

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043238.D
 Acq On : 19 Nov 2025 14:25
 Operator : SY/MD
 Sample : Q3626-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9B-SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 20 00:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	103574	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	291331	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	223974	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	163862	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3872	0.265	ppbv	93
3) Chlorodifluoromethane	1.476	51	1559m	0.109	ppbv	
4) Chloromethane	1.534	50	40516	7.418	ppbv	99
5) Vinyl Chloride	1.580	62	1563	0.262	ppbv #	88
7) Chloroethane	1.706	64	2300	0.989	ppbv #	79
9) Propene	1.482	41	12538	2.055	ppbv #	1
10) Heptane	4.962	43	3864m	0.213	ppbv	
11) Trichlorofluoromethane	1.877	101	2019	0.143	ppbv	94
13) Ethanol	1.719	45	68935	32.134	ppbv	98
15) Acetone	1.832	43	301895	20.980	ppbv	100
16) 1,3-Butadiene	1.602	39	17830	2.779	ppbv #	57
17) tert-Butyl alcohol	2.039	59	3849m	0.204	ppbv	
19) Isopropyl Alcohol	1.884	45	51890	6.381	ppbv #	1
20) Methylene Chloride	2.062	84	4882	0.398	ppbv #	80
26) Hexane	2.822	57	9063	0.666	ppbv #	40
27) Carbon Disulfide	2.149	76	9305	0.670	ppbv #	48
34) 2-Butanone	2.554	43	22054	1.072	ppbv	99
35) Carbon Tetrachloride	3.761	117	781m	0.035	ppbv	
36) Benzene	3.654	78	146126	5.237	ppbv	97
52) Tetrachloroethene	8.218	164	624m	0.060	ppbv	
53) Toluene	6.927	91	17894m	0.542	ppbv	
59) m/p-Xylene	9.526	91	9438m	0.273	ppbv	
60) o-Xylene	9.956	91	3821	0.111	ppbv	93
74) 1,2,4-Trimethylbenzene	11.532	105	4967	0.129	ppbv #	53

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

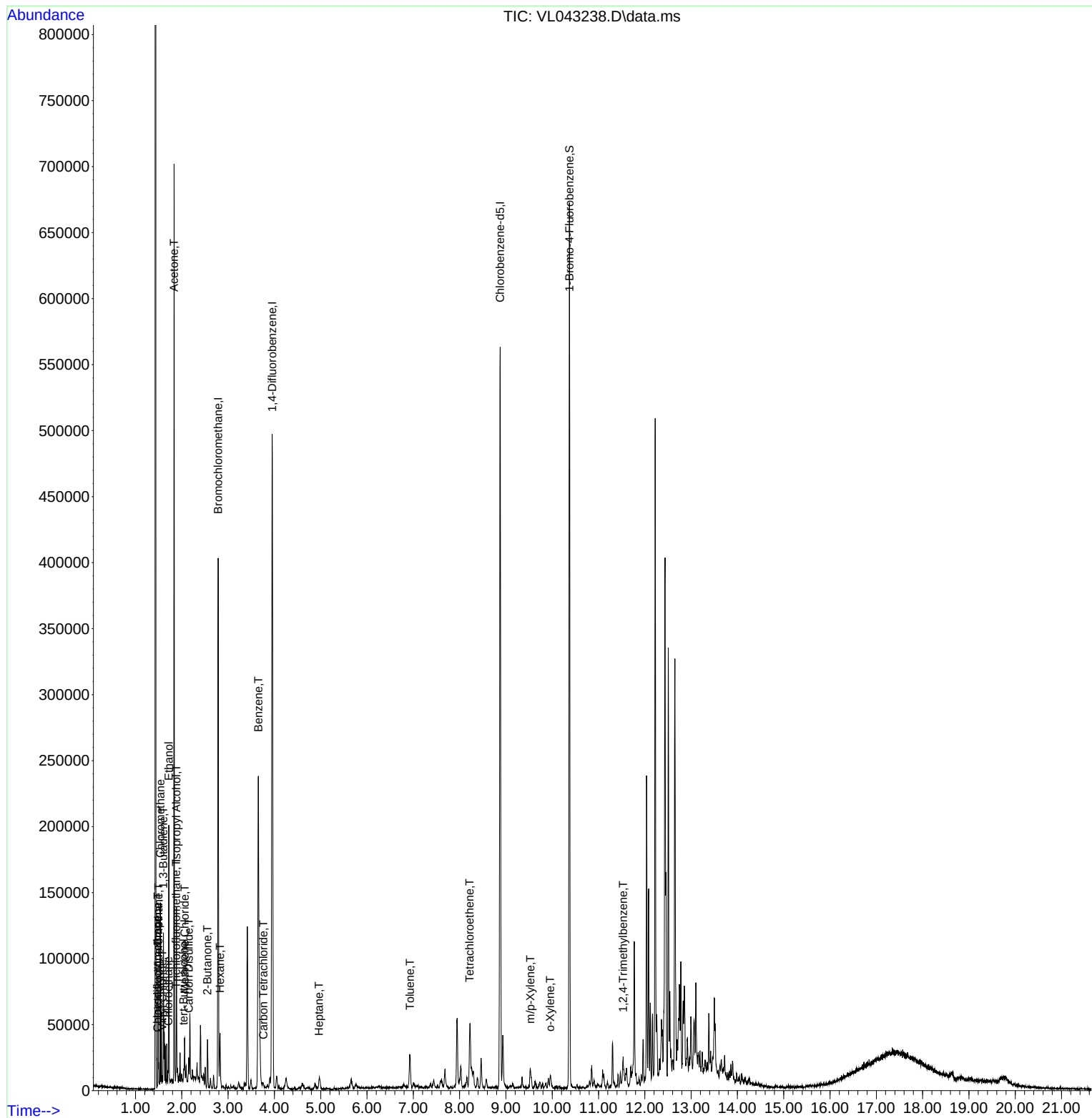
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043238.D
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Operator : SY/MD
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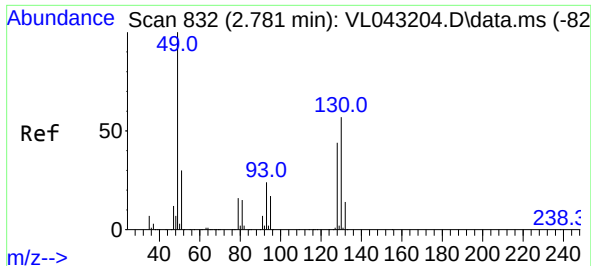
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Quant Time: Nov 20 00:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
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Manual Integrations
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Supervised By : Mahesh Dadoda 11/21/2025





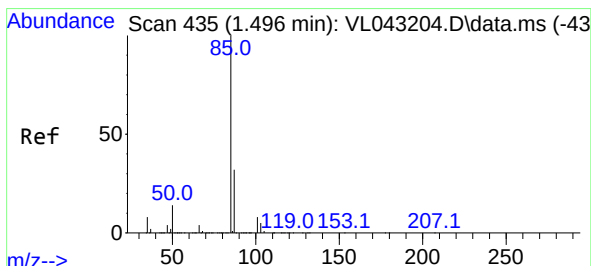
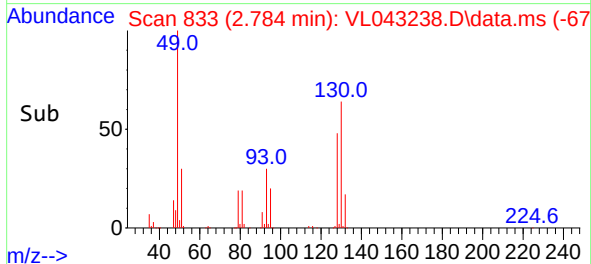
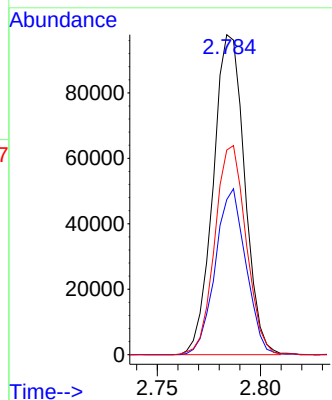
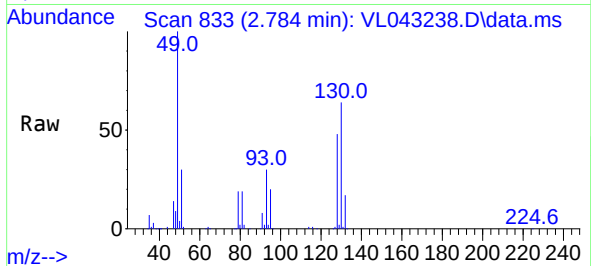
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion: 49 Resp: 103574
Ion Ratio Lower Upper
49 100
128 50.4 23.0 69.0
130 65.0 29.9 89.7

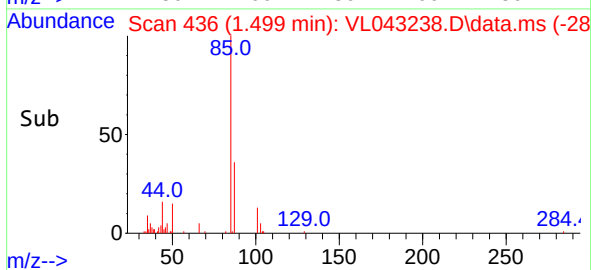
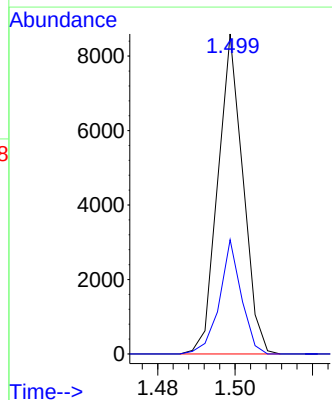
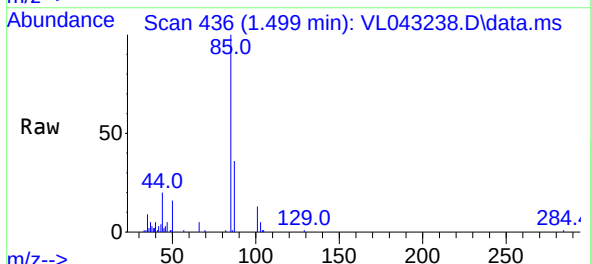
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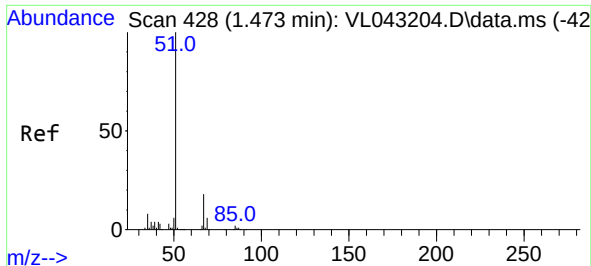
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

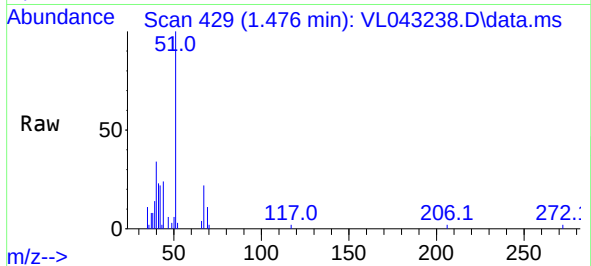
Tgt Ion: 85 Resp: 3872
Ion Ratio Lower Upper
85 100
87 35.7 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.109 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

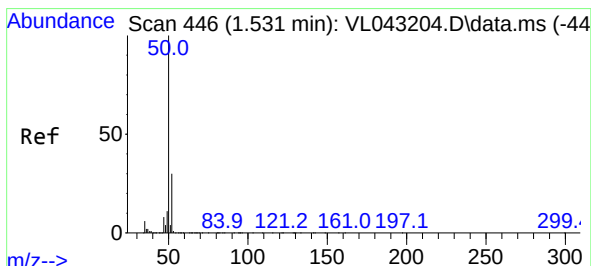
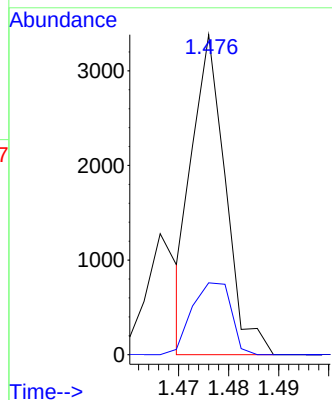
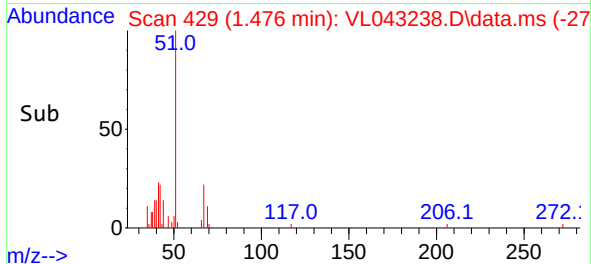
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



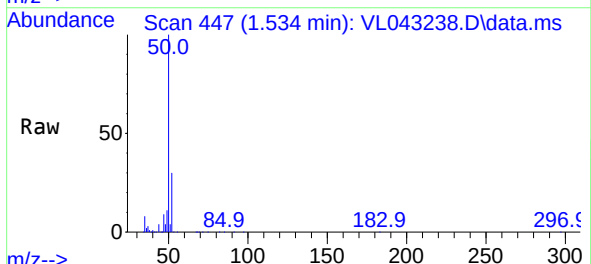
Tgt Ion: 51 Resp: 1559
Ion Ratio Lower Upper
51 100
67 26.6 14.9 22.3

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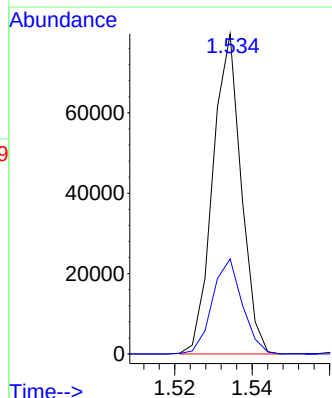
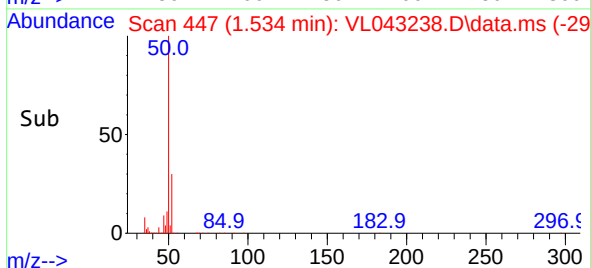
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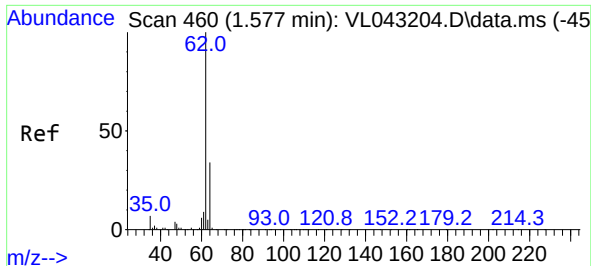


#4
Chloromethane
Concen: 7.418 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25



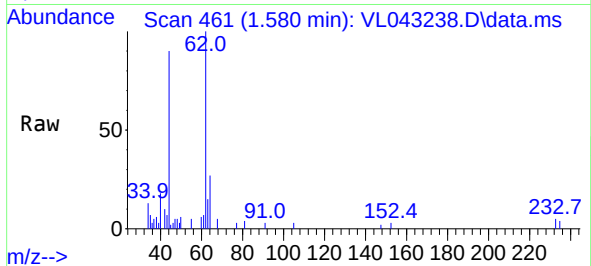
Tgt Ion: 50 Resp: 40516
Ion Ratio Lower Upper
50 100
52 29.7 24.1 36.1





#5
 Vinyl Chloride
 Concen: 0.262 ppbv
 RT: 1.580 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VL043238.D
 Acq: 19 Nov 2025 14:25

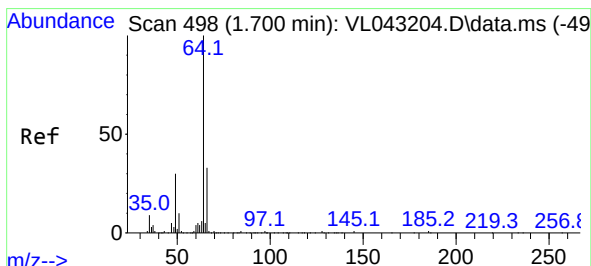
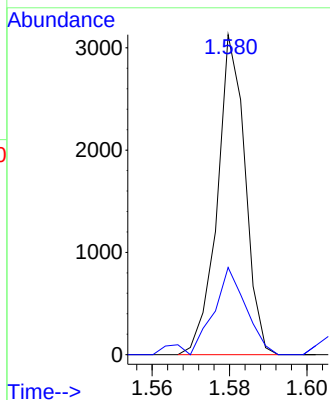
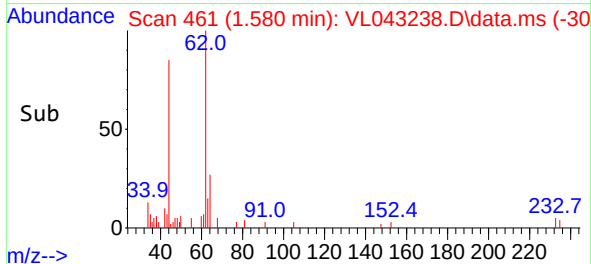
Instrument :
 MSVOA_1
 ClientSampleId :
 9B-SG-2



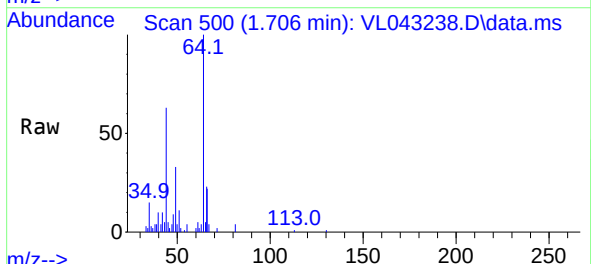
Tgt Ion: 62 Resp: 156
 Ion Ratio Lower Upper
 62 100
 64 27.3 27.3 40.9

Manual Integrations
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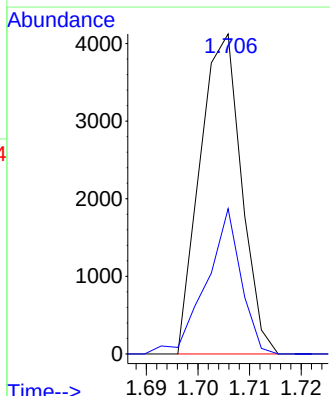
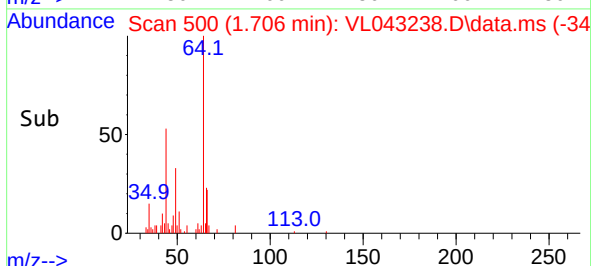
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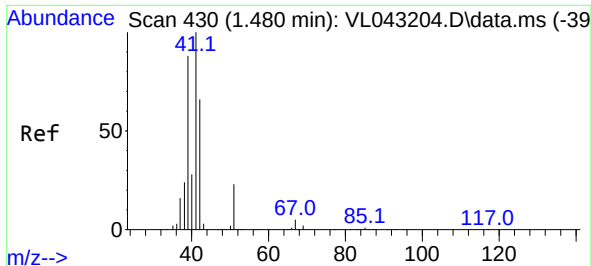


#7
 Chloroethane
 Concen: 0.989 ppbv
 RT: 1.706 min Scan# 500
 Delta R.T. 0.006 min
 Lab File: VL043238.D
 Acq: 19 Nov 2025 14:25



Tgt Ion: 64 Resp: 2300
 Ion Ratio Lower Upper
 64 100
 66 45.4 26.8 40.2





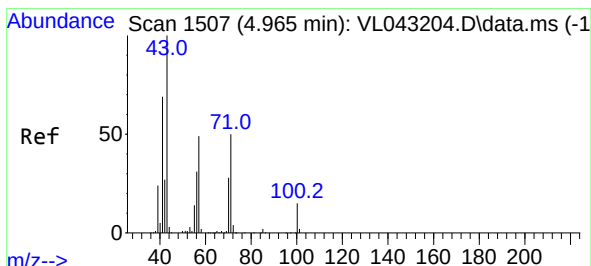
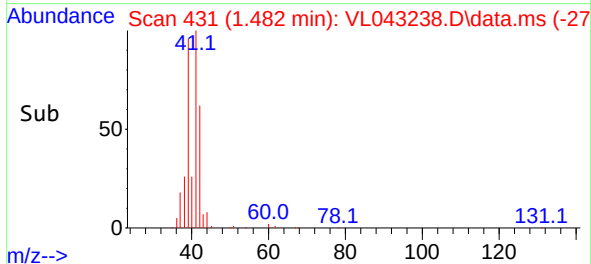
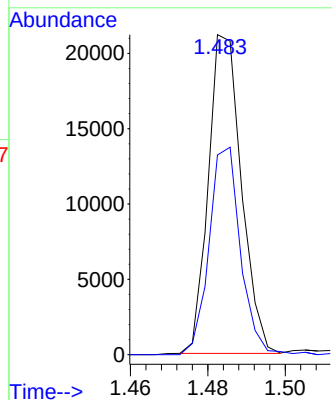
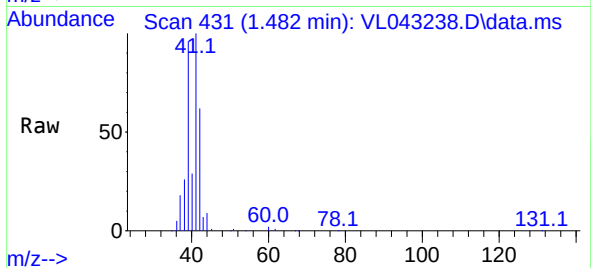
#9
Propene
Concen: 2.055 ppbv
RT: 1.482 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2

Tgt Ion: 41 Resp: 12538
Ion Ratio Lower Upper
41 100
42 62.4 3.7 5.5

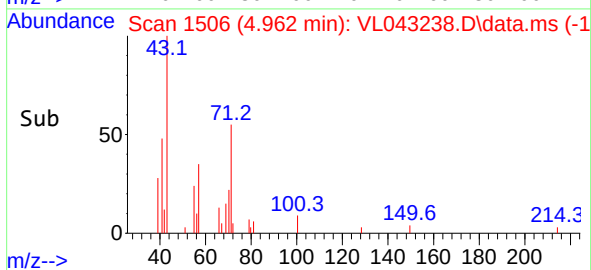
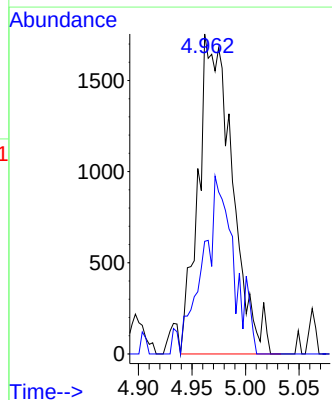
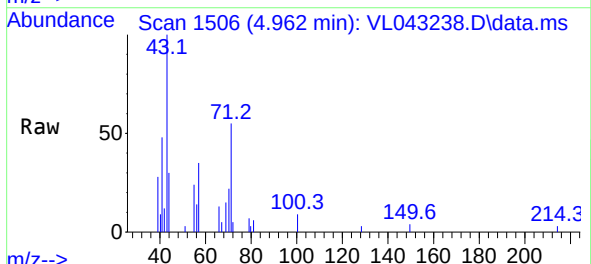
Manual Integrations
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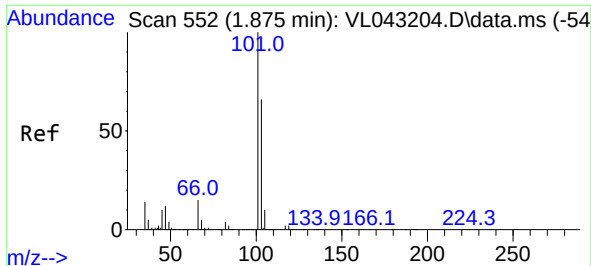
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#10
Heptane
Concen: 0.213 ppbv m
RT: 4.962 min Scan# 1506
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Tgt Ion: 43 Resp: 3864
Ion Ratio Lower Upper
43 100
57 51.4 39.7 59.5





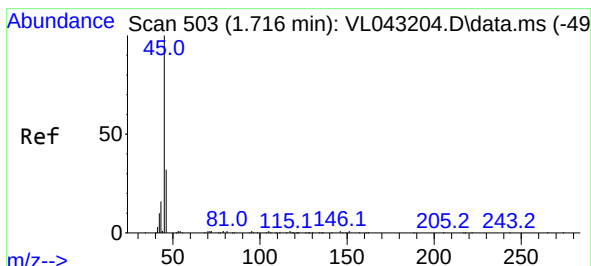
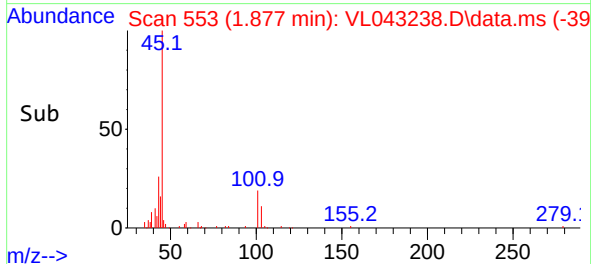
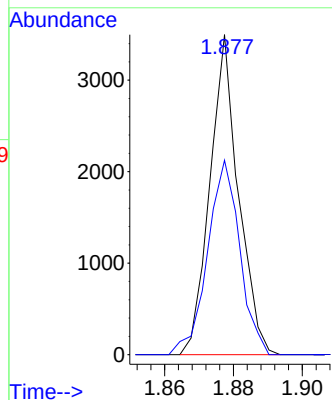
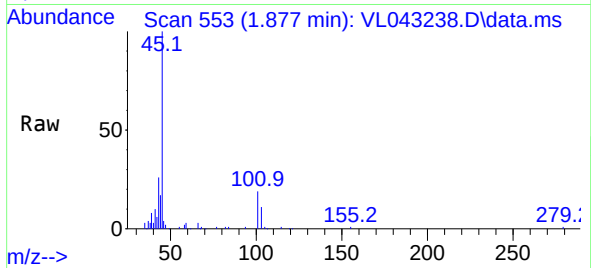
#11
Trichlorofluoromethane
Concen: 0.143 ppbv
RT: 1.877 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2

Tgt Ion:101 Resp: 2019
Ion Ratio Lower Upper
101 100
103 60.7 52.6 79.0

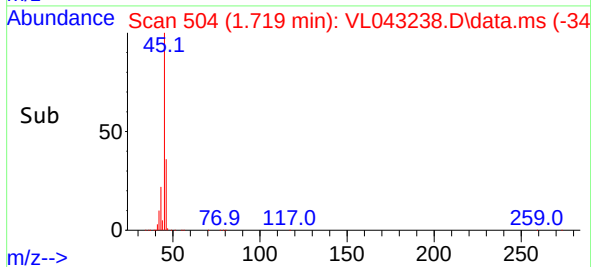
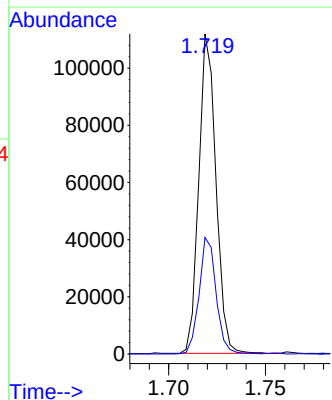
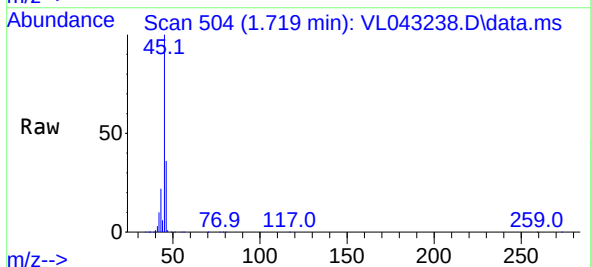
Manual Integrations
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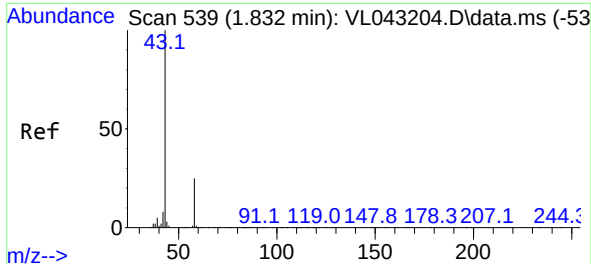
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 32.134 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

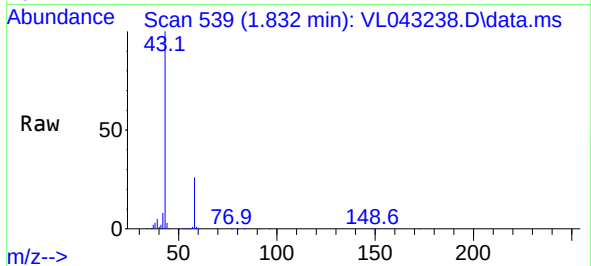
Tgt Ion: 45 Resp: 68935
Ion Ratio Lower Upper
45 100
46 36.5 15.0 59.8





#15
Acetone
Concen: 20.980 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

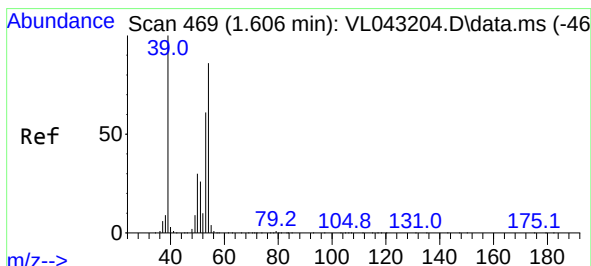
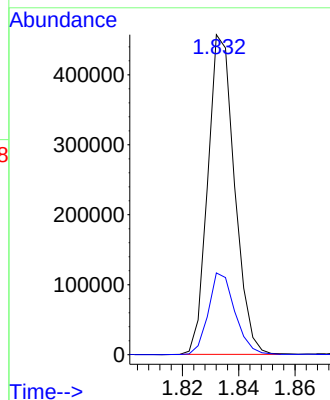
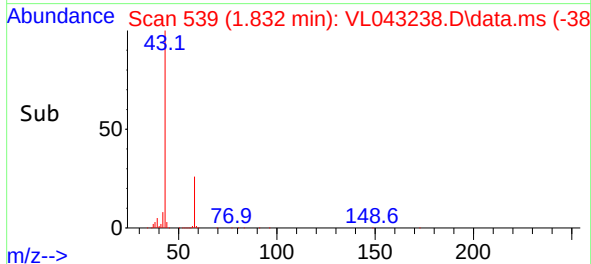
Instrument :
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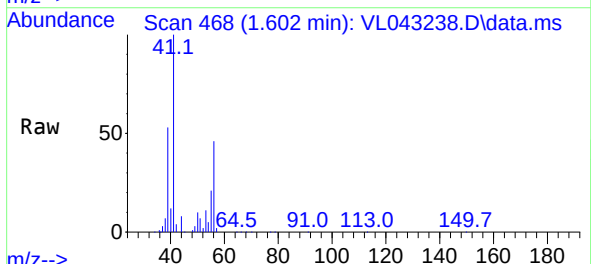
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Ion Ratio Lower Upper
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58 25.9 20.7 31.1

Manual Integrations
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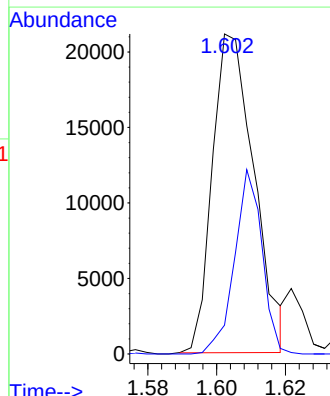
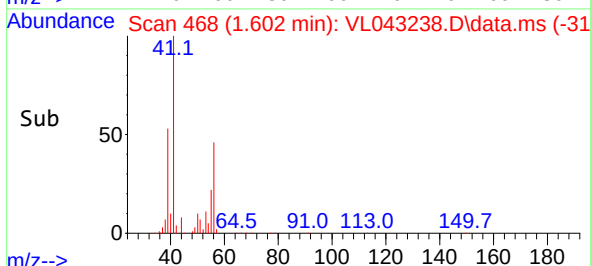
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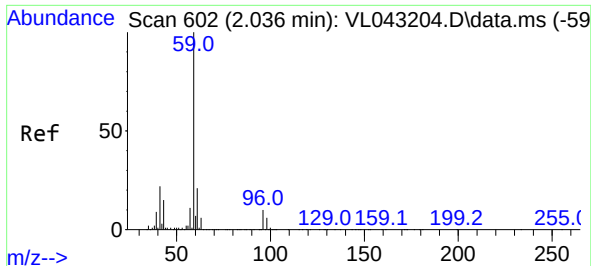


#16
1,3-Butadiene
Concen: 2.779 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25



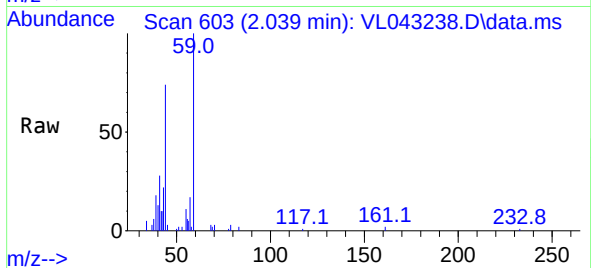
Tgt Ion: 39 Resp: 17830
Ion Ratio Lower Upper
39 100
54 38.0 59.4 89.2#





#17
tert-Butyl alcohol
Concen: 0.204 ppbv m
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

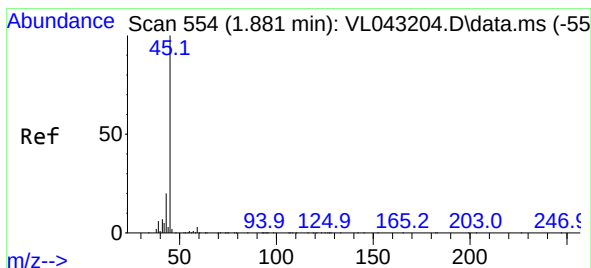
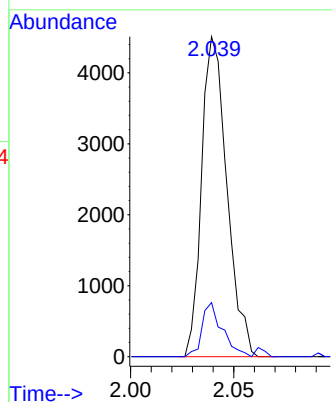
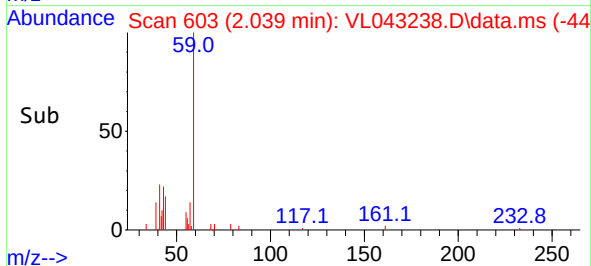
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2



Tgt Ion: 59 Resp: 3849
Ion Ratio Lower Upper
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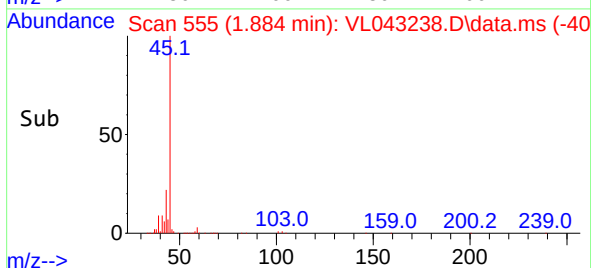
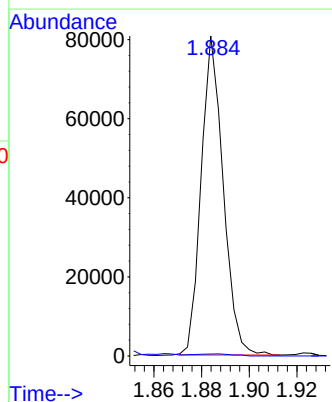
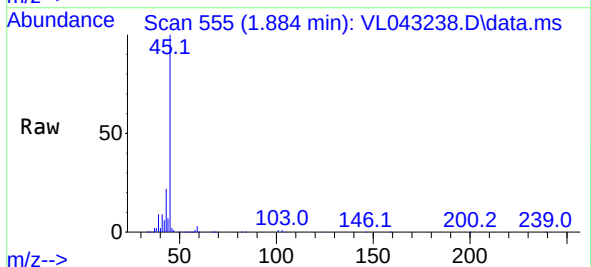
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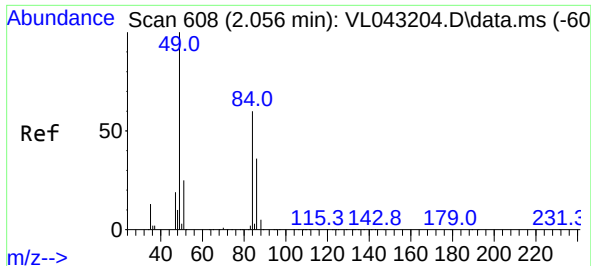
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#19
Isopropyl Alcohol
Concen: 6.381 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

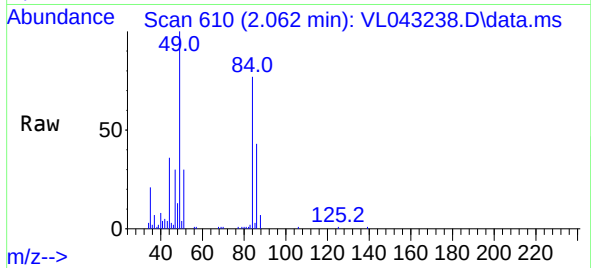
Tgt Ion: 45 Resp: 51890
Ion Ratio Lower Upper
45 100
58 150.5 31.3 46.9





#20
Methylene Chloride
Concen: 0.398 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

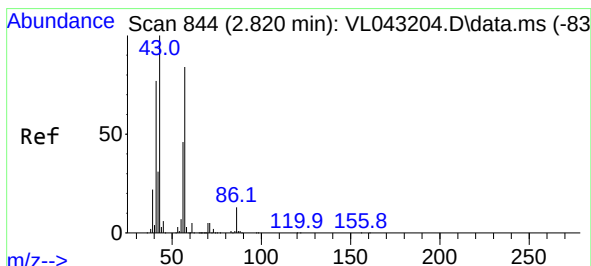
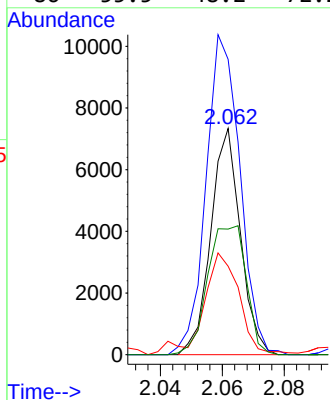
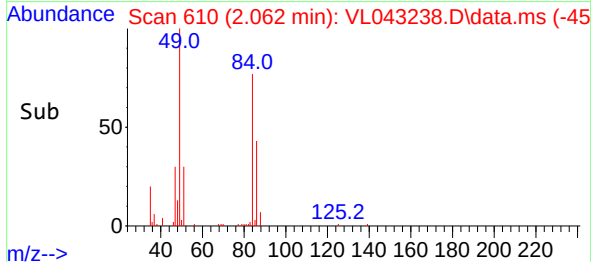
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



Tgt Ion: 84 Resp: 488
Ion Ratio Lower Upper
84 100
49 128.7 132.9 199.3
51 37.8 34.8 52.2
86 55.5 48.2 72.2

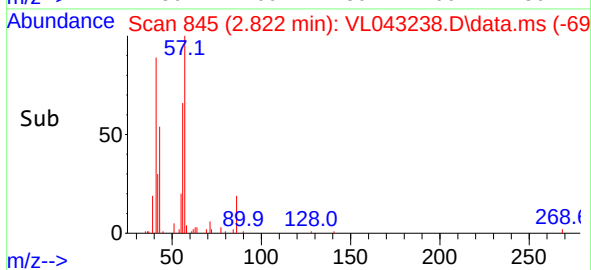
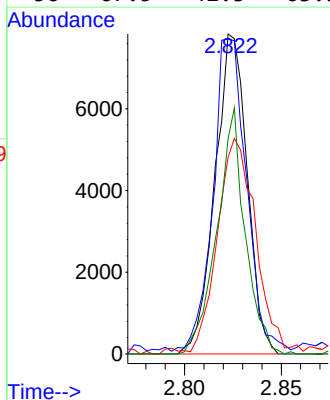
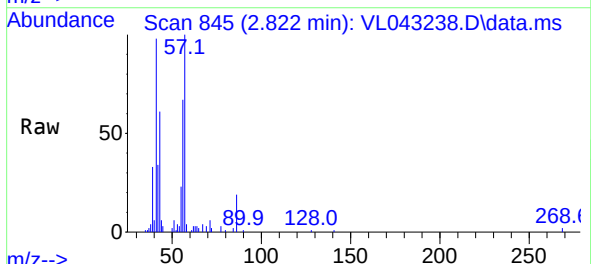
Manual Integrations
APPROVED

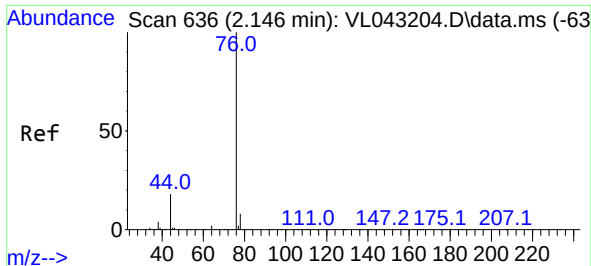
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#26
Hexane
Concen: 0.666 ppbv
RT: 2.822 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

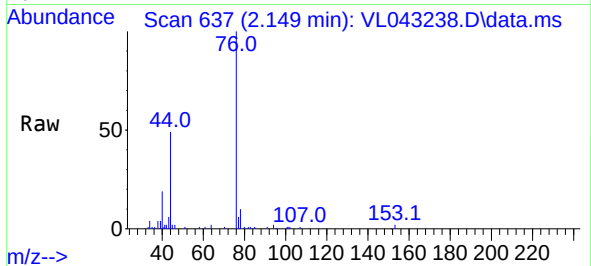
Tgt Ion: 57 Resp: 9063
Ion Ratio Lower Upper
57 100
41 111.0 74.6 111.8
43 81.6 179.0 268.4#
56 67.5 42.3 63.5#





#27
Carbon Disulfide
Concen: 0.670 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

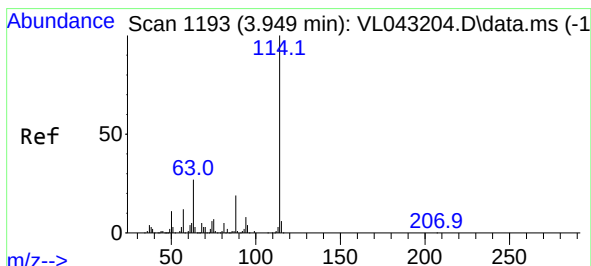
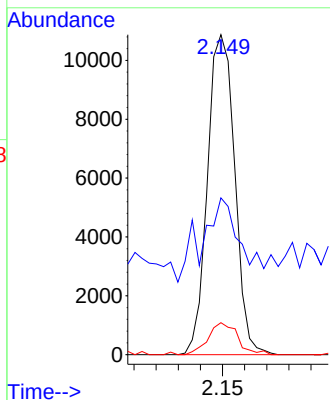
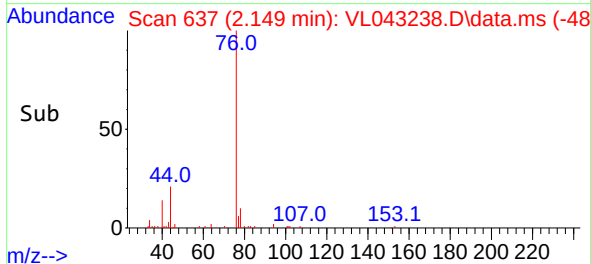
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



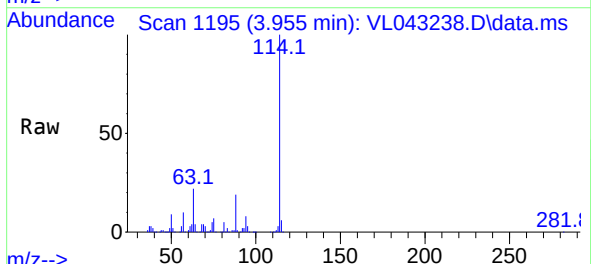
Tgt Ion: 76 Resp: 930
Ion Ratio Lower Upper
76 100
44 57.4 16.1 24.1
78 10.8 9.6 14.4

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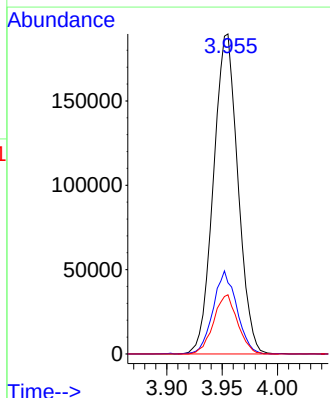
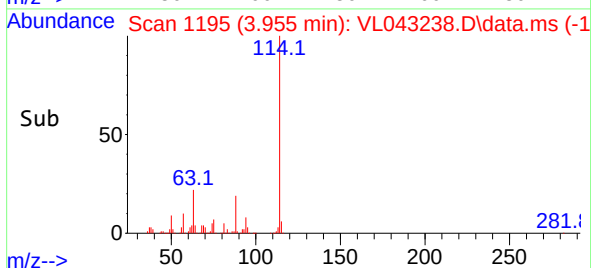
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

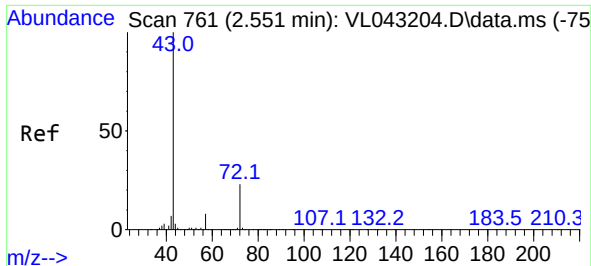


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25



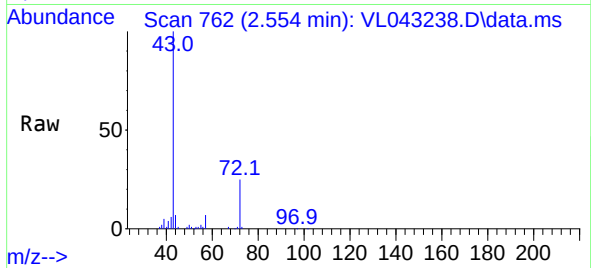
Tgt Ion:114 Resp: 291331
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 1.072 ppbv
RT: 2.554 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

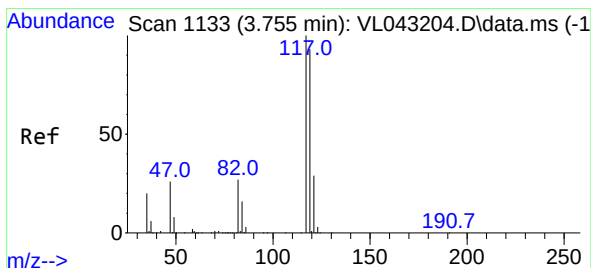
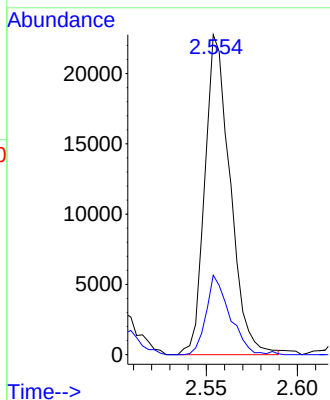
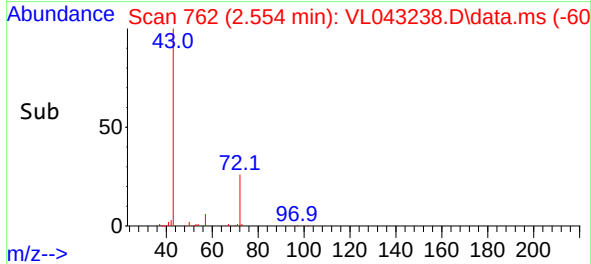
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



Tgt Ion: 43 Resp: 22054
Ion Ratio Lower Upper
43 100
72 23.3 18.1 27.1

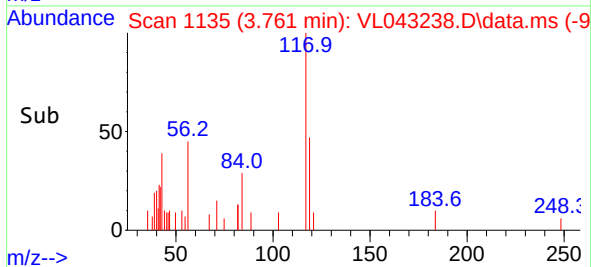
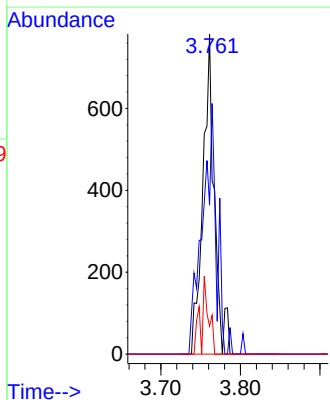
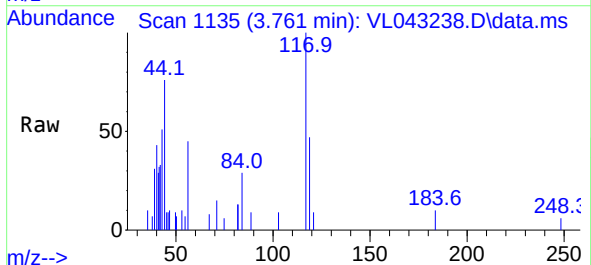
Manual Integrations
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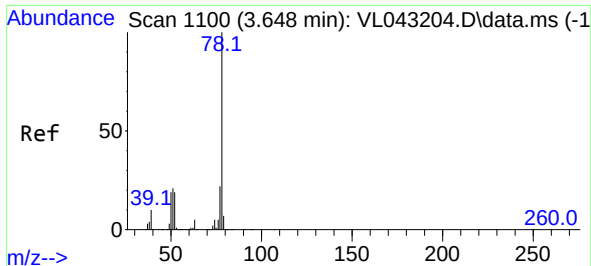
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

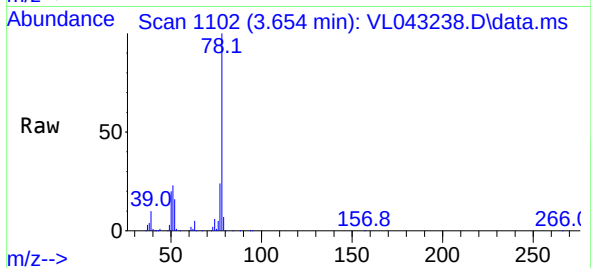
Tgt Ion:117 Resp: 781
Ion Ratio Lower Upper
117 100
119 46.5 74.6 112.0#
121 8.7 23.2 34.8#





#36
Benzene
Concen: 5.237 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

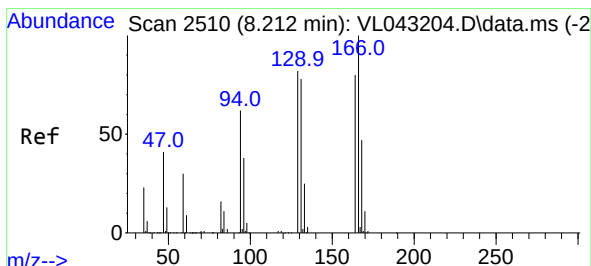
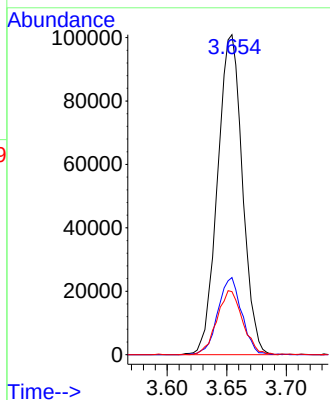
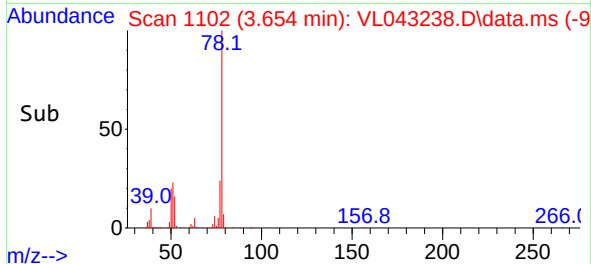
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



Tgt Ion: 78 Resp: 146120
Ion Ratio Lower Upper
78 100
77 24.1 17.5 26.3
50 19.7 15.5 23.3

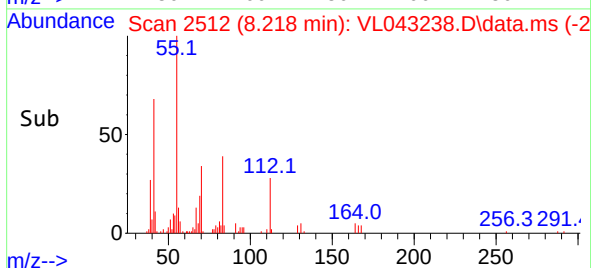
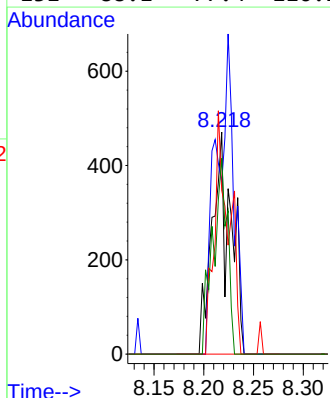
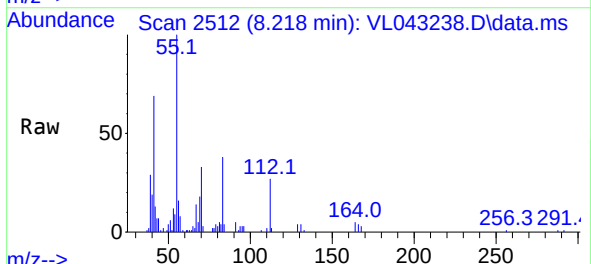
Manual Integrations
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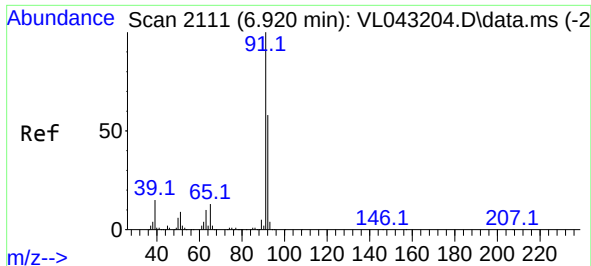
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

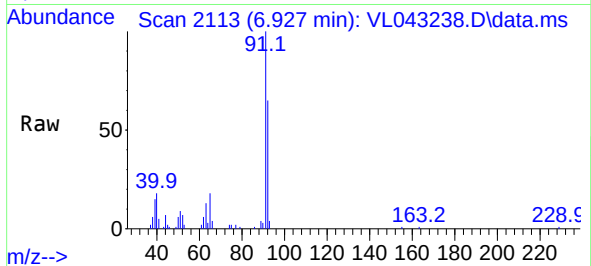
Tgt Ion:164 Resp: 624
Ion Ratio Lower Upper
164 100
166 77.5 99.4 149.2#
129 73.7 81.8 122.8#
131 88.1 77.4 116.2





#53
Toluene
Concen: 0.542 ppbv m
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

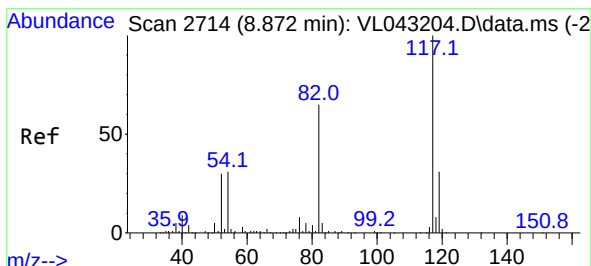
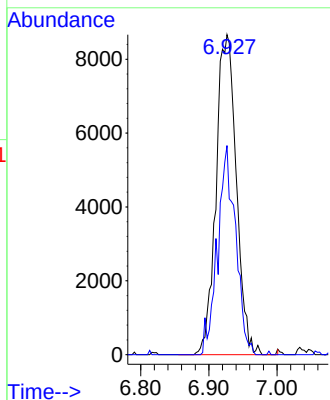
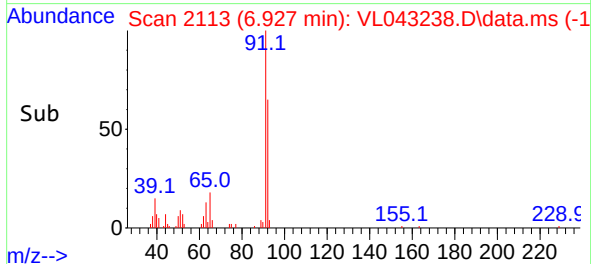
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-2



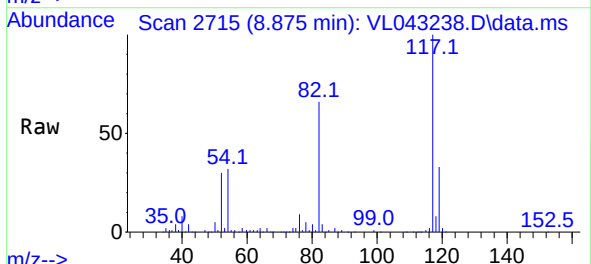
Tgt Ion: 91 Resp: 17894
Ion Ratio Lower Upper
91 100
92 57.9 47.4 71.0

Manual Integrations
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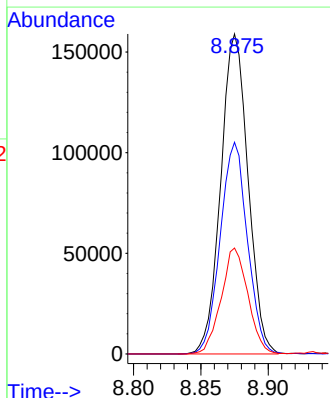
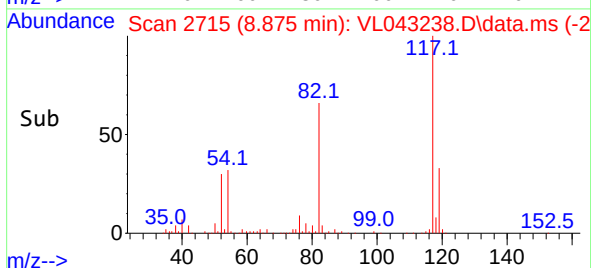
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

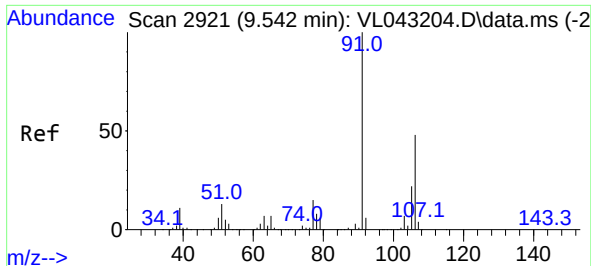


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25



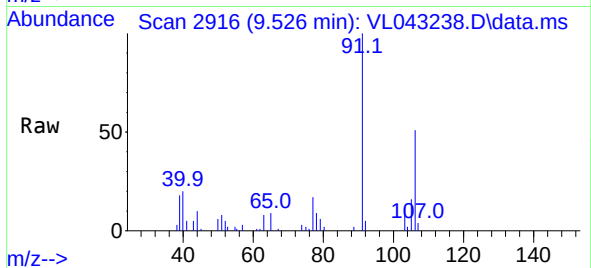
Tgt Ion:117 Resp: 223974
Ion Ratio Lower Upper
117 100
82 65.9 56.1 84.1
119 32.6 25.0 37.6





#59
m/p-Xylene
Concen: 0.273 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.017 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

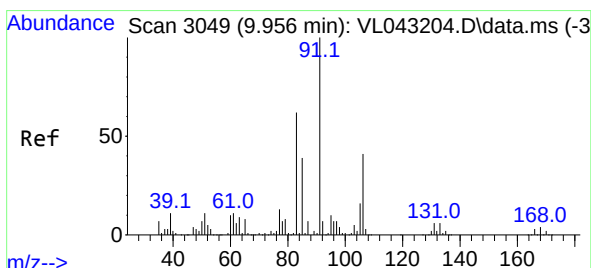
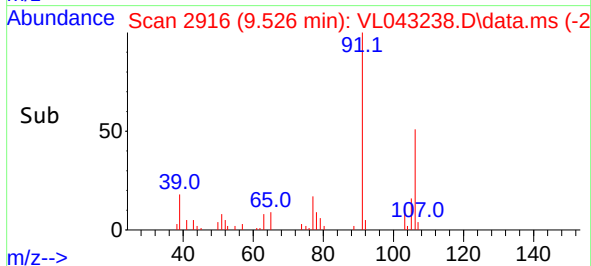
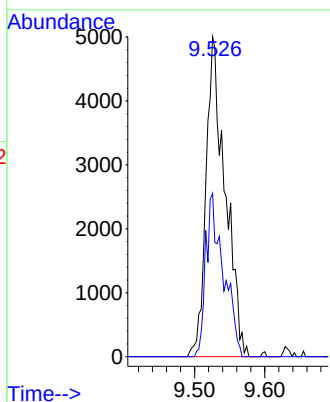
Instrument : MSVOA_L
ClientSampleId : 9B-SG-2



Tgt Ion: 91 Resp: 9438
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

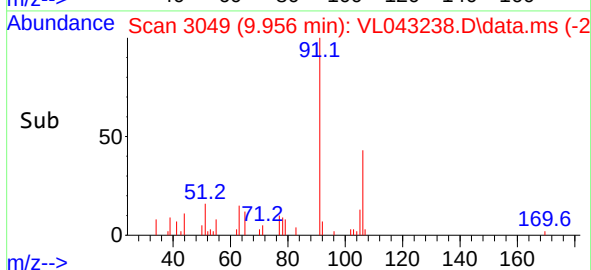
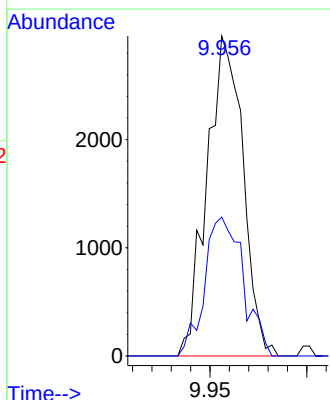
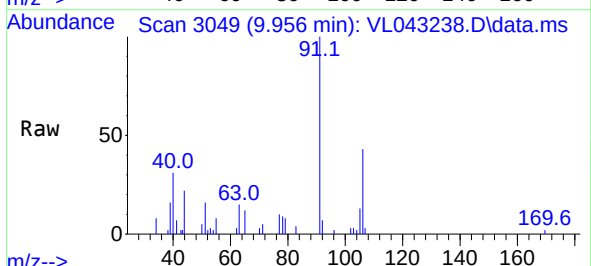
Manual Integrations
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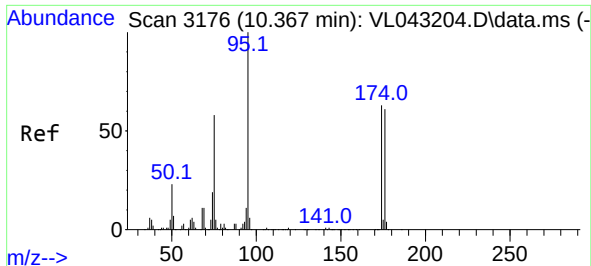
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#60
o-Xylene
Concen: 0.111 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

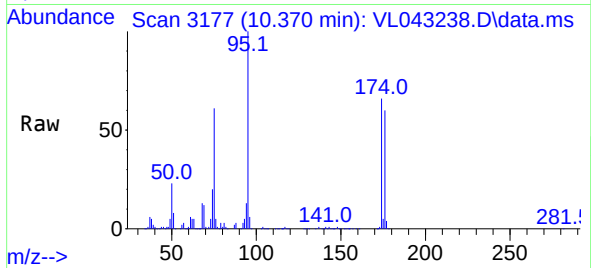
Tgt Ion: 91 Resp: 3821
Ion Ratio Lower Upper
91 100
106 46.6 20.9 62.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.370 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25

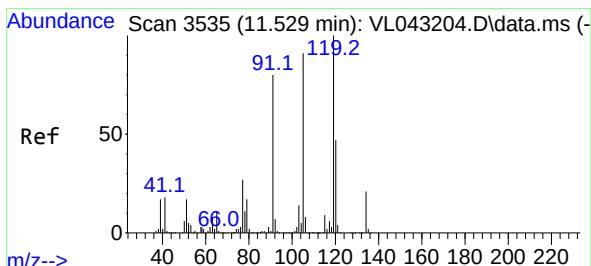
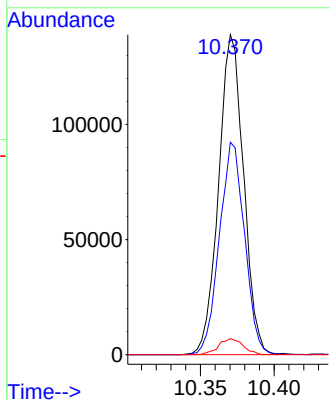
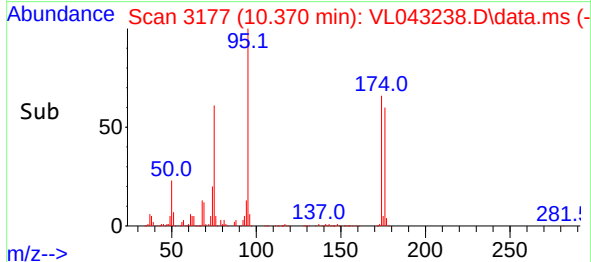
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-2



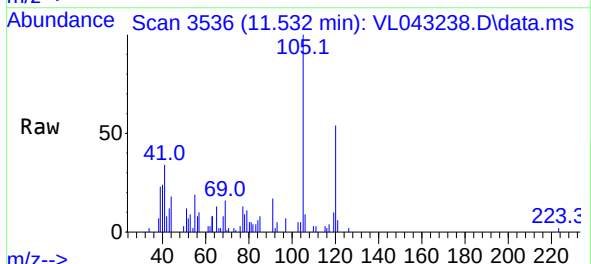
Tgt Ion: 95 Resp: 163862
Ion Ratio Lower Upper
95 100
174 66.9 50.2 75.2
175 4.9 4.1 6.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043238.D
Acq: 19 Nov 2025 14:25



Tgt Ion:105 Resp: 4967
Ion Ratio Lower Upper
105 100
120 54.3 41.7 62.5
91 16.6 70.0 105.0#
77 10.8 23.8 35.8#

