

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
 Data File : VL043199.D
 Acq On : 13 Nov 2025 14:47
 Operator : SY/MD
 Sample : Q3627-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-7-SS-1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

Quant Time: Nov 14 04:40:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	140657	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	374439	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	343535	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	234436	8.780	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.800%
Target Compounds						Qvalue
9) Propene	1.486	41	8148	0.849	ppbv	98
13) Ethanol	1.725	45	139693	39.357	ppbv	97
15) Acetone	1.839	43	89656	4.729	ppbv	93
17) tert-Butyl alcohol	2.049	59	4553	0.175	ppbv	99
19) Isopropyl Alcohol	1.890	45	190045	16.095	ppbv #	38
20) Methylene Chloride	2.065	84	2288	0.305	ppbv #	72
26) Hexane	2.832	57	2858	0.132	ppbv #	59
34) 2-Butanone	2.567	43	35547	1.412	ppbv	98
35) Carbon Tetrachloride	3.774	117	932m	0.035	ppbv	
36) Benzene	3.667	78	5825	0.165	ppbv #	82
38) Trichloroethene	4.561	130	471m	0.032	ppbv	
50) 4-Methyl-2-Pentanone	5.781	43	26967m	0.776	ppbv	
51) 2-Hexanone	7.457	43	5076m	0.195	ppbv	
52) Tetrachloroethene	8.231	164	11745	0.924	ppbv	94
53) Toluene	6.949	91	5012m	0.120	ppbv	

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

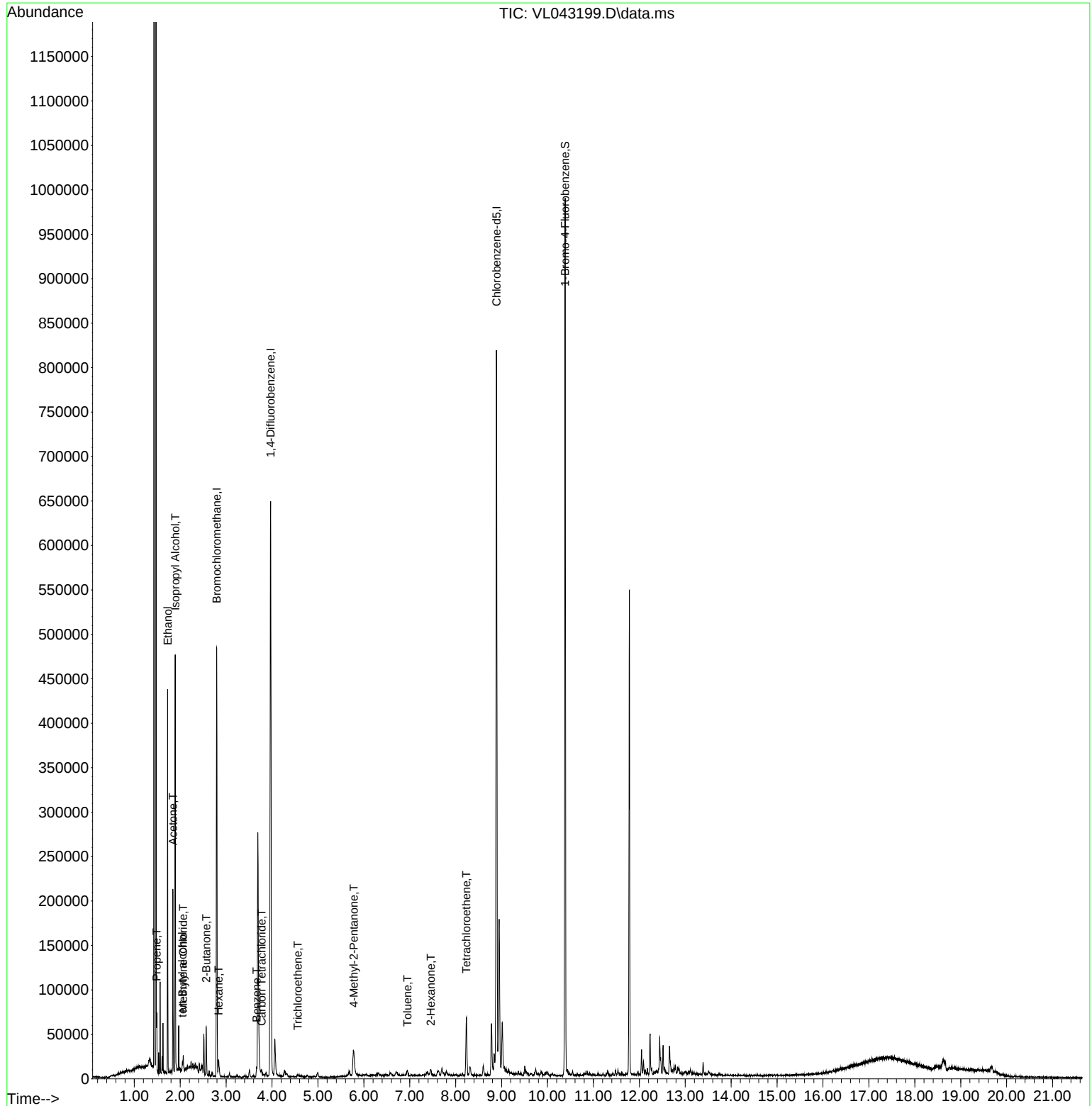
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043199.D
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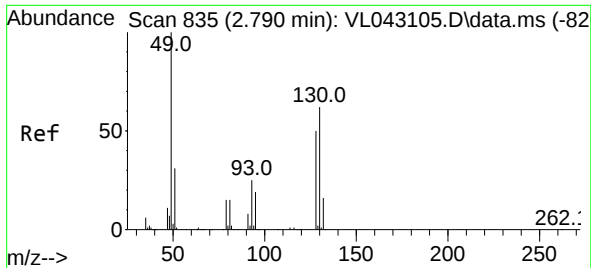
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Quant Time: Nov 14 04:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

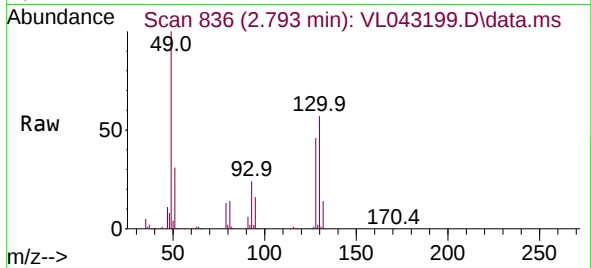
Reviewed By : Semsettin Yesilyurt 11/17/2025
Supervised By : Mahesh Dadoda 11/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

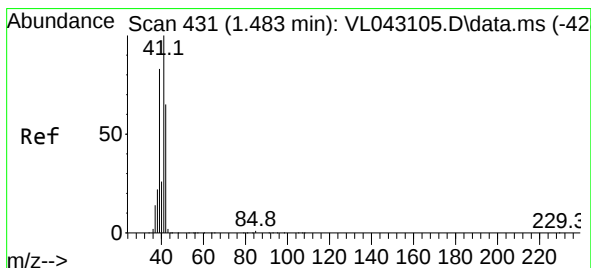
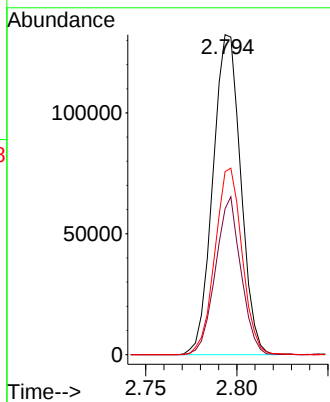
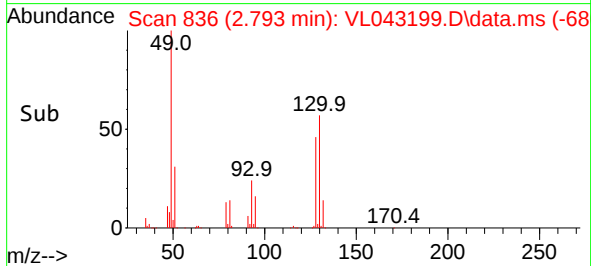
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL



Tgt Ion: 49 Resp: 140652
Ion Ratio Lower Upper
49 100
128 45.0 24.4 73.4
130 57.0 31.0 93.0

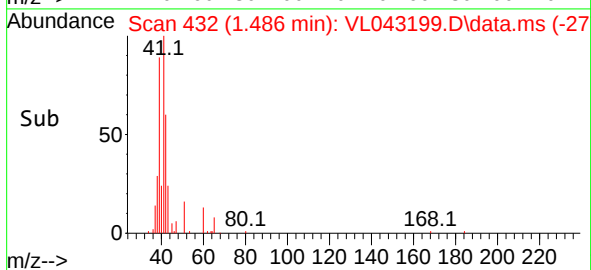
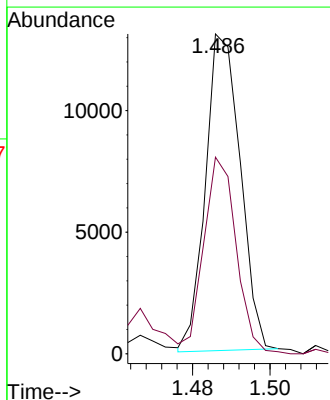
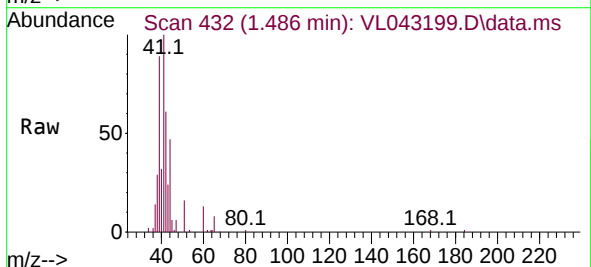
Manual Integrations
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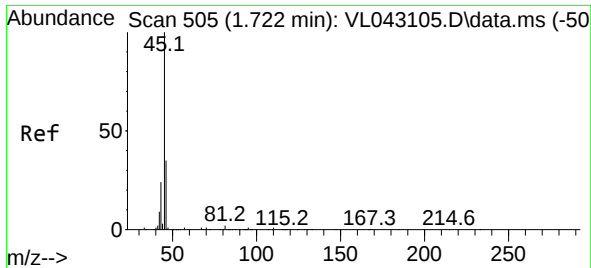
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#9
Propene
Concen: 0.849 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

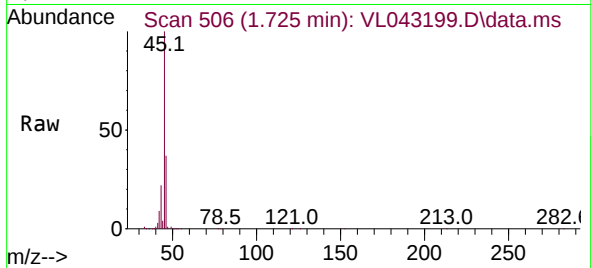
Tgt Ion: 41 Resp: 8148
Ion Ratio Lower Upper
41 100
42 70.7 55.1 82.7





#13
Ethanol
Concen: 39.357 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

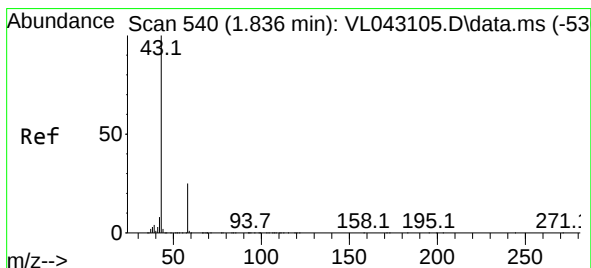
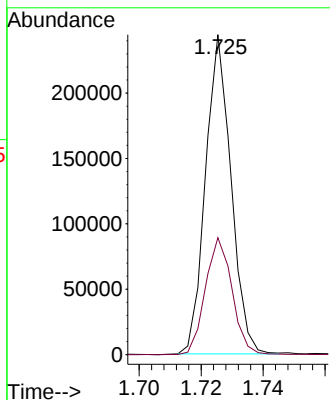
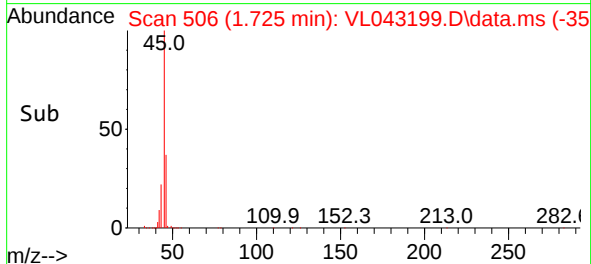
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL



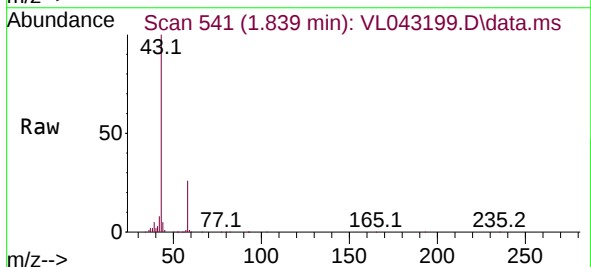
Tgt Ion: 45 Resp: 139693
Ion Ratio Lower Upper
45 100
46 38.4 14.7 58.9

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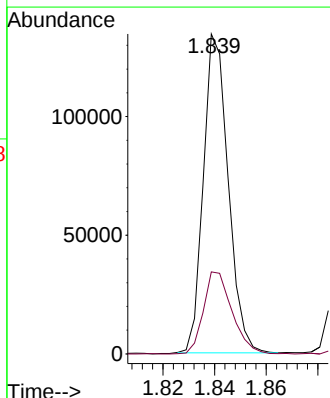
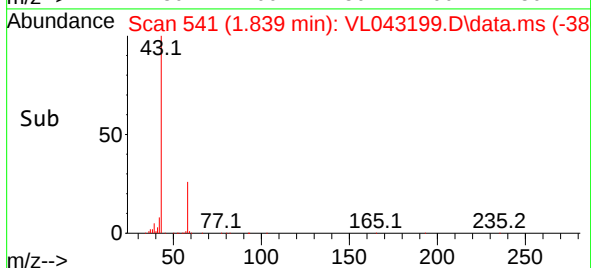
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

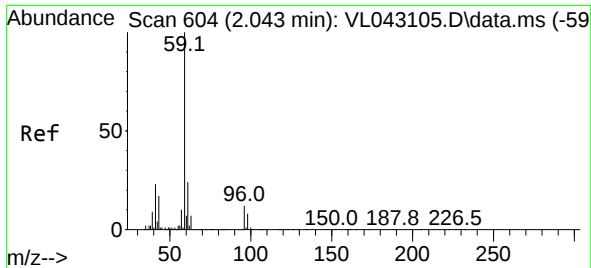


#15
Acetone
Concen: 4.729 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47



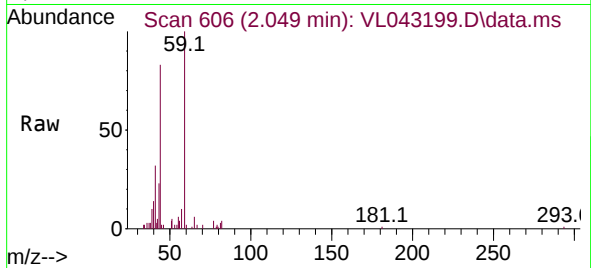
Tgt Ion: 43 Resp: 89656
Ion Ratio Lower Upper
43 100
58 29.6 20.8 31.2





#17
tert-Butyl alcohol
Concen: 0.175 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

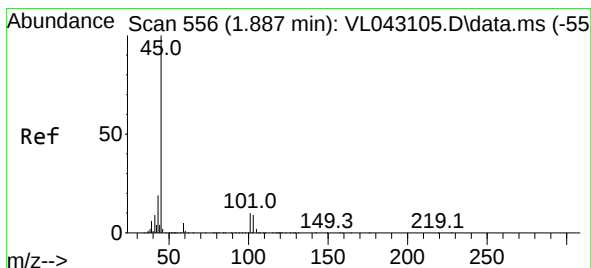
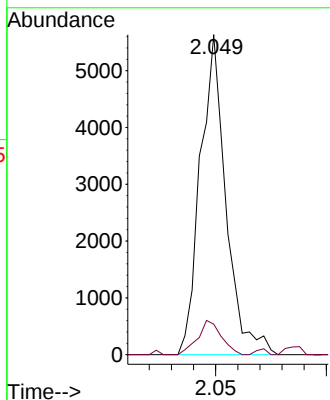
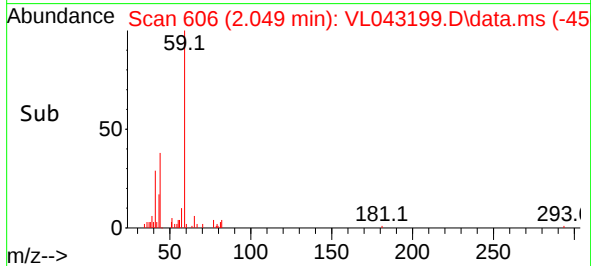
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL



Tgt Ion: 59 Resp: 4553
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.4

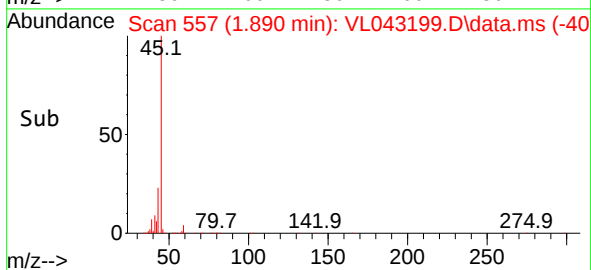
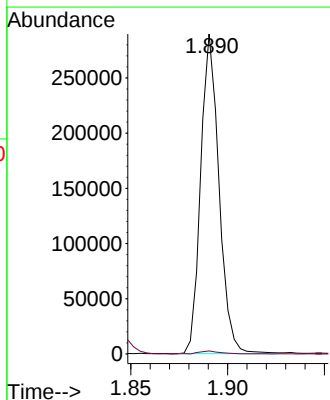
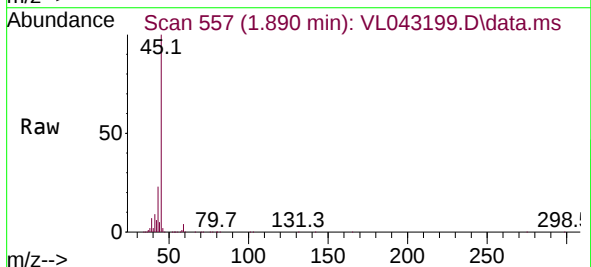
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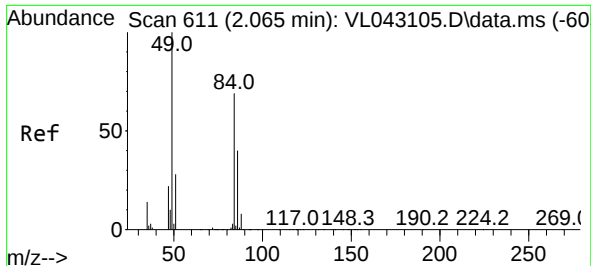
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#19
Isopropyl Alcohol
Concen: 16.095 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Tgt Ion: 45 Resp: 190045
Ion Ratio Lower Upper
45 100
58 1.1 31.3 46.9#





#20

Methylene Chloride

Concen: 0.305 ppbv

RT: 2.065 min Scan# 611

Delta R.T. -0.000 min

Lab File: VL043199.D

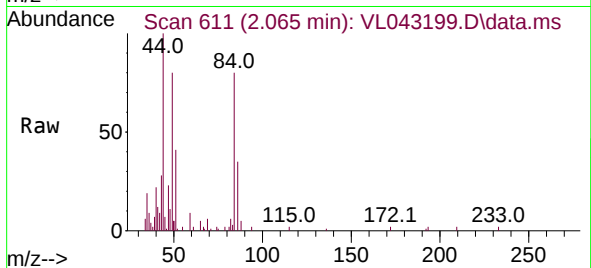
Acq: 13 Nov 2025 14:47

Instrument :

MSVOA_L

ClientSampleId :

UNIT-7-SS-1DL

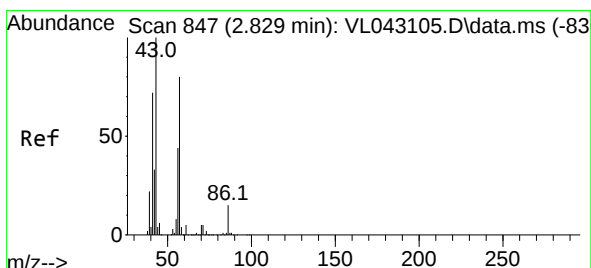
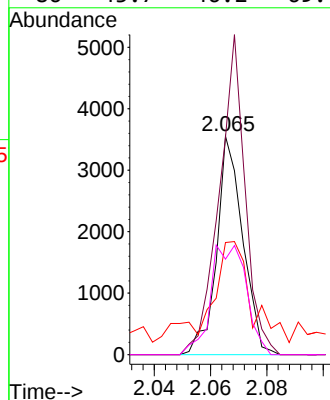
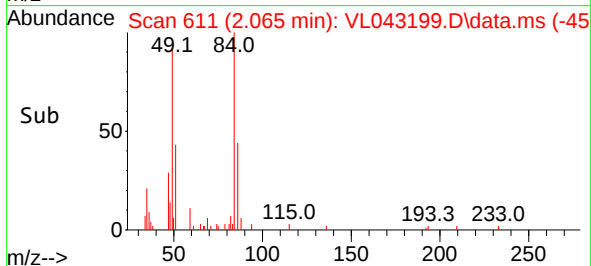


Tgt Ion	Ratio	Lower	Upper
84	100		
49	99.4	116.6	175.0#
51	37.0	34.8	52.2
86	43.7	46.2	69.4#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#26

Hexane

Concen: 0.132 ppbv

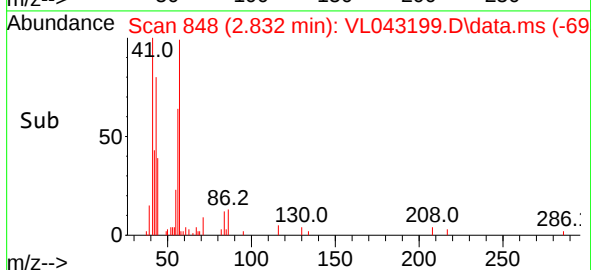
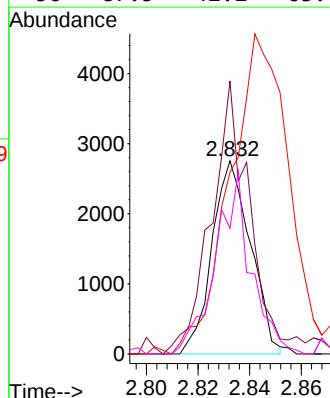
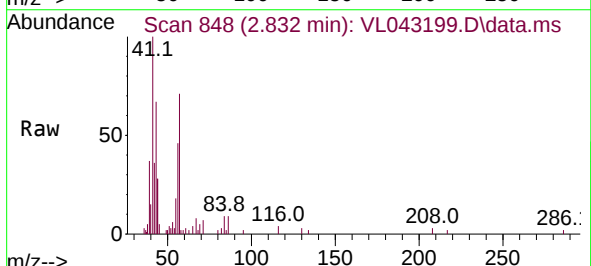
RT: 2.832 min Scan# 848

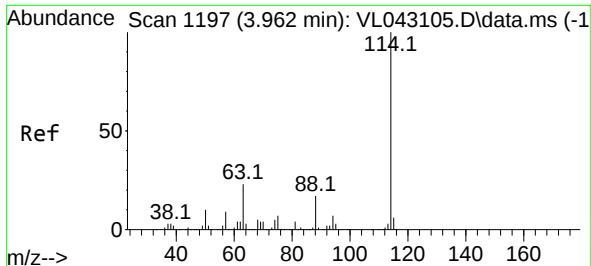
Delta R.T. 0.003 min

Lab File: VL043199.D

Acq: 13 Nov 2025 14:47

Tgt Ion	Ratio	Lower	Upper
57	100		
41	154.4	71.4	107.0#
43	268.3	178.5	267.7#
56	87.5	42.2	63.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.006 min

Lab File: VL043199.D

Acq: 13 Nov 2025 14:47

Instrument :

MSVOA_L

ClientSampleId :

UNIT-7-SS-1DL

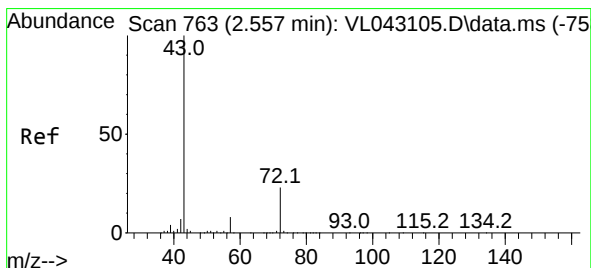
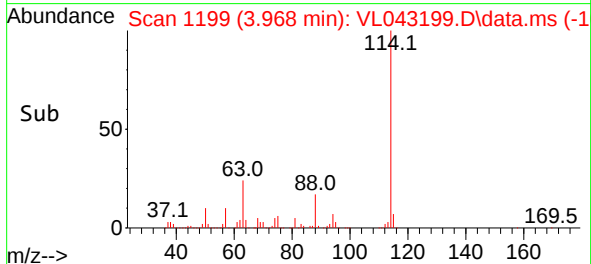
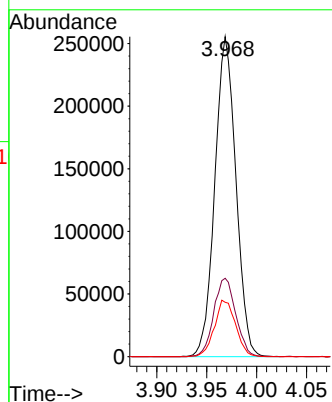
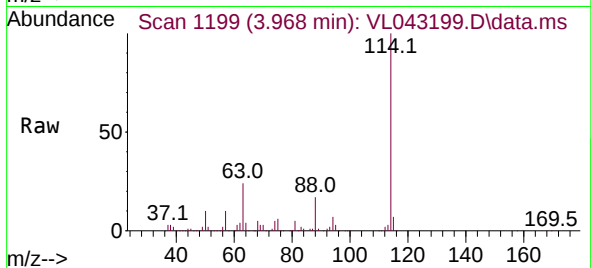
Tgt Ion:114 Resp: 374439

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.3	28.9
88	17.7	13.9	20.9

Manual Integrations

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Supervised By :Mahesh Dadoda 11/18/2025



#34

2-Butanone

Concen: 1.412 ppbv

RT: 2.567 min Scan# 766

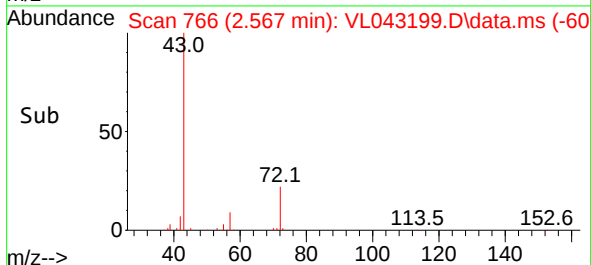
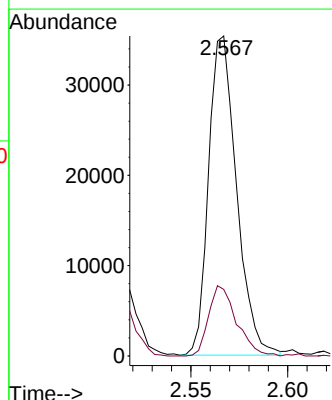
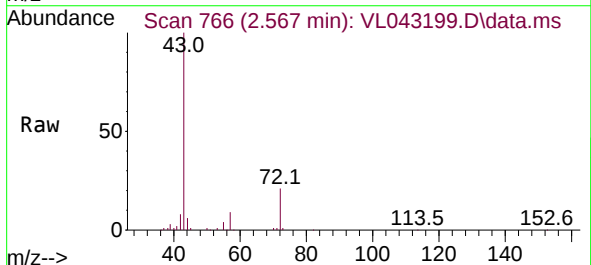
Delta R.T. 0.010 min

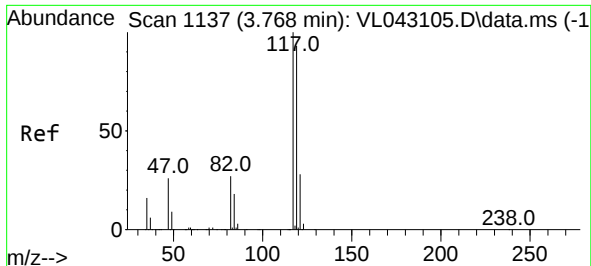
Lab File: VL043199.D

Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 35547

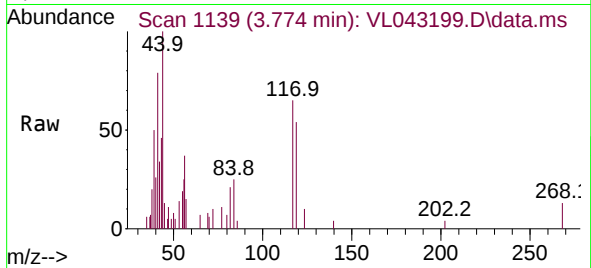
Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.4	27.6





#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.774 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

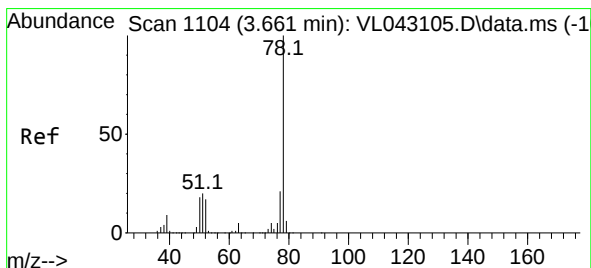
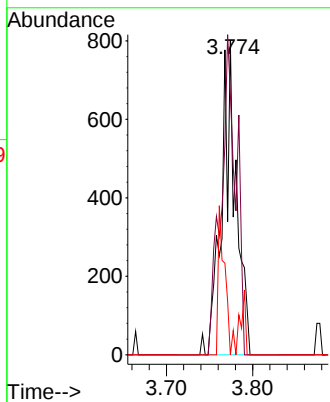
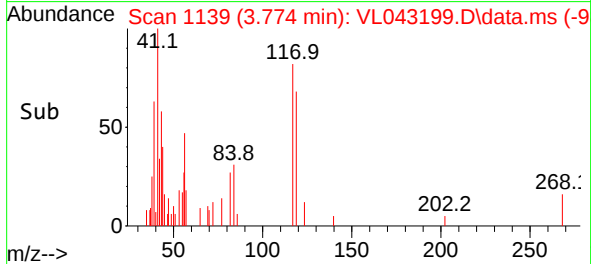
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL



Tgt Ion:117 Resp: 932
Ion Ratio Lower Upper
117 100
119 83.0 74.1 111.1
121 0.0 22.2 33.2

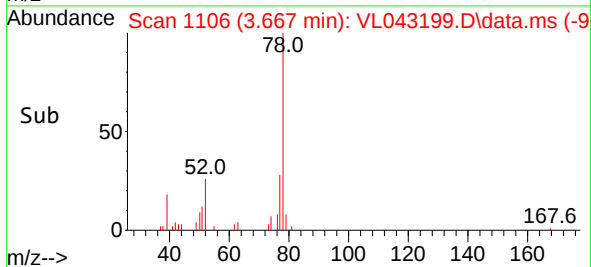
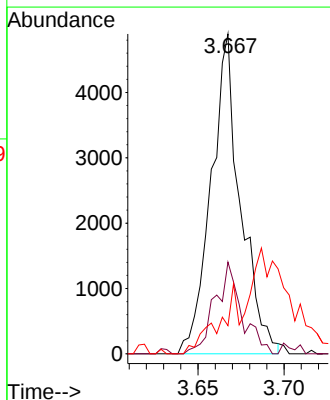
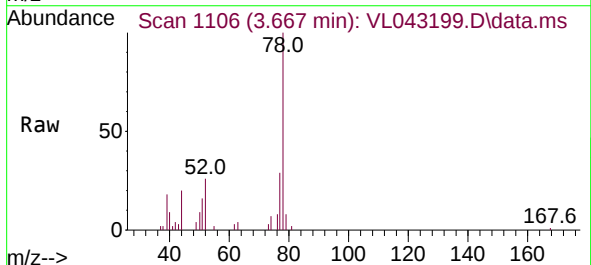
Manual Integrations
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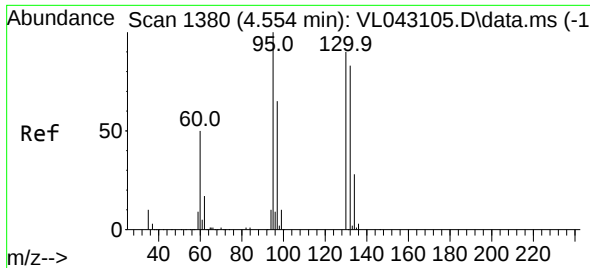
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#36
Benzene
Concen: 0.165 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

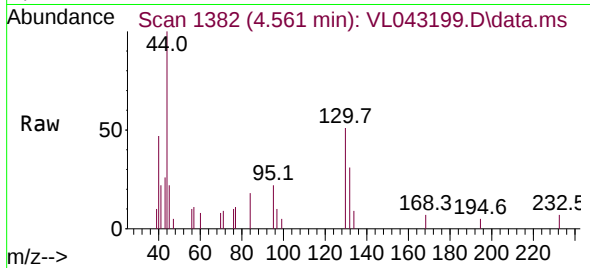
Tgt Ion: 78 Resp: 5825
Ion Ratio Lower Upper
78 100
77 28.7 17.0 25.6#
50 8.8 14.6 22.0#





#38
 Trichloroethene
 Concen: 0.032 ppbv m
 RT: 4.561 min Scan# 1380
 Delta R.T. 0.006 min
 Lab File: VL043199.D
 Acq: 13 Nov 2025 14:47

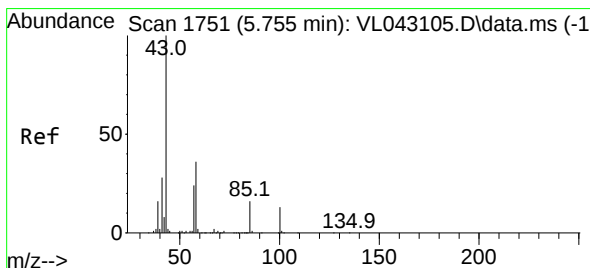
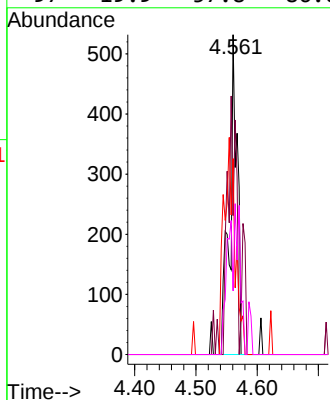
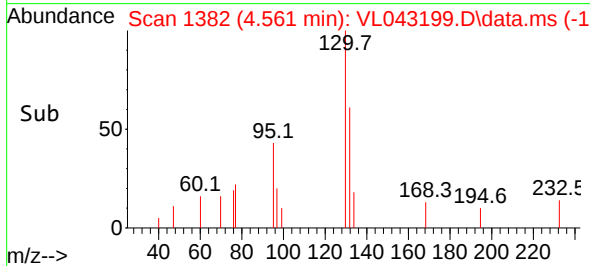
Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-7-SS-1DL



Tgt Ion:130 Resp: 471
 Ion Ratio Lower Upper
 130 100
 95 43.4 88.6 133.0#
 132 61.3 73.4 110.0#
 97 19.9 57.8 86.6#

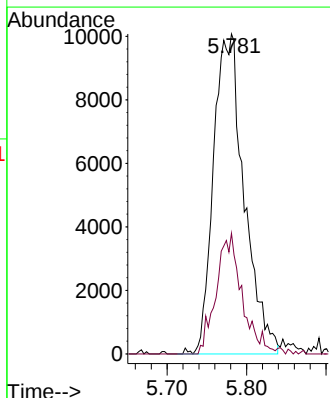
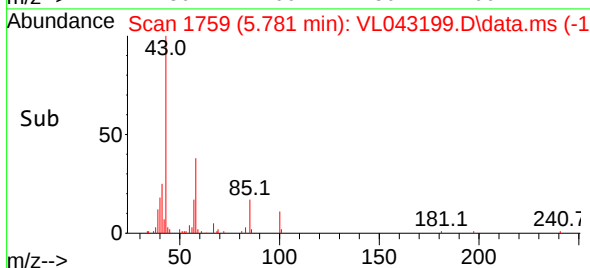
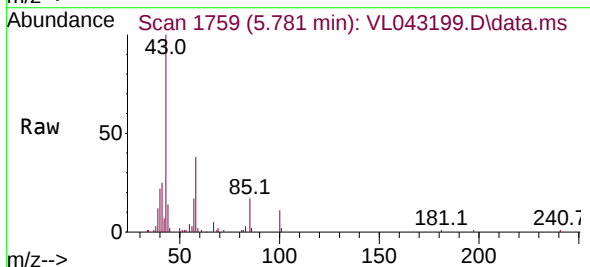
Manual Integrations
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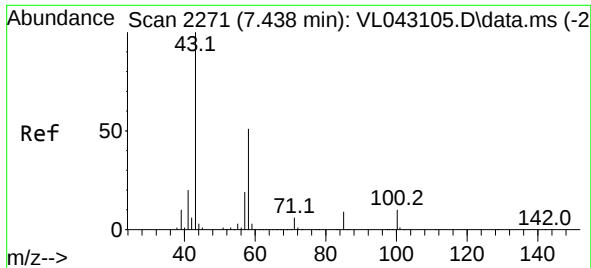
Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025



#50
 4-Methyl-2-Pentanone
 Concen: 0.776 ppbv m
 RT: 5.781 min Scan# 1759
 Delta R.T. 0.026 min
 Lab File: VL043199.D
 Acq: 13 Nov 2025 14:47

Tgt Ion: 43 Resp: 26967
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.1 43.7#





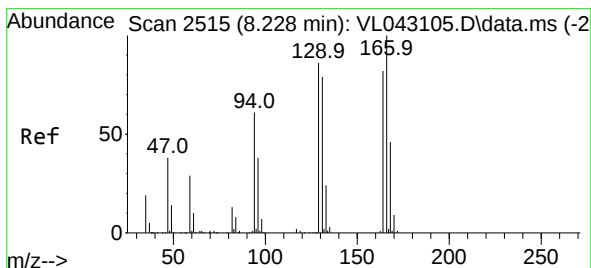
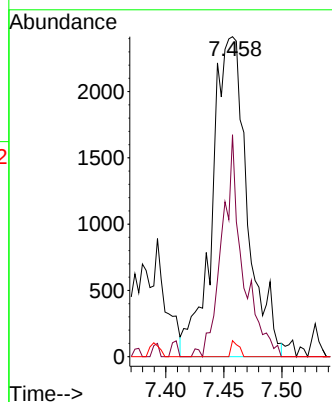
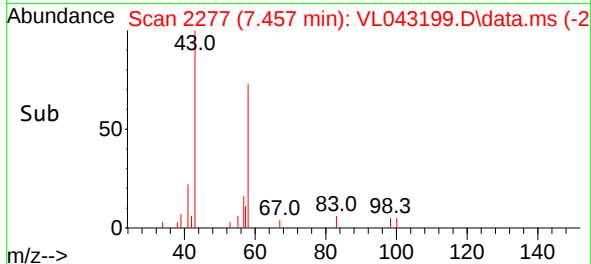
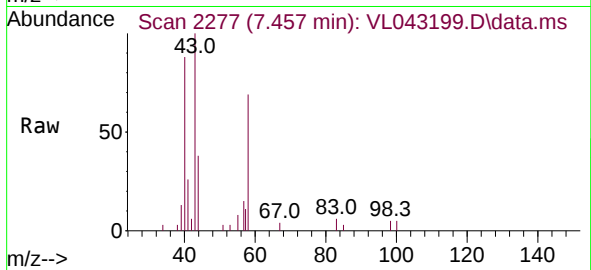
#51
2-Hexanone
Concen: 0.195 ppbv m
RT: 7.457 min Scan# 2271
Delta R.T. 0.019 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL

Tgt Ion: 43 Resp: 5076
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6
98 0.0 0.1 0.1

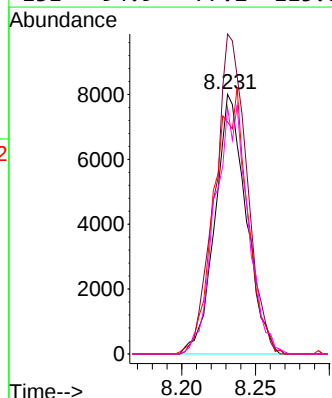
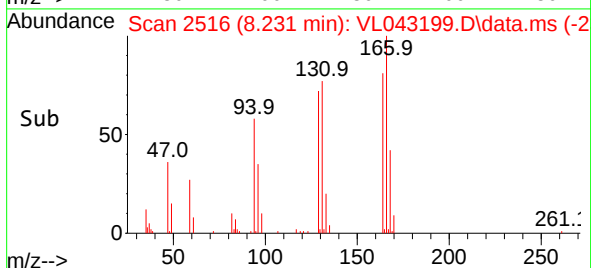
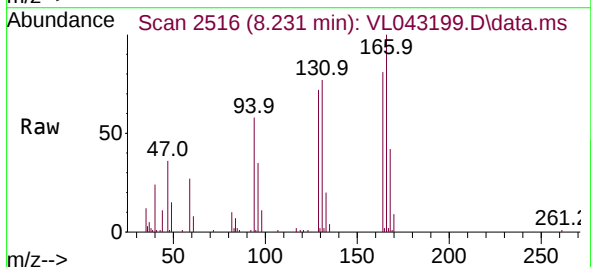
Manual Integrations
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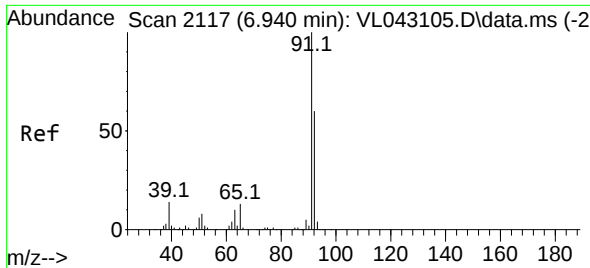
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#52
Tetrachloroethene
Concen: 0.924 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

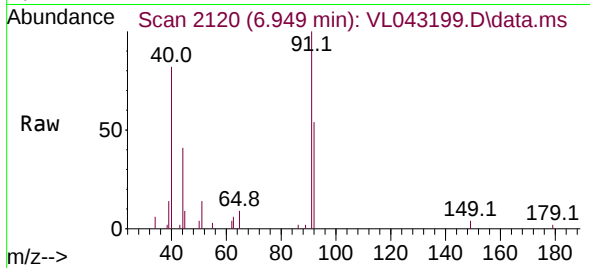
Tgt Ion:164 Resp: 11745
Ion Ratio Lower Upper
164 100
166 123.3 97.6 146.4
129 90.5 84.5 126.7
131 94.9 77.2 115.8





#53
Toluene
Concen: 0.120 ppbv m
RT: 6.949 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

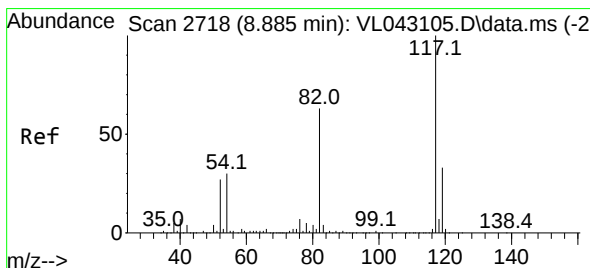
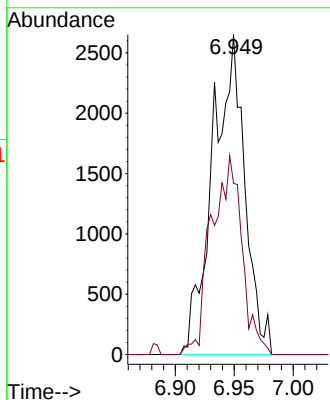
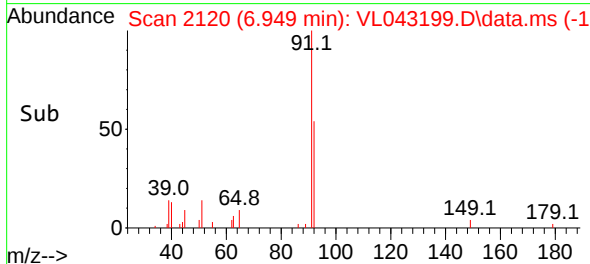
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-SS-1DL



Tgt Ion: 91 Resp: 5012
Ion Ratio Lower Upper
91 100
92 59.5 48.8 73.2

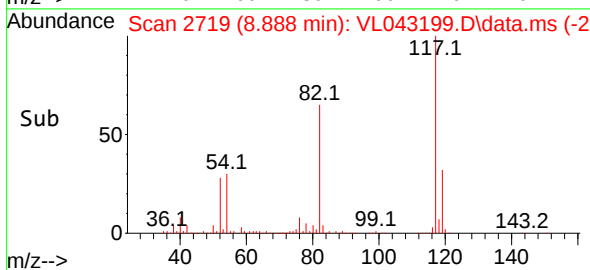
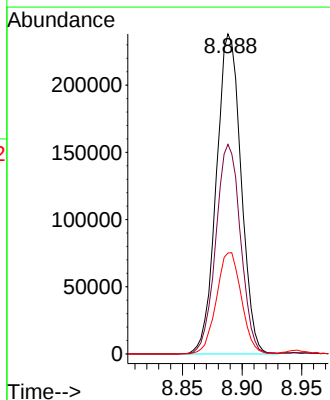
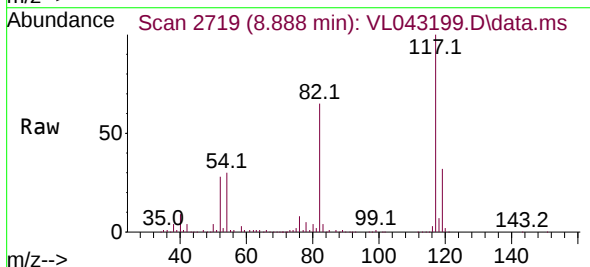
Manual Integrations
APPROVED

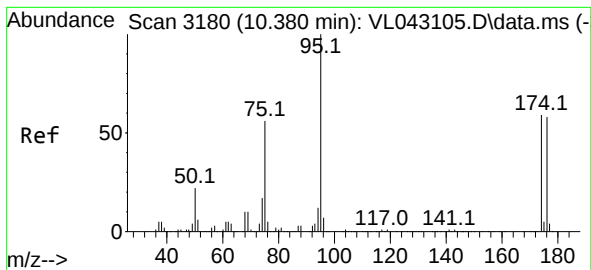
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043199.D
Acq: 13 Nov 2025 14:47

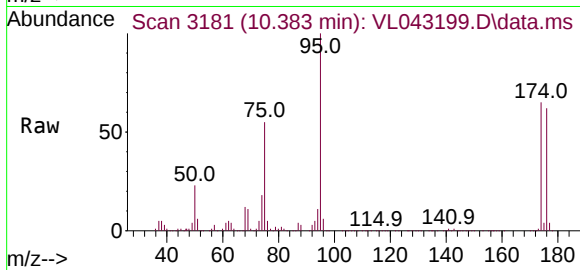
Tgt Ion:117 Resp: 343535
Ion Ratio Lower Upper
117 100
82 66.0 53.8 80.8
119 32.0 25.4 38.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.780 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. 0.003 min
 Lab File: VL043199.D
 Acq: 13 Nov 2025 14:47

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-7-SS-1DL



Tgt Ion: 95 Resp: 234436
 Ion Ratio Lower Upper
 95 100
 174 65.7 48.3 72.5
 175 4.9 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

