

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042324.D
 Acq On : 11 Apr 2025 17:10
 Operator : SY/MD
 Sample : Q1665-11DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 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)

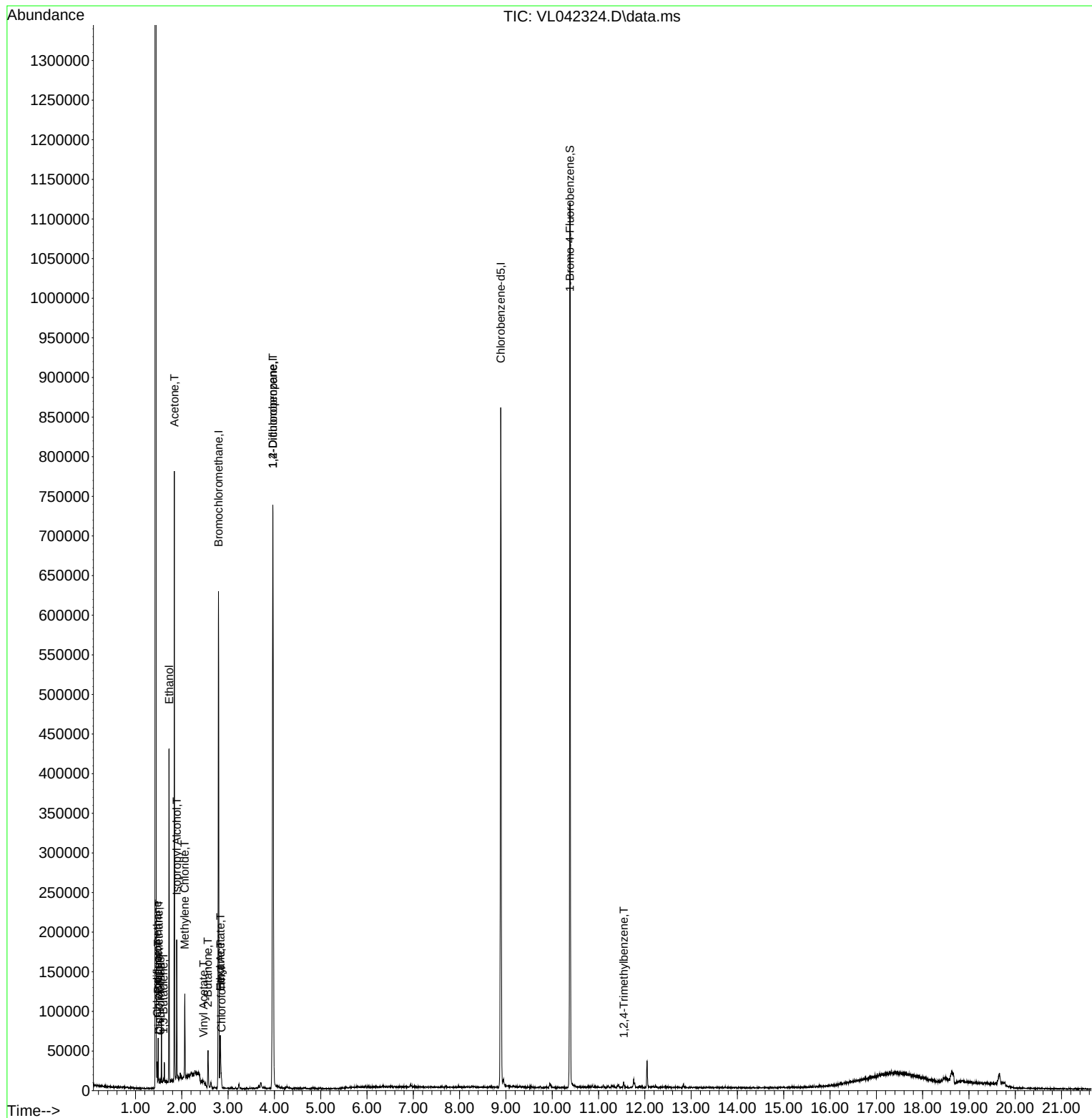
Internal Standards						
1) Bromochloromethane	2.793	49	176603	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	398133	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	325777	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	246592	9.217	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1409	0.054	ppbv	100
3) Chlorodifluoromethane	1.470	51	7277	0.273	ppbv #	64
4) Chloromethane	1.534	50	743	0.070	ppbv #	29
9) Propene	1.489	41	4857	0.398	ppbv	87
13) Ethanol	1.725	45	151755	131.481	ppbv	81
15) Acetone	1.839	43	316091	12.798	ppbv	96
16) 1,3-Butadiene	1.602	39	1089	0.090	ppbv #	58
19) Isopropyl Alcohol	1.890	45	67257	4.826	ppbv #	1
20) Methylene Chloride	2.065	84	15039	1.635	ppbv	90
23) Vinyl Acetate	2.473	43	551	0.052	ppbv #	38
25) Ethyl Acetate	2.832	43	12443	0.194	ppbv #	90
26) Hexane	2.832	57	10875	0.439	ppbv #	41
29) Chloroform	2.855	83	3694	0.102	ppbv	97
34) 2-Butanone	2.564	43	28789	0.997	ppbv	97
39) 1,2-Dichloropropane	3.968	63	104076	7.240	ppbv #	21
74) 1,2,4-Trimethylbenzene	11.545	105	2245	0.039	ppbv #	66

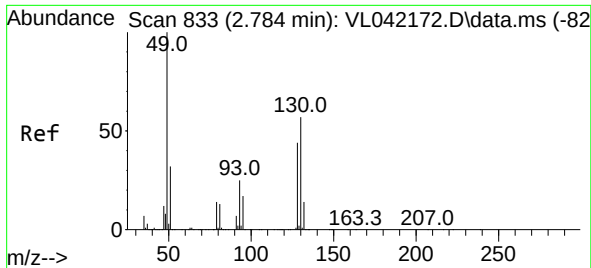
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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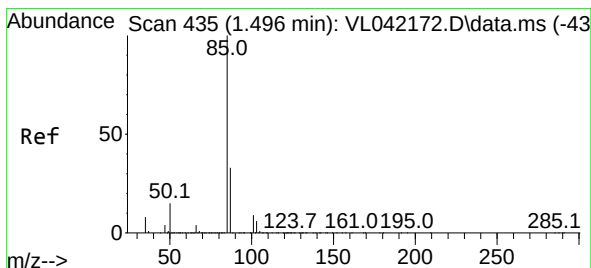
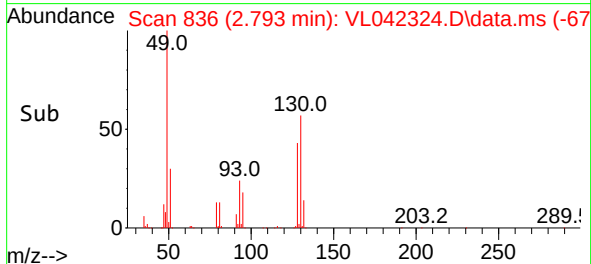
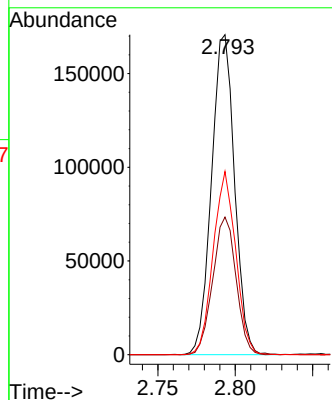
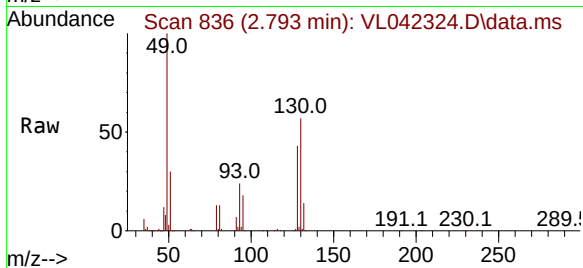




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

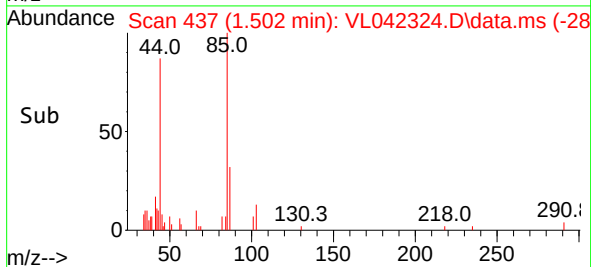
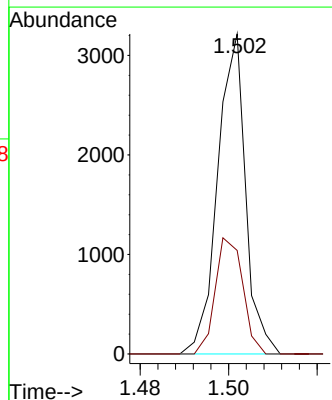
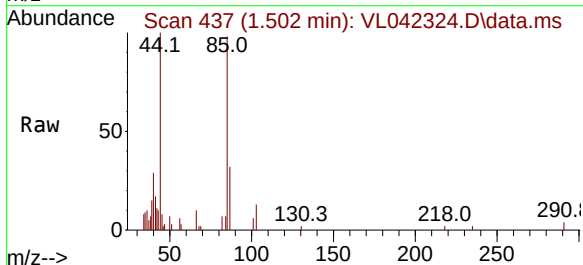
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

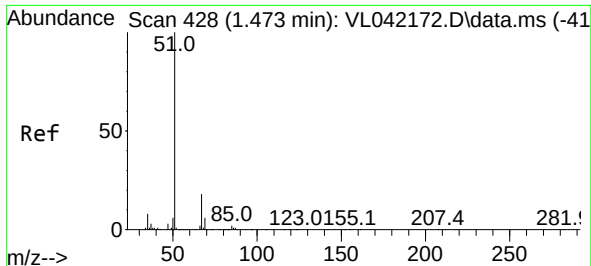
Tgt Ion: 49 Resp: 176603
Ion Ratio Lower Upper
49 100
128 43.4 22.9 68.5
130 56.0 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 85 Resp: 1409
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1

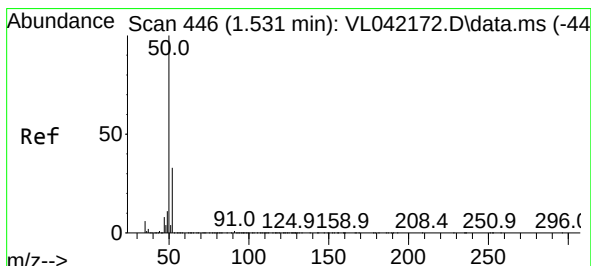
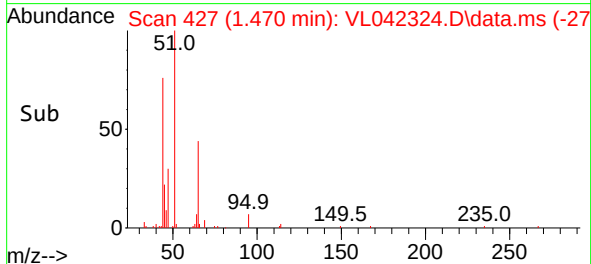
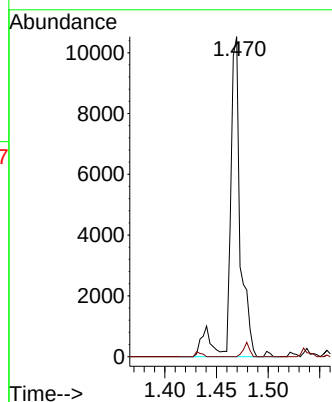
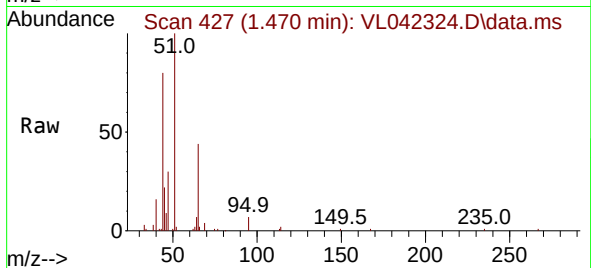




#3
Chlorodifluoromethane
Concen: 0.273 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

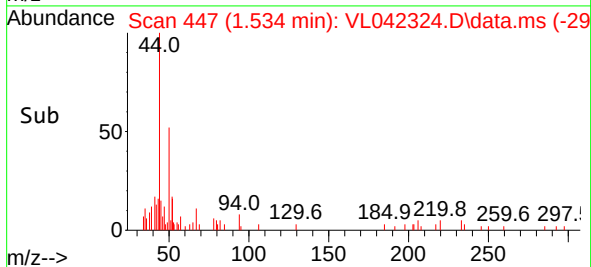
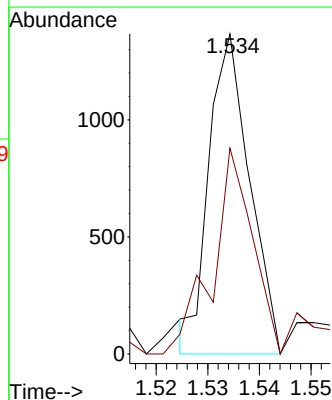
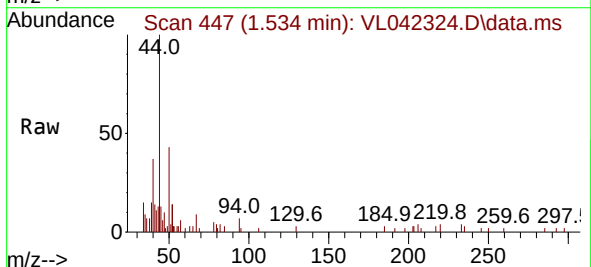
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

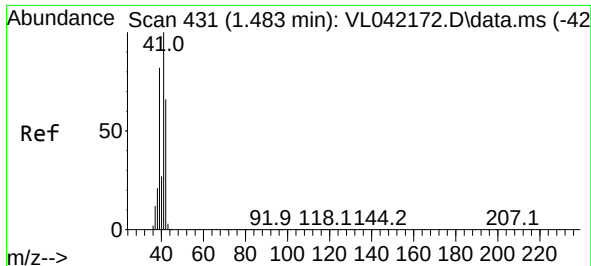
Tgt Ion: 51 Resp: 7277
Ion Ratio Lower Upper
51 100
67 2.6 15.0 22.6#



#4
Chloromethane
Concen: 0.070 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 50 Resp: 743
Ion Ratio Lower Upper
50 100
52 72.4 26.1 39.1#





#9

Propene

Concen: 0.398 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

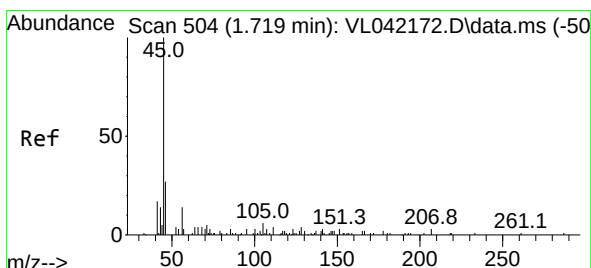
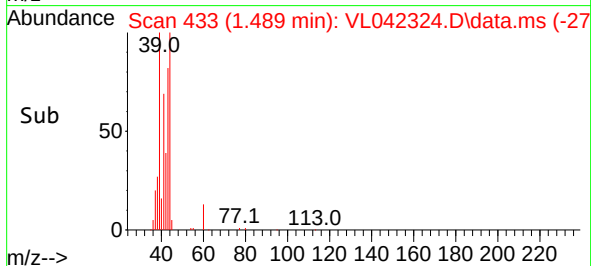
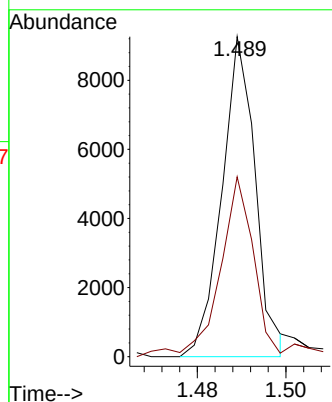
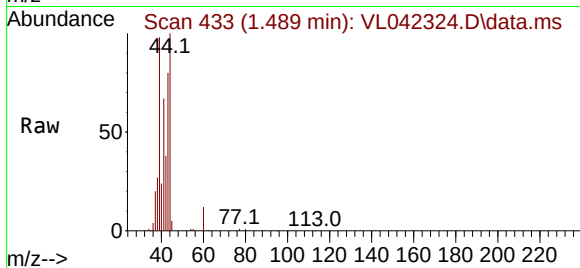
IA-B10-1-3242025DL

Tgt Ion: 41 Resp: 4857

Ion Ratio Lower Upper

41 100

42 59.0 55.4 83.2



#13

Ethanol

Concen: 131.481 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL042324.D

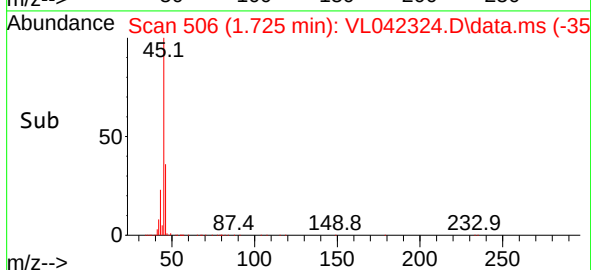
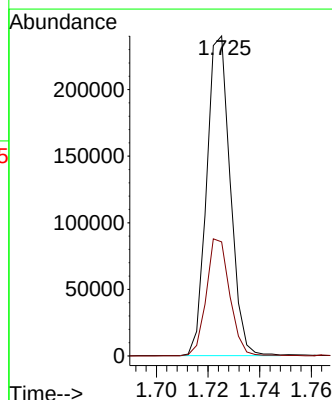
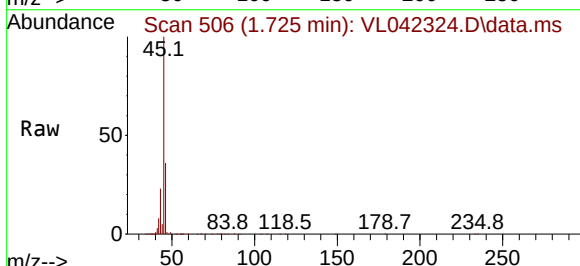
Acq: 11 Apr 2025 17:10

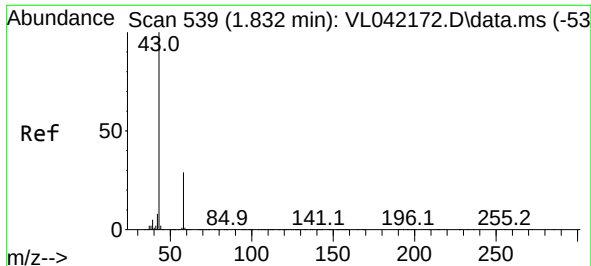
Tgt Ion: 45 Resp: 151755

Ion Ratio Lower Upper

45 100

46 37.0 20.2 80.8





#15

Acetone

Concen: 12.798 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

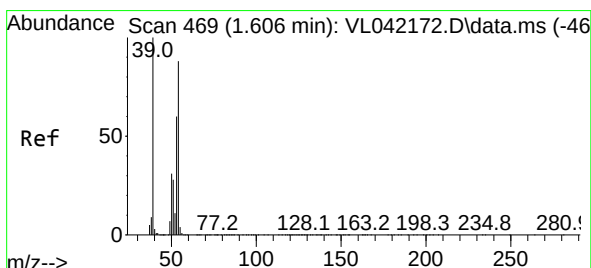
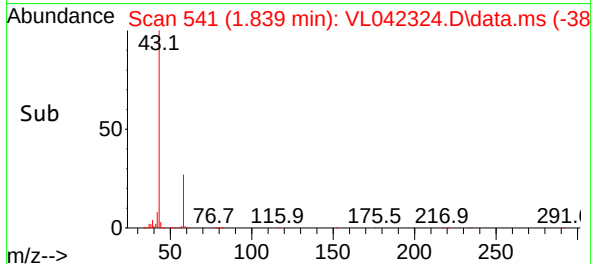
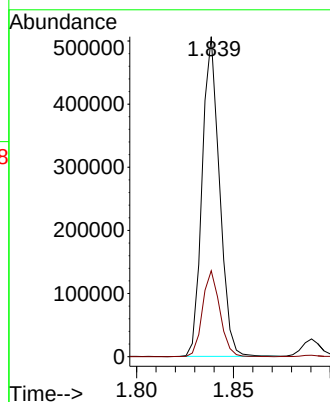
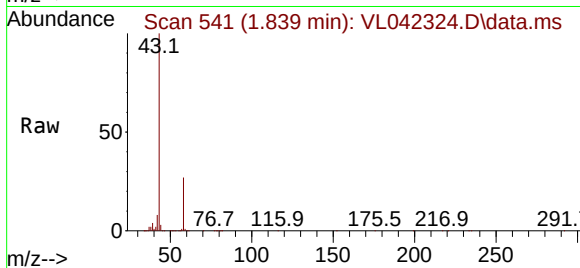
LA-B10-1-3242025DL

Tgt Ion: 43 Resp: 316091

Ion Ratio Lower Upper

43 100

58 26.9 23.2 34.8



#16

1,3-Butadiene

Concen: 0.090 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.004 min

Lab File: VL042324.D

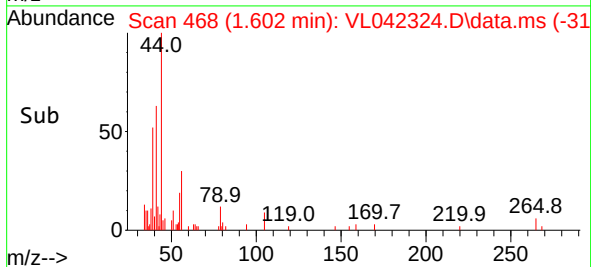
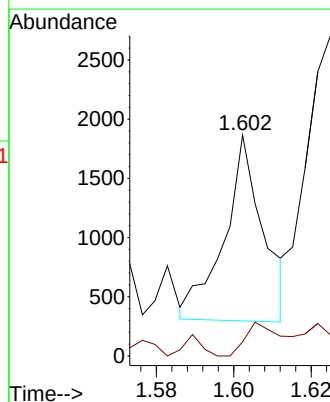
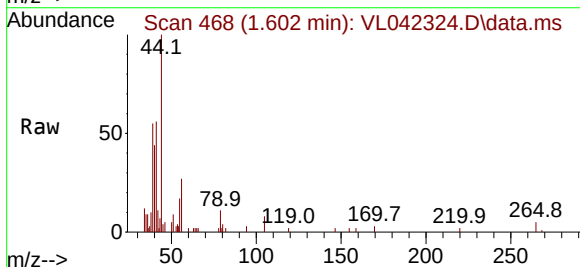
Acq: 11 Apr 2025 17:10

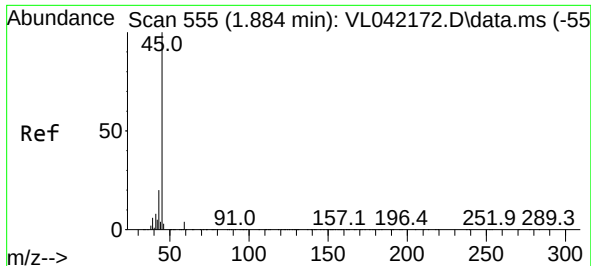
Tgt Ion: 39 Resp: 1089

Ion Ratio Lower Upper

39 100

54 40.1 60.7 91.1#





#19

Isopropyl Alcohol

Concen: 4.826 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

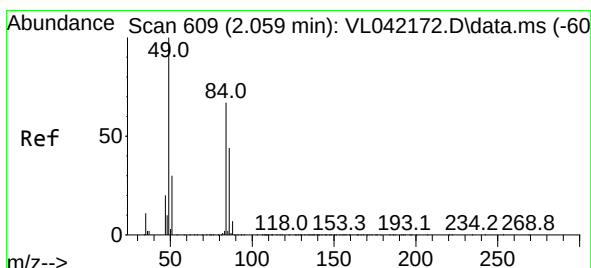
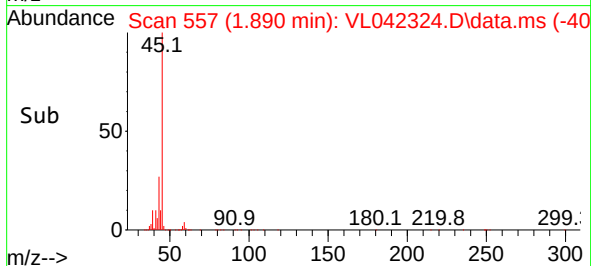
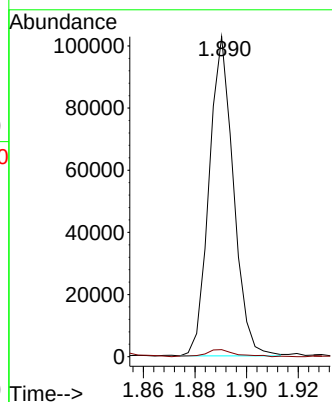
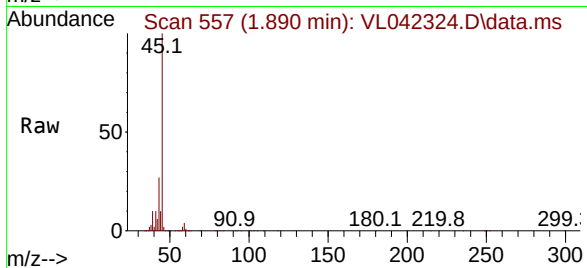
IA-B10-1-3242025DL

Tgt Ion: 45 Resp: 67257

Ion Ratio Lower Upper

45 100

58 126.4 36.9 55.3#



#20

Methylene Chloride

Concen: 1.635 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Tgt Ion: 84 Resp: 15039

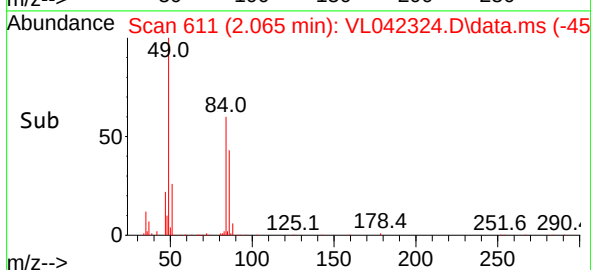
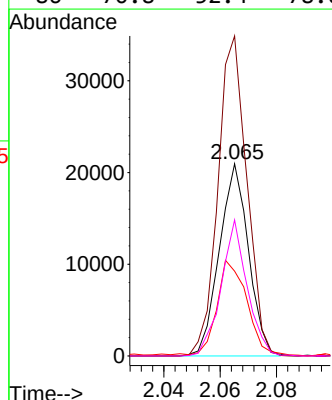
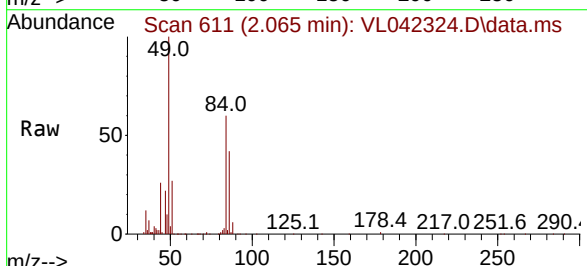
Ion Ratio Lower Upper

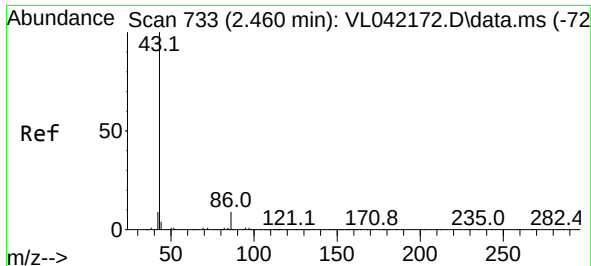
84 100

49 166.5 120.2 180.4

51 42.7 37.4 56.0

86 70.8 52.4 78.6

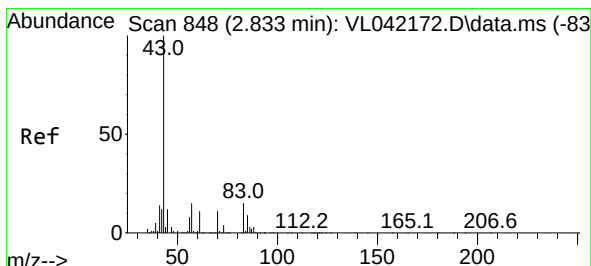
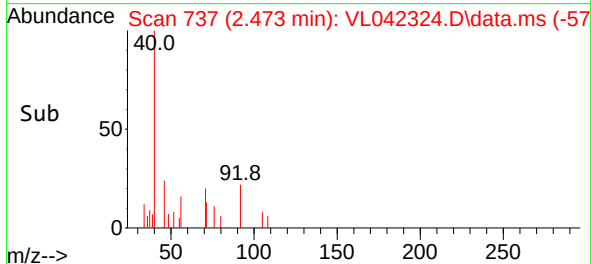
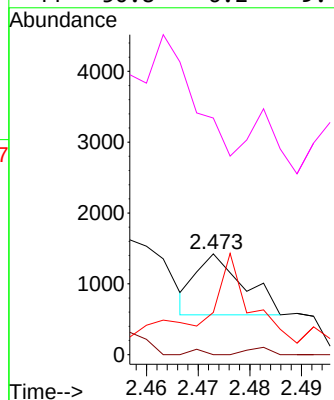
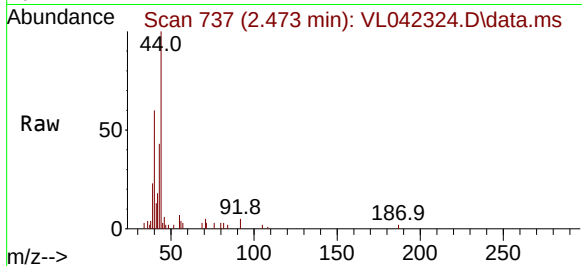




#23
 Vinyl Acetate
 Concen: 0.052 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042324.D
 Acq: 11 Apr 2025 17:10

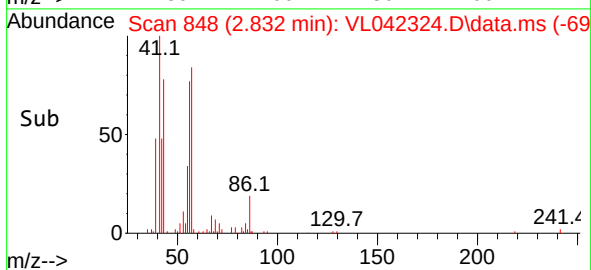
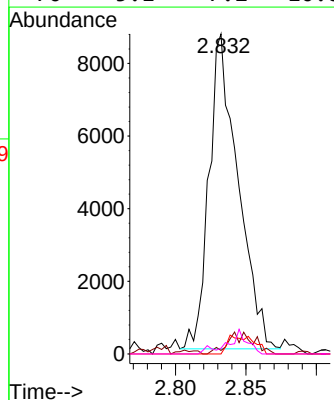
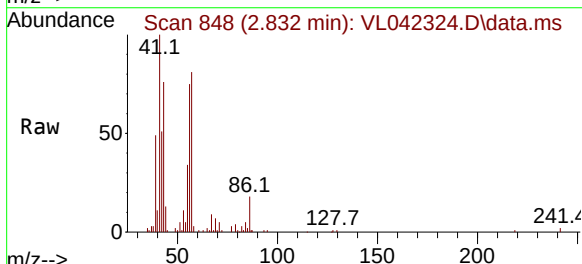
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 IA-B10-1-3242025DL

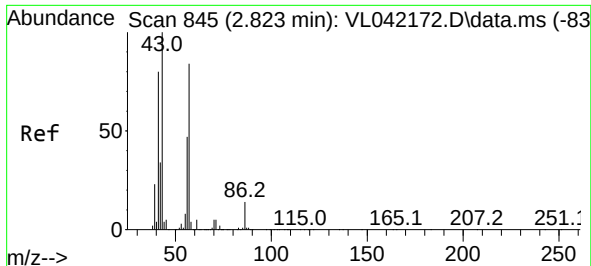
Tgt Ion: 43	Resp: 551
Ion Ratio	Lower Upper
43 100	
86 0.0	5.5 8.3#
42 27.6	8.6 13.0#
44 50.8	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.194 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. -0.000 min
 Lab File: VL042324.D
 Acq: 11 Apr 2025 17:10

Tgt	Ion: 43	Resp:	12443
Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.2	12.2#
61	5.2	7.3	10.9#
70	5.1	7.2	10.8#

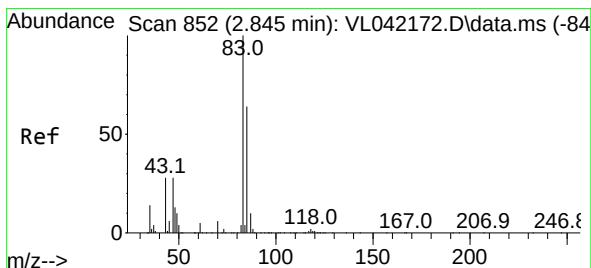
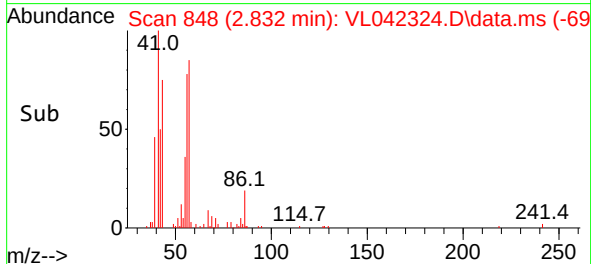
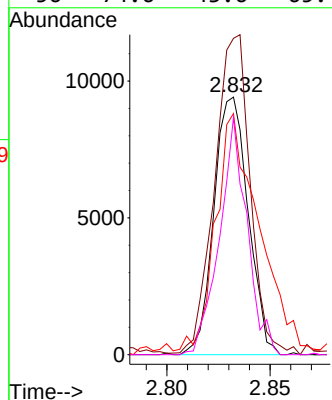
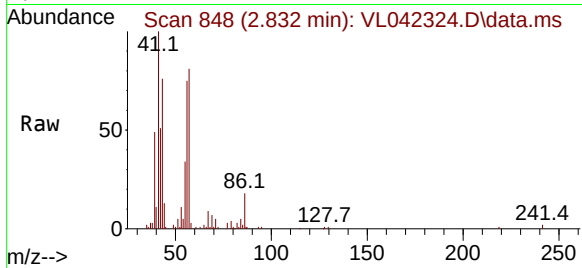




#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

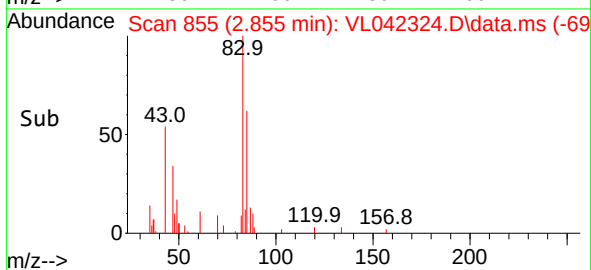
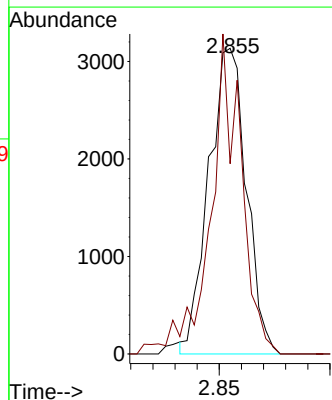
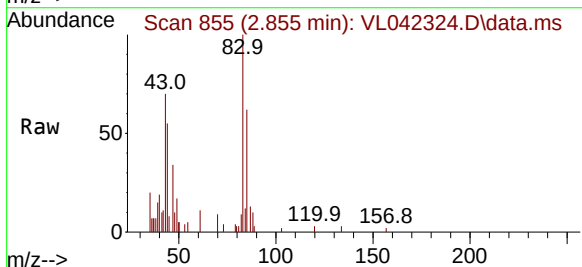
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

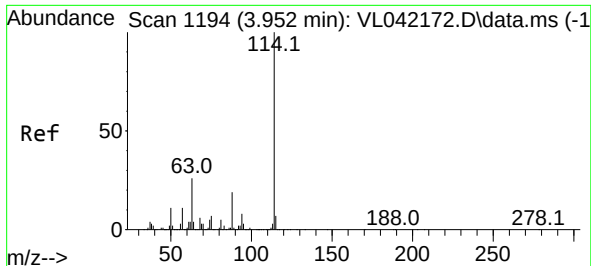
Tgt Ion: 57 Resp: 10875
Ion Ratio Lower Upper
57 100
41 127.0 76.6 114.8#
43 125.5 207.8 311.8#
56 74.6 43.6 65.4#



#29
Chloroform
Concen: 0.102 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 83 Resp: 3694
Ion Ratio Lower Upper
83 100
85 62.2 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-1-3242025DL

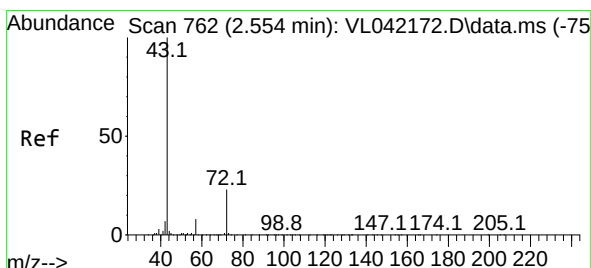
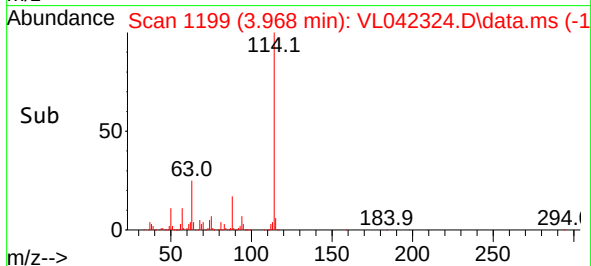
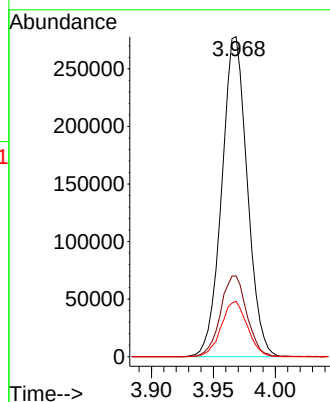
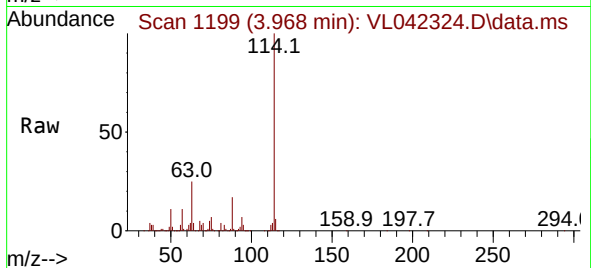
Tgt Ion:114 Resp: 398133

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 0.997 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.009 min

Lab File: VL042324.D

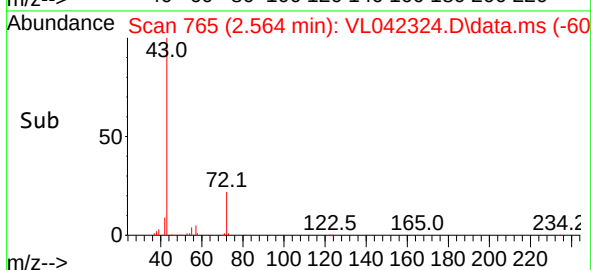
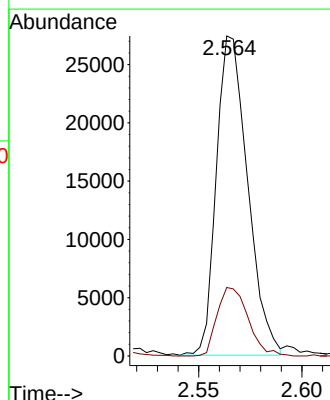
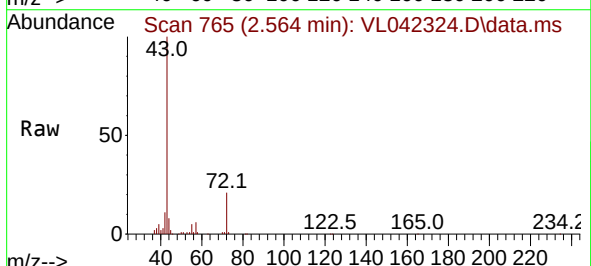
Acq: 11 Apr 2025 17:10

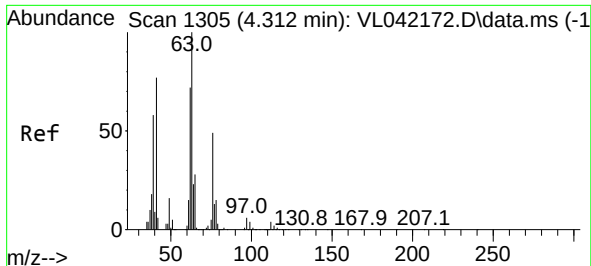
Tgt Ion: 43 Resp: 28789

Ion Ratio Lower Upper

43 100

72 21.4 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.240 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-1-3242025DL

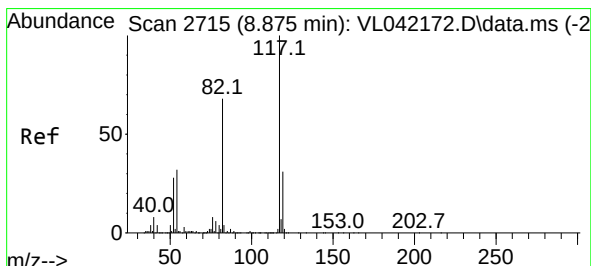
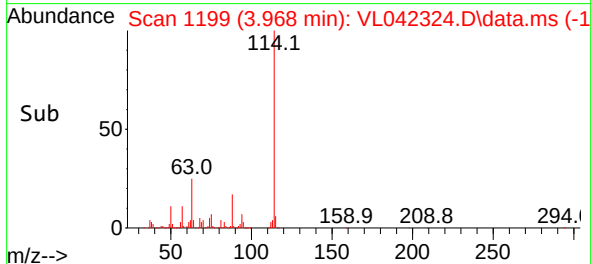
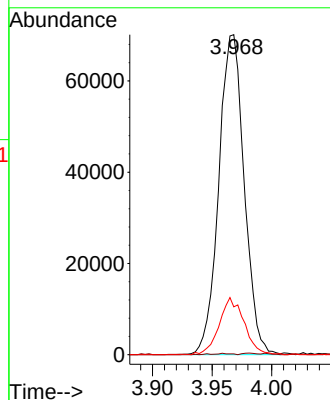
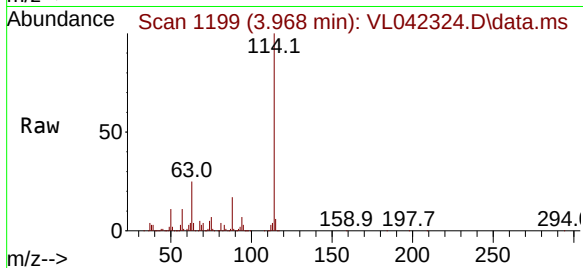
Tgt Ion: 63 Resp: 104076

Ion Ratio Lower Upper

63 100

41 0.5 61.7 92.5#

62 15.0 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.013 min

Lab File: VL042324.D

Acq: 11 Apr 2025 17:10

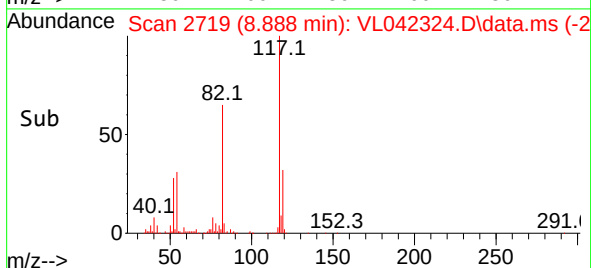
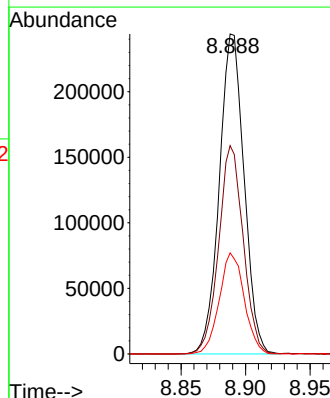
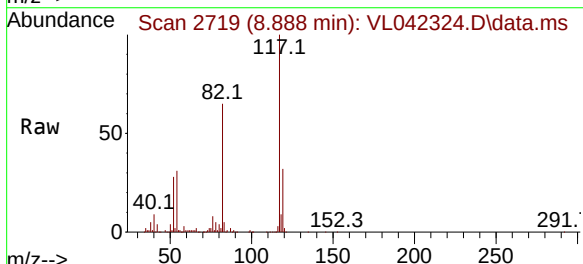
Tgt Ion: 117 Resp: 325777

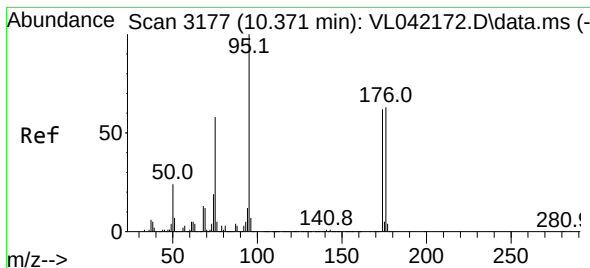
Ion Ratio Lower Upper

117 100

82 64.5 55.8 83.6

119 31.8 25.5 38.3

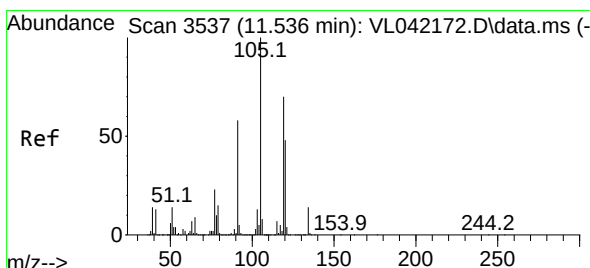
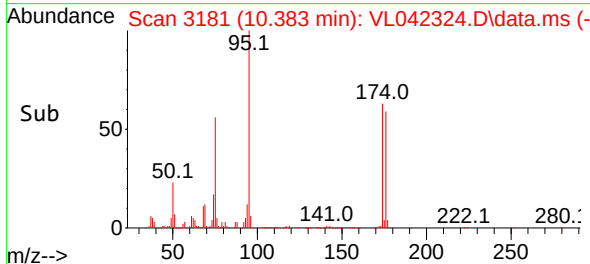
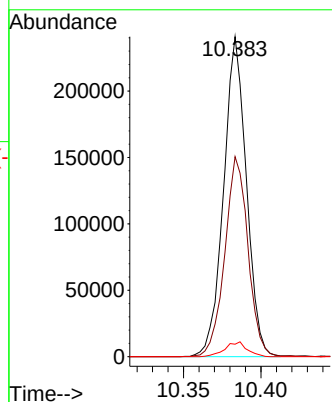
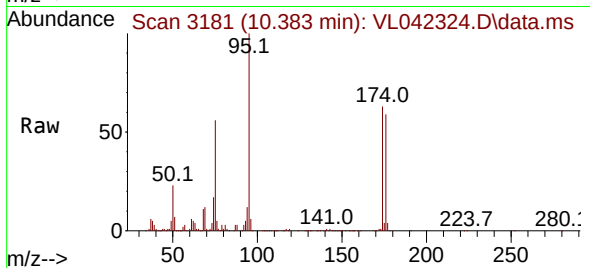




#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-1-3242025DL

Tgt Ion: 95 Resp: 246592
Ion Ratio Lower Upper
95 100
174 63.8 50.6 76.0
175 4.5 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 105 Resp: 2245
Ion Ratio Lower Upper
105 100
120 38.3 38.6 58.0#
91 11.8 46.2 69.2#
77 25.2 18.6 27.8

