

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073125\
 Data File : VL042789.D
 Acq On : 31 Jul 2025 09:29
 Operator : SY/MD
 Sample : VL0731ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0731ABL01

Quant Time: Aug 01 01:12:57 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)

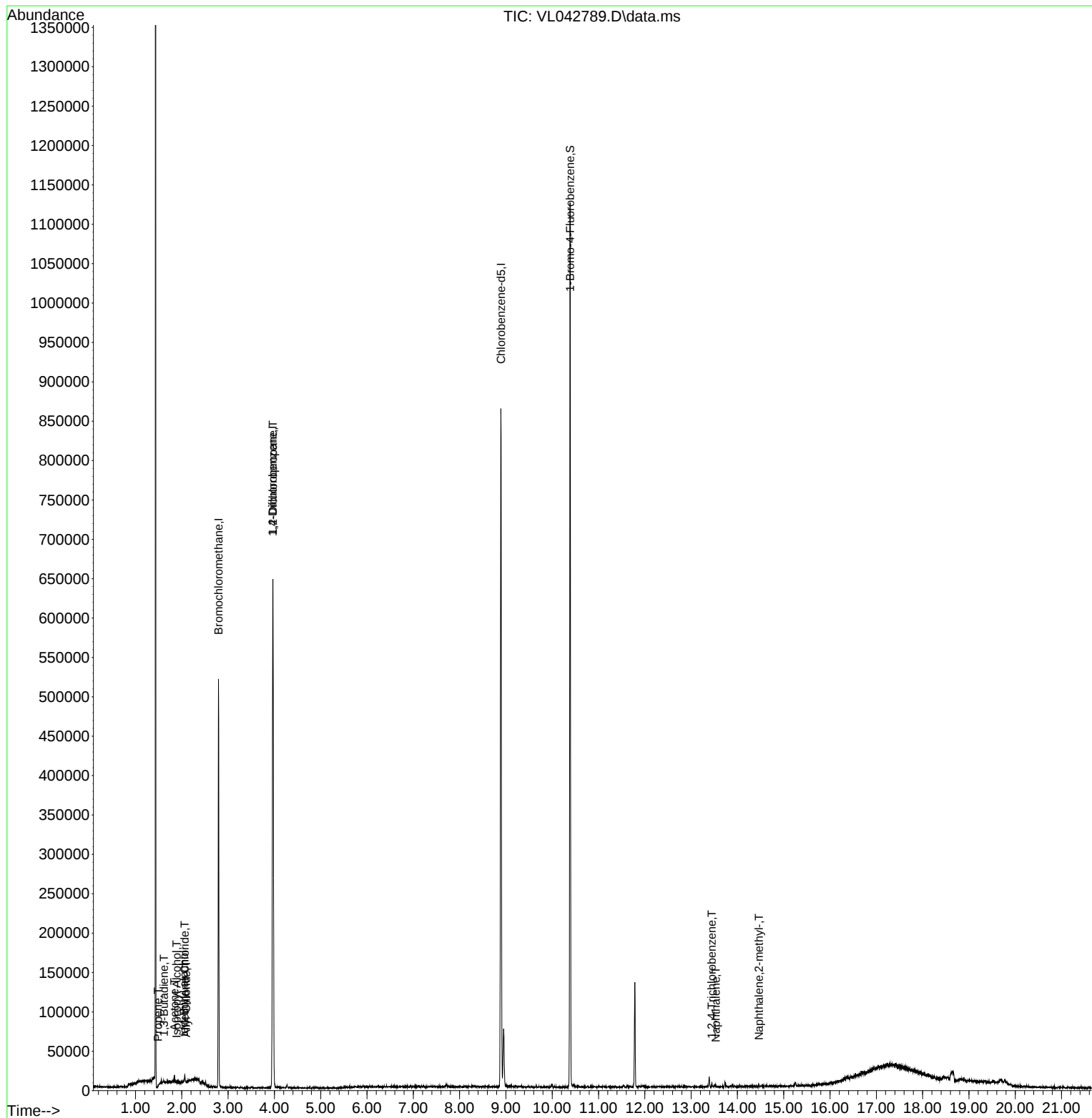
Internal Standards						
1) Bromochloromethane	2.793	49	139538	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	390208	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	340795	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	265127	9.824	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	327	0.037	ppbv #	17
13) Ethanol	1.722	45	621	Below Cal	#	31
15) Acetone	1.842	43	4001	0.208	ppbv #	80
16) 1,3-Butadiene	1.615	39	165	0.020	ppbv #	16
17) tert-Butyl alcohol	2.049	59	936	0.054	ppbv #	60
19) Isopropyl Alcohol	1.887	45	399	0.039	ppbv #	1
20) Methylene Chloride	2.065	84	1442	0.237	ppbv #	89
21) Allyl Chloride	2.097	41	254	0.021	ppbv #	17
39) 1,2-Dichloropropane	3.968	63	99787	7.310	ppbv #	21
79) Naphthalene	13.532	128	151	0.438	ppbv #	69
80) Naphthalene,2-methyl-	14.468	142	598	1.150	ppbv #	76
81) 1,2,4-Trichlorobenzene	13.445	180	481	0.451	ppbv #	50

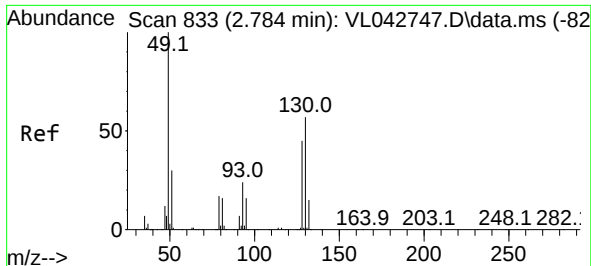
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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VL0731ABL01

Quant Time: Aug 01 01:12:57 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

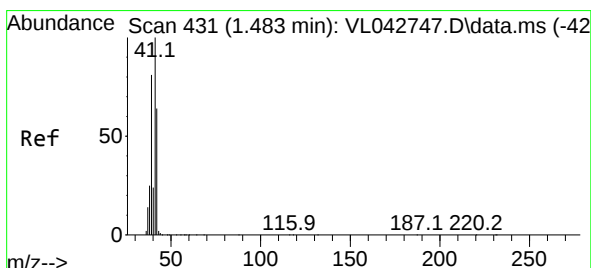
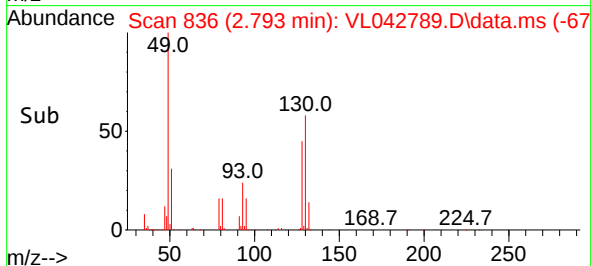
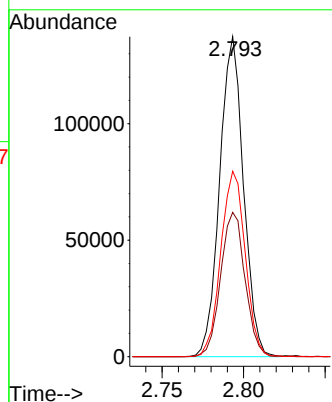
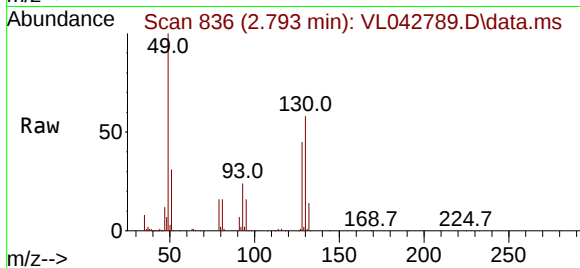




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

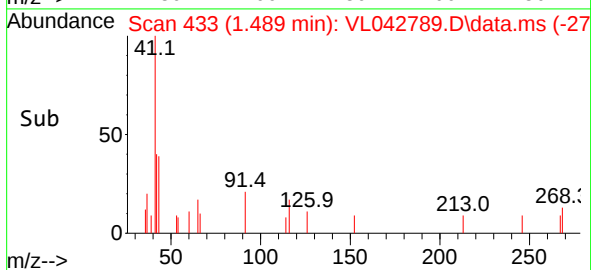
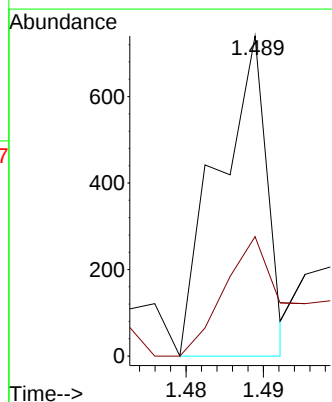
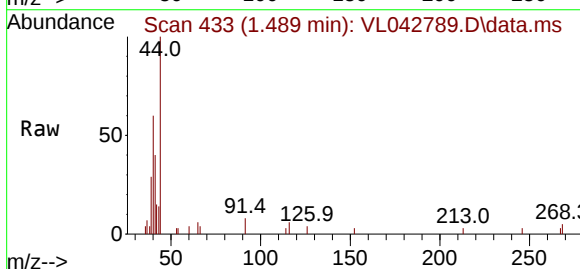
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

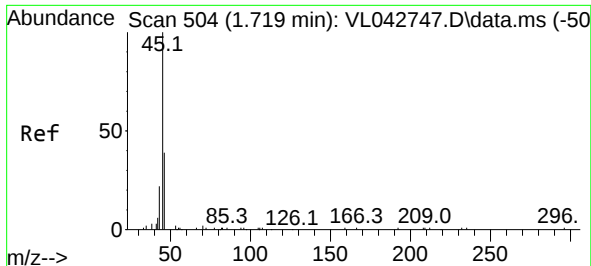
Tgt Ion: 49 Resp: 139538
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 59.4 30.3 90.8



#9
Propene
Concen: 0.037 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 41 Resp: 327
Ion Ratio Lower Upper
41 100
42 0.0 53.2 79.8#





#13

Ethanol

Concen: Below Cal

RT: 1.722 min Scan# 50

Delta R.T. 0.003 min

Lab File: VL042789.D

Acq: 31 Jul 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

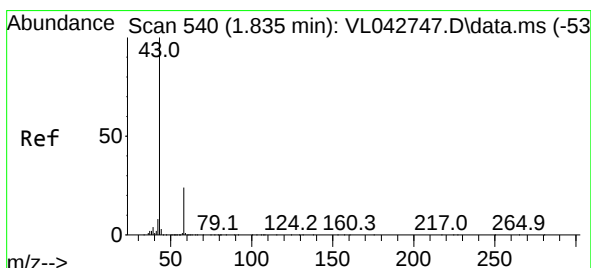
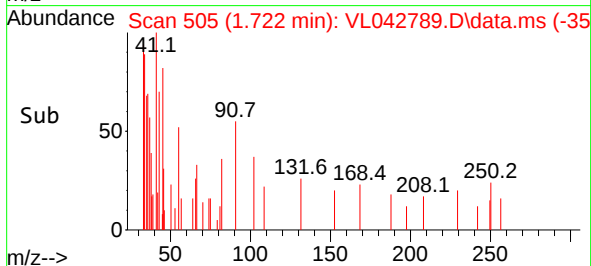
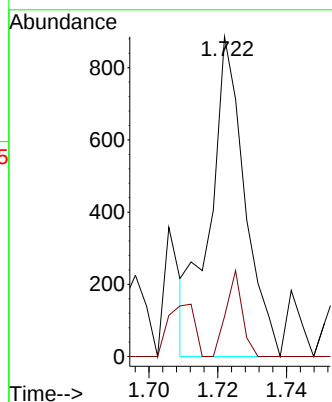
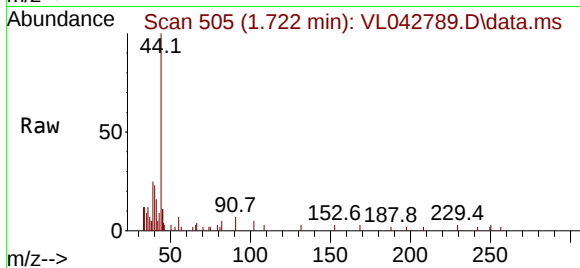
VL0731ABL01

Tgt Ion: 45 Resp: 621

Ion Ratio Lower Upper

45 100

46 0.0 17.8 71.4#



#15

Acetone

Concen: 0.208 ppbv

RT: 1.842 min Scan# 542

Delta R.T. 0.006 min

Lab File: VL042789.D

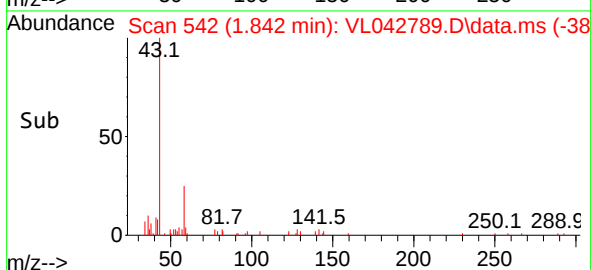
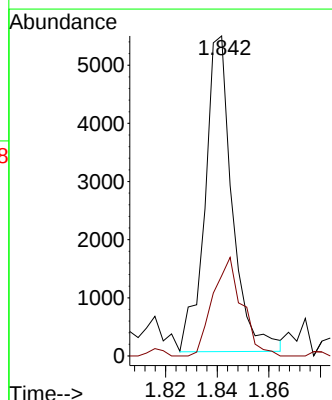
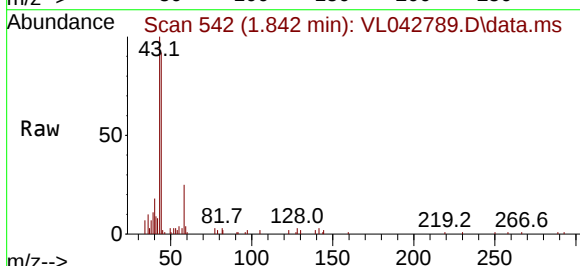
Acq: 31 Jul 2025 09:29

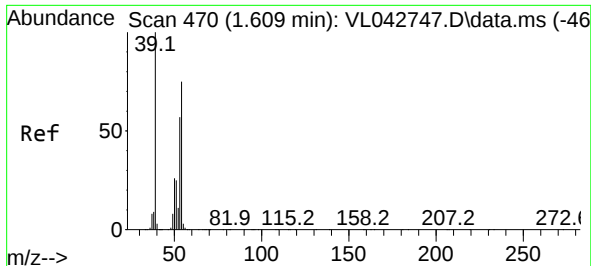
Tgt Ion: 43 Resp: 4001

Ion Ratio Lower Upper

43 100

58 34.8 19.8 29.8#

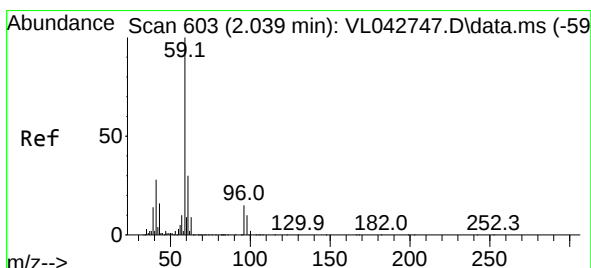
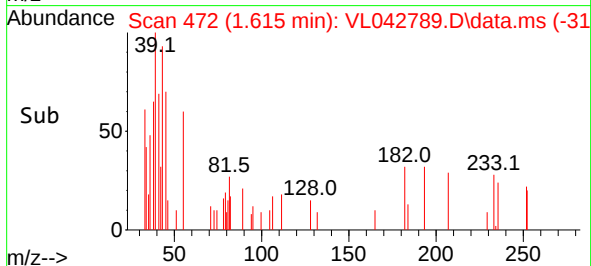
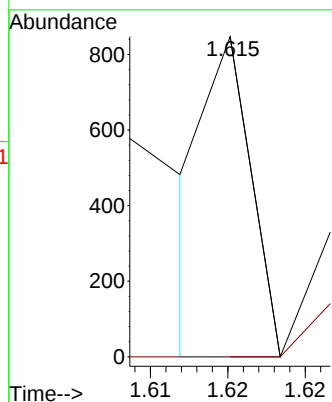
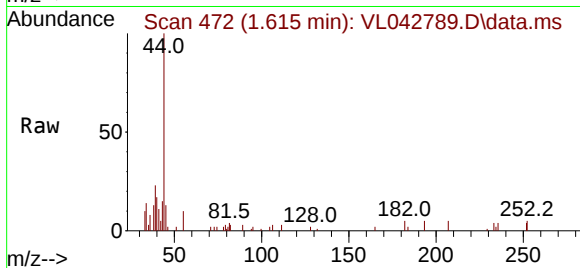




#16
1,3-Butadiene
Concen: 0.020 ppbv
RT: 1.615 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

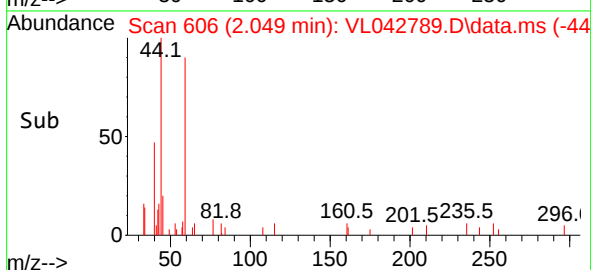
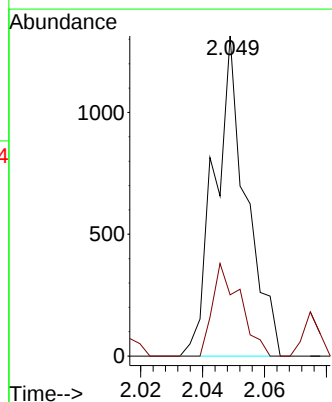
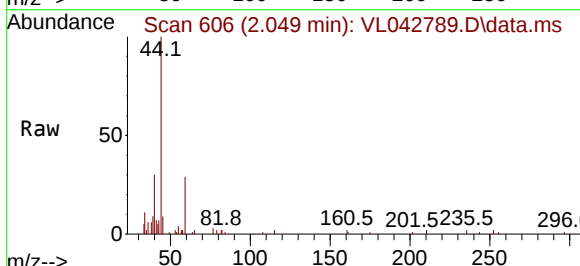
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

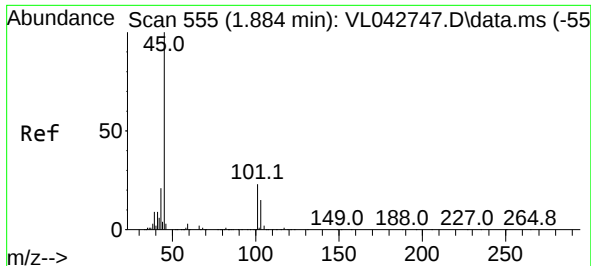
Tgt Ion: 39 Resp: 165
Ion Ratio Lower Upper
39 100
54 0.0 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 0.054 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.009 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 59 Resp: 936
Ion Ratio Lower Upper
59 100
57 25.2 8.3 12.5#

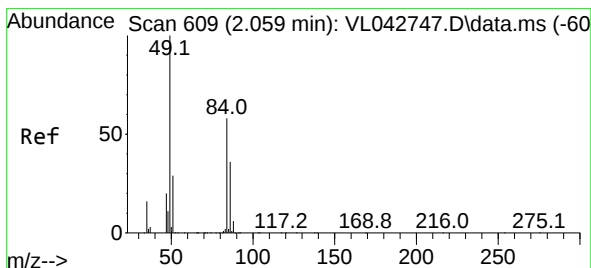
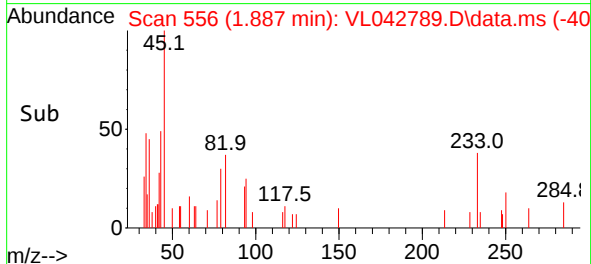
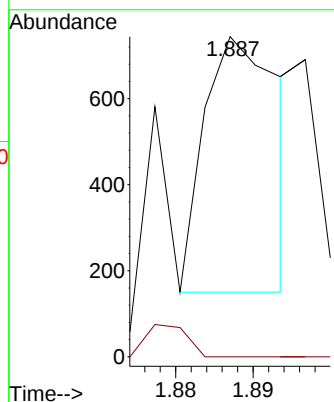
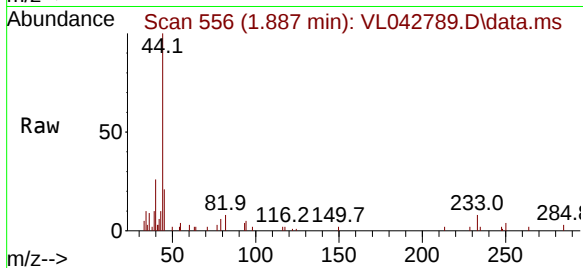




#19
Isopropyl Alcohol
Concen: 0.039 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

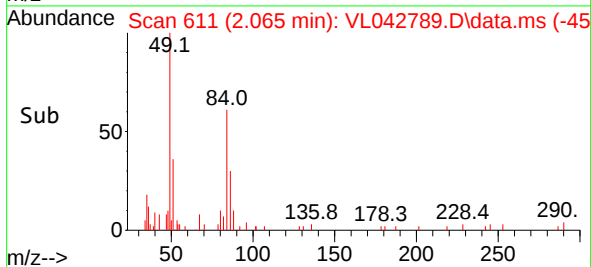
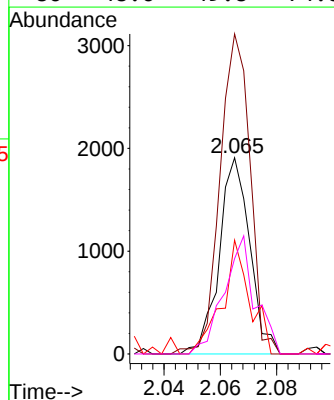
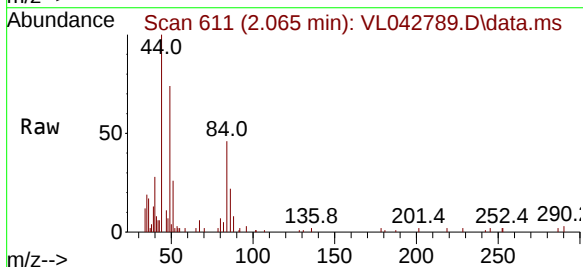
Instrument :
MSVOA_1
ClientSampleId :
VL0731ABL01

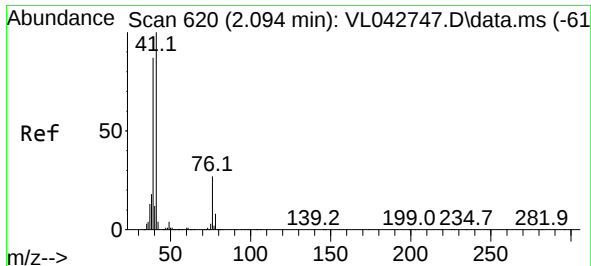
Tgt Ion: 45 Resp: 399
Ion Ratio Lower Upper
45 100
58 348.6 30.0 45.0#



#20
Methylene Chloride
Concen: 0.237 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 84 Resp: 1442
Ion Ratio Lower Upper
84 100
49 160.5 138.6 208.0
51 58.0 40.6 61.0
86 48.6 49.8 74.8#

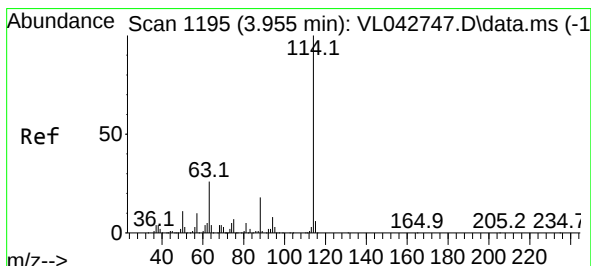
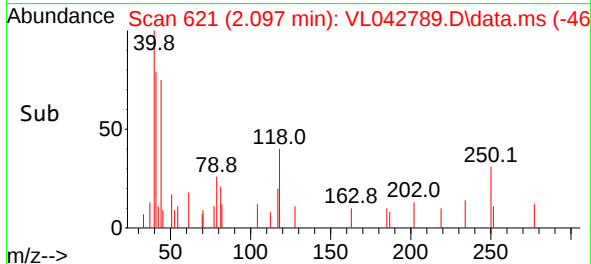
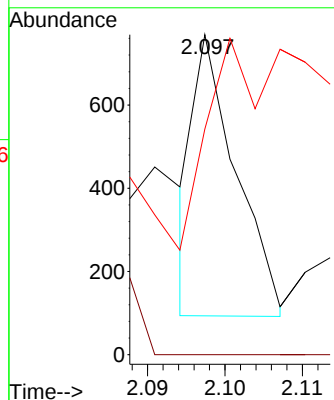
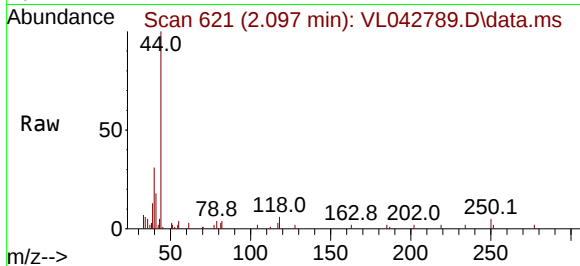




#21
 Allyl Chloride
 Concen: 0.021 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042789.D
 Acq: 31 Jul 2025 09:29

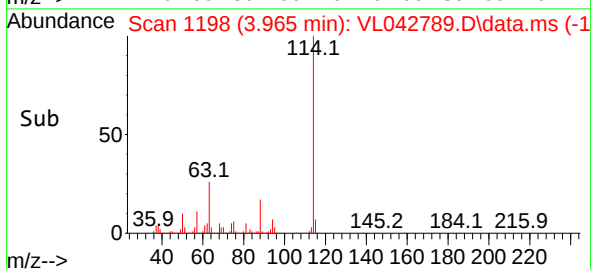
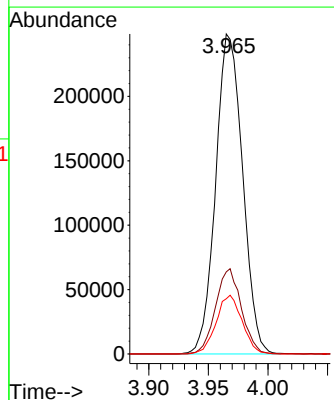
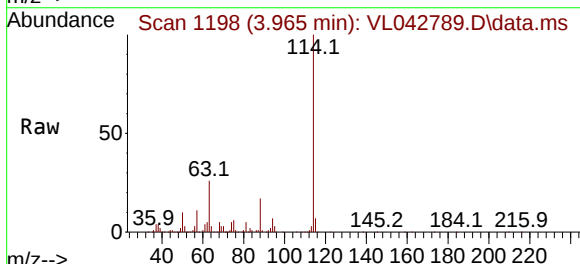
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0731ABL01

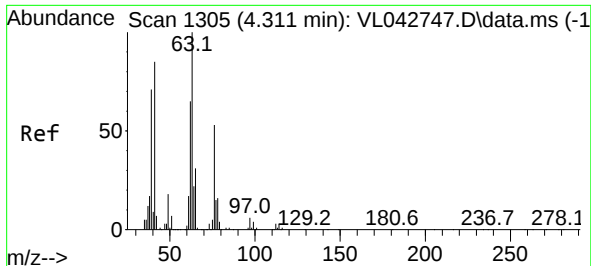
Tgt Ion: 41 Resp: 254
 Ion Ratio Lower Upper
 41 100
 76 0.0 21.1 31.7#
 39 0.0 68.3 102.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.010 min
 Lab File: VL042789.D
 Acq: 31 Jul 2025 09:29

Tgt Ion: 114 Resp: 390208
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.7 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.310 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042789.D

Acq: 31 Jul 2025 09:29

Instrument :

MSVOA_L

ClientSampleId :

VL0731ABL01

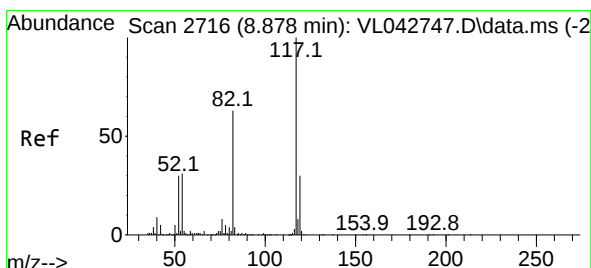
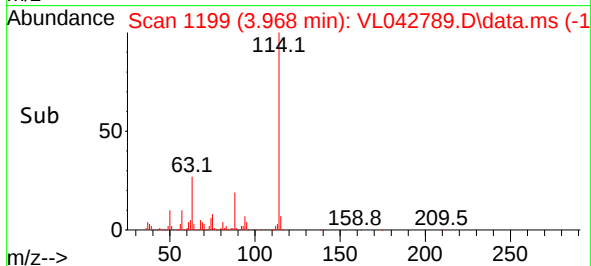
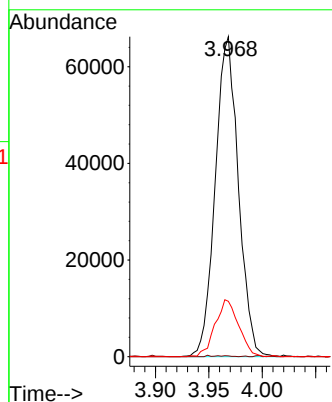
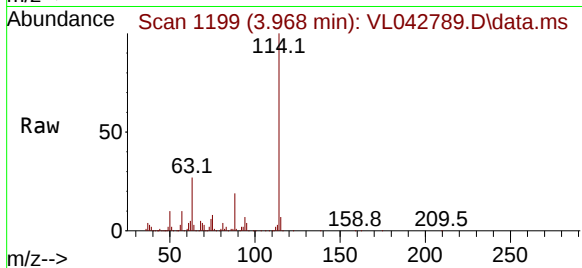
Tgt Ion: 63 Resp: 99787

Ion Ratio Lower Upper

63 100

41 0.2 68.2 102.4#

62 17.3 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2720

Delta R.T. 0.013 min

Lab File: VL042789.D

Acq: 31 Jul 2025 09:29

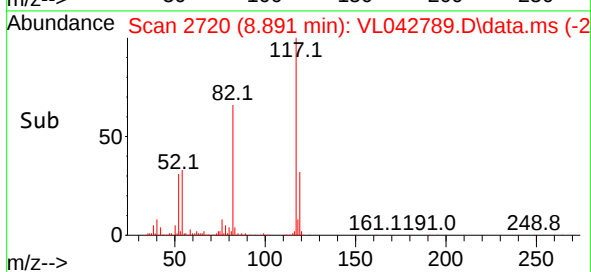
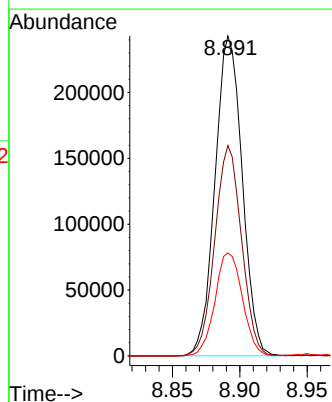
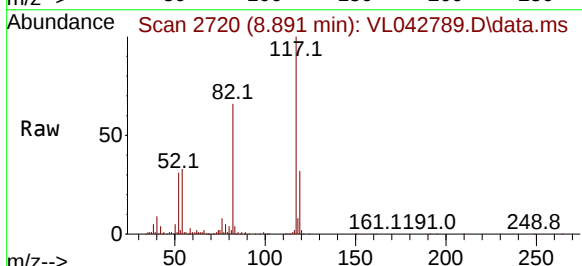
Tgt Ion: 117 Resp: 340795

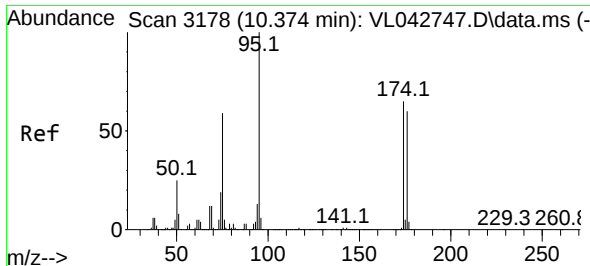
Ion Ratio Lower Upper

117 100

82 65.0 53.3 79.9

119 32.6 25.8 38.6

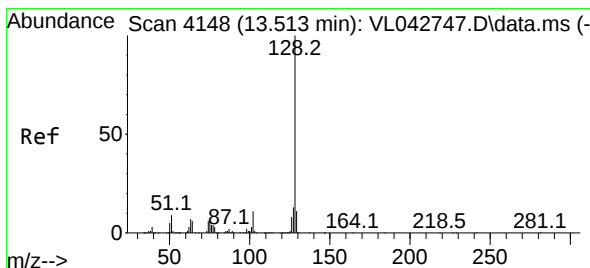
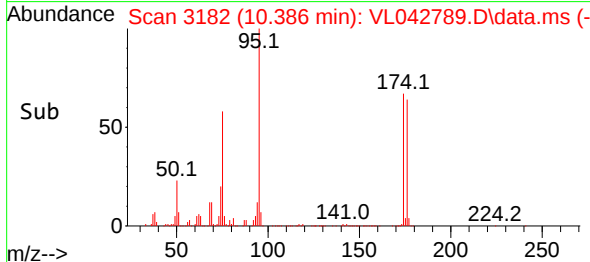
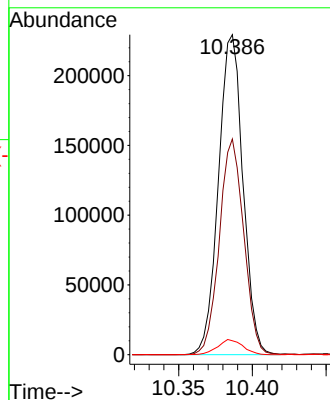
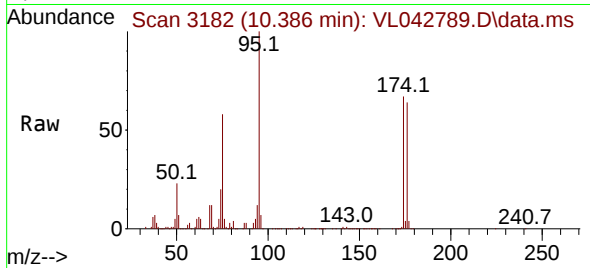




#68
1-Bromo-4-Fluorobenzene
Concen: 9.824 ppbv
RT: 10.386 min Scan# 3178
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

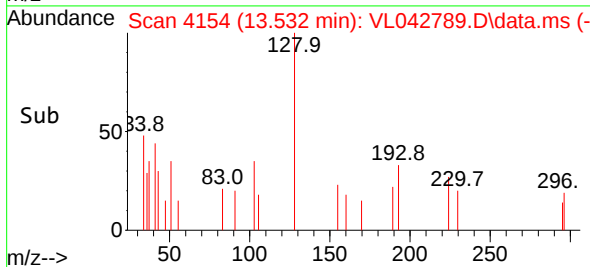
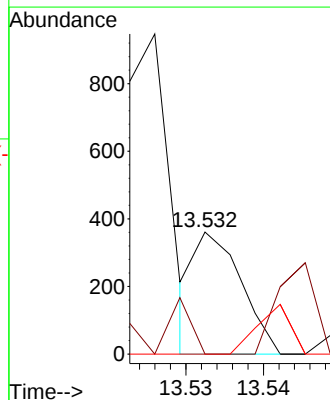
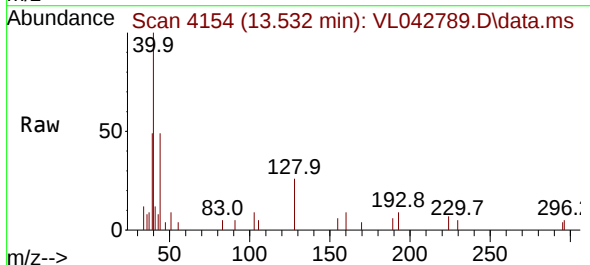
Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

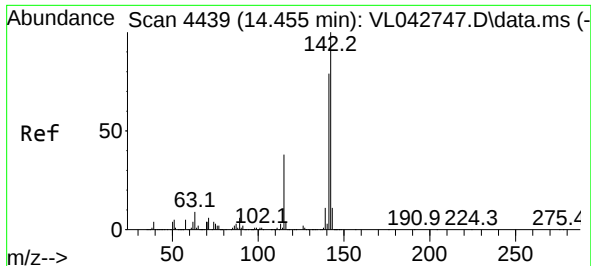
Tgt Ion: 95 Resp: 265127
Ion Ratio Lower Upper
95 100
174 67.0 53.8 80.6
175 4.9 4.0 6.0



#79
Naphthalene
Concen: 0.438 ppbv
RT: 13.532 min Scan# 4154
Delta R.T. 0.019 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion: 128 Resp: 151
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

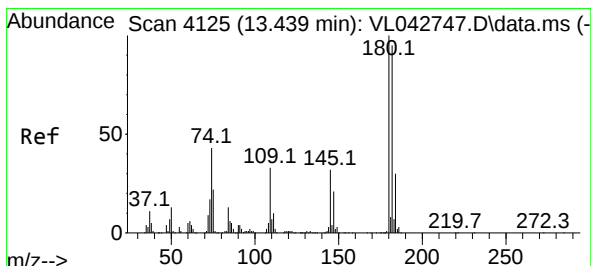
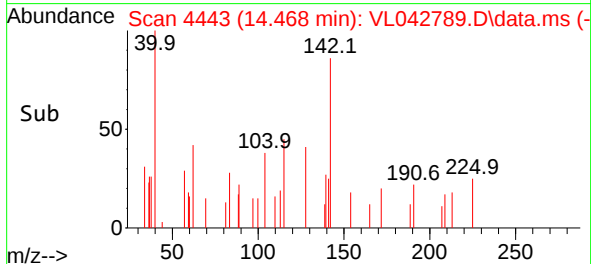
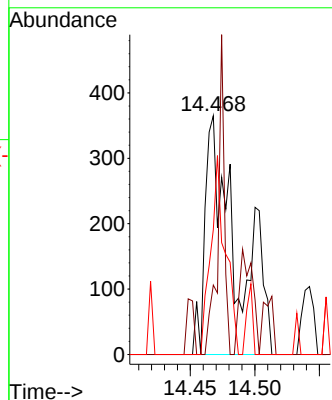
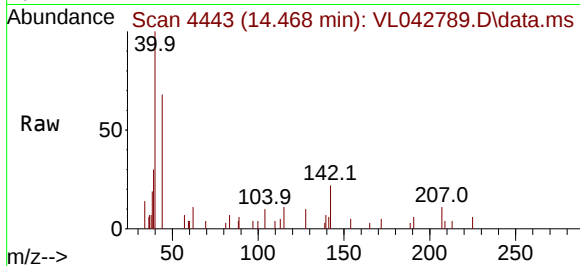




#80
Naphthalene, 2-methyl-
Concen: 1.150 ppbv
RT: 14.468 min Scan# 4439
Delta R.T. 0.013 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Instrument :
MSVOA_L
ClientSampleId :
VL0731ABL01

Tgt Ion:142 Resp: 598
Ion Ratio Lower Upper
142 100
141 55.4 65.8 98.8#
115 46.3 31.2 46.8



#81
1,2,4-Trichlorobenzene
Concen: 0.451 ppbv
RT: 13.445 min Scan# 4127
Delta R.T. 0.006 min
Lab File: VL042789.D
Acq: 31 Jul 2025 09:29

Tgt Ion:180 Resp: 481
Ion Ratio Lower Upper
180 100
182 144.1 76.2 114.2#
184 58.0 24.8 37.2#

