

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043286.D
 Acq On : 24 Nov 2025 17:15
 Operator : SY/MD
 Sample : Q3696-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:42:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 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	2.781	49	108054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	273893	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	213852	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	155789	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2235	0.147	ppbv	95
4) Chloromethane	1.531	50	1475	0.259	ppbv	98
9) Propene	1.486	41	22248	3.496	ppbv #	1
11) Trichlorofluoromethane	1.874	101	5557	0.376	ppbv	99
13) Ethanol	1.719	45	4366	1.951	ppbv #	38
15) Acetone	1.832	43	169885	11.316	ppbv	99
17) tert-Butyl alcohol	2.033	59	922575	46.819	ppbv	99
19) Isopropyl Alcohol	1.881	45	19756	2.329	ppbv #	1
26) Hexane	2.823	57	3588	0.253	ppbv #	46
30) Cyclohexane	3.849	84	8784m	0.738	ppbv	
34) 2-Butanone	2.554	43	5298	0.274	ppbv	98
38) Trichloroethene	4.545	130	354m	0.034	ppbv	
52) Tetrachloroethene	8.212	164	56018	5.741	ppbv	91
53) Toluene	6.917	91	107585	3.464	ppbv	98
58) Ethyl Benzene	9.341	91	6269	0.152	ppbv	93
59) m/p-Xylene	9.519	91	14570	0.442	ppbv	100
60) o-Xylene	9.956	91	8900	0.270	ppbv	97
74) 1,2,4-Trimethylbenzene	11.526	105	8604	0.234	ppbv #	45

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

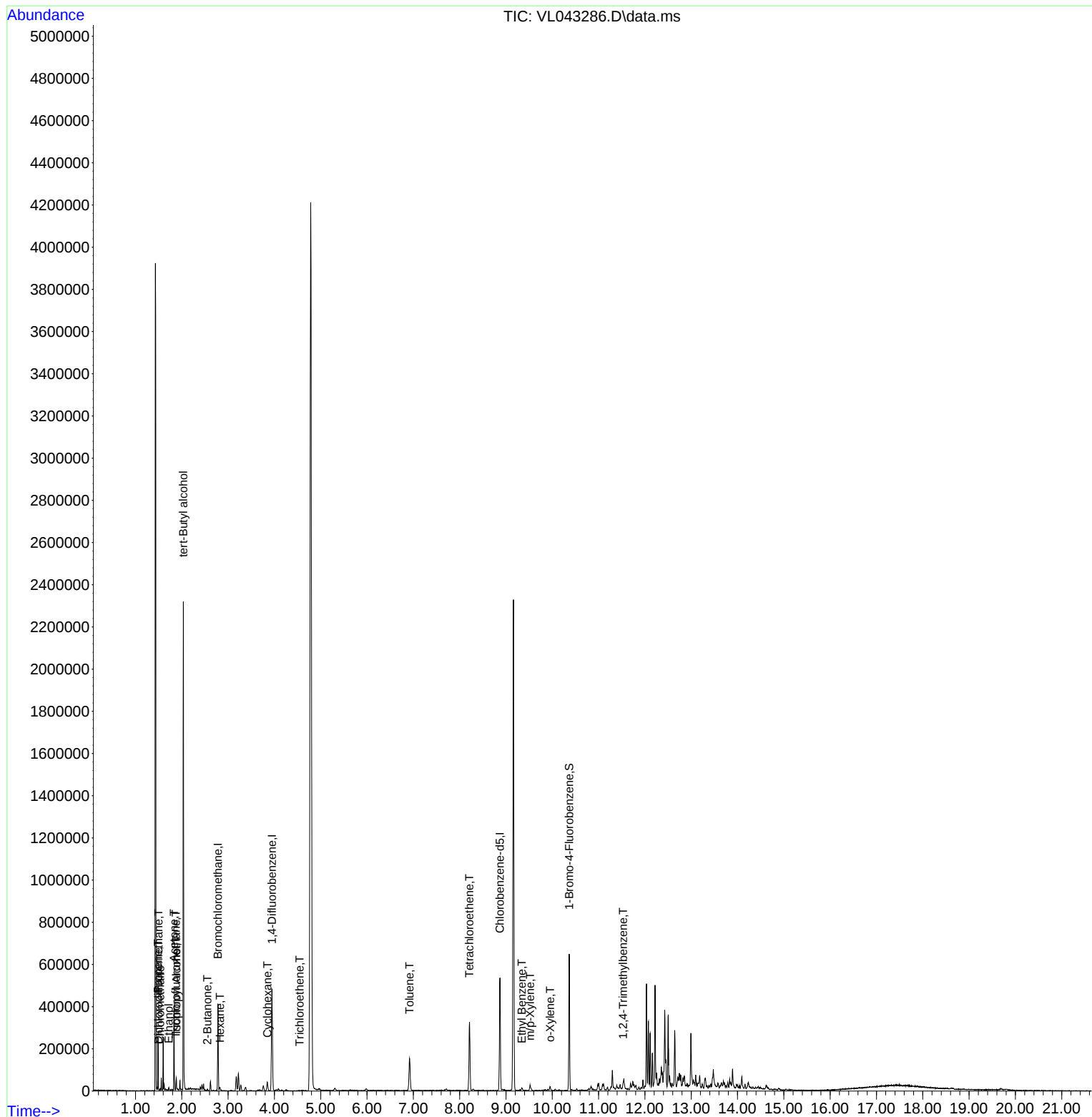
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043286.D
Acq On : 24 Nov 2025 17:15
Operator : SY/MD
Sample : Q3696-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

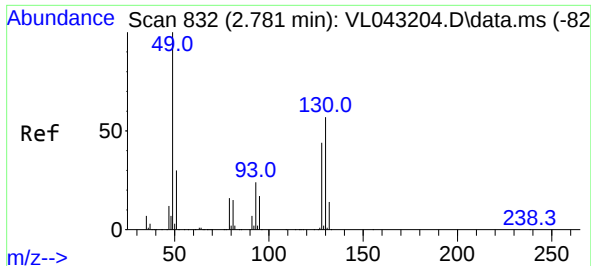
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 24 23:42:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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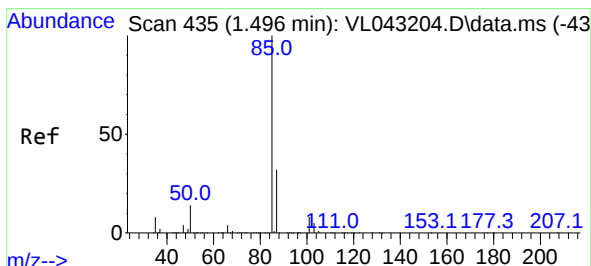
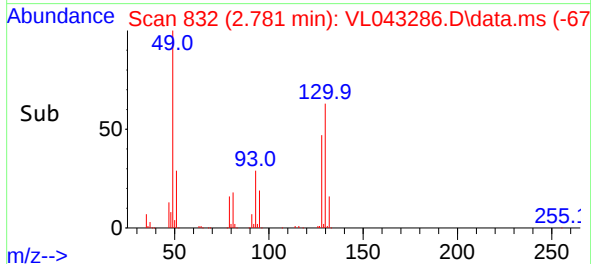
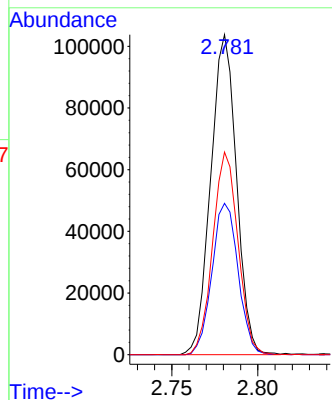
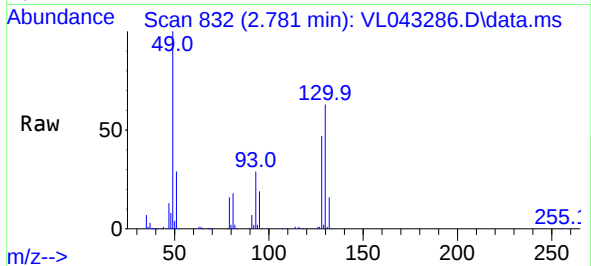
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 108054
Ion Ratio Lower Upper
49 100
128 48.1 23.0 69.0
130 62.1 29.9 89.7

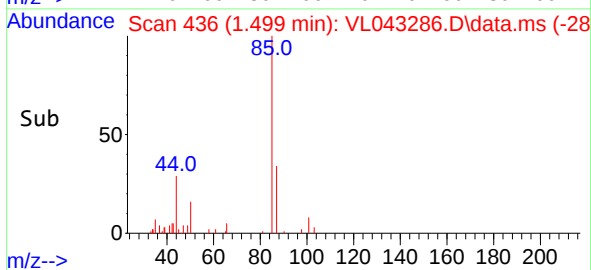
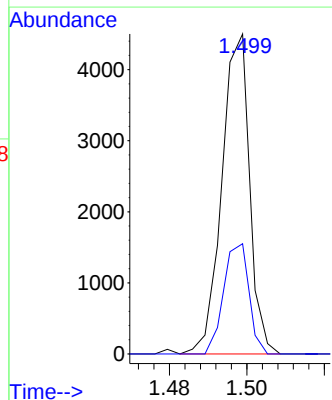
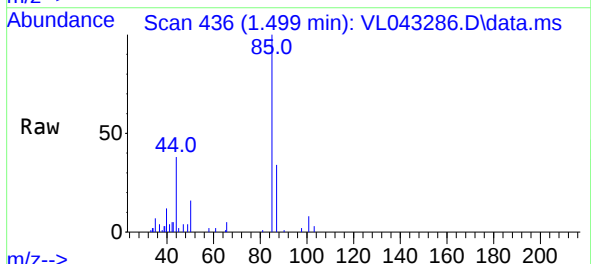
Manual Integrations
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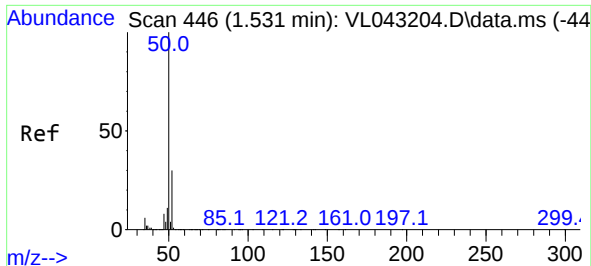
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.147 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

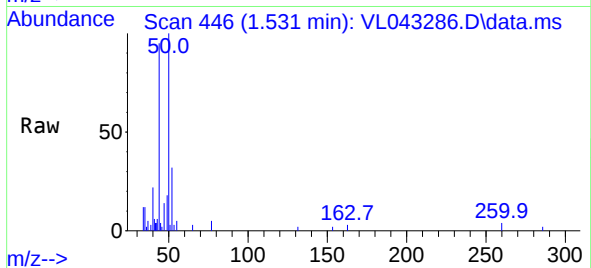
Tgt Ion: 85 Resp: 2235
Ion Ratio Lower Upper
85 100
87 34.5 25.4 38.2





#4
Chloromethane
Concen: 0.259 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

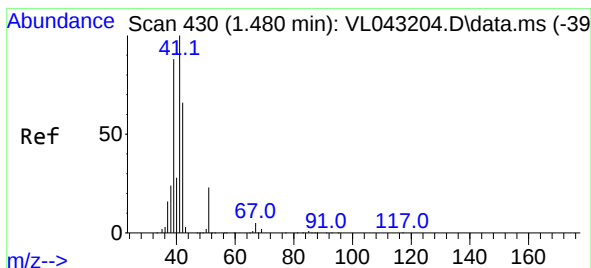
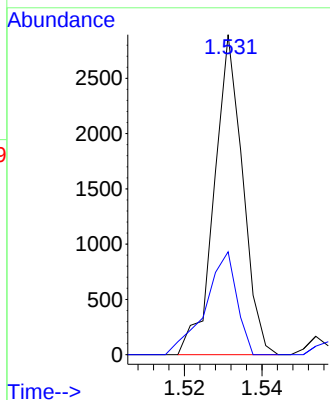
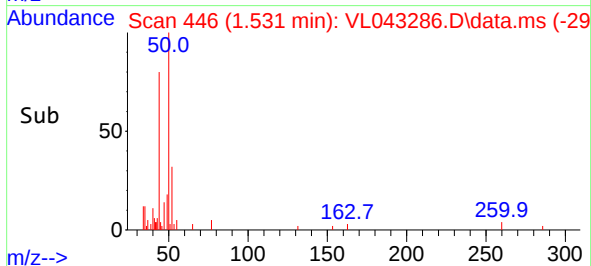
Instrument :
MSVOA_L
ClientSampleId :
SV1



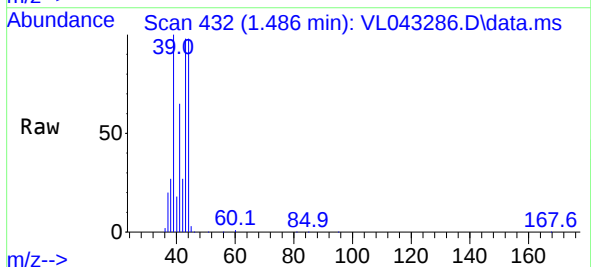
Tgt Ion: 50 Resp: 1475
Ion Ratio Lower Upper
50 100
52 31.3 24.1 36.1

Manual Integrations
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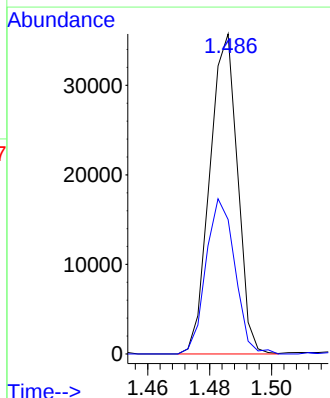
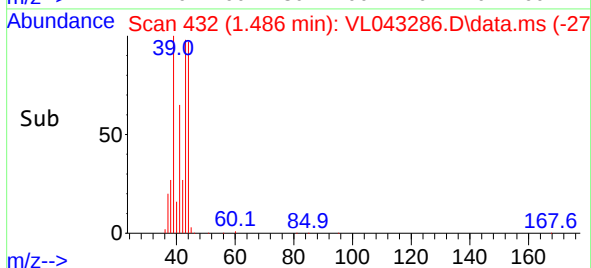
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

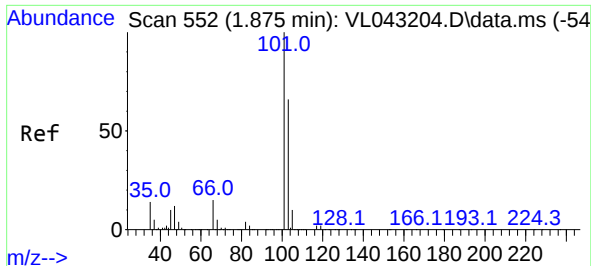


#9
Propene
Concen: 3.496 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



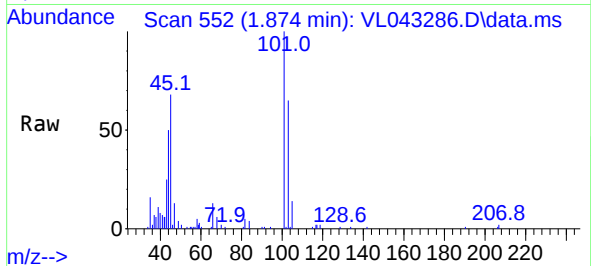
Tgt Ion: 41 Resp: 22248
Ion Ratio Lower Upper
41 100
42 53.2 3.7 5.5#





#11
Trichlorofluoromethane
Concen: 0.376 ppbv
RT: 1.874 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

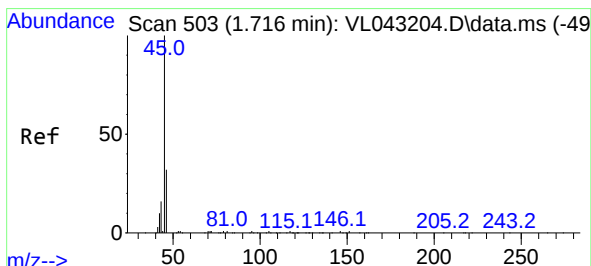
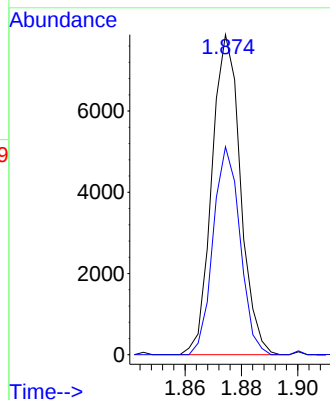
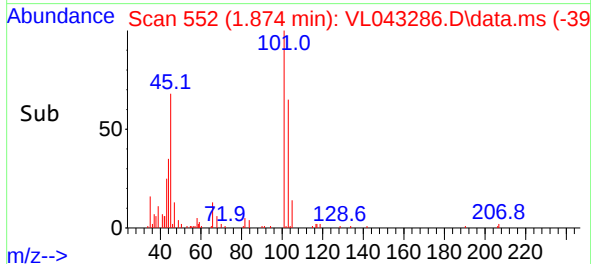
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:101 Resp: 555
Ion Ratio Lower Upper
101 100
103 65.0 52.6 79.0

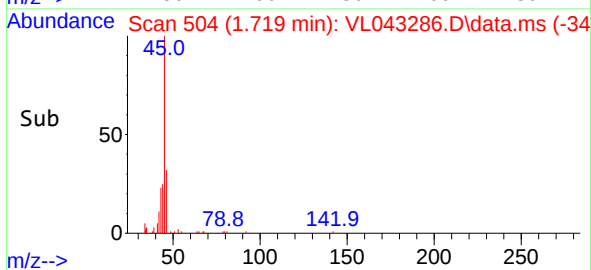
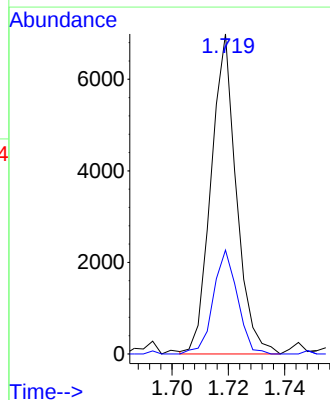
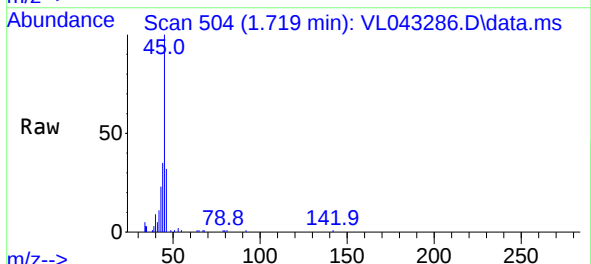
Manual Integrations
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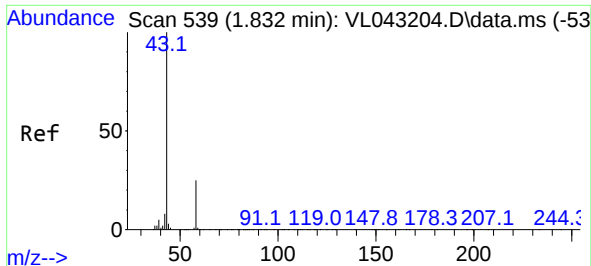
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#13
Ethanol
Concen: 1.951 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

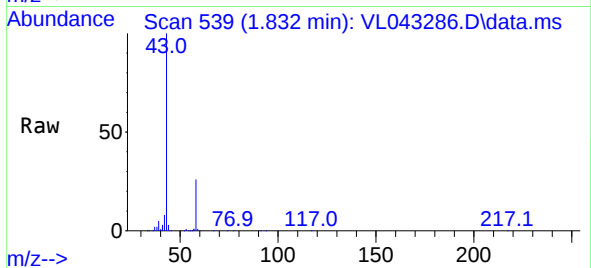
Tgt Ion: 45 Resp: 4366
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#





#15
Acetone
Concen: 11.316 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

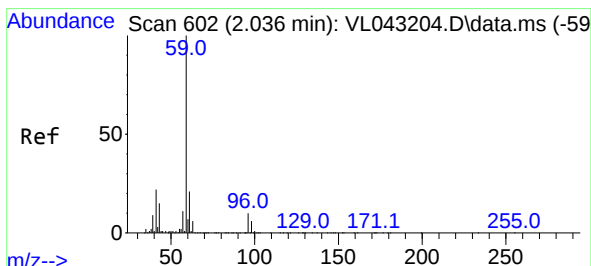
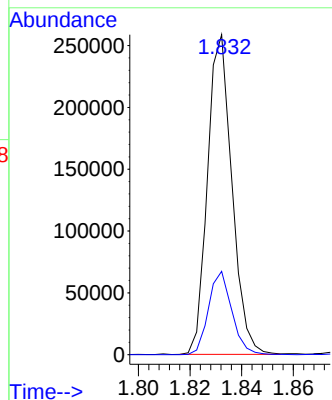
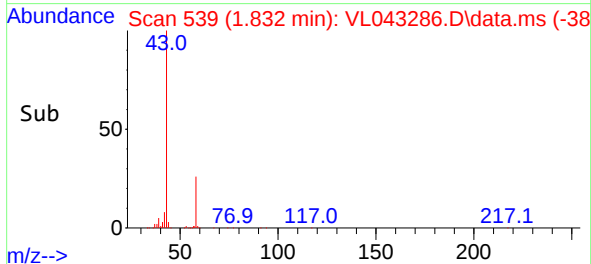
Instrument :
MSVOA_L
ClientSampleId :
SV1



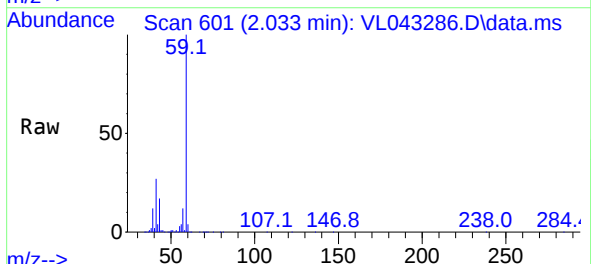
Tgt Ion: 43 Resp: 169885
Ion Ratio Lower Upper
43 100
58 25.2 20.7 31.1

Manual Integrations
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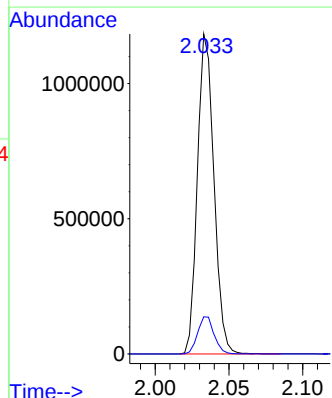
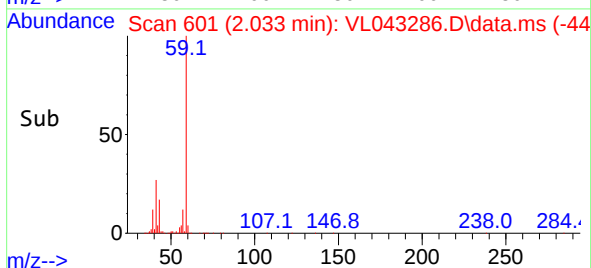
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

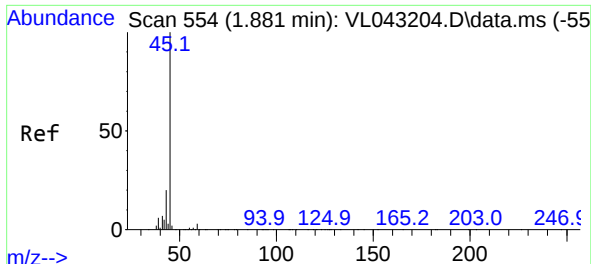


#17
tert-Butyl alcohol
Concen: 46.819 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



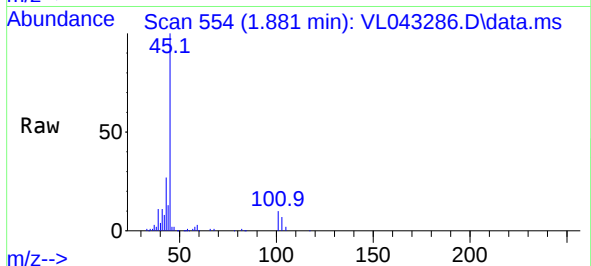
Tgt Ion: 59 Resp: 922575
Ion Ratio Lower Upper
59 100
57 11.6 9.0 13.4





#19
Isopropyl Alcohol
Concen: 2.329 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

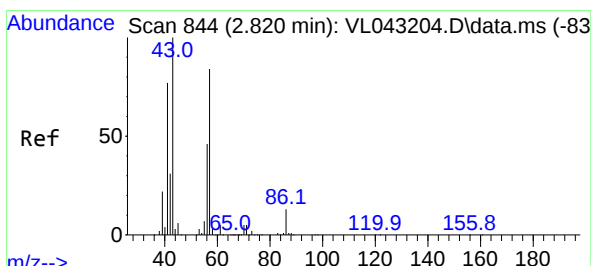
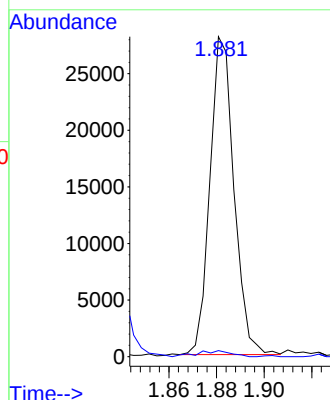
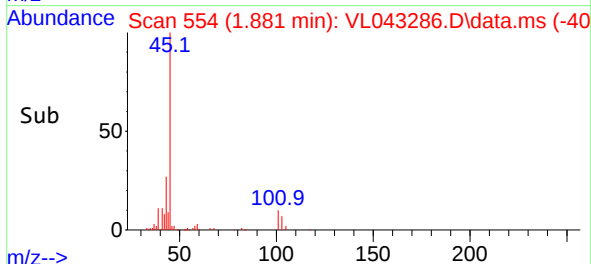
Instrument :
MSVOA_L
ClientSampleId :
SV1



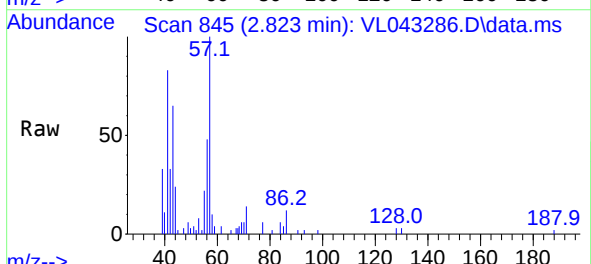
Tgt Ion: 45 Resp: 19750
Ion Ratio Lower Upper
45 100
58 217.0 31.3 46.9

Manual Integrations
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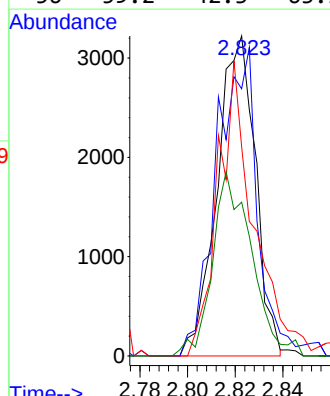
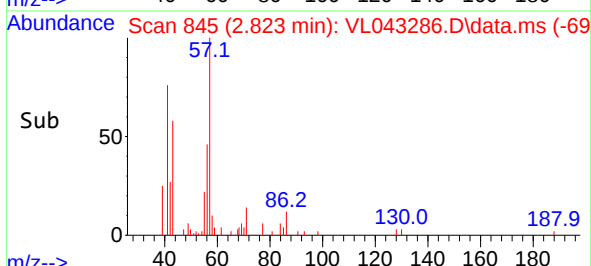
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

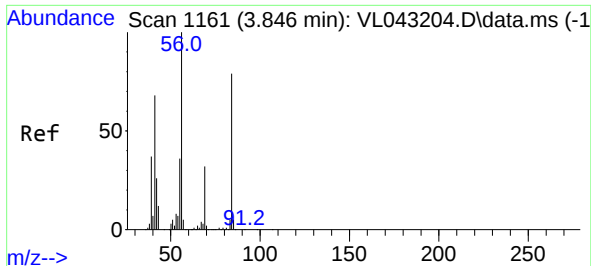


#26
Hexane
Concen: 0.253 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



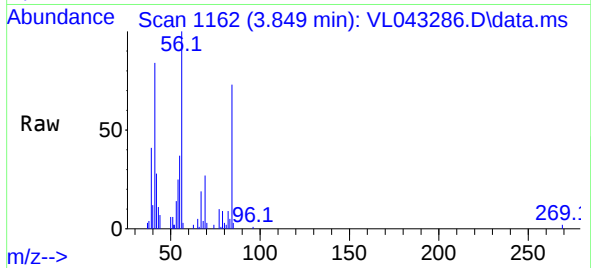
Tgt Ion: 57 Resp: 3588
Ion Ratio Lower Upper
57 100
41 105.4 74.6 111.8
43 89.5 179.0 268.4#
56 59.2 42.3 63.5





#30
Cyclohexane
Concen: 0.738 ppbv m
RT: 3.849 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

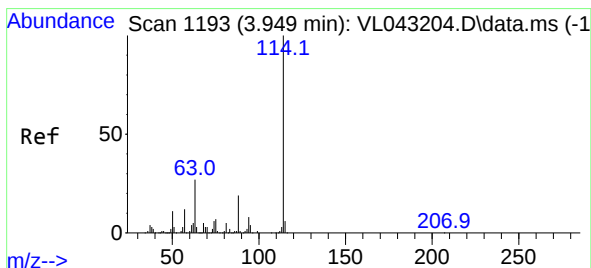
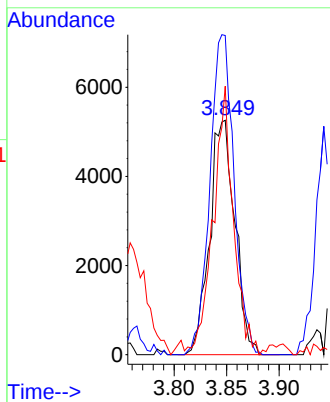
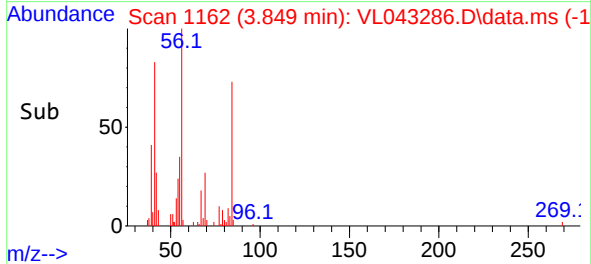
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 8784
Ion Ratio Lower Upper
84 100
56 130.9 104.7 157.1
41 95.3 69.0 103.6

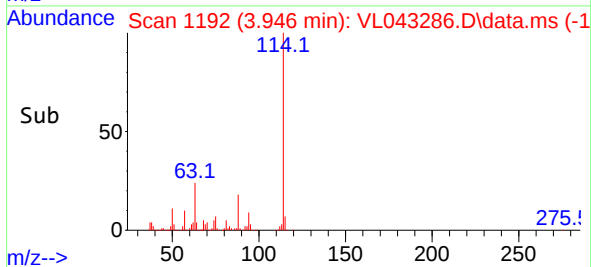
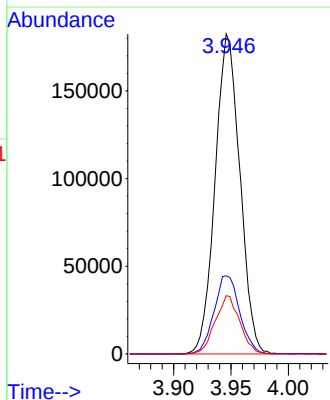
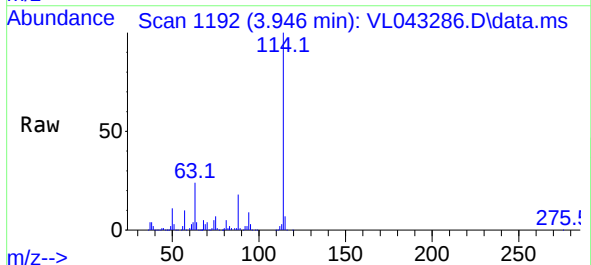
Manual Integrations
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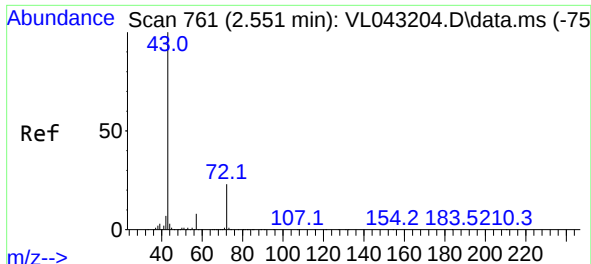
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Tgt Ion:114 Resp: 273893
Ion Ratio Lower Upper
114 100
63 25.5 21.0 31.6
88 18.0 14.9 22.3





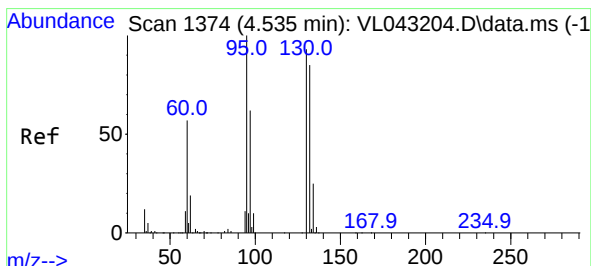
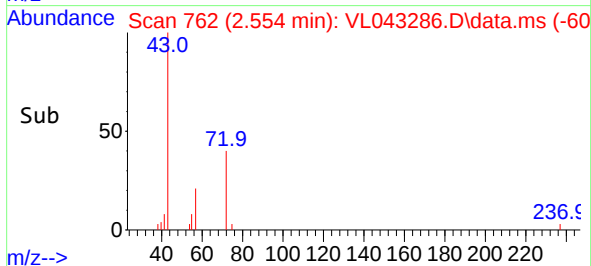
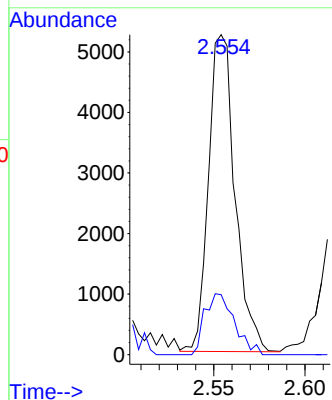
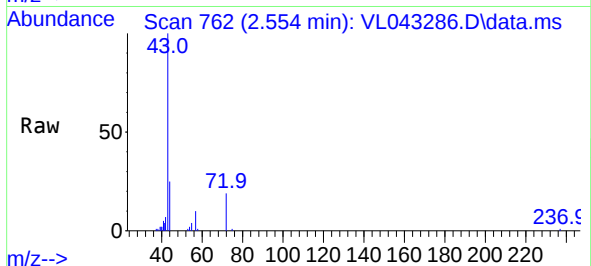
#34
2-Butanone
Concen: 0.274 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 5298
Ion Ratio Lower Upper
43 100
72 21.6 18.1 27.1

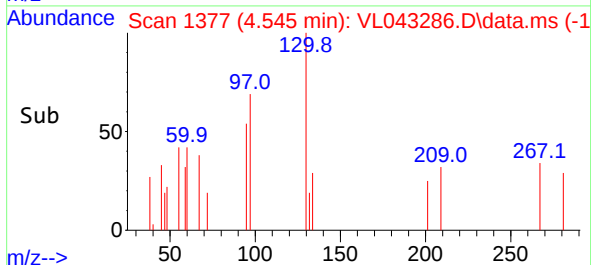
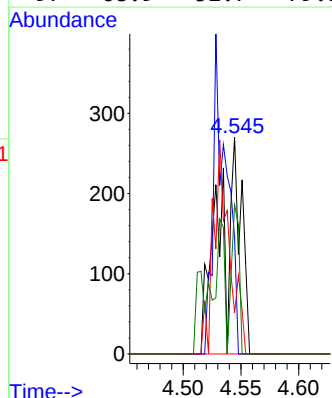
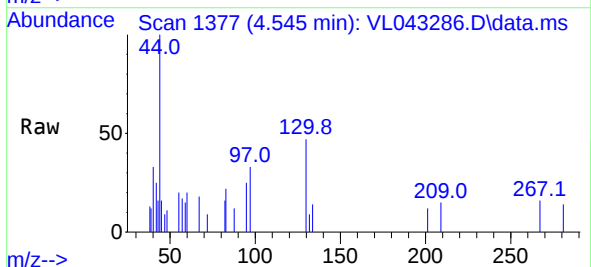
Manual Integrations
APPROVED

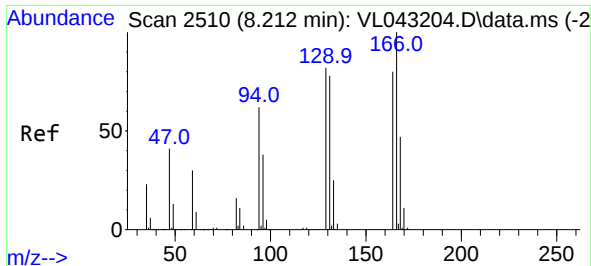
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.545 min Scan# 1377
Delta R.T. 0.010 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

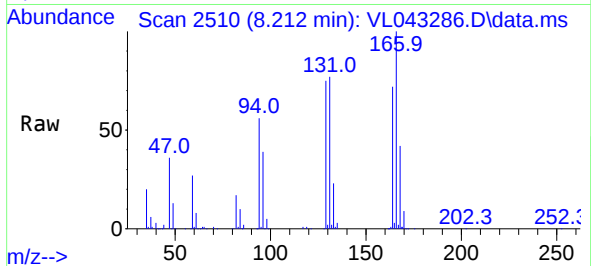
Tgt Ion:130 Resp: 354
Ion Ratio Lower Upper
130 100
95 53.7 85.7 128.5#
132 18.9 73.4 110.0#
97 68.9 52.7 79.1





#52
Tetrachloroethene
Concen: 5.741 ppbv
RT: 8.212 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

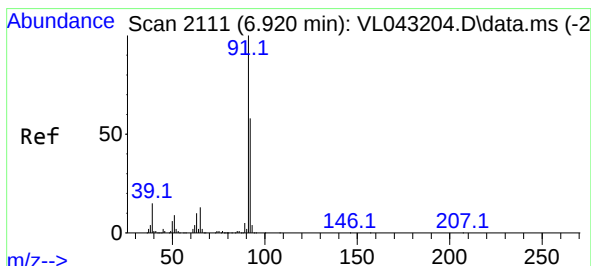
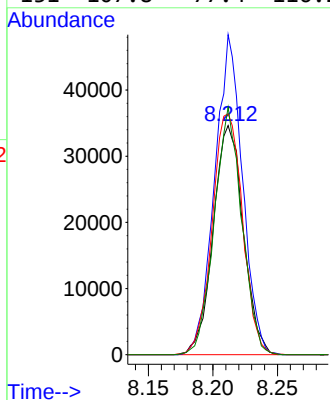
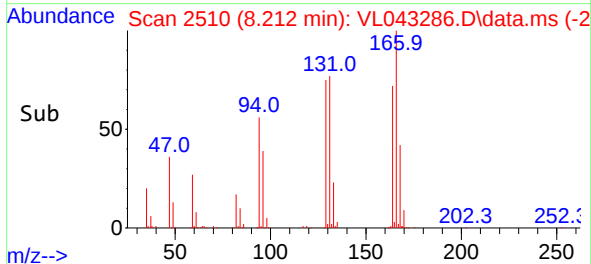
Instrument :
MSVOA_L
ClientSampleId :
SV1



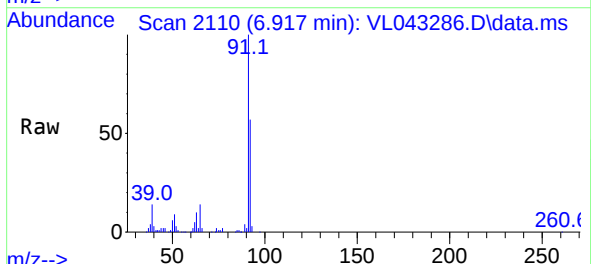
Tgt Ion:164 Resp: 56018
Ion Ratio Lower Upper
164 100
166 139.7 99.4 149.2
129 105.0 81.8 122.8
131 107.8 77.4 116.2

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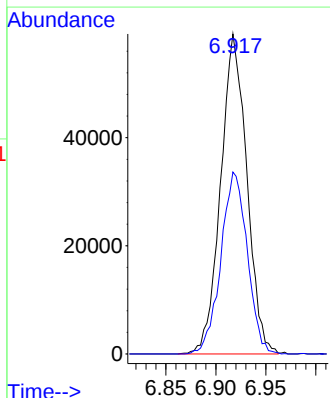
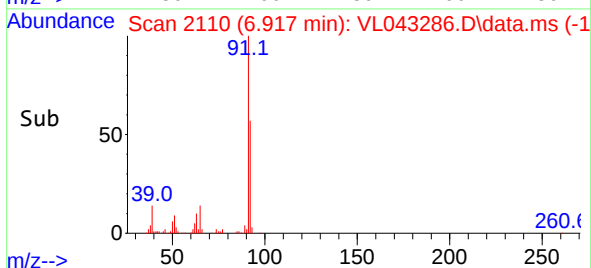
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

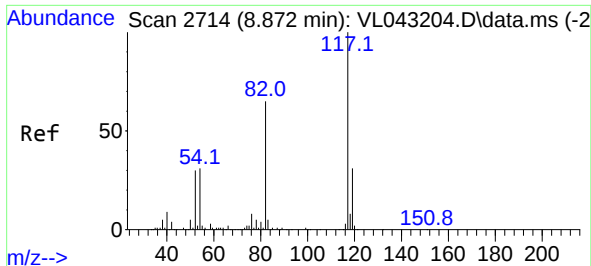


#53
Toluene
Concen: 3.464 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



Tgt Ion: 91 Resp: 107585
Ion Ratio Lower Upper
91 100
92 57.5 47.4 71.0





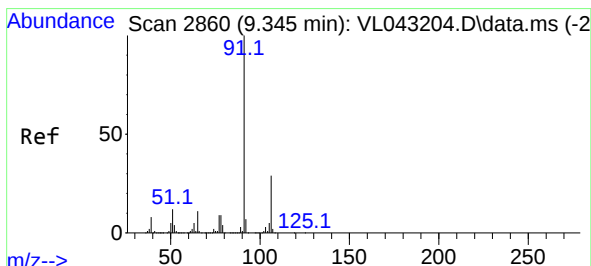
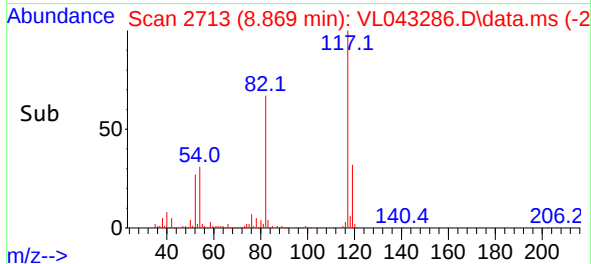
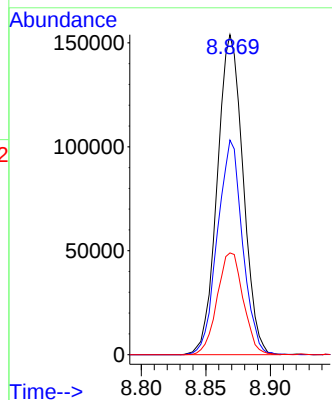
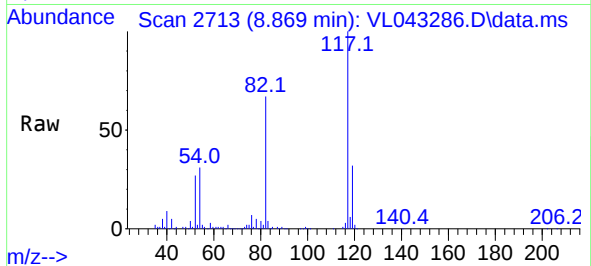
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21385
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 117 Resp: 21385
Ion Ratio Lower Upper
117 100
82 65.3 56.1 84.1
119 32.1 25.0 37.6

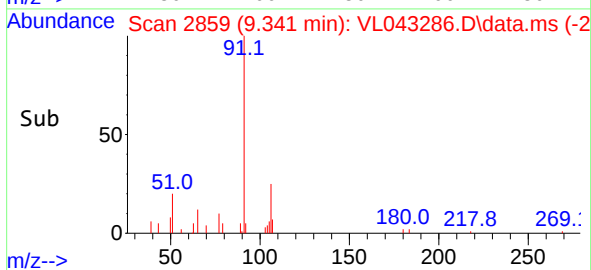
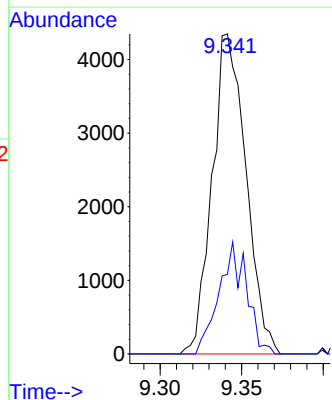
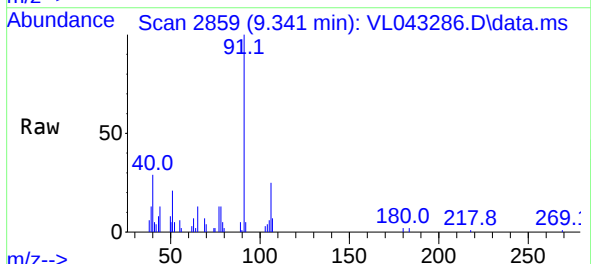
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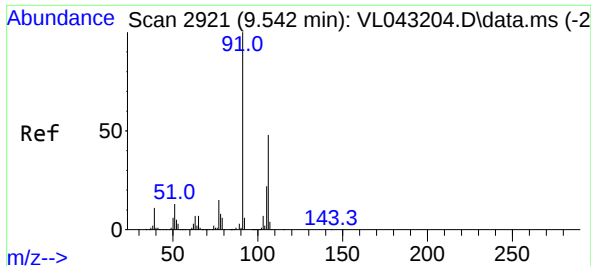
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#58
Ethyl Benzene
Concen: 0.152 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

Tgt Ion: 91 Resp: 6269
Ion Ratio Lower Upper
91 100
106 24.9 22.8 34.2





#59

m/p-Xylene

Concen: 0.442 ppbv

RT: 9.519 min Scan# 2914

Delta R.T. -0.023 min

Lab File: VL043286.D

Acq: 24 Nov 2025 17:15

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 14570

Ion Ratio Lower Upper

91 100

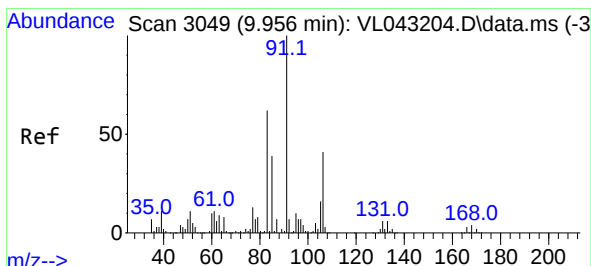
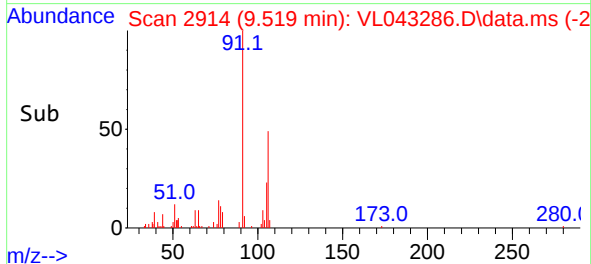
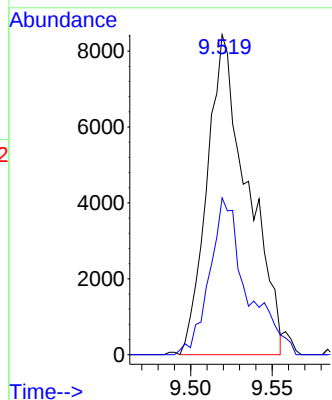
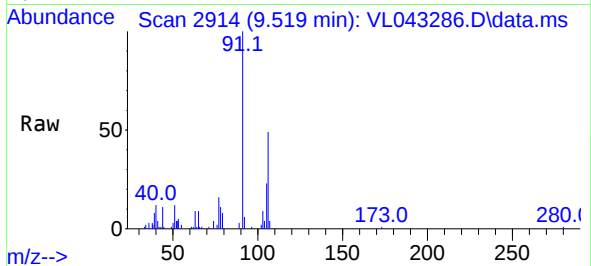
106 45.0 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#60

o-Xylene

Concen: 0.270 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.000 min

Lab File: VL043286.D

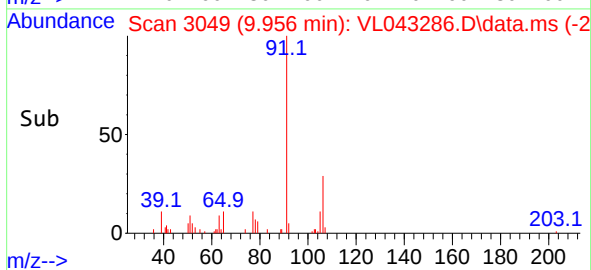
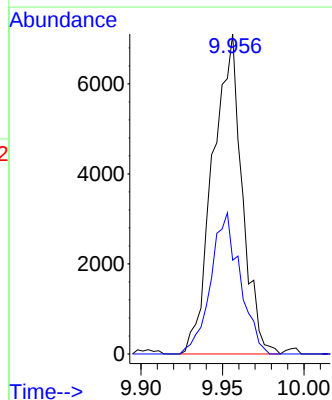
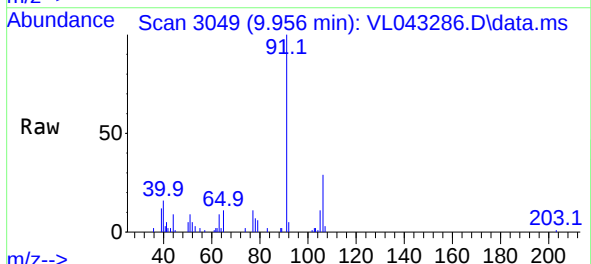
Acq: 24 Nov 2025 17:15

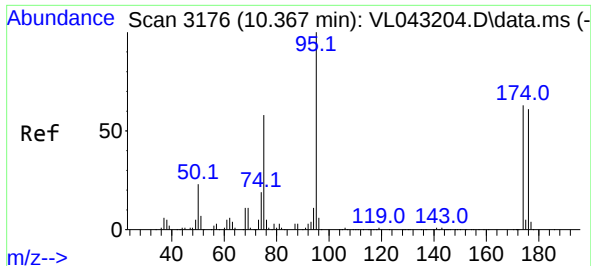
Tgt Ion: 91 Resp: 8900

Ion Ratio Lower Upper

91 100

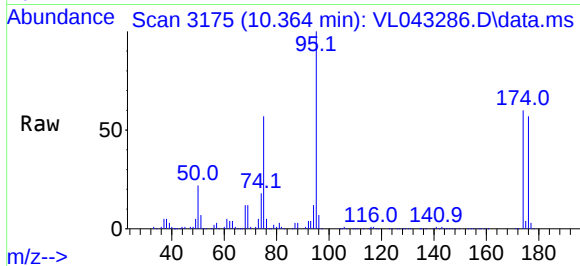
106 44.0 20.9 62.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15

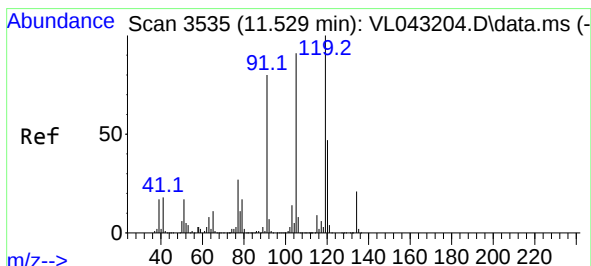
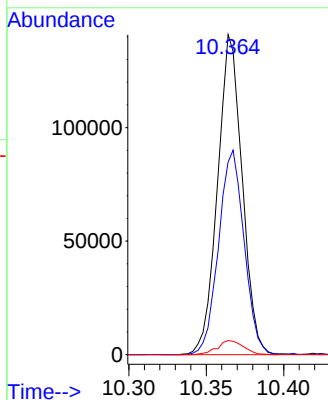
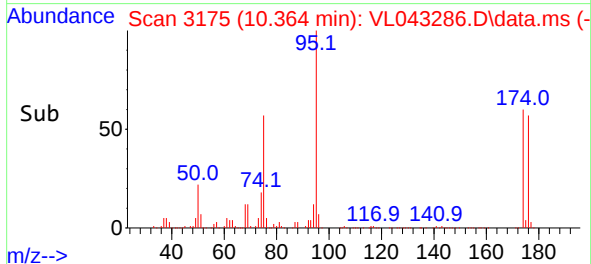
Instrument :
MSVOA_L
ClientSampleId :
SV1



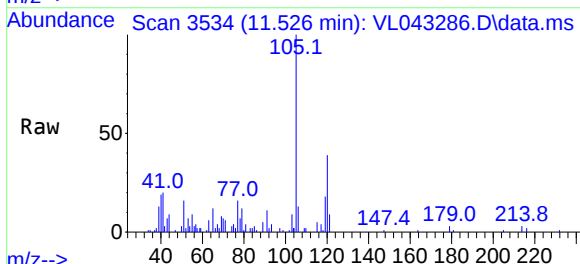
Tgt Ion: 95 Resp: 155789
Ion Ratio Lower Upper
95 100
174 66.7 50.2 75.2
175 4.7 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.234 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043286.D
Acq: 24 Nov 2025 17:15



Tgt Ion:105 Resp: 8604
Ion Ratio Lower Upper
105 100
120 38.6 41.7 62.5#
91 8.9 70.0 105.0#
77 14.9 23.8 35.8#

