

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043117.D
 Acq On : 15 Oct 2025 10:50
 Operator : SY/MD
 Sample : Q3247-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

Quant Time: Oct 16 01:15:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

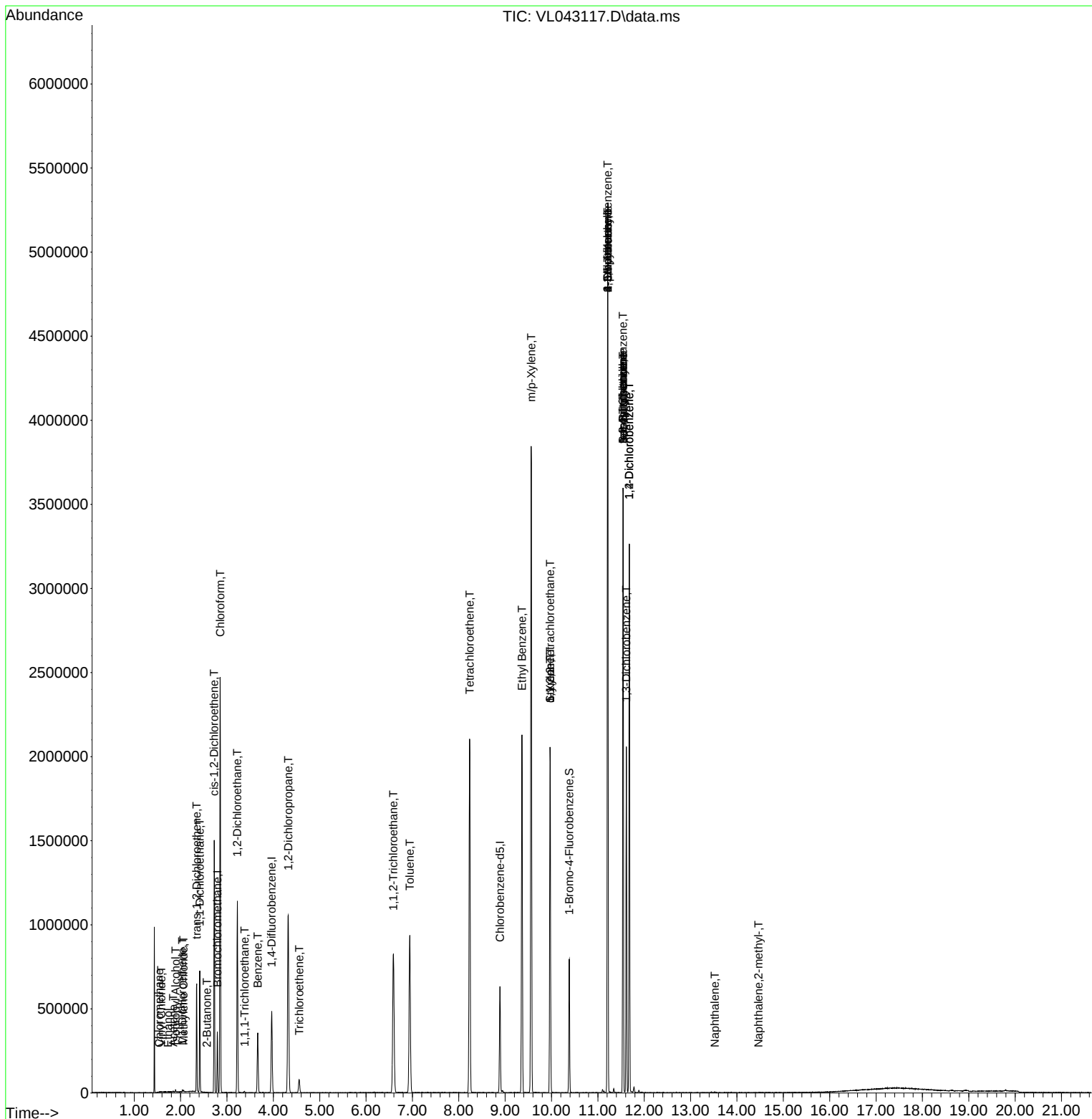
Internal Standards						
1) Bromochloromethane	2.794	49	93140	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301002	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	265788	10.000	ppbv	0.00

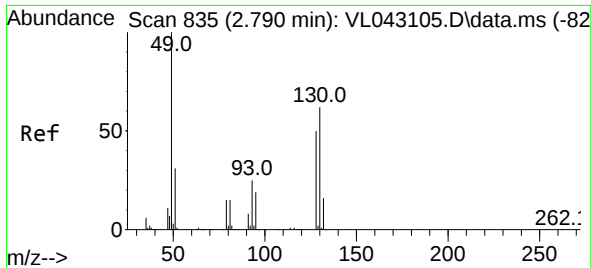
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	214126	10.365	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%

Target Compounds					Qvalue	
4) Chloromethane	1.538	50	175	0.033	ppbv #	43
5) Vinyl Chloride	1.583	62	662	0.129	ppbv	92
13) Ethanol	1.725	45	443	0.188	ppbv #	38
15) Acetone	1.839	43	2219	0.177	ppbv #	82
18) 1,1-Dichloroethene	2.039	96	1397	0.307	ppbv #	83
19) Isopropyl Alcohol	1.891	45	5123	0.655	ppbv #	37
20) Methylene Chloride	2.065	84	1468	0.296	ppbv #	78
22) trans-1,2-Dichloroethene	2.347	96	99446	18.300	ppbv	96
24) 1,1-Dichloroethane	2.415	63	320432	30.520	ppbv	98
29) Chloroform	2.855	83	1039307	50.002	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	478426	34.926	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	1470	0.068	ppbv #	25
34) 2-Butanone	2.567	43	740	0.037	ppbv #	53
36) Benzene	3.664	78	224626	7.923	ppbv	99
37) 1,2-Dichloroethane	3.224	62	652213	39.936	ppbv	97
38) Trichloroethene	4.561	130	9584	0.809	ppbv	95
39) 1,2-Dichloropropane	4.321	63	321440	31.014	ppbv	92
47) 1,1,2-Trichloroethane	6.587	97	293124	26.190	ppbv	96
52) Tetrachloroethene	8.234	164	371165	36.306	ppbv	92
53) Toluene	6.943	91	716914	21.307	ppbv	100
58) Ethyl Benzene	9.364	91	1287080	28.216	ppbv	97
59) m/p-Xylene	9.561	91	1843103	50.659	ppbv	99
60) o-Xylene	9.969	91	467143	13.000	ppbv	99
61) Styrene	9.969	104	10210	0.629	ppbv #	1
63) 1,1,2,2-Tetrachloroethane	9.969	83	400302	16.637	ppbv	99
64) n-propylbenzene	11.212	120	989923	57.586	ppbv #	1
65) tert-Butylbenzene	11.542	119	158685	2.767	ppbv #	61
66) Benzyl Chloride	11.542	91	177042	27.742	ppbv #	65
67) sec-Butylbenzene	11.542	105	1418707	17.434	ppbv #	57
69) p-Isopropyltoluene	11.542	119	158645	2.294	ppbv #	1
71) 2-Chlorotoluene	11.212	91	271880	5.490	ppbv #	45
72) 4-Ethyltoluene	11.212	105	2075108	46.965	ppbv #	81
73) 1,3,5-Trimethylbenzene	11.212	105	2075108	56.947	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	1418707	34.791	ppbv #	51
75) 1,3-Dichlorobenzene	11.613	146	484752	20.496	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	771622	32.356	ppbv	98
77) 1,2-Dichlorobenzene	11.678	146	771622	33.725	ppbv	99
79) Naphthalene	13.520	128	2254	0.053	ppbv #	96
80) Naphthalene,2-methyl-	14.468	142	967	0.087	ppbv #	78

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

Quant Time: Oct 16 01:15:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

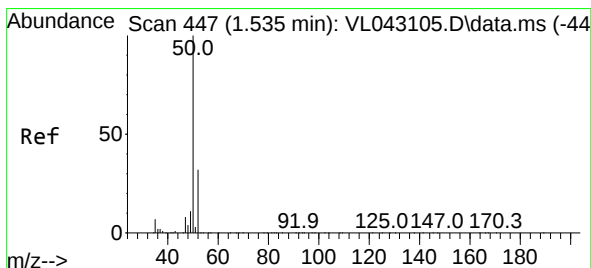
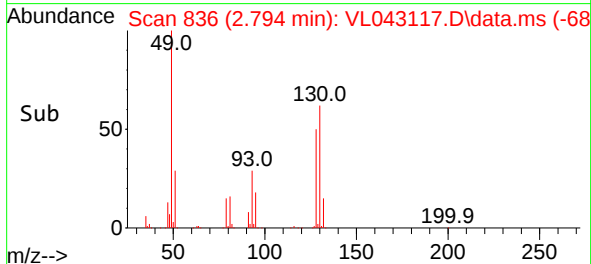
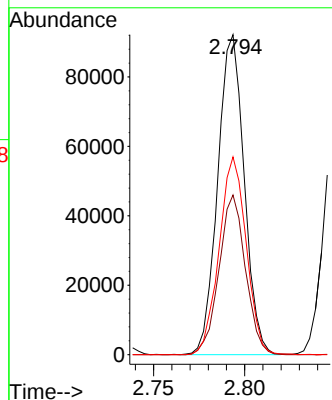
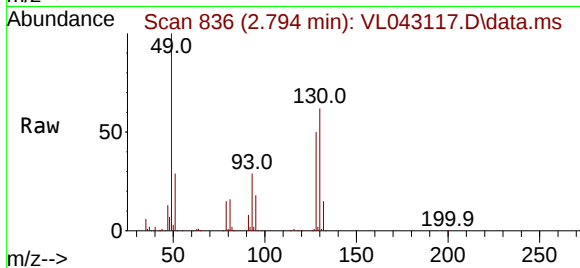




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

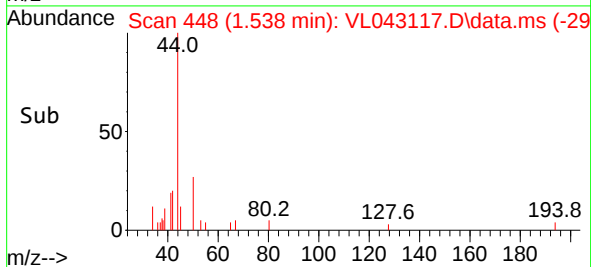
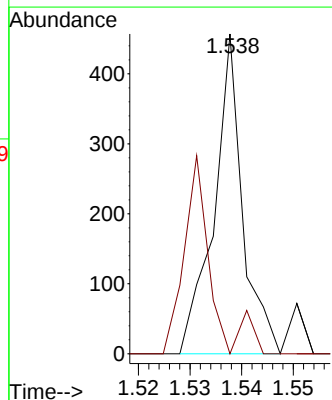
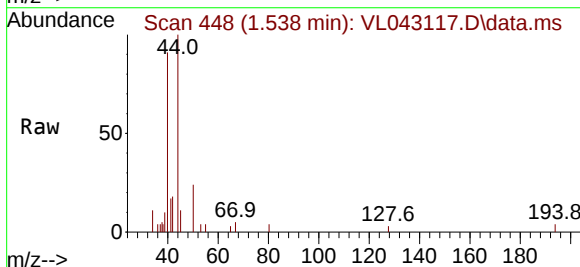
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

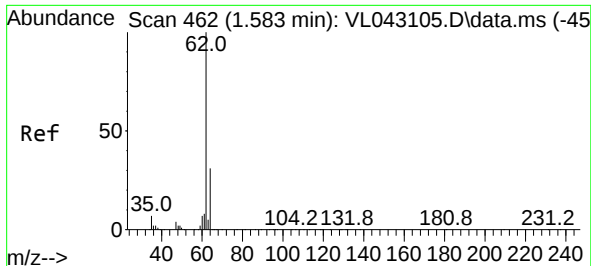
Tgt Ion: 49 Resp: 93140
Ion Ratio Lower Upper
49 100
128 49.7 24.4 73.4
130 63.3 31.0 93.0



#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 50 Resp: 175
Ion Ratio Lower Upper
50 100
52 0.0 25.2 37.8#

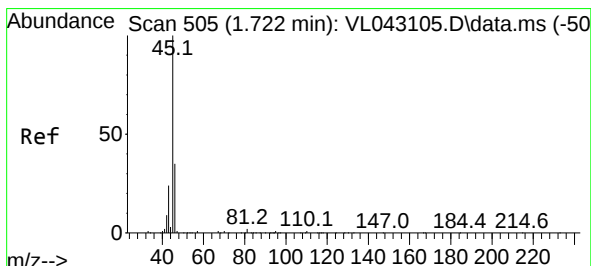
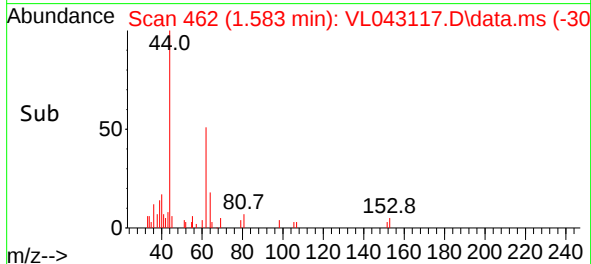
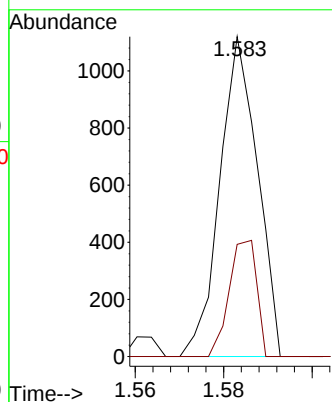
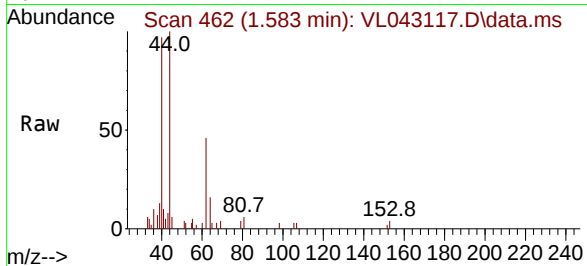




#5
 Vinyl Chloride
 Concen: 0.129 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

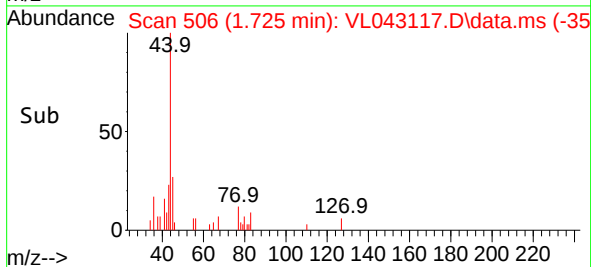
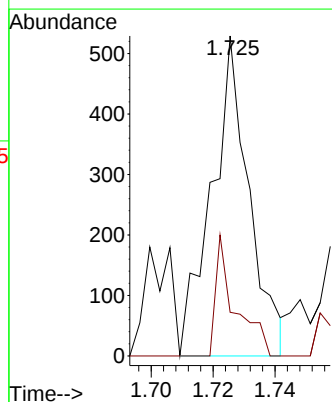
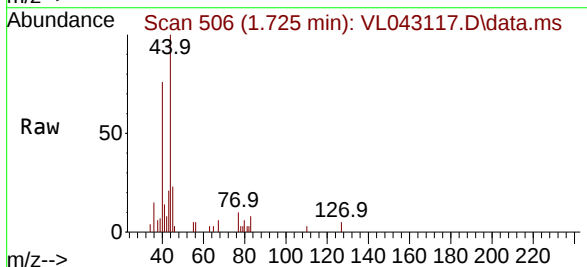
Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

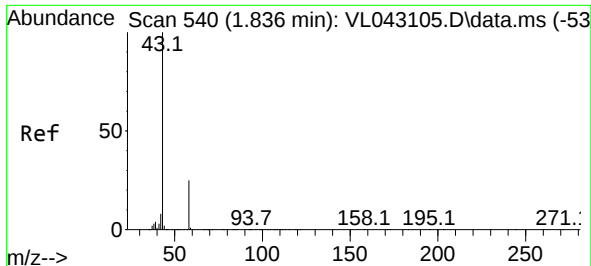
Tgt Ion: 62 Resp: 662
 Ion Ratio Lower Upper
 62 100
 64 35.1 24.6 36.8



#13
 Ethanol
 Concen: 0.188 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

Tgt Ion: 45 Resp: 443
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.7 58.9#

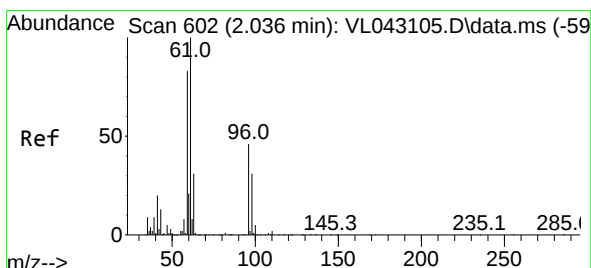
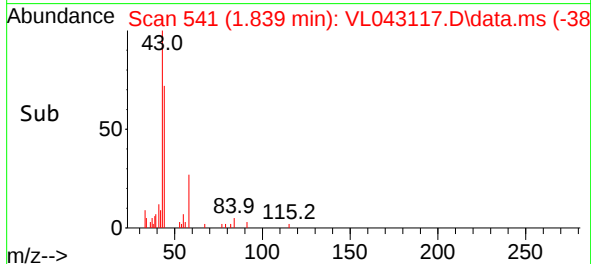
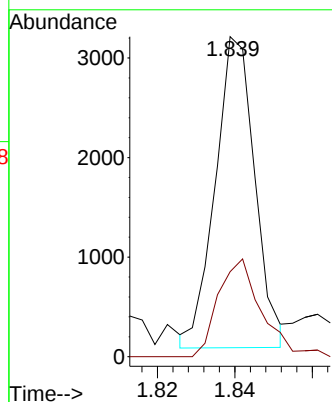
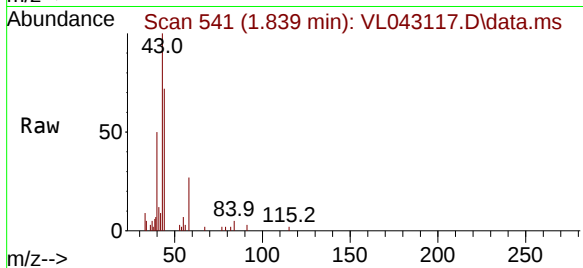




#15
Acetone
Concen: 0.177 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

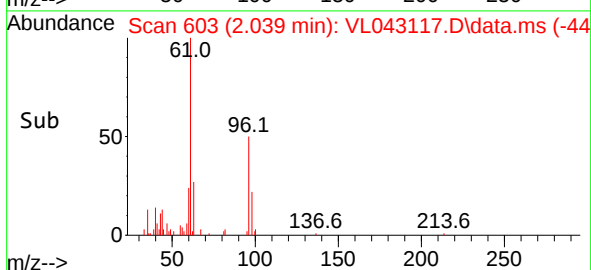
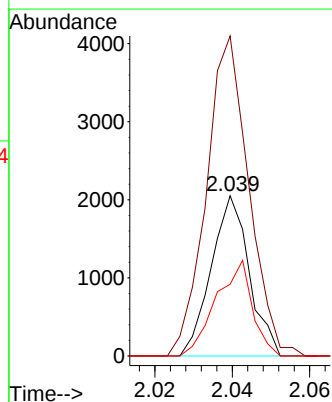
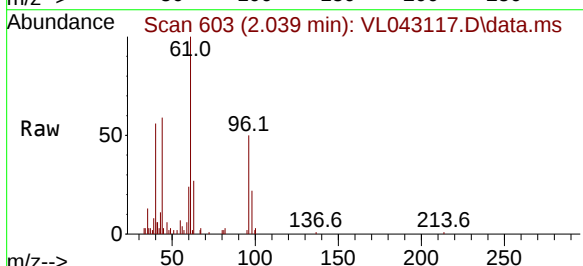
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

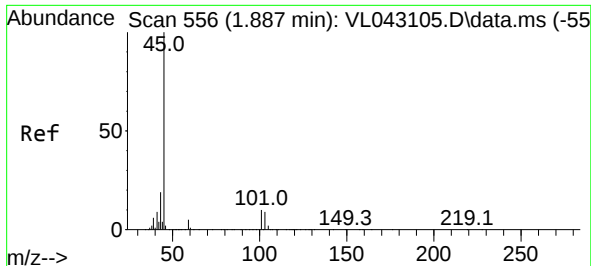
Tgt Ion: 43 Resp: 2219
Ion Ratio Lower Upper
43 100
58 35.1 20.8 31.2#



#18
1,1-Dichloroethene
Concen: 0.307 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 96 Resp: 1397
Ion Ratio Lower Upper
96 100
61 194.5 173.4 260.0
98 44.8 53.2 79.8#

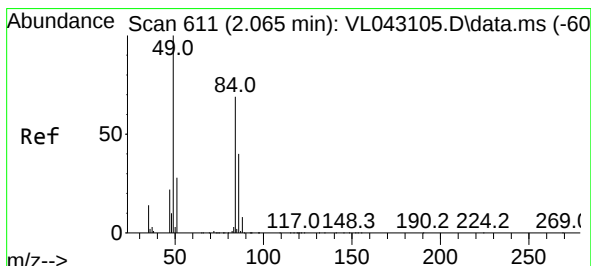
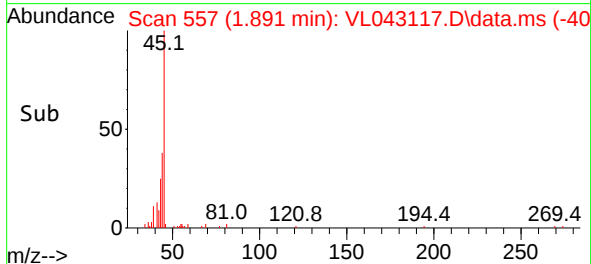
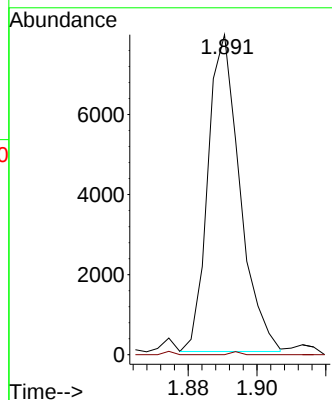
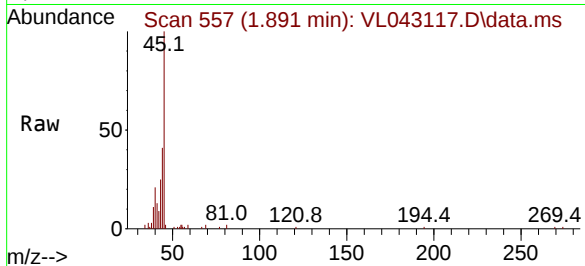




#19
Isopropyl Alcohol
Concen: 0.655 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

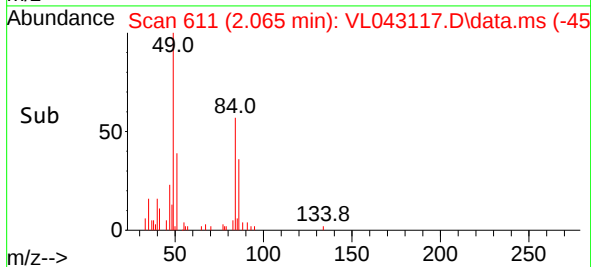
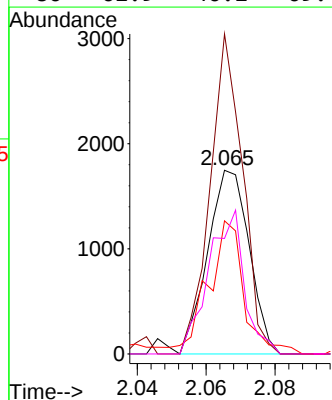
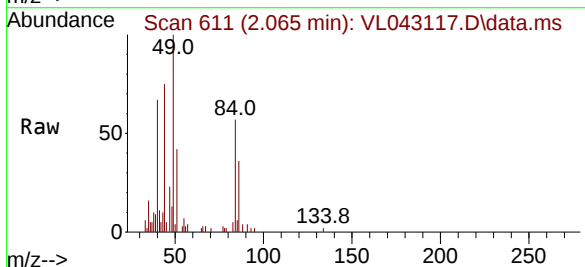
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

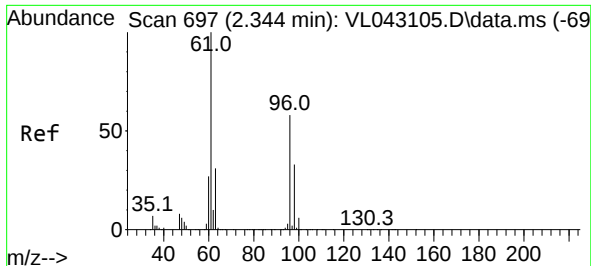
Tgt Ion: 45 Resp: 5123
Ion Ratio Lower Upper
45 100
58 0.6 31.3 46.9#



#20
Methylene Chloride
Concen: 0.296 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 84 Resp: 1468
Ion Ratio Lower Upper
84 100
49 174.1 116.6 175.0
51 67.8 34.8 52.2#
86 62.9 46.2 69.4

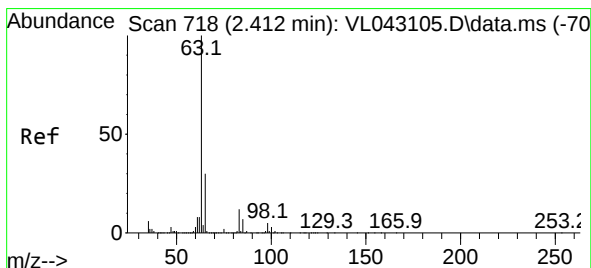
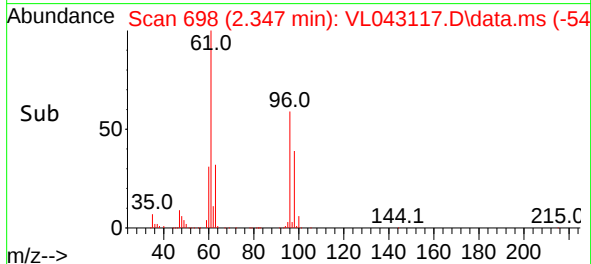
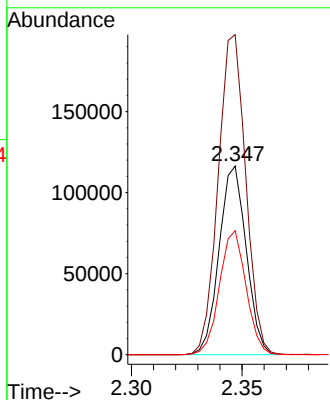
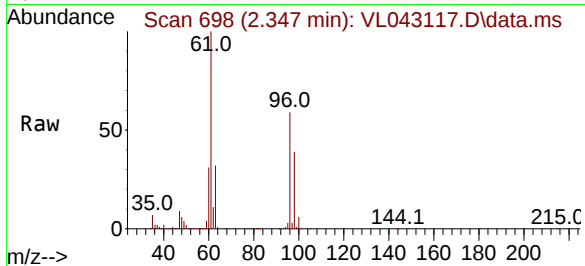




#22
trans-1,2-Dichloroethene
Concen: 18.300 ppbv
RT: 2.347 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

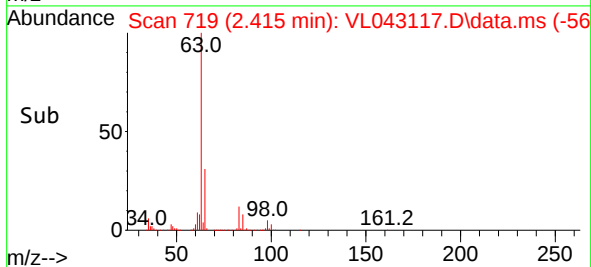
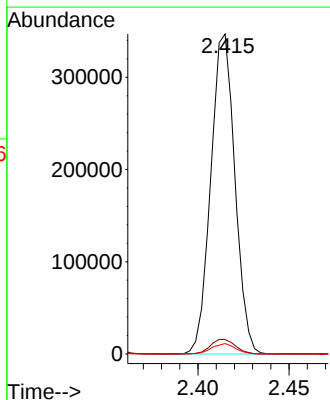
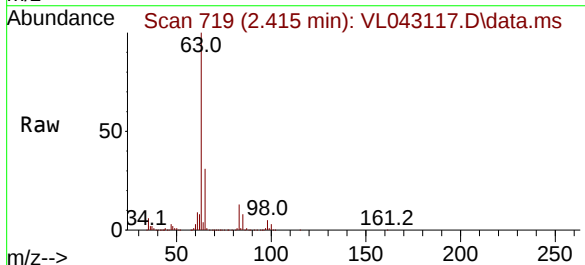
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

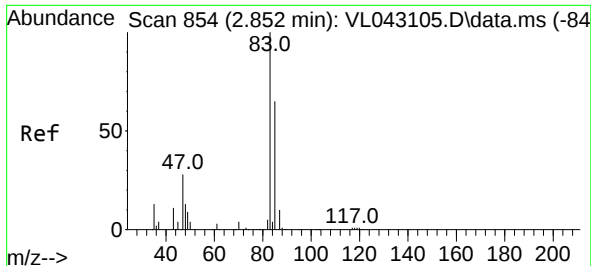
Tgt Ion: 96 Resp: 99446
Ion Ratio Lower Upper
96 100
61 169.6 137.0 205.6
98 65.7 45.5 68.3



#24
1,1-Dichloroethane
Concen: 30.520 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 63 Resp: 320432
Ion Ratio Lower Upper
63 100
98 4.5 2.6 7.8
100 3.2 1.5 4.4





#29

Chloroform

Concen: 50.002 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

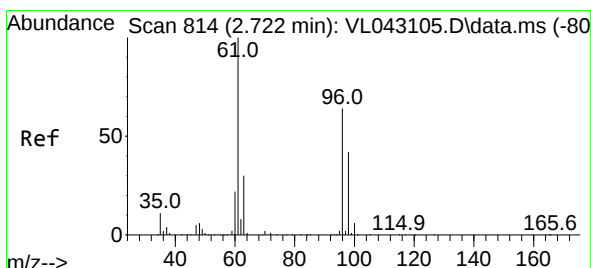
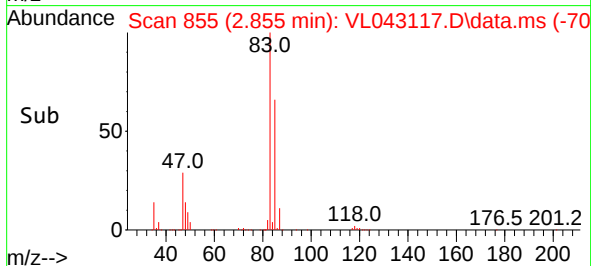
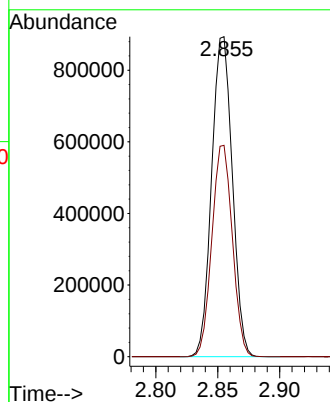
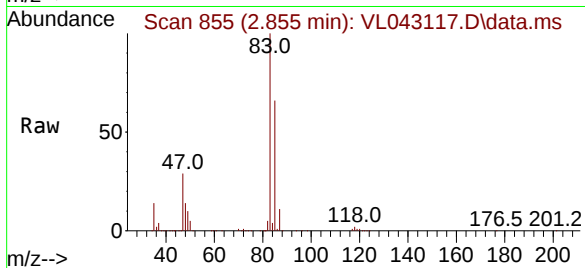
RR-VOAS-AIR

Tgt Ion: 83 Resp: 1039307

Ion Ratio Lower Upper

83 100

85 66.1 51.8 77.6



#31

cis-1,2-Dichloroethene

Concen: 34.926 ppbv

RT: 2.726 min Scan# 815

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

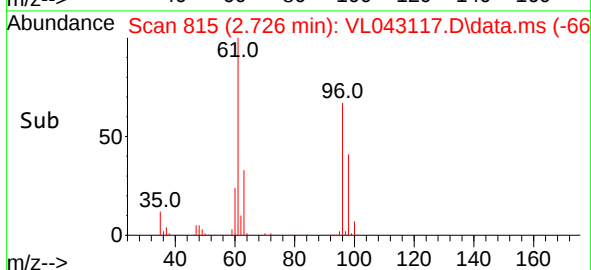
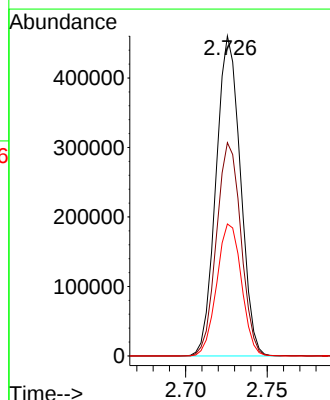
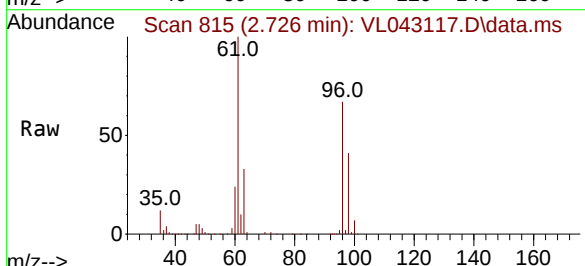
Tgt Ion: 61 Resp: 478426

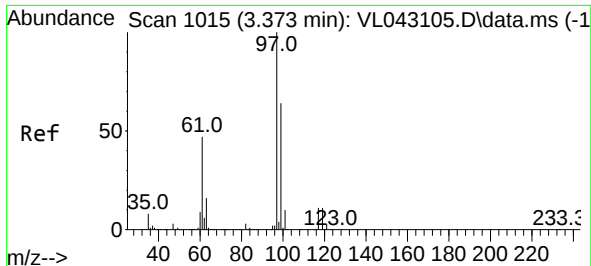
Ion Ratio Lower Upper

61 100

96 66.7 51.0 76.6

98 41.2 33.5 50.3

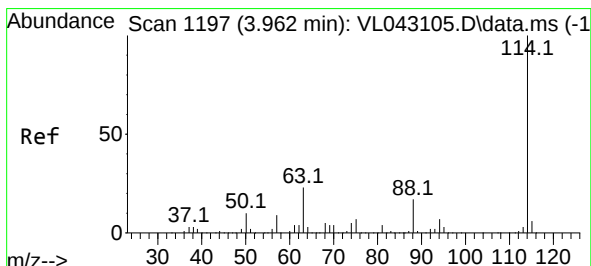
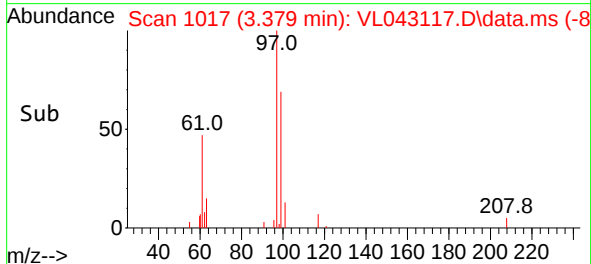
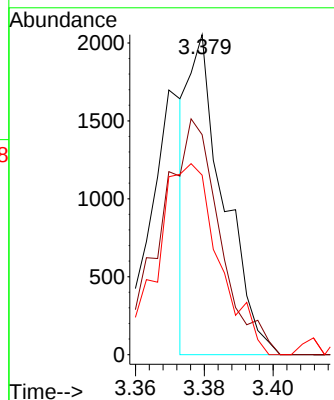
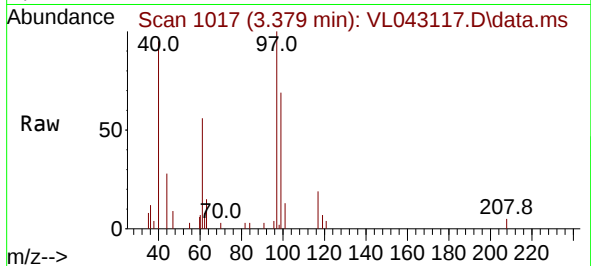




#32
 1,1,1-Trichloroethane
 Concen: 0.068 ppbv
 RT: 3.379 min Scan# 1015
 Delta R.T. 0.006 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

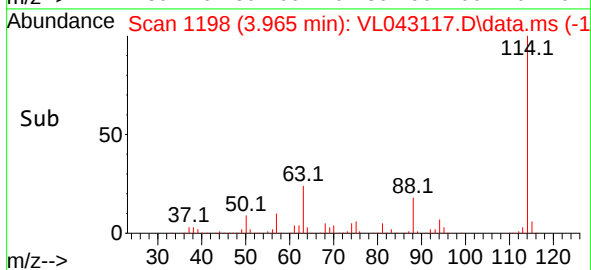
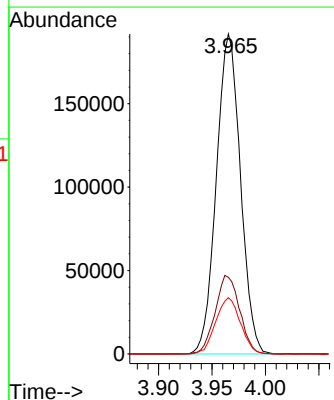
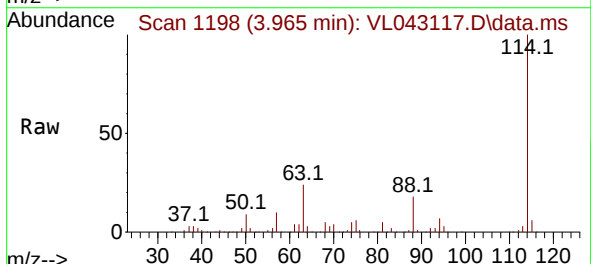
Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR

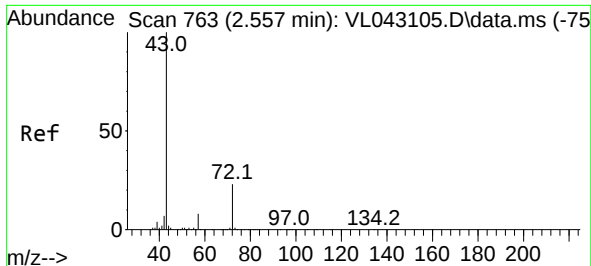
Tgt Ion: 97 Resp: 1470
 Ion Ratio Lower Upper
 97 100
 99 124.9 51.3 76.9#
 61 0.0 38.4 57.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.003 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

Tgt Ion: 114 Resp: 301002
 Ion Ratio Lower Upper
 114 100
 63 24.9 19.3 28.9
 88 18.0 13.9 20.9

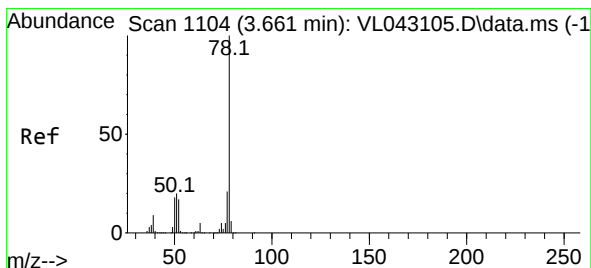
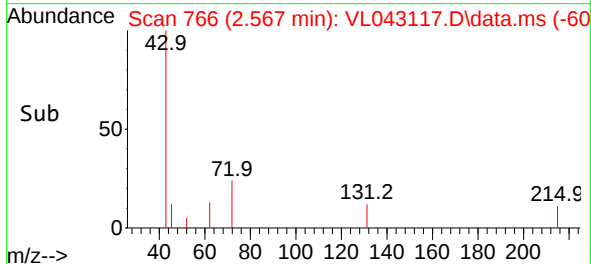
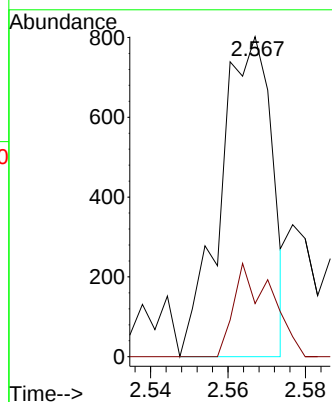
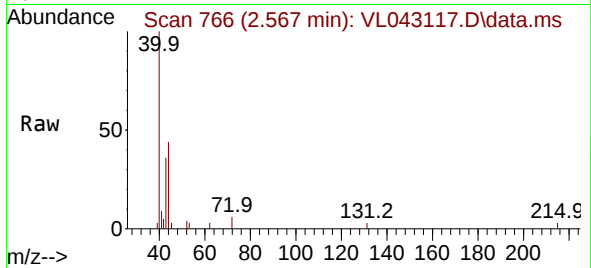




#34
2-Butanone
Concen: 0.037 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

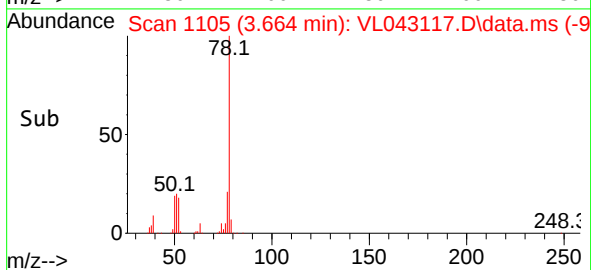
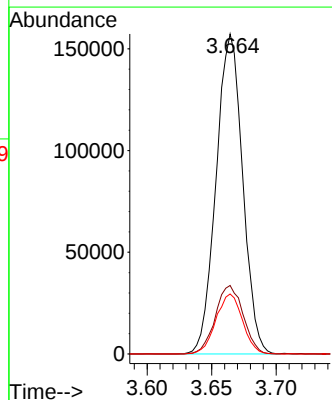
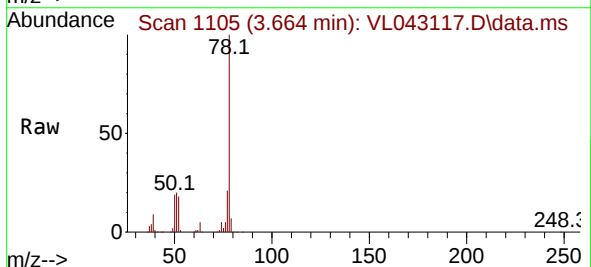
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

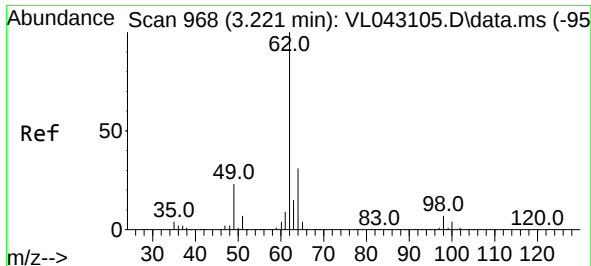
Tgt Ion: 43 Resp: 740
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#



#36
Benzene
Concen: 7.923 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 78 Resp: 224626
Ion Ratio Lower Upper
78 100
77 21.3 17.0 25.6
50 18.7 14.6 22.0





#37

1,2-Dichloroethane

Concen: 39.936 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

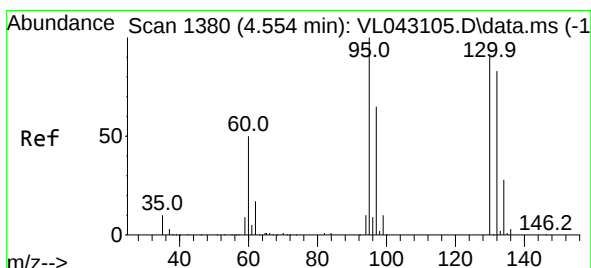
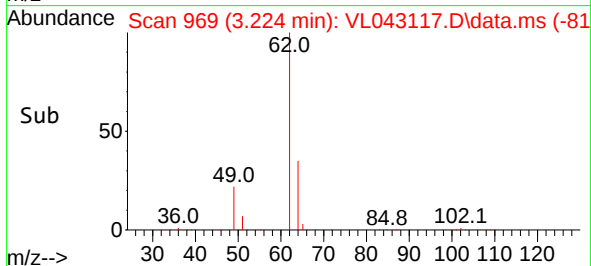
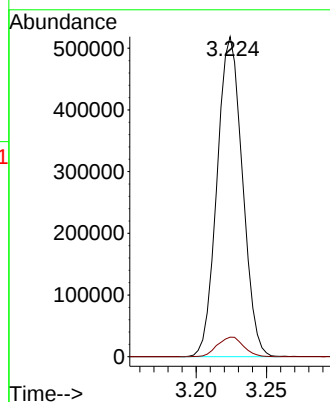
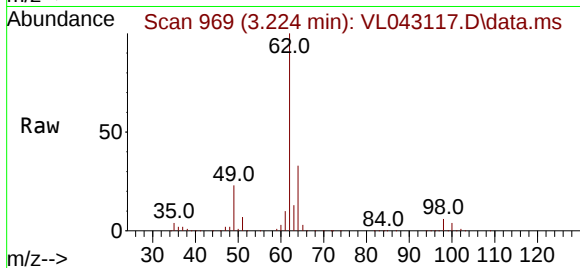
RR-VOAS-AIR

Tgt Ion: 62 Resp: 652213

Ion Ratio Lower Upper

62 100

98 6.3 5.8 8.6



#38

Trichloroethene

Concen: 0.809 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.006 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Tgt Ion:130 Resp: 9584

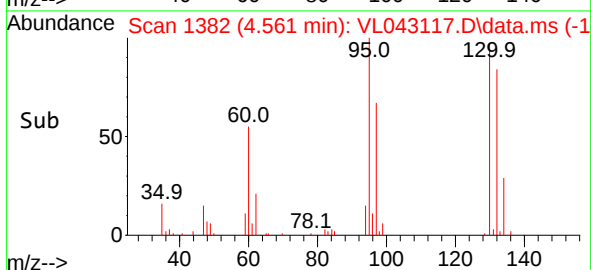
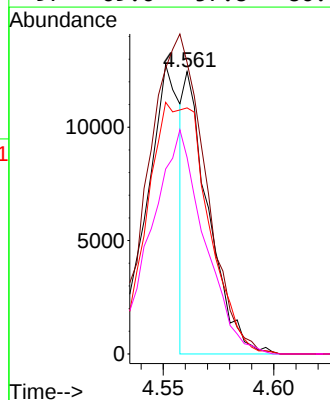
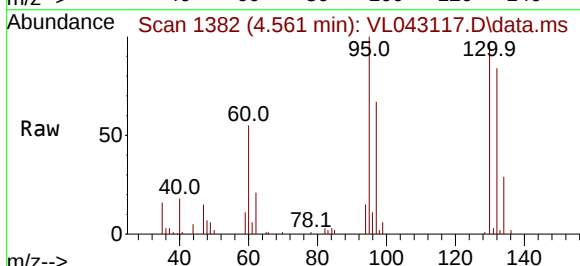
Ion Ratio Lower Upper

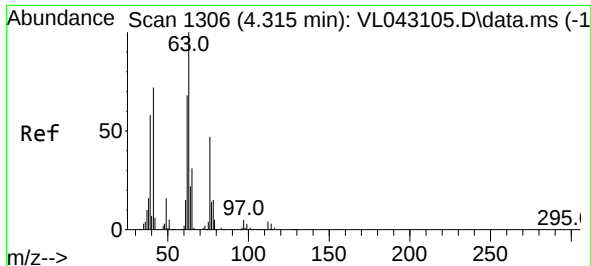
130 100

95 103.2 88.6 133.0

132 87.1 73.4 110.0

97 69.6 57.8 86.6





#39

1,2-Dichloropropane

Concen: 31.014 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

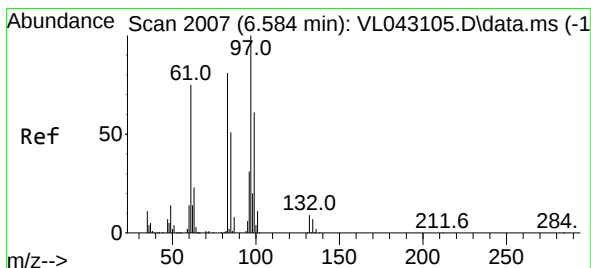
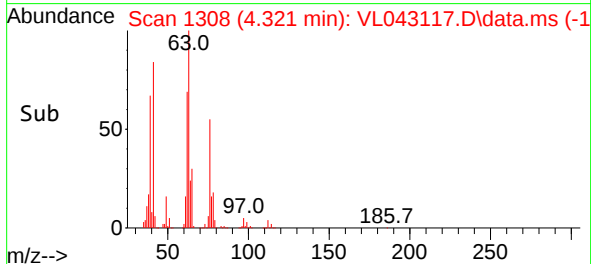
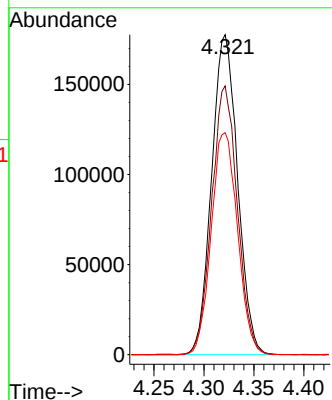
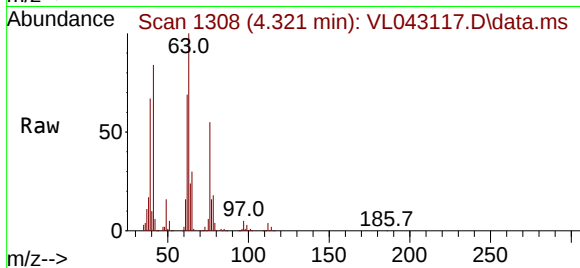
Tgt Ion: 63 Resp: 321440

Ion Ratio Lower Upper

63 100

41 84.0 58.0 87.0

62 69.3 54.7 82.1



#47

1,1,2-Trichloroethane

Concen: 26.190 ppbv

RT: 6.587 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Tgt Ion: 97 Resp: 293124

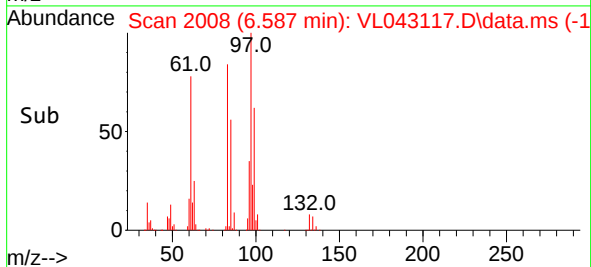
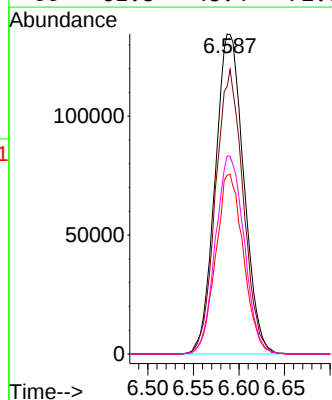
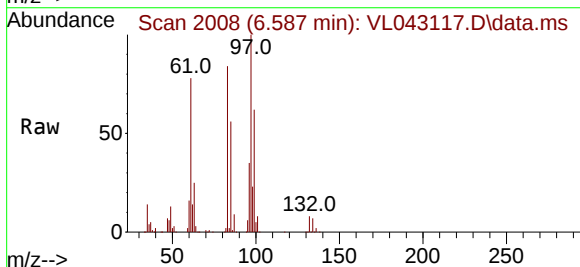
Ion Ratio Lower Upper

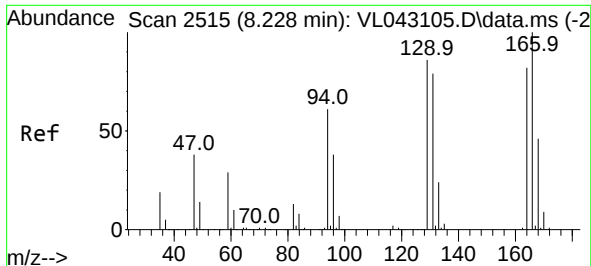
97 100

83 83.5 64.6 96.8

85 55.9 40.6 60.8

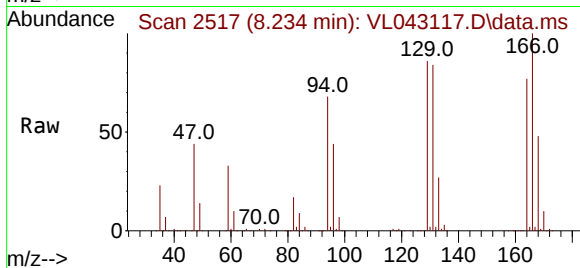
99 61.8 48.4 72.6



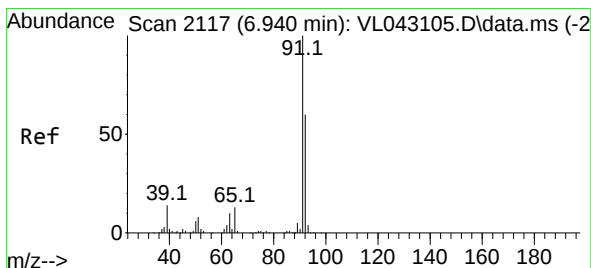
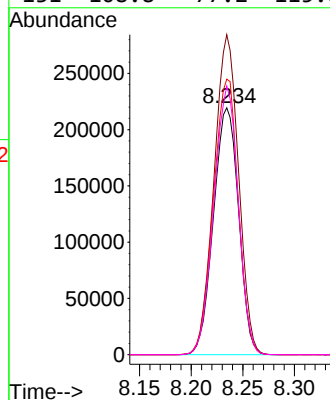
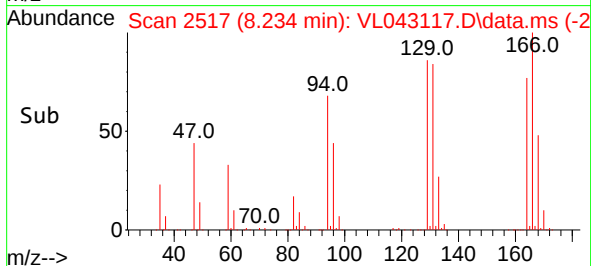


#52
Tetrachloroethene
Concen: 36.306 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

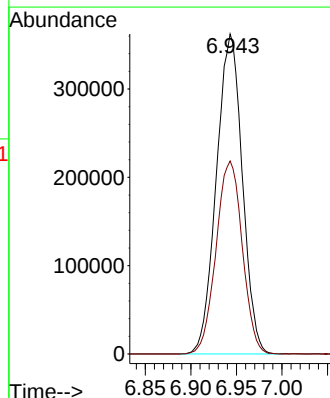
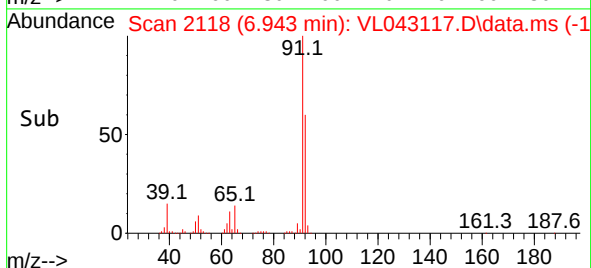
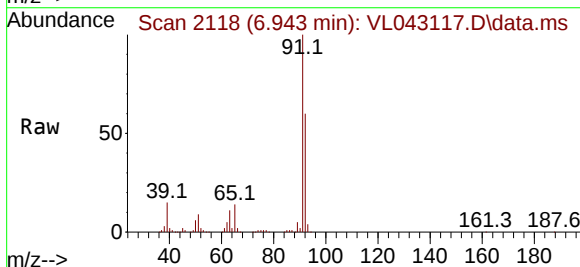


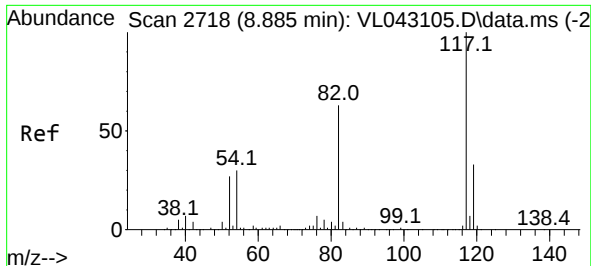
Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.6	97.6	146.4
129	111.6	84.5	126.7
131	108.8	77.2	115.8



#53
Toluene
Concen: 21.307 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.8	73.2

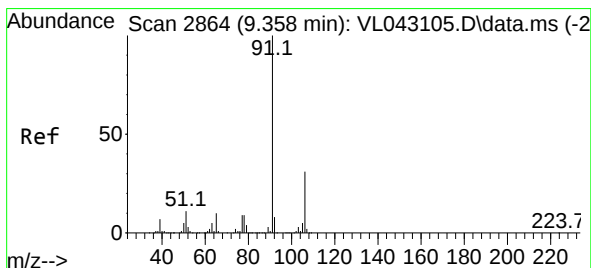
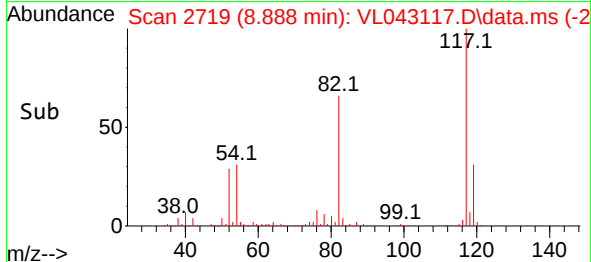
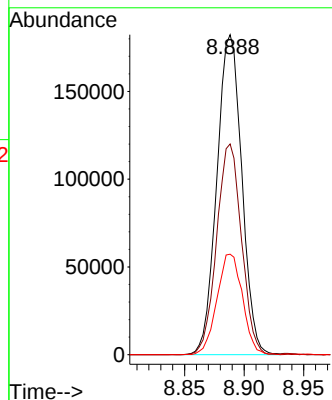
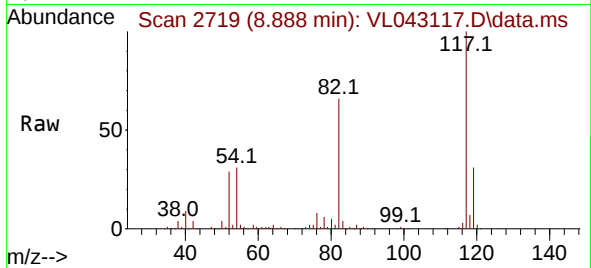




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

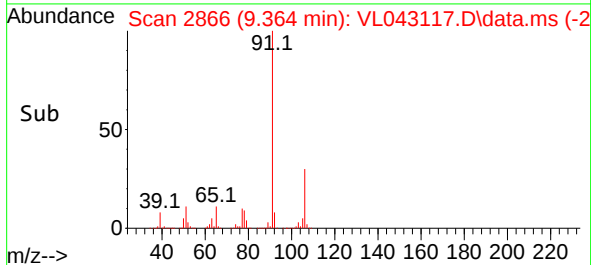
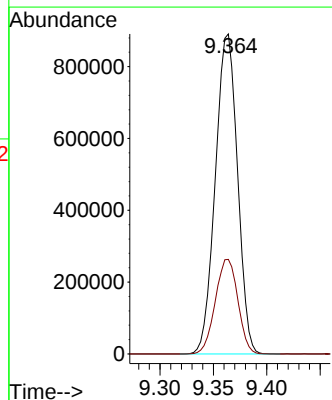
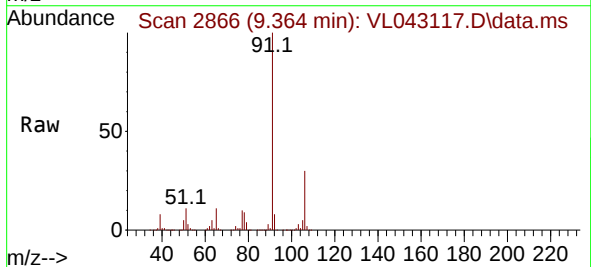
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

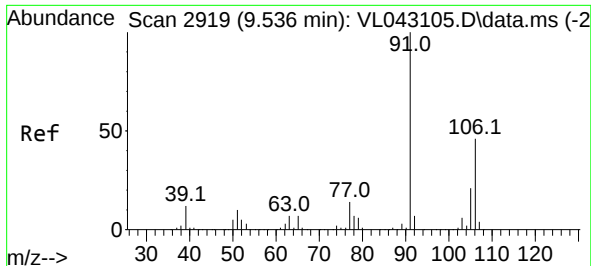
Tgt Ion:117 Resp: 265788
Ion Ratio Lower Upper
117 100
82 65.5 53.8 80.8
119 32.2 25.4 38.0



#58
Ethyl Benzene
Concen: 28.216 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 91 Resp: 1287080
Ion Ratio Lower Upper
91 100
106 29.6 24.8 37.2





#59

m/p-Xylene

Concen: 50.659 ppbv

RT: 9.561 min Scan# 2919

Delta R.T. 0.026 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

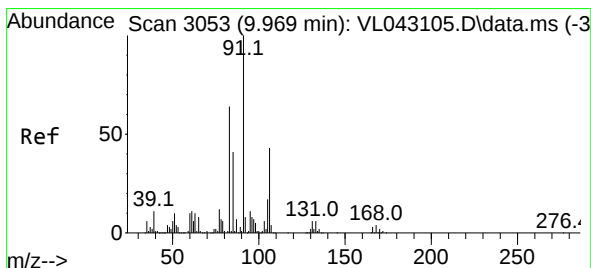
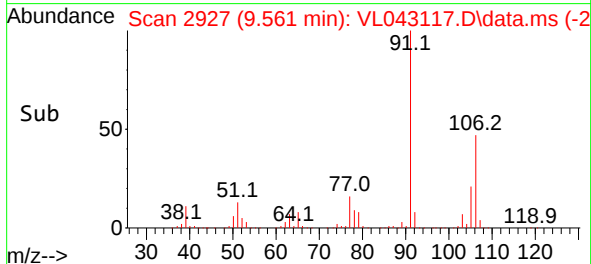
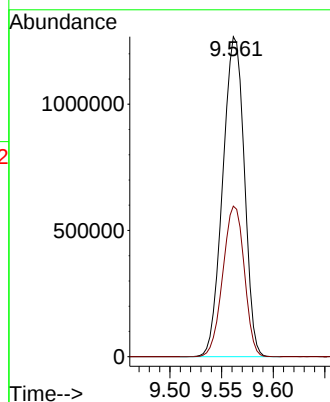
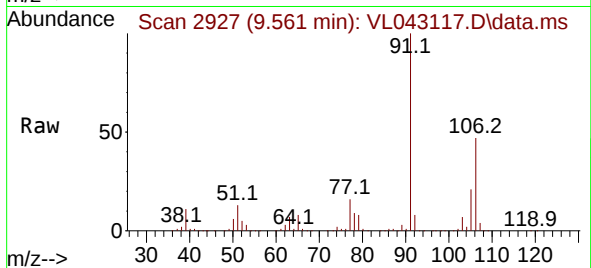
RR-VOAS-AIR

Tgt Ion: 91 Resp: 1843103

Ion Ratio Lower Upper

91 100

106 46.8 38.0 57.0



#60

o-Xylene

Concen: 13.000 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043117.D

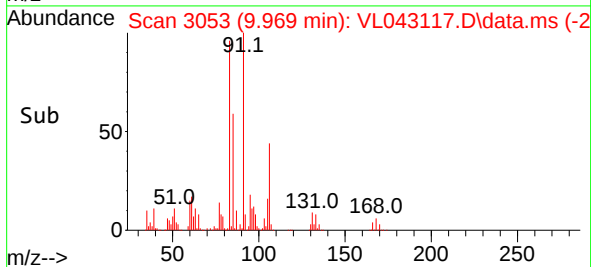
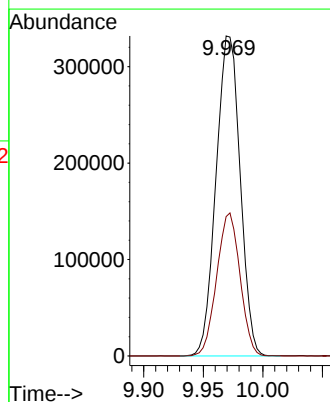
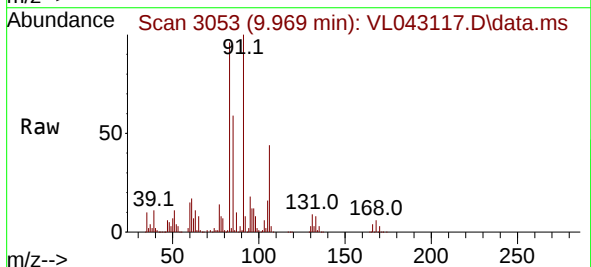
Acq: 15 Oct 2025 10:50

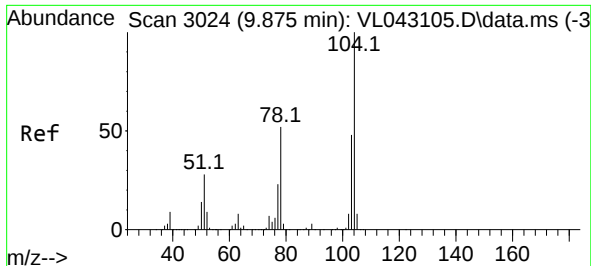
Tgt Ion: 91 Resp: 467143

Ion Ratio Lower Upper

91 100

106 43.2 21.9 65.8

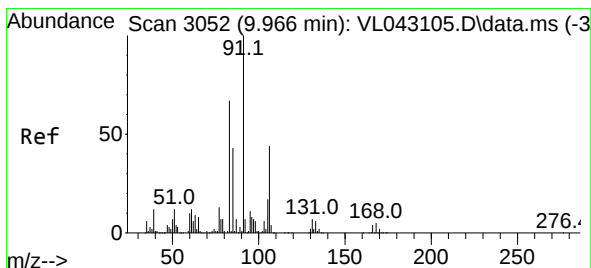
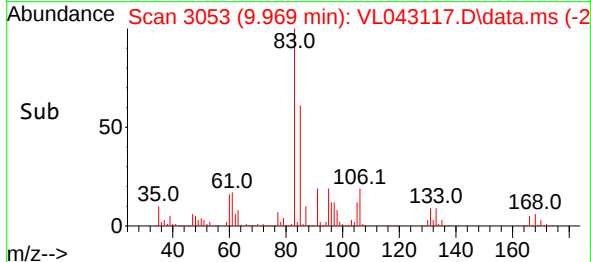
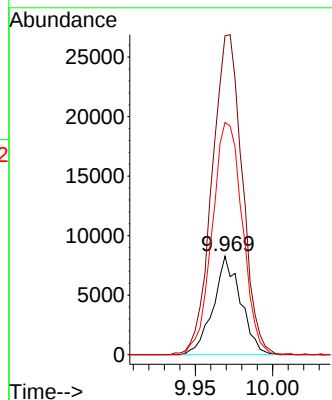
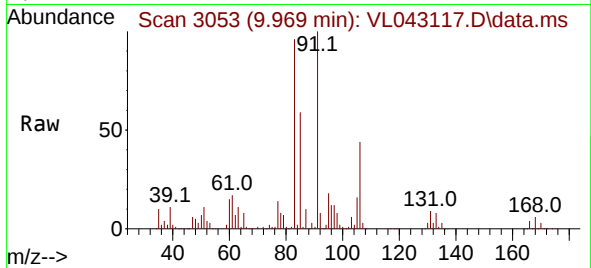




#61
Styrene
Concen: 0.629 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.094 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

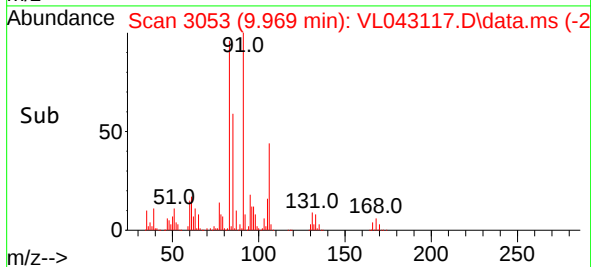
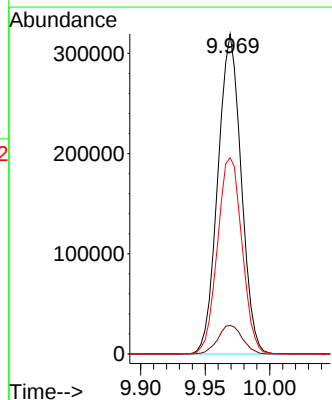
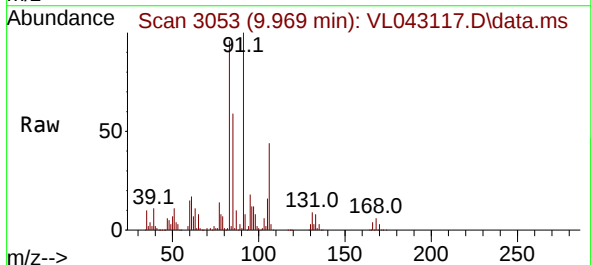
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

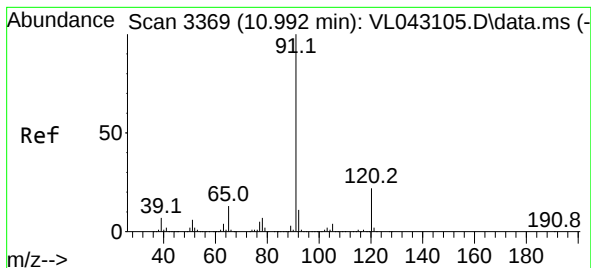
Tgt Ion:104 Resp: 10210
Ion Ratio Lower Upper
104 100
78 356.9 40.2 60.2#
103 259.7 36.9 55.3#



#63
1,1,2,2-Tetrachloroethane
Concen: 16.637 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 83 Resp: 400302
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.3
85 64.6 32.0 96.0





#64

n-propylbenzene

Concen: 57.586 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.220 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

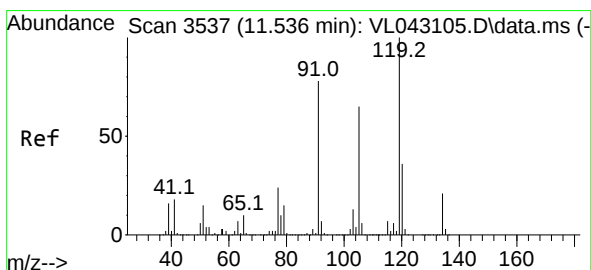
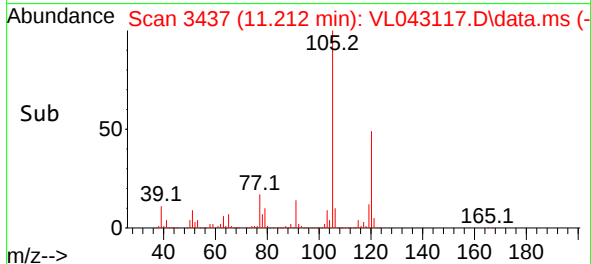
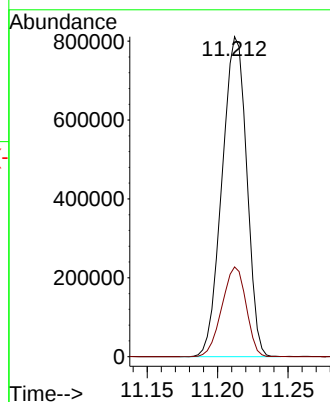
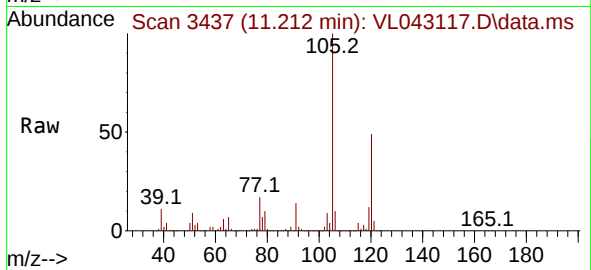
RR-VOAS-AIR

Tgt Ion:120 Resp: 989923

Ion Ratio Lower Upper

120 100

91 27.5 361.6 542.4#



#65

tert-Butylbenzene

Concen: 2.767 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

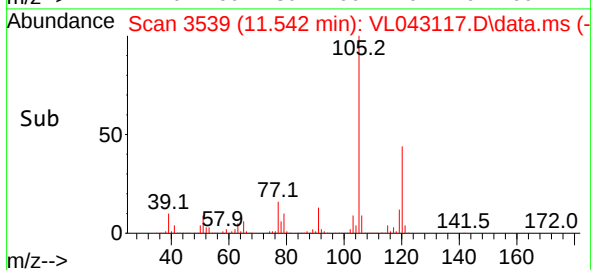
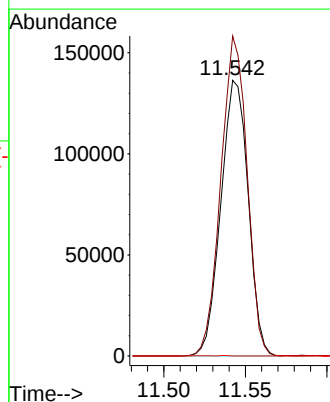
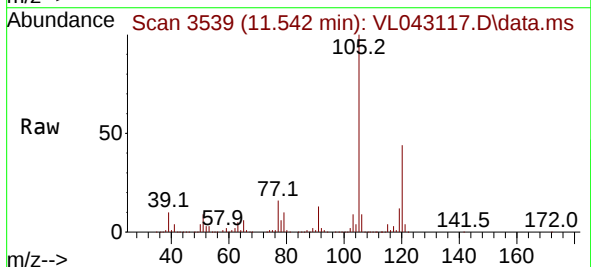
Tgt Ion:119 Resp: 158685

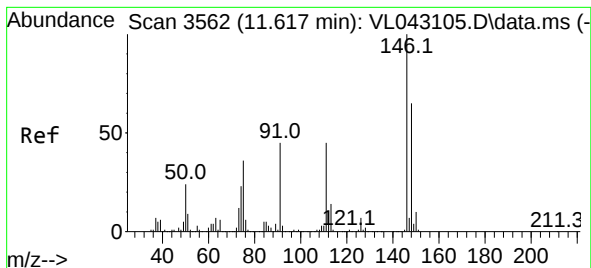
Ion Ratio Lower Upper

119 100

91 111.8 63.4 95.0#

134 0.1 17.3 25.9#

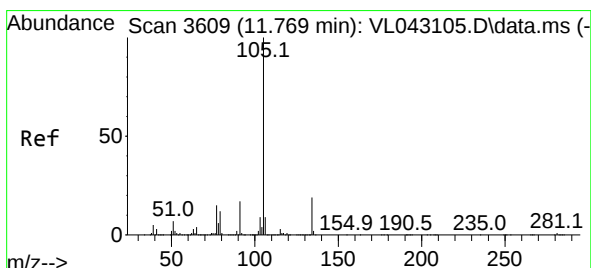
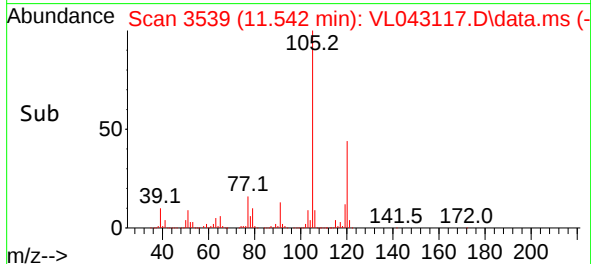
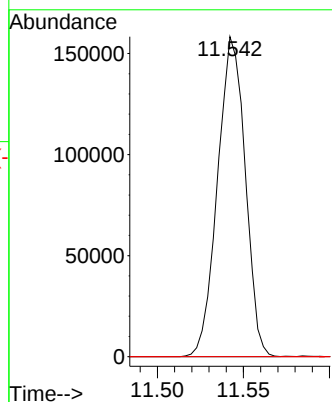
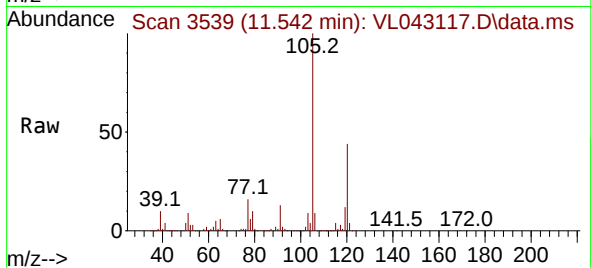




#66
Benzyl Chloride
Concen: 27.742 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.075 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

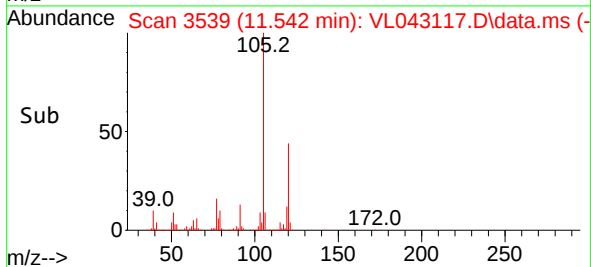
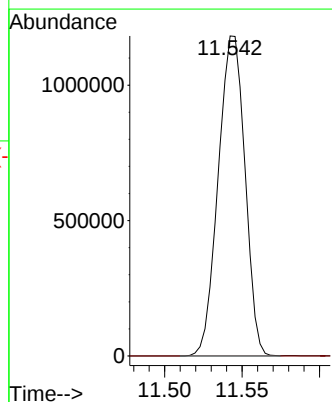
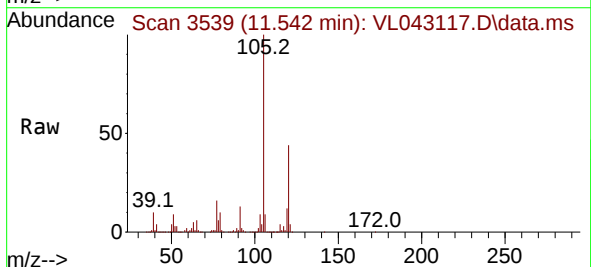
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

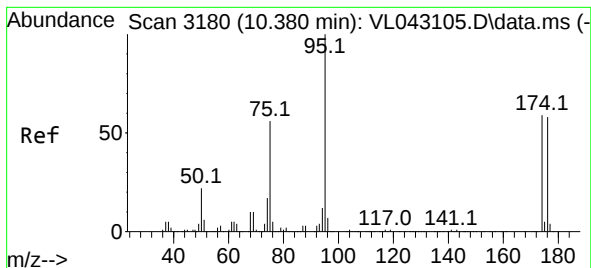
Tgt Ion: 91 Resp: 177042
Ion Ratio Lower Upper
91 100
126 0.0 14.6 22.0#
128 0.0 4.6 6.8#



#67
sec-Butylbenzene
Concen: 17.434 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.227 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 105 Resp: 1418707
Ion Ratio Lower Upper
105 100
134 0.0 15.5 23.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.365 ppbv

RT: 10.383 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

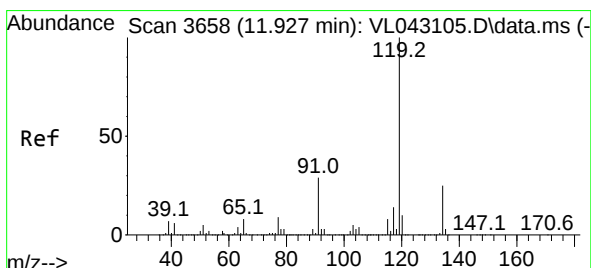
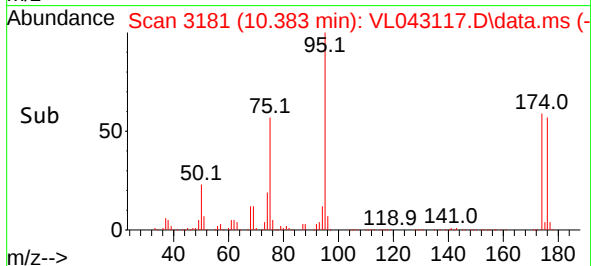
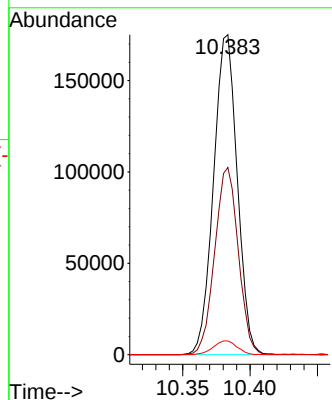
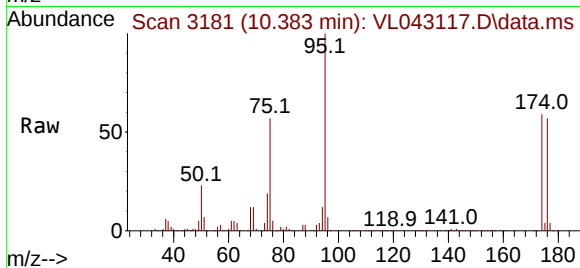
Tgt Ion: 95 Resp: 214126

Ion Ratio Lower Upper

95 100

174 58.3 48.3 72.5

175 4.4 3.8 5.8



#69

p-Isopropyltoluene

Concen: 2.294 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.385 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

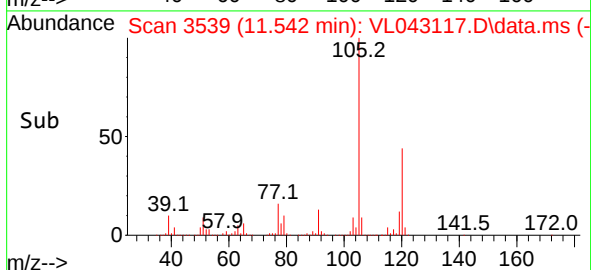
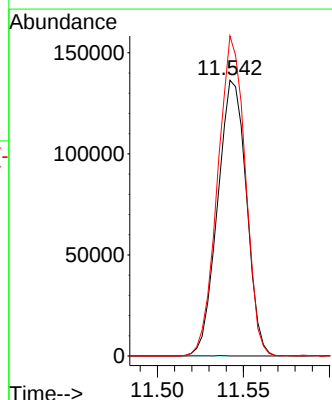
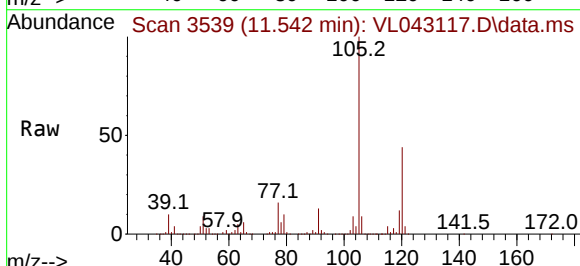
Tgt Ion: 119 Resp: 158645

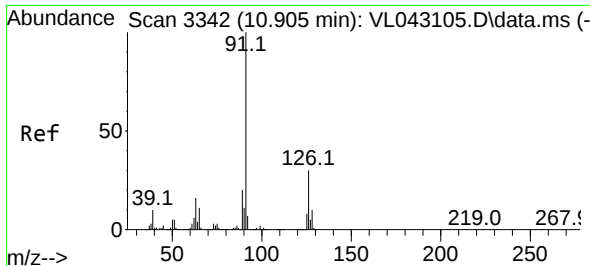
Ion Ratio Lower Upper

119 100

134 0.1 20.3 30.5#

91 111.8 22.6 33.8#

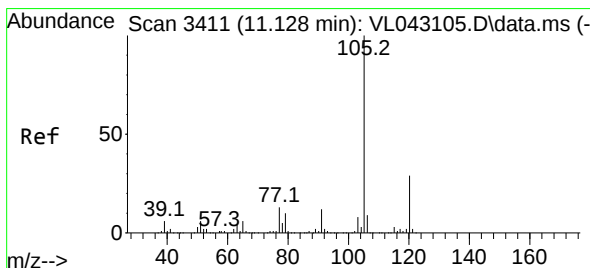
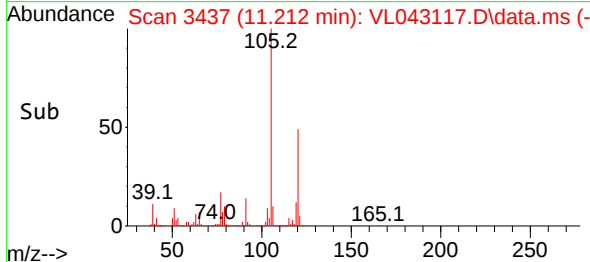
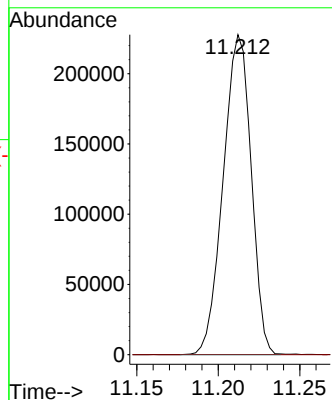
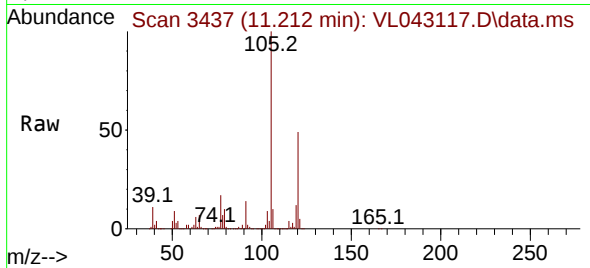




#71
2-Chlorotoluene
Concen: 5.490 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.307 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

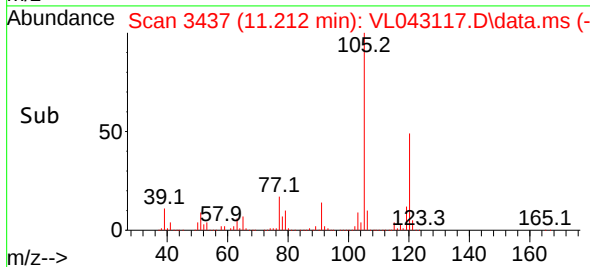
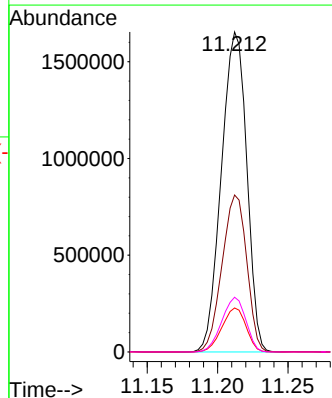
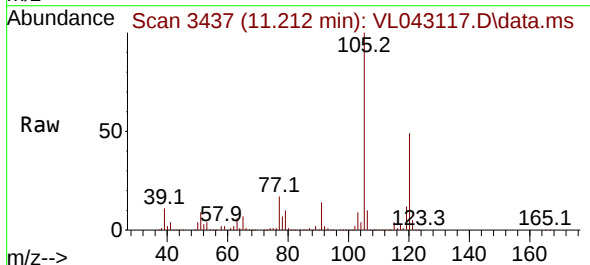
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

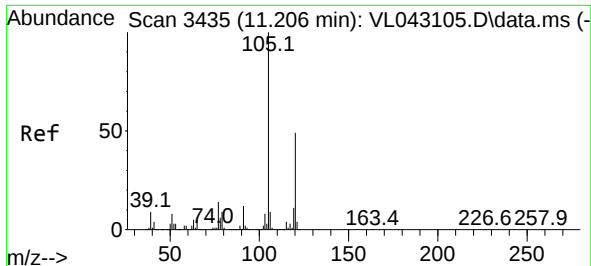
Tgt Ion: 91 Resp: 271880
Ion Ratio Lower Upper
91 100
126 0.0 12.0 48.0#



#72
4-Ethyltoluene
Concen: 46.965 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.084 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion: 105 Resp: 2075108
Ion Ratio Lower Upper
105 100
120 47.7 24.2 36.4#
91 13.1 10.0 15.0
77 16.2 10.7 16.1#

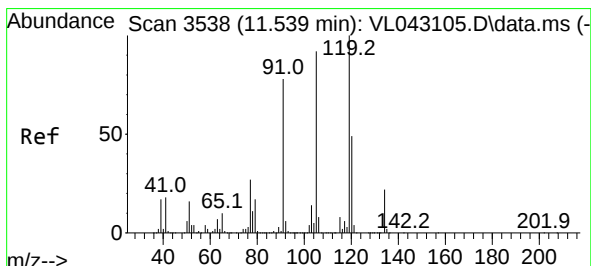
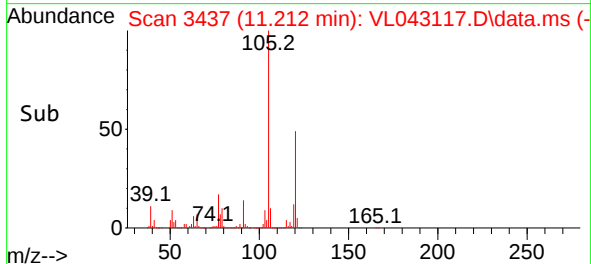
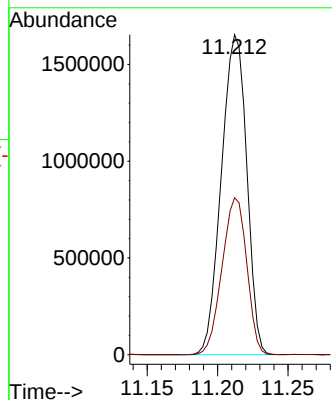
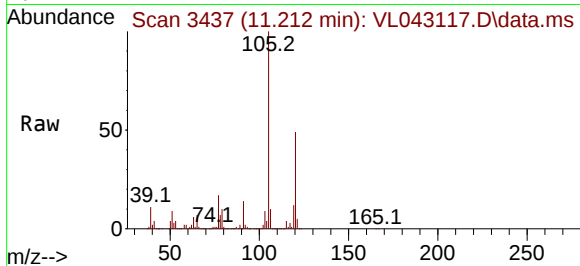




#73
1,3,5-Trimethylbenzene
Concen: 56.947 ppbv
RT: 11.212 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

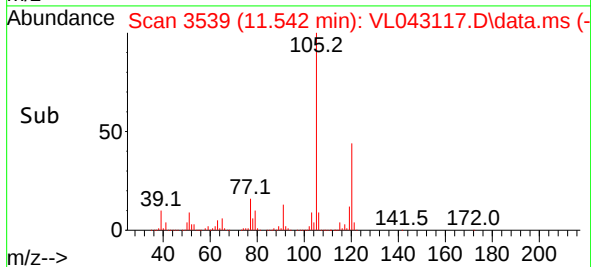
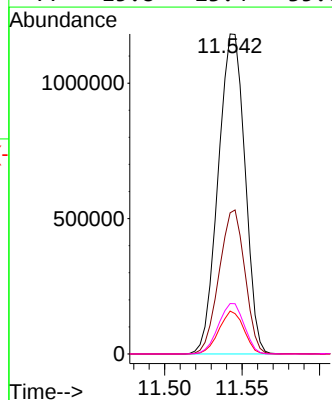
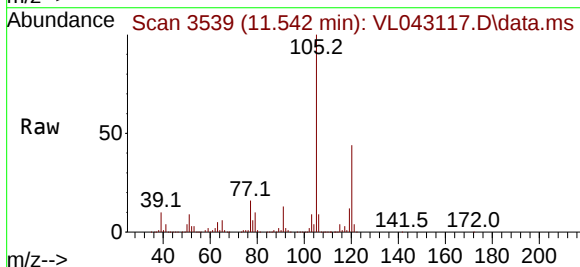
Instrument :
MSVOA_L
ClientSampleId :
RR-VOAS-AIR

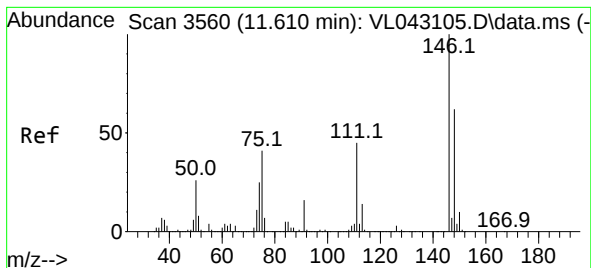
Tgt Ion:105 Resp: 2075108
Ion Ratio Lower Upper
105 100
120 49.1 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 34.791 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043117.D
Acq: 15 Oct 2025 10:50

Tgt Ion:105 Resp: 1418707
Ion Ratio Lower Upper
105 100
120 44.1 42.8 64.2
91 13.4 68.3 102.5#
77 15.8 23.4 35.0#





#75

1,3-Dichlorobenzene

Concen: 20.496 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

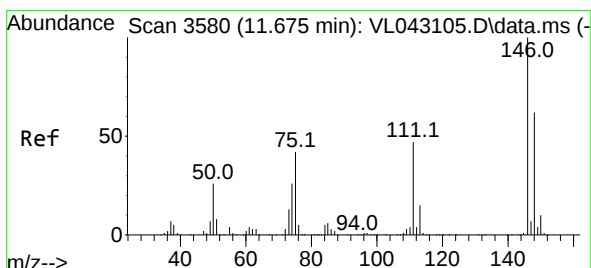
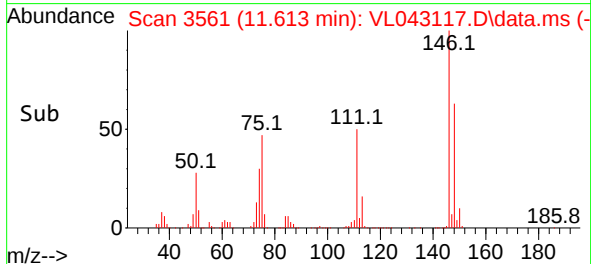
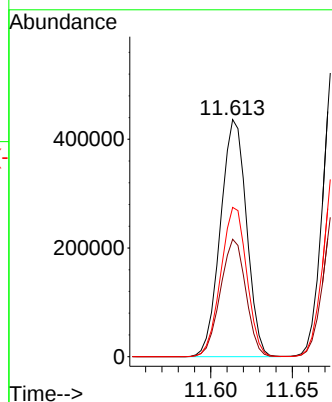
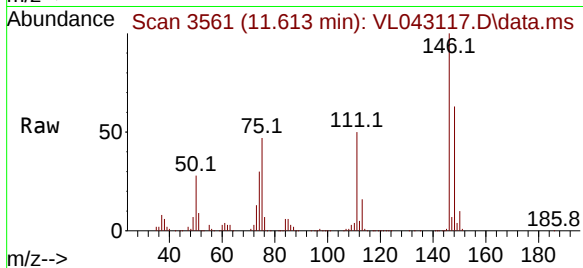
Tgt Ion:146 Resp: 484752

Ion Ratio Lower Upper

146 100

111 48.3 23.3 69.9

148 62.7 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 32.356 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

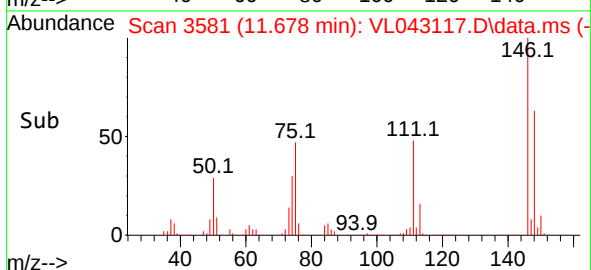
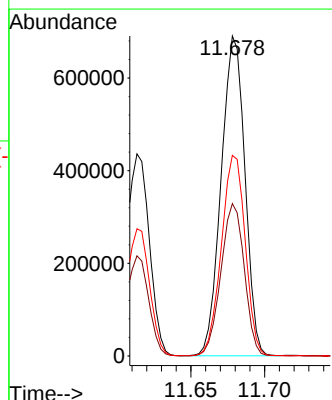
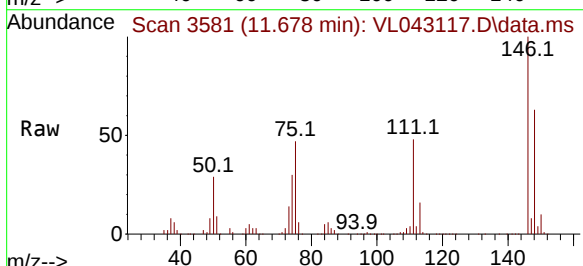
Tgt Ion:146 Resp: 771622

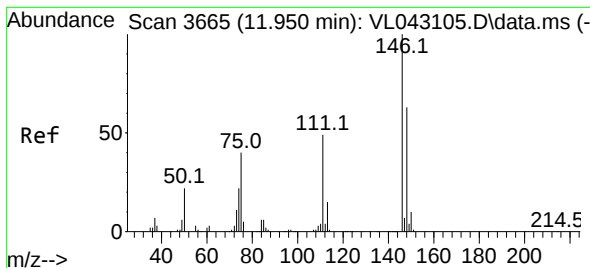
Ion Ratio Lower Upper

146 100

111 47.1 22.4 67.0

148 63.3 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 33.725 ppbv

RT: 11.678 min Scan# 31

Delta R.T. -0.272 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

RR-VOAS-AIR

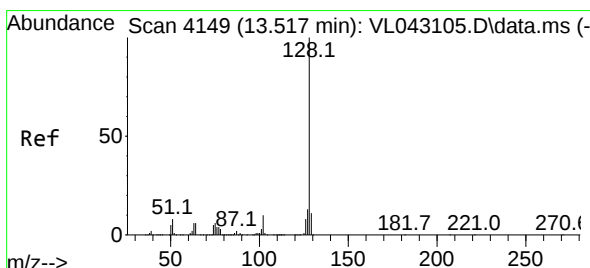
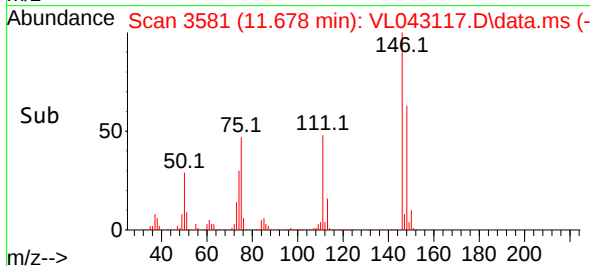
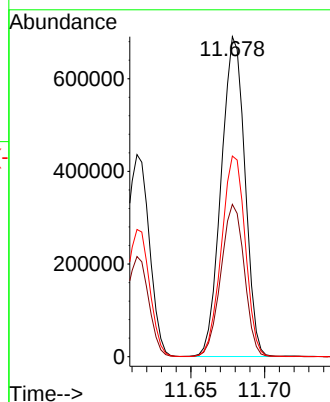
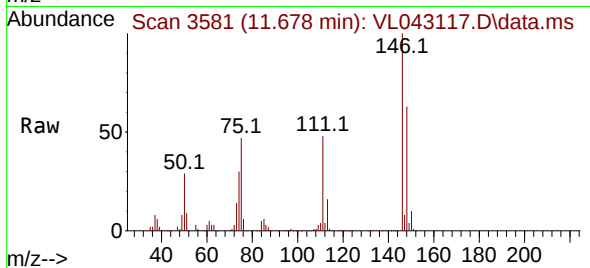
Tgt Ion:146 Resp: 771622

Ion Ratio Lower Upper

146 100

111 47.1 24.0 72.0

148 63.3 31.1 93.3



#79

Naphthalene

Concen: 0.053 ppbv

RT: 13.520 min Scan# 4150

Delta R.T. 0.003 min

Lab File: VL043117.D

Acq: 15 Oct 2025 10:50

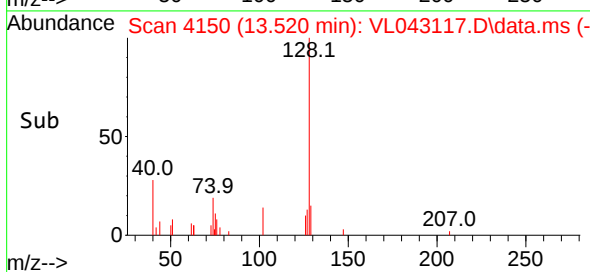
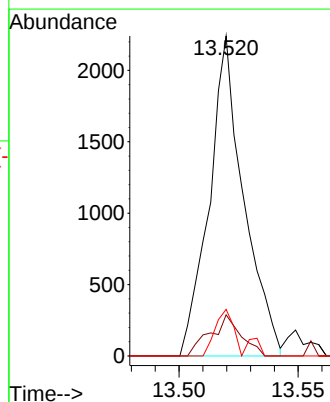
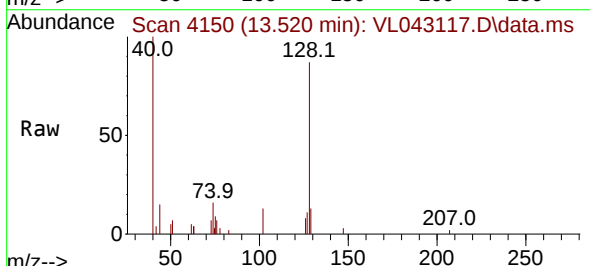
Tgt Ion:128 Resp: 2254

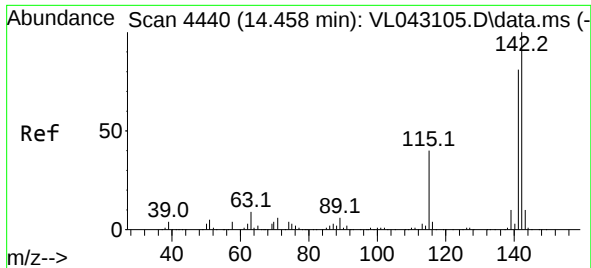
Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

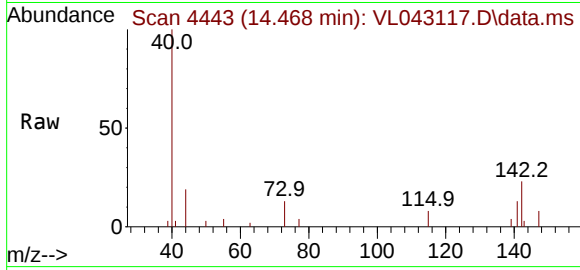
129 14.5 9.1 13.7#





#80
 Naphthalene, 2-methyl-
 Concen: 0.087 ppbv
 RT: 14.468 min Scan# 44
 Delta R.T. 0.010 min
 Lab File: VL043117.D
 Acq: 15 Oct 2025 10:50

Instrument :
 MSVOA_L
 ClientSampleId :
 RR-VOAS-AIR



Tgt Ion:	142	Resp:	967
Ion	Ratio	Lower	Upper
142	100		
141	54.5	64.6	97.0#
115	34.5	30.2	45.4

