

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042216.D
 Acq On : 04 Apr 2025 09:41
 Operator : SY/MD
 Sample : VL0404ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABL01

Quant Time: Apr 05 01:59:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

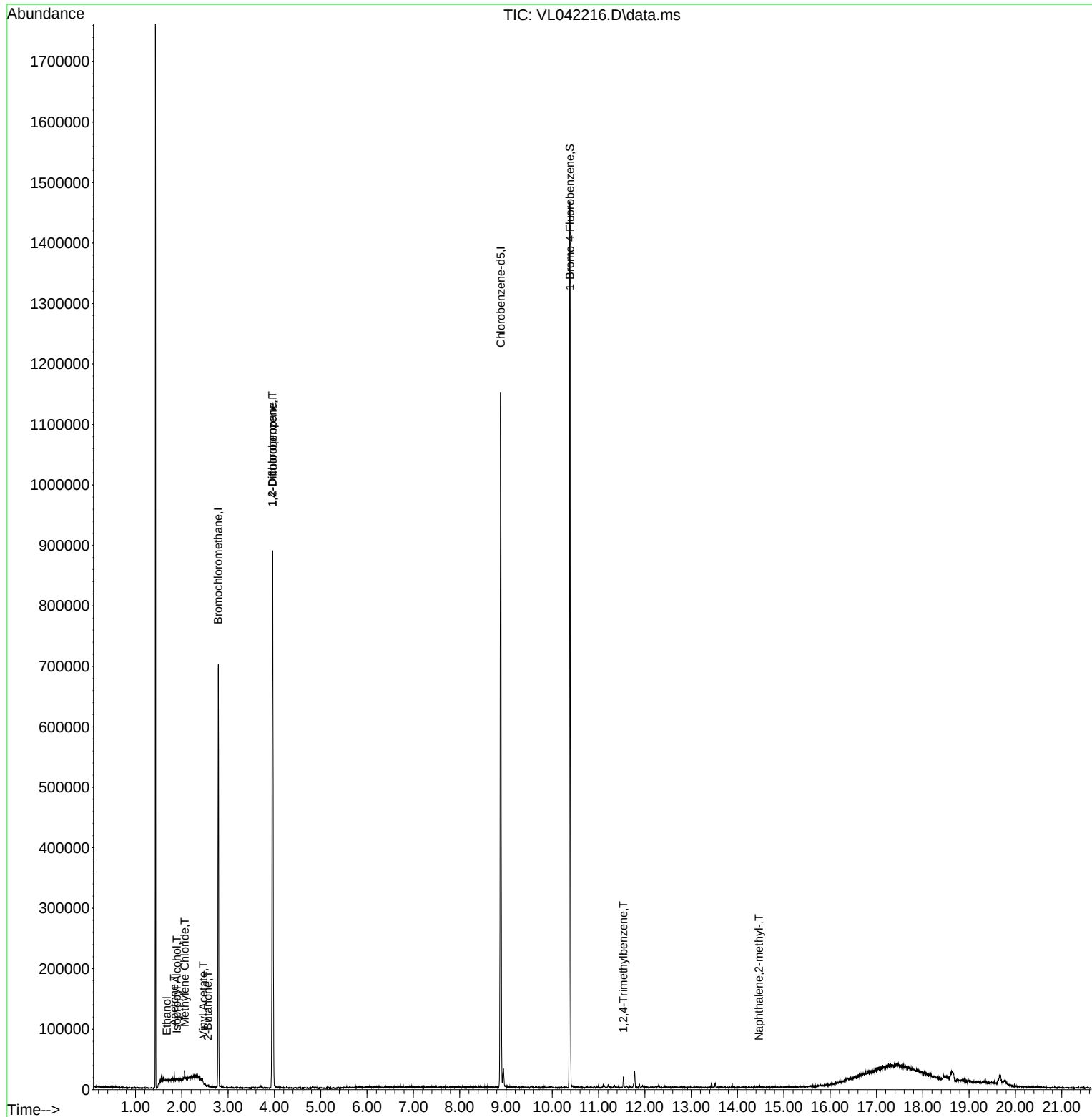
Internal Standards						
1) Bromochloromethane	2.787	49	191004	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	523611	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	464191	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	364475	9.561	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%
Target Compounds						
					Qvalue	
13) Ethanol	1.680	45	244	0.195	ppbv #	1
15) Acetone	1.835	43	6383	0.239	ppbv	96
19) Isopropyl Alcohol	1.890	45	1199	0.080	ppbv #	30
20) Methylene Chloride	2.062	84	1745	0.175	ppbv #	69
23) Vinyl Acetate	2.463	43	476	0.041	ppbv #	1
34) 2-Butanone	2.564	43	1799	0.047	ppbv #	86
39) 1,2-Dichloropropane	3.959	63	135759	7.181	ppbv #	21
74) 1,2,4-Trimethylbenzene	11.536	105	5848	0.071	ppbv #	68
80) Naphthalene,2-methyl-	14.465	142	1649	0.037	ppbv	87

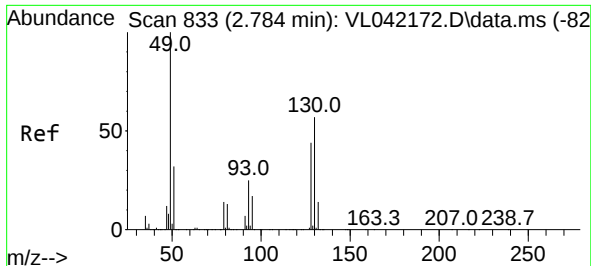
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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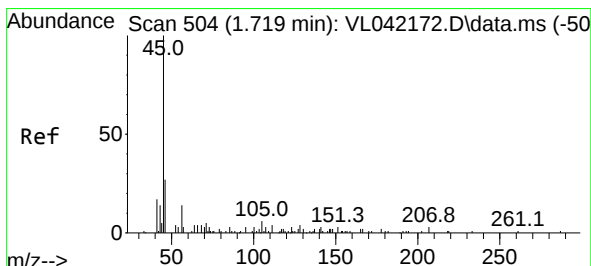
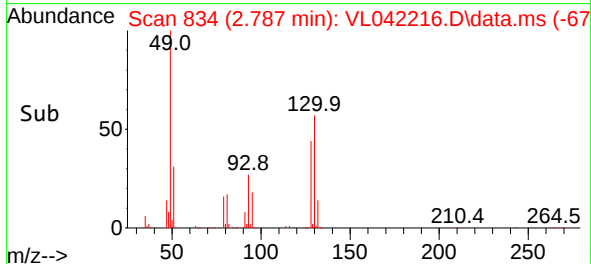
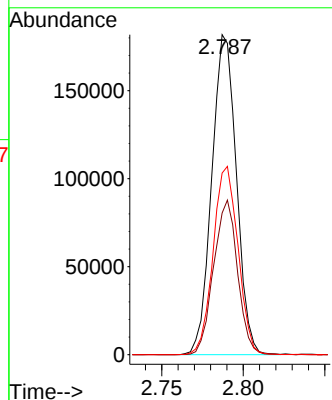
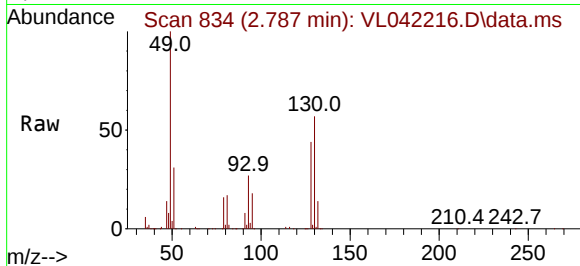




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042216.D
 Acq: 04 Apr 2025 09:41

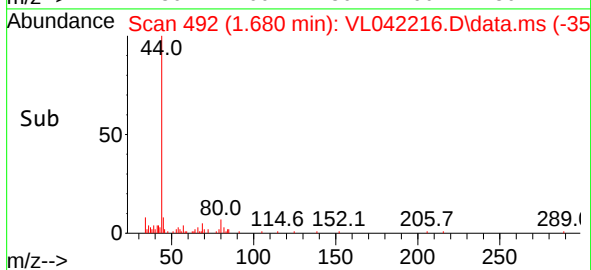
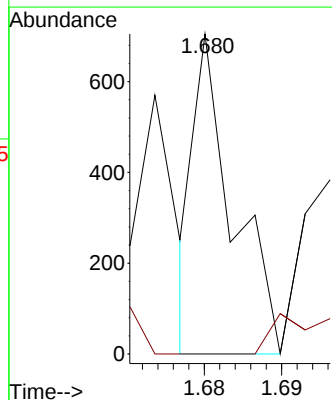
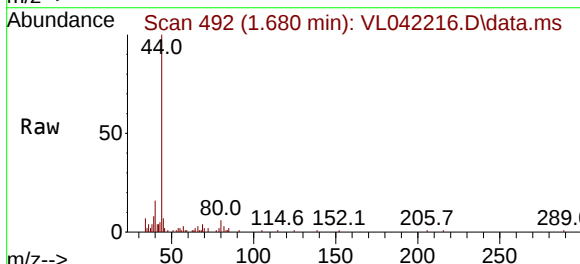
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0404ABL01

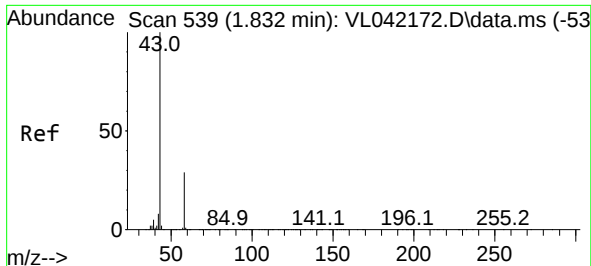
Tgt Ion: 49 Resp: 191004
 Ion Ratio Lower Upper
 49 100
 128 47.0 22.9 68.5
 130 59.5 28.8 86.4



#13
 Ethanol
 Concen: 0.195 ppbv
 RT: 1.680 min Scan# 492
 Delta R.T. -0.039 min
 Lab File: VL042216.D
 Acq: 04 Apr 2025 09:41

Tgt Ion: 45 Resp: 244
 Ion Ratio Lower Upper
 45 100
 46 130.7 20.2 80.8#





#15

Acetone

Concen: 0.239 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042216.D

Acq: 04 Apr 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

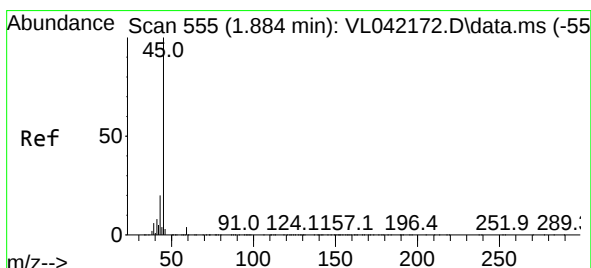
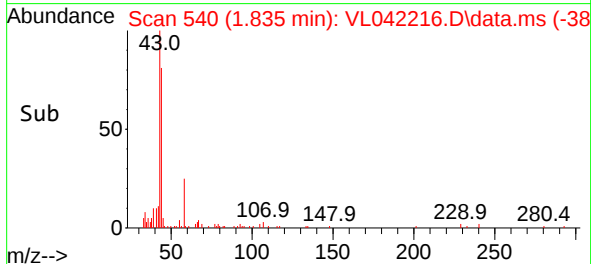
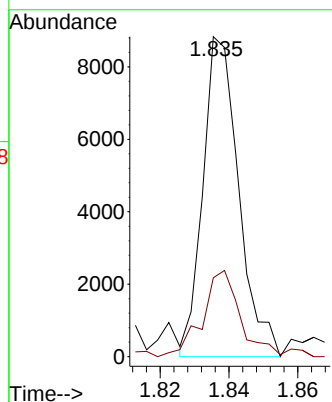
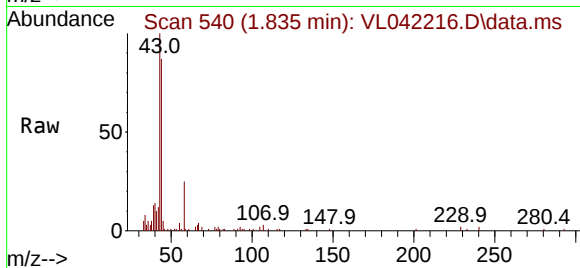
VL0404ABL01

Tgt Ion: 43 Resp: 6383

Ion Ratio Lower Upper

43 100

58 31.3 23.2 34.8



#19

Isopropyl Alcohol

Concen: 0.080 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042216.D

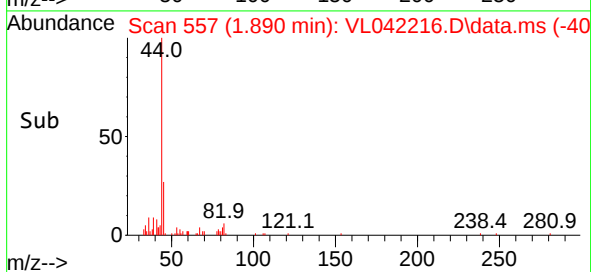
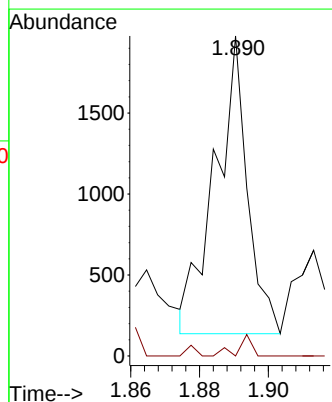
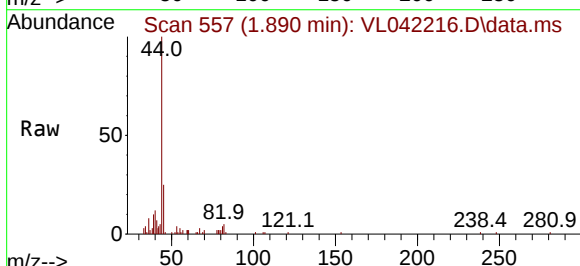
Acq: 04 Apr 2025 09:41

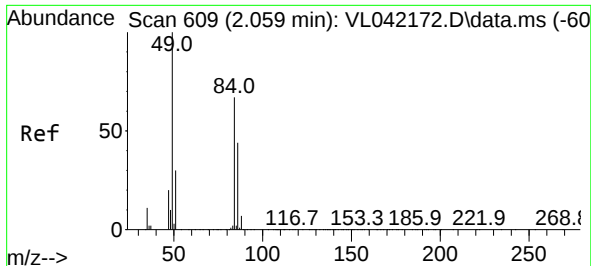
Tgt Ion: 45 Resp: 1199

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#

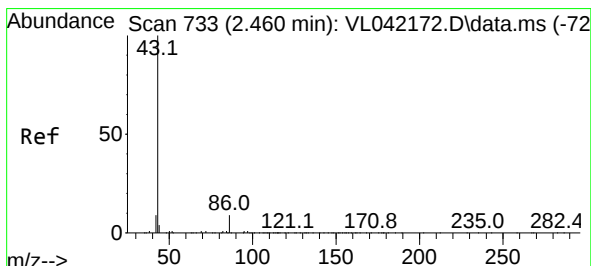
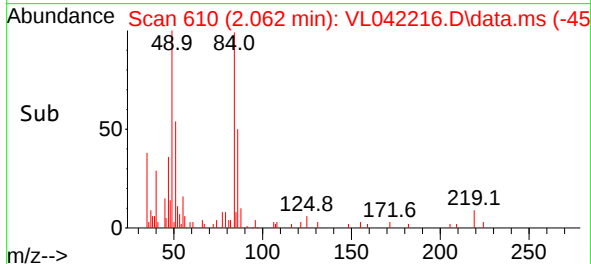
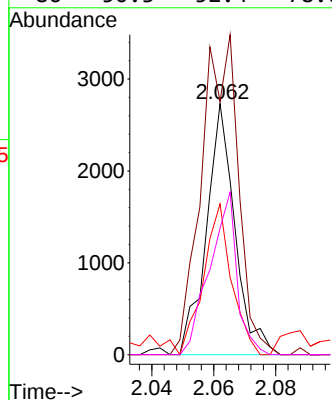
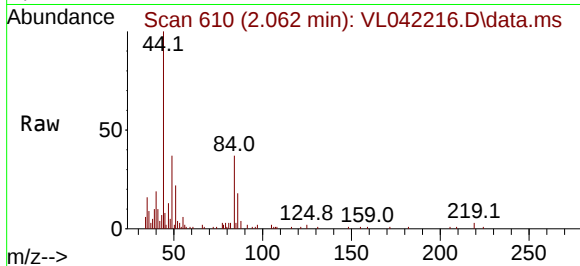




#20
Methylene Chloride
Concen: 0.175 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

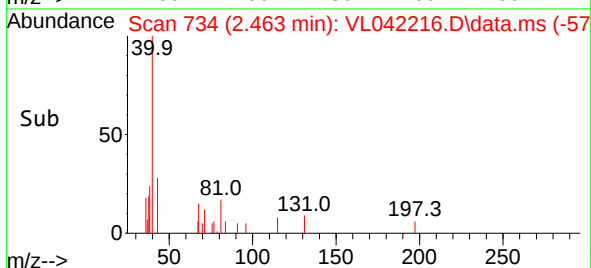
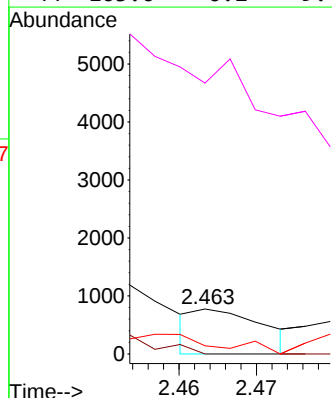
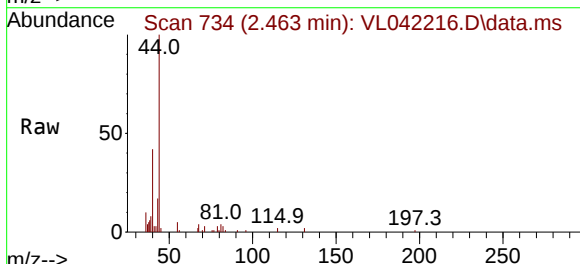
Instrument :
MSVOA_L
ClientSampleId :
VL0404ABL01

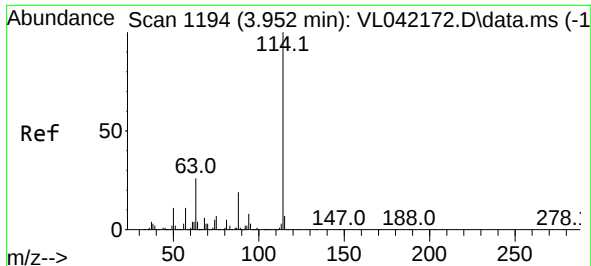
Tgt Ion:	84	Resp:	1745
Ion	Ratio	Lower	Upper
84	100		
49	100.8	120.2	180.4#
51	60.0	37.4	56.0#
86	50.3	52.4	78.6#



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

Tgt Ion:	43	Resp:	476
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	39.8	8.6	13.0#
44	163.6	6.2	9.4#

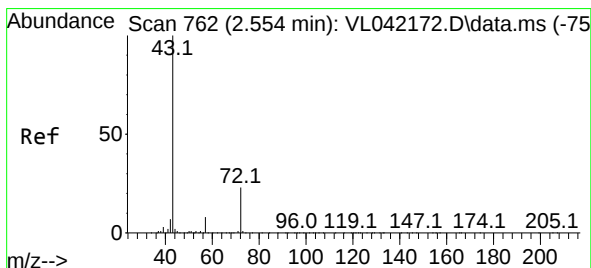
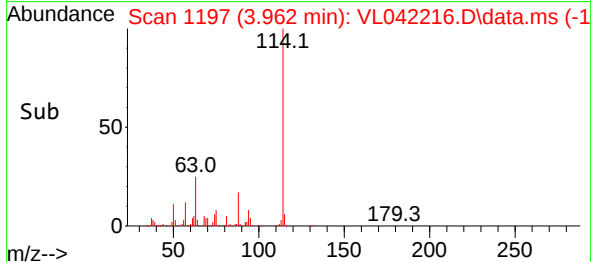
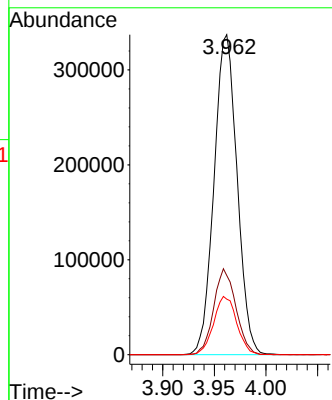
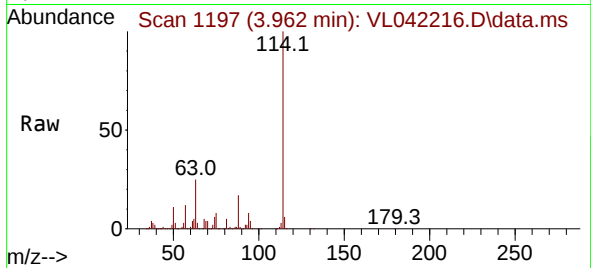




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

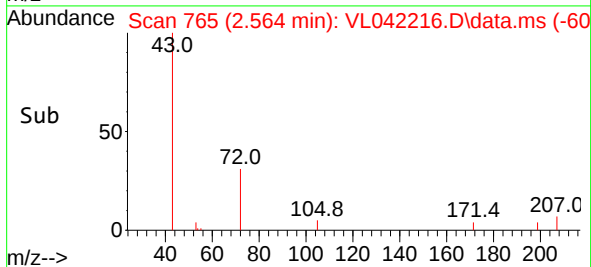
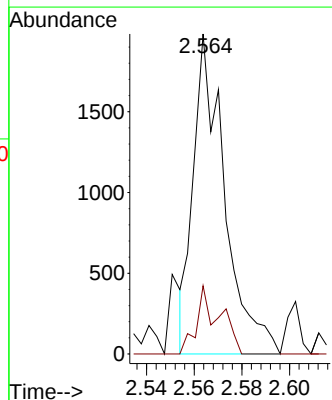
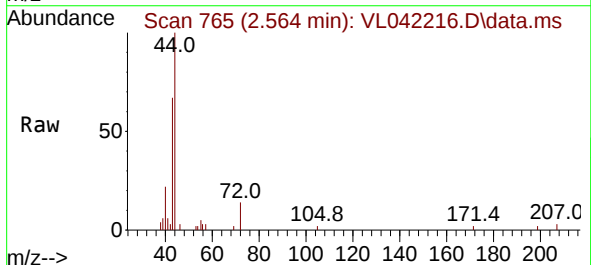
Instrument :
MSVOA_L
ClientSampleId :
VL0404ABL01

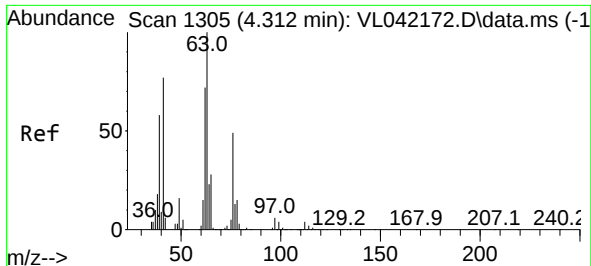
Tgt Ion:114 Resp: 523611
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.3 15.0 22.4



#34
2-Butanone
Concen: 0.047 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

Tgt Ion: 43 Resp: 1799
Ion Ratio Lower Upper
43 100
72 15.7 18.2 27.2#





#39

1,2-Dichloropropane

Concen: 7.181 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042216.D

Acq: 04 Apr 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABL01

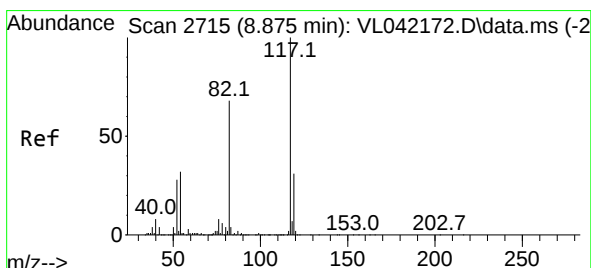
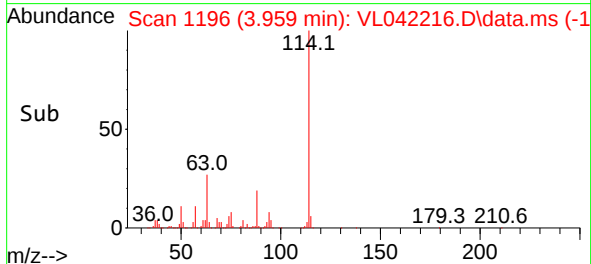
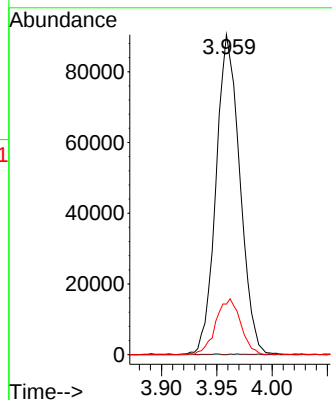
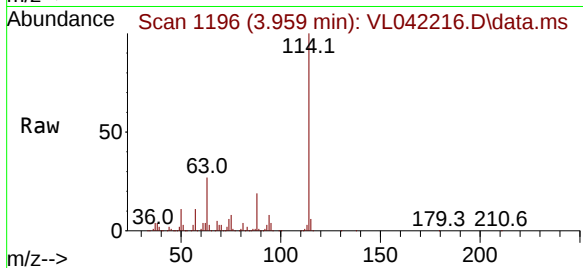
Tgt Ion: 63 Resp: 135759

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 15.8 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.010 min

Lab File: VL042216.D

Acq: 04 Apr 2025 09:41

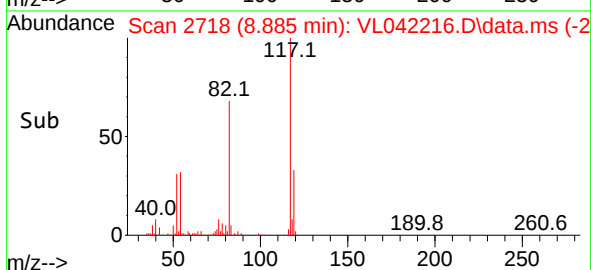
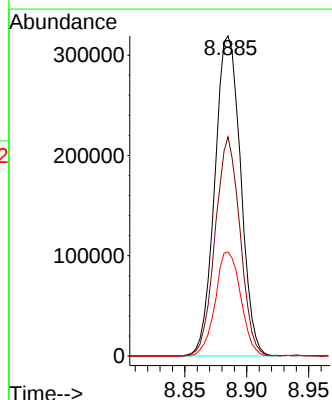
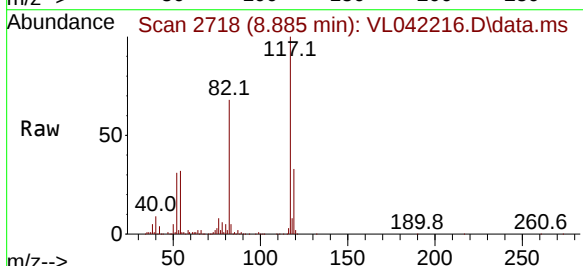
Tgt Ion: 117 Resp: 464191

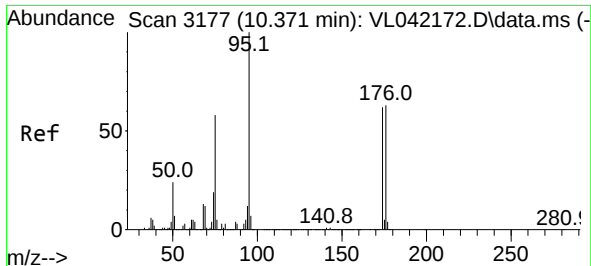
Ion Ratio Lower Upper

117 100

82 65.9 55.8 83.6

119 32.3 25.5 38.3

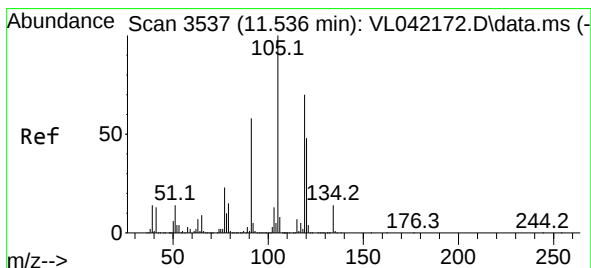
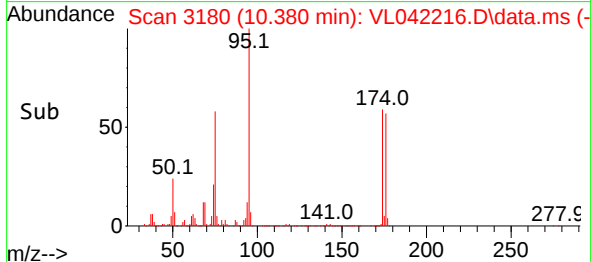
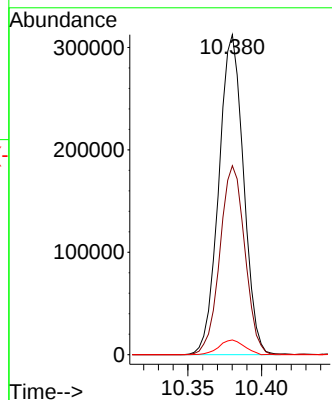
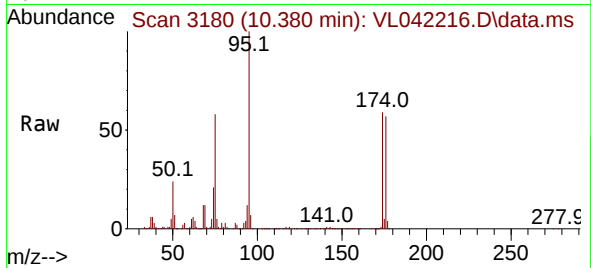




#68
1-Bromo-4-Fluorobenzene
Concen: 9.561 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

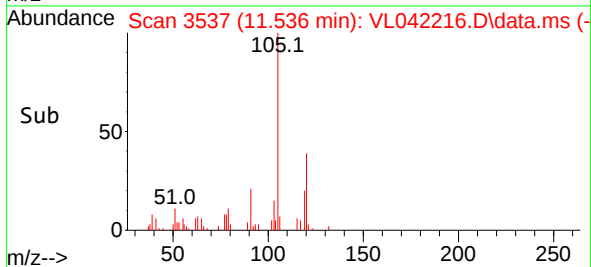
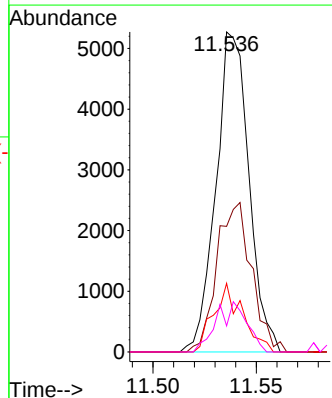
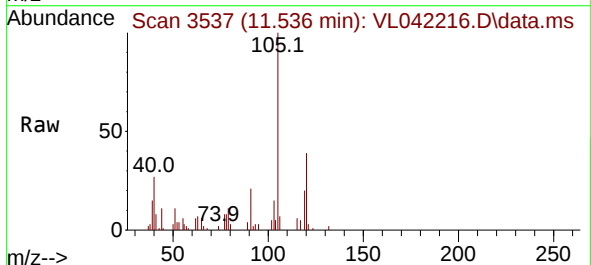
Instrument :
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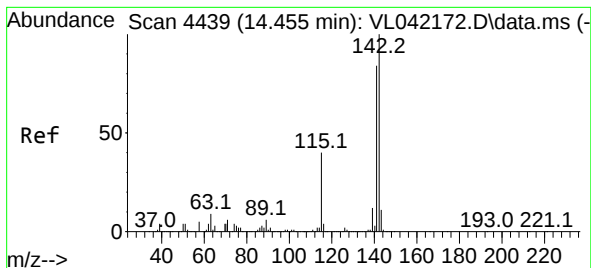
Tgt Ion: 95 Resp: 364475
Ion Ratio Lower Upper
95 100
174 59.9 50.6 76.0
175 4.8 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.071 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

Tgt Ion: 105 Resp: 5848
Ion Ratio Lower Upper
105 100
120 39.2 38.6 58.0
91 21.4 46.2 69.2#
77 8.2 18.6 27.8#





#80

Naphthalene, 2-methyl-

Concen: 0.037 ppbv

RT: 14.465 min Scan# 44

Delta R.T. 0.010 min

Lab File: VL042216.D

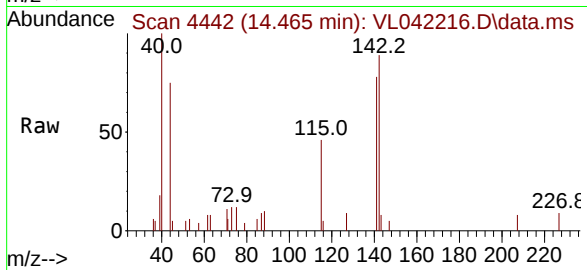
Acq: 04 Apr 2025 09:41

Instrument :

MSVOA_L

ClientSampleId :

VL0404ABL01



Tgt Ion:142 Resp: 1649

Ion Ratio Lower Upper

142 100

141 95.0 66.3 99.5

115 32.1 31.6 47.4

