

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

07/24/2025
 Supervised By : Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
35) Carbon Tetrachloride	3.758	117	3035m	0.093	ppbv	
38) Trichloroethene	4.555	130	2207m	0.110	ppbv	
52) Tetrachloroethene	8.222	164	1852m	0.107	ppbv	
54) 1,2-Dibromoethane	7.665	107	2184m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	3084m	0.095	ppbv	
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96

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

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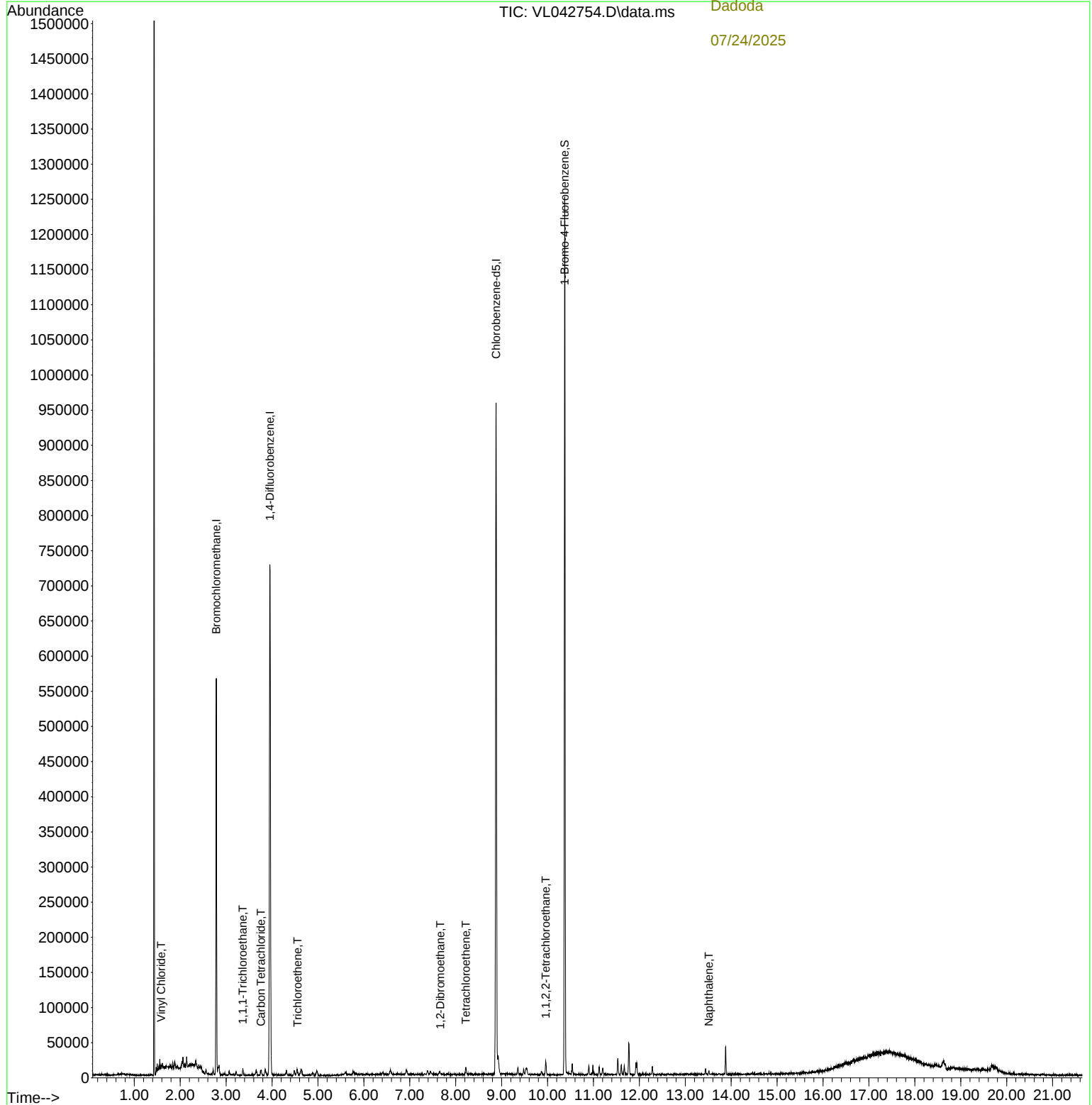
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

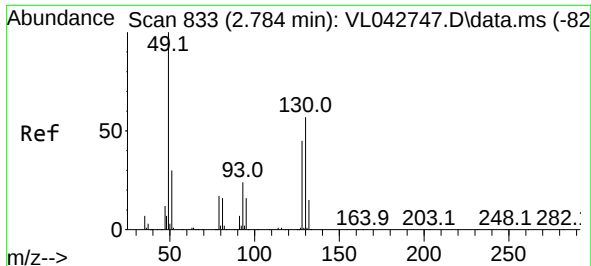
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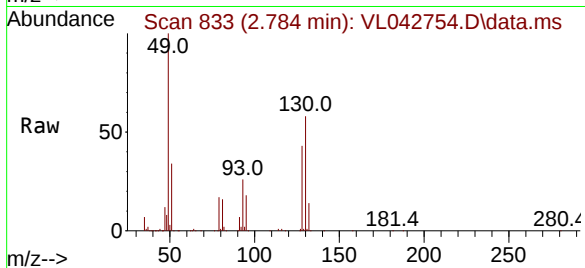
07/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

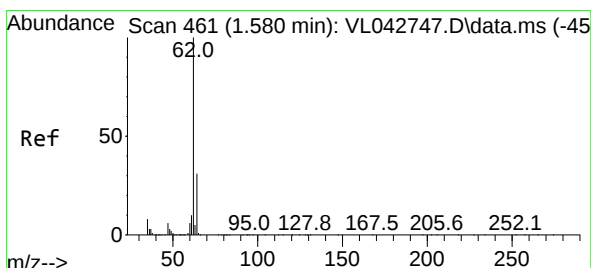
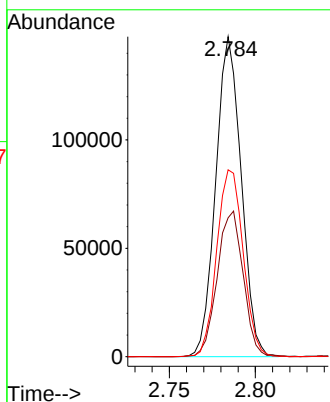
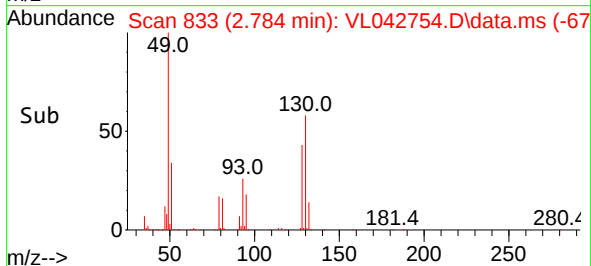
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 152358
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 60.6 30.3 90.8

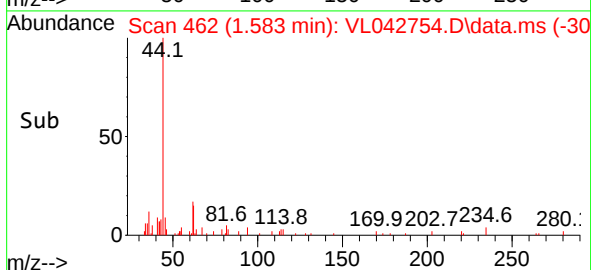
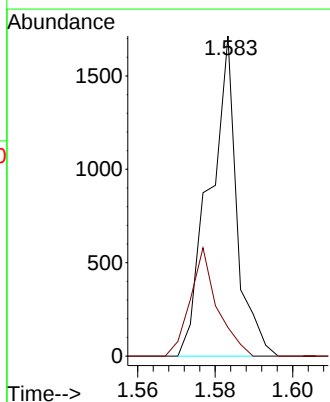
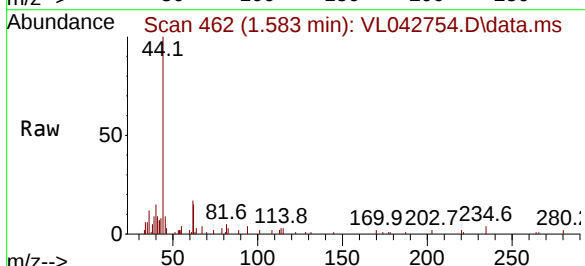
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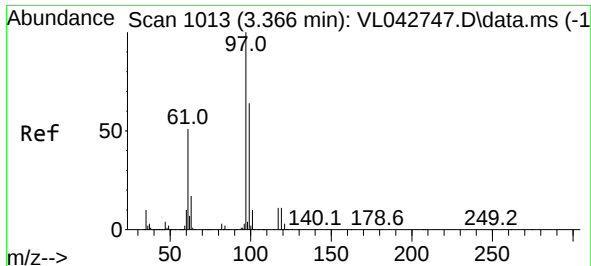
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#5
Vinyl Chloride
Concen: 0.104 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.004 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

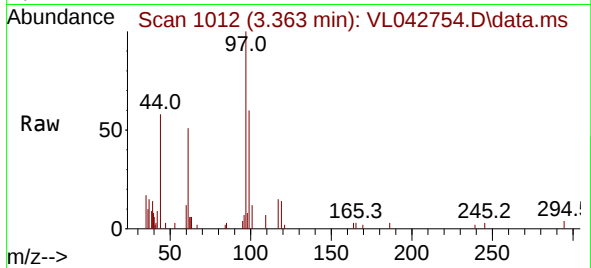
Tgt Ion: 62 Resp: 837
Ion Ratio Lower Upper
62 100
64 8.9 24.5 36.7#





#32
1,1,1-Trichloroethane
Concen: 0.108 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

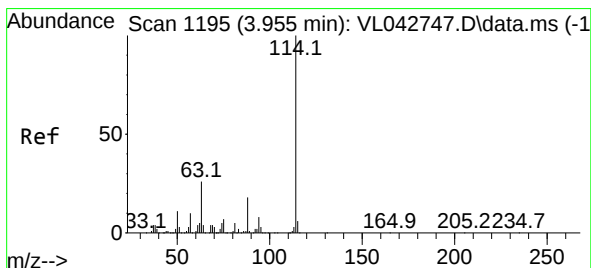
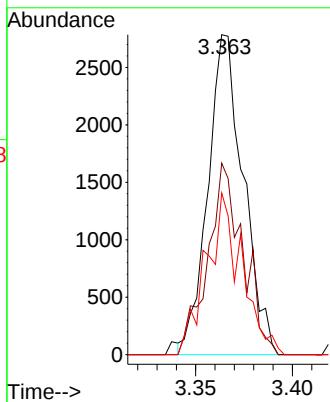
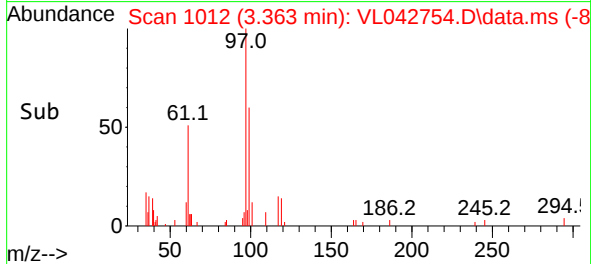
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 97 Resp: 3550
Ion Ratio Lower Upper
97 100
99 59.4 51.0 76.6
61 50.4 40.9 61.3

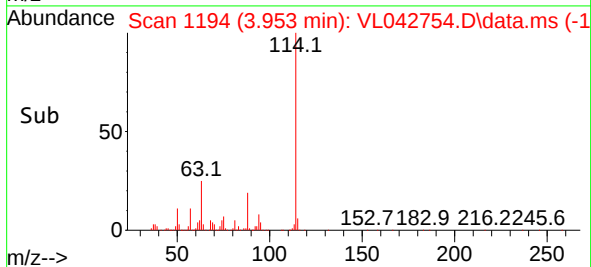
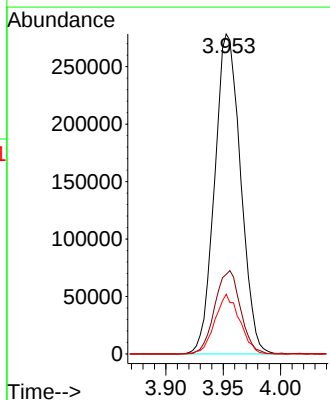
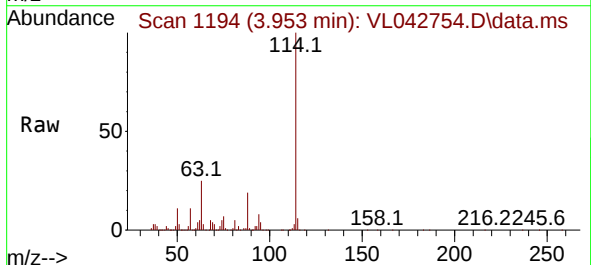
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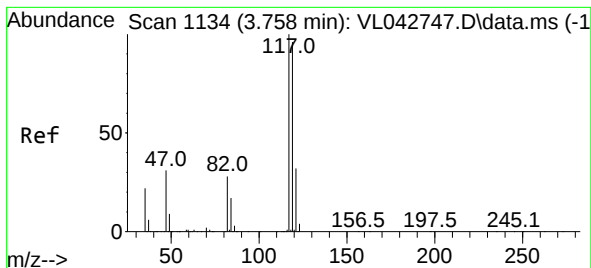
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:114 Resp: 438604
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.8 14.0 21.0





#35

Carbon Tetrachloride

Concen: 0.093 ppbv m

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042754.D

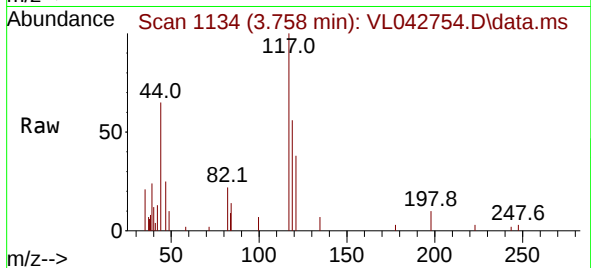
Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.1



Tgt Ion:	117	Resp:	303
Ion	Ratio	Lower	Upper
117	100		
119	56.3	77.1	115.7
121	38.3	25.5	38.3

Manual Integrations

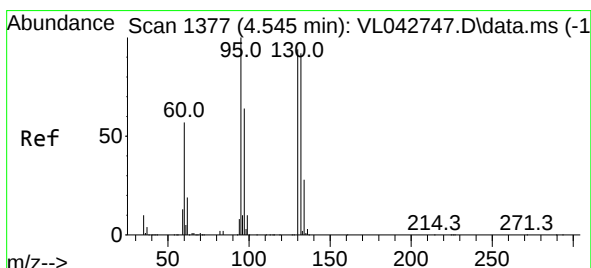
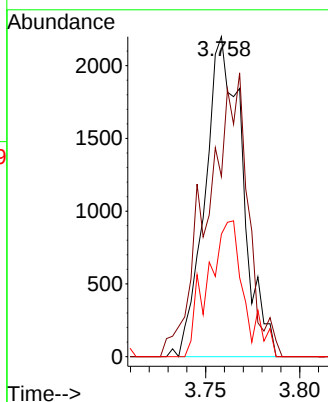
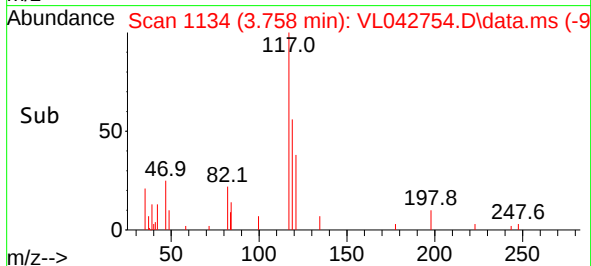
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Reviewed By :Semsettin Yesilyurt 07/24/2025

Supervised By :Mahesh

Dadoda

07/24/2025



#38

Trichloroethene

Concen: 0.110 ppbv m

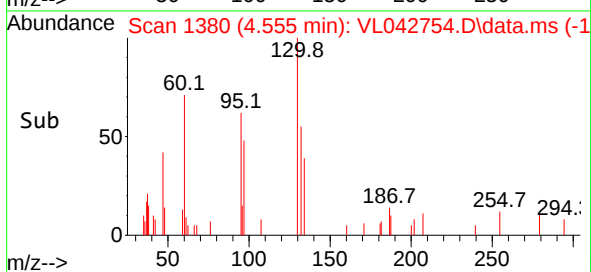
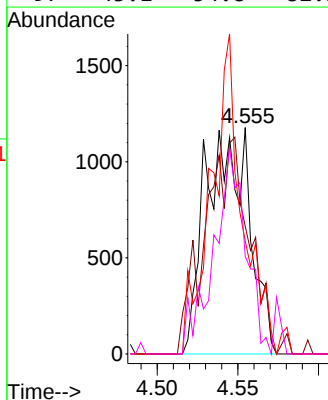
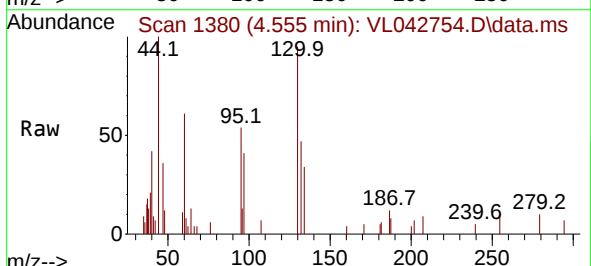
RT: 4.555 min Scan# 1380

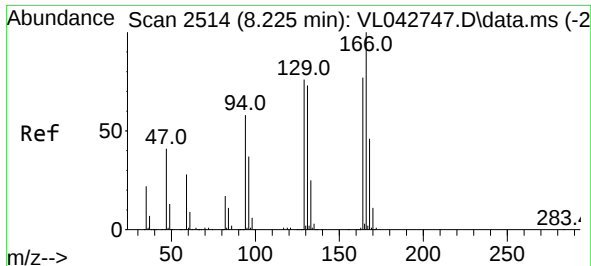
Delta R.T. 0.010 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

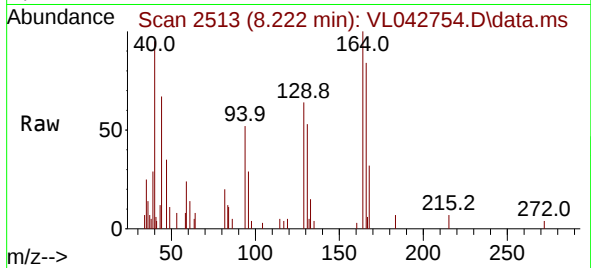
Tgt Ion:	130	Resp:	2207
Ion	Ratio	Lower	Upper
130	100		
95	56.4	85.4	128.2#
132	49.9	78.2	117.2#
97	43.1	54.8	82.2#





#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 8.222 min Scan# 2185
Delta R.T. -0.003 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

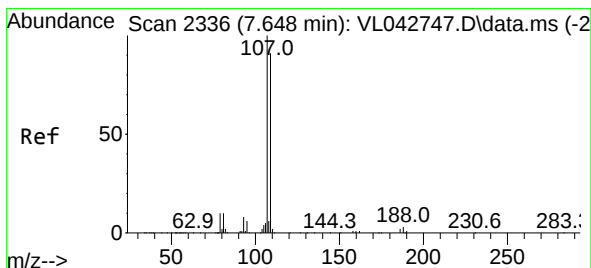
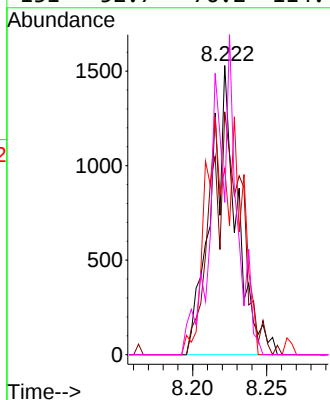
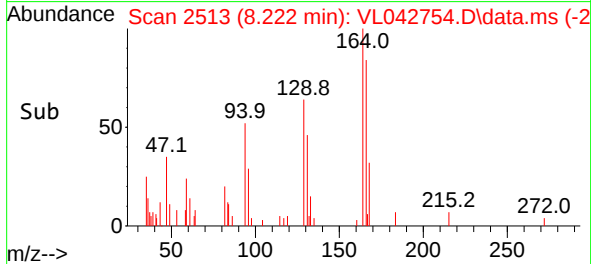
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion:164 Resp: 1852
Ion Ratio Lower Upper
164 100
166 84.0 104.0 156.0
129 64.3 79.2 118.8
131 52.7 76.2 114.4

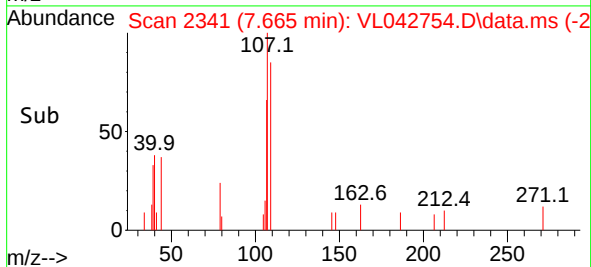
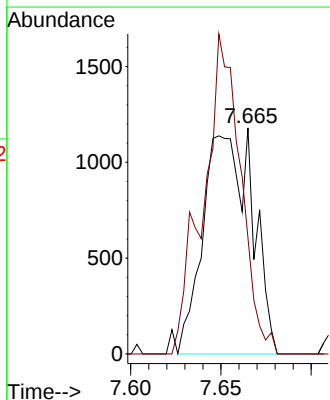
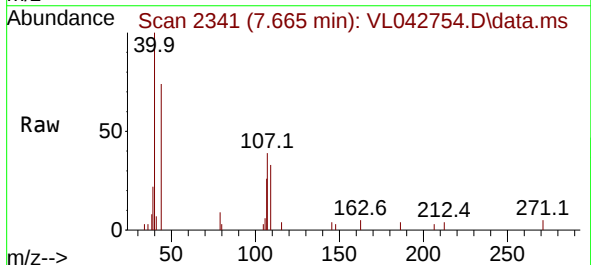
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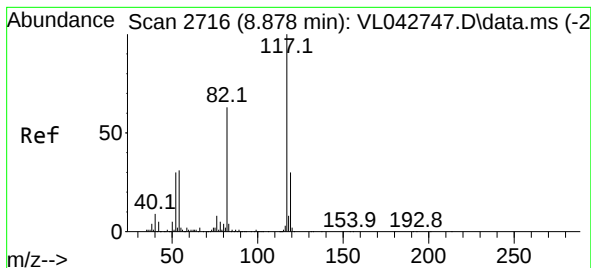
Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#54
1,2-Dibromoethane
Concen: 0.094 ppbv m
RT: 7.665 min Scan# 2341
Delta R.T. 0.016 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

Tgt Ion:107 Resp: 2184
Ion Ratio Lower Upper
107 100
109 85.2 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

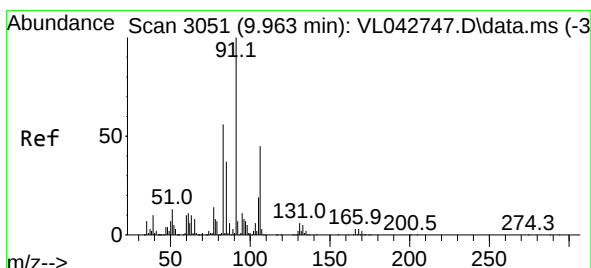
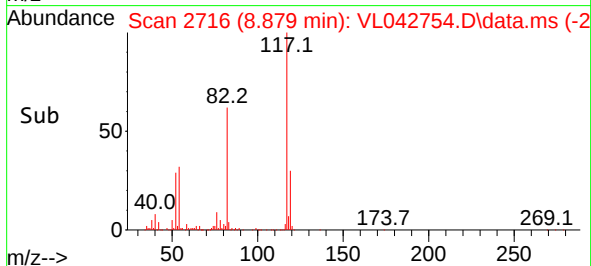
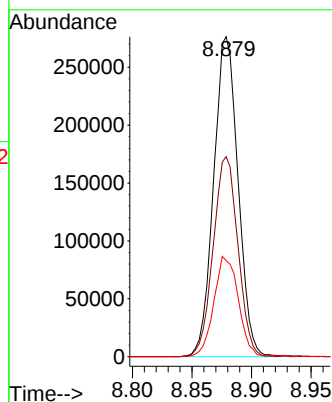
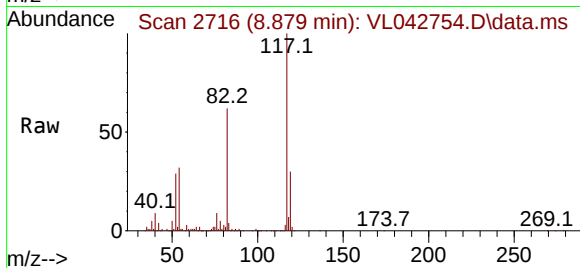
VSTDIC0.1

Tgt Ion:	117	Resp:	39304
Ion Ratio	Lower	Upper	
117	100		
82	63.6	53.3	79.9
119	31.7	25.8	38.6

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Supervised By :Mahesh Dadoda 07/24/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.095 ppbv m

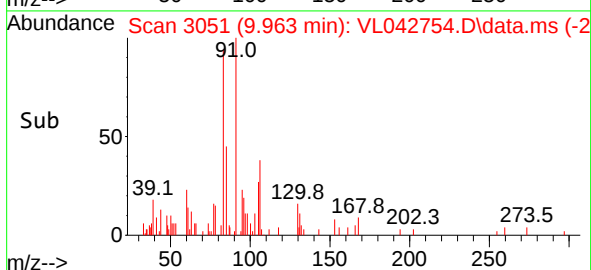
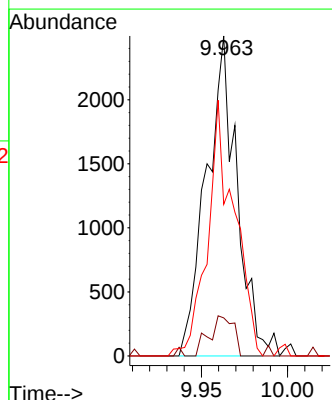
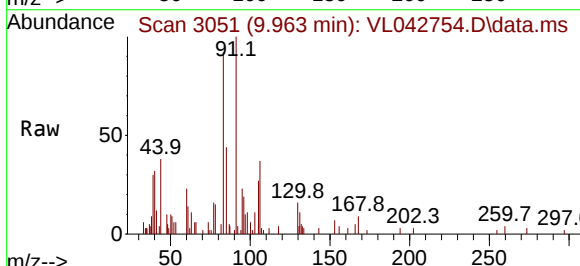
RT: 9.963 min Scan# 3051

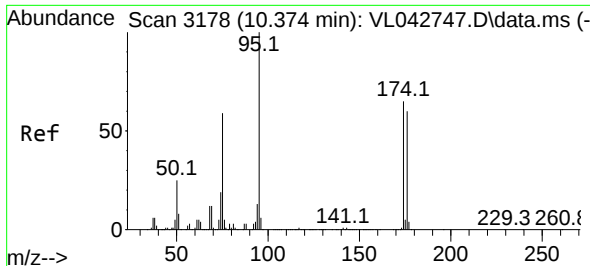
Delta R.T. 0.000 min

Lab File: VL042754.D

Acq: 23 Jul 2025 13:00

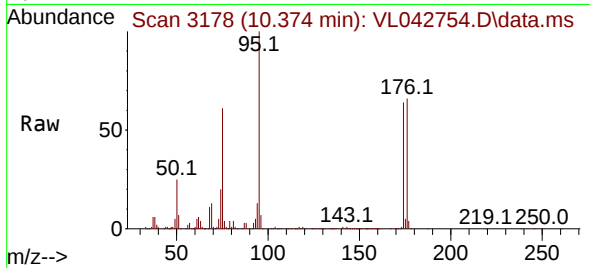
Tgt Ion:	83	Resp:	3084
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	15.0
85	70.7	32.6	97.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00

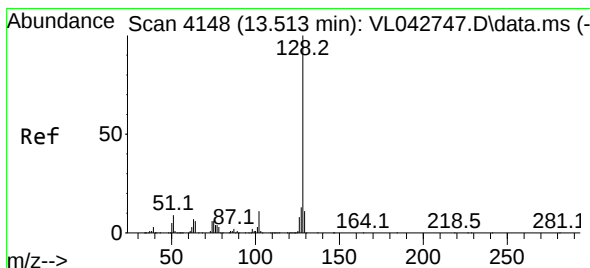
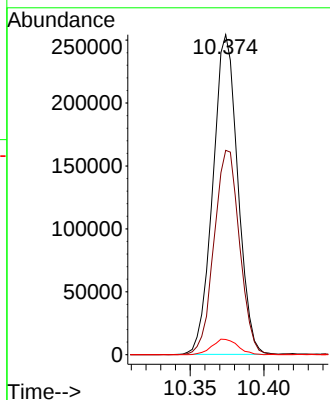
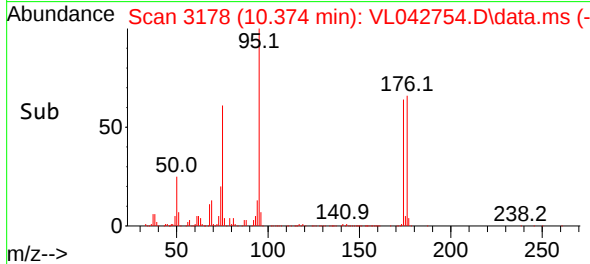
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



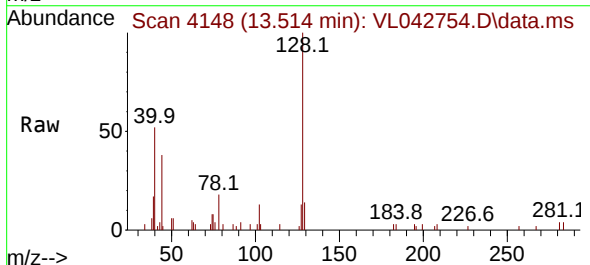
Tgt Ion: 95 Resp: 29828
Ion Ratio Lower Upper
95 100
174 65.8 53.8 80.6
175 5.0 4.0 6.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#79
Naphthalene
Concen: 0.475 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042754.D
Acq: 23 Jul 2025 13:00



Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 13.7 8.6 13.0#

