

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042272.D
 Acq On : 08 Apr 2025 20:30
 Operator : SY/MD
 Sample : Q1728-07 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025

Quant Time: Apr 09 02:00:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

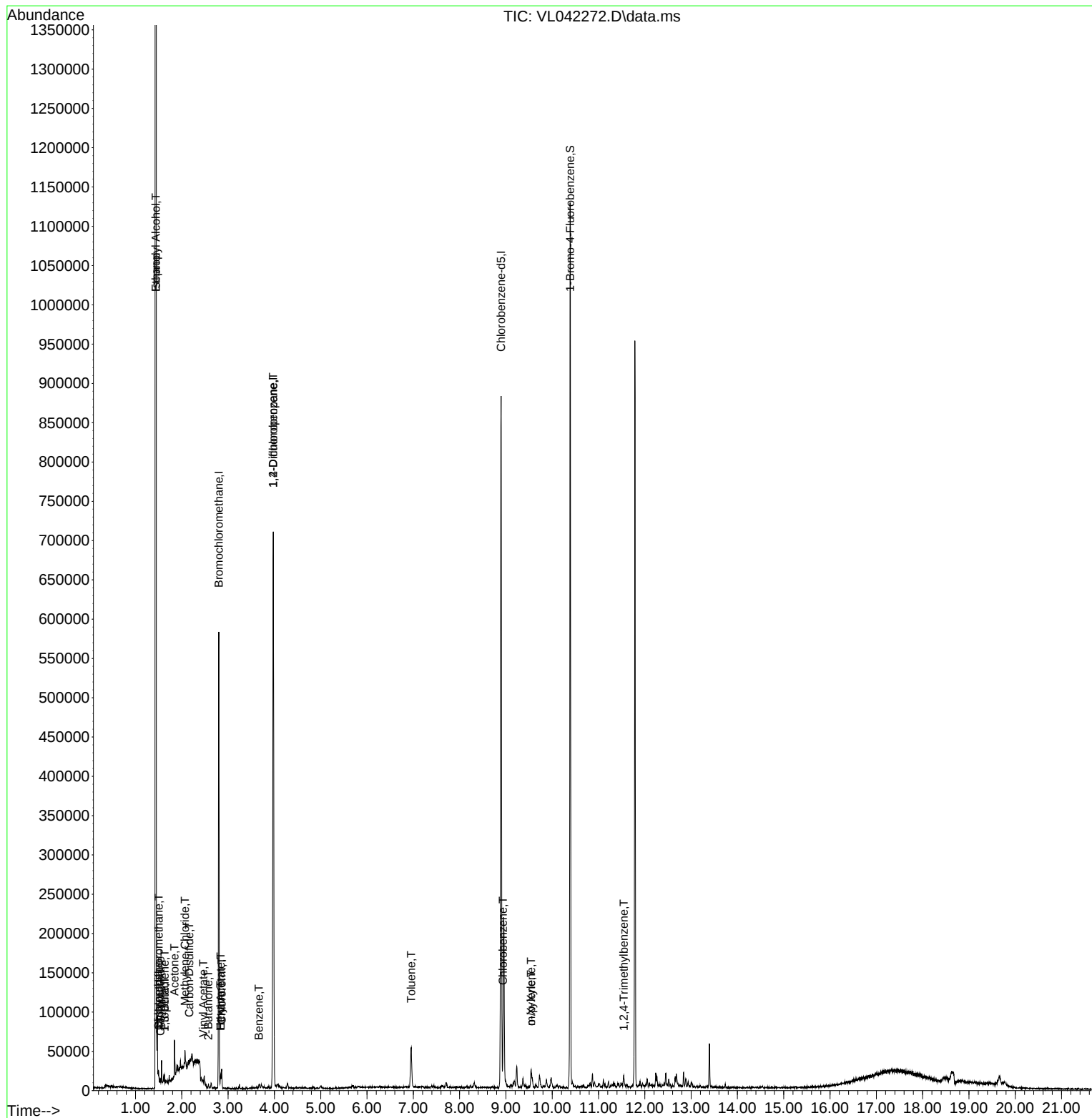
Internal Standards						
1) Bromochloromethane	2.800	49	160928	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.975	114	398547	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	347731	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	274979	9.629	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2800	0.118	ppbv	89
4) Chloromethane	1.538	50	461	0.047	ppbv #	57
7) Chloroethane	1.496	64	438	0.112	ppbv #	56
9) Propene	1.625	41	1272	0.114	ppbv	91
13) Ethanol	1.440	45	174932	166.324	ppbv #	1
15) Acetone	1.842	43	20683	0.919	ppbv	94
16) 1,3-Butadiene	1.628	39	955	0.087	ppbv #	53
19) Isopropyl Alcohol	1.440	45	174932	13.776	ppbv #	31
20) Methylene Chloride	2.068	84	3032	0.362	ppbv #	87
23) Vinyl Acetate	2.463	43	616	0.063	ppbv #	83
25) Ethyl Acetate	2.839	43	2710	0.046	ppbv #	85
26) Hexane	2.835	57	3283	0.146	ppbv #	41
27) Carbon Disulfide	2.159	76	891	0.037	ppbv #	54
29) Chloroform	2.861	83	9086	0.275	ppbv #	84
34) 2-Butanone	2.573	43	2533	0.088	ppbv	95
36) Benzene	3.667	78	1450	0.037	ppbv #	90
39) 1,2-Dichloropropane	3.975	63	103344	7.182	ppbv #	23
53) Toluene	6.956	91	36094	0.771	ppbv	100
57) Chlorobenzene	8.937	112	1425	0.043	ppbv #	57
59) m/p-Xylene	9.542	91	13334	0.270	ppbv	96
60) o-Xylene	9.542	91	13334	0.270	ppbv	90
74) 1,2,4-Trimethylbenzene	11.545	105	4136	0.067	ppbv #	69

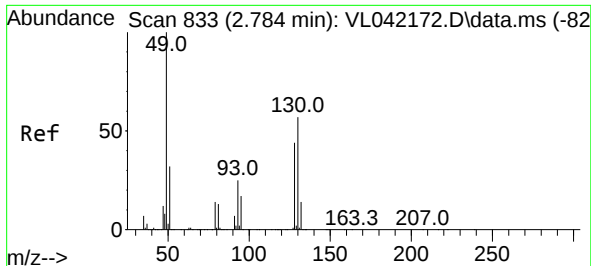
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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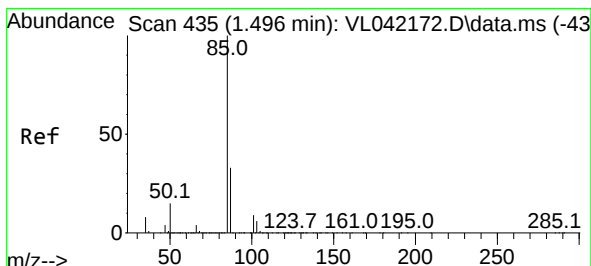
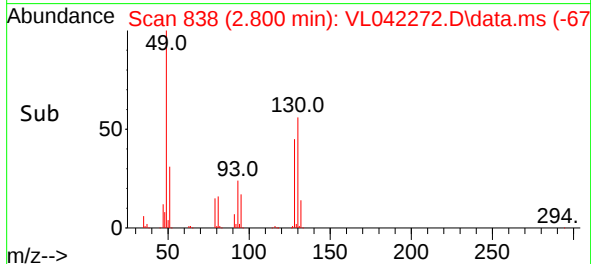
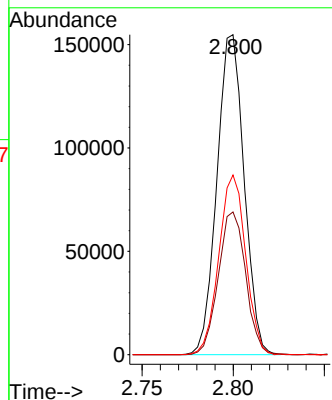
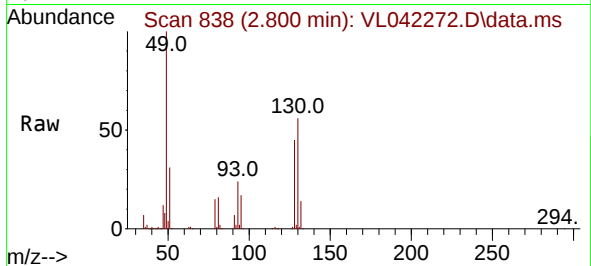




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

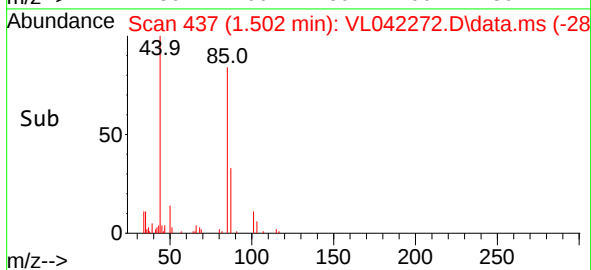
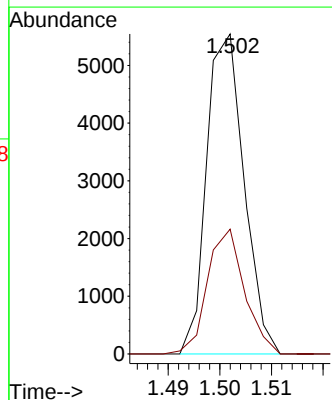
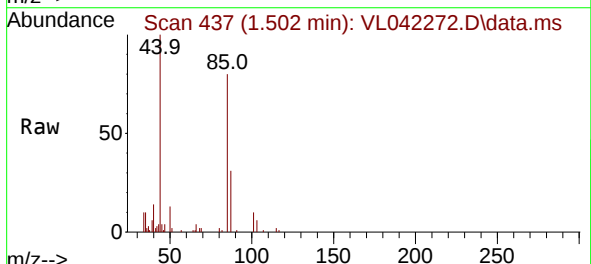
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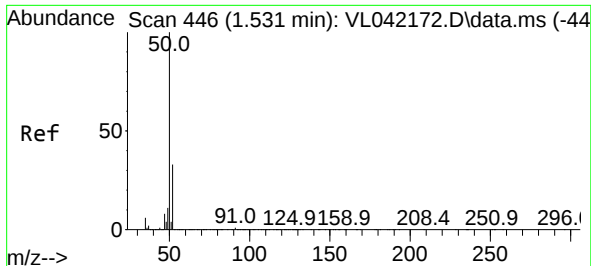
Tgt Ion: 49 Resp: 160928
Ion Ratio Lower Upper
49 100
128 44.8 22.9 68.5
130 55.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 85 Resp: 2800
Ion Ratio Lower Upper
85 100
87 39.0 26.1 39.1

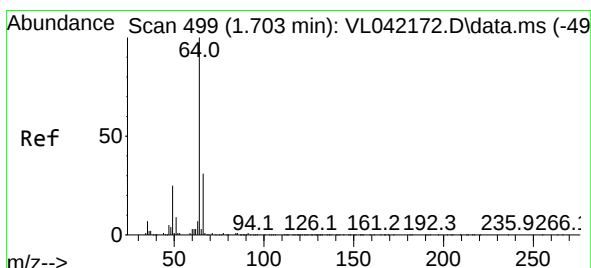
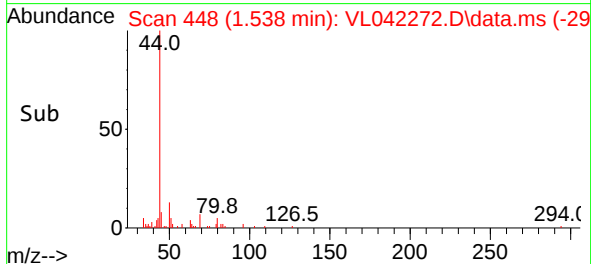
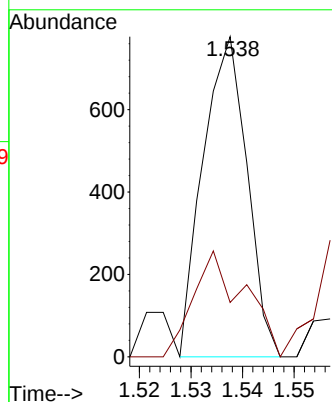
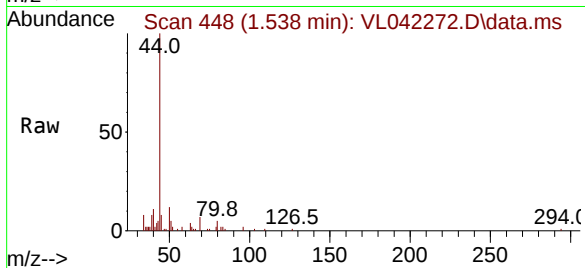




#4
Chloromethane
Concen: 0.047 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

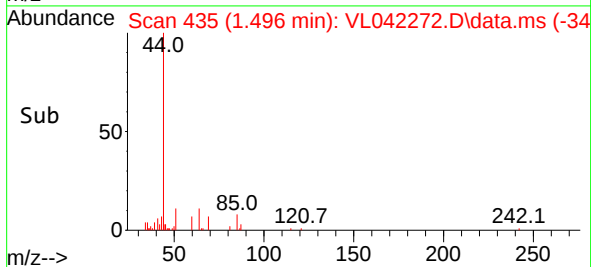
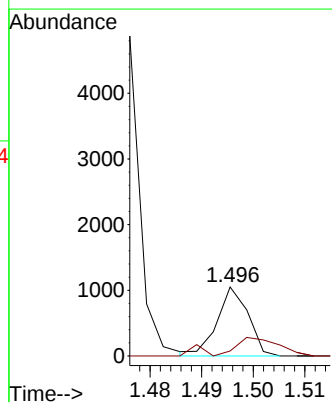
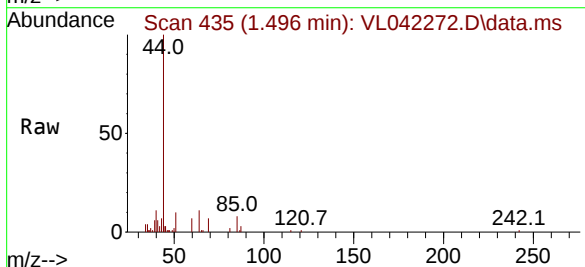
Instrument :
MSVOA_L
ClientSampleId :
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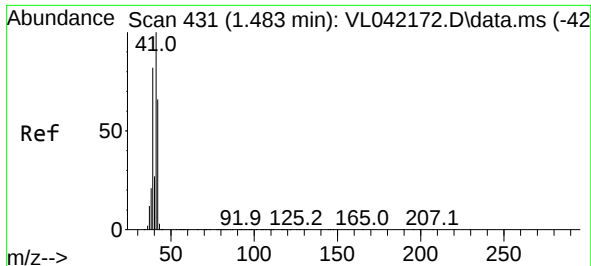
Tgt Ion: 50 Resp: 461
Ion Ratio Lower Upper
50 100
52 8.6 26.1 39.1#



#7
Chloroethane
Concen: 0.112 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.207 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 64 Resp: 438
Ion Ratio Lower Upper
64 100
66 7.1 25.2 37.8#





#9

Propene

Concen: 0.114 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.142 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

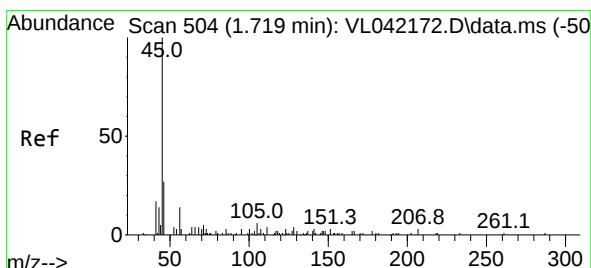
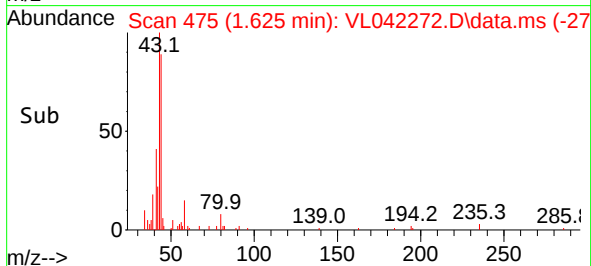
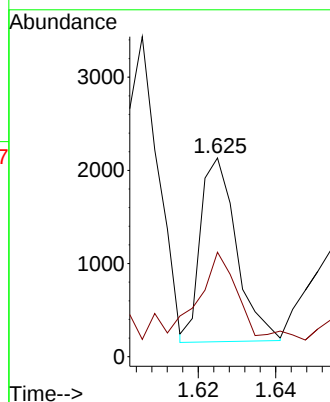
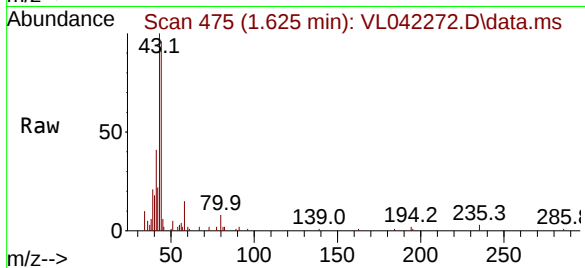
SSSG-B1-1-04012025

Tgt Ion: 41 Resp: 1272

Ion Ratio Lower Upper

41 100

42 62.3 55.4 83.2



#13

Ethanol

Concen: 166.324 ppbv

RT: 1.440 min Scan# 418

Delta R.T. -0.279 min

Lab File: VL042272.D

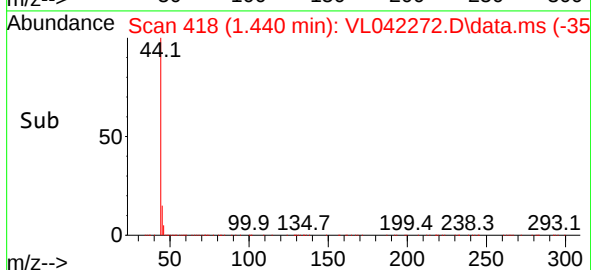
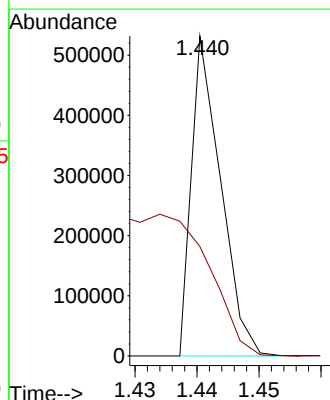
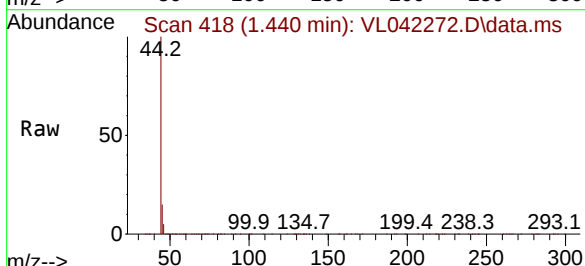
Acq: 08 Apr 2025 20:30

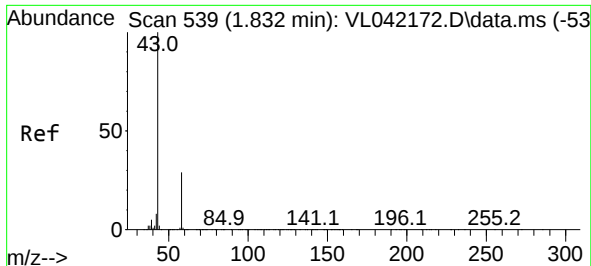
Tgt Ion: 45 Resp: 174932

Ion Ratio Lower Upper

45 100

46 142.9 20.2 80.8#

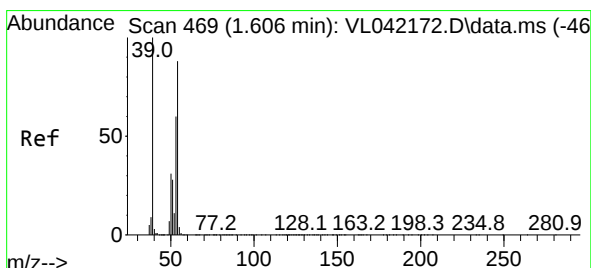
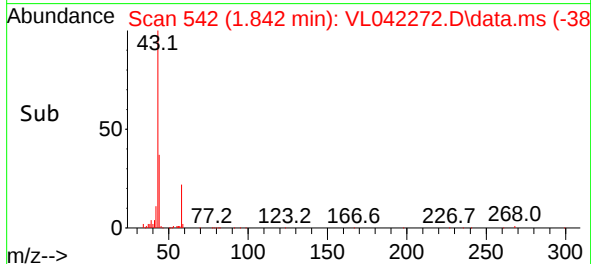
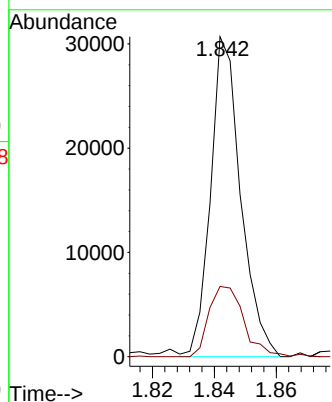
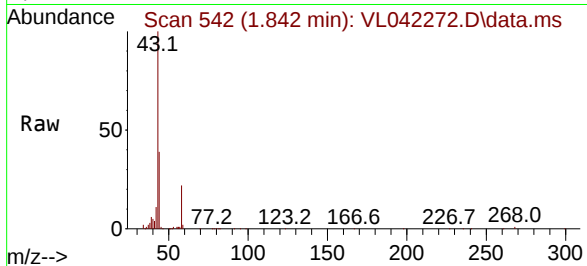




#15
Acetone
Concen: 0.919 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

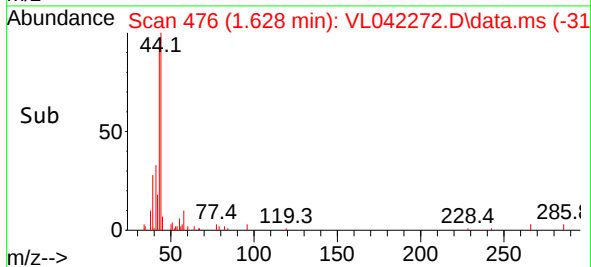
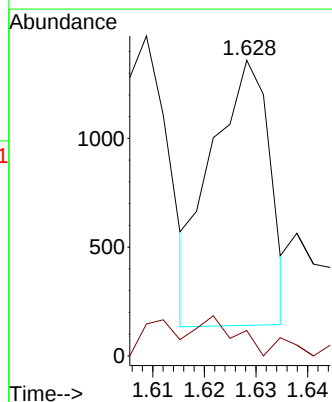
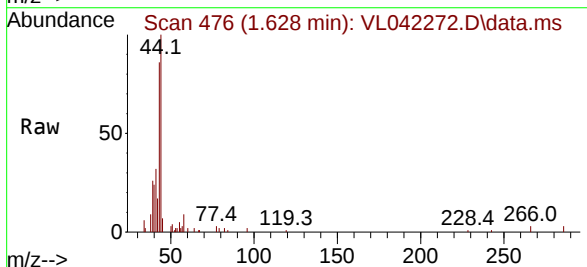
Instrument :
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ClientSampleId :
SSSG-B1-1-04012025

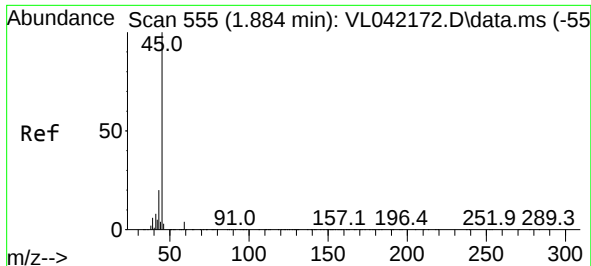
Tgt Ion: 43 Resp: 20683
Ion Ratio Lower Upper
43 100
58 25.8 23.2 34.8



#16
1,3-Butadiene
Concen: 0.087 ppbv
RT: 1.628 min Scan# 476
Delta R.T. 0.022 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 39 Resp: 955
Ion Ratio Lower Upper
39 100
54 35.9 60.7 91.1#





#19

Isopropyl Alcohol

Concen: 13.776 ppbv

RT: 1.440 min Scan# 41

Delta R.T. -0.444 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

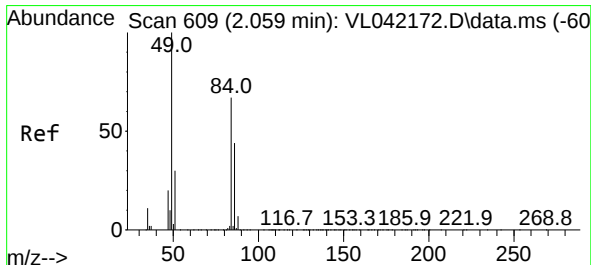
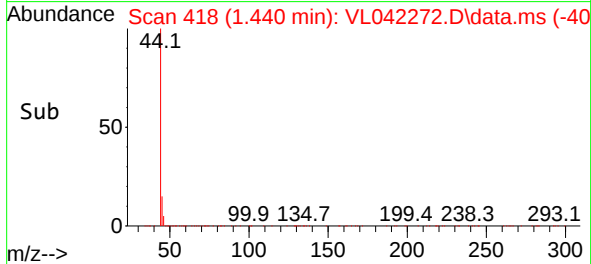
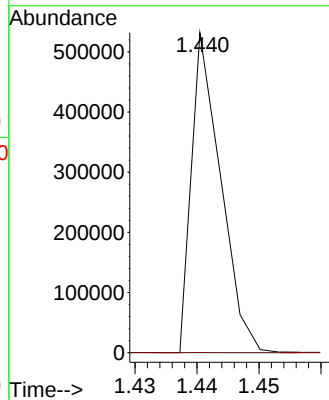
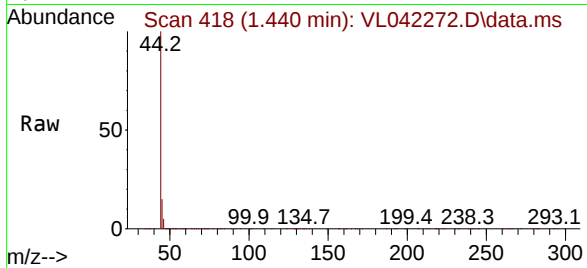
SSSG-B1-1-04012025

Tgt Ion: 45 Resp: 174932

Ion Ratio Lower Upper

45 100

58 0.1 36.9 55.3#



#20

Methylene Chloride

Concen: 0.362 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Tgt Ion: 84 Resp: 3032

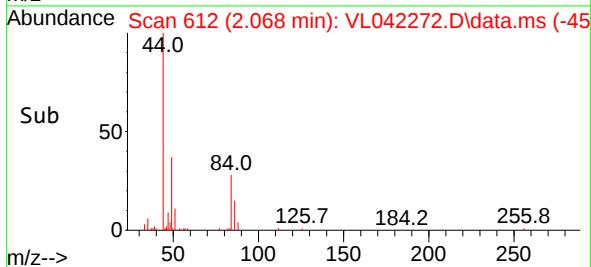
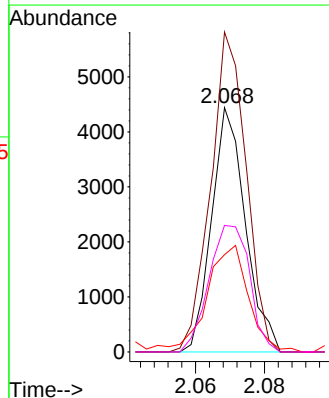
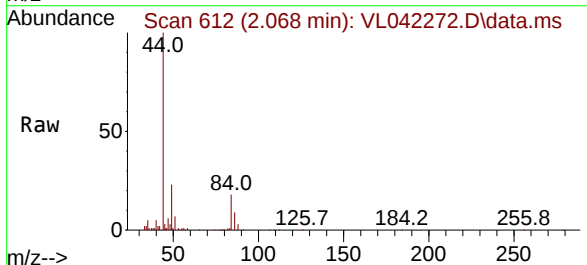
Ion Ratio Lower Upper

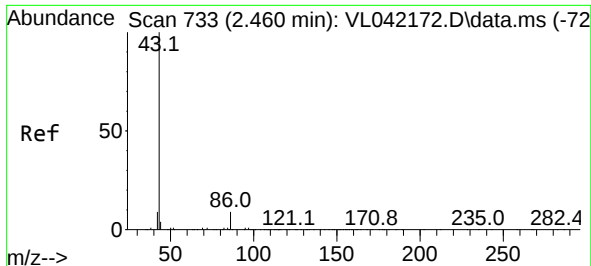
84 100

49 135.2 120.2 180.4

51 38.6 37.4 56.0

86 51.8 52.4 78.6#

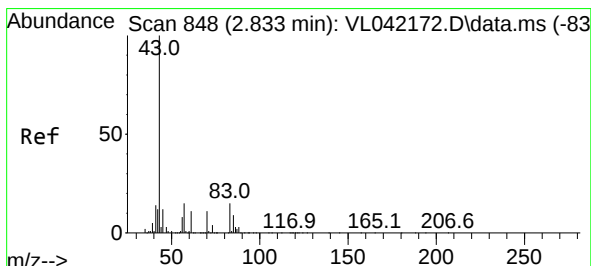
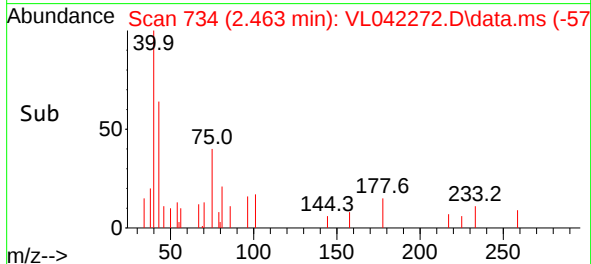
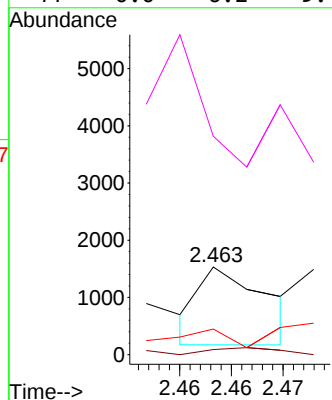
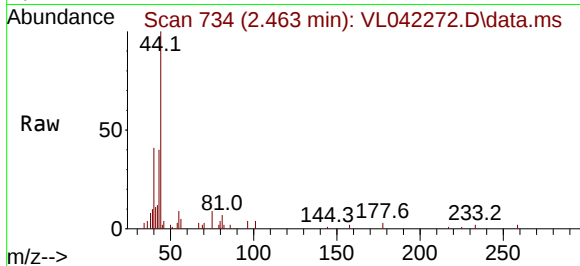




#23
 Vinyl Acetate
 Concen: 0.063 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042272.D
 Acq: 08 Apr 2025 20:30

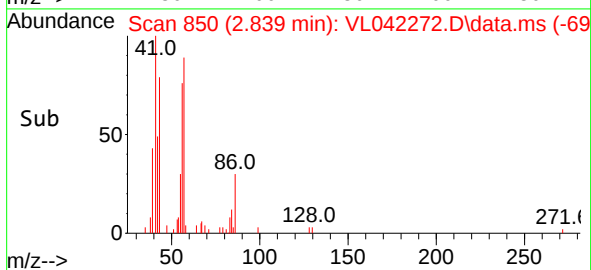
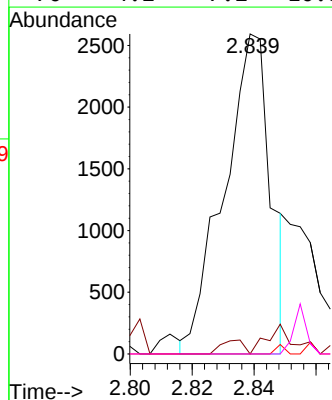
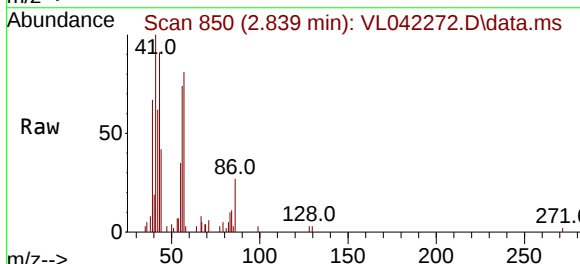
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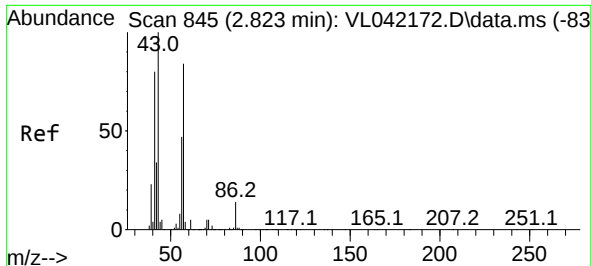
Tgt Ion: 43	Resp: 616
Ion Ratio	Lower Upper
43 100	
86 10.8	5.5 8.3#
42 16.8	8.6 13.0#
44 0.0	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.046 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.006 min
 Lab File: VL042272.D
 Acq: 08 Apr 2025 20:30

Tgt	Ion: 43	Resp:	2710
Ion	Ratio	Lower	Upper
43	100		
45	7.3	8.2	12.2#
61	0.0	7.3	10.9#
70	4.2	7.2	10.8#

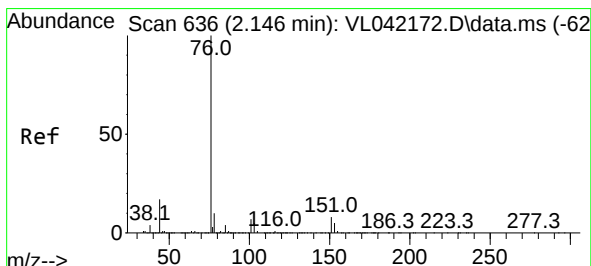
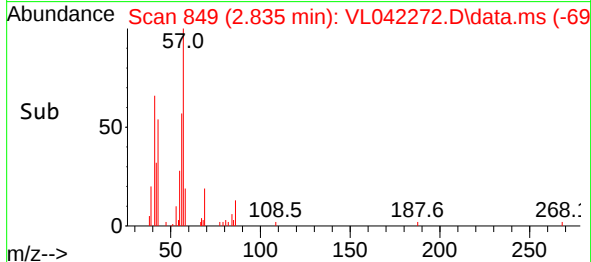
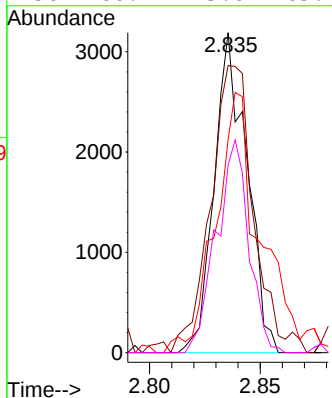
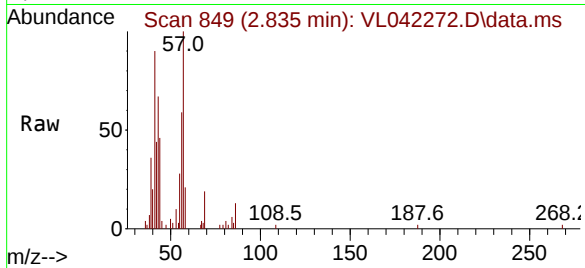




#26
Hexane
Concen: 0.146 ppbv
RT: 2.835 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

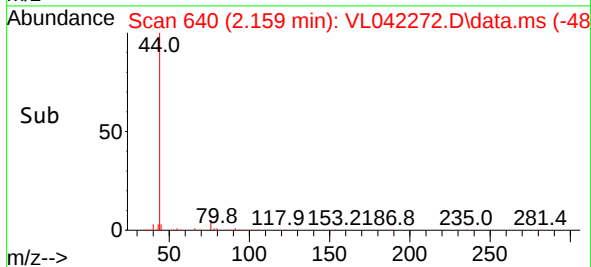
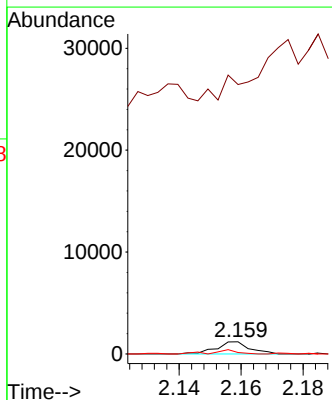
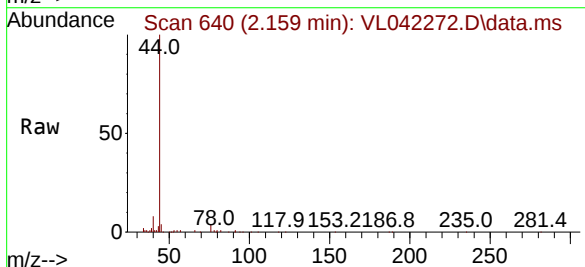
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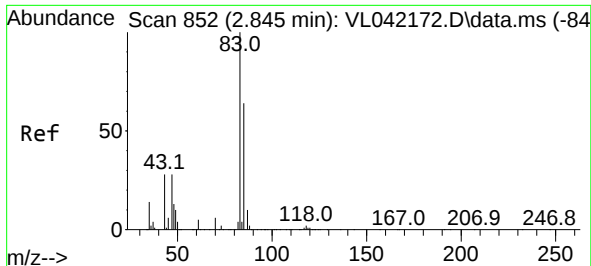
Tgt Ion: 57 Resp: 3283
Ion Ratio Lower Upper
57 100
41 120.7 76.6 114.8#
43 115.5 207.8 311.8#
56 66.2 43.6 65.4#



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 76 Resp: 891
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 31.9 9.3 13.9#





#29

Chloroform

Concen: 0.275 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

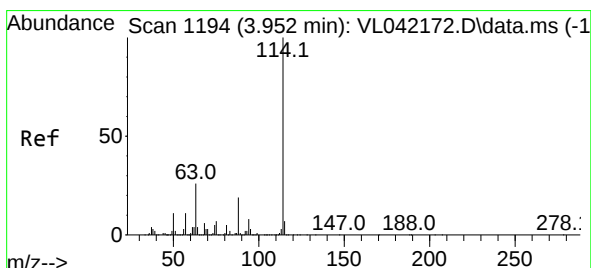
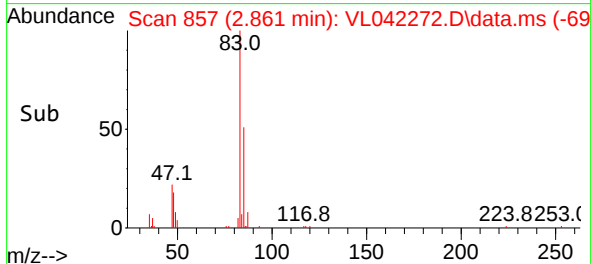
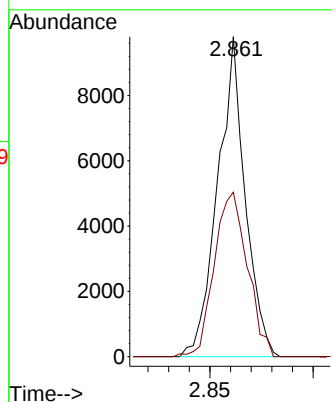
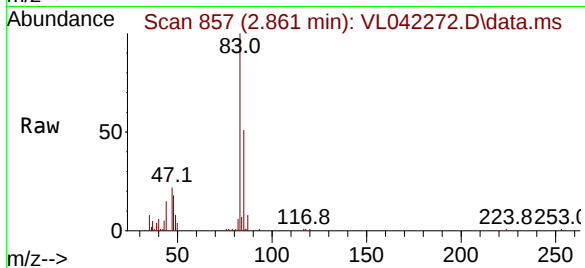
SSSG-B1-1-04012025

Tgt Ion: 83 Resp: 9086

Ion Ratio Lower Upper

83 100

85 51.4 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.022 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

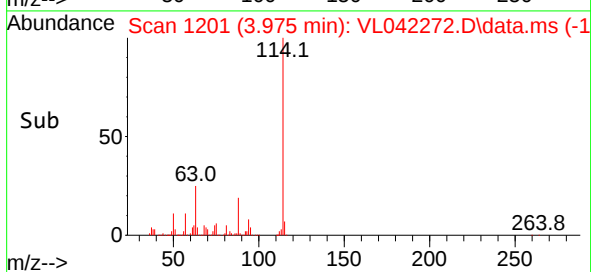
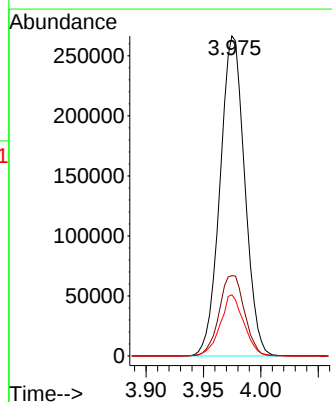
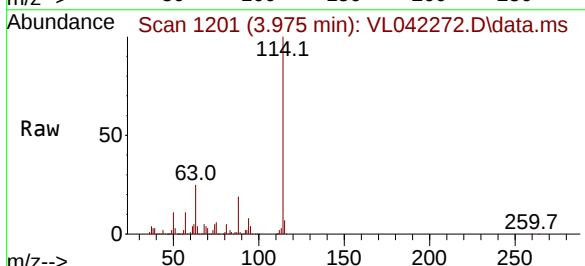
Tgt Ion: 114 Resp: 398547

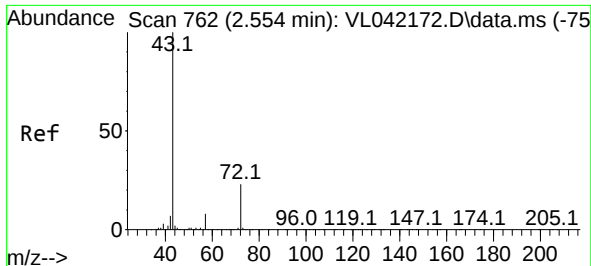
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 18.3 15.0 22.4

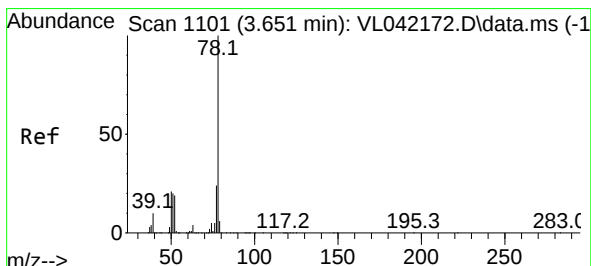
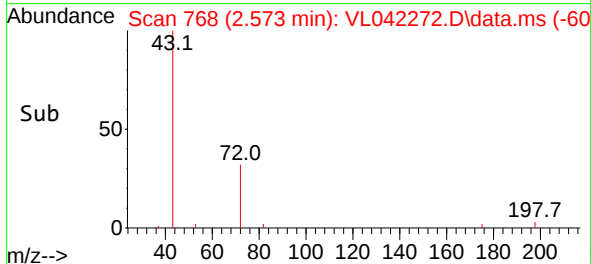
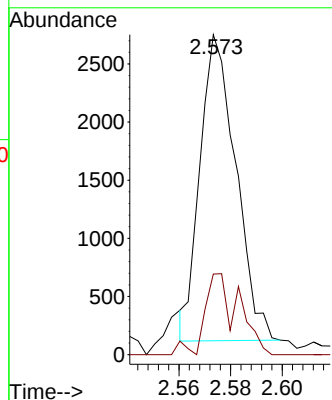
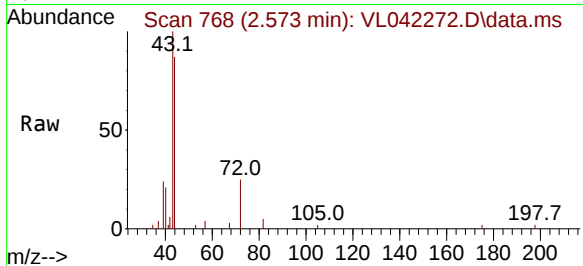




#34
2-Butanone
Concen: 0.088 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

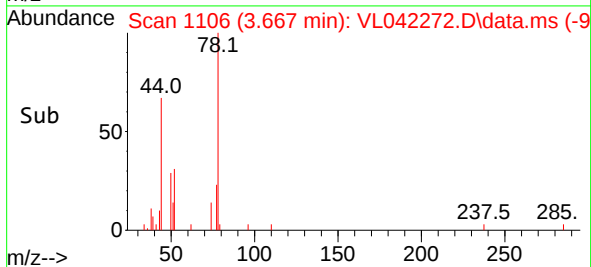
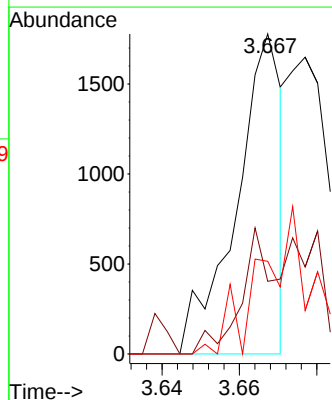
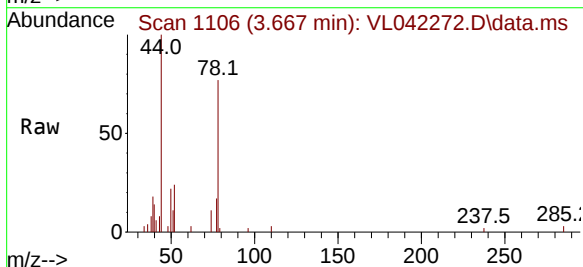
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

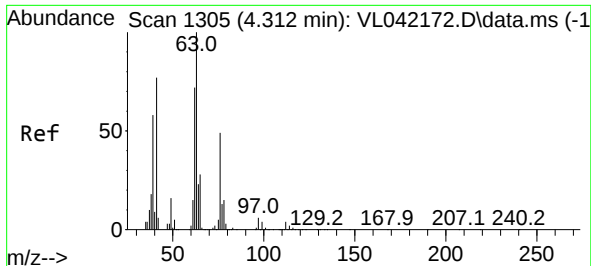
Tgt Ion: 43 Resp: 2533
Ion Ratio Lower Upper
43 100
72 25.1 18.2 27.2



#36
Benzene
Concen: 0.037 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 78 Resp: 1450
Ion Ratio Lower Upper
78 100
77 22.7 19.1 28.7
50 29.0 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.182 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.337 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

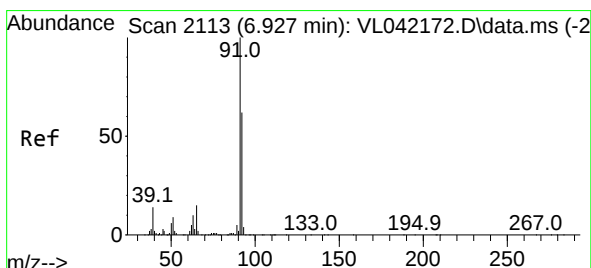
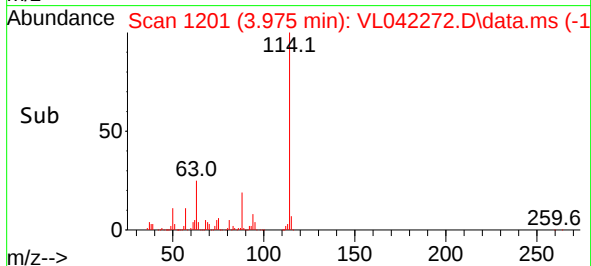
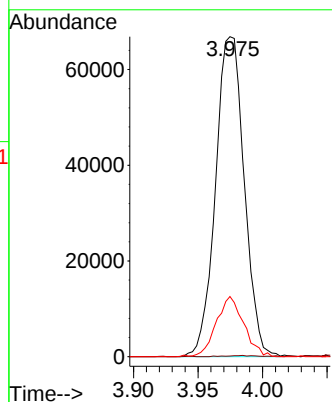
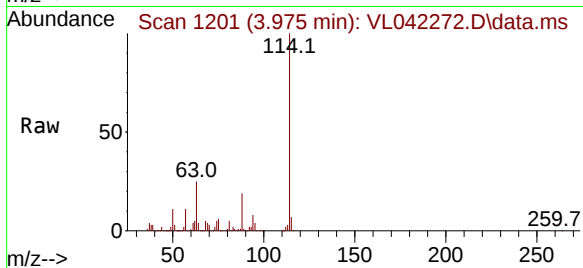
Tgt Ion: 63 Resp: 103344

Ion Ratio Lower Upper

63 100

41 0.6 61.7 92.5#

62 18.7 57.6 86.4#



#53

Toluene

Concen: 0.771 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.029 min

Lab File: VL042272.D

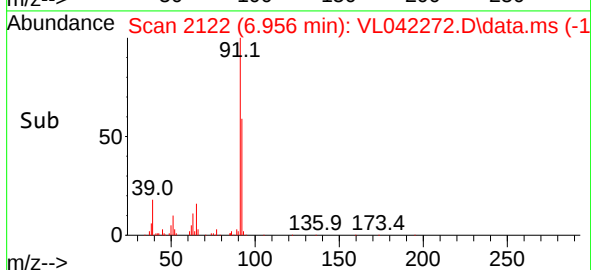
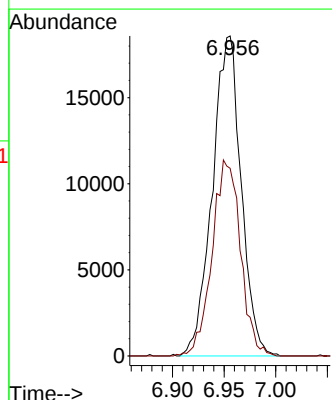
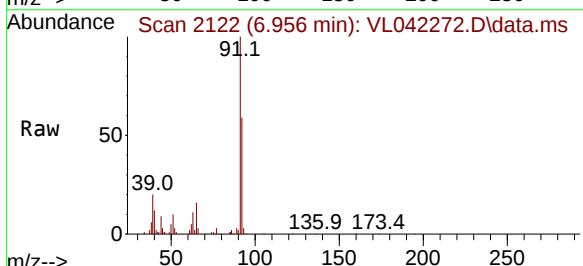
Acq: 08 Apr 2025 20:30

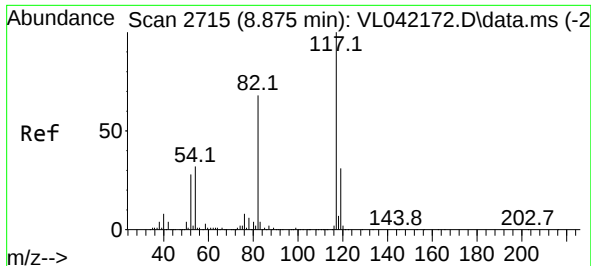
Tgt Ion: 91 Resp: 36094

Ion Ratio Lower Upper

91 100

92 60.2 48.4 72.6

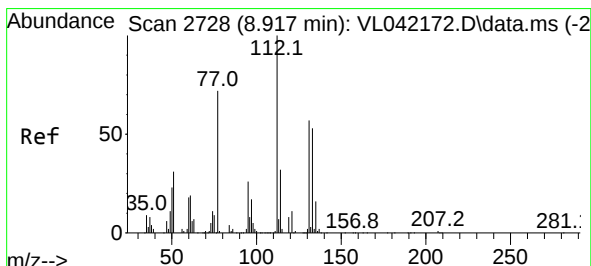
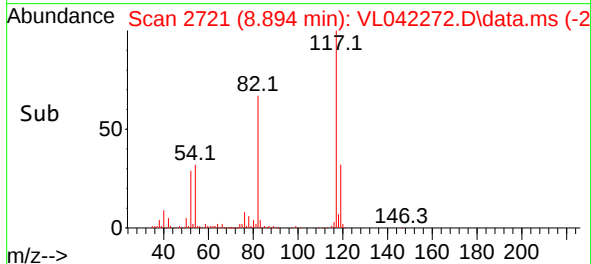
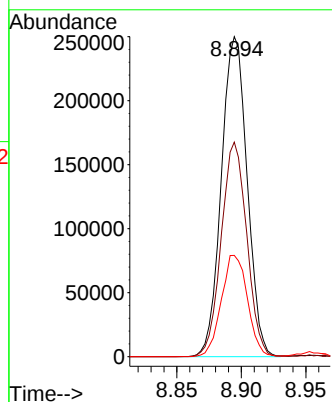
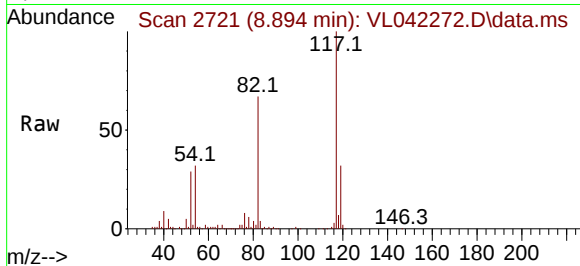




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

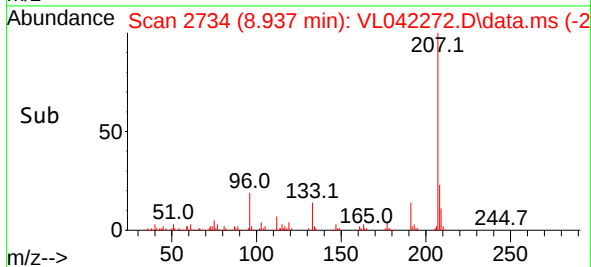
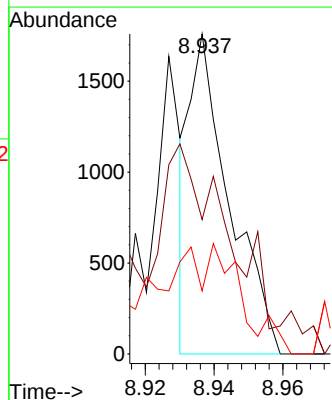
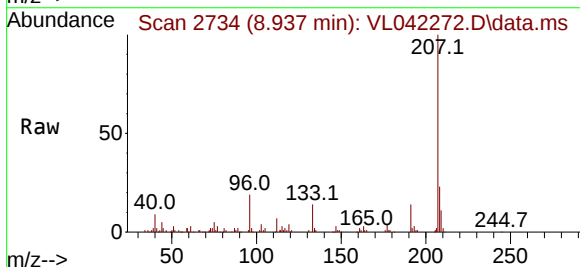
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

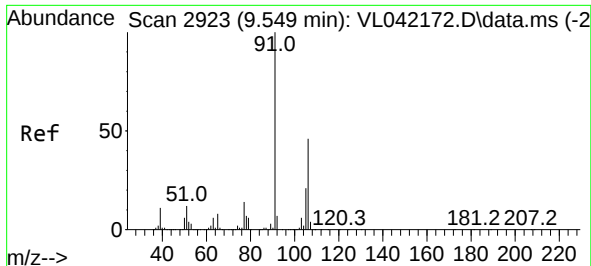
Tgt Ion:117 Resp: 347731
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.2 25.5 38.3



#57
Chlorobenzene
Concen: 0.043 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion:112 Resp: 1425
Ion Ratio Lower Upper
112 100
77 33.2 58.2 87.2#
114 13.6 29.1 35.5#





#59

m/p-Xylene

Concen: 0.270 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.007 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

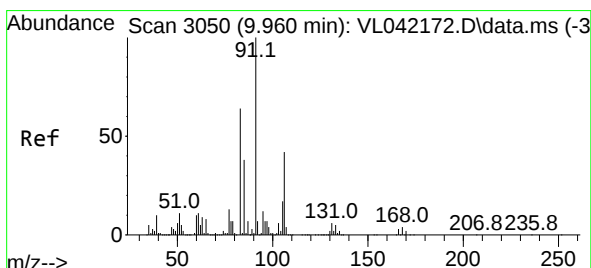
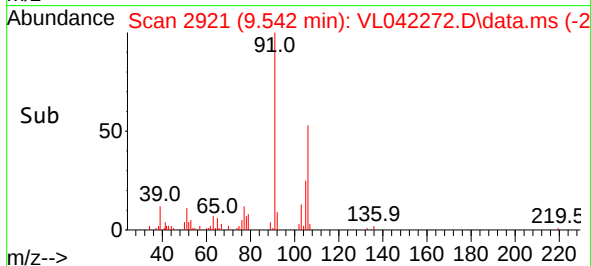
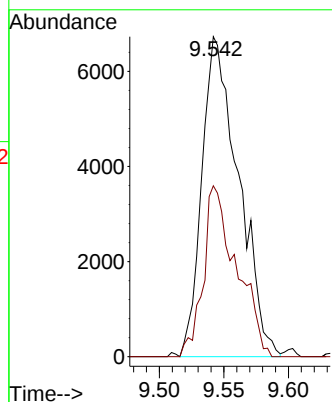
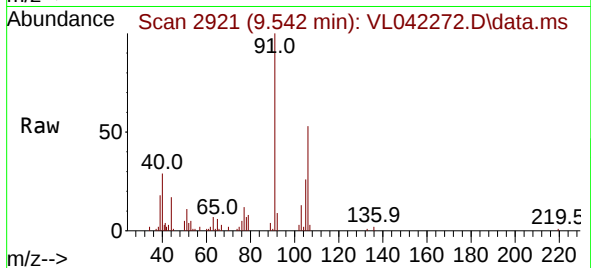
SSSG-B1-1-04012025

Tgt Ion: 91 Resp: 13334

Ion Ratio Lower Upper

91 100

106 48.2 36.4 54.6



#60

o-Xylene

Concen: 0.270 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.418 min

Lab File: VL042272.D

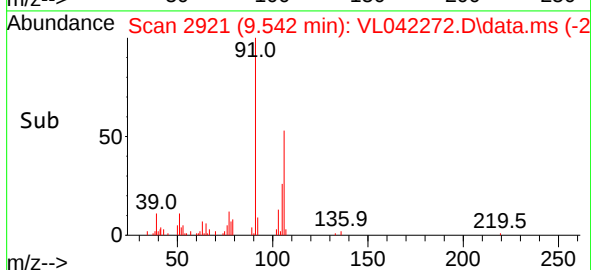
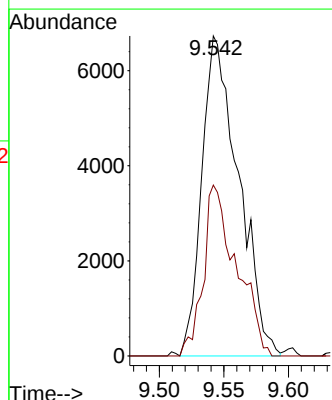
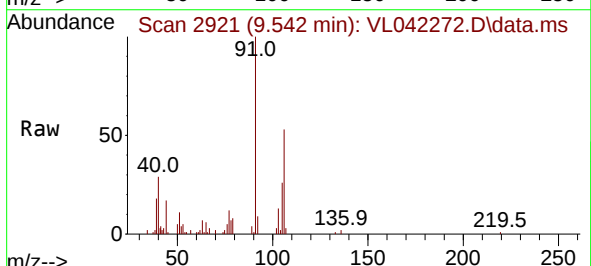
Acq: 08 Apr 2025 20:30

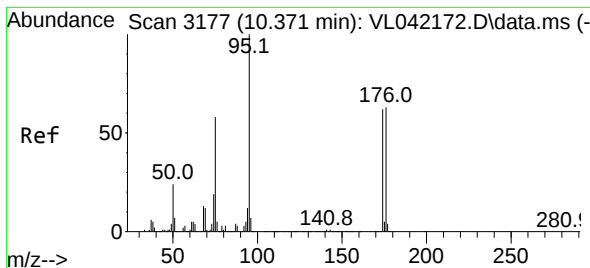
Tgt Ion: 91 Resp: 13334

Ion Ratio Lower Upper

91 100

106 48.2 20.8 62.5





#68

1-Bromo-4-Fluorobenzene

Concen: 9.629 ppbv

RT: 10.387 min Scan# 3177

Delta R.T. 0.016 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

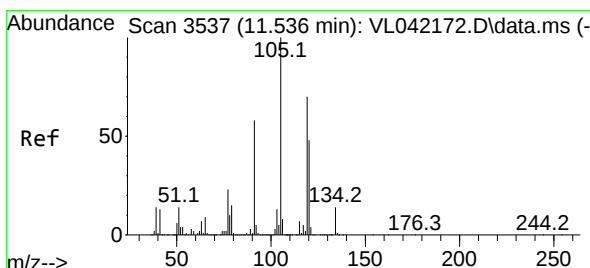
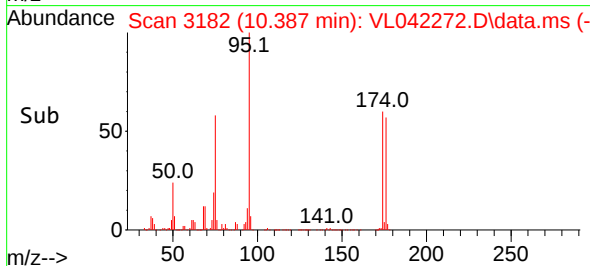
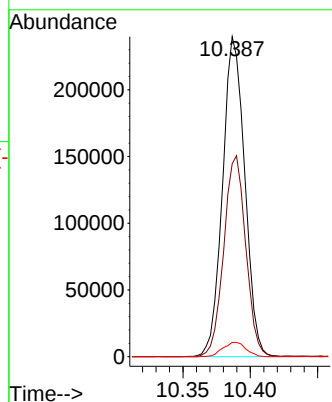
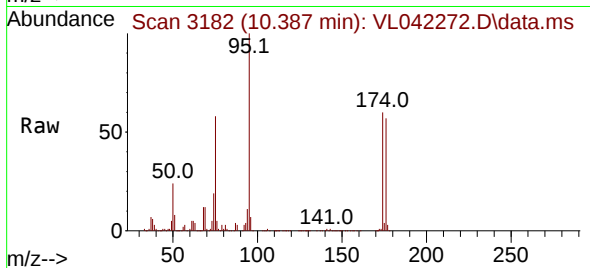
Tgt Ion: 95 Resp: 274979

Ion Ratio Lower Upper

95 100

174 62.4 50.6 76.0

175 4.7 3.8 5.6



#74

1,2,4-Trimethylbenzene

Concen: 0.067 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Tgt Ion: 105 Resp: 4136

Ion Ratio Lower Upper

105 100

120 40.4 38.6 58.0

91 17.7 46.2 69.2#

77 30.8 18.6 27.8#

