

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042261.D
 Acq On : 08 Apr 2025 13:52
 Operator : SY/MD
 Sample : Q1728-06DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025DL

Quant Time: Apr 09 01:55:11 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)

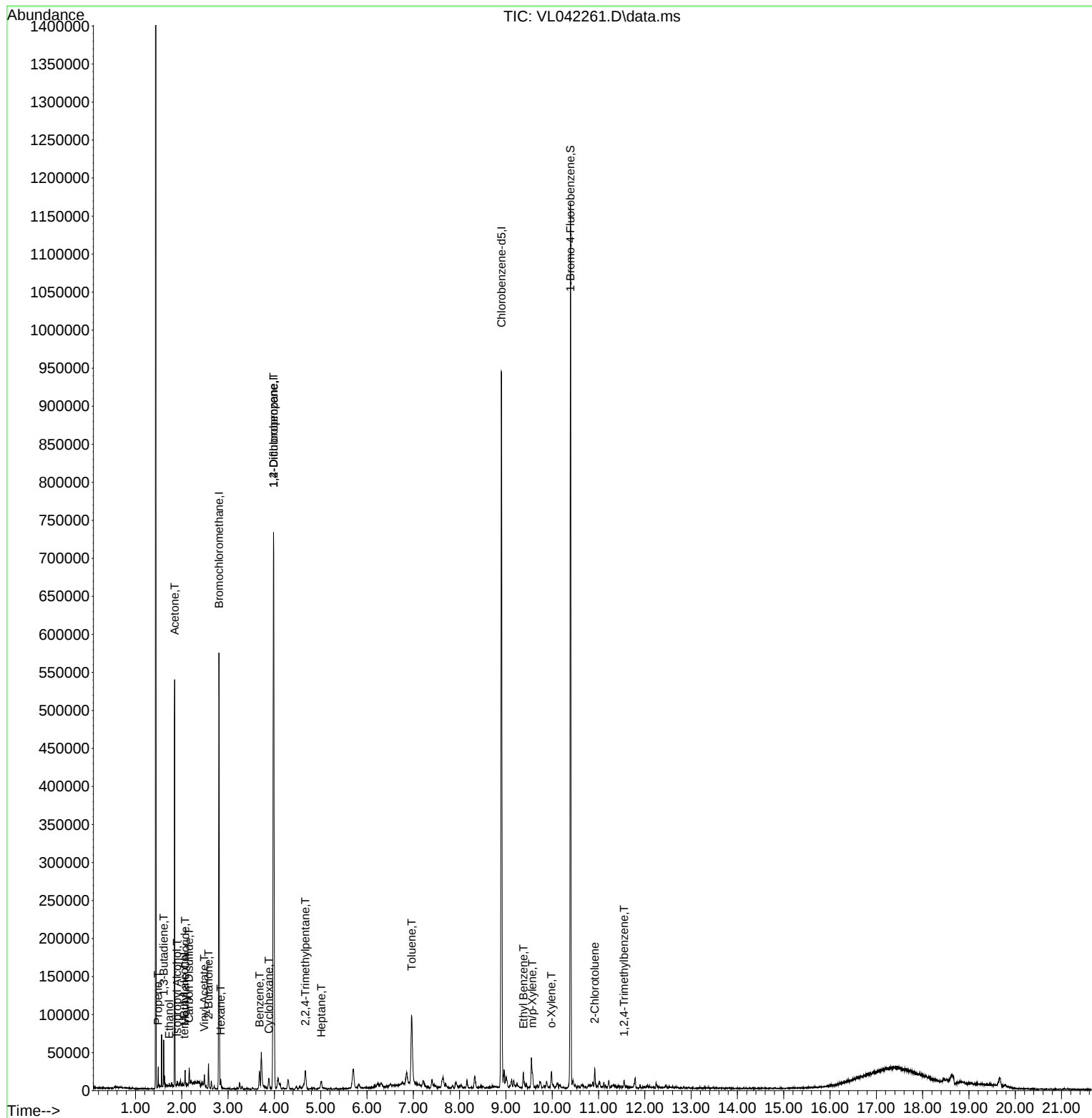
Internal Standards						
1) Bromochloromethane	2.803	49	158005	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	439373	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	391568	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	295748	9.197	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.000%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	4186	0.383	ppbv	91
10) Heptane	5.014	43	2996	0.103	ppbv #	52
13) Ethanol	1.729	45	1531	1.483	ppbv	98
15) Acetone	1.845	43	225134	10.188	ppbv	96
16) 1,3-Butadiene	1.609	39	6177	0.572	ppbv #	25
17) tert-Butyl alcohol	2.056	59	1582	0.057	ppbv #	84
19) Isopropyl Alcohol	1.897	45	2391	0.192	ppbv #	30
20) Methylene Chloride	2.072	84	2648	0.322	ppbv #	88
23) Vinyl Acetate	2.486	43	4252	0.445	ppbv #	67
26) Hexane	2.842	57	2234	0.101	ppbv #	25
27) Carbon Disulfide	2.159	76	11933	0.502	ppbv #	40
30) Cyclohexane	3.878	84	1113	0.058	ppbv #	1
34) 2-Butanone	2.577	43	19969	0.627	ppbv	98
36) Benzene	3.677	78	13713	0.315	ppbv	98
39) 1,2-Dichloropropane	3.981	63	112028	7.062	ppbv #	22
44) 2,2,4-Trimethylpentane	4.668	57	20025	0.272	ppbv #	79
53) Toluene	6.962	91	63357	1.227	ppbv	98
58) Ethyl Benzene	9.380	91	10341	0.149	ppbv #	88
59) m/p-Xylene	9.571	91	4118	0.074	ppbv #	31
60) o-Xylene	9.982	91	9278	0.167	ppbv	92
71) 2-Chlorotoluene	10.918	91	7066	0.109	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	3259	0.047	ppbv #	56

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

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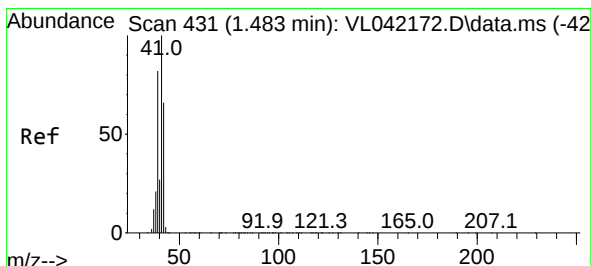
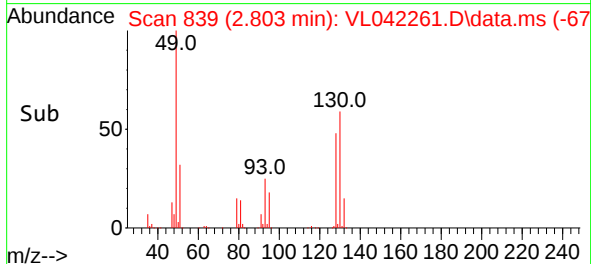
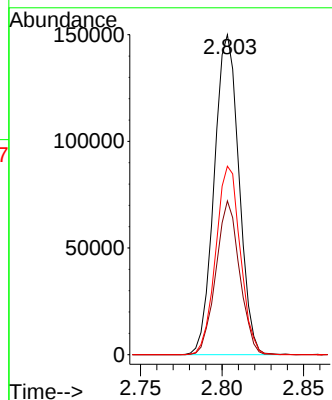
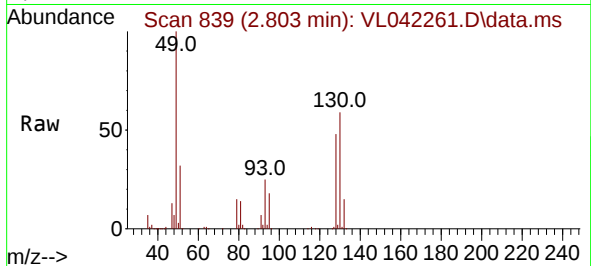




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

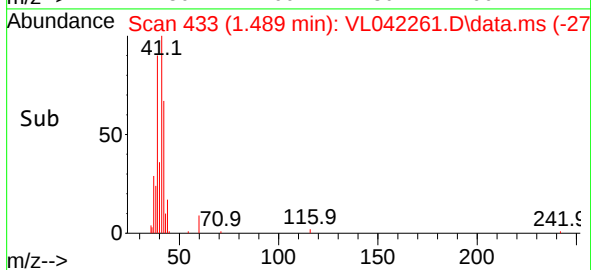
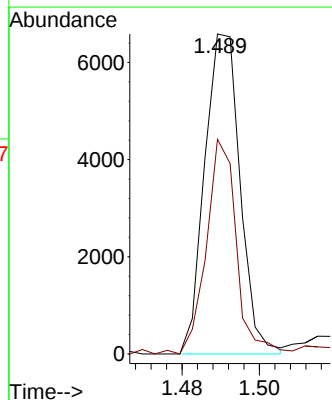
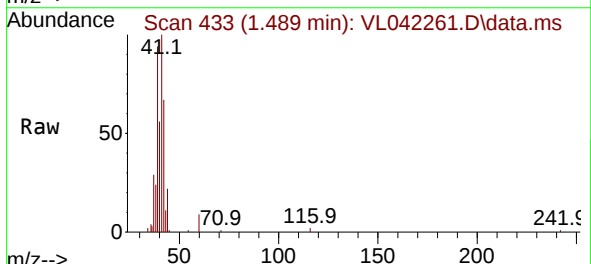
Instrument :
MSVOA_L
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SSSG-B2-5-04022025DL

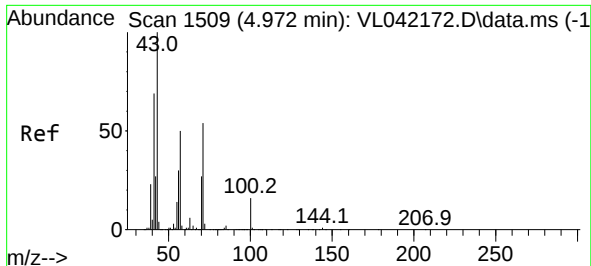
Tgt Ion: 49 Resp: 158005
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.5 28.8 86.4



#9
Propene
Concen: 0.383 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 41 Resp: 4186
Ion Ratio Lower Upper
41 100
42 62.2 55.4 83.2

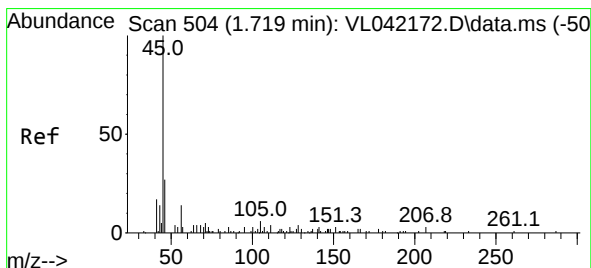
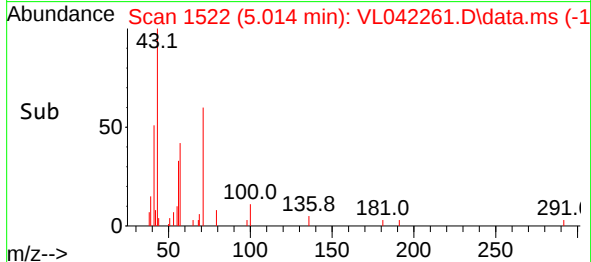
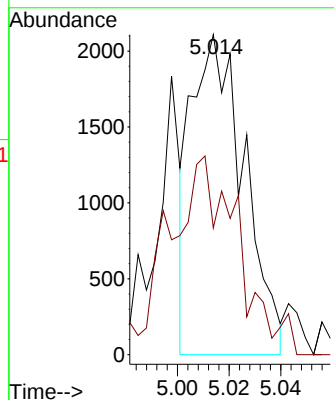
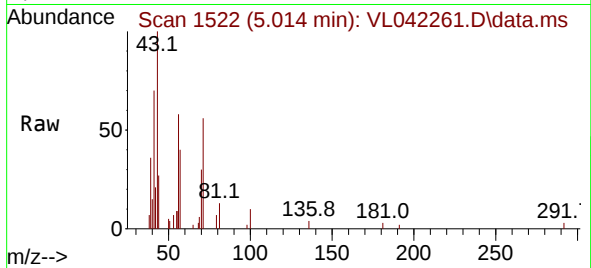




#10
 Heptane
 Concen: 0.103 ppbv
 RT: 5.014 min Scan# 11
 Delta R.T. 0.042 min
 Lab File: VL042261.D
 Acq: 08 Apr 2025 13:52

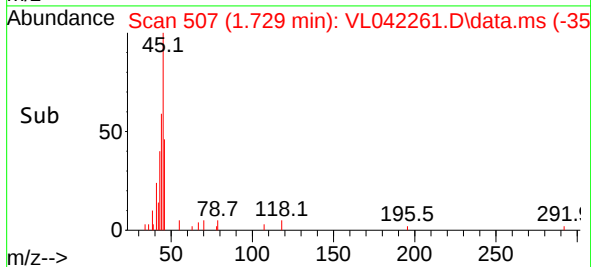
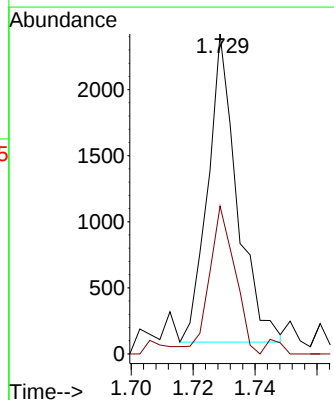
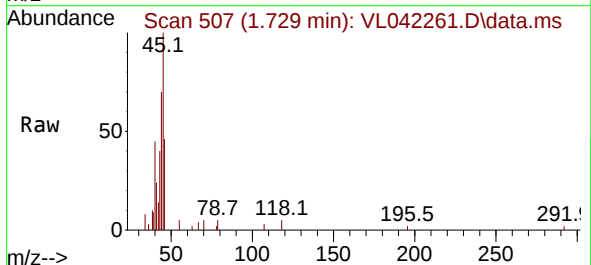
Instrument :
 MSVOA_L
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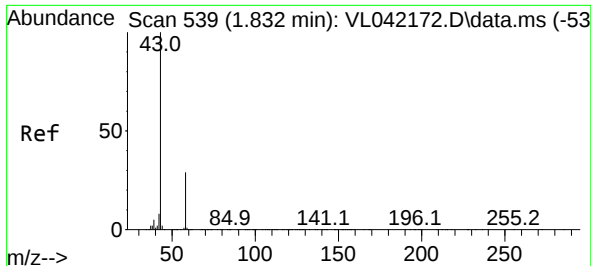
Tgt Ion: 43 Resp: 2996
 Ion Ratio Lower Upper
 43 100
 57 82.2 39.4 59.2#



#13
 Ethanol
 Concen: 1.483 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.010 min
 Lab File: VL042261.D
 Acq: 08 Apr 2025 13:52

Tgt Ion: 45 Resp: 1531
 Ion Ratio Lower Upper
 45 100
 46 49.1 20.2 80.8





#15

Acetone

Concen: 10.188 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

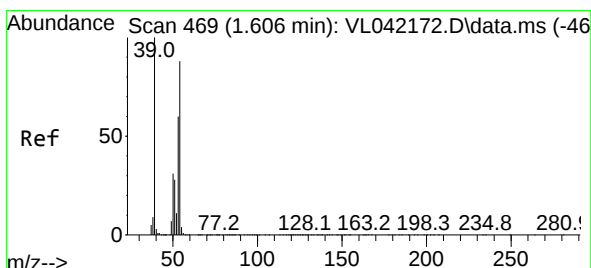
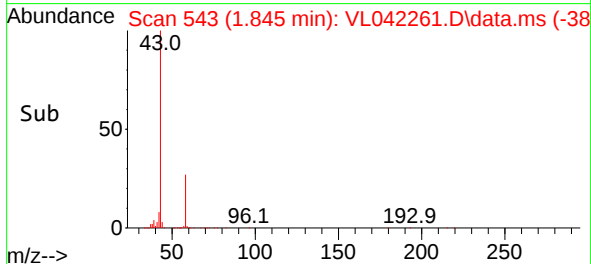
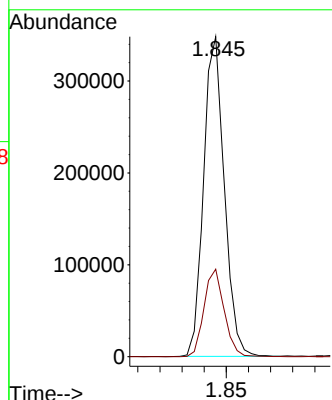
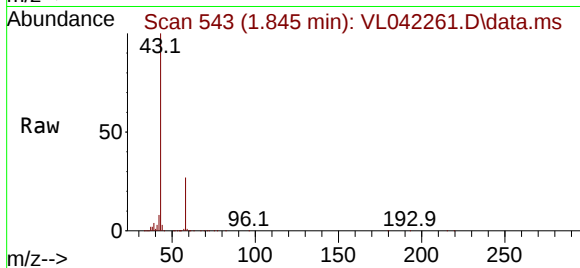
SSSG-B2-5-04022025DL

Tgt Ion: 43 Resp: 225134

Ion Ratio Lower Upper

43 100

58 26.7 23.2 34.8



#16

1,3-Butadiene

Concen: 0.572 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042261.D

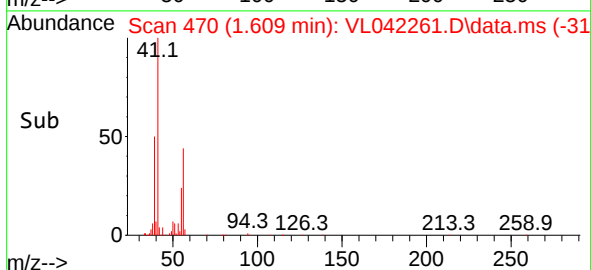
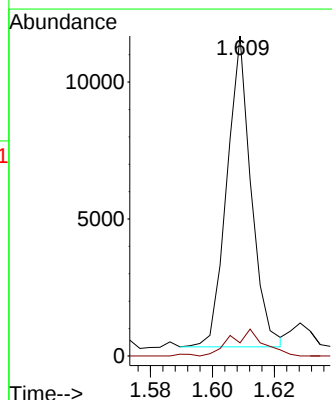
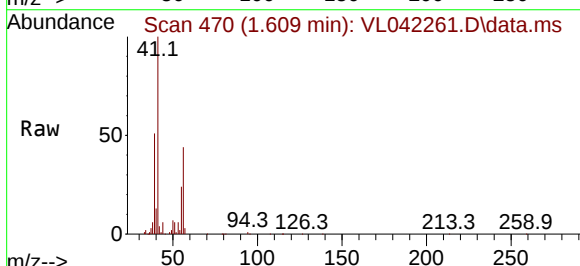
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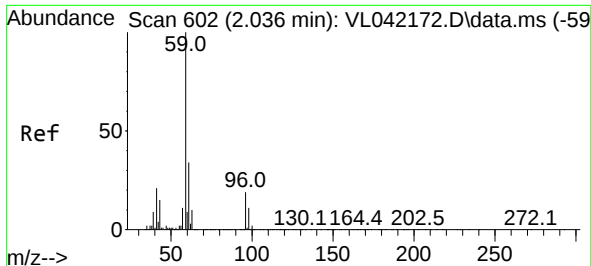
Tgt Ion: 39 Resp: 6177

Ion Ratio Lower Upper

39 100

54 11.9 60.7 91.1#

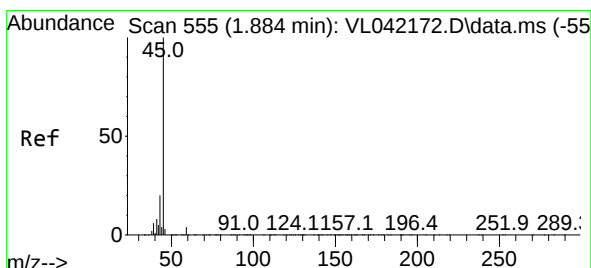
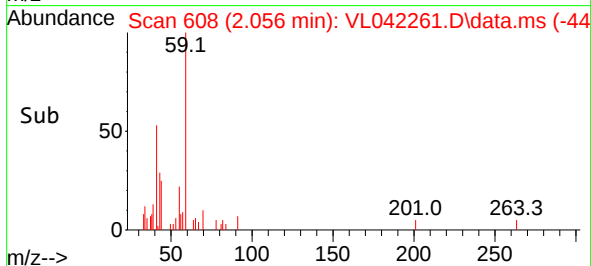
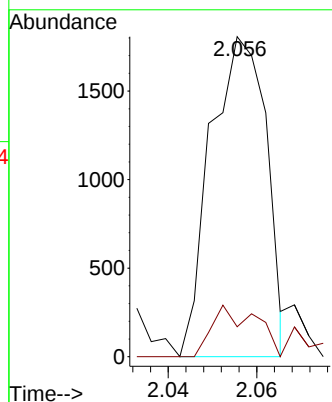
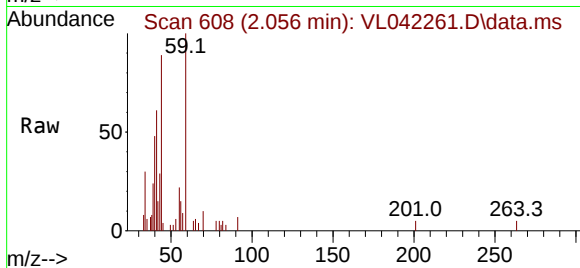




#17
tert-Butyl alcohol
Concen: 0.057 ppbv
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

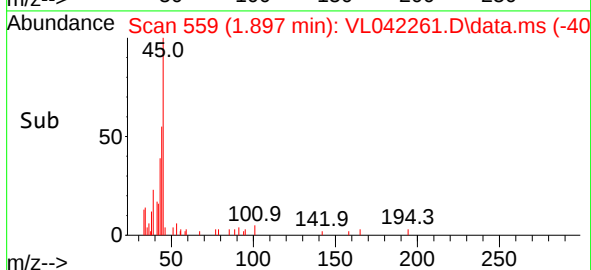
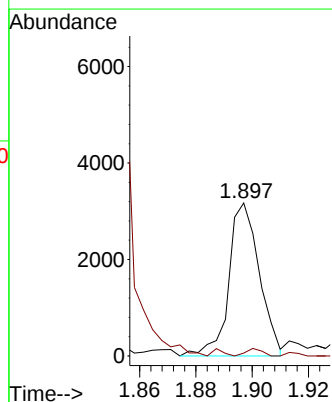
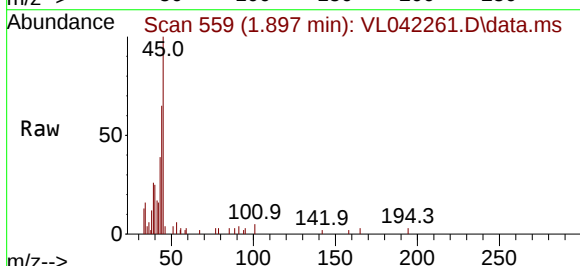
Instrument :
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ClientSampleId :
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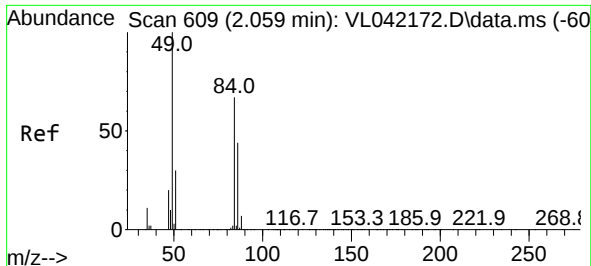
Tgt Ion: 59 Resp: 1582
Ion Ratio Lower Upper
59 100
57 17.0 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 0.192 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 45 Resp: 2391
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#

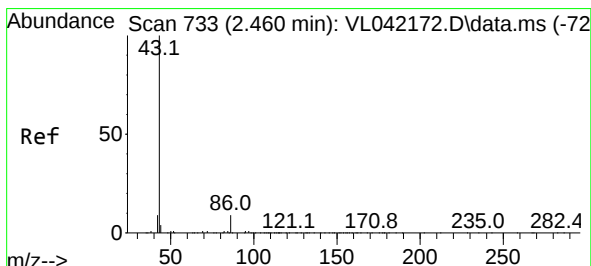
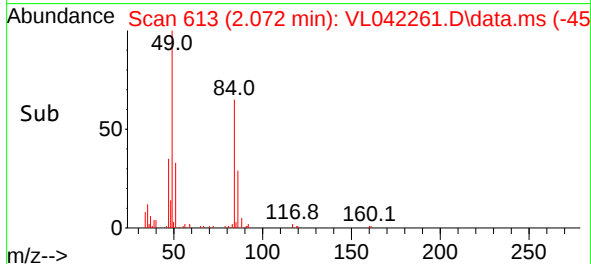
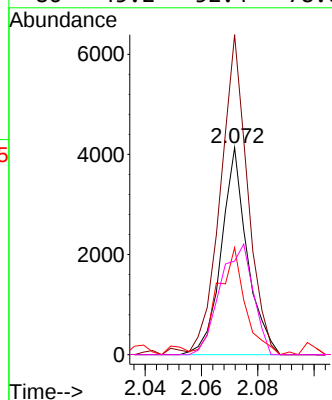
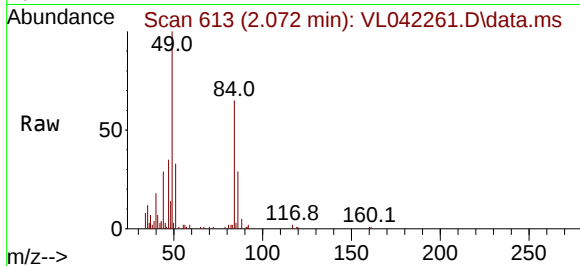




#20
Methylene Chloride
Concen: 0.322 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

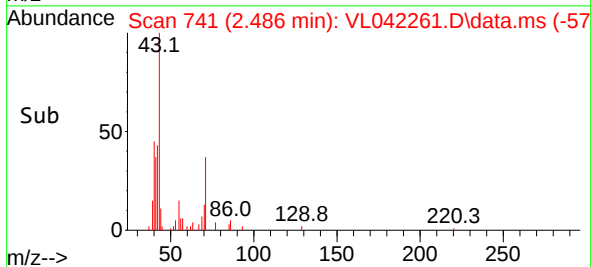
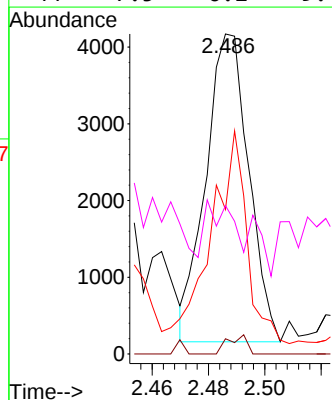
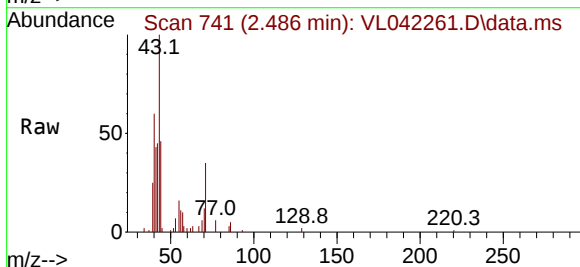
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-5-04022025DL

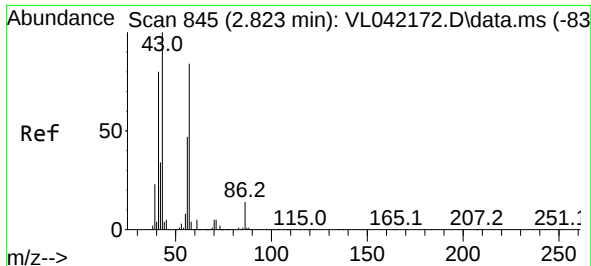
Tgt Ion:	84	Resp:	2648
Ion	Ratio	Lower	Upper
84	100		
49	158.8	120.2	180.4
51	51.7	37.4	56.0
86	45.2	52.4	78.6



#23
Vinyl Acetate
Concen: 0.445 ppbv
RT: 2.486 min Scan# 741
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion:	43	Resp:	4252
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.5	8.3
42	38.5	8.6	13.0
44	7.5	6.2	9.4

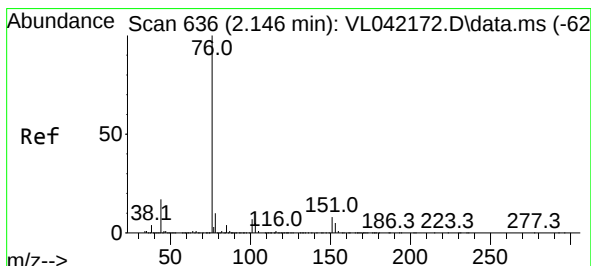
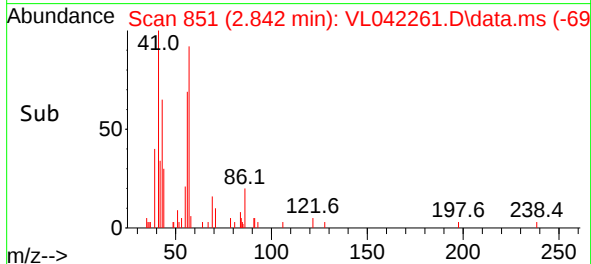
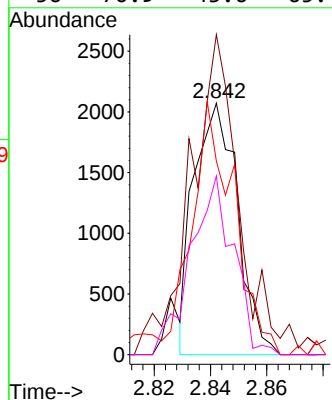
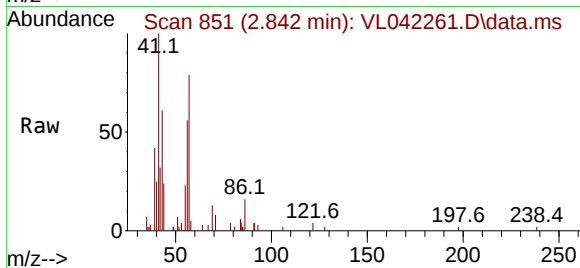




#26
Hexane
Concen: 0.101 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

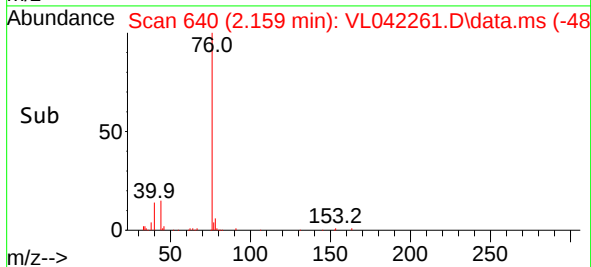
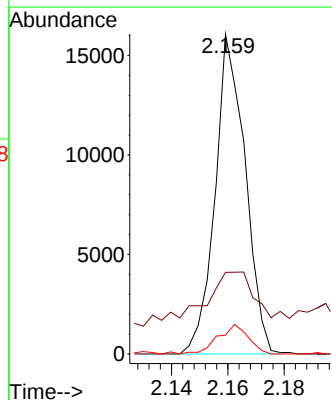
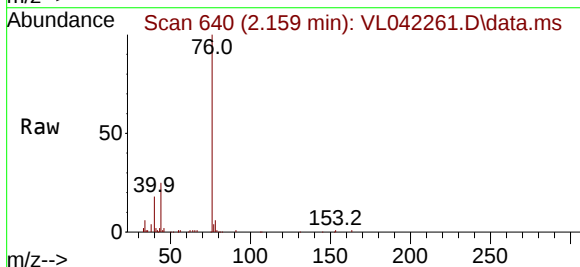
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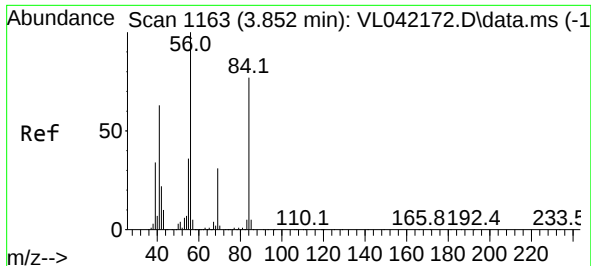
Tgt Ion:	57	Resp:	2234
Ion	Ratio	Lower	Upper
57	100		
41	169.1	76.6	114.8#
43	106.4	207.8	311.8#
56	70.9	43.6	65.4#



#27
Carbon Disulfide
Concen: 0.502 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion:	76	Resp:	11933
Ion	Ratio	Lower	Upper
76	100		
44	60.6	14.7	22.1#
78	10.1	9.3	13.9

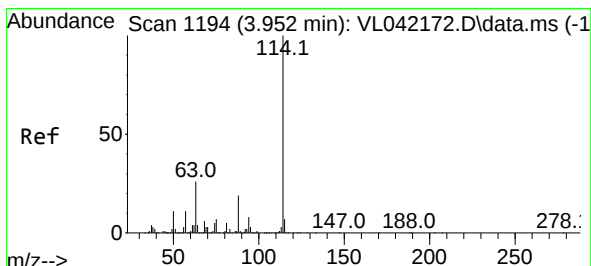
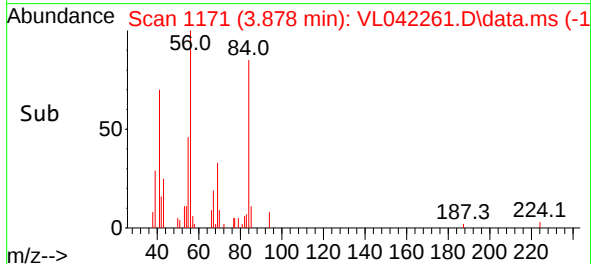
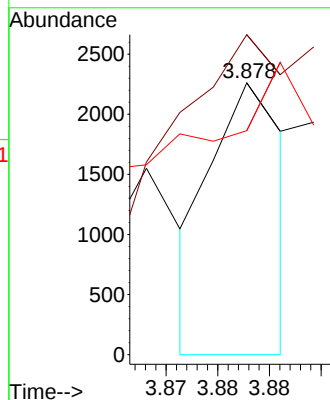
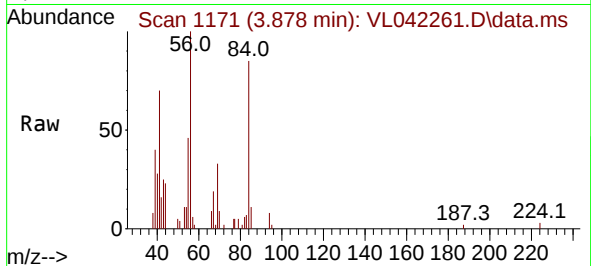




#30
Cyclohexane
Concen: 0.058 ppbv
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

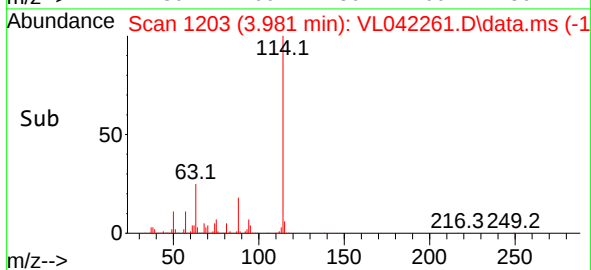
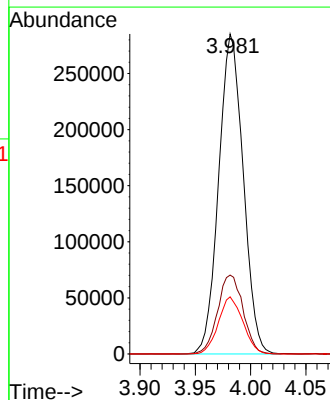
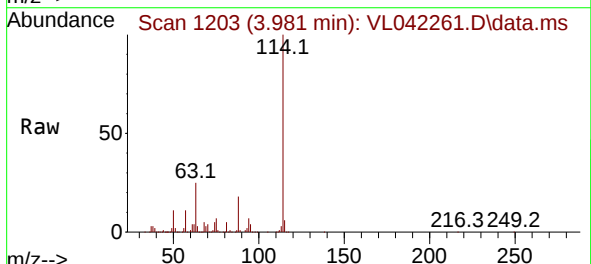
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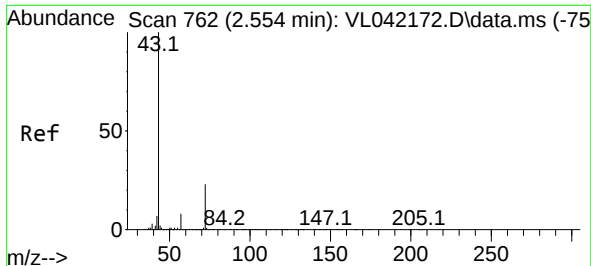
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Ion Ratio Lower Upper
84 100
56 401.4 102.8 154.2#
41 376.0 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 114 Resp: 439373
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 17.8 15.0 22.4

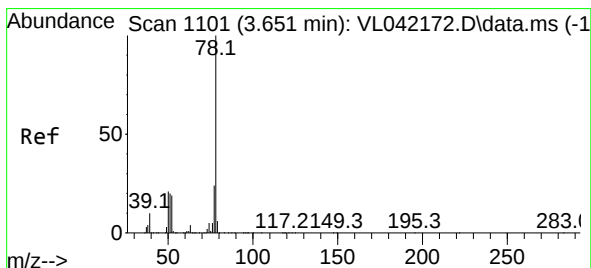
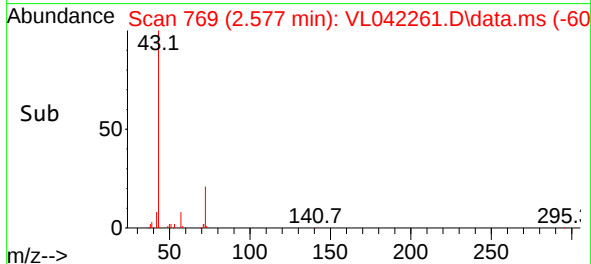
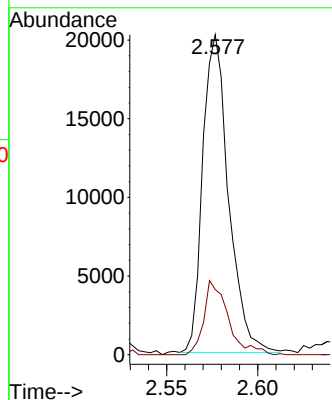
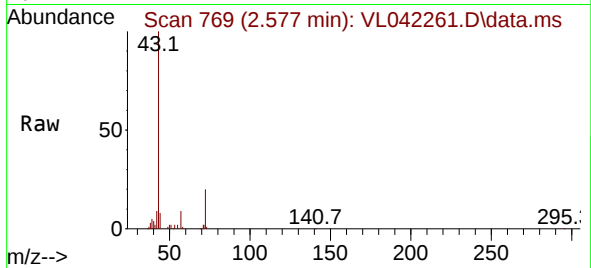




#34
2-Butanone
Concen: 0.627 ppbv
RT: 2.577 min Scan# 710
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

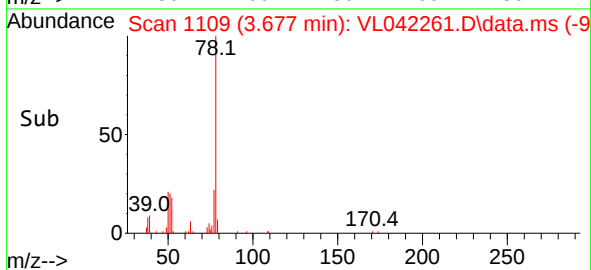
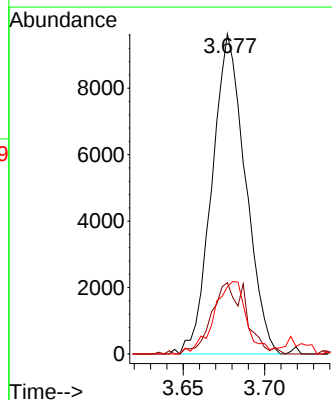
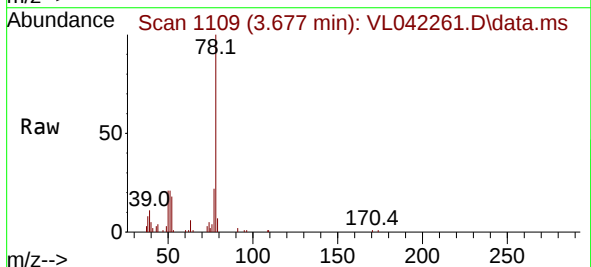
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

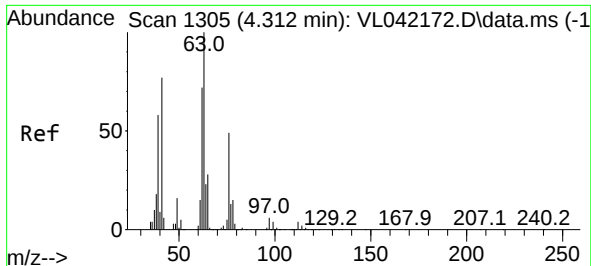
Tgt Ion: 43 Resp: 19969
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2



#36
Benzene
Concen: 0.315 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 78 Resp: 13713
Ion Ratio Lower Upper
78 100
77 22.3 19.1 28.7
50 21.0 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.062 ppbv

RT: 3.981 min Scan# 1120

Delta R.T. -0.330 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-5-04022025DL

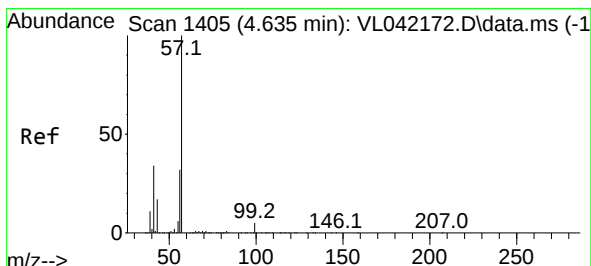
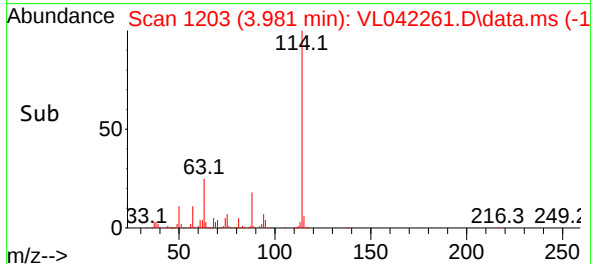
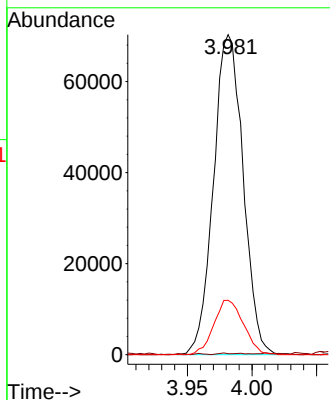
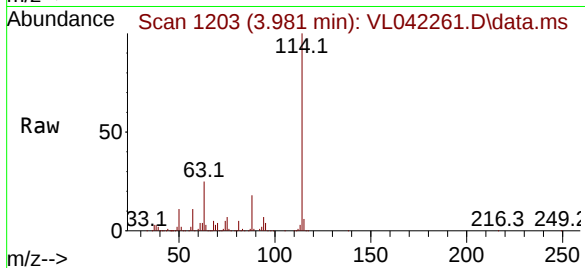
Tgt Ion: 63 Resp: 112028

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.0 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.272 ppbv

RT: 4.668 min Scan# 1415

Delta R.T. 0.032 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

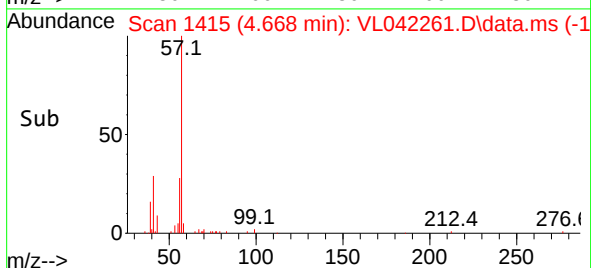
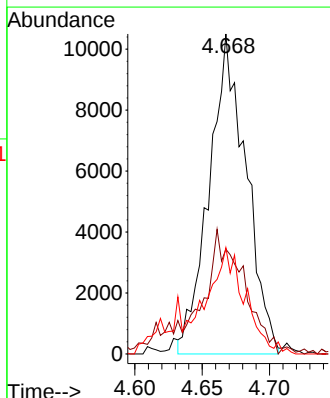
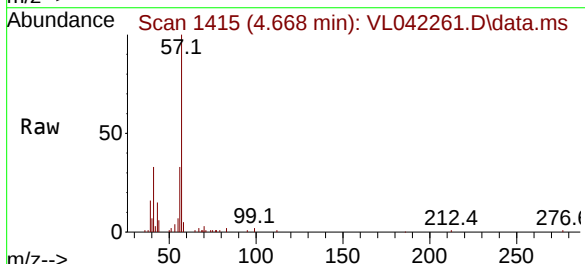
Tgt Ion: 57 Resp: 20025

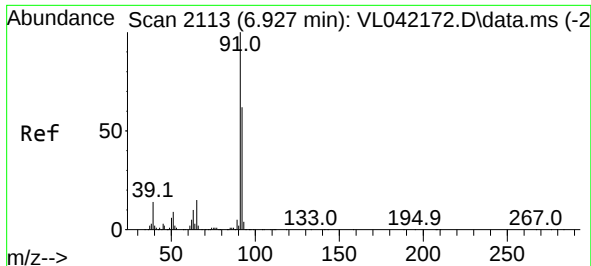
Ion Ratio Lower Upper

57 100

41 46.0 26.8 40.2#

56 43.0 25.6 38.4#

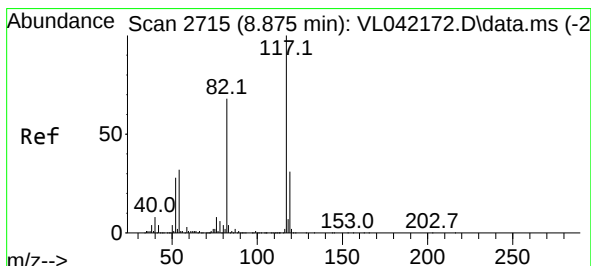
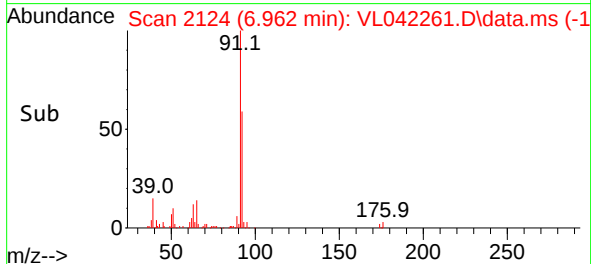
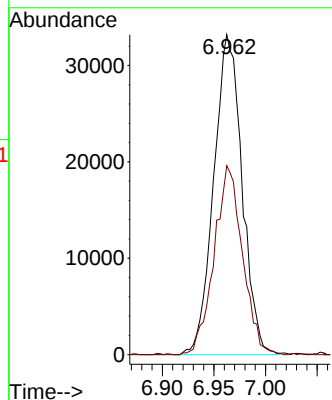
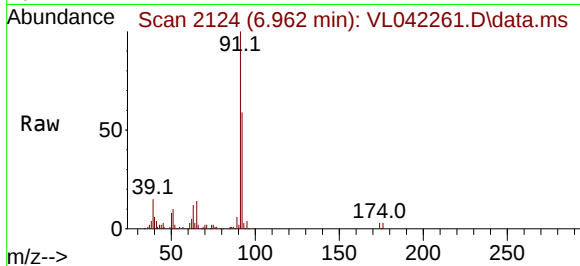




#53
Toluene
Concen: 1.227 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

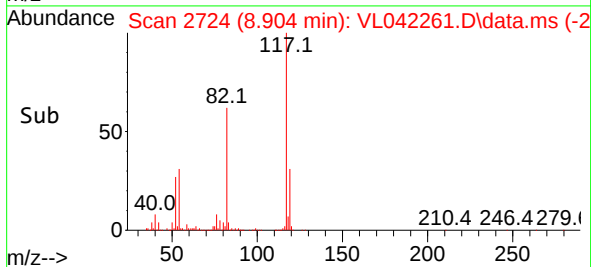
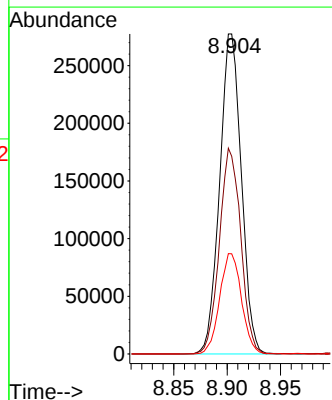
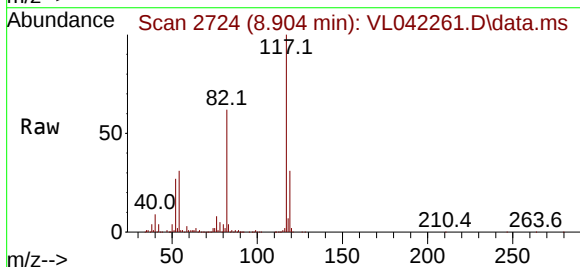
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

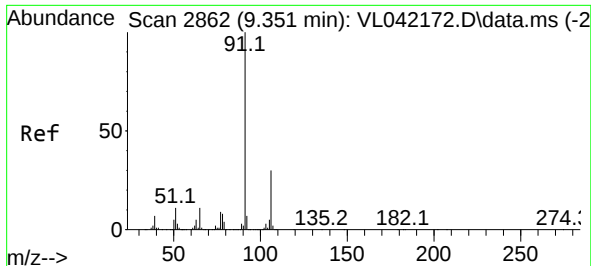
Tgt Ion: 91 Resp: 63357
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 117 Resp: 391568
Ion Ratio Lower Upper
117 100
82 63.5 55.8 83.6
119 31.6 25.5 38.3





#58

Ethyl Benzene

Concen: 0.149 ppbv

RT: 9.380 min Scan# 21

Delta R.T. 0.029 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_1

ClientSampleId :

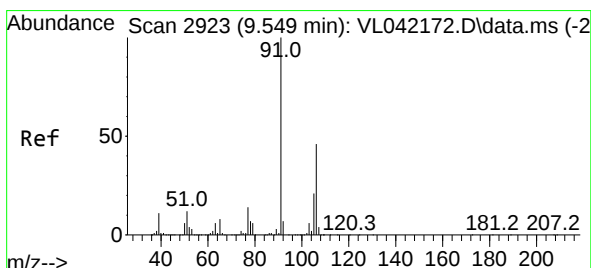
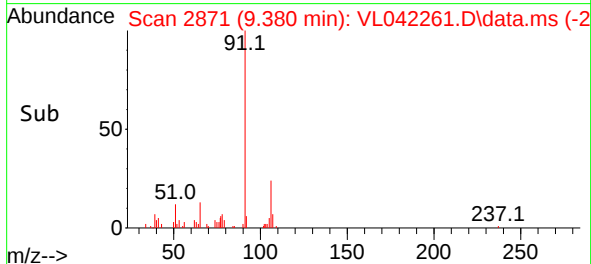
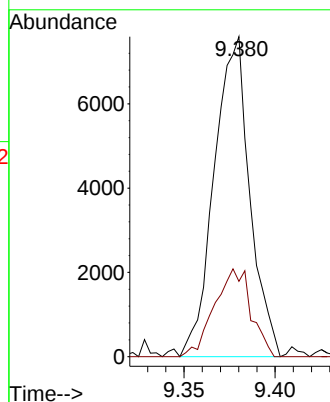
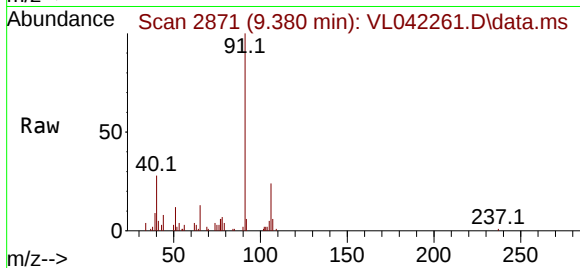
SSSG-B2-5-04022025DL

Tgt Ion: 91 Resp: 10341

Ion Ratio Lower Upper

91 100

106 23.6 24.2 36.2#



#59

m/p-Xylene

Concen: 0.074 ppbv

RT: 9.571 min Scan# 2930

Delta R.T. 0.023 min

Lab File: VL042261.D

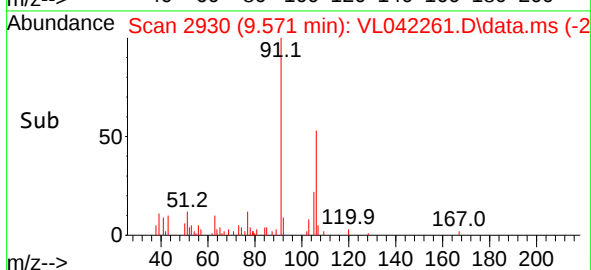
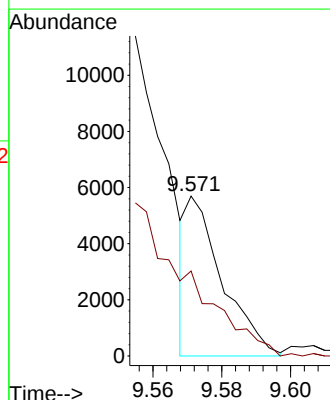
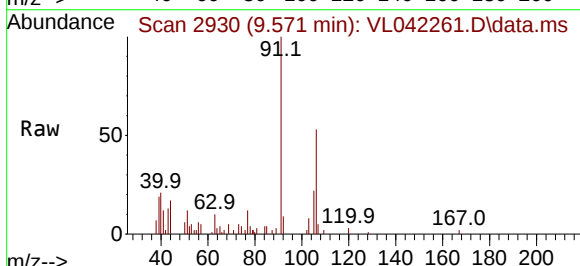
Acq: 08 Apr 2025 13:52

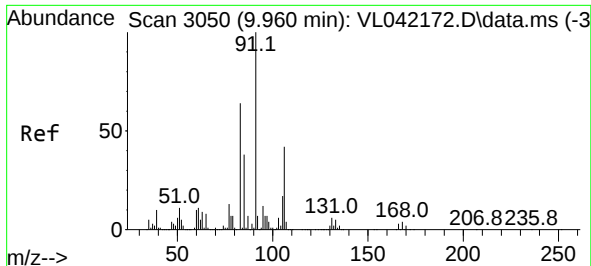
Tgt Ion: 91 Resp: 4118

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#

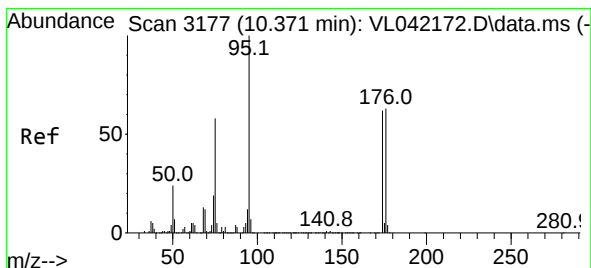
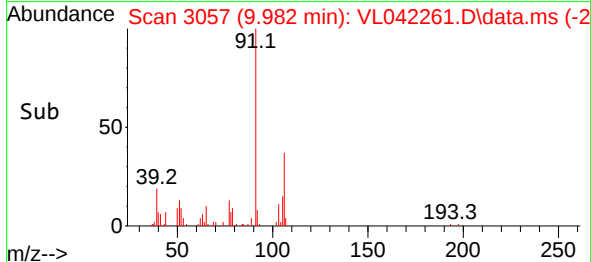
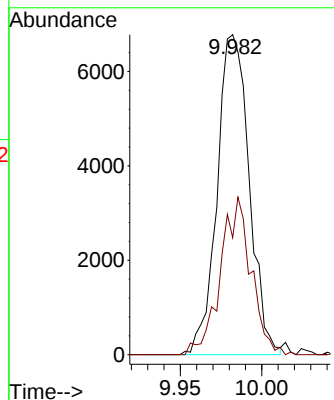
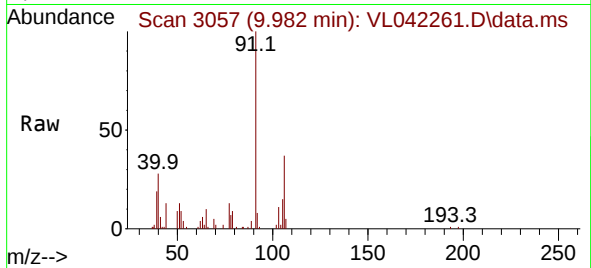




#60
o-Xylene
Concen: 0.167 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

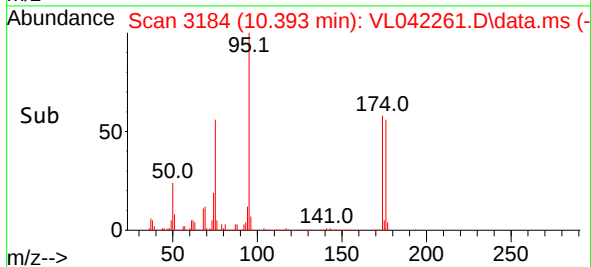
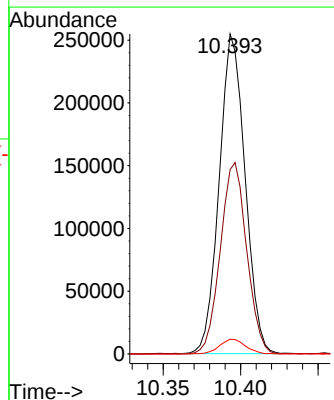
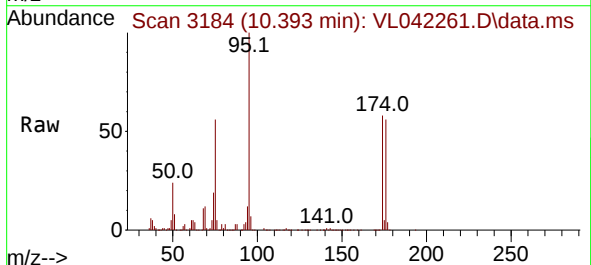
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

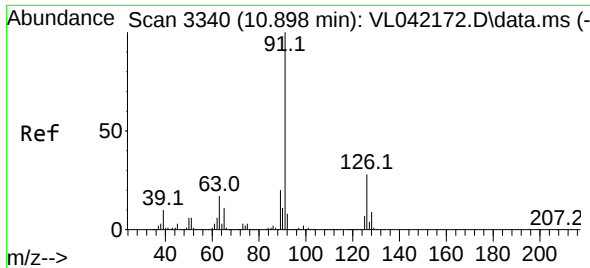
Tgt Ion: 91 Resp: 9278
Ion Ratio Lower Upper
91 100
106 47.0 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.197 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 95 Resp: 295748
Ion Ratio Lower Upper
95 100
174 61.4 50.6 76.0
175 4.7 3.8 5.6

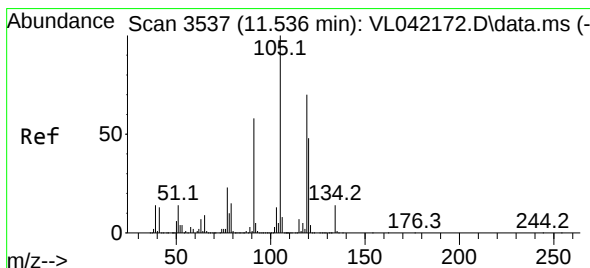
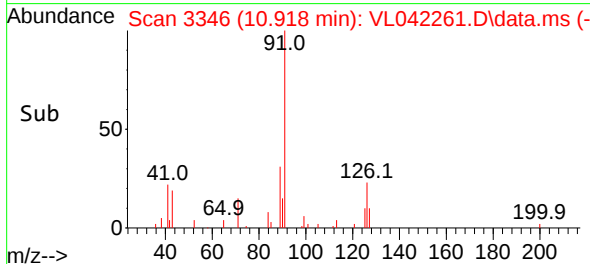
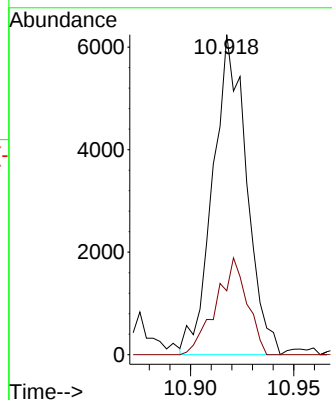
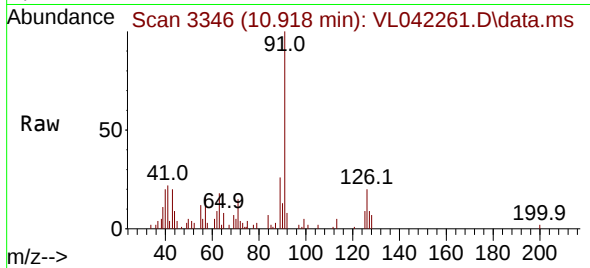




#71
2-Chlorotoluene
Concen: 0.109 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

Tgt Ion: 91 Resp: 7066
Ion Ratio Lower Upper
91 100
126 27.9 11.6 46.4



#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 105 Resp: 3259
Ion Ratio Lower Upper
105 100
120 23.9 38.6 58.0#
91 15.4 46.2 69.2#
77 10.8 18.6 27.8#

