

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042191.D
 Acq On : 27 Mar 2025 21:57
 Operator : SY/MD
 Sample : Q1669-05 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B16-3-3262025

Quant Time: Mar 28 02:18:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

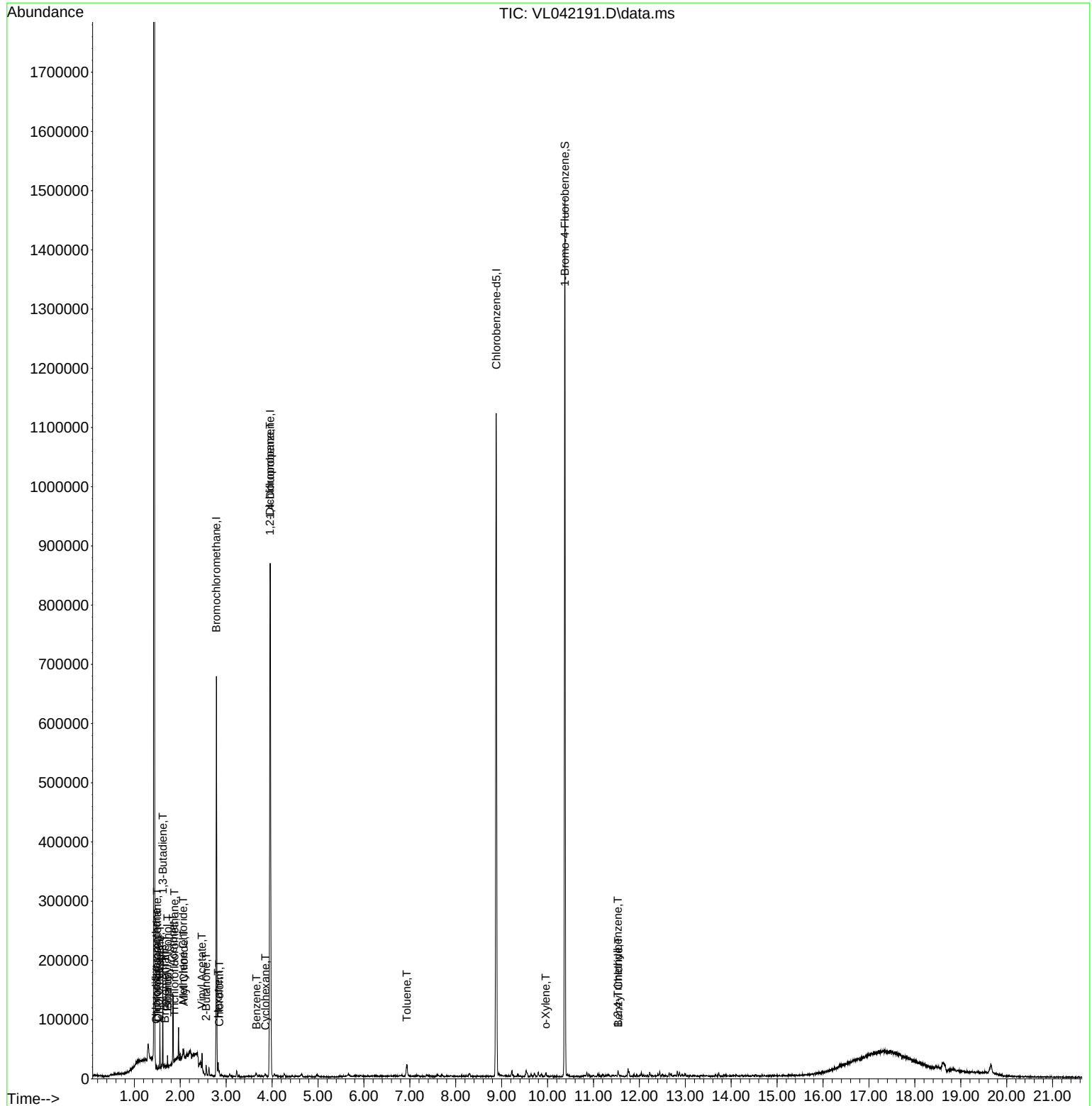
Internal Standards						
1) Bromochloromethane	2.787	49	183006	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	519492	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	470953	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	379203	9.805	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1425	0.053	ppbv #	77
3) Chlorodifluoromethane	1.473	51	1023	0.037	ppbv	97
4) Chloromethane	1.528	50	758	0.069	ppbv	97
6) Bromomethane	1.667	94	151	0.030	ppbv #	4
9) Propene	1.557	41	8956	0.708	ppbv	99
11) Trichlorofluoromethane	1.874	101	809	0.031	ppbv #	68
13) Ethanol	1.722	45	6087	5.089	ppbv #	27
15) Acetone	1.839	43	29342	1.146	ppbv #	78
16) 1,3-Butadiene	1.619	39	9382	0.751	ppbv #	21
19) Isopropyl Alcohol	1.722	45	6087	0.422	ppbv #	1
20) Methylene Chloride	2.062	84	1859	0.195	ppbv #	66
21) Allyl Chloride	2.078	41	945	0.052	ppbv #	1
23) Vinyl Acetate	2.473	43	8709	0.786	ppbv #	58
26) Hexane	2.826	57	4764	0.186	ppbv #	40
29) Chloroform	2.852	83	2868	0.076	ppbv	91
30) Cyclohexane	3.855	84	728	0.033	ppbv #	1
34) 2-Butanone	2.564	43	11529	0.306	ppbv	99
36) Benzene	3.658	78	2964	0.058	ppbv #	72
39) 1,2-Dichloropropane	3.955	63	133855	7.137	ppbv #	21
53) Toluene	6.936	91	13033	0.213	ppbv	93
60) o-Xylene	9.963	91	2628	0.039	ppbv	98
66) Benzyl Chloride	11.539	91	360	0.037	ppbv #	77
74) 1,2,4-Trimethylbenzene	11.532	105	3216	0.038	ppbv #	61

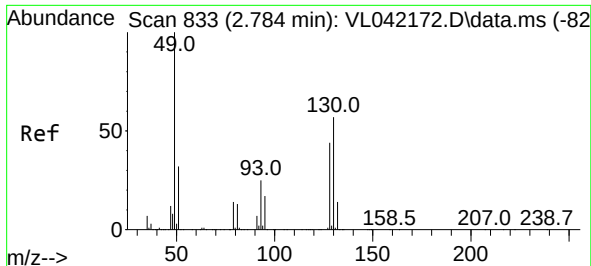
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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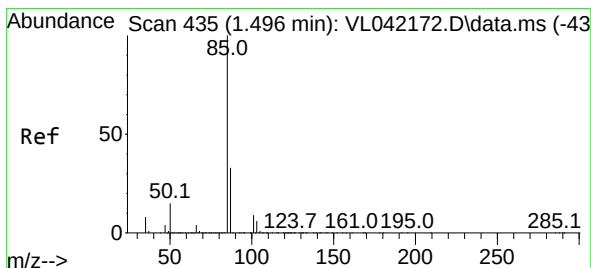
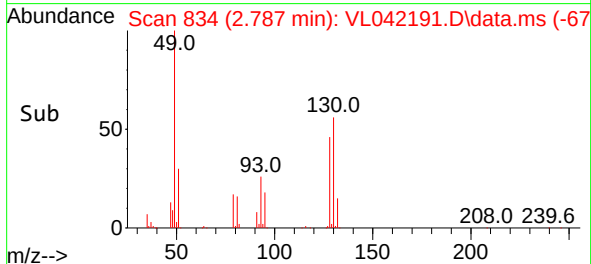
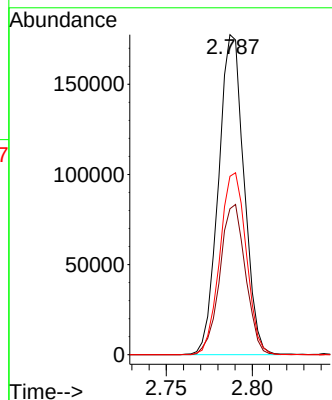
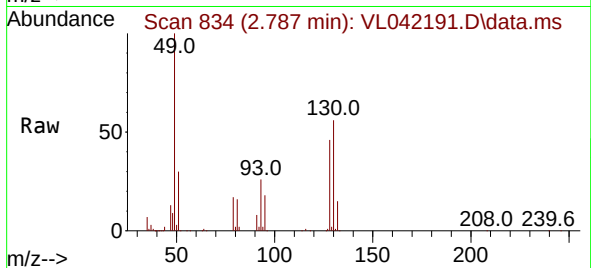




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042191.D
 Acq: 27 Mar 2025 21:57

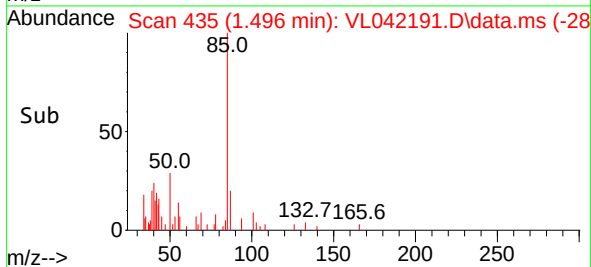
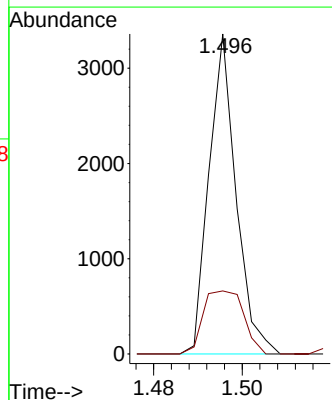
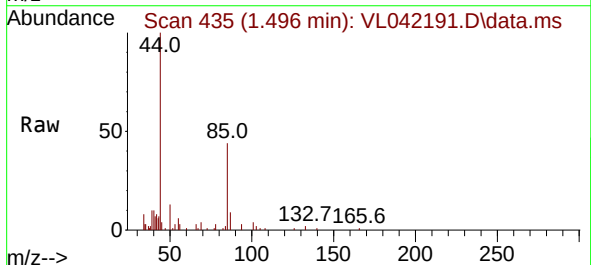
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B16-3-3262025

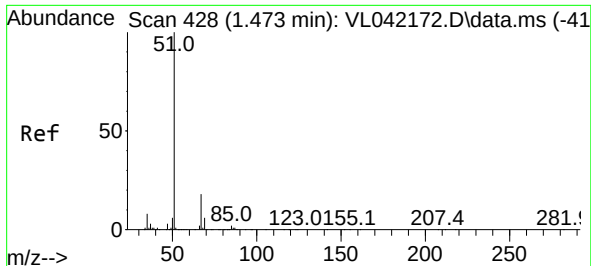
Tgt Ion: 49 Resp: 183006
 Ion Ratio Lower Upper
 49 100
 128 47.2 22.9 68.5
 130 58.8 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.053 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042191.D
 Acq: 27 Mar 2025 21:57

Tgt Ion: 85 Resp: 1425
 Ion Ratio Lower Upper
 85 100
 87 19.7 26.1 39.1#

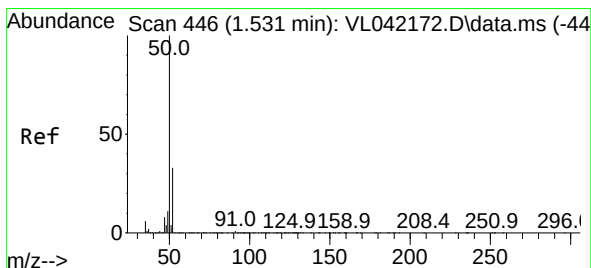
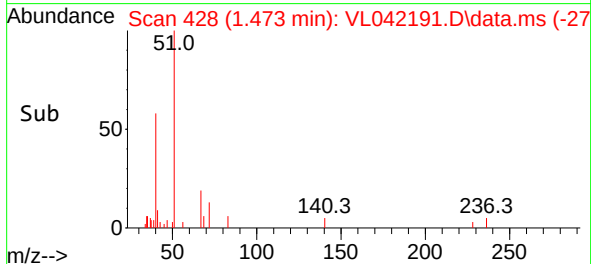
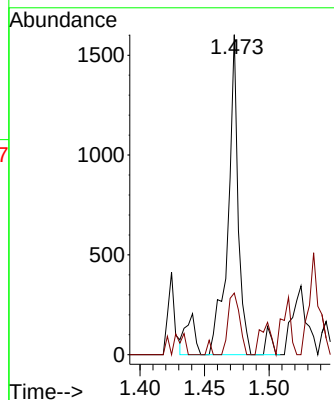
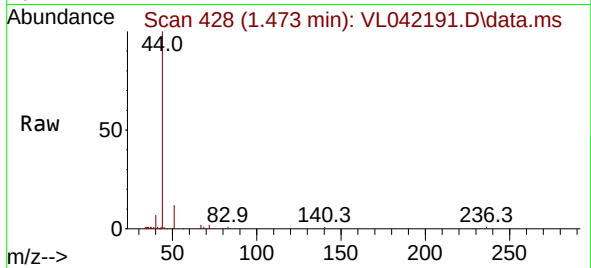




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

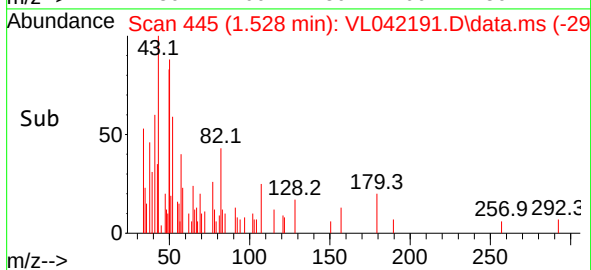
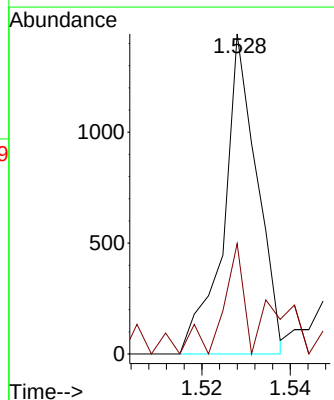
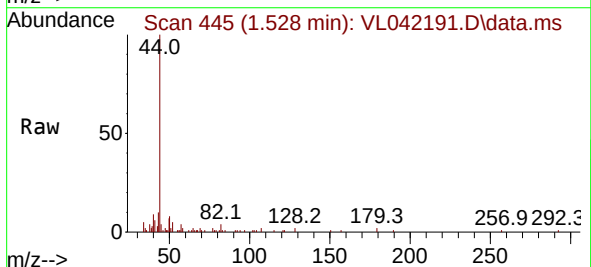
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

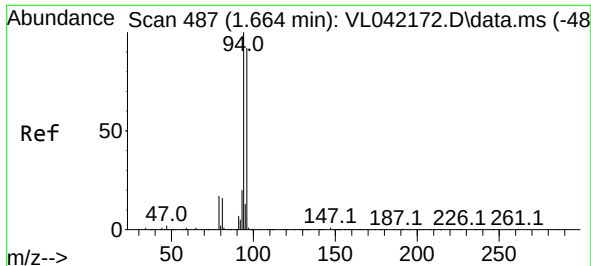
Tgt Ion: 51 Resp: 1023
Ion Ratio Lower Upper
51 100
67 19.9 15.0 22.6



#4
Chloromethane
Concen: 0.069 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 50 Resp: 758
Ion Ratio Lower Upper
50 100
52 34.5 26.1 39.1

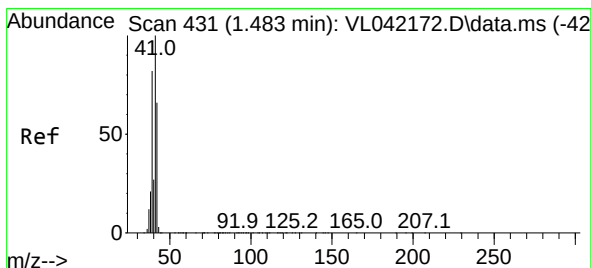
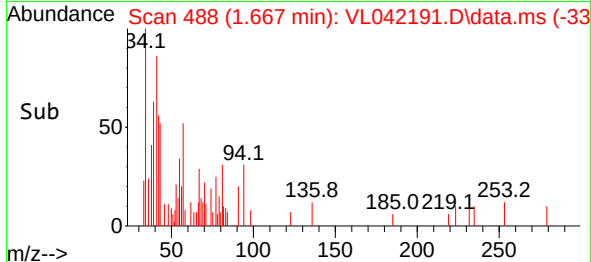
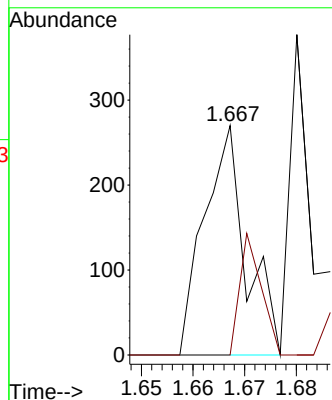
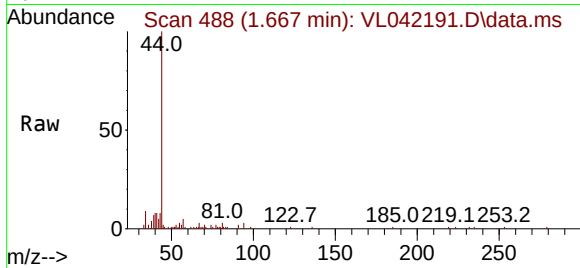




#6
Bromomethane
Concen: 0.030 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

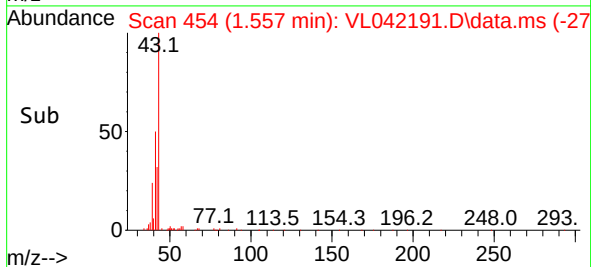
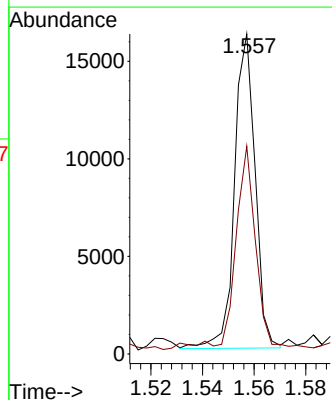
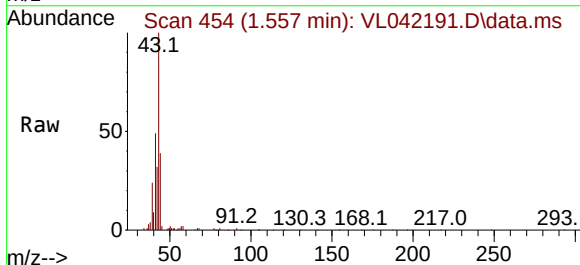
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B16-3-3262025

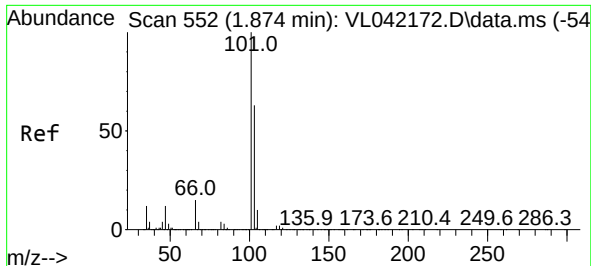
Tgt Ion: 94 Resp: 151
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#9
Propene
Concen: 0.708 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 41 Resp: 8956
Ion Ratio Lower Upper
41 100
42 68.5 55.4 83.2

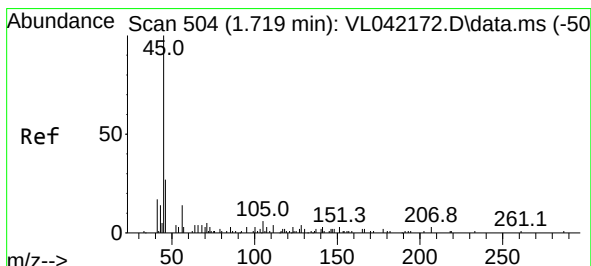
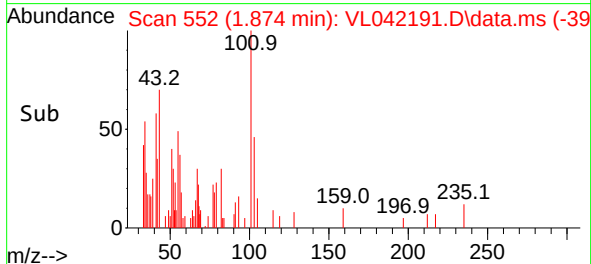
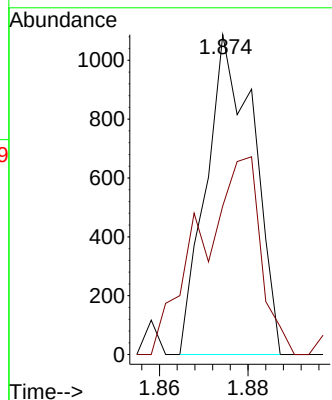
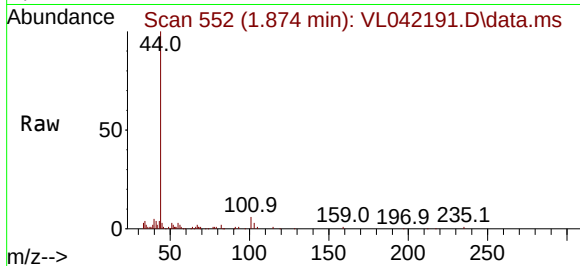




#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.874 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

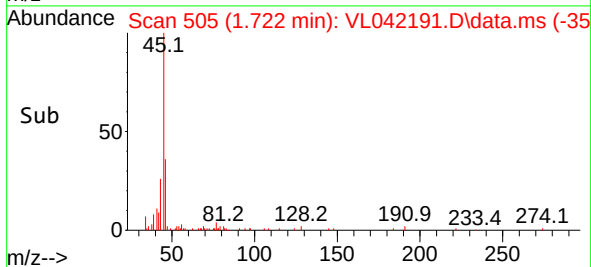
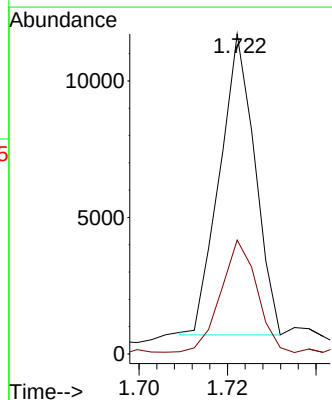
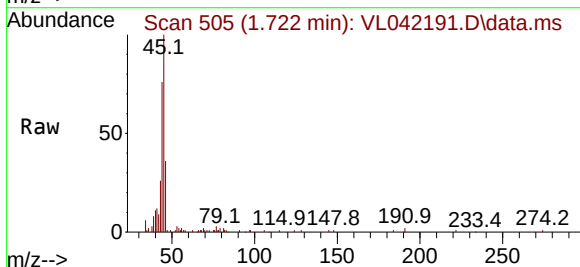
Instrument :
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ClientSampleId :
SSSG-B16-3-3262025

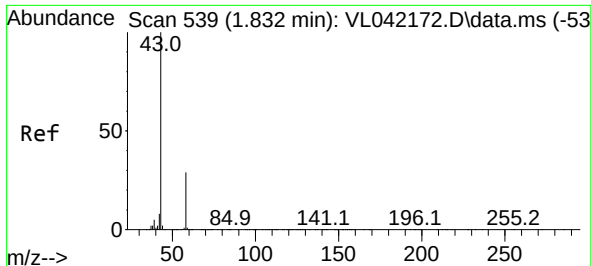
Tgt Ion:101 Resp: 809
Ion Ratio Lower Upper
101 100
103 37.7 50.2 75.2#



#13
Ethanol
Concen: 5.089 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 45 Resp: 6087
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#

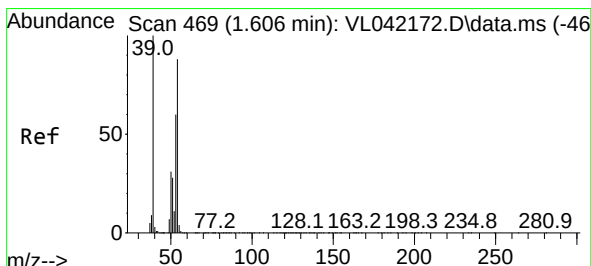
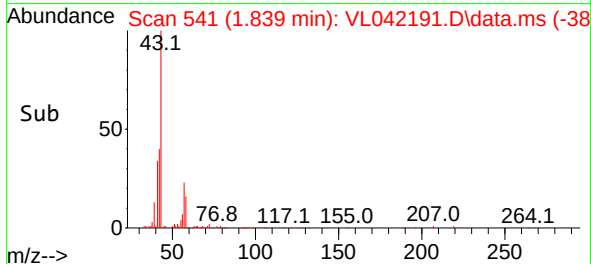
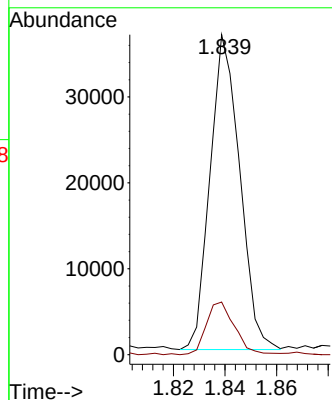
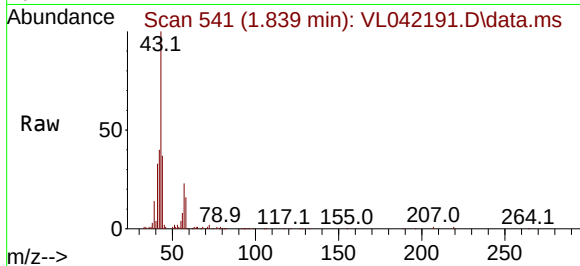




#15
Acetone
Concen: 1.146 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

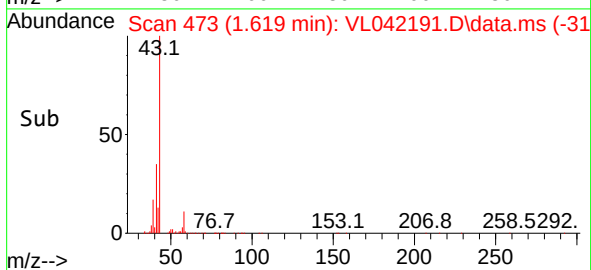
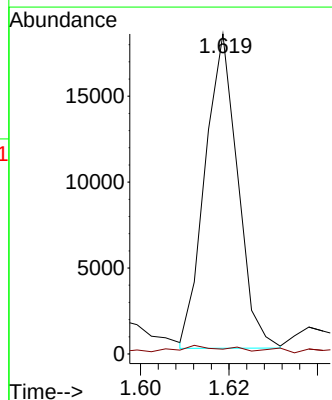
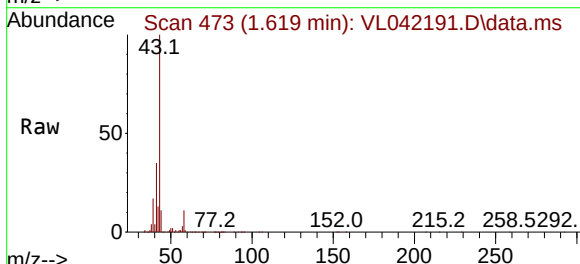
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ClientSampleId :
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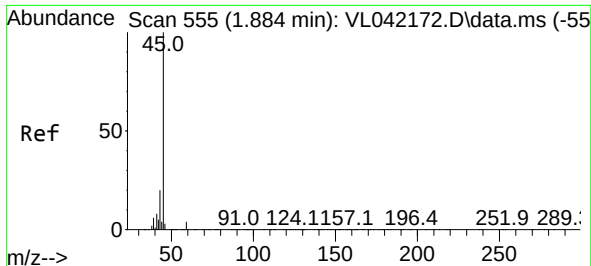
Tgt Ion: 43 Resp: 29342
Ion Ratio Lower Upper
43 100
58 17.3 23.2 34.8#



#16
1,3-Butadiene
Concen: 0.751 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 39 Resp: 9382
Ion Ratio Lower Upper
39 100
54 8.1 60.7 91.1#





#19

Isopropyl Alcohol

Concen: 0.422 ppbv

RT: 1.722 min Scan# 50

Delta R.T. -0.162 min

Lab File: VL042191.D

Acq: 27 Mar 2025 21:57

Instrument :

MSVOA_1

ClientSampleId :

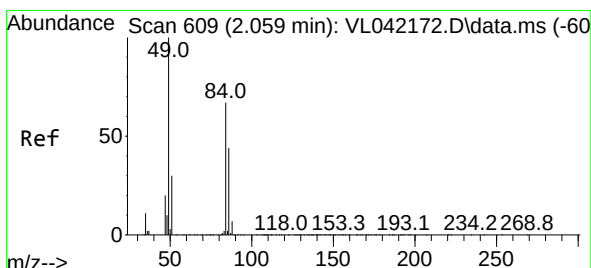
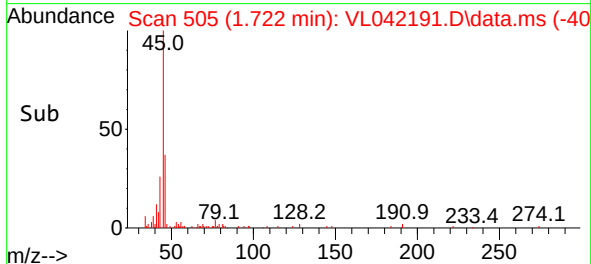
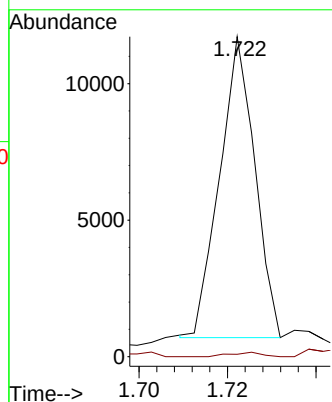
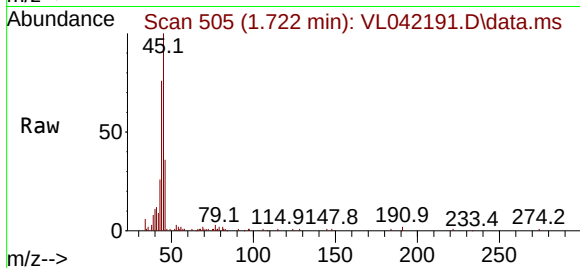
SSSG-B16-3-3262025

Tgt Ion: 45 Resp: 6087

Ion Ratio Lower Upper

45 100

58 115.4 36.9 55.3#



#20

Methylene Chloride

Concen: 0.195 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042191.D

Acq: 27 Mar 2025 21:57

Tgt Ion: 84 Resp: 1859

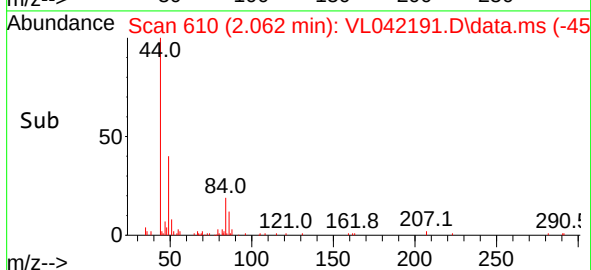
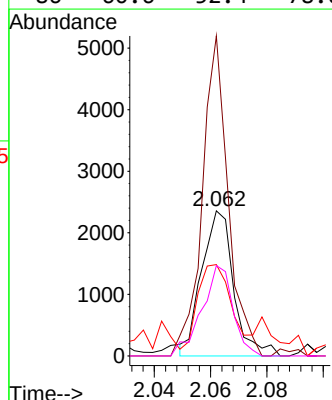
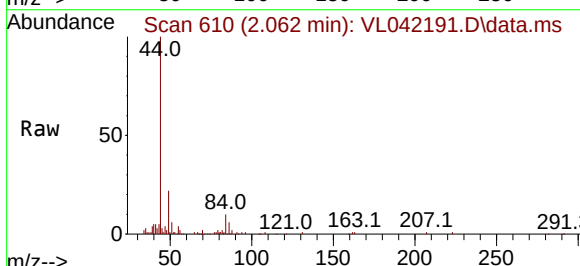
Ion Ratio Lower Upper

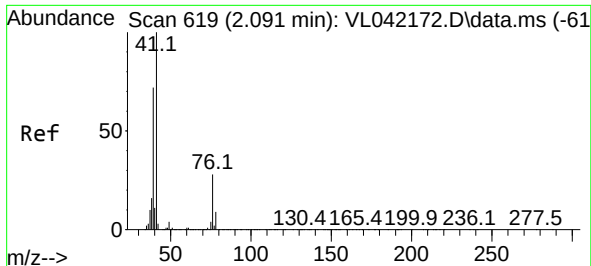
84 100

49 216.5 120.2 180.4#

51 56.8 37.4 56.0#

86 60.6 52.4 78.6

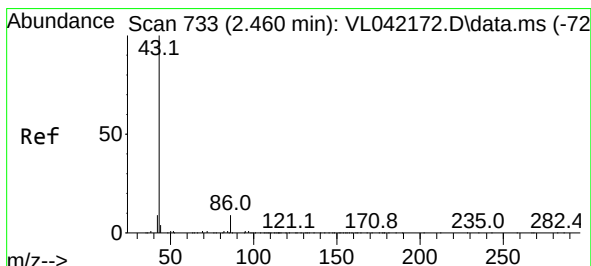
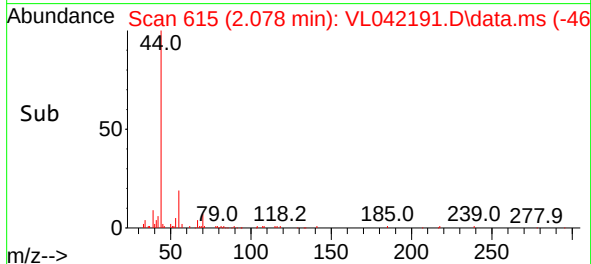
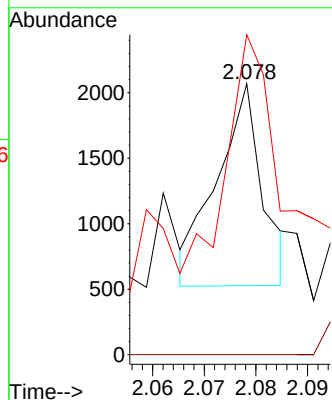
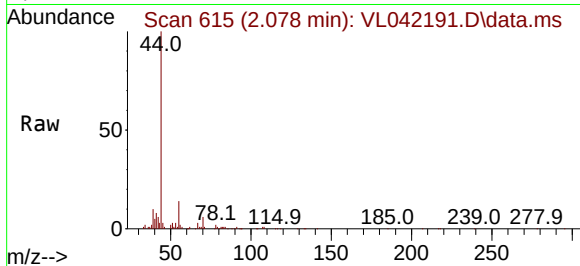




#21
 Allyl Chloride
 Concen: 0.052 ppbv
 RT: 2.078 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL042191.D
 Acq: 27 Mar 2025 21:57

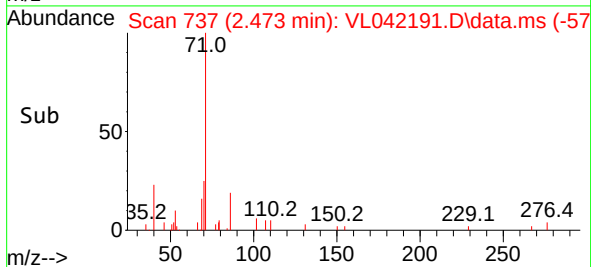
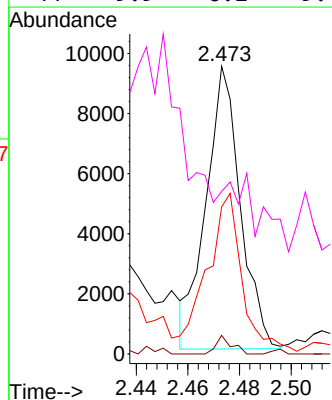
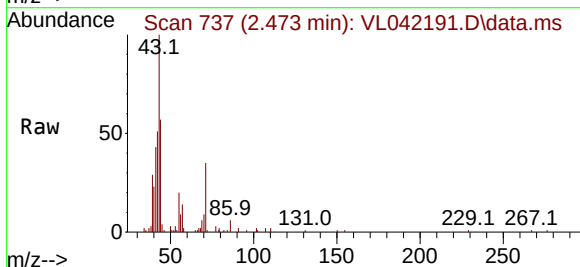
Instrument :
 MSVOA_L
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 SSSG-B16-3-3262025

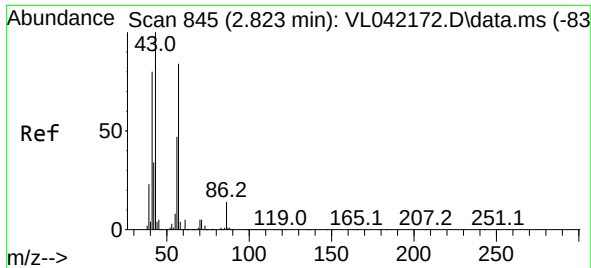
Tgt Ion: 41 Resp: 945
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.1 36.1#
 39 318.7 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.786 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.013 min
 Lab File: VL042191.D
 Acq: 27 Mar 2025 21:57

Tgt Ion: 43 Resp: 8709
 Ion Ratio Lower Upper
 43 100
 86 6.7 5.5 8.3
 42 46.2 8.6 13.0#
 44 9.9 6.2 9.4#

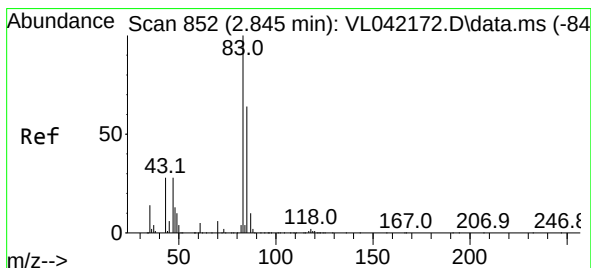
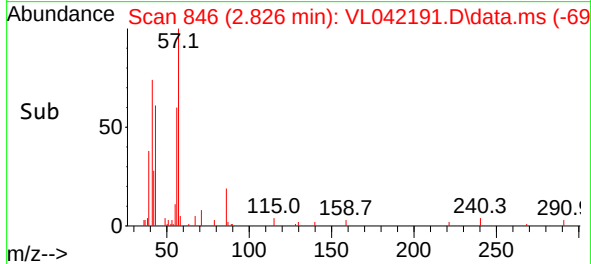
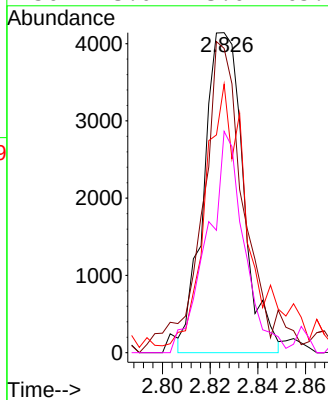
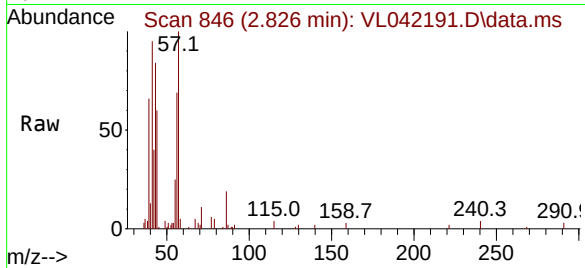




#26
Hexane
Concen: 0.186 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

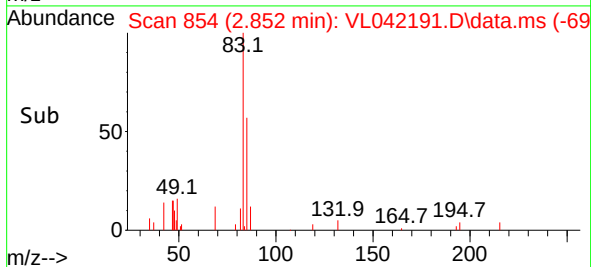
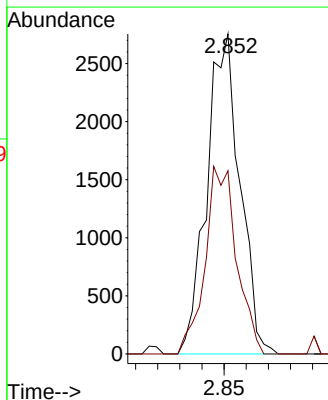
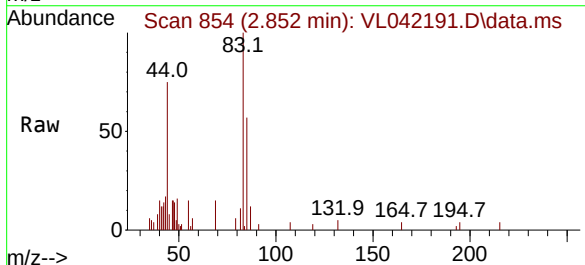
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

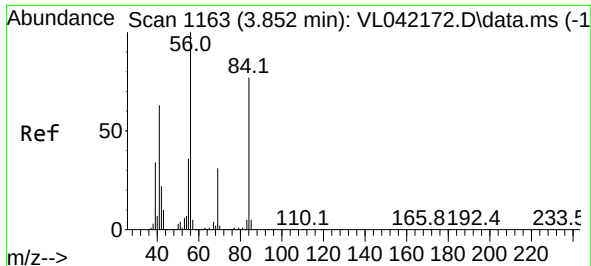
Tgt Ion: 57	Resp: 4764
Ion Ratio	Lower Upper
57 100	
41 109.6	76.6 114.8
43 109.9	207.8 311.8#
56 73.0	43.6 65.4#



#29
Chloroform
Concen: 0.076 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 83	Resp: 2868
Ion Ratio	Lower Upper
83 100	
85 57.2	51.4 77.2

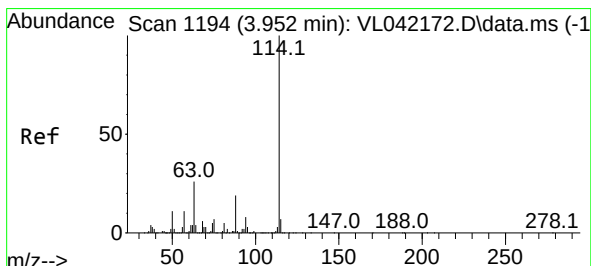
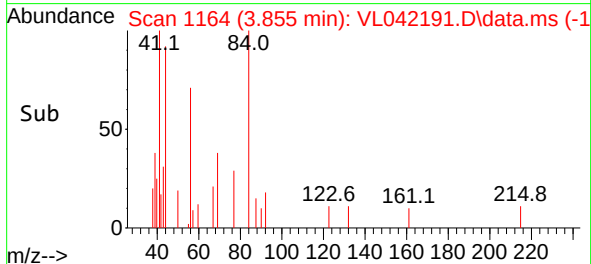
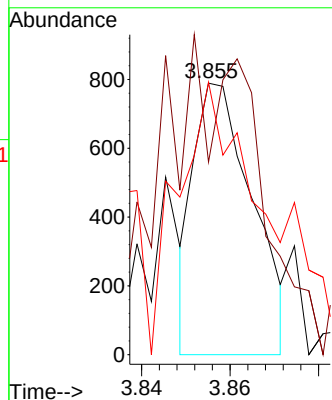
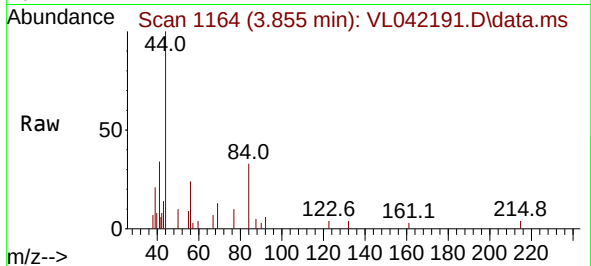




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 3.855 min Scan# 1163
Delta R.T. 0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

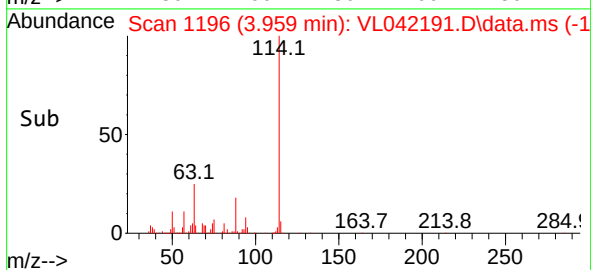
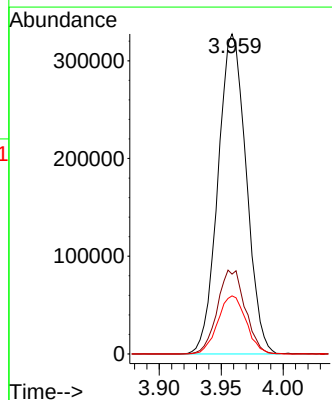
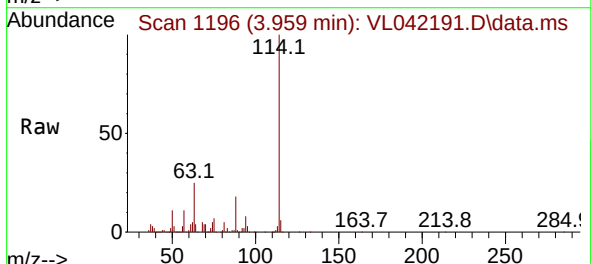
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

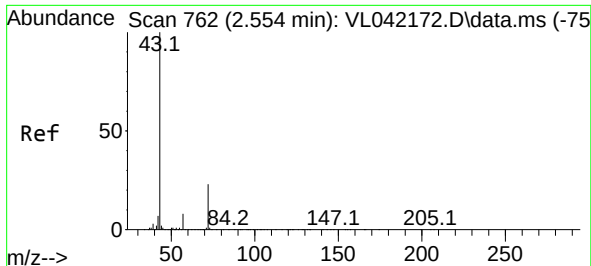
Tgt Ion: 84 Resp: 728
Ion Ratio Lower Upper
84 100
56 198.2 102.8 154.2#
41 285.3 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 114 Resp: 519492
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.2 15.0 22.4

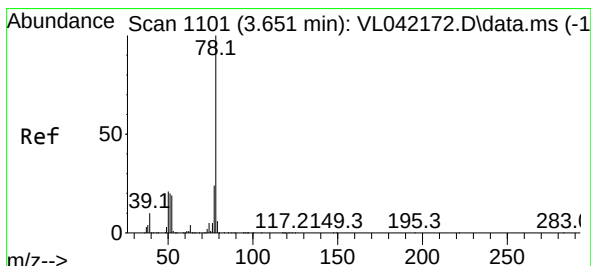
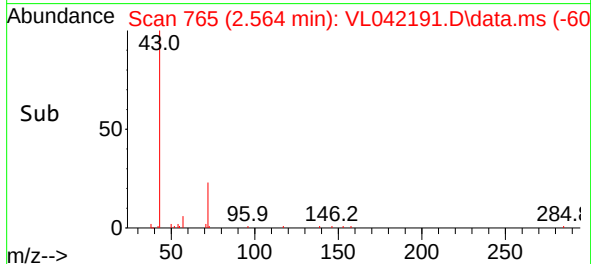
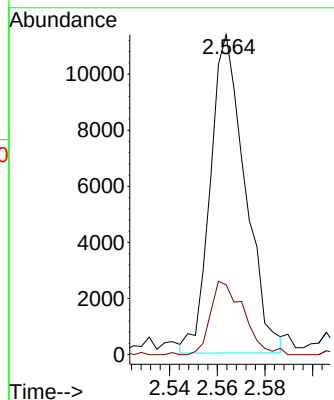
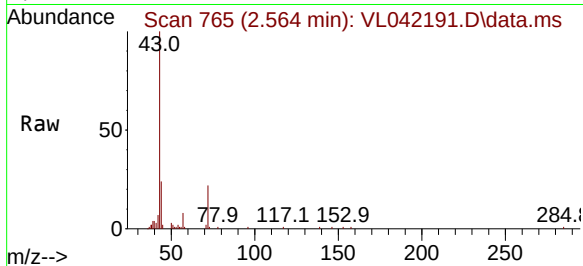




#34
2-Butanone
Concen: 0.306 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

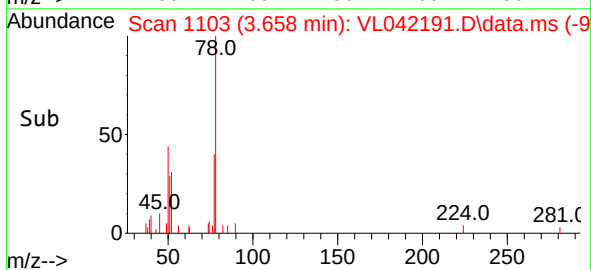
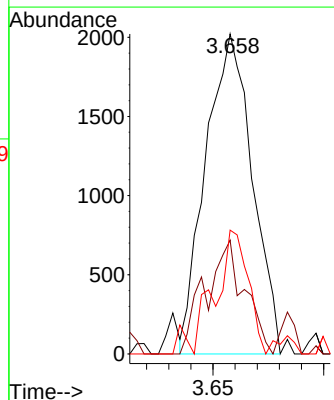
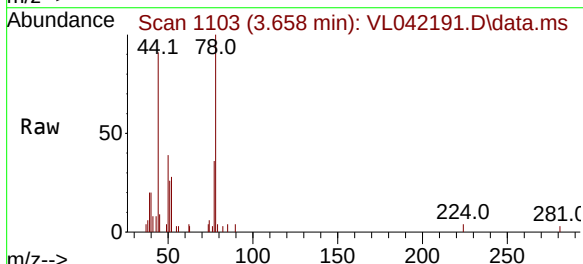
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

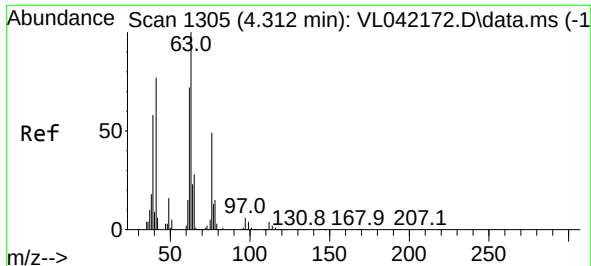
Tgt Ion: 43 Resp: 11529
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2



#36
Benzene
Concen: 0.058 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 78 Resp: 2964
Ion Ratio Lower Upper
78 100
77 35.5 19.1 28.7#
50 35.7 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.137 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042191.D

Acq: 27 Mar 2025 21:57

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-3-3262025

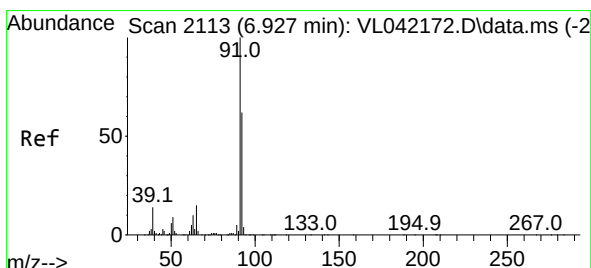
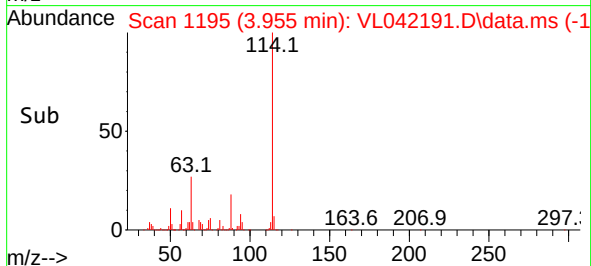
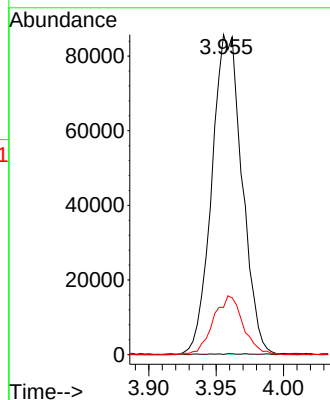
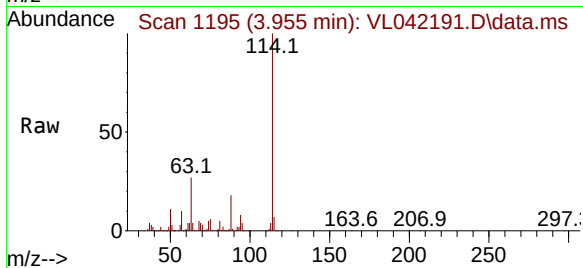
Tgt Ion: 63 Resp: 133855

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 14.7 57.6 86.4#



#53

Toluene

Concen: 0.213 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.010 min

Lab File: VL042191.D

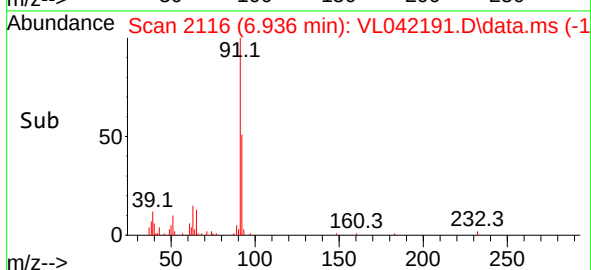
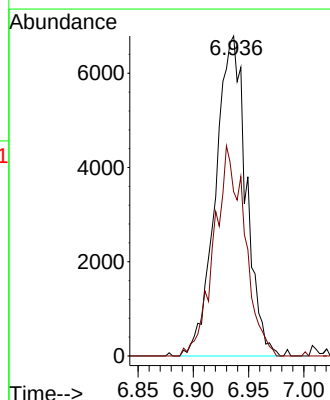
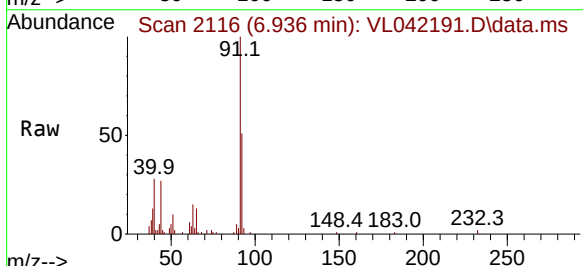
Acq: 27 Mar 2025 21:57

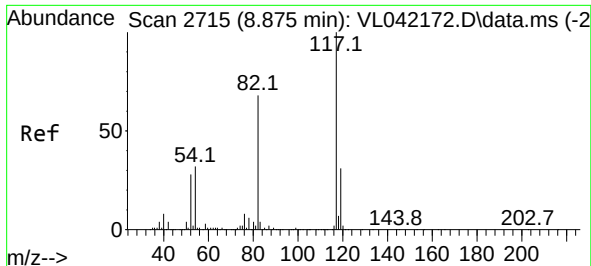
Tgt Ion: 91 Resp: 13033

Ion Ratio Lower Upper

91 100

92 66.0 48.4 72.6

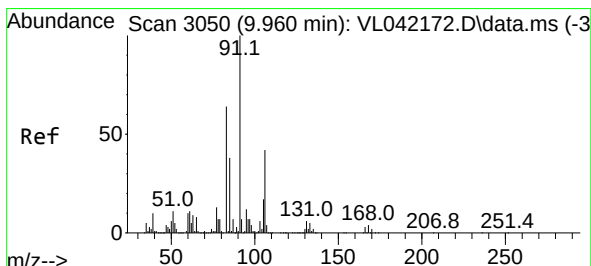
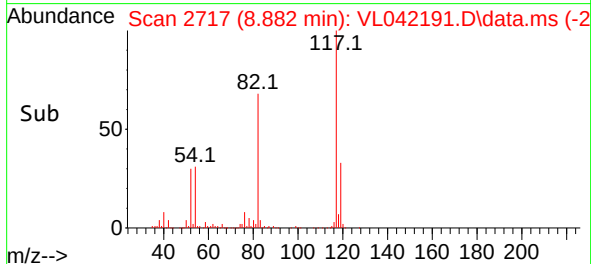
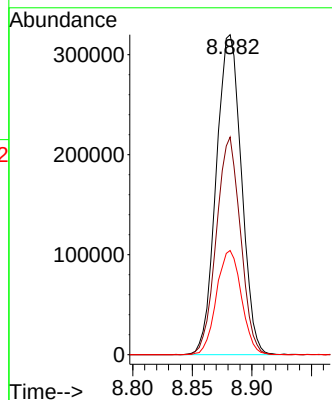
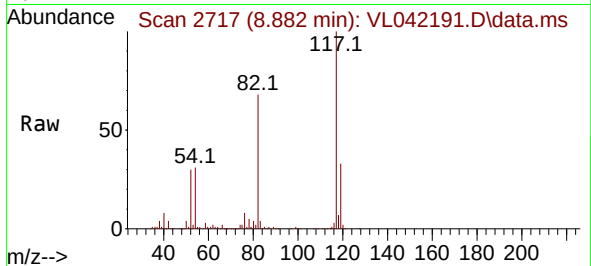




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

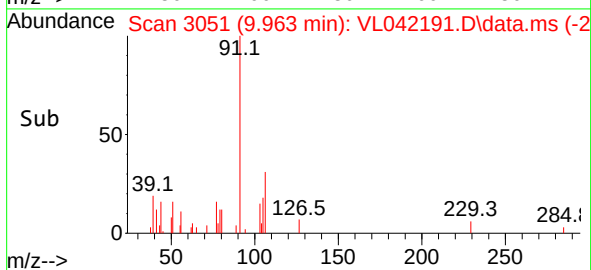
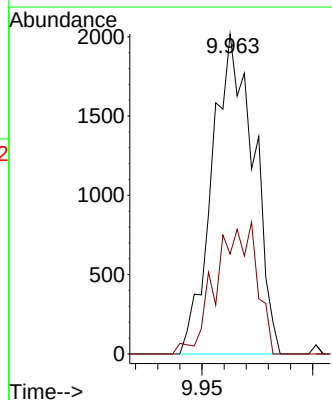
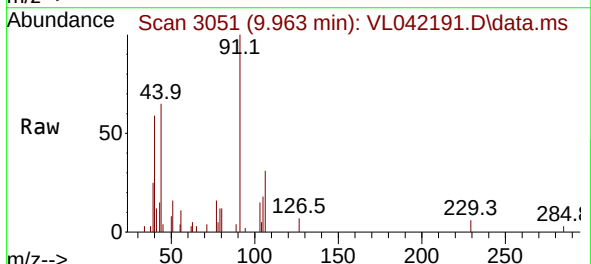
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

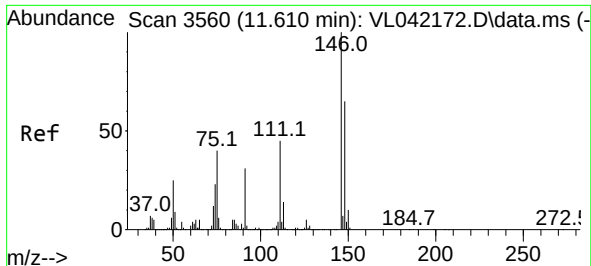
Tgt Ion:117 Resp: 470953
Ion Ratio Lower Upper
117 100
82 65.1 55.8 83.6
119 32.3 25.5 38.3



#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 91 Resp: 2628
Ion Ratio Lower Upper
91 100
106 40.1 20.8 62.5

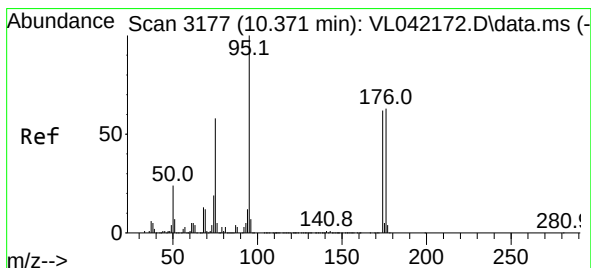
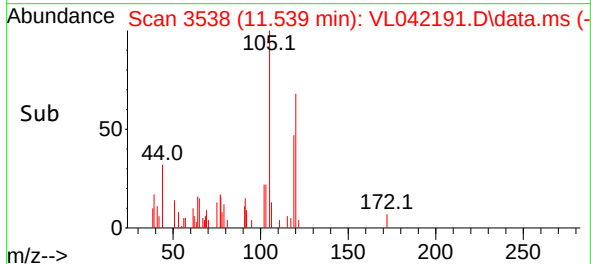
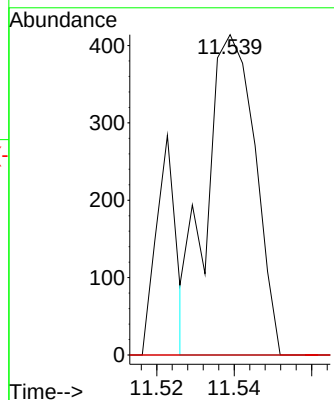
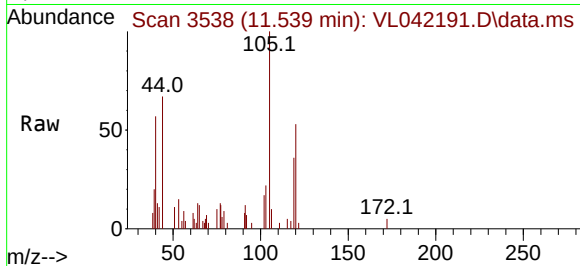




#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 11.539 min Scan# 3179
Delta R.T. -0.071 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

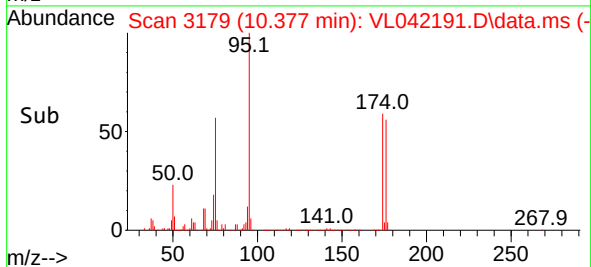
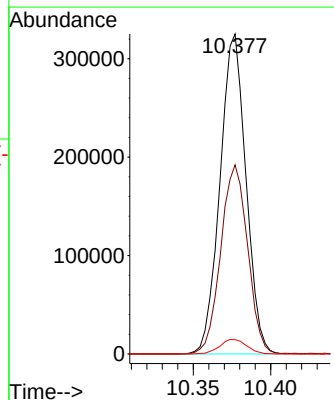
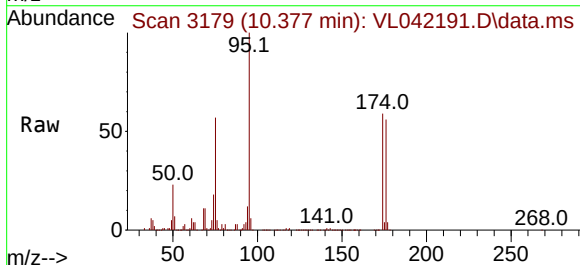
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-3-3262025

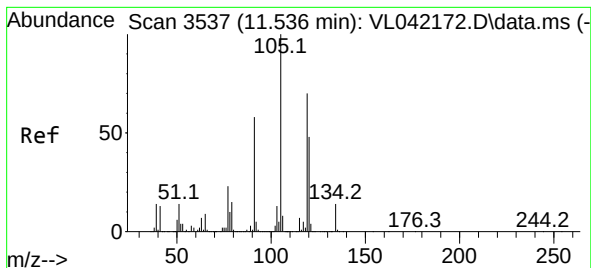
Tgt Ion: 91 Resp: 360
Ion Ratio Lower Upper
91 100
126 6.4 13.8 20.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.805 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042191.D
Acq: 27 Mar 2025 21:57

Tgt Ion: 95 Resp: 379203
Ion Ratio Lower Upper
95 100
174 61.1 50.6 76.0
175 4.7 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.038 ppbv

RT: 11.532 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042191.D

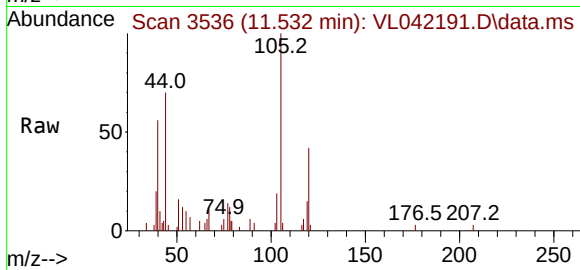
Acq: 27 Mar 2025 21:57

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-3-3262025



Tgt Ion:105 Resp: 3216

Ion Ratio Lower Upper

105 100

120 44.5 38.6 58.0

91 4.1 46.2 69.2#

77 11.0 18.6 27.8#

