

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043249.D
 Acq On : 19 Nov 2025 21:01
 Operator : SY/MD
 Sample : Q3626-02DUP 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9A-SG-2DUP

Manual Integrations
 APPROVED

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

Quant Time: Nov 20 00:10:42 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	99705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	276826	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	209824	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	154207	10.026	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4070	0.289	ppbv	91
3) Chlorodifluoromethane	1.476	51	1488m	0.108	ppbv	
9) Propene	1.486	41	4782	0.814	ppbv #	1
10) Heptane	4.956	43	1991m	0.114	ppbv	
11) Trichlorofluoromethane	1.878	101	4186	0.307	ppbv	97
13) Ethanol	1.719	45	13138	6.362	ppbv	99
15) Acetone	1.832	43	110125	7.950	ppbv	98
17) tert-Butyl alcohol	2.040	59	8475	0.466	ppbv	97
19) Isopropyl Alcohol	1.884	45	45218	5.777	ppbv #	66
20) Methylene Chloride	2.059	84	18957	4.188	ppbv	91
26) Hexane	2.823	57	29288	2.236	ppbv #	42
27) Carbon Disulfide	2.146	76	4694	0.351	ppbv #	1
29) Chloroform	2.845	83	34264	1.840	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	805m	0.041	ppbv	
34) 2-Butanone	2.557	43	4730	0.242	ppbv	99
35) Carbon Tetrachloride	3.752	117	688m	0.033	ppbv	
36) Benzene	3.645	78	3642	0.137	ppbv	95
38) Trichloroethene	4.538	130	1132m	0.109	ppbv	
52) Tetrachloroethene	8.222	164	6604m	0.670	ppbv	
53) Toluene	6.917	91	5159m	0.164	ppbv	

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

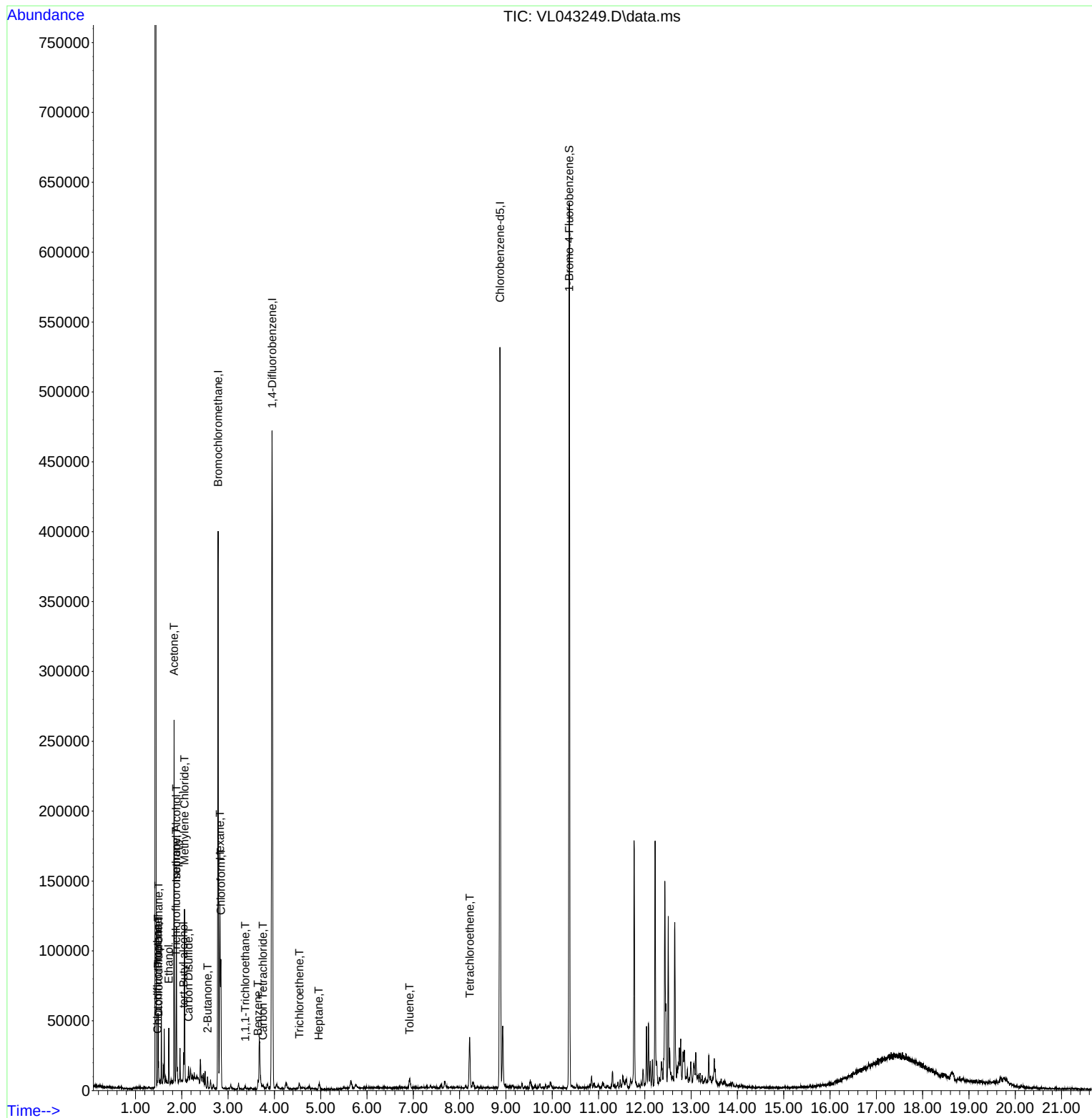
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043249.D
Acq On : 19 Nov 2025 21:01
Operator : SY/MD
Sample : Q3626-02DUP 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

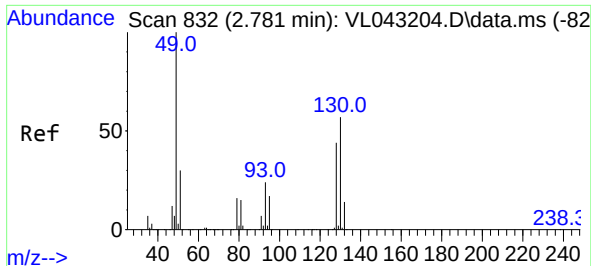
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Quant Time: Nov 20 00:10:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
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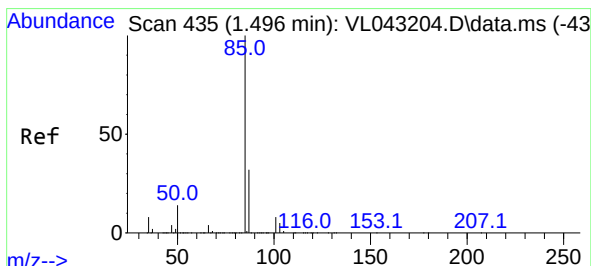
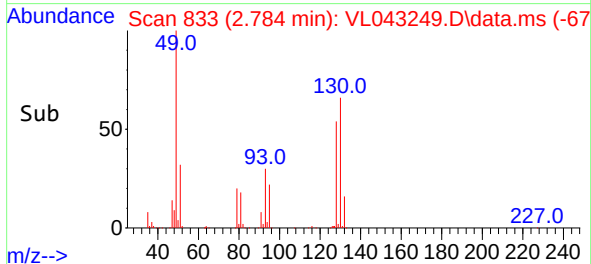
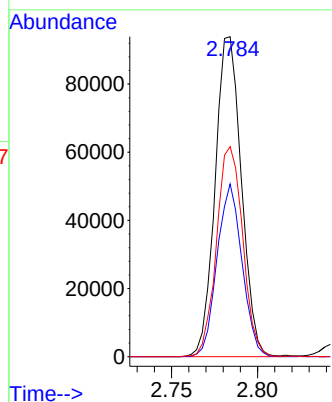
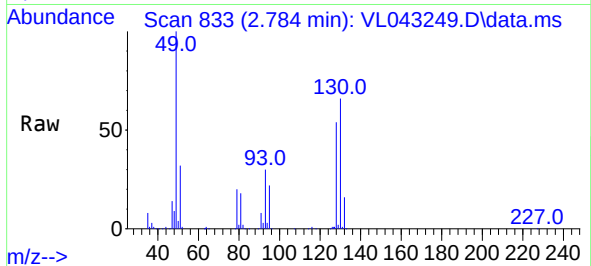
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 49 Resp: 9970
Ion Ratio Lower Upper
49 100
128 51.2 23.0 69.0
130 65.5 29.9 89.7

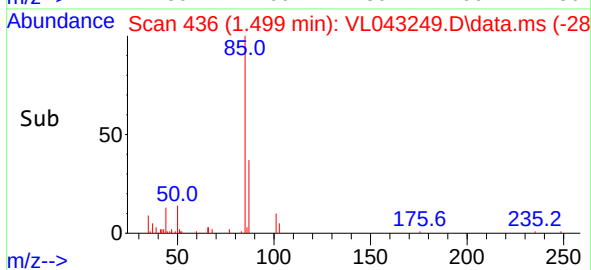
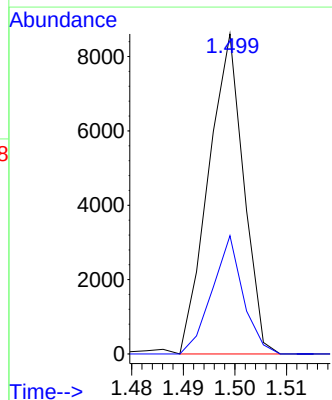
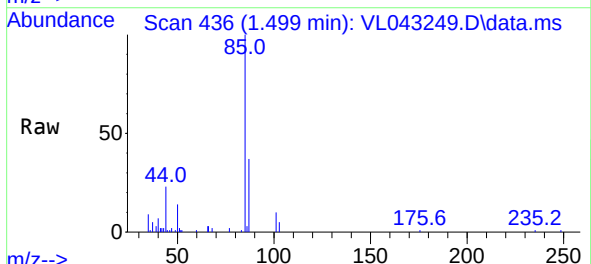
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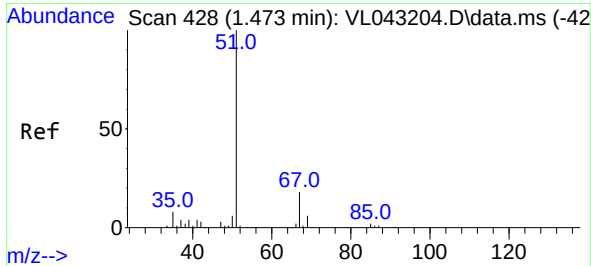
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.289 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 85 Resp: 4070
Ion Ratio Lower Upper
85 100
87 37.0 25.4 38.2





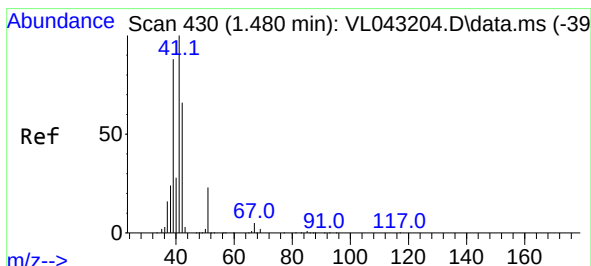
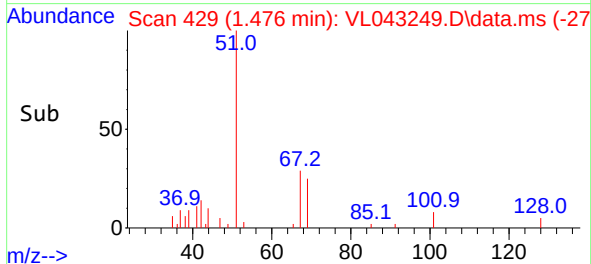
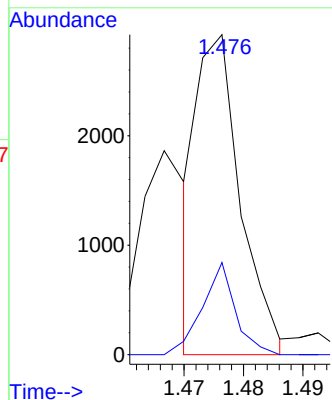
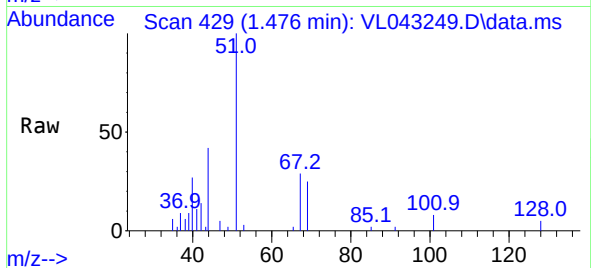
#3
Chlorodifluoromethane
Concen: 0.108 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 51 Resp: 1488
Ion Ratio Lower Upper
51 100
67 21.9 14.9 22.3

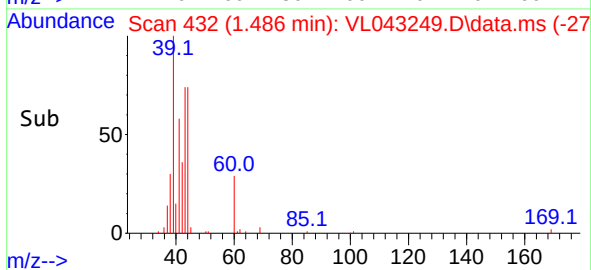
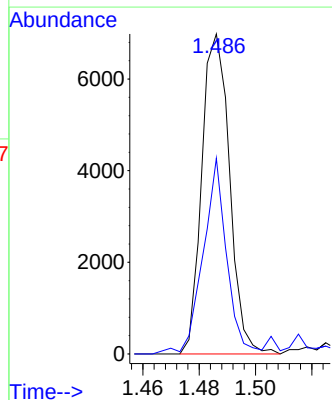
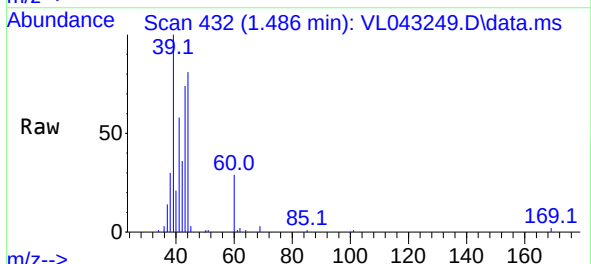
Manual Integrations
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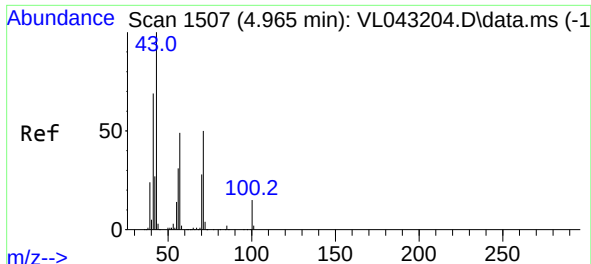
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#9
Propene
Concen: 0.814 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Tgt Ion: 41 Resp: 4782
Ion Ratio Lower Upper
41 100
42 53.5 3.7 5.5#





#10

Heptane

Concen: 0.114 ppbv m

RT: 4.956 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL043249.D

Acq: 19 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

9A-SG-2DUP

Tgt Ion: 43 Resp: 199

Ion Ratio Lower Upper

43 100

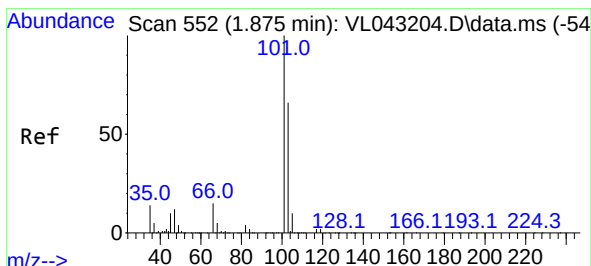
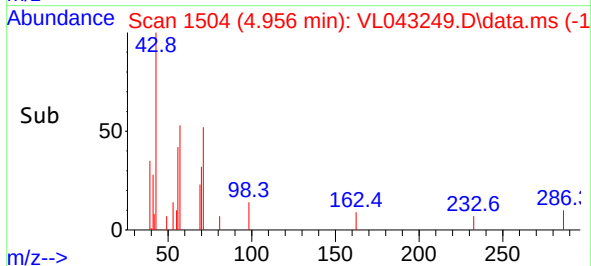
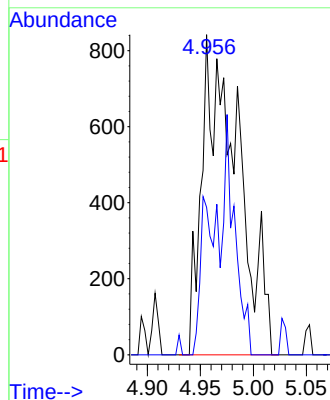
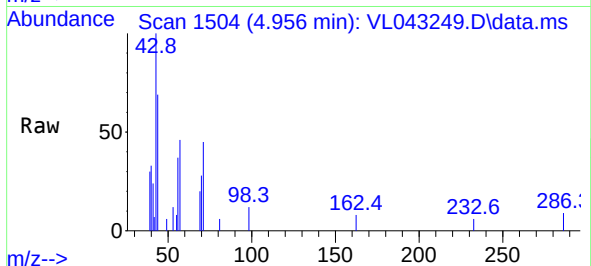
57 45.5 39.7 59.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2025

Supervised By :Mahesh Dadoda 11/21/2025



#11

Trichlorofluoromethane

Concen: 0.307 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL043249.D

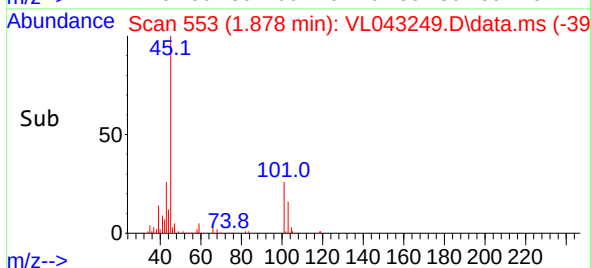
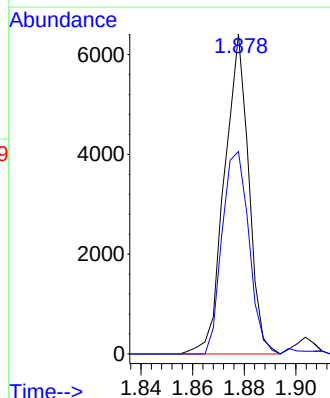
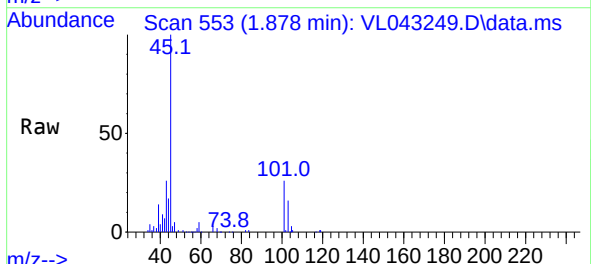
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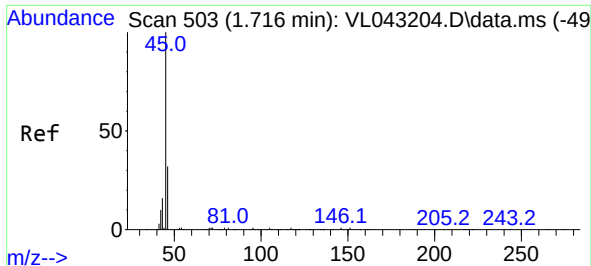
Tgt Ion:101 Resp: 4186

Ion Ratio Lower Upper

101 100

103 63.3 52.6 79.0





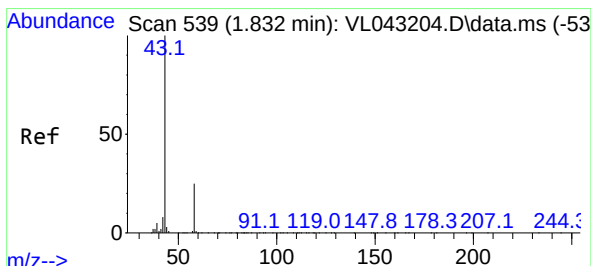
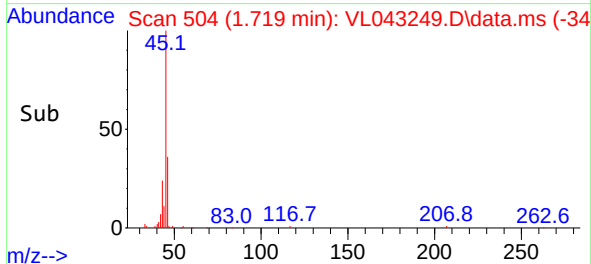
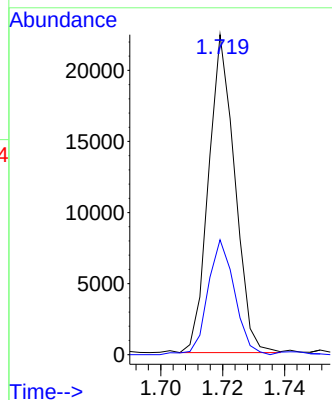
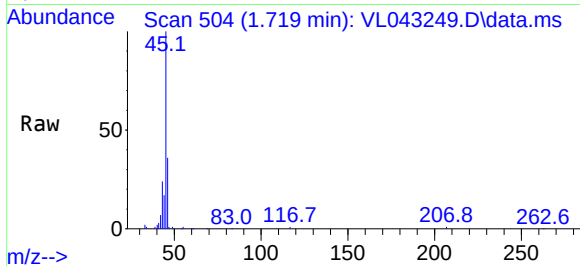
#13
Ethanol
Concen: 6.362 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 45 Resp: 13138
Ion Ratio Lower Upper
45 100
46 37.7 15.0 59.8

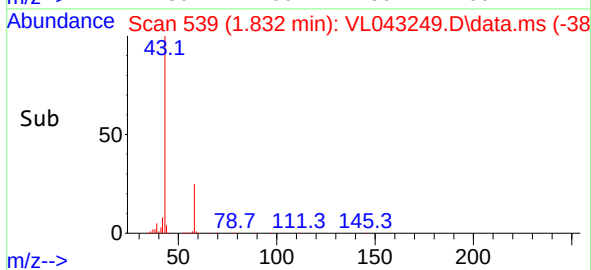
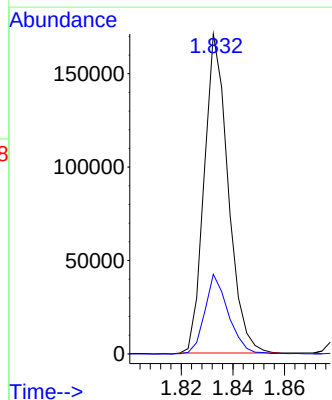
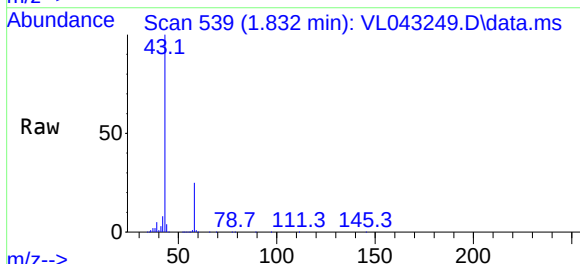
Manual Integrations
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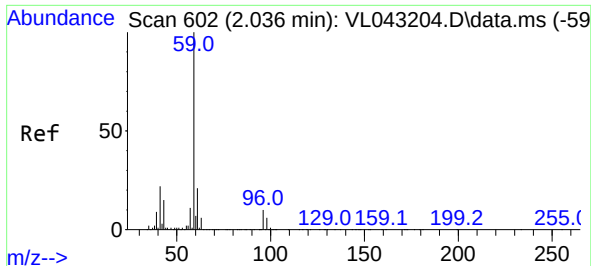
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#15
Acetone
Concen: 7.950 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

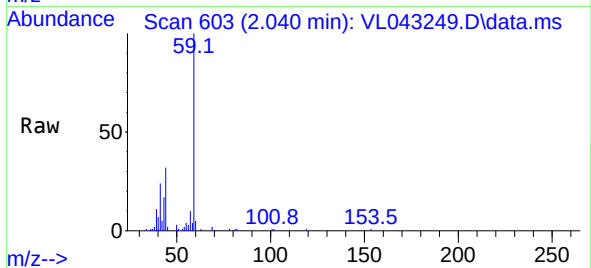
Tgt Ion: 43 Resp: 110125
Ion Ratio Lower Upper
43 100
58 24.6 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.040 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

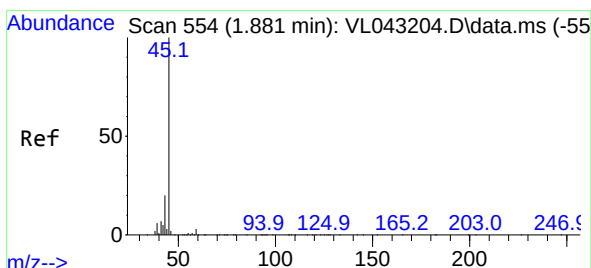
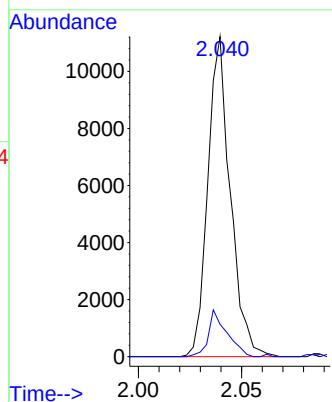
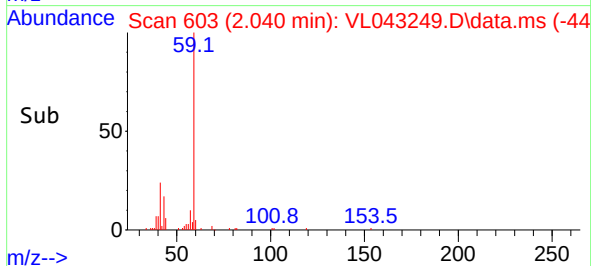
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP



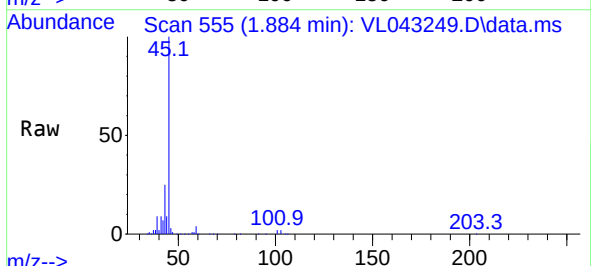
Tgt Ion: 59 Resp: 8475
Ion Ratio Lower Upper
59 100
57 12.2 9.0 13.4

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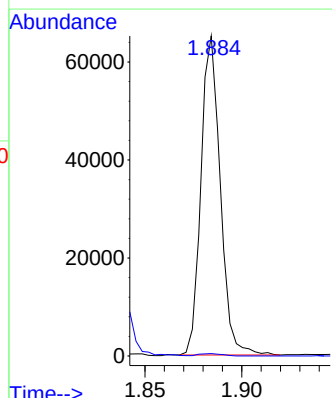
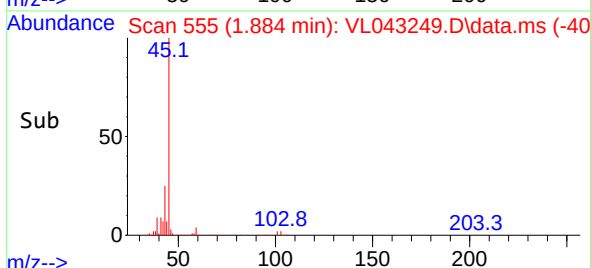
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

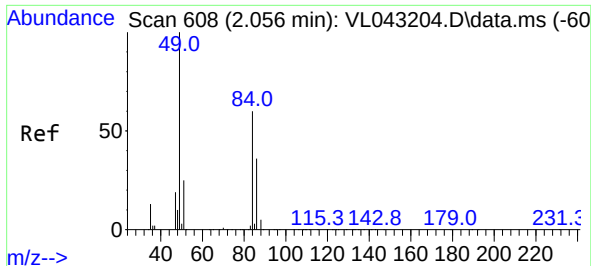


#19
Isopropyl Alcohol
Concen: 5.777 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01



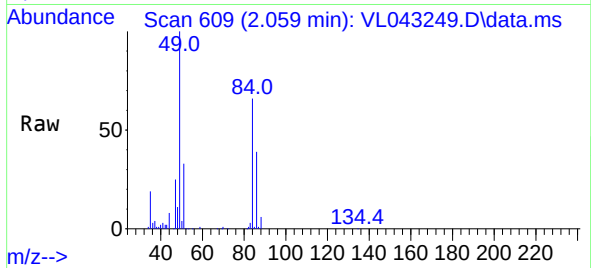
Tgt Ion: 45 Resp: 45218
Ion Ratio Lower Upper
45 100
58 60.0 31.3 46.9#





#20
Methylene Chloride
Concen: 4.188 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

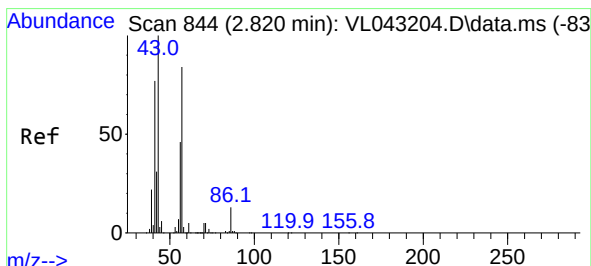
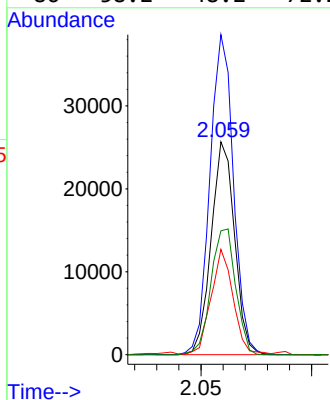
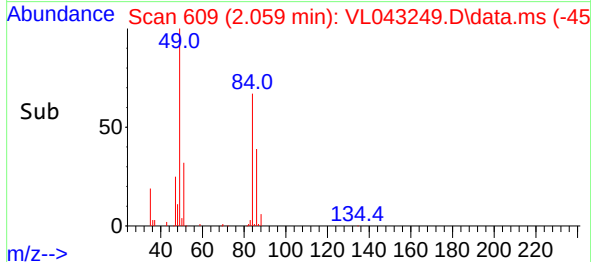


Tgt Ion: 84 Resp: 1895

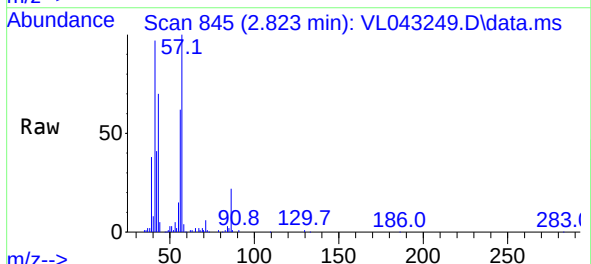
Ion	Ratio	Lower	Upper
84	100		
49	150.4	132.9	199.3
51	49.1	34.8	52.2
86	58.2	48.2	72.2

Manual Integrations
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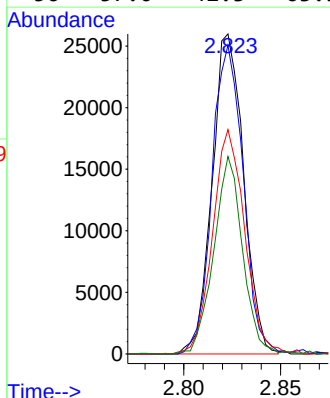
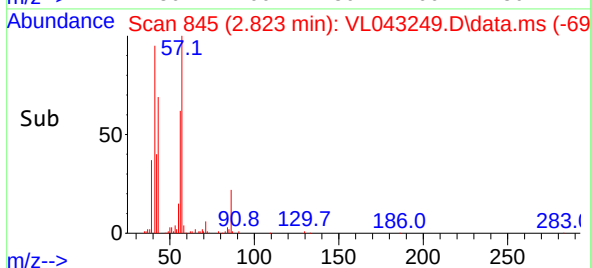


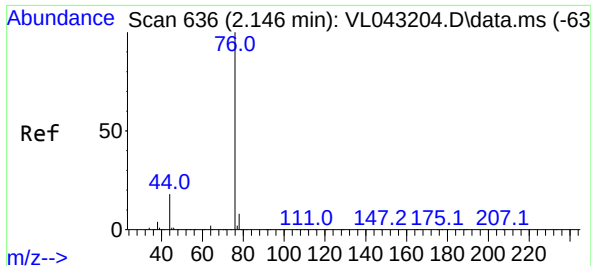
#26
Hexane
Concen: 2.236 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01



Tgt Ion: 57 Resp: 29288

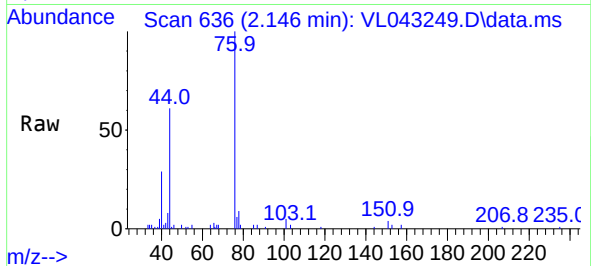
Ion	Ratio	Lower	Upper
57	100		
41	96.8	74.6	111.8
43	71.9	179.0	268.4#
56	57.0	42.3	63.5





#27
Carbon Disulfide
Concen: 0.351 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

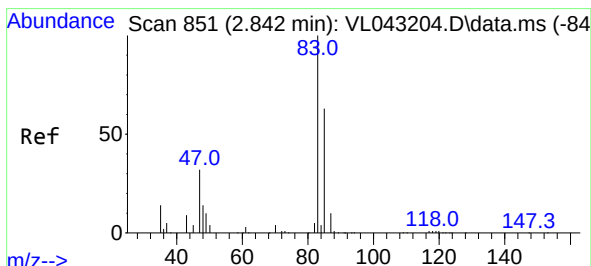
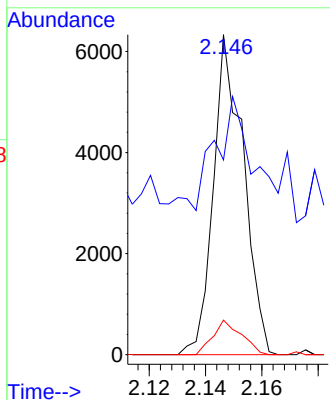
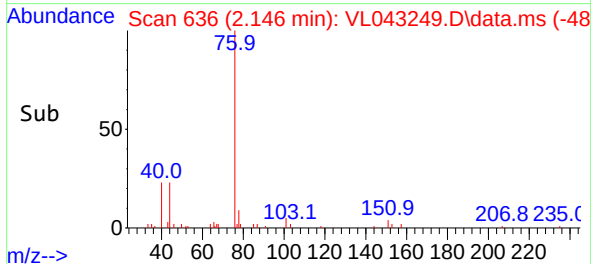
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP



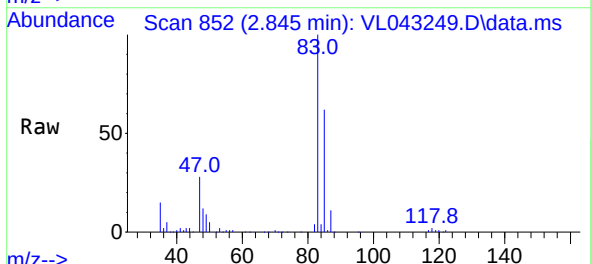
Tgt Ion: 76 Resp: 4694
Ion Ratio Lower Upper
76 100
44 132.7 16.1 24.1
78 10.5 9.6 14.4

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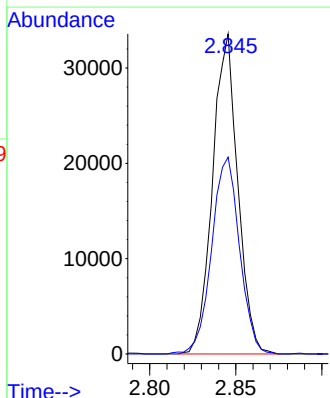
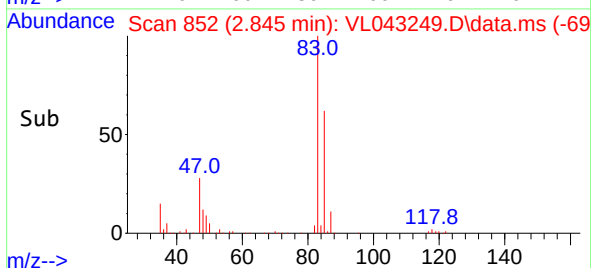
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

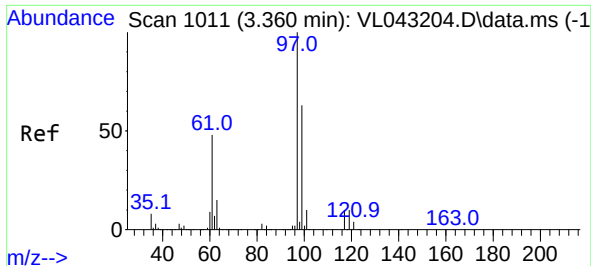


#29
Chloroform
Concen: 1.840 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01



Tgt Ion: 83 Resp: 34264
Ion Ratio Lower Upper
83 100
85 61.5 50.5 75.7





#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv m

RT: 3.373 min Scan# 1011

Delta R.T. 0.013 min

Lab File: VL043249.D

Acq: 19 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

9A-SG-2DUP

Tgt Ion: 97 Resp: 809

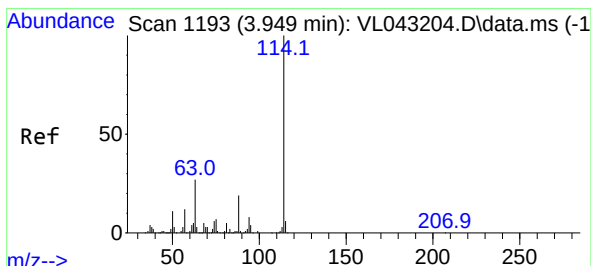
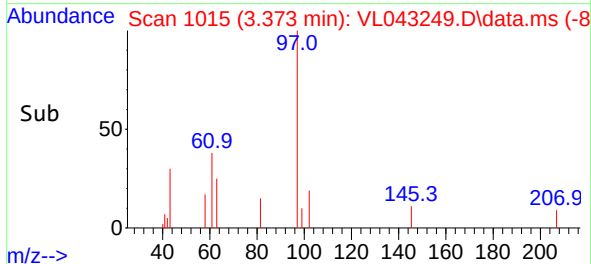
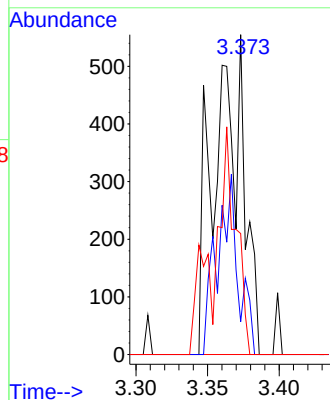
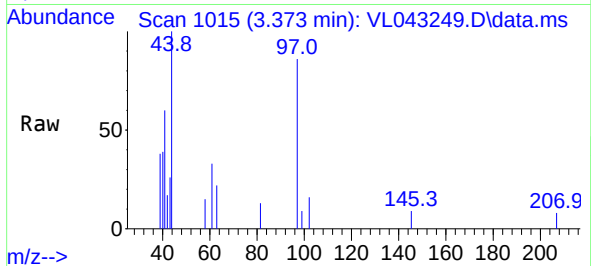
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5
61	53.3	38.9	58.3

Manual Integrations

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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: 3.952 min Scan# 1194

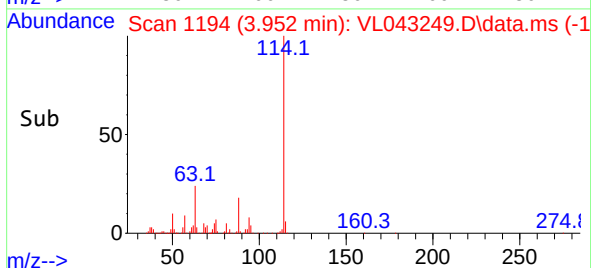
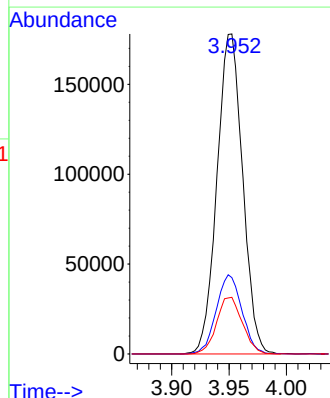
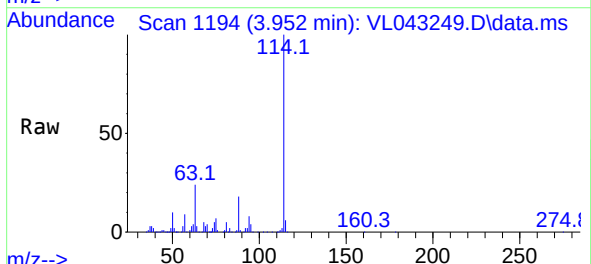
Delta R.T. 0.003 min

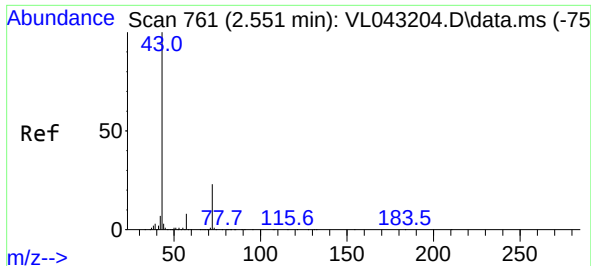
Lab File: VL043249.D

Acq: 19 Nov 2025 21:01

Tgt Ion:114 Resp: 276826

Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.0	31.6
88	17.9	14.9	22.3





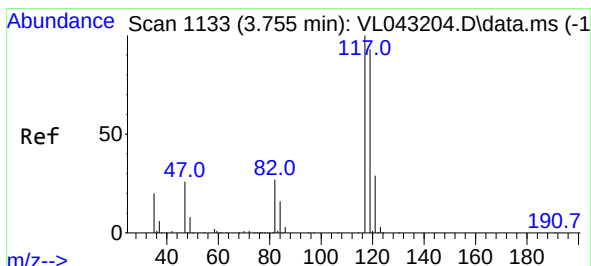
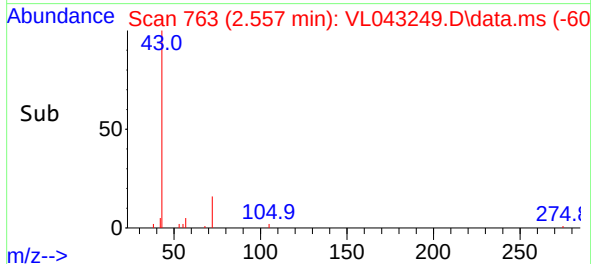
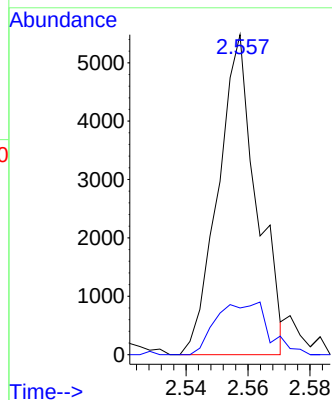
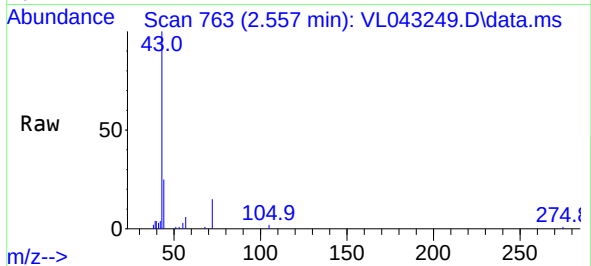
#34
2-Butanone
Concen: 0.242 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP

Tgt Ion: 43 Resp: 4730
Ion Ratio Lower Upper
43 100
72 22.2 18.1 27.1

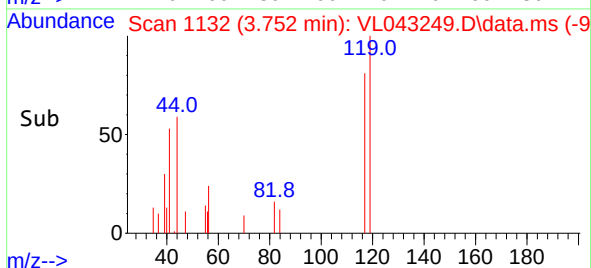
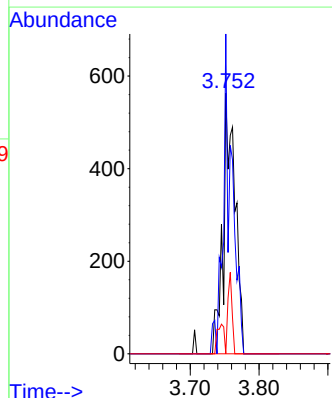
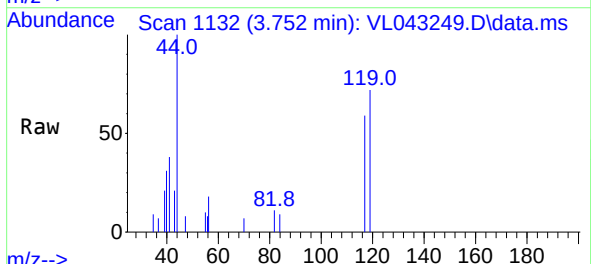
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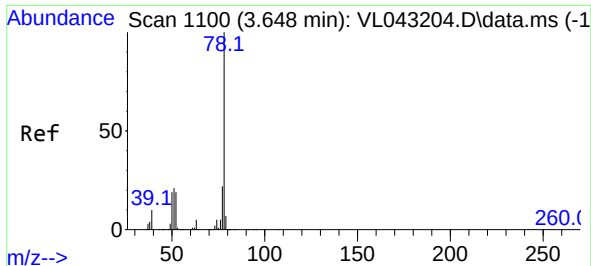
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

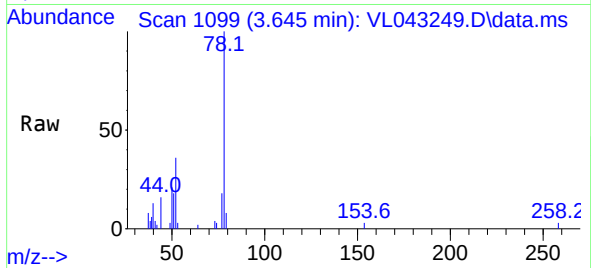
Tgt Ion:117 Resp: 688
Ion Ratio Lower Upper
117 100
119 122.7 74.6 112.0#
121 0.0 23.2 34.8#





#36
Benzene
Concen: 0.137 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

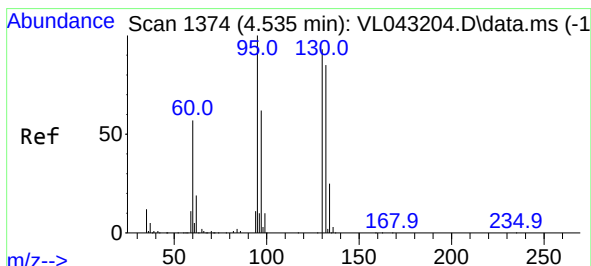
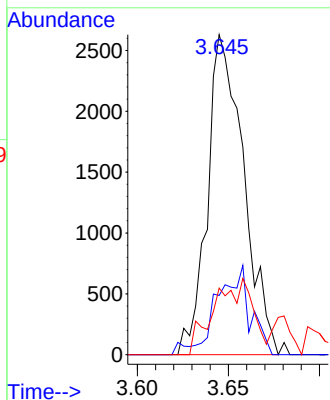
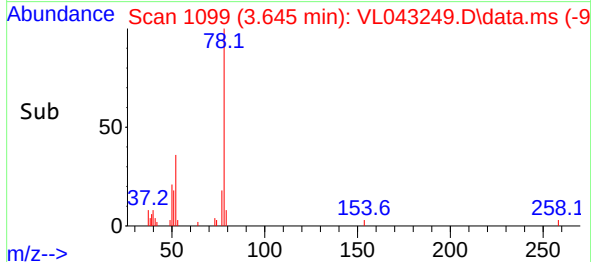
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP



Tgt Ion: 78 Resp: 3642
Ion Ratio Lower Upper
78 100
77 18.5 17.5 26.3
50 20.8 15.5 23.3

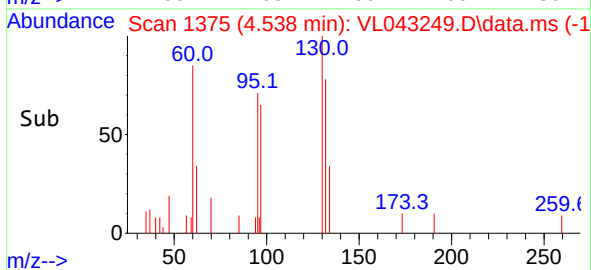
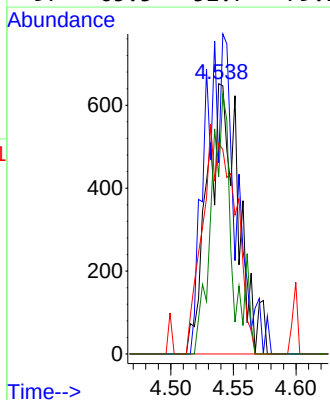
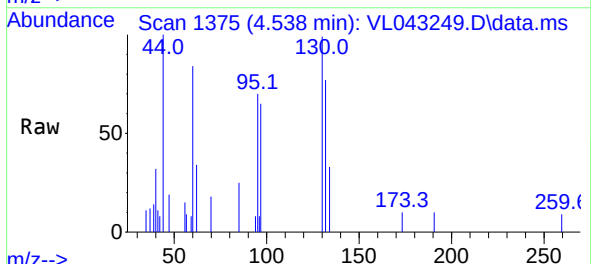
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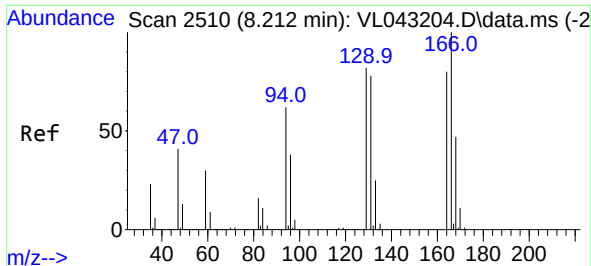
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#38
Trichloroethene
Concen: 0.109 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

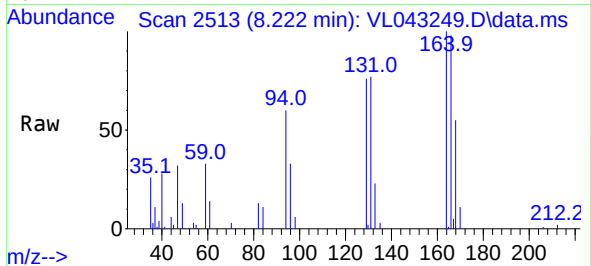
Tgt Ion:130 Resp: 1132
Ion Ratio Lower Upper
130 100
95 70.7 85.7 128.5#
132 77.9 73.4 110.0
97 65.5 52.7 79.1





#52
Tetrachloroethene
Concen: 0.670 ppbv m
RT: 8.222 min Scan# 2110
Delta R.T. 0.010 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

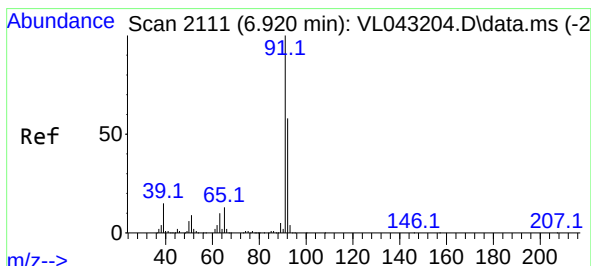
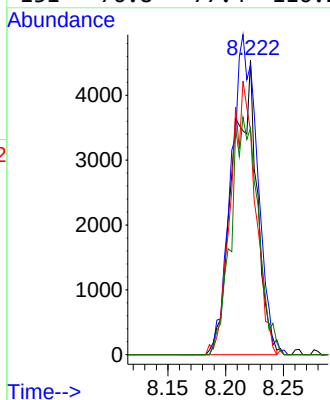
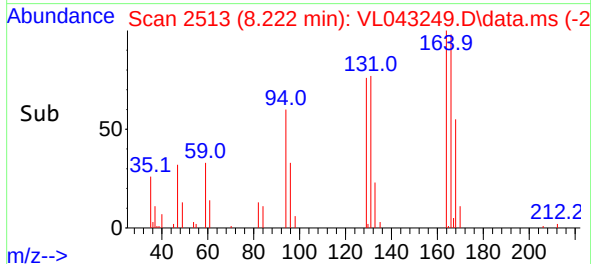
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP



Tgt Ion:164 Resp: 6604
Ion Ratio Lower Upper
164 100
166 98.3 99.4 149.2
129 76.1 81.8 122.8
131 76.8 77.4 116.2

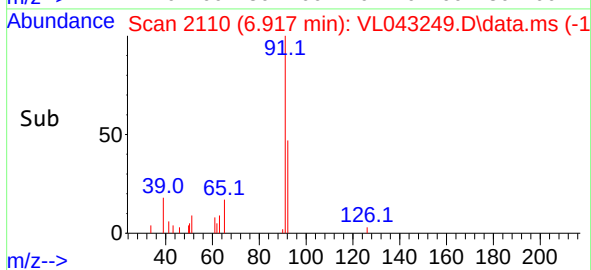
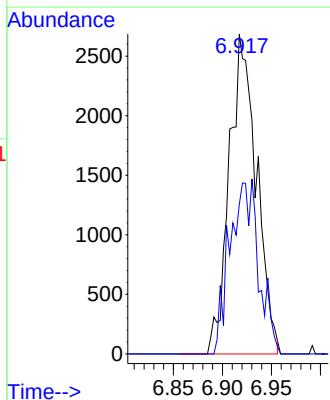
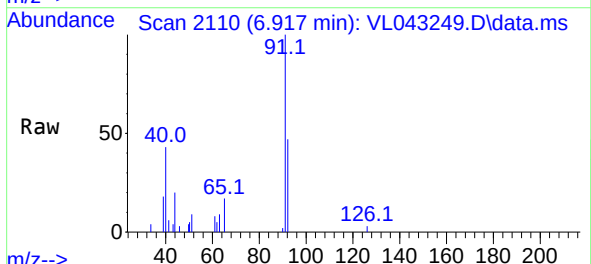
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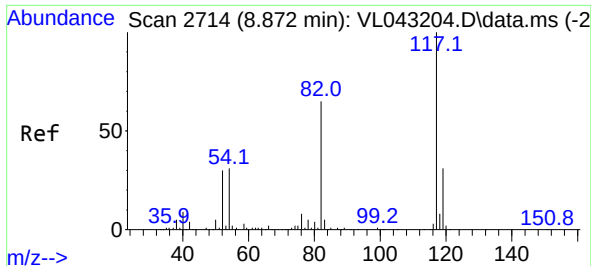
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#53
Toluene
Concen: 0.164 ppbv m
RT: 6.917 min Scan# 2110
Delta R.T. -0.003 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

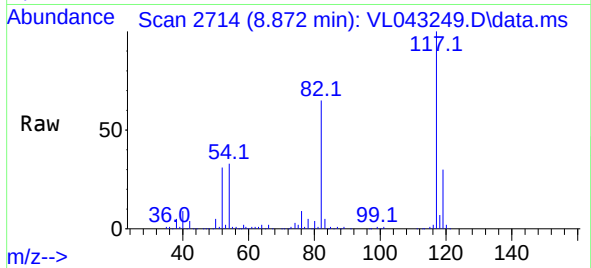
Tgt Ion: 91 Resp: 5159
Ion Ratio Lower Upper
91 100
92 57.5 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01

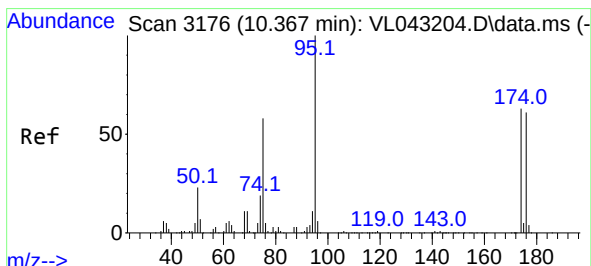
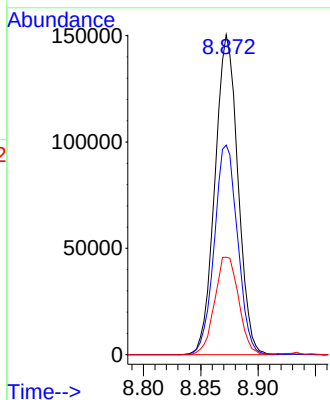
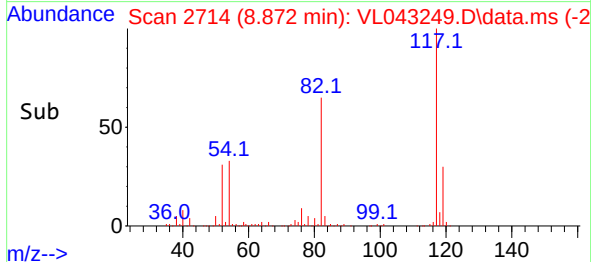
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2DUP



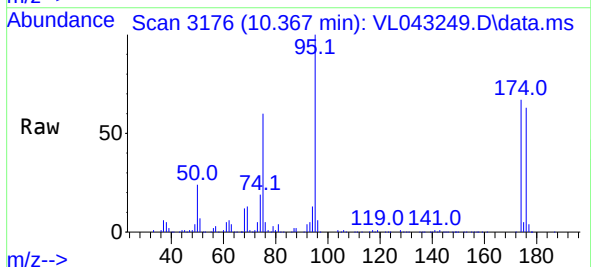
Tgt Ion: 117 Resp: 209824
Ion Ratio Lower Upper
117 100
82 66.7 56.1 84.1
119 31.9 25.0 37.6

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



#68
1-Bromo-4-Fluorobenzene
Concen: 10.026 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043249.D
Acq: 19 Nov 2025 21:01



Tgt Ion: 95 Resp: 154207
Ion Ratio Lower Upper
95 100
174 66.2 50.2 75.2
175 4.7 4.1 6.1

