

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042850.D
 Acq On : 13 Aug 2025 13:46
 Operator : SY/MD
 Sample : VL0813ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABL01

Quant Time: Aug 14 02:17:01 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)

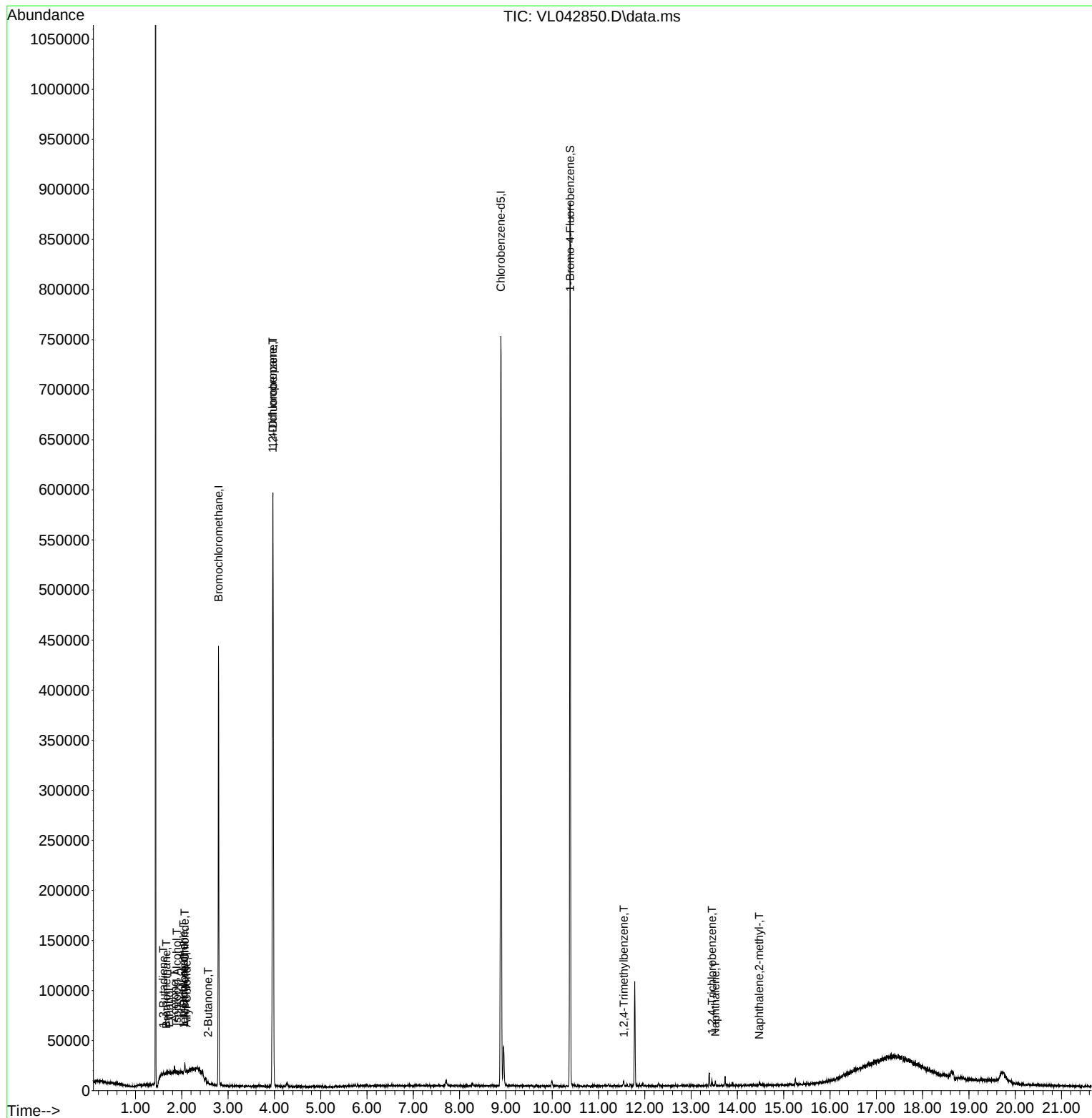
Internal Standards						
1) Bromochloromethane	2.793	49	119946	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	373094	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	324853	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	243776	10.006	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
6) Bromomethane	1.670	94	73	0.026	ppbv #	8
13) Ethanol	1.729	45	431	0.562	ppbv #	32
15) Acetone	1.839	43	3942	0.248	ppbv #	71
16) 1,3-Butadiene	1.602	39	848	0.118	ppbv #	10
17) tert-Butyl alcohol	2.046	59	609	0.032	ppbv #	1
18) 1,1-Dichloroethene	2.039	96	159	0.026	ppbv #	1
19) Isopropyl Alcohol	1.890	45	803	0.085	ppbv #	63
20) Methylene Chloride	2.065	84	1660	0.250	ppbv #	84
21) Allyl Chloride	2.104	41	243	0.022	ppbv #	23
34) 2-Butanone	2.567	43	1123	0.045	ppbv #	68
39) 1,2-Dichloropropane	3.965	63	93820	7.190	ppbv #	27
74) 1,2,4-Trimethylbenzene	11.545	105	1284	0.025	ppbv #	67
79) Naphthalene	13.520	128	2297	0.050	ppbv #	95
80) Naphthalene,2-methyl-	14.471	142	1226	0.071	ppbv	94
81) 1,2,4-Trichlorobenzene	13.448	180	894	0.038	ppbv #	91

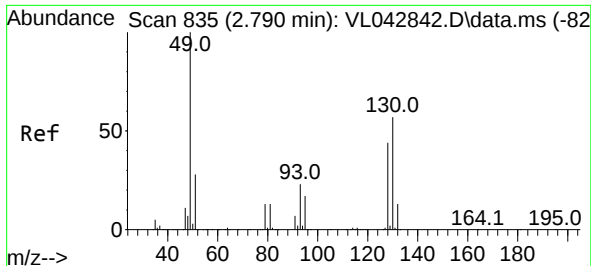
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VL0813ABL01

Quant Time: Aug 14 02:17:01 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

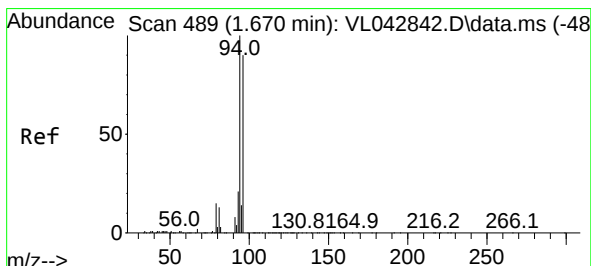
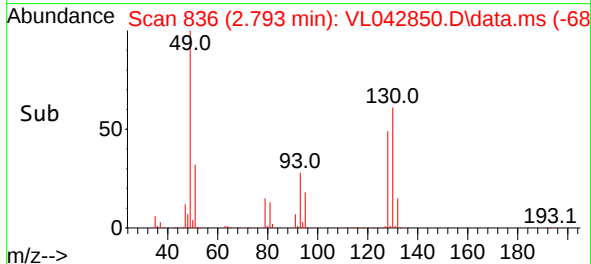
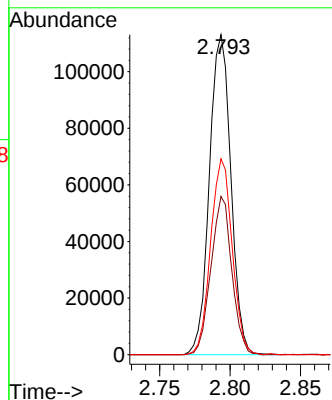
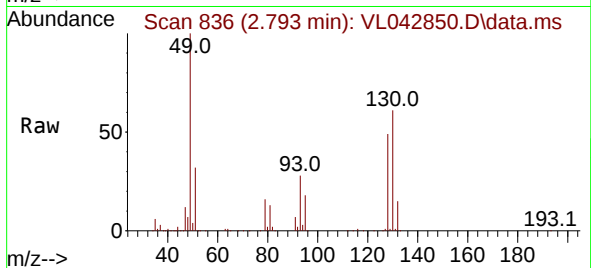




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

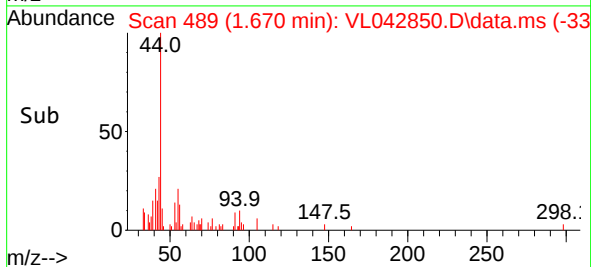
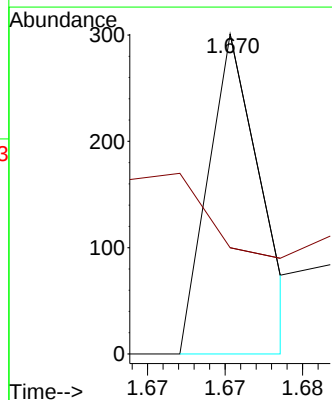
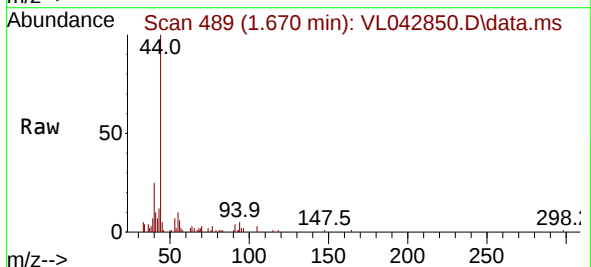
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

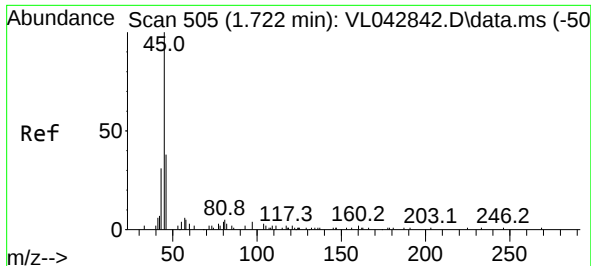
Tgt Ion: 49 Resp: 119946
Ion Ratio Lower Upper
49 100
128 48.0 23.7 71.1
130 61.5 30.6 91.6



#6
Bromomethane
Concen: 0.026 ppbv
RT: 1.670 min Scan# 489
Delta R.T. -0.000 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 94 Resp: 73
Ion Ratio Lower Upper
94 100
96 3.3 72.1 108.1#

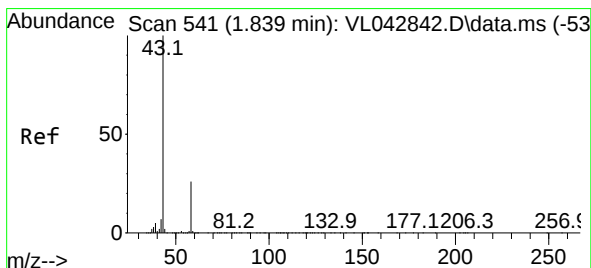
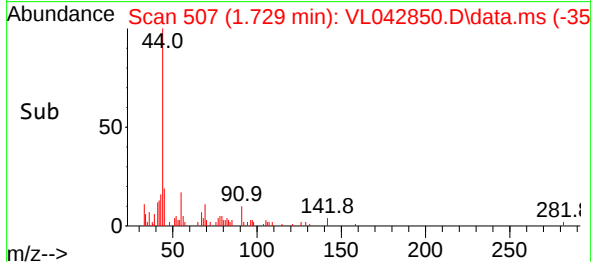
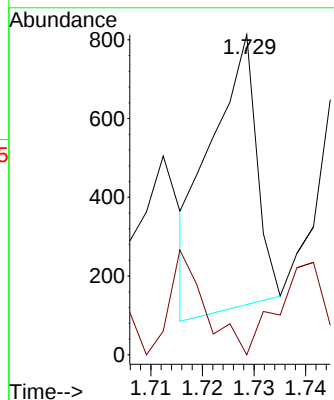
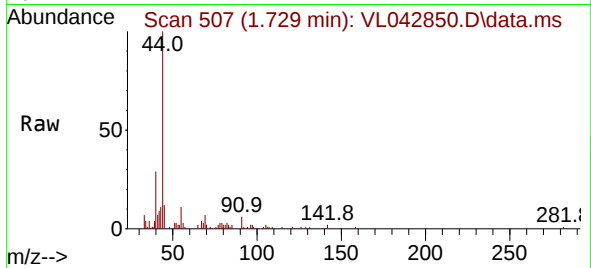




#13
Ethanol
Concen: 0.562 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

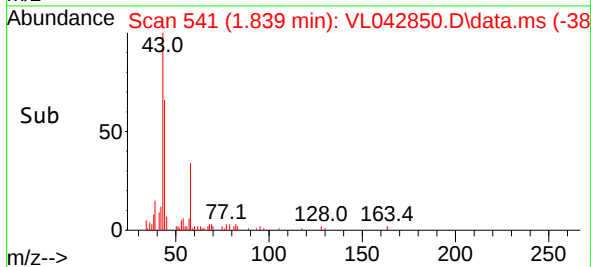
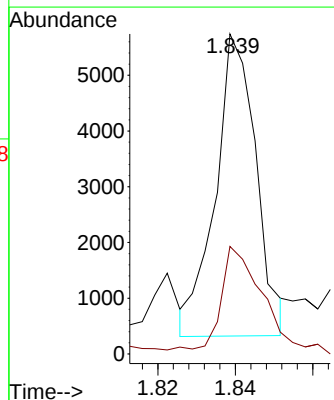
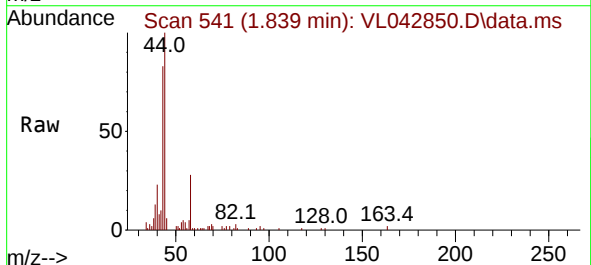
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

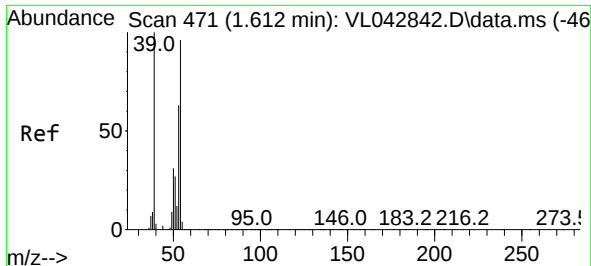
Tgt Ion: 45 Resp: 431
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#



#15
Acetone
Concen: 0.248 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 43 Resp: 3942
Ion Ratio Lower Upper
43 100
58 43.0 22.4 33.6#

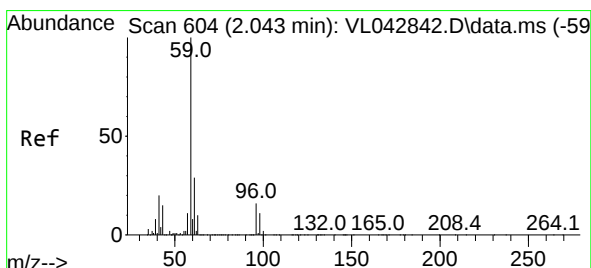
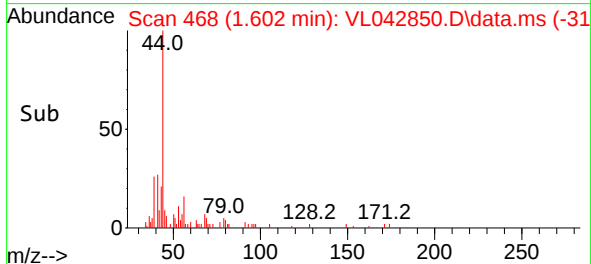
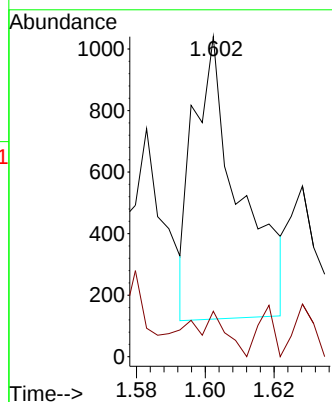
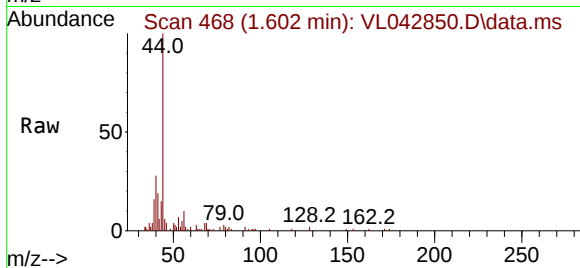




#16
1,3-Butadiene
Concen: 0.118 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

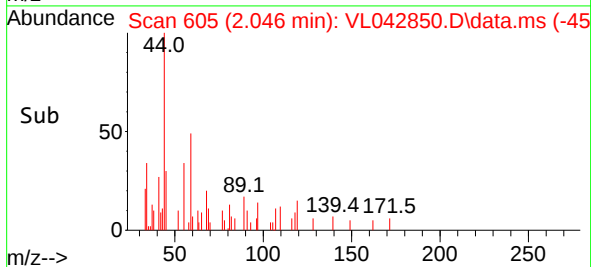
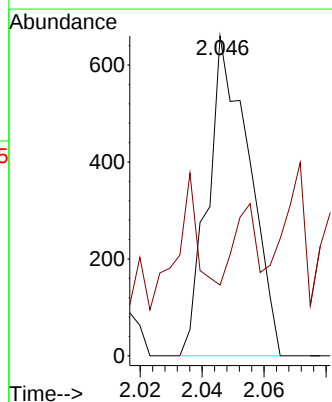
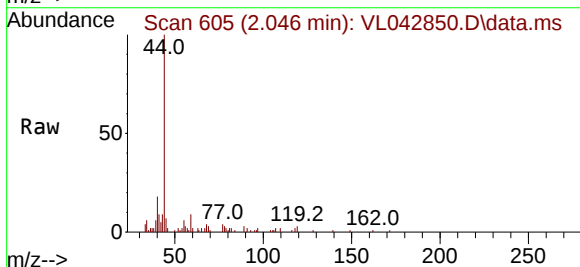
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

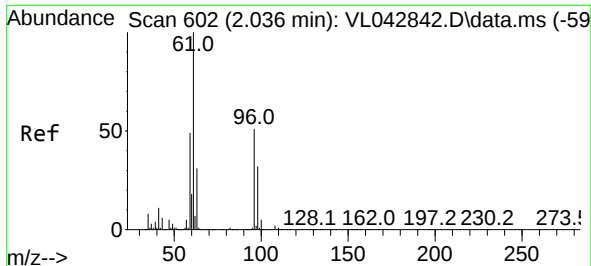
Tgt Ion: 39 Resp: 848
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.032 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 59 Resp: 609
Ion Ratio Lower Upper
59 100
57 74.1 9.0 13.4#





#18

1,1-Dichloroethene

Concen: 0.026 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

Instrument :

MSVOA_1

ClientSampleId :

VL0813ABL01

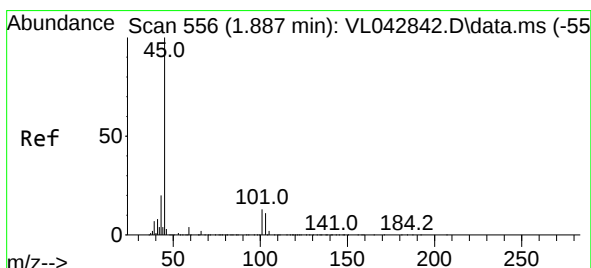
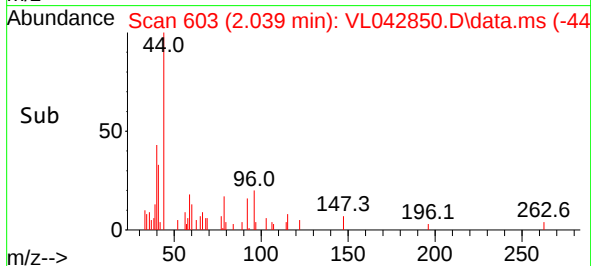
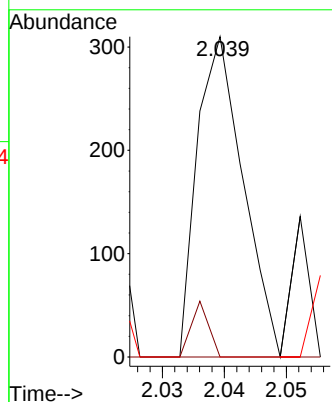
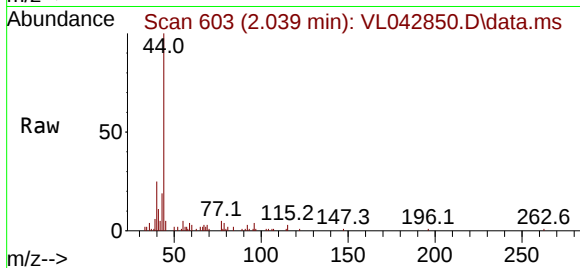
Tgt Ion: 96 Resp: 159

Ion Ratio Lower Upper

96 100

61 0.0 158.2 237.4#

98 0.0 50.6 76.0#



#19

Isopropyl Alcohol

Concen: 0.085 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.003 min

Lab File: VL042850.D

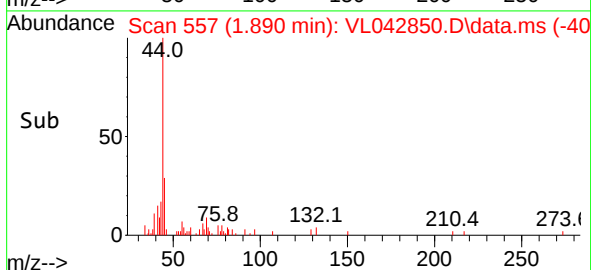
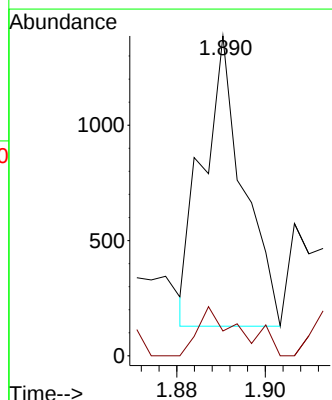
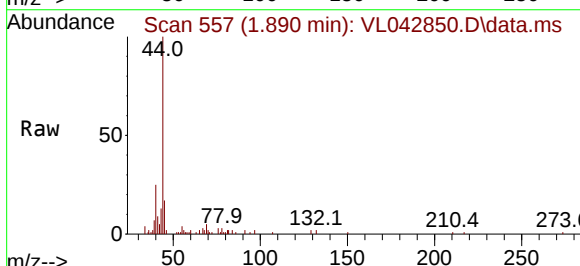
Acq: 13 Aug 2025 13:46

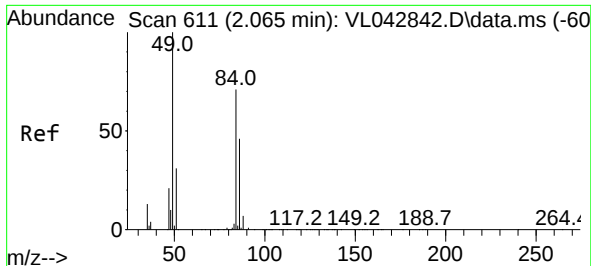
Tgt Ion: 45 Resp: 803

Ion Ratio Lower Upper

45 100

58 17.7 32.7 49.1#

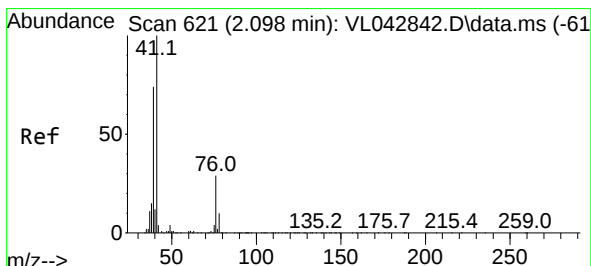
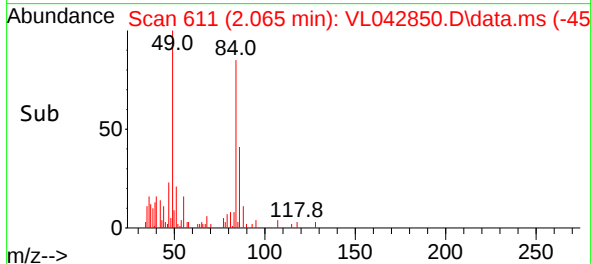
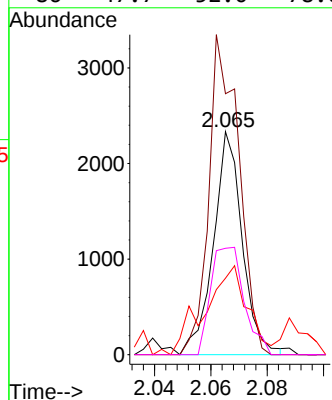
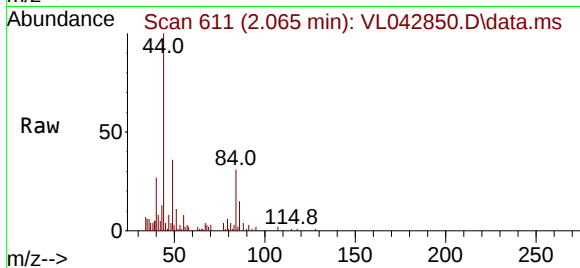




#20
Methylene Chloride
Concen: 0.250 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

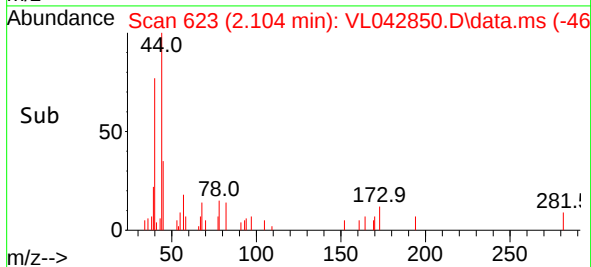
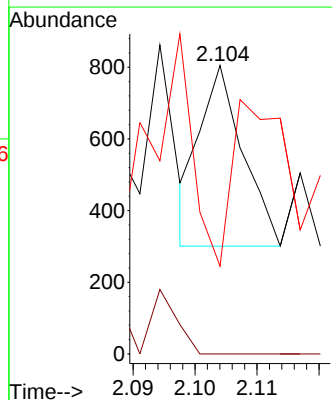
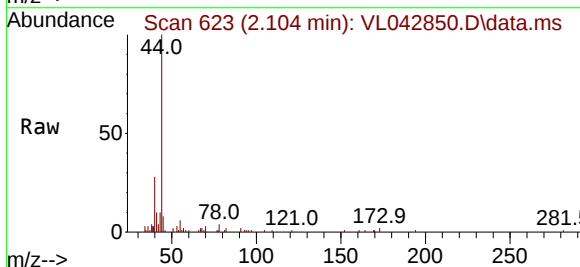
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

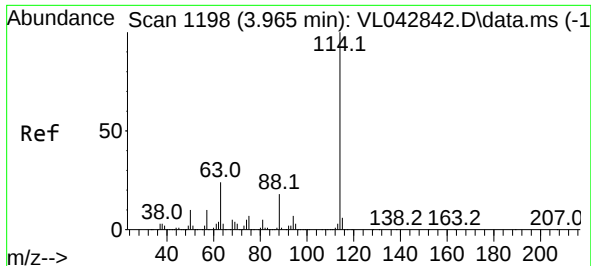
Tgt Ion:	84	Resp:	1660
Ion	Ratio	Lower	Upper
84	100		
49	127.9	112.3	168.5
51	27.5	36.0	54.0#
86	47.7	52.0	78.0#



#21
Allyl Chloride
Concen: 0.022 ppbv
RT: 2.104 min Scan# 623
Delta R.T. 0.006 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion:	41	Resp:	243
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.9	35.9#
39	0.0	57.8	86.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABL01

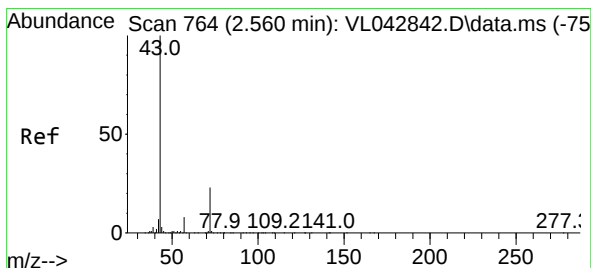
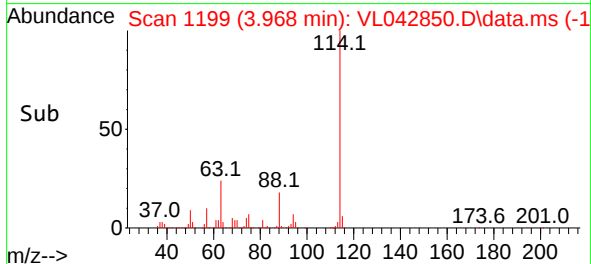
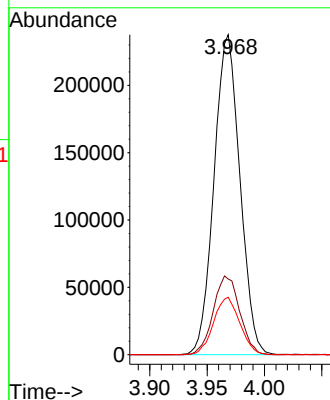
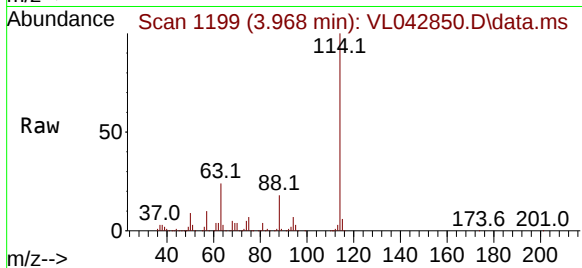
Tgt Ion:114 Resp: 373094

Ion Ratio Lower Upper

114 100

63 25.1 19.7 29.5

88 18.2 14.4 21.6



#34

2-Butanone

Concen: 0.045 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042850.D

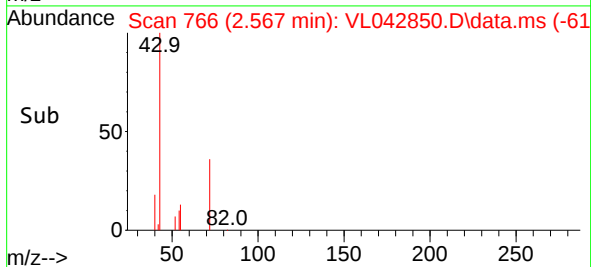
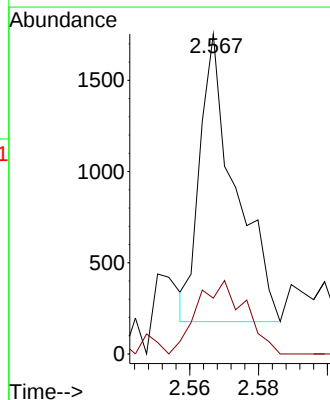
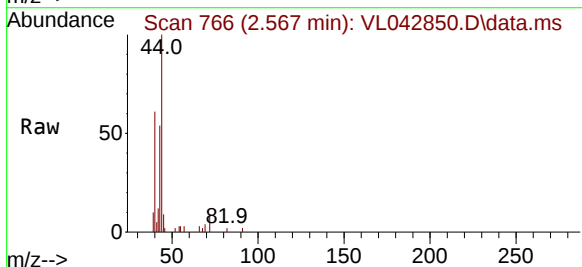
Acq: 13 Aug 2025 13:46

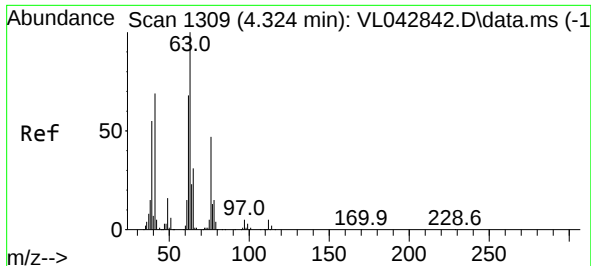
Tgt Ion: 43 Resp: 1123

Ion Ratio Lower Upper

43 100

72 38.8 18.6 28.0#





#39

1,2-Dichloropropane

Concen: 7.190 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.359 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

Instrument :

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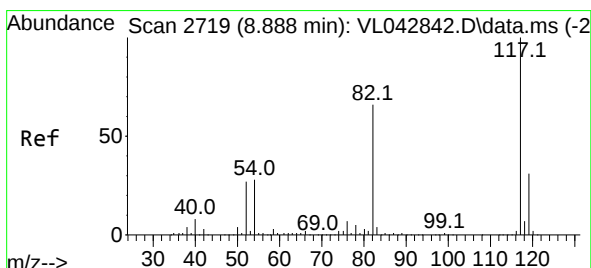
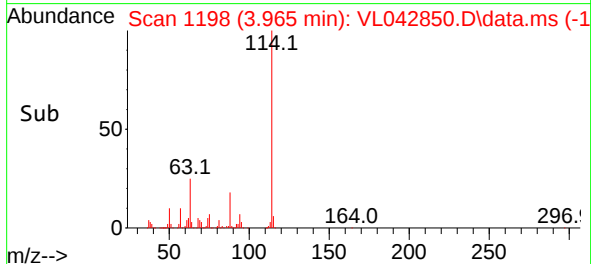
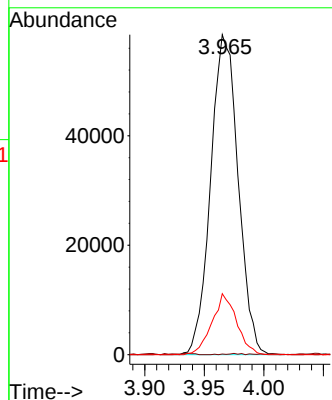
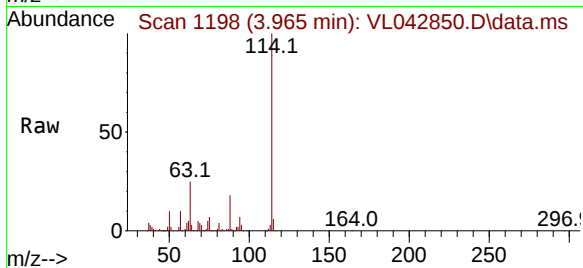
Tgt Ion: 63 Resp: 93820

Ion Ratio Lower Upper

63 100

41 0.1 55.0 82.4#

62 19.0 54.4 81.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2720

Delta R.T. 0.003 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

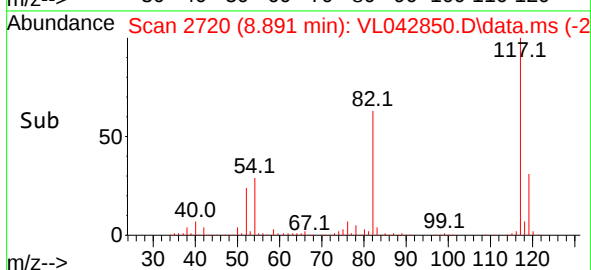
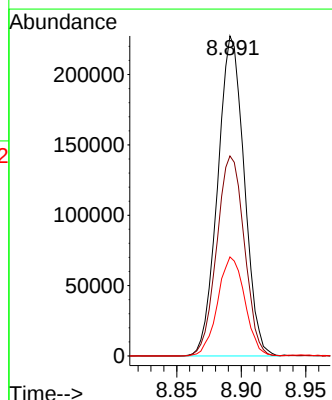
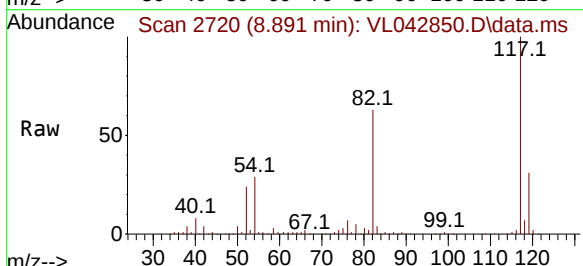
Tgt Ion: 117 Resp: 324853

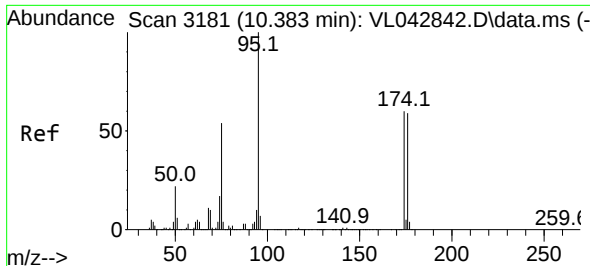
Ion Ratio Lower Upper

117 100

82 64.9 54.6 81.8

119 31.9 25.9 38.9

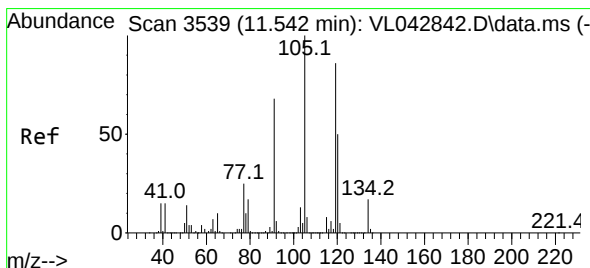
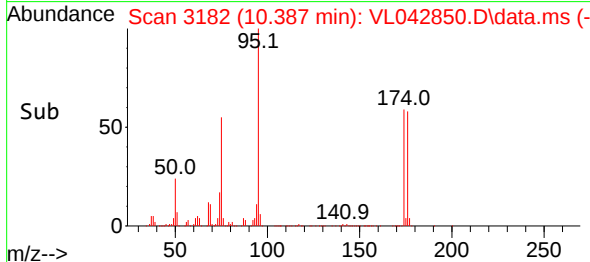
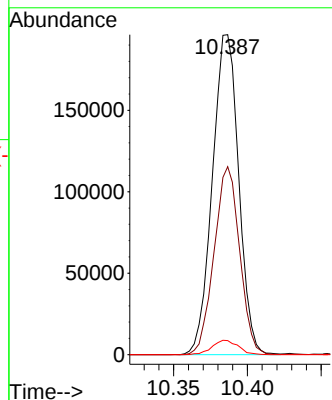
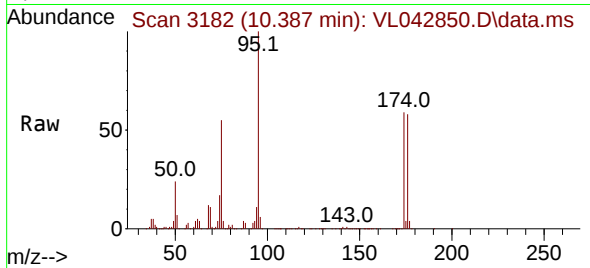




#68
1-Bromo-4-Fluorobenzene
Concen: 10.006 ppbv
RT: 10.387 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

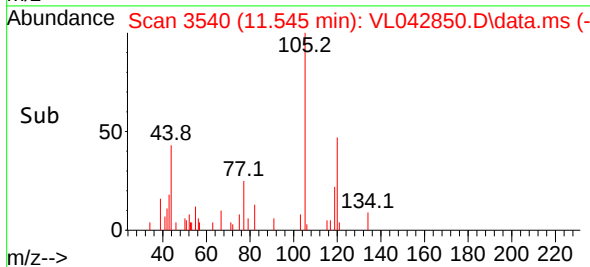
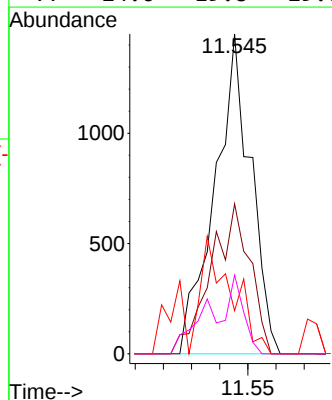
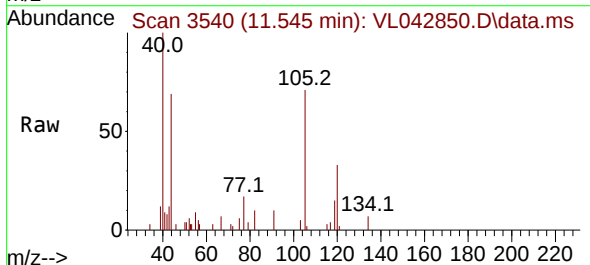
Instrument :
MSVOA_L
ClientSampleId :
VL0813ABL01

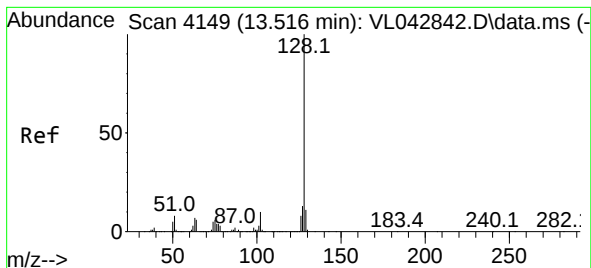
Tgt Ion: 95 Resp: 243776
Ion Ratio Lower Upper
95 100
174 57.2 48.4 72.6
175 4.5 3.8 5.8



#74
1,2,4-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.003 min
Lab File: VL042850.D
Acq: 13 Aug 2025 13:46

Tgt Ion: 105 Resp: 1284
Ion Ratio Lower Upper
105 100
120 50.4 39.8 59.6
91 13.4 54.2 81.4#
77 24.6 19.8 29.6





#79

Naphthalene

Concen: 0.050 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

Instrument :

MSVOA_L

ClientSampleId :

VL0813ABL01

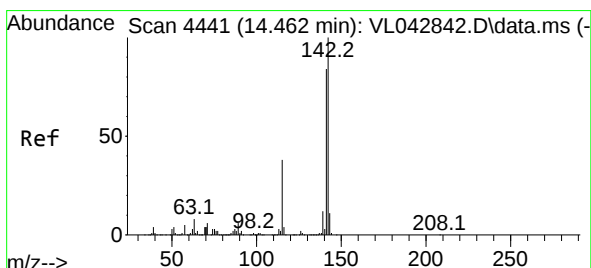
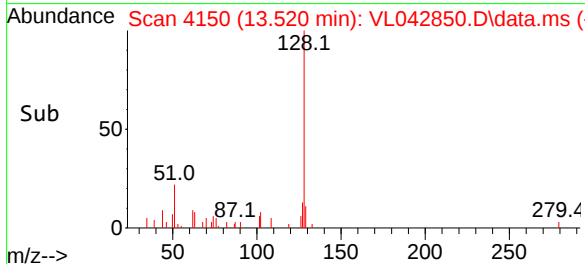
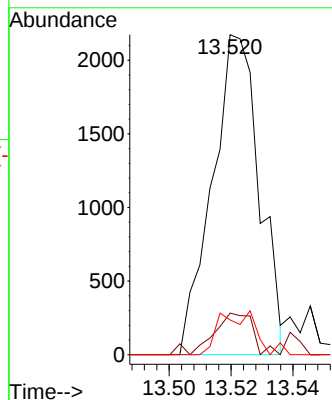
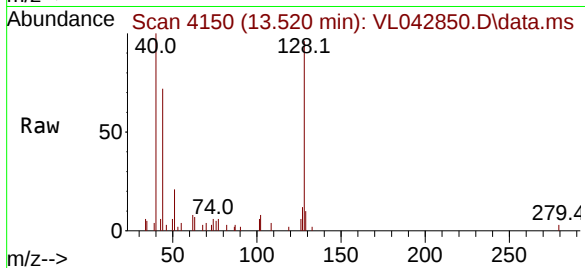
Tgt Ion:128 Resp: 2297

Ion Ratio Lower Upper

128 100

127 9.6 10.6 16.0#

129 10.9 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 0.071 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.010 min

Lab File: VL042850.D

Acq: 13 Aug 2025 13:46

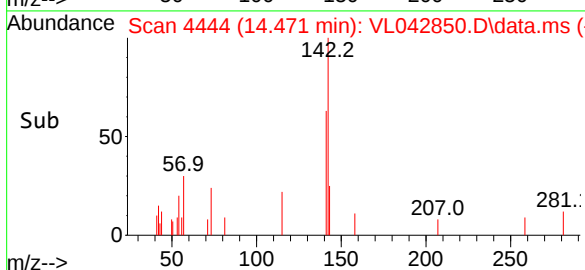
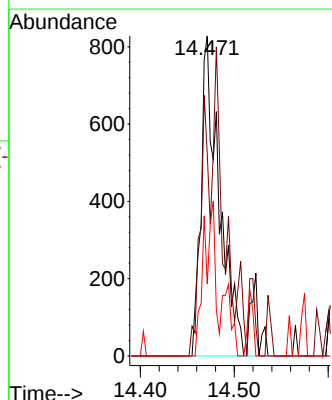
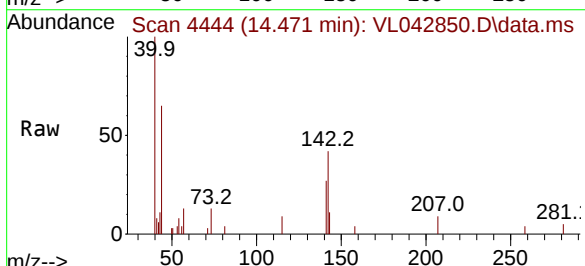
Tgt Ion:142 Resp: 1226

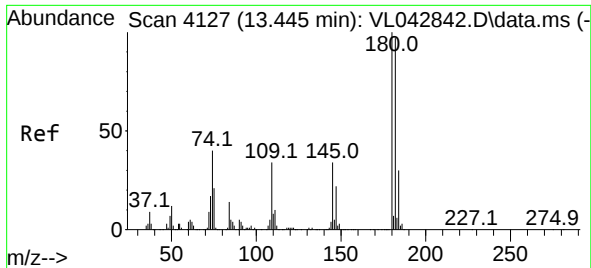
Ion Ratio Lower Upper

142 100

141 91.1 67.0 100.6

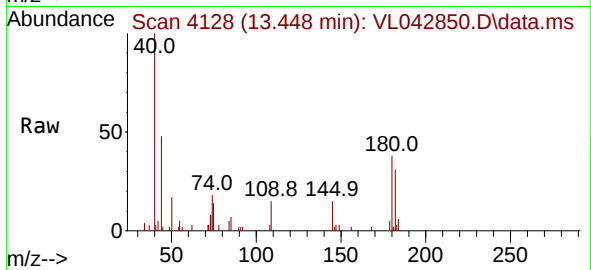
115 37.5 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.038 ppbv
 RT: 13.448 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042850.D
 Acq: 13 Aug 2025 13:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0813ABL01



Tgt Ion:180 Resp: 894
 Ion Ratio Lower Upper
 180 100
 182 101.2 76.9 115.3
 184 19.7 24.5 36.7#

