

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035252.D
 Acq On : 29 Jul 2020 18:47
 Operator : SY/AP
 Sample : L3474-03DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:51:17 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 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1255749	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2969035	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2770125	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2233533	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

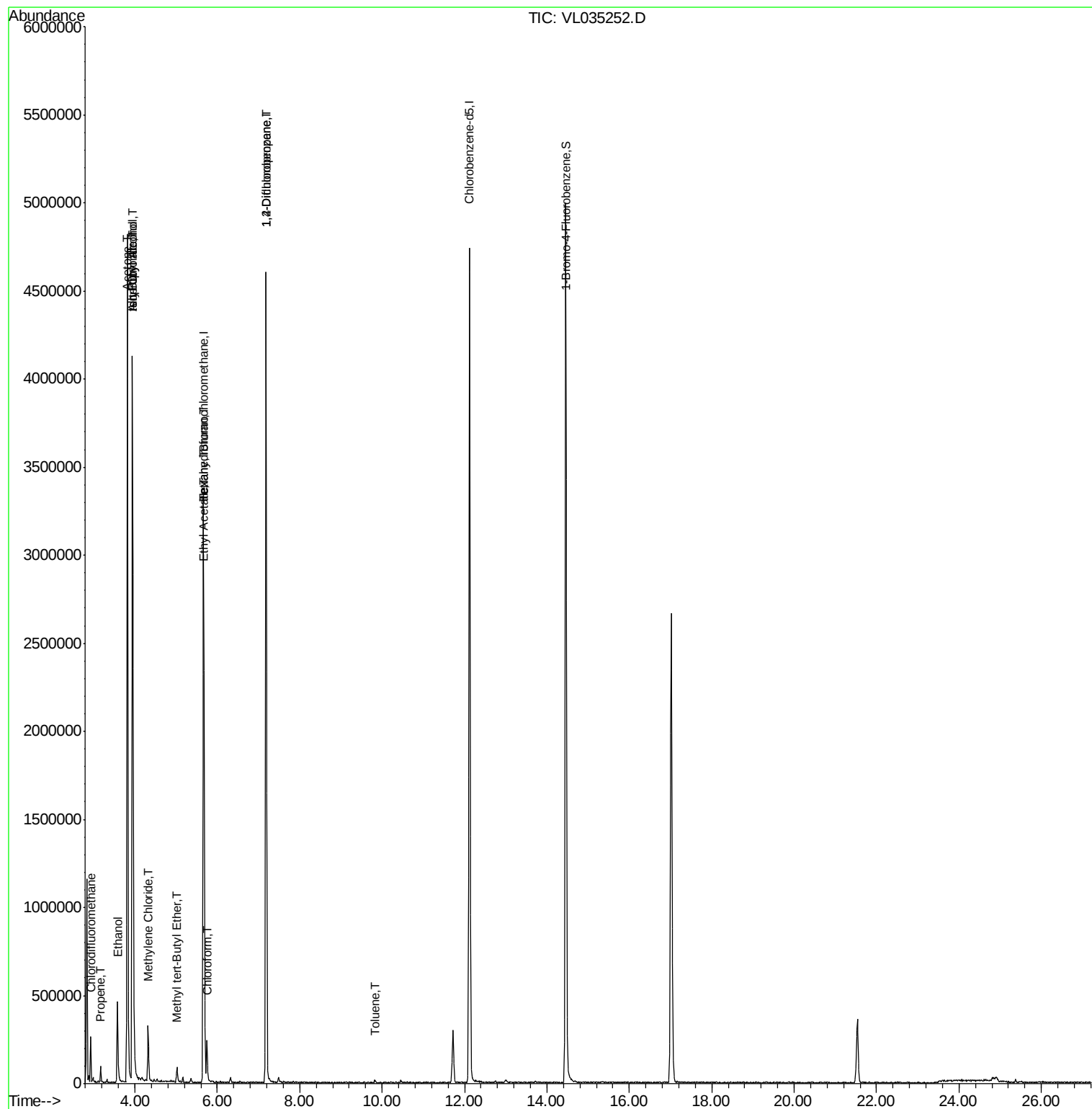
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.93	51	146235	1.052	ppbv #	56
9) Propene	3.17	41	21190	0.437	ppbv	100
13) Ethanol	3.57	45	435480	22.082	ppbv	97
15) Acetone	3.82	43	4858796	29.008	ppbv	97
17) tert-Butyl alcohol	3.94	59	177889	1.100	ppbv	99
19) Isopropyl Alcohol	3.94	45	4573766	41.402	ppbv #	98
20) Methylene Chloride	4.32	84	102064	1.339	ppbv	93
21) Allyl Chloride	3.94	41	484754	5.082	ppbv #	77
25) Ethyl Acetate	5.68	43	269204	1.029	ppbv #	77
26) Hexane	5.68	57	396840	3.363	ppbv #	42
28) Methyl tert-Butyl Ether	5.02	73	25334	0.150	ppbv #	53
29) Chloroform	5.75	83	148492	0.750	ppbv	99
39) 1,2-Dichloropropane	7.18	63	817163	9.926	ppbv #	24
41) Tetrahydrofuran	5.68	42	155385	2.099	ppbv #	46
53) Toluene	9.83	91	6766	0.031	ppbv #	20

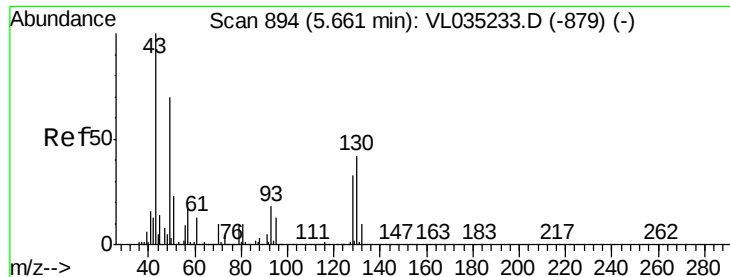
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
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QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

Instrument :
MSVOA_L
ClientSampleId :

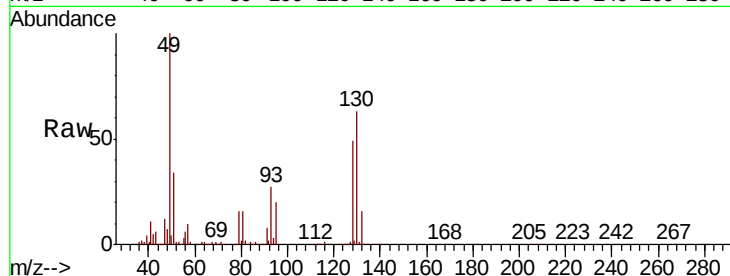
Tot Ion: 49 Resp: 1255749

Ion Ratio Lower Upper

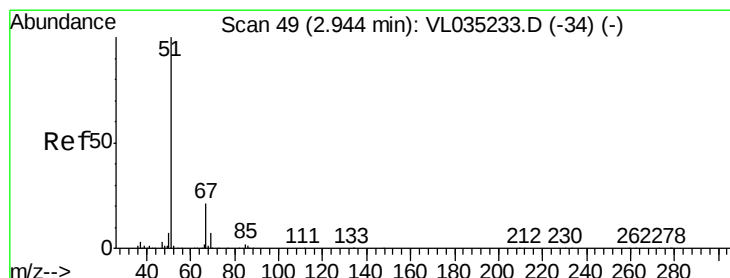
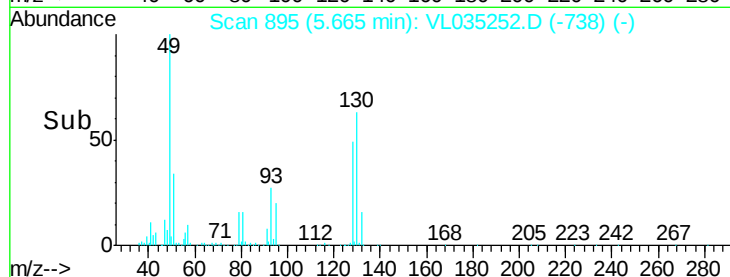
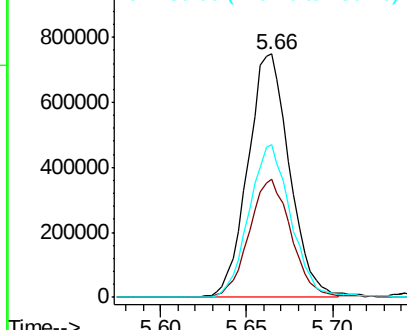
49 100

128 49.6 24.0 72.0

130 63.5 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



#3

Chlorodifluoromethane

Concen: 1.052 ppbv

RT: 2.93 min Scan# 43

Delta R.T. -0.02 min

Lab File: VL035252.D

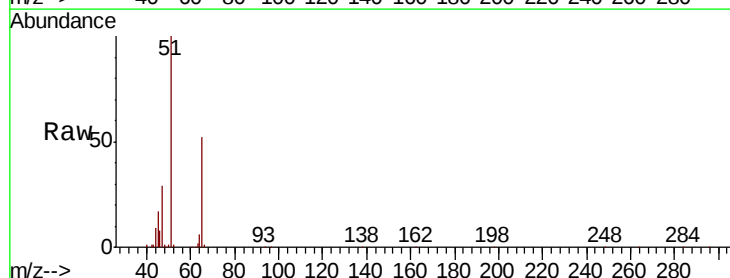
Acq: 29 Jul 2020 18:47

Tgt Ion: 51 Resp: 146235

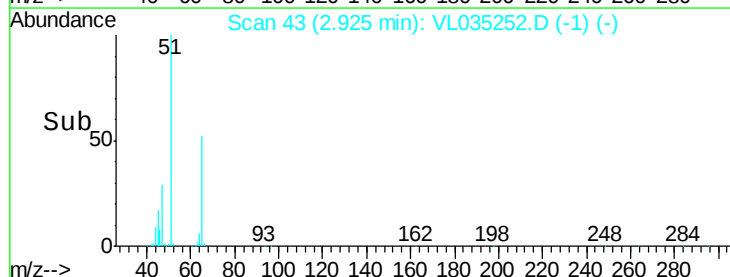
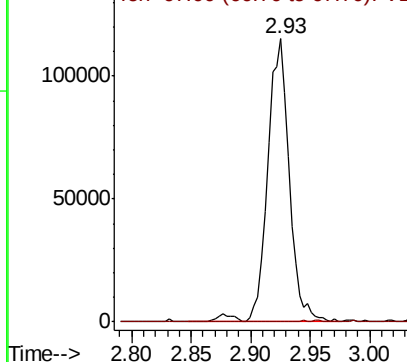
Ion Ratio Lower Upper

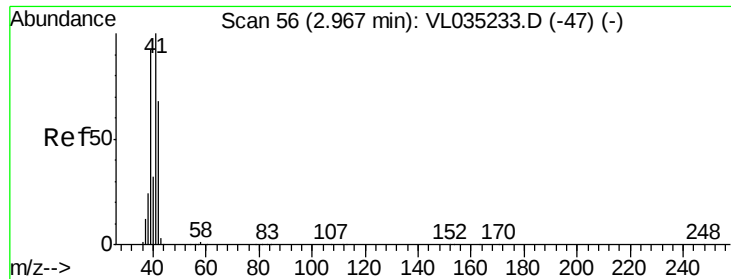
51 100

67 0.5 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.437 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

Instrument :

MSVOA_L

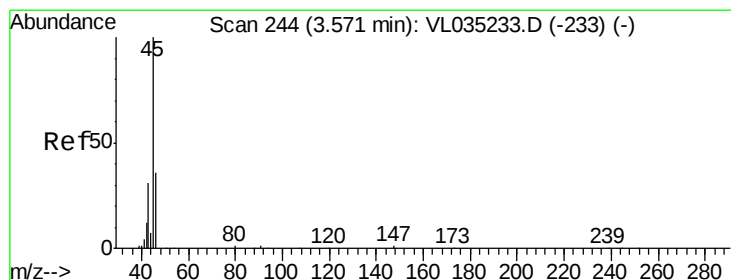
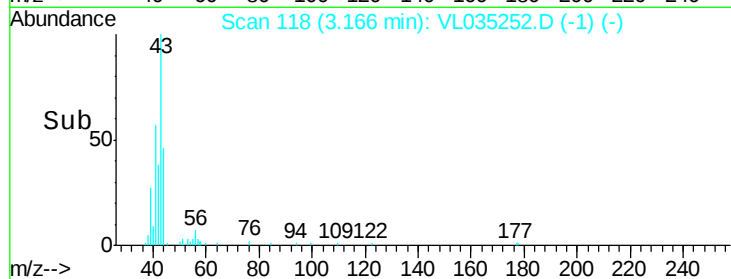
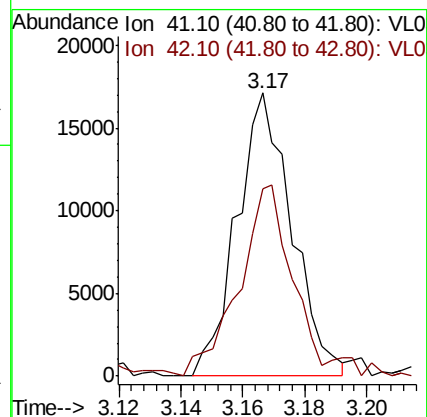
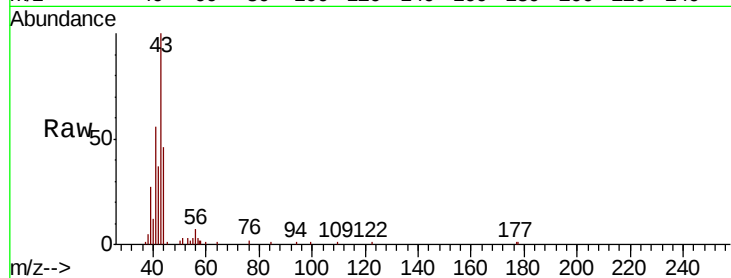
ClientSampleId :

Tot Ion: 41 Resp: 21190

Ion Ratio Lower Upper

41 100

42 68.4 55.0 82.6



#13

Ethanol

Concen: 22.082 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035252.D

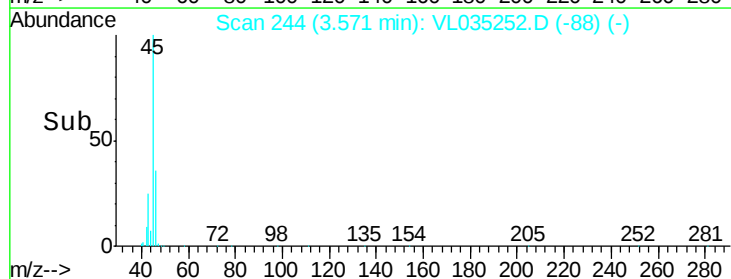
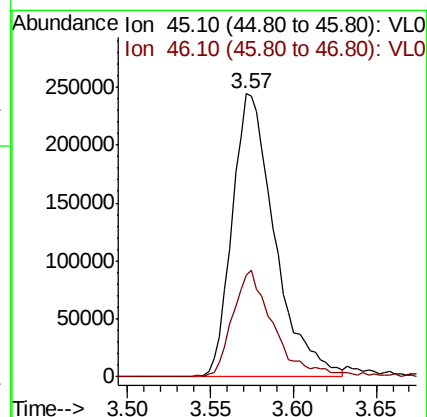
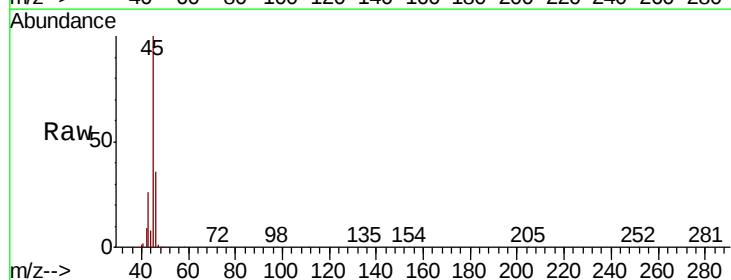
Acq: 29 Jul 2020 18:47

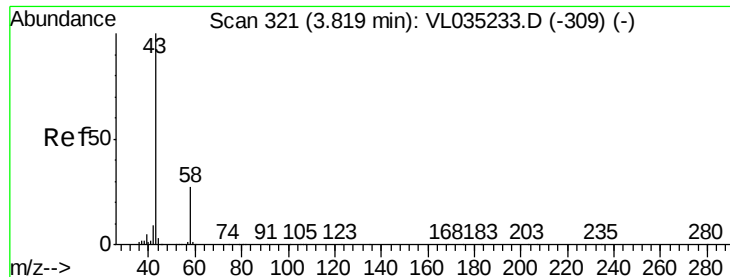
Tgt Ion: 45 Resp: 435480

Ion Ratio Lower Upper

45 100

46 37.5 15.8 63.4





#15

Acetone

Concen: 29.008 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

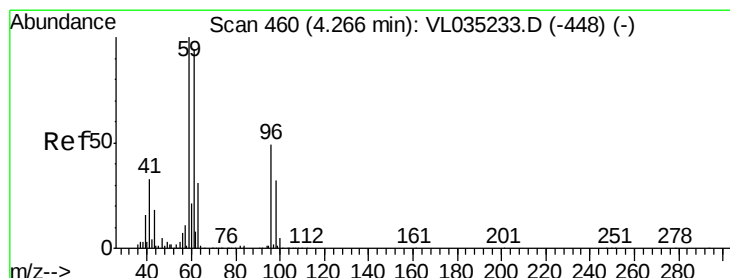
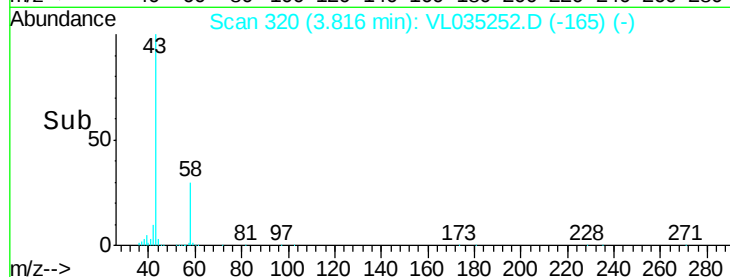
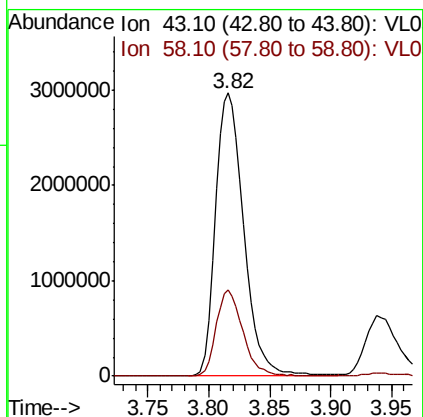
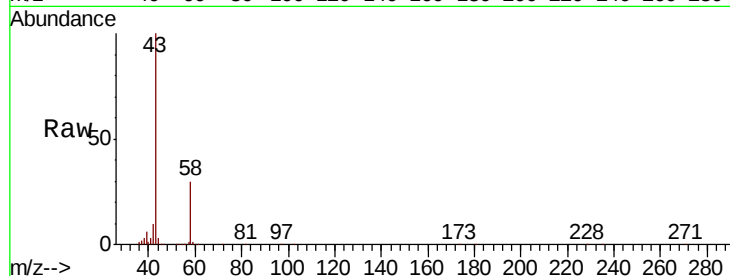
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 4858796

Ion Ratio Lower Upper

43 100

58 28.7 21.8 32.6



#17

tert-Butyl alcohol

Concen: 1.100 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.32 min

Lab File: VL035252.D

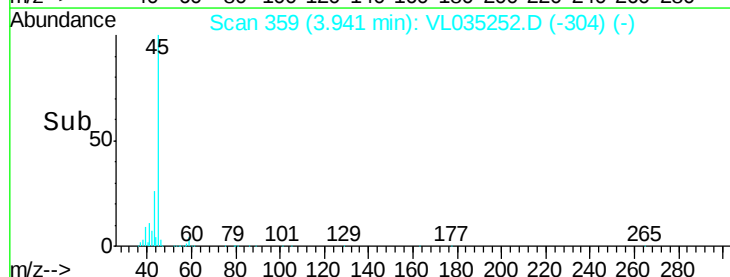
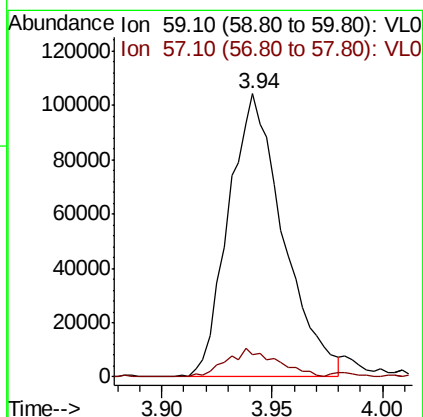
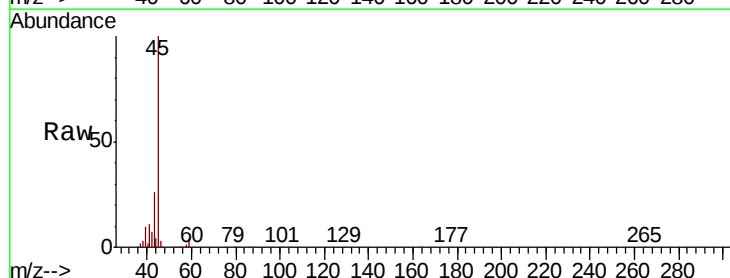
Acq: 29 Jul 2020 18:47

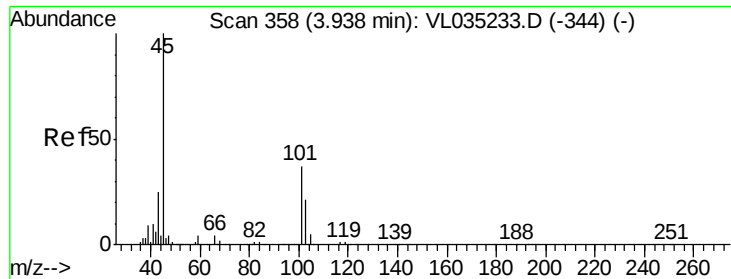
Tgt Ion: 59 Resp: 177889

Ion Ratio Lower Upper

59 100

57 10.3 8.6 12.8



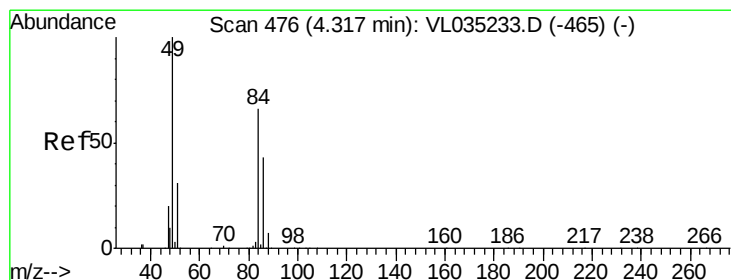
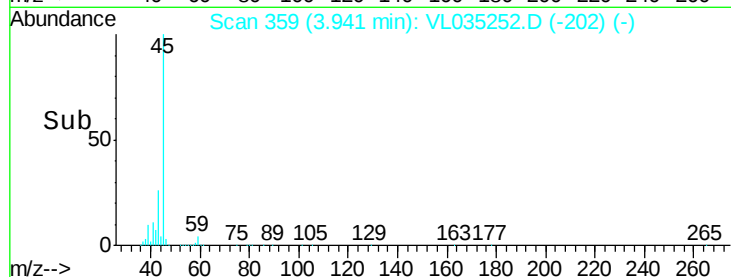
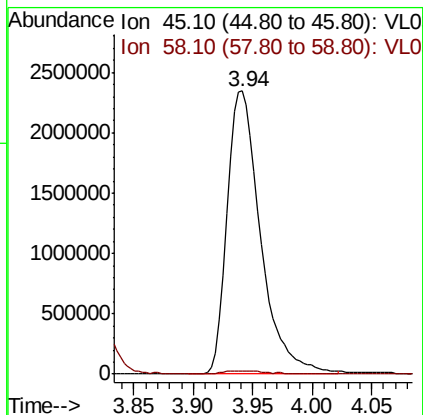
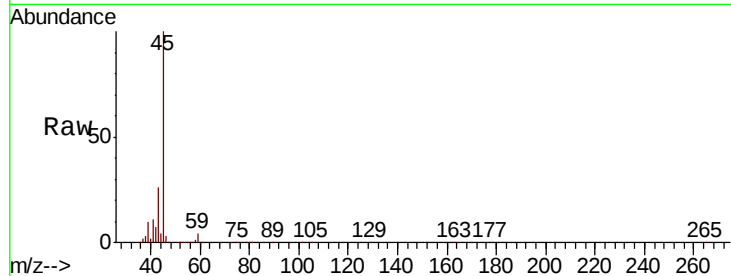


#19

Isopropyl Alcohol
 Concen: 41.402 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.00 min
 Lab File: VL035252.D
 Acq: 29 Jul 2020 18:47

Instrument :
 MSVOA_L
 ClientSampled :

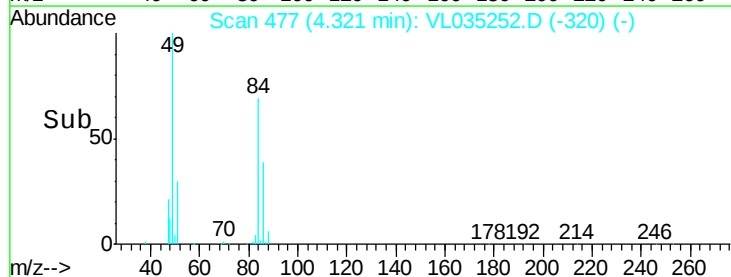
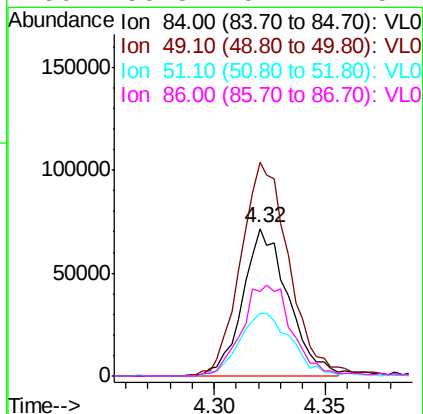
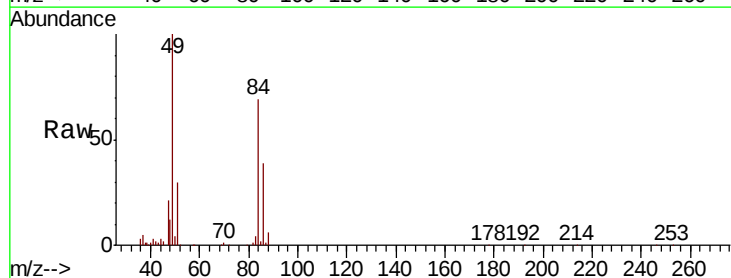
Tot Ion: 45 Resp: 4573766
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.9 2.9#

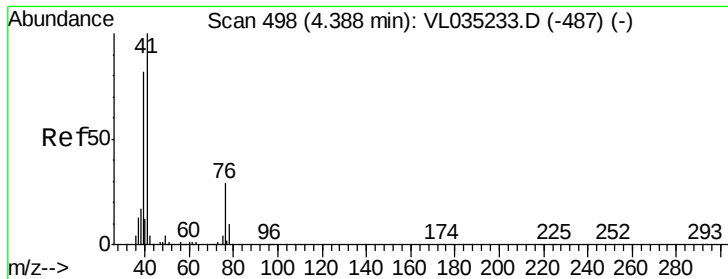


#20

Methylene Chloride
 Concen: 1.339 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.00 min
 Lab File: VL035252.D
 Acq: 29 Jul 2020 18:47

Tgt Ion: 84 Resp: 102064
 Ion Ratio Lower Upper
 84 100
 49 144.0 121.0 181.4
 51 43.2 37.7 56.5
 86 56.8 52.2 78.4

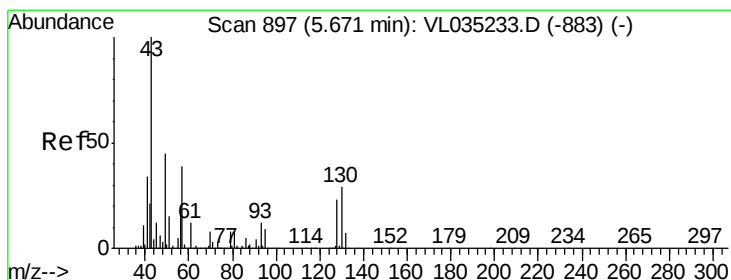
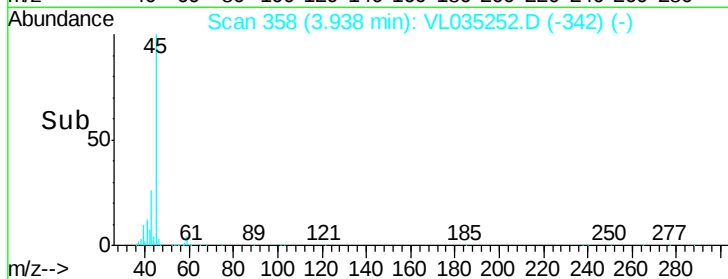
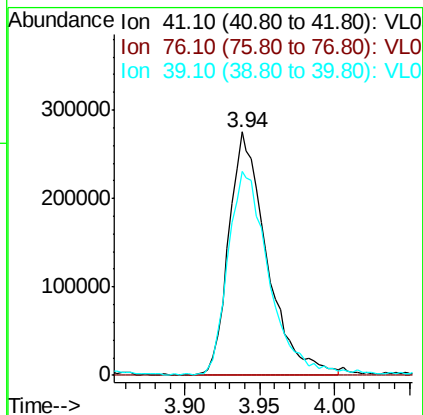
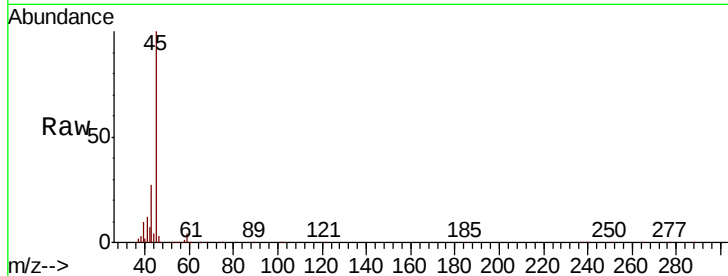




#21
Allvl Chloride
Concen: 5.082 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.45 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

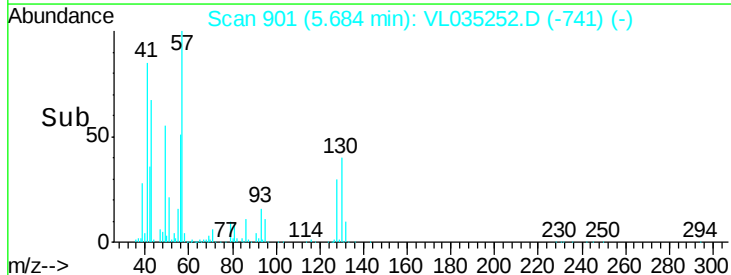
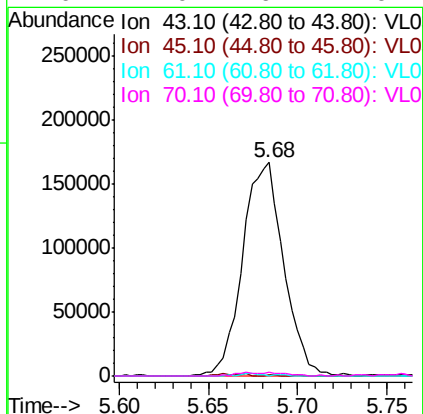
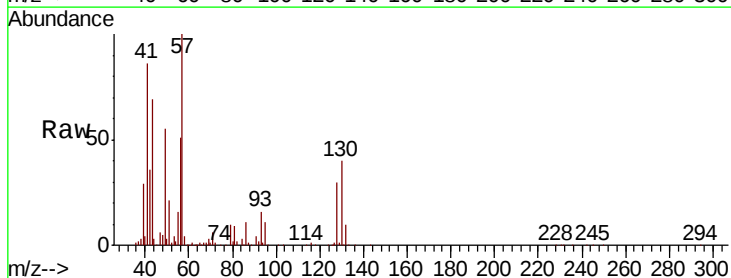
Instrument :
MSVOA_L
ClientSampleId :

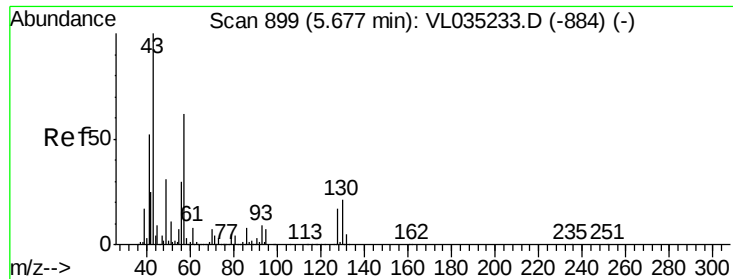
Tot Ion: 41 Resp: 484754
Ion Ratio Lower Upper
41 100
76 0.0 24.4 36.6#
39 89.2 63.8 95.8



#25
Ethyl Acetate
Concen: 1.029 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

Tgt Ion: 43 Resp: 269204
Ion Ratio Lower Upper
43 100
45 0.9 8.5 12.7#
61 0.8 8.1 12.1#
70 2.0 6.2 9.4#

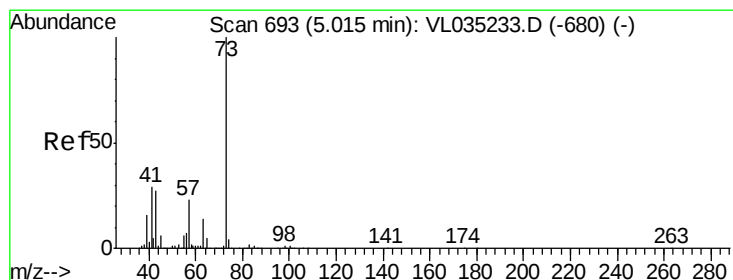
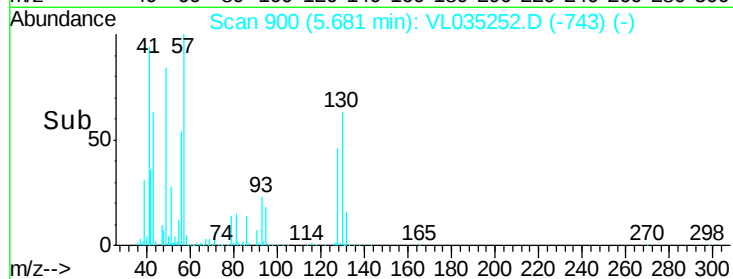
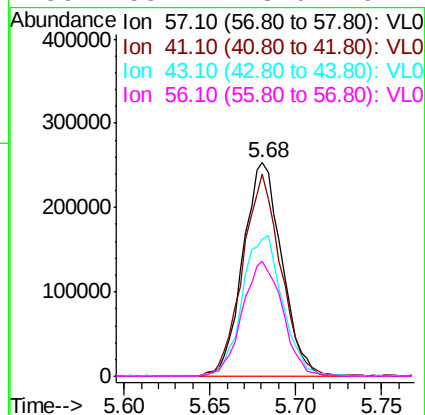
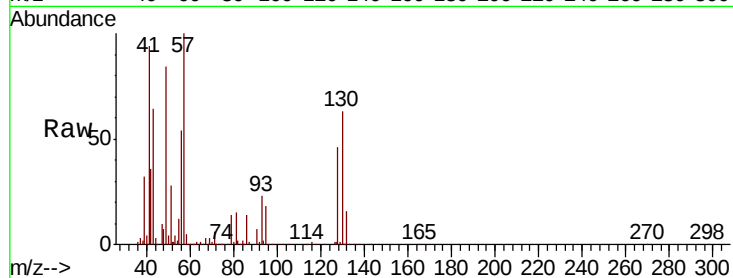




#26
Hexane
Concen: 3.363 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

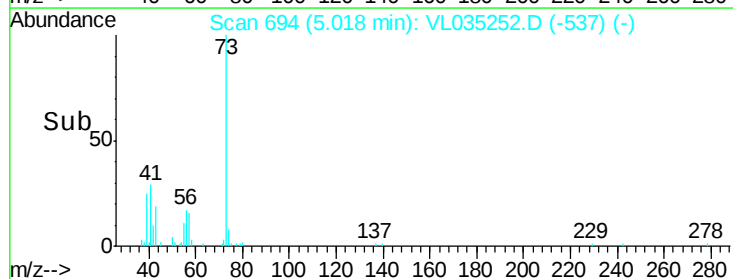
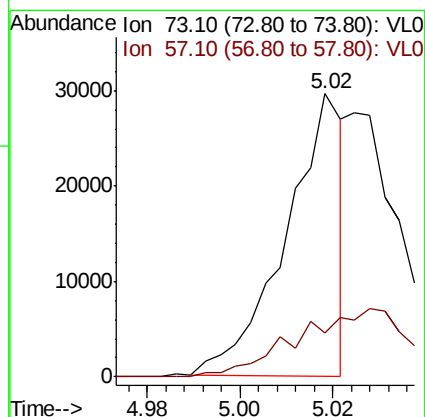
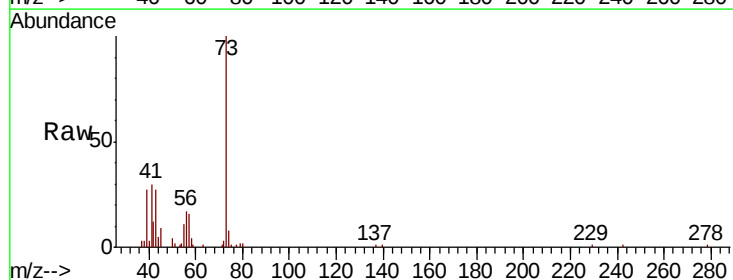
Instrument :
MSVOA_L
ClientSampleId :

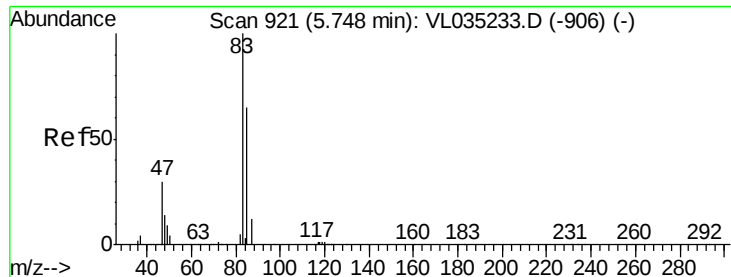
Tot Ion: 57 Resp: 396840
Ion Ratio Lower Upper
57 100
41 93.3 73.9 110.9
43 68.5 177.6 266.4#
56 55.7 43.0 64.4



#28
Methyl tert-Butyl Ether
Concen: 0.150 ppbv
RT: 5.02 min Scan# 694
Delta R.T. 0.00 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

Tgt Ion: 73 Resp: 25334
Ion Ratio Lower Upper
73 100
57 0.0 18.2 27.4#

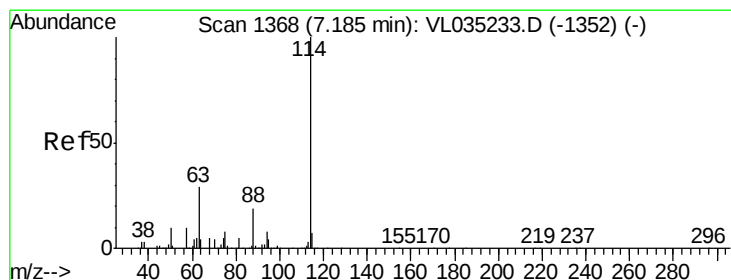
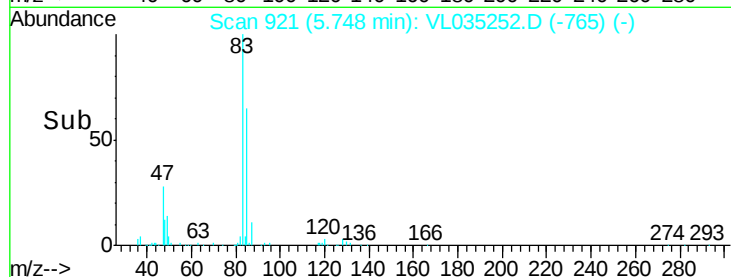
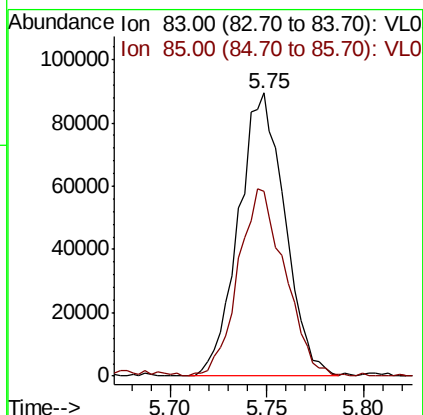
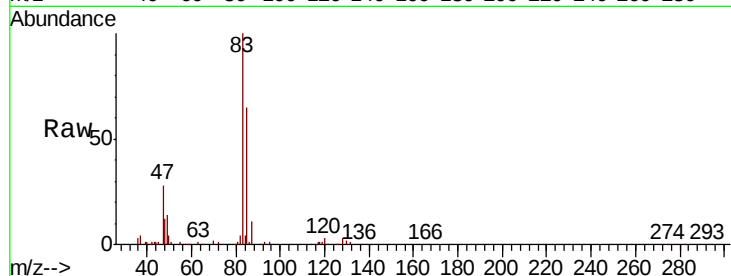




#29
Chloroform
Concen: 0.750 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

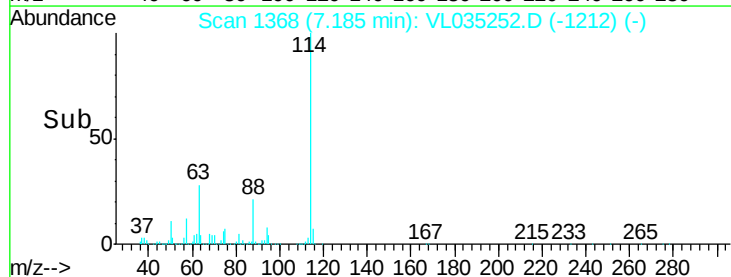
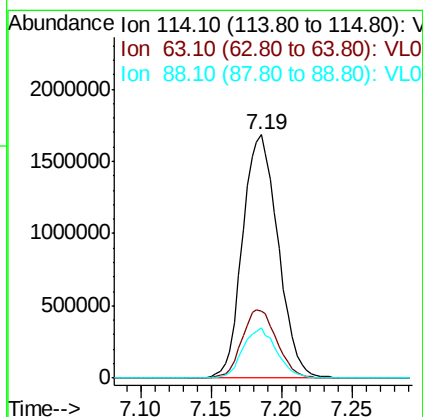
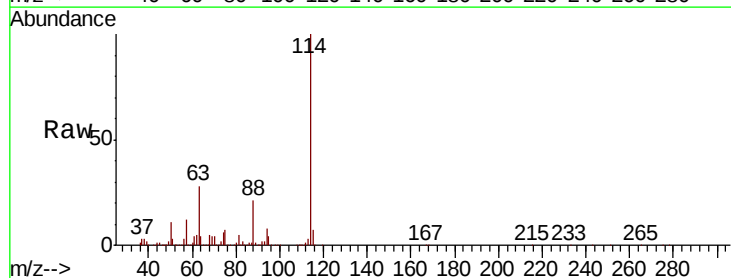
Instrument :
MSVOA_L
ClientSampleId :

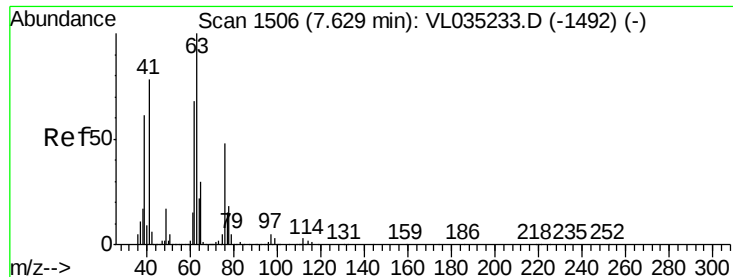
Tot Ion: 83 Resp: 148492
Ion Ratio Lower Upper
83 100
85 65.4 51.7 77.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL035252.D
Acq: 29 Jul 2020 18:47

Tgt Ion: 114 Resp: 2969035
Ion Ratio Lower Upper
114 100
63 27.7 22.2 33.2
88 19.5 15.4 23.0

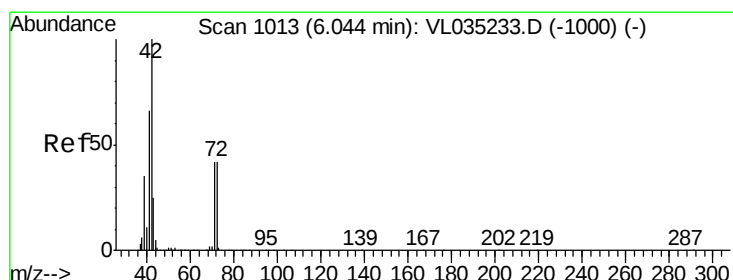
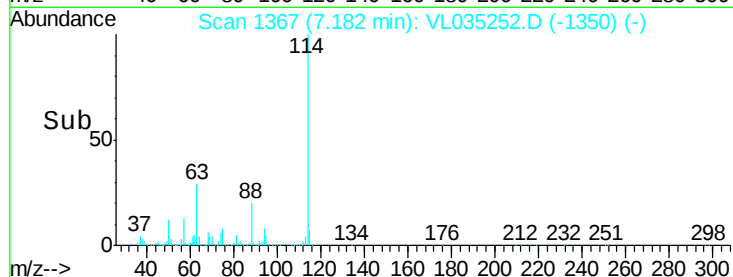
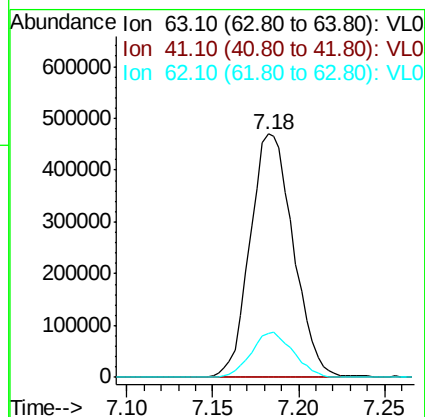
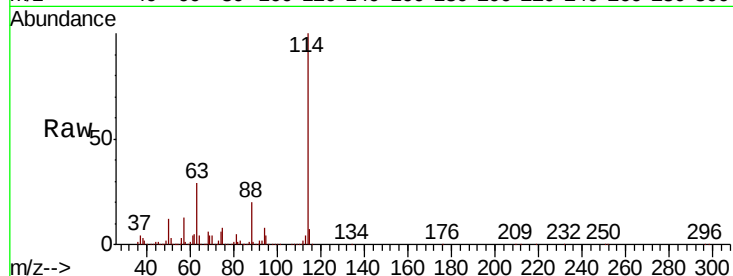




#39
 1,2-Dichloropropane
 Concen: 9.926 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.45 min
 Lab File: VL035252.D
 Acq: 29 Jul 2020 18:47

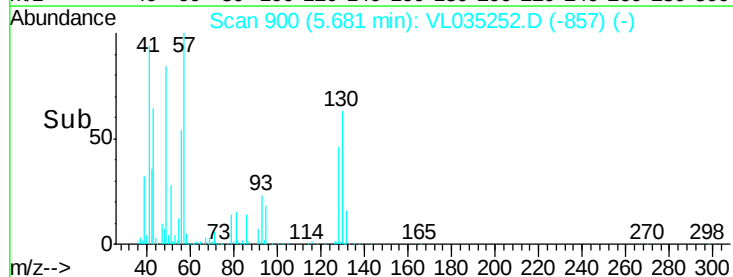
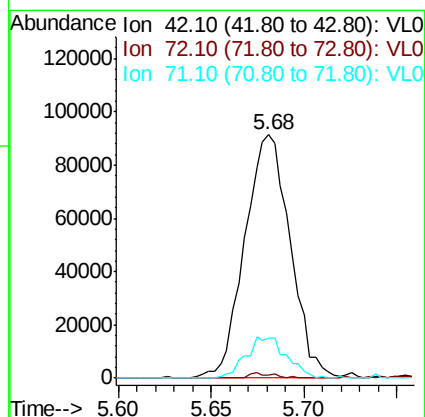
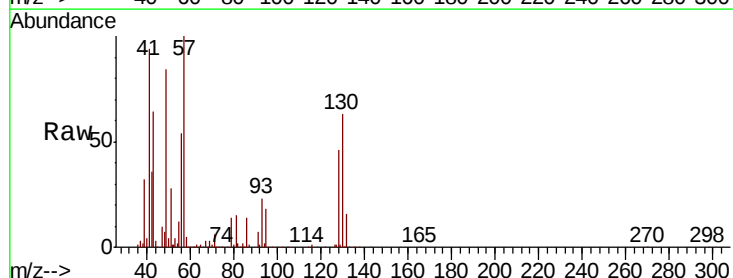
Instrument :
 MSVOA_L
 ClientSampleId :

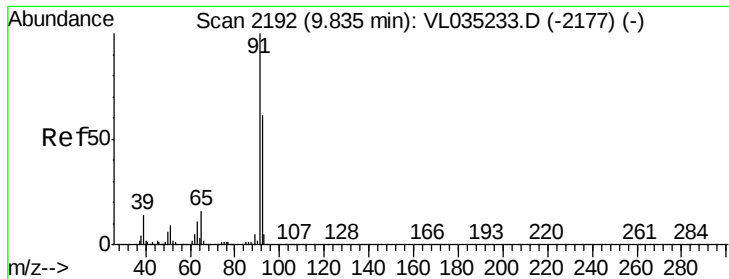
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.3	62.2	93.4#
62	18.1	54.2	81.2#



#41
 Tetrahydrofuran
 Concen: 2.099 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. -0.36 min
 Lab File: VL035252.D
 Acq: 29 Jul 2020 18:47

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.1	34.2	51.2#
71	15.2	33.2	49.8#





#53

Toluene

Concen: 0.031 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.01 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

Instrument :

MSVOA_L

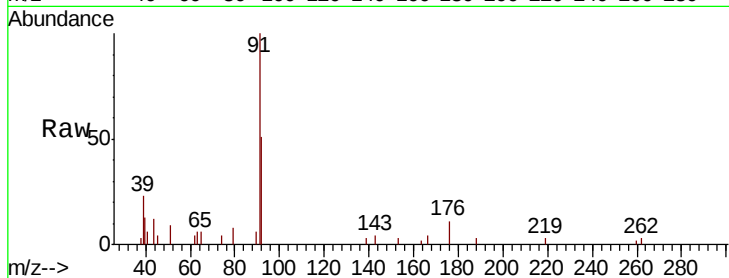
ClientSampleId :

Tot Ion: 91 Resp: 6766

Ion Ratio Lower Upper

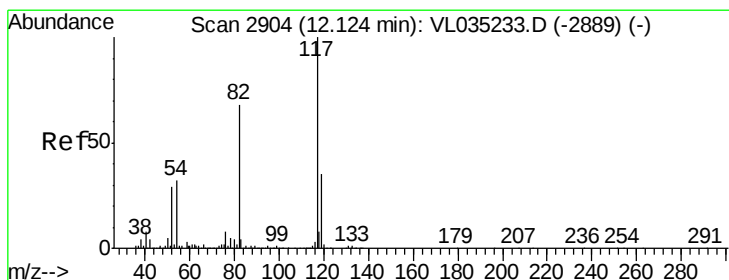
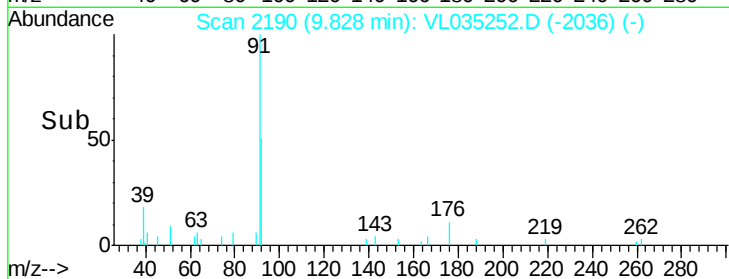
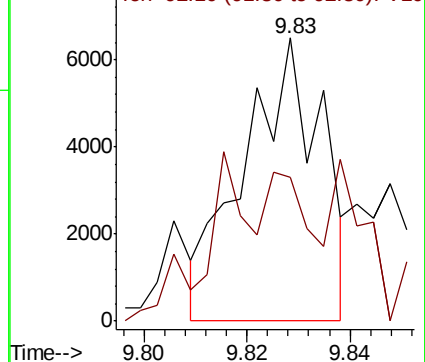
91 100

92 0.0 48.5 72.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

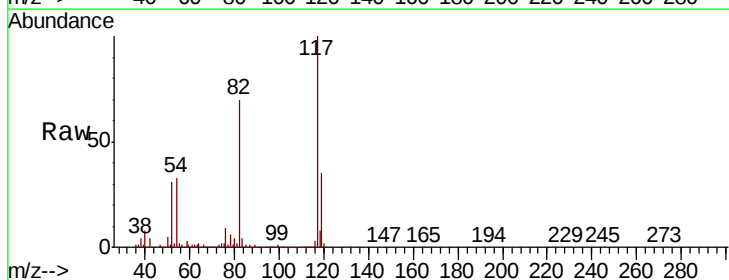
Tgt Ion: 117 Resp: 2770125

Ion Ratio Lower Upper

117 100

82 69.0 52.4 78.6

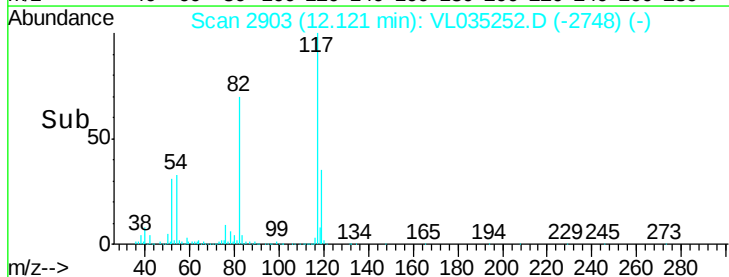
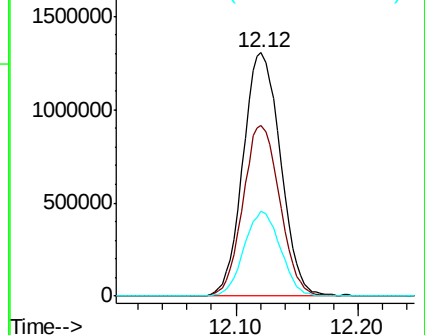
119 33.9 24.6 36.8

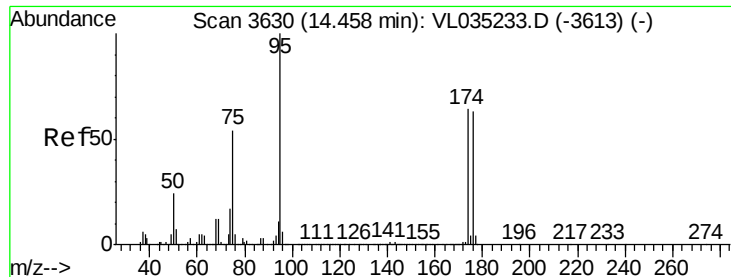


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.090 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035252.D

Acq: 29 Jul 2020 18:47

Instrument :

MSVOA_L

ClientSampleId :

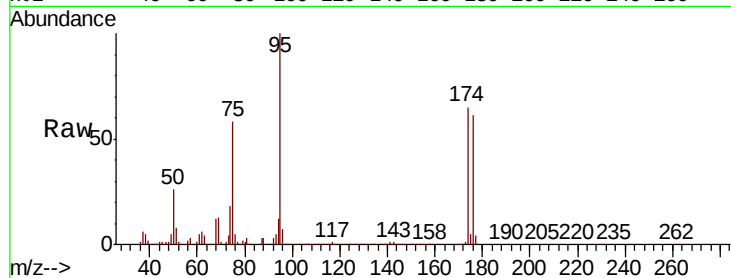
Tot Ion: 95 Resp: 2233533

Ion Ratio Lower Upper

95 100

174 66.6 52.7 79.1

175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

