

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031921\
 Data File : VL036456.D
 Acq On : 19 Mar 2021 21:22
 Operator :
 Sample : VIBLK
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 20 00:42:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 03 14:18:24 2021
 QLast Update : Wed Mar 03 14:18:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1610164	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	3497411	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	3229677	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	1217291	4.58	ppbv	-0.05	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	45.80%#	

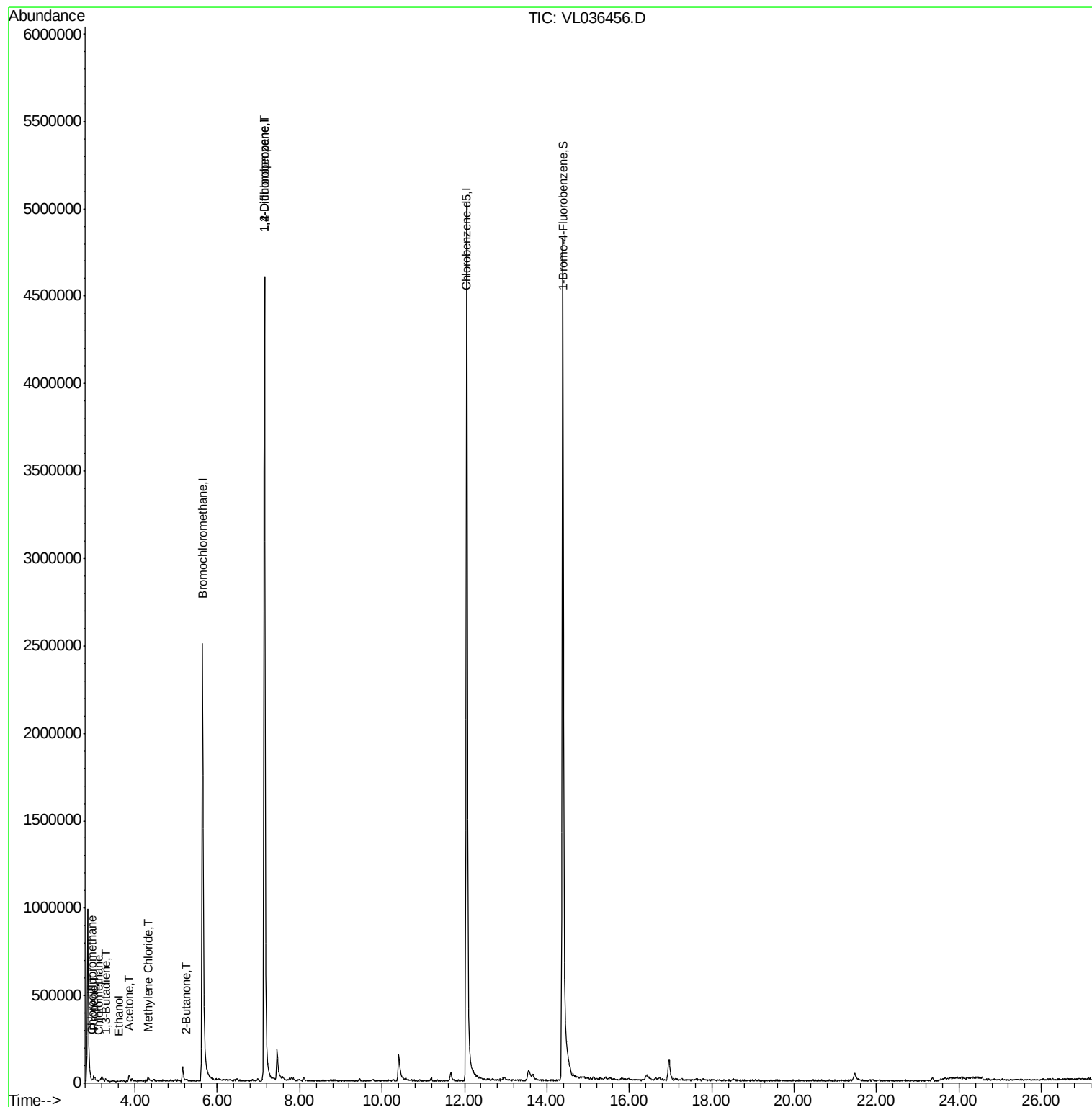
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	6378	0.033	ppbv #	86
4) Chloromethane	3.12	50	2216	0.024	ppbv	99
9) Propene	3.00	41	5093	0.061	ppbv #	25
13) Ethanol	3.59	45	356	0.028	ppbv	89
15) Acetone	3.85	43	21760	0.118	ppbv #	49
16) 1,3-Butadiene	3.30	39	2806	0.032	ppbv #	74
20) Methylene Chloride	4.32	84	4691	0.076	ppbv #	59
34) 2-Butanone	5.23	43	5238	0.025	ppbv #	5
39) 1,2-Dichloropropane	7.14	63	996647	8.636	ppbv #	21

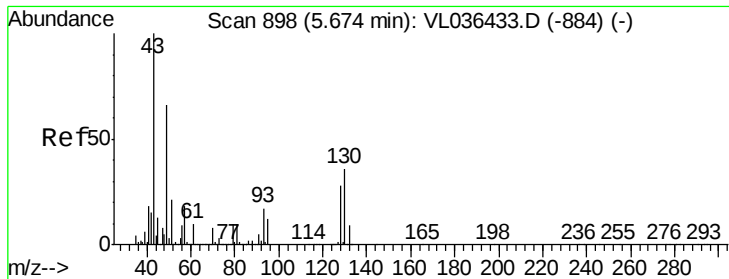
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030321AIR.M
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QLast Update : Wed Mar 03 14:18:24 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.04 min

Lab File: VL036456.D

Acq: 19 Mar 2021 21:22

Instrument :

MSVOA_L

ClientSampled :

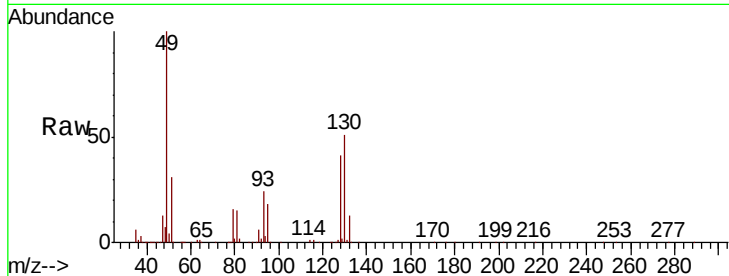
Tot Ion: 49 Resp: 1610164

Ion Ratio Lower Upper

49 100

128 43.0 22.4 67.2

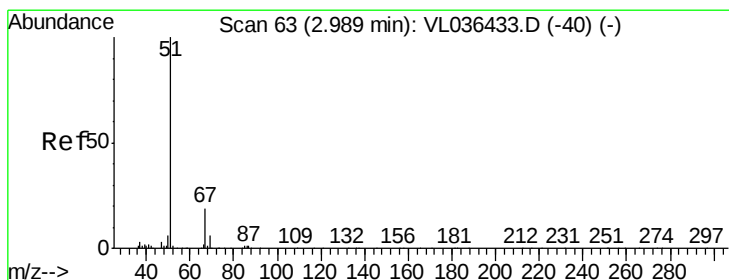
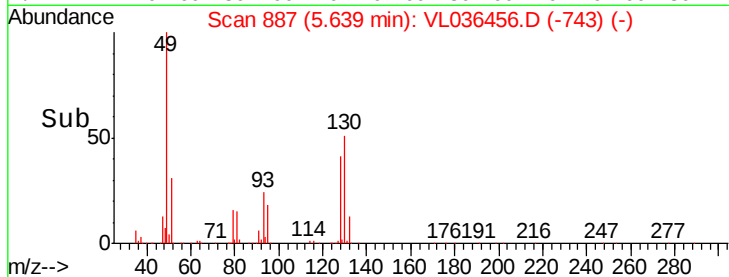
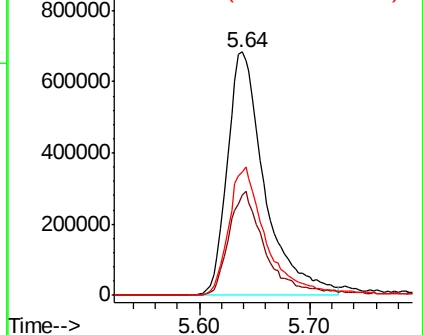
130 54.3 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL036456.D

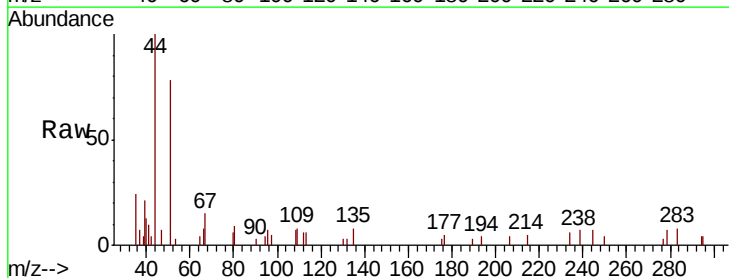
Acq: 19 Mar 2021 21:22

Tgt Ion: 51 Resp: 6378

Ion Ratio Lower Upper

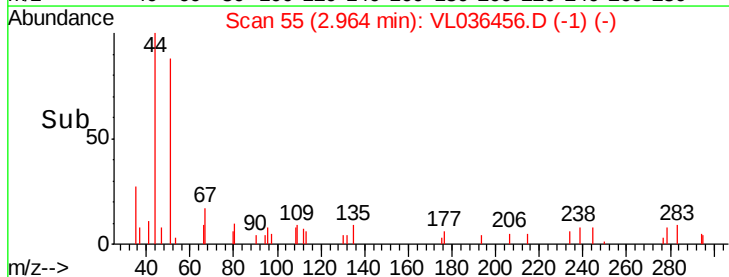
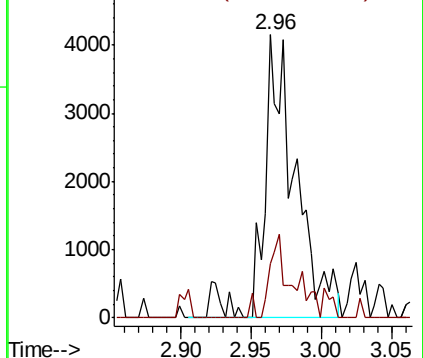
51 100

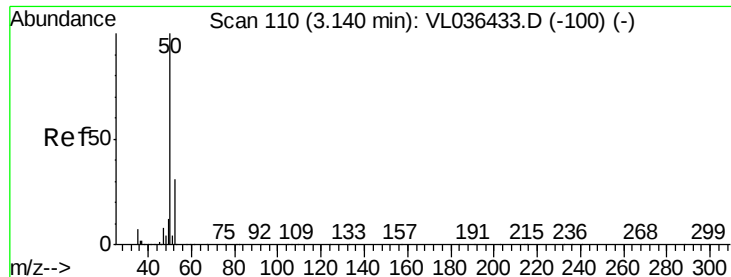
67 24.7 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.024 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL036456.D

Acq: 19 Mar 2021 21:22

Instrument :

MSVOA_L

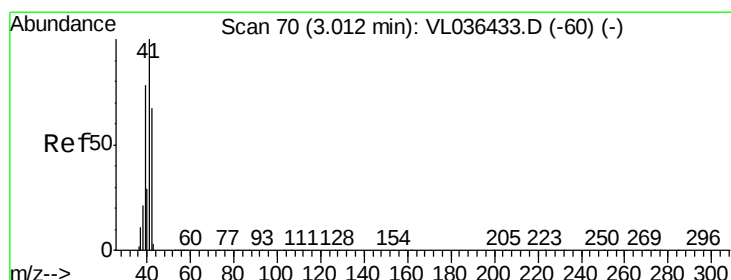
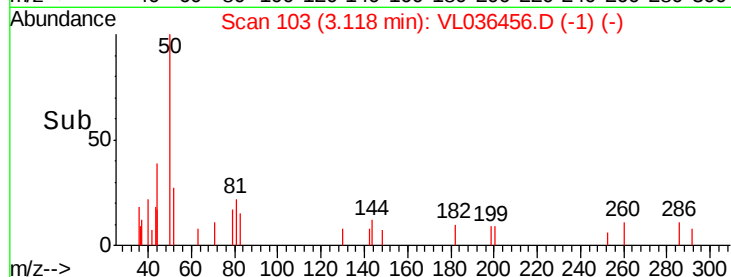
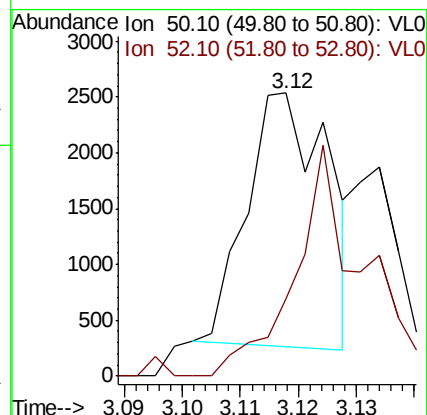
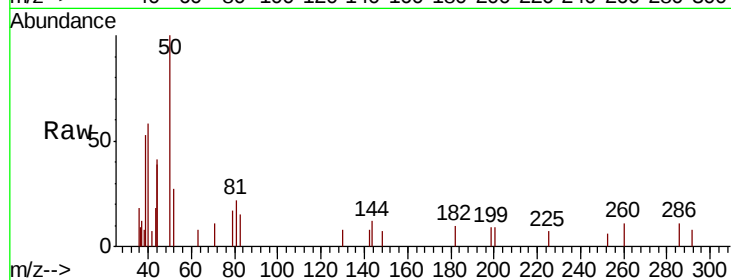
ClientSampleId :

Tot Ion: 50 Resp: 2216

Ion Ratio Lower Upper

50 100

52 31.4 24.6 36.8



#9

Propene

Concen: 0.061 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036456.D

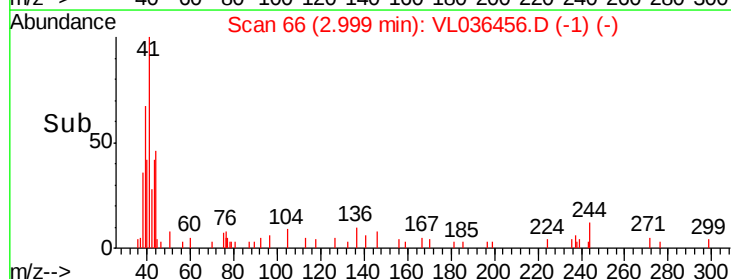
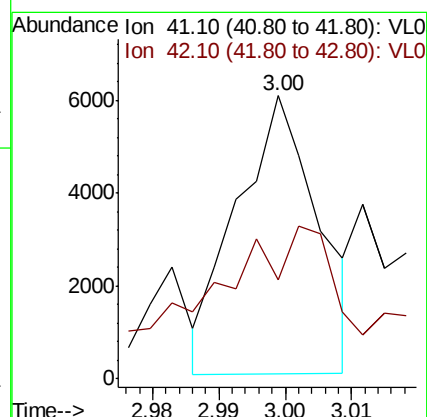
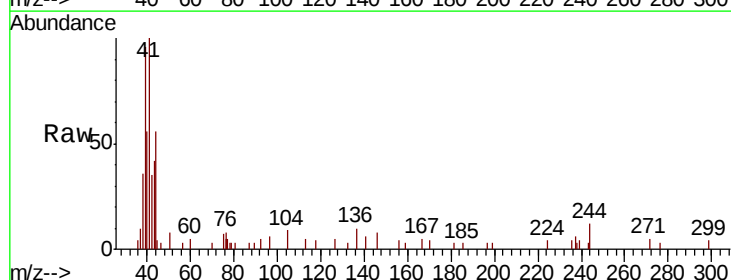
Acq: 19 Mar 2021 21:22

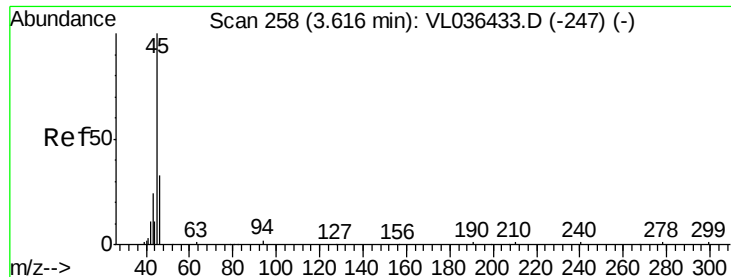
Tgt Ion: 41 Resp: 5093

Ion Ratio Lower Upper

41 100

42 131.6 56.2 84.4#

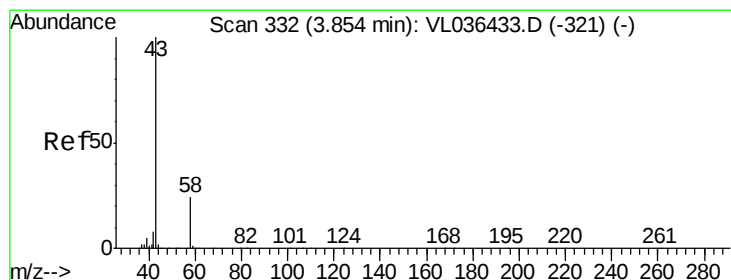
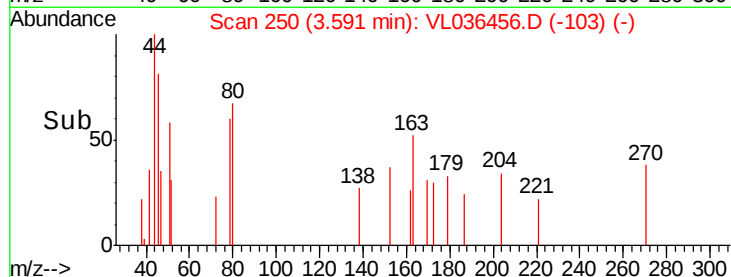
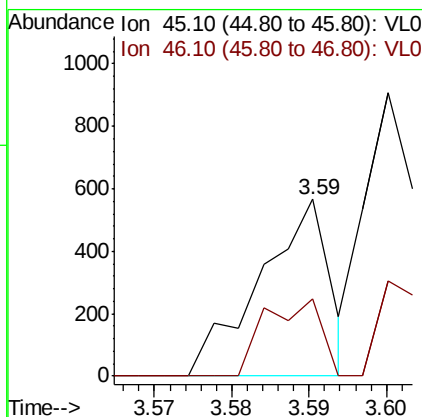
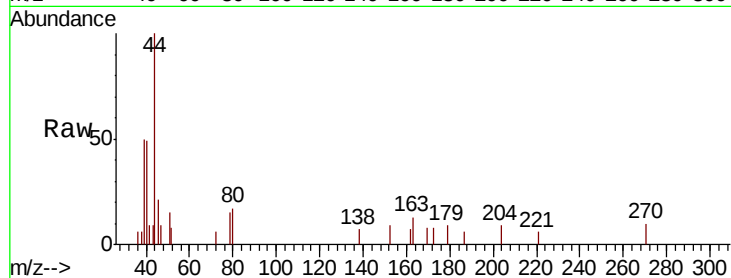




#13
Ethanol
Concen: 0.028 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.03 min
Lab File: VL036456.D
Acq: 19 Mar 2021 21:22

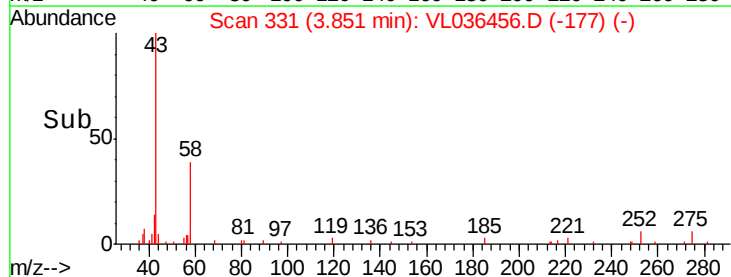
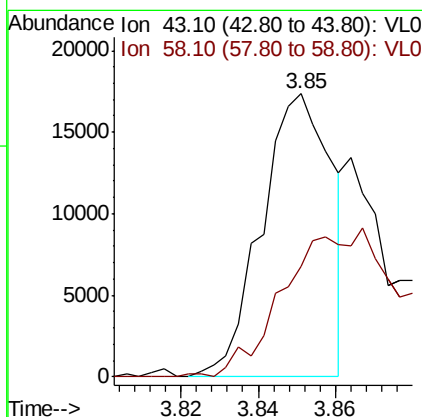
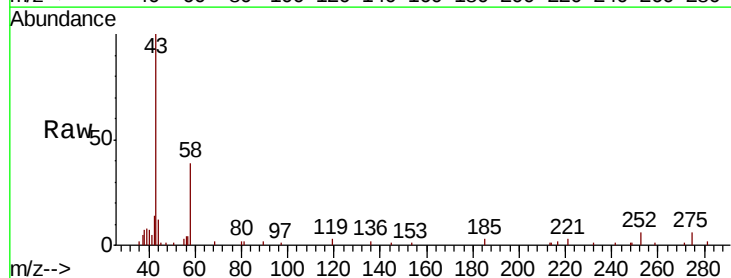
Instrument :
MSVOA_L
ClientSampleId :

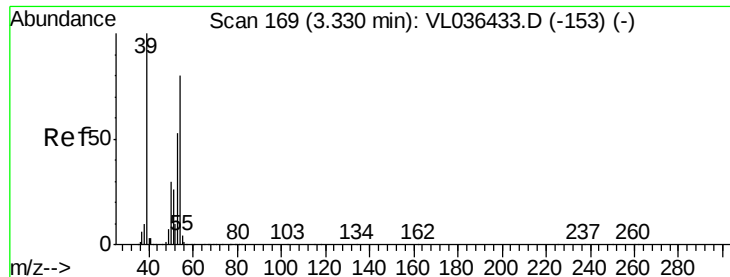
Tot Ion: 45 Resp: 356
Ion Ratio Lower Upper
45 100
46 34.8 16.8 67.4



#15
Acetone
Concen: 0.118 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036456.D
Acq: 19 Mar 2021 21:22

Tgt Ion: 43 Resp: 21760
Ion Ratio Lower Upper
43 100
58 0.0 21.0 31.6#

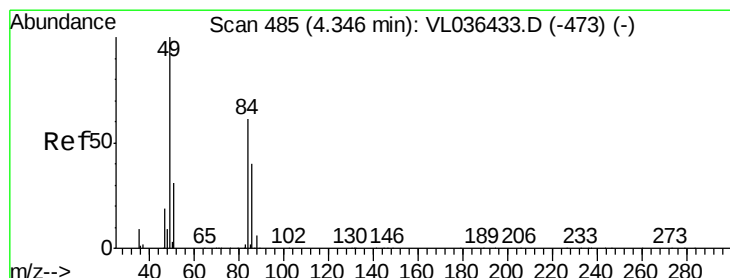
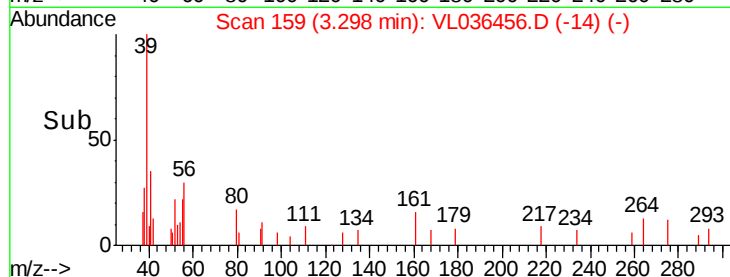
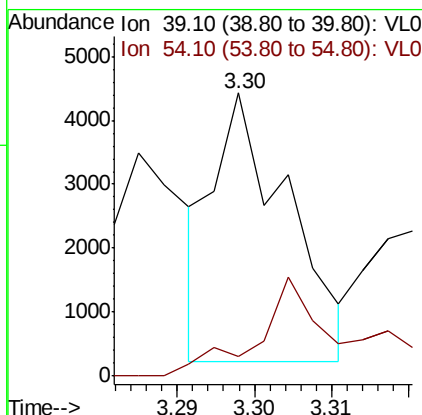
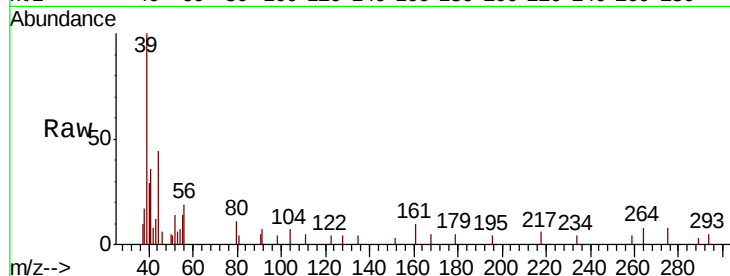




#16
 1,3-Butadiene
 Concen: 0.032 ppbv
 RT: 3.30 min Scan# 159
 Delta R.T. -0.03 min
 Lab File: VL036456.D
 Acq: 19 Mar 2021 21:22

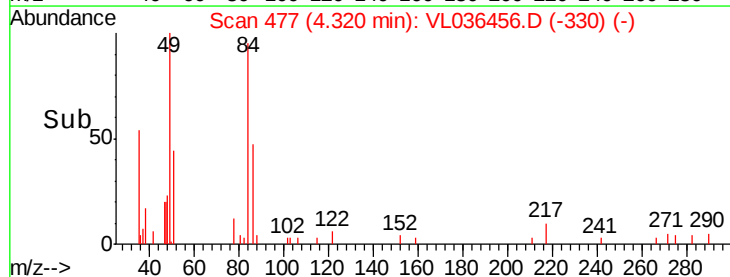
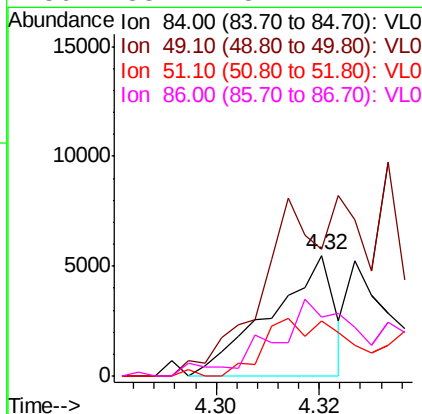
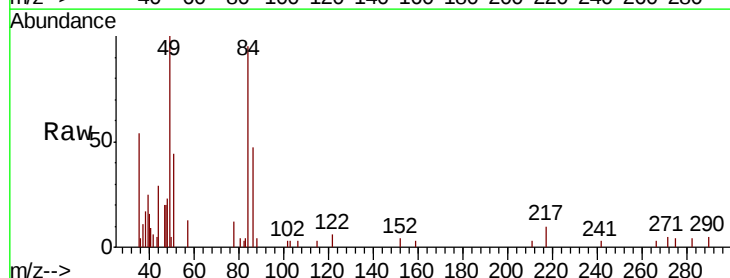
Instrument :
 MSVOA_L
 ClientSampleId :

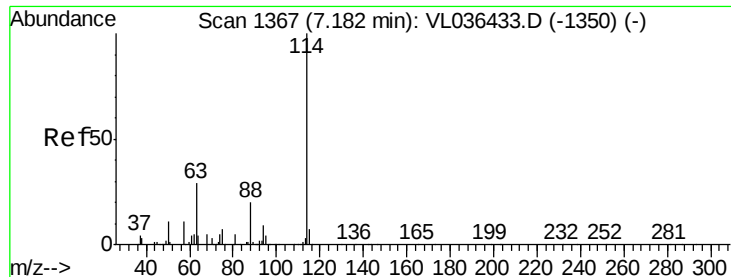
Tot Ion: 39 Resp: 2806
 Ion Ratio Lower Upper
 39 100
 54 57.6 64.5 96.7#



#20
 Methylene Chloride
 Concen: 0.076 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.03 min
 Lab File: VL036456.D
 Acq: 19 Mar 2021 21:22

Tgt Ion: 84 Resp: 4691
 Ion Ratio Lower Upper
 84 100
 49 91.6 130.2 195.2#
 51 41.0 40.5 60.7
 86 38.7 51.4 77.2#

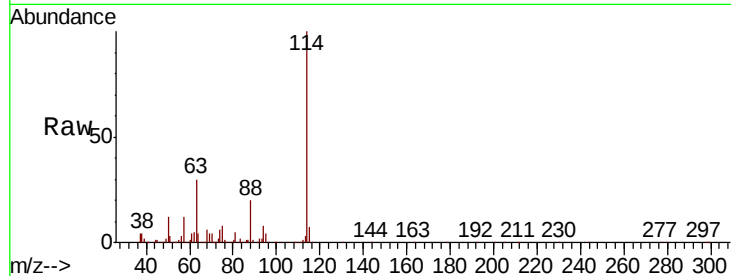




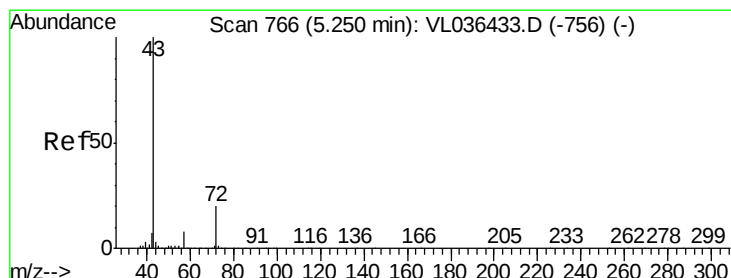
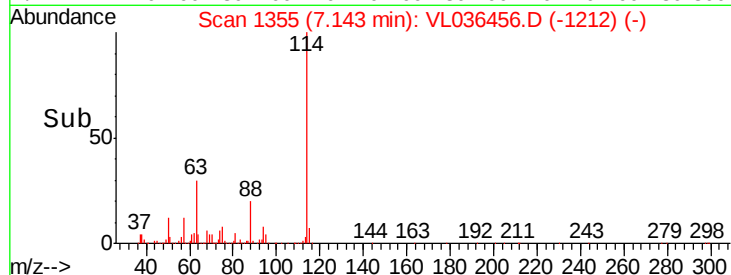
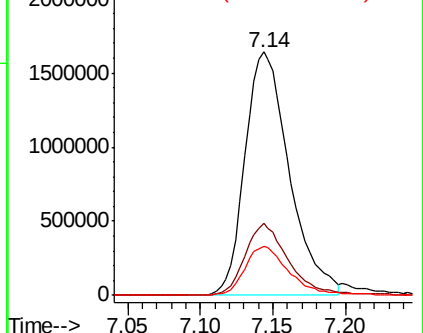
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.04 min
 Lab File: VL036456.D
 Acq: 19 Mar 2021 21:22

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3497411
 Ion Ratio Lower Upper
 114 100
 63 29.5 23.3 34.9
 88 20.3 15.6 23.4

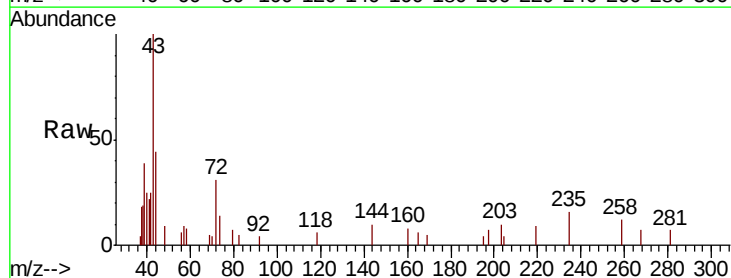


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

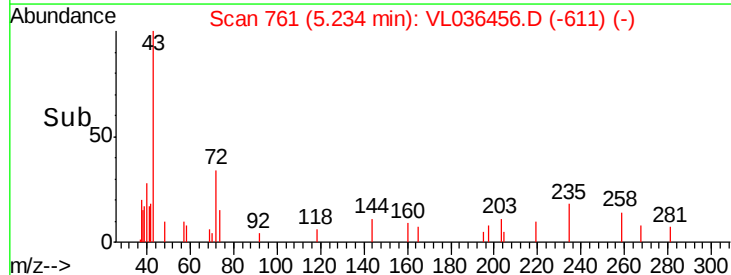
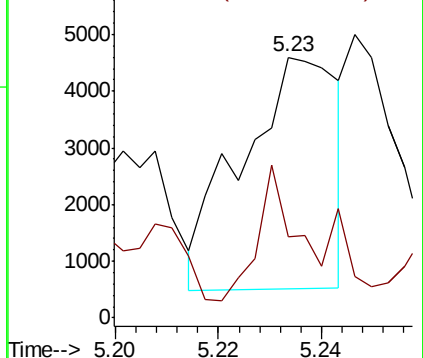


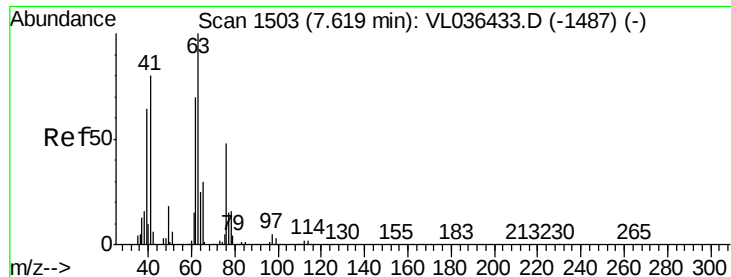
#34
 2-Butanone
 Concen: 0.025 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.02 min
 Lab File: VL036456.D
 Acq: 19 Mar 2021 21:22

Tgt Ion: 43 Resp: 5238
 Ion Ratio Lower Upper
 43 100
 72 65.3 16.7 25.1#



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





#39

1,2-Dichloropropane

Concen: 8.636 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.48 min

Lab File: VL036456.D

Acq: 19 Mar 2021 21:22

Instrument :

MSVOA_L

ClientSampleId :

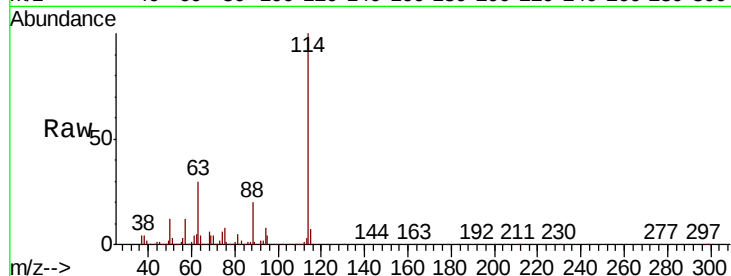
Tot Ion: 63 Resp: 996647

Ion Ratio Lower Upper

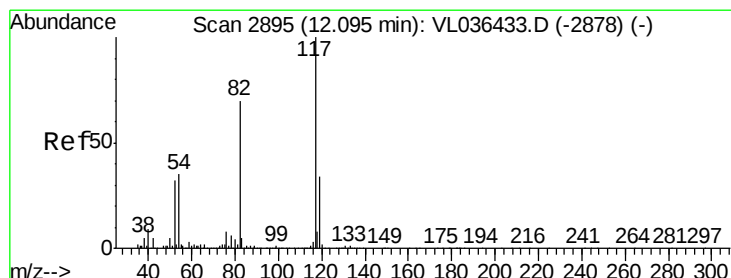
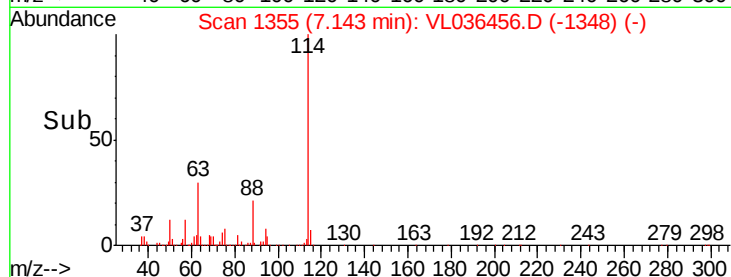
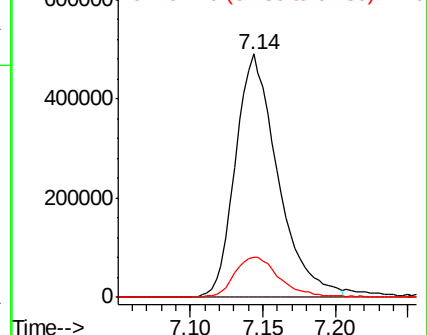
63 100

41 0.2 64.4 96.6#

62 16.4 55.7 83.5#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.04 min

Lab File: VL036456.D

Acq: 19 Mar 2021 21:22

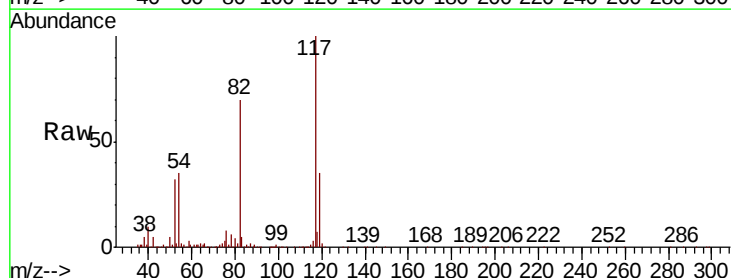
Tgt Ion: 117 Resp: 3229677

Ion Ratio Lower Upper

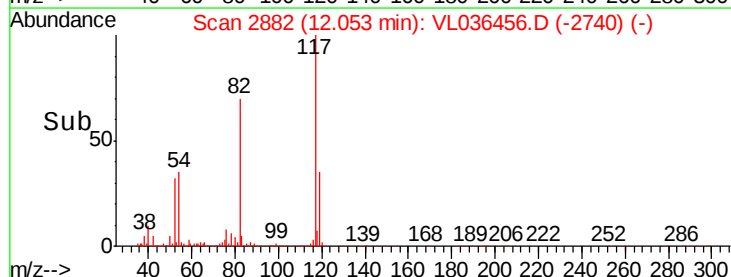
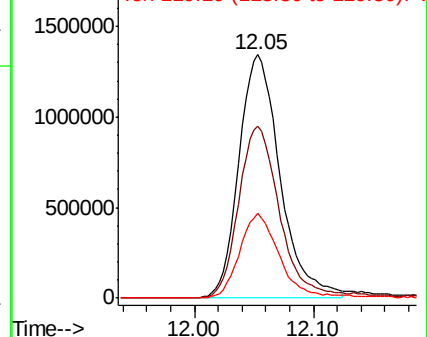
117 100

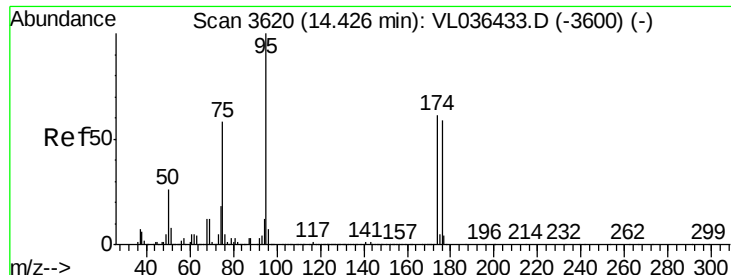
82 73.0 56.5 84.7

119 34.6 27.0 40.4



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: 4.583 ppbv

RT: 14.38 min Scan# 3606

Delta R.T. -0.05 min

Lab File: VL036456.D

Acq: 19 Mar 2021 21:22

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ClientSampleId :

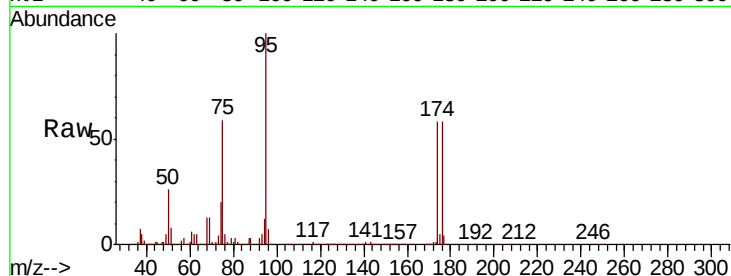
Tot Ion: 95 Resp: 1217291

Ion Ratio Lower Upper

95 100

174 0.0 51.0 76.4#

175 10.0 3.8 5.6#



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

