

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043281.D
 Acq On : 24 Nov 2025 14:26
 Operator : SY/MD
 Sample : Q3696-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Nov 24 23:40:35 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)

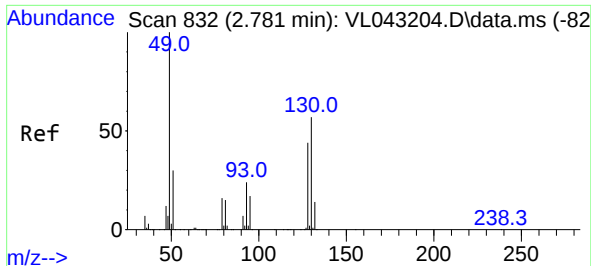
Internal Standards						
1) Bromochloromethane	2.784	49	107070	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	286434	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	213639	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	156431	9.989	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8110	0.537	ppbv	100
3) Chlorodifluoromethane	1.470	51	4263m	0.287	ppbv	
4) Chloromethane	1.531	50	3550	0.629	ppbv	97
9) Propene	1.486	41	8650	1.372	ppbv #	1
10) Heptane	4.969	43	2495m	0.133	ppbv	
11) Trichlorofluoromethane	1.878	101	4727m	0.323	ppbv	
13) Ethanol	1.719	45	45204	20.384	ppbv	100
15) Acetone	1.836	43	72977	4.906	ppbv	93
19) Isopropyl Alcohol	1.884	45	17025	2.025	ppbv #	8
20) Methylene Chloride	2.062	84	7532	1.013	ppbv #	84
26) Hexane	2.823	57	9567	0.680	ppbv #	68
30) Cyclohexane	3.849	84	1664m	0.141	ppbv	
34) 2-Butanone	2.557	43	10274	0.508	ppbv	93
35) Carbon Tetrachloride	3.755	117	1876m	0.086	ppbv	
36) Benzene	3.651	78	10334	0.377	ppbv	96
41) Tetrahydrofuran	3.056	42	4214m	0.377	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	12506	0.265	ppbv #	85
52) Tetrachloroethene	8.212	164	1283m	0.126	ppbv	
53) Toluene	6.927	91	16036m	0.494	ppbv	
58) Ethyl Benzene	9.348	91	7478	0.182	ppbv	96
59) m/p-Xylene	9.526	91	20727	0.629	ppbv	99
60) o-Xylene	9.953	91	6764	0.205	ppbv	96
74) 1,2,4-Trimethylbenzene	11.526	105	5120	0.139	ppbv #	52

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

Manual Integrations

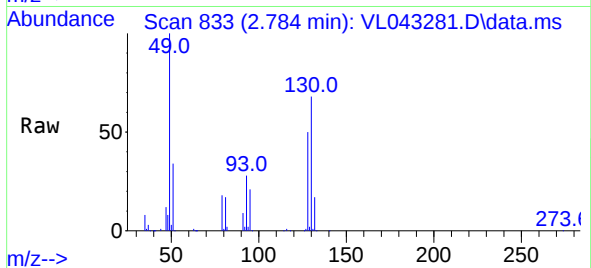
Quant Time: Nov 24 23:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

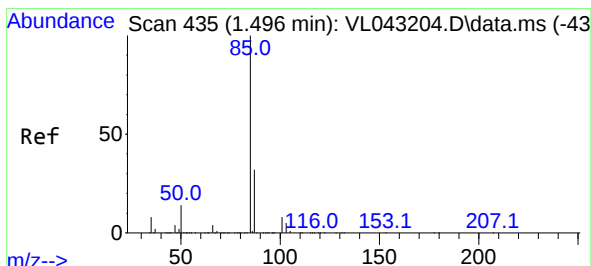
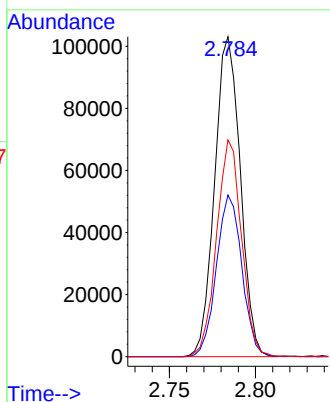
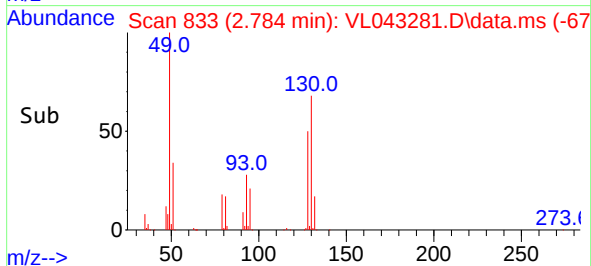
Instrument :
MSVOA_L
ClientSampleId :
IA1



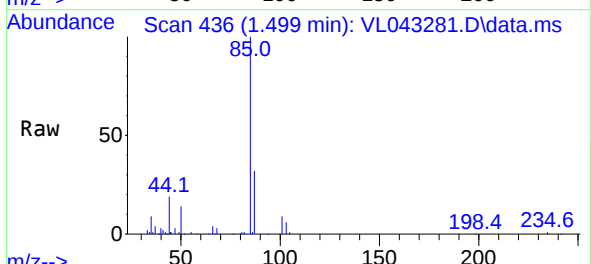
Tgt Ion: 49 Resp: 107070
Ion Ratio Lower Upper
49 100
128 50.1 23.0 69.0
130 65.9 29.9 89.7

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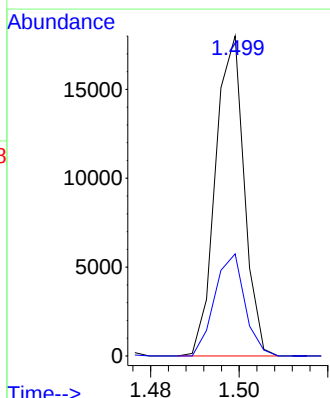
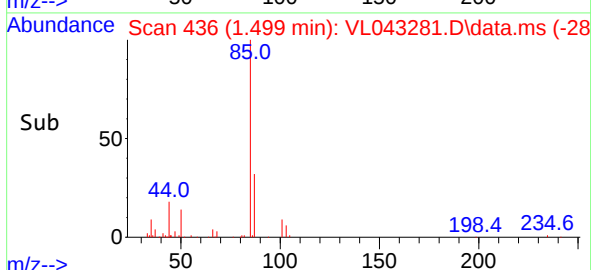
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

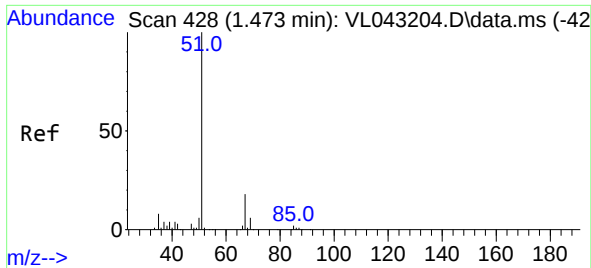


#2
Dichlorodifluoromethane
Concen: 0.537 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



Tgt Ion: 85 Resp: 8110
Ion Ratio Lower Upper
85 100
87 31.9 25.4 38.2





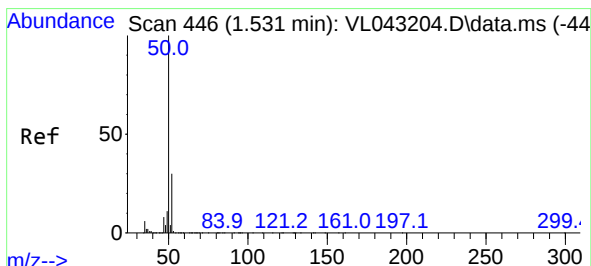
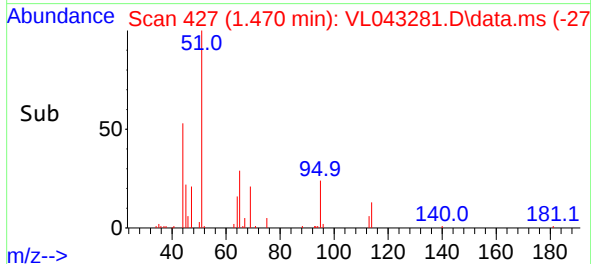
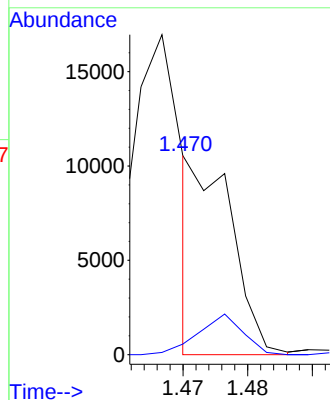
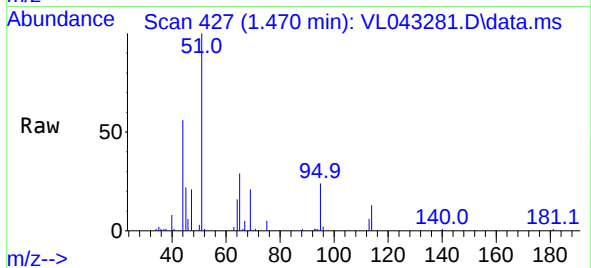
#3
Chlorodifluoromethane
Concen: 0.287 ppbv m
RT: 1.470 min Scan# 426
Delta R.T. -0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 426
Ion Ratio Lower Upper
51 100
67 2.9 14.9 22.3

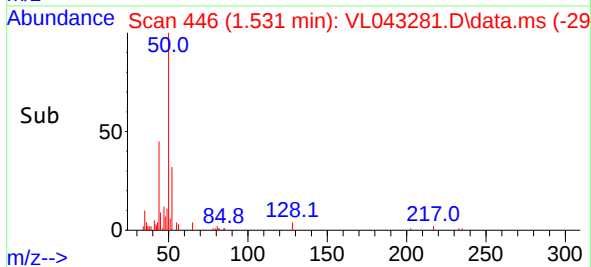
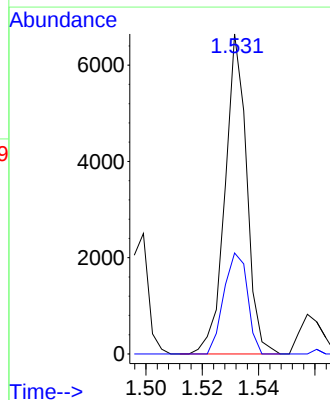
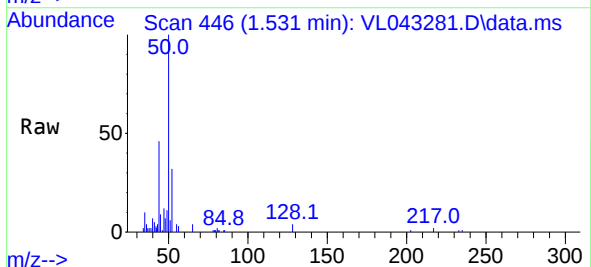
Manual Integrations
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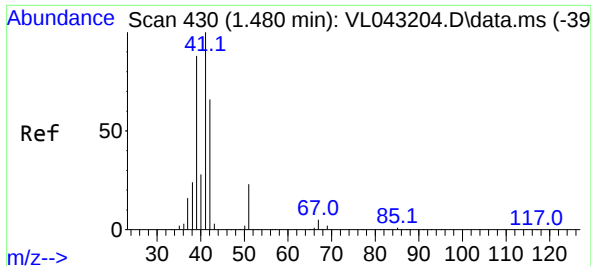
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 0.629 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

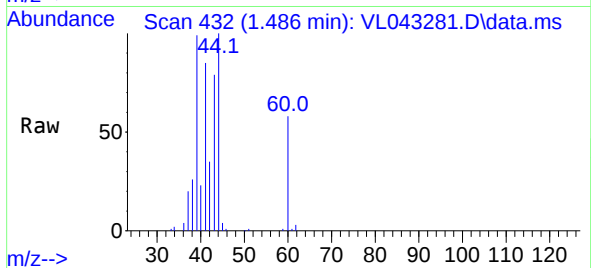
Tgt Ion: 50 Resp: 3550
Ion Ratio Lower Upper
50 100
52 31.6 24.1 36.1





#9
 Propene
 Concen: 1.372 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL043281.D
 Acq: 24 Nov 2025 14:26

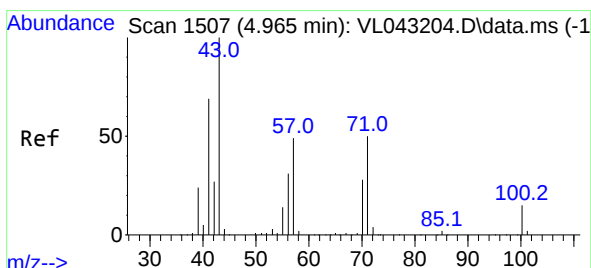
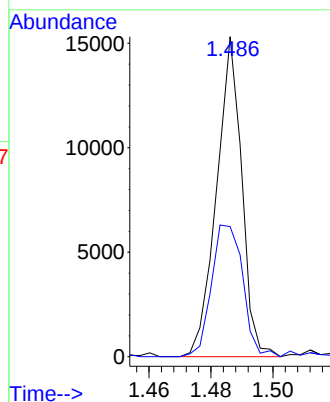
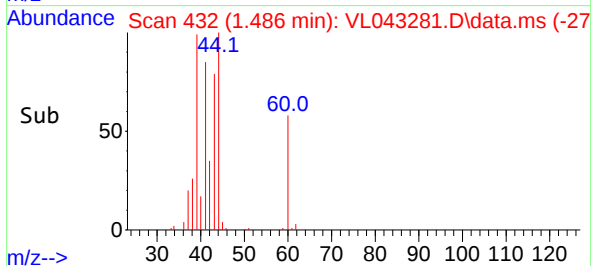
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 8650
 Ion Ratio Lower Upper
 41 100
 42 53.6 3.7 5.5

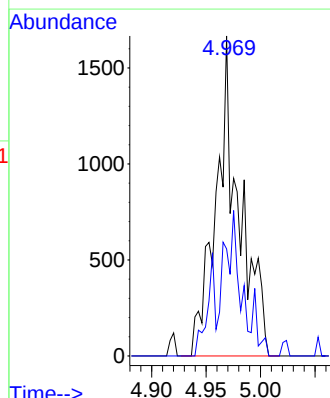
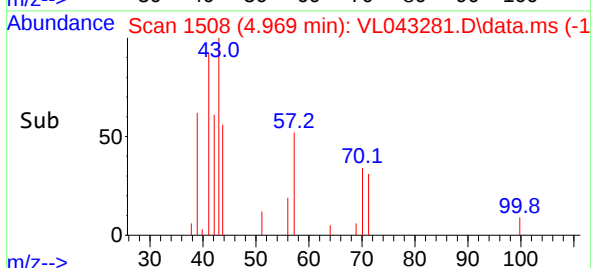
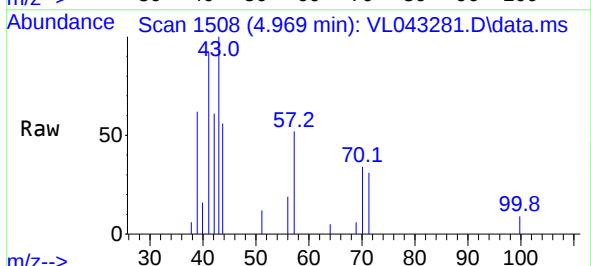
Manual Integrations
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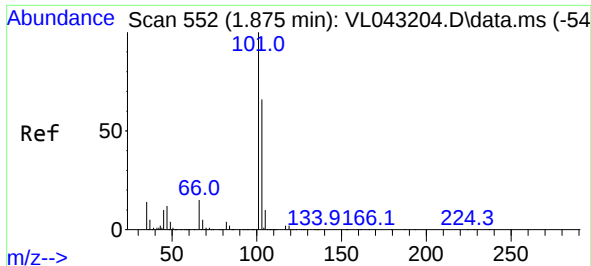
Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025



#10
 Heptane
 Concen: 0.133 ppbv m
 RT: 4.969 min Scan# 1508
 Delta R.T. 0.003 min
 Lab File: VL043281.D
 Acq: 24 Nov 2025 14:26

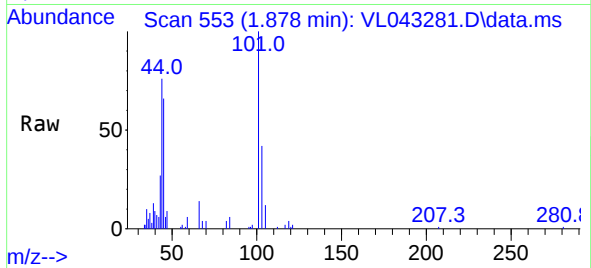
Tgt Ion: 43 Resp: 2495
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.323 ppbv m
RT: 1.878 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

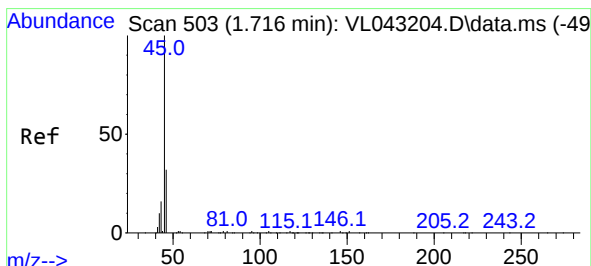
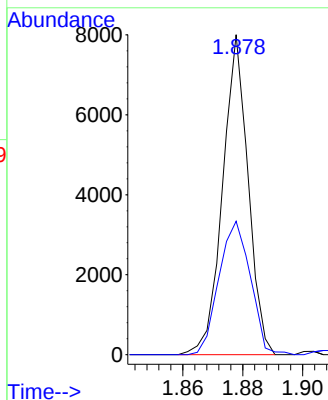
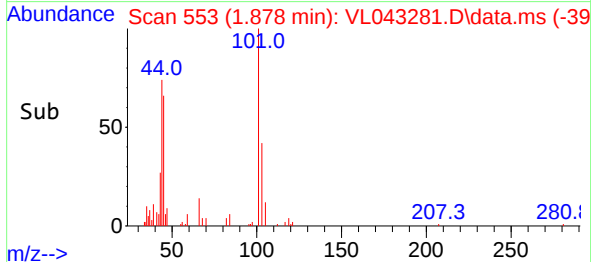
Instrument :
MSVOA_L
ClientSampleId :
IA1



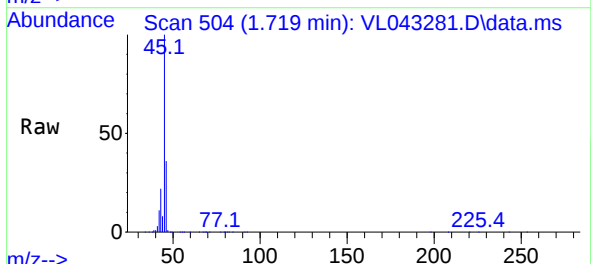
Tgt Ion:101 Resp: 472
Ion Ratio Lower Upper
101 100
103 41.7 52.6 79.0

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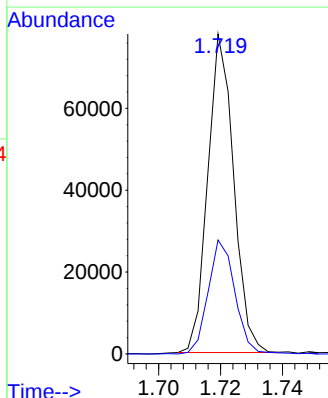
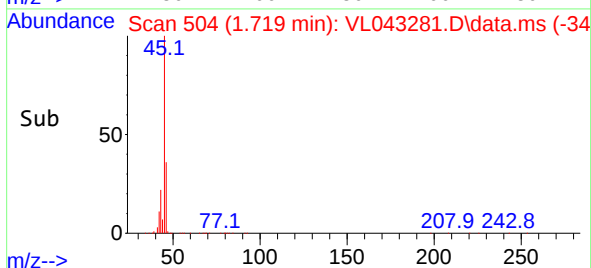
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

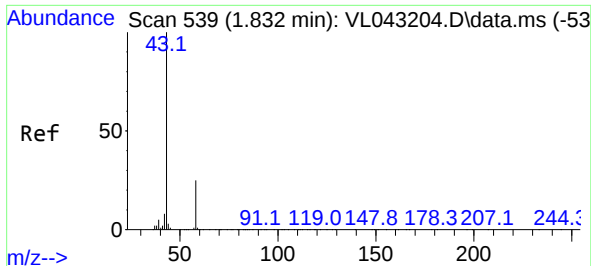


#13
Ethanol
Concen: 20.384 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



Tgt Ion: 45 Resp: 45204
Ion Ratio Lower Upper
45 100
46 37.2 15.0 59.8





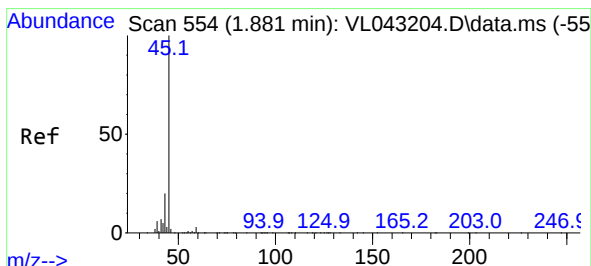
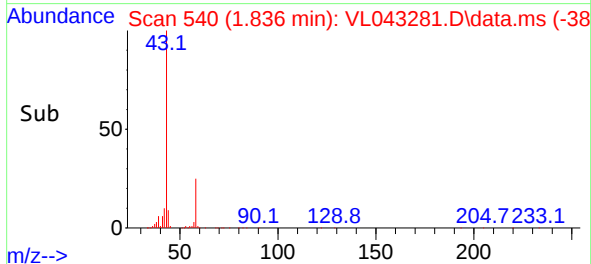
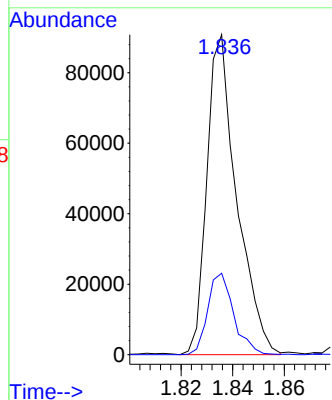
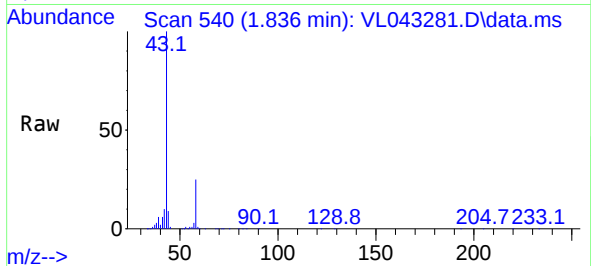
#15
Acetone
Concen: 4.906 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 7297
Ion Ratio Lower Upper
43 100
58 22.2 20.7 31.1

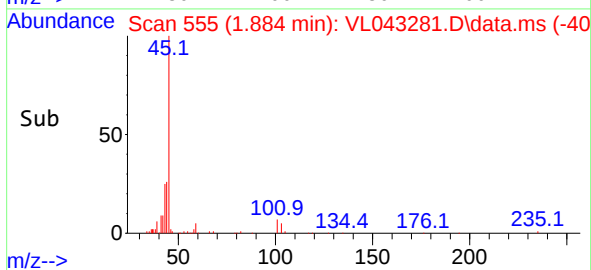
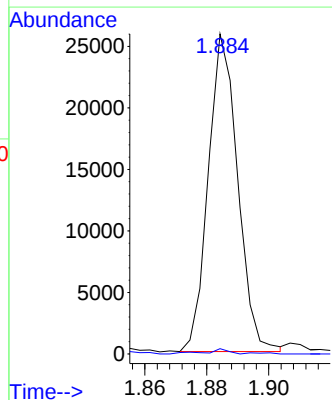
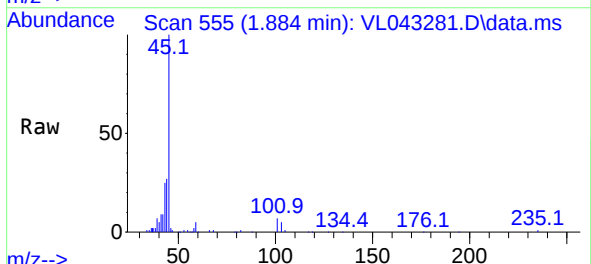
Manual Integrations
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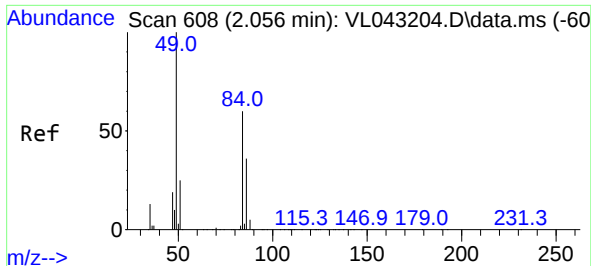
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#19
Isopropyl Alcohol
Concen: 2.025 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

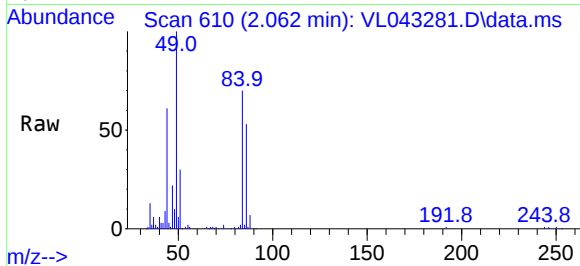
Tgt Ion: 45 Resp: 17025
Ion Ratio Lower Upper
45 100
58 95.1 31.3 46.9#





#20
Methylene Chloride
Concen: 1.013 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

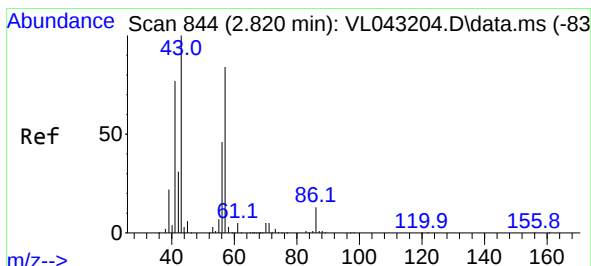
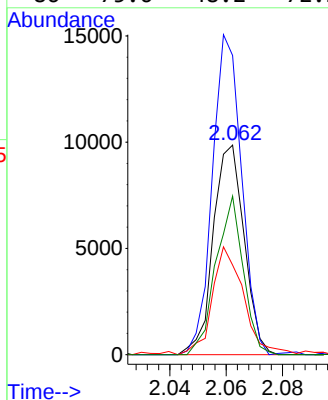
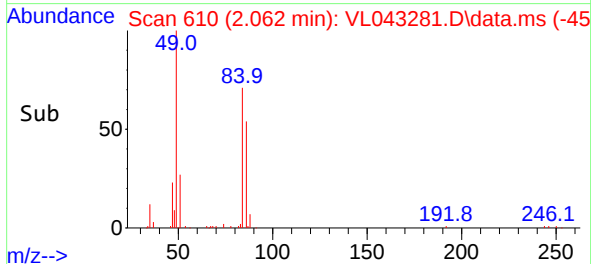
Instrument :
MSVOA_L
ClientSampleId :
IA1



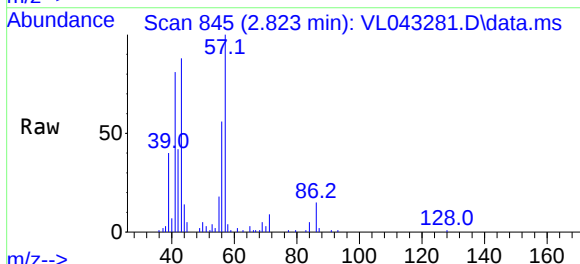
Tgt Ion: 84 Resp: 7531
Ion Ratio Lower Upper
84 100
49 142.7 132.9 199.3
51 42.2 34.8 52.2
86 75.6 48.2 72.2#

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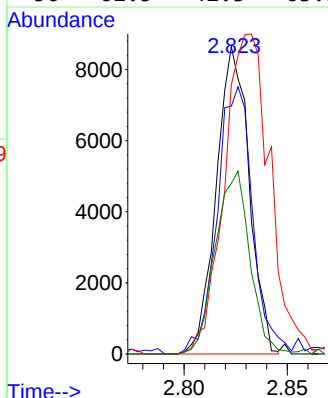
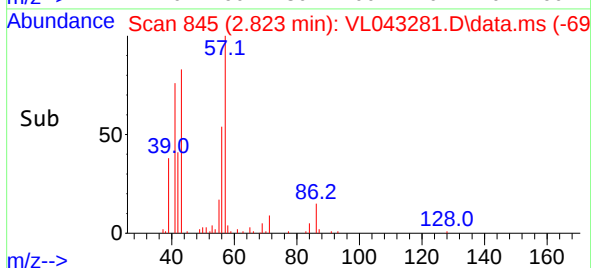
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Supervised By :Mahesh Dadoda 11/25/2025

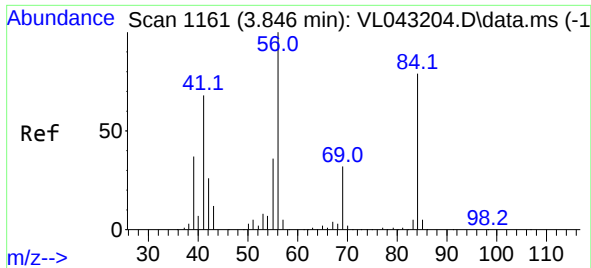


#26
Hexane
Concen: 0.680 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26



Tgt Ion: 57 Resp: 9567
Ion Ratio Lower Upper
57 100
41 97.8 74.6 111.8
43 145.5 179.0 268.4#
56 62.5 42.3 63.5





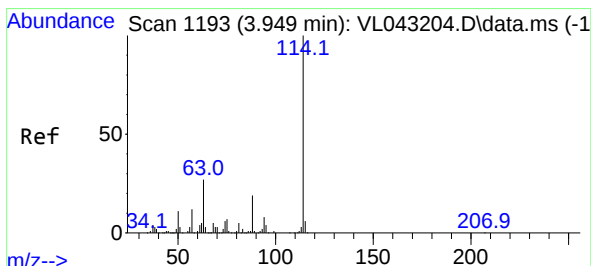
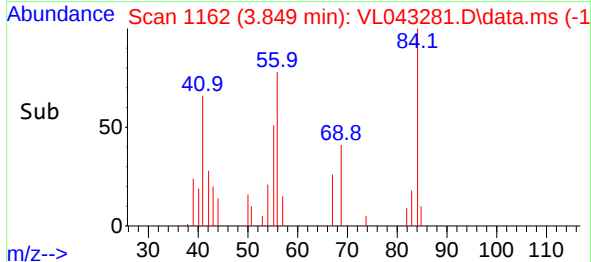
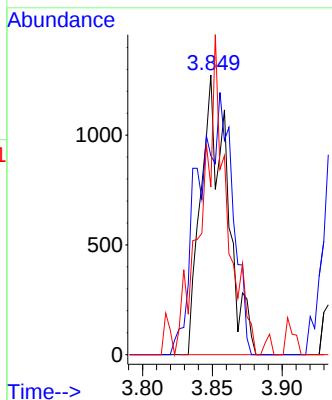
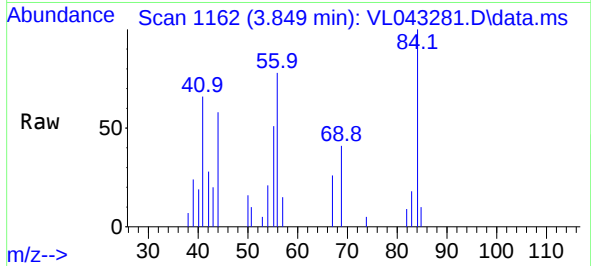
#30
Cyclohexane
Concen: 0.141 ppbv m
RT: 3.849 min Scan# 1161
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 1664
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 0.0 69.0 103.6

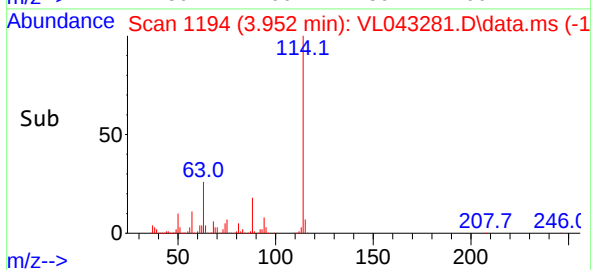
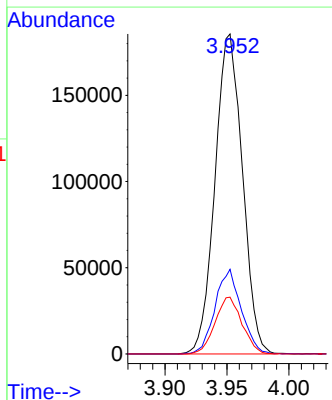
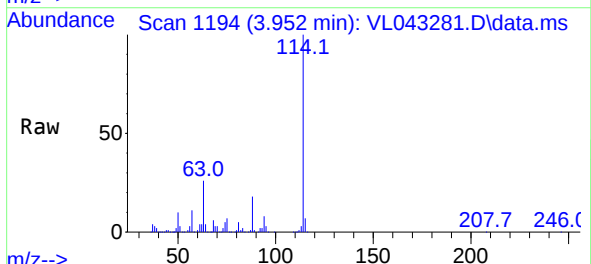
Manual Integrations
APPROVED

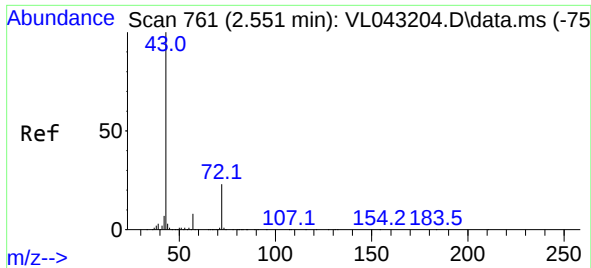
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

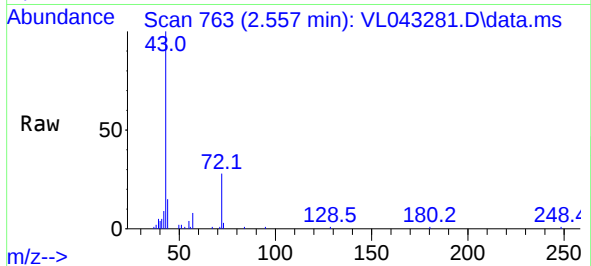
Tgt Ion:114 Resp: 286434
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 17.4 14.9 22.3





#34
2-Butanone
Concen: 0.508 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.007 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

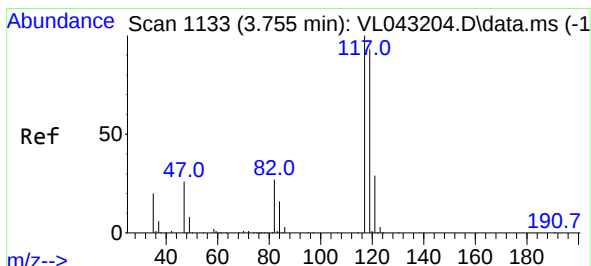
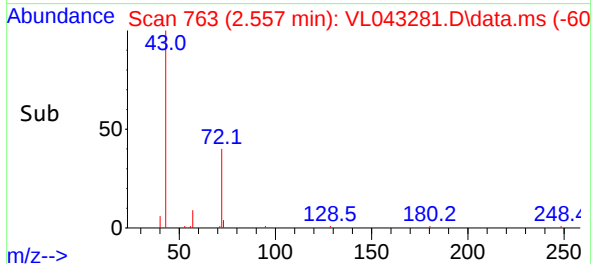
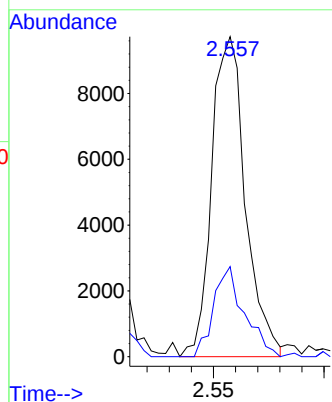
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 10274
Ion Ratio Lower Upper
43 100
72 26.2 18.1 27.1

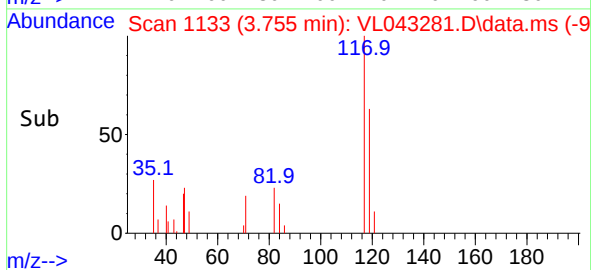
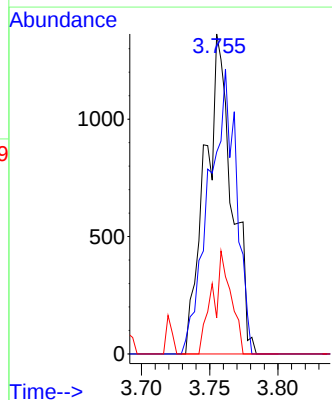
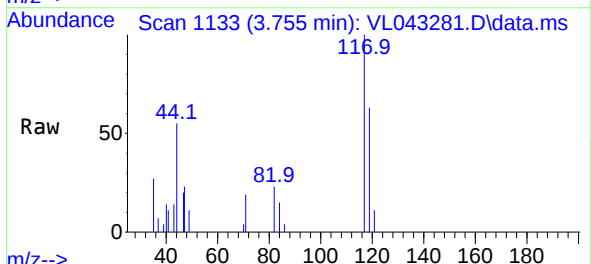
Manual Integrations
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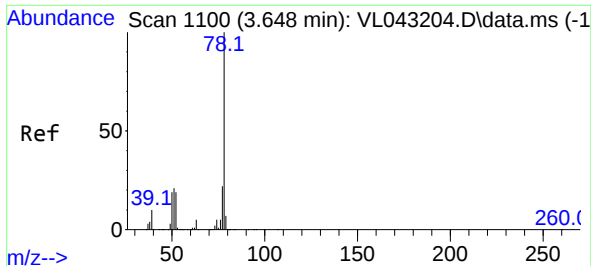
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

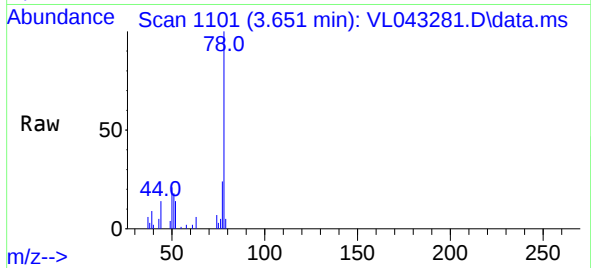
Tgt Ion:117 Resp: 1876
Ion Ratio Lower Upper
117 100
119 63.1 74.6 112.0#
121 11.2 23.2 34.8#





#36
Benzene
Concen: 0.377 ppbv
RT: 3.651 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

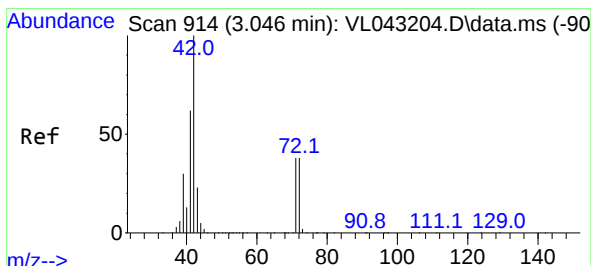
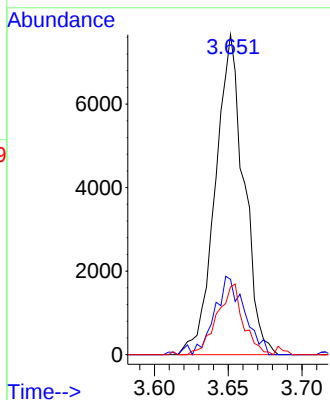
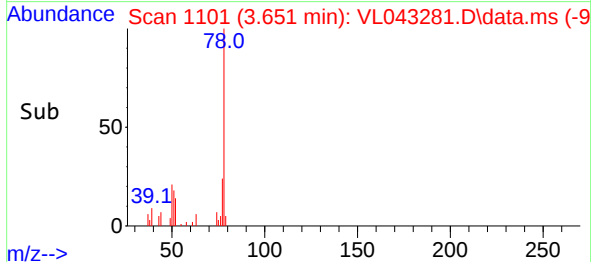
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78 Resp: 10334
Ion Ratio Lower Upper
78 100
77 23.6 17.5 26.3
50 21.2 15.5 23.3

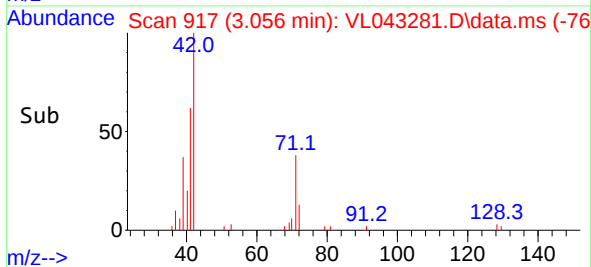
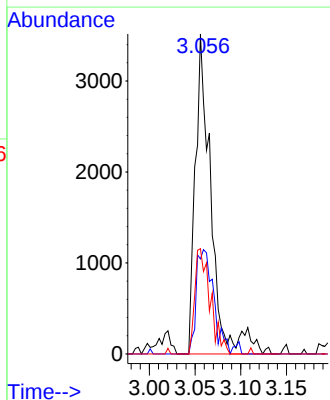
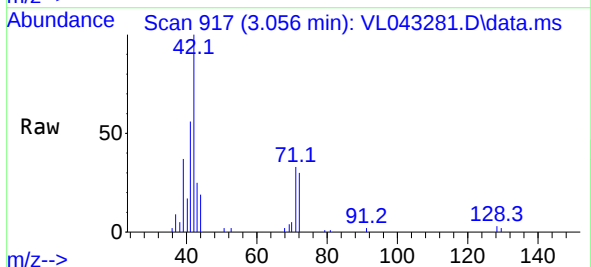
Manual Integrations
APPROVED

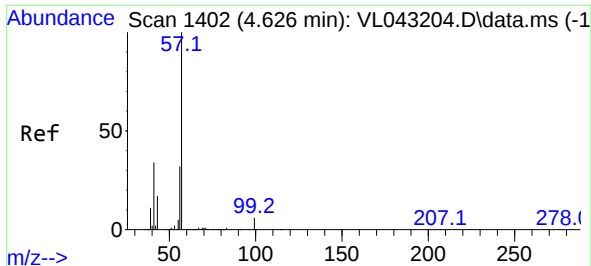
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#41
Tetrahydrofuran
Concen: 0.377 ppbv m
RT: 3.056 min Scan# 917
Delta R.T. 0.010 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Tgt Ion: 42 Resp: 4214
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0#
71 0.0 30.5 45.7#





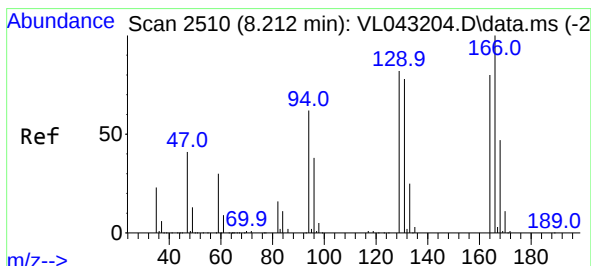
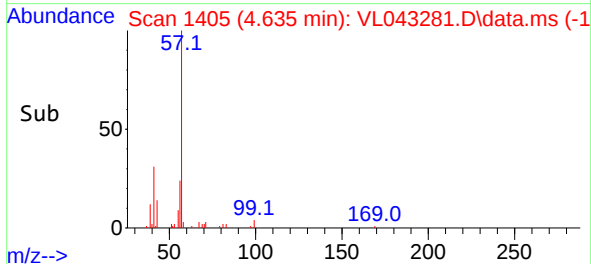
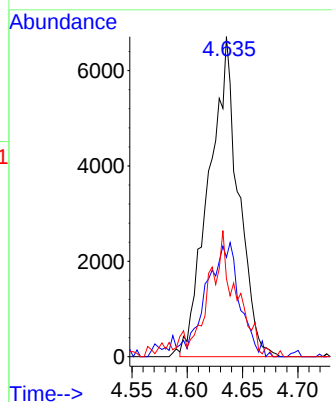
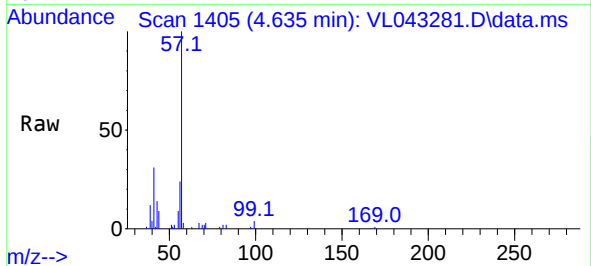
#44
2,2,4-Trimethylpentane
Concen: 0.265 ppbv
RT: 4.635 min Scan# 1402
Delta R.T. 0.010 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 12500
Ion Ratio Lower Upper
57 100
41 43.5 28.0 42.0
56 40.3 25.6 38.4

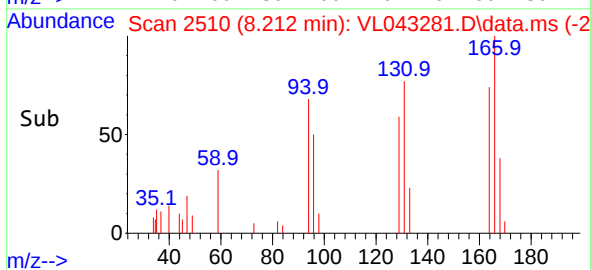
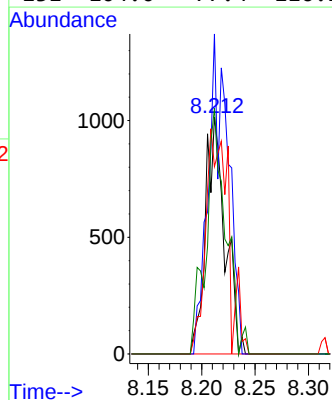
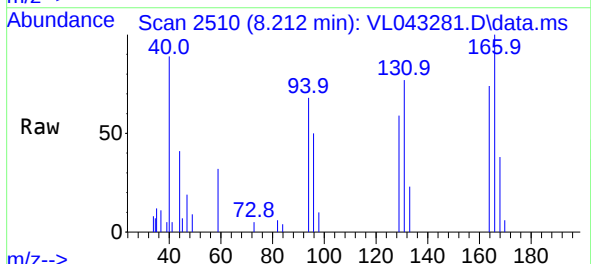
Manual Integrations
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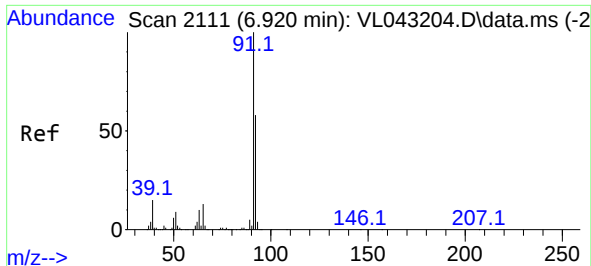
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#52
Tetrachloroethene
Concen: 0.126 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

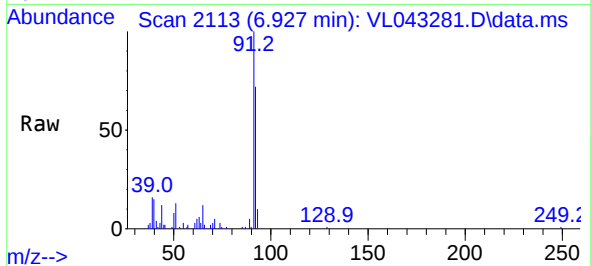
Tgt Ion:164 Resp: 1283
Ion Ratio Lower Upper
164 100
166 135.3 99.4 149.2
129 79.3 81.8 122.8
131 104.0 77.4 116.2





#53
Toluene
Concen: 0.494 ppbv m
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

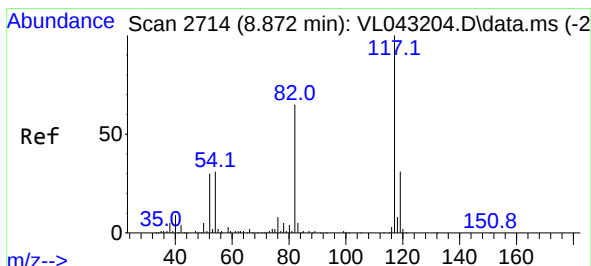
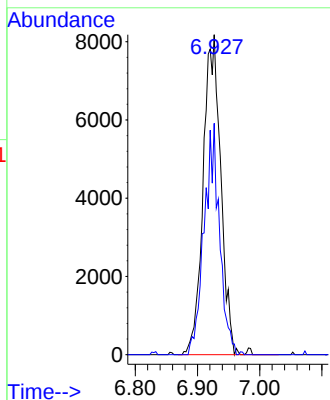
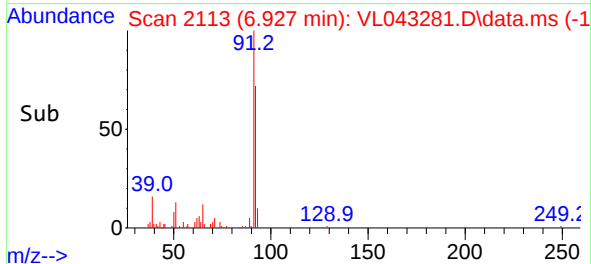
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 16030
Ion Ratio Lower Upper
91 100
92 63.0 47.4 71.0

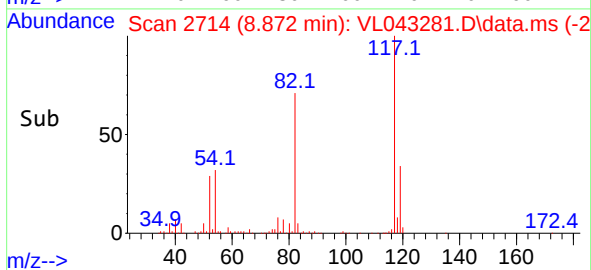
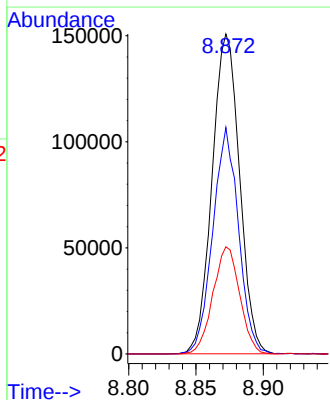
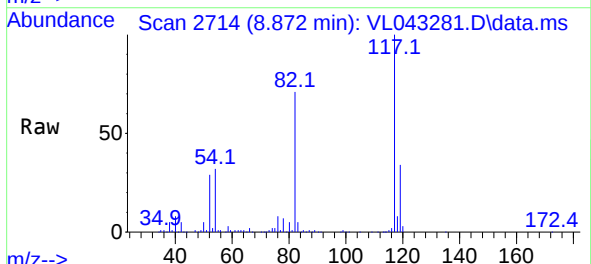
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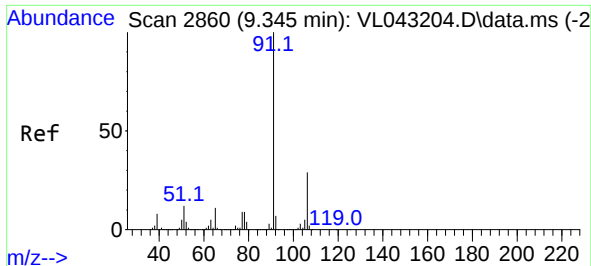
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Tgt Ion:117 Resp: 213639
Ion Ratio Lower Upper
117 100
82 66.4 56.1 84.1
119 32.7 25.0 37.6





#58

Ethyl Benzene

Concen: 0.182 ppbv

RT: 9.348 min Scan# 2860

Delta R.T. 0.003 min

Lab File: VL043281.D

Acq: 24 Nov 2025 14:26

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 7478

Ion Ratio Lower Upper

91 100

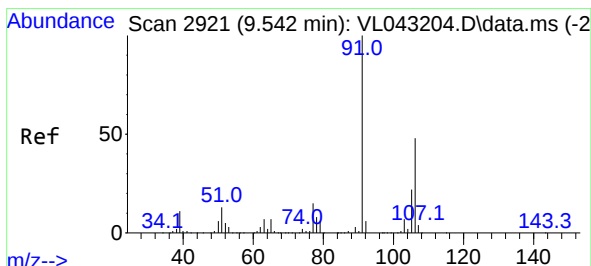
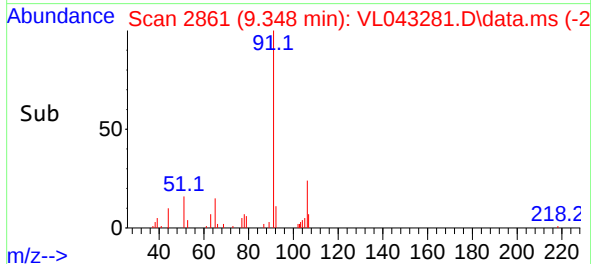
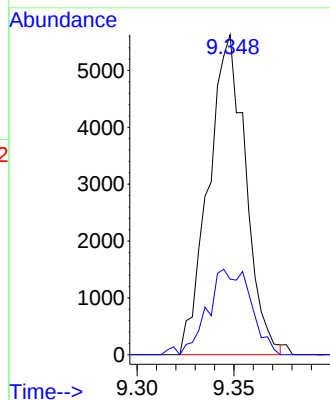
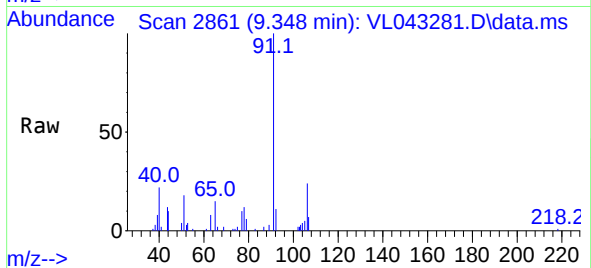
106 30.8 22.8 34.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025

Supervised By :Mahesh Dadoda 11/25/2025



#59

m/p-Xylene

Concen: 0.629 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.016 min

Lab File: VL043281.D

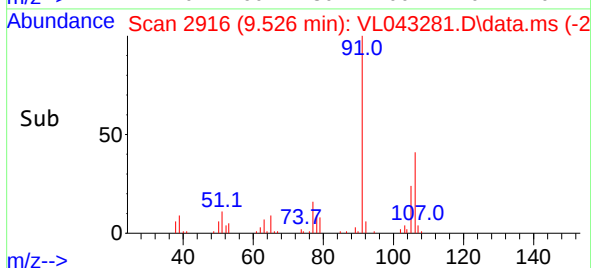
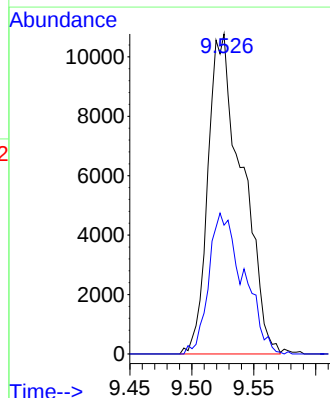
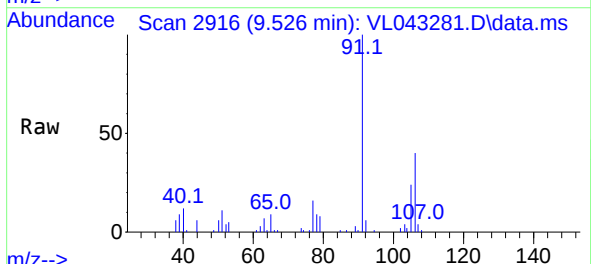
Acq: 24 Nov 2025 14:26

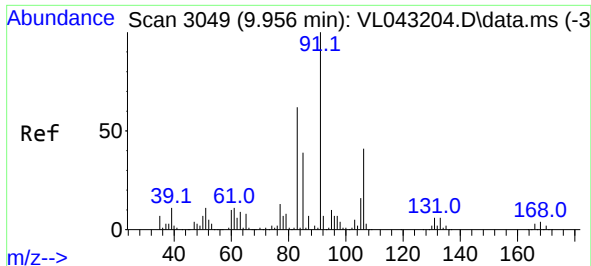
Tgt Ion: 91 Resp: 20727

Ion Ratio Lower Upper

91 100

106 44.8 36.1 54.1





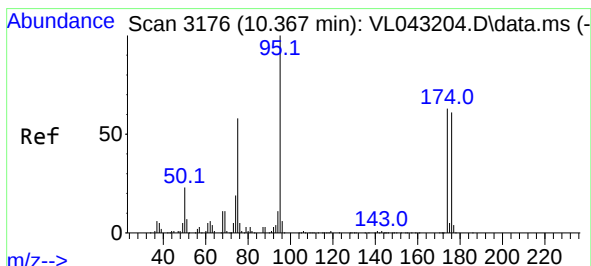
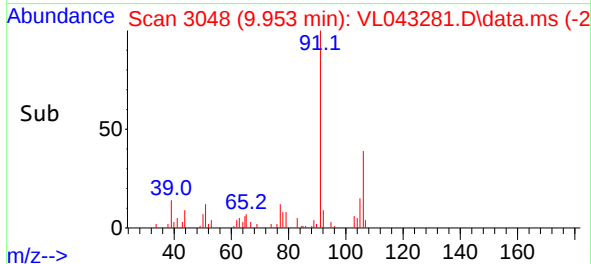
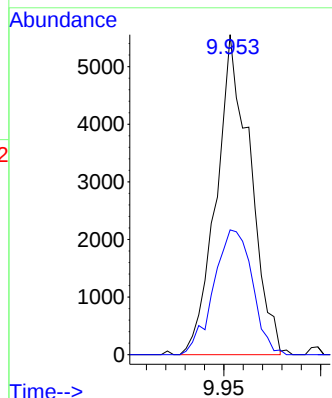
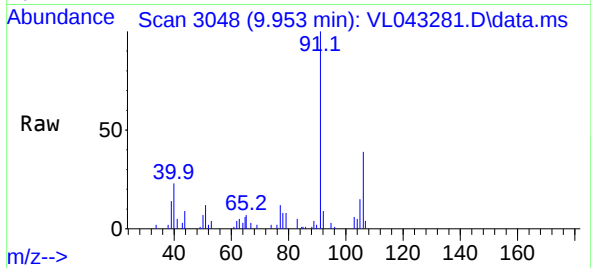
#60
o-Xylene
Concen: 0.205 ppbv
RT: 9.953 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 6764
Ion Ratio Lower Upper
91 100
106 44.3 20.9 62.8

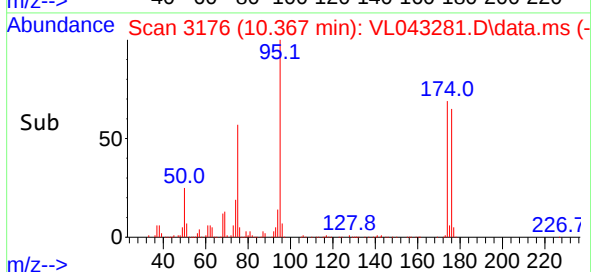
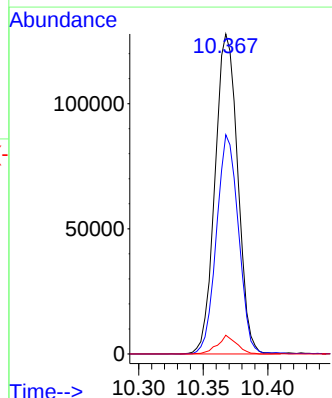
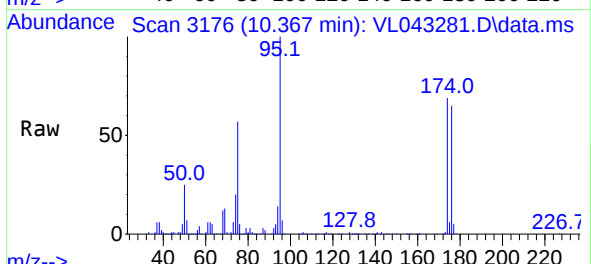
Manual Integrations
APPROVED

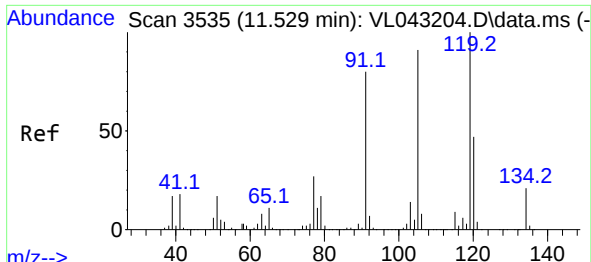
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.989 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043281.D
Acq: 24 Nov 2025 14:26

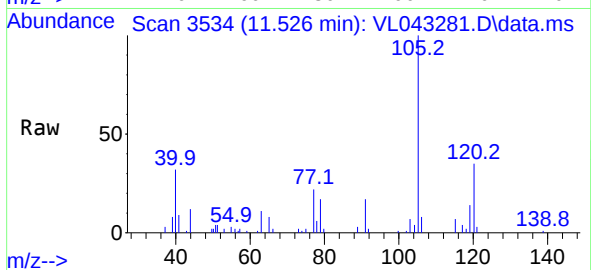
Tgt Ion: 95 Resp: 156431
Ion Ratio Lower Upper
95 100
174 66.8 50.2 75.2
175 4.9 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.139 ppbv
 RT: 11.526 min Scan# 3534
 Delta R.T. -0.003 min
 Lab File: VL043281.D
 Acq: 24 Nov 2025 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	5120
Ion	Ratio	Lower	Upper
105	100		
120	34.8	41.7	62.5
91	18.6	70.0	105.0
77	22.3	23.8	35.8

Manual Integrations
 APPROVED

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

