

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035053.D
 Acq On : 19 May 2020 20:56
 Operator : SY/AP
 Sample : L2683-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 04:47:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1119538	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2550858	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	2472755	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2085654	10.42	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

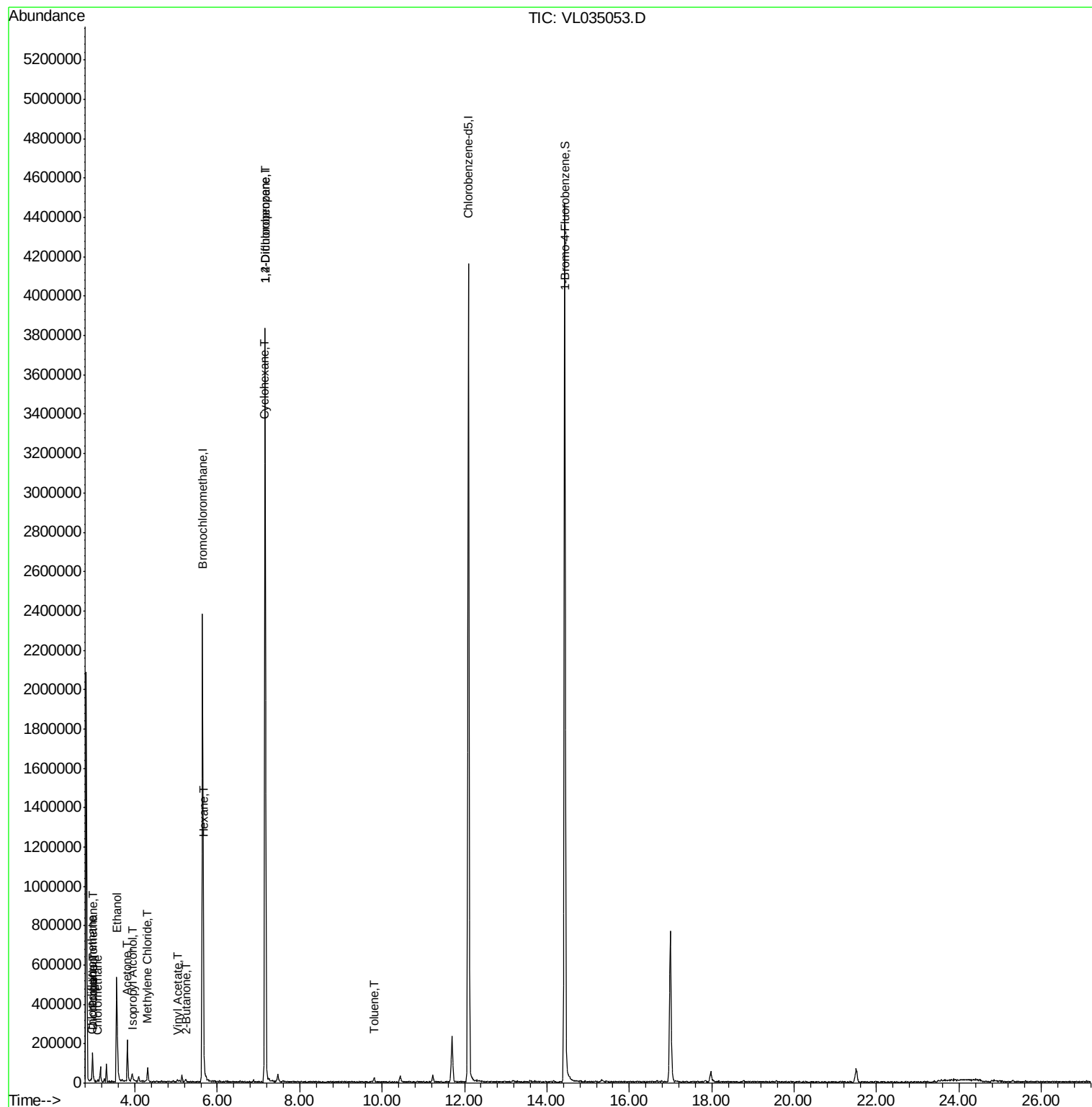
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	11526	0.073 ppbv	93
3) Chlorodifluoromethane	2.94	51	11496	0.090 ppbv #	89
4) Chloromethane	3.09	50	4998	0.068 ppbv	95
9) Propene	2.97	41	30086	0.542 ppbv #	71
13) Ethanol	3.56	45	534657	29.212 ppbv	97
15) Acetone	3.81	43	192001	1.297 ppbv	96
19) Isopropyl Alcohol	3.94	45	9219	0.093 ppbv #	50
20) Methylene Chloride	4.31	84	11577	0.236 ppbv	84
23) Vinyl Acetate	5.04	43	8370	0.045 ppbv #	79
26) Hexane	5.67	57	4163	0.039 ppbv #	25
30) Cyclohexane	7.14	84	6772	0.081 ppbv #	1
34) 2-Butanone	5.22	43	9537	0.060 ppbv #	79
39) 1,2-Dichloropropane	7.16	63	708122	8.399 ppbv #	26
53) Toluene	9.80	91	7275	0.033 ppbv #	20

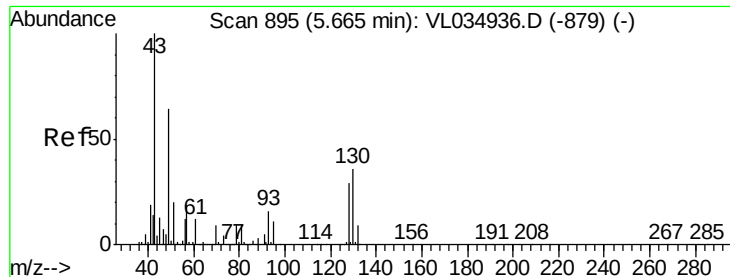
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampled :

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
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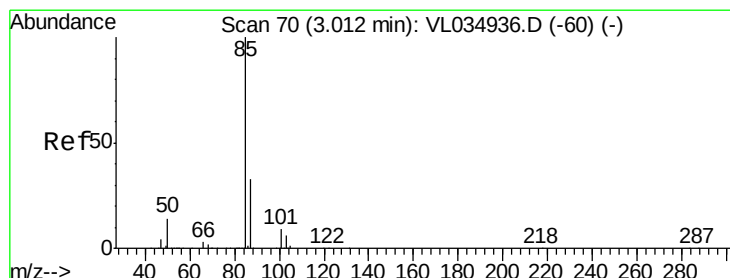
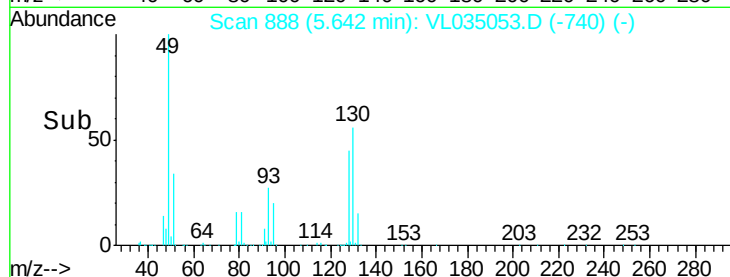
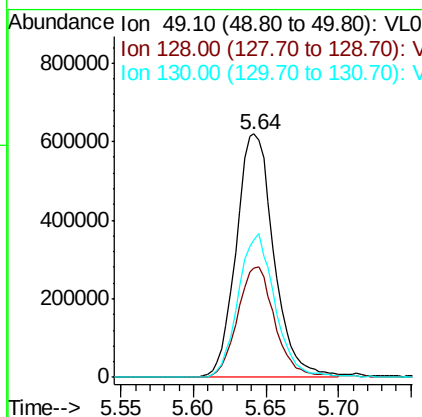
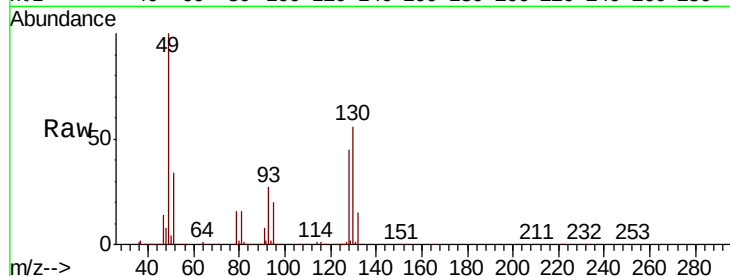




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: VL035053.D
 Acq: 19 May 2020 20:56

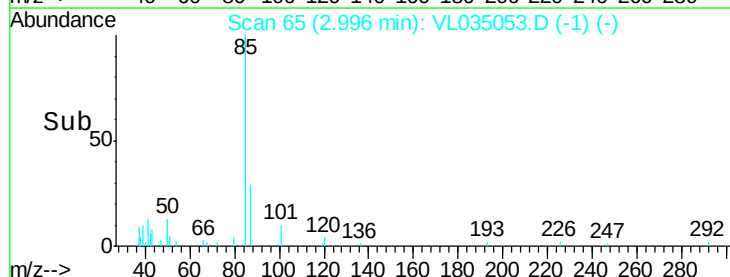
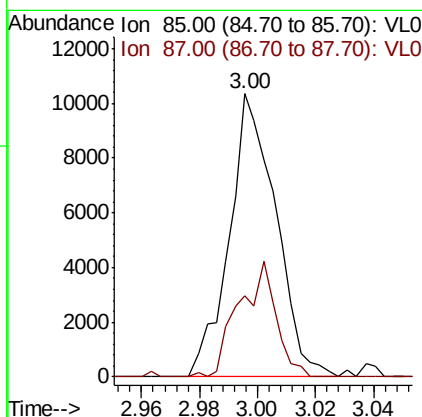
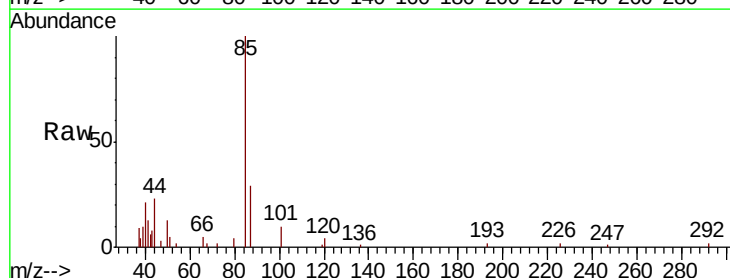
Instrument :
 MSVOA_L
 ClientSampleId :

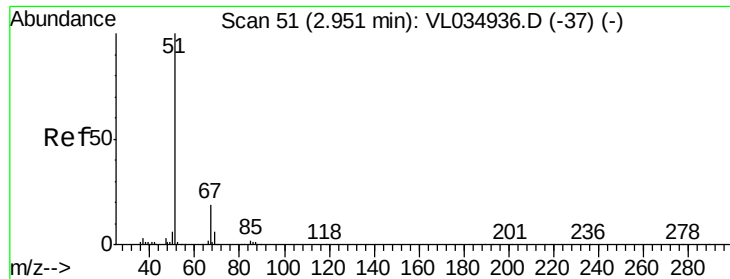
Tot Ion: 49 Resp: 1119538
 Ion Ratio Lower Upper
 49 100
 128 45.9 22.1 66.5
 130 58.5 29.1 87.3



#2
 Dichlorodifluoromethane
 Concen: 0.073 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. -0.02 min
 Lab File: VL035053.D
 Acq: 19 May 2020 20:56

Tgt Ion: 85 Resp: 11526
 Ion Ratio Lower Upper
 85 100
 87 28.7 26.2 39.2

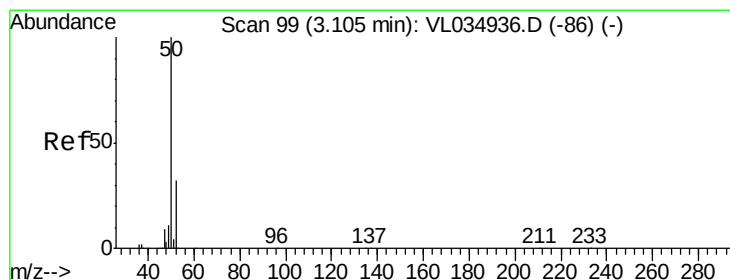
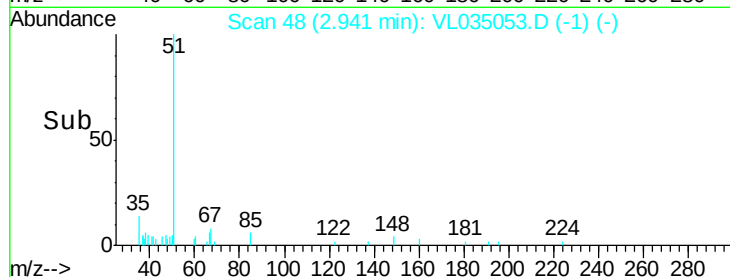
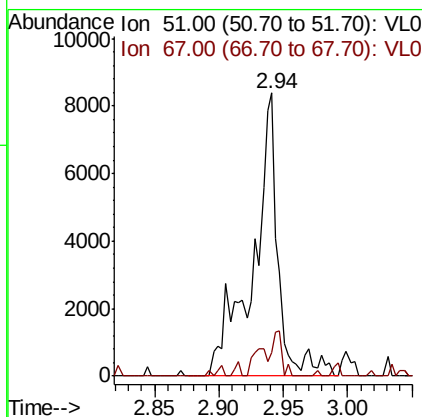
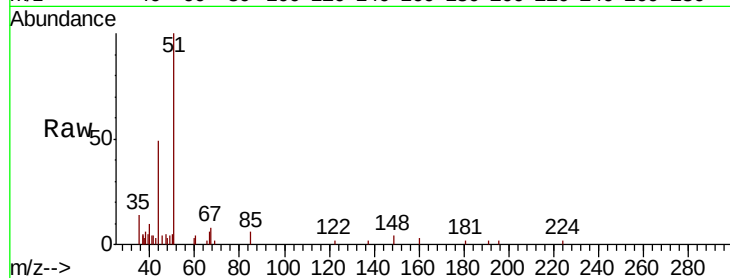




#3
Chlorodifluoromethane
Concen: 0.090 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.01 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

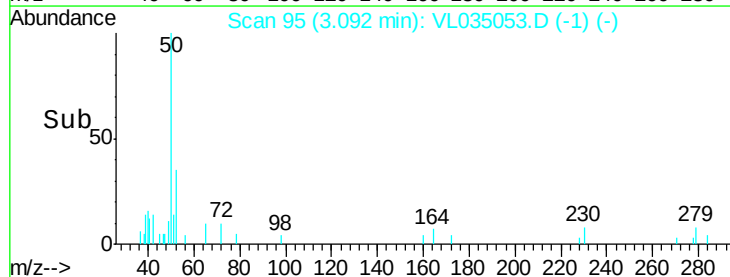
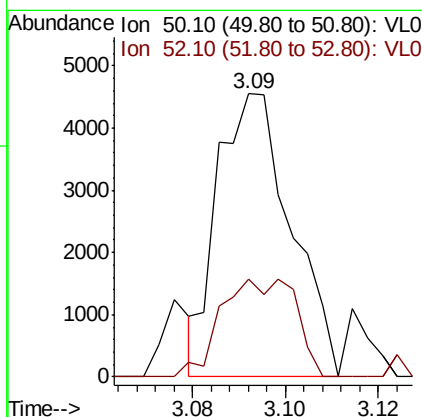
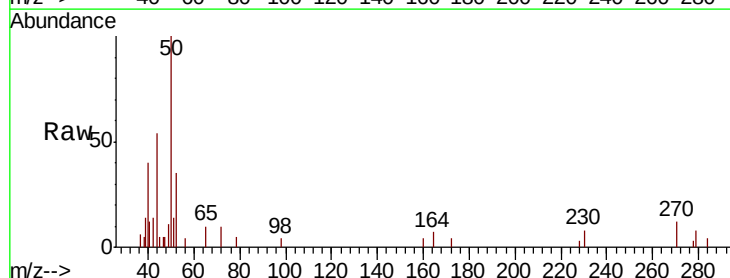
Instrument :
MSVOA_L
ClientSampleId :

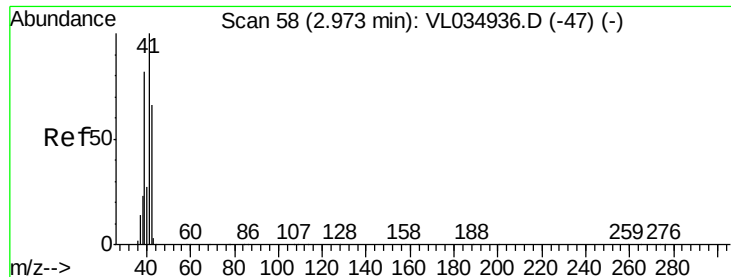
Tot Ion: 51 Resp: 11496
Ion Ratio Lower Upper
51 100
67 13.6 15.0 22.6#



#4
Chloromethane
Concen: 0.068 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.01 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

Tgt Ion: 50 Resp: 4998
Ion Ratio Lower Upper
50 100
52 34.6 25.4 38.2





#9

Propene

Concen: 0.542 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL035053.D

Acq: 19 May 2020 20:56

Instrument :

MSVOA_L

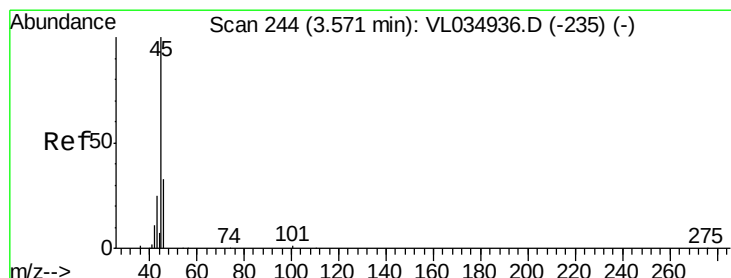
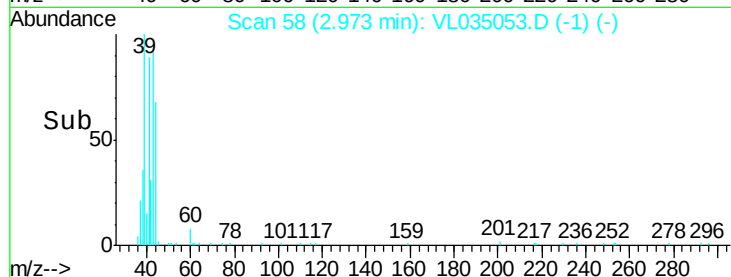
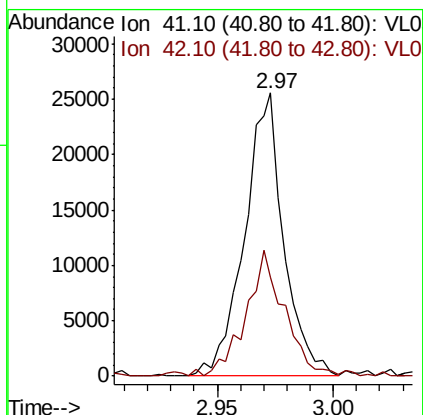
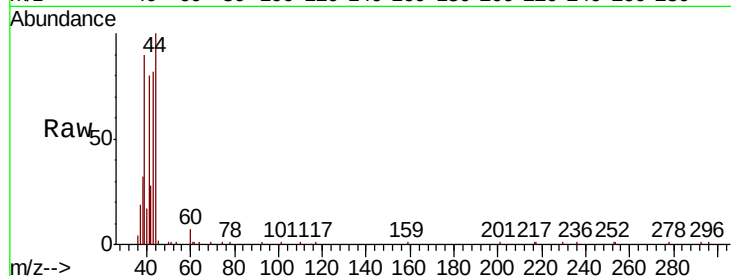
ClientSampleId :

Tot Ion: 41 Resp: 30086

Ion Ratio Lower Upper

41 100

42 45.0 54.5 81.7#



#13

Ethanol

Concen: 29.212 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.02 min

Lab File: VL035053.D

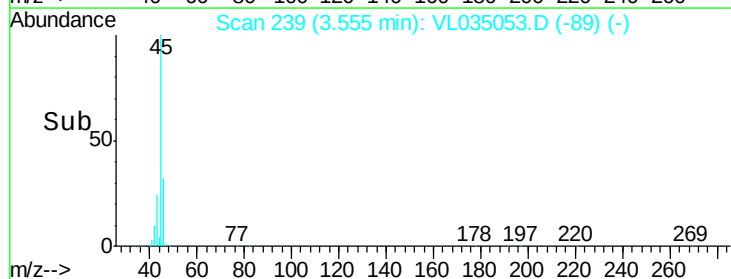
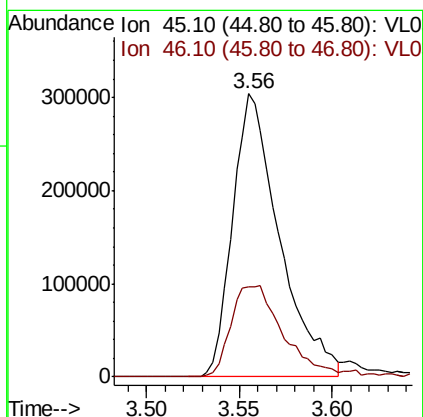
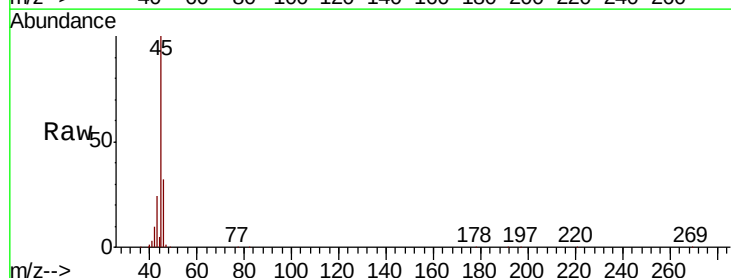
Acq: 19 May 2020 20:56

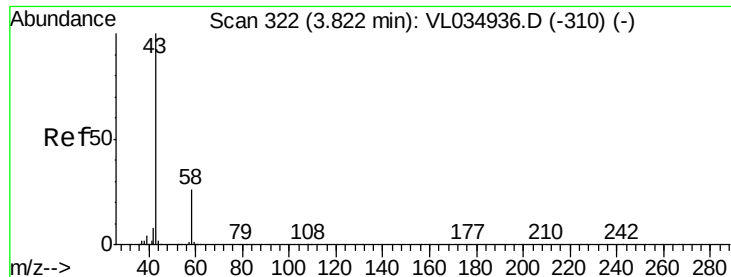
Tgt Ion: 45 Resp: 534657

Ion Ratio Lower Upper

45 100

46 37.5 14.3 57.3





#15

Acetone

Concen: 1.297 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL035053.D

Acq: 19 May 2020 20:56

Instrument :

MSVOA_L

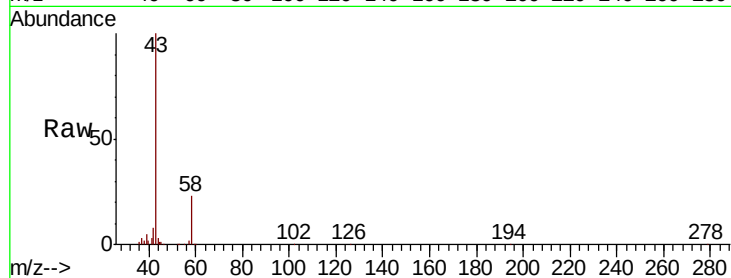
ClientSampleId :

Tot Ion: 43 Resp: 192001

Ion Ratio Lower Upper

43 100

58 29.2 21.7 32.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.81

150000

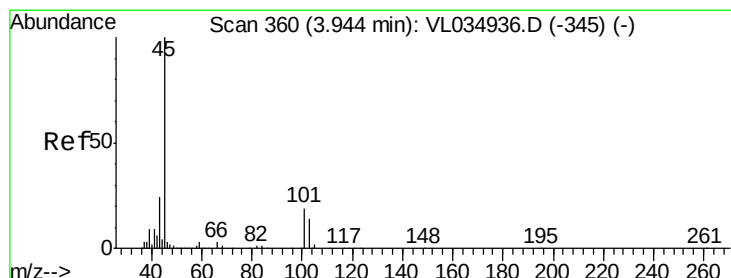
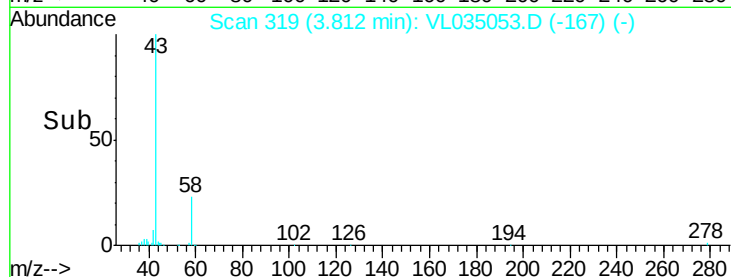
100000

50000

0

3.80 3.85

Time-->



#19

Isopropyl Alcohol

Concen: 0.093 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL035053.D

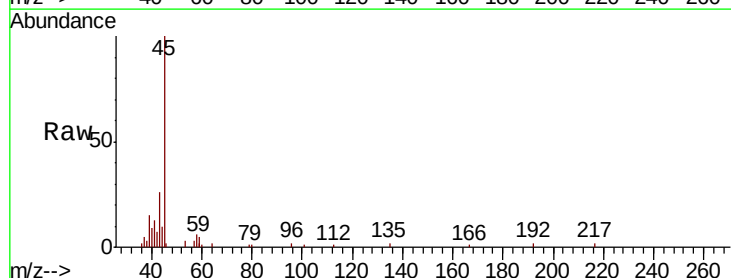
Acq: 19 May 2020 20:56

Tgt Ion: 45 Resp: 9219

Ion Ratio Lower Upper

45 100

58 19.6 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

25000

20000

15000

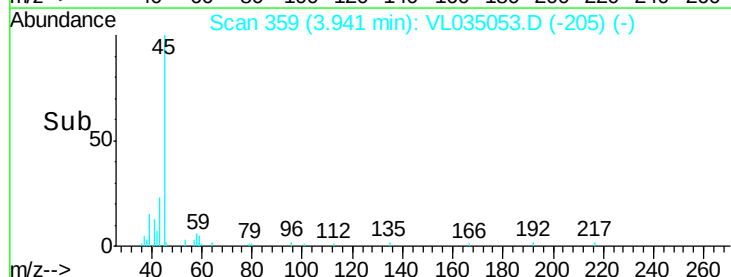
10000

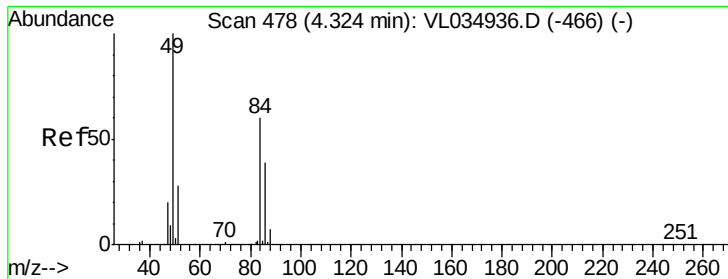
5000

0

3.93 3.94 3.95

Time-->

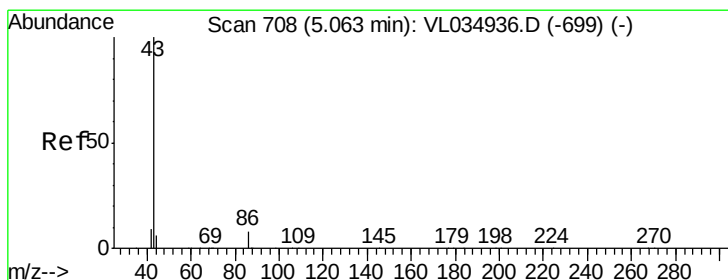
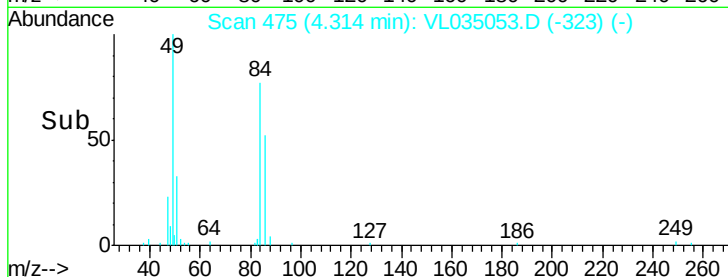
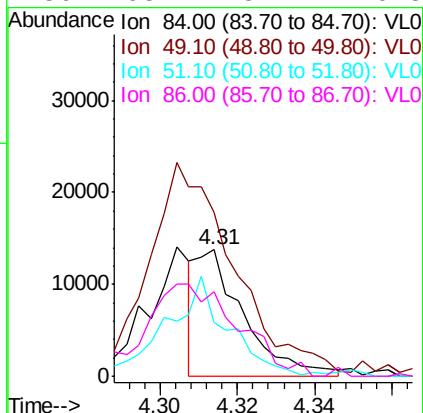
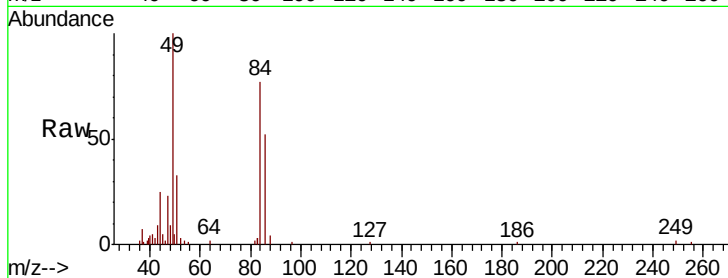




#20
Methylene Chloride
Concen: 0.236 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

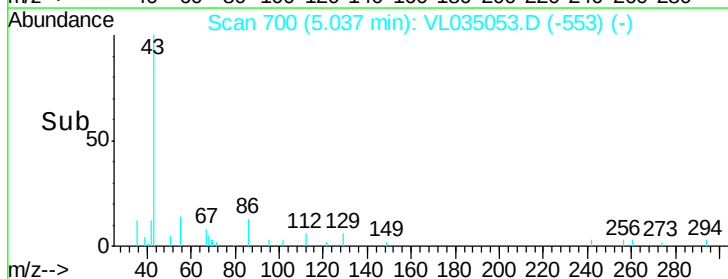
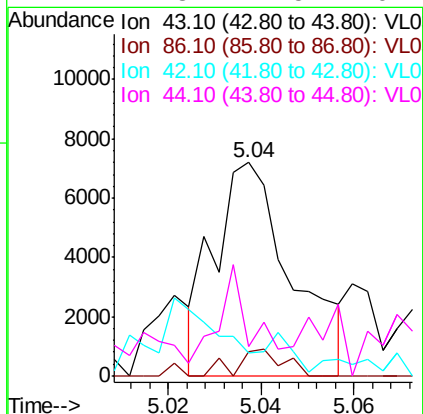
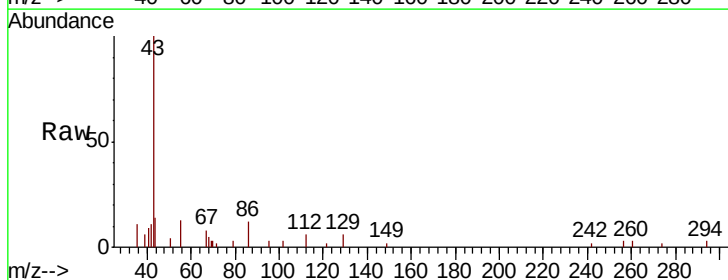
Instrument :
MSVOA_L
ClientSampleId :

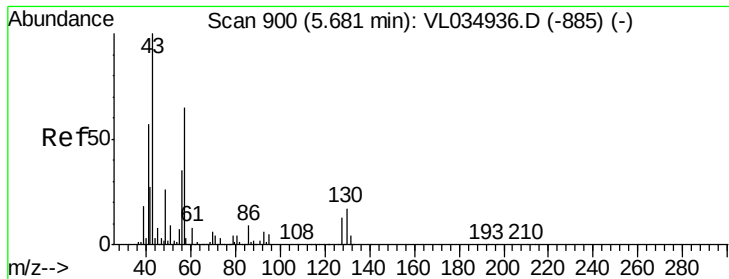
Tot Ion:	84	Resp:	11577
Ion	Ratio	Lower	Upper
84	100		
49	132.5	132.5	198.7
51	41.2	38.4	57.6
86	63.7	51.2	76.8



#23
Vinyl Acetate
Concen: 0.045 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.03 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

Tgt Ion:	43	Resp:	8370
Ion	Ratio	Lower	Upper
43	100		
86	17.1	5.5	8.3#
42	4.2	8.0	12.0#
44	11.8	4.5	6.7#





#26

Hexane

Concen: 0.039 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

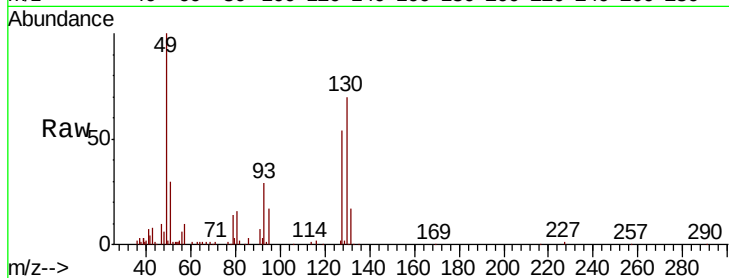
Lab File: VL035053.D

Acq: 19 May 2020 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 4163

Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.7	109.1#
43	337.5	182.1	273.1#
56	0.0	42.2	63.2#

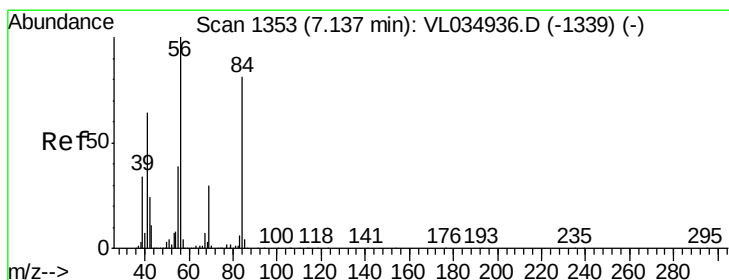
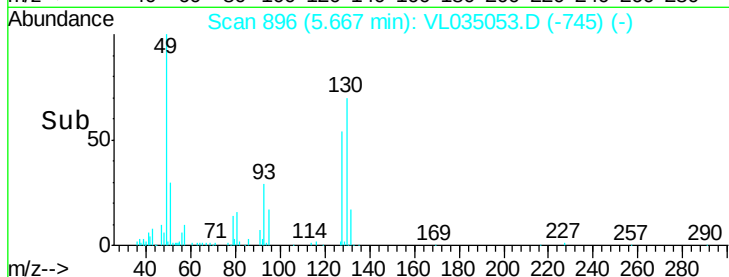
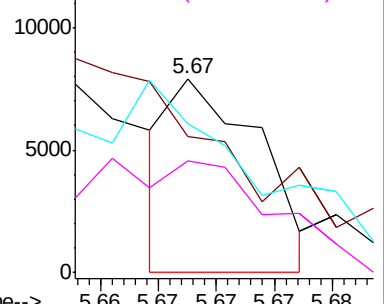


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30

Cyclohexane

Concen: 0.081 ppbv

RT: 7.14 min Scan# 1355

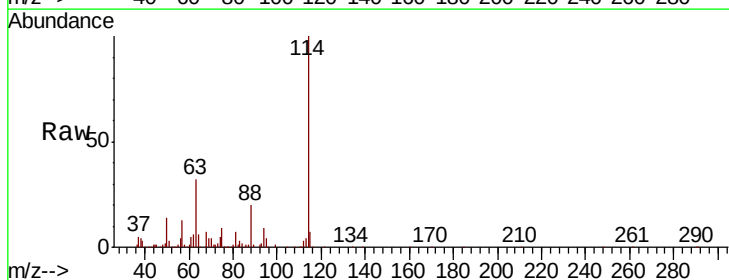
Delta R.T. 0.01 min

Lab File: VL035053.D

Acq: 19 May 2020 20:56

Tgt Ion: 84 Resp: 6772

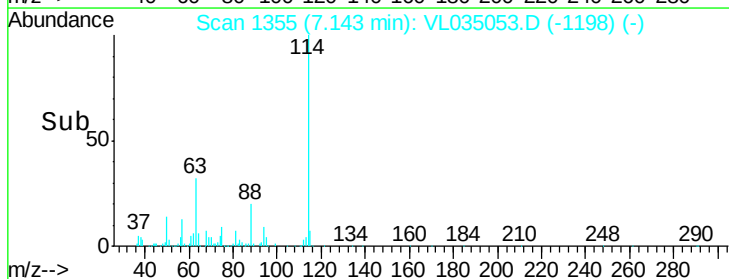
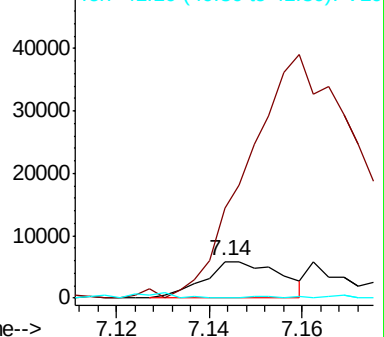
Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.4	167.2#
41	11.3	66.7	100.1#

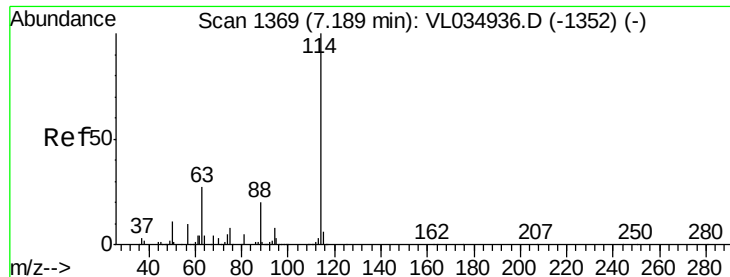


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

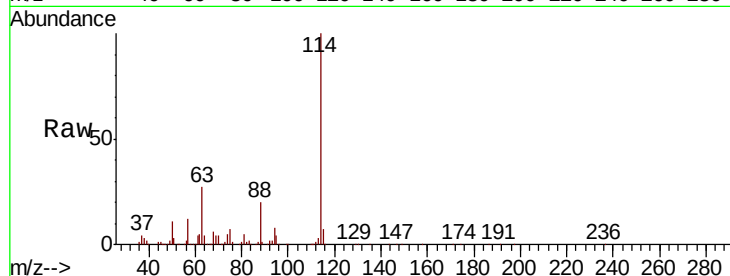




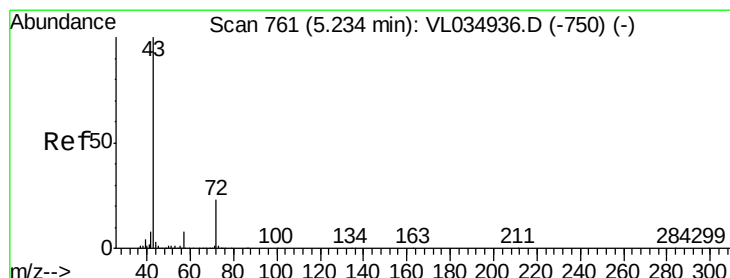
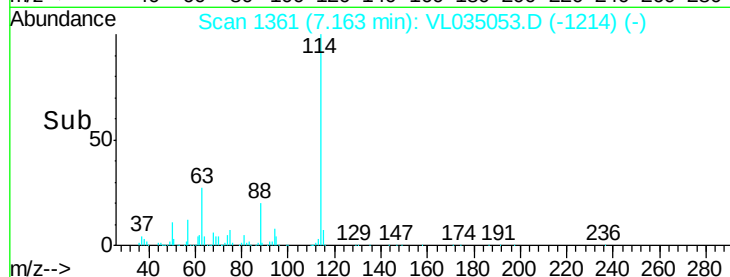
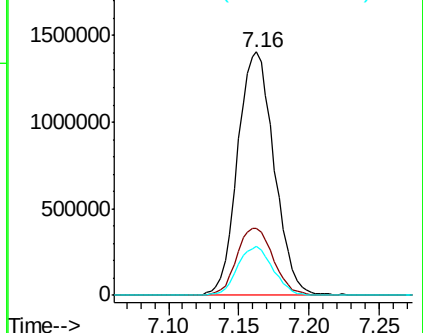
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035053.D
 Acq: 19 May 2020 20:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2550858
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.2 33.4
 88 19.5 15.5 23.3

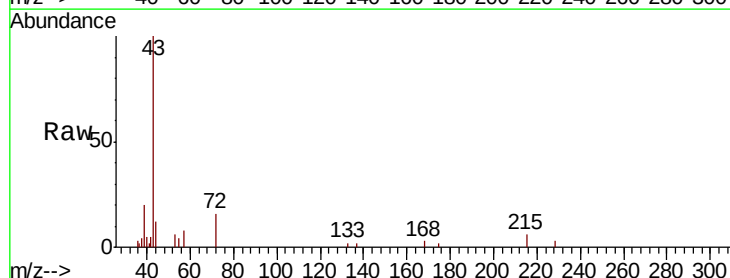


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

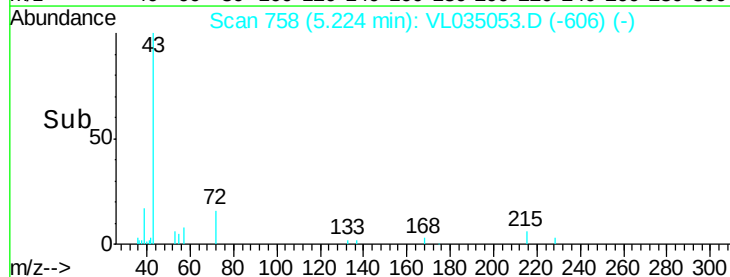
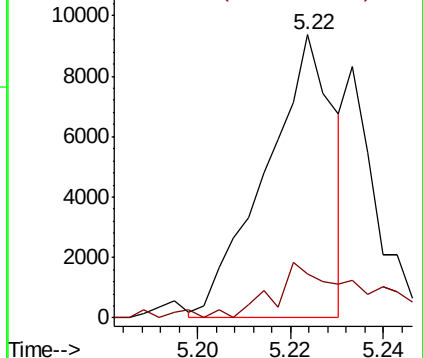


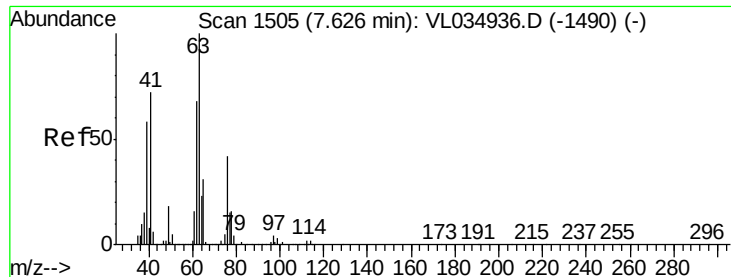
#34
 2-Butanone
 Concen: 0.060 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VL035053.D
 Acq: 19 May 2020 20:56

Tgt Ion: 43 Resp: 9537
 Ion Ratio Lower Upper
 43 100
 72 32.4 18.0 27.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.399 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.47 min

Lab File: VL035053.D

Acq: 19 May 2020 20:56

Instrument :

MSVOA_L

ClientSampleId :

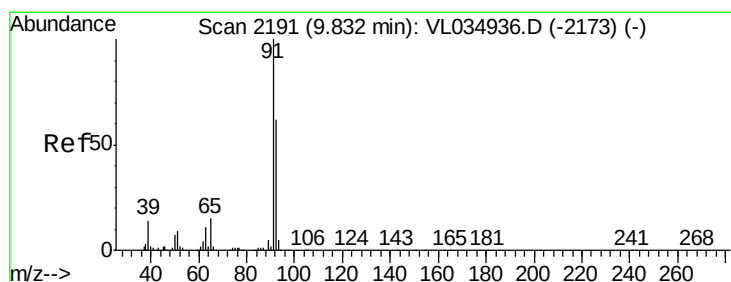
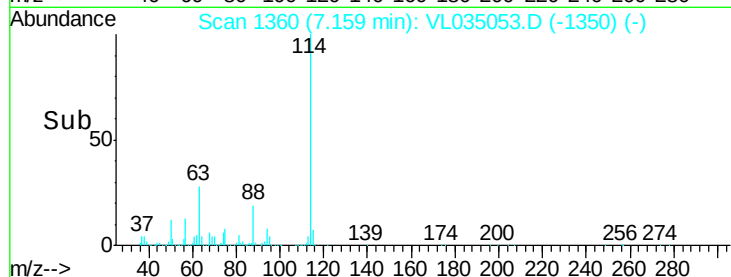
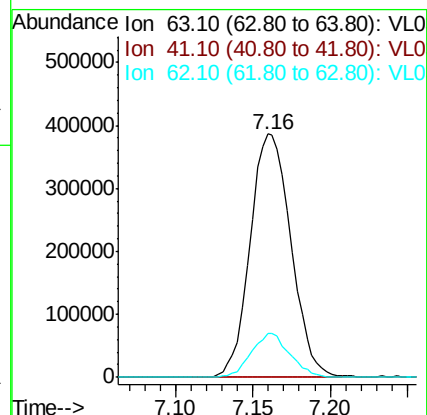
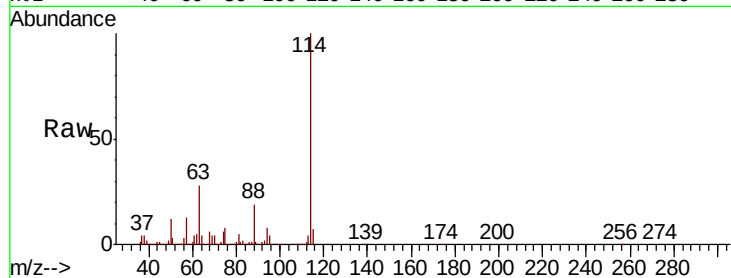
Tot Ion: 63 Resp: 708122

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

62 18.0 54.2 81.2#



#53

Toluene

Concen: 0.033 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.03 min

Lab File: VL035053.D

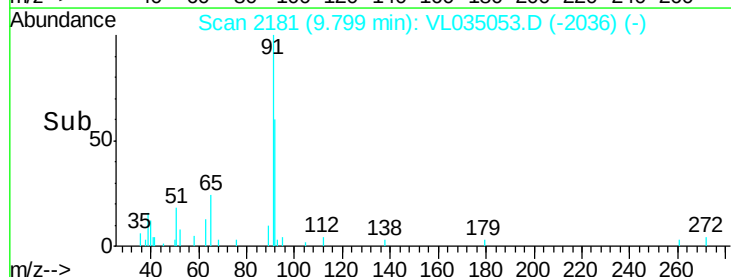
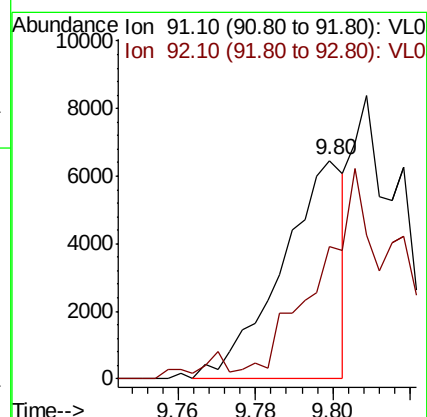
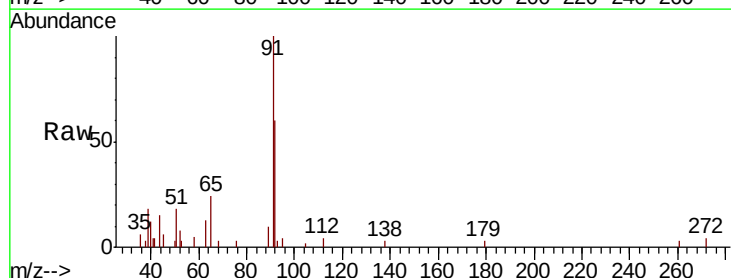
Acq: 19 May 2020 20:56

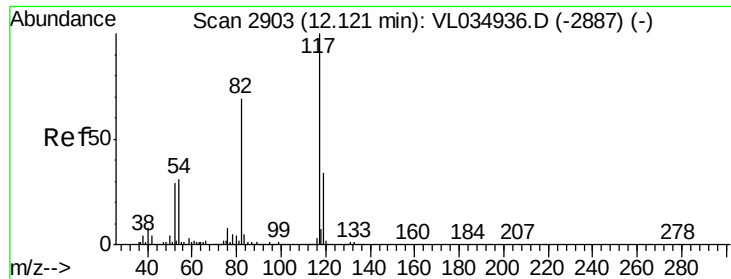
Tgt Ion: 91 Resp: 7275

Ion Ratio Lower Upper

91 100

92 0.0 48.6 73.0#

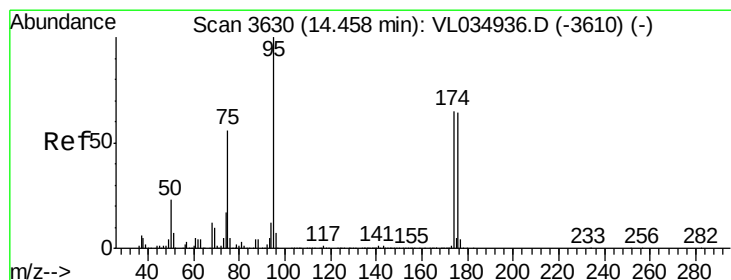
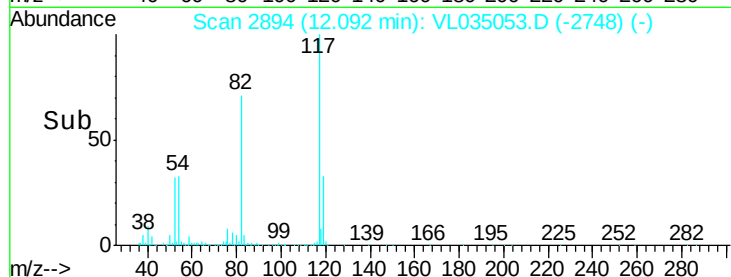
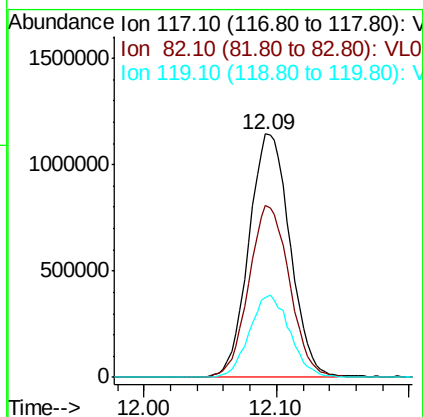
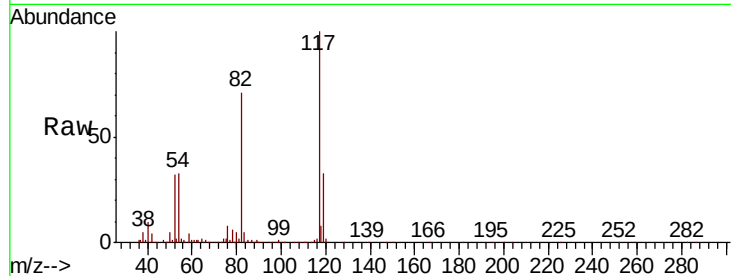




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.03 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2472755
Ion Ratio Lower Upper
117 100
82 70.5 53.1 79.7
119 33.6 26.7 40.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.420 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.03 min
Lab File: VL035053.D
Acq: 19 May 2020 20:56

Tgt Ion: 95 Resp: 2085654
Ion Ratio Lower Upper
95 100
174 64.0 51.5 77.3
175 4.8 3.8 5.8

