

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042916.D
 Acq On : 08 Sep 2025 22:55
 Operator : SY/MD
 Sample : Q3052-02 120X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Sep 09 01:01:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

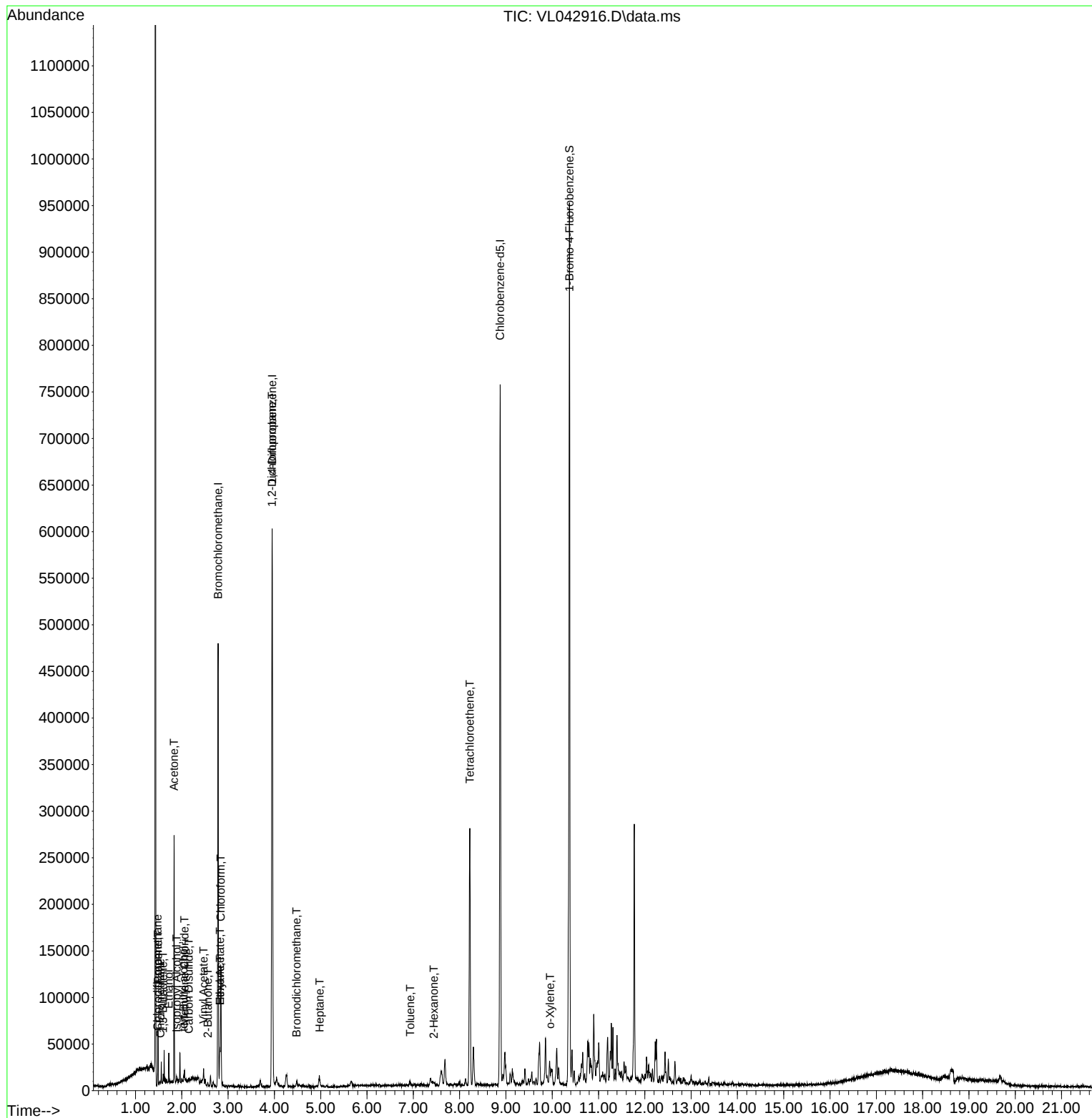
Internal Standards						
1) Bromochloromethane	2.784	49	134158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	332366	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	295290	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	246216	11.118	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.200%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.476	51	3328	0.153	ppbv	99
4) Chloromethane	1.534	50	304	0.038	ppbv #	85
9) Propene	1.486	41	4916	0.524	ppbv	87
10) Heptane	4.975	43	2125	0.085	ppbv #	61
13) Ethanol	1.719	45	11299	13.166	ppbv	96
15) Acetone	1.832	43	115934	6.533	ppbv	98
16) 1,3-Butadiene	1.596	39	976	0.121	ppbv #	10
17) tert-Butyl alcohol	2.039	59	1652	0.078	ppbv #	94
19) Isopropyl Alcohol	1.887	45	2487	0.235	ppbv #	1
20) Methylene Chloride	2.059	84	1840	0.248	ppbv	91
23) Vinyl Acetate	2.470	43	2249	0.092	ppbv #	41
25) Ethyl Acetate	2.823	43	5550	0.129	ppbv #	76
26) Hexane	2.823	57	6775	0.342	ppbv #	35
27) Carbon Disulfide	2.149	76	911	0.047	ppbv #	1
29) Chloroform	2.842	83	50661	1.790	ppbv	92
34) 2-Butanone	2.561	43	2551	0.114	ppbv	98
39) 1,2-Dichloropropane	3.949	63	88084	7.578	ppbv #	26
42) Bromodichloromethane	4.480	83	2639	0.107	ppbv #	68
51) 2-Hexanone	7.445	43	944	0.040	ppbv #	27
52) Tetrachloroethene	8.221	164	46741	4.060	ppbv	98
53) Toluene	6.933	91	1183	0.031	ppbv #	1
60) o-Xylene	9.956	91	1825	0.044	ppbv	92

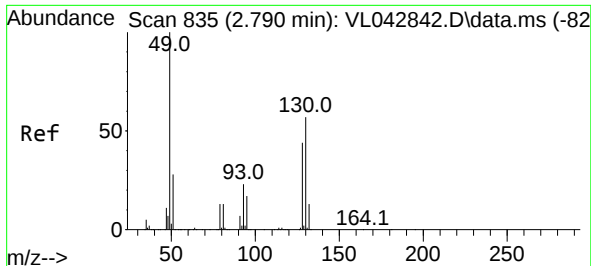
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
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Quant Time: Sep 09 01:01:16 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

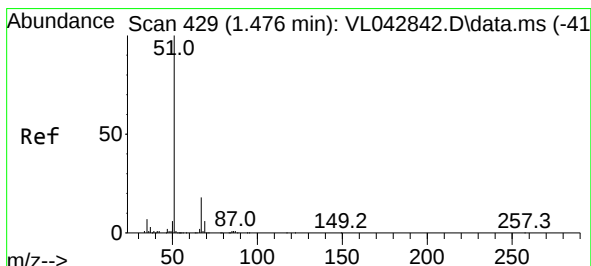
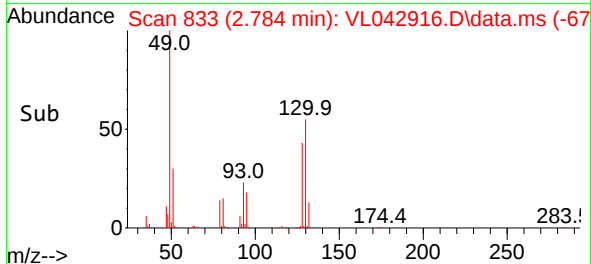
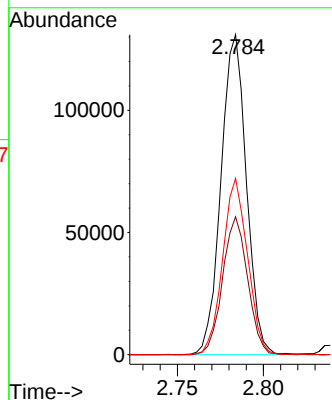
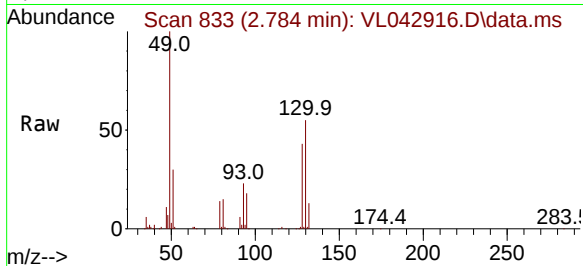




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

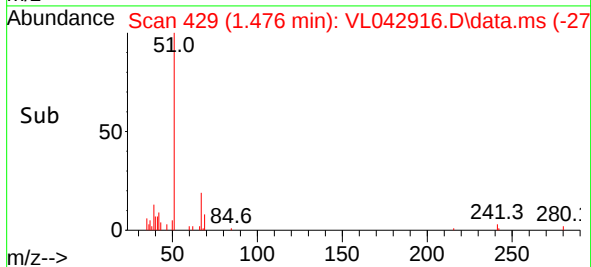
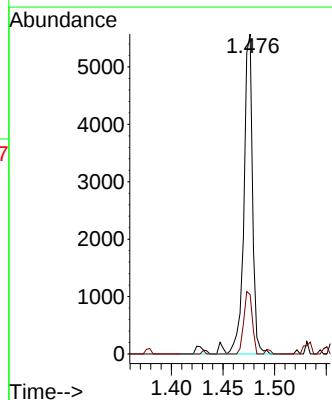
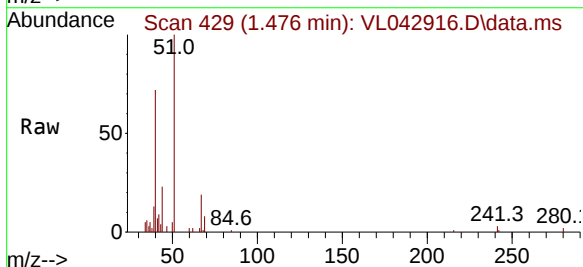
Instrument :
MSVOA_L
ClientSampleId :
SV2

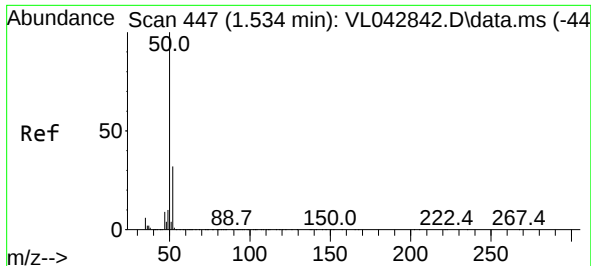
Tgt Ion: 49 Resp: 134158
Ion Ratio Lower Upper
49 100
128 42.6 23.7 71.1
130 54.2 30.6 91.6



#3
Chlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 51 Resp: 3328
Ion Ratio Lower Upper
51 100
67 19.2 14.9 22.3

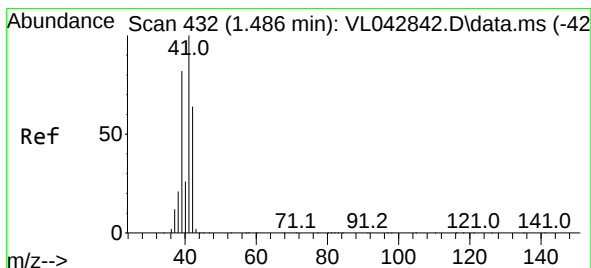
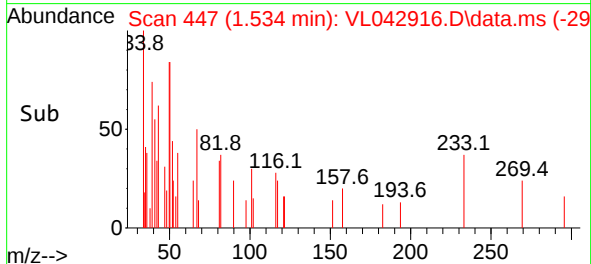
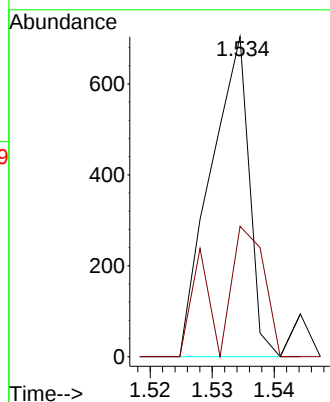
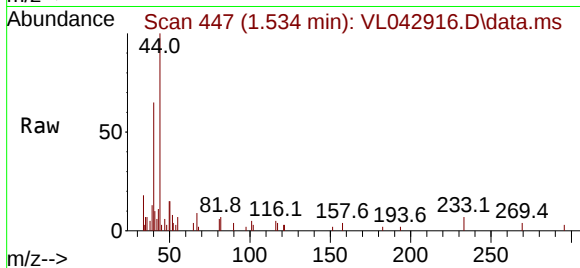




#4
Chloromethane
Concen: 0.038 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

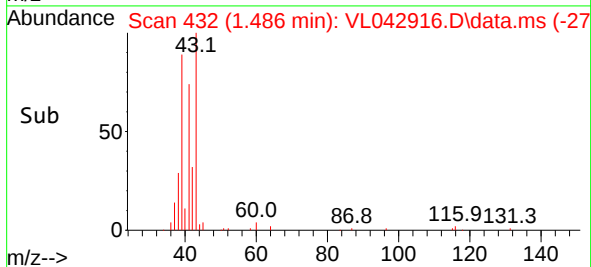
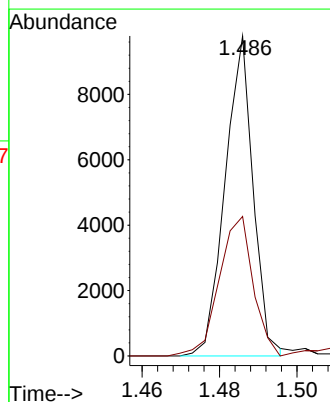
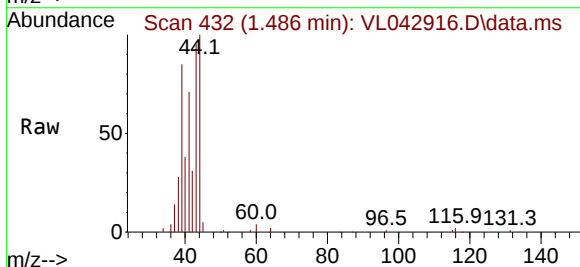
Instrument :
MSVOA_L
ClientSampleId :
SV2

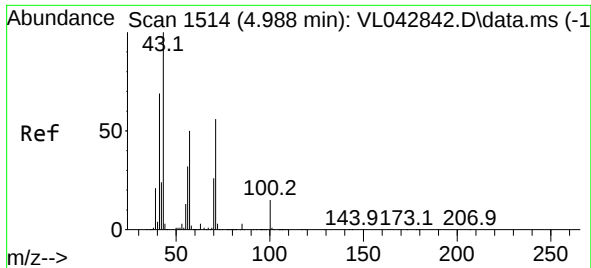
Tgt Ion: 50 Resp: 304
Ion Ratio Lower Upper
50 100
52 40.8 25.9 38.9#



#9
Propene
Concen: 0.524 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.010 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 41 Resp: 4916
Ion Ratio Lower Upper
41 100
42 55.6 53.0 79.4

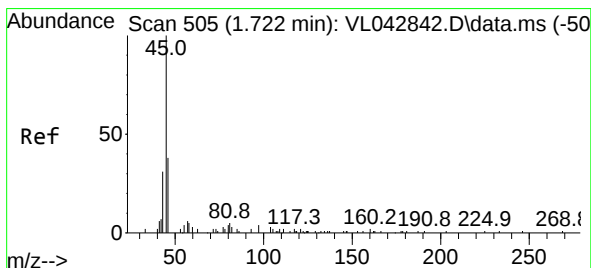
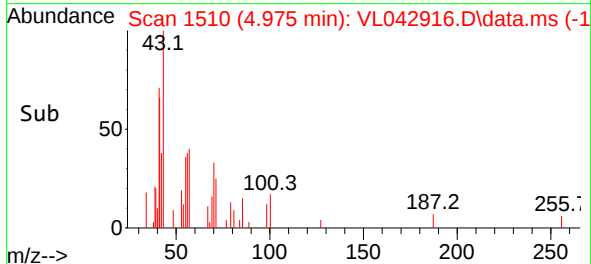
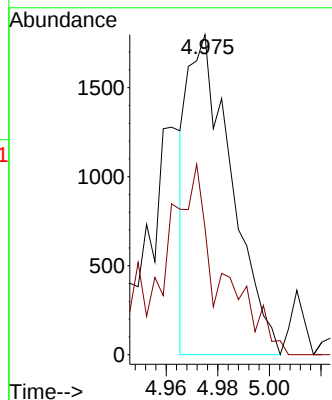
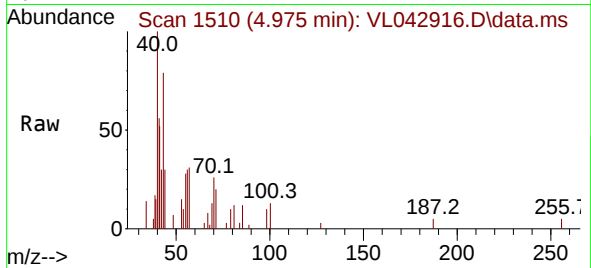




#10
Heptane
Concen: 0.085 ppbv
RT: 4.975 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

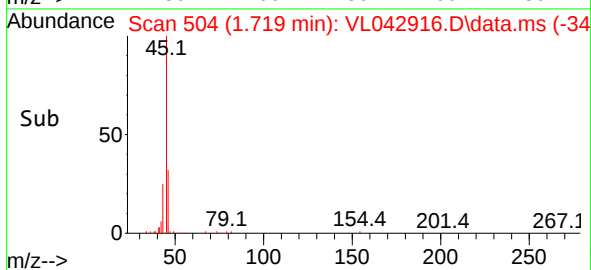
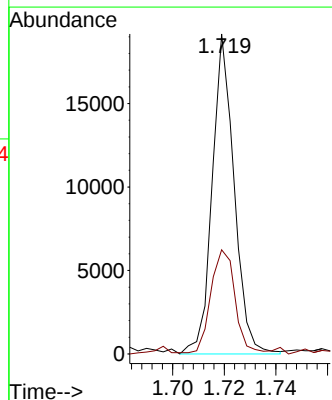
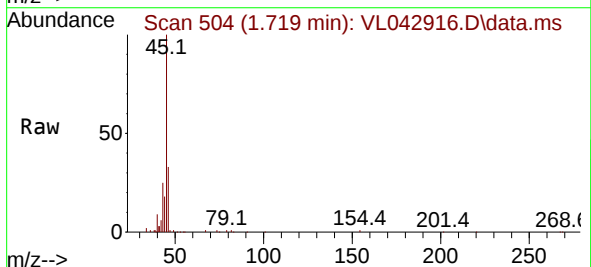
Instrument :
MSVOA_L
ClientSampleId :
SV2

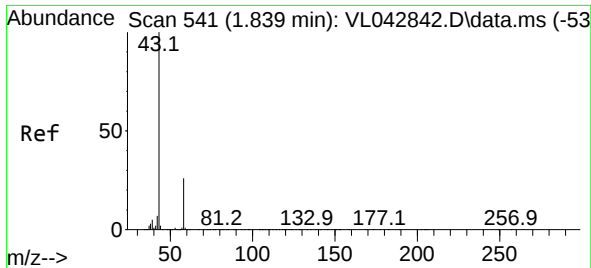
Tgt Ion: 43 Resp: 2125
Ion Ratio Lower Upper
43 100
57 78.9 41.4 62.0#



#13
Ethanol
Concen: 13.166 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 45 Resp: 11299
Ion Ratio Lower Upper
45 100
46 41.4 17.5 69.9





#15

Acetone

Concen: 6.533 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Instrument :

MSVOA_L

ClientSampleId :

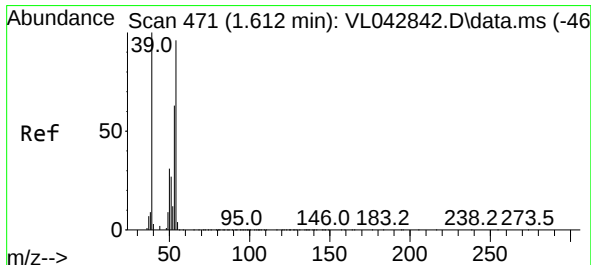
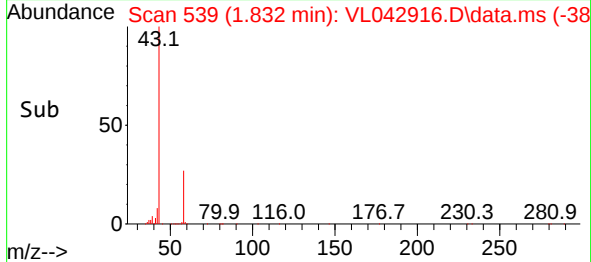
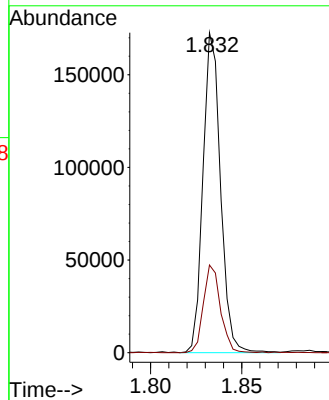
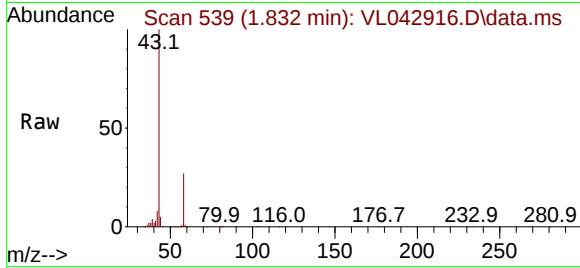
SV2

Tgt Ion: 43 Resp: 115934

Ion Ratio Lower Upper

43 100

58 26.9 22.4 33.6



#16

1,3-Butadiene

Concen: 0.121 ppbv

RT: 1.596 min Scan# 466

Delta R.T. -0.006 min

Lab File: VL042916.D

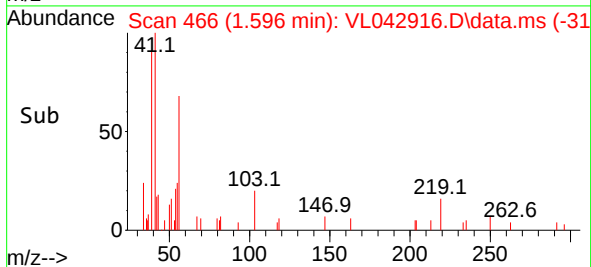
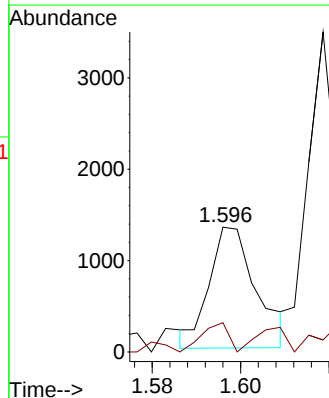
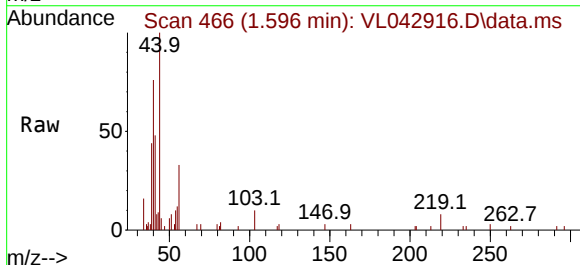
Acq: 08 Sep 2025 22:55

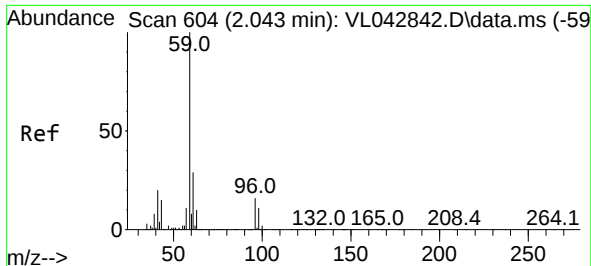
Tgt Ion: 39 Resp: 976

Ion Ratio Lower Upper

39 100

54 0.0 63.6 95.4#

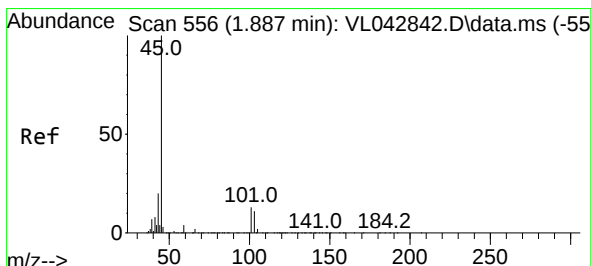
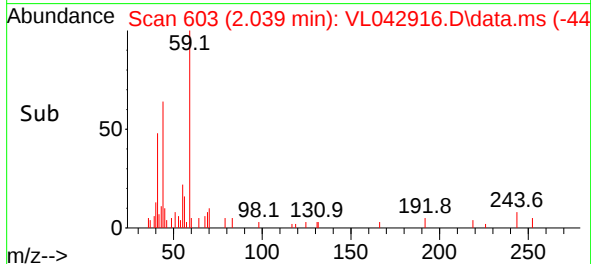
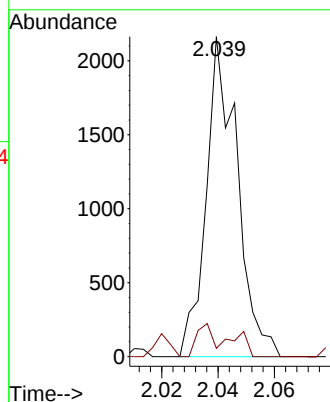
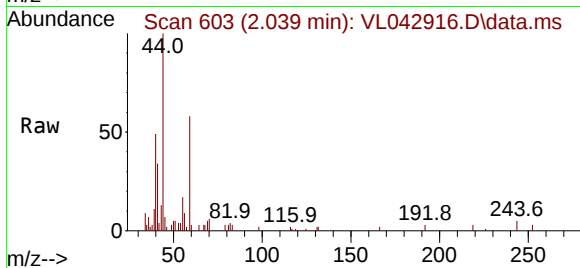




#17
tert-Butyl alcohol
Concen: 0.078 ppbv
RT: 2.039 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

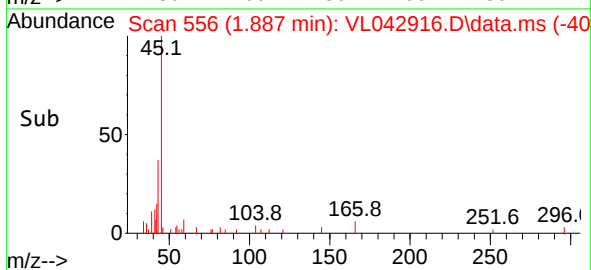
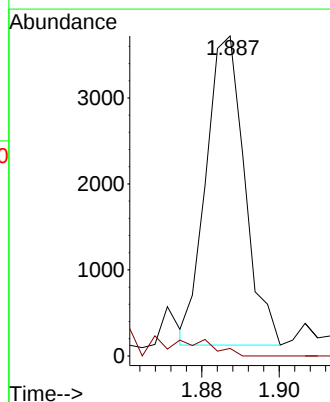
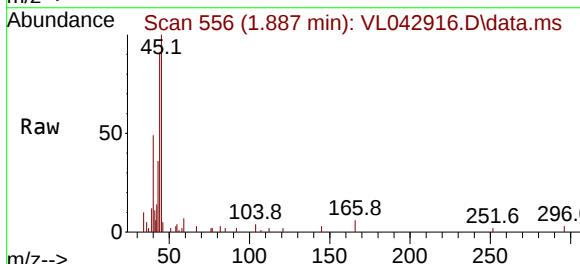
Instrument :
MSVOA_L
ClientSampleId :
SV2

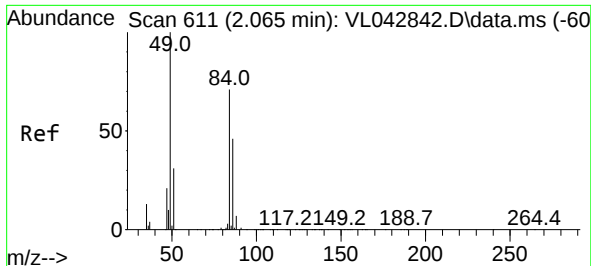
Tgt Ion: 59 Resp: 1652
Ion Ratio Lower Upper
59 100
57 13.6 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 0.235 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 45 Resp: 2487
Ion Ratio Lower Upper
45 100
58 1252.4 32.7 49.1#





#20

Methylene Chloride

Concen: 0.248 ppbv

RT: 2.059 min Scan# 611

Delta R.T. 0.003 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 84 Resp: 1840

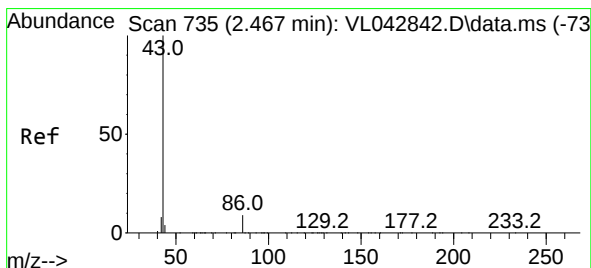
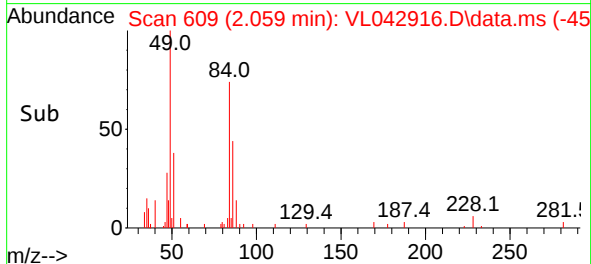
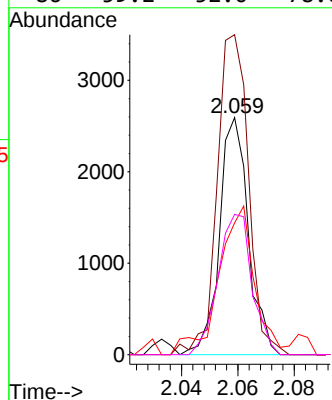
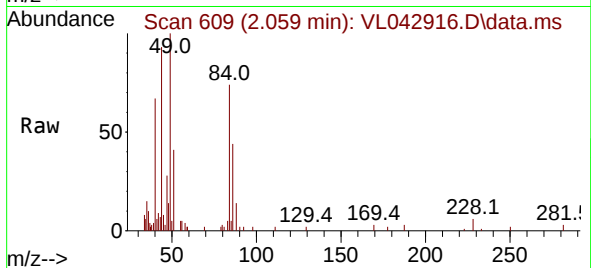
Ion Ratio Lower Upper

84 100

49 130.6 112.3 168.5

51 52.5 36.0 54.0

86 59.2 52.0 78.0



#23

Vinyl Acetate

Concen: 0.092 ppbv

RT: 2.470 min Scan# 736

Delta R.T. 0.016 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Tgt Ion: 43 Resp: 2249

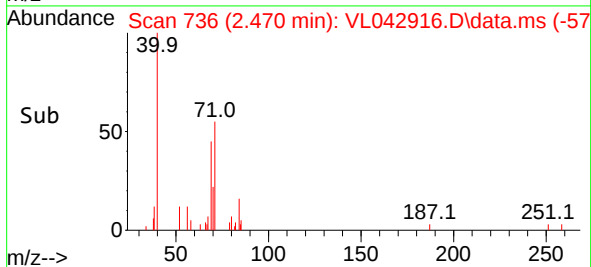
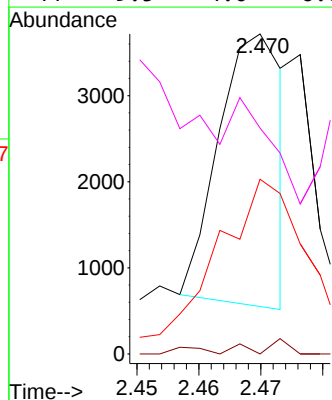
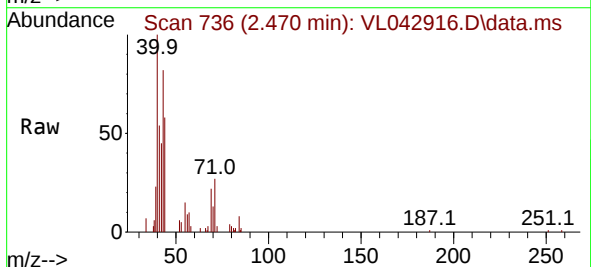
Ion Ratio Lower Upper

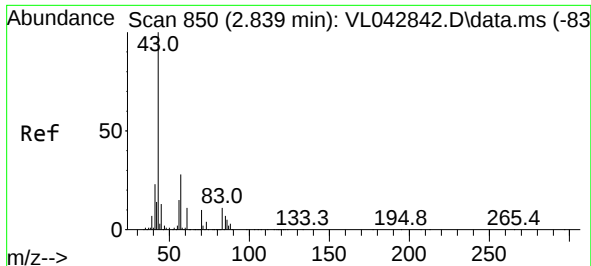
43 100

86 0.0 6.6 9.8#

42 51.7 7.0 10.6#

44 9.5 4.0 6.0#





#25

Ethyl Acetate

Concen: 0.129 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 43 Resp: 5550

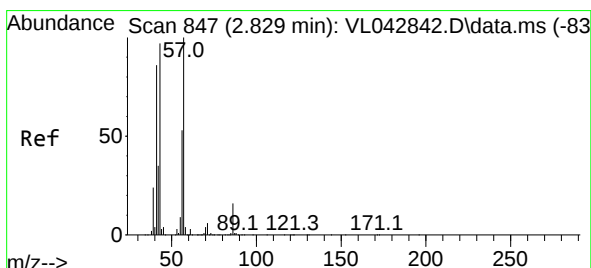
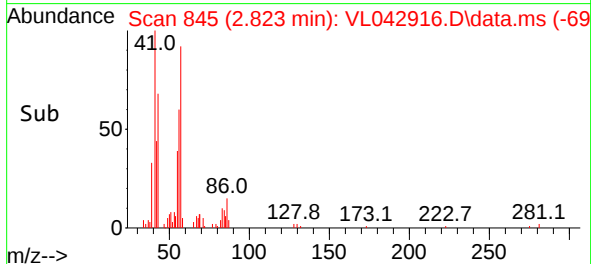
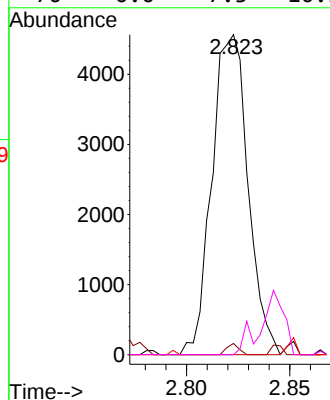
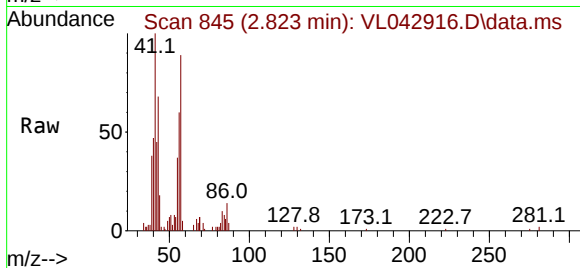
Ion Ratio Lower Upper

43 100

45 2.1 8.1 12.1#

61 0.0 7.4 11.2#

70 0.0 7.3 10.9#



#26

Hexane

Concen: 0.342 ppbv

RT: 2.823 min Scan# 845

Delta R.T. 0.006 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Tgt Ion: 57 Resp: 6775

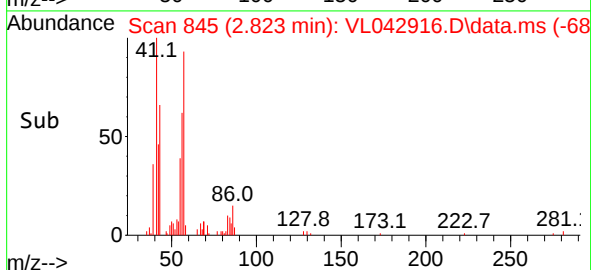
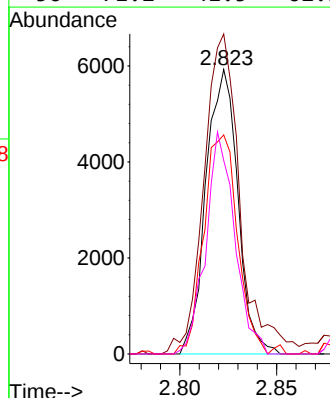
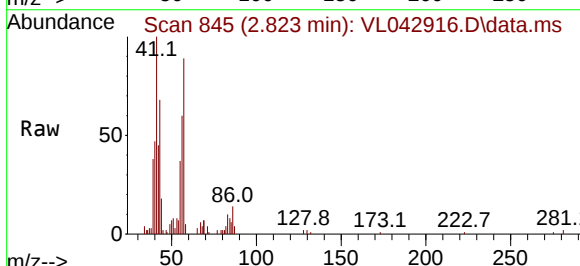
Ion Ratio Lower Upper

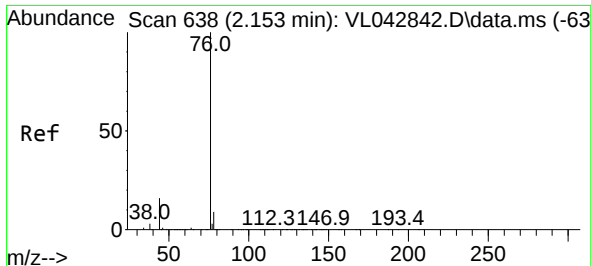
57 100

41 128.1 68.6 103.0#

43 82.8 168.5 252.7#

56 71.2 41.5 62.3#





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 2.149 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Instrument :

MSVOA_L

ClientSampleId :

SV2

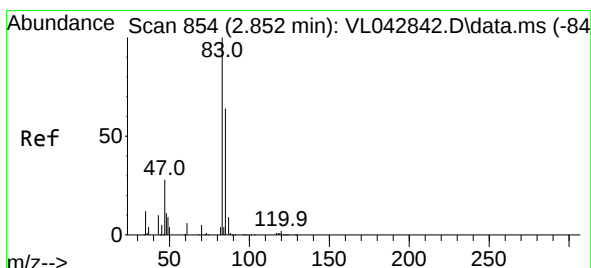
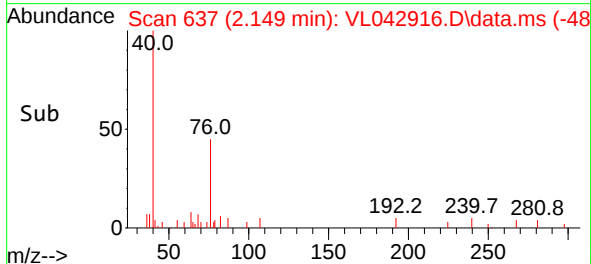
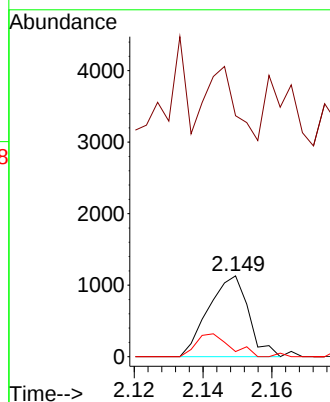
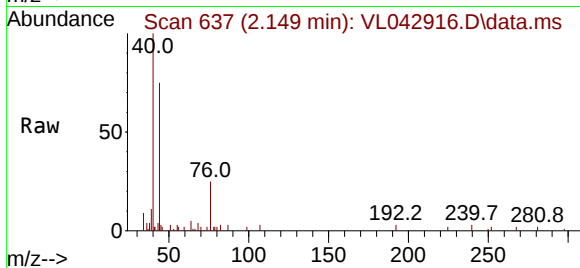
Tgt Ion: 76 Resp: 911

Ion Ratio Lower Upper

76 100

44 667.8 15.9 23.9#

78 25.2 9.5 14.3#



#29

Chloroform

Concen: 1.790 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042916.D

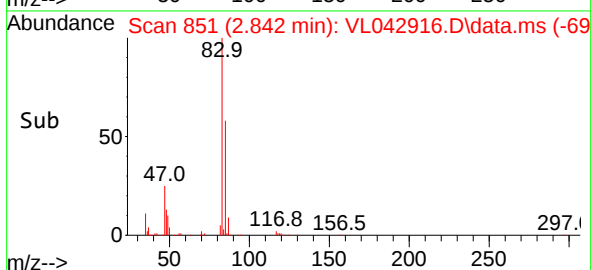
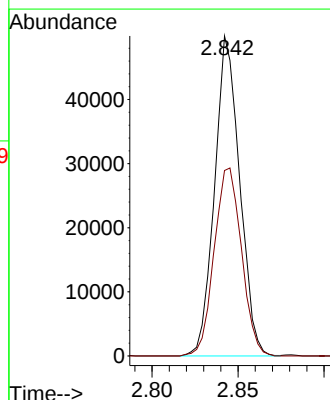
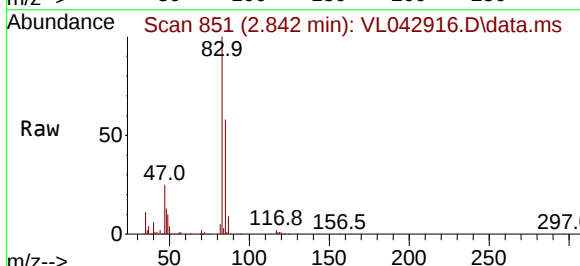
Acq: 08 Sep 2025 22:55

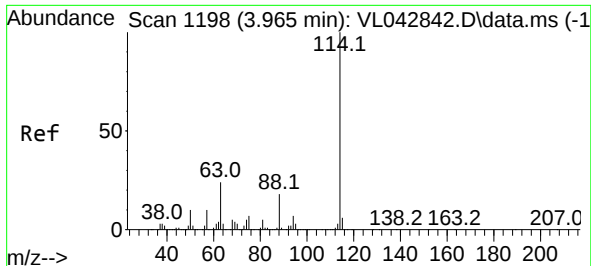
Tgt Ion: 83 Resp: 50661

Ion Ratio Lower Upper

83 100

85 58.0 51.1 76.7

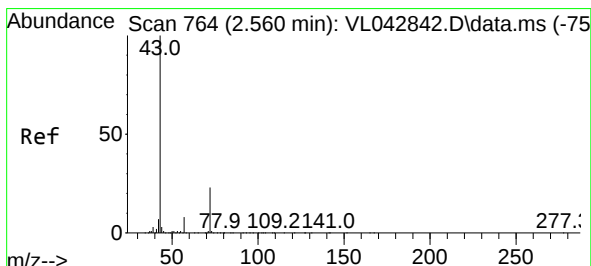
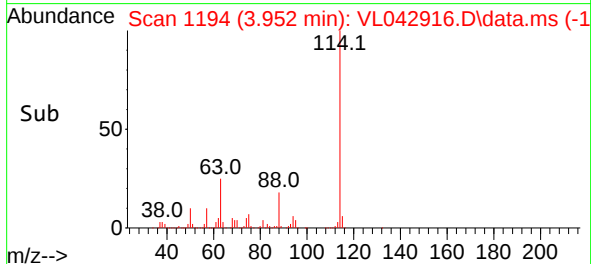
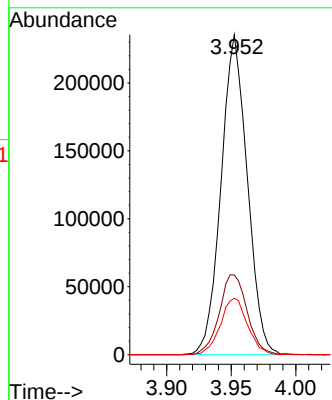
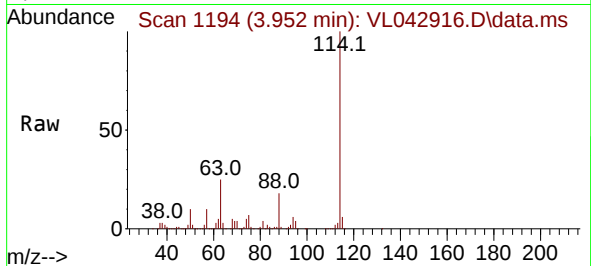




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

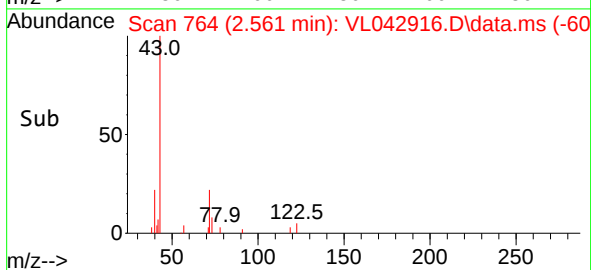
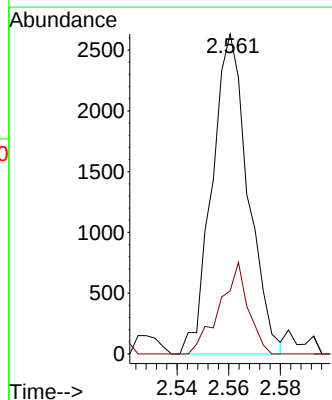
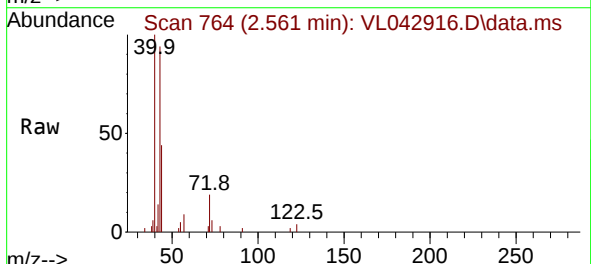
Instrument :
MSVOA_L
ClientSampleId :
SV2

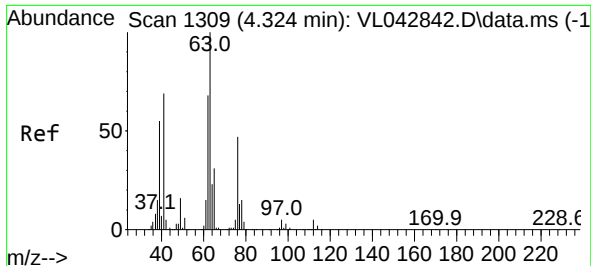
Tgt Ion:114 Resp: 332366
Ion Ratio Lower Upper
114 100
63 26.6 19.7 29.5
88 18.2 14.4 21.6



#34
2-Butanone
Concen: 0.114 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 43 Resp: 2551
Ion Ratio Lower Upper
43 100
72 22.5 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.578 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

Instrument :

MSVOA_L

ClientSampleId :

SV2

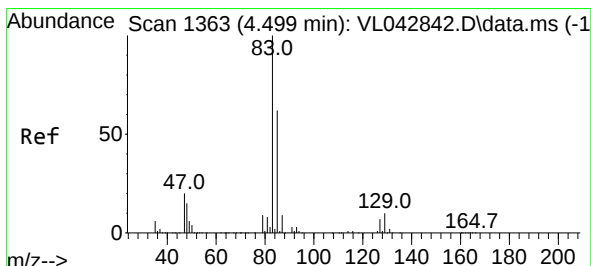
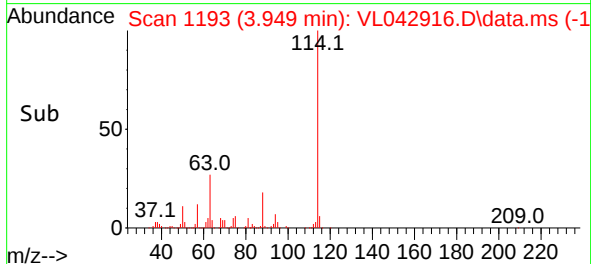
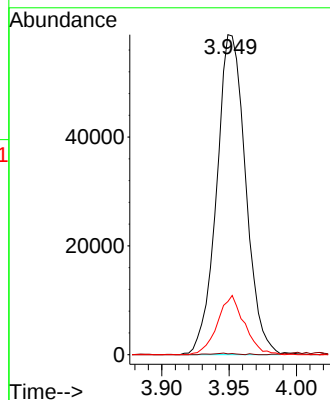
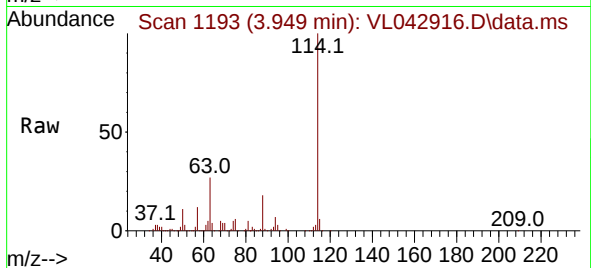
Tgt Ion: 63 Resp: 88084

Ion Ratio Lower Upper

63 100

41 0.3 55.0 82.4#

62 16.6 54.4 81.6#



#42

Bromodichloromethane

Concen: 0.107 ppbv

RT: 4.480 min Scan# 1357

Delta R.T. 0.006 min

Lab File: VL042916.D

Acq: 08 Sep 2025 22:55

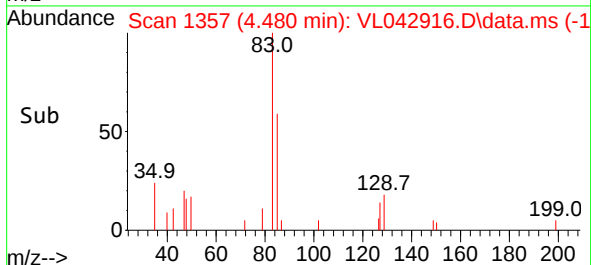
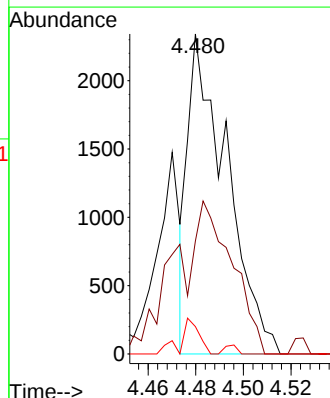
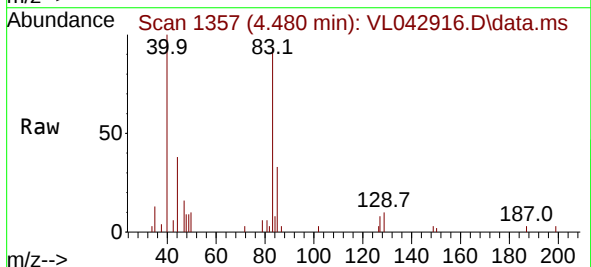
Tgt Ion: 83 Resp: 2639

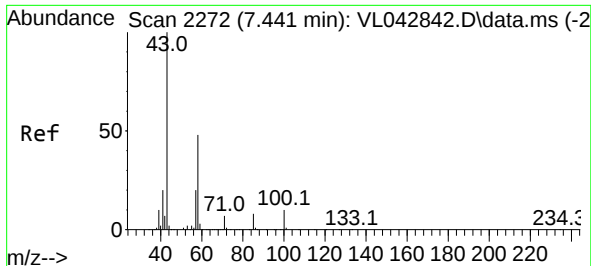
Ion Ratio Lower Upper

83 100

85 35.3 49.8 74.8#

127 8.6 5.8 8.6

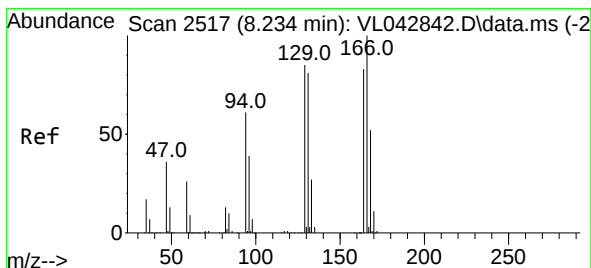
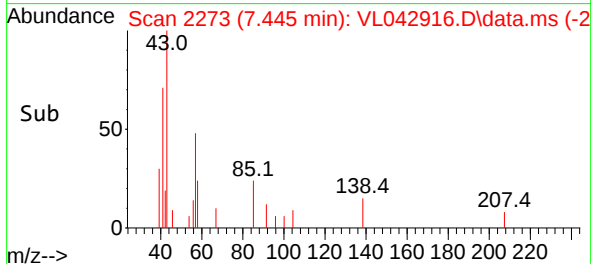
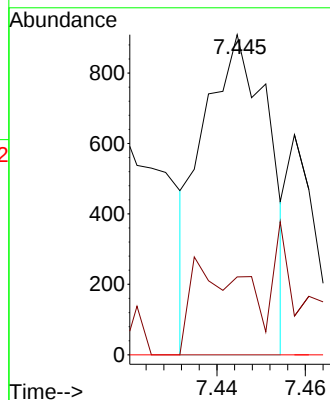
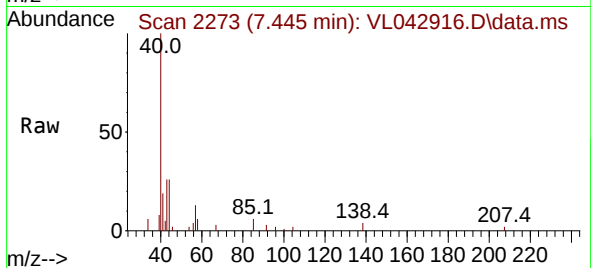




#51
2-Hexanone
Concen: 0.040 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

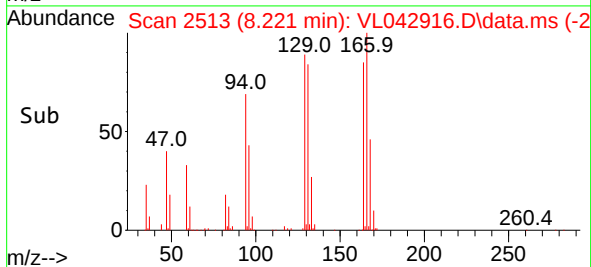
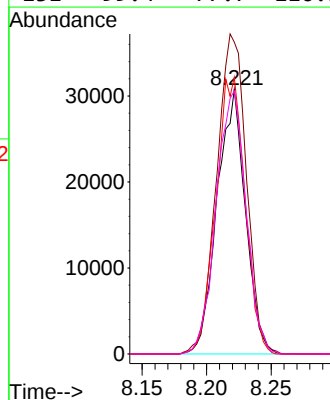
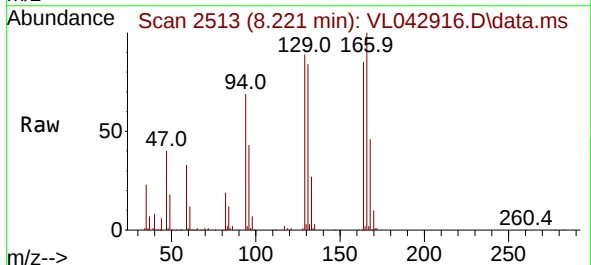
Instrument :
MSVOA_L
ClientSampleId :
SV2

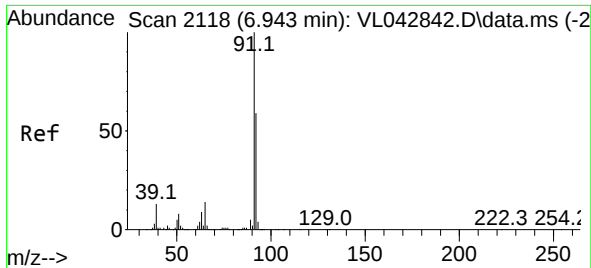
Tgt Ion: 43 Resp: 944
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 4.060 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 164 Resp: 46741
Ion Ratio Lower Upper
164 100
166 117.8 96.5 144.7
129 104.5 81.8 122.6
131 99.4 77.7 116.5

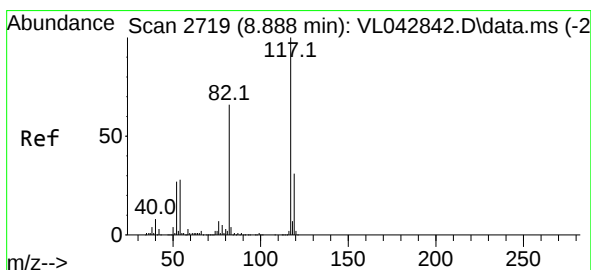
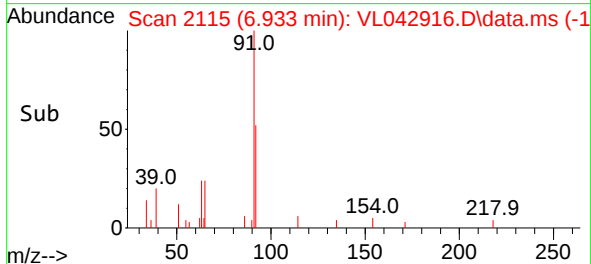
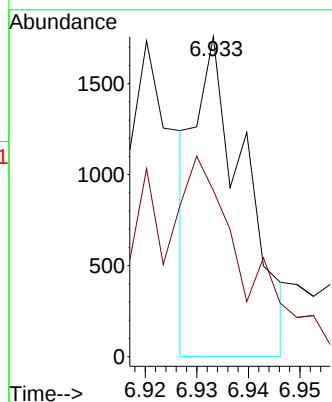
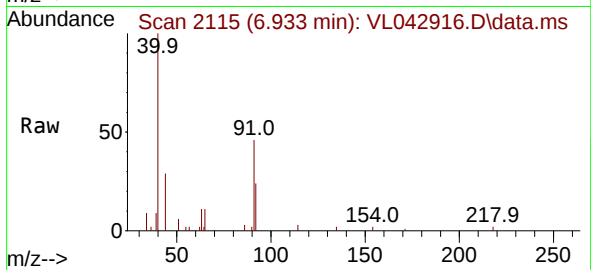




#53
Toluene
Concen: 0.031 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.019 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

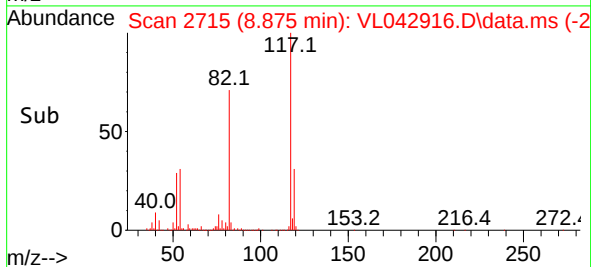
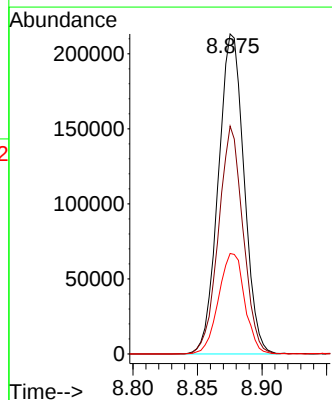
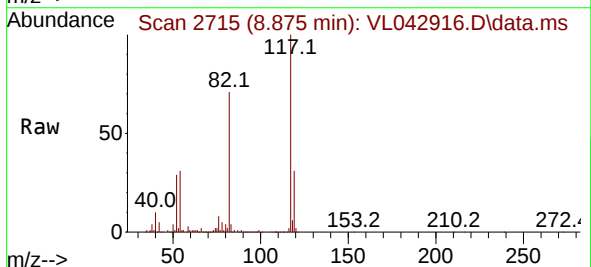
Instrument :
MSVOA_L
ClientSampleId :
SV2

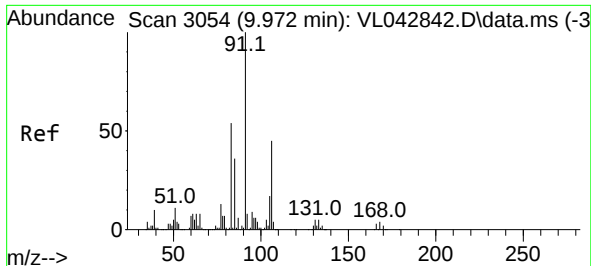
Tgt Ion: 91 Resp: 1183
Ion Ratio Lower Upper
91 100
92 161.3 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 117 Resp: 295290
Ion Ratio Lower Upper
117 100
82 68.1 54.6 81.8
119 31.9 25.9 38.9

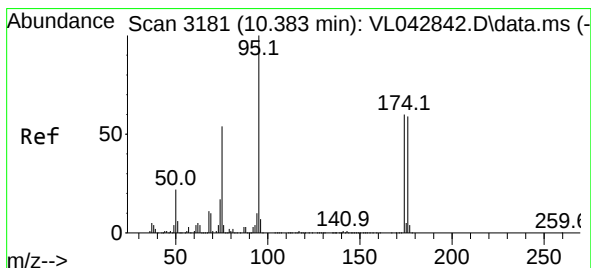
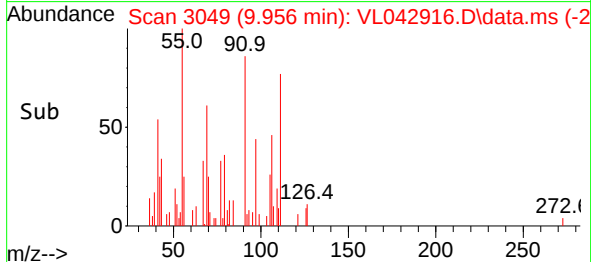
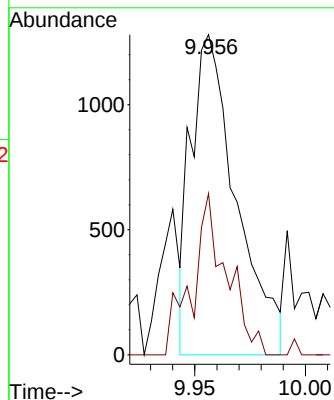
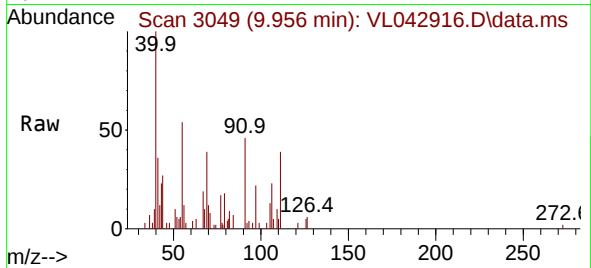




#60
o-Xylene
Concen: 0.044 ppbv
RT: 9.956 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 1825
Ion Ratio Lower Upper
91 100
106 38.5 21.8 65.4



#68
1-Bromo-4-Fluorobenzene
Concen: 11.118 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042916.D
Acq: 08 Sep 2025 22:55

Tgt Ion: 95 Resp: 246216
Ion Ratio Lower Upper
95 100
174 55.9 48.4 72.6
175 4.0 3.8 5.8

