

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036884.D
 Acq On : 28 Apr 2021 18:02
 Operator : SY/AP
 Sample : M2201-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:10:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1494717	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3349772	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2942773	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2275535	9.63	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

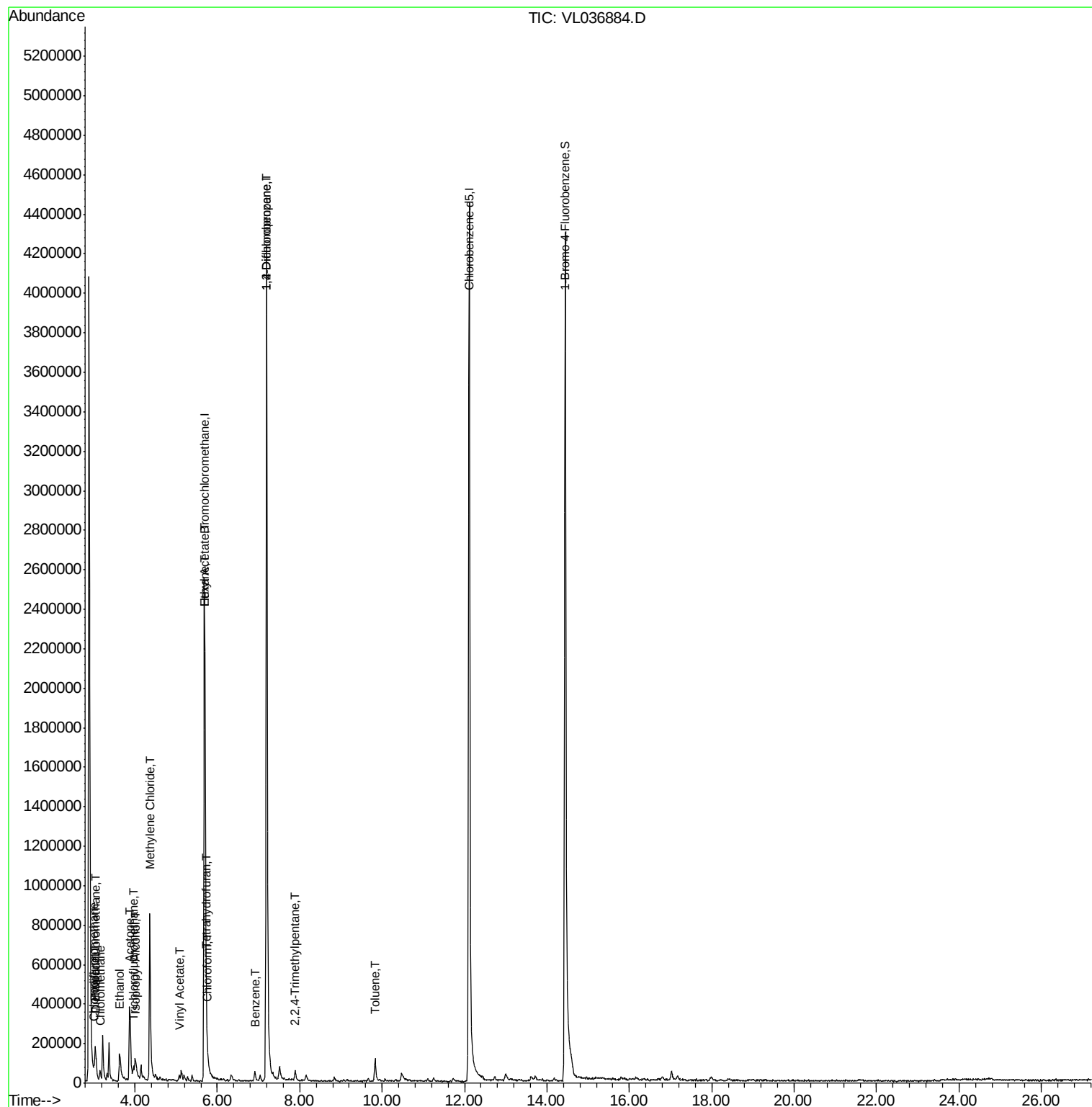
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	62331	0.265 ppbv	90
3) Chlorodifluoromethane	3.00	51	89120	0.327 ppbv #	82
4) Chloromethane	3.16	50	49731	0.556 ppbv #	75
9) Propene	3.03	41	50145	0.604 ppbv	100
11) Trichlorofluoromethane	3.97	101	35273	0.168 ppbv	97
13) Ethanol	3.63	45	98709	9.329 ppbv #	25
15) Acetone	3.87	43	530454	3.765 ppbv	97
19) Isopropyl Alcohol	4.01	45	60860	0.872 ppbv #	83
20) Methylene Chloride	4.36	84	325875	4.837 ppbv	94
23) Vinyl Acetate	5.09	43	7200	0.038 ppbv #	56
25) Ethyl Acetate	5.71	43	194524	0.565 ppbv #	82
26) Hexane	5.71	57	235992	1.466 ppbv #	44
29) Chloroform	5.77	83	7744	0.031 ppbv	86
36) Benzene	6.91	78	41639	0.148 ppbv	97
39) 1,2-Dichloropropane	7.19	63	913016	8.075 ppbv #	25
41) Tetrahydrofuran	5.74	42	3967	0.062 ppbv #	41
44) 2,2,4-Trimethylpentane	7.89	57	16160	0.033 ppbv #	7
53) Toluene	9.83	91	37729	0.128 ppbv #	2

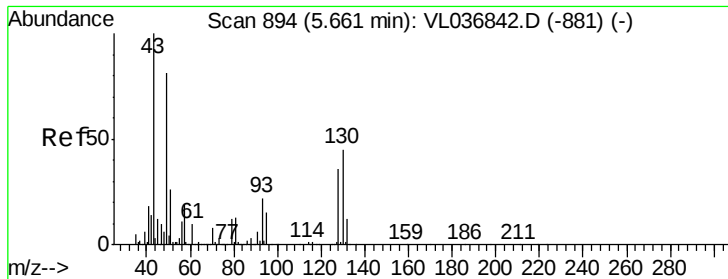
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_L
ClientSampled :

Quant Time: Apr 29 03:10:29 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

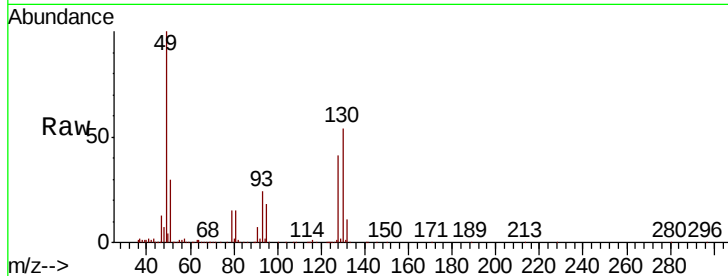
Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1494717

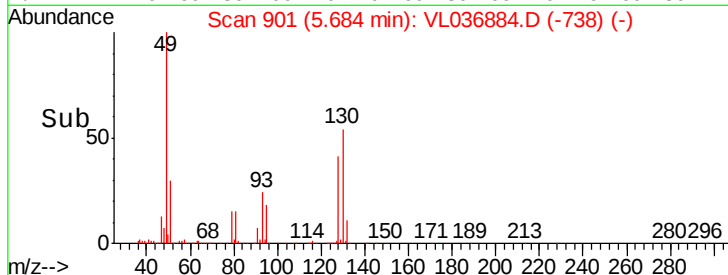
Ion	Ratio	Lower	Upper
49	100		
128	44.3	24.4	73.2
130	56.2	30.3	90.8



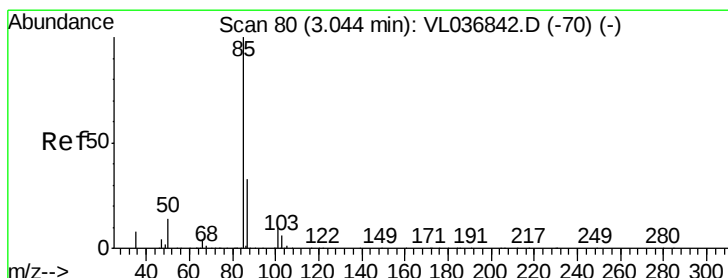
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.265 ppbv

RT: 3.06 min Scan# 85

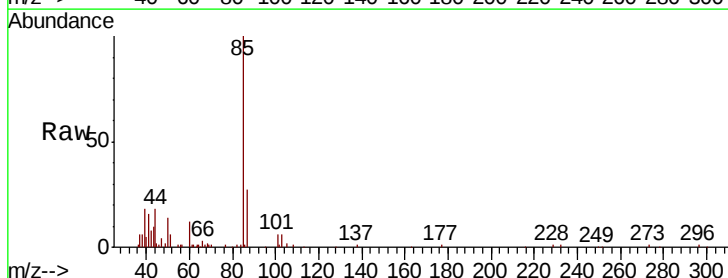
Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

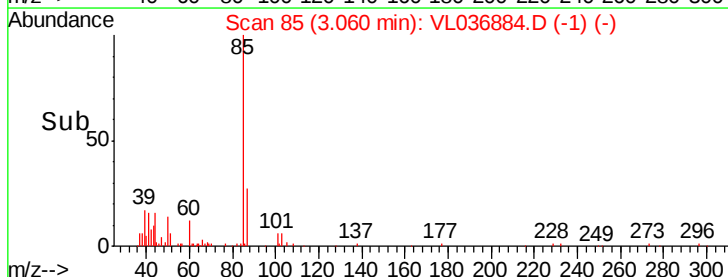
Tgt Ion: 85 Resp: 62331

Ion	Ratio	Lower	Upper
85	100		
87	27.0	26.2	39.2

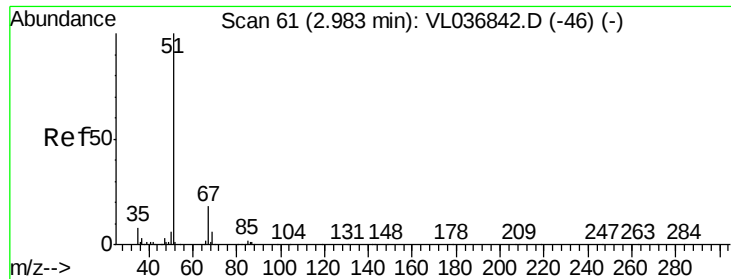


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.327 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

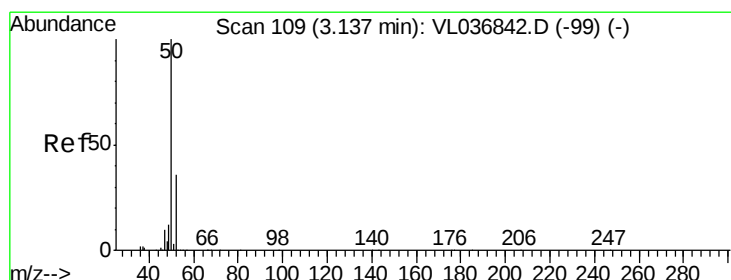
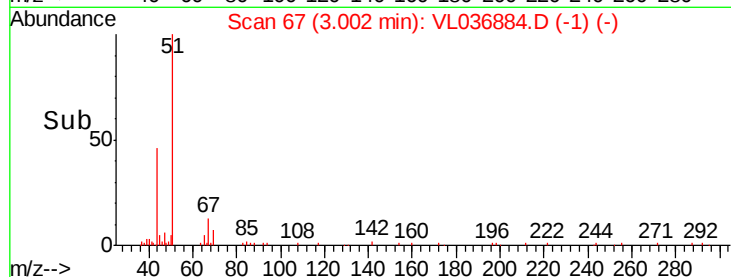
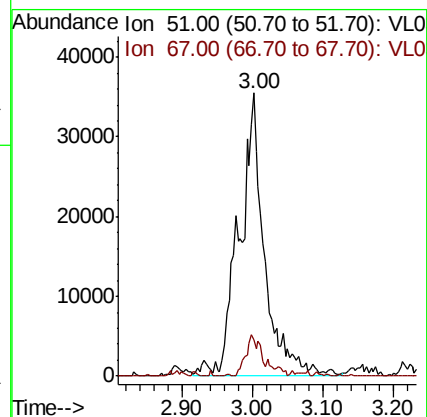
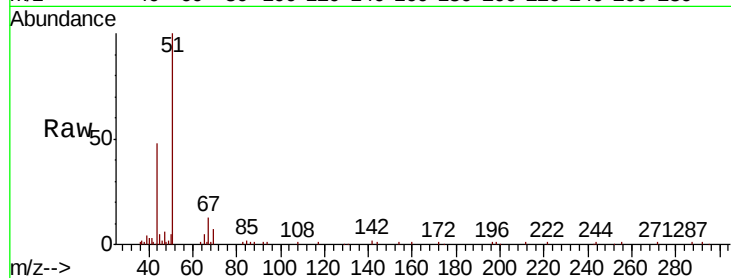
ClientSampleId :

Tot Ion: 51 Resp: 89120

Ion Ratio Lower Upper

51 100

67 10.7 14.8 22.2#



#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL036884.D

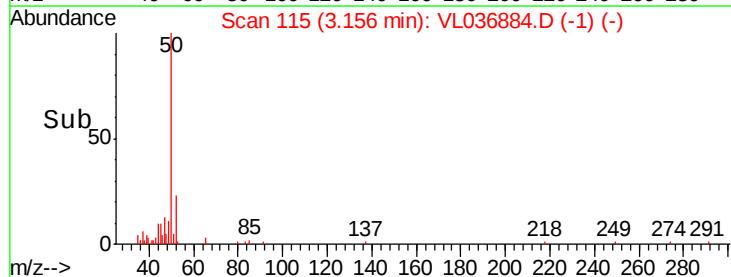
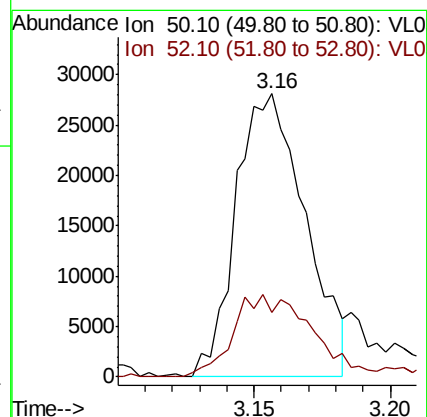
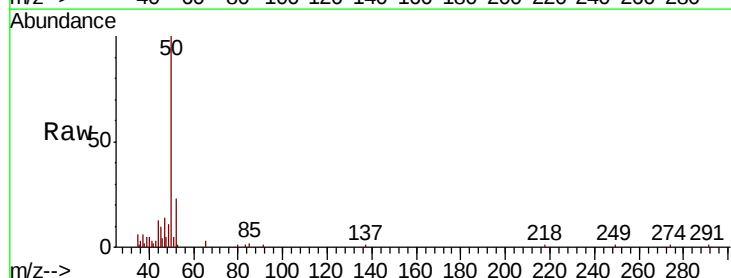
Acq: 28 Apr 2021 18:02

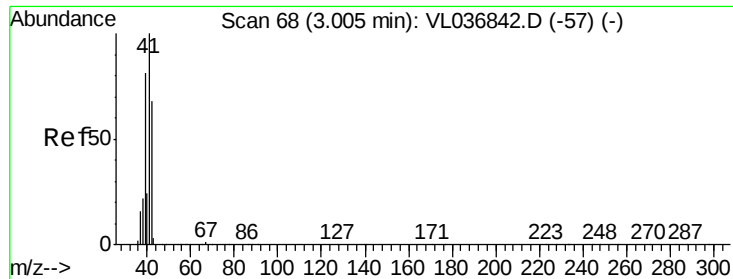
Tgt Ion: 50 Resp: 49731

Ion Ratio Lower Upper

50 100

52 21.1 28.5 42.7#





#9

Propene

Concen: 0.604 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

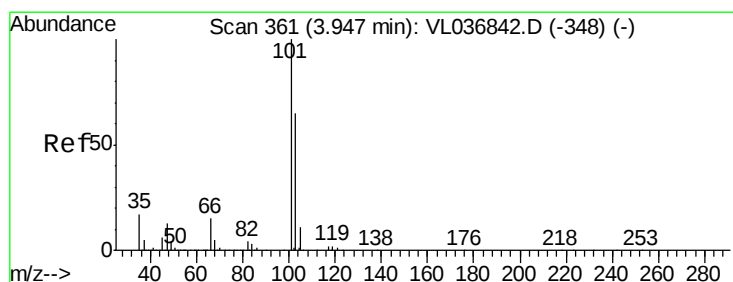
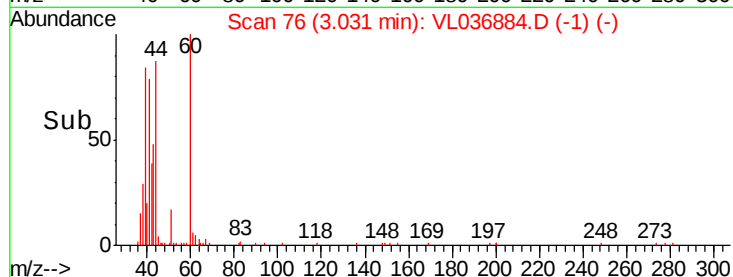
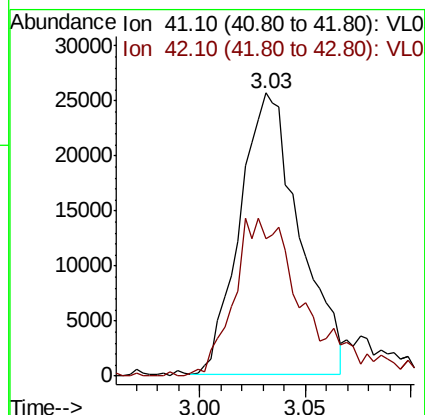
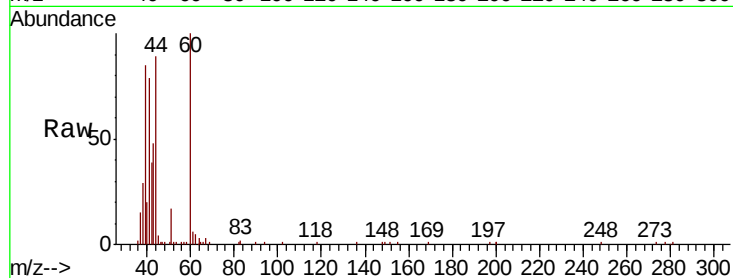
ClientSampleId :

Tot Ion: 41 Resp: 50145

Ion Ratio Lower Upper

41 100

42 69.8 56.0 84.0



#11

Trichlorofluoromethane

Concen: 0.168 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL036884.D

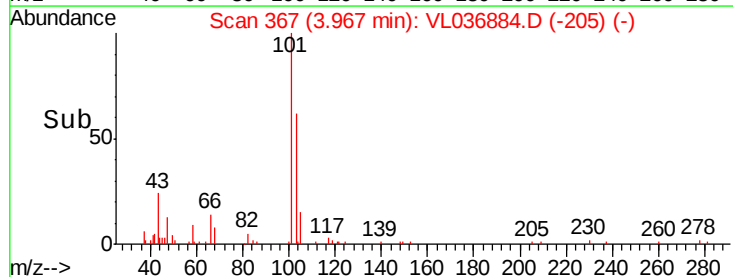
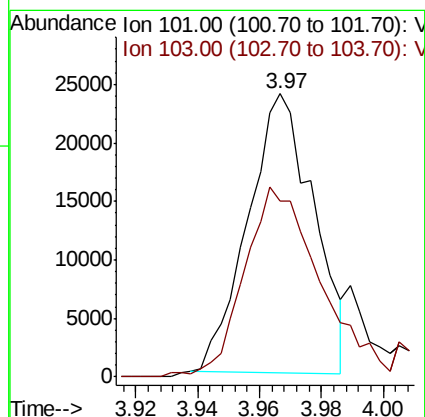
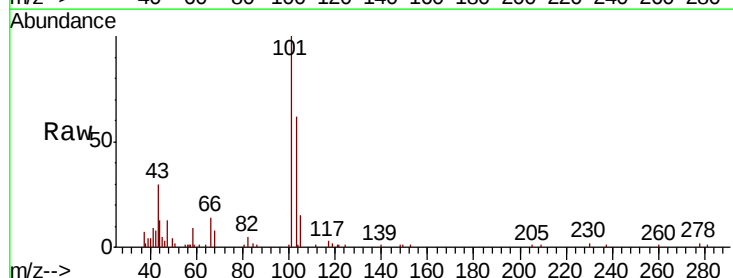
Acq: 28 Apr 2021 18:02

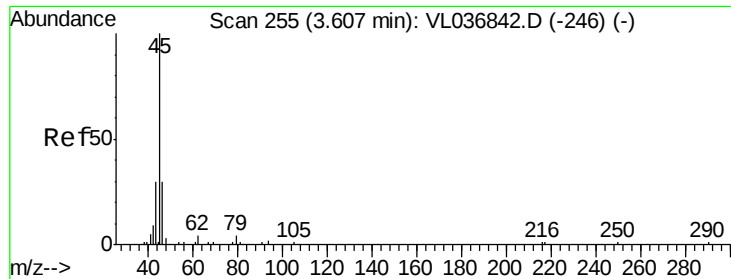
Tgt Ion: 101 Resp: 35273

Ion Ratio Lower Upper

101 100

103 62.0 51.6 77.4

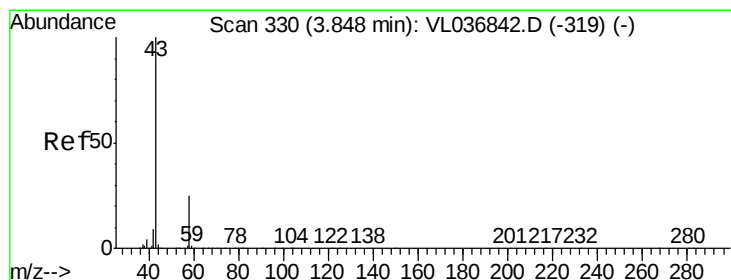
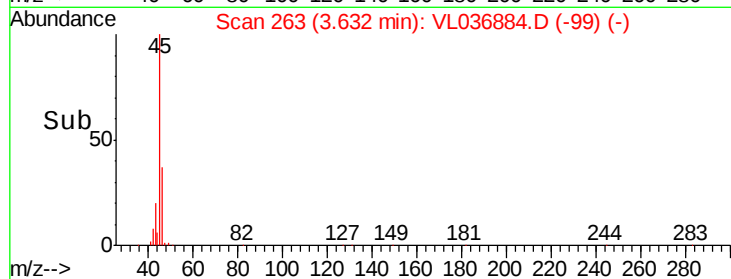
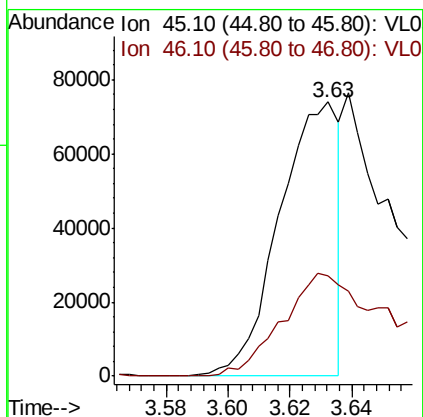
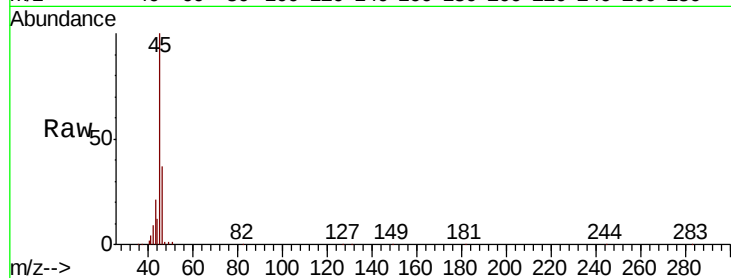




#13
Ethanol
Concen: 9.329 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

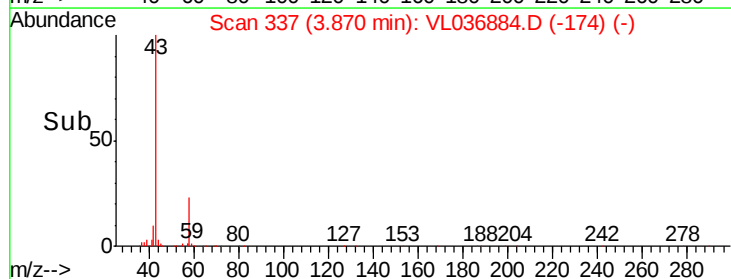
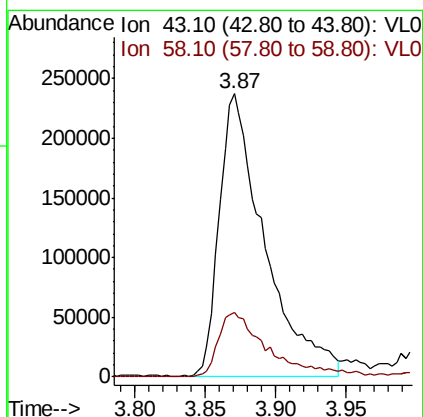
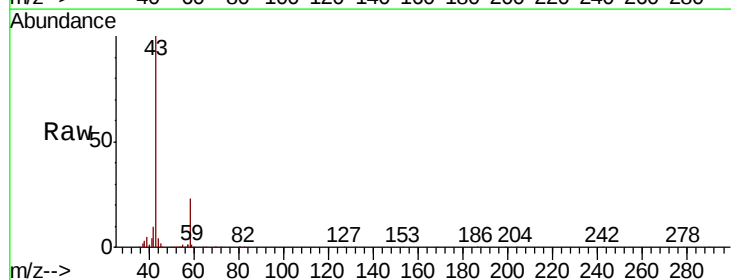
Instrument :
MSVOA_L
ClientSampled :

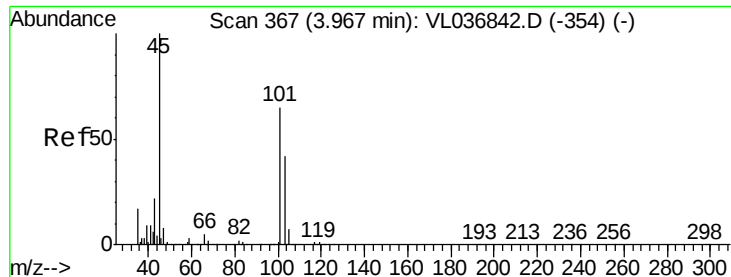
Tot Ion: 45 Resp: 98709
Ion Ratio Lower Upper
45 100
46 89.3 16.8 67.4#



#15
Acetone
Concen: 3.765 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion: 43 Resp: 530454
Ion Ratio Lower Upper
43 100
58 25.5 21.7 32.5





#19

Isopropyl Alcohol

Concen: 0.872 ppbv

RT: 4.01 min Scan# 379

Delta R.T. 0.04 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

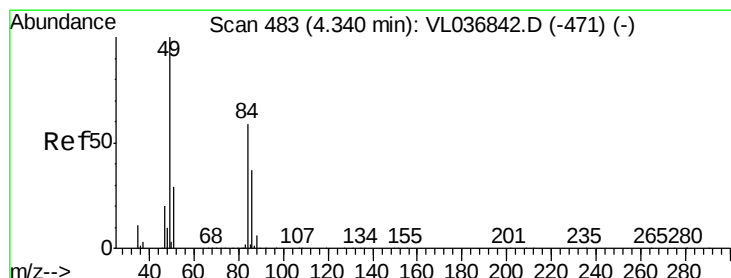
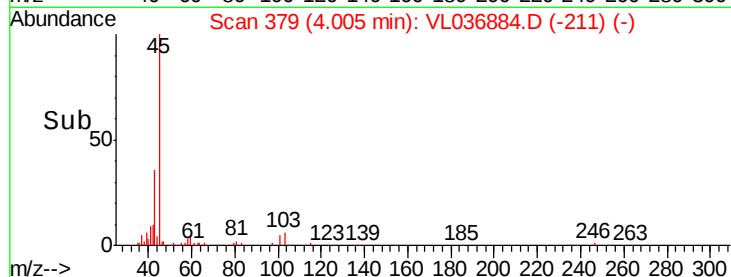
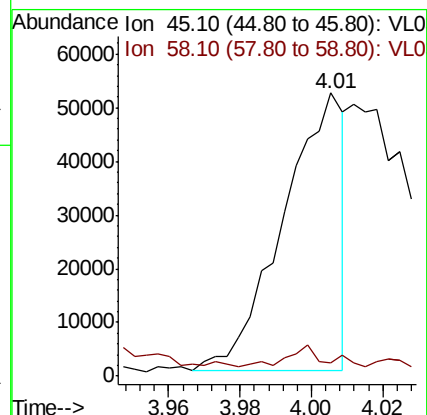
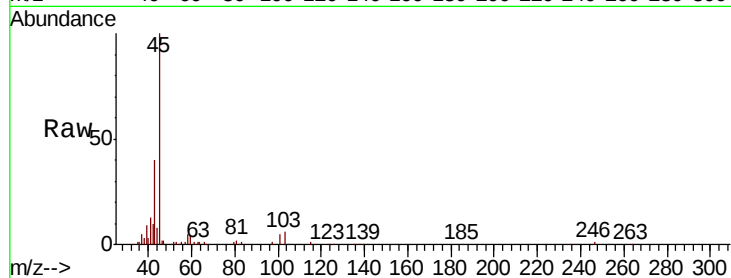
ClientSampleId :

Tot Ion: 45 Resp: 60860

Ion Ratio Lower Upper

45 100

58 9.0 2.8 4.2#



#20

Methylene Chloride

Concen: 4.837 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tgt Ion: 84 Resp: 325875

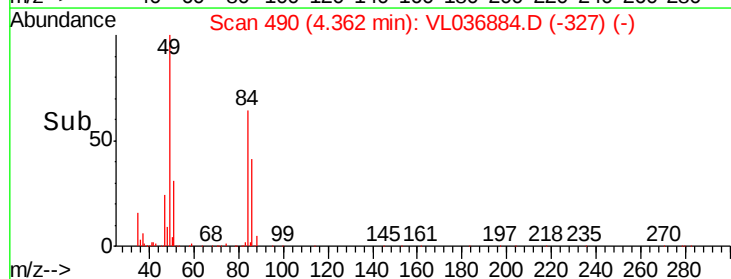
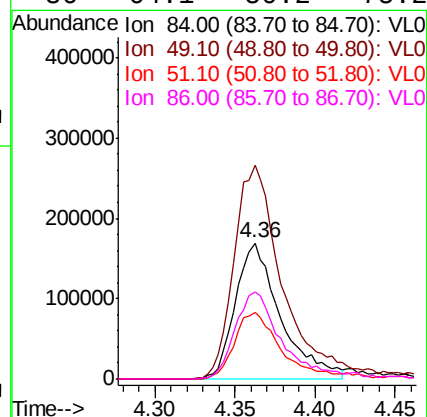
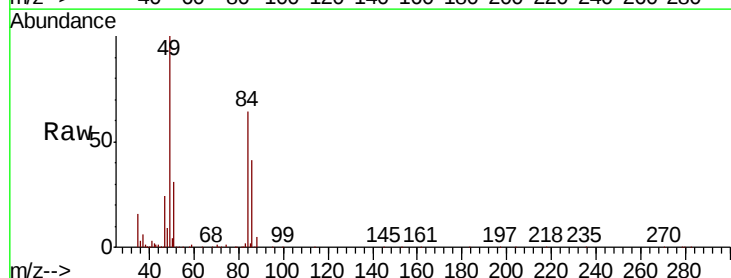
Ion Ratio Lower Upper

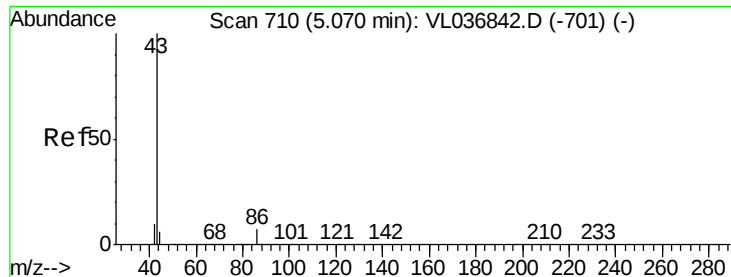
84 100

49 157.1 135.4 203.0

51 48.7 39.3 58.9

86 64.1 50.2 75.2





#23

Vinyl Acetate

Concen: 0.038 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.02 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 7200

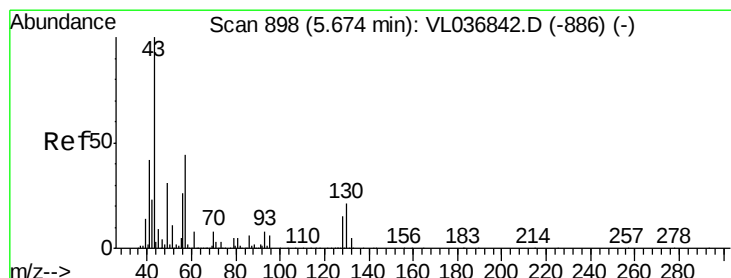
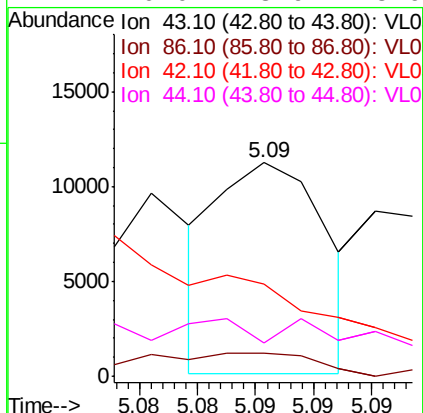
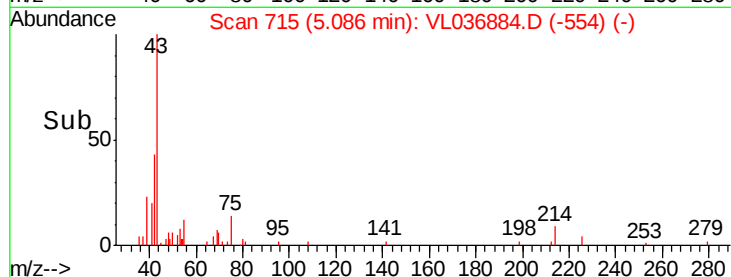
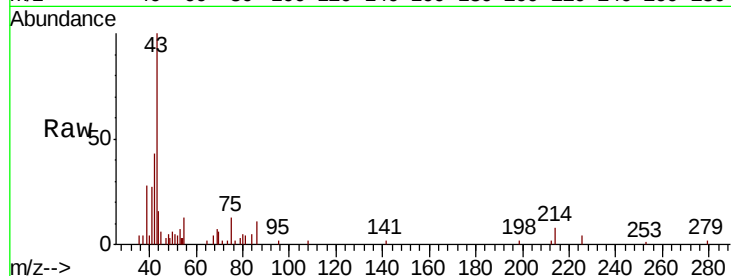
Ion Ratio Lower Upper

43 100

86 13.8 5.3 7.9#

42 37.5 8.7 13.1#

44 0.0 3.9 5.9#



#25

Ethyl Acetate

Concen: 0.565 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.04 min

Lab File: VL036884.D

Acq: 28 Apr 2021 18:02

Tgt Ion: 43 Resp: 194524

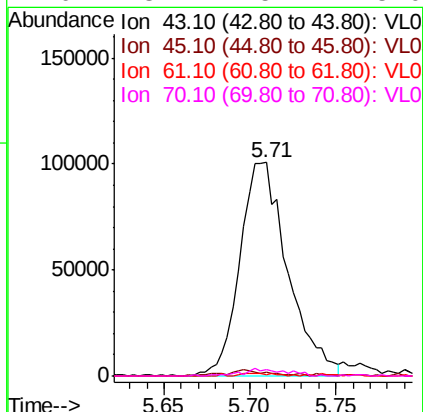
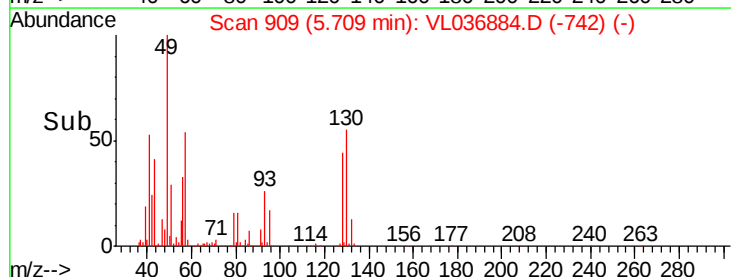
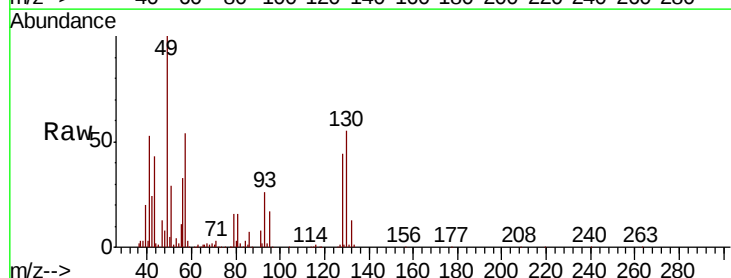
Ion Ratio Lower Upper

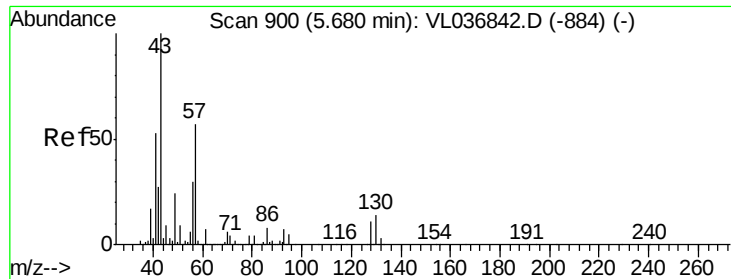
43 100

45 2.6 7.8 11.8#

61 1.5 7.4 11.0#

70 3.1 5.4 8.0#

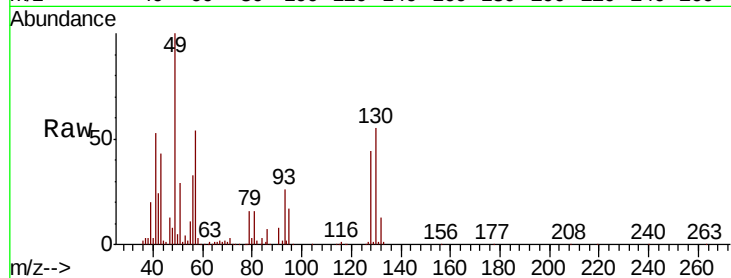




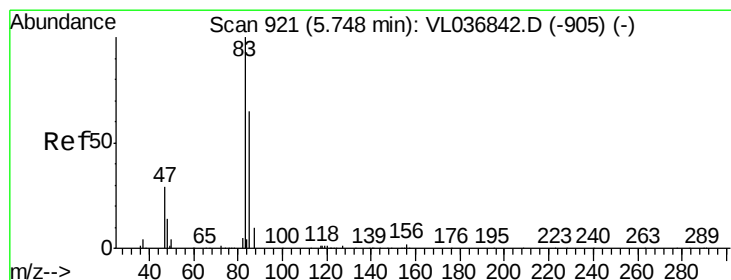
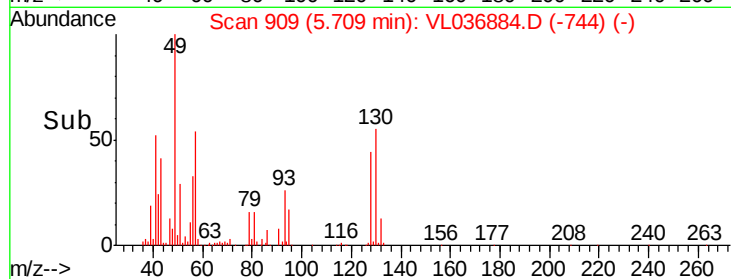
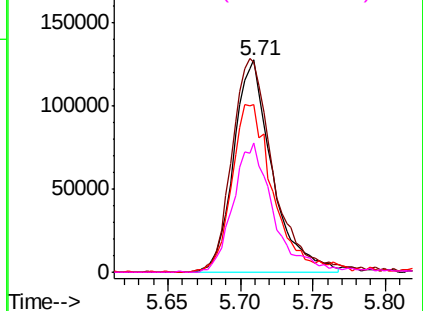
#26
Hexane
Concen: 1.466 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 235992
Ion Ratio Lower Upper
57 100
41 109.2 77.7 116.5
43 86.7 180.5 270.7#
56 64.9 44.6 66.8

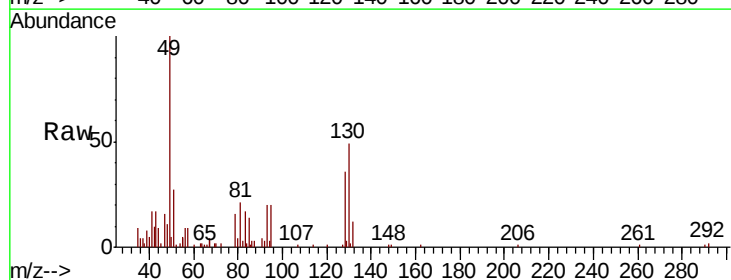


Abundance Ion 57.10 (56.80 to 57.80): VL0
200000
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

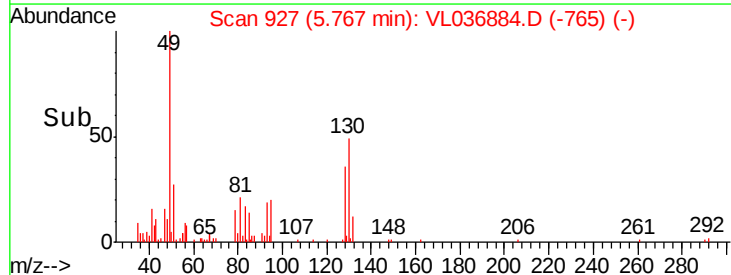
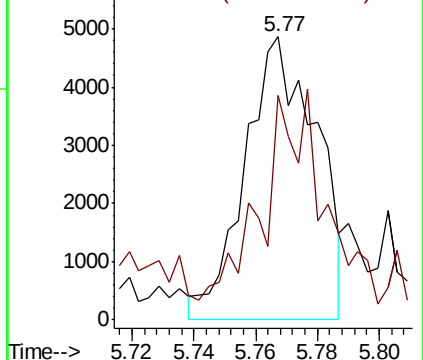


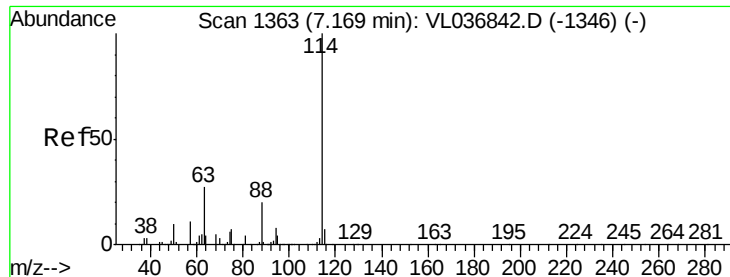
#29
Chloroform
Concen: 0.031 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.02 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion: 83 Resp: 7744
Ion Ratio Lower Upper
83 100
85 76.7 52.2 78.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

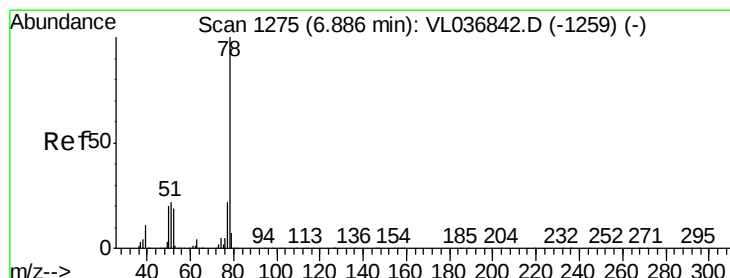
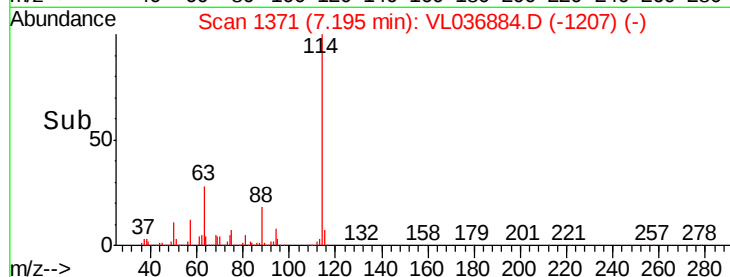
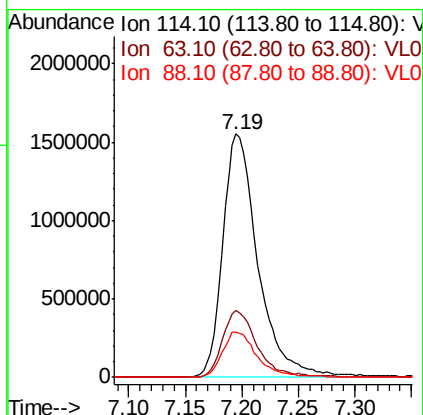
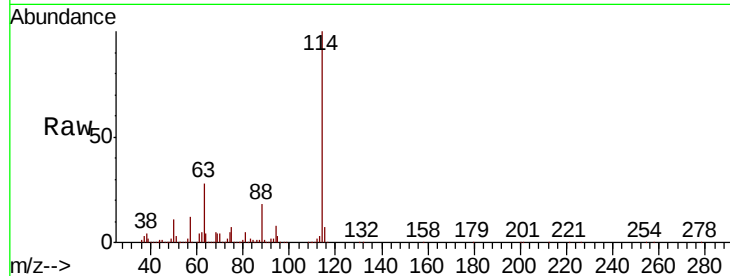




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

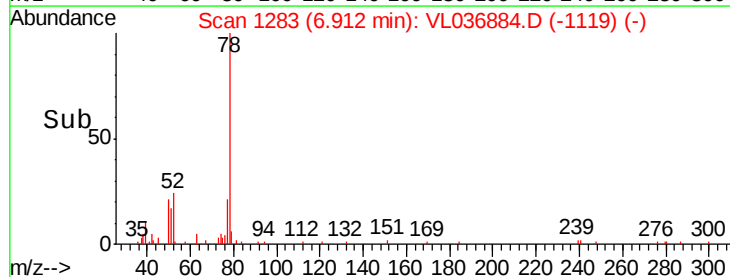
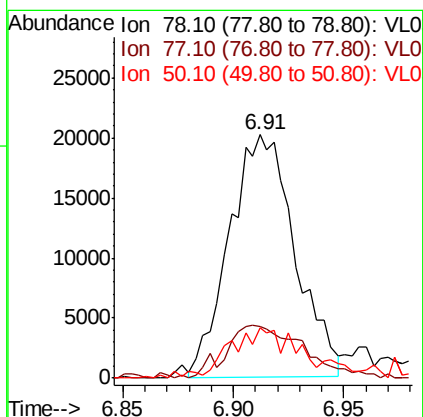
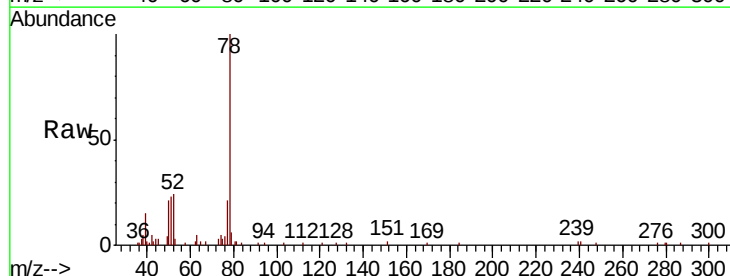
Instrument :
 MSVOA_L
 ClientSampleId :

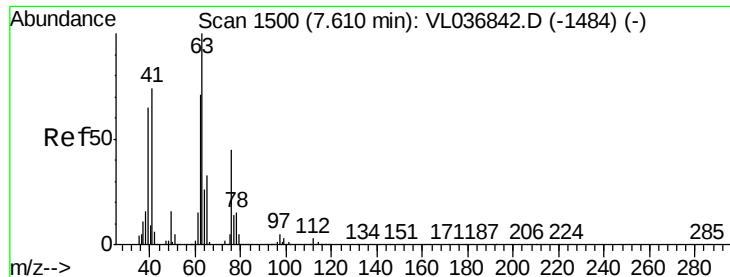
Tot Ion:114 Resp: 3349772
 Ion Ratio Lower Upper
 114 100
 63 27.9 21.9 32.9
 88 19.0 15.1 22.7



#36
 Benzene
 Concen: 0.148 ppbv
 RT: 6.91 min Scan# 1283
 Delta R.T. 0.03 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Tgt Ion: 78 Resp: 41639
 Ion Ratio Lower Upper
 78 100
 77 21.6 17.6 26.4
 50 18.4 16.3 24.5

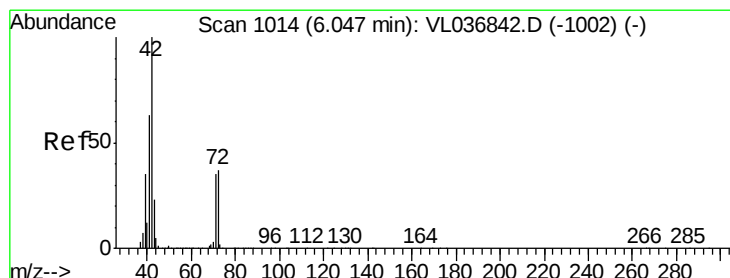
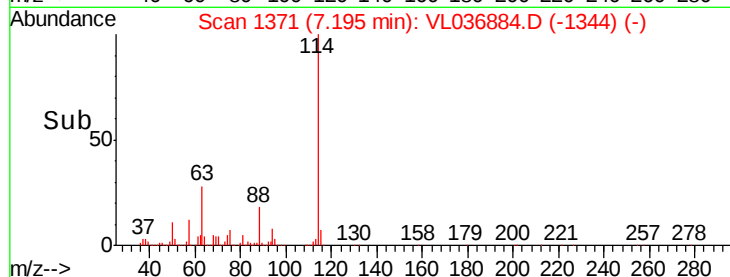
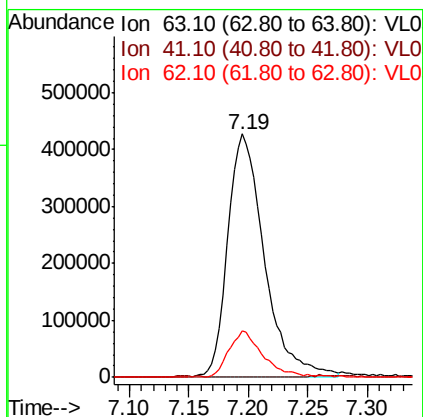
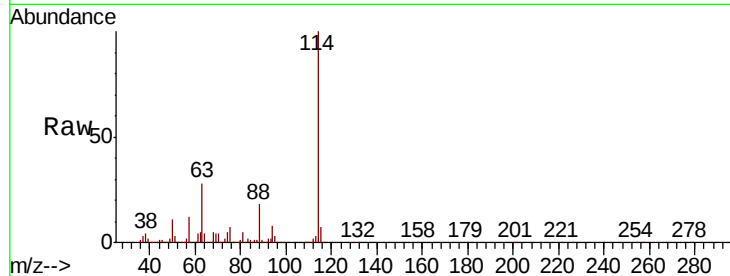




#39
 1,2-Dichloropropane
 Concen: 8.075 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.41 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

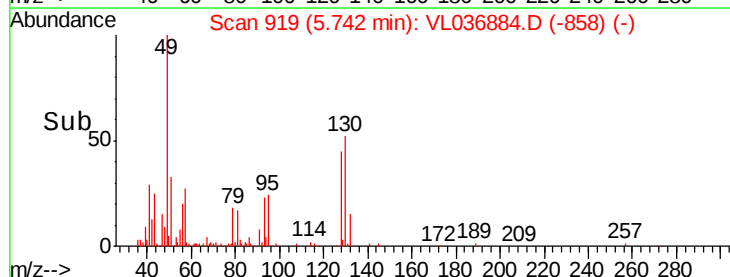
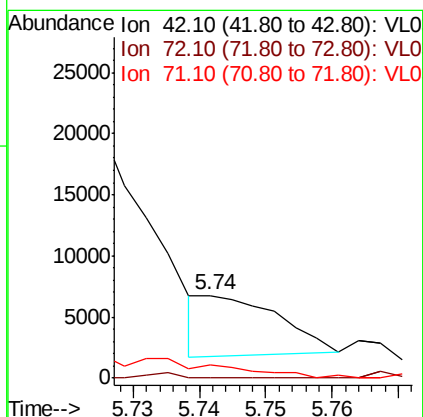
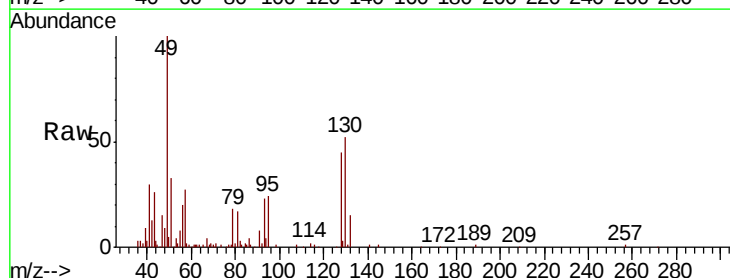
Instrument :
 MSVOA_L
 ClientSampled :

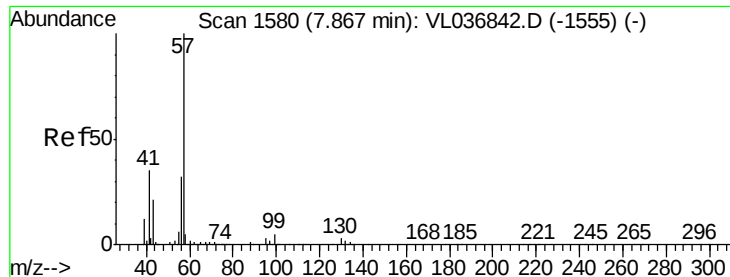
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.1	88.7#
62	19.3	56.9	85.3#



#41
 Tetrahydrofuran
 Concen: 0.062 ppbv
 RT: 5.74 min Scan# 919
 Delta R.T. -0.31 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	3.5	29.7	44.5#
71	0.0	29.0	43.6#

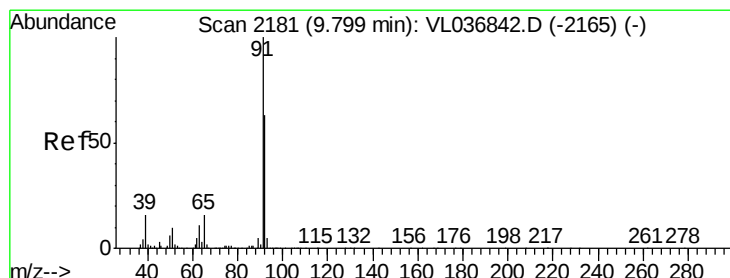
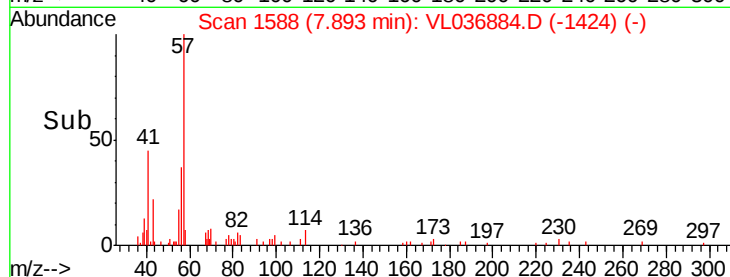
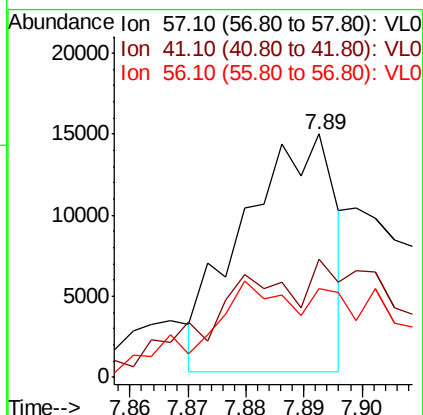
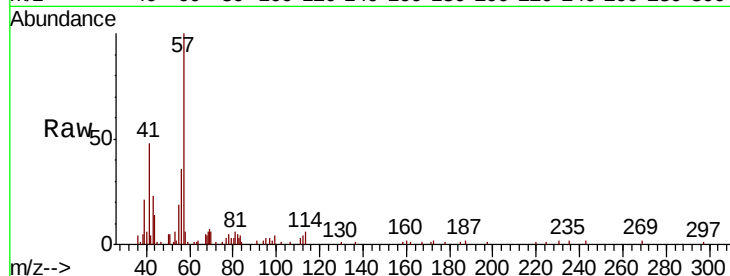




#44
 2,2,4-Trimethylpentane
 Concen: 0.033 ppbv
 RT: 7.89 min Scan# 1588
 Delta R.T. 0.03 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

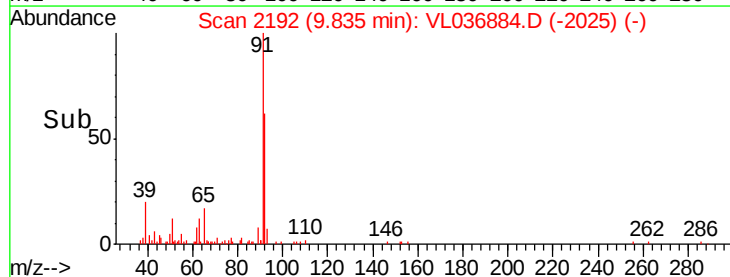
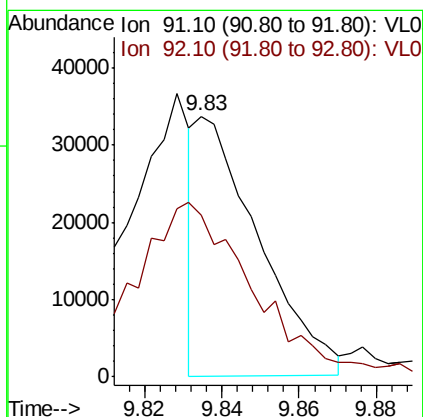
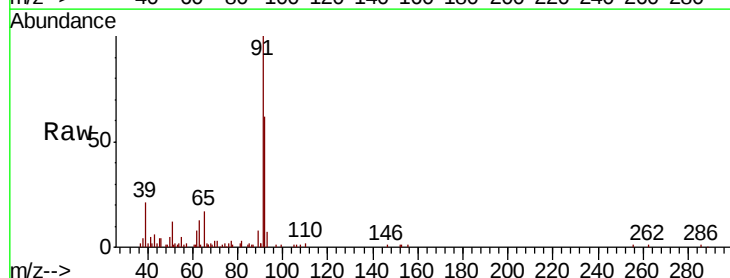
Instrument :
 MSVOA_L
 ClientSampleId :

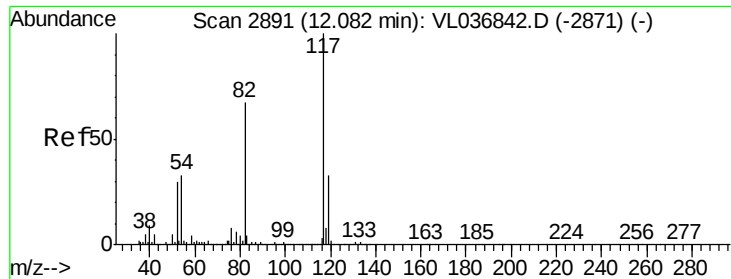
Tot Ion: 57 Resp: 16160
 Ion Ratio Lower Upper
 57 100
 41 108.6 28.2 42.4#
 56 0.0 25.9 38.9#



#53
 Toluene
 Concen: 0.128 ppbv
 RT: 9.83 min Scan# 2192
 Delta R.T. 0.04 min
 Lab File: VL036884.D
 Acq: 28 Apr 2021 18:02

Tgt Ion: 91 Resp: 37729
 Ion Ratio Lower Upper
 91 100
 92 136.3 49.0 73.4#

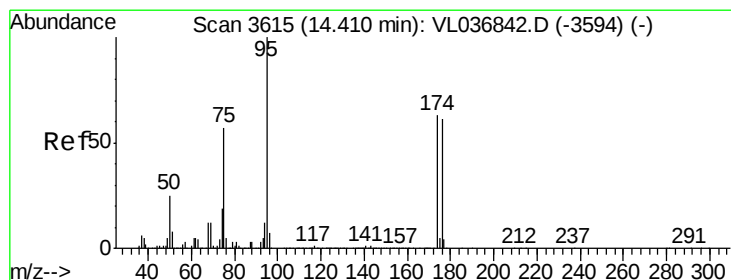
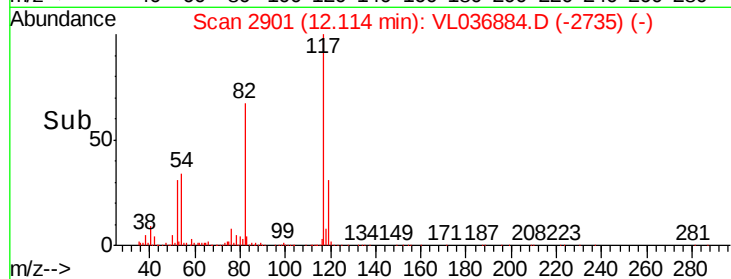
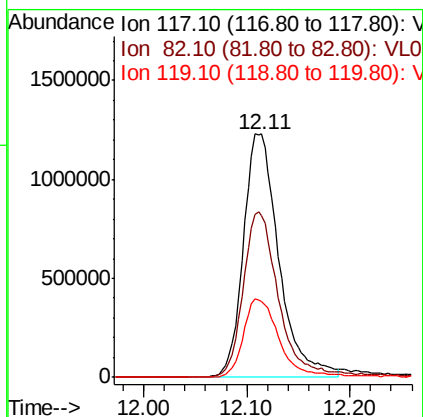
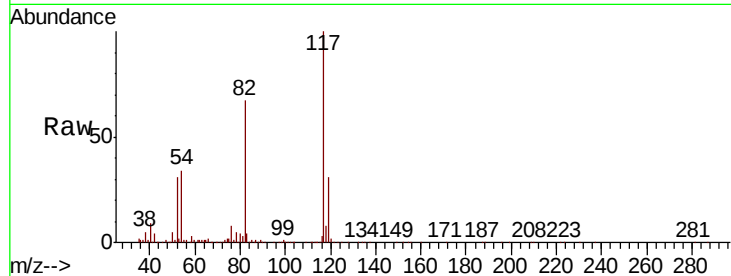




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2942773
Ion Ratio Lower Upper
117 100
82 69.9 53.5 80.3
119 34.0 25.6 38.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.633 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.03 min
Lab File: VL036884.D
Acq: 28 Apr 2021 18:02

Tgt Ion: 95 Resp: 2275535
Ion Ratio Lower Upper
95 100
174 68.9 52.2 78.2
175 4.5 4.0 6.0

