

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042859.D
 Acq On : 13 Aug 2025 19:35
 Operator : SY/MD
 Sample : Q2794-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Aug 14 02:21:32 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)

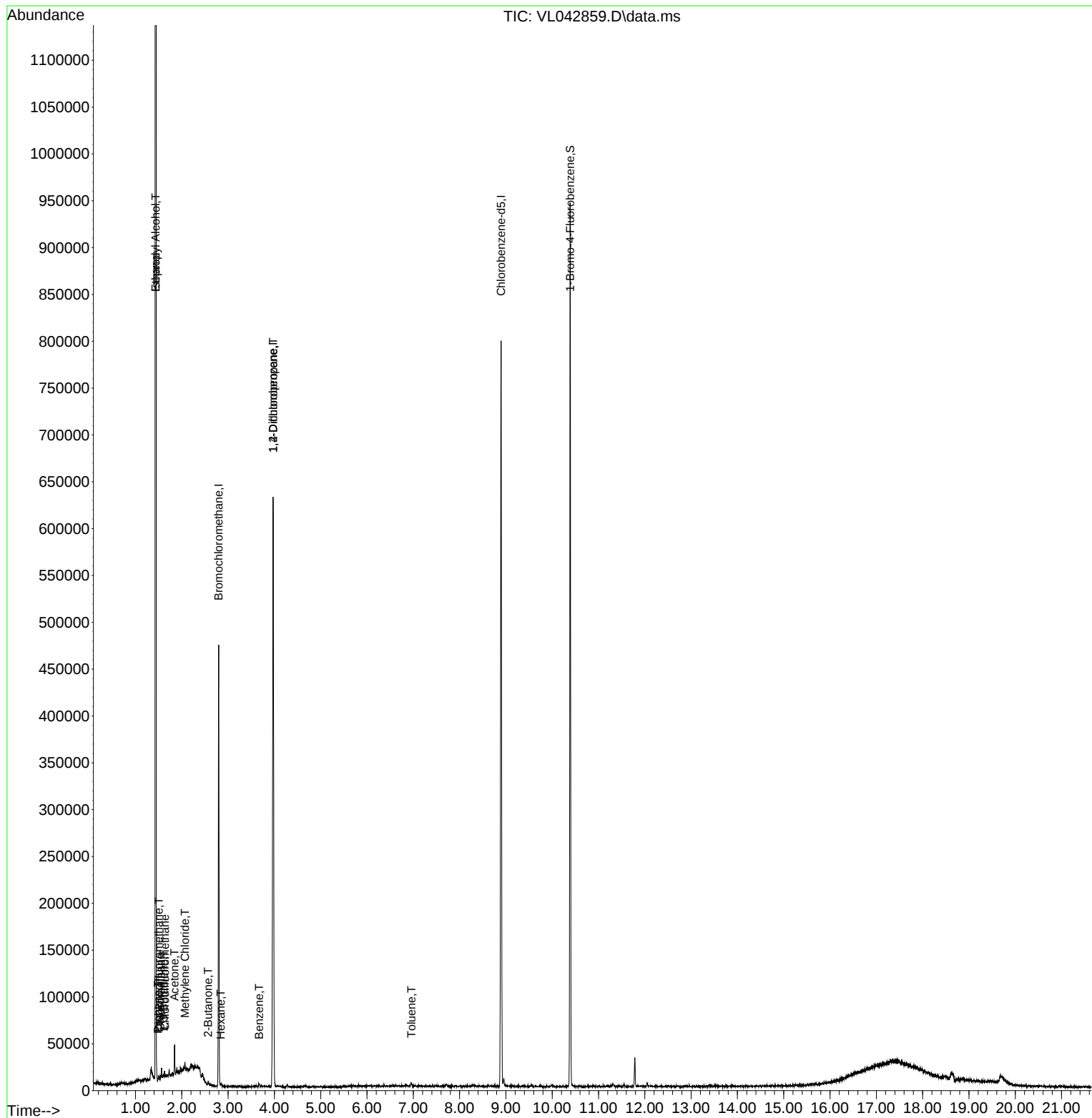
Internal Standards						
1) Bromochloromethane	2.797	49	129623	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	388934	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	330714	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	251560	10.142	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.400%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	1048	0.055	ppbv	98
3) Chlorodifluoromethane	1.635	51	474	0.023	ppbv	95
4) Chloromethane	1.538	50	357	0.047	ppbv	94
9) Propene	1.489	41	643	0.071	ppbv #	26
13) Ethanol	1.437	45	130970	157.950	ppbv #	32
15) Acetone	1.842	43	13713	0.800	ppbv	98
16) 1,3-Butadiene	1.612	39	268	0.034	ppbv #	10
19) Isopropyl Alcohol	1.437	45	130970	12.788	ppbv #	35
20) Methylene Chloride	2.068	84	1363	0.190	ppbv #	68
26) Hexane	2.839	57	529	0.028	ppbv #	1
34) 2-Butanone	2.567	43	1077	0.041	ppbv #	52
36) Benzene	3.670	78	853	0.023	ppbv #	85
39) 1,2-Dichloropropane	3.971	63	96606	7.102	ppbv #	26
53) Toluene	6.959	91	958	0.022	ppbv #	21

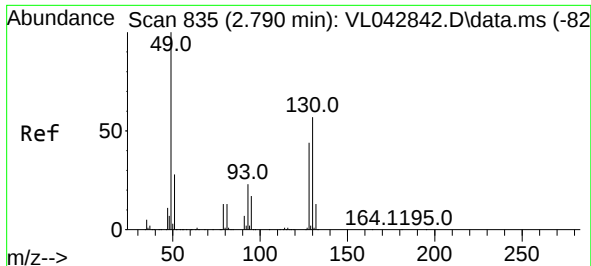
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 14 02:21:32 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

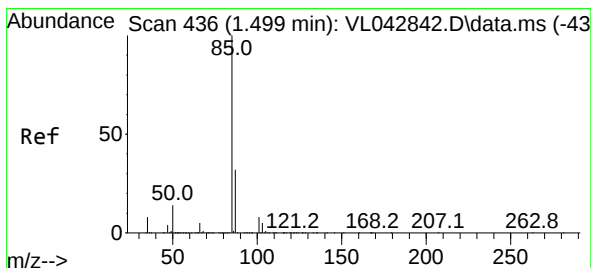
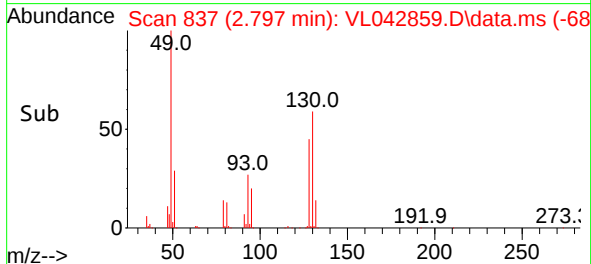
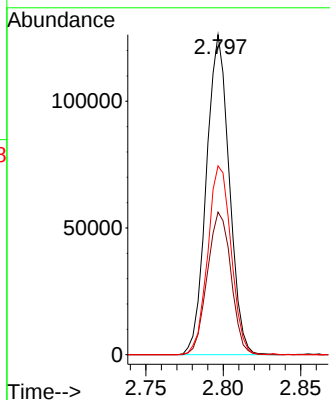
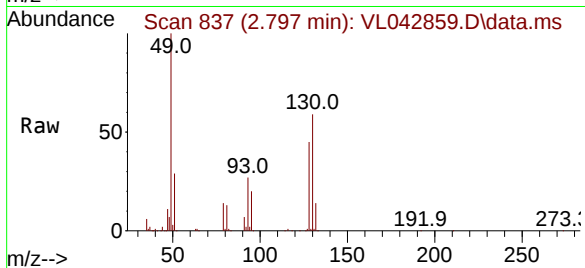




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042859.D
 Acq: 13 Aug 2025 19:35

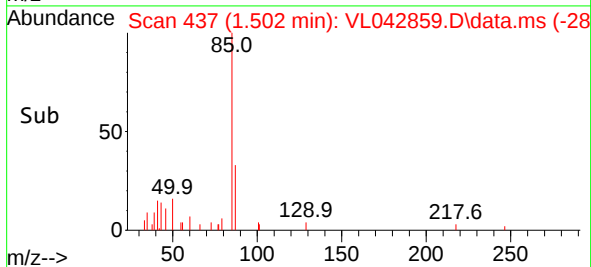
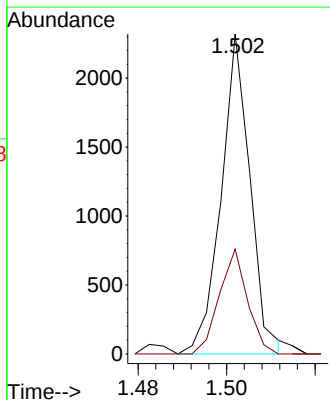
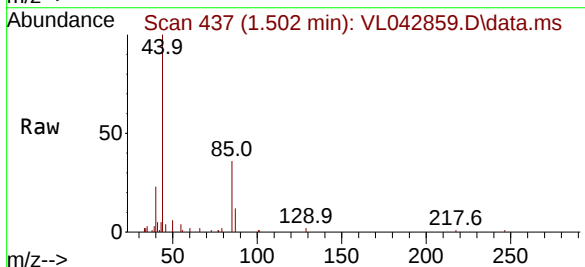
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

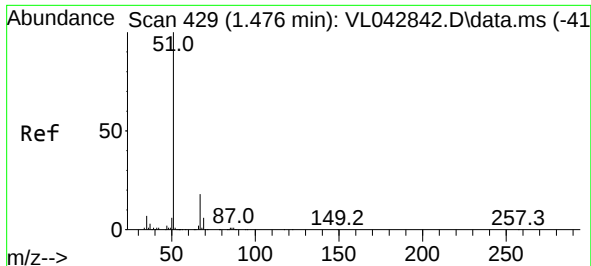
Tgt Ion: 49 Resp: 129623
 Ion Ratio Lower Upper
 49 100
 128 46.0 23.7 71.1
 130 60.4 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.055 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042859.D
 Acq: 13 Aug 2025 19:35

Tgt Ion: 85 Resp: 1048
 Ion Ratio Lower Upper
 85 100
 87 32.8 25.3 37.9

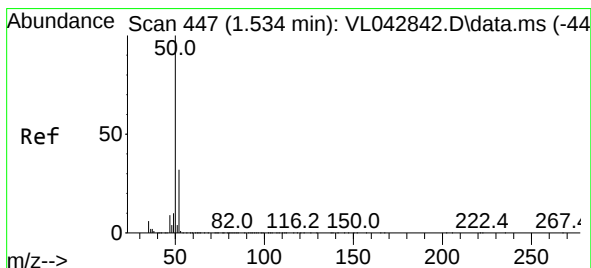
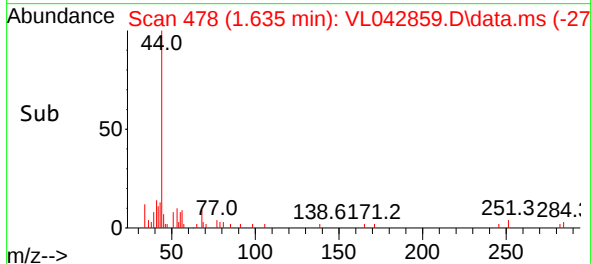
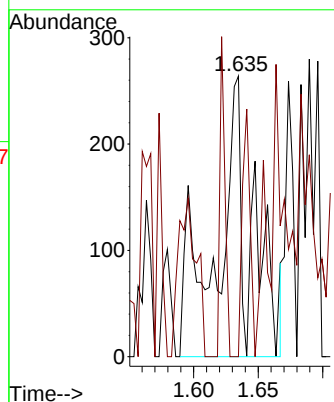
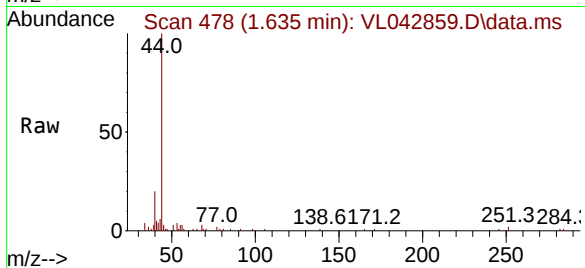




#3
Chlorodifluoromethane
Concen: 0.023 ppbv
RT: 1.635 min Scan# 41
Delta R.T. 0.158 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

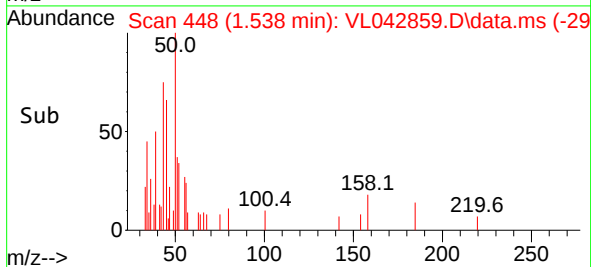
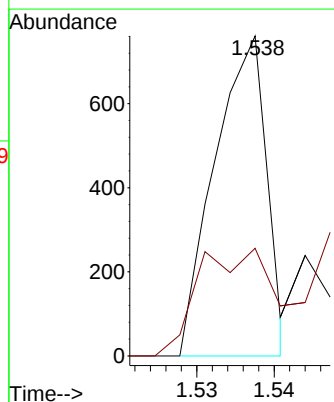
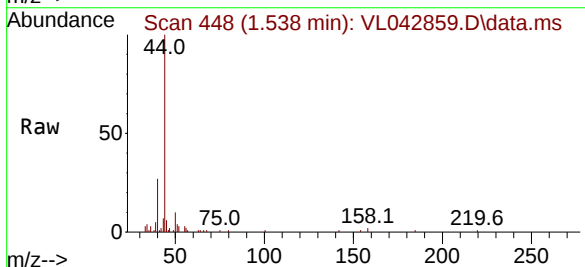
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

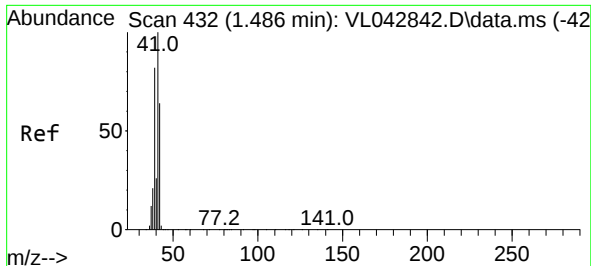
Tgt Ion: 51 Resp: 474
Ion Ratio Lower Upper
51 100
67 20.7 14.9 22.3



#4
Chloromethane
Concen: 0.047 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

Tgt Ion: 50 Resp: 357
Ion Ratio Lower Upper
50 100
52 29.1 25.9 38.9





#9

Propene

Concen: 0.071 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042859.D

Acq: 13 Aug 2025 19:35

Instrument :

MSVOA_L

ClientSampleId :

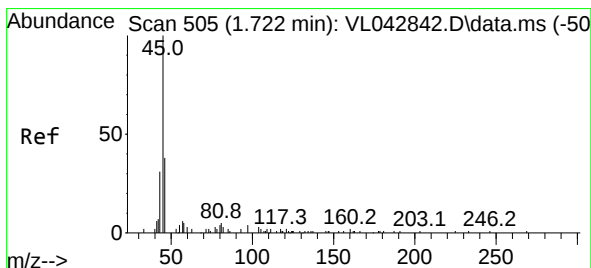
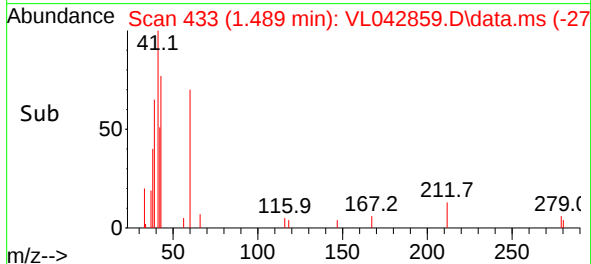
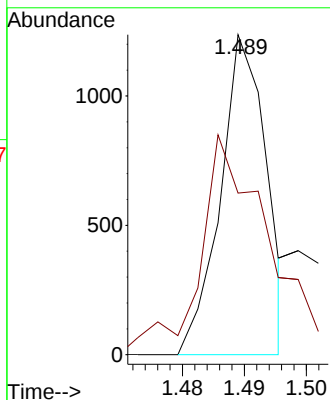
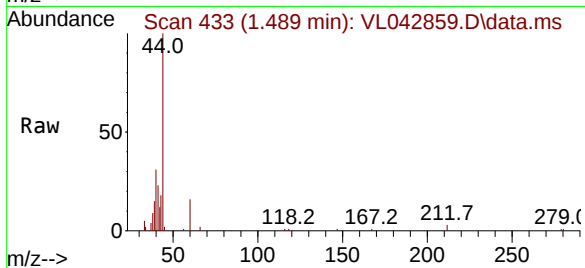
OA1DL

Tgt Ion: 41 Resp: 643

Ion Ratio Lower Upper

41 100

42 124.9 53.0 79.4#



#13

Ethanol

Concen: 157.950 ppbv

RT: 1.437 min Scan# 417

Delta R.T. -0.285 min

Lab File: VL042859.D

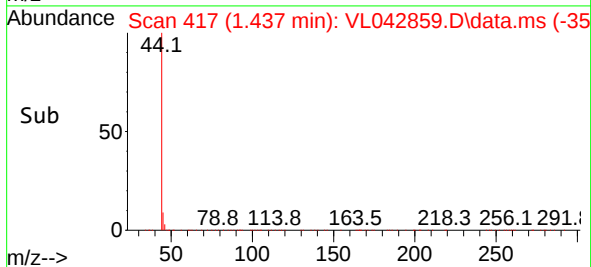
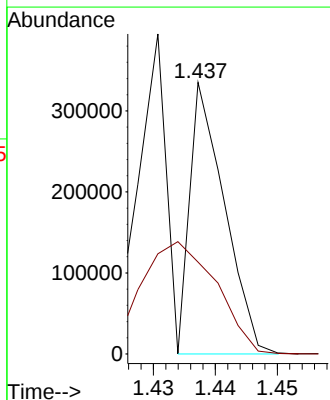
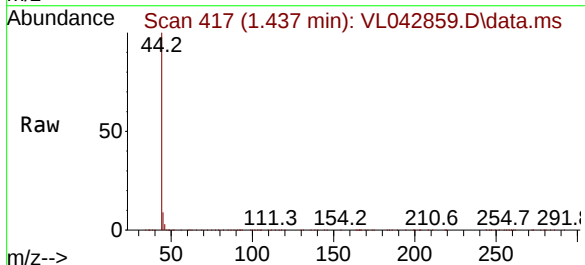
Acq: 13 Aug 2025 19:35

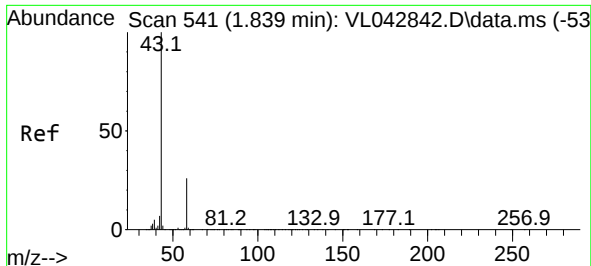
Tgt Ion: 45 Resp: 130970

Ion Ratio Lower Upper

45 100

46 0.0 17.5 69.9#





#15

Acetone

Concen: 0.800 ppbv

RT: 1.842 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL042859.D

Acq: 13 Aug 2025 19:35

Instrument :

MSVOA_L

ClientSampleId :

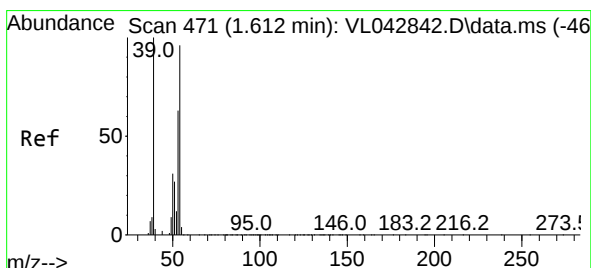
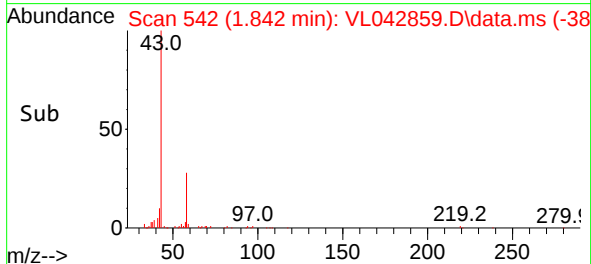
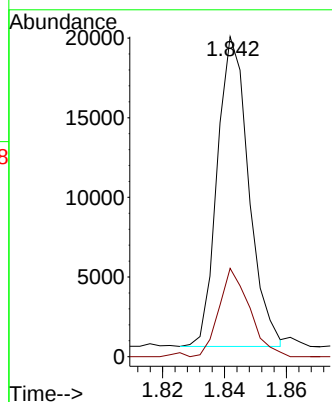
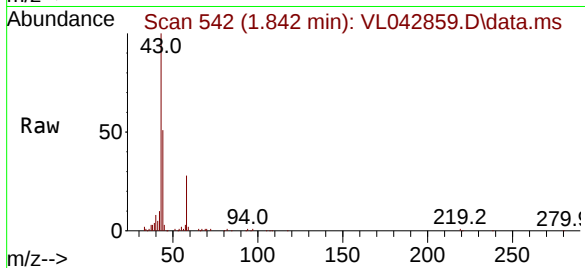
OA1DL

Tgt Ion: 43 Resp: 13713

Ion Ratio Lower Upper

43 100

58 28.9 22.4 33.6



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.000 min

Lab File: VL042859.D

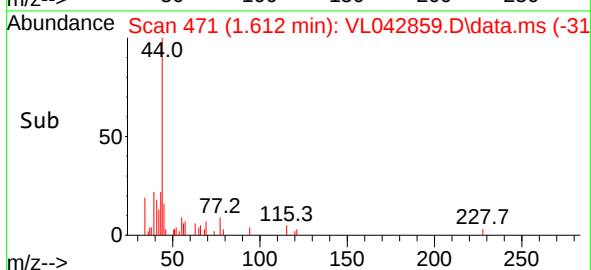
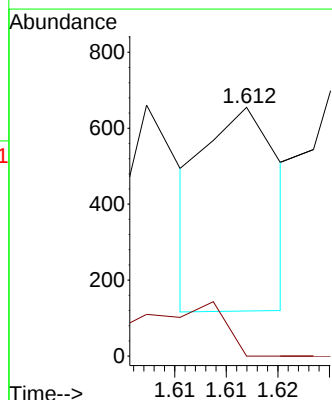
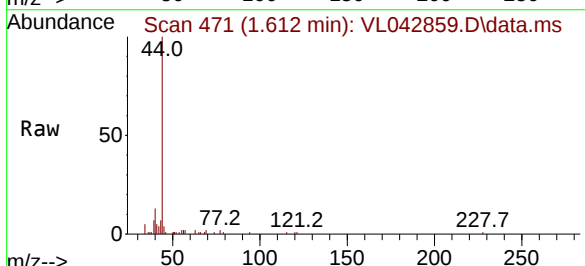
Acq: 13 Aug 2025 19:35

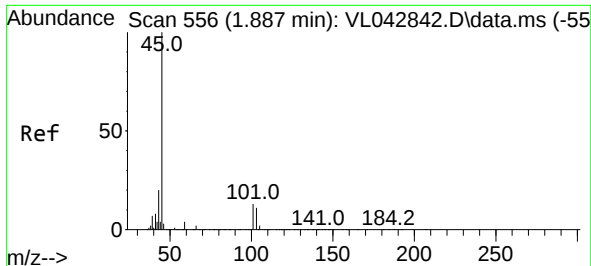
Tgt Ion: 39 Resp: 268

Ion Ratio Lower Upper

39 100

54 0.0 63.6 95.4#





#19

Isopropyl Alcohol

Concen: 12.788 ppbv

RT: 1.437 min Scan# 417

Delta R.T. -0.450 min

Lab File: VL042859.D

Acq: 13 Aug 2025 19:35

Instrument :

MSVOA_L

ClientSampleId :

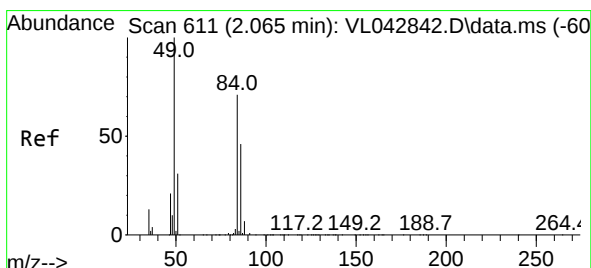
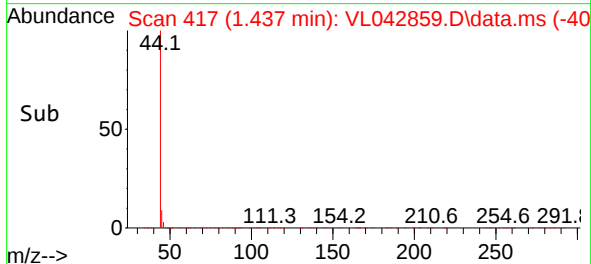
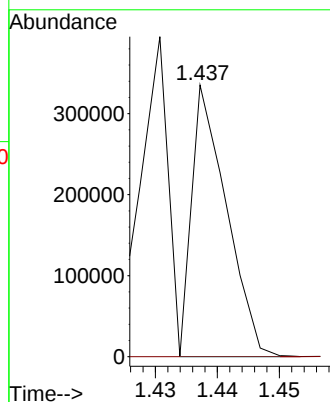
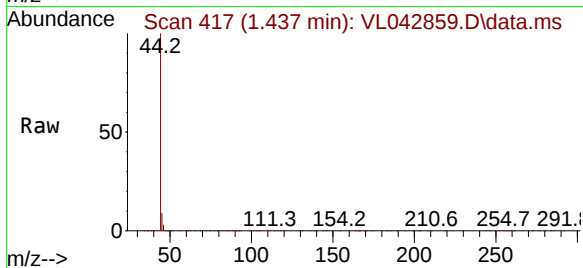
OA1DL

Tgt Ion: 45 Resp: 130970

Ion Ratio Lower Upper

45 100

58 0.1 32.7 49.1#



#20

Methylene Chloride

Concen: 0.190 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.003 min

Lab File: VL042859.D

Acq: 13 Aug 2025 19:35

Tgt Ion: 84 Resp: 1363

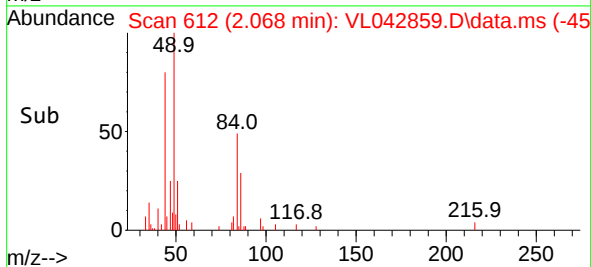
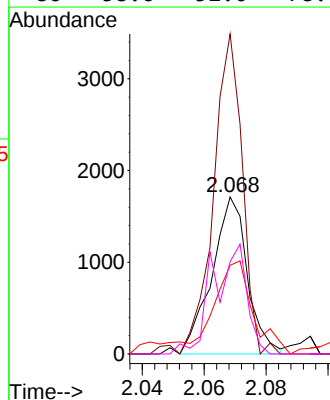
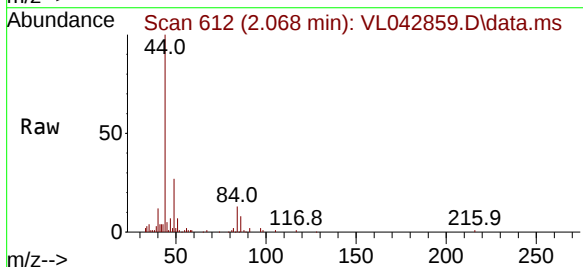
Ion Ratio Lower Upper

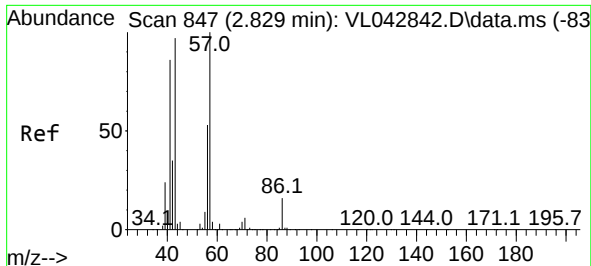
84 100

49 203.8 112.3 168.5#

51 48.9 36.0 54.0

86 58.6 52.0 78.0

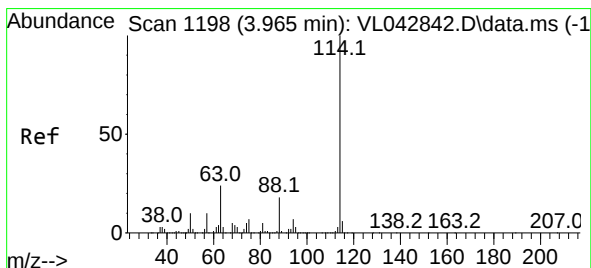
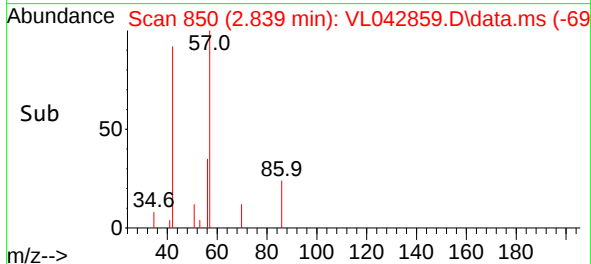
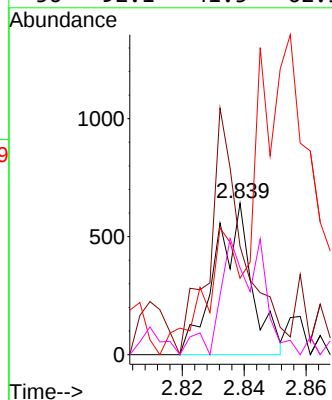
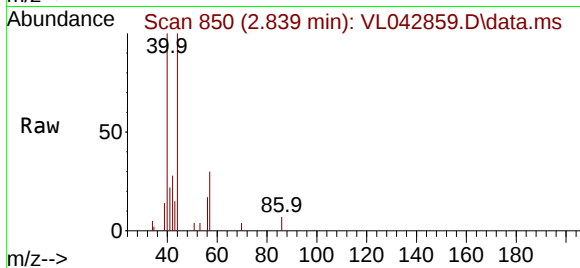




#26
Hexane
Concen: 0.028 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

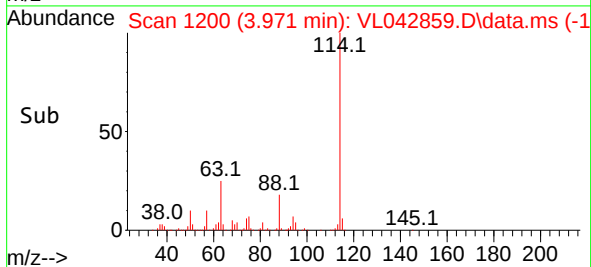
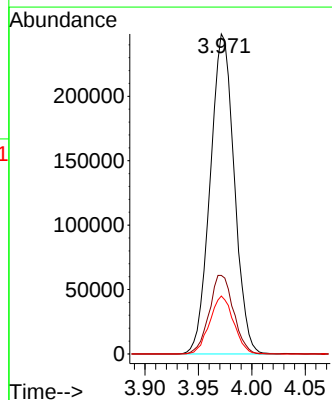
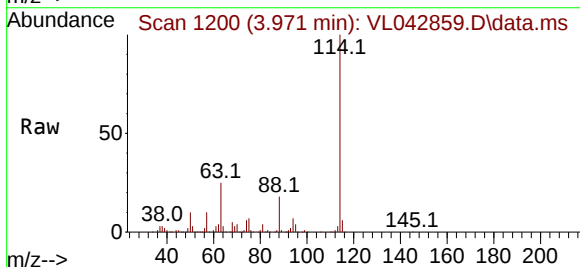
Instrument :
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OA1DL

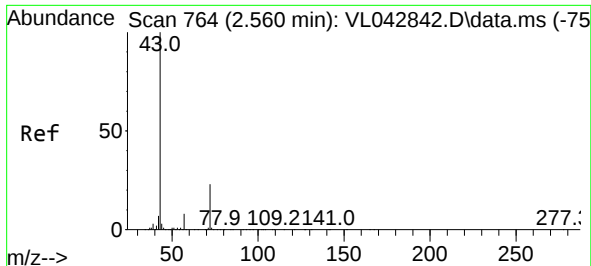
Tgt Ion: 57 Resp: 529
Ion Ratio Lower Upper
57 100
41 206.2 68.6 103.0#
43 0.0 168.5 252.7#
56 92.1 41.5 62.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. 0.006 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

Tgt Ion: 114 Resp: 388934
Ion Ratio Lower Upper
114 100
63 24.9 19.7 29.5
88 18.0 14.4 21.6

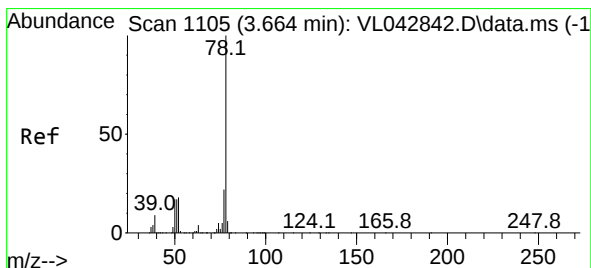
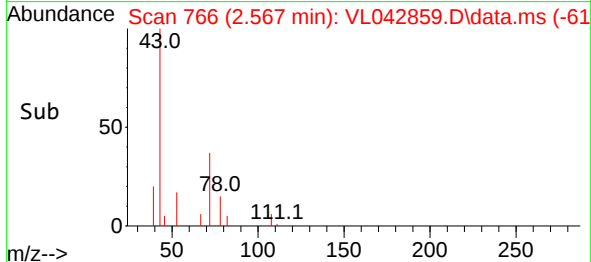
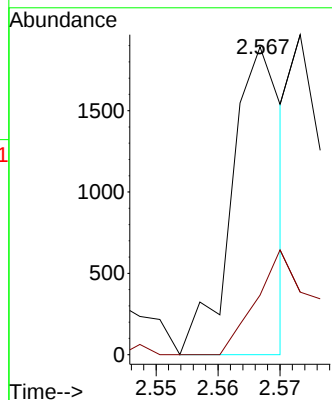
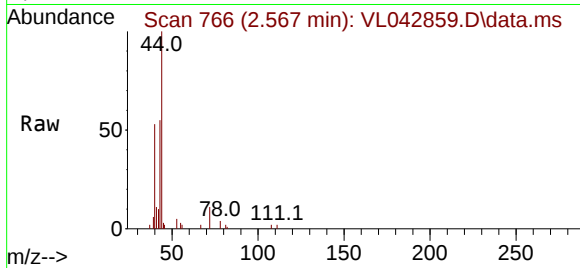




#34
2-Butanone
Concen: 0.041 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

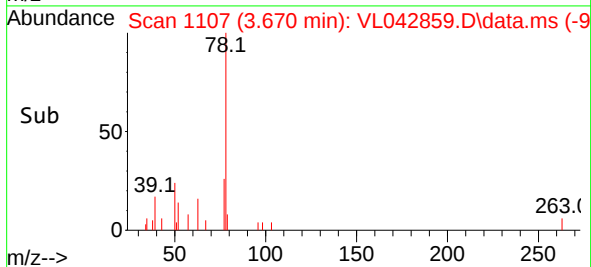
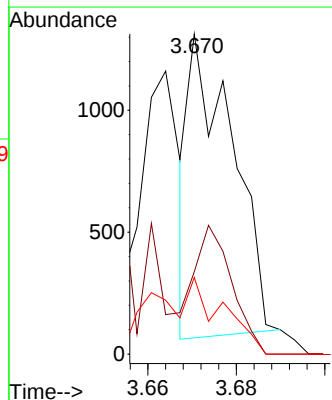
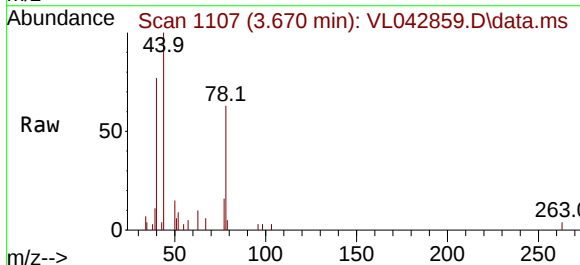
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

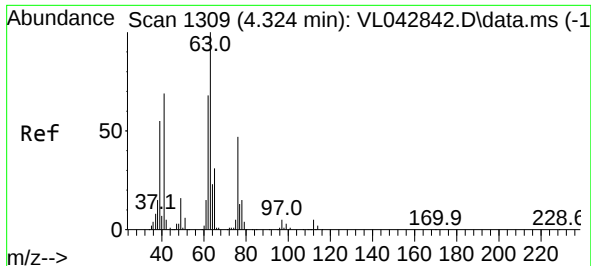
Tgt Ion: 43 Resp: 1077
Ion Ratio Lower Upper
43 100
72 0.0 18.6 28.0#



#36
Benzene
Concen: 0.023 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

Tgt Ion: 78 Resp: 853
Ion Ratio Lower Upper
78 100
77 27.9 17.7 26.5#
50 25.9 13.9 20.9#





#39

1,2-Dichloropropane

Concen: 7.102 ppbv

RT: 3.971 min Scan# 11

Delta R.T. -0.353 min

Lab File: VL042859.D

Acq: 13 Aug 2025 19:35

Instrument :

MSVOA_L

ClientSampleId :

OA1DL

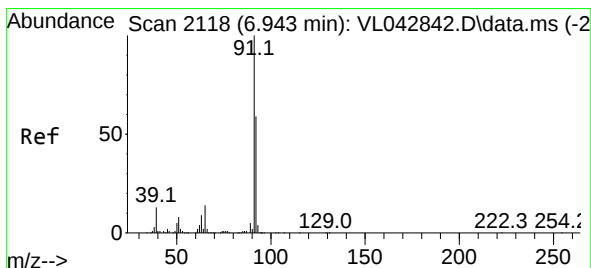
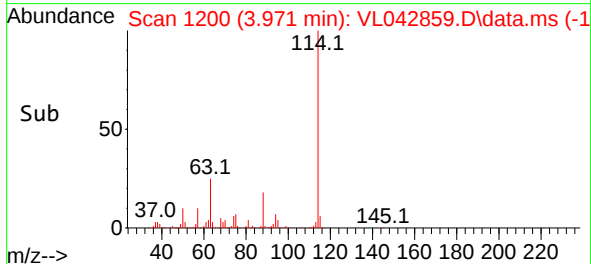
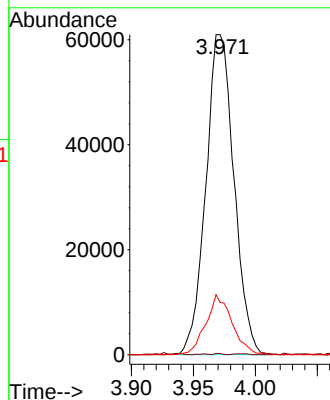
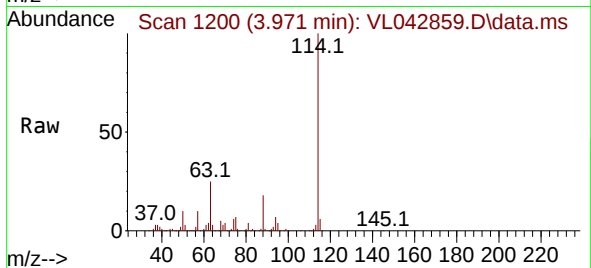
Tgt Ion: 63 Resp: 96606

Ion Ratio Lower Upper

63 100

41 0.4 55.0 82.4#

62 16.3 54.4 81.6#



#53

Toluene

Concen: 0.022 ppbv

RT: 6.959 min Scan# 2123

Delta R.T. 0.016 min

Lab File: VL042859.D

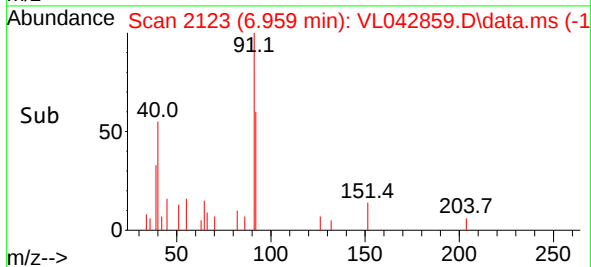
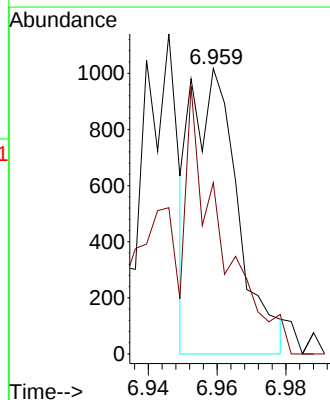
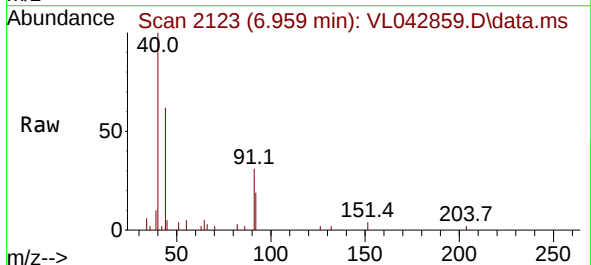
Acq: 13 Aug 2025 19:35

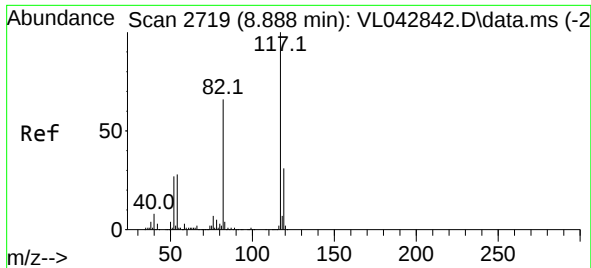
Tgt Ion: 91 Resp: 958

Ion Ratio Lower Upper

91 100

92 119.0 47.8 71.6#

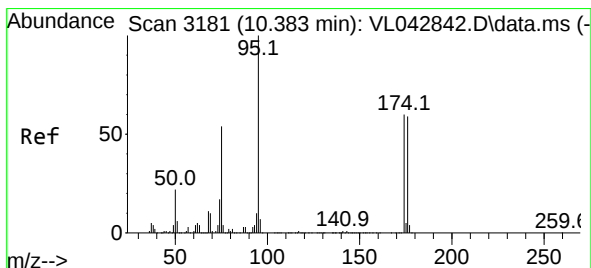
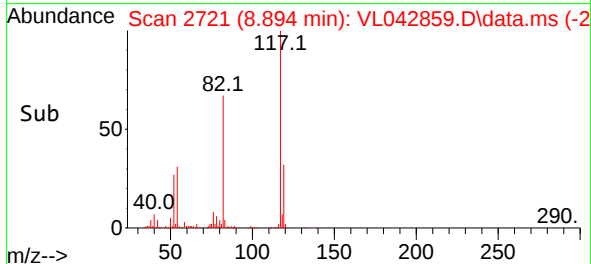
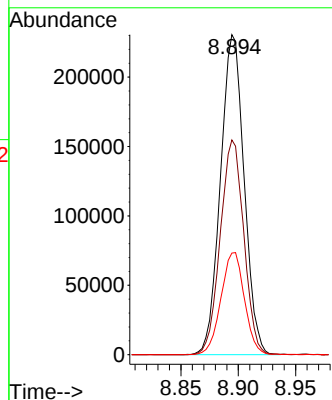
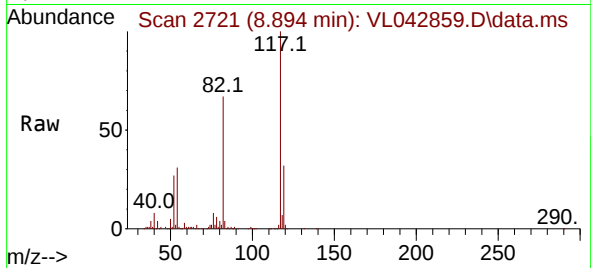




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Tgt Ion:117 Resp: 330714
Ion Ratio Lower Upper
117 100
82 66.8 54.6 81.8
119 31.8 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042859.D
Acq: 13 Aug 2025 19:35

Tgt Ion: 95 Resp: 251560
Ion Ratio Lower Upper
95 100
174 57.4 48.4 72.6
175 4.1 3.8 5.8

