

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042278.D
 Acq On : 09 Apr 2025 00:15
 Operator : SY/MD
 Sample : Q1728-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

Quant Time: Apr 09 02:03:01 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)

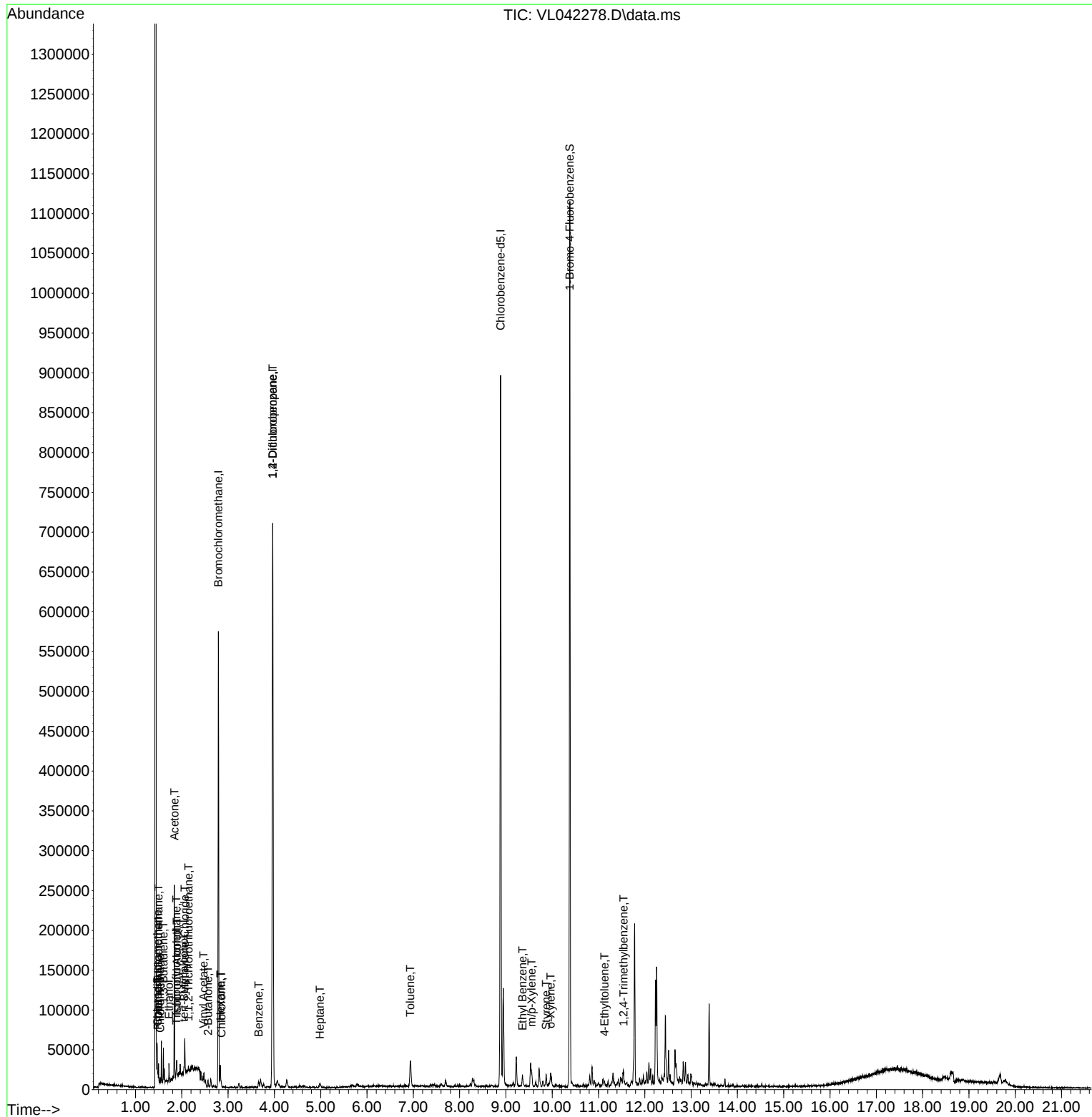
Internal Standards						
1) Bromochloromethane	2.790	49	158831	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	406344	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	351845	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	274750	9.509	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5250	0.224	ppbv	95
3) Chlorodifluoromethane	1.476	51	4854	0.203	ppbv #	85
4) Chloromethane	1.531	50	1329	0.139	ppbv #	87
9) Propene	1.483	41	966	0.088	ppbv #	65
10) Heptane	4.981	43	999	0.034	ppbv #	28
11) Trichlorofluoromethane	1.881	101	2481	0.109	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.143	101	729	0.039	ppbv	83
13) Ethanol	1.722	45	6890	6.637	ppbv #	27
15) Acetone	1.839	43	104371	4.699	ppbv	93
16) 1,3-Butadiene	1.602	39	4874	0.449	ppbv #	21
17) tert-Butyl alcohol	2.049	59	2951	0.107	ppbv	99
19) Isopropyl Alcohol	1.890	45	7096	0.566	ppbv #	1
20) Methylene Chloride	2.065	84	6266	0.757	ppbv #	92
23) Vinyl Acetate	2.473	43	3980	0.414	ppbv #	67
26) Hexane	2.832	57	5174	0.232	ppbv #	35
29) Chloroform	2.855	83	1998	0.061	ppbv	94
34) 2-Butanone	2.567	43	5212	0.177	ppbv	99
36) Benzene	3.661	78	4257	0.106	ppbv	95
39) 1,2-Dichloropropane	3.962	63	104031	7.091	ppbv #	21
53) Toluene	6.933	91	23321	0.488	ppbv	97
58) Ethyl Benzene	9.357	91	6275	0.100	ppbv	94
59) m/p-Xylene	9.551	91	5005	0.100	ppbv #	31
60) o-Xylene	9.966	91	6832	0.137	ppbv	98
61) Styrene	9.869	104	3678	0.149	ppbv	99
72) 4-Ethyltoluene	11.128	105	2034	0.033	ppbv #	65
74) 1,2,4-Trimethylbenzene	11.539	105	5159	0.082	ppbv #	65

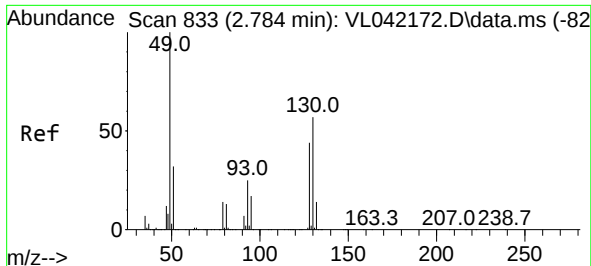
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SSSG-B1-5-04012025

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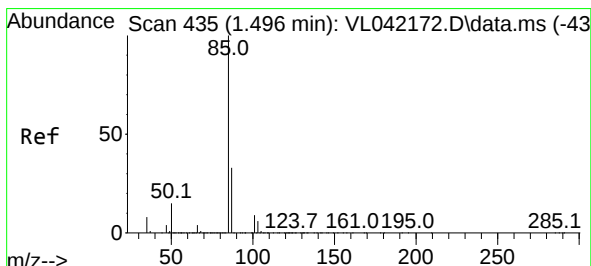
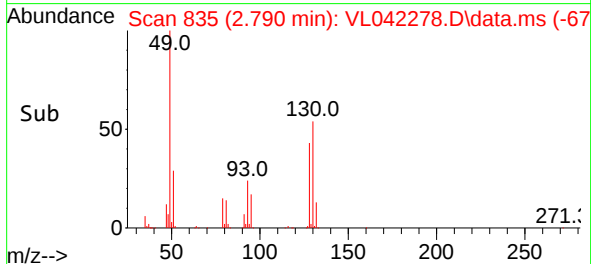
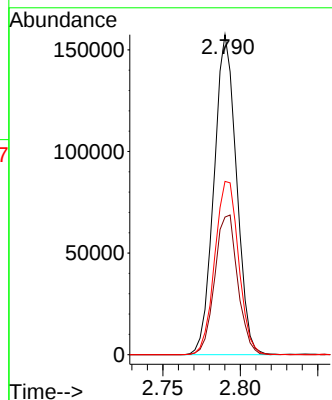
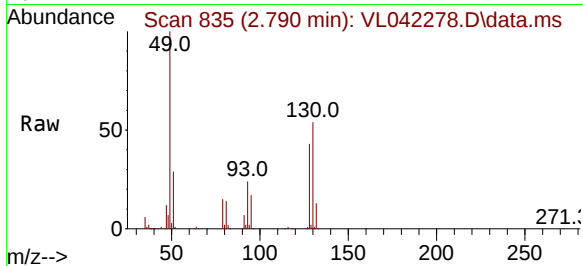




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

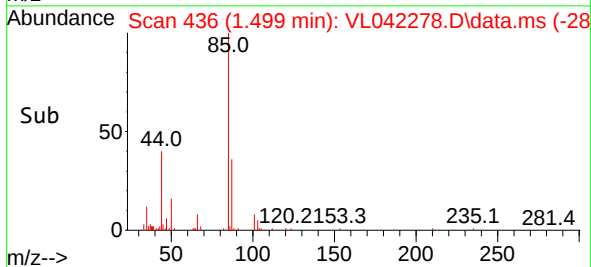
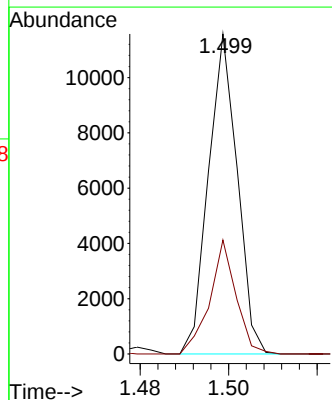
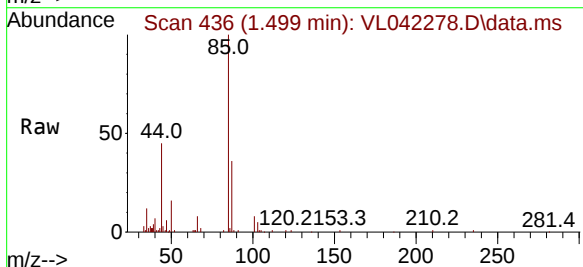
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

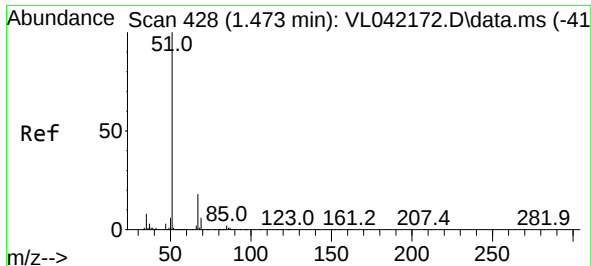
Tgt Ion: 49 Resp: 158831
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.9 68.5
 130 57.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.224 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 85 Resp: 5250
 Ion Ratio Lower Upper
 85 100
 87 35.6 26.1 39.1

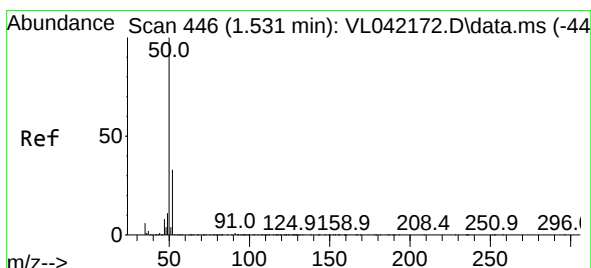
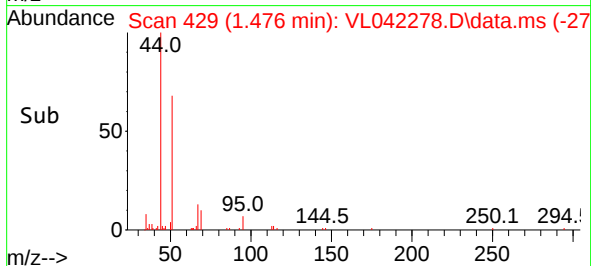
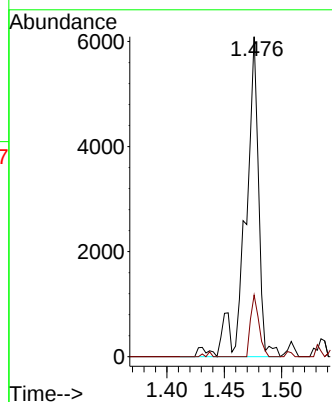
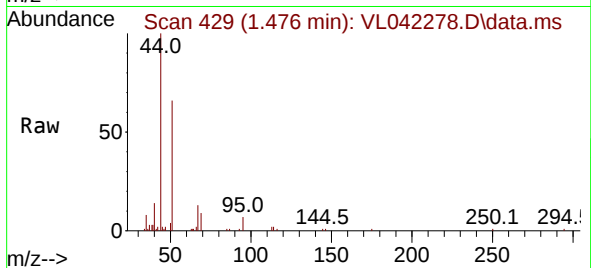




#3
Chlorodifluoromethane
Concen: 0.203 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

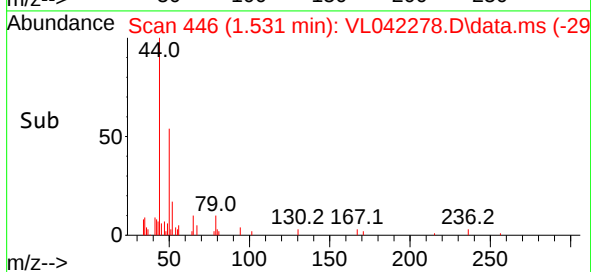
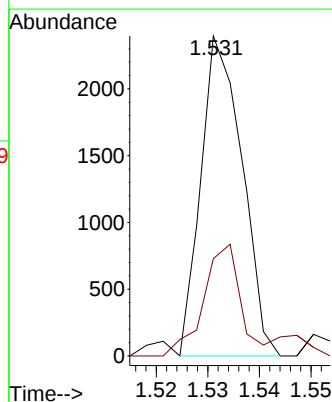
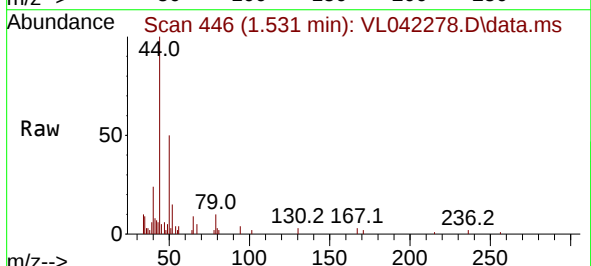
Instrument :
MSVOA_L
ClientSampleId :
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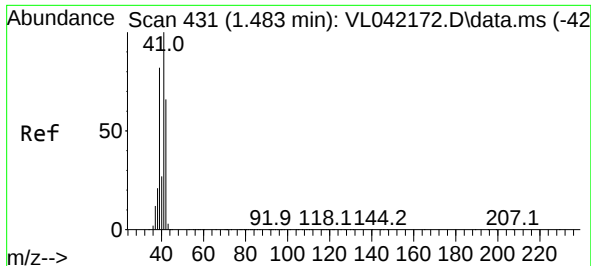
Tgt Ion: 51 Resp: 4854
Ion Ratio Lower Upper
51 100
67 12.2 15.0 22.6#



#4
Chloromethane
Concen: 0.139 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 50 Resp: 1329
Ion Ratio Lower Upper
50 100
52 25.3 26.1 39.1#

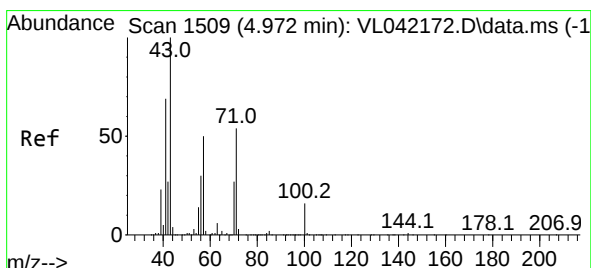
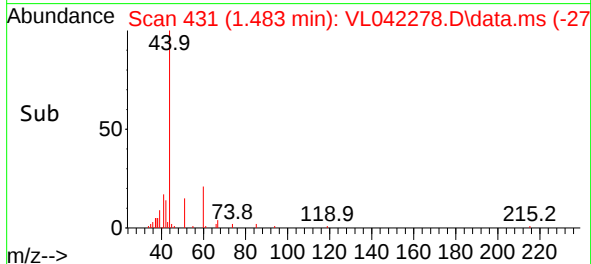
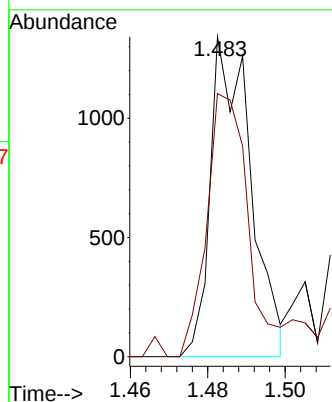
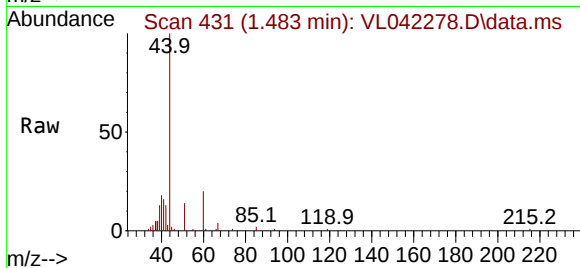




#9
 Propene
 Concen: 0.088 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

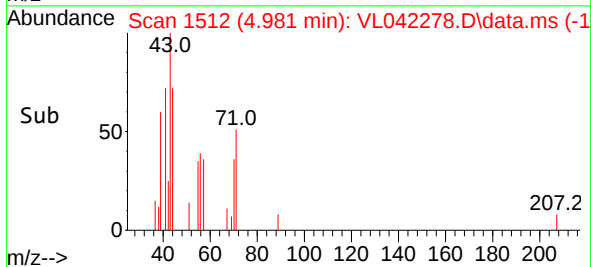
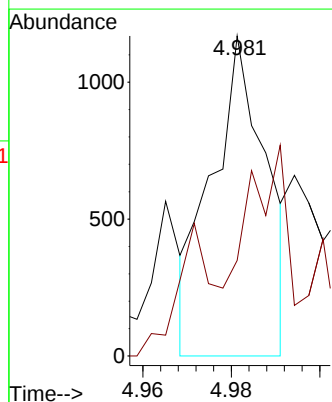
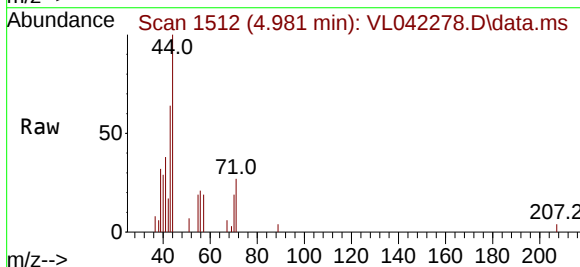
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

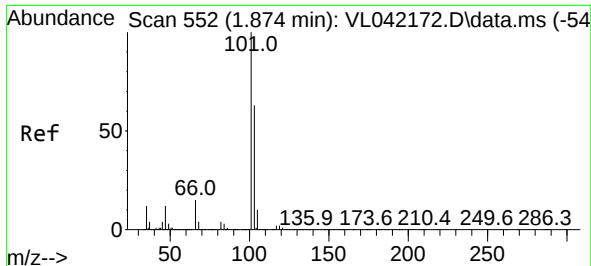
Tgt Ion: 41 Resp: 966
 Ion Ratio Lower Upper
 41 100
 42 97.8 55.4 83.2#



#10
 Heptane
 Concen: 0.034 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.009 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 43 Resp: 999
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#

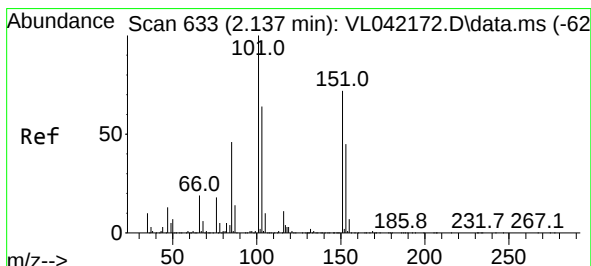
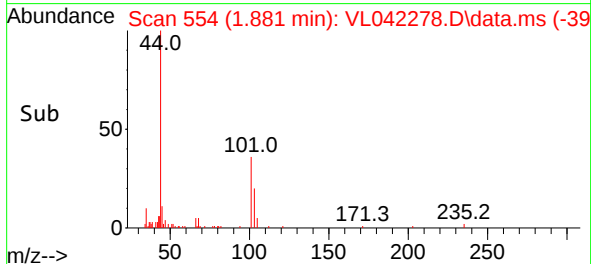
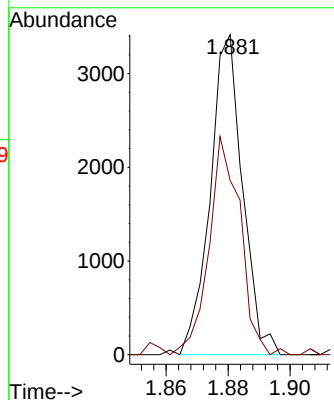
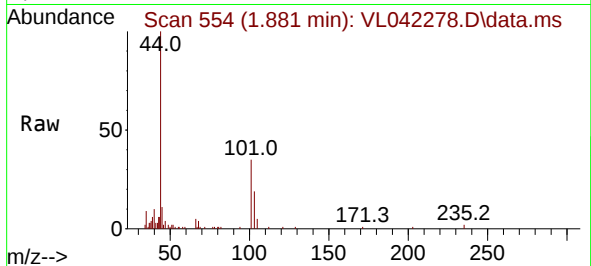




#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

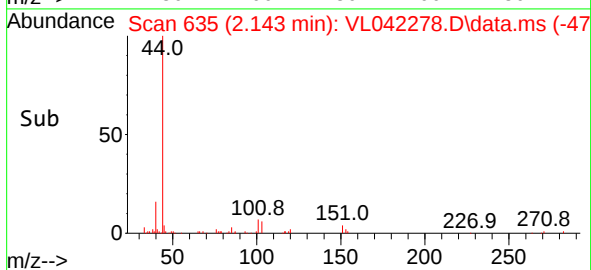
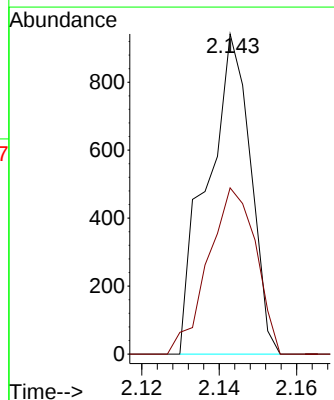
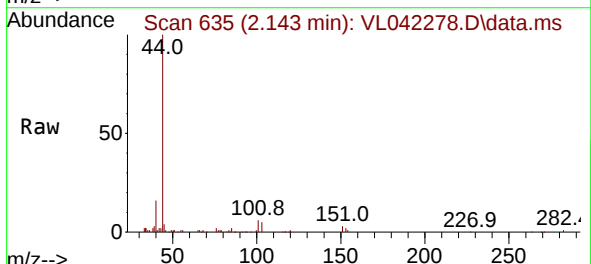
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

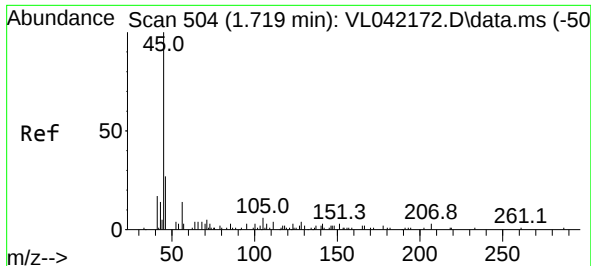
Tgt Ion:101 Resp: 2481
 Ion Ratio Lower Upper
 101 100
 103 52.6 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion:101 Resp: 729
 Ion Ratio Lower Upper
 101 100
 151 57.3 57.1 85.7

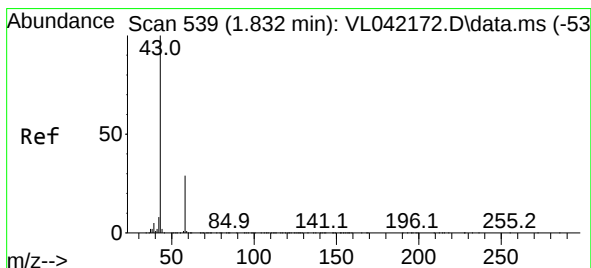
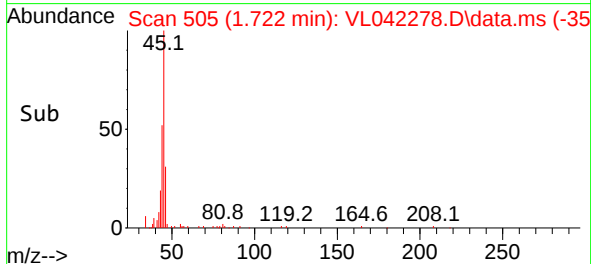
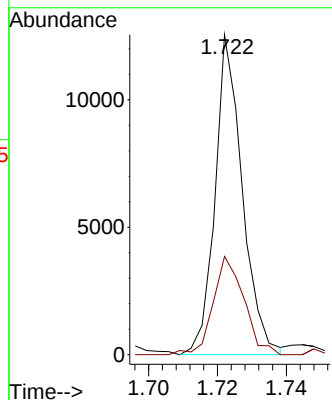
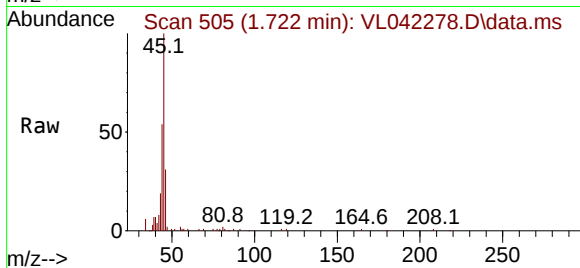




#13
 Ethanol
 Concen: 6.637 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

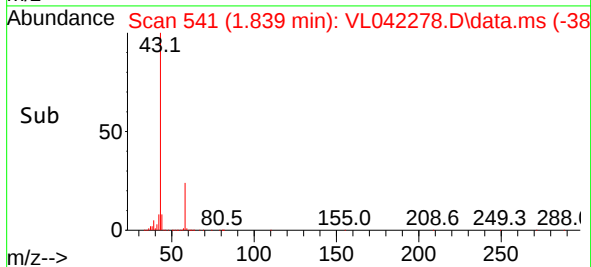
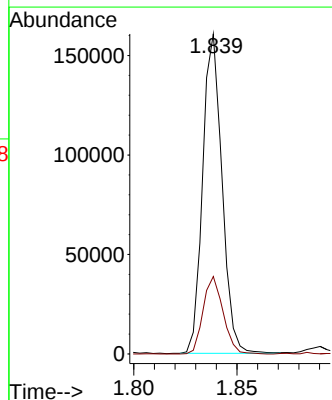
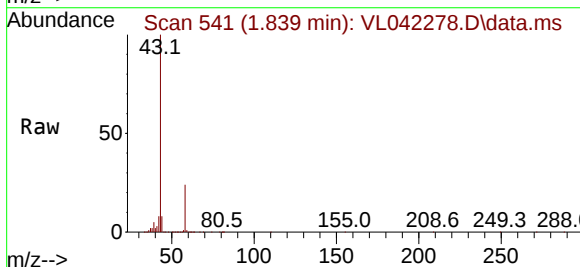
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B1-5-04012025

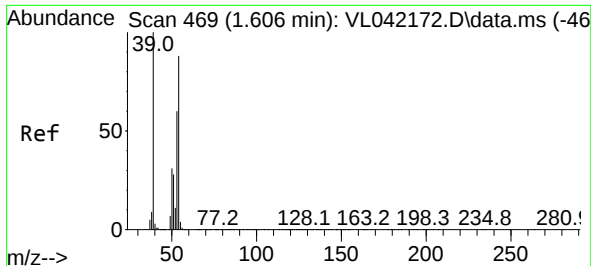
Tgt Ion: 45 Resp: 6890
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#15
 Acetone
 Concen: 4.699 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 43 Resp: 104371
 Ion Ratio Lower Upper
 43 100
 58 25.4 23.2 34.8





#16

1,3-Butadiene

Concen: 0.449 ppbv

RT: 1.602 min Scan# 4

Delta R.T. -0.004 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_1

ClientSampleId :

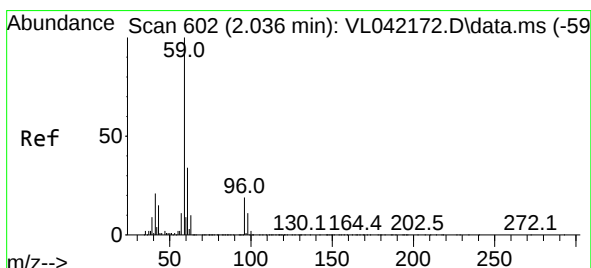
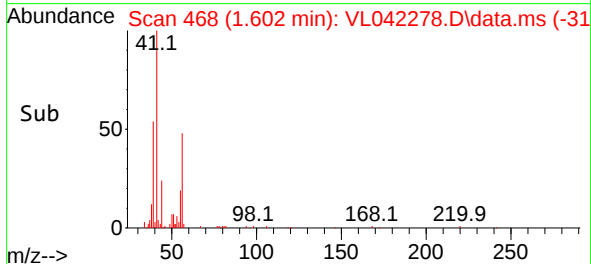
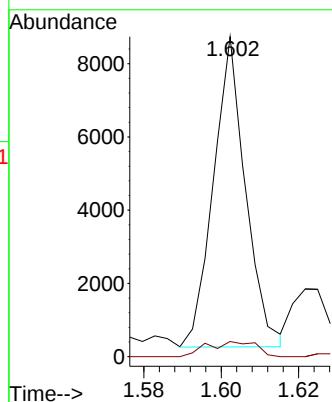
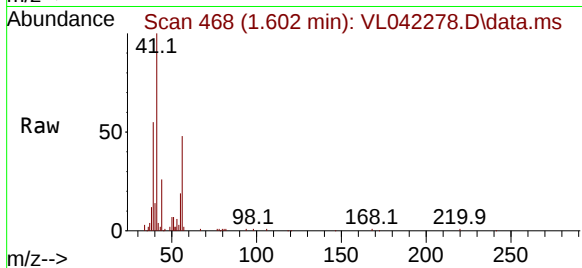
SSSG-B1-5-04012025

Tgt Ion: 39 Resp: 4874

Ion Ratio Lower Upper

39 100

54 8.2 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.107 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042278.D

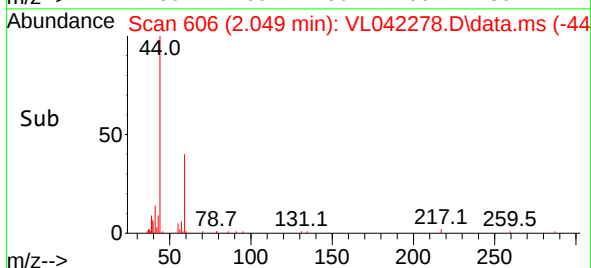
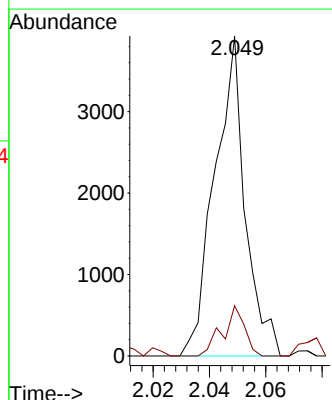
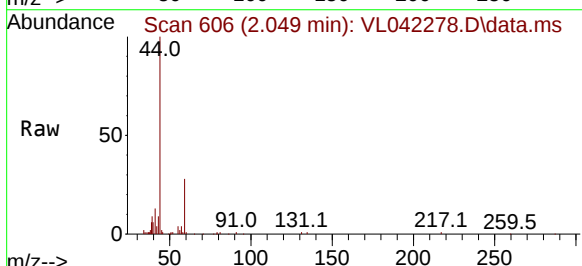
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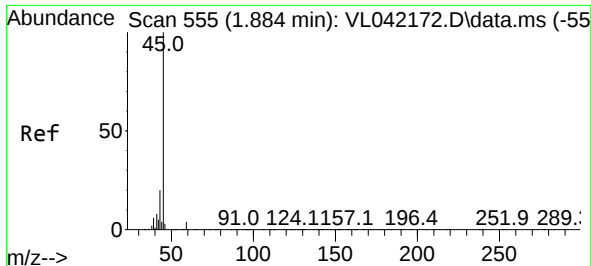
Tgt Ion: 59 Resp: 2951

Ion Ratio Lower Upper

59 100

57 11.3 8.9 13.3

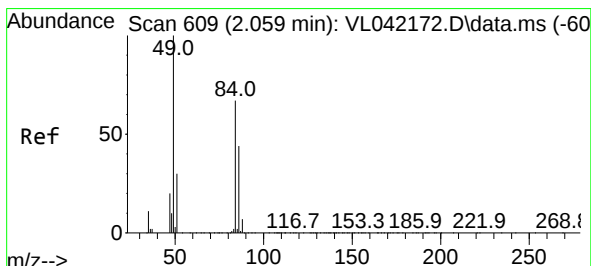
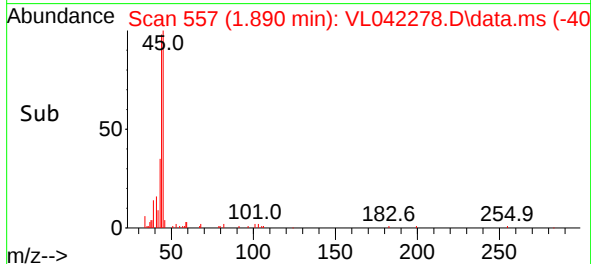
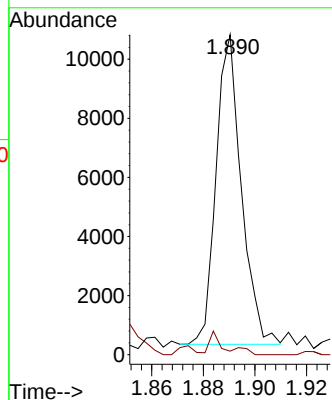
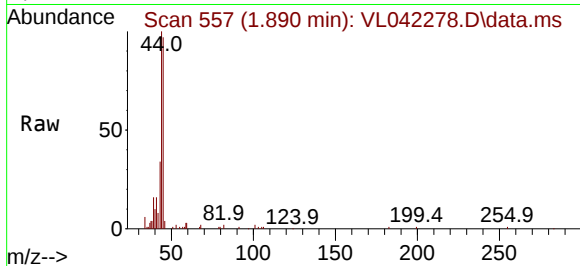




#19
Isopropyl Alcohol
Concen: 0.566 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

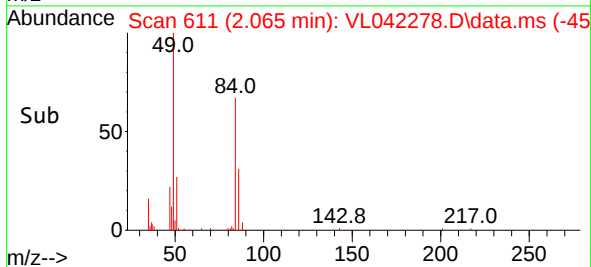
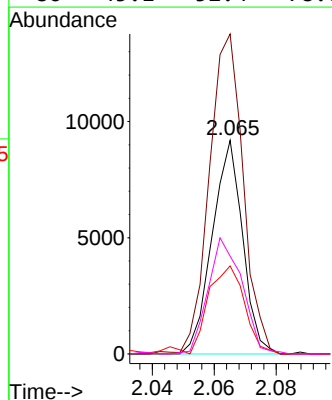
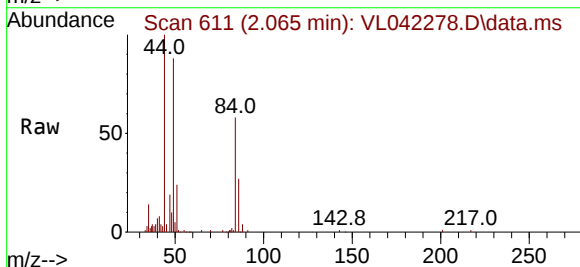
Instrument :
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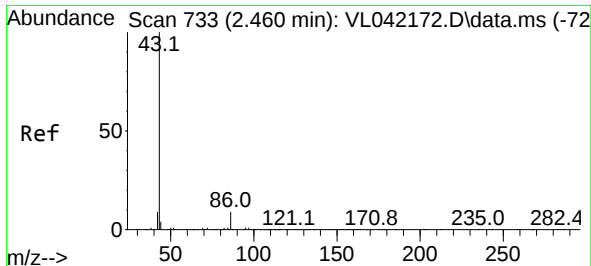
Tgt Ion: 45 Resp: 7096
Ion Ratio Lower Upper
45 100
58 367.8 36.9 55.3#



#20
Methylene Chloride
Concen: 0.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 84 Resp: 6266
Ion Ratio Lower Upper
84 100
49 149.1 120.2 180.4
51 41.2 37.4 56.0
86 45.1 52.4 78.6#

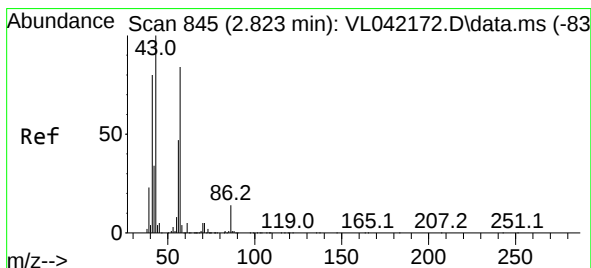
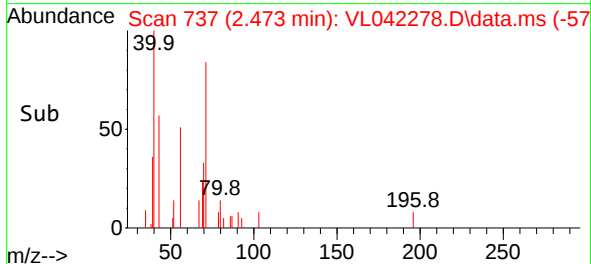
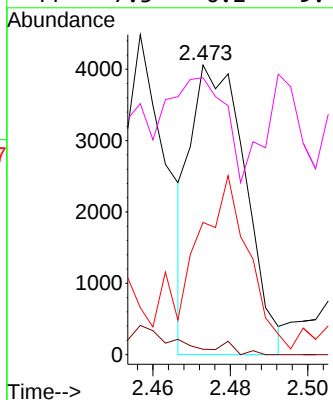
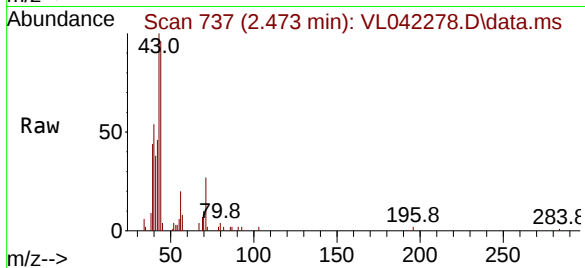




#23
 Vinyl Acetate
 Concen: 0.414 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

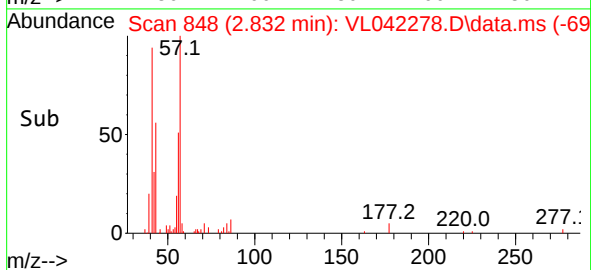
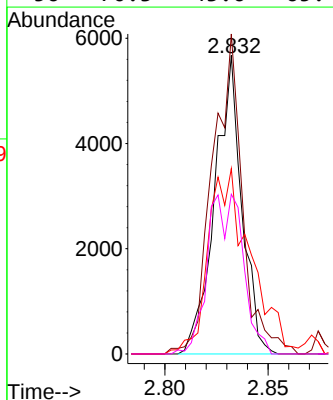
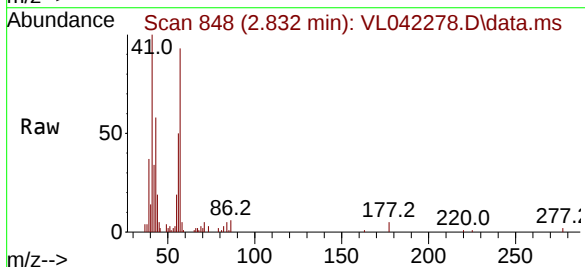
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

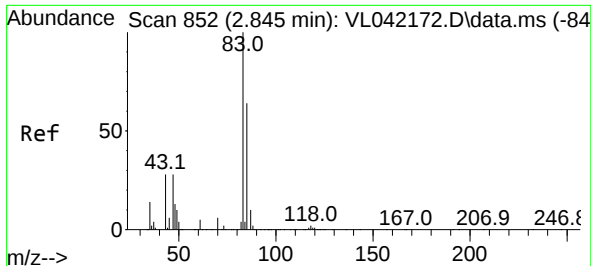
Tgt Ion: 43	Resp:	3980
Ion	Ratio	Lower Upper
43	100	
86	3.8	5.5 8.3#
42	37.3	8.6 13.0#
44	7.3	6.2 9.4



#26
 Hexane
 Concen: 0.232 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.009 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 57	Resp:	5174
Ion	Ratio	Lower Upper
57	100	
41	121.1	76.6 114.8#
43	101.4	207.8 311.8#
56	70.3	43.6 65.4#

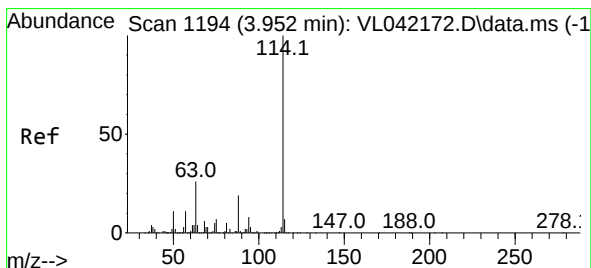
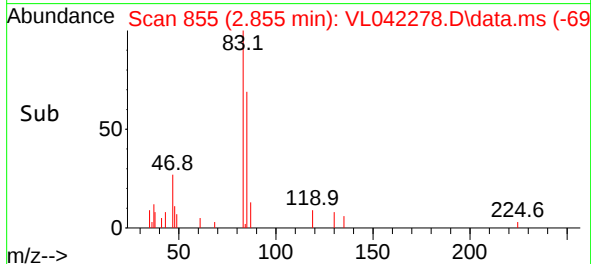
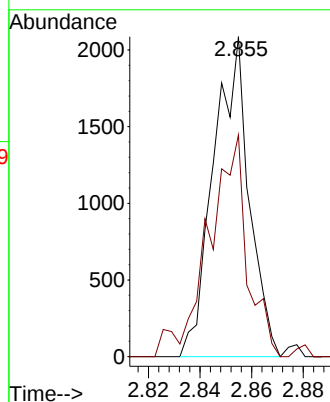
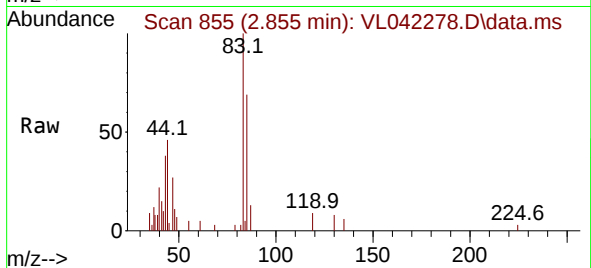




#29
Chloroform
Concen: 0.061 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

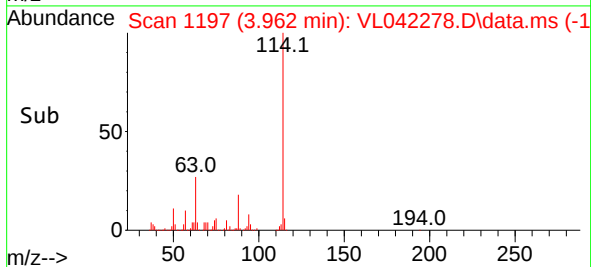
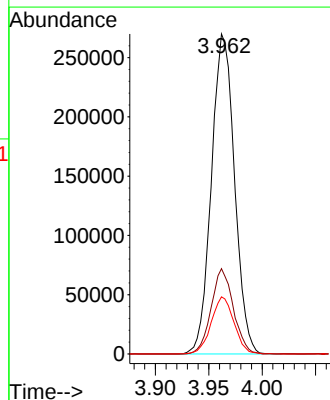
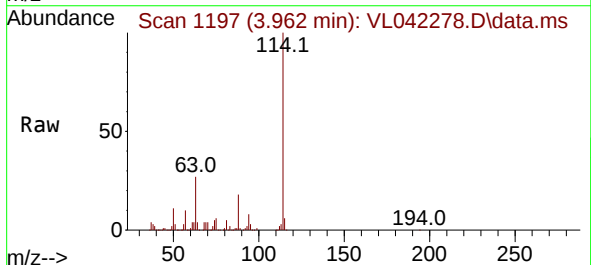
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

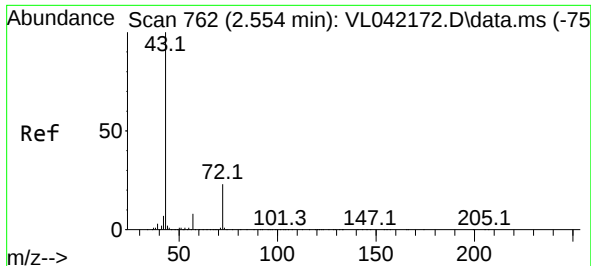
Tgt Ion: 83 Resp: 1998
Ion Ratio Lower Upper
83 100
85 69.3 51.4 77.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 114 Resp: 406344
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.6 15.0 22.4

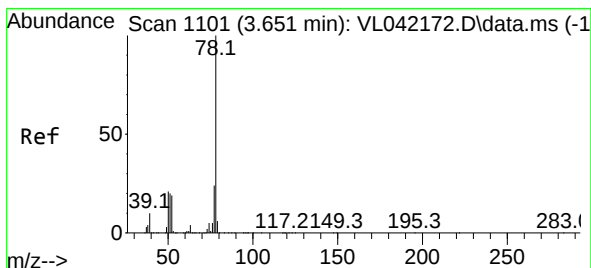
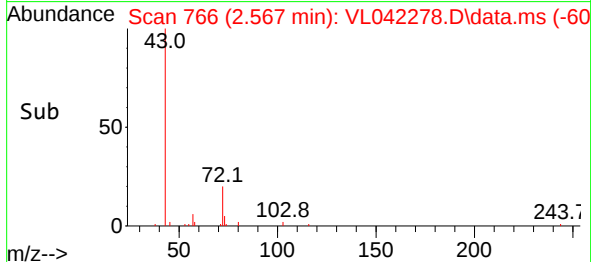
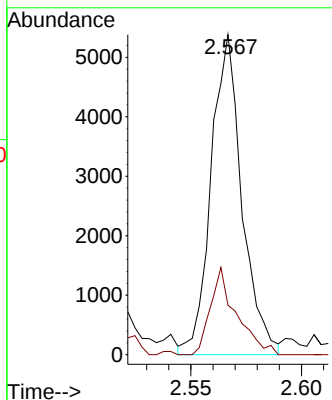
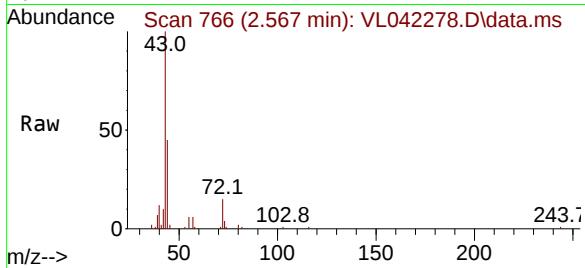




#34
2-Butanone
Concen: 0.177 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

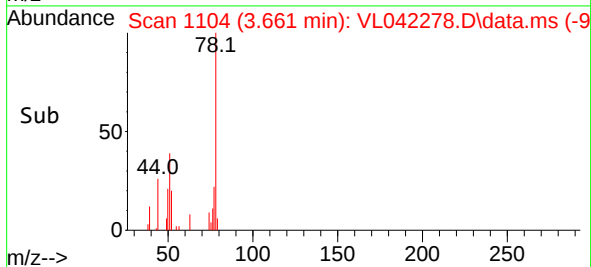
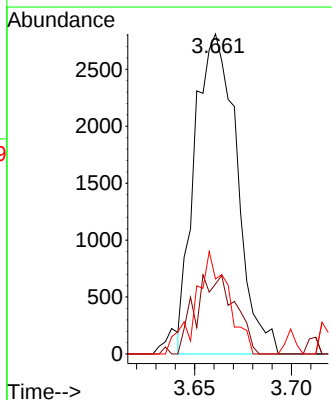
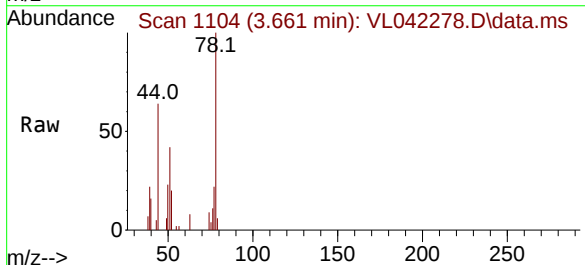
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

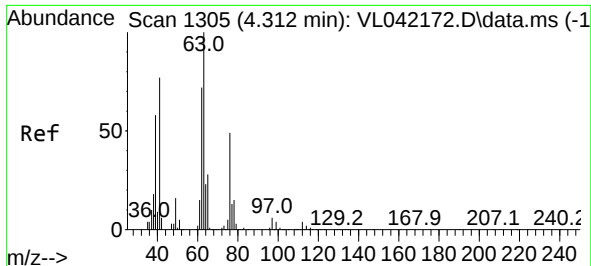
Tgt Ion: 43 Resp: 5212
Ion Ratio Lower Upper
43 100
72 23.0 18.2 27.2



#36
Benzene
Concen: 0.106 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 78 Resp: 4257
Ion Ratio Lower Upper
78 100
77 21.8 19.1 28.7
50 23.5 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.091 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-5-04012025

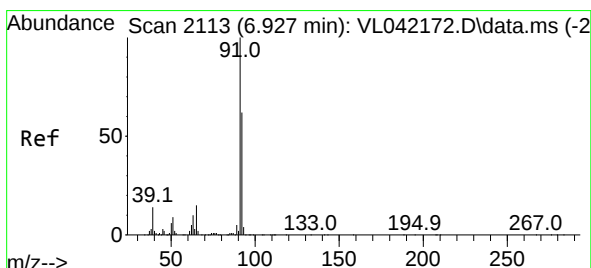
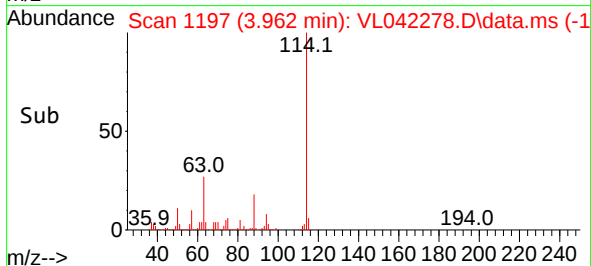
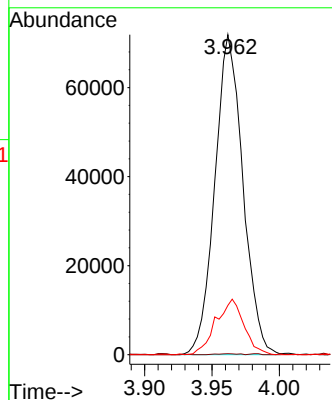
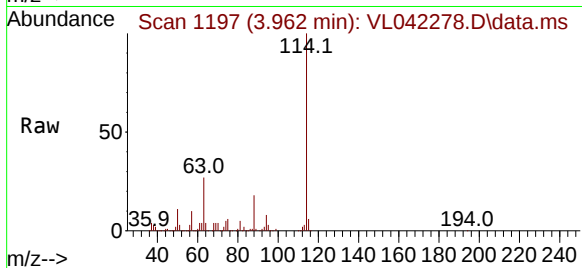
Tgt Ion: 63 Resp: 104031

Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 15.4 57.6 86.4#



#53

Toluene

Concen: 0.488 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.006 min

Lab File: VL042278.D

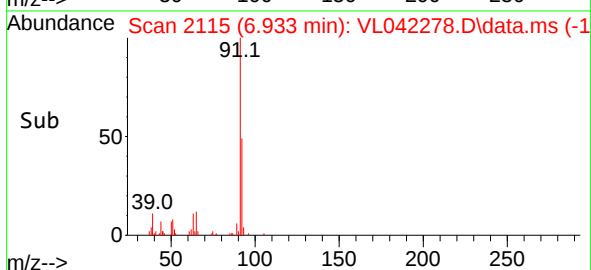
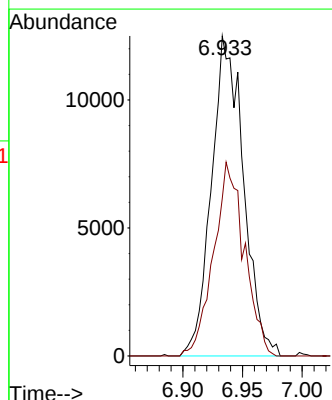
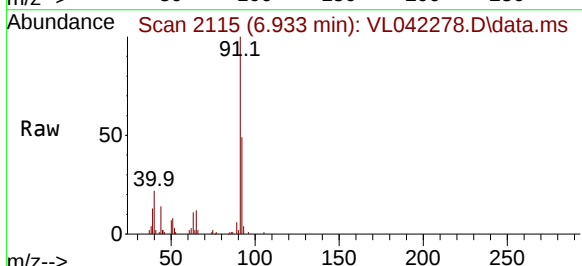
Acq: 09 Apr 2025 00:15

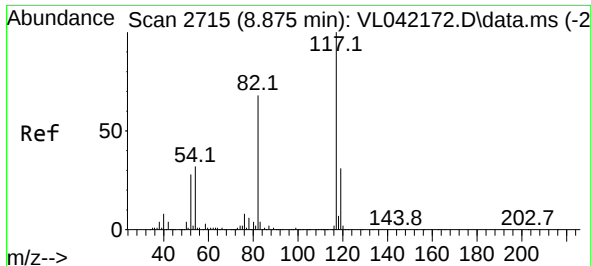
Tgt Ion: 91 Resp: 23321

Ion Ratio Lower Upper

91 100

92 58.3 48.4 72.6

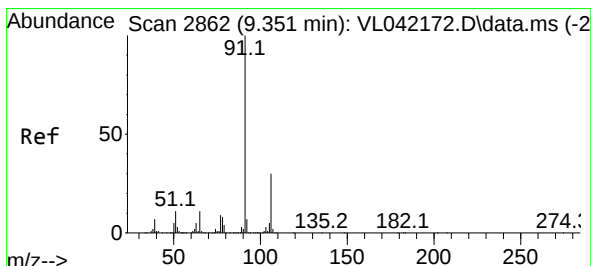
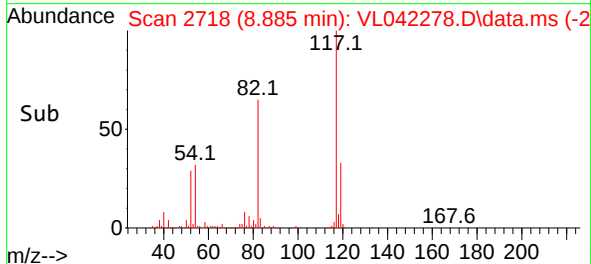
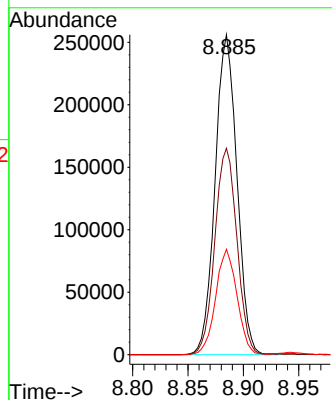
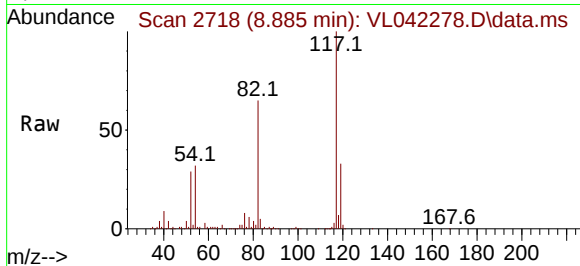




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

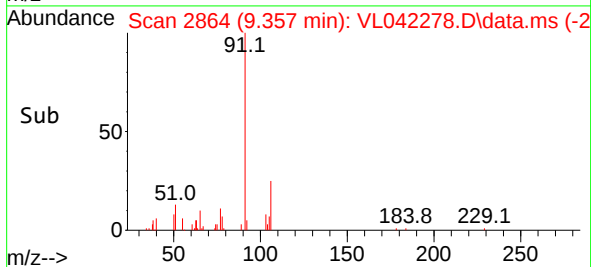
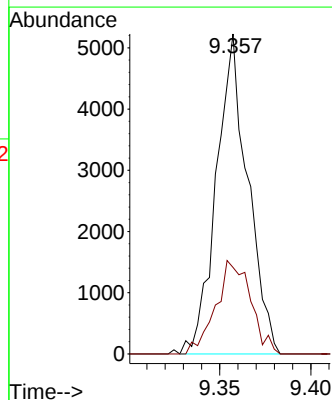
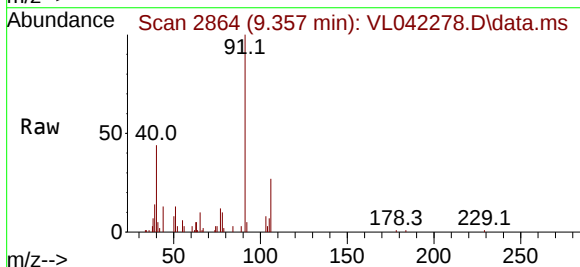
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-5-04012025

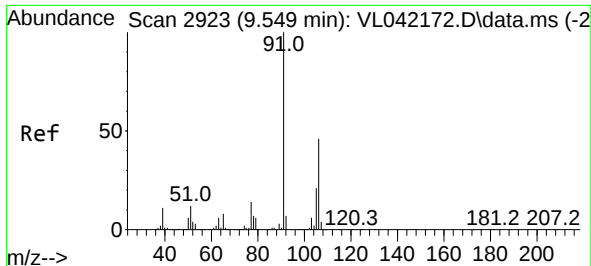
Tgt Ion:117 Resp: 351845
Ion Ratio Lower Upper
117 100
82 65.5 55.8 83.6
119 32.3 25.5 38.3



#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 91 Resp: 6275
Ion Ratio Lower Upper
91 100
106 27.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 9.551 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_L

ClientSampleId :

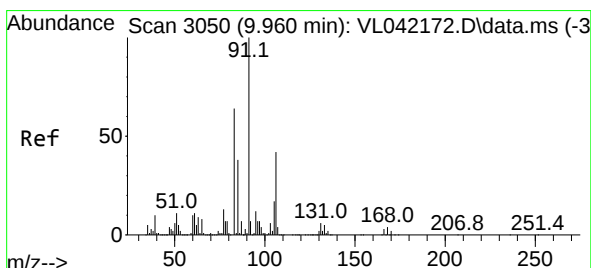
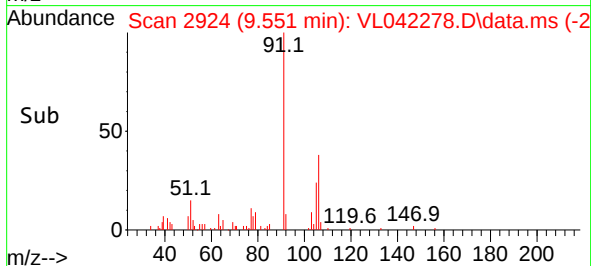
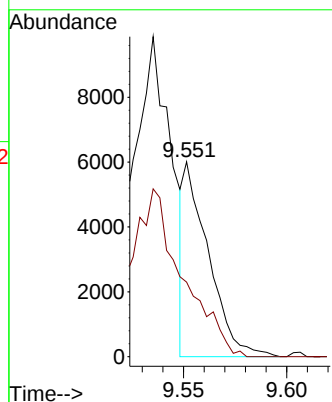
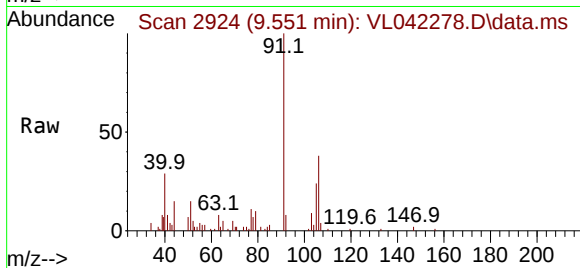
SSSG-B1-5-04012025

Tgt Ion: 91 Resp: 5005

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.137 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042278.D

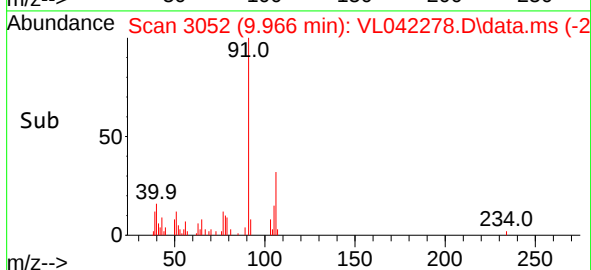
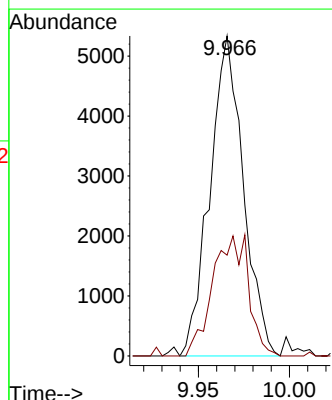
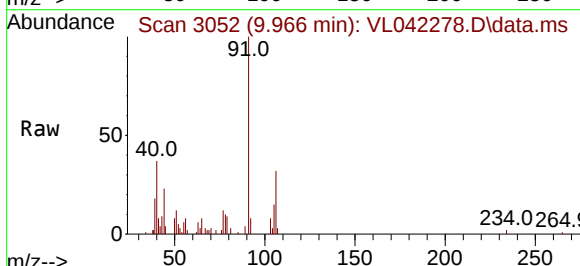
Acq: 09 Apr 2025 00:15

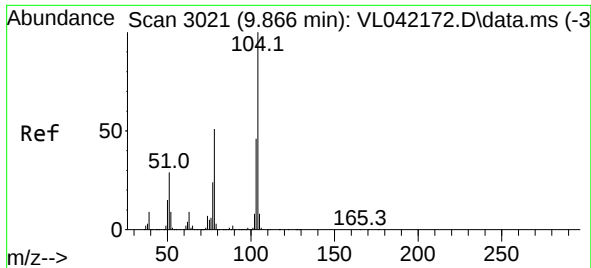
Tgt Ion: 91 Resp: 6832

Ion Ratio Lower Upper

91 100

106 40.7 20.8 62.5

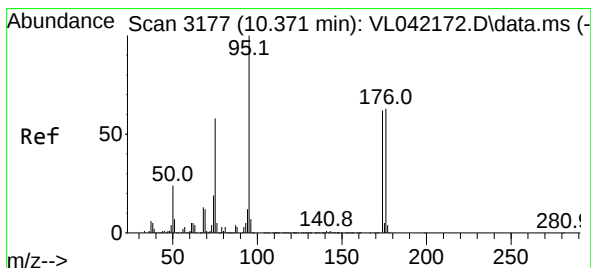
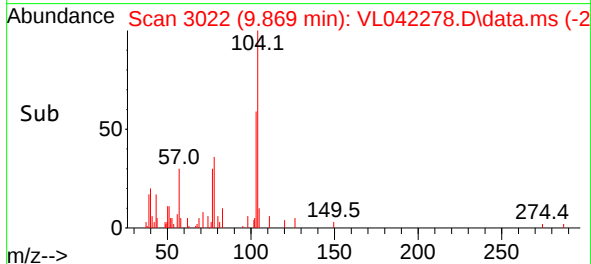
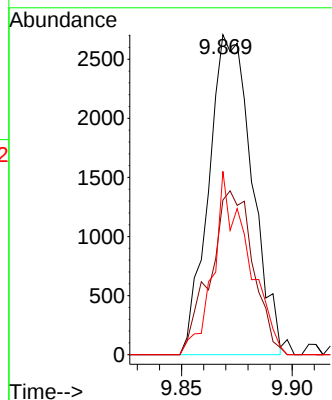
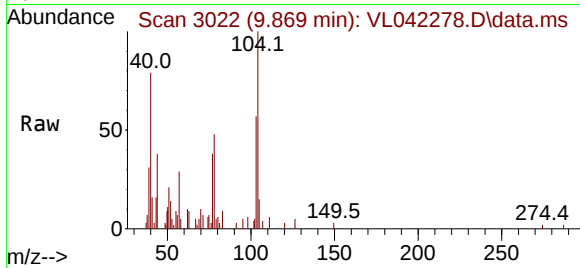




#61
Styrene
Concen: 0.149 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

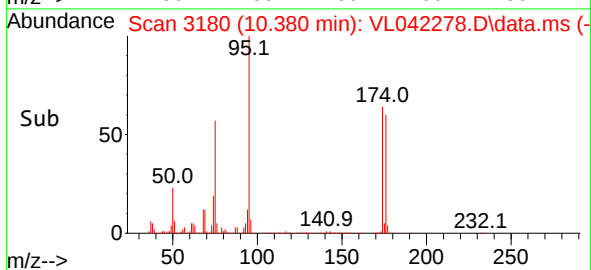
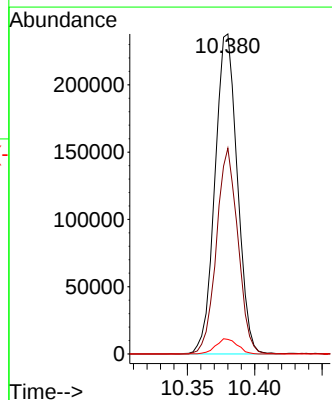
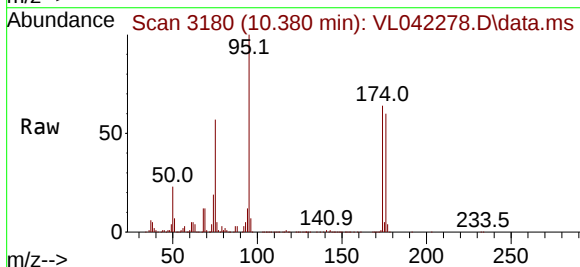
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

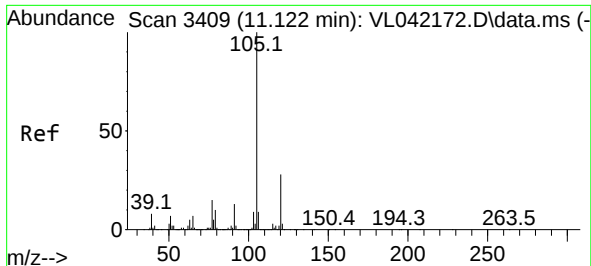
Tgt Ion:104 Resp: 3678
Ion Ratio Lower Upper
104 100
78 50.7 41.8 62.6
103 45.7 37.0 55.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.509 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 95 Resp: 274750
Ion Ratio Lower Upper
95 100
174 61.7 50.6 76.0
175 4.6 3.8 5.6

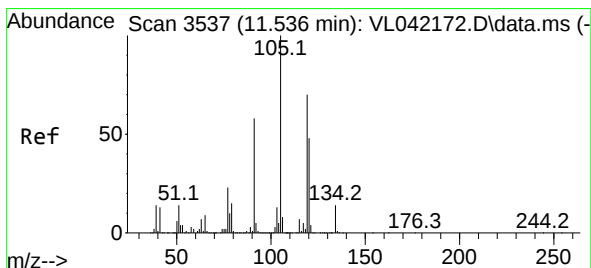
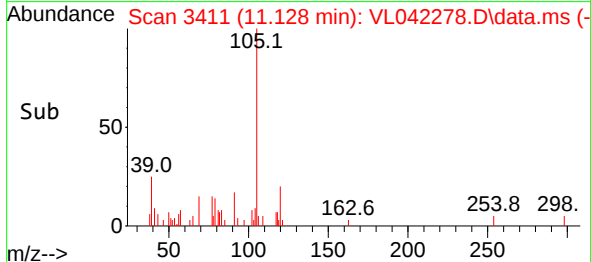
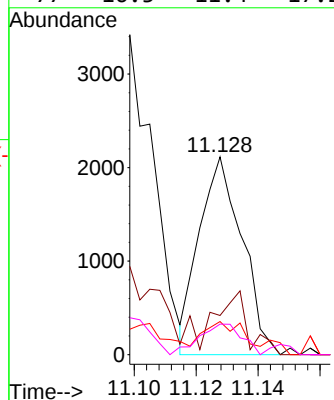
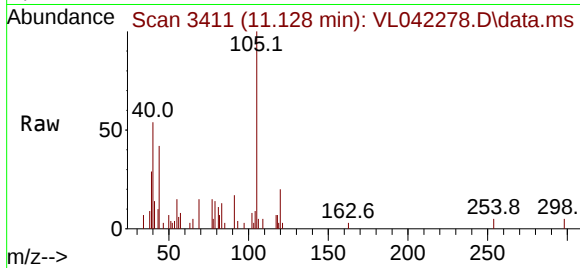




#72
4-Ethyltoluene
Concen: 0.033 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion:	105	Resp:	2034
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	21.9	10.3	15.5#
77	16.3	11.4	17.2



#74
1,2,4-Trimethylbenzene
Concen: 0.082 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion:	105	Resp:	5159
Ion	Ratio	Lower	Upper
105	100		
120	55.5	38.6	58.0
91	7.1	46.2	69.2#
77	21.2	18.6	27.8

