

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042981.D
 Acq On : 23 Sep 2025 05:19
 Operator : SY/MD
 Sample : Q3132-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-1A-2DL

Quant Time: Sep 24 01:17:07 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)

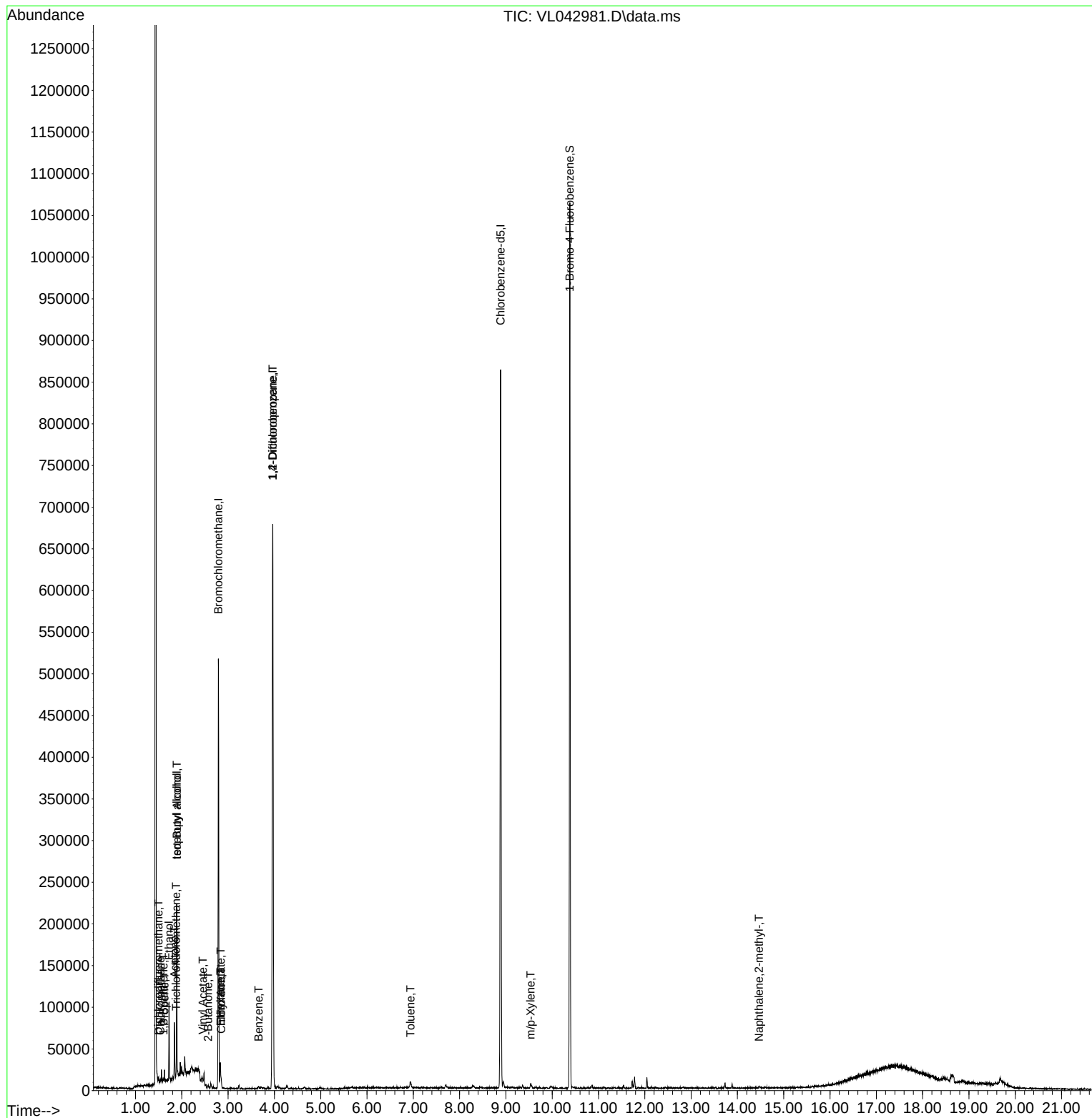
Internal Standards						
1) Bromochloromethane	2.790	49	142477	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408754	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	352010	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	267858	10.194	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	963	0.050	ppbv #	79
4) Chloromethane	1.535	50	609	0.070	ppbv	96
9) Propene	1.625	41	1277	0.123	ppbv	94
11) Trichlorofluoromethane	1.881	101	741	0.040	ppbv	84
13) Ethanol	1.722	45	35047	34.770	ppbv	93
15) Acetone	1.839	43	29193	1.573	ppbv	92
16) 1,3-Butadiene	1.602	39	284	0.032	ppbv #	11
17) tert-Butyl alcohol	1.891	59	3263	0.160	ppbv	98
19) Isopropyl Alcohol	1.891	45	88410	7.925	ppbv #	39
20) Methylene Chloride	2.065	84	2489	Below Cal	#	90
23) Vinyl Acetate	2.454	43	1980	0.075	ppbv #	54
25) Ethyl Acetate	2.839	43	5384	0.115	ppbv #	75
26) Hexane	2.832	57	6872	0.321	ppbv #	55
29) Chloroform	2.852	83	2619	0.094	ppbv #	83
34) 2-Butanone	2.567	43	1870	0.065	ppbv	99
36) Benzene	3.661	78	1268	0.033	ppbv #	83
39) 1,2-Dichloropropane	3.962	63	103805	7.408	ppbv #	25
53) Toluene	6.940	91	2995	0.066	ppbv #	32
59) m/p-Xylene	9.532	91	2086	0.046	ppbv #	100
80) Naphthalene,2-methyl-	14.465	142	1200	0.086	ppbv	89

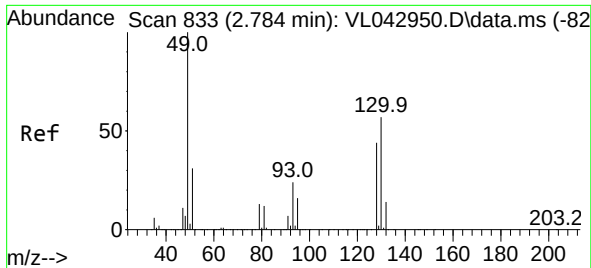
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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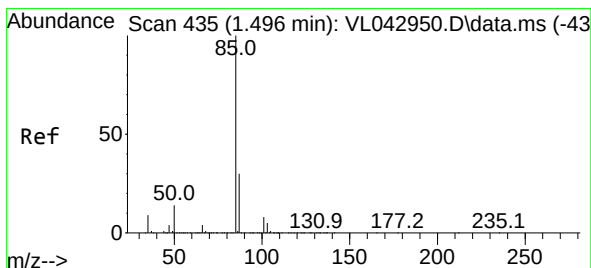
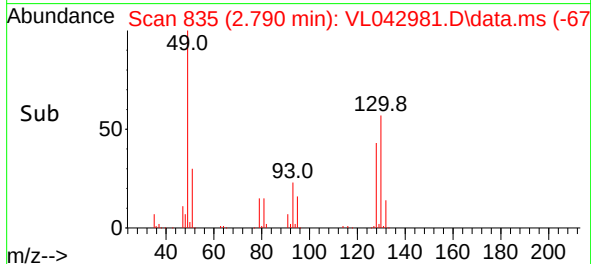
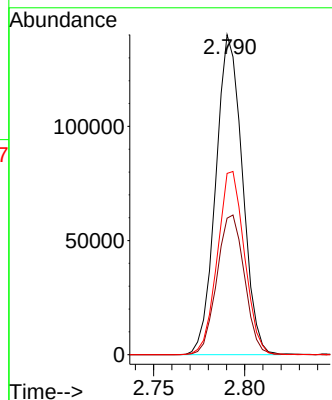
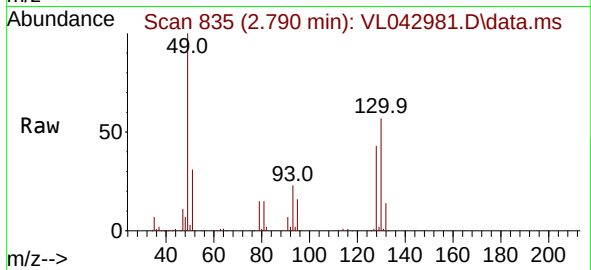




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

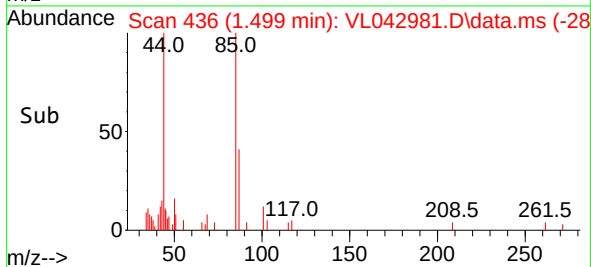
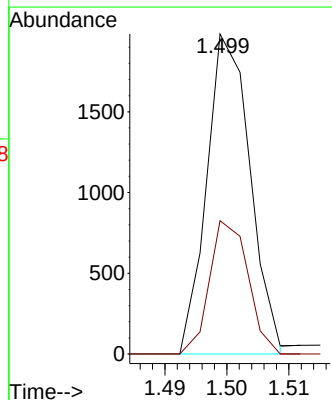
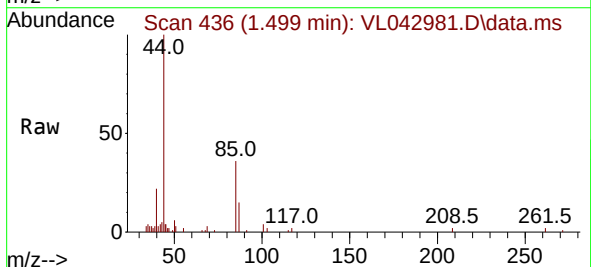
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2DL

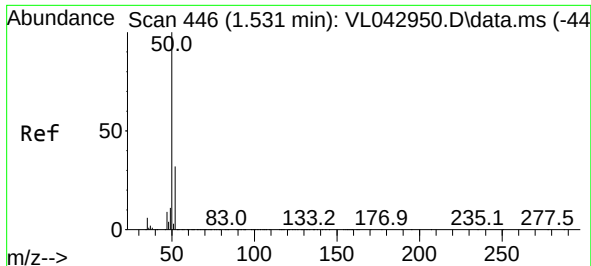
Tgt Ion: 49 Resp: 142477
Ion Ratio Lower Upper
49 100
128 45.2 22.9 68.8
130 58.3 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion: 85 Resp: 963
Ion Ratio Lower Upper
85 100
87 41.7 24.3 36.5#

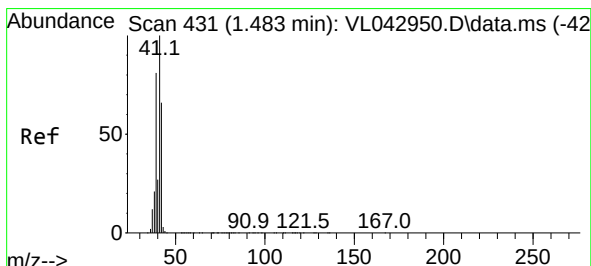
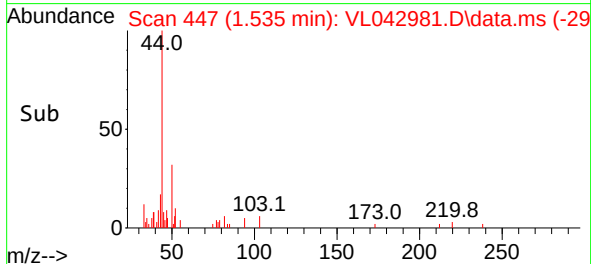
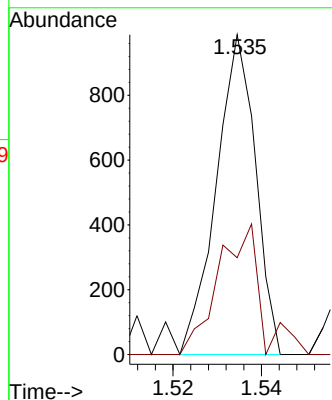
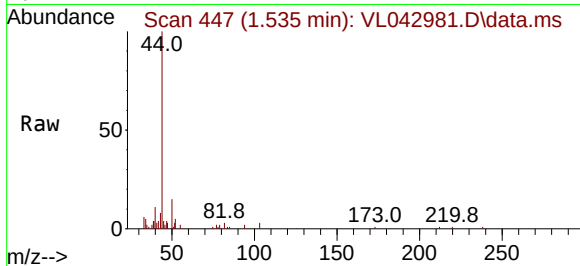




#4
Chloromethane
Concen: 0.070 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

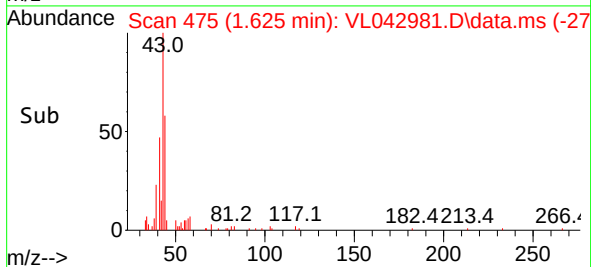
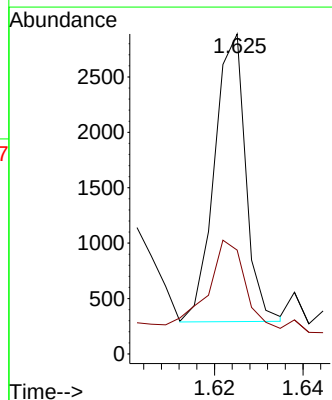
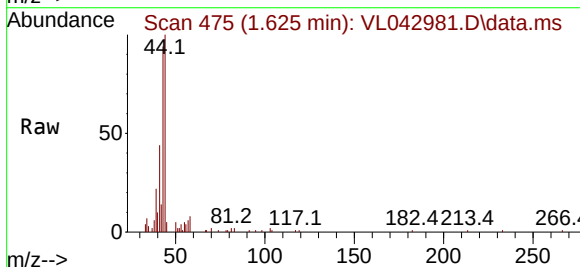
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2DL

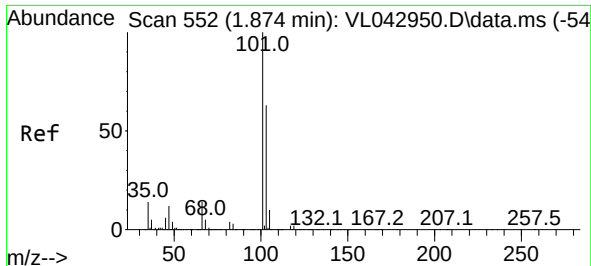
Tgt Ion: 50 Resp: 609
Ion Ratio Lower Upper
50 100
52 30.3 25.9 38.9



#9
Propene
Concen: 0.123 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.142 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion: 41 Resp: 1277
Ion Ratio Lower Upper
41 100
42 77.1 57.4 86.2

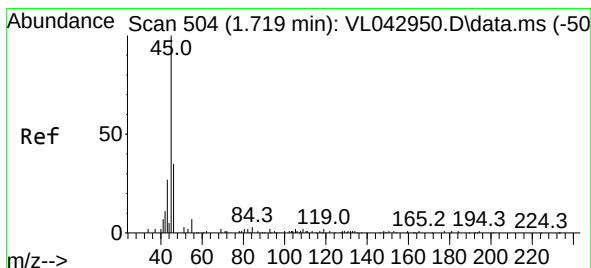
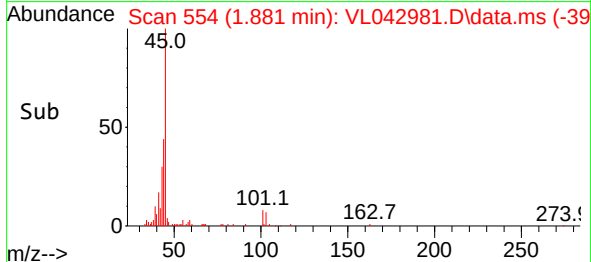
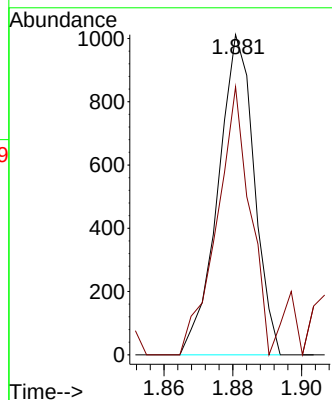
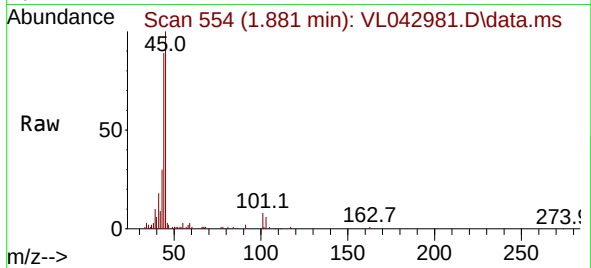




#11
 Trichlorofluoromethane
 Concen: 0.040 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL042981.D
 Acq: 23 Sep 2025 05:19

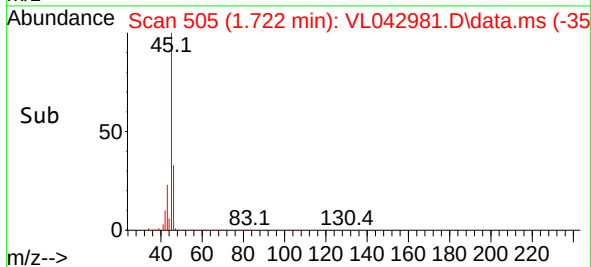
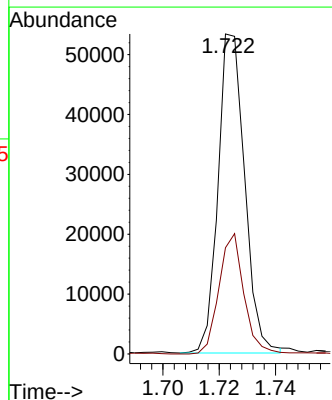
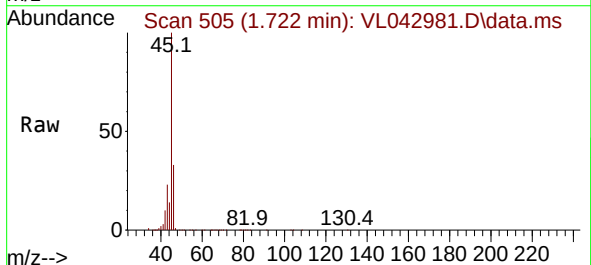
Instrument :
 MSVOA_1
 ClientSampleId :
 151-1A-2DL

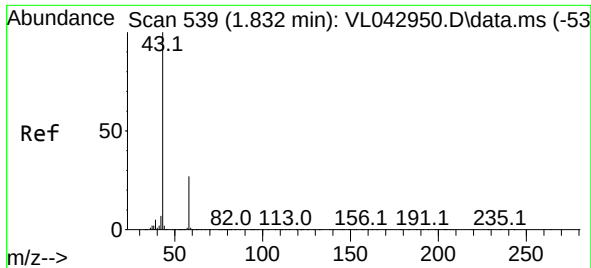
Tgt Ion:101 Resp: 741
 Ion Ratio Lower Upper
 101 100
 103 75.0 50.1 75.1



#13
 Ethanol
 Concen: 34.770 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042981.D
 Acq: 23 Sep 2025 05:19

Tgt Ion: 45 Resp: 35047
 Ion Ratio Lower Upper
 45 100
 46 36.1 16.2 64.6





#15

Acetone

Concen: 1.573 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Instrument :

MSVOA_L

ClientSampleId :

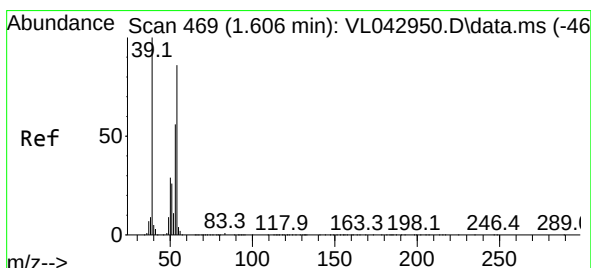
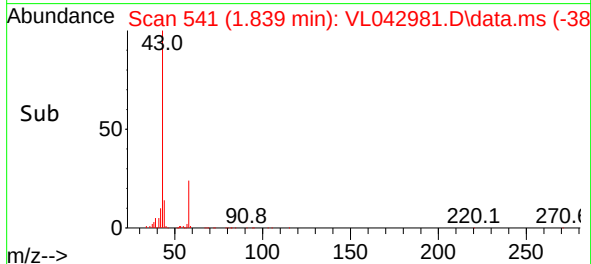
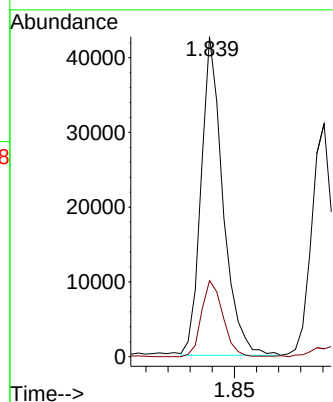
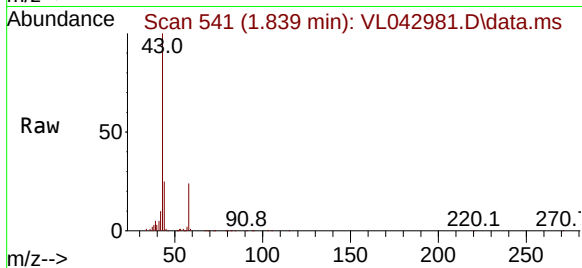
151-1A-2DL

Tgt Ion: 43 Resp: 29193

Ion Ratio Lower Upper

43 100

58 23.7 22.3 33.5



#16

1,3-Butadiene

Concen: 0.032 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042981.D

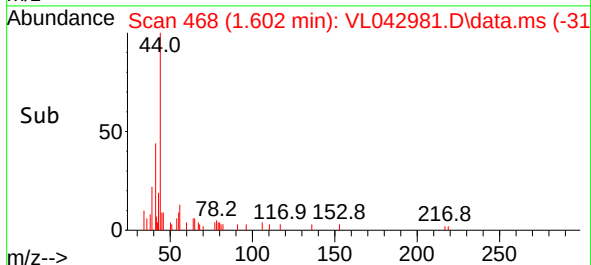
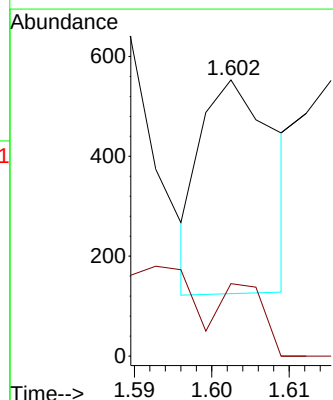
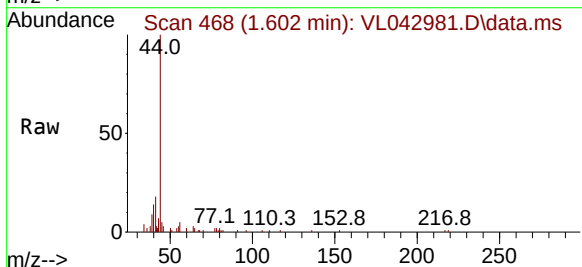
Acq: 23 Sep 2025 05:19

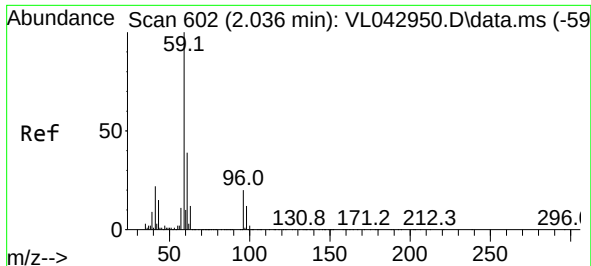
Tgt Ion: 39 Resp: 284

Ion Ratio Lower Upper

39 100

54 0.0 60.8 91.2#





#17

tert-Butyl alcohol

Concen: 0.160 ppbv

RT: 1.891 min Scan# 51

Delta R.T. -0.146 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Instrument :

MSVOA_L

ClientSampleId :

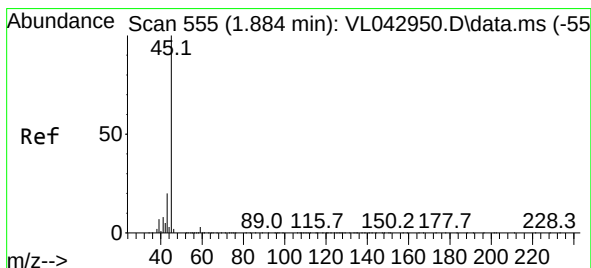
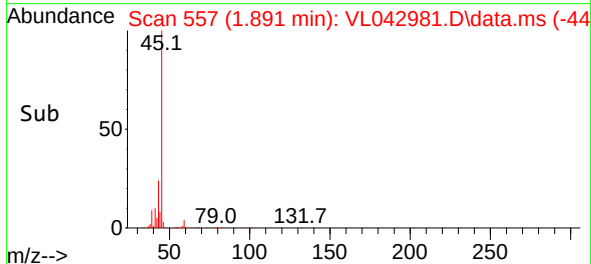
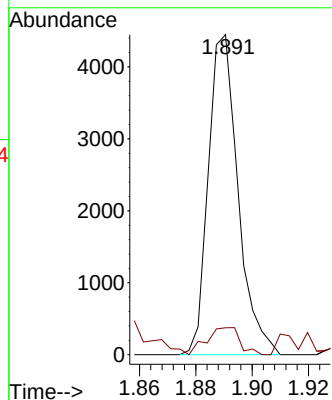
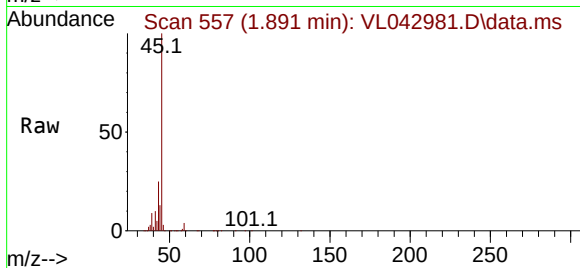
151-1A-2DL

Tgt Ion: 59 Resp: 3263

Ion Ratio Lower Upper

59 100

57 9.9 8.6 12.8



#19

Isopropyl Alcohol

Concen: 7.925 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042981.D

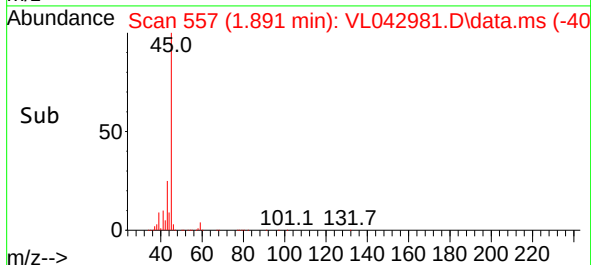
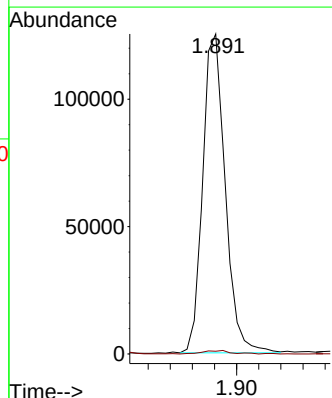
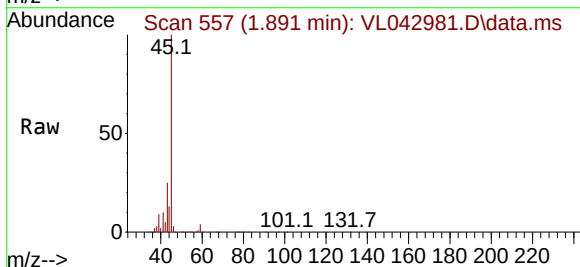
Acq: 23 Sep 2025 05:19

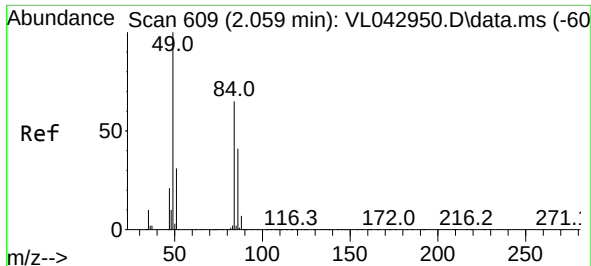
Tgt Ion: 45 Resp: 88410

Ion Ratio Lower Upper

45 100

58 1.5 31.0 46.6#

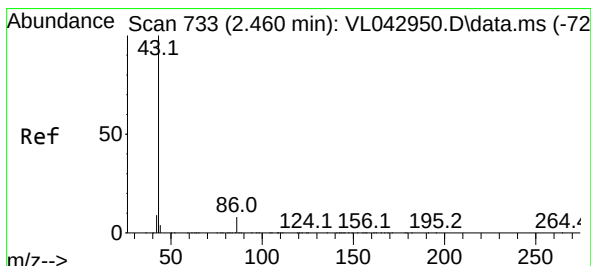
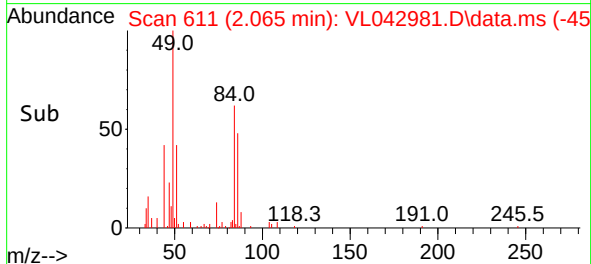
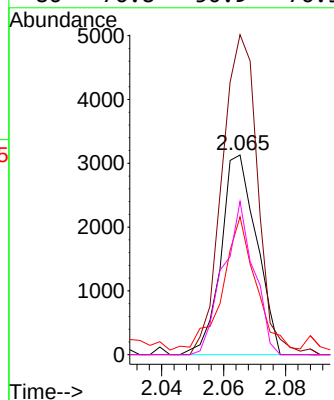
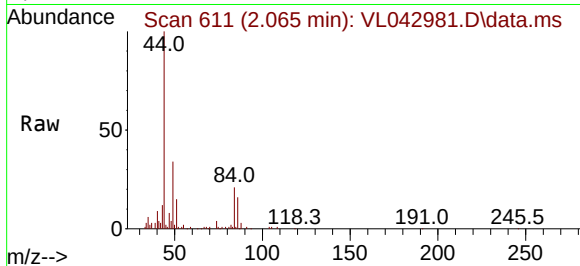




#20
Methylene Chloride
Concen: Below Cal
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

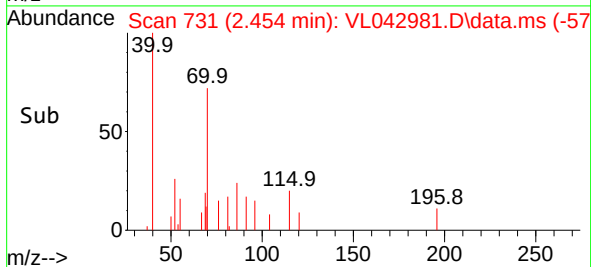
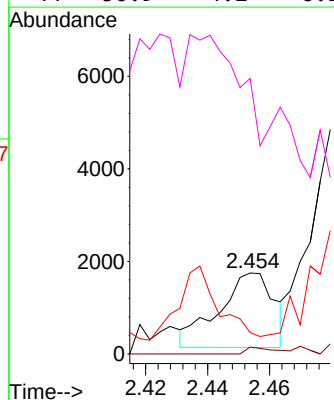
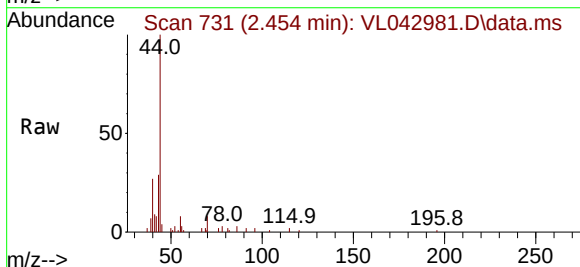
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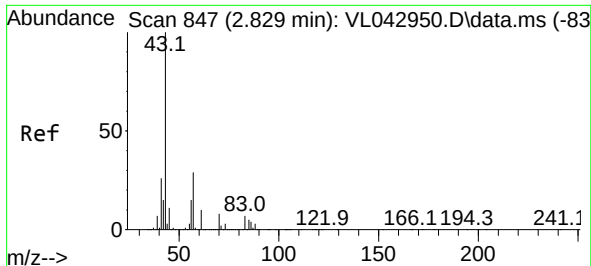
Tgt Ion: 84 Resp: 2489
Ion Ratio Lower Upper
84 100
49 160.2 124.1 186.1
51 64.8 39.8 59.8#
86 76.8 50.9 76.3#



#23
Vinyl Acetate
Concen: 0.075 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion: 43 Resp: 1980
Ion Ratio Lower Upper
43 100
86 12.2 6.2 9.2#
42 0.8 7.4 11.0#
44 50.9 4.2 6.2#





#25

Ethyl Acetate

Concen: 0.115 ppbv

RT: 2.839 min Scan# 847

Delta R.T. 0.010 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Instrument :

MSVOA_1

ClientSampleId :

151-1A-2DL

Tgt Ion: 43 Resp: 5384

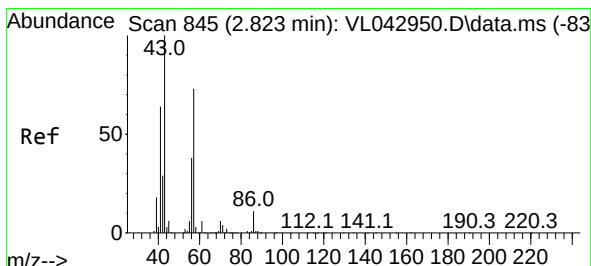
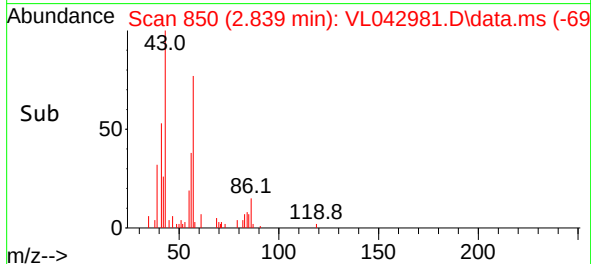
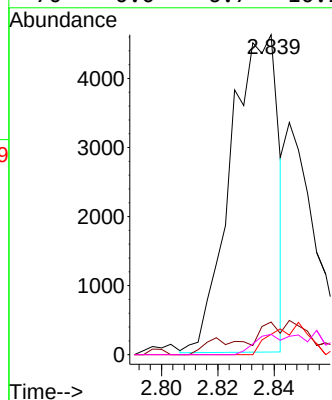
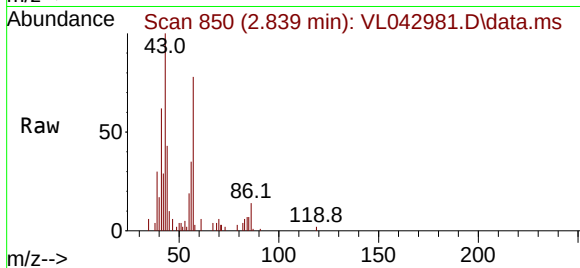
Ion Ratio Lower Upper

43 100

45 0.0 7.7 11.5#

61 0.0 7.1 10.7#

70 0.0 6.7 10.1#



#26

Hexane

Concen: 0.321 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.010 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Tgt Ion: 57 Resp: 6872

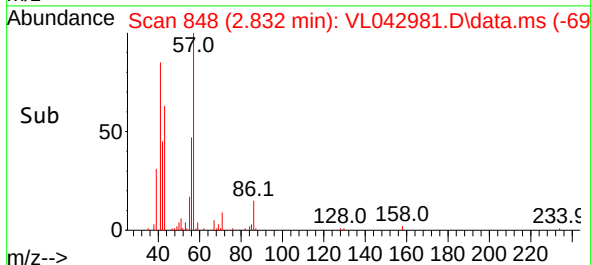
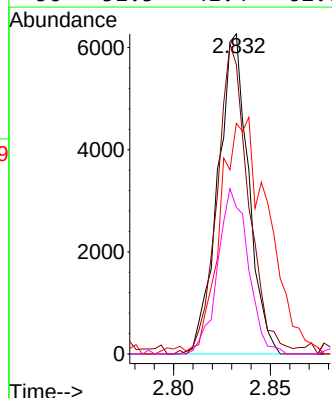
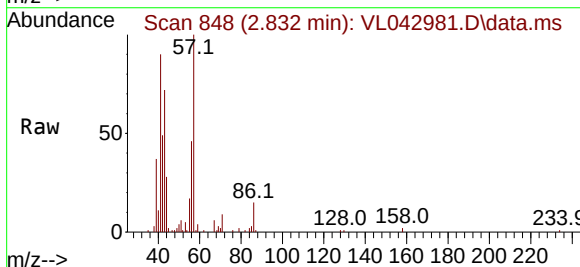
Ion Ratio Lower Upper

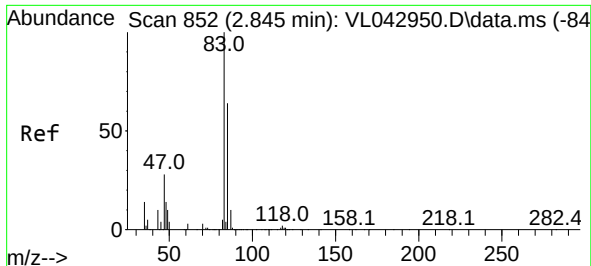
57 100

41 104.6 71.7 107.5

43 117.4 180.8 271.2#

56 51.5 41.4 62.0





#29

Chloroform

Concen: 0.094 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Instrument :

MSVOA_L

ClientSampleId :

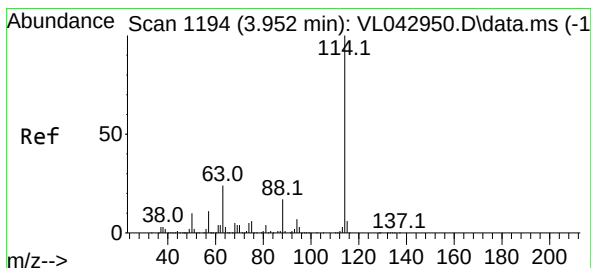
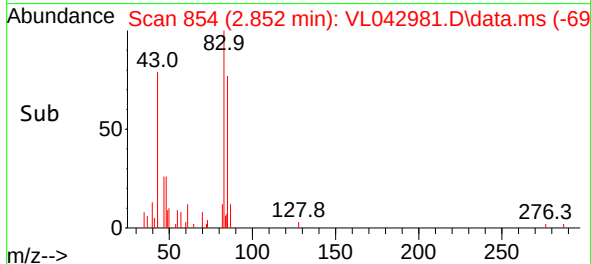
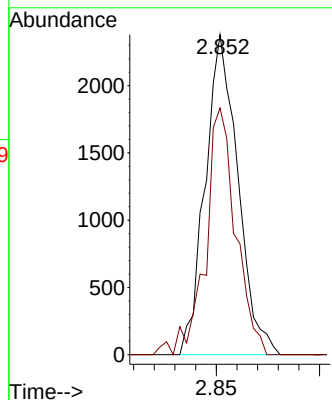
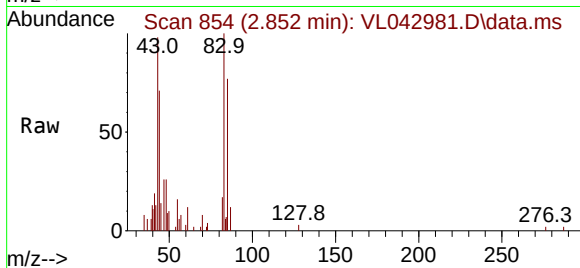
151-1A-2DL

Tgt Ion: 83 Resp: 2619

Ion Ratio Lower Upper

83 100

85 77.0 51.2 76.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

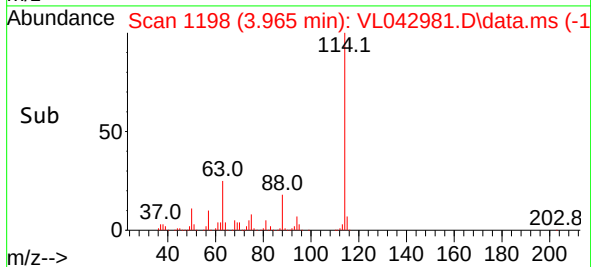
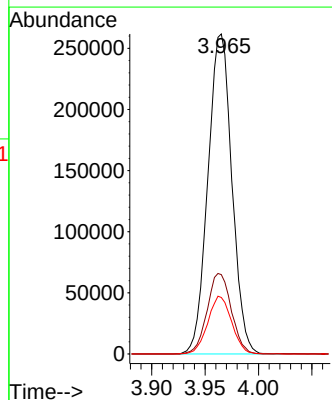
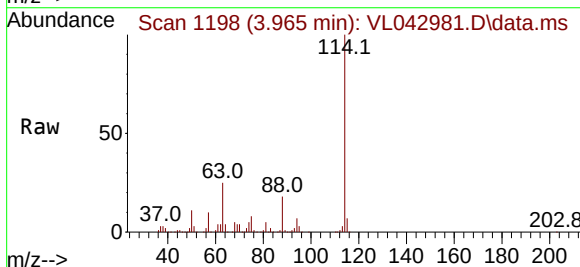
Tgt Ion: 114 Resp: 408754

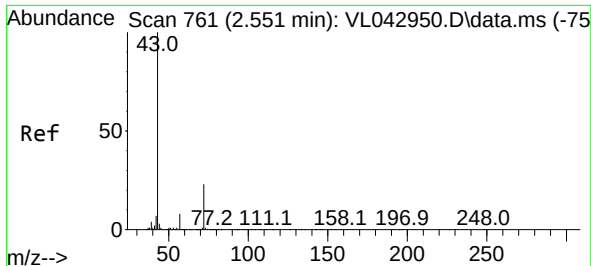
Ion Ratio Lower Upper

114 100

63 25.4 19.4 29.2

88 18.0 14.2 21.2

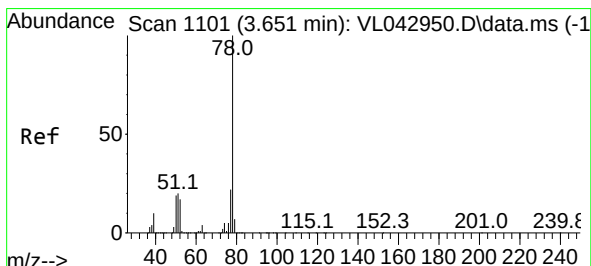
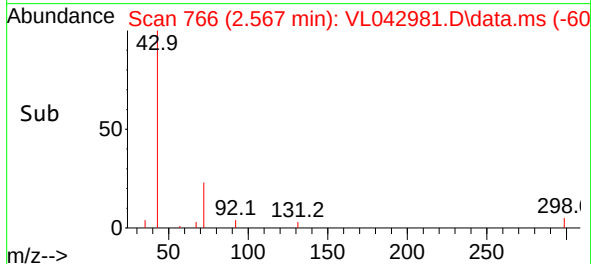
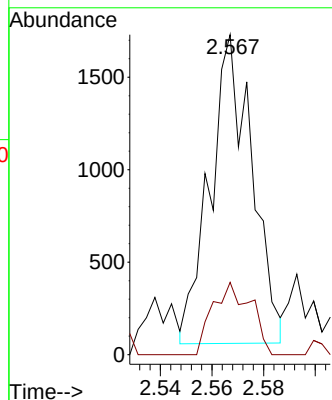
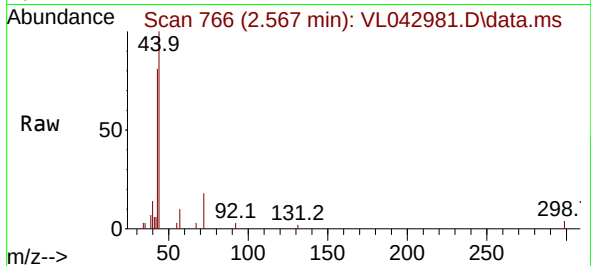




#34
2-Butanone
Concen: 0.065 ppbv
RT: 2.567 min Scan# 761
Delta R.T. 0.016 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

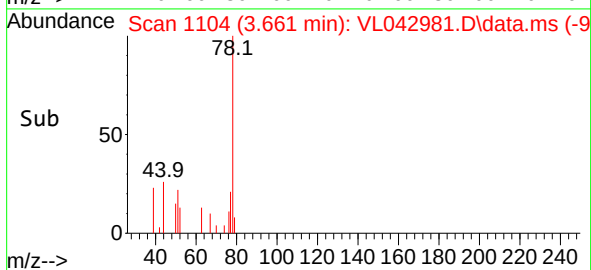
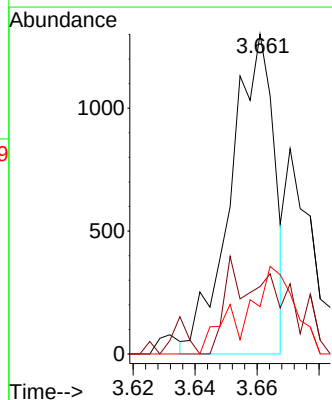
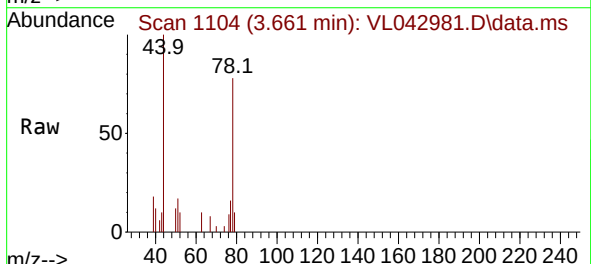
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2DL

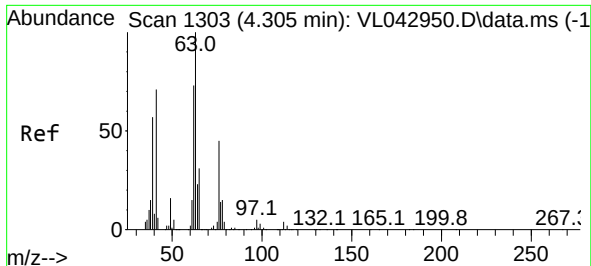
Tgt Ion: 43 Resp: 1870
Ion Ratio Lower Upper
43 100
72 21.4 17.7 26.5



#36
Benzene
Concen: 0.033 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion: 78 Resp: 1268
Ion Ratio Lower Upper
78 100
77 9.8 17.8 26.6#
50 15.4 15.0 22.4





#39

1,2-Dichloropropane

Concen: 7.408 ppbv

RT: 3.962 min Scan# 1117

Delta R.T. -0.343 min

Lab File: VL042981.D

Acq: 23 Sep 2025 05:19

Instrument :

MSVOA_L

ClientSampleId :

151-1A-2DL

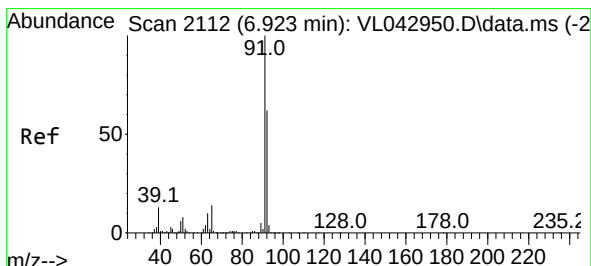
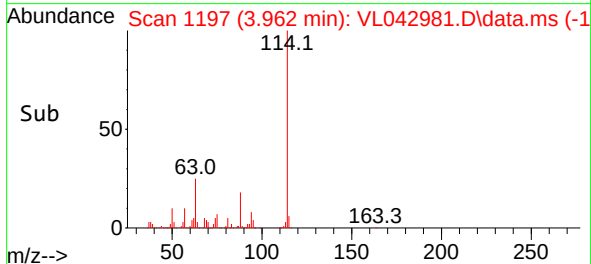
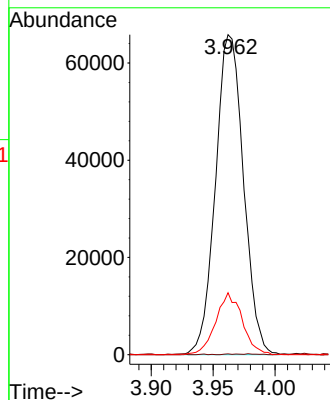
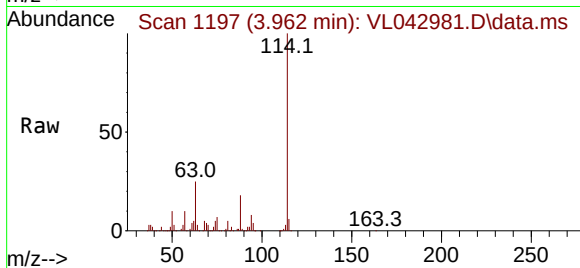
Tgt Ion: 63 Resp: 103805

Ion Ratio Lower Upper

63 100

41 0.1 57.5 86.3#

62 19.4 58.5 87.7#



#53

Toluene

Concen: 0.066 ppbv

RT: 6.940 min Scan# 2117

Delta R.T. 0.016 min

Lab File: VL042981.D

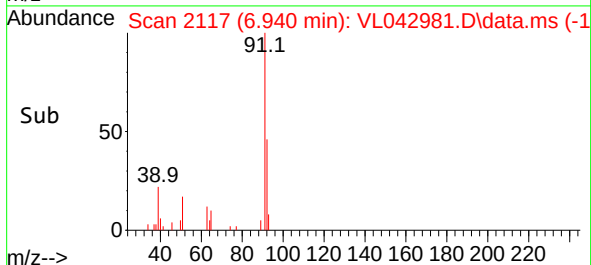
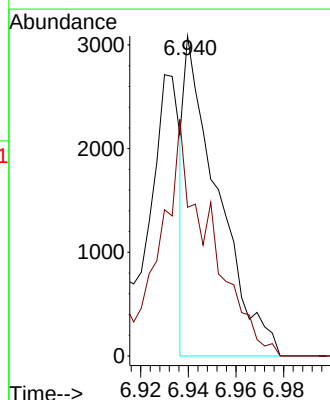
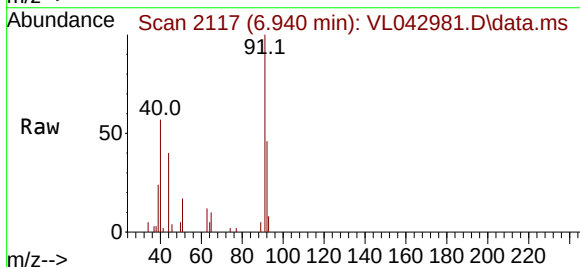
Acq: 23 Sep 2025 05:19

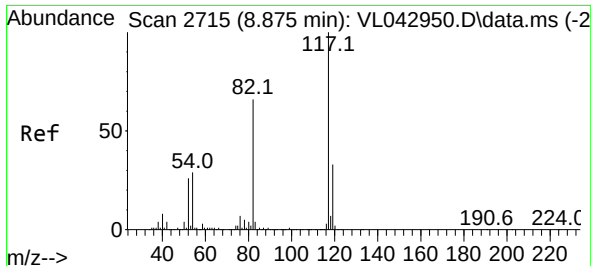
Tgt Ion: 91 Resp: 2995

Ion Ratio Lower Upper

91 100

92 111.9 48.2 72.2#

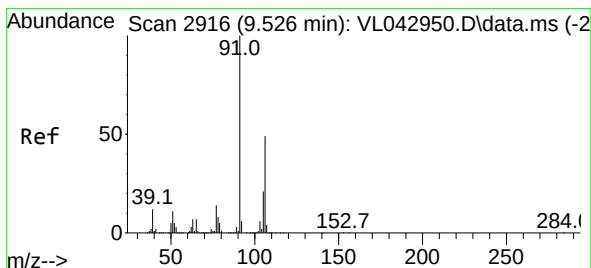
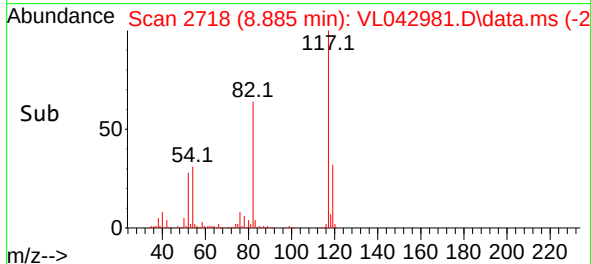
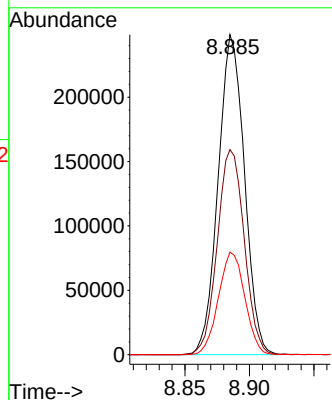
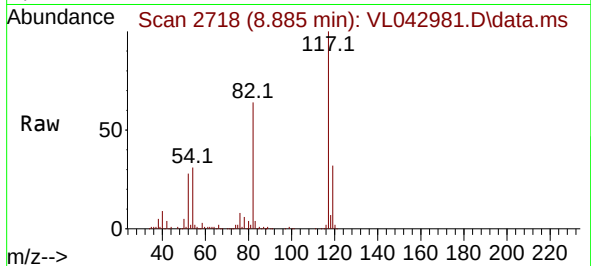




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

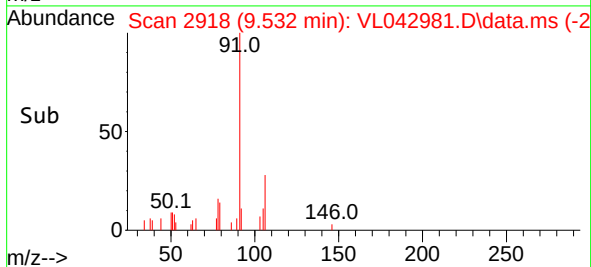
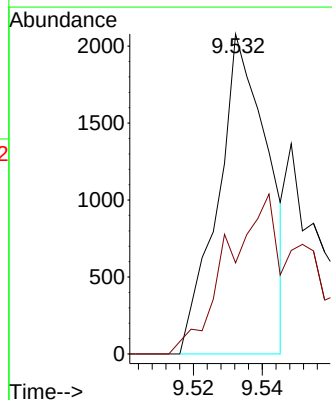
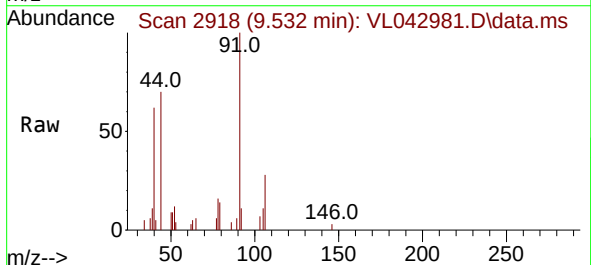
Instrument :
MSVOA_L
ClientSampleId :
151-1A-2DL

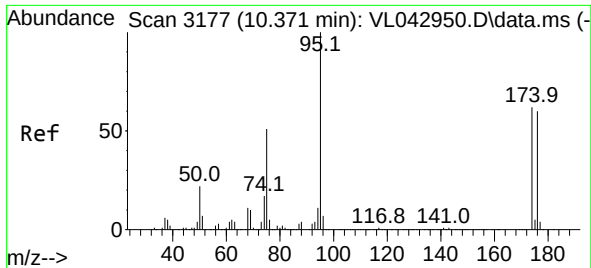
Tgt Ion:117 Resp: 352010
Ion Ratio Lower Upper
117 100
82 65.7 52.8 79.2
119 32.2 26.5 39.7



#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.006 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion: 91 Resp: 2086
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

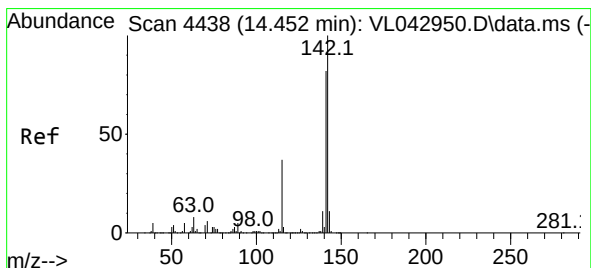
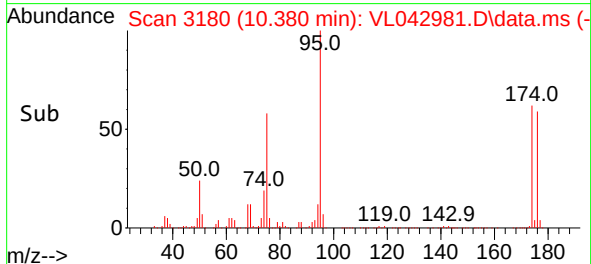
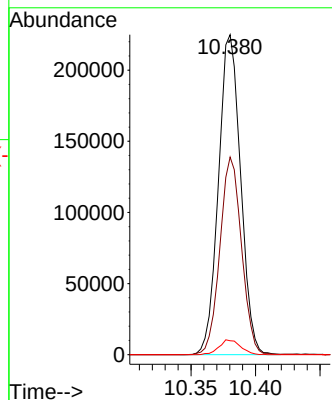
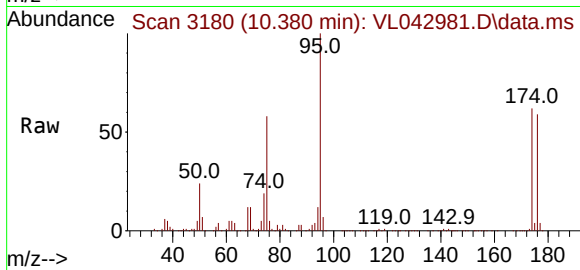




#68
1-Bromo-4-Fluorobenzene
Concen: 10.194 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Instrument :
MSVOA_L
ClientSampleId :
151-1A-2DL

Tgt Ion: 95 Resp: 267858
Ion Ratio Lower Upper
95 100
174 60.4 51.4 77.2
175 4.5 4.0 6.0



#80
Naphthalene,2-methyl-
Concen: 0.086 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.013 min
Lab File: VL042981.D
Acq: 23 Sep 2025 05:19

Tgt Ion:142 Resp: 1200
Ion Ratio Lower Upper
142 100
141 72.5 65.1 97.7
115 28.9 28.9 43.3

