

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042229.D
 Acq On : 07 Apr 2025 10:23
 Operator : SY/MD
 Sample : VL0407ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0407ABL01

Quant Time: Apr 08 01:29:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

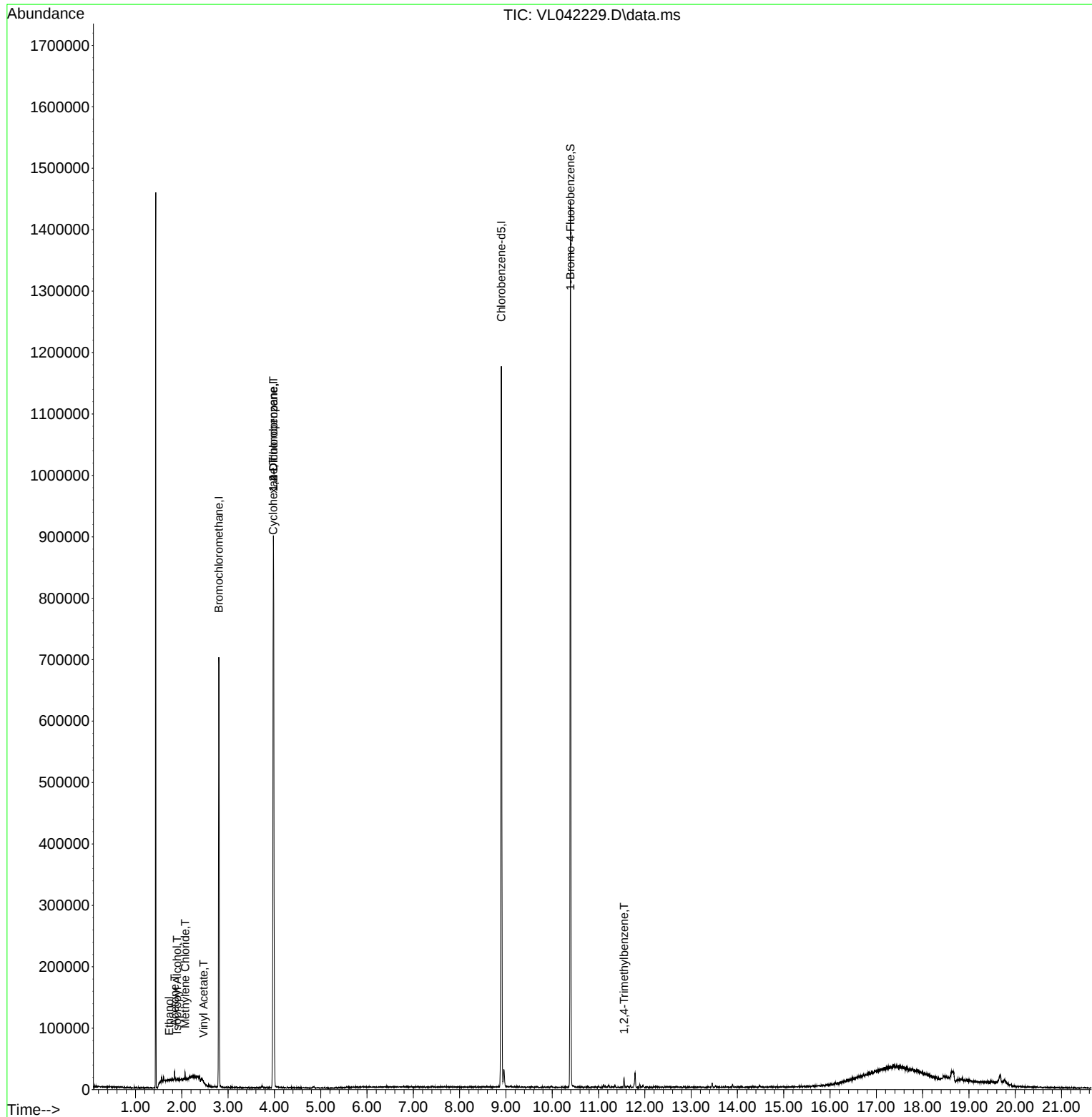
Internal Standards						
1) Bromochloromethane	2.800	49	195732	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	527491	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	463741	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	359295	9.435	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
13) Ethanol	1.729	45	430	0.336	ppbv #	1
15) Acetone	1.845	43	6869	0.251	ppbv	94
19) Isopropyl Alcohol	1.897	45	548	0.035	ppbv #	30
20) Methylene Chloride	2.072	84	1888	0.185	ppbv	93
23) Vinyl Acetate	2.473	43	509	0.043	ppbv #	78
30) Cyclohexane	3.975	84	1272	0.053	ppbv #	1
39) 1,2-Dichloropropane	3.978	63	136737	7.180	ppbv #	22
74) 1,2,4-Trimethylbenzene	11.549	105	5031	0.061	ppbv #	69

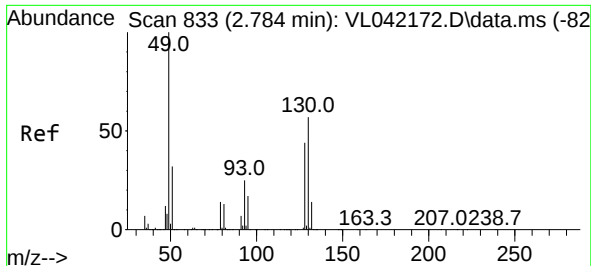
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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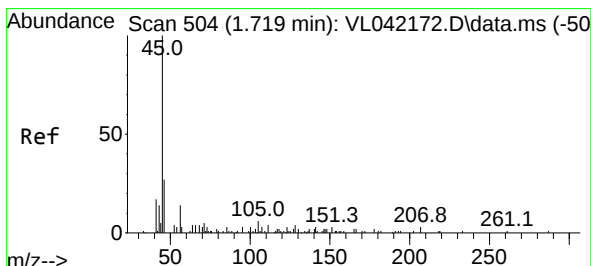
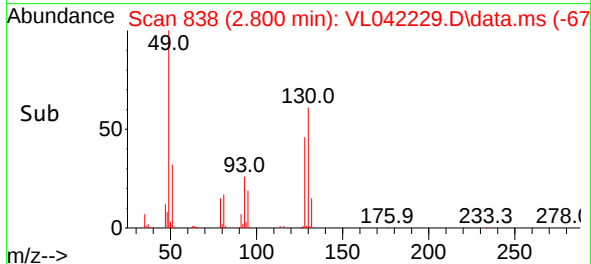
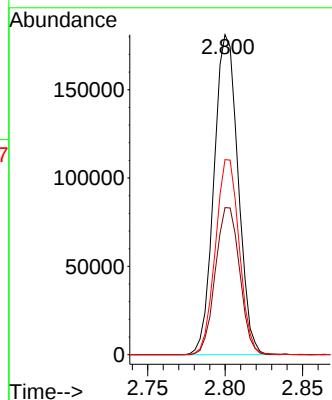
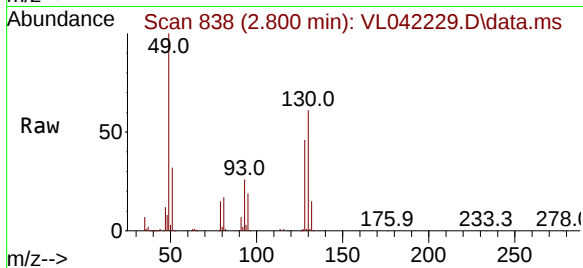




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

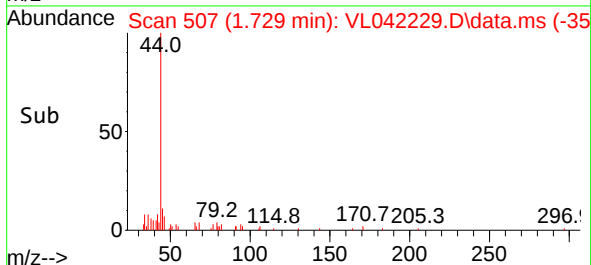
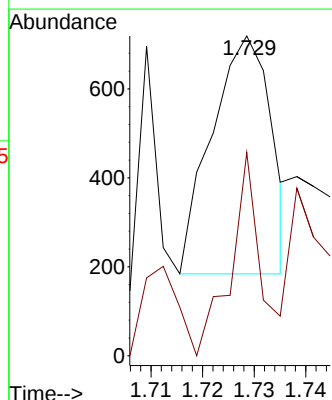
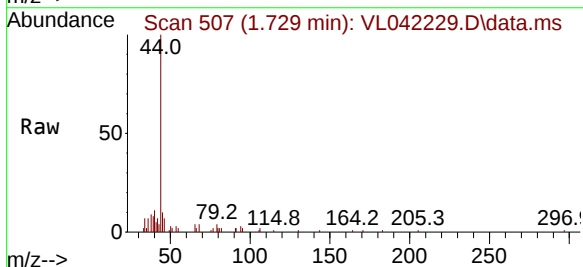
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

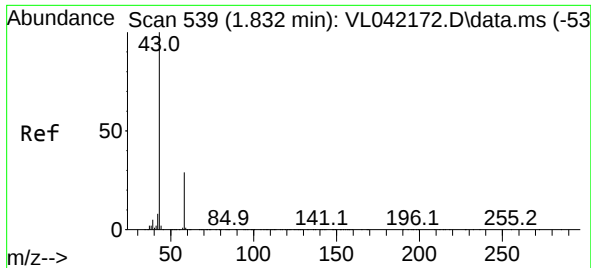
Tgt Ion: 49 Resp: 195732
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 60.3 28.8 86.4



#13
Ethanol
Concen: 0.336 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.009 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

Tgt Ion: 45 Resp: 430
Ion Ratio Lower Upper
45 100
46 121.9 20.2 80.8#





#15

Acetone

Concen: 0.251 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

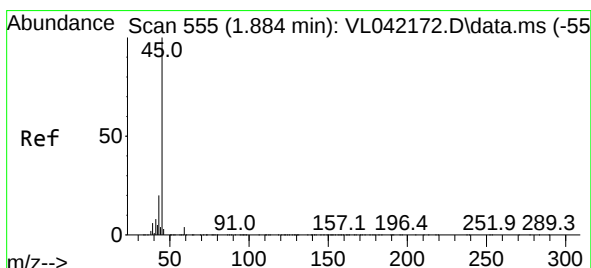
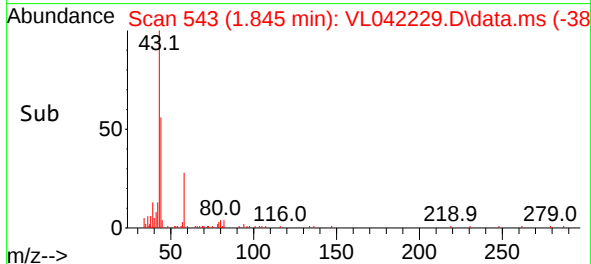
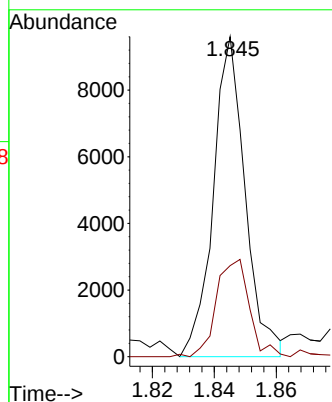
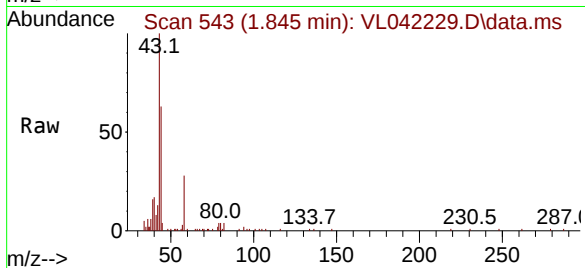
VL0407ABL01

Tgt Ion: 43 Resp: 6869

Ion Ratio Lower Upper

43 100

58 32.4 23.2 34.8



#19

Isopropyl Alcohol

Concen: 0.035 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042229.D

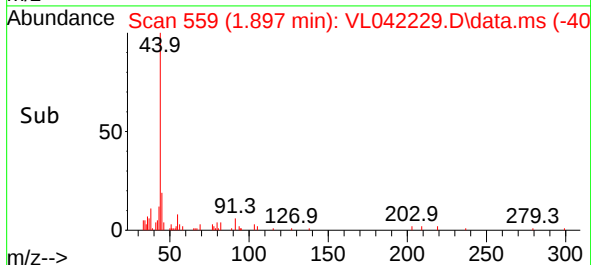
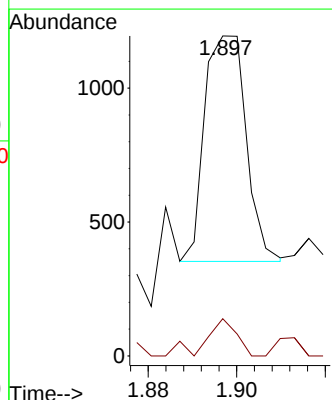
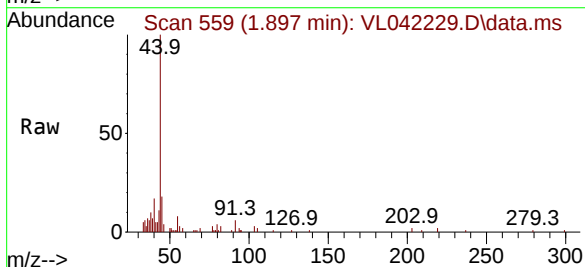
Acq: 07 Apr 2025 10:23

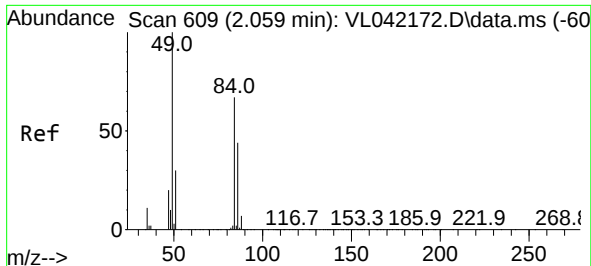
Tgt Ion: 45 Resp: 548

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#





#20

Methylene Chloride

Concen: 0.185 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABL01

Tgt Ion: 84 Resp: 1888

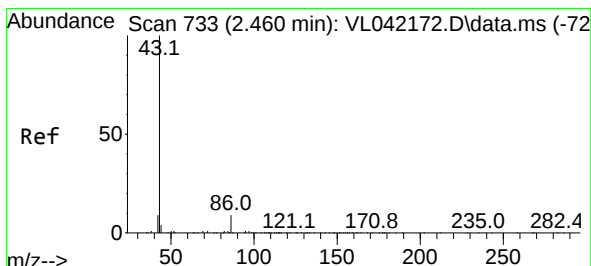
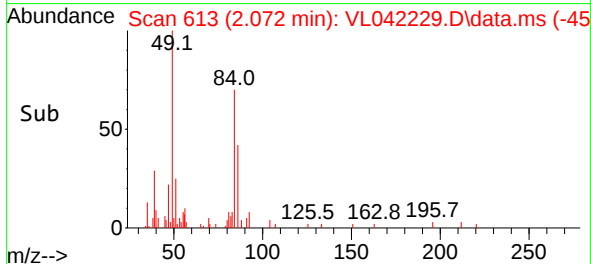
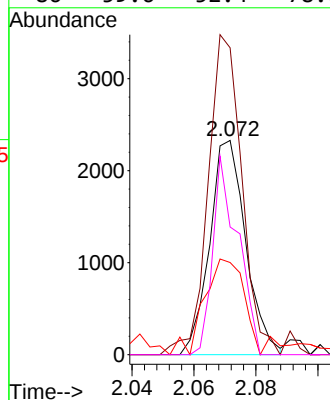
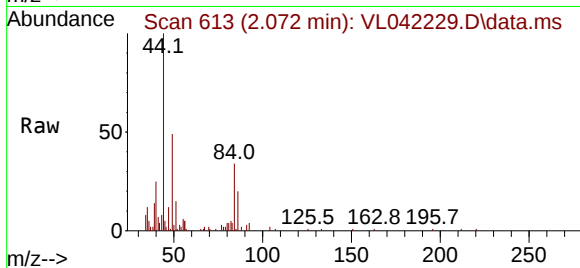
Ion Ratio Lower Upper

84 100

49 143.2 120.2 180.4

51 38.9 37.4 56.0

86 59.6 52.4 78.6



#23

Vinyl Acetate

Concen: 0.043 ppbv

RT: 2.473 min Scan# 737

Delta R.T. 0.013 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Tgt Ion: 43 Resp: 509

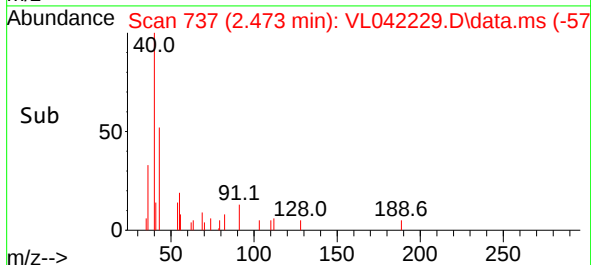
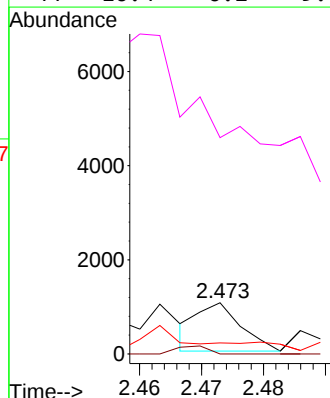
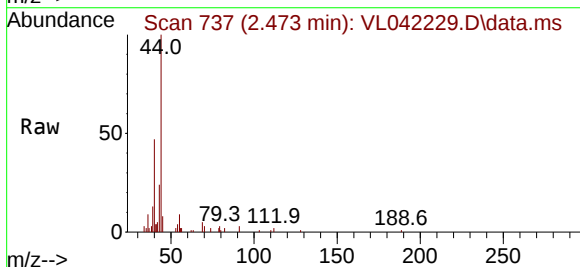
Ion Ratio Lower Upper

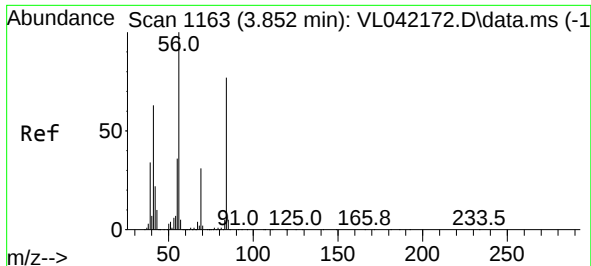
43 100

86 0.0 5.5 8.3#

42 2.7 8.6 13.0#

44 16.4 6.2 9.4#

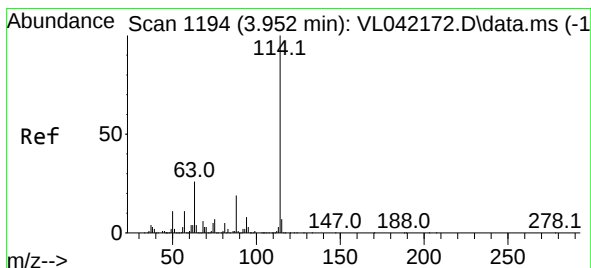
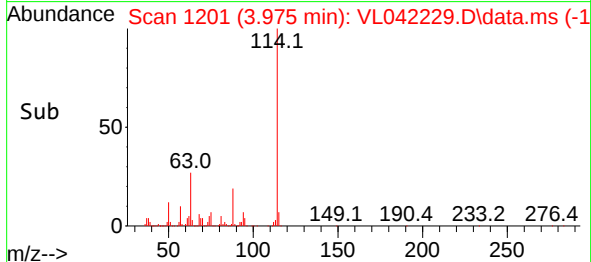
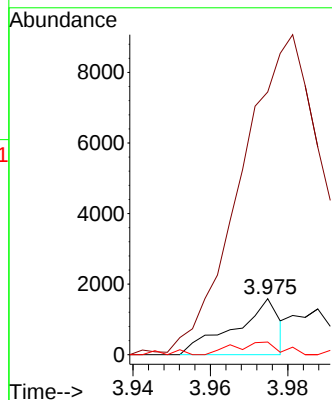
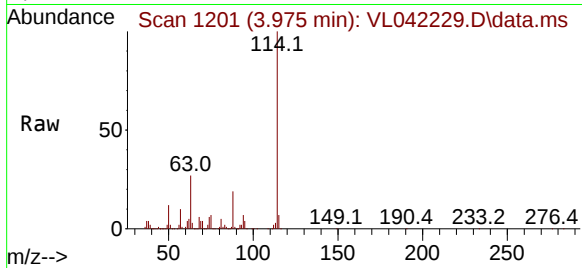




#30
Cyclohexane
Concen: 0.053 ppbv
RT: 3.975 min Scan# 1163
Delta R.T. 0.123 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

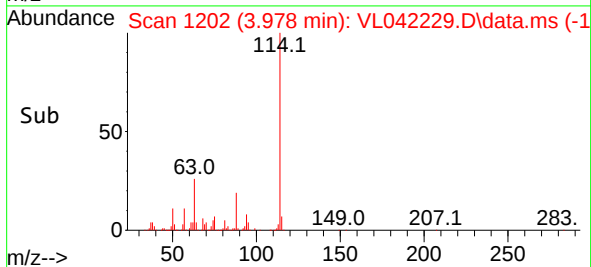
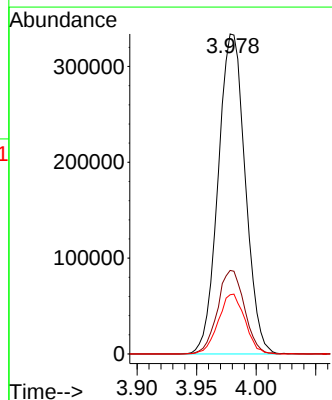
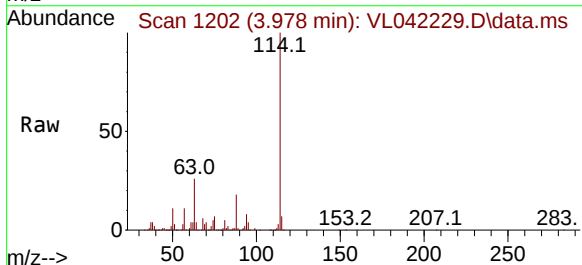
Instrument :
MSVOA_L
ClientSampleId :
VL0407ABL01

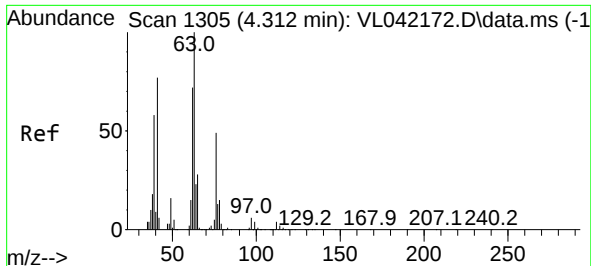
Tgt Ion: 84 Resp: 1272
Ion Ratio Lower Upper
84 100
56 1099.8 102.8 154.2#
41 32.0 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042229.D
Acq: 07 Apr 2025 10:23

Tgt Ion: 114 Resp: 527491
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 18.4 15.0 22.4





#39

1,2-Dichloropropane

Concen: 7.180 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.334 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABL01

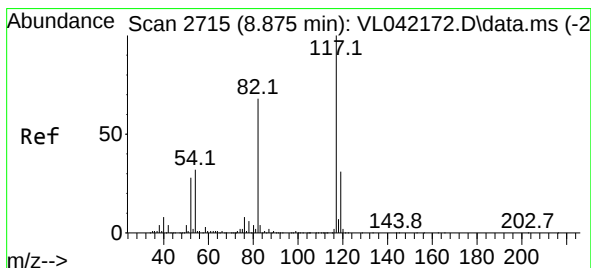
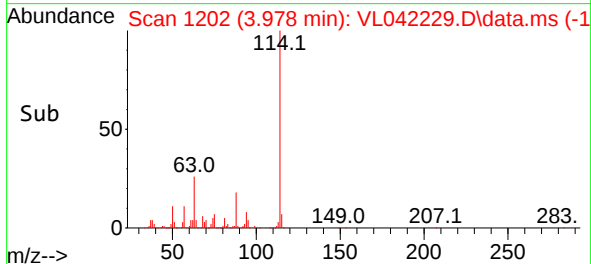
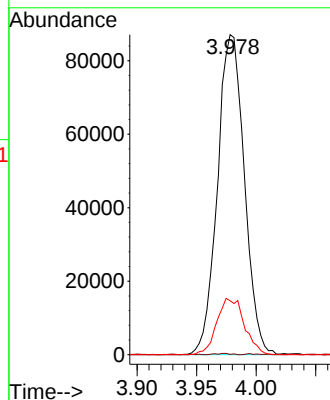
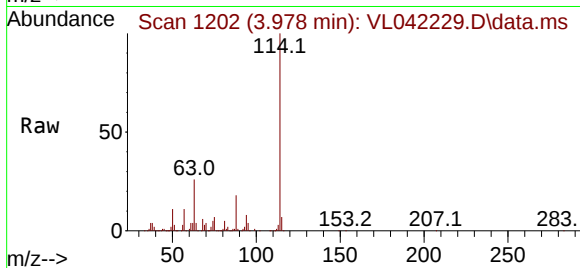
Tgt Ion: 63 Resp: 136737

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 16.9 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 2723

Delta R.T. 0.026 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

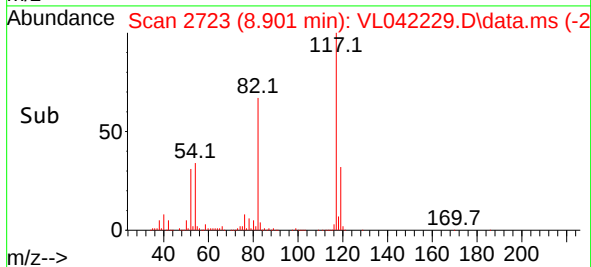
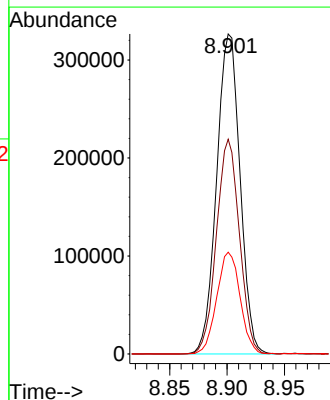
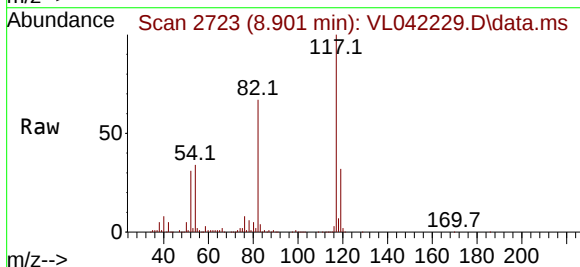
Tgt Ion: 117 Resp: 463741

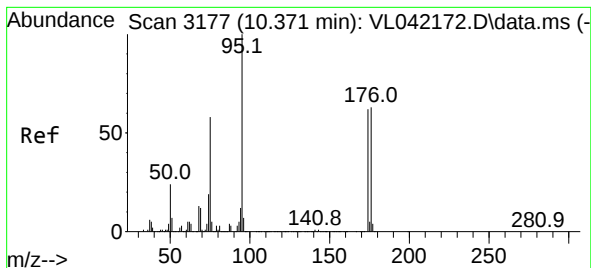
Ion Ratio Lower Upper

117 100

82 65.9 55.8 83.6

119 31.7 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.435 ppbv

RT: 10.393 min Scan# 3177

Delta R.T. 0.022 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VL0407ABL01

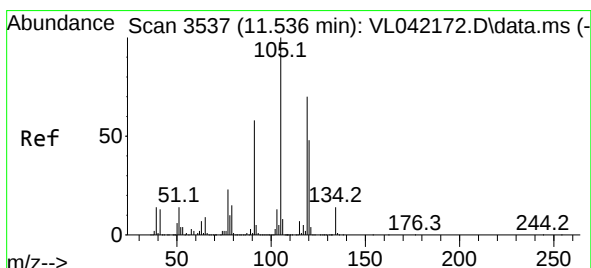
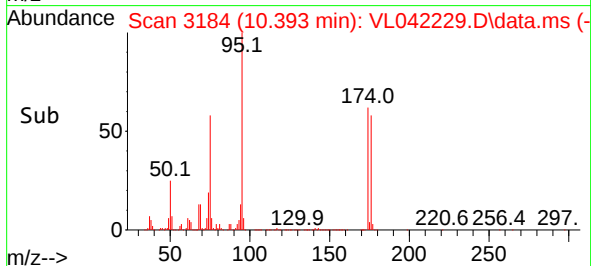
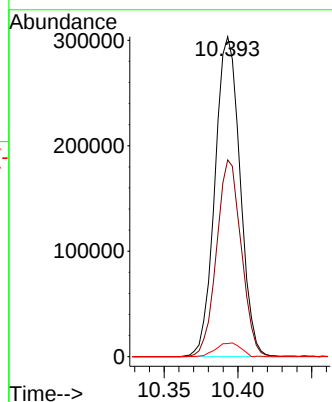
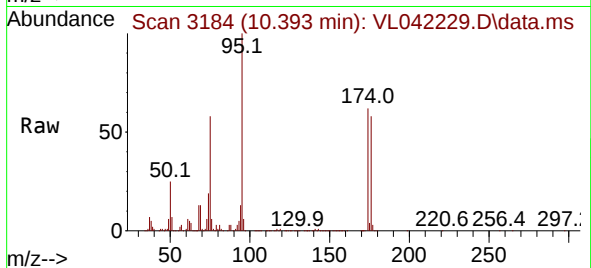
Tgt Ion: 95 Resp: 359295

Ion Ratio Lower Upper

95 100

174 60.7 50.6 76.0

175 4.3 3.8 5.6



#74

1,2,4-Trimethylbenzene

Concen: 0.061 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042229.D

Acq: 07 Apr 2025 10:23

Tgt Ion: 105 Resp: 5031

Ion Ratio Lower Upper

105 100

120 40.5 38.6 58.0

91 13.4 46.2 69.2#

77 22.6 18.6 27.8

