

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041221\
 Data File : VL036793.D
 Acq On : 12 Apr 2021 18:35
 Operator : SY/AP
 Sample : M1877-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: Apr 12 19:42:16 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	1409257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3391861	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2699542	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1692943	7.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	78.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	32767m	0.143	ppbv	
3) Chlorodifluoromethane	2.99	51	60495	0.230	ppbv	95
4) Chloromethane	3.14	50	48597	0.523	ppbv	94
9) Propene	3.02	41	32015	0.381	ppbv #	76
10) Heptane	8.14	43	48400m	0.226	ppbv	
11) Trichlorofluoromethane	3.95	101	42767	0.183	ppbv	97
13) Ethanol	3.62	45	1086390	108.685	ppbv	93
15) Acetone	3.85	43	10646910	76.760	ppbv	100
19) Isopropyl Alcohol	3.99	45	2752753	36.078	ppbv	99
20) Methylene Chloride	4.35	84	2769627	42.648	ppbv	92
25) Ethyl Acetate	5.69	43	3197240m	9.696	ppbv	
26) Hexane	5.69	57	2758760	18.028	ppbv #	63
30) Cyclohexane	7.13	84	39510m	0.318	ppbv	
34) 2-Butanone	5.25	43	33962	0.205	ppbv #	54
35) Carbon Tetrachloride	7.02	117	16885m	0.065	ppbv	
36) Benzene	6.90	78	85373	0.273	ppbv	93
43) Methyl Methacrylate	8.02	69	744267	7.085	ppbv	98
44) 2,2,4-Trimethylpentane	7.88	57	1475839	2.681	ppbv	98
53) Toluene	9.82	91	129030	0.387	ppbv	98
59) m/p-Xylene	12.98	91	28467m	0.083	ppbv	

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

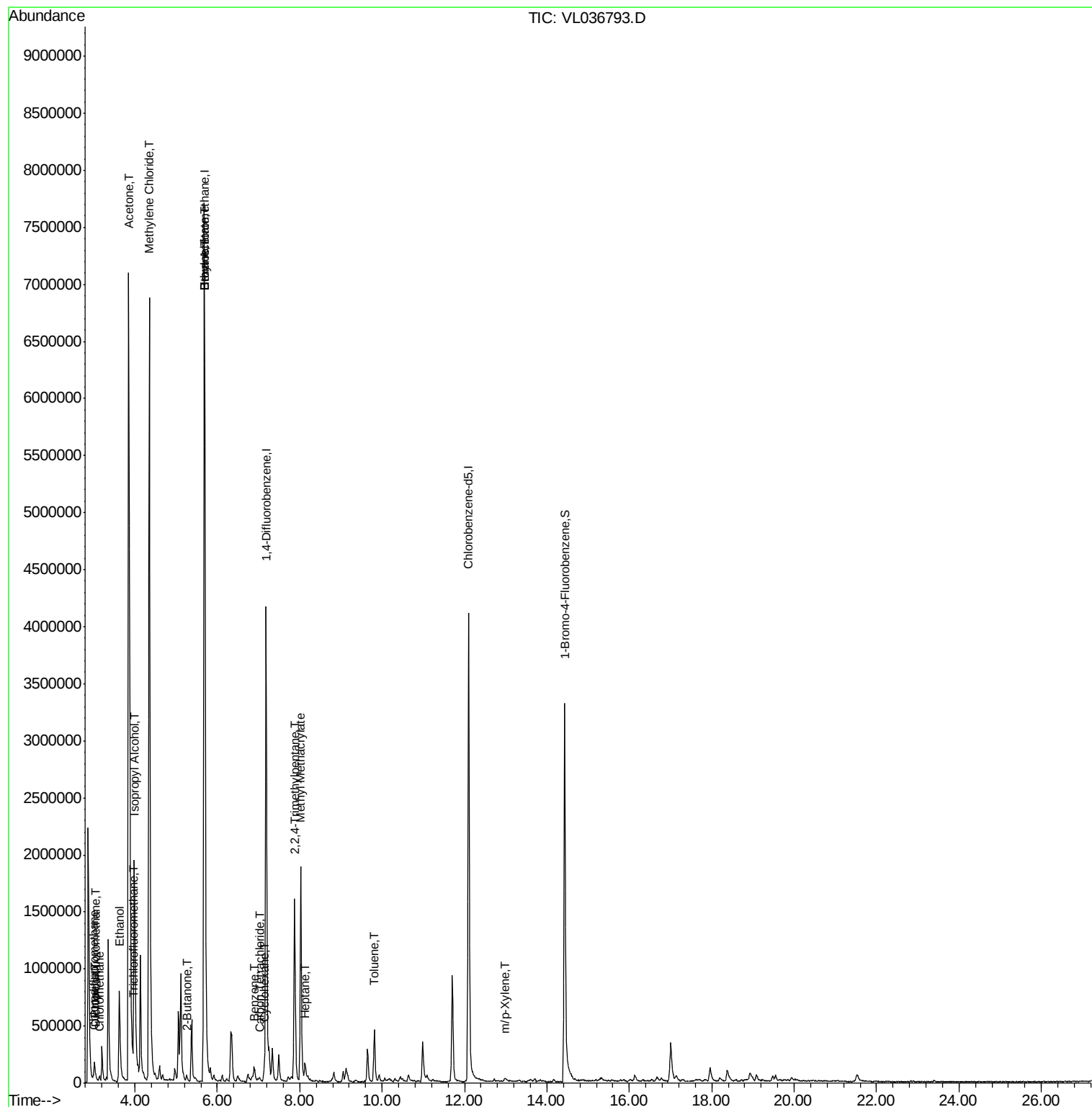
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041221\
Data File : VL036793.D
Acq On : 12 Apr 2021 18:35
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Quant Time: Apr 12 19:42:16 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: 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# 898

Delta R.T. 0.00 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 49 Resp: 1409257

Ion Ratio Lower Upper

49 100

128 44.2 23.5 70.6

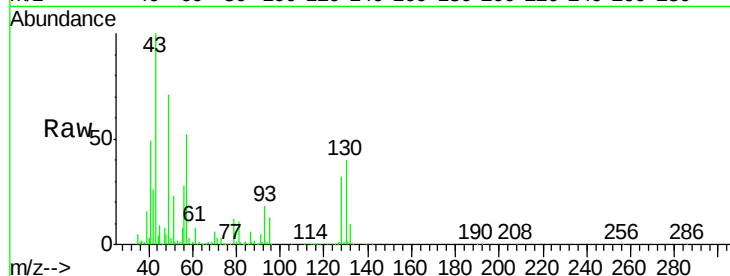
130 57.7 29.1 87.4

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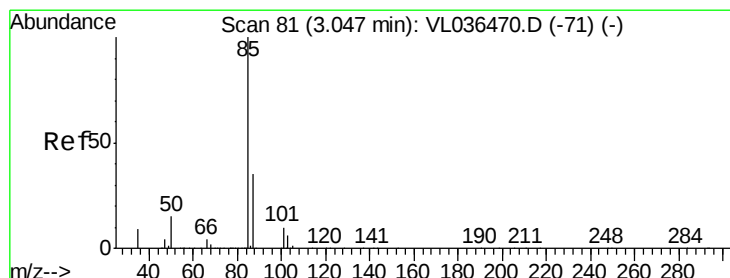
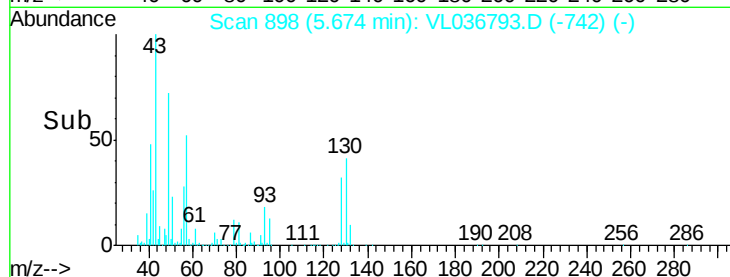
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 0.143 ppbv m

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036793.D

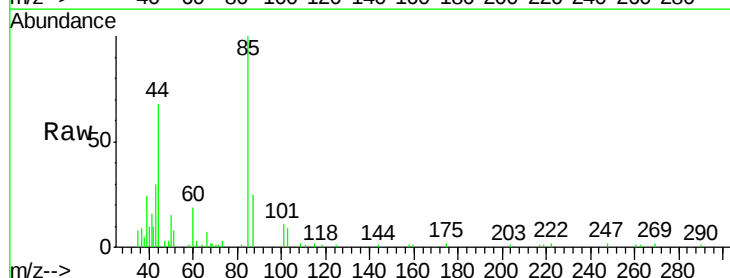
Acq: 12 Apr 2021 18:35

Tgt Ion: 85 Resp: 32767

Ion Ratio Lower Upper

85 100

87 24.9 27.8 41.8#

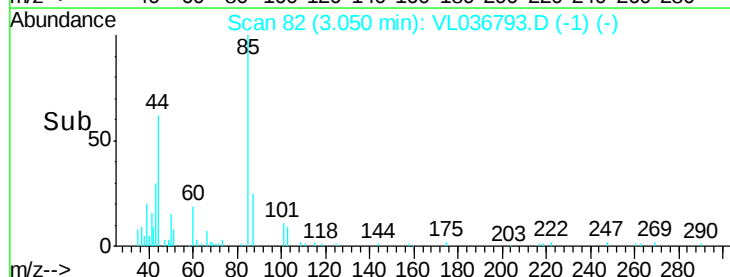


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.230 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 51 Resp: 60495

Ion Ratio Lower Upper

51 100

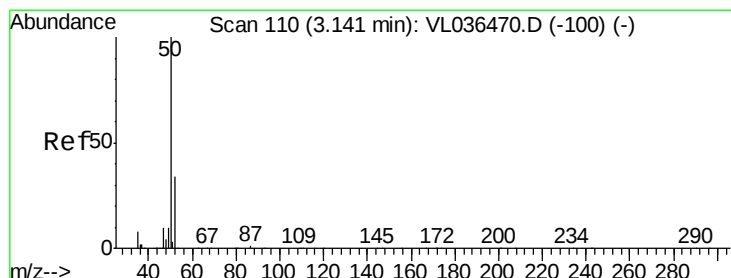
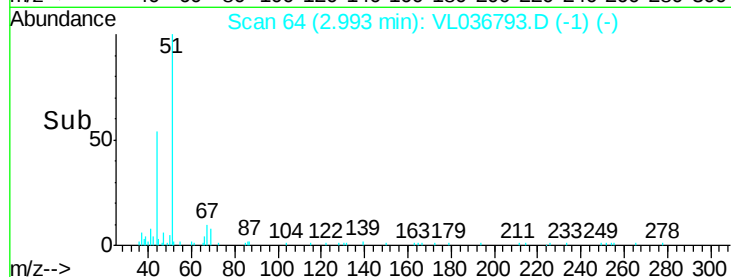
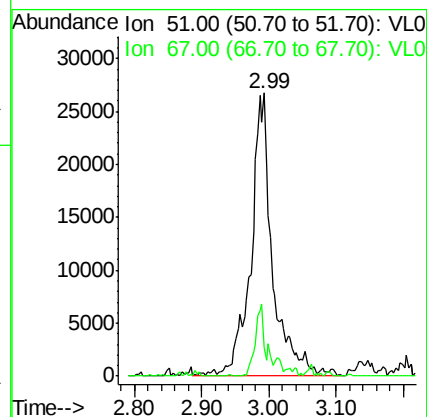
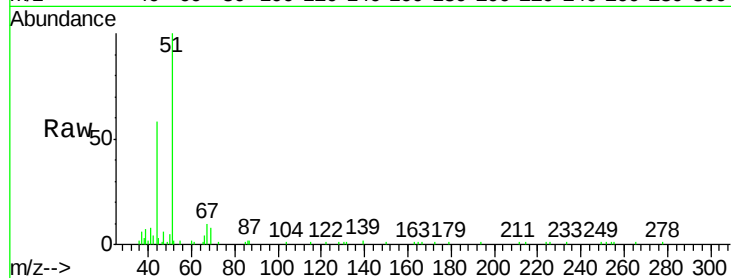
67 16.0 14.7 22.1

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#4

Chloromethane

Concen: 0.523 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036793.D

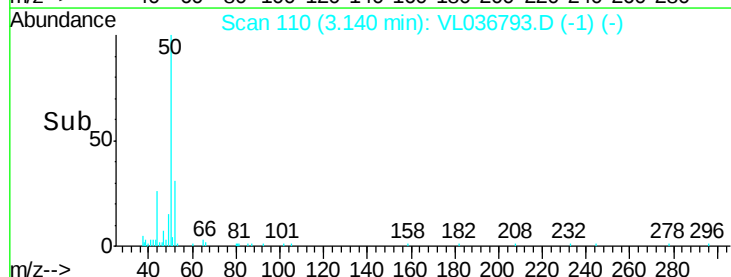
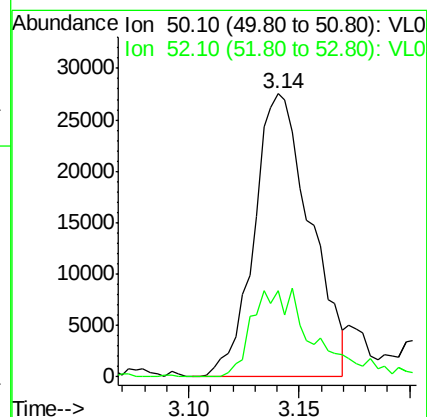
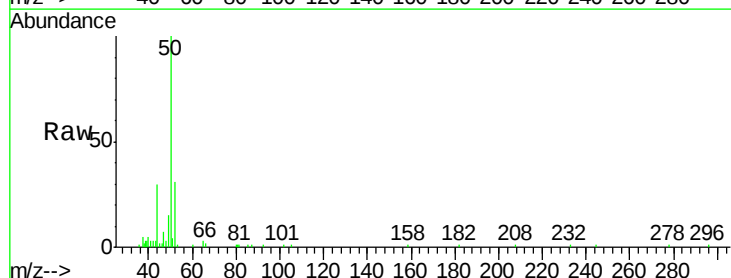
Acq: 12 Apr 2021 18:35

Tgt Ion: 50 Resp: 48597

Ion Ratio Lower Upper

50 100

52 30.5 27.0 40.6





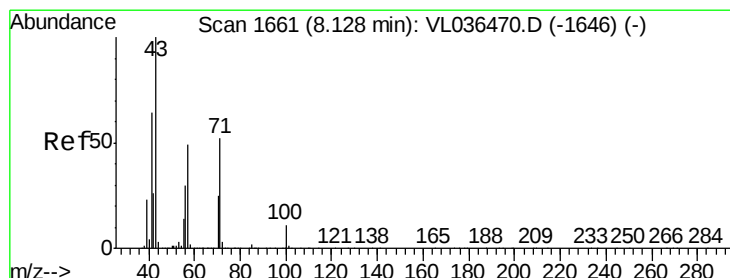
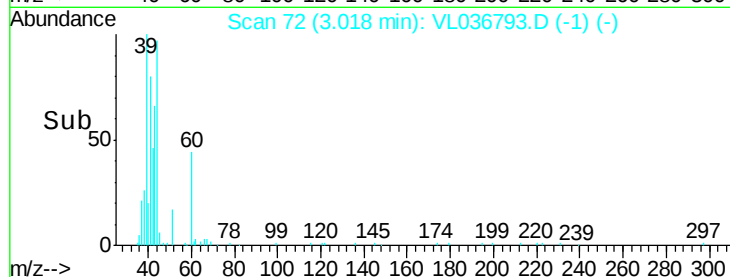
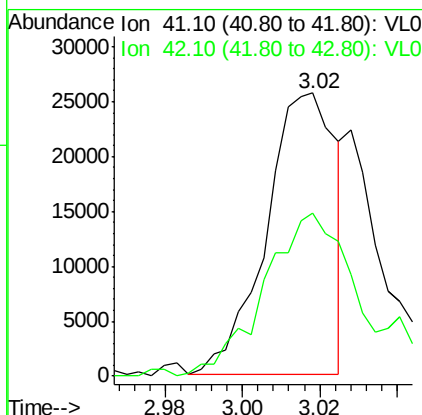
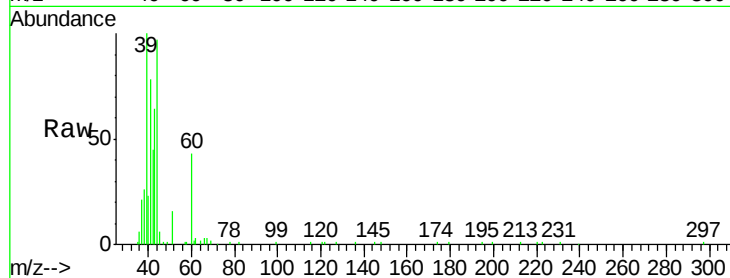
#9
 Propene
 Concen: 0.381 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL036793.D
 Acq: 12 Apr 2021 18:35

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

Tot Ion	Ratio	Lower	Upper
41	100		
42	91.1	57.0	85.4#

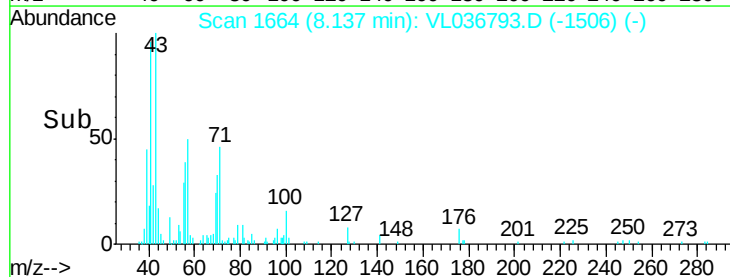
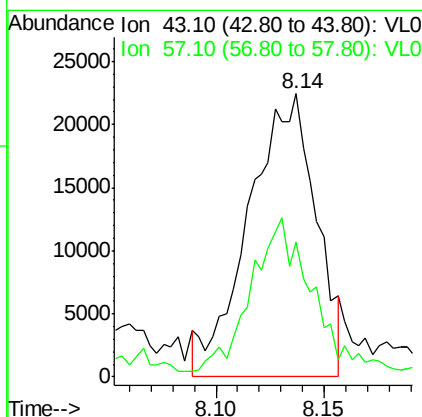
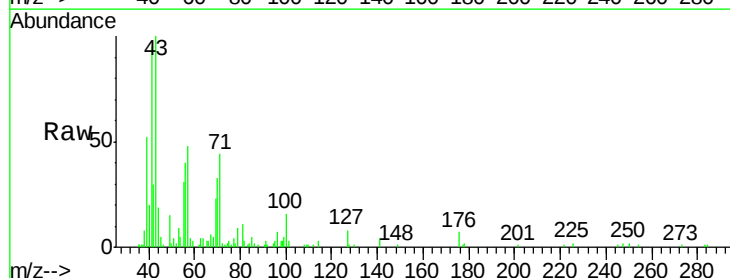
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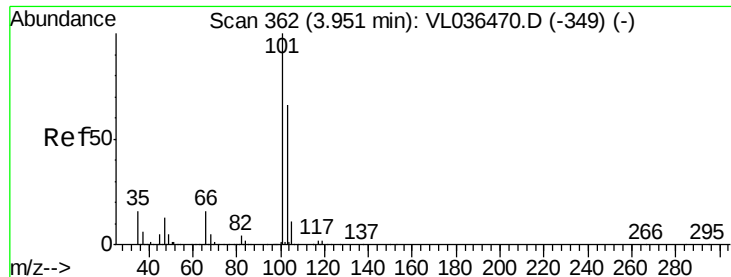
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#10
 Heptane
 Concen: 0.226 ppbv m
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VL036793.D
 Acq: 12 Apr 2021 18:35

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.0	58.6#





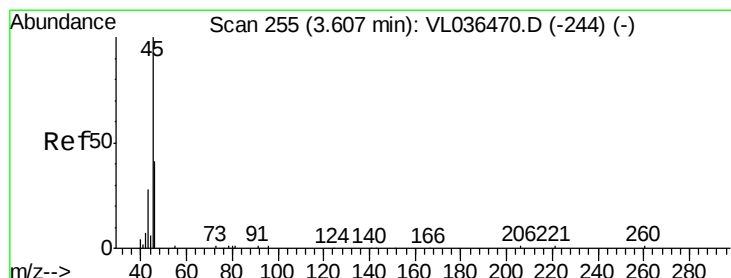
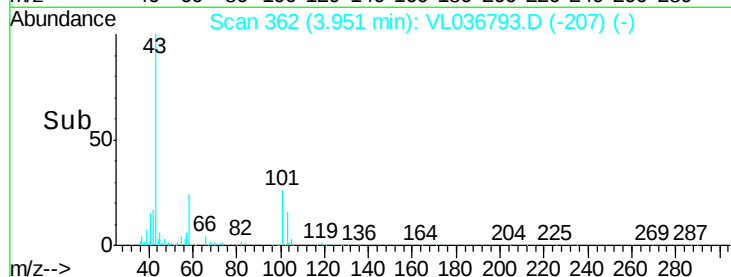
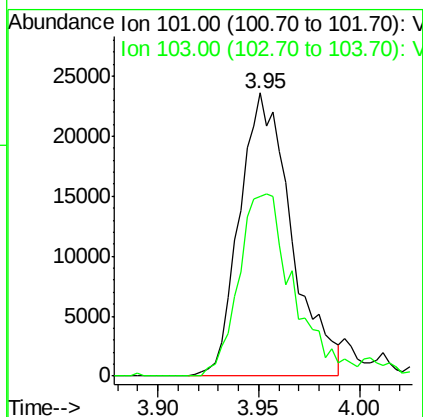
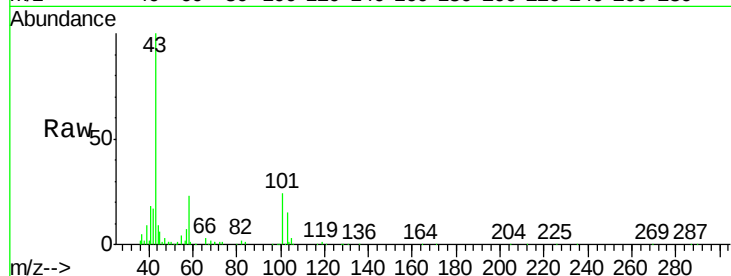
#11
Trichlorofluoromethane
Concen: 0.183 ppbv
RT: 3.95 min Scan# 362
Delta R.T. -0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

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

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.5	78.7

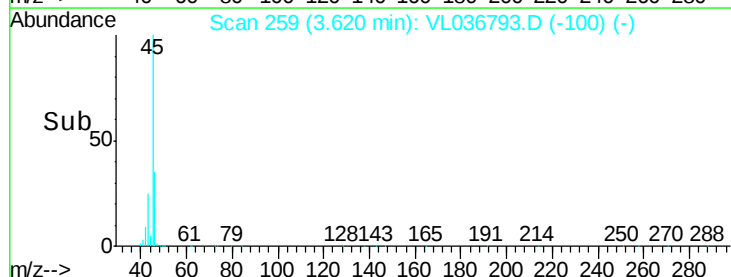
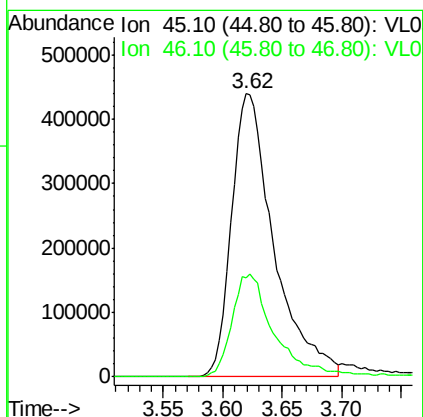
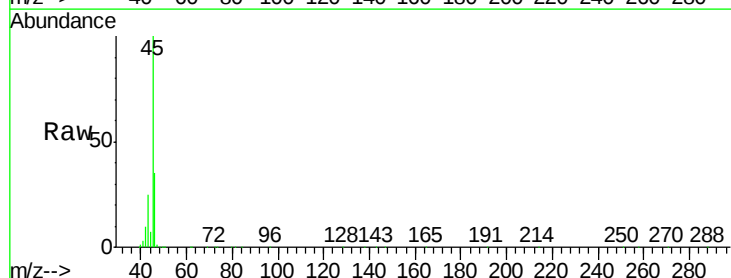
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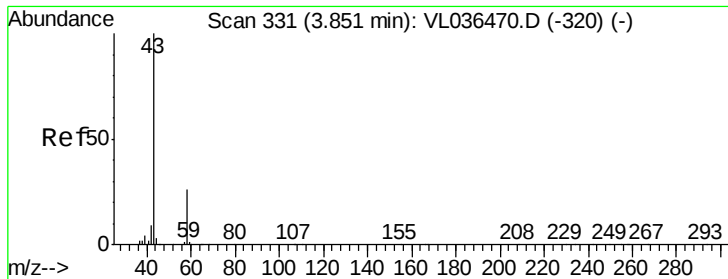
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#13
Ethanol
Concen: 108.685 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.0	16.6	66.2





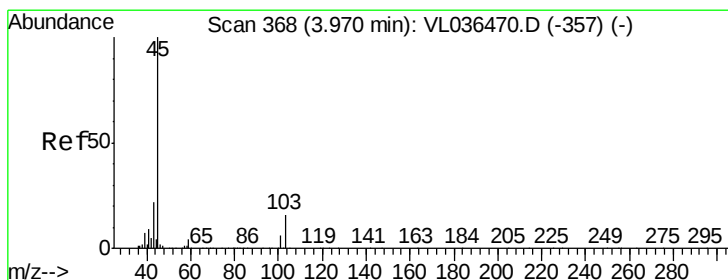
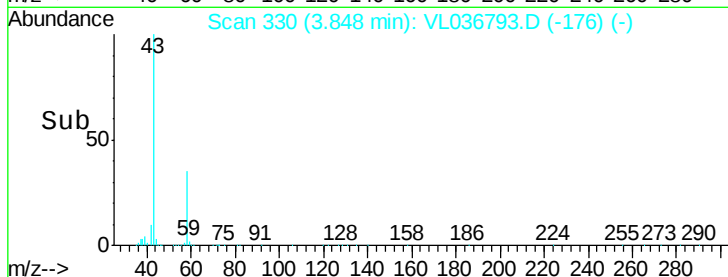
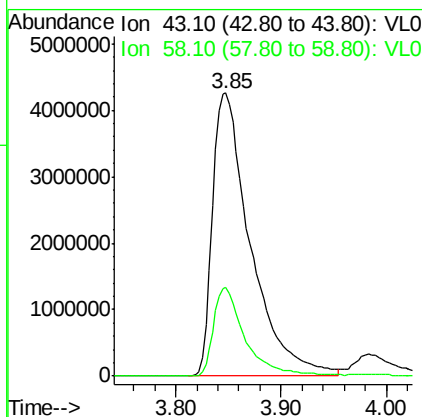
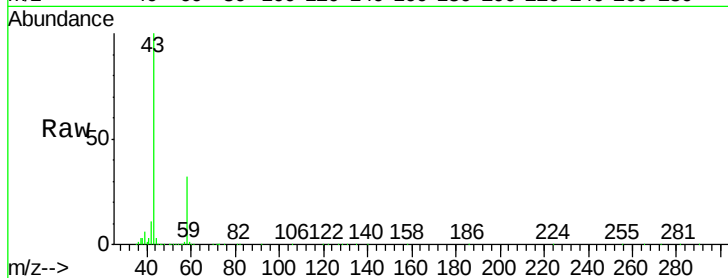
#15
Acetone
Concen: 76.760 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

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

Tot Ion: 43 Resp:10646910
Ion Ratio Lower Upper
43 100
58 26.3 21.2 31.8

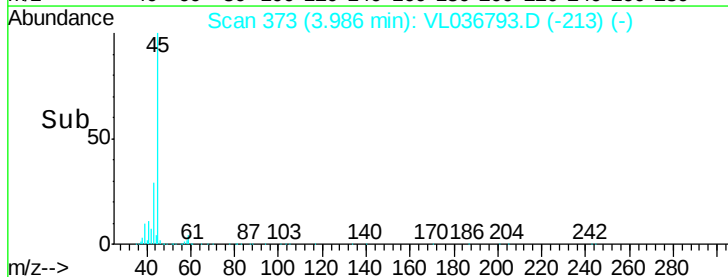
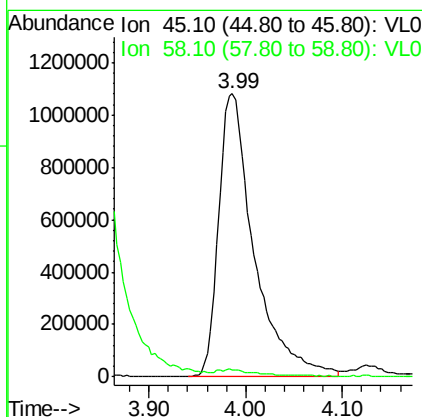
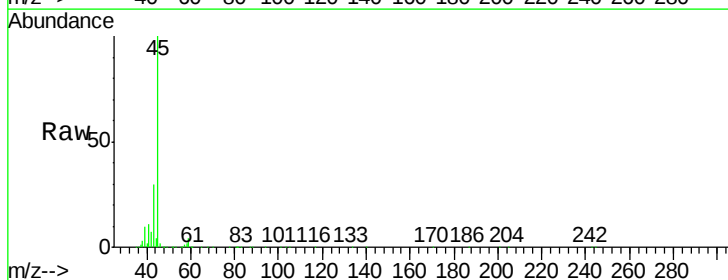
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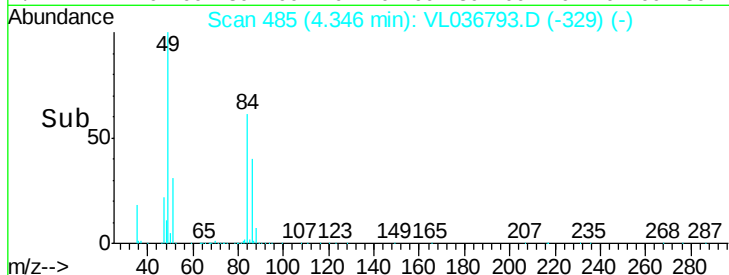
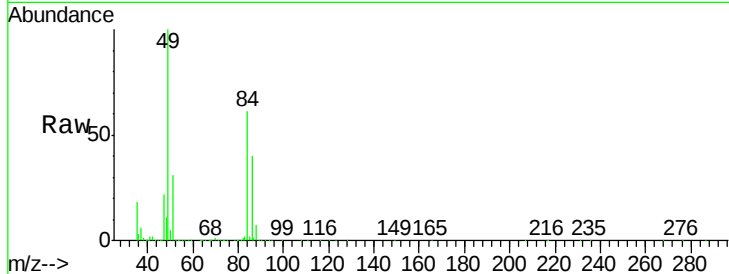
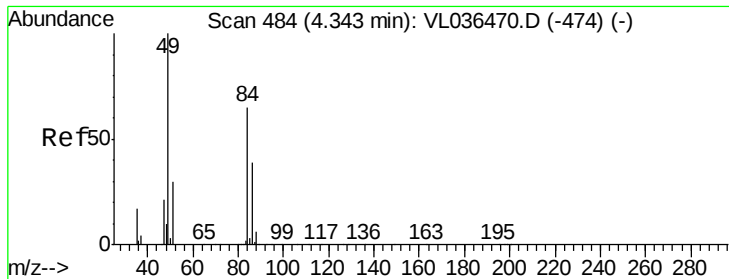
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#19
Isopropyl Alcohol
Concen: 36.078 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion: 45 Resp: 2752753
Ion Ratio Lower Upper
45 100
58 3.2 2.9 4.3





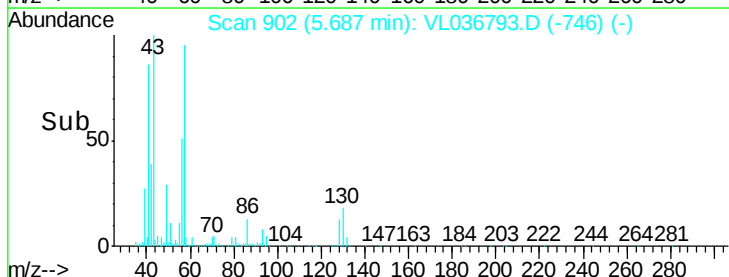
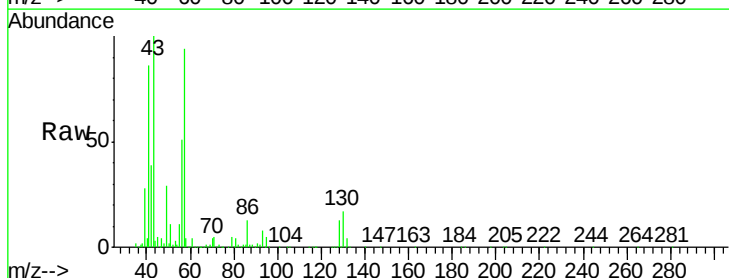
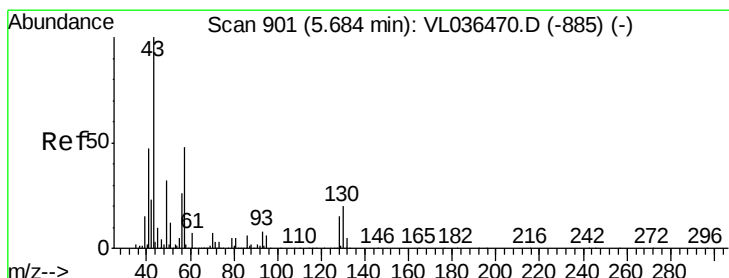
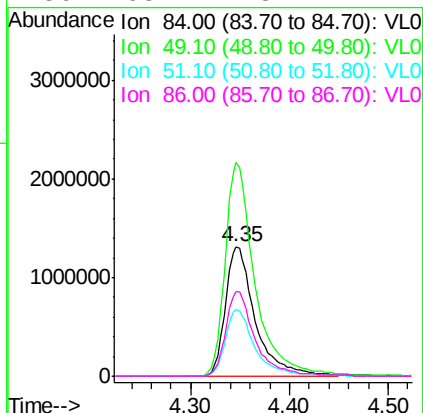
#20
Methvlene Chloride
Concen: 42.648 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tot Ion	84	Resp	2769627
Ion	Ratio	Lower	Upper
84	100		
49	165.1	122.9	184.3
51	51.8	36.9	55.3
86	65.7	48.2	72.4

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

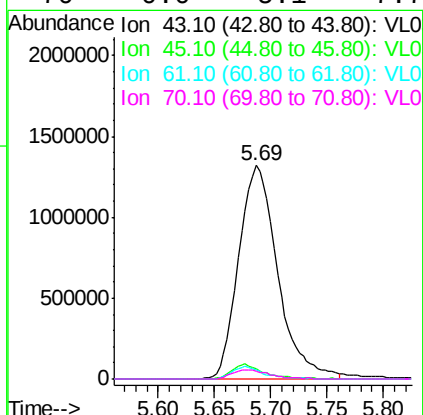
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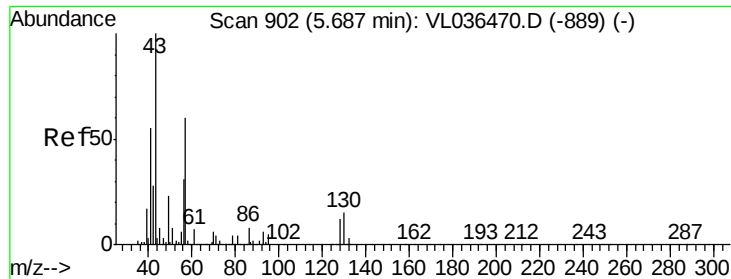
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#25
Ethyl Acetate
Concen: 9.696 ppbv m
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion	43	Resp	3197240
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.0	7.4	11.2#
70	0.0	5.1	7.7#





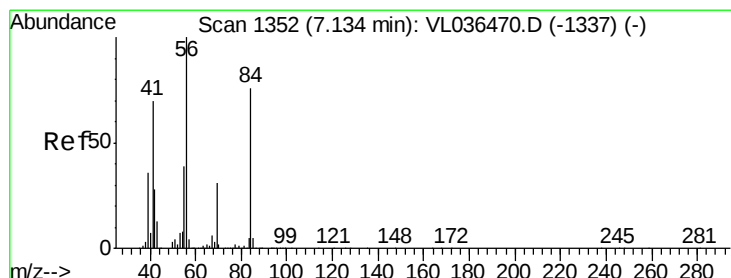
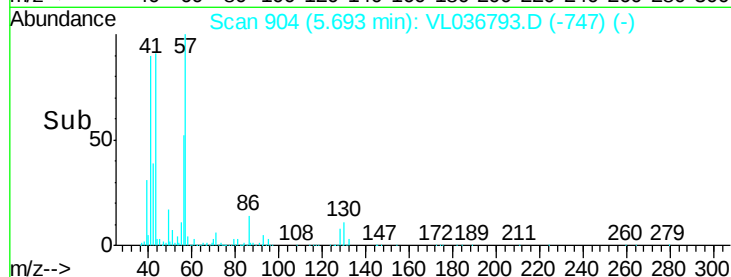
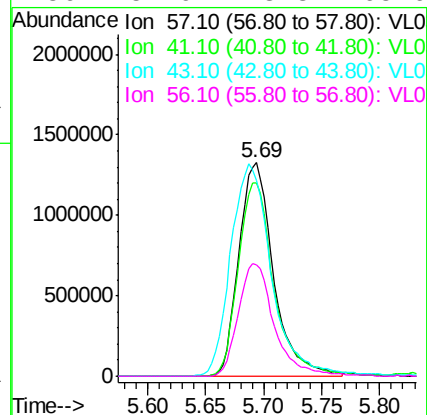
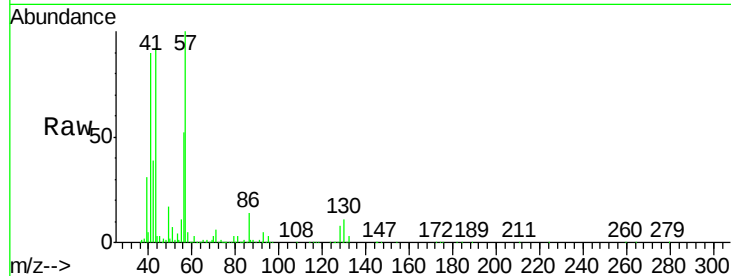
#26
Hexane
Concen: 18.028 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

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

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.7	77.2	115.8
43	118.1	173.8	260.6#
56	54.9	43.8	65.6

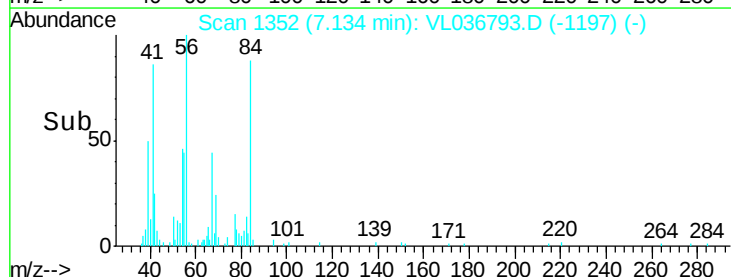
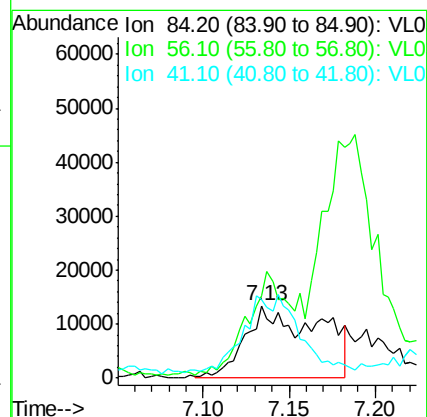
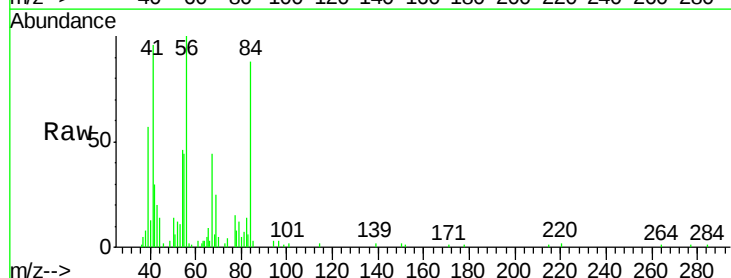
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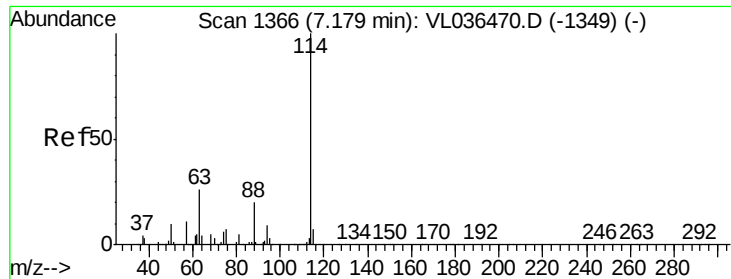
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#30
Cyclohexane
Concen: 0.318 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	0.0	75.3	112.9#





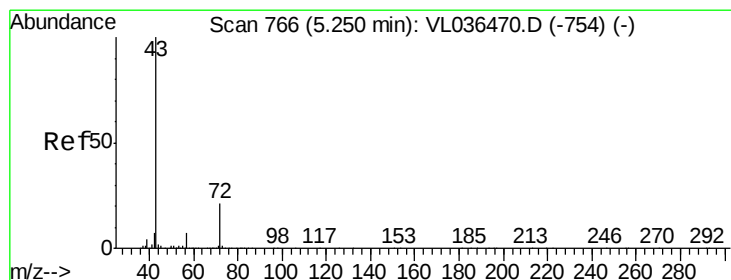
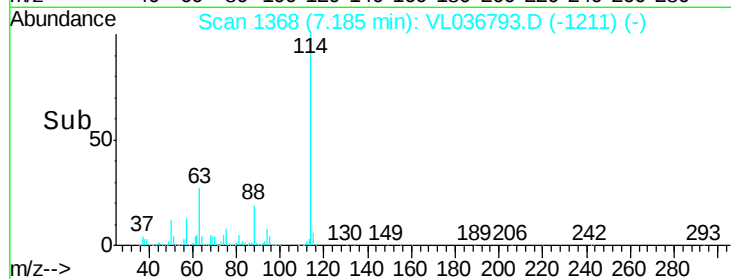
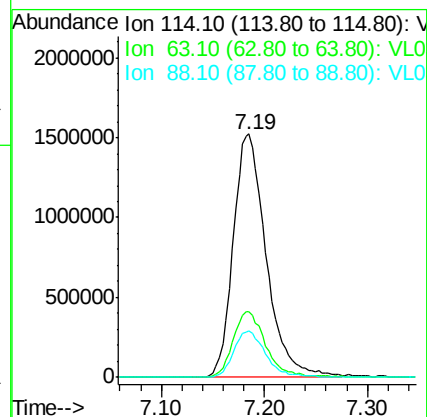
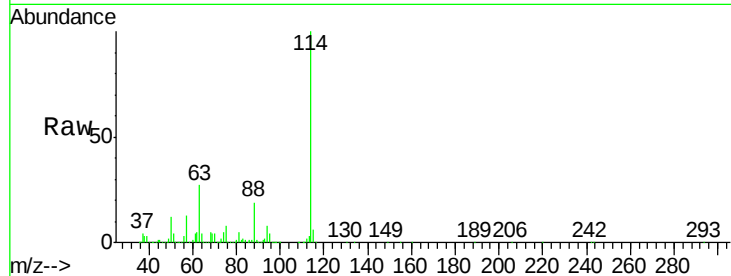
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL036793.D
 Acq: 12 Apr 2021 18:35

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.4	33.6
88	18.8	15.4	23.0

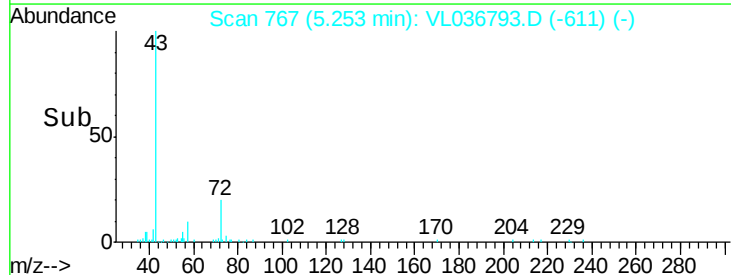
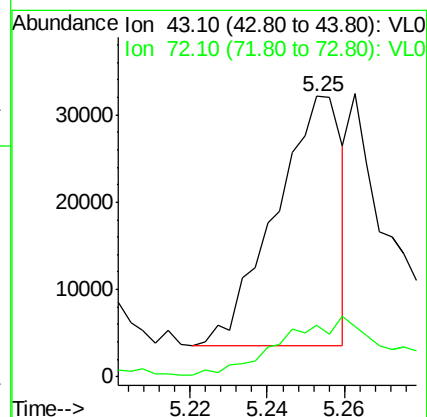
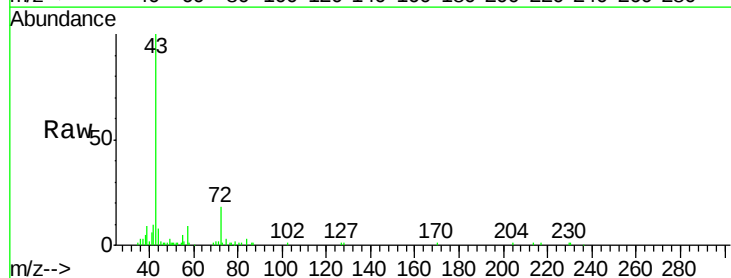
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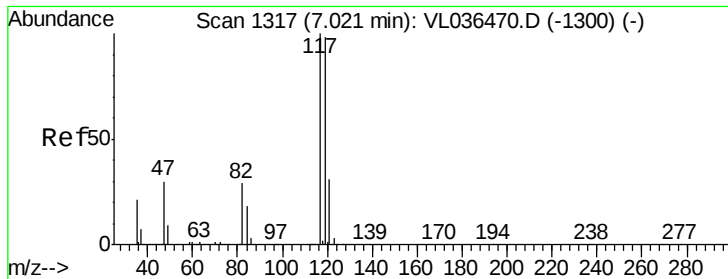
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#34
 2-Butanone
 Concen: 0.205 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL036793.D
 Acq: 12 Apr 2021 18:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	43.2	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

Instrument :

MSVOA_L

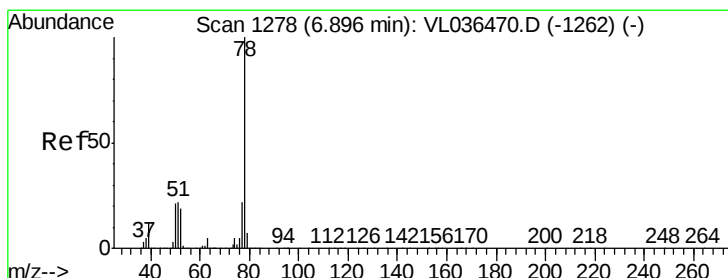
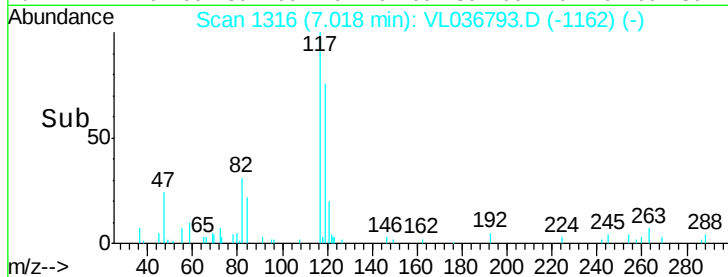
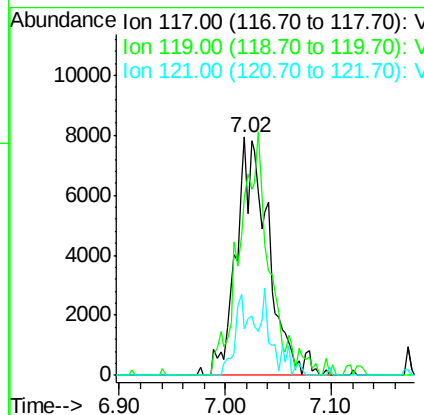
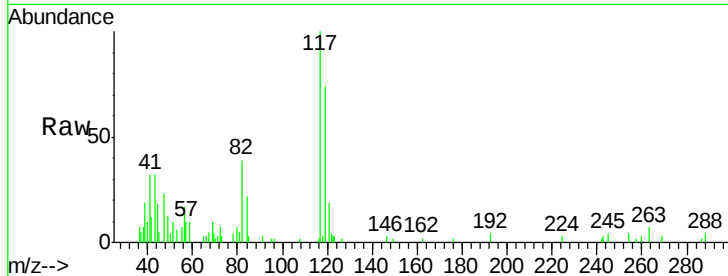
ClientSampleId :

UP-SG-5(2021)

Tot Ion	Ratio	Lower	Upper
117	100		
119	74.5	78.2	117.2#
121	19.4	24.5	36.7#

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#36

Benzene

Concen: 0.273 ppbv

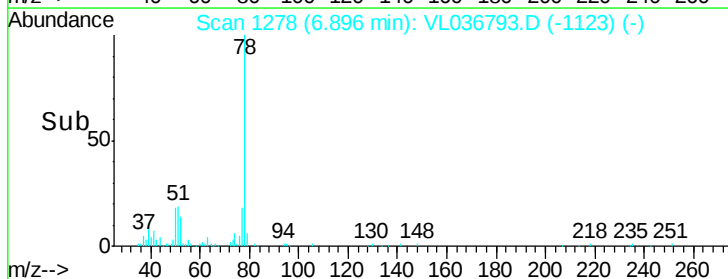
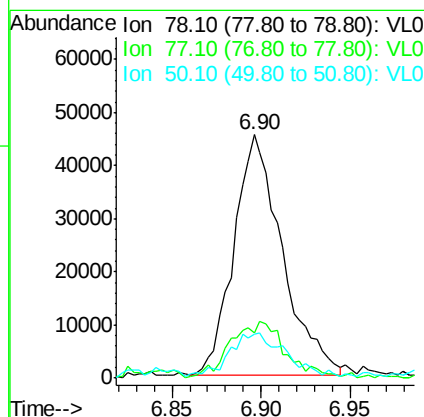
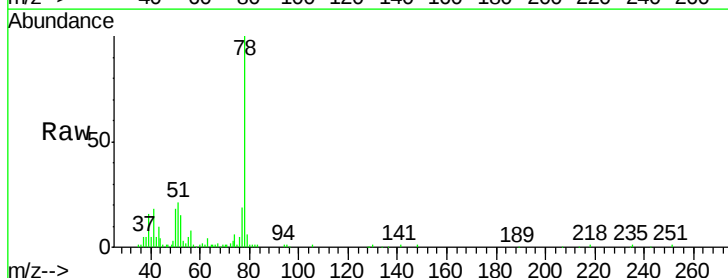
RT: 6.90 min Scan# 1278

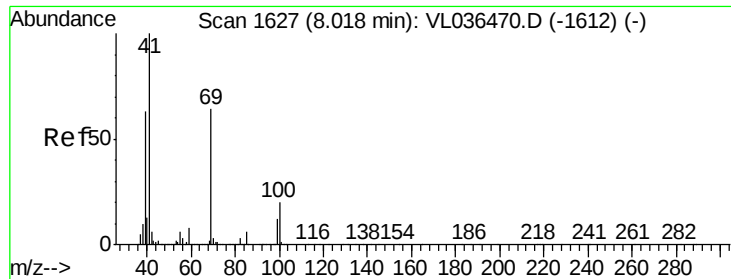
Delta R.T. -0.00 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.3	18.0	27.0
50	17.8	16.5	24.7





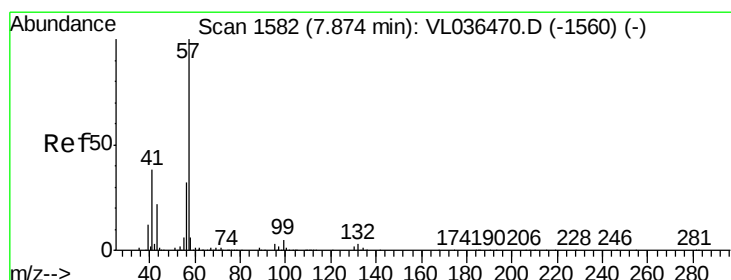
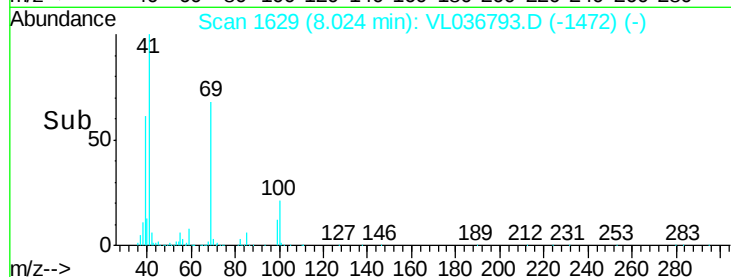
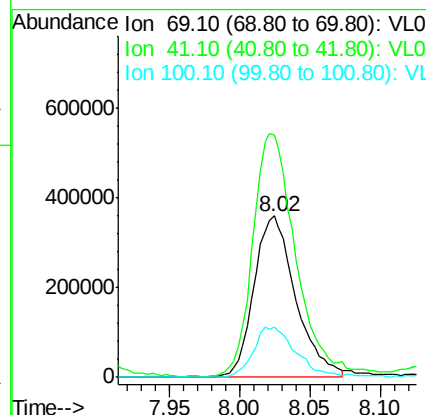
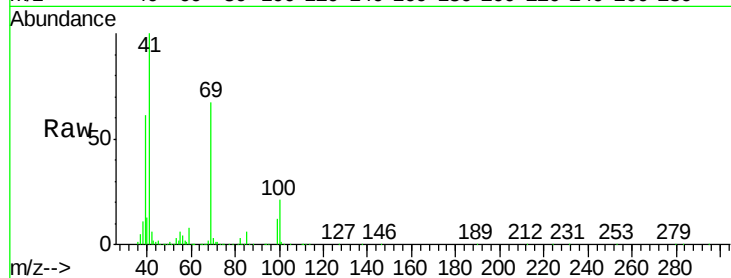
#43
Methvl Methacrilate
Concen: 7.085 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. 0.01 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

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

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	156.5	126.8	190.2	
100	32.7	24.9	37.3	

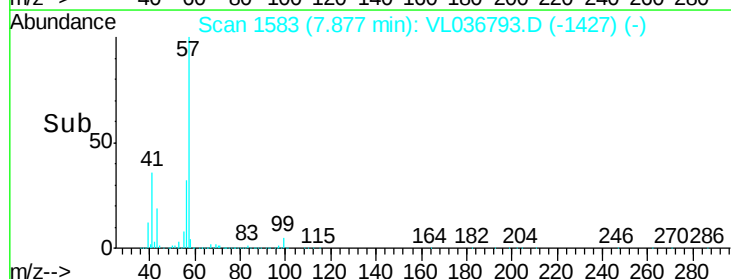
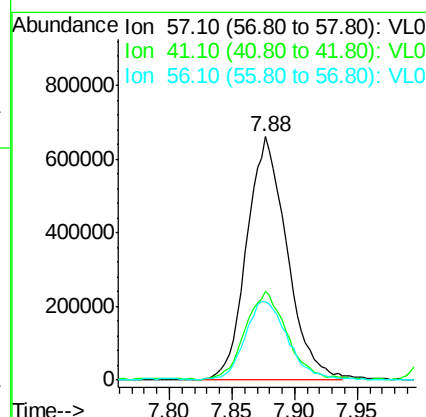
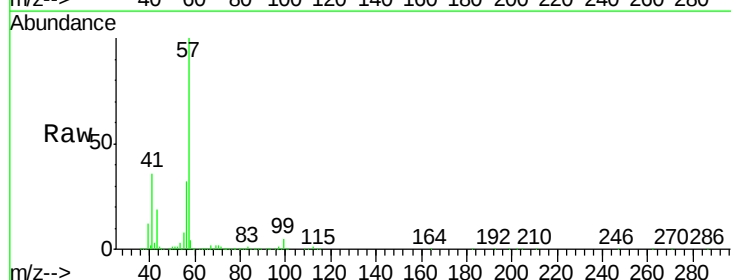
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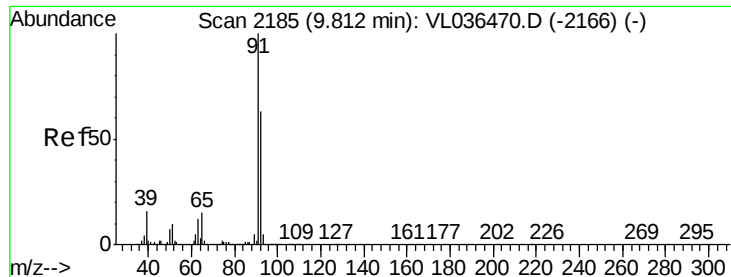
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#44
2,2,4-Trimethylpentane
Concen: 2.681 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	37.2	28.8	43.2	
56	34.2	26.1	39.1	





#53

Toluene

Concen: 0.387 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)

Tot Ion: 91 Resp: 129030

Ion Ratio Lower Upper

91 100

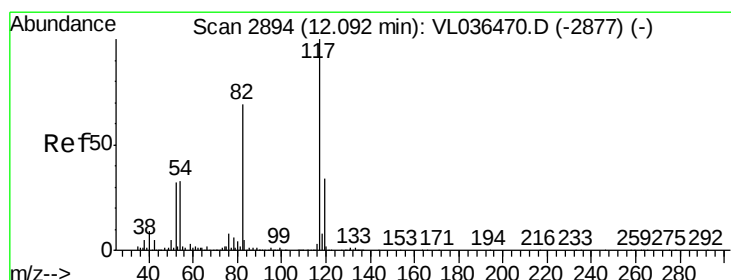
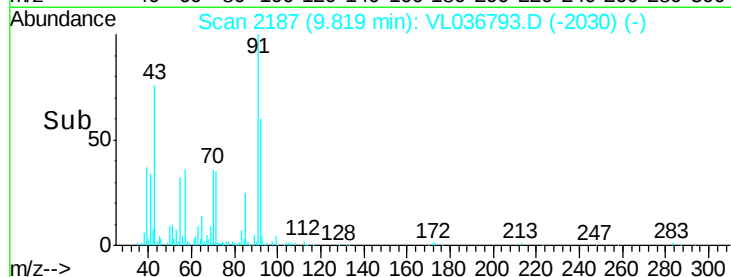
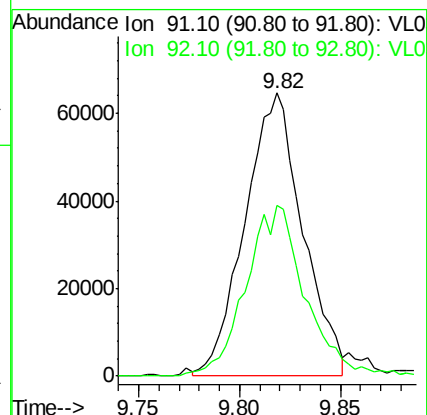
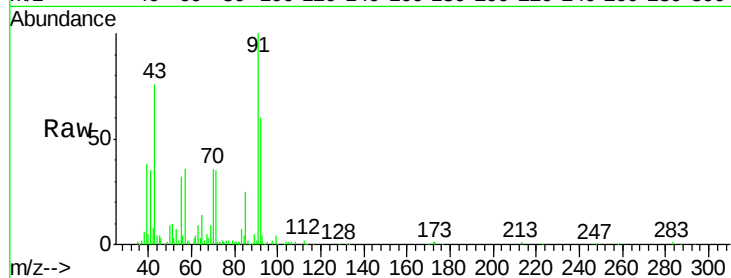
92 62.3 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL036793.D

Acq: 12 Apr 2021 18:35

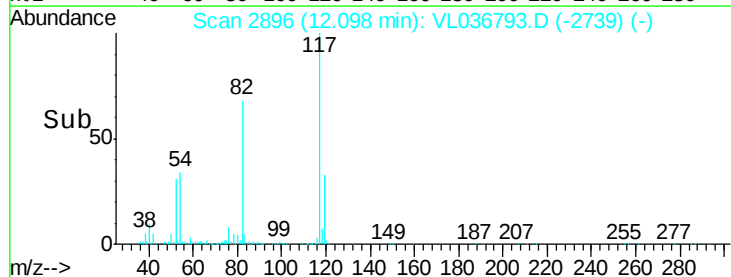
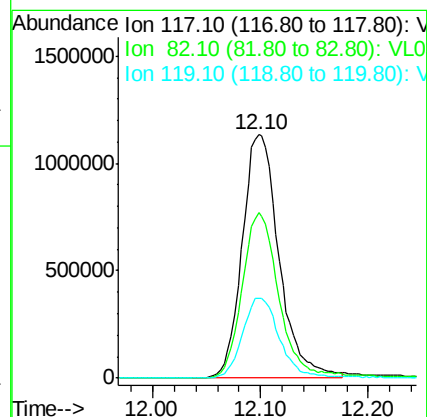
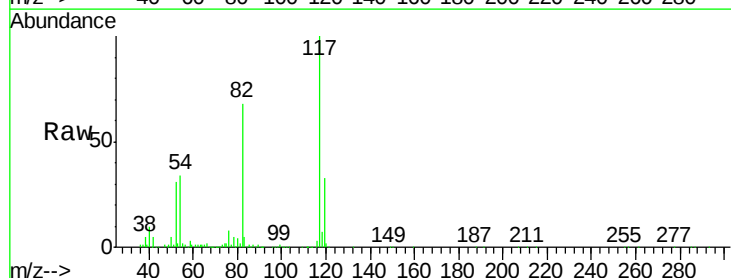
Tgt Ion: 117 Resp: 2699542

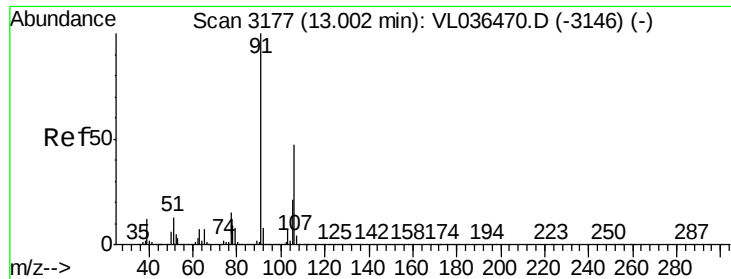
Ion Ratio Lower Upper

117 100

82 69.0 57.4 86.0

119 33.9 47.4 71.0#





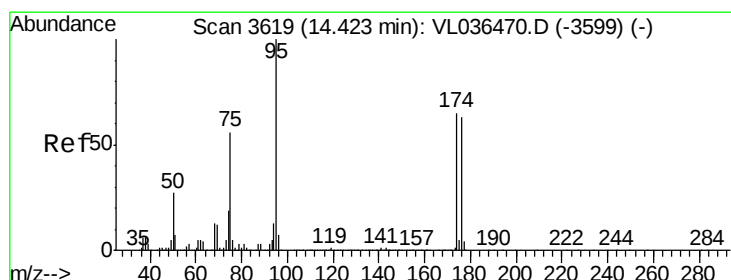
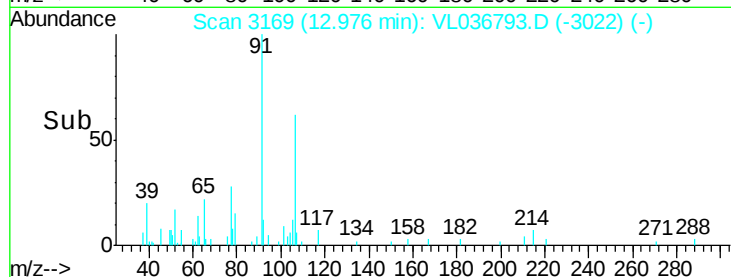
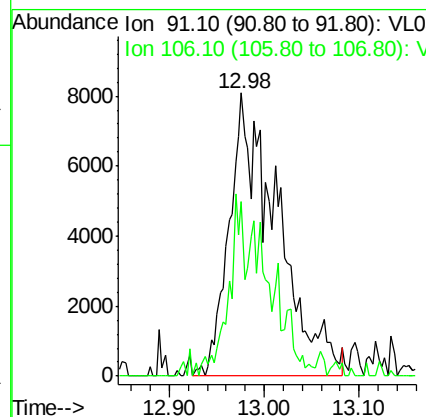
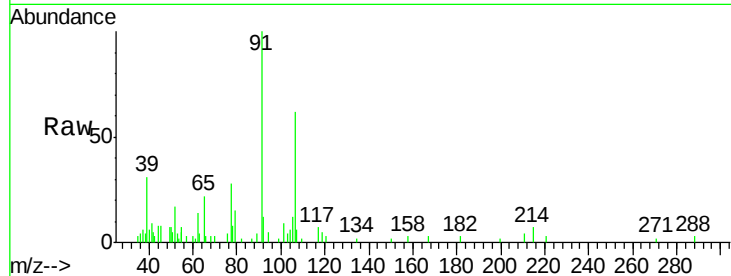
#59
m/p-Xylene
Concen: 0.083 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

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

Tot Ion: 91 Resp: 28467
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

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#68
1-Bromo-4-Fluorobenzene
Concen: 7.868 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL036793.D
Acq: 12 Apr 2021 18:35

Tgt Ion: 95 Resp: 1692943
Ion Ratio Lower Upper
95 100
174 67.0 51.0 76.6
175 4.7 3.9 5.9

