

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042131.D
 Acq On : 10 Mar 2025 18:23
 Operator : SY/MD
 Sample : Q1506-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Mar 11 01:28:52 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

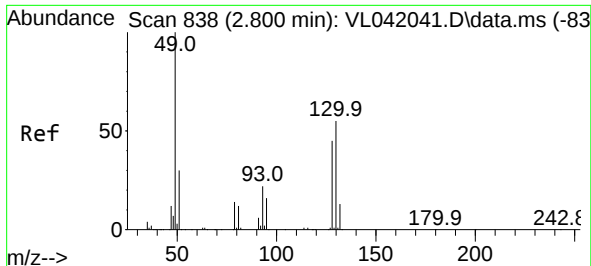
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.803	49	165473	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	379655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	331589	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	283210	11.102	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	736	0.043	ppbv #	73
7) Chloroethane	1.726	64	74	0.030	ppbv	89
8) Dichlorotetrafluoroethane	1.502	85	736	0.052	ppbv #	20
9) Propene	1.489	41	2576	0.263	ppbv	88
13) Ethanol	1.438	45	272367	437.924	ppbv #	33
15) Acetone	1.845	43	5757	0.394	ppbv #	79
16) 1,3-Butadiene	1.612	39	1076	0.158	ppbv #	45
19) Isopropyl Alcohol	1.438	45	272367	32.448	ppbv #	32
20) Methylene Chloride	2.075	84	1297	0.235	ppbv #	89
23) Vinyl Acetate	2.483	43	428	0.042	ppbv #	1
25) Ethyl Acetate	2.842	43	3004	0.051	ppbv #	75
26) Hexane	2.839	57	3856	0.163	ppbv #	29
34) 2-Butanone	2.577	43	4394	0.149	ppbv #	88
39) 1,2-Dichloropropane	3.982	63	98328	6.518	ppbv #	23
53) Toluene	6.969	91	2015	0.045	ppbv #	20
60) o-Xylene	9.985	91	1746	0.036	ppbv	97
66) Benzyl Chloride	11.626	91	312	0.061	ppbv #	70
71) 2-Chlorotoluene	11.005	91	1742	0.031	ppbv	76

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

Quant Time: Mar 11 01:28:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

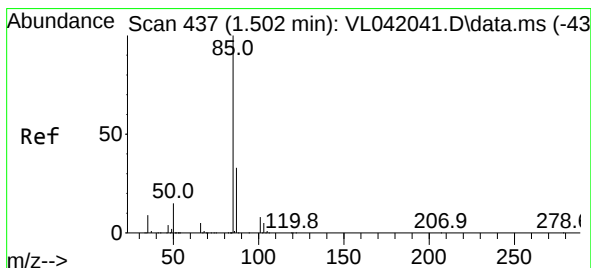
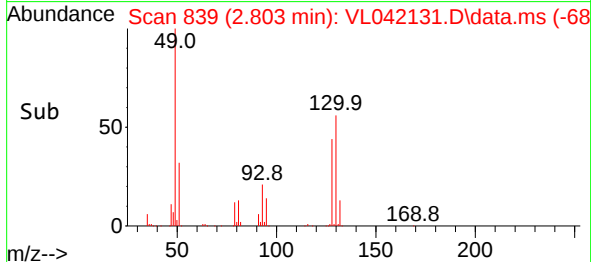
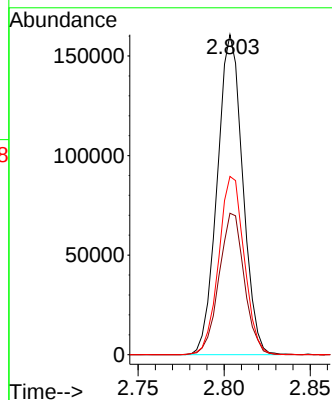
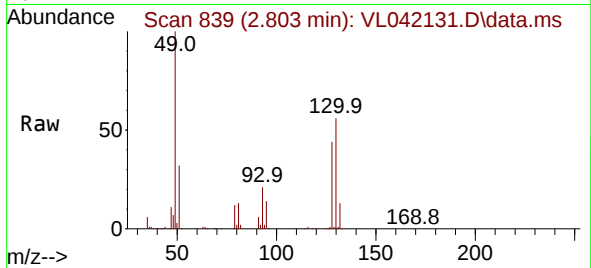




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 838
Delta R.T. 0.003 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

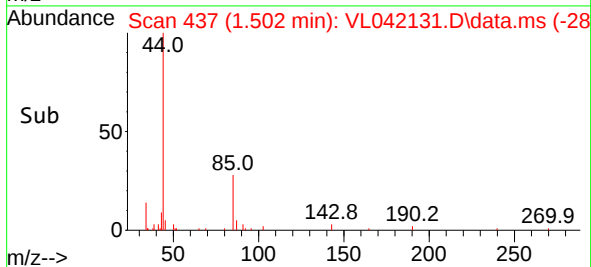
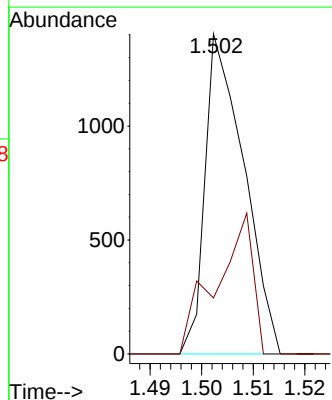
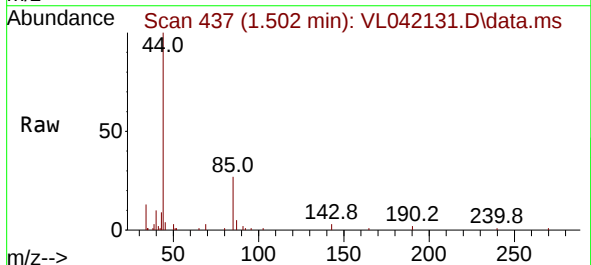
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

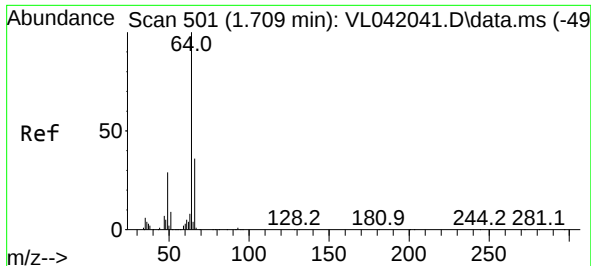
Tgt Ion: 49 Resp: 165473
Ion Ratio Lower Upper
49 100
128 43.8 21.6 64.8
130 55.8 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.043 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 85 Resp: 736
Ion Ratio Lower Upper
85 100
87 17.5 26.4 39.6#

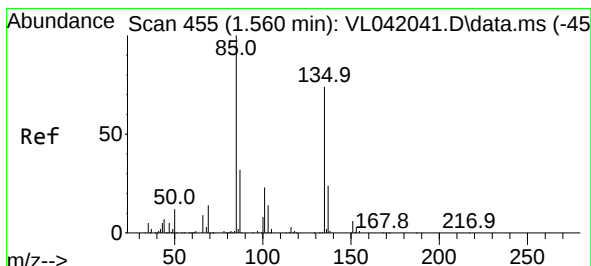
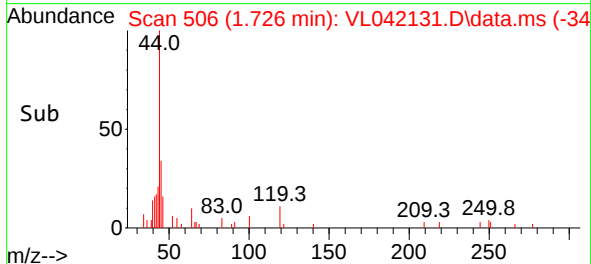
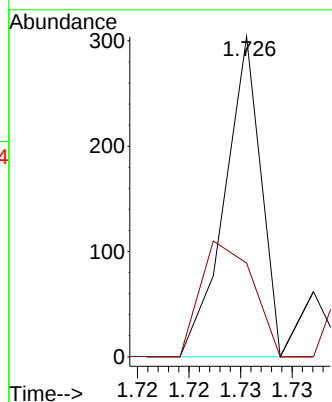
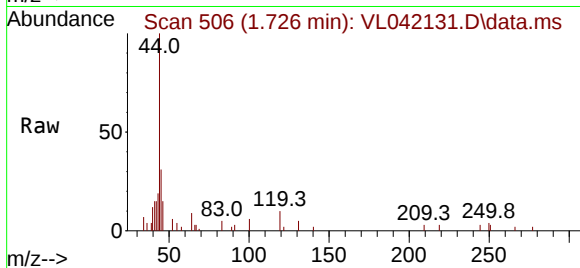




#7
Chloroethane
Concen: 0.030 ppbv
RT: 1.726 min Scan# 501
Delta R.T. 0.016 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

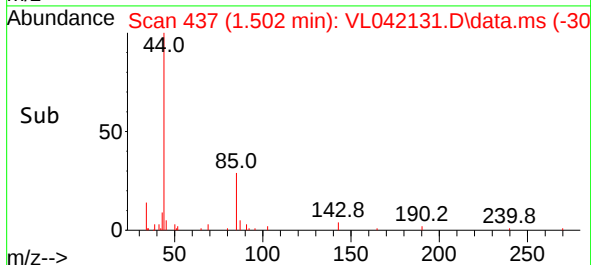
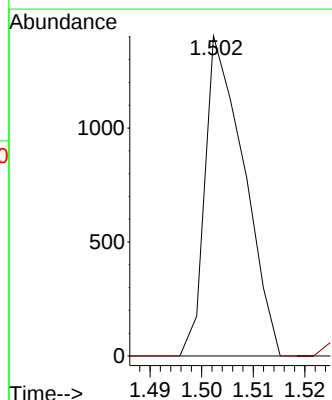
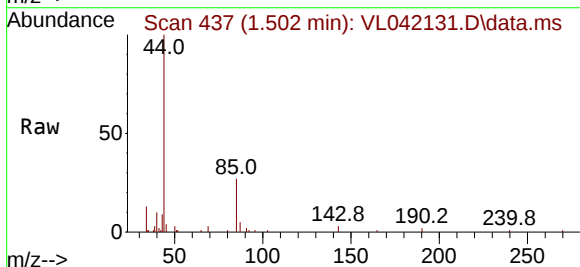
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

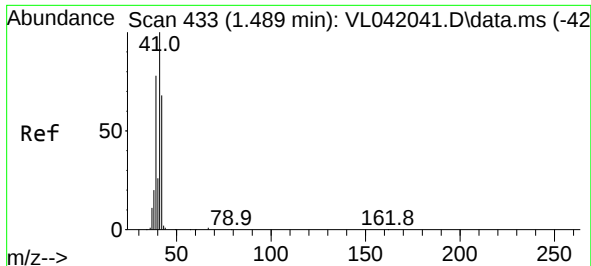
Tgt Ion: 64 Resp: 74
Ion Ratio Lower Upper
64 100
66 29.3 28.4 42.6



#8
Dichlorotetrafluoroethane
Concen: 0.052 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.058 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 85 Resp: 736
Ion Ratio Lower Upper
85 100
135 3.7 54.6 81.8#





#9

Propene

Concen: 0.263 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042131.D

Acq: 10 Mar 2025 18:23

Instrument :

MSVOA_L

ClientSampleId :

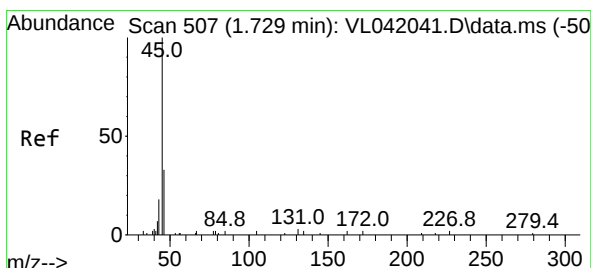
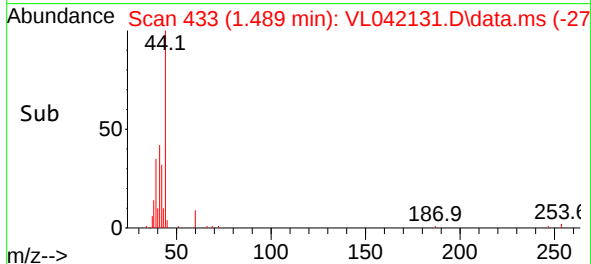
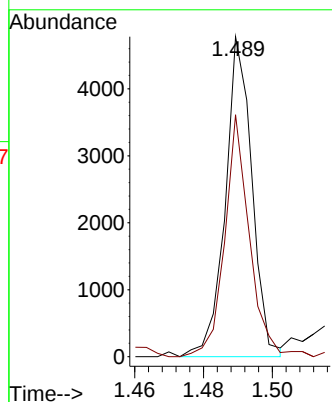
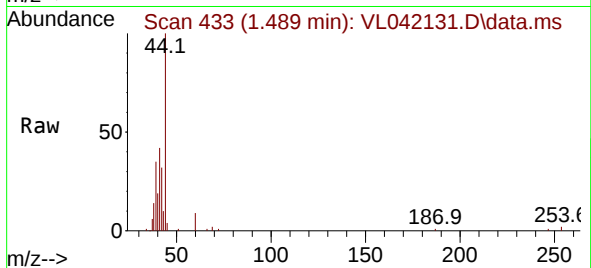
SV1DL

Tgt Ion: 41 Resp: 2576

Ion Ratio Lower Upper

41 100

42 79.3 55.8 83.6



#13

Ethanol

Concen: 437.924 ppbv

RT: 1.438 min Scan# 417

Delta R.T. -0.291 min

Lab File: VL042131.D

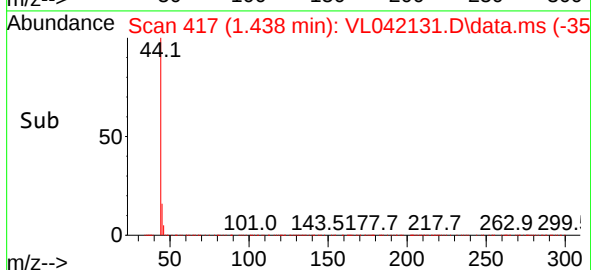
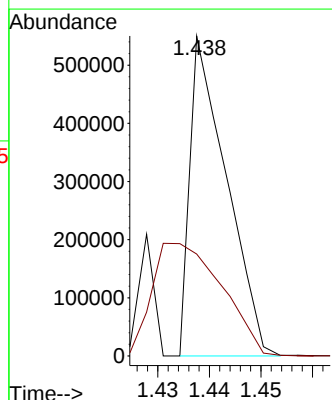
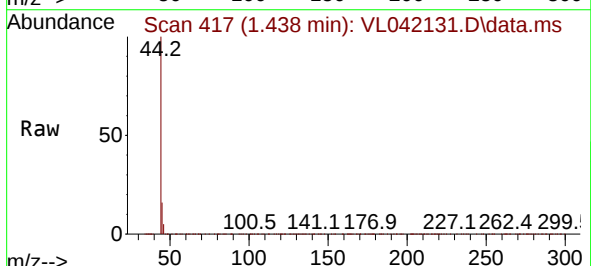
Acq: 10 Mar 2025 18:23

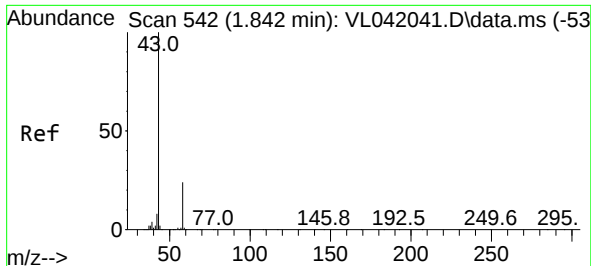
Tgt Ion: 45 Resp: 272367

Ion Ratio Lower Upper

45 100

46 0.0 17.1 68.3#





#15

Acetone

Concen: 0.394 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042131.D

Acq: 10 Mar 2025 18:23

Instrument :

MSVOA_L

ClientSampleId :

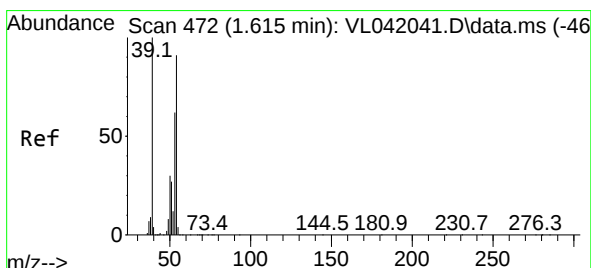
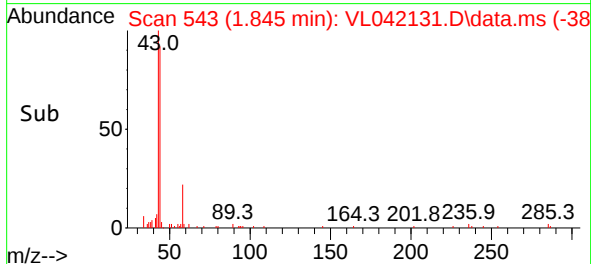
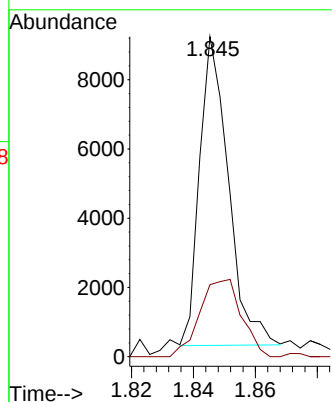
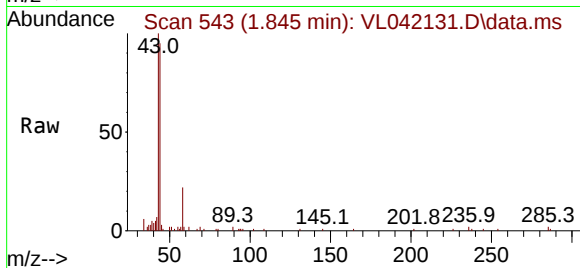
SV1DL

Tgt Ion: 43 Resp: 5757

Ion Ratio Lower Upper

43 100

58 36.8 20.7 31.1#



#16

1,3-Butadiene

Concen: 0.158 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.003 min

Lab File: VL042131.D

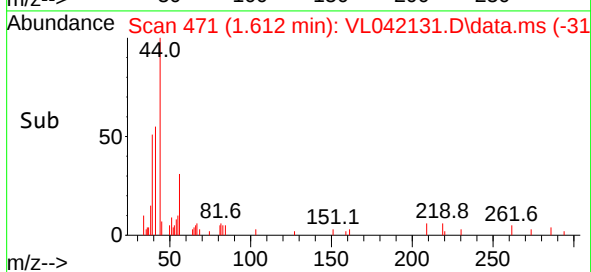
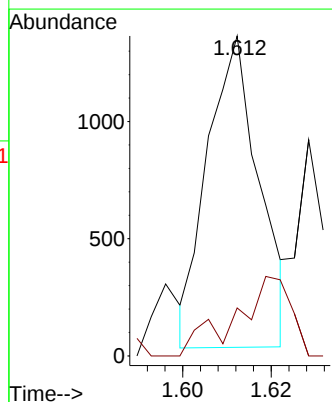
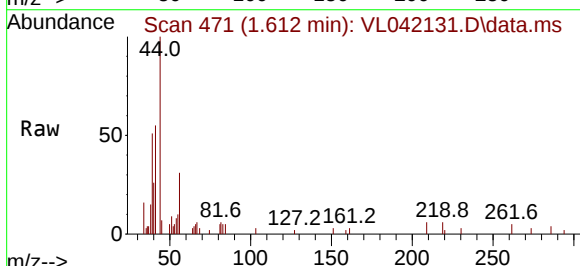
Acq: 10 Mar 2025 18:23

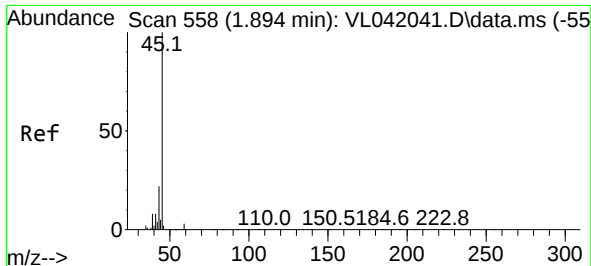
Tgt Ion: 39 Resp: 1076

Ion Ratio Lower Upper

39 100

54 27.4 59.6 89.4#





#19

Isopropyl Alcohol

Concen: 32.448 ppbv

RT: 1.438 min Scan# 417

Delta R.T. -0.456 min

Lab File: VL042131.D

Acq: 10 Mar 2025 18:23

Instrument :

MSVOA_L

ClientSampleId :

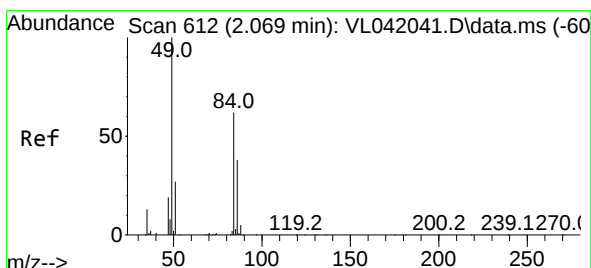
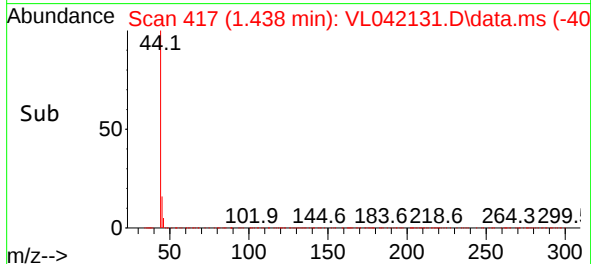
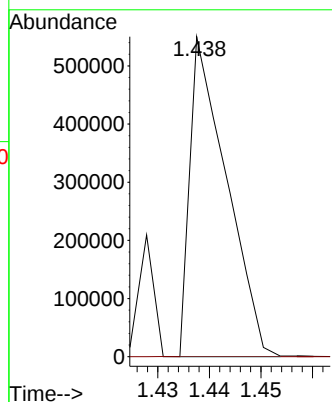
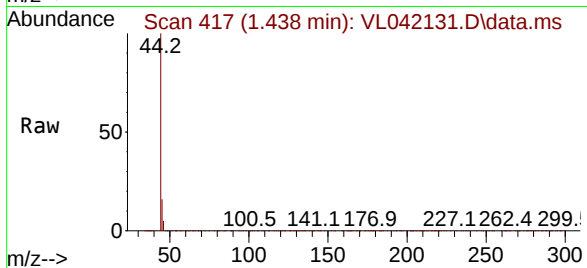
SV1DL

Tgt Ion: 45 Resp: 272367

Ion Ratio Lower Upper

45 100

58 0.1 35.3 52.9#



#20

Methylene Chloride

Concen: 0.235 ppbv

RT: 2.075 min Scan# 614

Delta R.T. 0.007 min

Lab File: VL042131.D

Acq: 10 Mar 2025 18:23

Tgt Ion: 84 Resp: 1297

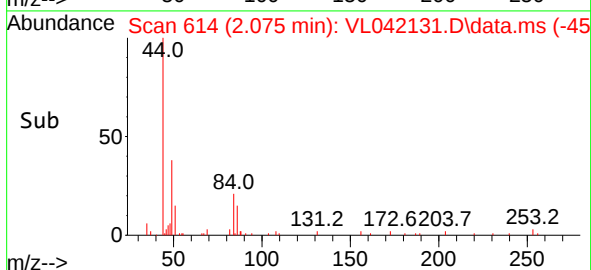
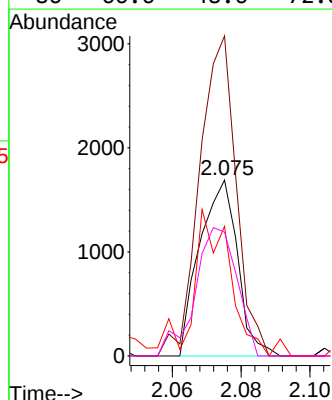
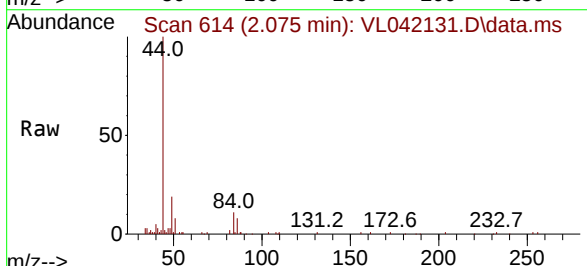
Ion Ratio Lower Upper

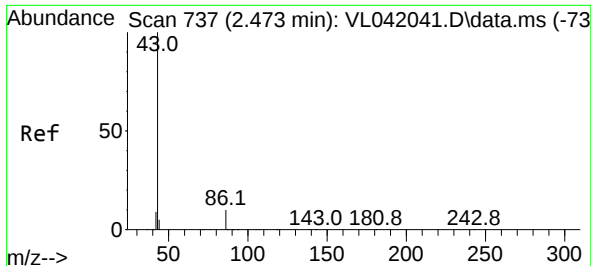
84 100

49 172.0 130.0 195.0

51 66.1 37.4 56.0#

86 66.6 48.6 72.8



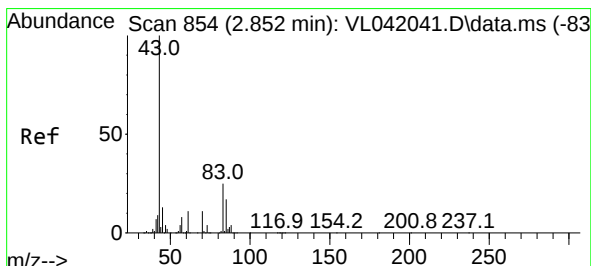
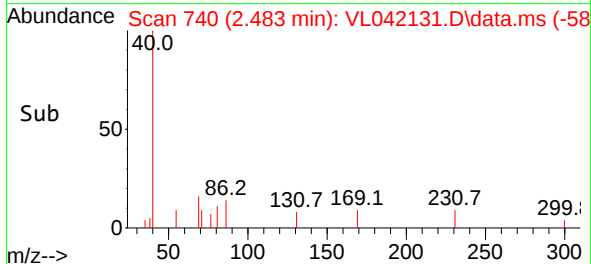
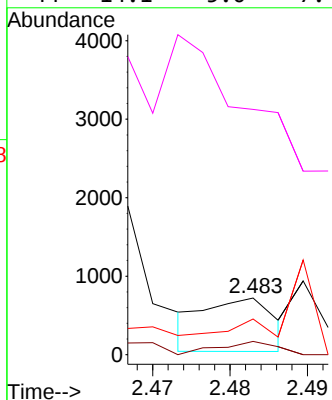
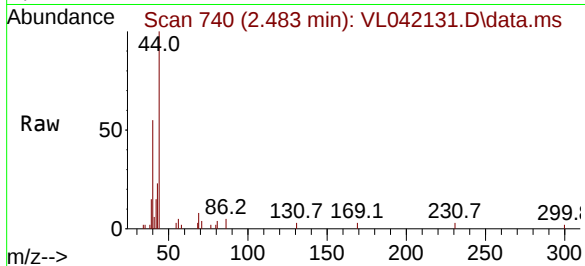


#23
 Vinyl Acetate
 Concen: 0.042 ppbv
 RT: 2.483 min Scan# 740
 Delta R.T. 0.010 min
 Lab File: VL042131.D
 Acq: 10 Mar 2025 18:23

Instrument :
 MSVOA_1
 ClientSampleId :
 SV1DL

Tgt Ion: 43 Resp: 428

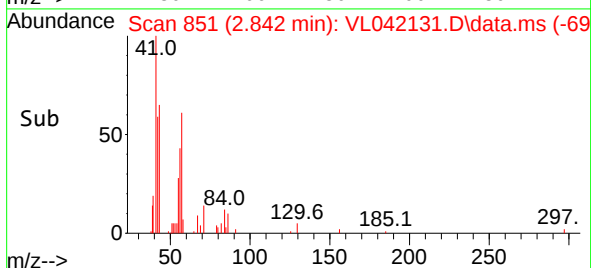
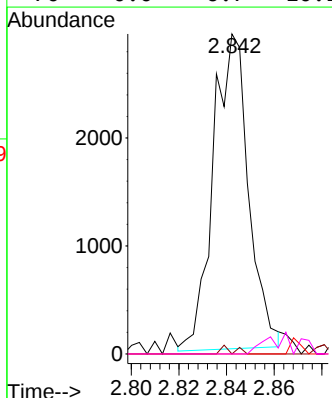
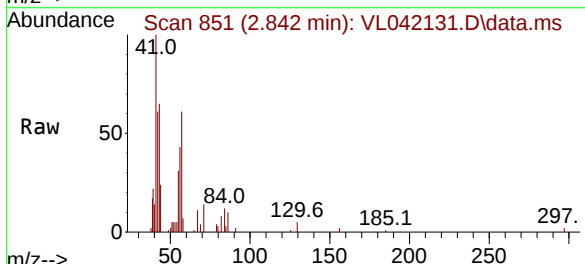
Ion	Ratio	Lower	Upper
43	100		
86	59.9	7.0	10.4#
42	80.6	7.6	11.4#
44	14.1	5.0	7.4#

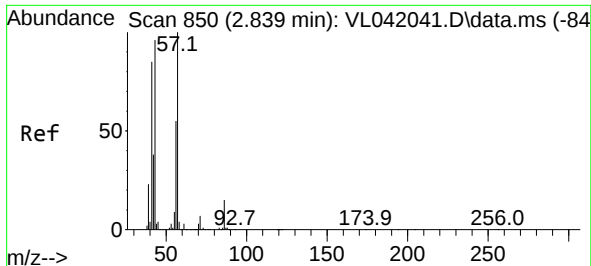


#25
 Ethyl Acetate
 Concen: 0.051 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. -0.010 min
 Lab File: VL042131.D
 Acq: 10 Mar 2025 18:23

Tgt Ion: 43 Resp: 3004

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.2	10.8#
70	0.0	6.7	10.1#

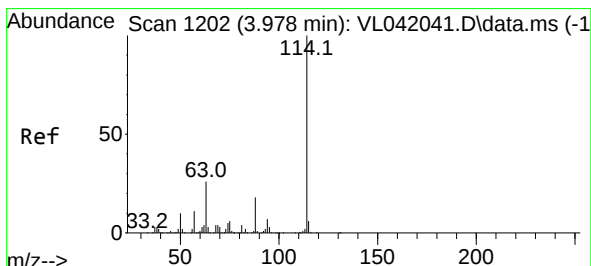
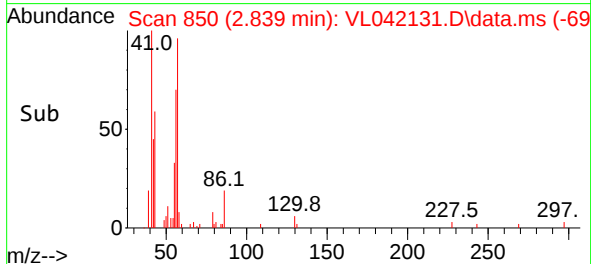
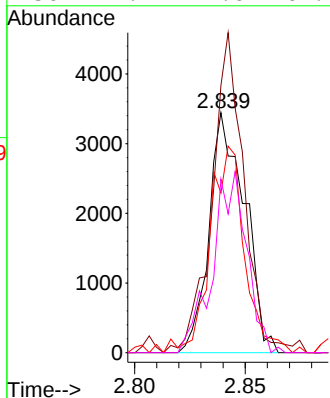
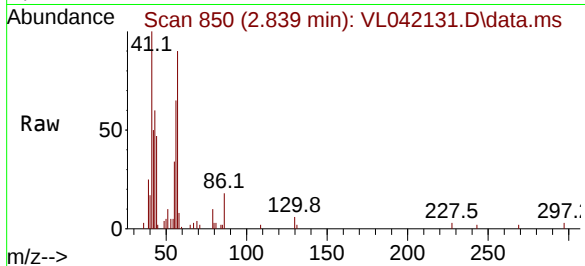




#26
Hexane
Concen: 0.163 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

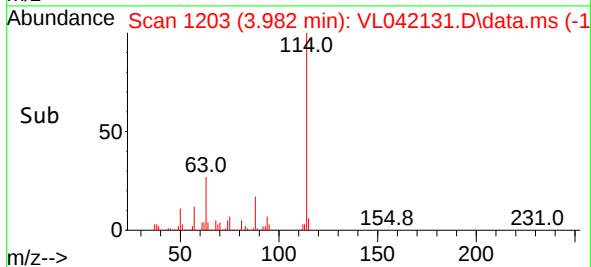
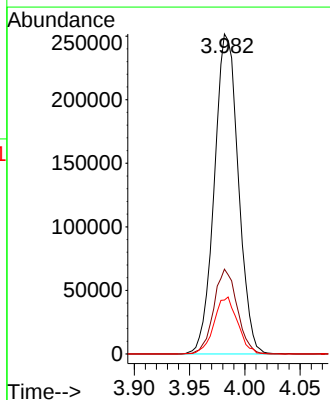
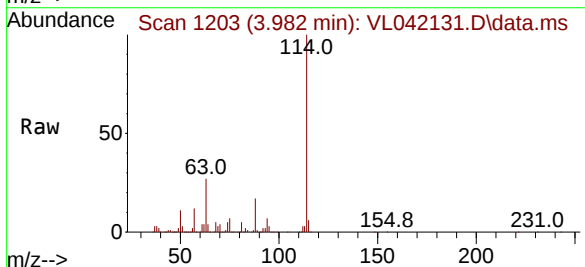
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

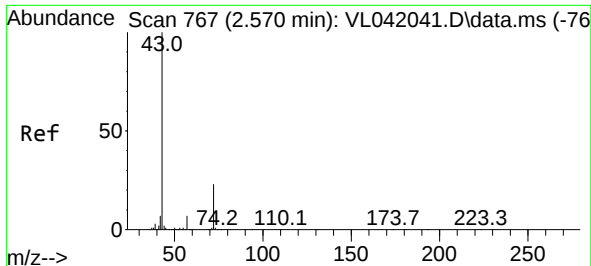
Tgt Ion: 57	Resp:	3856	
Ion	Ratio	Lower	Upper
57	100		
41	126.1	70.6	106.0#
43	89.8	199.4	299.0#
56	72.4	42.6	64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.982 min Scan# 1203
Delta R.T. 0.003 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion:114	Resp:	379655	
Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.5	14.3	21.5

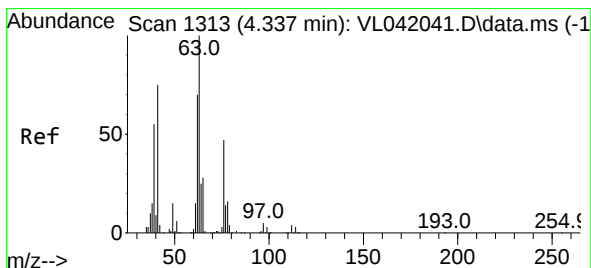
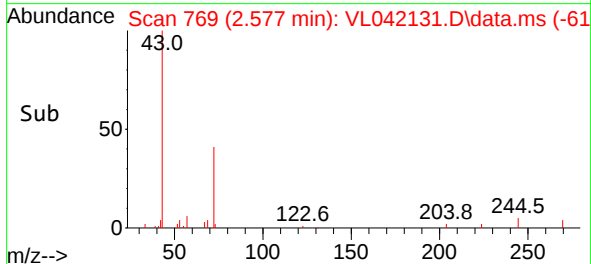
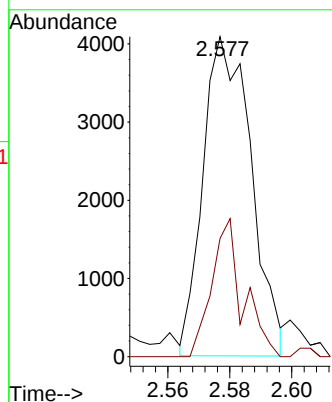
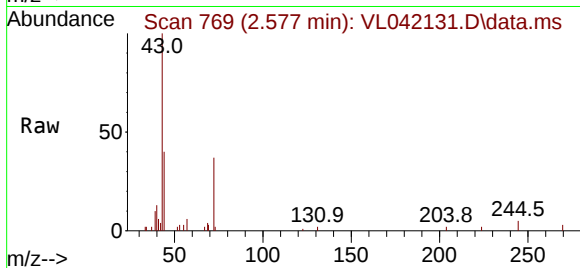




#34
2-Butanone
Concen: 0.149 ppbv
RT: 2.577 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

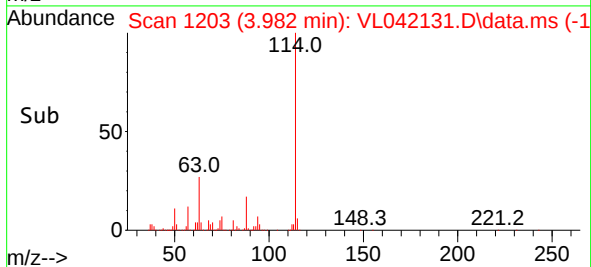
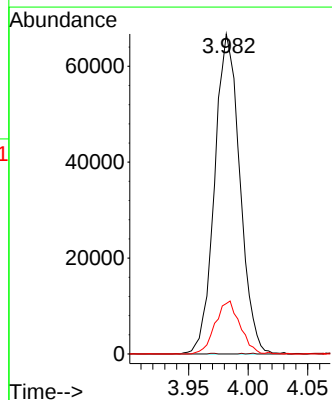
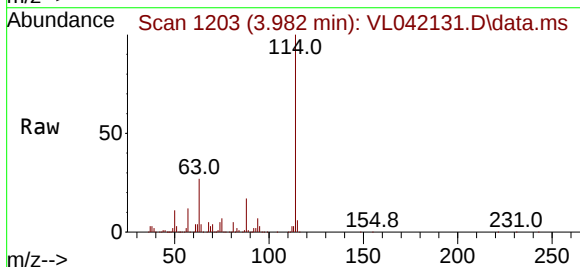
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

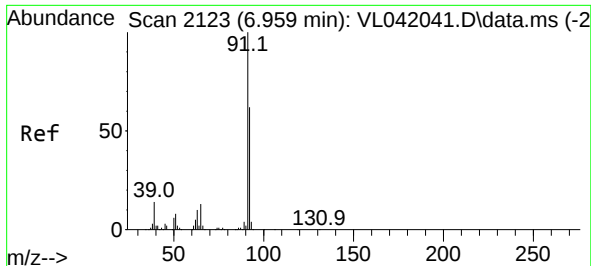
Tgt Ion: 43 Resp: 4394
Ion Ratio Lower Upper
43 100
72 28.7 18.5 27.7#



#39
1,2-Dichloropropane
Concen: 6.518 ppbv
RT: 3.982 min Scan# 1203
Delta R.T. -0.356 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 63 Resp: 98328
Ion Ratio Lower Upper
63 100
41 0.0 60.1 90.1#
62 15.7 55.8 83.8#

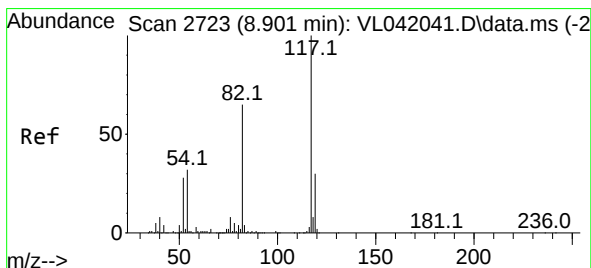
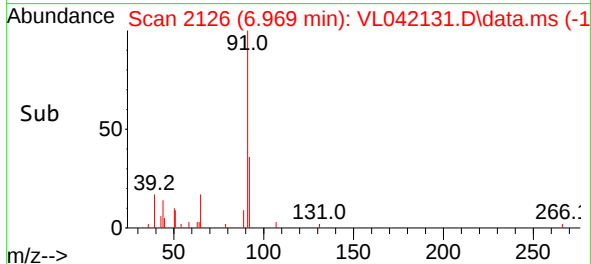
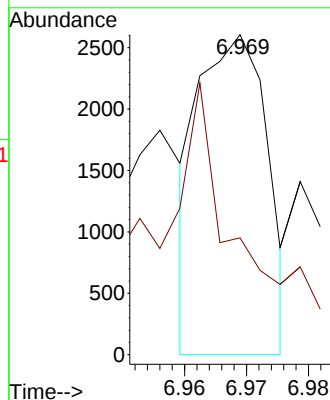
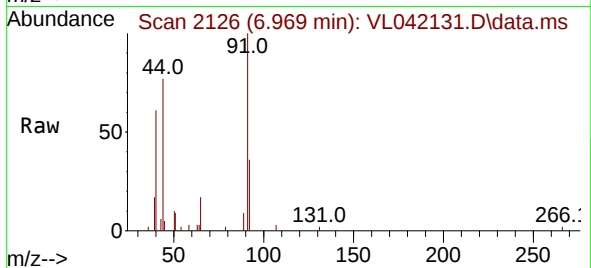




#53
Toluene
Concen: 0.045 ppbv
RT: 6.969 min Scan# 2123
Delta R.T. 0.010 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

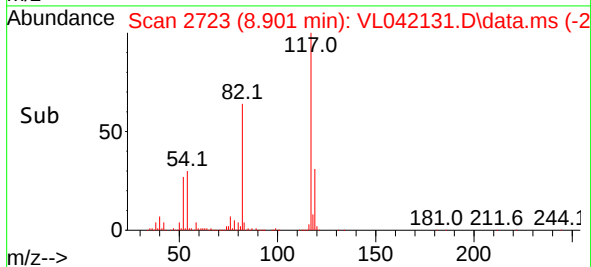
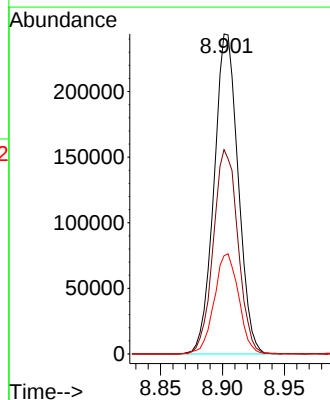
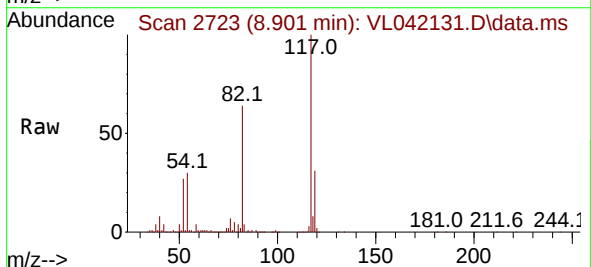
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

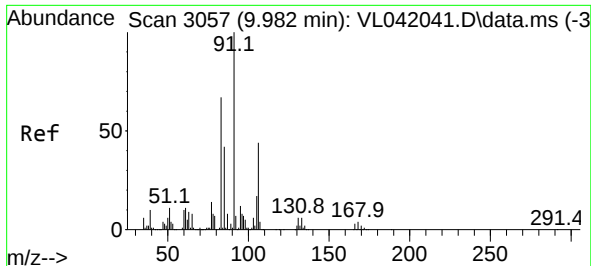
Tgt Ion: 91 Resp: 2015
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 117 Resp: 331589
Ion Ratio Lower Upper
117 100
82 65.0 55.0 82.6
119 31.8 25.9 38.9

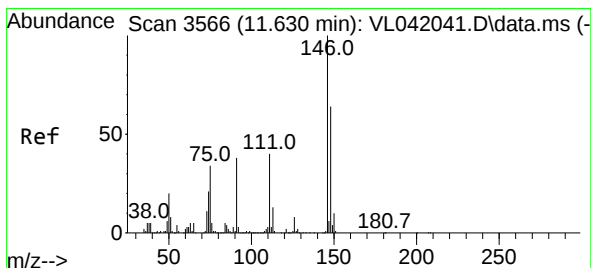
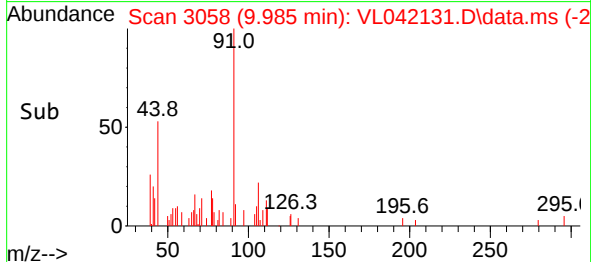
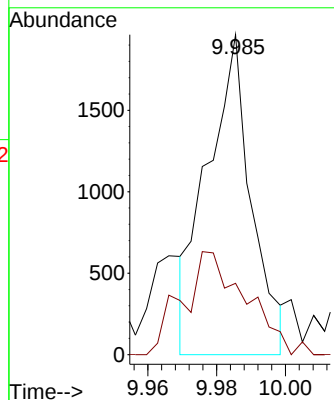
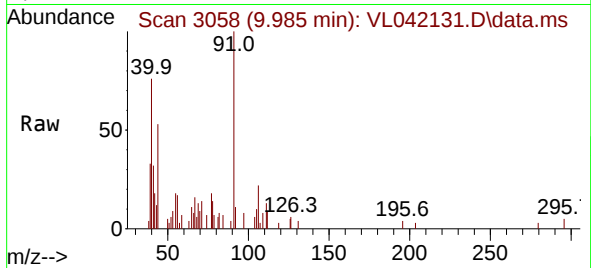




#60
o-Xylene
Concen: 0.036 ppbv
RT: 9.985 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

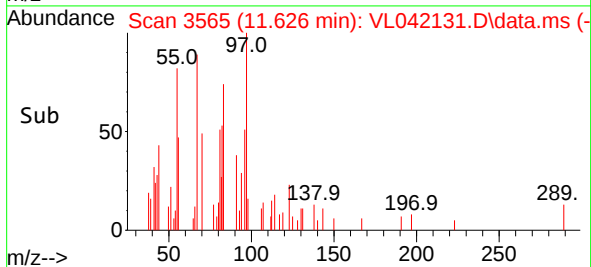
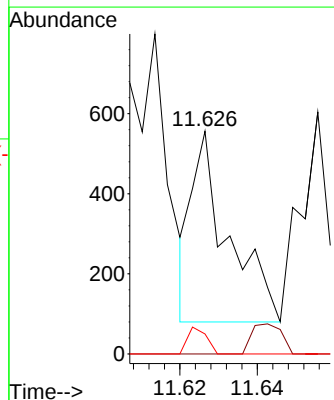
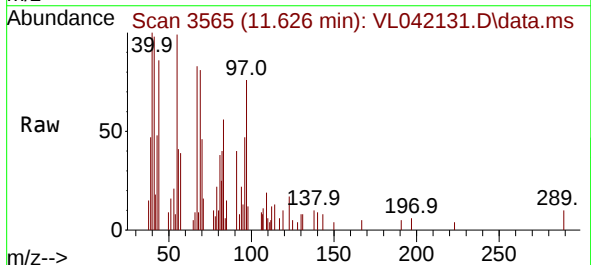
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

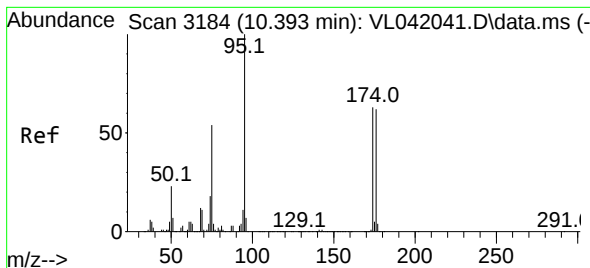
Tgt Ion: 91 Resp: 1746
Ion Ratio Lower Upper
91 100
106 46.5 22.3 66.8



#66
Benzyl Chloride
Concen: 0.061 ppbv
RT: 11.626 min Scan# 3565
Delta R.T. -0.003 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 91 Resp: 312
Ion Ratio Lower Upper
91 100
126 0.0 14.5 21.7#
128 7.4 5.4 8.2

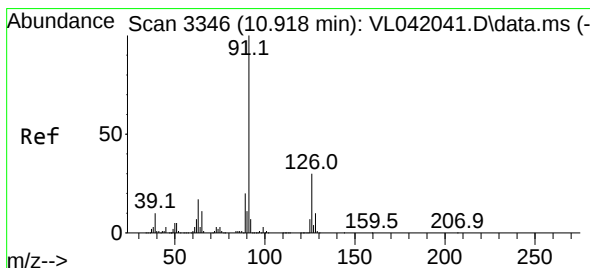
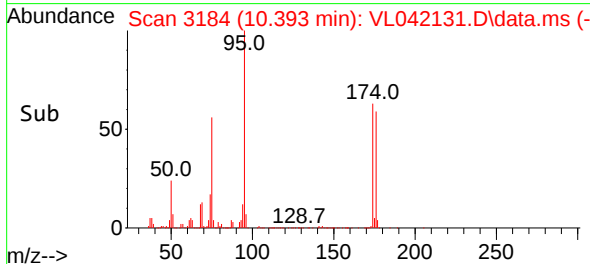
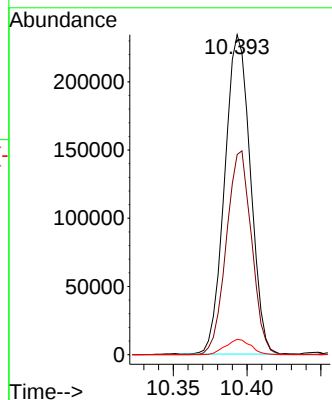
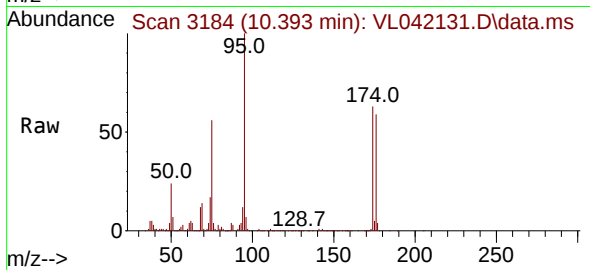




#68
1-Bromo-4-Fluorobenzene
Concen: 11.102 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.000 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 95 Resp: 283210
Ion Ratio Lower Upper
95 100
174 62.9 51.8 77.6
175 4.7 3.9 5.9



#71
2-Chlorotoluene
Concen: 0.031 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.088 min
Lab File: VL042131.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 91 Resp: 1742
Ion Ratio Lower Upper
91 100
126 16.9 11.9 47.5

