

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036602.D
 Acq On : 31 Mar 2021 15:05
 Operator : SY/AP
 Sample : M1840-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:26:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1646422	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3932364	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3443701	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2634659	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

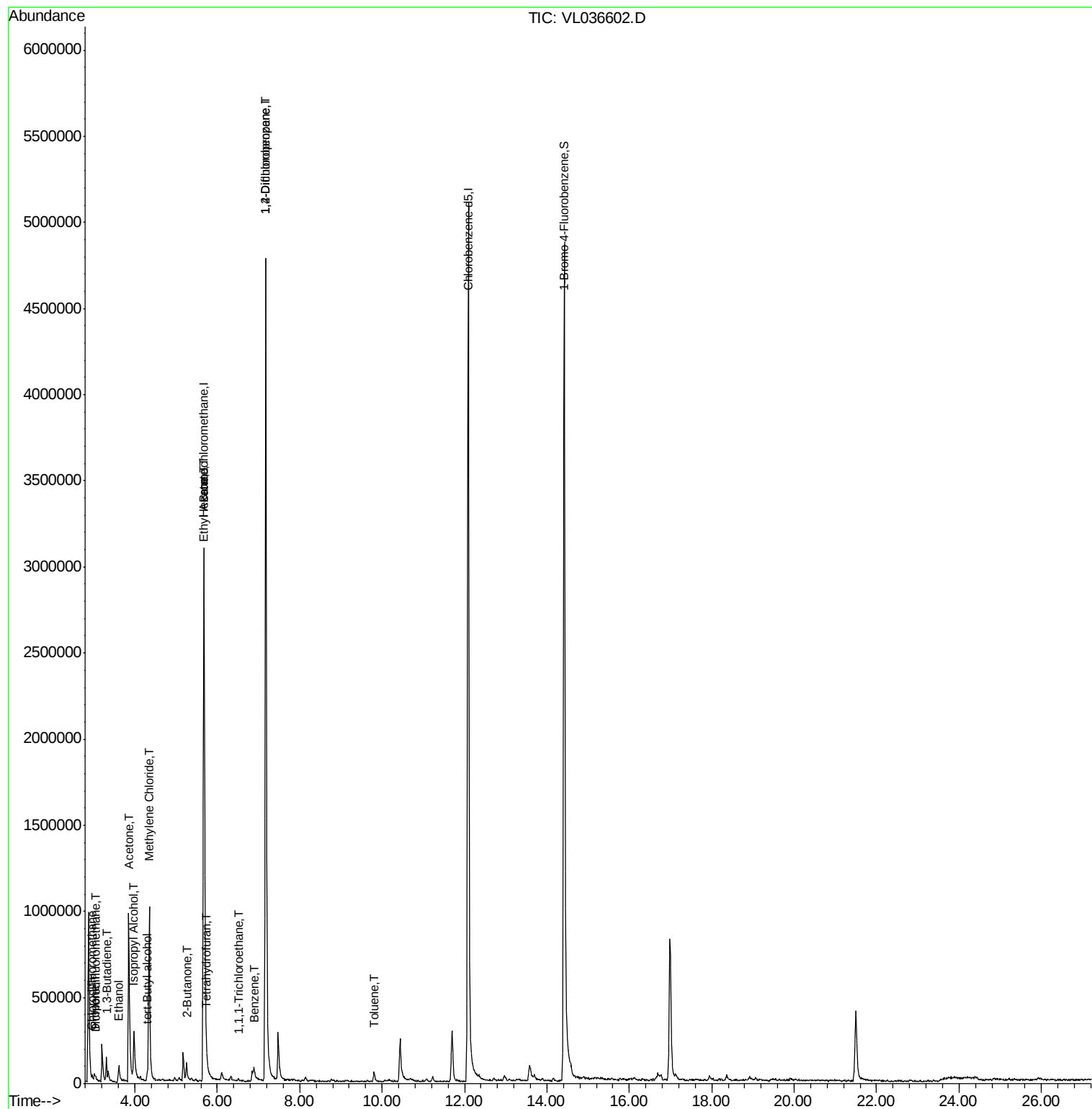
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	7356	0.027 ppbv	95
3) Chlorodifluoromethane	2.96	51	23826	0.077 ppbv #	72
9) Propene	3.02	41	6712	0.068 ppbv #	22
13) Ethanol	3.60	45	44644	3.823 ppbv #	34
15) Acetone	3.85	43	1294448	7.988 ppbv	96
16) 1,3-Butadiene	3.32	39	3896	0.035 ppbv	98
17) tert-Butyl alcohol	4.30	59	56415	0.400 ppbv #	88
19) Isopropyl Alcohol	3.98	45	370053	4.151 ppbv #	97
20) Methylene Chloride	4.34	84	400112	5.274 ppbv	95
25) Ethyl Acetate	5.69	43	323665	0.840 ppbv #	78
26) Hexane	5.68	57	455642	2.549 ppbv #	46
32) 1,1,1-Trichloroethane	6.52	97	6442	0.022 ppbv	94
34) 2-Butanone	5.25	43	119458	0.622 ppbv #	83
36) Benzene	6.89	78	30395	0.084 ppbv #	88
39) 1,2-Dichloropropane	7.17	63	1075339	7.309 ppbv #	23
41) Tetrahydrofuran	5.75	42	2089	0.024 ppbv #	65
53) Toluene	9.81	91	25901	0.067 ppbv #	39

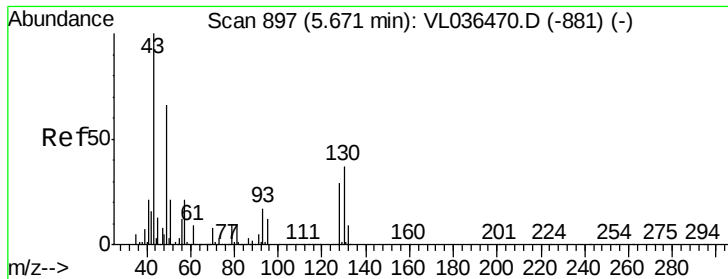
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

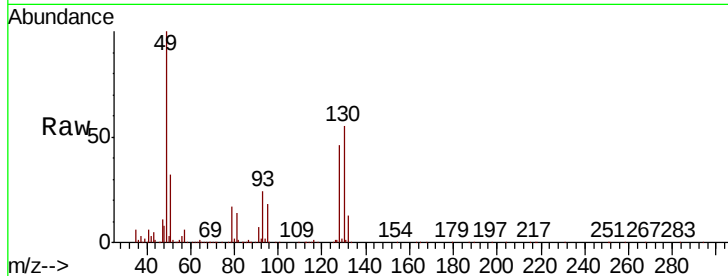
Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1646422

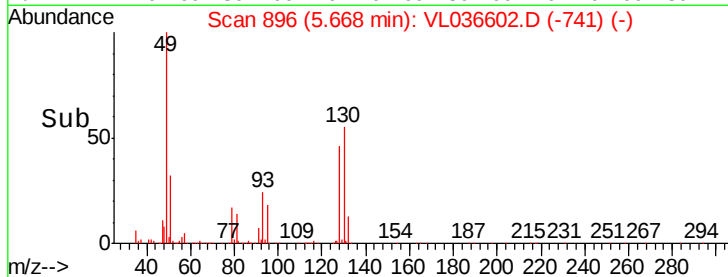
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.5	70.6
130	58.8	29.1	87.4



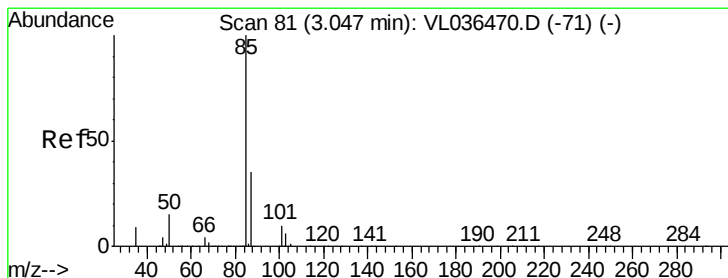
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.027 ppbv

RT: 3.04 min Scan# 80

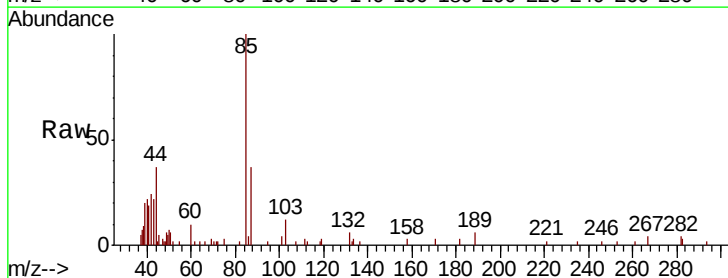
Delta R.T. -0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

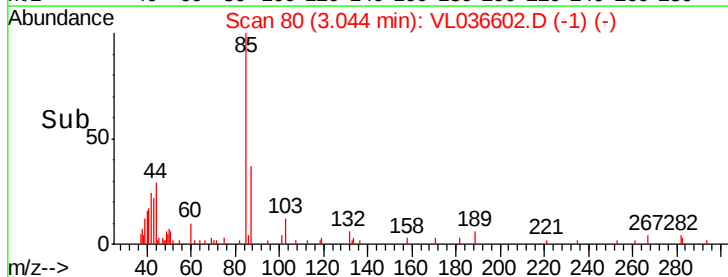
Tgt Ion: 85 Resp: 7356

Ion	Ratio	Lower	Upper
85	100		
87	37.9	27.8	41.8

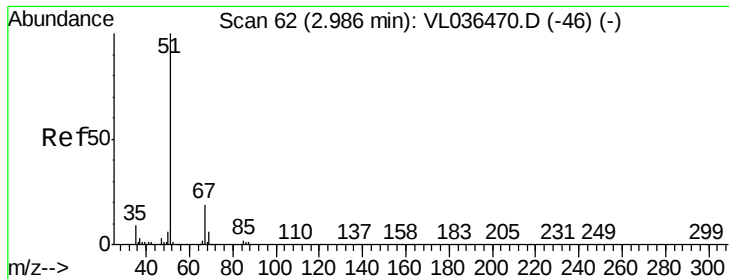


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.077 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :

MSVOA_L

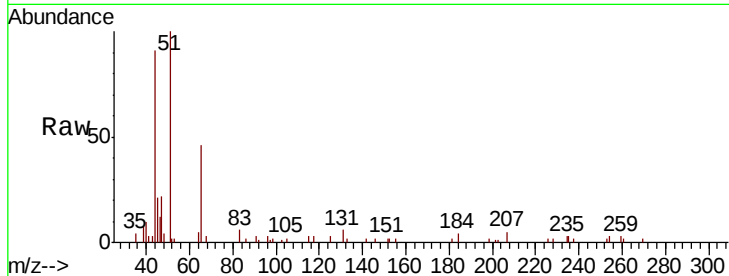
ClientSampleId :

Tot Ion: 51 Resp: 23826

Ion Ratio Lower Upper

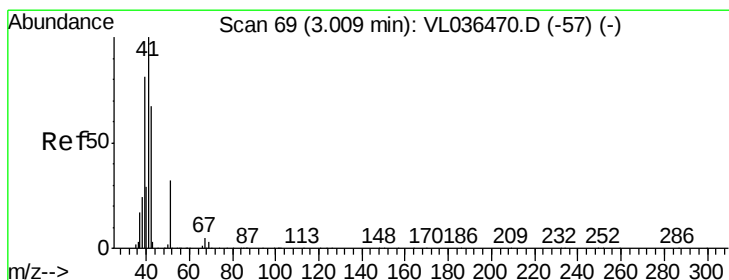
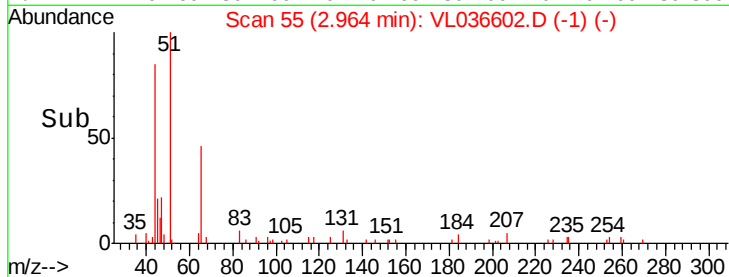
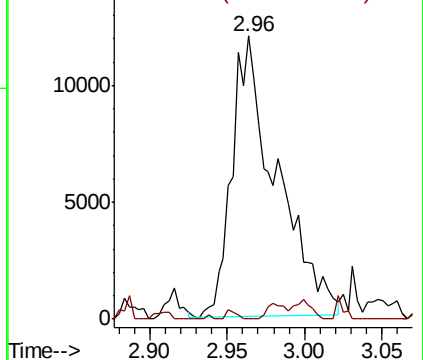
51 100

67 5.9 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.068 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036602.D

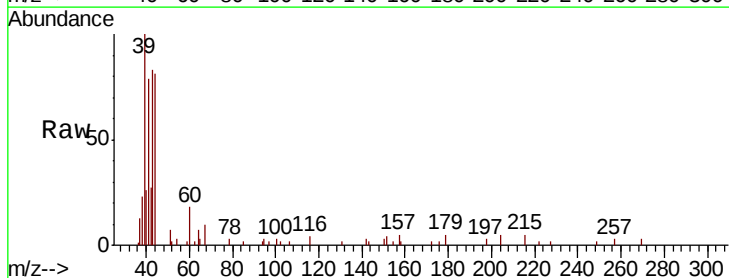
Acq: 31 Mar 2021 15:05

Tgt Ion: 41 Resp: 6712

Ion Ratio Lower Upper

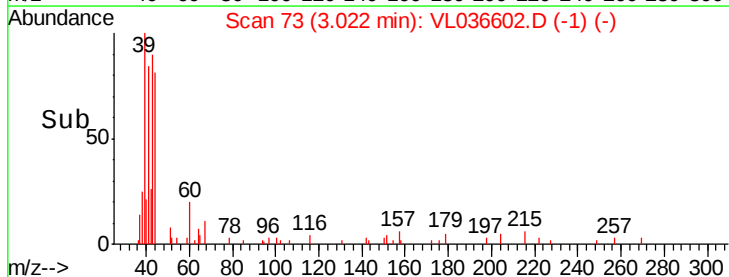
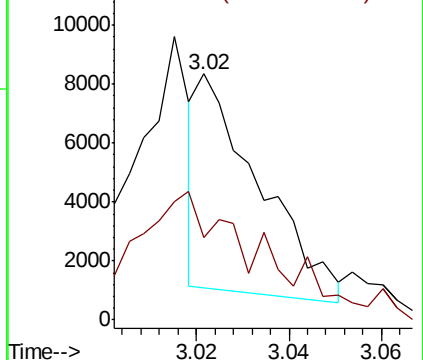
41 100

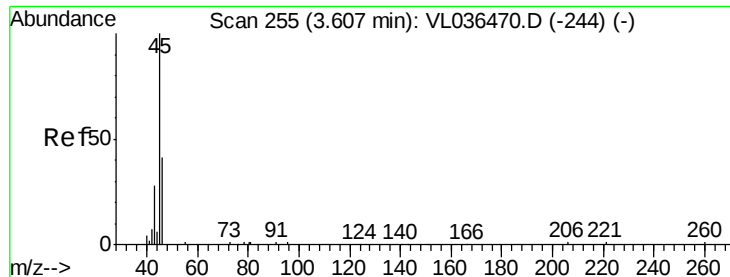
42 135.8 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

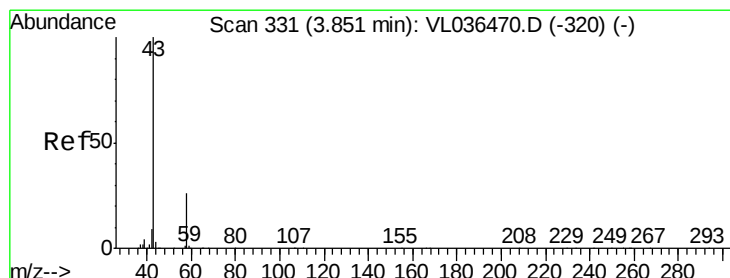
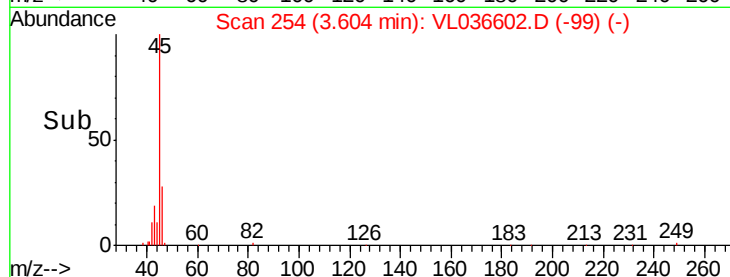
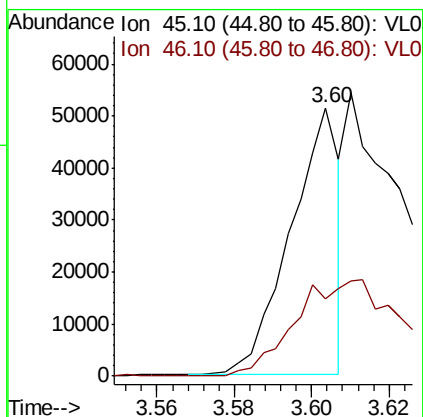
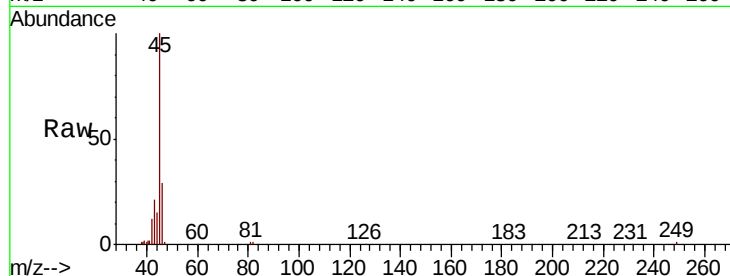




#13
Ethanol
Concen: 3.823 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

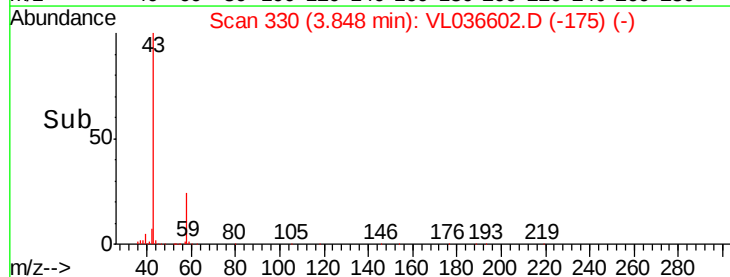
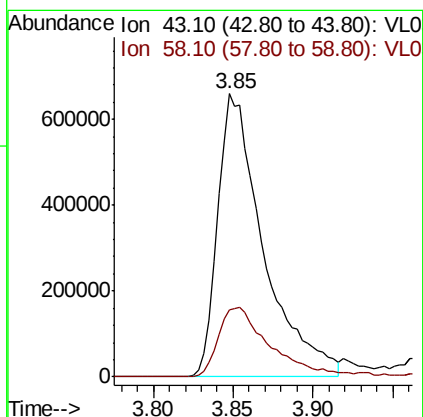
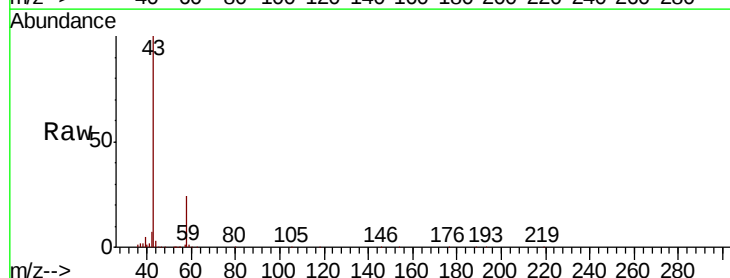
Instrument :
MSVOA_L
ClientSampleId :

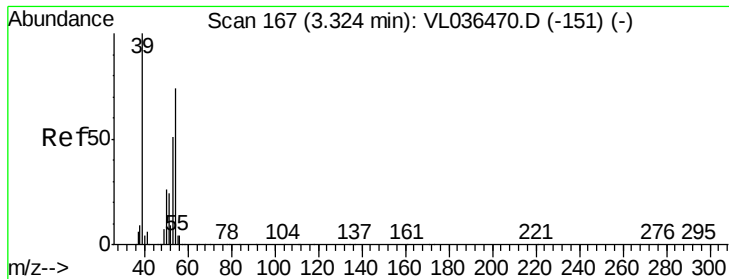
Tot Ion: 45 Resp: 44644
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#



#15
Acetone
Concen: 7.988 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

Tgt Ion: 43 Resp: 1294448
Ion Ratio Lower Upper
43 100
58 28.6 21.2 31.8

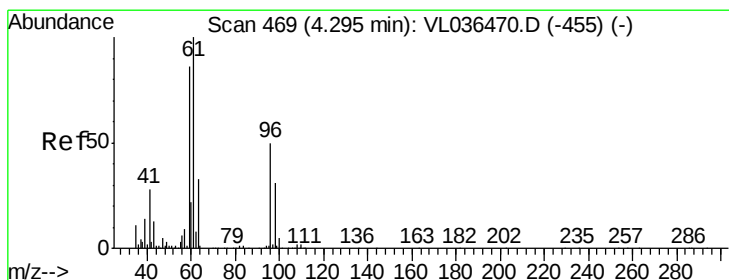
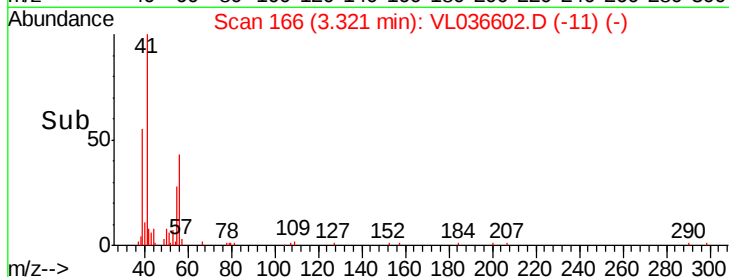
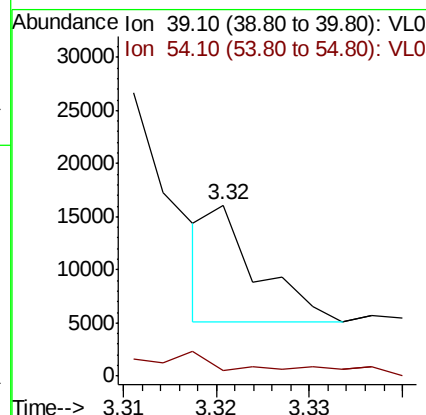
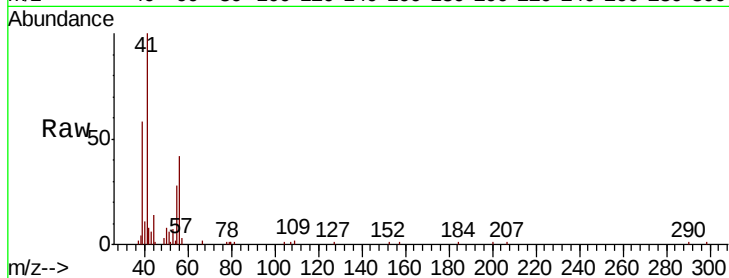




#16
 1,3-Butadiene
 Concen: 0.035 ppbv
 RT: 3.32 min Scan# 166
 Delta R.T. -0.00 min
 Lab File: VL036602.D
 Acq: 31 Mar 2021 15:05

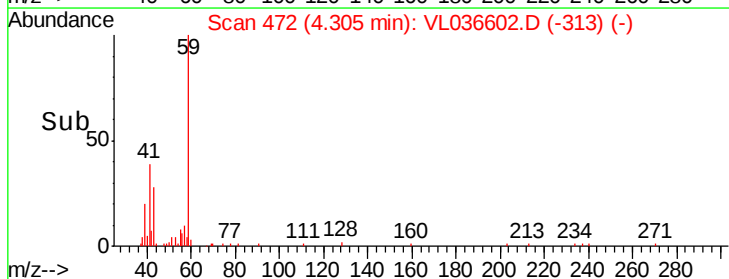
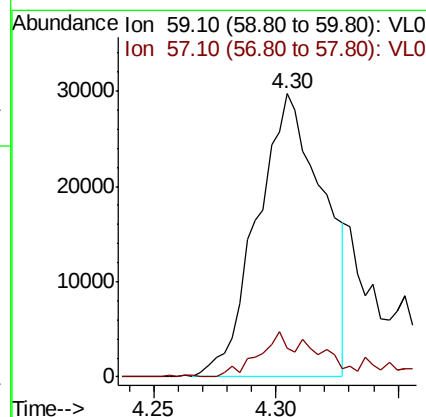
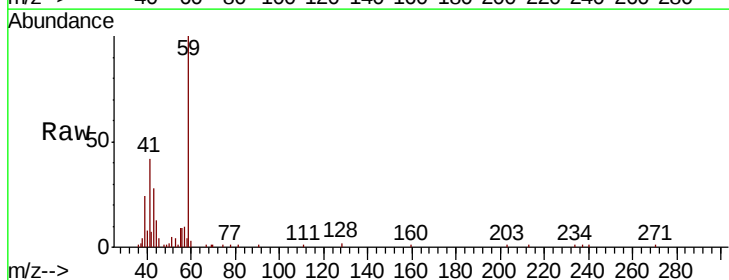
Instrument :
 MSVOA_L
 ClientSampled :

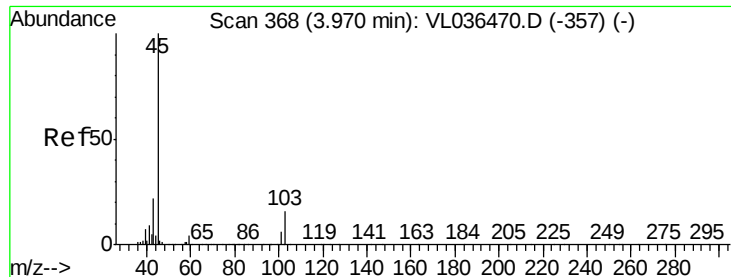
Tot Ion: 39 Resp: 3896
 Ion Ratio Lower Upper
 39 100
 54 72.0 58.8 88.2



#17
 tert-Butyl alcohol
 Concen: 0.400 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: VL036602.D
 Acq: 31 Mar 2021 15:05

Tgt Ion: 59 Resp: 56415
 Ion Ratio Lower Upper
 59 100
 57 15.1 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 4.151 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :

MSVOA_L

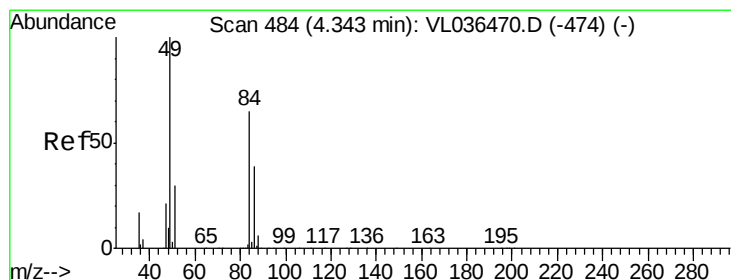
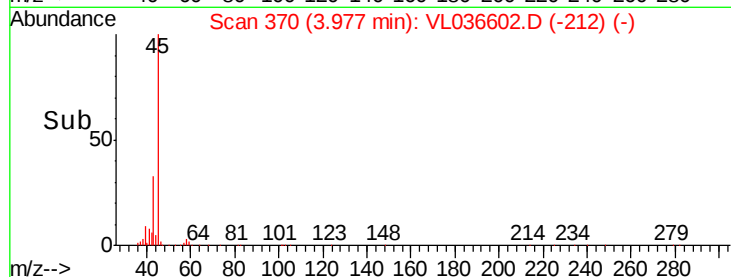
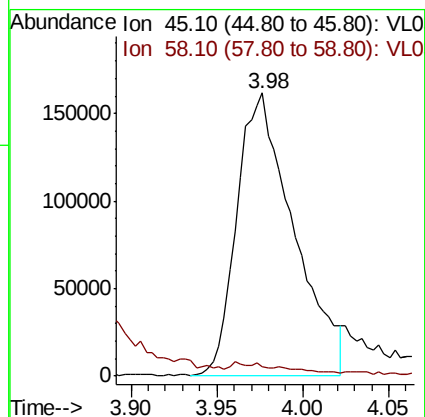
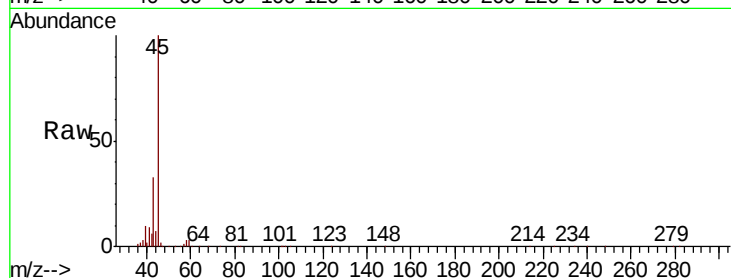
ClientSampled :

Tot Ion: 45 Resp: 370053

Ion Ratio Lower Upper

45 100

58 4.6 2.9 4.3#



#20

Methylene Chloride

Concen: 5.274 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Tgt Ion: 84 Resp: 400112

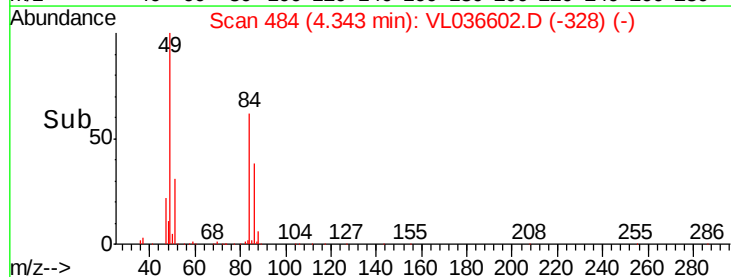
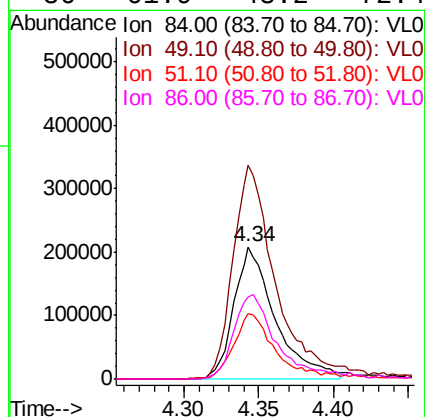
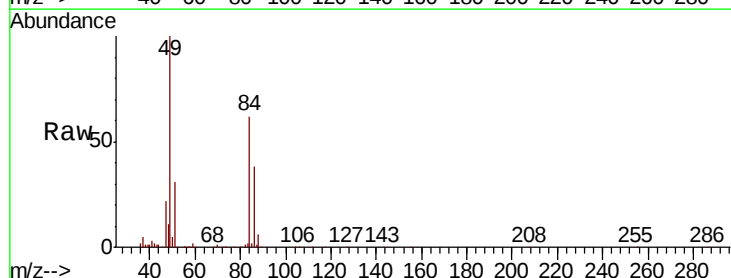
Ion Ratio Lower Upper

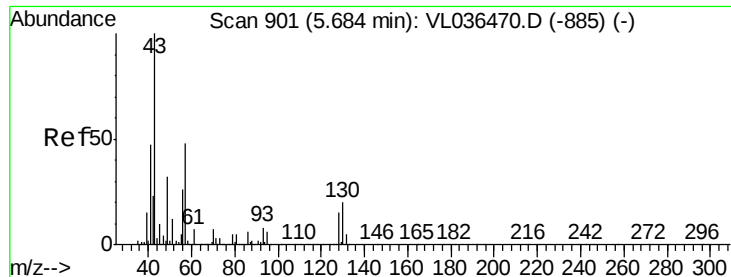
84 100

49 161.2 122.9 184.3

51 49.1 36.9 55.3

86 61.9 48.2 72.4

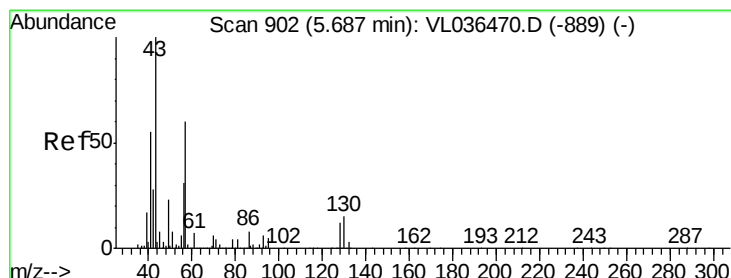
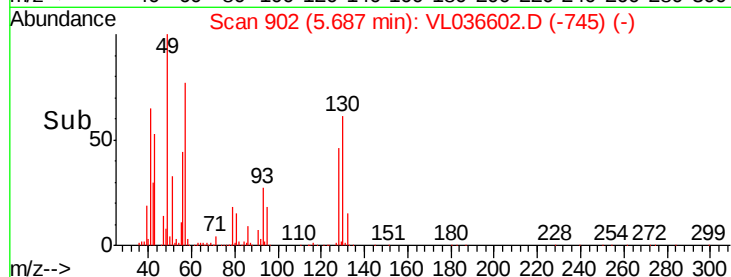
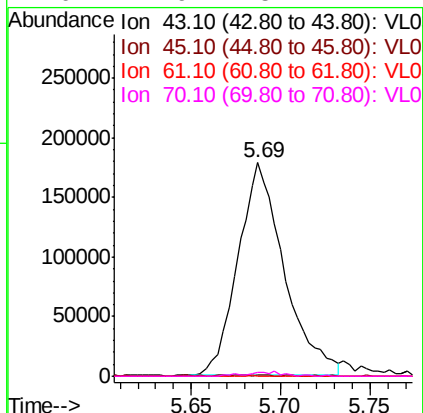
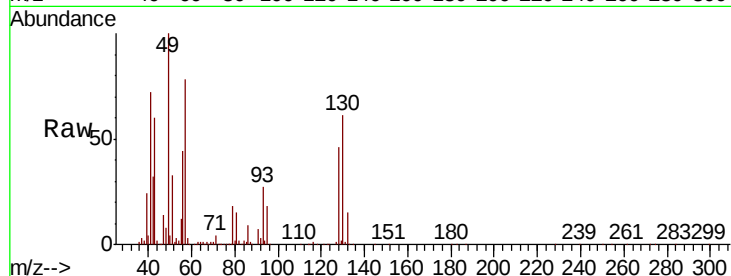




#25
Ethyl Acetate
Concen: 0.840 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

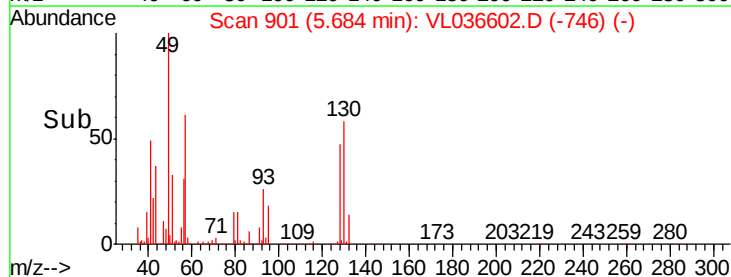
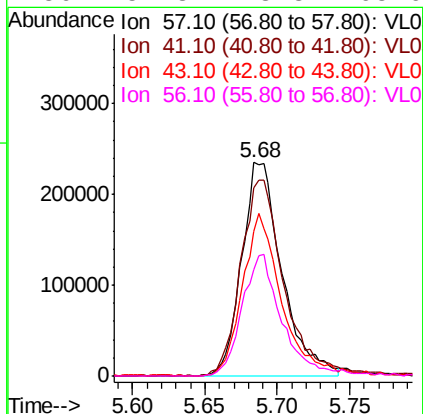
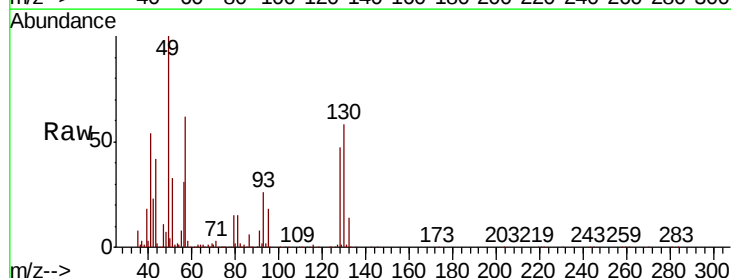
Instrument :
MSVOA_L
ClientSampleId :

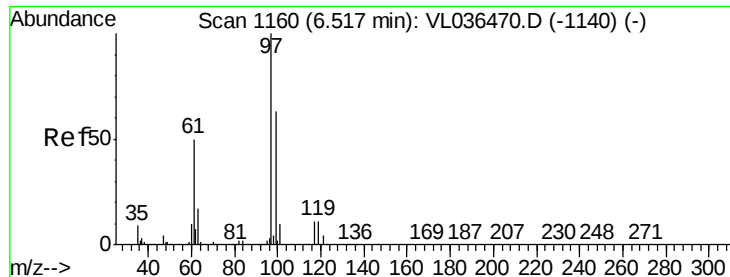
Tot Ion:	43	Resp:	323665
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.9	11.9#
61	0.4	7.4	11.2#
70	1.9	5.1	7.7#



#26
Hexane
Concen: 2.549 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

Tgt Ion:	57	Resp:	455642
Ion	Ratio	Lower	Upper
57	100		
41	100.3	77.2	115.8
43	74.6	173.8	260.6#
56	57.3	43.8	65.6





#32

1,1,1-Trichloroethane

Concen: 0.022 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :

MSVOA_L

ClientSampleId :

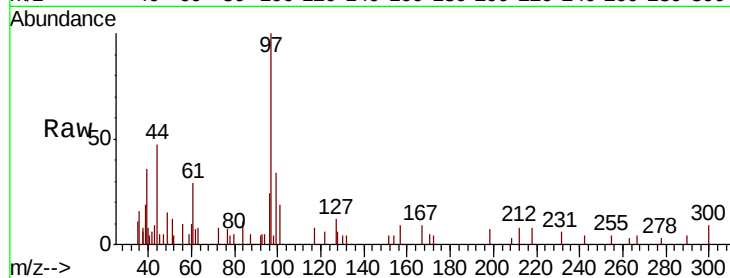
Tot Ion: 97 Resp: 6442

Ion Ratio Lower Upper

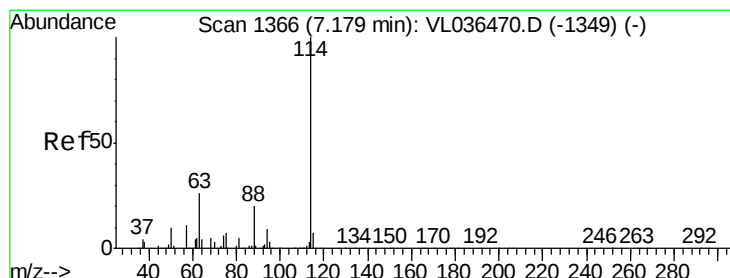
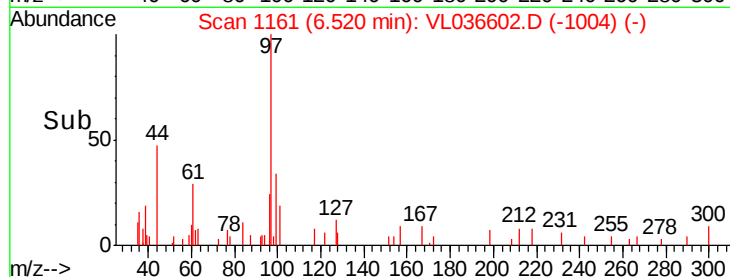
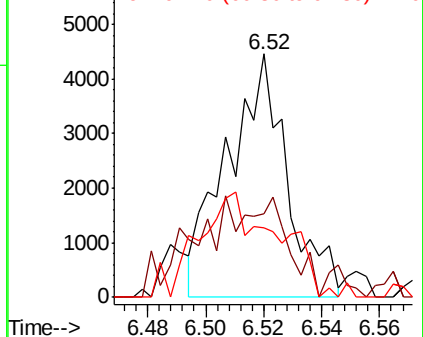
97 100

99 66.7 51.4 77.0

61 57.3 40.6 60.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

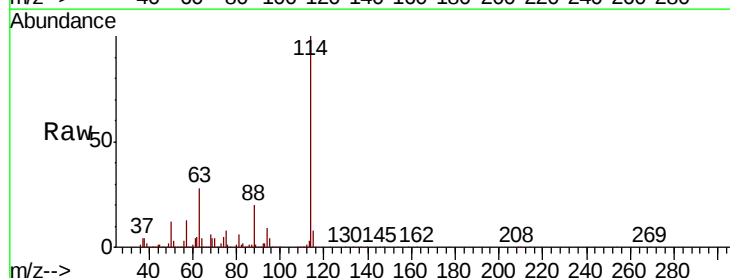
Tgt Ion: 114 Resp: 3932364

Ion Ratio Lower Upper

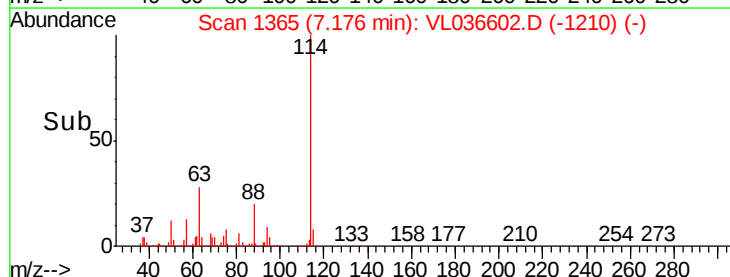
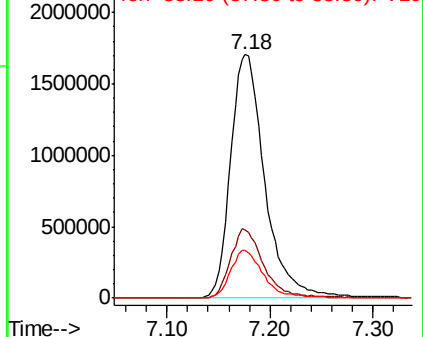
114 100

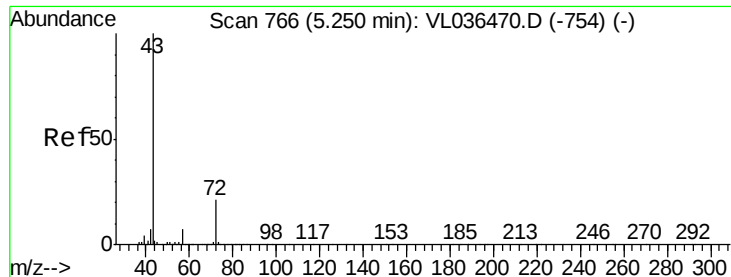
63 28.0 22.4 33.6

88 19.3 15.4 23.0



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

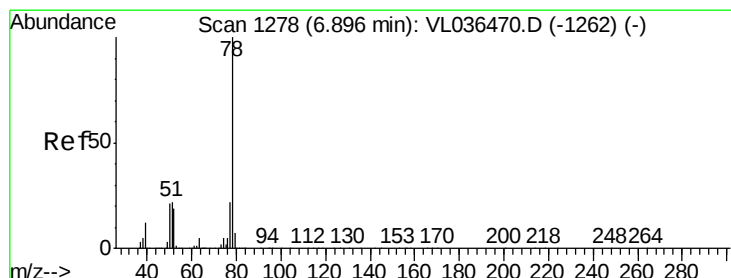
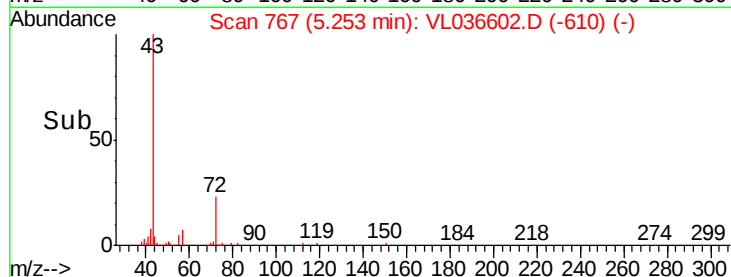
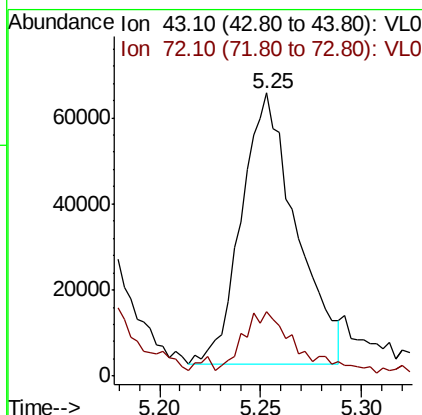
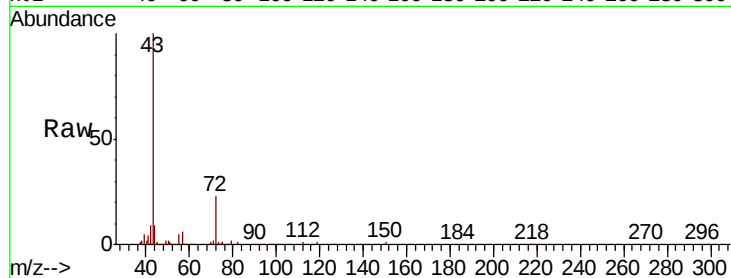




#34
2-Butanone
Concen: 0.622 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

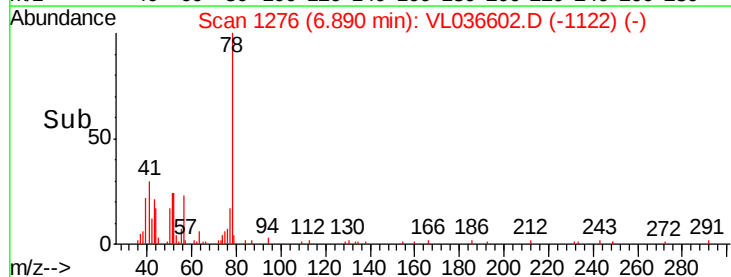
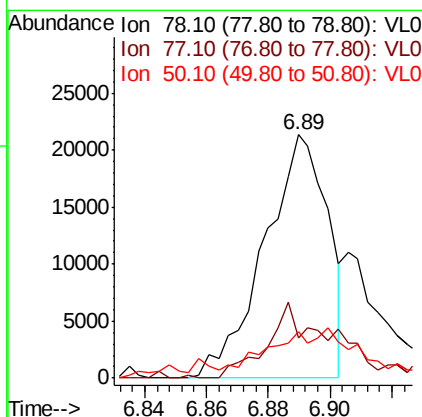
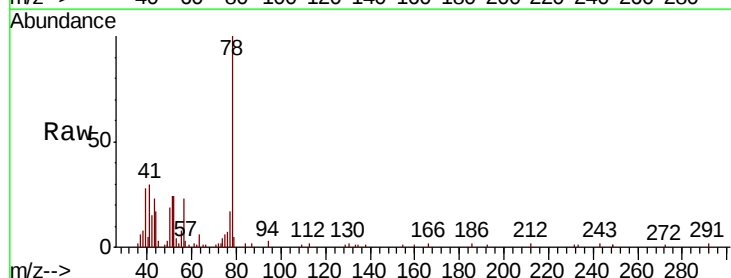
Instrument :
MSVOA_L
ClientSampleId :

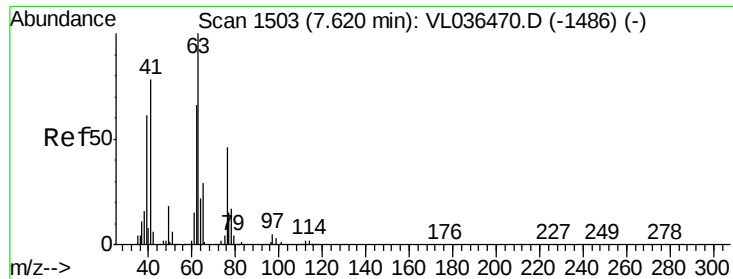
Tot Ion: 43 Resp: 119458
Ion Ratio Lower Upper
43 100
72 29.3 17.0 25.6#



#36
Benzene
Concen: 0.084 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036602.D
Acq: 31 Mar 2021 15:05

Tgt Ion: 78 Resp: 30395
Ion Ratio Lower Upper
78 100
77 15.4 18.0 27.0#
50 16.8 16.5 24.7

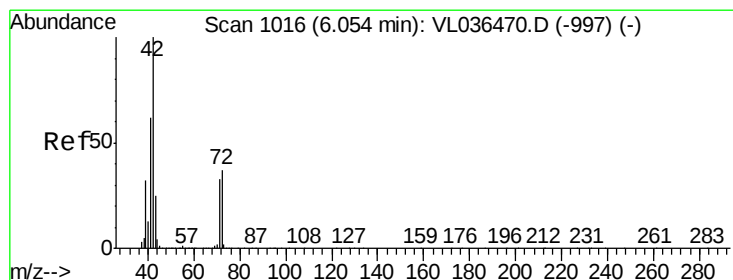
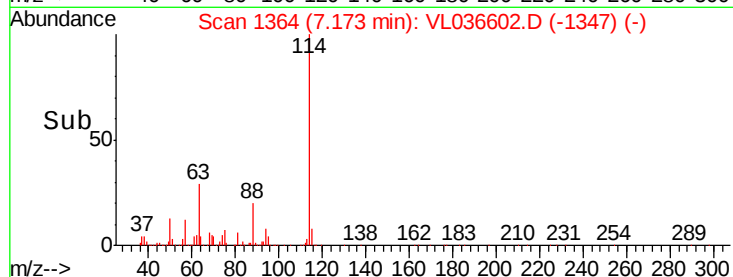
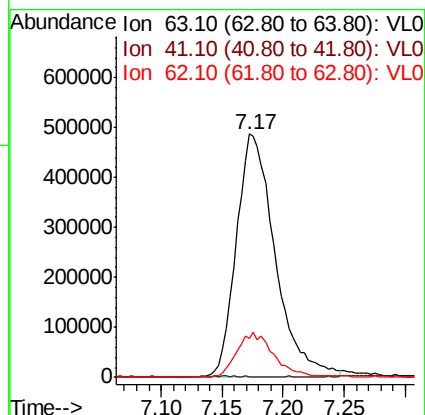
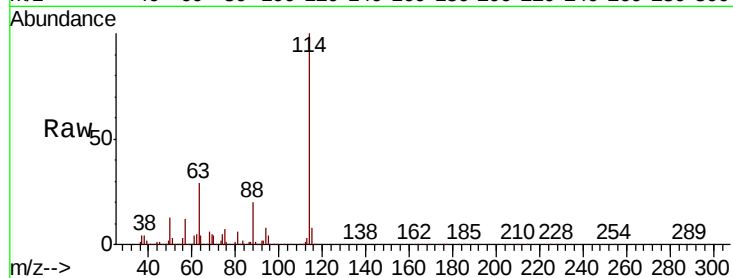




#39
 1,2-Dichloropropane
 Concen: 7.309 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL036602.D
 Acq: 31 Mar 2021 15:05

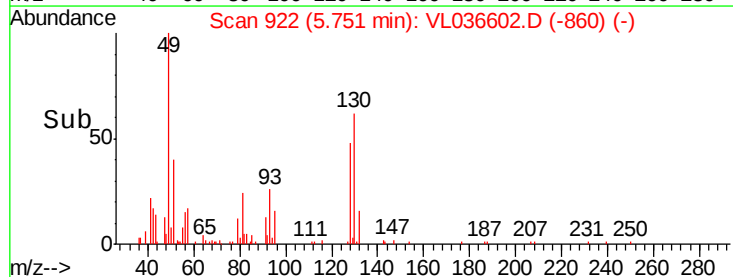
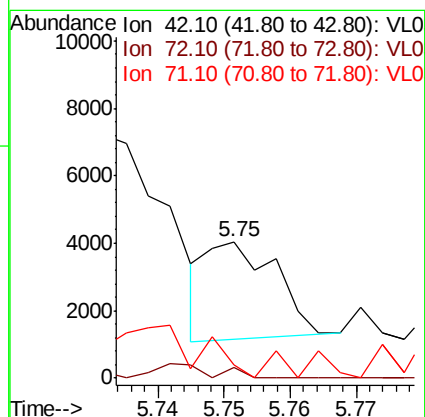
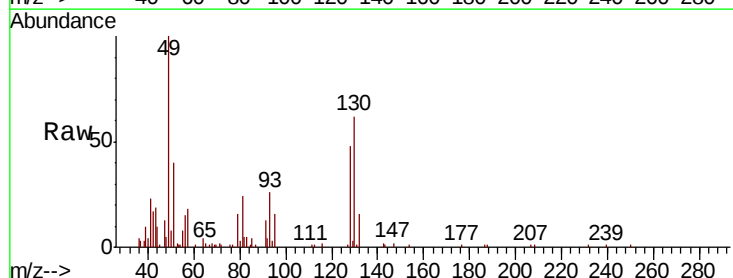
Instrument :
 MSVOA_L
 ClientSampled :

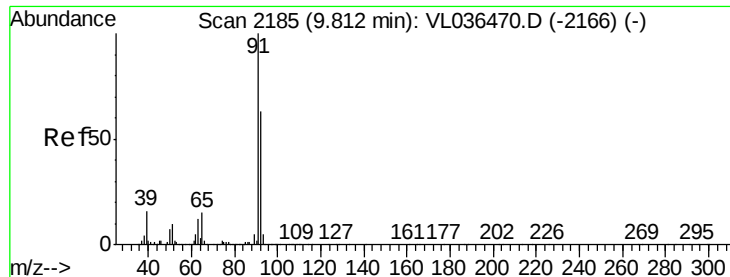
Tot Ion: 63 Resp: 1075339
 Ion Ratio Lower Upper
 63 100
 41 0.1 62.4 93.6#
 62 15.9 52.8 79.2#



#41
 Tetrahydrofuran
 Concen: 0.024 ppbv
 RT: 5.75 min Scan# 922
 Delta R.T. -0.30 min
 Lab File: VL036602.D
 Acq: 31 Mar 2021 15:05

Tgt Ion: 42 Resp: 2089
 Ion Ratio Lower Upper
 42 100
 72 27.5 27.6 41.4#
 71 0.0 27.0 40.4#





#53

Toluene

Concen: 0.067 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :

MSVOA_L

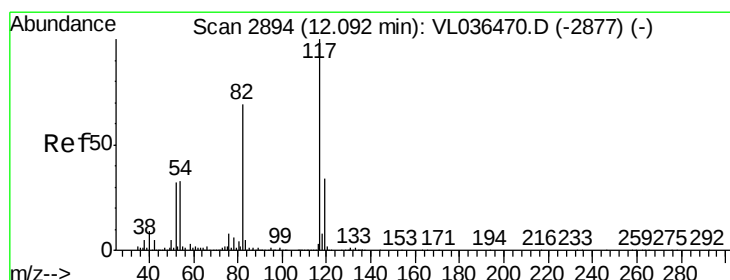
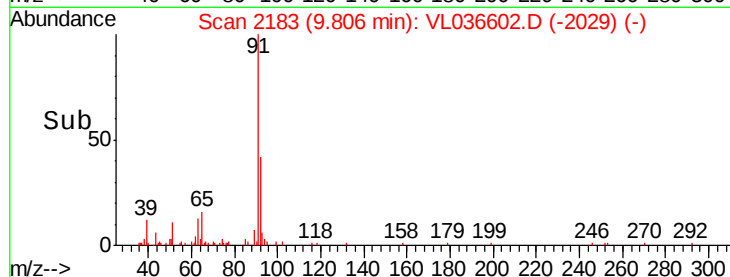
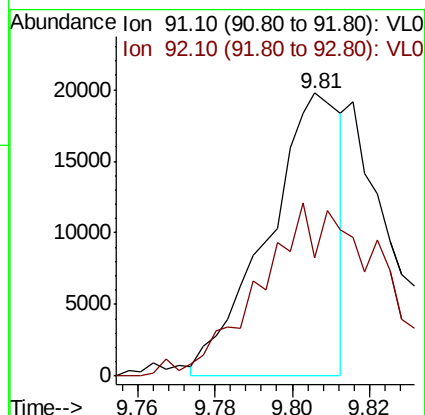
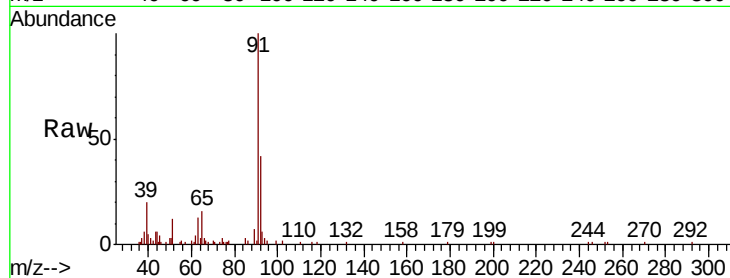
ClientSampleId :

Tot Ion: 91 Resp: 25901

Ion Ratio Lower Upper

91 100

92 107.3 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

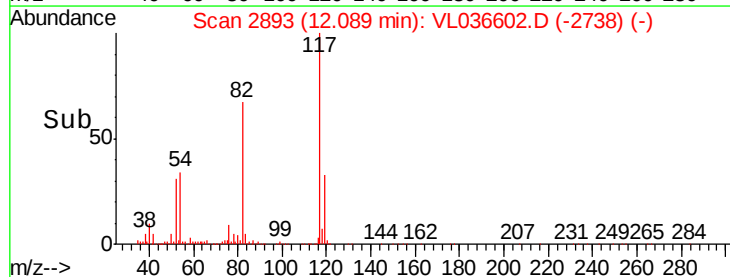
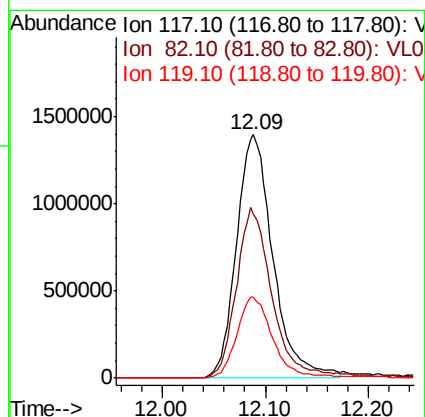
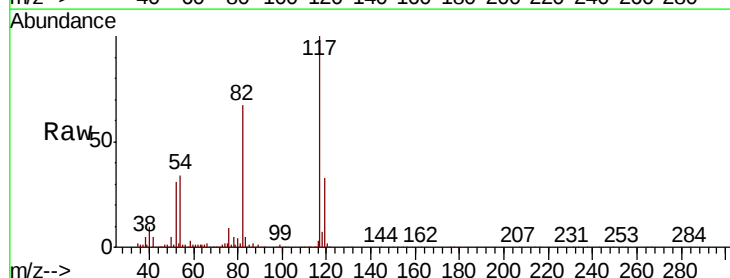
Tgt Ion: 117 Resp: 3443701

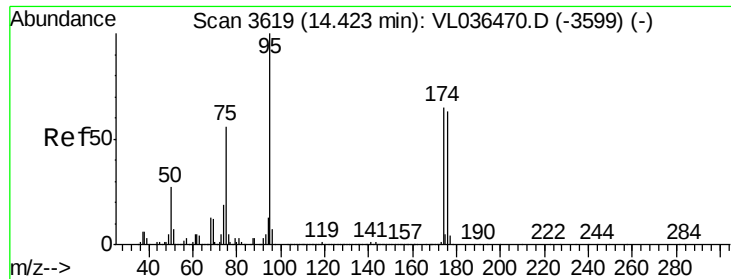
Ion Ratio Lower Upper

117 100

82 70.2 57.4 86.0

119 33.5 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.599 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036602.D

Acq: 31 Mar 2021 15:05

Instrument :

MSVOA_L

ClientSampleId :

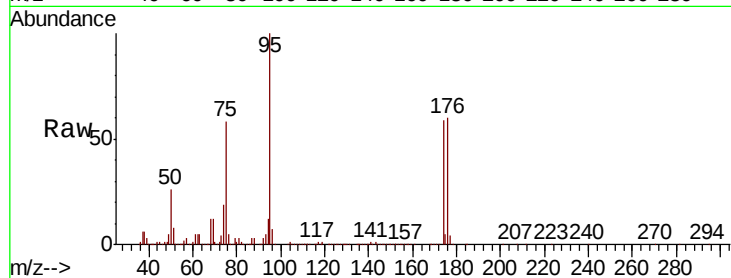
Tot Ion: 95 Resp: 2634659

Ion Ratio Lower Upper

95 100

174 65.5 51.0 76.6

175 4.6 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

