

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036723.D
 Acq On : 7 Apr 2021 10:24
 Operator : SY/AP
 Sample : M1877-08
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:12:23 AM

Quant Time: Apr 11 12:10:18 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 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	1221171	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3005087	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2654804	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2085528	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	32016m	0.161	ppbv	
3) Chlorodifluoromethane	2.98	51	61748	0.271	ppbv #	91
4) Chloromethane	3.13	50	60648m	0.753	ppbv	
9) Propene	3.02	41	71087	0.977	ppbv	85
10) Heptane	8.12	43	121897	0.658	ppbv #	28
11) Trichlorofluoromethane	3.95	101	37998	0.187	ppbv	88
13) Ethanol	3.61	45	1909998	220.511	ppbv	91
15) Acetone	3.84	43	13993957m	116.430	ppbv	
19) Isopropyl Alcohol	3.97	45	6224708	94.147	ppbv #	97
20) Methylene Chloride	4.34	84	449932	7.995	ppbv	89
25) Ethyl Acetate	5.67	43	3190995	11.167	ppbv #	93
30) Cyclohexane	7.13	84	70080m	0.652	ppbv	
34) 2-Butanone	5.25	43	93723m	0.639	ppbv	
35) Carbon Tetrachloride	7.01	117	13626m	0.059	ppbv	
36) Benzene	6.89	78	150086m	0.542	ppbv	
43) Methyl Methacrylate	8.01	69	1751369	18.819	ppbv	97
44) 2,2,4-Trimethylpentane	7.87	57	3278907	6.722	ppbv	100
52) Tetrachloroethene	11.22	164	7178m	0.070	ppbv	
53) Toluene	9.80	91	168857m	0.572	ppbv	
59) m/p-Xylene	12.97	91	35890m	0.107	ppbv	

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

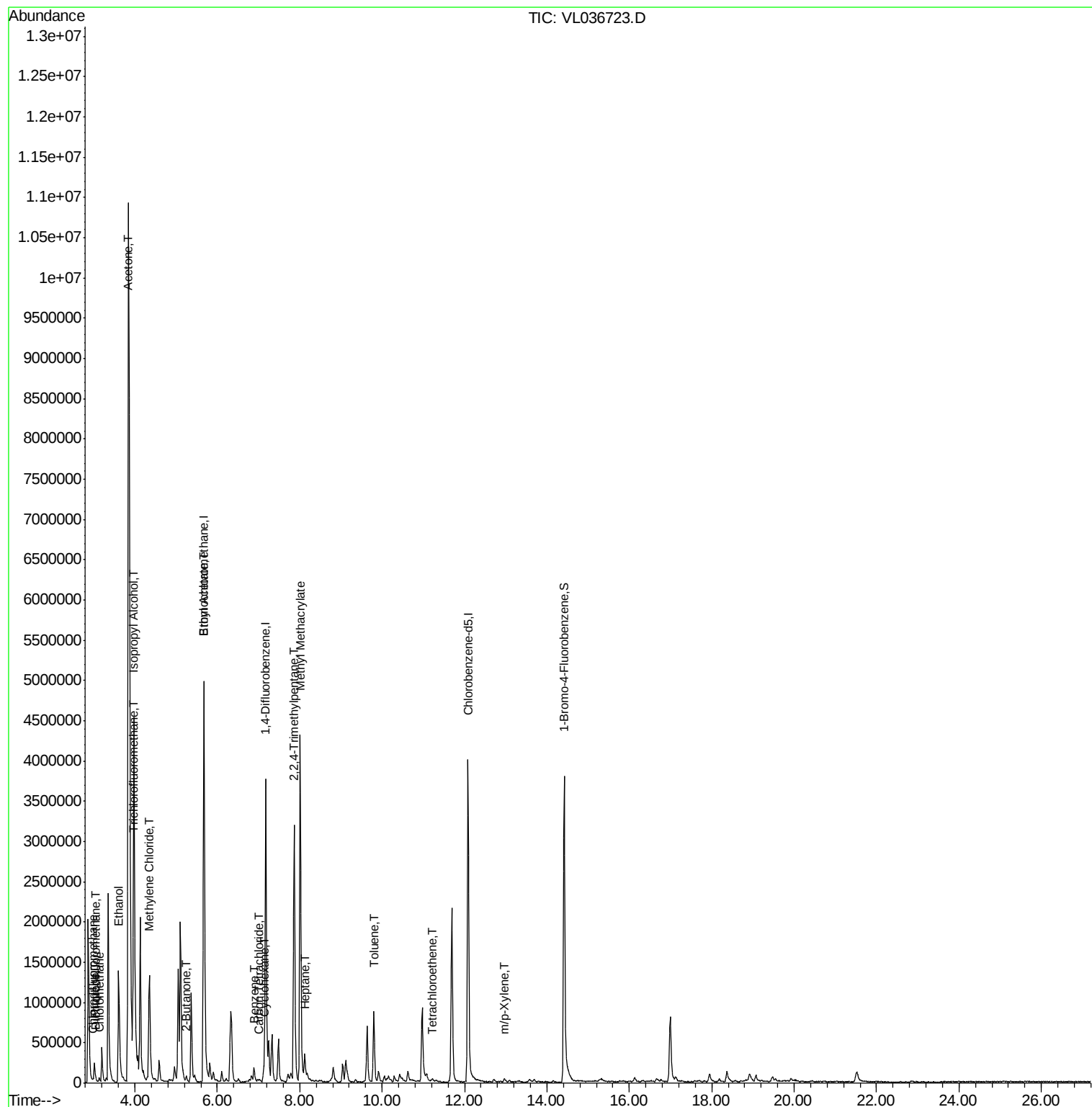
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
Data File : VL036723.D
Acq On : 7 Apr 2021 10:24
Operator : SY/AP
Sample : M1877-08
Misc : 400mL/MSVOA L
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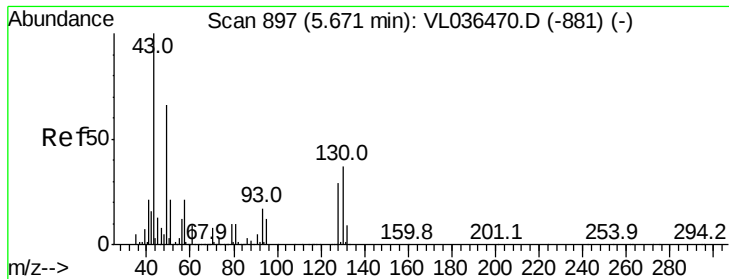
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)

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4/12/2021 11:12:23 AM

Quant Time: Apr 11 12:10:18 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
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: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 49 Resp: 1221171

Ion Ratio Lower Upper

49 100

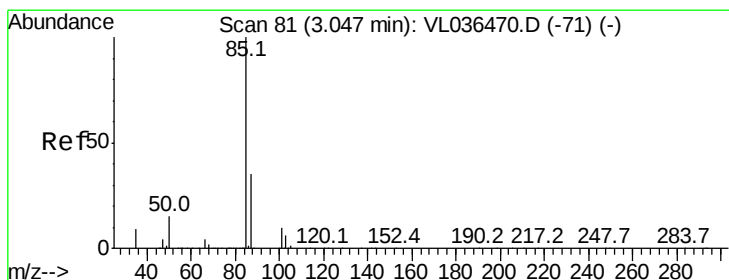
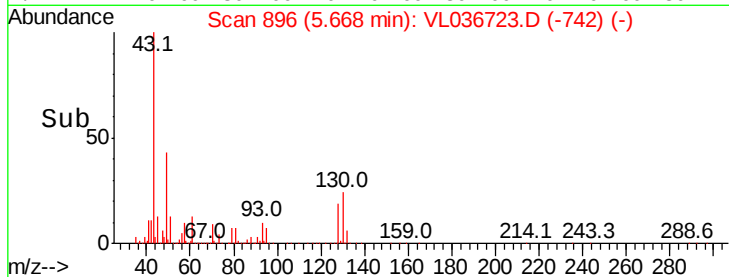
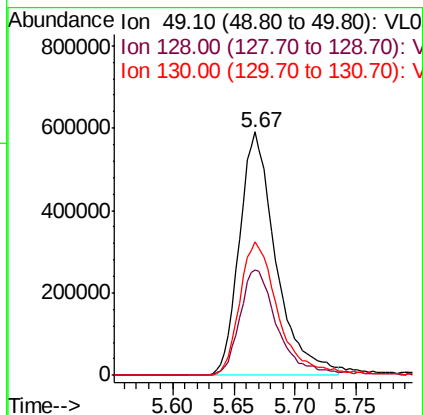
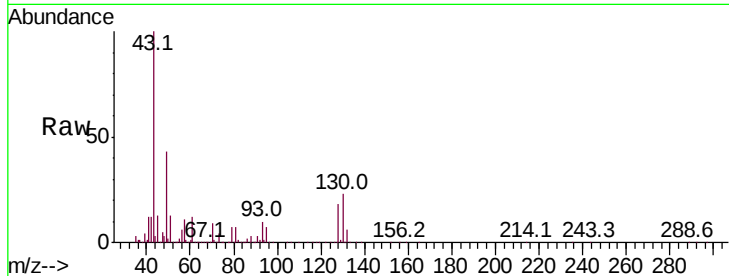
128 45.7 23.5 70.6

130 58.9 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.161 ppbv m

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036723.D

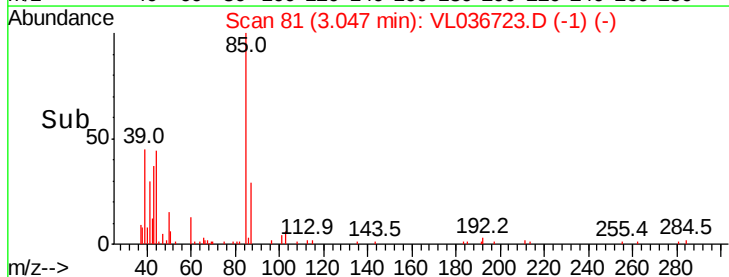
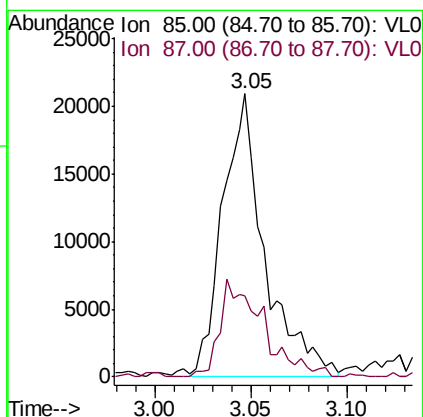
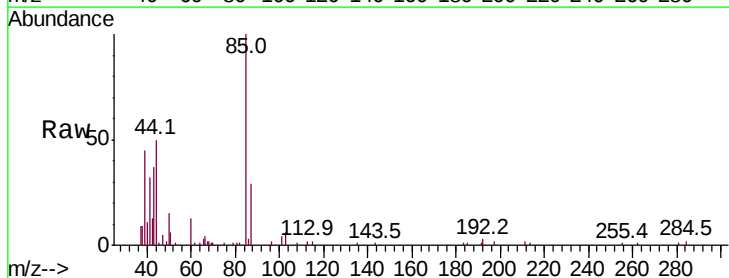
Acq: 7 Apr 2021 10:24

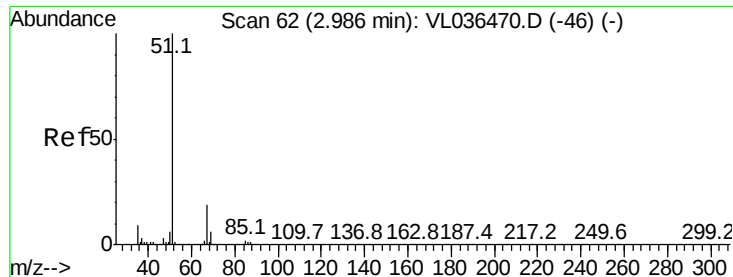
Tgt Ion: 85 Resp: 32016

Ion Ratio Lower Upper

85 100

87 28.6 27.8 41.8





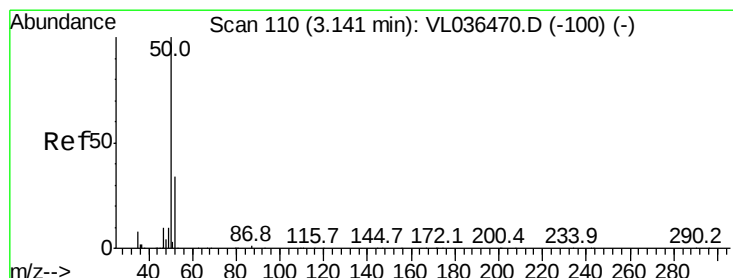
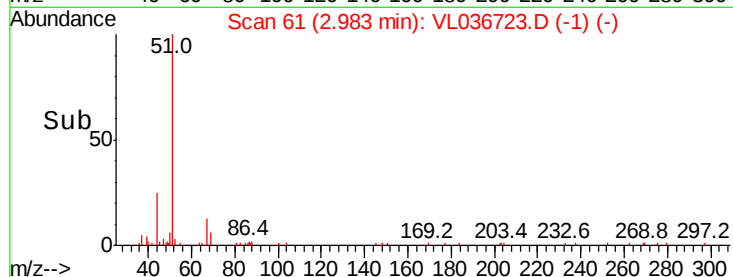
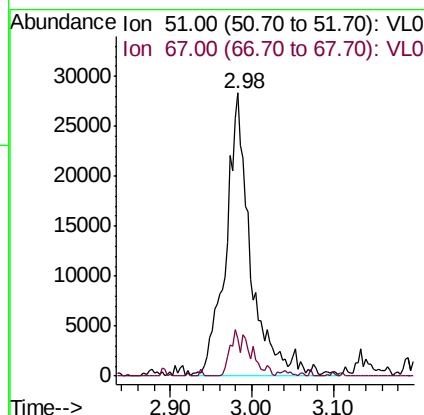
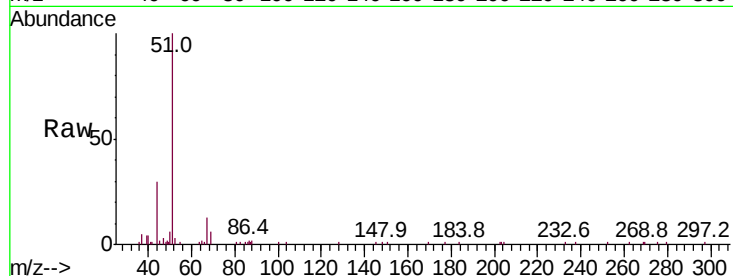
#3
Chlorodifluoromethane
Concen: 0.271 ppbv
RT: 2.98 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)

Tot Ion: 51 Resp: 61748
Ion Ratio Lower Upper
51 100
67 14.2 14.7 22.1#

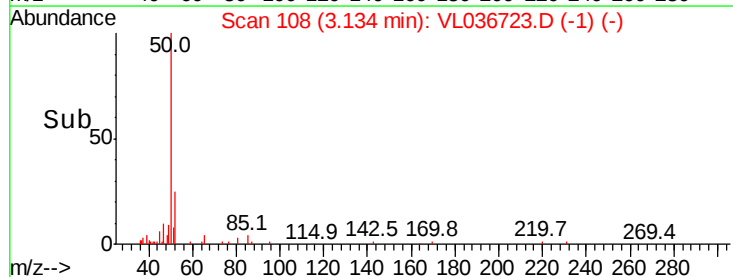
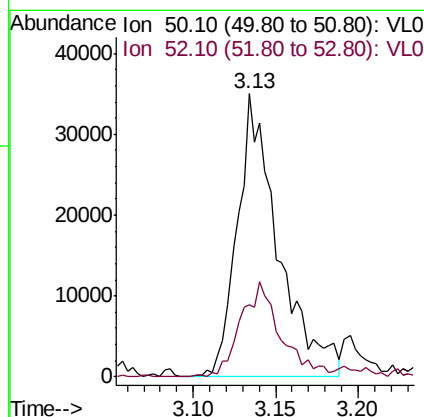
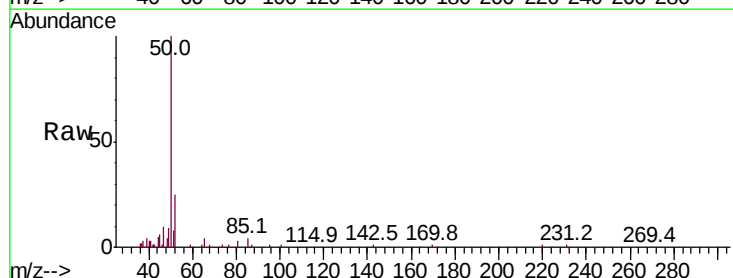
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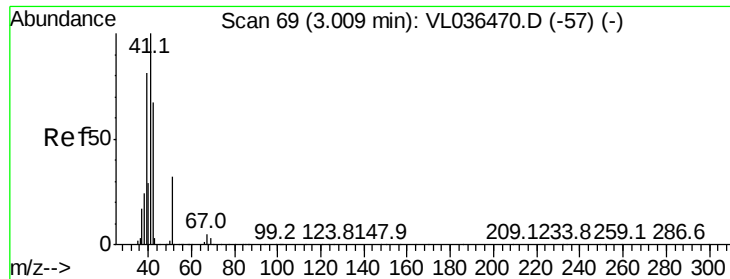
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#4
Chloromethane
Concen: 0.753 ppbv m
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Tgt Ion: 50 Resp: 60648
Ion Ratio Lower Upper
50 100
52 25.5 27.0 40.6#





#9

Propene

Concen: 0.977 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 41 Resp: 71087

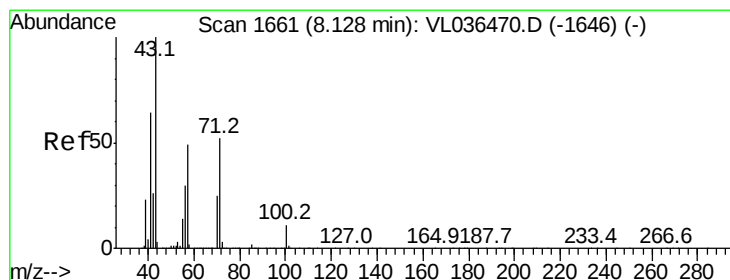
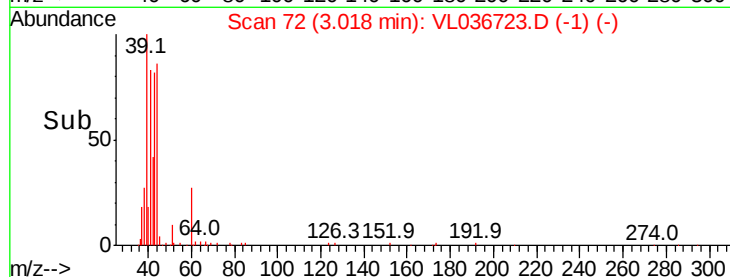
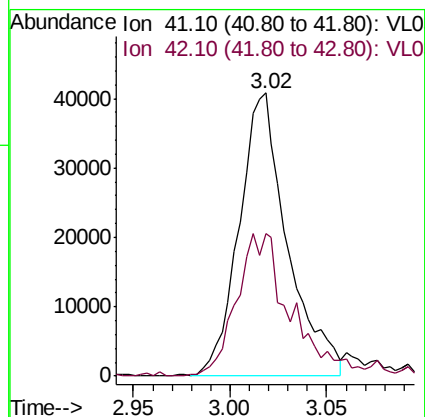
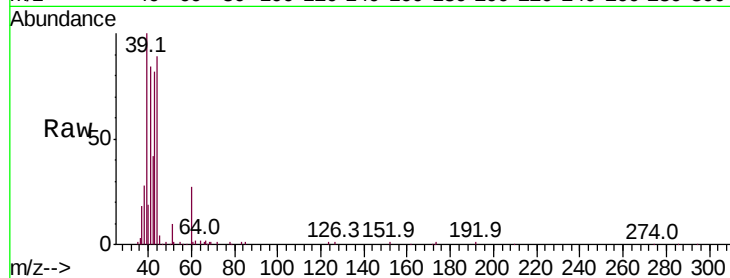
Ion Ratio Lower Upper

41 100

42 58.8 57.0 85.4

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#10

Heptane

Concen: 0.658 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036723.D

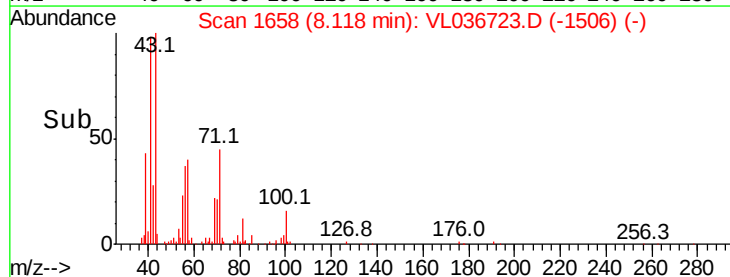
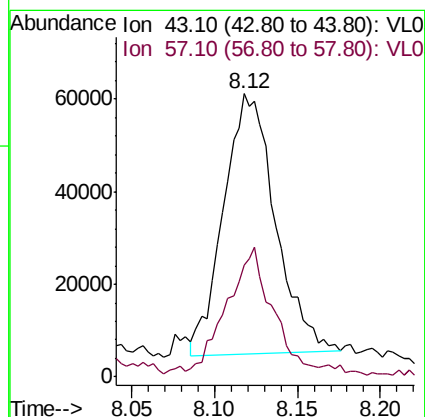
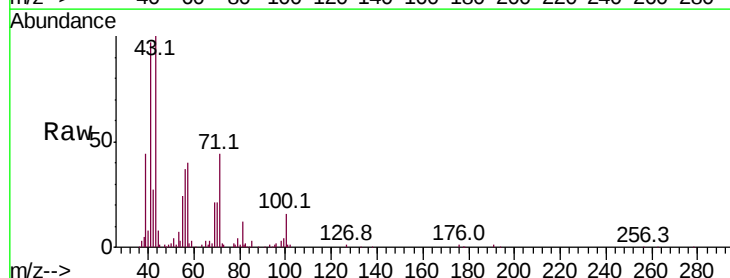
Acq: 7 Apr 2021 10:24

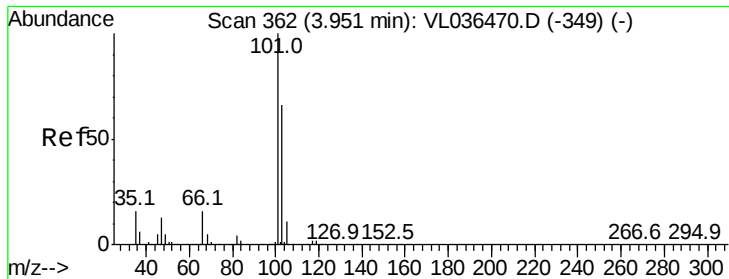
Tgt Ion: 43 Resp: 121897

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





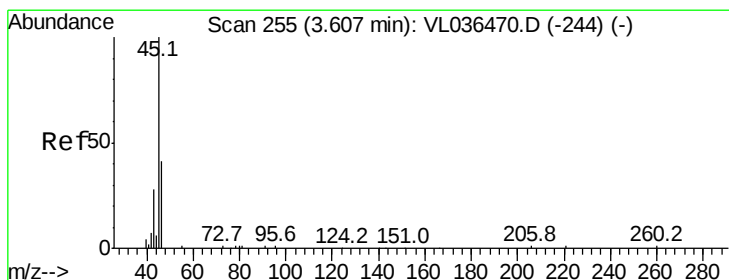
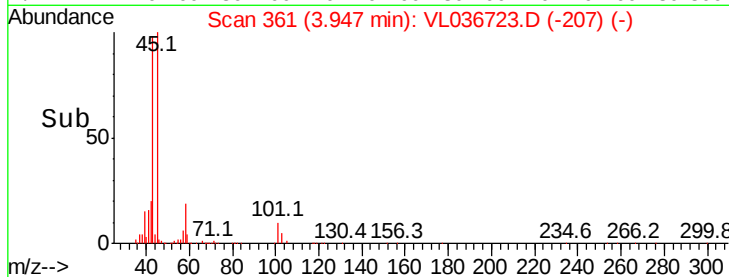
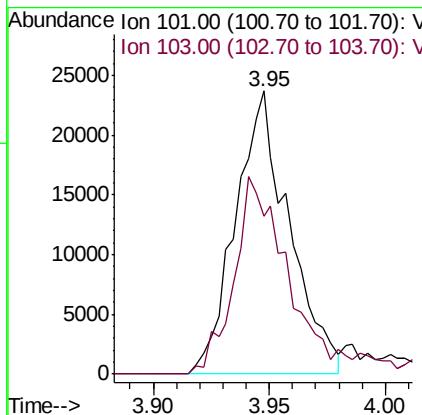
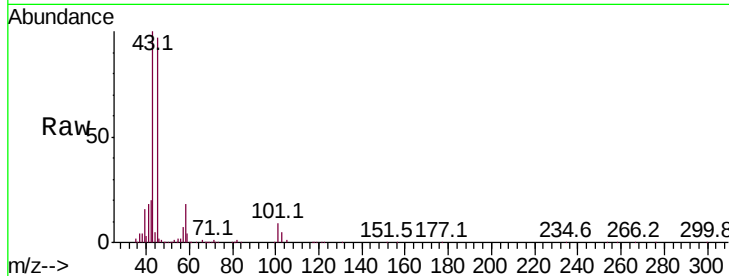
#11
 Trichlorofluoromethane
 Concen: 0.187 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036723.D
 Acq: 7 Apr 2021 10:24

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)

Tot Ion:101 Resp: 37998
 Ion Ratio Lower Upper
 101 100
 103 55.7 52.5 78.7

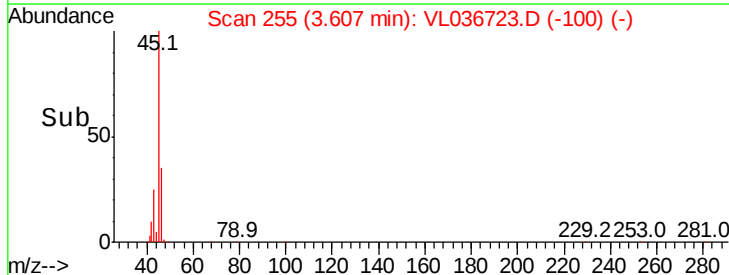
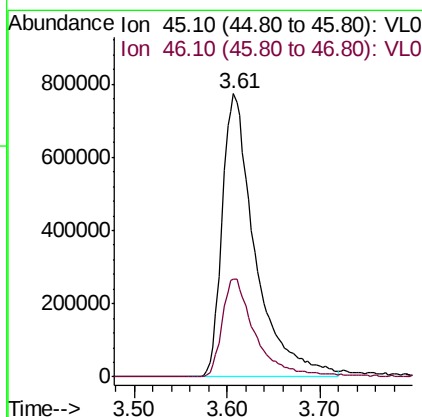
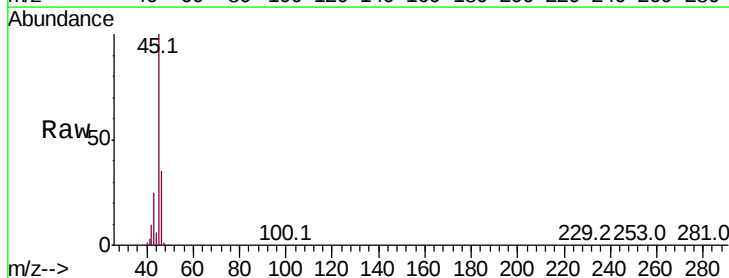
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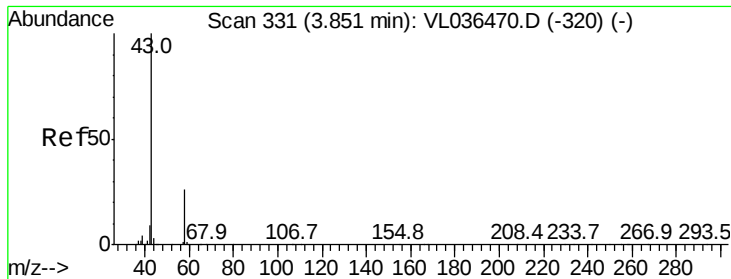
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#13
 Ethanol
 Concen: 220.511 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL036723.D
 Acq: 7 Apr 2021 10:24

Tgt Ion: 45 Resp: 1909998
 Ion Ratio Lower Upper
 45 100
 46 35.6 16.6 66.2





#15

Acetone

Concen: 116.430 ppbv m

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 43 Resp:13993957

Ion Ratio Lower Upper

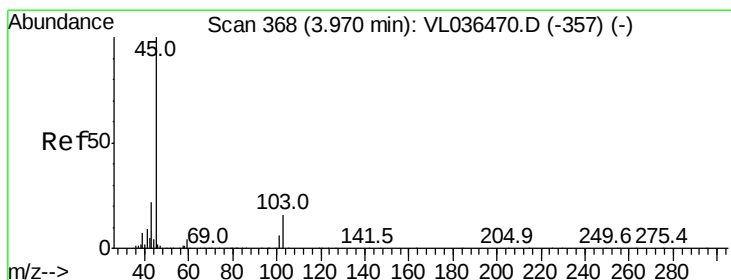
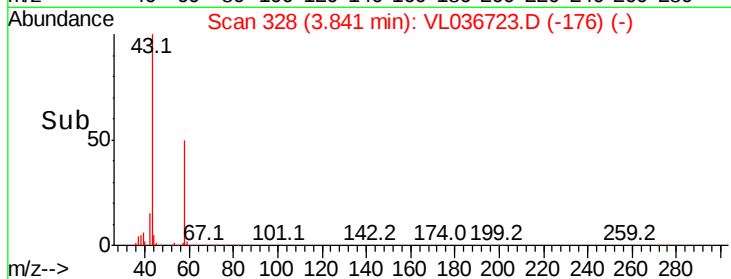
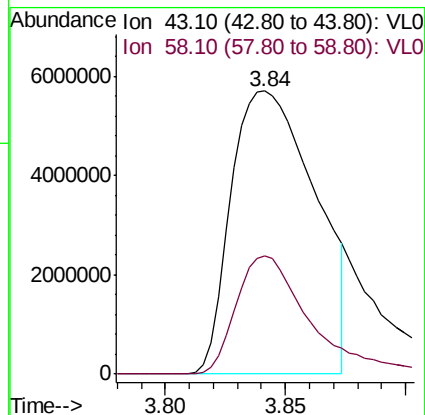
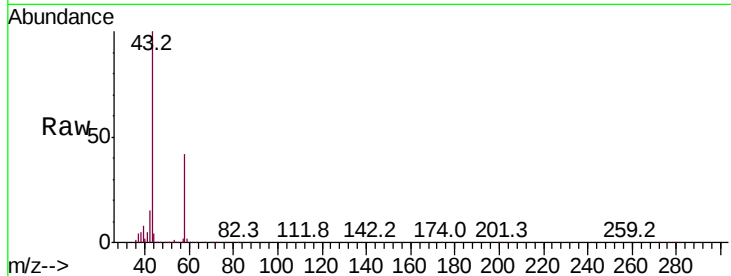
43 100

58 37.8 21.2 31.8#

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#19

Isopropyl Alcohol

Concen: 94.147 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.00 min

Lab File: VL036723.D

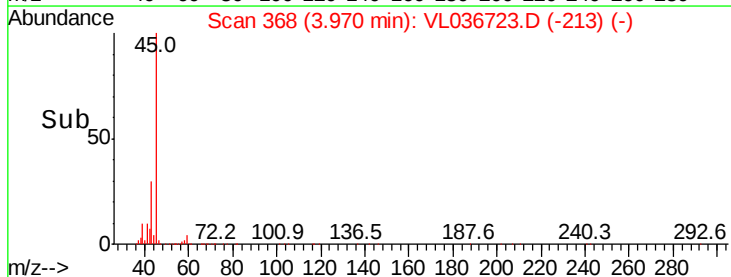
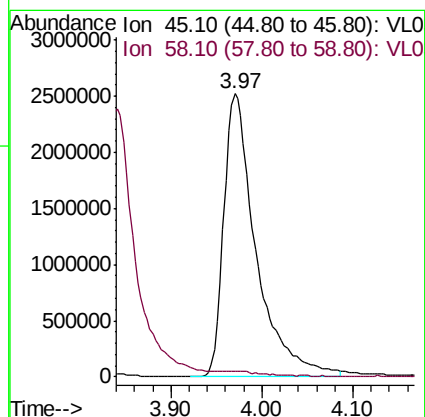
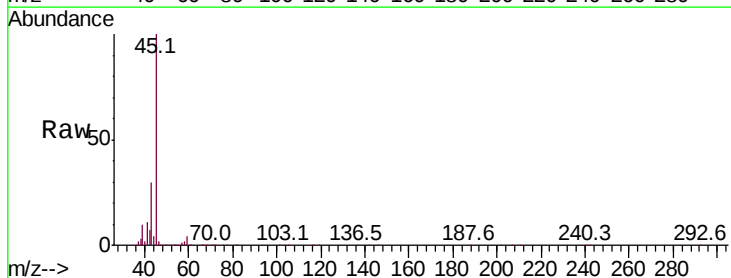
Acq: 7 Apr 2021 10:24

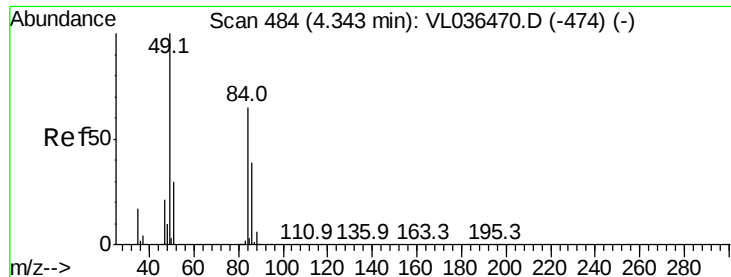
Tgt Ion: 45 Resp: 6224708

Ion Ratio Lower Upper

45 100

58 2.6 2.9 4.3#





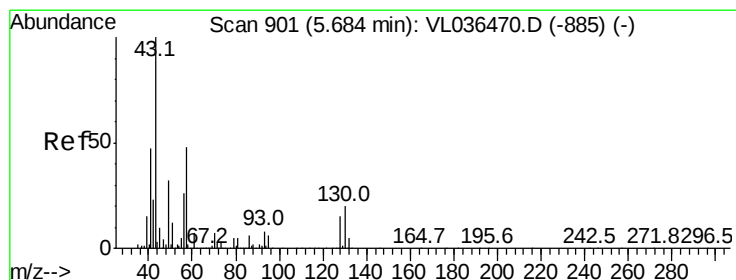
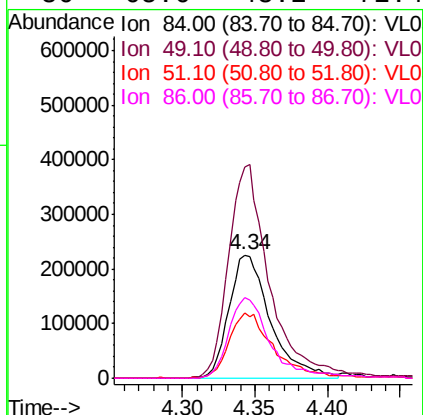
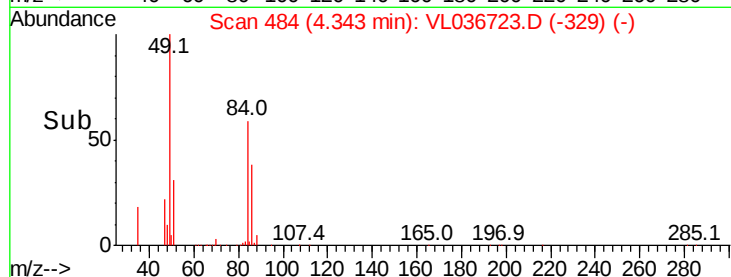
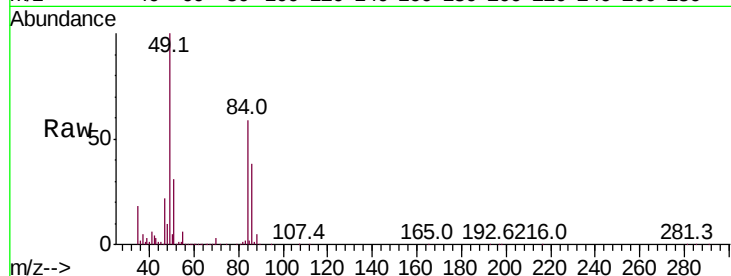
#20
Methylene Chloride
Concen: 7.995 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)

Tot Ion:	84	Resp:	449932
Ion	Ratio	Lower	Upper
84	100		
49	170.6	122.9	184.3
51	52.9	36.9	55.3
86	65.6	48.2	72.4

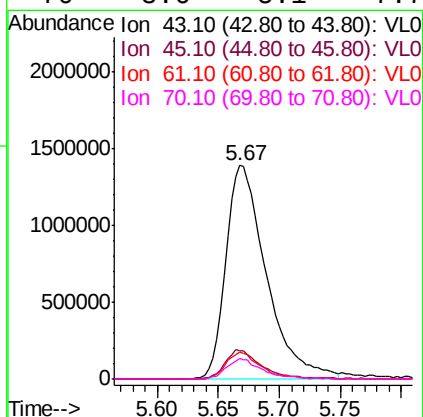
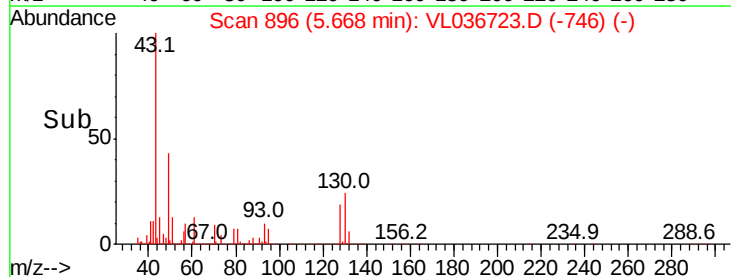
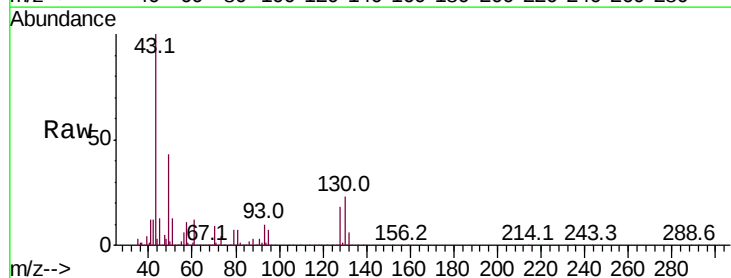
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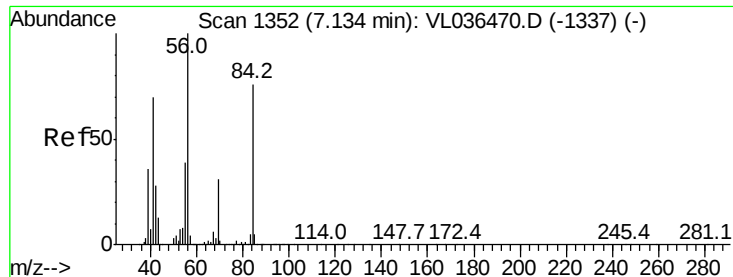
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#25
Ethyl Acetate
Concen: 11.167 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Tgt Ion:	43	Resp:	3190995
Ion	Ratio	Lower	Upper
43	100		
45	12.5	7.9	11.9#
61	11.5	7.4	11.2#
70	8.6	5.1	7.7#





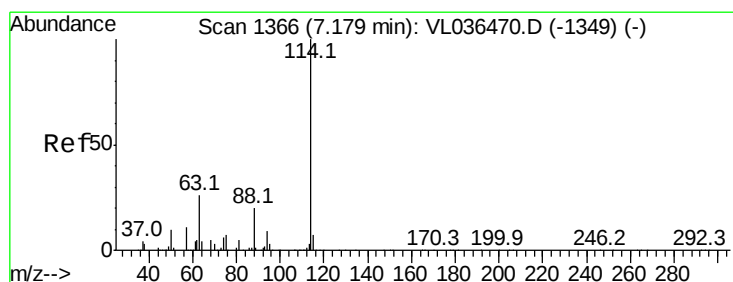
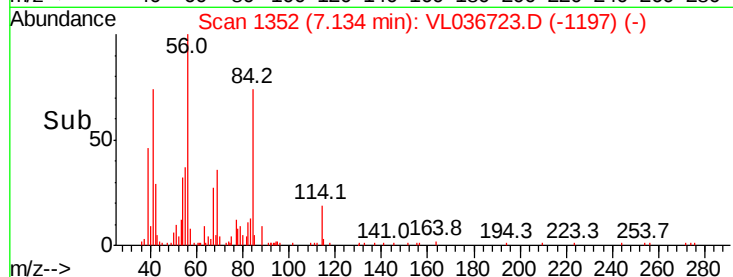
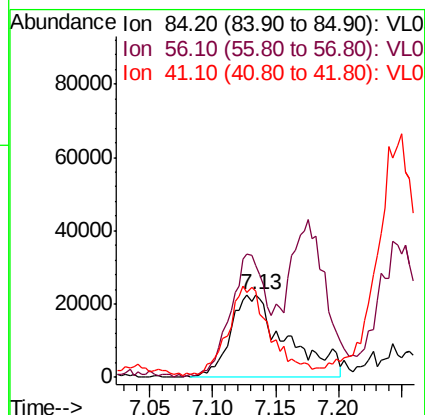
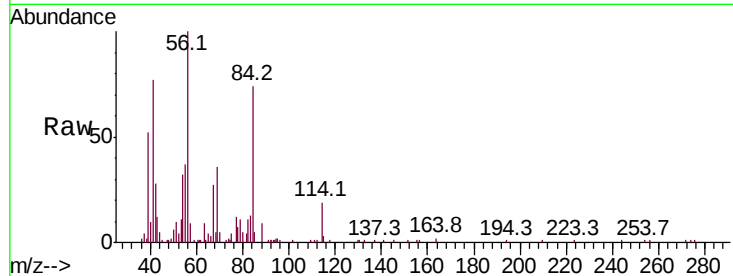
#30
Cvclohexane
Concen: 0.652 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
84	100		
56	93.2	114.6	171.8#
41	79.2	75.3	112.9

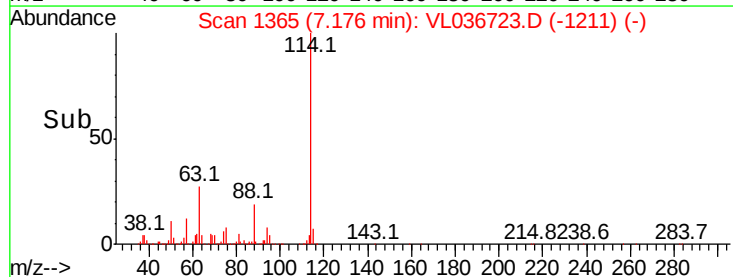
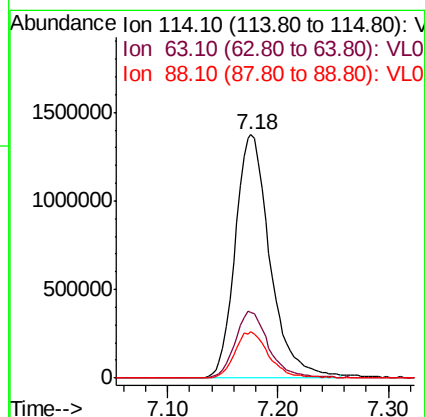
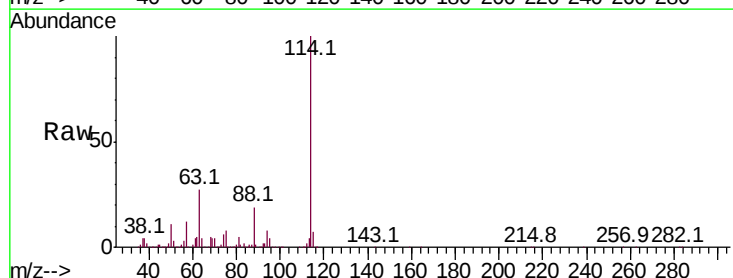
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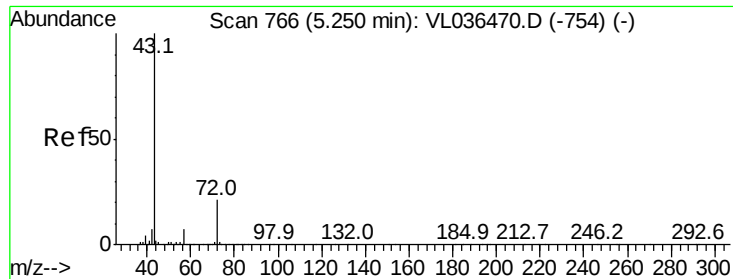
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.4	33.6
88	18.8	15.4	23.0





#34

2-Butanone

Concen: 0.639 ppbv m

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 43 Resp: 93723

Ion Ratio Lower Upper

43 100

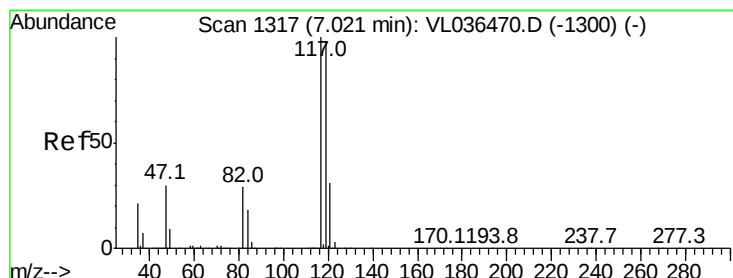
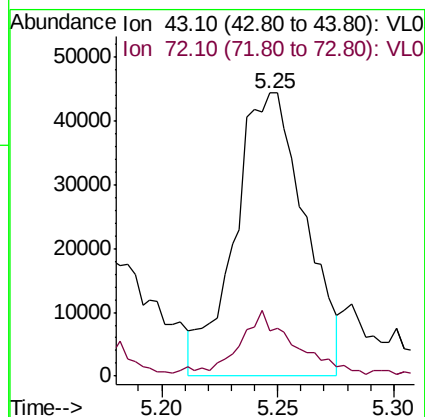
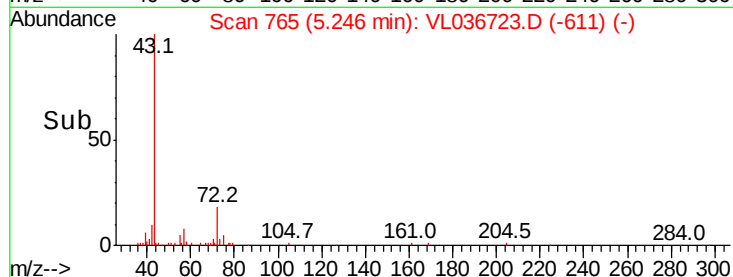
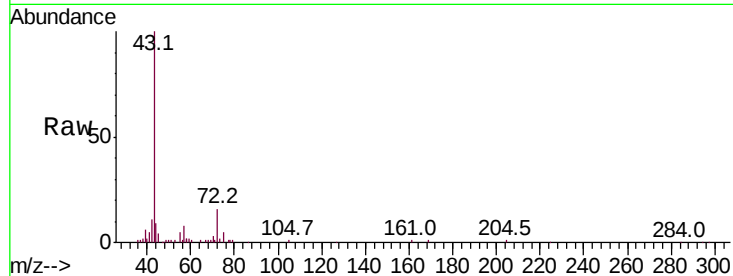
72 20.7 17.0 25.6

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#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

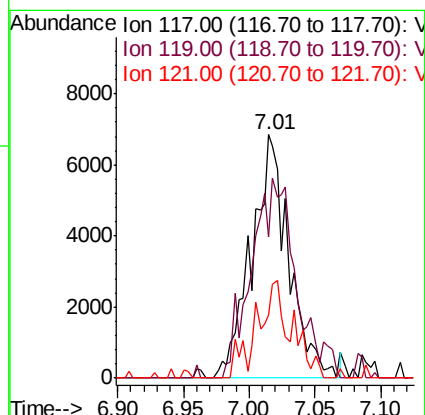
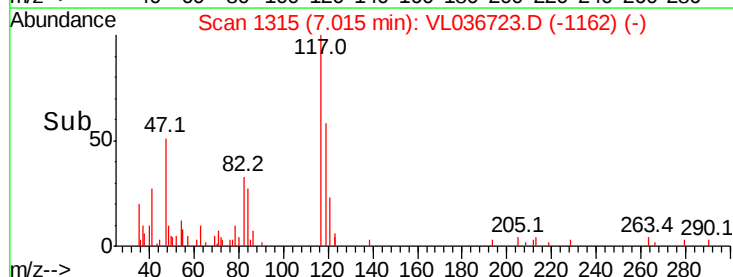
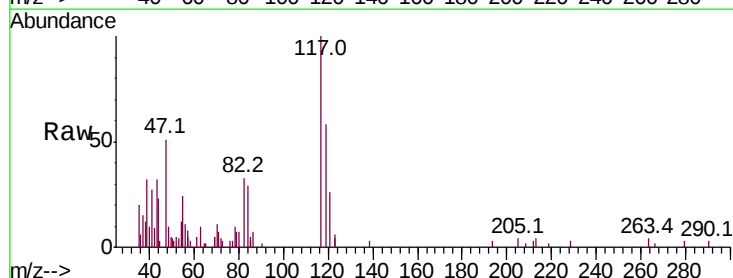
Tgt Ion: 117 Resp: 13626

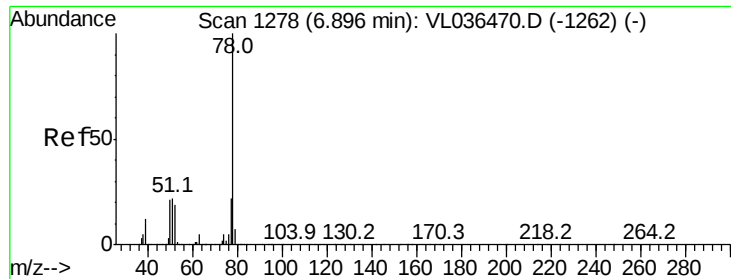
Ion Ratio Lower Upper

117 100

119 58.2 78.2 117.2#

121 26.2 24.5 36.7





#36

Benzene

Concen: 0.542 ppbv m

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

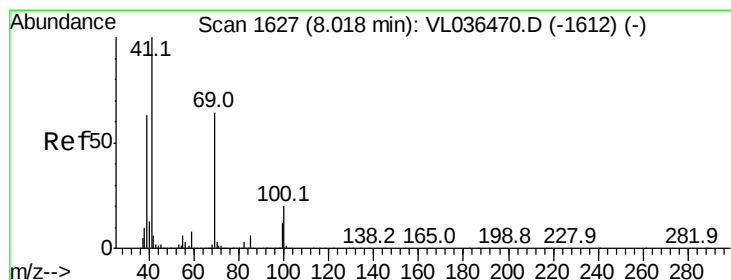
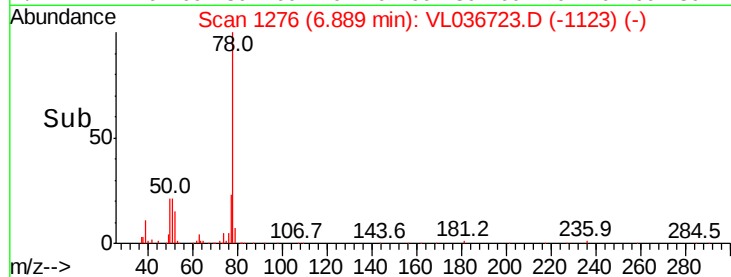
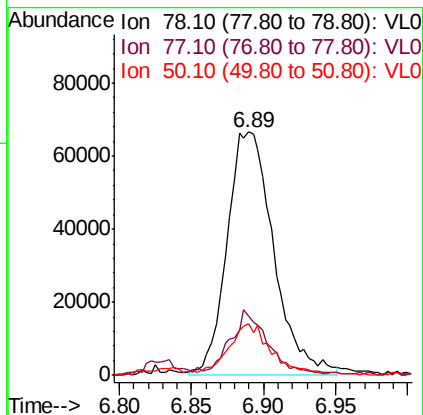
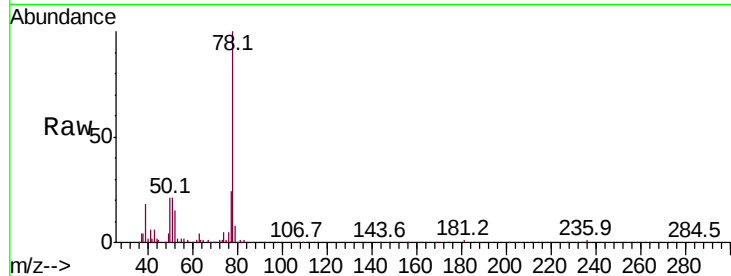
ClientSampleId :

UP-SG-5(2021)

Tot Ion:	78	Resp:	150086
Ion Ratio	Lower	Upper	
78	100		
77	24.1	18.0	27.0
50	21.0	16.5	24.7

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#43

Methyl Methacrylate

Concen: 18.819 ppbv

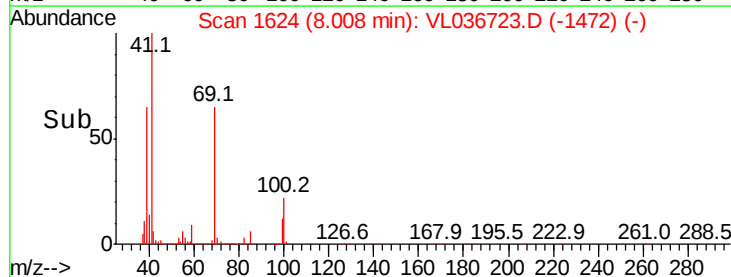
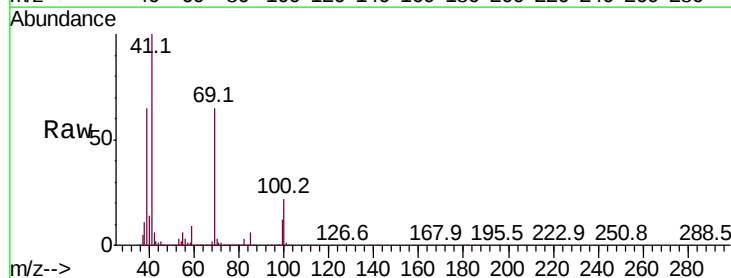
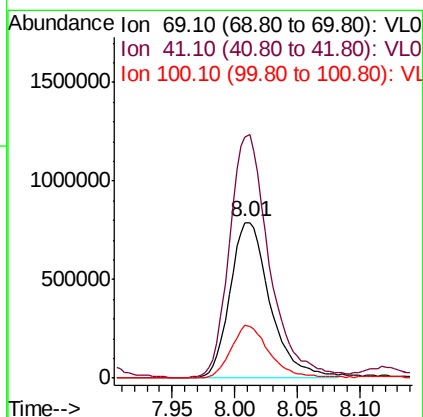
RT: 8.01 min Scan# 1624

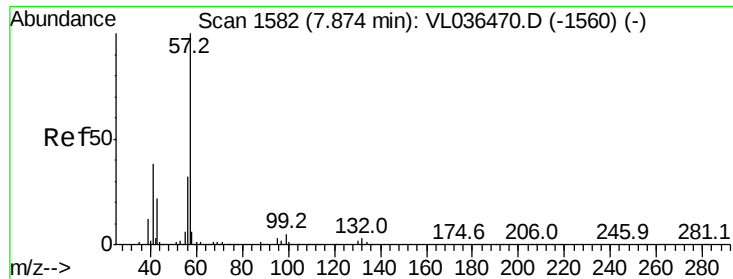
Delta R.T. -0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Tgt Ion:	69	Resp:	1751369
Ion Ratio	Lower	Upper	
69	100		
41	154.7	126.8	190.2
100	32.7	24.9	37.3





#44

2,2,4-Trimethylpentane

Concen: 6.722 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 57 Resp: 3278907

Ion Ratio Lower Upper

57 100

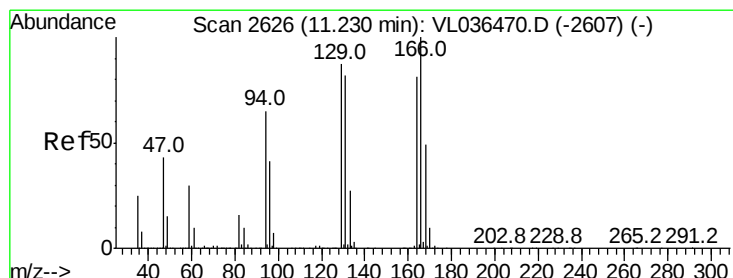
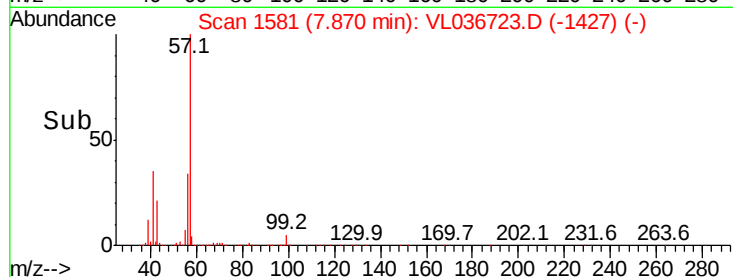
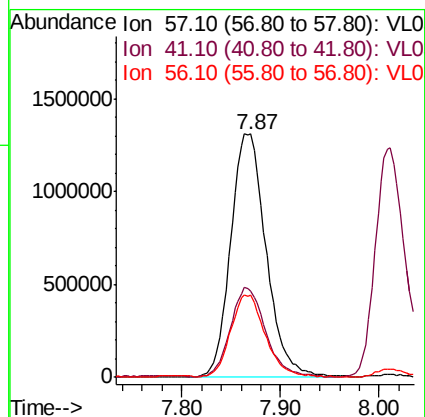
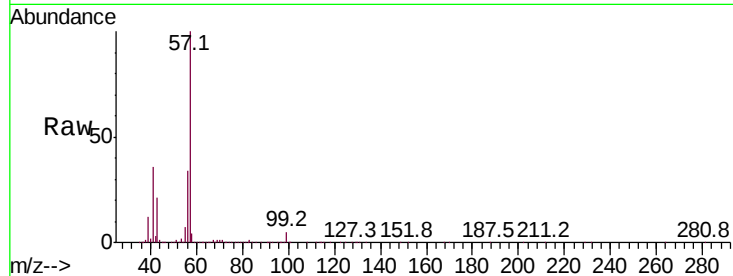
41 35.9 28.8 43.2

56 33.0 26.1 39.1

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#52

Tetrachloroethene

Concen: 0.070 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL036723.D

Acq: 7 Apr 2021 10:24

Tgt Ion: 164 Resp: 7178

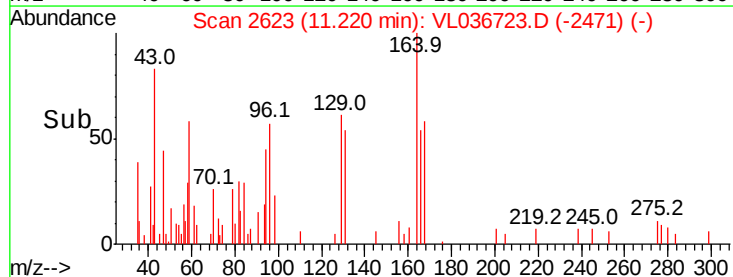
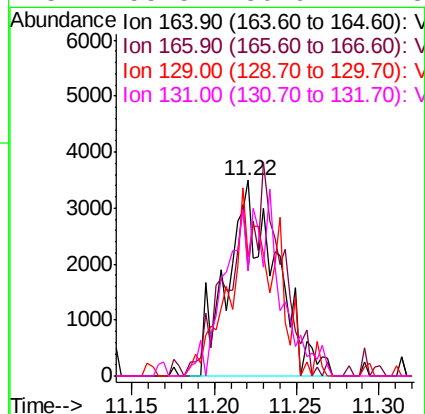
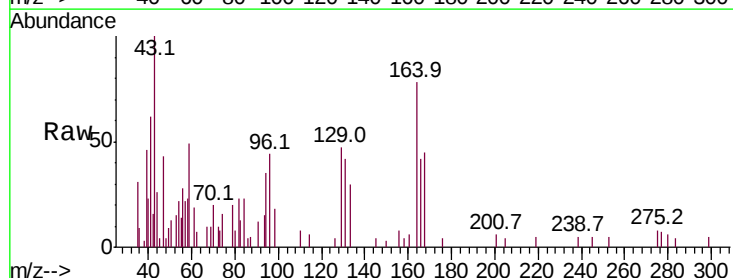
Ion Ratio Lower Upper

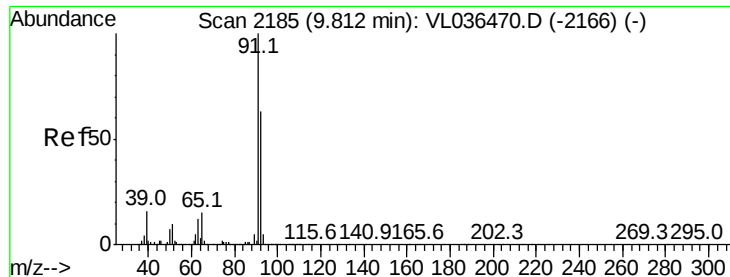
164 100

166 54.5 98.3 147.5#

129 60.5 85.8 128.8#

131 53.5 80.9 121.3#





#53

Toluene

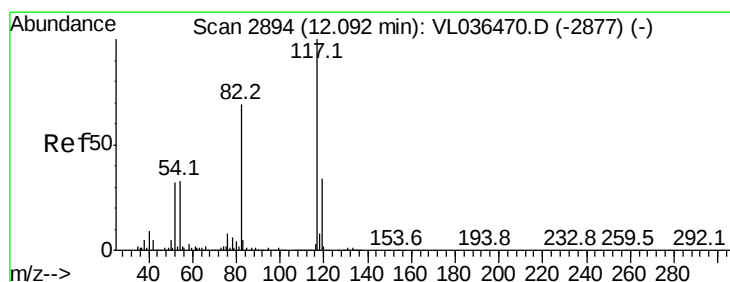
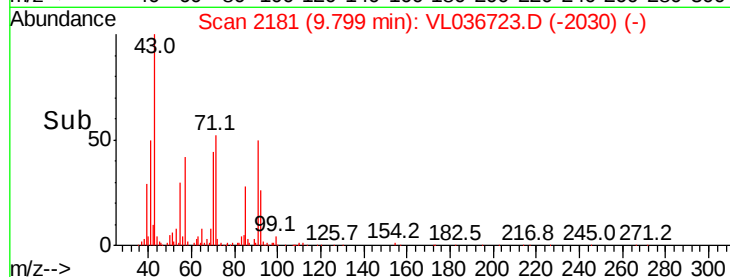
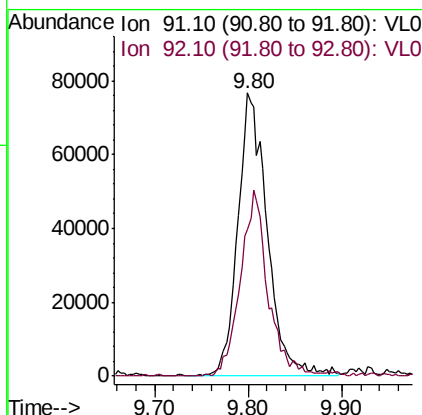
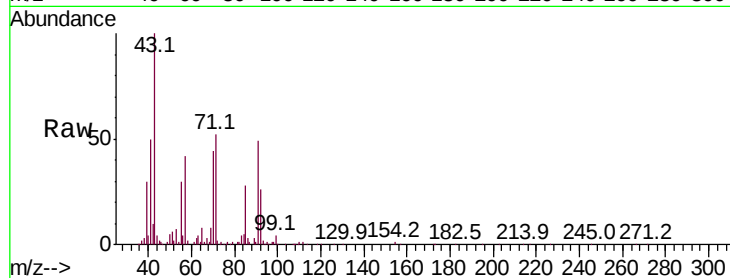
Concen: 0.572 ppbv m
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)

Tot Ion: 91 Resp: 168857
Ion Ratio Lower Upper
91 100
92 61.3 48.8 73.2

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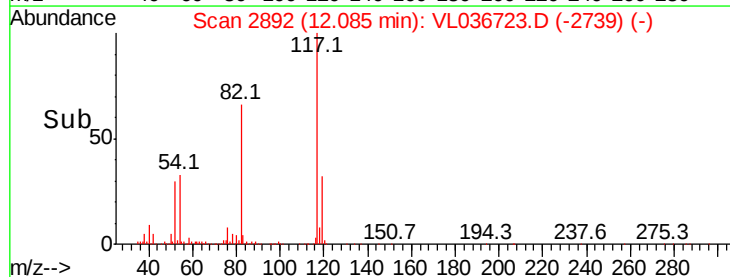
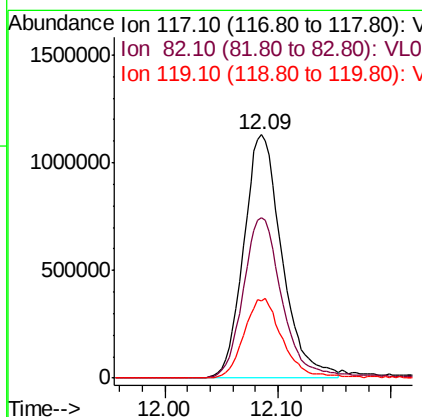
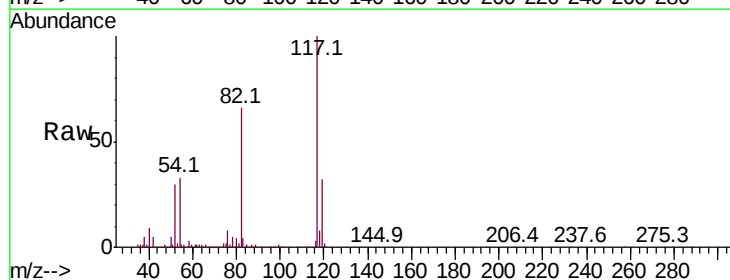


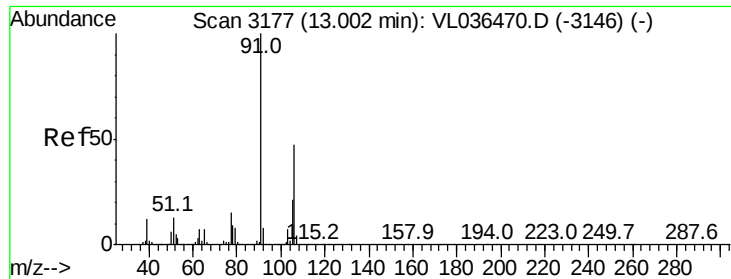
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Tgt Ion: 117 Resp: 2654804
Ion Ratio Lower Upper
117 100
82 69.0 57.4 86.0
119 33.4 47.4 71.0#





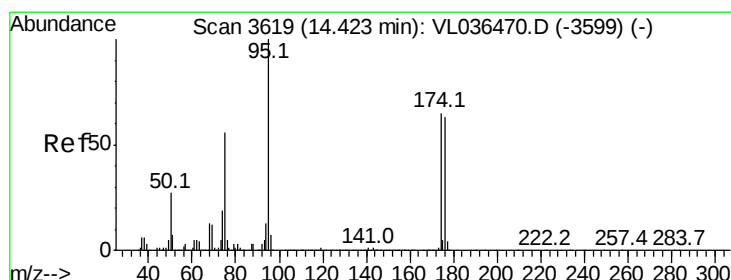
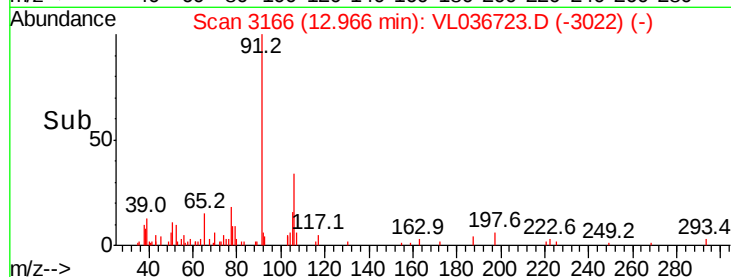
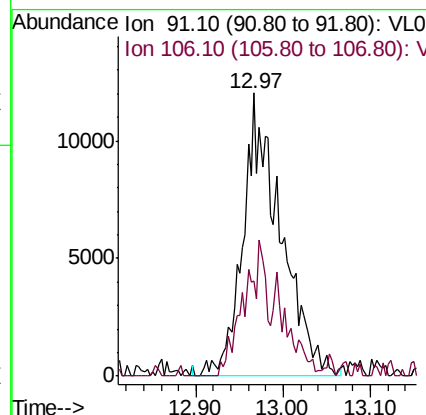
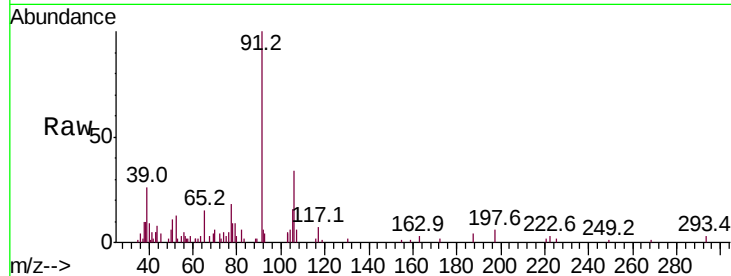
#59
m/p-Xylene
Concen: 0.107 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Instrument :
MSVOA_L
ClientSampled :
UP-SG-5(2021)

Tot Ion: 91 Resp: 35890
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.856 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036723.D
Acq: 7 Apr 2021 10:24

Tgt Ion: 95 Resp: 2085528
Ion Ratio Lower Upper
95 100
174 63.5 51.0 76.6
175 4.8 3.9 5.9

