

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035066.D
 Acq On : 20 May 2020 5:25
 Operator : SY/AP
 Sample : L2683-09DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 08:12:59 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	1123789	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2530122	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2424579	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2028294	10.33	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

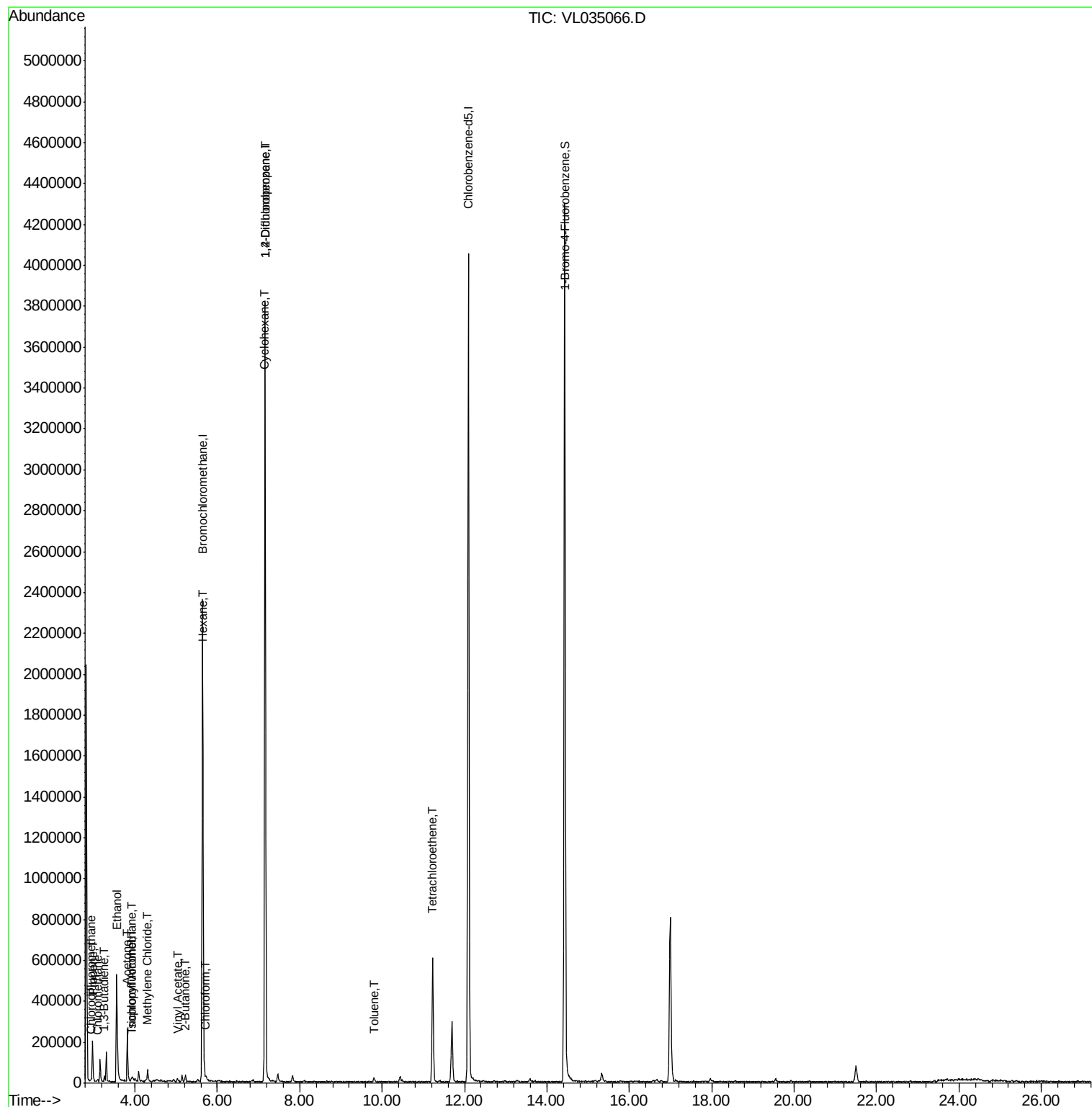
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.93	51	11919	0.093	ppbv 99
4) Chloromethane	3.10	50	2667	0.036	ppbv 91
9) Propene	2.97	41	43449	0.780	ppbv # 74
11) Trichlorofluoromethane	3.91	101	5285	0.032	ppbv # 68
13) Ethanol	3.56	45	535461	29.146	ppbv 99
15) Acetone	3.81	43	229236	1.543	ppbv 97
16) 1,3-Butadiene	3.26	39	3572	0.056	ppbv # 8
19) Isopropyl Alcohol	3.93	45	16029	0.162	ppbv # 70
20) Methylene Chloride	4.30	84	14705	0.299	ppbv # 60
23) Vinyl Acetate	5.04	43	6916	0.037	ppbv # 81
26) Hexane	5.66	57	3319	0.031	ppbv # 58
29) Chloroform	5.73	83	7991	0.045	ppbv # 79
30) Cyclohexane	7.14	84	3221	0.039	ppbv # 1
34) 2-Butanone	5.22	43	22045	0.140	ppbv # 53
39) 1,2-Dichloropropane	7.16	63	705176	8.433	ppbv # 24
52) Tetrachloroethene	11.23	164	82500	1.112	ppbv 96
53) Toluene	9.80	91	14543	0.066	ppbv 93

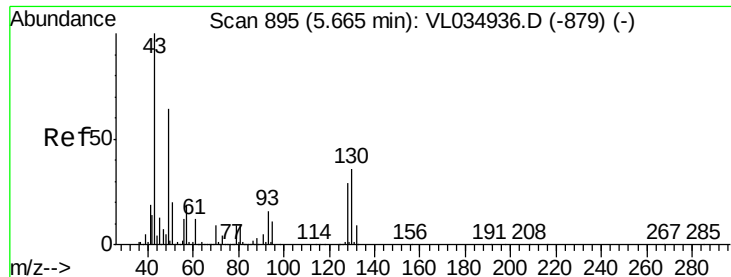
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

ClientSampleId :

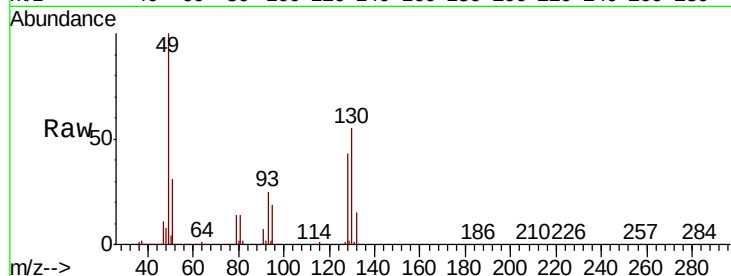
Tot Ion: 49 Resp: 1123789

Ion Ratio Lower Upper

49 100

128 45.2 22.1 66.5

130 57.9 29.1 87.3



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

5.64

800000

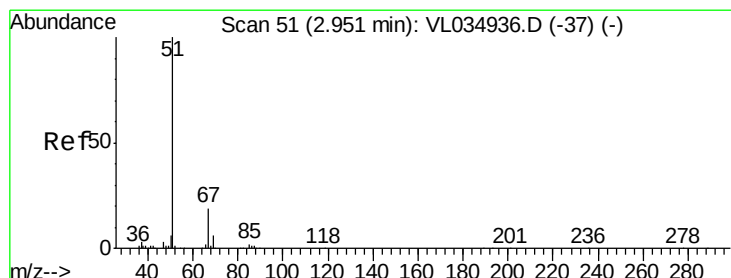
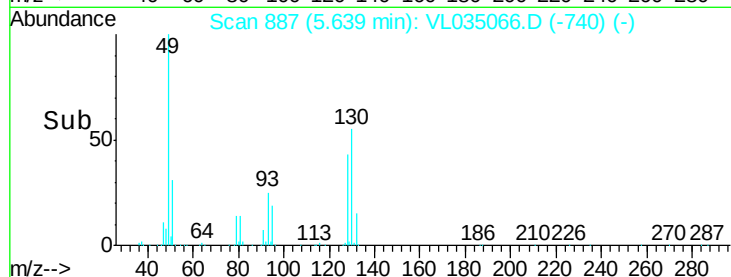
600000

400000

200000

0

Time-->



#3

Chlorodifluoromethane

Concen: 0.093 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035066.D

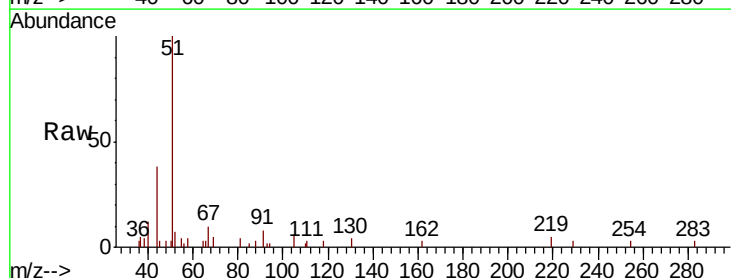
Acq: 20 May 2020 5:25

Tgt Ion: 51 Resp: 11919

Ion Ratio Lower Upper

51 100

67 18.3 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

8000

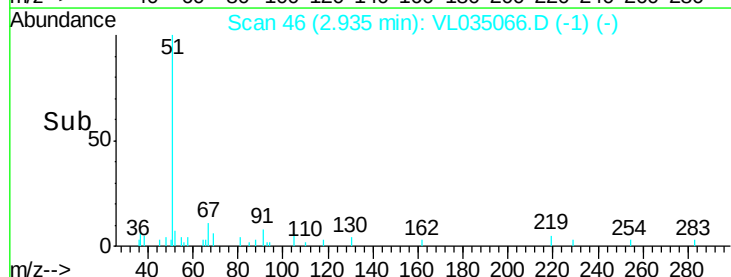
6000

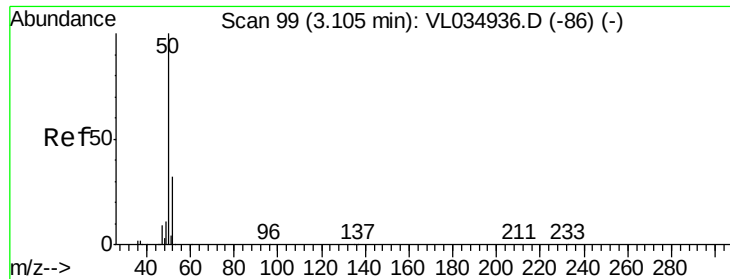
4000

2000

0

Time-->





#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

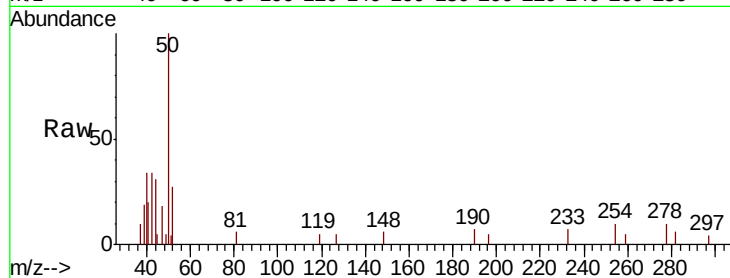
ClientSampleId :

Tot Ion: 50 Resp: 2667

Ion Ratio Lower Upper

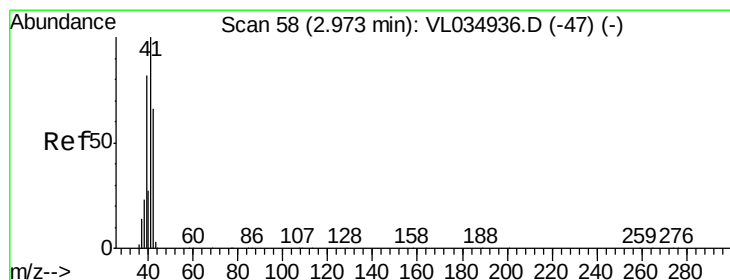
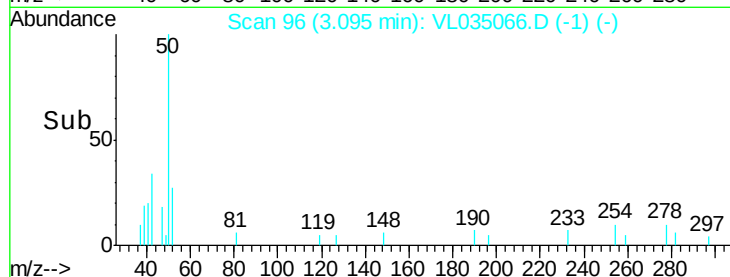
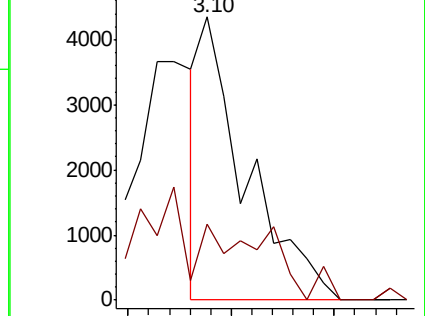
50 100

52 26.8 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.780 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035066.D

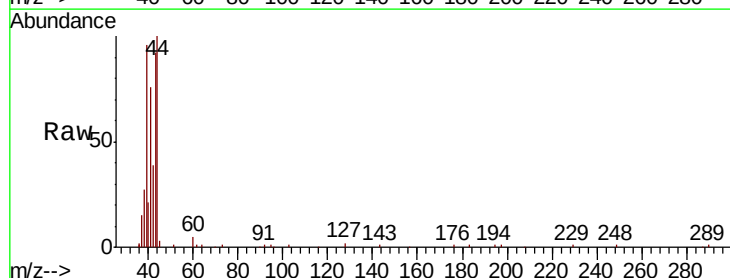
Acq: 20 May 2020 5:25

Tgt Ion: 41 Resp: 43449

Ion Ratio Lower Upper

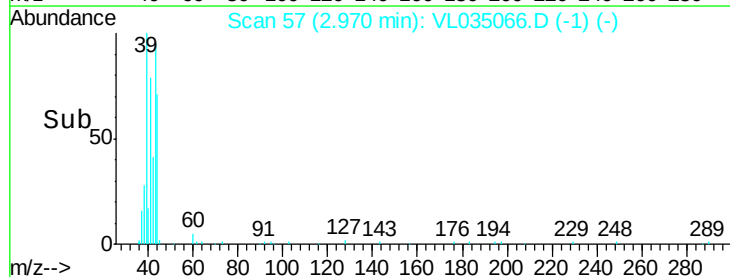
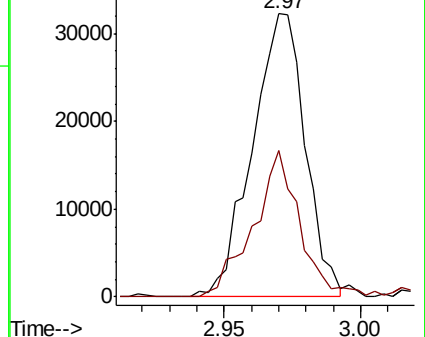
41 100

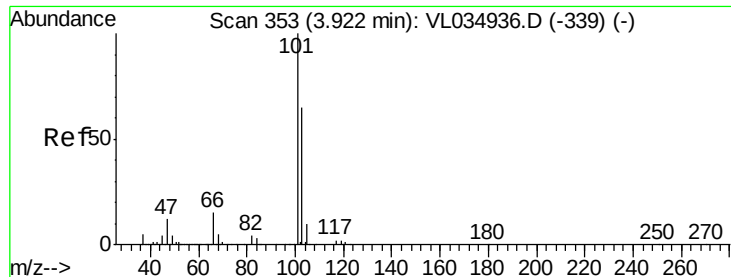
42 46.8 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

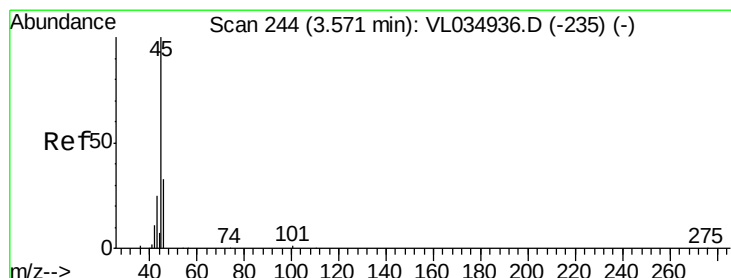
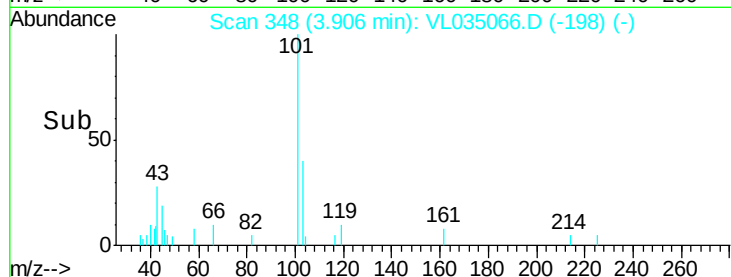
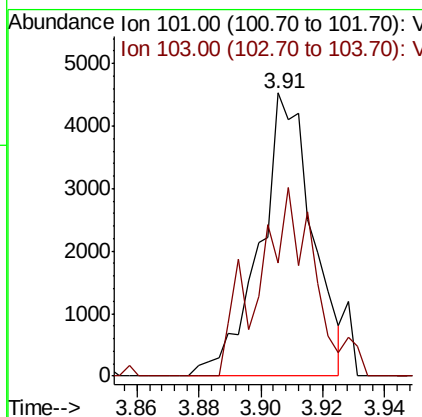
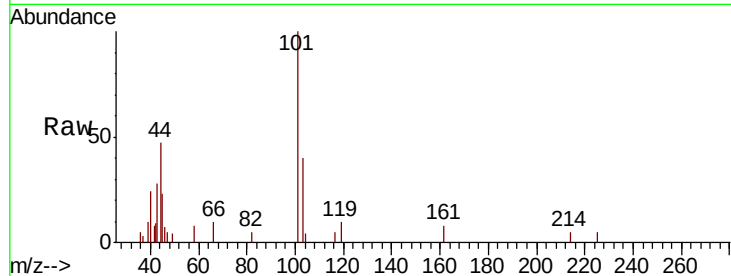




#11
 Trichlorofluoromethane
 Concen: 0.032 ppbv
 RT: 3.91 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

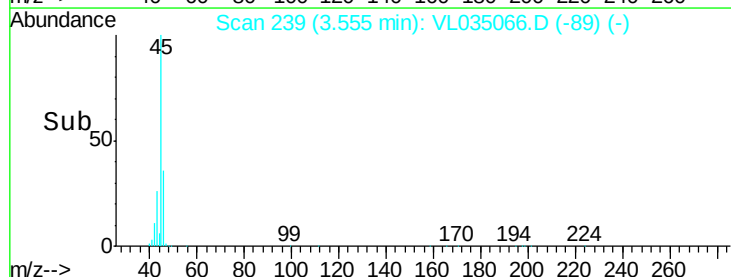
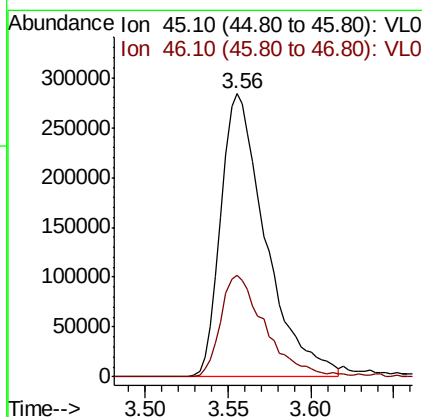
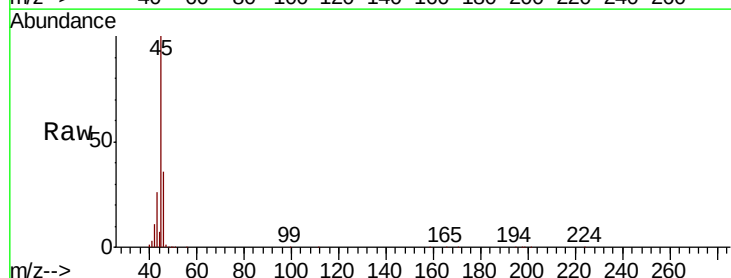
Instrument :
 MSVOA_L
 ClientSampleId :

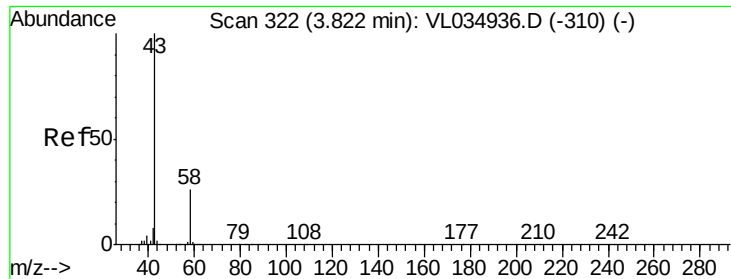
Tot Ion:101 Resp: 5285
 Ion Ratio Lower Upper
 101 100
 103 40.0 51.9 77.9#



#13
 Ethanol
 Concen: 29.146 ppbv
 RT: 3.56 min Scan# 239
 Delta R.T. -0.02 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Tgt Ion: 45 Resp: 535461
 Ion Ratio Lower Upper
 45 100
 46 36.2 14.3 57.3





#15

Acetone

Concen: 1.543 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

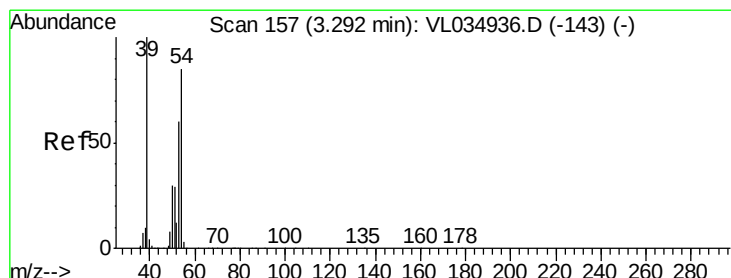
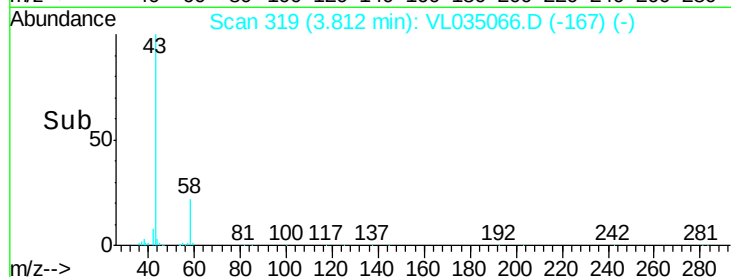
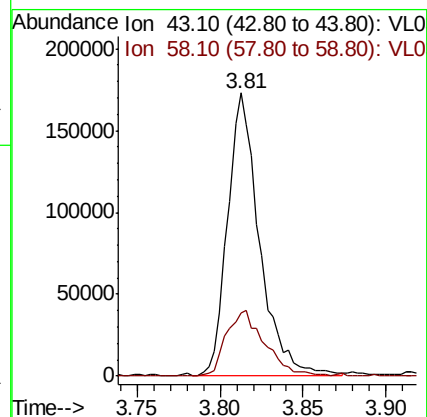
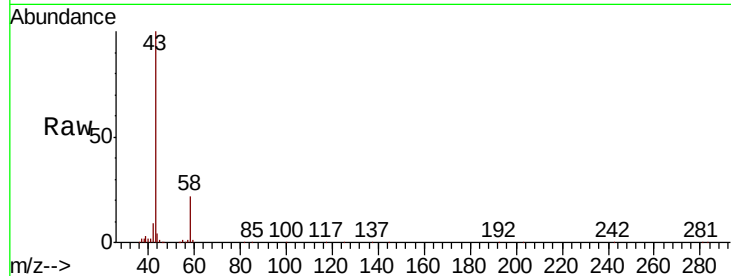
ClientSampleId :

Tot Ion: 43 Resp: 229236

Ion Ratio Lower Upper

43 100

58 28.7 21.7 32.5



#16

1,3-Butadiene

Concen: 0.056 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.03 min

Lab File: VL035066.D

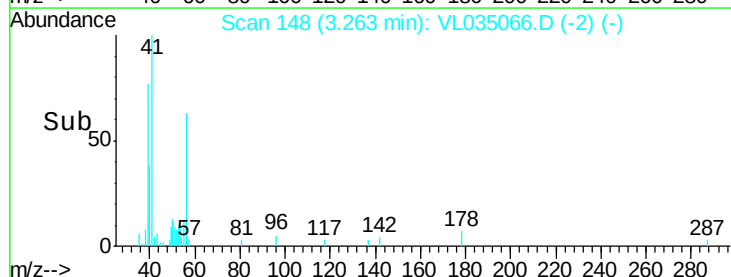
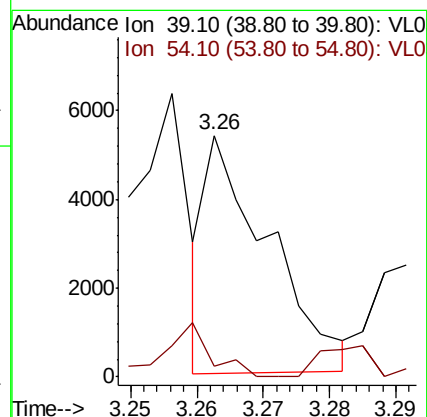
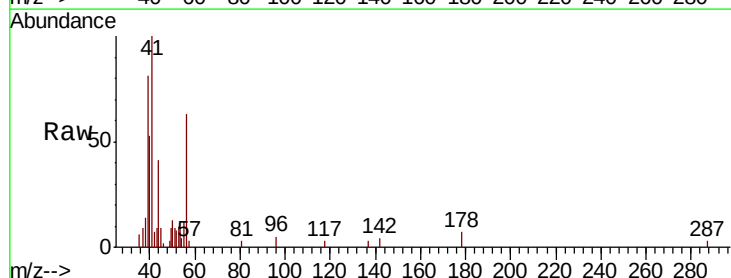
Acq: 20 May 2020 5:25

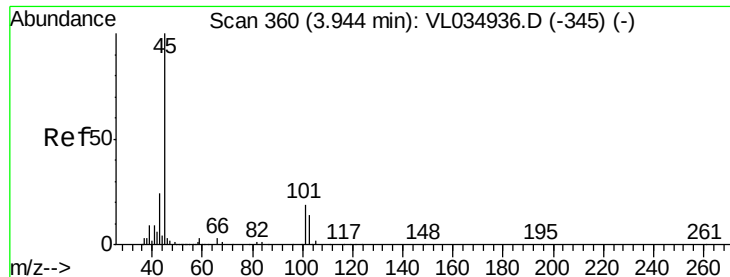
Tgt Ion: 39 Resp: 3572

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



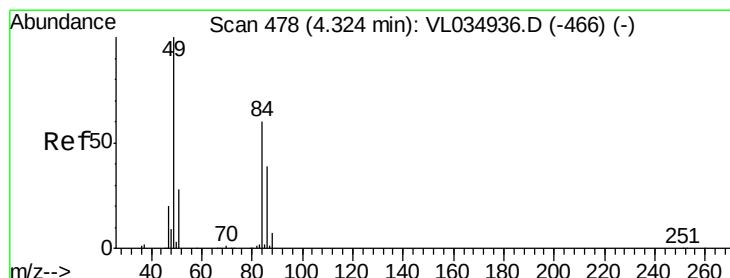
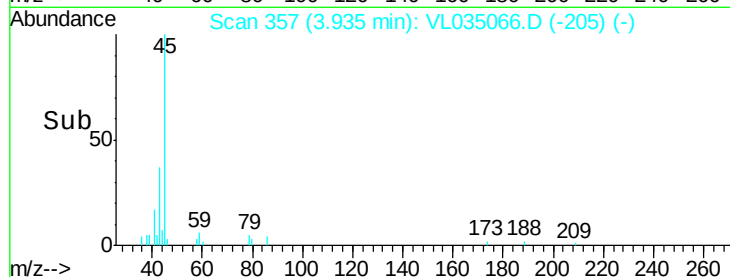
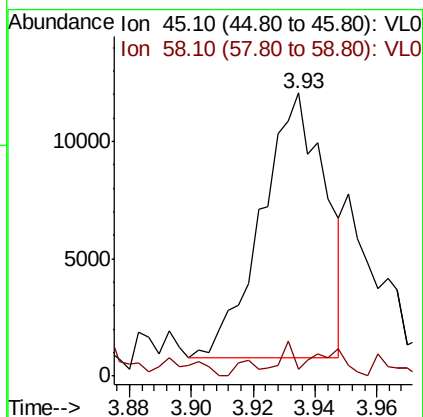
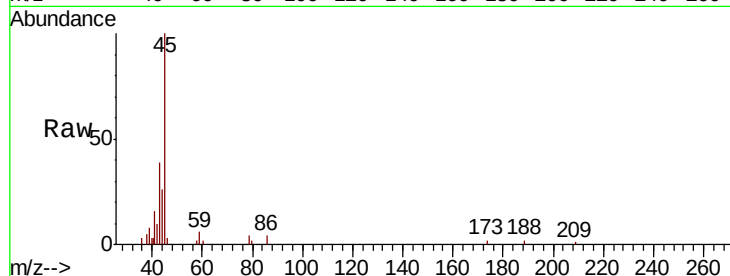


#19

Isopropyl Alcohol
 Concen: 0.162 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Instrument :
 MSVOA_L
 ClientSampleId :

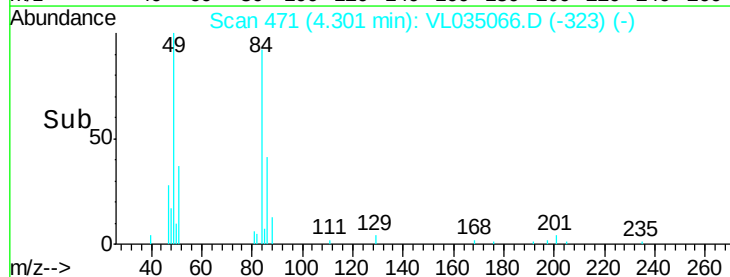
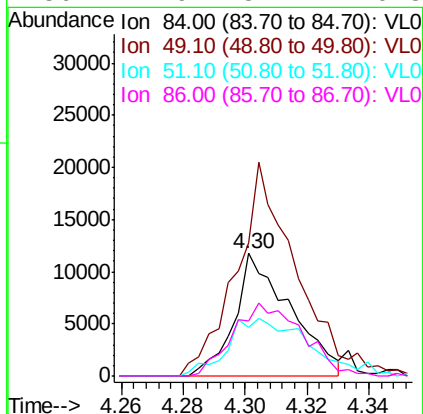
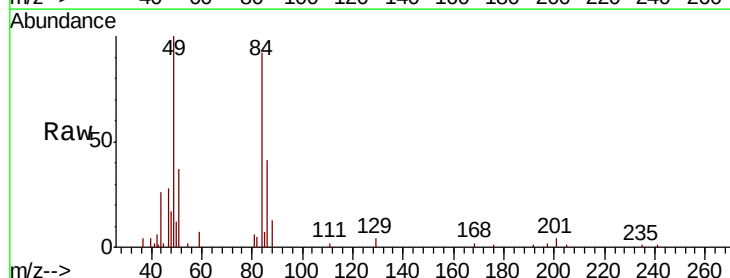
Tot Ion: 45 Resp: 16029
 Ion Ratio Lower Upper
 45 100
 58 12.6 1.7 2.5#

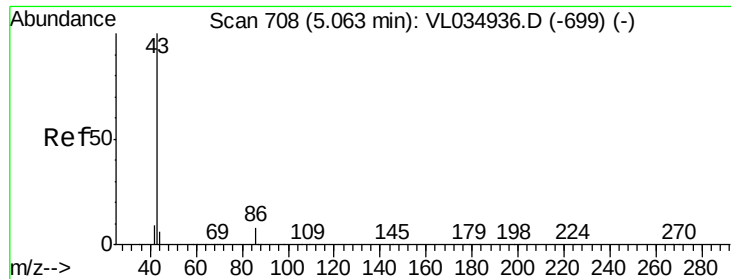


#20

Methylene Chloride
 Concen: 0.299 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. -0.02 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Tgt Ion: 84 Resp: 14705
 Ion Ratio Lower Upper
 84 100
 49 94.4 132.5 198.7#
 51 36.4 38.4 57.6#
 86 44.9 51.2 76.8#





#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 6916

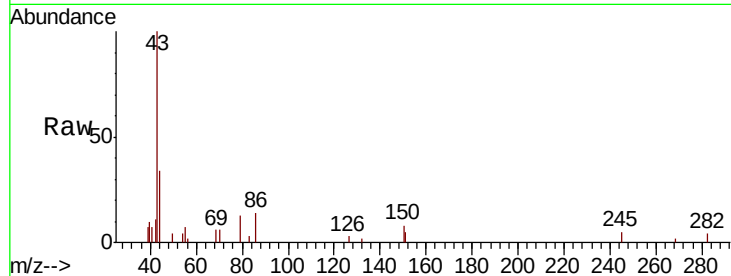
Ion Ratio Lower Upper

43 100

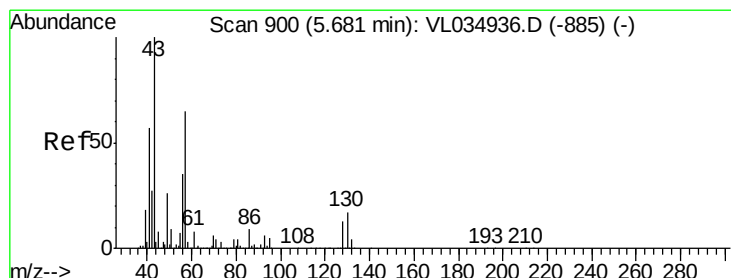
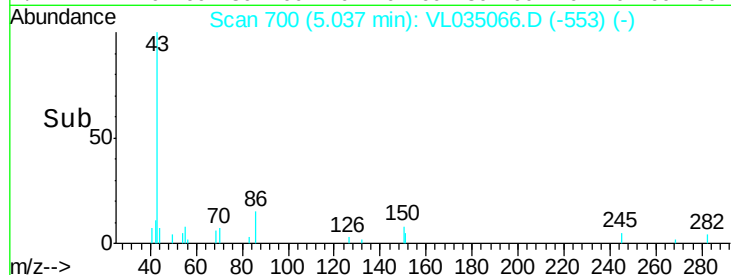
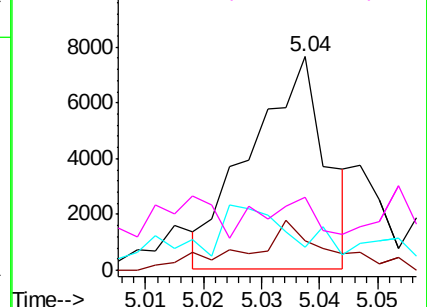
86 7.1 5.5 8.3

42 3.9 8.0 12.0#

44 21.3 4.5 6.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#26

Hexane

Concen: 0.031 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Tgt Ion: 57 Resp: 3319

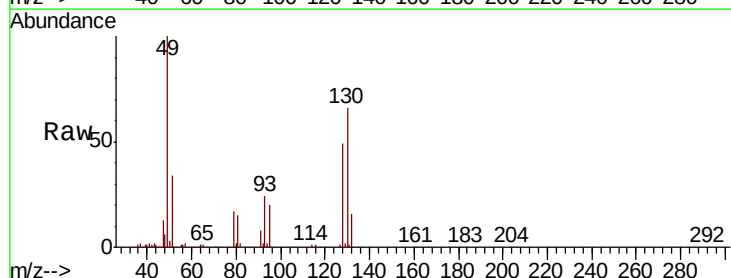
Ion Ratio Lower Upper

57 100

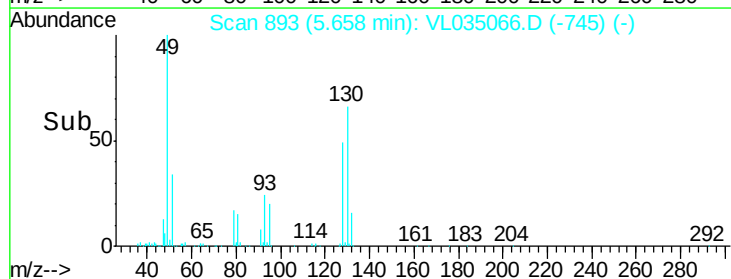
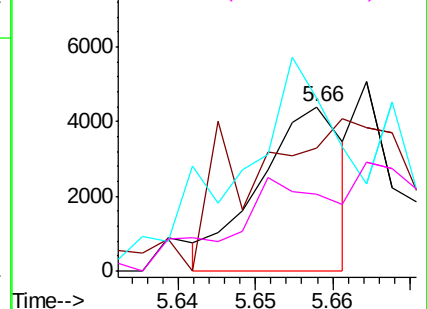
41 0.0 72.7 109.1#

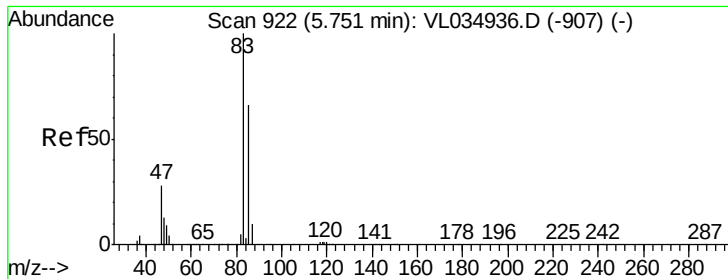
43 248.7 182.1 273.1

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





#29

Chloroform

Concen: 0.045 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

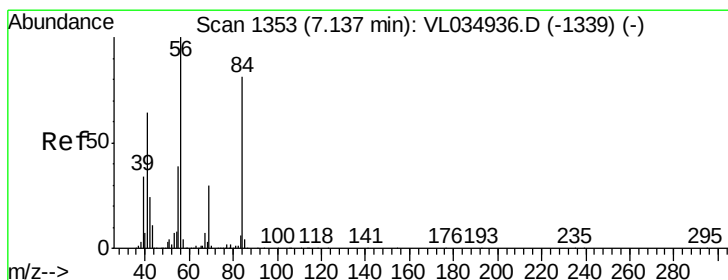
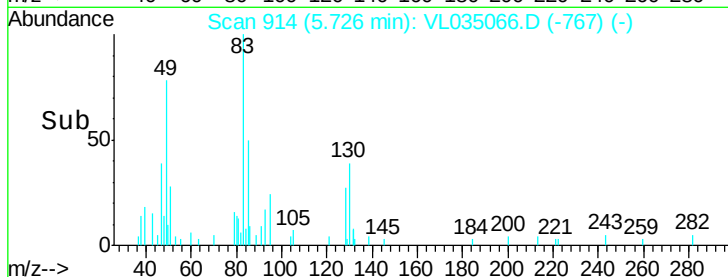
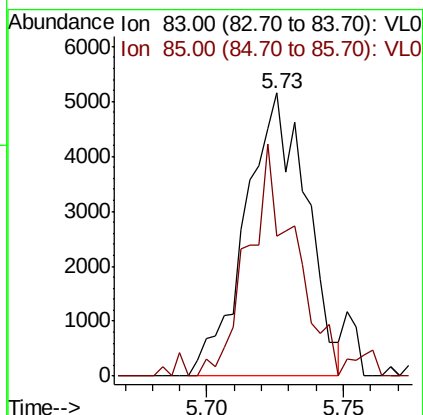
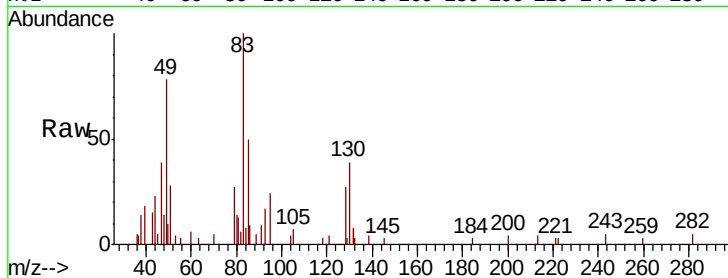
ClientSampled :

Tot Ion: 83 Resp: 7991

Ion Ratio Lower Upper

83 100

85 49.6 53.0 79.6#



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. 0.01 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

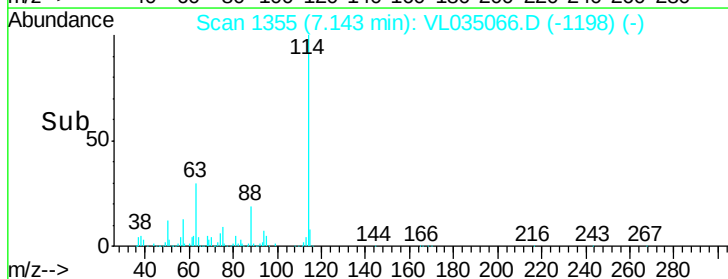
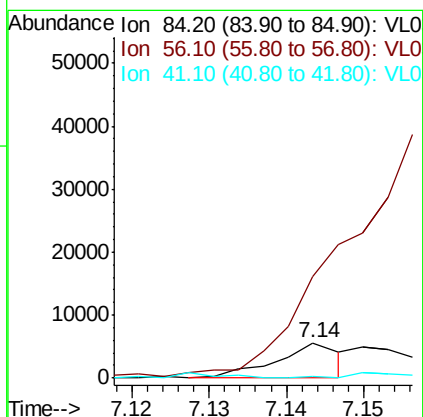
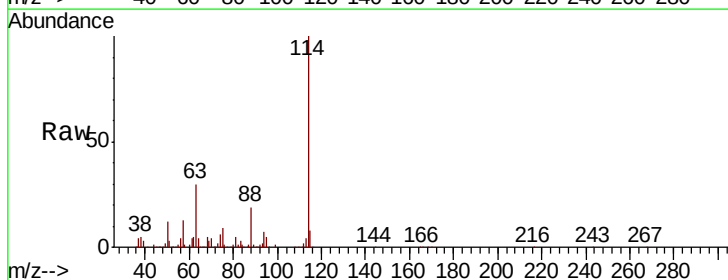
Tgt Ion: 84 Resp: 3221

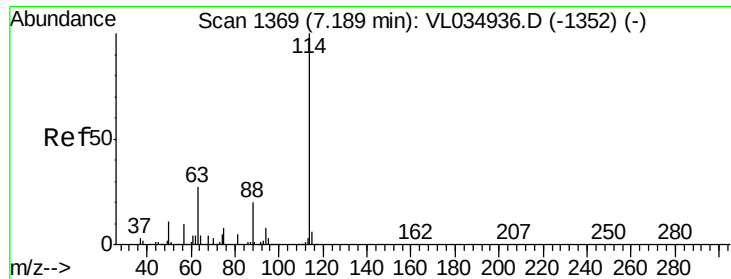
Ion Ratio Lower Upper

84 100

56 0.0 111.4 167.2#

41 12.0 66.7 100.1#

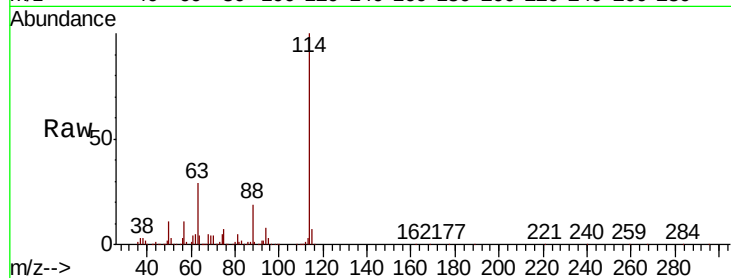




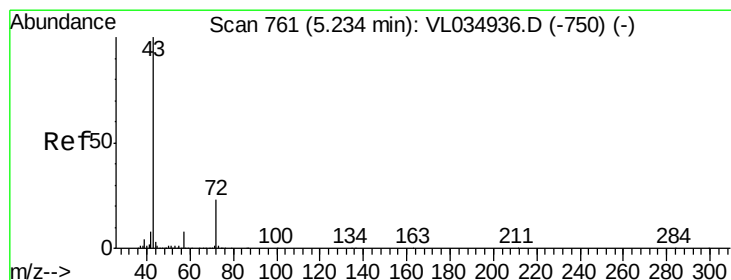
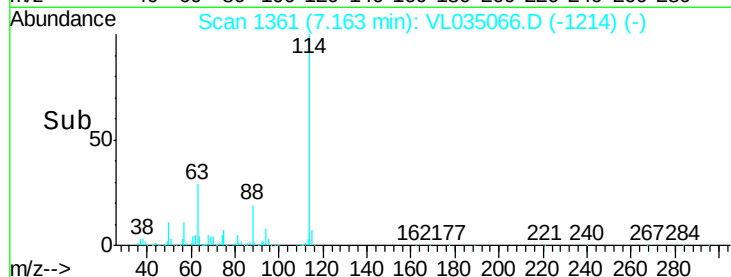
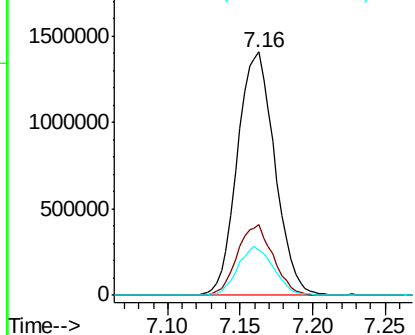
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2530122
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.2 33.4
 88 19.3 15.5 23.3

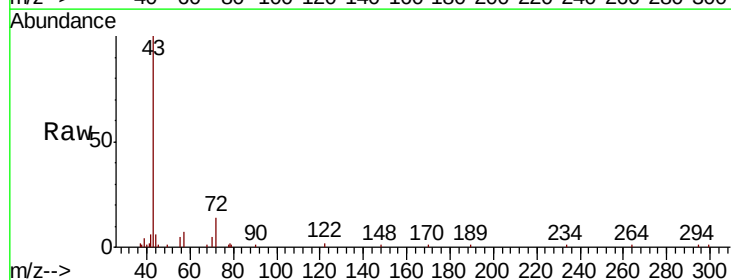


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

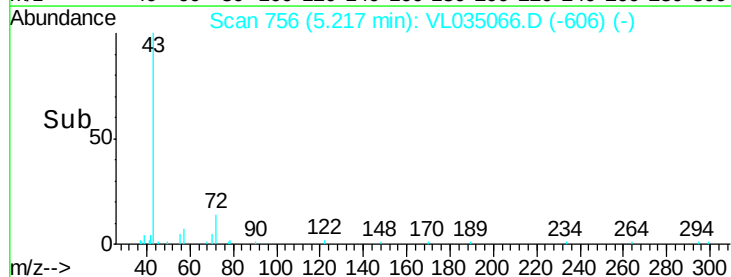
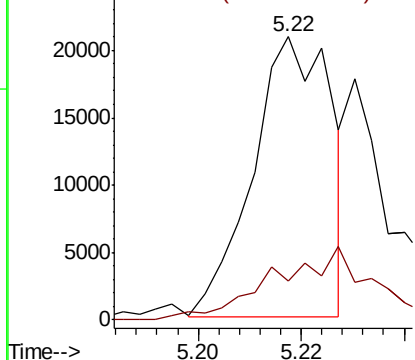


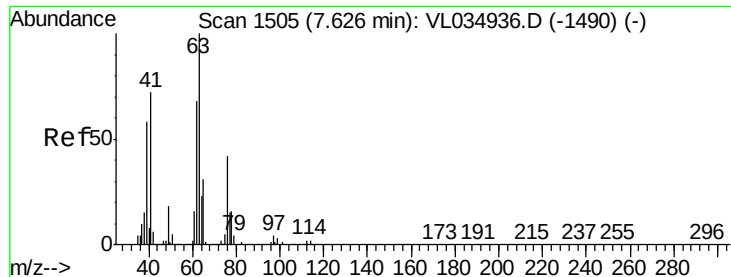
#34
 2-Butanone
 Concen: 0.140 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Tgt Ion: 43 Resp: 22045
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.0 27.0#



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

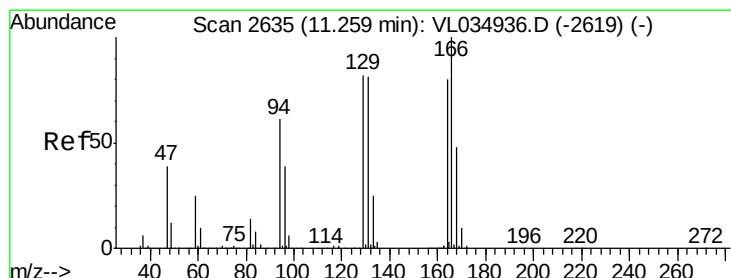
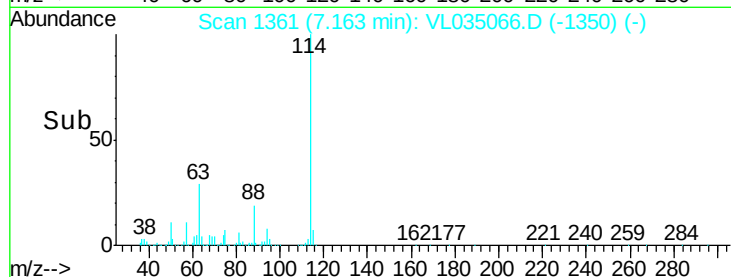
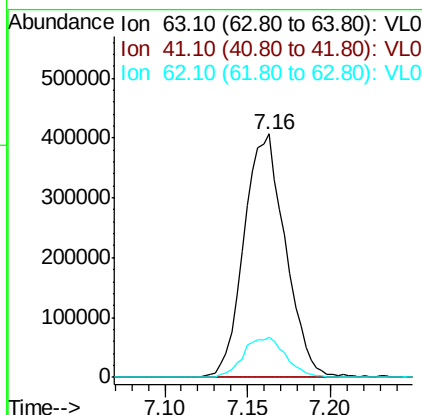
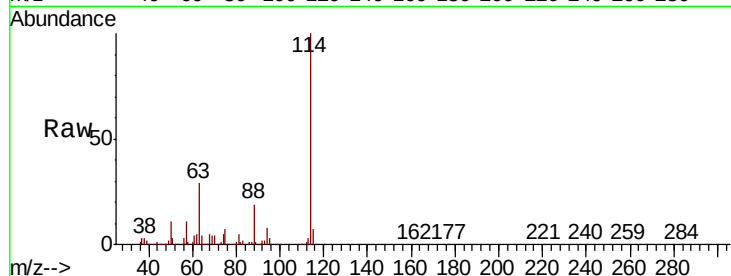




#39
 1,2-Dichloropropane
 Concen: 8.433 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

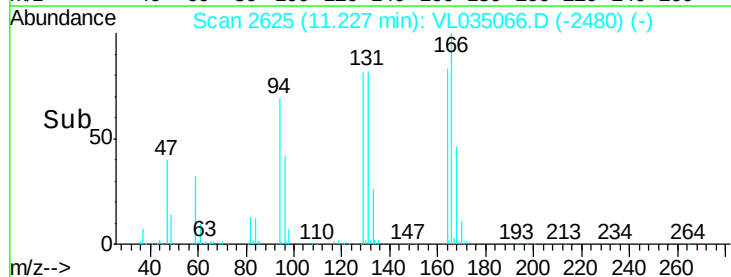
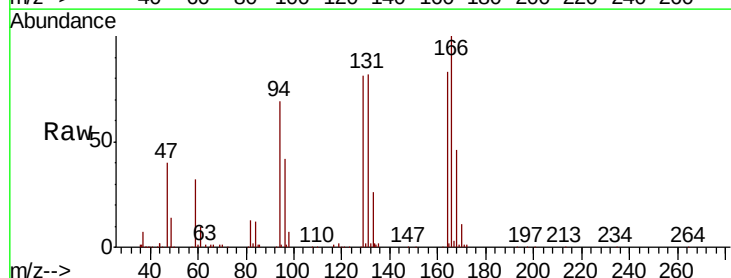
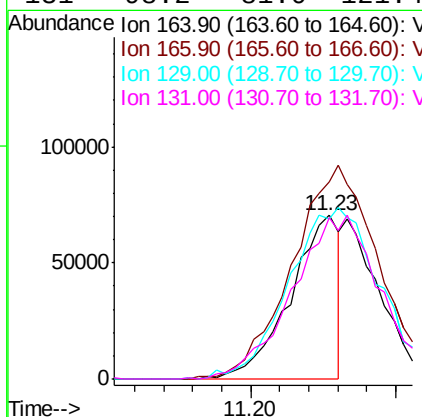
Instrument :
 MSVOA_L
 ClientSampled :

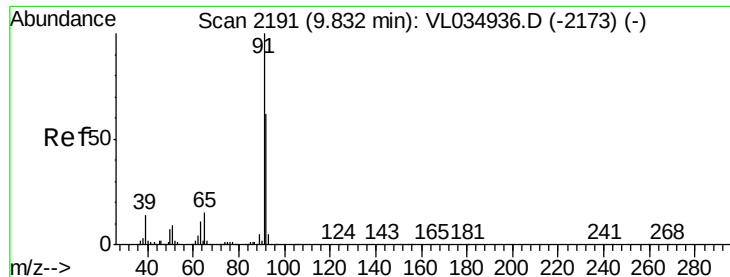
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	16.2	54.2	81.2#



#52
 Tetrachloroethene
 Concen: 1.112 ppbv
 RT: 11.23 min Scan# 2625
 Delta R.T. -0.03 min
 Lab File: VL035066.D
 Acq: 20 May 2020 5:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.8	100.7	151.1
129	99.1	83.0	124.4
131	98.2	81.0	121.4





#53

Toluene

Concen: 0.066 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

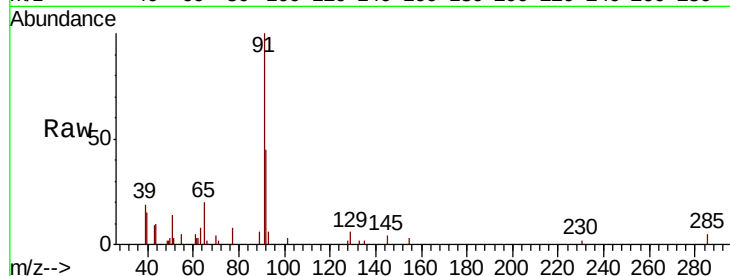
ClientSampleId :

Tot Ion: 91 Resp: 14543

Ion Ratio Lower Upper

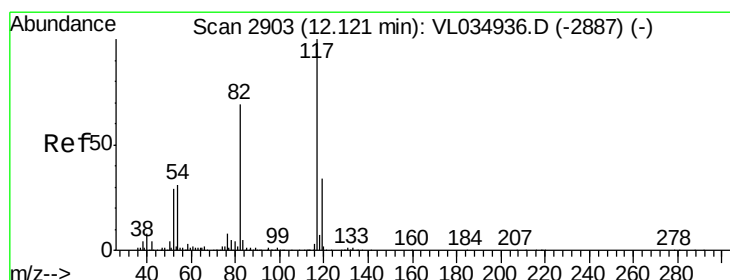
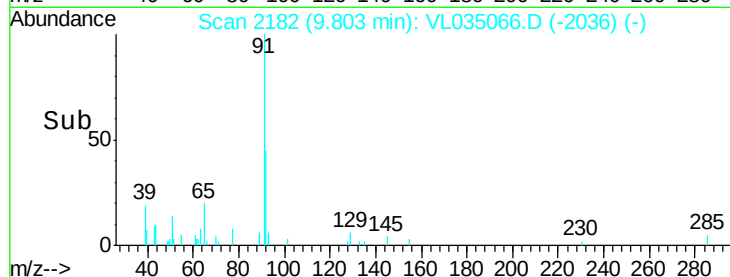
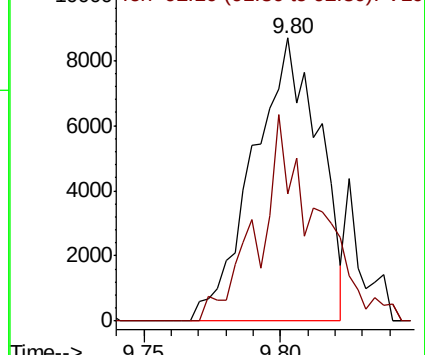
91 100

92 65.8 48.6 73.0



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: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

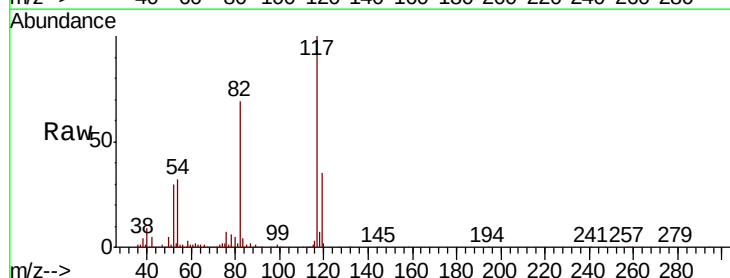
Tgt Ion: 117 Resp: 2424579

Ion Ratio Lower Upper

117 100

82 70.0 53.1 79.7

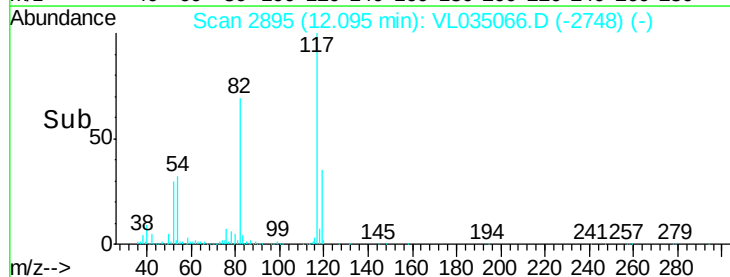
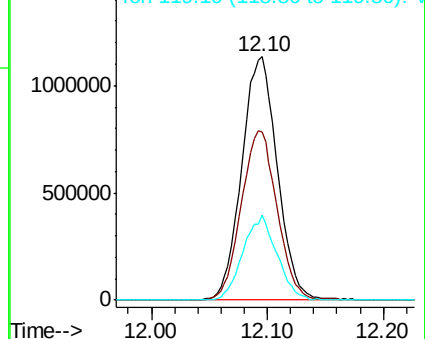
119 33.2 26.7 40.1

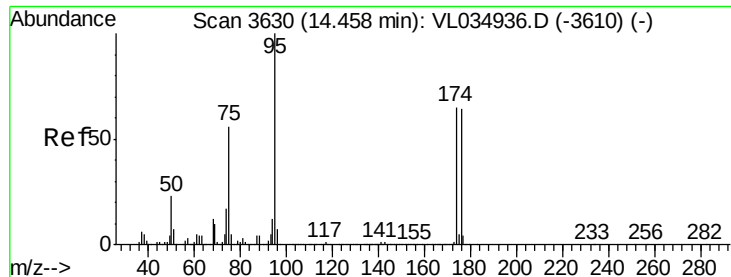


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.335 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.03 min

Lab File: VL035066.D

Acq: 20 May 2020 5:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2028294

Ion Ratio Lower Upper

95 100

174 64.5 51.5 77.3

175 4.8 3.8 5.8

