

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042123.D
 Acq On : 10 Mar 2025 14:06
 Operator : SY/MD
 Sample : Q1532-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 2

Quant Time: Mar 11 01:24:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

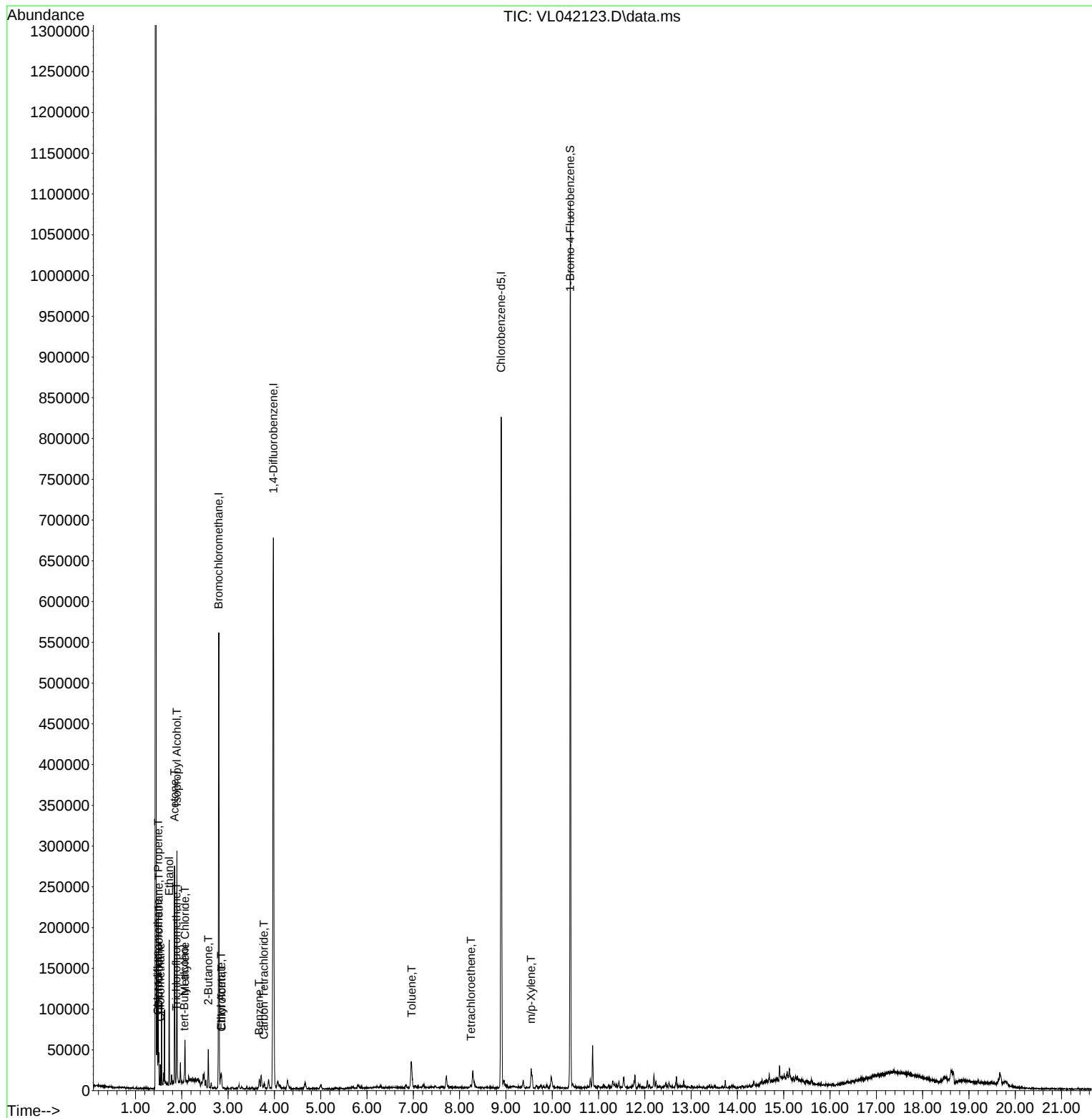
Internal Standards						
1) Bromochloromethane	2.797	49	166689	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	387215	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	330250	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257155	10.121	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	8791	0.507	ppbv	99
3) Chlorodifluoromethane	1.483	51	6495m	0.268	ppbv	
4) Chloromethane	1.538	50	6619	1.033	ppbv	93
9) Propene	1.492	41	17331m	1.756	ppbv	
11) Trichlorofluoromethane	1.884	101	4086	0.235	ppbv	85
13) Ethanol	1.729	45	64435	102.846	ppbv	88
15) Acetone	1.842	43	112970	7.674	ppbv	98
17) tert-Butyl alcohol	2.052	59	2949m	0.160	ppbv	
19) Isopropyl Alcohol	1.894	45	110681	13.090	ppbv #	35
20) Methylene Chloride	2.068	84	6629	1.191	ppbv	95
25) Ethyl Acetate	2.852	43	8747	0.148	ppbv #	84
29) Chloroform	2.861	83	3349	0.104	ppbv #	77
34) 2-Butanone	2.570	43	29478	0.977	ppbv	96
35) Carbon Tetrachloride	3.774	117	2237m	0.084	ppbv	
36) Benzene	3.671	78	5828	0.144	ppbv #	93
52) Tetrachloroethene	8.247	164	599m	0.043	ppbv	
53) Toluene	6.962	91	21918m	0.484	ppbv	
59) m/p-Xylene	9.545	91	15092	0.312	ppbv #	100

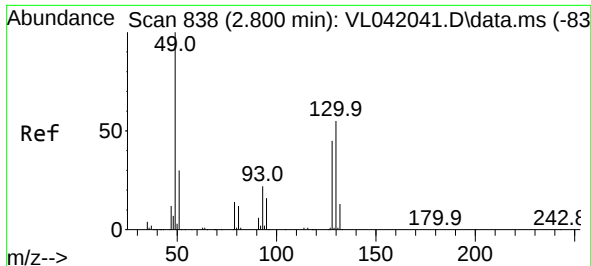
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 26 01:08:36 2025
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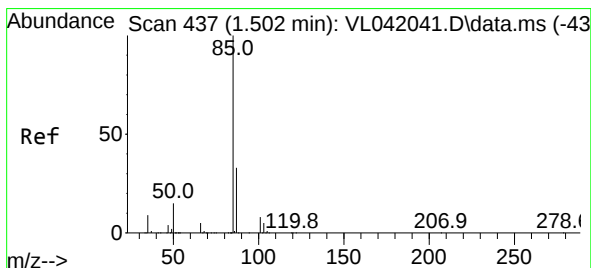
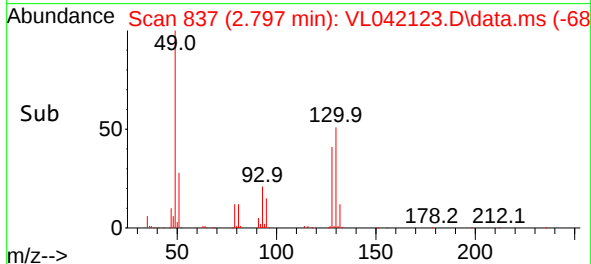
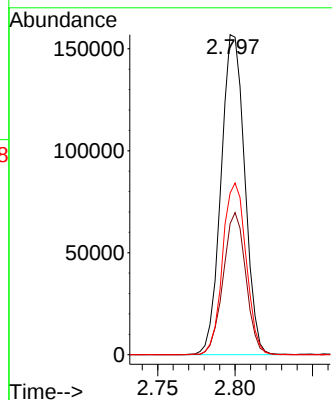
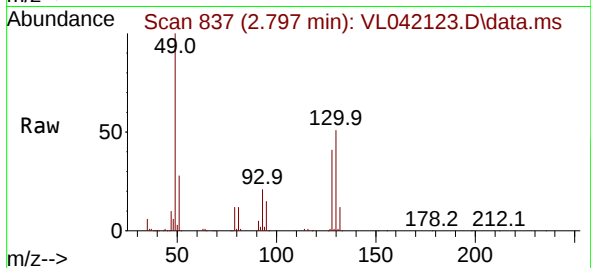




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

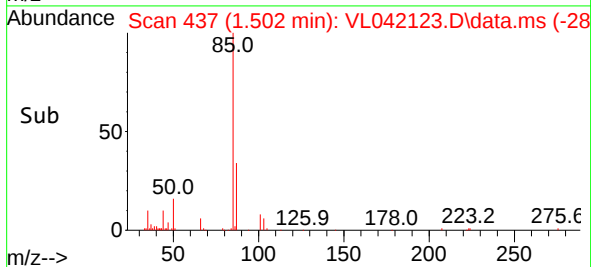
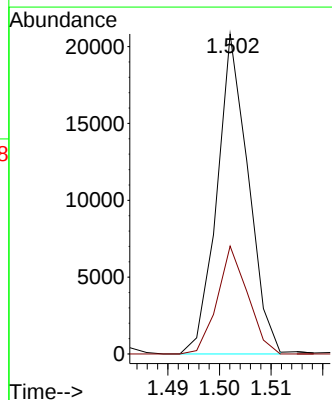
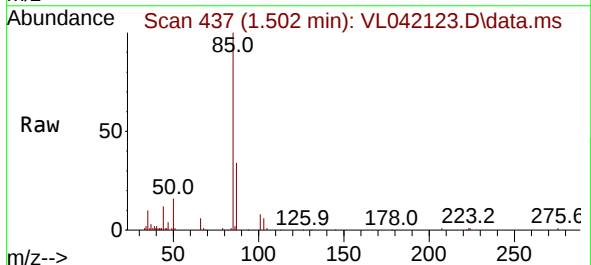
Instrument :
MSVOA_L
ClientSampleId :
2

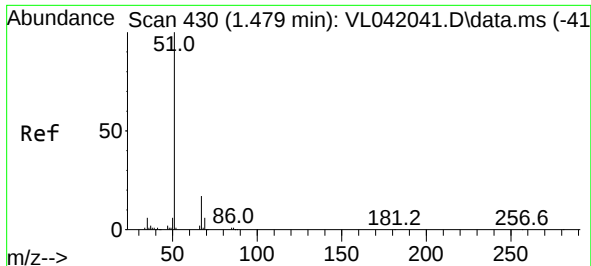
Tgt Ion: 49 Resp: 166689
Ion Ratio Lower Upper
49 100
128 42.6 21.6 64.8
130 53.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.507 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 85 Resp: 8791
Ion Ratio Lower Upper
85 100
87 33.7 26.4 39.6

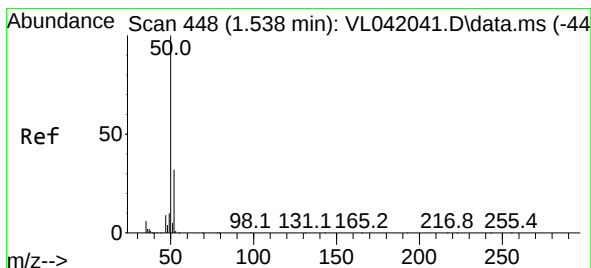
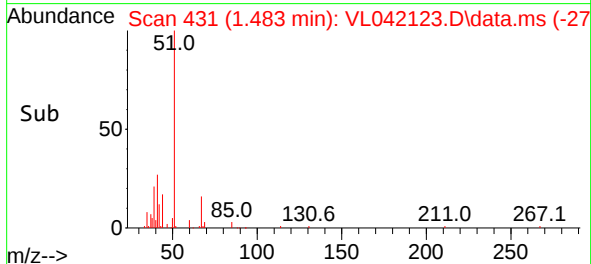
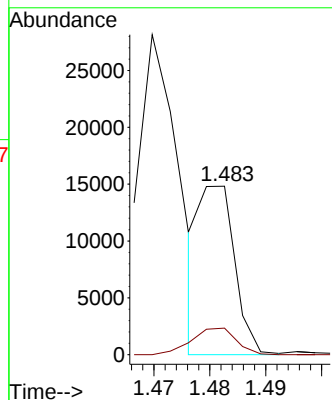
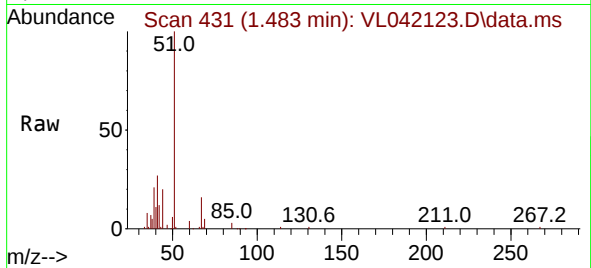




#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

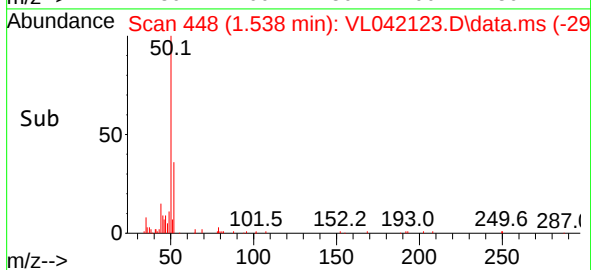
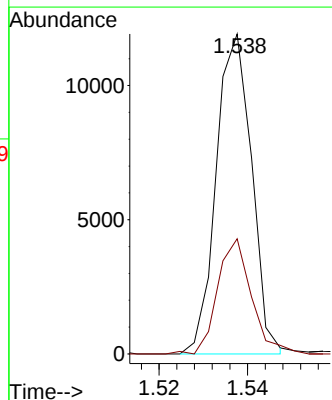
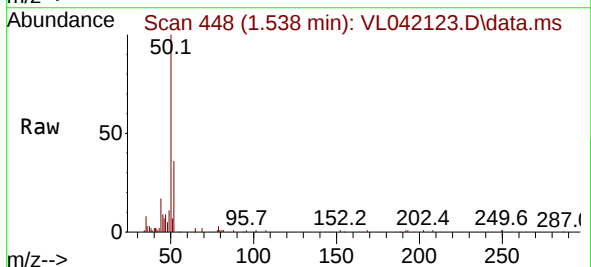
Instrument :
MSVOA_L
ClientSampleId :
2

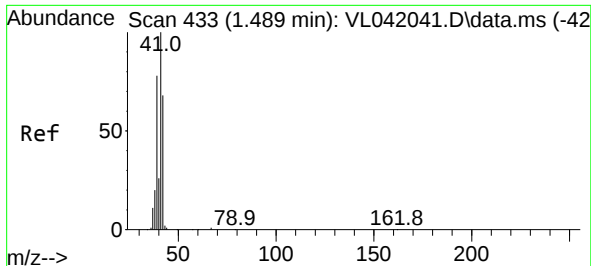
Tgt Ion: 51 Resp: 6495
Ion Ratio Lower Upper
51 100
67 20.0 13.7 20.5



#4
Chloromethane
Concen: 1.033 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 50 Resp: 6619
Ion Ratio Lower Upper
50 100
52 35.4 25.4 38.0





#9

Propene

Concen: 1.756 ppbv m

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

Instrument :

MSVOA_L

ClientSampleId :

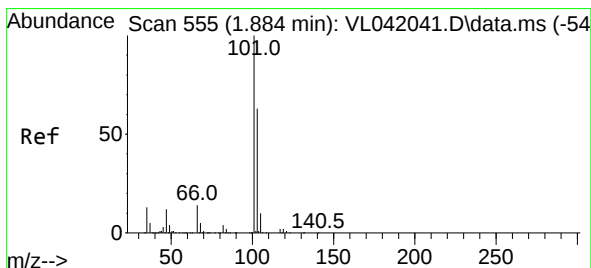
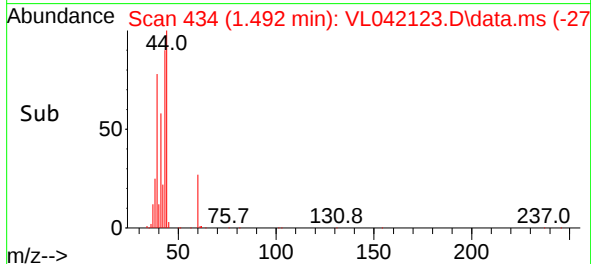
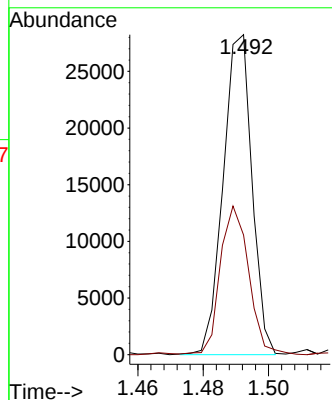
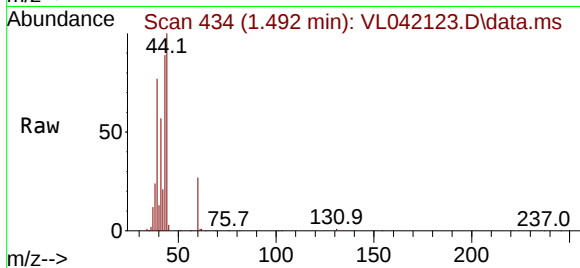
2

Tgt Ion: 41 Resp: 17331

Ion Ratio Lower Upper

41 100

42 0.0 55.8 83.6#



#11

Trichlorofluoromethane

Concen: 0.235 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042123.D

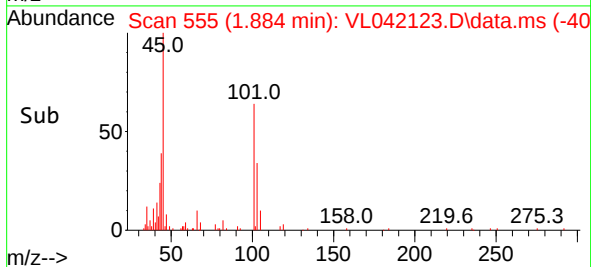
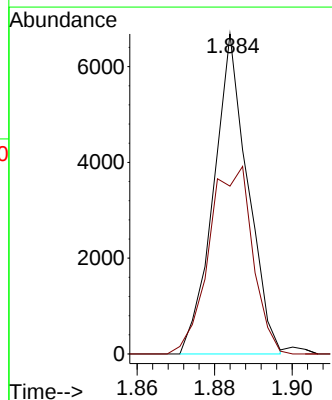
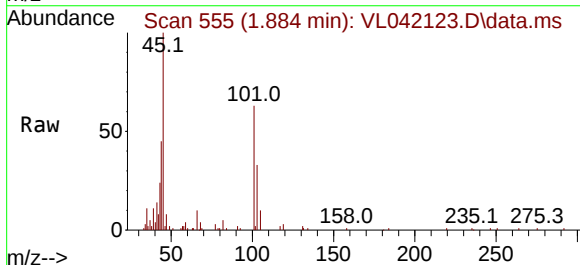
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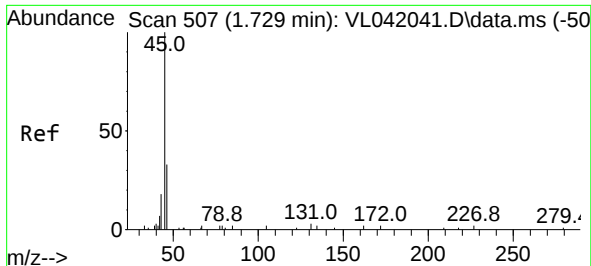
Tgt Ion:101 Resp: 4086

Ion Ratio Lower Upper

101 100

103 51.6 50.6 75.8

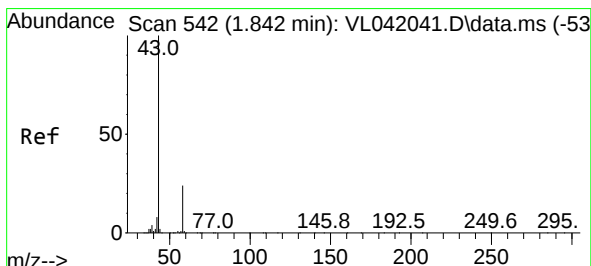
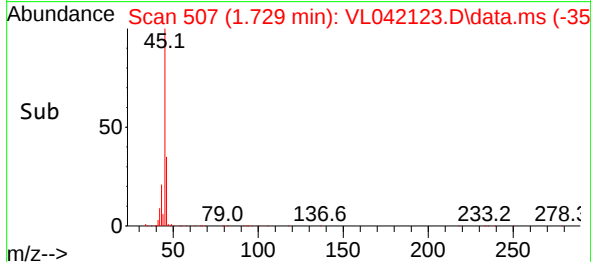
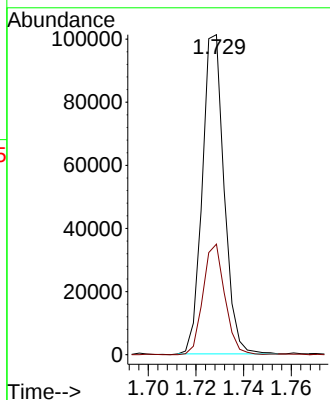
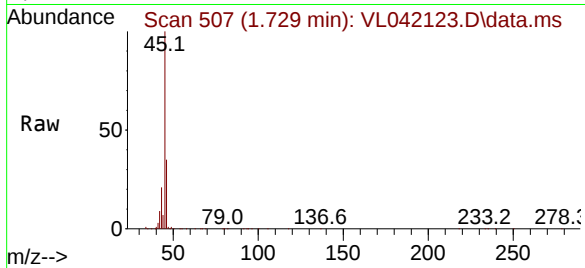




#13
Ethanol
Concen: 102.846 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

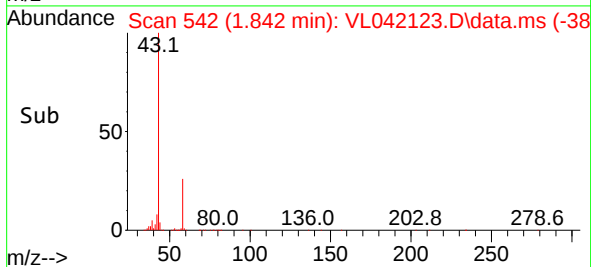
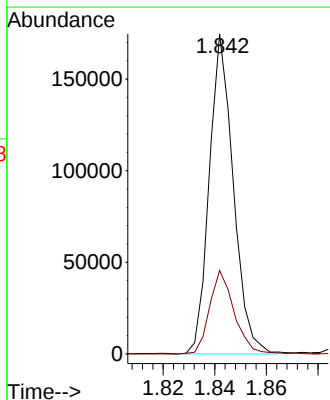
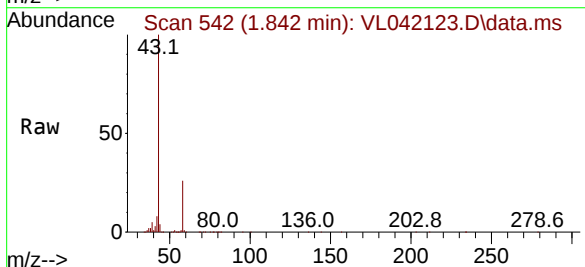
Instrument :
MSVOA_L
ClientSampleId :
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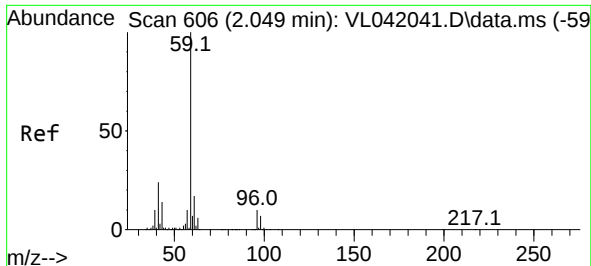
Tgt Ion: 45 Resp: 64435
Ion Ratio Lower Upper
45 100
46 35.2 17.1 68.3



#15
Acetone
Concen: 7.674 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 43 Resp: 112970
Ion Ratio Lower Upper
43 100
58 26.7 20.7 31.1





#17

tert-Butyl alcohol

Concen: 0.160 ppbv m

RT: 2.052 min Scan# 606

Delta R.T. 0.003 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

Instrument :

MSVOA_1

ClientSampleId :

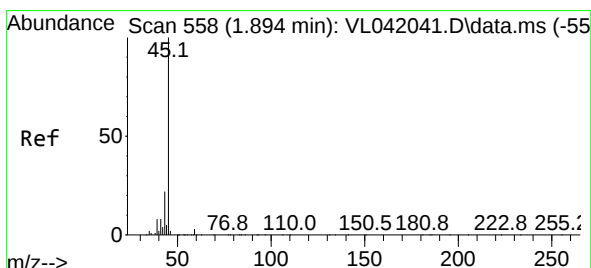
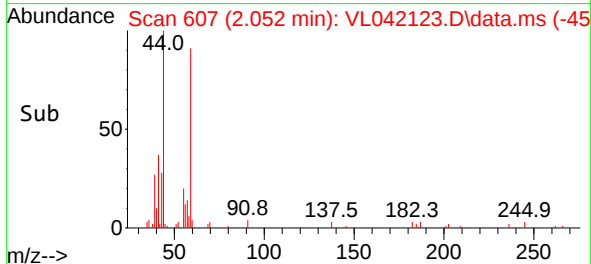
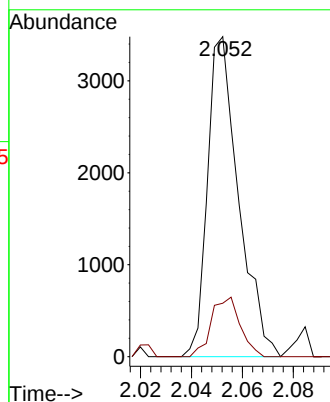
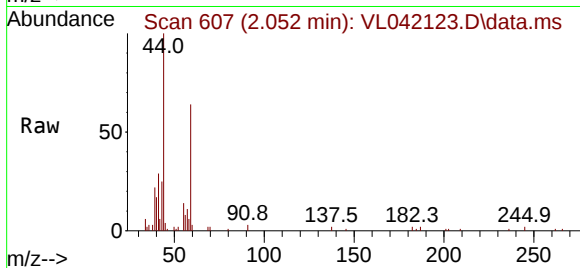
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Tgt Ion: 59 Resp: 2949

Ion Ratio Lower Upper

59 100

57 16.0 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 13.090 ppbv

RT: 1.894 min Scan# 558

Delta R.T. -0.000 min

Lab File: VL042123.D

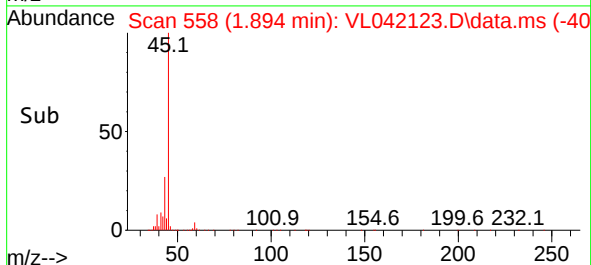
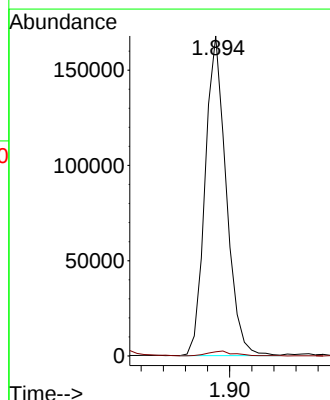
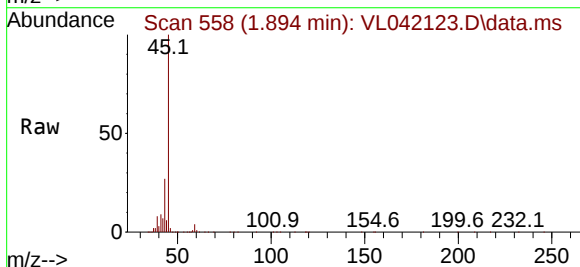
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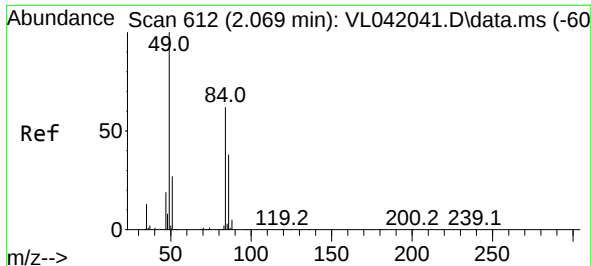
Tgt Ion: 45 Resp: 110681

Ion Ratio Lower Upper

45 100

58 1.9 35.3 52.9#

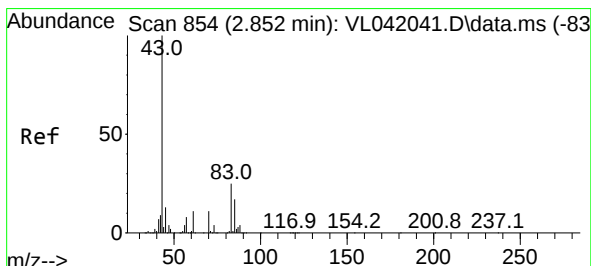
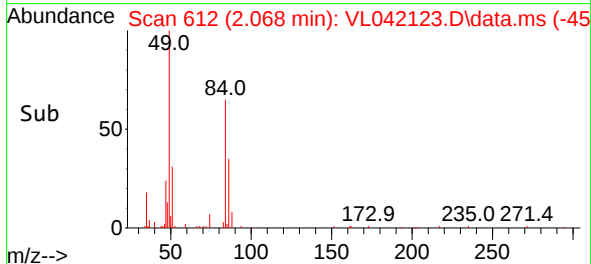
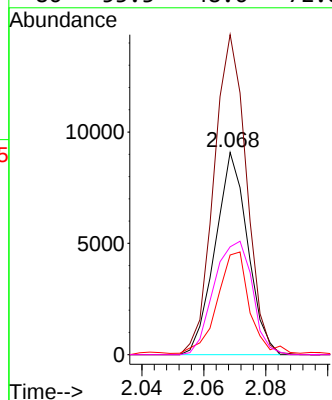
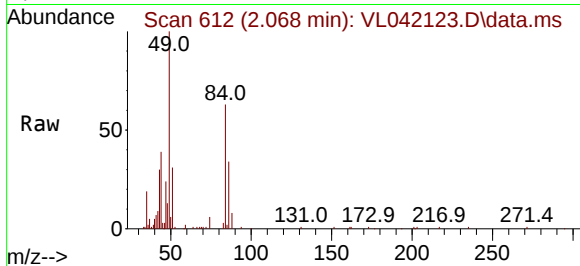




#20
Methylene Chloride
Concen: 1.191 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

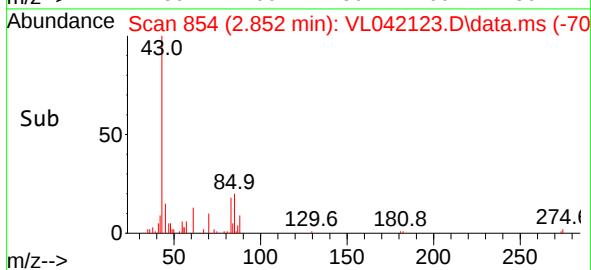
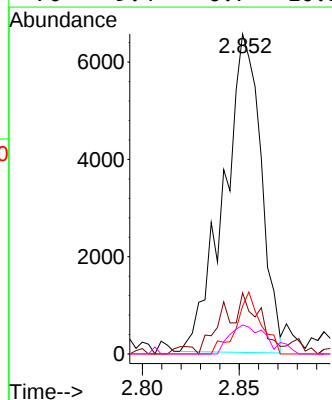
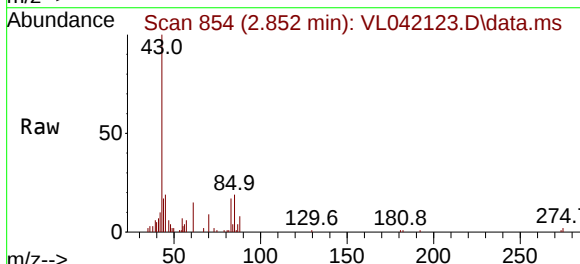
Instrument :
MSVOA_L
ClientSampleId :
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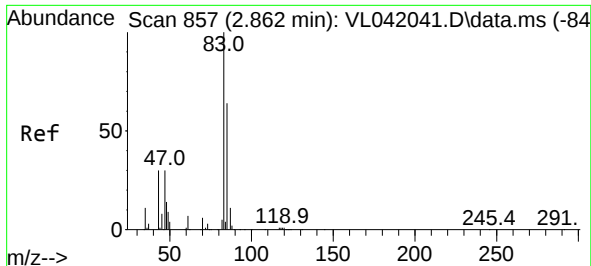
Tgt Ion: 84 Resp: 6629
Ion Ratio Lower Upper
84 100
49 157.3 130.0 195.0
51 48.6 37.4 56.0
86 53.3 48.6 72.8



#25
Ethyl Acetate
Concen: 0.148 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 43 Resp: 8747
Ion Ratio Lower Upper
43 100
45 22.0 8.1 12.1#
61 12.9 7.2 10.8#
70 9.4 6.7 10.1





#29

Chloroform

Concen: 0.104 ppbv

RT: 2.861 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

Instrument :

MSVOA_L

ClientSampleId :

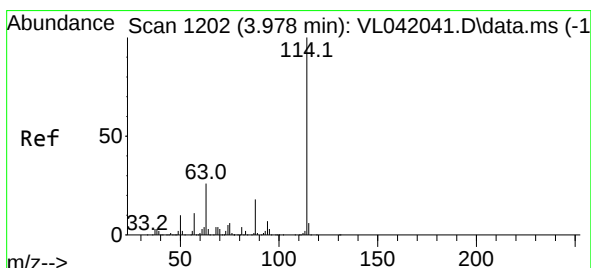
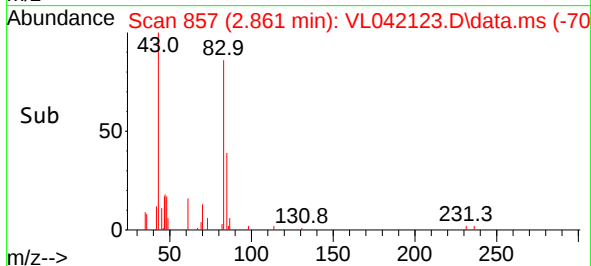
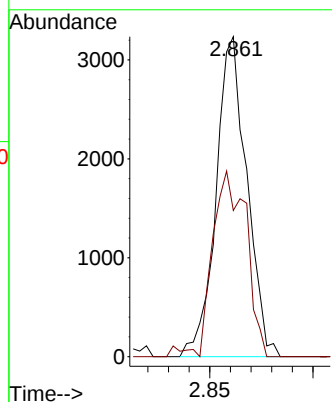
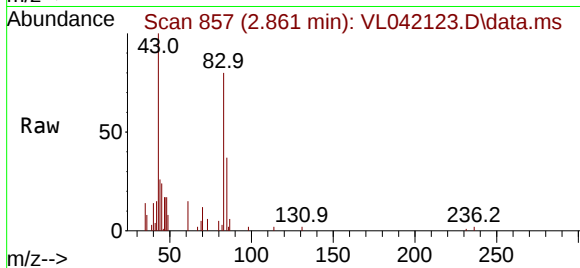
2

Tgt Ion: 83 Resp: 3349

Ion Ratio Lower Upper

83 100

85 45.7 51.2 76.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. -0.000 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

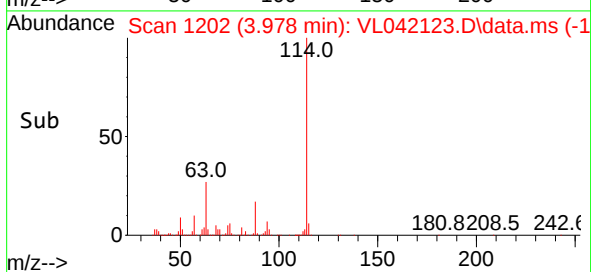
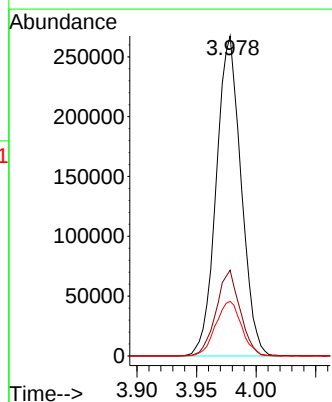
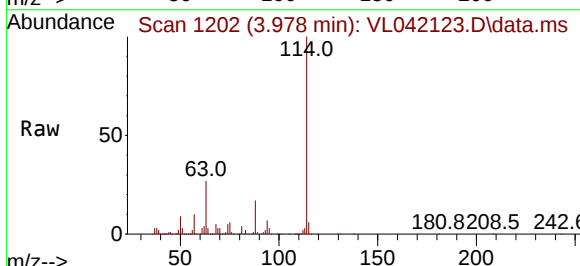
Tgt Ion: 114 Resp: 387215

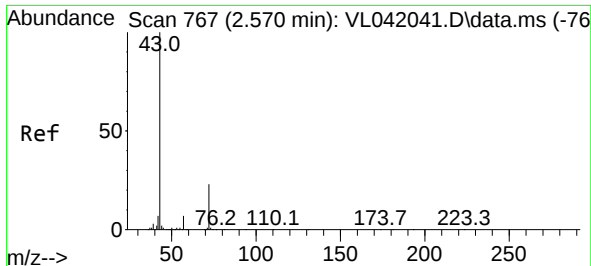
Ion Ratio Lower Upper

114 100

63 25.9 20.1 30.1

88 17.8 14.3 21.5

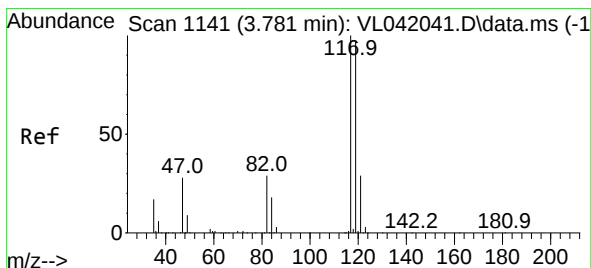
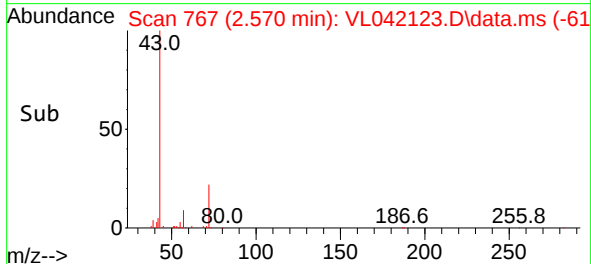
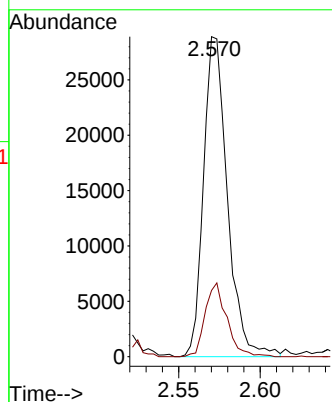
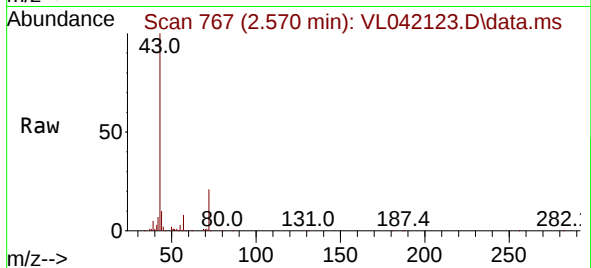




#34
2-Butanone
Concen: 0.977 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

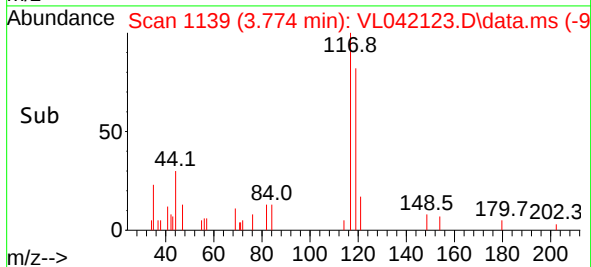
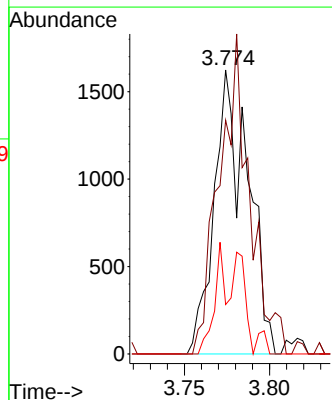
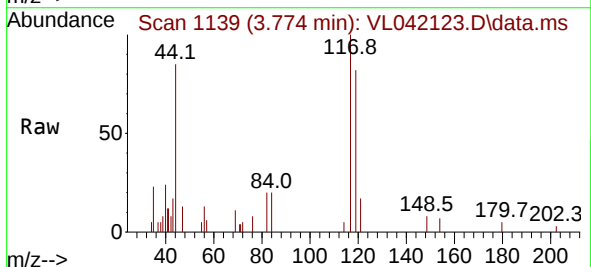
Instrument :
MSVOA_L
ClientSampleId :
2

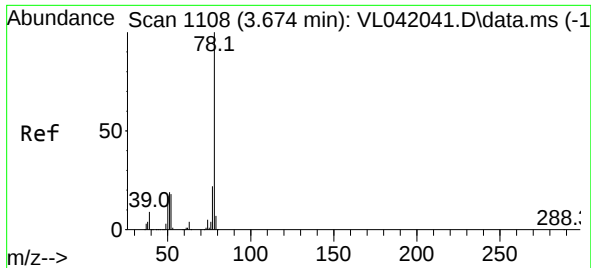
Tgt Ion: 43 Resp: 29478
Ion Ratio Lower Upper
43 100
72 21.0 18.5 27.7



#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. -0.007 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 117 Resp: 2237
Ion Ratio Lower Upper
117 100
119 82.3 77.8 116.8
121 17.4 23.4 35.0#

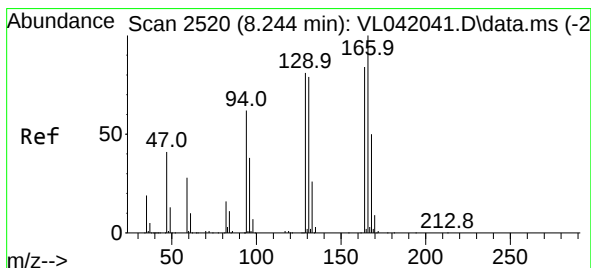
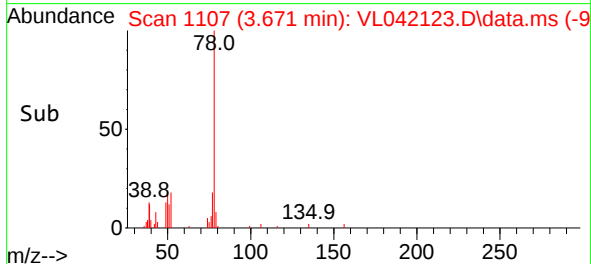
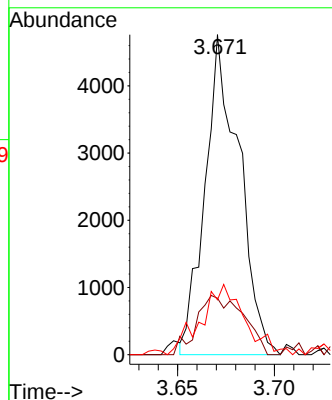
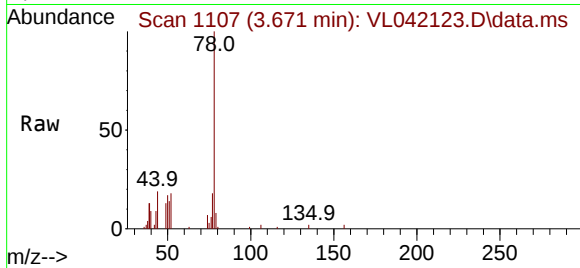




#36
Benzene
Concen: 0.144 ppbv
RT: 3.671 min Scan# 1108
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

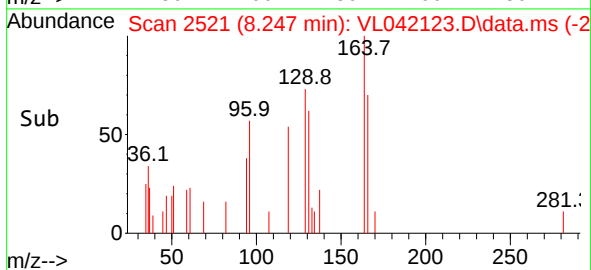
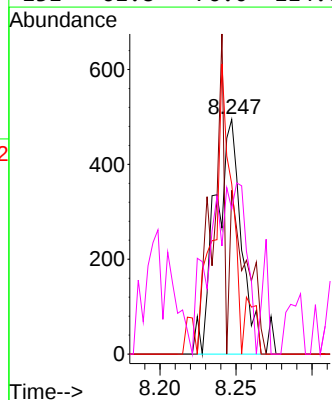
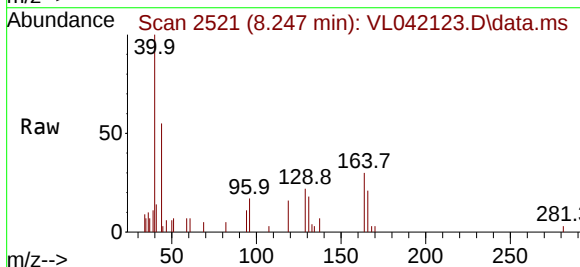
Instrument :
MSVOA_L
ClientSampleId :
2

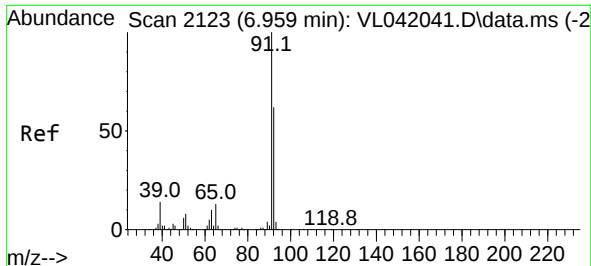
Tgt Ion: 78 Resp: 5828
Ion Ratio Lower Upper
78 100
77 17.7 17.7 26.5#
50 15.5 13.9 20.9



#52
Tetrachloroethene
Concen: 0.043 ppbv m
RT: 8.247 min Scan# 2521
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 164 Resp: 599
Ion Ratio Lower Upper
164 100
166 69.7 95.7 143.5#
129 72.5 77.1 115.7#
131 61.8 76.0 114.0#

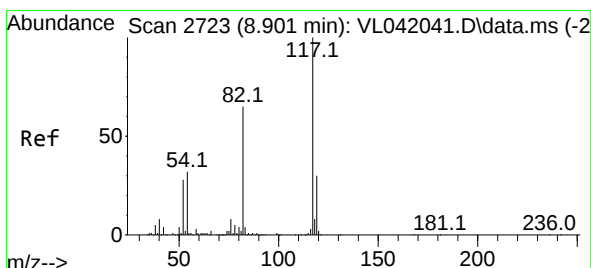
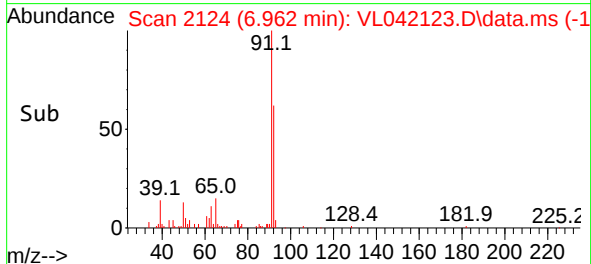
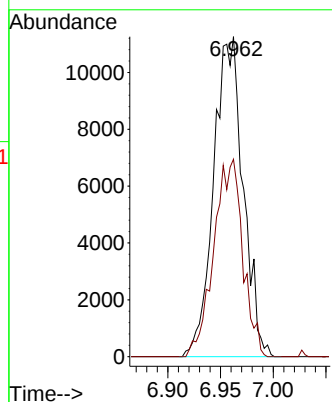
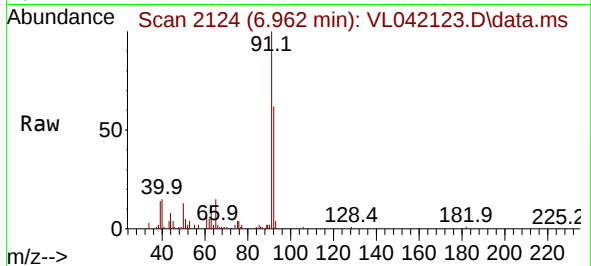




#53
Toluene
Concen: 0.484 ppbv m
RT: 6.962 min Scan# 2123
Delta R.T. 0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

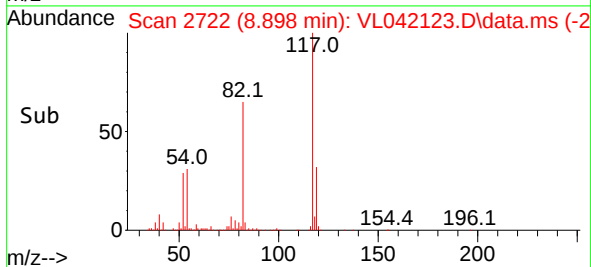
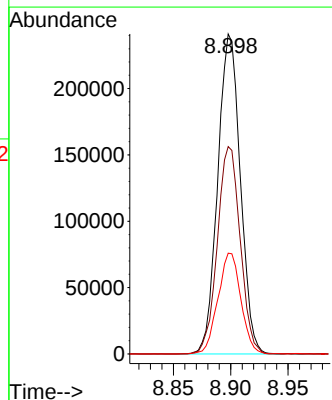
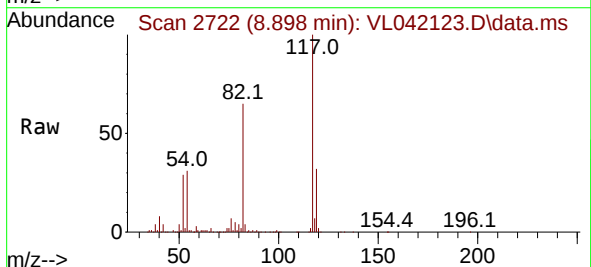
Instrument :
MSVOA_L
ClientSampleId :
2

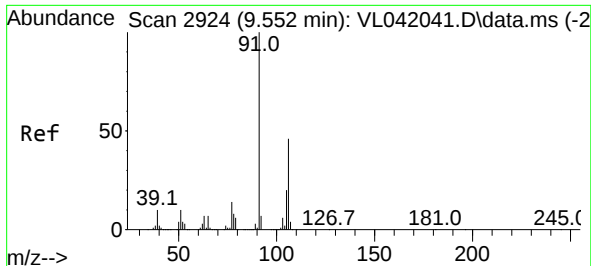
Tgt Ion: 91 Resp: 21918
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042123.D
Acq: 10 Mar 2025 14:06

Tgt Ion: 117 Resp: 330250
Ion Ratio Lower Upper
117 100
82 65.5 55.0 82.6
119 32.1 25.9 38.9





#59

m/p-Xylene

Concen: 0.312 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

Instrument :

MSVOA_L

ClientSampleId :

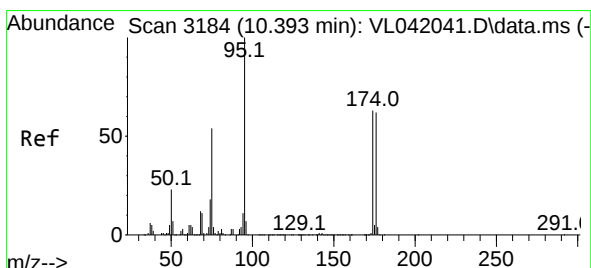
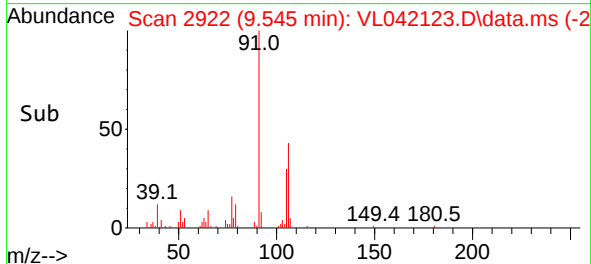
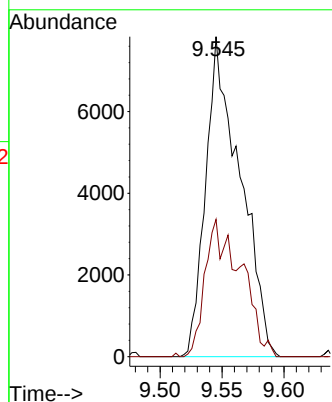
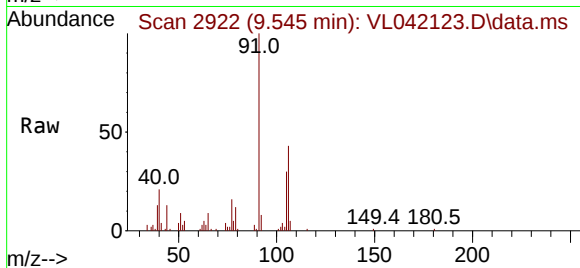
2

Tgt Ion: 91 Resp: 15092

Ion Ratio Lower Upper

91 100

106 45.1 0.0 0.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.121 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. -0.003 min

Lab File: VL042123.D

Acq: 10 Mar 2025 14:06

Tgt Ion: 95 Resp: 257155

Ion Ratio Lower Upper

95 100

174 64.4 51.8 77.6

175 4.6 3.9 5.9

