

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042917.D
 Acq On : 09 Sep 2025 07:48
 Operator : SY/MD
 Sample : Q3052-02 40X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Sep 10 03:59:34 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 : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	137371	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	332138	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	285976	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	226787	10.574	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%

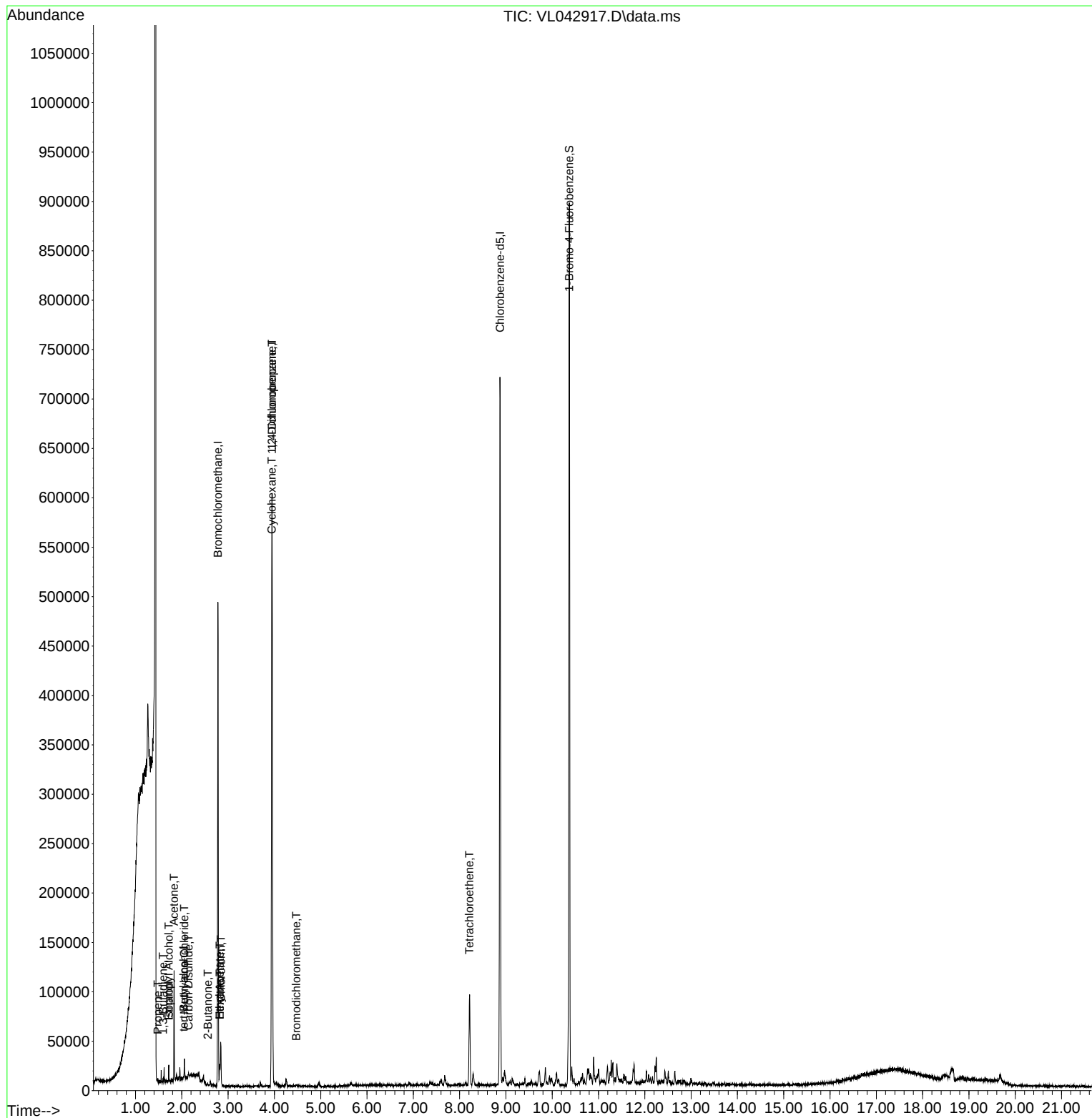
Target Compounds						Qvalue
9) Propene	1.480	41	922	0.096	ppbv #	78
13) Ethanol	1.719	45	4830	5.496	ppbv #	32
15) Acetone	1.832	43	44097	2.427	ppbv	98
16) 1,3-Butadiene	1.593	39	581	0.071	ppbv #	41
17) tert-Butyl alcohol	2.043	59	864	0.040	ppbv #	87
19) Isopropyl Alcohol	1.719	45	4830	0.445	ppbv #	1
20) Methylene Chloride	2.056	84	2936	0.386	ppbv #	88
25) Ethyl Acetate	2.820	43	3072	0.070	ppbv #	82
26) Hexane	2.820	57	3612	0.178	ppbv #	34
27) Carbon Disulfide	2.143	76	1944	0.098	ppbv #	1
29) Chloroform	2.845	83	16720	0.577	ppbv	99
30) Cyclohexane	3.943	84	1853	0.104	ppbv #	1
34) 2-Butanone	2.561	43	1121	0.050	ppbv #	83
39) 1,2-Dichloropropane	3.946	63	89089	7.670	ppbv #	25
42) Bromodichloromethane	4.473	83	1123	0.045	ppbv #	65
52) Tetrachloroethene	8.212	164	15290	1.329	ppbv	96

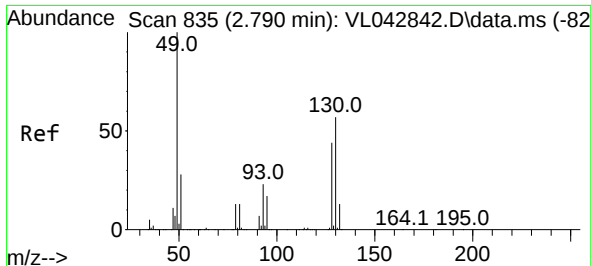
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 10 03:59:34 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
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Response via : Initial Calibration

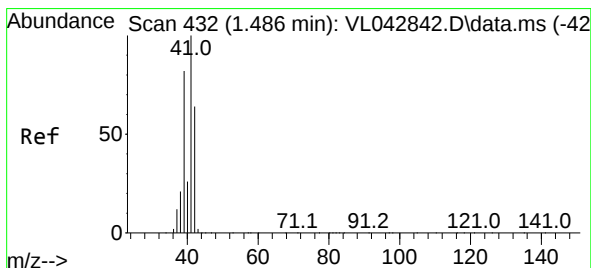
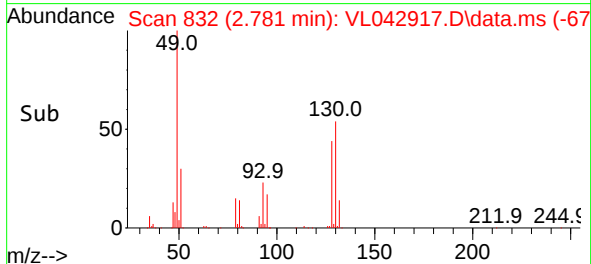
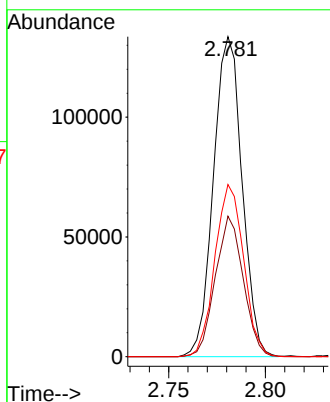
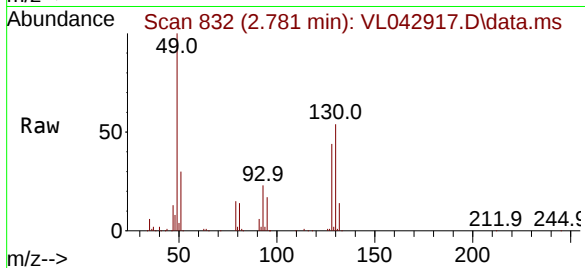




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

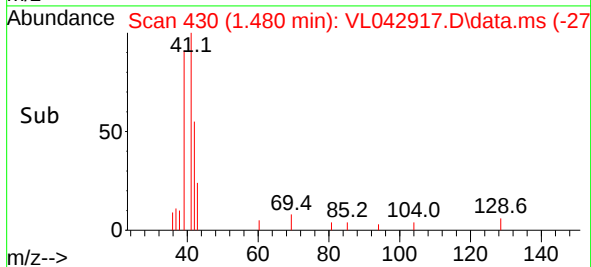
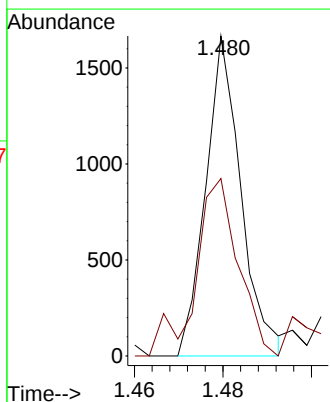
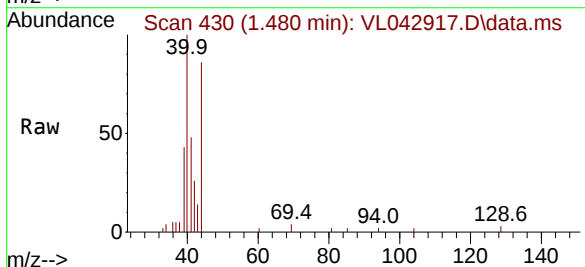
Instrument :
MSVOA_L
ClientSampleId :
SV2

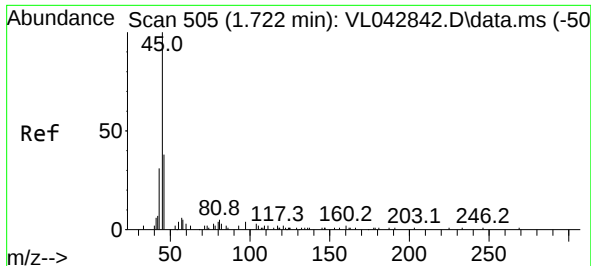
Tgt Ion: 49 Resp: 137371
Ion Ratio Lower Upper
49 100
128 42.9 23.7 71.1
130 54.0 30.6 91.6



#9
Propene
Concen: 0.096 ppbv
RT: 1.480 min Scan# 430
Delta R.T. 0.003 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 41 Resp: 922
Ion Ratio Lower Upper
41 100
42 83.5 53.0 79.4#

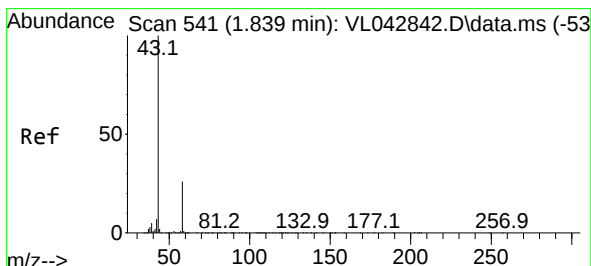
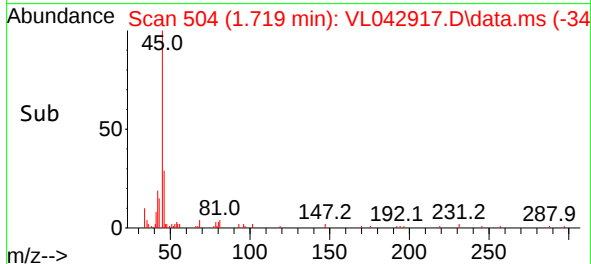
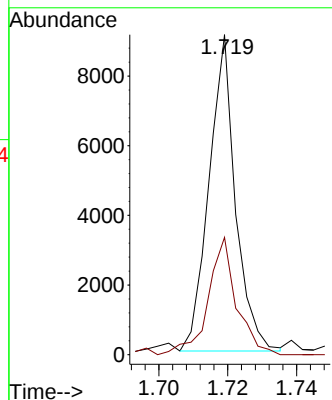
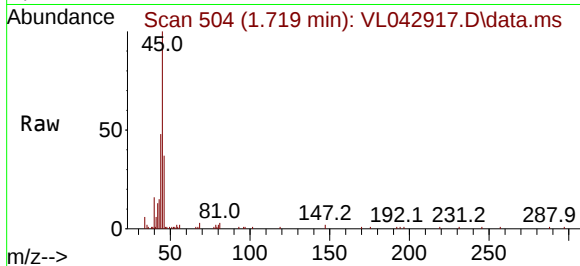




#13
 Ethanol
 Concen: 5.496 ppbv
 RT: 1.719 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042917.D
 Acq: 09 Sep 2025 07:48

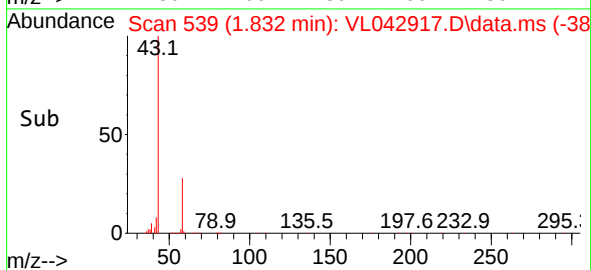
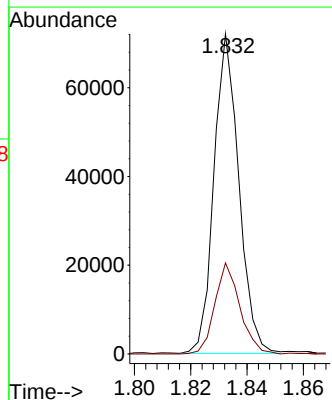
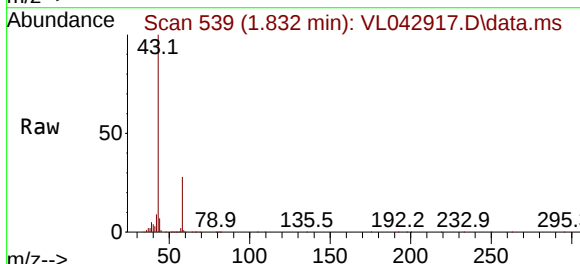
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

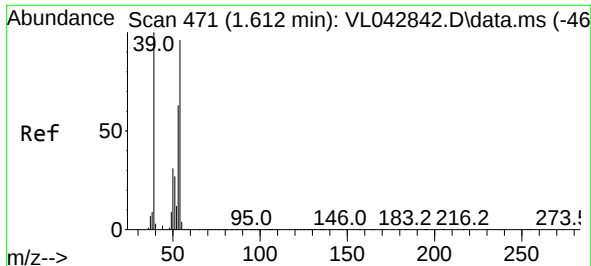
Tgt Ion: 45 Resp: 4830
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.5 69.9#



#15
 Acetone
 Concen: 2.427 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. 0.003 min
 Lab File: VL042917.D
 Acq: 09 Sep 2025 07:48

Tgt Ion: 43 Resp: 44097
 Ion Ratio Lower Upper
 43 100
 58 28.8 22.4 33.6





#16

1,3-Butadiene

Concen: 0.071 ppbv

RT: 1.593 min Scan# 4

Delta R.T. -0.010 min

Lab File: VL042917.D

Acq: 09 Sep 2025 07:48

Instrument :

MSVOA_L

ClientSampleId :

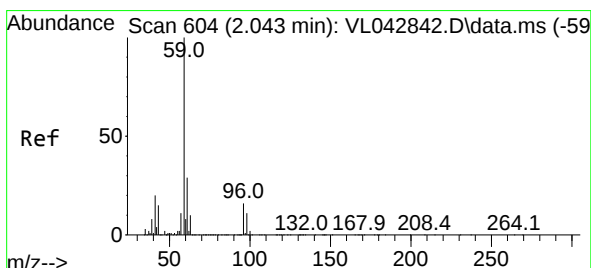
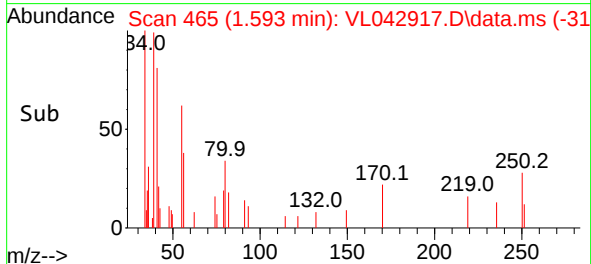
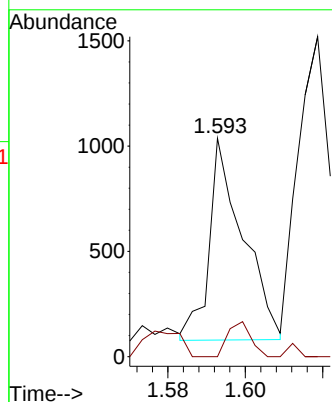
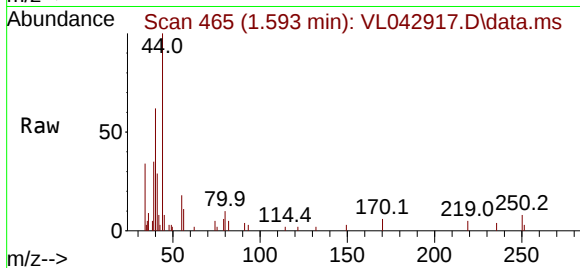
SV2

Tgt Ion: 39 Resp: 581

Ion Ratio Lower Upper

39 100

54 27.9 63.6 95.4#



#17

tert-Butyl alcohol

Concen: 0.040 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.010 min

Lab File: VL042917.D

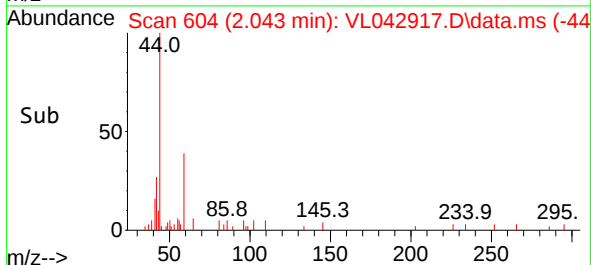
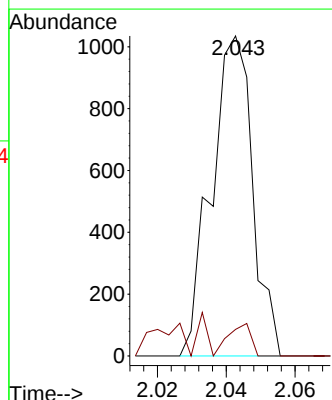
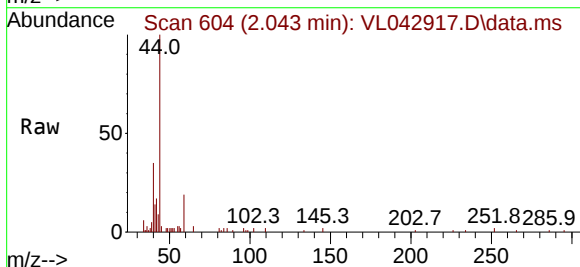
Acq: 09 Sep 2025 07:48

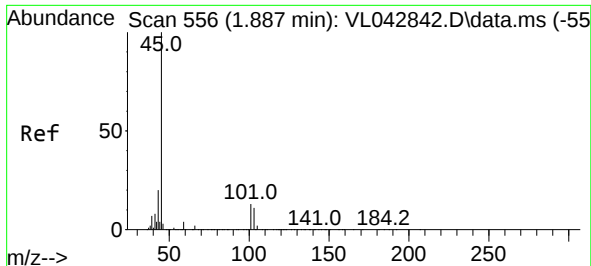
Tgt Ion: 59 Resp: 864

Ion Ratio Lower Upper

59 100

57 16.3 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 0.445 ppbv

RT: 1.719 min Scan# 50

Delta R.T. -0.162 min

Lab File: VL042917.D

Acq: 09 Sep 2025 07:48

Instrument :

MSVOA_L

ClientSampleId :

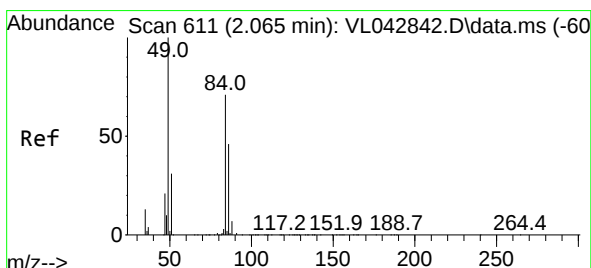
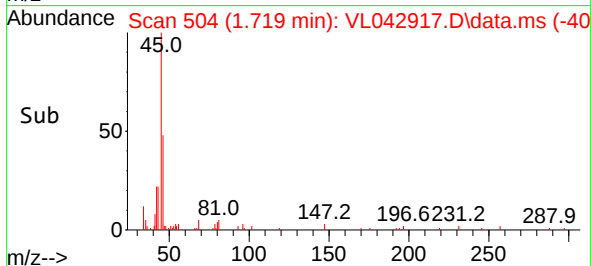
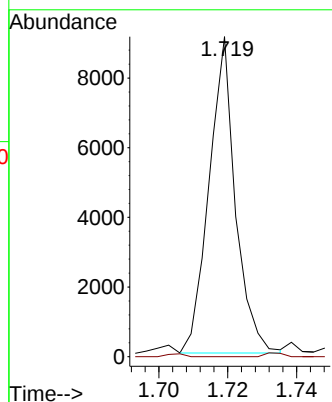
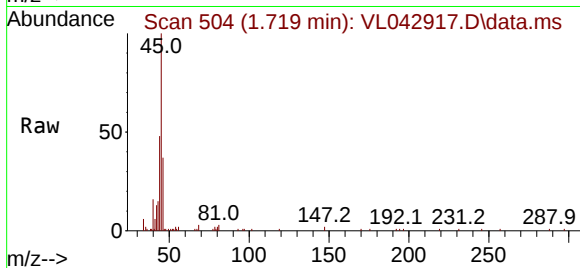
SV2

Tgt Ion: 45 Resp: 4830

Ion Ratio Lower Upper

45 100

58 263.2 32.7 49.1#



#20

Methylene Chloride

Concen: 0.386 ppbv

RT: 2.056 min Scan# 608

Delta R.T. 0.000 min

Lab File: VL042917.D

Acq: 09 Sep 2025 07:48

Tgt Ion: 84 Resp: 2936

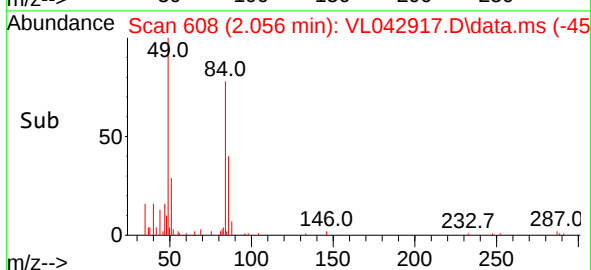
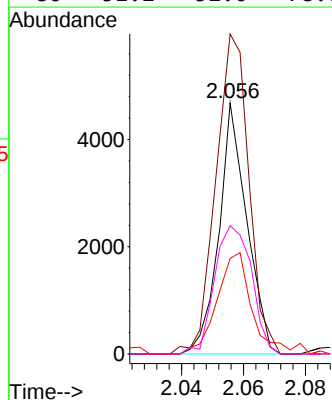
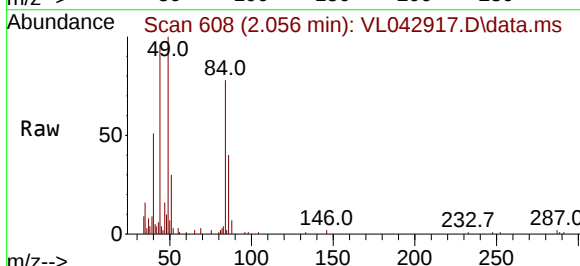
Ion Ratio Lower Upper

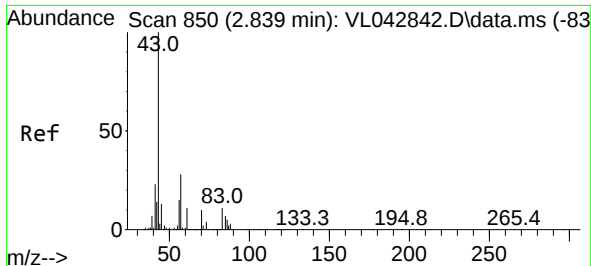
84 100

49 127.6 112.3 168.5

51 38.1 36.0 54.0

86 51.2 52.0 78.0#

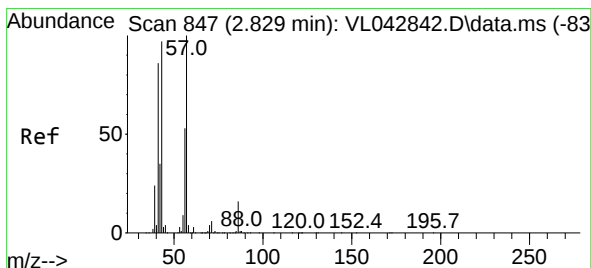
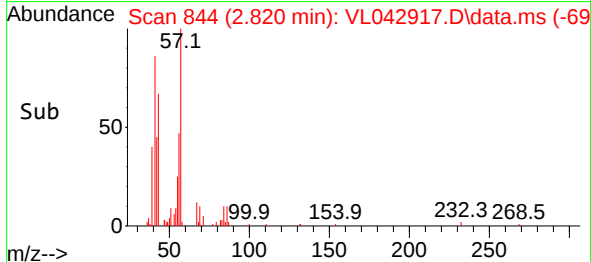
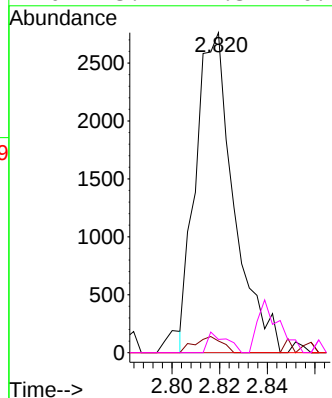
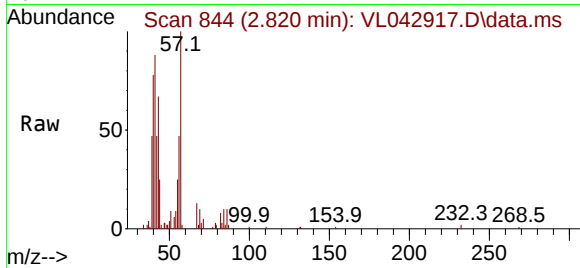




#25
Ethyl Acetate
Concen: 0.070 ppbv
RT: 2.820 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

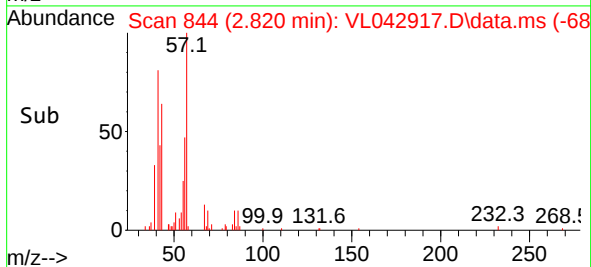
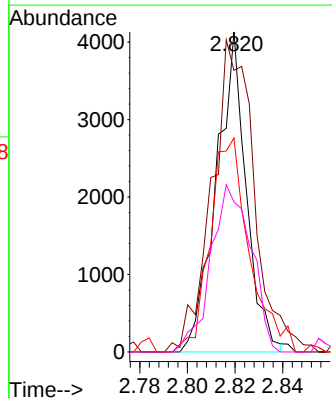
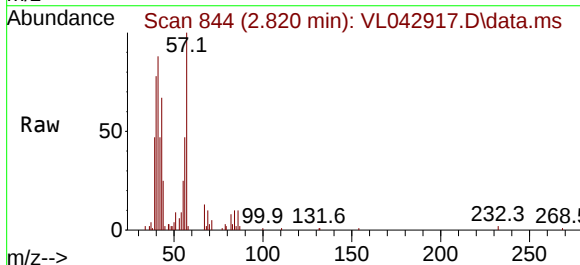
Instrument :
MSVOA_L
ClientSampleId :
SV2

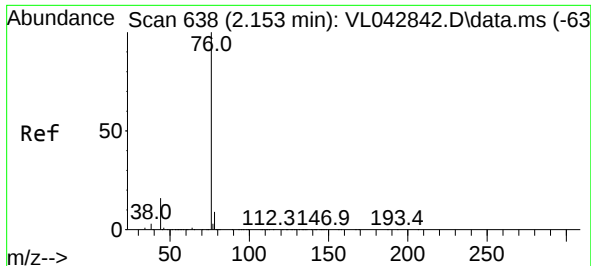
Tgt Ion: 43	Resp: 3072
Ion Ratio	Lower Upper
43 100	
45 3.6	8.1 12.1#
61 0.0	7.4 11.2#
70 13.1	7.3 10.9#



#26
Hexane
Concen: 0.178 ppbv
RT: 2.820 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 57	Resp: 3612
Ion Ratio	Lower Upper
57 100	
41 143.5	68.6 103.0#
43 90.9	168.5 252.7#
56 70.0	41.5 62.3#





#27

Carbon Disulfide

Concen: 0.098 ppbv

RT: 2.143 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042917.D

Acq: 09 Sep 2025 07:48

Instrument :

MSVOA_L

ClientSampleId :

SV2

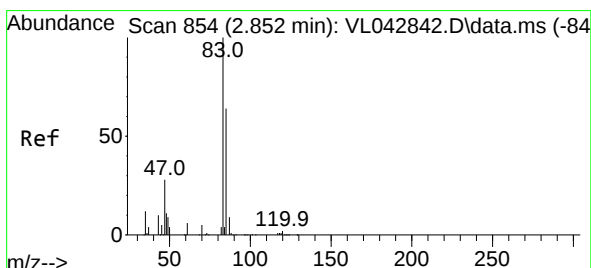
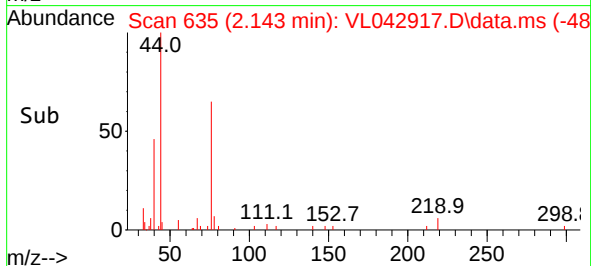
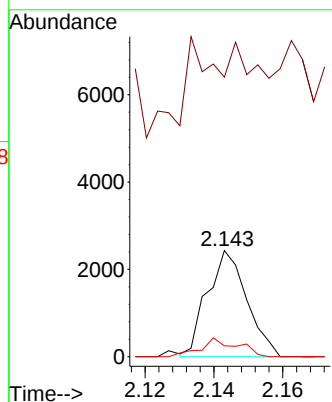
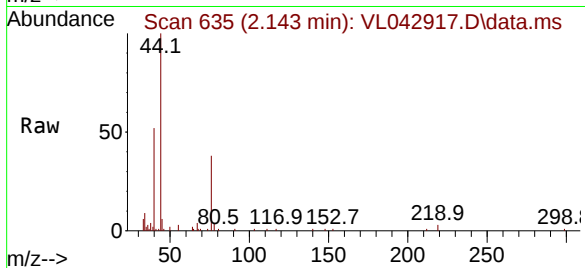
Tgt Ion: 76 Resp: 1944

Ion Ratio Lower Upper

76 100

44 804.5 15.9 23.9#

78 16.4 9.5 14.3#



#29

Chloroform

Concen: 0.577 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL042917.D

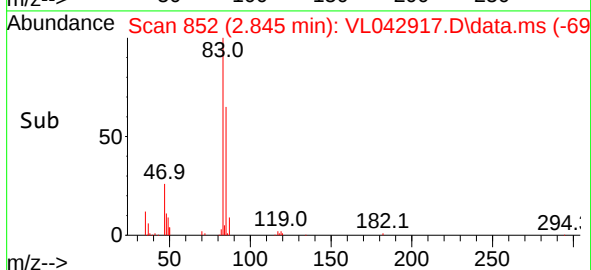
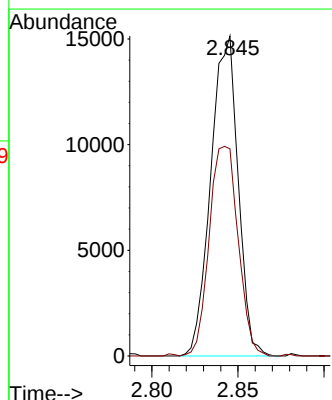
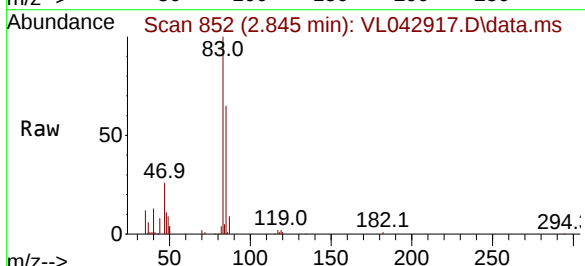
Acq: 09 Sep 2025 07:48

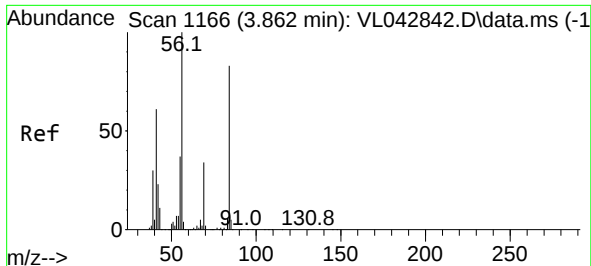
Tgt Ion: 83 Resp: 16720

Ion Ratio Lower Upper

83 100

85 64.8 51.1 76.7

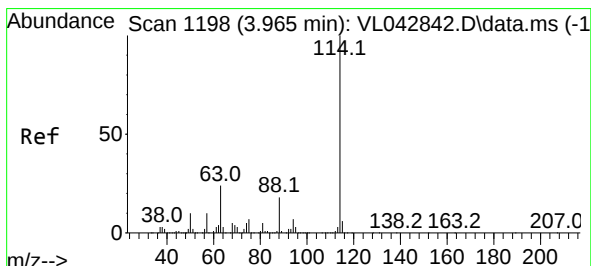
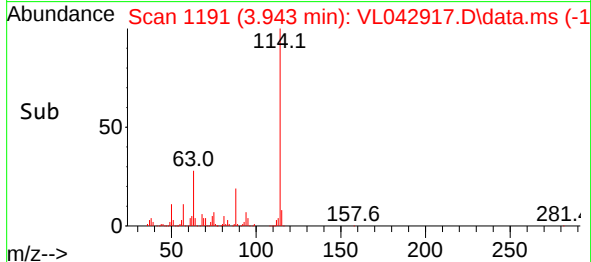
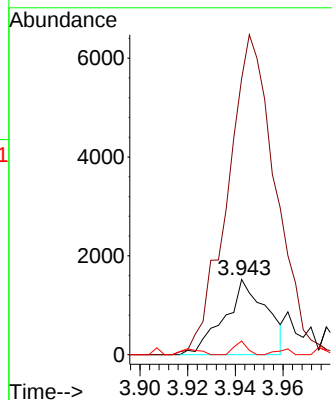
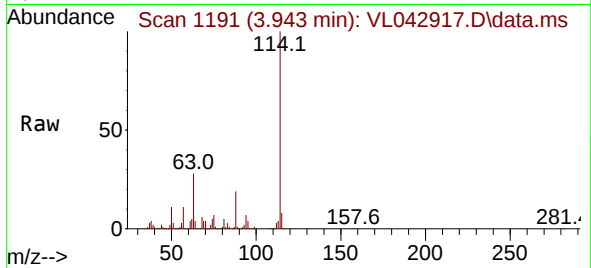




#30
Cyclohexane
Concen: 0.104 ppbv
RT: 3.943 min Scan# 1166
Delta R.T. 0.100 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

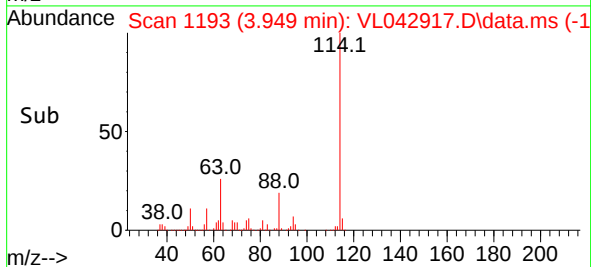
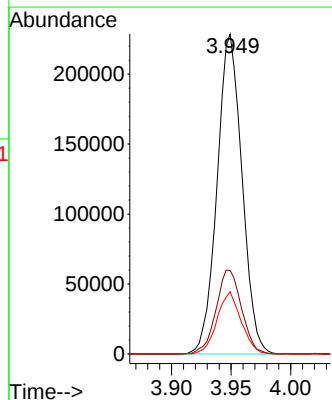
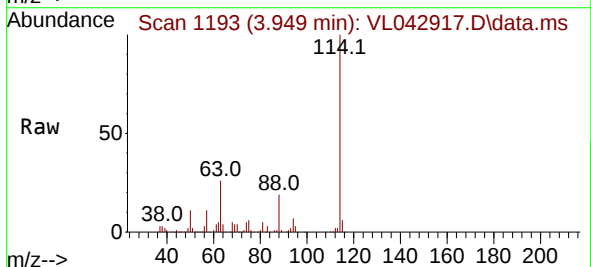
Instrument :
MSVOA_L
ClientSampleId :
SV2

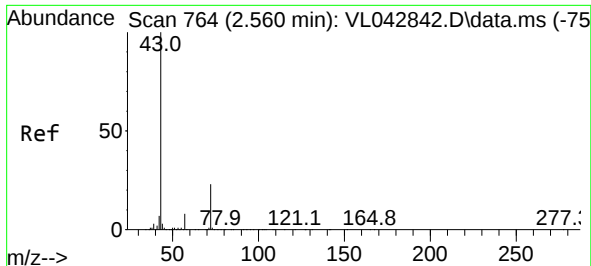
Tgt Ion: 84 Resp: 1853
Ion Ratio Lower Upper
84 100
56 506.5 98.8 148.2#
41 8.0 61.3 91.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 114 Resp: 332138
Ion Ratio Lower Upper
114 100
63 26.9 19.7 29.5
88 18.7 14.4 21.6

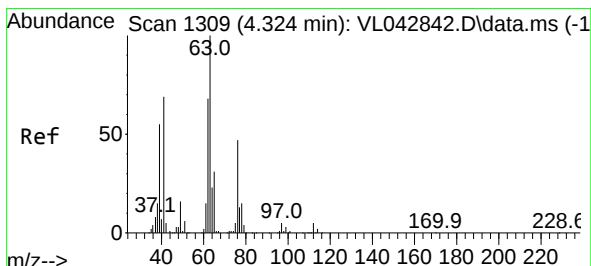
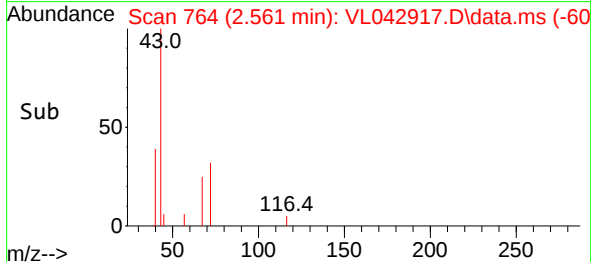
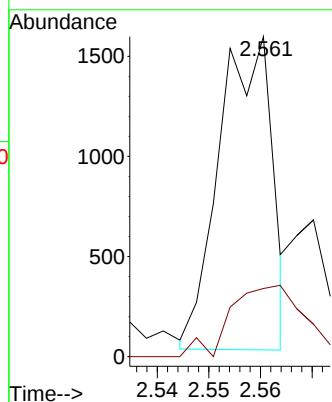
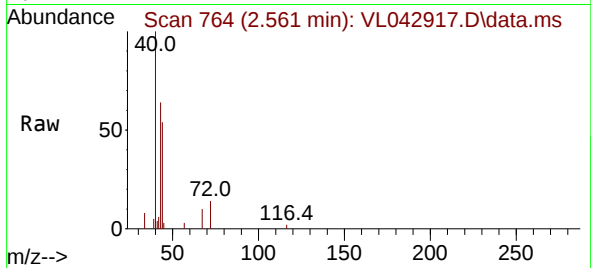




#34
2-Butanone
Concen: 0.050 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

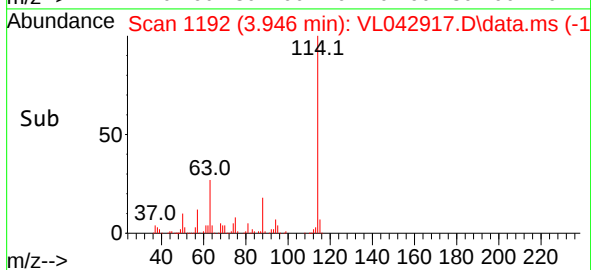
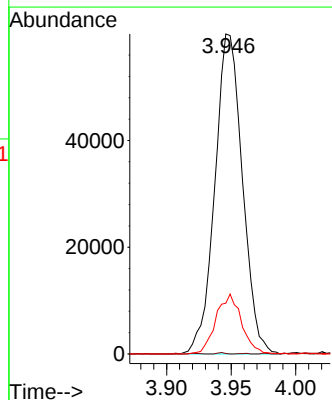
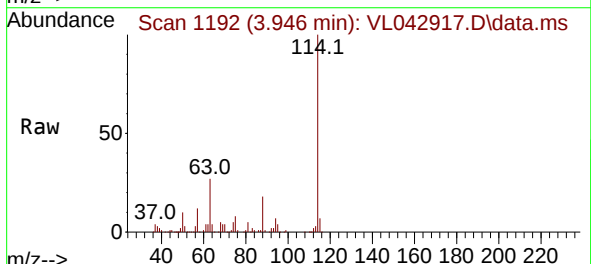
Instrument :
MSVOA_L
ClientSampleId :
SV2

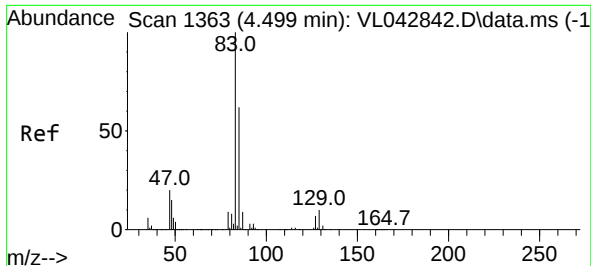
Tgt Ion: 43 Resp: 1121
Ion Ratio Lower Upper
43 100
72 31.5 18.6 28.0#



#39
1,2-Dichloropropane
Concen: 7.670 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.353 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 63 Resp: 89089
Ion Ratio Lower Upper
63 100
41 0.1 55.0 82.4#
62 15.9 54.4 81.6#

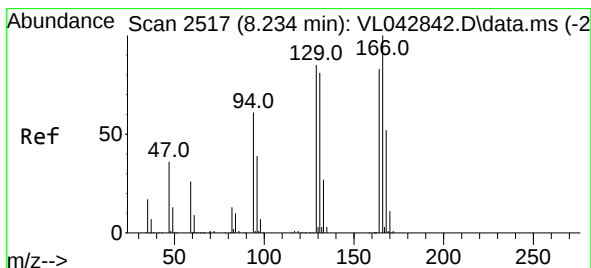
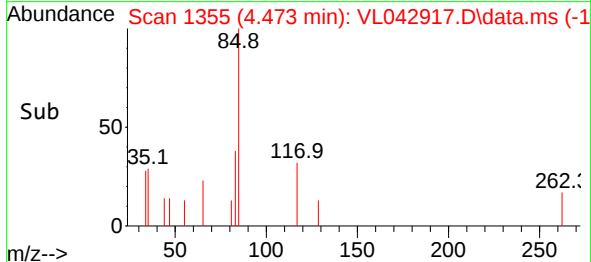
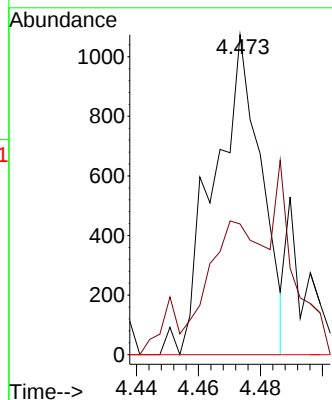
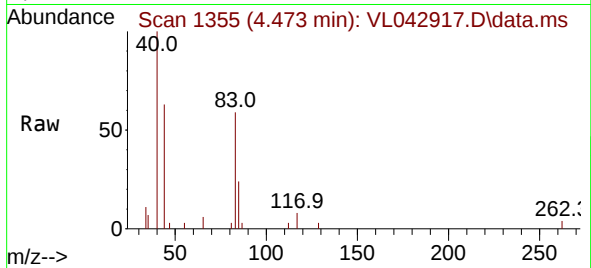




#42
Bromodichloromethane
Concen: 0.045 ppbv
RT: 4.473 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

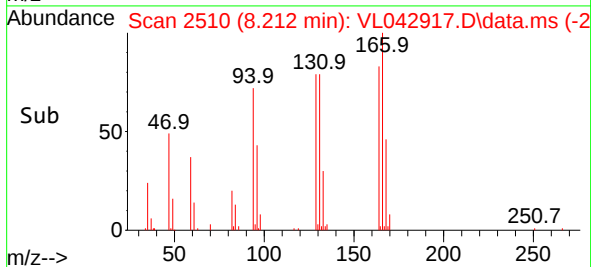
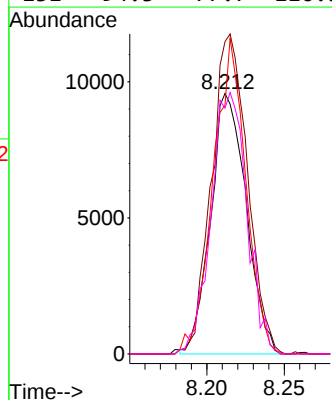
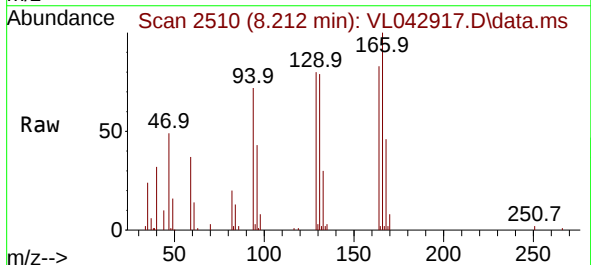
Instrument :
MSVOA_L
ClientSampleId :
SV2

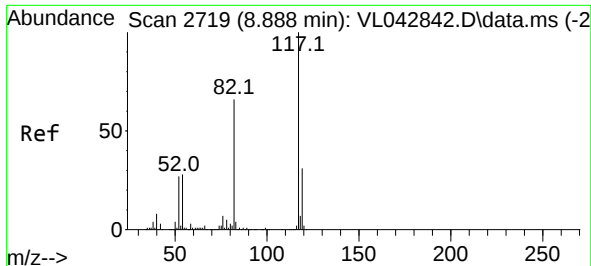
Tgt Ion: 83 Resp: 1123
Ion Ratio Lower Upper
83 100
85 34.4 49.8 74.8#
127 0.0 5.8 8.6#



#52
Tetrachloroethene
Concen: 1.329 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 164 Resp: 15290
Ion Ratio Lower Upper
164 100
166 118.9 96.5 144.7
129 94.8 81.8 122.6
131 94.3 77.7 116.5

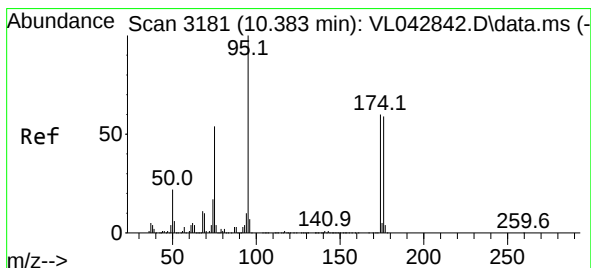
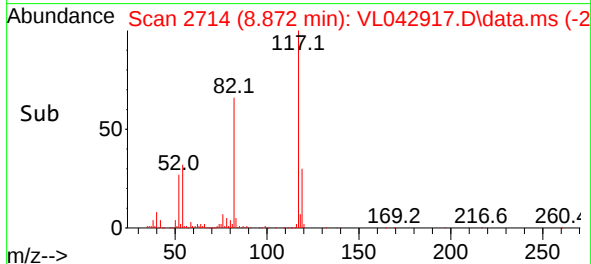
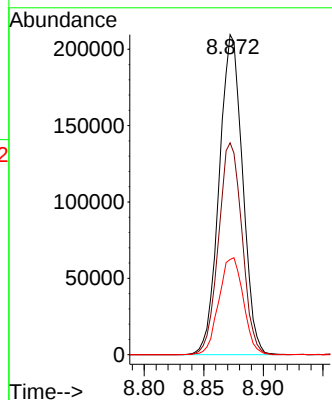
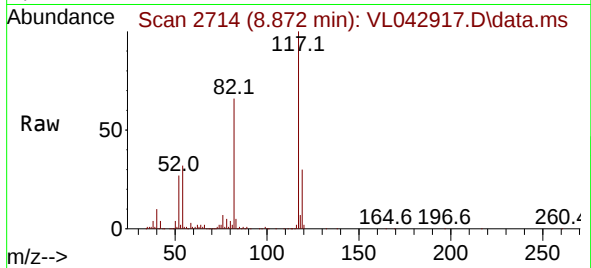




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:117 Resp: 285976
Ion Ratio Lower Upper
117 100
82 66.5 54.6 81.8
119 31.7 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.574 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL042917.D
Acq: 09 Sep 2025 07:48

Tgt Ion: 95 Resp: 226787
Ion Ratio Lower Upper
95 100
174 55.9 48.4 72.6
175 4.0 3.8 5.8

