

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042274.D
 Acq On : 08 Apr 2025 22:11
 Operator : SY/MD
 Sample : Q1728-11 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

Quant Time: Apr 09 02:00:57 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)

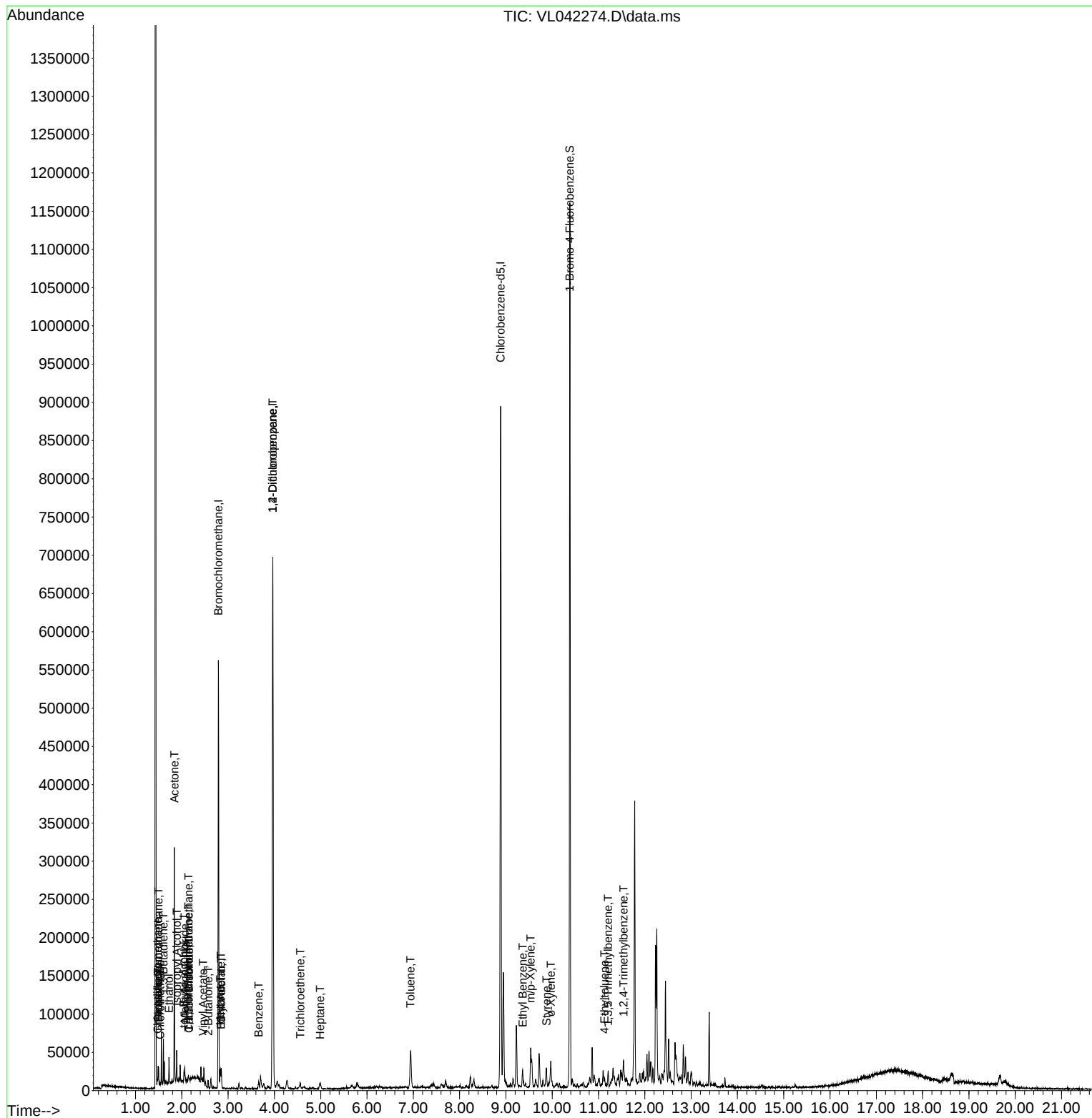
Internal Standards						
1) Bromochloromethane	2.790	49	156372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398763	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	359554	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	281110	9.520	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5004	0.217	ppbv	89
3) Chlorodifluoromethane	1.479	51	5052	0.214	ppbv #	92
4) Chloromethane	1.531	50	480	0.051	ppbv	90
9) Propene	1.489	41	1785	0.165	ppbv	94
10) Heptane	4.988	43	1658	0.058	ppbv #	28
11) Trichlorofluoromethane	2.146	101	800	0.036	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	800	0.043	ppbv	92
13) Ethanol	1.722	45	11416	11.170	ppbv	83
15) Acetone	1.839	43	128185	5.861	ppbv	95
16) 1,3-Butadiene	1.602	39	6472	0.606	ppbv #	22
17) tert-Butyl alcohol	2.046	59	3888	0.143	ppbv	99
19) Isopropyl Alcohol	1.890	45	17157	1.390	ppbv #	1
20) Methylene Chloride	2.065	84	2710	0.333	ppbv #	93
23) Vinyl Acetate	2.457	43	1492	0.158	ppbv #	76
25) Ethyl Acetate	2.845	43	1744	0.031	ppbv #	85
26) Hexane	2.829	57	4605	0.210	ppbv #	40
27) Carbon Disulfide	2.156	76	899	0.038	ppbv #	1
29) Chloroform	2.852	83	9004	0.281	ppbv	97
34) 2-Butanone	2.570	43	5858	0.203	ppbv	98
36) Benzene	3.658	78	5637	0.143	ppbv #	90
38) Trichloroethene	4.557	130	854	0.052	ppbv #	94
39) 1,2-Dichloropropane	3.965	63	102394	7.112	ppbv #	22
53) Toluene	6.940	91	34973	0.746	ppbv	99
58) Ethyl Benzene	9.364	91	10002	0.157	ppbv	97
59) m/p-Xylene	9.535	91	32175	0.631	ppbv	100
60) o-Xylene	9.969	91	13256	0.259	ppbv	98
61) Styrene	9.879	104	3116	0.123	ppbv #	9
72) 4-Ethyltoluene	11.128	105	3026	0.048	ppbv #	58
73) 1,3,5-Trimethylbenzene	11.209	105	3685	0.066	ppbv	87
74) 1,2,4-Trimethylbenzene	11.542	105	9995	0.156	ppbv #	61

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

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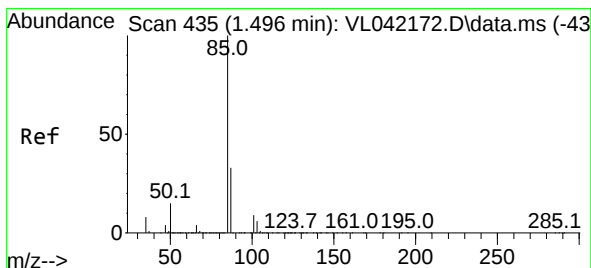
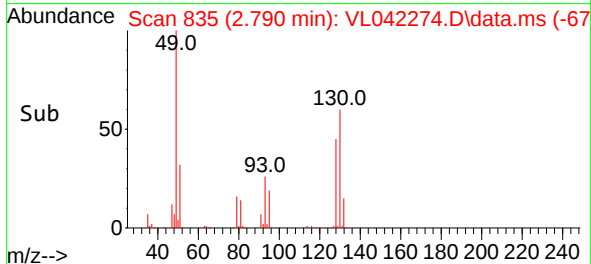
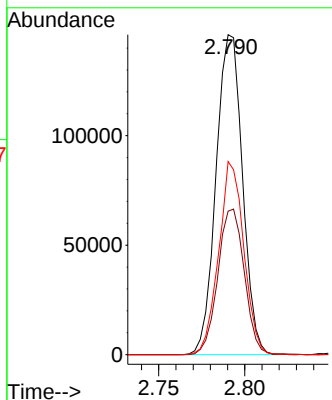
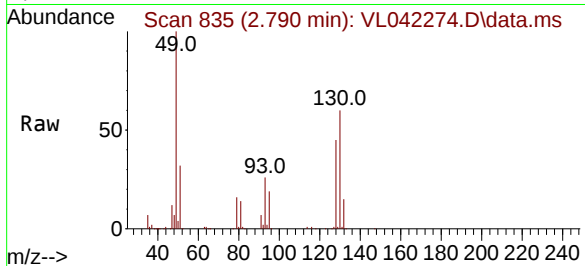




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

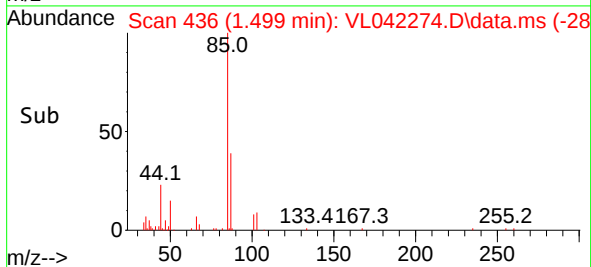
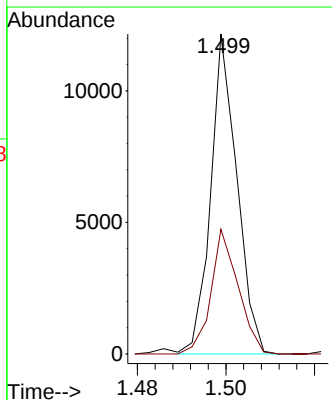
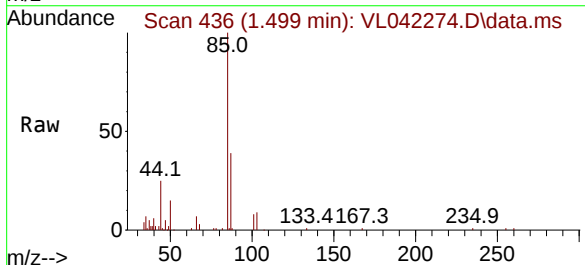
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

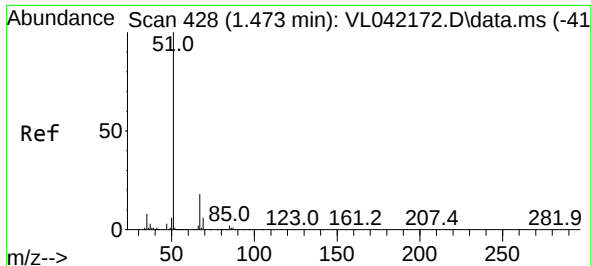
Tgt Ion: 49 Resp: 156372
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.9 68.5
 130 57.4 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.217 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion: 85 Resp: 5004
 Ion Ratio Lower Upper
 85 100
 87 38.9 26.1 39.1

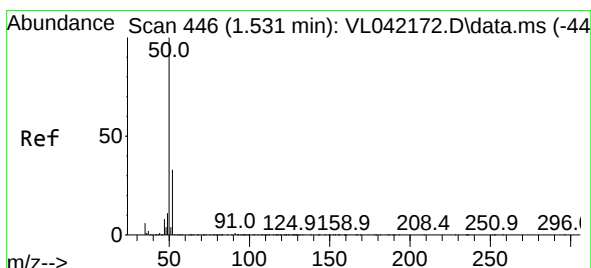
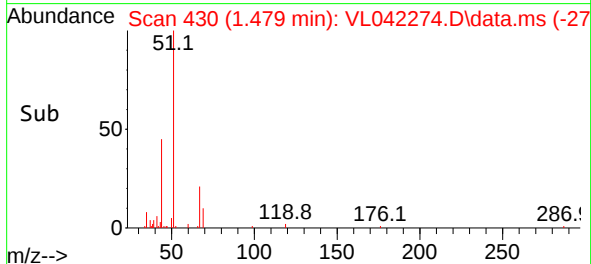
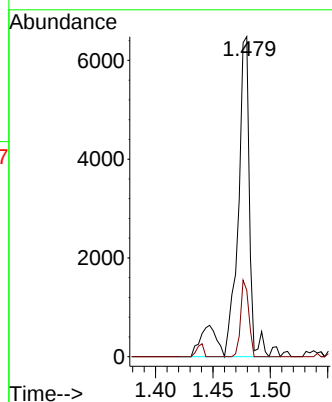
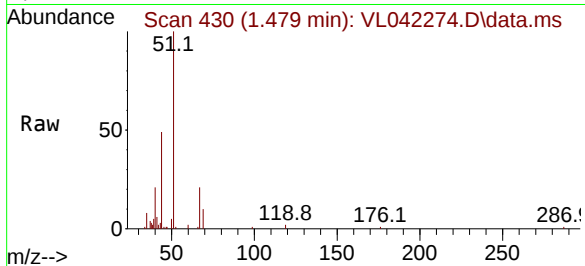




#3
Chlorodifluoromethane
Concen: 0.214 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

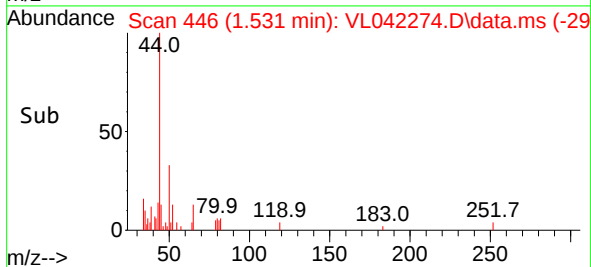
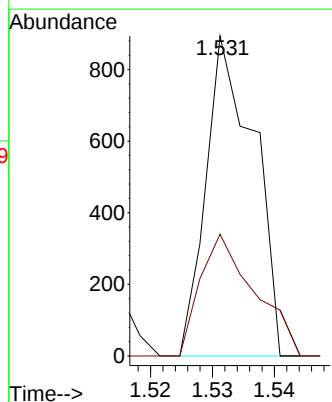
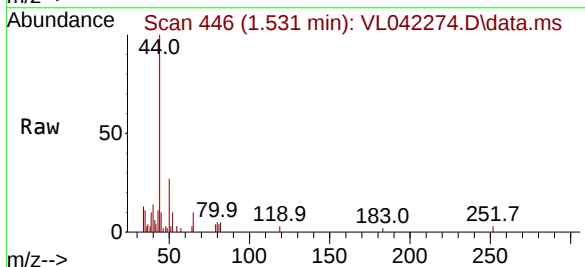
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

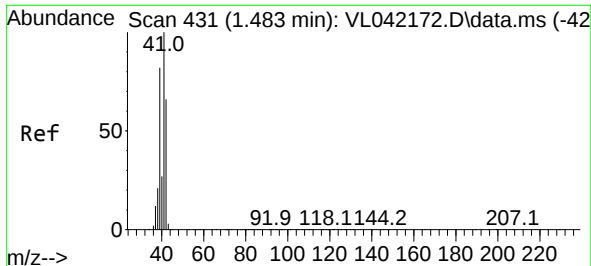
Tgt Ion: 51 Resp: 5052
Ion Ratio Lower Upper
51 100
67 15.0 15.0 22.6#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 50 Resp: 480
Ion Ratio Lower Upper
50 100
52 38.0 26.1 39.1

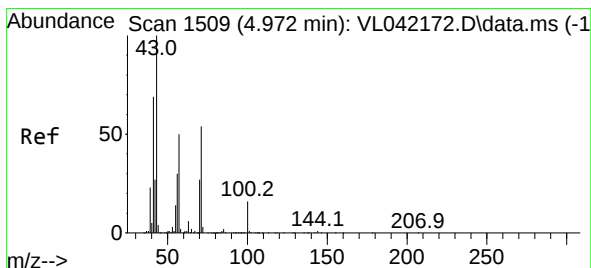
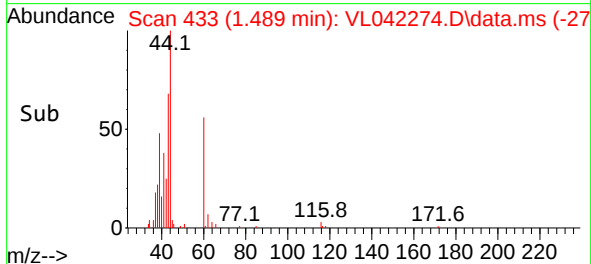
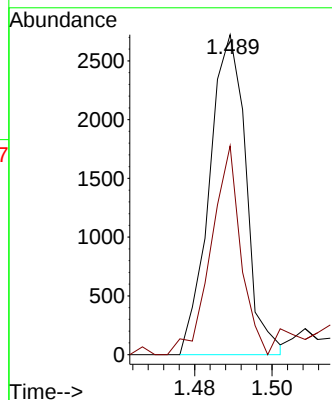
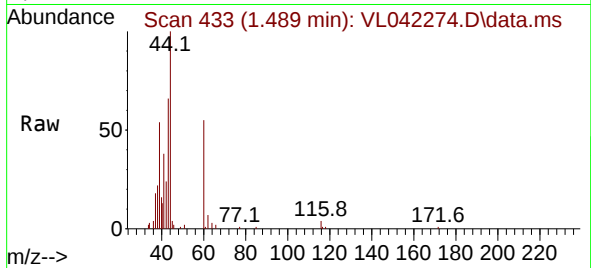




#9
Propene
Concen: 0.165 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

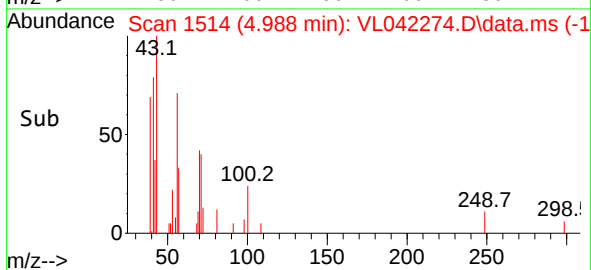
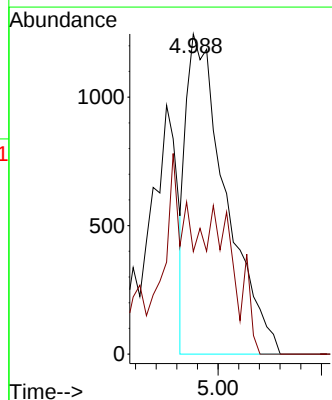
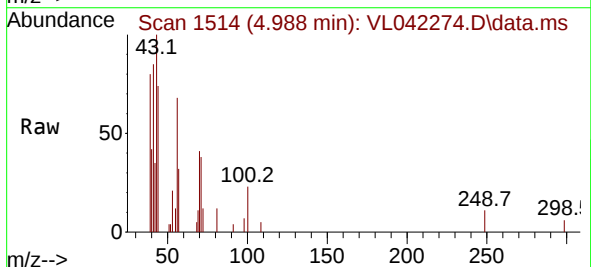
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

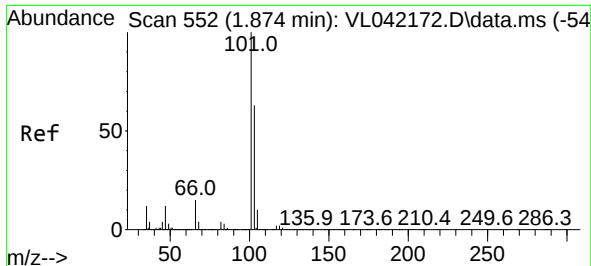
Tgt Ion: 41 Resp: 1785
Ion Ratio Lower Upper
41 100
42 64.8 55.4 83.2



#10
Heptane
Concen: 0.058 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.016 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 43 Resp: 1658
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#

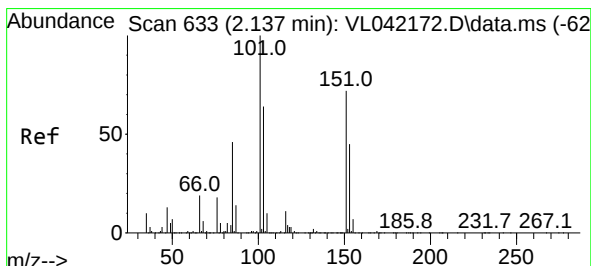
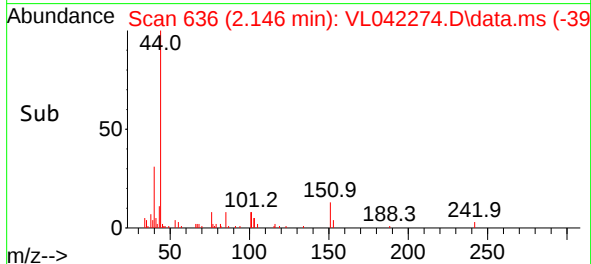
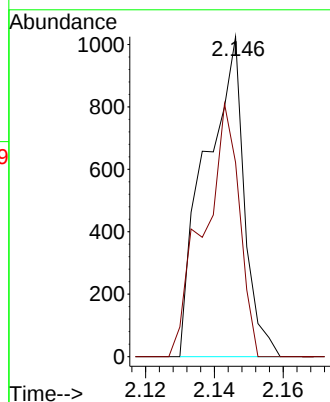
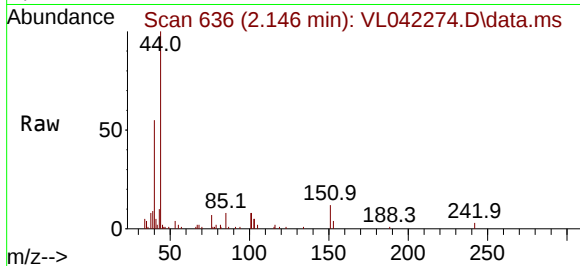




#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 2.146 min Scan# 61
 Delta R.T. 0.272 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

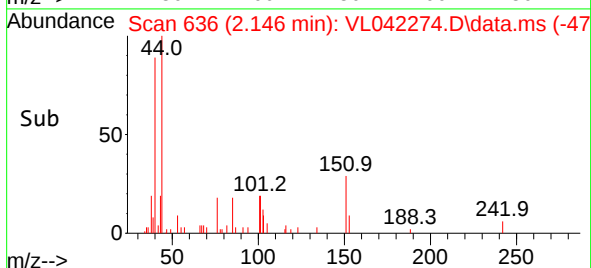
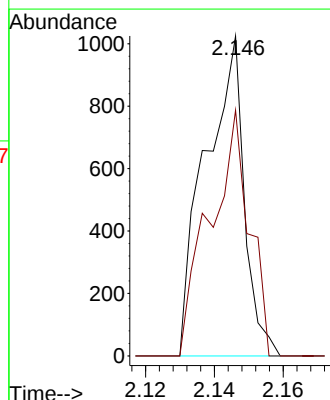
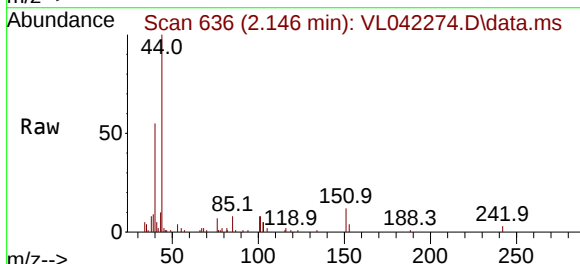
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

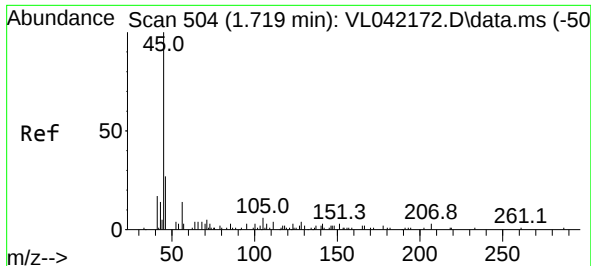
Tgt Ion:101 Resp: 800
 Ion Ratio Lower Upper
 101 100
 103 60.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion:101 Resp: 800
 Ion Ratio Lower Upper
 101 100
 151 78.0 57.1 85.7

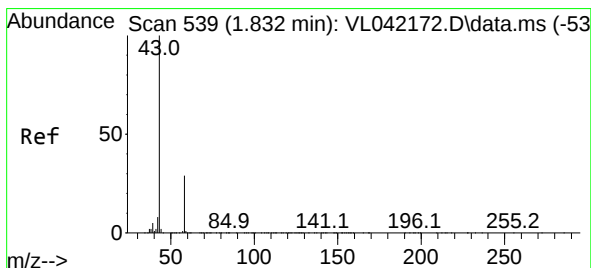
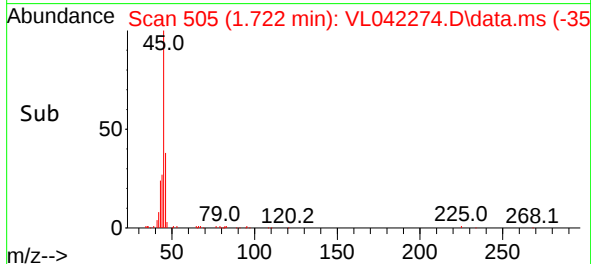
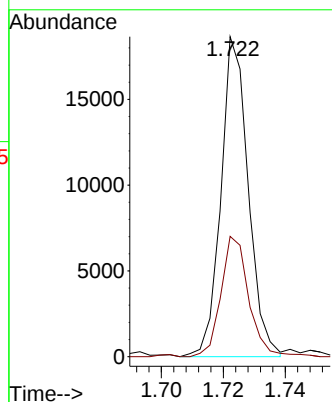
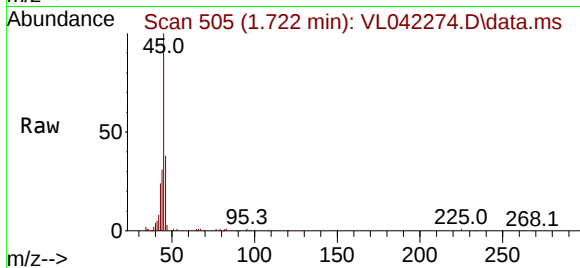




#13
Ethanol
Concen: 11.170 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

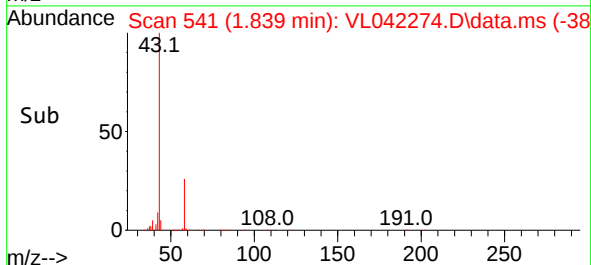
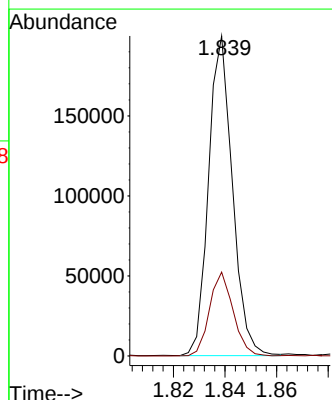
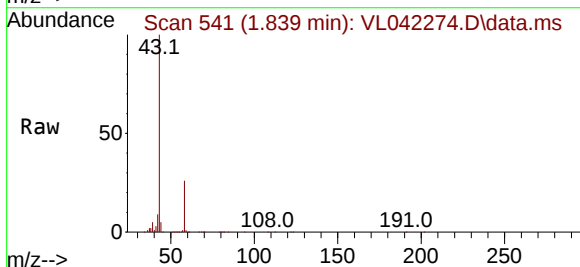
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-4-04012025

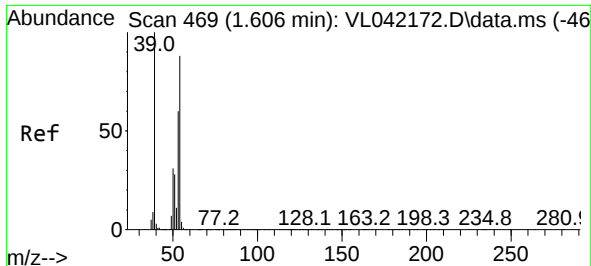
Tgt Ion: 45 Resp: 11416
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8



#15
Acetone
Concen: 5.861 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 43 Resp: 128185
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8





#16

1,3-Butadiene

Concen: 0.606 ppbv

RT: 1.602 min Scan# 4

Delta R.T. -0.003 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

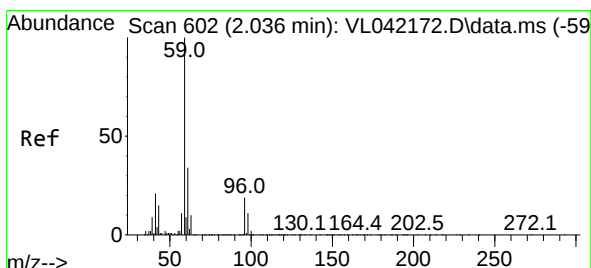
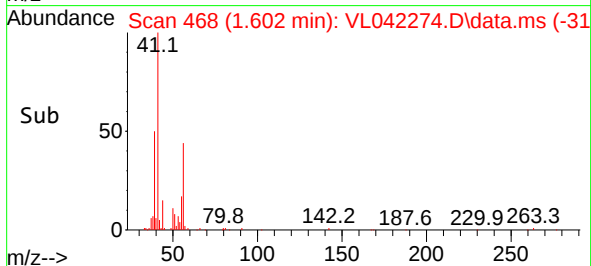
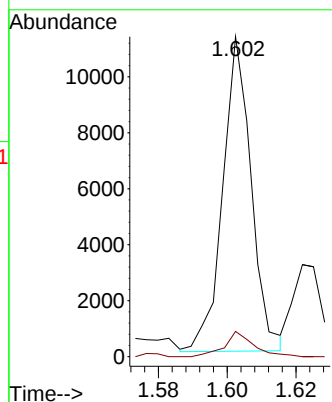
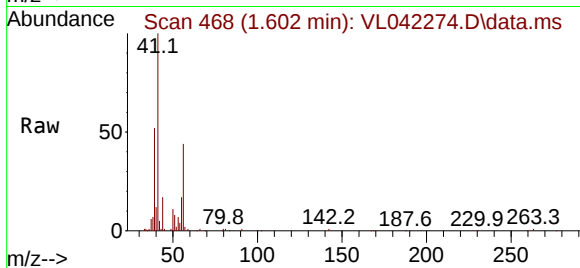
SSSG-B1-4-04012025

Tgt Ion: 39 Resp: 6472

Ion Ratio Lower Upper

39 100

54 9.0 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.143 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.010 min

Lab File: VL042274.D

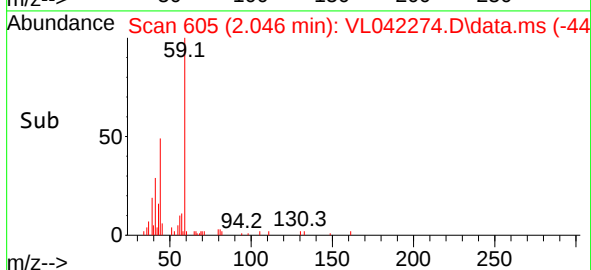
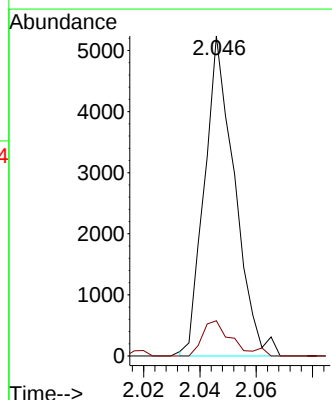
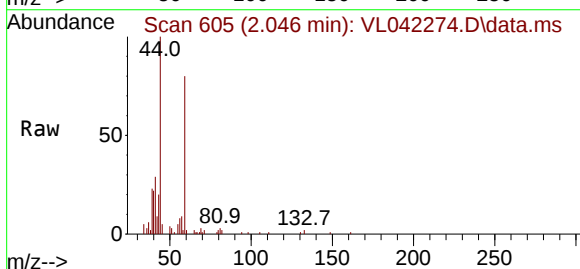
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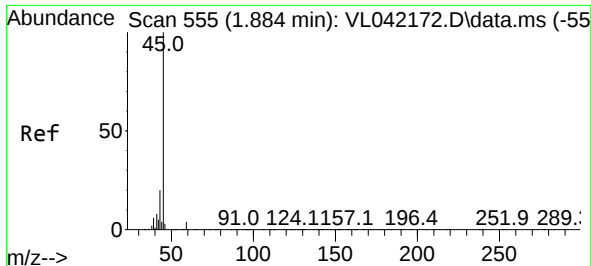
Tgt Ion: 59 Resp: 3888

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3





#19

Isopropyl Alcohol

Concen: 1.390 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

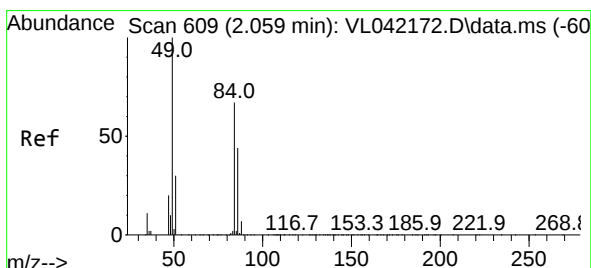
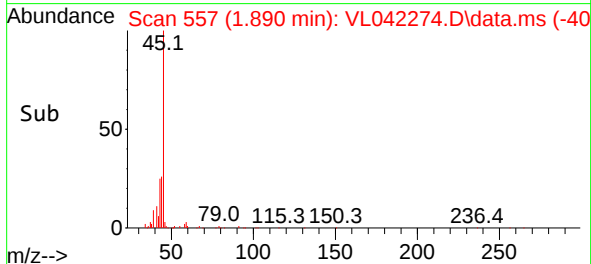
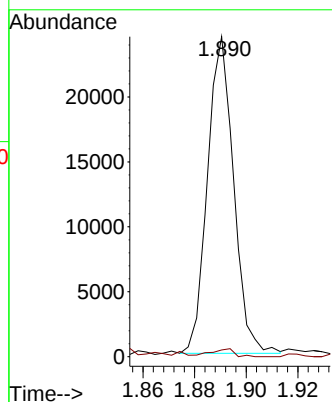
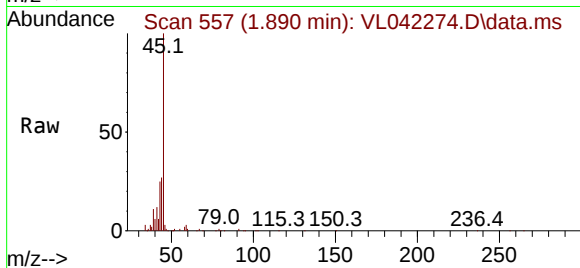
SSSG-B1-4-04012025

Tgt Ion: 45 Resp: 17157

Ion Ratio Lower Upper

45 100

58 198.0 36.9 55.3#



#20

Methylene Chloride

Concen: 0.333 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Tgt Ion: 84 Resp: 2710

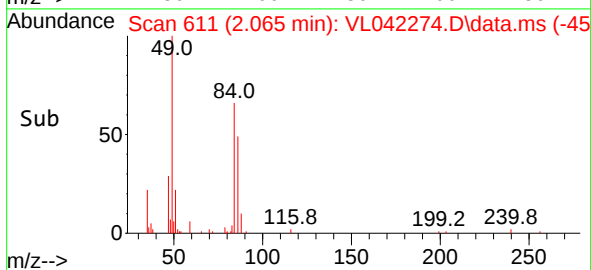
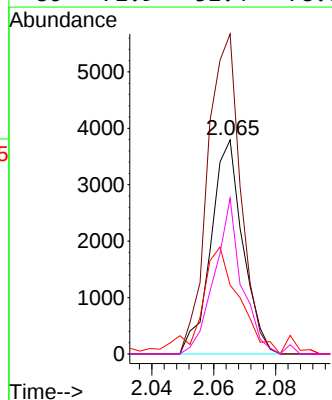
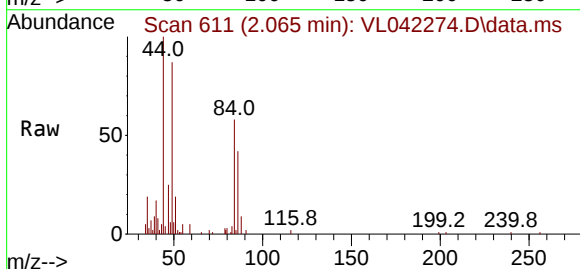
Ion Ratio Lower Upper

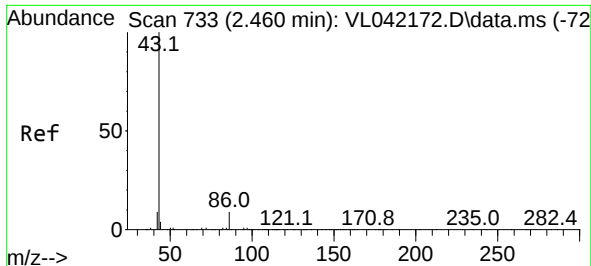
84 100

49 149.6 120.2 180.4

51 32.2 37.4 56.0#

86 72.9 52.4 78.6

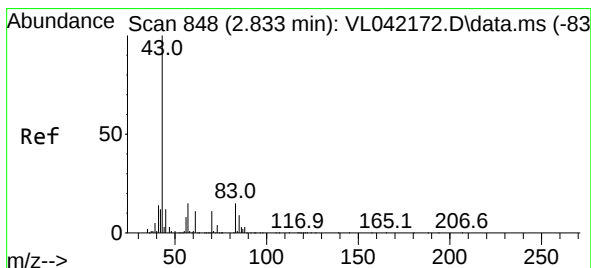
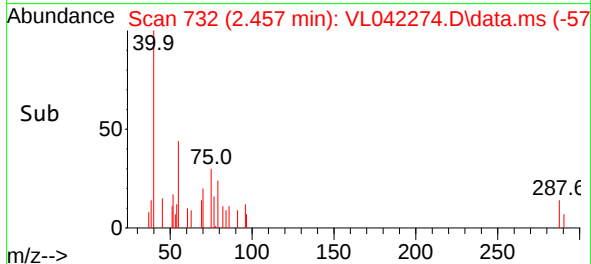
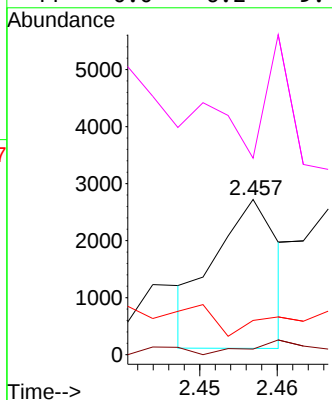
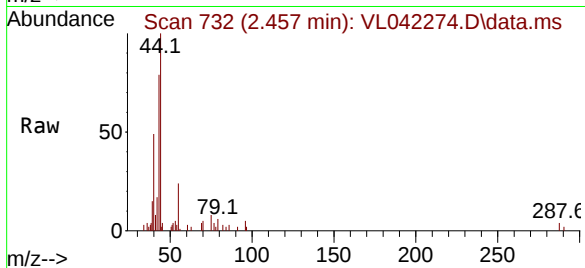




#23
Vinyl Acetate
Concen: 0.158 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

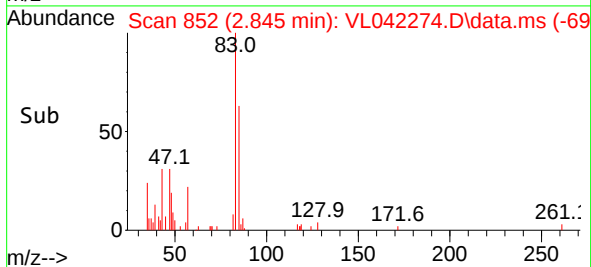
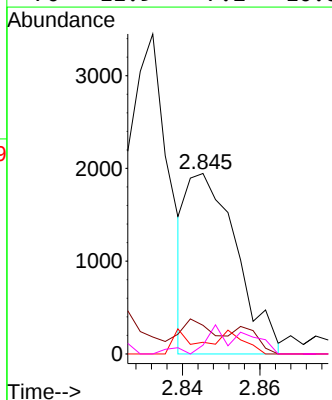
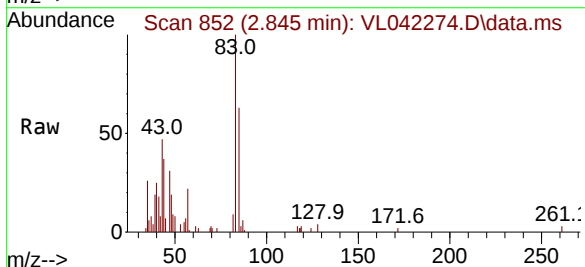
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

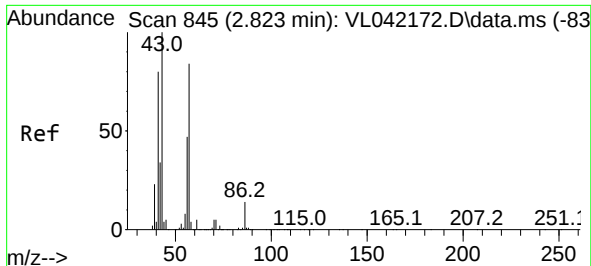
Tgt Ion: 43	Resp: 1492
Ion Ratio	Lower Upper
43	100
86	0.0 5.5 8.3#
42	0.0 8.6 13.0#
44	0.0 6.2 9.4#



#25
Ethyl Acetate
Concen: 0.031 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 43	Resp: 1744
Ion Ratio	Lower Upper
43	100
45	0.0 8.2 12.2#
61	12.3 7.3 10.9#
70	11.9 7.2 10.8#

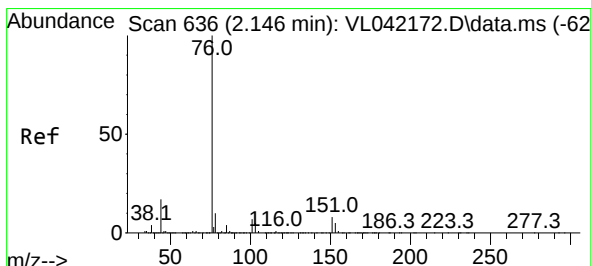
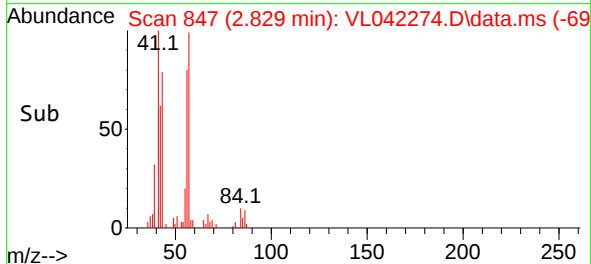
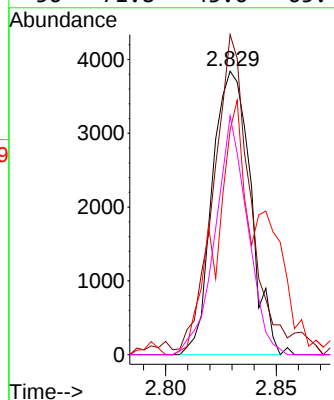
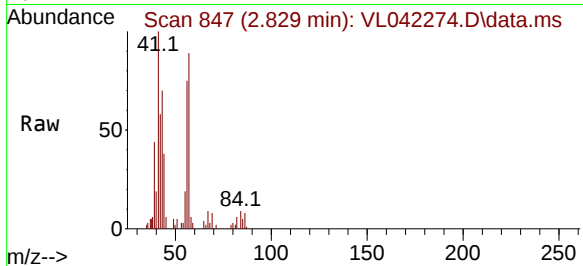




#26
Hexane
Concen: 0.210 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

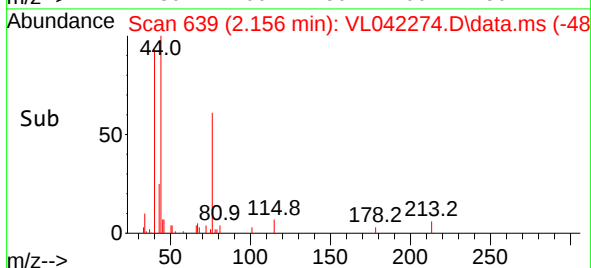
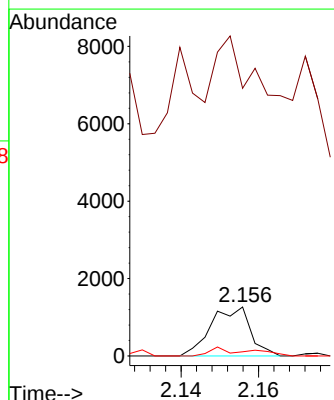
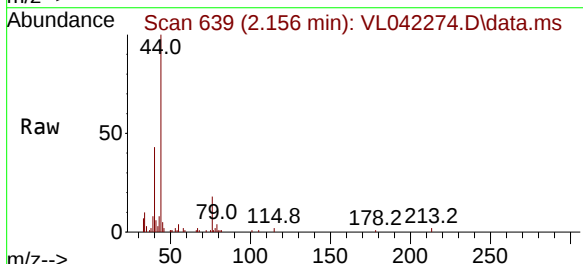
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

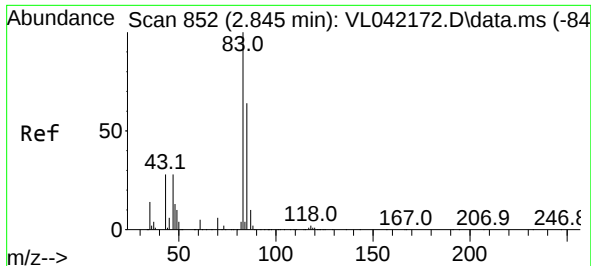
Tgt Ion: 57 Resp: 4605
Ion Ratio Lower Upper
57 100
41 114.7 76.6 114.8
43 112.7 207.8 311.8#
56 71.8 43.6 65.4#



#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 76 Resp: 899
Ion Ratio Lower Upper
76 100
44 1460.4 14.7 22.1#
78 17.1 9.3 13.9#





#29

Chloroform

Concen: 0.281 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

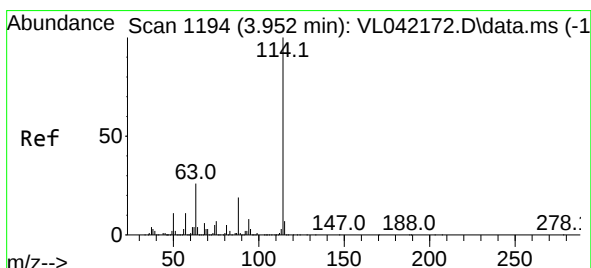
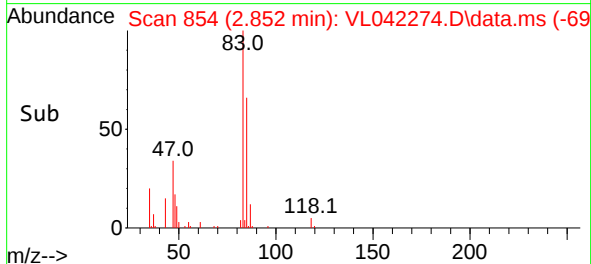
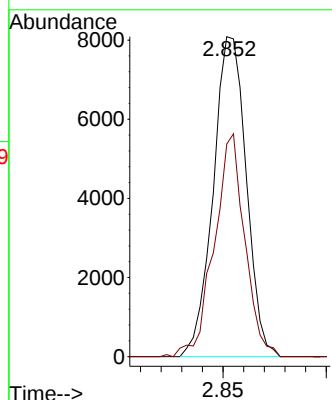
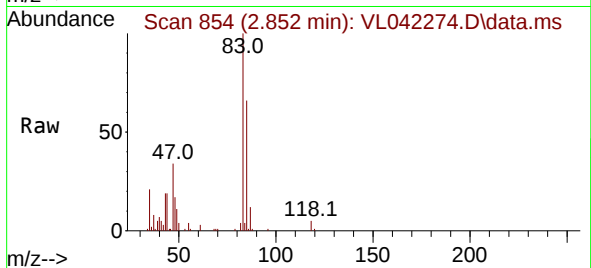
SSSG-B1-4-04012025

Tgt Ion: 83 Resp: 9004

Ion Ratio Lower Upper

83 100

85 66.5 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: VL042274.D

Acq: 08 Apr 2025 22:11

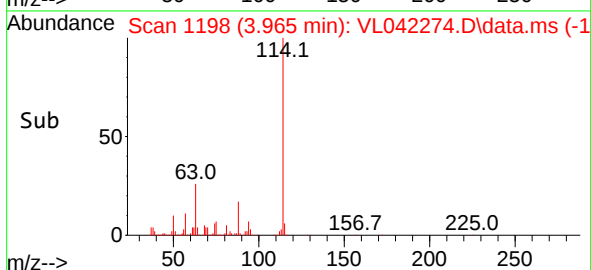
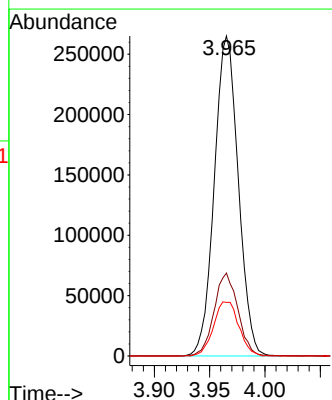
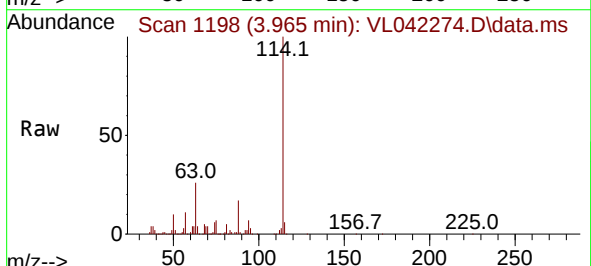
Tgt Ion: 114 Resp: 398763

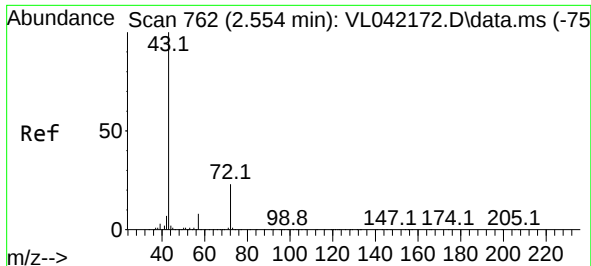
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 18.0 15.0 22.4

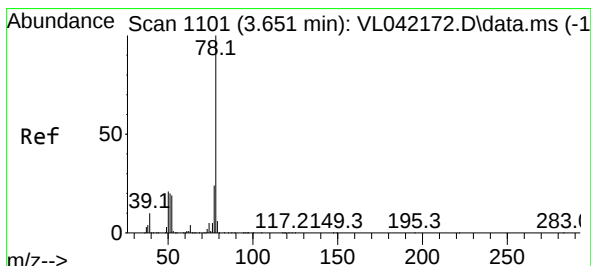
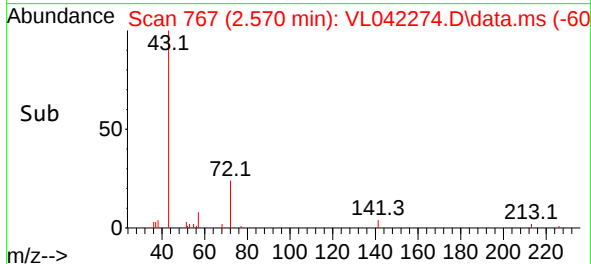
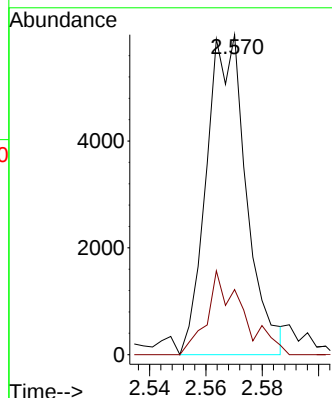
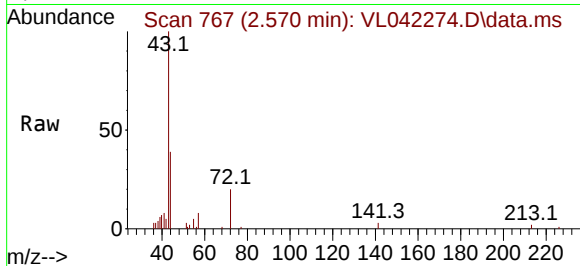




#34
2-Butanone
Concen: 0.203 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

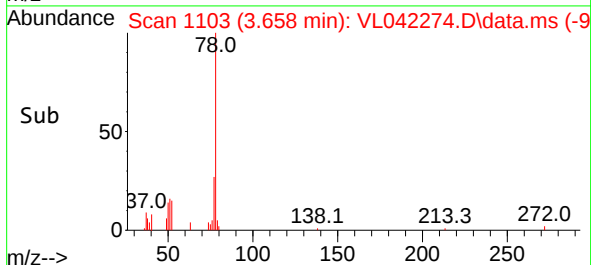
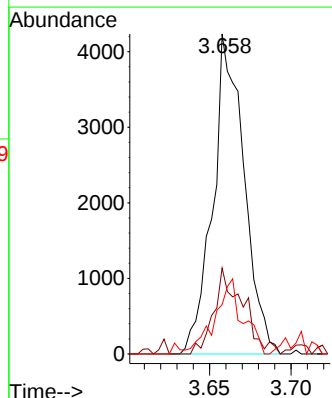
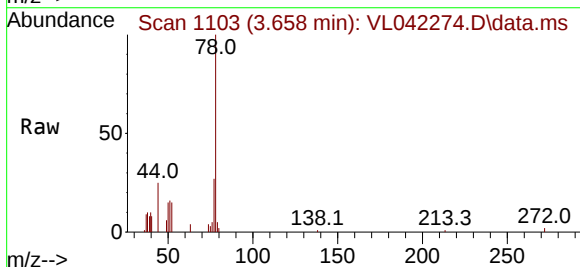
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

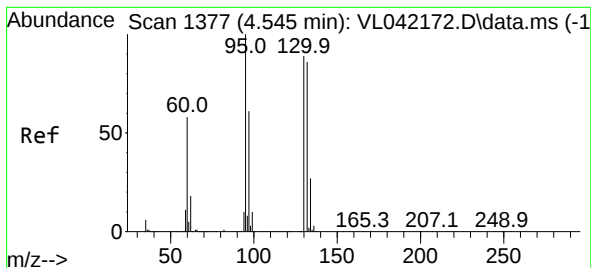
Tgt Ion: 43 Resp: 5858
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2



#36
Benzene
Concen: 0.143 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 78 Resp: 5637
Ion Ratio Lower Upper
78 100
77 26.8 19.1 28.7
50 14.1 16.6 24.8#





#38

Trichloroethene

Concen: 0.052 ppbv

RT: 4.557 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-4-04012025

Tgt Ion:130 Resp: 854

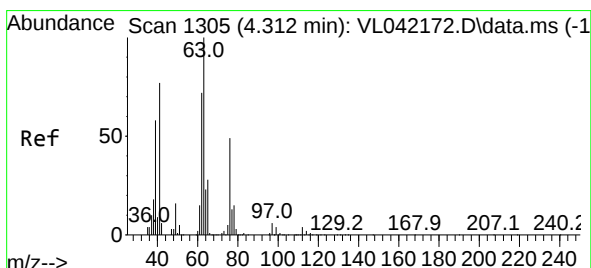
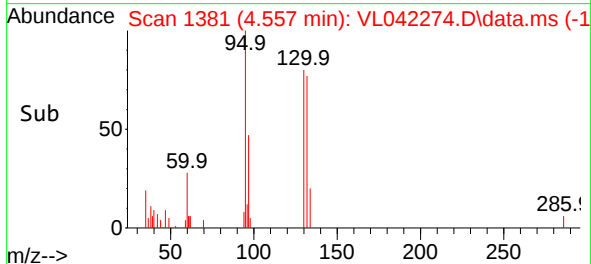
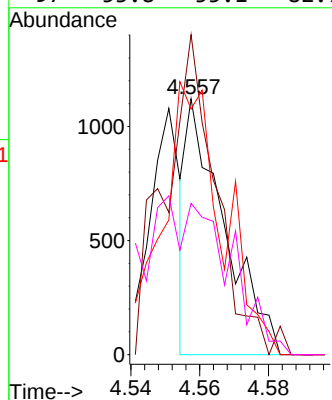
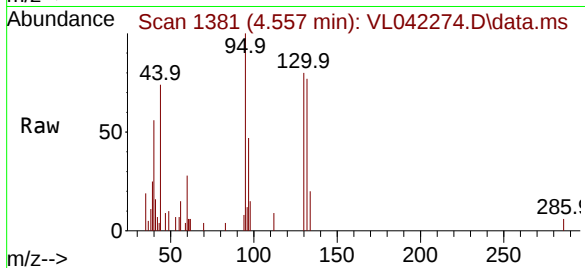
Ion Ratio Lower Upper

130 100

95 113.9 89.8 134.8

132 96.0 77.4 116.2

97 53.8 55.1 82.7#



#39

1,2-Dichloropropane

Concen: 7.112 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

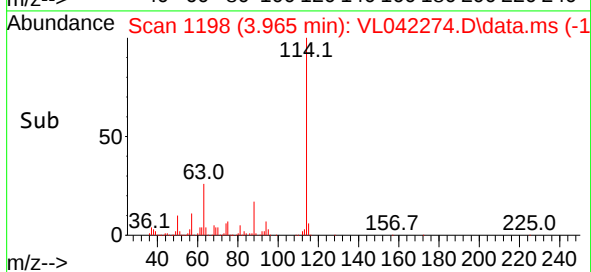
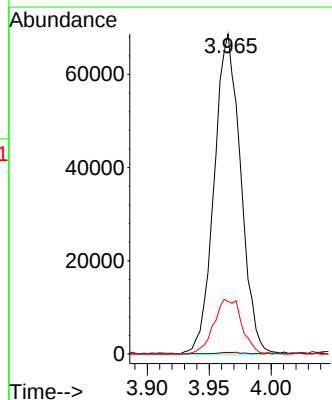
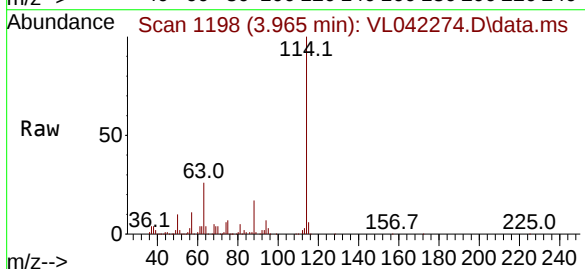
Tgt Ion: 63 Resp: 102394

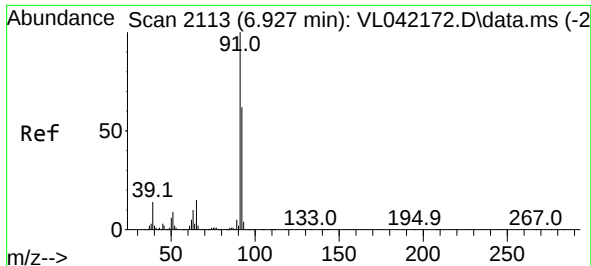
Ion Ratio Lower Upper

63 100

41 0.6 61.7 92.5#

62 16.3 57.6 86.4#

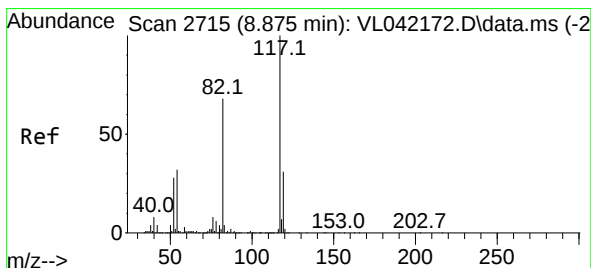
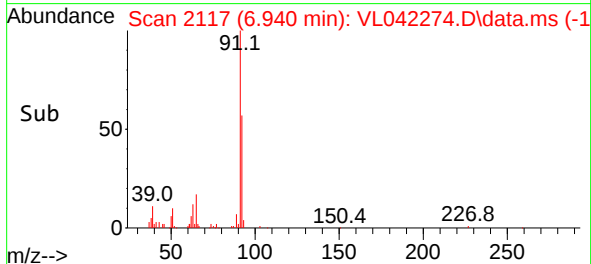
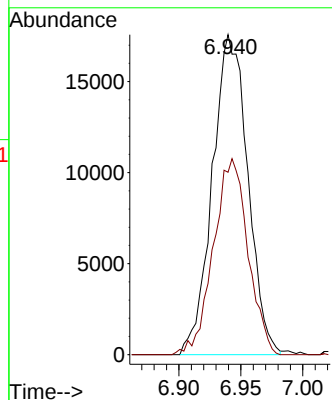
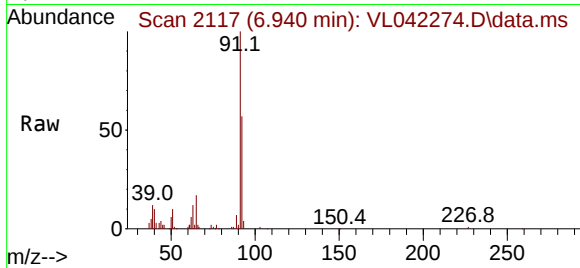




#53
Toluene
Concen: 0.746 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

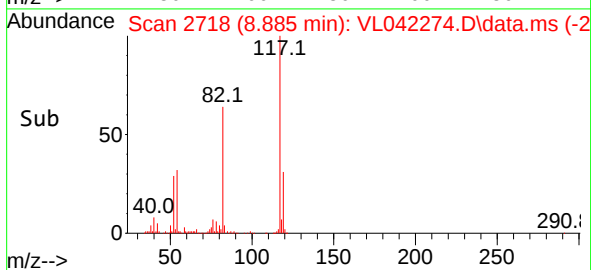
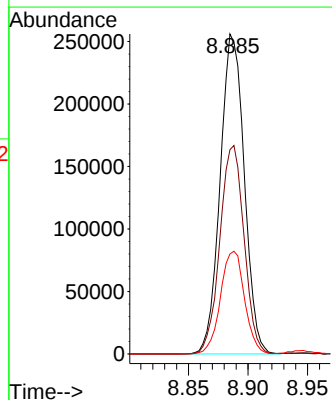
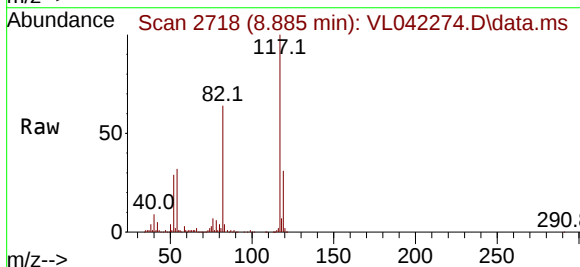
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

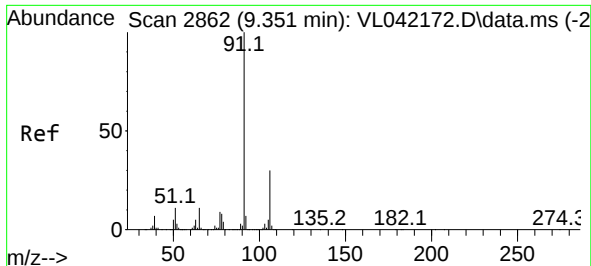
Tgt Ion: 91 Resp: 34973
Ion Ratio Lower Upper
91 100
92 59.7 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 117 Resp: 359554
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3





#58

Ethyl Benzene

Concen: 0.157 ppbv

RT: 9.364 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

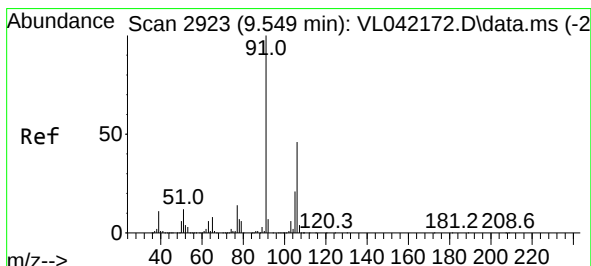
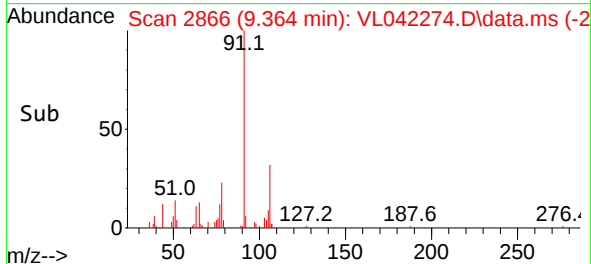
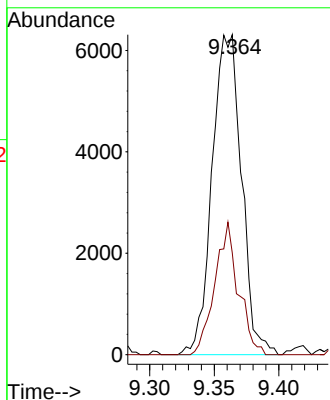
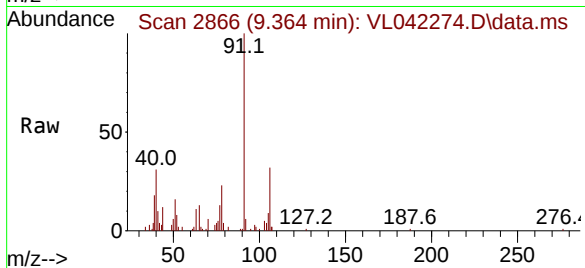
SSSG-B1-4-04012025

Tgt Ion: 91 Resp: 10002

Ion Ratio Lower Upper

91 100

106 31.8 24.2 36.2



#59

m/p-Xylene

Concen: 0.631 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.013 min

Lab File: VL042274.D

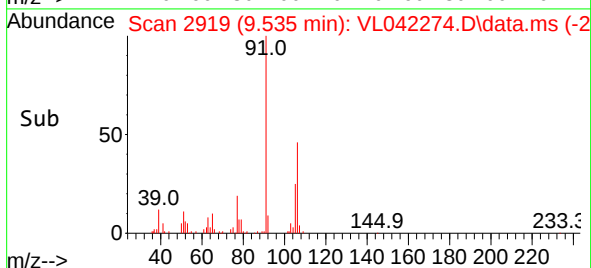
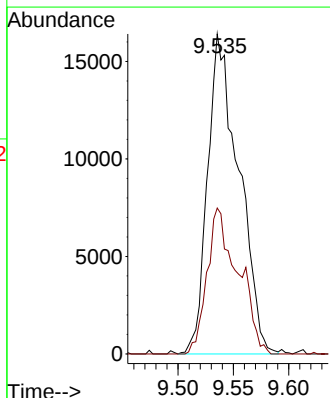
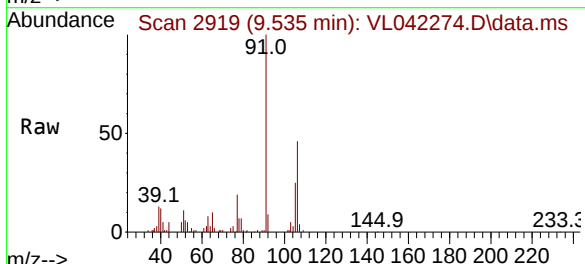
Acq: 08 Apr 2025 22:11

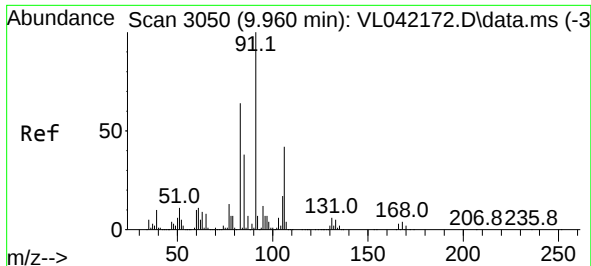
Tgt Ion: 91 Resp: 32175

Ion Ratio Lower Upper

91 100

106 45.3 36.4 54.6

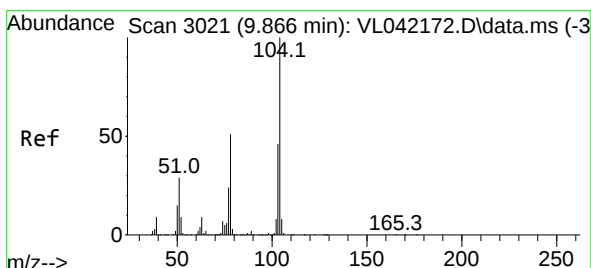
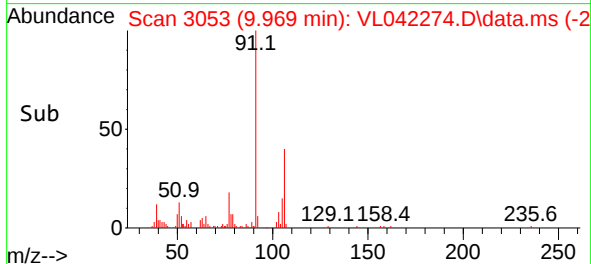
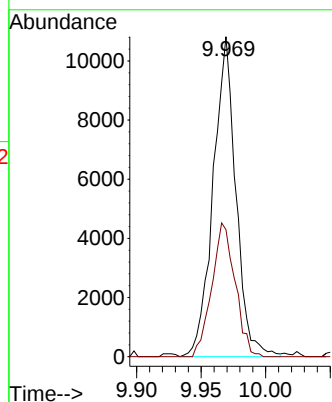
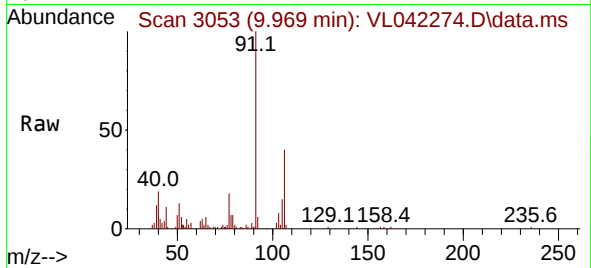




#60
o-Xylene
Concen: 0.259 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

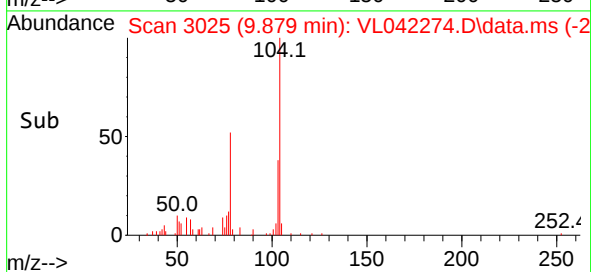
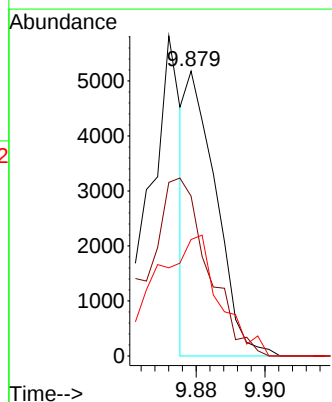
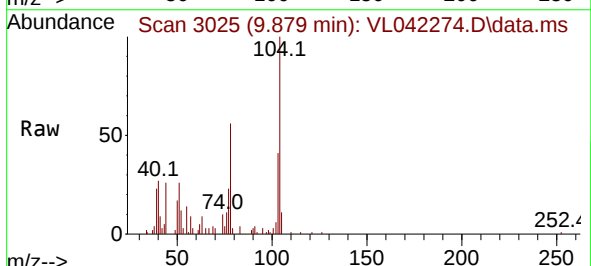
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

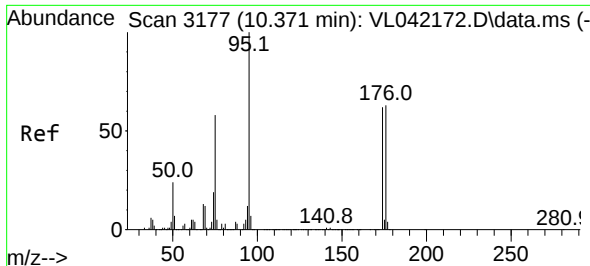
Tgt Ion: 91 Resp: 13256
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5



#61
Styrene
Concen: 0.123 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 104 Resp: 3116
Ion Ratio Lower Upper
104 100
78 127.5 41.8 62.6#
103 94.6 37.0 55.4#

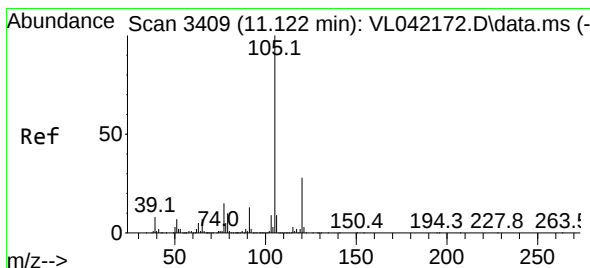
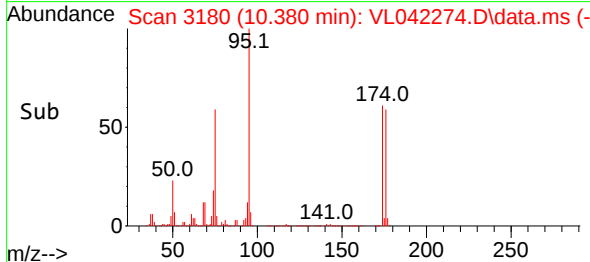
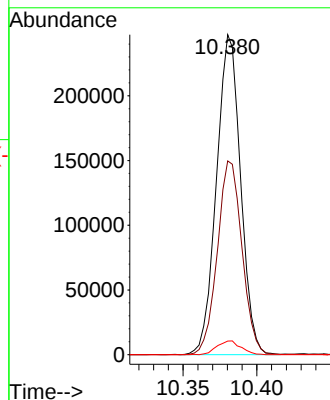
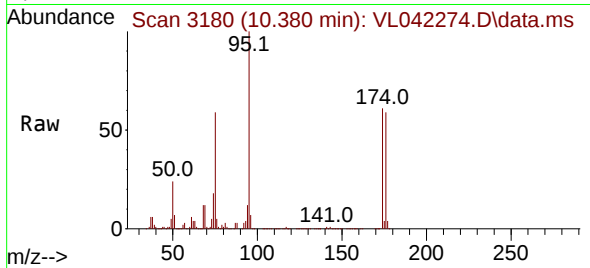




#68
1-Bromo-4-Fluorobenzene
Concen: 9.520 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

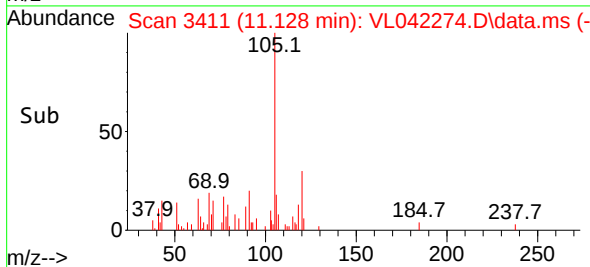
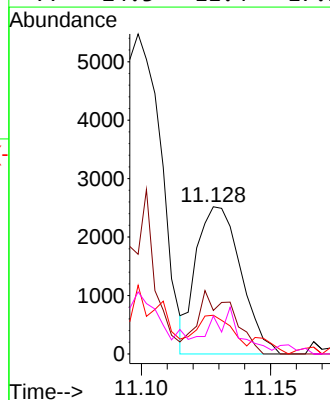
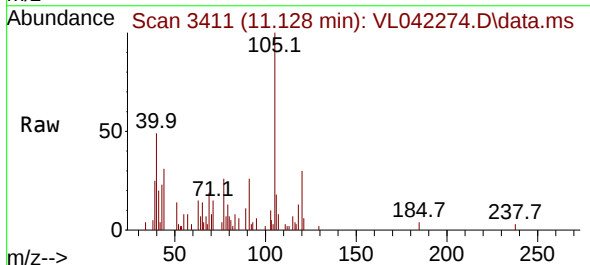
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

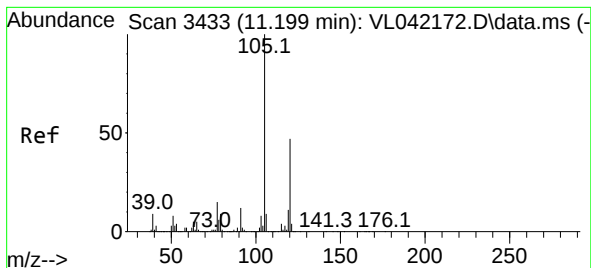
Tgt Ion: 95 Resp: 281110
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.3 3.8 5.6



#72
4-Ethyltoluene
Concen: 0.048 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 105 Resp: 3026
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 24.3 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.066 ppbv

RT: 11.209 min Scan# 3433

Delta R.T. 0.010 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_1

ClientSampleId :

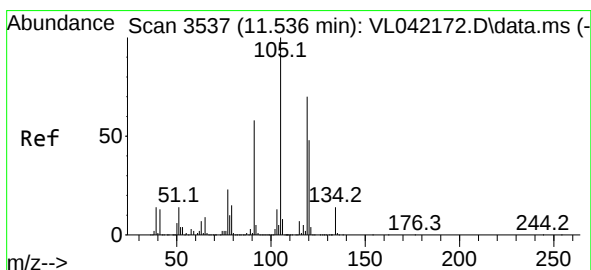
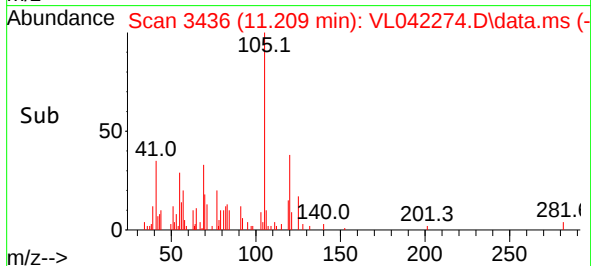
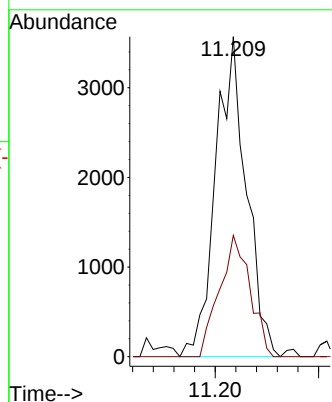
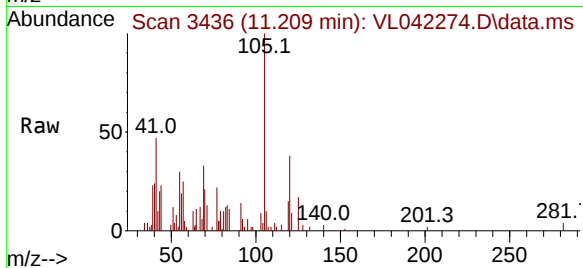
SSSG-B1-4-04012025

Tgt Ion:105 Resp: 3685

Ion Ratio Lower Upper

105 100

120 37.9 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.156 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Tgt Ion:105 Resp: 9995

Ion Ratio Lower Upper

105 100

120 32.7 38.6 58.0#

91 9.8 46.2 69.2#

77 19.2 18.6 27.8

