

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036534.D
 Acq On : 27 Mar 2021 4:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 05:53:25 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	5.66	49	1350020	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2882454	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2521158	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1951775	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

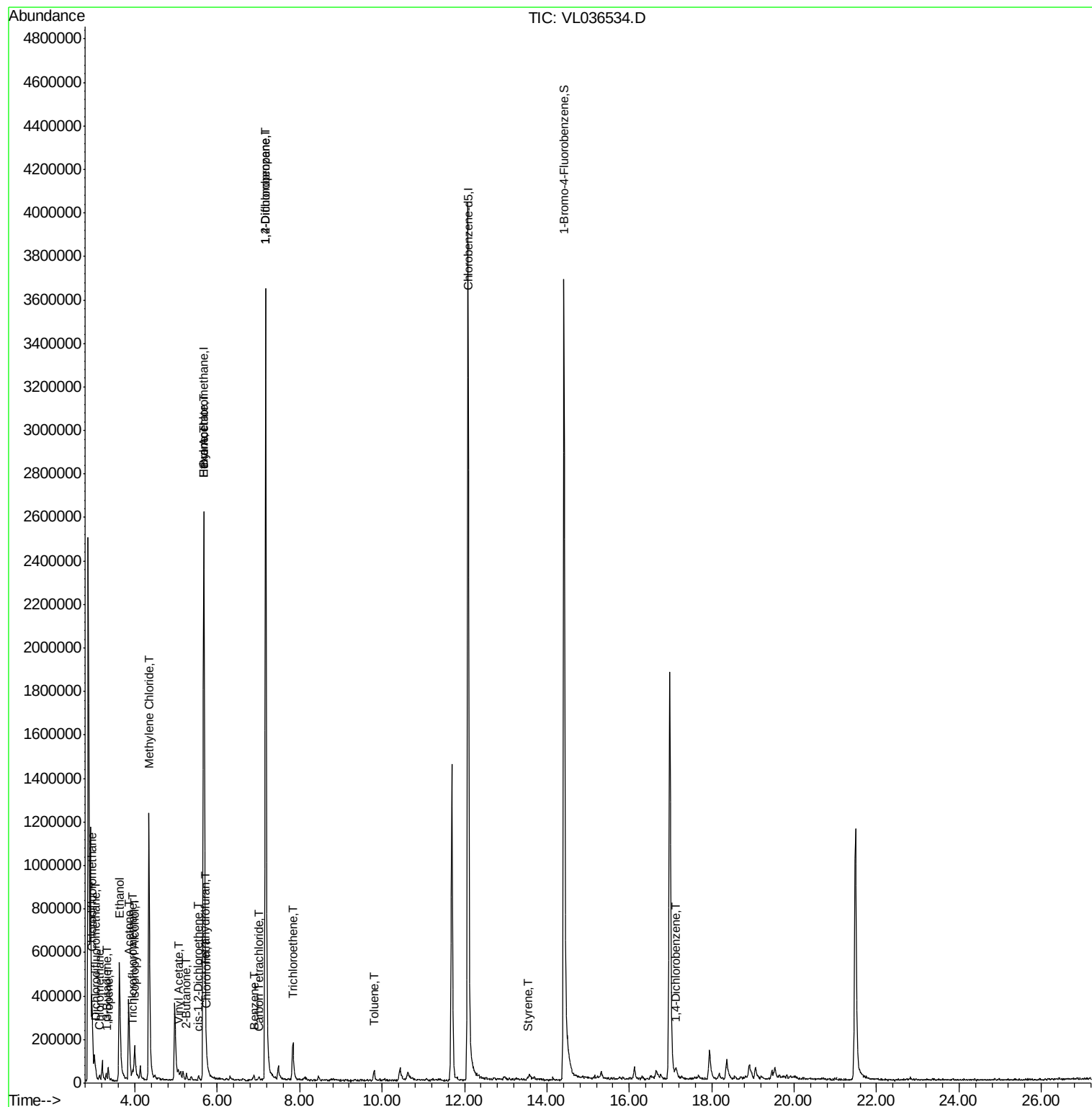
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	15370	0.070 ppbv #	76
3) Chlorodifluoromethane	2.96	51	277767	1.101 ppbv #	63
4) Chloromethane	3.14	50	22881	0.257 ppbv #	78
9) Propene	3.35	41	10655	0.133 ppbv	85
11) Trichlorofluoromethane	3.94	101	28069	0.125 ppbv	94
13) Ethanol	3.62	45	758668	79.229 ppbv	95
15) Acetone	3.85	43	488321	3.675 ppbv	100
16) 1,3-Butadiene	3.32	39	2140	0.023 ppbv	94
19) Isopropyl Alcohol	3.99	45	112164	1.535 ppbv #	86
20) Methylene Chloride	4.34	84	496701	7.984 ppbv	92
23) Vinyl Acetate	5.07	43	4691	0.021 ppbv #	60
25) Ethyl Acetate	5.68	43	433671	1.373 ppbv #	90
26) Hexane	5.68	57	380310	2.594 ppbv #	57
29) Chloroform	5.75	83	6194	0.026 ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	4695	0.033 ppbv #	64
34) 2-Butanone	5.25	43	21336	0.152 ppbv #	69
35) Carbon Tetrachloride	7.02	117	5106	0.023 ppbv #	62
36) Benzene	6.89	78	8188	0.031 ppbv #	83
38) Trichloroethene	7.83	130	40867	0.395 ppbv #	84
39) 1,2-Dichloropropane	7.17	63	798591	7.405 ppbv #	24
41) Tetrahydrofuran	5.73	42	5469	0.084 ppbv #	46
53) Toluene	9.81	91	10982	0.039 ppbv #	20
61) Styrene	13.53	104	3350	0.022 ppbv #	30
76) 1,4-Dichlorobenzene	17.14	146	7713	0.041 ppbv #	46

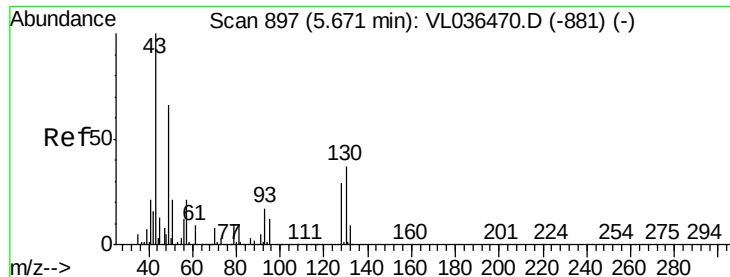
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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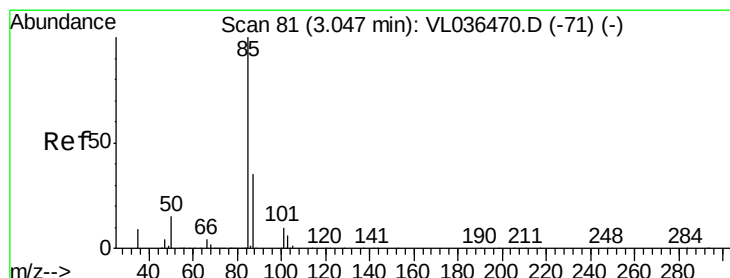
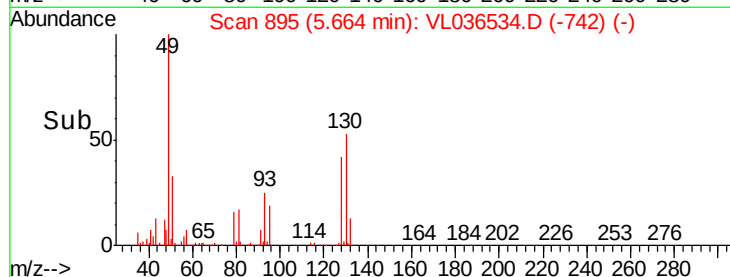
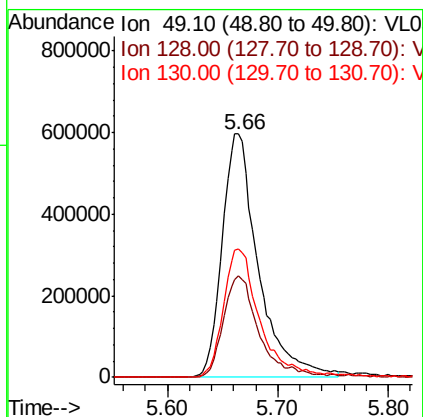
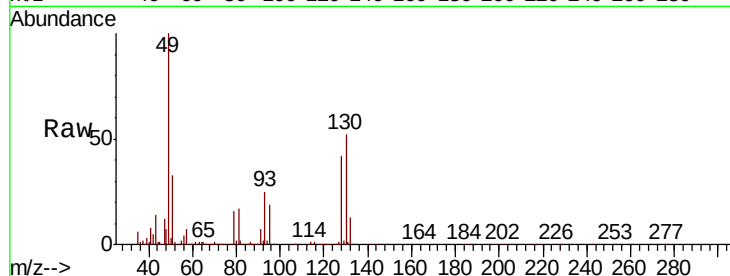




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

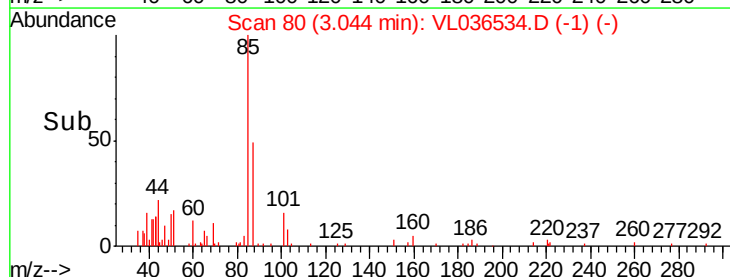
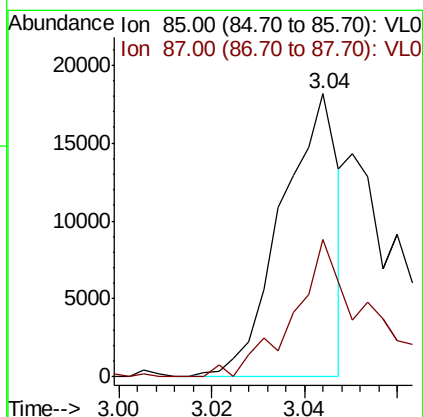
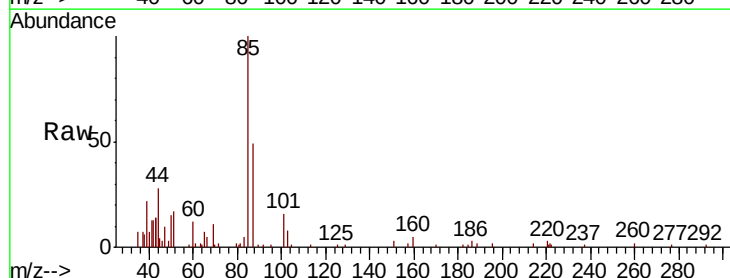
Instrument :
 MSVOA_L
 ClientSampled :

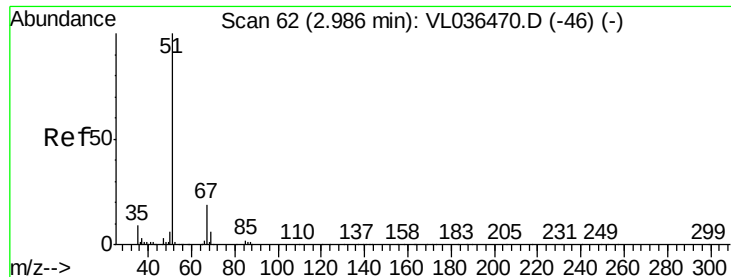
Tot Ion: 49 Resp: 1350020
 Ion Ratio Lower Upper
 49 100
 128 42.7 23.5 70.6
 130 54.5 29.1 87.4



#2
 Dichlorodifluoromethane
 Concen: 0.070 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.00 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion: 85 Resp: 15370
 Ion Ratio Lower Upper
 85 100
 87 48.5 27.8 41.8#





#3

Chlorodifluoromethane

Concen: 1.101 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

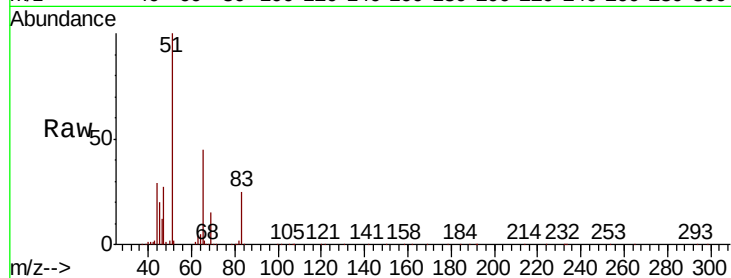
ClientSampleId :

Tot Ion: 51 Resp: 277767

Ion Ratio Lower Upper

51 100

67 2.1 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

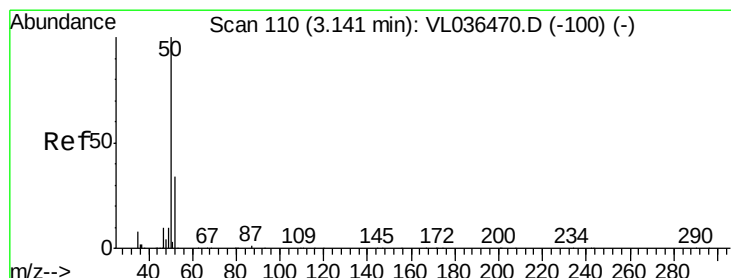
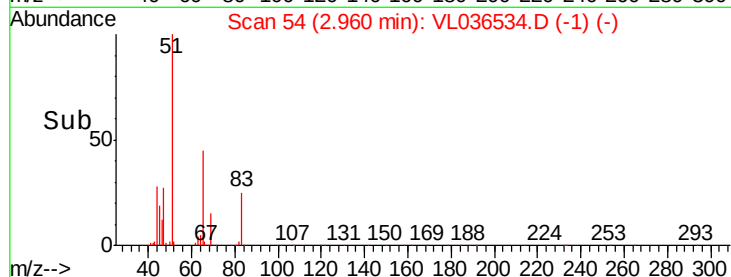
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.257 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036534.D

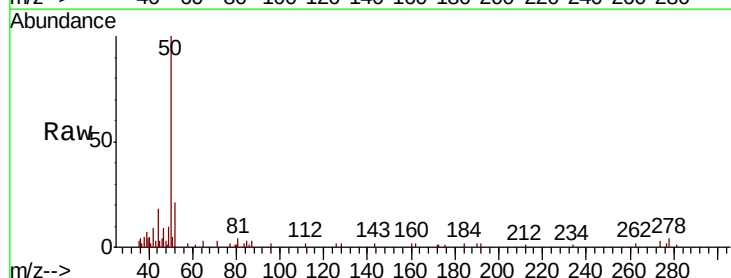
Acq: 27 Mar 2021 4:34

Tgt Ion: 50 Resp: 22881

Ion Ratio Lower Upper

50 100

52 21.0 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.14

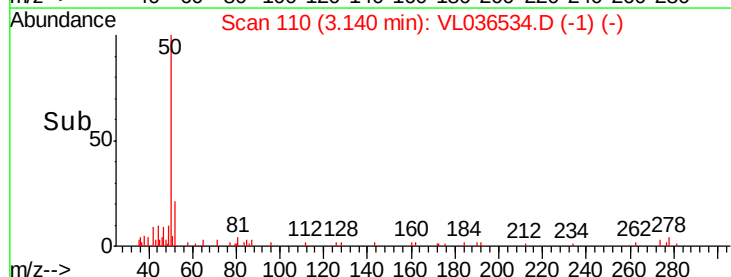
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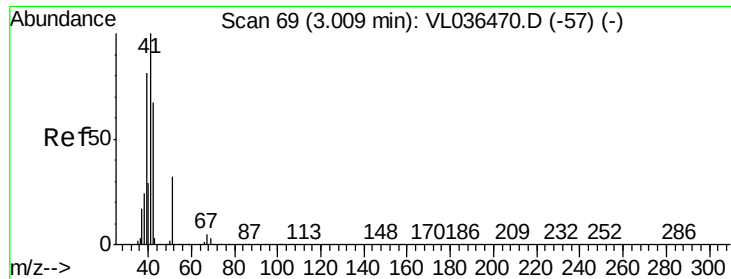
10000

5000

0

Time-->





#9

Propene

Concen: 0.133 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.34 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

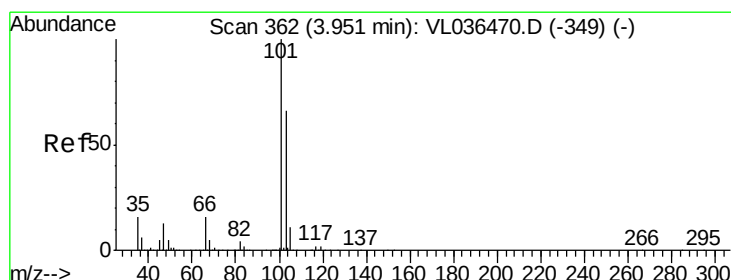
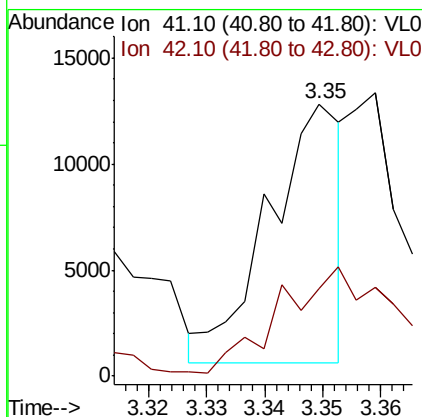
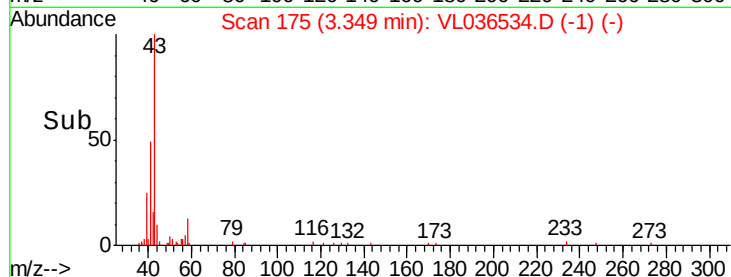
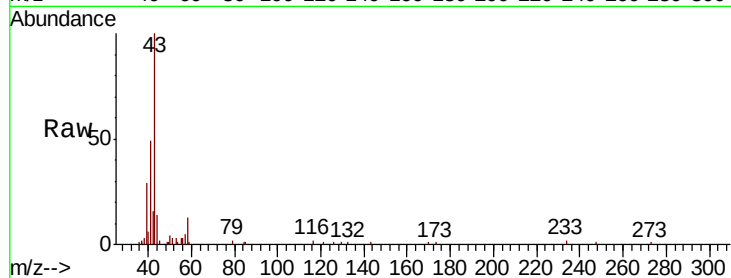
ClientSampleId :

Tot Ion: 41 Resp: 10655

Ion Ratio Lower Upper

41 100

42 83.5 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.125 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL036534.D

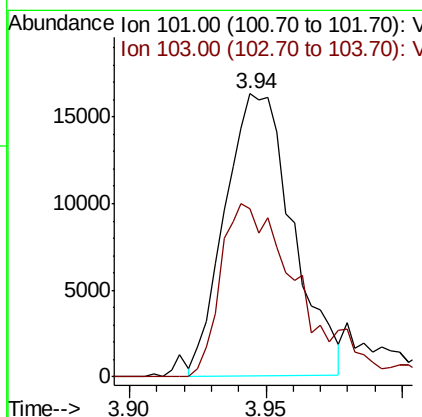
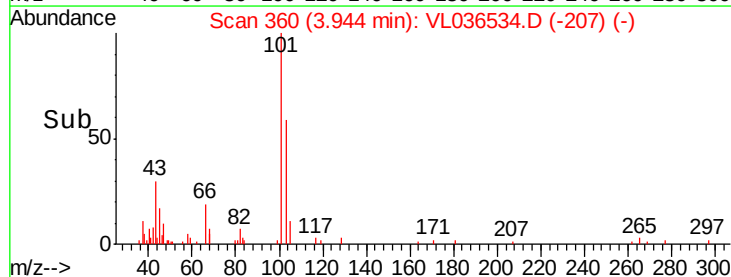
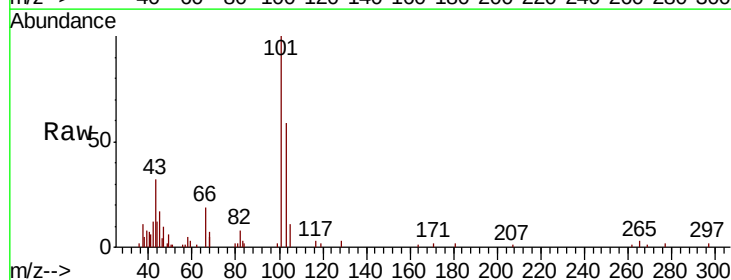
Acq: 27 Mar 2021 4:34

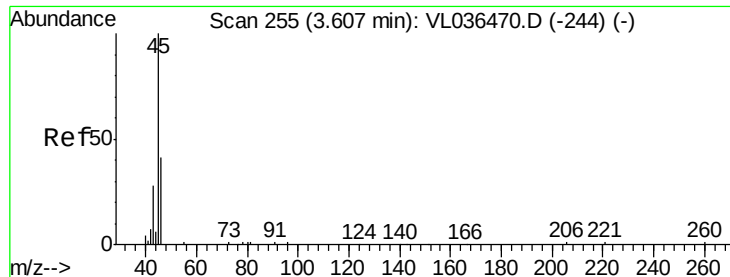
Tgt Ion: 101 Resp: 28069

Ion Ratio Lower Upper

101 100

103 61.1 52.5 78.7

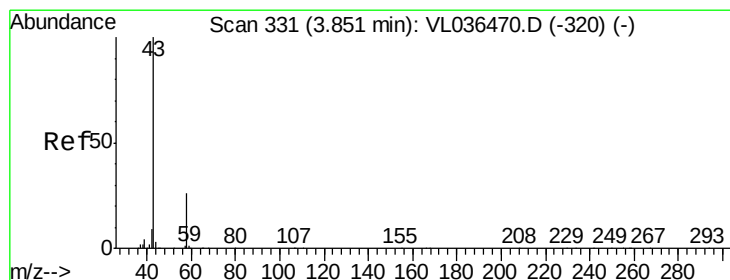
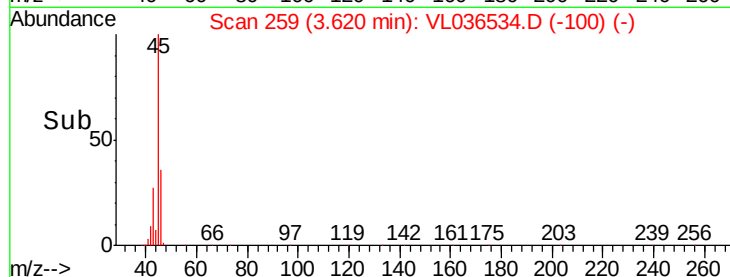
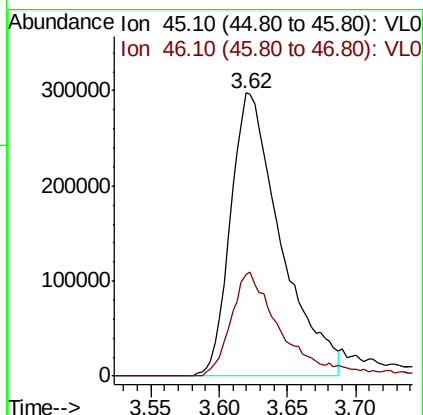
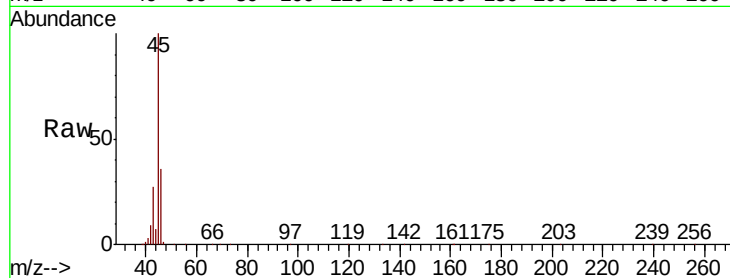




#13
Ethanol
Concen: 79.229 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

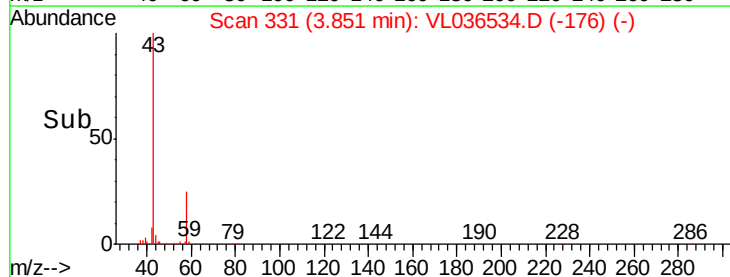
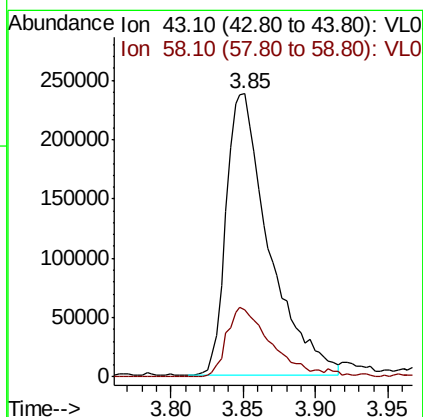
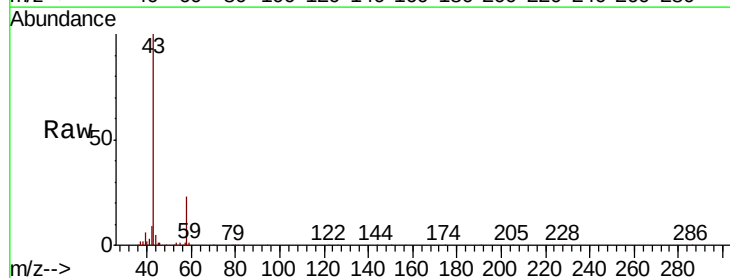
Instrument :
MSVOA_L
ClientSampleId :

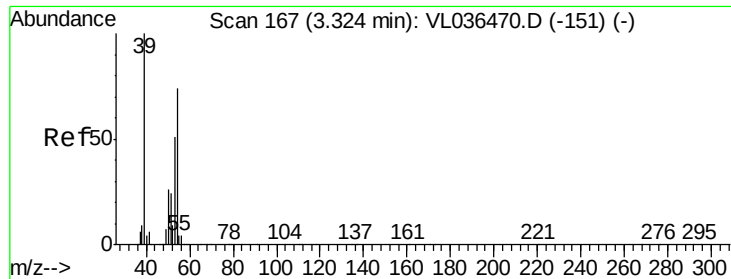
Tot Ion: 45 Resp: 758668
Ion Ratio Lower Upper
45 100
46 38.3 16.6 66.2



#15
Acetone
Concen: 3.675 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion: 43 Resp: 488321
Ion Ratio Lower Upper
43 100
58 26.5 21.2 31.8

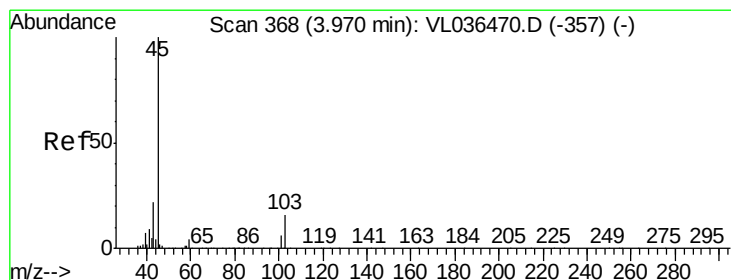
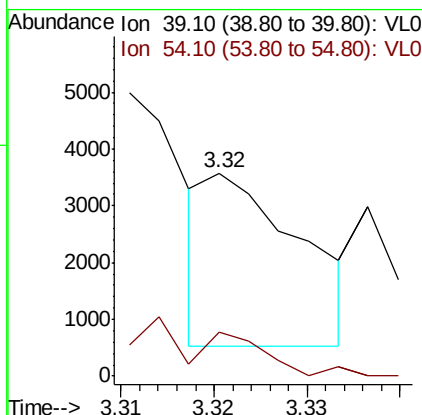
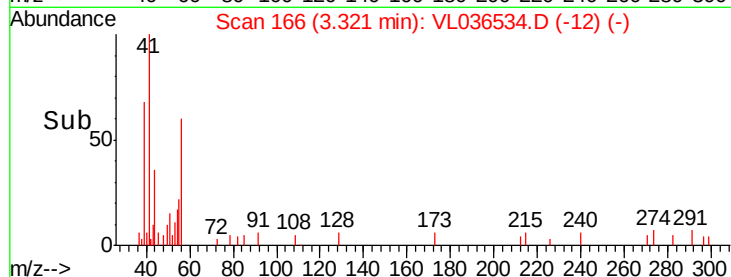
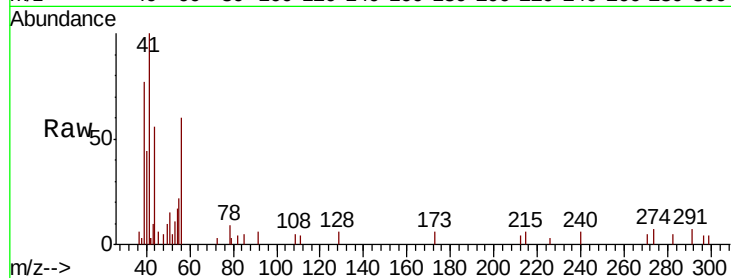




#16
 1,3-Butadiene
 Concen: 0.023 ppbv
 RT: 3.32 min Scan# 166
 Delta R.T. -0.00 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

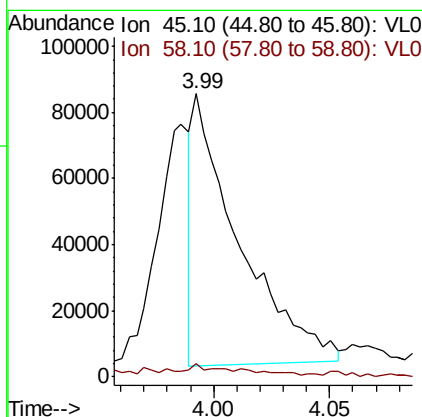
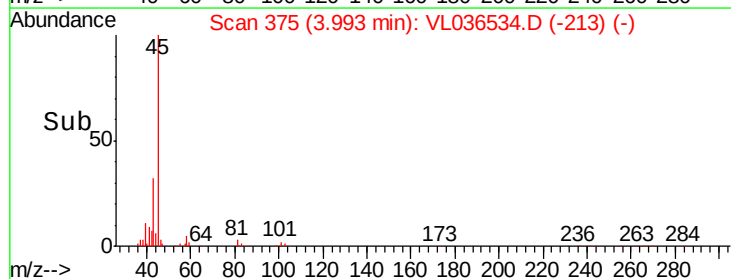
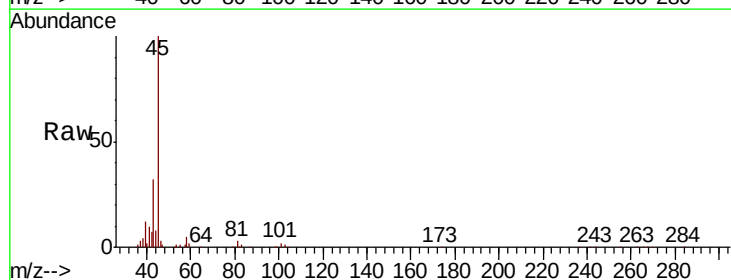
Instrument :
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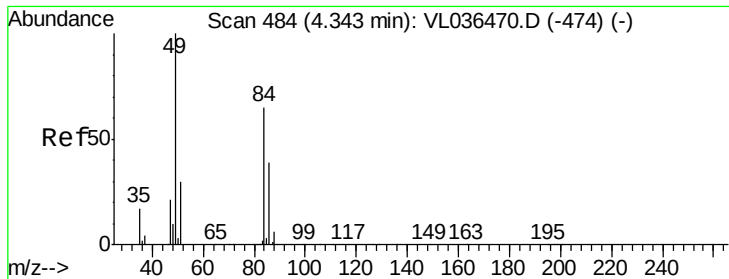
Tot Ion: 39 Resp: 2140
 Ion Ratio Lower Upper
 39 100
 54 68.4 58.8 88.2



#19
 Isopropyl Alcohol
 Concen: 1.535 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.02 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion: 45 Resp: 112164
 Ion Ratio Lower Upper
 45 100
 58 8.3 2.9 4.3#

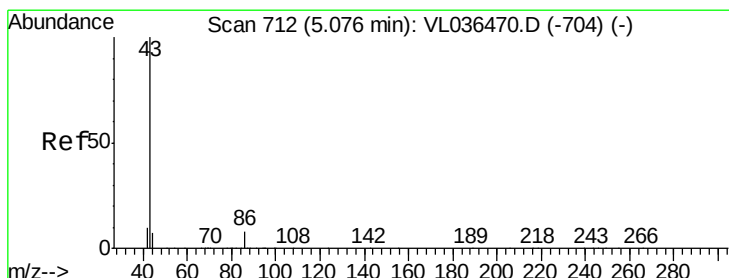
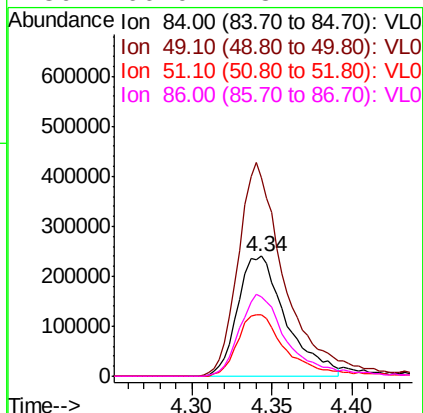
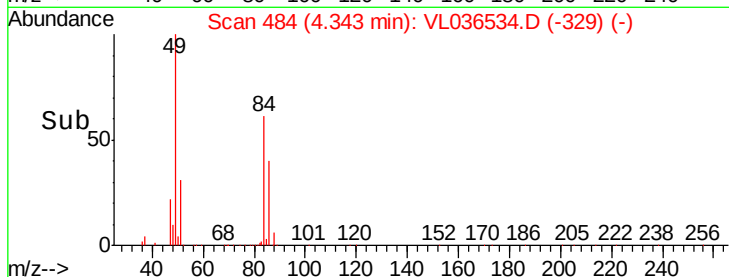
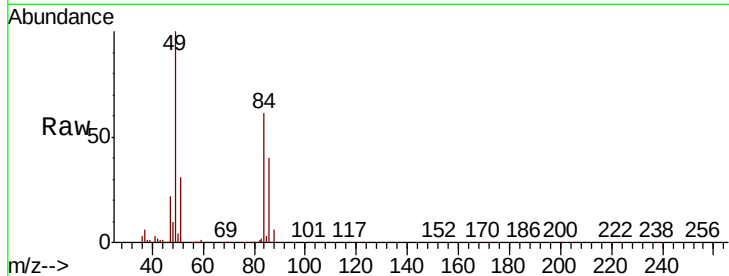




#20
Methvlene Chloride
Concen: 7.984 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

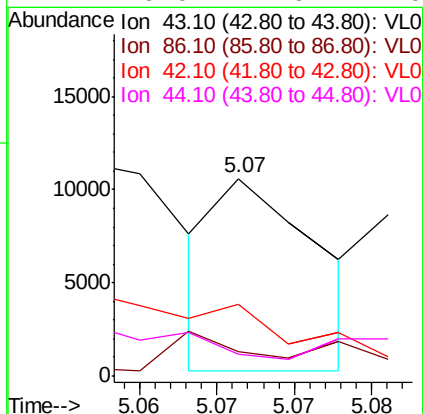
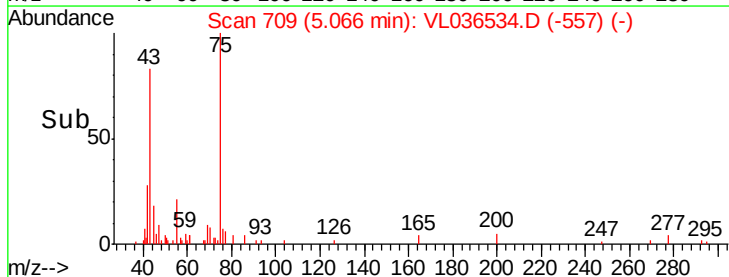
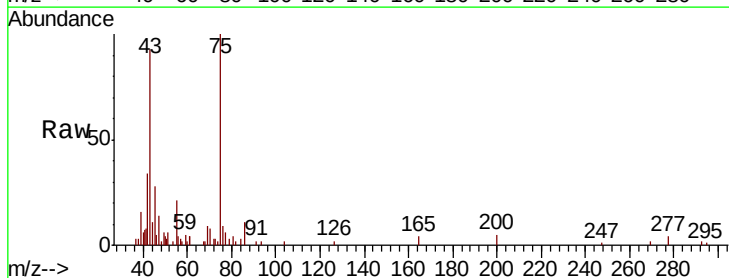
Instrument :
MSVOA_L
ClientSampled :

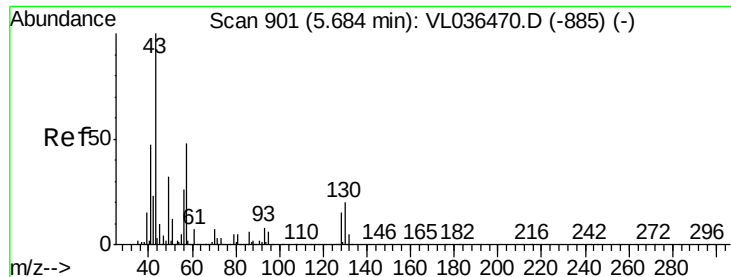
Tot Ion:	84	Resp:	496701
Ion	Ratio	Lower	Upper
84	100		
49	165.3	122.9	184.3
51	51.0	36.9	55.3
86	66.0	48.2	72.4



#23
Vinyl Acetate
Concen: 0.021 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion:	43	Resp:	4691
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#
42	35.3	8.5	12.7#
44	0.0	4.6	7.0#

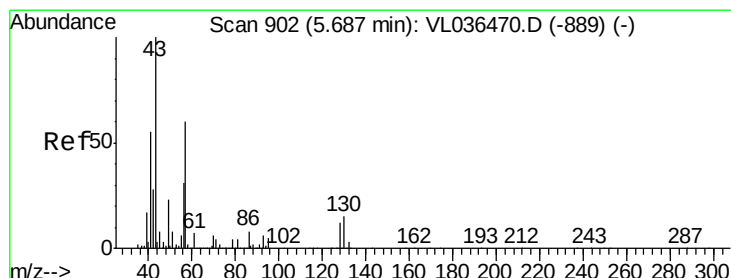
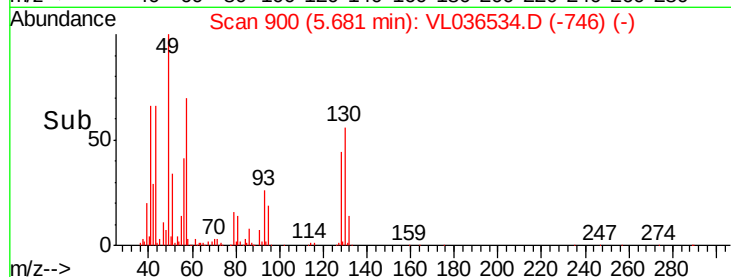
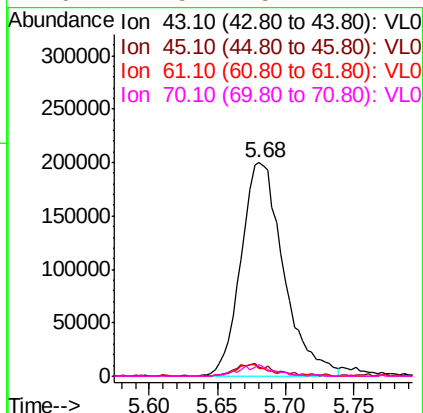
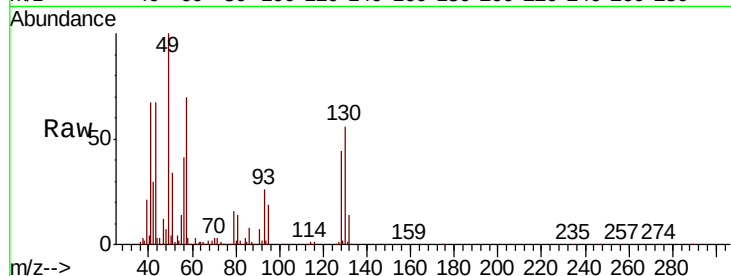




#25
Ethyl Acetate
Concen: 1.373 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

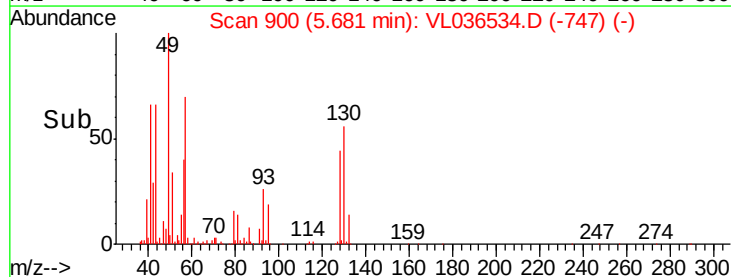
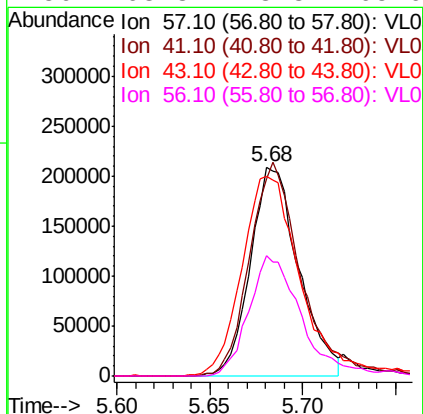
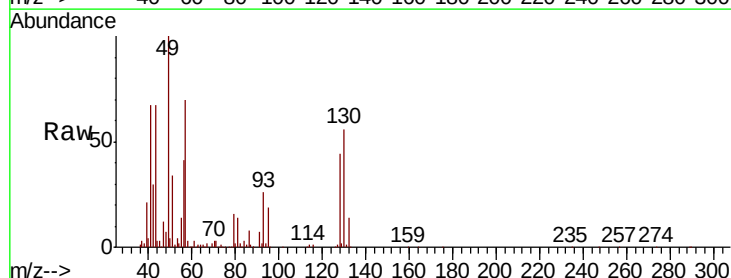
Instrument :
MSVOA_L
ClientSampled :

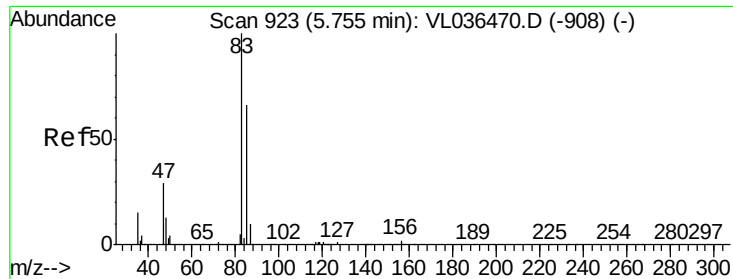
Tot Ion:	43	Resp:	433671
Ion	Ratio	Lower	Upper
43	100		
45	5.7	7.9	11.9#
61	4.7	7.4	11.2#
70	4.5	5.1	7.7#



#26
Hexane
Concen: 2.594 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion:	57	Resp:	380310
Ion	Ratio	Lower	Upper
57	100		
41	111.8	77.2	115.8
43	118.2	173.8	260.6#
56	63.8	43.8	65.6

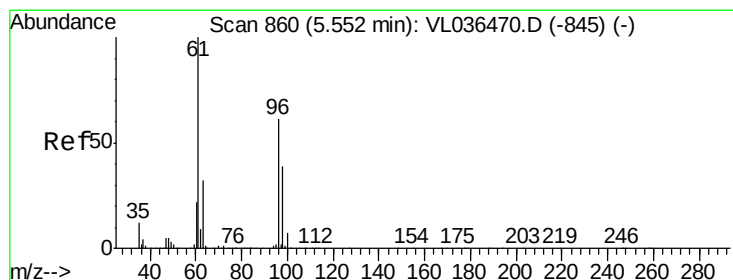
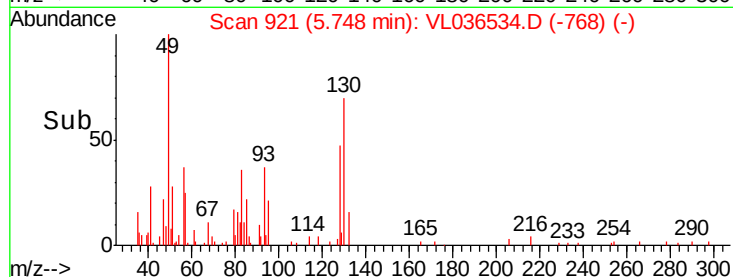
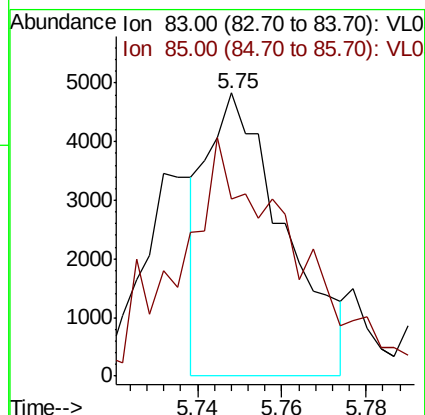
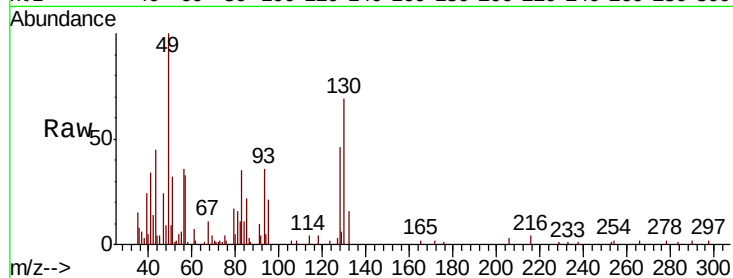




#29
Chloroform
Concen: 0.026 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

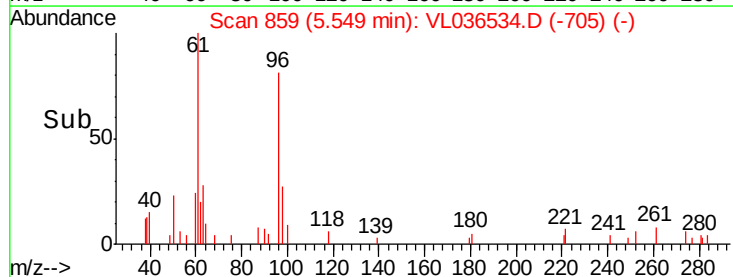
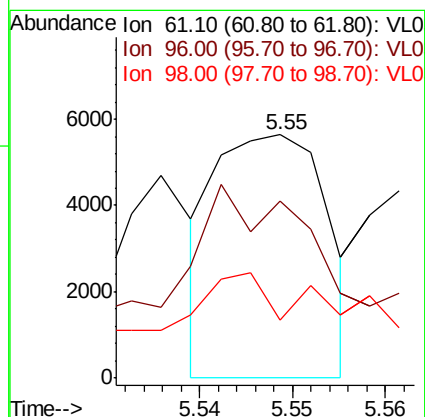
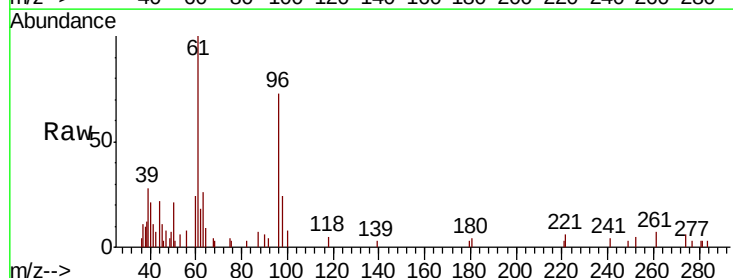
Instrument :
MSVOA_L
ClientSampleId :

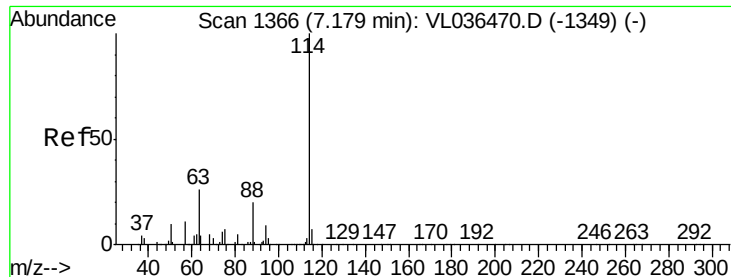
Tot Ion: 83 Resp: 6194
Ion Ratio Lower Upper
83 100
85 61.4 52.6 78.8



#31
cis-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 5.55 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion: 61 Resp: 4695
Ion Ratio Lower Upper
61 100
96 74.9 48.7 73.1#
98 0.0 31.4 47.0#

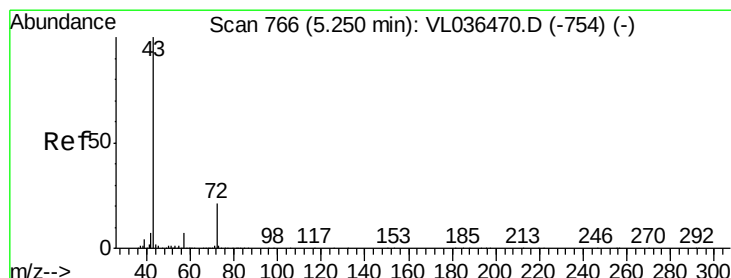
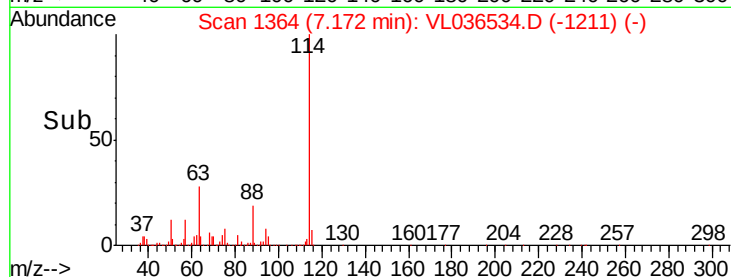
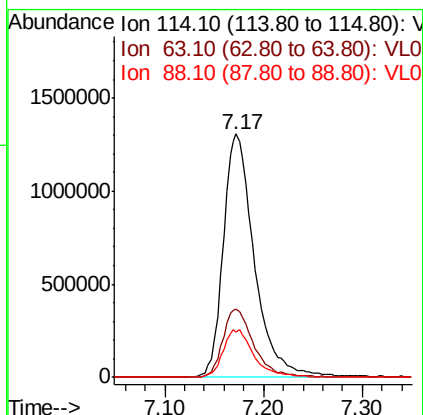
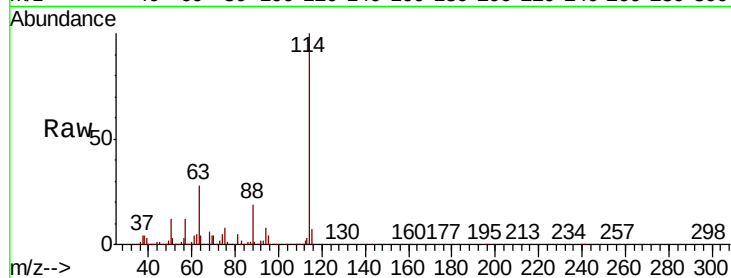




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

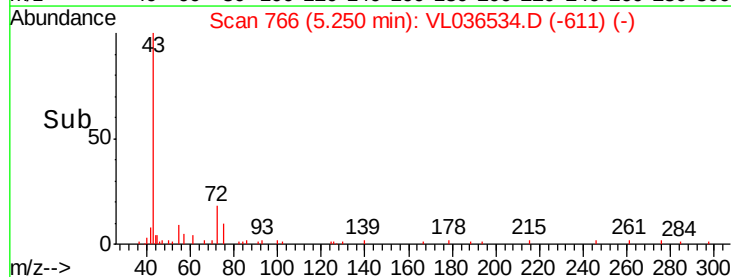
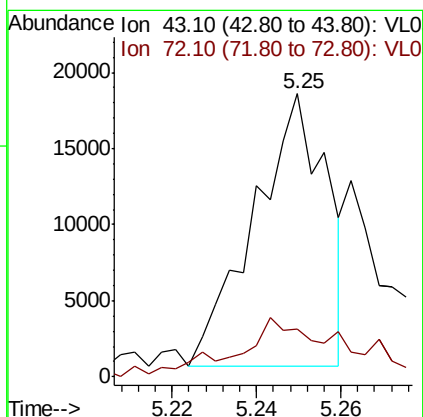
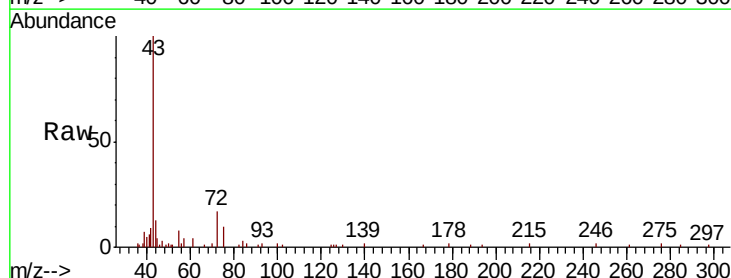
Instrument :
 MSVOA_L
 ClientSampleId :

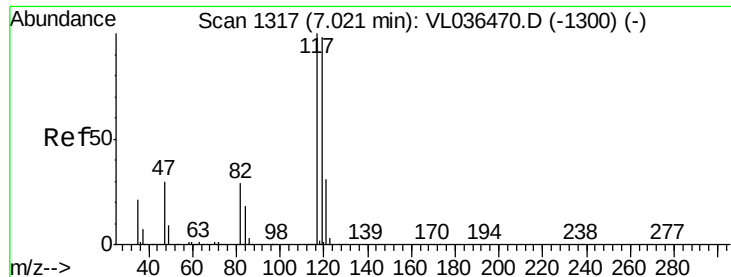
Tot Ion:114 Resp: 2882454
 Ion Ratio Lower Upper
 114 100
 63 28.2 22.4 33.6
 88 19.5 15.4 23.0



#34
 2-Butanone
 Concen: 0.152 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion: 43 Resp: 21336
 Ion Ratio Lower Upper
 43 100
 72 35.9 17.0 25.6#





#35

Carbon Tetrachloride

Concen: 0.023 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

ClientSampleId :

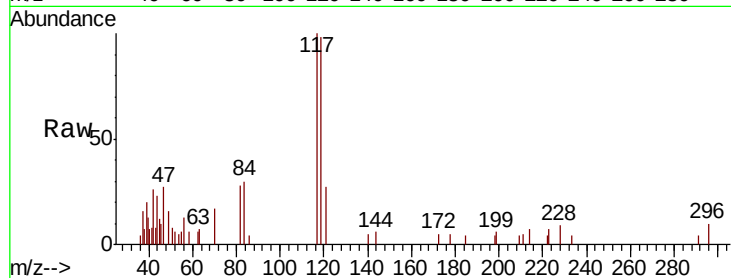
Tot Ion:117 Resp: 5106

Ion Ratio Lower Upper

117 100

119 59.2 78.2 117.2#

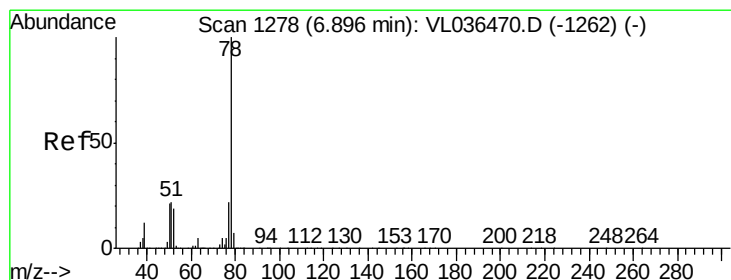
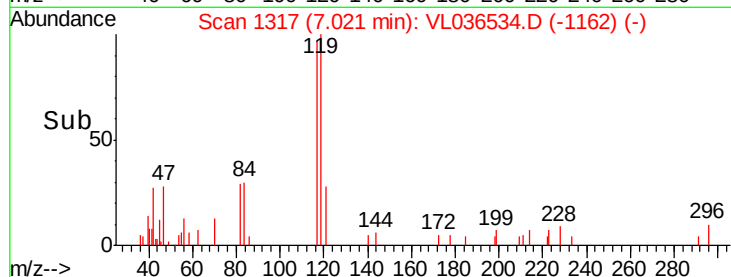
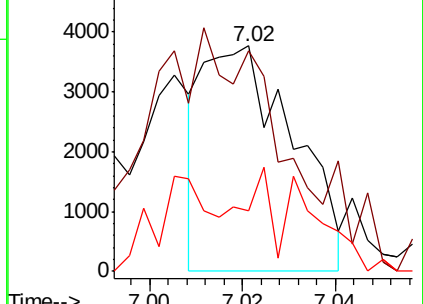
121 11.4 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.031 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

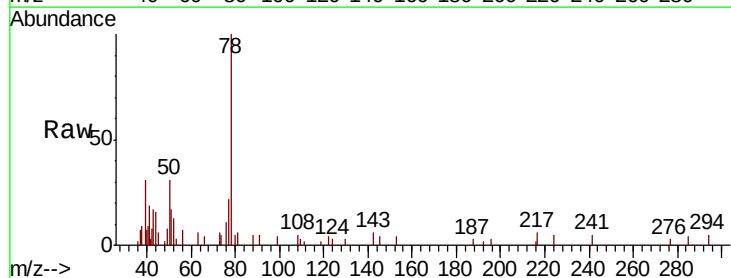
Tgt Ion: 78 Resp: 8188

Ion Ratio Lower Upper

78 100

77 15.2 18.0 27.0#

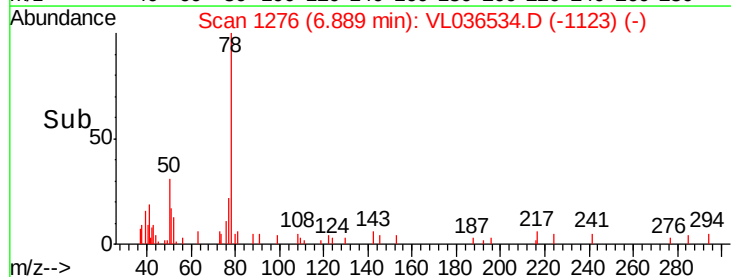
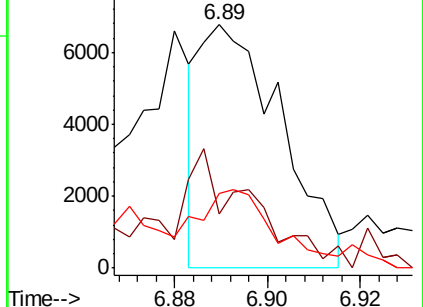
50 29.6 16.5 24.7#

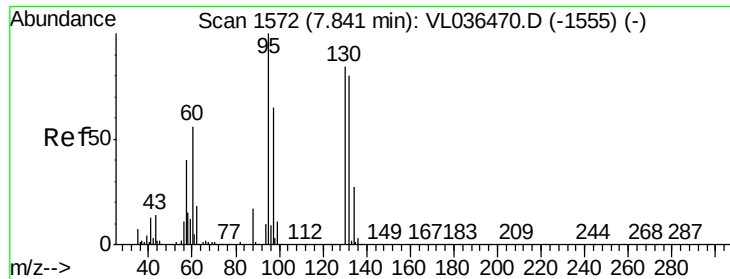


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

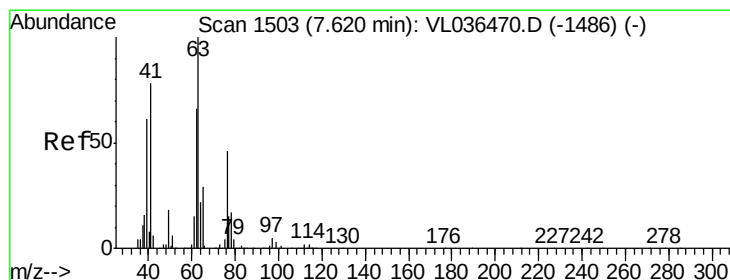
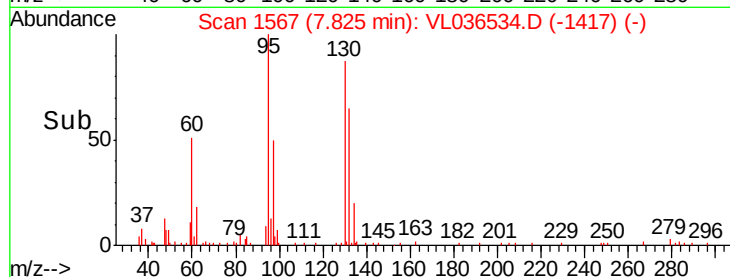
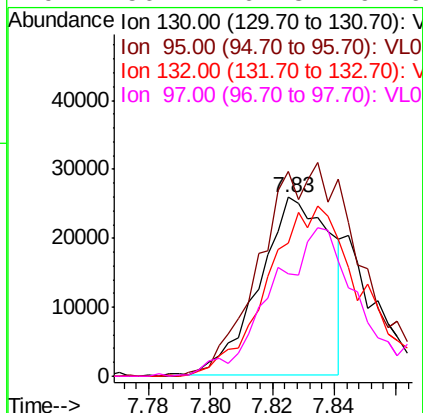
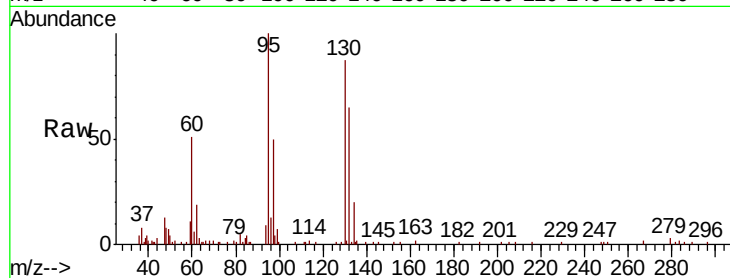




#38
 Trichloroethene
 Concen: 0.395 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.02 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

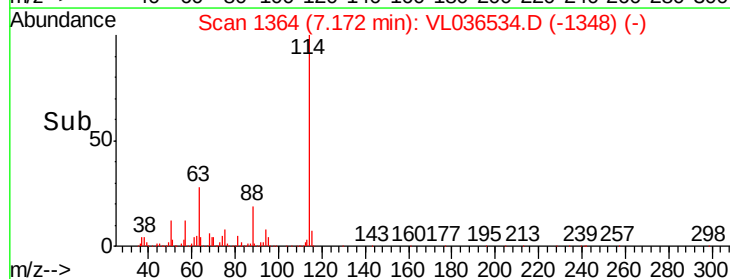
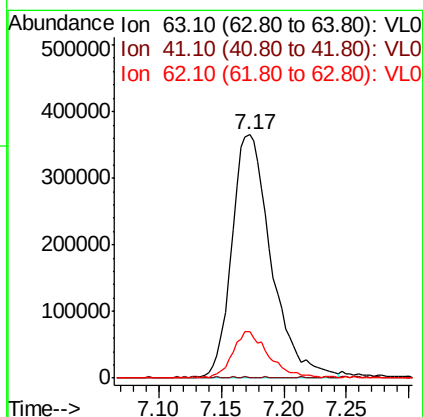
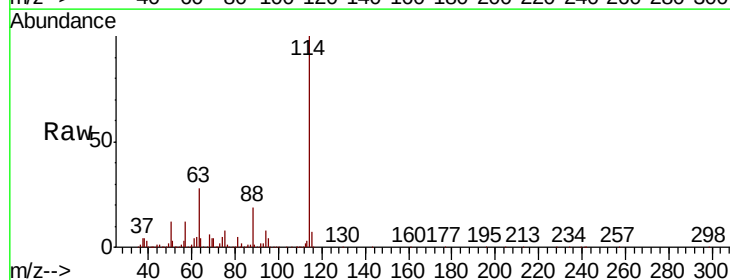
Instrument :
 MSVOA_L
 ClientSampleId :

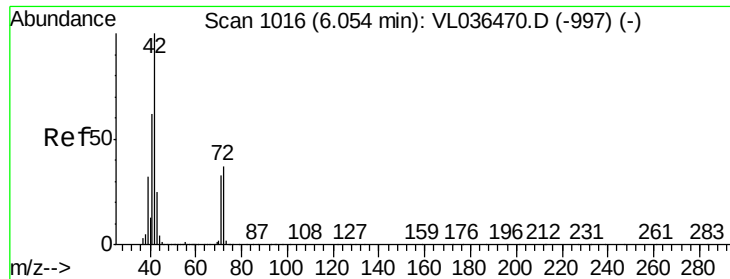
Tot Ion:130 Resp: 40867
 Ion Ratio Lower Upper
 130 100
 95 111.9 95.7 143.5
 132 74.8 76.2 114.4#
 97 56.1 61.8 92.6#



#39
 1,2-Dichloropropane
 Concen: 7.405 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion: 63 Resp: 798591
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 18.8 52.8 79.2#





#41

Tetrahydrofuran

Concen: 0.084 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.33 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

ClientSampleId :

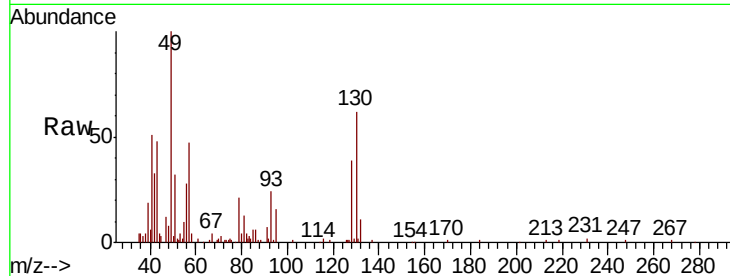
Tot Ion: 42 Resp: 5469

Ion Ratio Lower Upper

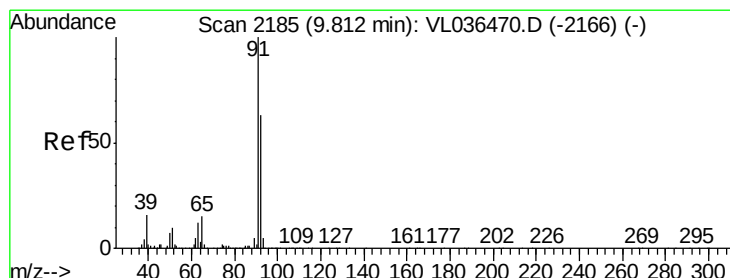
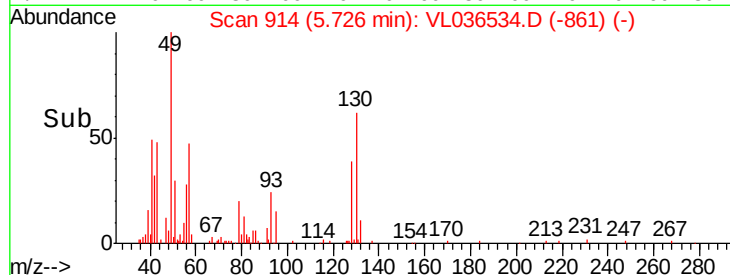
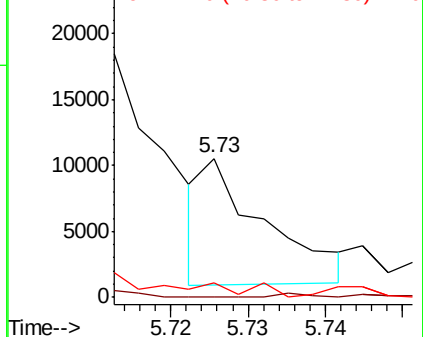
42 100

72 6.3 27.6 41.4#

71 0.0 27.0 40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.039 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036534.D

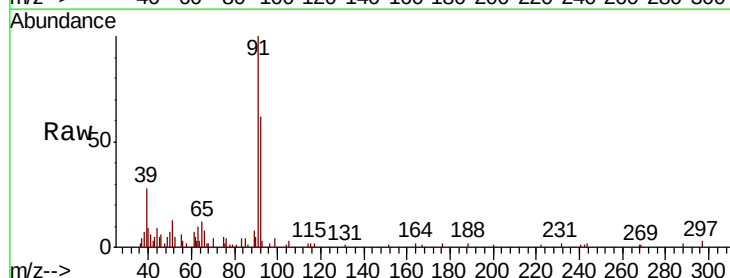
Acq: 27 Mar 2021 4:34

Tgt Ion: 91 Resp: 10982

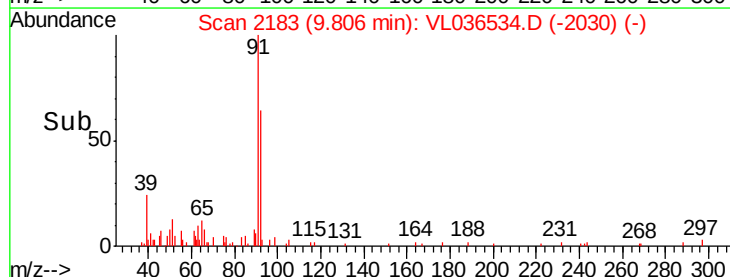
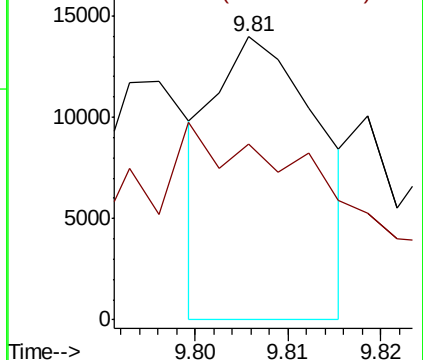
Ion Ratio Lower Upper

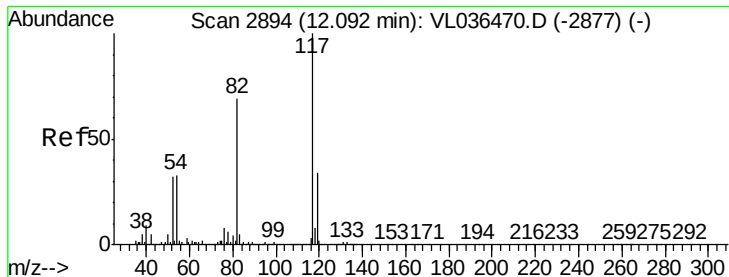
91 100

92 0.0 48.8 73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

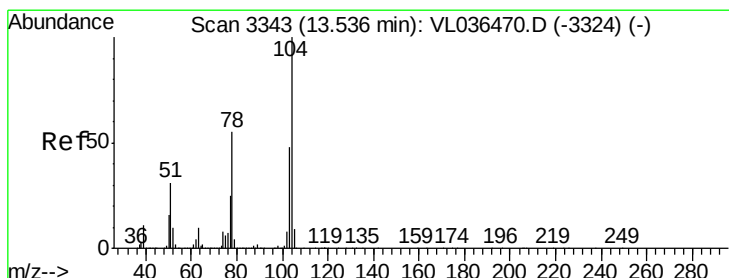
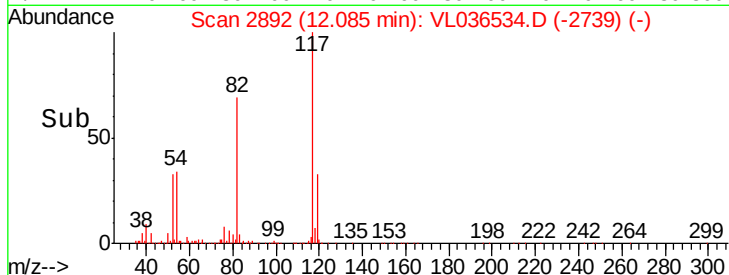
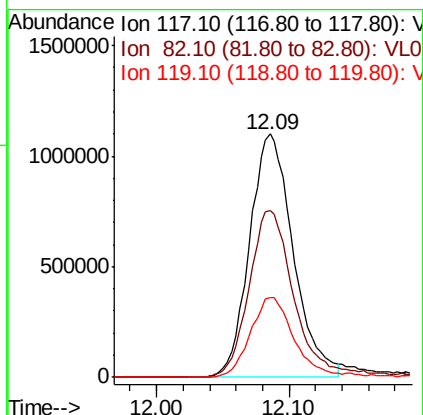
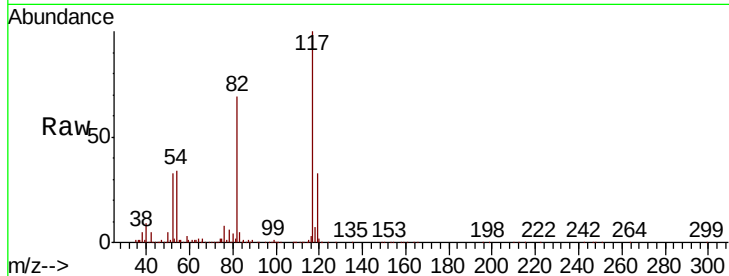




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

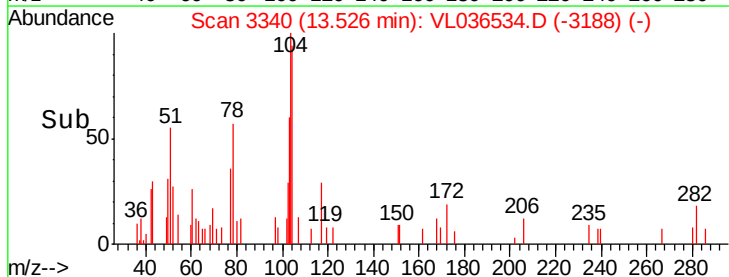
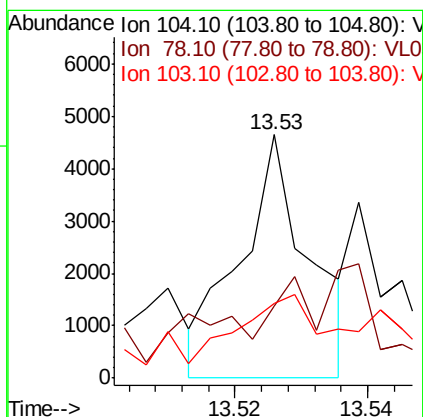
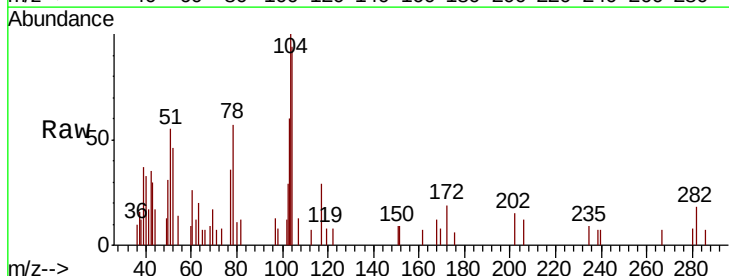
Instrument :
MSVOA_L
ClientSampled :

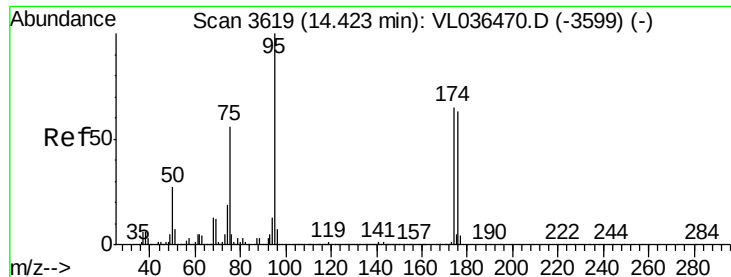
Tot Ion:117 Resp: 2521158
Ion Ratio Lower Upper
117 100
82 72.6 57.4 86.0
119 34.2 47.4 71.0#



#61
Styrene
Concen: 0.022 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion:104 Resp: 3350
Ion Ratio Lower Upper
104 100
78 0.0 43.8 65.8#
103 89.8 38.3 57.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.713 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

ClientSampleId :

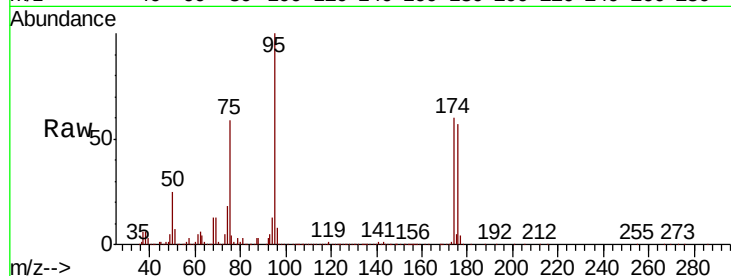
Tot Ion: 95 Resp: 1951775

Ion Ratio Lower Upper

95 100

174 64.6 51.0 76.6

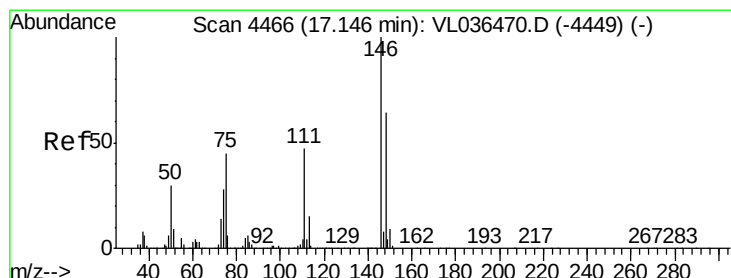
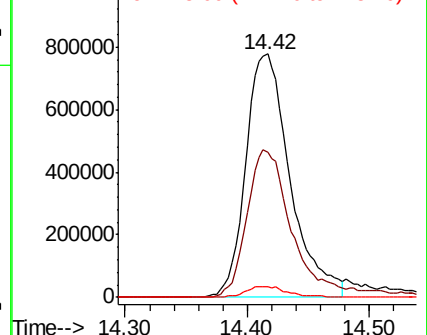
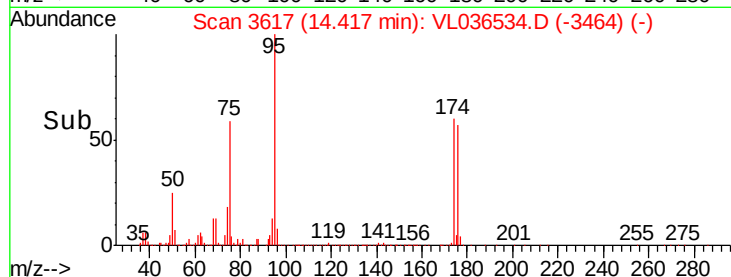
175 4.7 3.9 5.9



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



#76

1,4-Dichlorobenzene

Concen: 0.041 ppbv

RT: 17.14 min Scan# 4464

Delta R.T. -0.01 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

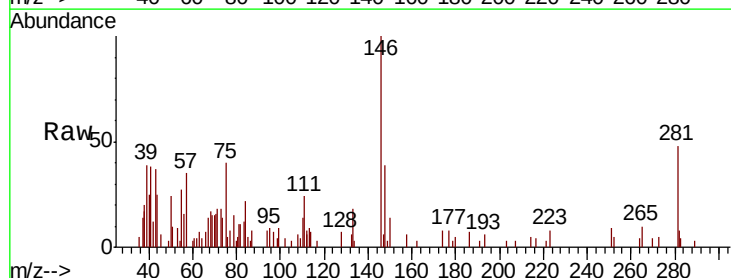
Tgt Ion: 146 Resp: 7713

Ion Ratio Lower Upper

146 100

111 92.9 24.3 72.8#

148 102.0 33.0 98.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

