

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042817.D
 Acq On : 04 Aug 2025 21:57
 Operator : SY/MD
 Sample : Q2750-06DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:13:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	149464	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	378209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	324186	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	253708	9.882	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	686	0.035	ppbv #	1
3) Chlorodifluoromethane	1.473	51	109538	4.255	ppbv	99
4) Chloromethane	1.531	50	518	0.065	ppbv #	60
6) Bromomethane	1.674	94	117	0.038	ppbv #	1
7) Chloroethane	1.703	64	67	0.022	ppbv #	45
9) Propene	1.557	41	32759	3.501	ppbv	92
13) Ethanol	1.722	45	223366	326.729	ppbv	89
15) Acetone	1.835	43	166487	8.067	ppbv	99
16) 1,3-Butadiene	1.557	39	15444	1.754	ppbv #	17
17) tert-Butyl alcohol	1.894	59	527790	28.355	ppbv #	94
19) Isopropyl Alcohol	1.894	45	4596186	419.069	ppbv #	40
20) Methylene Chloride	2.065	84	2281	0.351	ppbv #	40
21) Allyl Chloride	1.894	41	1204148	94.666	ppbv #	84
25) Ethyl Acetate	2.839	43	8153	0.178	ppbv #	68
26) Hexane	2.826	57	829	0.041	ppbv #	1
27) Carbon Disulfide	2.153	76	2609	0.152	ppbv #	57
34) 2-Butanone	2.560	43	1720	0.064	ppbv	96
39) 1,2-Dichloropropane	3.959	63	96805	7.317	ppbv #	20
66) Benzyl Chloride	11.549	91	125	0.028	ppbv #	65
79) Naphthalene	13.445	128	24	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.436	142	39	1.130	ppbv #	40
81) 1,2,4-Trichlorobenzene	13.193	180	33	0.436	ppbv #	1

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

Instrument :

MSVOA L

ClientSampleId :

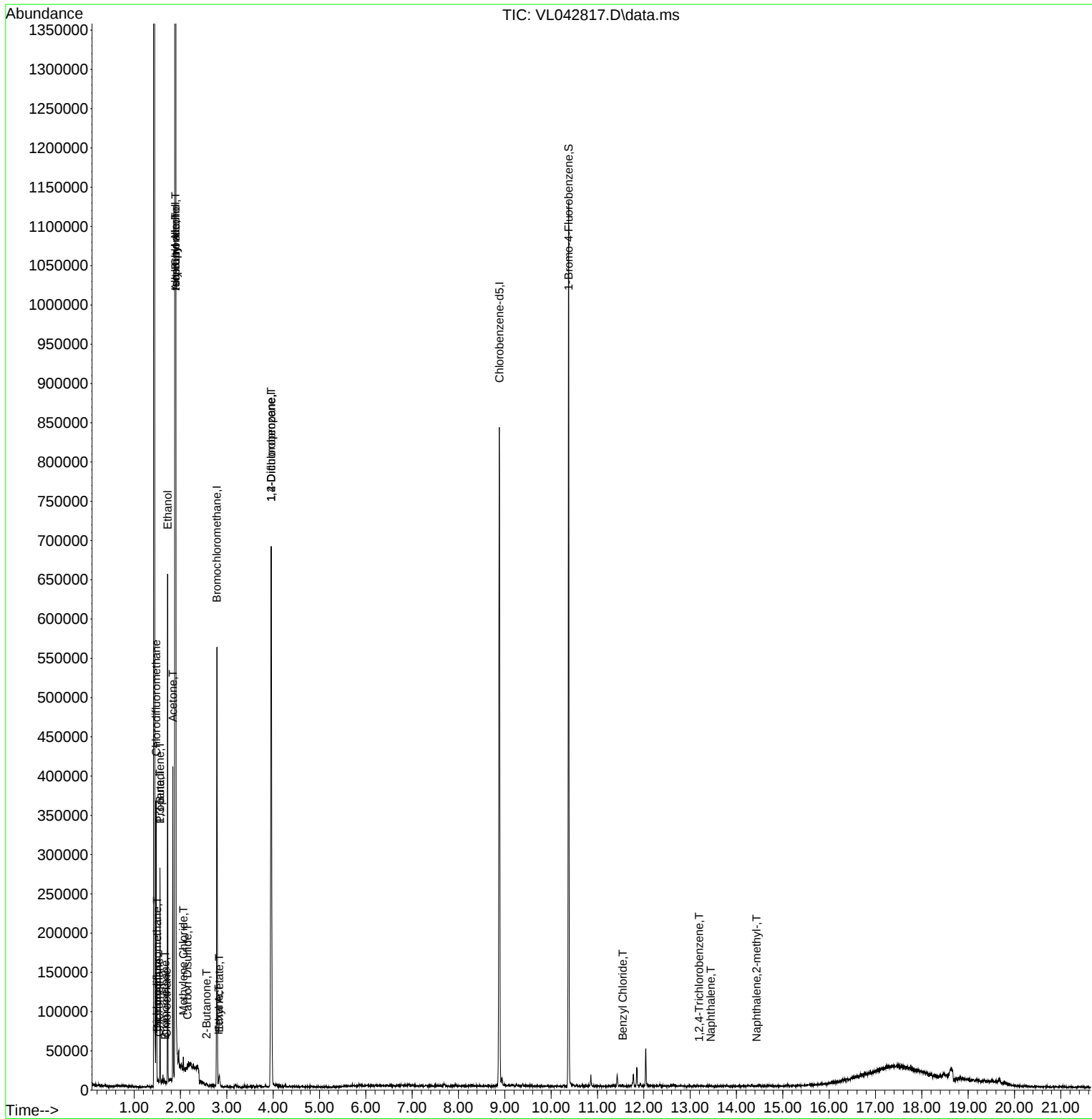
Quant Time: Aug 05 01:13:51 2025

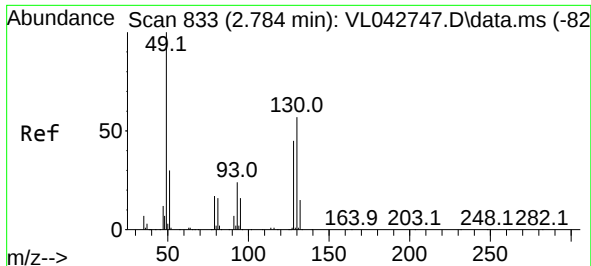
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

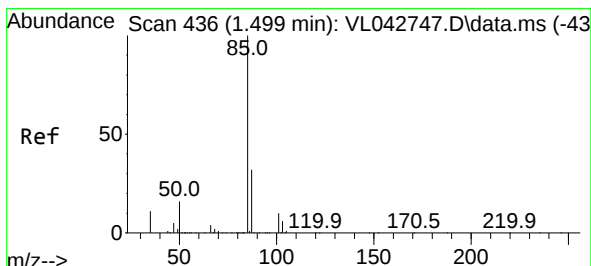
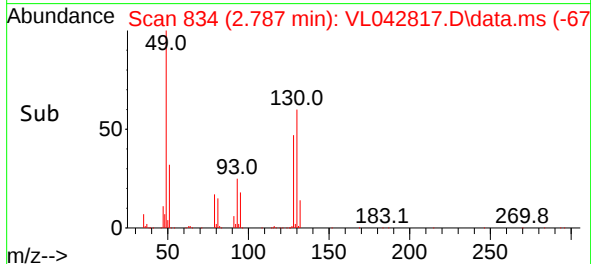
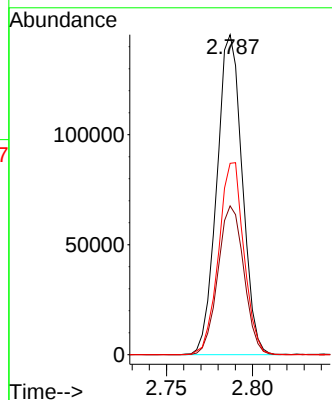
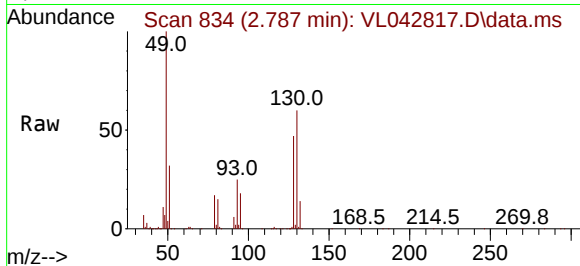




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

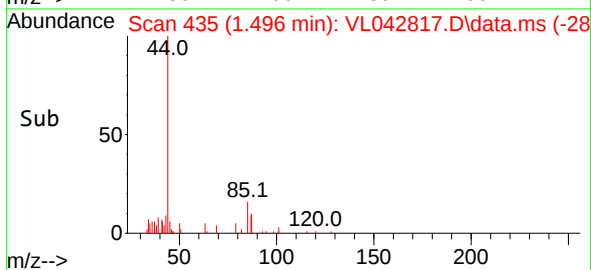
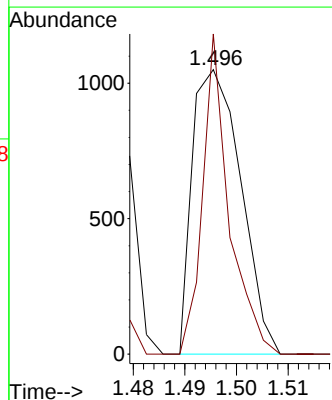
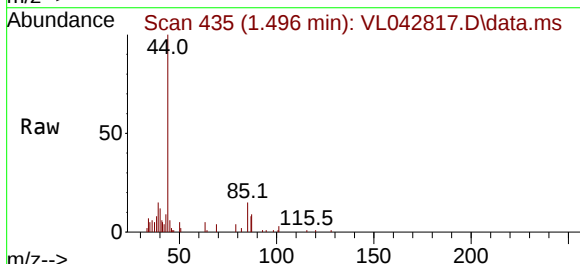
Instrument :
MSVOA_L
ClientSampleId :

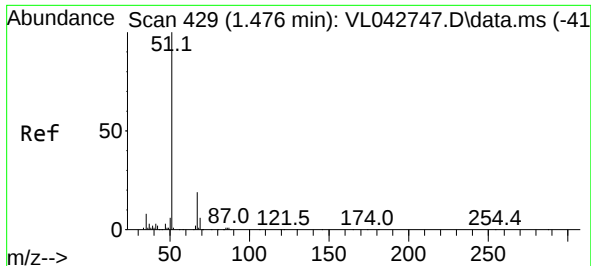
Tgt Ion: 49 Resp: 149464
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 59.8 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 85 Resp: 686
Ion Ratio Lower Upper
85 100
87 112.6 25.4 38.2#

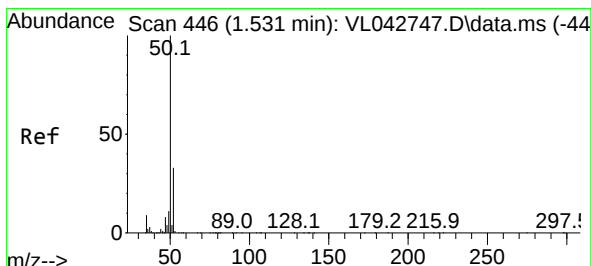
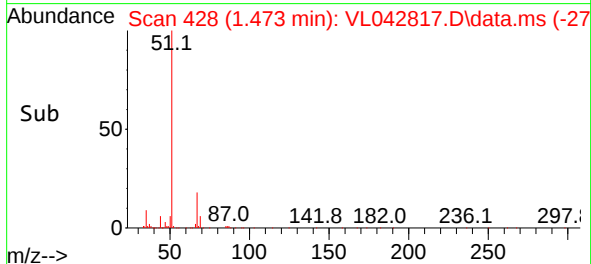
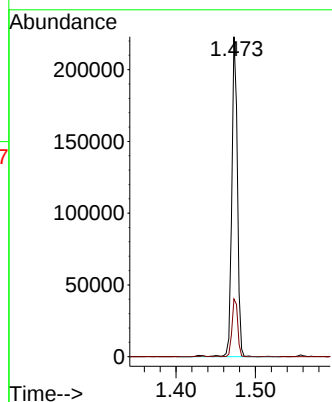
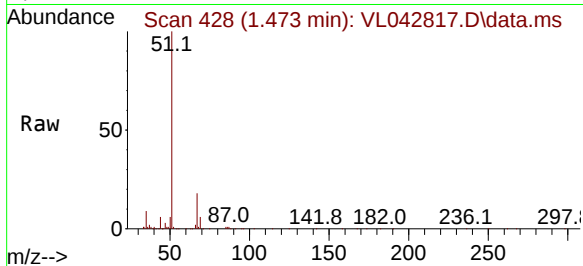




#3
Chlorodifluoromethane
Concen: 4.255 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

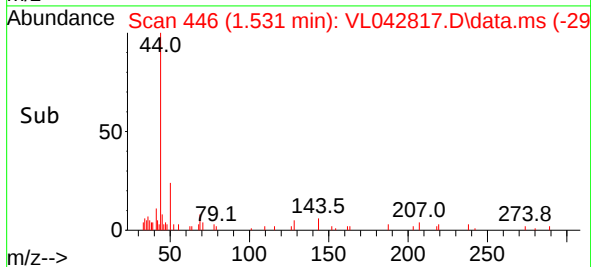
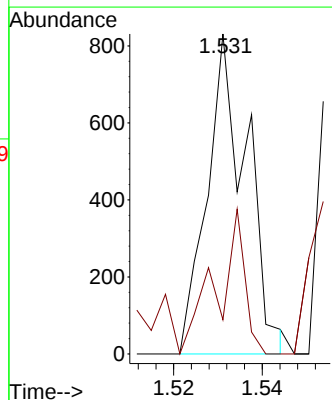
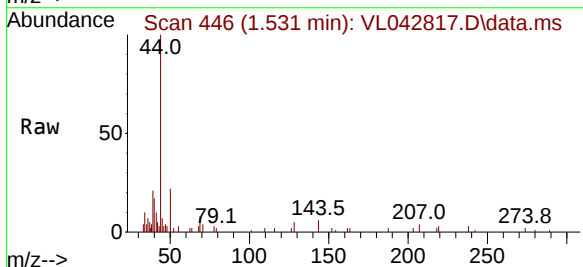
Instrument :
MSVOA_L
ClientSampleId :

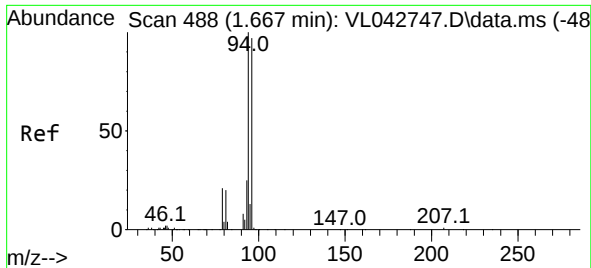
Tgt Ion: 51 Resp: 109538
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6



#4
Chloromethane
Concen: 0.065 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 50 Resp: 518
Ion Ratio Lower Upper
50 100
52 10.7 26.6 40.0#

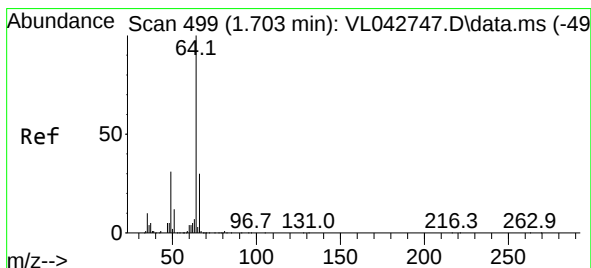
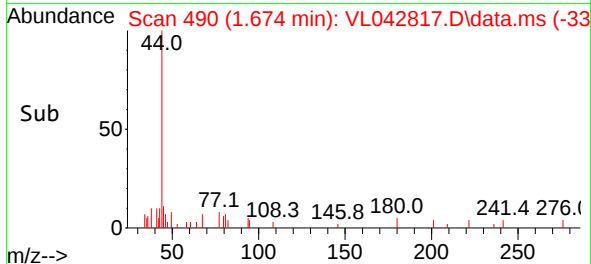
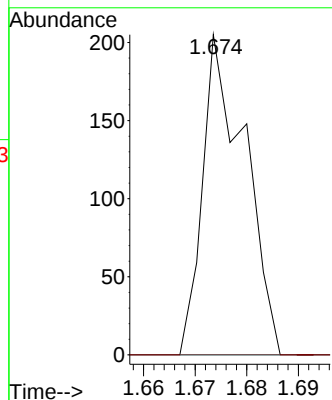
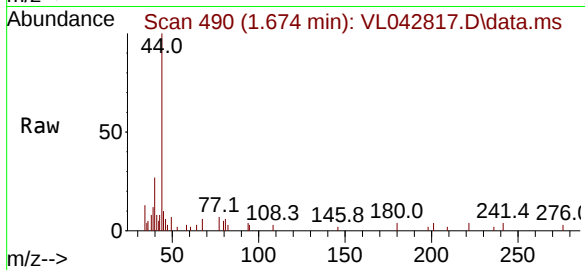




#6
Bromomethane
Concen: 0.038 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

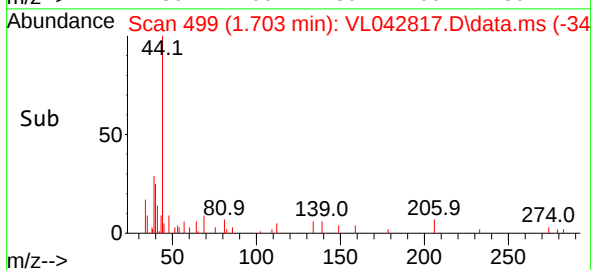
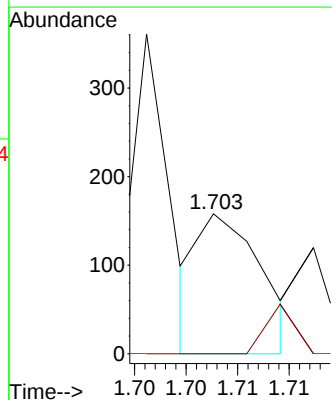
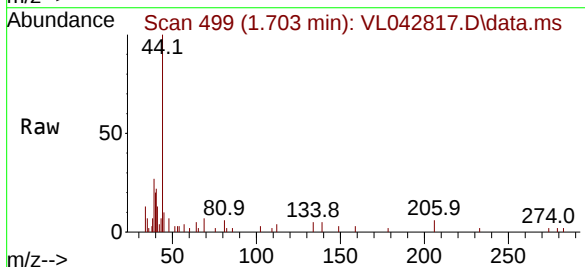
Instrument :
MSVOA_L
ClientSampleId :

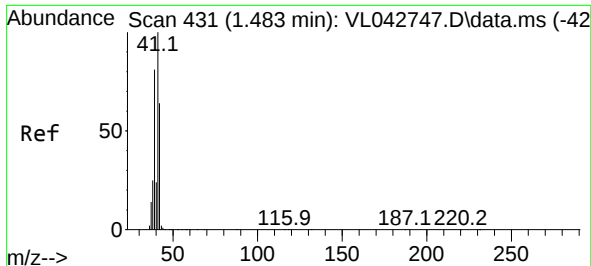
Tgt Ion: 94 Resp: 117
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#



#7
Chloroethane
Concen: 0.022 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 64 Resp: 67
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#





#9

Propene

Concen: 3.501 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.074 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

Instrument :

MSVOA_L

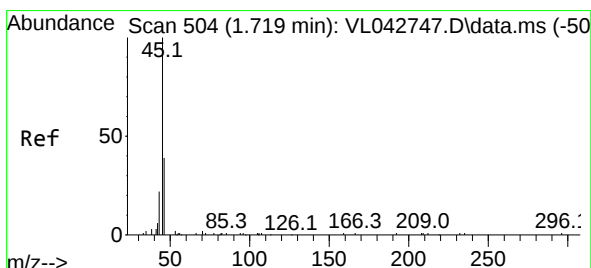
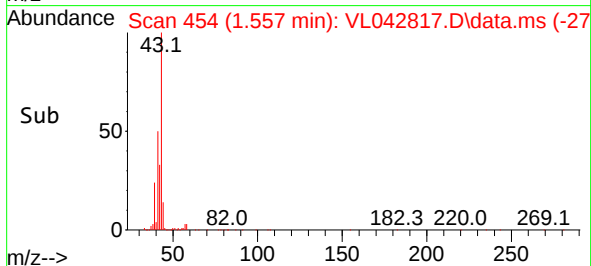
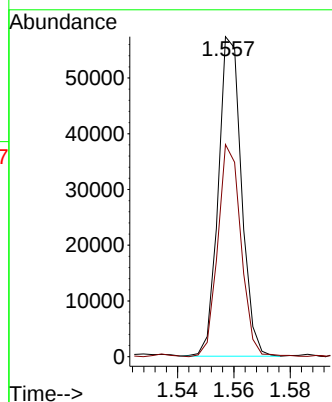
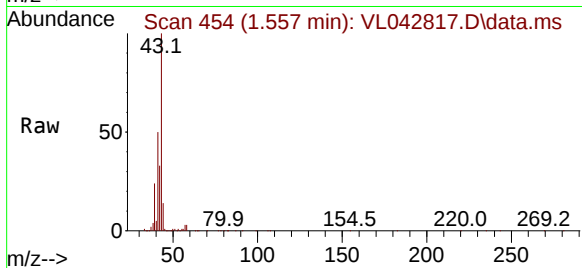
ClientSampleId :

Tgt Ion: 41 Resp: 32759

Ion Ratio Lower Upper

41 100

42 72.7 53.2 79.8



#13

Ethanol

Concen: 326.729 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042817.D

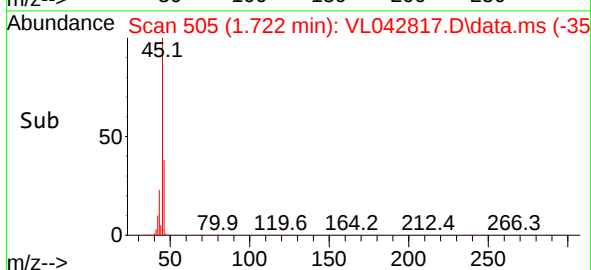
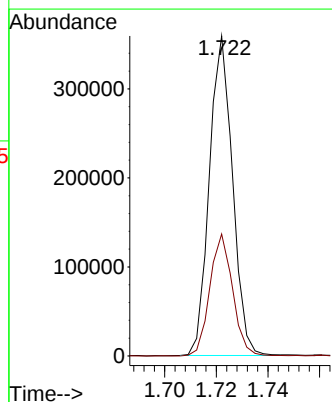
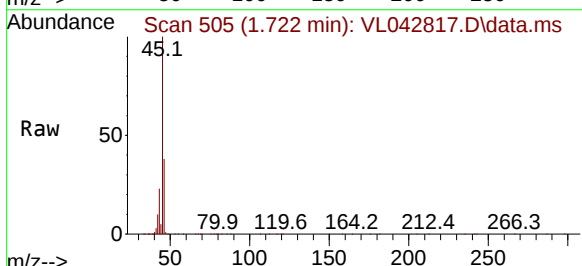
Acq: 04 Aug 2025 21:57

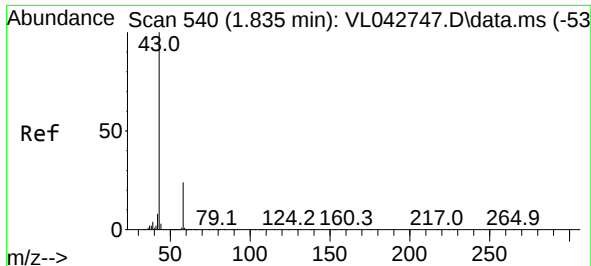
Tgt Ion: 45 Resp: 223366

Ion Ratio Lower Upper

45 100

46 37.7 17.8 71.4

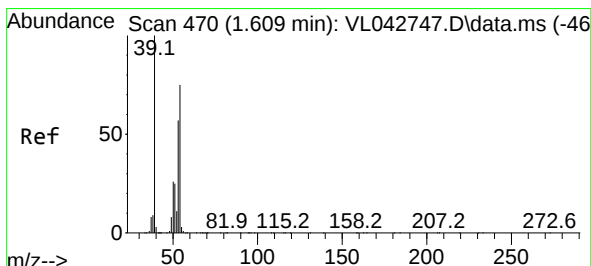
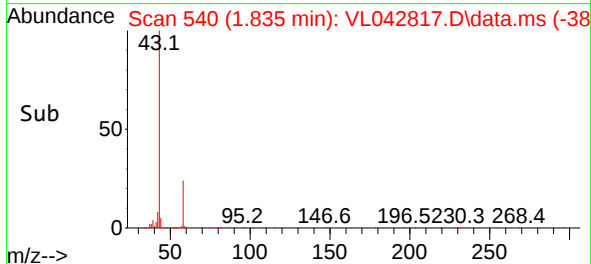
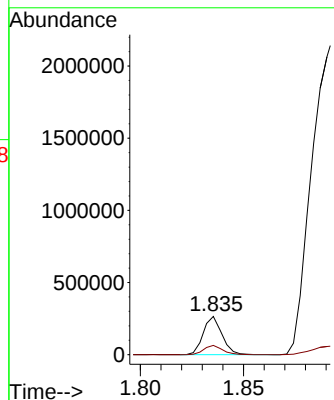
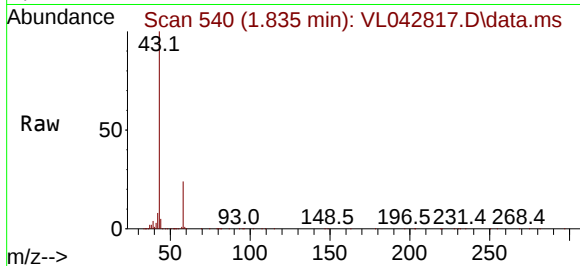




#15
Acetone
Concen: 8.067 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

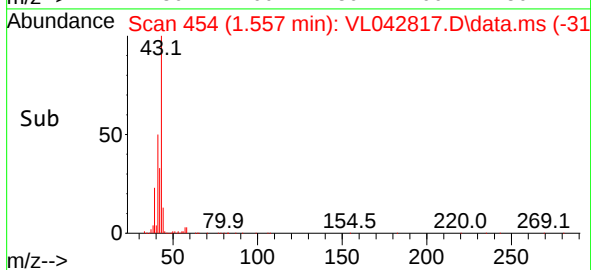
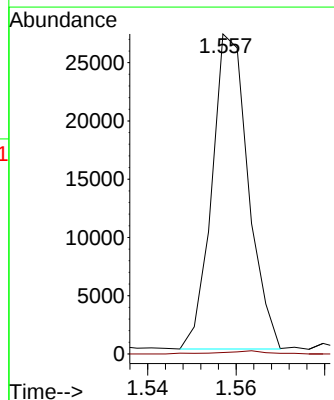
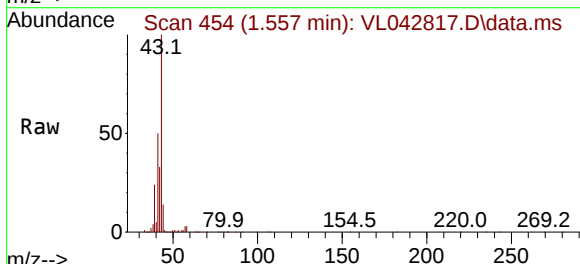
Instrument :
MSVOA_L
ClientSampleId :

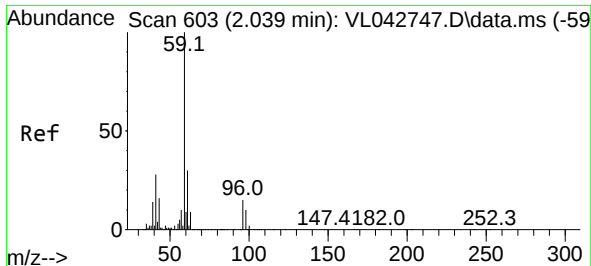
Tgt Ion: 43 Resp: 166487
Ion Ratio Lower Upper
43 100
58 24.3 19.8 29.8



#16
1,3-Butadiene
Concen: 1.754 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 39 Resp: 15444
Ion Ratio Lower Upper
39 100
54 1.3 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 28.355 ppbv

RT: 1.894 min Scan# 51

Delta R.T. -0.146 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

Instrument :

MSVOA_L

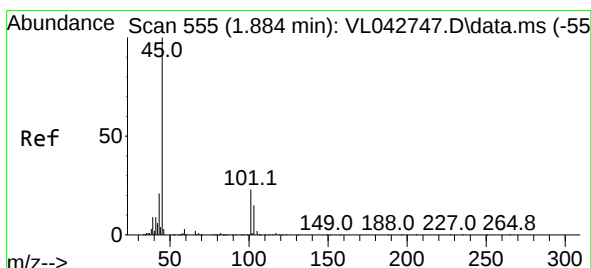
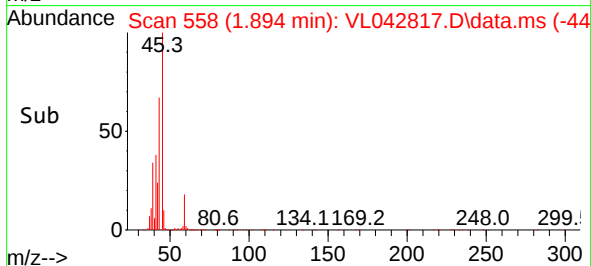
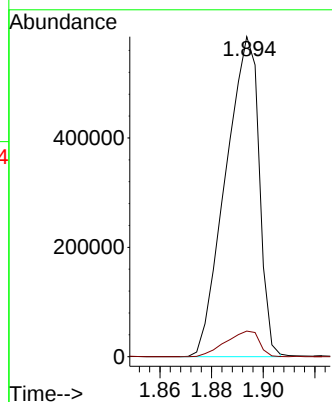
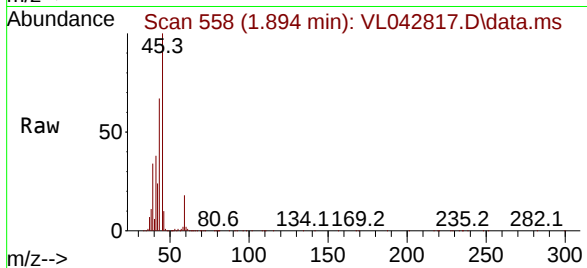
ClientSampleId :

Tgt Ion: 59 Resp: 527790

Ion Ratio Lower Upper

59 100

57 8.1 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 419.069 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042817.D

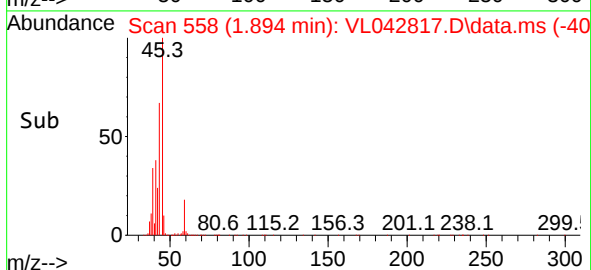
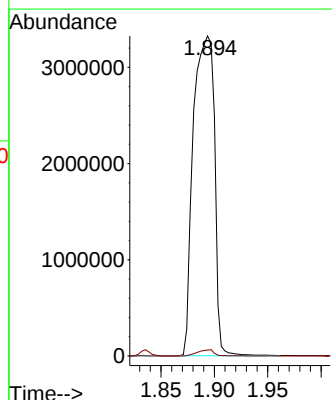
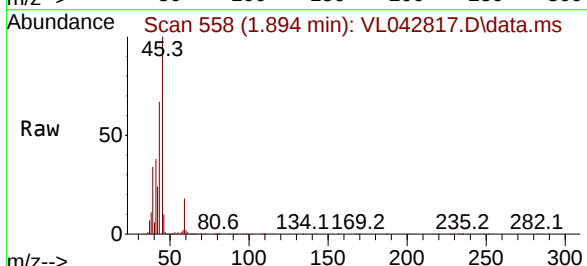
Acq: 04 Aug 2025 21:57

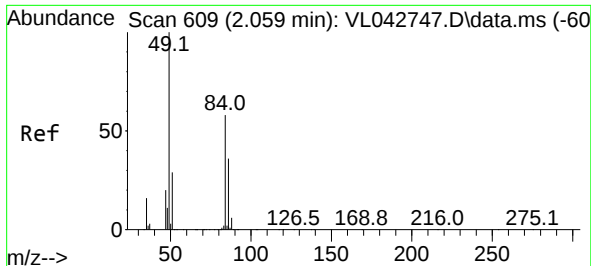
Tgt Ion: 45 Resp: 4596186

Ion Ratio Lower Upper

45 100

58 1.6 30.0 45.0#

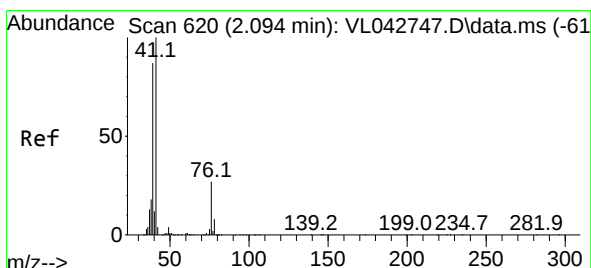
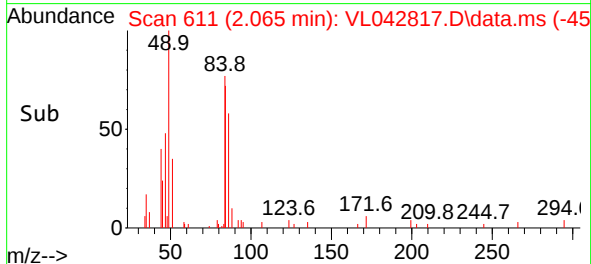
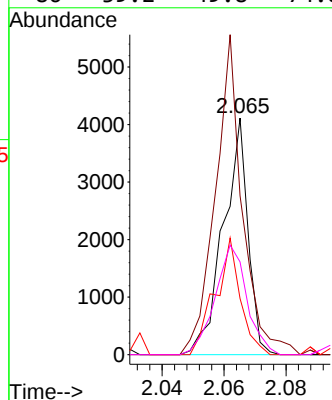
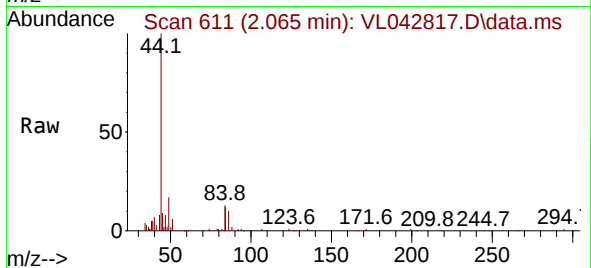




#20
Methylene Chloride
Concen: 0.351 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

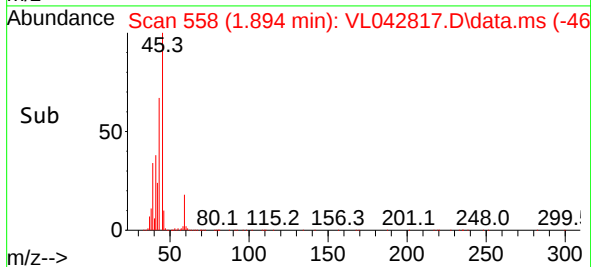
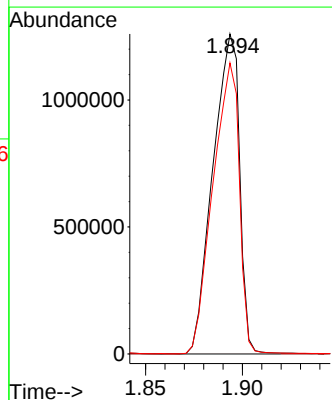
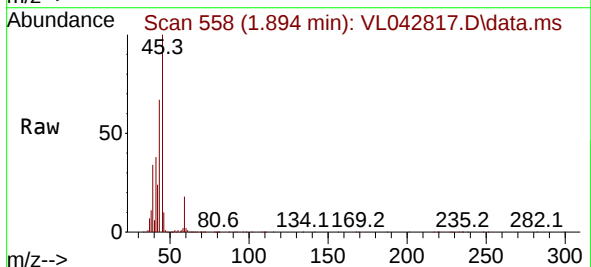
Instrument :
MSVOA_L
ClientSampleId :

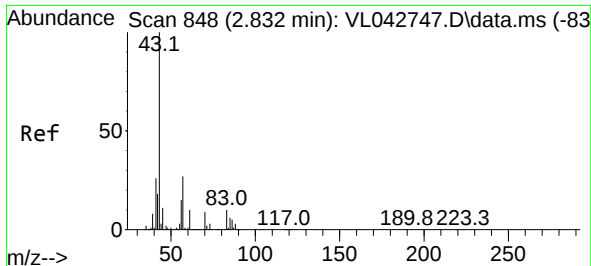
Tgt Ion: 84 Resp: 2281
Ion Ratio Lower Upper
84 100
49 67.3 138.6 208.0#
51 23.7 40.6 61.0#
86 39.2 49.8 74.8#



#21
Allyl Chloride
Concen: 94.666 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.201 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 41 Resp: 1204148
Ion Ratio Lower Upper
41 100
76 0.0 21.1 31.7#
39 89.8 68.3 102.5





#25

Ethyl Acetate

Concen: 0.178 ppbv

RT: 2.839 min Scan# 815

Delta R.T. 0.006 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 8153

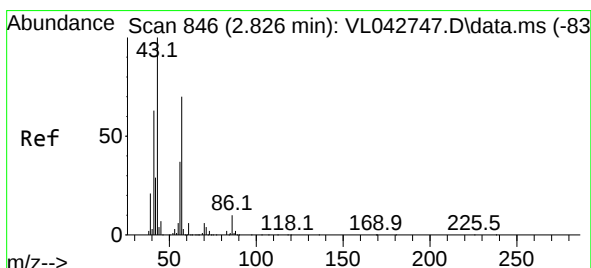
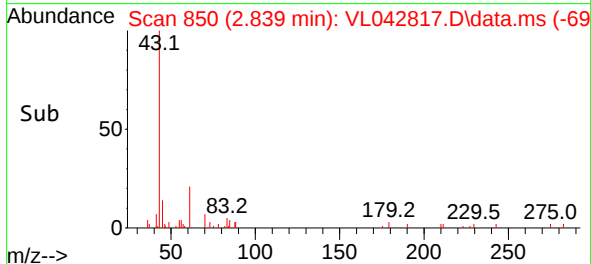
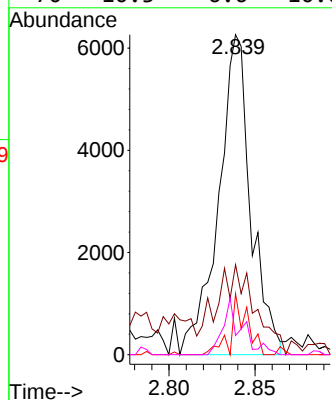
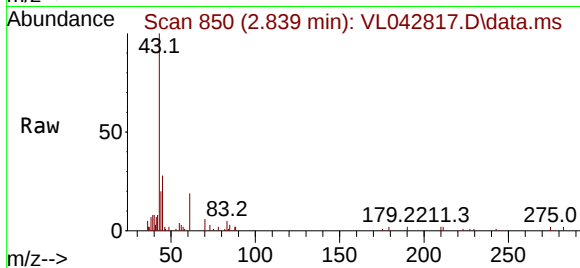
Ion Ratio Lower Upper

43 100

45 38.8 7.8 11.6#

61 10.1 6.7 10.1#

70 10.3 6.6 10.0#



#26

Hexane

Concen: 0.041 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.000 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

Tgt Ion: 57 Resp: 829

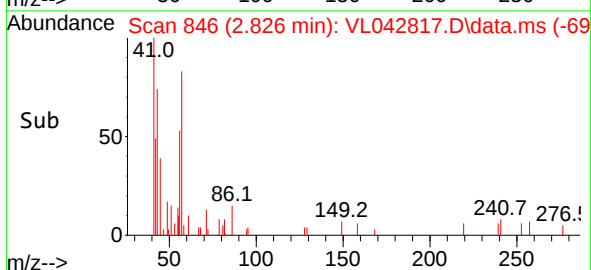
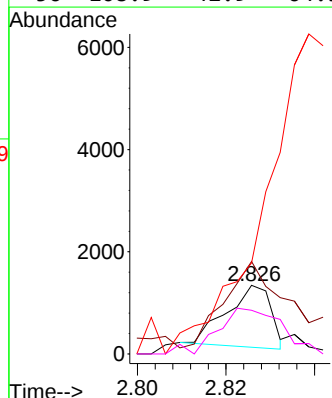
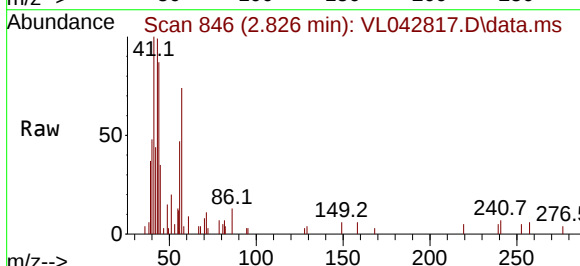
Ion Ratio Lower Upper

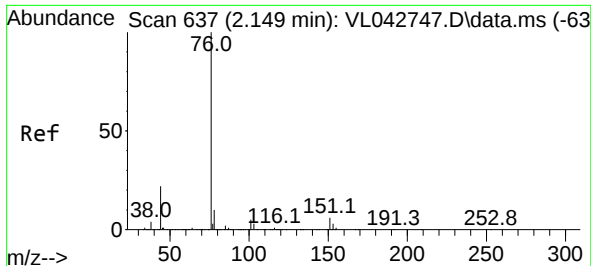
57 100

41 334.4 75.4 113.2#

43 0.0 185.0 277.6#

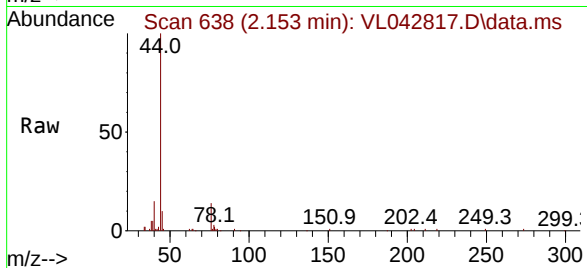
56 108.9 42.9 64.3#



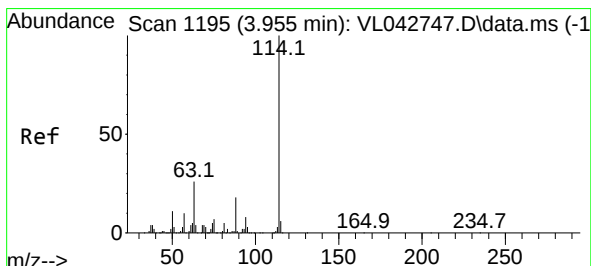
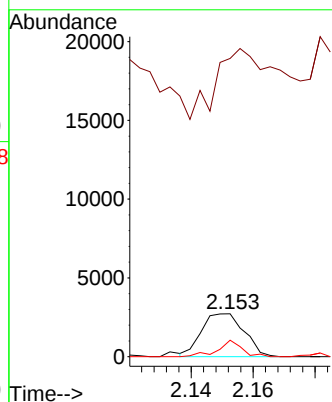
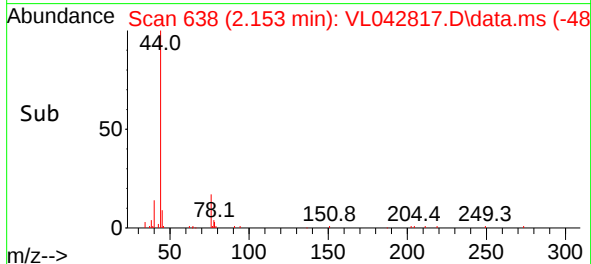


#27
Carbon Disulfide
Concen: 0.152 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

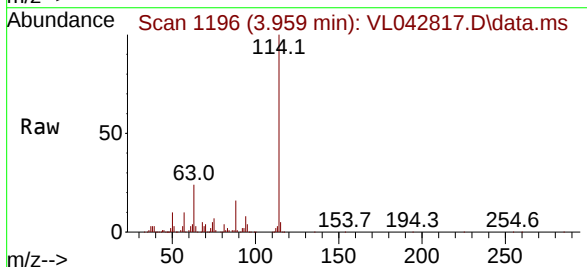
Instrument :
MSVOA_1
ClientSampleId :



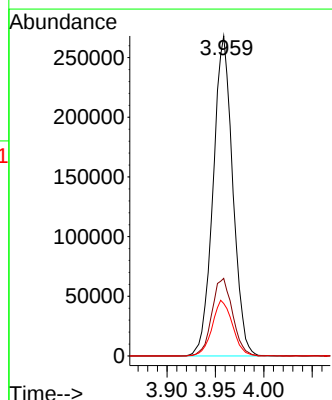
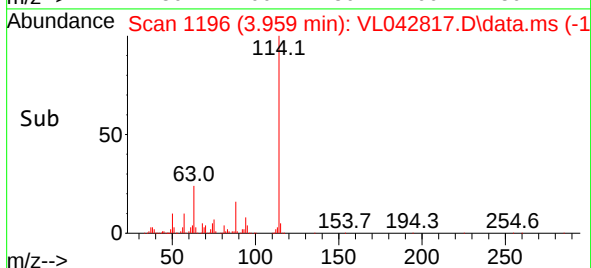
Tgt Ion: 76 Resp: 2609
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 24.4 9.9 14.9#

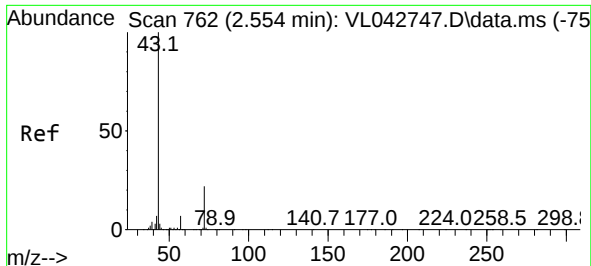


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57



Tgt Ion: 114 Resp: 378209
Ion Ratio Lower Upper
114 100
63 25.7 20.5 30.7
88 18.0 14.0 21.0

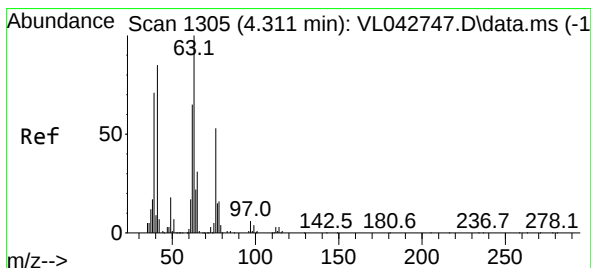
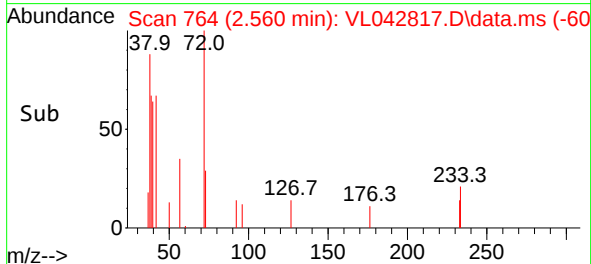
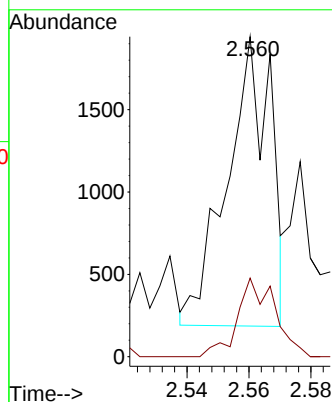
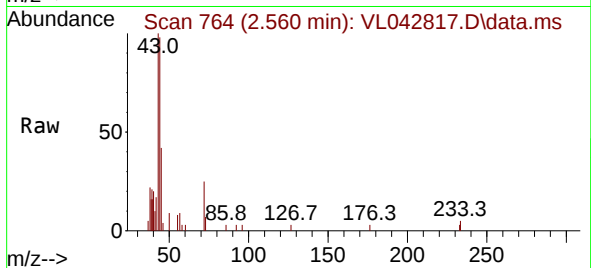




#34
2-Butanone
Concen: 0.064 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

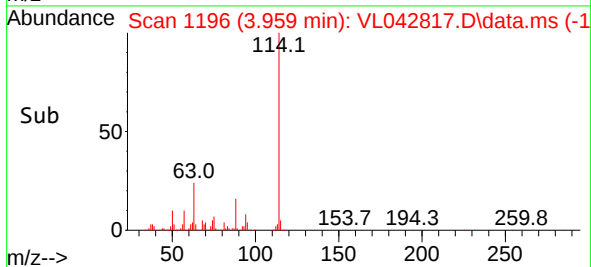
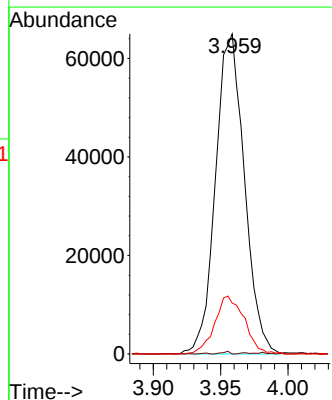
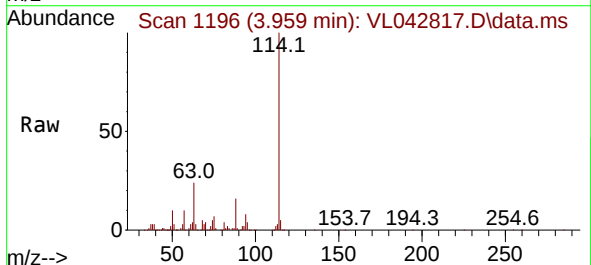
Instrument :
MSVOA_L
ClientSampleId :

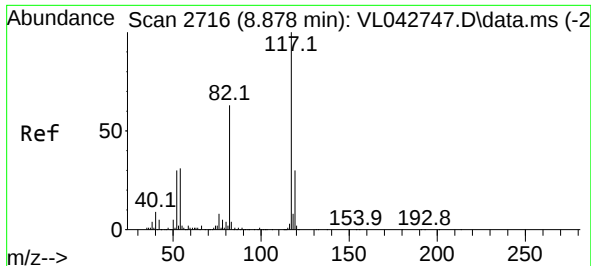
Tgt Ion: 43 Resp: 1720
Ion Ratio Lower Upper
43 100
72 23.4 17.4 26.0



#39
1,2-Dichloropropane
Concen: 7.317 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 63 Resp: 96805
Ion Ratio Lower Upper
63 100
41 0.2 68.2 102.4#
62 15.9 52.0 78.0#

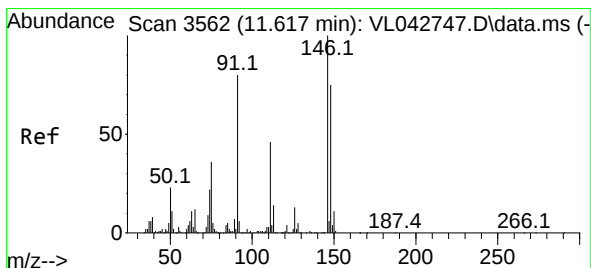
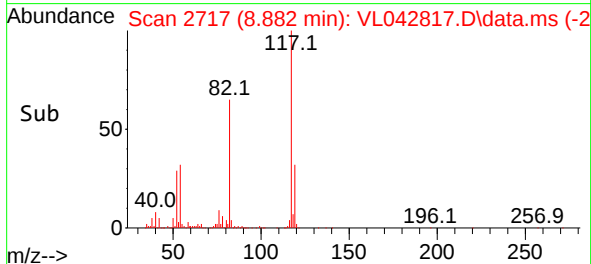
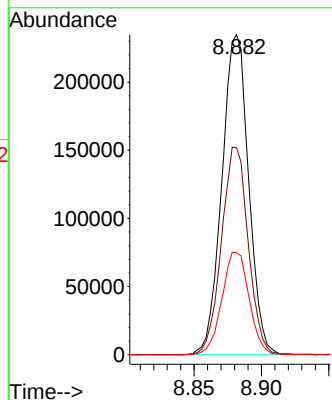
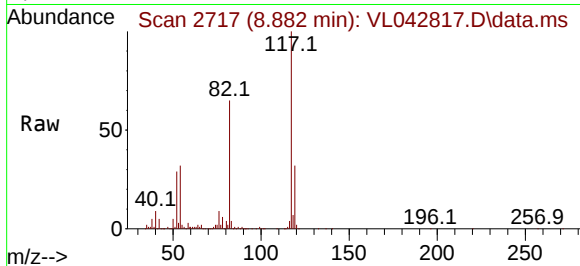




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

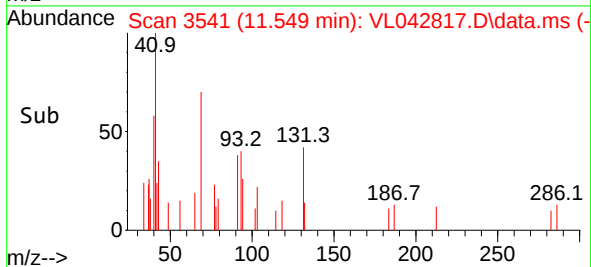
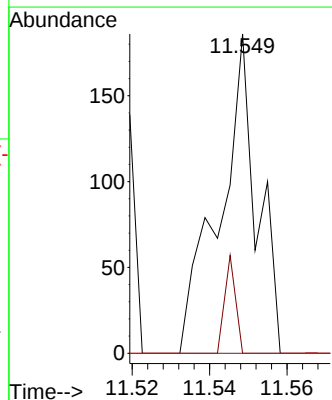
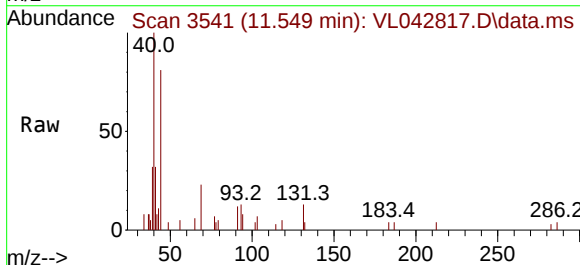
Instrument :
MSVOA_L
ClientSampleId :

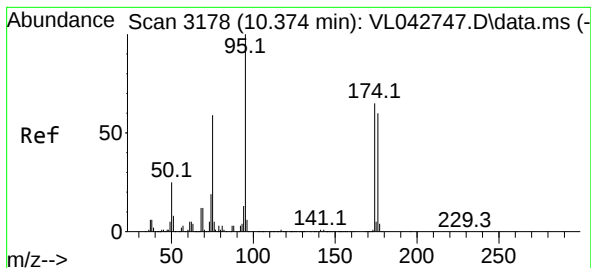
Tgt Ion:117 Resp: 324186
Ion Ratio Lower Upper
117 100
82 64.9 53.3 79.9
119 32.6 25.8 38.6



#66
Benzyl Chloride
Concen: 0.028 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. -0.068 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

Tgt Ion: 91 Resp: 125
Ion Ratio Lower Upper
91 100
126 0.0 14.4 21.6#
128 0.0 5.2 7.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.882 ppbv

RT: 10.377 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

Instrument :

MSVOA_L

ClientSampleId :

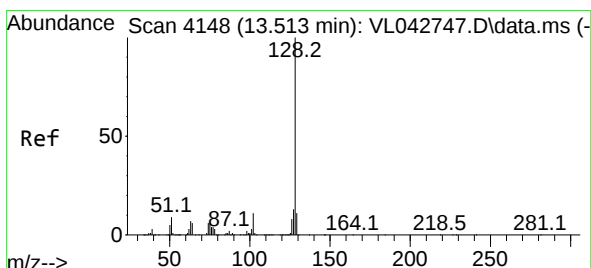
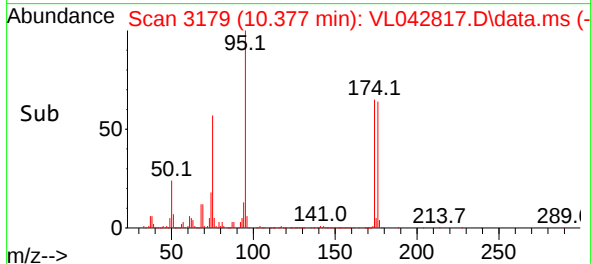
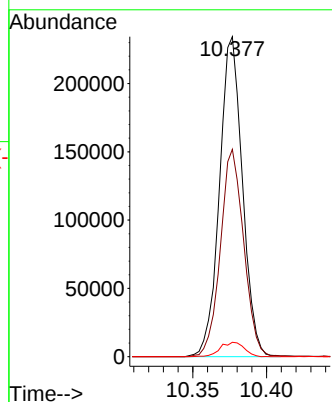
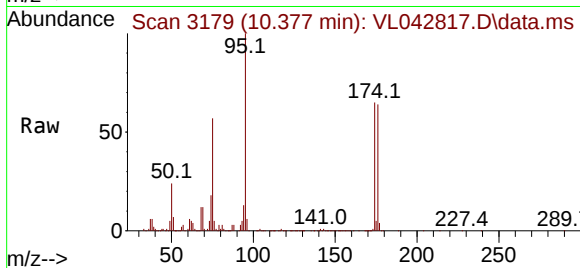
Tgt Ion: 95 Resp: 253708

Ion Ratio Lower Upper

95 100

174 66.0 53.8 80.6

175 4.7 4.0 6.0



#79

Naphthalene

Concen: 0.436 ppbv

RT: 13.445 min Scan# 4127

Delta R.T. -0.068 min

Lab File: VL042817.D

Acq: 04 Aug 2025 21:57

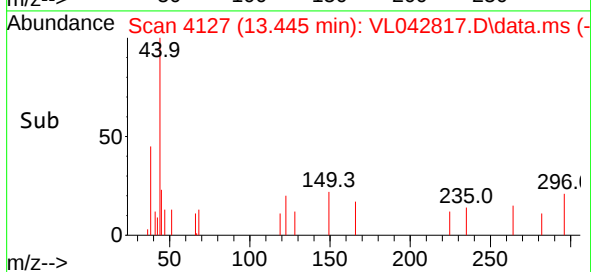
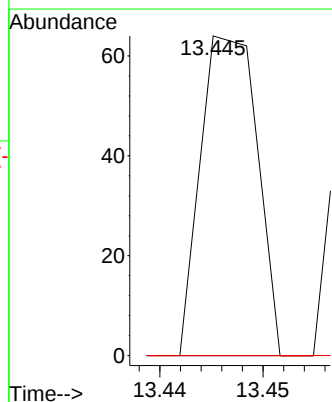
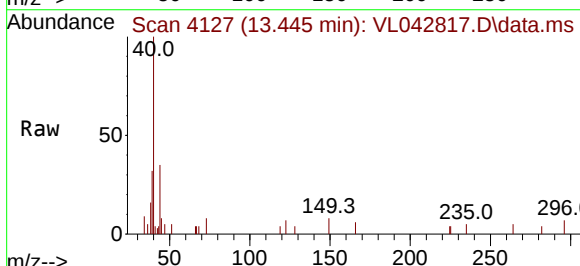
Tgt Ion:128 Resp: 24

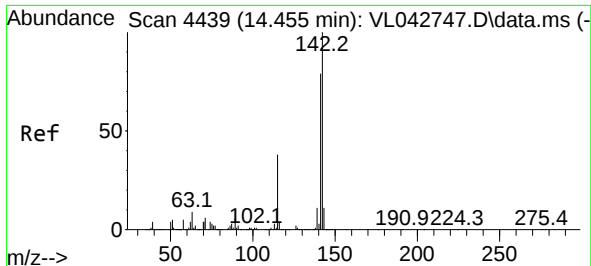
Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

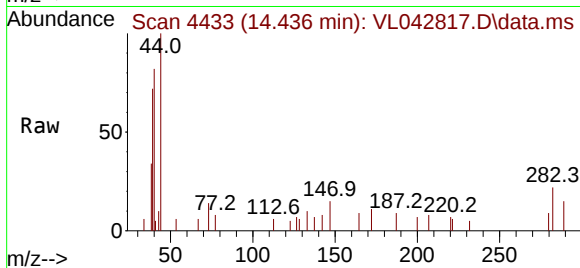
129 0.0 8.6 13.0#



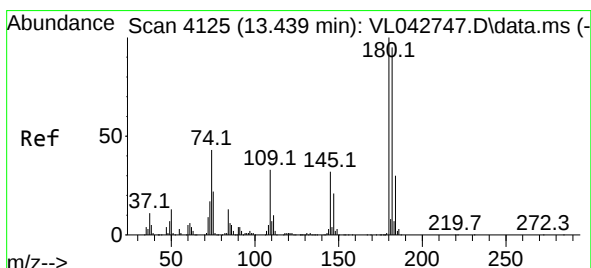
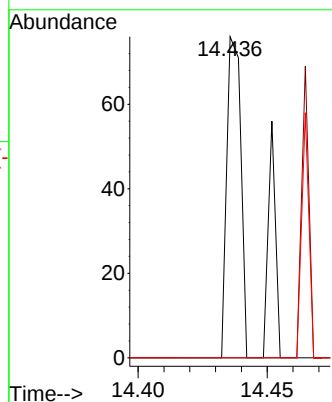
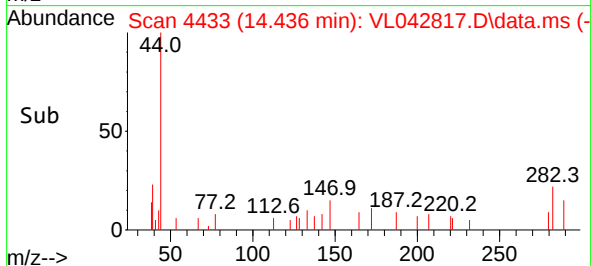


#80
Naphthalene, 2-methyl-
Concen: 1.130 ppbv
RT: 14.436 min Scan# 4433
Delta R.T. -0.020 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57

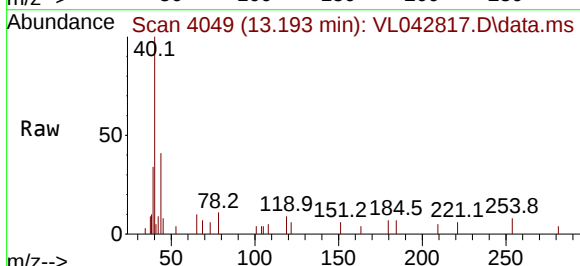
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:142 Resp: 39
Ion Ratio Lower Upper
142 100
141 33.3 65.8 98.8#
115 82.1 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.193 min Scan# 4049
Delta R.T. -0.246 min
Lab File: VL042817.D
Acq: 04 Aug 2025 21:57



Tgt Ion:180 Resp: 33
Ion Ratio Lower Upper
180 100
182 160.6 76.2 114.2#
184 306.1 24.8 37.2#

