

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042322.D
 Acq On : 11 Apr 2025 16:08
 Operator : SY/MD
 Sample : Q1665-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025DL

Quant Time: Apr 11 23:02:16 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)

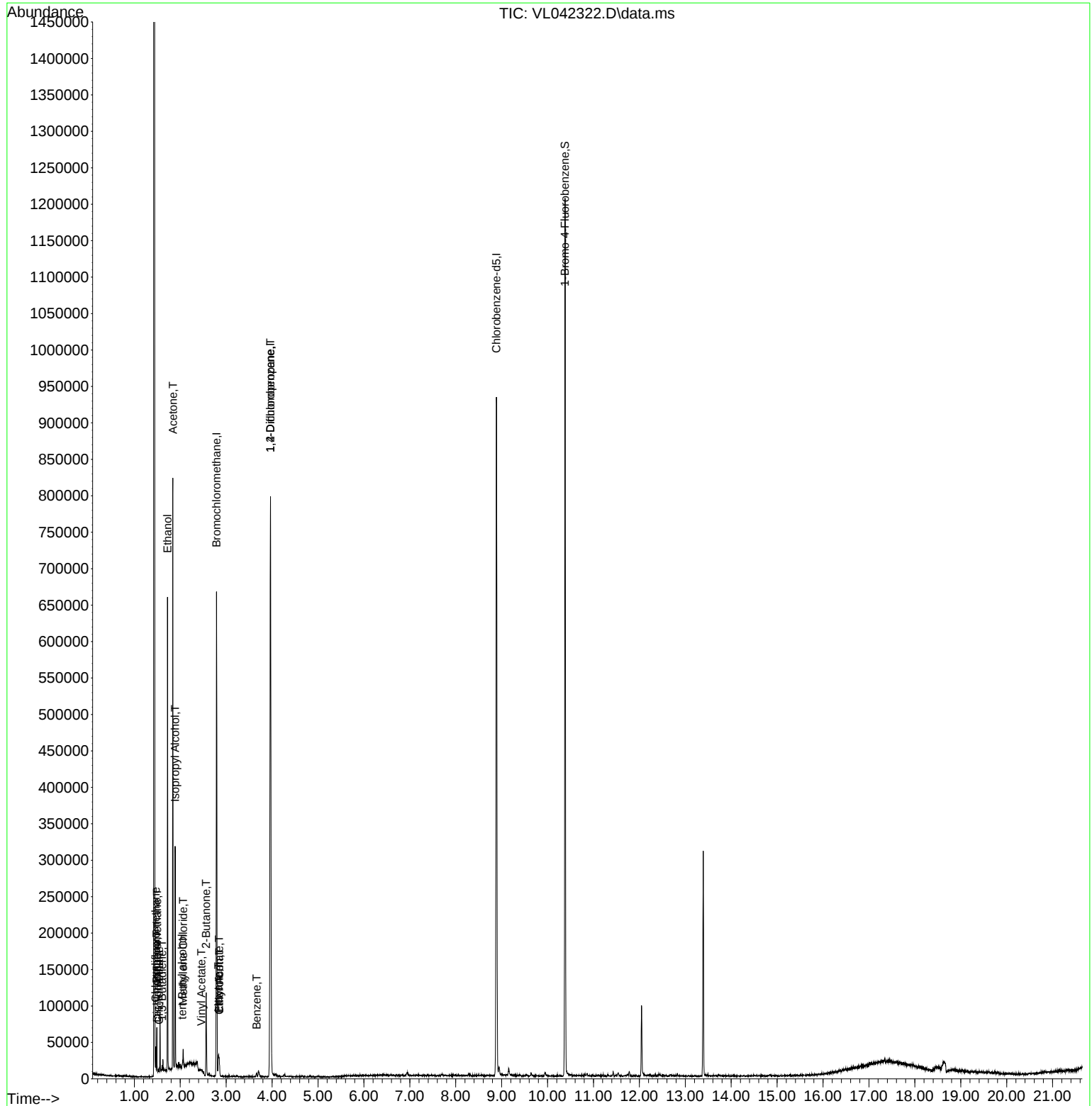
Internal Standards						
1) Bromochloromethane	2.791	49	183437	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	437835	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	360512	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	268511	9.070	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1532	0.057	ppbv #	88
3) Chlorodifluoromethane	1.467	51	9452	0.342	ppbv #	63
4) Chloromethane	1.535	50	874	0.079	ppbv #	80
9) Propene	1.489	41	5497	0.433	ppbv	91
13) Ethanol	1.722	45	212244	177.037	ppbv	84
15) Acetone	1.839	43	354601	13.822	ppbv	95
16) 1,3-Butadiene	1.603	39	745	0.059	ppbv #	55
17) tert-Butyl alcohol	2.046	59	1772	0.055	ppbv #	86
19) Isopropyl Alcohol	1.888	45	127328	8.796	ppbv #	59
20) Methylene Chloride	2.062	84	3179	0.333	ppbv	93
23) Vinyl Acetate	2.460	43	1266	0.114	ppbv #	43
25) Ethyl Acetate	2.846	43	13267	0.199	ppbv #	96
26) Hexane	2.829	57	4958	0.193	ppbv #	79
29) Chloroform	2.852	83	5087	0.135	ppbv	100
34) 2-Butanone	2.564	43	68236	2.149	ppbv	97
36) Benzene	3.664	78	2589	0.060	ppbv	96
39) 1,2-Dichloropropane	3.965	63	113193	7.161	ppbv #	23

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

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IA-B10-2-3242025DL

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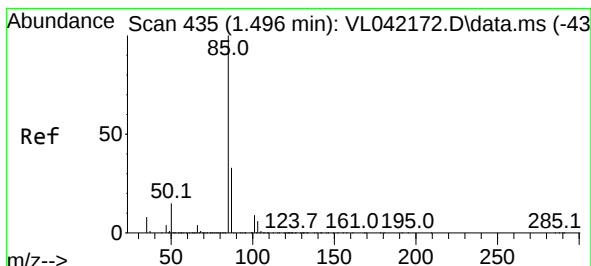
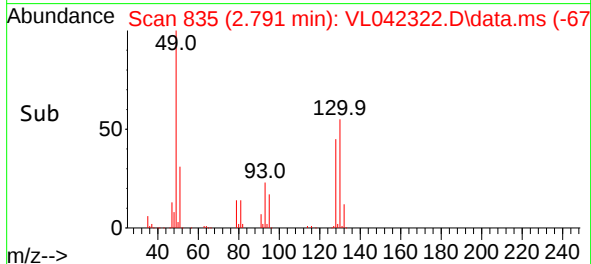
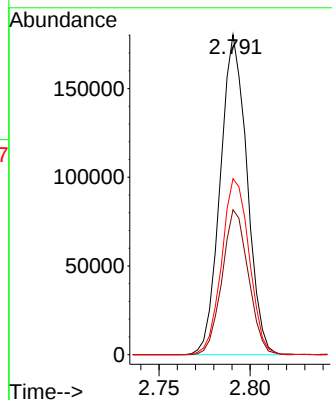
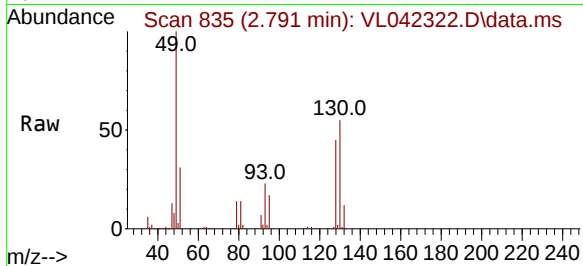




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

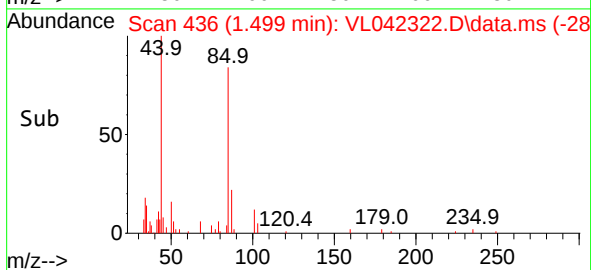
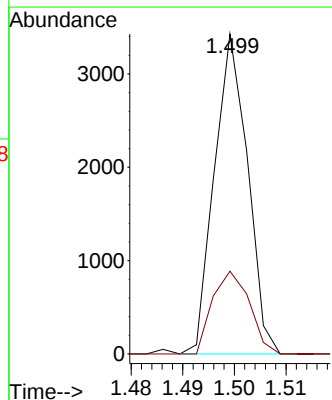
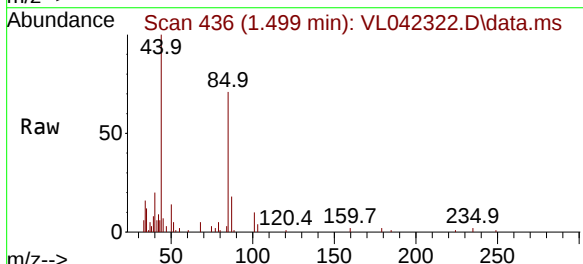
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

Tgt Ion: 49 Resp: 183437
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 56.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.057 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 85 Resp: 1532
Ion Ratio Lower Upper
85 100
87 25.8 26.1 39.1#

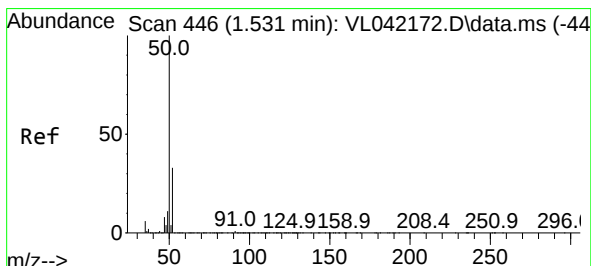
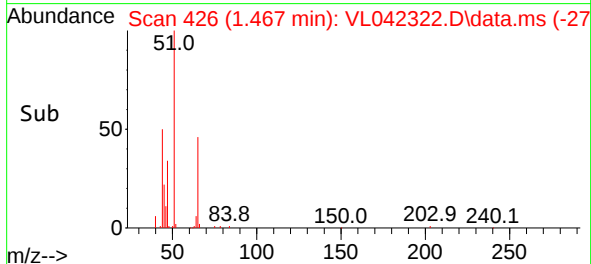
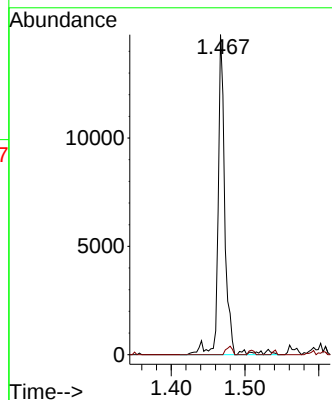
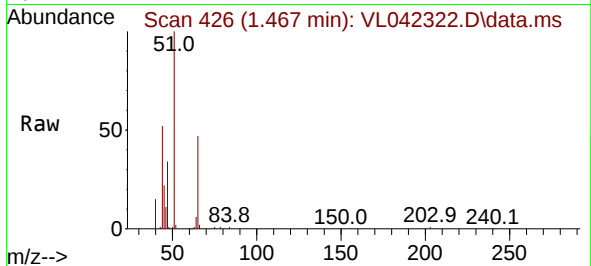




#3
Chlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

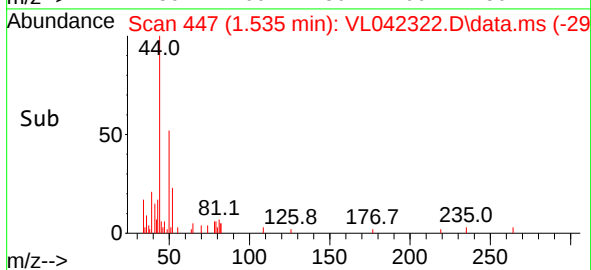
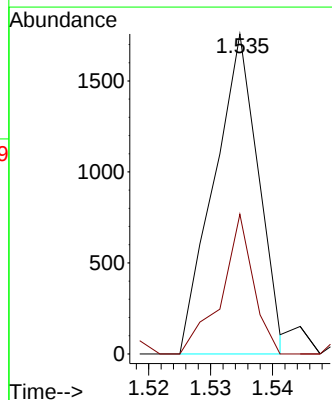
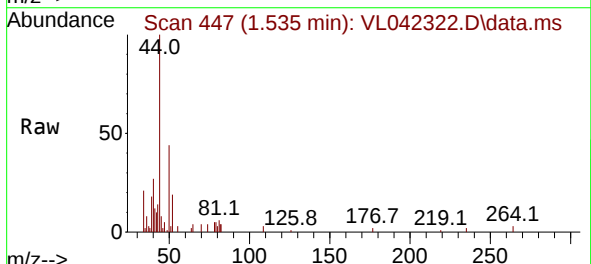
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

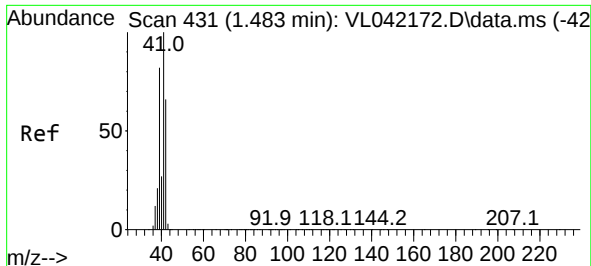
Tgt Ion: 51 Resp: 9452
Ion Ratio Lower Upper
51 100
67 2.4 15.0 22.6#



#4
Chloromethane
Concen: 0.079 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 50 Resp: 874
Ion Ratio Lower Upper
50 100
52 43.6 26.1 39.1#





#9

Propene

Concen: 0.433 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

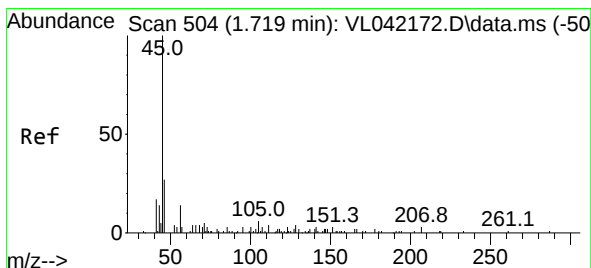
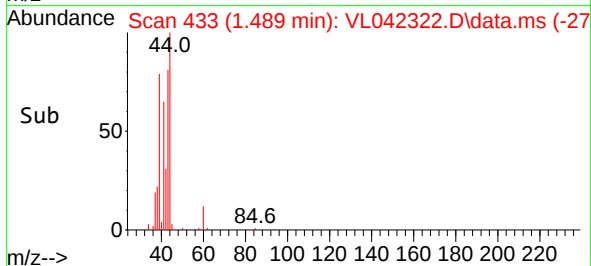
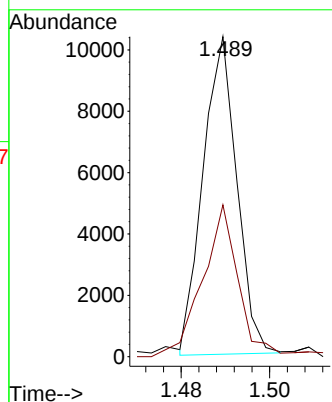
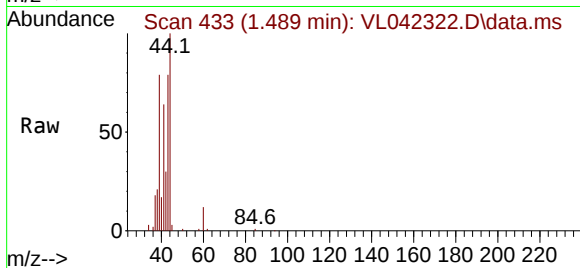
IA-B10-2-3242025DL

Tgt Ion: 41 Resp: 5497

Ion Ratio Lower Upper

41 100

42 62.3 55.4 83.2



#13

Ethanol

Concen: 177.037 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042322.D

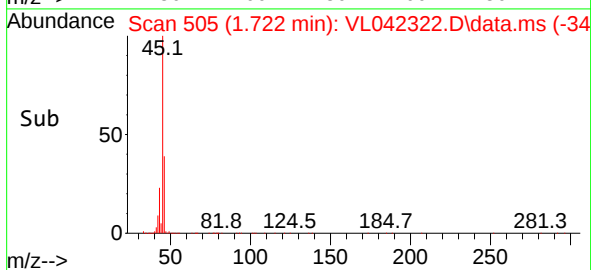
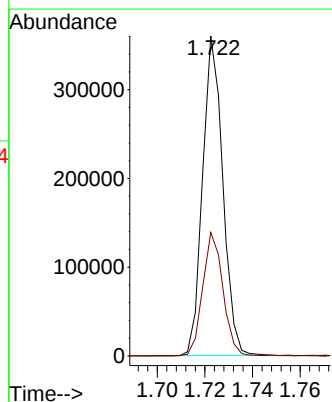
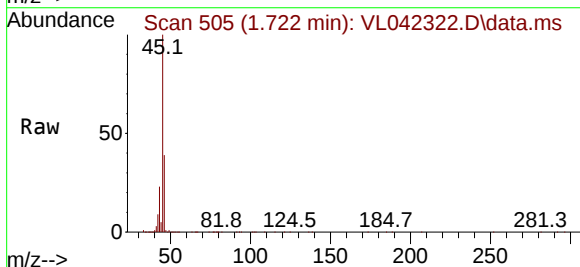
Acq: 11 Apr 2025 16:08

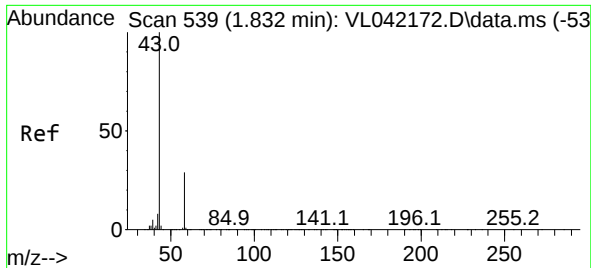
Tgt Ion: 45 Resp: 212244

Ion Ratio Lower Upper

45 100

46 39.1 20.2 80.8





#15

Acetone

Concen: 13.822 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.007 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

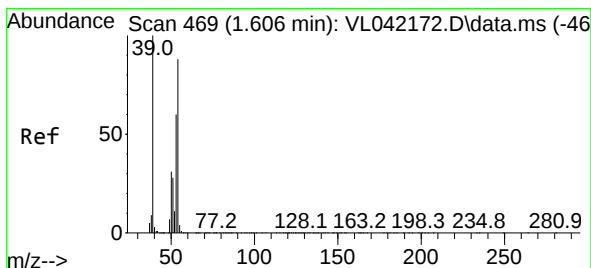
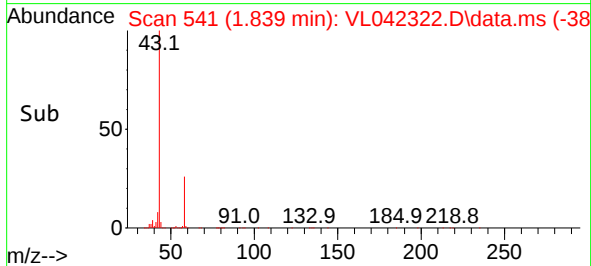
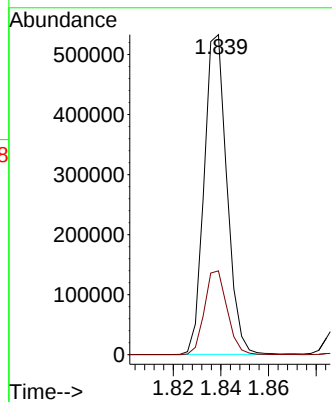
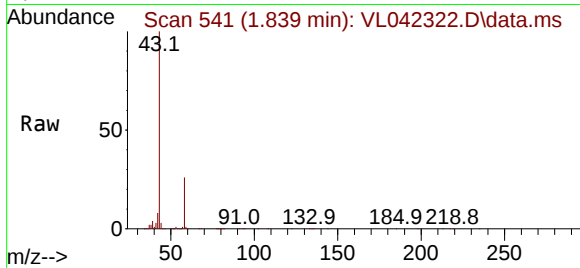
IA-B10-2-3242025DL

Tgt Ion: 43 Resp: 354601

Ion Ratio Lower Upper

43 100

58 26.3 23.2 34.8



#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 1.603 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042322.D

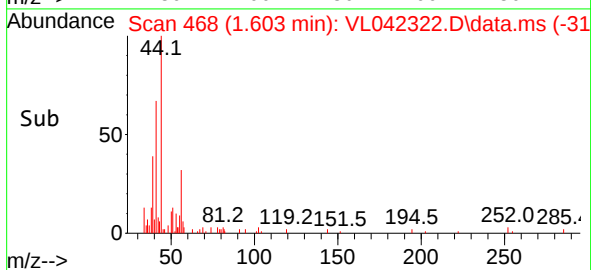
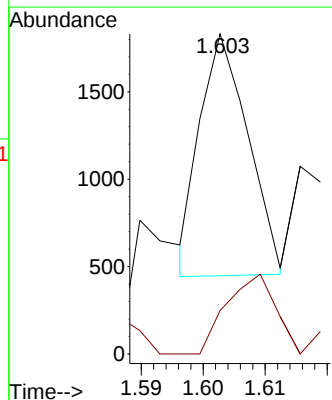
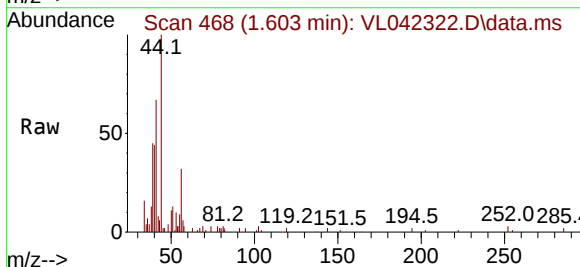
Acq: 11 Apr 2025 16:08

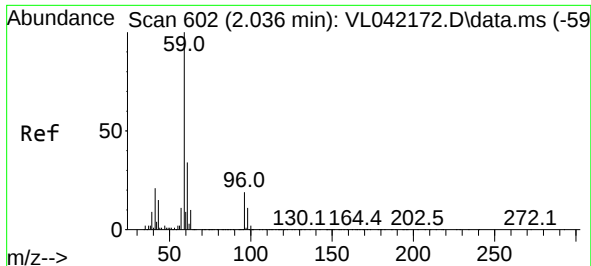
Tgt Ion: 39 Resp: 745

Ion Ratio Lower Upper

39 100

54 36.9 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 2.046 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

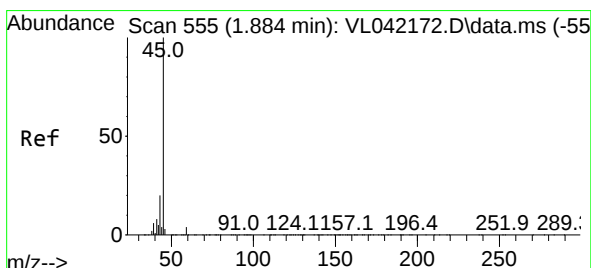
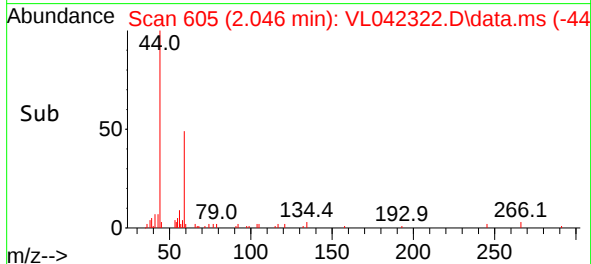
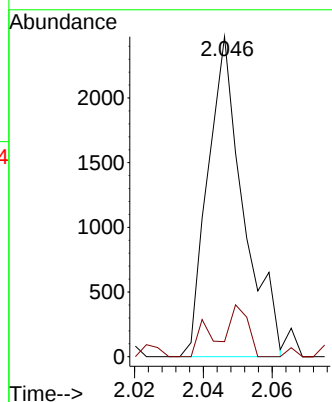
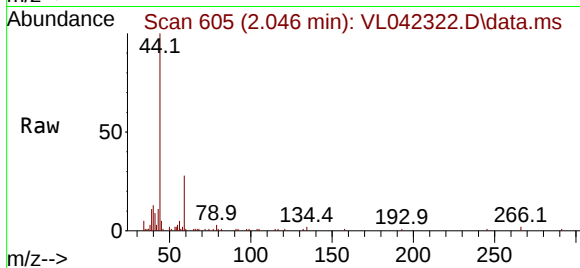
IA-B10-2-3242025DL

Tgt Ion: 59 Resp: 1772

Ion Ratio Lower Upper

59 100

57 16.3 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 8.796 ppbv

RT: 1.888 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042322.D

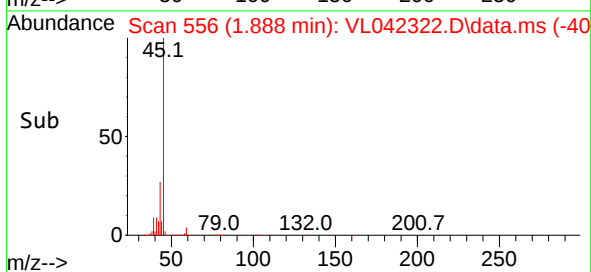
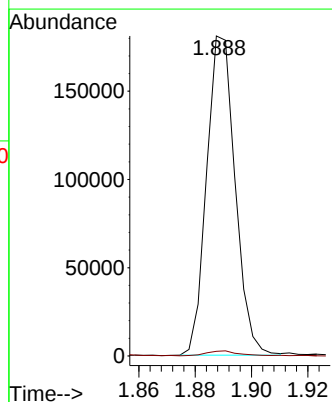
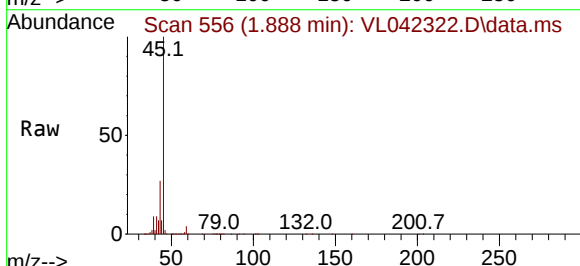
Acq: 11 Apr 2025 16:08

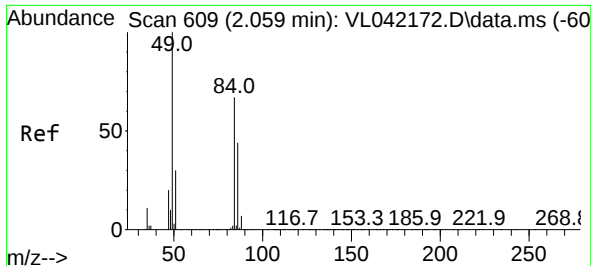
Tgt Ion: 45 Resp: 127328

Ion Ratio Lower Upper

45 100

58 73.2 36.9 55.3#





#20

Methylene Chloride

Concen: 0.333 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042322.D

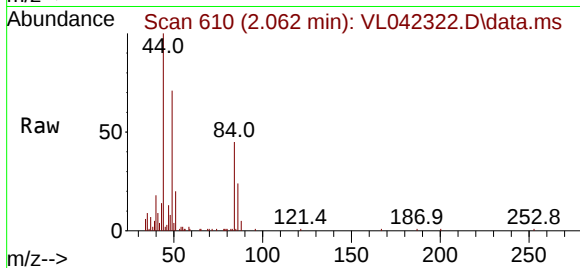
Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025DL



Tgt Ion: 84 Resp: 3179

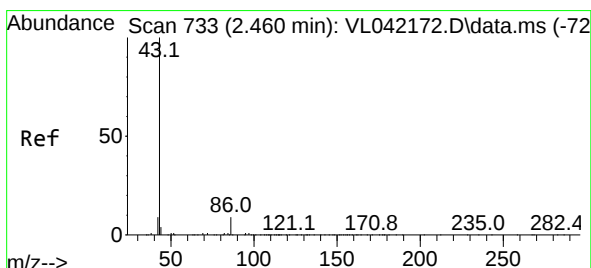
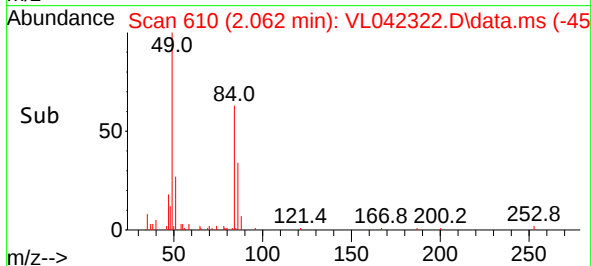
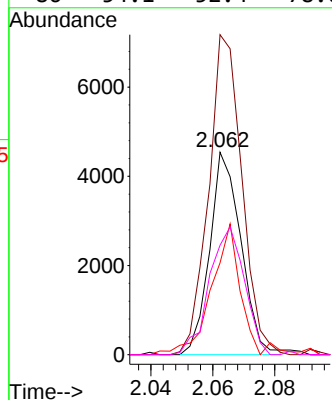
Ion Ratio Lower Upper

84 100

49 156.6 120.2 180.4

51 43.2 37.4 56.0

86 54.1 52.4 78.6



#23

Vinyl Acetate

Concen: 0.114 ppbv

RT: 2.460 min Scan# 733

Delta R.T. 0.000 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Tgt Ion: 43 Resp: 1266

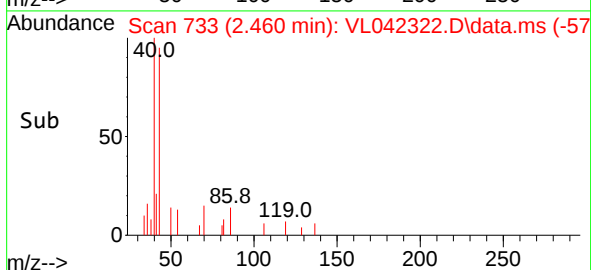
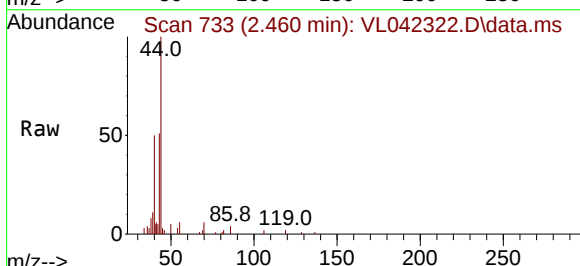
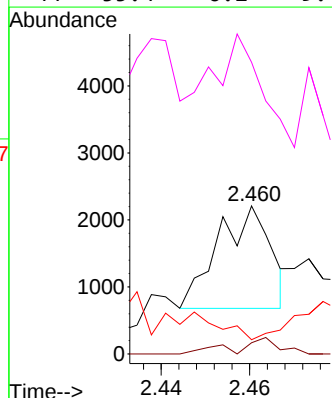
Ion Ratio Lower Upper

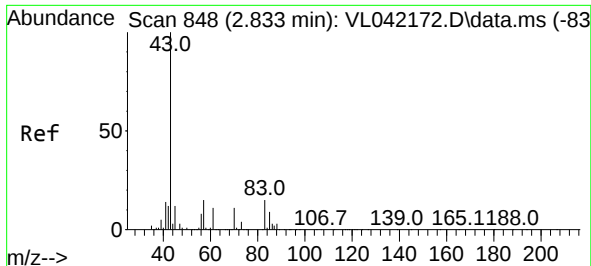
43 100

86 10.9 5.5 8.3#

42 0.0 8.6 13.0#

44 55.4 6.2 9.4#

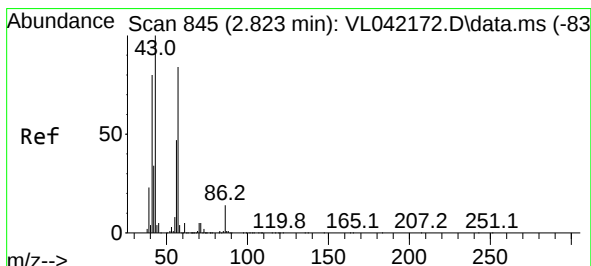
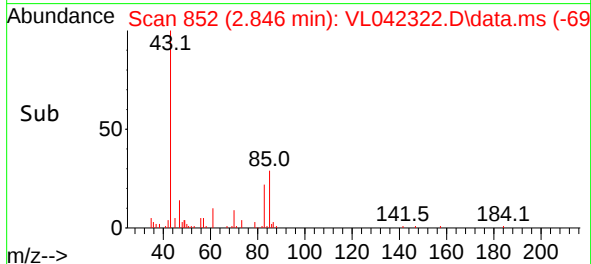
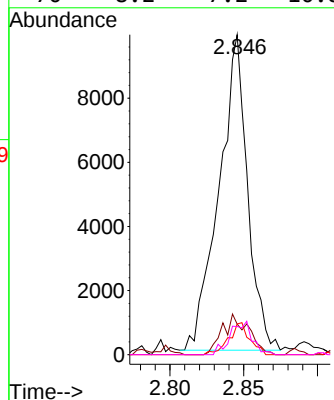
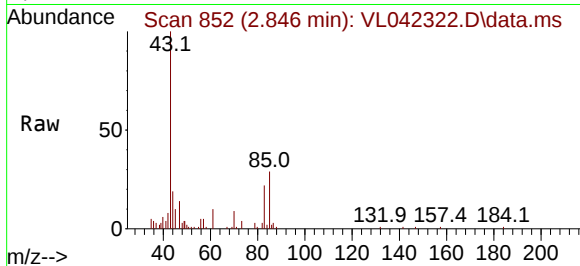




#25
Ethyl Acetate
Concen: 0.199 ppbv
RT: 2.846 min Scan# 848
Delta R.T. 0.013 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

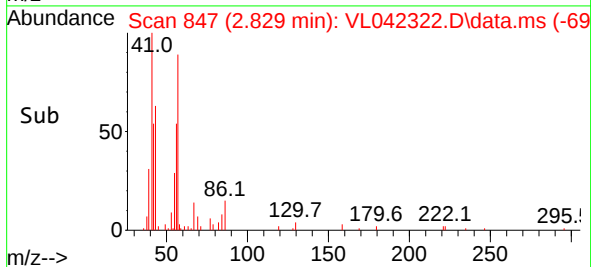
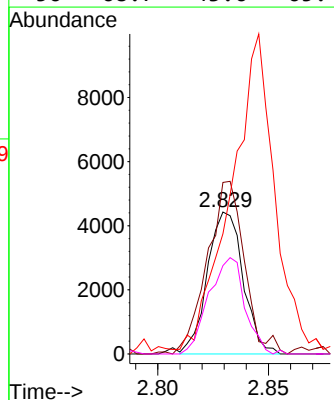
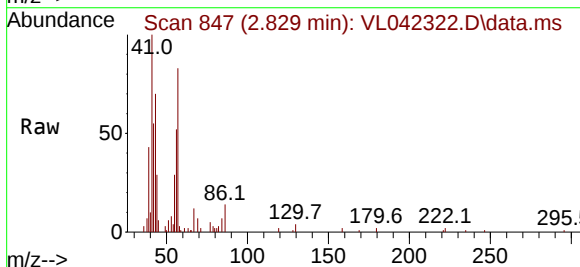
Instrument :
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IA-B10-2-3242025DL

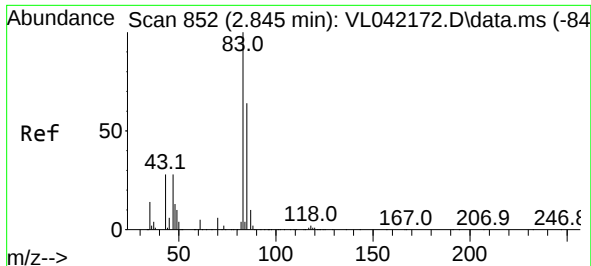
Tgt Ion: 43	Resp: 13267
Ion Ratio	Lower Upper
43 100	
45 12.5	8.2 12.2#
61 7.4	7.3 10.9
70 8.2	7.2 10.8



#26
Hexane
Concen: 0.193 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 57	Resp: 4958
Ion Ratio	Lower Upper
57 100	
41 135.9	76.6 114.8#
43 284.3	207.8 311.8
56 68.7	43.6 65.4#





#29

Chloroform

Concen: 0.135 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

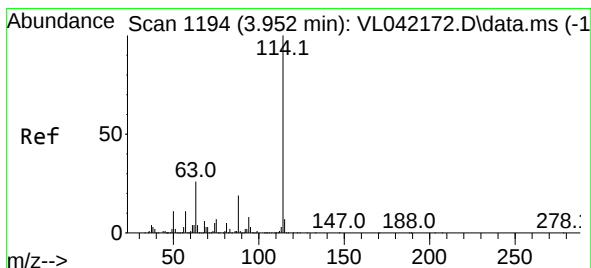
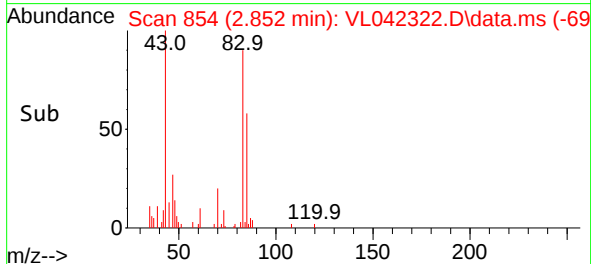
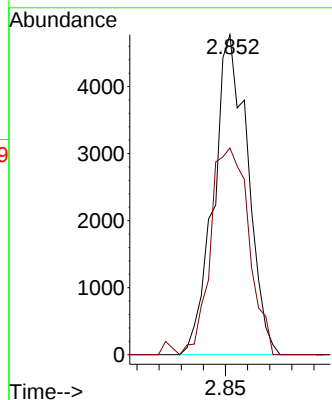
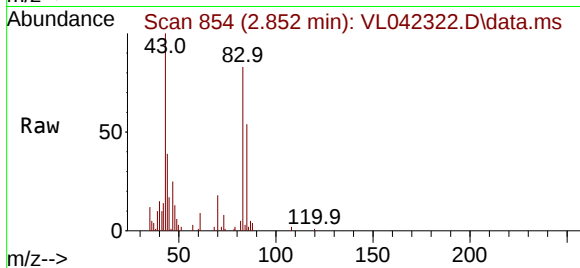
IA-B10-2-3242025DL

Tgt Ion: 83 Resp: 5087

Ion Ratio Lower Upper

83 100

85 64.6 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

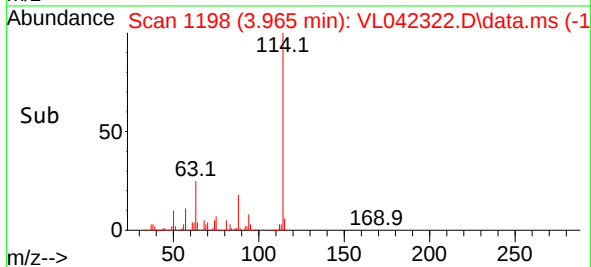
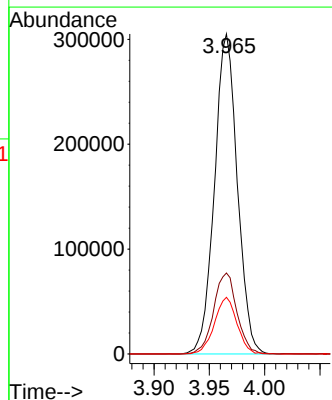
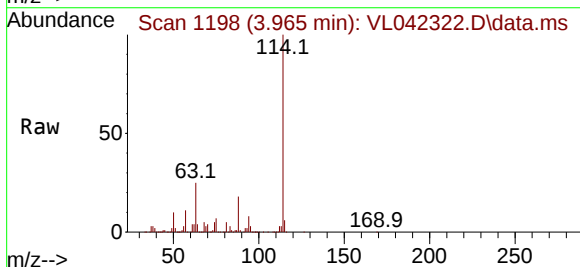
Tgt Ion: 114 Resp: 437835

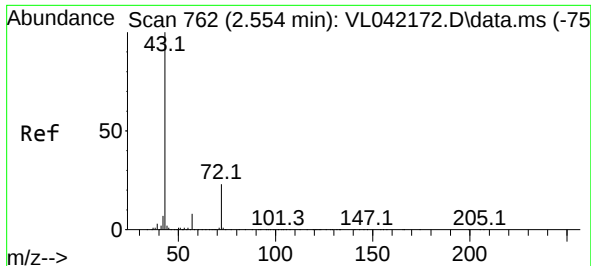
Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 17.5 15.0 22.4

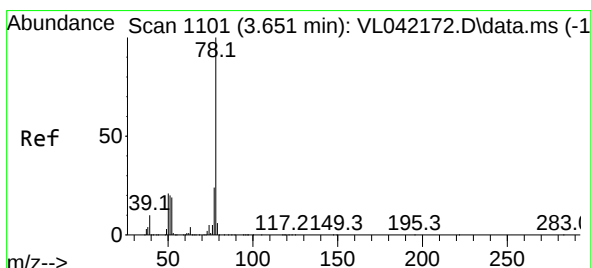
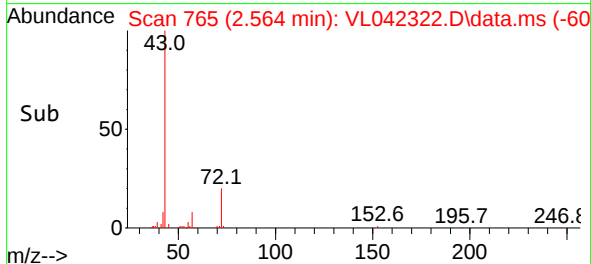
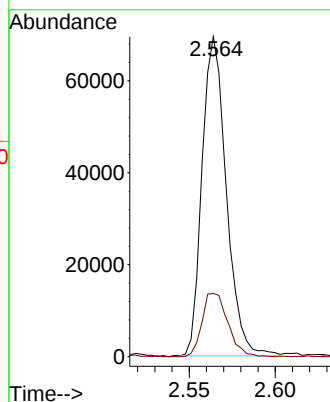
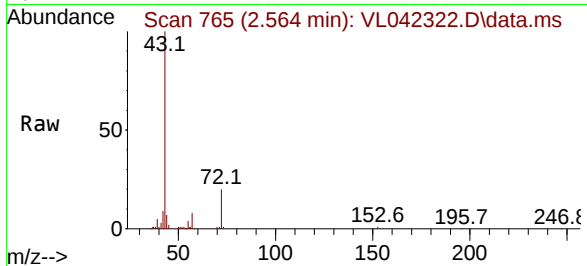




#34
2-Butanone
Concen: 2.149 ppbv
RT: 2.564 min Scan# 710
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

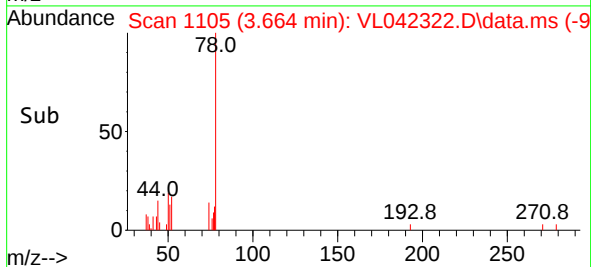
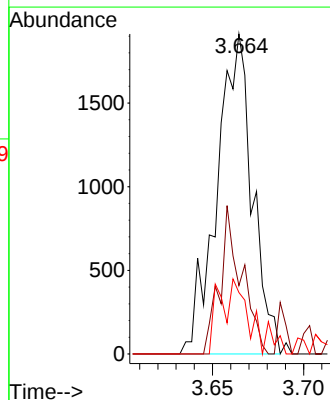
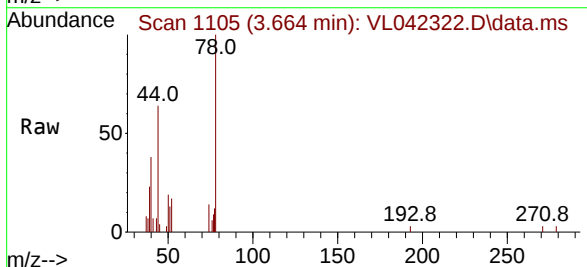
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DL

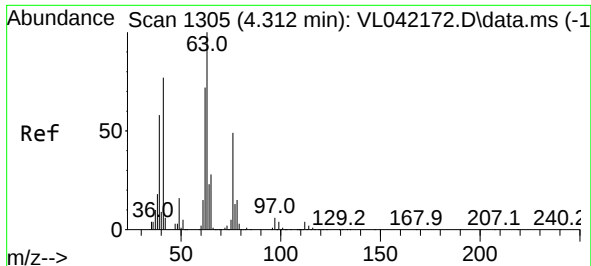
Tgt Ion: 43 Resp: 68236
Ion Ratio Lower Upper
43 100
72 21.2 18.2 27.2



#36
Benzene
Concen: 0.060 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 78 Resp: 2589
Ion Ratio Lower Upper
78 100
77 21.4 19.1 28.7
50 19.2 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.161 ppbv

RT: 3.965 min Scan# 1118

Delta R.T. -0.346 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025DL

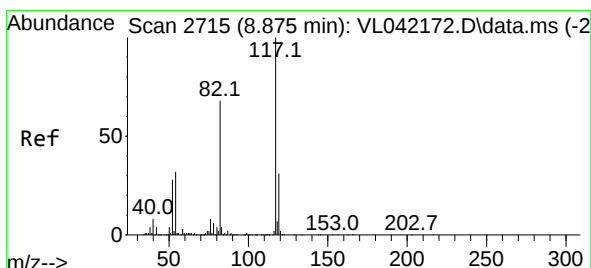
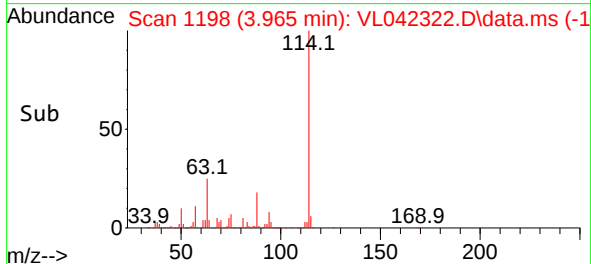
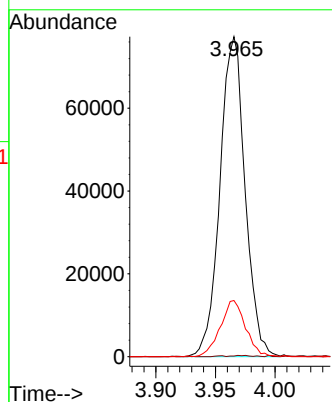
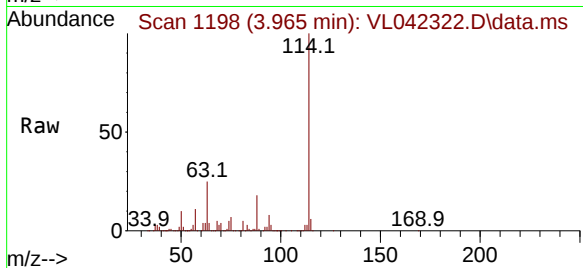
Tgt Ion: 63 Resp: 113193

Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 17.5 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.010 min

Lab File: VL042322.D

Acq: 11 Apr 2025 16:08

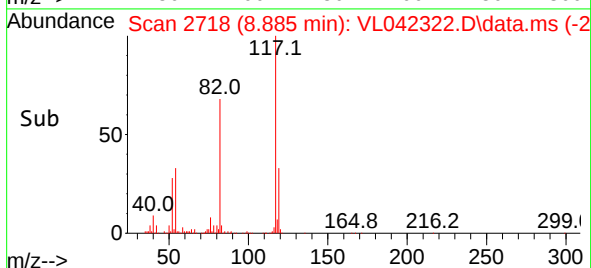
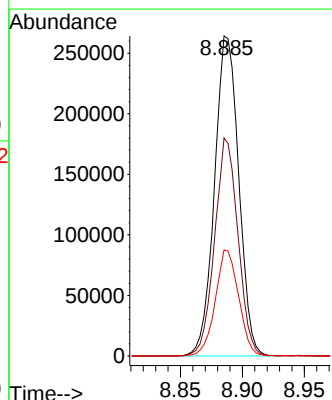
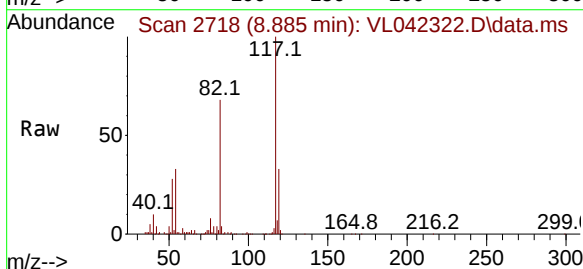
Tgt Ion: 117 Resp: 360512

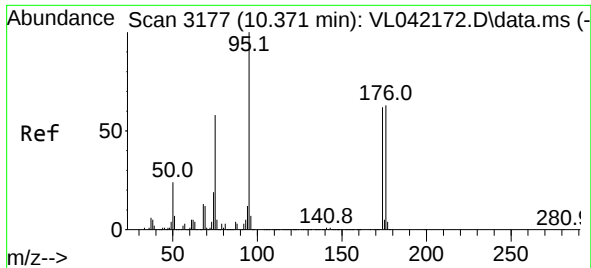
Ion Ratio Lower Upper

117 100

82 65.6 55.8 83.6

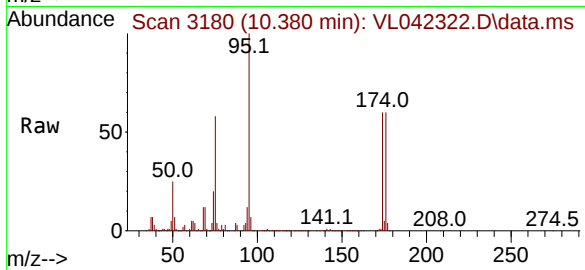
119 31.9 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.070 ppbv
 RT: 10.380 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL042322.D
 Acq: 11 Apr 2025 16:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025DL



Tgt Ion: 95 Resp: 268511
 Ion Ratio Lower Upper
 95 100
 174 64.6 50.6 76.0
 175 4.7 3.8 5.6

