

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042737.D
 Acq On : 22 Jul 2025 18:51
 Operator : SY/MD
 Sample : Q2617-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Jul 23 03:04:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	106221	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	326460	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.882	117	282865	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	230148	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

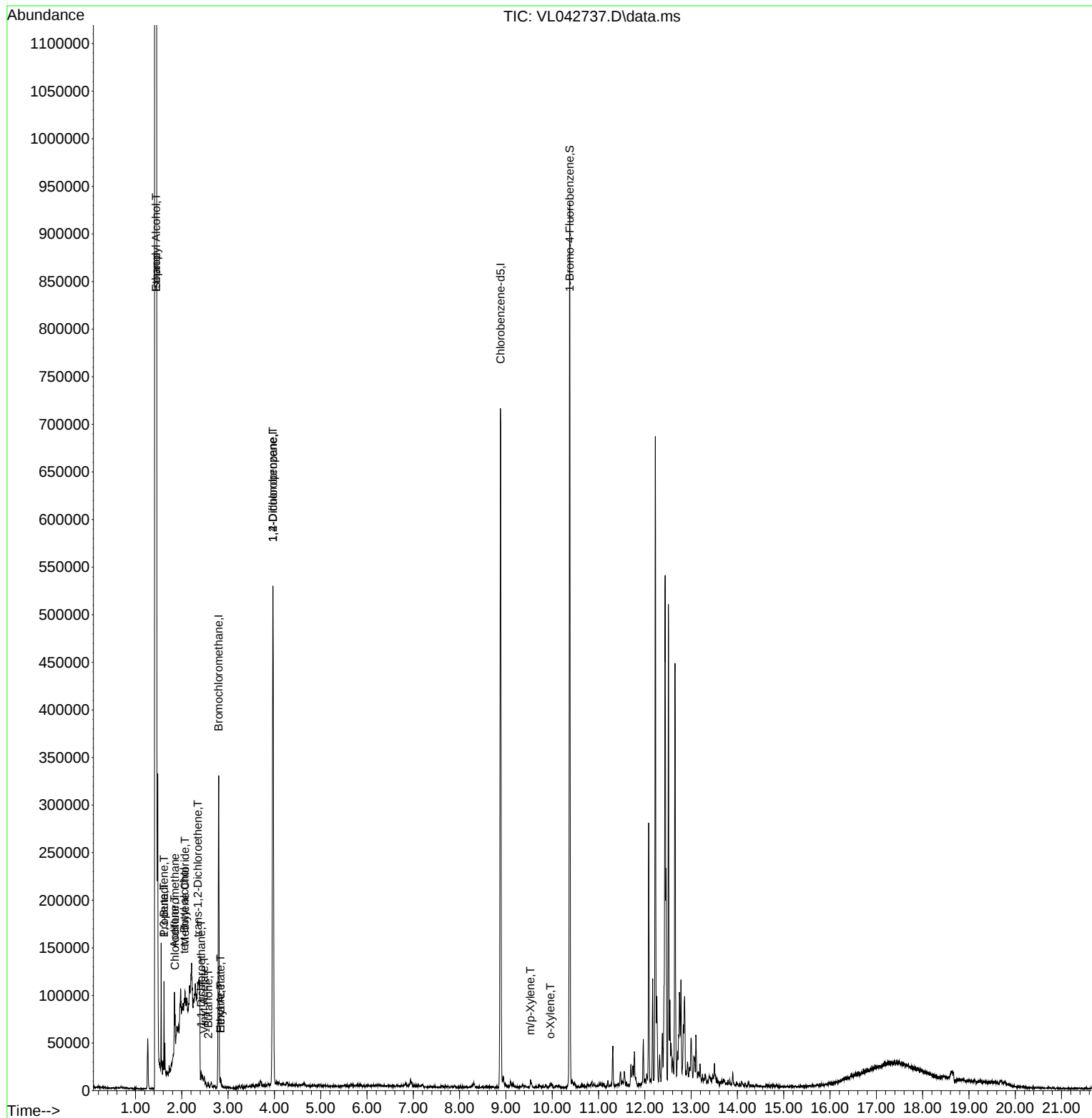
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.855	51	672	0.036	ppbv	91
9) Propene	1.615	41	9150	1.375	ppbv	93
13) Ethanol	1.447	45	180840	161.560	ppbv #	1
15) Acetone	1.842	43	33384	1.877	ppbv	93
16) 1,3-Butadiene	1.615	39	5116	0.672	ppbv #	21
17) tert-Butyl alcohol	2.052	59	836	0.050	ppbv #	56
19) Isopropyl Alcohol	1.447	45	180840	19.185	ppbv #	38
20) Methylene Chloride	2.068	84	2165	0.387	ppbv #	83
22) trans-1,2-Dichloroethene	2.350	96	688	0.106	ppbv #	68
23) Vinyl Acetate	2.483	43	2106	0.104	ppbv #	24
24) 1,1-Dichloroethane	2.418	63	2513	0.193	ppbv #	94
25) Ethyl Acetate	2.835	43	1253	0.038	ppbv #	63
26) Hexane	2.835	57	1711	0.119	ppbv #	67
34) 2-Butanone	2.570	43	3139	0.140	ppbv	98
39) 1,2-Dichloropropane	3.968	63	85337	7.557	ppbv #	20
59) m/p-Xylene	9.529	91	2006	0.053	ppbv #	1
60) o-Xylene	9.963	91	1261	0.033	ppbv	75

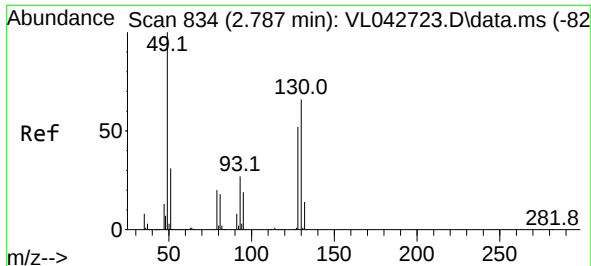
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042737.D
Acq On : 22 Jul 2025 18:51
Operator : SY/MD
Sample : Q2617-02DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Quant Time: Jul 23 03:04:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

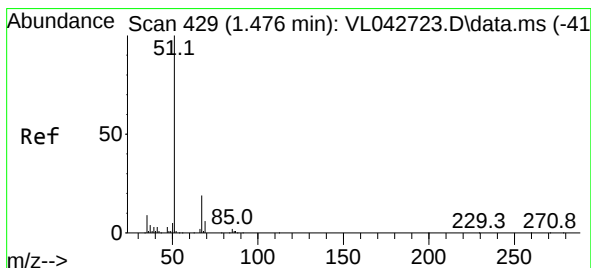
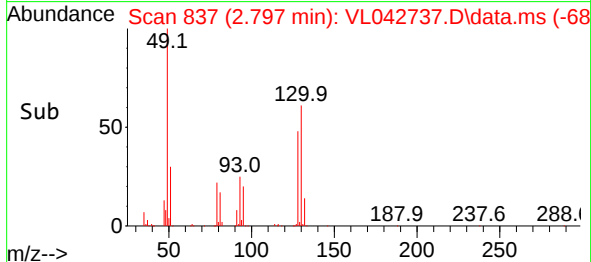
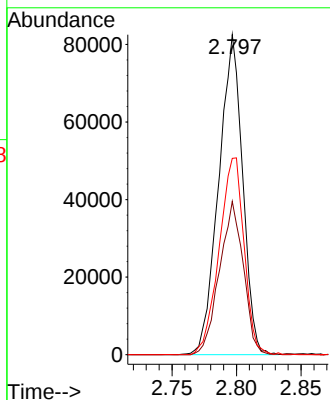
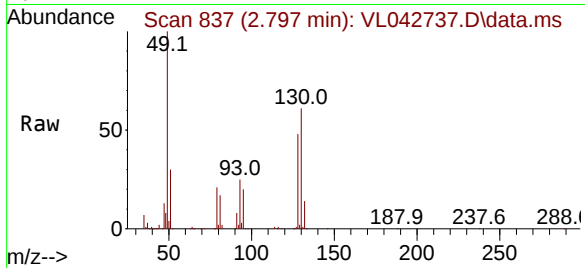




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

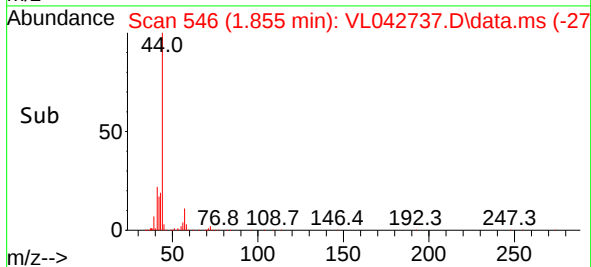
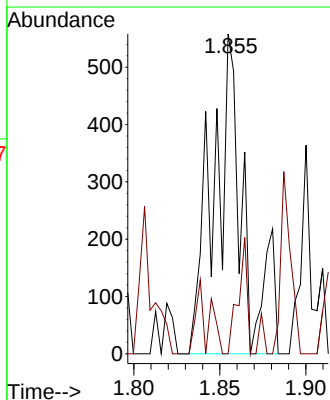
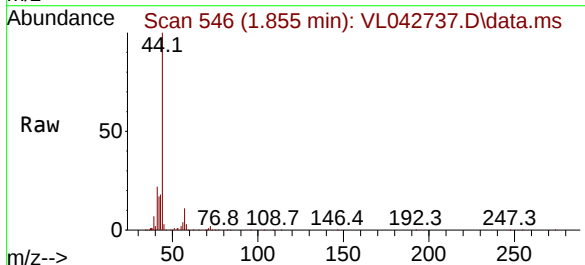
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

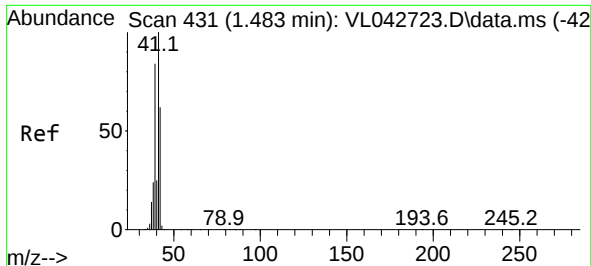
Tgt Ion: 49 Resp: 106221
Ion Ratio Lower Upper
49 100
128 47.8 24.5 73.5
130 64.3 31.7 95.1



#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.855 min Scan# 546
Delta R.T. 0.379 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

Tgt Ion: 51 Resp: 672
Ion Ratio Lower Upper
51 100
67 24.0 16.0 24.0





#9

Propene

Concen: 1.375 ppbv

RT: 1.615 min Scan# 41

Delta R.T. 0.133 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

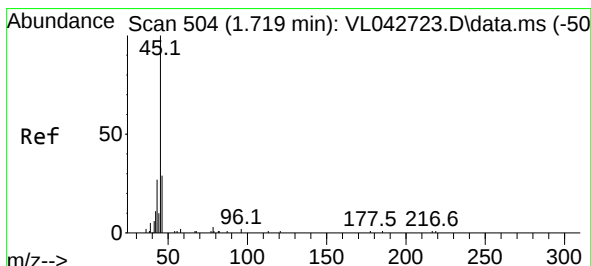
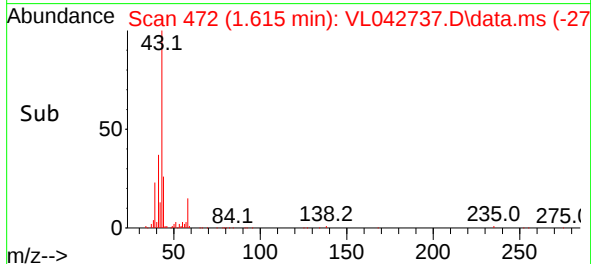
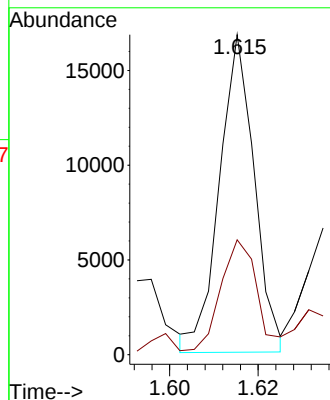
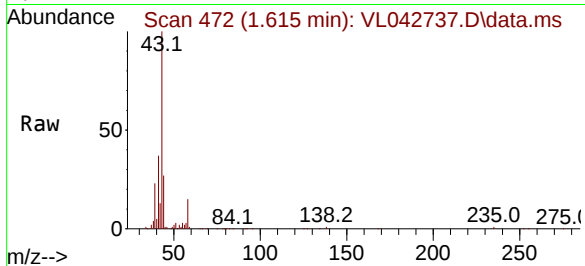
SV2DL

Tgt Ion: 41 Resp: 9150

Ion Ratio Lower Upper

41 100

42 59.6 52.0 78.0



#13

Ethanol

Concen: 161.560 ppbv

RT: 1.447 min Scan# 420

Delta R.T. -0.272 min

Lab File: VL042737.D

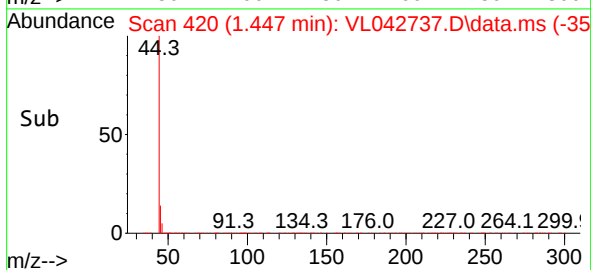
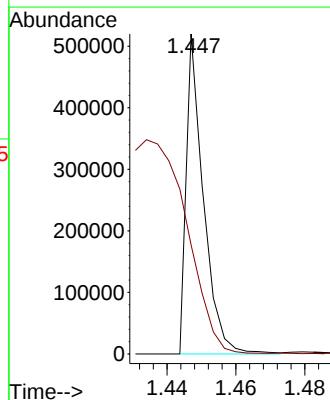
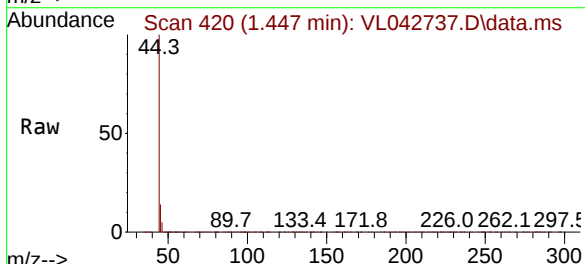
Acq: 22 Jul 2025 18:51

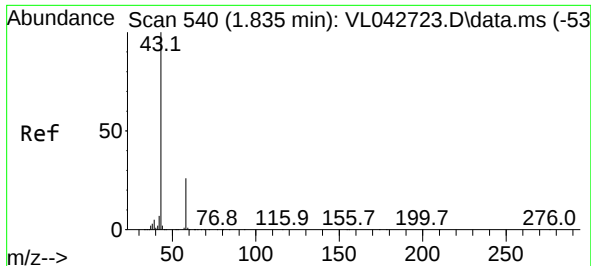
Tgt Ion: 45 Resp: 180840

Ion Ratio Lower Upper

45 100

46 336.8 16.3 65.1#

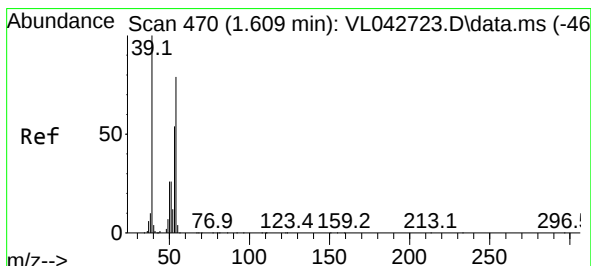
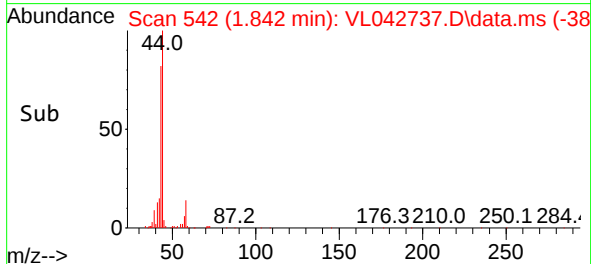
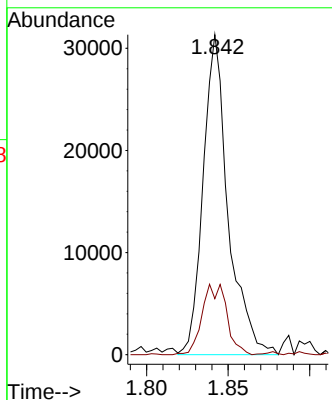
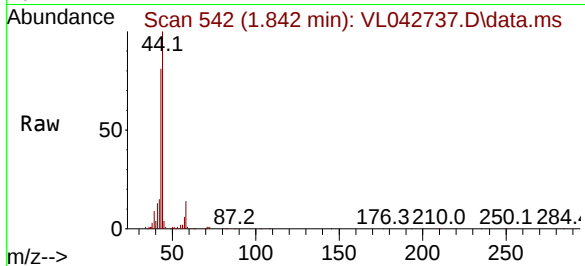




#15
Acetone
Concen: 1.877 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

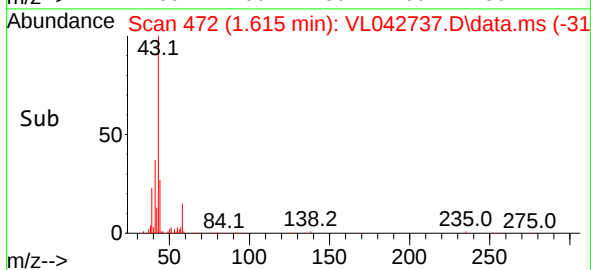
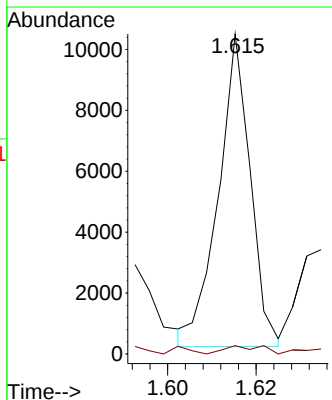
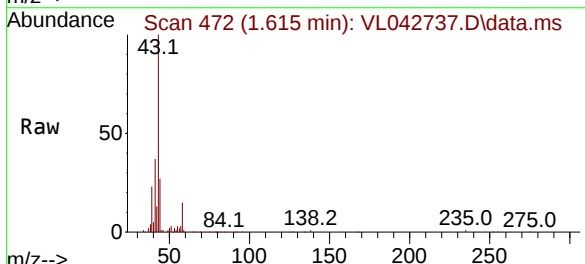
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

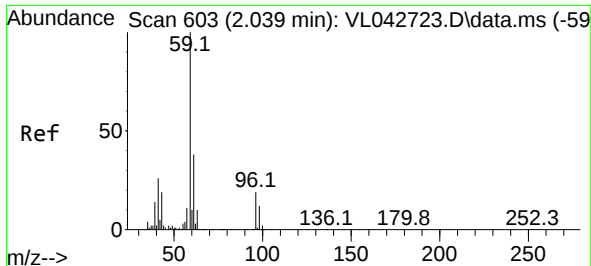
Tgt Ion: 43 Resp: 33384
Ion Ratio Lower Upper
43 100
58 22.2 20.5 30.7



#16
1,3-Butadiene
Concen: 0.672 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.006 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

Tgt Ion: 39 Resp: 5116
Ion Ratio Lower Upper
39 100
54 4.7 54.6 82.0#





#17

tert-Butyl alcohol

Concen: 0.050 ppbv

RT: 2.052 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

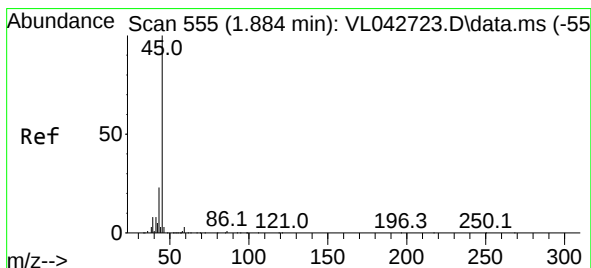
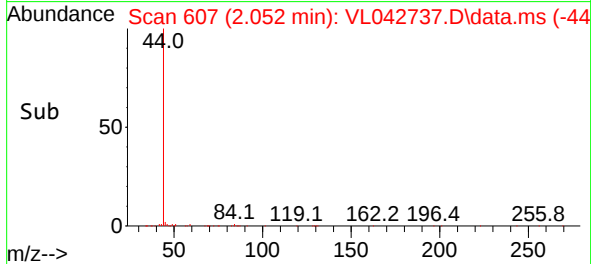
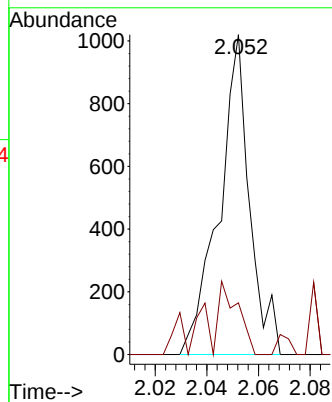
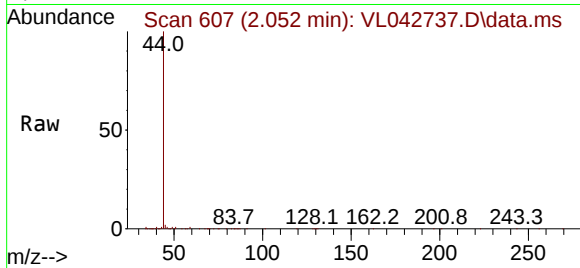
SV2DL

Tgt Ion: 59 Resp: 836

Ion Ratio Lower Upper

59 100

57 28.3 9.1 13.7#



#19

Isopropyl Alcohol

Concen: 19.185 ppbv

RT: 1.447 min Scan# 420

Delta R.T. -0.437 min

Lab File: VL042737.D

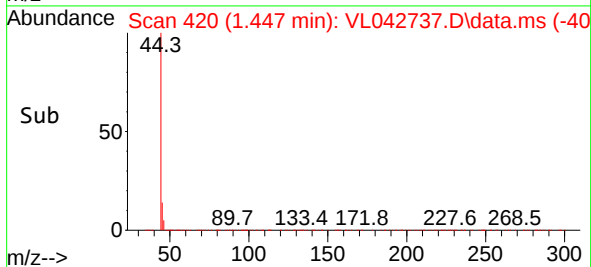
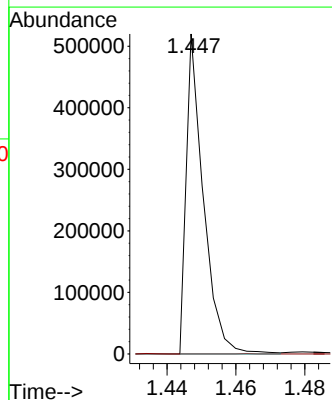
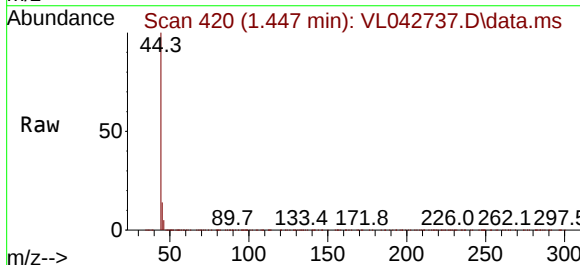
Acq: 22 Jul 2025 18:51

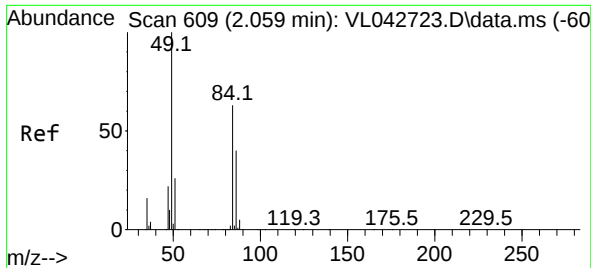
Tgt Ion: 45 Resp: 180840

Ion Ratio Lower Upper

45 100

58 0.6 30.6 46.0#

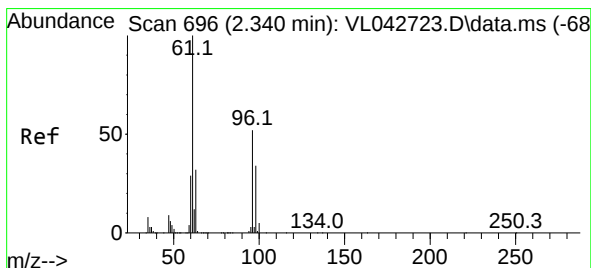
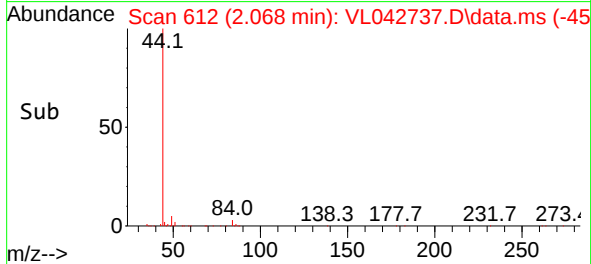
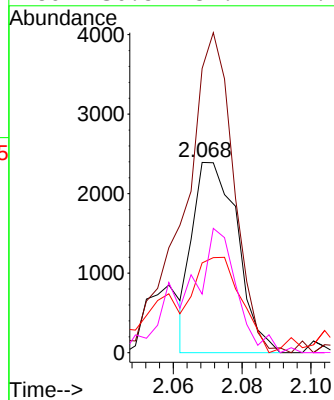
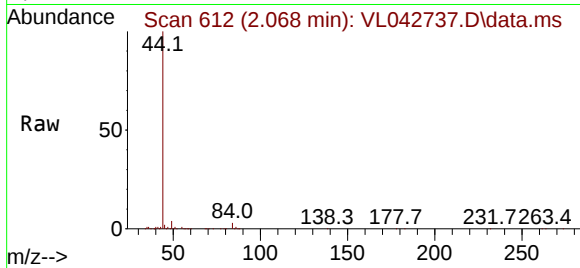




#20
Methylene Chloride
Concen: 0.387 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

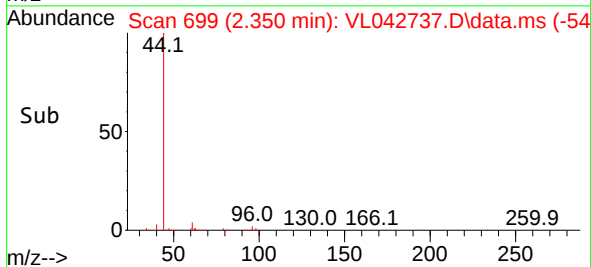
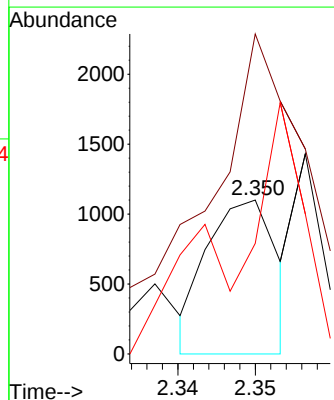
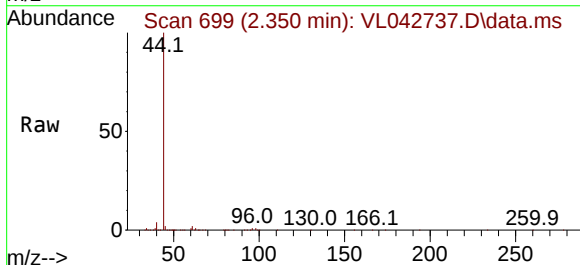
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

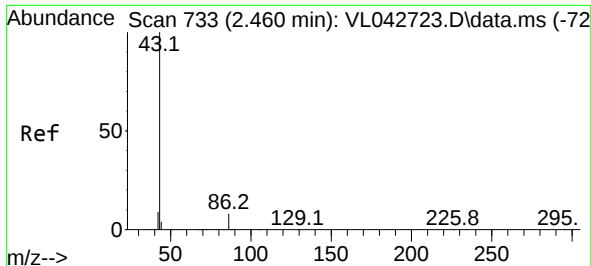
Tgt Ion: 84 Resp: 2165
Ion Ratio Lower Upper
84 100
49 146.9 128.2 192.4
51 44.9 34.5 51.7
86 30.8 51.4 77.2#



#22
trans-1,2-Dichloroethene
Concen: 0.106 ppbv
RT: 2.350 min Scan# 699
Delta R.T. 0.010 min
Lab File: VL042737.D
Acq: 22 Jul 2025 18:51

Tgt Ion: 96 Resp: 688
Ion Ratio Lower Upper
96 100
61 164.8 154.6 232.0
98 9.9 53.1 79.7#

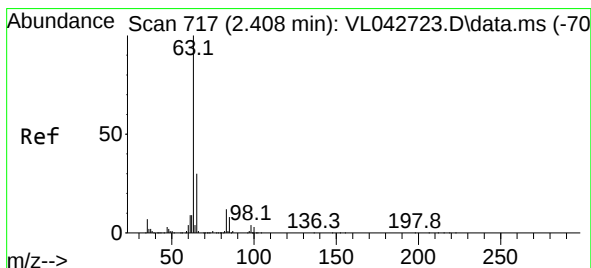
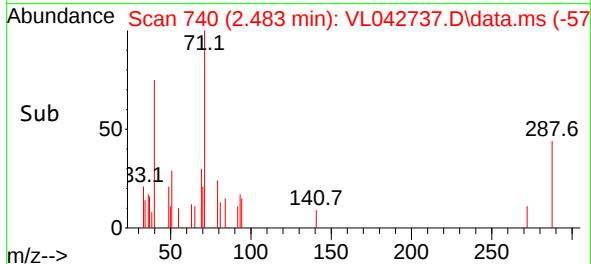
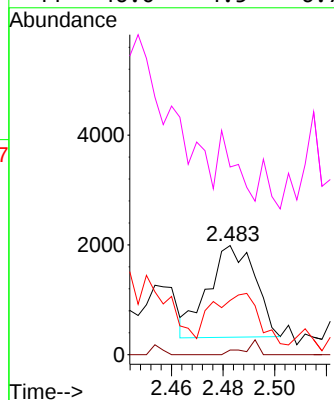
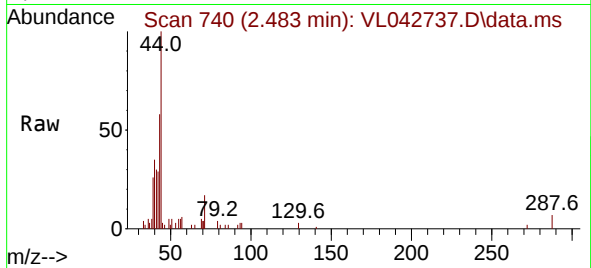




#23
 Vinyl Acetate
 Concen: 0.104 ppbv
 RT: 2.483 min Scan# 741
 Delta R.T. 0.023 min
 Lab File: VL042737.D
 Acq: 22 Jul 2025 18:51

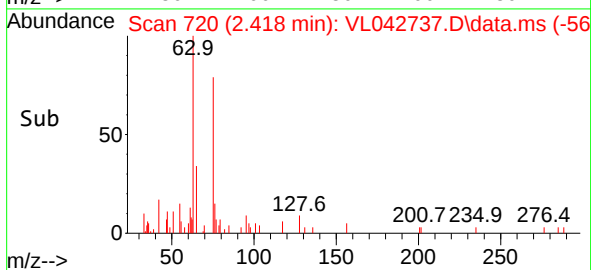
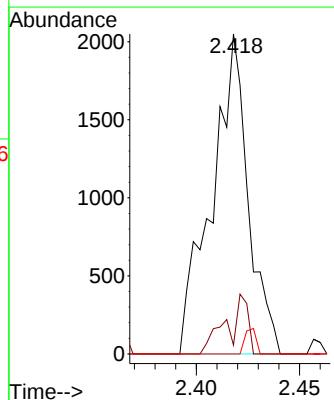
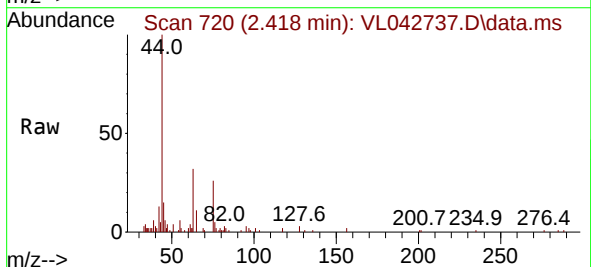
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

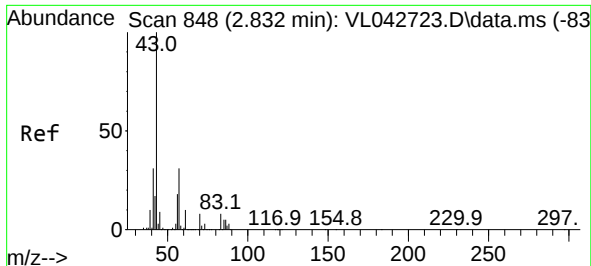
Tgt Ion:	43	Resp:	2106
Ion	Ratio	Lower	Upper
43	100		
86	5.1	5.7	8.5#
42	47.5	7.9	11.9#
44	46.0	4.5	6.7#



#24
 1,1-Dichloroethane
 Concen: 0.193 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.010 min
 Lab File: VL042737.D
 Acq: 22 Jul 2025 18:51

Tgt Ion:	63	Resp:	2513
Ion	Ratio	Lower	Upper
63	100		
98	2.7	2.0	5.8
100	0.0	1.6	4.7#





#25

Ethyl Acetate

Concen: 0.038 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 43 Resp: 1253

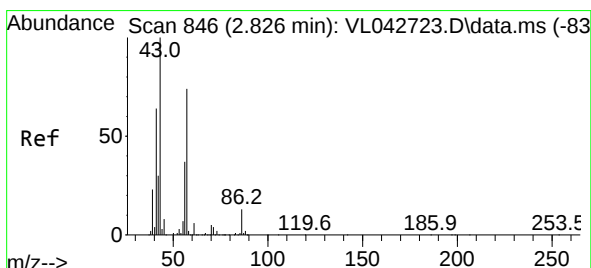
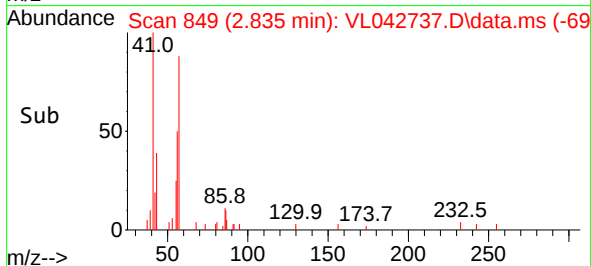
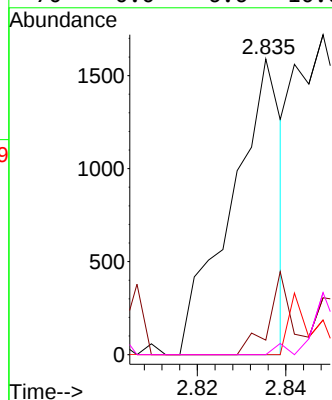
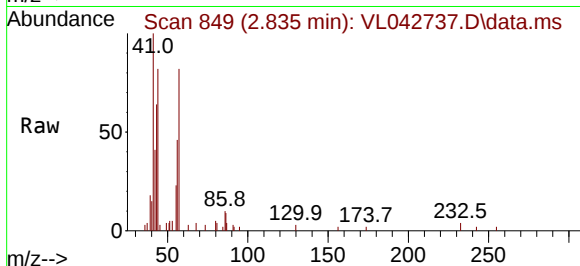
Ion Ratio Lower Upper

43 100

45 36.1 7.8 11.6#

61 13.2 7.0 10.6#

70 0.0 6.6 10.0#



#26

Hexane

Concen: 0.119 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.010 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Tgt Ion: 57 Resp: 1711

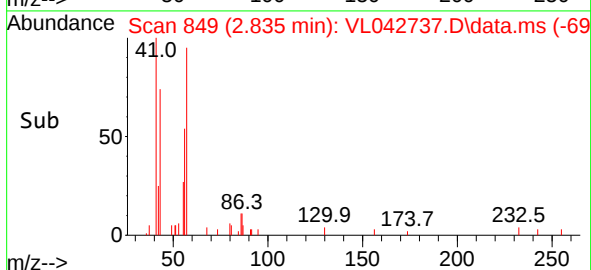
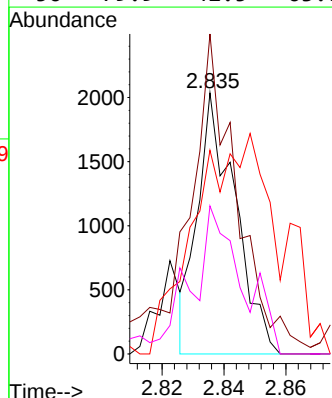
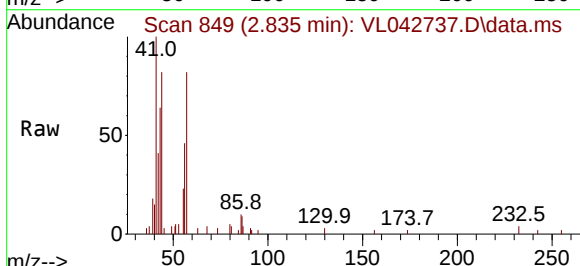
Ion Ratio Lower Upper

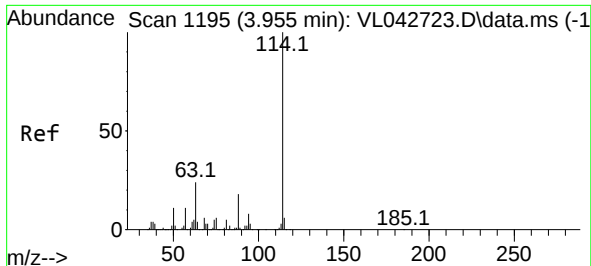
57 100

41 165.0 77.3 115.9#

43 201.1 182.3 273.5

56 79.9 42.5 63.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

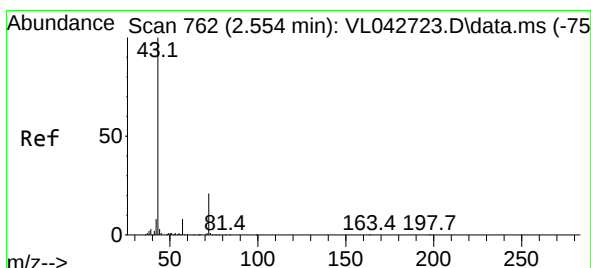
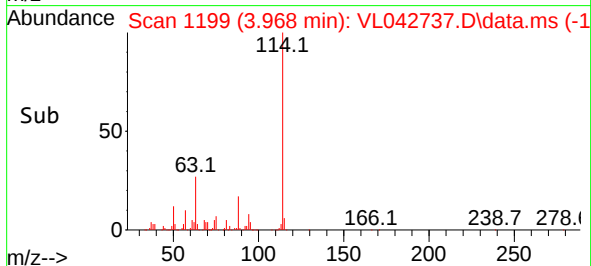
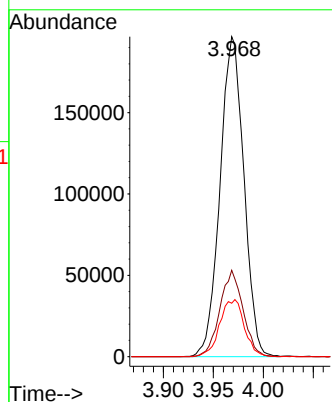
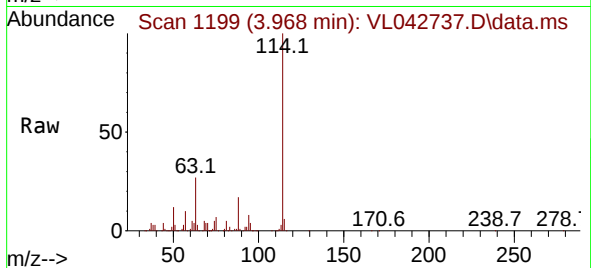
Tgt Ion:114 Resp: 326460

Ion Ratio Lower Upper

114 100

63 26.3 20.4 30.6

88 18.5 14.5 21.7



#34

2-Butanone

Concen: 0.140 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042737.D

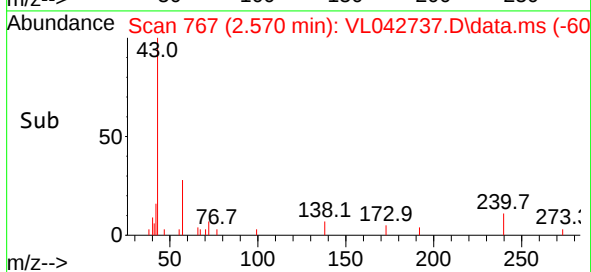
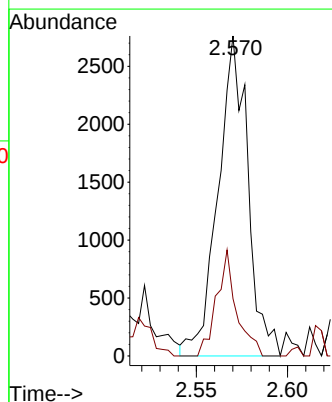
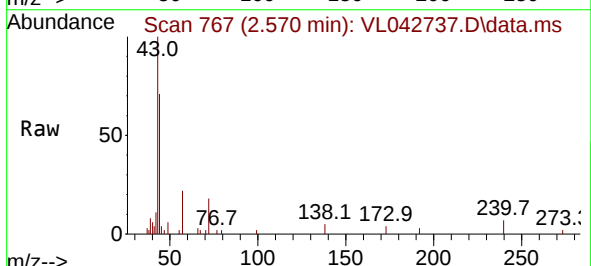
Acq: 22 Jul 2025 18:51

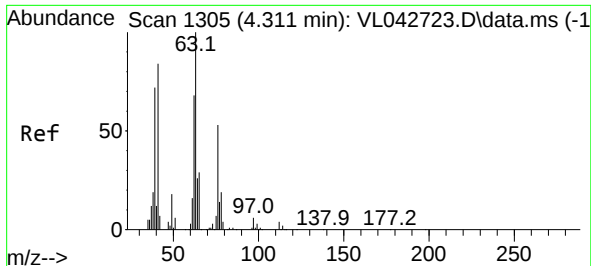
Tgt Ion: 43 Resp: 3139

Ion Ratio Lower Upper

43 100

72 22.1 17.0 25.6





#39

1,2-Dichloropropane

Concen: 7.557 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

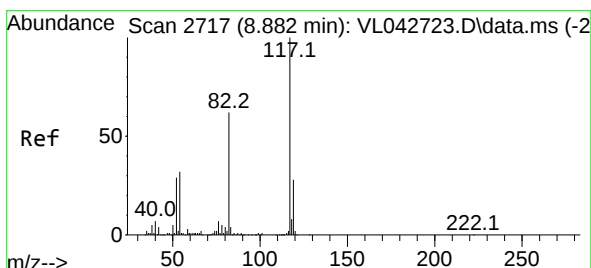
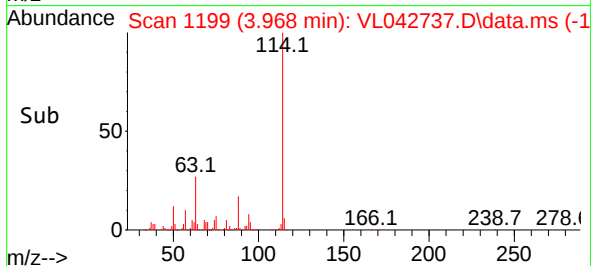
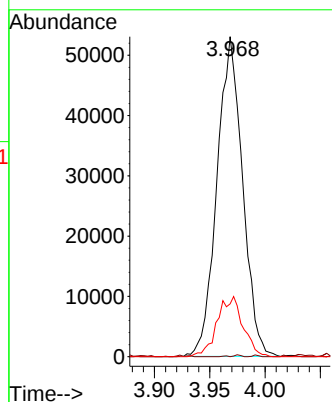
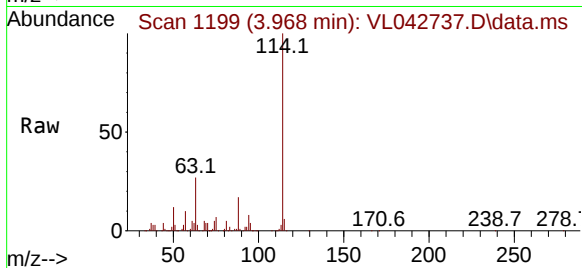
Tgt Ion: 63 Resp: 85337

Ion Ratio Lower Upper

63 100

41 0.0 67.7 101.5#

62 16.5 54.1 81.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

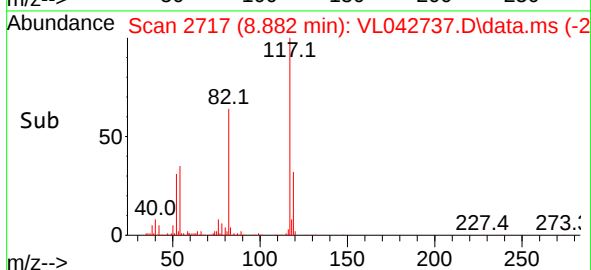
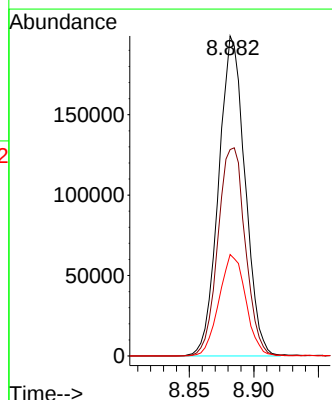
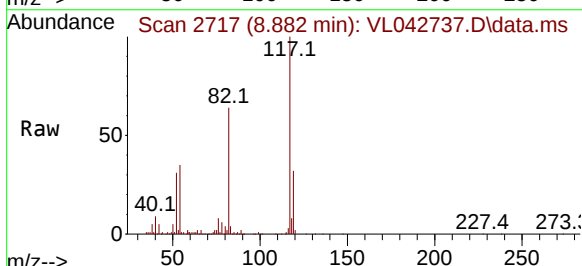
Tgt Ion: 117 Resp: 282865

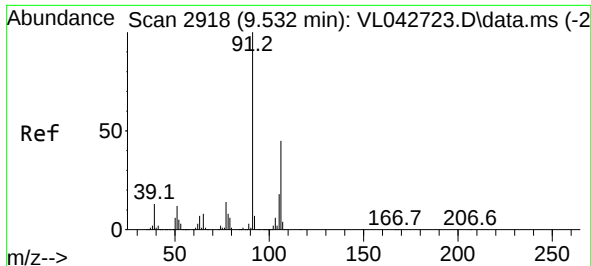
Ion Ratio Lower Upper

117 100

82 67.6 54.6 81.8

119 32.2 25.3 37.9





#59

m/p-Xylene

Concen: 0.053 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.003 min

Lab File: VL042737.D

Acq: 22 Jul 2025 18:51

Instrument :

MSVOA_L

ClientSampleId :

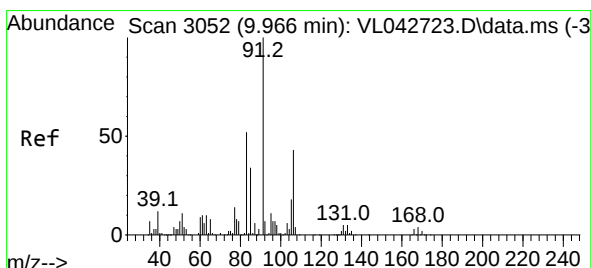
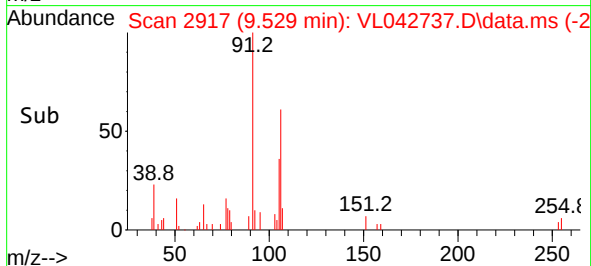
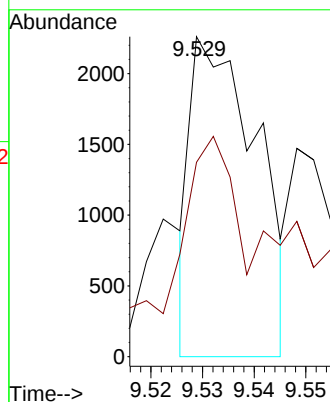
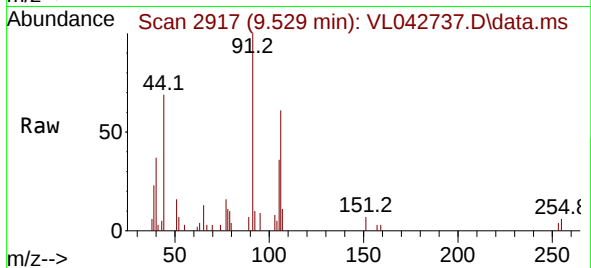
SV2DL

Tgt Ion: 91 Resp: 2006

Ion Ratio Lower Upper

91 100

106 114.6 37.3 55.9#



#60

o-Xylene

Concen: 0.033 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.003 min

Lab File: VL042737.D

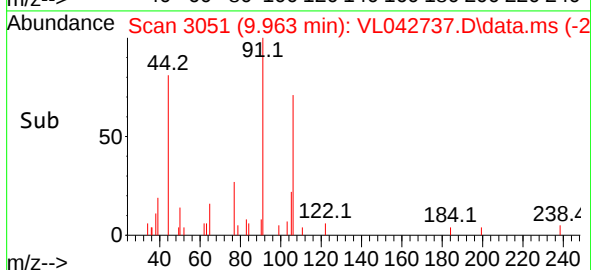
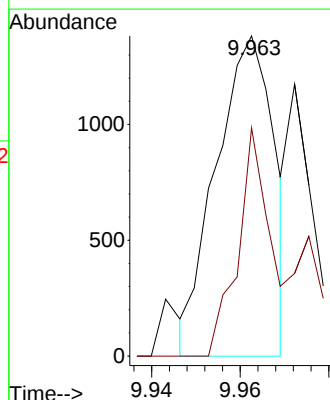
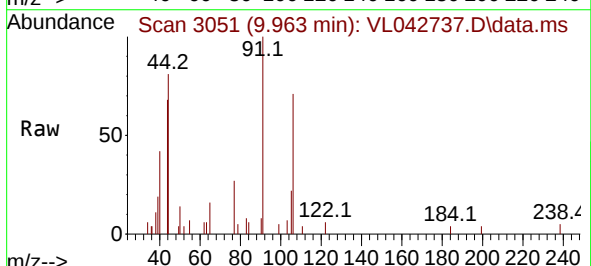
Acq: 22 Jul 2025 18:51

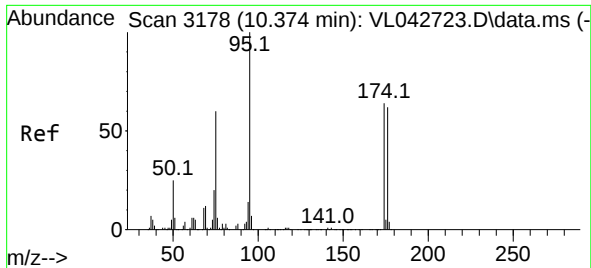
Tgt Ion: 91 Resp: 1261

Ion Ratio Lower Upper

91 100

106 58.9 21.4 64.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL042737.D
 Acq: 22 Jul 2025 18:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion: 95 Resp: 230148

Ion	Ratio	Lower	Upper
95	100		
174	62.9	51.4	77.2
175	4.6	4.2	6.4

