

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041057.D
 Acq On : 9 Feb 2024 14:25
 Operator : SY/MD
 Sample : P1420-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Quant Time: Feb 12 00:46:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Feb 12 00:40:04 2024
 Response via : Initial Calibration

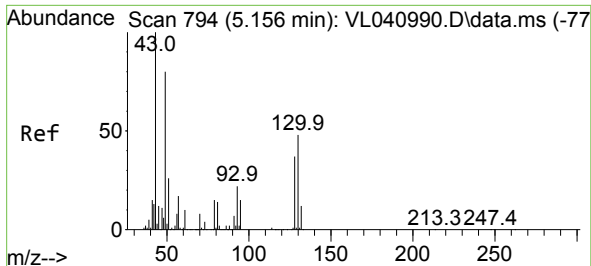
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.185	49	1271458	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3460679	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3104568	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2302669	9.820	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	11586	0.041	ppbv	94
3) Chlorodifluoromethane	2.665	51	11717	0.055	ppbv	94
4) Chloromethane	2.806	50	6984	0.087	ppbv #	86
9) Propene	2.700	41	47093	0.671	ppbv #	63
13) Ethanol	3.230	45	1015207	60.727	ppbv	94
15) Acetone	3.465	43	232934	1.433	ppbv	100
16) 1,3-Butadiene	2.964	39	1639	0.021	ppbv #	77
19) Isopropyl Alcohol	3.574	45	381769	4.056	ppbv	99
20) Methylene Chloride	3.928	84	355765	5.686	ppbv	93
25) Ethyl Acetate	5.205	43	249165	0.845	ppbv #	77
26) Hexane	5.208	57	352242	2.803	ppbv #	39
29) Chloroform	5.269	83	10132	0.045	ppbv	94
34) 2-Butanone	4.787	43	3578	0.022	ppbv #	1
36) Benzene	6.369	78	9365	0.033	ppbv #	88
39) 1,2-Dichloropropane	6.645	63	820268	7.285	ppbv #	24

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

Quant Time: Feb 12 00:46:54 2024
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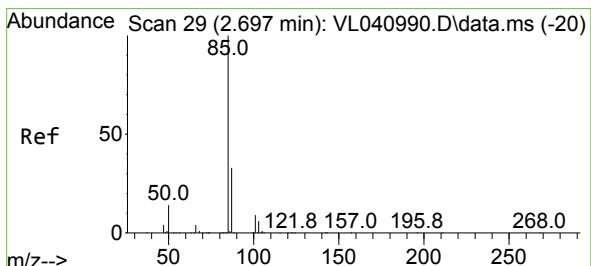
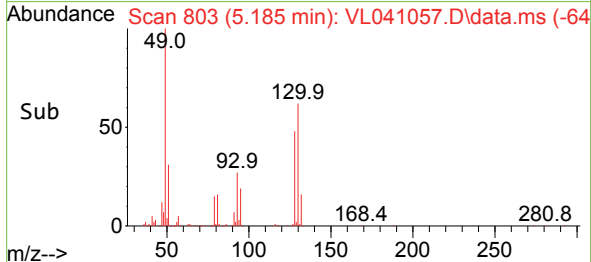
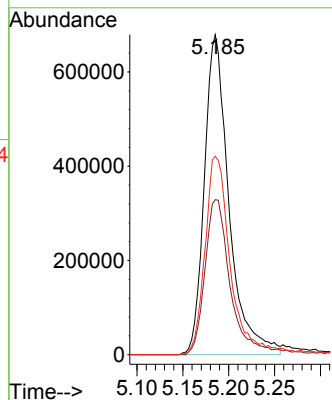
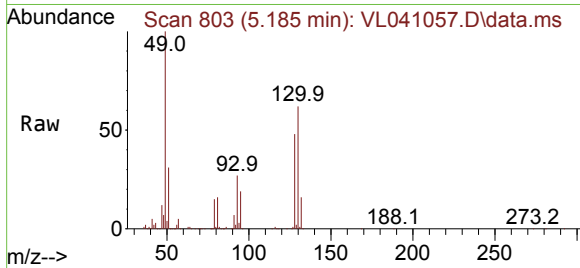




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL041057.D
 Acq: 9 Feb 2024 14:25

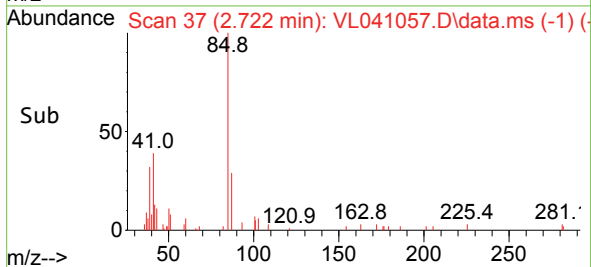
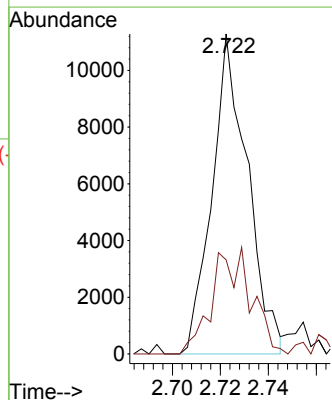
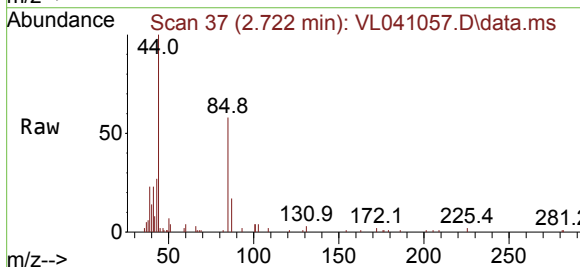
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

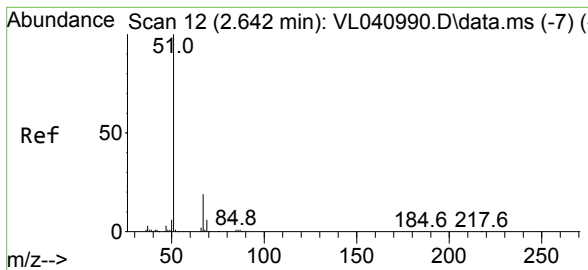
Tgt Ion: 49 Resp: 1271458
 Ion Ratio Lower Upper
 49 100
 128 50.8 23.9 71.7
 130 65.7 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.041 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: VL041057.D
 Acq: 9 Feb 2024 14:25

Tgt Ion: 85 Resp: 11586
 Ion Ratio Lower Upper
 85 100
 87 29.4 26.3 39.5

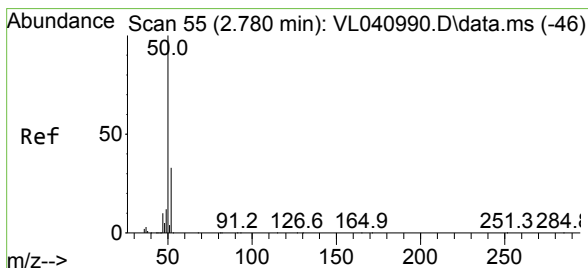
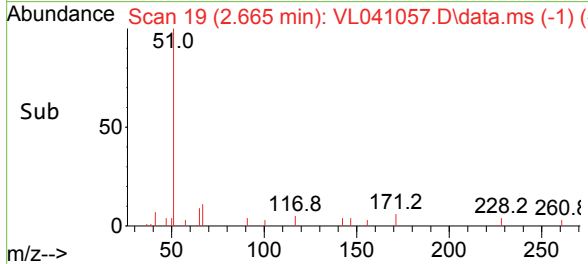
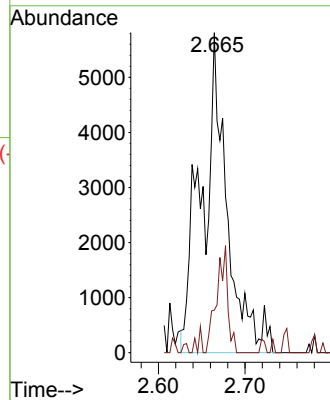
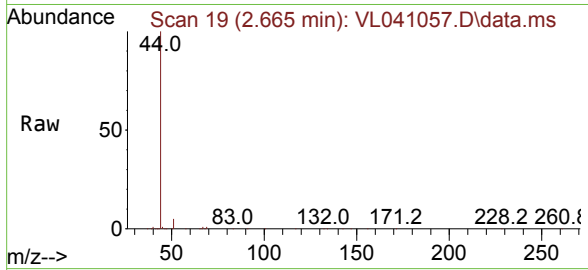




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.665 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

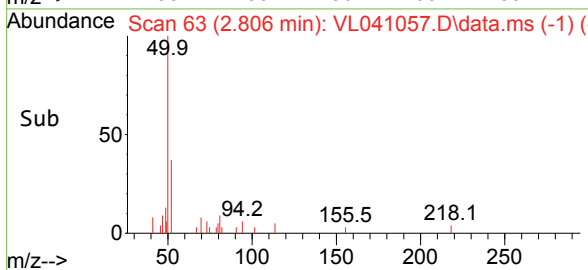
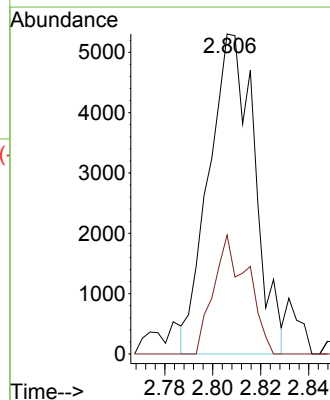
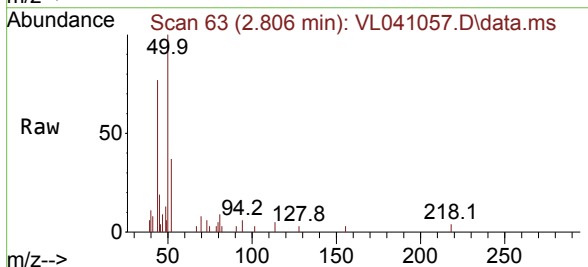
Instrument :
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ClientSampleId :
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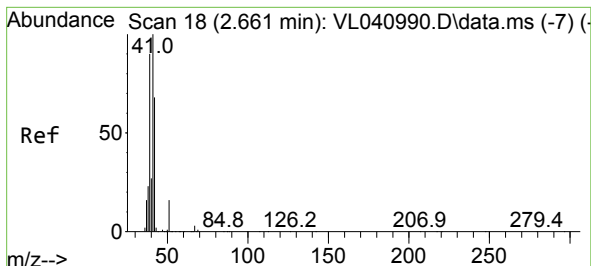
Tgt Ion: 51 Resp: 11717
Ion Ratio Lower Upper
51 100
67 15.6 14.8 22.2



#4
Chloromethane
Concen: 0.087 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.010 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

Tgt Ion: 50 Resp: 6984
Ion Ratio Lower Upper
50 100
52 40.5 26.2 39.4#





#9

Propene

Concen: 0.671 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.022 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

Instrument :

MSVOA_L

ClientSampleId :

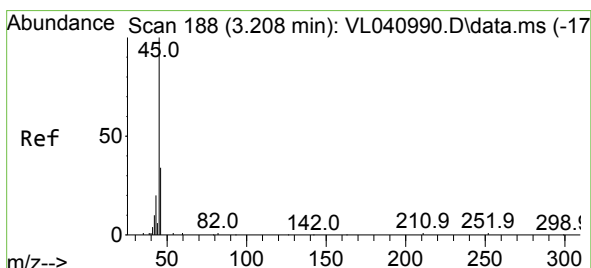
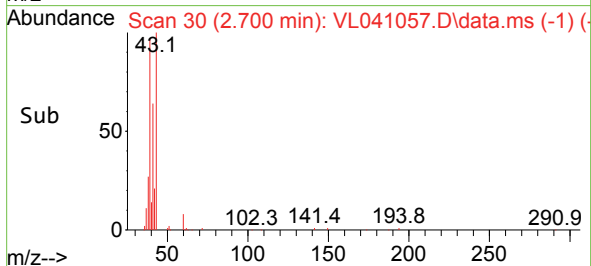
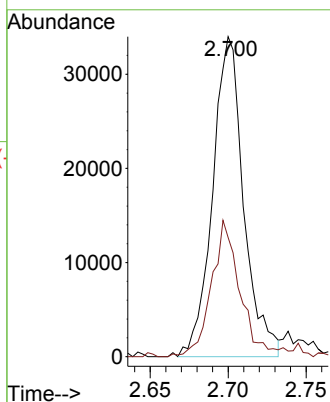
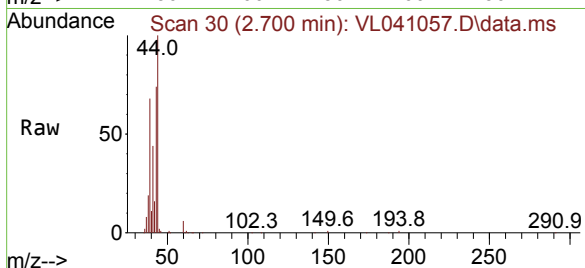
IA3DL

Tgt Ion: 41 Resp: 47093

Ion Ratio Lower Upper

41 100

42 42.2 59.0 88.4#



#13

Ethanol

Concen: 60.727 ppbv

RT: 3.230 min Scan# 195

Delta R.T. 0.006 min

Lab File: VL041057.D

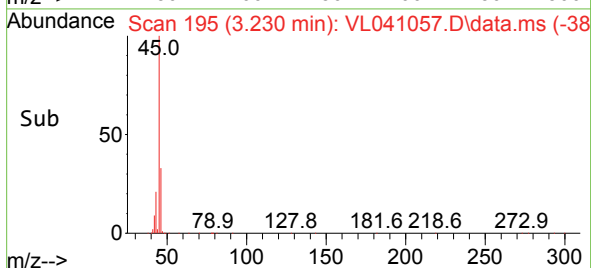
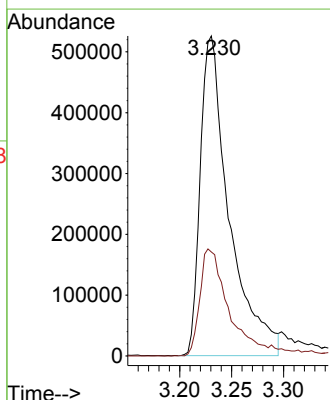
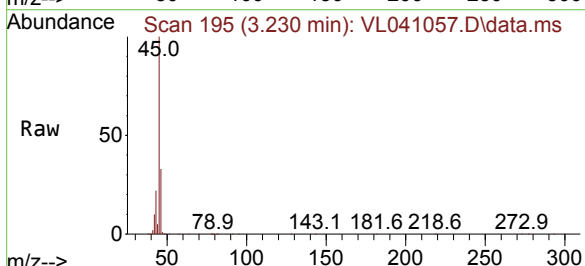
Acq: 9 Feb 2024 14:25

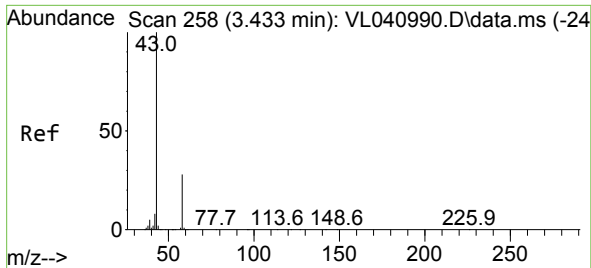
Tgt Ion: 45 Resp: 1015207

Ion Ratio Lower Upper

45 100

46 37.1 16.2 64.8

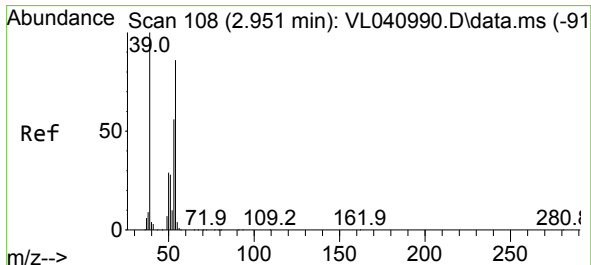
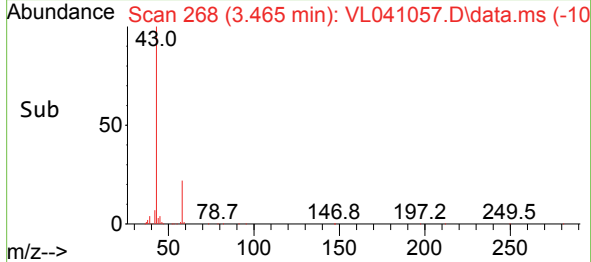
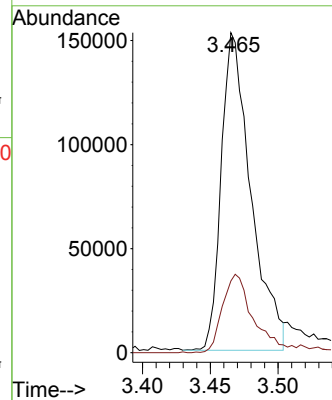
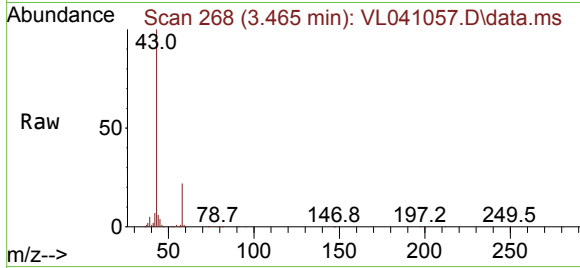




#15
Acetone
Concen: 1.433 ppbv
RT: 3.465 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

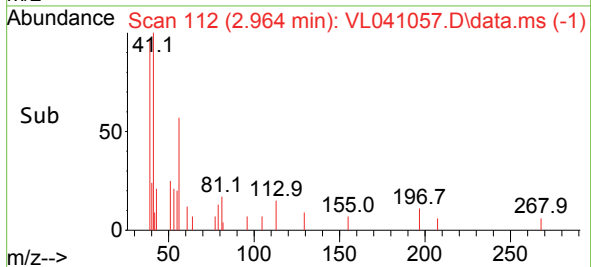
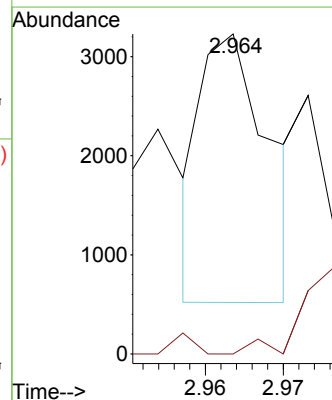
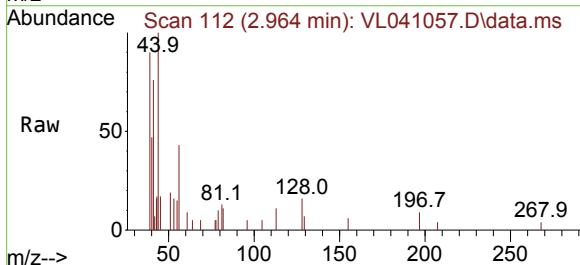
Instrument :
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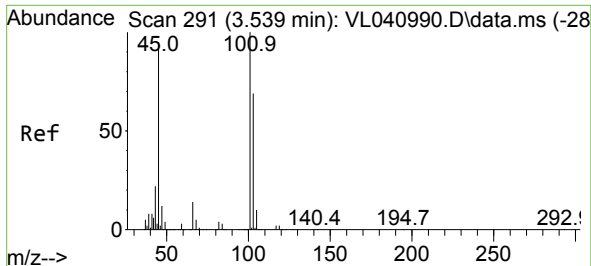
Tgt Ion: 43 Resp: 232934
Ion Ratio Lower Upper
43 100
58 27.6 22.2 33.2



#16
1,3-Butadiene
Concen: 0.021 ppbv
RT: 2.964 min Scan# 112
Delta R.T. -0.006 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

Tgt Ion: 39 Resp: 1639
Ion Ratio Lower Upper
39 100
54 98.5 62.7 94.1#





#19

Isopropyl Alcohol

Concen: 4.056 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.013 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

Instrument :

MSVOA_L

ClientSampleId :

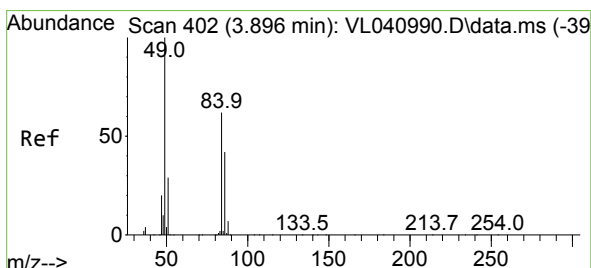
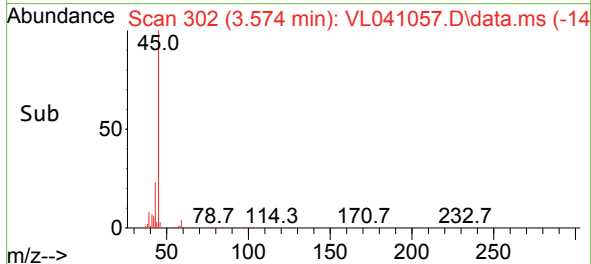
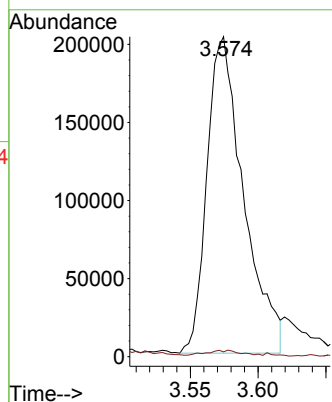
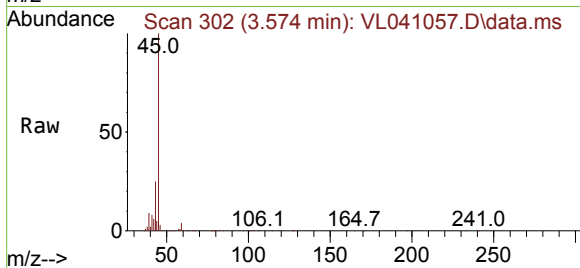
IA3DL

Tgt Ion: 45 Resp: 381769

Ion Ratio Lower Upper

45 100

58 3.0 2.2 3.4



#20

Methylene Chloride

Concen: 5.686 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.010 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

Tgt Ion: 84 Resp: 355765

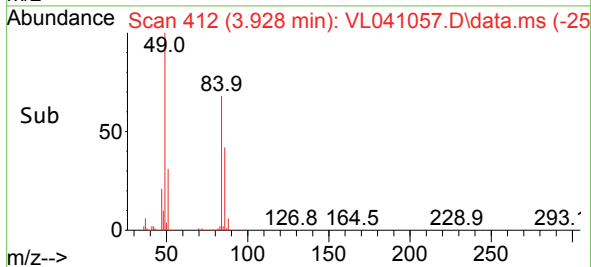
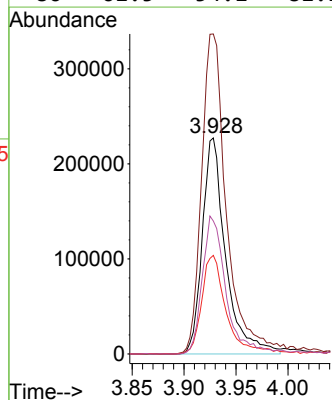
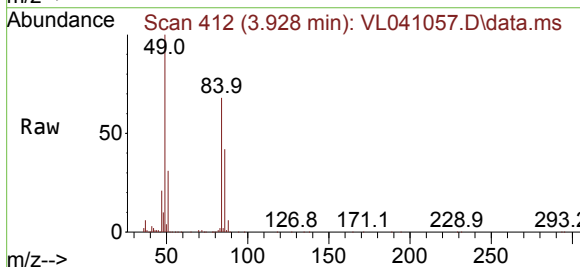
Ion Ratio Lower Upper

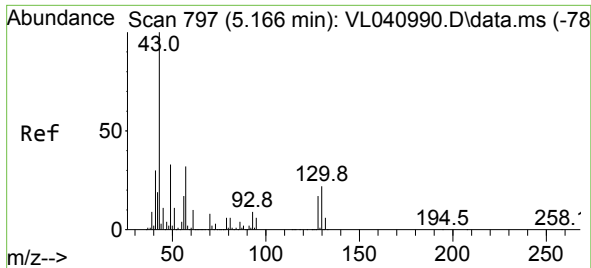
84 100

49 147.7 128.1 192.1

51 45.4 36.5 54.7

86 61.5 54.1 81.1

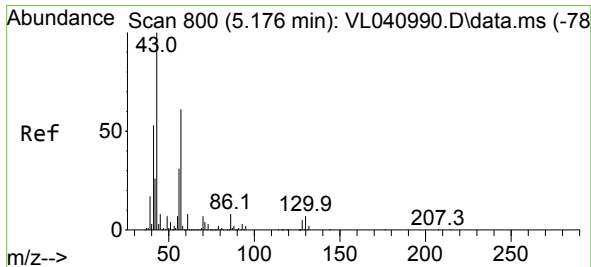
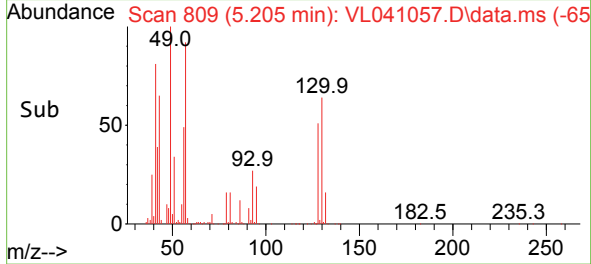
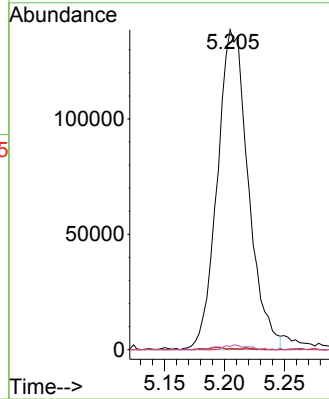
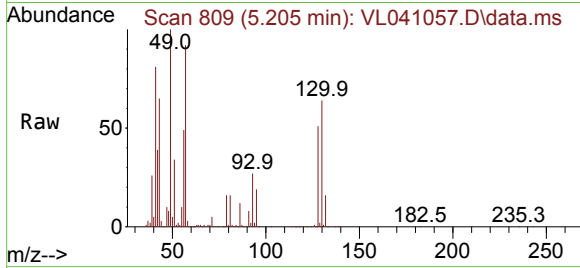




#25
Ethyl Acetate
Concen: 0.845 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

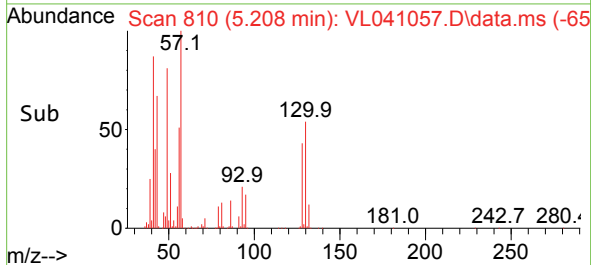
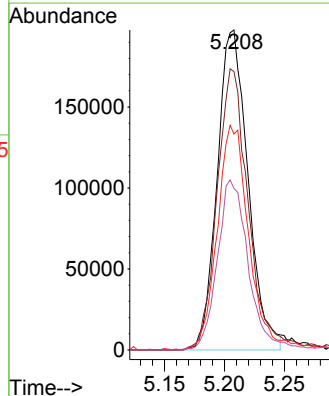
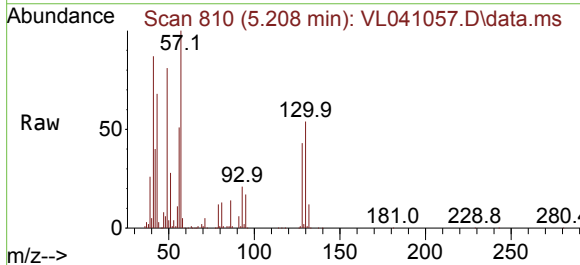
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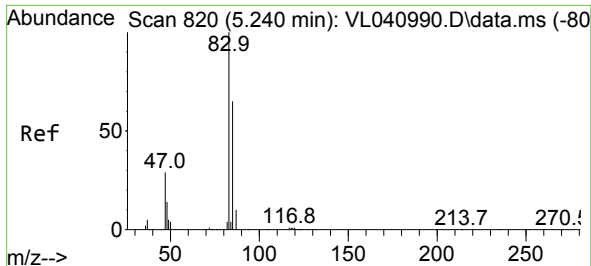
Tgt Ion: 43 Resp: 249165
Ion Ratio Lower Upper
43 100
45 0.5 8.2 12.4#
61 0.4 7.9 11.9#
70 1.4 5.4 8.2#



#26
Hexane
Concen: 2.803 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

Tgt Ion: 57 Resp: 352242
Ion Ratio Lower Upper
57 100
41 91.0 74.4 111.6
43 73.5 190.6 285.8#
56 53.6 43.0 64.4





#29

Chloroform

Concen: 0.045 ppbv

RT: 5.269 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

Instrument :

MSVOA_L

ClientSampleId :

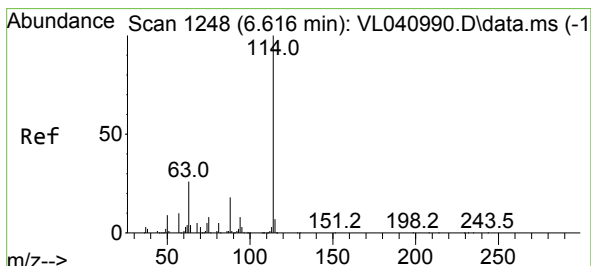
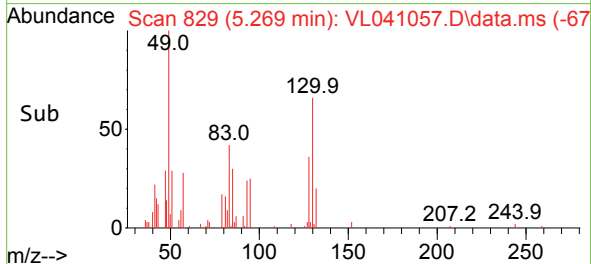
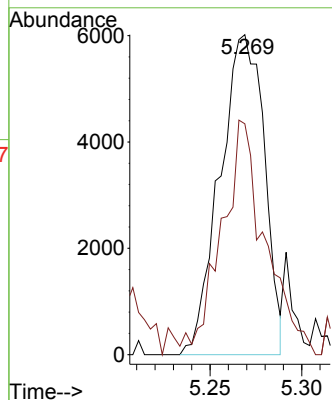
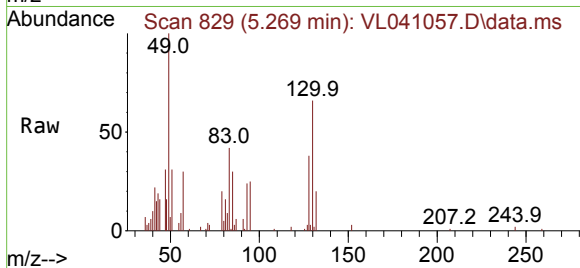
IA3DL

Tgt Ion: 83 Resp: 10132

Ion Ratio Lower Upper

83 100

85 69.5 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. 0.003 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

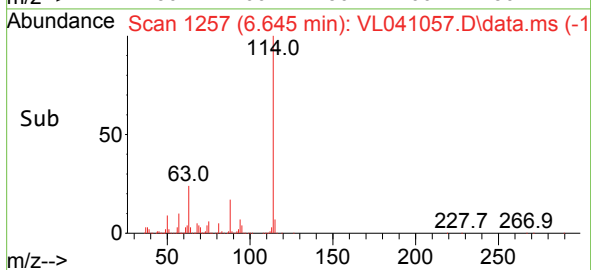
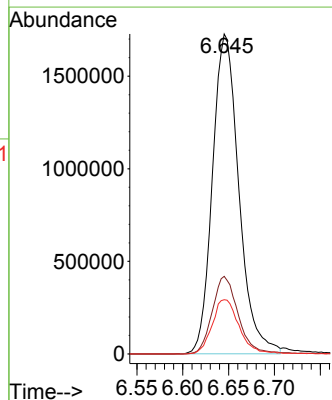
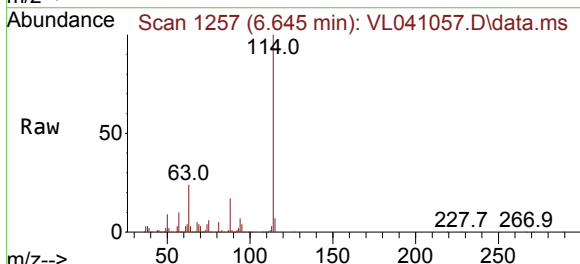
Tgt Ion:114 Resp: 3460679

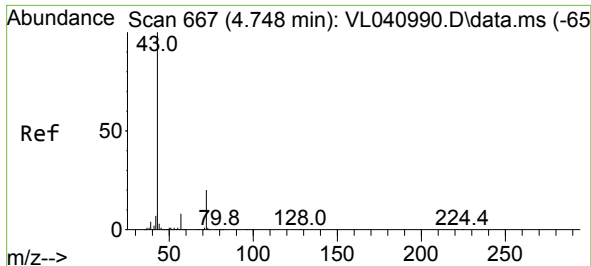
Ion Ratio Lower Upper

114 100

63 24.2 20.8 31.2

88 17.5 14.3 21.5

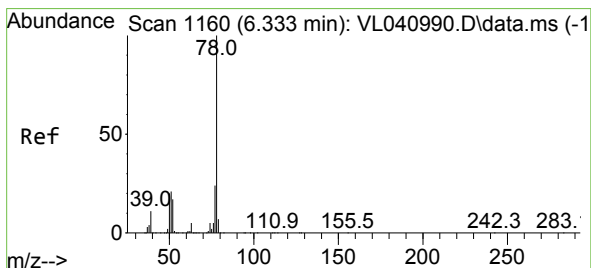
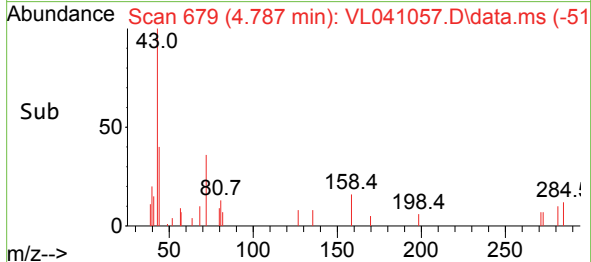
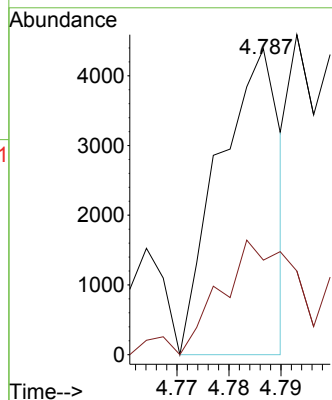
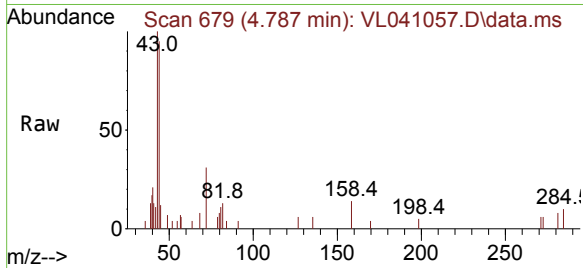




#34
2-Butanone
Concen: 0.022 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

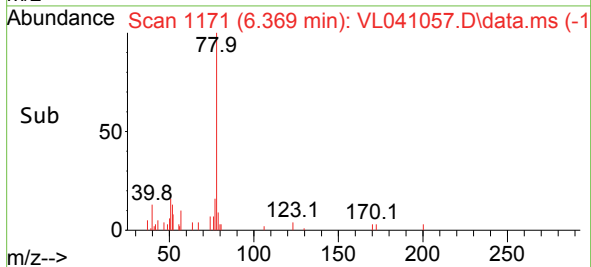
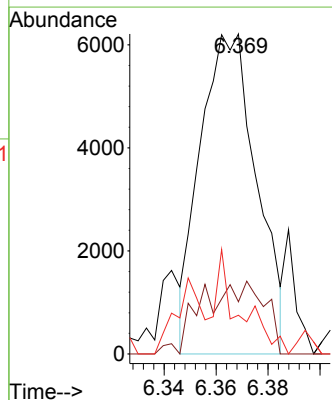
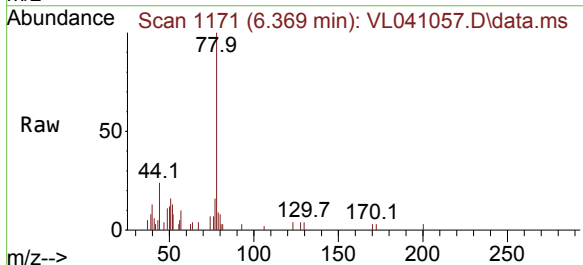
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

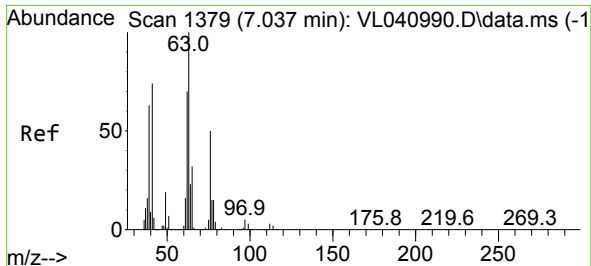
Tgt Ion: 43 Resp: 3578
Ion Ratio Lower Upper
43 100
72 72.0 17.5 26.3#



#36
Benzene
Concen: 0.033 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.010 min
Lab File: VL041057.D
Acq: 9 Feb 2024 14:25

Tgt Ion: 78 Resp: 9365
Ion Ratio Lower Upper
78 100
77 20.6 19.0 28.4
50 28.6 15.8 23.6#





#39

1,2-Dichloropropane

Concen: 7.285 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

Instrument :

MSVOA_L

ClientSampleId :

IA3DL

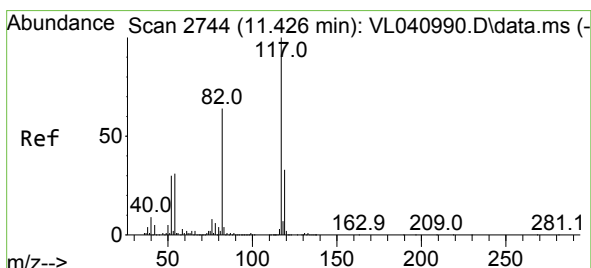
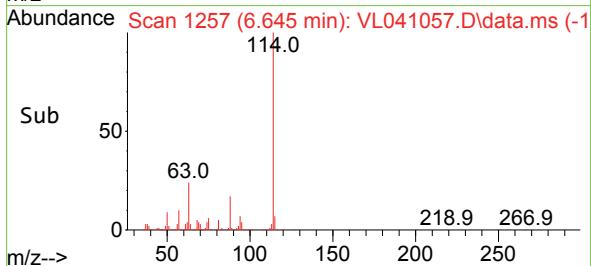
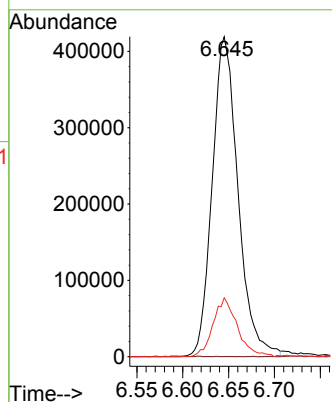
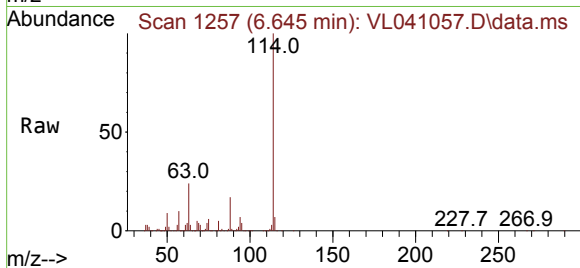
Tgt Ion: 63 Resp: 820268

Ion Ratio Lower Upper

63 100

41 0.1 59.6 89.4#

62 18.4 55.6 83.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. 0.006 min

Lab File: VL041057.D

Acq: 9 Feb 2024 14:25

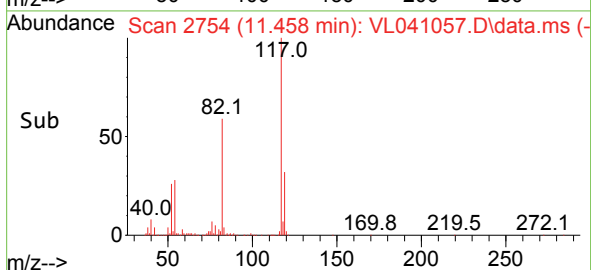
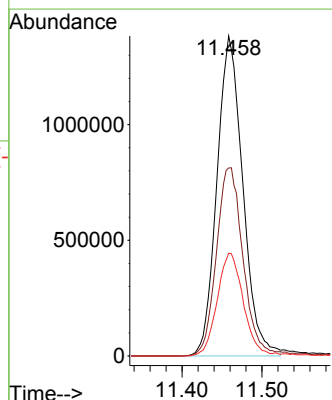
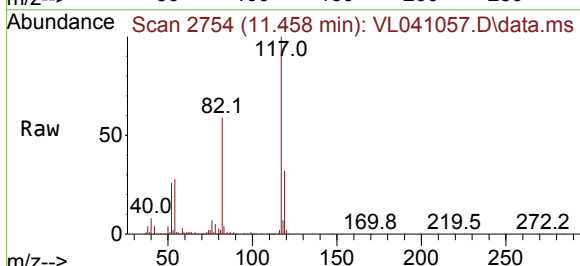
Tgt Ion: 117 Resp: 3104568

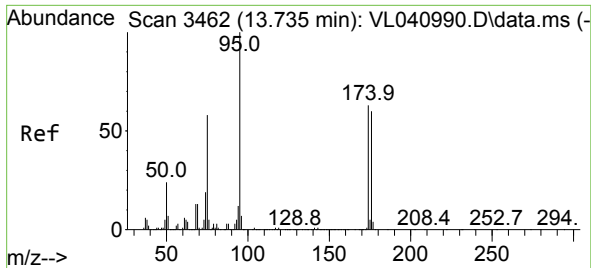
Ion Ratio Lower Upper

117 100

82 62.0 51.7 77.5

119 33.1 23.8 35.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.820 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL041057.D
 Acq: 9 Feb 2024 14:25

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Tgt Ion: 95 Resp: 2302669

Ion	Ratio	Lower	Upper
95	100		
174	65.7	49.1	73.7
175	4.9	3.7	5.5

