

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
 Data File : VL040297.D
 Acq On : 16 Mar 2023 15:58
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Mar 17 04:15:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

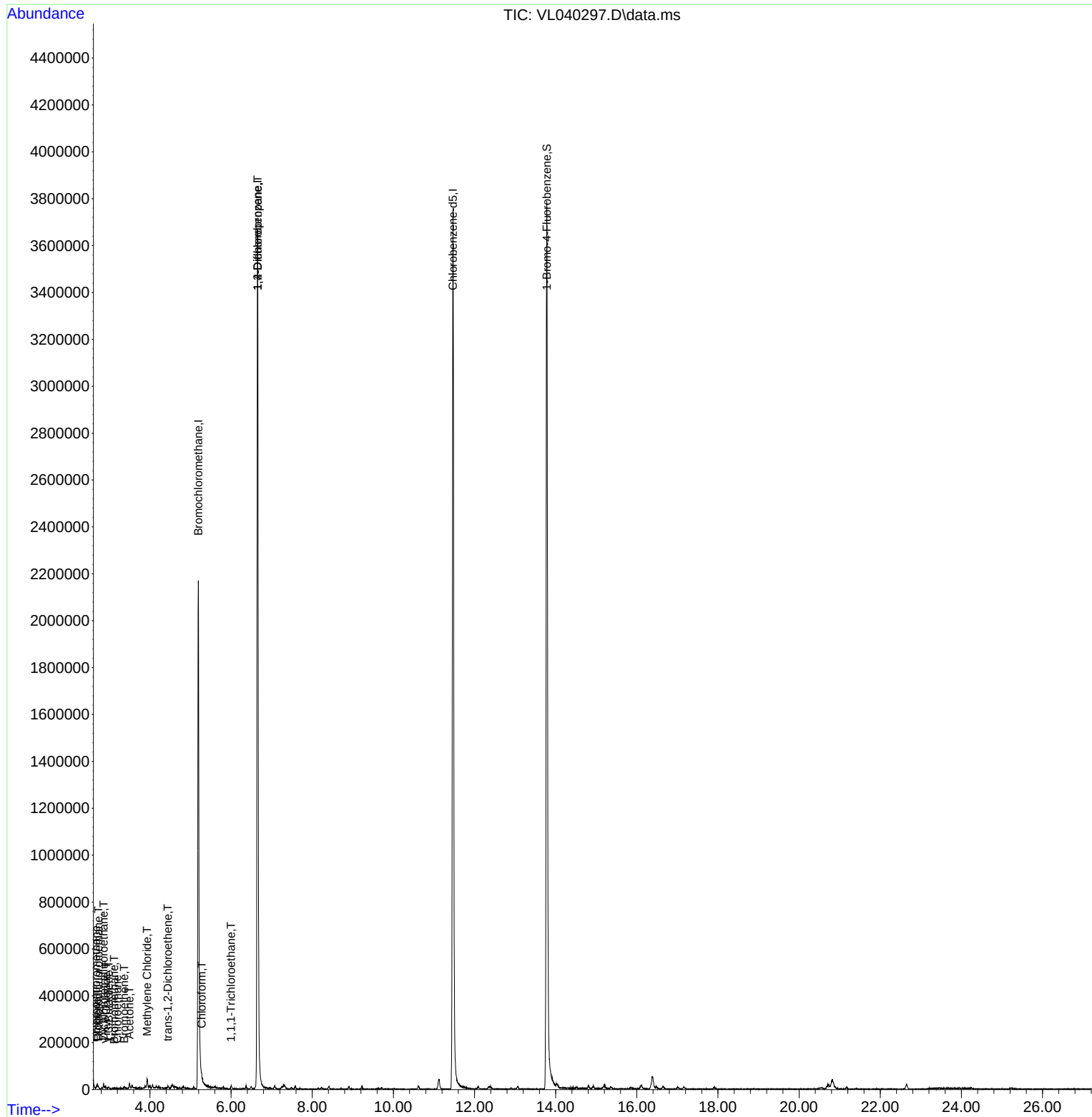
Internal Standards						
1) Bromochloromethane	5.192	49	1030947	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2832247	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2458546	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1958602	9.513	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	7146	0.035	ppbv	91
3) Chlorodifluoromethane	2.674	51	6047	0.047	ppbv	95
5) Vinyl Chloride	2.922	62	3026	0.047	ppbv #	88
6) Bromomethane	3.115	94	877	0.039	ppbv #	75
7) Chloroethane	3.195	64	917	0.037	ppbv #	43
8) Dichlorotetrafluoroethane	2.861	85	7490	0.043	ppbv	98
9) Propene	2.693	41	3406	0.069	ppbv #	13
14) Bromoethene	3.365	108	1741	0.034	ppbv #	50
15) Acetone	3.494	43	20147	0.161	ppbv #	84
16) 1,3-Butadiene	2.983	39	3017	0.053	ppbv	94
20) Methylene Chloride	3.928	84	7547	0.143	ppbv #	78
22) trans-1,2-Dichloroethene	4.443	96	1935	0.032	ppbv #	53
29) Chloroform	5.275	83	7188	0.042	ppbv	85
32) 1,1,1-Trichloroethane	5.999	97	6383	0.039	ppbv #	93
39) 1,2-Dichloropropane	6.652	63	700554	8.273	ppbv #	24

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

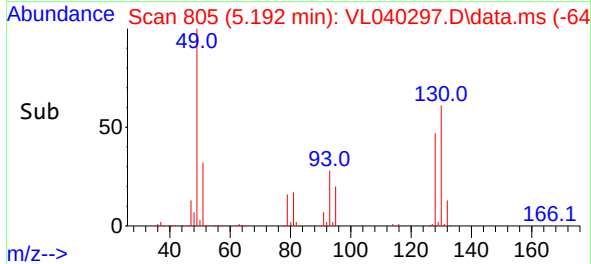
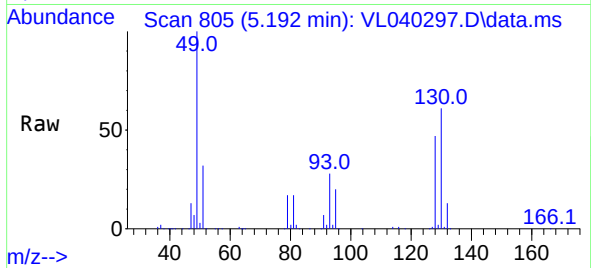
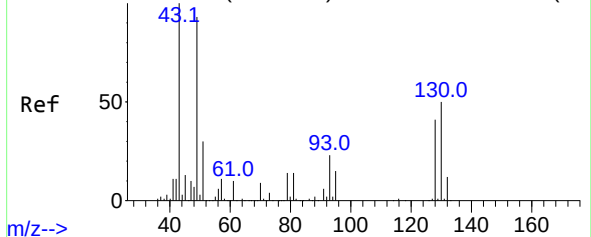
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration



Abundance Scan 804 (5.189 min): VL040279.D\data.ms (-78)



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.192 min Scan# 80

Delta R.T. 0.003 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Instrument :

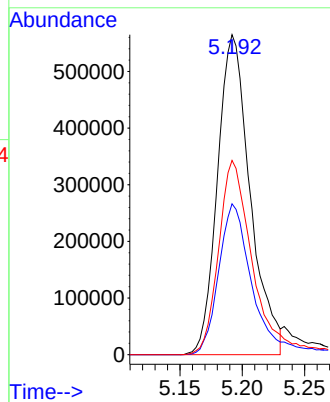
MSVOA_L

ClientSampleId :

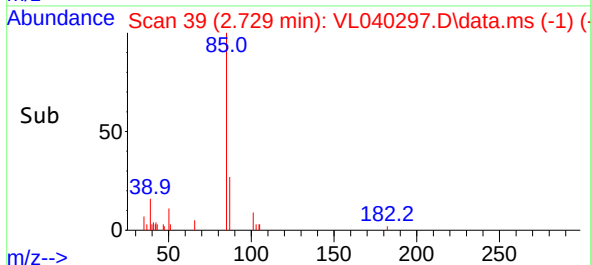
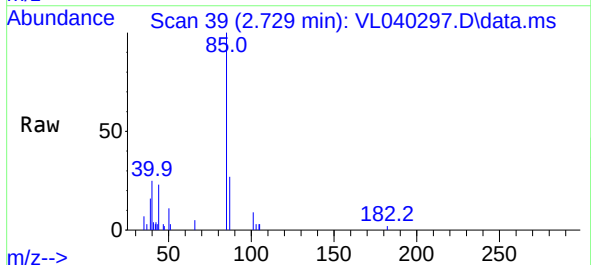
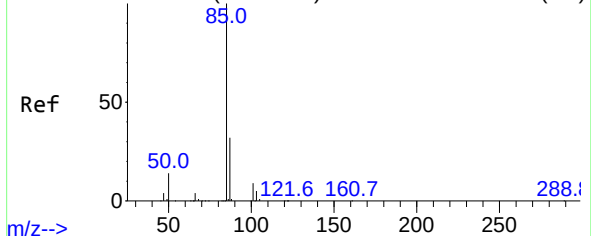
VIBLK

Tgt Ion: 49 Resp: 1030947

Ion	Ratio	Lower	Upper
49	100		
128	50.6	22.4	67.3
130	64.7	28.7	86.1



Abundance Scan 36 (2.719 min): VL040279.D\data.ms (-28)



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 2.729 min Scan# 39

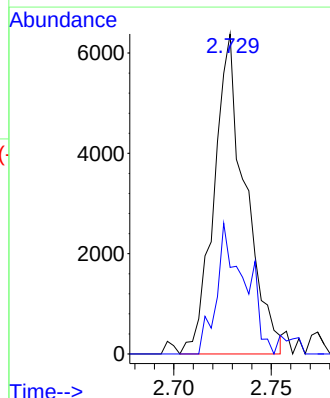
Delta R.T. 0.010 min

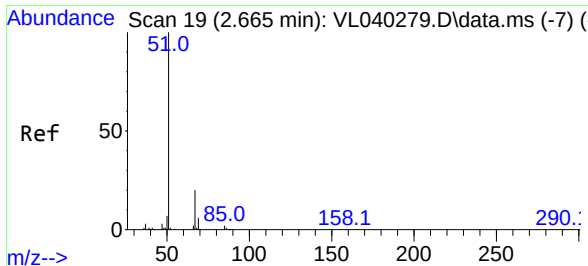
Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Tgt Ion: 85 Resp: 7146

Ion	Ratio	Lower	Upper
85	100		
87	27.0	25.5	38.3

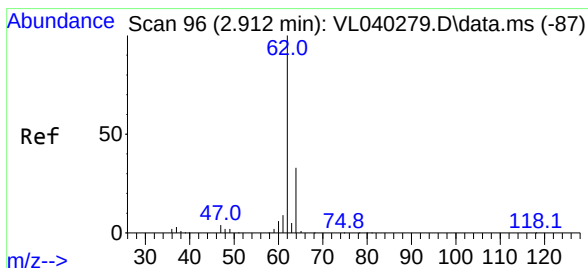
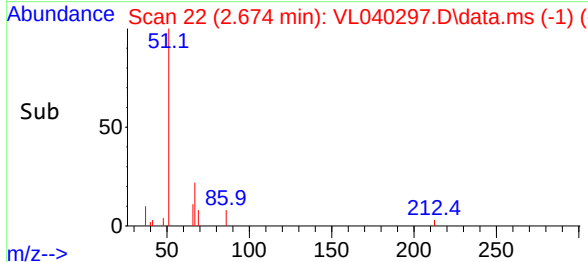
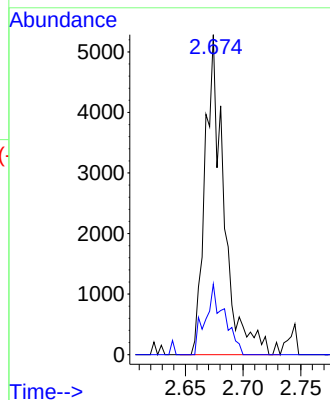
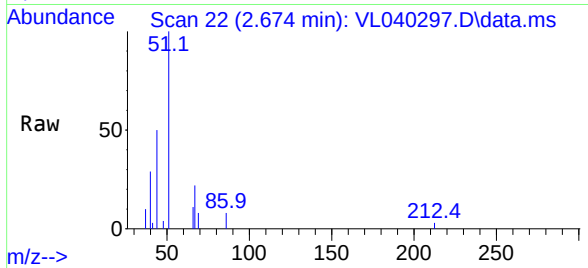




#3
Chlorodifluoromethane
Concen: 0.047 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

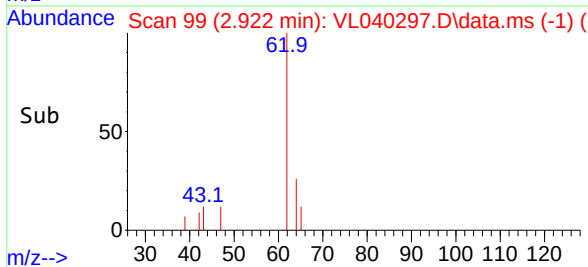
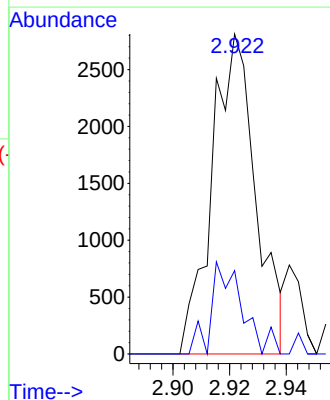
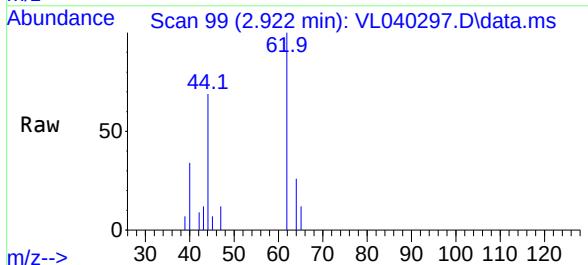
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

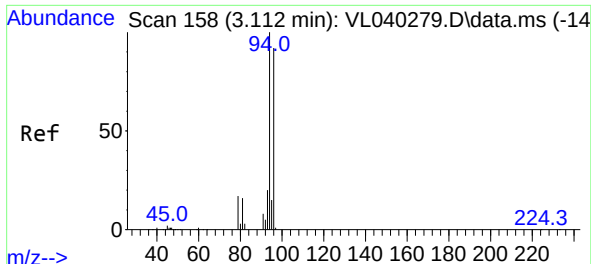
Tgt Ion: 51 Resp: 6047
Ion Ratio Lower Upper
51 100
67 22.1 16.0 24.0



#5
Vinyl Chloride
Concen: 0.047 ppbv
RT: 2.922 min Scan# 99
Delta R.T. 0.010 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

Tgt Ion: 62 Resp: 3026
Ion Ratio Lower Upper
62 100
64 26.1 26.4 39.6#

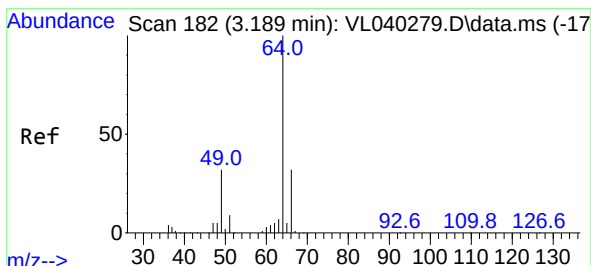
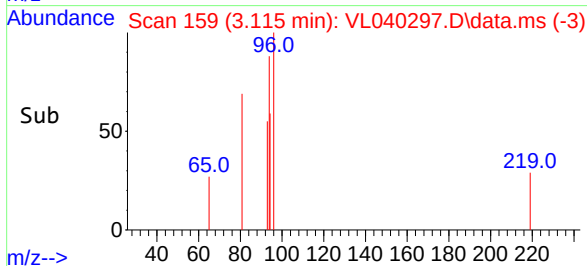
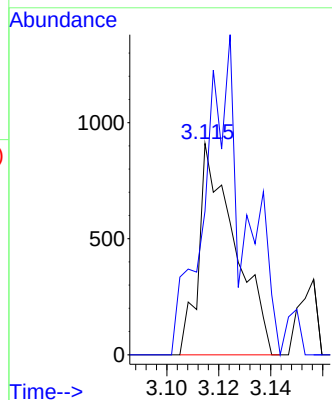
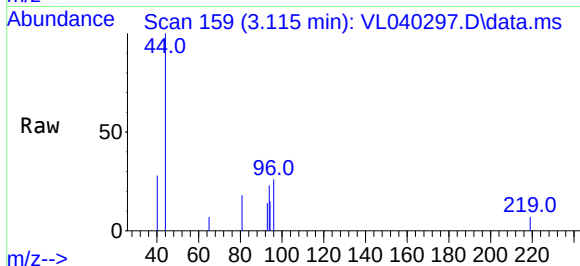




#6
Bromomethane
Concen: 0.039 ppbv
RT: 3.115 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

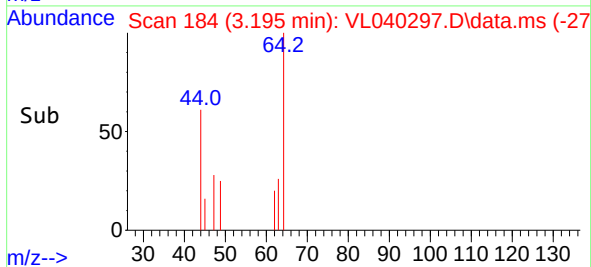
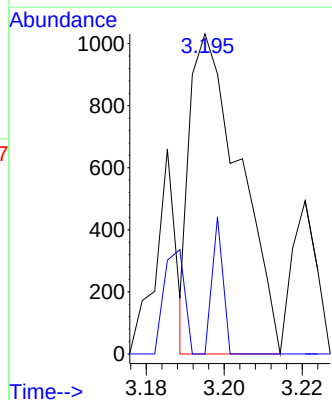
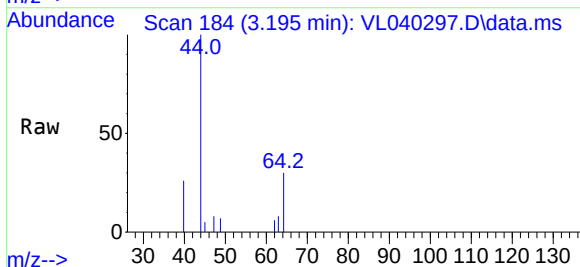
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 94 Resp: 877
Ion Ratio Lower Upper
94 100
96 68.0 73.7 110.5#

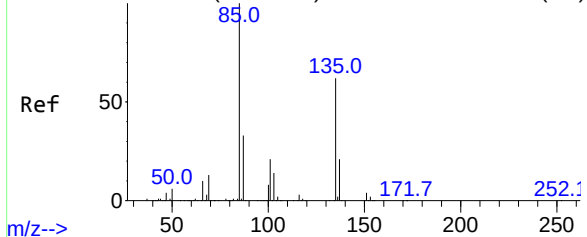


#7
Chloroethane
Concen: 0.037 ppbv
RT: 3.195 min Scan# 184
Delta R.T. 0.006 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

Tgt Ion: 64 Resp: 917
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



Abundance Scan 76 (2.848 min): VL040279.D\data.ms (-68)

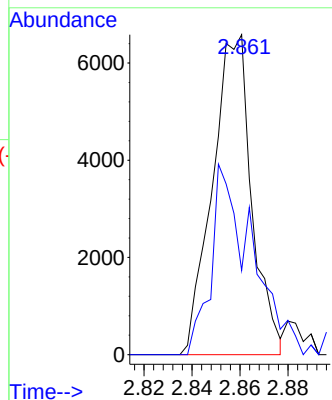
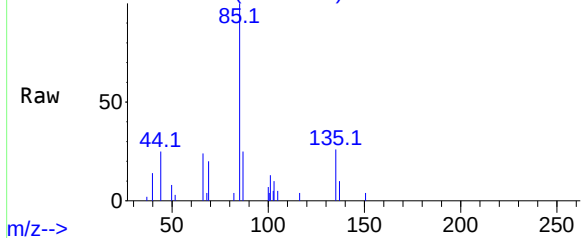


#8
Dichlorotetrafluoroethane
Concen: 0.043 ppbv
RT: 2.861 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

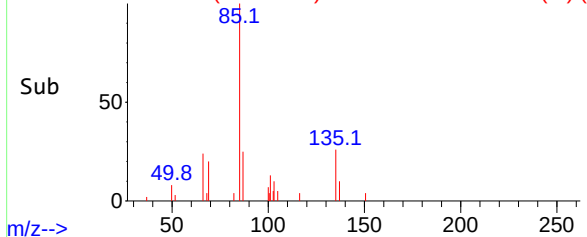
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 85 Resp: 7490
Ion Ratio Lower Upper
85 100
135 63.4 52.0 78.0

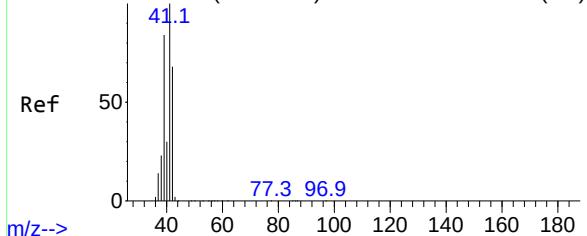
Abundance Scan 80 (2.861 min): VL040297.D\data.ms



Abundance Scan 80 (2.861 min): VL040297.D\data.ms (-1) (-



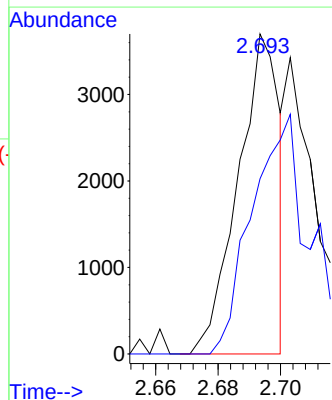
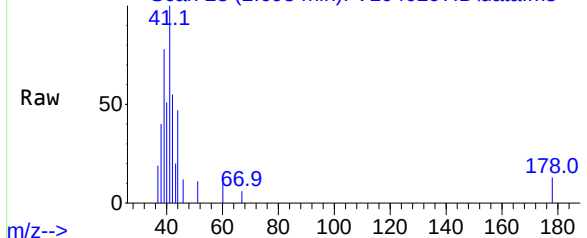
Abundance Scan 25 (2.684 min): VL040279.D\data.ms (-15)



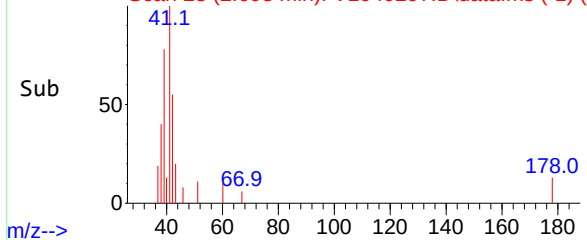
#9
Propene
Concen: 0.069 ppbv
RT: 2.693 min Scan# 28
Delta R.T. 0.009 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

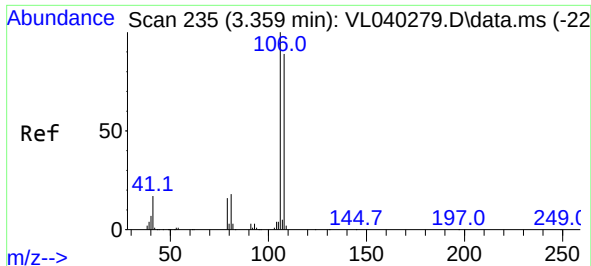
Tgt Ion: 41 Resp: 3406
Ion Ratio Lower Upper
41 100
42 0.0 59.0 88.4#

Abundance Scan 28 (2.693 min): VL040297.D\data.ms



Abundance Scan 28 (2.693 min): VL040297.D\data.ms (-1) (-





#14

Bromoethene

Concen: 0.034 ppbv

RT: 3.365 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

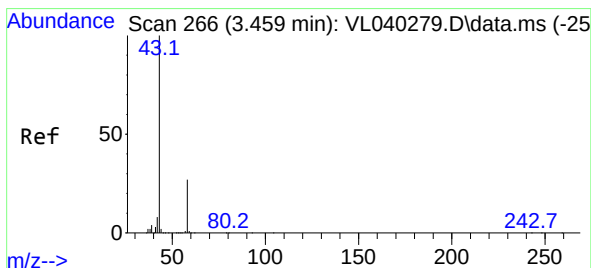
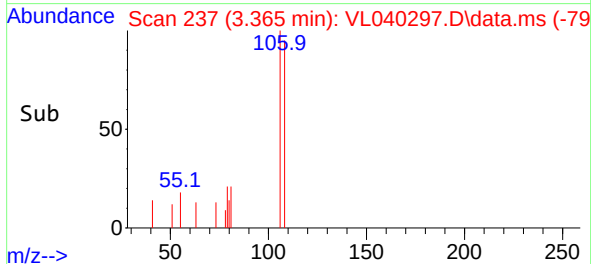
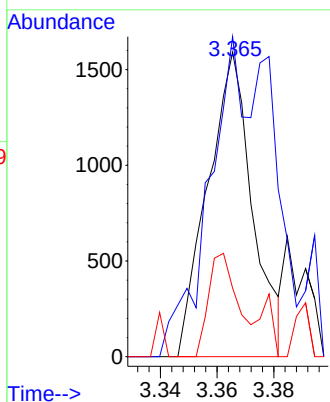
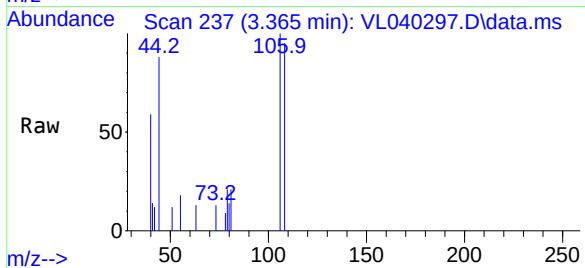
Tgt Ion:108 Resp: 1741

Ion Ratio Lower Upper

108 100

106 165.7 85.8 128.8#

79 28.0 15.8 23.6#



#15

Acetone

Concen: 0.161 ppbv

RT: 3.494 min Scan# 277

Delta R.T. 0.035 min

Lab File: VL040297.D

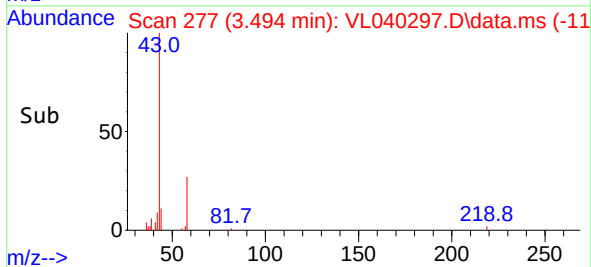
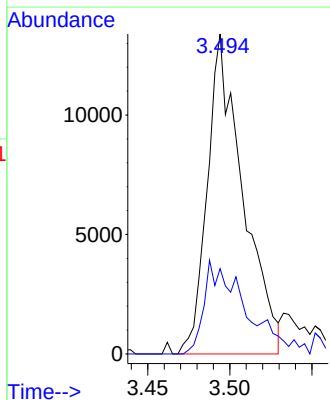
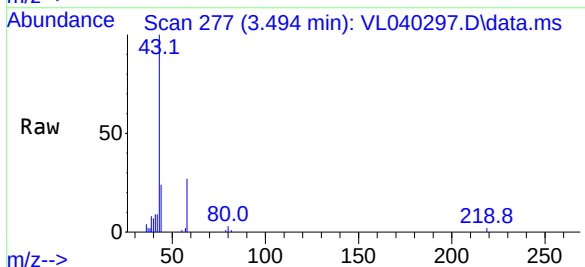
Acq: 16 Mar 2023 15:58

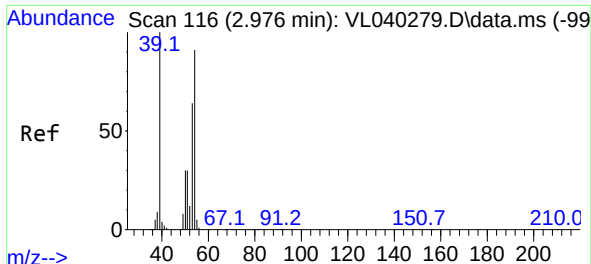
Tgt Ion: 43 Resp: 20147

Ion Ratio Lower Upper

43 100

58 35.7 21.8 32.8#





#16

1,3-Butadiene

Concen: 0.053 ppbv

RT: 2.983 min Scan# 116

Delta R.T. 0.007 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

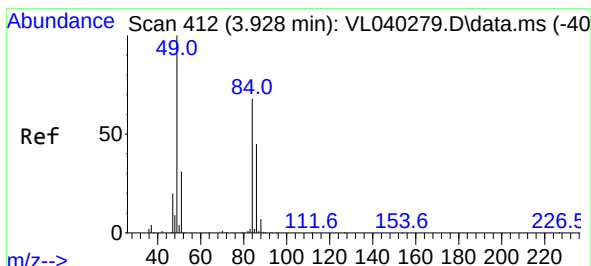
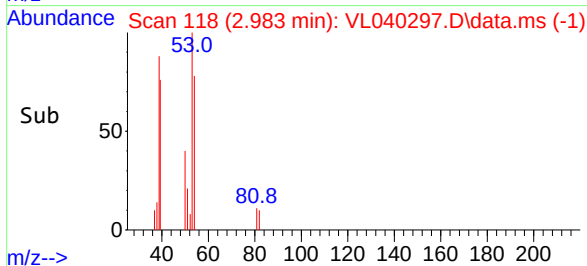
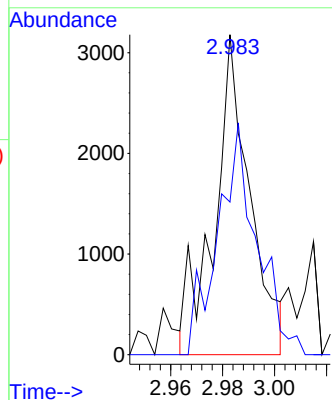
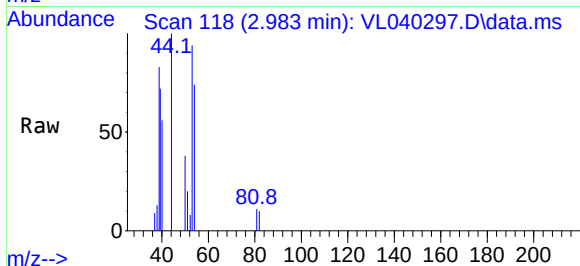
VIBLK

Tgt Ion: 39 Resp: 3017

Ion Ratio Lower Upper

39 100

54 79.7 68.4 102.6



#20

Methylene Chloride

Concen: 0.143 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.000 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Tgt Ion: 84 Resp: 7547

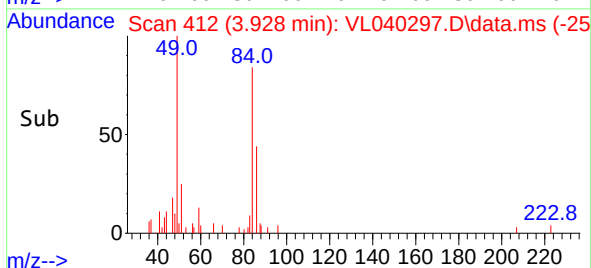
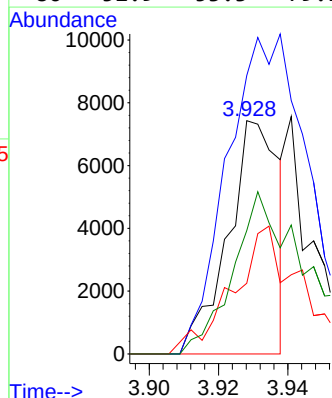
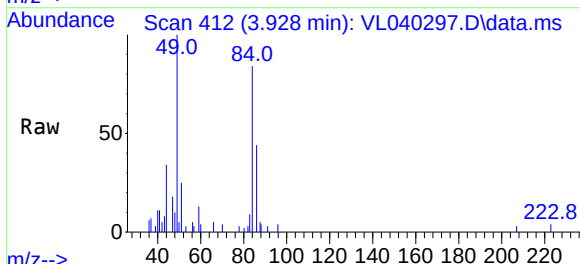
Ion Ratio Lower Upper

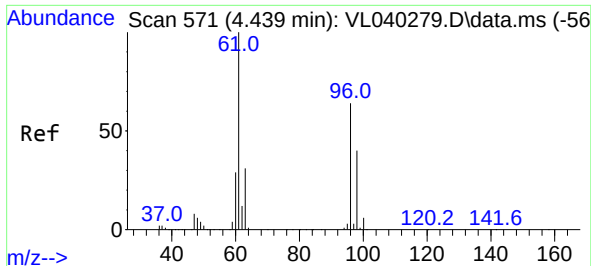
84 100

49 119.3 117.5 176.3

51 25.2 36.9 55.3#

86 52.9 53.3 79.9#

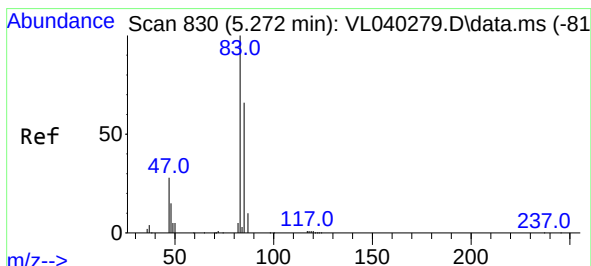
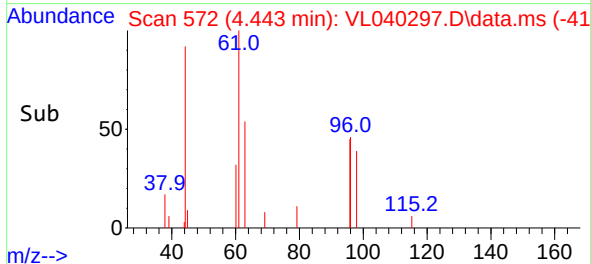
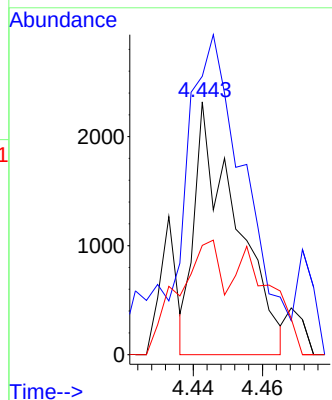
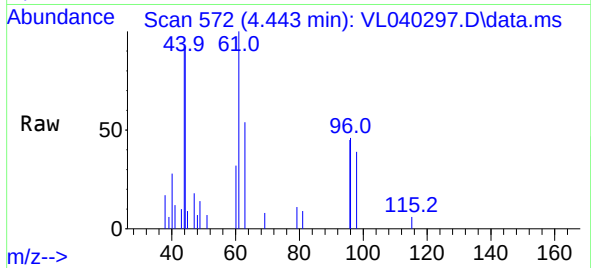




#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 4.443 min Scan# 51
Delta R.T. 0.004 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

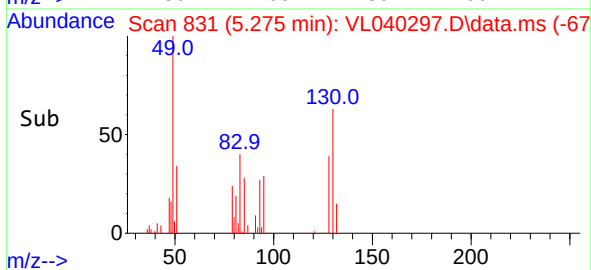
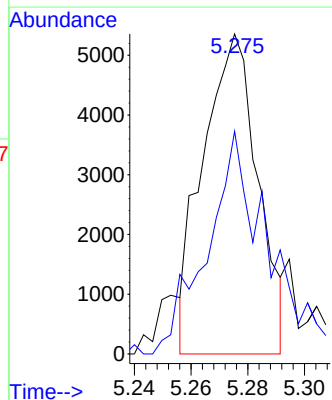
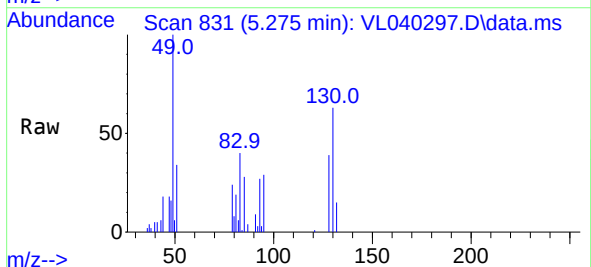
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

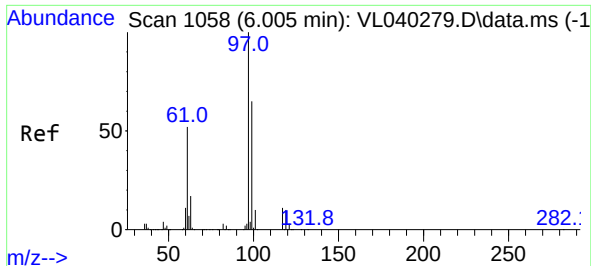
Tgt Ion: 96 Resp: 1935
Ion Ratio Lower Upper
96 100
61 98.5 125.4 188.2#
98 22.6 49.8 74.6#



#29
Chloroform
Concen: 0.042 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.003 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

Tgt Ion: 83 Resp: 7188
Ion Ratio Lower Upper
83 100
85 54.3 52.8 79.2

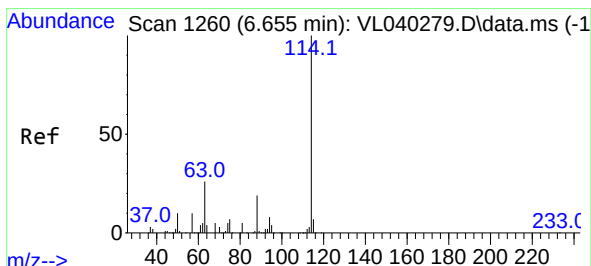
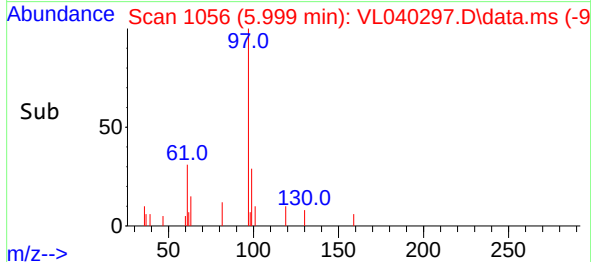
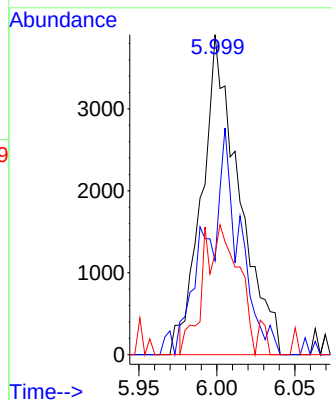
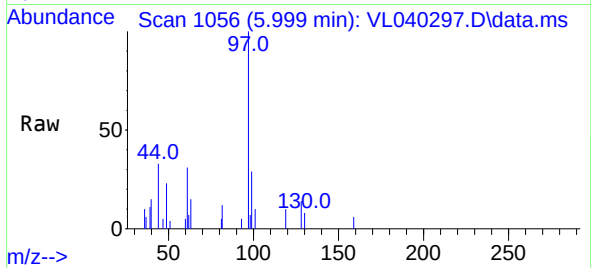




#32
1,1,1-Trichloroethane
Concen: 0.039 ppbv
RT: 5.999 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

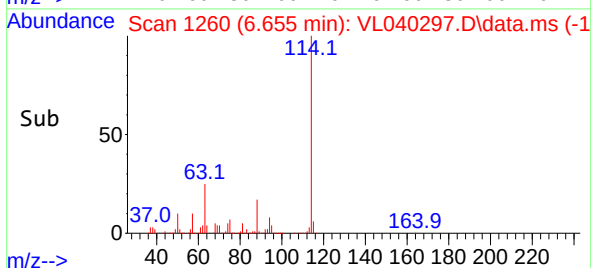
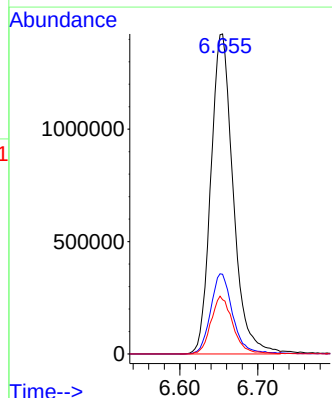
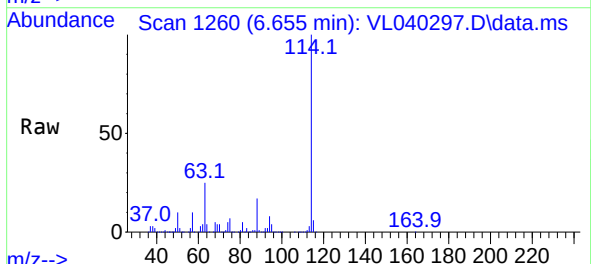
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

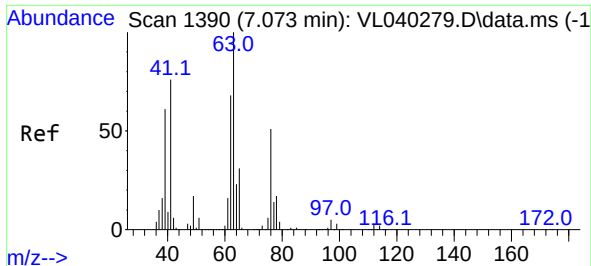
Tgt Ion: 97 Resp: 6383
Ion Ratio Lower Upper
97 100
99 65.3 52.2 78.2
61 41.1 41.4 62.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.000 min
Lab File: VL040297.D
Acq: 16 Mar 2023 15:58

Tgt Ion: 114 Resp: 2832247
Ion Ratio Lower Upper
114 100
63 25.1 21.2 31.8
88 17.9 14.5 21.7





#39

1,2-Dichloropropane

Concen: 8.273 ppbv

RT: 6.652 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

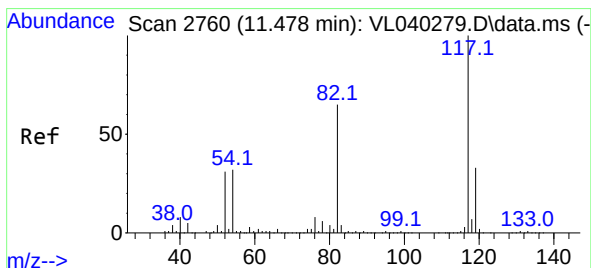
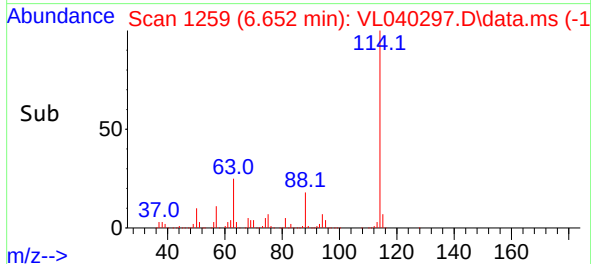
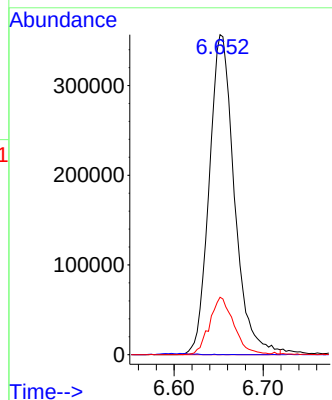
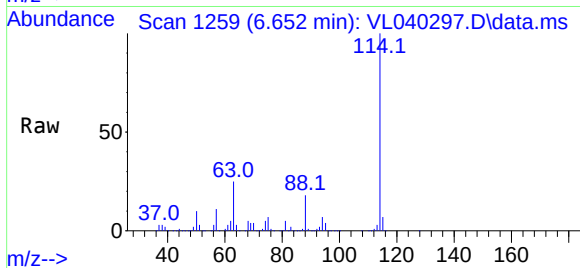
Tgt Ion: 63 Resp: 700554

Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

62 17.9 54.1 81.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2757

Delta R.T. -0.010 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

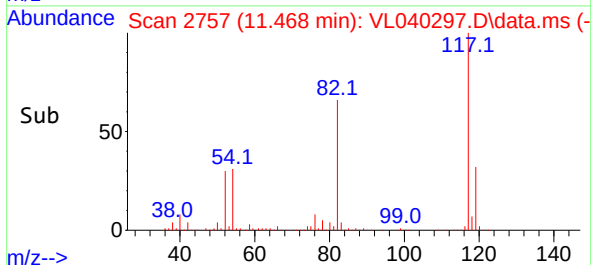
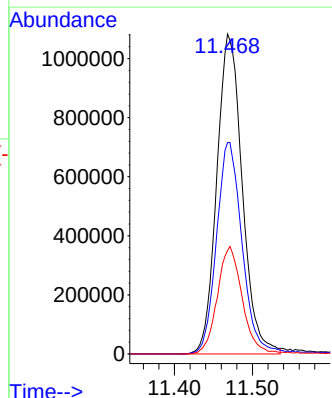
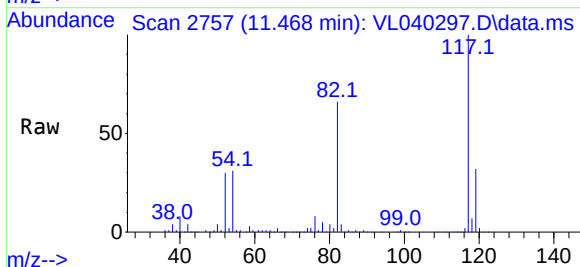
Tgt Ion: 117 Resp: 2458546

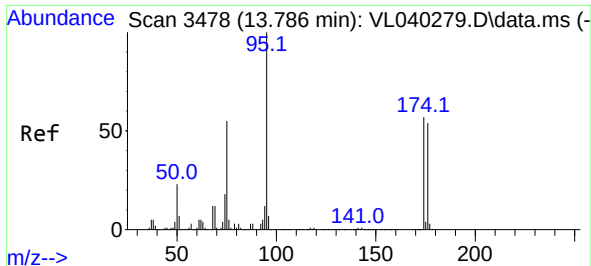
Ion Ratio Lower Upper

117 100

82 67.2 51.4 77.2

119 33.4 24.0 36.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.513 ppbv

RT: 13.780 min Scan# 34

Delta R.T. -0.006 min

Lab File: VL040297.D

Acq: 16 Mar 2023 15:58

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 95 Resp: 1958602

Ion Ratio Lower Upper

95 100

174 61.4 47.0 70.6

175 4.4 3.4 5.2

