

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041971.D
 Acq On : 03 Feb 2025 21:01
 Operator : SY/MD
 Sample : Q1168-14 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 02:40:31 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)

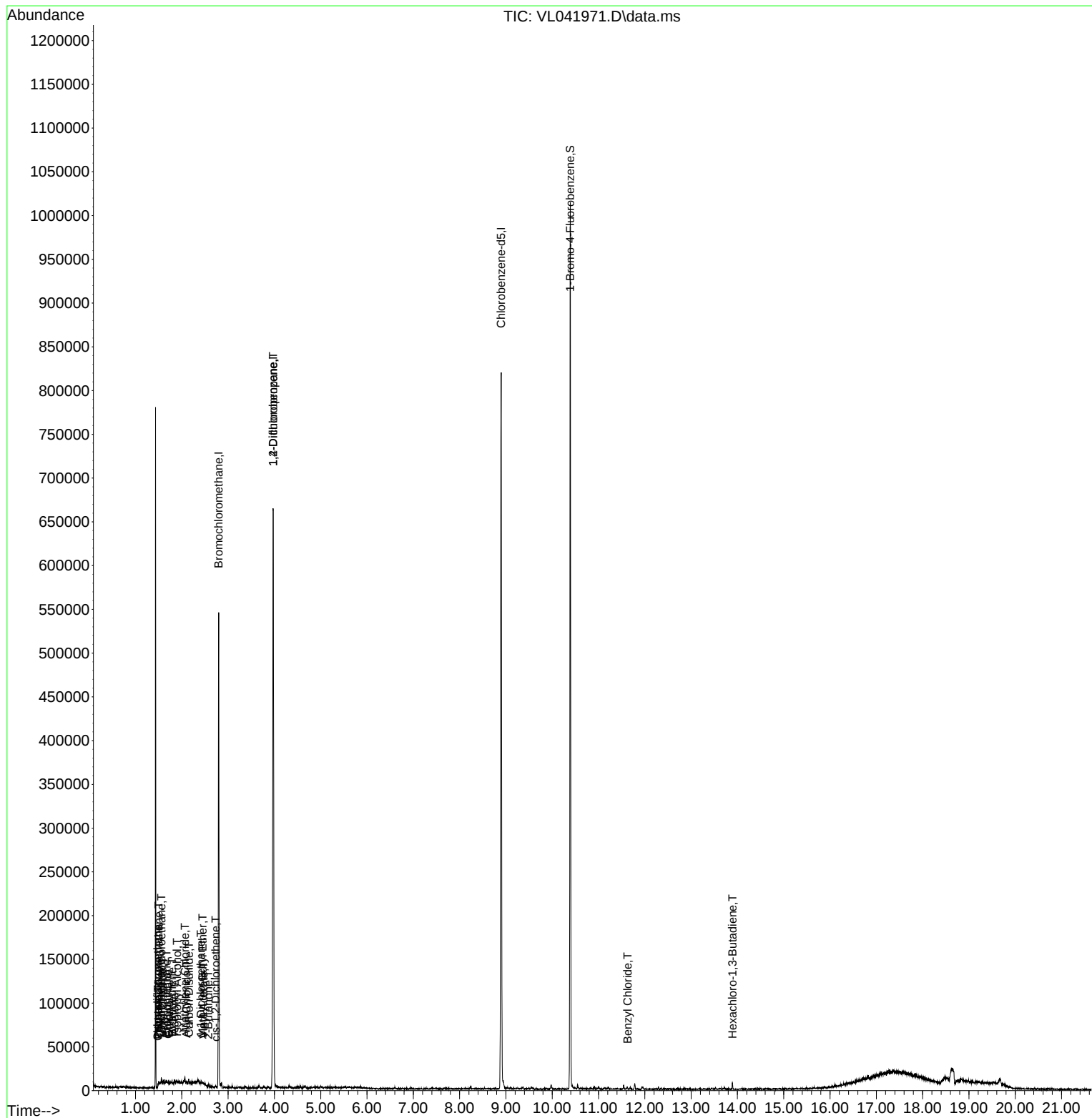
Internal Standards						
1) Bromochloromethane	2.797	49	148103	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	388505	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336885	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	248035	9.348	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	752	0.037	ppbv #	85
3) Chlorodifluoromethane	1.479	51	829	0.039	ppbv	92
4) Chloromethane	1.534	50	578	0.076	ppbv #	85
5) Vinyl Chloride	1.586	62	312	0.041	ppbv #	42
6) Bromomethane	1.673	94	312	0.085	ppbv	83
7) Chloroethane	1.709	64	134	0.045	ppbv #	74
8) Dichlorotetrafluoroethane	1.557	85	572	0.032	ppbv	85
9) Propene	1.486	41	487	0.056	ppbv #	67
13) Ethanol	1.725	45	242	0.380	ppbv	90
14) Bromoethene	1.790	108	211	0.035	ppbv #	52
15) Acetone	1.842	43	2089	0.117	ppbv #	75
19) Isopropyl Alcohol	1.897	45	1014	0.096	ppbv #	32
20) Methylene Chloride	2.068	84	1191	0.169	ppbv #	71
21) Allyl Chloride	2.101	41	486	0.039	ppbv #	1
23) Vinyl Acetate	2.473	43	611	0.069	ppbv #	83
24) 1,1-Dichloroethane	2.415	63	748	0.046	ppbv #	87
27) Carbon Disulfide	2.156	76	671	0.036	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	553	0.038	ppbv #	46
31) cis-1,2-Dichloroethene	2.732	61	652	0.033	ppbv #	65
34) 2-Butanone	2.573	43	1181	0.048	ppbv	100
39) 1,2-Dichloropropane	3.975	63	95567	7.646	ppbv #	21
66) Benzyl Chloride	11.629	91	113	0.031	ppbv #	66
78) Hexachloro-1,3-Butadiene	13.892	225	882	0.038	ppbv	88

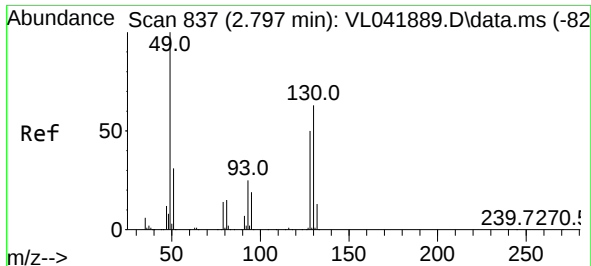
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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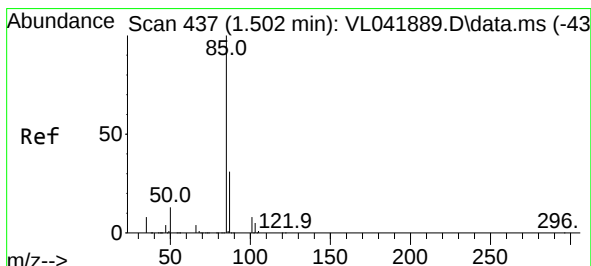
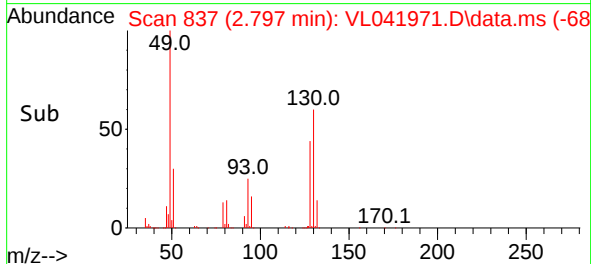
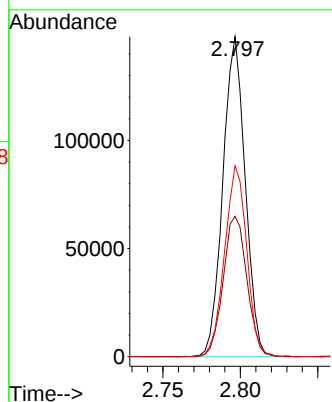
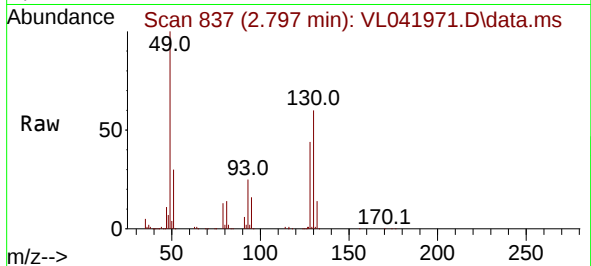




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

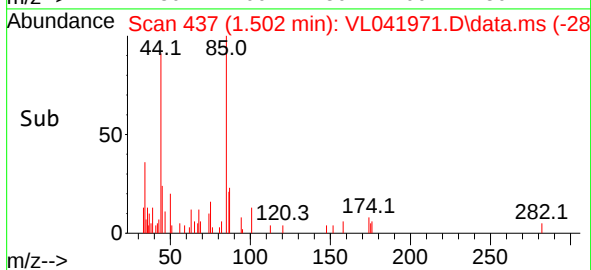
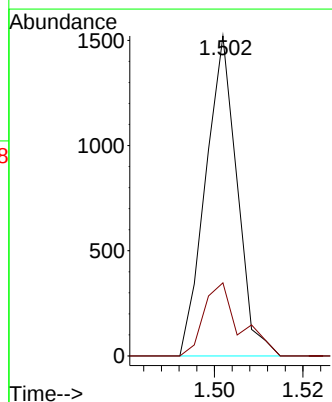
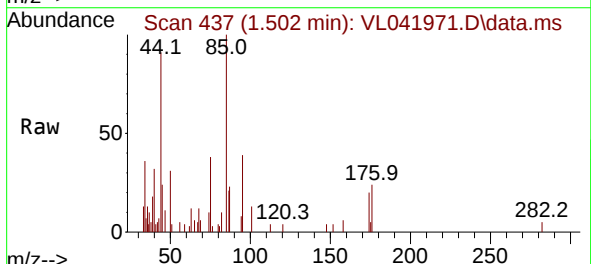
Instrument :
MSVOA_L
ClientSampleId :

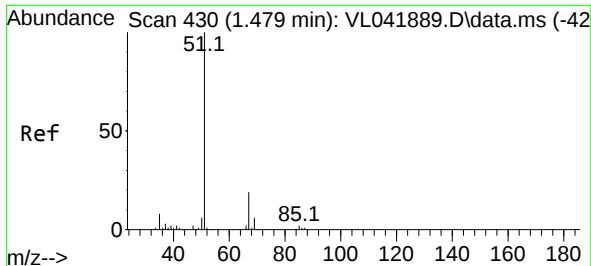
Tgt Ion: 49 Resp: 148103
Ion Ratio Lower Upper
49 100
128 46.7 24.3 73.0
130 59.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 85 Resp: 752
Ion Ratio Lower Upper
85 100
87 22.8 24.9 37.3#

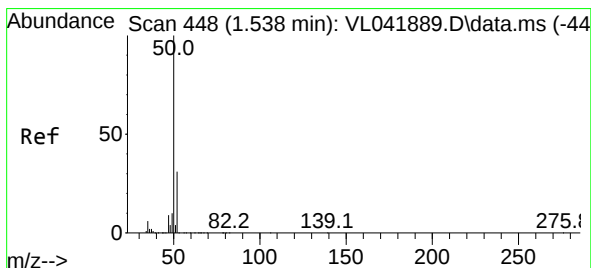
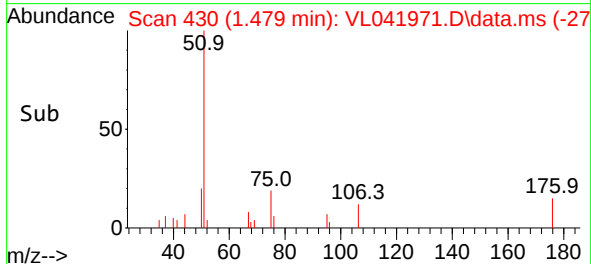
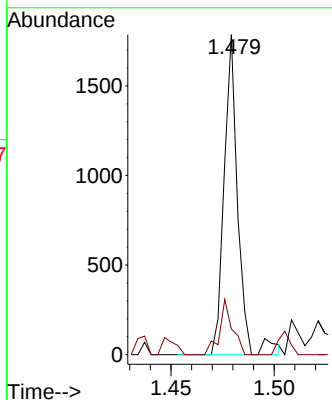
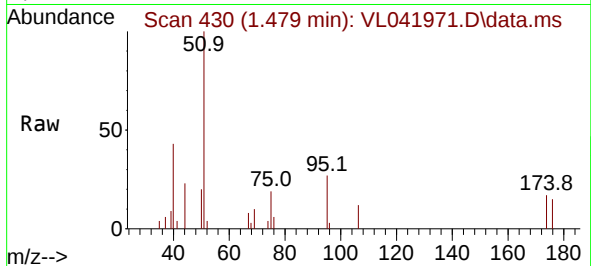




#3
Chlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

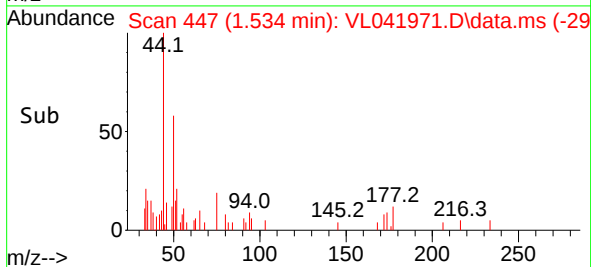
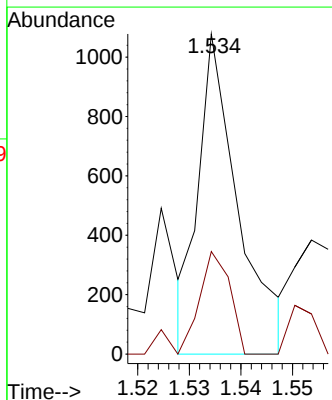
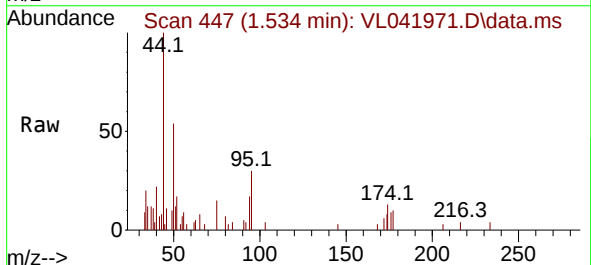
Instrument :
MSVOA_L
ClientSampleId :

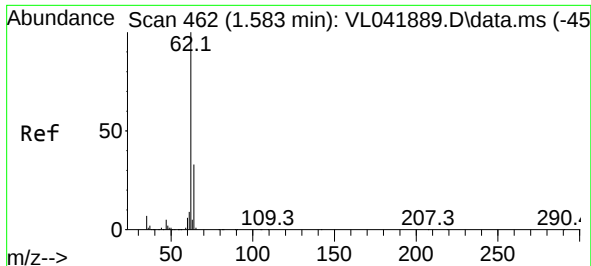
Tgt Ion: 51 Resp: 829
Ion Ratio Lower Upper
51 100
67 22.3 15.0 22.4



#4
Chloromethane
Concen: 0.076 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 38.9 24.6 36.8#

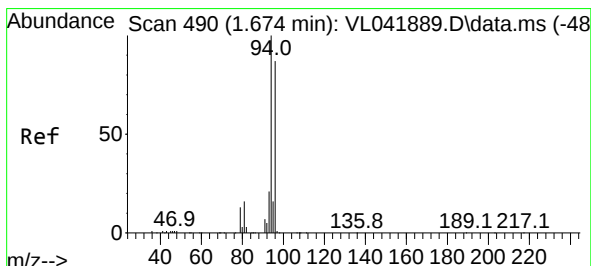
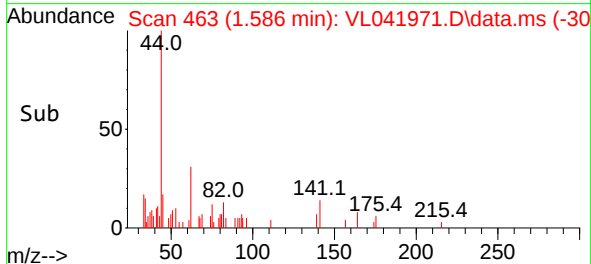
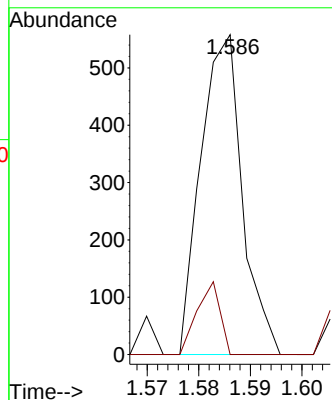
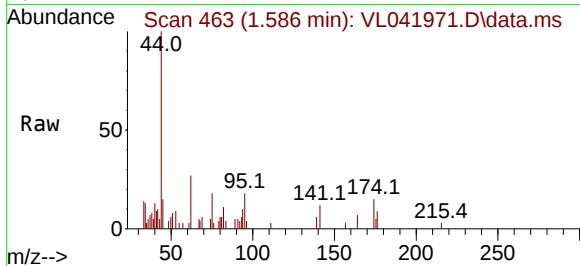




#5
 Vinyl Chloride
 Concen: 0.041 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. 0.003 min
 Lab File: VL041971.D
 Acq: 03 Feb 2025 21:01

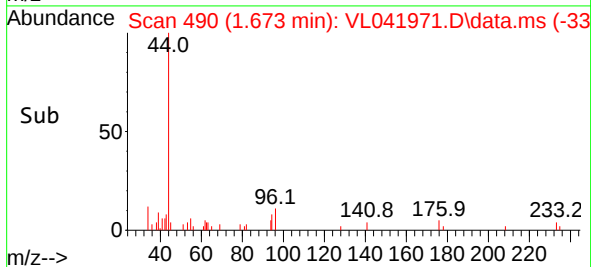
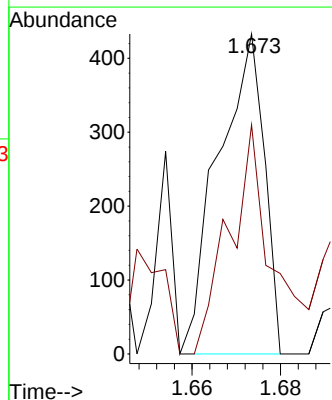
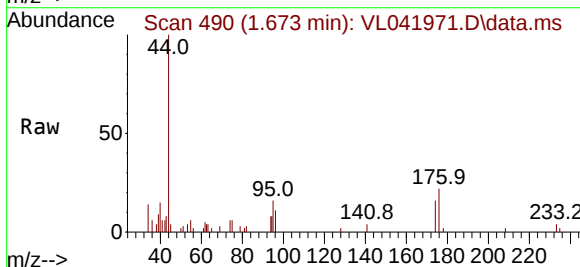
Instrument :
 MSVOA_L
 ClientSampleId :

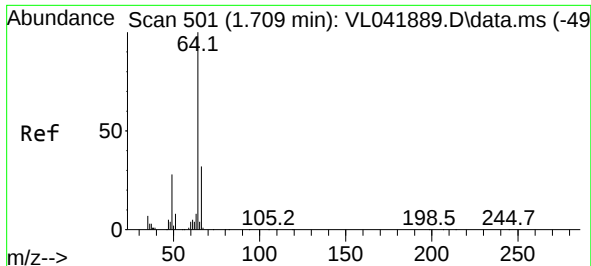
Tgt Ion: 62 Resp: 312
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.1 39.1#



#6
 Bromomethane
 Concen: 0.085 ppbv
 RT: 1.673 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL041971.D
 Acq: 03 Feb 2025 21:01

Tgt Ion: 94 Resp: 312
 Ion Ratio Lower Upper
 94 100
 96 71.6 69.5 104.3

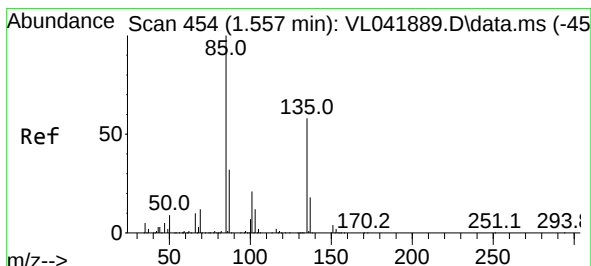
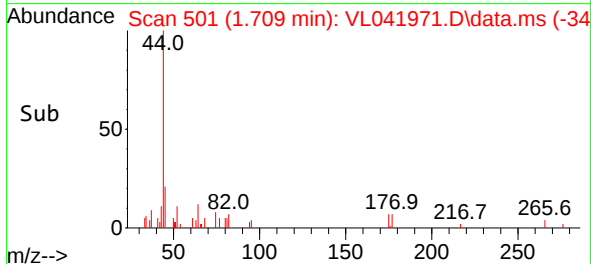
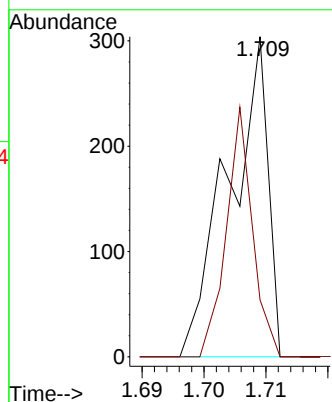
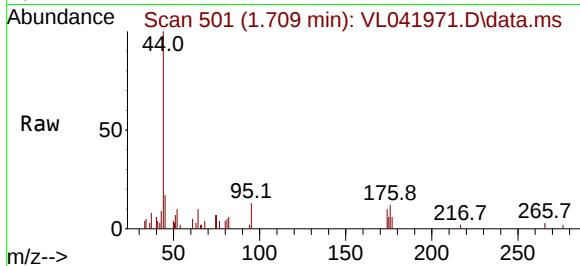




#7
Chloroethane
Concen: 0.045 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

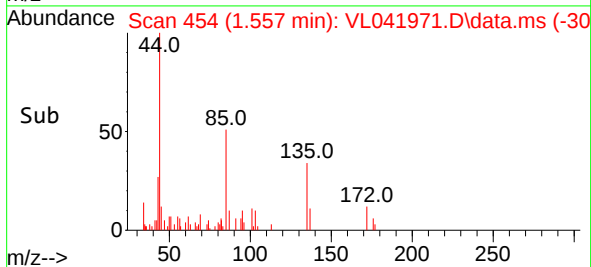
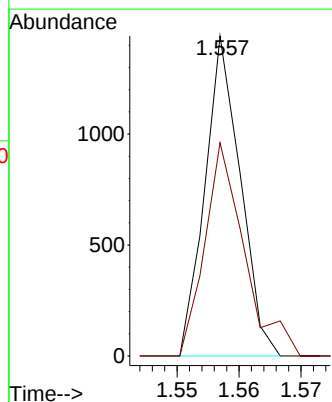
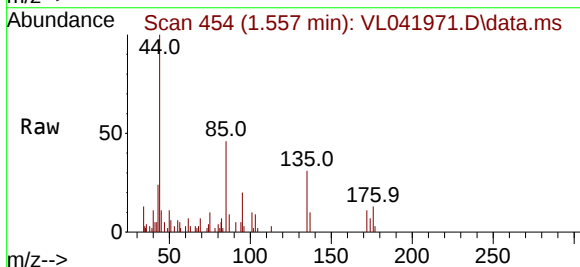
Instrument :
MSVOA_L
ClientSampleId :

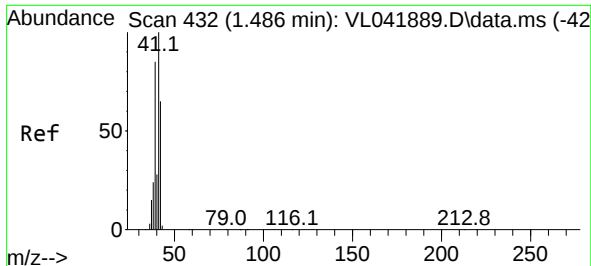
Tgt Ion: 64 Resp: 134
Ion Ratio Lower Upper
64 100
66 17.8 25.7 38.5#



#8
Dichlorotetrafluoroethane
Concen: 0.032 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 85 Resp: 572
Ion Ratio Lower Upper
85 100
135 74.1 50.0 75.0





#9

Propene

Concen: 0.056 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041971.D

Acq: 03 Feb 2025 21:01

Instrument :

MSVOA_L

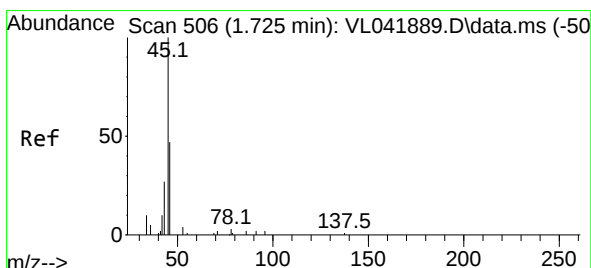
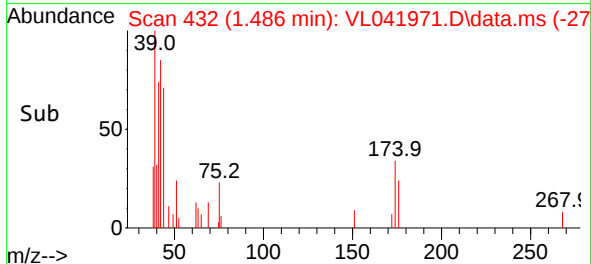
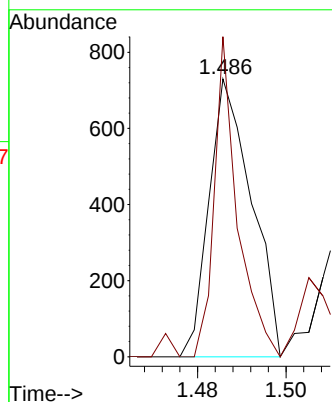
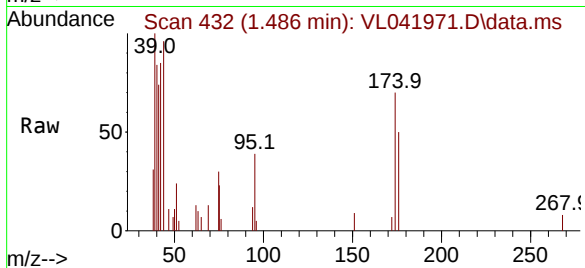
ClientSampleId :

Tgt Ion: 41 Resp: 487

Ion Ratio Lower Upper

41 100

42 91.4 52.0 78.0#



#13

Ethanol

Concen: 0.380 ppbv

RT: 1.725 min Scan# 506

Delta R.T. -0.000 min

Lab File: VL041971.D

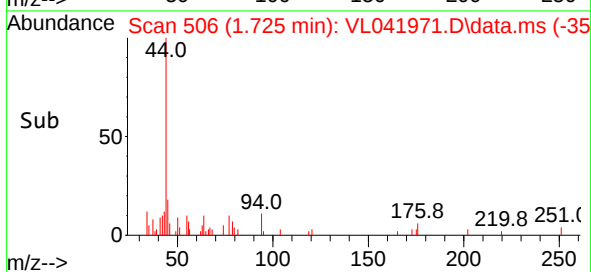
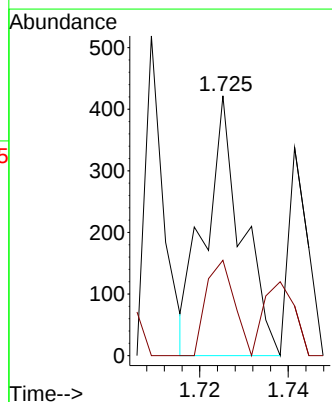
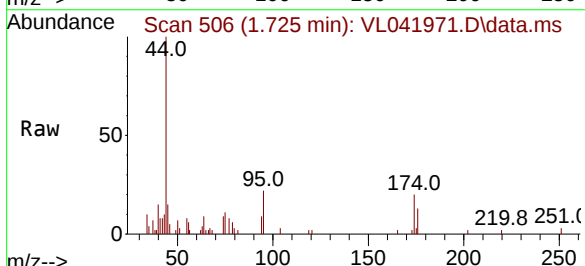
Acq: 03 Feb 2025 21:01

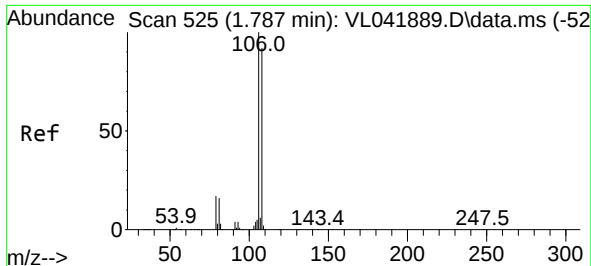
Tgt Ion: 45 Resp: 242

Ion Ratio Lower Upper

45 100

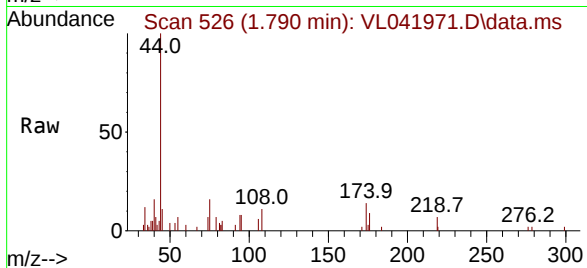
46 52.1 18.1 72.5



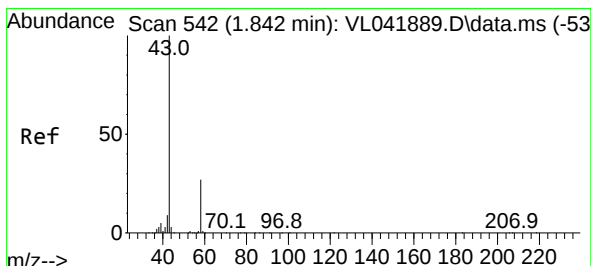
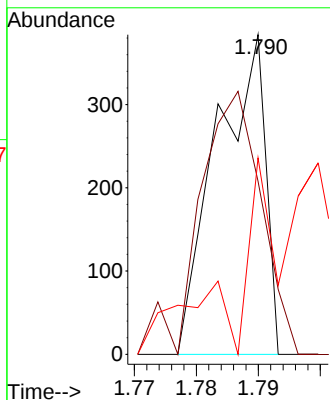
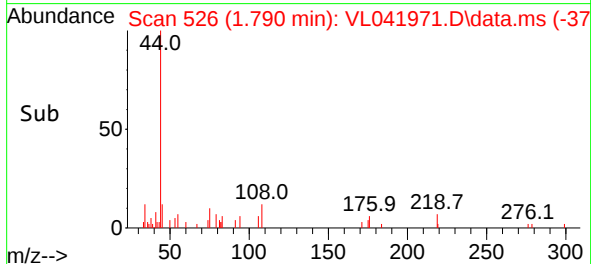


#14
Bromoethene
Concen: 0.035 ppbv
RT: 1.790 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :

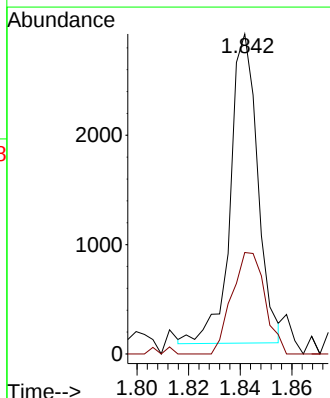
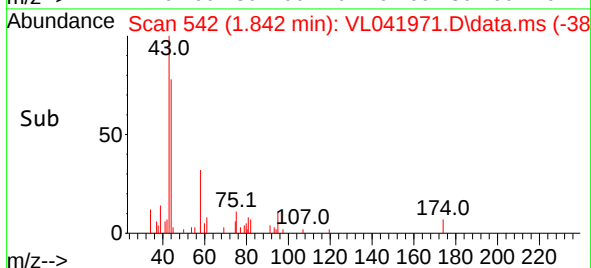
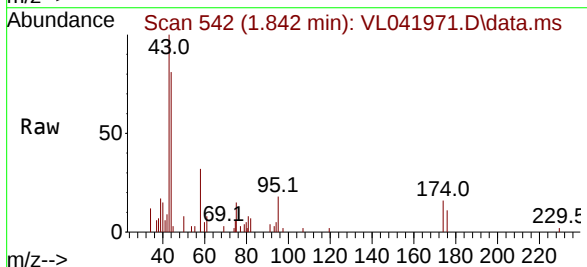


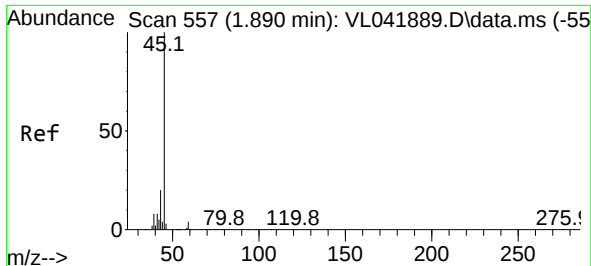
Tgt Ion:108 Resp: 211
Ion Ratio Lower Upper
108 100
106 103.8 85.5 128.3
79 155.9 15.3 22.9#



#15
Acetone
Concen: 0.117 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 43 Resp: 2089
Ion Ratio Lower Upper
43 100
58 40.5 21.9 32.9#

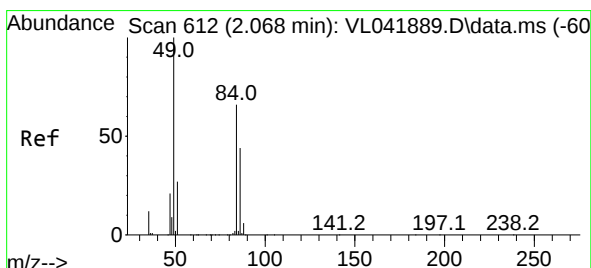
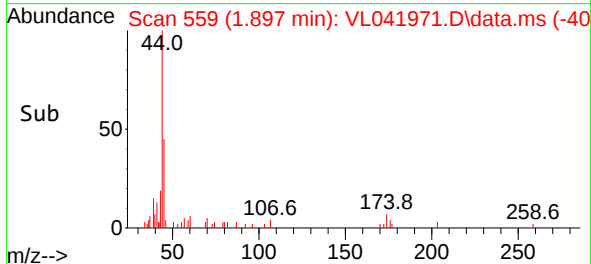
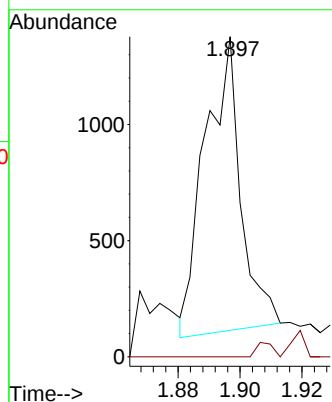
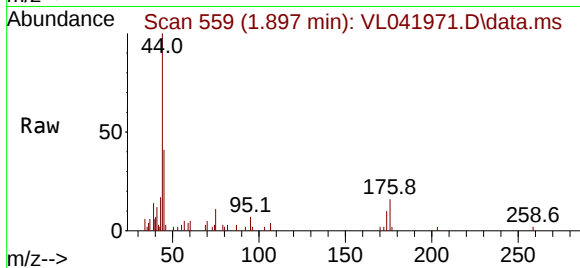




#19
Isopropyl Alcohol
Concen: 0.096 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

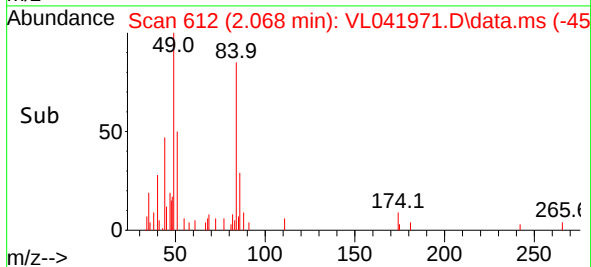
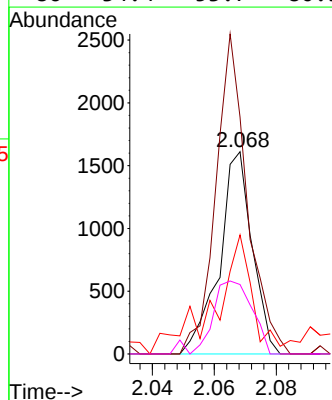
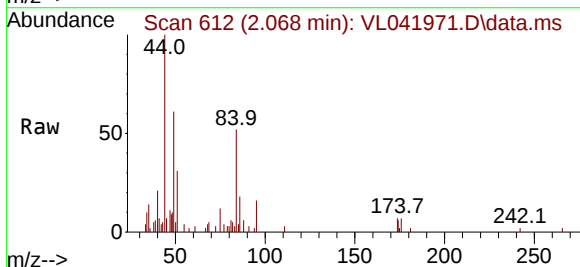
Instrument :
MSVOA_L
ClientSampleId :

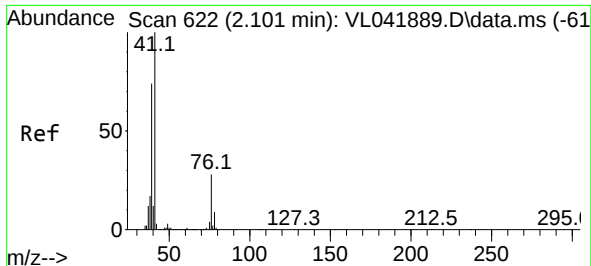
Tgt Ion: 45 Resp: 1014
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#



#20
Methylene Chloride
Concen: 0.169 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 84 Resp: 1191
Ion Ratio Lower Upper
84 100
49 117.1 123.1 184.7#
51 55.1 35.8 53.8#
86 34.4 53.7 80.5#

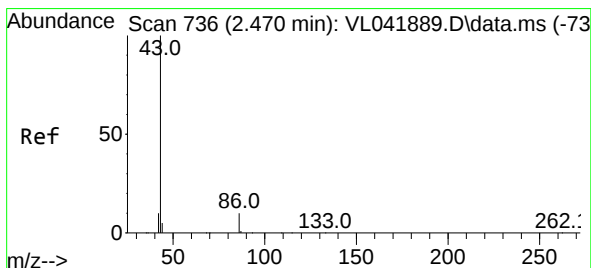
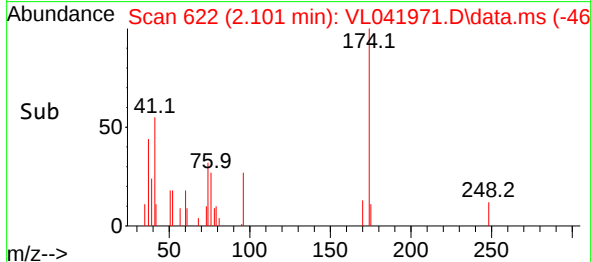
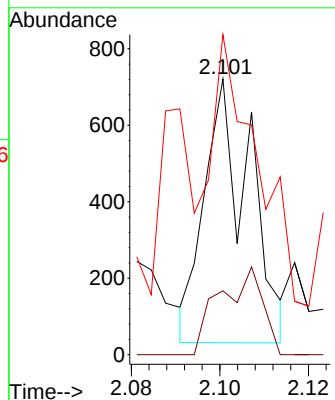
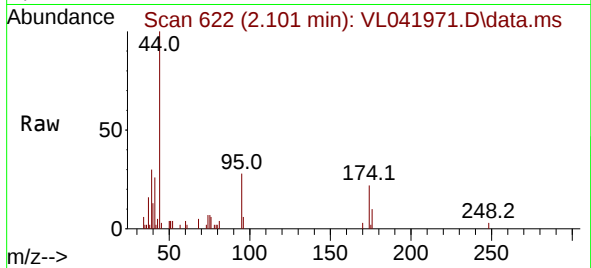




#21
 Allyl Chloride
 Concen: 0.039 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL041971.D
 Acq: 03 Feb 2025 21:01

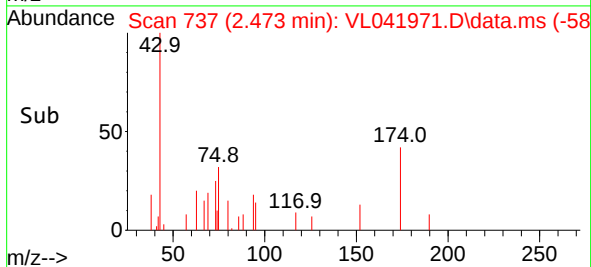
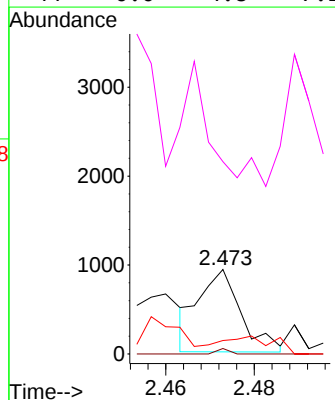
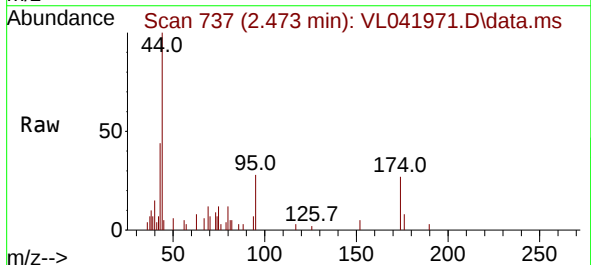
Instrument :
 MSVOA_L
 ClientSampleId :

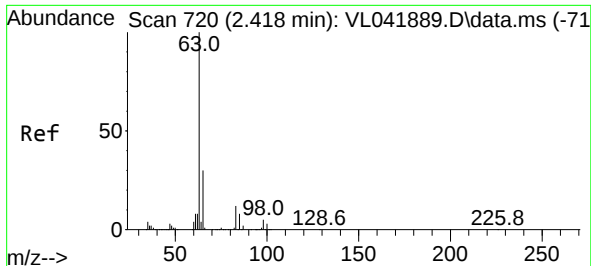
Tgt Ion: 41 Resp: 486
 Ion Ratio Lower Upper
 41 100
 76 31.7 24.2 36.4
 39 395.7 60.6 91.0#



#23
 Vinyl Acetate
 Concen: 0.069 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.003 min
 Lab File: VL041971.D
 Acq: 03 Feb 2025 21:01

Tgt Ion: 43 Resp: 611
 Ion Ratio Lower Upper
 43 100
 86 7.1 6.2 9.4
 42 0.0 8.5 12.7#
 44 0.0 4.8 7.2#

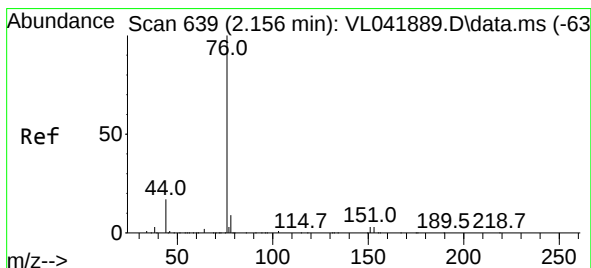
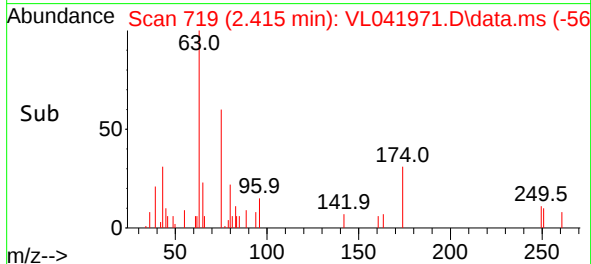
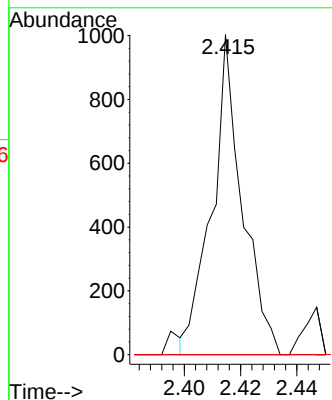
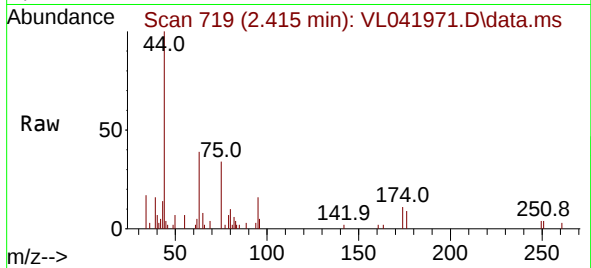




#24
1,1-Dichloroethane
Concen: 0.046 ppbv
RT: 2.415 min Scan# 719
Delta R.T. -0.003 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

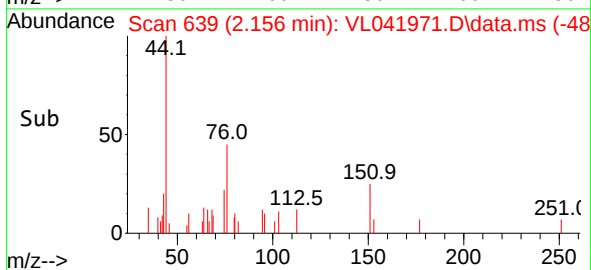
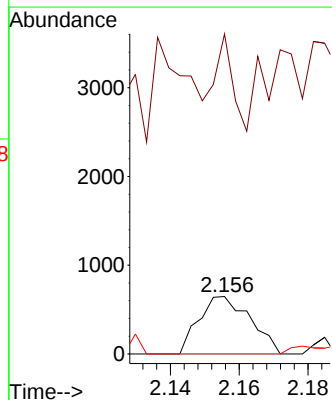
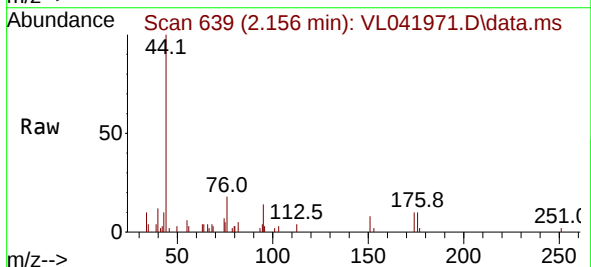
Instrument :
MSVOA_L
ClientSampleId :

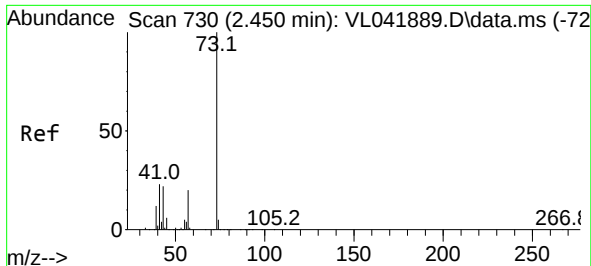
Tgt Ion: 63 Resp: 748
Ion Ratio Lower Upper
63 100
98 0.0 2.6 7.8#
100 0.0 1.4 4.2#



#27
Carbon Disulfide
Concen: 0.036 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 76 Resp: 671
Ion Ratio Lower Upper
76 100
44 661.0 15.4 23.0#
78 6.6 9.3 13.9#

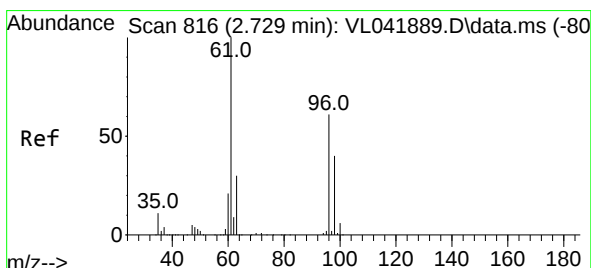
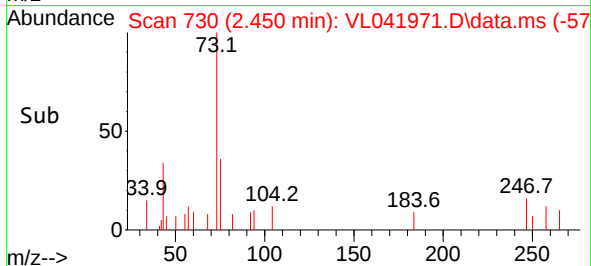
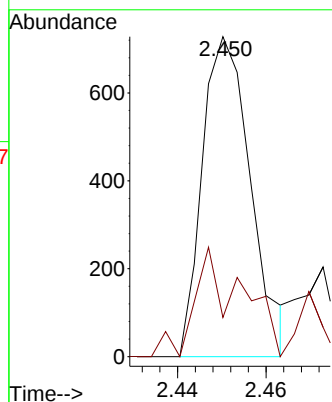
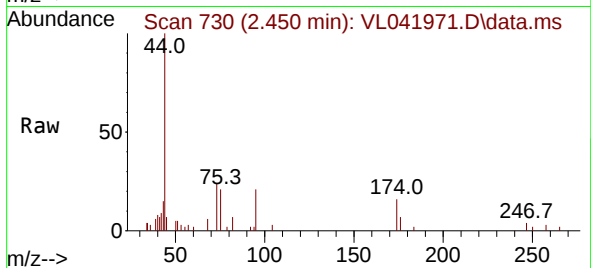




#28
Methyl tert-Butyl Ether
Concen: 0.038 ppbv
RT: 2.450 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

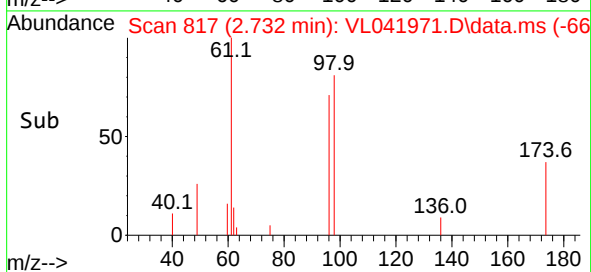
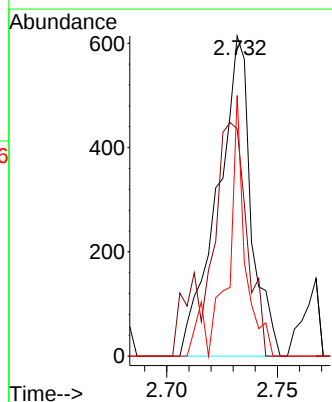
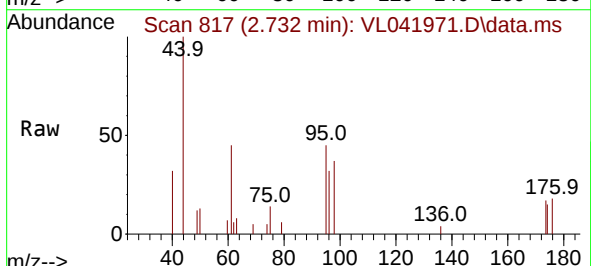
Instrument :
MSVOA_L
ClientSampleId :

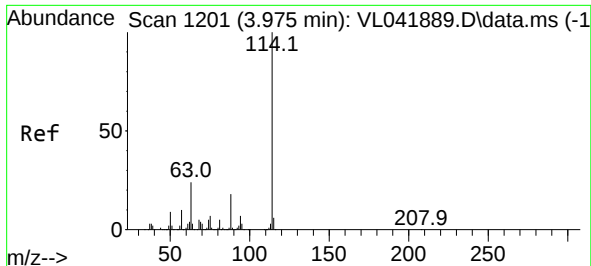
Tgt Ion: 73 Resp: 553
Ion Ratio Lower Upper
73 100
57 48.6 18.1 27.1#



#31
cis-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 2.732 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

Tgt Ion: 61 Resp: 652
Ion Ratio Lower Upper
61 100
96 71.0 48.7 73.1
98 81.4 31.6 47.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041971.D

Acq: 03 Feb 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

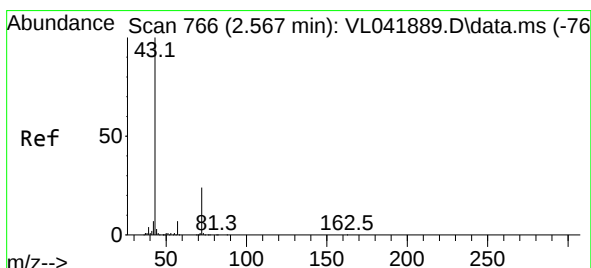
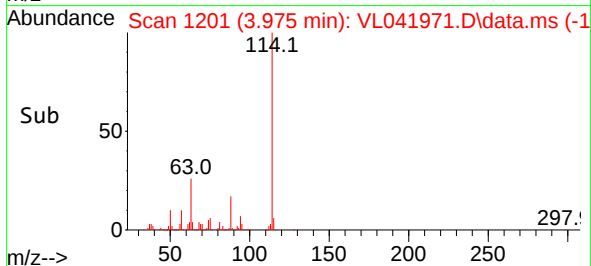
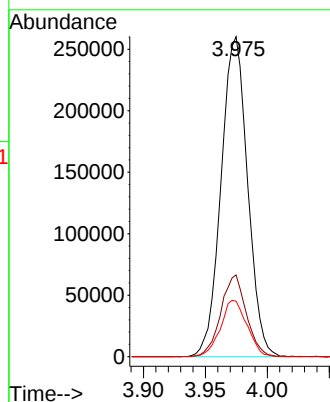
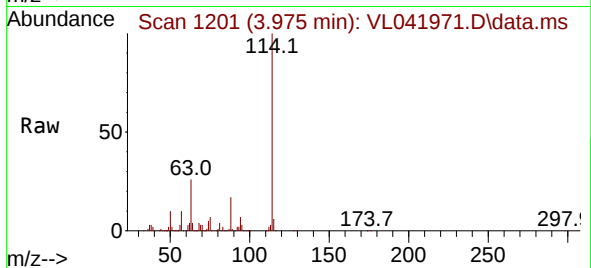
Tgt Ion:114 Resp: 388505

Ion Ratio Lower Upper

114 100

63 24.7 19.8 29.6

88 17.6 14.4 21.6



#34

2-Butanone

Concen: 0.048 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.006 min

Lab File: VL041971.D

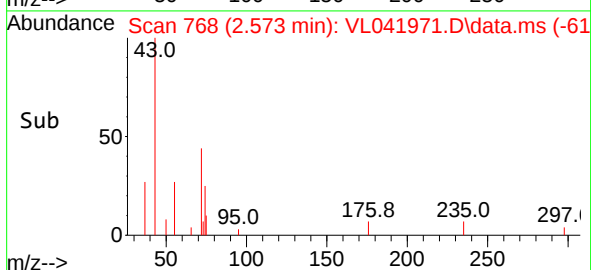
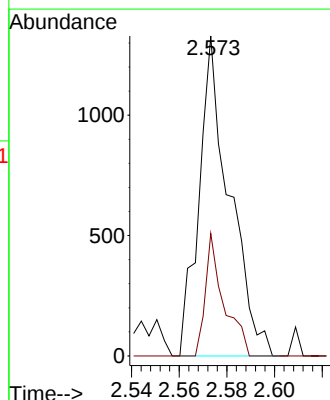
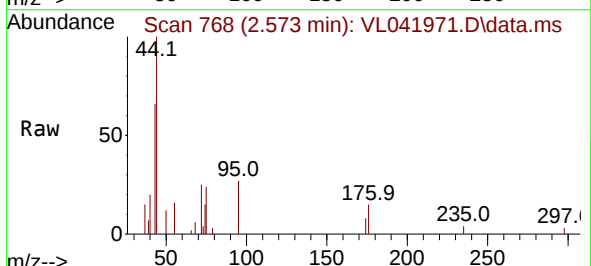
Acq: 03 Feb 2025 21:01

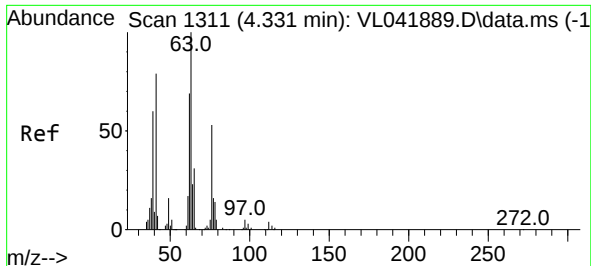
Tgt Ion: 43 Resp: 1181

Ion Ratio Lower Upper

43 100

72 23.2 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.646 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.356 min

Lab File: VL041971.D

Acq: 03 Feb 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

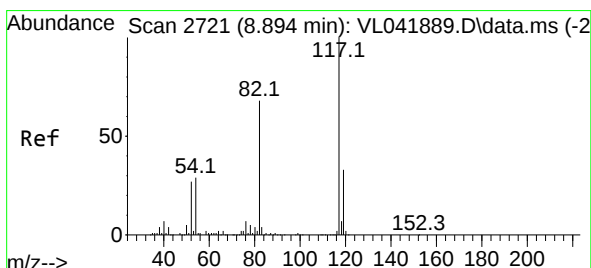
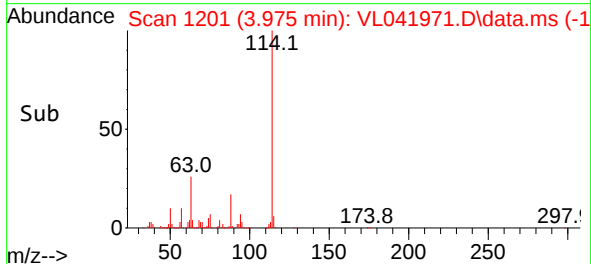
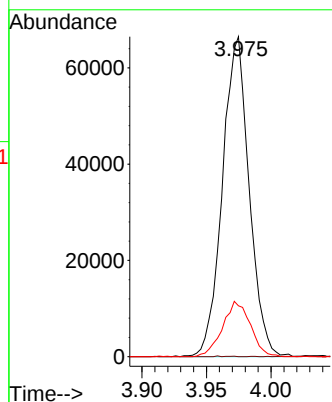
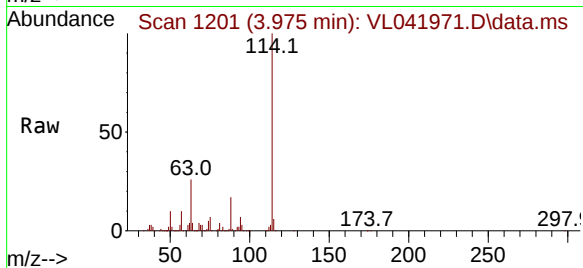
Tgt Ion: 63 Resp: 95567

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 15.9 55.4 83.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2722

Delta R.T. 0.003 min

Lab File: VL041971.D

Acq: 03 Feb 2025 21:01

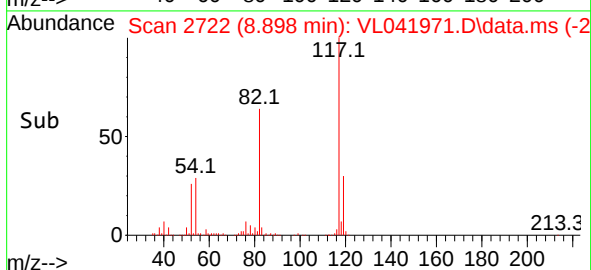
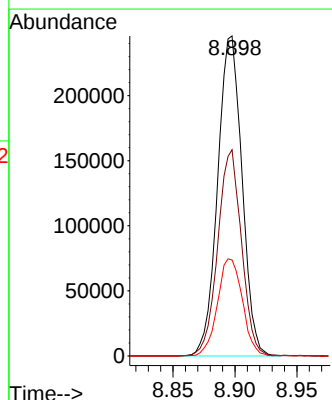
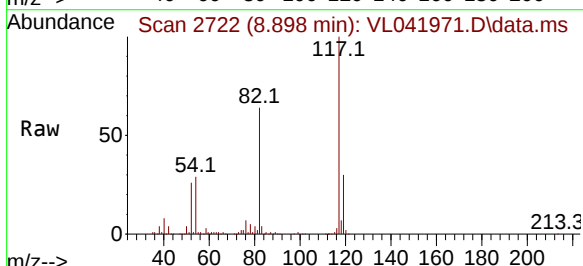
Tgt Ion: 117 Resp: 336885

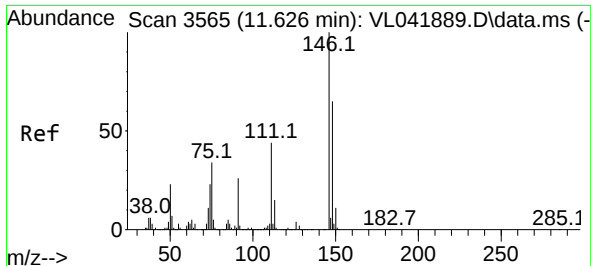
Ion Ratio Lower Upper

117 100

82 62.8 54.2 81.4

119 31.3 25.0 37.6

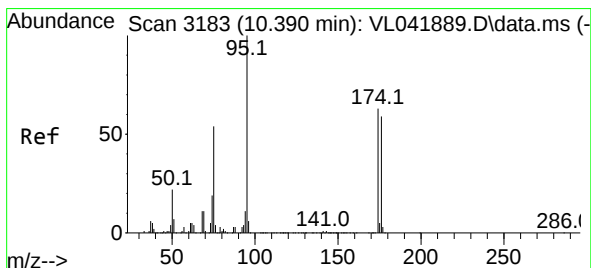
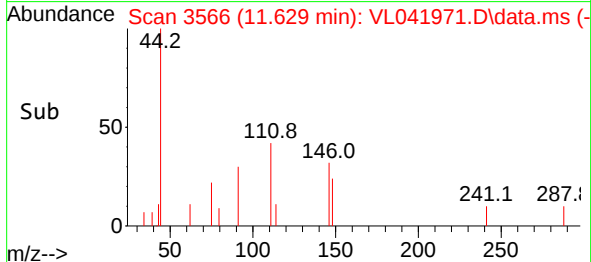
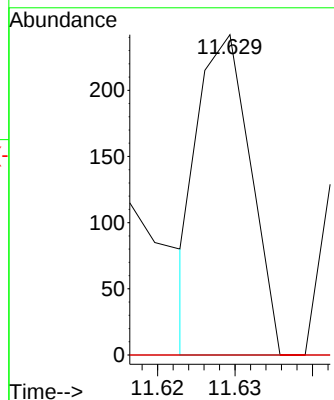
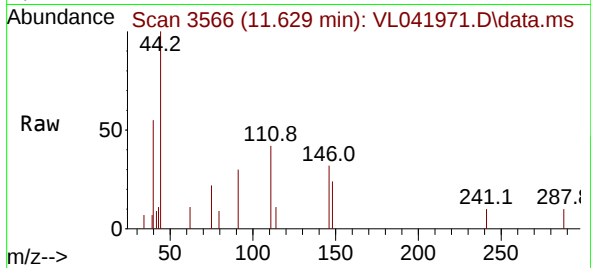




#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 11.629 min Scan# 313
Delta R.T. 0.003 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

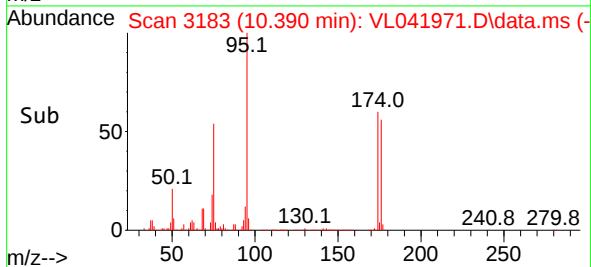
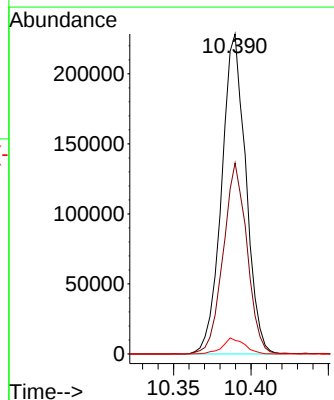
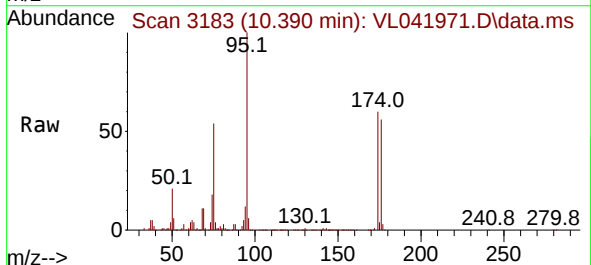
Instrument :
MSVOA_L
ClientSampleId :

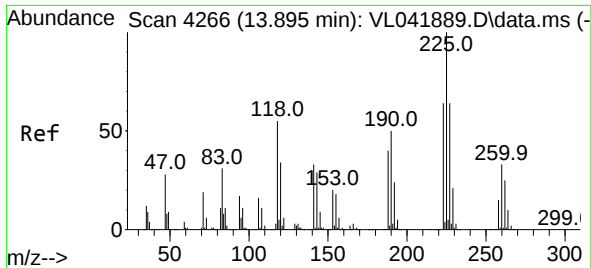
Tgt Ion: 91 Resp: 113
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.3 6.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.348 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.000 min
Lab File: VL041971.D
Acq: 03 Feb 2025 21:01

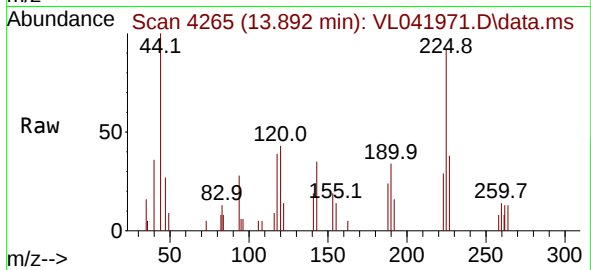
Tgt Ion: 95 Resp: 248035
Ion Ratio Lower Upper
95 100
174 58.7 49.0 73.4
175 4.6 3.8 5.8





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.038 ppbv
 RT: 13.892 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041971.D
 Acq: 03 Feb 2025 21:01

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	225	Resp:	882
Ion	Ratio	Lower	Upper
225	100		
223	54.0	50.8	76.2
227	53.2	50.3	75.5

