1
130 58.5 30.6 91.6

Manual Integrations
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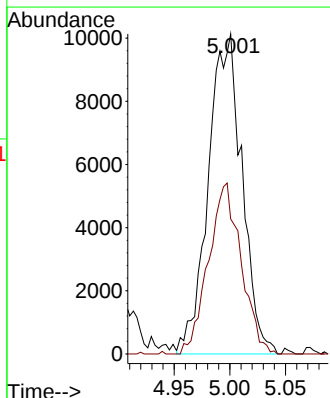
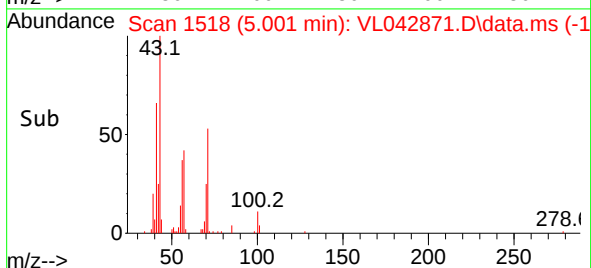
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

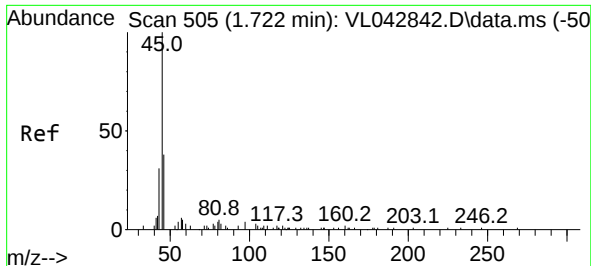


#10
Heptane
Concen: 0.902 ppbv m
RT: 5.001 min Scan# 1518
Delta R.T. 0.013 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28



Tgt Ion: 43 Resp: 21321
Ion Ratio Lower Upper
43 100
57 51.8 41.4 62.0





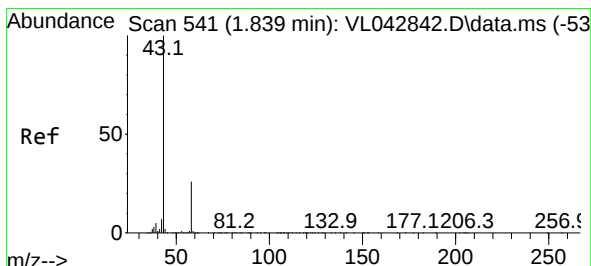
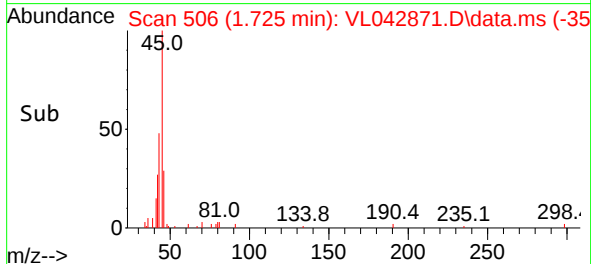
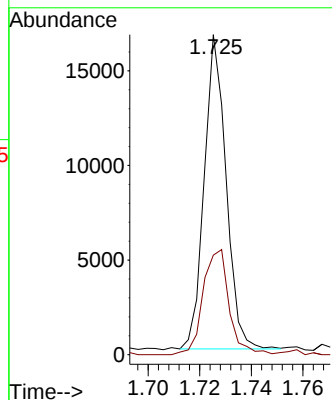
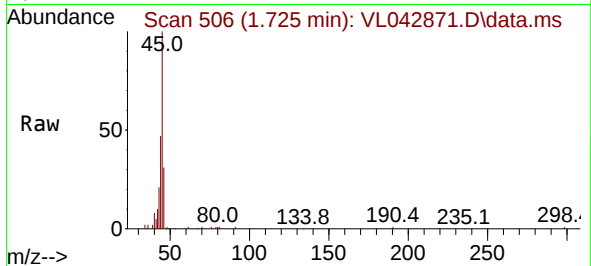
#13
Ethanol
Concen: 12.114 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 9770
Ion Ratio Lower Upper
45 100
46 41.0 17.5 69.9

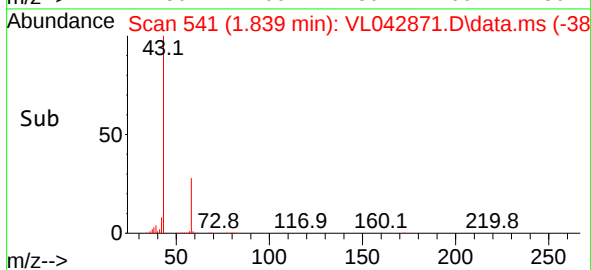
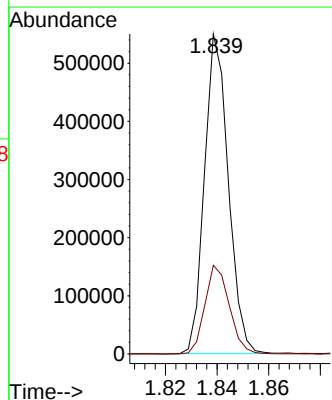
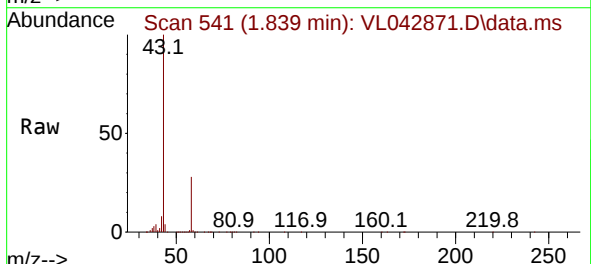
Manual Integrations
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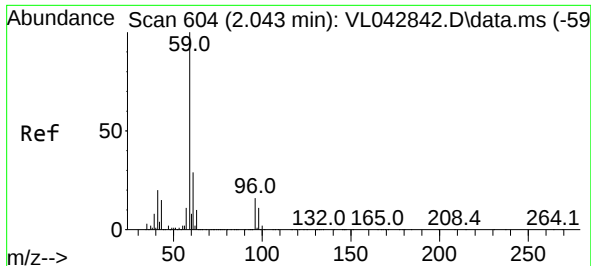
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#15
Acetone
Concen: 21.147 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Tgt Ion: 43 Resp: 352904
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.182 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 59 Resp: 3609

Ion Ratio Lower Upper

59 100

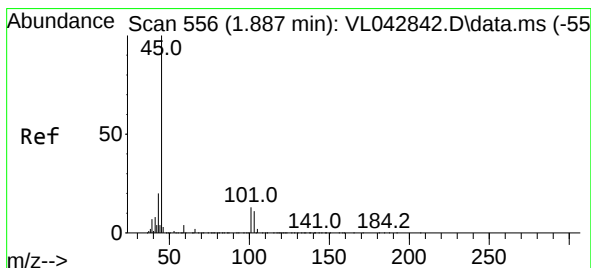
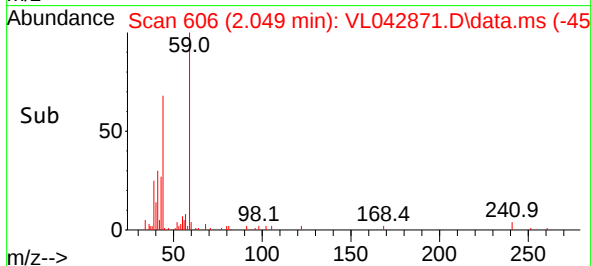
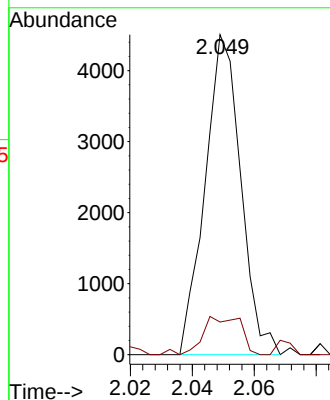
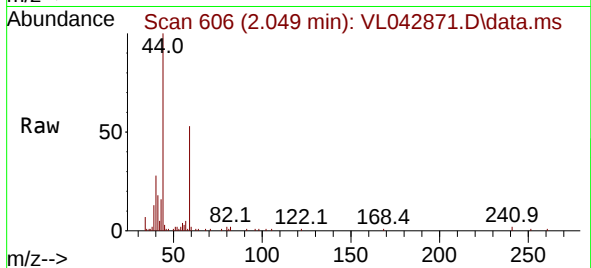
57 16.8 9.0 13.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#19

Isopropyl Alcohol

Concen: 0.558 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.003 min

Lab File: VL042871.D

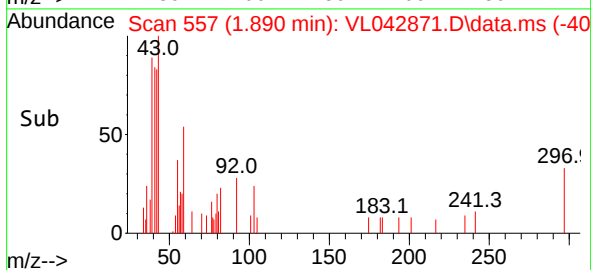
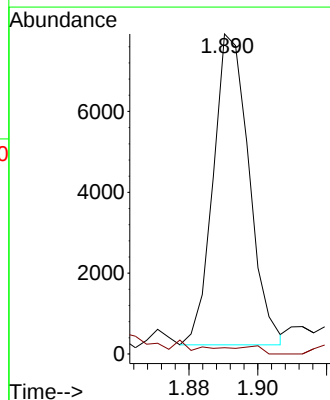
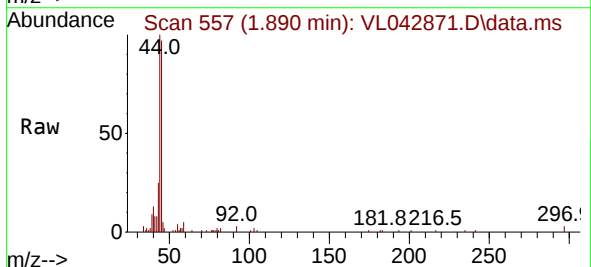
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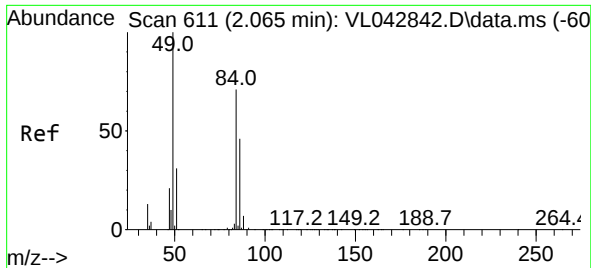
Tgt Ion: 45 Resp: 5560

Ion Ratio Lower Upper

45 100

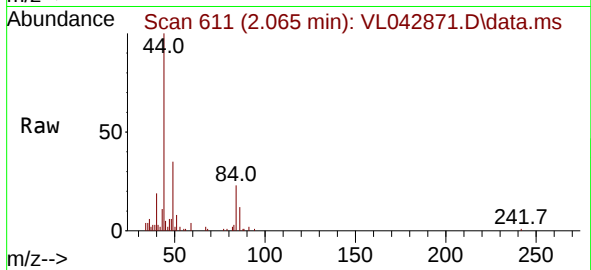
58 1806.6 32.7 49.1#





#20
Methylene Chloride
Concen: 0.219 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

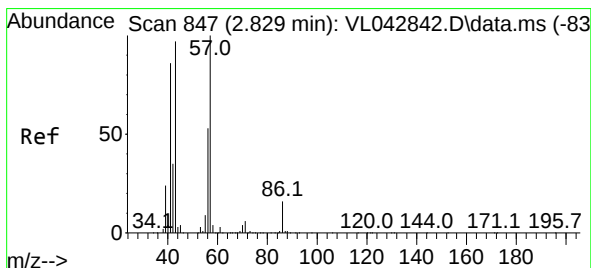
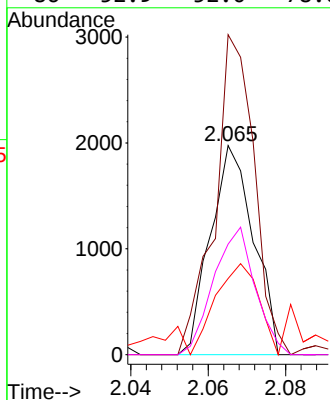
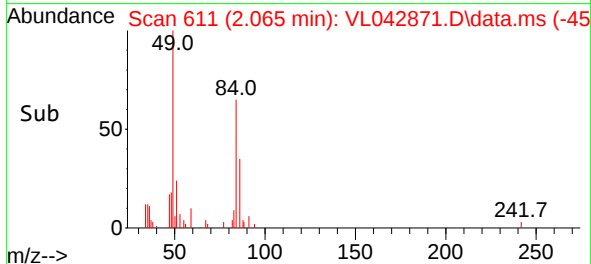
Instrument :
MSVOA_L
ClientSampleId :
SV1



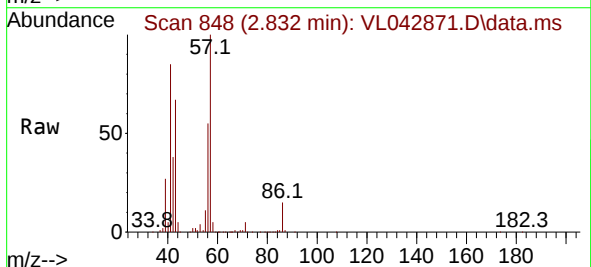
Tgt Ion: 84 Resp: 1528
Ion Ratio Lower Upper
84 100
49 153.0 112.3 168.5
51 36.4 36.0 54.0
86 52.9 52.0 78.0

Manual Integrations
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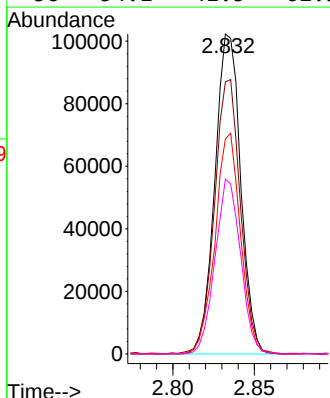
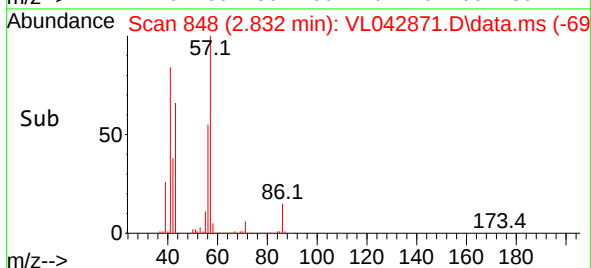
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

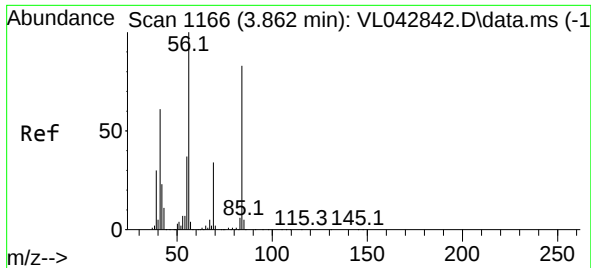


#26
Hexane
Concen: 6.044 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28



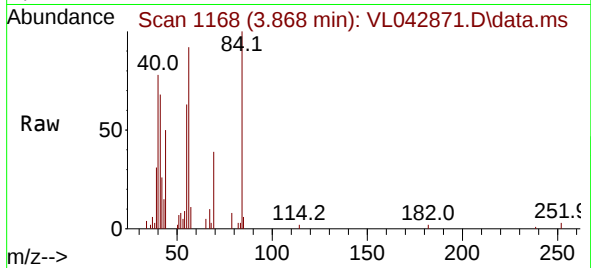
Tgt Ion: 57 Resp: 112674
Ion Ratio Lower Upper
57 100
41 86.5 68.6 103.0
43 68.7 168.5 252.7#
56 54.1 41.5 62.3





#30
Cyclohexane
Concen: 0.300 ppbv m
RT: 3.868 min Scan# 1166
Delta R.T. 0.006 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

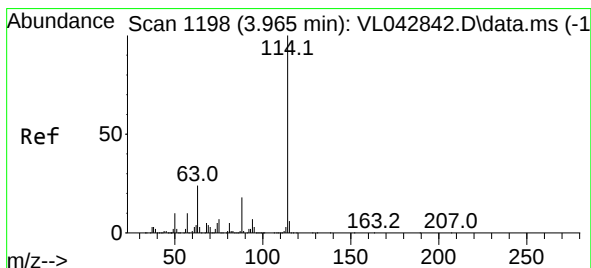
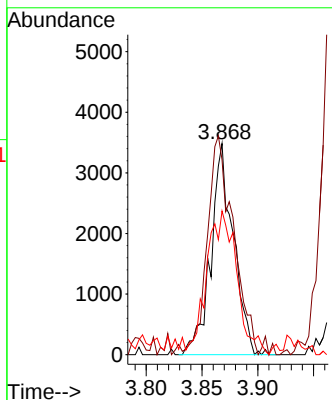
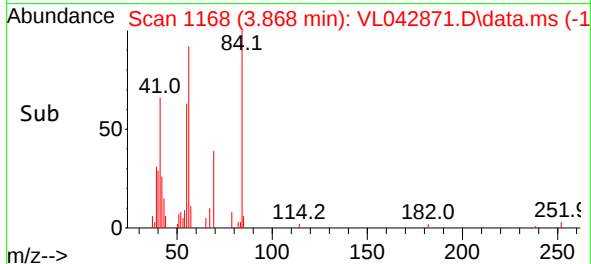
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 4899
Ion Ratio Lower Upper
84 100
56 124.9 98.8 148.2
41 102.4 61.3 91.9

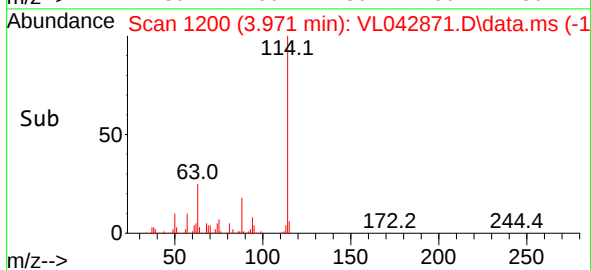
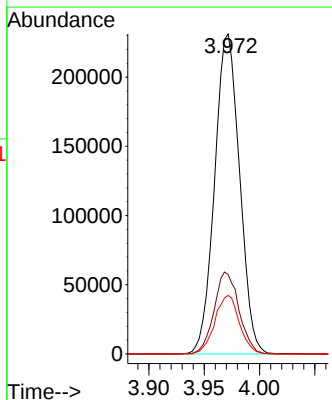
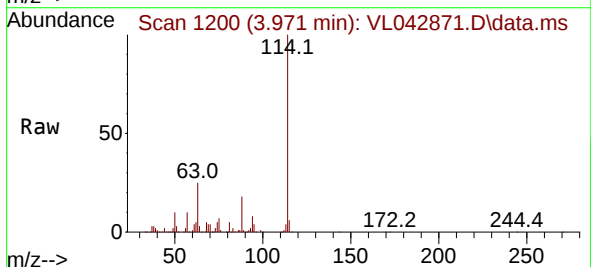
Manual Integrations
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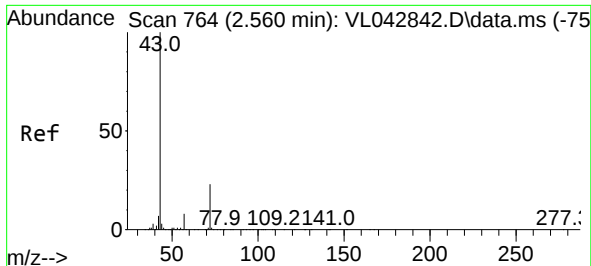
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. 0.006 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Tgt Ion:114 Resp: 363018
Ion Ratio Lower Upper
114 100
63 25.5 19.7 29.5
88 18.0 14.4 21.6





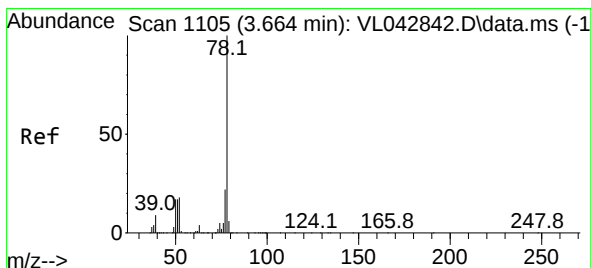
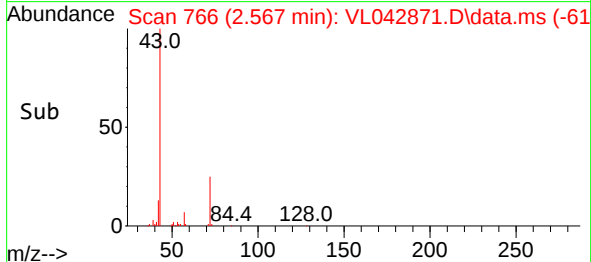
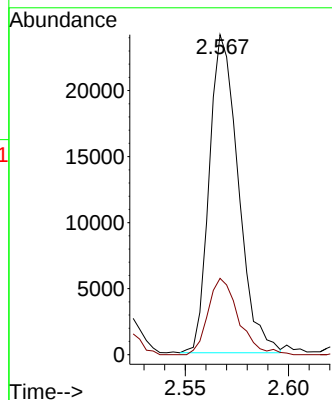
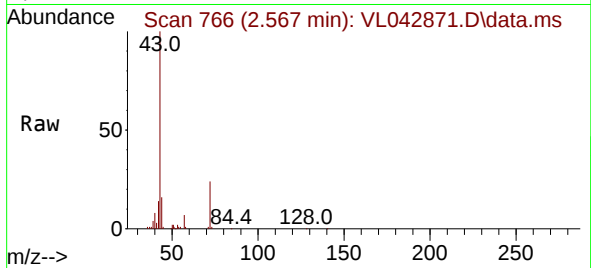
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2-Butanone
Concen: 0.960 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 2352
Ion Ratio Lower Upper
43 100
72 25.2 18.6 28.0

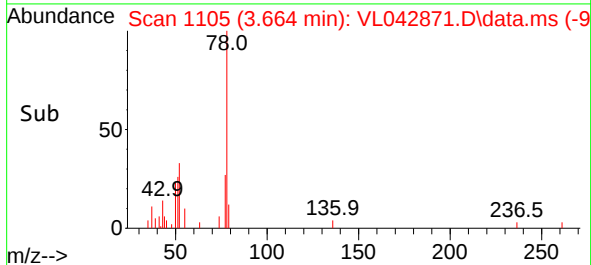
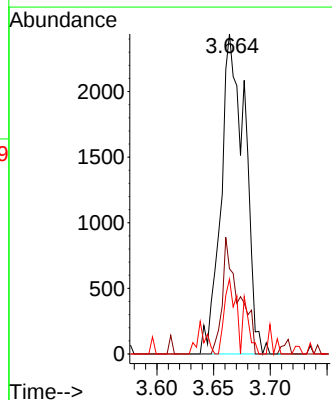
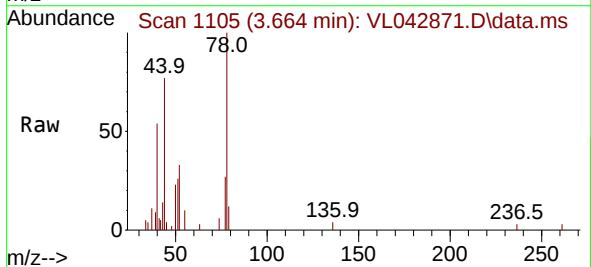
Manual Integrations
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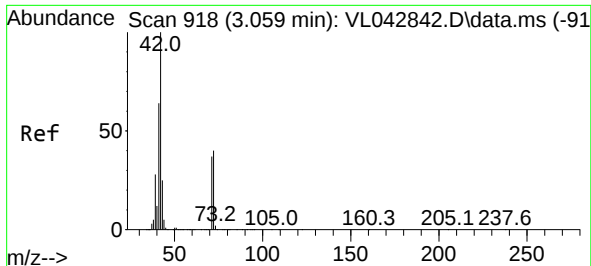
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#36
Benzene
Concen: 0.103 ppbv m
RT: 3.664 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Tgt Ion: 78 Resp: 3596
Ion Ratio Lower Upper
78 100
77 26.6 17.7 26.5#
50 23.4 13.9 20.9#





#41

Tetrahydrofuran

Concen: 0.353 ppbv m

RT: 3.078 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

Instrument :

MSVOA_L

ClientSampleId :

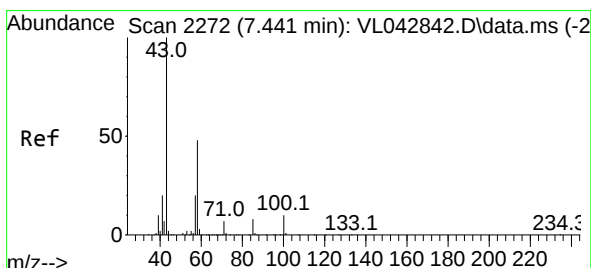
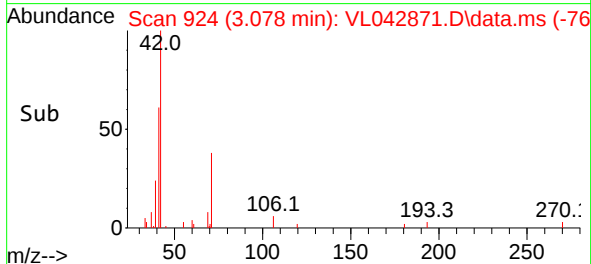
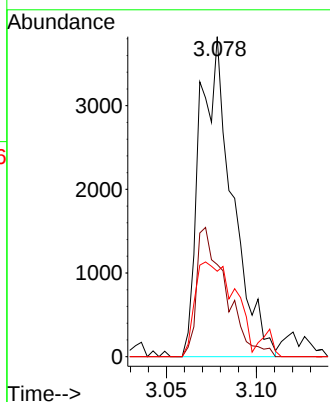
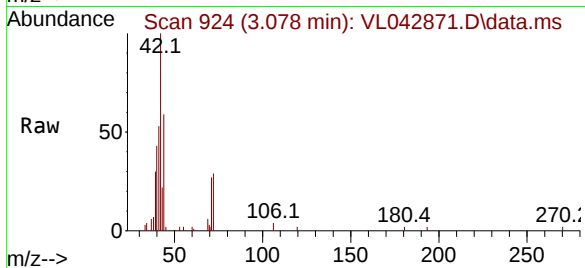
SV1

Tgt Ion:	42	Resp:	4818
Ion	Ratio	Lower	Upper
42	100		
72	36.2	32.6	48.8
71	39.2	30.0	45.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#51

2-Hexanone

Concen: 1.508 ppbv m

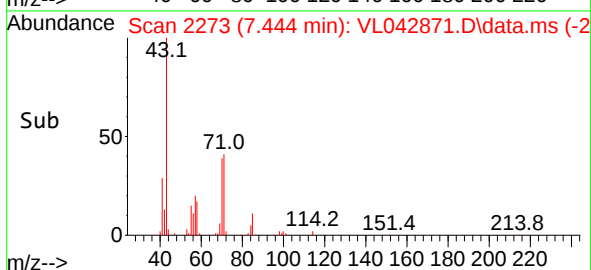
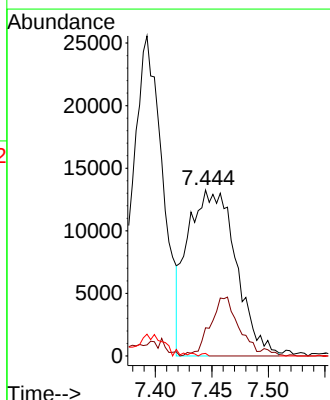
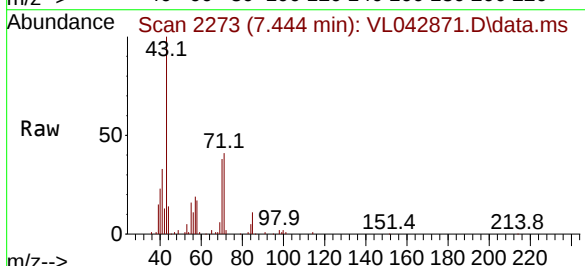
RT: 7.444 min Scan# 2273

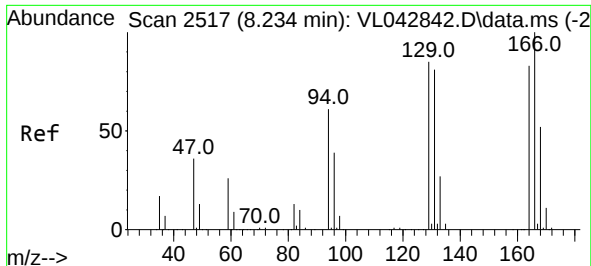
Delta R.T. 0.003 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

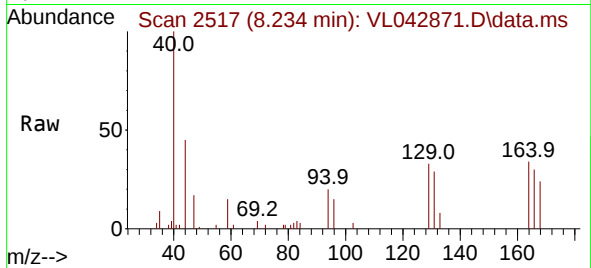
Tgt Ion:	43	Resp:	39311
Ion	Ratio	Lower	Upper
43	100		
58	21.8	41.0	61.6#
98	0.0	0.1	0.1#





#52
Tetrachloroethene
Concen: 0.122 ppbv m
RT: 8.234 min Scan# 2119
Delta R.T. -0.000 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

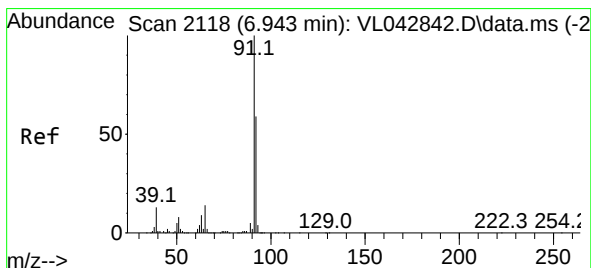
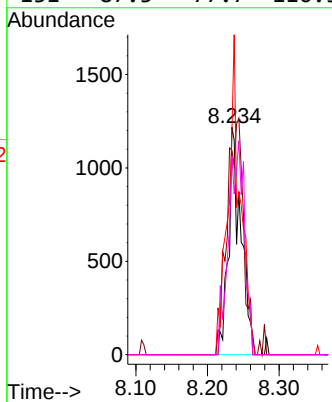
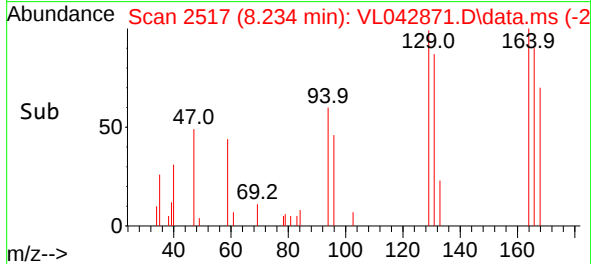
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 1530
Ion Ratio Lower Upper
164 100
166 89.9 96.5 144.7
129 98.5 81.8 122.6
131 87.3 77.7 116.5

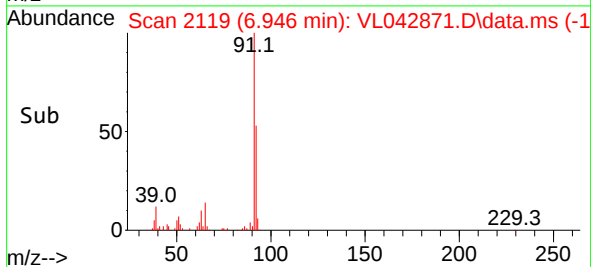
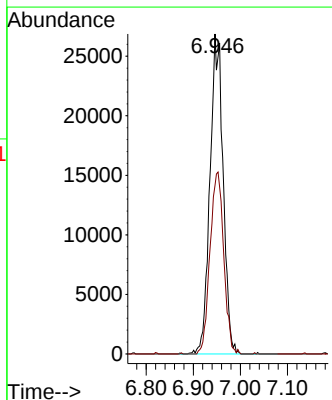
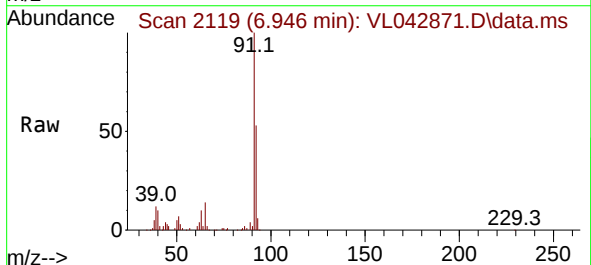
Manual Integrations
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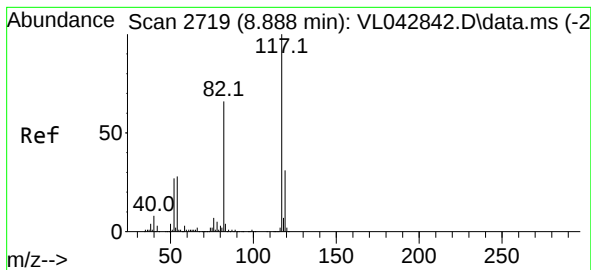
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#53
Toluene
Concen: 1.257 ppbv m
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

Tgt Ion: 91 Resp: 51930
Ion Ratio Lower Upper
91 100
92 59.3 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.894 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

Instrument :

MSVOA_L

ClientSampleId :

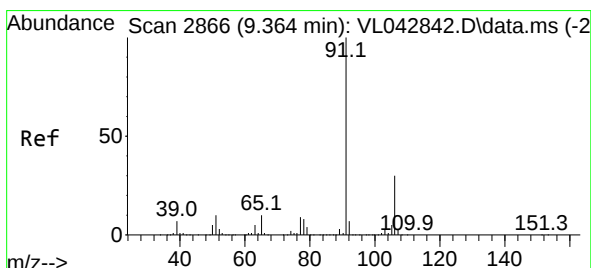
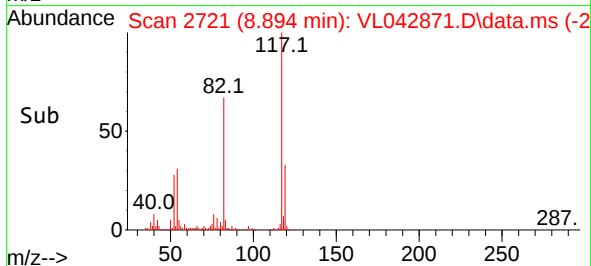
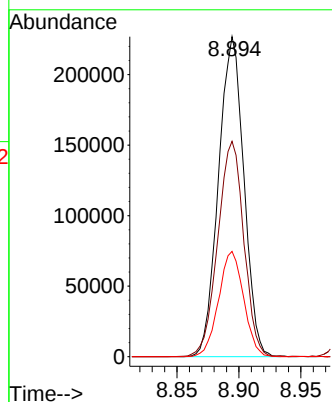
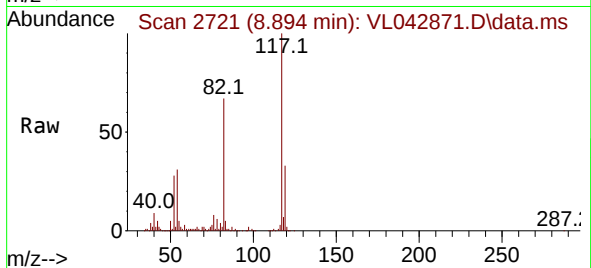
SV1

Tgt Ion:	117	Resp:	32398
Ion	Ratio	Lower	Upper
117	100		
82	69.0	54.6	81.8
119	32.5	25.9	38.9

Manual Integrations

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Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#58

Ethyl Benzene

Concen: 0.357 ppbv

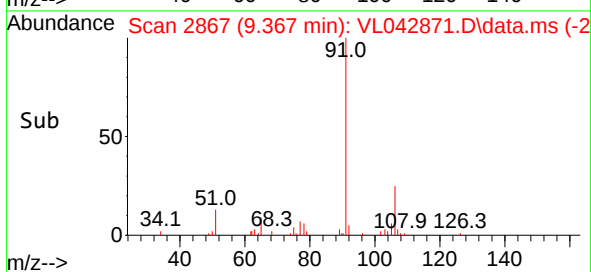
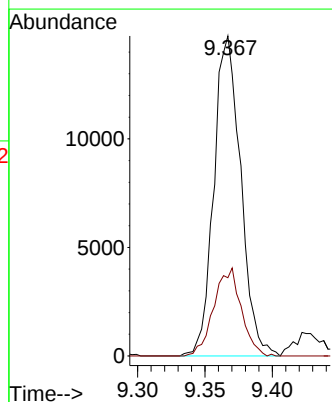
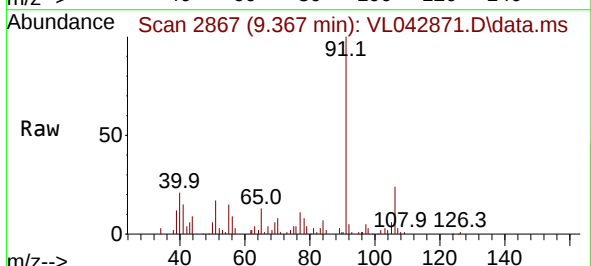
RT: 9.367 min Scan# 2867

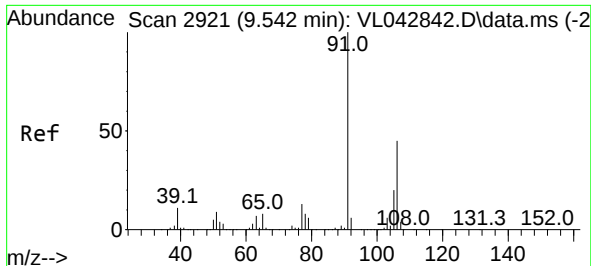
Delta R.T. 0.003 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

Tgt Ion:	91	Resp:	20437
Ion	Ratio	Lower	Upper
91	100		
106	24.4	23.9	35.9





#59

m/p-Xylene

Concen: 0.912 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042871.D

Acq: 21 Aug 2025 18:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 4086

Ion Ratio Lower Upper

91 100

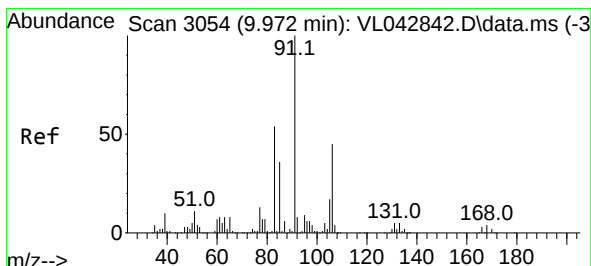
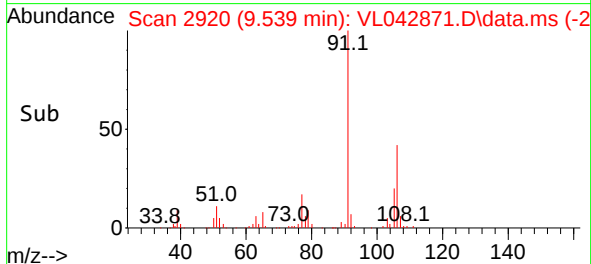
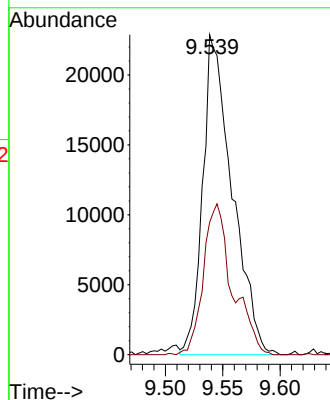
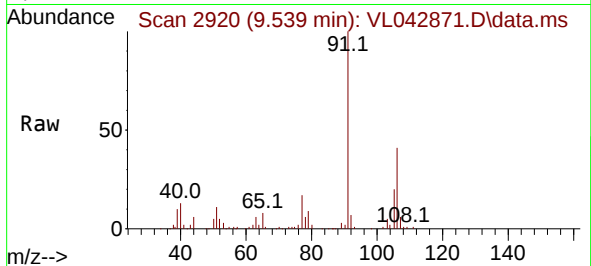
106 46.6 0.0 0.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#60

o-Xylene

Concen: 0.376 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042871.D

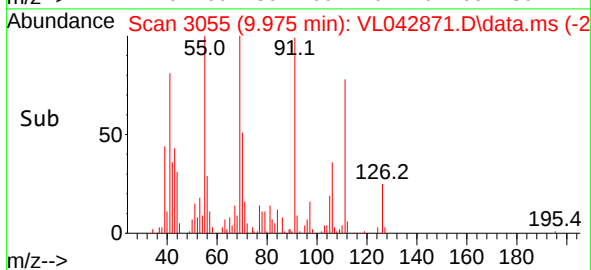
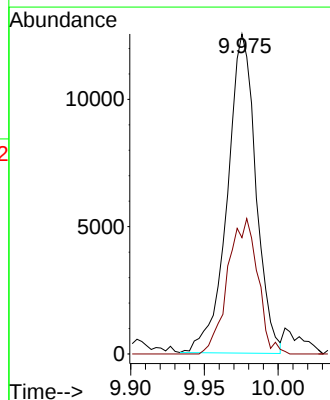
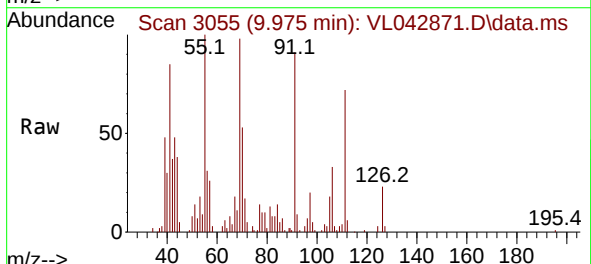
Acq: 21 Aug 2025 18:28

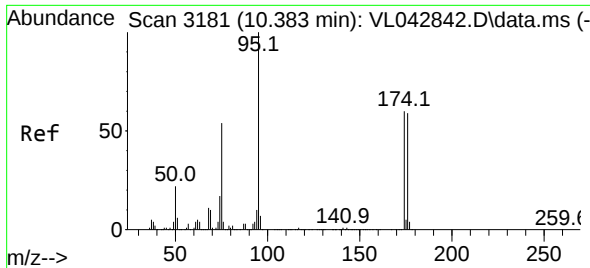
Tgt Ion: 91 Resp: 16940

Ion Ratio Lower Upper

91 100

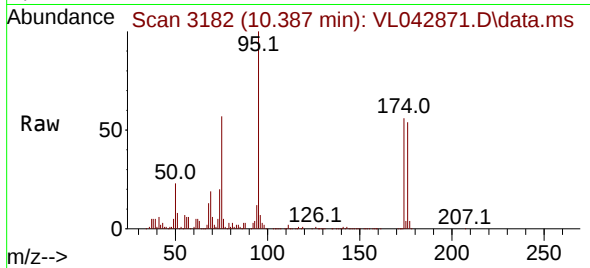
106 44.4 21.8 65.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.342 ppbv
RT: 10.387 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28

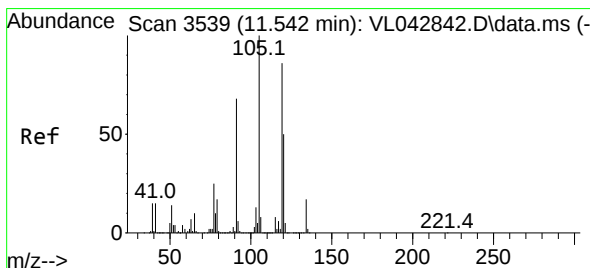
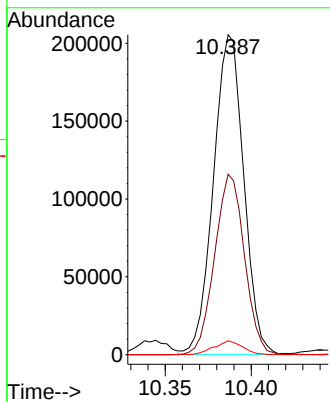
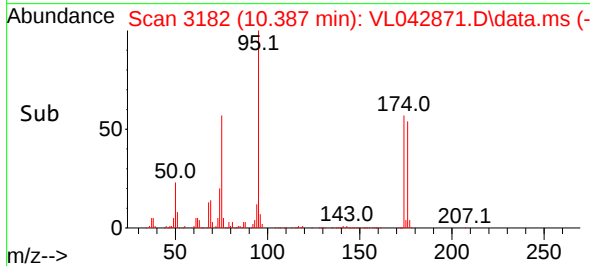
Instrument :
MSVOA_L
ClientSampleId :
SV1



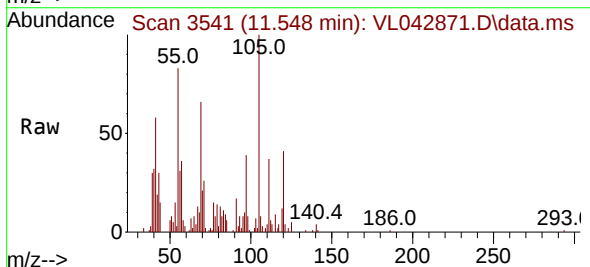
Tgt Ion: 95 Resp: 25128
Ion Ratio Lower Upper
95 100
174 55.4 48.4 72.6
175 4.1 3.8 5.8

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.192 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. 0.006 min
Lab File: VL042871.D
Acq: 21 Aug 2025 18:28



Tgt Ion:105 Resp: 9791
Ion Ratio Lower Upper
105 100
120 41.4 39.8 59.6
91 11.2 54.2 81.4#
77 10.0 19.8 29.6#

