

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043169.D
 Acq On : 06 Nov 2025 15:59
 Operator : SY/MD
 Sample : Q3556-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-SG-2DL

Quant Time: Nov 07 00:24:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	110430	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	313872	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	260123	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	201260	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	792	0.050	ppbv	95
4) Chloromethane	1.532	50	199	0.032	ppbv #	70
9) Propene	1.486	41	718	0.095	ppbv #	75
13) Ethanol	1.722	45	6455	2.316	ppbv	96
15) Acetone	1.836	43	23179	1.557	ppbv	91
16) 1,3-Butadiene	1.606	39	862	0.122	ppbv #	13
17) tert-Butyl alcohol	2.043	59	833	0.041	ppbv #	79
19) Isopropyl Alcohol	1.722	45	6455	0.696	ppbv #	1
20) Methylene Chloride	2.062	84	1799	0.306	ppbv	85
23) Vinyl Acetate	2.454	43	842	0.039	ppbv #	1
26) Hexane	2.829	57	580	0.034	ppbv #	1
29) Chloroform	2.849	83	3542	0.144	ppbv #	78
30) Cyclohexane	3.949	84	1188	0.080	ppbv #	5
34) 2-Butanone	2.564	43	4037	0.191	ppbv	97
36) Benzene	3.658	78	8773	0.297	ppbv #	94
39) 1,2-Dichloropropane	3.959	63	79073	7.317	ppbv #	26
62) Isopropylbenzene	10.536	105	3804	0.060	ppbv #	72

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

Quant Time: Nov 07 00:24:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

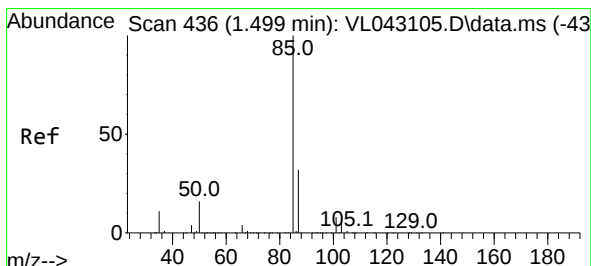
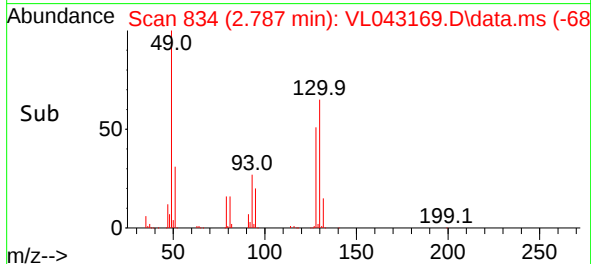
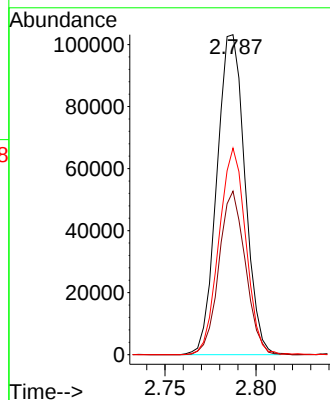
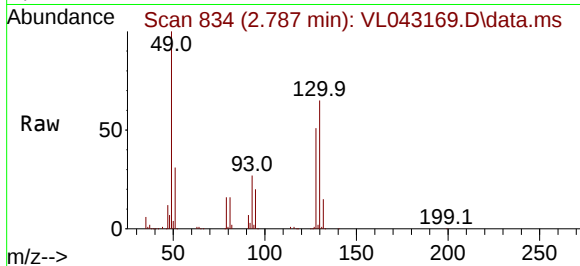




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

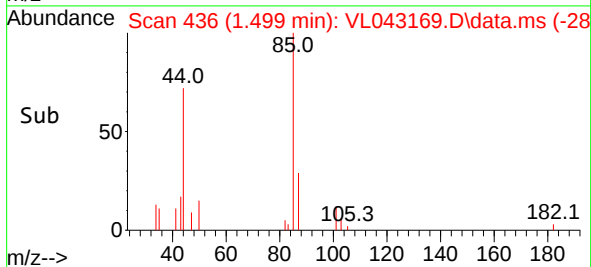
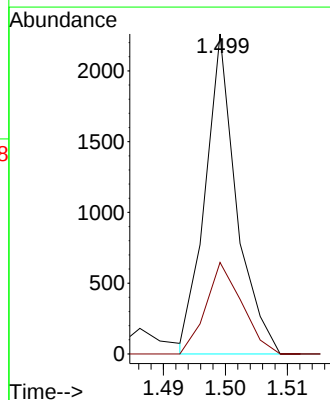
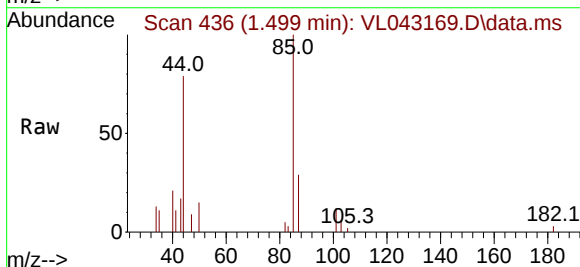
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2DL

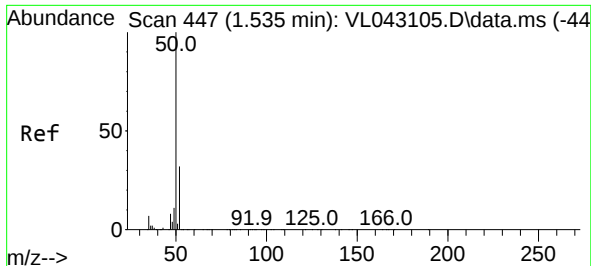
Tgt Ion: 49 Resp: 110430
Ion Ratio Lower Upper
49 100
128 48.2 24.4 73.4
130 61.8 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion: 85 Resp: 792
Ion Ratio Lower Upper
85 100
87 28.6 25.3 37.9

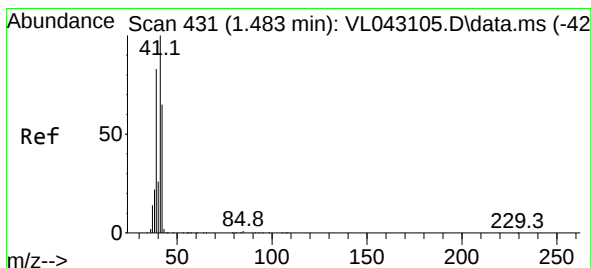
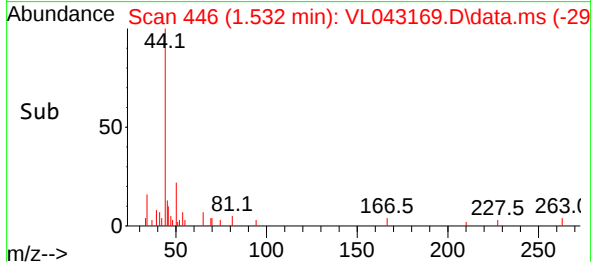
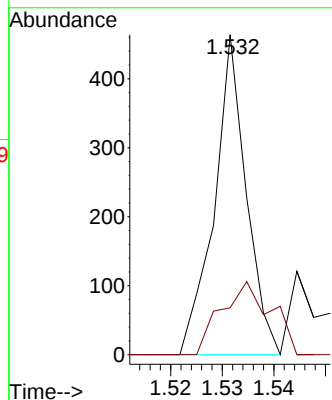
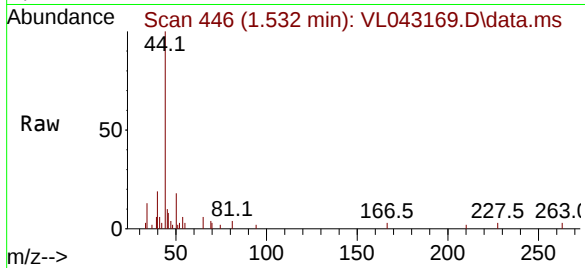




#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.532 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

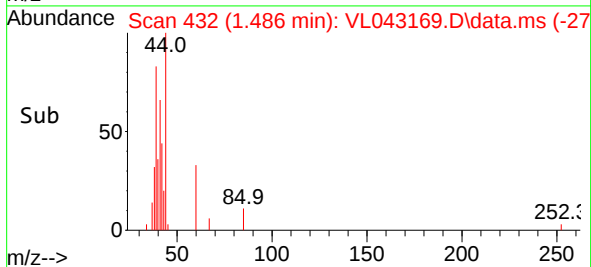
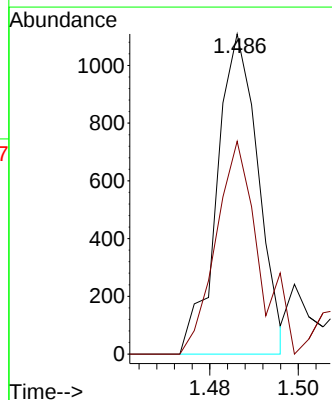
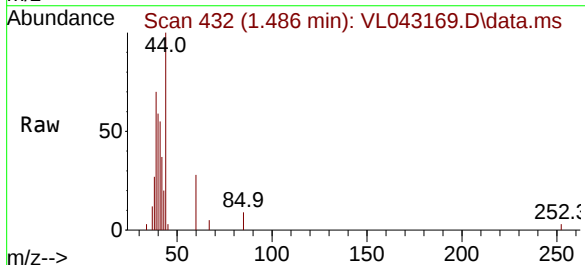
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2DL

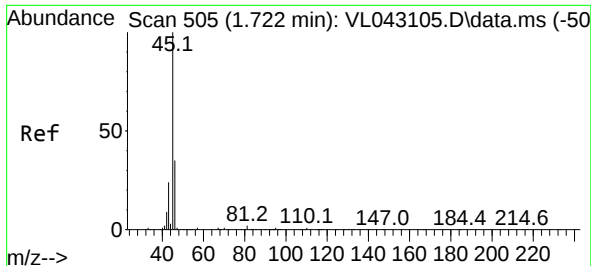
Tgt Ion: 50 Resp: 199
Ion Ratio Lower Upper
50 100
52 14.7 25.2 37.8#



#9
Propene
Concen: 0.095 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion: 41 Resp: 718
Ion Ratio Lower Upper
41 100
42 88.9 55.1 82.7#

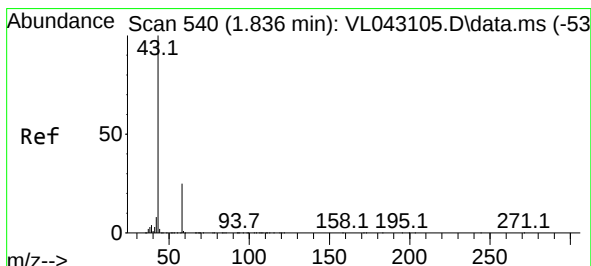
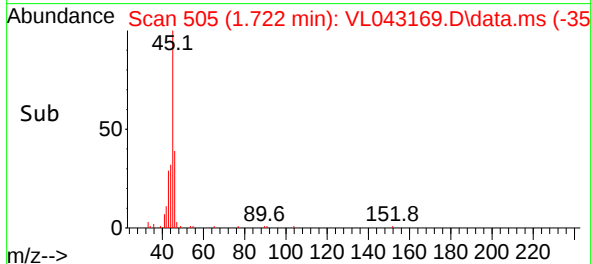
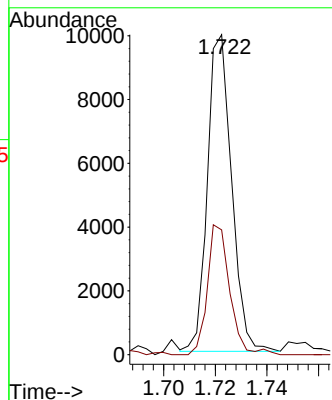
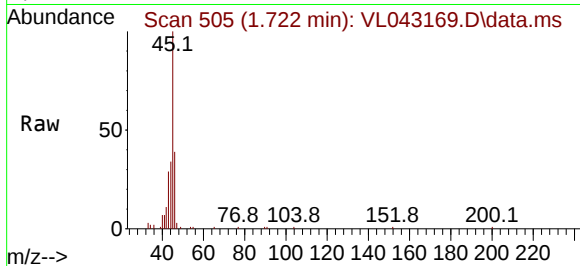




#13
Ethanol
Concen: 2.316 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

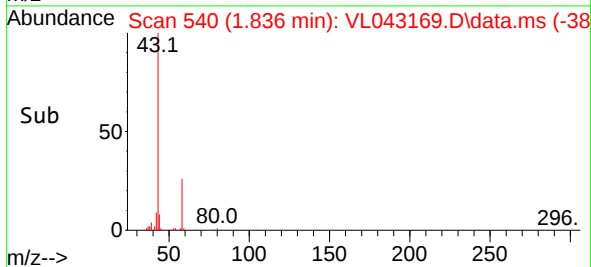
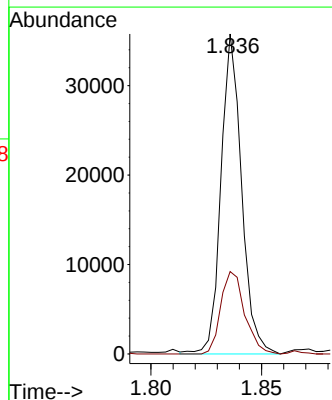
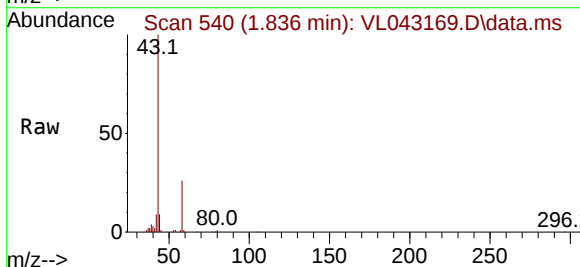
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2DL

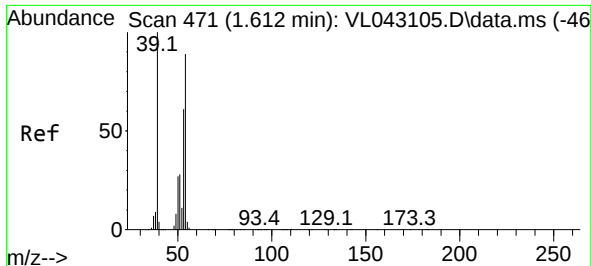
Tgt Ion: 45 Resp: 6455
Ion Ratio Lower Upper
45 100
46 39.1 14.7 58.9



#15
Acetone
Concen: 1.557 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion: 43 Resp: 23179
Ion Ratio Lower Upper
43 100
58 30.5 20.8 31.2





#16

1,3-Butadiene

Concen: 0.122 ppbv

RT: 1.606 min Scan# 4

Delta R.T. -0.006 min

Lab File: VL043169.D

Acq: 06 Nov 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

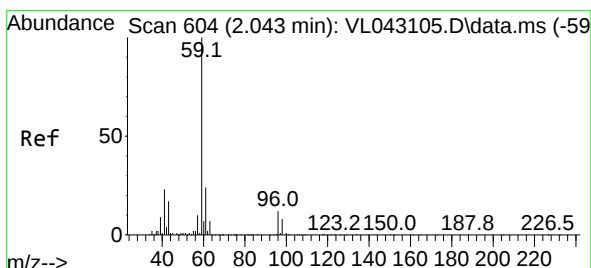
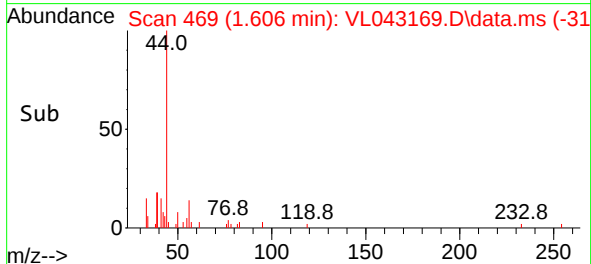
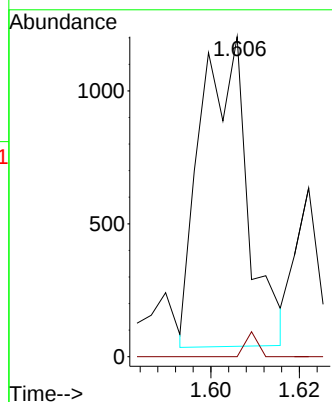
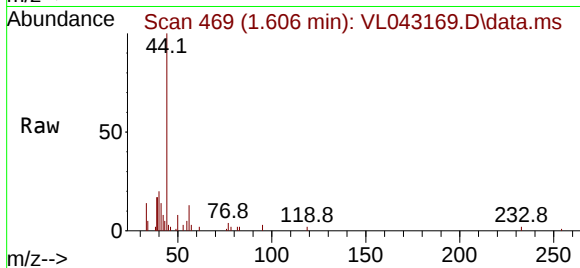
131-SG-2DL

Tgt Ion: 39 Resp: 862

Ion Ratio Lower Upper

39 100

54 0.0 59.0 88.4#



#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043169.D

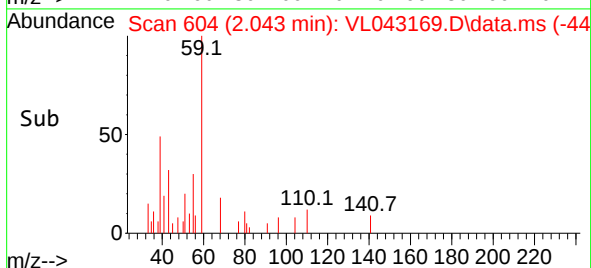
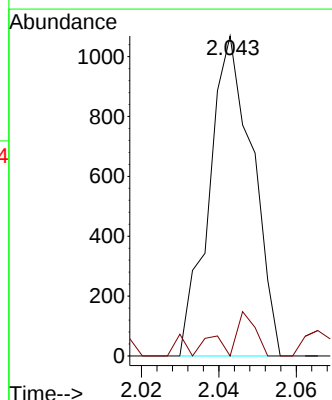
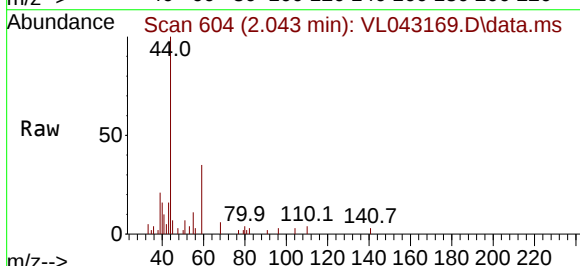
Acq: 06 Nov 2025 15:59

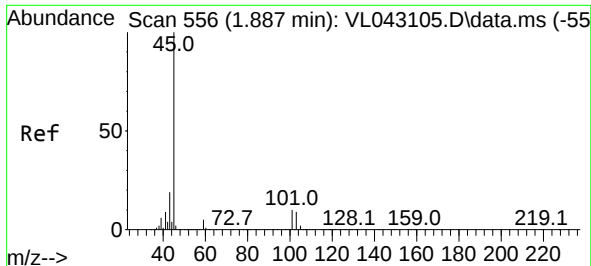
Tgt Ion: 59 Resp: 833

Ion Ratio Lower Upper

59 100

57 18.1 8.2 12.4#

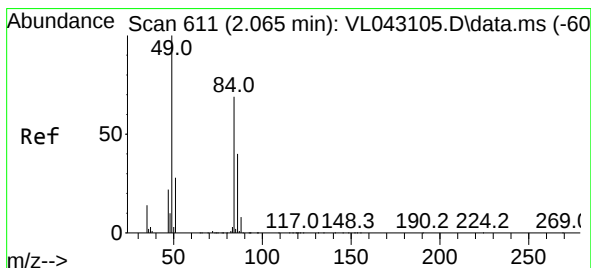
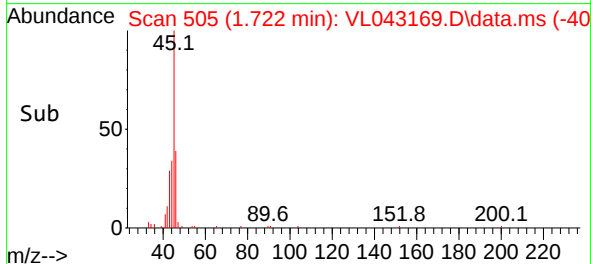
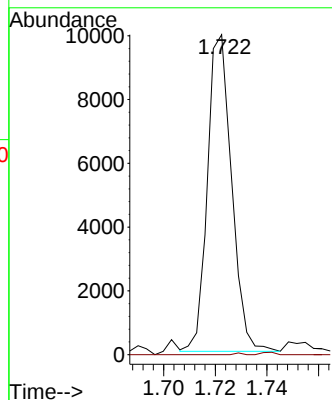
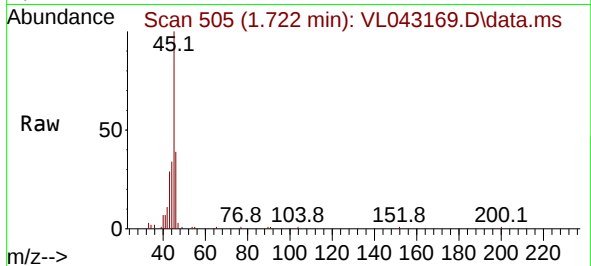




#19
Isopropyl Alcohol
Concen: 0.696 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.165 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

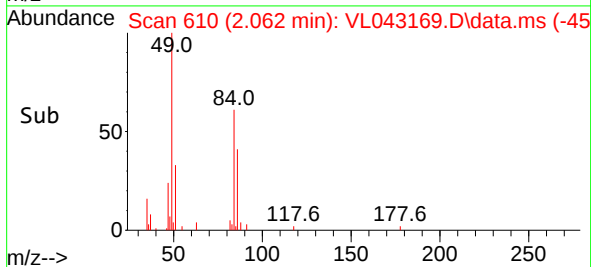
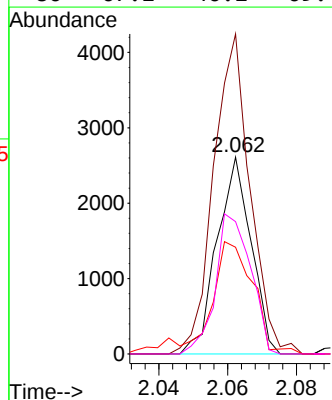
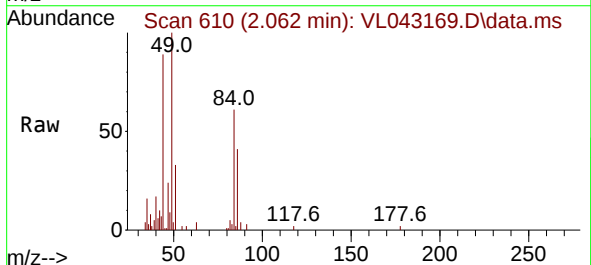
Instrument :
MSVOA_L
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131-SG-2DL

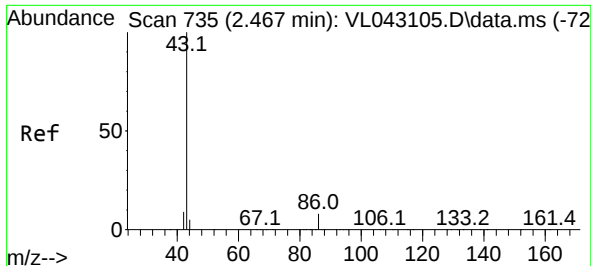
Tgt Ion: 45 Resp: 6455
Ion Ratio Lower Upper
45 100
58 109.4 31.3 46.9#



#20
Methylene Chloride
Concen: 0.306 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion: 84 Resp: 1799
Ion Ratio Lower Upper
84 100
49 165.5 116.6 175.0
51 51.7 34.8 52.2
86 67.2 46.2 69.4

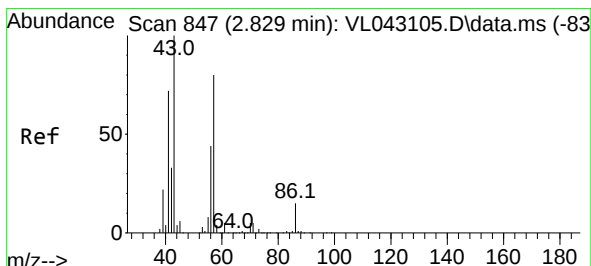
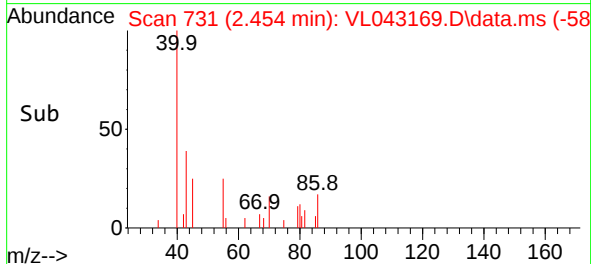
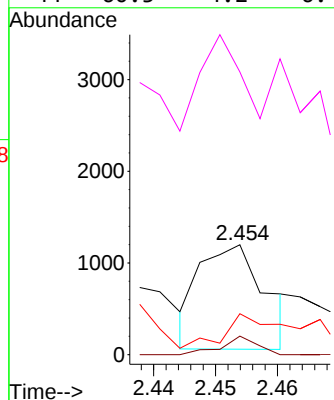
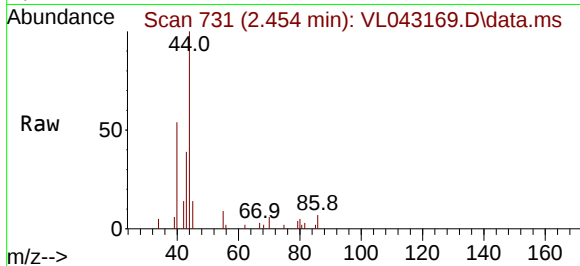




#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.013 min
 Lab File: VL043169.D
 Acq: 06 Nov 2025 15:59

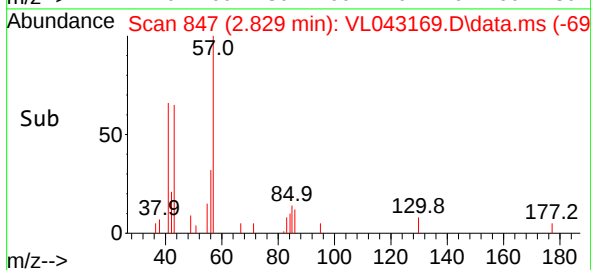
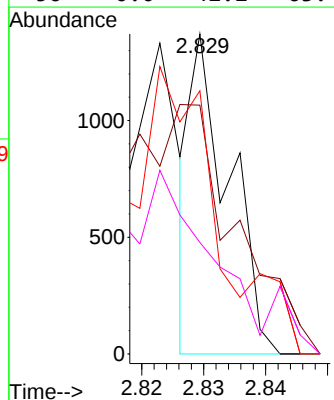
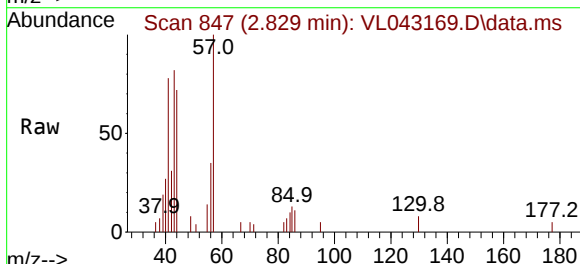
Instrument :
 MSVOA_L
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 131-SG-2DL

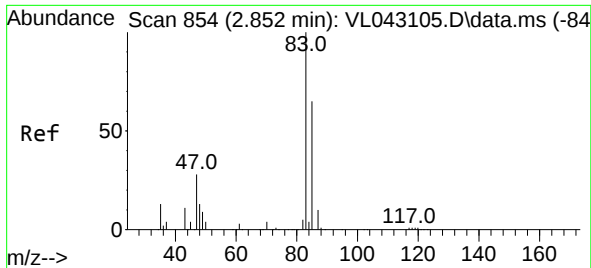
Tgt Ion: 43	Resp: 842
Ion Ratio	Lower Upper
43 100	
86 27.8	6.2 9.2#
42 51.6	7.6 11.4#
44 60.3	4.2 6.4#



#26
 Hexane
 Concen: 0.034 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. 0.000 min
 Lab File: VL043169.D
 Acq: 06 Nov 2025 15:59

Tgt Ion: 57	Resp: 580
Ion Ratio	Lower Upper
57 100	
41 262.2	71.4 107.0#
43 0.0	178.5 267.7#
56 0.0	42.2 63.4#





#29

Chloroform

Concen: 0.144 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043169.D

Acq: 06 Nov 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

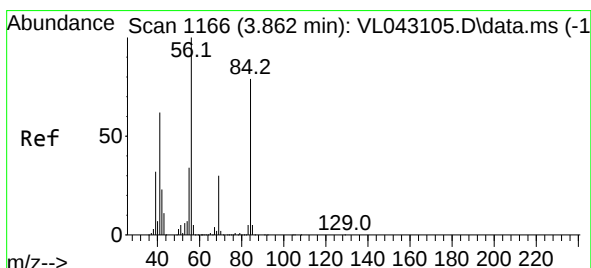
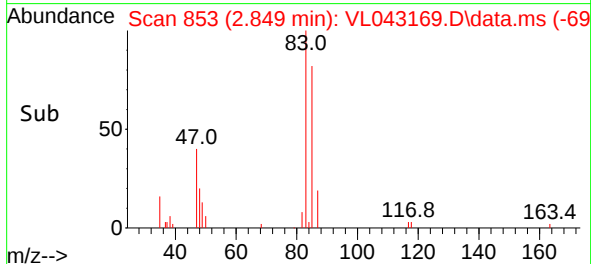
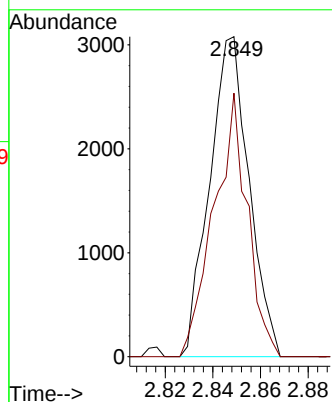
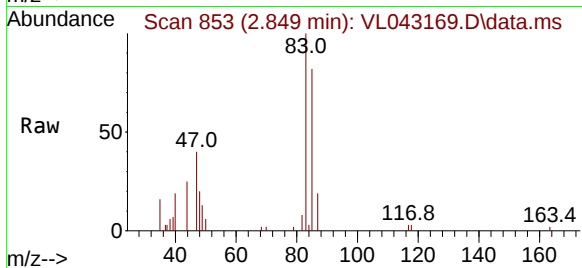
131-SG-2DL

Tgt Ion: 83 Resp: 3542

Ion Ratio Lower Upper

83 100

85 82.4 51.8 77.6#



#30

Cyclohexane

Concen: 0.080 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.088 min

Lab File: VL043169.D

Acq: 06 Nov 2025 15:59

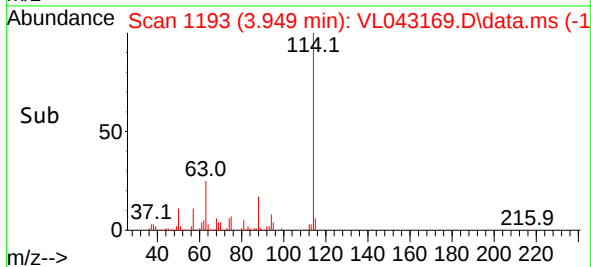
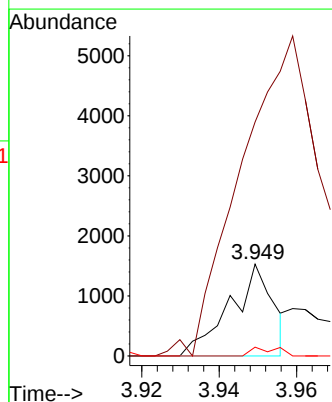
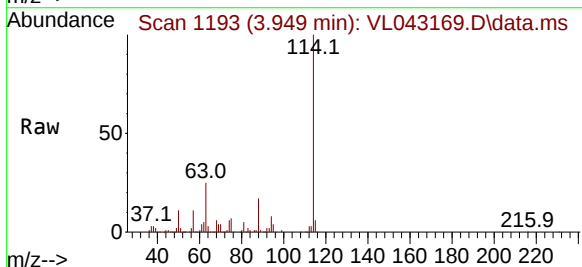
Tgt Ion: 84 Resp: 1188

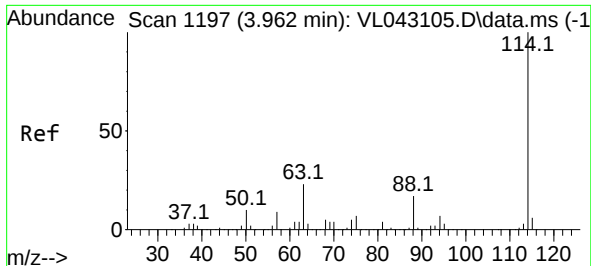
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

41 17.8 63.8 95.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.006 min

Lab File: VL043169.D

Acq: 06 Nov 2025 15:59

Instrument :

MSVOA_L

ClientSampleId :

131-SG-2DL

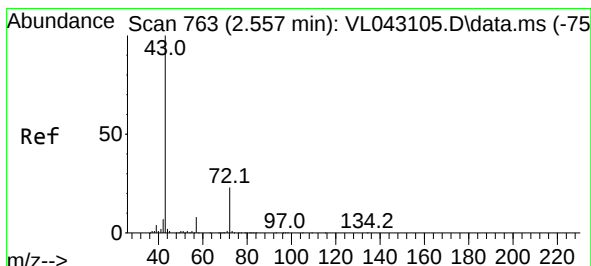
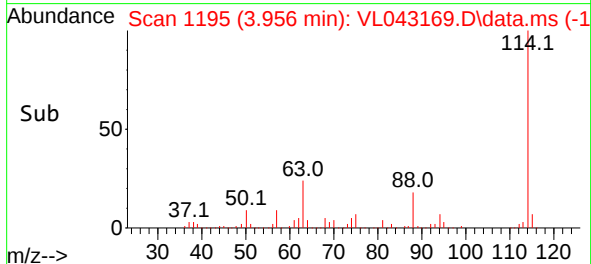
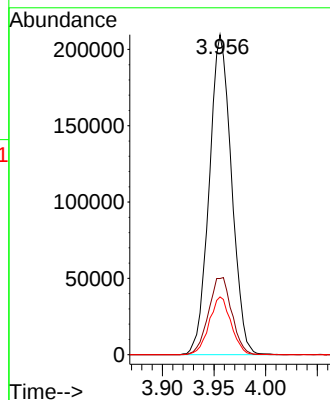
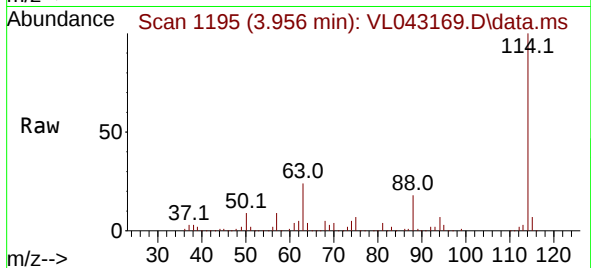
Tgt Ion:114 Resp: 313872

Ion Ratio Lower Upper

114 100

63 25.3 19.3 28.9

88 17.7 13.9 20.9



#34

2-Butanone

Concen: 0.191 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.007 min

Lab File: VL043169.D

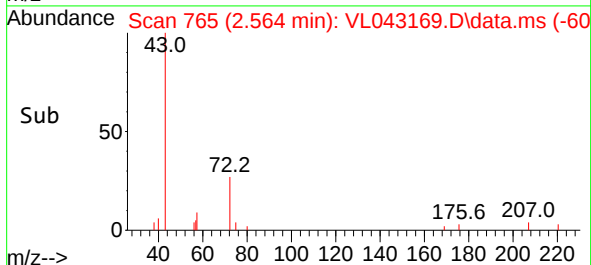
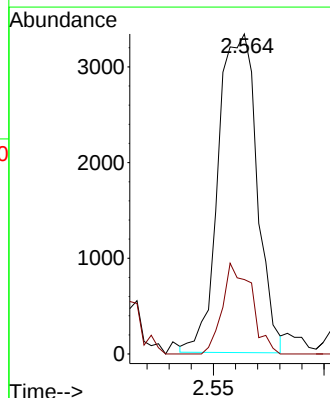
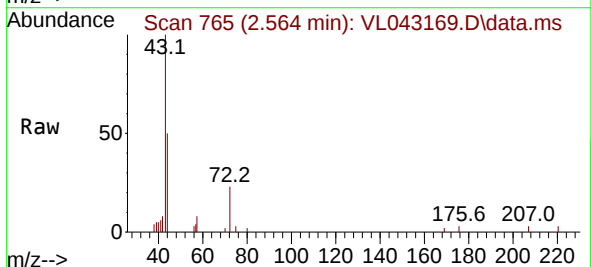
Acq: 06 Nov 2025 15:59

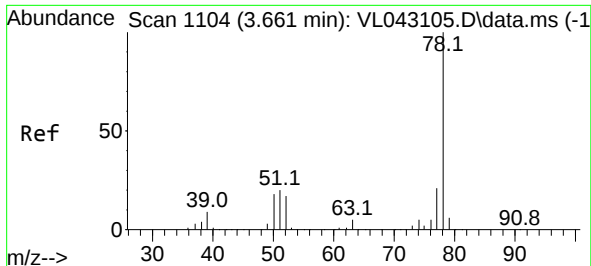
Tgt Ion: 43 Resp: 4037

Ion Ratio Lower Upper

43 100

72 21.6 18.4 27.6

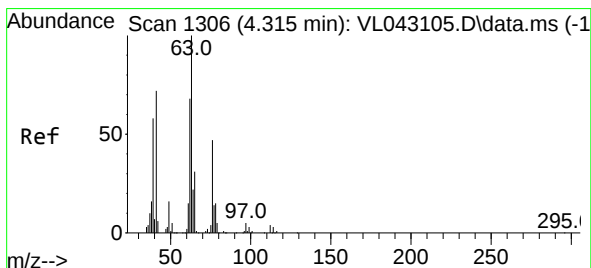
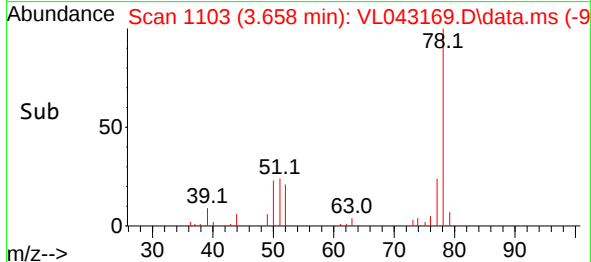
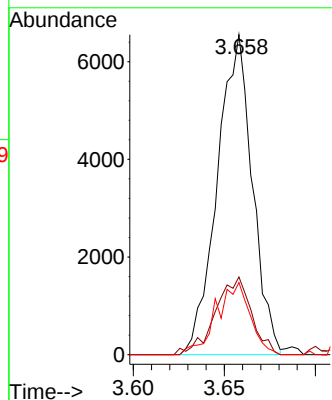
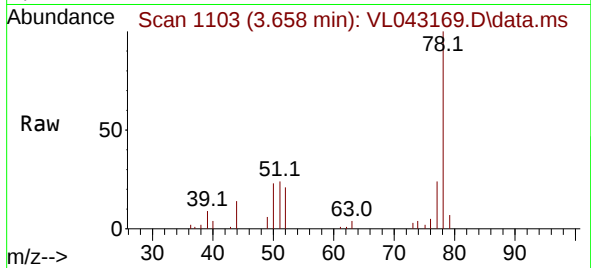




#36
Benzene
Concen: 0.297 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

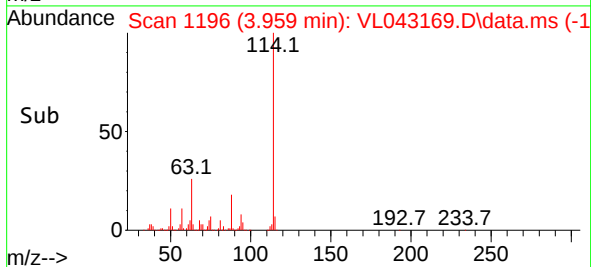
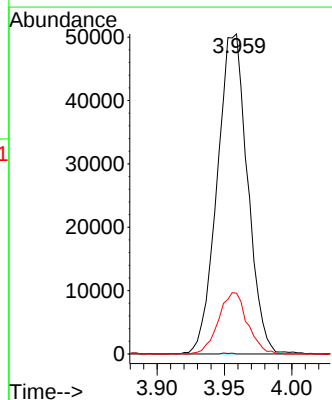
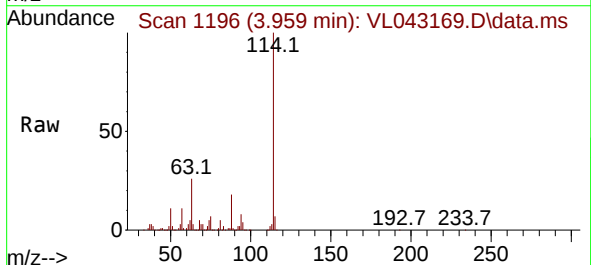
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2DL

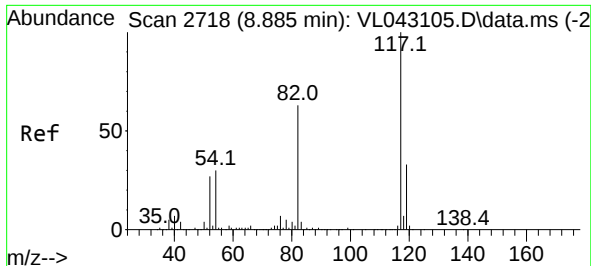
Tgt Ion: 78 Resp: 8773
Ion Ratio Lower Upper
78 100
77 22.7 17.0 25.6
50 22.6 14.6 22.0#



#39
1,2-Dichloropropane
Concen: 7.317 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.356 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion: 63 Resp: 79073
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 19.0 54.7 82.1#

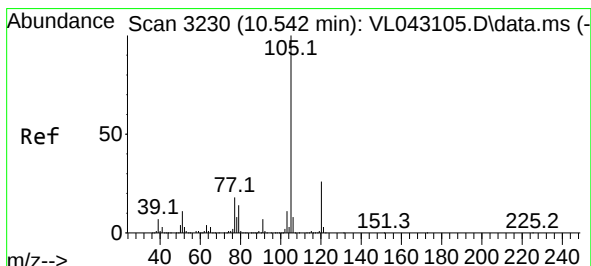
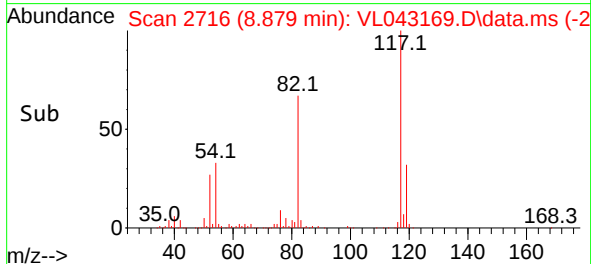
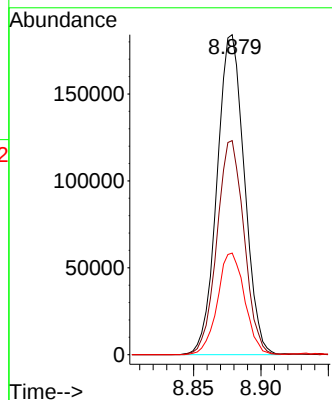
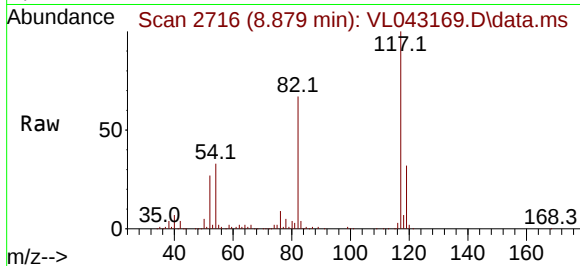




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

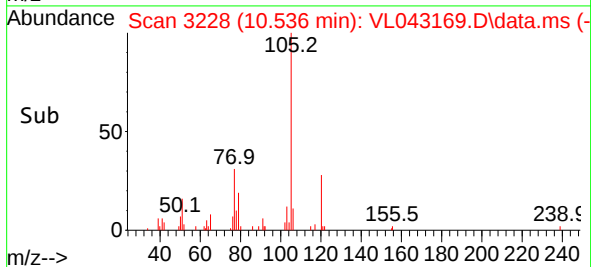
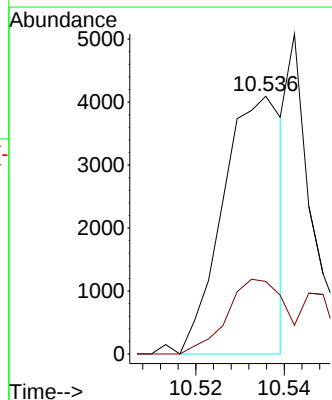
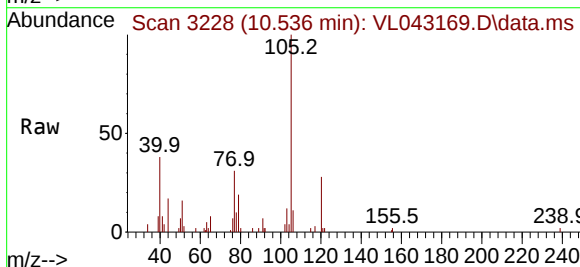
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2DL

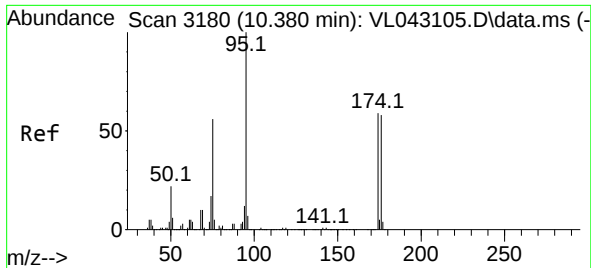
Tgt Ion:117 Resp: 260123
Ion Ratio Lower Upper
117 100
82 66.6 53.8 80.8
119 31.7 25.4 38.0



#62
Isopropylbenzene
Concen: 0.060 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.006 min
Lab File: VL043169.D
Acq: 06 Nov 2025 15:59

Tgt Ion:105 Resp: 3804
Ion Ratio Lower Upper
105 100
120 39.6 20.2 30.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.954 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VL043169.D
 Acq: 06 Nov 2025 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 131-SG-2DL

Tgt Ion: 95 Resp: 201260
 Ion Ratio Lower Upper
 95 100
 174 64.0 48.3 72.5
 175 4.4 3.8 5.8

