

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043284.D
 Acq On : 24 Nov 2025 16:09
 Operator : SY/MD
 Sample : Q3696-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

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

Quant Time: Nov 24 23:41:57 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	109479	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	279354	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	212021	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	146433	9.422	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7796	0.505	ppbv	91
3) Chlorodifluoromethane	1.473	51	3540m	0.233	ppbv	
4) Chloromethane	1.531	50	4629	0.802	ppbv	92
9) Propene	1.486	41	10165	1.576	ppbv #	1
11) Trichlorofluoromethane	1.874	101	4256	0.284	ppbv	99
13) Ethanol	1.719	45	74123	32.689	ppbv	100
15) Acetone	1.832	43	83602	5.496	ppbv	98
17) tert-Butyl alcohol	2.036	59	2274	0.114	ppbv #	81
19) Isopropyl Alcohol	1.881	45	16706	1.944	ppbv #	1
20) Methylene Chloride	2.059	84	6632	0.754	ppbv	89
26) Hexane	2.819	57	7152	0.497	ppbv #	45
29) Chloroform	2.839	83	8627	0.422	ppbv	94
34) 2-Butanone	2.554	43	10550	0.535	ppbv	95
35) Carbon Tetrachloride	3.748	117	2177m	0.103	ppbv	
36) Benzene	3.645	78	5586	0.209	ppbv #	90
38) Trichloroethene	4.535	130	507m	0.048	ppbv	
41) Tetrahydrofuran	3.052	42	2261	0.208	ppbv	93
52) Tetrachloroethene	8.215	164	760m	0.076	ppbv	

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

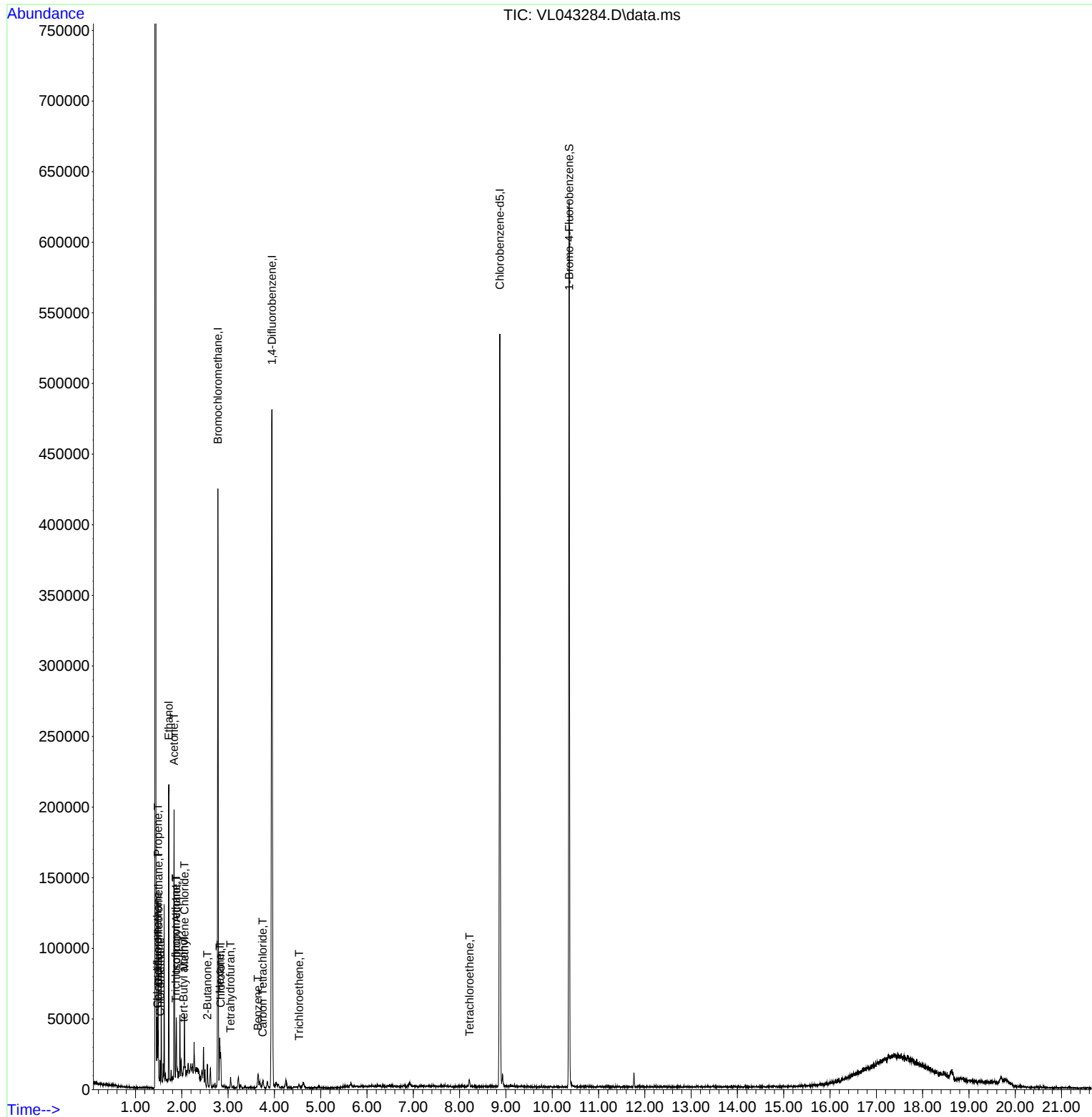
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
Data File : VL043284.D
Acq On : 24 Nov 2025 16:09
Operator : SY/MD
Sample : Q3696-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

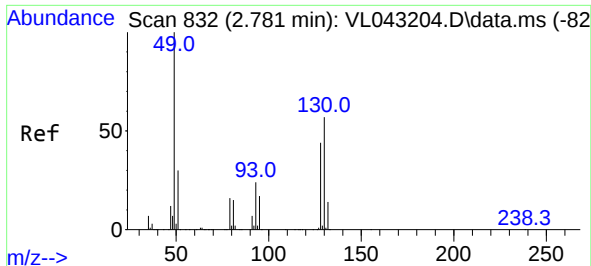
Instrument :
MSVOA_L
ClientSampleId :
IA3

Quant Time: Nov 24 23:41:57 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
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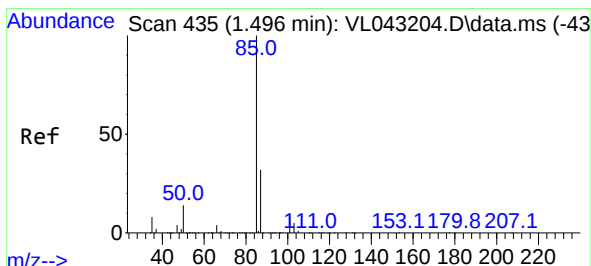
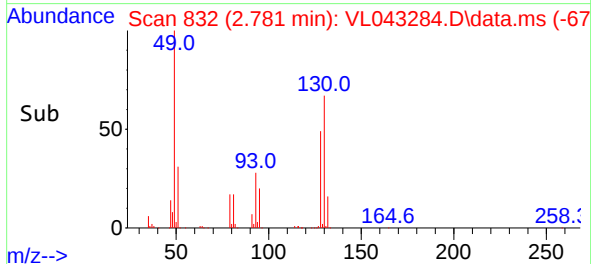
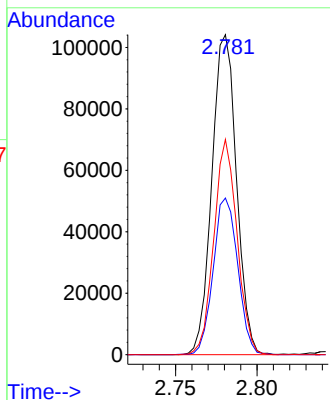
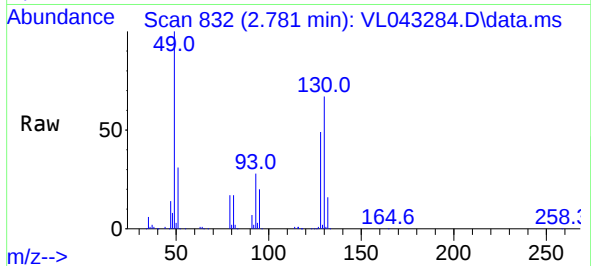
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 49 Resp: 109479
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 63.5 29.9 89.7

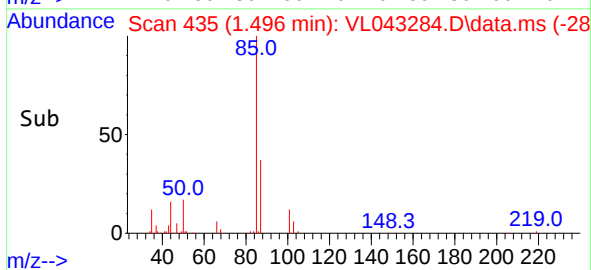
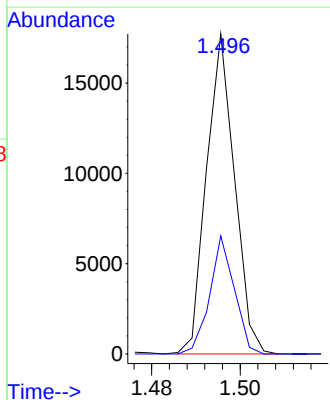
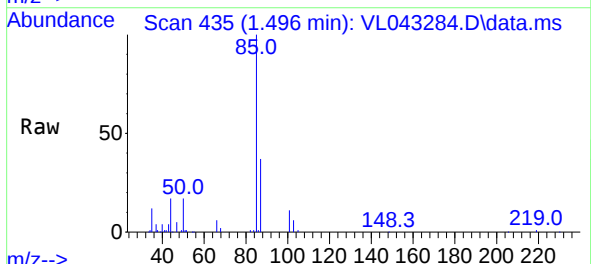
Manual Integrations
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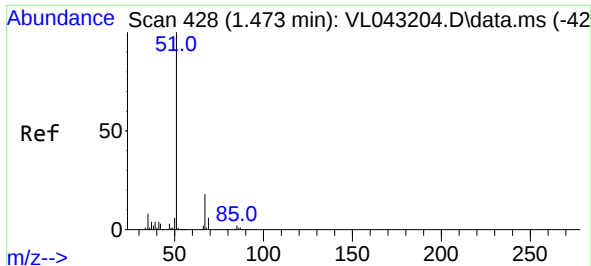
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.505 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

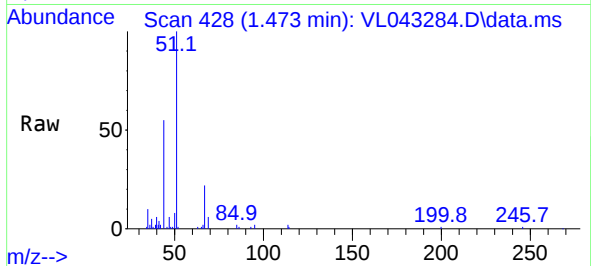
Tgt Ion: 85 Resp: 7796
Ion Ratio Lower Upper
85 100
87 36.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.233 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

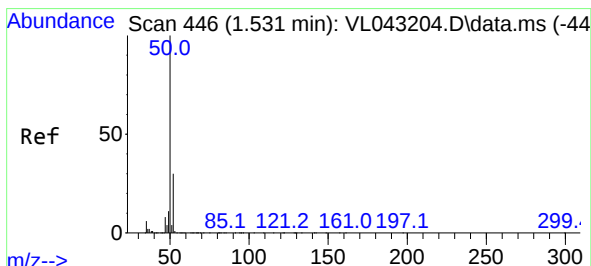
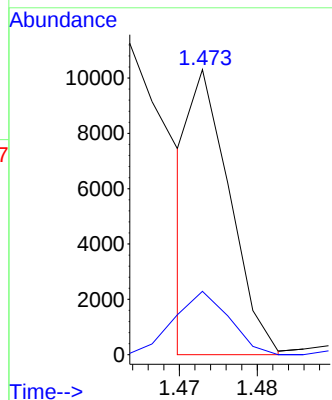
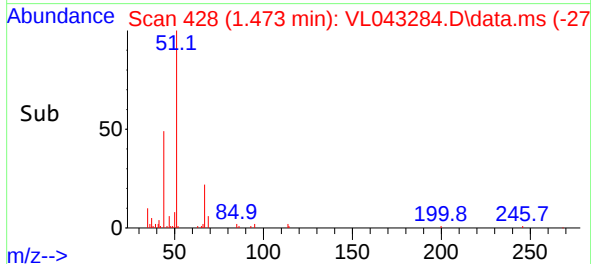
Instrument :
MSVOA_L
ClientSampleId :
IA3



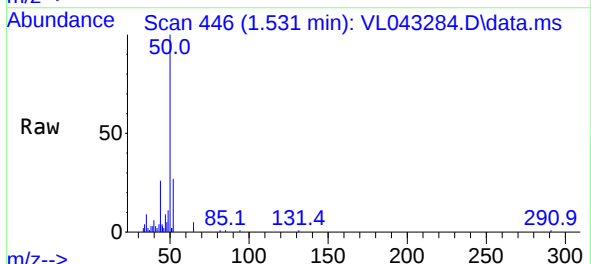
Tgt Ion: 51 Resp: 3540
Ion Ratio Lower Upper
51 100
67 35.4 14.9 22.3

Manual Integrations
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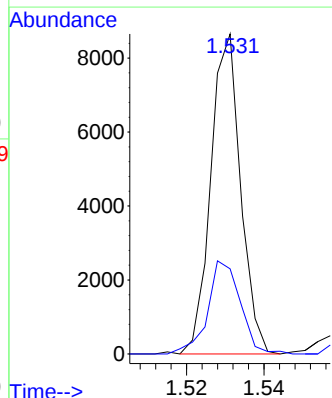
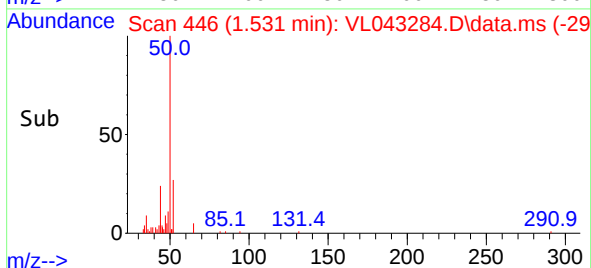
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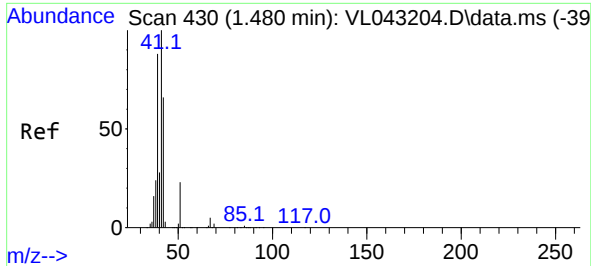


#4
Chloromethane
Concen: 0.802 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



Tgt Ion: 50 Resp: 4629
Ion Ratio Lower Upper
50 100
52 25.8 24.1 36.1





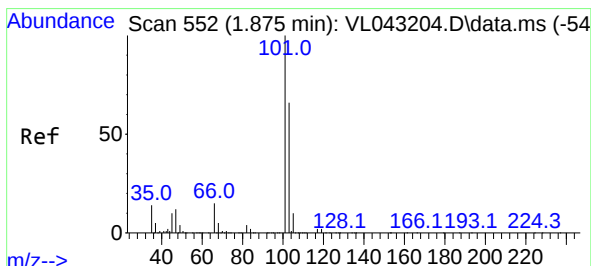
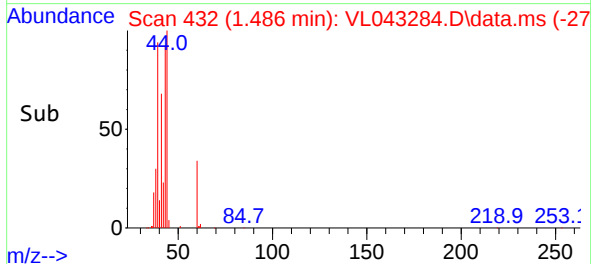
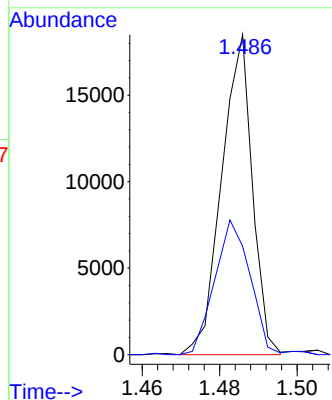
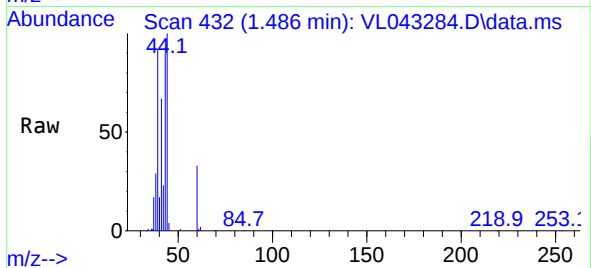
#9
Propene
Concen: 1.576 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 41 Resp: 1016
Ion Ratio Lower Upper
41 100
42 49.4 3.7 5.5

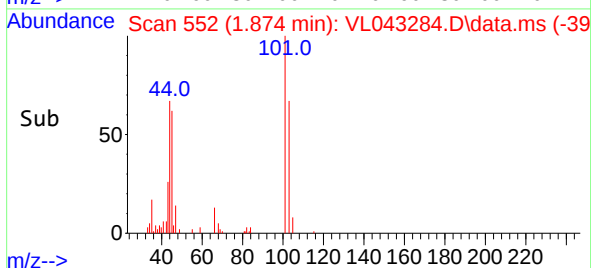
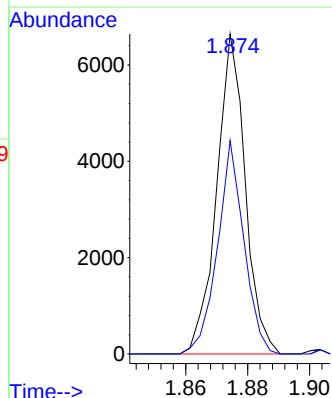
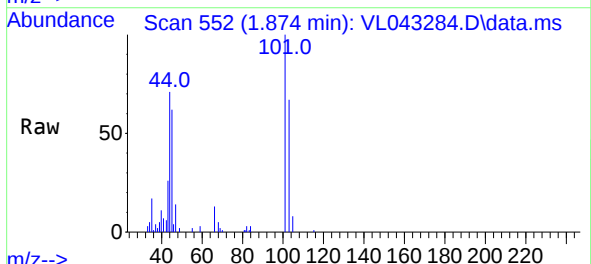
Manual Integrations
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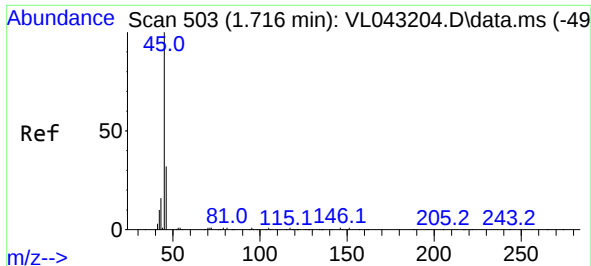
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#11
Trichlorofluoromethane
Concen: 0.284 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Tgt Ion:101 Resp: 4256
Ion Ratio Lower Upper
101 100
103 66.7 52.6 79.0





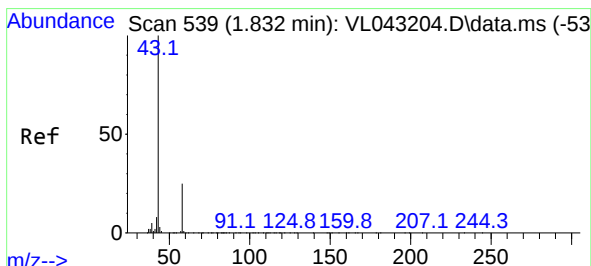
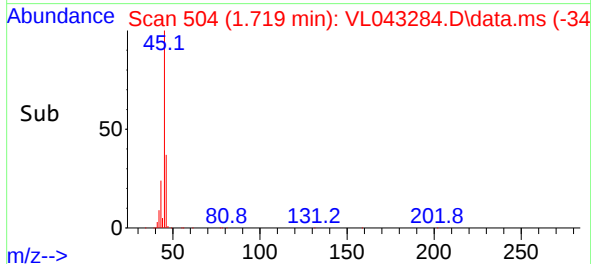
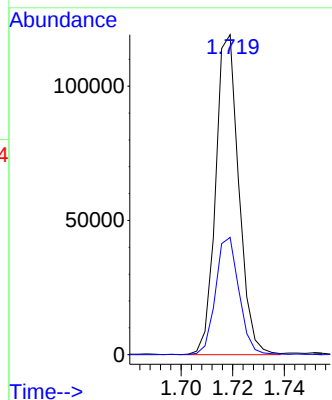
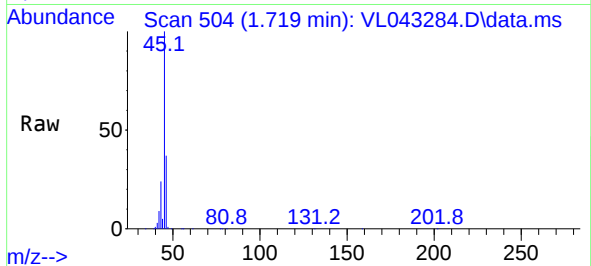
#13
Ethanol
Concen: 32.689 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 74123
Ion Ratio Lower Upper
45 100
46 37.6 15.0 59.8

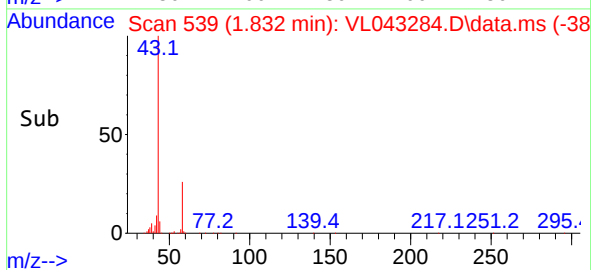
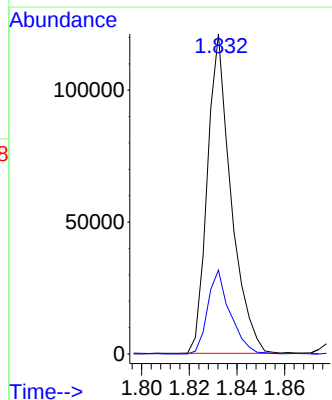
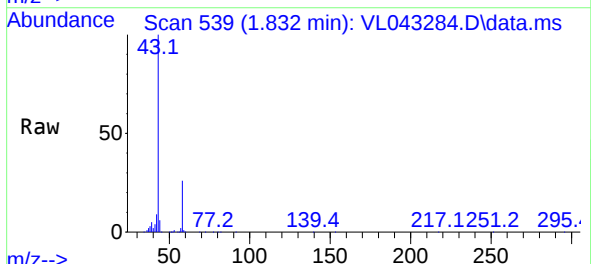
Manual Integrations
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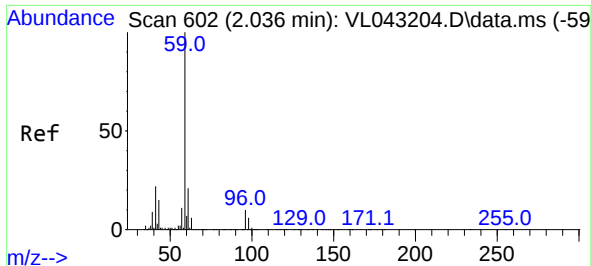
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#15
Acetone
Concen: 5.496 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

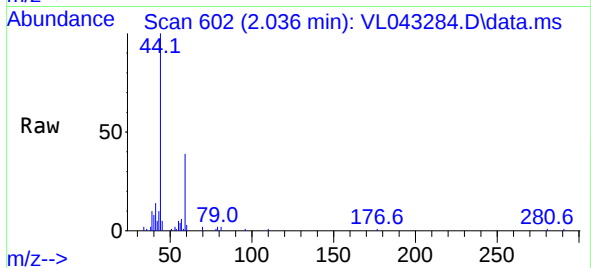
Tgt Ion: 43 Resp: 83602
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.114 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

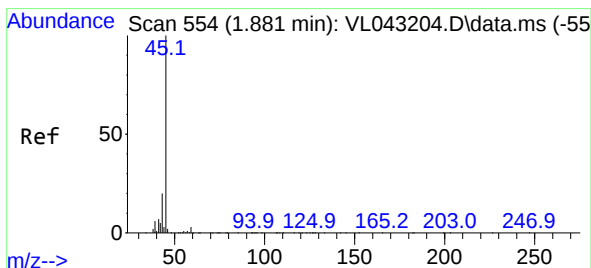
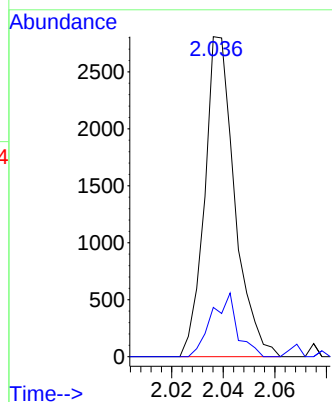
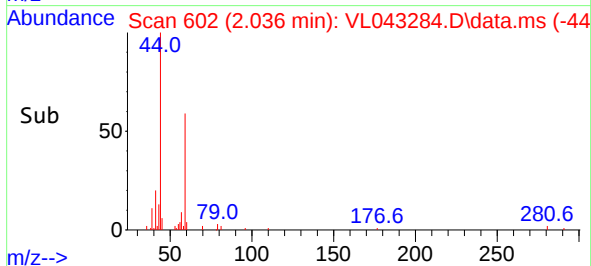
Instrument :
MSVOA_L
ClientSampleId :
IA3



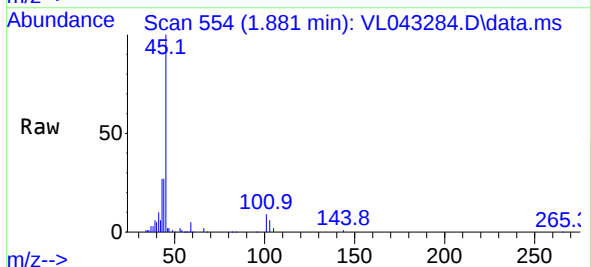
Tgt Ion: 59 Resp: 2274
Ion Ratio Lower Upper
59 100
57 18.5 9.0 13.4

Manual Integrations
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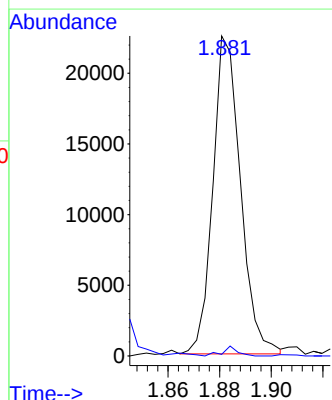
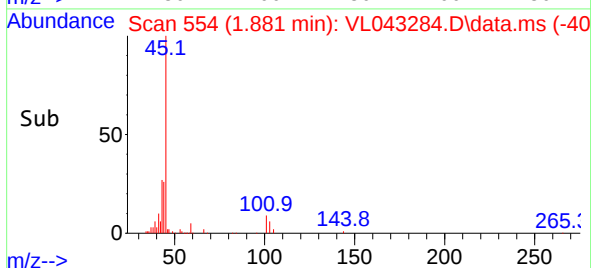
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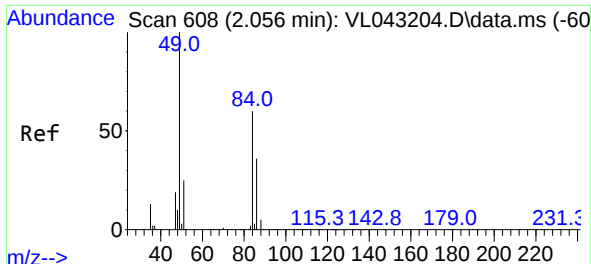


#19
Isopropyl Alcohol
Concen: 1.944 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



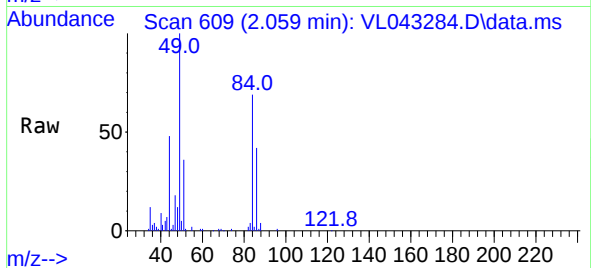
Tgt Ion: 45 Resp: 16706
Ion Ratio Lower Upper
45 100
58 124.9 31.3 46.9





#20
Methylene Chloride
Concen: 0.754 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

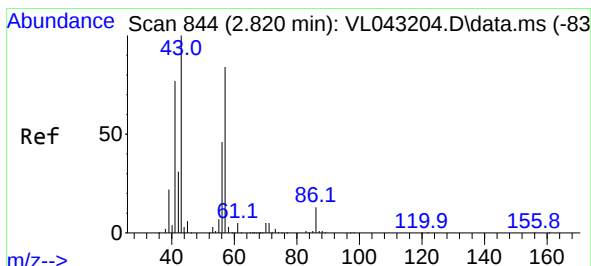
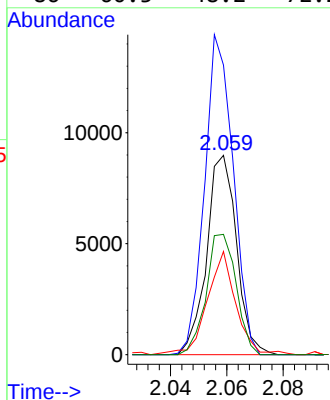
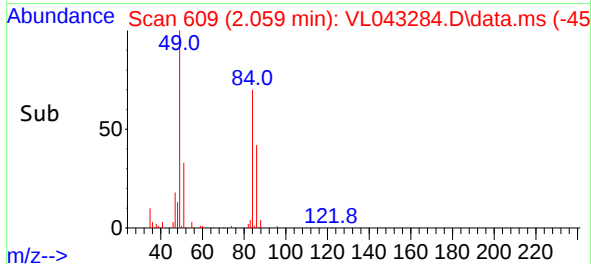
Instrument :
MSVOA_L
ClientSampleId :
IA3



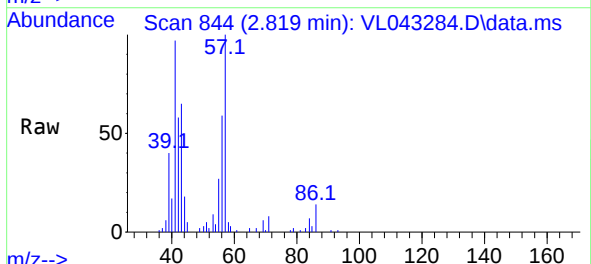
Tgt Ion: 84 Resp: 6632
Ion Ratio Lower Upper
84 100
49 145.2 132.9 199.3
51 50.1 34.8 52.2
86 60.3 48.2 72.2

Manual Integrations
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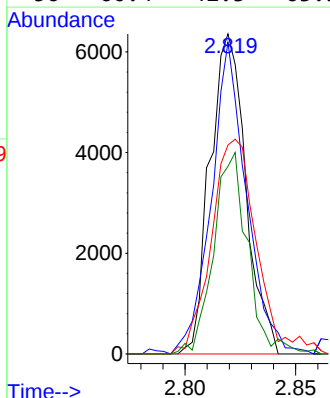
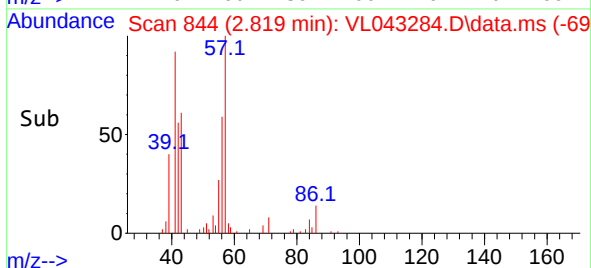
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Supervised By :Mahesh Dadoda 11/25/2025

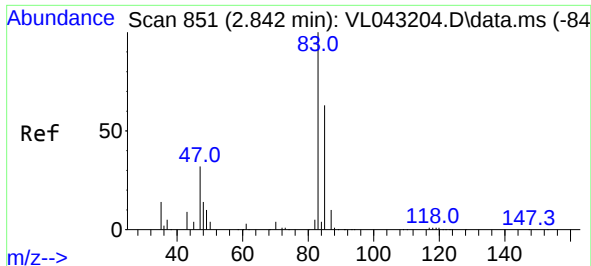


#26
Hexane
Concen: 0.497 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



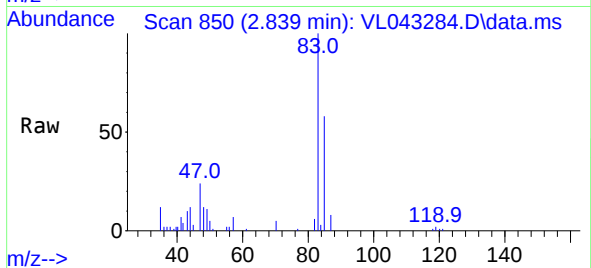
Tgt Ion: 57 Resp: 7152
Ion Ratio Lower Upper
57 100
41 101.9 74.6 111.8
43 85.8 179.0 268.4#
56 60.4 42.3 63.5





#29
Chloroform
Concen: 0.422 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

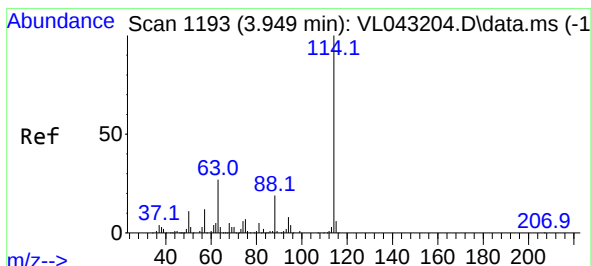
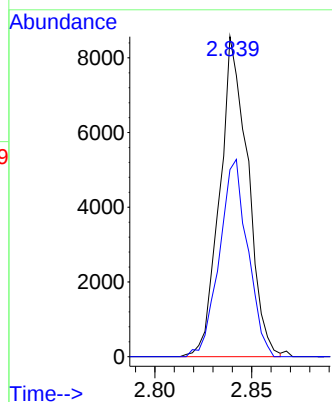
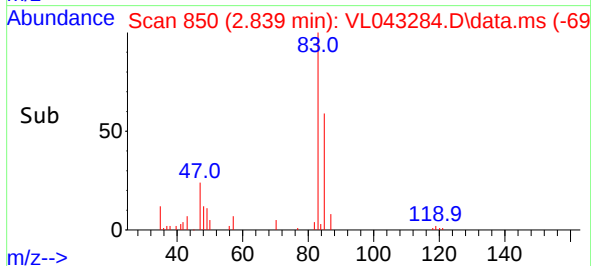
Instrument :
MSVOA_L
ClientSampleId :
IA3



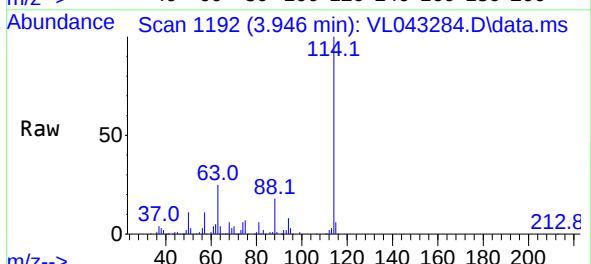
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Ion Ratio Lower Upper
83 100
85 58.4 50.5 75.7

Manual Integrations
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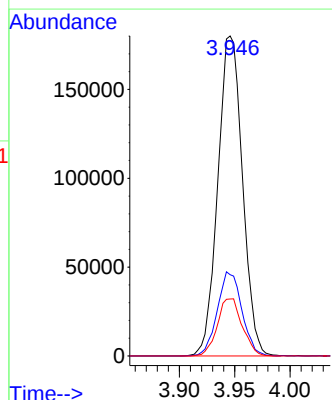
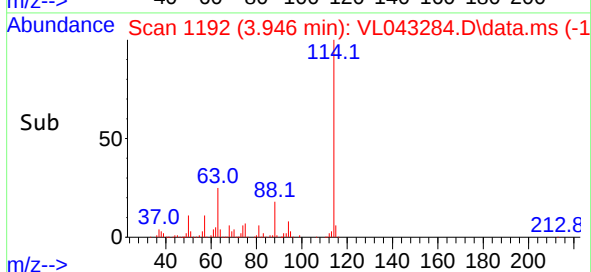
Reviewed By :Semsettin Yesilyurt 11/25/2025
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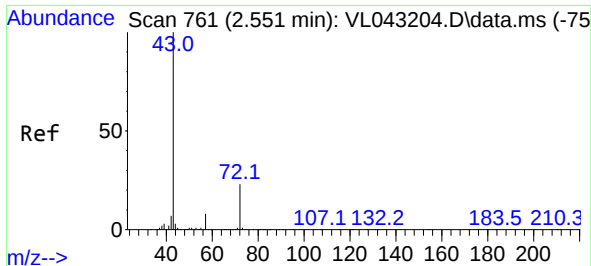


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



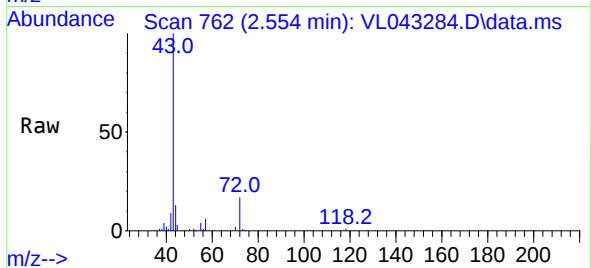
Tgt Ion:114 Resp: 279354
Ion Ratio Lower Upper
114 100
63 26.2 21.0 31.6
88 18.0 14.9 22.3





#34
2-Butanone
Concen: 0.535 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

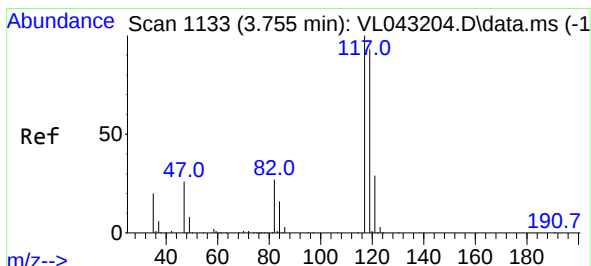
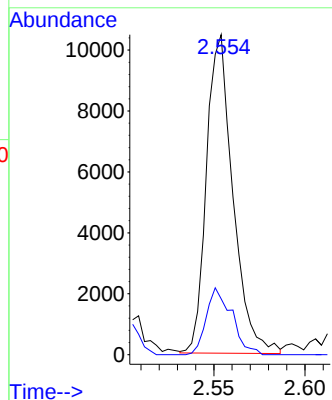
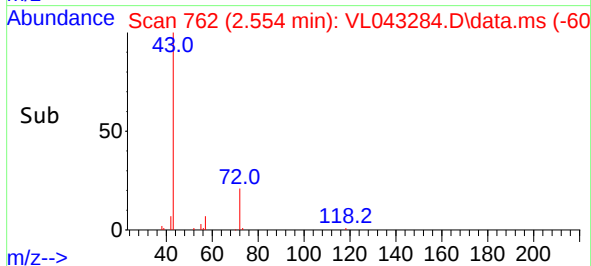
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 10550
Ion Ratio Lower Upper
43 100
72 20.3 18.1 27.1

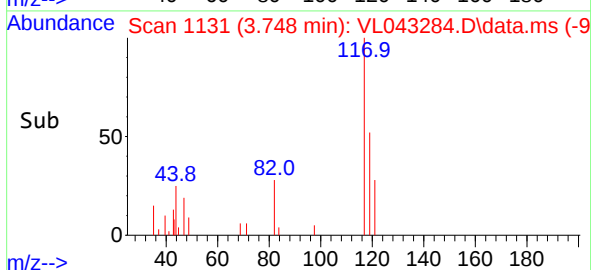
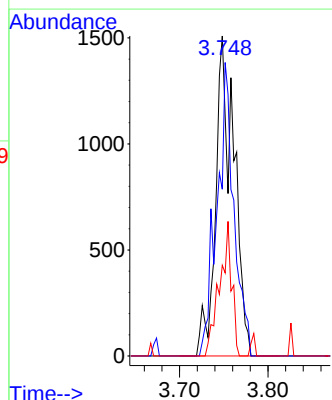
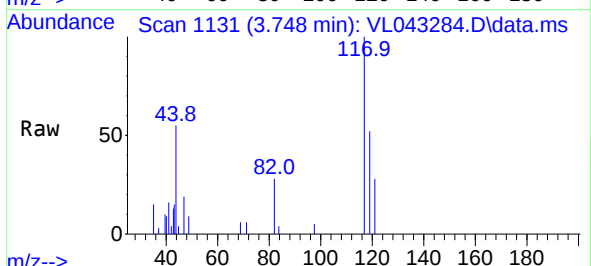
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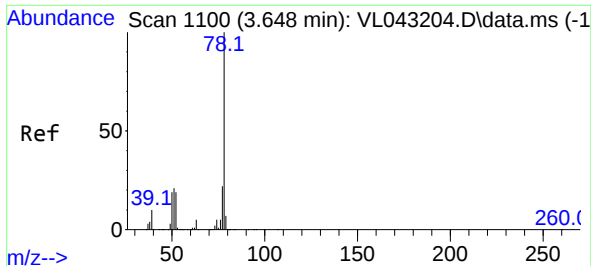
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.103 ppbv m
RT: 3.748 min Scan# 1131
Delta R.T. -0.007 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

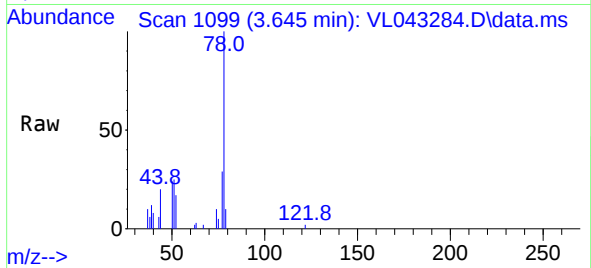
Tgt Ion:117 Resp: 2177
Ion Ratio Lower Upper
117 100
119 52.1 74.6 112.0#
121 28.4 23.2 34.8





#36
Benzene
Concen: 0.209 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

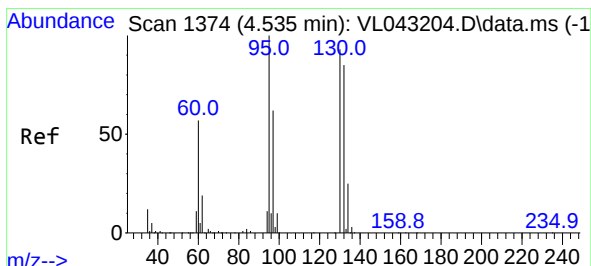
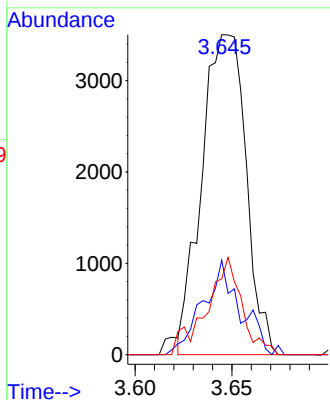
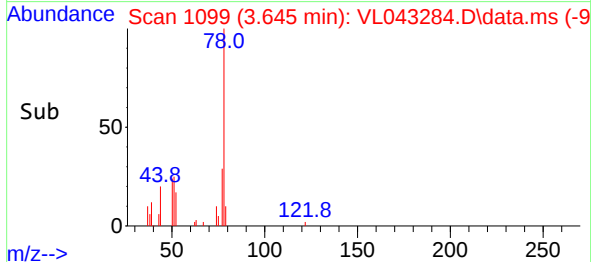
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 78 Resp: 5580
Ion Ratio Lower Upper
78 100
77 26.6 17.5 26.3
50 23.7 15.5 23.3

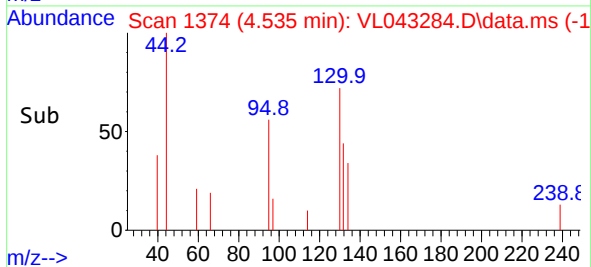
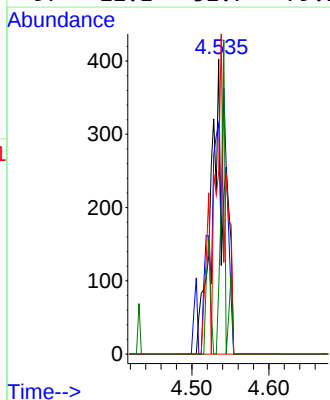
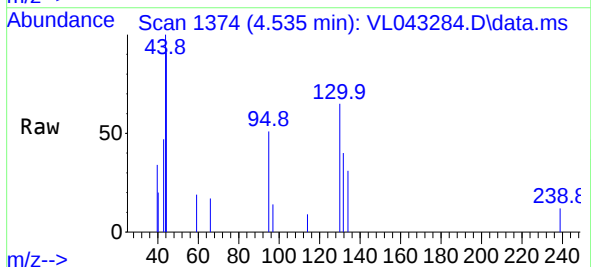
Manual Integrations
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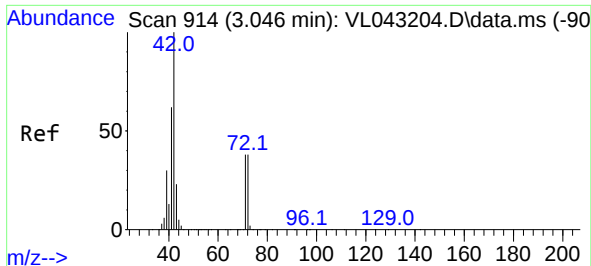
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 4.535 min Scan# 1374
Delta R.T. -0.000 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

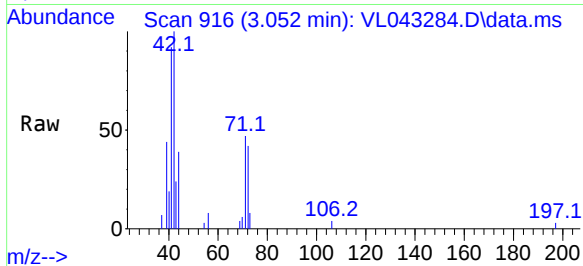
Tgt Ion:130 Resp: 507
Ion Ratio Lower Upper
130 100
95 78.2 85.7 128.5#
132 61.5 73.4 110.0#
97 22.1 52.7 79.1#





#41
Tetrahydrofuran
Concen: 0.208 ppbv
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

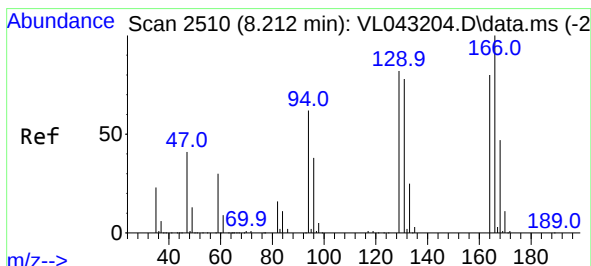
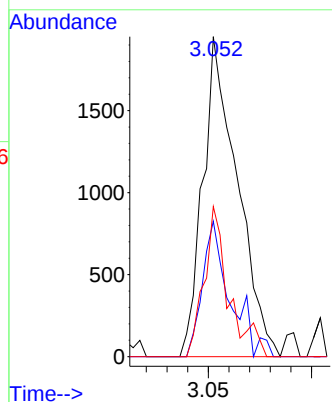
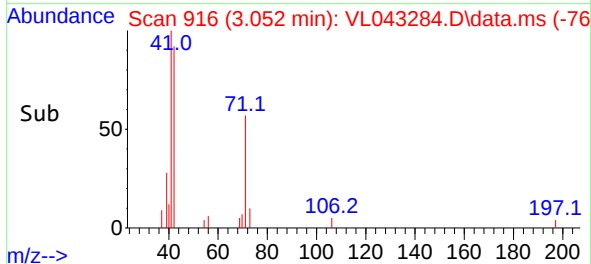
Instrument :
MSVOA_L
ClientSampleId :
IA3



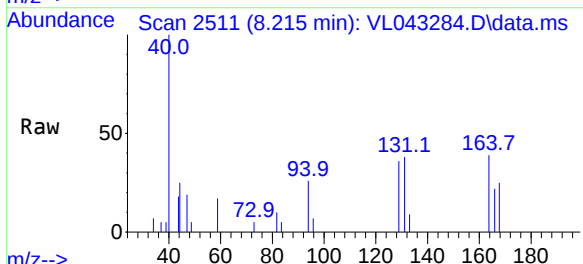
Tgt Ion: 42 Resp: 226
Ion Ratio Lower Upper
42 100
72 34.1 30.6 46.0
71 33.3 30.5 45.7

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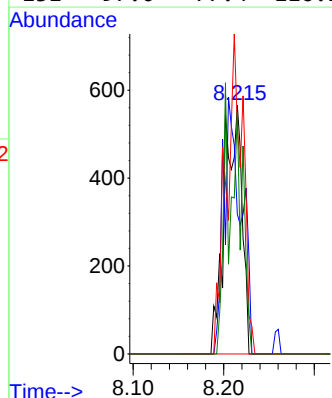
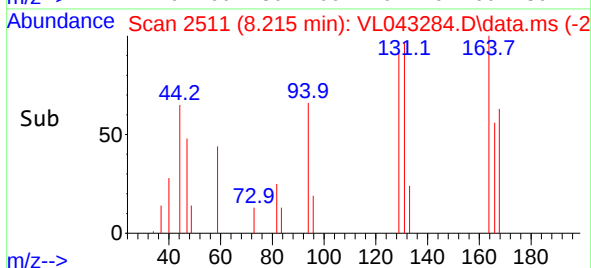
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

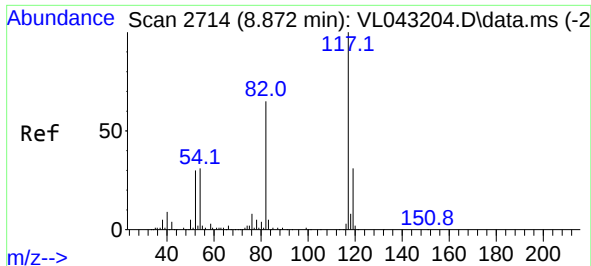


#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09



Tgt Ion:164 Resp: 760
Ion Ratio Lower Upper
164 100
166 56.2 99.4 149.2#
129 91.5 81.8 122.8
131 97.0 77.4 116.2





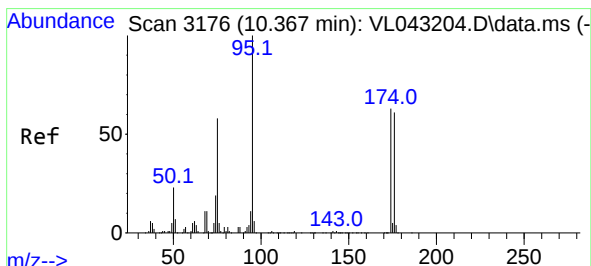
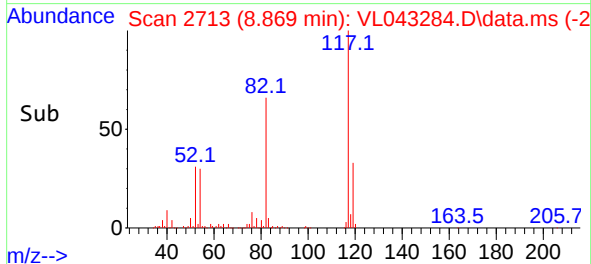
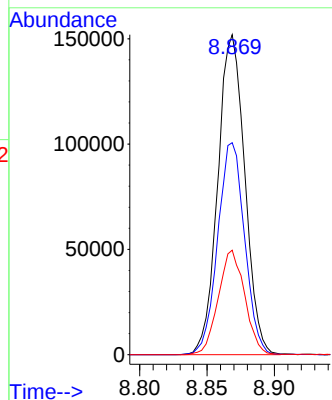
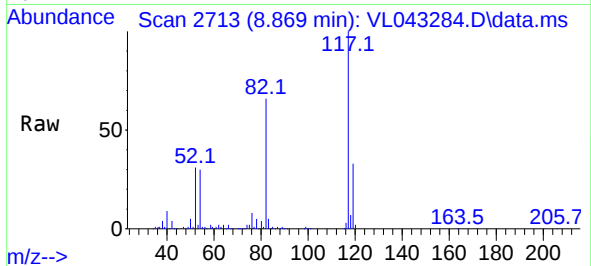
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21202
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:117 Resp: 21202
Ion Ratio Lower Upper
117 100
82 66.0 56.1 84.1
119 32.1 25.0 37.6

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.422 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VL043284.D
Acq: 24 Nov 2025 16:09

Tgt Ion: 95 Resp: 146433
Ion Ratio Lower Upper
95 100
174 66.1 50.2 75.2
175 4.8 4.1 6.1

