

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042281.D
 Acq On : 09 Apr 2025 01:49
 Operator : SY/MD
 Sample : Q1728-05 4X
 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 05:21:35 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	153705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	388271	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	381682	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	292407	9.329	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3000	0.132	ppbv	89
4) Chloromethane	1.534	50	1372	0.148	ppbv #	85
9) Propene	1.486	41	9825	0.925	ppbv #	15
10) Heptane	4.985	43	10112	0.358	ppbv	89
13) Ethanol	1.722	45	27425	27.301	ppbv	84
15) Acetone	1.835	43	1817333	84.541	ppbv #	87
17) tert-Butyl alcohol	2.042	59	18264	0.682	ppbv	95
20) Methylene Chloride	2.062	84	10120	1.264	ppbv #	81
26) Hexane	2.829	57	9763	0.453	ppbv #	32
30) Cyclohexane	3.858	84	3921	0.210	ppbv #	82
34) 2-Butanone	2.560	43	128691	4.571	ppbv	95
36) Benzene	3.658	78	11702	0.304	ppbv #	93
38) Trichloroethene	4.554	130	1226m	0.076	ppbv	
44) 2,2,4-Trimethylpentane	4.641	57	71853	1.105	ppbv #	79
50) 4-Methyl-2-Pentanone	5.781	43	8864m	0.199	ppbv	
53) Toluene	6.933	91	261772	5.737	ppbv	98
57) Chlorobenzene	8.920	112	6785	0.187	ppbv #	95
58) Ethyl Benzene	9.354	91	19066	0.281	ppbv	93
59) m/p-Xylene	9.532	91	46011	0.850	ppbv	98
60) o-Xylene	9.962	91	20160	0.371	ppbv	99
61) Styrene	9.872	104	4043	0.151	ppbv #	90
71) 2-Chlorotoluene	10.904	91	267528	4.247	ppbv	98
74) 1,2,4-Trimethylbenzene	11.535	105	7115	0.105	ppbv #	66

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

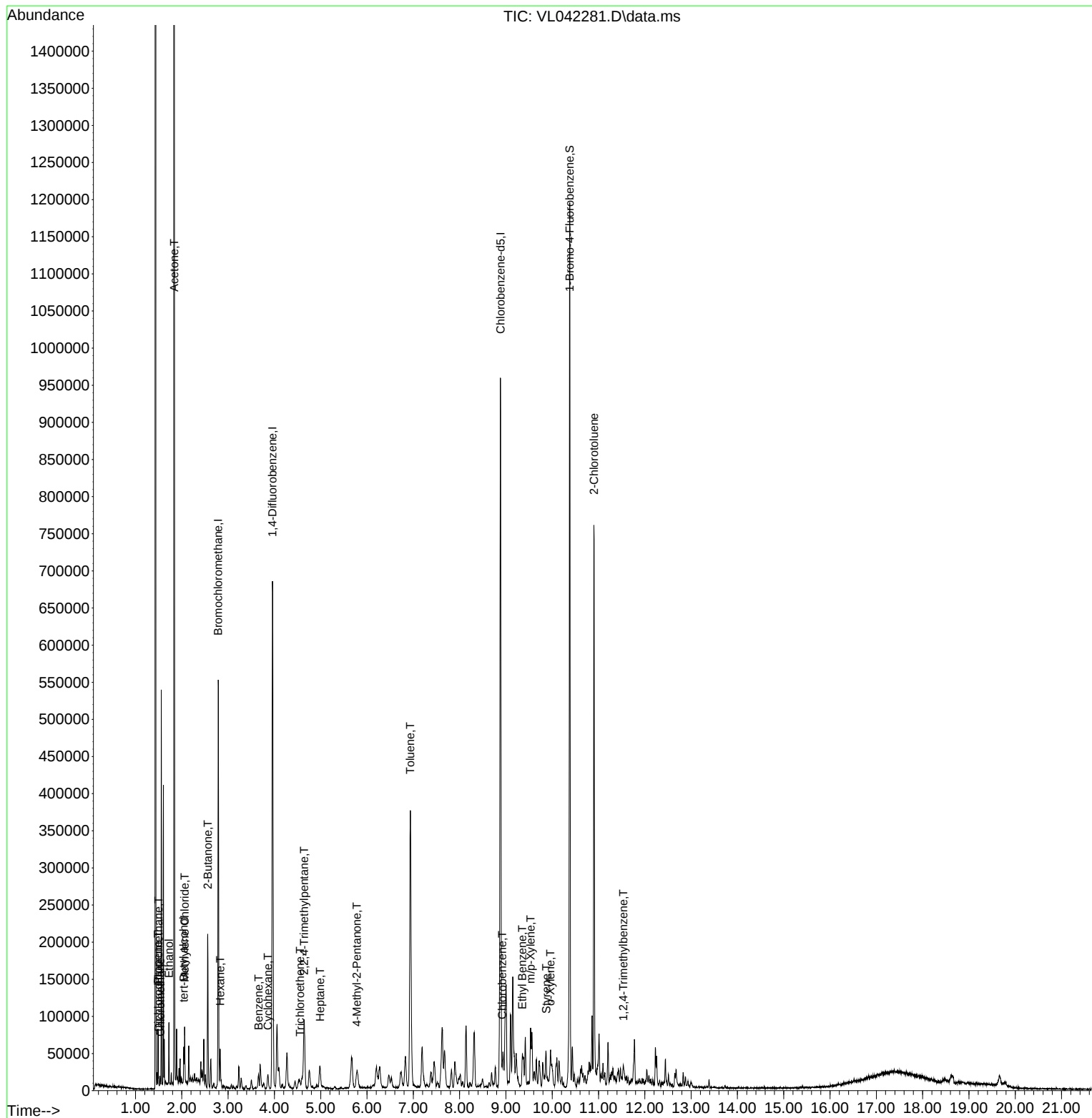
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
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Manual Integrations
APPROVED

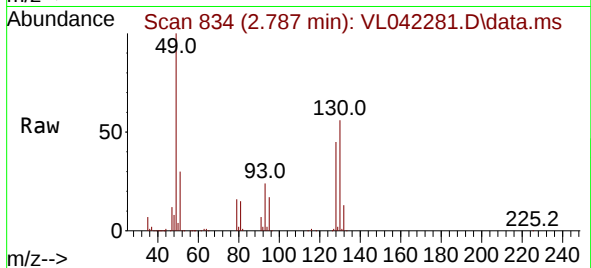
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

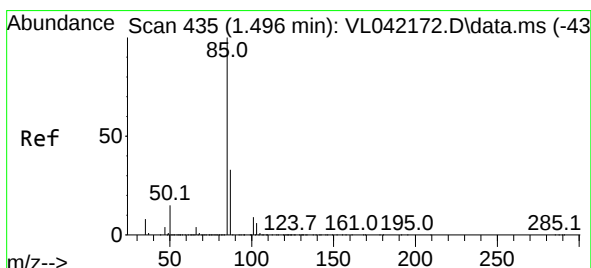
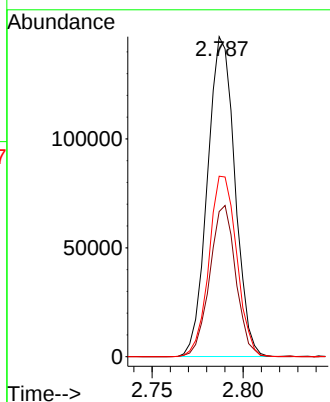
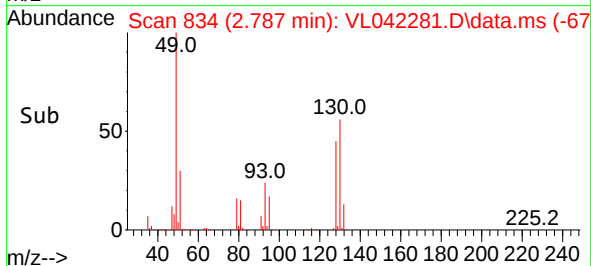
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



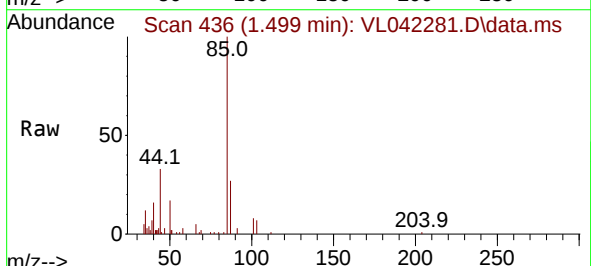
Tgt Ion: 49 Resp: 15370
Ion Ratio Lower Upper
49 100
128 44.9 22.9 68.5
130 57.1 28.8 86.4

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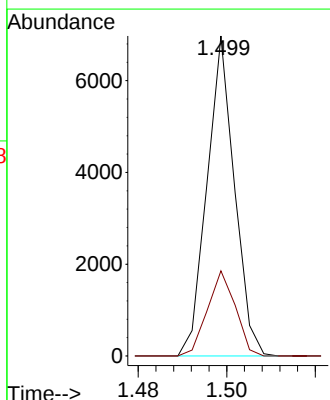
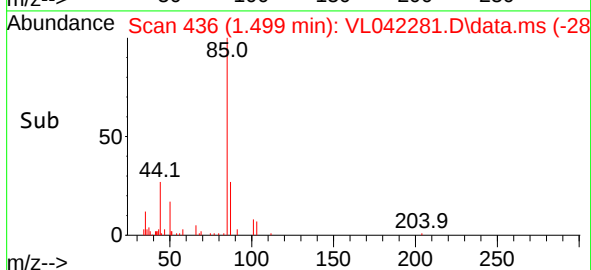
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

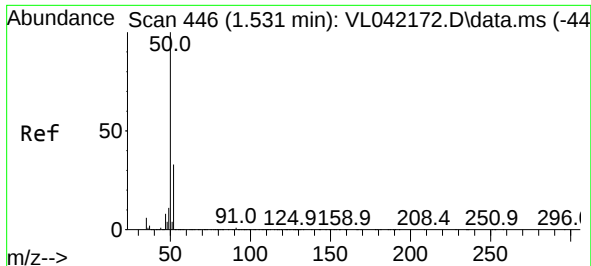


#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



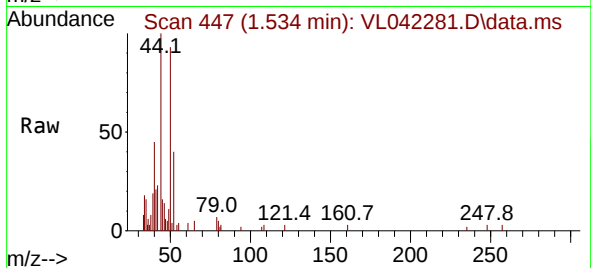
Tgt Ion: 85 Resp: 3000
Ion Ratio Lower Upper
85 100
87 26.6 26.1 39.1





#4
Chloromethane
Concen: 0.148 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

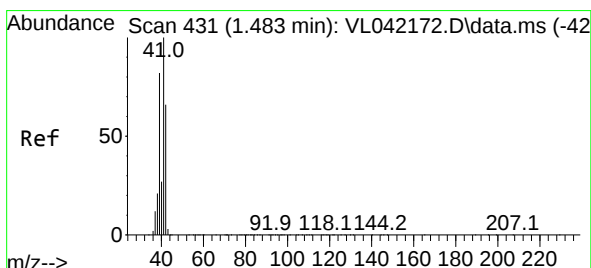
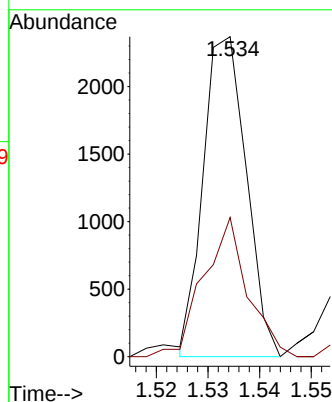
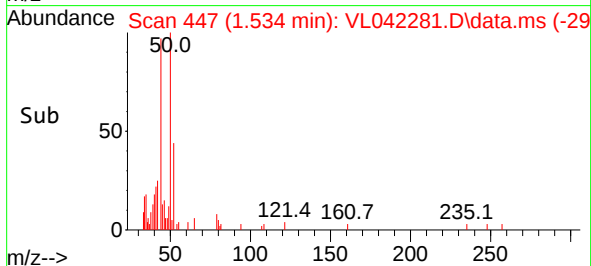
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 50 Resp: 1372
Ion Ratio Lower Upper
50 100
52 41.2 26.1 39.1

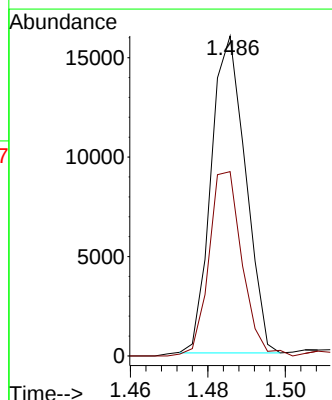
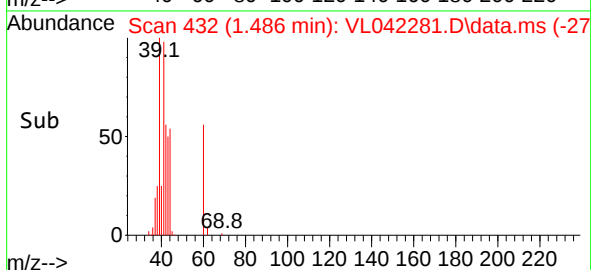
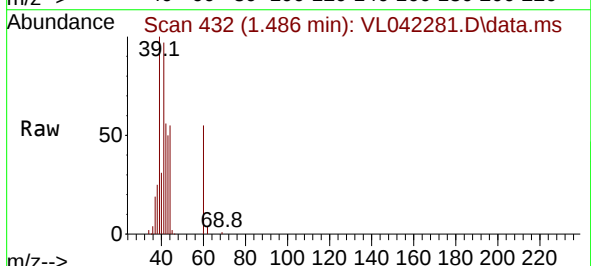
Manual Integrations
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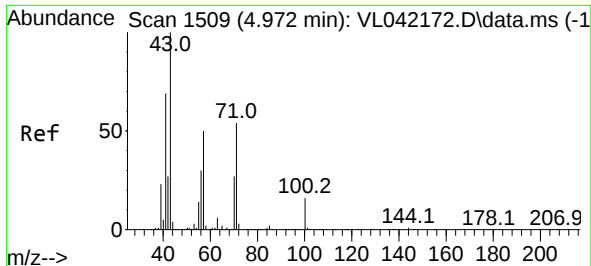
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.925 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

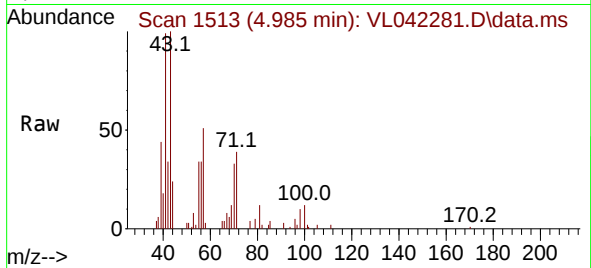
Tgt Ion: 41 Resp: 9825
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2





#10
Heptane
Concen: 0.358 ppbv
RT: 4.985 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

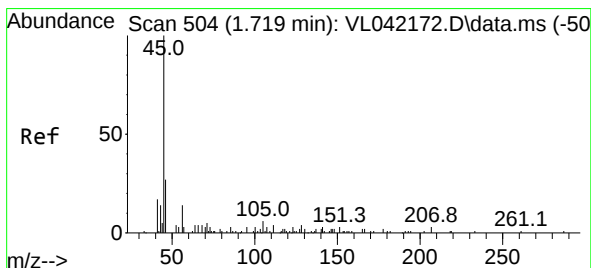
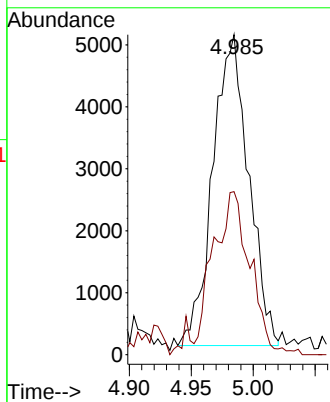
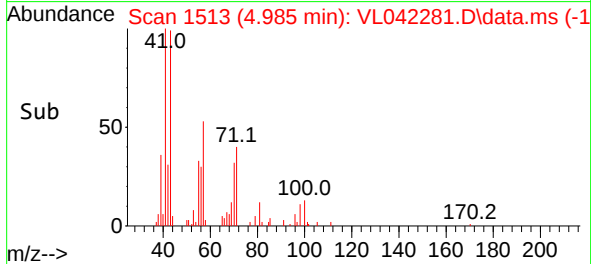
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
57 56.7 39.4 59.2

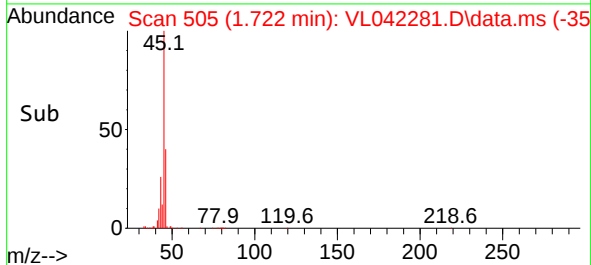
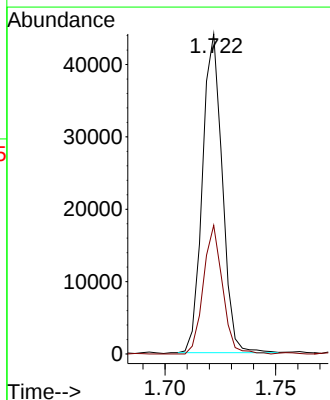
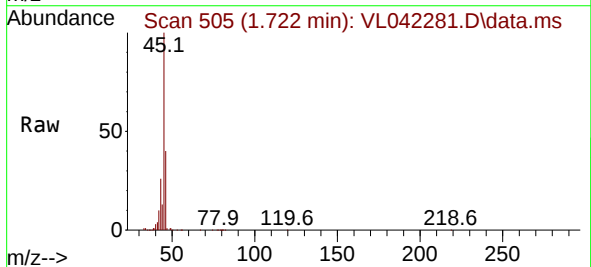
Manual Integrations
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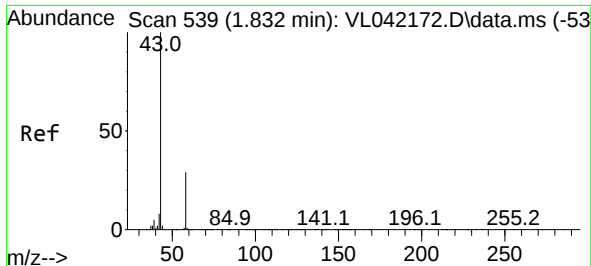
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 27.301 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

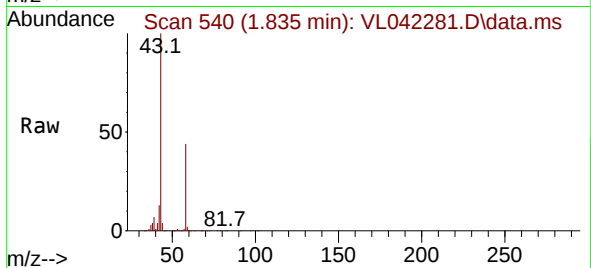
Tgt Ion: 45 Resp: 27425
Ion Ratio Lower Upper
45 100
46 39.7 20.2 80.8





#15
Acetone
Concen: 84.541 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

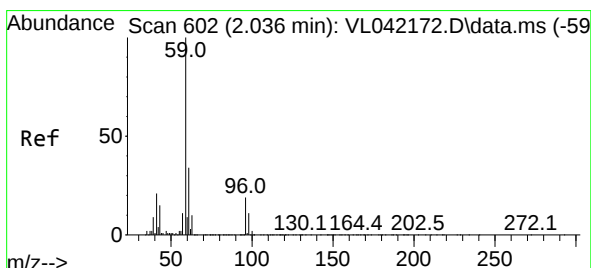
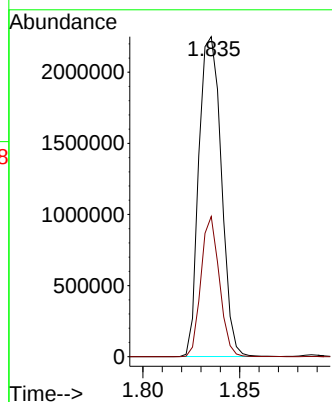
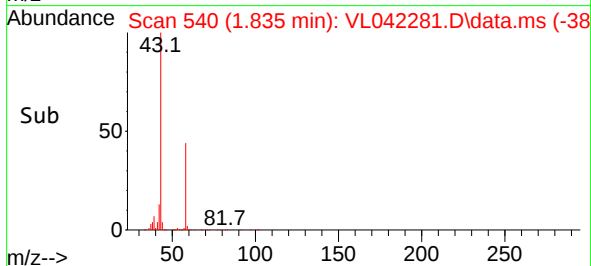
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



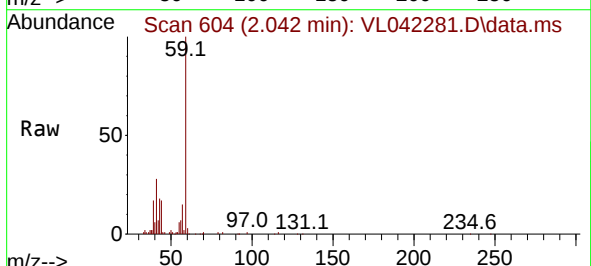
Tgt Ion: 43 Resp: 1817333
Ion Ratio Lower Upper
43 100
58 36.1 23.2 34.8

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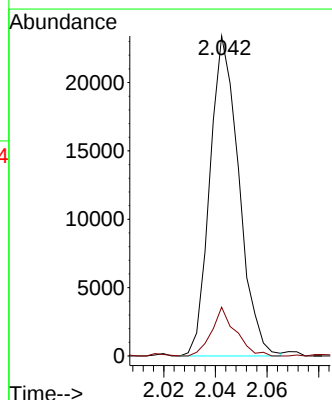
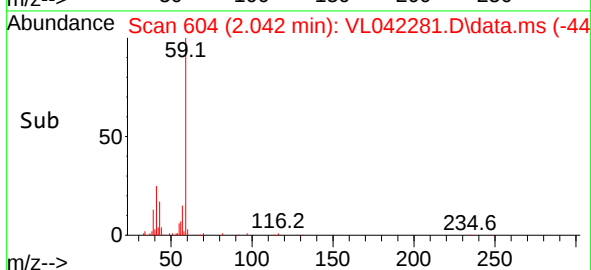
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

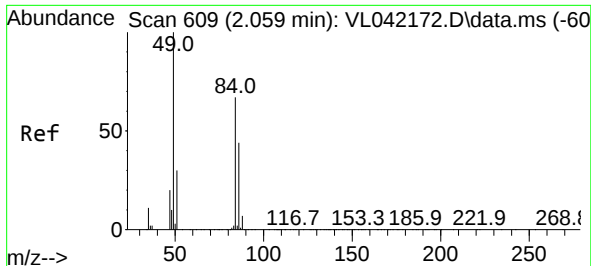


#17
tert-Butyl alcohol
Concen: 0.682 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



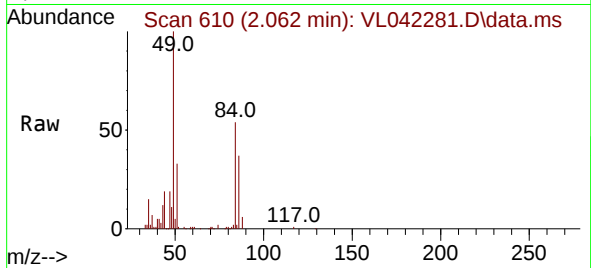
Tgt Ion: 59 Resp: 18264
Ion Ratio Lower Upper
59 100
57 13.0 8.9 13.3





#20
Methylene Chloride
Concen: 1.264 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

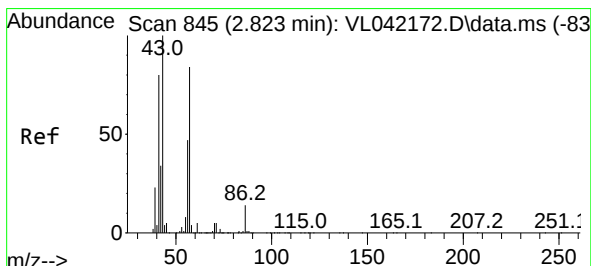
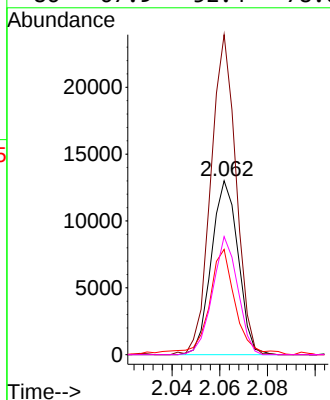
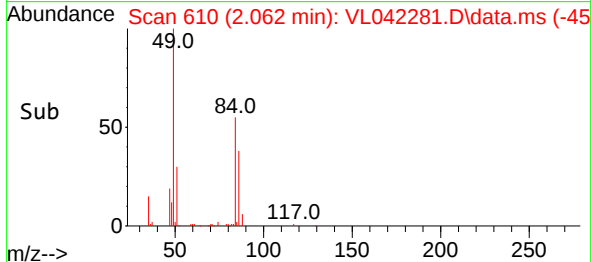
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 84 Resp: 10120
Ion Ratio Lower Upper
84 100
49 184.0 120.2 180.4#
51 58.7 37.4 56.0#
86 67.9 52.4 78.6

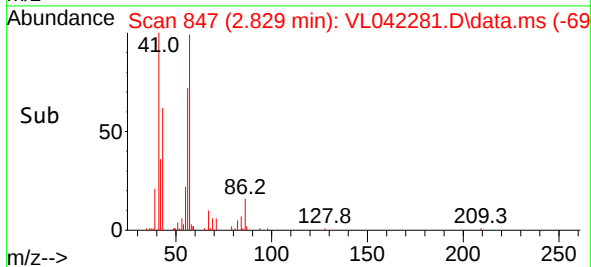
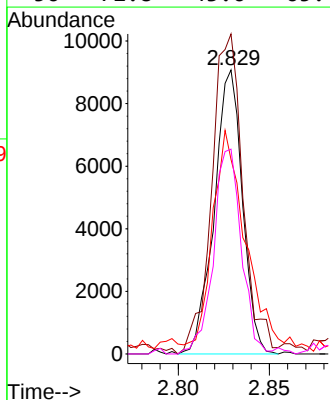
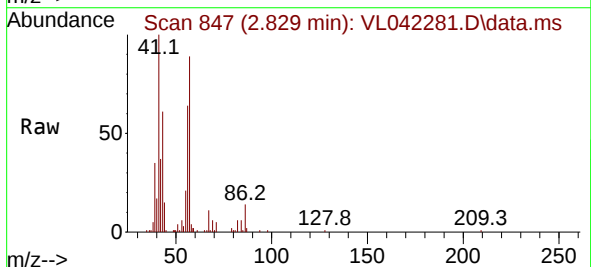
Manual Integrations
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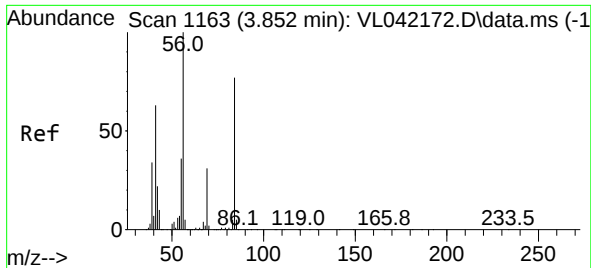
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.453 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

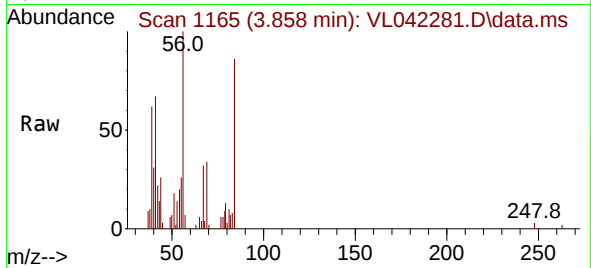
Tgt Ion: 57 Resp: 9763
Ion Ratio Lower Upper
57 100
41 119.4 76.6 114.8#
43 92.8 207.8 311.8#
56 72.8 43.6 65.4#





#30
Cyclohexane
Concen: 0.210 ppbv
RT: 3.858 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

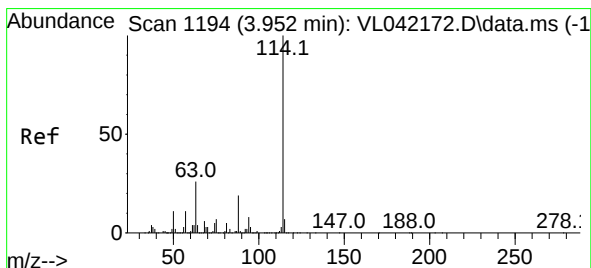
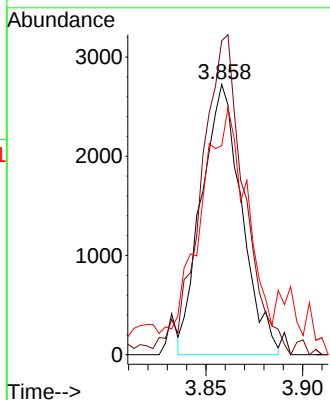
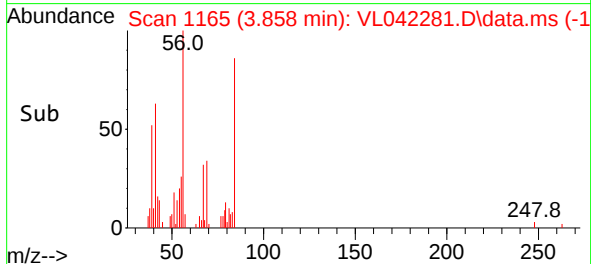
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



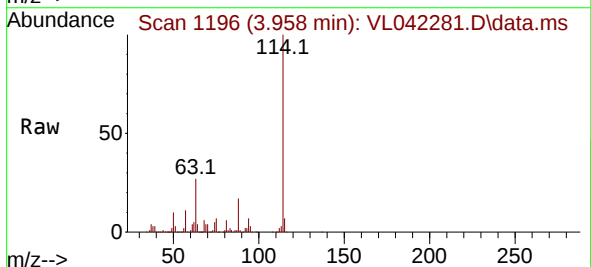
Tgt Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
56 129.2 102.8 154.2
41 122.6 66.5 99.7

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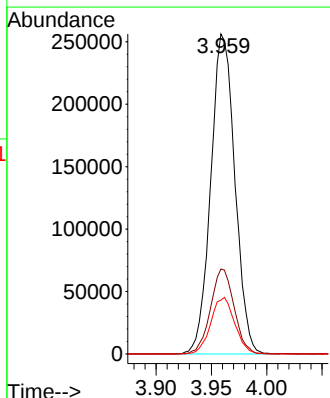
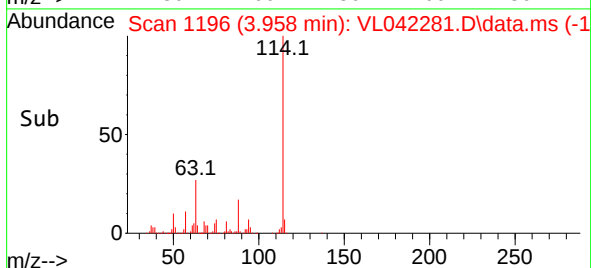
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

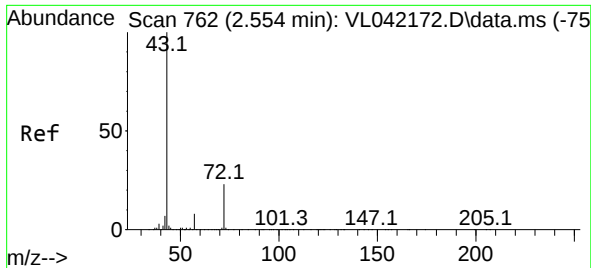


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



Tgt Ion:114 Resp: 388271
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 17.6 15.0 22.4





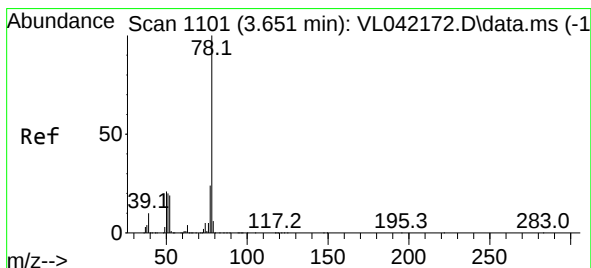
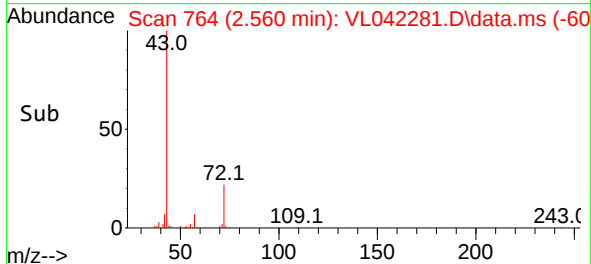
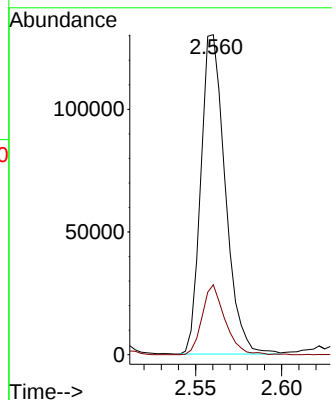
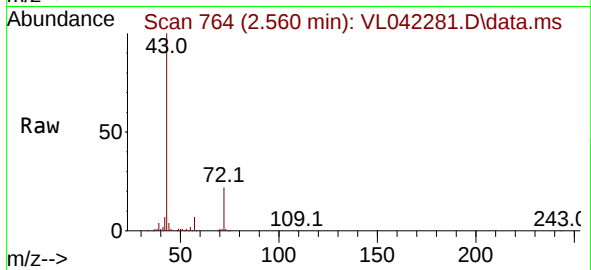
#34
2-Butanone
Concen: 4.571 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

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

Tgt Ion: 43 Resp: 12869
Ion Ratio Lower Upper
43 100
72 20.5 18.2 27.2

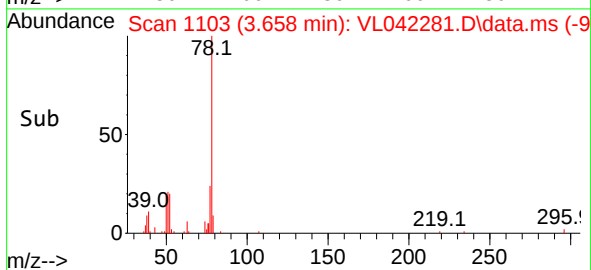
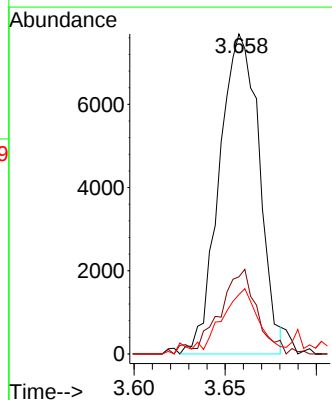
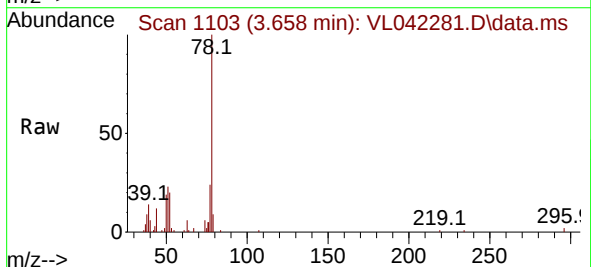
Manual Integrations
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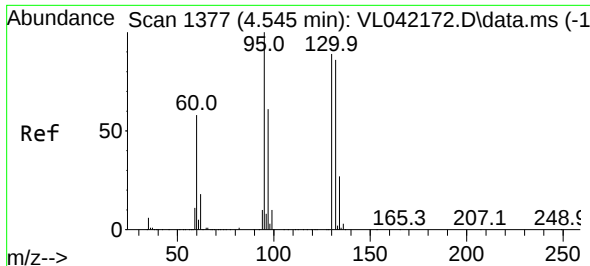
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#36
Benzene
Concen: 0.304 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

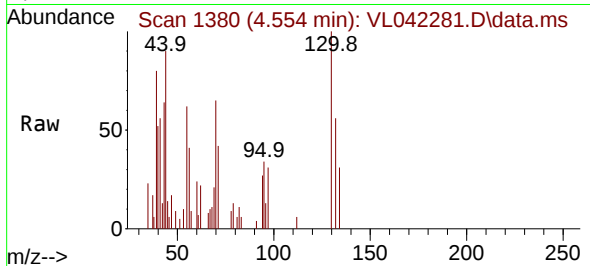
Tgt Ion: 78 Resp: 11702
Ion Ratio Lower Upper
78 100
77 21.4 19.1 28.7
50 16.2 16.6 24.8#





#38
 Trichloroethene
 Concen: 0.076 ppbv m
 RT: 4.554 min Scan# 1380
 Delta R.T. 0.009 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

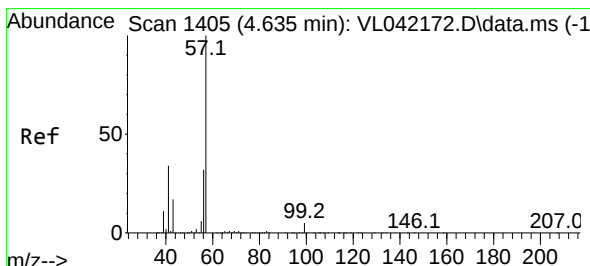
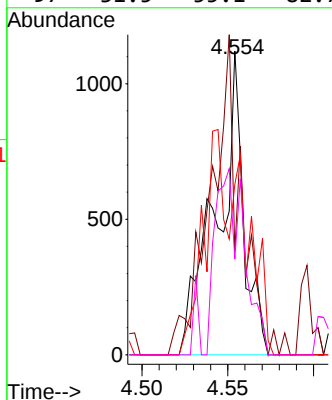
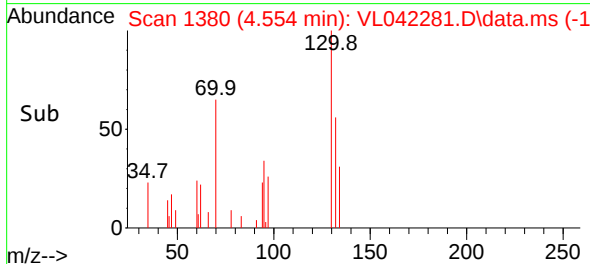
Instrument : MSVOA_L
 ClientSampleId : SSSG-B2-6-04022025



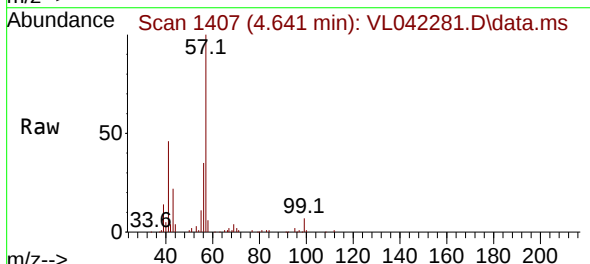
Tgt Ion:130 Resp: 1220
 Ion Ratio Lower Upper
 130 100
 95 34.3 89.8 134.8#
 132 56.1 77.4 116.2#
 97 31.5 55.1 82.7#

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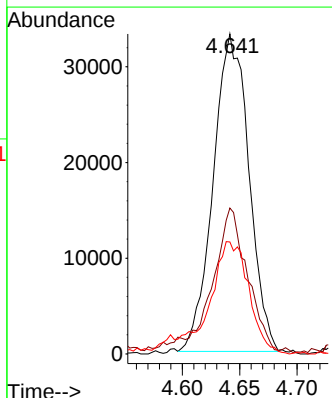
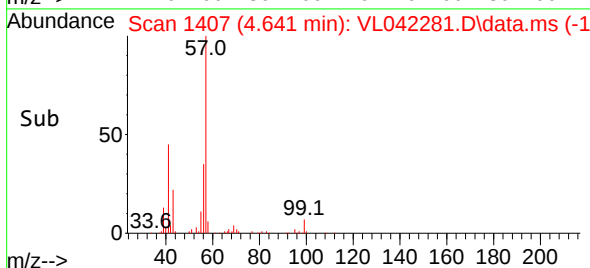
Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

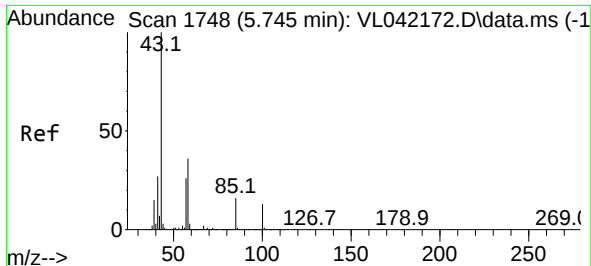


#44
 2,2,4-Trimethylpentane
 Concen: 1.105 ppbv
 RT: 4.641 min Scan# 1407
 Delta R.T. 0.006 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49



Tgt Ion: 57 Resp: 71853
 Ion Ratio Lower Upper
 57 100
 41 47.1 26.8 40.2#
 56 41.7 25.6 38.4#





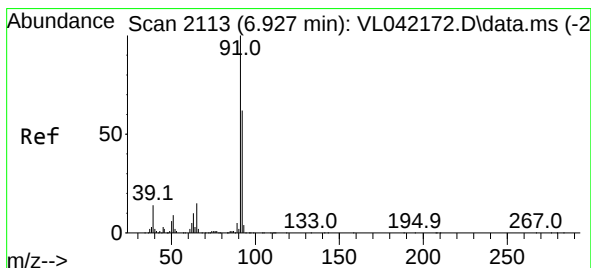
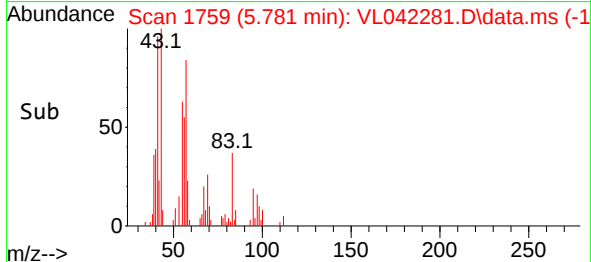
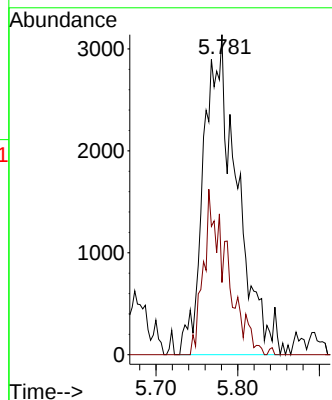
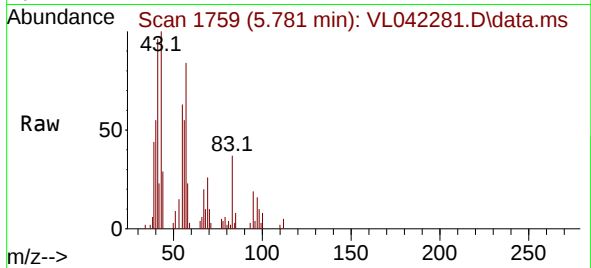
#50
4-Methyl-2-Pentanone
Concen: 0.199 ppbv m
RT: 5.781 min Scan# 11
Delta R.T. 0.035 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

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

Tgt Ion: 43 Resp: 8864
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

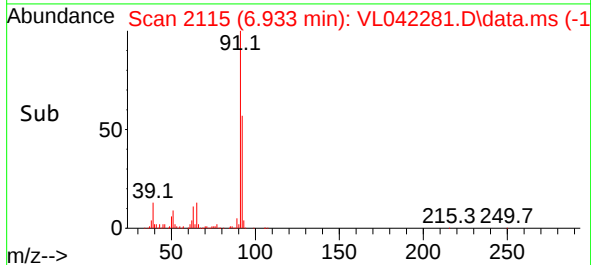
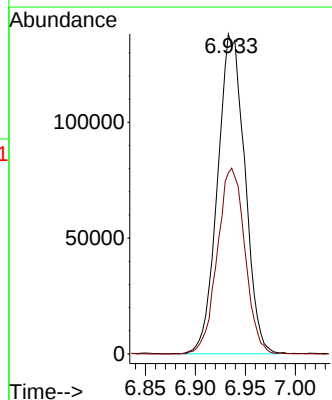
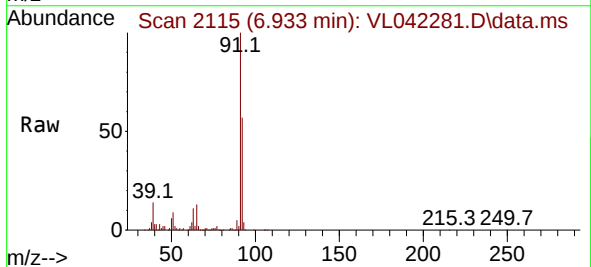
Manual Integrations
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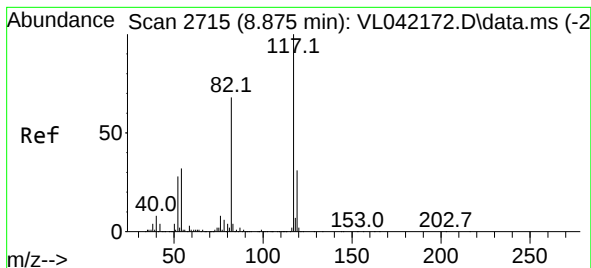
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 5.737 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 91 Resp: 261772
Ion Ratio Lower Upper
91 100
92 59.0 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

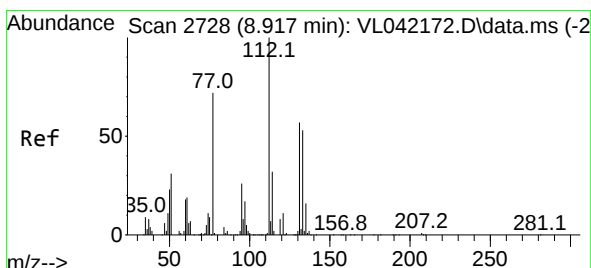
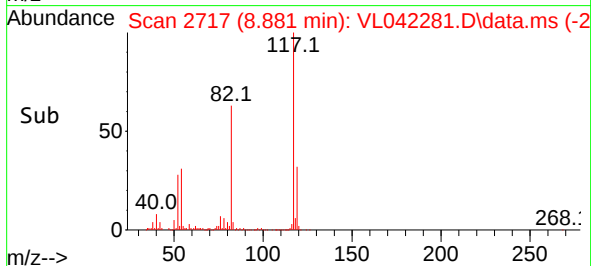
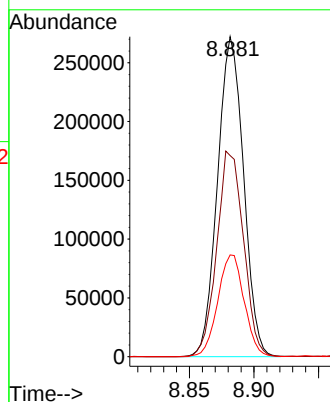
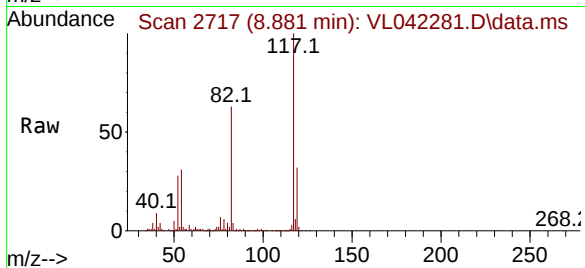
SSSG-B2-6-04022025

Tgt Ion:	117	Resp:	38168
Ion Ratio	Lower	Upper	
117	100		
82	66.0	55.8	83.6
119	32.2	25.5	38.3

Manual Integrations

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



#57

Chlorobenzene

Concen: 0.187 ppbv

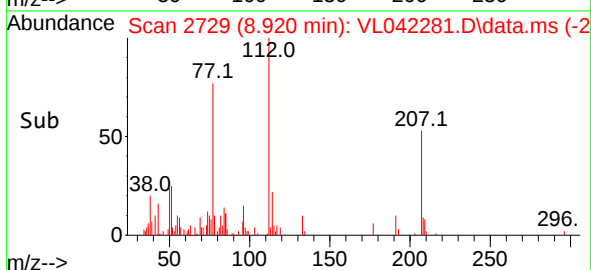
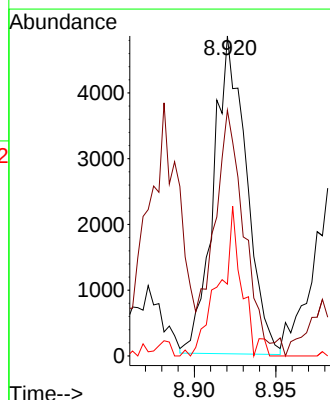
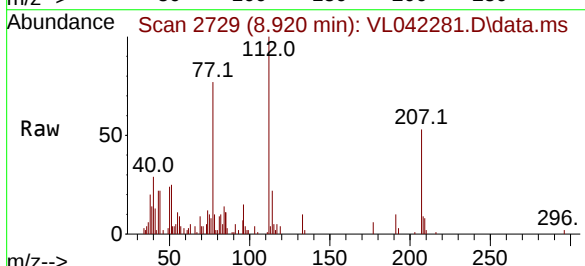
RT: 8.920 min Scan# 2729

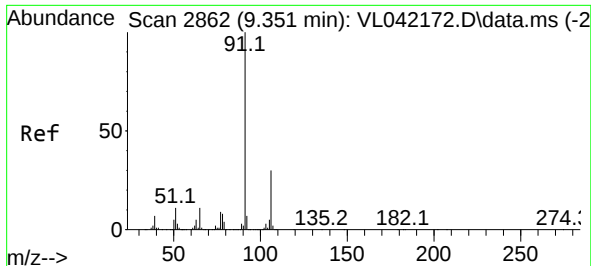
Delta R.T. 0.003 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

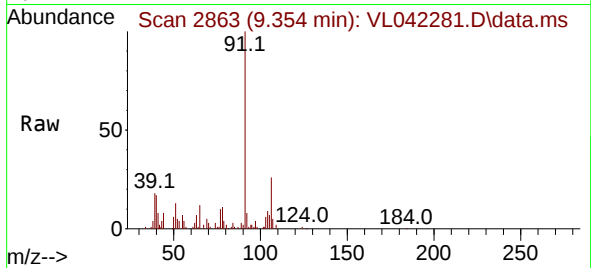
Tgt Ion:	112	Resp:	6785
Ion Ratio	Lower	Upper	
112	100		
77	72.9	58.2	87.2
114	23.0	29.1	35.5





#58
Ethyl Benzene
Concen: 0.281 ppbv
RT: 9.354 min Scan# 2186
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

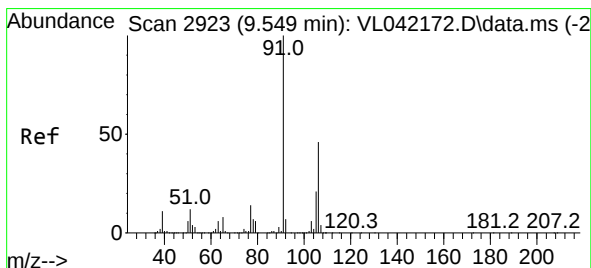
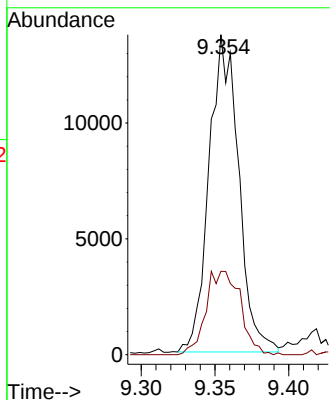
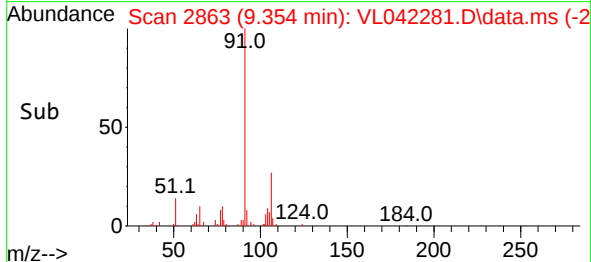
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



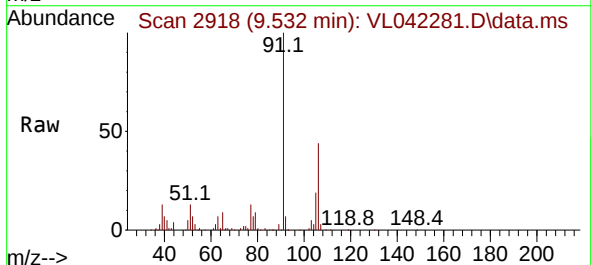
Tgt Ion: 91 Resp: 1906
Ion Ratio Lower Upper
91 100
106 26.3 24.2 36.2

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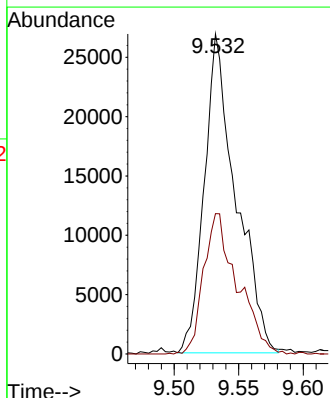
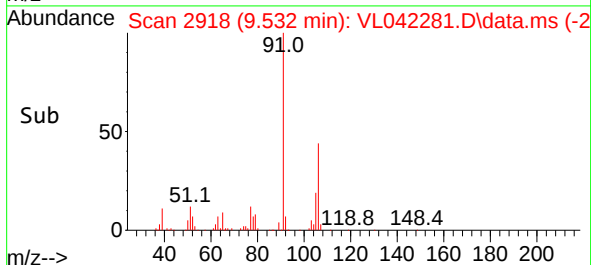
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

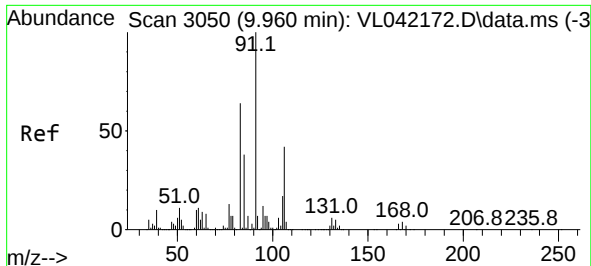


#59
m/p-Xylene
Concen: 0.850 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.017 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



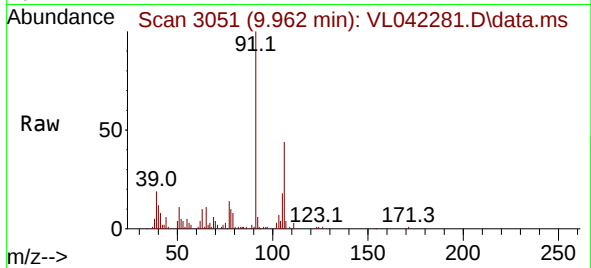
Tgt Ion: 91 Resp: 46011
Ion Ratio Lower Upper
91 100
106 47.0 36.4 54.6





#60
o-Xylene
Concen: 0.371 ppbv
RT: 9.962 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

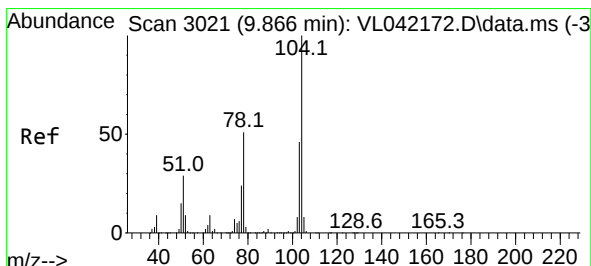
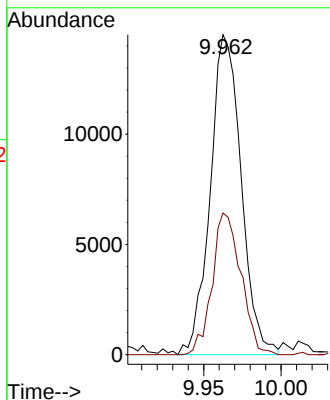
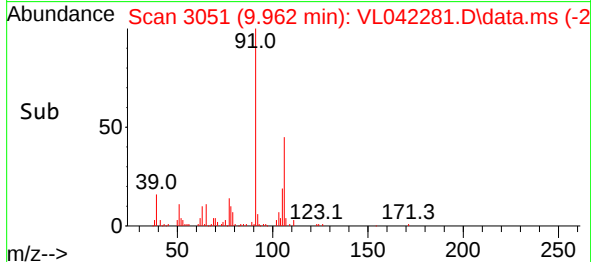
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



Tgt Ion: 91 Resp: 20160
Ion Ratio Lower Upper
91 100
106 41.4 20.8 62.5

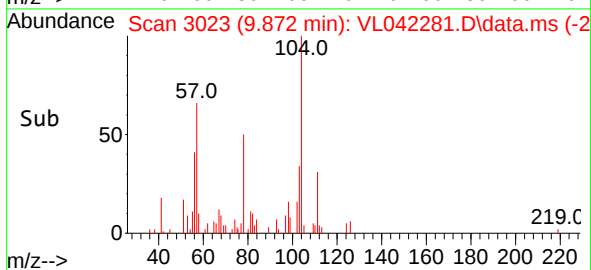
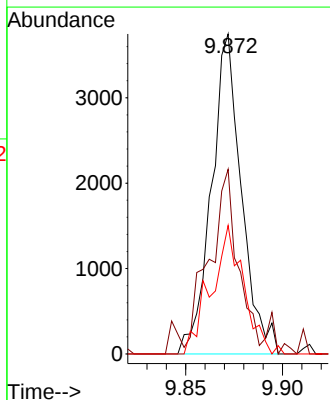
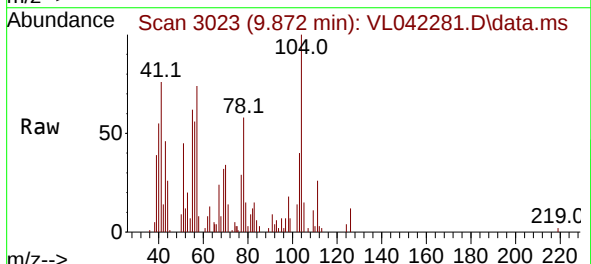
Manual Integrations
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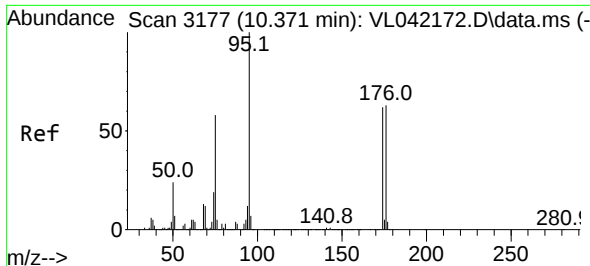
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.151 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

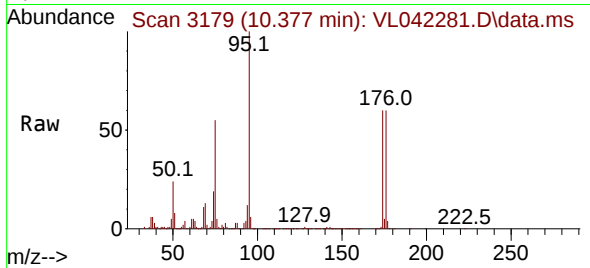
Tgt Ion:104 Resp: 4043
Ion Ratio Lower Upper
104 100
78 63.1 41.8 62.6#
103 43.3 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.329 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

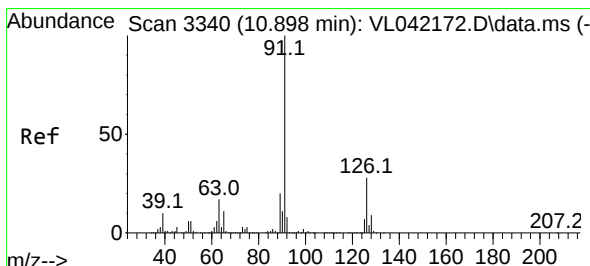
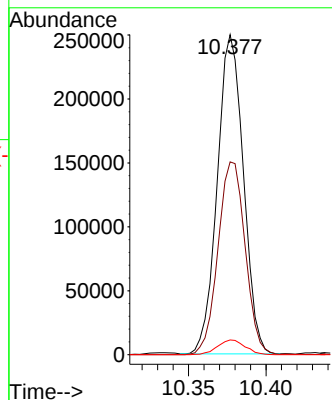
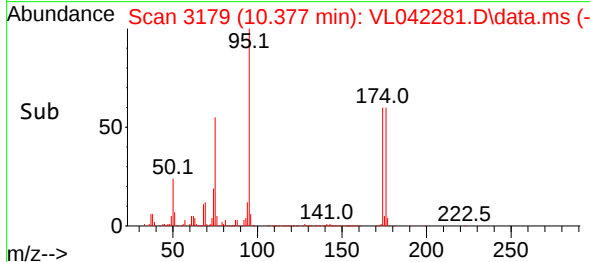
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



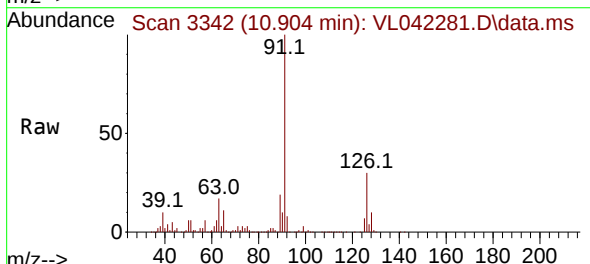
Tgt Ion: 95 Resp: 29240
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.9 3.8 5.6

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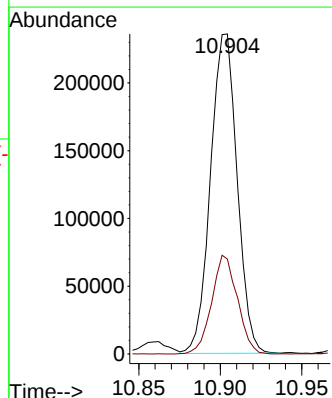
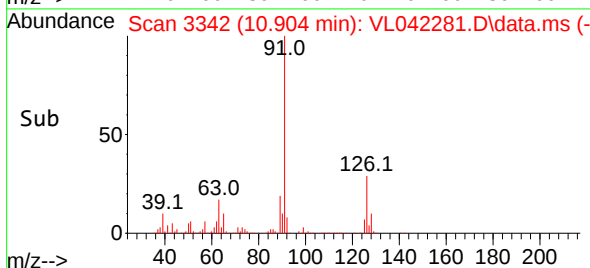
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

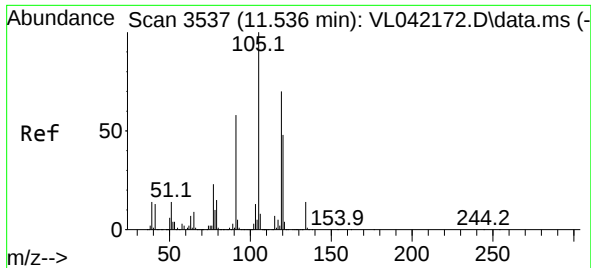


#71
2-Chlorotoluene
Concen: 4.247 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



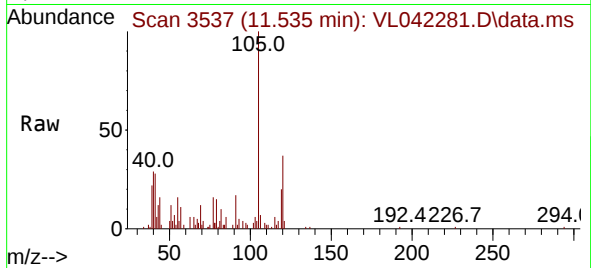
Tgt Ion: 91 Resp: 267528
Ion Ratio Lower Upper
91 100
126 29.9 11.6 46.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 11.535 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

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



Tgt Ion:	105	Resp:	711
Ion	Ratio	Lower	Upper
105	100		
120	36.4	38.6	58.0
91	16.3	46.2	69.2
77	16.2	18.6	27.8

Manual Integrations
 APPROVED

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

