

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043263.D
 Acq On : 20 Nov 2025 13:58
 Operator : SY/MD
 Sample : Q3655-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Manual Integrations
 APPROVED

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

Quant Time: Nov 21 00:38:44 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	2.787	49	106133	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	277609	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	155552	9.924	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3994	0.267	ppbv	97
3) Chlorodifluoromethane	1.476	51	1654m	0.112	ppbv	
4) Chloromethane	1.535	50	1928	0.344	ppbv	99
9) Propene	1.486	41	1264	0.202	ppbv #	1
11) Trichlorofluoromethane	1.878	101	2061m	0.142	ppbv	
13) Ethanol	1.722	45	3804	1.730	ppbv #	38
15) Acetone	1.839	43	22901m	1.553	ppbv	
19) Isopropyl Alcohol	1.884	45	2937	0.352	ppbv #	1
20) Methylene Chloride	2.062	84	7004	0.898	ppbv	93
26) Hexane	2.829	57	5946	0.426	ppbv #	46
34) 2-Butanone	2.561	43	9638	0.492	ppbv	93
35) Carbon Tetrachloride	3.761	117	856m	0.041	ppbv	
38) Trichloroethene	4.545	130	697m	0.067	ppbv	
52) Tetrachloroethene	8.222	164	422485	42.721	ppbv	98
53) Toluene	6.927	91	8269m	0.263	ppbv	
59) m/p-Xylene	9.523	91	4712m	0.143	ppbv	

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

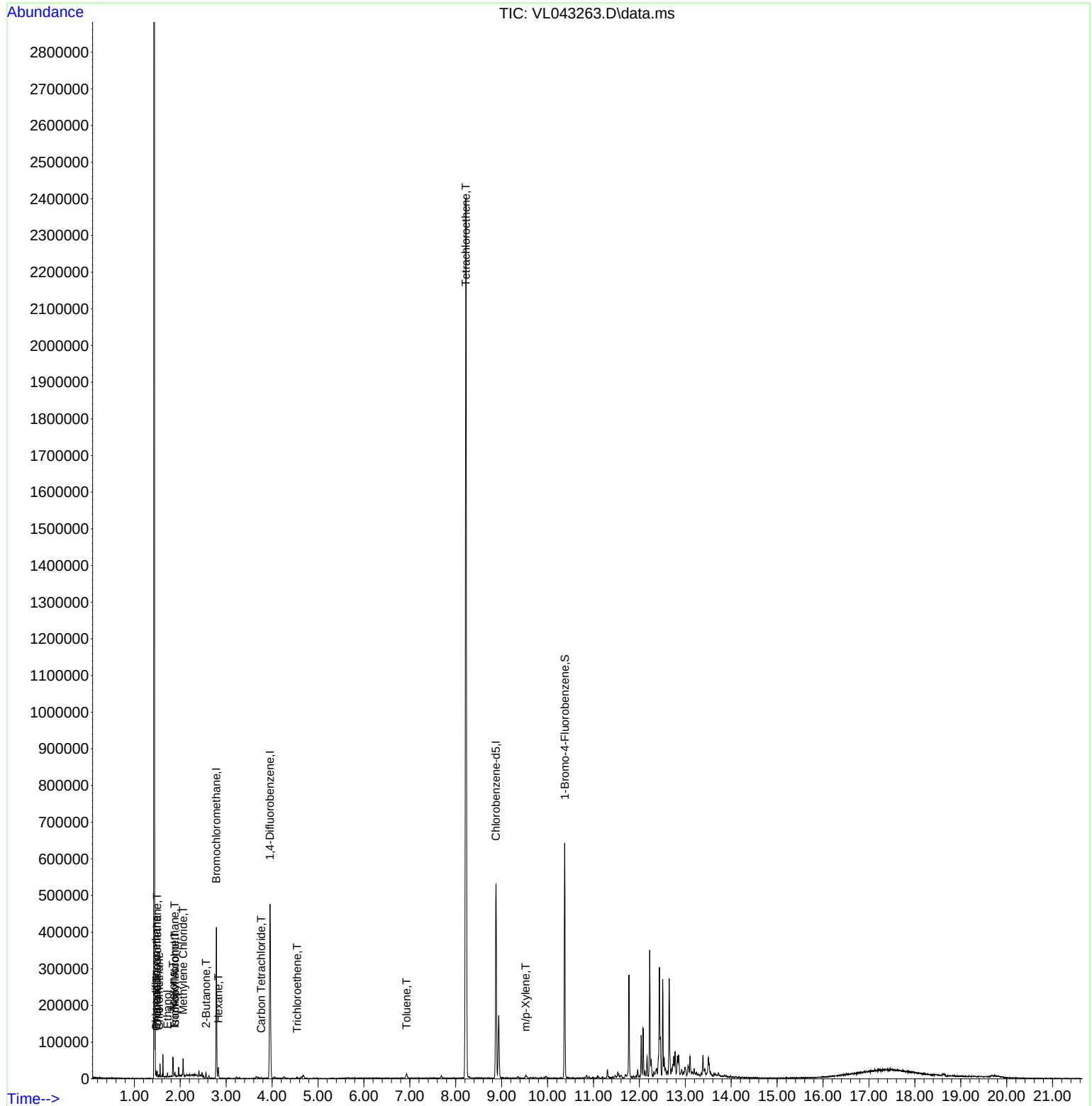
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043263.D
Acq On : 20 Nov 2025 13:58
Operator : SY/MD
Sample : Q3655-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

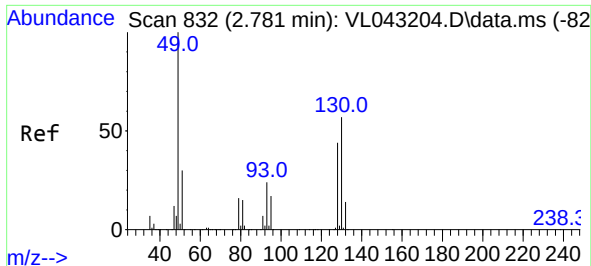
Instrument :
MSVOA_L
ClientSampleId :
SG-3

Quant Time: Nov 21 00:38:44 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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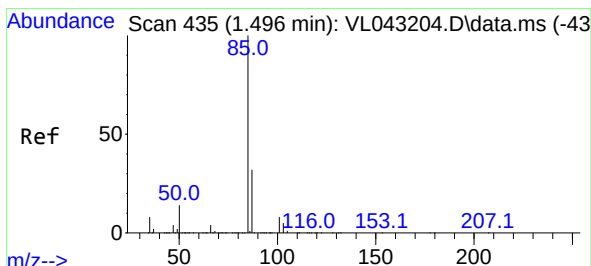
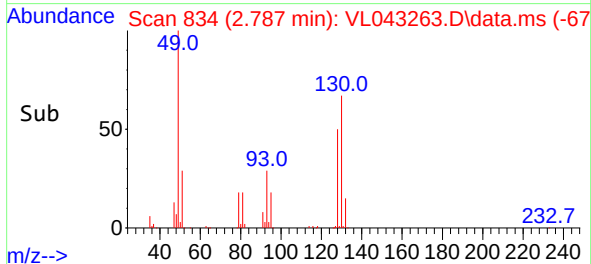
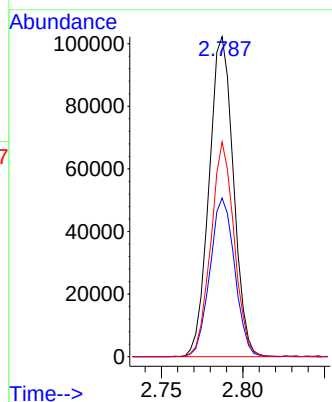
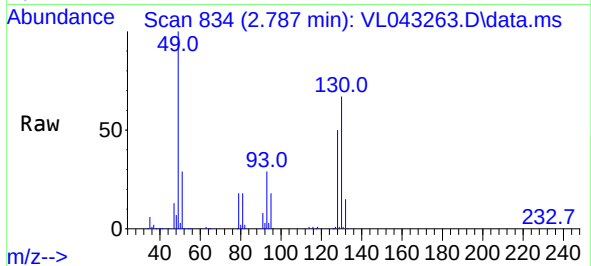
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tgt Ion: 49 Resp: 10613
Ion Ratio Lower Upper
49 100
128 50.3 23.0 69.0
130 64.4 29.9 89.7

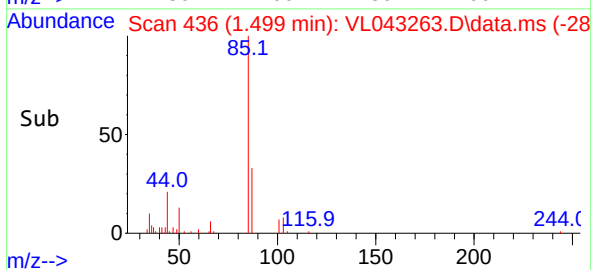
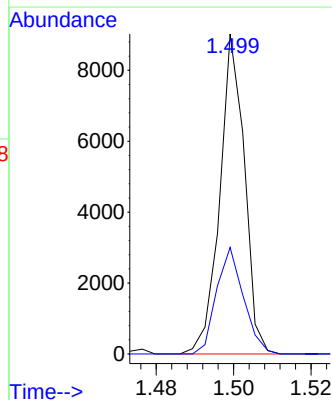
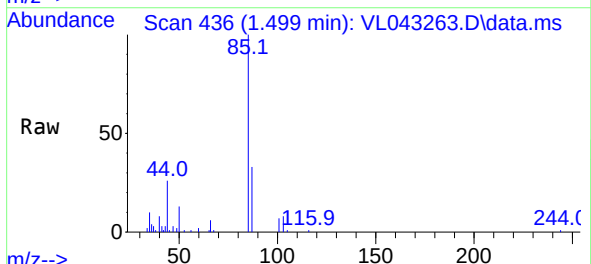
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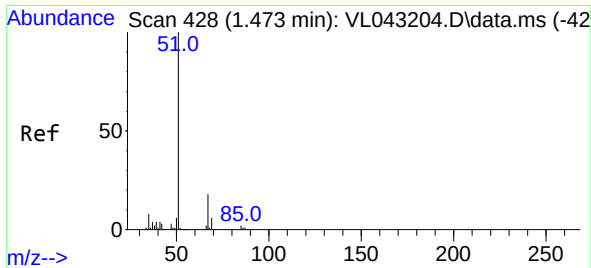
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.267 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

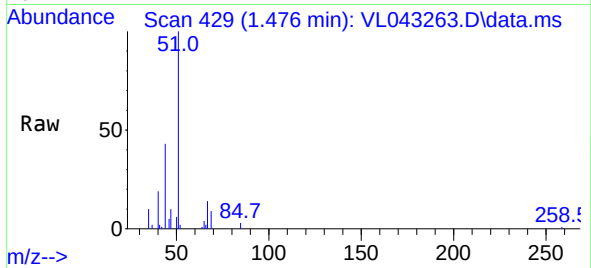
Tgt Ion: 85 Resp: 3994
Ion Ratio Lower Upper
85 100
87 33.3 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.112 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

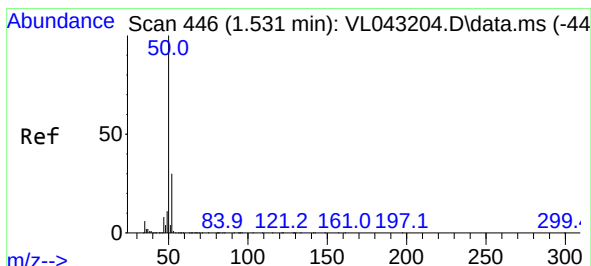
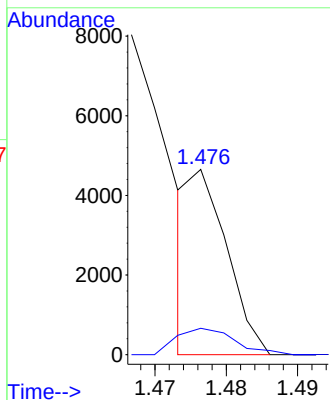
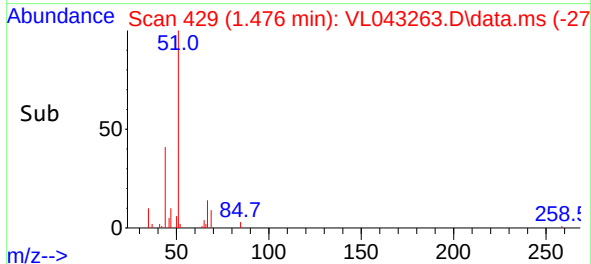
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 51 Resp: 1654
Ion Ratio Lower Upper
51 100
67 25.1 14.9 22.3

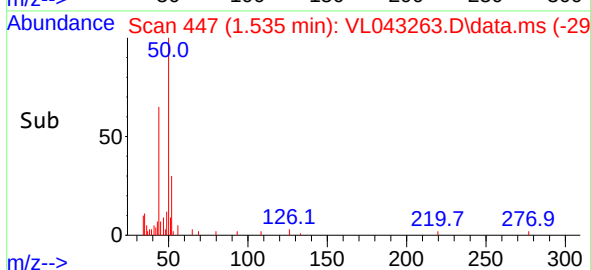
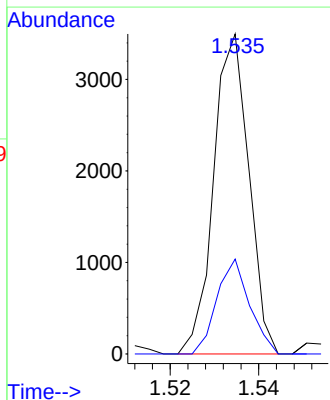
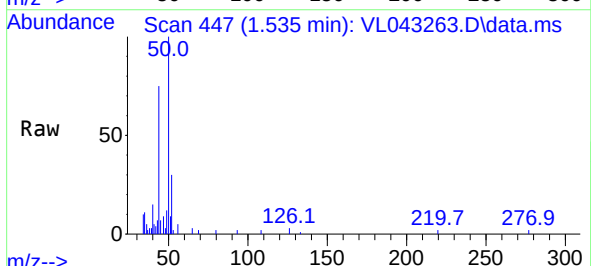
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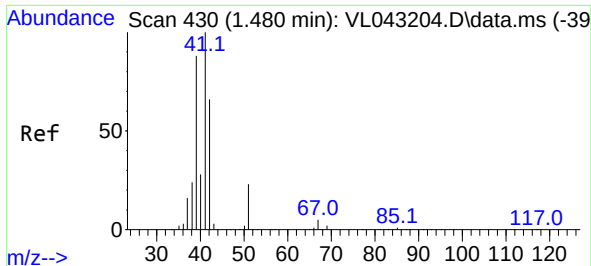
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#4
Chloromethane
Concen: 0.344 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

Tgt Ion: 50 Resp: 1928
Ion Ratio Lower Upper
50 100
52 29.7 24.1 36.1





#9

Propene

Concen: 0.202 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043263.D

Acq: 20 Nov 2025 13:58

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion: 41 Resp: 1264

Ion Ratio Lower Upper

41 100

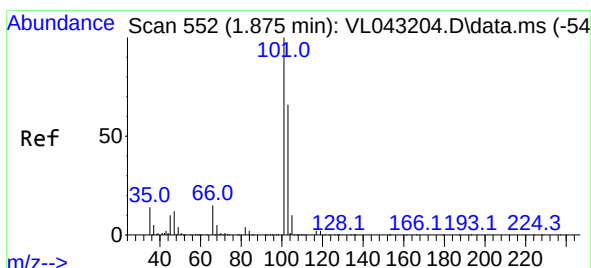
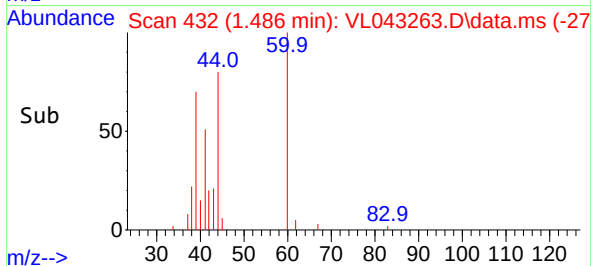
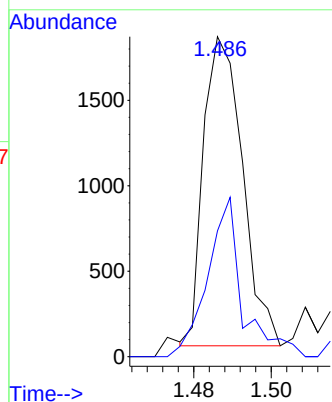
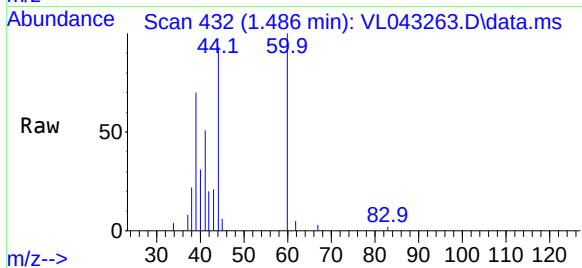
42 50.0 3.7 5.5

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Reviewed By :Semsettin Yesilyurt 11/21/2025

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#11

Trichlorofluoromethane

Concen: 0.142 ppbv m

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL043263.D

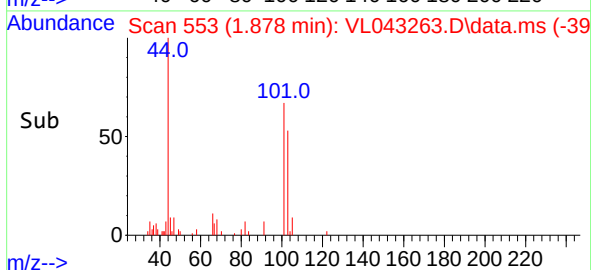
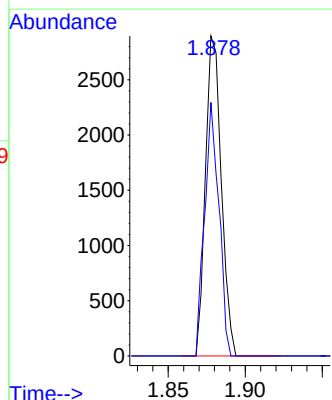
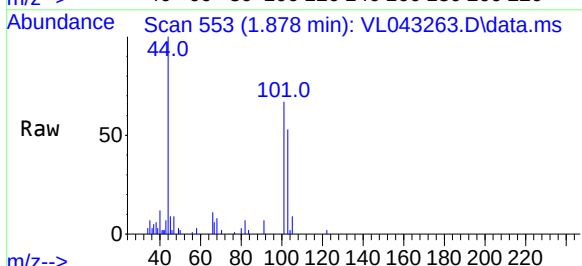
Acq: 20 Nov 2025 13:58

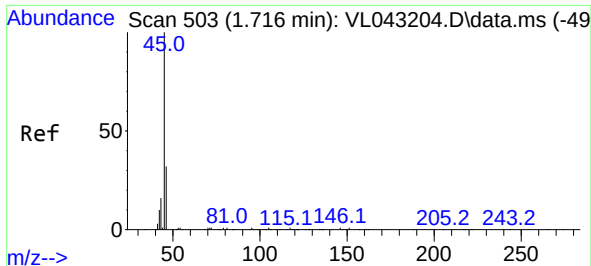
Tgt Ion:101 Resp: 2061

Ion Ratio Lower Upper

101 100

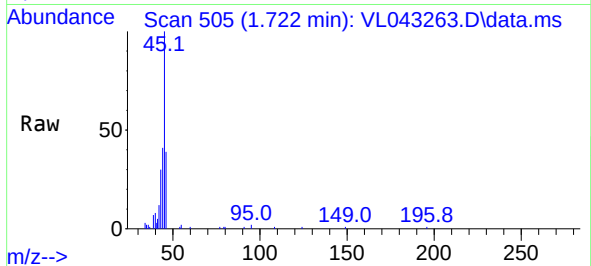
103 79.3 52.6 79.0#





#13
Ethanol
Concen: 1.730 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

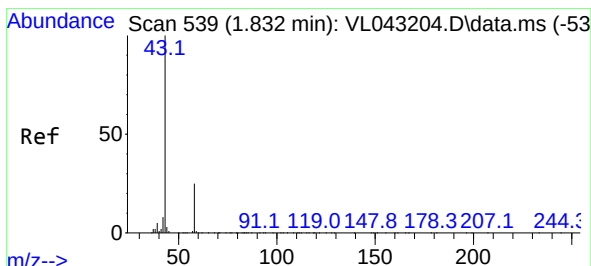
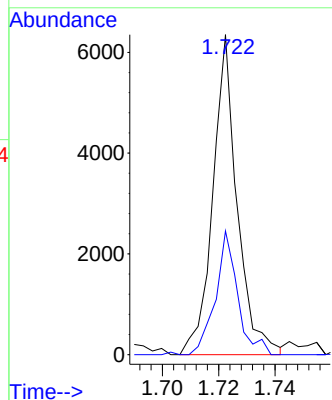
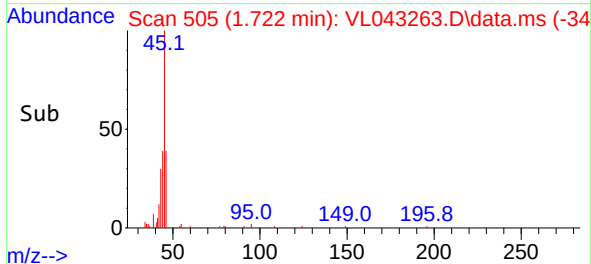
Instrument :
MSVOA_L
ClientSampleId :
SG-3



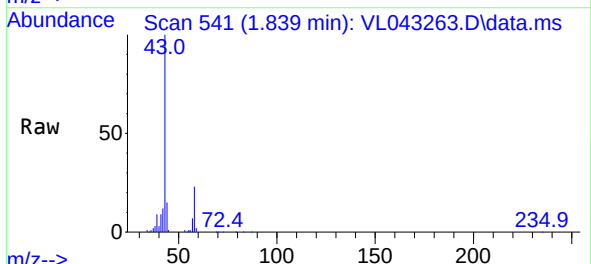
Tgt Ion: 45 Resp: 3804
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

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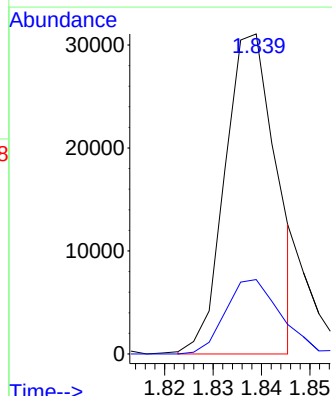
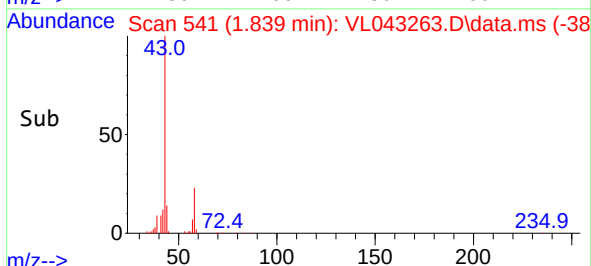
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Supervised By :Mahesh Dadoda 11/21/2025

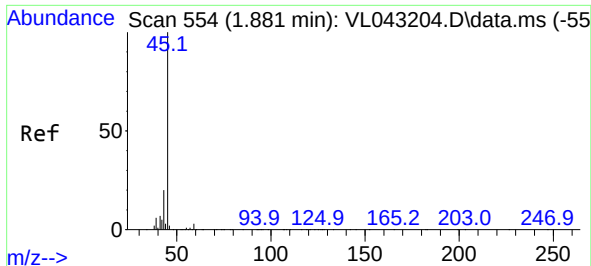


#15
Acetone
Concen: 1.553 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58



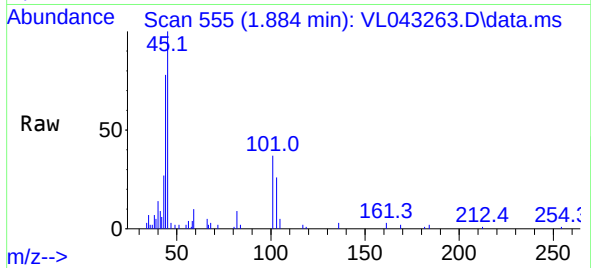
Tgt Ion: 43 Resp: 22901
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1





#19
Isopropyl Alcohol
Concen: 0.352 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

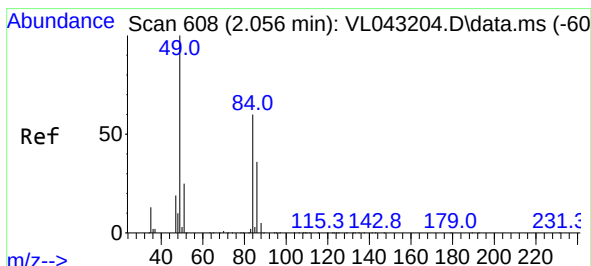
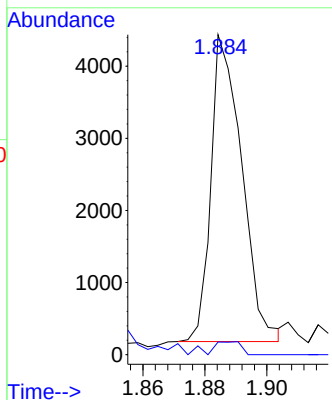
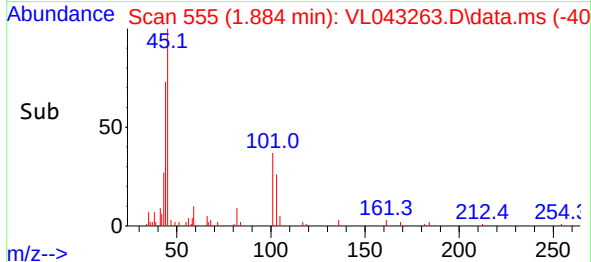
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 45 Resp: 293
Ion Ratio Lower Upper
45 100
58 200.1 31.3 46.9

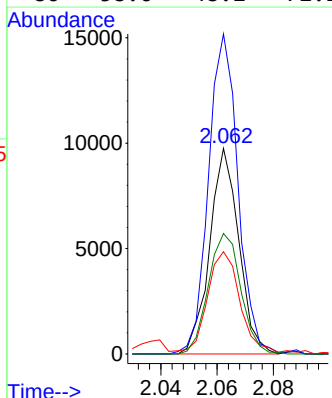
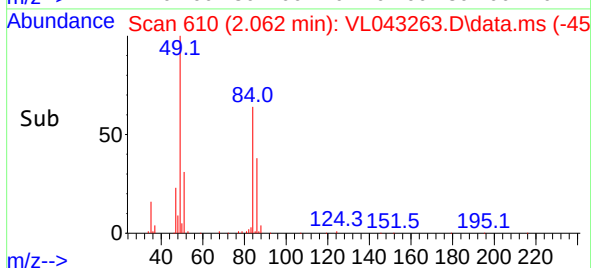
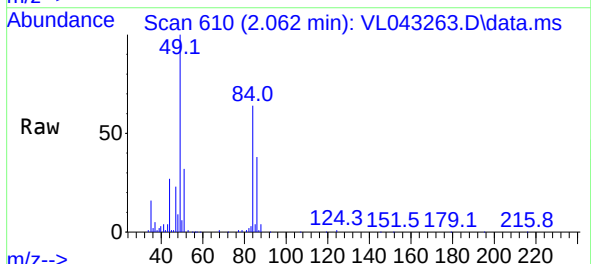
Manual Integrations
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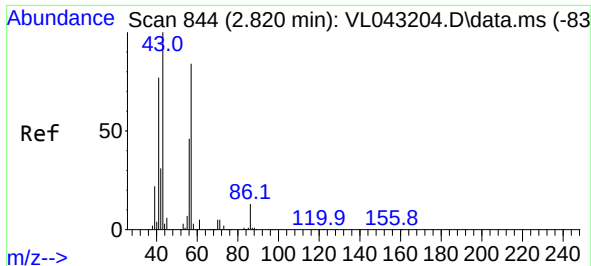
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#20
Methylene Chloride
Concen: 0.898 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

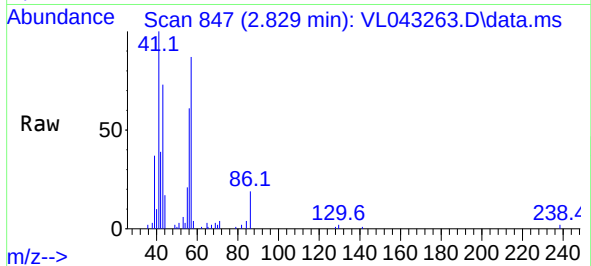
Tgt Ion: 84 Resp: 7004
Ion Ratio Lower Upper
84 100
49 155.1 132.9 199.3
51 48.8 34.8 52.2
86 58.6 48.2 72.2





#26
Hexane
Concen: 0.426 ppbv
RT: 2.829 min Scan# 844
Delta R.T. 0.010 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

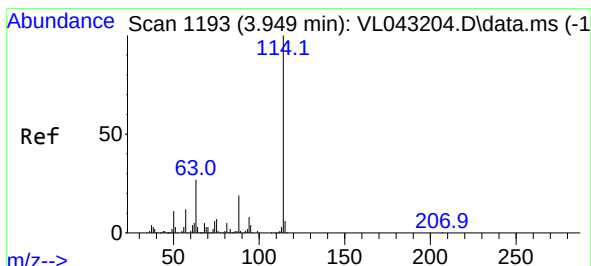
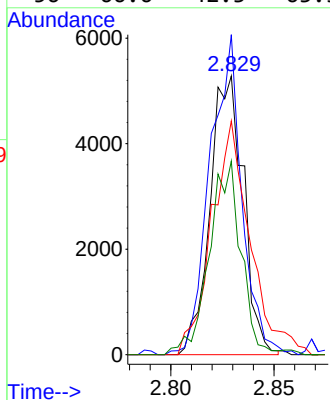
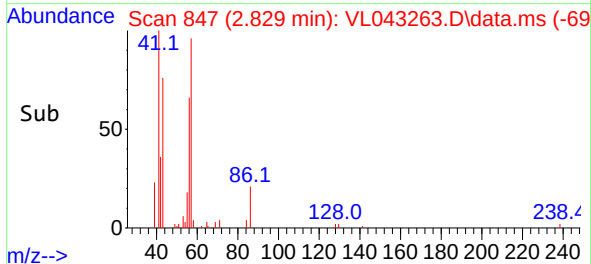
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 57 Resp: 5940
Ion Ratio Lower Upper
57 100
41 110.5 74.6 111.8
43 98.4 179.0 268.4
56 66.6 42.3 63.5

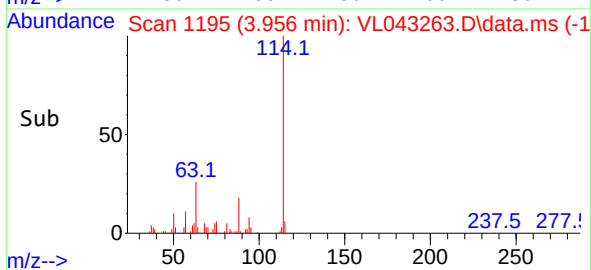
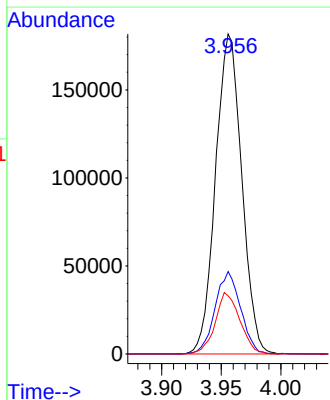
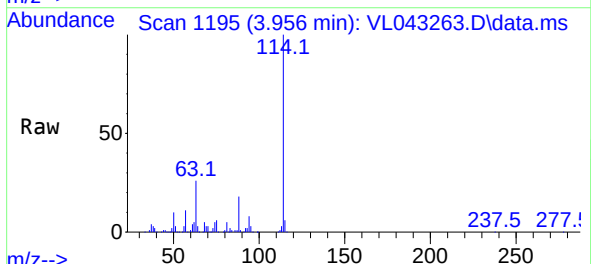
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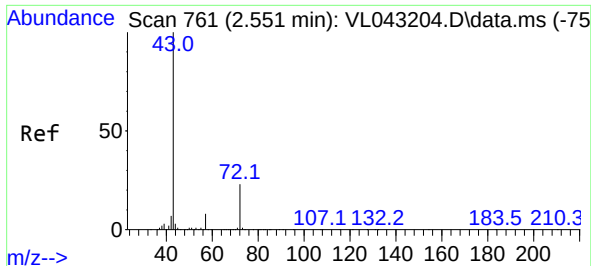
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

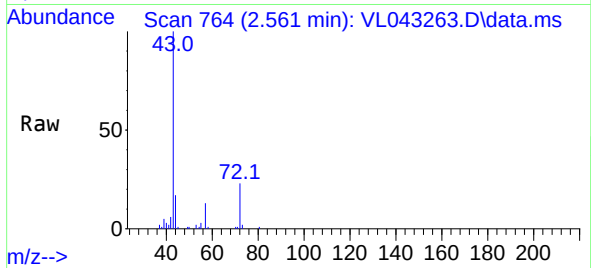
Tgt Ion:114 Resp: 277609
Ion Ratio Lower Upper
114 100
63 25.1 21.0 31.6
88 18.1 14.9 22.3





#34
2-Butanone
Concen: 0.492 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

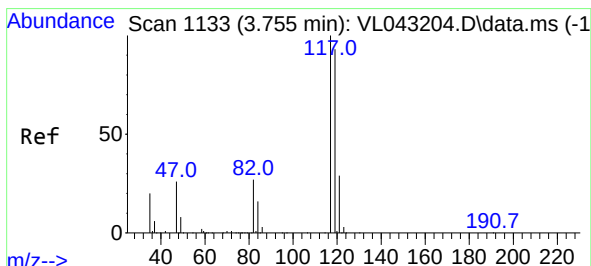
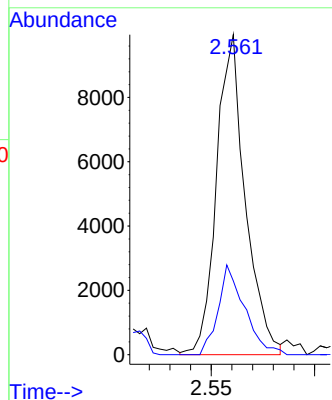
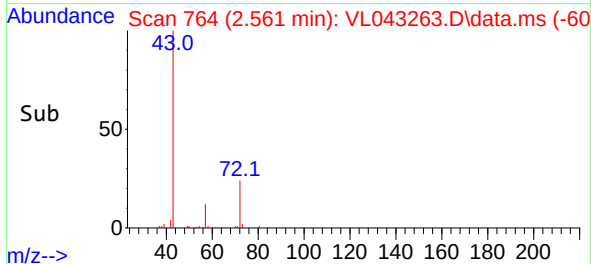
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 43 Resp: 9638
Ion Ratio Lower Upper
43 100
72 25.8 18.1 27.1

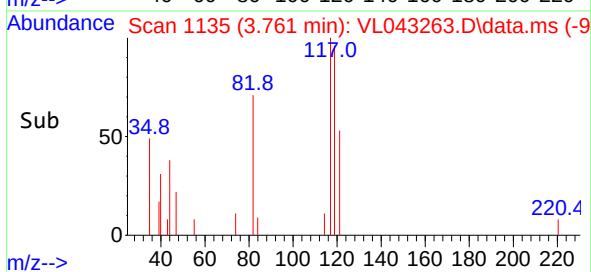
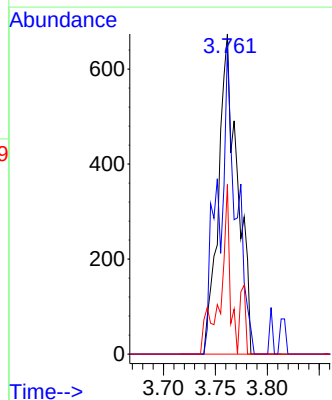
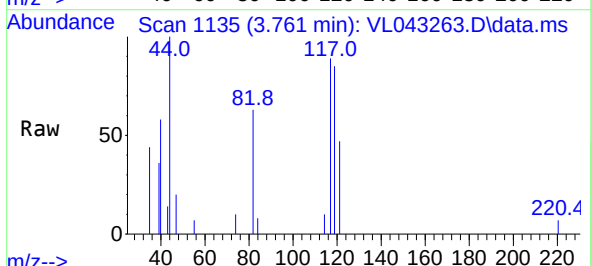
Manual Integrations
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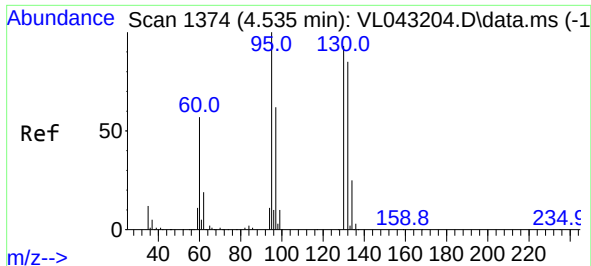
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.041 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

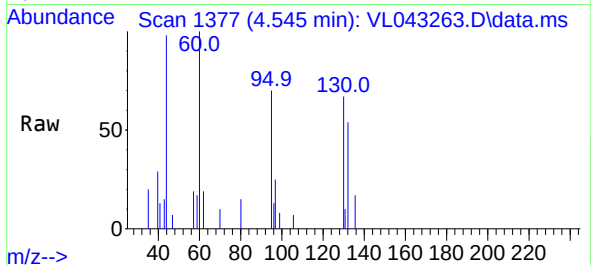
Tgt Ion:117 Resp: 856
Ion Ratio Lower Upper
117 100
119 95.5 74.6 112.0
121 53.0 23.2 34.8#





#38
 Trichloroethene
 Concen: 0.067 ppbv m
 RT: 4.545 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL043263.D
 Acq: 20 Nov 2025 13:58

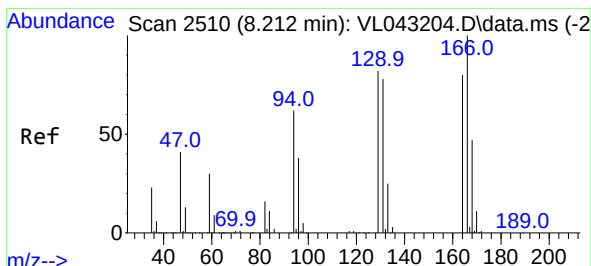
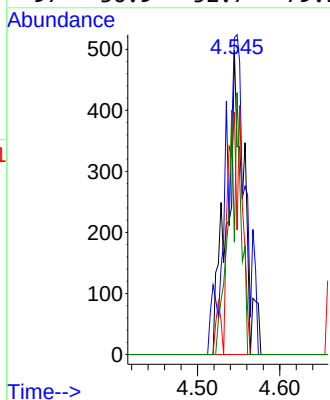
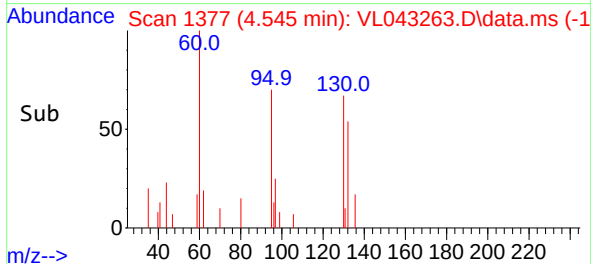
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3



Tgt Ion:130 Resp: 69
 Ion Ratio Lower Upper
 130 100
 95 104.0 85.7 128.5
 132 79.6 73.4 110.0
 97 36.9 52.7 79.1#

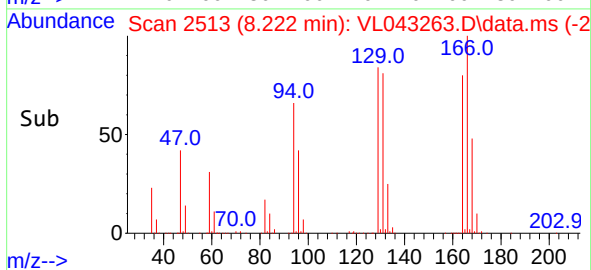
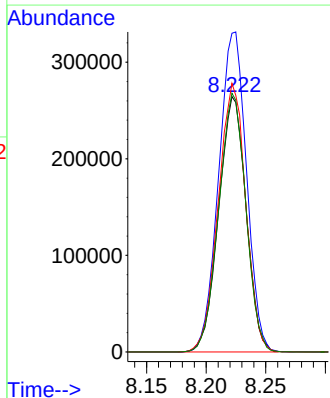
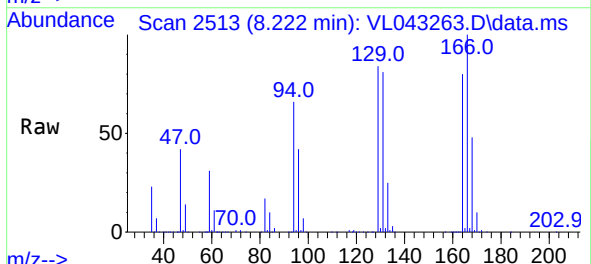
Manual Integrations
 APPROVED

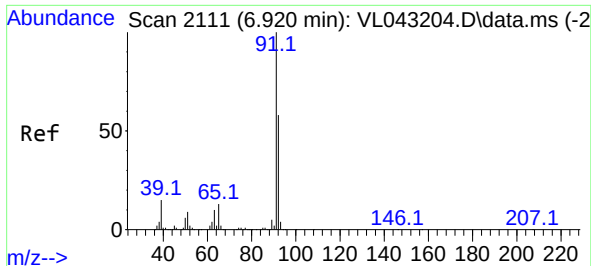
Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025



#52
 Tetrachloroethene
 Concen: 42.721 ppbv
 RT: 8.222 min Scan# 2513
 Delta R.T. 0.010 min
 Lab File: VL043263.D
 Acq: 20 Nov 2025 13:58

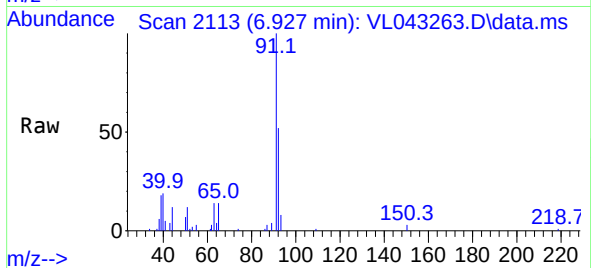
Tgt Ion:164 Resp: 422485
 Ion Ratio Lower Upper
 164 100
 166 124.8 99.4 149.2
 129 105.2 81.8 122.8
 131 101.3 77.4 116.2





#53
Toluene
Concen: 0.263 ppbv m
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58

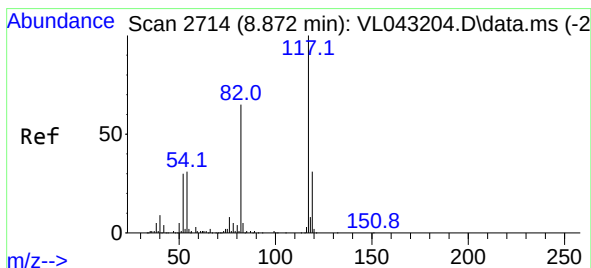
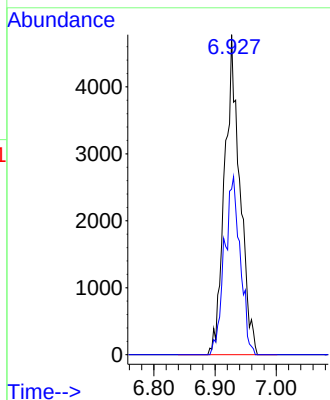
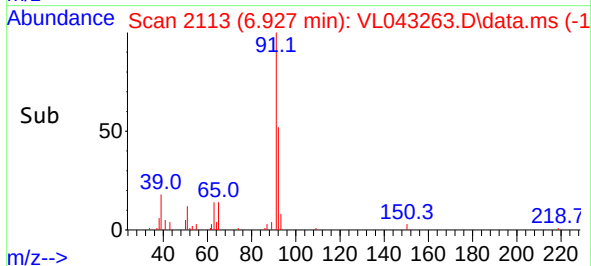
Instrument :
MSVOA_L
ClientSampleId :
SG-3



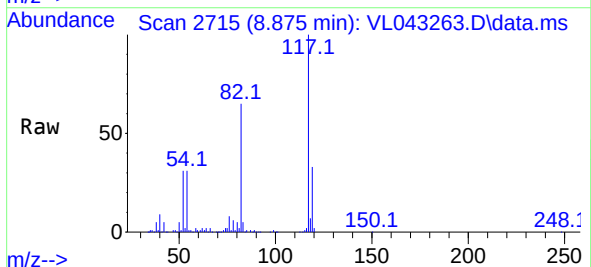
Tgt Ion: 91 Resp: 8269
Ion Ratio Lower Upper
91 100
92 57.2 47.4 71.0

Manual Integrations
APPROVED

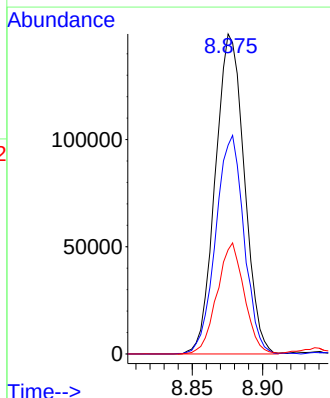
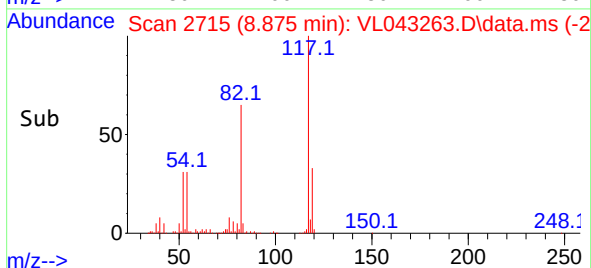
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

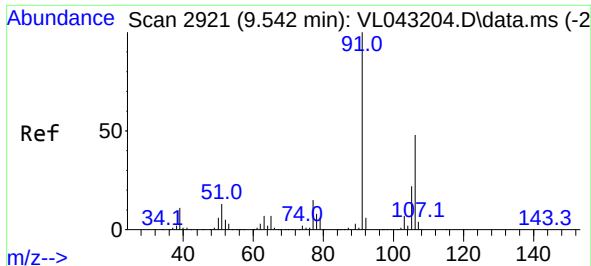


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043263.D
Acq: 20 Nov 2025 13:58



Tgt Ion:117 Resp: 213831
Ion Ratio Lower Upper
117 100
82 66.9 56.1 84.1
119 32.7 25.0 37.6





#59

m/p-Xylene

Concen: 0.143 ppbv m

RT: 9.523 min Scan# 2915

Delta R.T. -0.019 min

Lab File: VL043263.D

Acq: 20 Nov 2025 13:58

Instrument :

MSVOA_L

ClientSampleId :

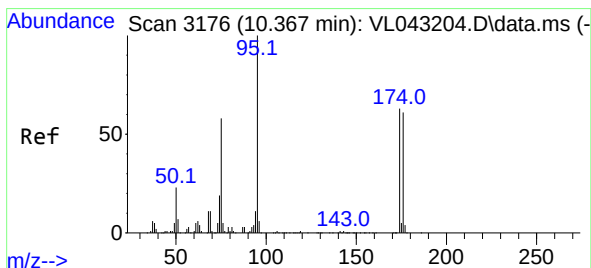
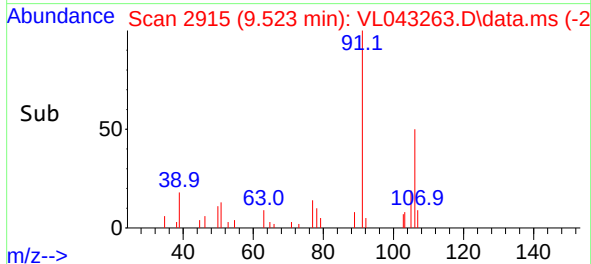
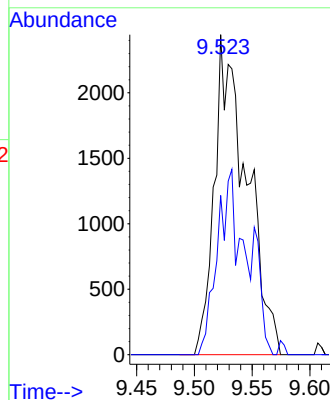
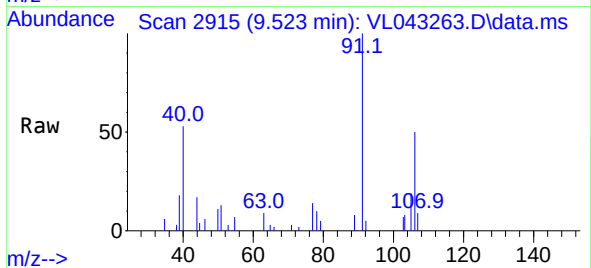
SG-3

Tgt Ion: 91 Resp: 4712
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1

Manual Integrations

APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.924 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.006 min

Lab File: VL043263.D

Acq: 20 Nov 2025 13:58

Tgt Ion: 95 Resp: 155552
 Ion Ratio Lower Upper
 95 100
 174 65.7 50.2 75.2
 175 5.0 4.1 6.1

