

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043214.D
 Acq On : 18 Nov 2025 15:57
 Operator : SY/MD
 Sample : Q3651-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Nov 19 01:35:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	106759	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	268208	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.879	117	212527	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	163992	10.527	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5568	0.370	ppbv	98
3) Chlorodifluoromethane	1.473	51	7922	0.535	ppbv #	82
4) Chloromethane	1.531	50	3558	0.632	ppbv	97
5) Vinyl Chloride	1.577	62	330	0.054	ppbv	89
7) Chloroethane	1.700	64	169	0.070	ppbv #	41
9) Propene	1.486	41	733068	116.578	ppbv #	1
10) Heptane	4.985	43	4118	0.220	ppbv #	28
11) Trichlorofluoromethane	1.875	101	3417	0.234	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.133	101	884	0.078	ppbv #	81
13) Ethanol	1.722	45	69367	31.371	ppbv	99
15) Acetone	1.842	43	3744141	252.430	ppbv #	54
16) 1,3-Butadiene	1.619	39	615945	93.148	ppbv #	14
17) tert-Butyl alcohol	1.891	59	44634	2.293	ppbv #	71
18) 1,1-Dichloroethene	2.033	96	2201	0.415	ppbv #	91
19) Isopropyl Alcohol	1.891	45	1147126	136.866	ppbv #	36
20) Methylene Chloride	2.072	84	3087248	765.687	ppbv #	55
21) Allyl Chloride	2.065	41	233436	23.392	ppbv #	21
22) trans-1,2-Dichloroethene	2.341	96	1410	0.233	ppbv #	73
23) Vinyl Acetate	2.855	43	6786931	379.024	ppbv #	78
25) Ethyl Acetate	2.855	43	6786931	212.157	ppbv #	53
26) Hexane	2.823	57	4707	0.336	ppbv #	1
28) Methyl tert-Butyl Ether	2.855	73	645435	93.753	ppbv #	50
29) Chloroform	2.868	83	3234	0.162	ppbv	90
30) Cyclohexane	3.862	84	1306	0.111	ppbv #	1
31) cis-1,2-Dichloroethene	2.855	61	1849869	132.696	ppbv #	26
34) 2-Butanone	2.855	43	6786931	358.481	ppbv #	53
35) Carbon Tetrachloride	3.761	117	1409	0.069	ppbv	86
36) Benzene	3.661	78	4655	0.181	ppbv #	94
37) 1,2-Dichloroethane	3.221	62	8886	0.591	ppbv #	96
39) 1,2-Dichloropropane	3.962	63	69802	7.425	ppbv #	25
41) Tetrahydrofuran	3.059	42	26513	2.536	ppbv #	41
51) 2-Hexanone	7.251	43	13579448	655.686	ppbv #	30
53) Toluene	6.950	91	5465843	179.711	ppbv	91
58) Ethyl Benzene	9.354	91	59522	1.455	ppbv	98
59) m/p-Xylene	9.529	91	211676	6.454	ppbv	98
60) o-Xylene	9.960	91	59779	1.825	ppbv	97
61) Styrene	9.866	104	7297	0.509	ppbv #	77
64) n-propylbenzene	10.986	120	654	0.043	ppbv #	1
65) tert-Butylbenzene	11.536	119	3299	0.063	ppbv #	75
66) Benzyl Chloride	11.529	91	3398	0.640	ppbv #	72
69) p-Isopropyltoluene	11.924	119	19009	0.307	ppbv	94
71) 2-Chlorotoluene	10.853	91	125985	2.796	ppbv #	46
72) 4-Ethyltoluene	11.122	105	4522	0.113	ppbv #	55

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Instrument :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

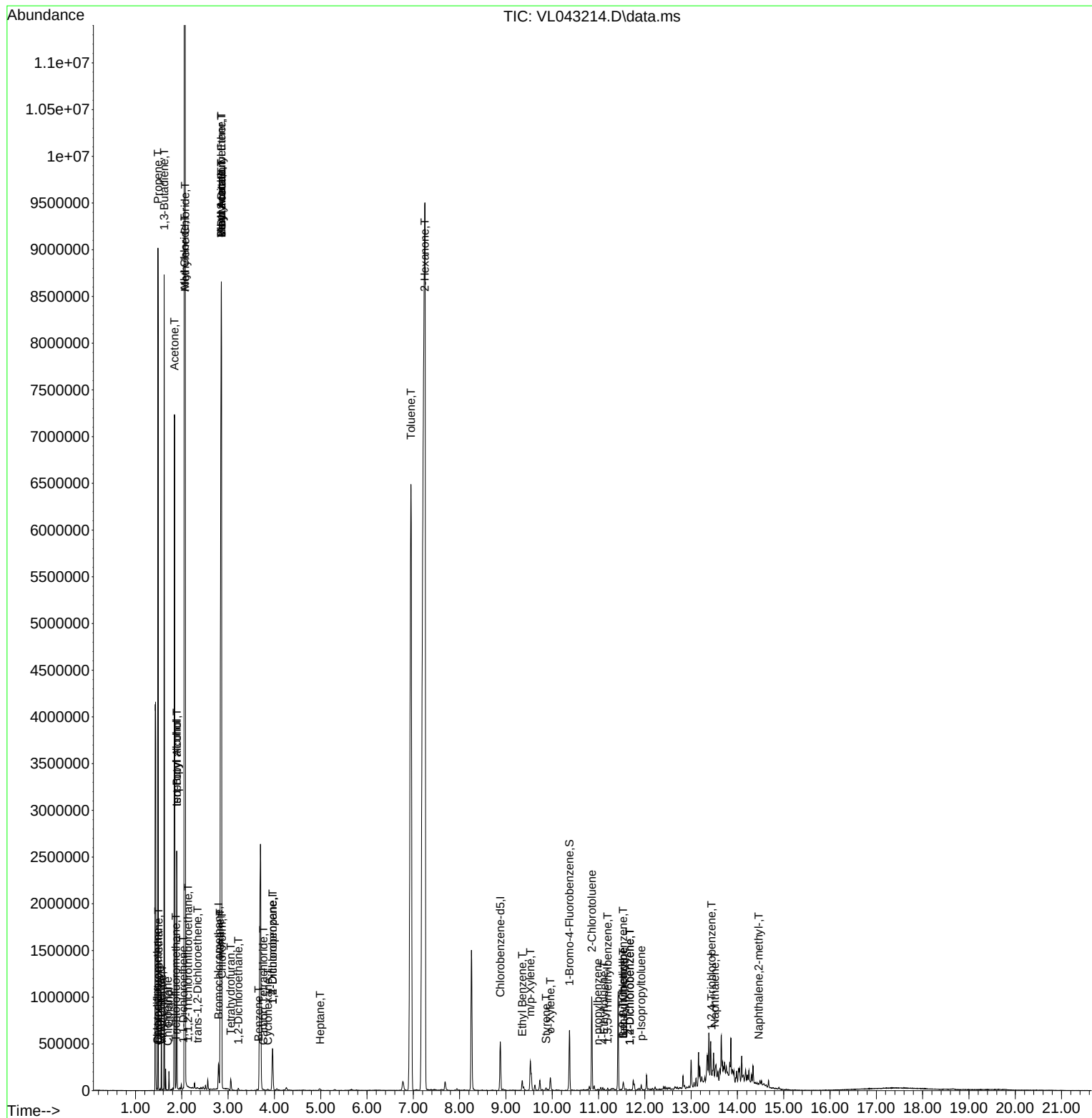
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.199	105	4548	0.136	ppbv	90
74) 1,2,4-Trimethylbenzene	11.533	105	21546	0.590	ppbv #	49
76) 1,4-Dichlorobenzene	11.672	146	1740	0.082	ppbv	86
77) 1,2-Dichlorobenzene	11.672	146	1740	0.085	ppbv	96
79) Naphthalene	13.513	128	3789	0.117	ppbv #	91
80) Naphthalene,2-methyl-	14.459	142	1955	0.229	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.439	180	1283	0.088	ppbv #	94

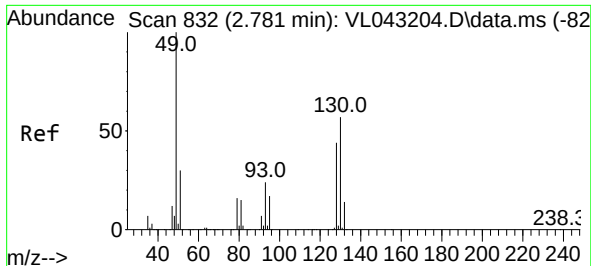
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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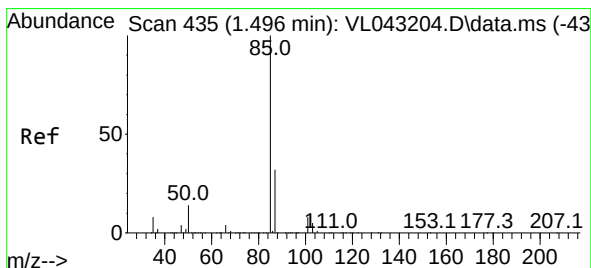
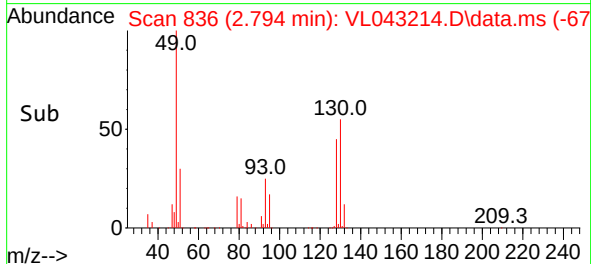
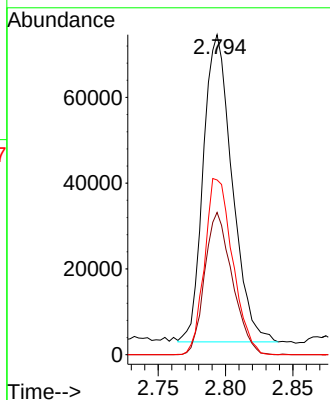
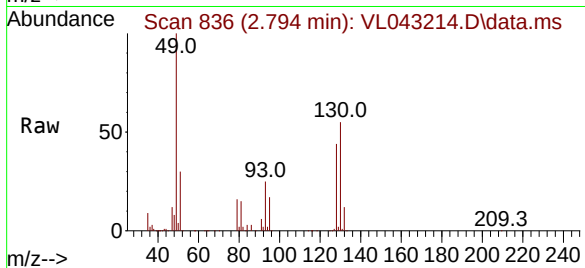




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

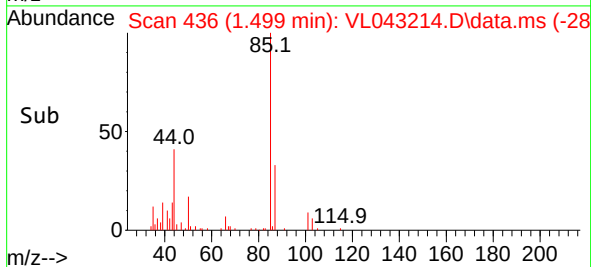
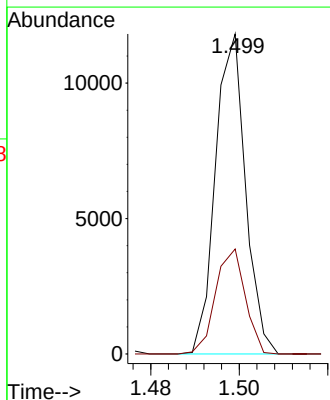
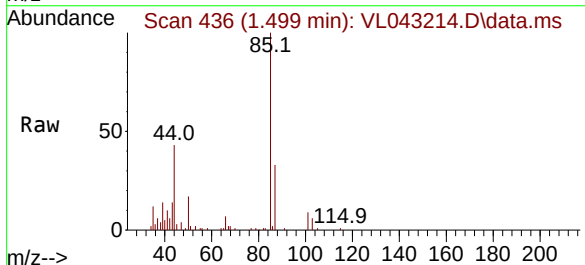
Instrument :
MSVOA_L
ClientSampleId :
IA1

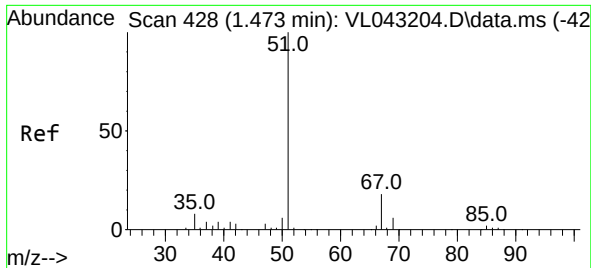
Tgt Ion: 49 Resp: 106759
Ion Ratio Lower Upper
49 100
128 44.2 23.0 69.0
130 55.7 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 85 Resp: 5568
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2





#3

Chlorodifluoromethane

Concen: 0.535 ppbv

RT: 1.473 min Scan# 428

Delta R.T. 0.000 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

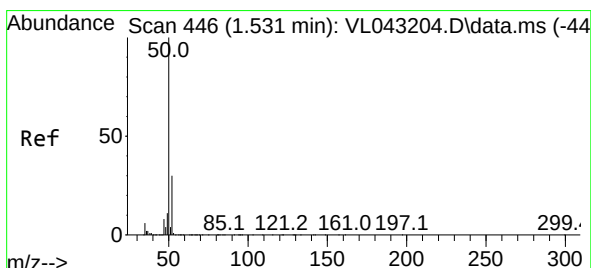
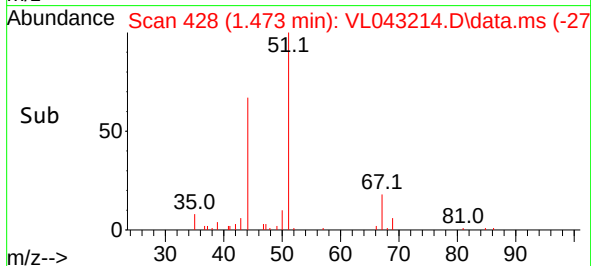
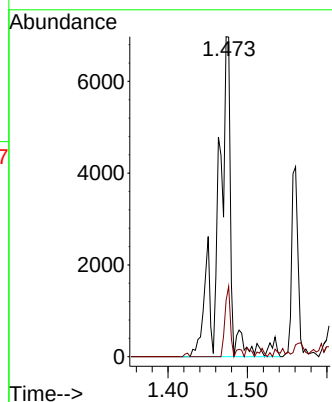
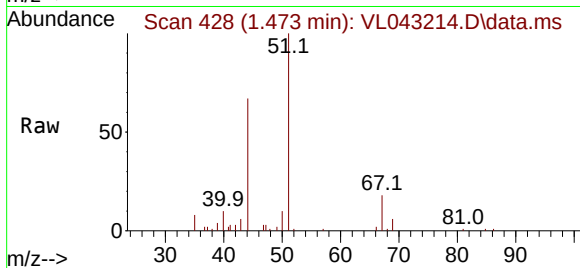
IA1

Tgt Ion: 51 Resp: 7922

Ion Ratio Lower Upper

51 100

67 10.7 14.9 22.3#



#4

Chloromethane

Concen: 0.632 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL043214.D

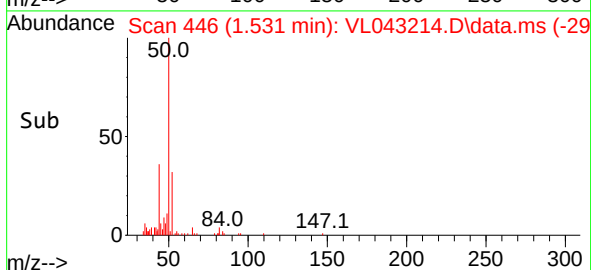
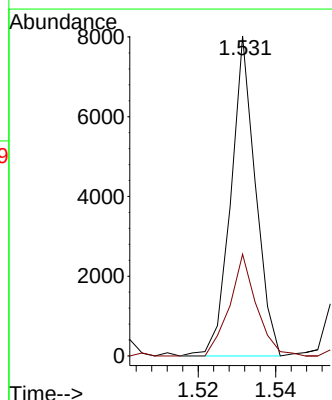
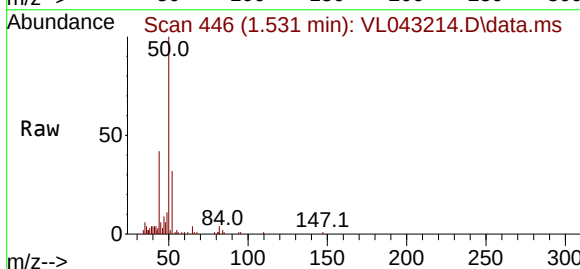
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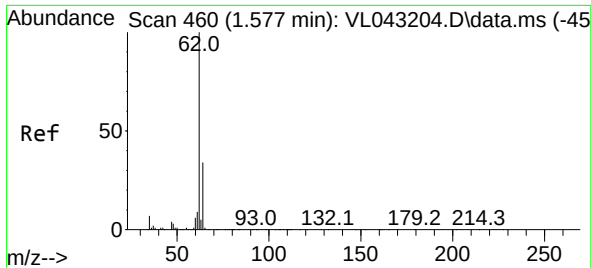
Tgt Ion: 50 Resp: 3558

Ion Ratio Lower Upper

50 100

52 31.8 24.1 36.1

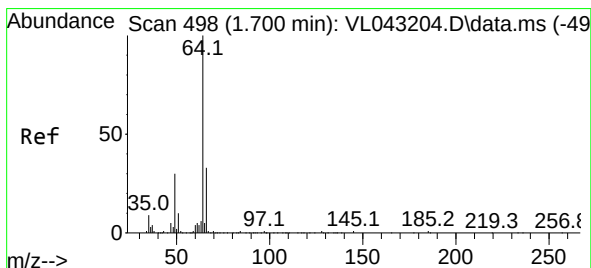
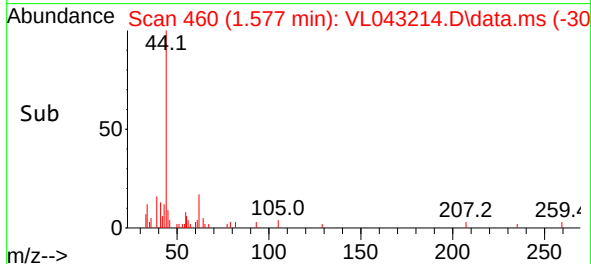
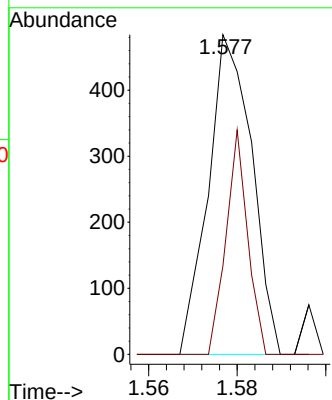
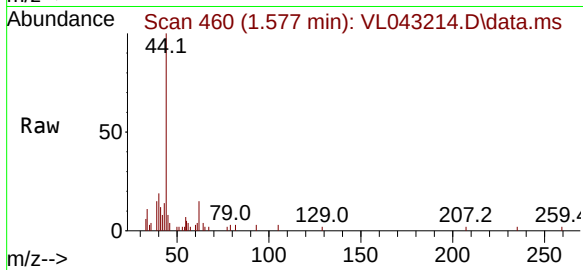




#5
 Vinyl Chloride
 Concen: 0.054 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

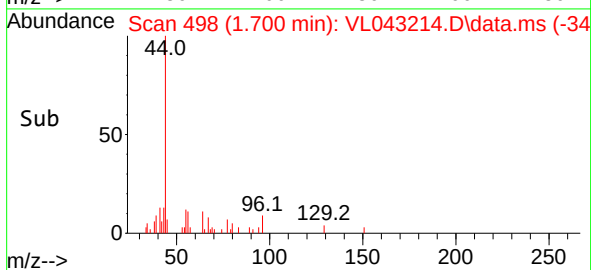
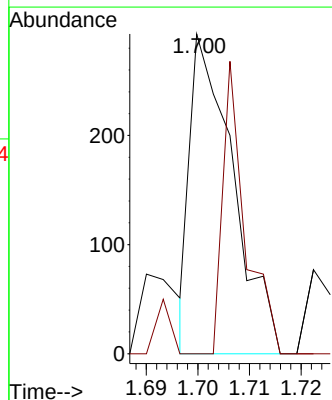
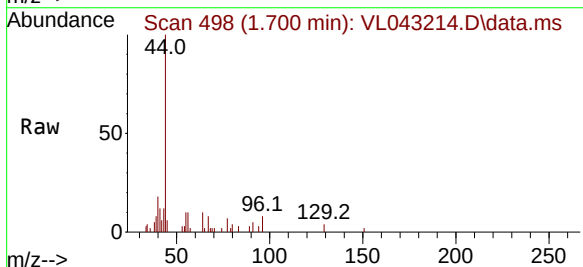
Instrument :
 MSVOA_1
 ClientSampleId :
 1A1

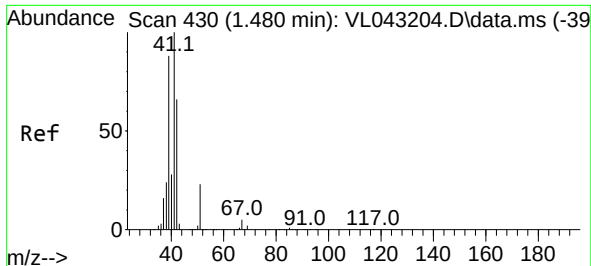
Tgt Ion: 62 Resp: 330
 Ion Ratio Lower Upper
 62 100
 64 27.7 27.3 40.9



#7
 Chloroethane
 Concen: 0.070 ppbv
 RT: 1.700 min Scan# 498
 Delta R.T. 0.000 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

Tgt Ion: 64 Resp: 169
 Ion Ratio Lower Upper
 64 100
 66 0.0 26.8 40.2#





#9

Propene

Concen: 116.578 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

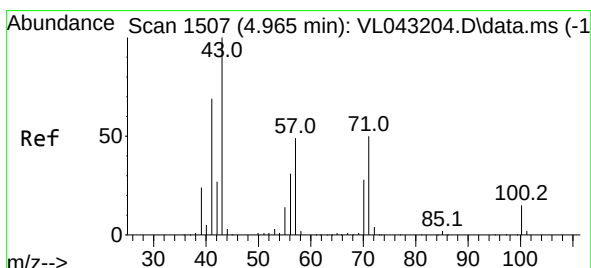
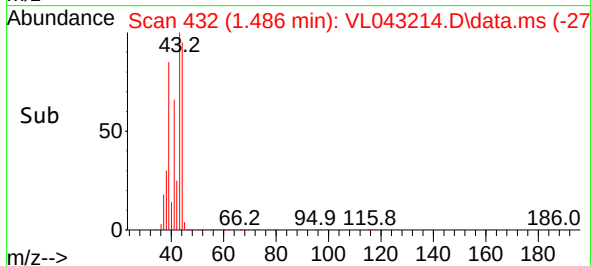
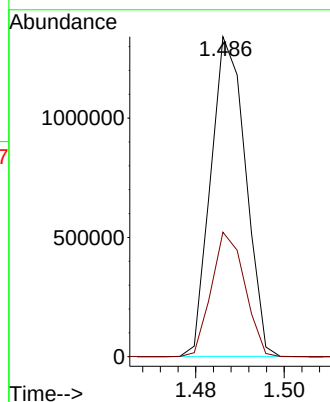
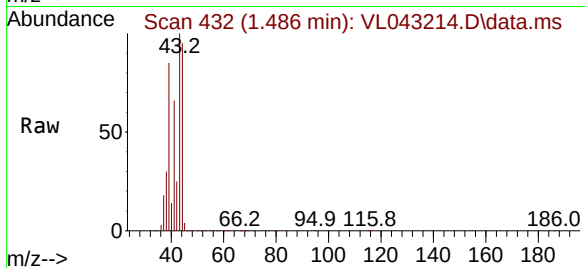
IA1

Tgt Ion: 41 Resp: 733068

Ion Ratio Lower Upper

41 100

42 37.4 3.7 5.5#



#10

Heptane

Concen: 0.220 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.019 min

Lab File: VL043214.D

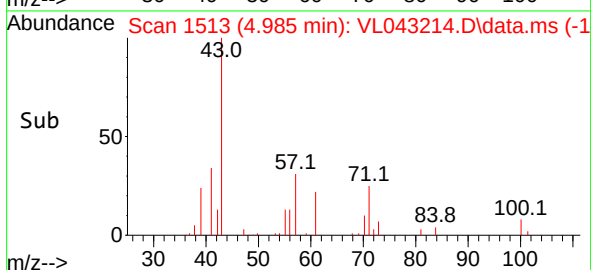
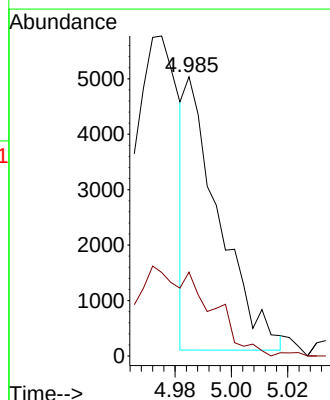
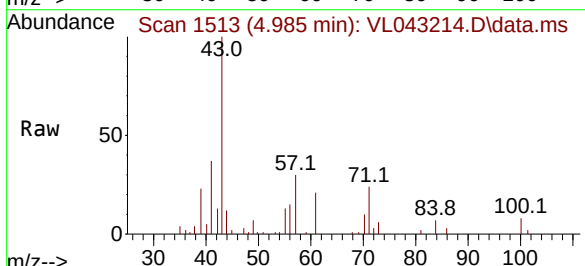
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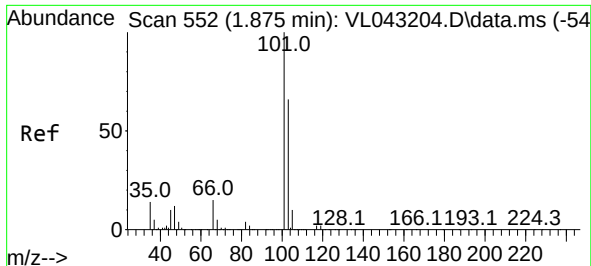
Tgt Ion: 43 Resp: 4118

Ion Ratio Lower Upper

43 100

57 0.0 39.7 59.5#

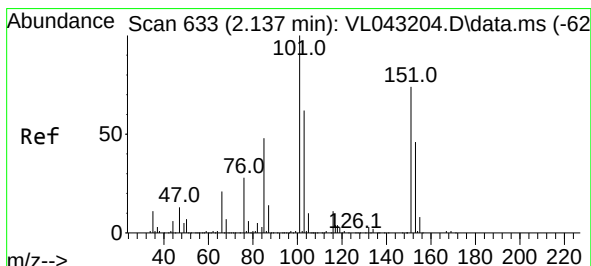
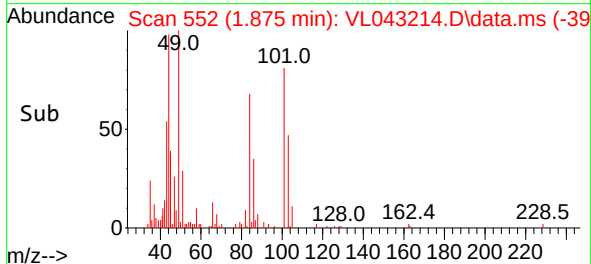
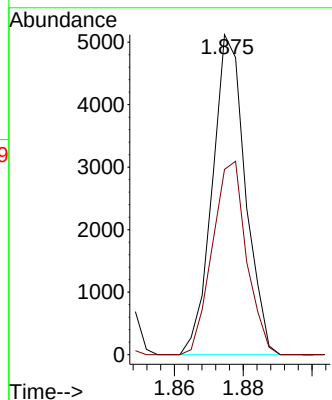
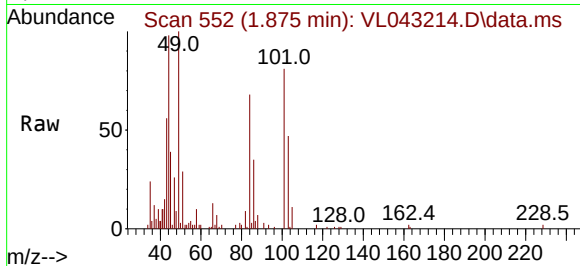




#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

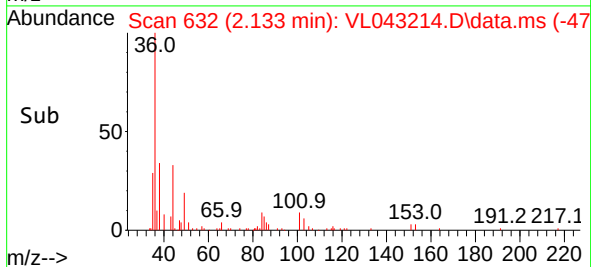
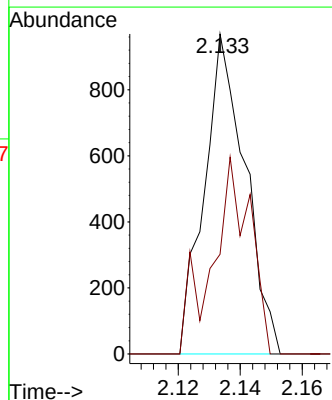
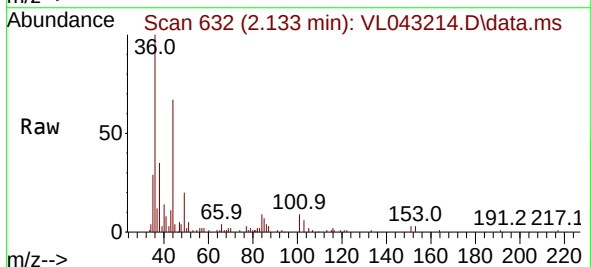
Instrument :
 MSVOA_L
 ClientSampleId :
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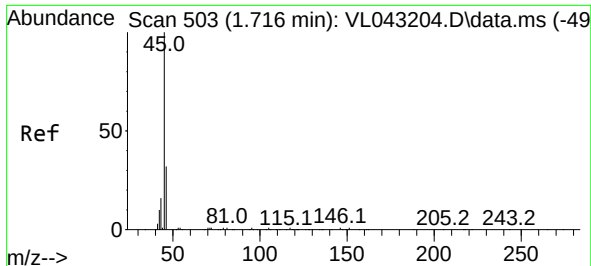
Tgt Ion:101 Resp: 3417
 Ion Ratio Lower Upper
 101 100
 103 57.9 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.003 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

Tgt Ion:101 Resp: 884
 Ion Ratio Lower Upper
 101 100
 151 57.8 59.2 88.8#

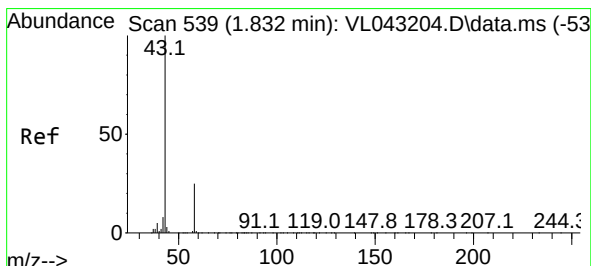
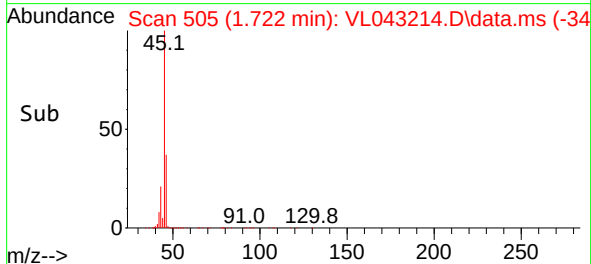
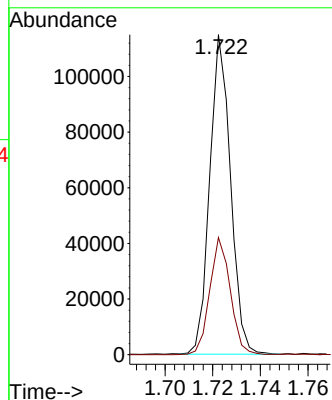
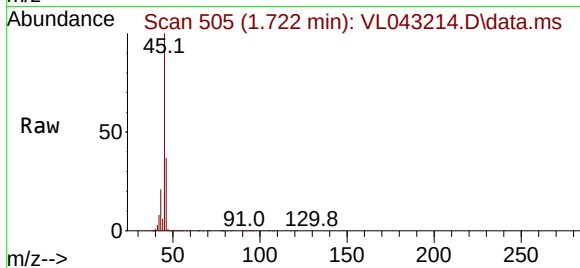




#13
Ethanol
Concen: 31.371 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

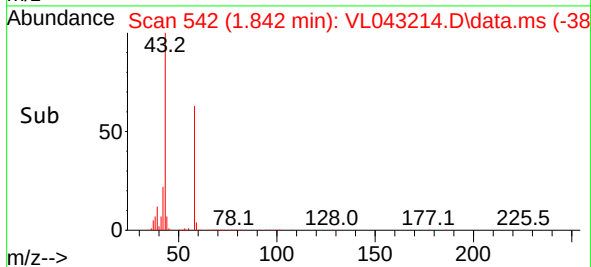
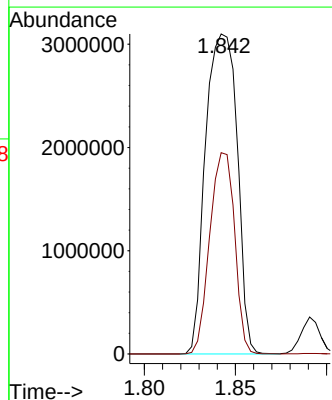
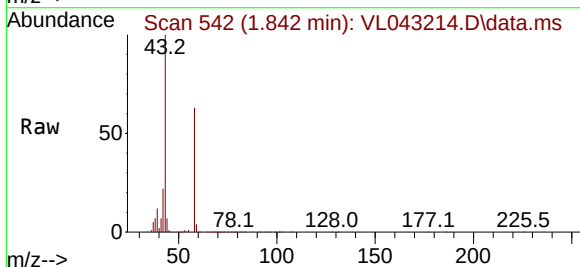
Instrument :
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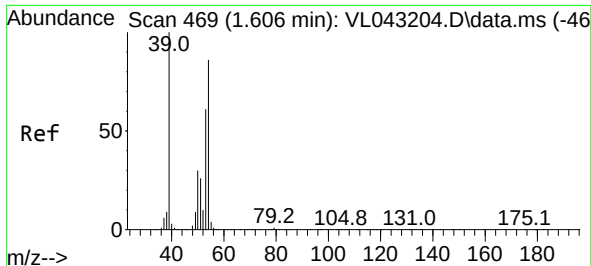
Tgt Ion: 45 Resp: 69367
Ion Ratio Lower Upper
45 100
46 36.6 15.0 59.8



#15
Acetone
Concen: 252.430 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 43 Resp: 3744141
Ion Ratio Lower Upper
43 100
58 49.5 20.7 31.1#

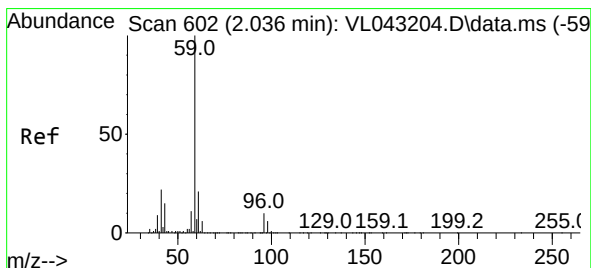
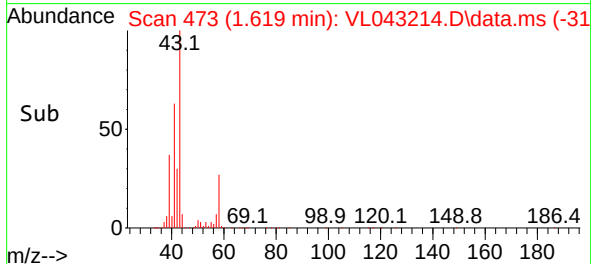
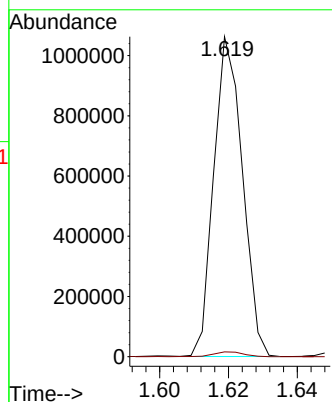
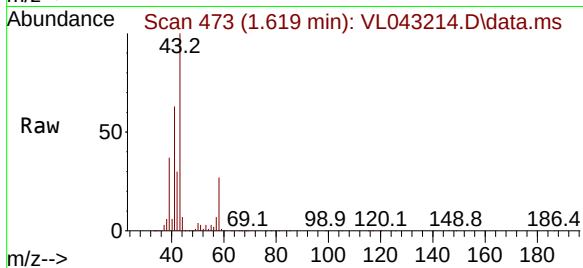




#16
1,3-Butadiene
Concen: 93.148 ppbv
RT: 1.619 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

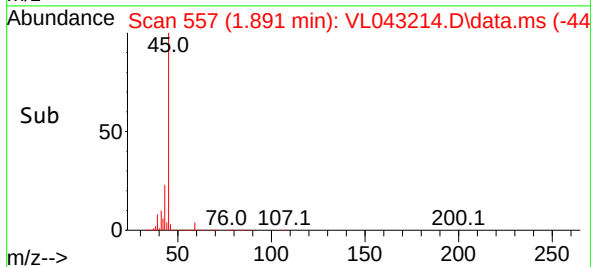
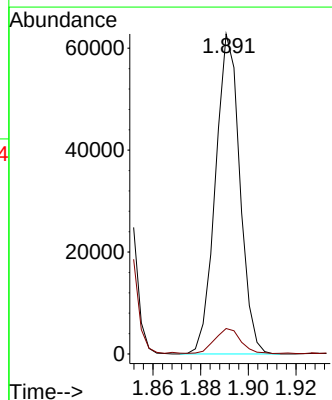
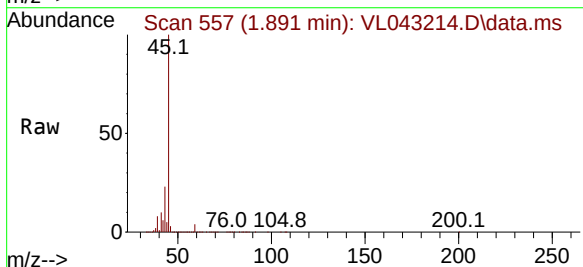
Instrument :
MSVOA_L
ClientSampleId :
IA1

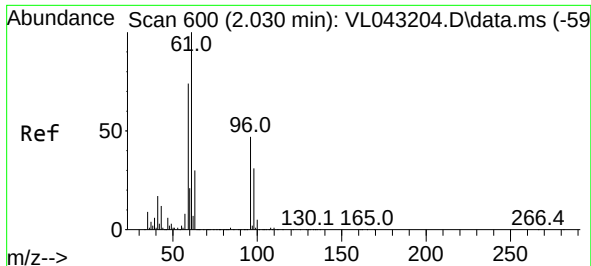
Tgt Ion: 39 Resp: 615945
Ion Ratio Lower Upper
39 100
54 1.6 59.4 89.2#



#17
tert-Butyl alcohol
Concen: 2.293 ppbv
RT: 1.891 min Scan# 557
Delta R.T. -0.146 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 59 Resp: 44634
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#18

1,1-Dichloroethene

Concen: 0.415 ppbv

RT: 2.033 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_1

ClientSampleId :

IA1

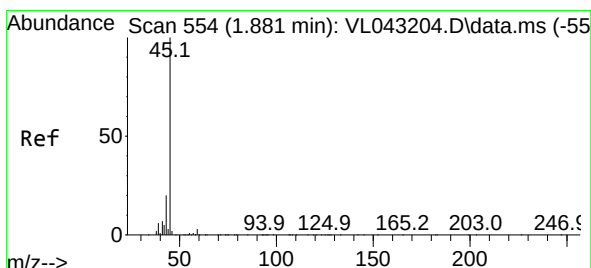
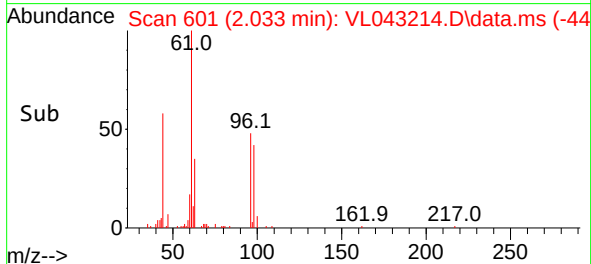
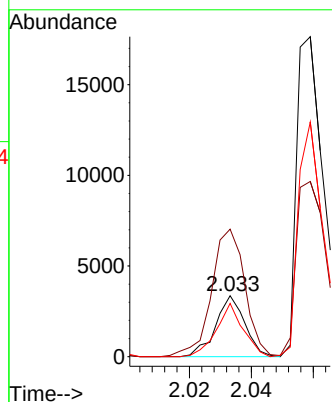
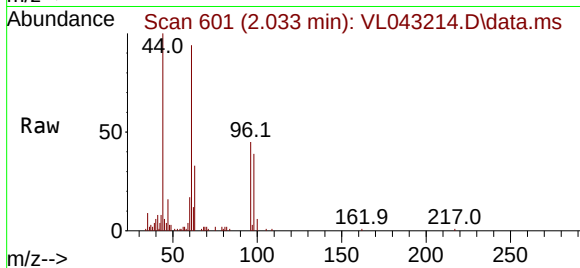
Tgt Ion: 96 Resp: 2201

Ion Ratio Lower Upper

96 100

61 207.4 170.6 255.8

98 87.5 52.2 78.4#



#19

Isopropyl Alcohol

Concen: 136.866 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.010 min

Lab File: VL043214.D

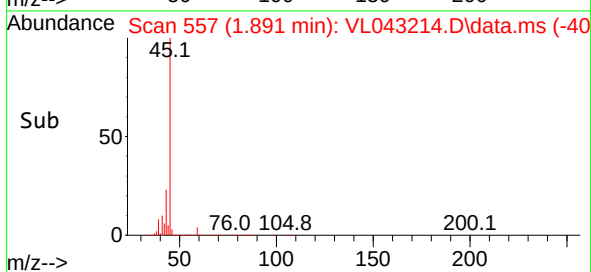
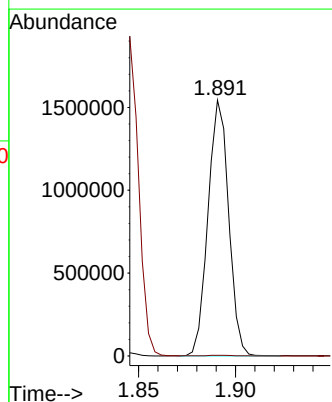
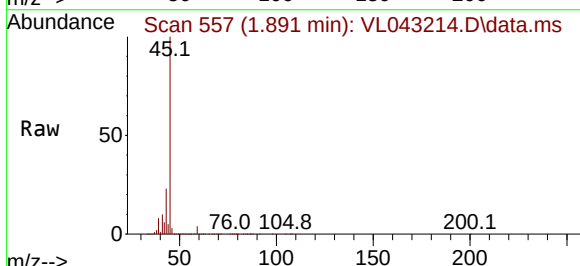
Acq: 18 Nov 2025 15:57

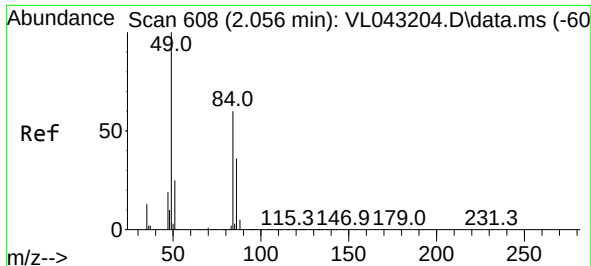
Tgt Ion: 45 Resp: 1147126

Ion Ratio Lower Upper

45 100

58 0.0 31.3 46.9#

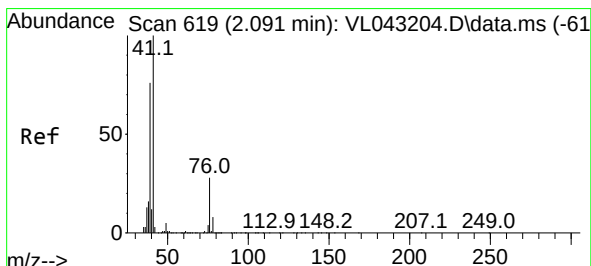
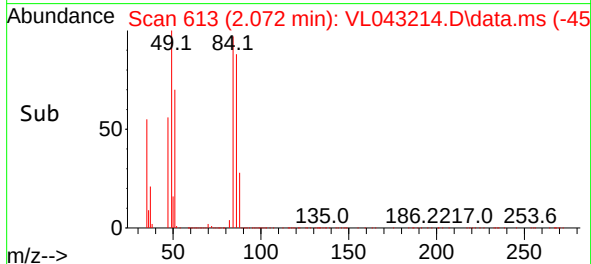
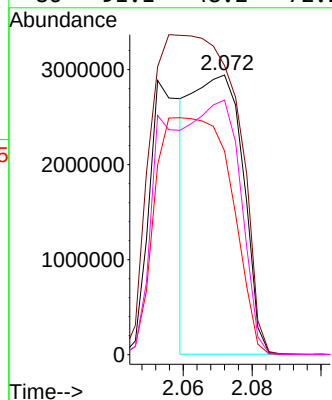
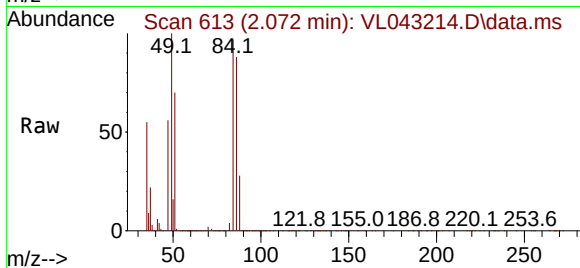




#20
Methylene Chloride
Concen: 765.687 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.016 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

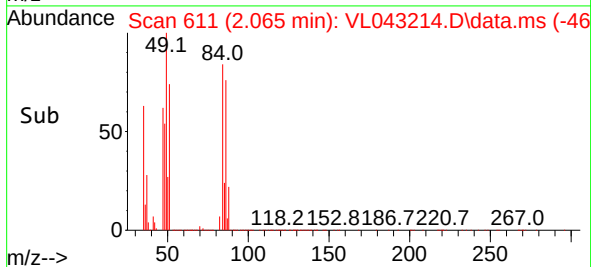
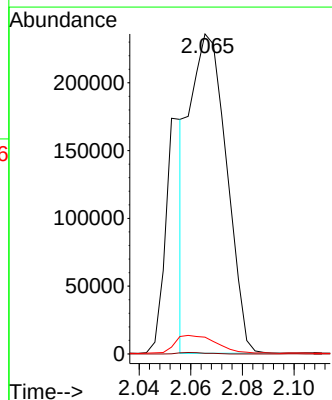
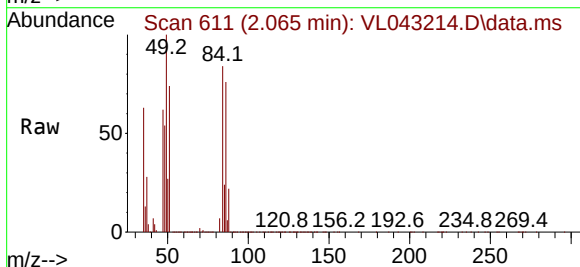
Instrument :
MSVOA_L
ClientSampleId :
IA1

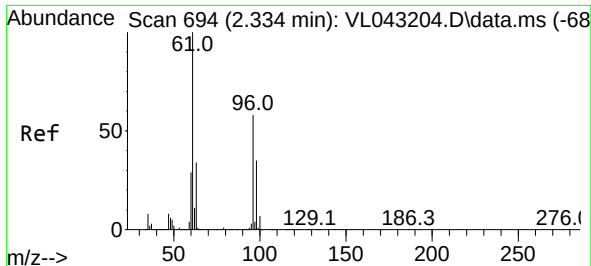
Tgt Ion: 84 Resp: 3087248
Ion Ratio Lower Upper
84 100
49 103.2 132.9 199.3#
51 72.9 34.8 52.2#
86 91.1 48.2 72.2#



#21
Allyl Chloride
Concen: 23.392 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.026 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 41 Resp: 233436
Ion Ratio Lower Upper
41 100
76 0.3 22.1 33.1#
39 0.0 61.0 91.4#

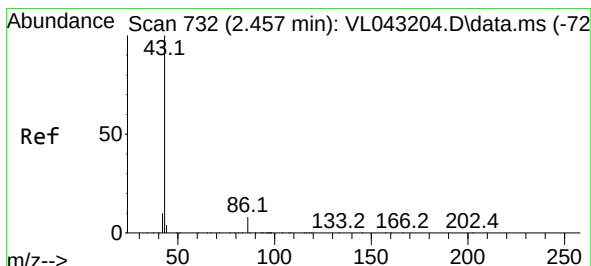
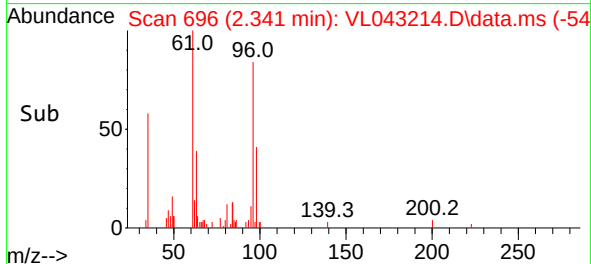
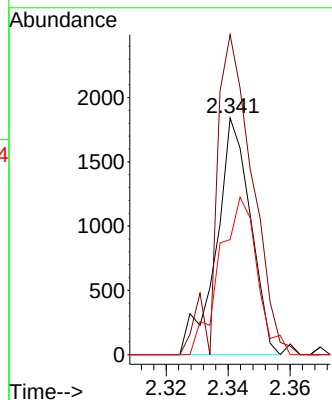
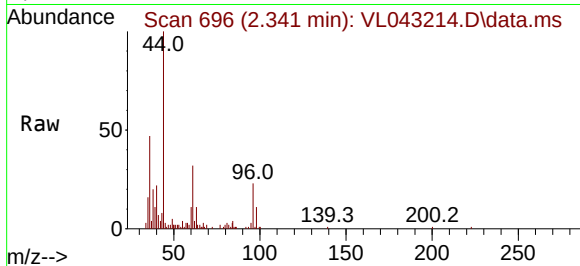




#22
trans-1,2-Dichloroethene
Concen: 0.233 ppbv
RT: 2.341 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

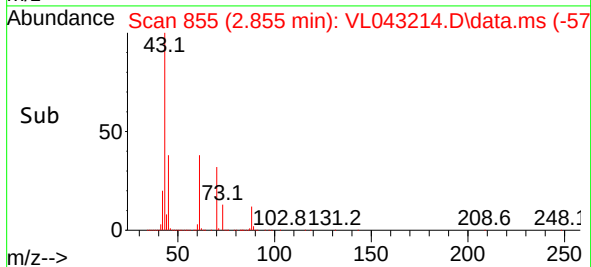
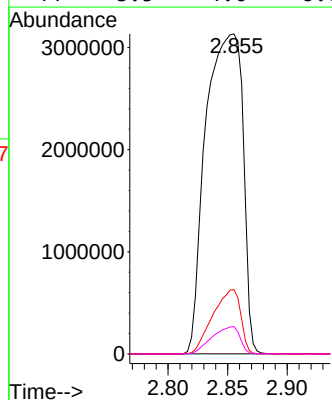
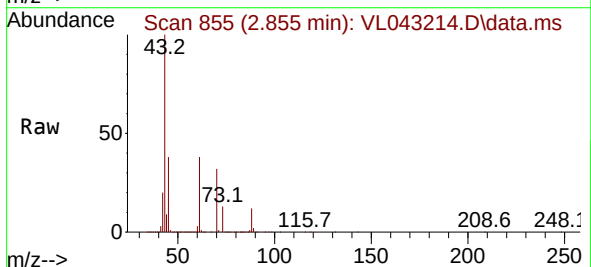
Instrument :
MSVOA_L
ClientSampleId :
IA1

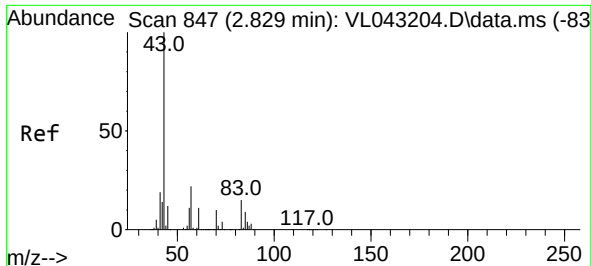
Tgt Ion: 96 Resp: 1410
Ion Ratio Lower Upper
96 100
61 131.8 139.0 208.6#
98 48.6 49.4 74.2#



#23
Vinyl Acetate
Concen: 379.024 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.398 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 43 Resp: 6786931
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.2#
42 20.1 8.0 12.0#
44 8.5 4.0 6.0#

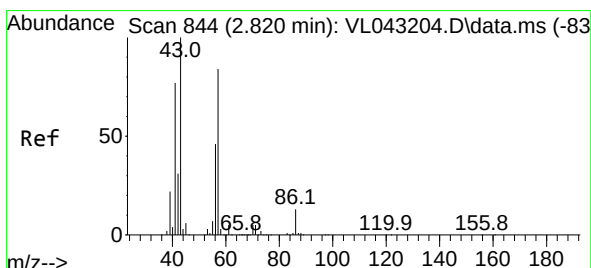
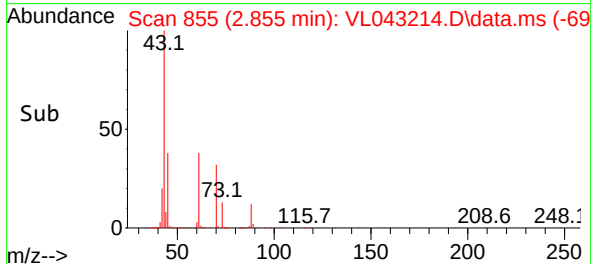
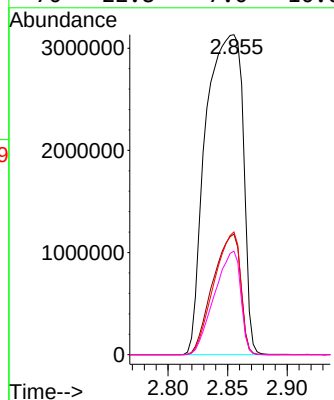
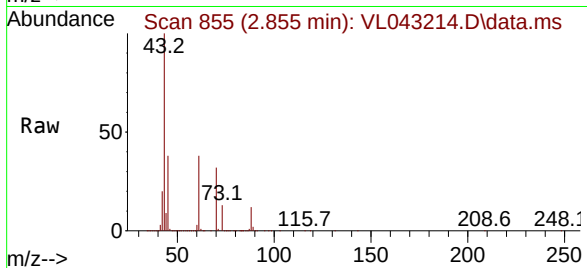




#25
Ethyl Acetate
Concen: 212.157 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.026 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

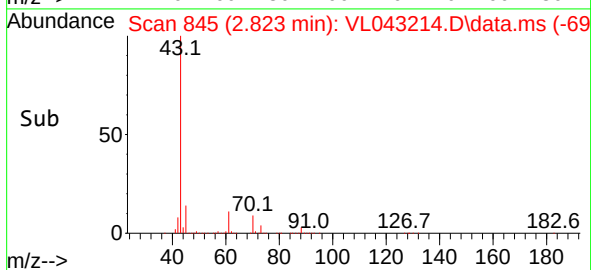
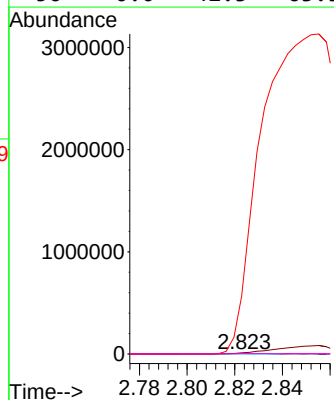
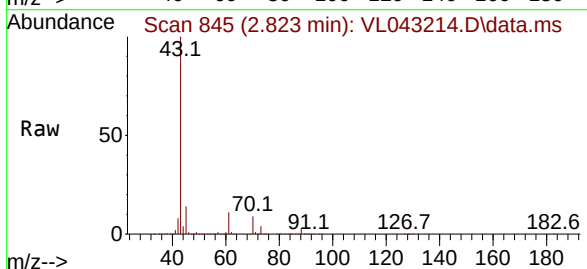
Instrument :
MSVOA_L
ClientSampleId :
IA1

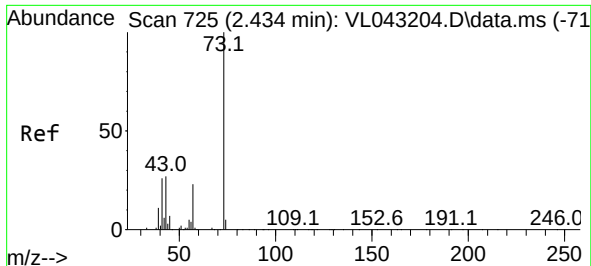
Tgt Ion: 43 Resp: 6786931
Ion Ratio Lower Upper
43 100
45 28.2 8.1 12.1#
61 27.3 7.0 10.4#
70 22.8 7.0 10.6#



#26
Hexane
Concen: 0.336 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 57 Resp: 4707
Ion Ratio Lower Upper
57 100
41 0.0 74.6 111.8#
43 0.0 179.0 268.4#
56 0.0 42.3 63.5#

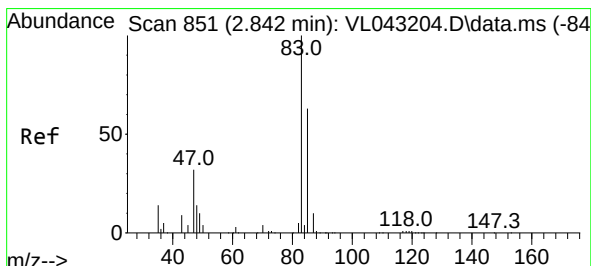
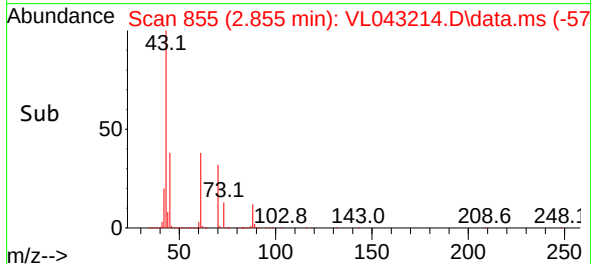
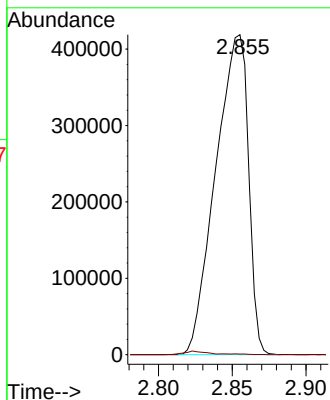
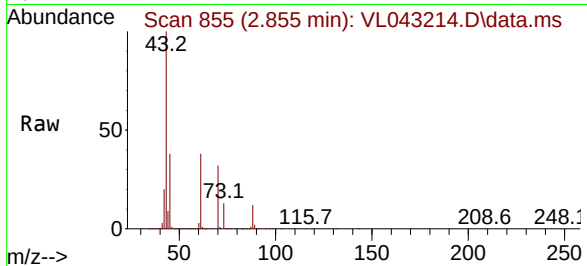




#28
Methyl tert-Butyl Ether
Concen: 93.753 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.421 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

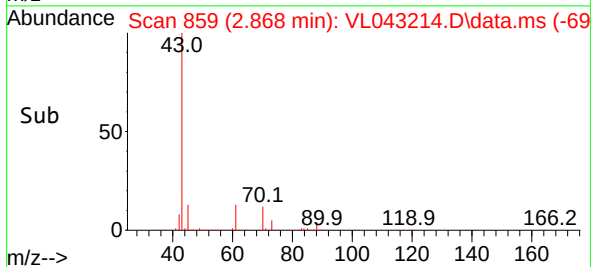
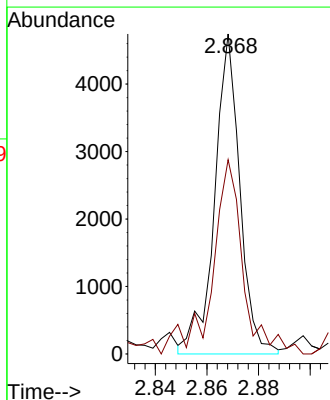
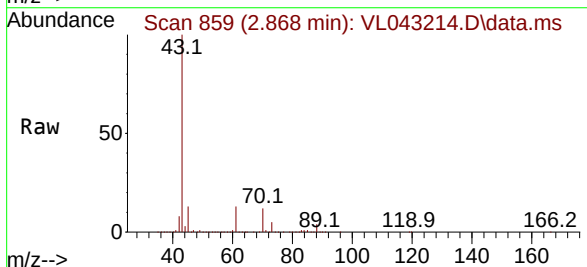
Instrument :
MSVOA_L
ClientSampleId :
IA1

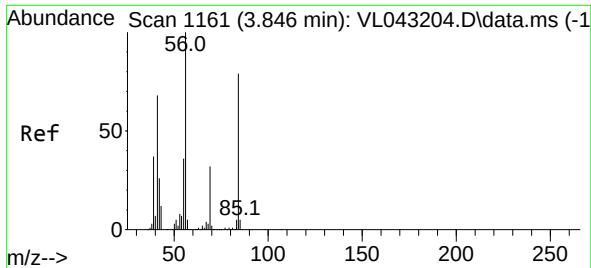
Tgt Ion: 73 Resp: 645435
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#



#29
Chloroform
Concen: 0.162 ppbv
RT: 2.868 min Scan# 859
Delta R.T. 0.026 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 83 Resp: 3234
Ion Ratio Lower Upper
83 100
85 55.3 50.5 75.7

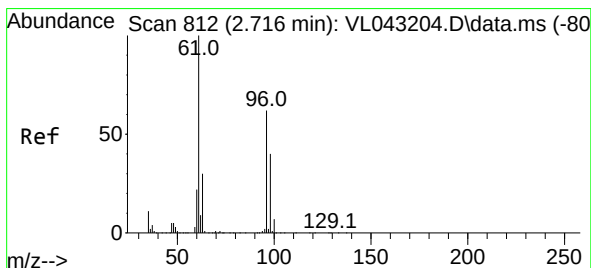
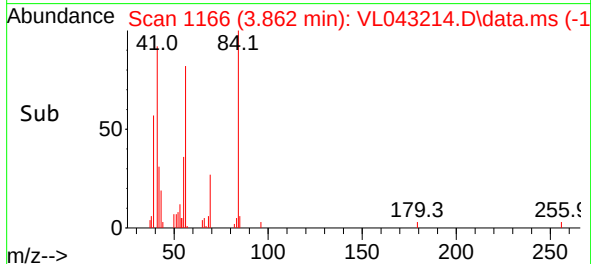
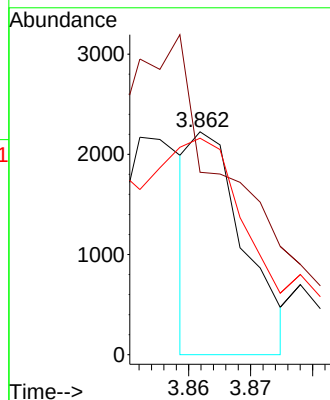
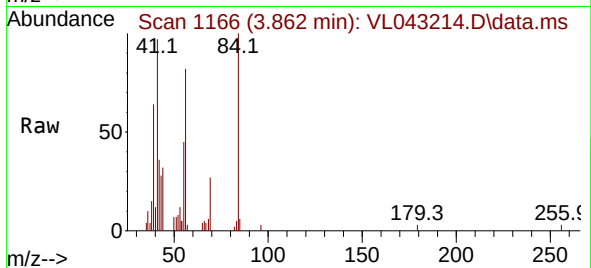




#30
Cyclohexane
Concen: 0.111 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

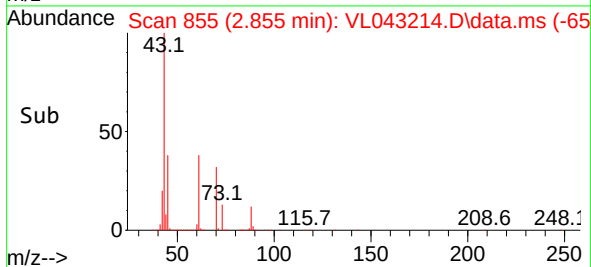
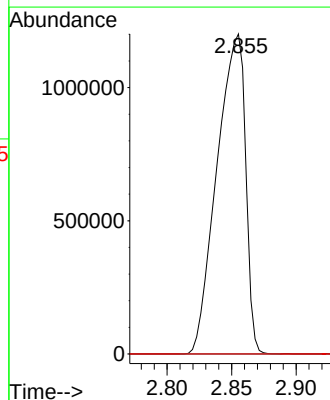
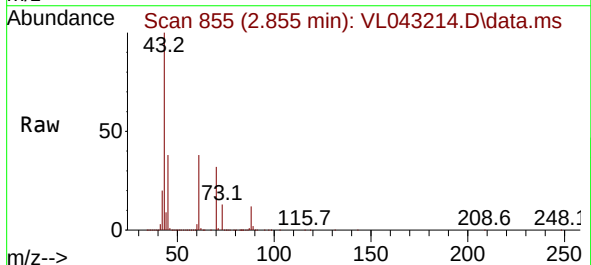
Instrument :
MSVOA_L
ClientSampleId :
IA1

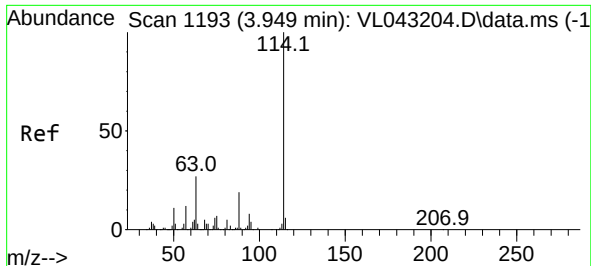
Tgt Ion: 84 Resp: 1306
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 0.0 69.0 103.6#



#31
cis-1,2-Dichloroethene
Concen: 132.696 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.139 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 61 Resp: 1849869
Ion Ratio Lower Upper
61 100
96 0.0 49.3 73.9#
98 0.0 32.1 48.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

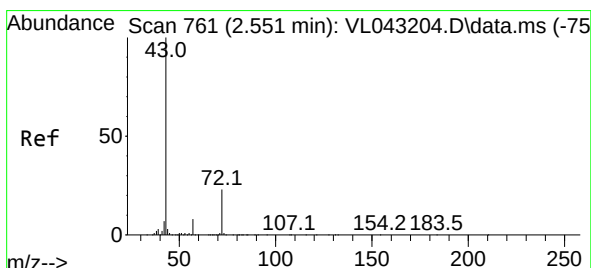
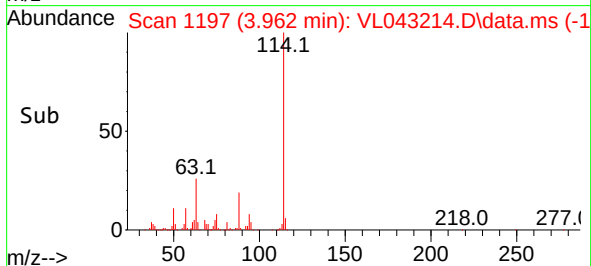
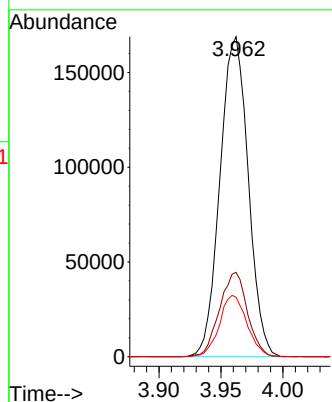
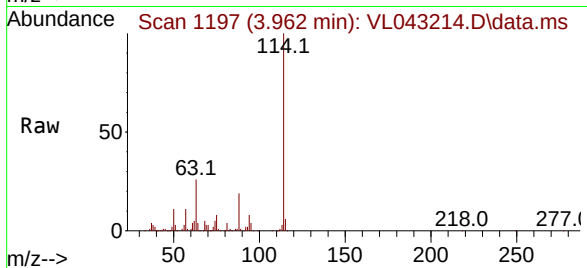
Tgt Ion:114 Resp: 268208

Ion Ratio Lower Upper

114 100

63 26.0 21.0 31.6

88 18.7 14.9 22.3



#34

2-Butanone

Concen: 358.481 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.304 min

Lab File: VL043214.D

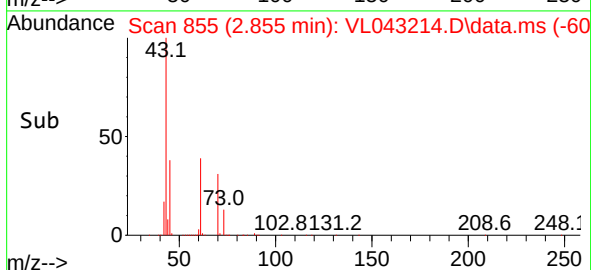
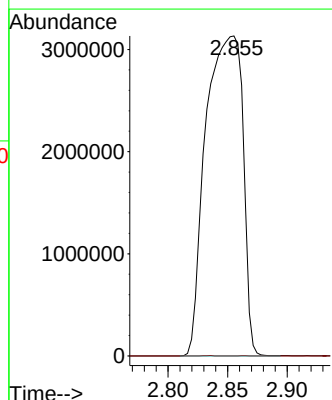
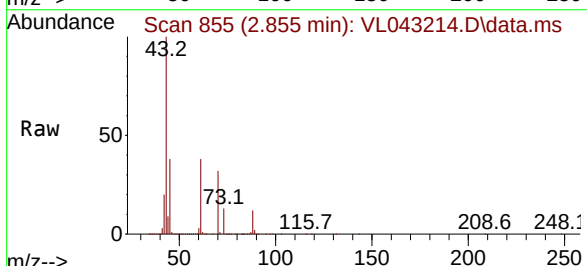
Acq: 18 Nov 2025 15:57

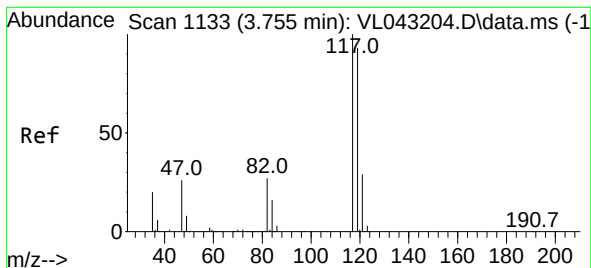
Tgt Ion: 43 Resp: 6786931

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#





#35

Carbon Tetrachloride

Concen: 0.069 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

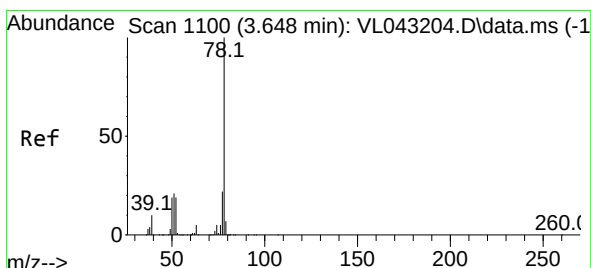
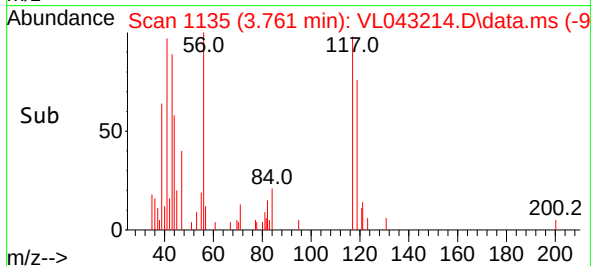
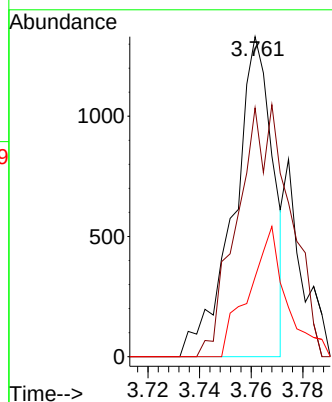
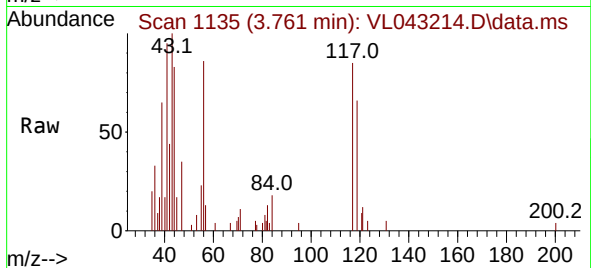
Tgt Ion:117 Resp: 1409

Ion Ratio Lower Upper

117 100

119 77.8 74.6 112.0

121 24.9 23.2 34.8



#36

Benzene

Concen: 0.181 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.013 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

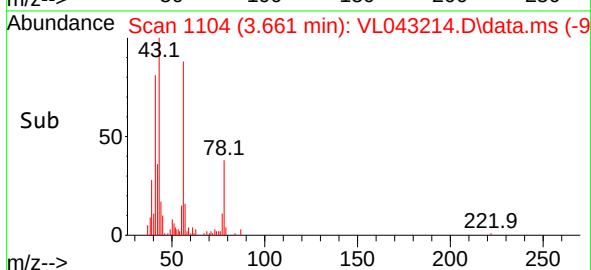
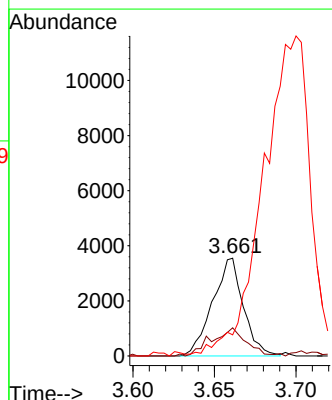
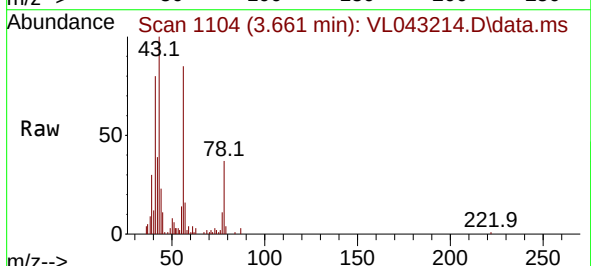
Tgt Ion: 78 Resp: 4655

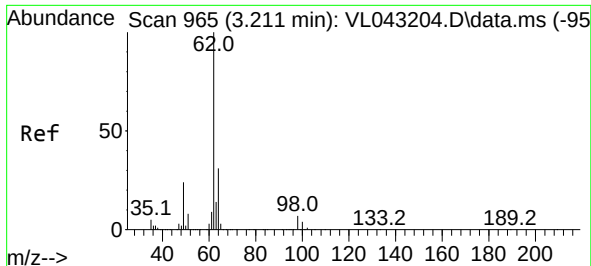
Ion Ratio Lower Upper

78 100

77 26.8 17.5 26.3#

50 18.4 15.5 23.3

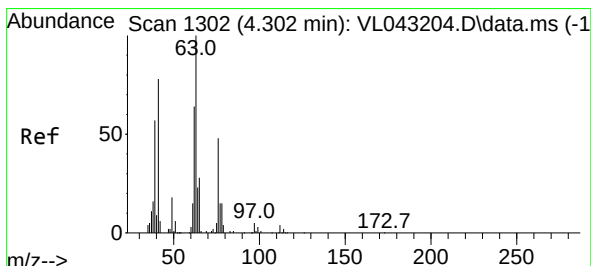
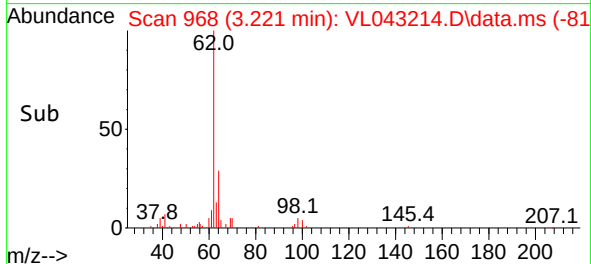
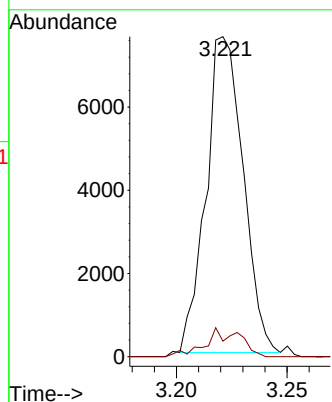
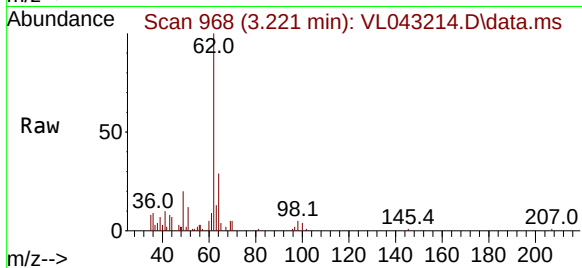




#37
 1,2-Dichloroethane
 Concen: 0.591 ppbv
 RT: 3.221 min Scan# 90
 Delta R.T. 0.010 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

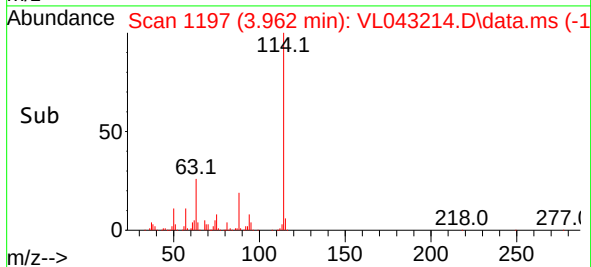
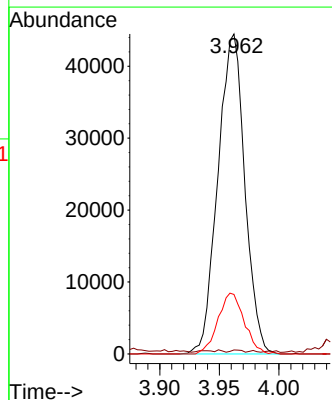
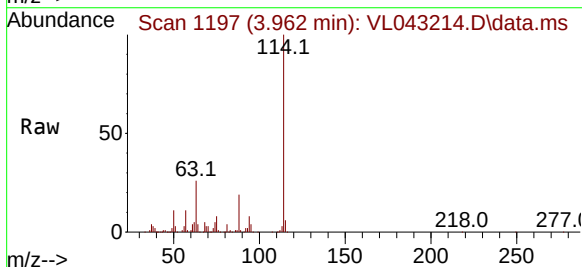
Instrument :
 MSVOA_1
 ClientSampleId :
 1A1

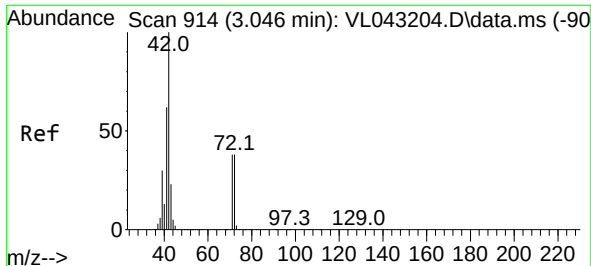
Tgt Ion: 62 Resp: 8886
 Ion Ratio Lower Upper
 62 100
 98 8.3 5.5 8.3#



#39
 1,2-Dichloropropane
 Concen: 7.425 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.340 min
 Lab File: VL043214.D
 Acq: 18 Nov 2025 15:57

Tgt Ion: 63 Resp: 69802
 Ion Ratio Lower Upper
 63 100
 41 0.5 62.6 93.8#
 62 18.6 51.0 76.6#

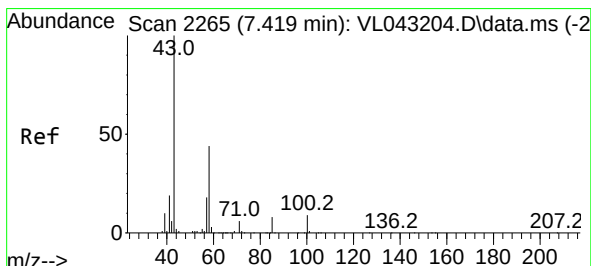
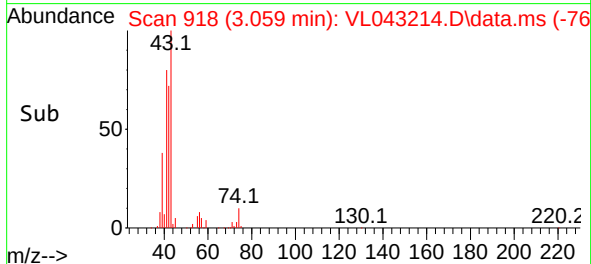
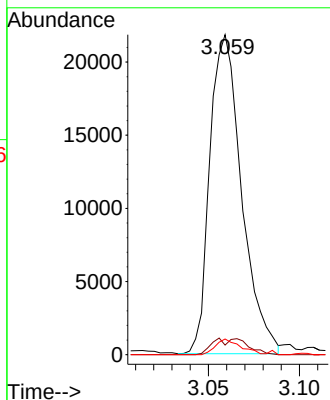
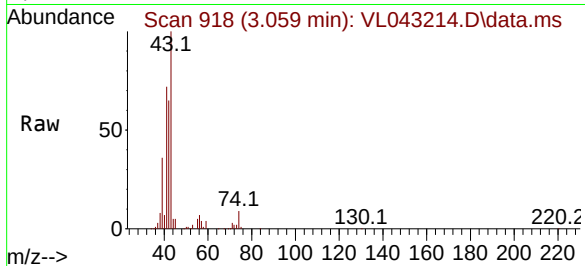




#41
Tetrahydrofuran
Concen: 2.536 ppbv
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

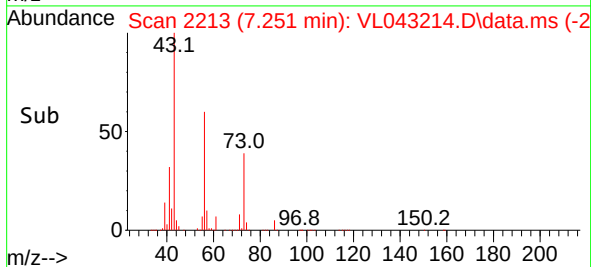
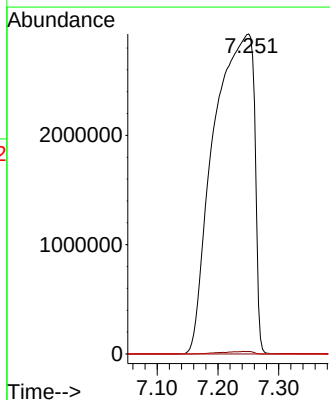
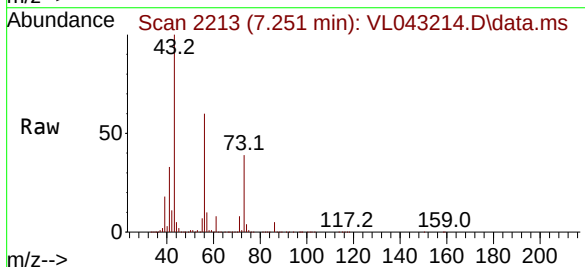
Instrument :
MSVOA_L
ClientSampleId :
IA1

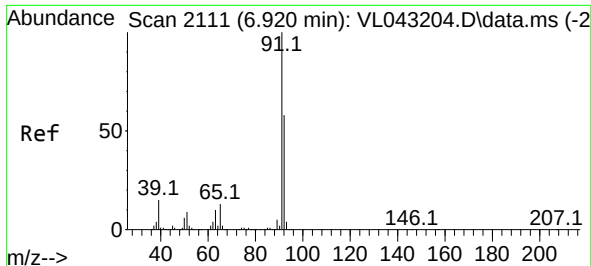
Tgt Ion: 42 Resp: 26513
Ion Ratio Lower Upper
42 100
72 5.6 30.6 46.0#
71 0.0 30.5 45.7#



#51
2-Hexanone
Concen: 655.686 ppbv
RT: 7.251 min Scan# 2213
Delta R.T. -0.168 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 43 Resp:13579448
Ion Ratio Lower Upper
43 100
58 0.6 38.4 57.6#
98 0.0 0.0 0.0#

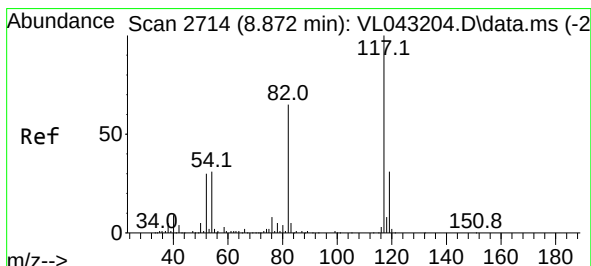
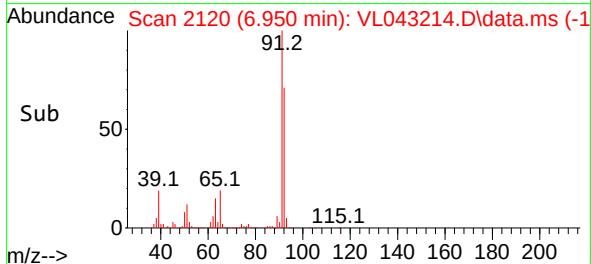
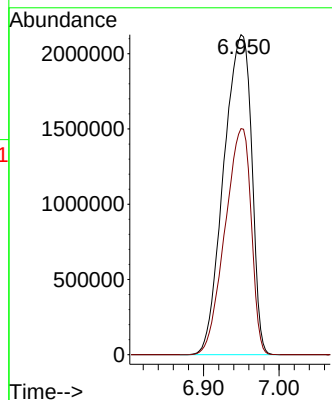
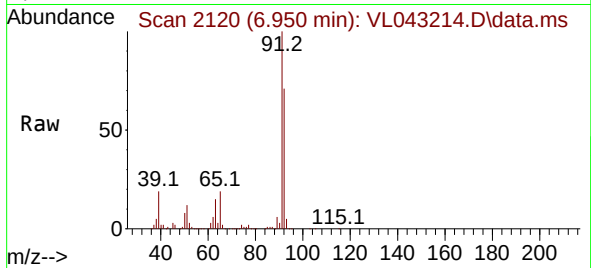




#53
Toluene
Concen: 179.711 ppbv
RT: 6.950 min Scan# 2111
Delta R.T. 0.029 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

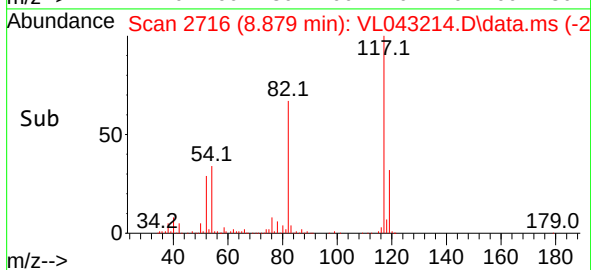
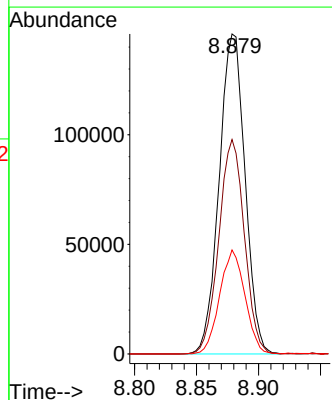
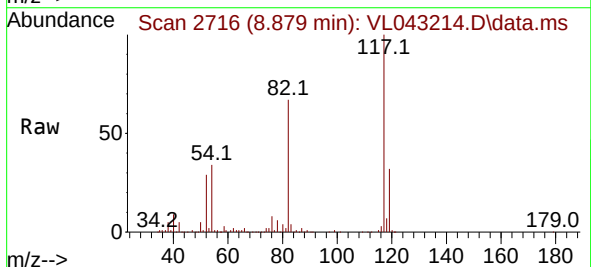
Instrument :
MSVOA_L
ClientSampleId :
IA1

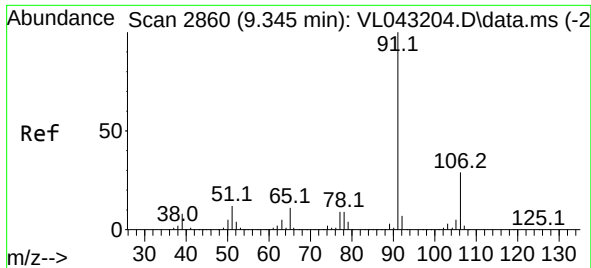
Tgt Ion: 91 Resp: 5465843
Ion Ratio Lower Upper
91 100
92 66.1 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.006 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 117 Resp: 212527
Ion Ratio Lower Upper
117 100
82 66.1 56.1 84.1
119 32.0 25.0 37.6

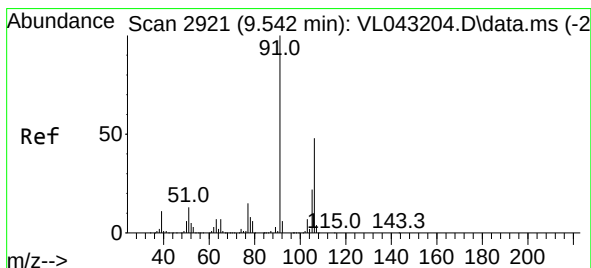
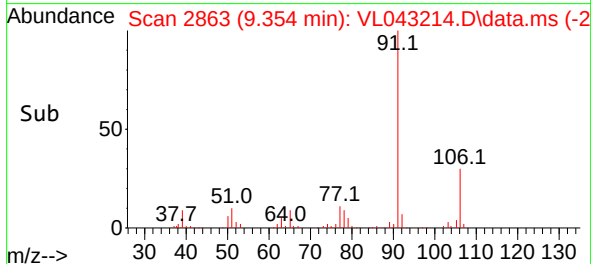
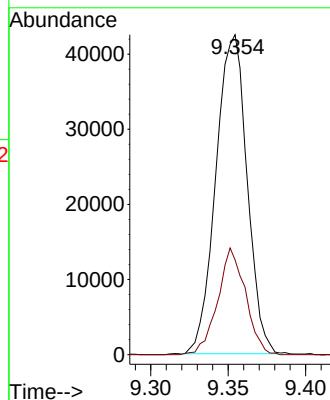
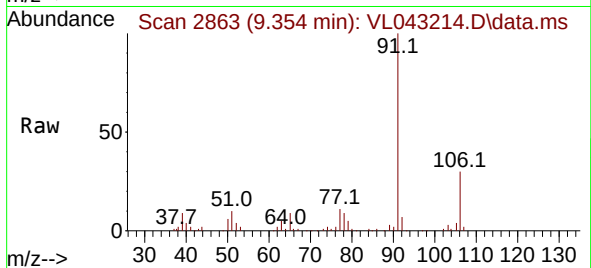




#58
Ethyl Benzene
Concen: 1.455 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

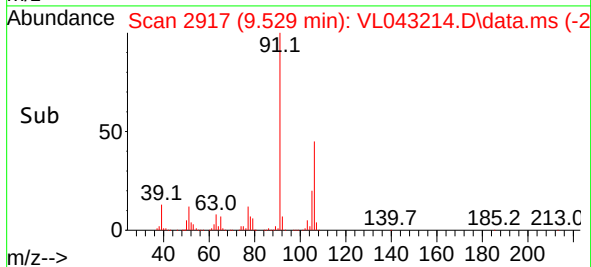
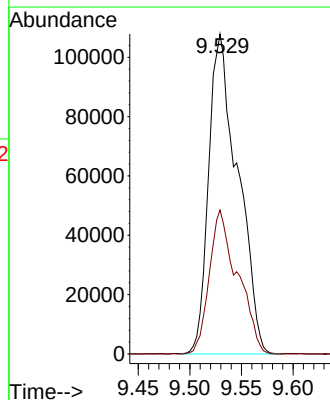
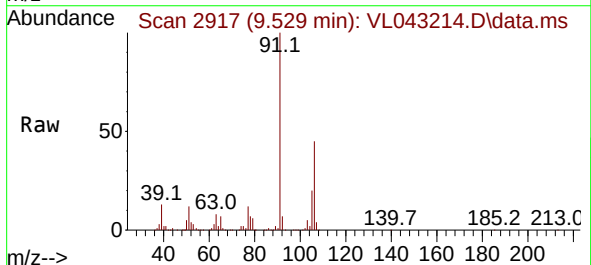
Instrument :
MSVOA_1
ClientSampleId :
IA1

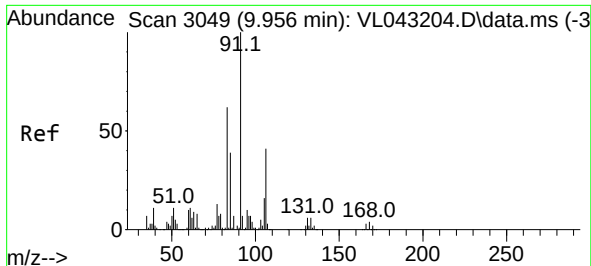
Tgt Ion: 91 Resp: 59522
Ion Ratio Lower Upper
91 100
106 29.7 22.8 34.2



#59
m/p-Xylene
Concen: 6.454 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 91 Resp: 211676
Ion Ratio Lower Upper
91 100
106 43.7 36.1 54.1

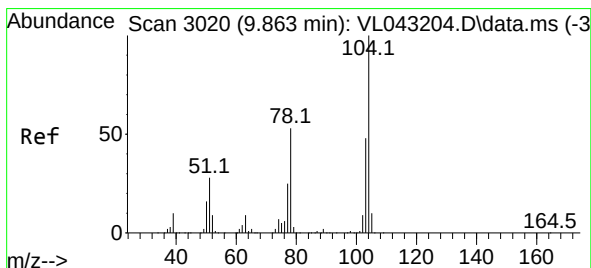
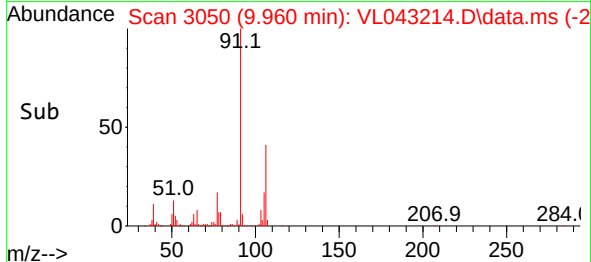
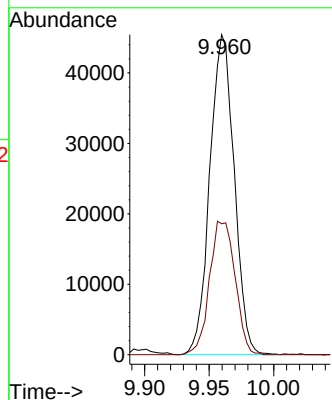
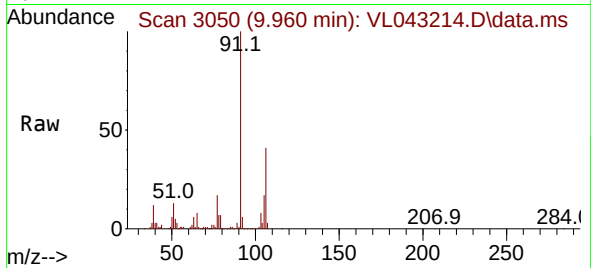




#60
o-Xylene
Concen: 1.825 ppbv
RT: 9.960 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

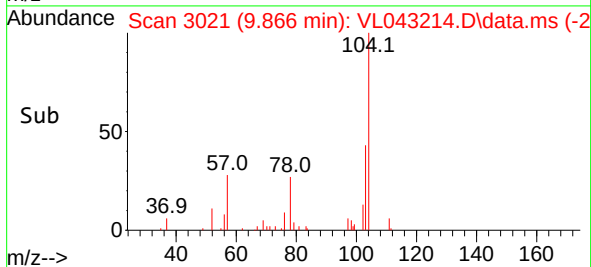
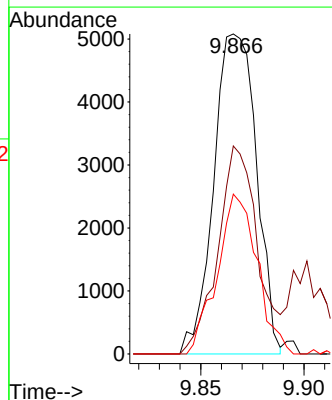
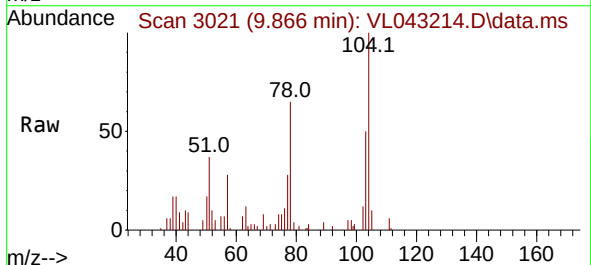
Instrument :
MSVOA_1
ClientSampleId :
1A1

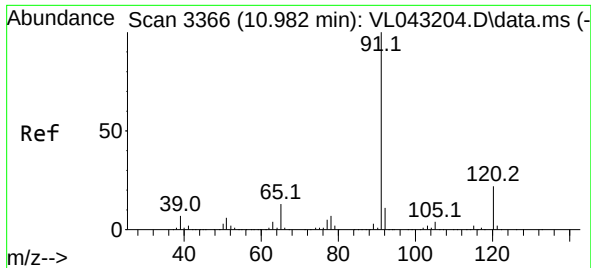
Tgt Ion: 91 Resp: 59779
Ion Ratio Lower Upper
91 100
106 43.6 20.9 62.8



#61
Styrene
Concen: 0.509 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 104 Resp: 7297
Ion Ratio Lower Upper
104 100
78 83.0 42.1 63.1#
103 47.1 37.2 55.8

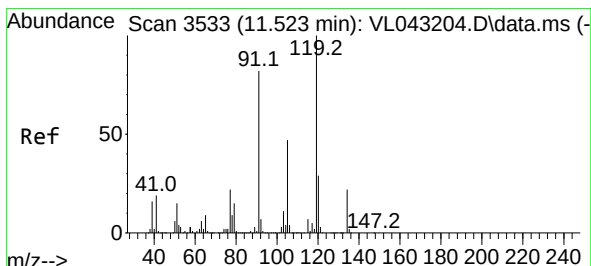
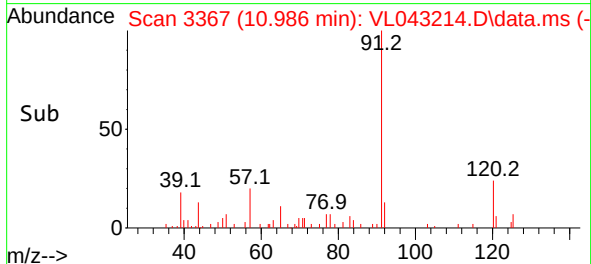
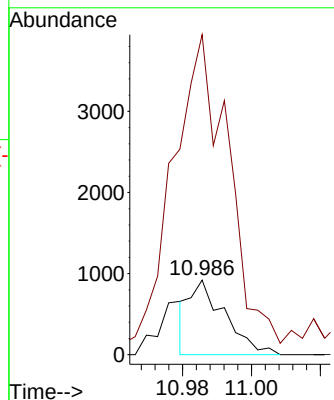
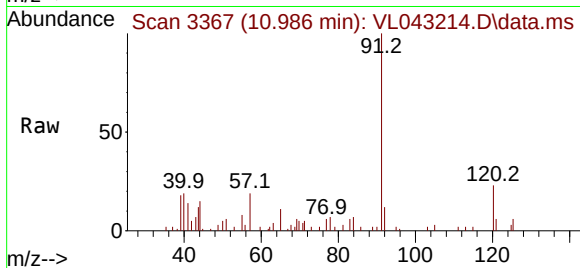




#64
n-propylbenzene
Concen: 0.043 ppbv
RT: 10.986 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

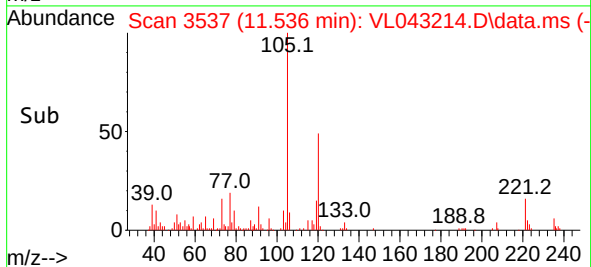
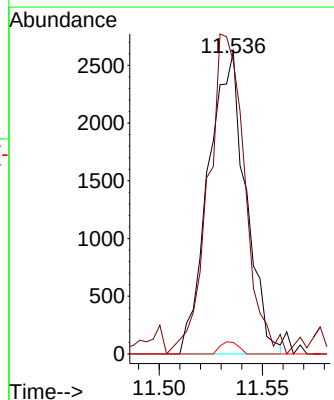
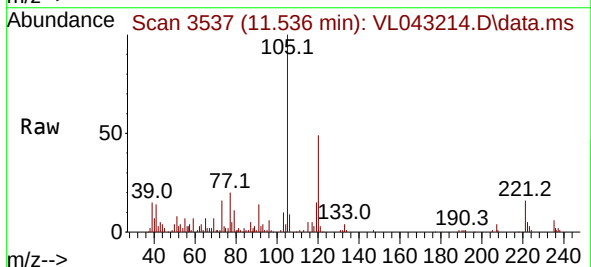
Instrument :
MSVOA_1
ClientSampleId :
IA1

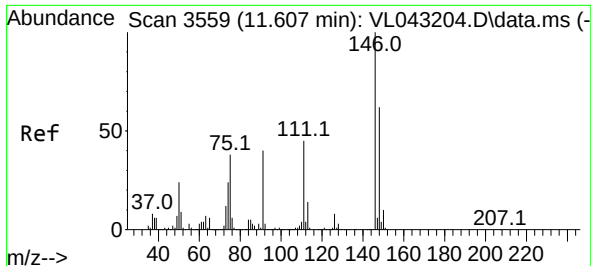
Tgt Ion:120 Resp: 654
Ion Ratio Lower Upper
120 100
91 737.9 377.1 565.7#



#65
tert-Butylbenzene
Concen: 0.063 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.013 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:119 Resp: 3299
Ion Ratio Lower Upper
119 100
91 98.9 65.3 97.9#
134 0.0 17.0 25.4#

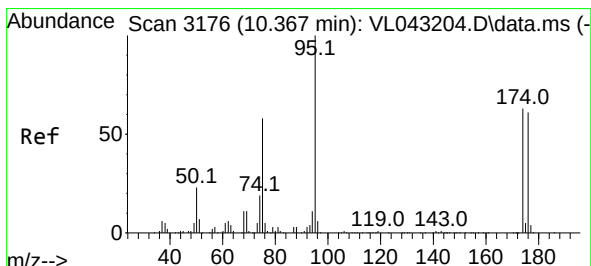
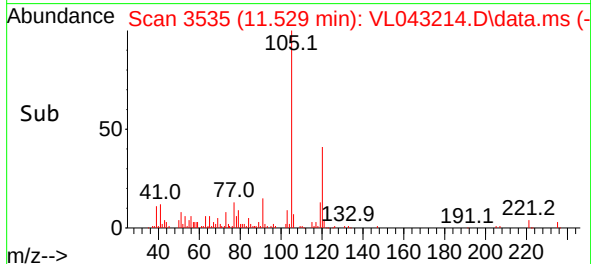
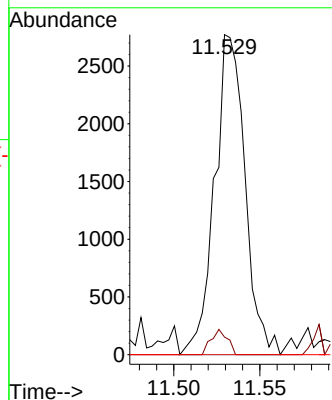
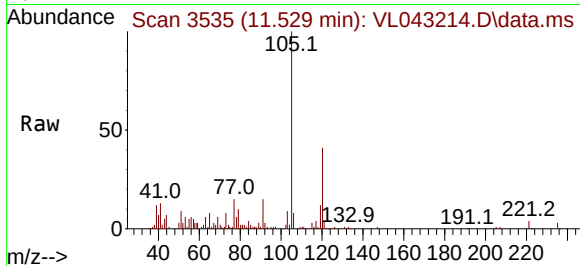




#66
Benzyl Chloride
Concen: 0.640 ppbv
RT: 11.529 min Scan# 31
Delta R.T. -0.078 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

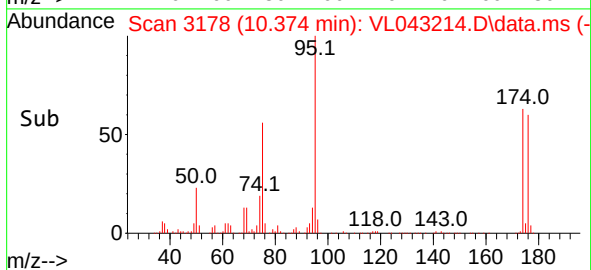
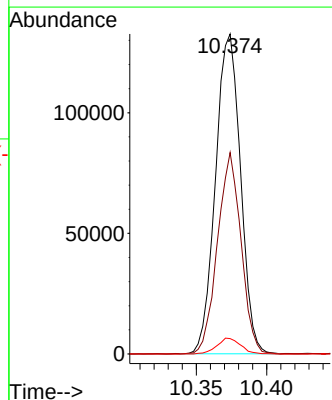
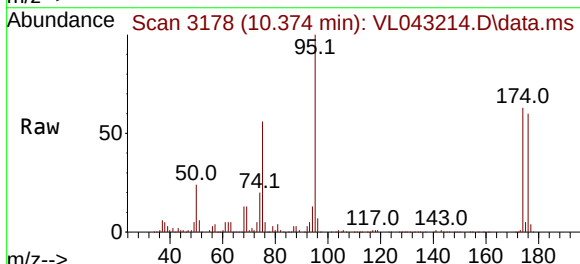
Instrument :
MSVOA_1
ClientSampleId :
IA1

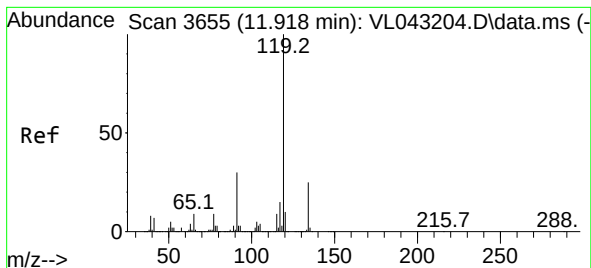
Tgt Ion: 91 Resp: 3398
Ion Ratio Lower Upper
91 100
126 4.3 14.4 21.6#
128 0.0 4.6 6.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.527 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.007 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion: 95 Resp: 163992
Ion Ratio Lower Upper
95 100
174 59.3 50.2 75.2
175 4.7 4.1 6.1





#69

p-Isopropyltoluene

Concen: 0.307 ppbv

RT: 11.924 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL043214.D

Acq: 18 Nov 2025 15:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

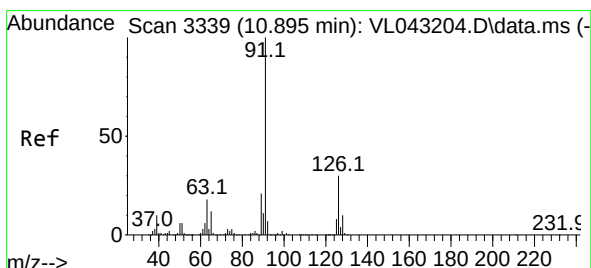
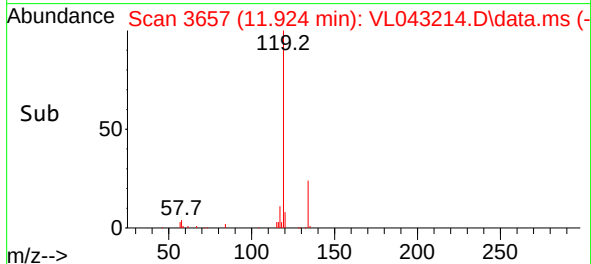
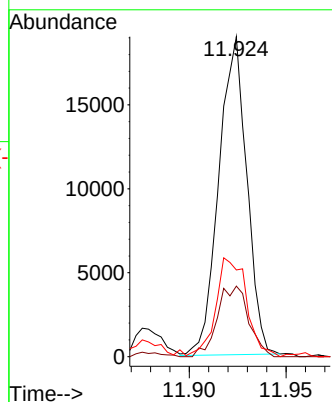
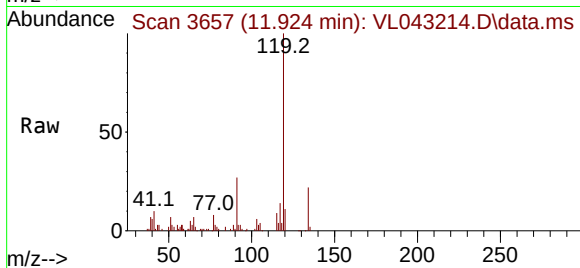
Tgt Ion:119 Resp: 19009

Ion Ratio Lower Upper

119 100

134 26.0 20.2 30.2

91 35.3 23.8 35.8



#71

2-Chlorotoluene

Concen: 2.796 ppbv

RT: 10.853 min Scan# 3326

Delta R.T. -0.042 min

Lab File: VL043214.D

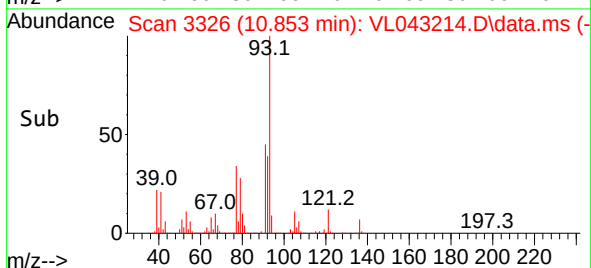
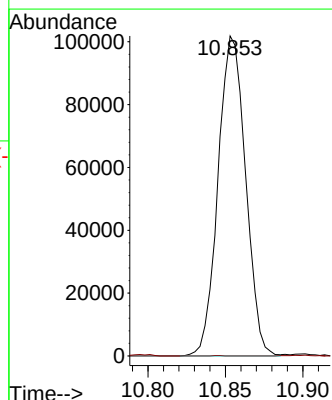
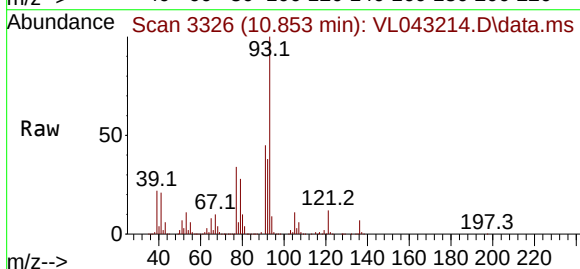
Acq: 18 Nov 2025 15:57

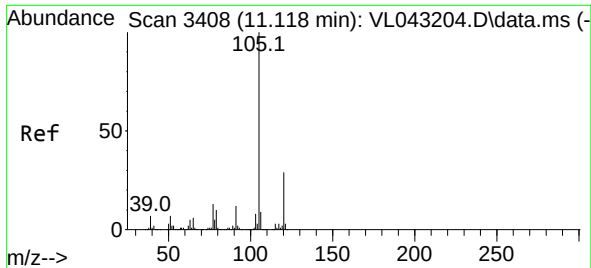
Tgt Ion: 91 Resp: 125985

Ion Ratio Lower Upper

91 100

126 0.2 11.7 46.7#

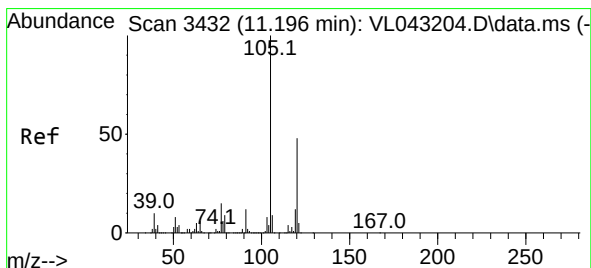
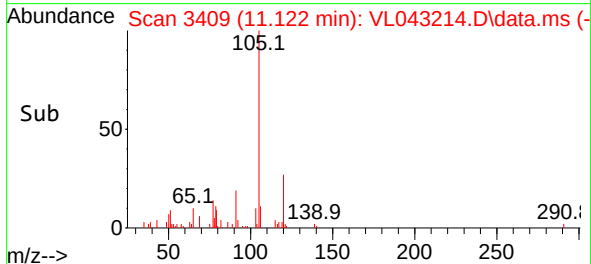
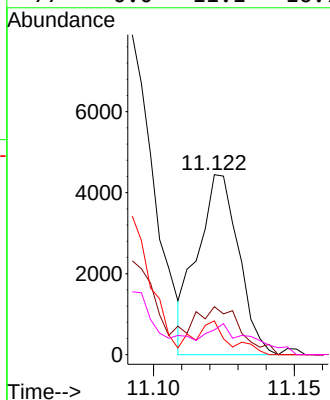
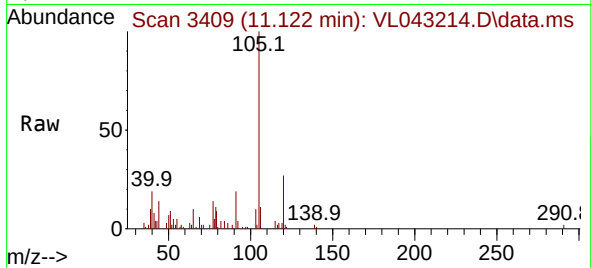




#72
4-Ethyltoluene
Concen: 0.113 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

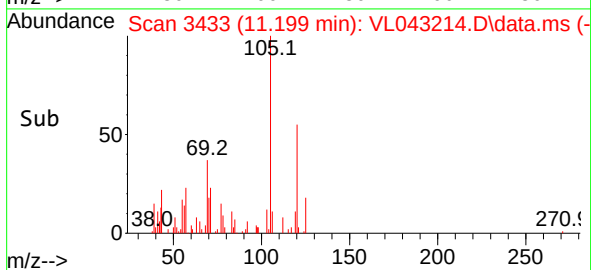
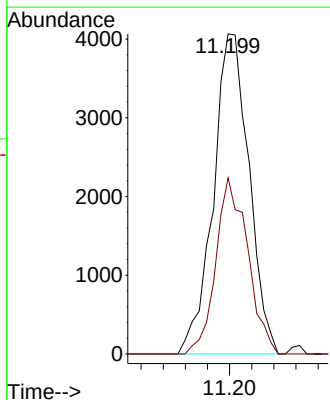
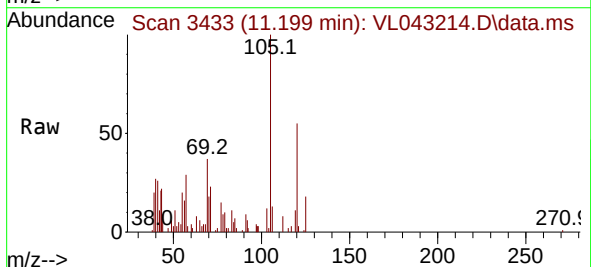
Instrument :
MSVOA_1
ClientSampleId :
1A1

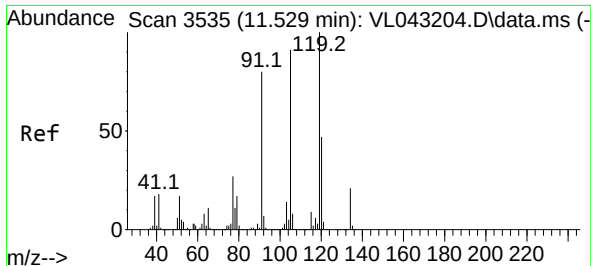
Tgt Ion:	105	Resp:	4522
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.8	35.8#
91	0.0	10.3	15.5#
77	0.0	11.1	16.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.136 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:	105	Resp:	4548
Ion Ratio	Lower	Upper	
105	100		
120	55.0	38.6	57.8

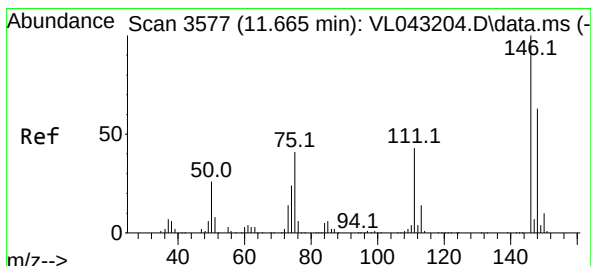
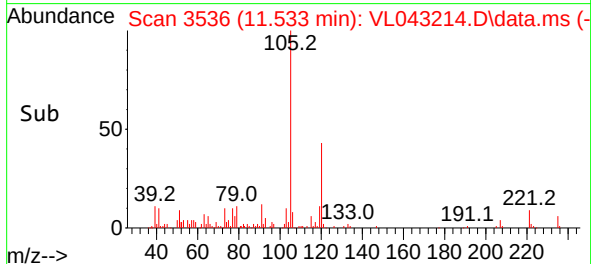
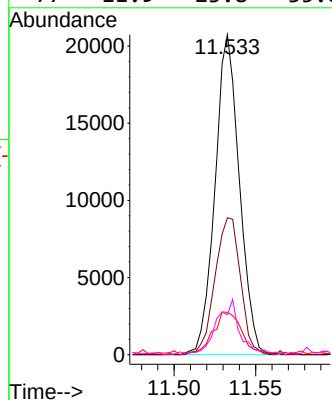
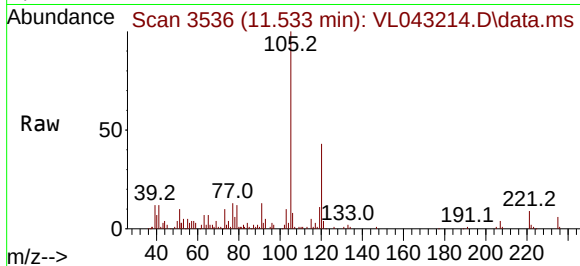




#74
1,2,4-Trimethylbenzene
Concen: 0.590 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

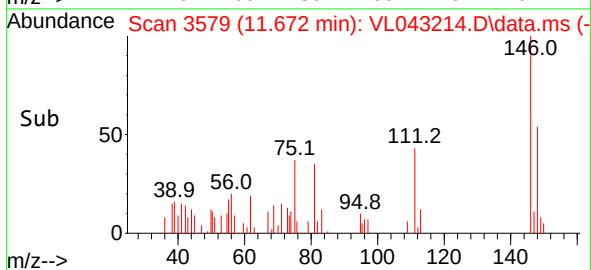
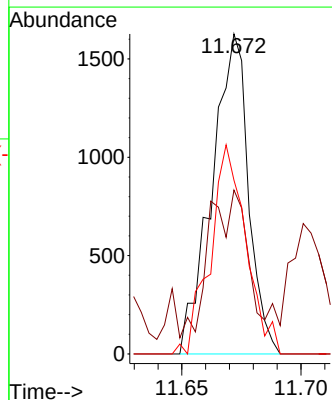
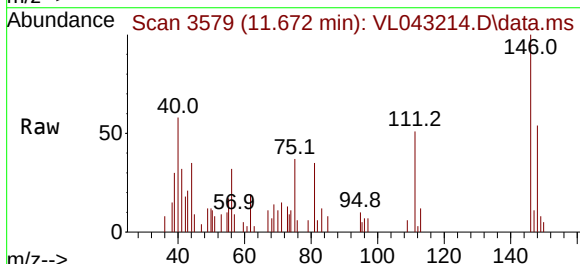
Instrument :
MSVOA_1
ClientSampleId :
IA1

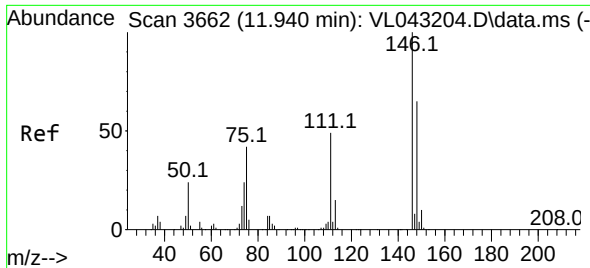
Tgt Ion:105 Resp: 21546
Ion Ratio Lower Upper
105 100
120 42.8 41.7 62.5
91 13.2 70.0 105.0#
77 11.9 23.8 35.8#



#76
1,4-Dichlorobenzene
Concen: 0.082 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.007 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:146 Resp: 1740
Ion Ratio Lower Upper
146 100
111 66.8 22.8 68.3
148 63.9 31.8 95.4

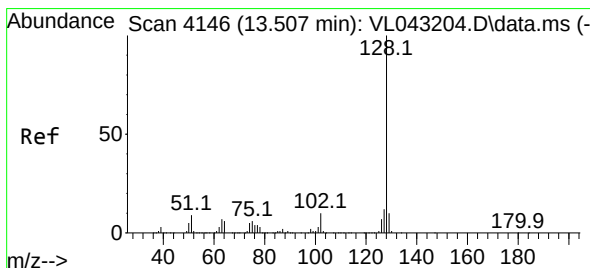
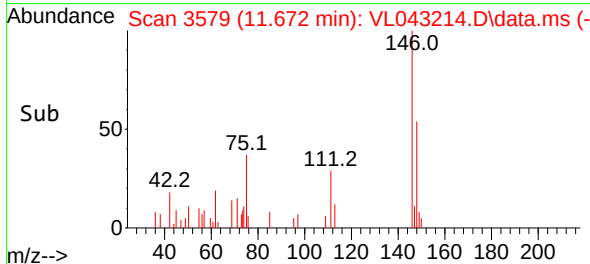
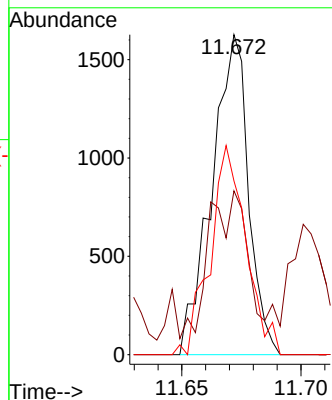
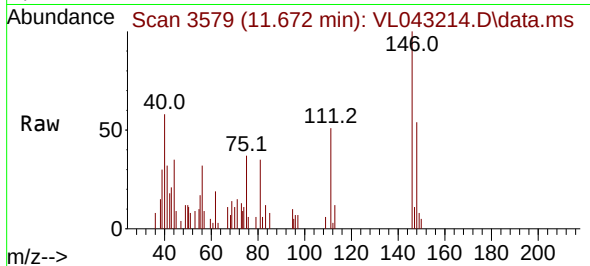




#77
1,2-Dichlorobenzene
Concen: 0.085 ppbv
RT: 11.672 min Scan# 311
Delta R.T. -0.269 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

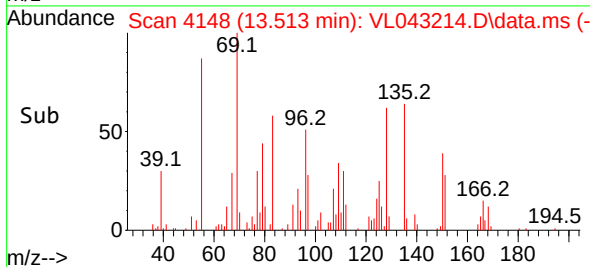
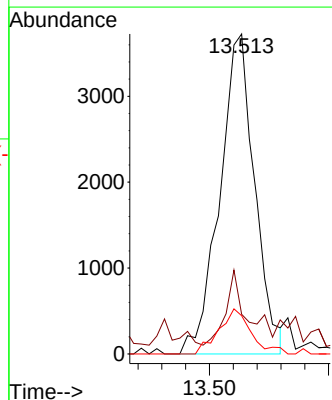
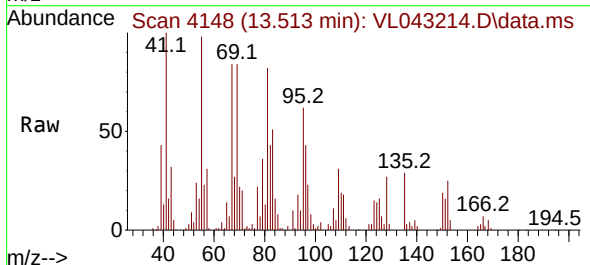
Instrument :
MSVOA_L
ClientSampleId :
IA1

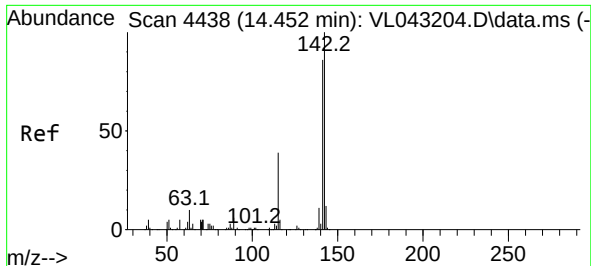
Tgt Ion:146 Resp: 1740
Ion Ratio Lower Upper
146 100
111 43.0 24.3 73.0
148 63.9 31.6 94.7



#79
Naphthalene
Concen: 0.117 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.007 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:128 Resp: 3789
Ion Ratio Lower Upper
128 100
127 7.5 9.9 14.9#
129 12.0 8.4 12.6

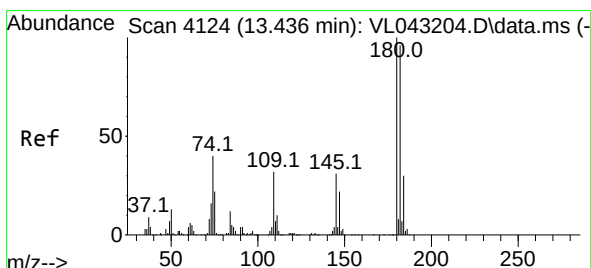
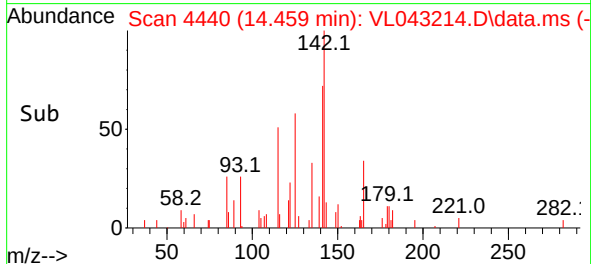
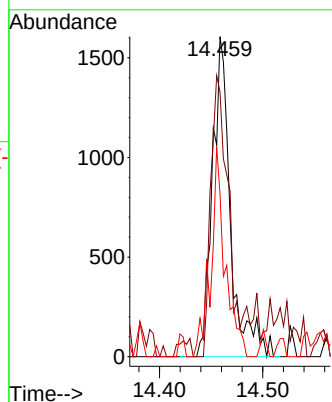
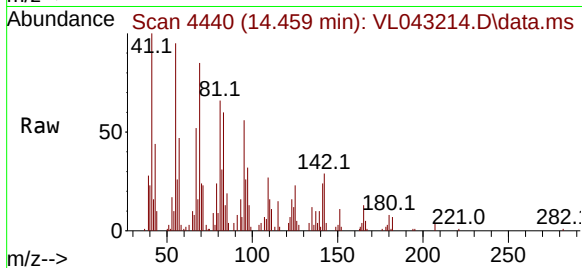




#80
Naphthalene, 2-methyl-
Concen: 0.229 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.007 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Instrument :
MSVOA_1
ClientSampleId :
IA1

Tgt Ion:	142	Resp:	1955
Ion Ratio	Lower	Upper	
142	100		
141	98.0	67.1	100.7
115	56.4	31.9	47.9#



#81
1,2,4-Trichlorobenzene
Concen: 0.088 ppbv
RT: 13.439 min Scan# 4125
Delta R.T. 0.003 min
Lab File: VL043214.D
Acq: 18 Nov 2025 15:57

Tgt Ion:	180	Resp:	1283
Ion Ratio	Lower	Upper	
180	100		
182	92.6	77.4	116.2
184	36.9	24.2	36.4#

