

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043009.D
 Acq On : 24 Sep 2025 14:40
 Operator : SY/MD
 Sample : Q3154-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Sep 25 01:56:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	155479	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	479985	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	425820	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	319021	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

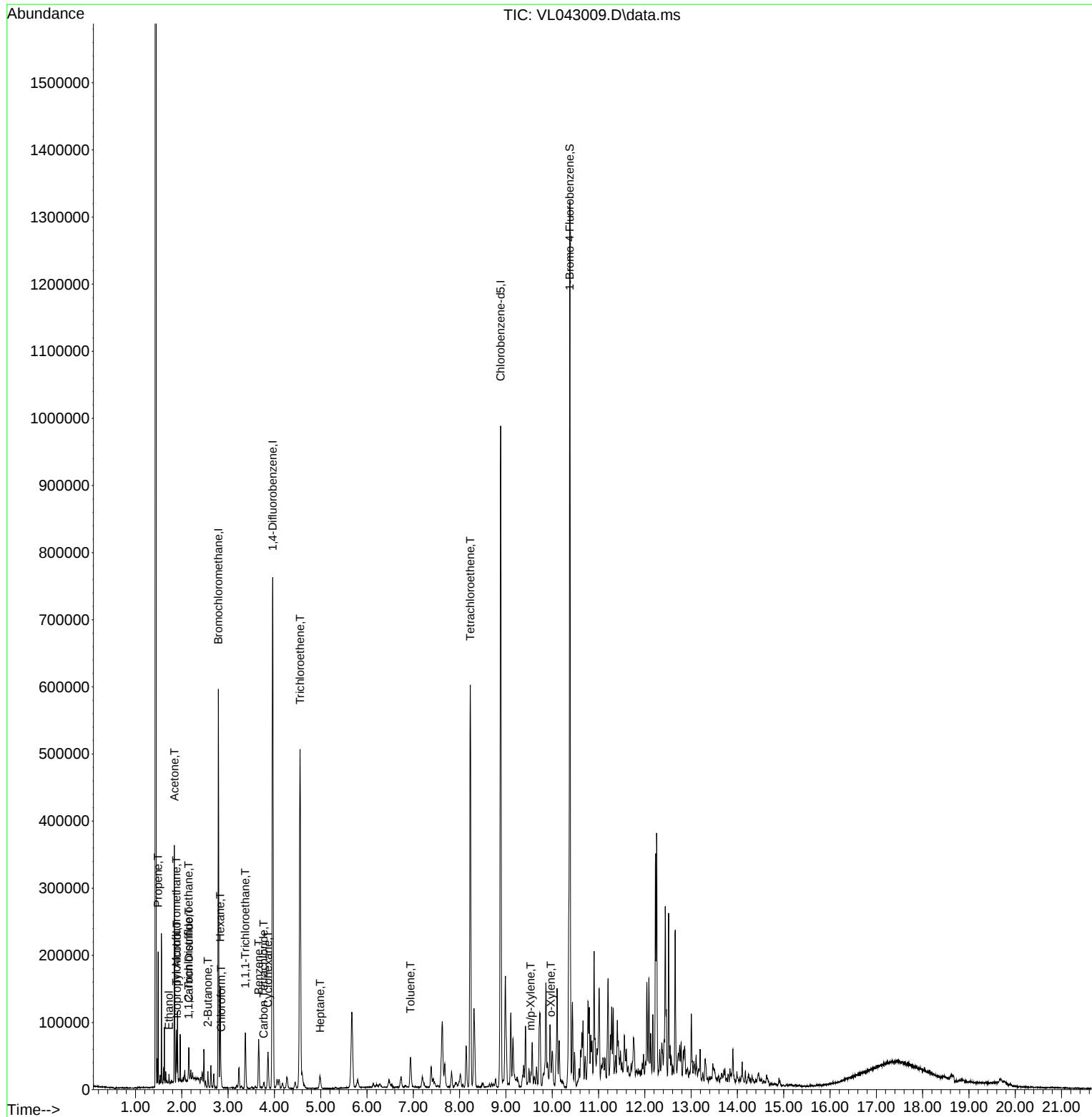
Target Compounds						Qvalue
9) Propene	1.489	41	16859m	1.487	ppbv	
10) Heptane	4.985	43	7689m	0.254	ppbv	
11) Trichlorofluoromethane	1.881	101	20358	1.010	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.143	101	2961	0.181	ppbv	87
13) Ethanol	1.722	45	4687	4.261	ppbv #	35
15) Acetone	1.839	43	157803	7.792	ppbv	97
19) Isopropyl Alcohol	1.890	45	9396m	0.772	ppbv	
26) Hexane	2.829	57	34751	1.490	ppbv #	40
27) Carbon Disulfide	2.153	76	25618	1.224	ppbv #	17
29) Chloroform	2.852	83	5207	0.171	ppbv	86
30) Cyclohexane	3.861	84	13520	0.693	ppbv	94
32) 1,1,1-Trichloroethane	3.373	97	32583	0.989	ppbv	96
34) 2-Butanone	2.564	43	14405	0.428	ppbv	96
35) Carbon Tetrachloride	3.768	117	1786m	0.057	ppbv	
36) Benzene	3.661	78	44595	0.989	ppbv	99
38) Trichloroethene	4.554	130	151366	6.757	ppbv	96
52) Tetrachloroethene	8.231	164	115847	6.643	ppbv	97
53) Toluene	6.939	91	33518	0.628	ppbv	99
59) m/p-Xylene	9.535	91	10176	0.185	ppbv #	100
60) o-Xylene	9.969	91	7954	0.144	ppbv	91

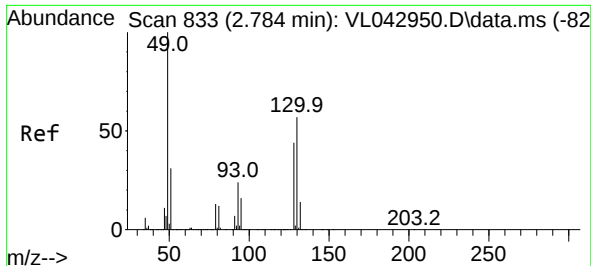
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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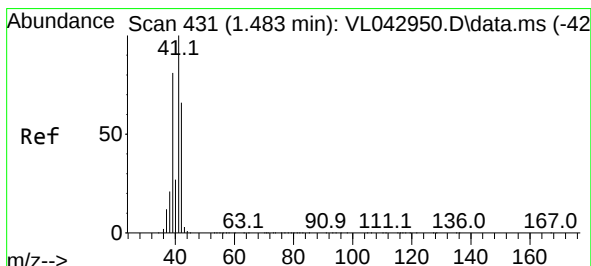
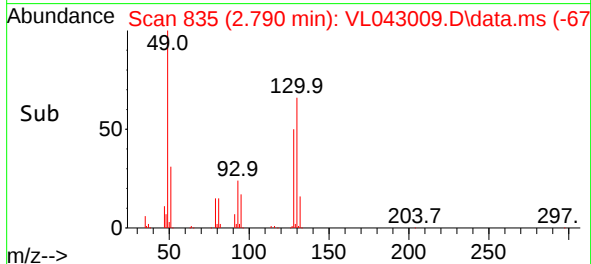
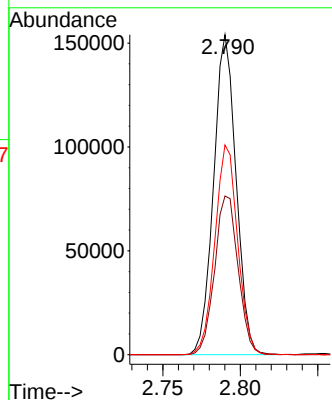
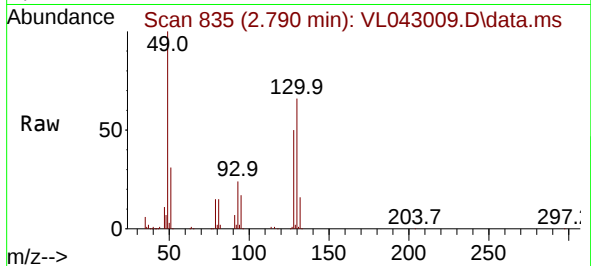




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

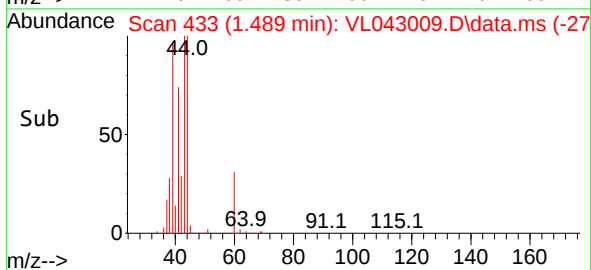
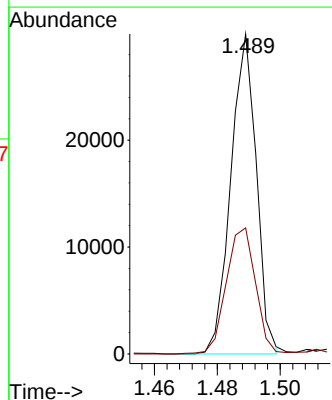
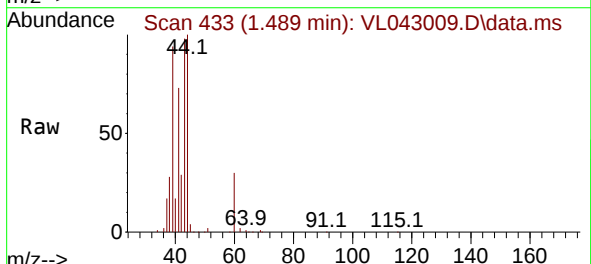
Instrument :
MSVOA_L
ClientSampleId :
SV1

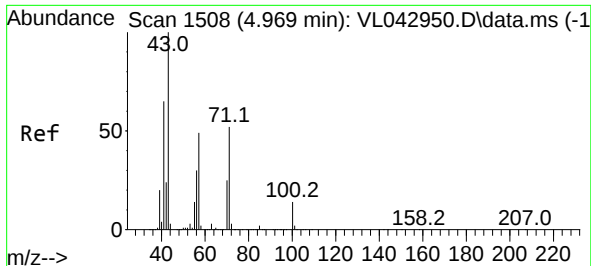
Tgt Ion: 49 Resp: 155479
Ion Ratio Lower Upper
49 100
128 51.8 22.9 68.8
130 66.4 29.1 87.3



#9
Propene
Concen: 1.487 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 41 Resp: 16859
Ion Ratio Lower Upper
41 100
42 95.0 57.4 86.2#

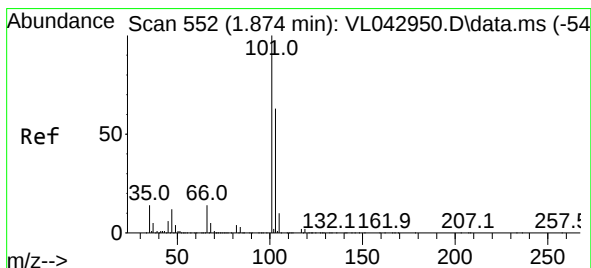
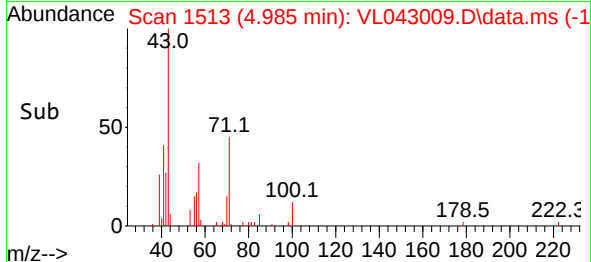
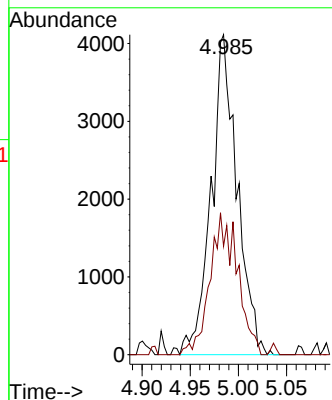
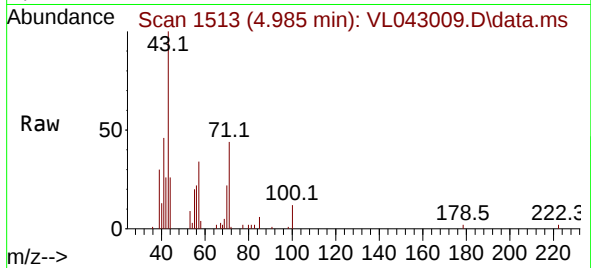




#10
Heptane
Concen: 0.254 ppbv m
RT: 4.985 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

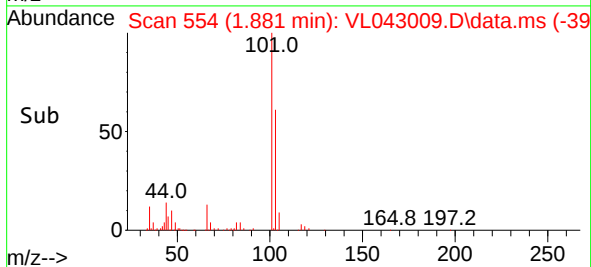
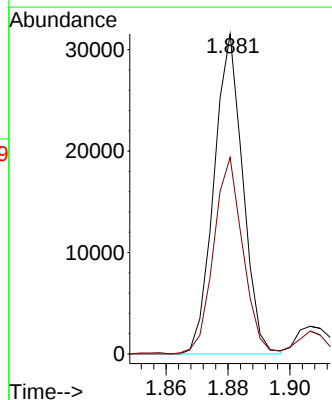
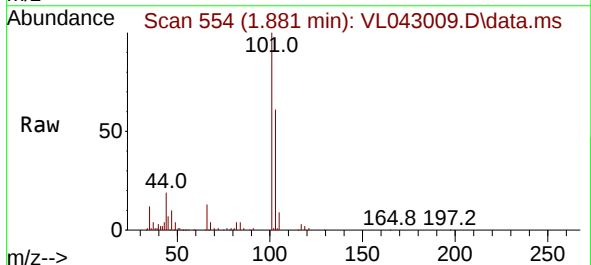
Instrument :
MSVOA_L
ClientSampleId :
SV1

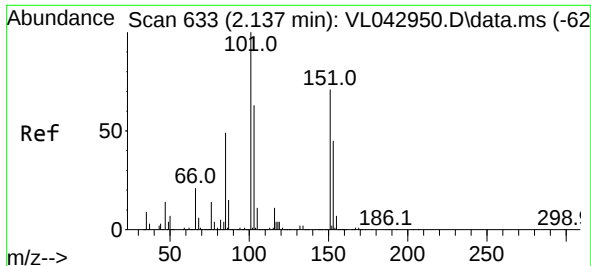
Tgt Ion: 43 Resp: 7689
Ion Ratio Lower Upper
43 100
57 47.7 38.6 57.8



#11
Trichlorofluoromethane
Concen: 1.010 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 101 Resp: 20358
Ion Ratio Lower Upper
101 100
103 61.1 50.1 75.1

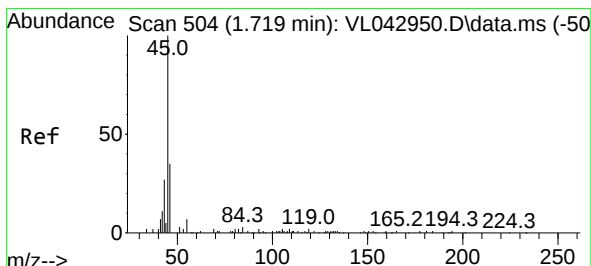
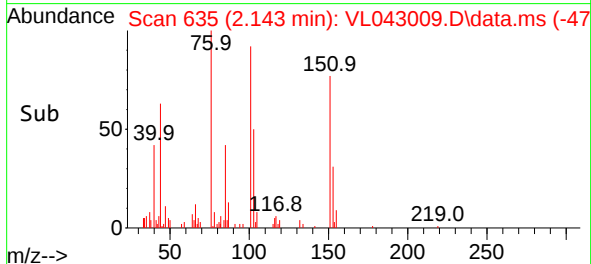
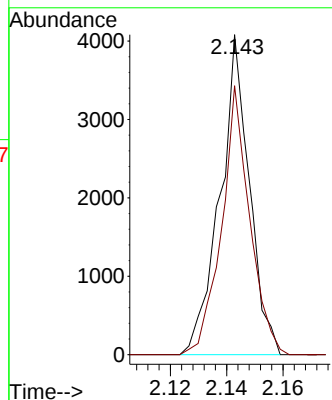
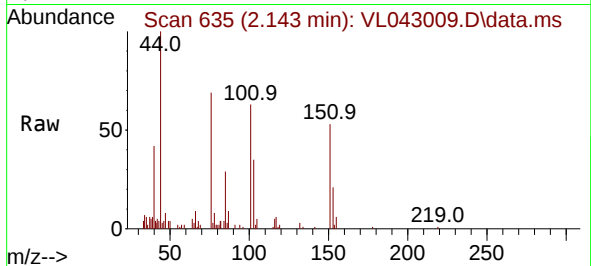




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.181 ppbv
 RT: 2.143 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

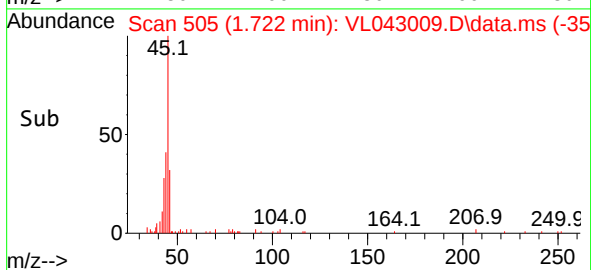
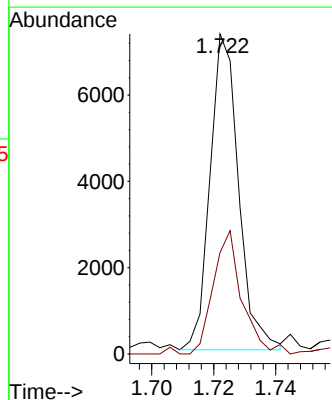
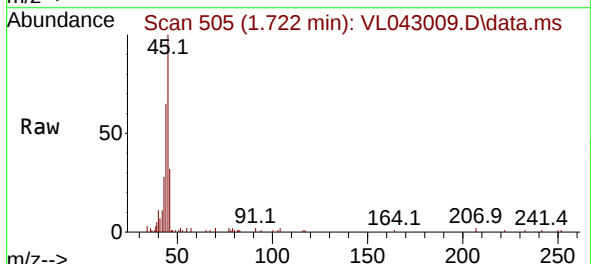
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

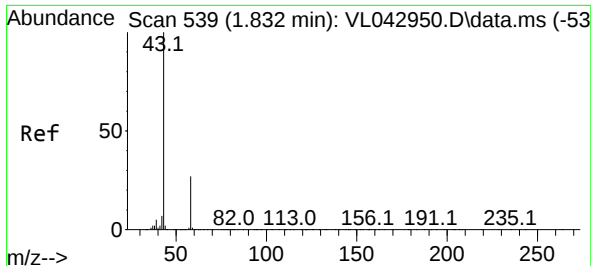
Tgt Ion: 101 Resp: 2961
 Ion Ratio Lower Upper
 101 100
 151 80.2 55.7 83.5



#13
 Ethanol
 Concen: 4.261 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

Tgt Ion: 45 Resp: 4687
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.2 64.6#

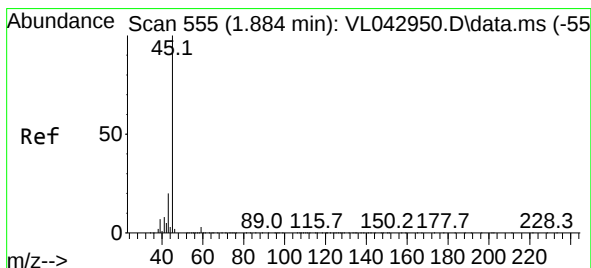
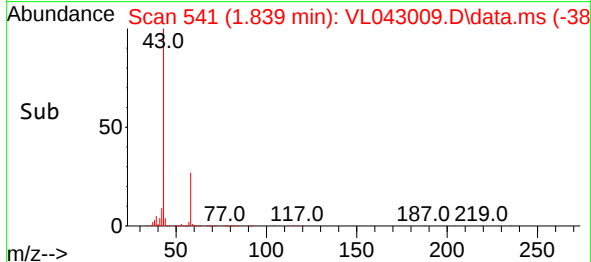
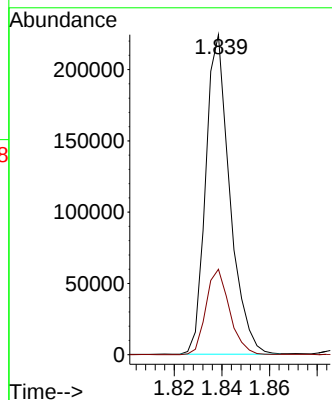
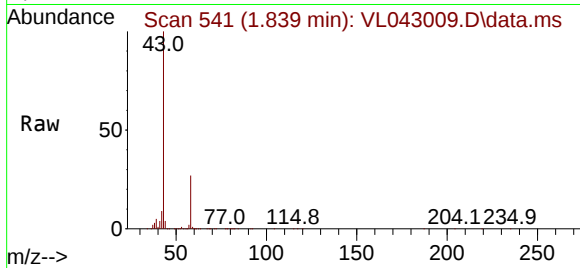




#15
Acetone
Concen: 7.792 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

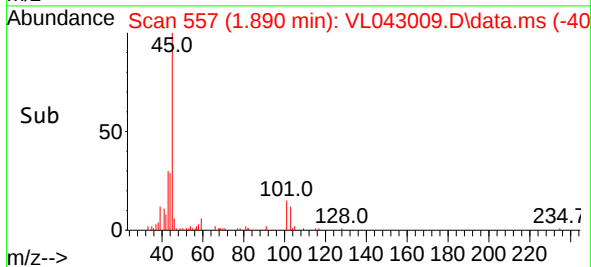
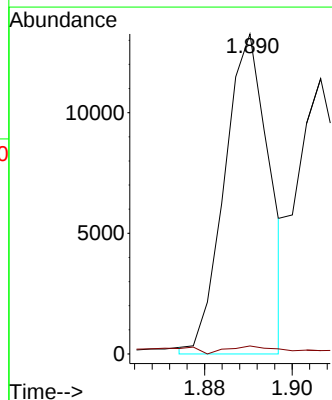
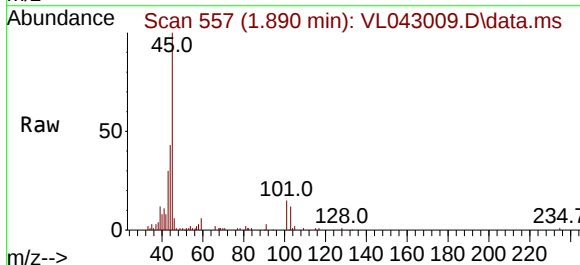
Instrument :
MSVOA_L
ClientSampleId :
SV1

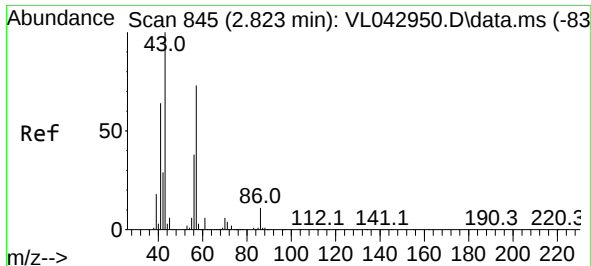
Tgt Ion: 43 Resp: 157803
Ion Ratio Lower Upper
43 100
58 26.5 22.3 33.5



#19
Isopropyl Alcohol
Concen: 0.772 ppbv m
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 45 Resp: 9396
Ion Ratio Lower Upper
45 100
58 0.0 31.0 46.6#

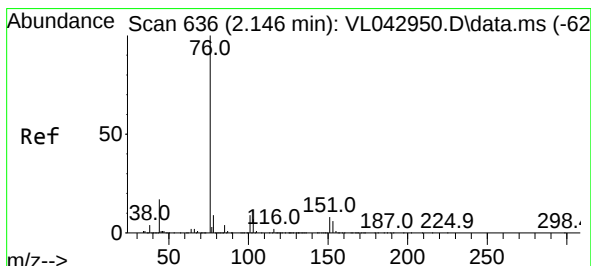
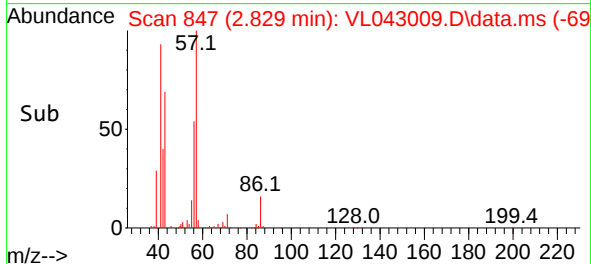
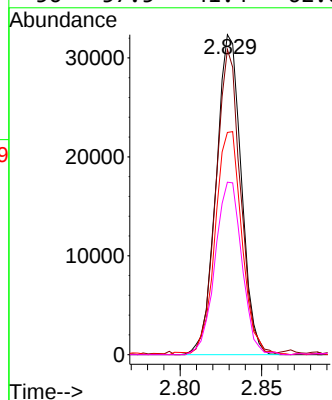
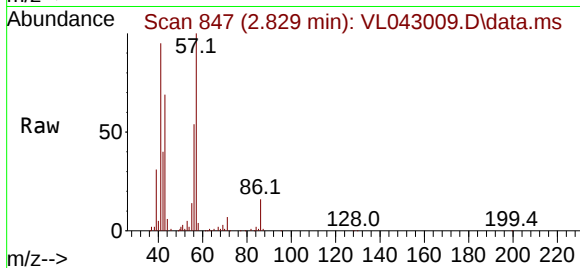




#26
Hexane
Concen: 1.490 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

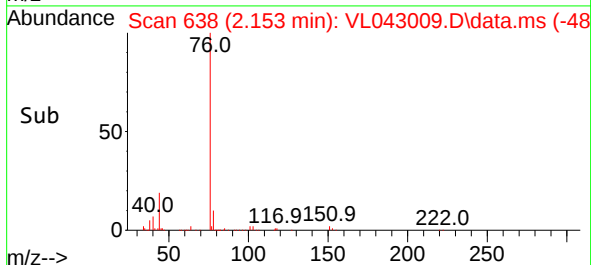
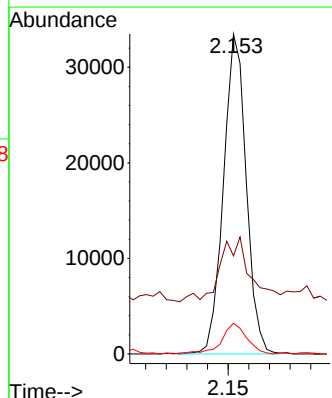
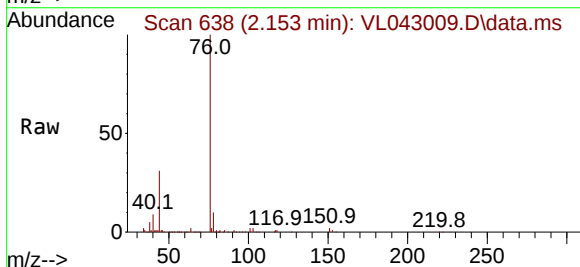
Instrument :
MSVOA_L
ClientSampleId :
SV1

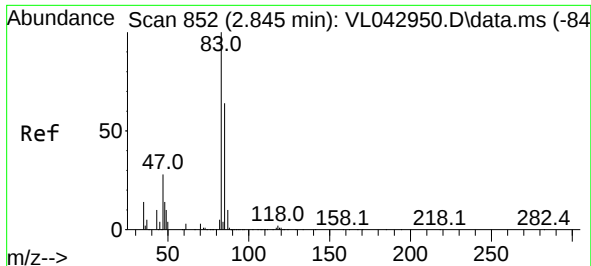
Tgt Ion: 57 Resp: 34751
Ion Ratio Lower Upper
57 100
41 95.5 71.7 107.5
43 73.9 180.8 271.2#
56 57.5 41.4 62.0



#27
Carbon Disulfide
Concen: 1.224 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 76 Resp: 25618
Ion Ratio Lower Upper
76 100
44 78.5 15.6 23.4#
78 11.0 8.9 13.3





#29

Chloroform

Concen: 0.171 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

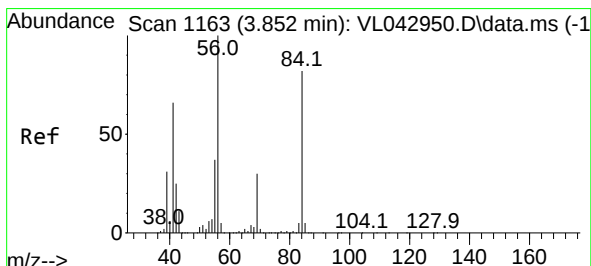
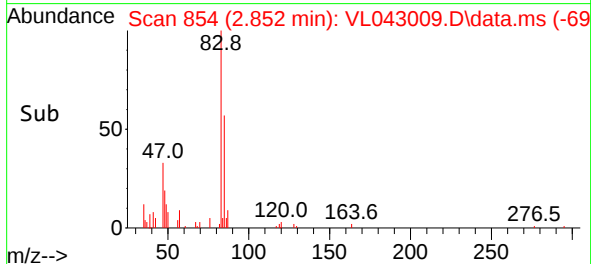
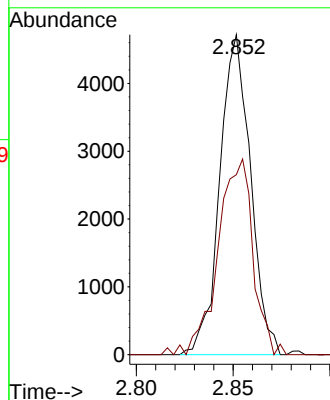
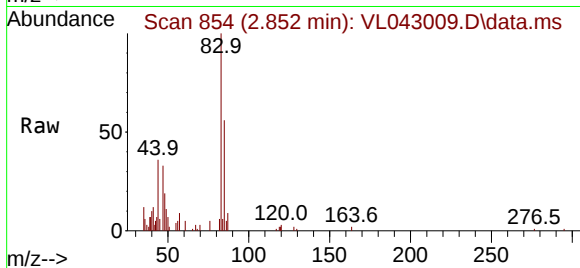
SV1

Tgt Ion: 83 Resp: 5207

Ion Ratio Lower Upper

83 100

85 53.2 51.2 76.8



#30

Cyclohexane

Concen: 0.693 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

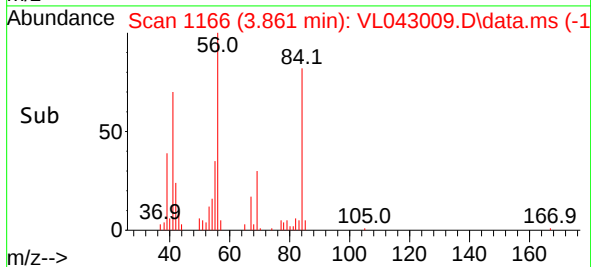
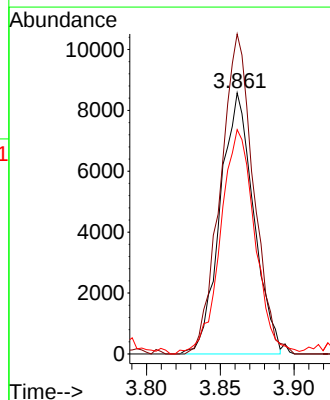
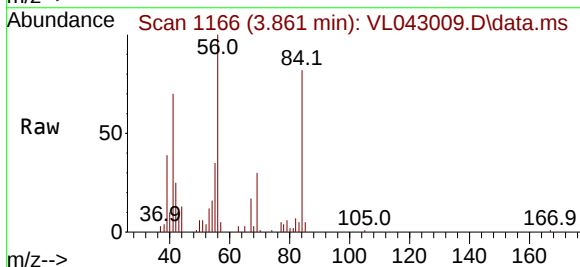
Tgt Ion: 84 Resp: 13520

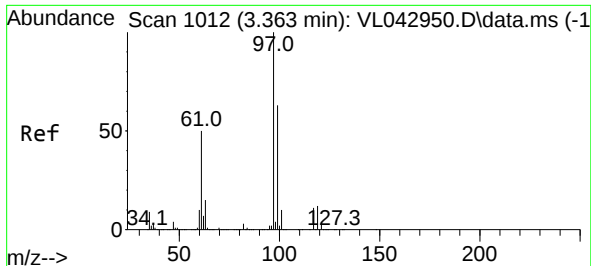
Ion Ratio Lower Upper

84 100

56 121.1 102.2 153.4

41 88.1 65.6 98.4





#32

1,1,1-Trichloroethane

Concen: 0.989 ppbv

RT: 3.373 min Scan# 1012

Delta R.T. 0.010 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

SV1

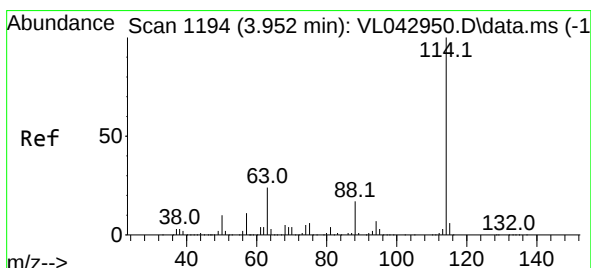
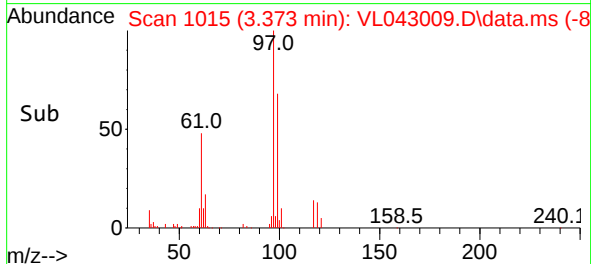
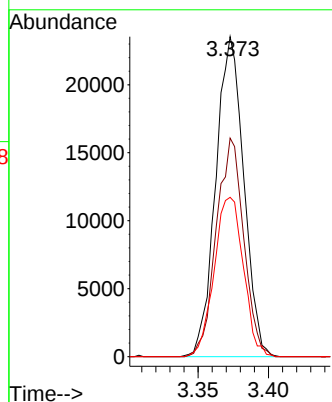
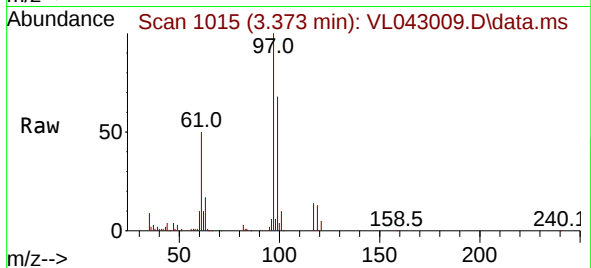
Tgt Ion: 97 Resp: 32583

Ion Ratio Lower Upper

97 100

99 66.8 51.1 76.7

61 51.9 39.8 59.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

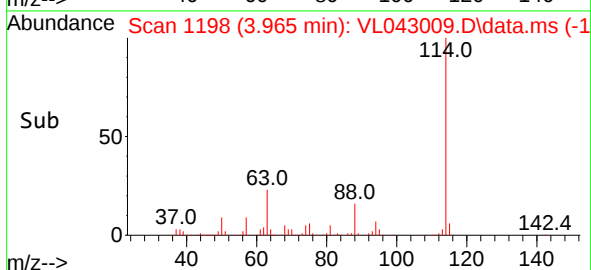
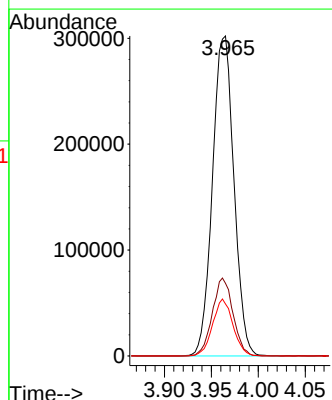
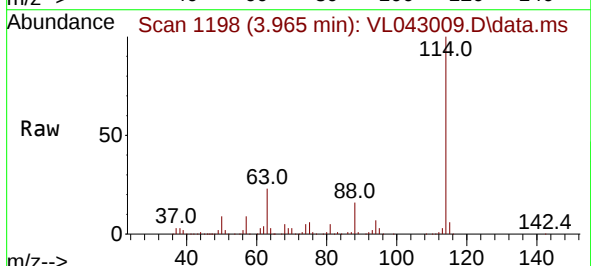
Tgt Ion: 114 Resp: 479985

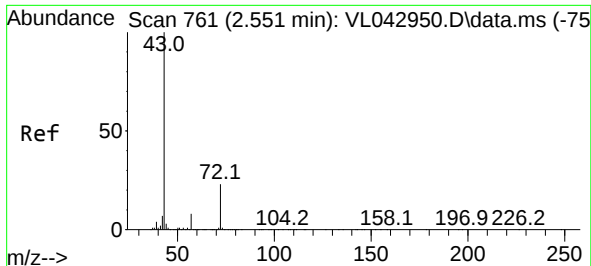
Ion Ratio Lower Upper

114 100

63 23.5 19.4 29.2

88 16.9 14.2 21.2

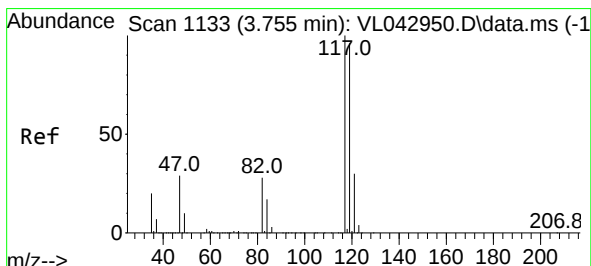
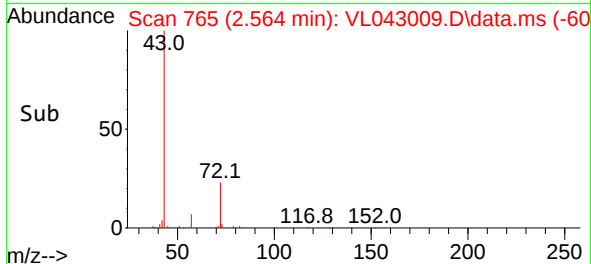
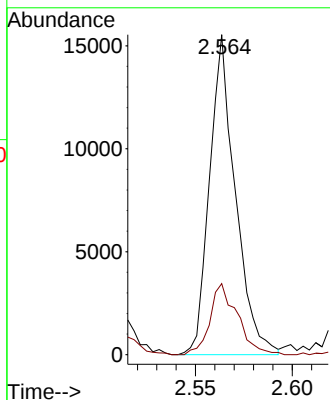
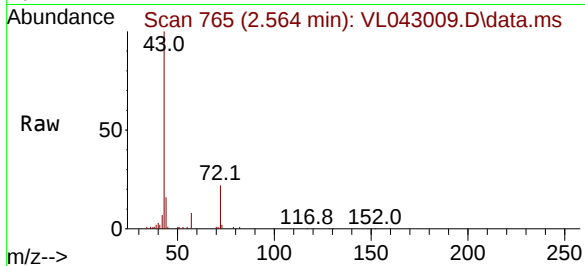




#34
2-Butanone
Concen: 0.428 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.013 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

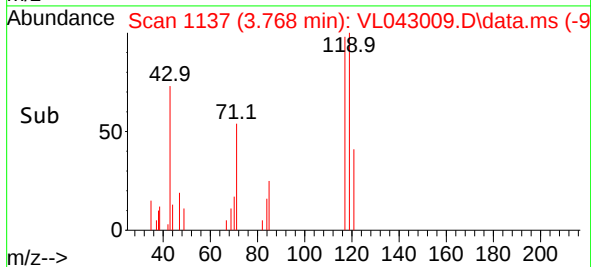
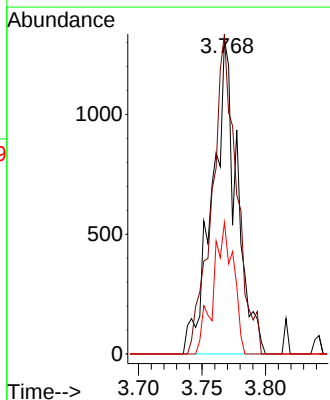
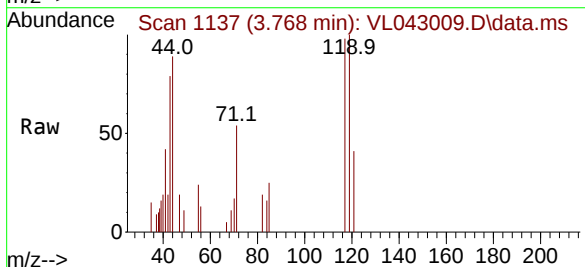
Instrument :
MSVOA_L
ClientSampleId :
SV1

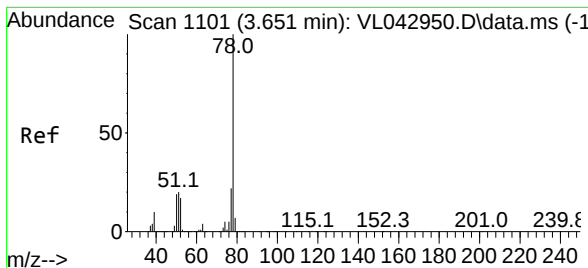
Tgt Ion: 43 Resp: 14405
Ion Ratio Lower Upper
43 100
72 24.1 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.013 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 117 Resp: 1786
Ion Ratio Lower Upper
117 100
119 101.6 76.9 115.3
121 41.8 23.7 35.5#





#36

Benzene

Concen: 0.989 ppbv

RT: 3.661 min Scan# 1101

Delta R.T. 0.010 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

SV1

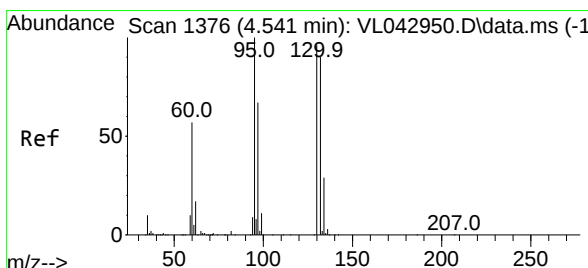
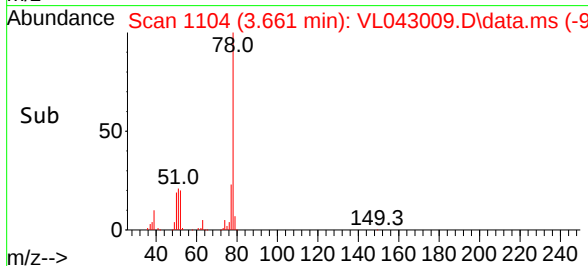
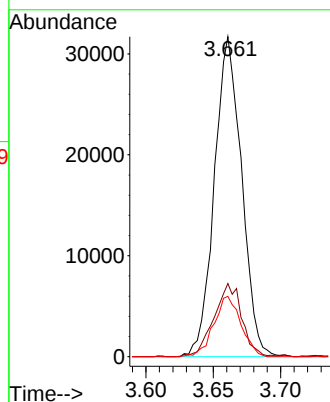
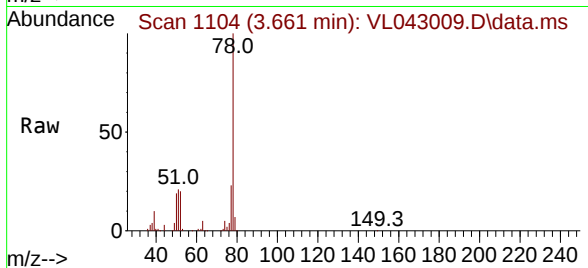
Tgt Ion: 78 Resp: 44595

Ion Ratio Lower Upper

78 100

77 22.9 17.8 26.6

50 18.9 15.0 22.4



#38

Trichloroethene

Concen: 6.757 ppbv

RT: 4.554 min Scan# 1380

Delta R.T. 0.013 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Tgt Ion:130 Resp: 151366

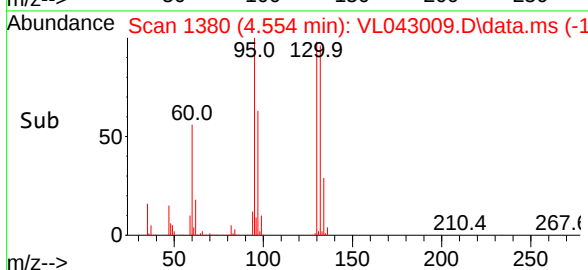
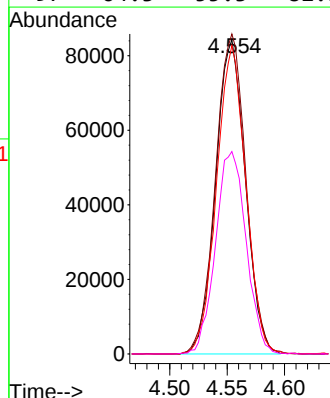
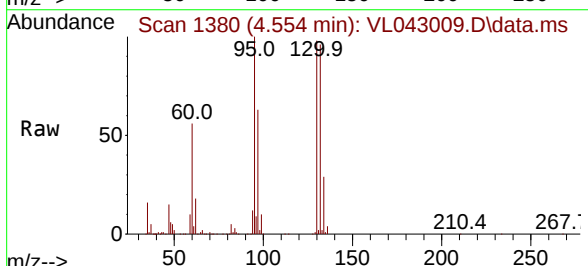
Ion Ratio Lower Upper

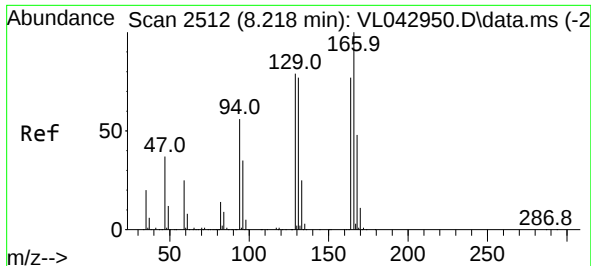
130 100

95 101.8 83.0 124.4

132 98.2 74.6 112.0

97 64.3 55.3 82.9

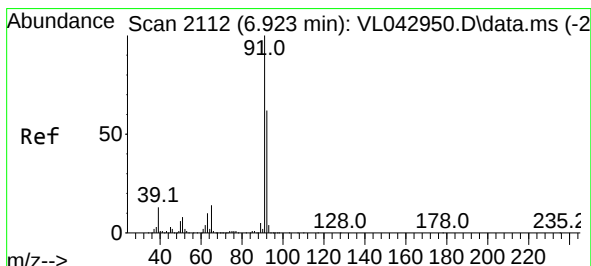
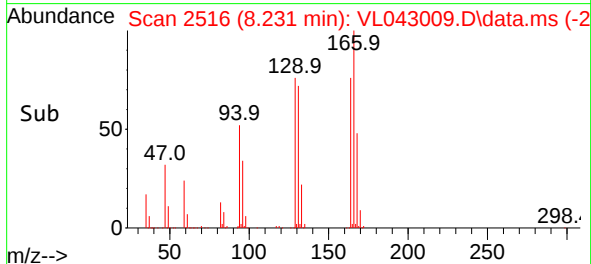
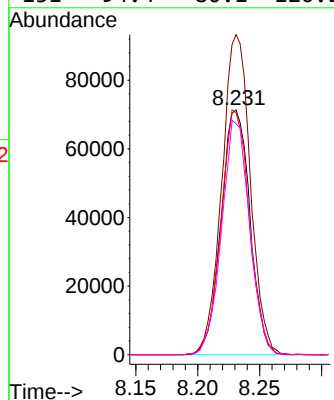
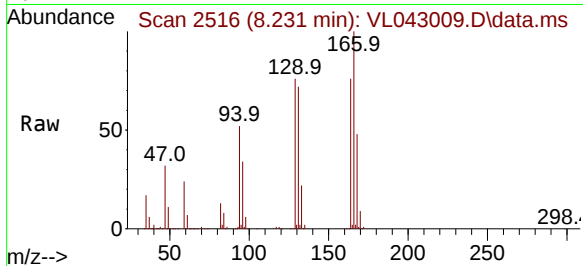




#52
Tetrachloroethene
Concen: 6.643 ppbv
RT: 8.231 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

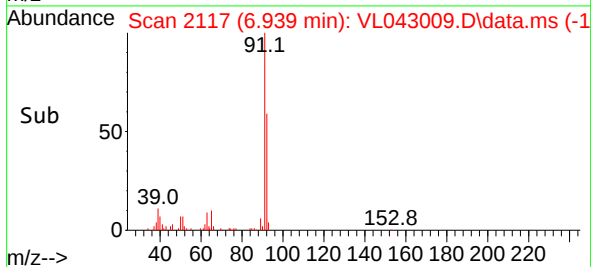
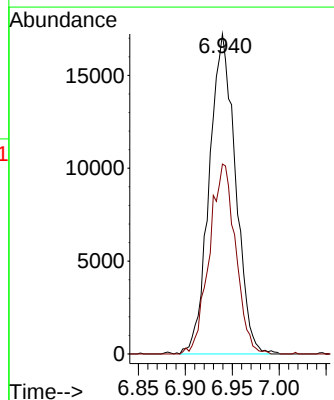
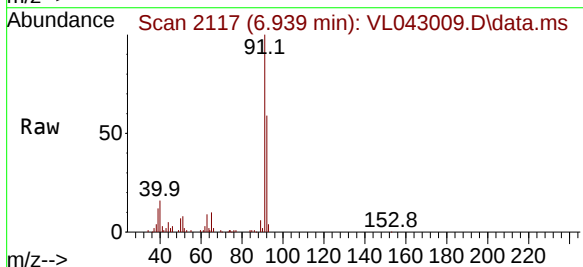
Instrument :
MSVOA_L
ClientSampleId :
SV1

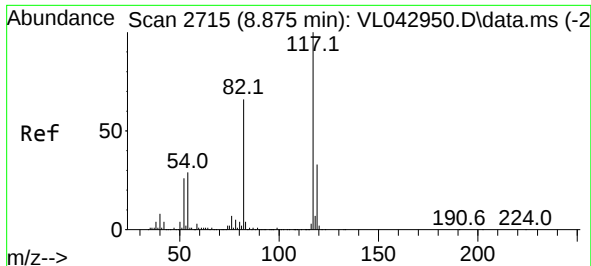
Tgt Ion:164 Resp: 115847
Ion Ratio Lower Upper
164 100
166 130.8 103.5 155.3
129 98.8 82.2 123.4
131 94.4 80.1 120.1



#53
Toluene
Concen: 0.628 ppbv
RT: 6.939 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 91 Resp: 33518
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.2

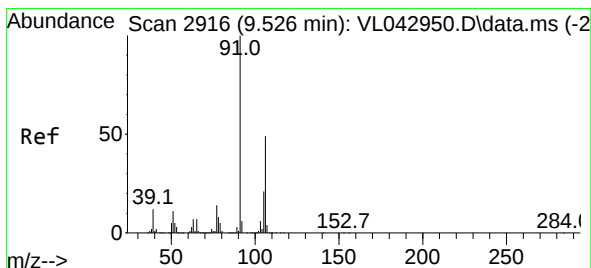
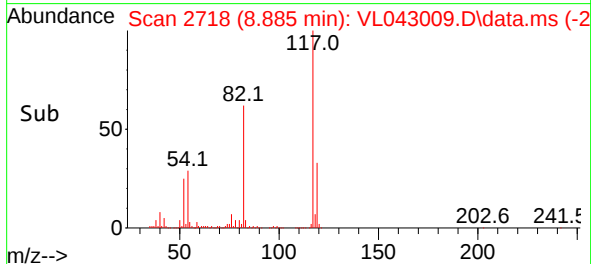
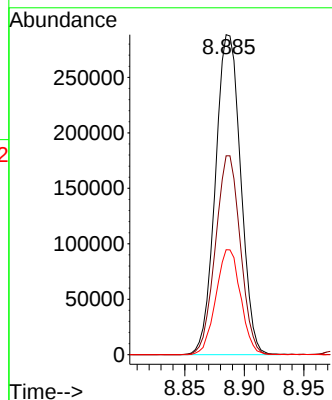
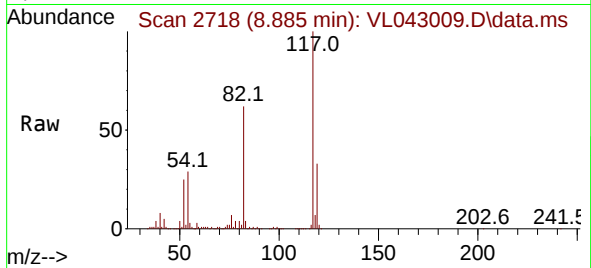




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

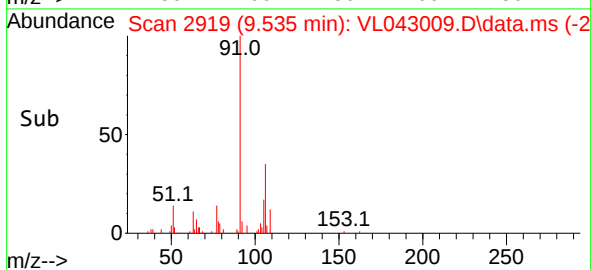
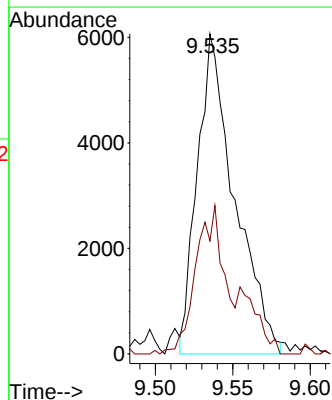
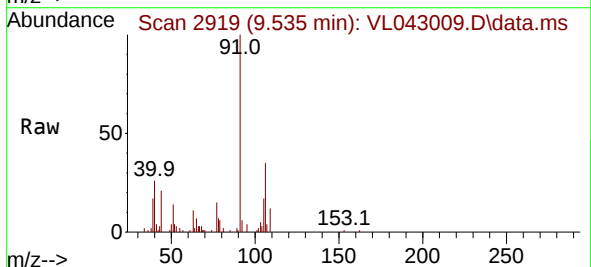
Instrument :
MSVOA_L
ClientSampleId :
SV1

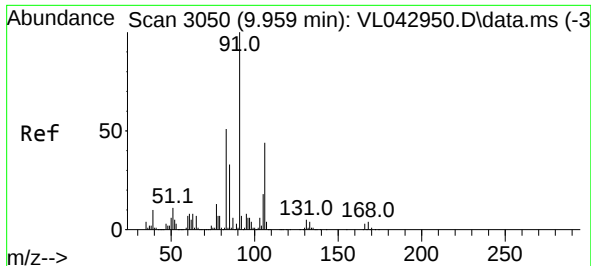
Tgt Ion:117 Resp: 425820
Ion Ratio Lower Upper
117 100
82 61.3 52.8 79.2
119 32.1 26.5 39.7



#59
m/p-Xylene
Concen: 0.185 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 91 Resp: 10176
Ion Ratio Lower Upper
91 100
106 46.0 0.0 0.0#

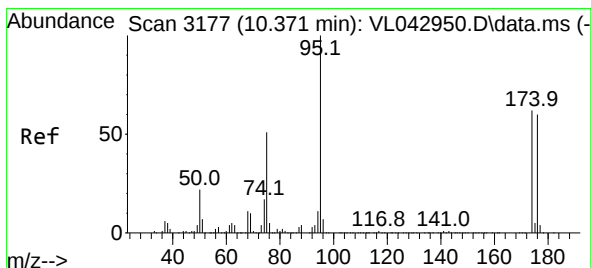
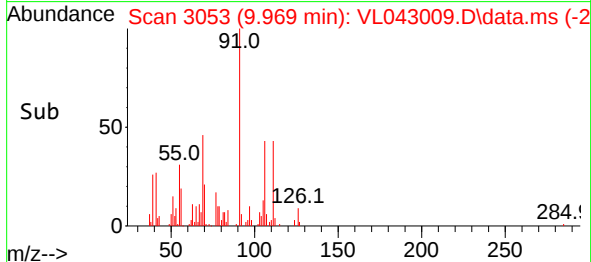
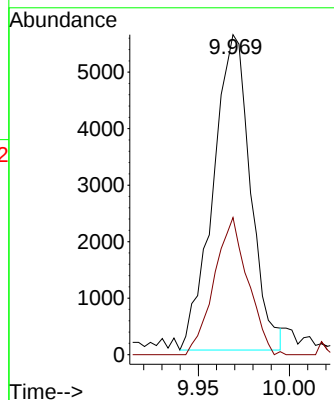
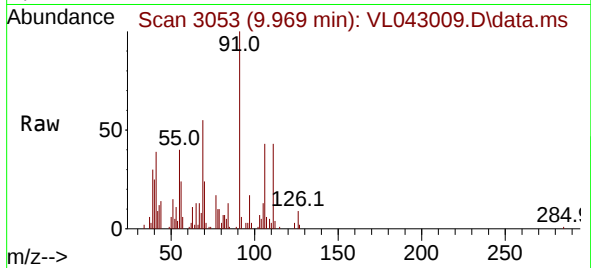




#60
o-Xylene
Concen: 0.144 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 7954
Ion Ratio Lower Upper
91 100
106 39.1 22.4 67.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 95 Resp: 319021
Ion Ratio Lower Upper
95 100
174 72.9 51.4 77.2
175 5.4 4.0 6.0

