

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042327.D
 Acq On : 15 Apr 2025 12:12
 Operator : SY/MD
 Sample : VL0415ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABL01

Quant Time: Apr 16 01:30:06 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)

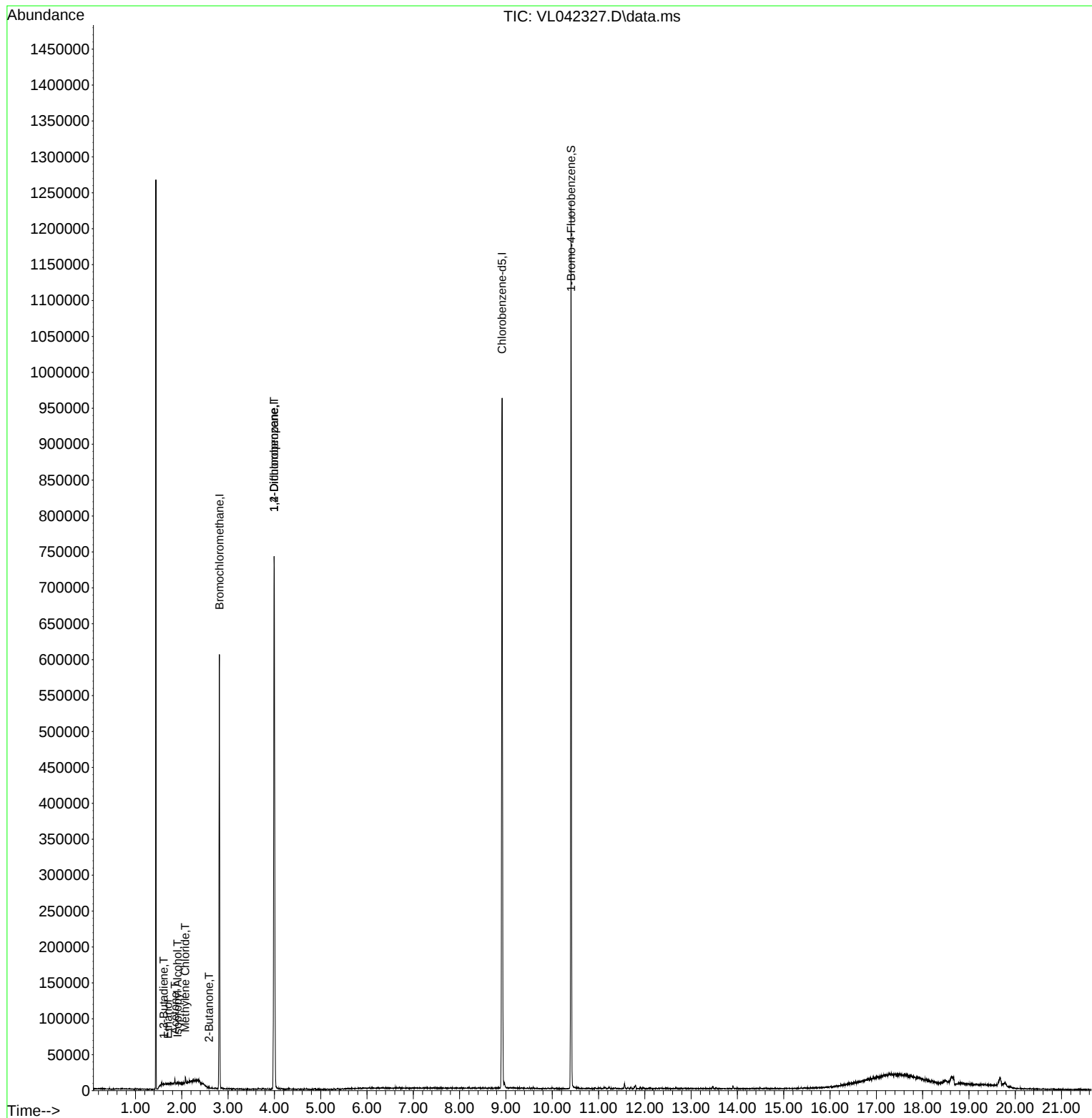
Internal Standards						
1) Bromochloromethane	2.813	49	173729	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	447320	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	385318	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	292759	9.252	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.500%
Target Compounds						
					Qvalue	
13) Ethanol	1.703	45	241	0.212	ppbv #	27
15) Acetone	1.852	43	3245	0.134	ppbv	95
16) 1,3-Butadiene	1.609	39	391	0.033	ppbv #	11
19) Isopropyl Alcohol	1.907	45	678	0.049	ppbv #	49
20) Methylene Chloride	2.075	84	1300	0.144	ppbv #	81
34) 2-Butanone	2.586	43	1210	0.037	ppbv	92
39) 1,2-Dichloropropane	3.994	63	112438	6.962	ppbv #	22

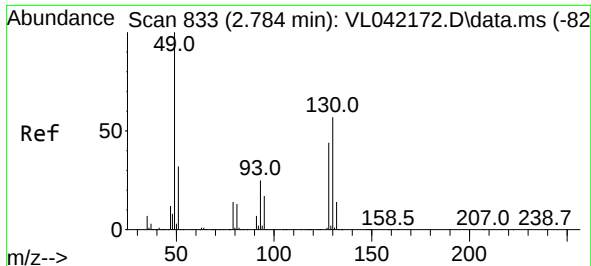
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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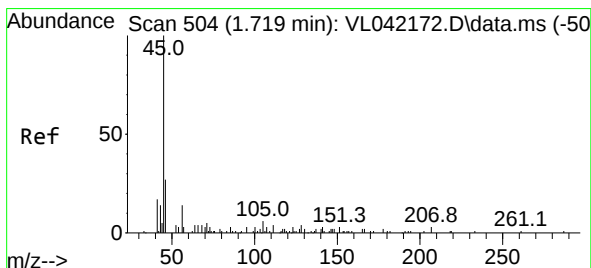
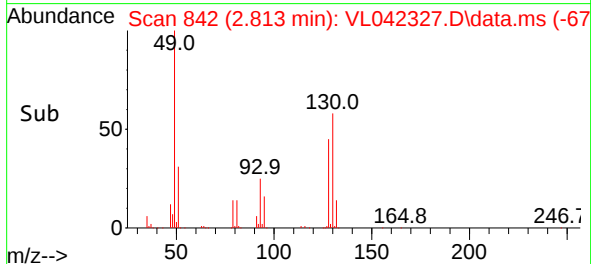
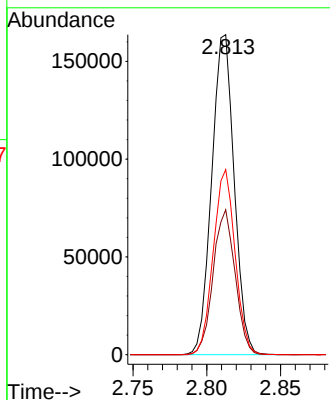
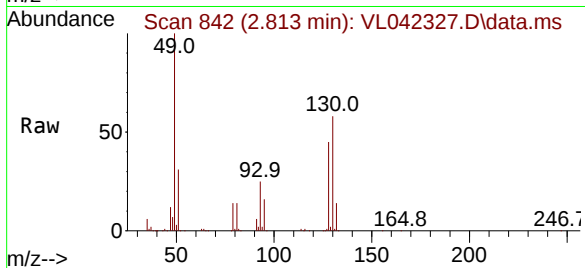




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.813 min Scan# 84
Delta R.T. 0.029 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

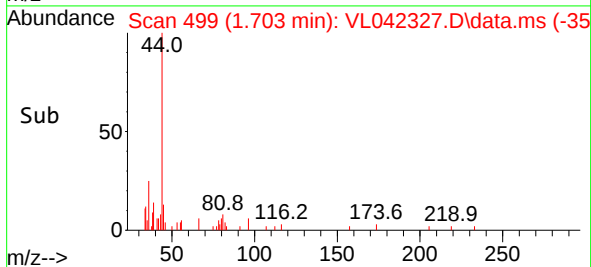
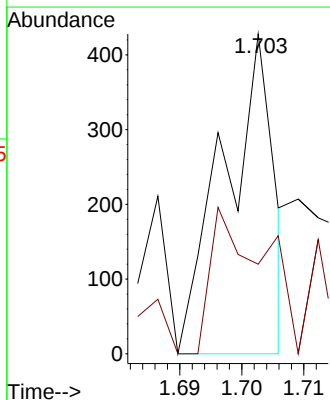
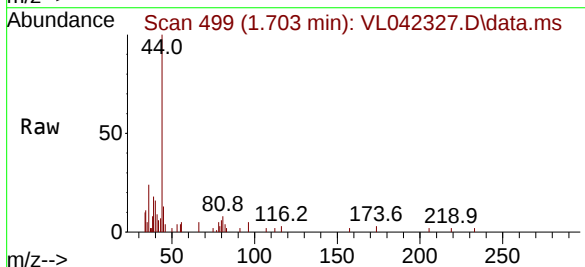
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

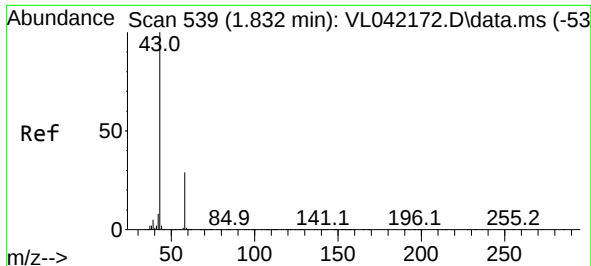
Tgt Ion: 49 Resp: 173729
Ion Ratio Lower Upper
49 100
128 44.3 22.9 68.5
130 56.2 28.8 86.4



#13
Ethanol
Concen: 0.212 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.016 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion: 45 Resp: 241
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 0.134 ppbv

RT: 1.852 min Scan# 54

Delta R.T. 0.019 min

Lab File: VL042327.D

Acq: 15 Apr 2025 12:12

Instrument :

MSVOA_1

ClientSampleId :

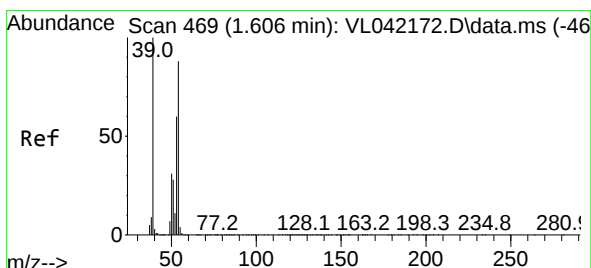
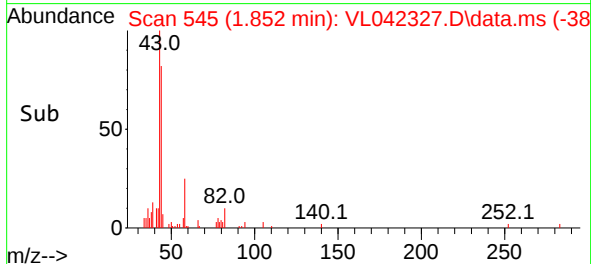
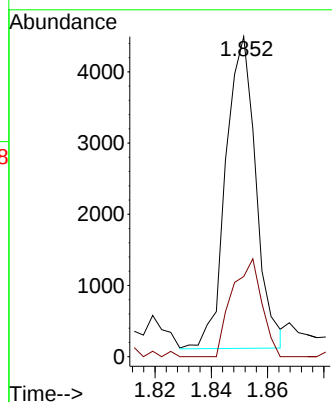
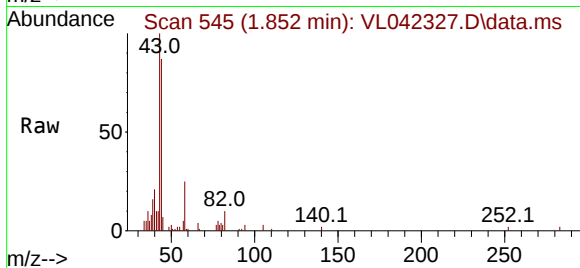
VL0415ABL01

Tgt Ion: 43 Resp: 3245

Ion Ratio Lower Upper

43 100

58 31.5 23.2 34.8



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042327.D

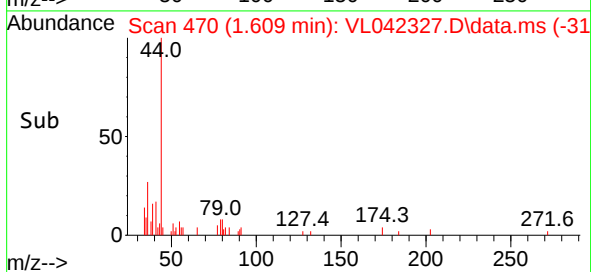
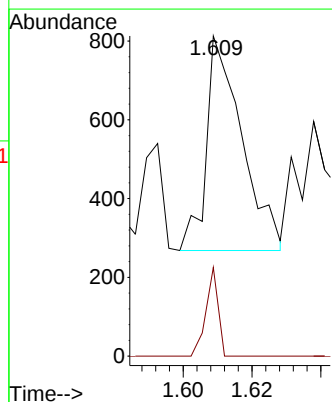
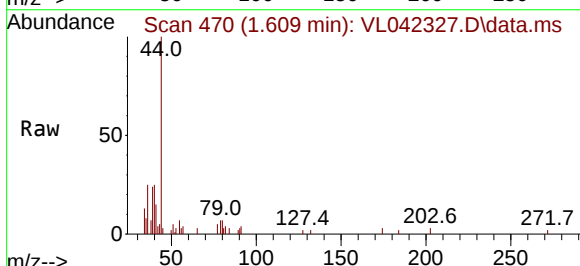
Acq: 15 Apr 2025 12:12

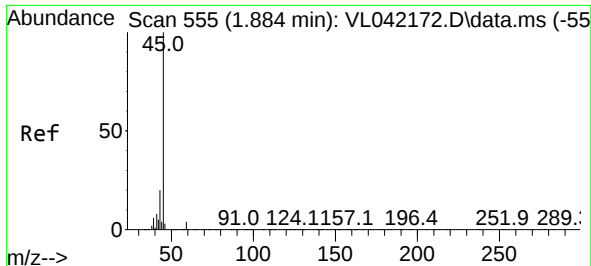
Tgt Ion: 39 Resp: 391

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#

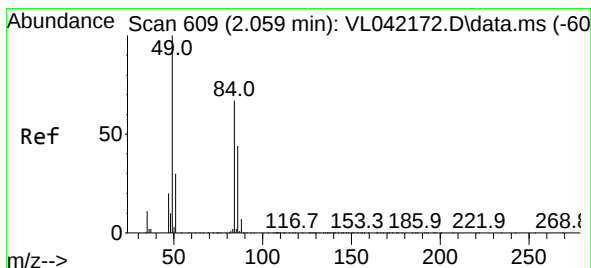
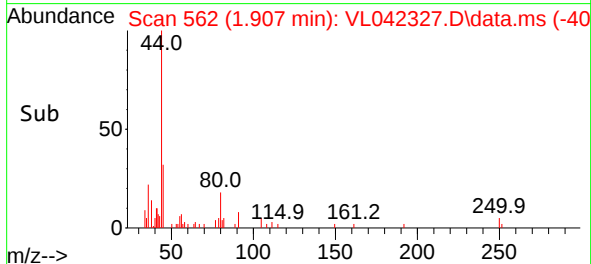
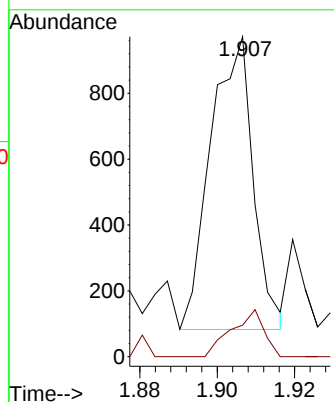
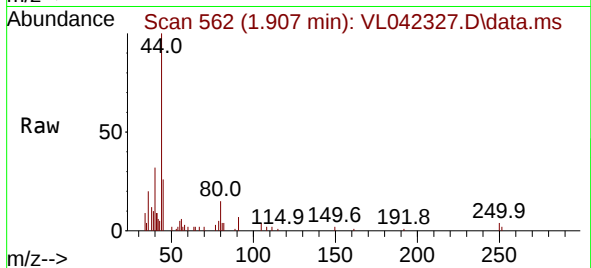




#19
Isopropyl Alcohol
Concen: 0.049 ppbv
RT: 1.907 min Scan# 51
Delta R.T. 0.022 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

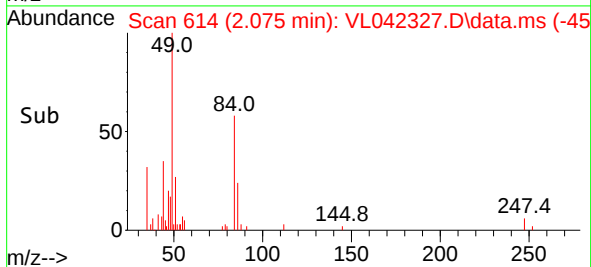
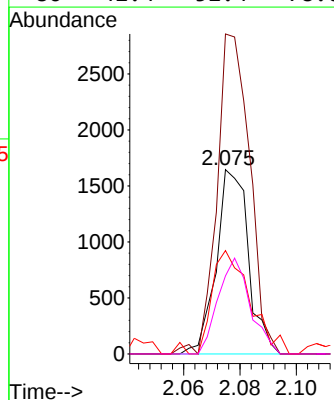
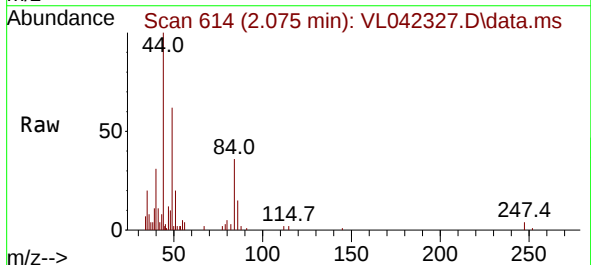
Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

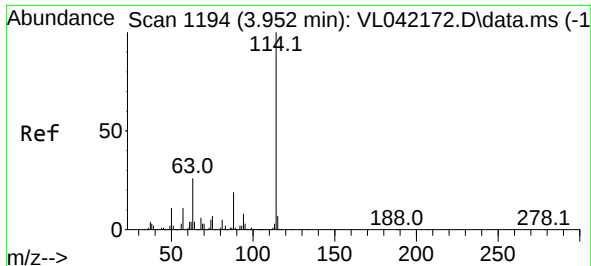
Tgt Ion: 45 Resp: 678
Ion Ratio Lower Upper
45 100
58 12.2 36.9 55.3#



#20
Methylene Chloride
Concen: 0.144 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion: 84 Resp: 1300
Ion Ratio Lower Upper
84 100
49 173.7 120.2 180.4
51 49.8 37.4 56.0
86 42.4 52.4 78.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.994 min Scan# 11

Delta R.T. 0.042 min

Lab File: VL042327.D

Acq: 15 Apr 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABL01

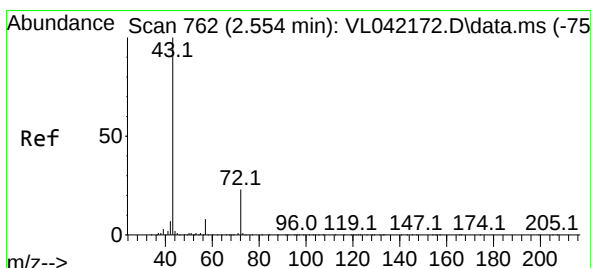
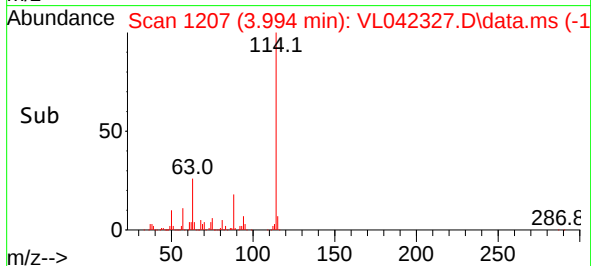
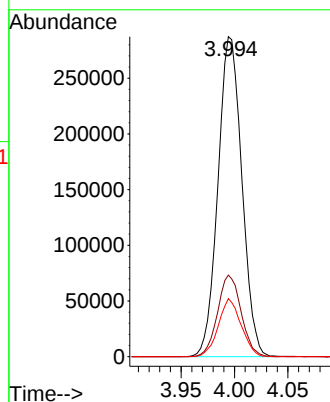
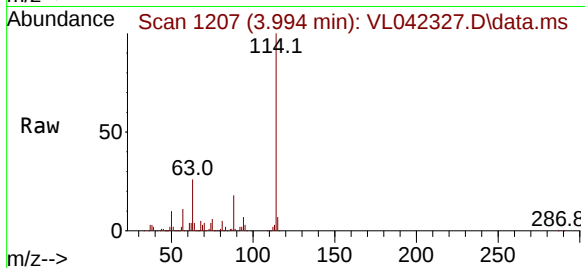
Tgt Ion:114 Resp: 447320

Ion Ratio Lower Upper

114 100

63 25.2 20.7 31.1

88 17.3 15.0 22.4



#34

2-Butanone

Concen: 0.037 ppbv

RT: 2.586 min Scan# 772

Delta R.T. 0.032 min

Lab File: VL042327.D

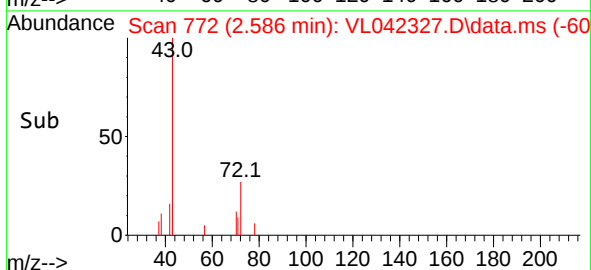
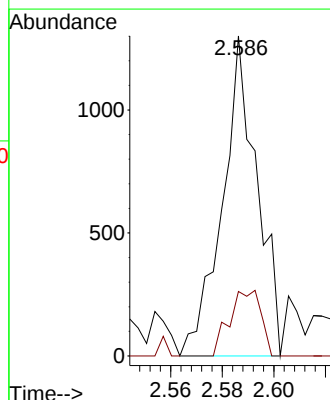
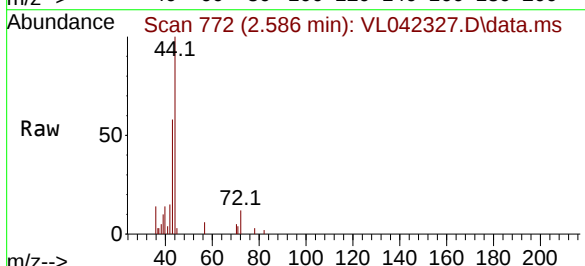
Acq: 15 Apr 2025 12:12

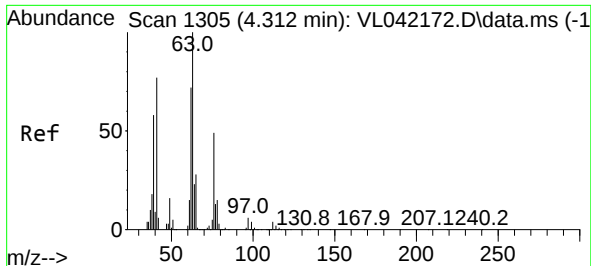
Tgt Ion: 43 Resp: 1210

Ion Ratio Lower Upper

43 100

72 18.8 18.2 27.2





#39

1,2-Dichloropropane

Concen: 6.962 ppbv

RT: 3.994 min Scan# 11

Delta R.T. -0.317 min

Lab File: VL042327.D

Acq: 15 Apr 2025 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0415ABL01

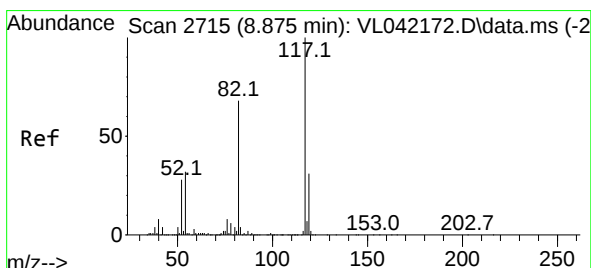
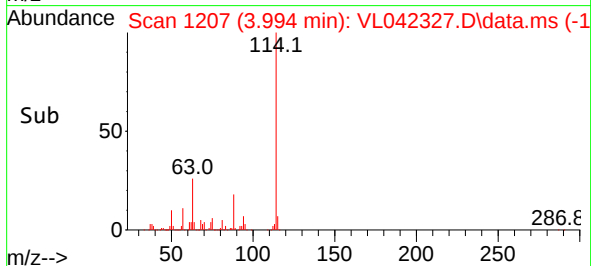
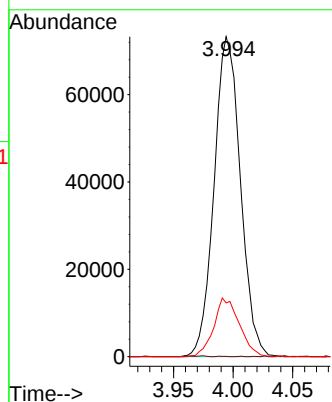
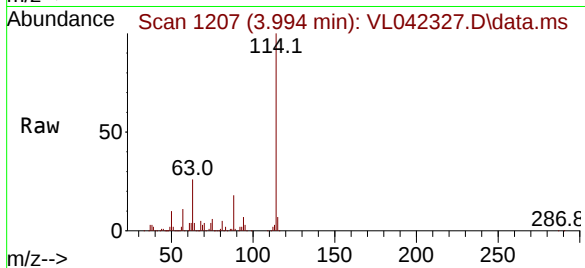
Tgt Ion: 63 Resp: 112438

Ion Ratio Lower Upper

63 100

41 0.1 61.7 92.5#

62 16.8 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.917 min Scan# 2728

Delta R.T. 0.042 min

Lab File: VL042327.D

Acq: 15 Apr 2025 12:12

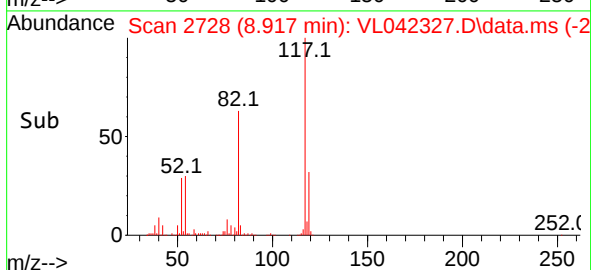
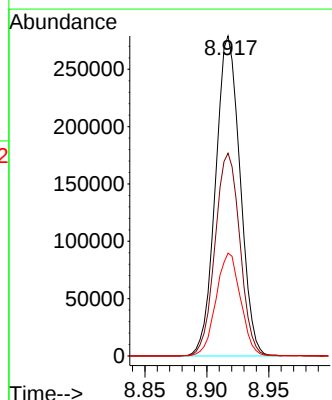
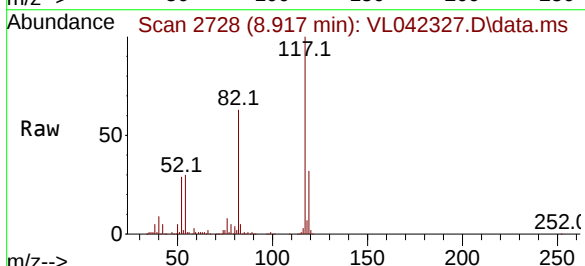
Tgt Ion: 117 Resp: 385318

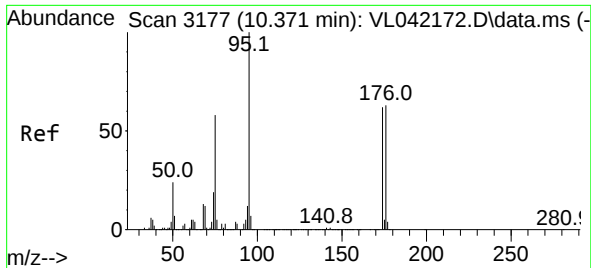
Ion Ratio Lower Upper

117 100

82 64.3 55.8 83.6

119 32.2 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.252 ppbv
 RT: 10.406 min Scan# 31
 Delta R.T. 0.035 min
 Lab File: VL042327.D
 Acq: 15 Apr 2025 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABL01

Tgt Ion: 95 Resp: 292759
 Ion Ratio Lower Upper
 95 100
 174 64.8 50.6 76.0
 175 4.9 3.8 5.6

