

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042891.D
 Acq On : 04 Sep 2025 15:36
 Operator : SY/MD
 Sample : Q3000-02DL 4X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 05 01:22:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

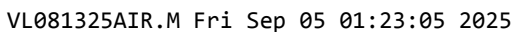
Internal Standards						
1) Bromochloromethane	2.797	49	126305	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	347782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	291497	10.000	ppbv	0.00

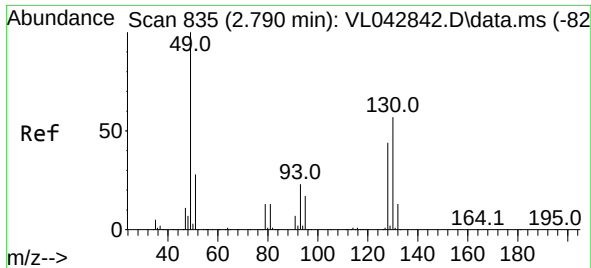
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	221649	10.139	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2377	0.128	ppbv #	79
3) Chlorodifluoromethane	1.479	51	5575	0.272	ppbv #	91
4) Chloromethane	1.534	50	884	0.118	ppbv #	77
6) Bromomethane	1.673	94	123	0.042	ppbv #	4
8) Dichlorotetrafluoroethane	1.502	85	2377	0.157	ppbv #	21
9) Propene	1.489	41	1008	0.114	ppbv	91
11) Trichlorofluoromethane	1.884	101	1129	0.062	ppbv	86
13) Ethanol	1.434	45	335834	415.656	ppbv	86
15) Acetone	1.842	43	19059	1.141	ppbv	99
16) 1,3-Butadiene	1.622	39	350	0.046	ppbv #	10
19) Isopropyl Alcohol	1.434	45	335834	33.653	ppbv #	35
20) Methylene Chloride	2.072	84	2311	0.330	ppbv	93
23) Vinyl Acetate	2.466	43	1665	0.072	ppbv #	80
26) Hexane	2.835	57	932	0.050	ppbv #	1
34) 2-Butanone	2.570	43	2258	0.096	ppbv	98
39) 1,2-Dichloropropane	3.975	63	91158	7.495	ppbv #	26
53) Toluene	6.949	91	1875	0.047	ppbv #	69
80) Naphthalene,2-methyl-	14.474	142	534	0.034	ppbv	91

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

Quant Time: Sep 05 01:22:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

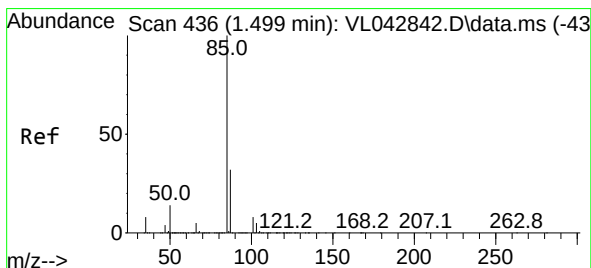
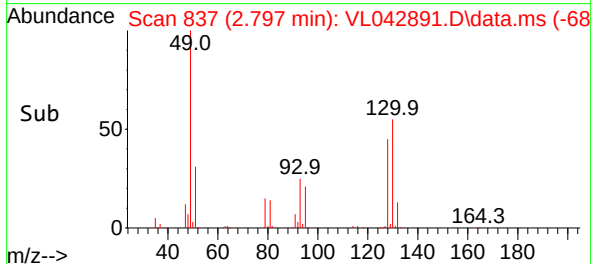
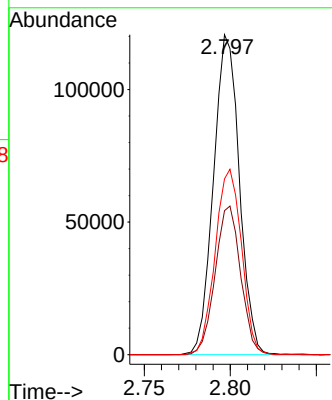
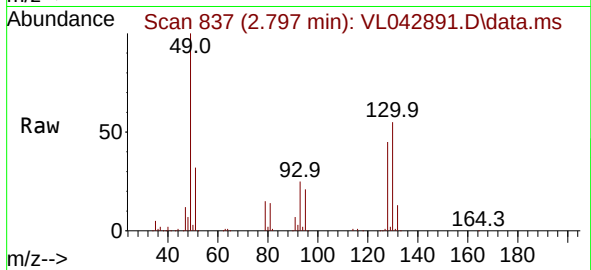




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042891.D
 Acq: 04 Sep 2025 15:36

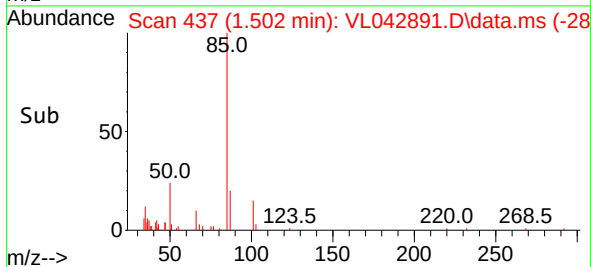
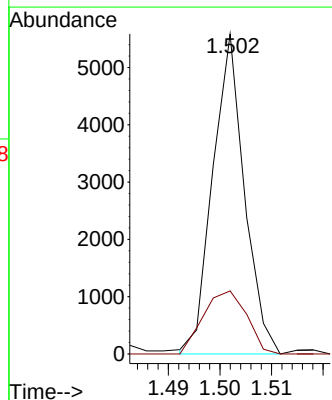
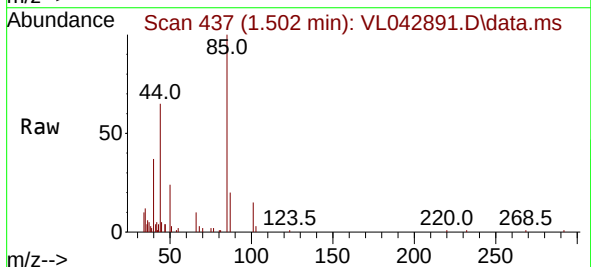
Instrument :
 MSVOA_L
 ClientSampleId :

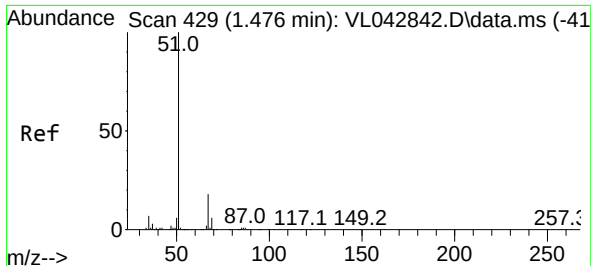
Tgt Ion: 49 Resp: 126305
 Ion Ratio Lower Upper
 49 100
 128 45.8 23.7 71.1
 130 59.0 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.128 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042891.D
 Acq: 04 Sep 2025 15:36

Tgt Ion: 85 Resp: 2377
 Ion Ratio Lower Upper
 85 100
 87 19.7 25.3 37.9#

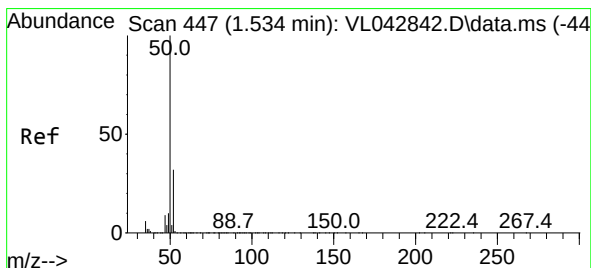
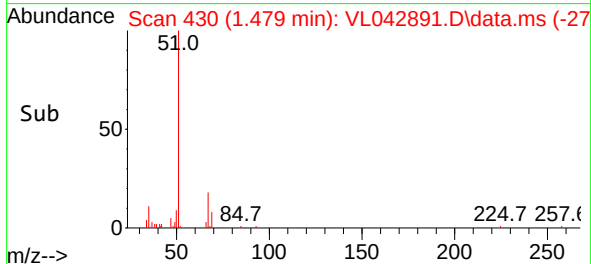
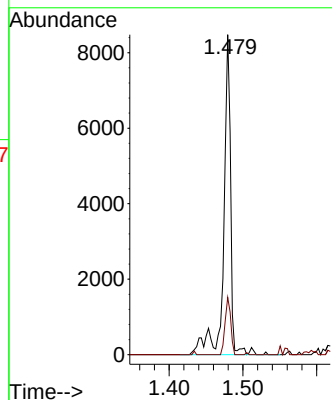
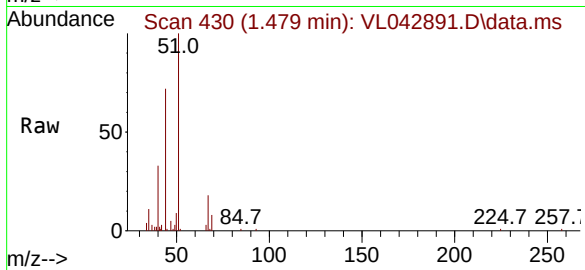




#3
Chlorodifluoromethane
Concen: 0.272 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

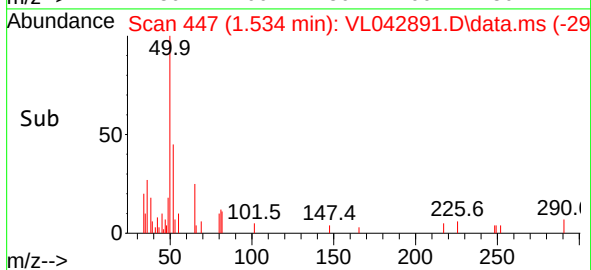
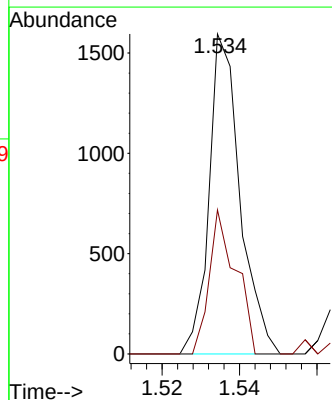
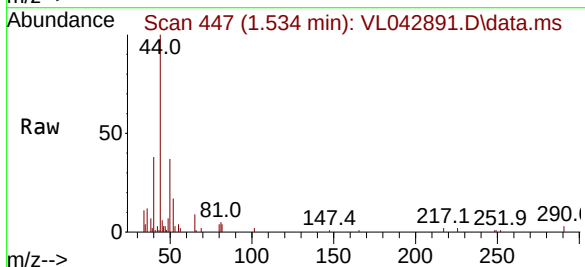
Instrument :
MSVOA_L
ClientSampleId :

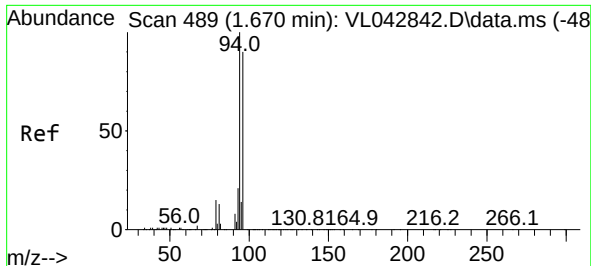
Tgt Ion: 51 Resp: 5575
Ion Ratio Lower Upper
51 100
67 14.5 14.9 22.3#



#4
Chloromethane
Concen: 0.118 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 50 Resp: 884
Ion Ratio Lower Upper
50 100
52 45.0 25.9 38.9#

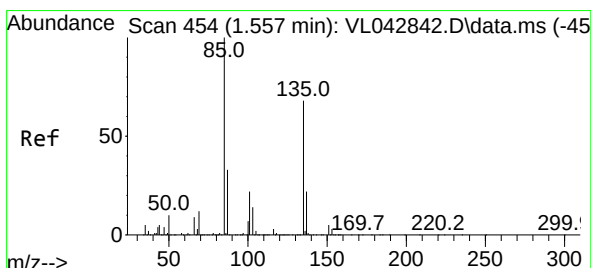
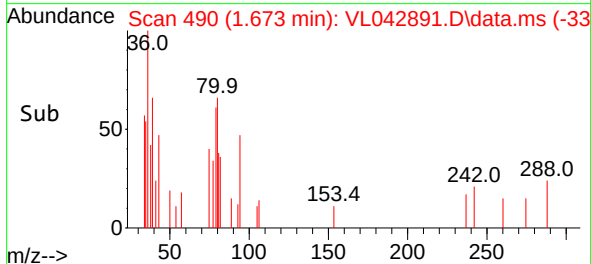
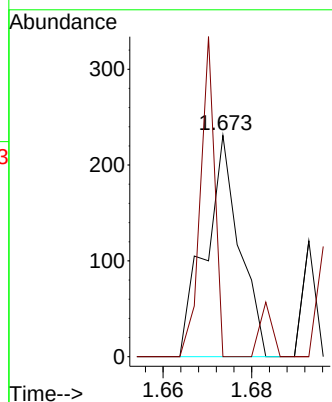
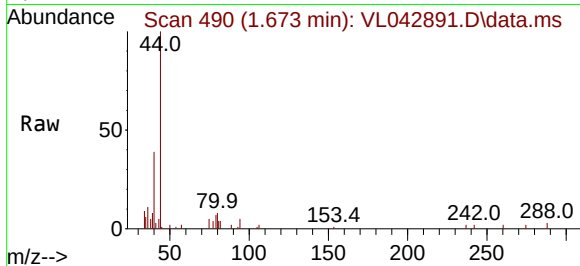




#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.673 min Scan# 490
Delta R.T. 0.003 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

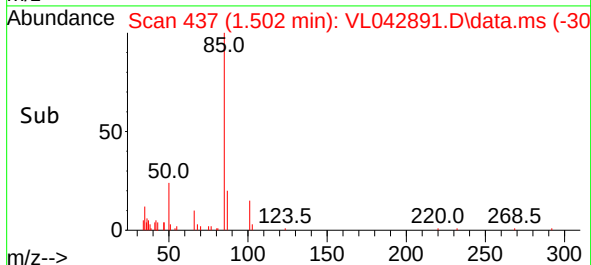
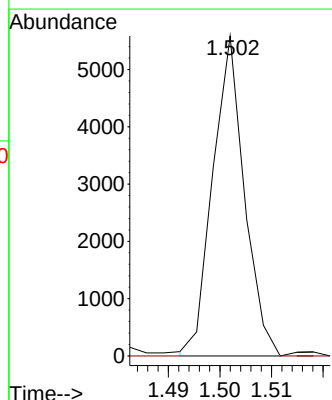
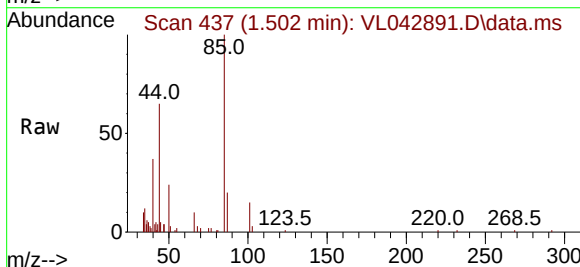
Instrument :
MSVOA_L
ClientSampleId :

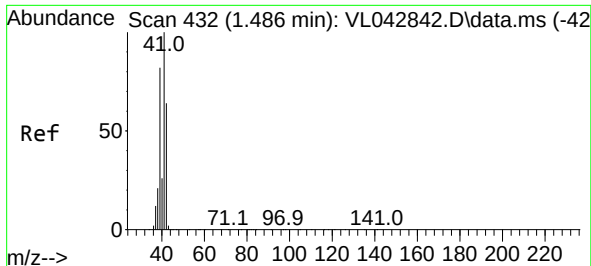
Tgt Ion: 94 Resp: 123
Ion Ratio Lower Upper
94 100
96 0.0 72.1 108.1#



#8
Dichlorotetrafluoroethane
Concen: 0.157 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.055 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 85 Resp: 2377
Ion Ratio Lower Upper
85 100
135 2.4 51.2 76.8#





#9

Propene

Concen: 0.114 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042891.D

Acq: 04 Sep 2025 15:36

Instrument :

MSVOA_L

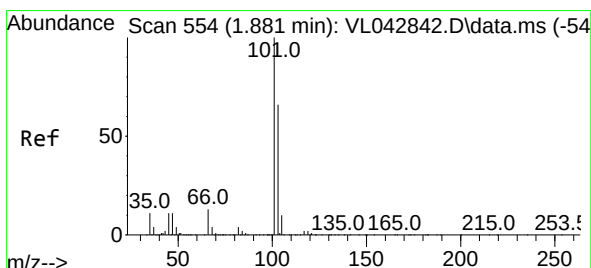
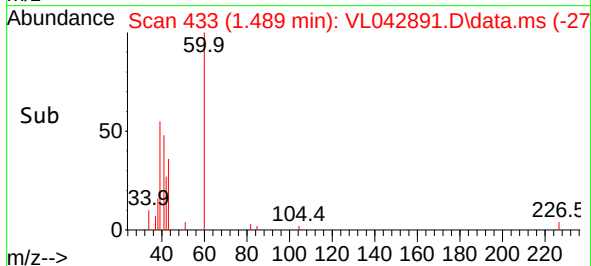
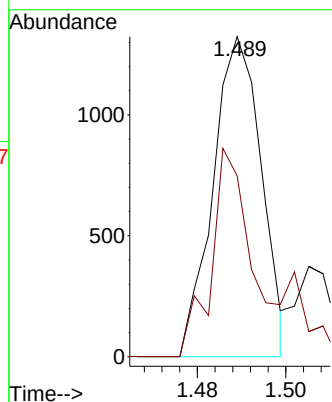
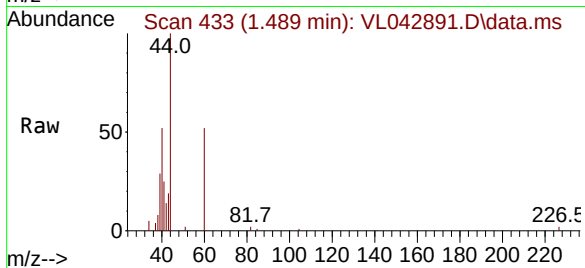
ClientSampleId :

Tgt Ion: 41 Resp: 1008

Ion Ratio Lower Upper

41 100

42 73.5 53.0 79.4



#11

Trichlorofluoromethane

Concen: 0.062 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042891.D

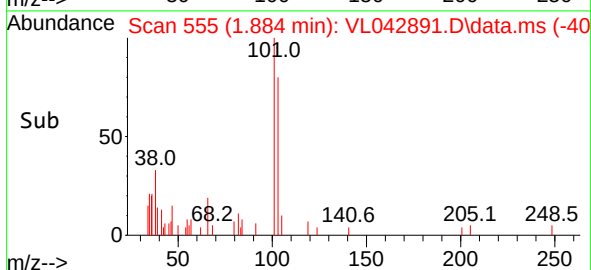
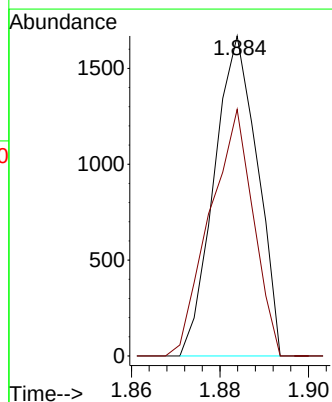
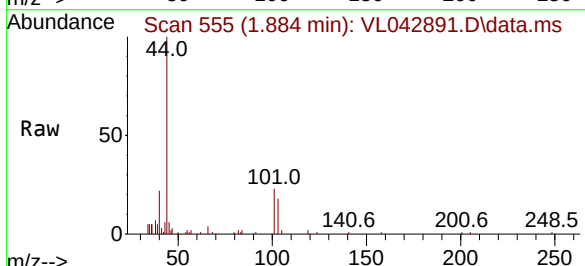
Acq: 04 Sep 2025 15:36

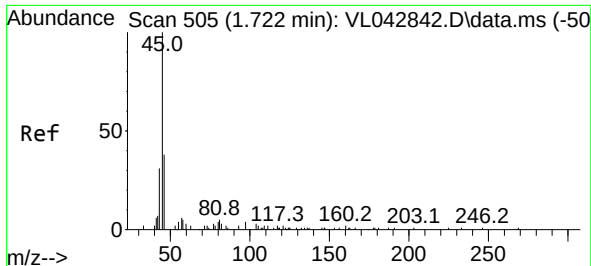
Tgt Ion: 101 Resp: 1129

Ion Ratio Lower Upper

101 100

103 77.1 52.5 78.7

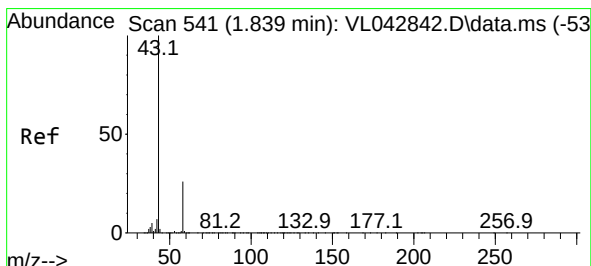
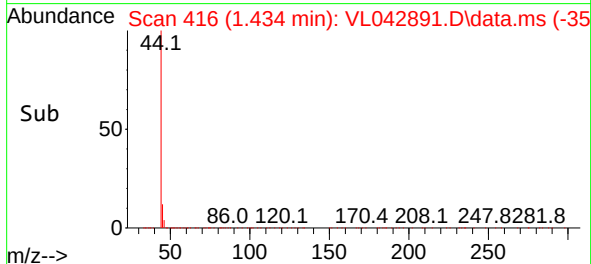
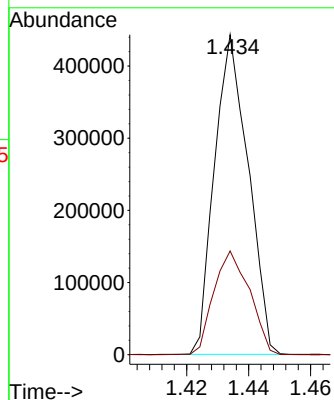
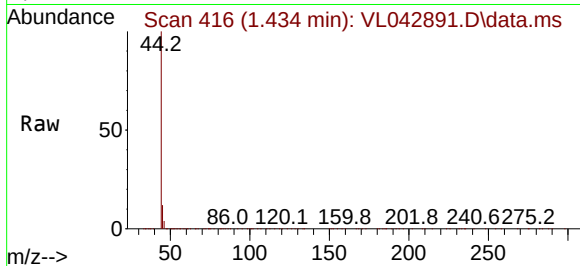




#13
Ethanol
Concen: 415.656 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.288 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

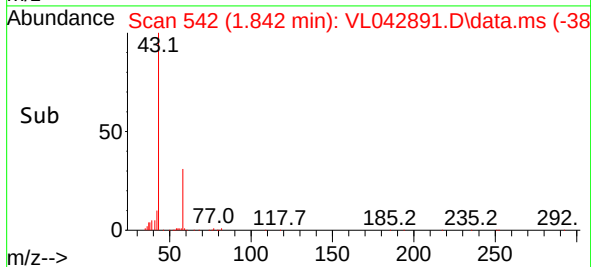
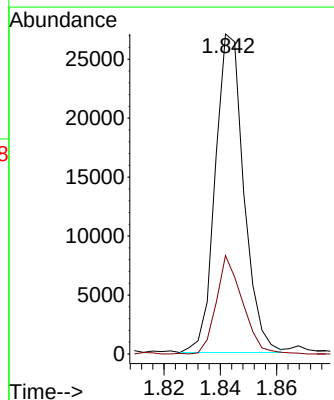
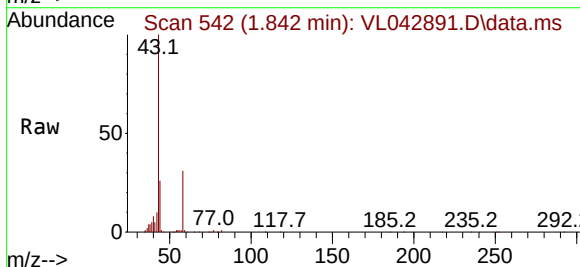
Instrument :
MSVOA_L
ClientSampleId :

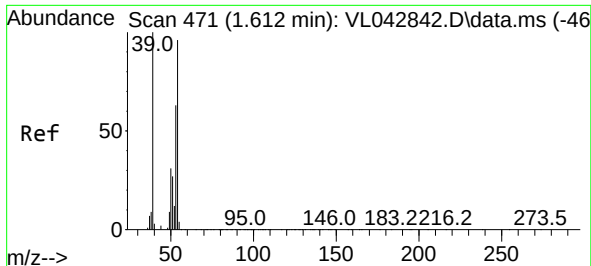
Tgt Ion: 45 Resp: 335834
Ion Ratio Lower Upper
45 100
46 34.5 17.5 69.9



#15
Acetone
Concen: 1.141 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 43 Resp: 19059
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6

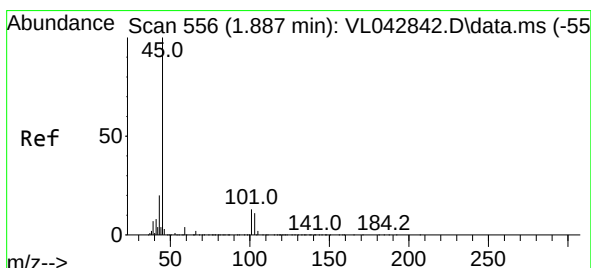
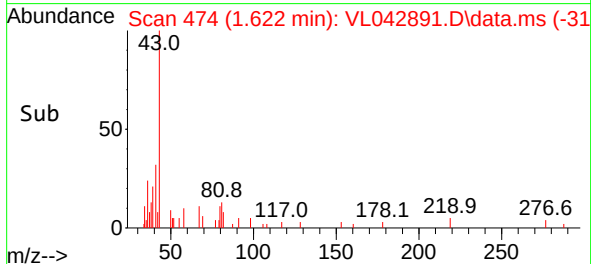
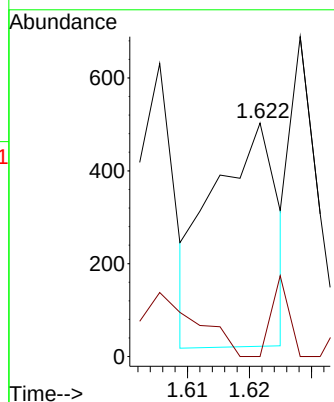
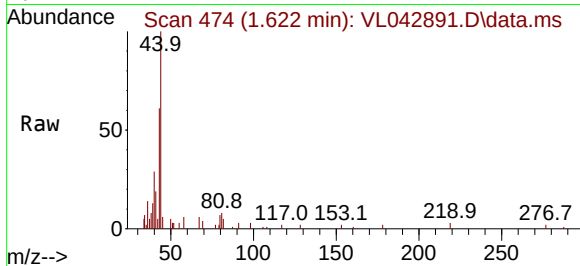




#16
1,3-Butadiene
Concen: 0.046 ppbv
RT: 1.622 min Scan# 416
Delta R.T. 0.010 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

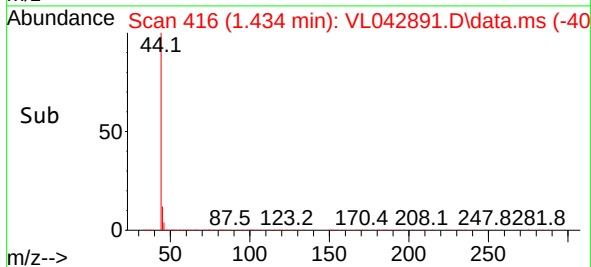
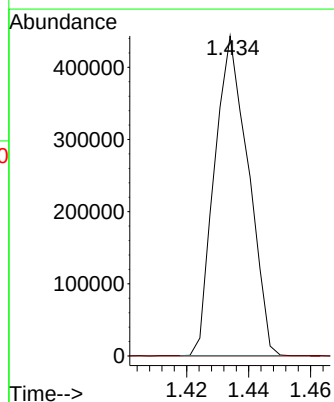
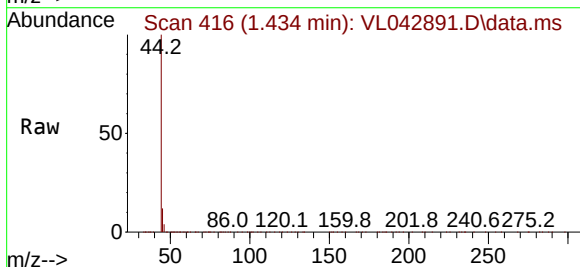
Instrument :
MSVOA_L
ClientSampleId :

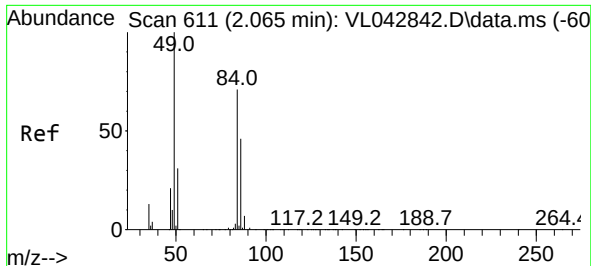
Tgt Ion: 39 Resp: 350
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#19
Isopropyl Alcohol
Concen: 33.653 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.453 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 45 Resp: 335834
Ion Ratio Lower Upper
45 100
58 0.1 32.7 49.1#





#20

Methylene Chloride

Concen: 0.330 ppbv

RT: 2.072 min Scan# 611

Delta R.T. 0.006 min

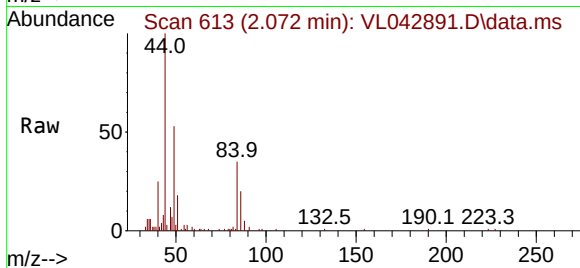
Lab File: VL042891.D

Acq: 04 Sep 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 2311

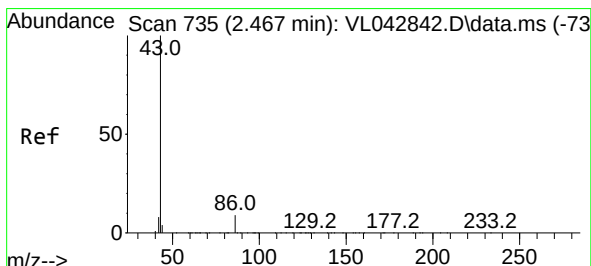
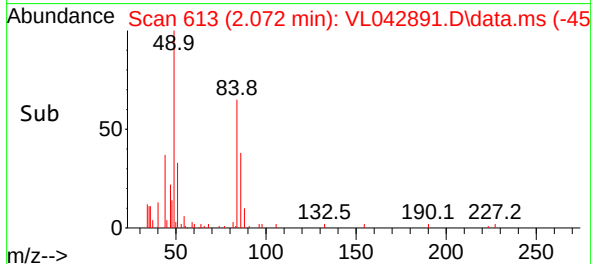
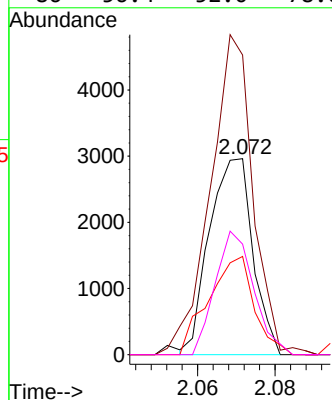
Ion Ratio Lower Upper

84 100

49 146.8 112.3 168.5

51 50.1 36.0 54.0

86 56.4 52.0 78.0



#23

Vinyl Acetate

Concen: 0.072 ppbv

RT: 2.466 min Scan# 735

Delta R.T. -0.000 min

Lab File: VL042891.D

Acq: 04 Sep 2025 15:36

Tgt Ion: 43 Resp: 1665

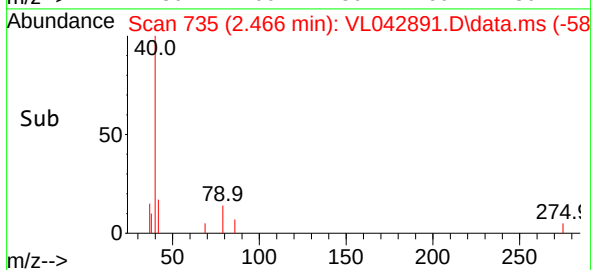
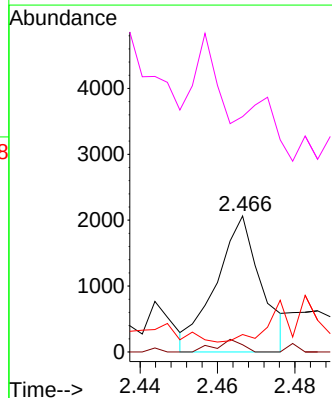
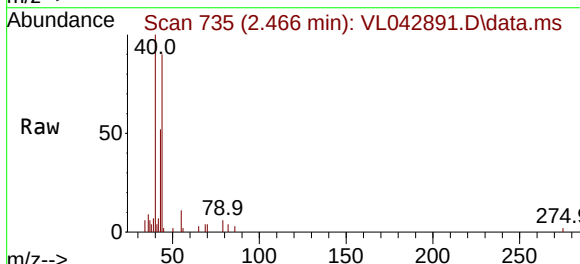
Ion Ratio Lower Upper

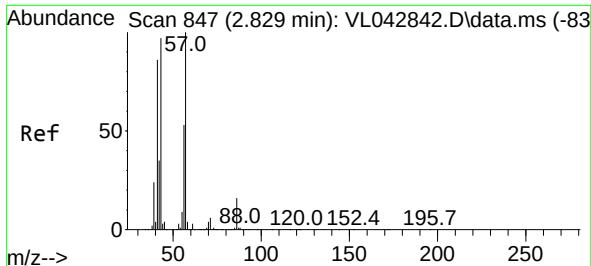
43 100

86 6.2 6.6 9.8#

42 4.5 7.0 10.6#

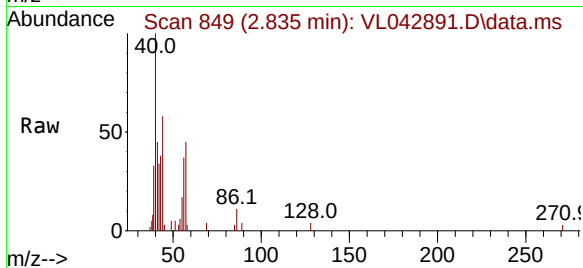
44 23.8 4.0 6.0#



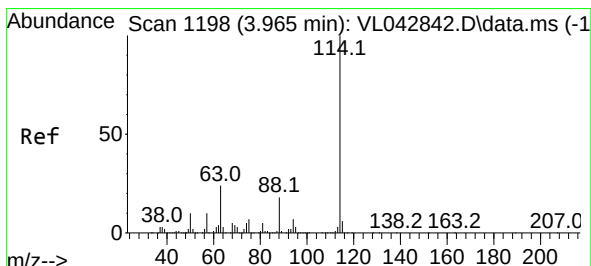
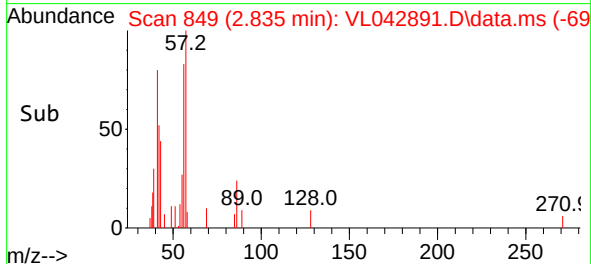
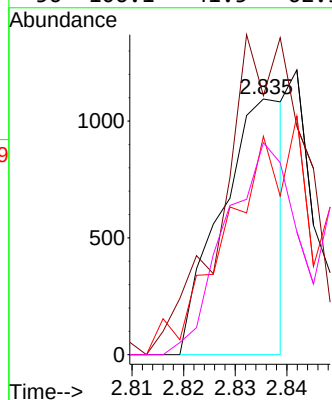


#26
Hexane
Concen: 0.050 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :

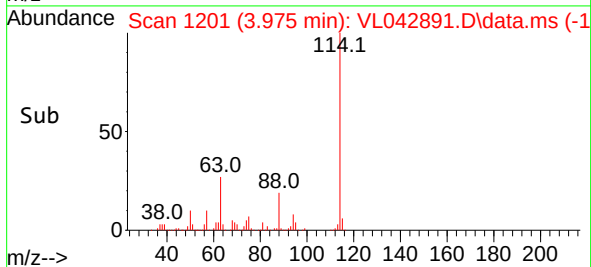
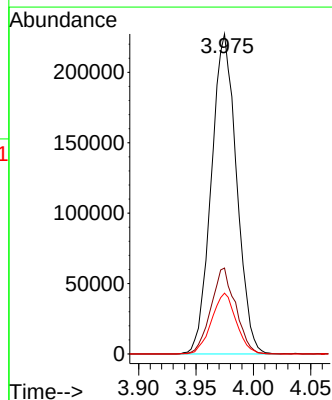
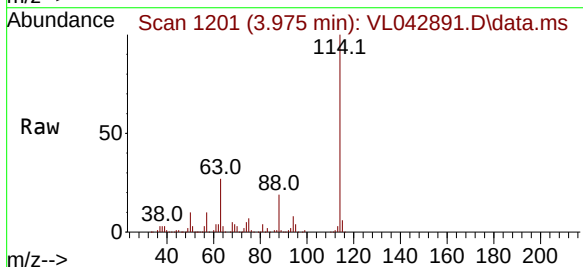


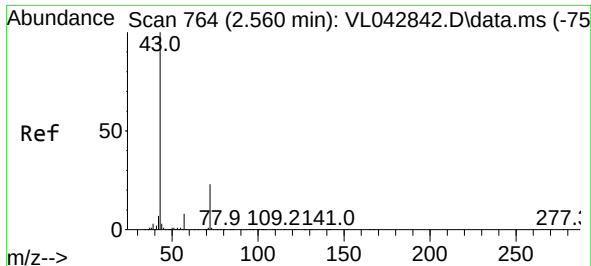
Tgt Ion: 57 Resp: 932
Ion Ratio Lower Upper
57 100
41 188.1 68.6 103.0#
43 0.0 168.5 252.7#
56 106.1 41.5 62.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.010 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 114 Resp: 347782
Ion Ratio Lower Upper
114 100
63 26.2 19.7 29.5
88 18.6 14.4 21.6

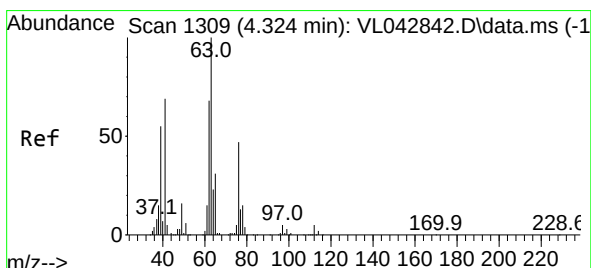
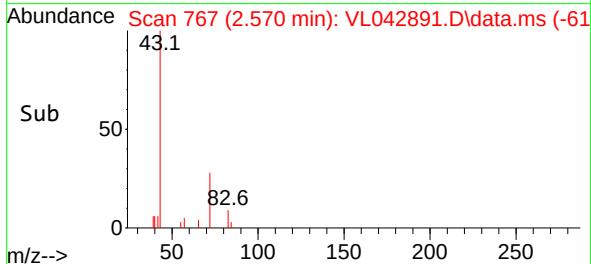
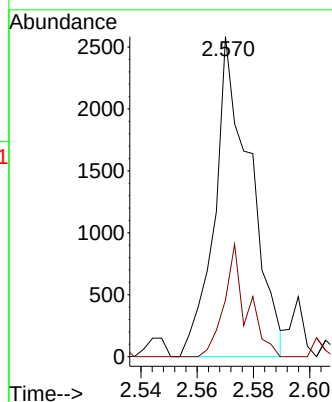
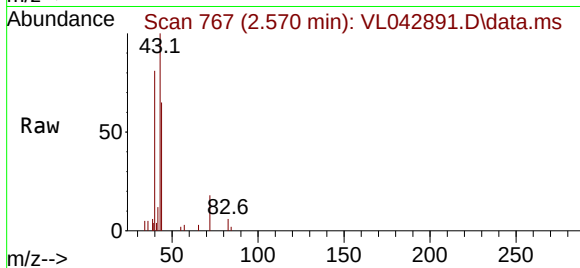




#34
2-Butanone
Concen: 0.096 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

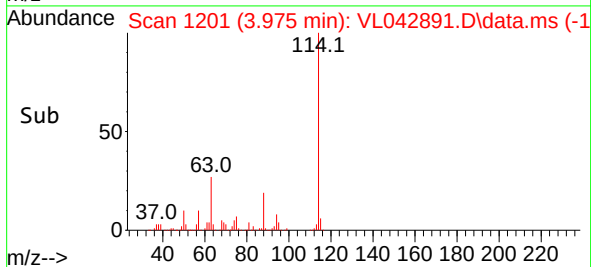
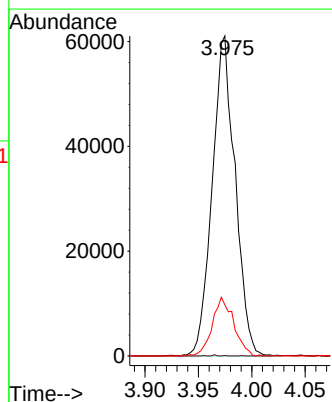
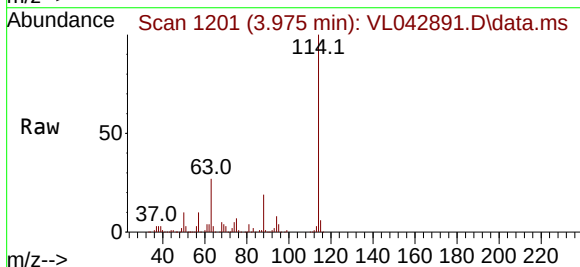
Instrument :
MSVOA_L
ClientSampleId :

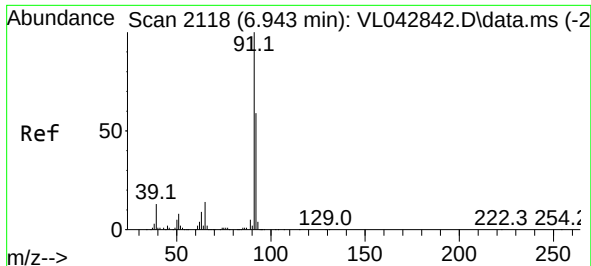
Tgt Ion: 43 Resp: 2258
Ion Ratio Lower Upper
43 100
72 22.5 18.6 28.0



#39
1,2-Dichloropropane
Concen: 7.495 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.350 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 63 Resp: 91158
Ion Ratio Lower Upper
63 100
41 0.2 55.0 82.4#
62 16.0 54.4 81.6#

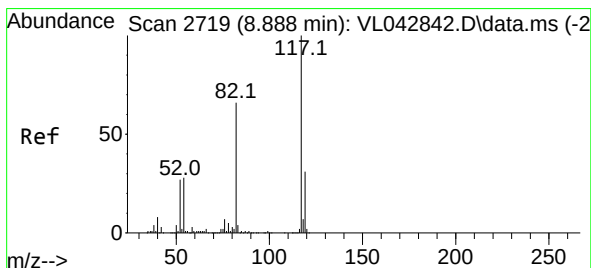
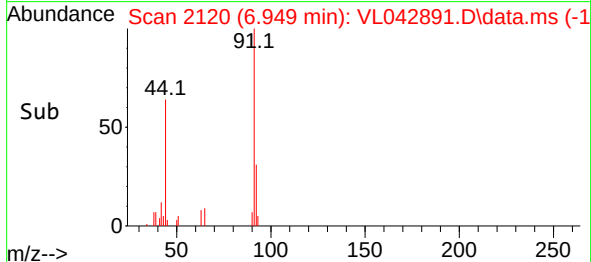
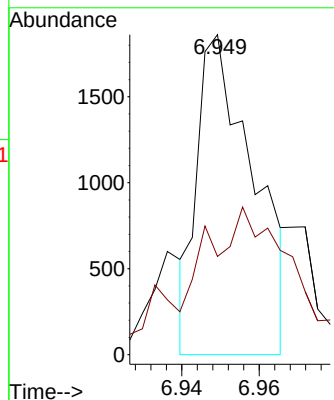
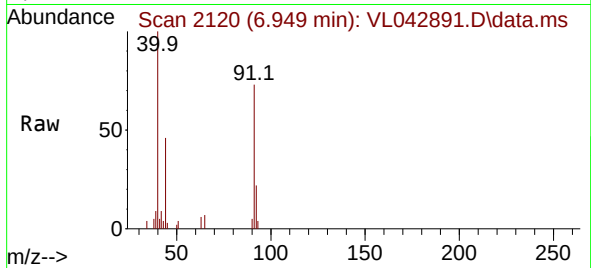




#53
Toluene
Concen: 0.047 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

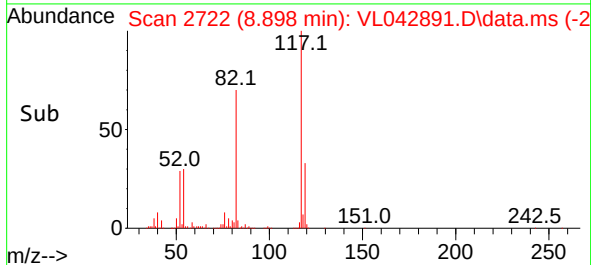
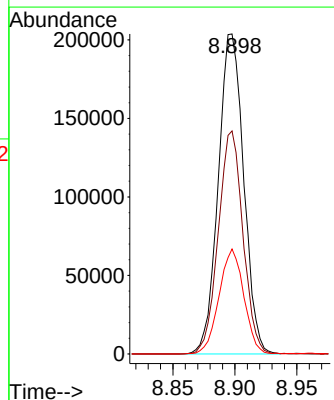
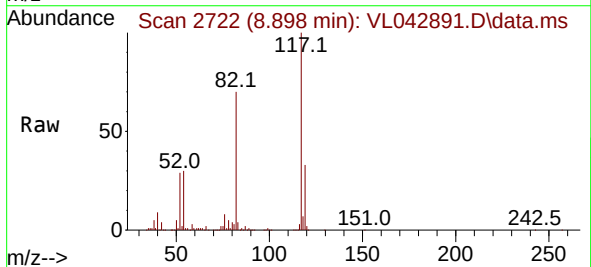
Instrument :
MSVOA_L
ClientSampleId :

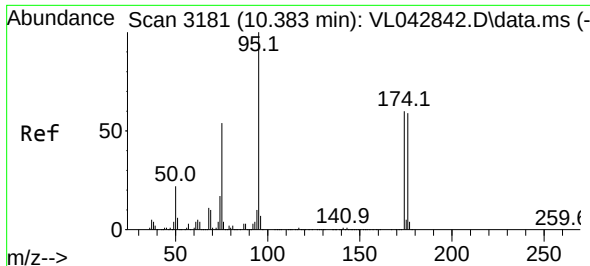
Tgt Ion: 91 Resp: 1875
Ion Ratio Lower Upper
91 100
92 83.1 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 117 Resp: 291497
Ion Ratio Lower Upper
117 100
82 67.6 54.6 81.8
119 32.2 25.9 38.9

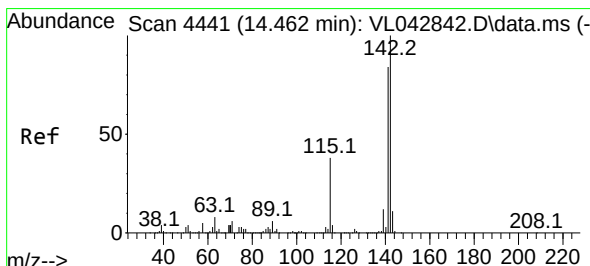
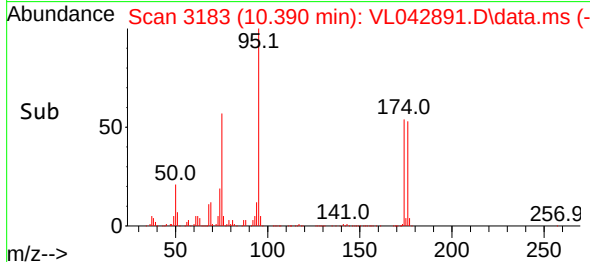
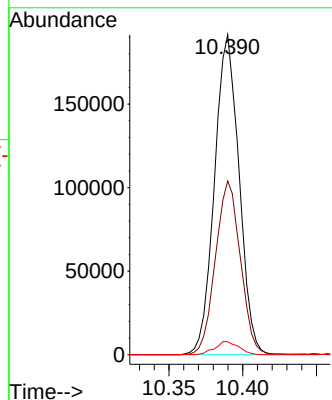
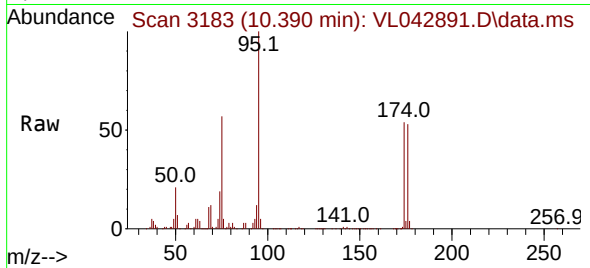




#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.006 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 221649
Ion Ratio Lower Upper
95 100
174 55.1 48.4 72.6
175 4.1 3.8 5.8



#80
Naphthalene, 2-methyl-
Concen: 0.034 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.013 min
Lab File: VL042891.D
Acq: 04 Sep 2025 15:36

Tgt Ion: 142 Resp: 534
Ion Ratio Lower Upper
142 100
141 91.9 67.0 100.6
115 32.8 30.9 46.3

