

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
 Data File : VL042884.D
 Acq On : 26 Aug 2025 14:29
 Operator : SY/MD
 Sample : Q2943-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025

Quant Time: Aug 27 01:11:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 27 01:11:41 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	2.790	49	127308	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	346383	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	304552	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 239031 10.465 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	2384	0.128	ppbv	98
9) Propene	1.489	41	4536	0.509	ppbv #	17
10) Heptane	4.985	43	7351m	0.308	ppbv	
13) Ethanol	1.722	45	138035	169.498	ppbv	89
15) Acetone	1.839	43	305345m	18.132	ppbv	
17) tert-Butyl alcohol	2.046	59	9285	0.465	ppbv #	71
19) Isopropyl Alcohol	1.887	45	135740	13.495	ppbv #	73
20) Methylene Chloride	2.062	84	2260	0.320	ppbv #	94
26) Hexane	2.829	57	27976	1.487	ppbv #	44
29) Chloroform	2.852	83	9020	0.336	ppbv	98
30) Cyclohexane	3.868	84	1642m	0.100	ppbv	
32) 1,1,1-Trichloroethane	3.376	97	2723m	0.096	ppbv	
34) 2-Butanone	2.564	43	9363	0.400	ppbv	99
36) Benzene	3.661	78	6760	0.204	ppbv #	87
52) Tetrachloroethene	8.231	164	2993	0.249	ppbv #	66
53) Toluene	6.943	91	49705	1.260	ppbv	98
58) Ethyl Benzene	9.361	91	149110	2.774	ppbv	97
59) m/p-Xylene	9.539	91	40622	0.964	ppbv #	100
60) o-Xylene	9.969	91	20845	0.492	ppbv	94
61) Styrene	9.875	104	554521	27.930	ppbv	98
62) Isopropylbenzene	10.545	105	10042	0.162	ppbv	99
64) n-propylbenzene	10.992	120	2884	0.183	ppbv	71
74) 1,2,4-Trimethylbenzene	11.539	105	16244	0.339	ppbv #	60

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

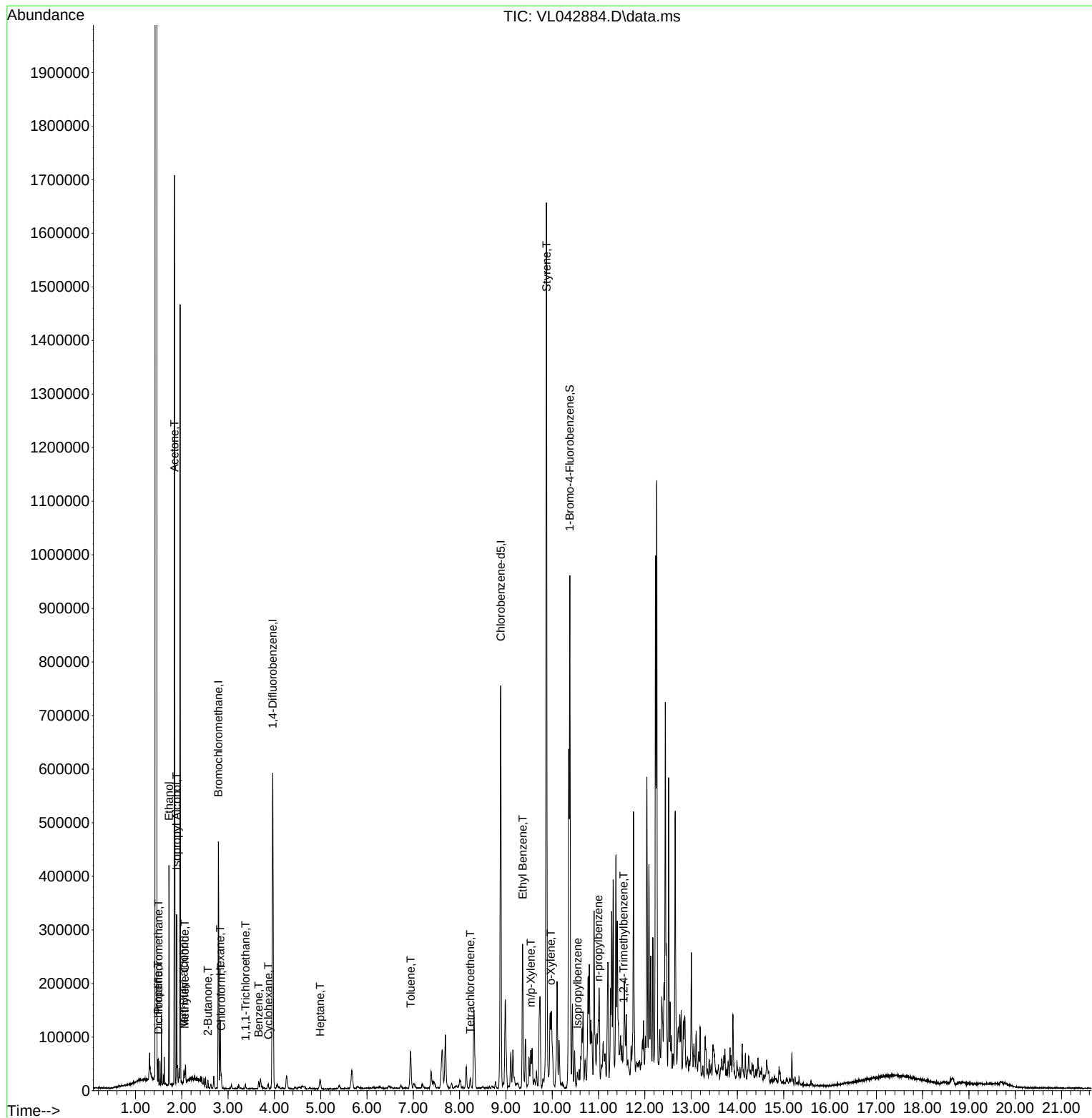
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
Data File : VL042884.D
Acq On : 26 Aug 2025 14:29
Operator : SY/MD
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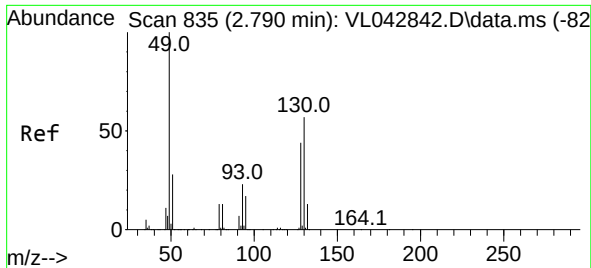
Instrument :
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Quant Time: Aug 27 01:11:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





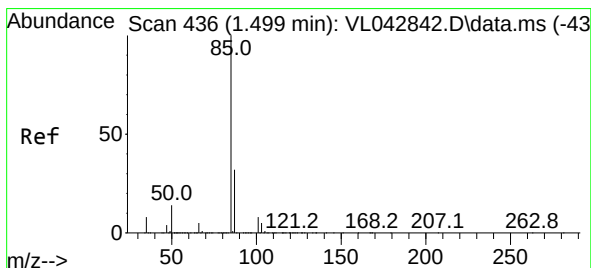
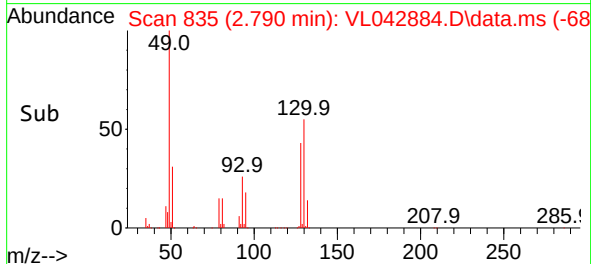
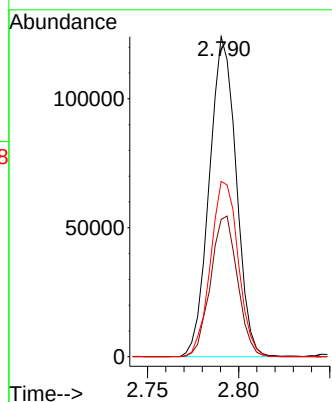
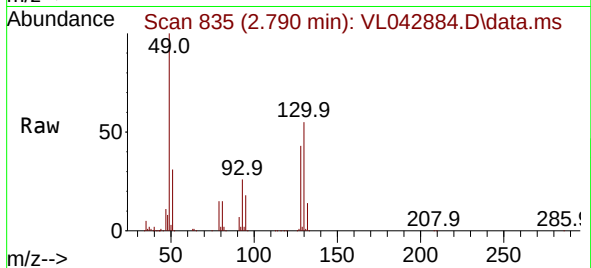
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 127308
Ion Ratio Lower Upper
49 100
128 44.0 23.7 71.1
130 56.4 30.6 91.6

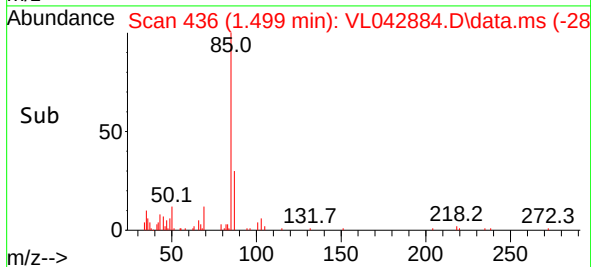
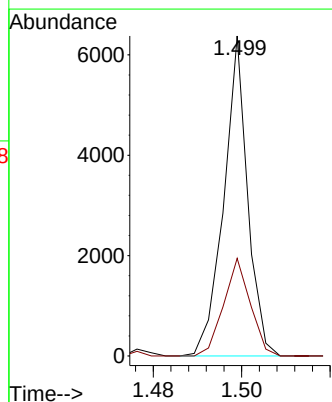
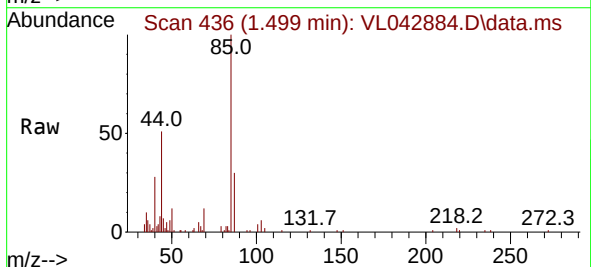
Manual Integrations
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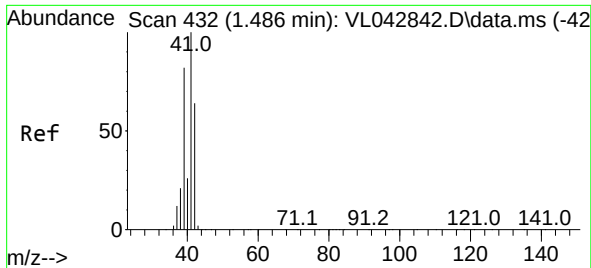
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 85 Resp: 2384
Ion Ratio Lower Upper
85 100
87 30.5 25.3 37.9





#9

Propene

Concen: 0.509 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

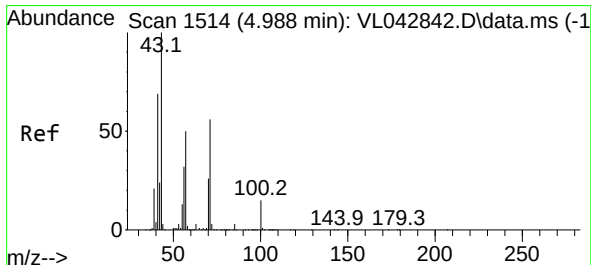
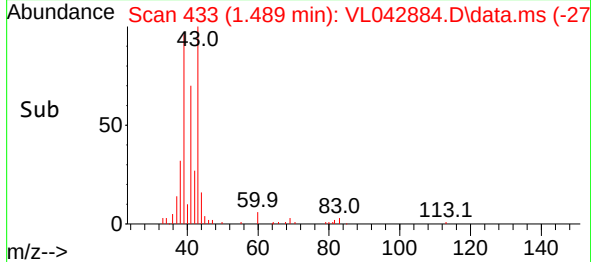
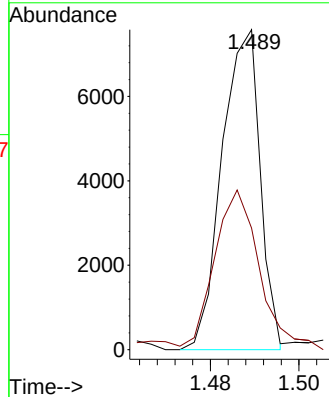
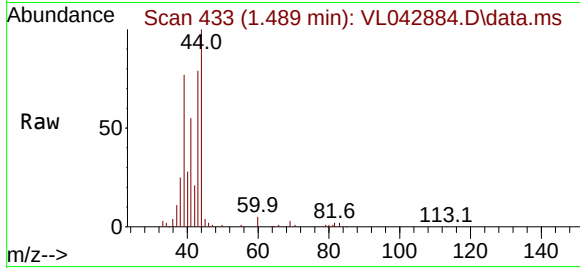
SV1

Tgt Ion: 41 Resp: 4530
 Ion Ratio Lower Upper
 41 100
 42 0.0 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/27/2025
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#10

Heptane

Concen: 0.308 ppbv m

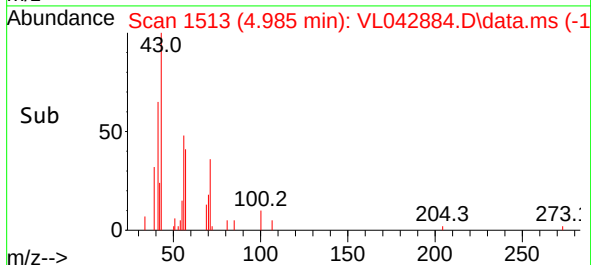
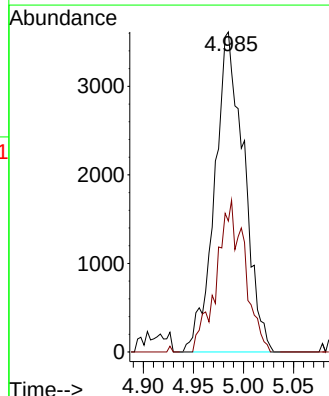
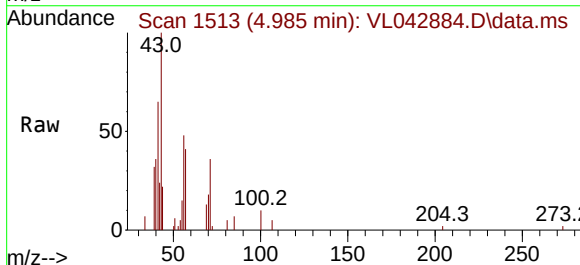
RT: 4.985 min Scan# 1513

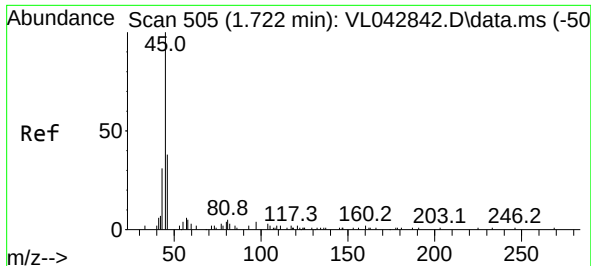
Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

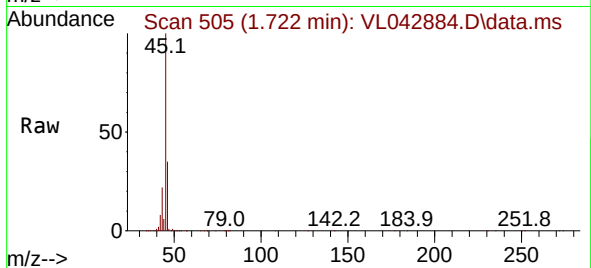
Tgt Ion: 43 Resp: 7351
 Ion Ratio Lower Upper
 43 100
 57 46.1 41.4 62.0





#13
Ethanol
Concen: 169.498 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

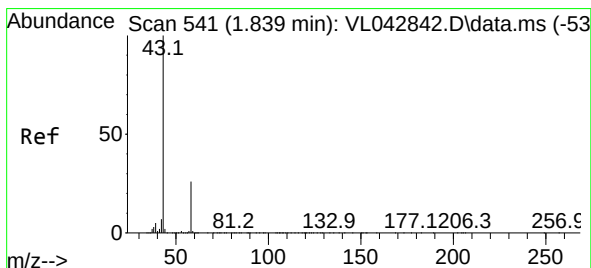
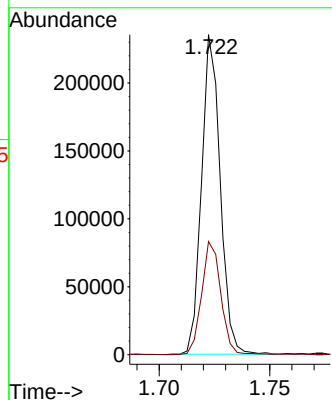
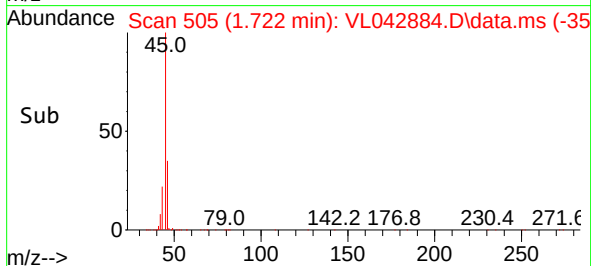
Instrument :
MSVOA_L
ClientSampleId :
SV1



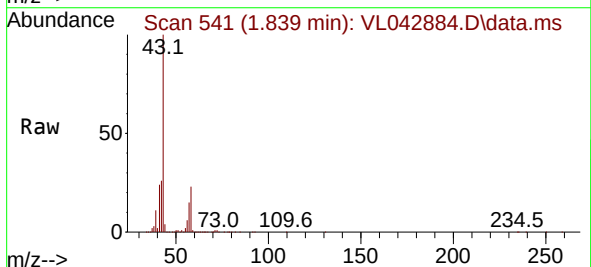
Tgt Ion: 45 Resp: 138035
Ion Ratio Lower Upper
45 100
46 36.9 17.5 69.9

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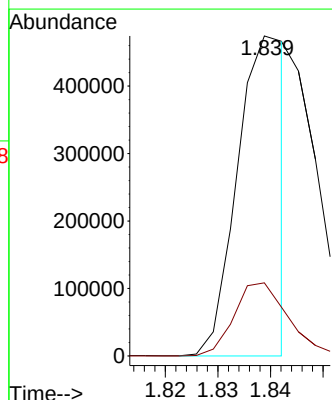
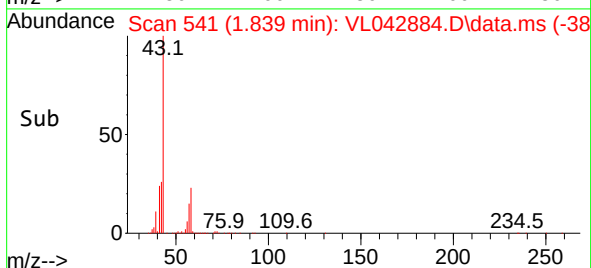
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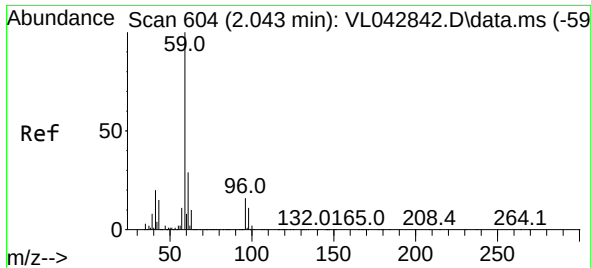


#15
Acetone
Concen: 18.132 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29



Tgt Ion: 43 Resp: 305345
Ion Ratio Lower Upper
43 100
58 25.7 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.465 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 59 Resp: 928

Ion Ratio Lower Upper

59 100

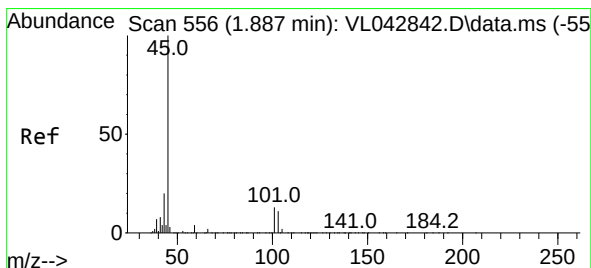
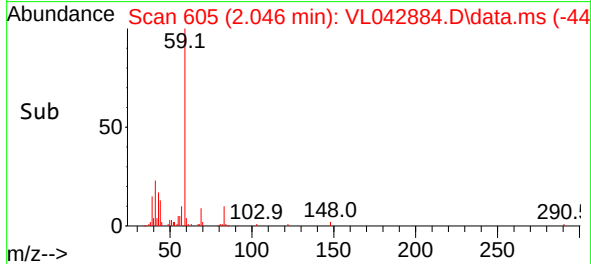
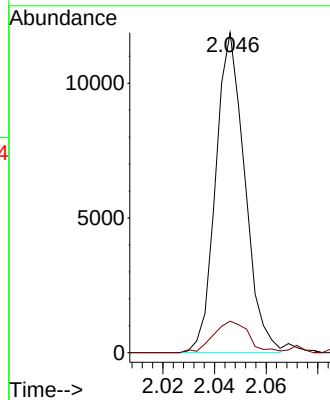
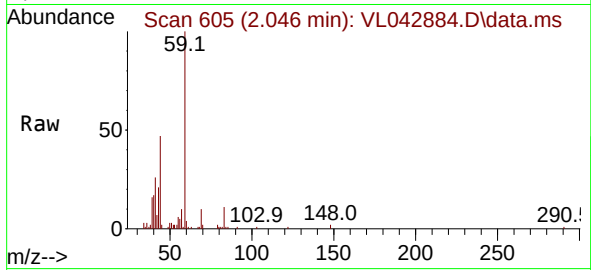
57 0.0 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#19

Isopropyl Alcohol

Concen: 13.495 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.000 min

Lab File: VL042884.D

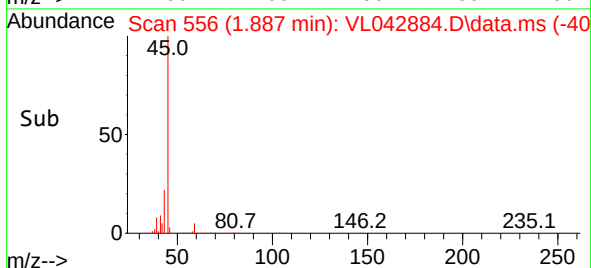
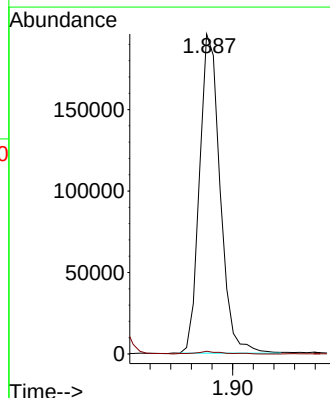
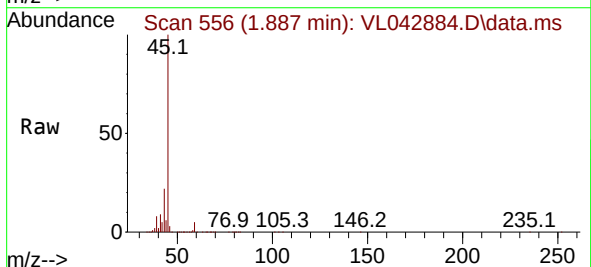
Acq: 26 Aug 2025 14:29

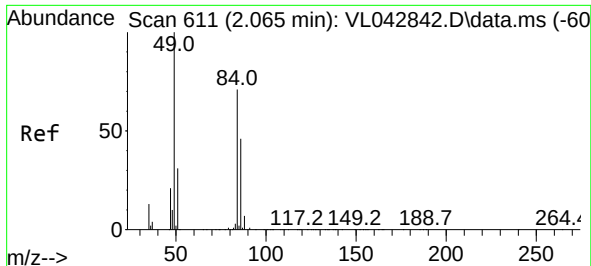
Tgt Ion: 45 Resp: 135740

Ion Ratio Lower Upper

45 100

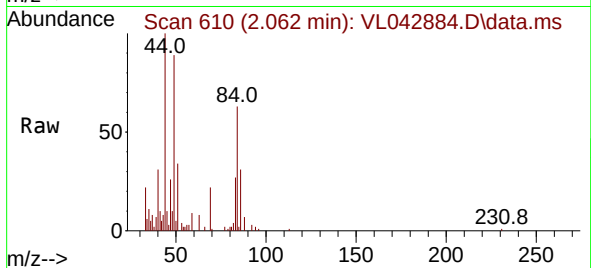
58 57.8 32.7 49.1





#20
Methylene Chloride
Concen: 0.320 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

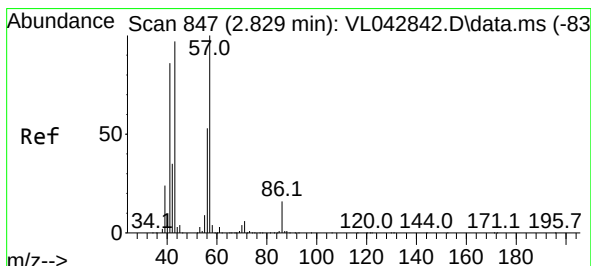
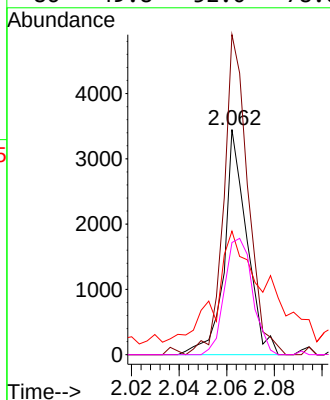
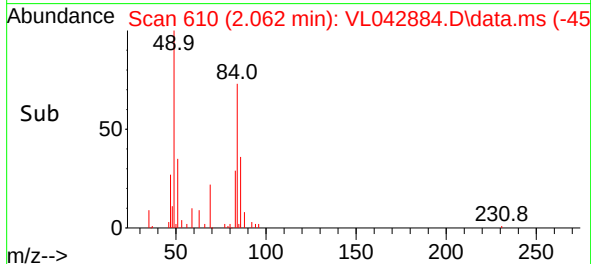
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 2260
Ion Ratio Lower Upper
84 100
49 138.3 112.3 168.5
51 45.8 36.0 54.0
86 49.8 52.0 78.0#

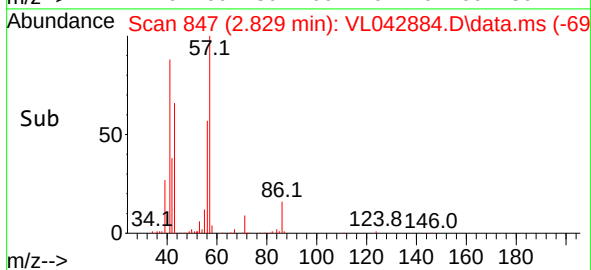
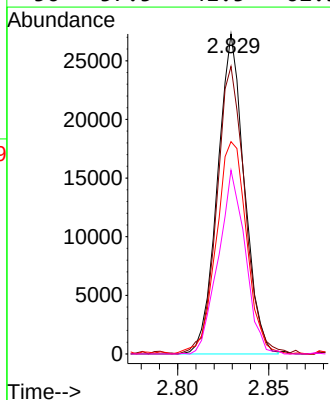
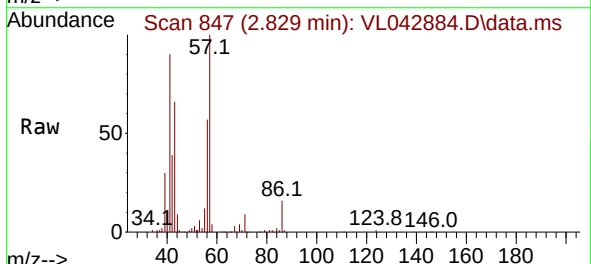
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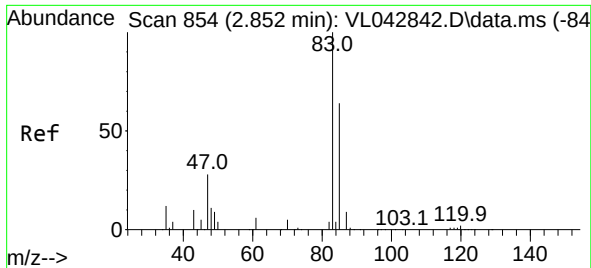
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#26
Hexane
Concen: 1.487 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 57 Resp: 27976
Ion Ratio Lower Upper
57 100
41 95.3 68.6 103.0
43 75.5 168.5 252.7#
56 57.5 41.5 62.3





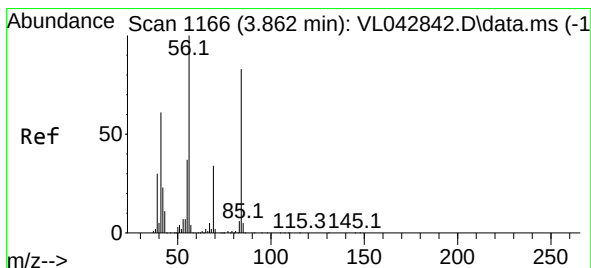
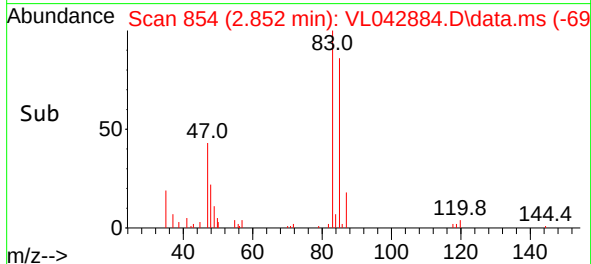
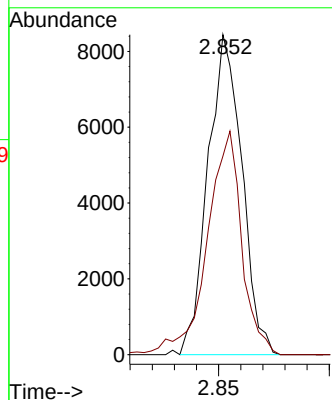
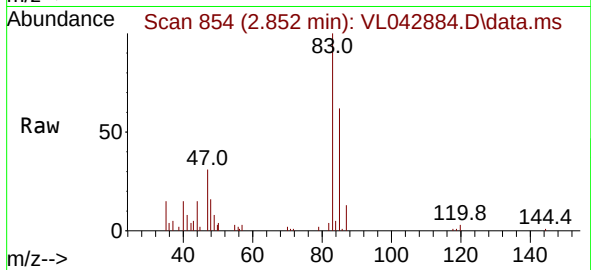
#29
Chloroform
Concen: 0.336 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 9020
Ion Ratio Lower Upper
83 100
85 62.1 51.1 76.7

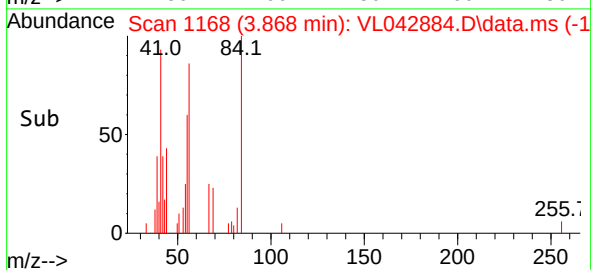
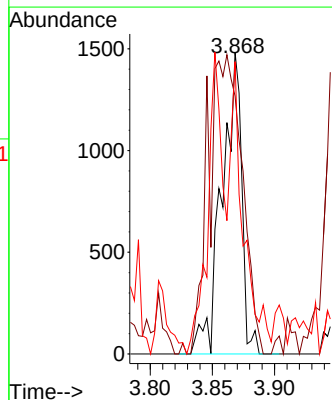
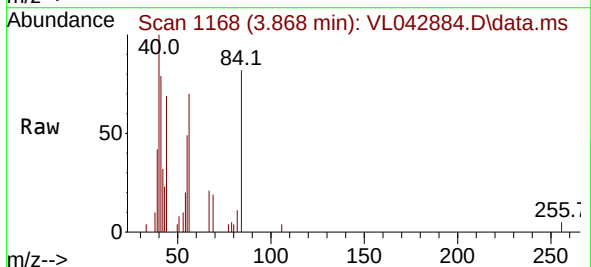
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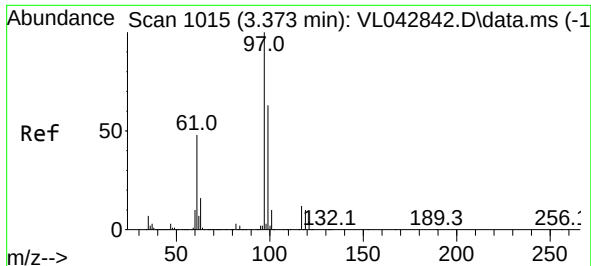
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#30
Cyclohexane
Concen: 0.100 ppbv m
RT: 3.868 min Scan# 1168
Delta R.T. 0.007 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

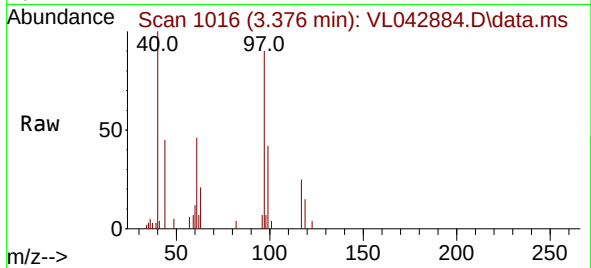
Tgt Ion: 84 Resp: 1642
Ion Ratio Lower Upper
84 100
56 169.5 98.8 148.2#
41 0.0 61.3 91.9#





#32
1,1,1-Trichloroethane
Concen: 0.096 ppbv m
RT: 3.376 min Scan# 1015
Delta R.T. 0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

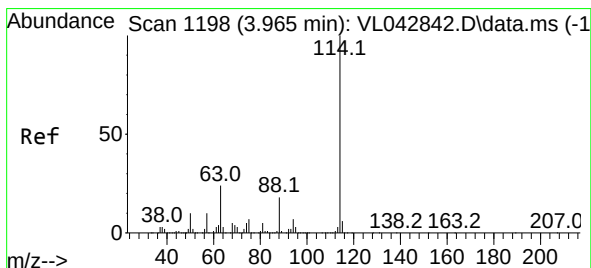
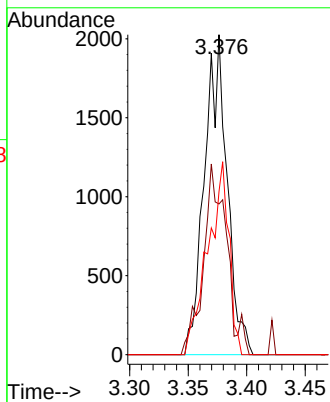
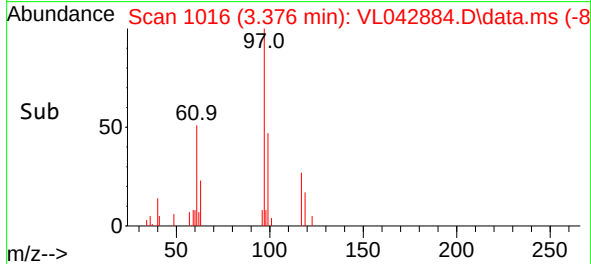
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 97 Resp: 272
Ion Ratio Lower Upper
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99 61.0 51.0 76.6
61 0.0 38.0 57.0

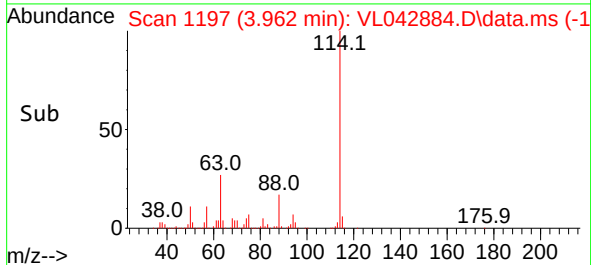
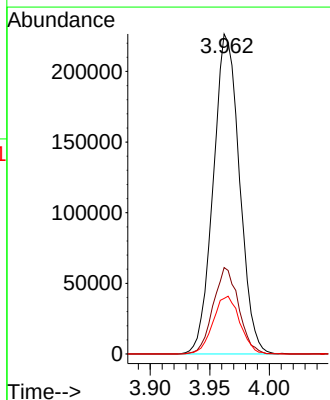
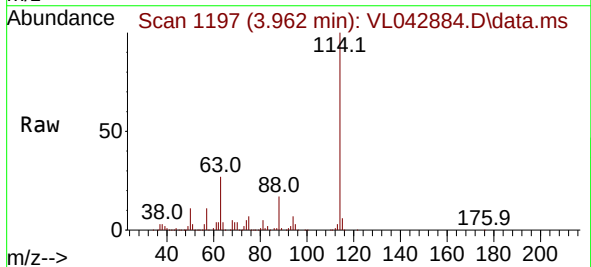
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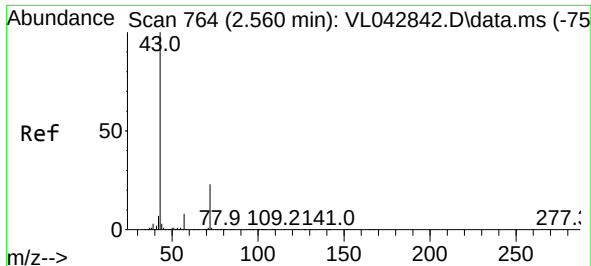
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

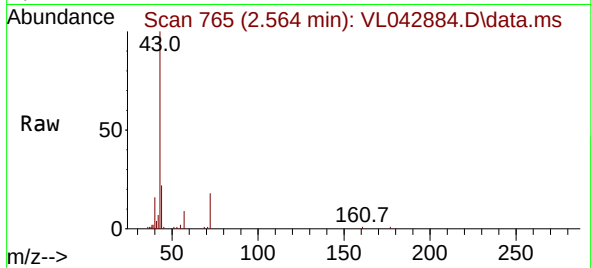
Tgt Ion:114 Resp: 346383
Ion Ratio Lower Upper
114 100
63 26.2 19.7 29.5
88 18.5 14.4 21.6





#34
2-Butanone
Concen: 0.400 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

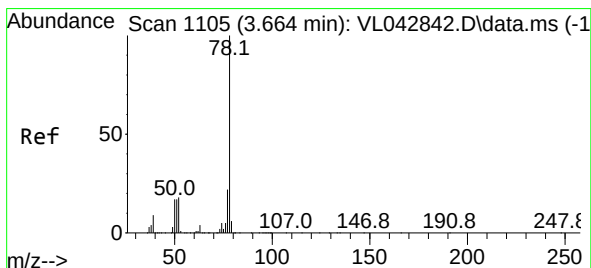
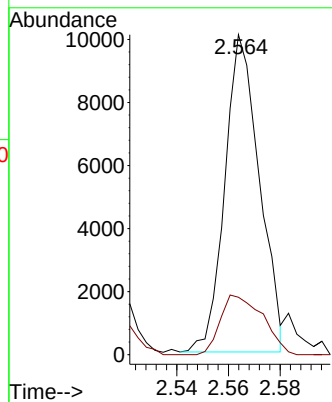
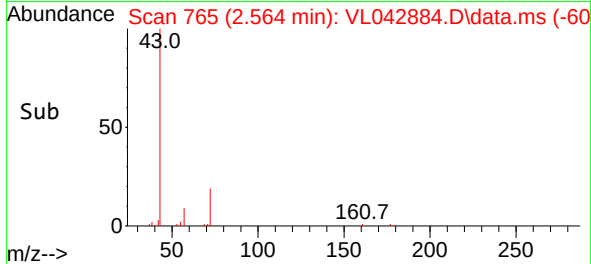
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 936
Ion Ratio Lower Upper
43 100
72 23.0 18.6 28.0

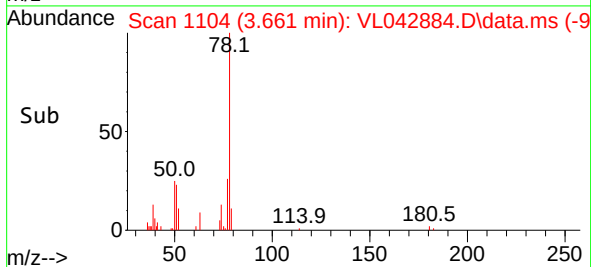
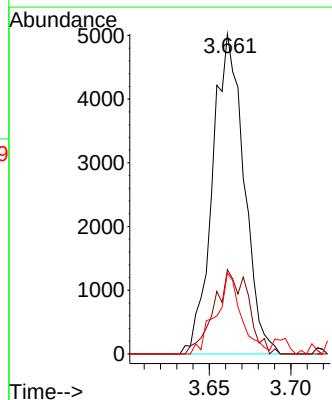
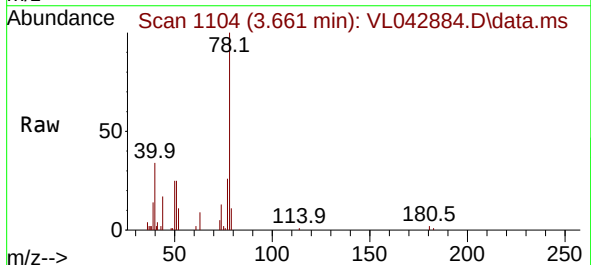
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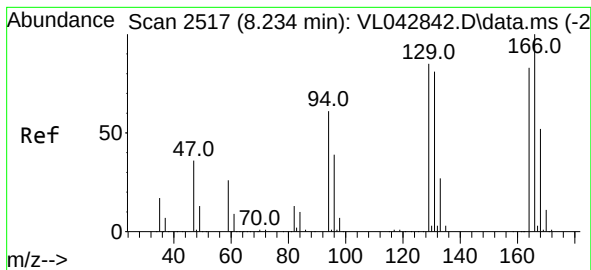
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#36
Benzene
Concen: 0.204 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 78 Resp: 6760
Ion Ratio Lower Upper
78 100
77 26.4 17.7 26.5
50 25.3 13.9 20.9#





#52

Tetrachloroethene

Concen: 0.249 ppbv

RT: 8.231 min Scan# 2116

Delta R.T. -0.003 min

Lab File: VL042884.D

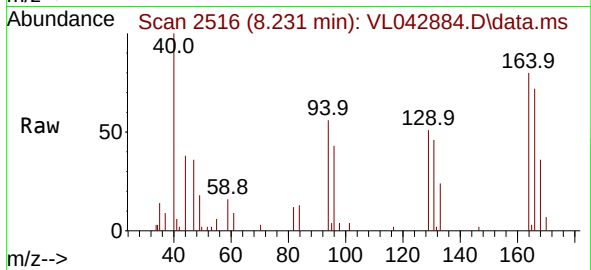
Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

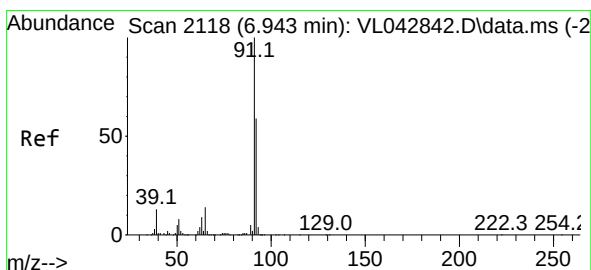
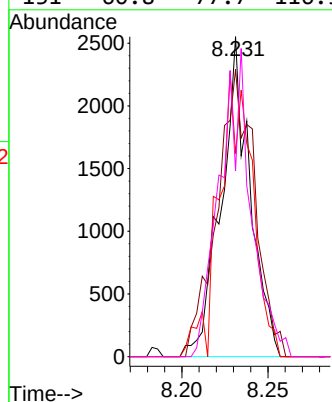
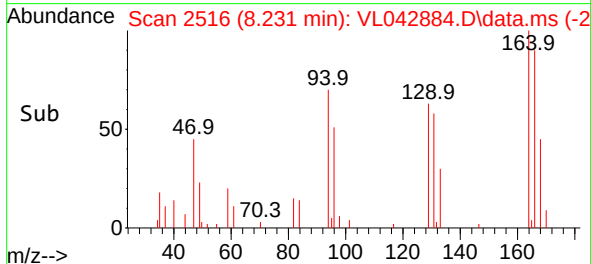


Tgt Ion:164	Resp:	299
Ion Ratio	Lower	Upper
164	100	
166	89.8	96.5 144.7
129	63.5	81.8 122.6
131	60.8	77.7 116.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#53

Toluene

Concen: 1.260 ppbv

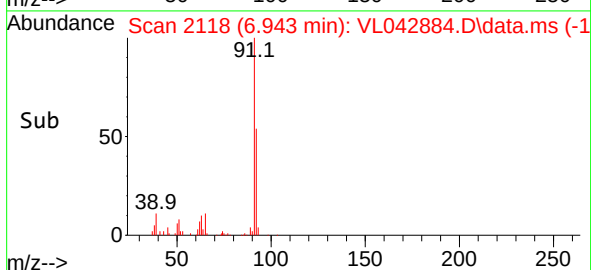
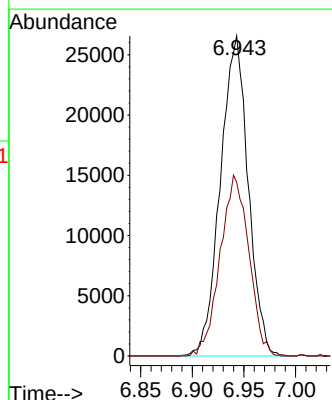
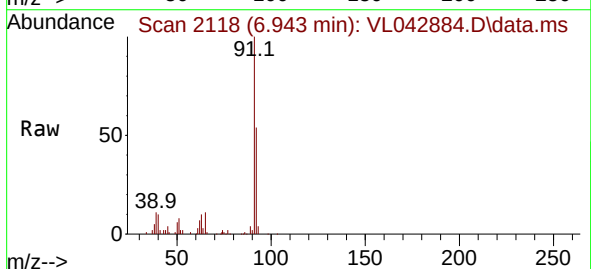
RT: 6.943 min Scan# 2118

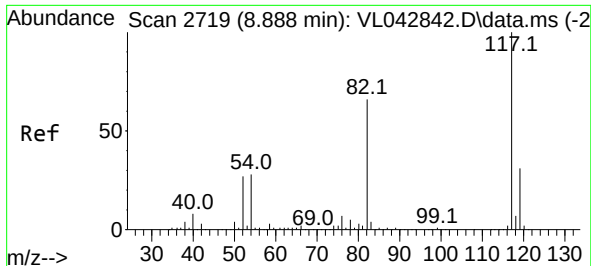
Delta R.T. 0.000 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

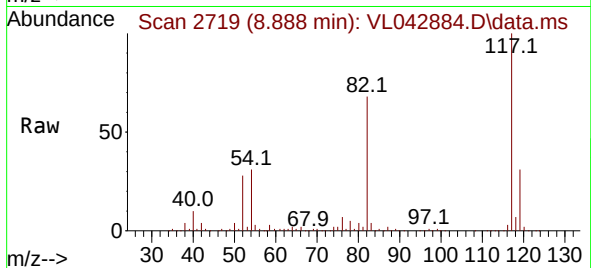
Tgt Ion: 91	Resp:	49705
Ion Ratio	Lower	Upper
91	100	
92	58.5	47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

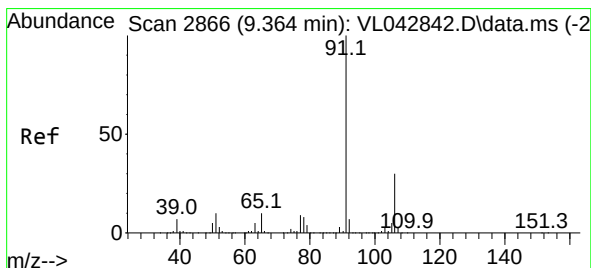
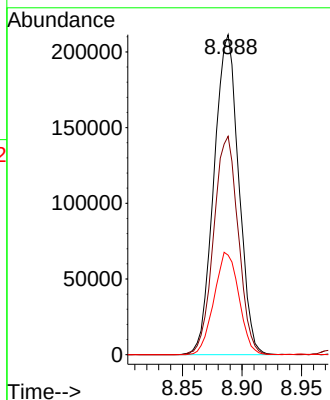
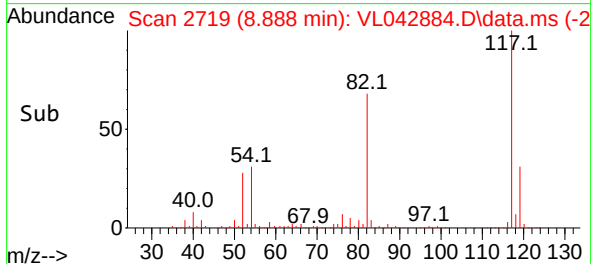
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 304552
Ion Ratio Lower Upper
117 100
82 68.1 54.6 81.8
119 32.2 25.9 38.9

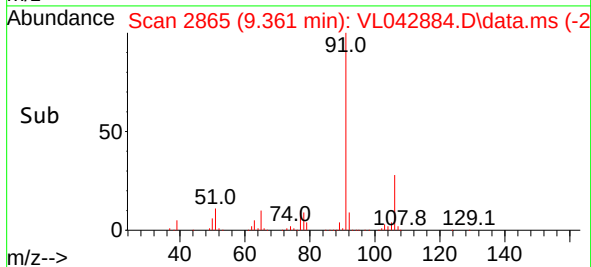
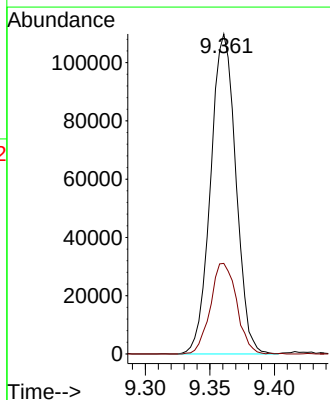
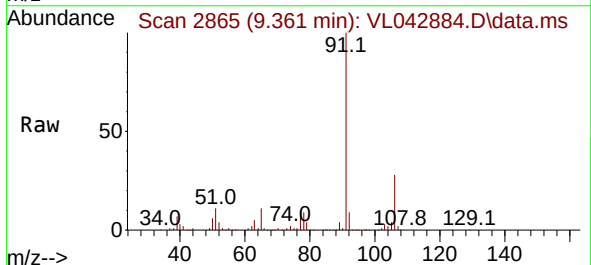
Manual Integrations
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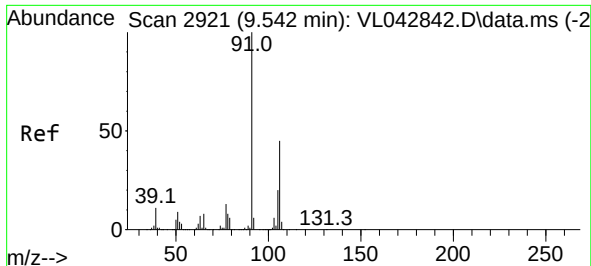
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#58
Ethyl Benzene
Concen: 2.774 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 91 Resp: 149110
Ion Ratio Lower Upper
91 100
106 28.3 23.9 35.9





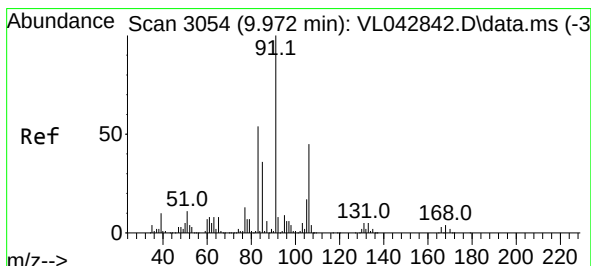
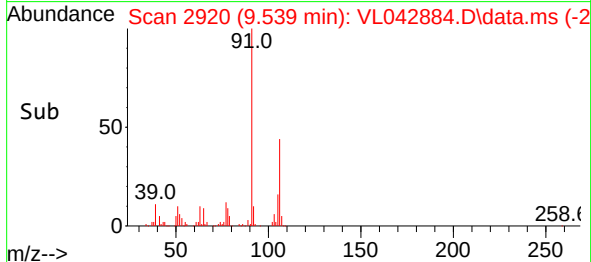
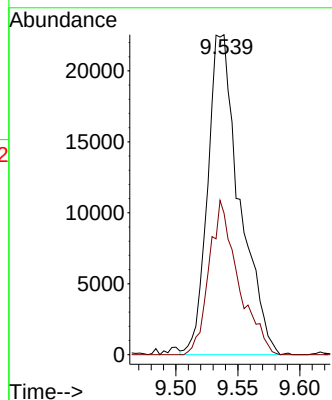
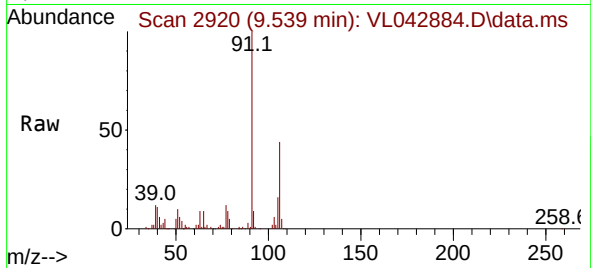
#59
m/p-Xylene
Concen: 0.964 ppbv
RT: 9.539 min Scan# 2921
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 4062
Ion Ratio Lower Upper
91 100
106 44.0 0.0 0.0

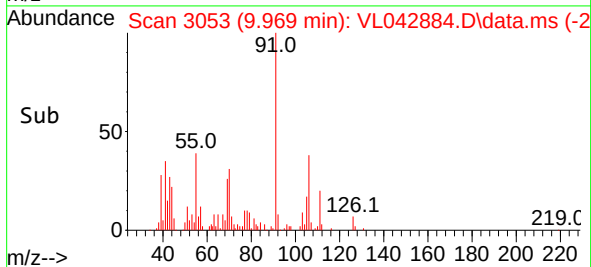
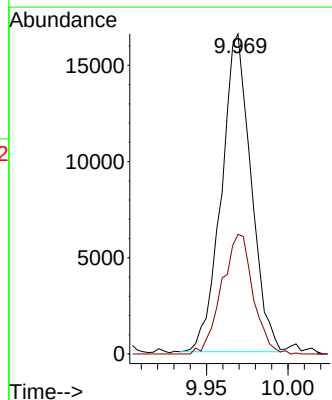
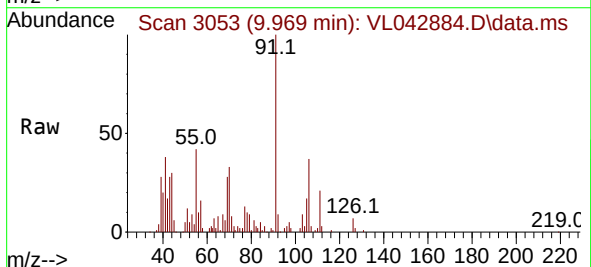
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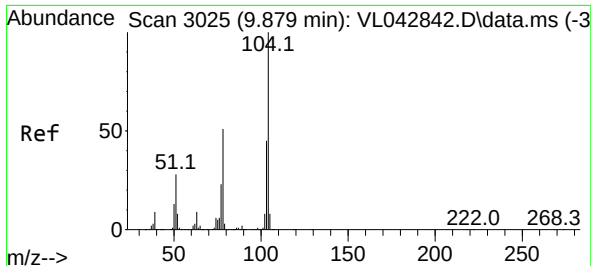
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#60
o-Xylene
Concen: 0.492 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 91 Resp: 20845
Ion Ratio Lower Upper
91 100
106 39.7 21.8 65.4





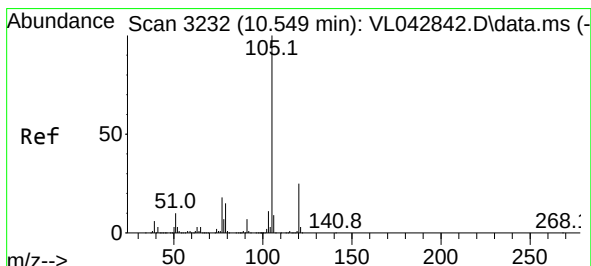
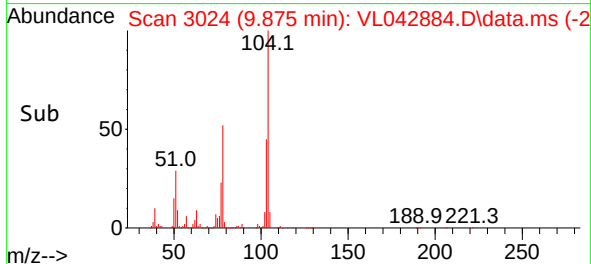
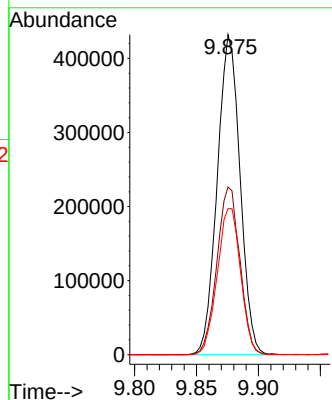
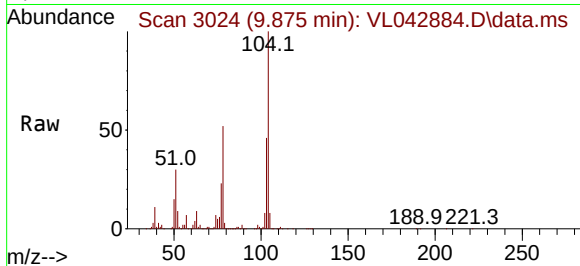
#61
Styrene
Concen: 27.930 ppbv
RT: 9.875 min Scan# 3025
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion:104 Resp: 55452
Ion Ratio Lower Upper
104 100
78 52.8 40.6 61.0
103 46.8 37.7 56.5

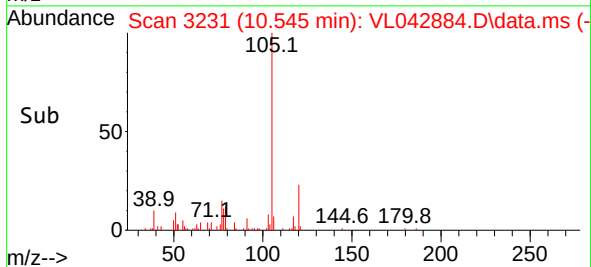
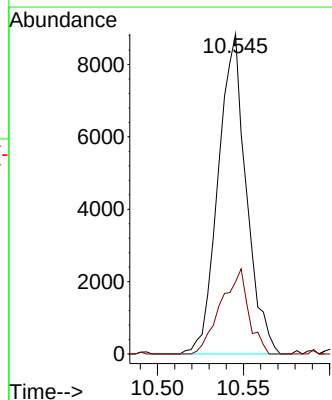
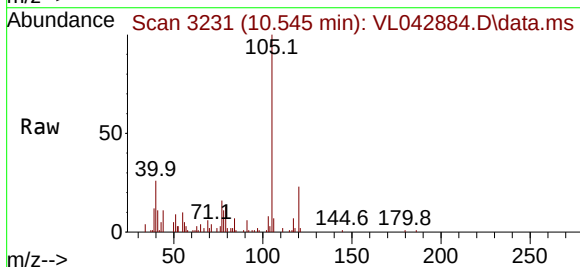
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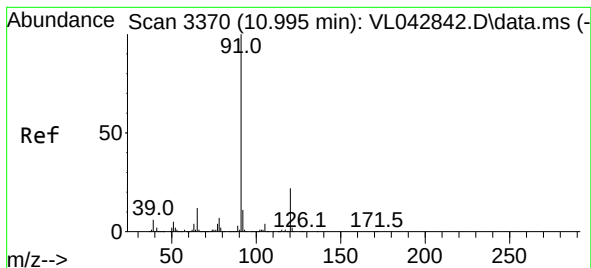
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#62
Isopropylbenzene
Concen: 0.162 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion:105 Resp: 10042
Ion Ratio Lower Upper
105 100
120 26.2 20.6 30.8





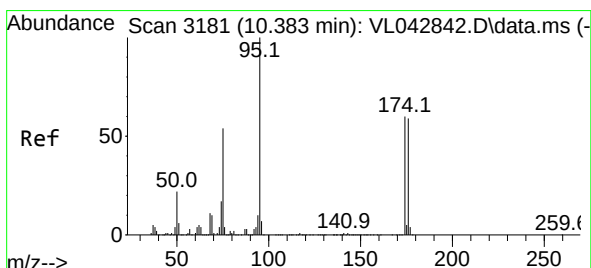
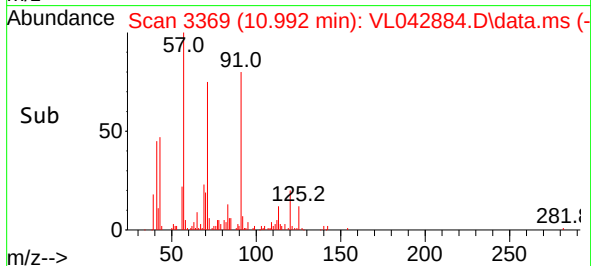
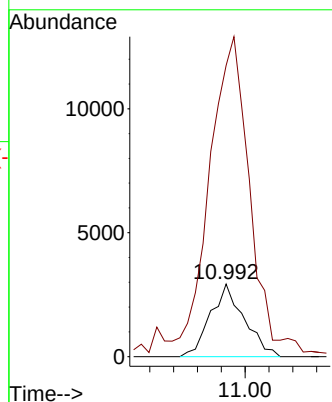
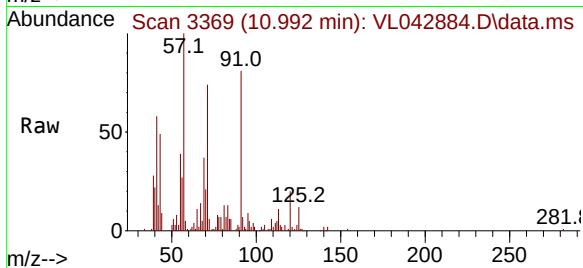
#64
n-propylbenzene
Concen: 0.183 ppbv
RT: 10.992 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:120 Resp: 2884
Ion Ratio Lower Upper
120 100
91 547.3 375.8 563.6

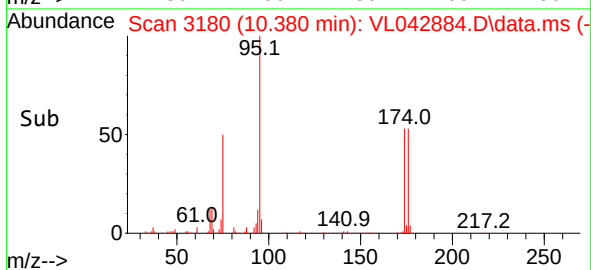
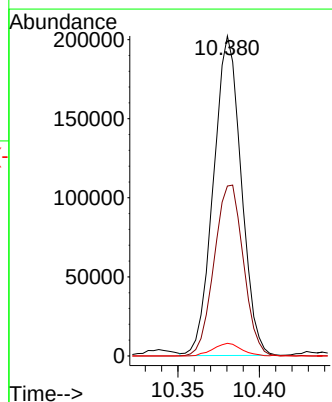
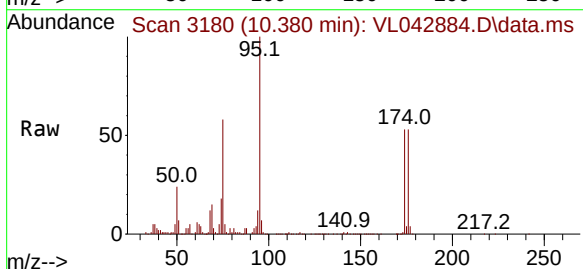
Manual Integrations
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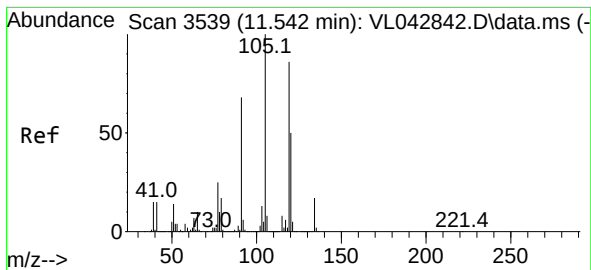
Reviewed By :Semsettin Yesilyurt 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.465 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

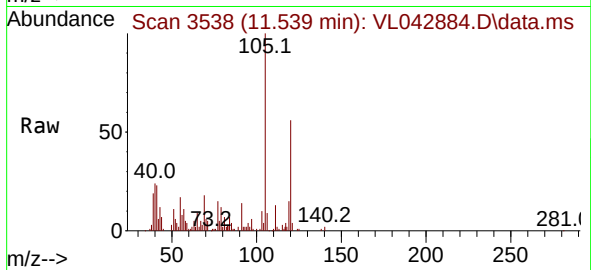
Tgt Ion: 95 Resp: 239031
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 4.1 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.339 ppbv
 RT: 11.539 min Scan# 3539
 Delta R.T. -0.003 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Instrument : MSVOA_L
 ClientSampleId : SV1



Tgt Ion:	105	Resp:	16244
Ion	Ratio	Lower	Upper
105	100		
120	56.1	39.8	59.6
91	13.3	54.2	81.4
77	12.3	19.8	29.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025

