

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035238.D
 Acq On : 29 Jul 2020 5:53
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 29 06:24:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 03:31:38 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1311413	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3199647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3038396	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2443664	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

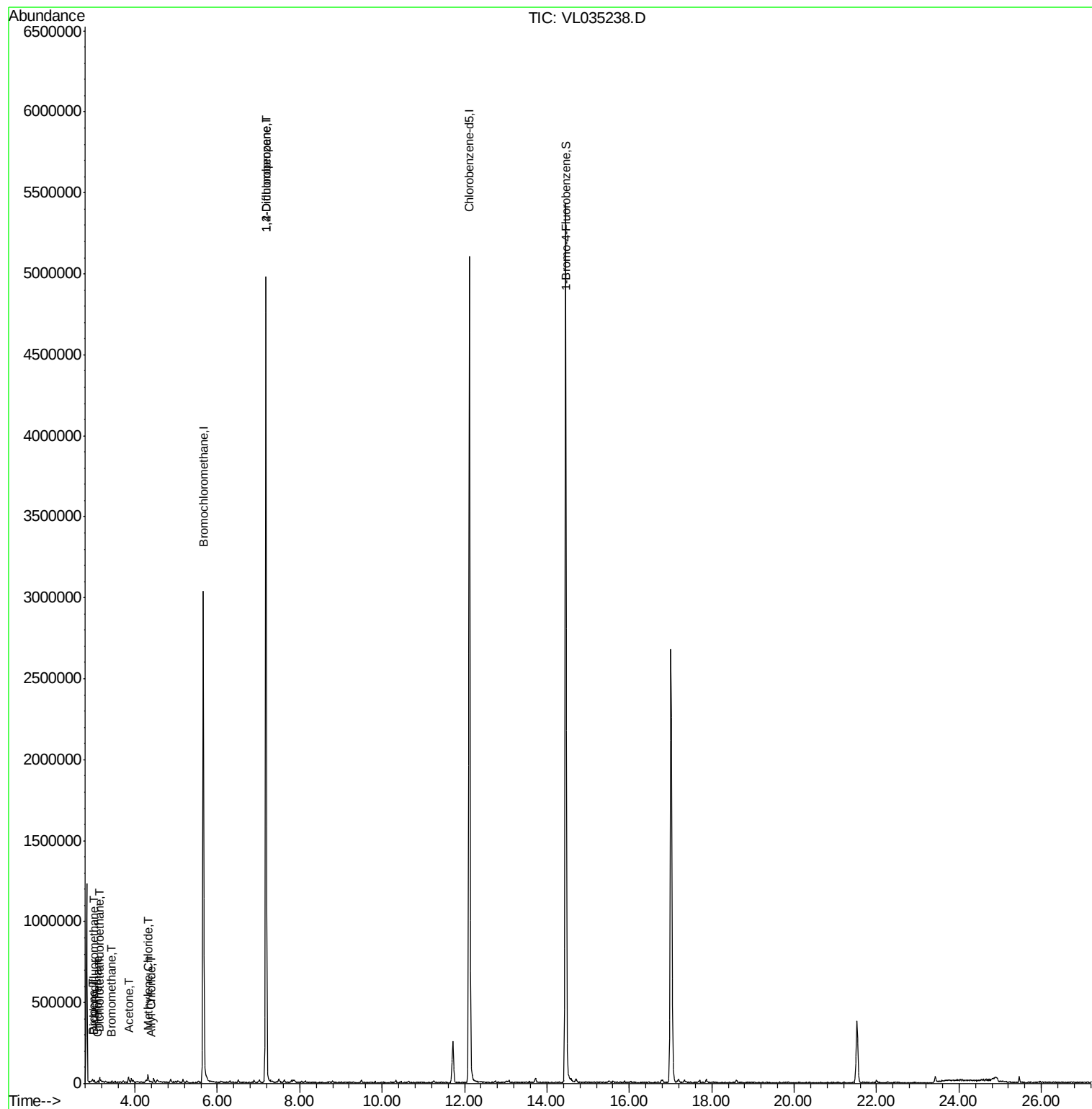
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	6903	0.038	ppbv	89
4) Chloromethane	3.10	50	3862	0.047	ppbv #	55
6) Bromomethane	3.44	94	2638	0.053	ppbv	89
8) Dichlorotetrafluoroethane	3.15	85	9725	0.048	ppbv	98
9) Propene	2.97	41	3316	0.061	ppbv	94
15) Acetone	3.84	43	25035	0.140	ppbv #	62
20) Methylene Chloride	4.31	84	5975	0.077	ppbv #	76
21) Allyl Chloride	4.39	41	3205	0.031	ppbv #	30
39) 1,2-Dichloropropane	7.18	63	885524	9.549	ppbv #	23

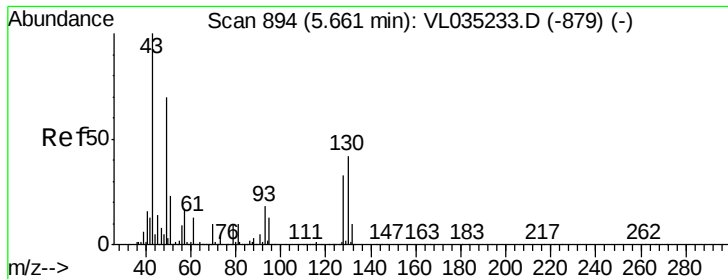
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Instrument :
MSVOA_L
ClientSampleId :

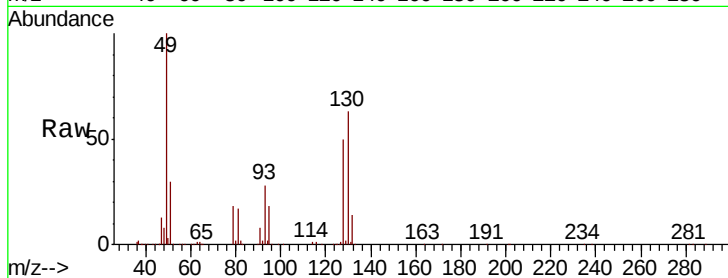
Tot Ion: 49 Resp: 1311413

Ion Ratio Lower Upper

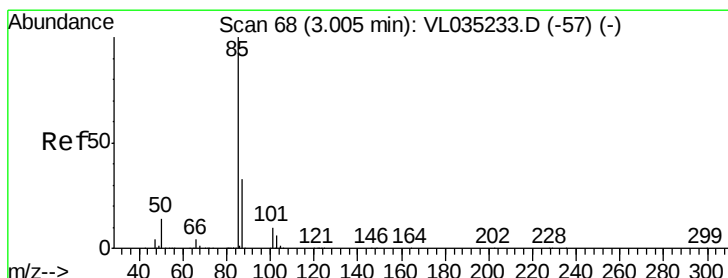
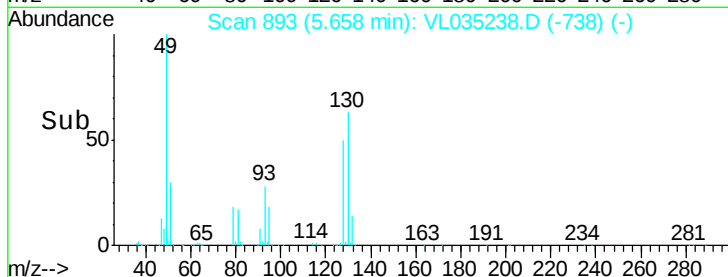
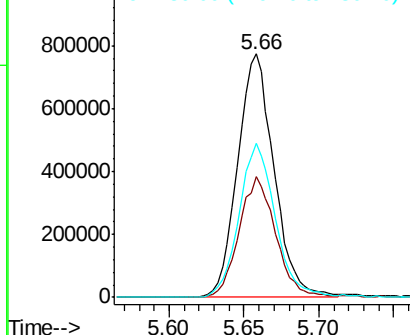
49 100

128 50.2 24.0 72.0

130 63.9 30.7 92.1



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.038 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035238.D

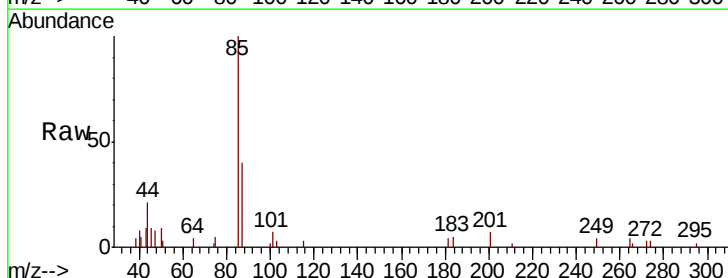
Acq: 29 Jul 2020 5:53

Tgt Ion: 85 Resp: 6903

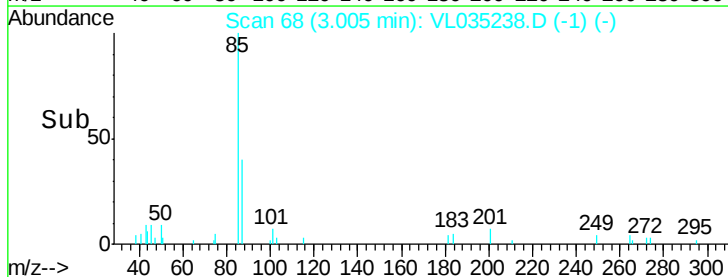
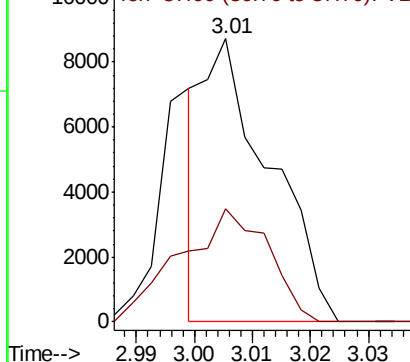
Ion Ratio Lower Upper

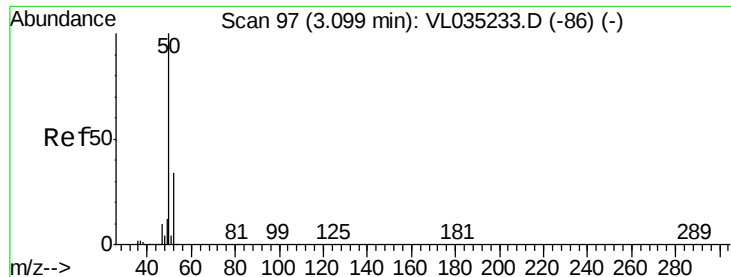
85 100

87 39.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Instrument :

MSVOA_L

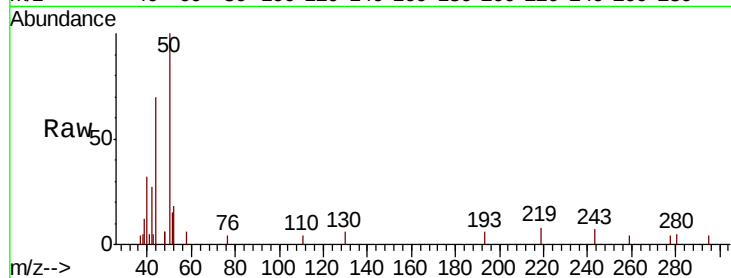
ClientSampled :

Tot Ion: 50 Resp: 3862

Ion Ratio Lower Upper

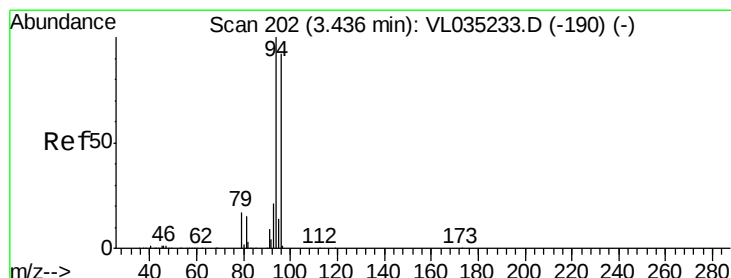
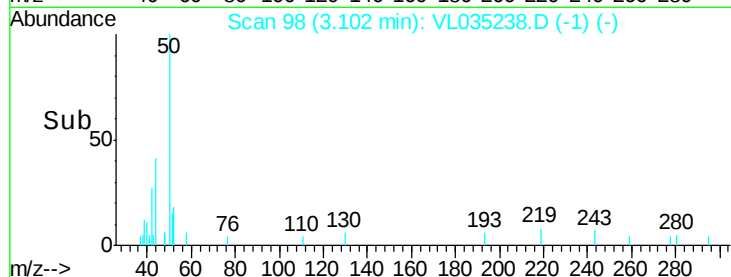
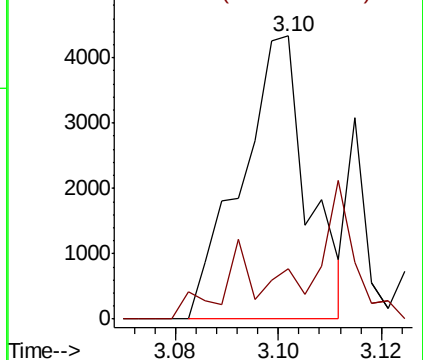
50 100

52 8.1 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#6

Bromomethane

Concen: 0.053 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035238.D

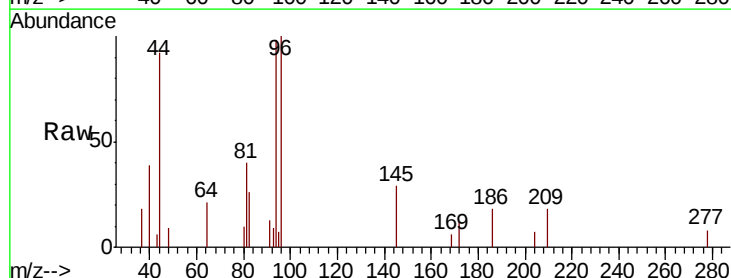
Acq: 29 Jul 2020 5:53

Tgt Ion: 94 Resp: 2638

Ion Ratio Lower Upper

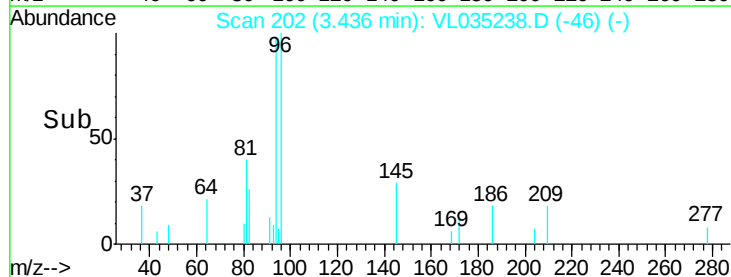
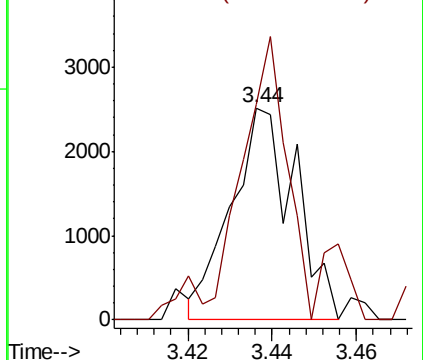
94 100

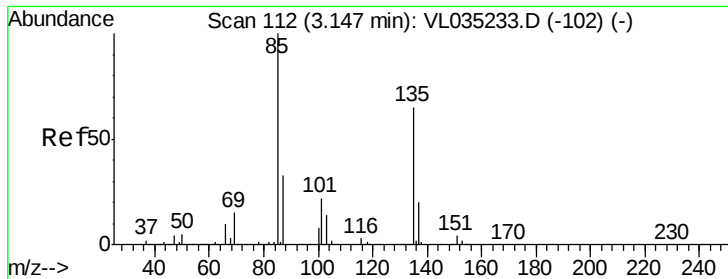
96 81.1 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.048 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Instrument :

MSVOA_L

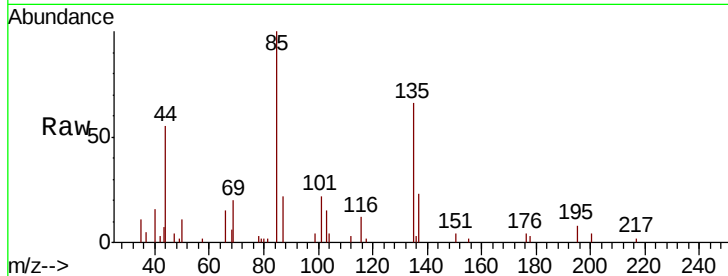
ClientSampleId :

Tot Ion: 85 Resp: 9725

Ion Ratio Lower Upper

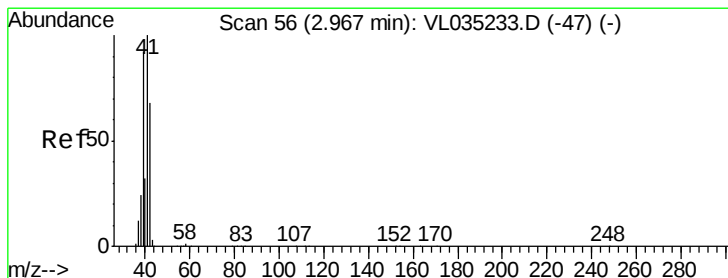
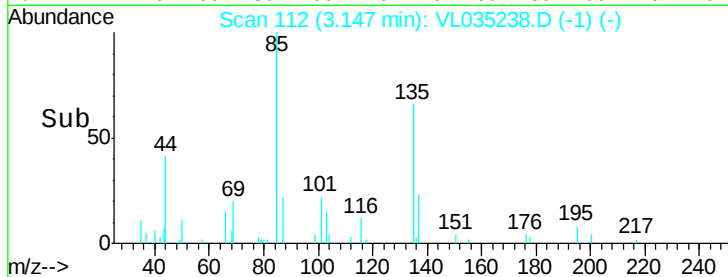
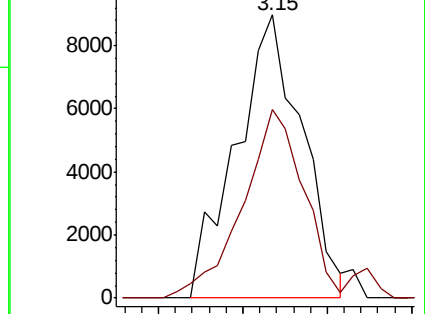
85 100

135 65.5 51.4 77.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.061 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL035238.D

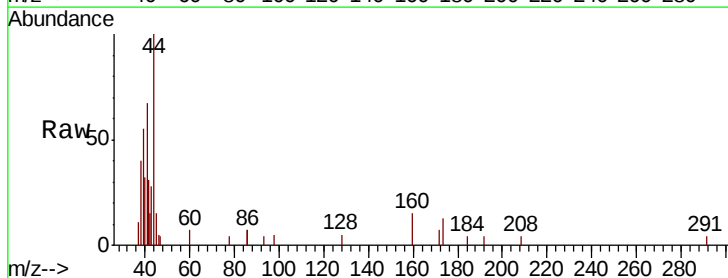
Acq: 29 Jul 2020 5:53

Tgt Ion: 41 Resp: 3316

Ion Ratio Lower Upper

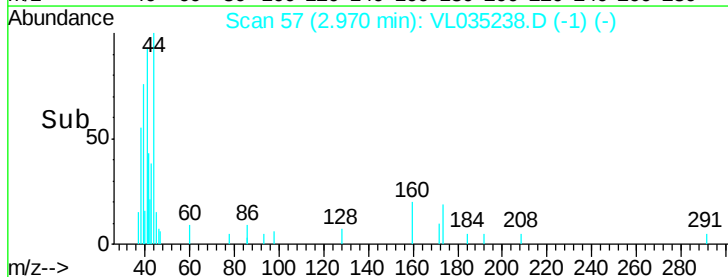
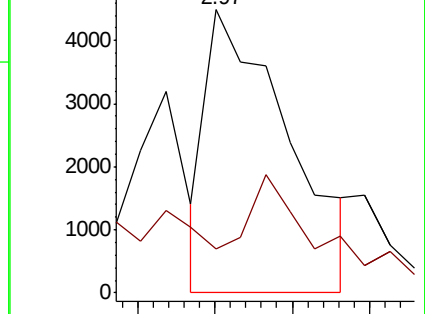
41 100

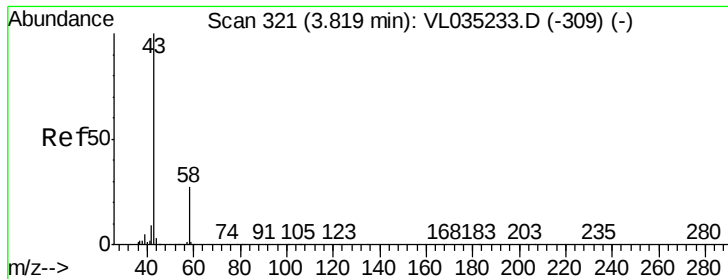
42 73.5 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.140 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.02 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Instrument :

MSVOA_L

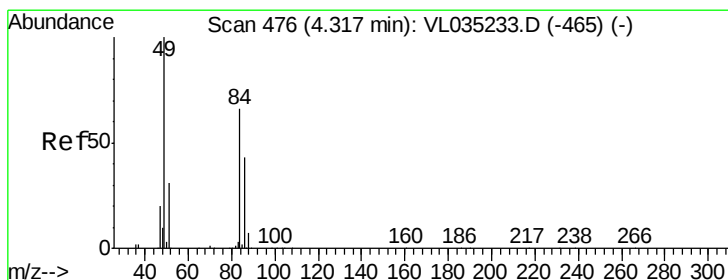
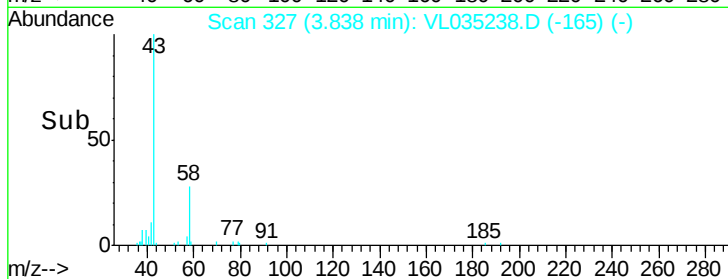
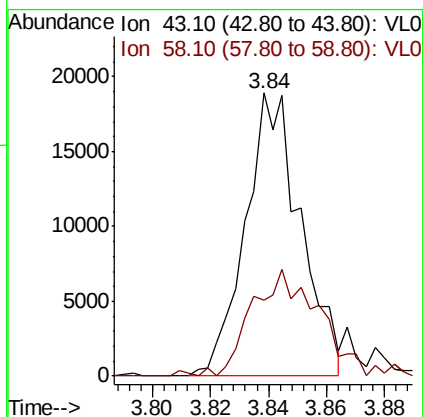
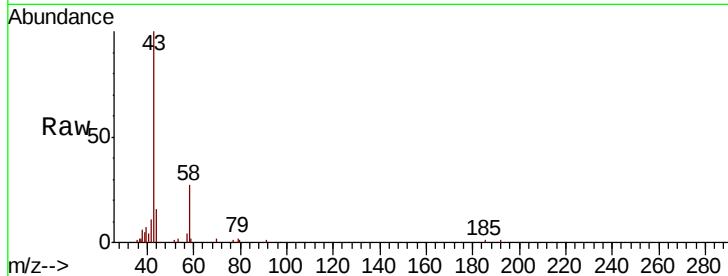
ClientSampleId :

Tot Ion: 43 Resp: 25035

Ion Ratio Lower Upper

43 100

58 46.8 21.8 32.6#



#20

Methylene Chloride

Concen: 0.077 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.00 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Tgt Ion: 84 Resp: 5975

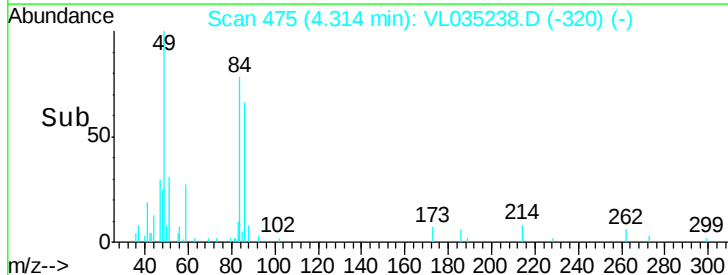
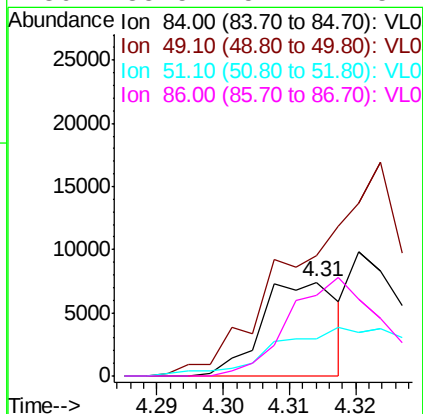
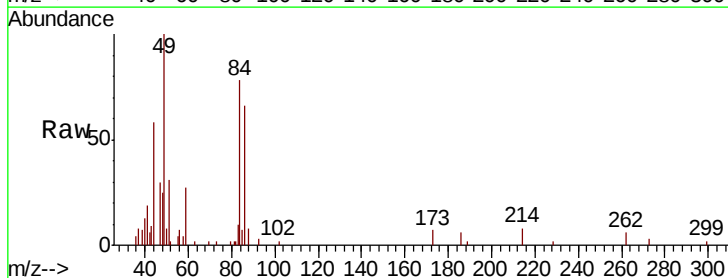
Ion Ratio Lower Upper

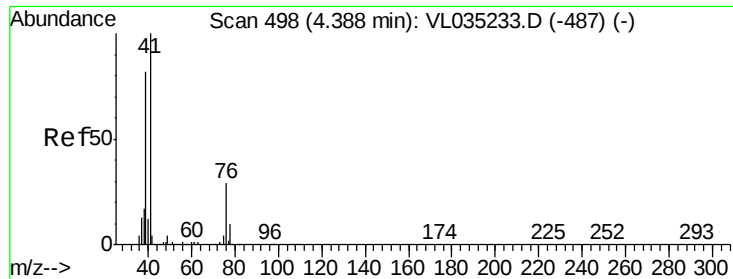
84 100

49 117.1 121.0 181.4#

51 37.0 37.7 56.5#

86 85.5 52.2 78.4#

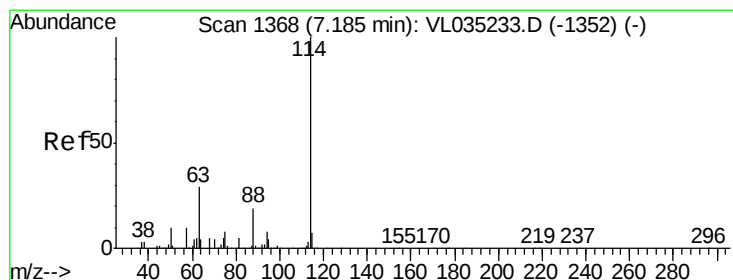
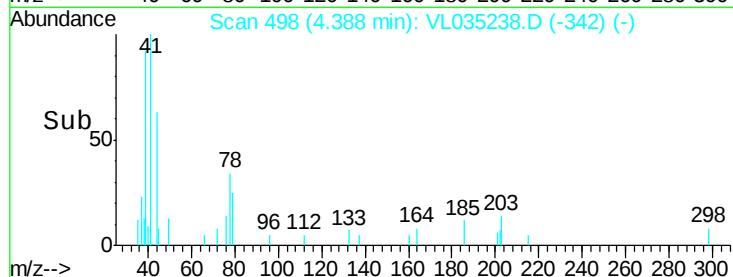
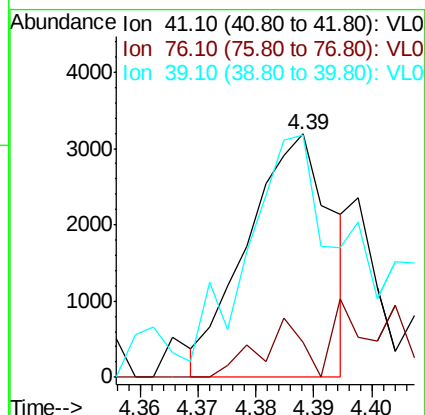
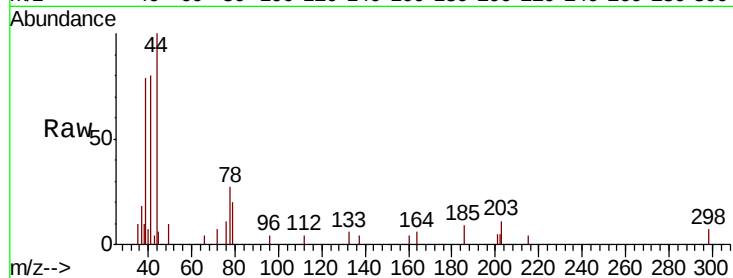




#21
Allvl Chloride
Concen: 0.031 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL035238.D
Acq: 29 Jul 2020 5:53

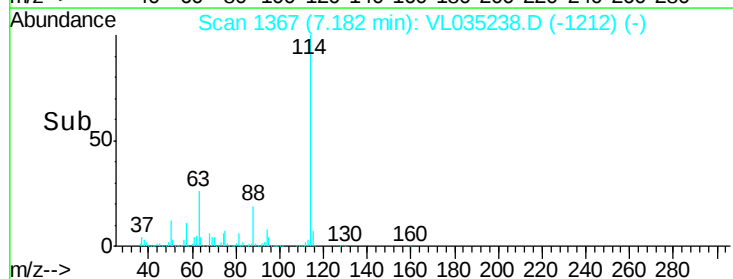
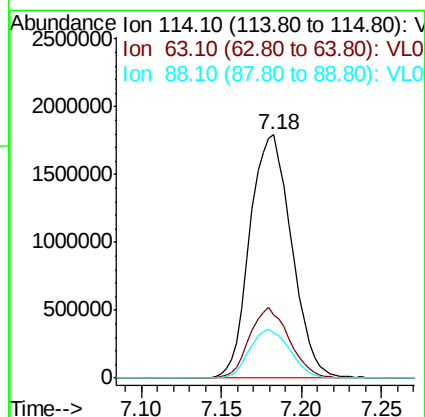
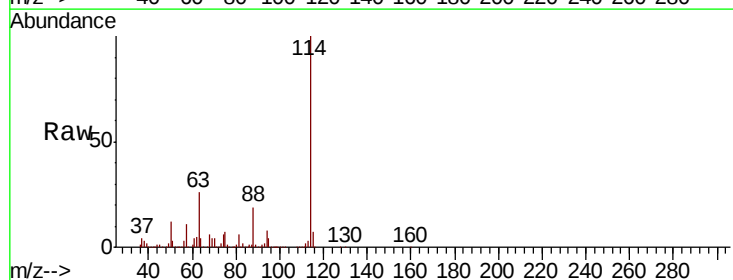
Instrument :
MSVOA_L
ClientSampled :

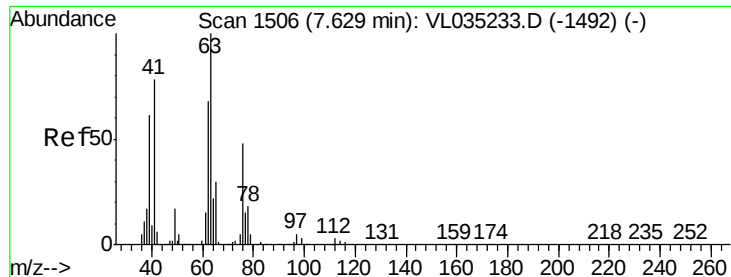
Tot Ion: 41 Resp: 3205
Ion Ratio Lower Upper
41 100
76 0.0 24.4 36.6#
39 146.4 63.8 95.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL035238.D
Acq: 29 Jul 2020 5:53

Tgt Ion: 114 Resp: 3199647
Ion Ratio Lower Upper
114 100
63 27.8 22.2 33.2
88 19.5 15.4 23.0

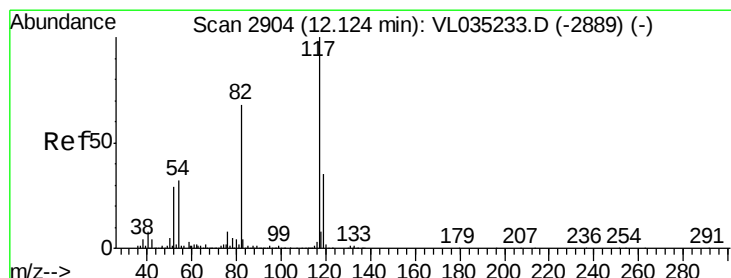
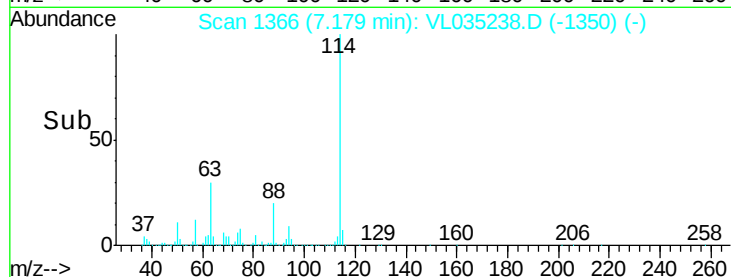
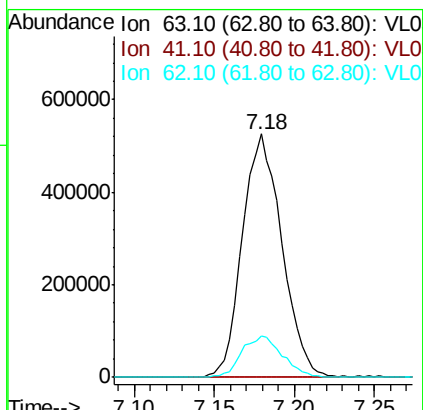
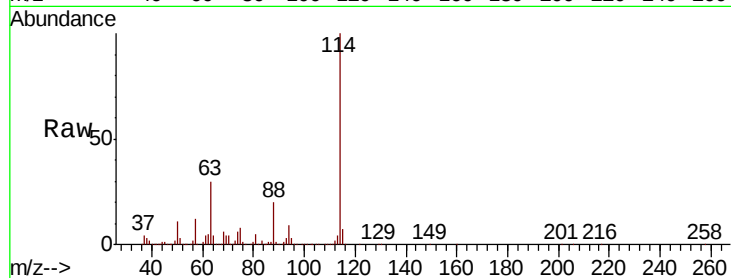




#39
 1,2-Dichloropropane
 Concen: 9.549 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.45 min
 Lab File: VL035238.D
 Acq: 29 Jul 2020 5:53

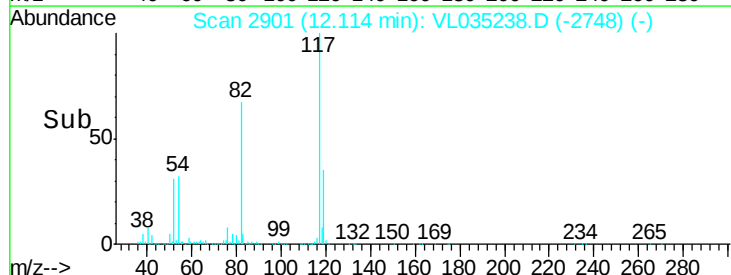
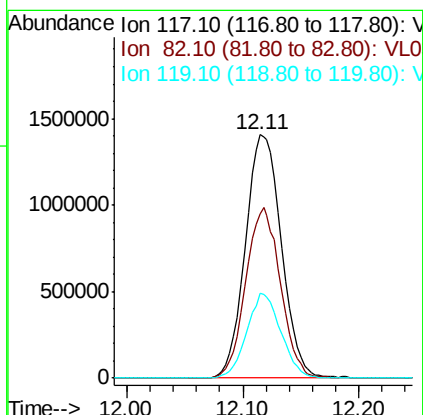
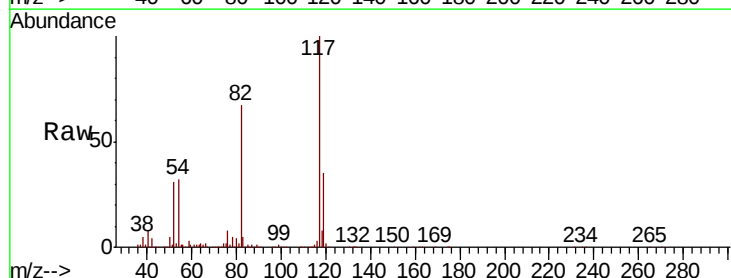
Instrument :
 MSVOA_L
 ClientSampleId :

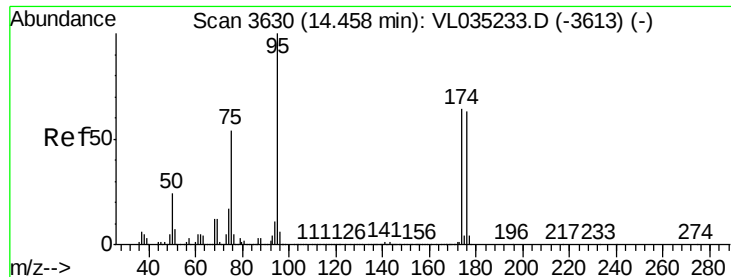
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.2	93.4#
62	16.9	54.2	81.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2901
 Delta R.T. -0.01 min
 Lab File: VL035238.D
 Acq: 29 Jul 2020 5:53

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.1	52.4	78.6
119	33.2	24.6	36.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.880 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.01 min

Lab File: VL035238.D

Acq: 29 Jul 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2443664

Ion Ratio Lower Upper

95 100

174 65.0 52.7 79.1

175 4.8 3.9 5.9

