

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043102.D
 Acq On : 10 Oct 2025 07:46
 Operator : SY/MD
 Sample : Q3320-02DL 200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Oct 10 08:19:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	154952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	402038	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	367716	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.357	95	313406	11.831	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	118.300%

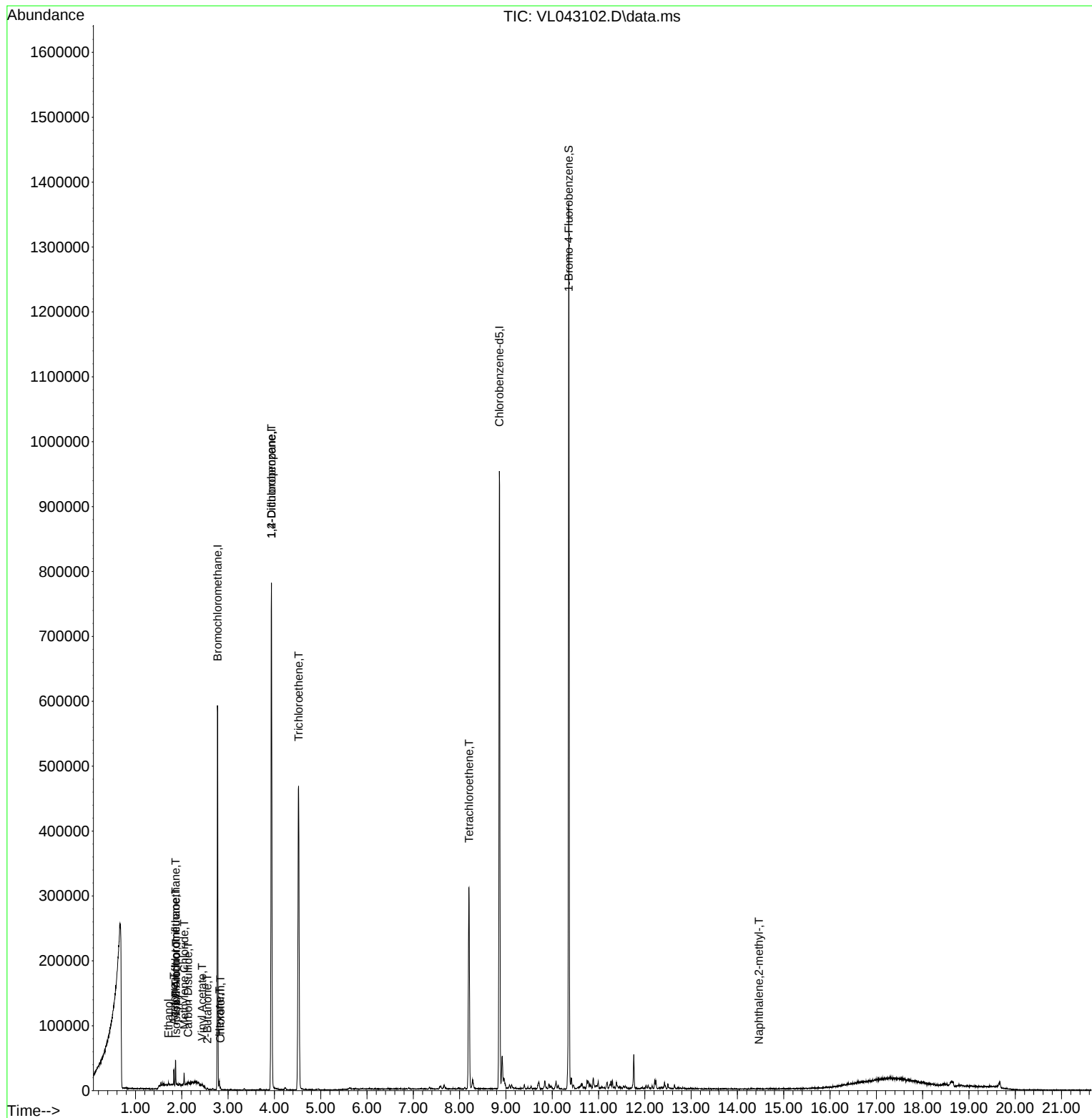
Target Compounds						Qvalue
11) Trichlorofluoromethane	1.868	101	10100	0.376	ppbv	97
12) 1,1,2-Trichlorotrifluo...	1.868	101	10100	0.478	ppbv #	13
13) Ethanol	1.712	45	969	1.355	ppbv	77
15) Acetone	1.829	43	10140	0.467	ppbv #	85
19) Isopropyl Alcohol	1.877	45	1023	0.098	ppbv #	25
20) Methylene Chloride	2.052	84	2844	0.300	ppbv #	92
23) Vinyl Acetate	2.441	43	380	0.082	ppbv #	1
26) Hexane	2.813	57	2075	0.099	ppbv #	30
27) Carbon Disulfide	2.136	76	1187	0.048	ppbv #	1
29) Chloroform	2.832	83	1255	0.035	ppbv #	76
34) 2-Butanone	2.551	43	1364	0.050	ppbv	94
38) Trichloroethene	4.522	130	127016	7.938	ppbv	94
39) 1,2-Dichloropropane	3.936	63	104217	7.320	ppbv #	23
52) Tetrachloroethene	8.202	164	54422	3.826	ppbv	95
80) Naphthalene,2-methyl-	14.468	142	83	0.666	ppbv #	77

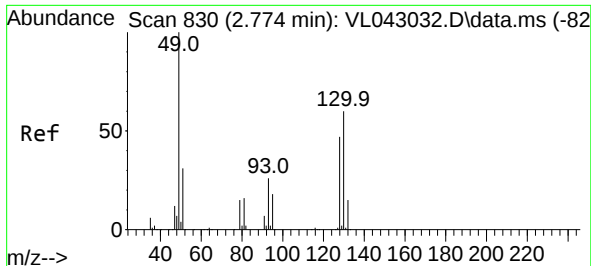
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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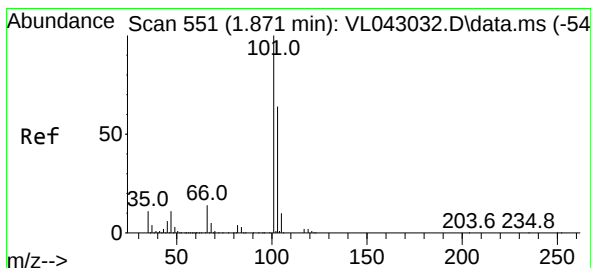
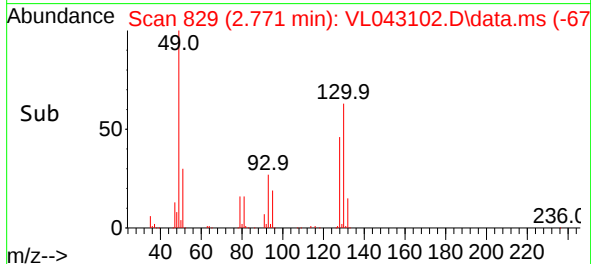
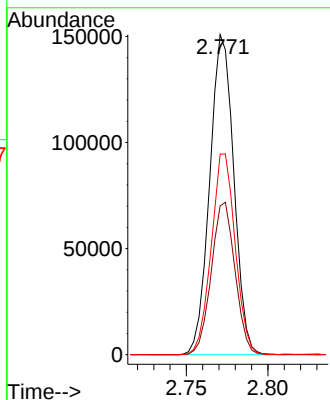
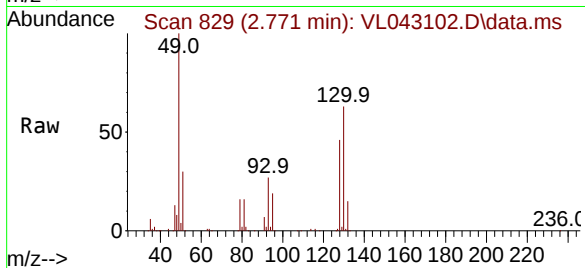




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

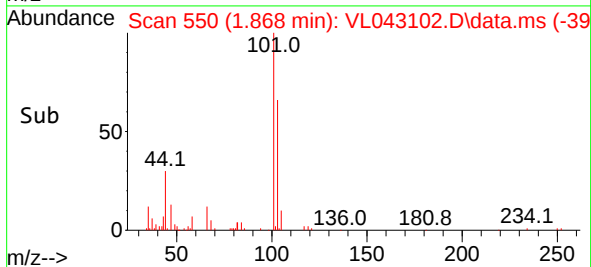
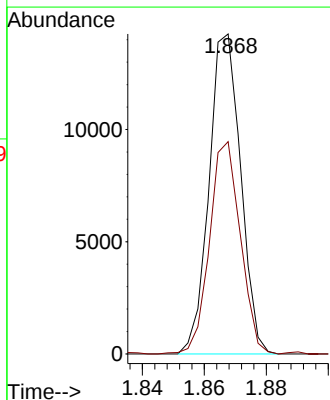
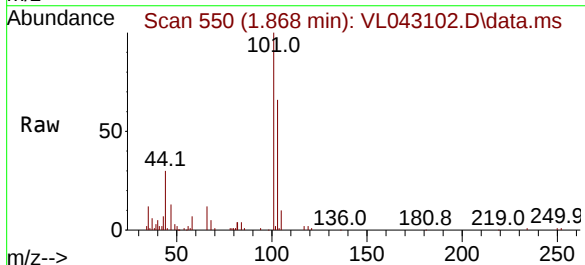
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

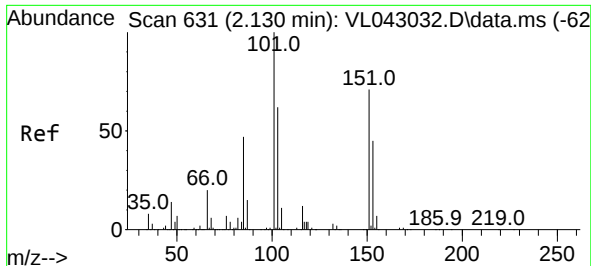
Tgt Ion: 49 Resp: 154952
Ion Ratio Lower Upper
49 100
128 47.0 24.1 72.2
130 62.5 31.4 94.3



#11
Trichlorofluoromethane
Concen: 0.376 ppbv
RT: 1.868 min Scan# 550
Delta R.T. -0.003 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

Tgt Ion:101 Resp: 10100
Ion Ratio Lower Upper
101 100
103 66.4 51.1 76.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.478 ppbv

RT: 1.868 min Scan# 501

Delta R.T. -0.262 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Instrument :

MSVOA_L

ClientSampleId :

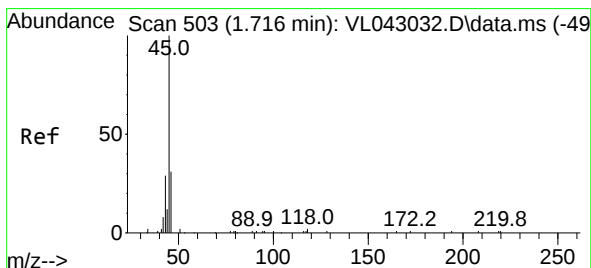
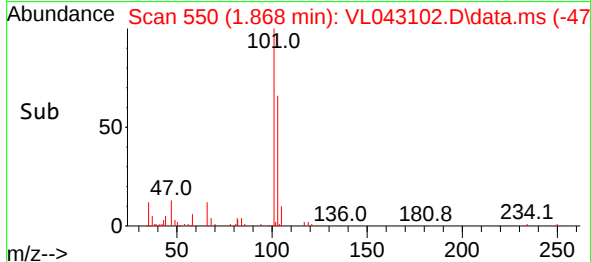
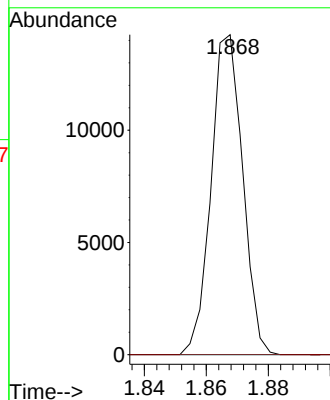
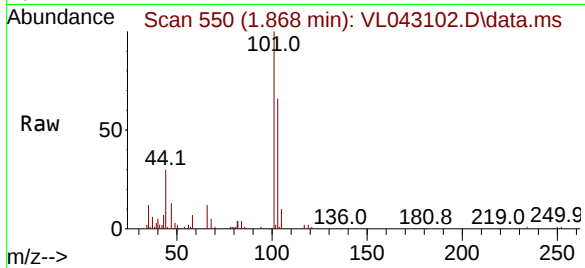
SV1DL

Tgt Ion:101 Resp: 10100

Ion Ratio Lower Upper

101 100

151 0.0 58.1 87.1#



#13

Ethanol

Concen: 1.355 ppbv

RT: 1.712 min Scan# 502

Delta R.T. -0.004 min

Lab File: VL043102.D

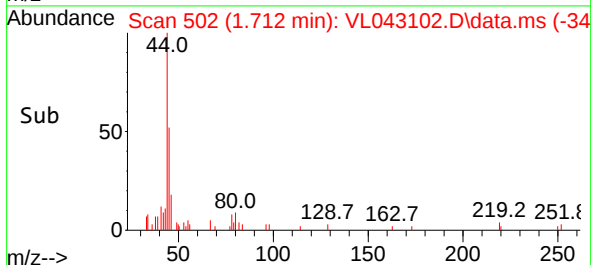
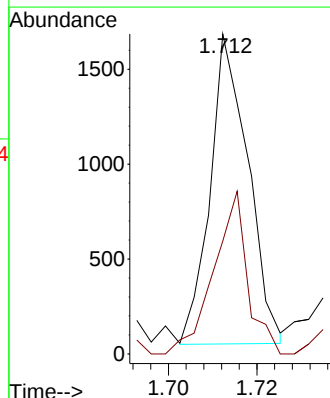
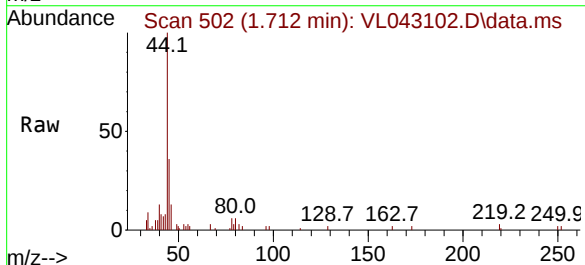
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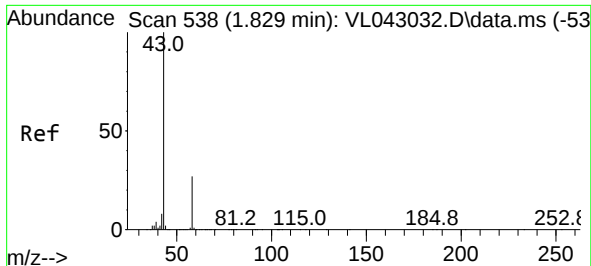
Tgt Ion: 45 Resp: 969

Ion Ratio Lower Upper

45 100

46 59.6 17.8 71.4





#15

Acetone

Concen: 0.467 ppbv

RT: 1.829 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Instrument :

MSVOA_L

ClientSampleId :

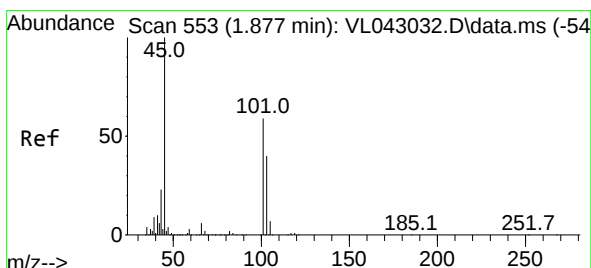
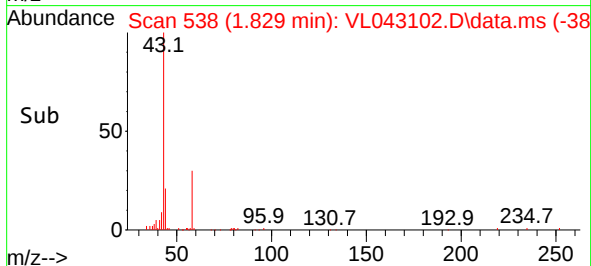
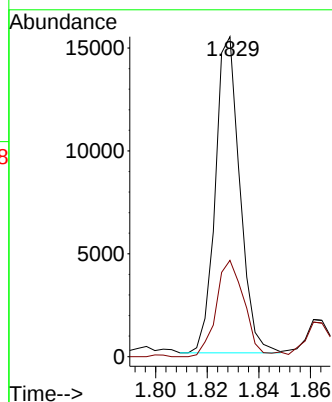
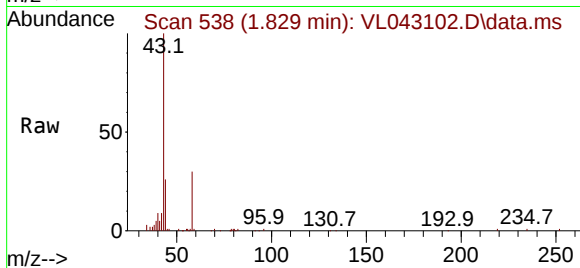
SV1DL

Tgt Ion: 43 Resp: 10140

Ion Ratio Lower Upper

43 100

58 35.7 22.2 33.4#



#19

Isopropyl Alcohol

Concen: 0.098 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.000 min

Lab File: VL043102.D

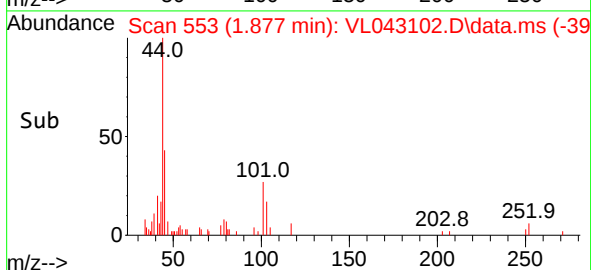
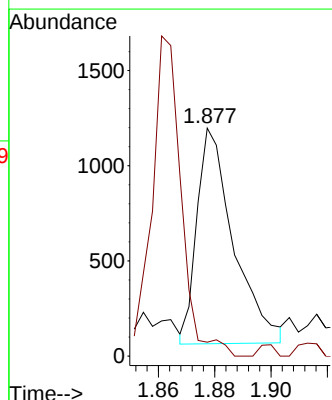
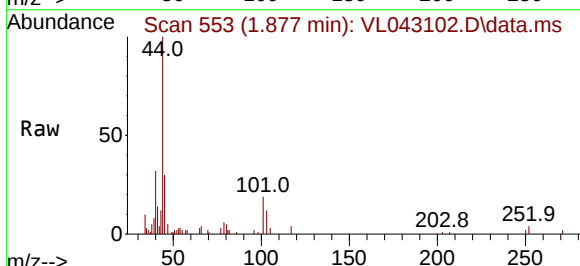
Acq: 10 Oct 2025 07:46

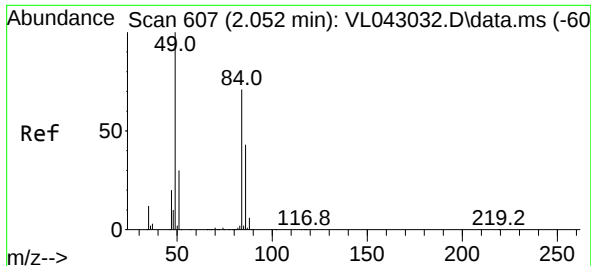
Tgt Ion: 45 Resp: 1023

Ion Ratio Lower Upper

45 100

58 0.0 42.3 63.5#





#20

Methylene Chloride

Concen: 0.300 ppbv

RT: 2.052 min Scan# 607

Delta R.T. -0.000 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 84 Resp: 2844

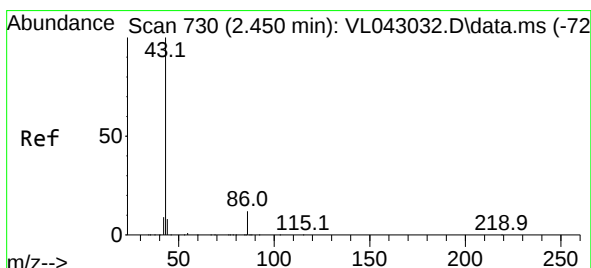
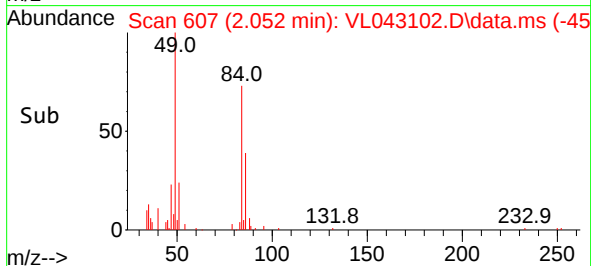
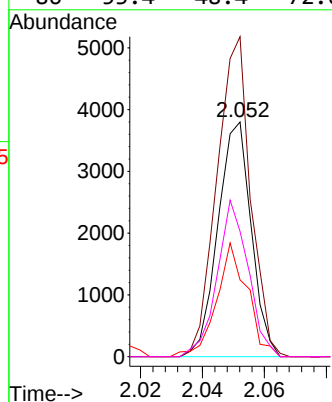
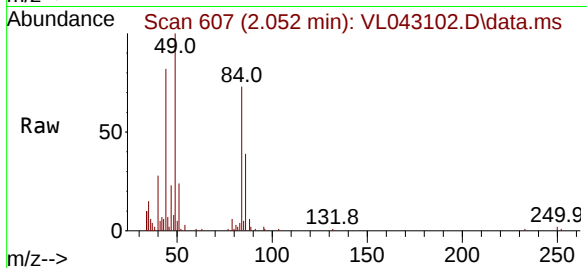
Ion Ratio Lower Upper

84 100

49 134.9 112.5 168.7

51 32.7 34.2 51.2#

86 53.4 48.4 72.6



#23

Vinyl Acetate

Concen: 0.082 ppbv

RT: 2.441 min Scan# 727

Delta R.T. -0.010 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Tgt Ion: 43 Resp: 380

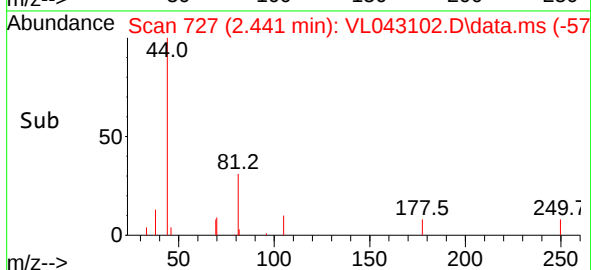
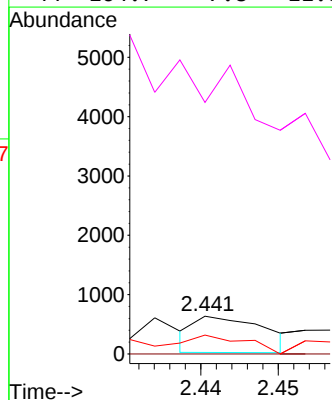
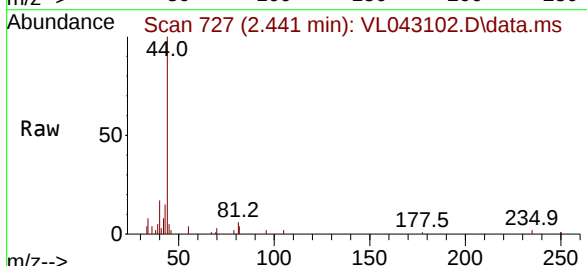
Ion Ratio Lower Upper

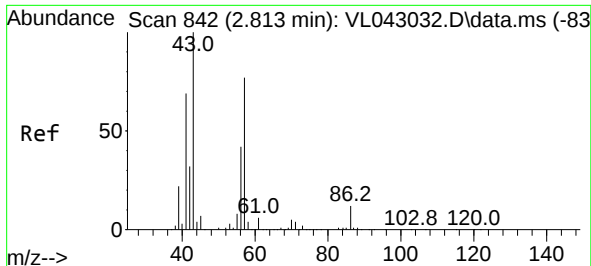
43 100

86 0.0 7.5 11.3#

42 111.5 8.4 12.6#

44 164.7 7.8 11.8#

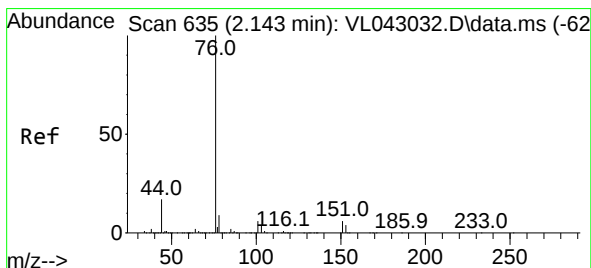
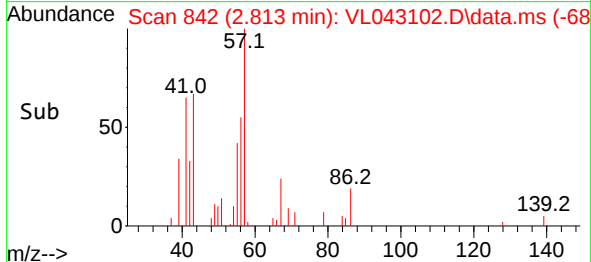
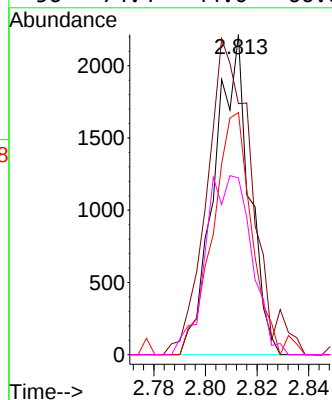
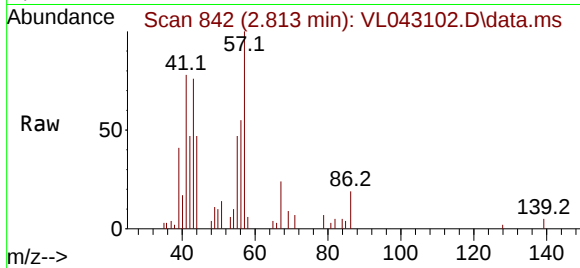




#26
Hexane
Concen: 0.099 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.000 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

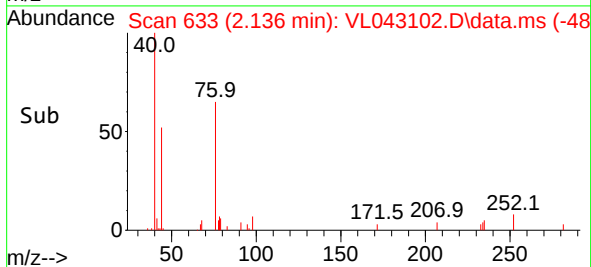
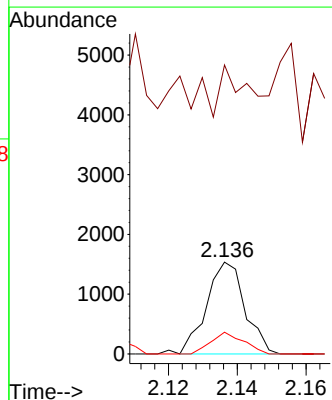
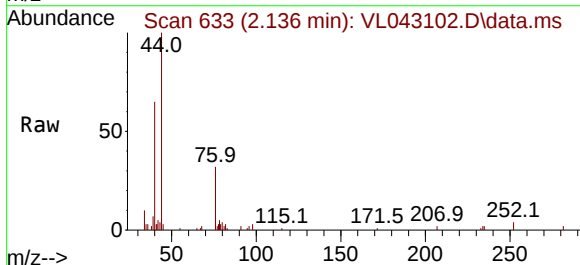
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

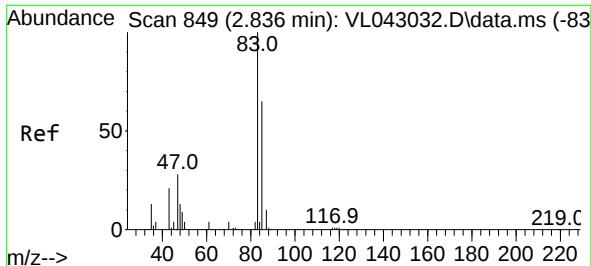
Tgt Ion:	57	Resp:	2075
Ion	Ratio	Lower	Upper
57	100		
41	127.1	76.1	114.1#
43	87.1	201.4	302.0#
56	74.4	44.0	66.0#



#27
Carbon Disulfide
Concen: 0.048 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.007 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

Tgt Ion:	76	Resp:	1187
Ion	Ratio	Lower	Upper
76	100		
44	1071.5	14.0	21.0#
78	20.2	9.4	14.0#





#29

Chloroform

Concen: 0.035 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.003 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Instrument :

MSVOA_L

ClientSampleId :

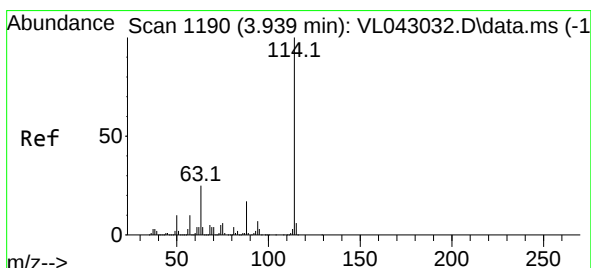
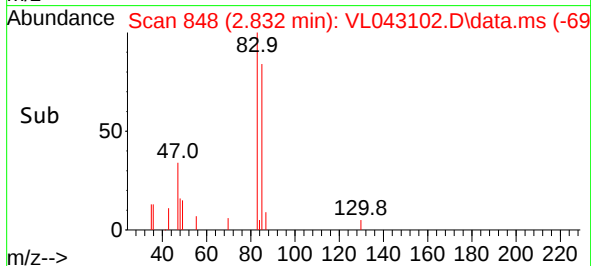
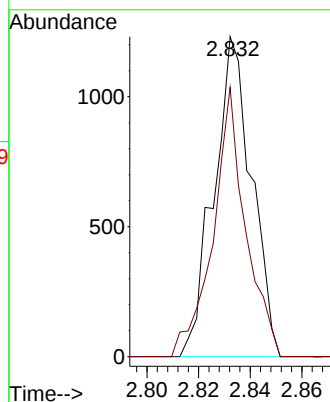
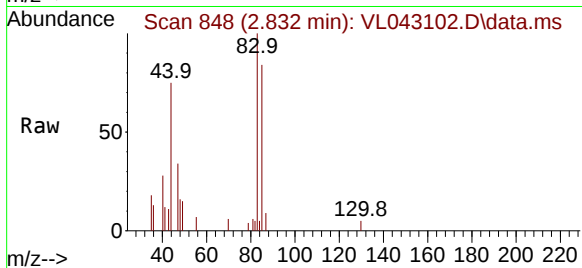
SV1DL

Tgt Ion: 83 Resp: 1255

Ion Ratio Lower Upper

83 100

85 84.2 52.0 78.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.936 min Scan# 1189

Delta R.T. -0.003 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

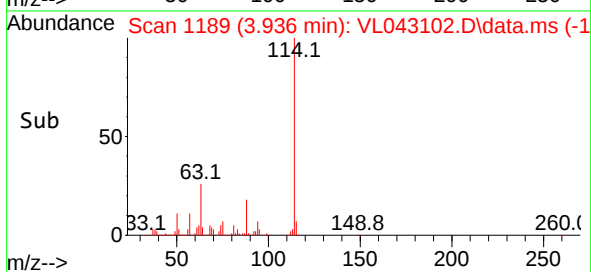
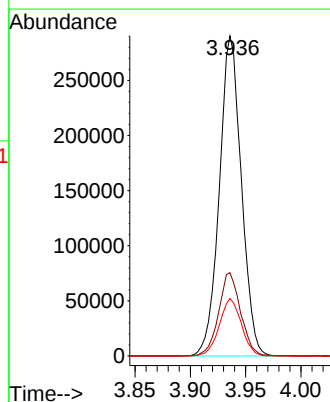
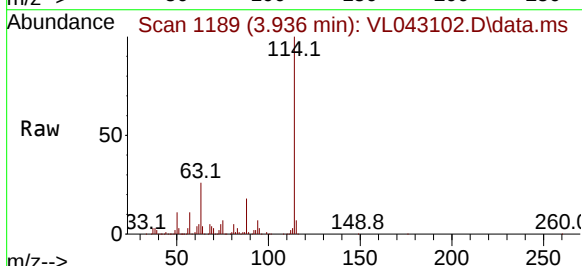
Tgt Ion:114 Resp: 402038

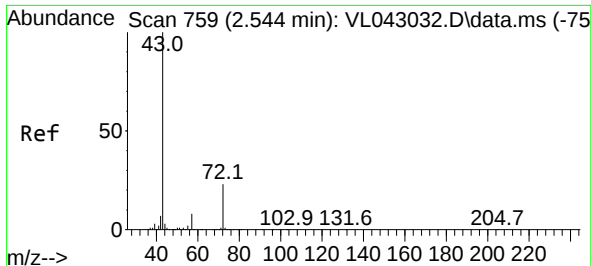
Ion Ratio Lower Upper

114 100

63 26.0 19.4 29.2

88 17.9 13.9 20.9

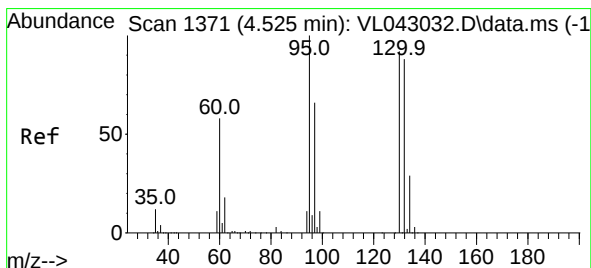
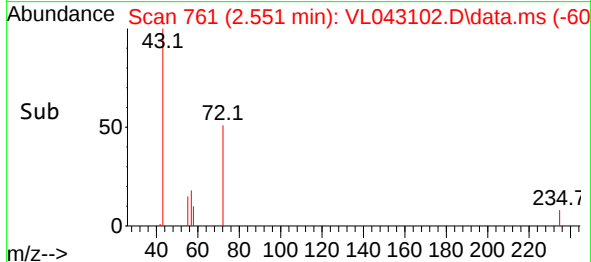
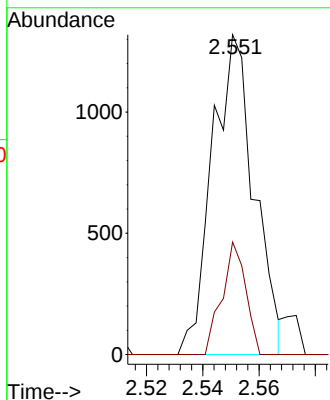
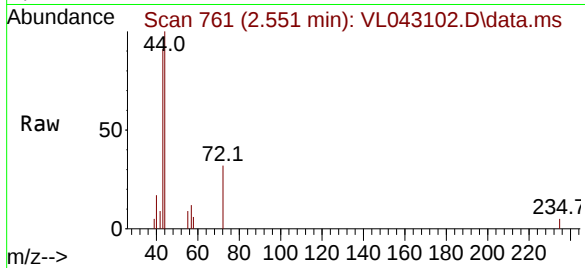




#34
2-Butanone
Concen: 0.050 ppbv
RT: 2.551 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

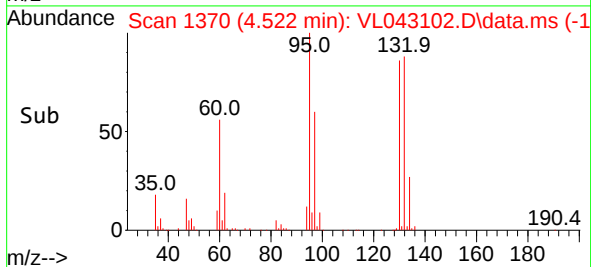
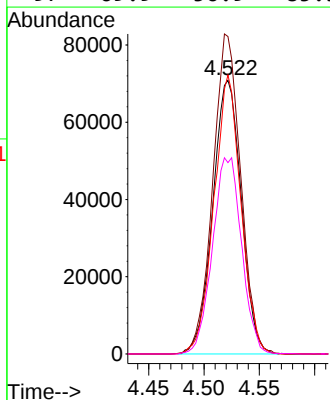
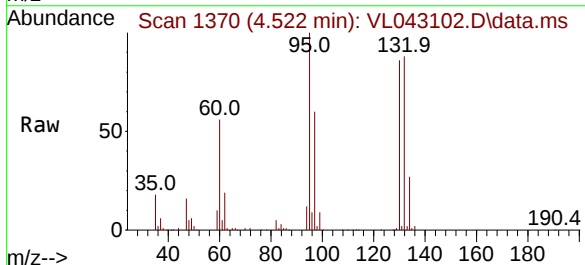
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

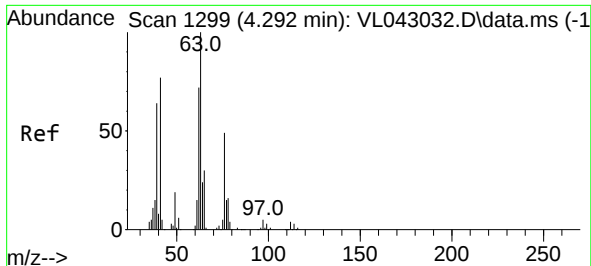
Tgt Ion: 43 Resp: 1364
Ion Ratio Lower Upper
43 100
72 19.9 18.4 27.6



#38
Trichloroethene
Concen: 7.938 ppbv
RT: 4.522 min Scan# 1370
Delta R.T. -0.003 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

Tgt Ion:130 Resp: 127016
Ion Ratio Lower Upper
130 100
95 115.8 86.4 129.6
132 101.8 75.7 113.5
97 69.9 56.9 85.3





#39

1,2-Dichloropropane

Concen: 7.320 ppbv

RT: 3.936 min Scan# 1189

Delta R.T. -0.356 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

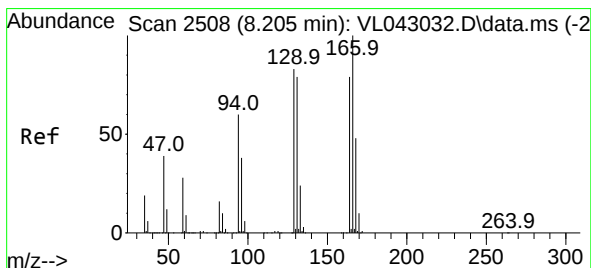
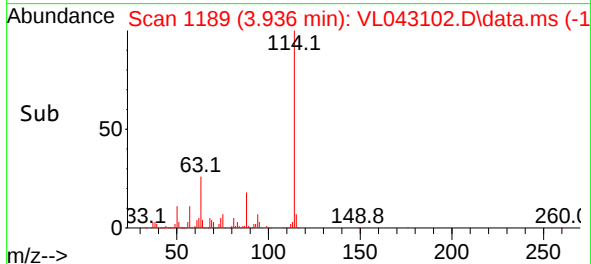
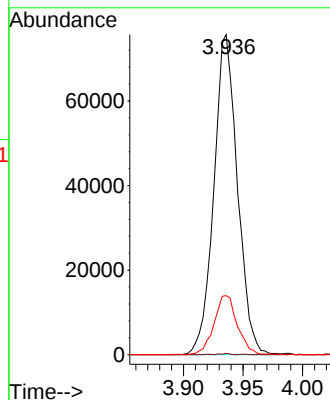
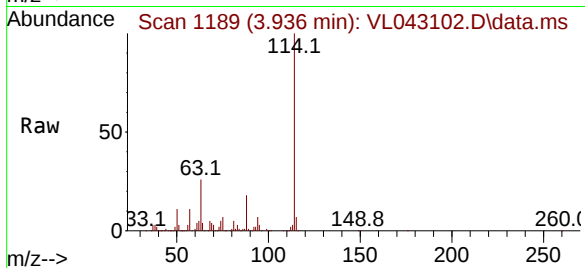
Tgt Ion: 63 Resp: 104217

Ion Ratio Lower Upper

63 100

41 0.4 61.6 92.4#

62 18.4 58.1 87.1#



#52

Tetrachloroethene

Concen: 3.826 ppbv

RT: 8.202 min Scan# 2507

Delta R.T. -0.003 min

Lab File: VL043102.D

Acq: 10 Oct 2025 07:46

Tgt Ion:164 Resp: 54422

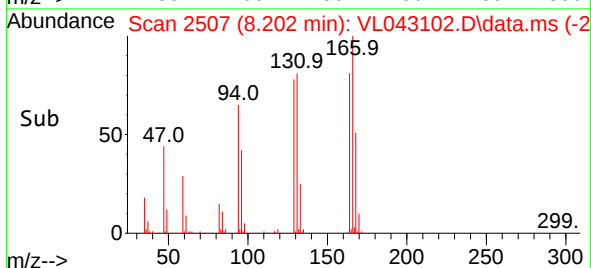
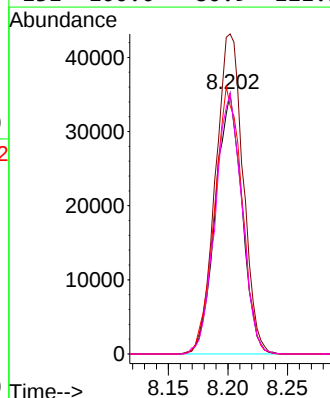
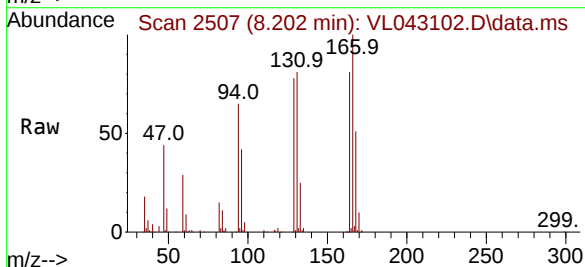
Ion Ratio Lower Upper

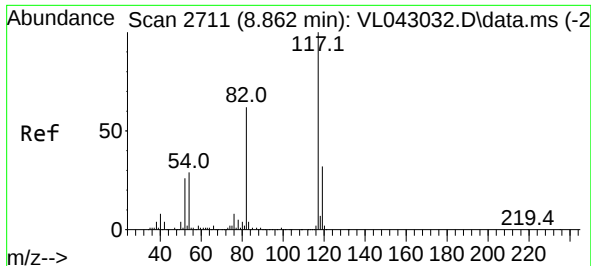
164 100

166 122.9 101.8 152.8

129 95.4 84.5 126.7

131 100.0 80.9 121.3

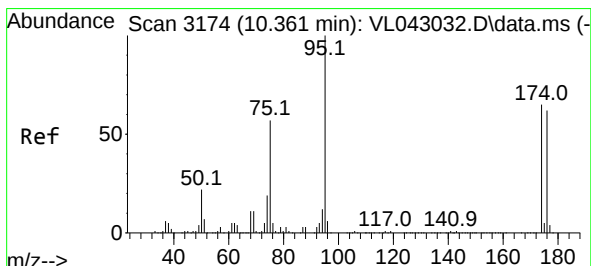
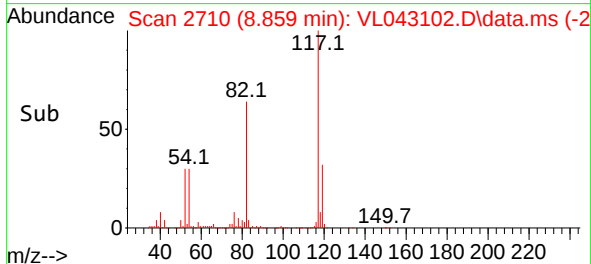
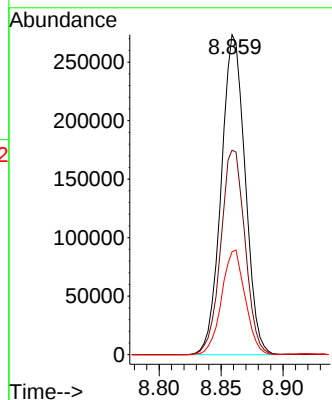
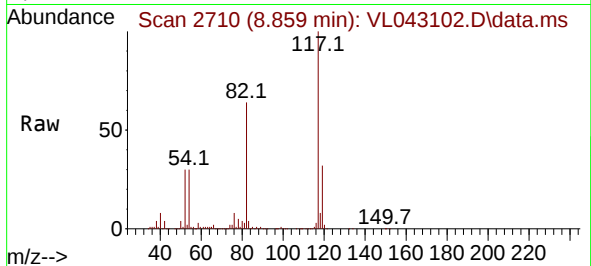




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.859 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

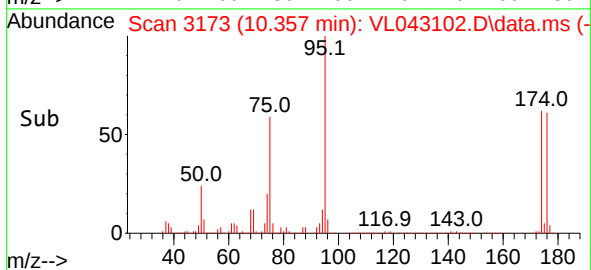
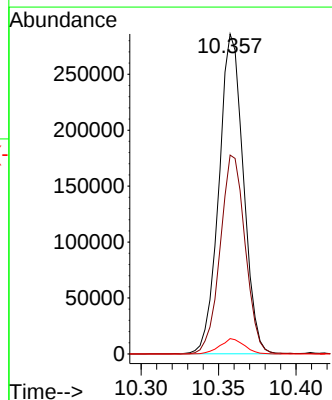
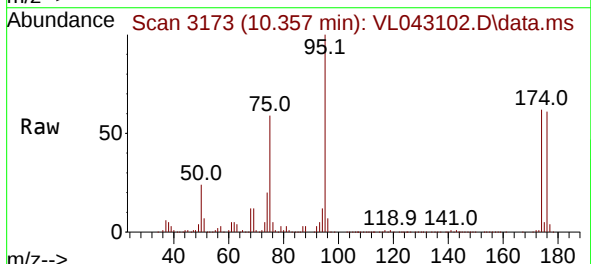
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

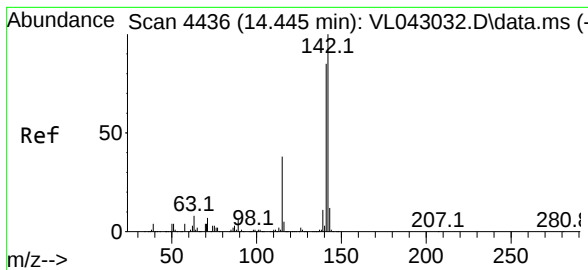
Tgt Ion:117 Resp: 367716
Ion Ratio Lower Upper
117 100
82 64.8 53.0 79.6
119 32.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 11.831 ppbv
RT: 10.357 min Scan# 3173
Delta R.T. -0.003 min
Lab File: VL043102.D
Acq: 10 Oct 2025 07:46

Tgt Ion: 95 Resp: 313406
Ion Ratio Lower Upper
95 100
174 63.7 52.3 78.5
175 4.8 3.8 5.8





#80
 Naphthalene, 2-methyl-
 Concen: 0.666 ppbv
 RT: 14.468 min Scan# 44
 Delta R.T. 0.023 min
 Lab File: VL043102.D
 Acq: 10 Oct 2025 07:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion:	142	Resp:	83
Ion	Ratio	Lower	Upper
142	100		
141	59.0	66.6	100.0#
115	45.8	30.1	45.1#

