

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042136.D
 Acq On : 10 Mar 2025 21:07
 Operator : SY/MD
 Sample : Q1533-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Mar 11 01:31:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

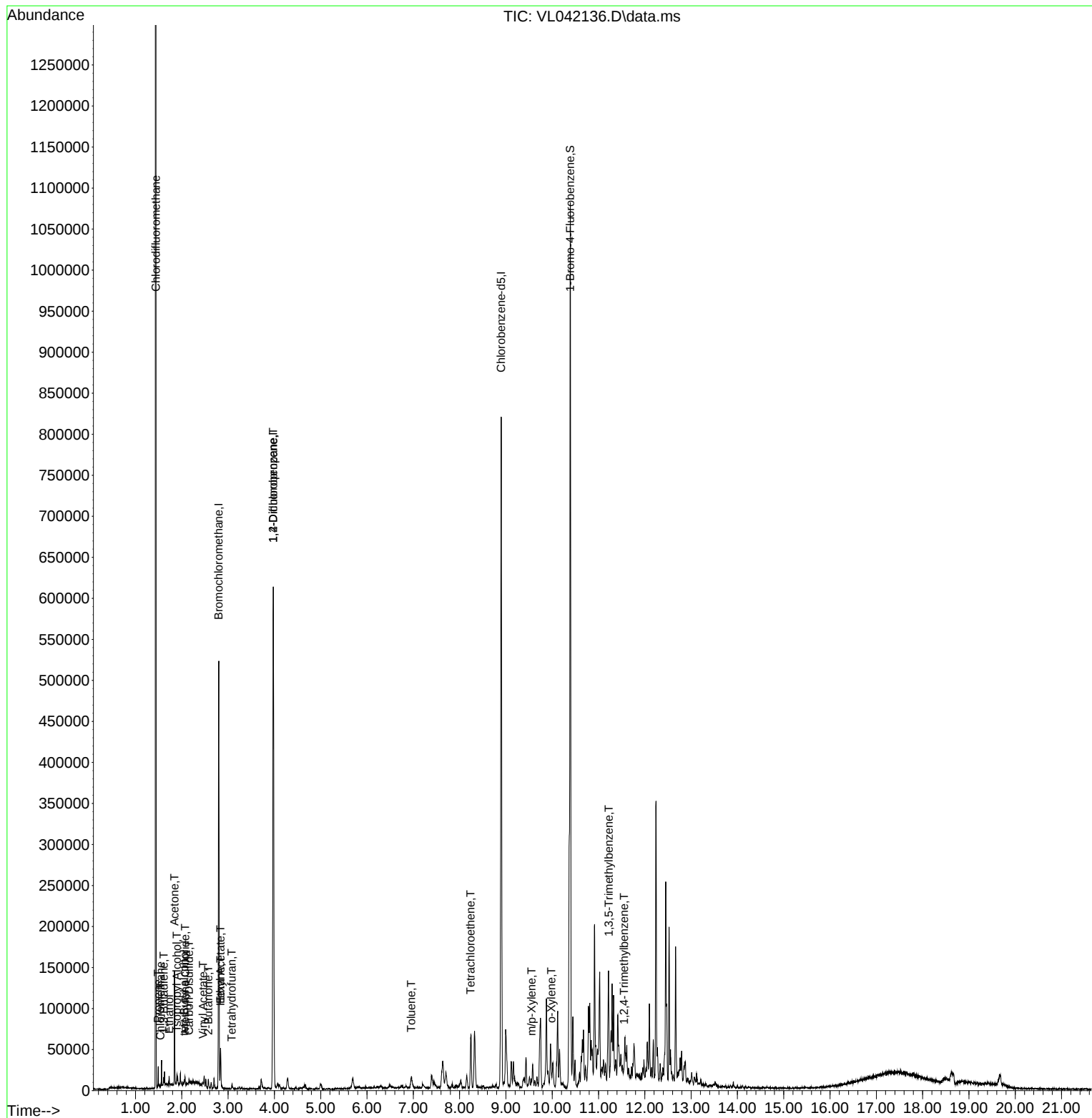
Internal Standards						
1) Bromochloromethane	2.797	49	154320	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	359394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	323564	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	271797	10.919	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 109.200%	
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.441	51	1239	0.055	ppbv #	84
4) Chloromethane	1.538	50	189	0.032	ppbv #	77
9) Propene	1.489	41	3247	0.355	ppbv	92
13) Ethanol	1.729	45	3128	5.393	ppbv	83
15) Acetone	1.842	43	60932	4.471	ppbv	98
16) 1,3-Butadiene	1.609	39	1029	0.162	ppbv #	43
17) tert-Butyl alcohol	2.052	59	1327	0.078	ppbv #	66
19) Isopropyl Alcohol	1.894	45	4776	0.610	ppbv #	1
20) Methylene Chloride	2.072	84	1415	0.274	ppbv #	57
23) Vinyl Acetate	2.460	43	654	0.068	ppbv #	29
25) Ethyl Acetate	2.836	43	7943	0.146	ppbv #	77
26) Hexane	2.839	57	9270	0.420	ppbv #	31
27) Carbon Disulfide	2.159	76	2409	0.161	ppbv #	1
34) 2-Butanone	2.573	43	6877	0.246	ppbv	98
39) 1,2-Dichloropropane	3.975	63	92120	6.451	ppbv #	23
41) Tetrahydrofuran	3.078	42	764	0.046	ppbv #	61
52) Tetrachloroethene	8.238	164	4953	0.385	ppbv	92
53) Toluene	6.956	91	2411	0.057	ppbv #	1
59) m/p-Xylene	9.552	91	2516	0.053	ppbv #	100
60) o-Xylene	9.979	91	4815	0.101	ppbv	93
73) 1,3,5-Trimethylbenzene	11.219	105	4188	0.083	ppbv	86
74) 1,2,4-Trimethylbenzene	11.549	105	4185	0.074	ppbv #	58

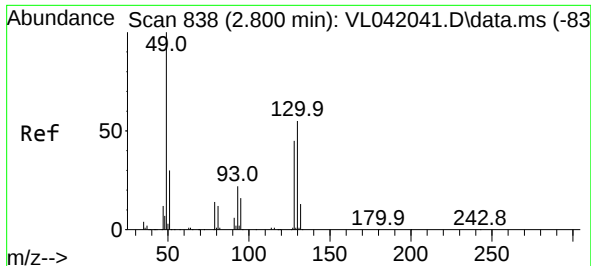
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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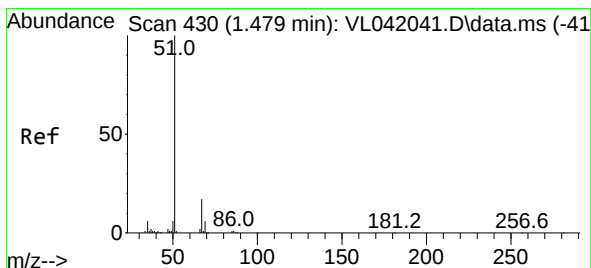
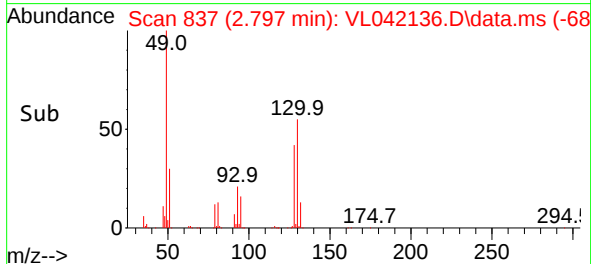
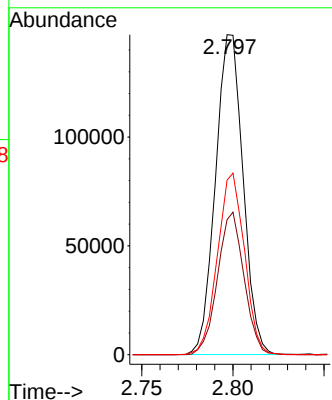
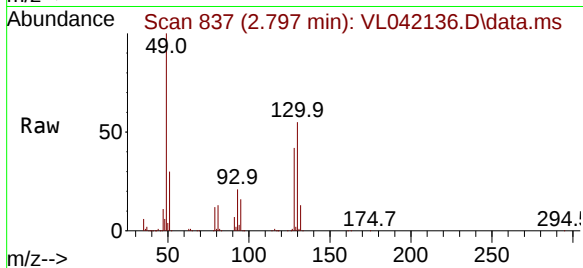




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

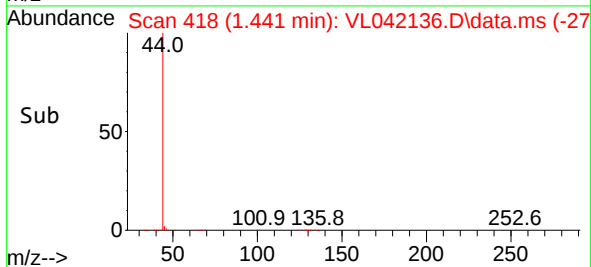
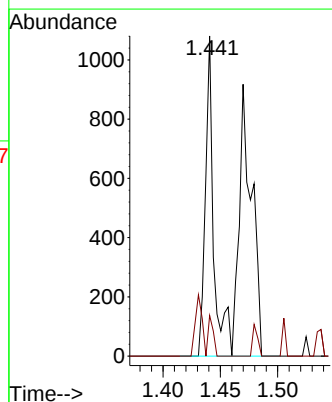
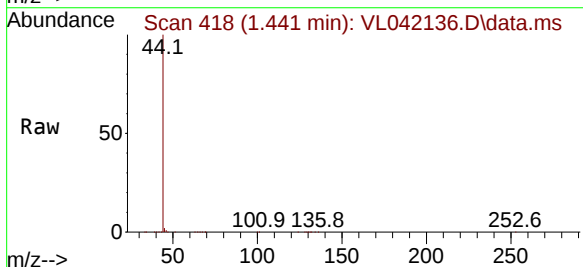
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

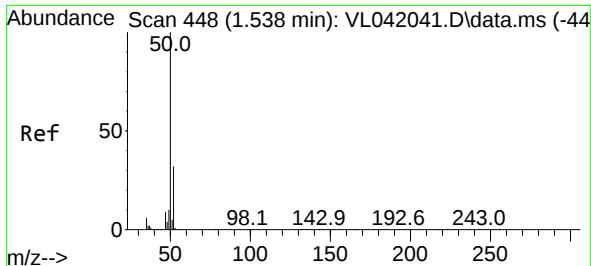
Tgt Ion: 49 Resp: 154320
Ion Ratio Lower Upper
49 100
128 42.8 21.6 64.8
130 55.7 27.8 83.4



#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 1.441 min Scan# 418
Delta R.T. -0.039 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 51 Resp: 1239
Ion Ratio Lower Upper
51 100
67 10.3 13.7 20.5#

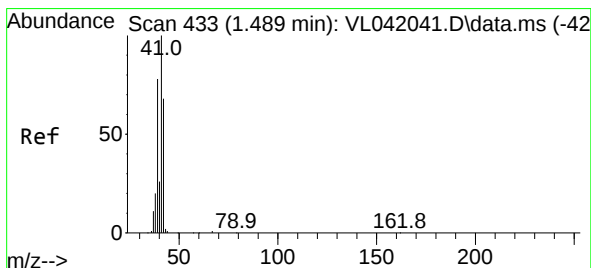
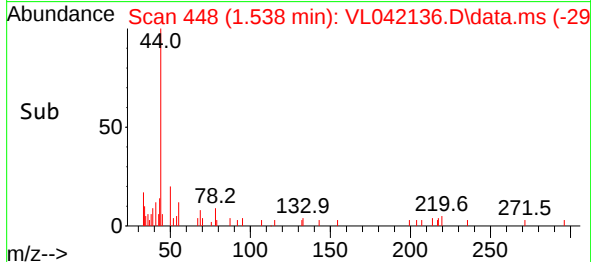
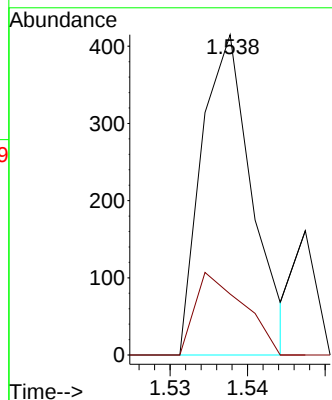
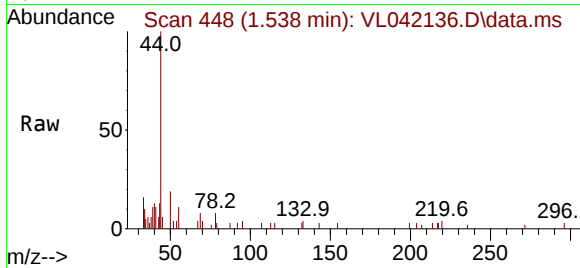




#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

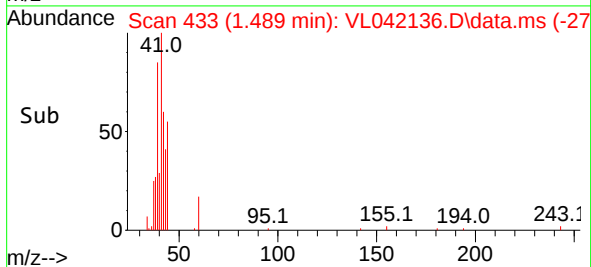
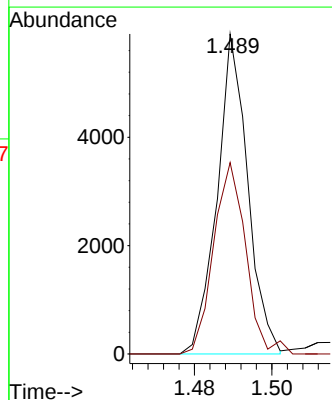
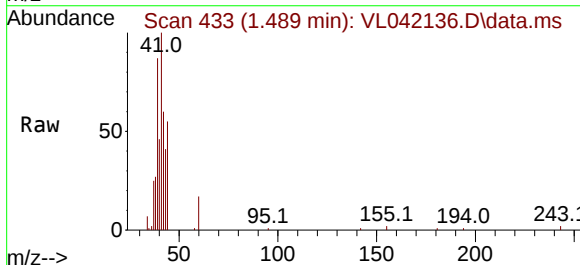
Instrument :
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ClientSampleId :
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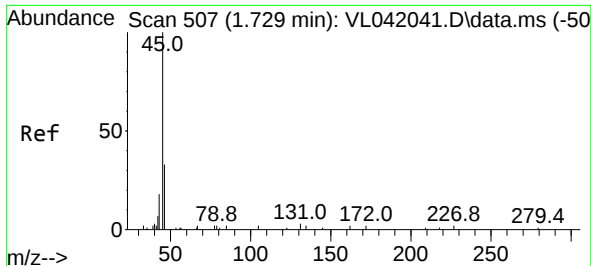
Tgt Ion: 50 Resp: 189
Ion Ratio Lower Upper
50 100
52 19.0 25.4 38.0#



#9
Propene
Concen: 0.355 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 41 Resp: 3247
Ion Ratio Lower Upper
41 100
42 63.2 55.8 83.6

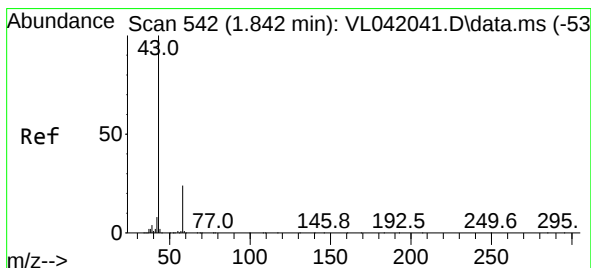
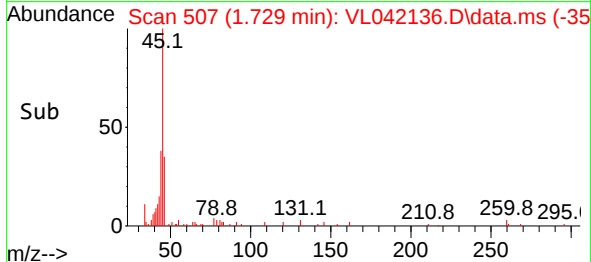
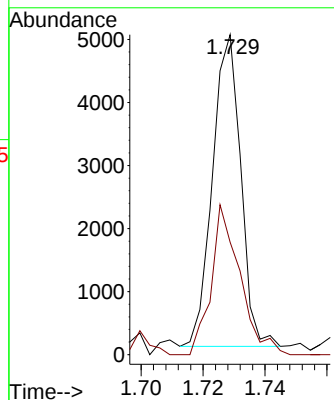
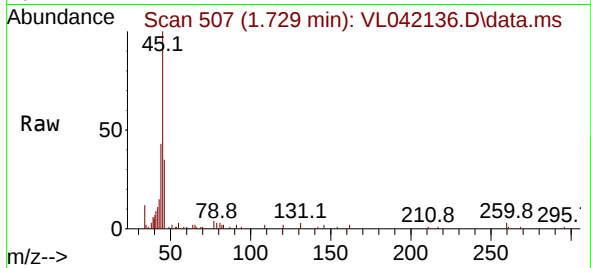




#13
Ethanol
Concen: 5.393 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

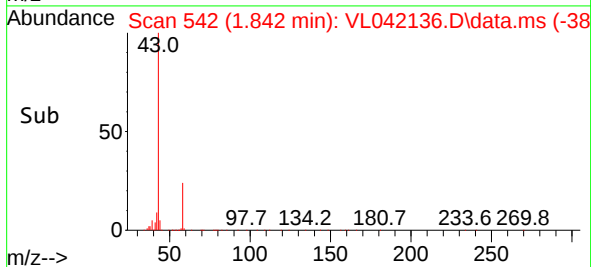
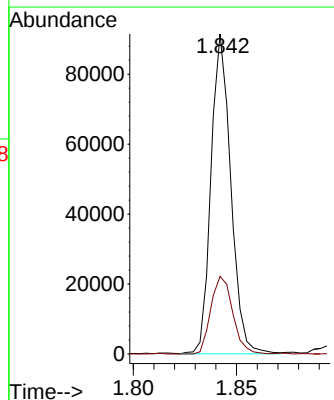
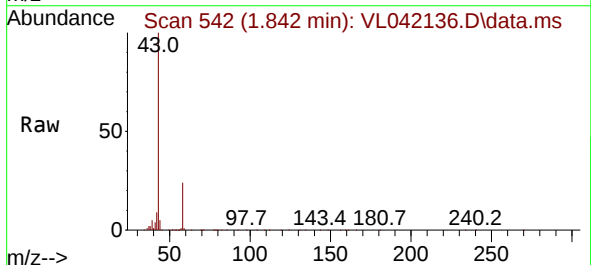
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

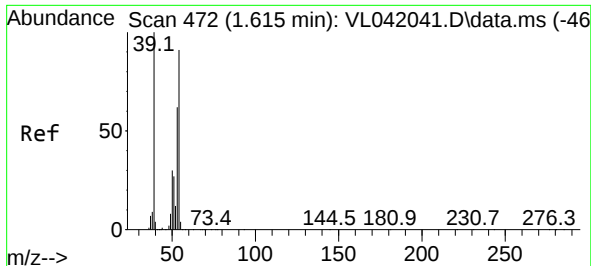
Tgt Ion: 45 Resp: 3128
Ion Ratio Lower Upper
45 100
46 53.5 17.1 68.3



#15
Acetone
Concen: 4.471 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 43 Resp: 60932
Ion Ratio Lower Upper
43 100
58 27.1 20.7 31.1





#16

1,3-Butadiene

Concen: 0.162 ppbv

RT: 1.609 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

Instrument :

MSVOA_L

ClientSampleId :

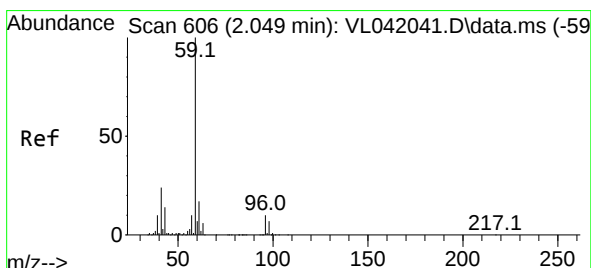
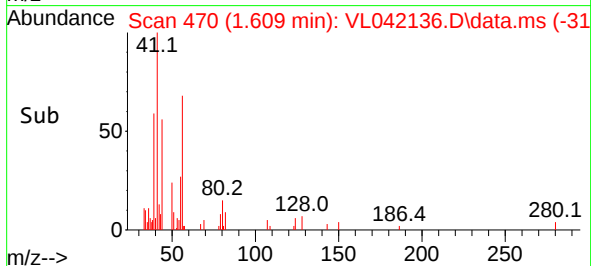
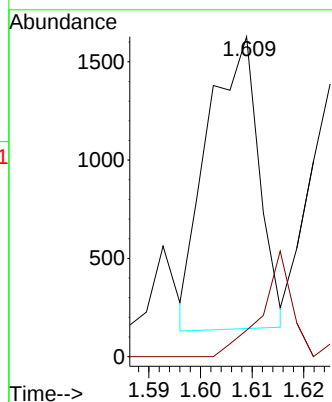
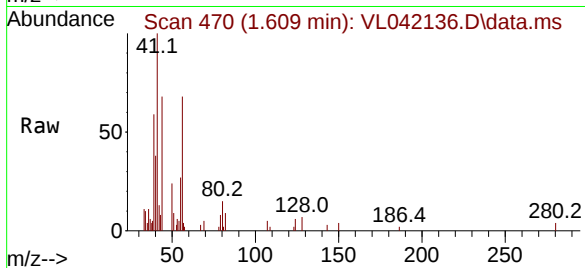
SV1DL

Tgt Ion: 39 Resp: 1029

Ion Ratio Lower Upper

39 100

54 26.2 59.6 89.4#



#17

tert-Butyl alcohol

Concen: 0.078 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.003 min

Lab File: VL042136.D

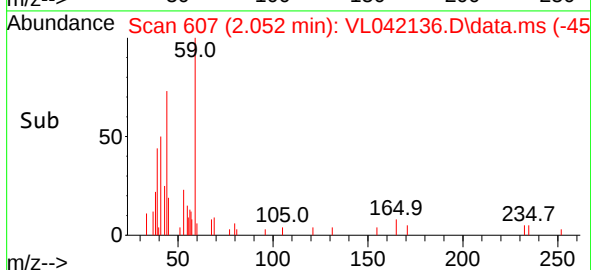
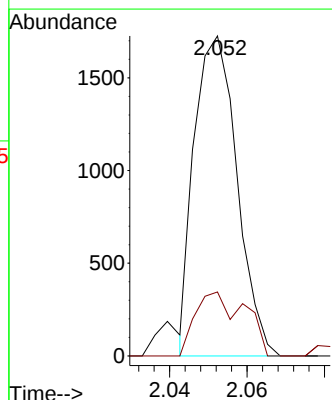
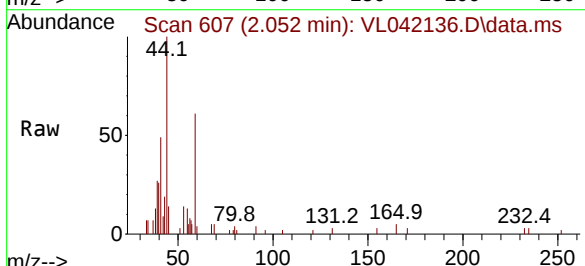
Acq: 10 Mar 2025 21:07

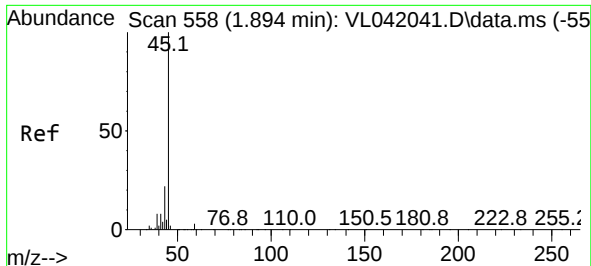
Tgt Ion: 59 Resp: 1327

Ion Ratio Lower Upper

59 100

57 24.6 9.3 13.9#

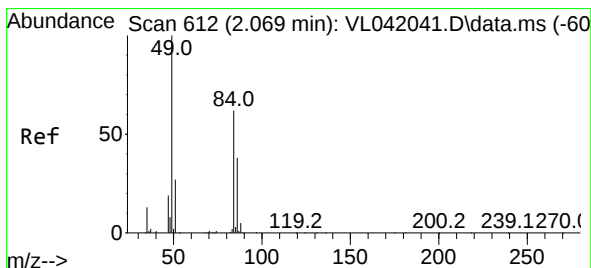
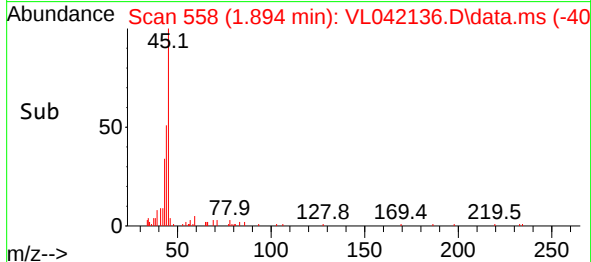
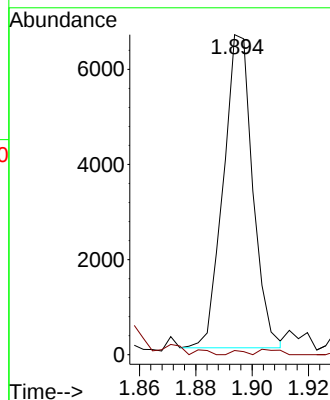
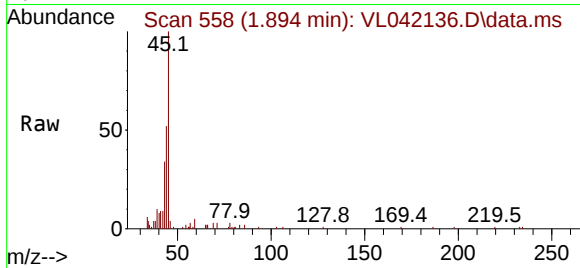




#19
Isopropyl Alcohol
Concen: 0.610 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

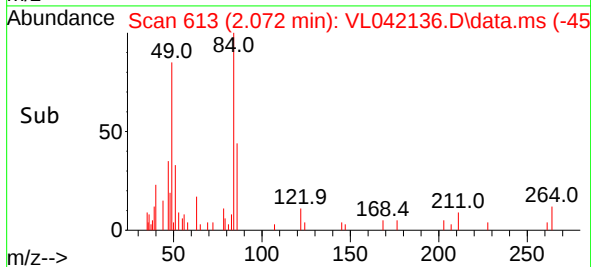
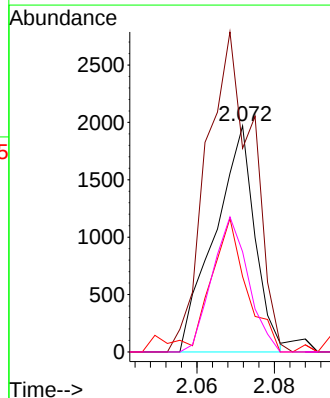
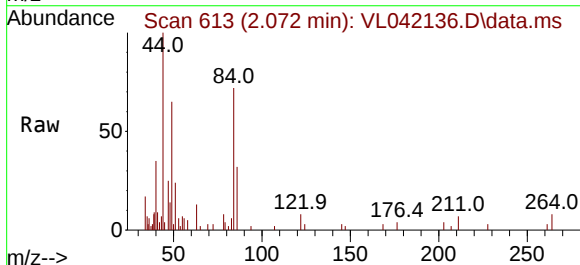
Instrument :
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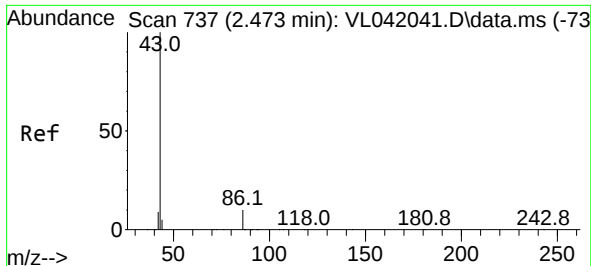
Tgt Ion: 45 Resp: 4776
Ion Ratio Lower Upper
45 100
58 343.6 35.3 52.9#



#20
Methylene Chloride
Concen: 0.274 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 84 Resp: 1415
Ion Ratio Lower Upper
84 100
49 86.5 130.0 195.0#
51 30.3 37.4 56.0#
86 44.3 48.6 72.8#

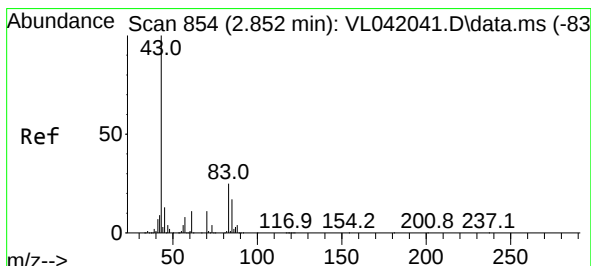
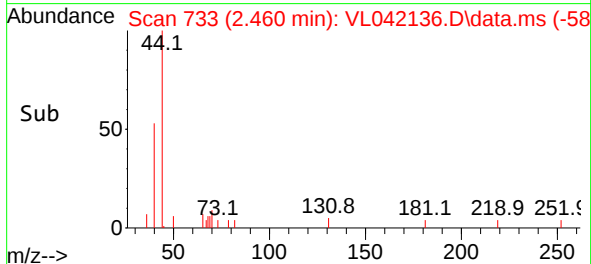
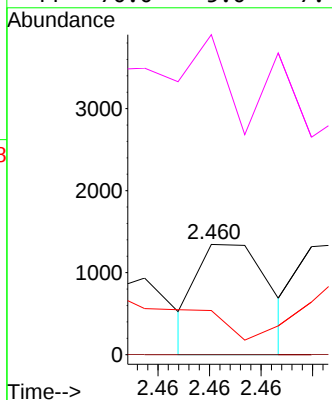
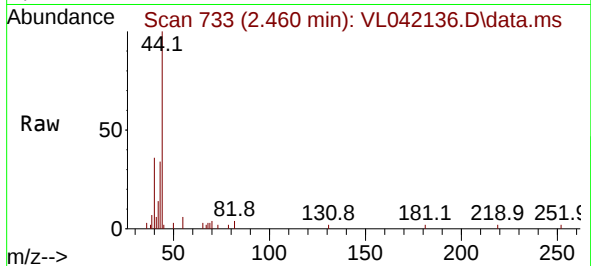




#23
Vinyl Acetate
Concen: 0.068 ppbv
RT: 2.460 min Scan# 714
Delta R.T. -0.013 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

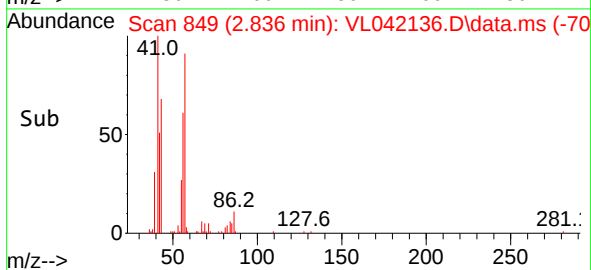
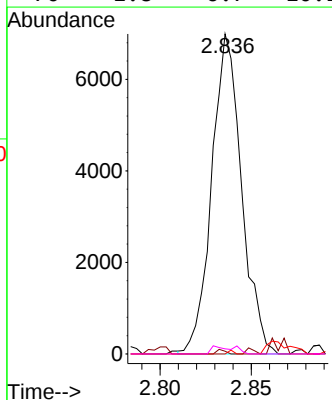
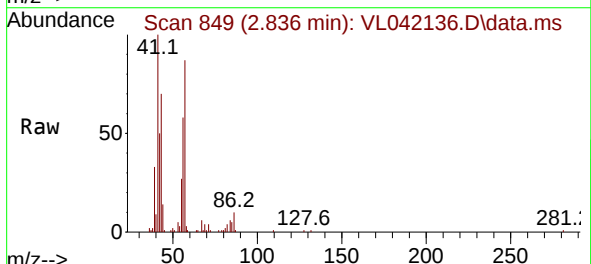
Instrument :
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ClientSampleId :
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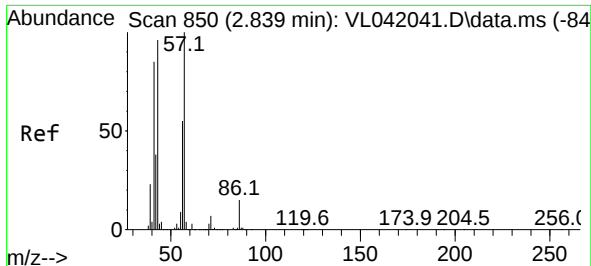
Tgt Ion:	43	Resp:	654
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	22.8	7.6	11.4#
44	70.0	5.0	7.4#



#25
Ethyl Acetate
Concen: 0.146 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.016 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion:	43	Resp:	7943
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.1	12.1#
61	0.0	7.2	10.8#
70	1.8	6.7	10.1#

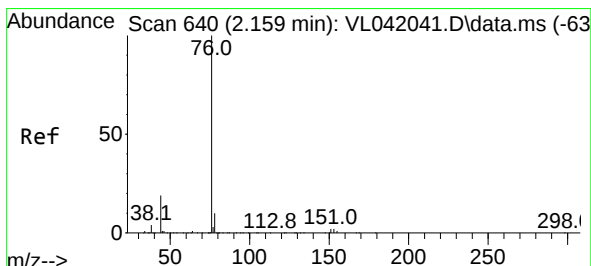
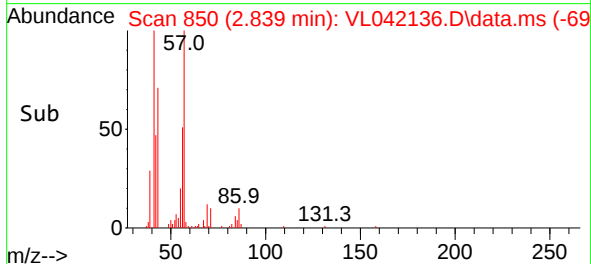
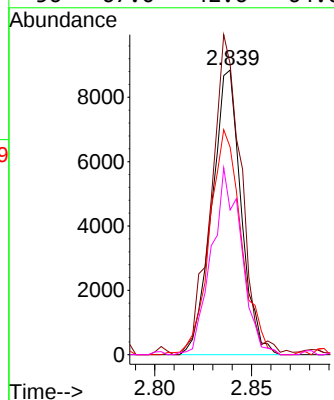
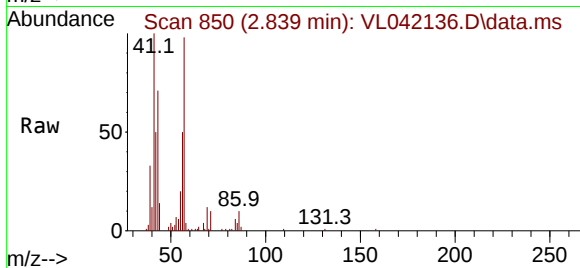




#26
Hexane
Concen: 0.420 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

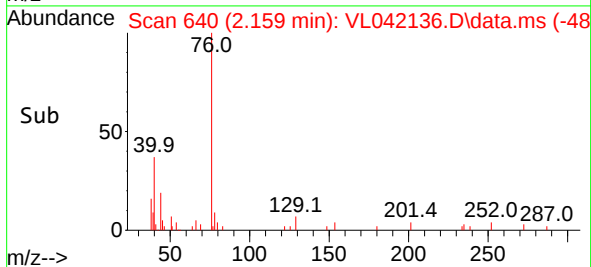
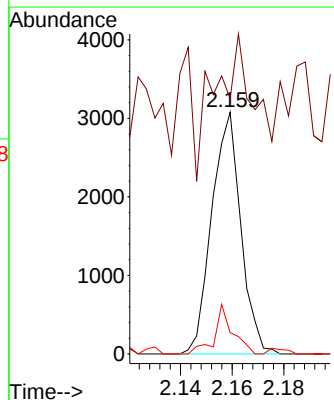
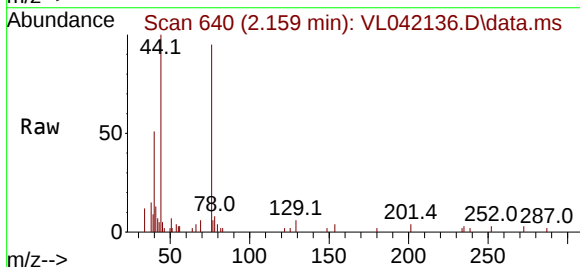
Instrument :
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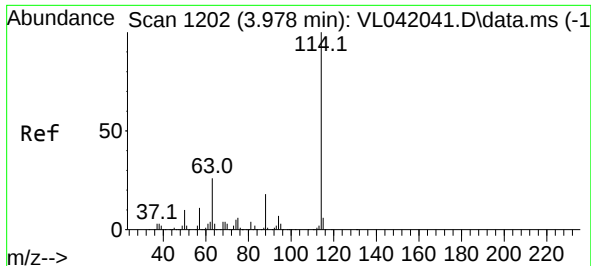
Tgt Ion:	57	Resp:	9270
Ion	Ratio	Lower	Upper
57	100		
41	118.0	70.6	106.0#
43	86.3	199.4	299.0#
56	67.0	42.6	64.0#



#27
Carbon Disulfide
Concen: 0.161 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion:	76	Resp:	2409
Ion	Ratio	Lower	Upper
76	100		
44	90.7	16.2	24.2#
78	13.9	9.4	14.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

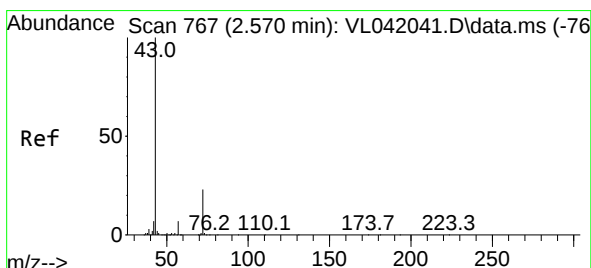
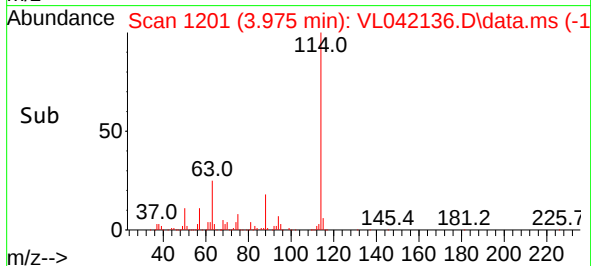
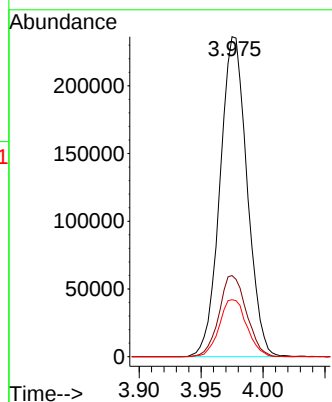
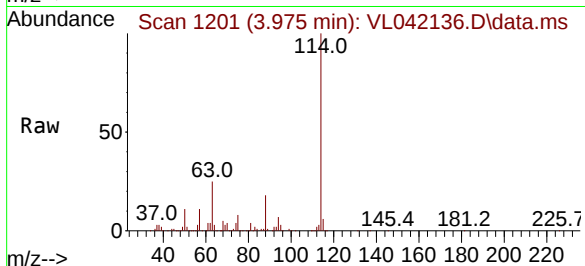
Tgt Ion:114 Resp: 359394

Ion Ratio Lower Upper

114 100

63 25.7 20.1 30.1

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.246 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.003 min

Lab File: VL042136.D

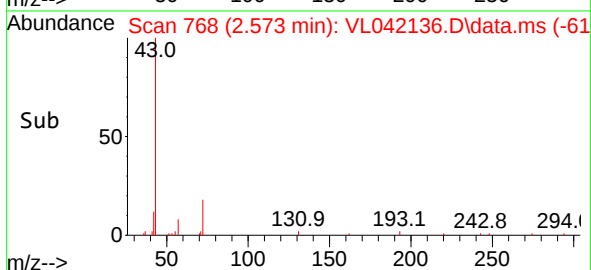
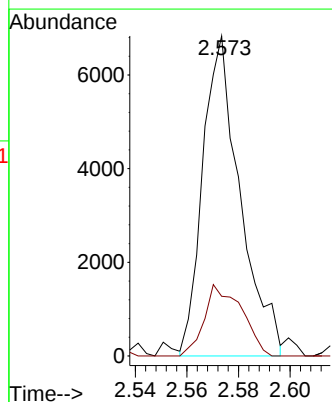
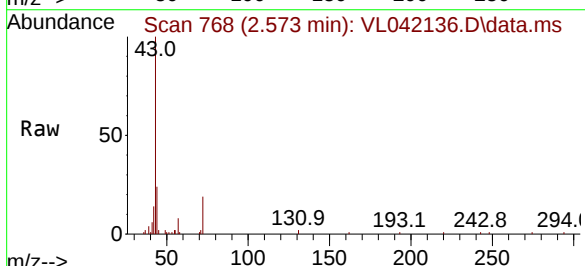
Acq: 10 Mar 2025 21:07

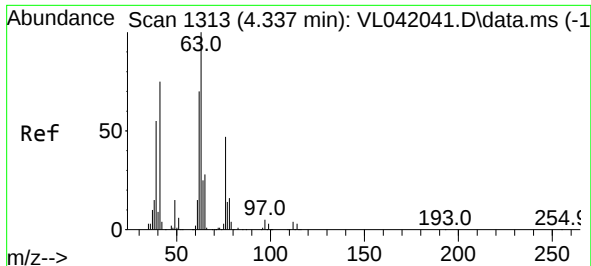
Tgt Ion: 43 Resp: 6877

Ion Ratio Lower Upper

43 100

72 22.3 18.5 27.7





#39

1,2-Dichloropropane

Concen: 6.451 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.363 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

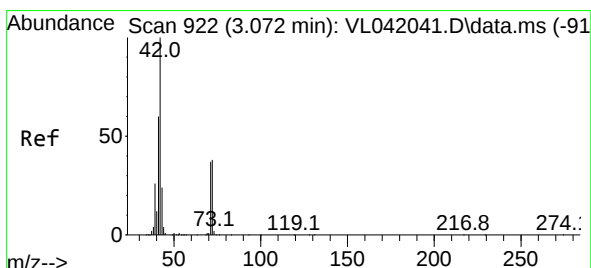
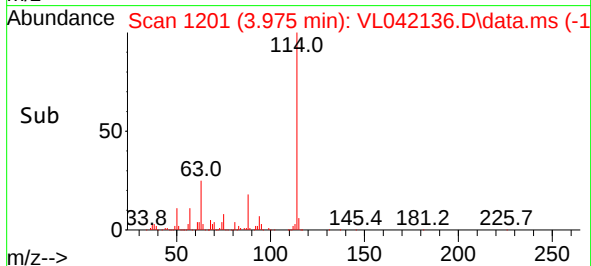
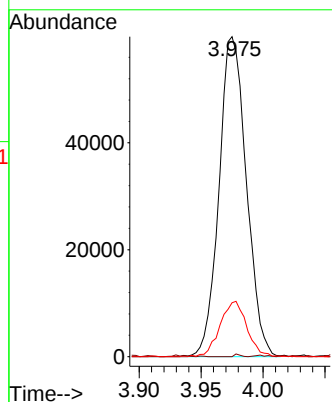
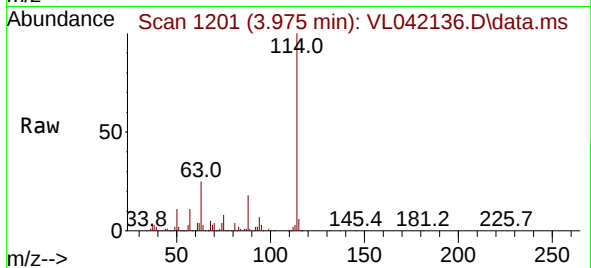
Tgt Ion: 63 Resp: 92120

Ion Ratio Lower Upper

63 100

41 0.0 60.1 90.1#

62 16.8 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.046 ppbv

RT: 3.078 min Scan# 924

Delta R.T. 0.006 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

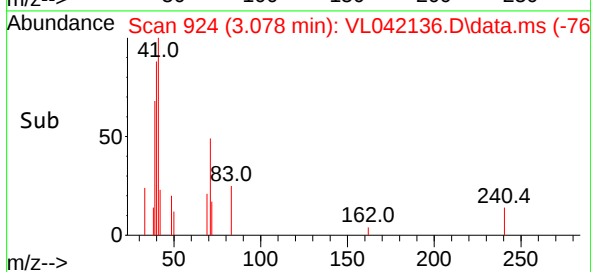
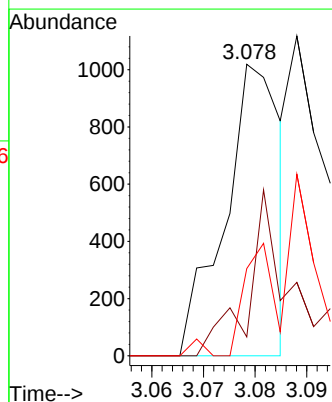
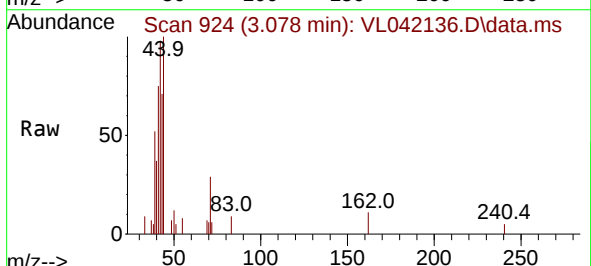
Tgt Ion: 42 Resp: 764

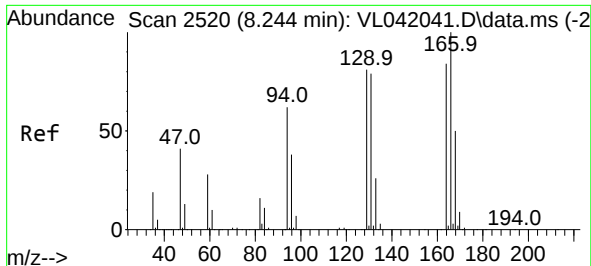
Ion Ratio Lower Upper

42 100

72 49.1 30.2 45.2#

71 0.0 28.2 42.4#

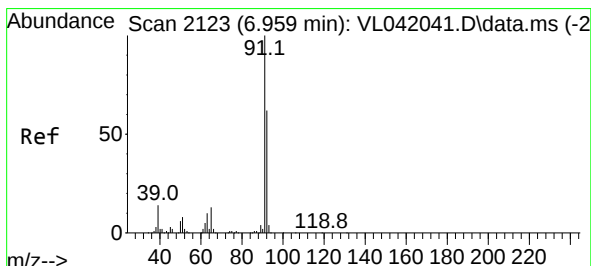
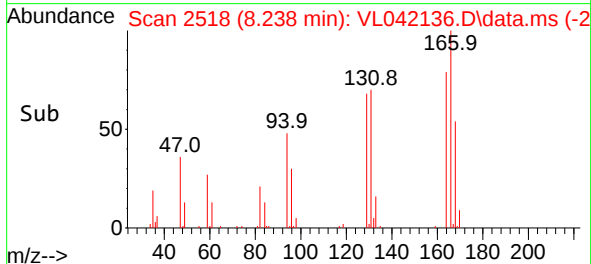
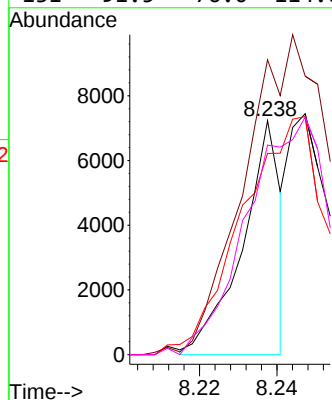
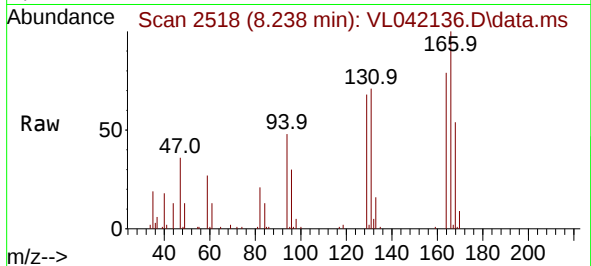




#52
Tetrachloroethene
Concen: 0.385 ppbv
RT: 8.238 min Scan# 2118
Delta R.T. -0.007 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

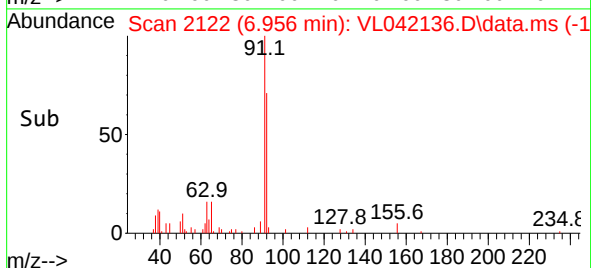
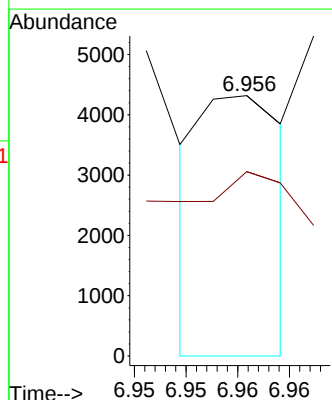
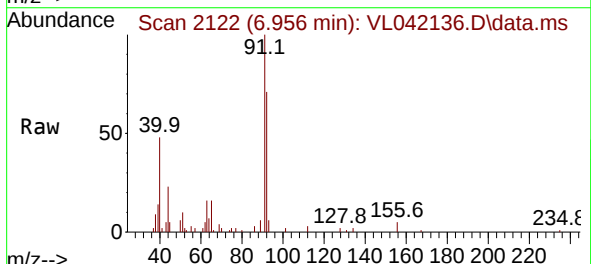
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

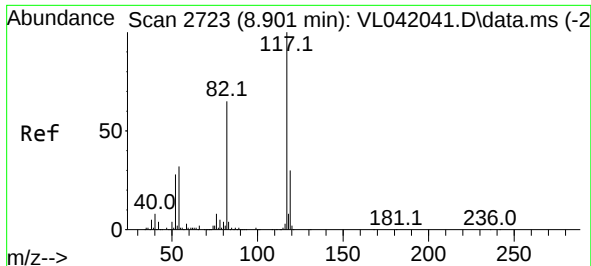
Tgt Ion:164 Resp: 4953
Ion Ratio Lower Upper
164 100
166 127.5 95.7 143.5
129 83.4 77.1 115.7
131 91.5 76.0 114.0



#53
Toluene
Concen: 0.057 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 91 Resp: 2411
Ion Ratio Lower Upper
91 100
92 249.1 49.0 73.6#

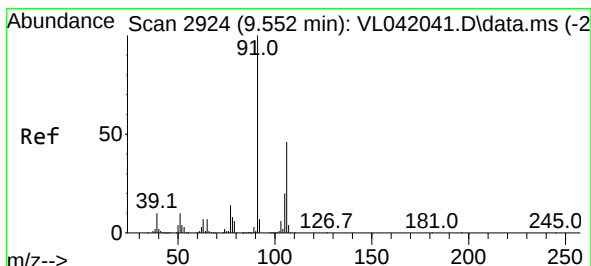
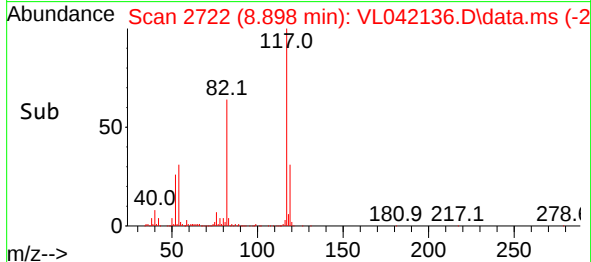
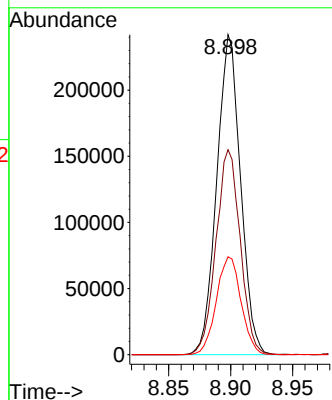
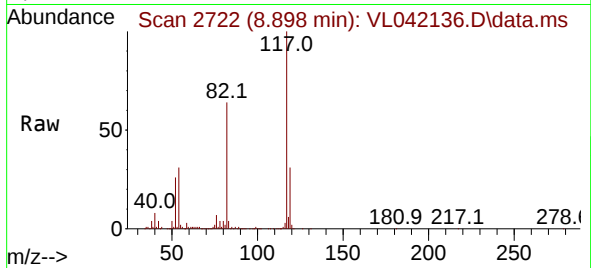




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

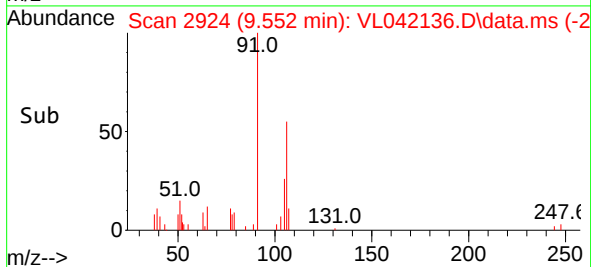
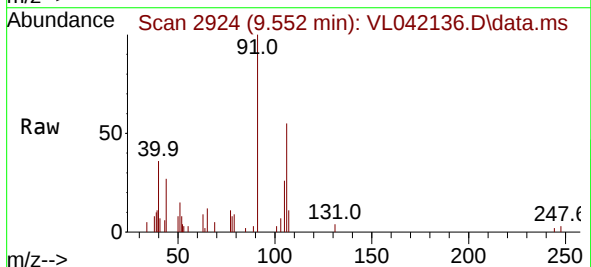
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

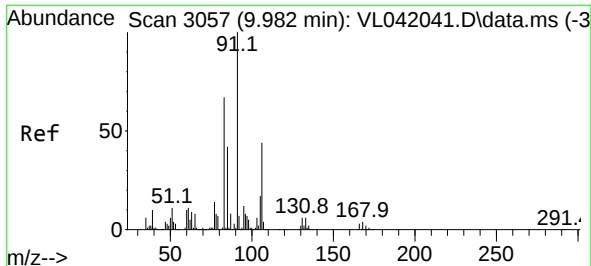
Tgt Ion:117 Resp: 323564
Ion Ratio Lower Upper
117 100
82 65.3 55.0 82.6
119 31.9 25.9 38.9



#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 91 Resp: 2516
Ion Ratio Lower Upper
91 100
106 109.4 0.0 0.0#

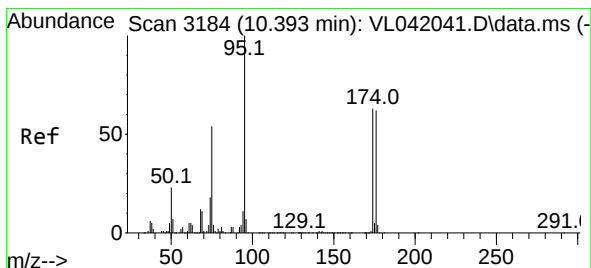
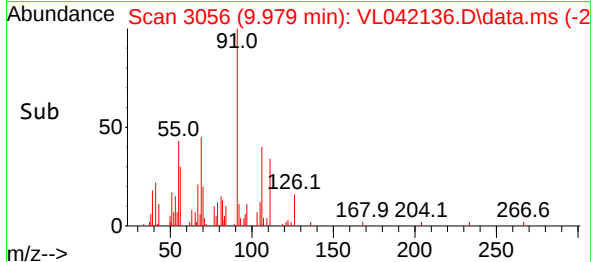
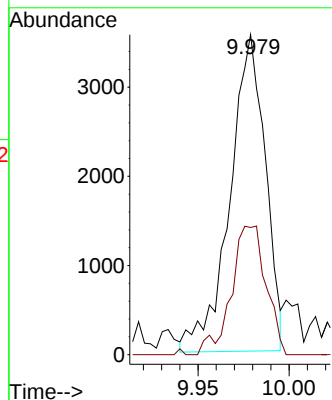
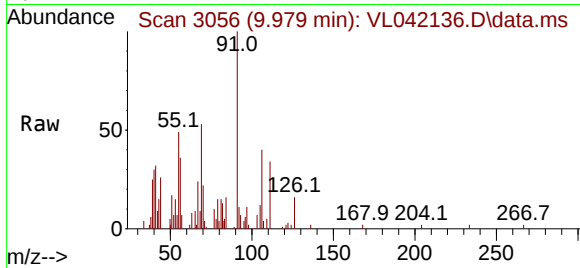




#60
o-Xylene
Concen: 0.101 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

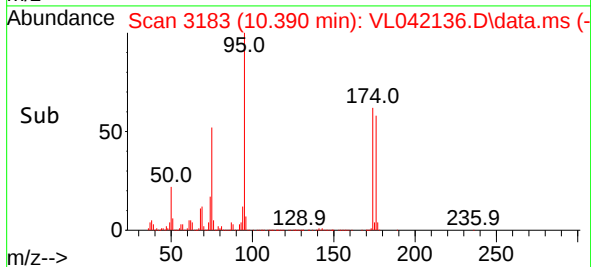
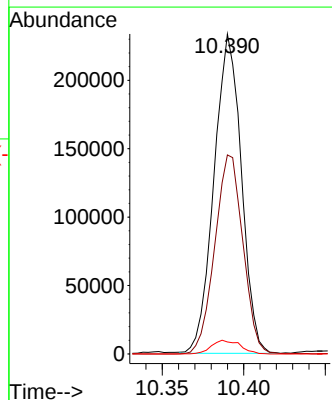
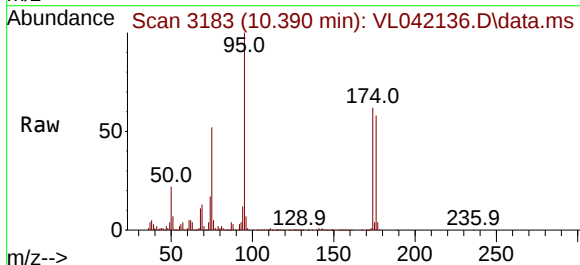
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

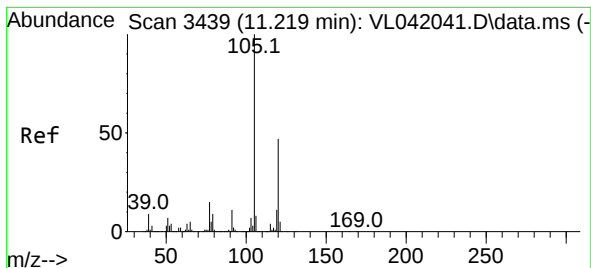
Tgt Ion: 91 Resp: 4815
Ion Ratio Lower Upper
91 100
106 40.0 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.919 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042136.D
Acq: 10 Mar 2025 21:07

Tgt Ion: 95 Resp: 271797
Ion Ratio Lower Upper
95 100
174 64.3 51.8 77.6
175 4.5 3.9 5.9





#73

1,3,5-Trimethylbenzene

Concen: 0.083 ppbv

RT: 11.219 min Scan# 3439

Delta R.T. -0.000 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

Instrument :

MSVOA_1

ClientSampleId :

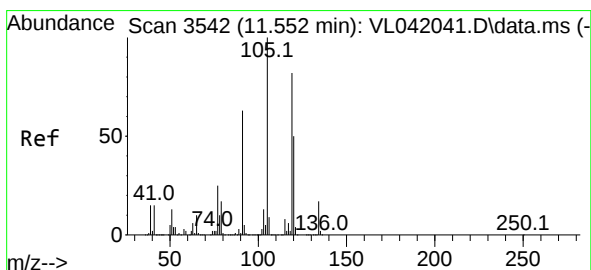
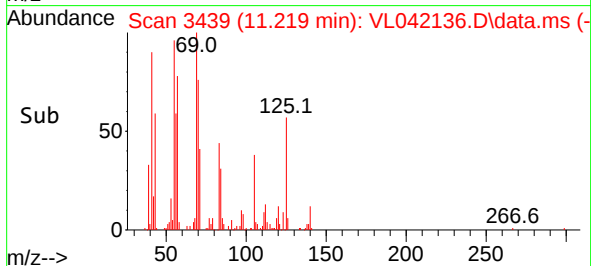
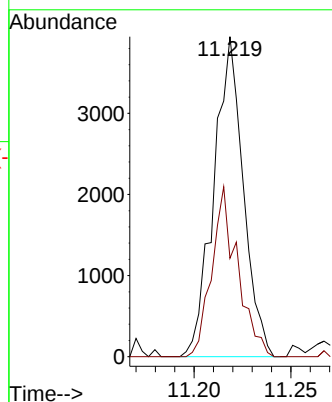
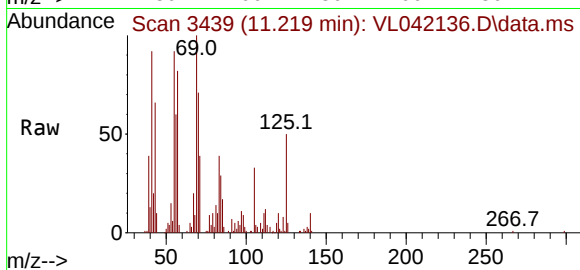
SV1DL

Tgt Ion:105 Resp: 4188

Ion Ratio Lower Upper

105 100

120 37.4 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.074 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042136.D

Acq: 10 Mar 2025 21:07

Tgt Ion:105 Resp: 4185

Ion Ratio Lower Upper

105 100

120 22.0 40.2 60.2#

91 25.0 51.4 77.2#

77 12.5 20.1 30.1#

