

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060325\
 Data File : VL042604.D
 Acq On : 03 Jun 2025 10:53
 Operator : SY/MD
 Sample : VL0603ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0603ABL01

Quant Time: Jun 04 01:37:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

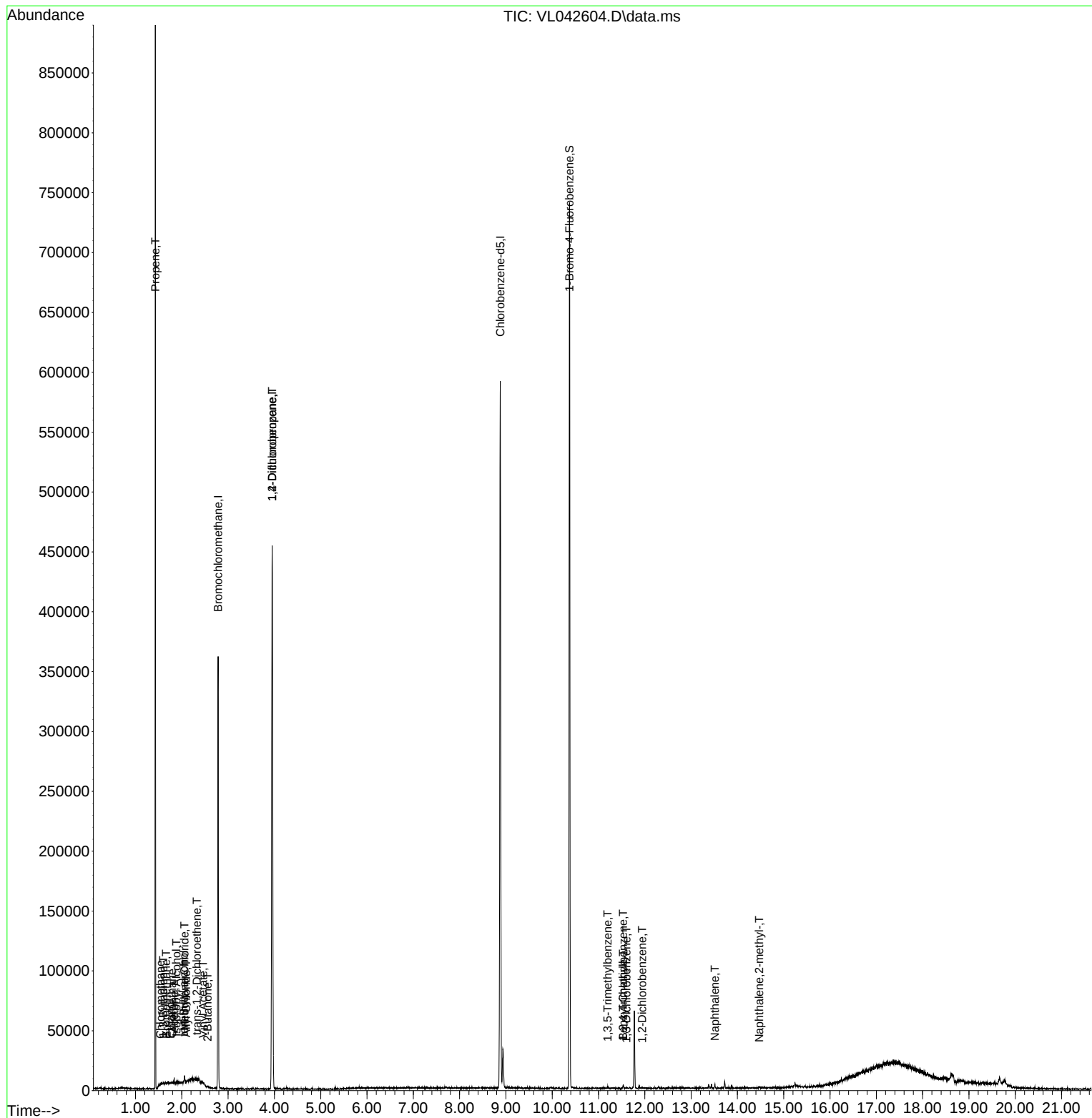
Internal Standards						
1) Bromochloromethane	2.784	49	99329	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	280531	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	249364	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	187874	10.051	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.500%	
Target Compounds						
					Qvalue	
4) Chloromethane	1.535	50	117	0.024	ppbv #	42
6) Bromomethane	1.661	94	30	0.013	ppbv #	5
7) Chloroethane	1.794	64	23	0.012	ppbv #	44
9) Propene	1.431	41	143	0.021	ppbv	88
13) Ethanol	1.755	45	159	0.197	ppbv #	1
15) Acetone	1.836	43	1351	0.113	ppbv	91
16) 1,3-Butadiene	1.599	39	204	0.036	ppbv	88
17) tert-Butyl alcohol	2.043	59	245	0.020	ppbv #	1
19) Isopropyl Alcohol	1.884	45	324	0.045	ppbv #	38
20) Methylene Chloride	2.059	84	775	0.196	ppbv #	87
21) Allyl Chloride	2.091	41	128	0.015	ppbv #	21
22) trans-1,2-Dichloroethene	2.324	96	52	0.011	ppbv #	1
23) Vinyl Acetate	2.457	43	369	0.023	ppbv #	15
34) 2-Butanone	2.558	43	313	0.016	ppbv #	54
39) 1,2-Dichloropropane	3.953	63	68728	6.727	ppbv #	23
66) Benzyl Chloride	11.533	91	228	0.040	ppbv #	67
73) 1,3,5-Trimethylbenzene	11.199	105	482	0.014	ppbv #	80
74) 1,2,4-Trimethylbenzene	11.529	105	444	0.012	ppbv #	72
75) 1,3-Dichlorobenzene	11.601	146	265	0.011	ppbv #	68
77) 1,2-Dichlorobenzene	11.944	146	248	0.011	ppbv	75
79) Naphthalene	13.510	128	1273	0.036	ppbv	97
80) Naphthalene,2-methyl-	14.472	142	629	0.039	ppbv #	75

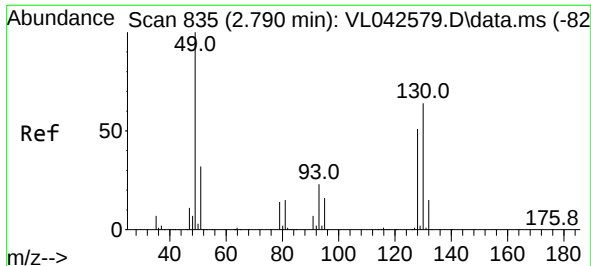
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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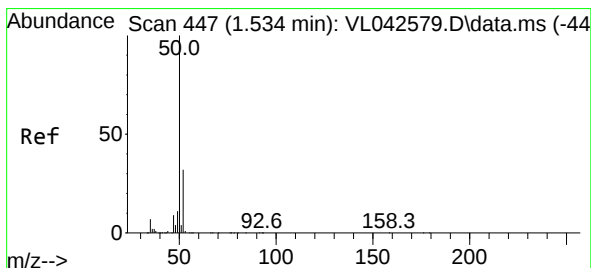
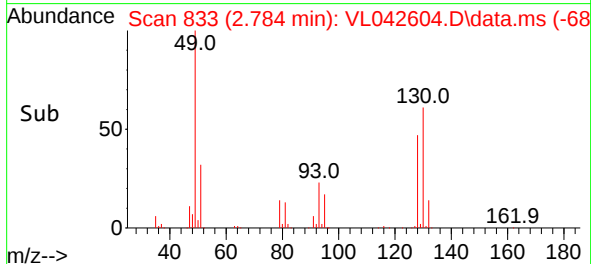
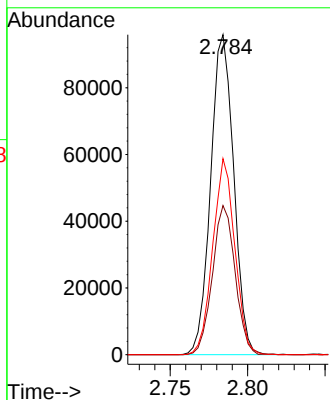
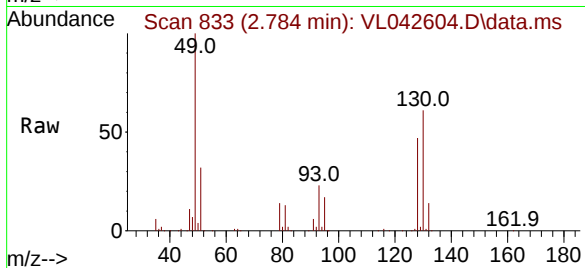




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

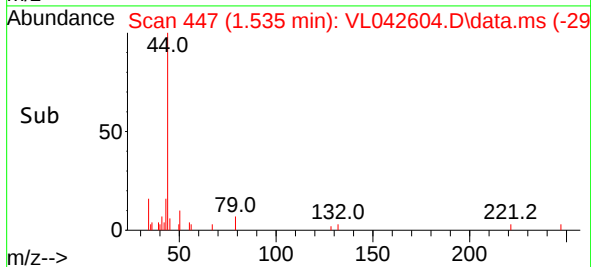
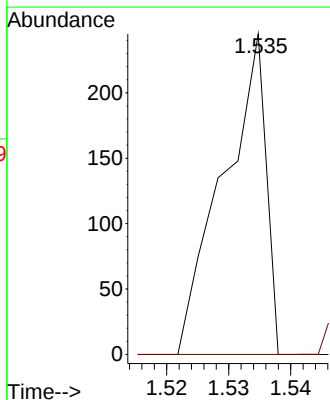
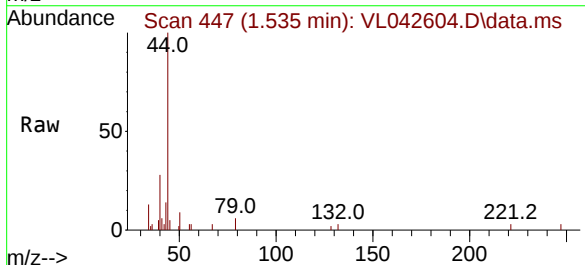
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

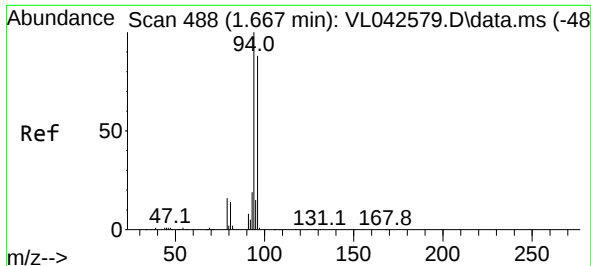
Tgt Ion: 49 Resp: 99329
Ion Ratio Lower Upper
49 100
128 45.8 24.2 72.6
130 58.6 30.4 91.2



#4
Chloromethane
Concen: 0.024 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 50 Resp: 117
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

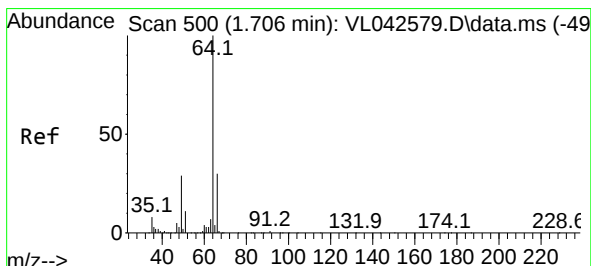
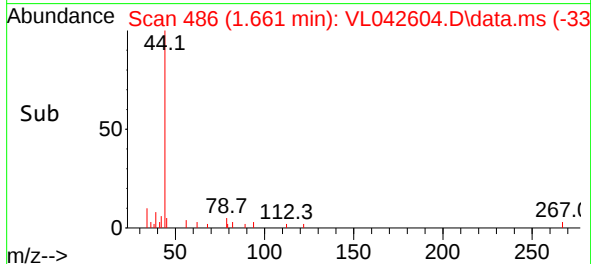
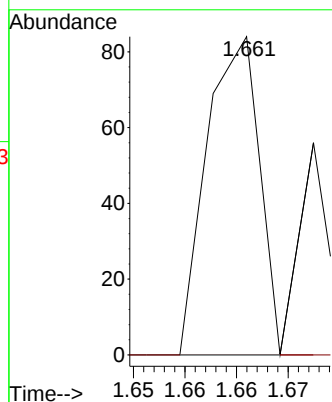
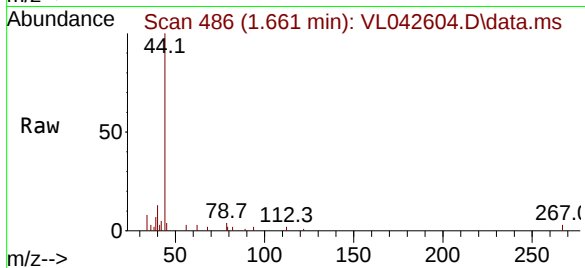




#6
Bromomethane
Concen: 0.013 ppbv
RT: 1.661 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

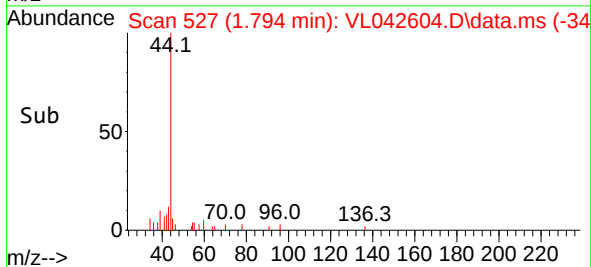
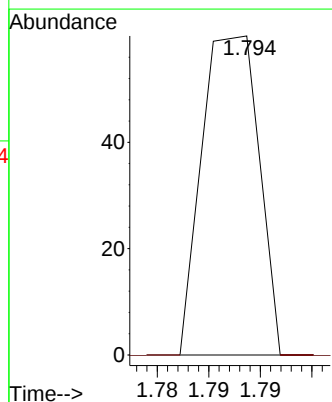
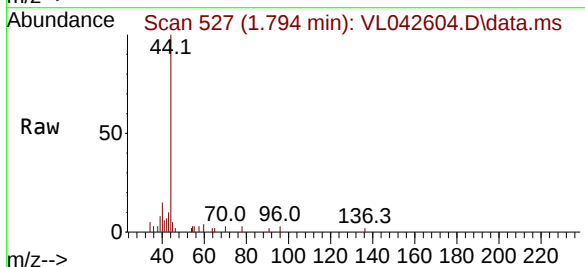
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

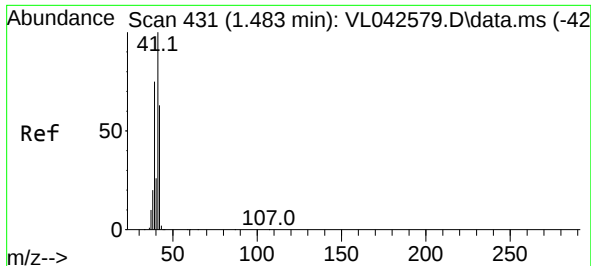
Tgt Ion: 94 Resp: 30
Ion Ratio Lower Upper
94 100
96 0.0 70.7 106.1#



#7
Chloroethane
Concen: 0.012 ppbv
RT: 1.794 min Scan# 527
Delta R.T. 0.088 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 64 Resp: 23
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#

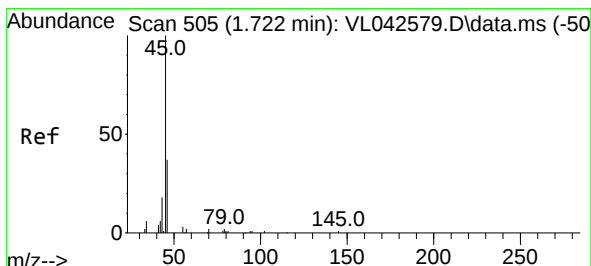
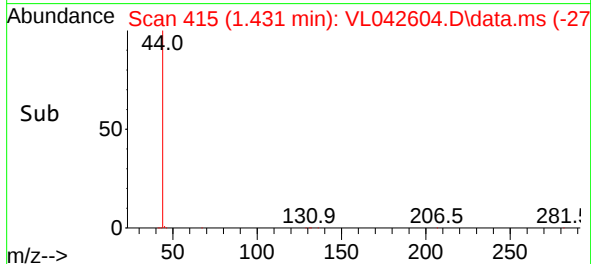
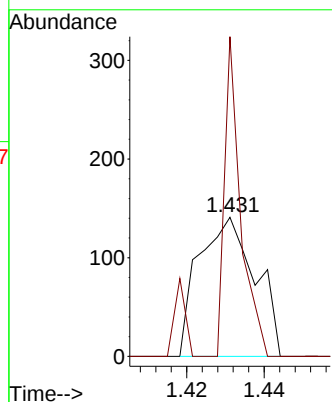
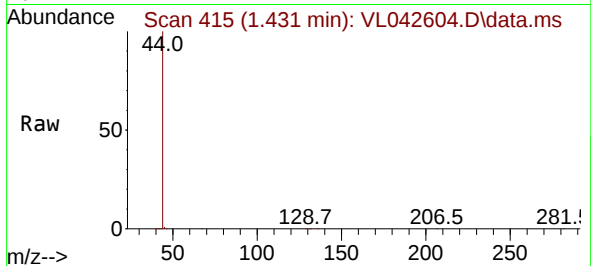




#9
Propene
Concen: 0.021 ppbv
RT: 1.431 min Scan# 41
Delta R.T. -0.051 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

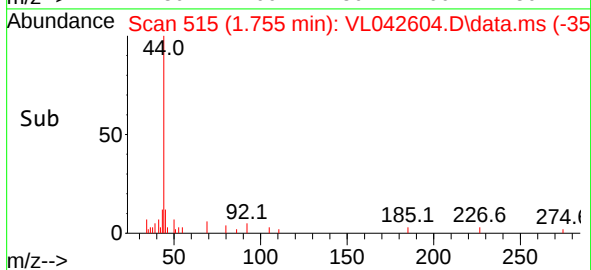
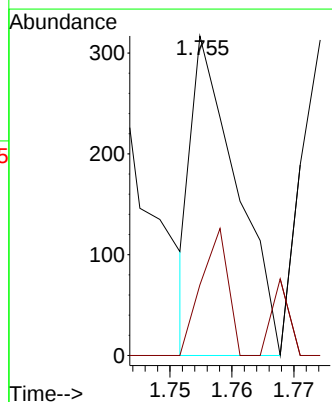
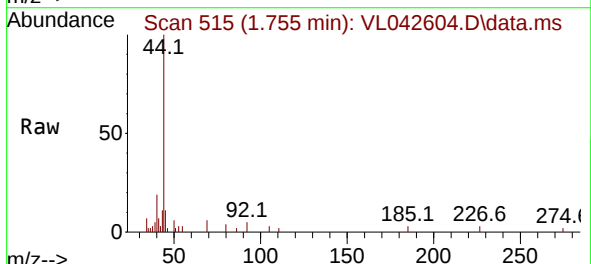
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

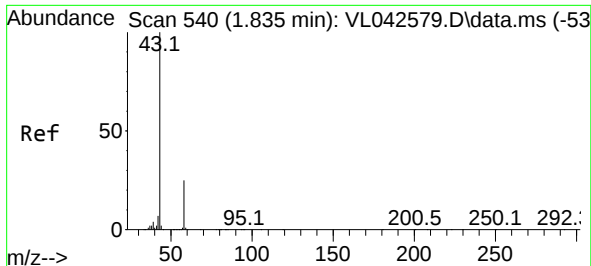
Tgt Ion: 41 Resp: 143
Ion Ratio Lower Upper
41 100
42 76.2 53.3 79.9



#13
Ethanol
Concen: 0.197 ppbv
RT: 1.755 min Scan# 515
Delta R.T. 0.033 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 45 Resp: 159
Ion Ratio Lower Upper
45 100
46 113.8 14.5 58.1#

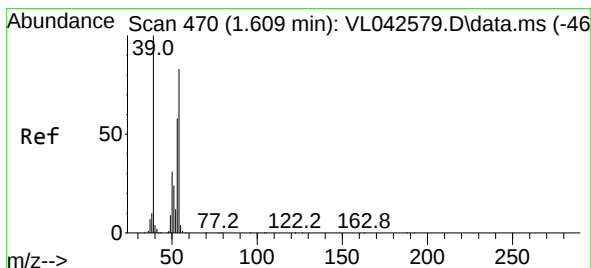
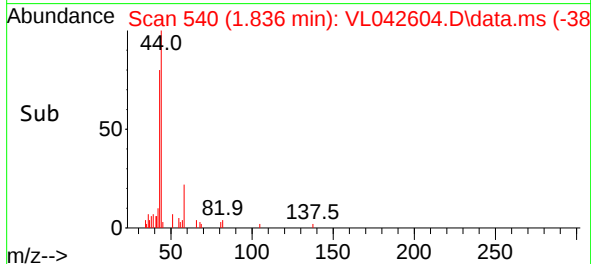
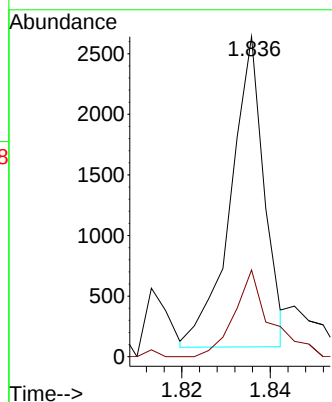
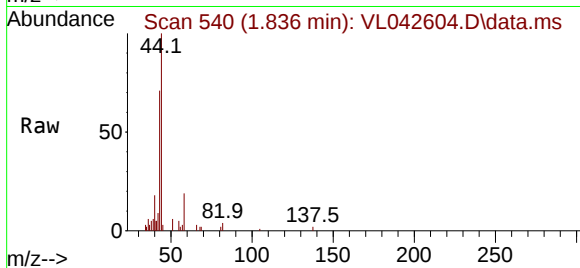




#15
Acetone
Concen: 0.113 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

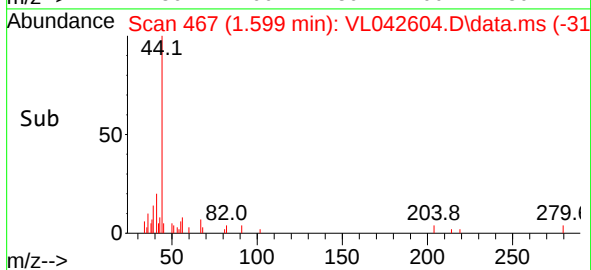
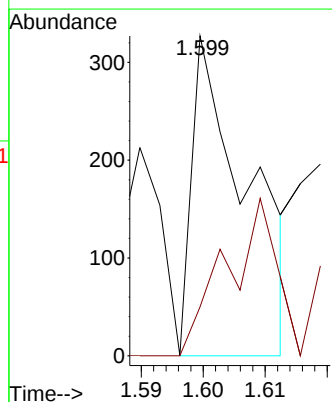
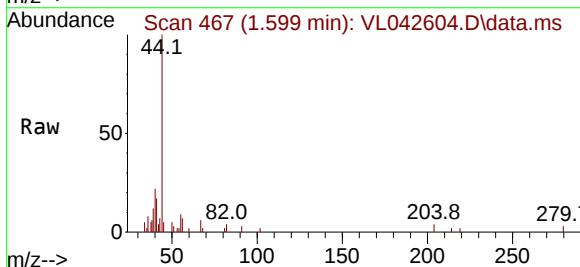
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

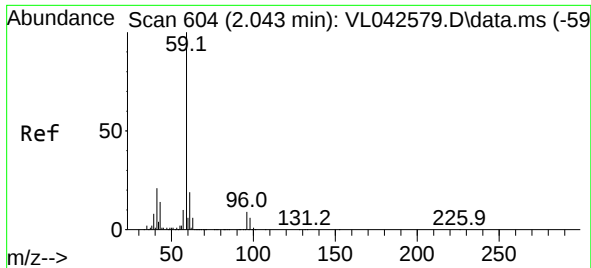
Tgt Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
58 30.9 21.0 31.4



#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.009 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 39 Resp: 204
Ion Ratio Lower Upper
39 100
54 62.7 57.9 86.9





#17

tert-Butyl alcohol

Concen: 0.020 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

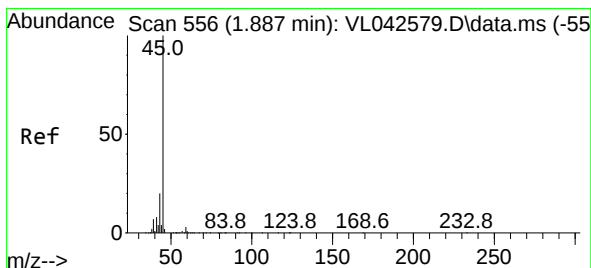
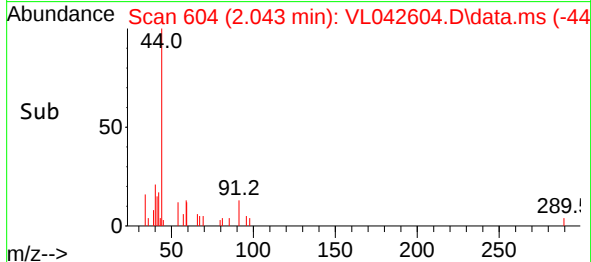
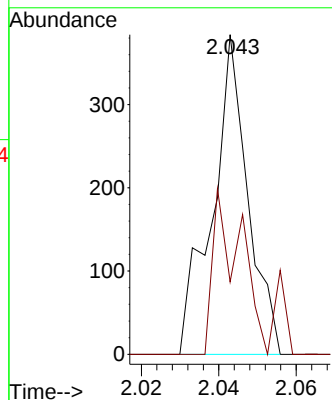
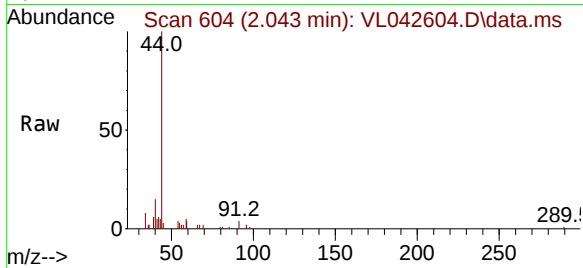
VL0603ABL01

Tgt Ion: 59 Resp: 245

Ion Ratio Lower Upper

59 100

57 48.6 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.045 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.003 min

Lab File: VL042604.D

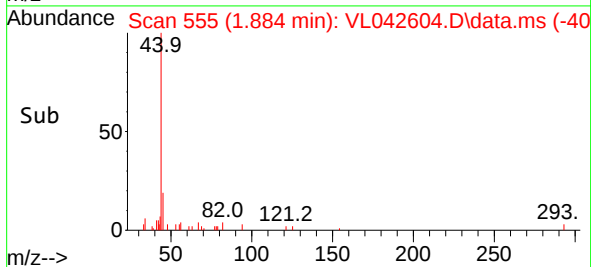
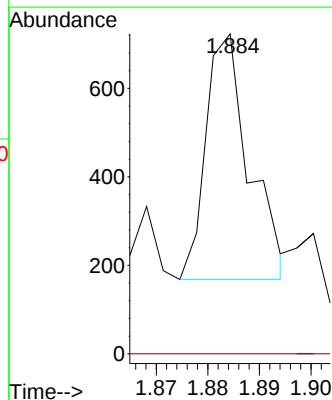
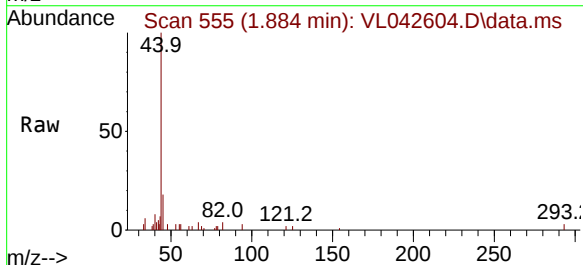
Acq: 03 Jun 2025 10:53

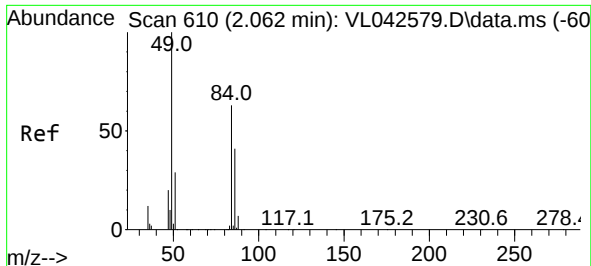
Tgt Ion: 45 Resp: 324

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.2#

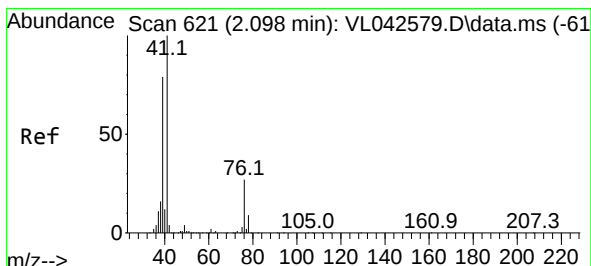
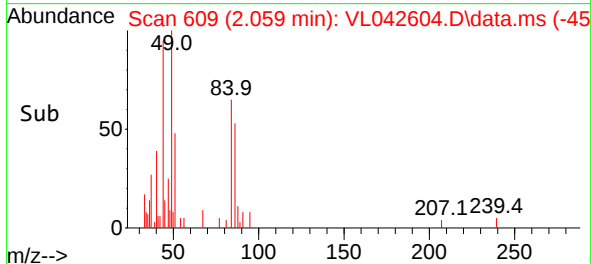
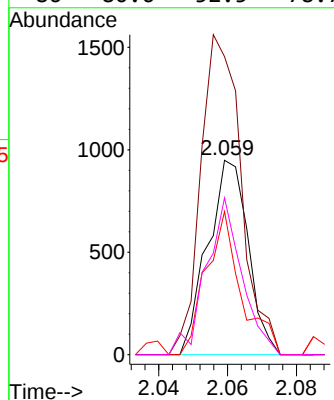
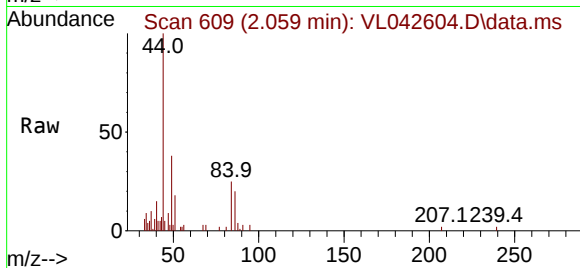




#20
Methylene Chloride
Concen: 0.196 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

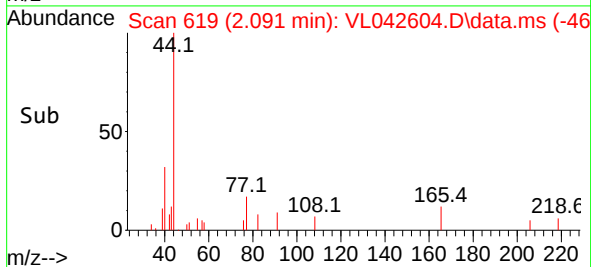
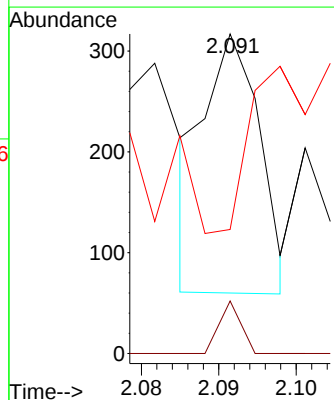
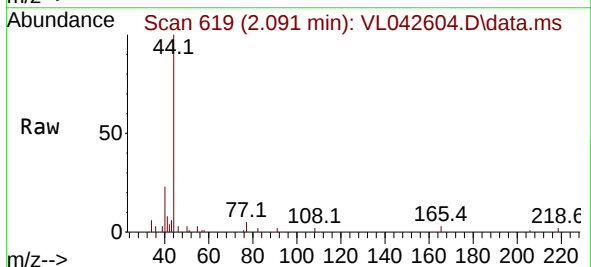
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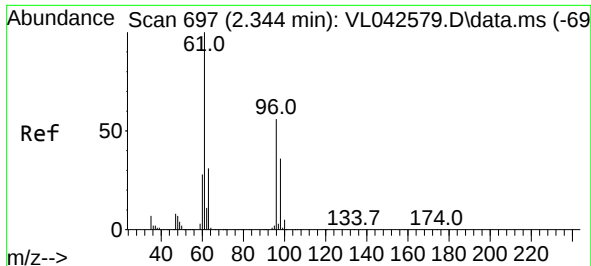
Tgt Ion:	84	Resp:	775
Ion	Ratio	Lower	Upper
84	100		
49	165.2	128.8	193.2
51	73.7	38.6	57.8#
86	80.6	52.5	78.7#



#21
Allyl Chloride
Concen: 0.015 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.006 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion:	41	Resp:	128
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.2	31.8#
39	0.0	60.9	91.3#

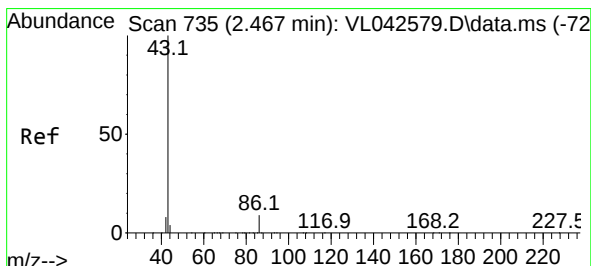
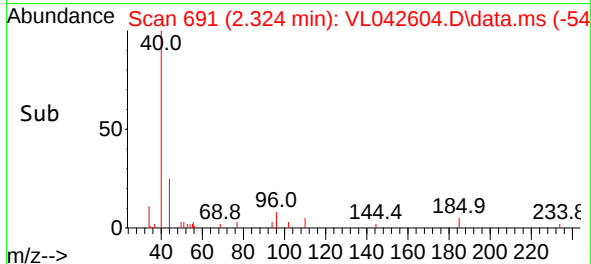
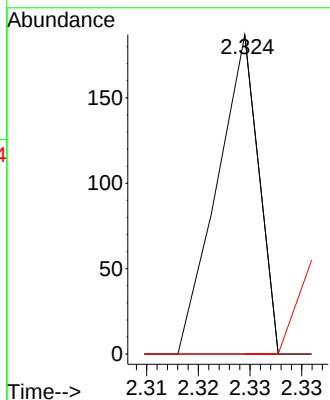
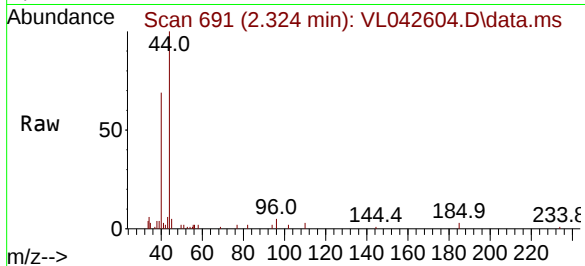




#22
trans-1,2-Dichloroethene
Concen: 0.011 ppbv
RT: 2.324 min Scan# 697
Delta R.T. -0.019 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

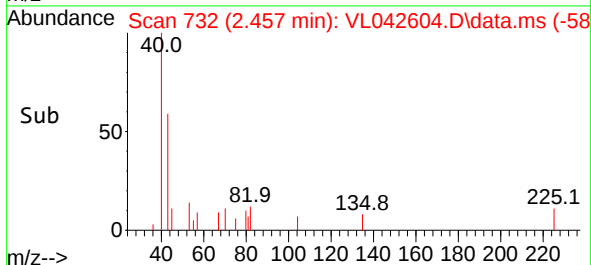
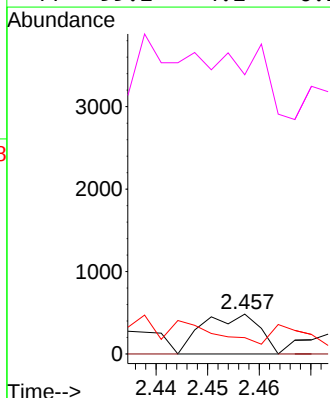
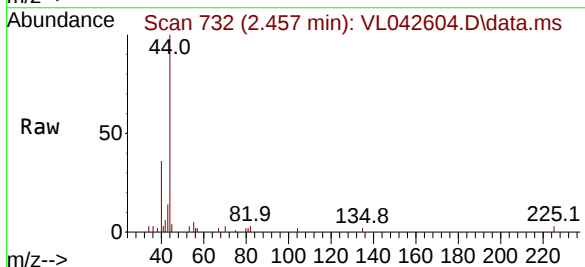
Instrument :
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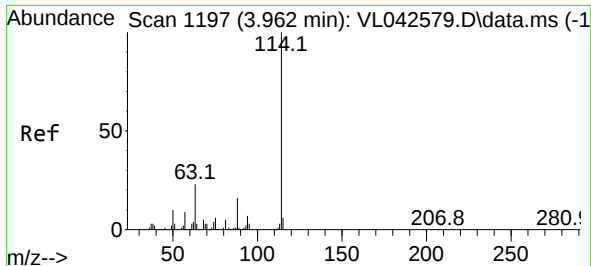
Tgt Ion: 96 Resp: 52
Ion Ratio Lower Upper
96 100
61 0.0 142.6 214.0#
98 0.0 51.0 76.4#



#23
Vinyl Acetate
Concen: 0.023 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.009 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 43 Resp: 369
Ion Ratio Lower Upper
43 100
86 0.0 6.6 9.8#
42 0.0 7.0 10.4#
44 99.2 4.2 6.2#

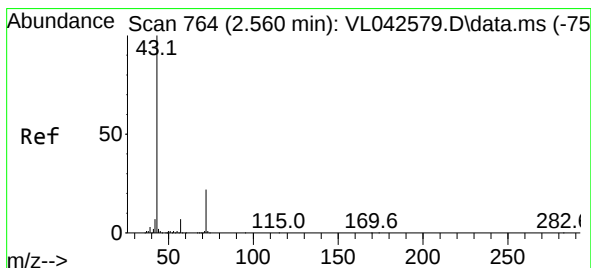
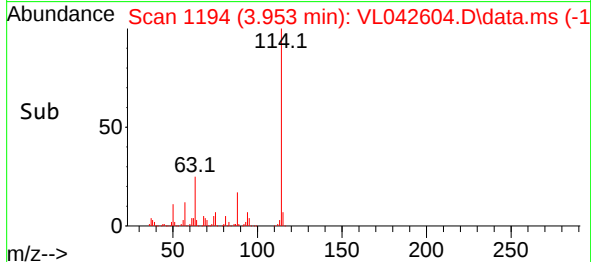
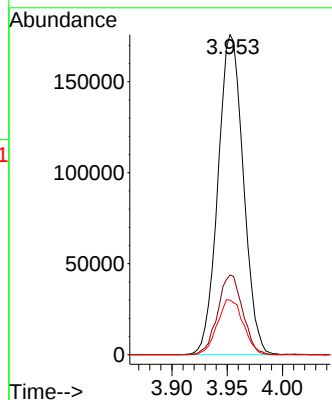
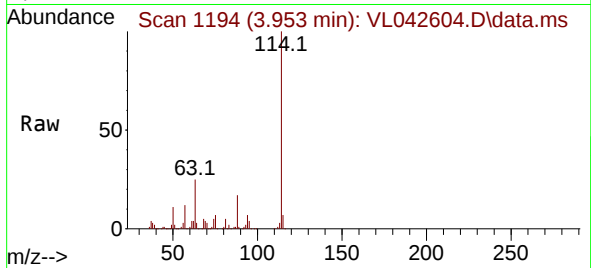




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.009 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

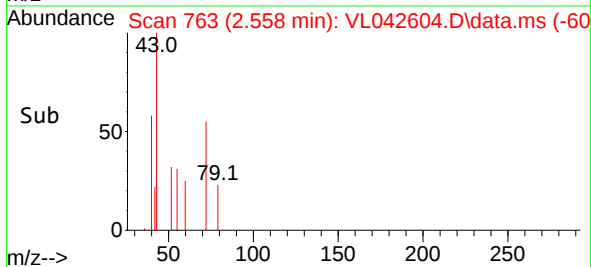
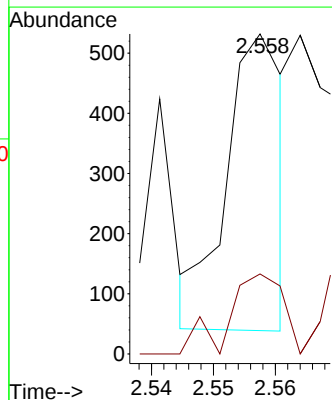
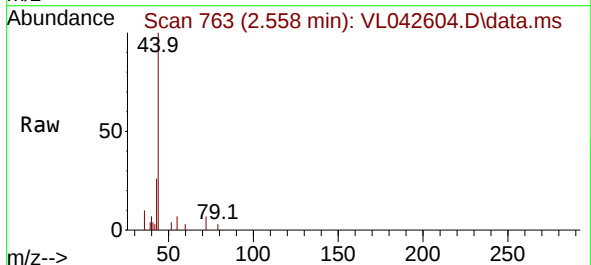
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

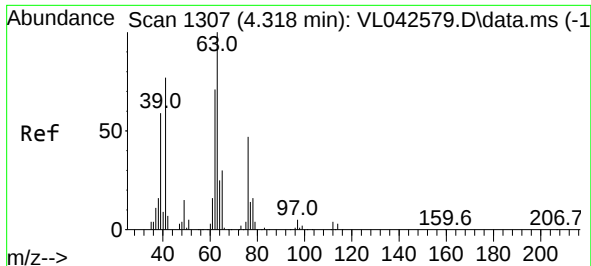
Tgt Ion:114 Resp: 280531
Ion Ratio Lower Upper
114 100
63 24.5 19.0 28.6
88 17.6 13.6 20.4



#34
2-Butanone
Concen: 0.016 ppbv
RT: 2.558 min Scan# 763
Delta R.T. -0.003 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 43 Resp: 313
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#





#39

1,2-Dichloropropane

Concen: 6.727 ppbv

RT: 3.953 min Scan# 1194

Delta R.T. -0.365 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

VL0603ABL01

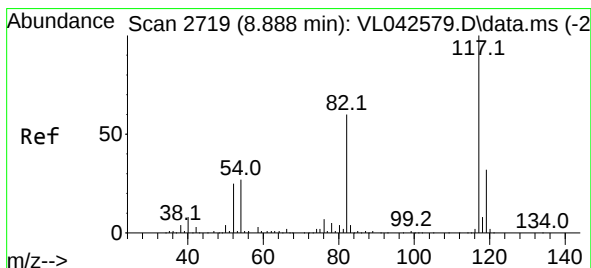
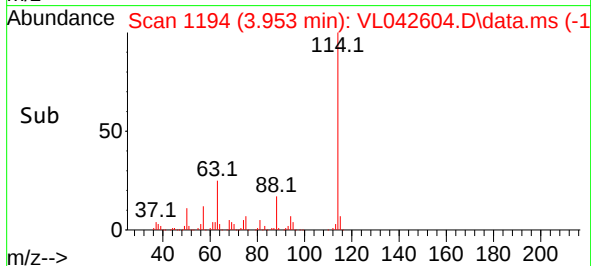
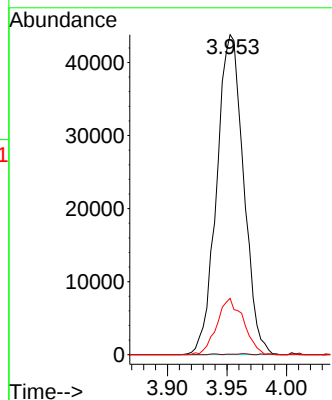
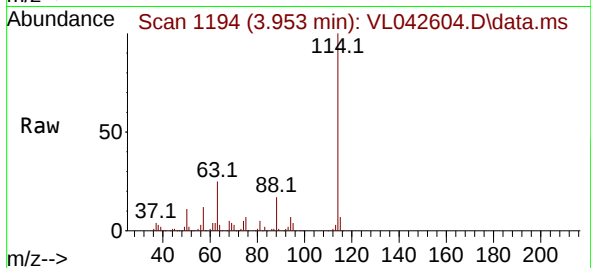
Tgt Ion: 63 Resp: 68728

Ion Ratio Lower Upper

63 100

41 0.1 61.8 92.6#

62 17.6 56.6 85.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. -0.009 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

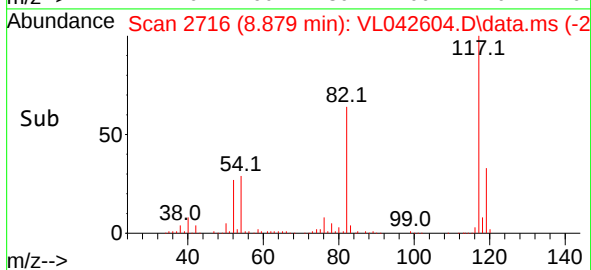
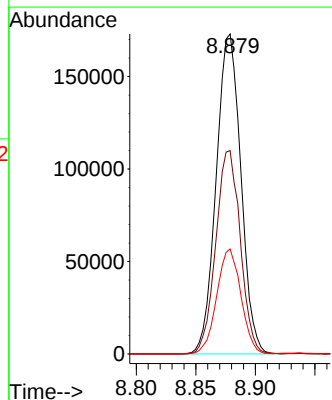
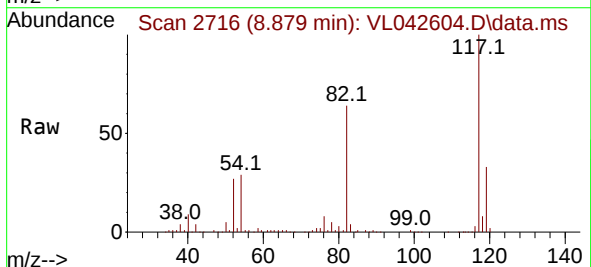
Tgt Ion: 117 Resp: 249364

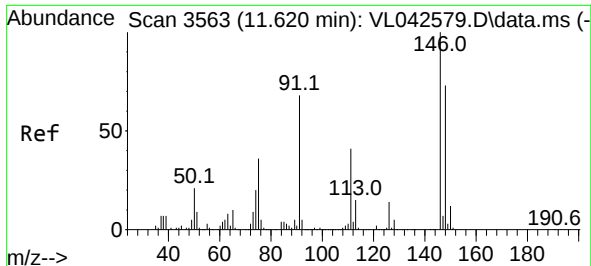
Ion Ratio Lower Upper

117 100

82 63.0 51.2 76.8

119 32.5 26.3 39.5

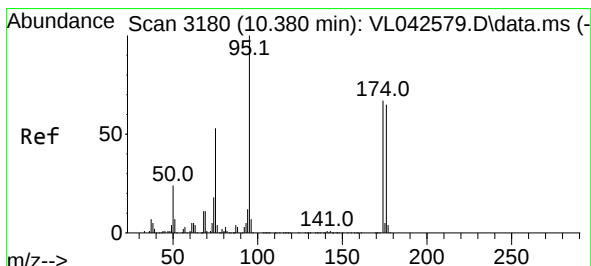
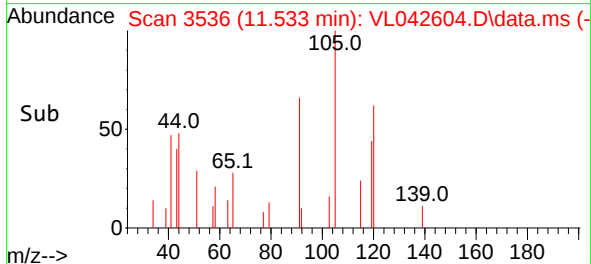
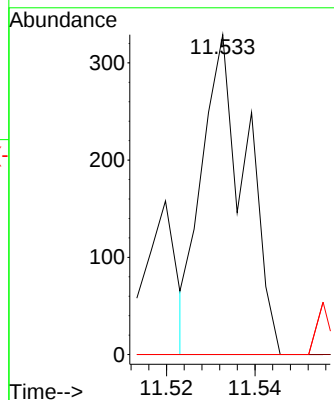
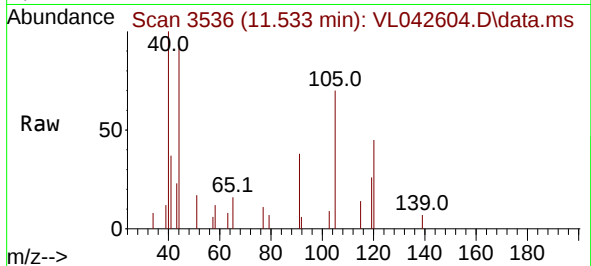




#66
Benzyl Chloride
Concen: 0.040 ppbv
RT: 11.533 min Scan# 3177
Delta R.T. -0.087 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

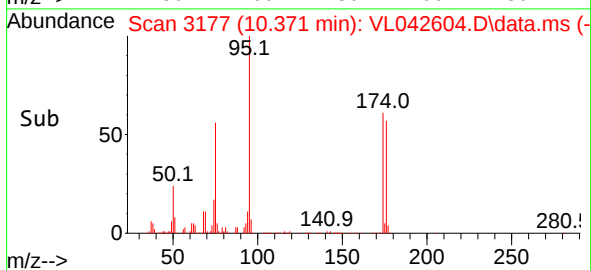
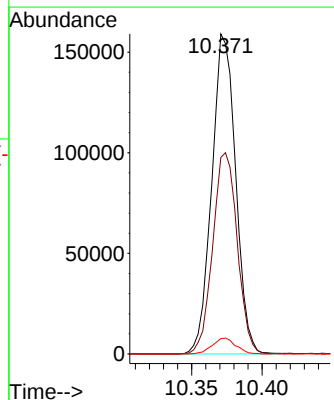
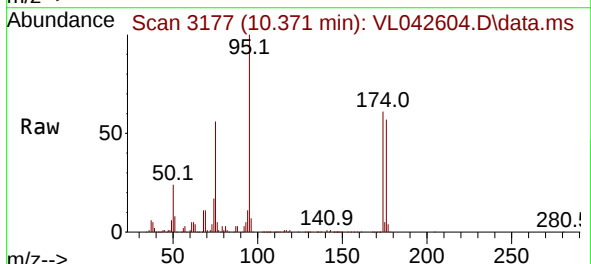
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

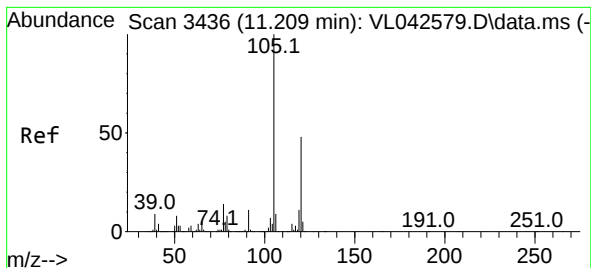
Tgt Ion: 91 Resp: 228
Ion Ratio Lower Upper
91 100
126 0.0 15.1 22.7#
128 4.4 5.0 7.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.051 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.009 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion: 95 Resp: 187874
Ion Ratio Lower Upper
95 100
174 64.8 53.1 79.7
175 4.9 4.2 6.2





#73

1,3,5-Trimethylbenzene

Concen: 0.014 ppbv

RT: 11.199 min Scan# 3436

Delta R.T. -0.009 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

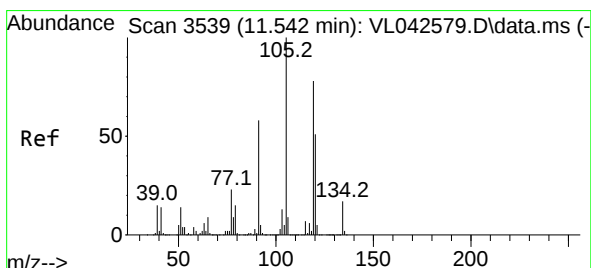
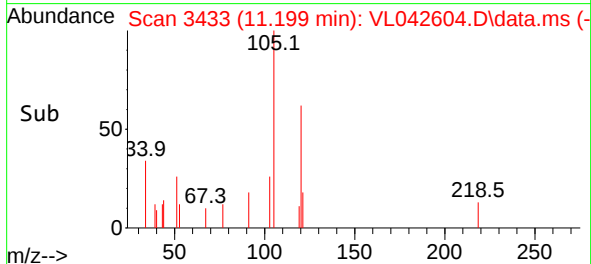
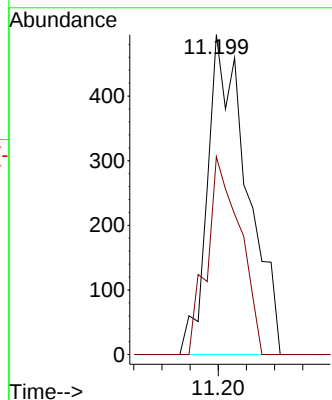
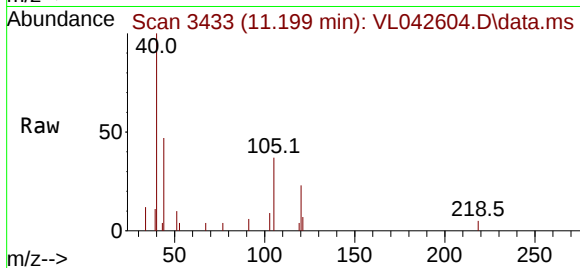
VL0603ABL01

Tgt Ion:105 Resp: 482

Ion Ratio Lower Upper

105 100

120 61.8 38.8 58.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.012 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.013 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Tgt Ion:105 Resp: 444

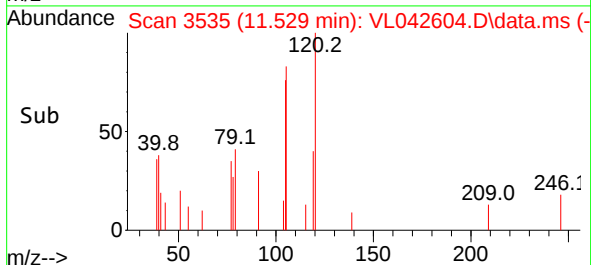
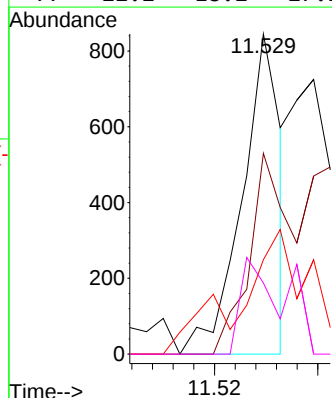
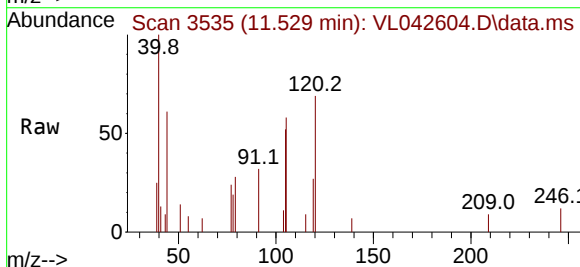
Ion Ratio Lower Upper

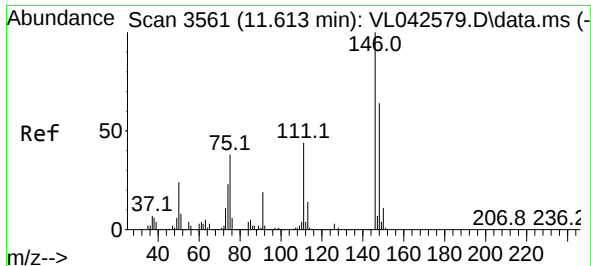
105 100

120 62.7 40.8 61.2#

91 22.6 46.8 70.2#

77 22.2 18.2 27.2

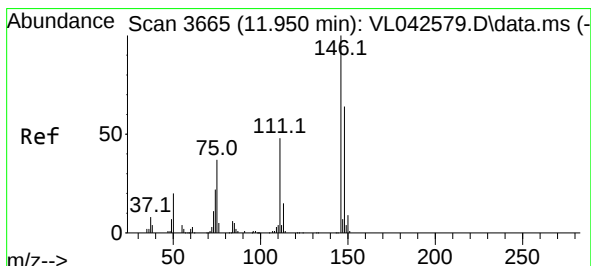
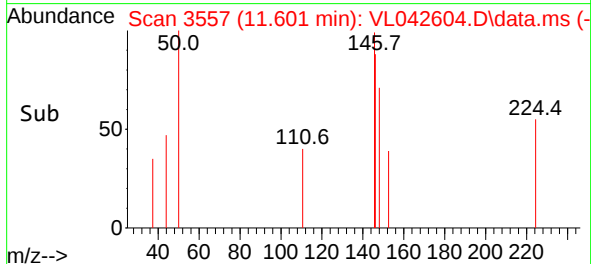
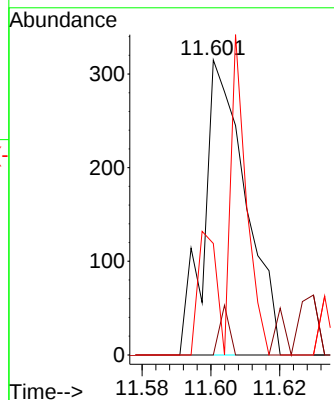
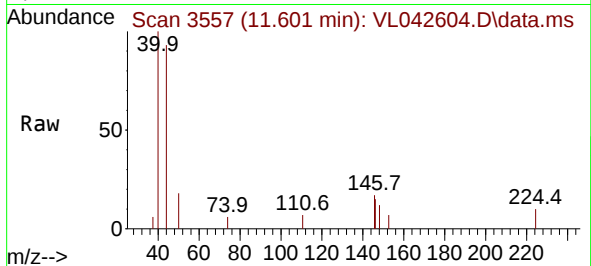




#75
1,3-Dichlorobenzene
Concen: 0.011 ppbv
RT: 11.601 min Scan# 3557
Delta R.T. -0.013 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

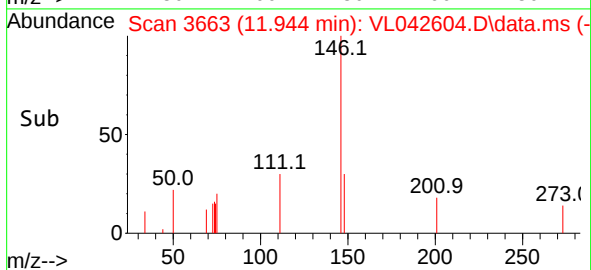
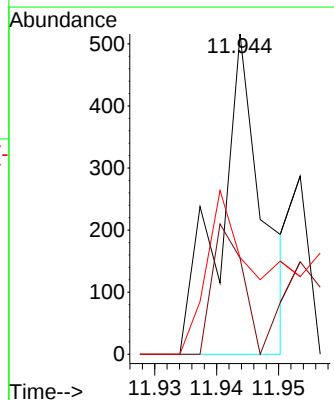
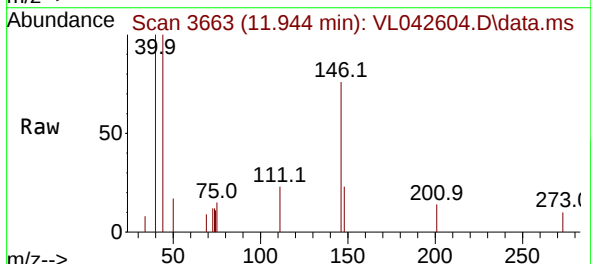
Instrument :
MSVOA_L
ClientSampleId :
VL0603ABL01

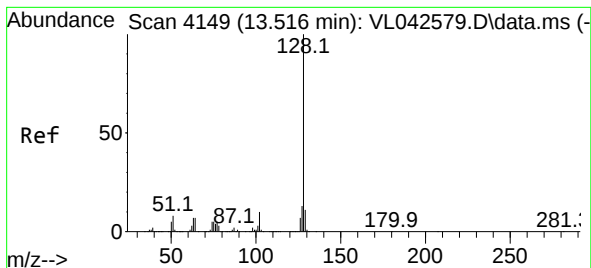
Tgt Ion:146 Resp: 265
Ion Ratio Lower Upper
146 100
111 0.0 22.4 67.3#
148 59.2 32.0 96.2



#77
1,2-Dichlorobenzene
Concen: 0.011 ppbv
RT: 11.944 min Scan# 3663
Delta R.T. -0.006 min
Lab File: VL042604.D
Acq: 03 Jun 2025 10:53

Tgt Ion:146 Resp: 248
Ion Ratio Lower Upper
146 100
111 55.2 23.1 69.3
148 89.9 32.1 96.3





#79

Naphthalene

Concen: 0.036 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.006 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Instrument :

MSVOA_L

ClientSampleId :

VL0603ABL01

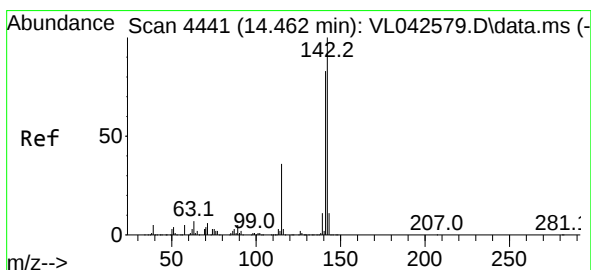
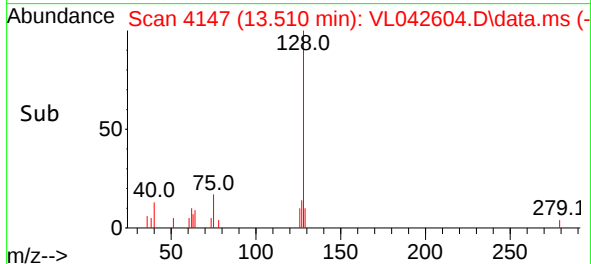
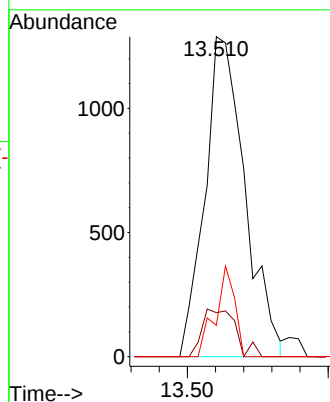
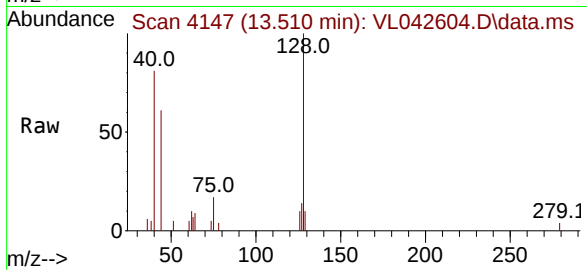
Tgt Ion:128 Resp: 1273

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.4

129 9.8 8.8 13.2



#80

Naphthalene,2-methyl-

Concen: 0.039 ppbv

RT: 14.472 min Scan# 4444

Delta R.T. 0.010 min

Lab File: VL042604.D

Acq: 03 Jun 2025 10:53

Tgt Ion:142 Resp: 629

Ion Ratio Lower Upper

142 100

141 50.9 66.2 99.4#

115 34.5 28.3 42.5

