

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042277.D
 Acq On : 08 Apr 2025 23:44
 Operator : SY/MD
 Sample : Q1728-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

Manual Integrations
 APPROVED

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

Quant Time: Apr 09 02:02:31 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	2.793	49	164142	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	421001	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	366383	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	289703	9.629	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5920	0.244	ppbv	89
3) Chlorodifluoromethane	1.479	51	3537m	0.143	ppbv	
4) Chloromethane	1.534	50	2769	0.280	ppbv	95
9) Propene	1.489	41	3082m	0.272	ppbv	
10) Heptane	4.991	43	3495m	0.116	ppbv	
11) Trichlorofluoromethane	1.881	101	2451	0.104	ppbv	86
13) Ethanol	1.725	45	15149	14.122	ppbv	79
15) Acetone	1.839	43	611384	26.633	ppbv	96
19) Isopropyl Alcohol	1.890	45	1073145	82.853	ppbv #	31
20) Methylene Chloride	2.065	84	17035	1.992	ppbv	93
26) Hexane	2.832	57	14226	0.618	ppbv #	38
29) Chloroform	2.855	83	3922	0.116	ppbv	84
34) 2-Butanone	2.567	43	12029	0.394	ppbv	100
35) Carbon Tetrachloride	3.781	117	1268m	0.039	ppbv	
36) Benzene	3.664	78	6732	0.161	ppbv #	89
52) Tetrachloroethene	8.228	164	648m	0.039	ppbv	
53) Toluene	6.943	91	35716	0.722	ppbv	97
58) Ethyl Benzene	9.364	91	30797	0.473	ppbv	92
59) m/p-Xylene	9.542	91	95378	1.835	ppbv	99
60) o-Xylene	9.969	91	22277	0.428	ppbv	96
61) Styrene	9.875	104	6538	0.254	ppbv	92
74) 1,2,4-Trimethylbenzene	11.545	105	10923	0.167	ppbv #	66

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

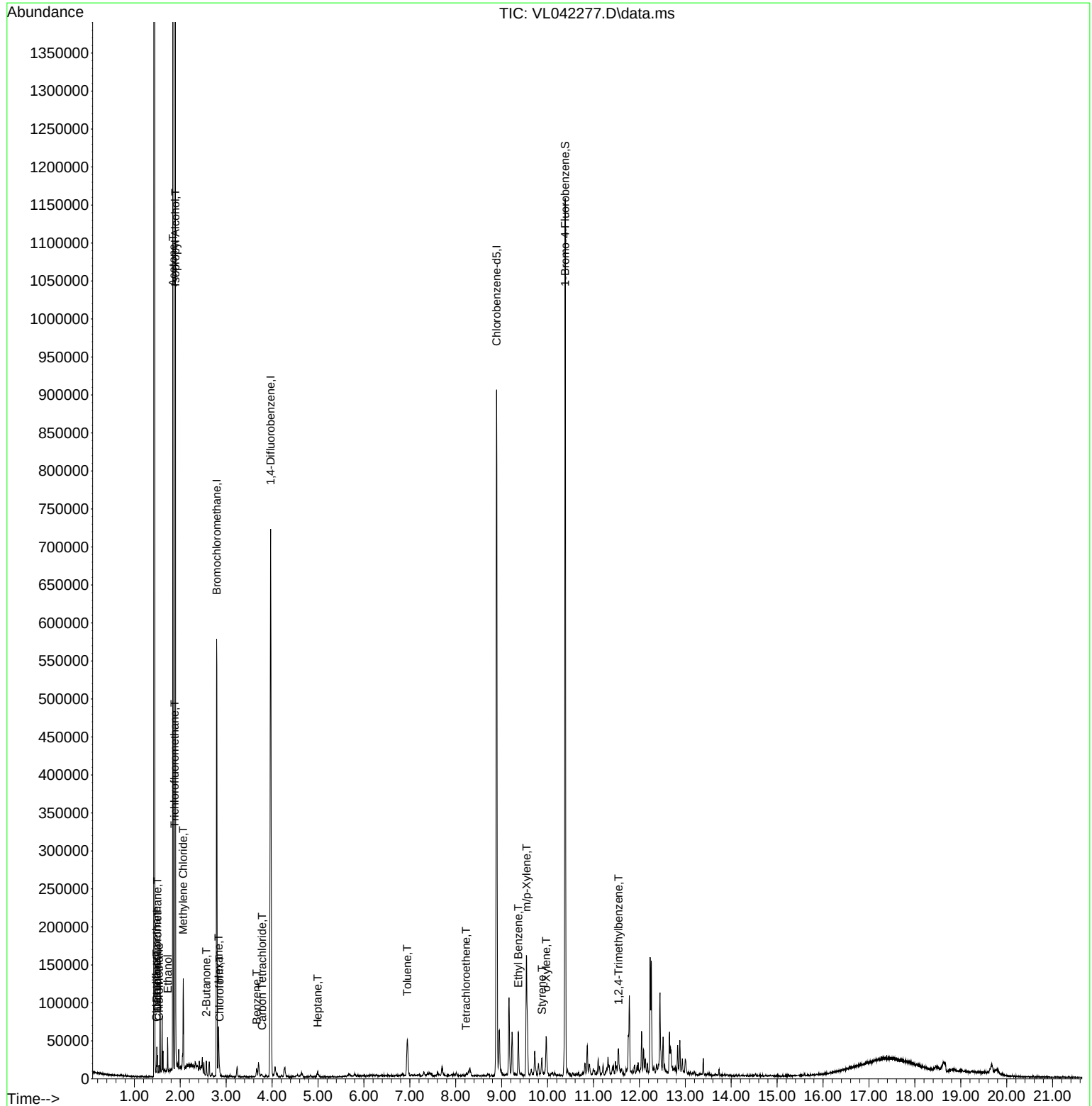
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
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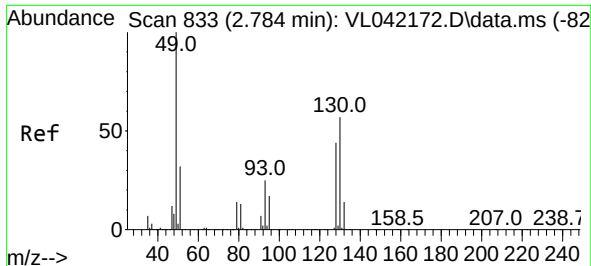
Instrument :
MSVOA_L
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SSSG-B14-2-04012025

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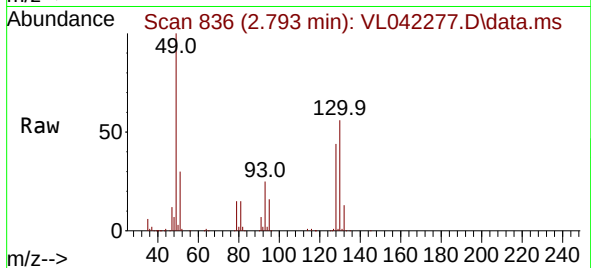
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

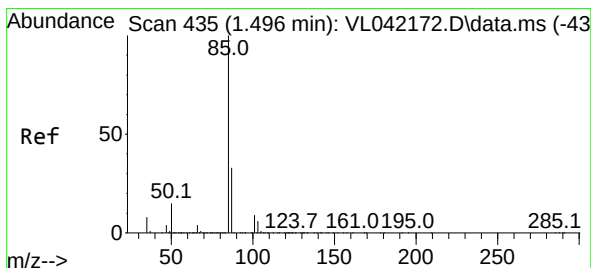
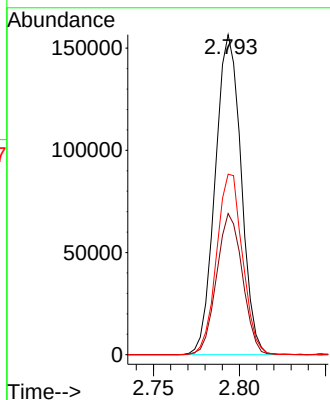
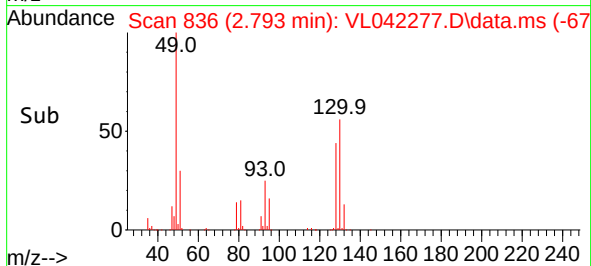
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



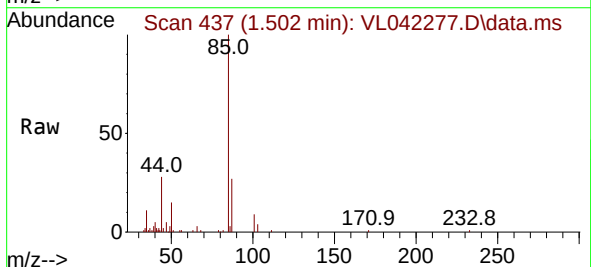
Tgt Ion: 49 Resp: 16414
Ion Ratio Lower Upper
49 100
128 44.0 22.9 68.5
130 56.5 28.8 86.4

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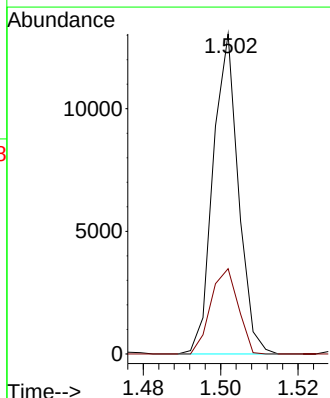
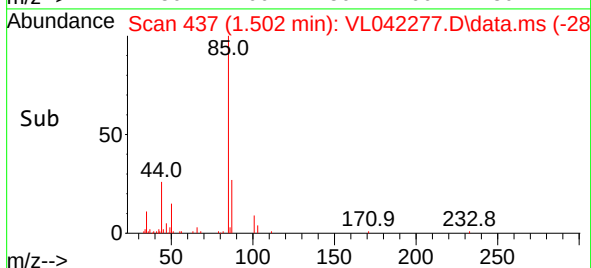
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

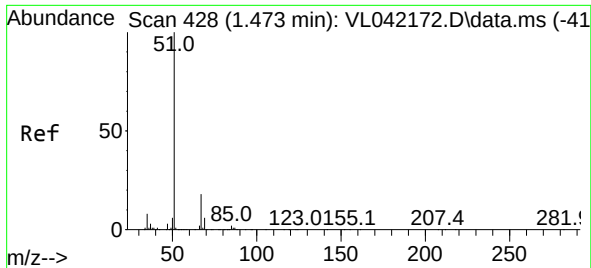


#2
Dichlorodifluoromethane
Concen: 0.244 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44



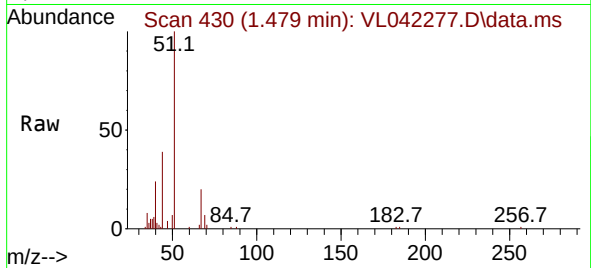
Tgt Ion: 85 Resp: 5920
Ion Ratio Lower Upper
85 100
87 26.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.143 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

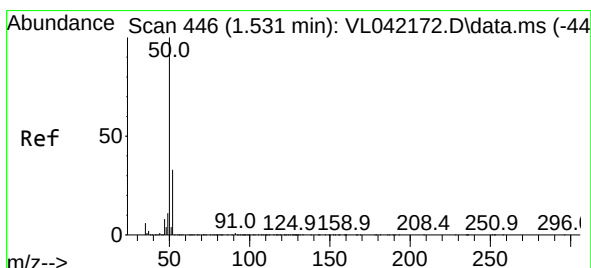
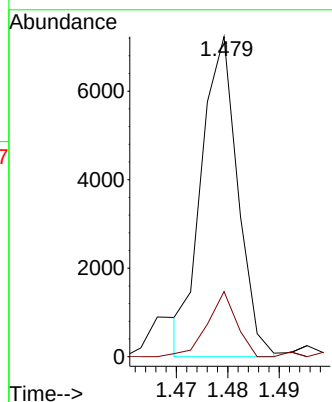
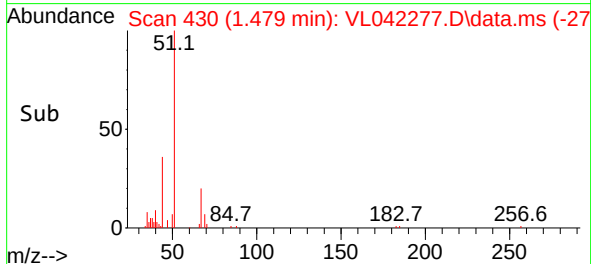
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



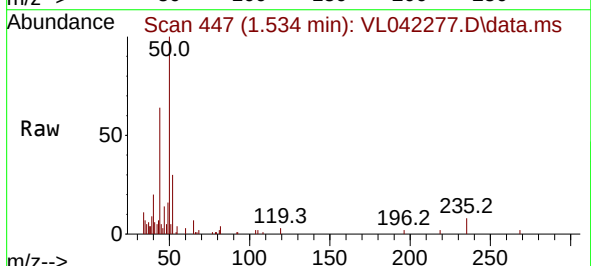
Tgt Ion: 51 Resp: 353
Ion Ratio Lower Upper
51 100
67 1.8 15.0 22.6

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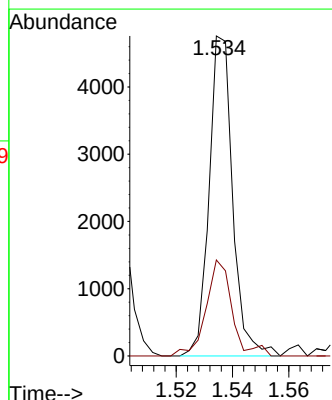
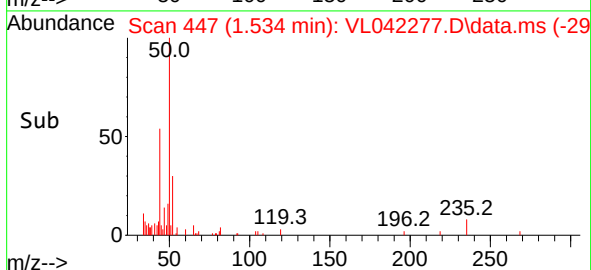
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

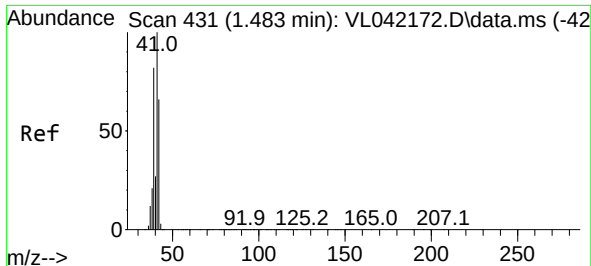


#4
Chloromethane
Concen: 0.280 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44



Tgt Ion: 50 Resp: 2769
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1





#9

Propene

Concen: 0.272 ppbv m

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

Tgt Ion: 41 Resp: 308

Ion Ratio Lower Upper

41 100

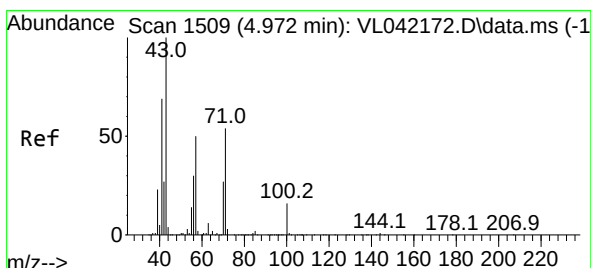
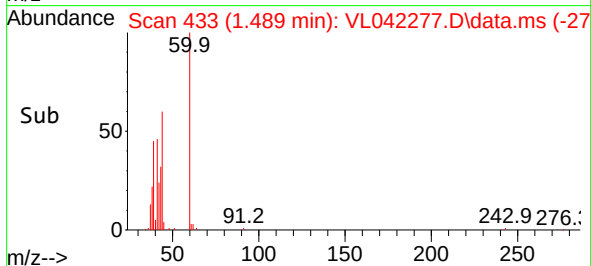
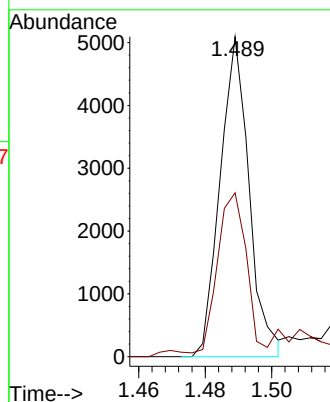
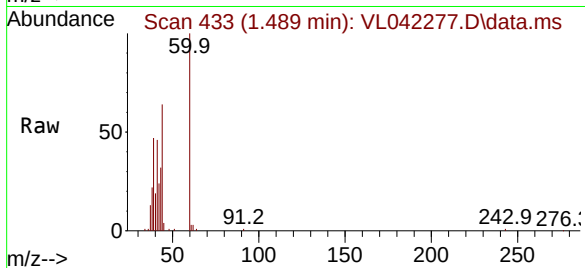
42 1999.1 55.4 83.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025

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#10

Heptane

Concen: 0.116 ppbv m

RT: 4.991 min Scan# 1515

Delta R.T. 0.019 min

Lab File: VL042277.D

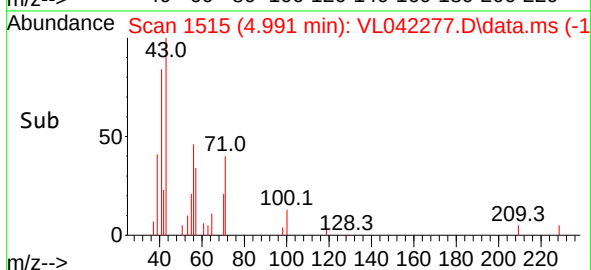
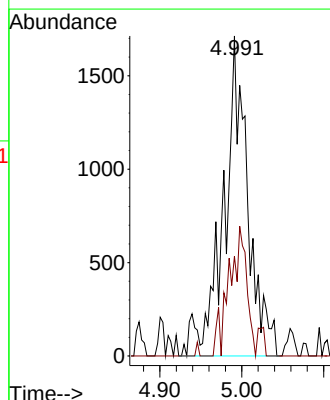
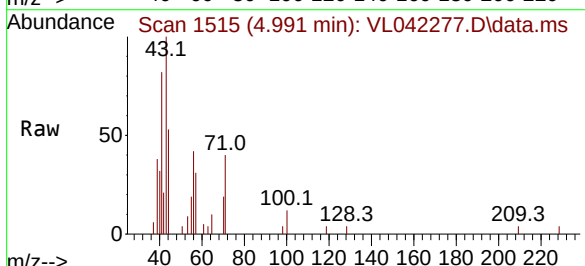
Acq: 08 Apr 2025 23:44

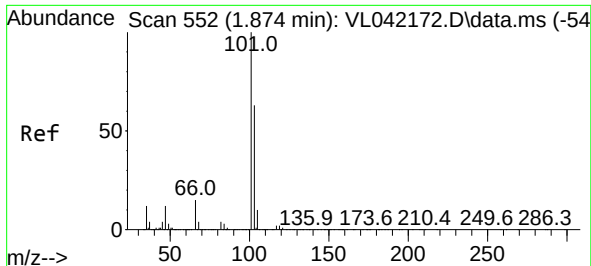
Tgt Ion: 43 Resp: 3495

Ion Ratio Lower Upper

43 100

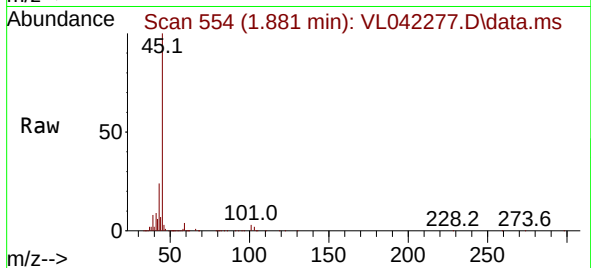
57 0.0 39.4 59.2#





#11
Trichlorofluoromethane
Concen: 0.104 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

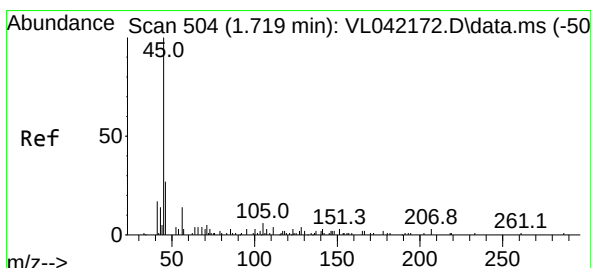
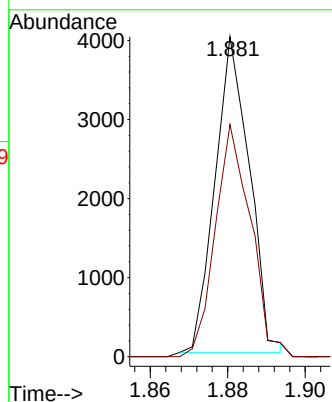
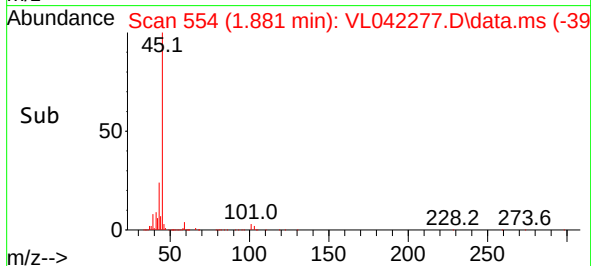
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion:101 Resp: 245
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2

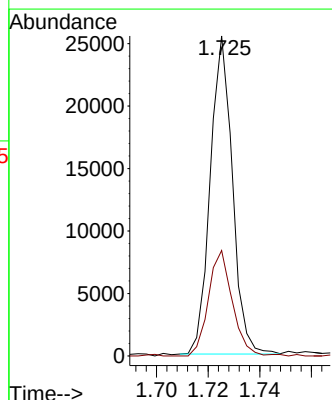
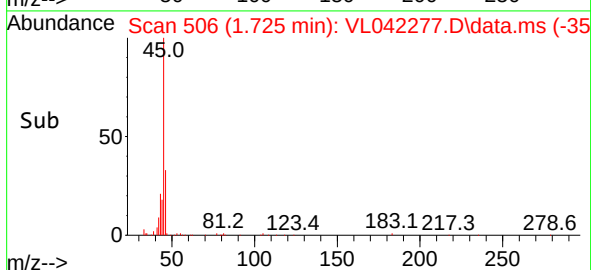
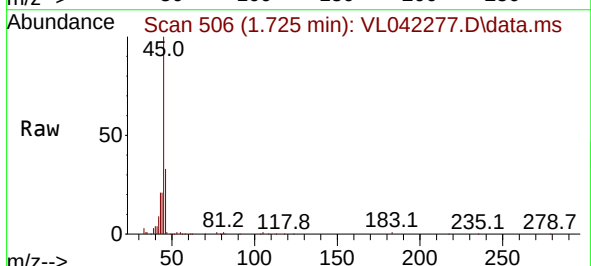
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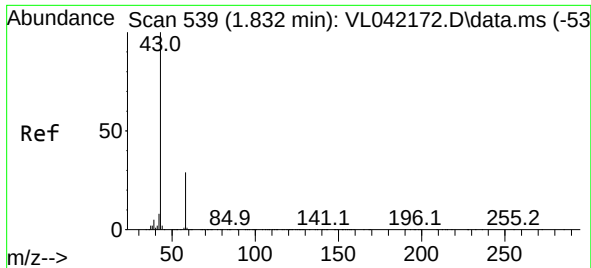
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 14.122 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

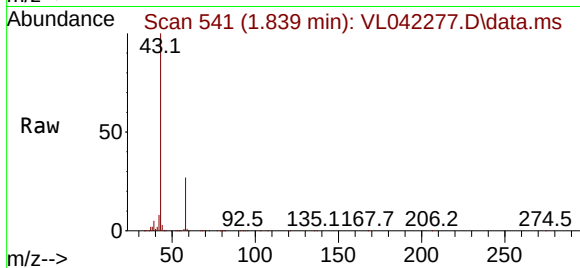
Tgt Ion: 45 Resp: 15149
Ion Ratio Lower Upper
45 100
46 36.3 20.2 80.8





#15
Acetone
Concen: 26.633 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

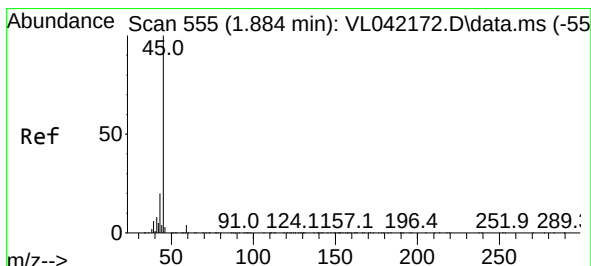
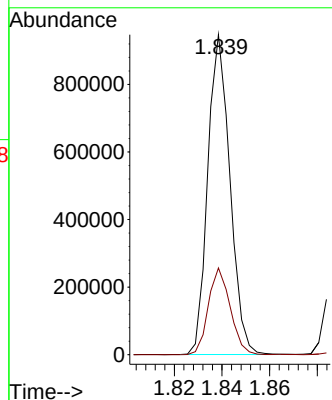
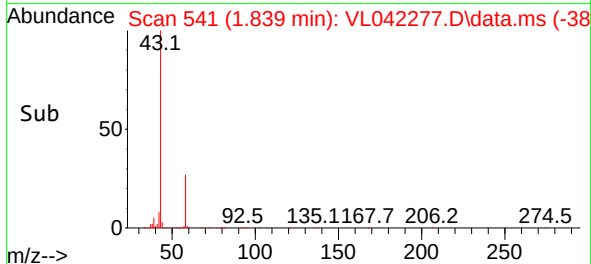
Instrument :
MSVOA_L
ClientSampleId :
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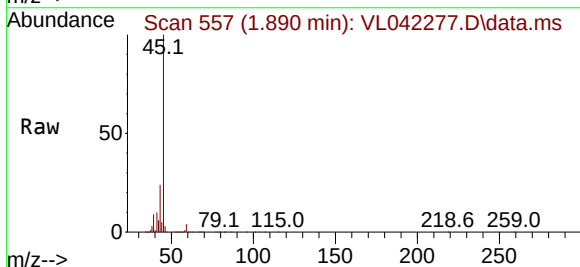
Tgt Ion: 43 Resp: 611384
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

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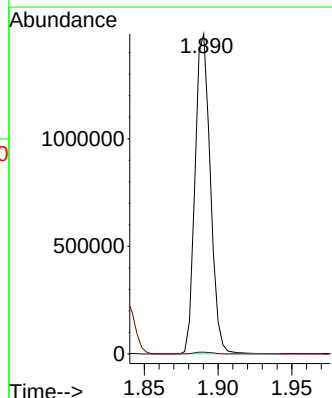
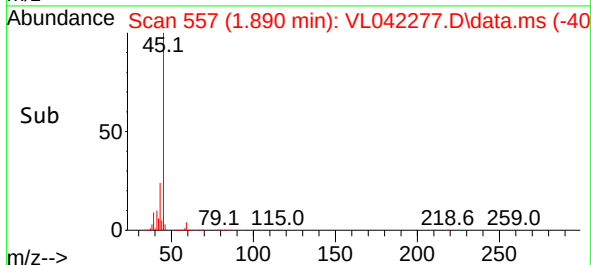
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

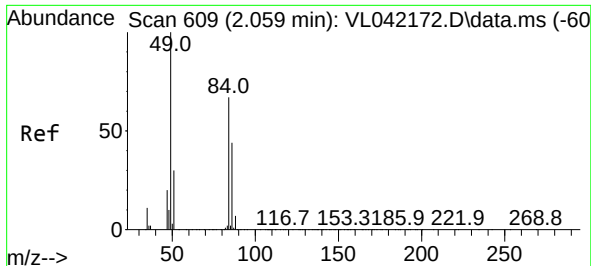


#19
Isopropyl Alcohol
Concen: 82.853 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44



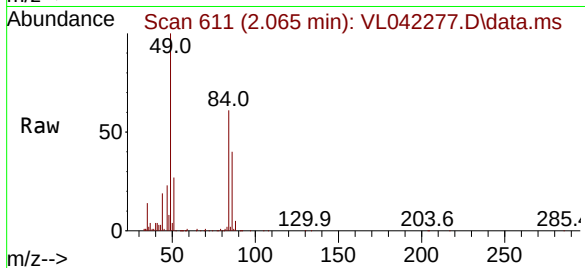
Tgt Ion: 45 Resp: 1073145
Ion Ratio Lower Upper
45 100
58 0.7 36.9 55.3#





#20
Methylene Chloride
Concen: 1.992 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

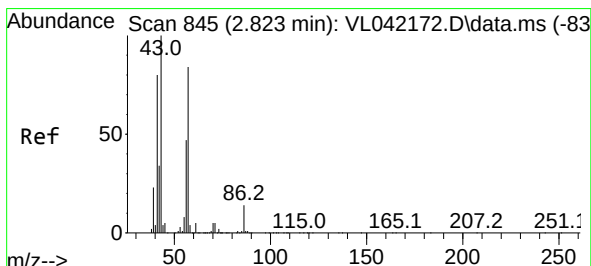
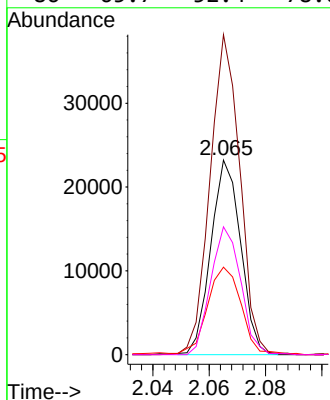
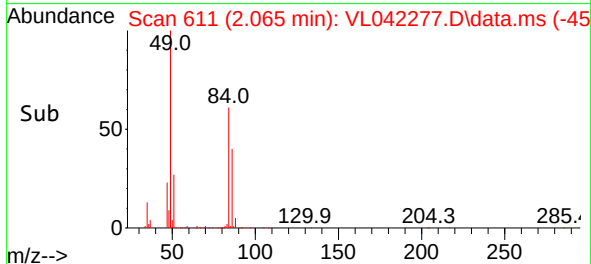
Instrument :
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Tgt Ion: 84 Resp: 17035
Ion Ratio Lower Upper
84 100
49 163.9 120.2 180.4
51 44.4 37.4 56.0
86 65.7 52.4 78.6

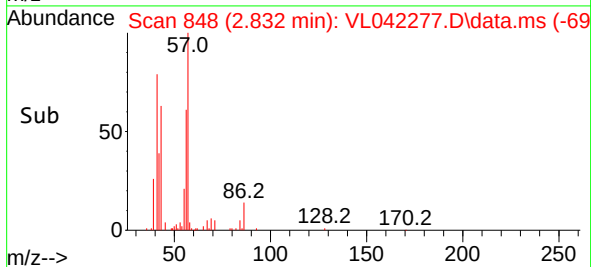
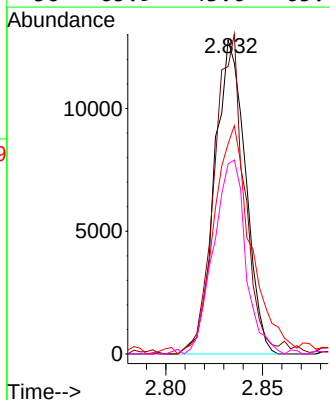
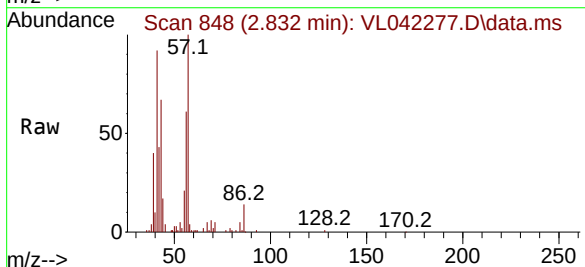
Manual Integrations
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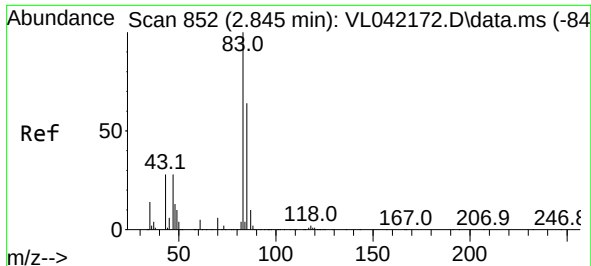
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.618 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 57 Resp: 14226
Ion Ratio Lower Upper
57 100
41 100.1 76.6 114.8
43 92.9 207.8 311.8#
56 65.9 43.6 65.4#





#29

Chloroform

Concen: 0.116 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL042277.D

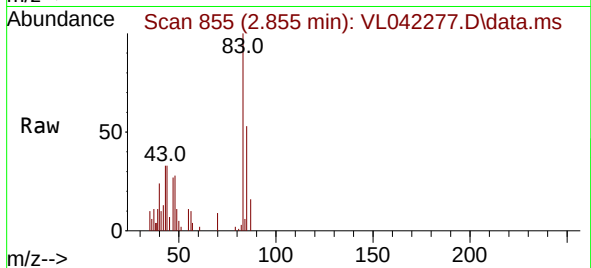
Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

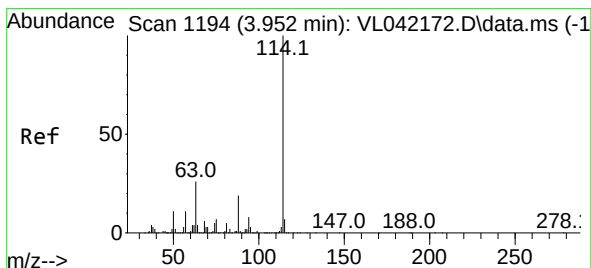
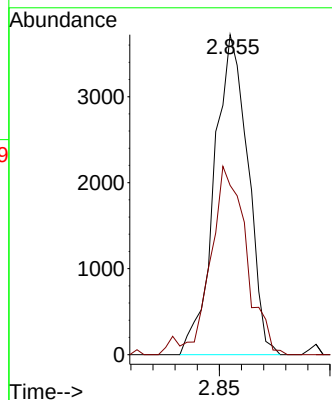
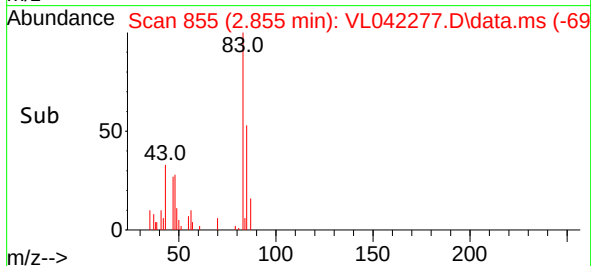


Tgt Ion:	83	Resp:	392
Ion Ratio	Lower	Upper	
83	100		
85	51.5	51.4	77.2

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

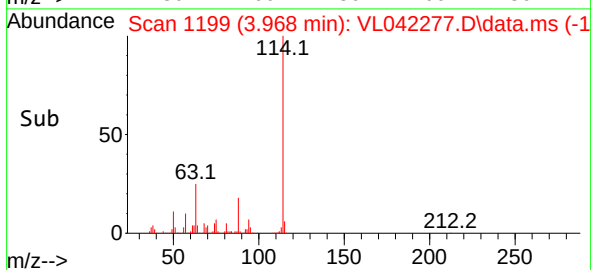
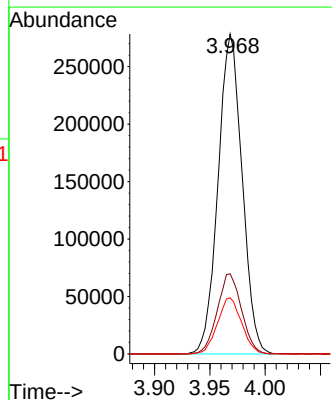
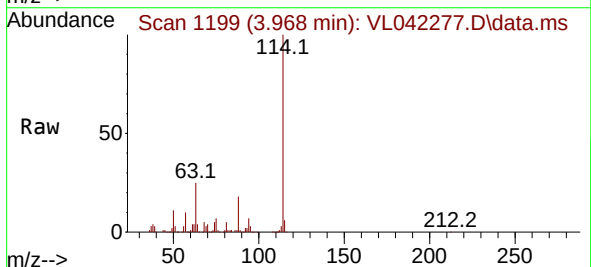
RT: 3.968 min Scan# 1199

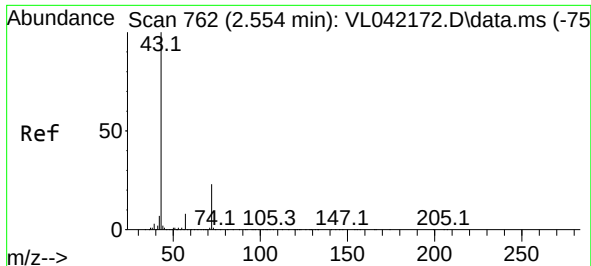
Delta R.T. 0.016 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion:	114	Resp:	421001
Ion Ratio	Lower	Upper	
114	100		
63	25.3	20.7	31.1
88	17.6	15.0	22.4





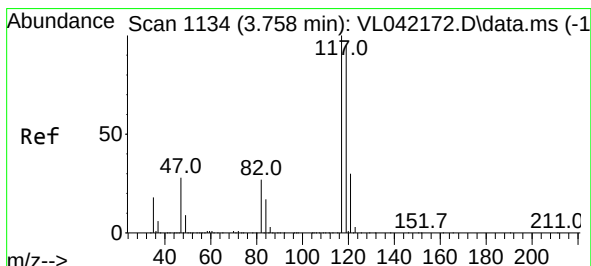
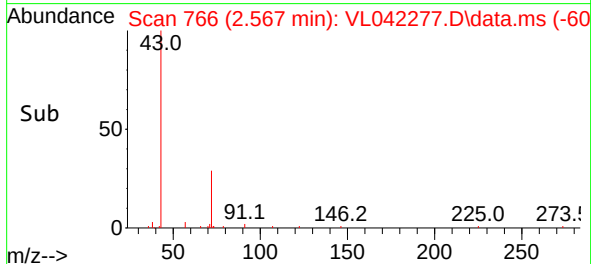
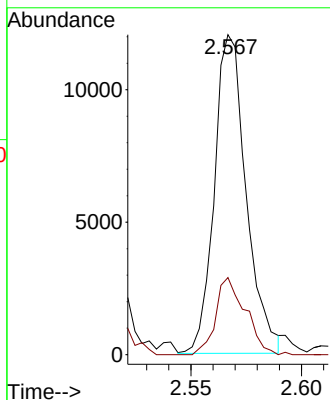
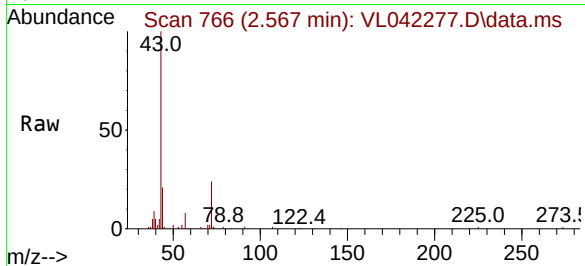
#34
2-Butanone
Concen: 0.394 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 43 Resp: 12029
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2

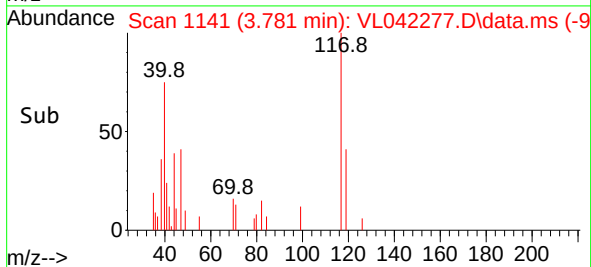
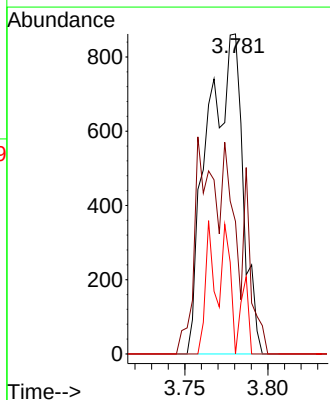
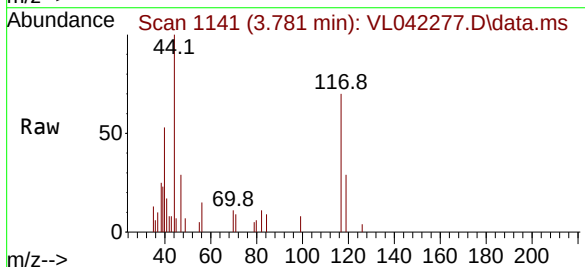
Manual Integrations
APPROVED

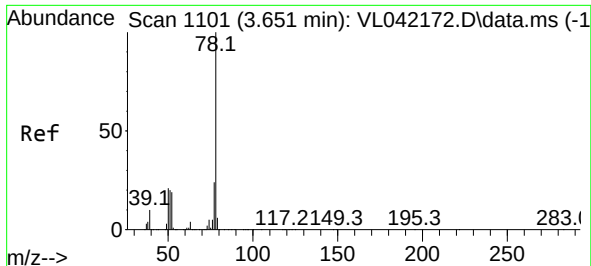
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.039 ppbv m
RT: 3.781 min Scan# 1141
Delta R.T. 0.022 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

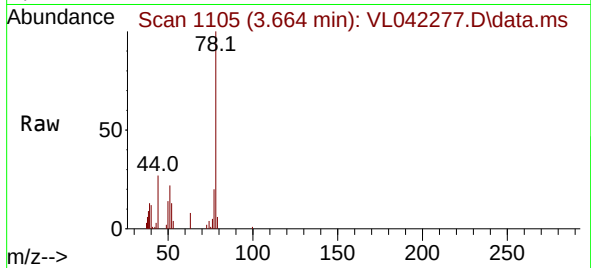
Tgt Ion:117 Resp: 1268
Ion Ratio Lower Upper
117 100
119 41.4 76.2 114.2#
121 0.0 24.2 36.4#





#36
Benzene
Concen: 0.161 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

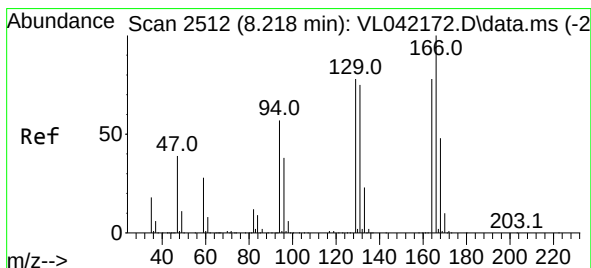
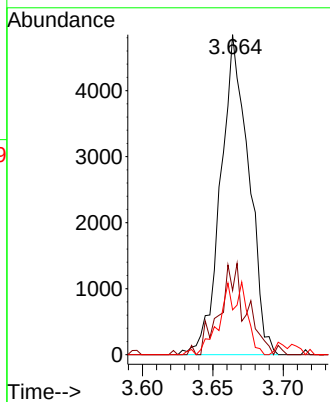
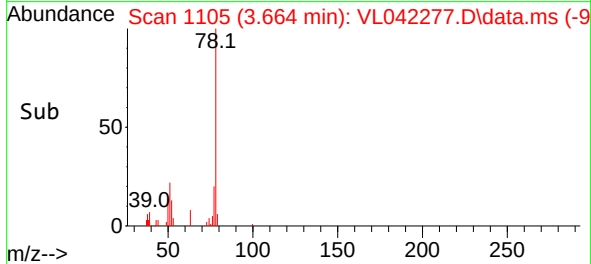
Instrument : MSVOA_L
ClientSampleId : SSSG-B14-2-04012025



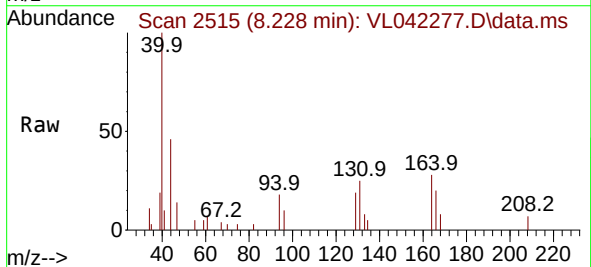
Tgt Ion: 78 Resp: 6732
Ion Ratio Lower Upper
78 100
77 20.1 19.1 28.7
50 14.0 16.6 24.8

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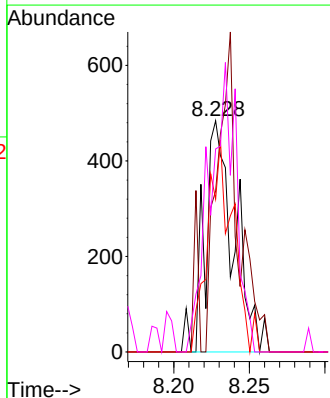
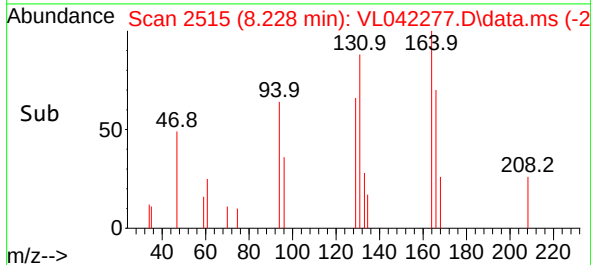
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

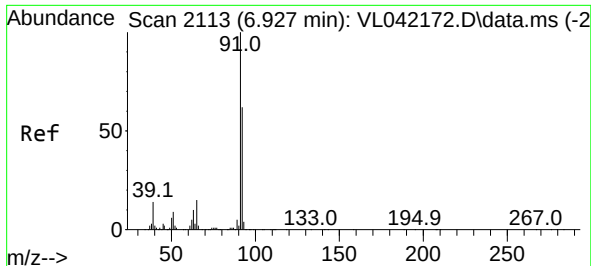


#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44



Tgt Ion:164 Resp: 648
Ion Ratio Lower Upper
164 100
166 69.6 102.5 153.7#
129 66.1 79.8 119.8#
131 87.8 76.6 114.8





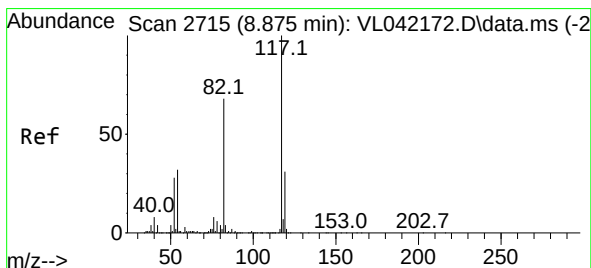
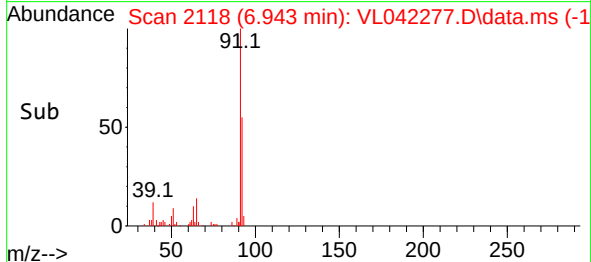
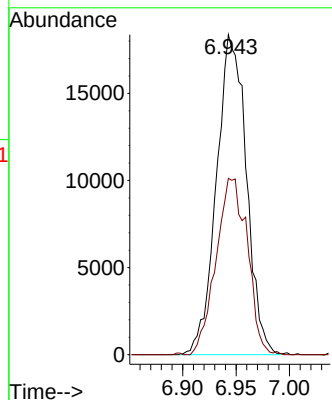
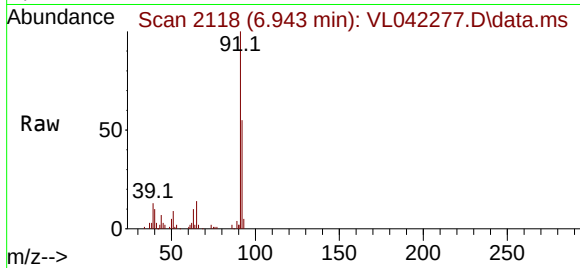
#53
Toluene
Concen: 0.722 ppbv
RT: 6.943 min Scan# 2113
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 91 Resp: 35710
Ion Ratio Lower Upper
91 100
92 57.9 48.4 72.6

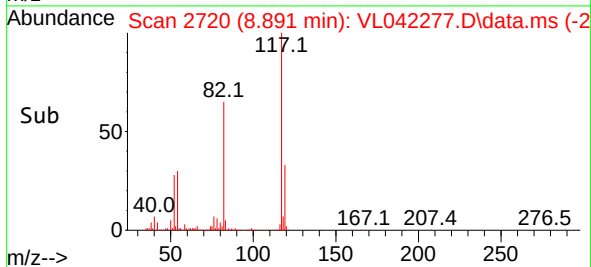
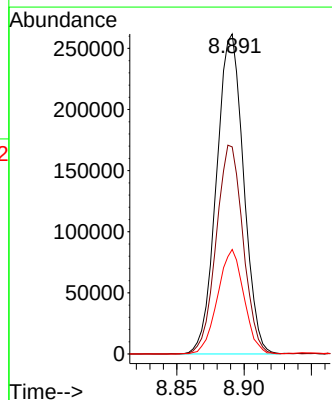
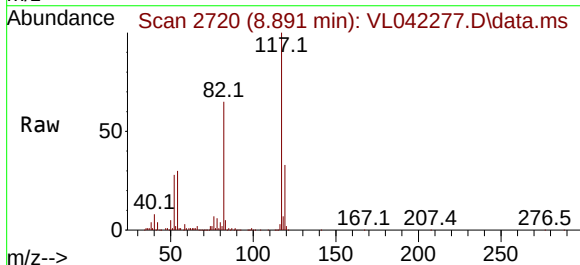
Manual Integrations
APPROVED

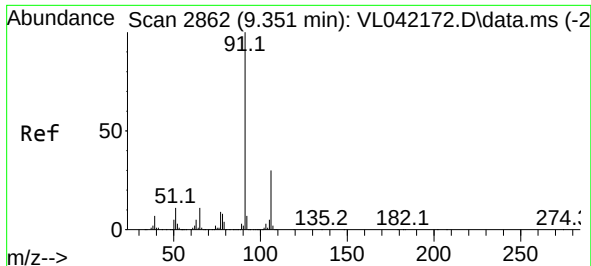
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:117 Resp: 366383
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.8 25.5 38.3





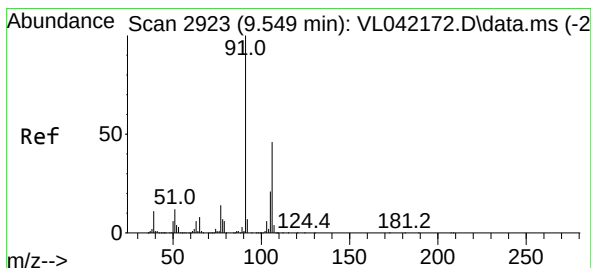
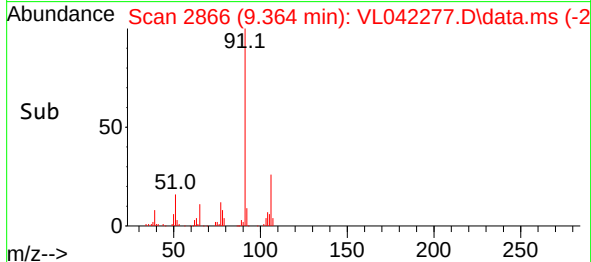
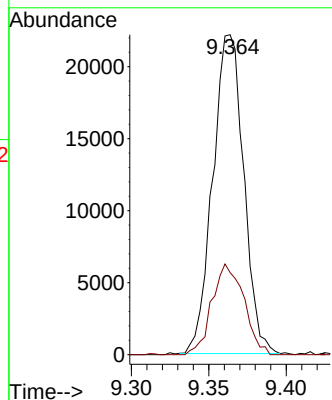
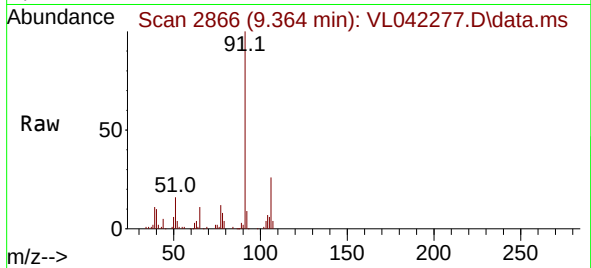
#58
Ethyl Benzene
Concen: 0.473 ppbv
RT: 9.364 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 91 Resp: 3079
Ion Ratio Lower Upper
91 100
106 25.7 24.2 36.2

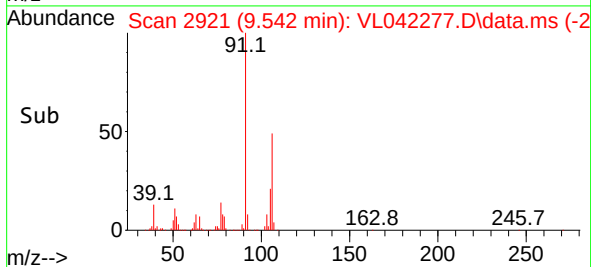
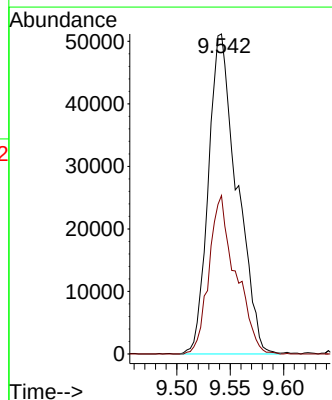
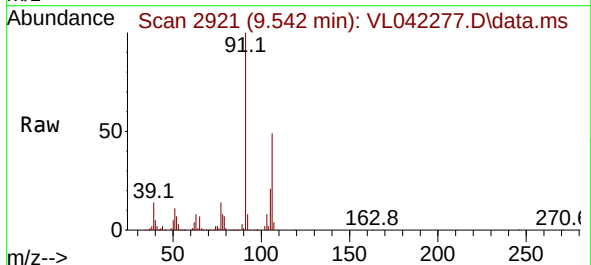
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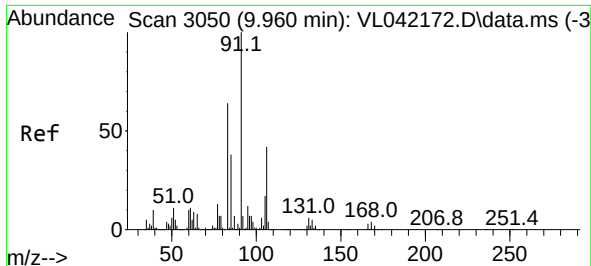
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 1.835 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

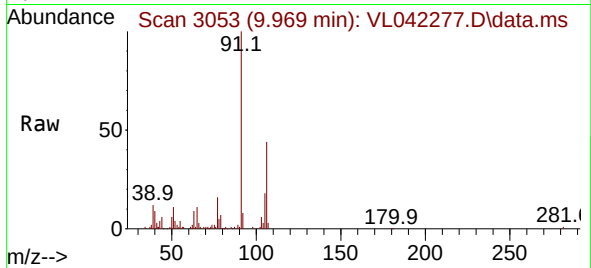
Tgt Ion: 91 Resp: 95378
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6





#60
o-Xylene
Concen: 0.428 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

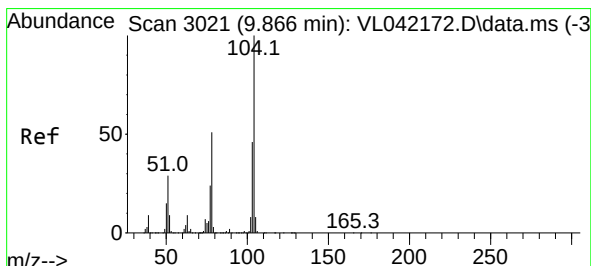
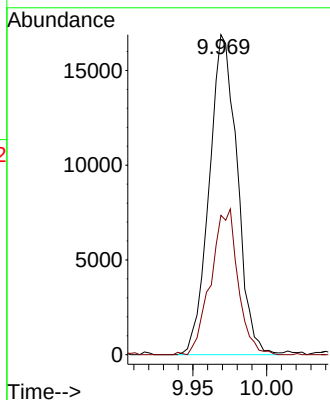
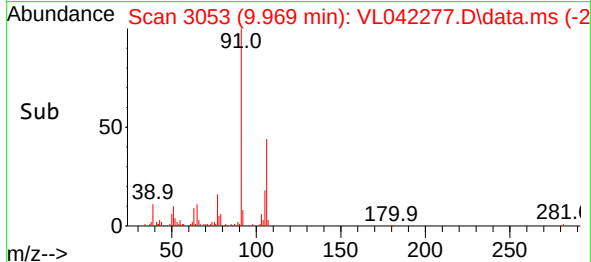
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 91 Resp: 2227
Ion Ratio Lower Upper
91 100
106 44.2 20.8 62.5

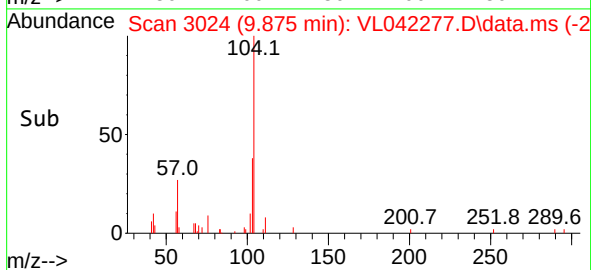
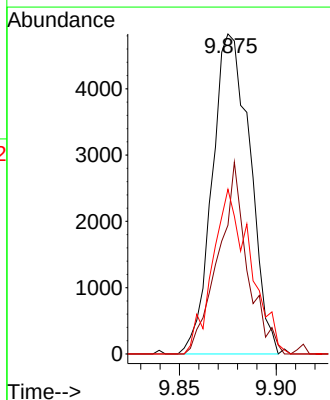
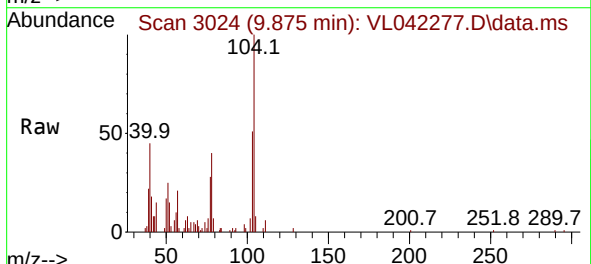
Manual Integrations
APPROVED

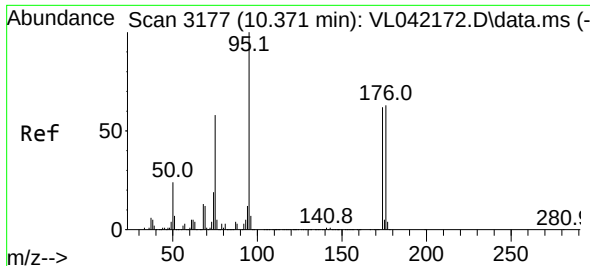
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.254 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

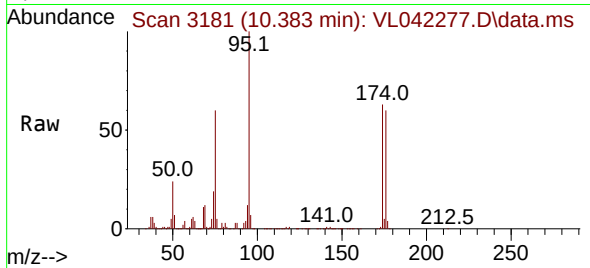
Tgt Ion:104 Resp: 6538
Ion Ratio Lower Upper
104 100
78 46.9 41.8 62.6
103 51.9 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.629 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

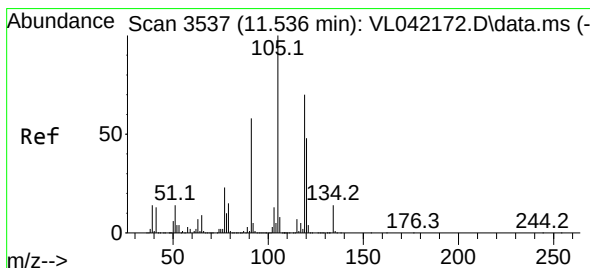
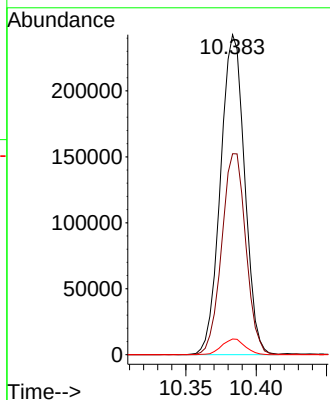
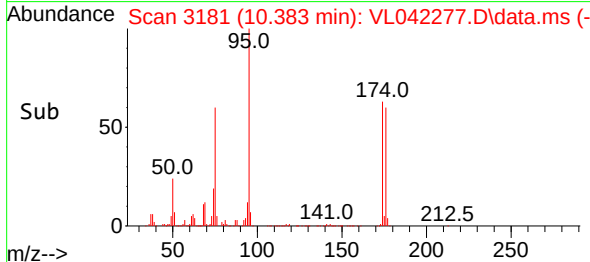
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 95 Resp: 28970
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
APPROVED

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



#74
1,2,4-Trimethylbenzene
Concen: 0.167 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:105 Resp: 10923
Ion Ratio Lower Upper
105 100
120 45.9 38.6 58.0
91 9.9 46.2 69.2#
77 14.0 18.6 27.8#

