

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042274.D
 Acq On : 08 Apr 2025 22:11
 Operator : SY/MD
 Sample : Q1728-11 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

Manual Integrations
 APPROVED

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

Quant Time: Apr 09 02:00:57 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	2.790	49	156372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398763	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	359554	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	281110	9.520	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5004	0.217	ppbv	89
3) Chlorodifluoromethane	1.479	51	3527m	0.150	ppbv	
9) Propene	1.489	41	1785	0.165	ppbv	94
11) Trichlorofluoromethane	1.878	101	2380m	0.106	ppbv	
13) Ethanol	1.722	45	11416	11.170	ppbv	83
15) Acetone	1.839	43	128185	5.861	ppbv	95
17) tert-Butyl alcohol	2.046	59	3888	0.143	ppbv	99
19) Isopropyl Alcohol	1.890	45	17157	1.390	ppbv #	1
20) Methylene Chloride	2.065	84	2710	0.333	ppbv #	93
26) Hexane	2.829	57	4605	0.210	ppbv #	40
29) Chloroform	2.852	83	9004	0.281	ppbv	97
34) 2-Butanone	2.570	43	5858	0.203	ppbv	98
35) Carbon Tetrachloride	3.761	117	2346m	0.075	ppbv	
36) Benzene	3.658	78	5637	0.143	ppbv #	90
38) Trichloroethene	4.557	130	1670m	0.101	ppbv	
50) 4-Methyl-2-Pentanone	5.781	43	4724m	0.103	ppbv	
52) Tetrachloroethene	8.225	164	2269m	0.145	ppbv	
53) Toluene	6.940	91	34973	0.746	ppbv	99
58) Ethyl Benzene	9.364	91	10002	0.157	ppbv	97
59) m/p-Xylene	9.535	91	32175	0.631	ppbv	100
60) o-Xylene	9.969	91	13256	0.259	ppbv	98
61) Styrene	9.872	104	7023m	0.278	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	9995	0.156	ppbv #	61

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

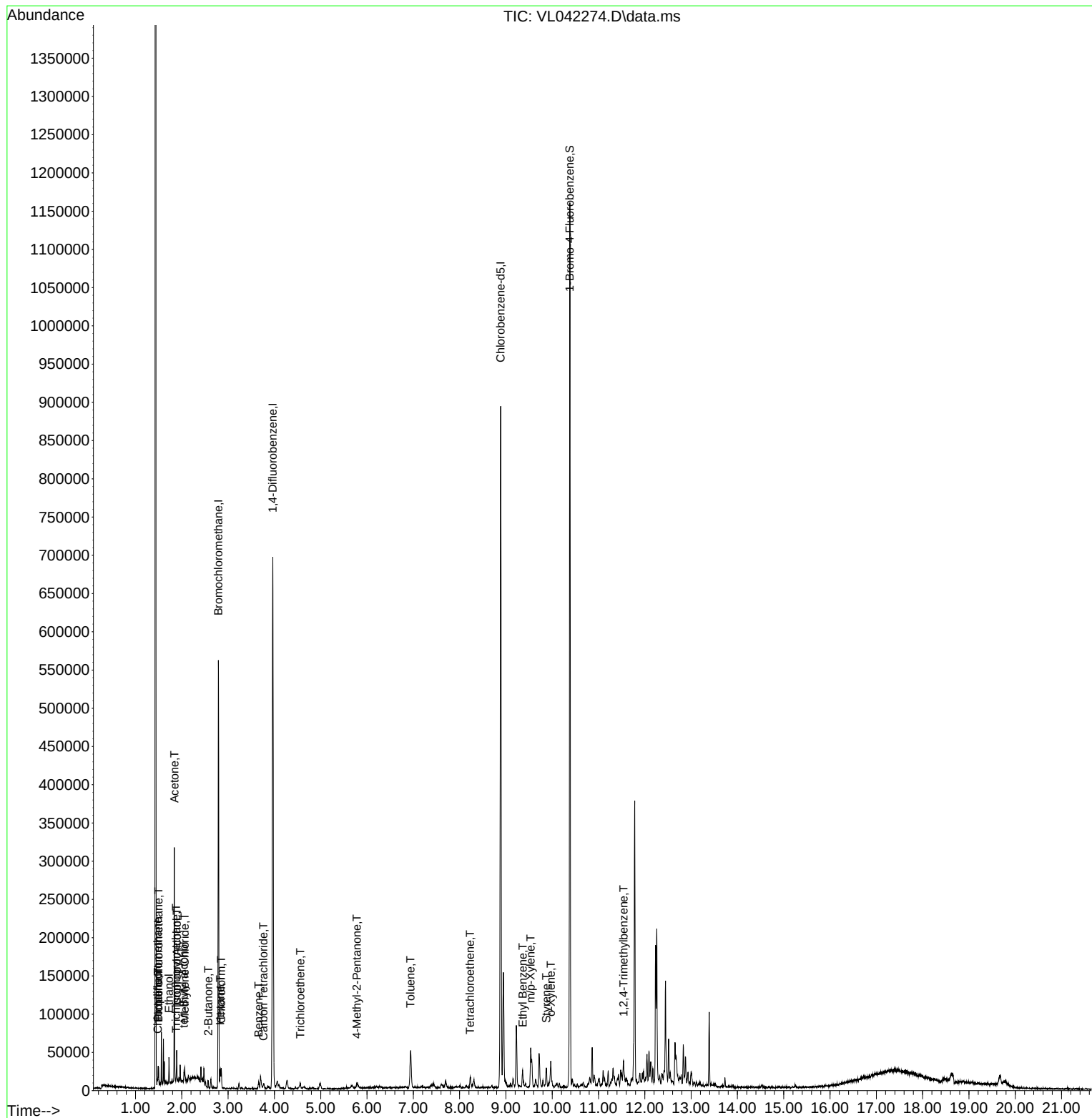
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
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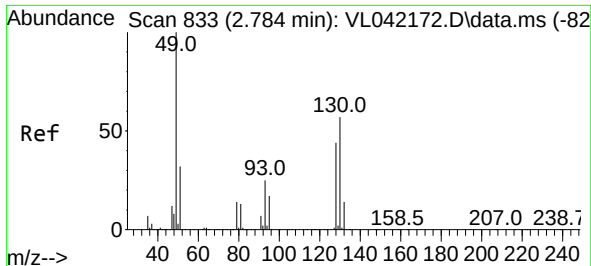
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

Quant Time: Apr 09 02:00:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

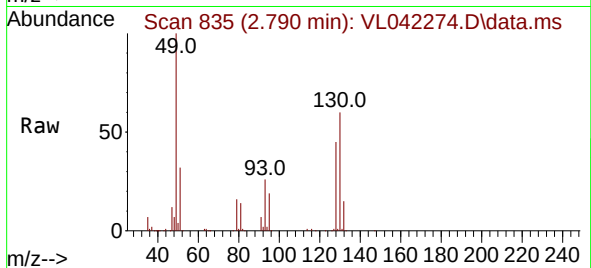
Reviewed By : Mahesh Dadoda 04/09/2025
Supervised By : Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

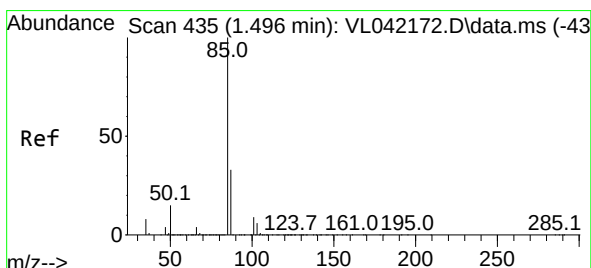
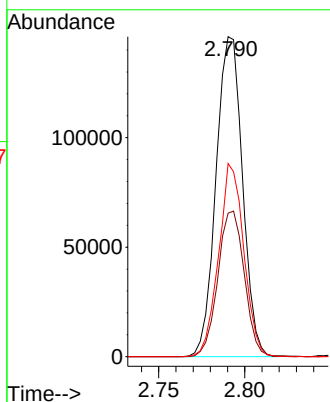
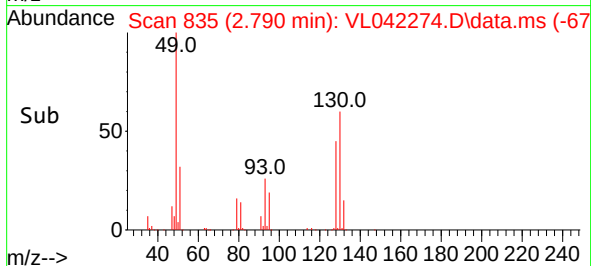
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion: 49 Resp: 156372
Ion Ratio Lower Upper
49 100
128 45.5 22.9 68.5
130 57.4 28.8 86.4

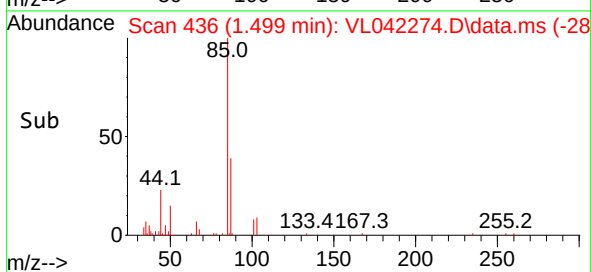
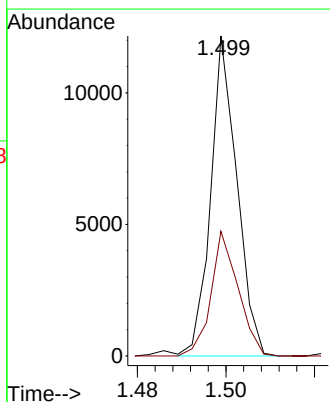
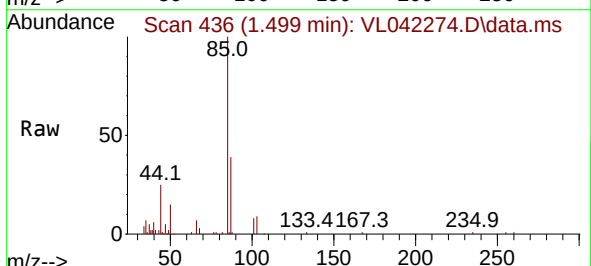
Manual Integrations
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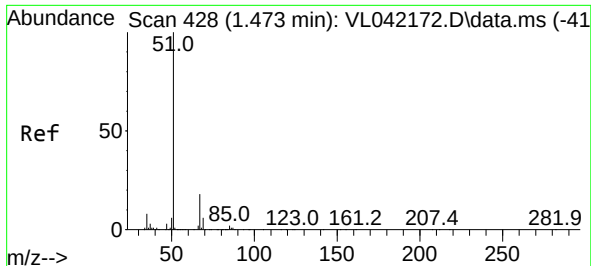
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.217 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

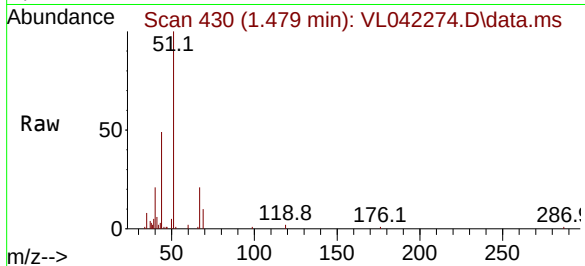
Tgt Ion: 85 Resp: 5004
Ion Ratio Lower Upper
85 100
87 38.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.150 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

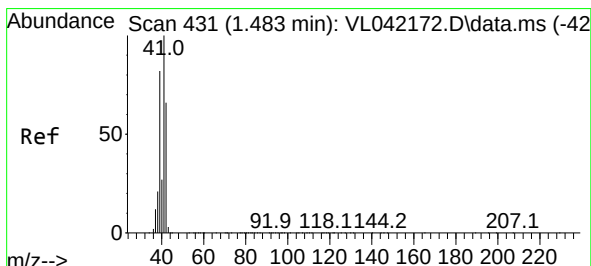
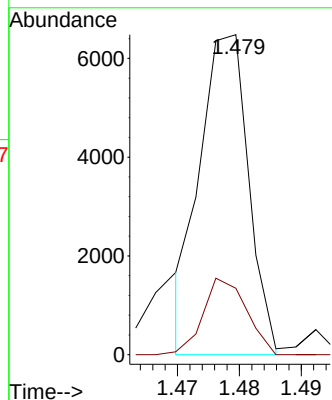
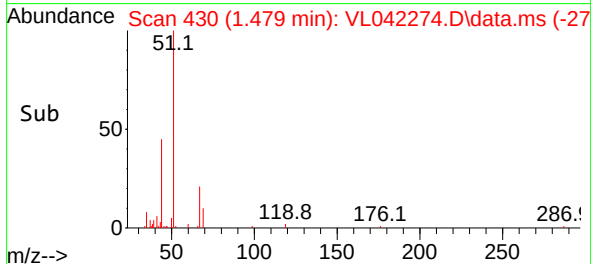
Instrument :
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ClientSampleId :
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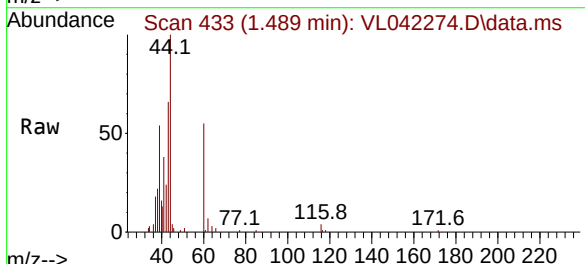
Tgt Ion: 51 Resp: 352
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

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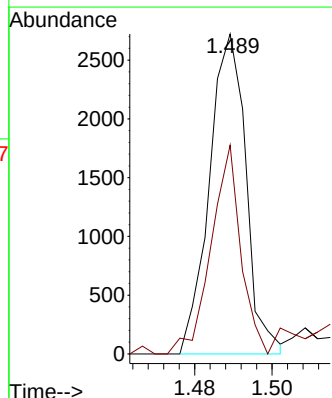
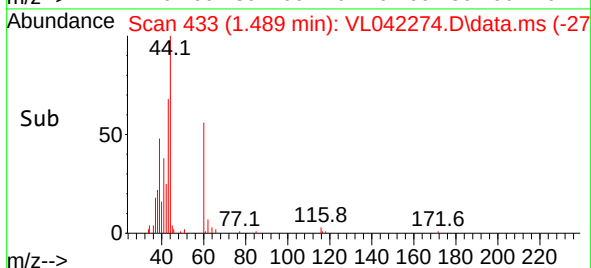
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

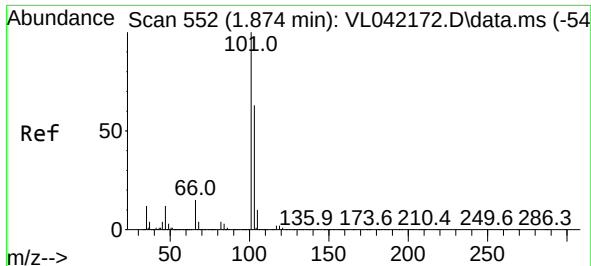


#9
Propene
Concen: 0.165 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



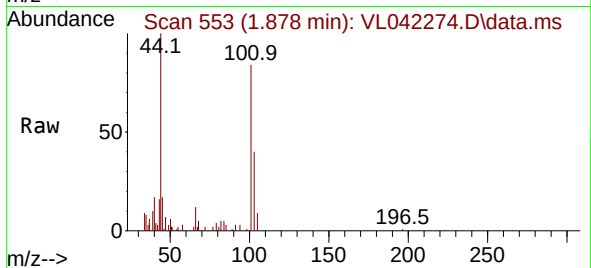
Tgt Ion: 41 Resp: 1785
Ion Ratio Lower Upper
41 100
42 64.8 55.4 83.2





#11
Trichlorofluoromethane
Concen: 0.106 ppbv m
RT: 1.878 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

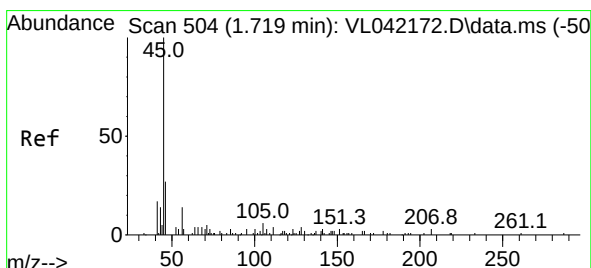
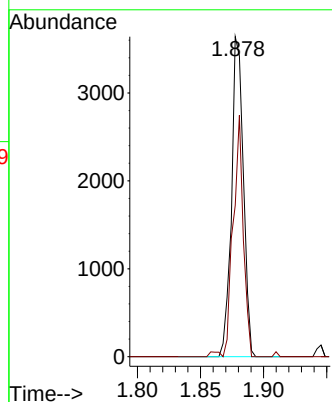
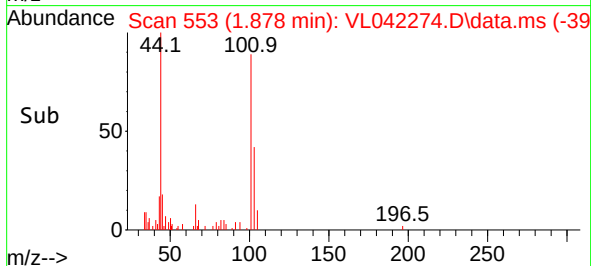
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:101 Resp: 2380
Ion Ratio Lower Upper
101 100
103 47.3 50.2 75.2

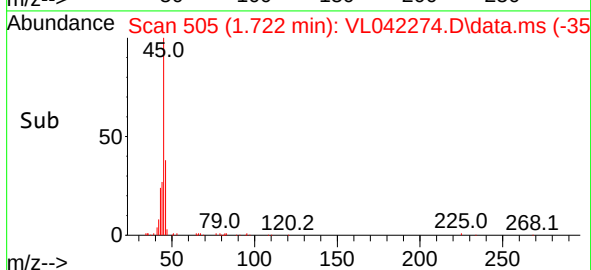
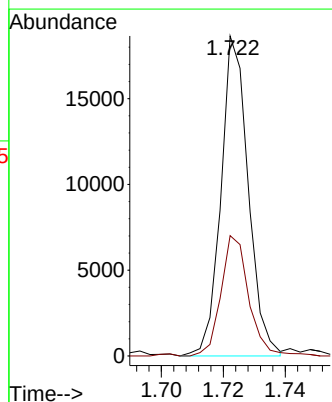
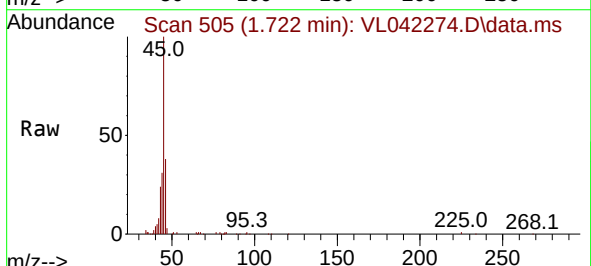
Manual Integrations
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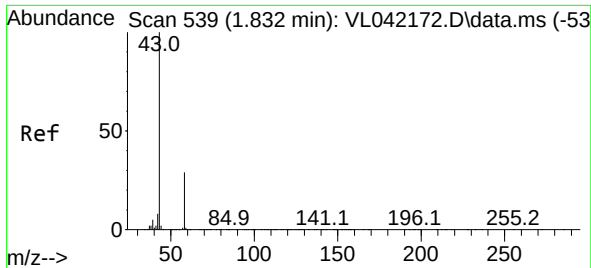
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 11.170 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

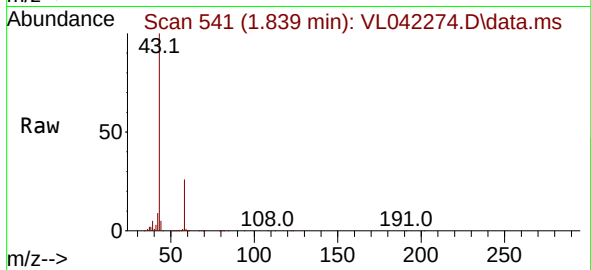
Tgt Ion: 45 Resp: 11416
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8





#15
Acetone
Concen: 5.861 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

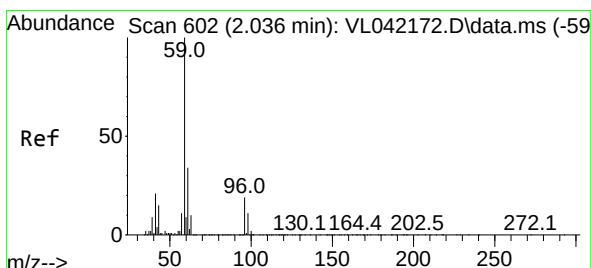
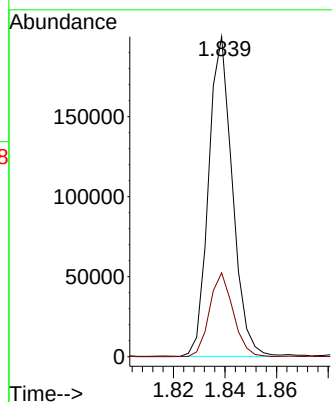
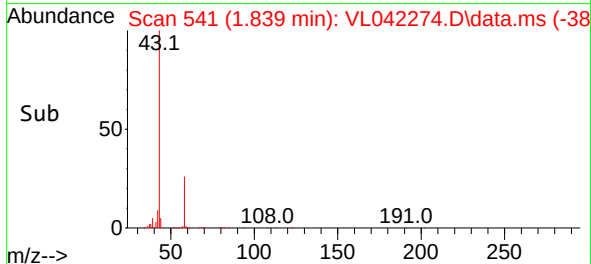
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion: 43 Resp: 12818
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8

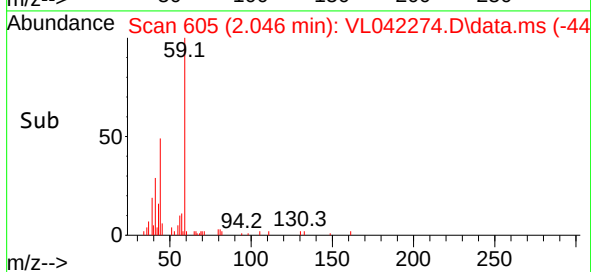
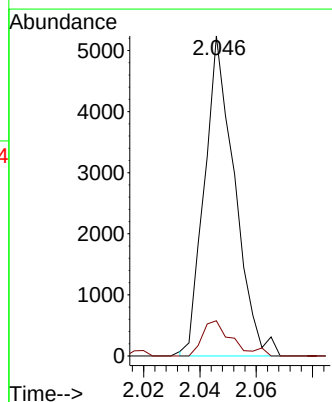
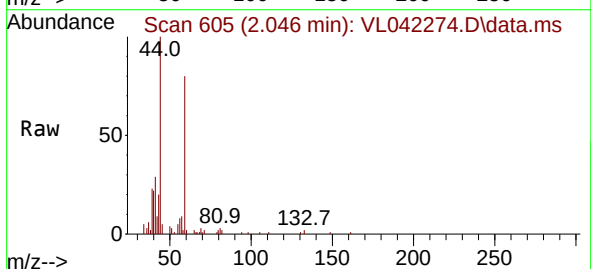
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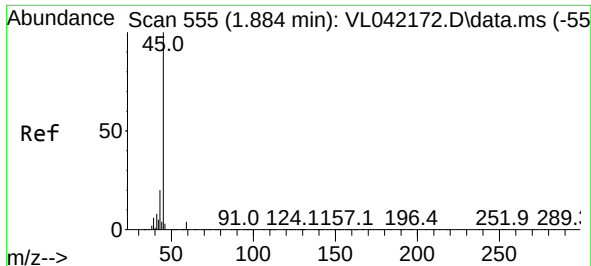
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#17
tert-Butyl alcohol
Concen: 0.143 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

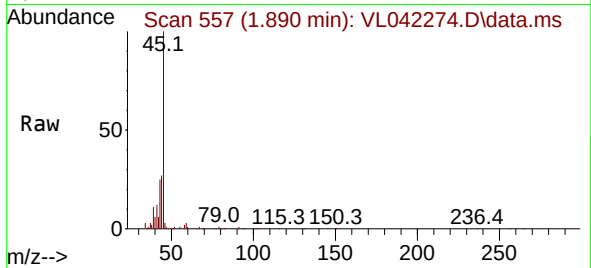
Tgt Ion: 59 Resp: 3888
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3





#19
Isopropyl Alcohol
Concen: 1.390 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

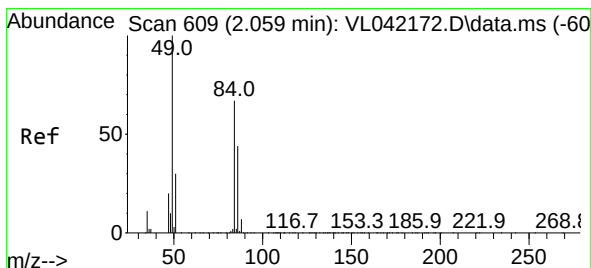
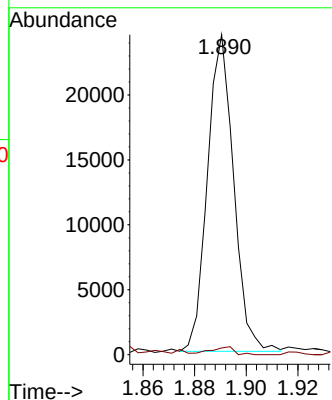
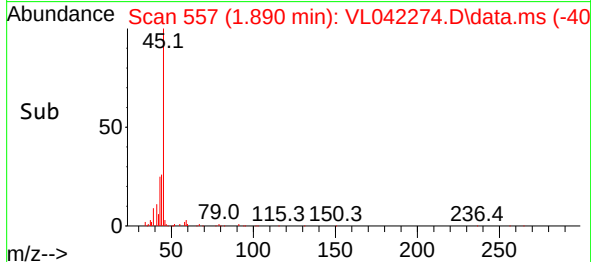
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



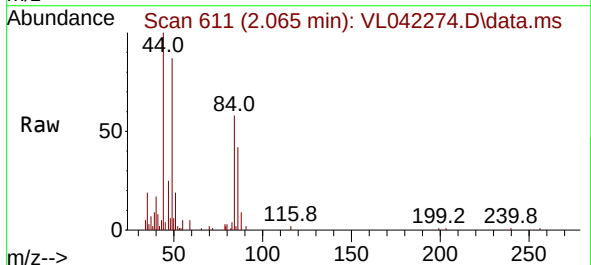
Tgt Ion: 45 Resp: 1715
Ion Ratio Lower Upper
45 100
58 198.0 36.9 55.3

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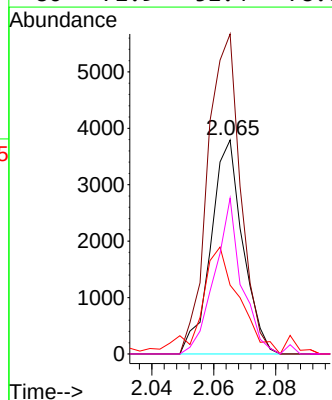
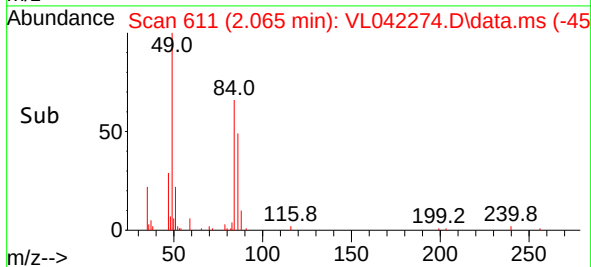
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

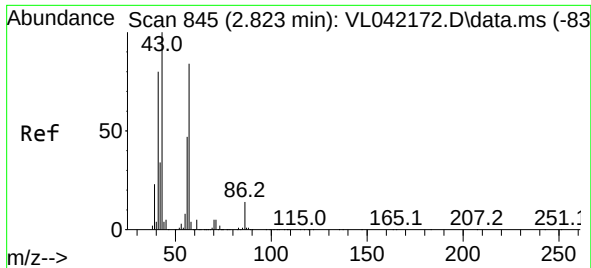


#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



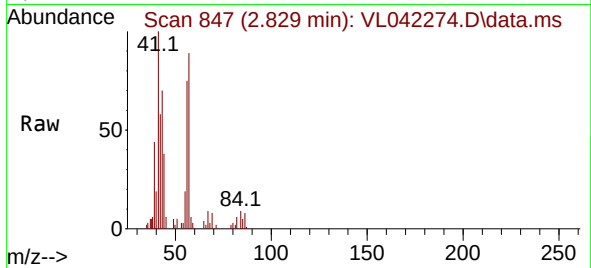
Tgt Ion: 84 Resp: 2710
Ion Ratio Lower Upper
84 100
49 149.6 120.2 180.4
51 32.2 37.4 56.0#
86 72.9 52.4 78.6





#26
Hexane
Concen: 0.210 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

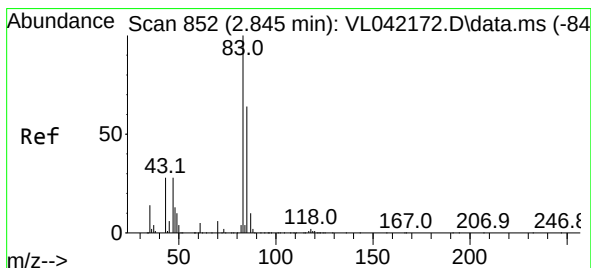
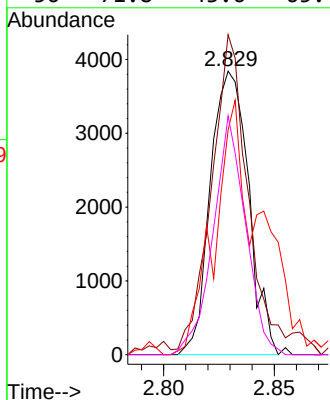
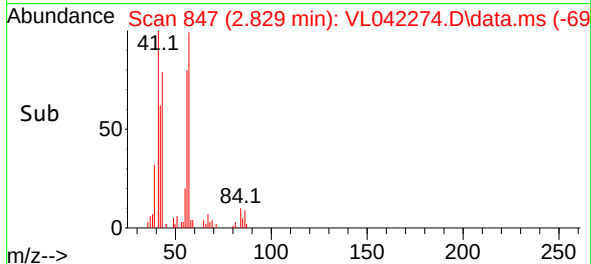
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion: 57 Resp: 460
Ion Ratio Lower Upper
57 100
41 114.7 76.6 114.8
43 112.7 207.8 311.8
56 71.8 43.6 65.4#

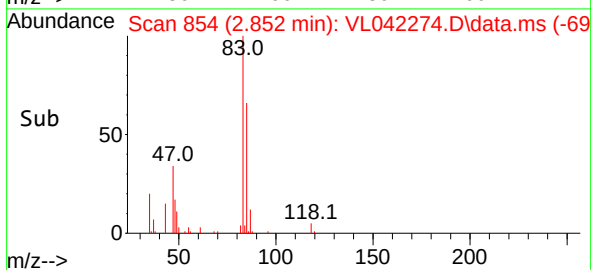
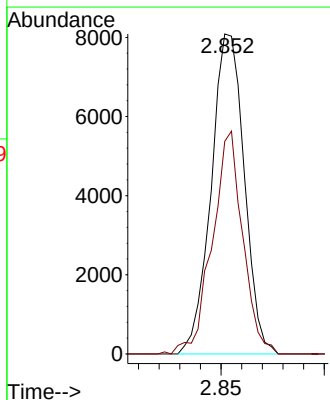
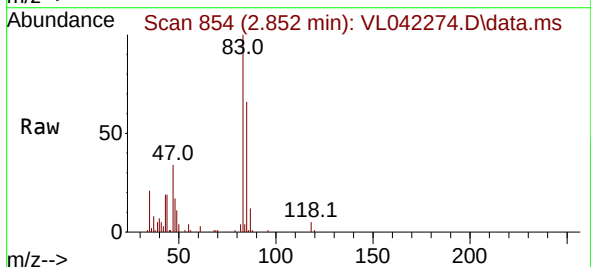
Manual Integrations
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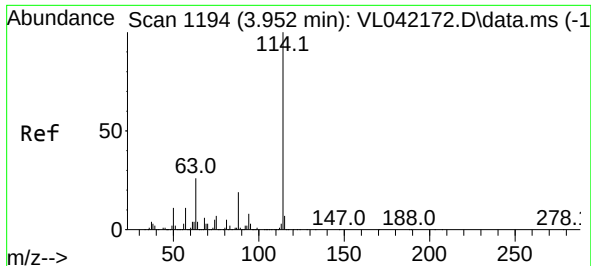
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#29
Chloroform
Concen: 0.281 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 83 Resp: 9004
Ion Ratio Lower Upper
83 100
85 66.5 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1194

Delta R.T. 0.013 min

Lab File: VL042274.D

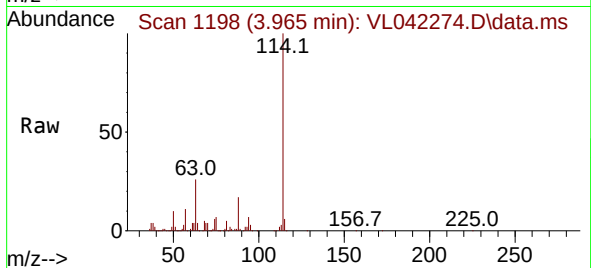
Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-4-04012025



Tgt Ion:114 Resp: 39876

Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

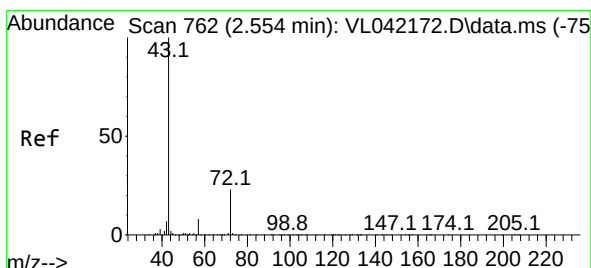
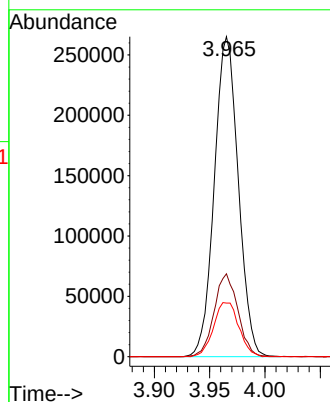
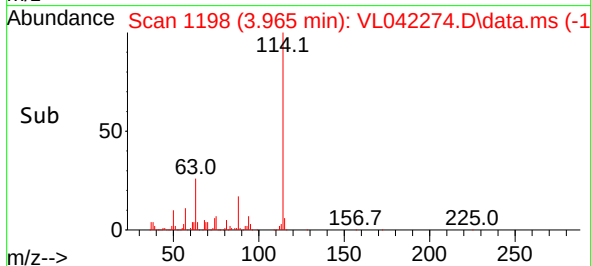
88 18.0 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

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#34

2-Butanone

Concen: 0.203 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042274.D

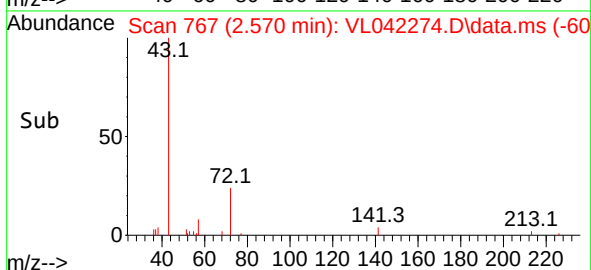
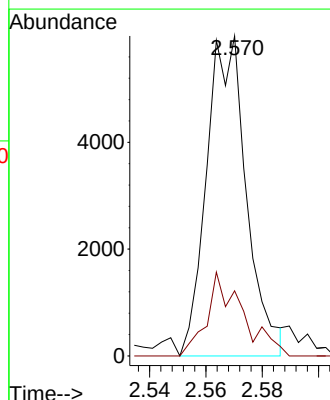
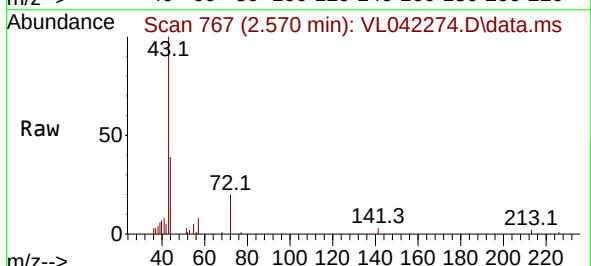
Acq: 08 Apr 2025 22:11

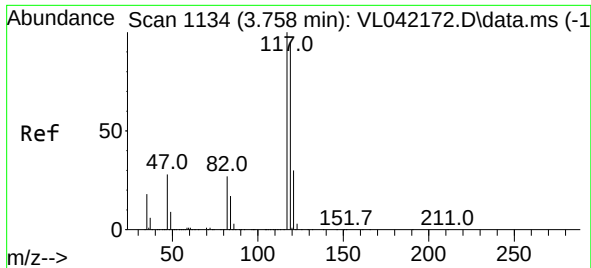
Tgt Ion: 43 Resp: 5858

Ion Ratio Lower Upper

43 100

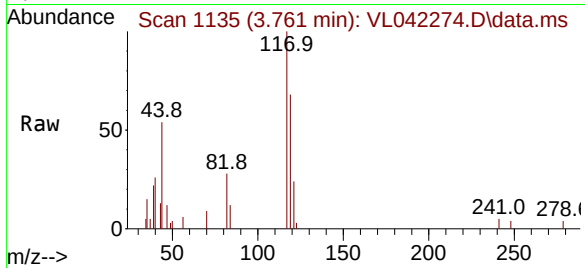
72 23.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

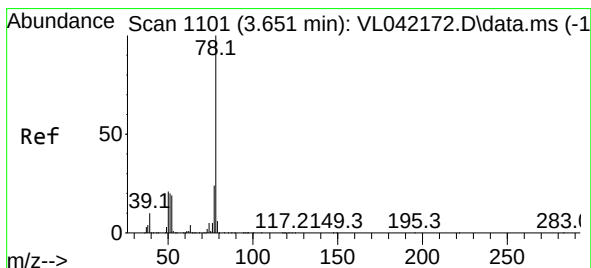
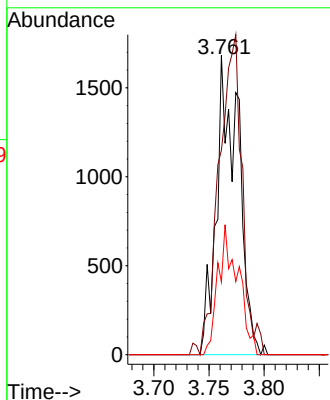
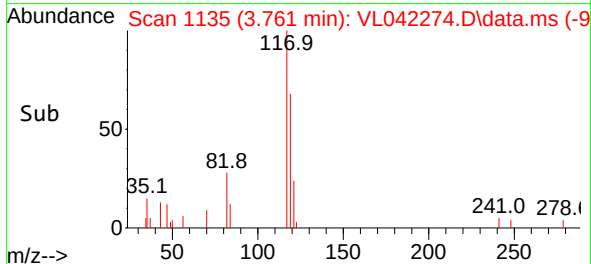
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-4-04012025



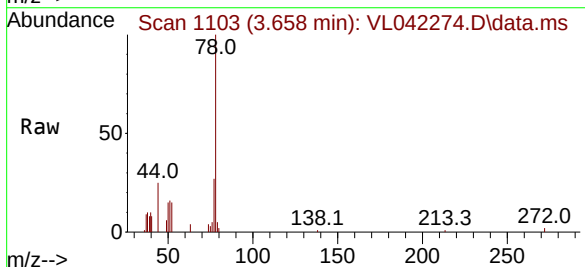
Tgt Ion: 117 Resp: 2340
Ion Ratio Lower Upper
117 100
119 68.3 76.2 114.2
121 24.3 24.2 36.4

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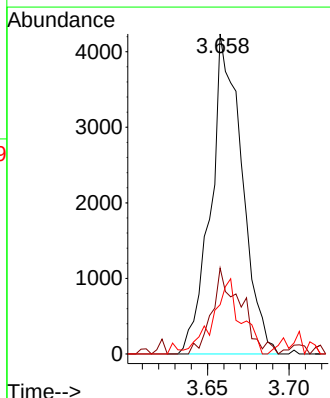
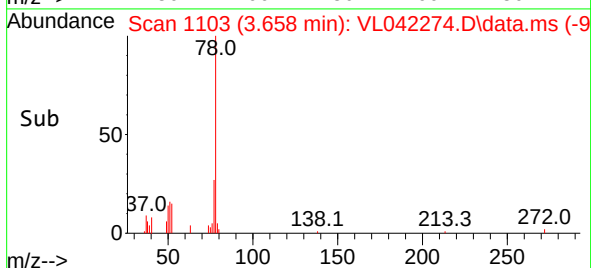
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

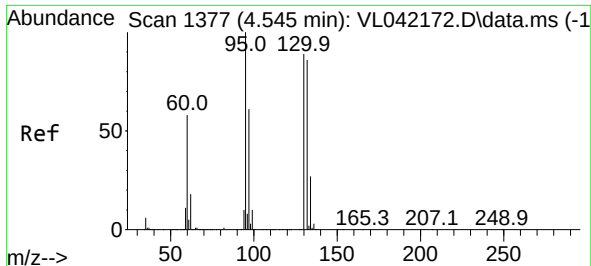


#36
Benzene
Concen: 0.143 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



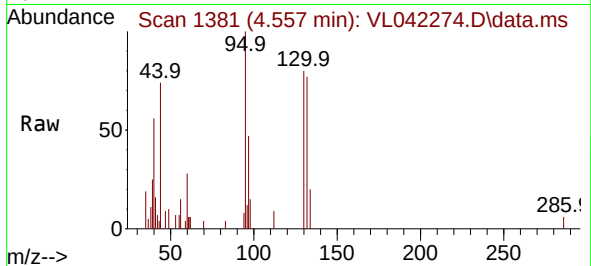
Tgt Ion: 78 Resp: 5637
Ion Ratio Lower Upper
78 100
77 26.8 19.1 28.7
50 14.1 16.6 24.8#





#38
 Trichloroethene
 Concen: 0.101 ppbv m
 RT: 4.557 min Scan# 1377
 Delta R.T. 0.013 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

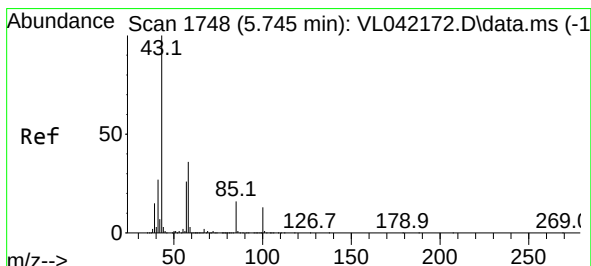
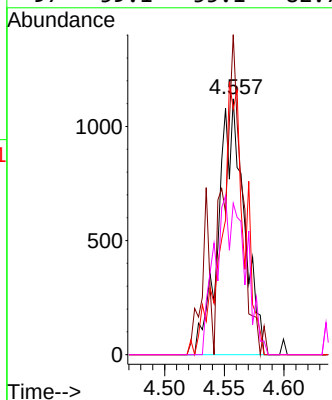
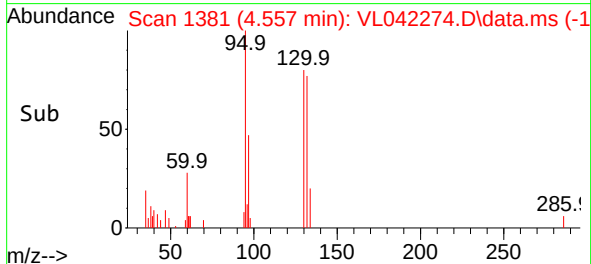
Instrument : MSVOA_L
 ClientSampleId : SSSG-B1-4-04012025



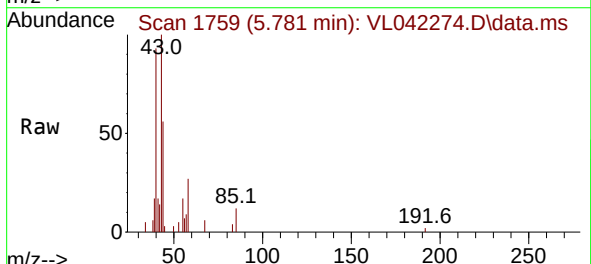
Tgt Ion:130 Resp: 1670
 Ion Ratio Lower Upper
 130 100
 95 125.1 89.8 134.8
 132 96.0 77.4 116.2
 97 59.1 55.1 82.7

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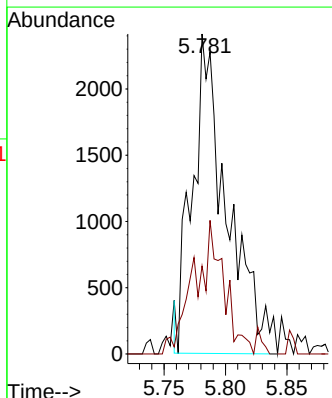
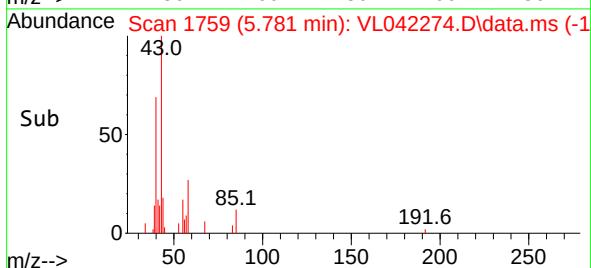
Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

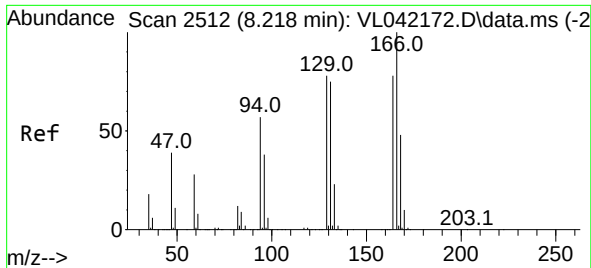


#50
 4-Methyl-2-Pentanone
 Concen: 0.103 ppbv m
 RT: 5.781 min Scan# 1759
 Delta R.T. 0.035 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11



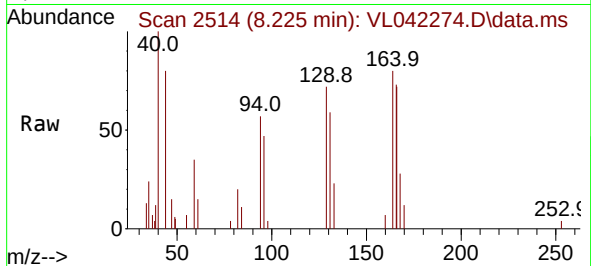
Tgt Ion: 43 Resp: 4724
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.0 43.6#





#52
Tetrachloroethene
Concen: 0.145 ppbv m
RT: 8.225 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

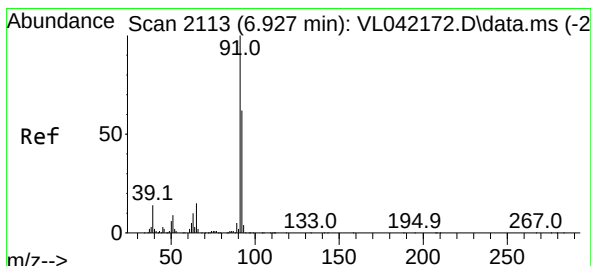
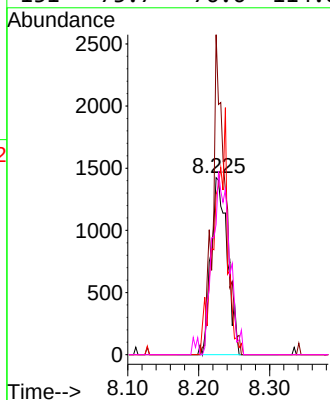
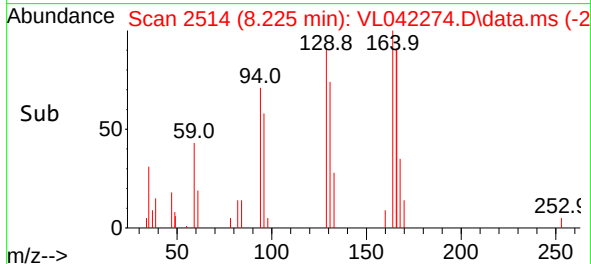
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:164 Resp: 2269
Ion Ratio Lower Upper
164 100
166 90.7 102.5 153.7
129 90.5 79.8 119.8
131 73.7 76.6 114.8#

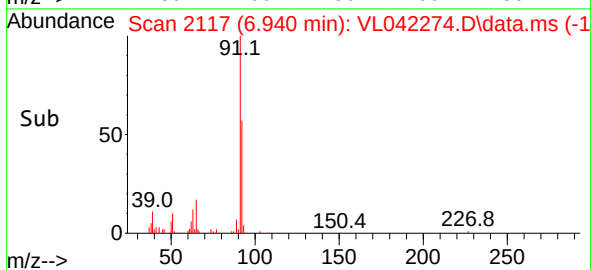
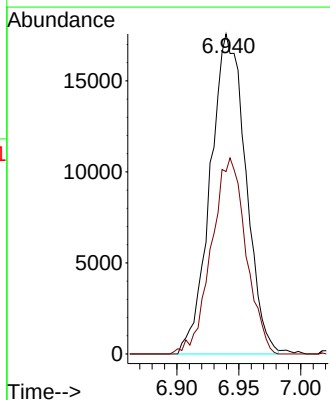
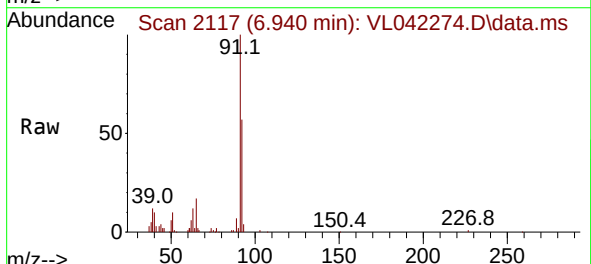
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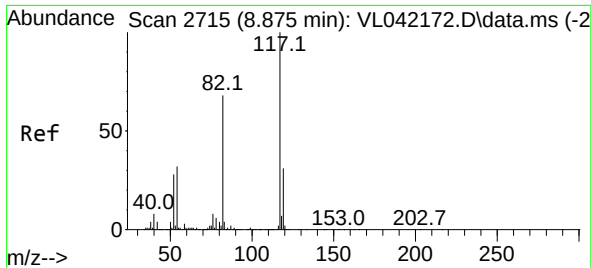
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.746 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

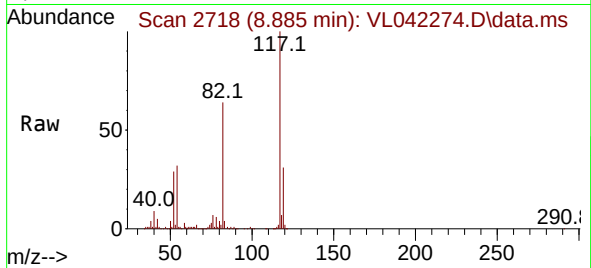
Tgt Ion: 91 Resp: 34973
Ion Ratio Lower Upper
91 100
92 59.7 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

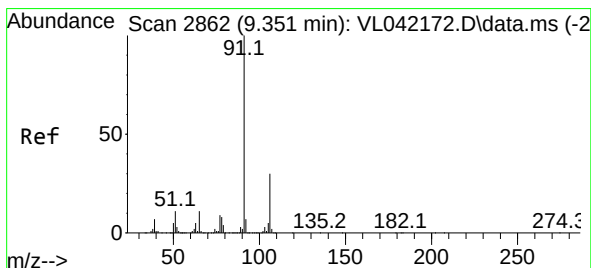
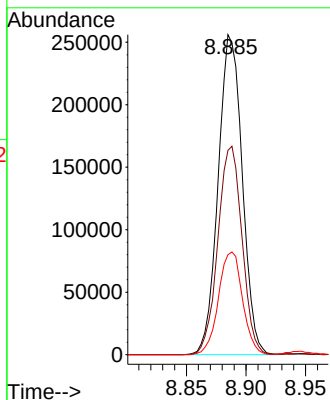
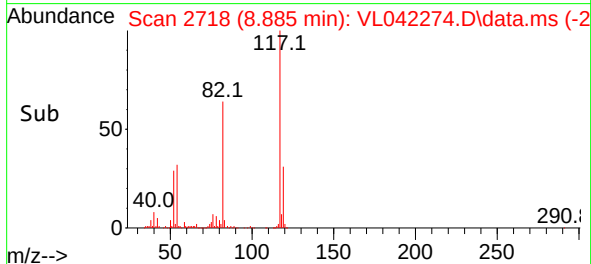
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:117 Resp: 359554
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3

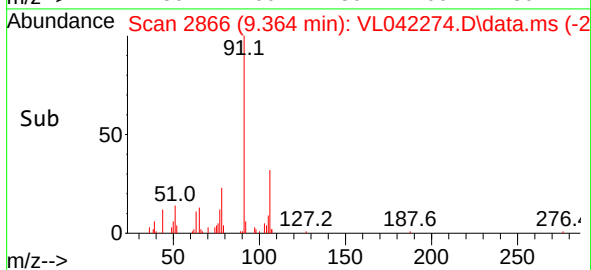
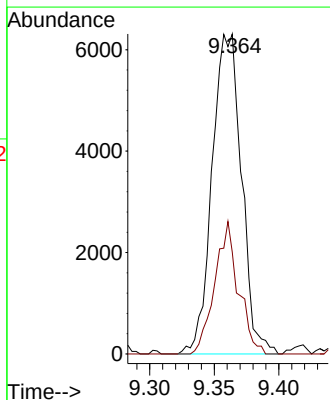
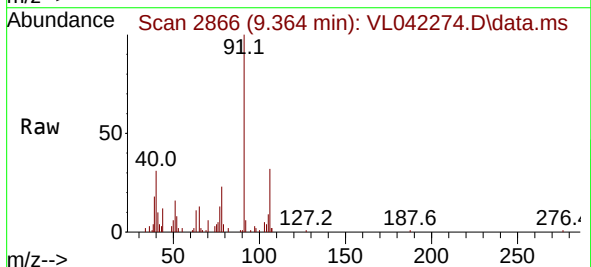
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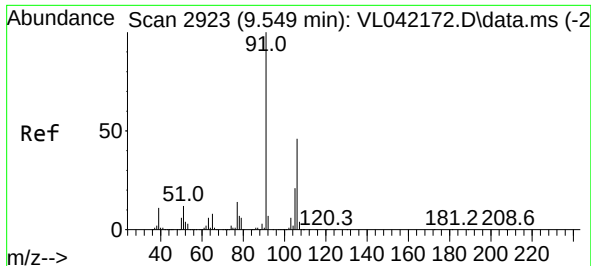
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.157 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 91 Resp: 10002
Ion Ratio Lower Upper
91 100
106 31.8 24.2 36.2





#59

m/p-Xylene

Concen: 0.631 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.013 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-4-04012025

Tgt Ion: 91 Resp: 3217

Ion Ratio Lower Upper

91 100

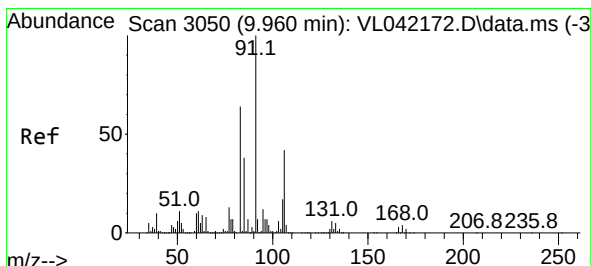
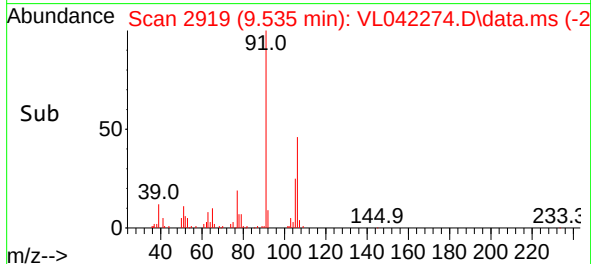
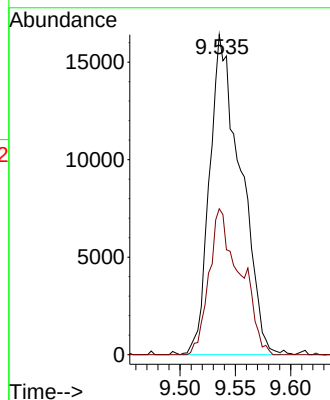
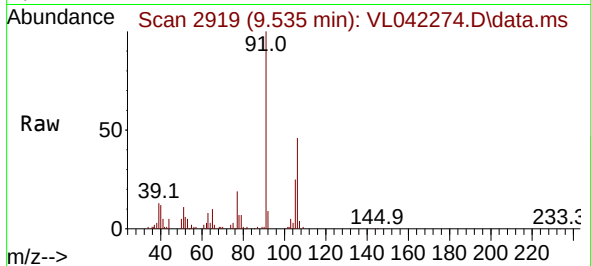
106 45.3 36.4 54.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 0.259 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.010 min

Lab File: VL042274.D

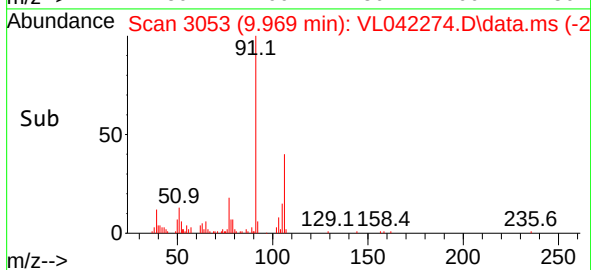
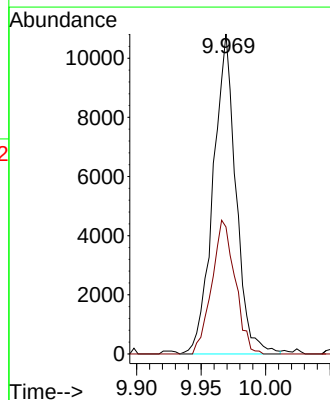
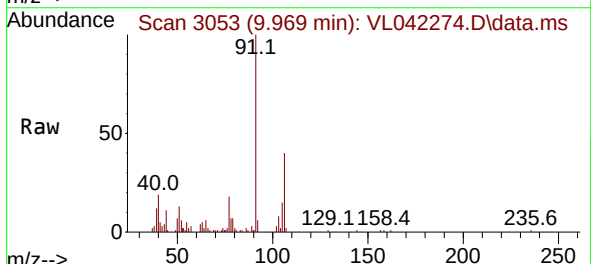
Acq: 08 Apr 2025 22:11

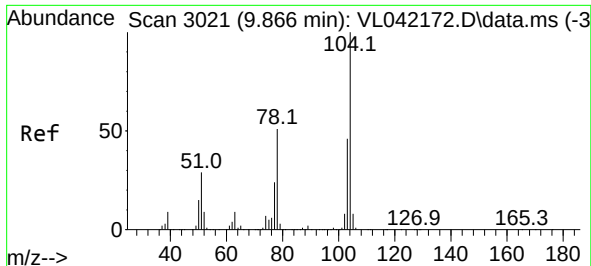
Tgt Ion: 91 Resp: 13256

Ion Ratio Lower Upper

91 100

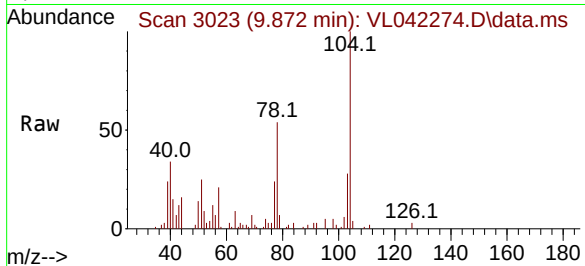
106 42.7 20.8 62.5





#61
Styrene
Concen: 0.278 ppbv m
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

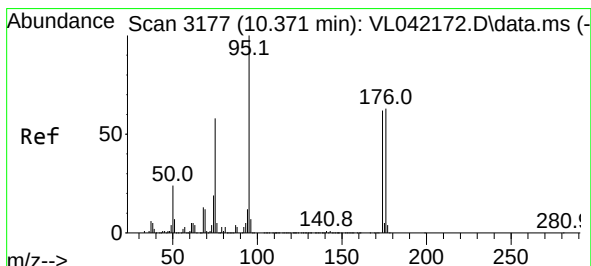
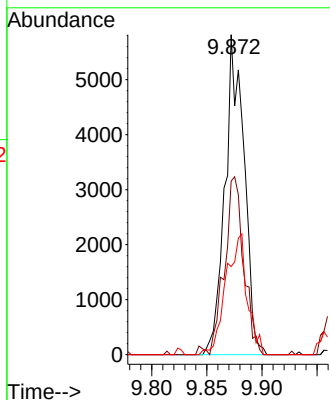
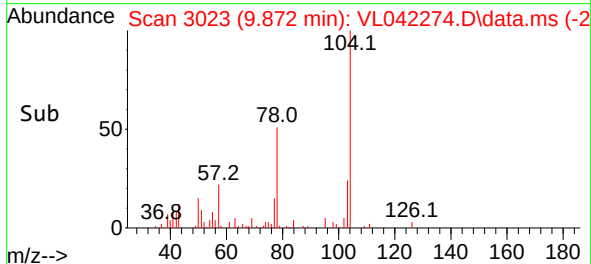
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



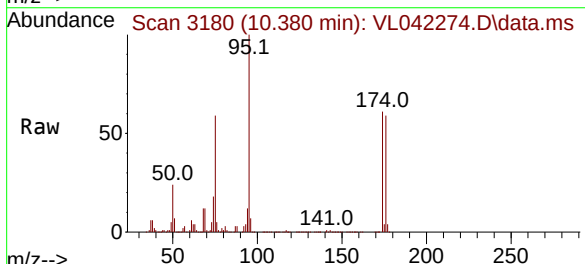
Tgt Ion:104 Resp: 702
Ion Ratio Lower Upper
104 100
78 56.6 41.8 62.6
103 42.0 37.0 55.4

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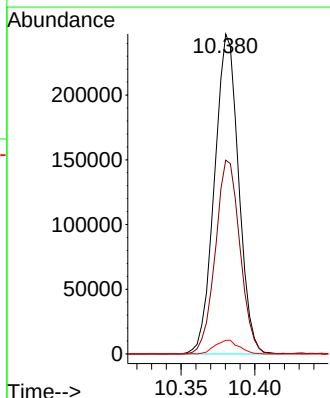
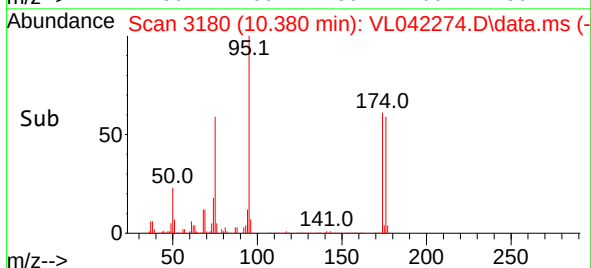
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

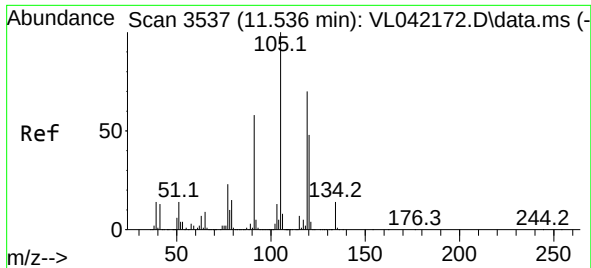


#68
1-Bromo-4-Fluorobenzene
Concen: 9.520 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



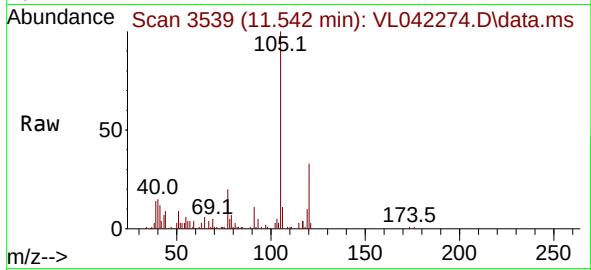
Tgt Ion: 95 Resp: 281110
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.3 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025



Tgt Ion:	105	Resp:	999
Ion	Ratio	Lower	Upper
105	100		
120	32.7	38.6	58.0
91	9.8	46.2	69.2
77	19.2	18.6	27.8

Manual Integrations
 APPROVED

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

