

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
 Data File : VL040202.D
 Acq On : 21 Feb 2023 19:49
 Operator : SY/MD
 Sample : 01626-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-12DL

Quant Time: Feb 22 03:26:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 22 03:17:31 2023
 Response via : Initial Calibration

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

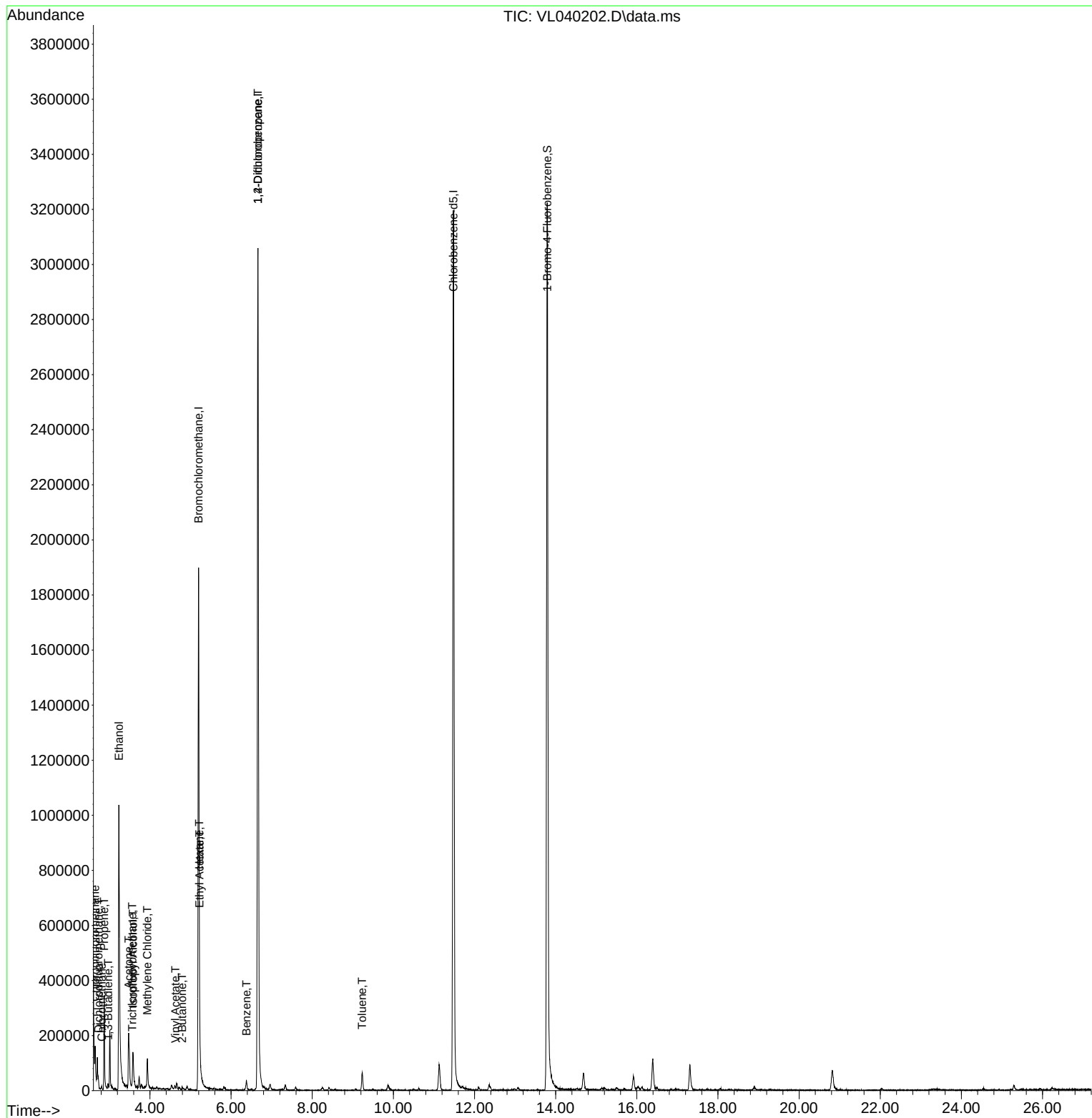
Internal Standards						
1) Bromochloromethane	5.198	49	894632	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2329695	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.478	117	2068544	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1676596	9.857	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	19618	0.118	ppbv	99
3) Chlorodifluoromethane	2.649	51	93851	0.878	ppbv #	67
4) Chloromethane	2.813	50	7715	0.115	ppbv #	77
9) Propene	2.874	41	87700	2.013	ppbv	94
11) Trichlorofluoromethane	3.565	101	7325	0.049	ppbv	86
13) Ethanol	3.234	45	1128449	281.376	ppbv	94
15) Acetone	3.475	43	209319	1.943	ppbv	97
16) 1,3-Butadiene	2.973	39	1625	0.033	ppbv #	47
19) Isopropyl Alcohol	3.581	45	141851	2.771	ppbv #	97
20) Methylene Chloride	3.935	84	35442	0.632	ppbv	99
23) Vinyl Acetate	4.629	43	2243	0.069	ppbv #	78
25) Ethyl Acetate	5.221	43	18973	0.095	ppbv #	89
26) Hexane	5.218	57	19624	0.228	ppbv #	45
34) 2-Butanone	4.793	43	4109	0.036	ppbv #	53
36) Benzene	6.378	78	21166	0.117	ppbv #	89
39) 1,2-Dichloropropane	6.661	63	582936	8.265	ppbv #	26
53) Toluene	9.227	91	20420	0.105	ppbv #	20

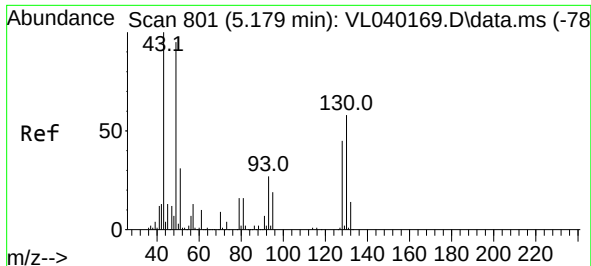
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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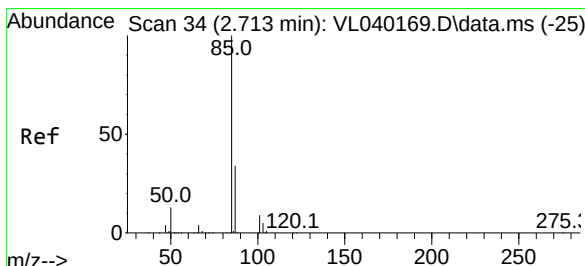
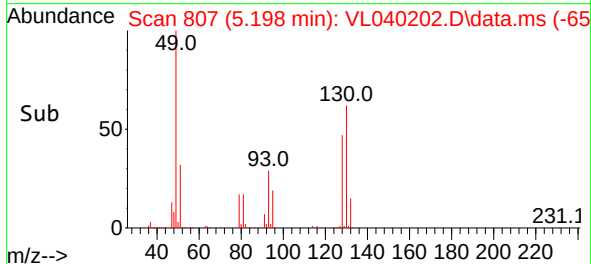
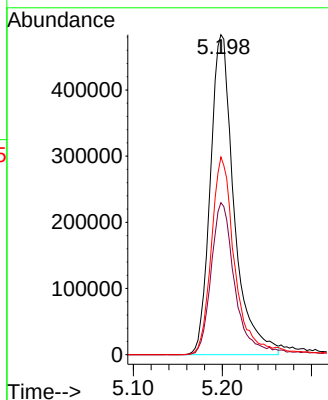
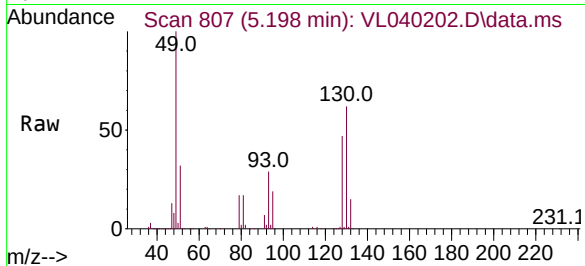




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL040202.D
 Acq: 21 Feb 2023 19:49

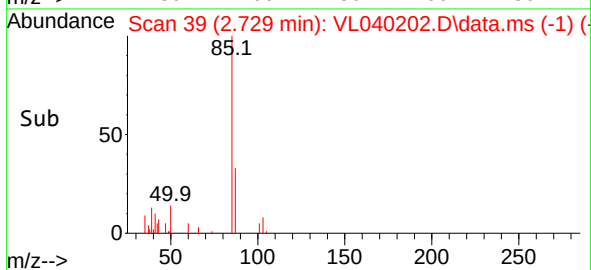
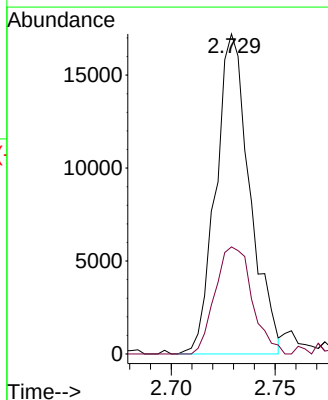
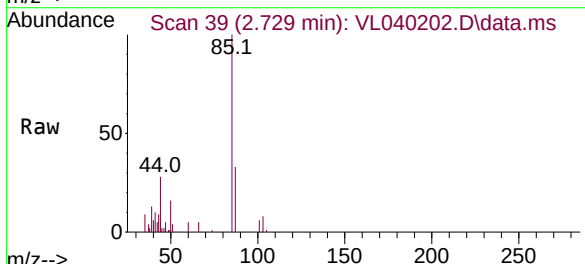
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-12DL

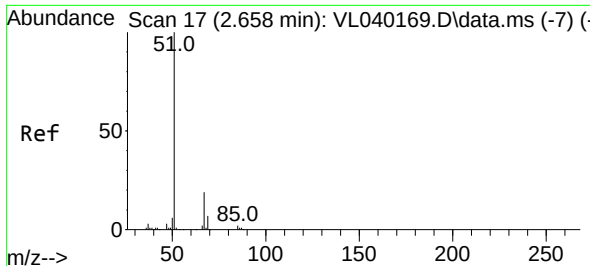
Tgt Ion: 49 Resp: 894632
 Ion Ratio Lower Upper
 49 100
 128 48.8 24.1 72.3
 130 63.2 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.118 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.000 min
 Lab File: VL040202.D
 Acq: 21 Feb 2023 19:49

Tgt Ion: 85 Resp: 19618
 Ion Ratio Lower Upper
 85 100
 87 33.4 27.0 40.6

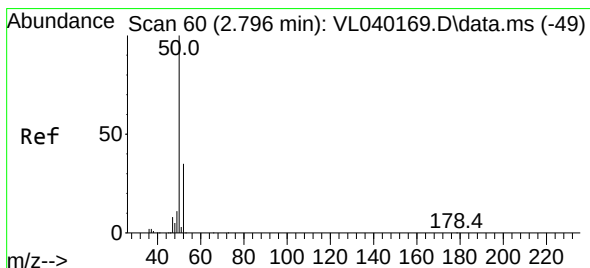
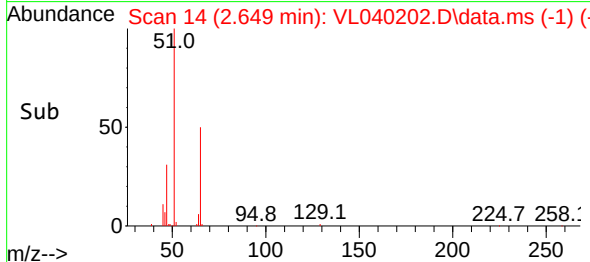
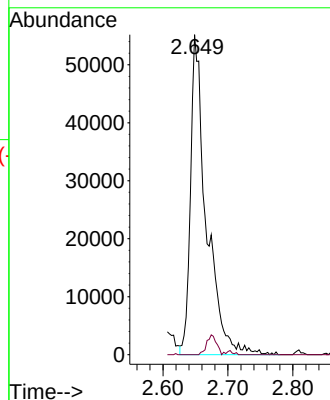
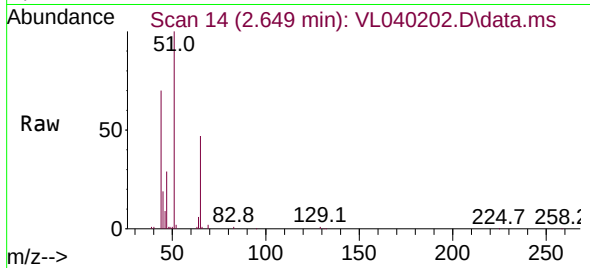




#3
Chlorodifluoromethane
Concen: 0.878 ppbv
RT: 2.649 min Scan# 14
Delta R.T. -0.026 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

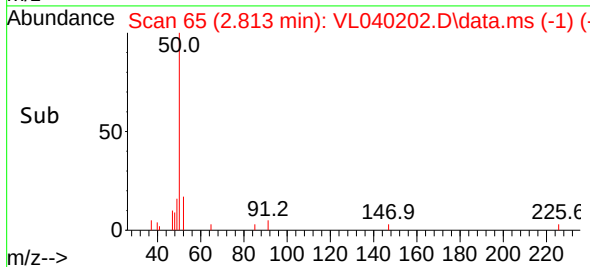
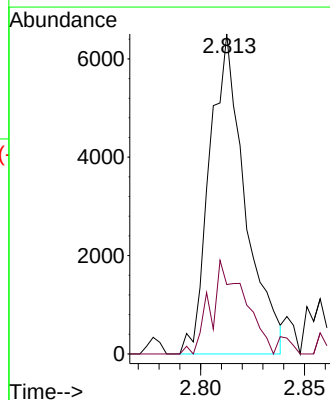
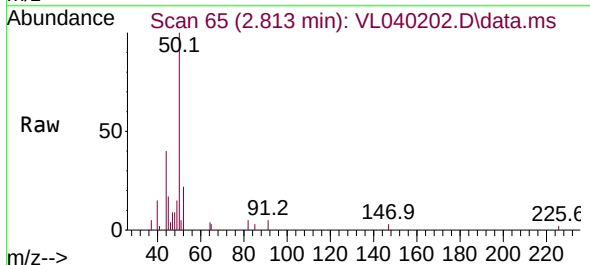
Instrument :
MSVOA_L
ClientSampleId :
IA-12DL

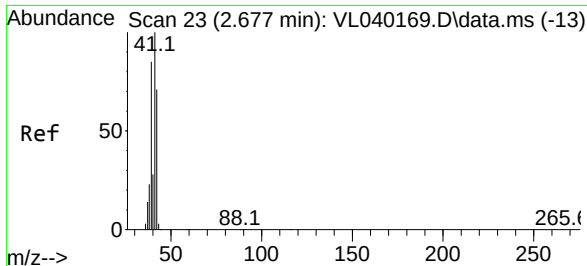
Tgt Ion: 51 Resp: 93851
Ion Ratio Lower Upper
51 100
67 4.3 15.4 23.2#



#4
Chloromethane
Concen: 0.115 ppbv
RT: 2.813 min Scan# 65
Delta R.T. 0.000 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

Tgt Ion: 50 Resp: 7715
Ion Ratio Lower Upper
50 100
52 21.7 28.3 42.5#





#9

Propene

Concen: 2.013 ppbv

RT: 2.874 min Scan# 84

Delta R.T. 0.180 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

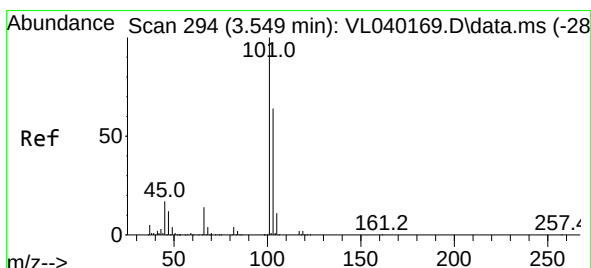
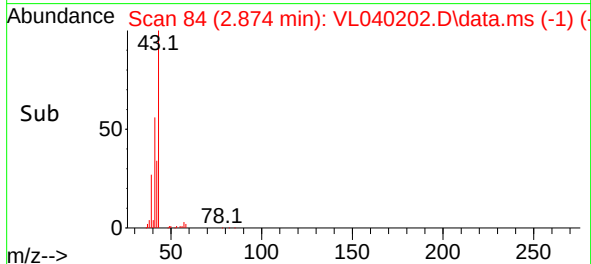
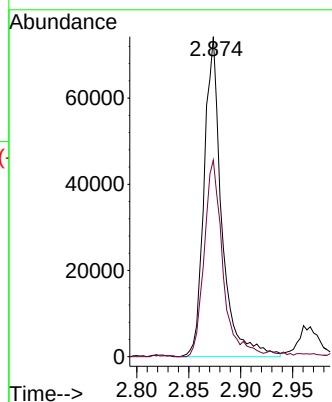
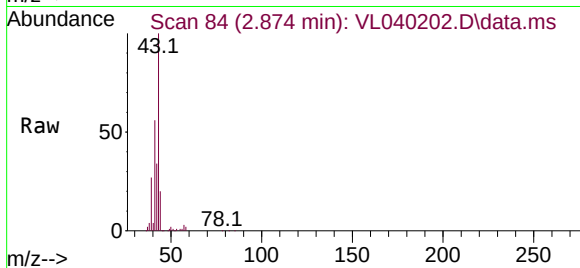
IA-12DL

Tgt Ion: 41 Resp: 87700

Ion Ratio Lower Upper

41 100

42 66.2 56.9 85.3



#11

Trichlorofluoromethane

Concen: 0.049 ppbv

RT: 3.565 min Scan# 299

Delta R.T. -0.003 min

Lab File: VL040202.D

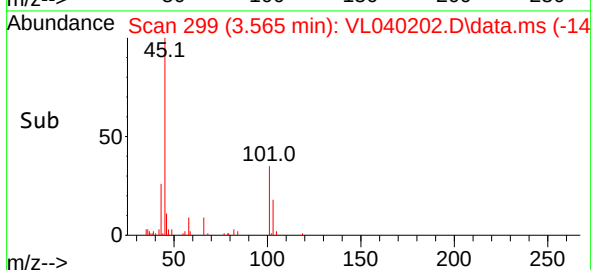
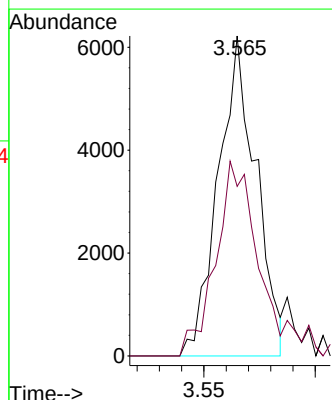
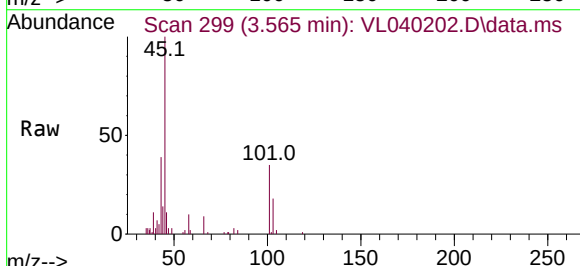
Acq: 21 Feb 2023 19:49

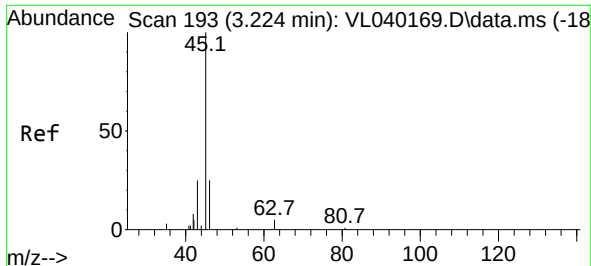
Tgt Ion:101 Resp: 7325

Ion Ratio Lower Upper

101 100

103 53.0 51.0 76.6

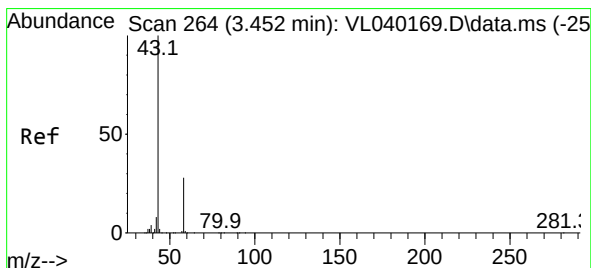
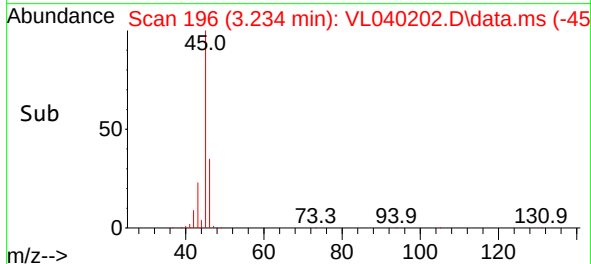
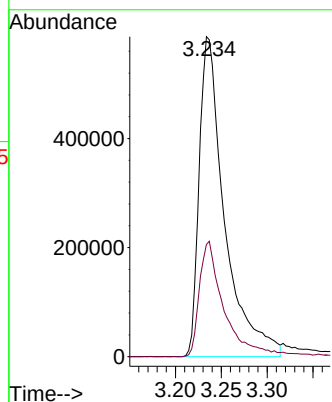
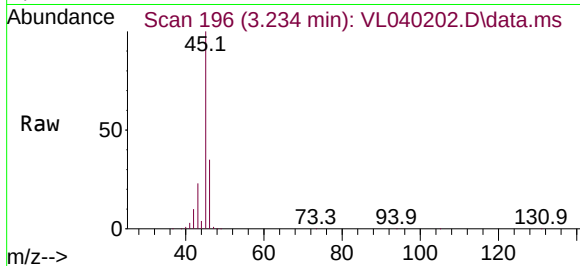




#13
Ethanol
Concen: 281.376 ppbv
RT: 3.234 min Scan# 193
Delta R.T. -0.016 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

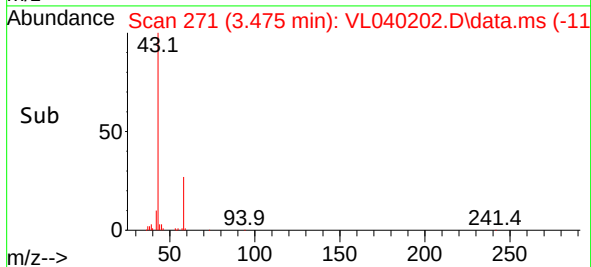
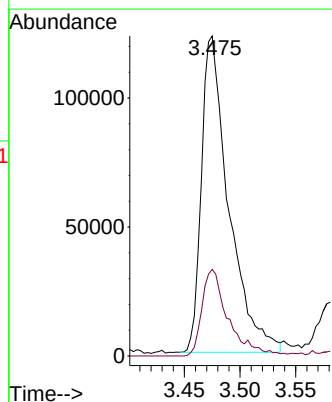
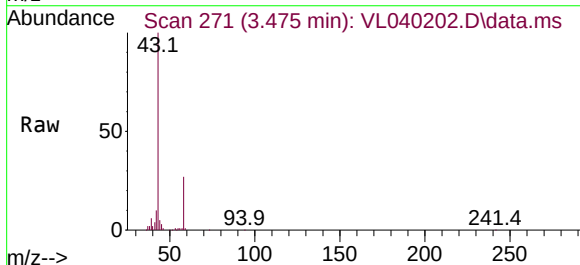
Instrument :
MSVOA_L
ClientSampleId :
IA-12DL

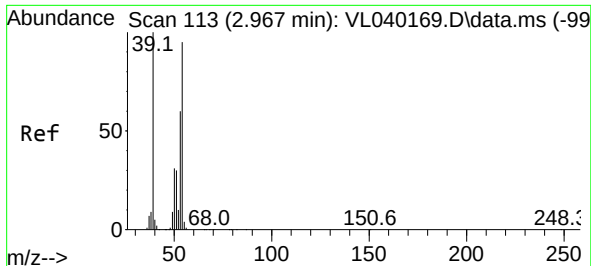
Tgt Ion: 45 Resp: 1128449
Ion Ratio Lower Upper
45 100
46 36.6 13.3 53.1



#15
Acetone
Concen: 1.943 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.003 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

Tgt Ion: 43 Resp: 209319
Ion Ratio Lower Upper
43 100
58 26.4 22.4 33.6





#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 2.973 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

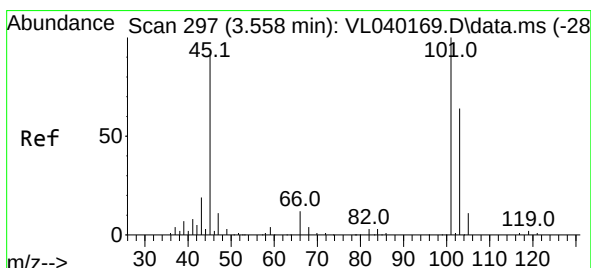
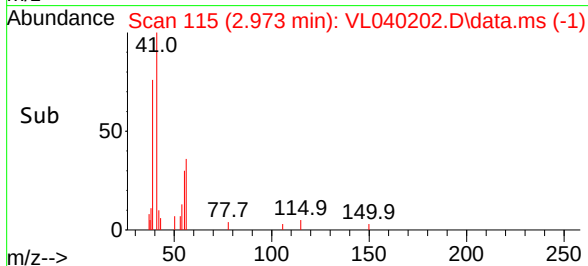
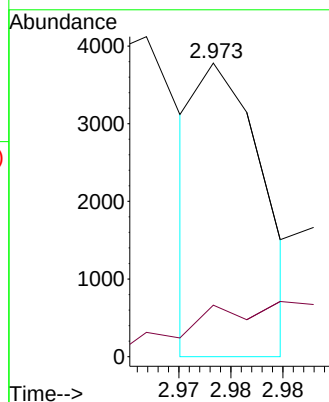
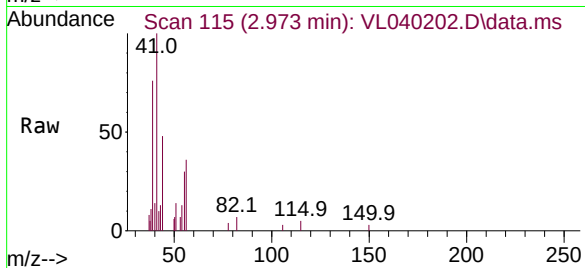
IA-12DL

Tgt Ion: 39 Resp: 1625

Ion Ratio Lower Upper

39 100

54 131.6 66.7 100.1#



#19

Isopropyl Alcohol

Concen: 2.771 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.000 min

Lab File: VL040202.D

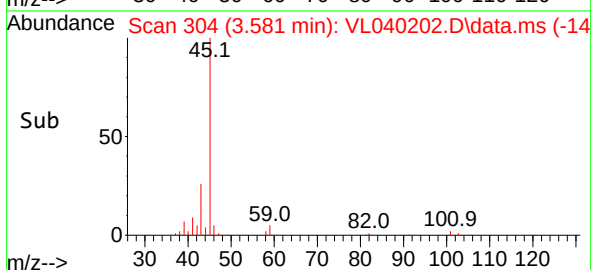
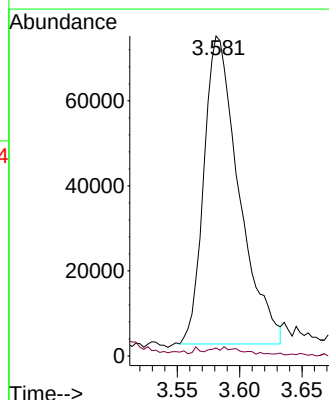
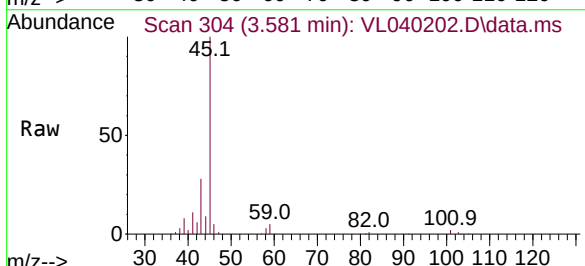
Acq: 21 Feb 2023 19:49

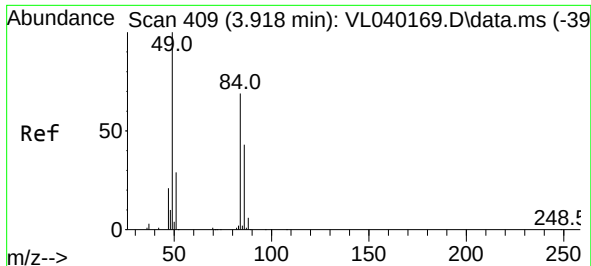
Tgt Ion: 45 Resp: 141851

Ion Ratio Lower Upper

45 100

58 4.2 2.6 3.8#





#20

Methylene Chloride

Concen: 0.632 ppbv

RT: 3.935 min Scan# 414

Delta R.T. -0.003 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Instrument :

MSVOA_1

ClientSampleId :

IA-12DL

Tgt Ion: 84 Resp: 35442

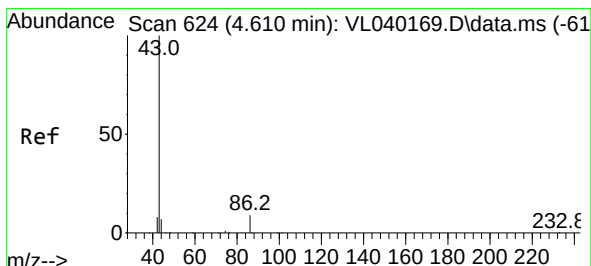
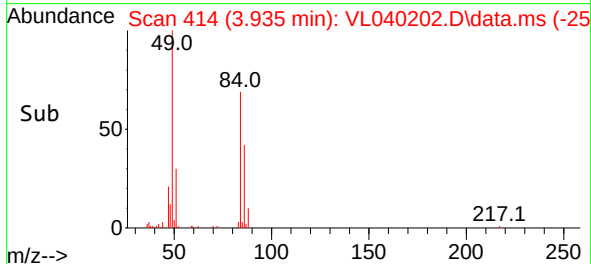
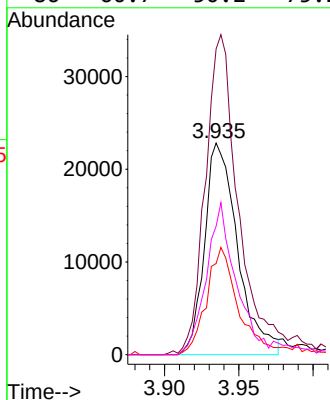
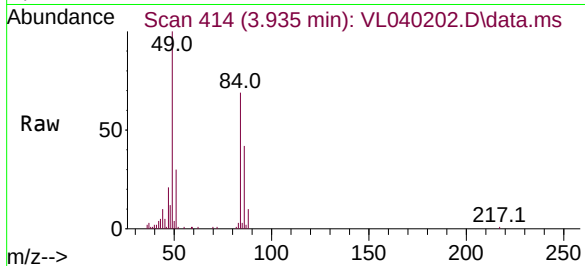
Ion Ratio Lower Upper

84 100

49 143.7 115.5 173.3

51 43.1 33.1 49.7

86 60.7 50.2 75.2



#23

Vinyl Acetate

Concen: 0.069 ppbv

RT: 4.629 min Scan# 630

Delta R.T. -0.010 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Tgt Ion: 43 Resp: 2243

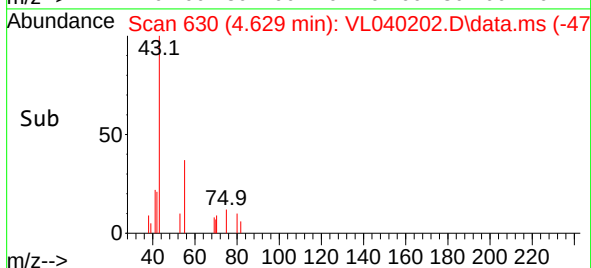
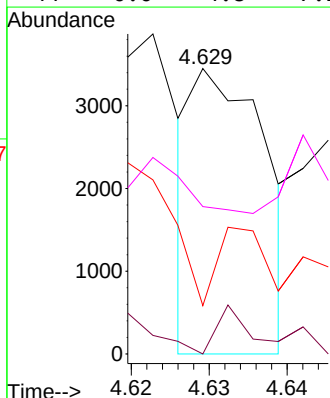
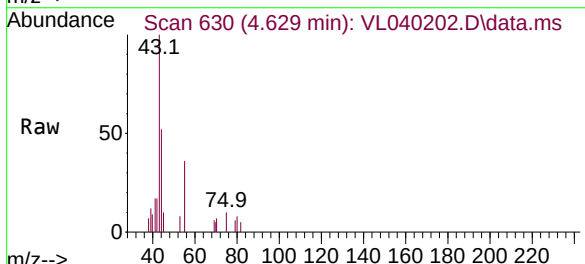
Ion Ratio Lower Upper

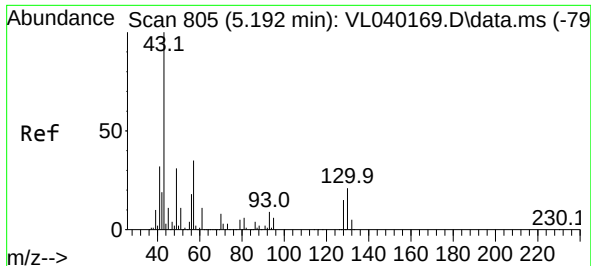
43 100

86 0.0 5.6 8.4#

42 0.0 7.6 11.4#

44 0.0 4.8 7.2#





#25

Ethyl Acetate

Concen: 0.095 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.003 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

IA-12DL

Tgt Ion: 43 Resp: 18973

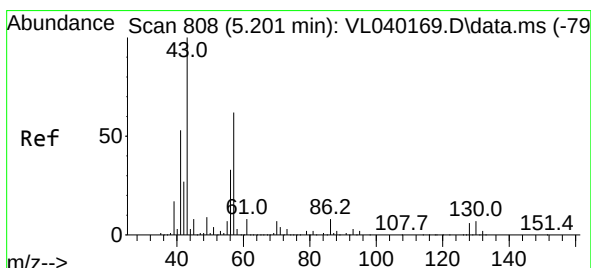
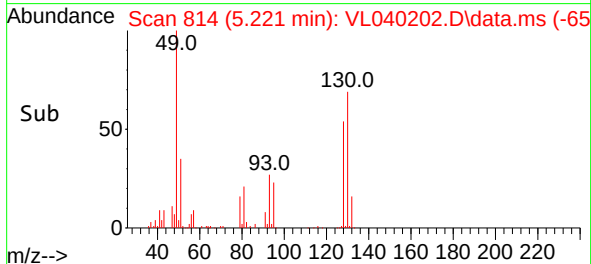
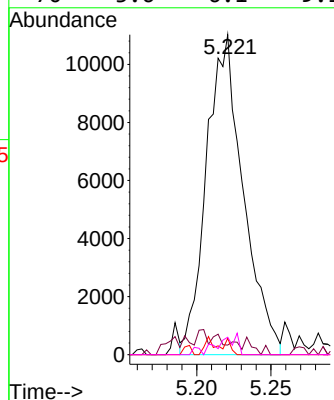
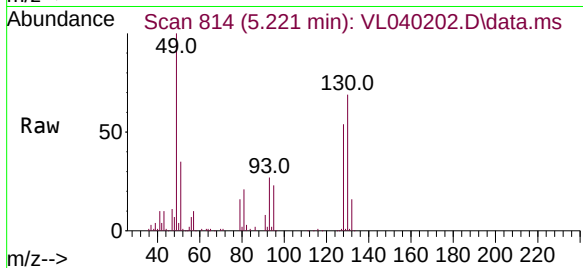
Ion Ratio Lower Upper

43 100

45 10.3 8.3 12.5

61 3.0 8.4 12.6#

70 3.6 6.1 9.1#



#26

Hexane

Concen: 0.228 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.006 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Tgt Ion: 57 Resp: 19624

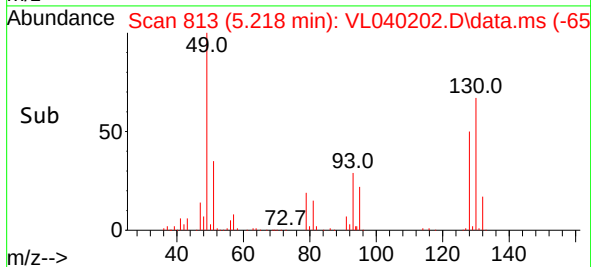
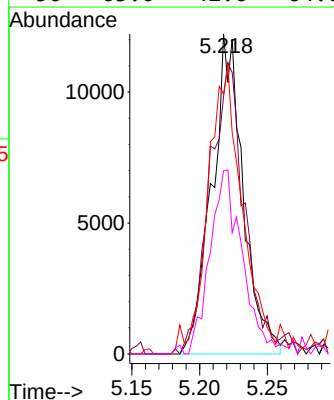
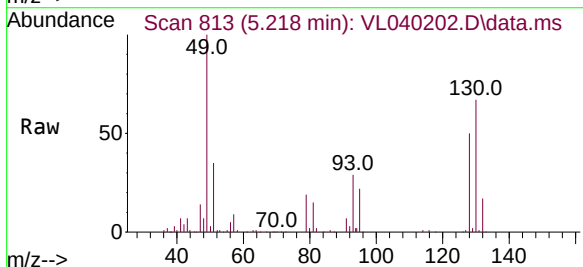
Ion Ratio Lower Upper

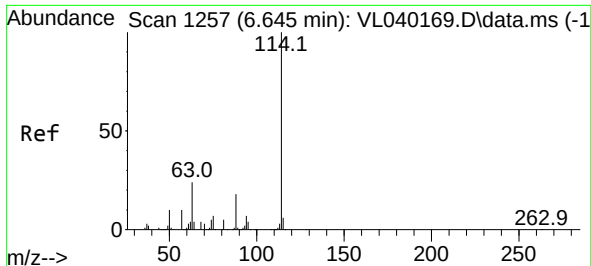
57 100

41 102.8 74.3 111.5

43 103.4 193.0 289.4#

56 63.0 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

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IA-12DL

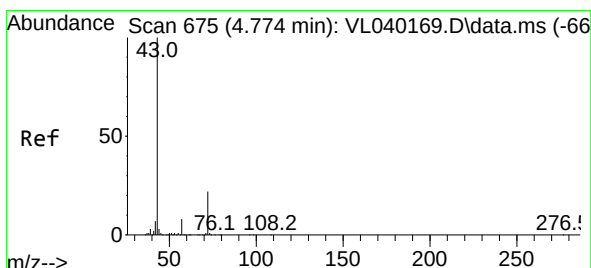
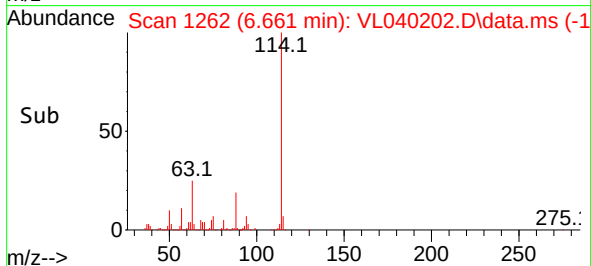
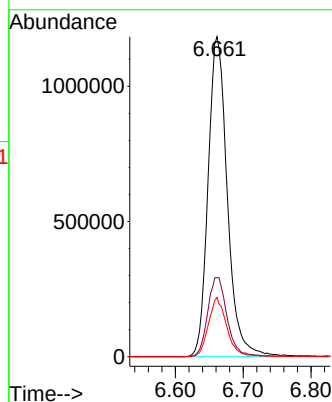
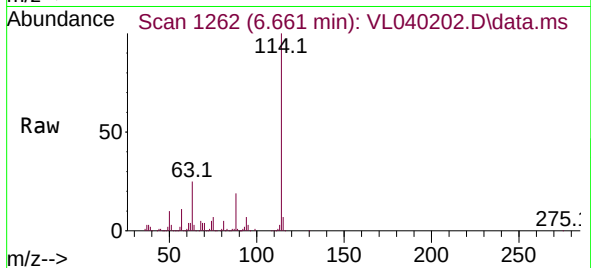
Tgt Ion:114 Resp: 2329695

Ion Ratio Lower Upper

114 100

63 25.3 20.4 30.6

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.036 ppbv

RT: 4.793 min Scan# 681

Delta R.T. -0.003 min

Lab File: VL040202.D

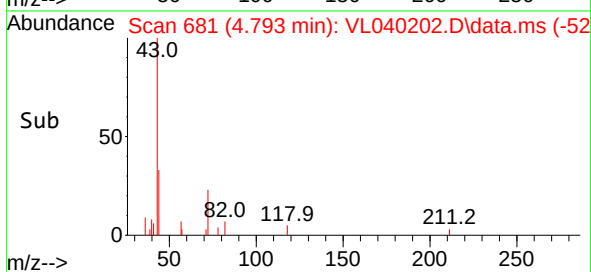
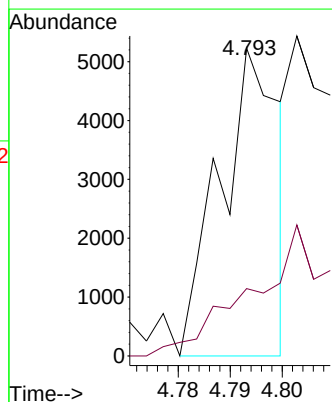
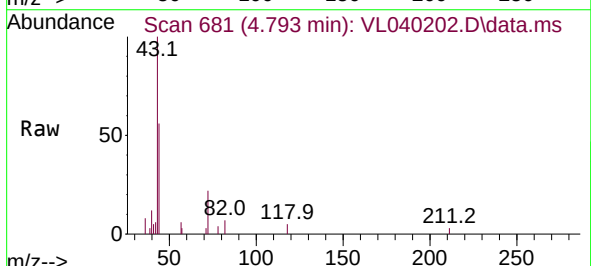
Acq: 21 Feb 2023 19:49

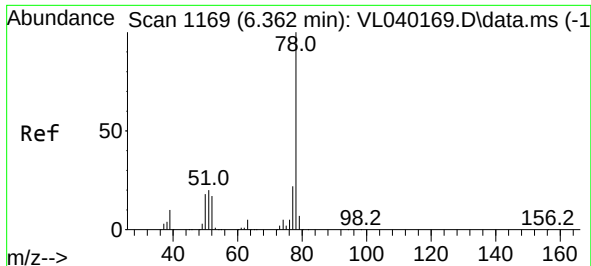
Tgt Ion: 43 Resp: 4109

Ion Ratio Lower Upper

43 100

72 0.0 17.8 26.8#

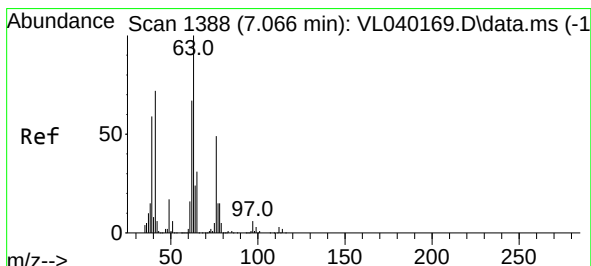
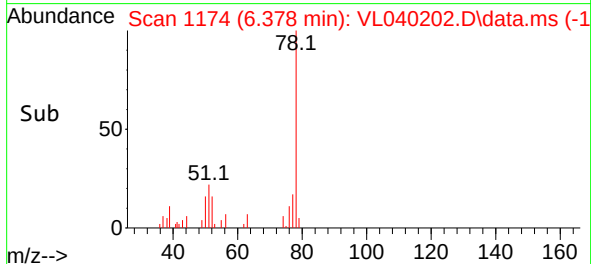
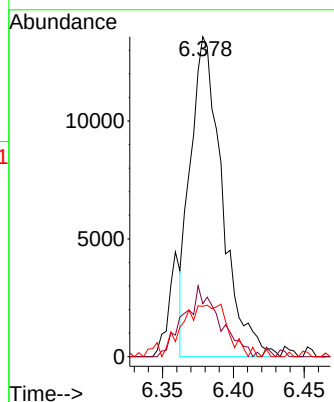
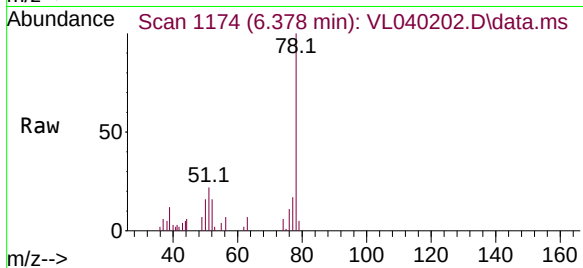




#36
Benzene
Concen: 0.117 ppbv
RT: 6.378 min Scan# 1169
Delta R.T. -0.010 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

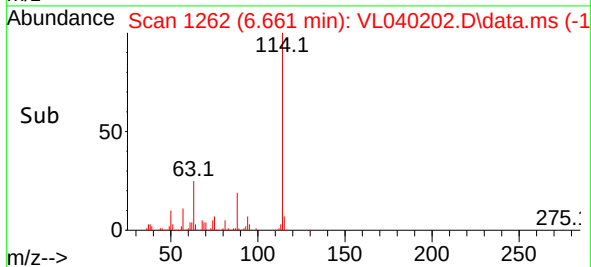
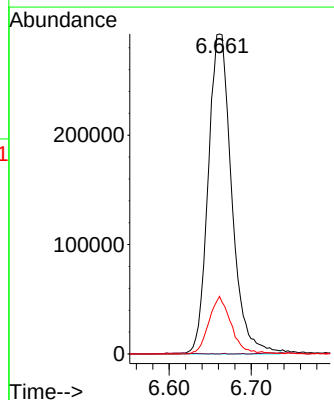
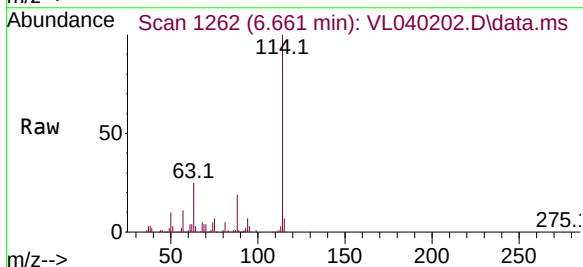
Instrument :
MSVOA_L
ClientSampleId :
IA-12DL

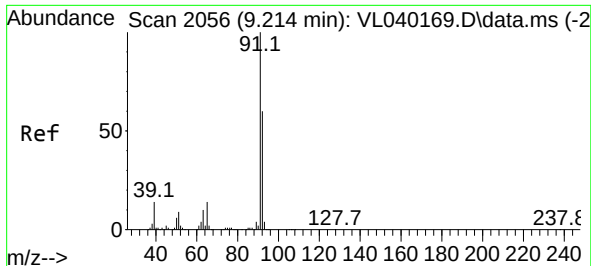
Tgt Ion: 78 Resp: 21166
Ion Ratio Lower Upper
78 100
77 14.5 17.5 26.3#
50 15.8 14.6 22.0



#39
1,2-Dichloropropane
Concen: 8.265 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.434 min
Lab File: VL040202.D
Acq: 21 Feb 2023 19:49

Tgt Ion: 63 Resp: 582936
Ion Ratio Lower Upper
63 100
41 0.0 57.6 86.4#
62 18.0 54.0 81.0#





#53

Toluene

Concen: 0.105 ppbv

RT: 9.227 min Scan# 2056

Delta R.T. -0.019 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

Instrument :

MSVOA_L

ClientSampleId :

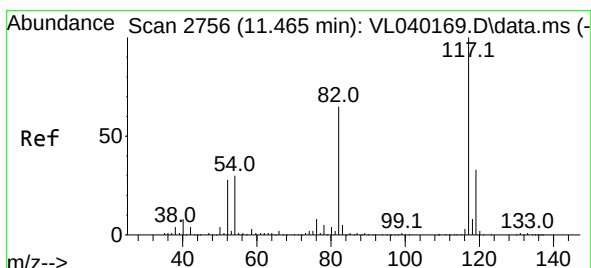
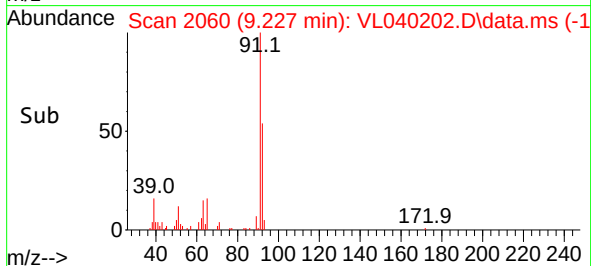
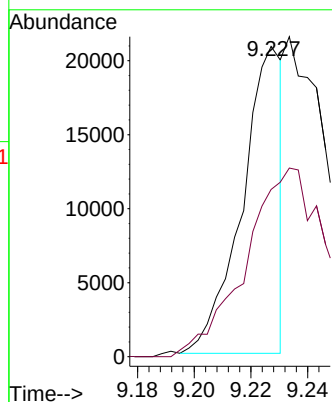
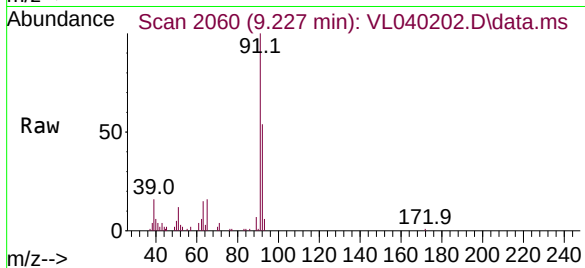
IA-12DL

Tgt Ion: 91 Resp: 20420

Ion Ratio Lower Upper

91 100

92 0.0 48.9 73.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. -0.016 min

Lab File: VL040202.D

Acq: 21 Feb 2023 19:49

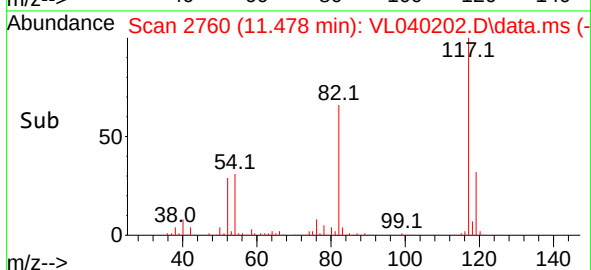
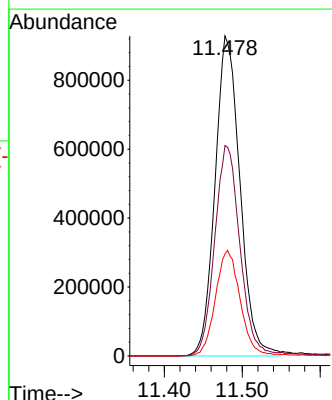
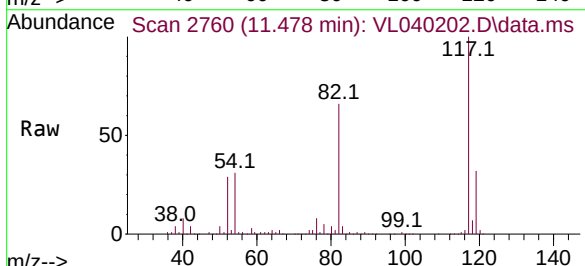
Tgt Ion: 117 Resp: 2068544

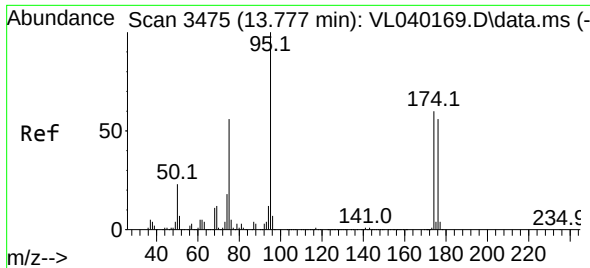
Ion Ratio Lower Upper

117 100

82 67.7 53.3 79.9

119 33.2 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.857 ppbv
 RT: 13.793 min Scan# 34
 Delta R.T. -0.013 min
 Lab File: VL040202.D
 Acq: 21 Feb 2023 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-12DL

Tgt Ion: 95 Resp: 1676596
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.2 72.2
 175 4.1 3.4 5.2

