

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042975.D
 Acq On : 23 Sep 2025 01:46
 Operator : SY/MD
 Sample : Q3131-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-1A-1DL

Quant Time: Sep 24 01:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

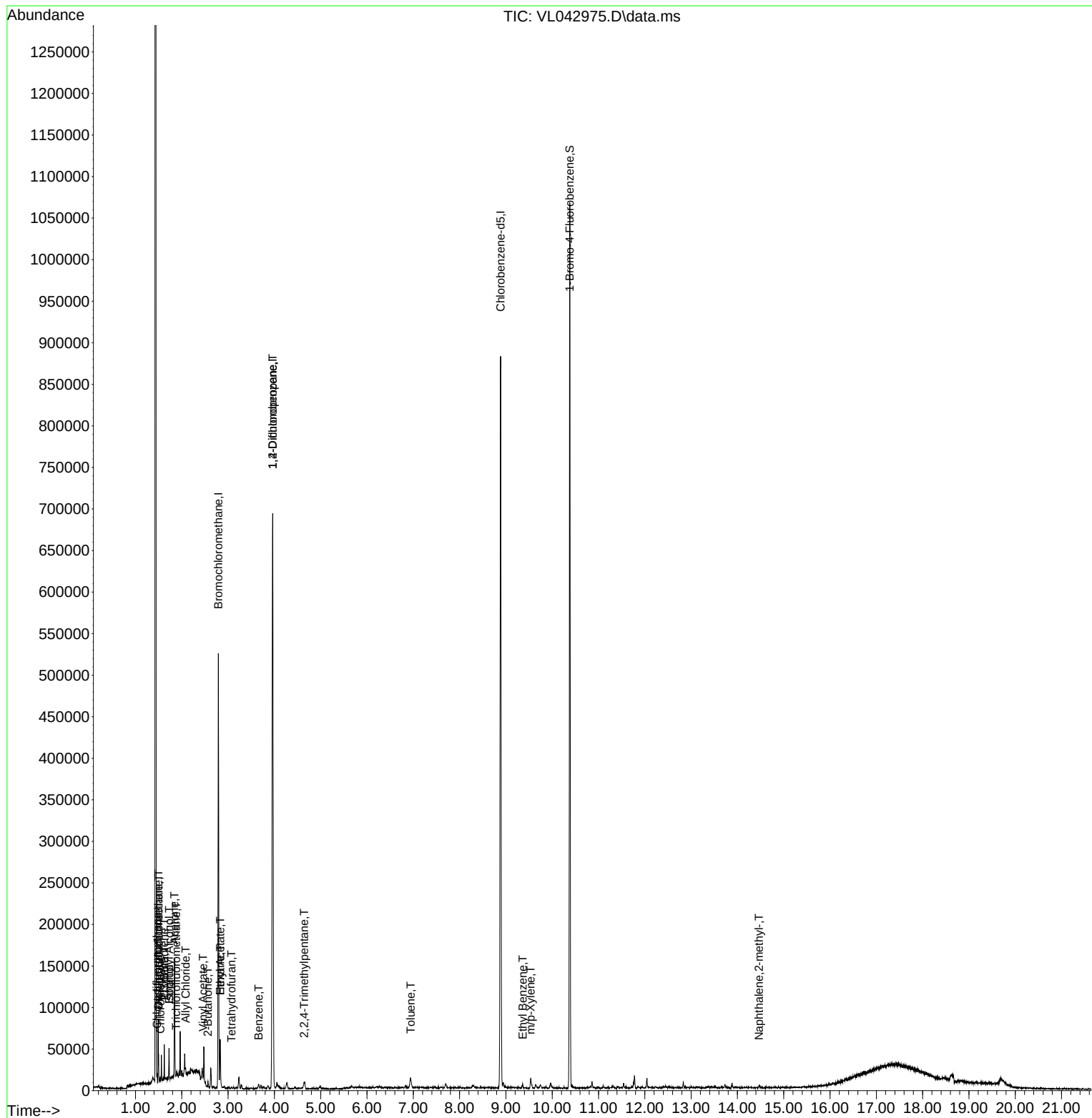
Internal Standards						
1) Bromochloromethane	2.790	49	142766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	419987	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	364182	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	273620	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7296	0.380	ppbv	98
3) Chlorodifluoromethane	1.467	51	3611	0.151	ppbv #	71
4) Chloromethane	1.535	50	442	0.051	ppbv #	44
8) Dichlorotetrafluoroethane	1.499	85	7296	0.445	ppbv #	19
9) Propene	1.622	41	3696	0.355	ppbv	87
11) Trichlorofluoromethane	1.881	101	756	0.041	ppbv	98
13) Ethanol	1.726	45	13214	13.083	ppbv	100
15) Acetone	1.839	43	51308	2.759	ppbv #	81
16) 1,3-Butadiene	1.622	39	2155	0.246	ppbv #	19
19) Isopropyl Alcohol	1.726	45	13214	1.182	ppbv #	51
20) Methylene Chloride	2.062	84	3387	Below Cal		97
21) Allyl Chloride	2.082	41	1000	0.077	ppbv #	53
23) Vinyl Acetate	2.457	43	953	0.036	ppbv #	78
25) Ethyl Acetate	2.829	43	10733	0.228	ppbv #	87
26) Hexane	2.829	57	12846	0.600	ppbv #	45
34) 2-Butanone	2.564	43	4708	0.160	ppbv	97
36) Benzene	3.661	78	2611	0.066	ppbv #	93
39) 1,2-Dichloropropane	3.962	63	103352	7.178	ppbv #	25
41) Tetrahydrofuran	3.072	42	663	0.039	ppbv #	85
44) 2,2,4-Trimethylpentane	4.645	57	7639	0.112	ppbv #	77
53) Toluene	6.943	91	3546	0.076	ppbv #	5
58) Ethyl Benzene	9.361	91	2132	0.036	ppbv	91
59) m/p-Xylene	9.532	91	4541	0.096	ppbv #	100
80) Naphthalene,2-methyl-	14.468	142	1323	0.092	ppbv	98

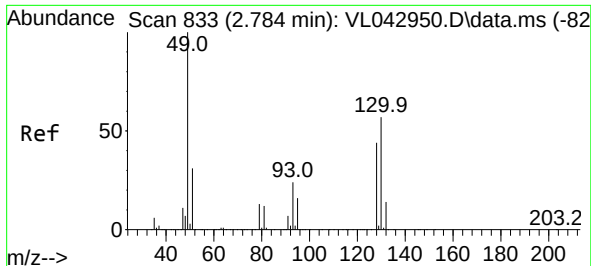
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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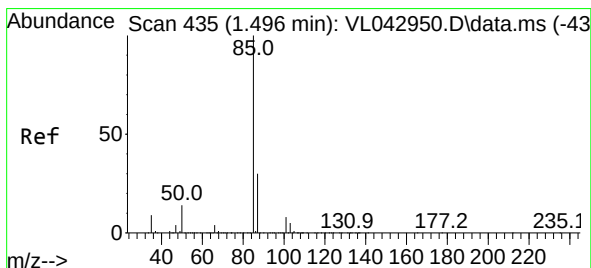
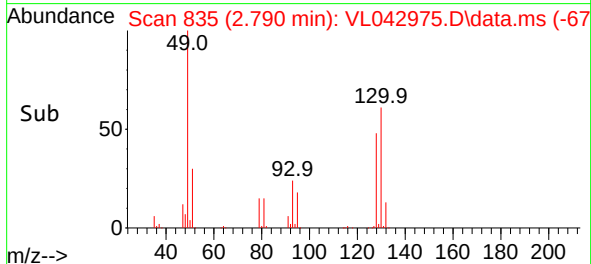
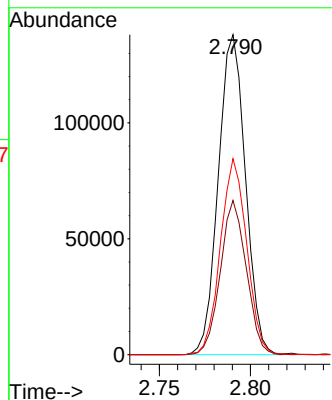
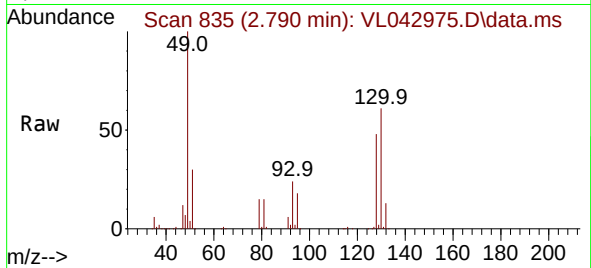




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

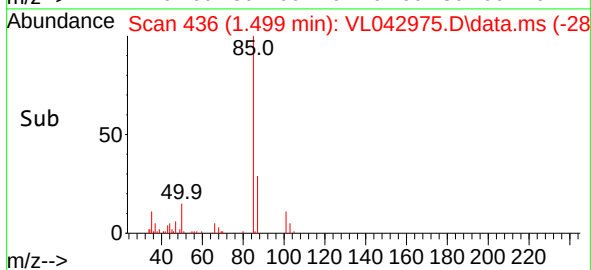
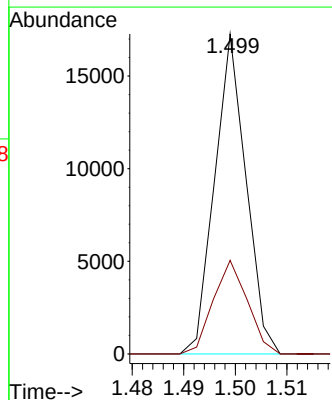
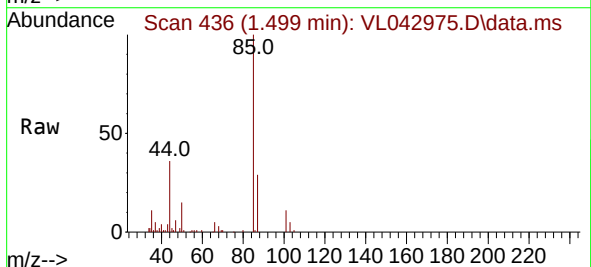
Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

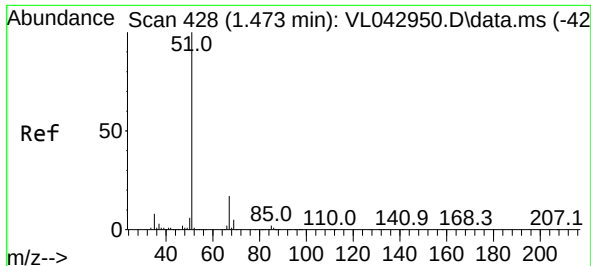
Tgt Ion: 49 Resp: 142766
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.8
130 59.5 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.380 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 85 Resp: 7296
Ion Ratio Lower Upper
85 100
87 29.2 24.3 36.5

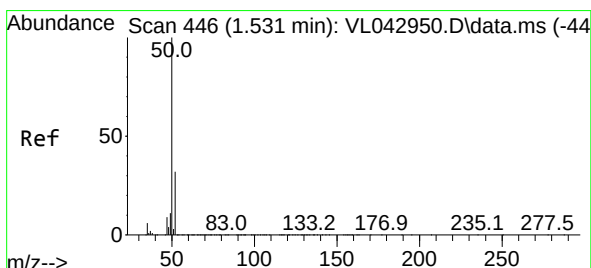
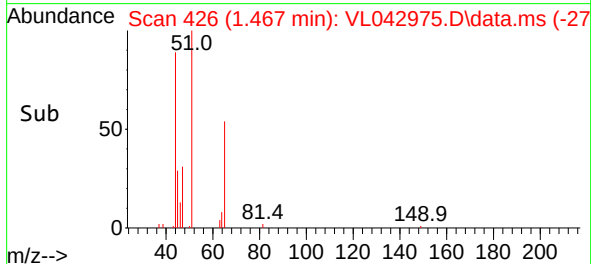
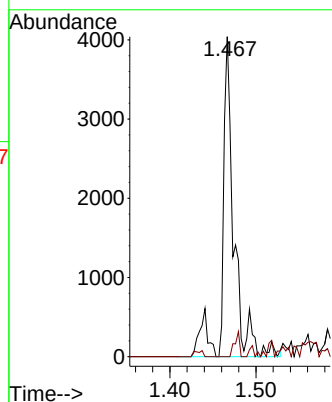
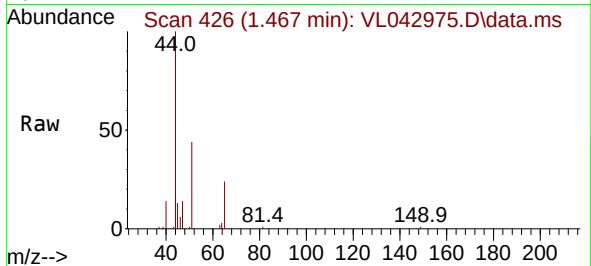




#3
Chlorodifluoromethane
Concen: 0.151 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

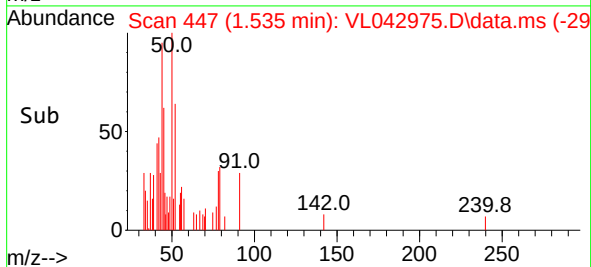
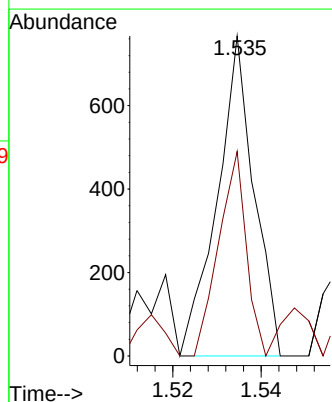
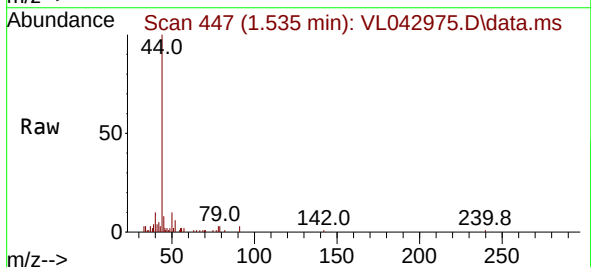
Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

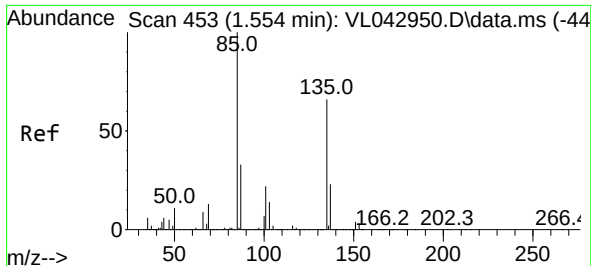
Tgt Ion: 51 Resp: 3611
Ion Ratio Lower Upper
51 100
67 4.7 13.8 20.8#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 50 Resp: 442
Ion Ratio Lower Upper
50 100
52 63.9 25.9 38.9#

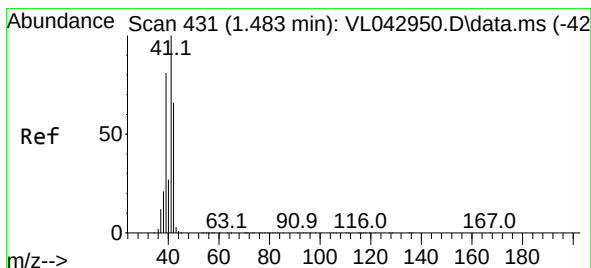
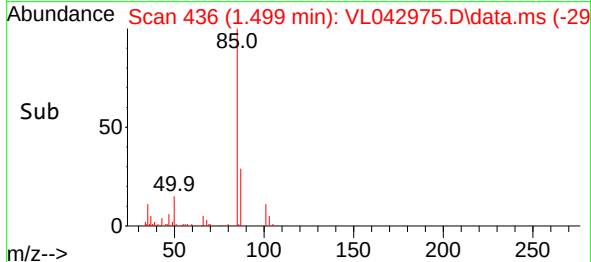
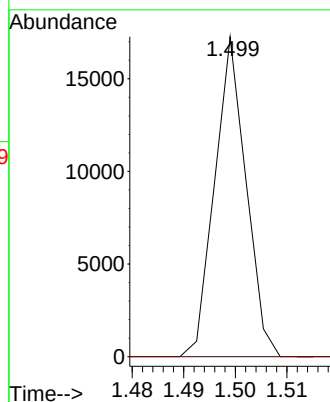
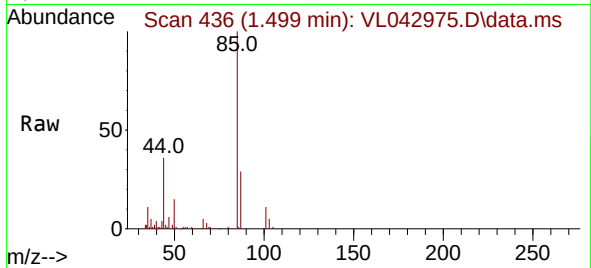




#8
Dichlorotetrafluoroethane
Concen: 0.445 ppbv
RT: 1.499 min Scan# 411
Delta R.T. -0.055 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

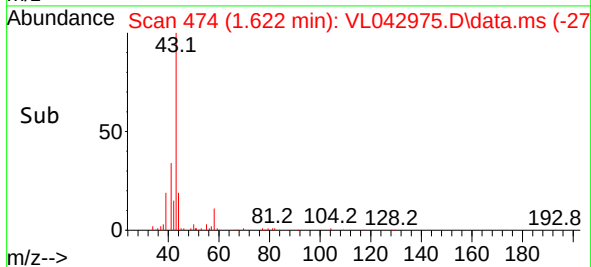
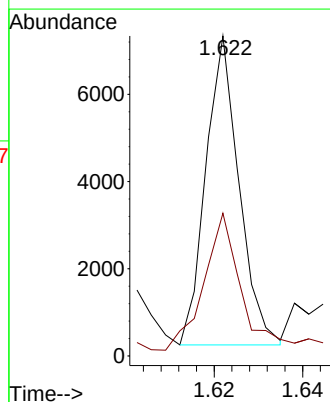
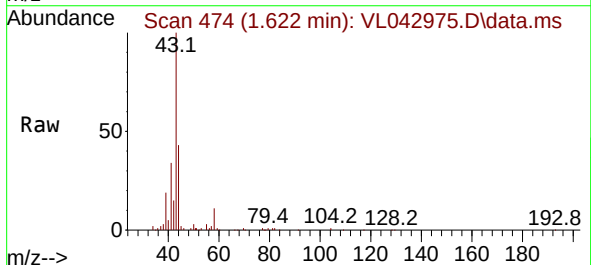
Instrument :
MSVOA_1
ClientSampleId :
141-1A-1DL

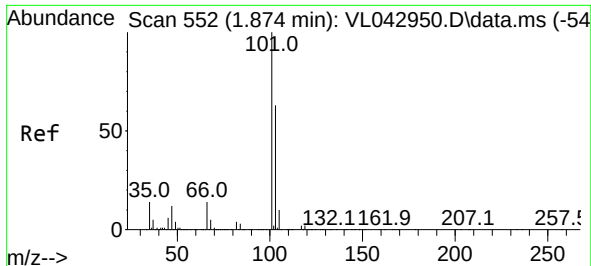
Tgt Ion: 85 Resp: 7296
Ion Ratio Lower Upper
85 100
135 0.0 49.7 74.5#



#9
Propene
Concen: 0.355 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.139 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 41 Resp: 3696
Ion Ratio Lower Upper
41 100
42 60.7 57.4 86.2

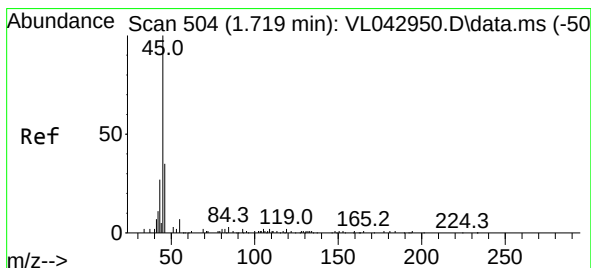
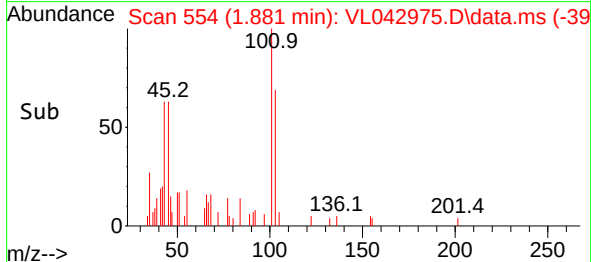
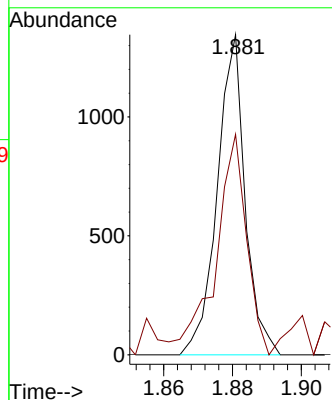
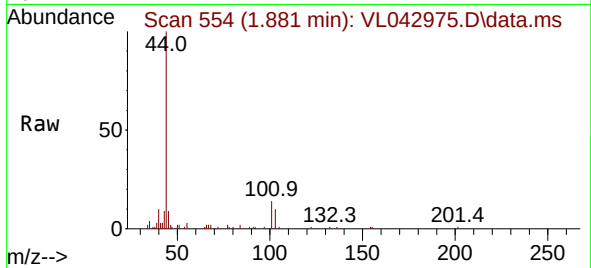




#11
Trichlorofluoromethane
Concen: 0.041 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

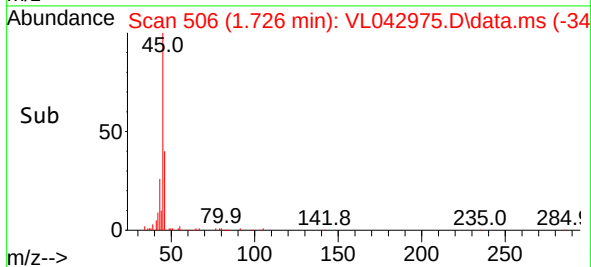
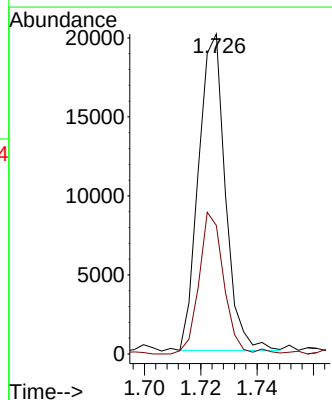
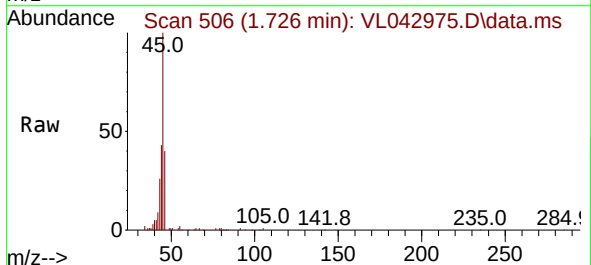
Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

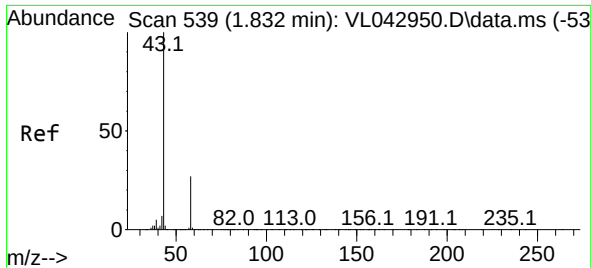
Tgt Ion:101 Resp: 756
Ion Ratio Lower Upper
101 100
103 64.0 50.1 75.1



#13
Ethanol
Concen: 13.083 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 45 Resp: 13214
Ion Ratio Lower Upper
45 100
46 40.6 16.2 64.6





#15

Acetone

Concen: 2.759 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.007 min

Lab File: VL042975.D

Acq: 23 Sep 2025 01:46

Instrument :

MSVOA_L

ClientSampleId :

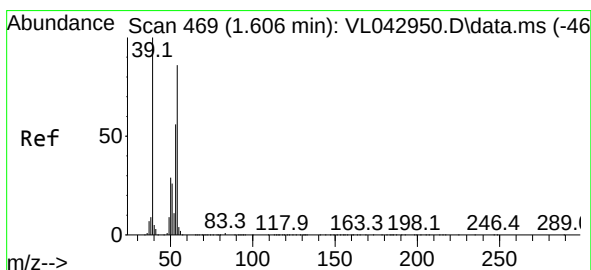
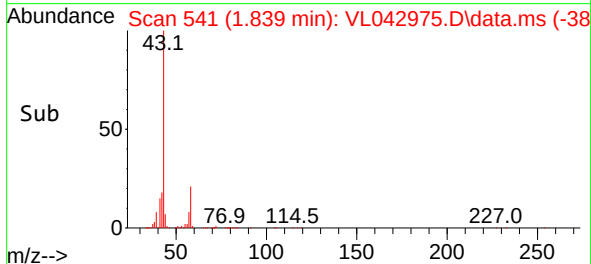
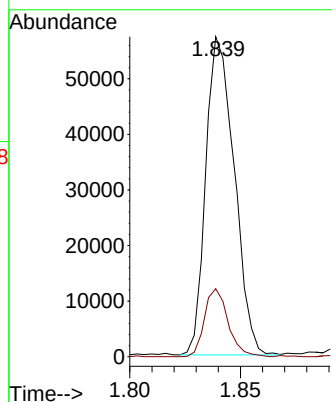
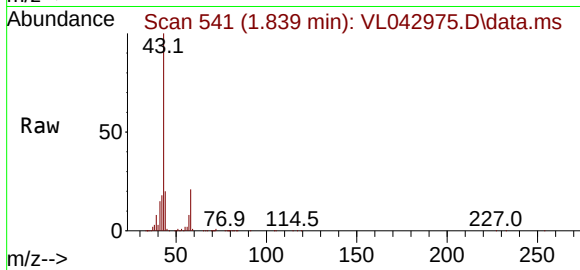
141-1A-1DL

Tgt Ion: 43 Resp: 51308

Ion Ratio Lower Upper

43 100

58 17.8 22.3 33.5#



#16

1,3-Butadiene

Concen: 0.246 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.016 min

Lab File: VL042975.D

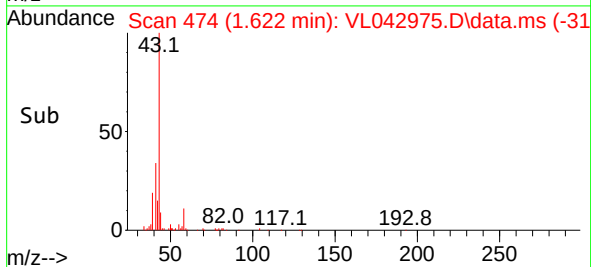
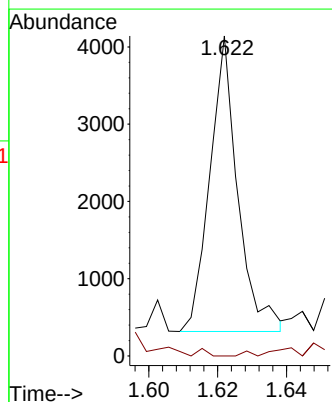
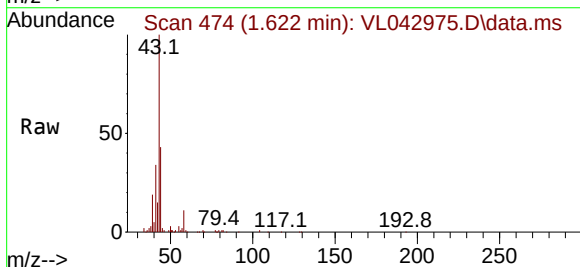
Acq: 23 Sep 2025 01:46

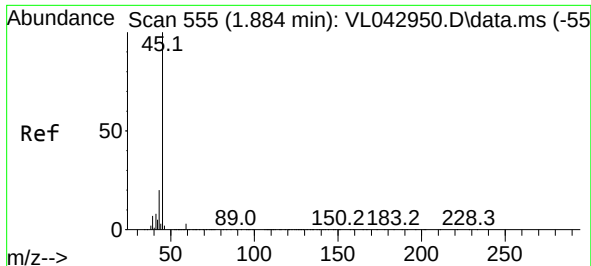
Tgt Ion: 39 Resp: 2155

Ion Ratio Lower Upper

39 100

54 6.5 60.8 91.2#

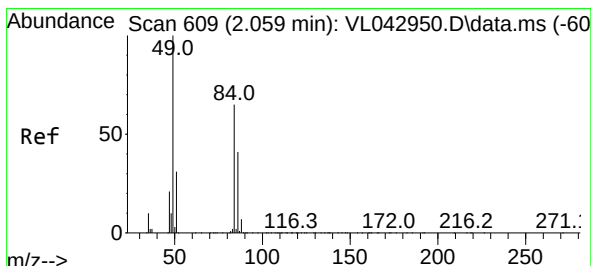
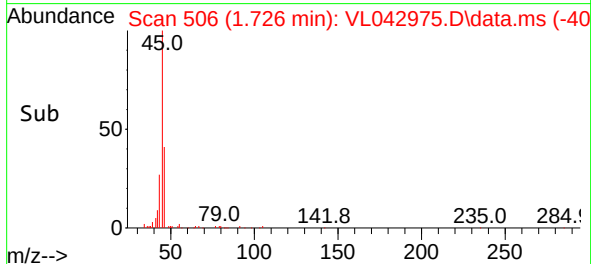
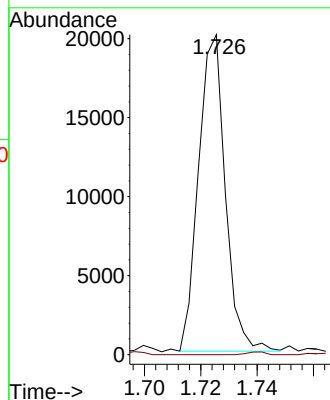
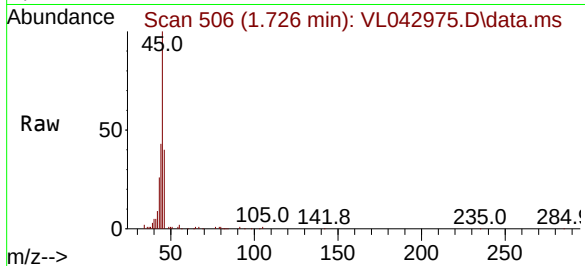




#19
Isopropyl Alcohol
Concen: 1.182 ppbv
RT: 1.726 min Scan# 50
Delta R.T. -0.159 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

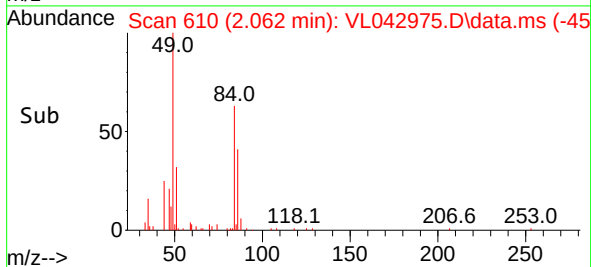
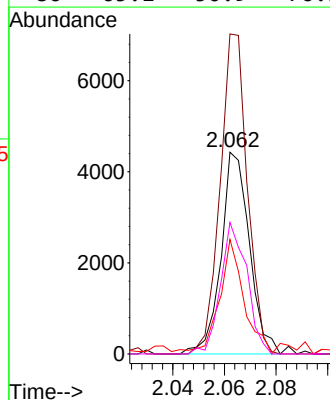
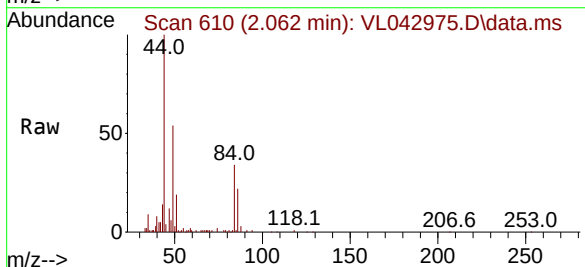
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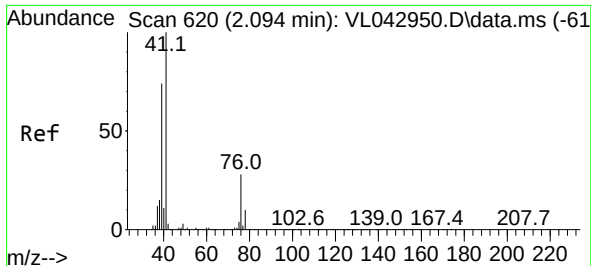
Tgt Ion: 45 Resp: 13214
Ion Ratio Lower Upper
45 100
58 9.3 31.0 46.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 84 Resp: 3387
Ion Ratio Lower Upper
84 100
49 158.6 124.1 186.1
51 54.7 39.8 59.8
86 65.1 50.9 76.3

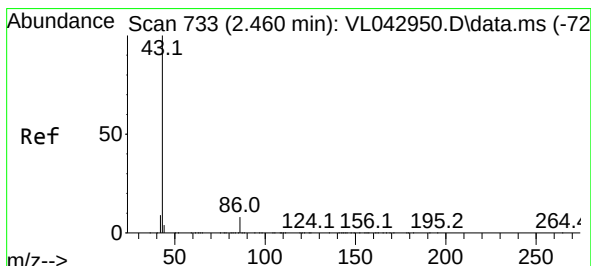
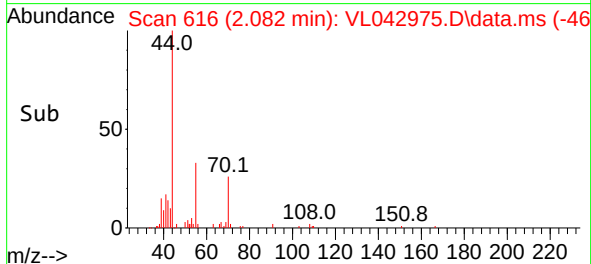
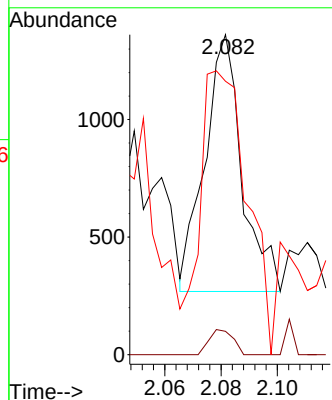
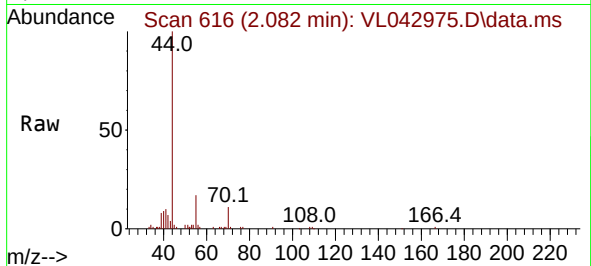




#21
 Allyl Chloride
 Concen: 0.077 ppbv
 RT: 2.082 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL042975.D
 Acq: 23 Sep 2025 01:46

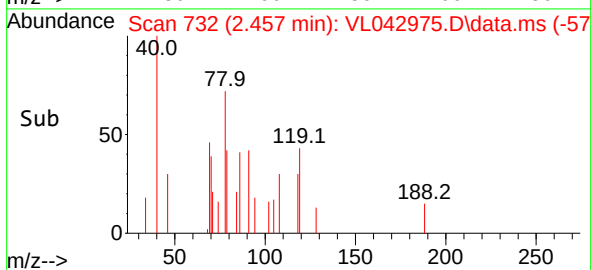
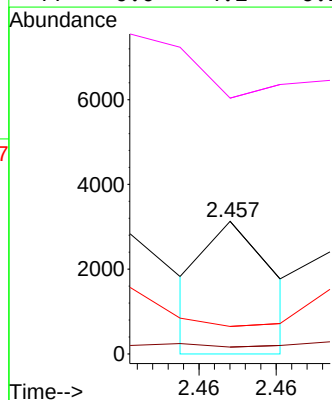
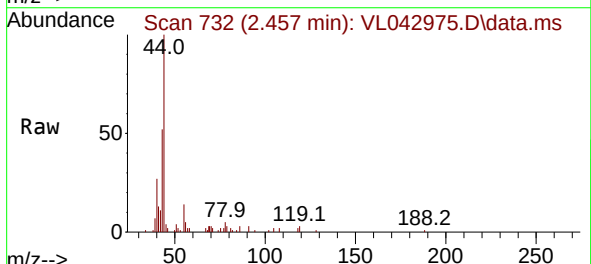
Instrument :
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 141-1A-1DL

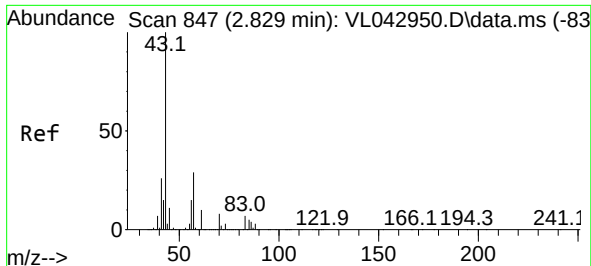
Tgt Ion: 41 Resp: 1000
 Ion Ratio Lower Upper
 41 100
 76 6.3 22.3 33.5#
 39 118.5 61.3 91.9#



#23
 Vinyl Acetate
 Concen: 0.036 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042975.D
 Acq: 23 Sep 2025 01:46

Tgt Ion: 43 Resp: 953
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.2 9.2#
 42 0.0 7.4 11.0#
 44 0.0 4.2 6.2#

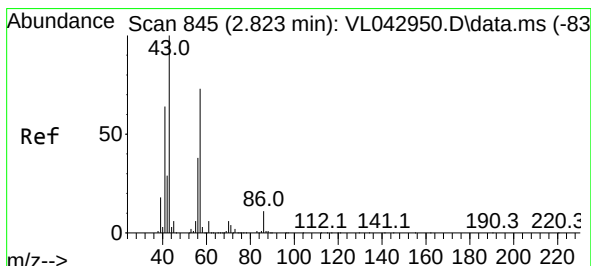
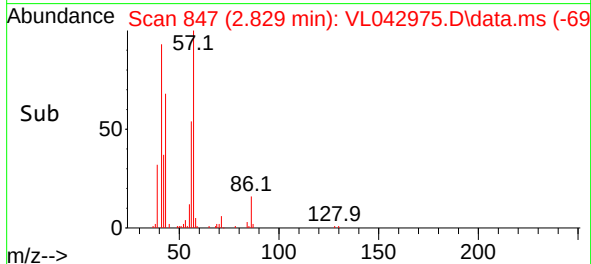
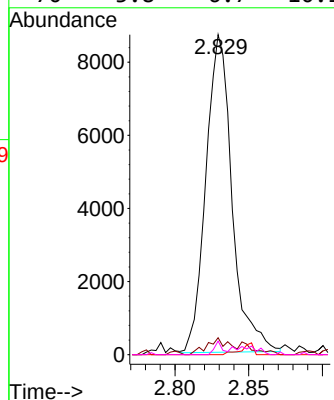
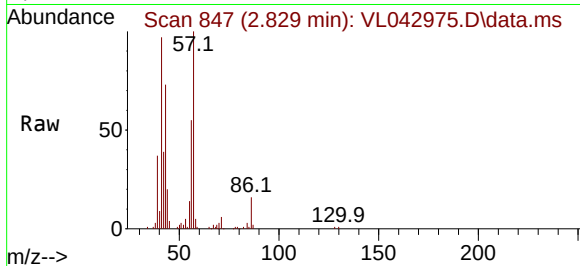




#25
Ethyl Acetate
Concen: 0.228 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

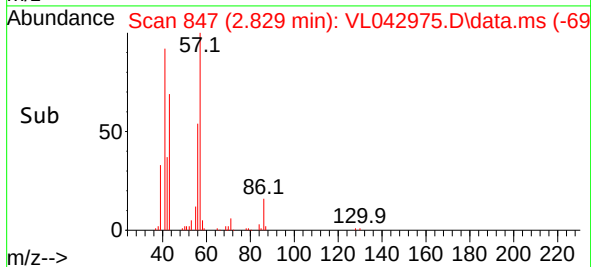
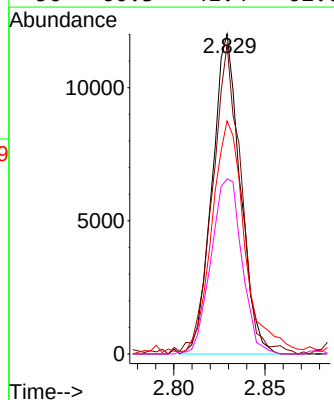
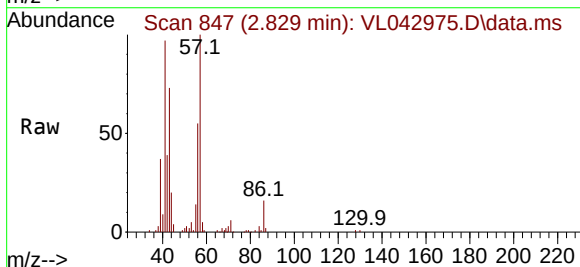
Instrument :
MSVOA_1
ClientSampleId :
141-1A-1DL

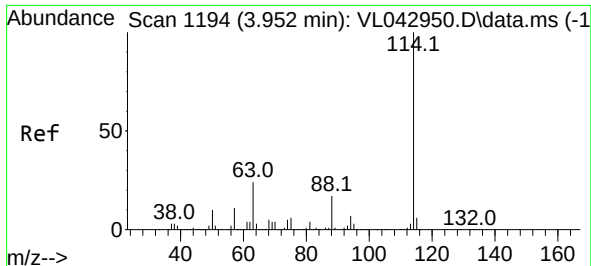
Tgt Ion:	43	Resp:	10733
Ion	Ratio	Lower	Upper
43	100		
45	7.1	7.7	11.5#
61	1.6	7.1	10.7#
70	3.8	6.7	10.1#



#26
Hexane
Concen: 0.600 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion:	57	Resp:	12846
Ion	Ratio	Lower	Upper
57	100		
41	97.8	71.7	107.5
43	88.9	180.8	271.2#
56	60.3	41.4	62.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL042975.D

Acq: 23 Sep 2025 01:46

Instrument :

MSVOA_L

ClientSampleId :

141-1A-1DL

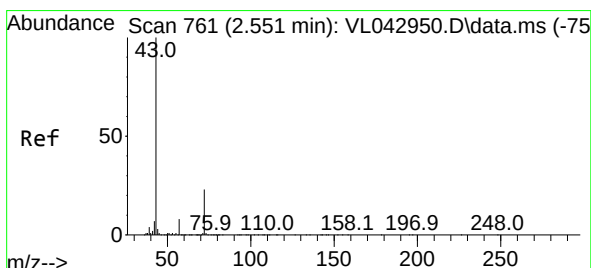
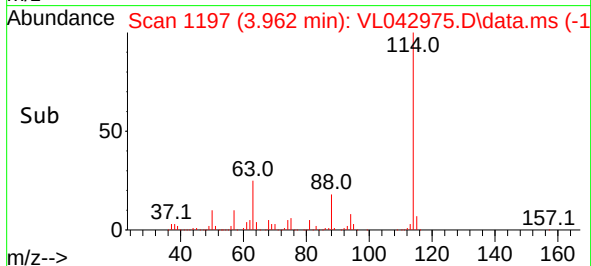
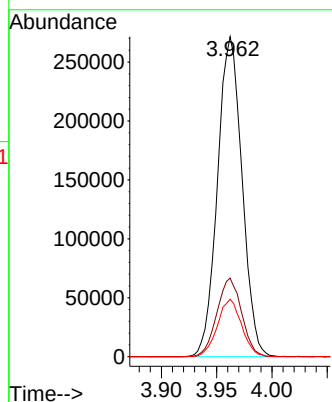
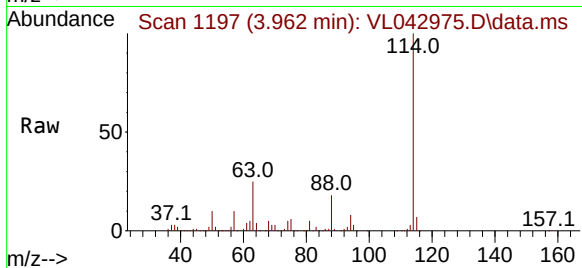
Tgt Ion:114 Resp: 419987

Ion Ratio Lower Upper

114 100

63 24.7 19.4 29.2

88 17.7 14.2 21.2



#34

2-Butanone

Concen: 0.160 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.013 min

Lab File: VL042975.D

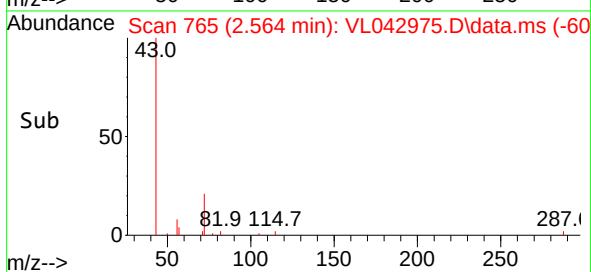
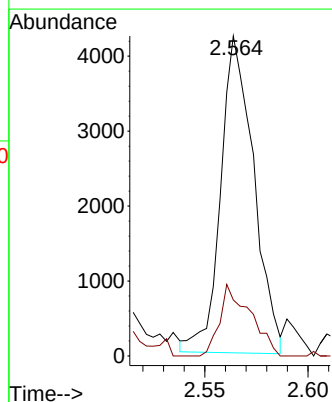
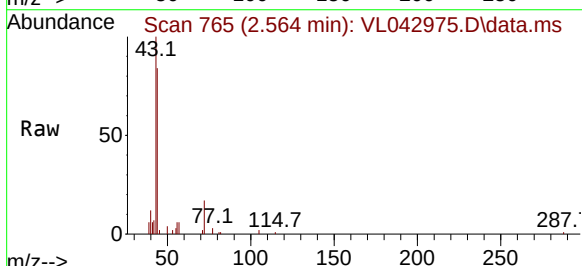
Acq: 23 Sep 2025 01:46

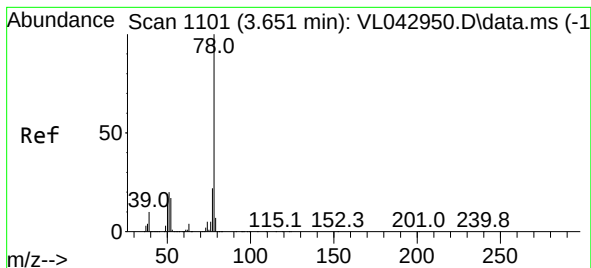
Tgt Ion: 43 Resp: 4708

Ion Ratio Lower Upper

43 100

72 20.8 17.7 26.5





#36

Benzene

Concen: 0.066 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VL042975.D

Acq: 23 Sep 2025 01:46

Instrument :

MSVOA_L

ClientSampleId :

141-1A-1DL

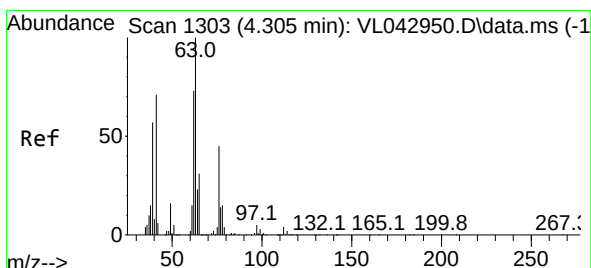
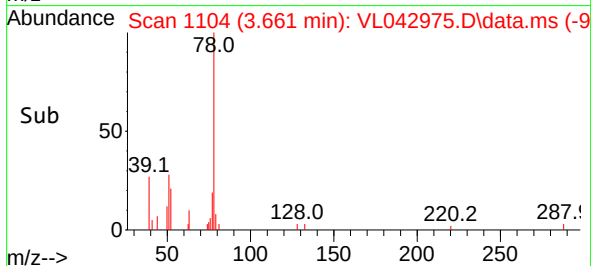
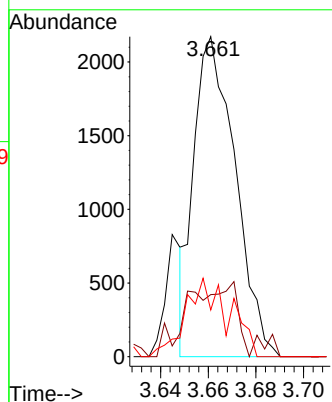
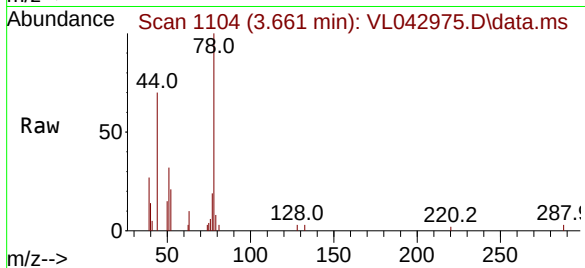
Tgt Ion: 78 Resp: 2611

Ion Ratio Lower Upper

78 100

77 19.4 17.8 26.6

50 14.6 15.0 22.4#



#39

1,2-Dichloropropane

Concen: 7.178 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL042975.D

Acq: 23 Sep 2025 01:46

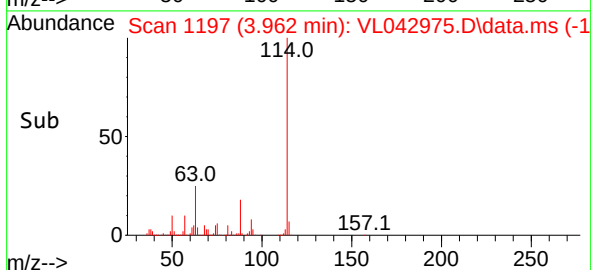
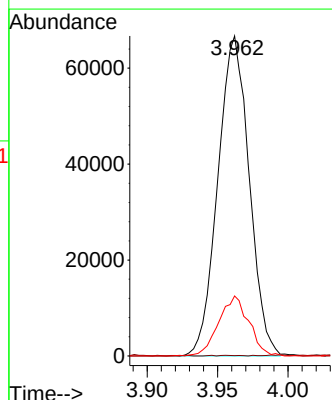
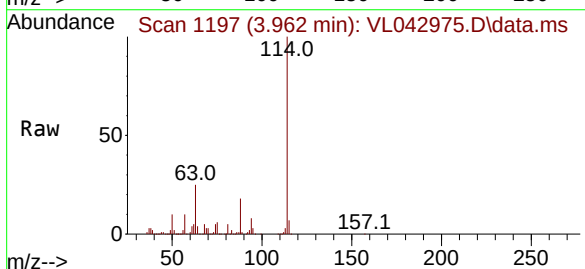
Tgt Ion: 63 Resp: 103352

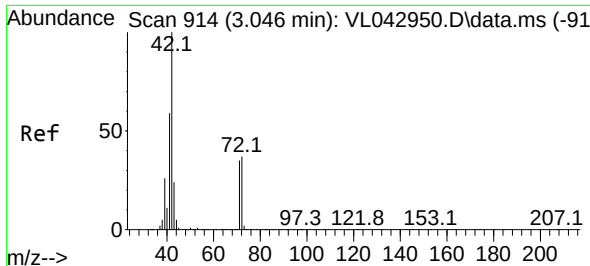
Ion Ratio Lower Upper

63 100

41 0.1 57.5 86.3#

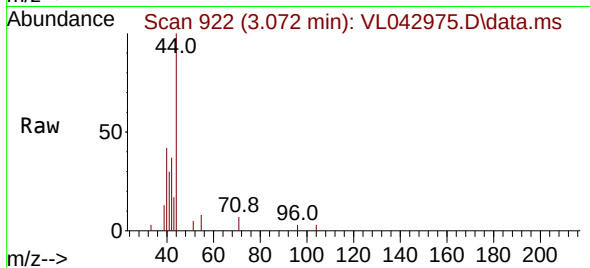
62 18.6 58.5 87.7#



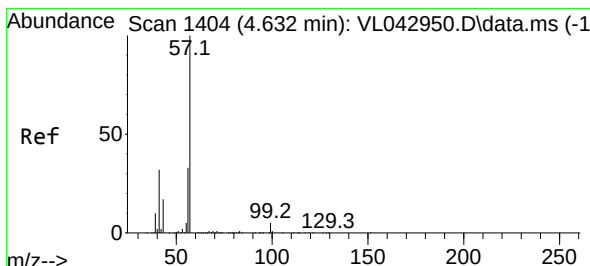
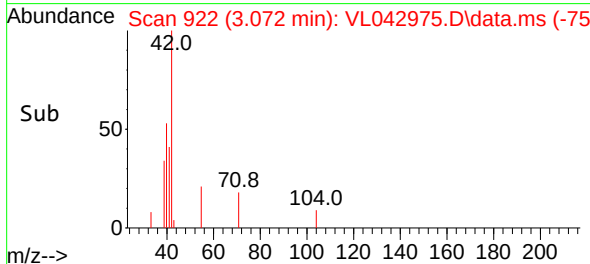
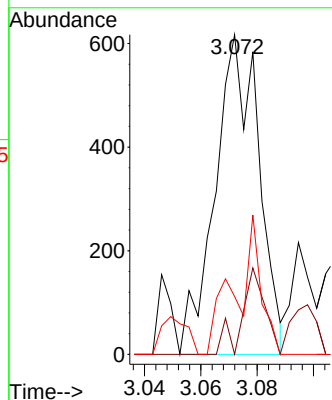


#41
Tetrahydrofuran
Concen: 0.039 ppbv
RT: 3.072 min Scan# 914
Delta R.T. 0.026 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

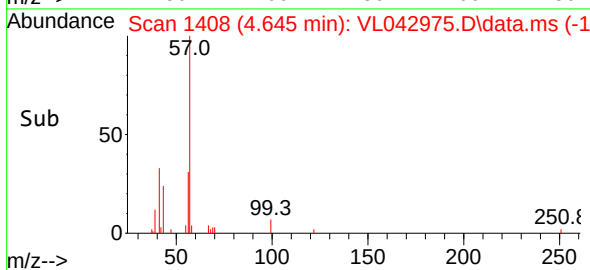
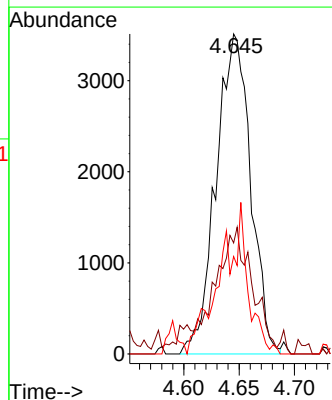
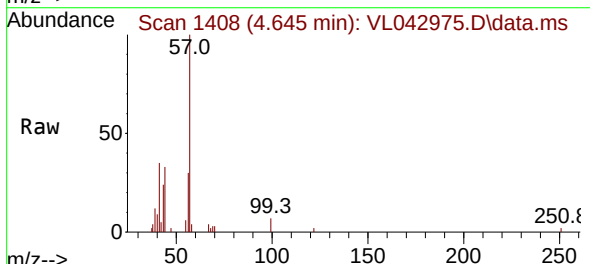


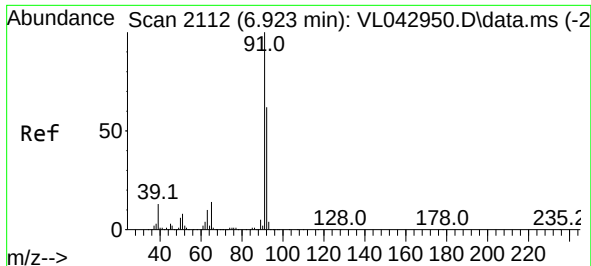
Tgt Ion: 42 Resp: 663
Ion Ratio Lower Upper
42 100
72 23.4 30.0 45.0#
71 32.6 28.8 43.2



#44
2,2,4-Trimethylpentane
Concen: 0.112 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.013 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 57 Resp: 7639
Ion Ratio Lower Upper
57 100
41 49.9 25.5 38.3#
56 40.5 25.8 38.8#

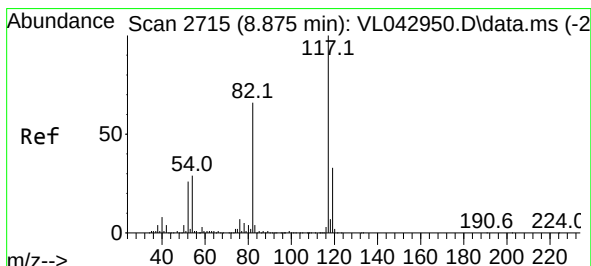
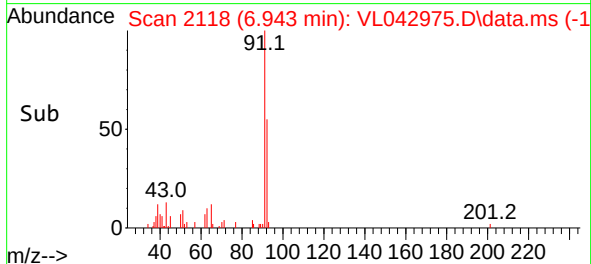
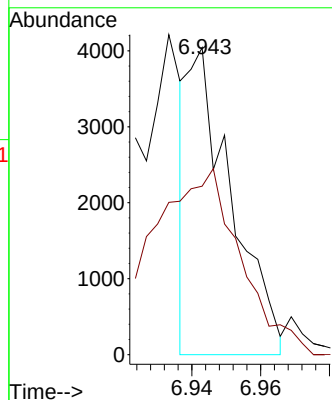
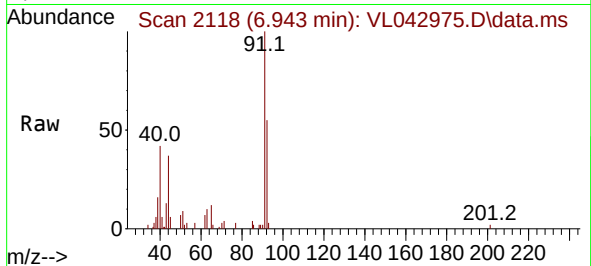




#53
Toluene
Concen: 0.076 ppbv
RT: 6.943 min Scan# 2112
Delta R.T. 0.019 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

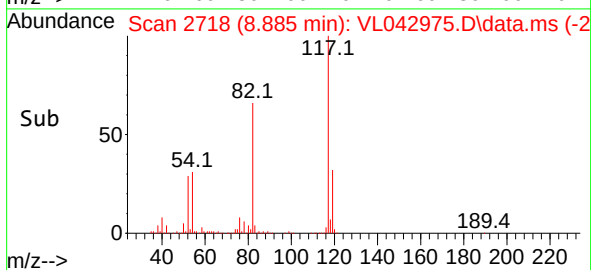
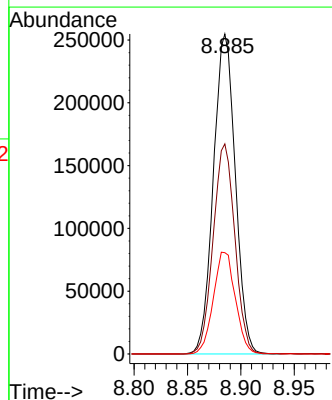
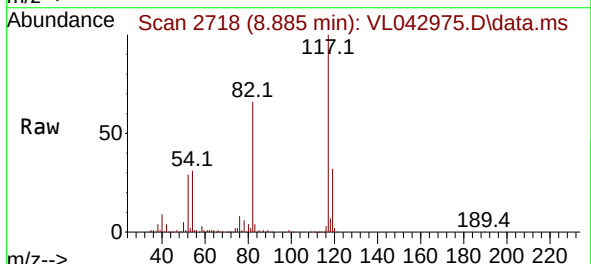
Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

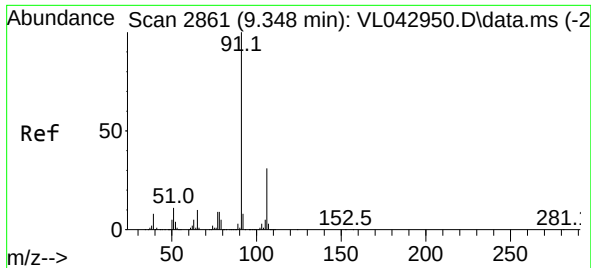
Tgt Ion: 91 Resp: 3546
Ion Ratio Lower Upper
91 100
92 132.5 48.2 72.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 117 Resp: 364182
Ion Ratio Lower Upper
117 100
82 65.0 52.8 79.2
119 32.0 26.5 39.7

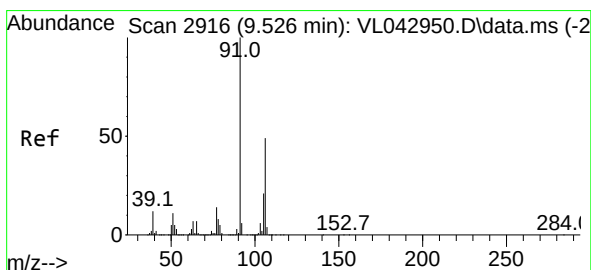
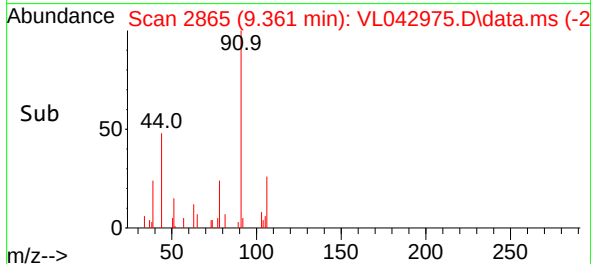
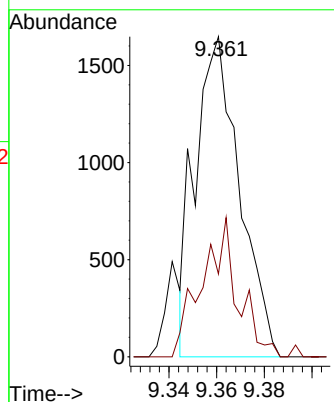
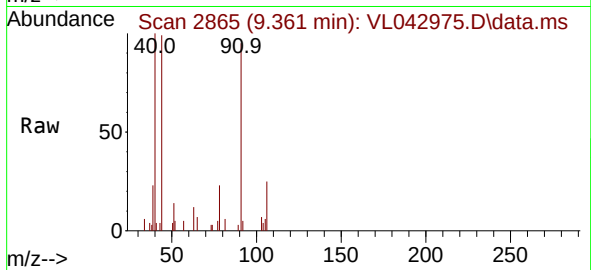




#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 9.361 min Scan# 2132
Delta R.T. 0.013 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

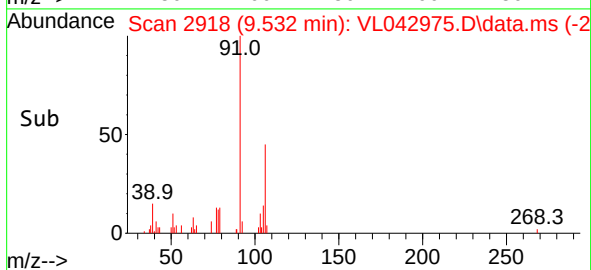
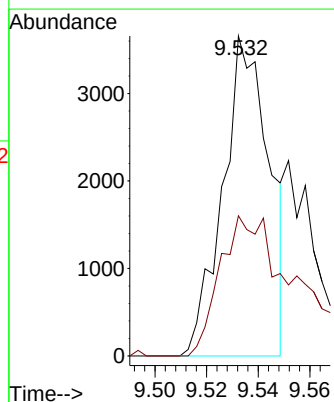
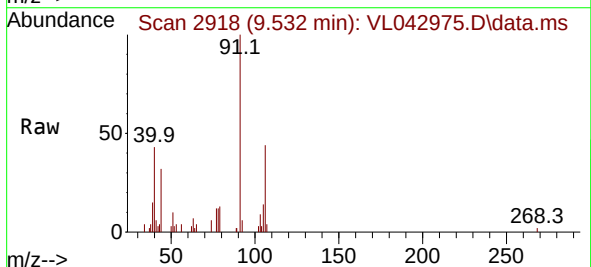
Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

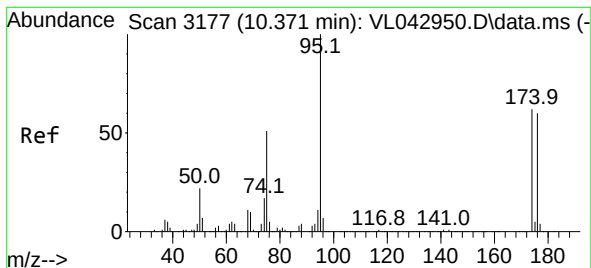
Tgt Ion: 91 Resp: 2132
Ion Ratio Lower Upper
91 100
106 25.8 24.6 37.0



#59
m/p-Xylene
Concen: 0.096 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.007 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion: 91 Resp: 4541
Ion Ratio Lower Upper
91 100
106 68.9 0.0 0.0#

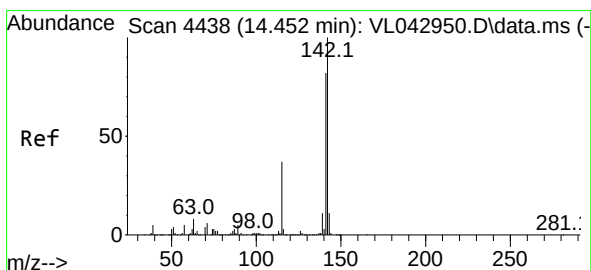
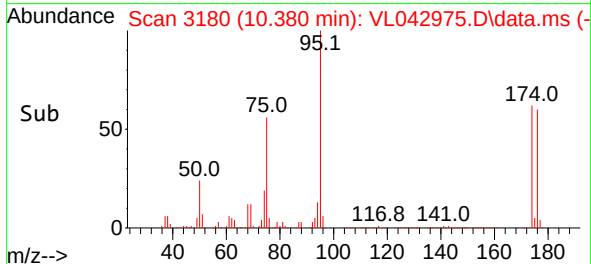
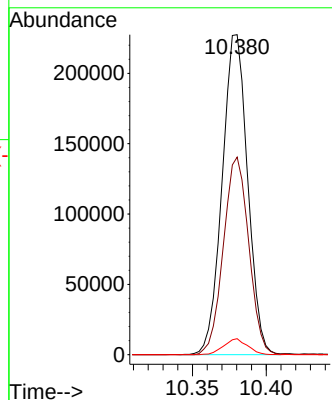
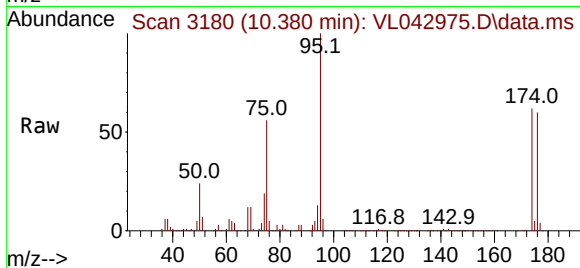




#68
1-Bromo-4-Fluorobenzene
Concen: 10.065 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Instrument :
MSVOA_L
ClientSampleId :
141-1A-1DL

Tgt Ion: 95 Resp: 273620
Ion Ratio Lower Upper
95 100
174 61.6 51.4 77.2
175 4.7 4.0 6.0



#80
Naphthalene,2-methyl-
Concen: 0.092 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.016 min
Lab File: VL042975.D
Acq: 23 Sep 2025 01:46

Tgt Ion:142 Resp: 1323
Ion Ratio Lower Upper
142 100
141 79.4 65.1 97.7
115 37.8 28.9 43.3

