

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

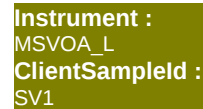
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

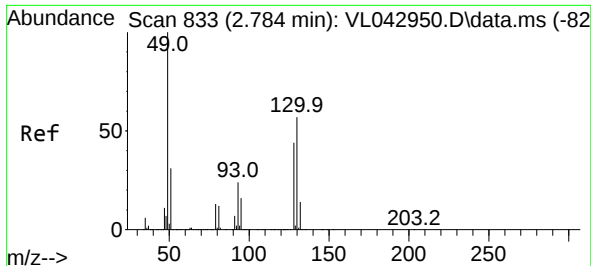
Internal Standards						
1) Bromochloromethane	2.790	49	155479	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	479985	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	425820	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	319021	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1400	0.067	ppbv	90
4) Chloromethane	1.534	50	435	0.046	ppbv #	75
6) Bromomethane	1.670	94	163	0.054	ppbv #	41
9) Propene	1.560	41	19320	1.704	ppbv	87
10) Heptane	4.985	43	5761	0.190	ppbv #	77
11) Trichlorofluoromethane	1.881	101	20358	1.010	ppbv	98
12) 1,1,2-Trichlorotrifluo...	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
16) 1,3-Butadiene	1.602	39	2597	0.272	ppbv #	55
17) tert-Butyl alcohol	2.046	59	2203	0.099	ppbv #	63
19) Isopropyl Alcohol	1.907	45	8044	0.661	ppbv #	36
20) Methylene Chloride	2.062	84	2646	Below Cal	#	92
23) Vinyl Acetate	2.476	43	15649	0.541	ppbv #	49
24) 1,1-Dichloroethane	2.411	63	1268	0.075	ppbv #	94
25) Ethyl Acetate	2.832	43	24960	0.488	ppbv #	81
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
36) Benzene	3.661	78	44595	0.989	ppbv	99
38) Trichloroethene	4.554	130	151366	6.757	ppbv	96
39) 1,2-Dichloropropane	3.962	63	112779	6.854	ppbv #	24
52) Tetrachloroethene	8.231	164	115847	6.643	ppbv	97
53) Toluene	6.939	91	33518	0.628	ppbv	99
58) Ethyl Benzene	9.357	91	4195	0.060	ppbv #	87
59) m/p-Xylene	9.535	91	10176	0.185	ppbv #	100
60) o-Xylene	9.969	91	7954	0.144	ppbv	91
63) 1,1,2,2-Tetrachloroethane	9.953	83	1589	0.055	ppbv #	17
73) 1,3,5-Trimethylbenzene	11.209	105	3290	0.059	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	4927	0.080	ppbv #	70
80) Naphthalene,2-methyl-	14.461	142	2736	0.162	ppbv #	85

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

Instrument :
MSVOA_L
ClientSampleId :
SV1

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SV1

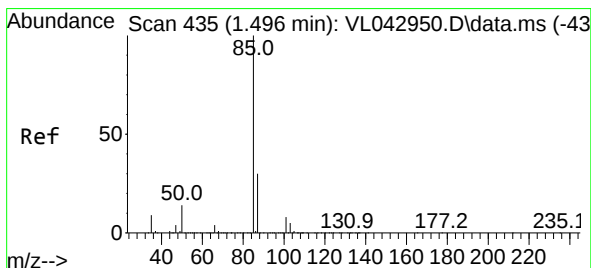
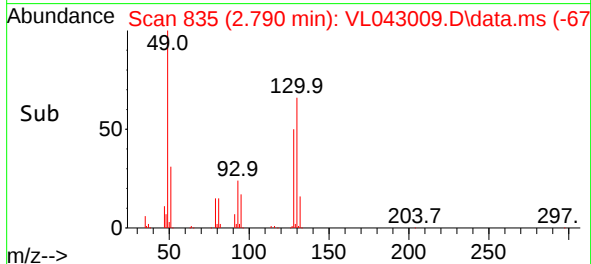
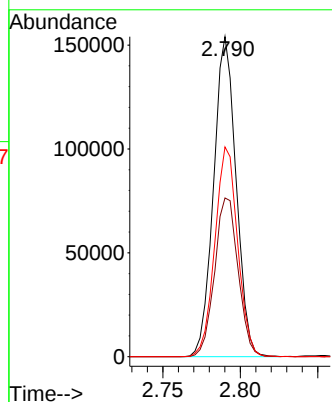
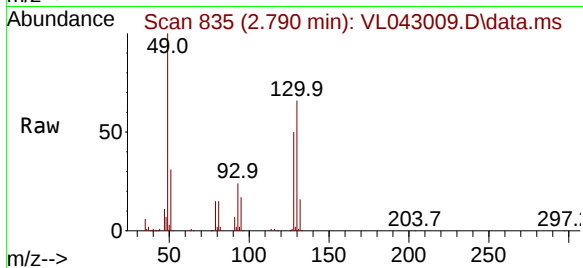




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

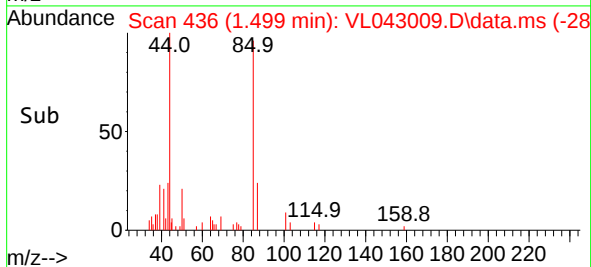
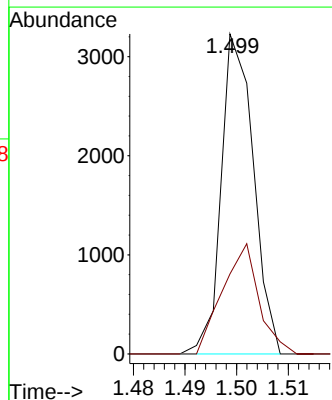
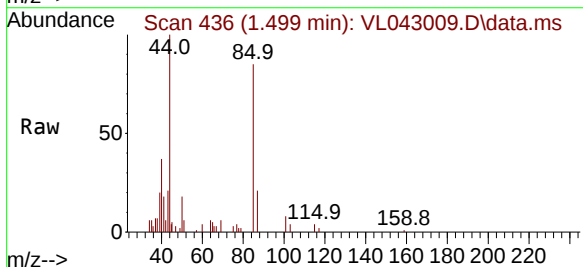
Instrument :
MSVOA_L
ClientSampleId :
SV1

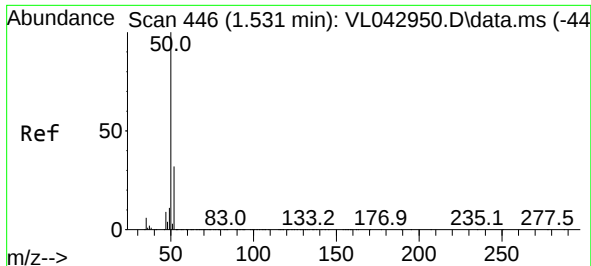
Tgt Ion: 49 Resp: 155479
Ion Ratio Lower Upper
49 100
128 51.8 22.9 68.8
130 66.4 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.067 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 85 Resp: 1400
Ion Ratio Lower Upper
85 100
87 25.0 24.3 36.5

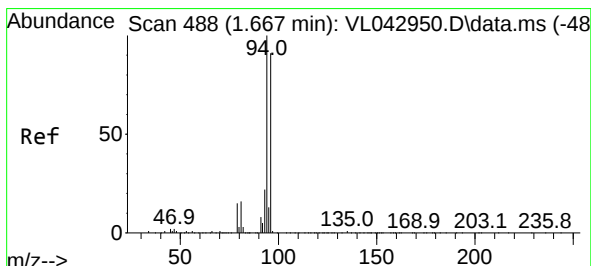
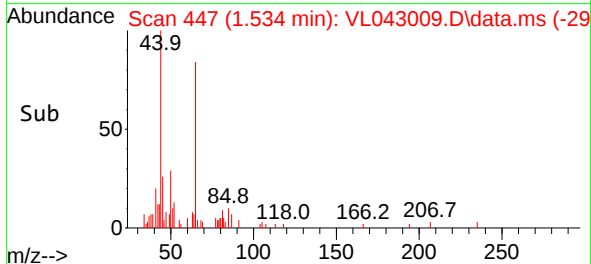
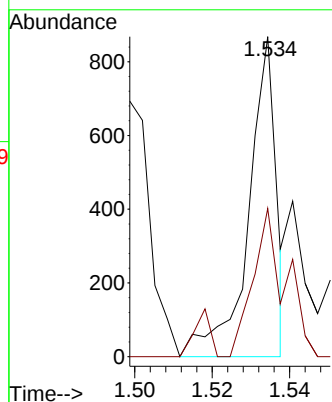
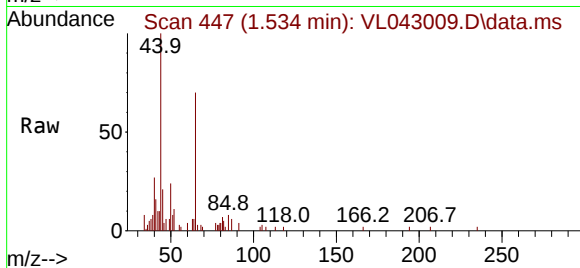




#4
Chloromethane
Concen: 0.046 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

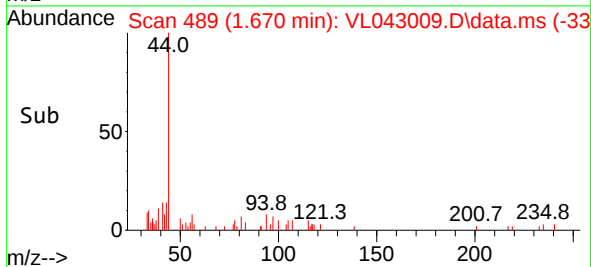
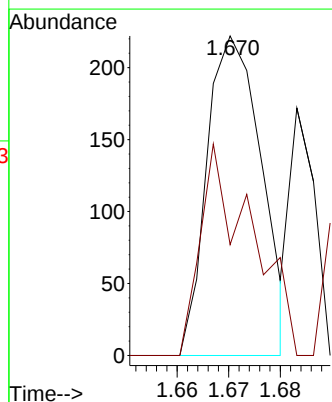
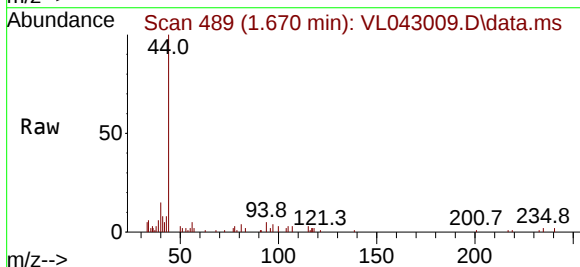
Instrument :
MSVOA_L
ClientSampleId :
SV1

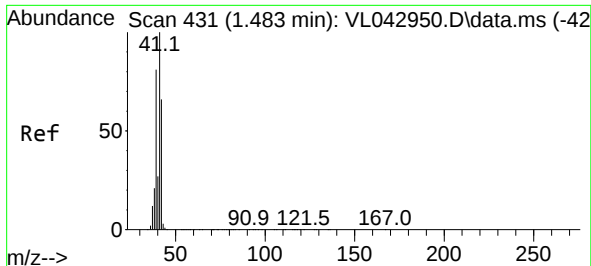
Tgt Ion: 50 Resp: 435
Ion Ratio Lower Upper
50 100
52 46.3 25.9 38.9#



#6
Bromomethane
Concen: 0.054 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 94 Resp: 163
Ion Ratio Lower Upper
94 100
96 34.7 72.6 108.8#





#9

Propene

Concen: 1.704 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.077 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

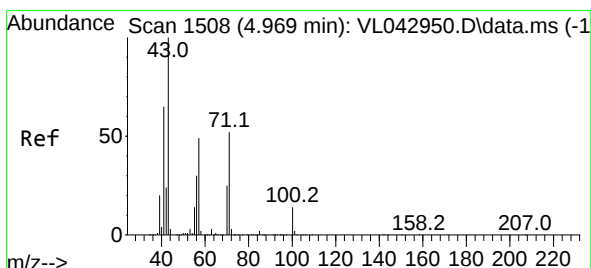
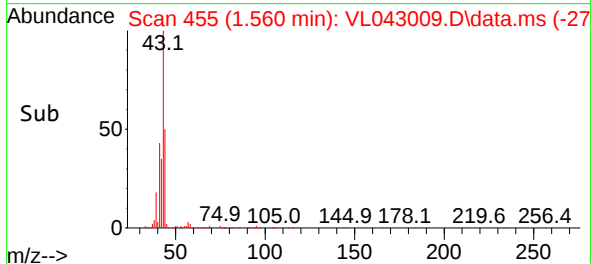
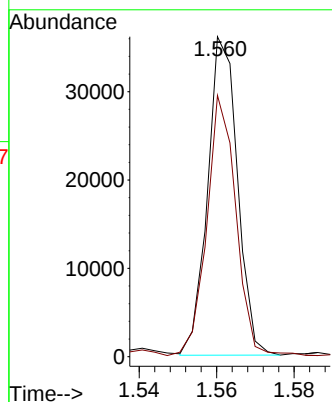
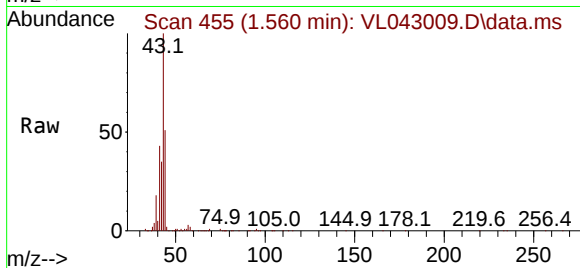
SV1

Tgt Ion: 41 Resp: 19320

Ion Ratio Lower Upper

41 100

42 82.9 57.4 86.2



#10

Heptane

Concen: 0.190 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.016 min

Lab File: VL043009.D

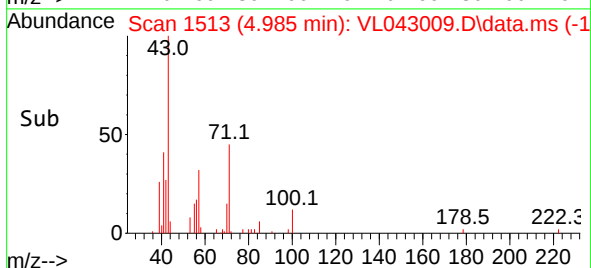
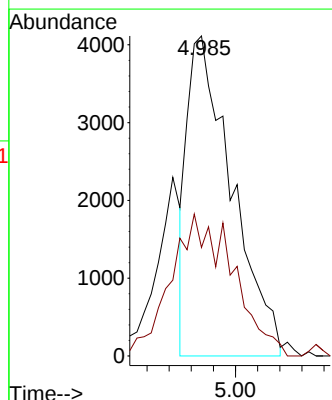
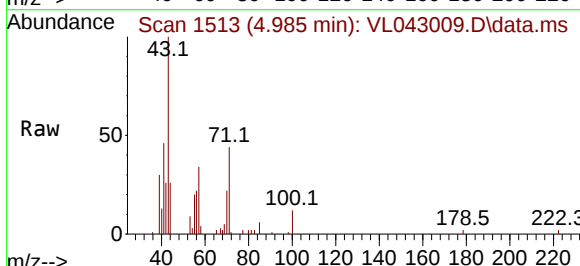
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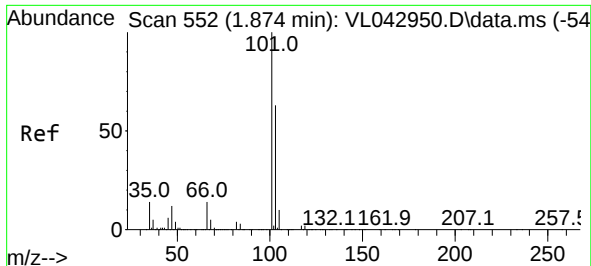
Tgt Ion: 43 Resp: 5761

Ion Ratio Lower Upper

43 100

57 63.7 38.6 57.8#

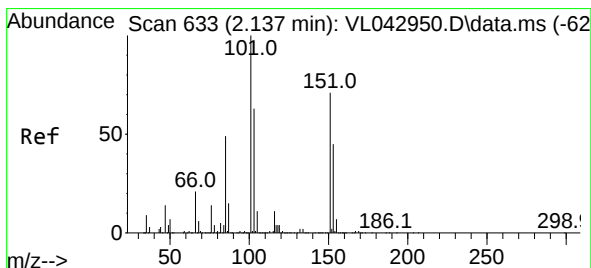
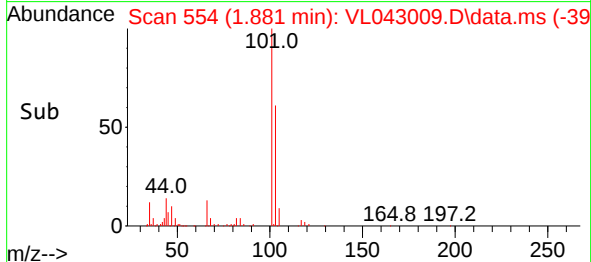
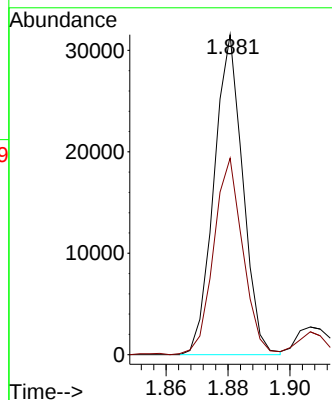
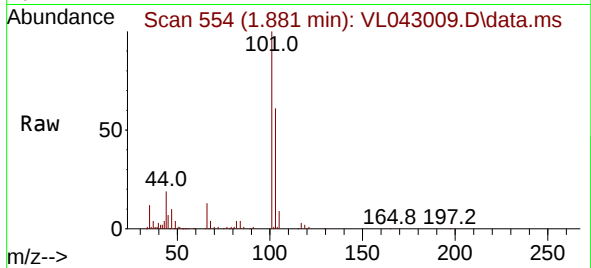




#11
 Trichlorofluoromethane
 Concen: 1.010 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

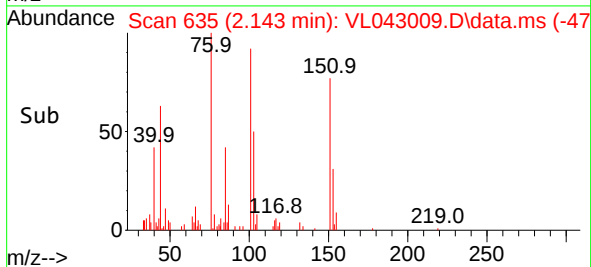
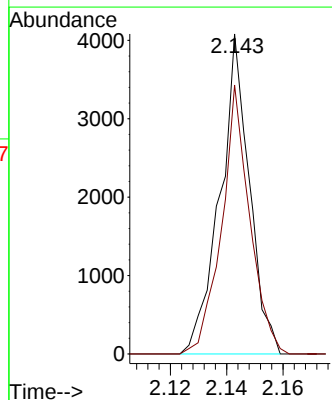
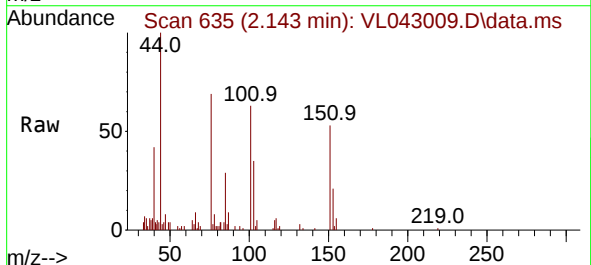
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

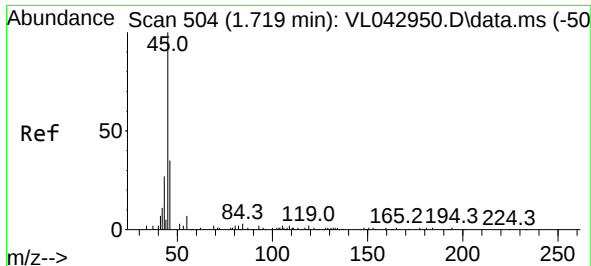
Tgt Ion:101 Resp: 20358
 Ion Ratio Lower Upper
 101 100
 103 61.1 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.181 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

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# 504

Delta R.T. 0.003 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

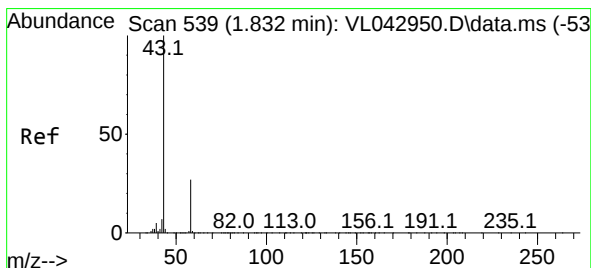
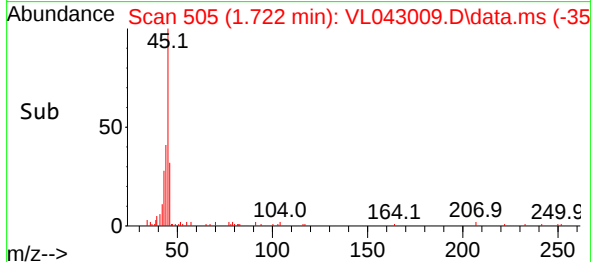
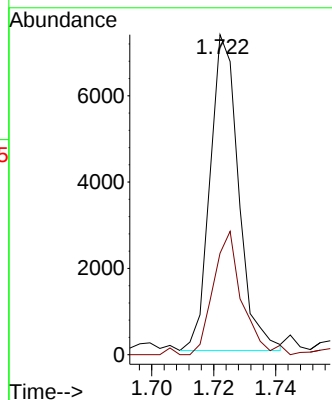
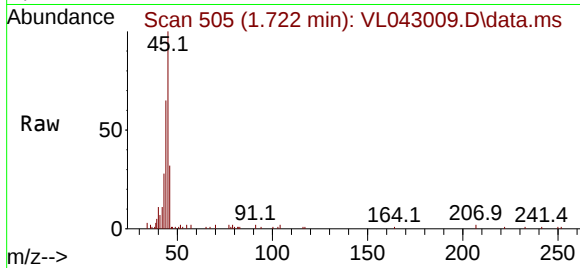
SV1

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

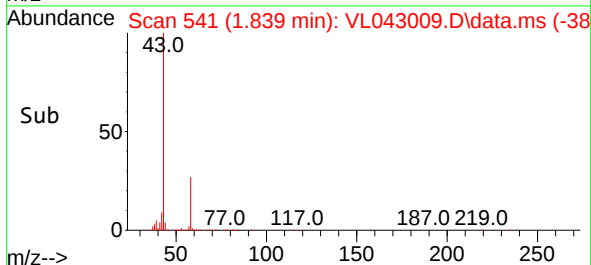
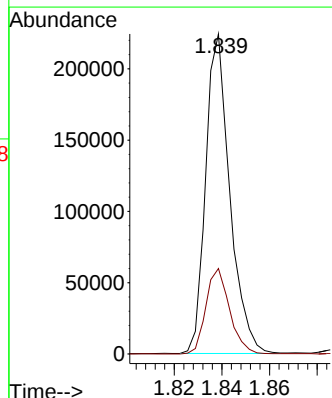
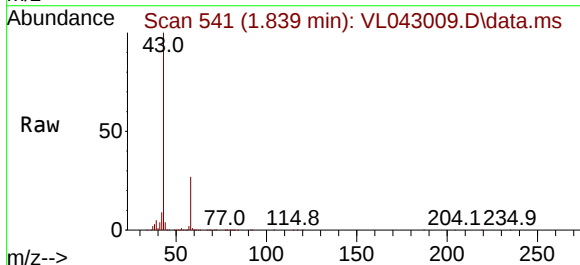
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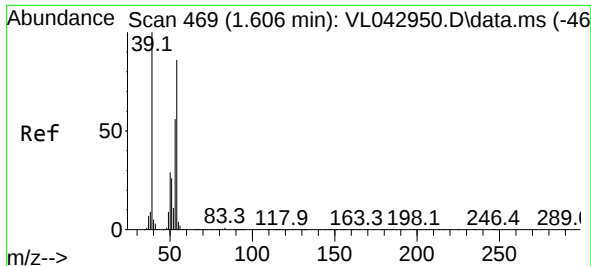
Tgt Ion: 43 Resp: 157803

Ion Ratio Lower Upper

43 100

58 26.5 22.3 33.5

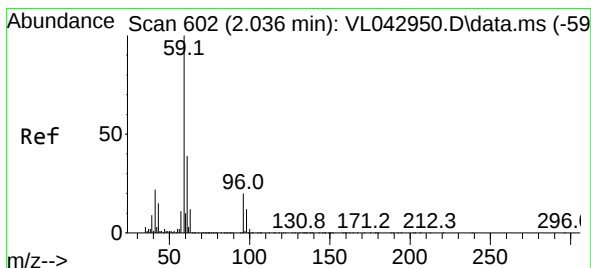
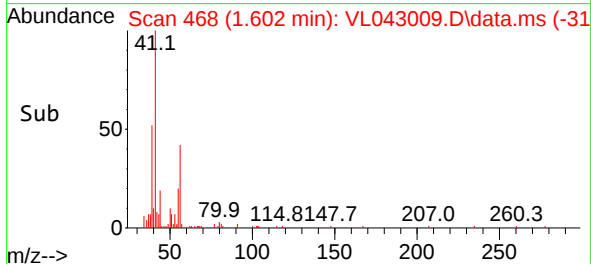
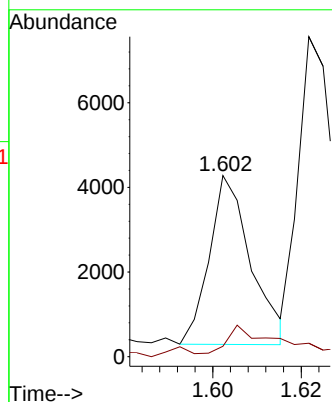
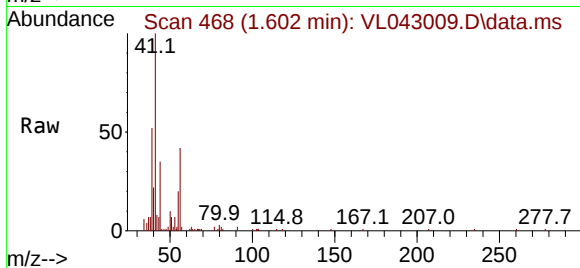




#16
1,3-Butadiene
Concen: 0.272 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

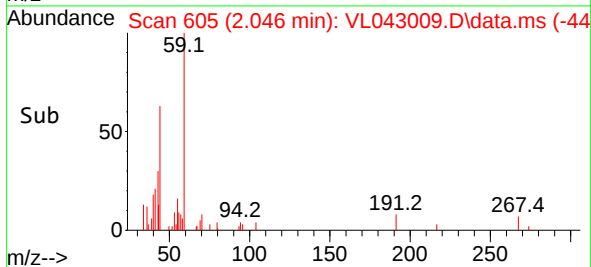
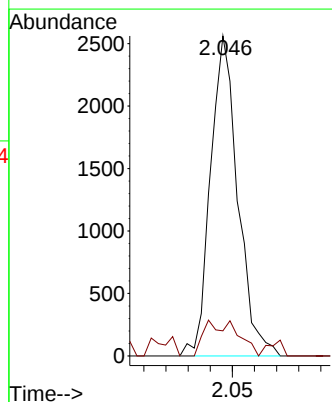
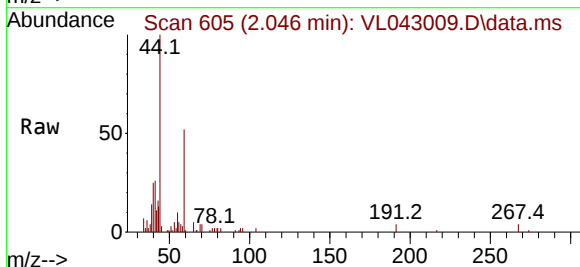
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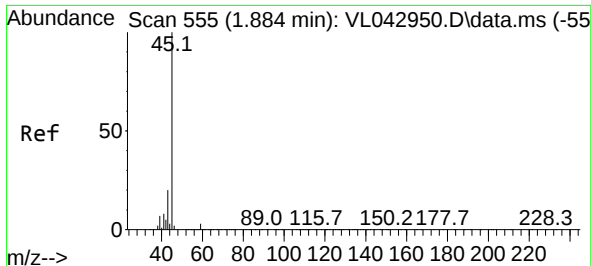
Tgt Ion: 39 Resp: 2597
Ion Ratio Lower Upper
39 100
54 37.0 60.8 91.2#



#17
tert-Butyl alcohol
Concen: 0.099 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 59 Resp: 2203
Ion Ratio Lower Upper
59 100
57 24.5 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.661 ppbv

RT: 1.907 min Scan# 5

Delta R.T. 0.022 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

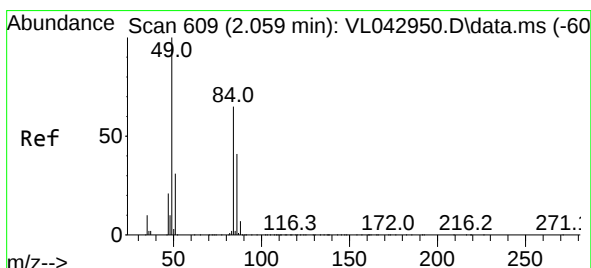
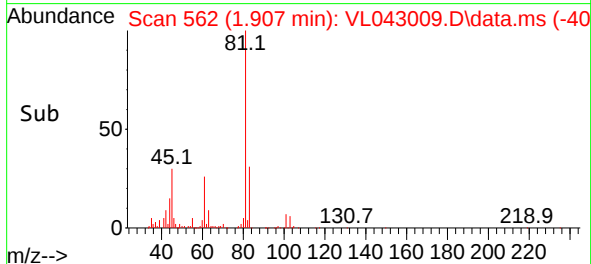
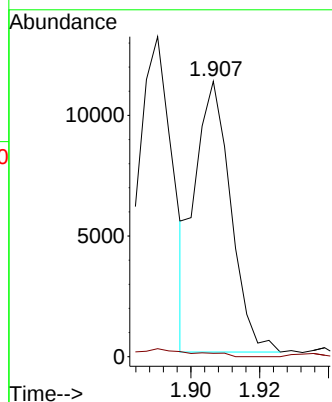
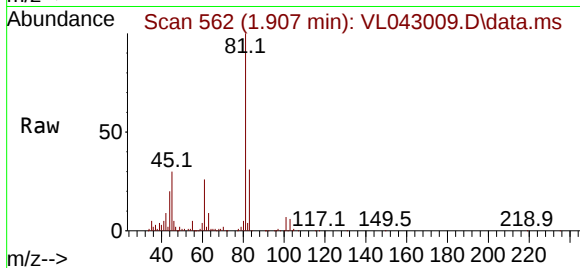
SV1

Tgt Ion: 45 Resp: 8044

Ion Ratio Lower Upper

45 100

58 0.0 31.0 46.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Tgt Ion: 84 Resp: 2646

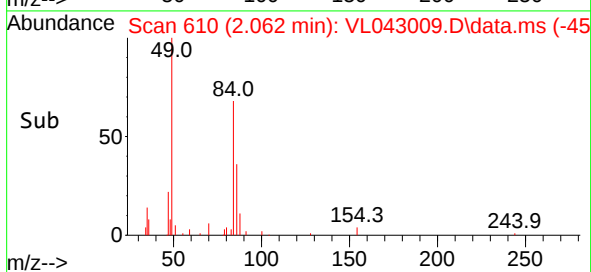
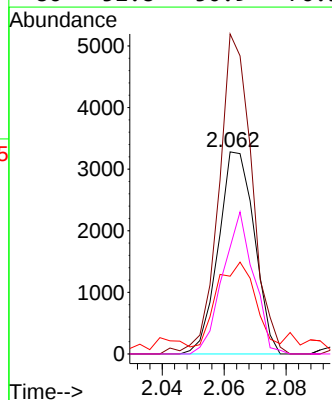
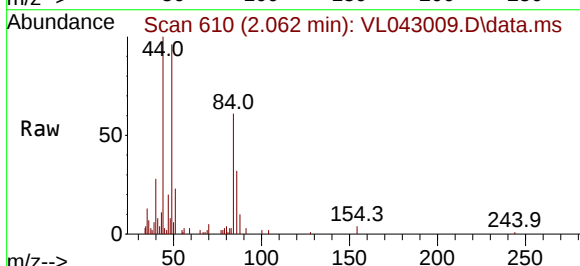
Ion Ratio Lower Upper

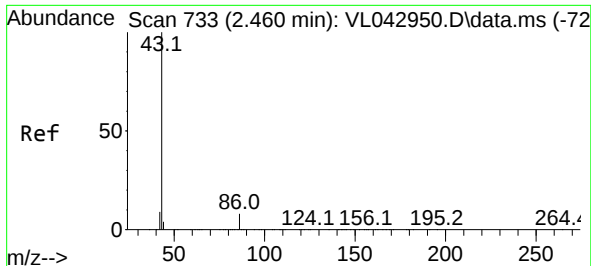
84 100

49 156.7 124.1 186.1

51 33.4 39.8 59.8#

86 52.8 50.9 76.3

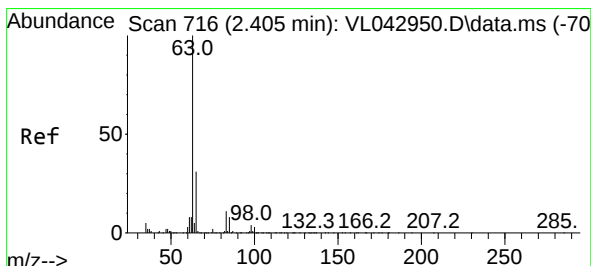
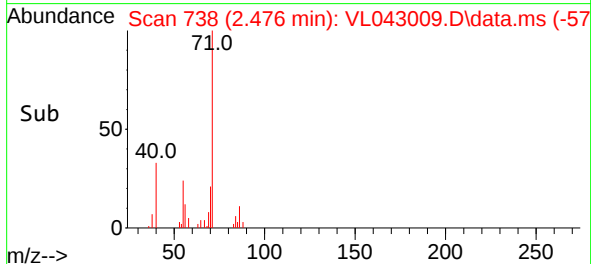
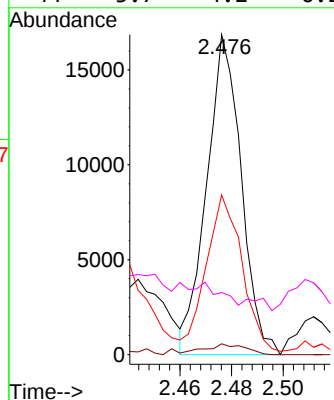
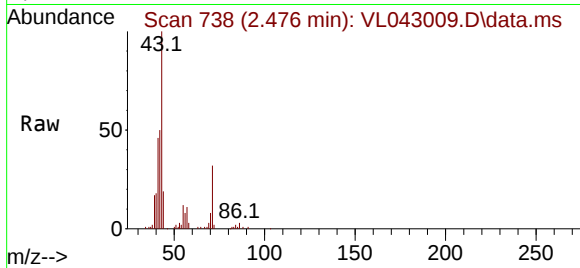




#23
 Vinyl Acetate
 Concen: 0.541 ppbv
 RT: 2.476 min Scan# 718
 Delta R.T. 0.016 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

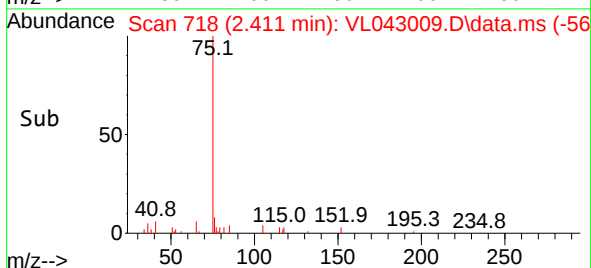
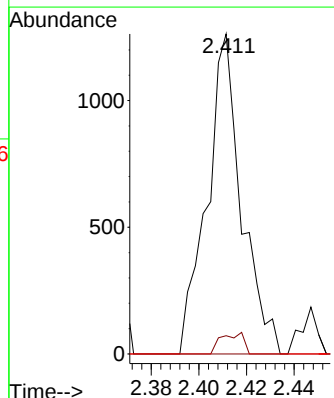
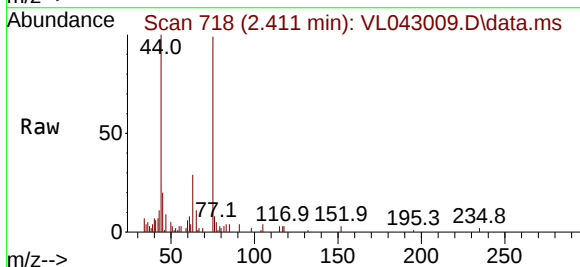
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

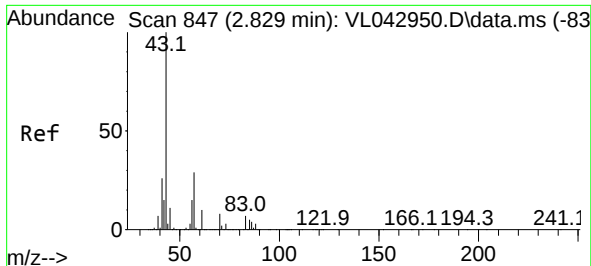
Tgt Ion:	43	Resp:	15649
Ion	Ratio	Lower	Upper
43	100		
86	3.4	6.2	9.2#
42	48.8	7.4	11.0#
44	3.7	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 0.075 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.006 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

Tgt Ion:	63	Resp:	1268
Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.2	6.6
100	0.0	1.4	4.0#





#25

Ethyl Acetate

Concen: 0.488 ppbv

RT: 2.832 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 24960

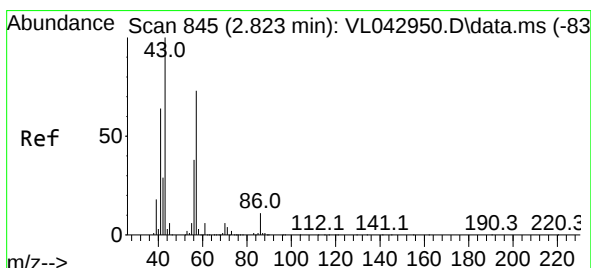
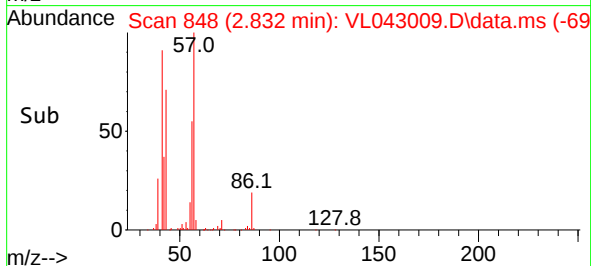
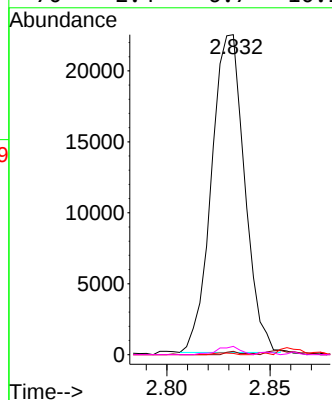
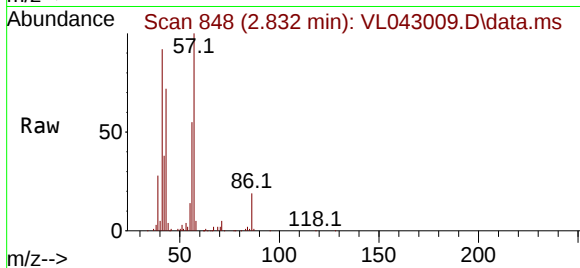
Ion Ratio Lower Upper

43 100

45 1.7 7.7 11.5#

61 2.1 7.1 10.7#

70 2.4 6.7 10.1#



#26

Hexane

Concen: 1.490 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Tgt Ion: 57 Resp: 34751

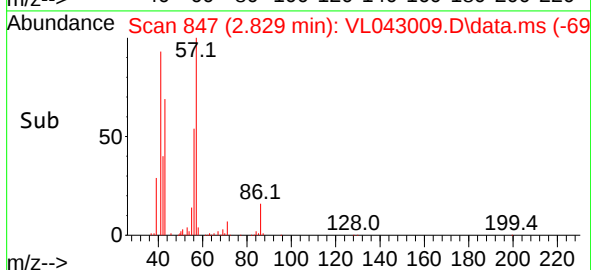
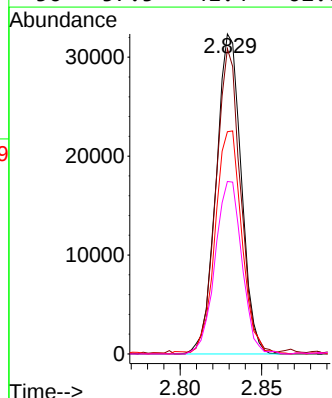
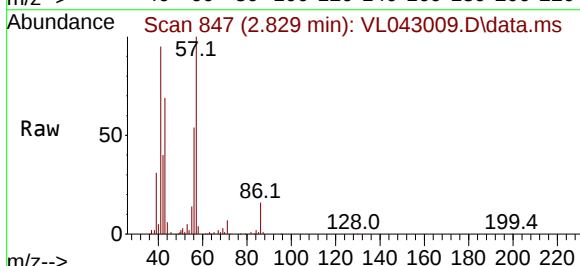
Ion Ratio Lower Upper

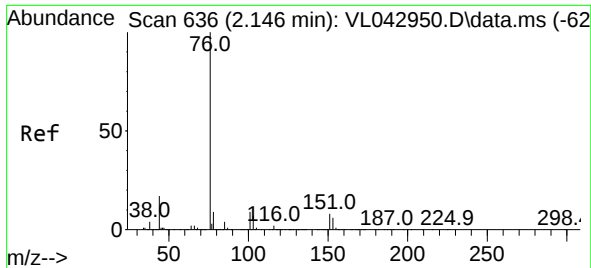
57 100

41 95.5 71.7 107.5

43 73.9 180.8 271.2#

56 57.5 41.4 62.0

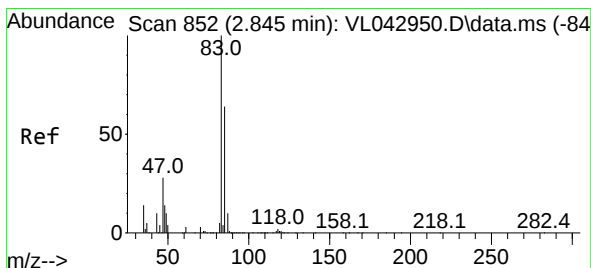
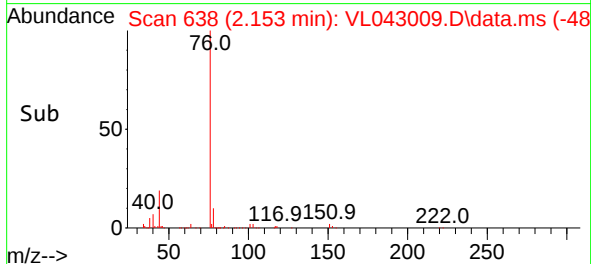
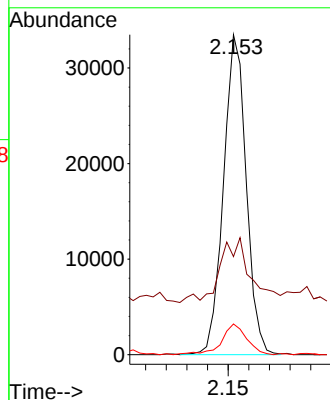
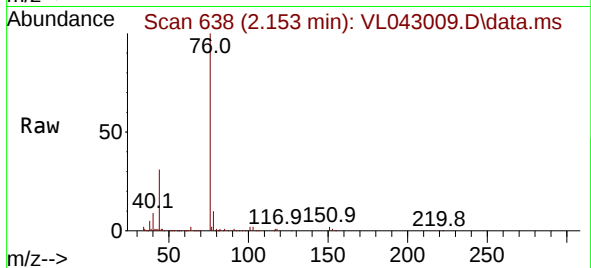




#27
Carbon Disulfide
Concen: 1.224 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

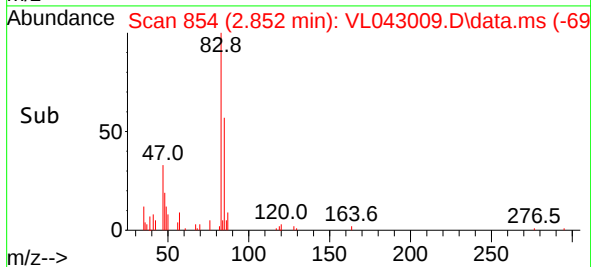
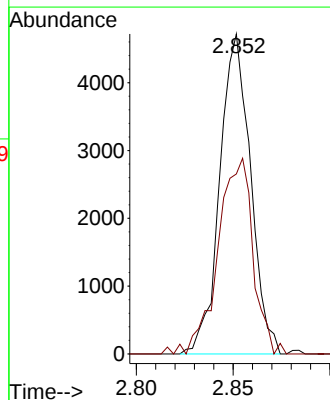
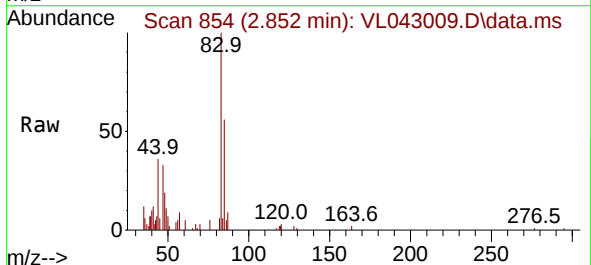
Instrument :
MSVOA_L
ClientSampleId :
SV1

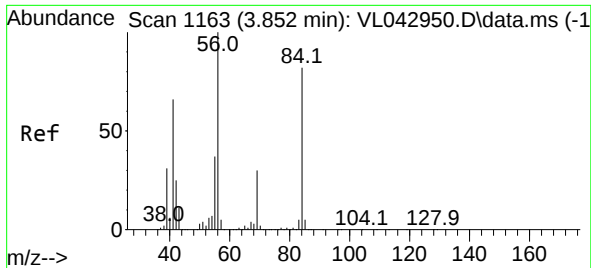
Tgt Ion: 76 Resp: 25618
Ion Ratio Lower Upper
76 100
44 78.5 15.6 23.4#
78 11.0 8.9 13.3



#29
Chloroform
Concen: 0.171 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 83 Resp: 5207
Ion Ratio Lower Upper
83 100
85 53.2 51.2 76.8

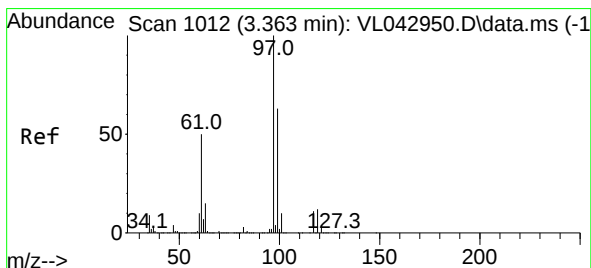
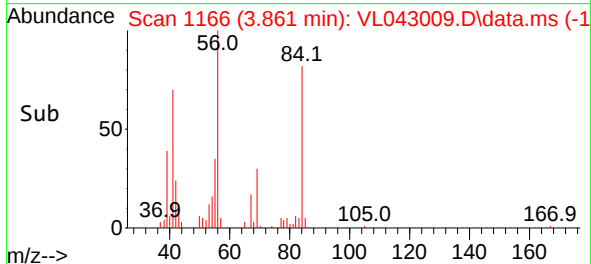
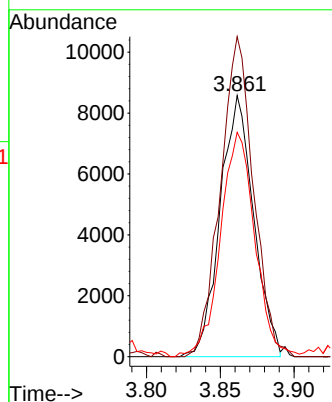
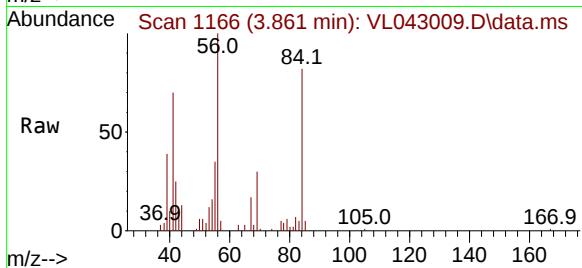




#30
Cyclohexane
Concen: 0.693 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

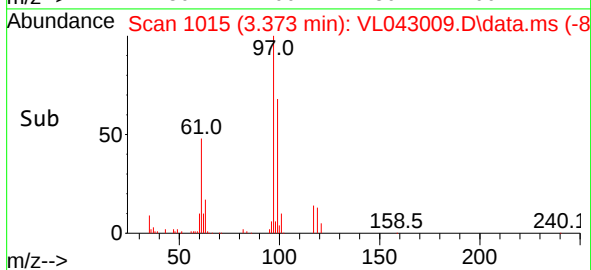
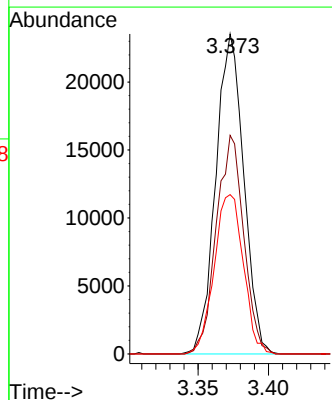
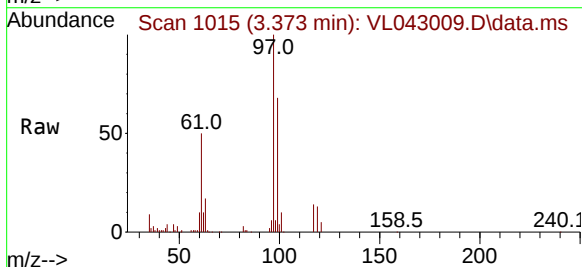
Instrument :
MSVOA_L
ClientSampleId :
SV1

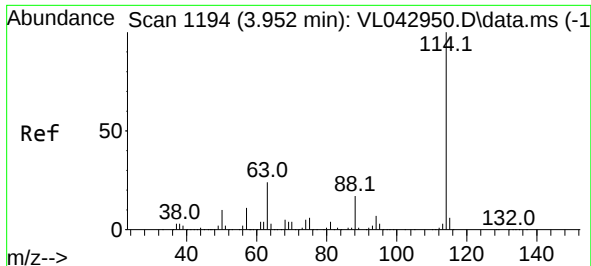
Tgt Ion: 84 Resp: 13520
Ion Ratio Lower Upper
84 100
56 121.1 102.2 153.4
41 88.1 65.6 98.4



#32
1,1,1-Trichloroethane
Concen: 0.989 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

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

Instrument :

MSVOA_L

ClientSampleId :

SV1

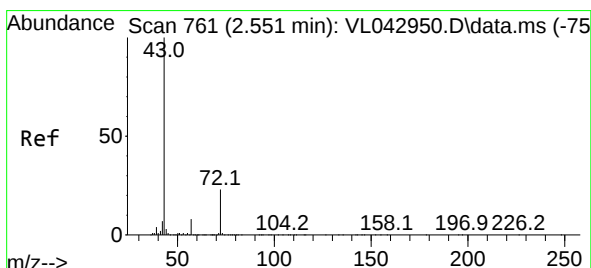
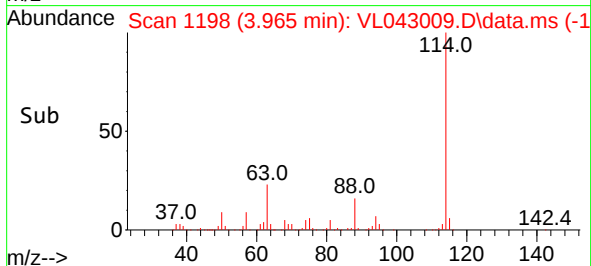
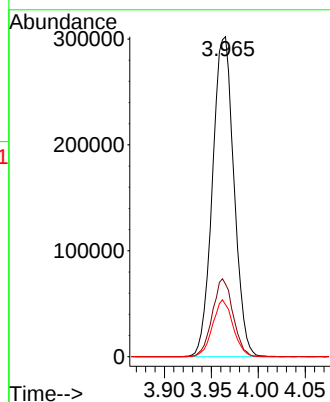
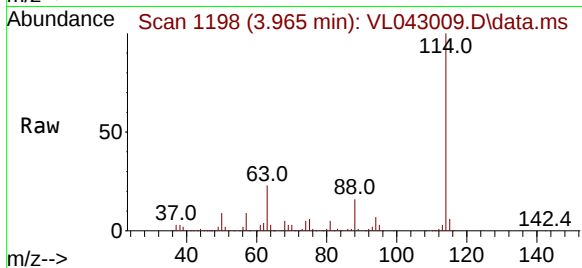
Tgt Ion:114 Resp: 479985

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

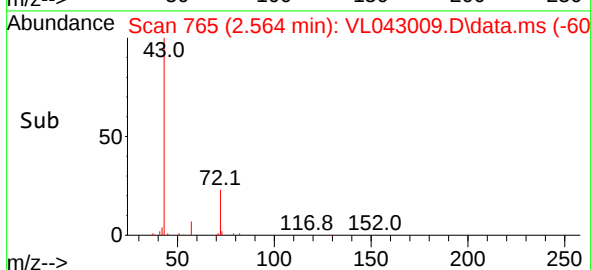
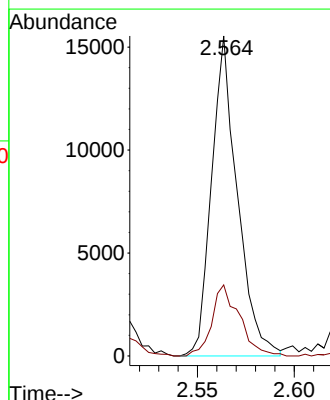
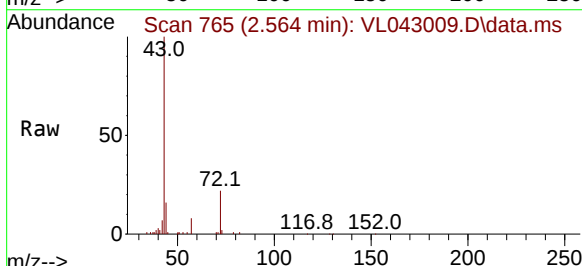
Acq: 24 Sep 2025 14:40

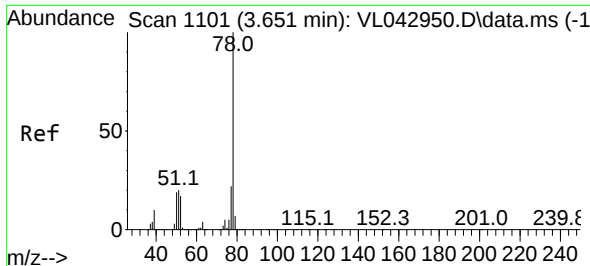
Tgt Ion: 43 Resp: 14405

Ion Ratio Lower Upper

43 100

72 24.1 17.7 26.5

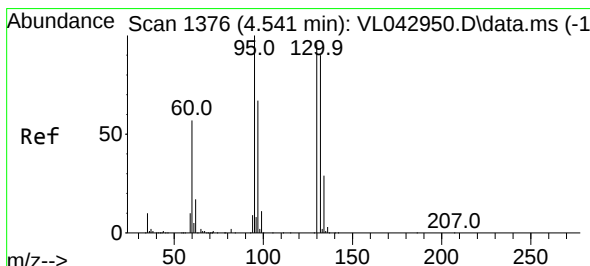
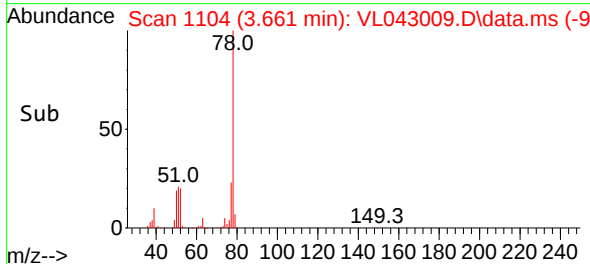
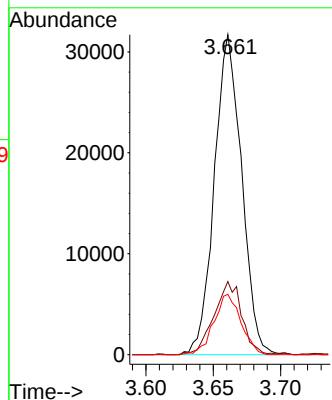
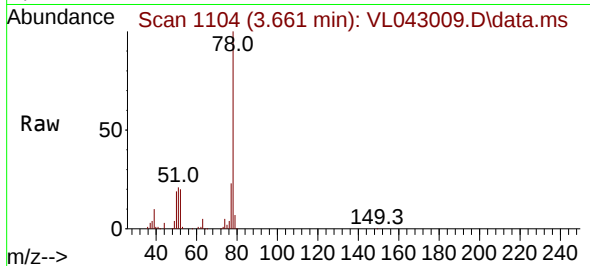




#36
Benzene
Concen: 0.989 ppbv
RT: 3.661 min Scan# 1101
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

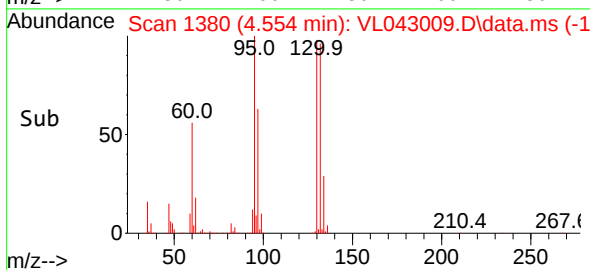
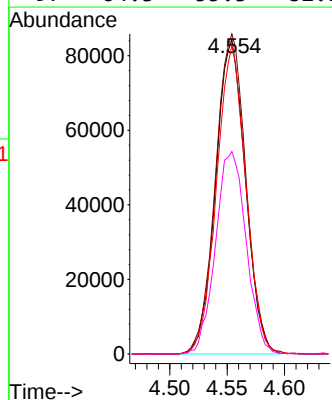
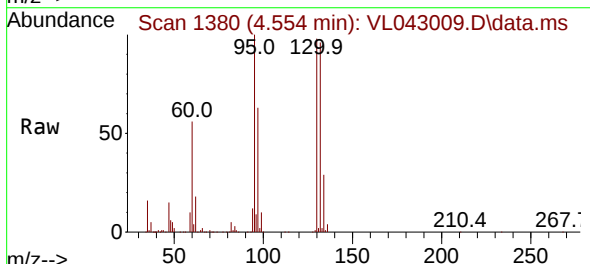
Instrument :
MSVOA_L
ClientSampleId :
SV1

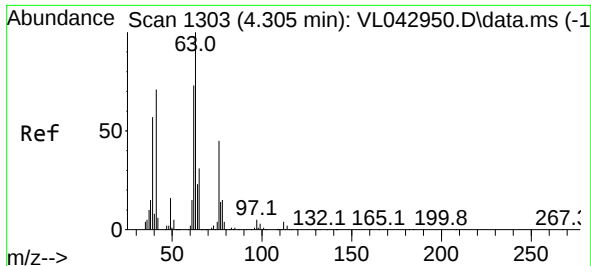
Tgt Ion: 78	Resp: 44595
Ion Ratio	Lower Upper
78 100	
77 22.9	17.8 26.6
50 18.9	15.0 22.4



#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





#39

1,2-Dichloropropane

Concen: 6.854 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

SV1

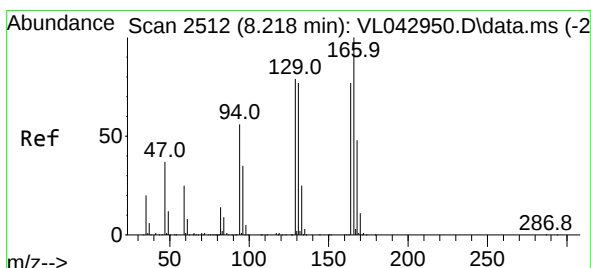
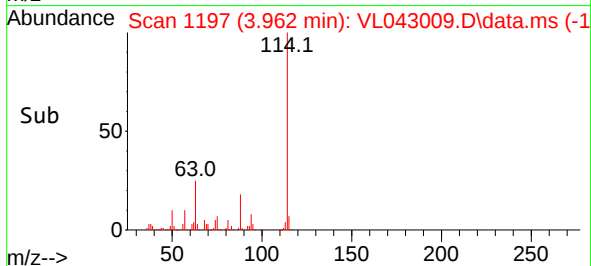
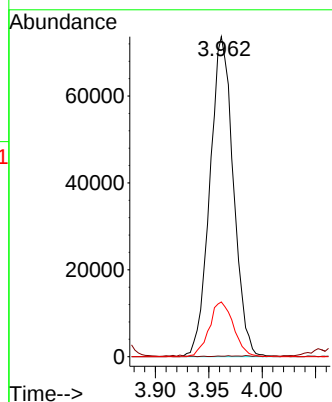
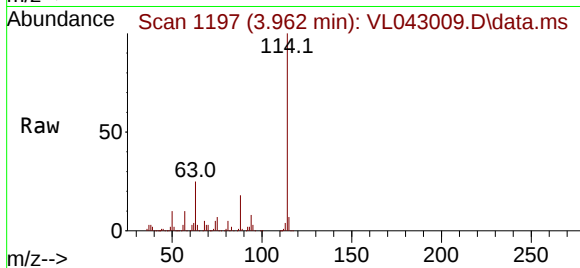
Tgt Ion: 63 Resp: 112779

Ion Ratio Lower Upper

63 100

41 0.0 57.5 86.3#

62 17.1 58.5 87.7#



#52

Tetrachloroethene

Concen: 6.643 ppbv

RT: 8.231 min Scan# 2516

Delta R.T. 0.013 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Tgt Ion: 164 Resp: 115847

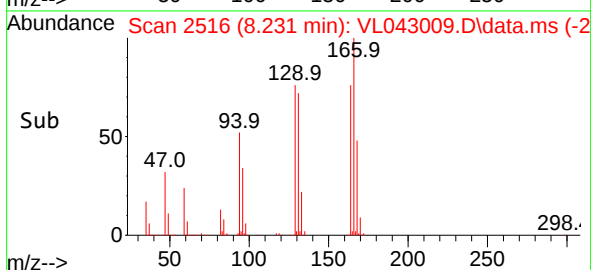
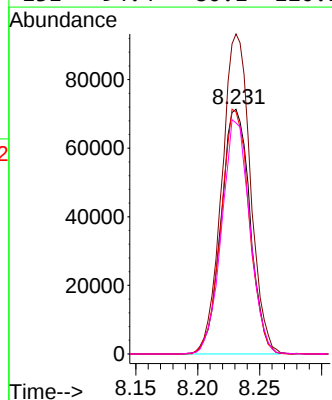
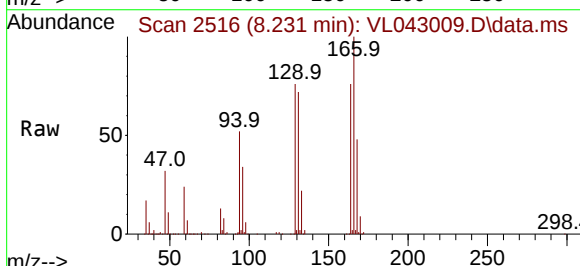
Ion Ratio Lower Upper

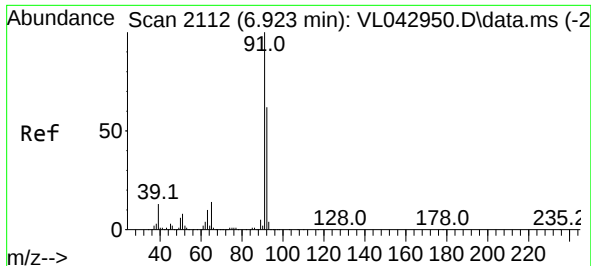
164 100

166 130.8 103.5 155.3

129 98.8 82.2 123.4

131 94.4 80.1 120.1

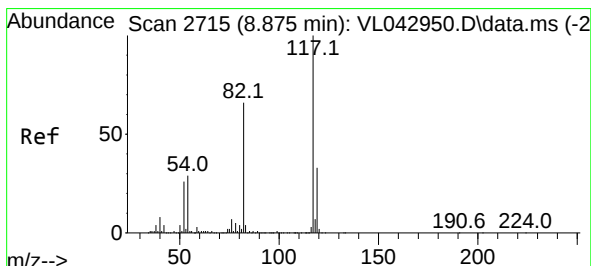
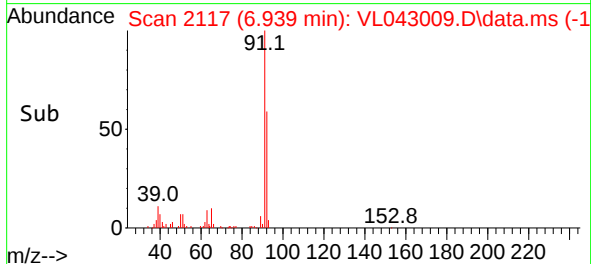
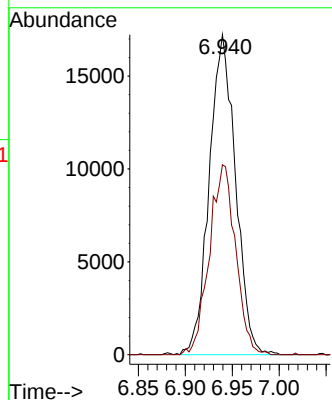
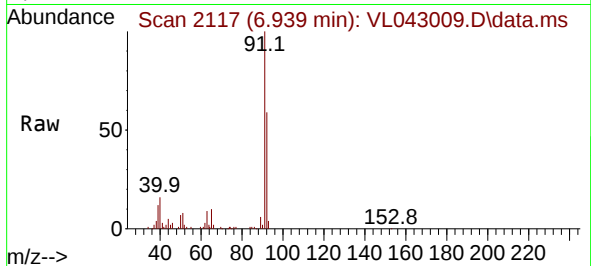




#53
Toluene
Concen: 0.628 ppbv
RT: 6.939 min Scan# 2112
Delta R.T. 0.016 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

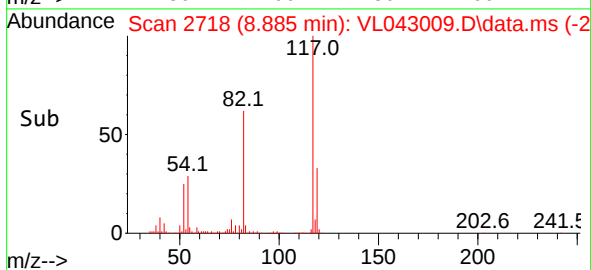
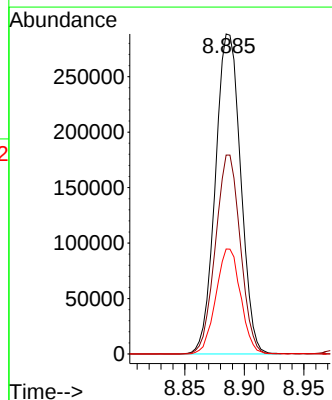
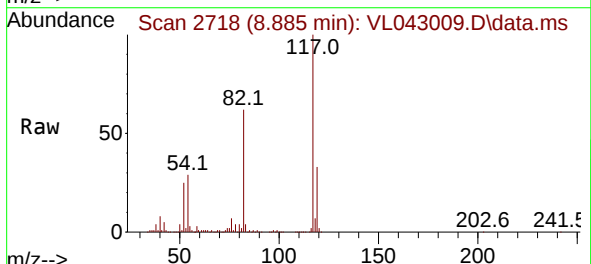
Instrument :
MSVOA_L
ClientSampleId :
SV1

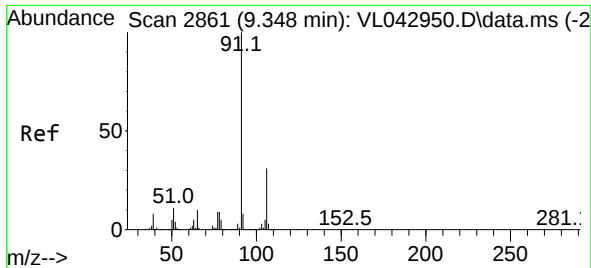
Tgt Ion: 91 Resp: 33518
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

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

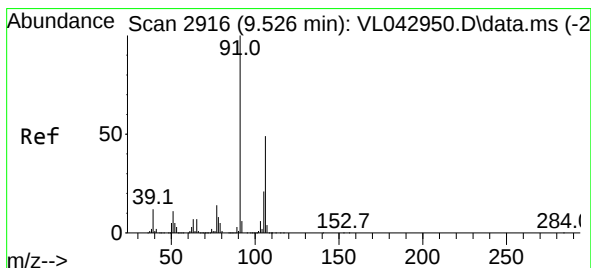
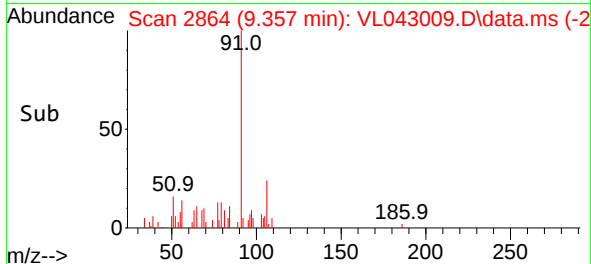
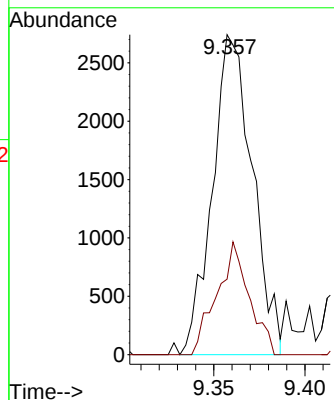
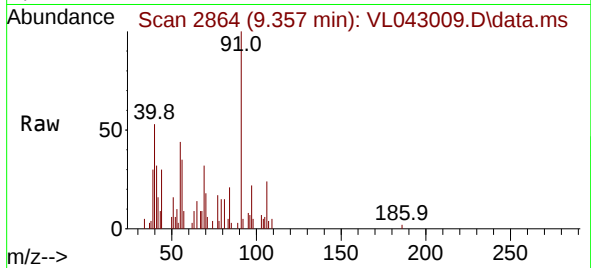




#58
Ethyl Benzene
Concen: 0.060 ppbv
RT: 9.357 min Scan# 2195
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

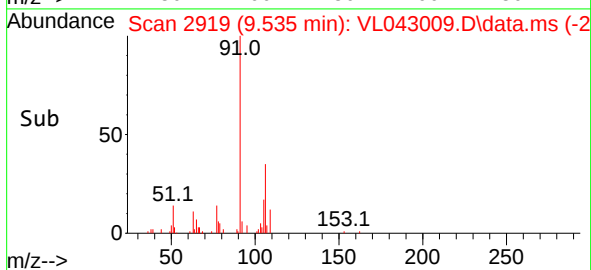
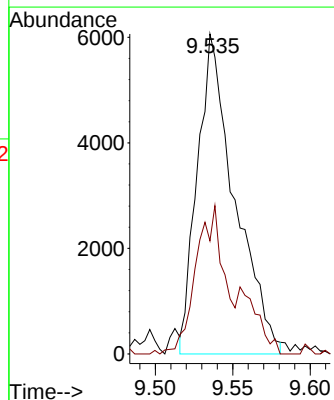
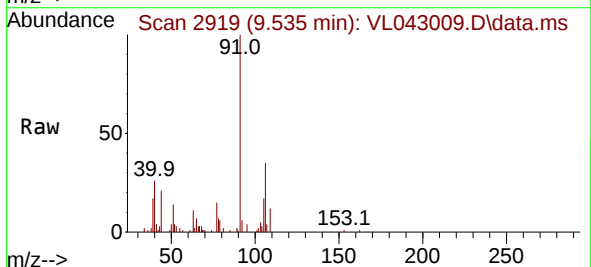
Instrument :
MSVOA_L
ClientSampleId :
SV1

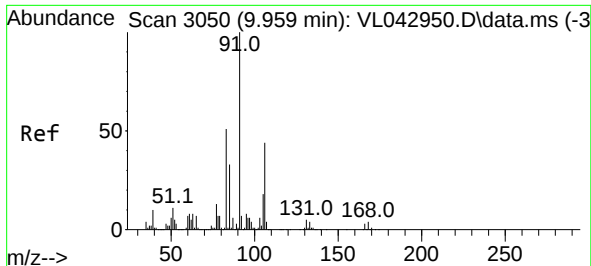
Tgt Ion: 91 Resp: 4195
Ion Ratio Lower Upper
91 100
106 23.6 24.6 37.0#



#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#

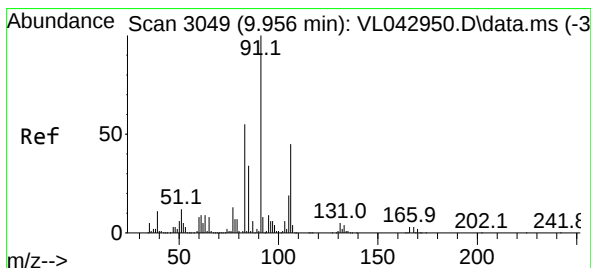
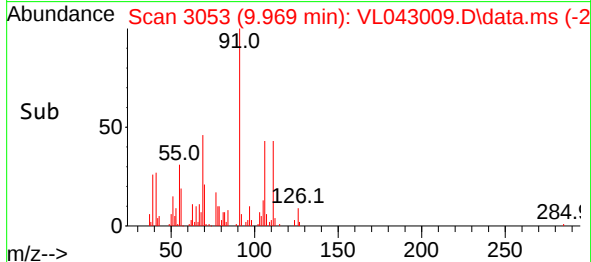
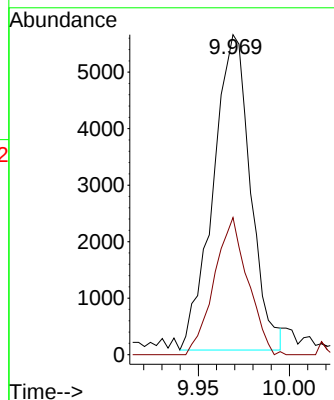
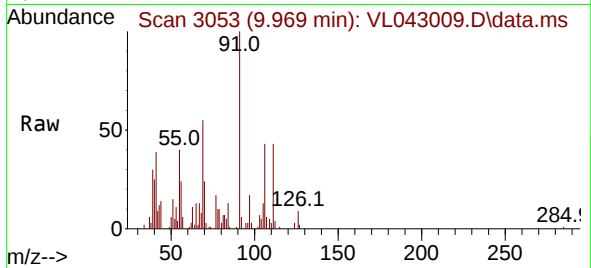




#60
o-Xylene
Concen: 0.144 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

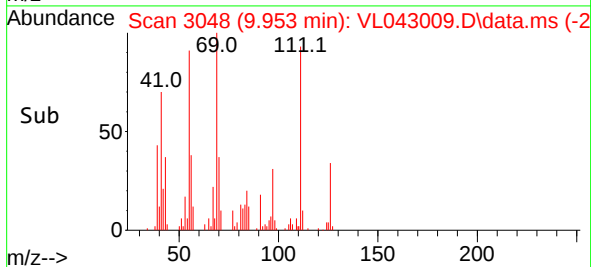
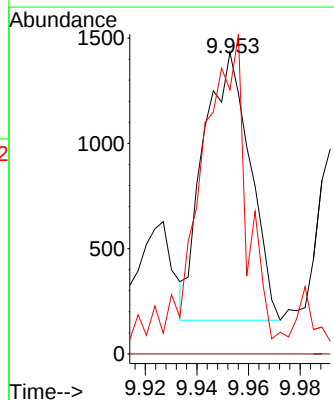
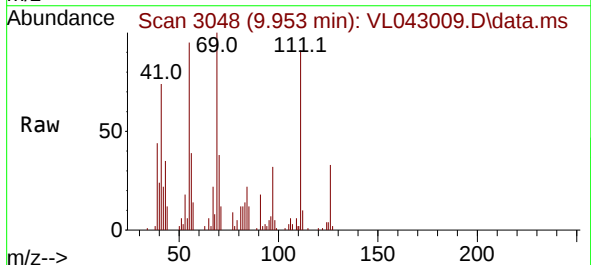
Instrument :
MSVOA_L
ClientSampleId :
SV1

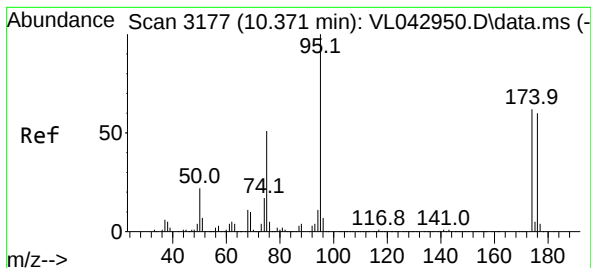
Tgt Ion: 91 Resp: 7954
Ion Ratio Lower Upper
91 100
106 39.1 22.4 67.0



#63
1,1,2,2-Tetrachloroethane
Concen: 0.055 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043009.D
Acq: 24 Sep 2025 14:40

Tgt Ion: 83 Resp: 1589
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 136.2 32.2 96.6#

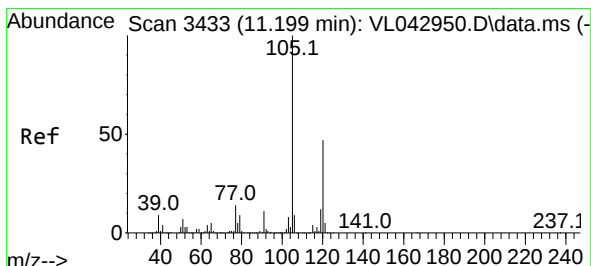
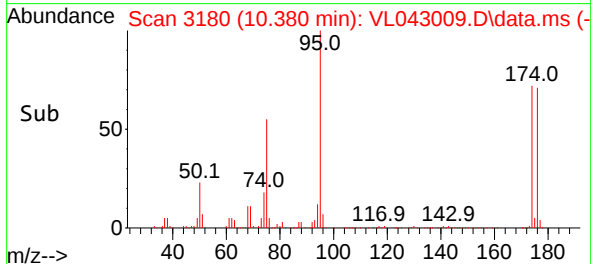
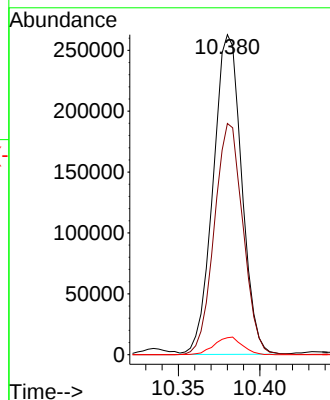
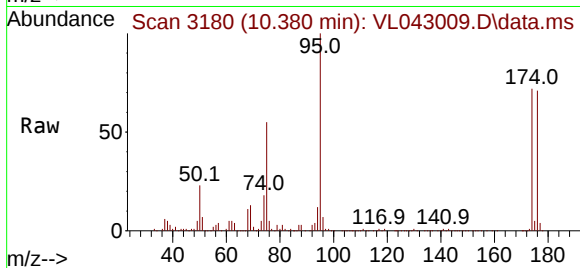




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.036 ppbv
 RT: 10.380 min Scan# 3177
 Delta R.T. 0.010 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

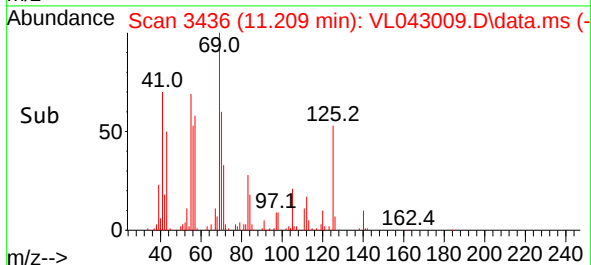
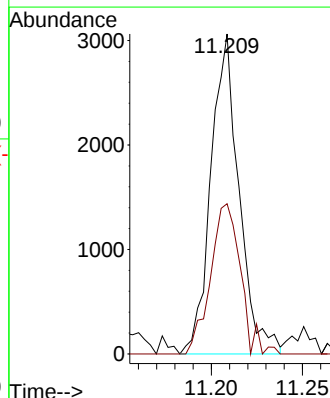
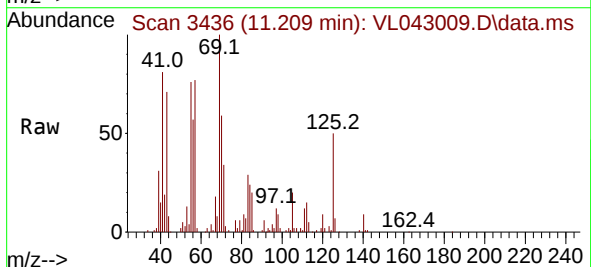
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

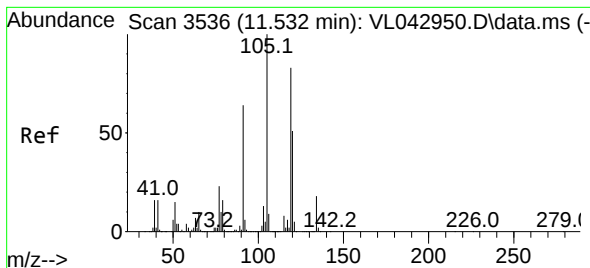
Tgt Ion: 95 Resp: 319021
 Ion Ratio Lower Upper
 95 100
 174 72.9 51.4 77.2
 175 5.4 4.0 6.0



#73
 1,3,5-Trimethylbenzene
 Concen: 0.059 ppbv
 RT: 11.209 min Scan# 3436
 Delta R.T. 0.010 min
 Lab File: VL043009.D
 Acq: 24 Sep 2025 14:40

Tgt Ion: 105 Resp: 3290
 Ion Ratio Lower Upper
 105 100
 120 46.9 38.0 57.0





#74

1,2,4-Trimethylbenzene

Concen: 0.080 ppbv

RT: 11.539 min Scan# 3536

Delta R.T. 0.006 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 4927

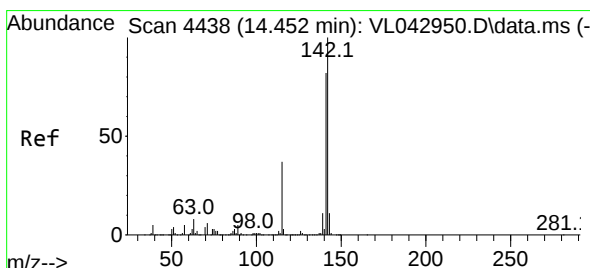
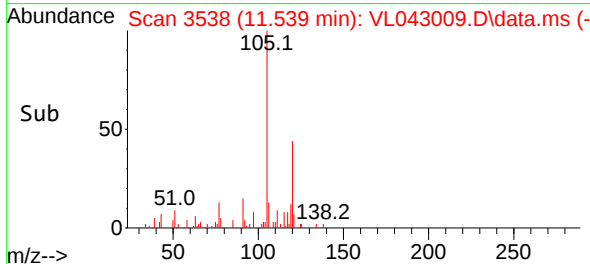
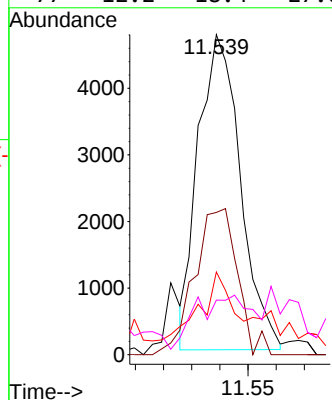
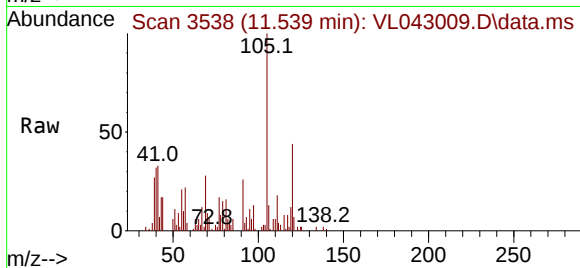
Ion Ratio Lower Upper

105 100

120 52.8 40.9 61.3

91 20.6 51.2 76.8#

77 12.2 18.4 27.6#



#80

Naphthalene,2-methyl-

Concen: 0.162 ppbv

RT: 14.461 min Scan# 4441

Delta R.T. 0.010 min

Lab File: VL043009.D

Acq: 24 Sep 2025 14:40

Tgt Ion:142 Resp: 2736

Ion Ratio Lower Upper

142 100

141 94.9 65.1 97.7

115 45.0 28.9 43.3#

