

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042241.D
 Acq On : 07 Apr 2025 20:19
 Operator : SY/MD
 Sample : Q1725-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-1-03312025-SPLITDL

Quant Time: Apr 08 01:35:14 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)

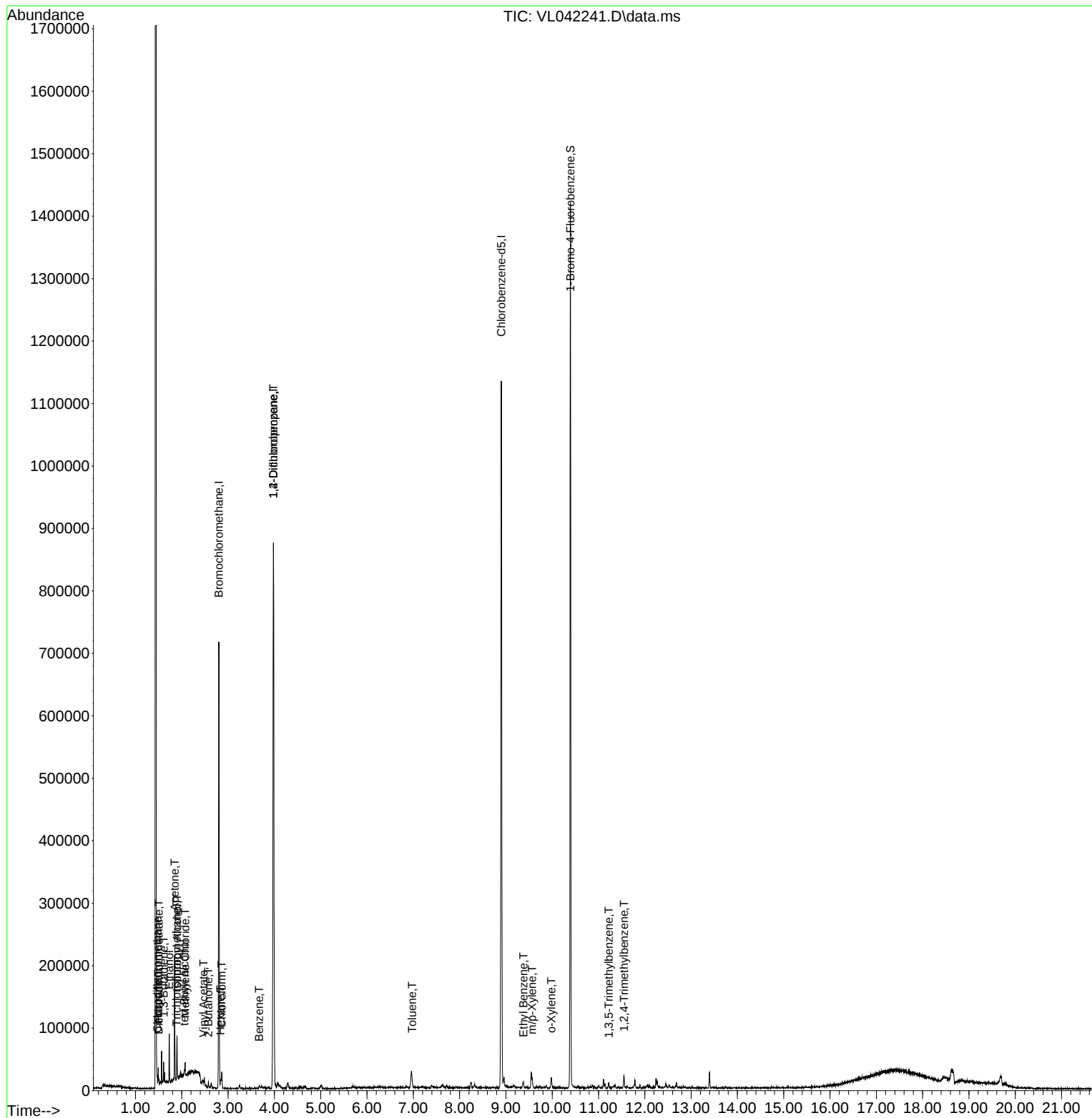
Internal Standards						
1) Bromochloromethane	2.800	49	193361	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	501287	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	435889	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	342674	9.573	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1454	0.051	ppbv #	85
3) Chlorodifluoromethane	1.473	51	2614	0.090	ppbv #	66
9) Propene	1.492	41	2464	0.184	ppbv	96
11) Trichlorofluoromethane	1.887	101	873	0.031	ppbv	94
13) Ethanol	1.729	45	24715	19.557	ppbv	88
15) Acetone	1.845	43	86496	3.199	ppbv	92
16) 1,3-Butadiene	1.609	39	4147	0.314	ppbv #	22
17) tert-Butyl alcohol	2.056	59	2967	0.088	ppbv #	65
19) Isopropyl Alcohol	1.897	45	27725	1.817	ppbv #	36
20) Methylene Chloride	2.072	84	2831	0.281	ppbv	97
23) Vinyl Acetate	2.467	43	2686	0.229	ppbv #	51
26) Hexane	2.836	57	2231	0.082	ppbv #	44
29) Chloroform	2.862	83	10048	0.253	ppbv #	79
34) 2-Butanone	2.573	43	5926	0.163	ppbv	99
36) Benzene	3.671	78	1744	0.035	ppbv #	87
39) 1,2-Dichloropropane	3.978	63	130609	7.217	ppbv #	22
53) Toluene	6.972	91	3522	0.060	ppbv #	20
58) Ethyl Benzene	9.377	91	5155	0.067	ppbv	96
59) m/p-Xylene	9.565	91	4633	0.075	ppbv #	31
60) o-Xylene	9.982	91	7313	0.118	ppbv	96
73) 1,3,5-Trimethylbenzene	11.219	105	2306	0.034	ppbv	87
74) 1,2,4-Trimethylbenzene	11.552	105	7104	0.091	ppbv #	61

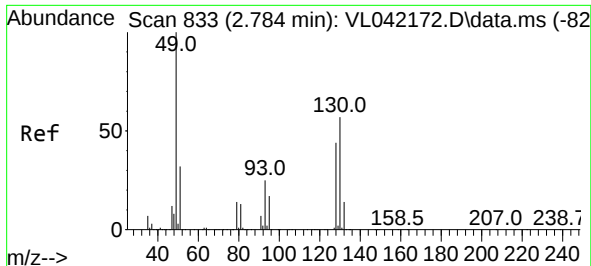
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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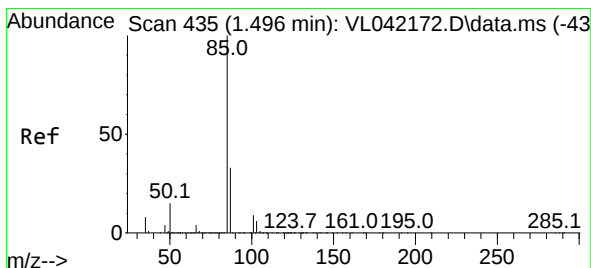
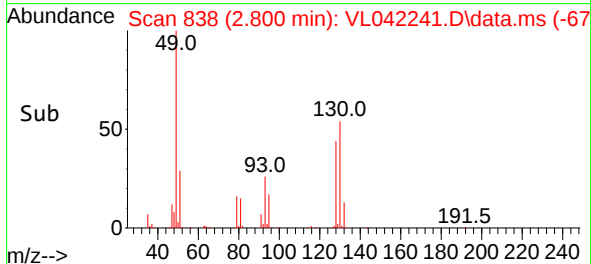
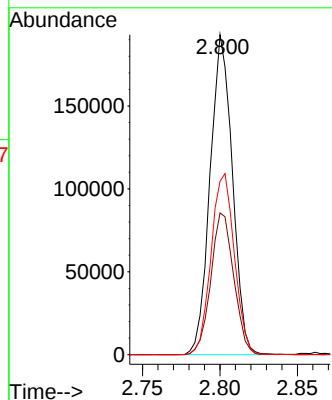
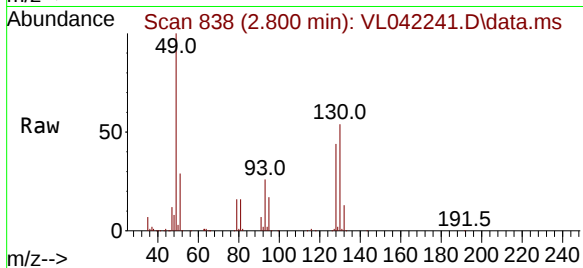




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

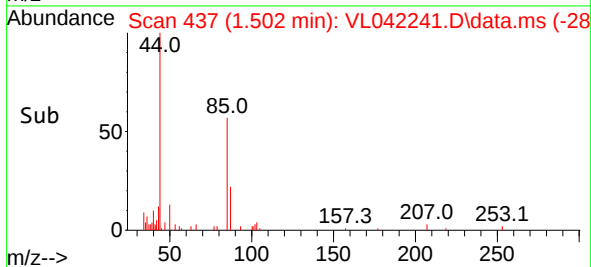
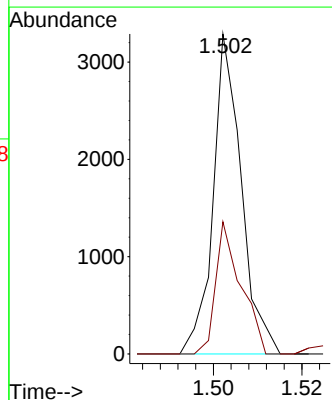
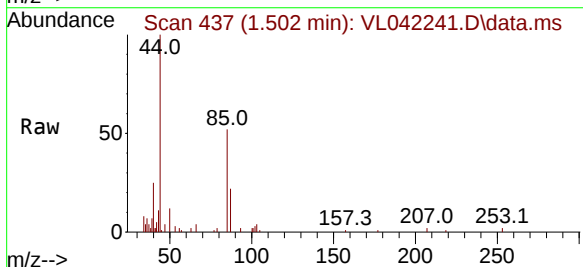
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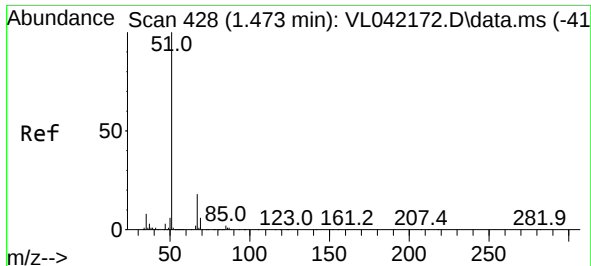
Tgt Ion: 49 Resp: 193361
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 59.2 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.051 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 85 Resp: 1454
Ion Ratio Lower Upper
85 100
87 41.3 26.1 39.1#

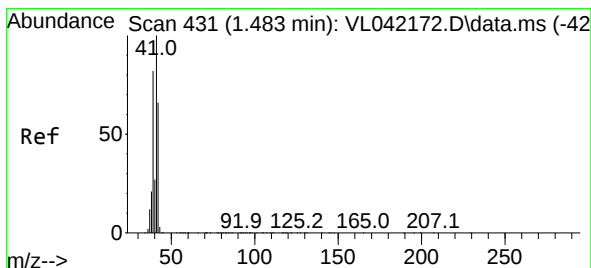
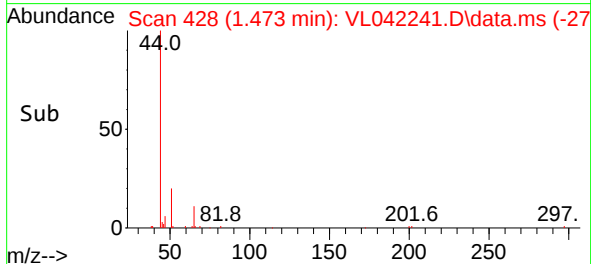
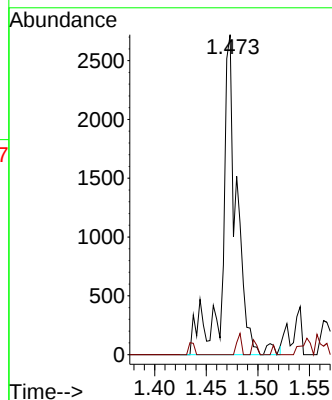
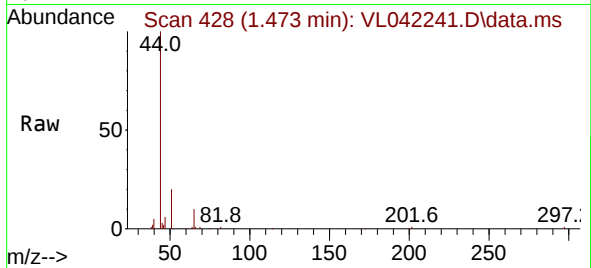




#3
Chlorodifluoromethane
Concen: 0.090 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

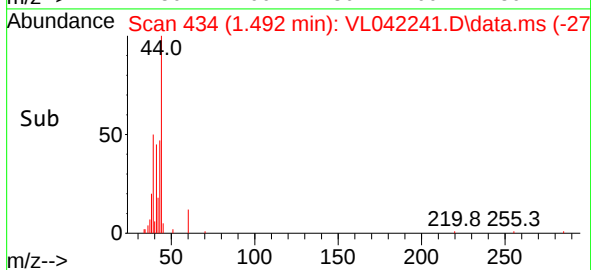
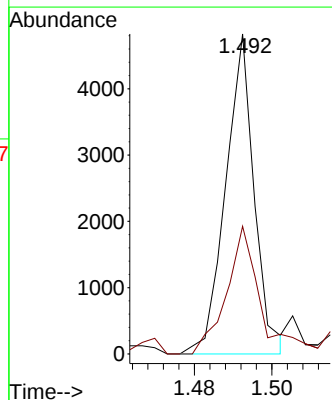
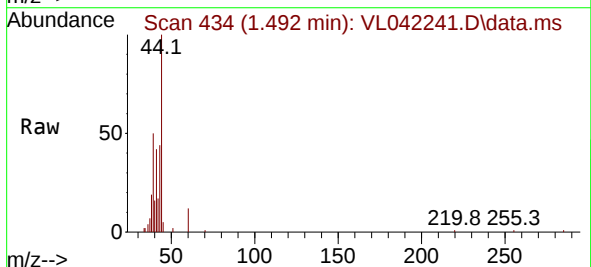
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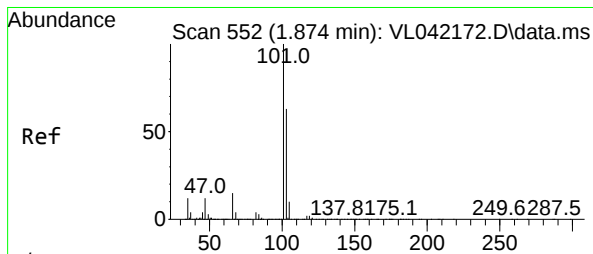
Tgt Ion: 51 Resp: 2614
Ion Ratio Lower Upper
51 100
67 3.6 15.0 22.6#



#9
Propene
Concen: 0.184 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 41 Resp: 2464
Ion Ratio Lower Upper
41 100
42 66.0 55.4 83.2

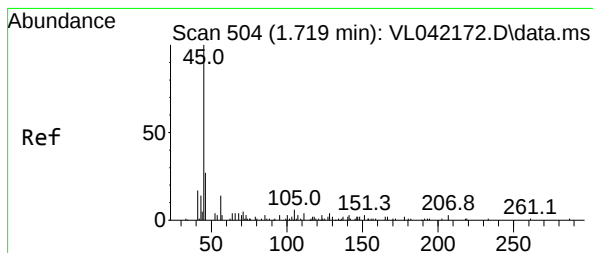
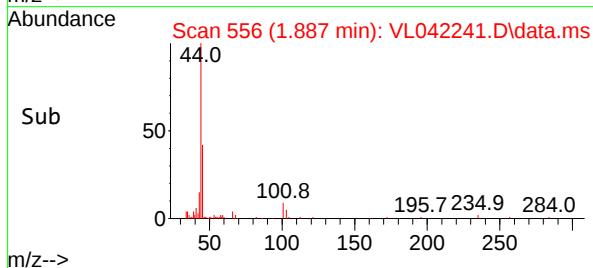
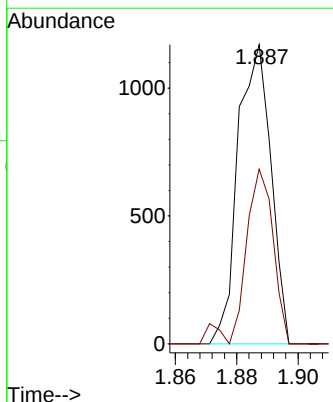
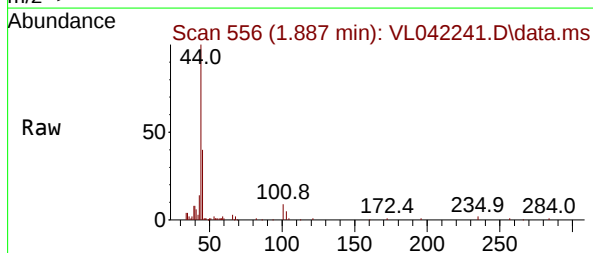




#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

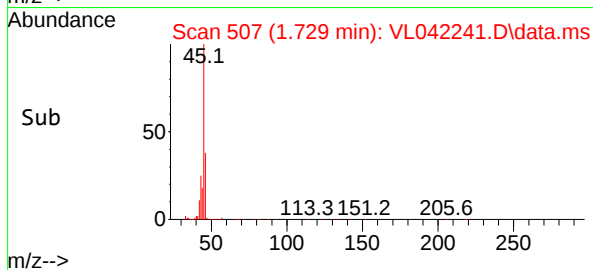
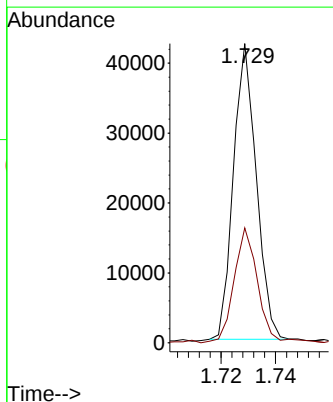
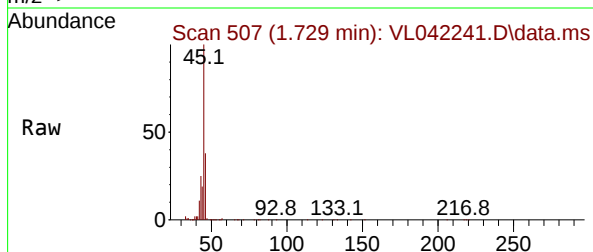
Instrument :
MSVOA_L
ClientSampleId :
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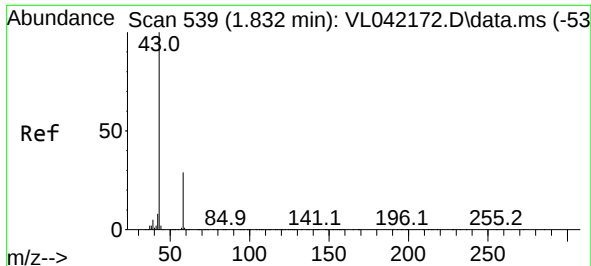
Tgt Ion: 101 Resp: 873
Ion Ratio Lower Upper
101 100
103 58.4 50.2 75.2



#13
Ethanol
Concen: 19.557 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 45 Resp: 24715
Ion Ratio Lower Upper
45 100
46 42.1 20.2 80.8

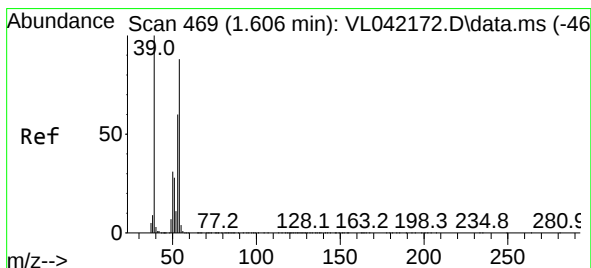
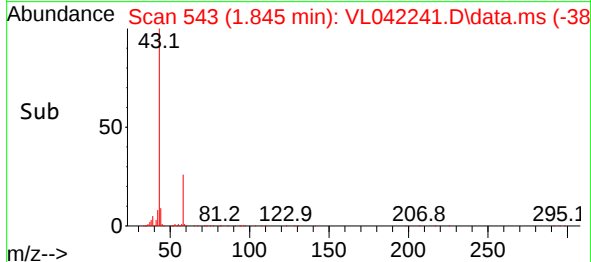
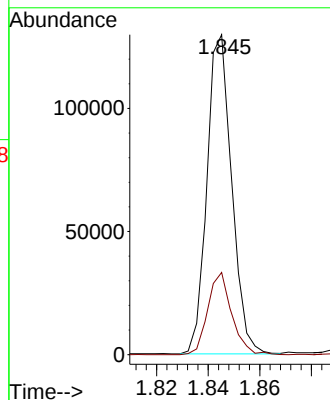
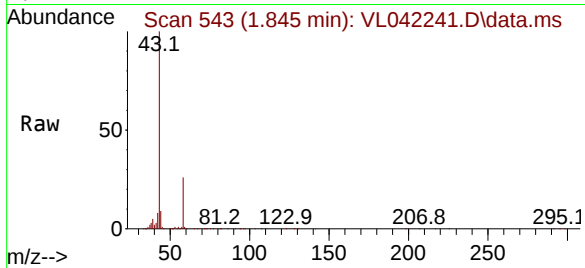




#15
Acetone
Concen: 3.199 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

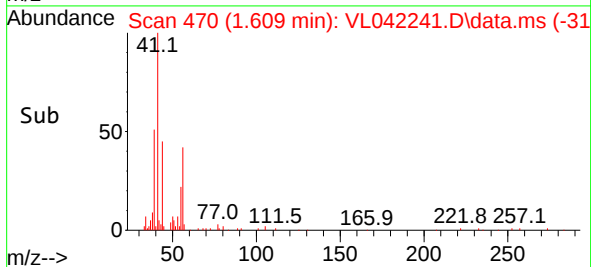
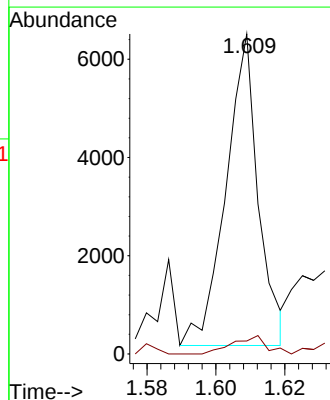
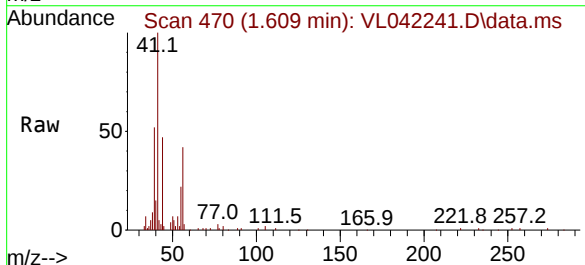
Instrument :
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ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

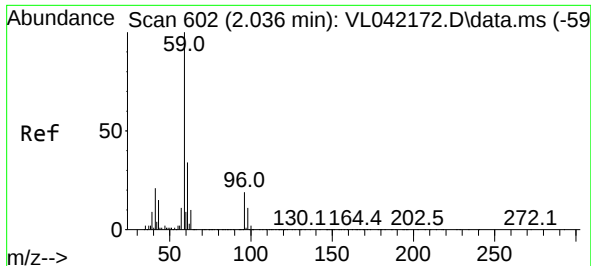
Tgt Ion: 43 Resp: 86496
Ion Ratio Lower Upper
43 100
58 24.9 23.2 34.8



#16
1,3-Butadiene
Concen: 0.314 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 39 Resp: 4147
Ion Ratio Lower Upper
39 100
54 8.8 60.7 91.1#

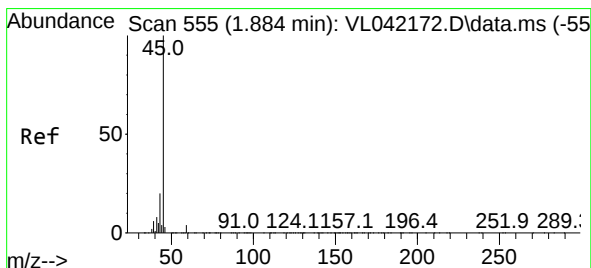
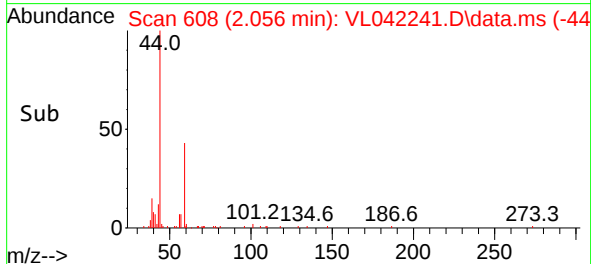
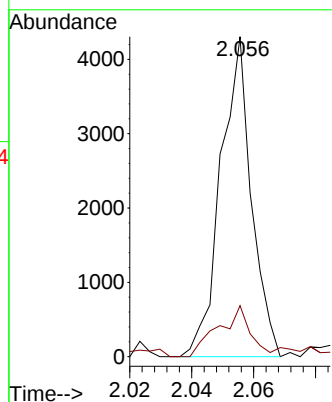
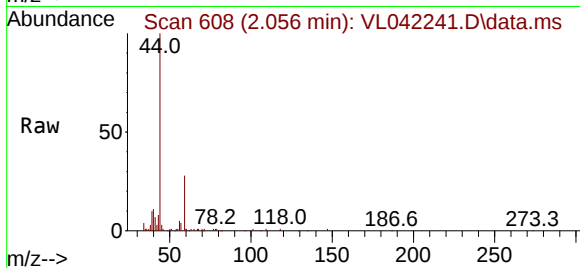




#17
tert-Butyl alcohol
Concen: 0.088 ppbv
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

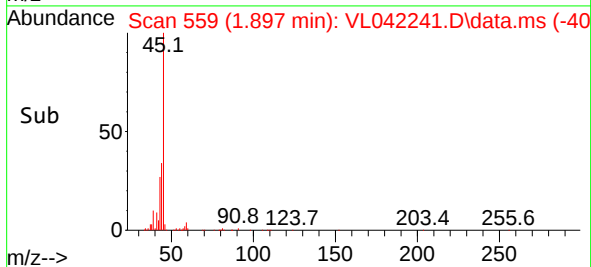
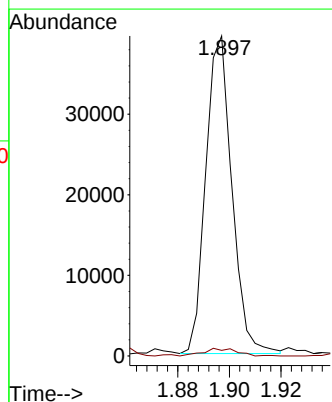
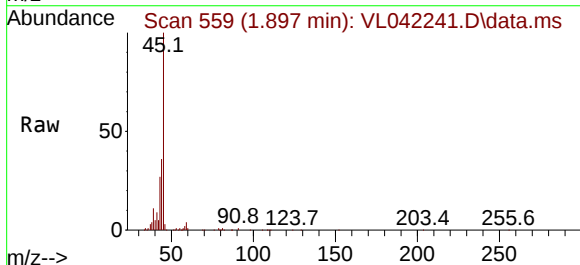
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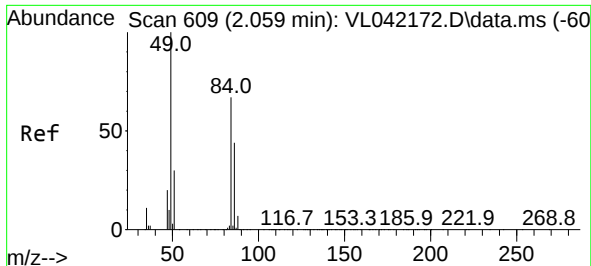
Tgt Ion: 59 Resp: 2967
Ion Ratio Lower Upper
59 100
57 24.3 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 1.817 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 45 Resp: 27725
Ion Ratio Lower Upper
45 100
58 3.6 36.9 55.3#





#20

Methylene Chloride

Concen: 0.281 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042241.D

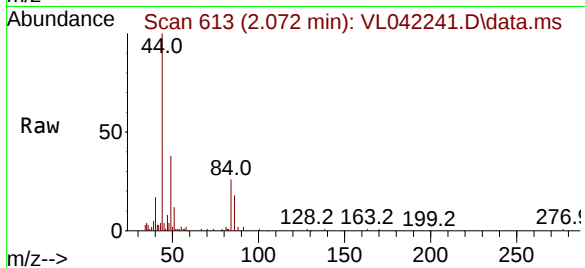
Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLITDL



Tgt Ion: 84 Resp: 2831

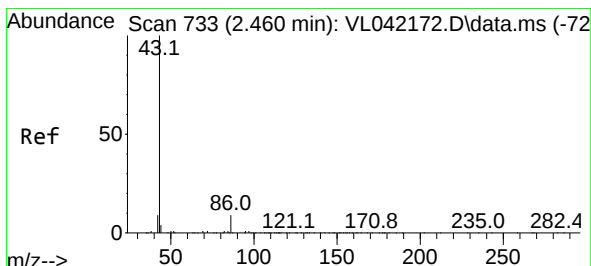
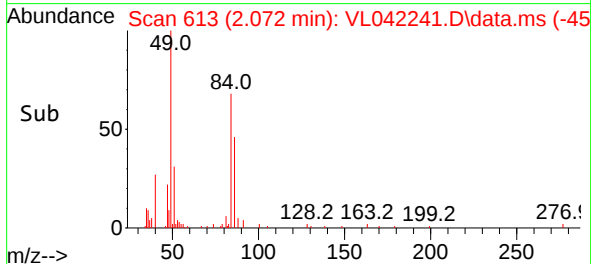
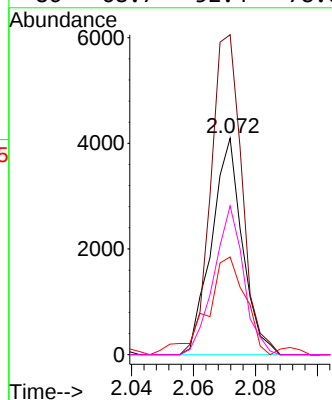
Ion Ratio Lower Upper

84 100

49 147.8 120.2 180.4

51 42.5 37.4 56.0

86 68.7 52.4 78.6



#23

Vinyl Acetate

Concen: 0.229 ppbv

RT: 2.467 min Scan# 735

Delta R.T. 0.006 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Tgt Ion: 43 Resp: 2686

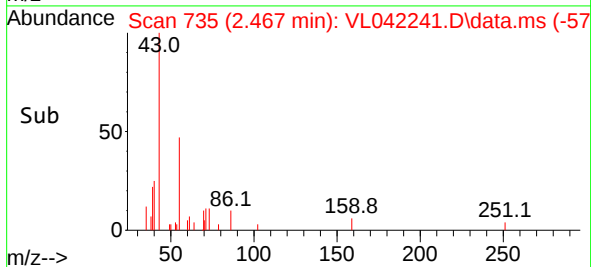
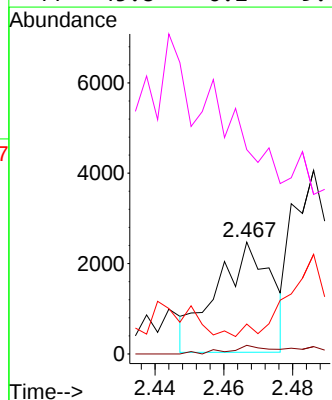
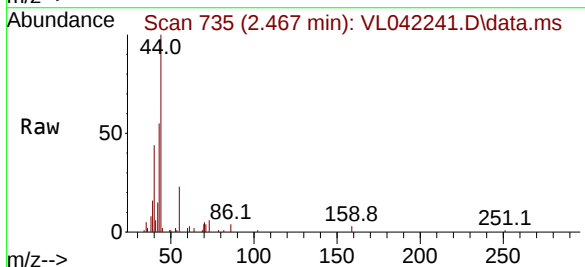
Ion Ratio Lower Upper

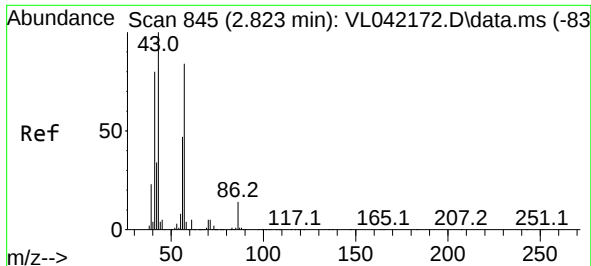
43 100

86 11.6 5.5 8.3#

42 0.0 8.6 13.0#

44 45.8 6.2 9.4#

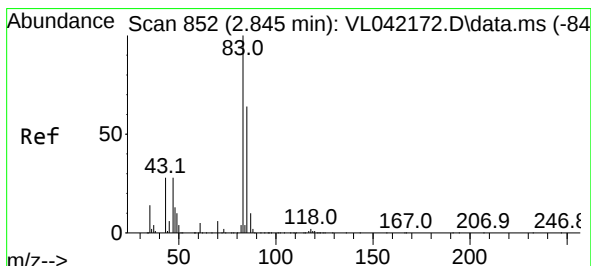
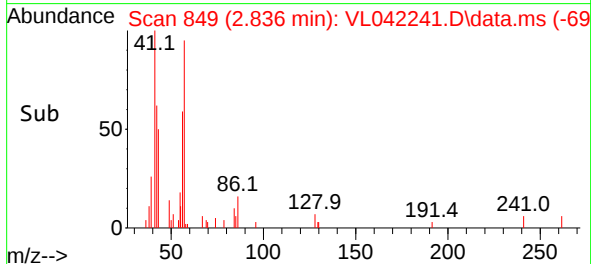
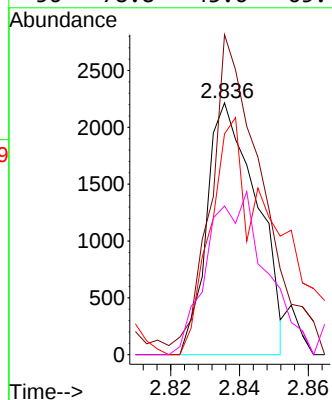
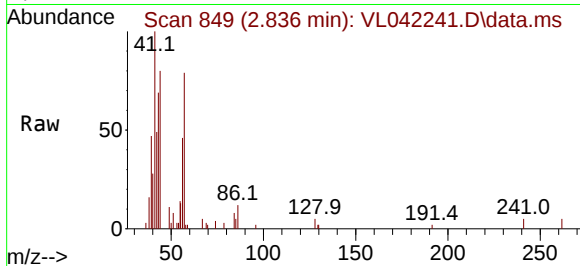




#26
Hexane
Concen: 0.082 ppbv
RT: 2.836 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

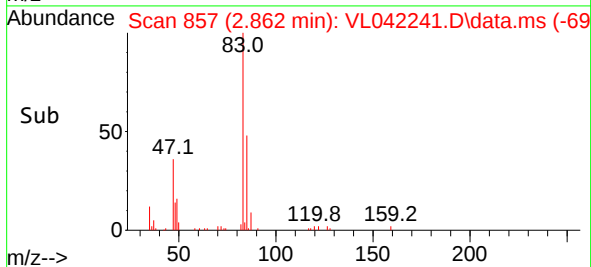
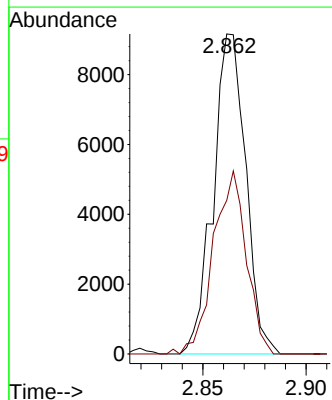
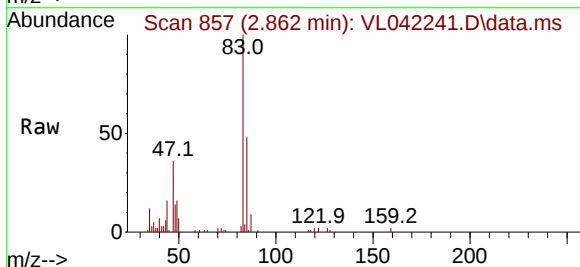
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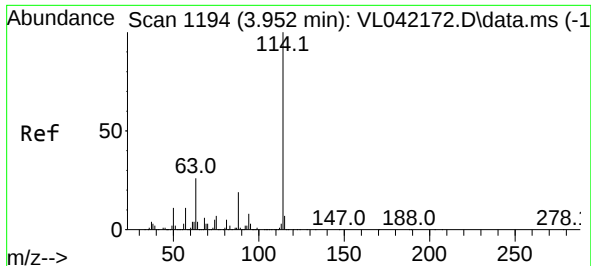
Tgt Ion: 57 Resp: 2231
Ion Ratio Lower Upper
57 100
41 141.8 76.6 114.8#
43 145.9 207.8 311.8#
56 78.8 43.6 65.4#



#29
Chloroform
Concen: 0.253 ppbv
RT: 2.862 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 83 Resp: 10048
Ion Ratio Lower Upper
83 100
85 48.0 51.4 77.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-1-03312025-SPLITDL

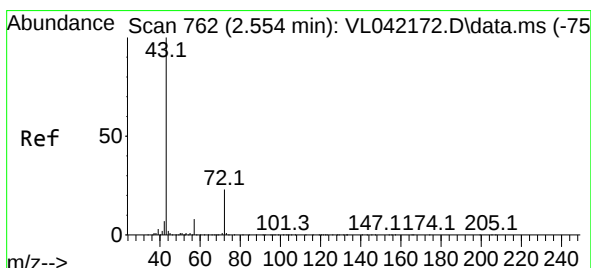
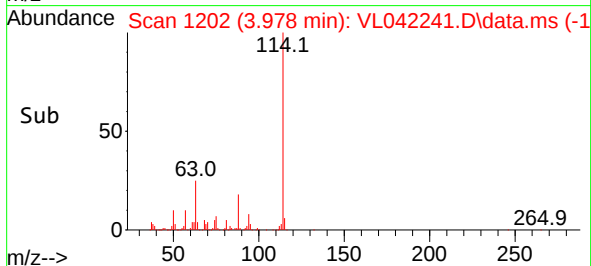
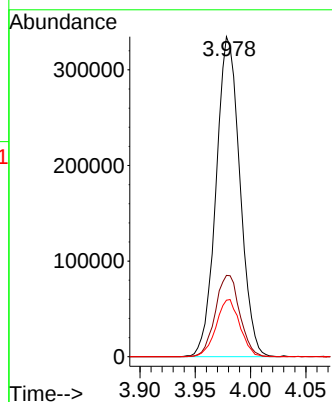
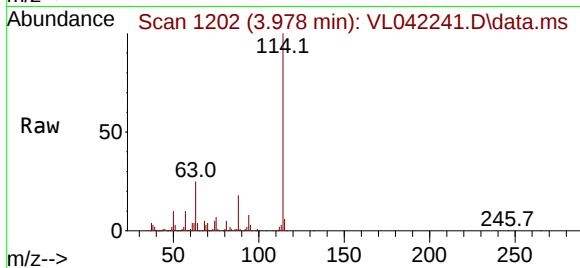
Tgt Ion:114 Resp: 501287

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 17.8 15.0 22.4



#34

2-Butanone

Concen: 0.163 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL042241.D

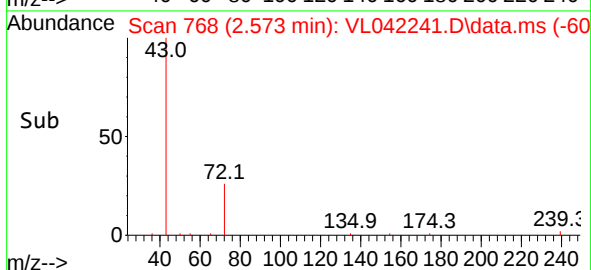
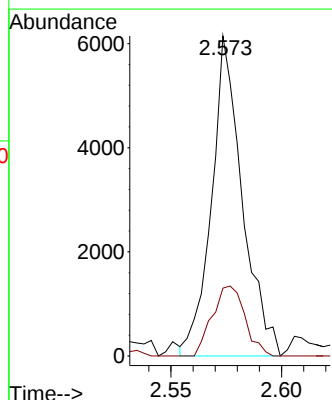
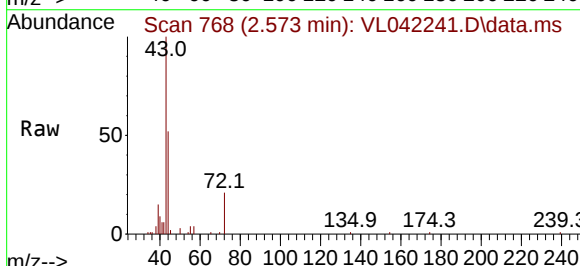
Acq: 07 Apr 2025 20:19

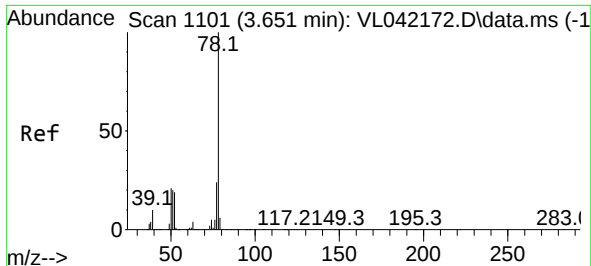
Tgt Ion: 43 Resp: 5926

Ion Ratio Lower Upper

43 100

72 23.2 18.2 27.2

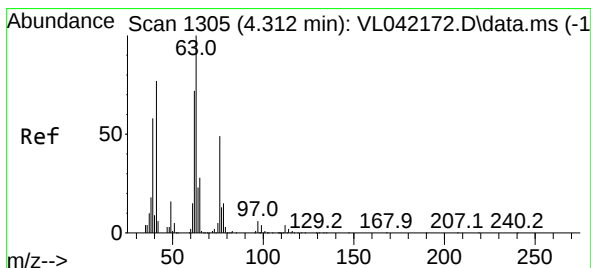
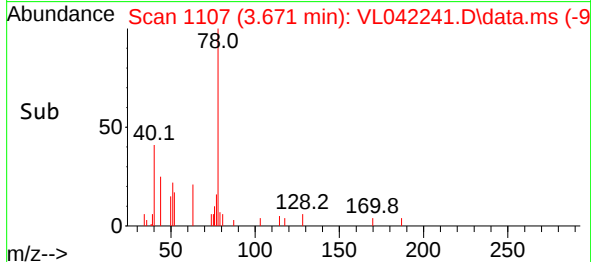
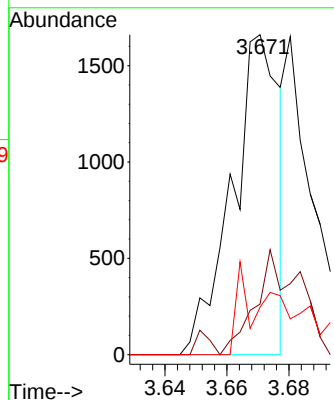
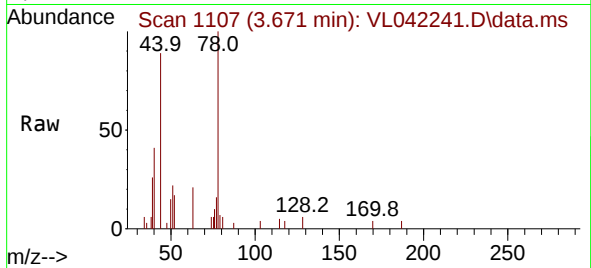




#36
Benzene
Concen: 0.035 ppbv
RT: 3.671 min Scan# 1101
Delta R.T. 0.019 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

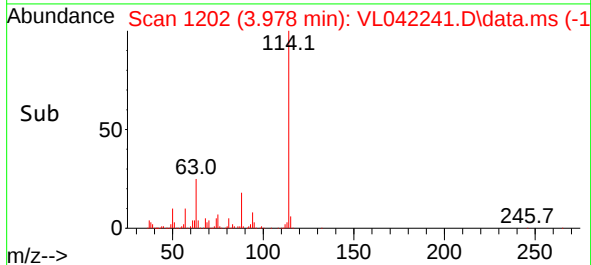
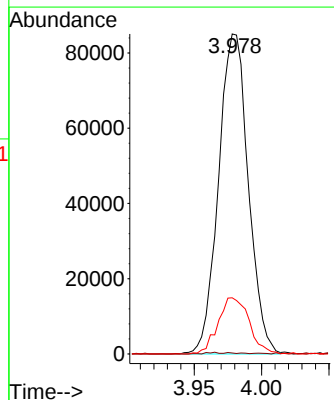
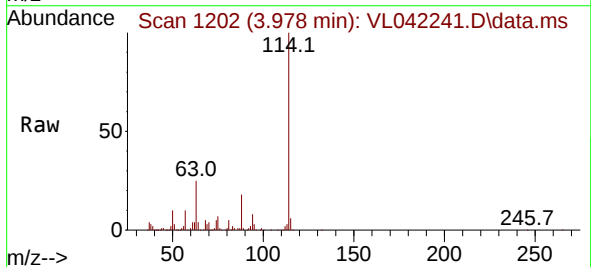
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

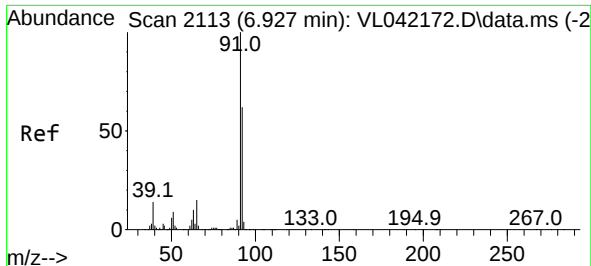
Tgt Ion: 78 Resp: 1744
Ion Ratio Lower Upper
78 100
77 16.5 19.1 28.7#
50 15.5 16.6 24.8#



#39
1,2-Dichloropropane
Concen: 7.217 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.333 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 63 Resp: 130609
Ion Ratio Lower Upper
63 100
41 0.2 61.7 92.5#
62 17.6 57.6 86.4#

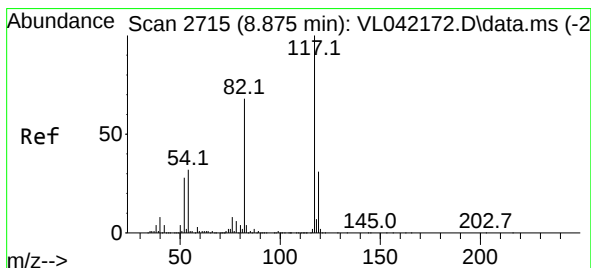
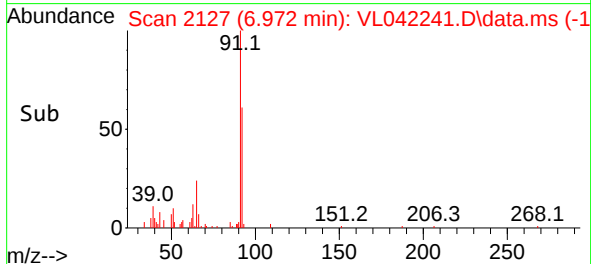
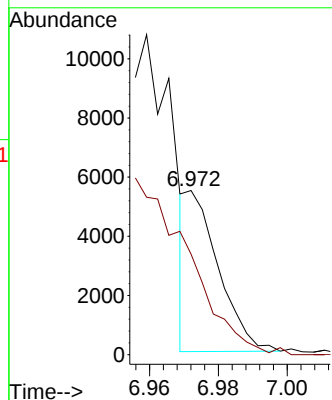
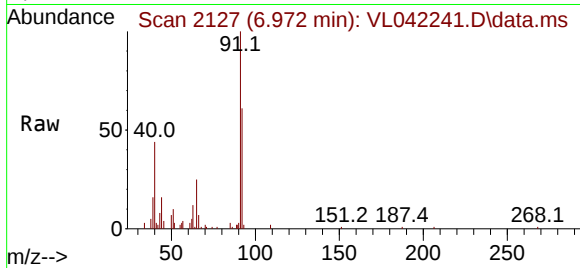




#53
Toluene
Concen: 0.060 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

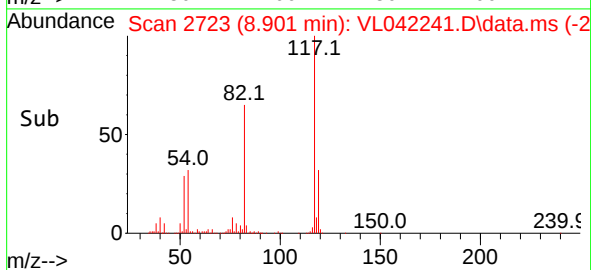
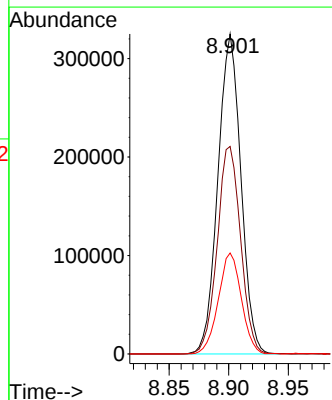
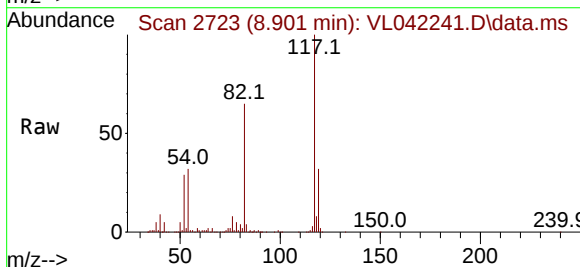
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

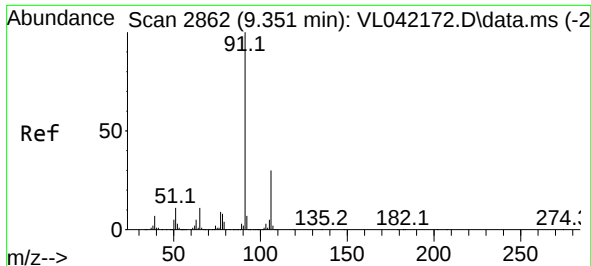
Tgt Ion: 91 Resp: 3522
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 117 Resp: 435889
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.6 25.5 38.3





#58

Ethyl Benzene

Concen: 0.067 ppbv

RT: 9.377 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

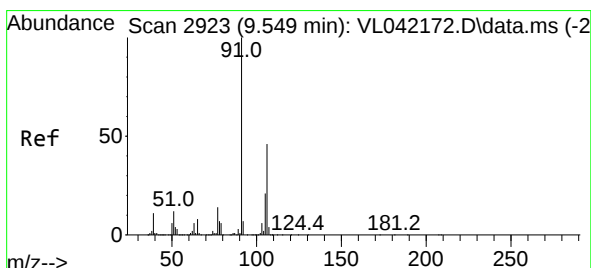
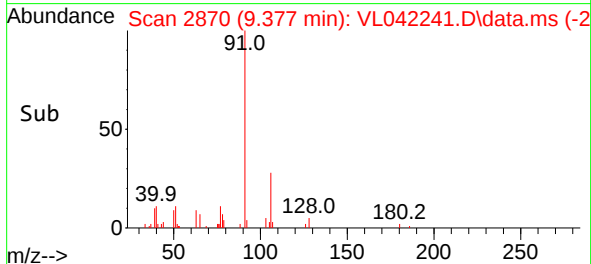
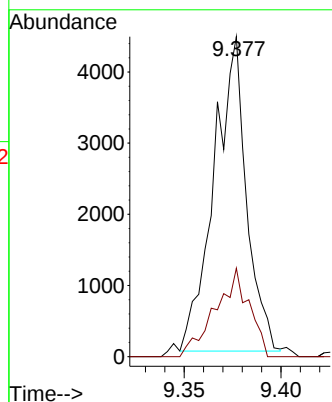
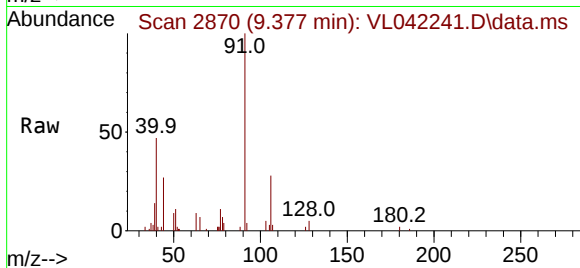
SSSG-B10-1-03312025-SPLITDL

Tgt Ion: 91 Resp: 5155

Ion Ratio Lower Upper

91 100

106 28.2 24.2 36.2



#59

m/p-Xylene

Concen: 0.075 ppbv

RT: 9.565 min Scan# 2928

Delta R.T. 0.016 min

Lab File: VL042241.D

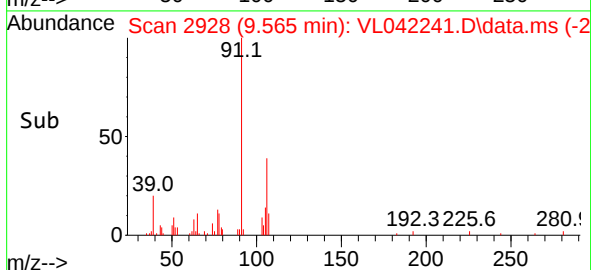
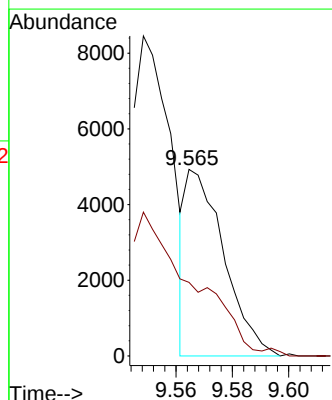
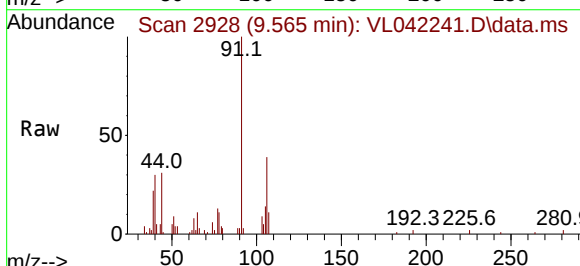
Acq: 07 Apr 2025 20:19

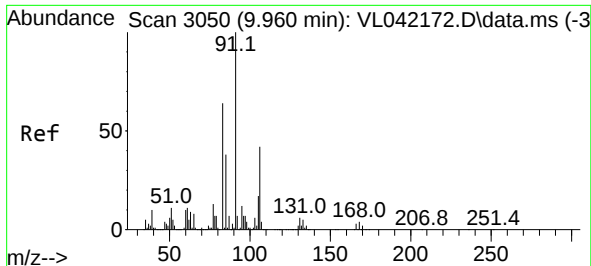
Tgt Ion: 91 Resp: 4633

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#

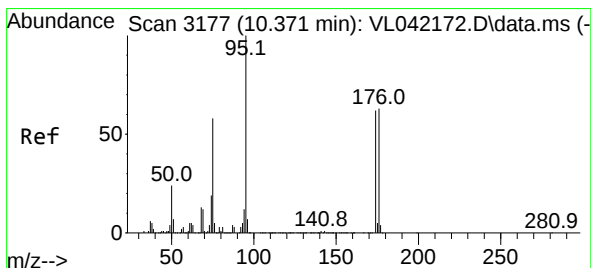
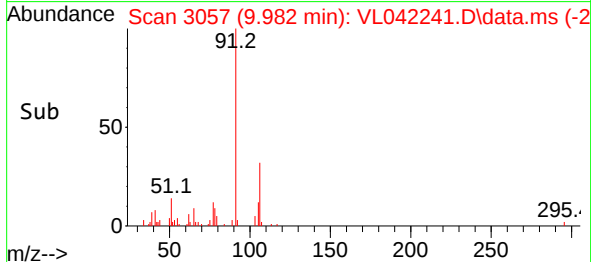
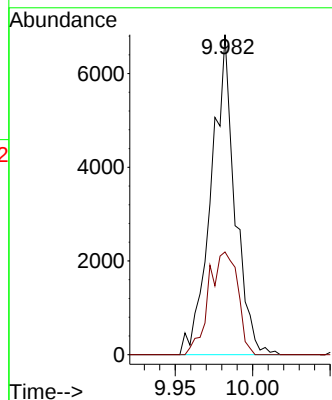
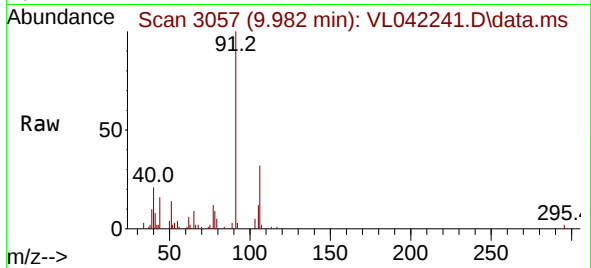




#60
o-Xylene
Concen: 0.118 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

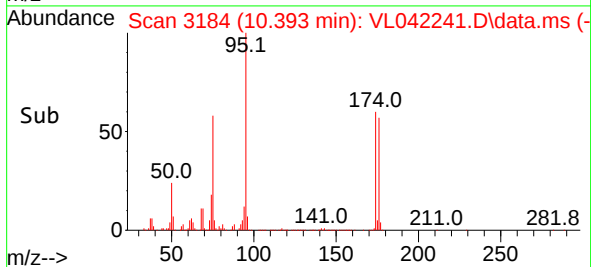
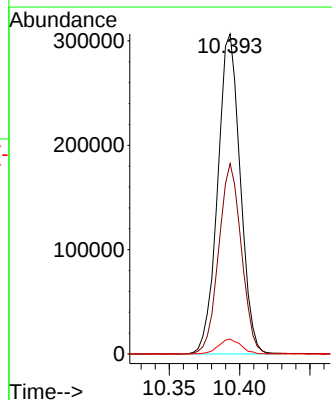
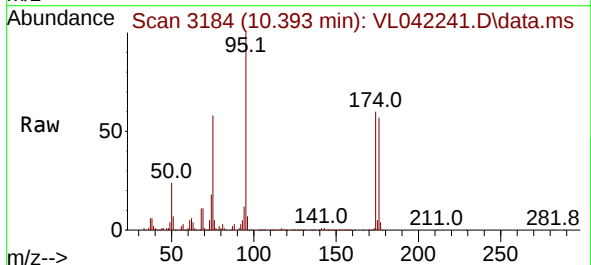
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-1-03312025-SPLITDL

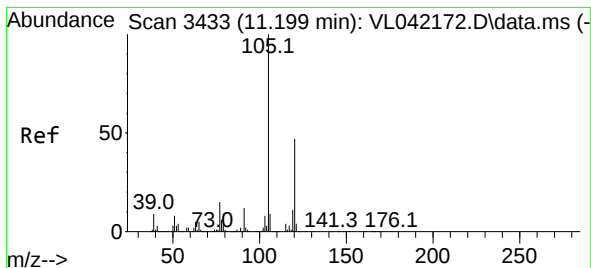
Tgt Ion: 91 Resp: 7313
Ion Ratio Lower Upper
91 100
106 39.0 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042241.D
Acq: 07 Apr 2025 20:19

Tgt Ion: 95 Resp: 342674
Ion Ratio Lower Upper
95 100
174 59.7 50.6 76.0
175 4.7 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.034 ppbv

RT: 11.219 min Scan# 3433

Delta R.T. 0.019 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Instrument :

MSVOA_L

ClientSampleId :

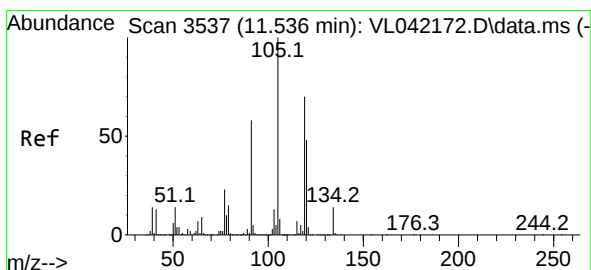
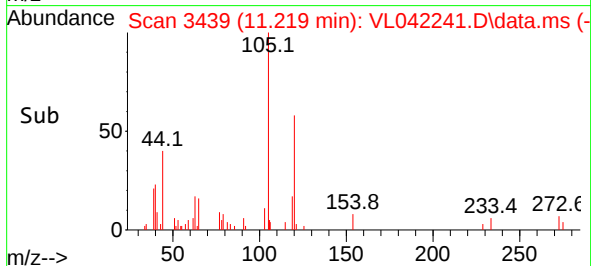
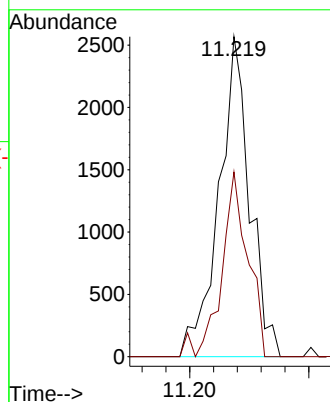
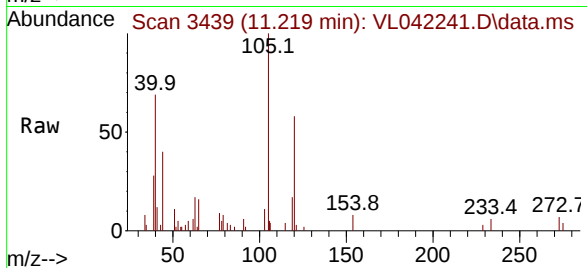
SSSG-B10-1-03312025-SPLITDL

Tgt Ion:105 Resp: 2306

Ion Ratio Lower Upper

105 100

120 55.1 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.091 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042241.D

Acq: 07 Apr 2025 20:19

Tgt Ion:105 Resp: 7104

Ion Ratio Lower Upper

105 100

120 32.8 38.6 58.0#

91 12.3 46.2 69.2#

77 15.8 18.6 27.8#

