

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043068.D
 Acq On : 08 Oct 2025 21:03
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Oct 09 01:23:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

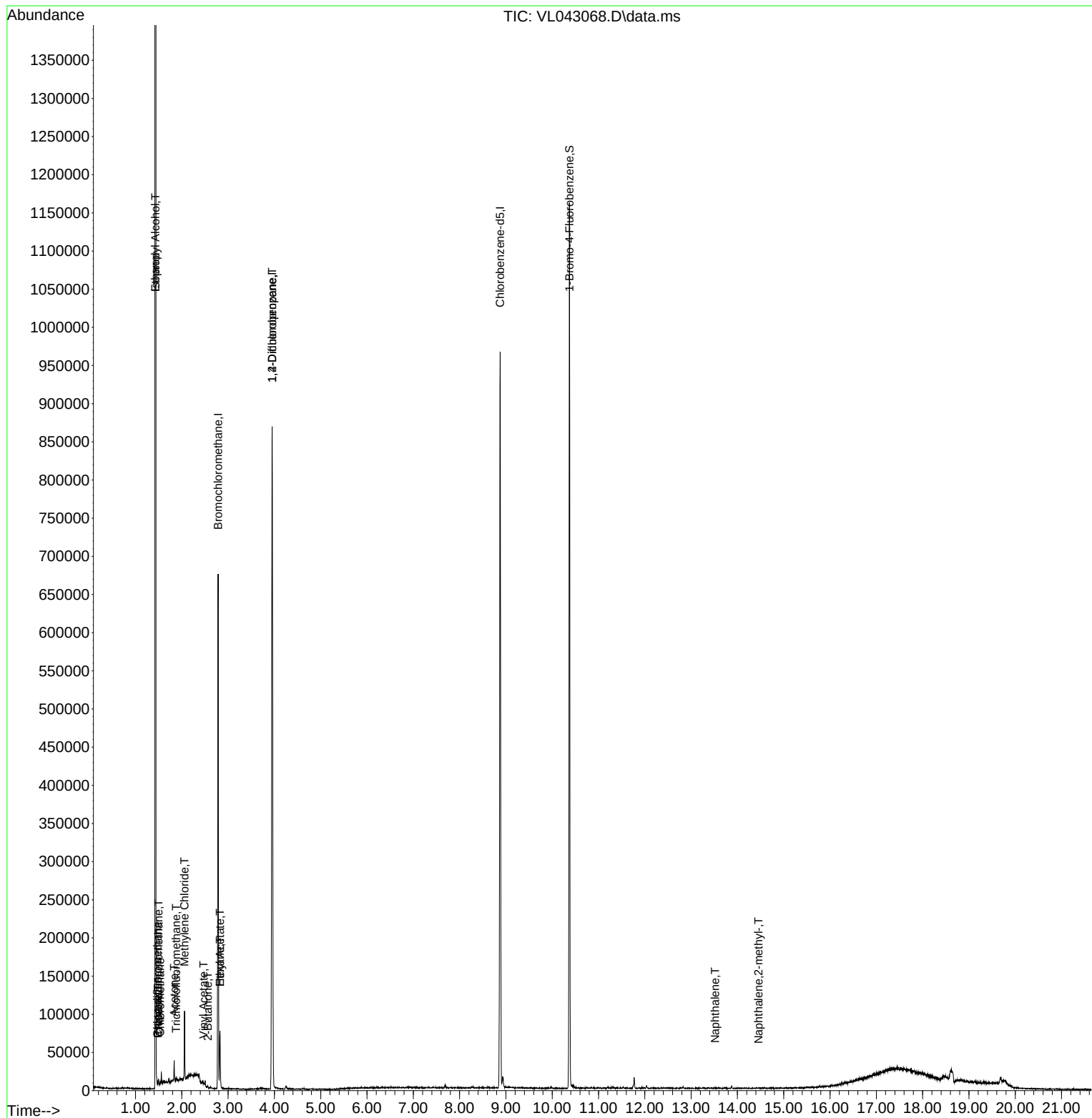
Internal Standards						
1) Bromochloromethane	2.784	49	181596	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	501458	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.875	117	384840	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	266056	9.597	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2027	0.066	ppbv	99
3) Chlorodifluoromethane	1.473	51	2561	0.086	ppbv #	71
4) Chloromethane	1.531	50	718	0.064	ppbv #	67
9) Propene	1.489	41	430	0.036	ppbv #	1
11) Trichlorofluoromethane	1.878	101	970	0.031	ppbv #	72
13) Ethanol	1.431	45	314993	726.846	ppbv	87
15) Acetone	1.835	43	11341	0.446	ppbv	93
19) Isopropyl Alcohol	1.431	45	314993	25.856	ppbv #	25
20) Methylene Chloride	2.059	84	13454	1.212	ppbv #	86
23) Vinyl Acetate	2.473	43	357	0.066	ppbv #	1
25) Ethyl Acetate	2.823	43	15111	0.237	ppbv #	86
26) Hexane	2.823	57	14225	0.580	ppbv #	45
34) 2-Butanone	2.561	43	1758	0.052	ppbv	99
39) 1,2-Dichloropropane	3.952	63	121848	6.861	ppbv #	22
79) Naphthalene	13.517	128	80	0.236	ppbv #	1
80) Naphthalene,2-methyl-	14.455	142	177	0.669	ppbv #	80

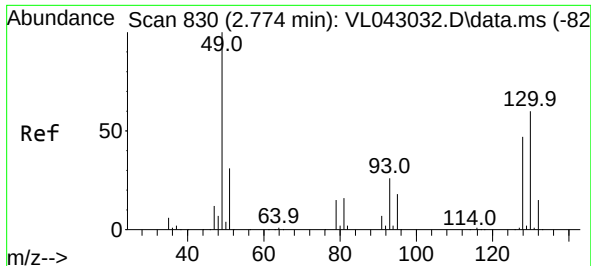
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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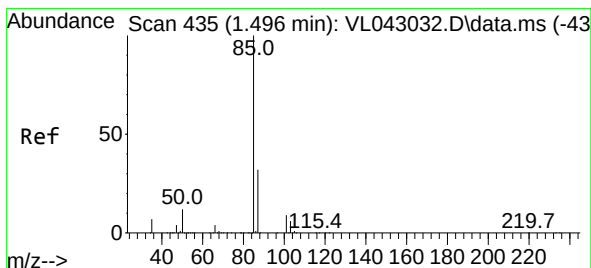
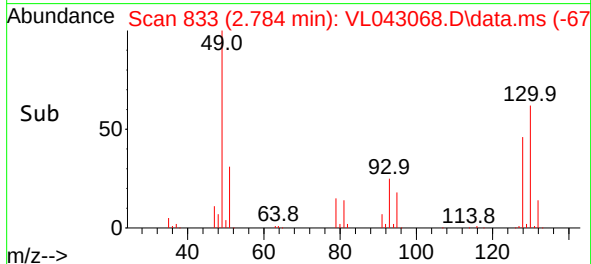
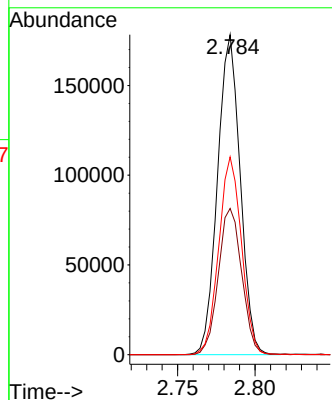
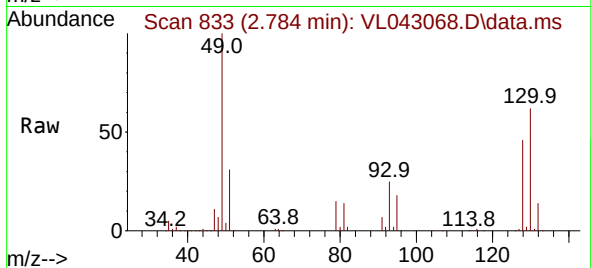




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

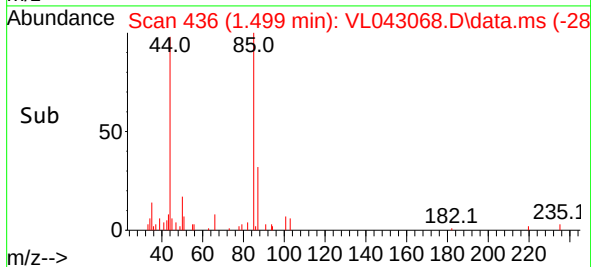
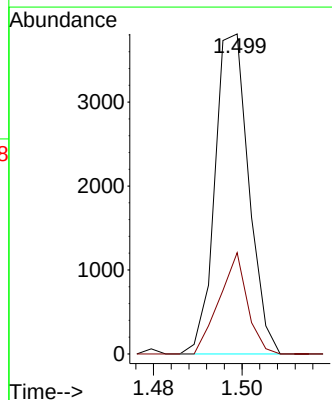
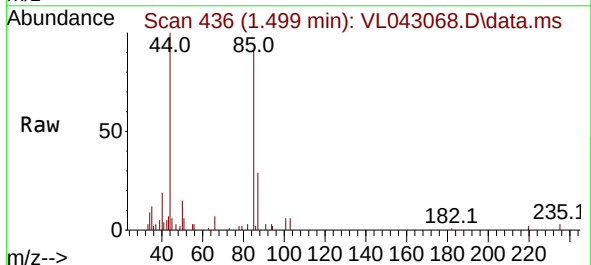
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

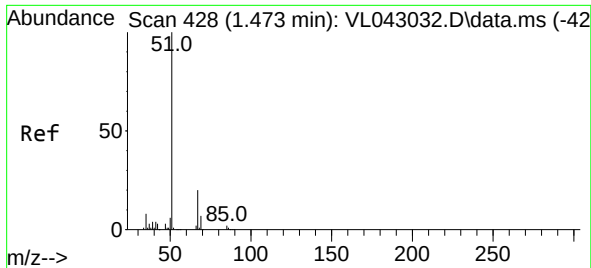
Tgt Ion: 49 Resp: 181596
Ion Ratio Lower Upper
49 100
128 47.2 24.1 72.2
130 62.1 31.4 94.3



#2
Dichlorodifluoromethane
Concen: 0.066 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion: 85 Resp: 2027
Ion Ratio Lower Upper
85 100
87 31.6 25.8 38.6

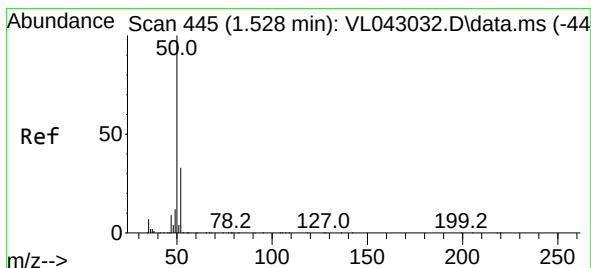
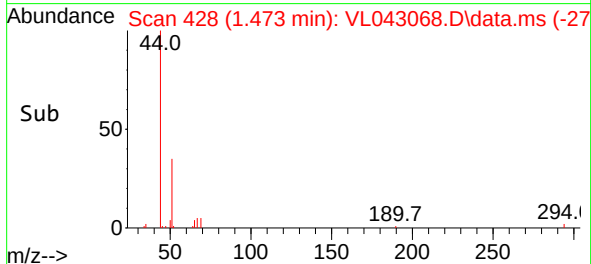
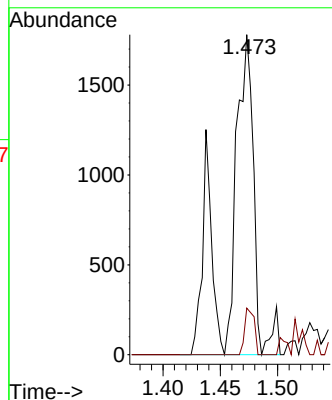
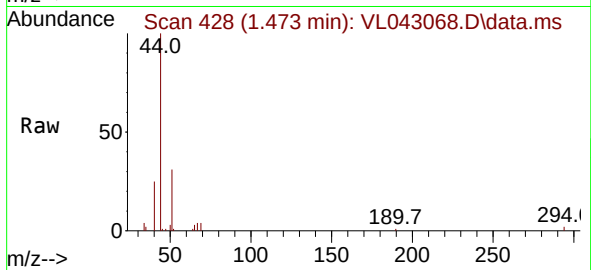




#3
Chlorodifluoromethane
Concen: 0.086 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

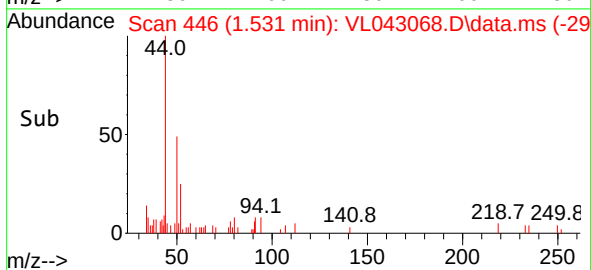
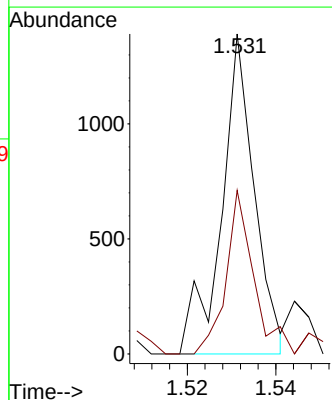
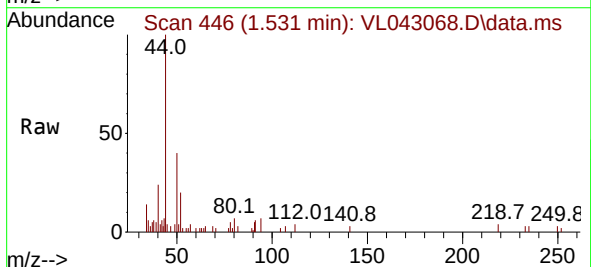
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

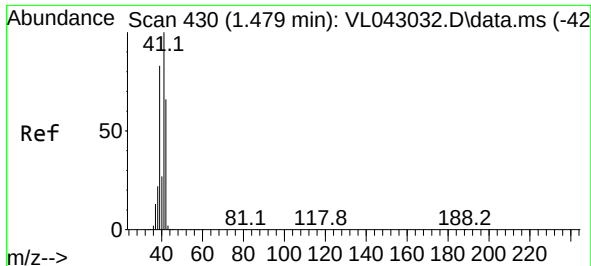
Tgt Ion: 51 Resp: 2561
Ion Ratio Lower Upper
51 100
67 5.9 15.1 22.7#



#4
Chloromethane
Concen: 0.064 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion: 50 Resp: 718
Ion Ratio Lower Upper
50 100
52 51.1 26.2 39.2#





#9

Propene

Concen: 0.036 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL043068.D

Acq: 08 Oct 2025 21:03

Instrument :

MSVOA_L

ClientSampleId :

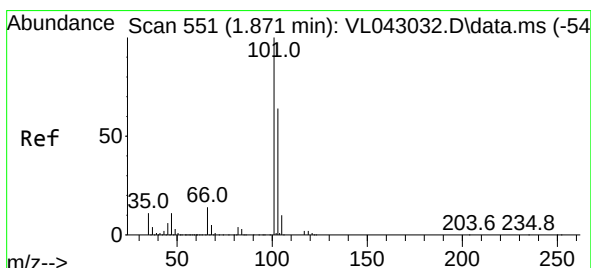
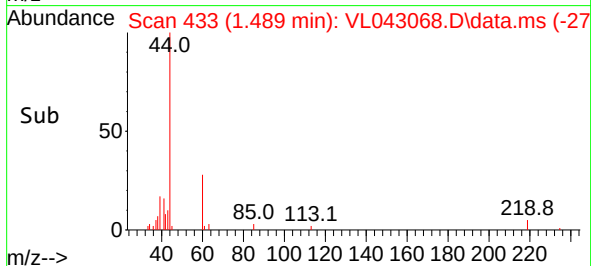
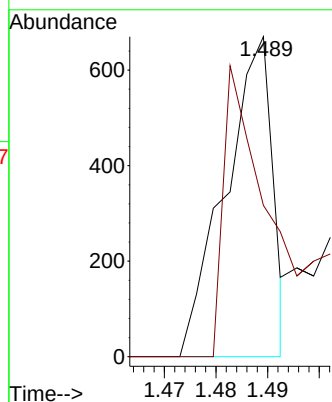
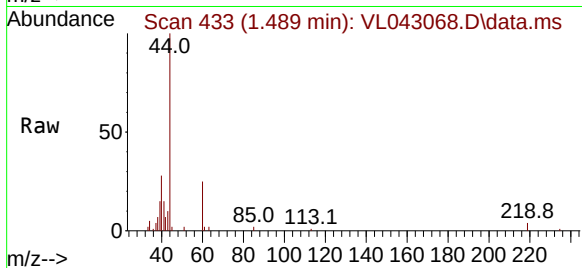
VIBLK

Tgt Ion: 41 Resp: 430

Ion Ratio Lower Upper

41 100

42 159.8 53.3 79.9#



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.007 min

Lab File: VL043068.D

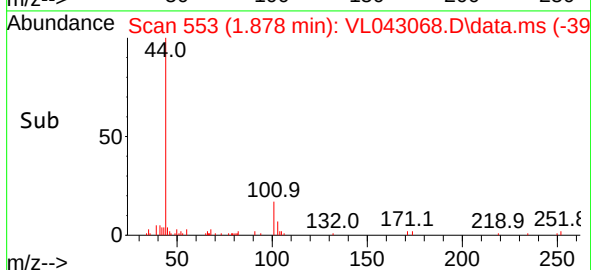
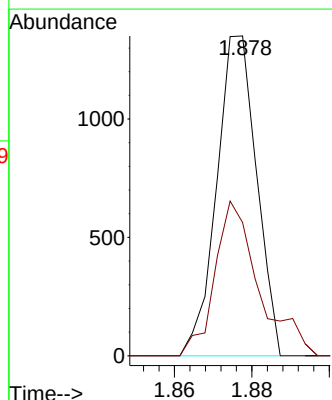
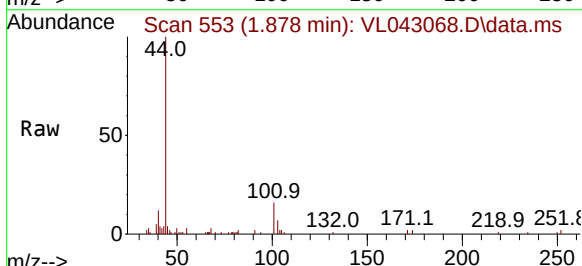
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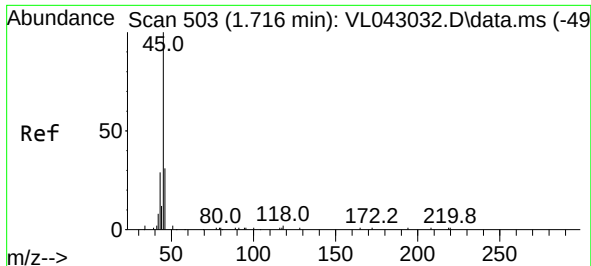
Tgt Ion: 101 Resp: 970

Ion Ratio Lower Upper

101 100

103 41.7 51.1 76.7#

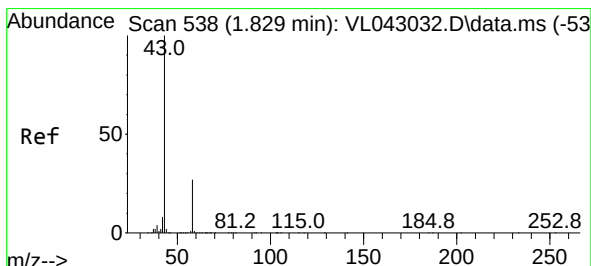
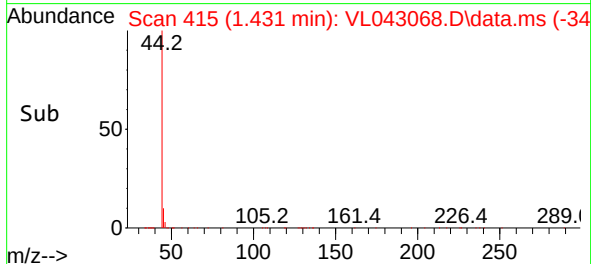
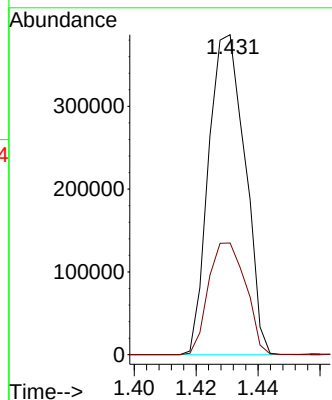
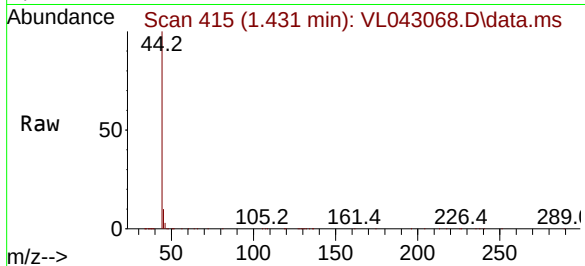




#13
Ethanol
Concen: 726.846 ppbv
RT: 1.431 min Scan# 41
Delta R.T. -0.285 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

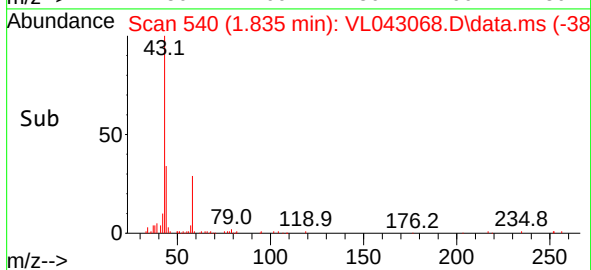
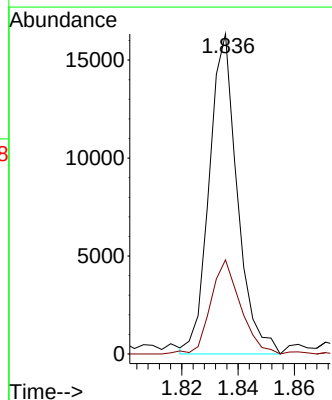
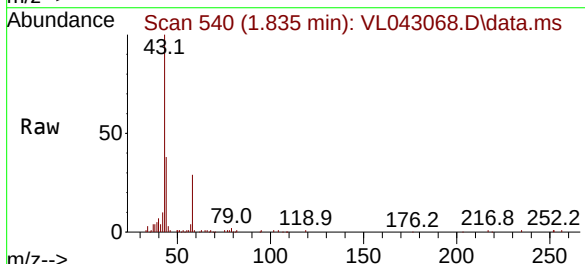
Instrument :
MSVOA_L
ClientSampleId :
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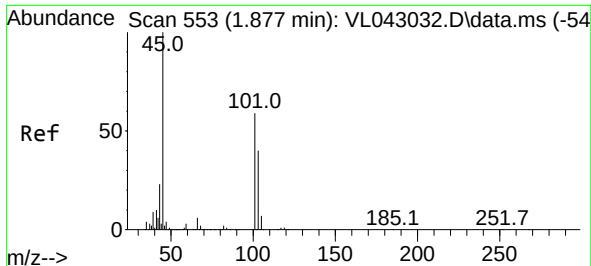
Tgt Ion: 45 Resp: 314993
Ion Ratio Lower Upper
45 100
46 35.9 17.8 71.4



#15
Acetone
Concen: 0.446 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion: 43 Resp: 11341
Ion Ratio Lower Upper
43 100
58 31.6 22.2 33.4





#19

Isopropyl Alcohol

Concen: 25.856 ppbv

RT: 1.431 min Scan# 415

Delta R.T. -0.447 min

Lab File: VL043068.D

Acq: 08 Oct 2025 21:03

Instrument :

MSVOA_L

ClientSampleId :

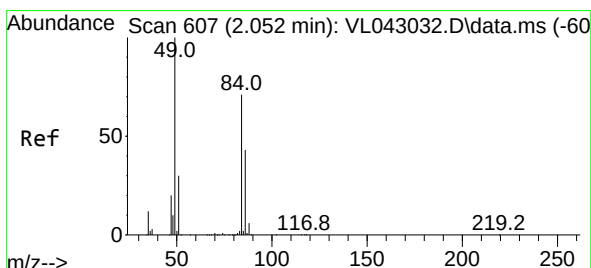
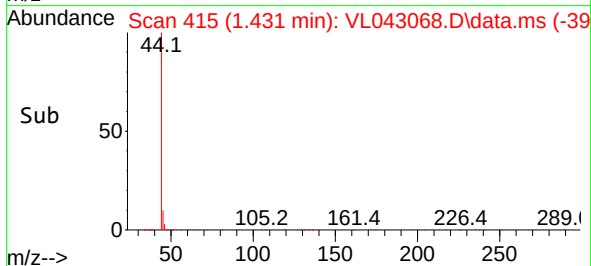
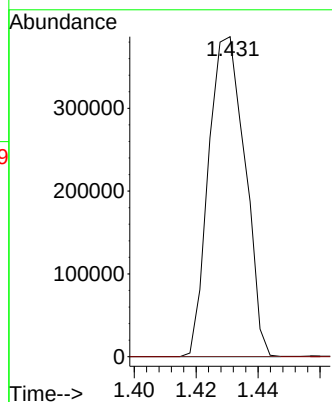
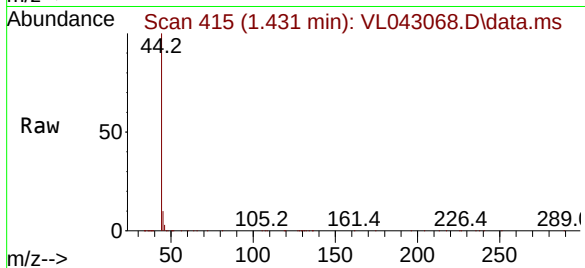
VIBLK

Tgt Ion: 45 Resp: 314993

Ion Ratio Lower Upper

45 100

58 0.0 42.3 63.5#



#20

Methylene Chloride

Concen: 1.212 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.007 min

Lab File: VL043068.D

Acq: 08 Oct 2025 21:03

Tgt Ion: 84 Resp: 13454

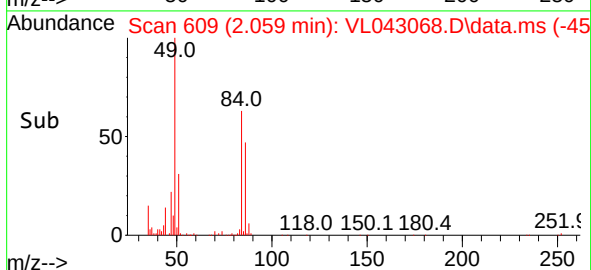
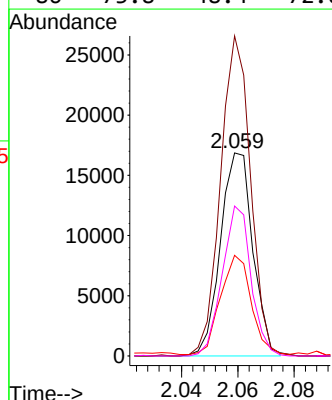
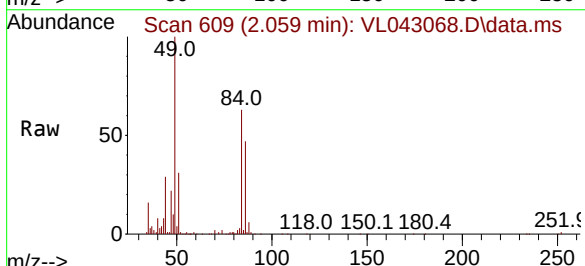
Ion Ratio Lower Upper

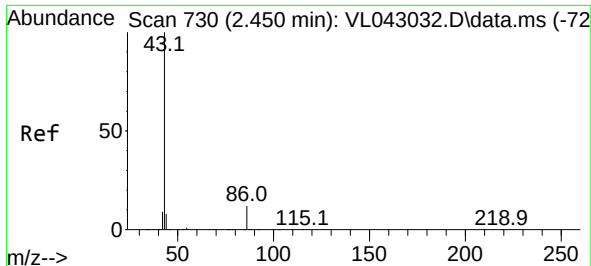
84 100

49 157.6 112.5 168.7

51 48.9 34.2 51.2

86 73.8 48.4 72.6#

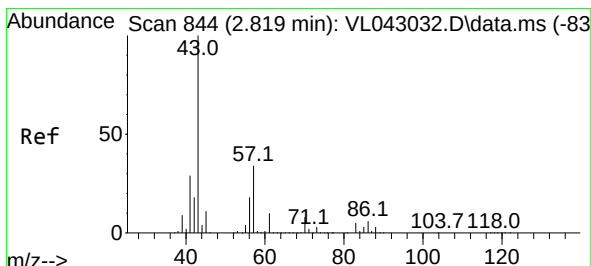
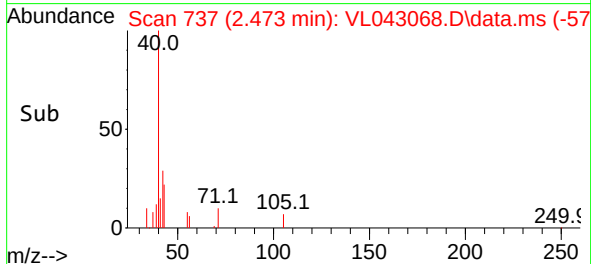
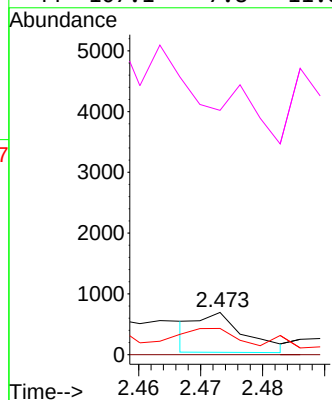
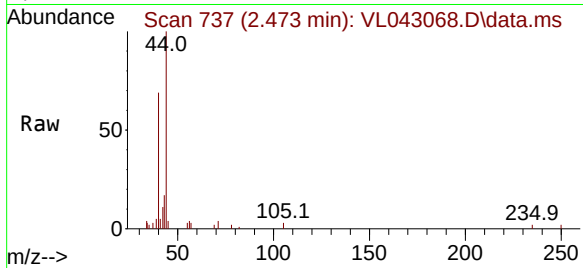




#23
 Vinyl Acetate
 Concen: 0.066 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.023 min
 Lab File: VL043068.D
 Acq: 08 Oct 2025 21:03

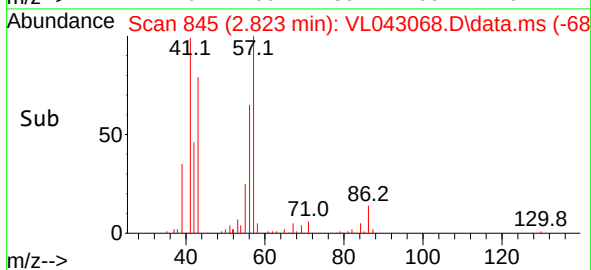
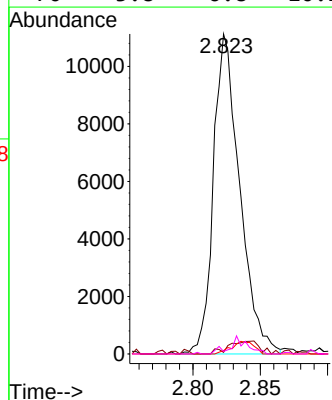
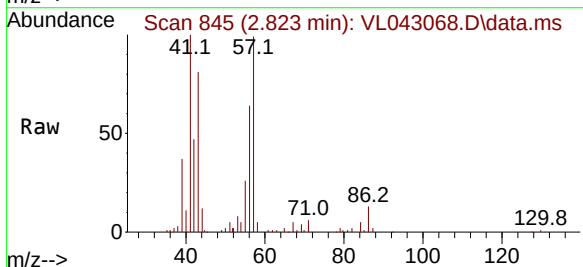
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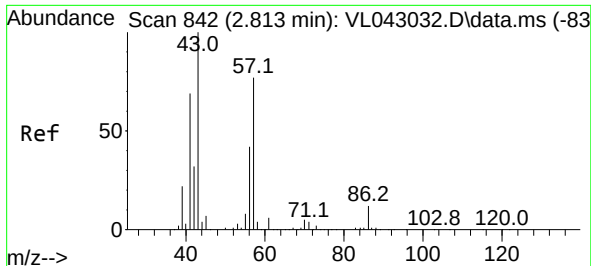
Tgt Ion:	43	Resp:	357
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#
42	22.8	8.4	12.6#
44	107.1	7.8	11.8#



#25
 Ethyl Acetate
 Concen: 0.237 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. 0.003 min
 Lab File: VL043068.D
 Acq: 08 Oct 2025 21:03

Tgt Ion:	43	Resp:	15111
Ion	Ratio	Lower	Upper
43	100		
45	5.5	8.3	12.5#
61	3.3	7.5	11.3#
70	3.8	6.8	10.2#

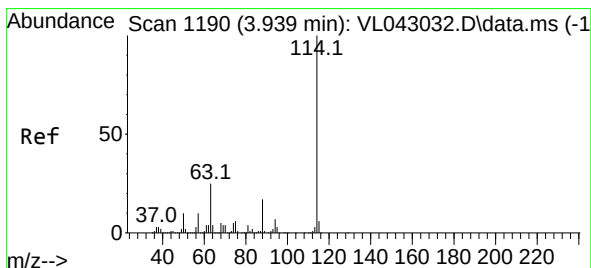
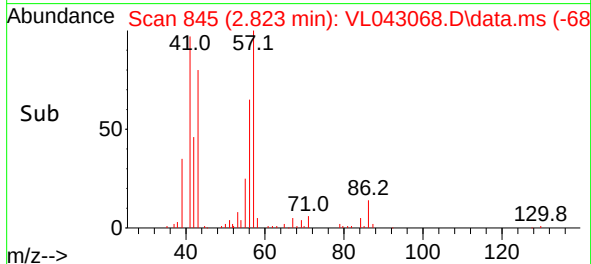
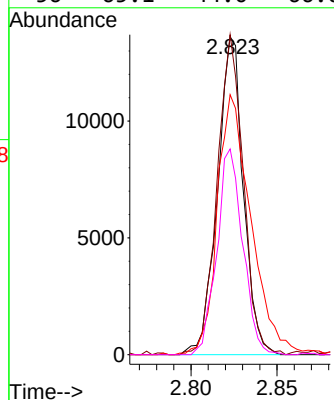
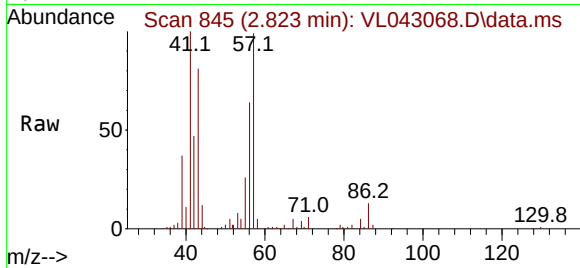




#26
Hexane
Concen: 0.580 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

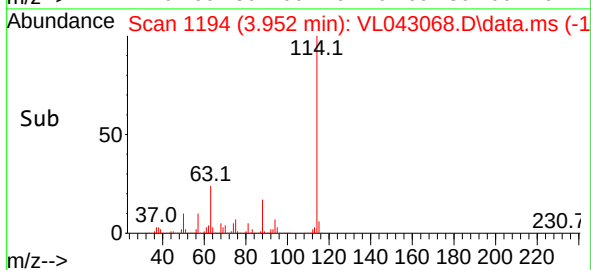
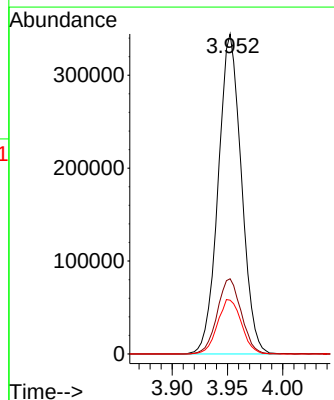
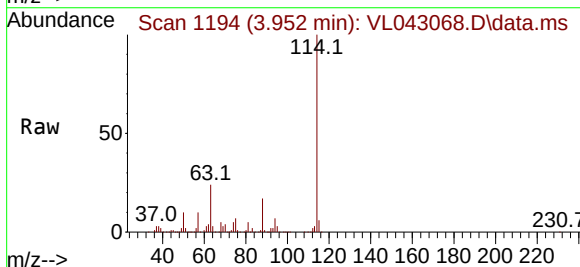
Instrument :
MSVOA_L
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VIBLK

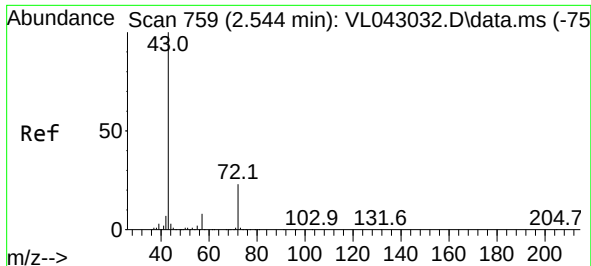
Tgt Ion: 57 Resp: 14225
Ion Ratio Lower Upper
57 100
41 102.9 76.1 114.1
43 108.8 201.4 302.0#
56 65.1 44.0 66.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.013 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion:114 Resp: 501458
Ion Ratio Lower Upper
114 100
63 24.4 19.4 29.2
88 17.6 13.9 20.9

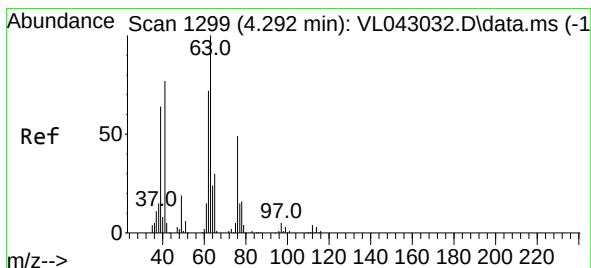
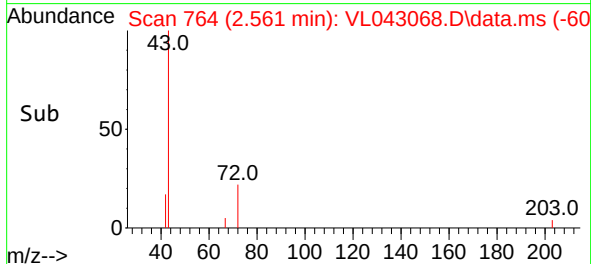
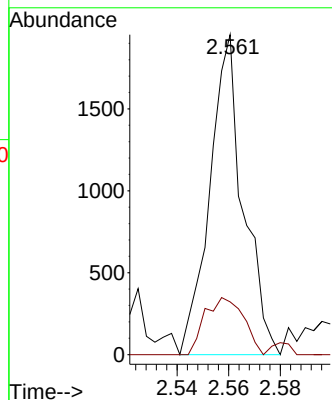
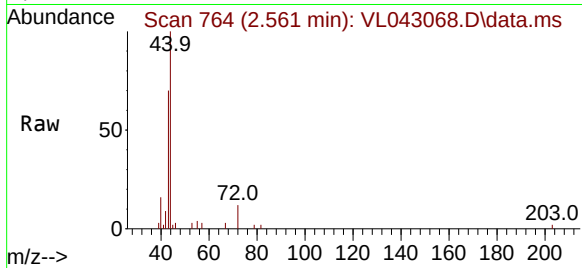




#34
2-Butanone
Concen: 0.052 ppbv
RT: 2.561 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

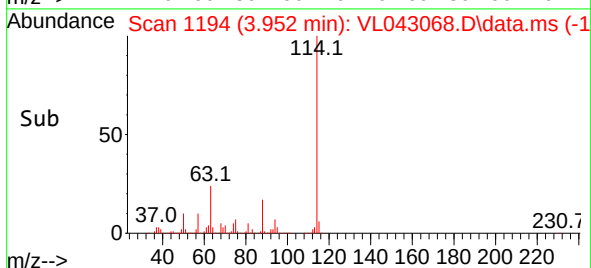
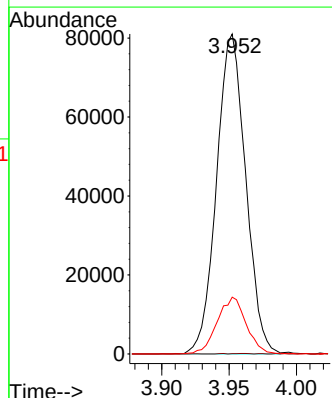
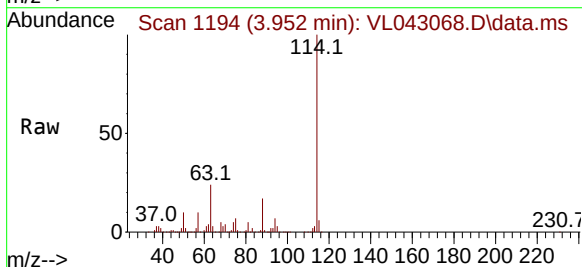
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

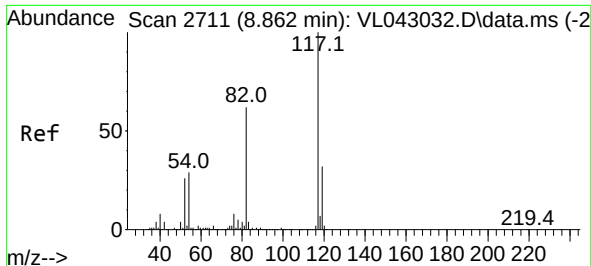
Tgt Ion: 43 Resp: 1758
Ion Ratio Lower Upper
43 100
72 22.8 18.4 27.6



#39
1,2-Dichloropropane
Concen: 6.861 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.340 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion: 63 Resp: 121848
Ion Ratio Lower Upper
63 100
41 0.1 61.6 92.4#
62 17.7 58.1 87.1#

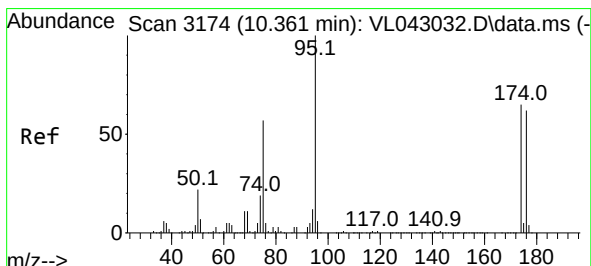
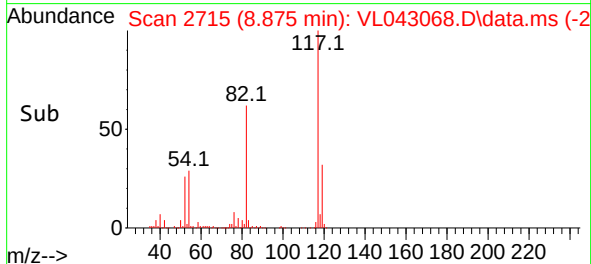
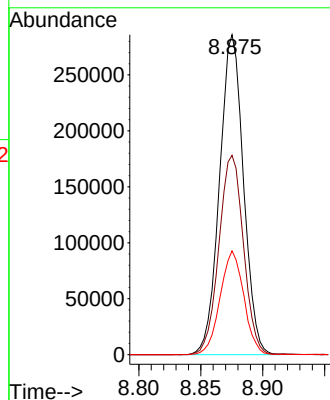
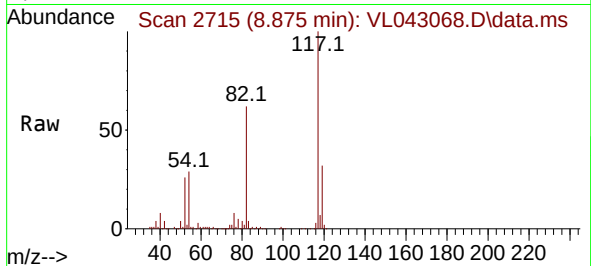




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

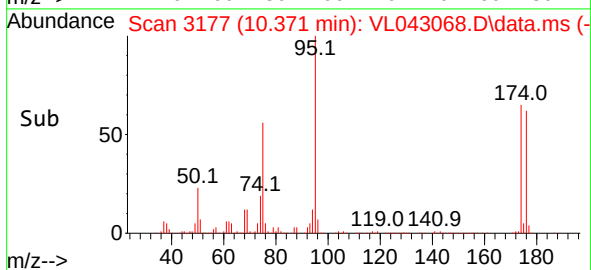
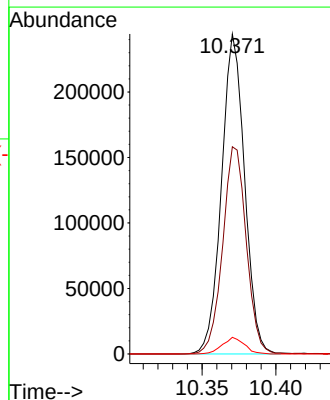
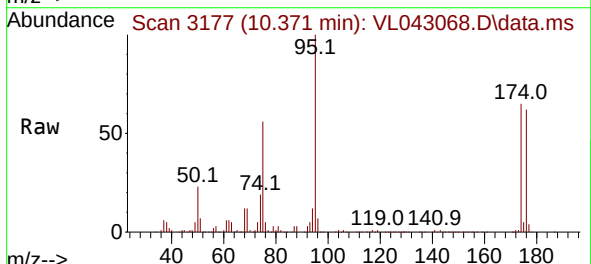
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

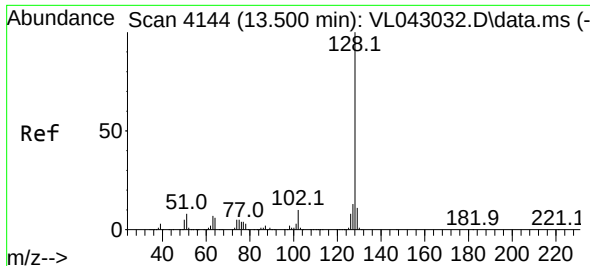
Tgt Ion:117 Resp: 384840
Ion Ratio Lower Upper
117 100
82 64.0 53.0 79.6
119 32.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.597 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion: 95 Resp: 266056
Ion Ratio Lower Upper
95 100
174 66.2 52.3 78.5
175 5.0 3.8 5.8

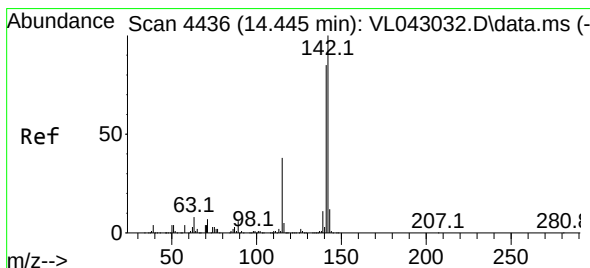
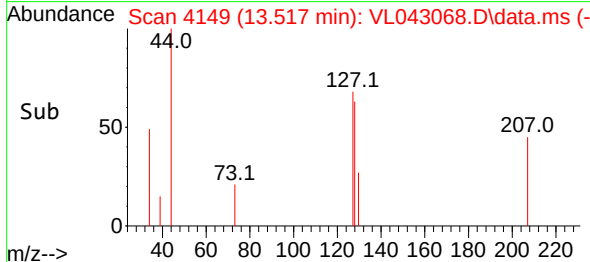
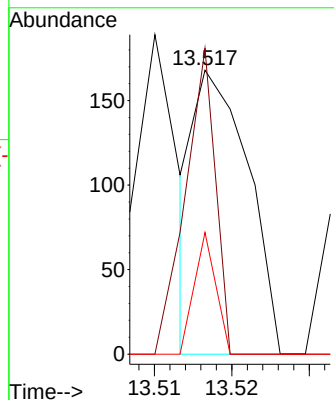
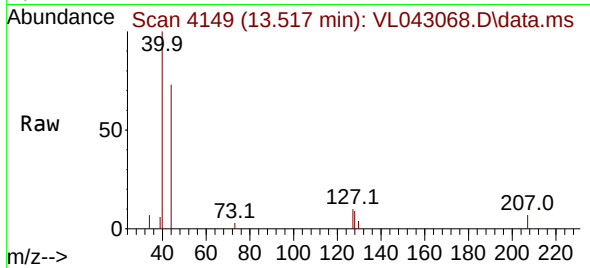




#79
Naphthalene
Concen: 0.236 ppbv
RT: 13.517 min Scan# 4144
Delta R.T. 0.017 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion:128 Resp: 80
Ion Ratio Lower Upper
128 100
127 107.7 10.6 16.0#
129 42.9 8.8 13.2#



#80
Naphthalene,2-methyl-
Concen: 0.669 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.010 min
Lab File: VL043068.D
Acq: 08 Oct 2025 21:03

Tgt Ion:142 Resp: 177
Ion Ratio Lower Upper
142 100
141 60.5 66.6 100.0#
115 42.4 30.1 45.1

