

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
 Data File : VL042202.D
 Acq On : 31 Mar 2025 09:34
 Operator : SY/MD
 Sample : VL0331ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0331ABL01

Quant Time: Apr 01 01:35:30 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)

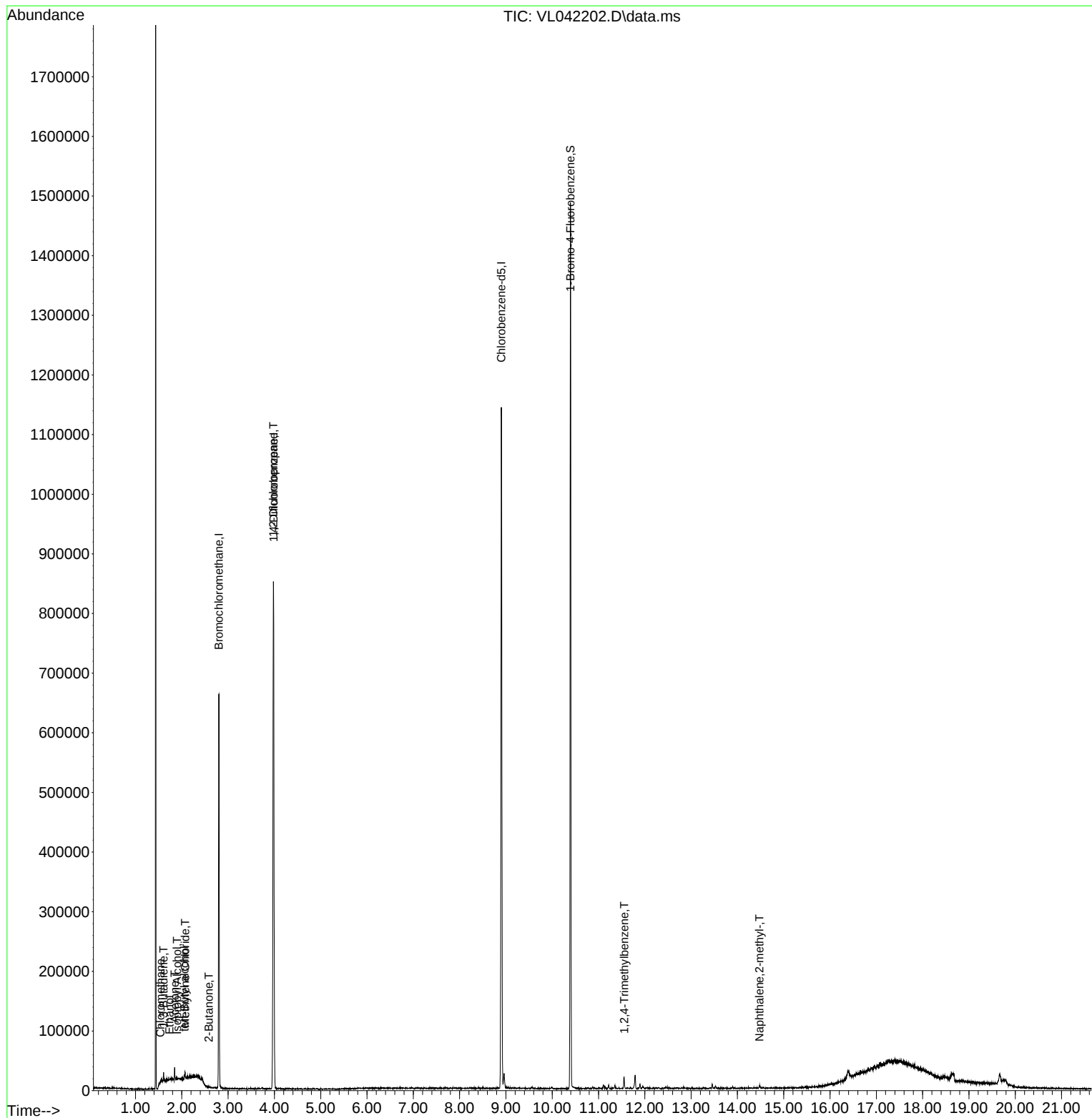
Internal Standards						
1) Bromochloromethane	2.800	49	181807	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	517775	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	464953	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	379890	9.949	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	386	0.035	ppbv #	73
13) Ethanol	1.735	45	526	0.443	ppbv #	45
15) Acetone	1.845	43	8703	0.342	ppbv	97
16) 1,3-Butadiene	1.606	39	2171	0.175	ppbv #	23
17) tert-Butyl alcohol	2.059	59	1973	0.062	ppbv #	1
19) Isopropyl Alcohol	1.897	45	753	0.052	ppbv #	49
20) Methylene Chloride	2.072	84	2079	0.220	ppbv #	79
34) 2-Butanone	2.580	43	1309	0.035	ppbv	96
39) 1,2-Dichloropropane	3.978	63	131441	7.031	ppbv #	23
74) 1,2,4-Trimethylbenzene	11.555	105	6660	0.080	ppbv #	61
80) Naphthalene,2-methyl-	14.474	142	1833	0.041	ppbv	88

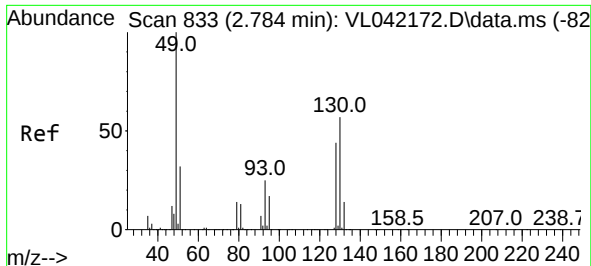
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 01 01:35:30 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

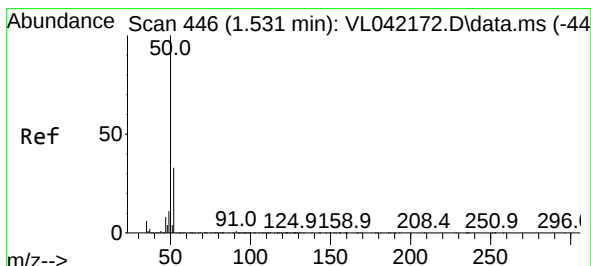
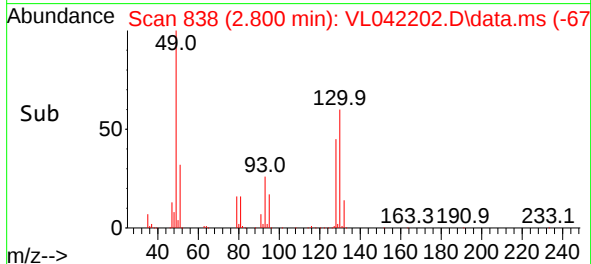
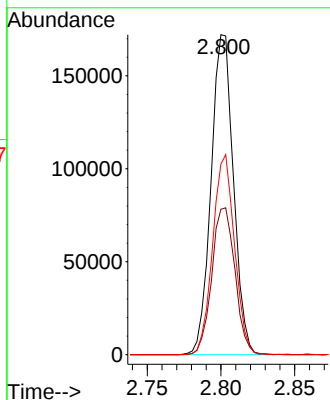
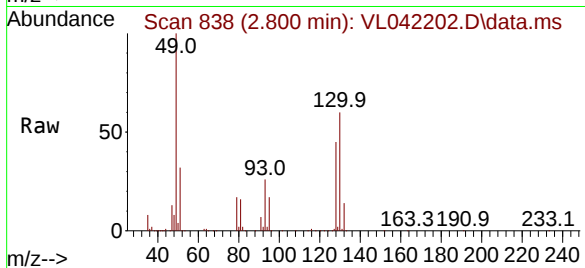




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

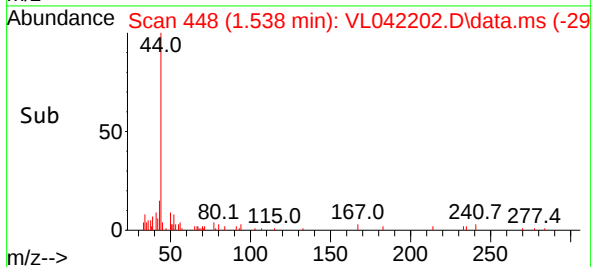
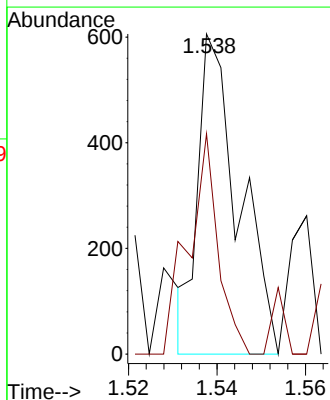
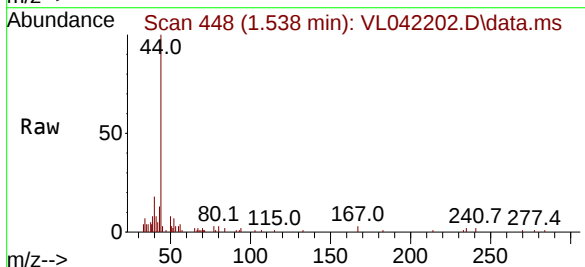
Instrument :
MSVOA_L
ClientSampleId :
VL0331ABL01

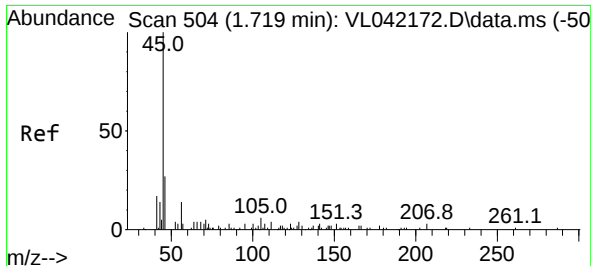
Tgt Ion: 49 Resp: 181807
Ion Ratio Lower Upper
49 100
128 47.5 22.9 68.5
130 61.0 28.8 86.4



#4
Chloromethane
Concen: 0.035 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Tgt Ion: 50 Resp: 386
Ion Ratio Lower Upper
50 100
52 48.0 26.1 39.1#





#13

Ethanol

Concen: 0.443 ppbv

RT: 1.735 min Scan# 504

Delta R.T. 0.016 min

Lab File: VL042202.D

Acq: 31 Mar 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

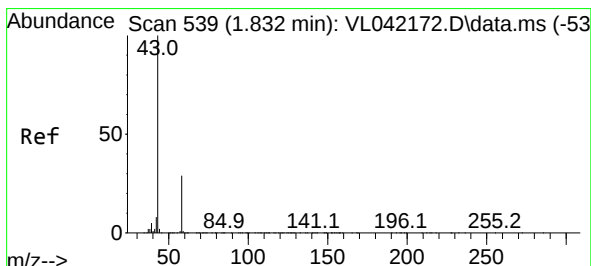
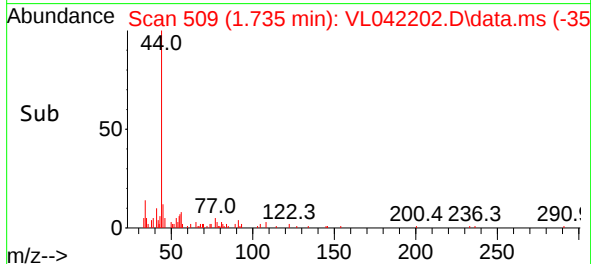
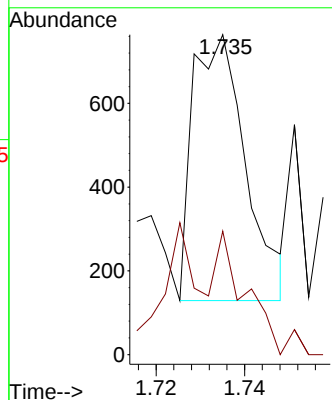
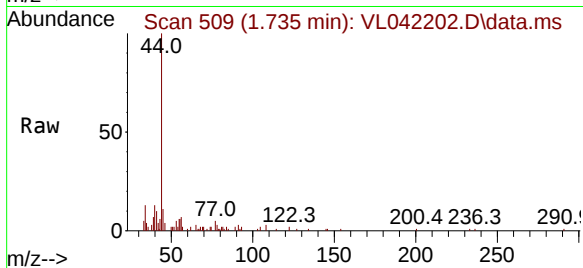
VL0331ABL01

Tgt Ion: 45 Resp: 526

Ion Ratio Lower Upper

45 100

46 88.4 20.2 80.8#



#15

Acetone

Concen: 0.342 ppbv

RT: 1.845 min Scan# 543

Delta R.T. 0.013 min

Lab File: VL042202.D

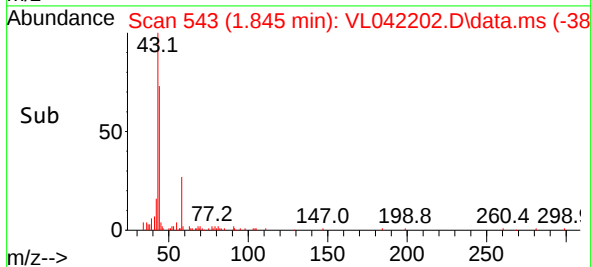
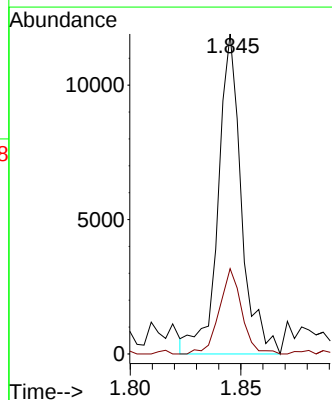
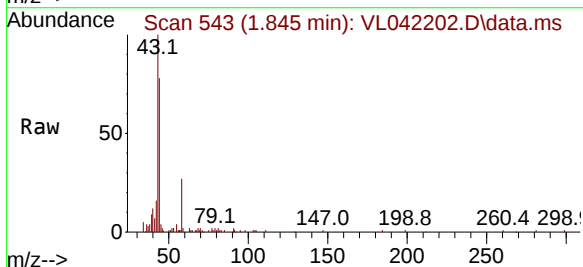
Acq: 31 Mar 2025 09:34

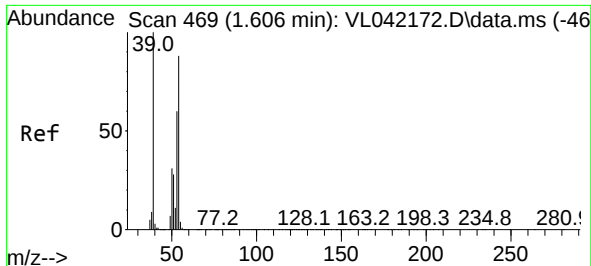
Tgt Ion: 43 Resp: 8703

Ion Ratio Lower Upper

43 100

58 27.5 23.2 34.8





#16

1,3-Butadiene

Concen: 0.175 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL042202.D

Acq: 31 Mar 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

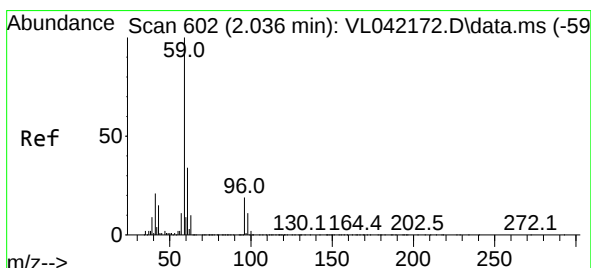
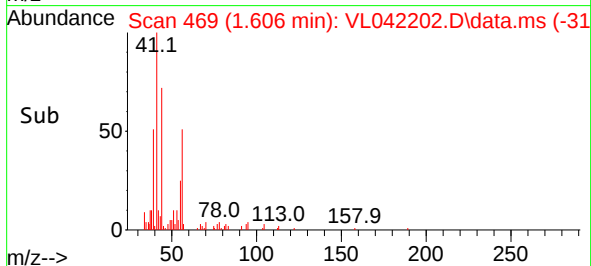
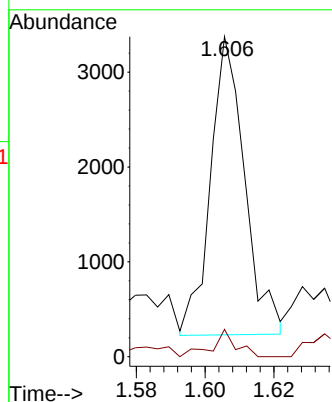
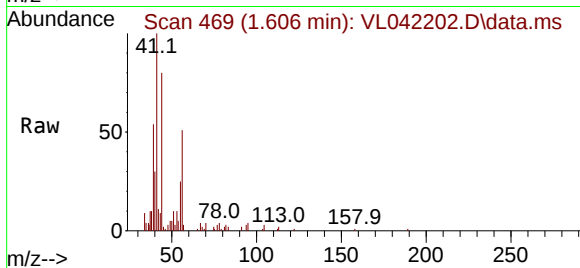
VL0331ABL01

Tgt Ion: 39 Resp: 2171

Ion Ratio Lower Upper

39 100

54 10.1 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.062 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.022 min

Lab File: VL042202.D

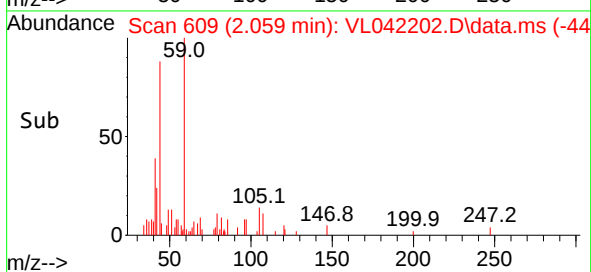
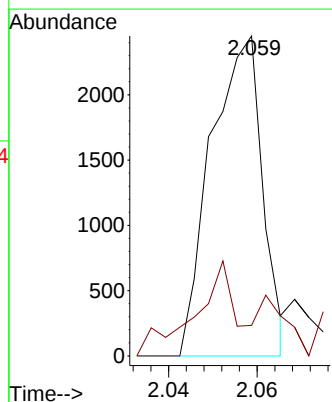
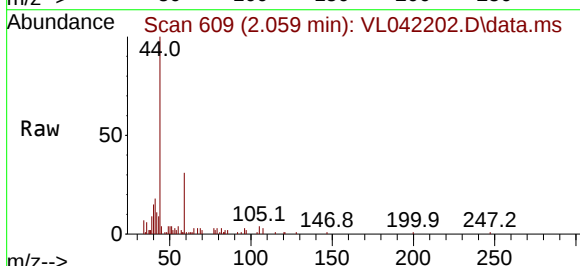
Acq: 31 Mar 2025 09:34

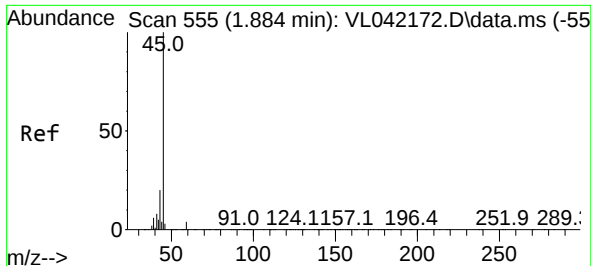
Tgt Ion: 59 Resp: 1973

Ion Ratio Lower Upper

59 100

57 50.3 8.9 13.3#

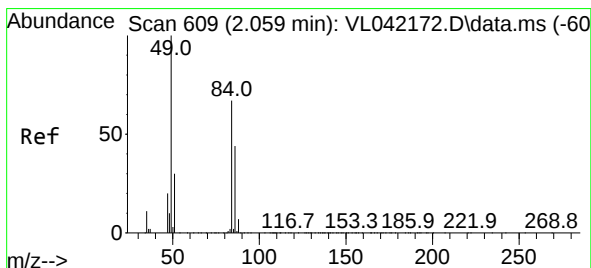
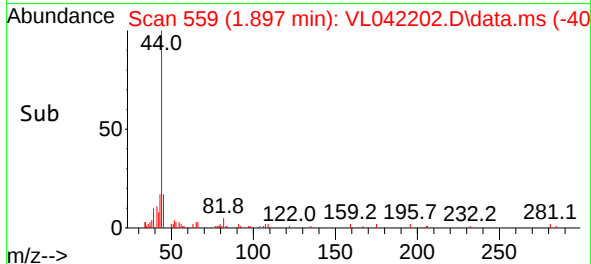
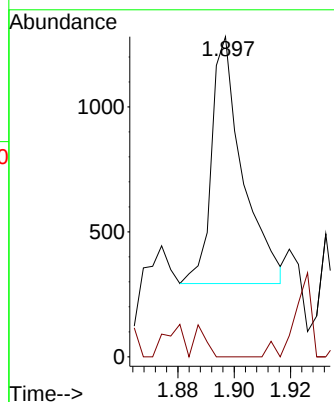
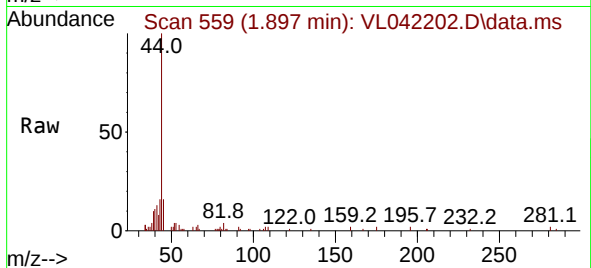




#19
Isopropyl Alcohol
Concen: 0.052 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

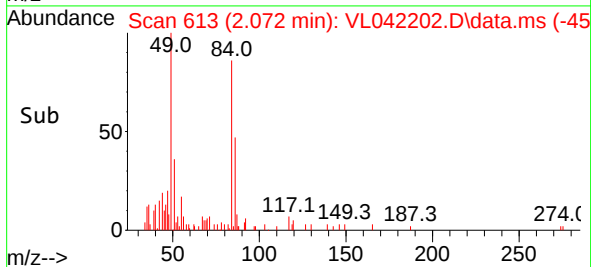
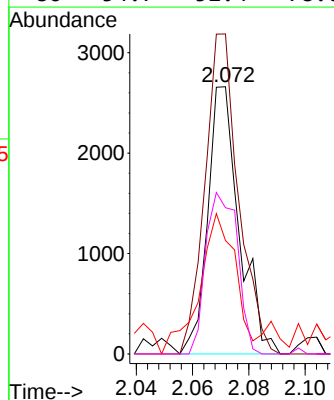
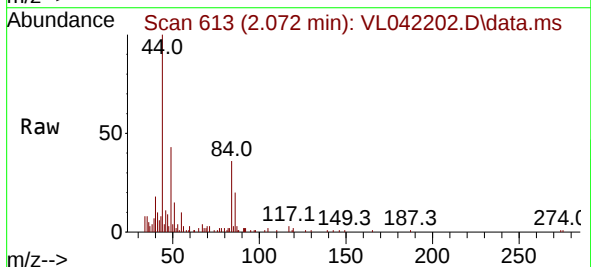
Instrument :
MSVOA_1
ClientSampleId :
VL0331ABL01

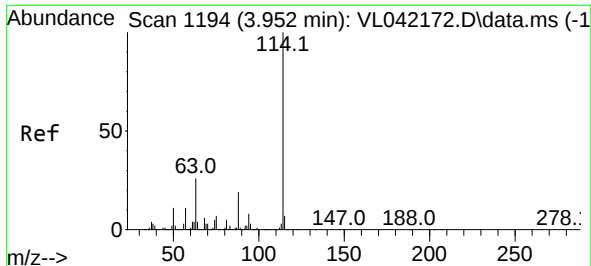
Tgt Ion: 45 Resp: 753
Ion Ratio Lower Upper
45 100
58 12.6 36.9 55.3#



#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Tgt Ion: 84 Resp: 2079
Ion Ratio Lower Upper
84 100
49 119.8 120.2 180.4#
51 32.2 37.4 56.0#
86 54.7 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL042202.D

Acq: 31 Mar 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VL0331ABL01

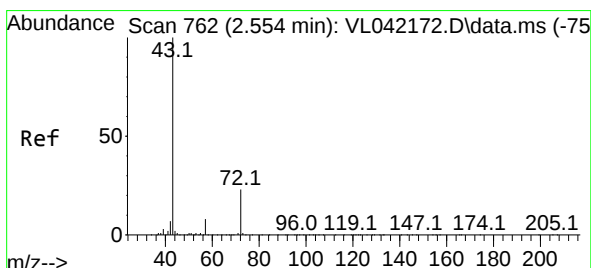
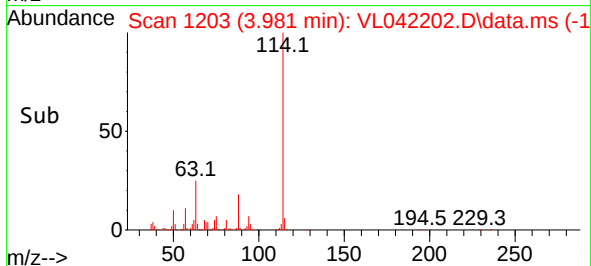
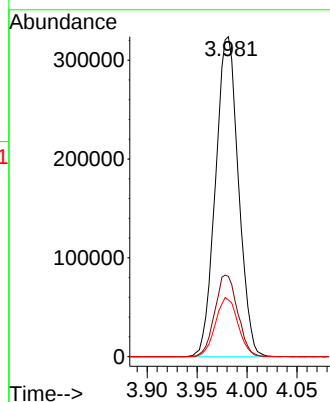
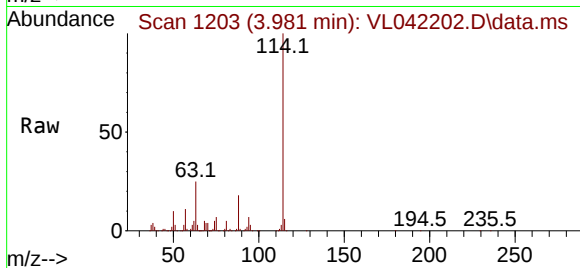
Tgt Ion:114 Resp: 517775

Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 18.2 15.0 22.4



#34

2-Butanone

Concen: 0.035 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.026 min

Lab File: VL042202.D

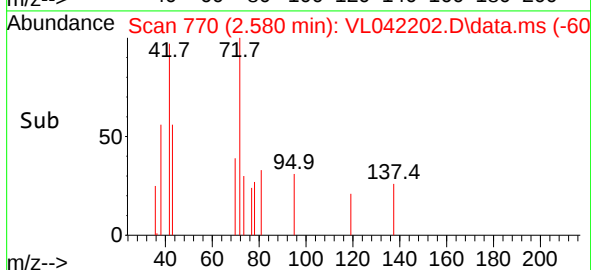
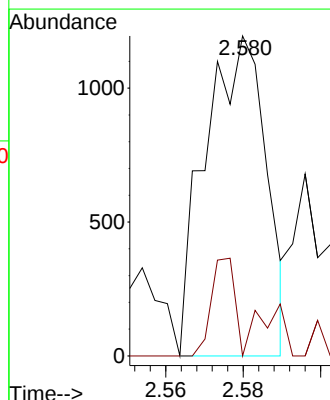
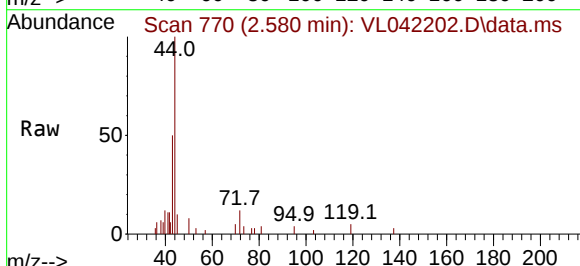
Acq: 31 Mar 2025 09:34

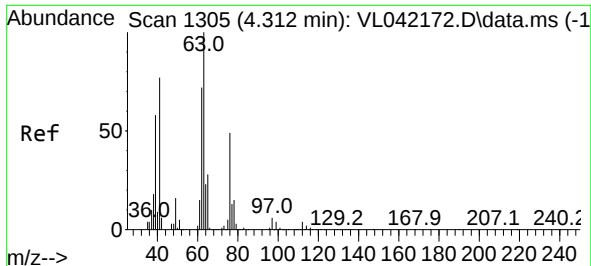
Tgt Ion: 43 Resp: 1309

Ion Ratio Lower Upper

43 100

72 20.6 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.031 ppbv

RT: 3.978 min Scan# 1

Delta R.T. -0.334 min

Lab File: VL042202.D

Acq: 31 Mar 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VL0331ABL01

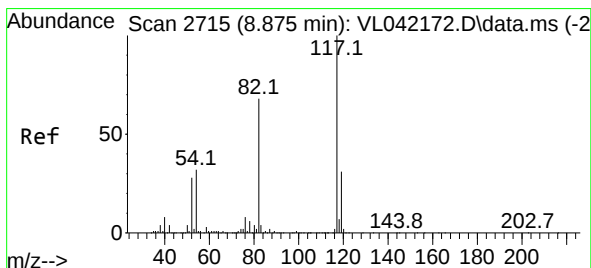
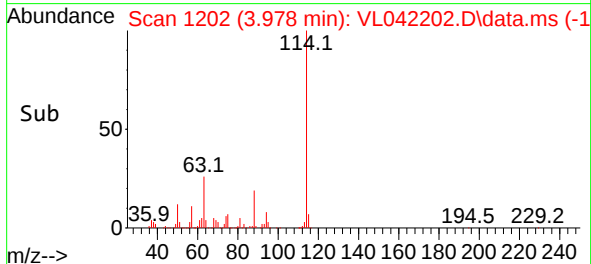
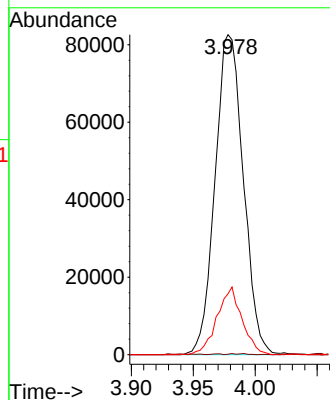
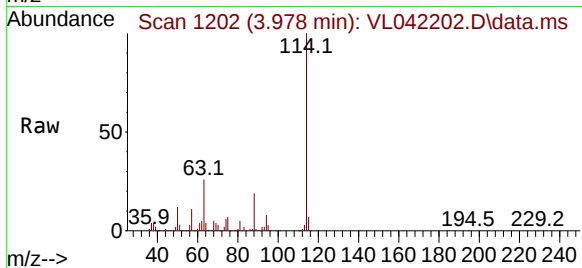
Tgt Ion: 63 Resp: 131441

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 19.0 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: VL042202.D

Acq: 31 Mar 2025 09:34

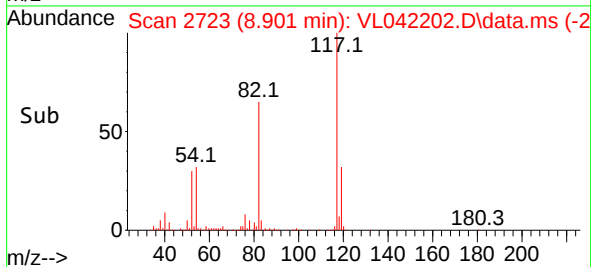
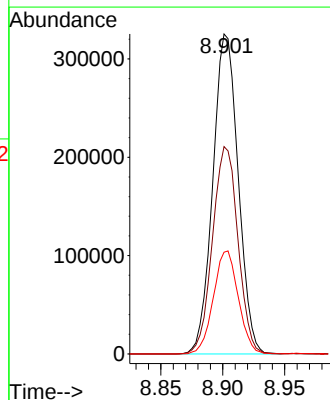
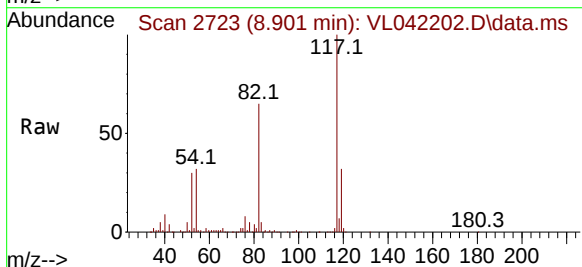
Tgt Ion: 117 Resp: 464953

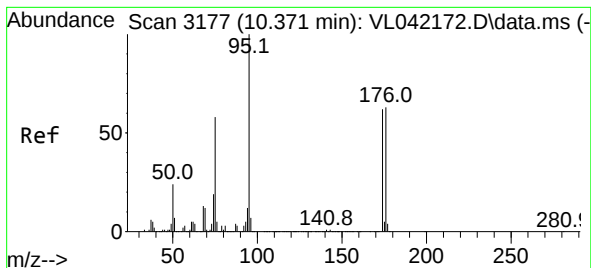
Ion Ratio Lower Upper

117 100

82 65.0 55.8 83.6

119 31.7 25.5 38.3

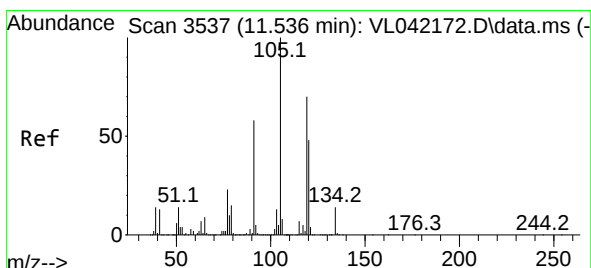
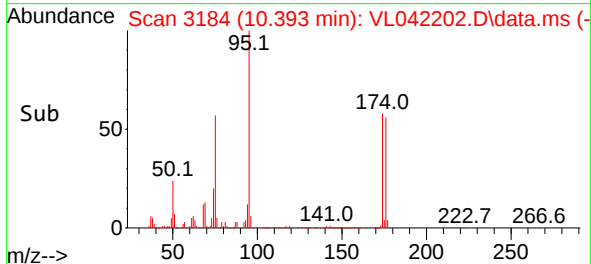
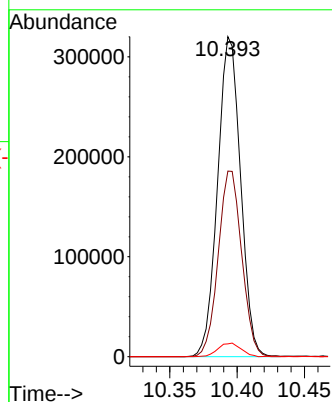
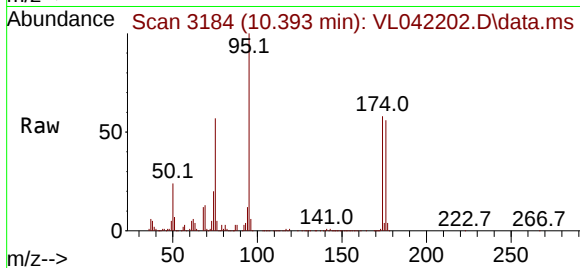




#68
1-Bromo-4-Fluorobenzene
Concen: 9.949 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.022 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

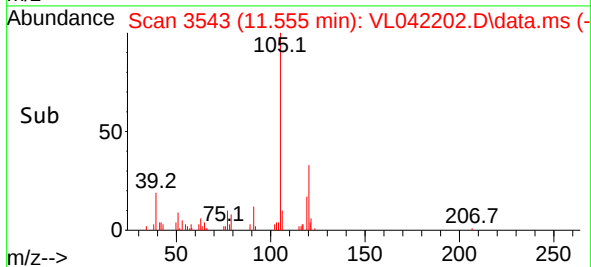
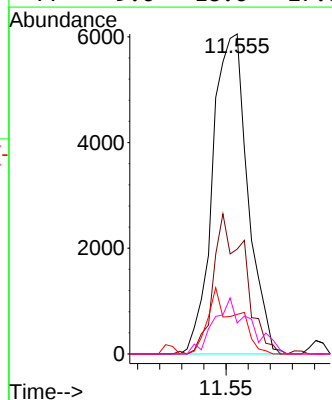
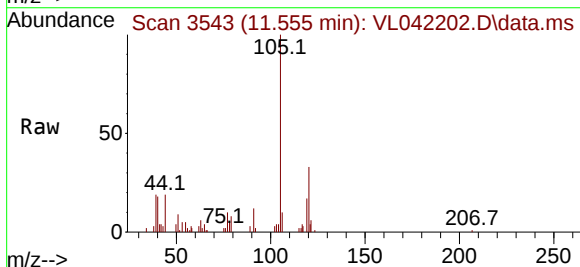
Instrument :
MSVOA_1
ClientSampleId :
VL0331ABL01

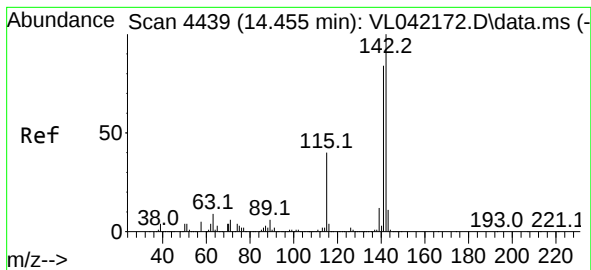
Tgt Ion: 95 Resp: 379890
Ion Ratio Lower Upper
95 100
174 59.4 50.6 76.0
175 4.3 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.080 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.019 min
Lab File: VL042202.D
Acq: 31 Mar 2025 09:34

Tgt Ion: 105 Resp: 6660
Ion Ratio Lower Upper
105 100
120 36.5 38.6 58.0#
91 12.4 46.2 69.2#
77 9.6 18.6 27.8#





#80

Naphthalene, 2-methyl-

Concen: 0.041 ppbv

RT: 14.474 min Scan# 44

Delta R.T. 0.019 min

Lab File: VL042202.D

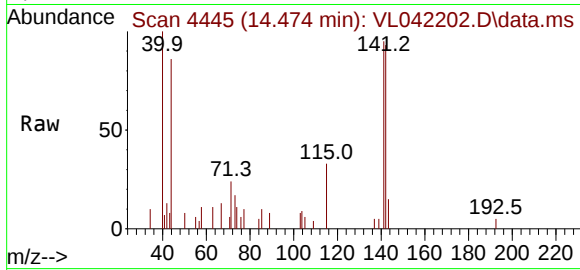
Acq: 31 Mar 2025 09:34

Instrument :

MSVOA_L

ClientSampleId :

VL0331ABL01



Tgt Ion:142 Resp: 1833

Ion Ratio Lower Upper

142 100

141 71.3 66.3 99.5

115 34.0 31.6 47.4

