

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041936.D
 Acq On : 21 Jan 2025 00:31
 Operator : SY/MD
 Sample : MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 05:10:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	130077	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	359691	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	312645	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	242943	9.866	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	563	0.032	ppbv #	85
3) Chlorodifluoromethane	1.470	51	960	0.052	ppbv	97
4) Chloromethane	1.531	50	291	0.044	ppbv	94
5) Vinyl Chloride	1.577	62	261	0.039	ppbv #	77
6) Bromomethane	1.664	94	225	0.070	ppbv	81
7) Chloroethane	1.703	64	180	0.069	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	676	0.044	ppbv #	77
9) Propene	1.479	41	529	0.069	ppbv	98
11) Trichlorofluoromethane	1.871	101	703	0.038	ppbv #	57
13) Ethanol	1.706	45	72	0.129	ppbv	70
14) Bromoethene	1.774	108	222	0.042	ppbv #	58
15) Acetone	1.832	43	1840	0.118	ppbv #	85
16) 1,3-Butadiene	1.602	39	636	0.091	ppbv #	63
18) 1,1-Dichloroethene	2.023	96	282	0.043	ppbv #	35
19) Isopropyl Alcohol	1.884	45	936	0.101	ppbv #	32
20) Methylene Chloride	2.052	84	631	0.102	ppbv #	92
21) Allyl Chloride	2.091	41	455	0.042	ppbv #	11
22) trans-1,2-Dichloroethene	2.331	96	267	0.036	ppbv #	39
24) 1,1-Dichloroethane	2.395	63	516	0.036	ppbv #	87
29) Chloroform	2.839	83	1083	0.041	ppbv	86
37) 1,2-Dichloroethane	3.211	62	796	0.043	ppbv #	80
39) 1,2-Dichloropropane	3.942	63	89361	7.722	ppbv #	23

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

Instrument :

MSVOA_L

ClientSampleId :

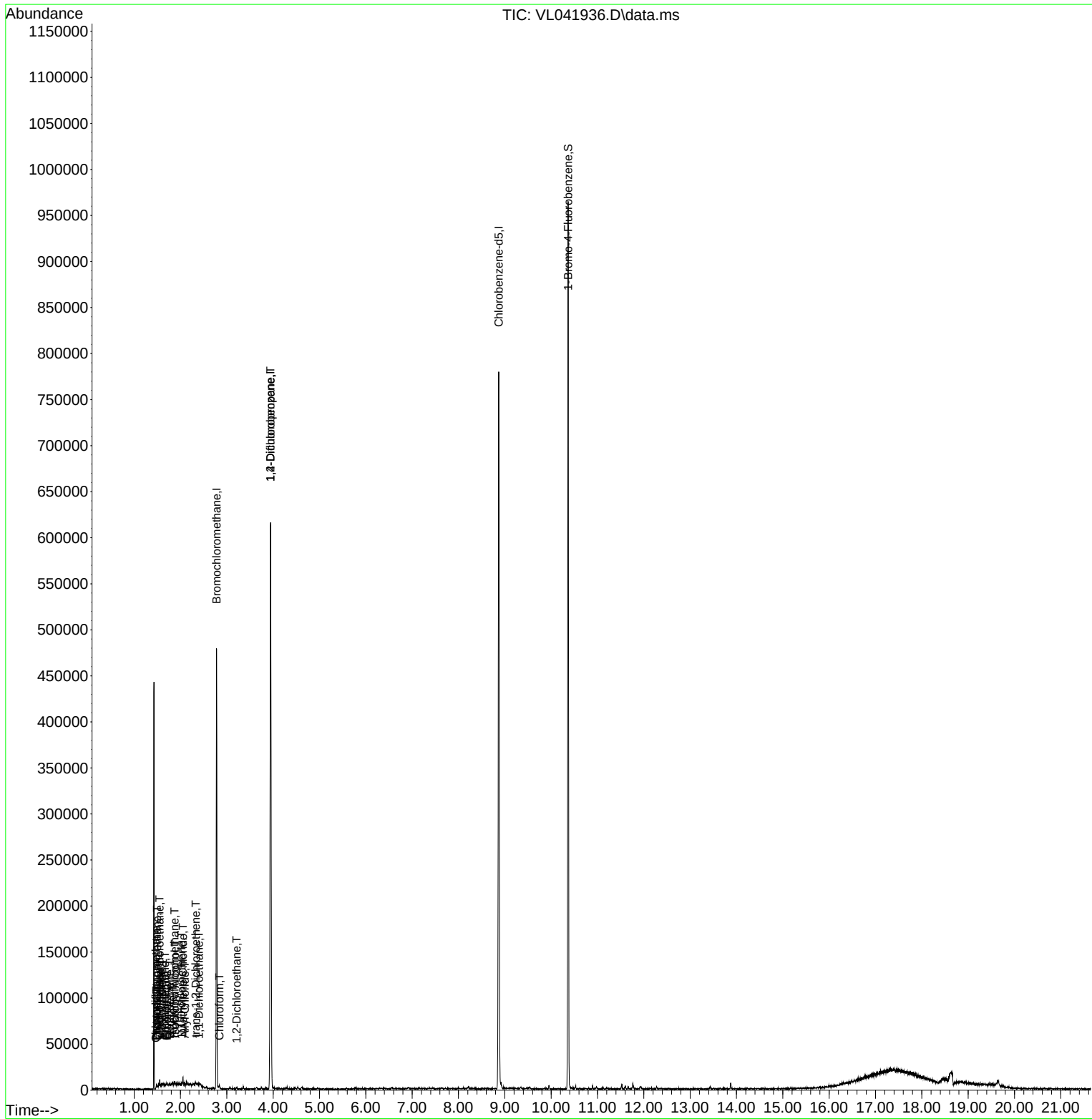
Quant Time: Jan 21 05:10:12 2025

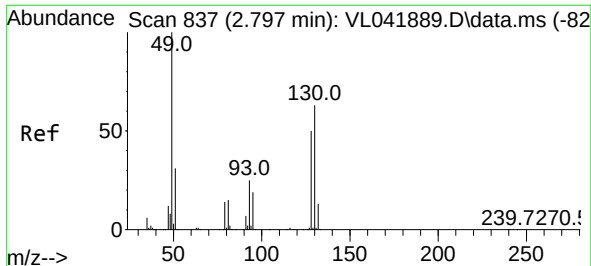
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

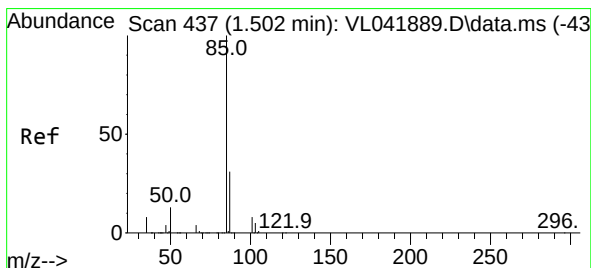
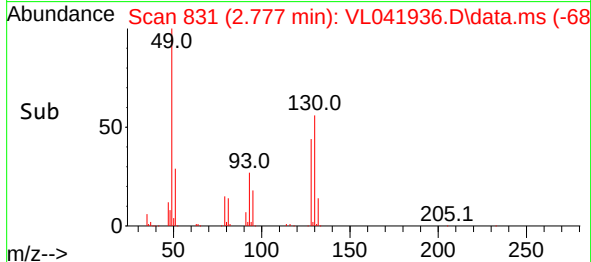
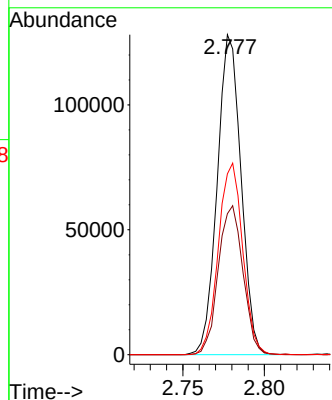
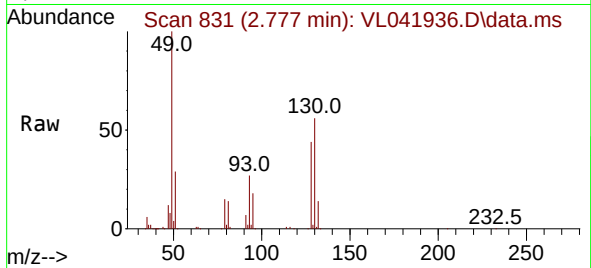




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

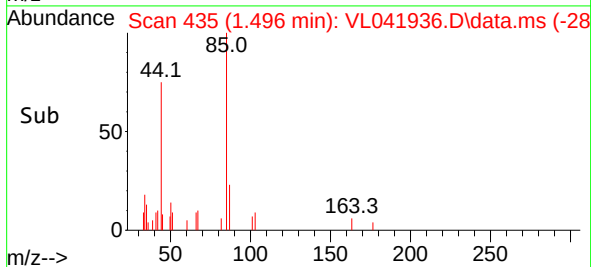
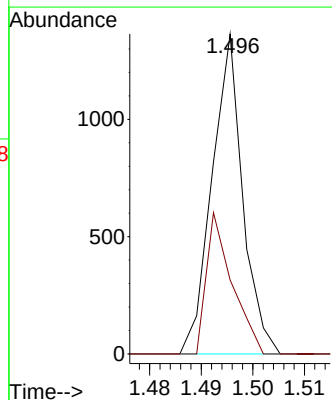
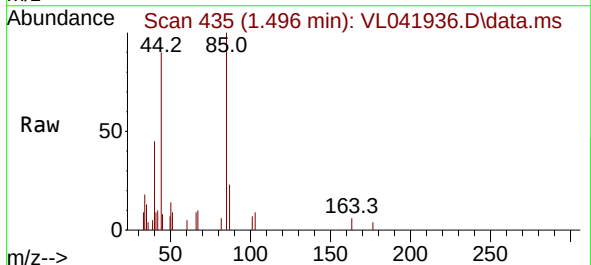
Instrument :
MSVOA_L
ClientSampleId :

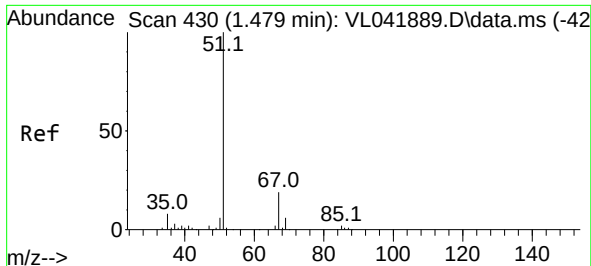
Tgt Ion: 49 Resp: 130077
Ion Ratio Lower Upper
49 100
128 48.3 24.3 73.0
130 61.3 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.032 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

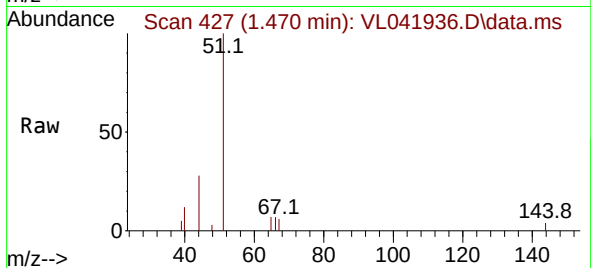
Tgt Ion: 85 Resp: 563
Ion Ratio Lower Upper
85 100
87 23.1 24.9 37.3#



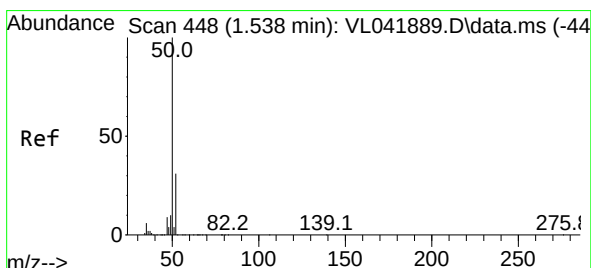
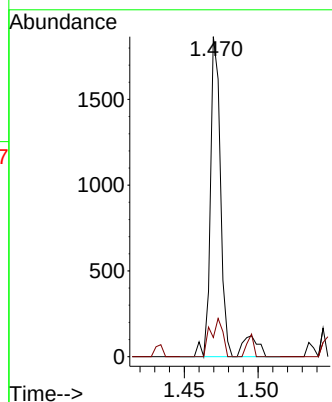
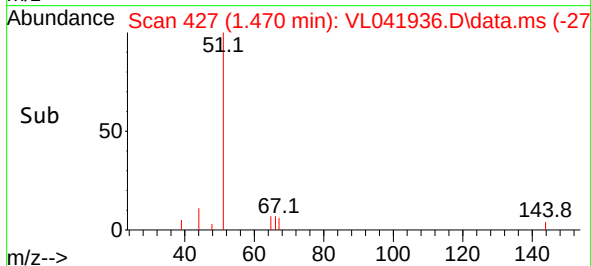


#3
Chlorodifluoromethane
Concen: 0.052 ppbv
RT: 1.470 min Scan# 430
Delta R.T. -0.010 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

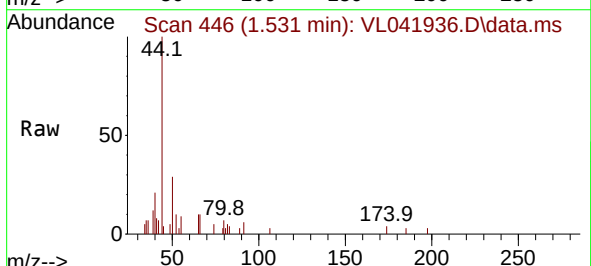
Instrument :
MSVOA_L
ClientSampleId :



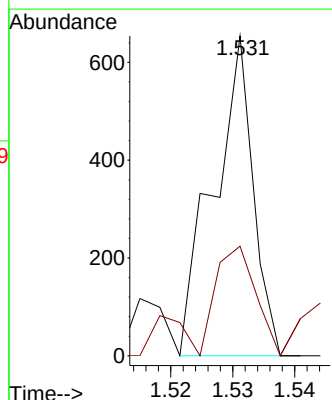
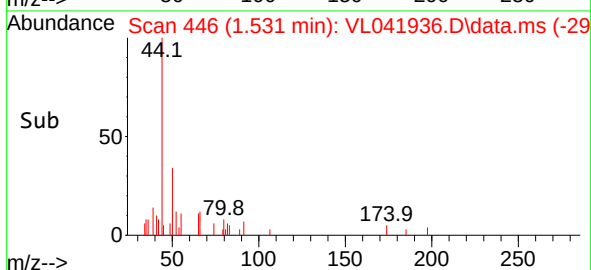
Tgt Ion: 51 Resp: 960
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.4

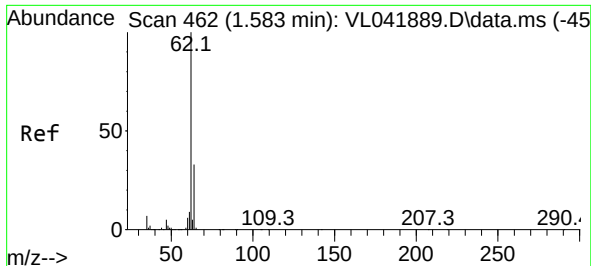


#4
Chloromethane
Concen: 0.044 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31



Tgt Ion: 50 Resp: 291
Ion Ratio Lower Upper
50 100
52 34.3 24.6 36.8

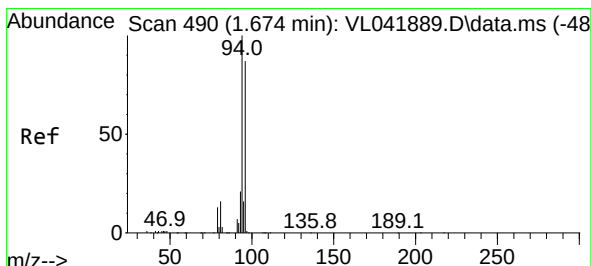
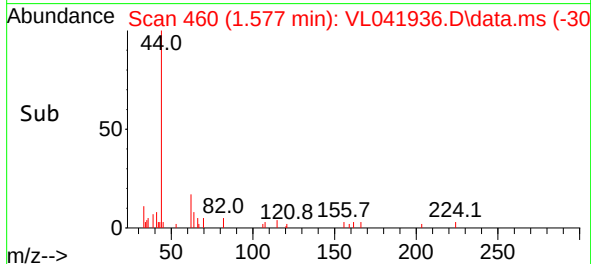
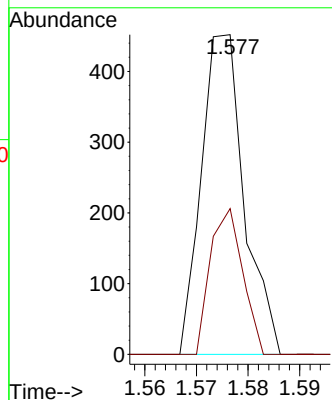
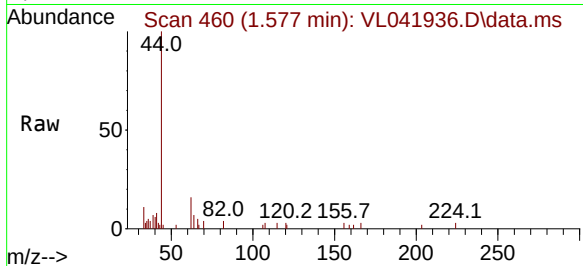




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.006 min
 Lab File: VL041936.D
 Acq: 21 Jan 2025 00:31

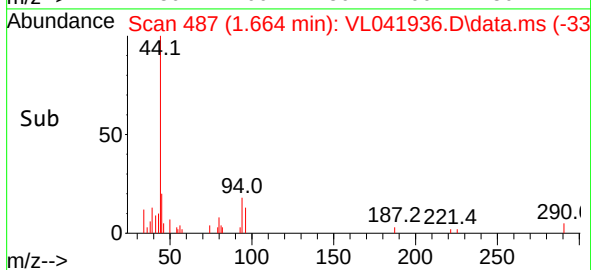
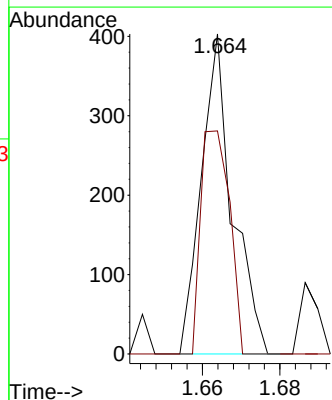
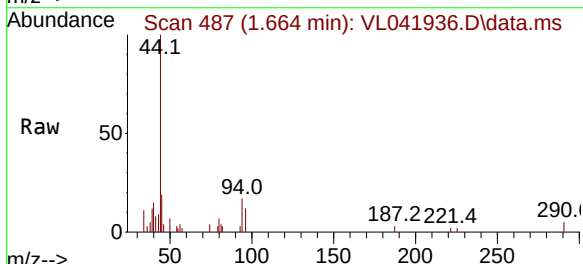
Instrument :
 MSVOA_L
 ClientSampleId :

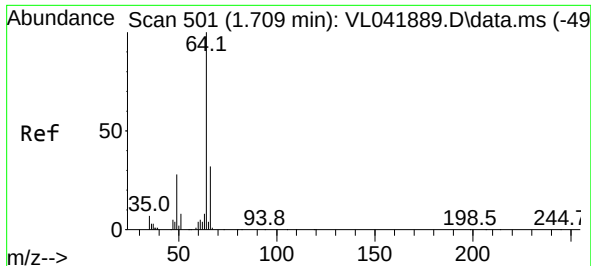
Tgt Ion: 62 Resp: 261
 Ion Ratio Lower Upper
 62 100
 64 45.6 26.1 39.1#



#6
 Bromomethane
 Concen: 0.070 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.010 min
 Lab File: VL041936.D
 Acq: 21 Jan 2025 00:31

Tgt Ion: 94 Resp: 225
 Ion Ratio Lower Upper
 94 100
 96 69.7 69.5 104.3

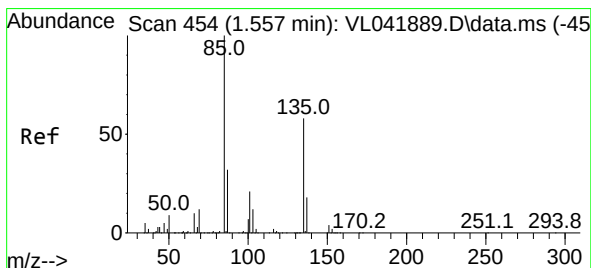
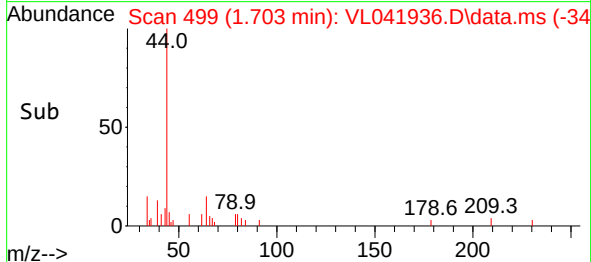
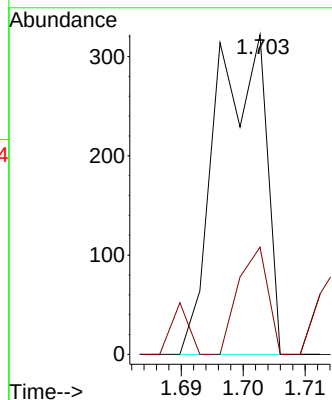
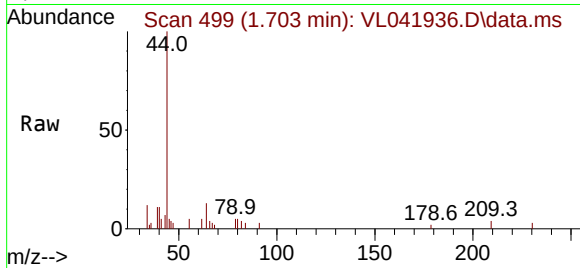




#7
Chloroethane
Concen: 0.069 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.006 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

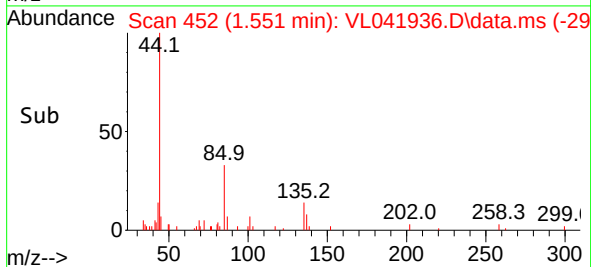
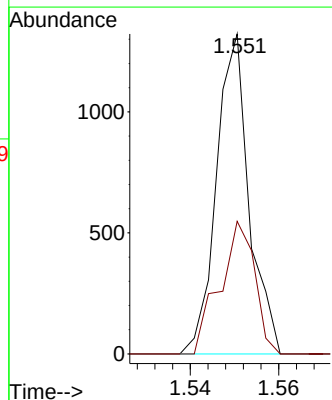
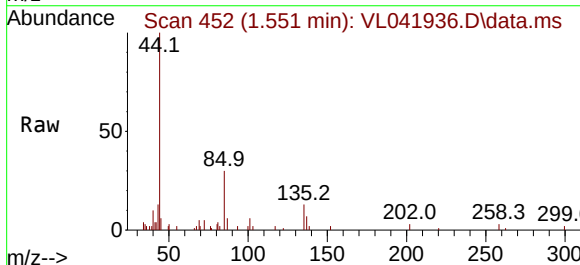
Instrument :
MSVOA_L
ClientSampleId :

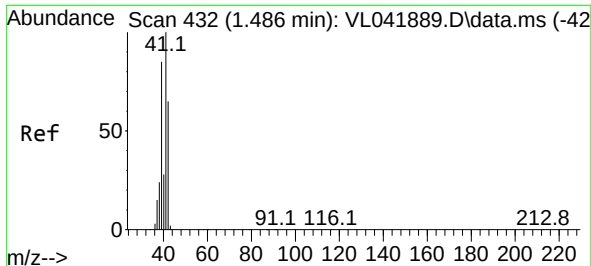
Tgt Ion: 64 Resp: 180
Ion Ratio Lower Upper
64 100
66 33.5 25.7 38.5



#8
Dichlorotetrafluoroethane
Concen: 0.044 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.006 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Tgt Ion: 85 Resp: 676
Ion Ratio Lower Upper
85 100
135 44.5 50.0 75.0#

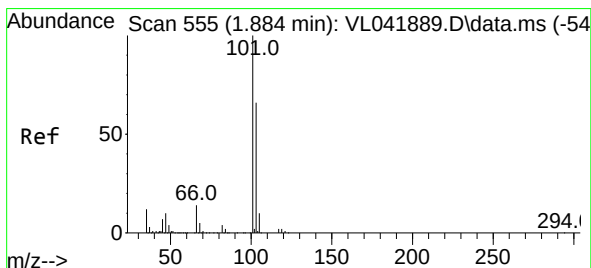
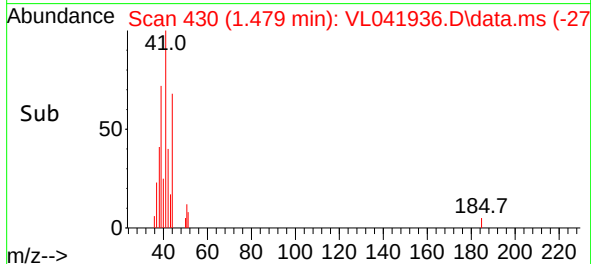
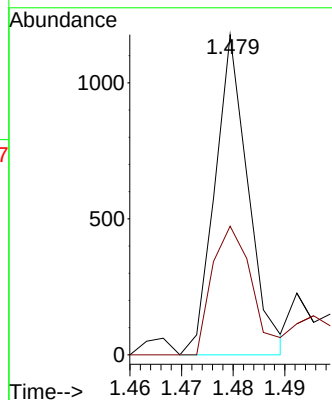
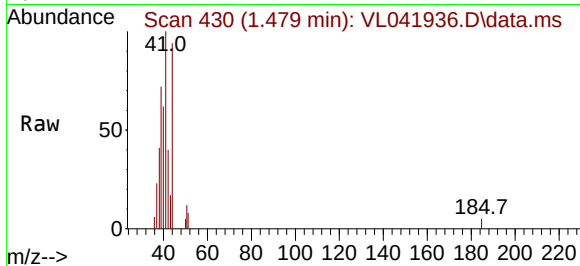




#9
 Propene
 Concen: 0.069 ppbv
 RT: 1.479 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL041936.D
 Acq: 21 Jan 2025 00:31

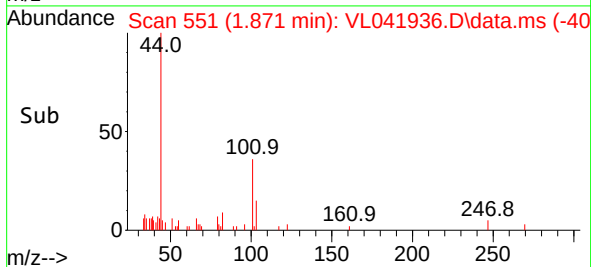
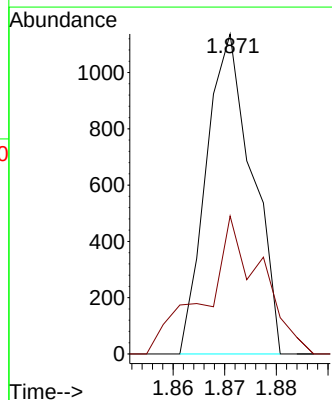
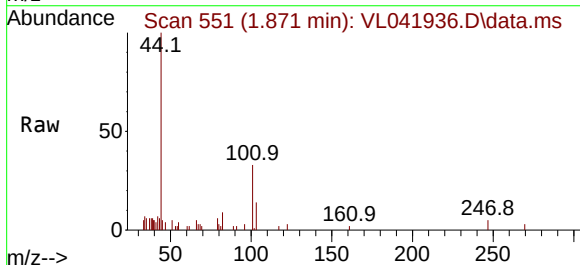
Instrument :
 MSVOA_L
 ClientSampleId :

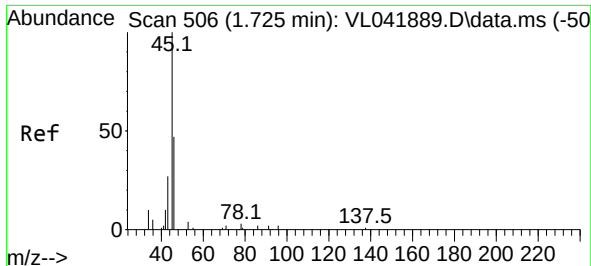
Tgt Ion: 41 Resp: 529
 Ion Ratio Lower Upper
 41 100
 42 66.7 52.0 78.0



#11
 Trichlorofluoromethane
 Concen: 0.038 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.013 min
 Lab File: VL041936.D
 Acq: 21 Jan 2025 00:31

Tgt Ion:101 Resp: 703
 Ion Ratio Lower Upper
 101 100
 103 31.8 53.1 79.7#

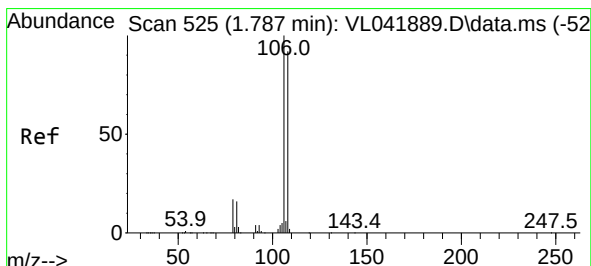
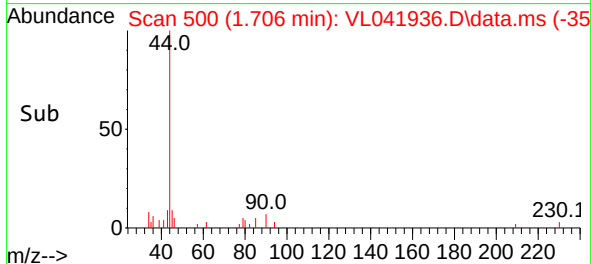
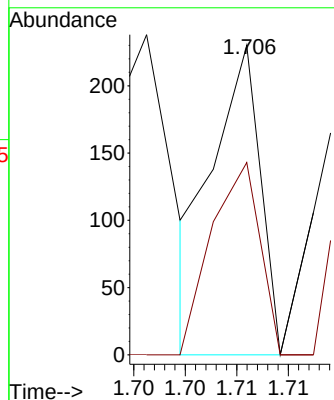
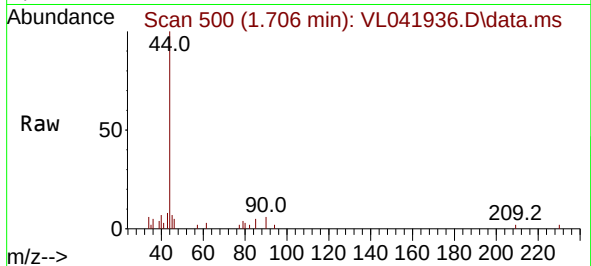




#13
Ethanol
Concen: 0.129 ppbv
RT: 1.706 min Scan# 506
Delta R.T. -0.019 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

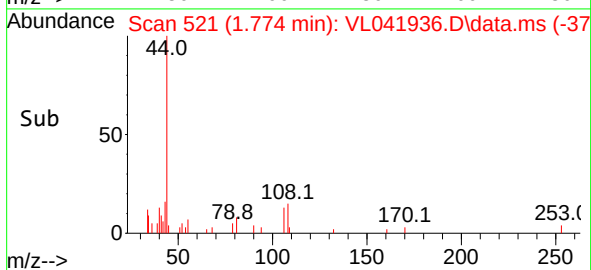
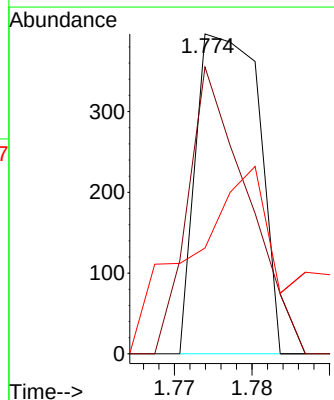
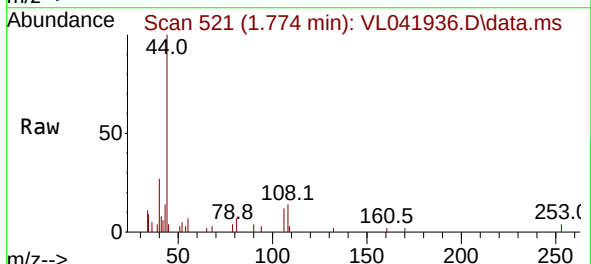
Instrument :
MSVOA_L
ClientSampleId :

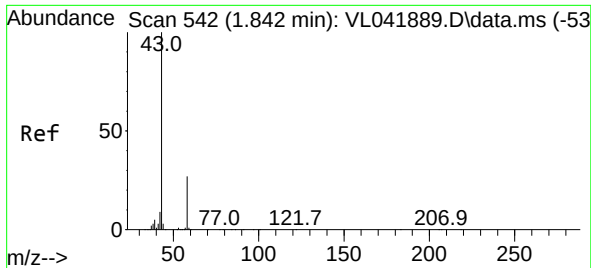
Tgt Ion: 45 Resp: 72
Ion Ratio Lower Upper
45 100
46 65.3 18.1 72.5



#14
Bromoethene
Concen: 0.042 ppbv
RT: 1.774 min Scan# 521
Delta R.T. -0.013 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Tgt Ion: 108 Resp: 222
Ion Ratio Lower Upper
108 100
106 90.1 85.5 128.3
79 104.1 15.3 22.9#





#15

Acetone

Concen: 0.118 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.010 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

Instrument :

MSVOA_L

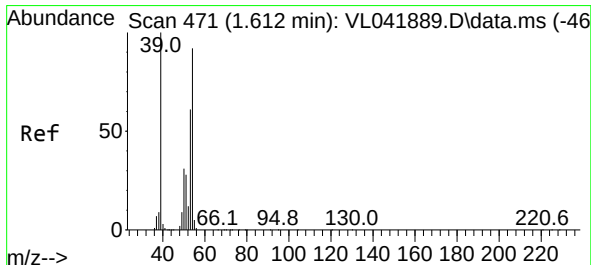
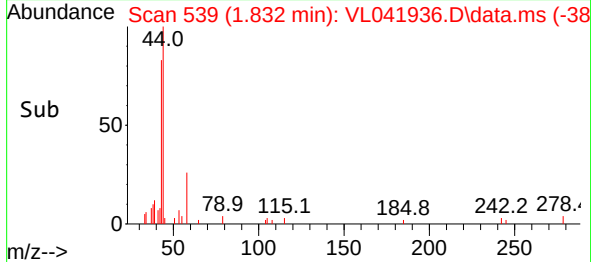
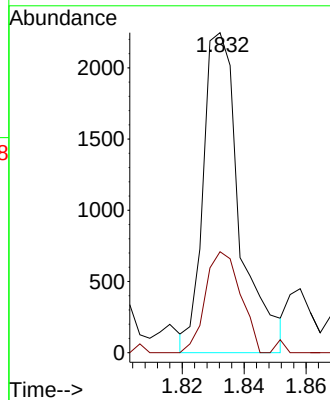
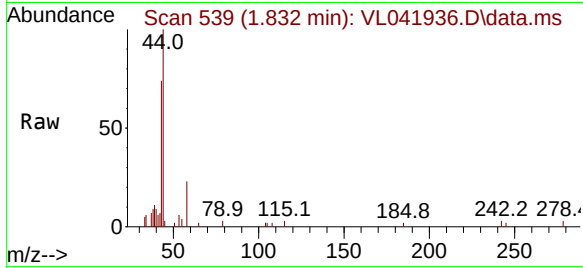
ClientSampleId :

Tgt Ion: 43 Resp: 1840

Ion Ratio Lower Upper

43 100

58 35.1 21.9 32.9#



#16

1,3-Butadiene

Concen: 0.091 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.010 min

Lab File: VL041936.D

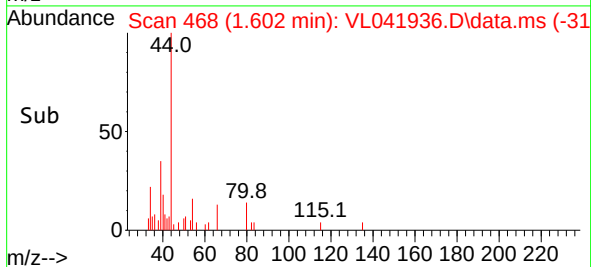
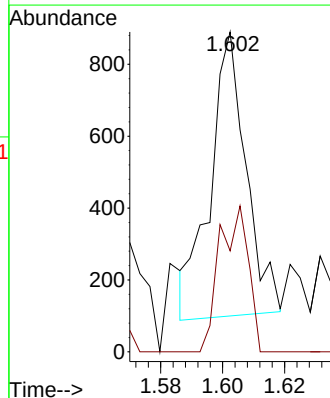
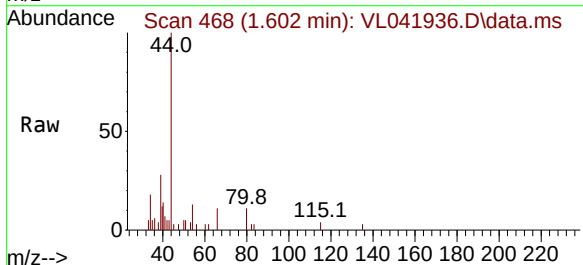
Acq: 21 Jan 2025 00:31

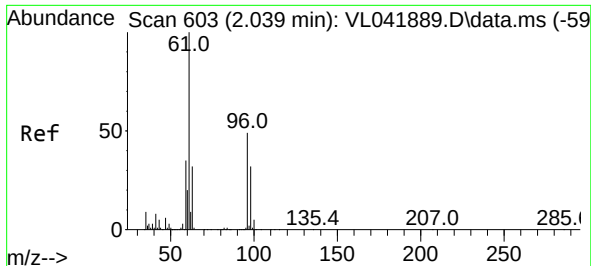
Tgt Ion: 39 Resp: 636

Ion Ratio Lower Upper

39 100

54 45.0 61.6 92.4#





#18

1,1-Dichloroethene

Concen: 0.043 ppbv

RT: 2.023 min Scan# 598

Delta R.T. -0.016 min

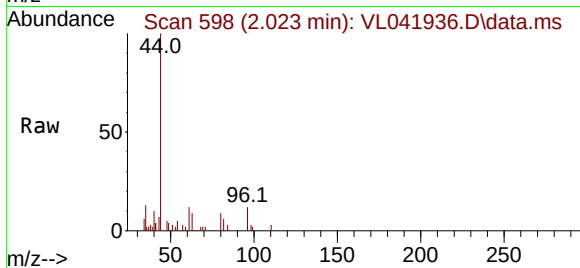
Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

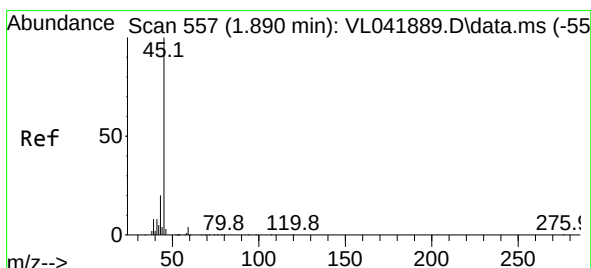
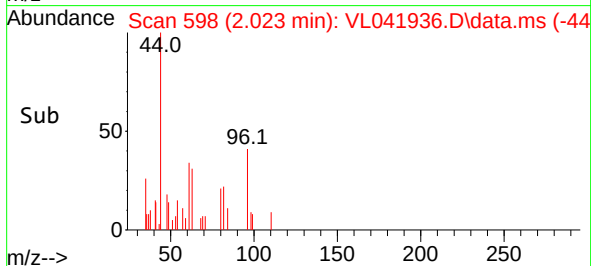
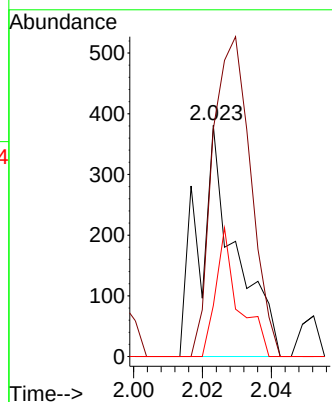
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 96	Resp: 282
Ion Ratio	Lower Upper
96	100
61	98.4 163.1 244.7#
98	22.0 52.7 79.1#



#19

Isopropyl Alcohol

Concen: 0.101 ppbv

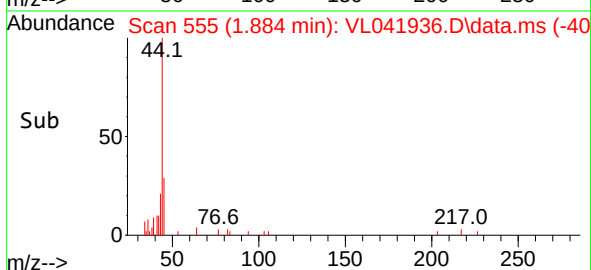
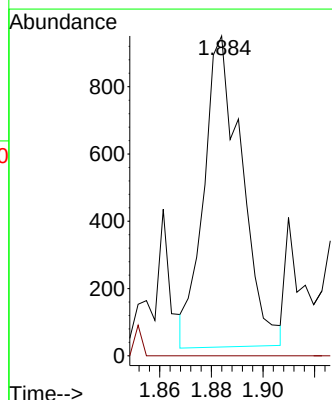
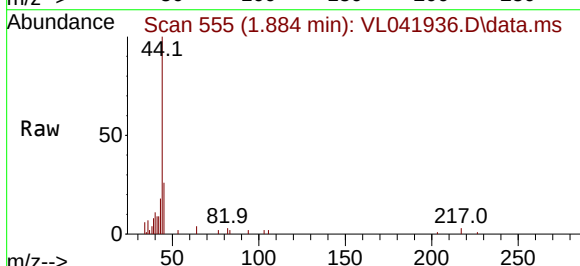
RT: 1.884 min Scan# 555

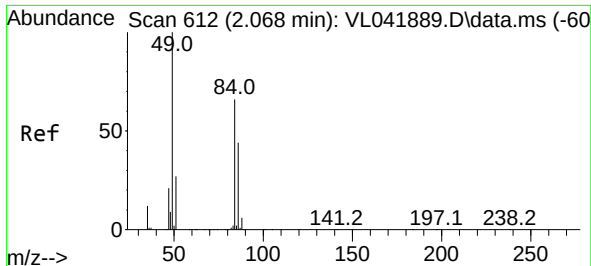
Delta R.T. -0.006 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

Tgt Ion: 45	Resp: 936
Ion Ratio	Lower Upper
45	100
58	0.0 35.0 52.6#

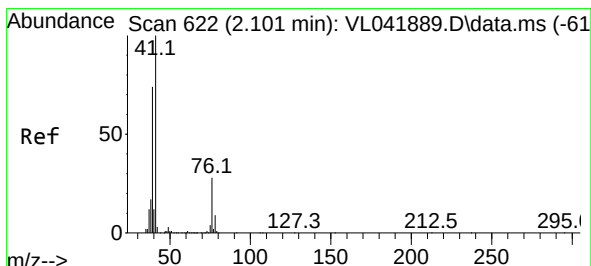
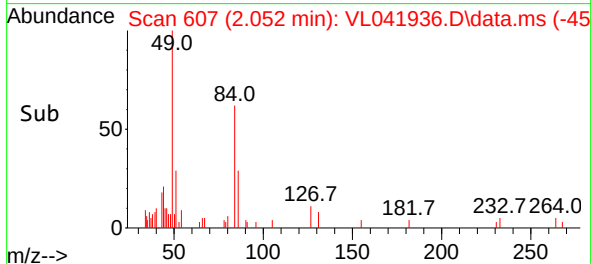
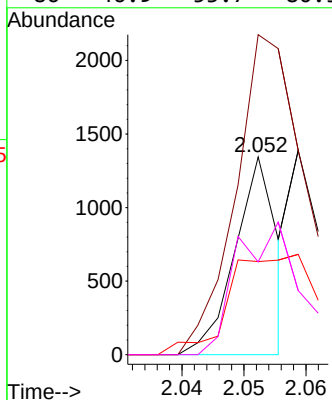
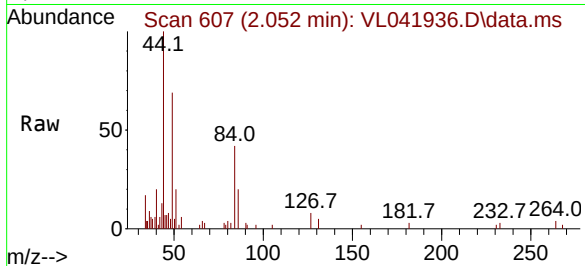




#20
Methylene Chloride
Concen: 0.102 ppbv
RT: 2.052 min Scan# 612
Delta R.T. -0.016 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

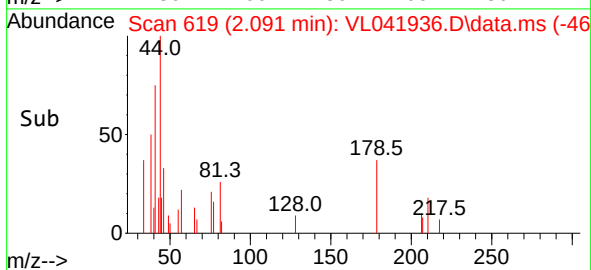
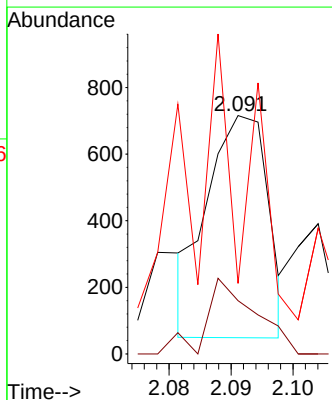
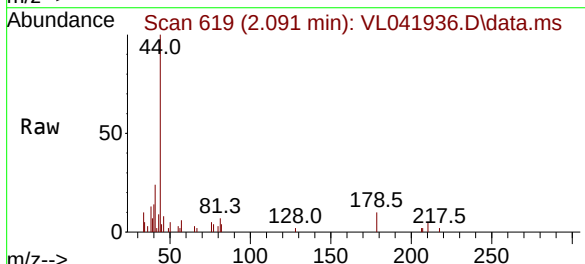
Instrument :
MSVOA_L
ClientSampleId :

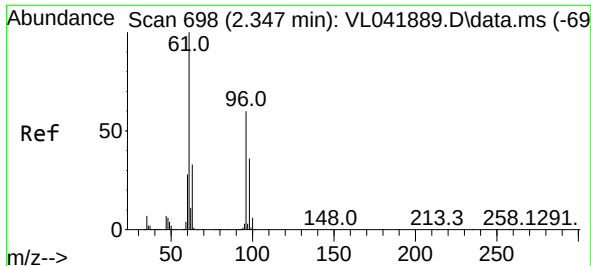
Tgt Ion:	84	Resp:	631
Ion	Ratio	Lower	Upper
84	100		
49	155.1	123.1	184.7
51	40.8	35.8	53.8
86	46.9	53.7	80.5



#21
Allyl Chloride
Concen: 0.042 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.010 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Tgt Ion:	41	Resp:	455
Ion	Ratio	Lower	Upper
41	100		
76	27.9	24.2	36.4
39	181.1	60.6	91.0

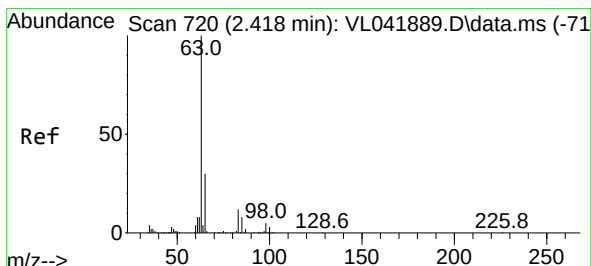
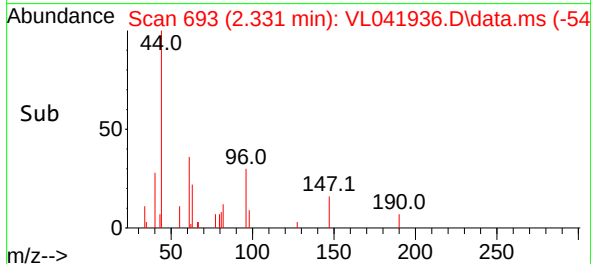
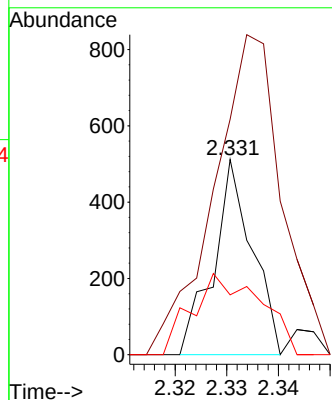
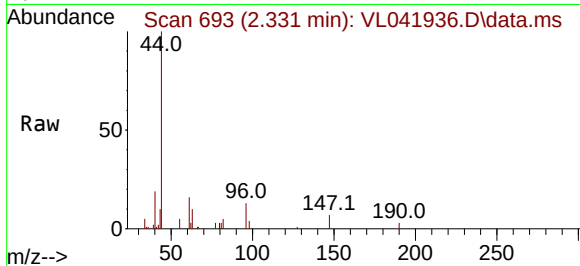




#22
trans-1,2-Dichloroethene
Concen: 0.036 ppbv
RT: 2.331 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

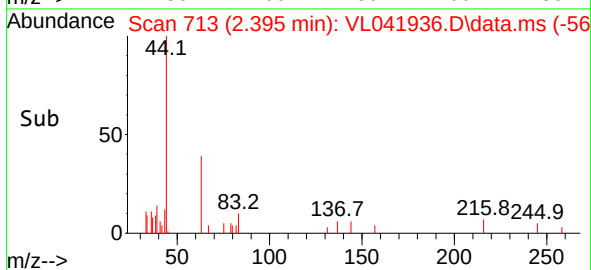
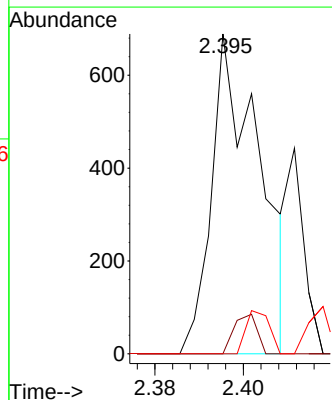
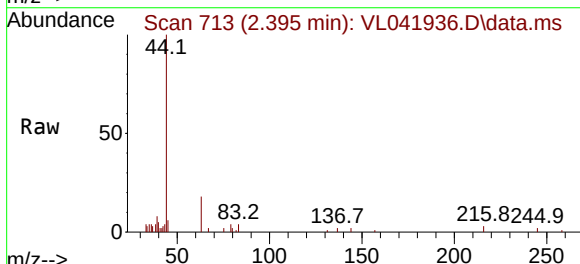
Instrument :
MSVOA_L
ClientSampleId :

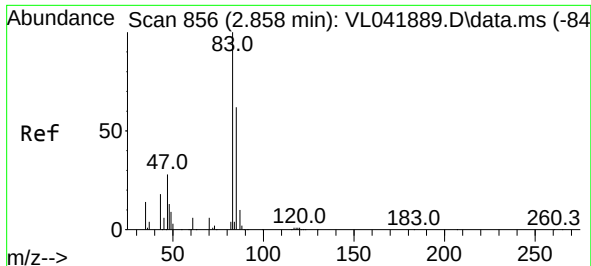
Tgt Ion: 96 Resp: 267
Ion Ratio Lower Upper
96 100
61 88.1 134.5 201.7#
98 9.8 48.9 73.3#



#24
1,1-Dichloroethane
Concen: 0.036 ppbv
RT: 2.395 min Scan# 713
Delta R.T. -0.023 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Tgt Ion: 63 Resp: 516
Ion Ratio Lower Upper
63 100
98 0.0 2.6 7.8#
100 0.0 1.4 4.2#





#29

Chloroform

Concen: 0.041 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.019 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

Instrument :

MSVOA_L

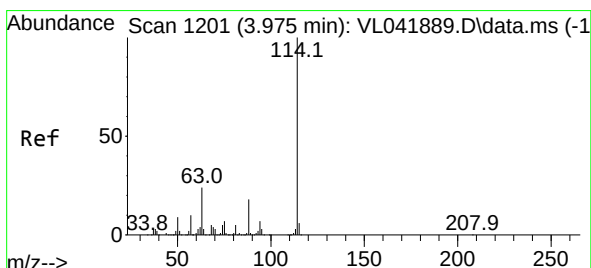
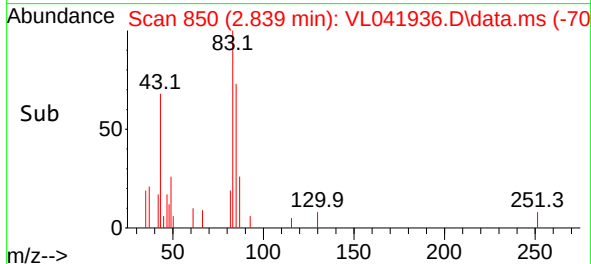
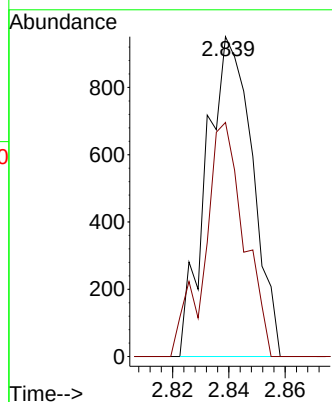
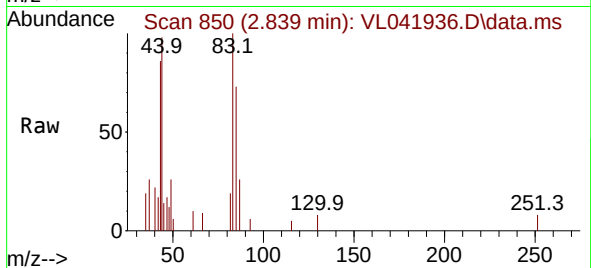
ClientSampleId :

Tgt Ion: 83 Resp: 1083

Ion Ratio Lower Upper

83 100

85 73.2 50.1 75.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.032 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

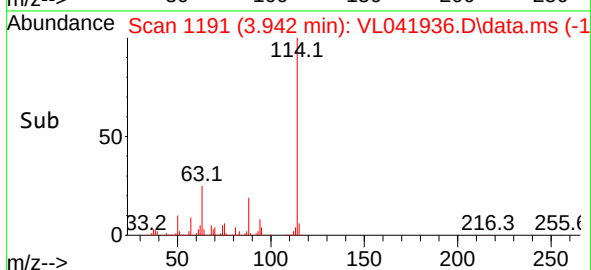
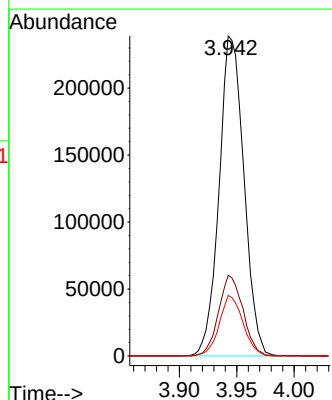
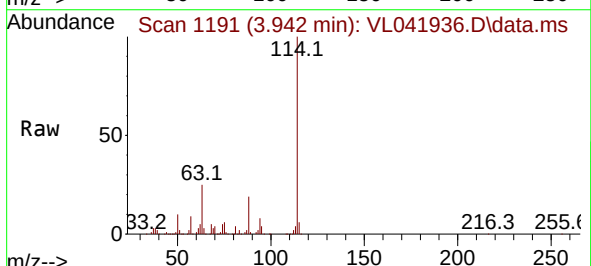
Tgt Ion:114 Resp: 359691

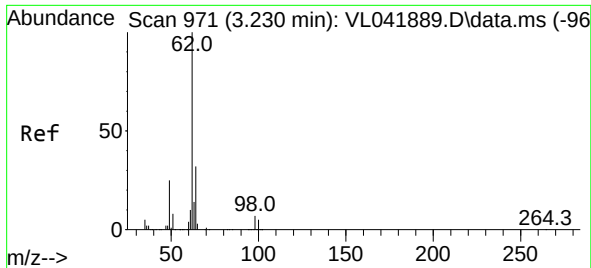
Ion Ratio Lower Upper

114 100

63 24.9 19.8 29.6

88 18.0 14.4 21.6





#37

1,2-Dichloroethane

Concen: 0.043 ppbv

RT: 3.211 min Scan# 90

Delta R.T. -0.019 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

Instrument :

MSVOA_L

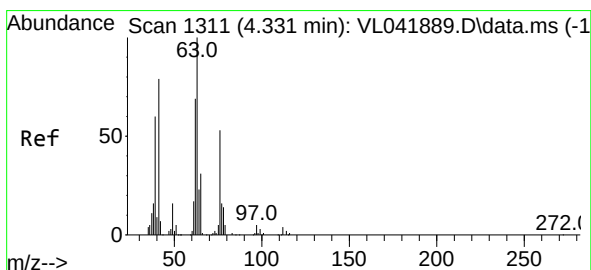
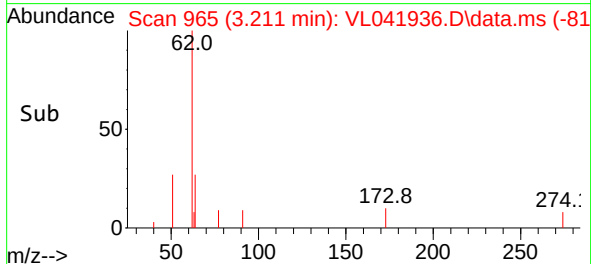
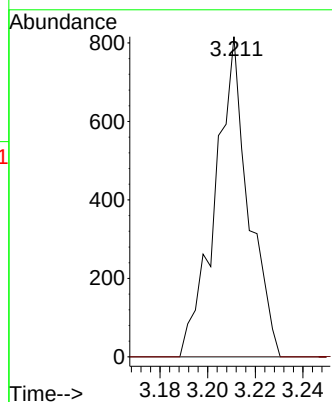
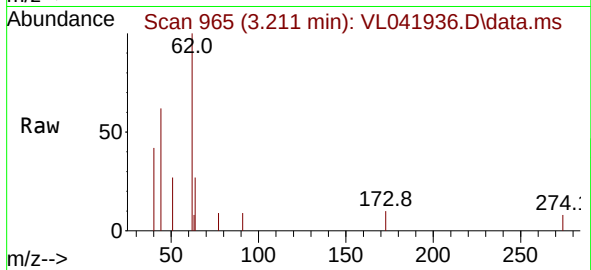
ClientSampleId :

Tgt Ion: 62 Resp: 796

Ion Ratio Lower Upper

62 100

98 0.0 5.4 8.0#



#39

1,2-Dichloropropane

Concen: 7.722 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.388 min

Lab File: VL041936.D

Acq: 21 Jan 2025 00:31

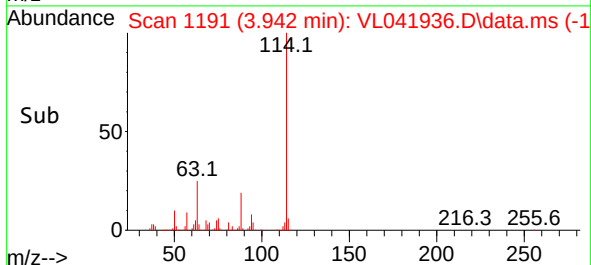
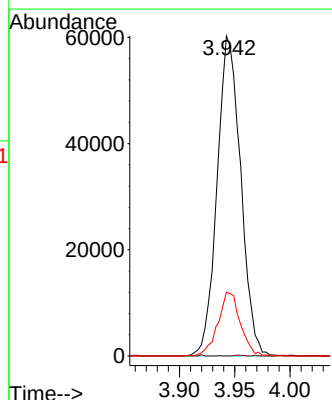
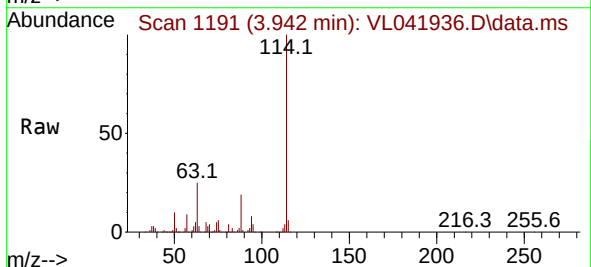
Tgt Ion: 63 Resp: 89361

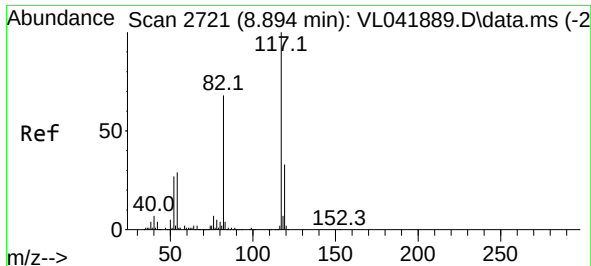
Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 19.9 55.4 83.2#

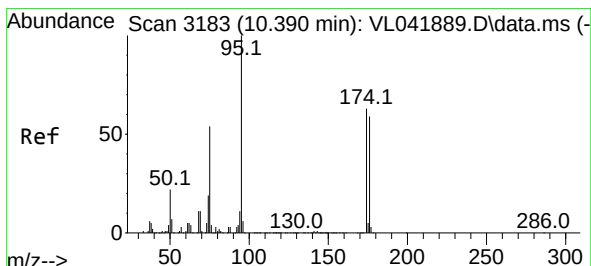
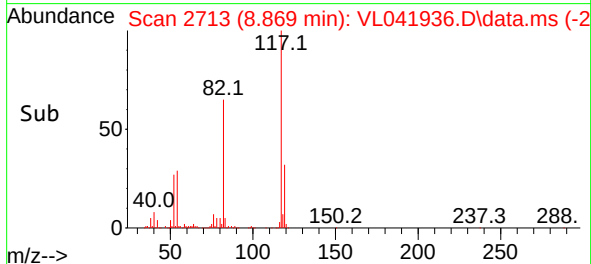
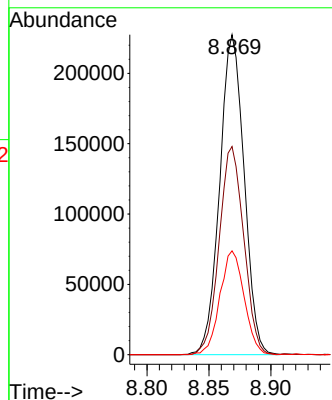
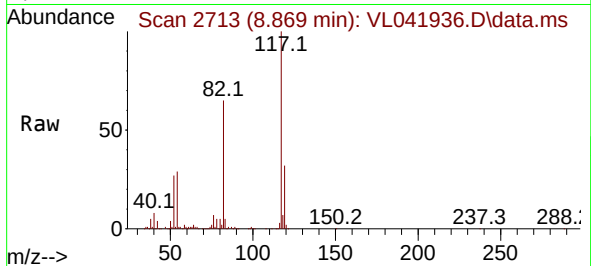




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 312645
Ion Ratio Lower Upper
117 100
82 65.5 54.2 81.4
119 32.4 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.866 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041936.D
Acq: 21 Jan 2025 00:31

Tgt Ion: 95 Resp: 242943
Ion Ratio Lower Upper
95 100
174 57.9 49.0 73.4
175 4.3 3.8 5.8

