

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036880.D
 Acq On : 28 Apr 2021 15:23
 Operator : SY/AP
 Sample : M2201-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

MMDadoda
 4/29/2021 5:53:42 PM

Quant Time: Apr 29 03:28:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 2
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1503018	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3482615	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3084020	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2387369	9.64	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.06	85	44305	0.187	ppbv	97
3) Chlorodifluoromethane	3.00	51	85321	0.312	ppbv #	87
4) Chloromethane	3.15	50	51560	0.573	ppbv	97
9) Propene	3.03	41	2520658m	30.214	ppbv	
11) Trichlorofluoromethane	3.96	101	40380	0.191	ppbv	95
13) Ethanol	3.72	45	75234302m	7071.469	ppbv	
15) Acetone	3.86	43	4280378	30.215	ppbv	97
17) tert-Butyl alcohol	4.41	59	545928m	4.748	ppbv	
20) Methylene Chloride	4.36	84	459753	6.787	ppbv	92
26) Hexane	5.70	57	332438	2.053	ppbv #	45
29) Chloroform	5.76	83	45703m	0.181	ppbv	
30) Cyclohexane	7.18	84	39807m	0.310	ppbv	
34) 2-Butanone	5.27	43	96888m	0.635	ppbv	
35) Carbon Tetrachloride	7.03	117	16260m	0.069	ppbv	
36) Benzene	6.91	78	58198m	0.198	ppbv	
52) Tetrachloroethene	11.25	164	4646m	0.046	ppbv	
53) Toluene	9.83	91	477394	1.555	ppbv	98

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

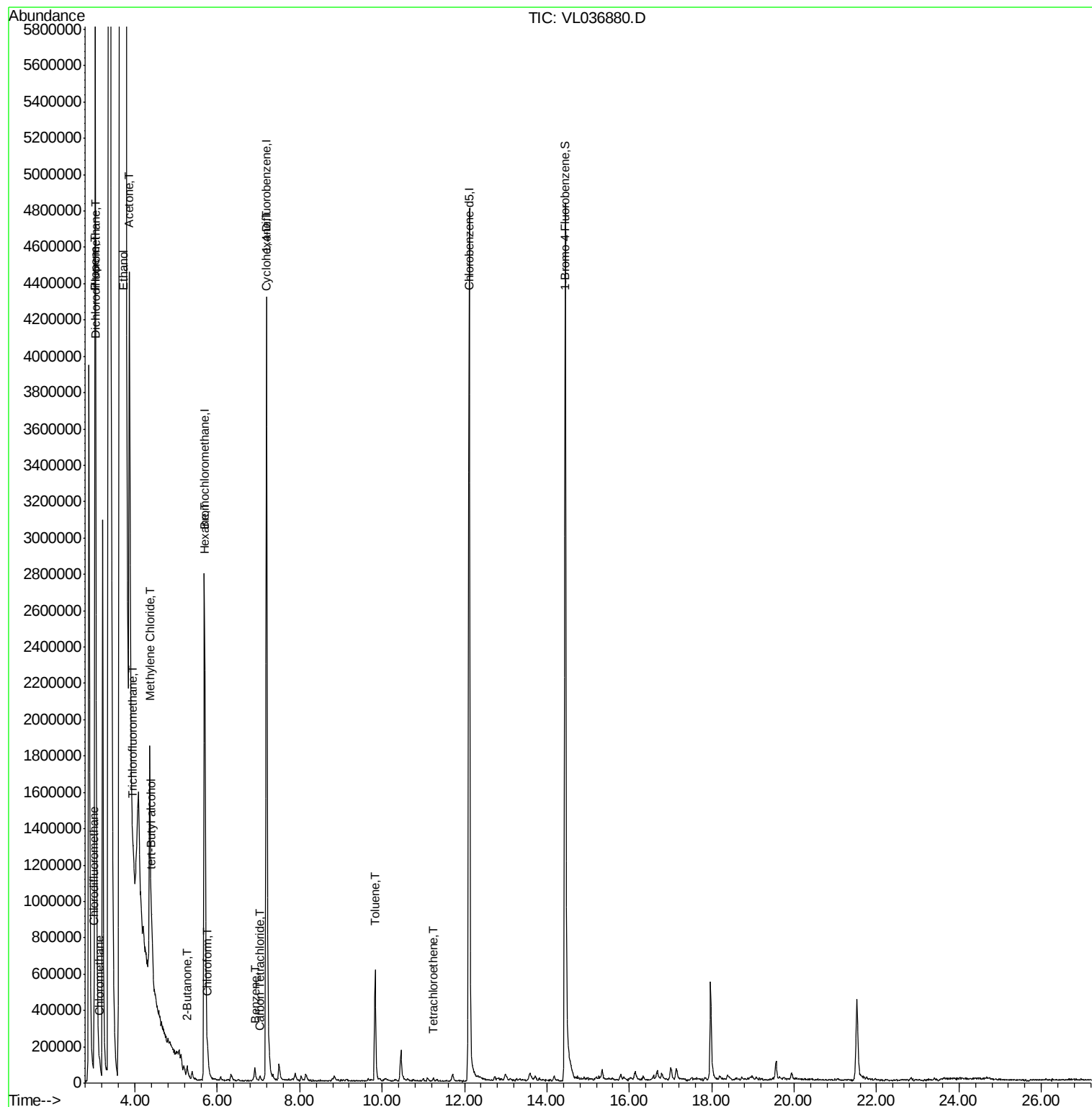
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042821\
Data File : VL036880.D
Acq On : 28 Apr 2021 15:23
Operator : SY/AP
Sample : M2201-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

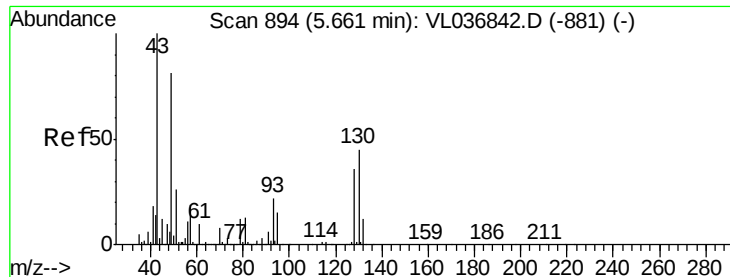
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

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Quant Time: Apr 29 03:28:48 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

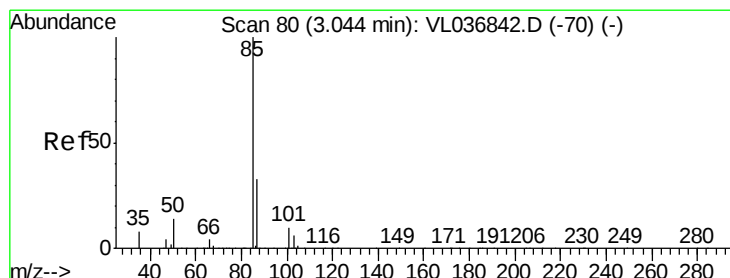
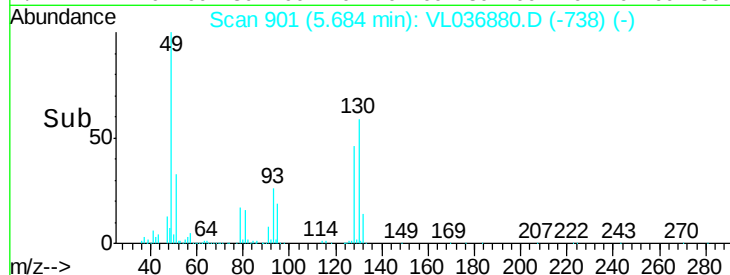
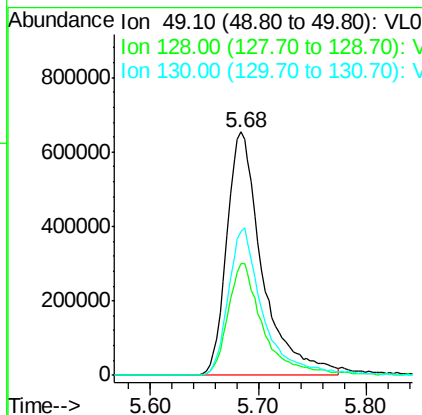
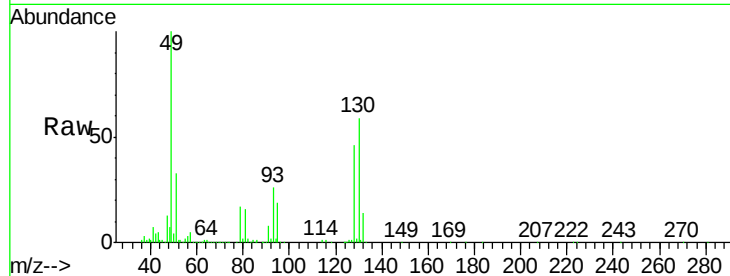
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.02 min
 Lab File: VL036880.D
 Acq: 28 Apr 2021 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion: 49 Resp: 1503018
 Ion Ratio Lower Upper
 49 100
 128 46.6 24.4 73.2
 130 59.7 30.3 90.8

Manual Integrations
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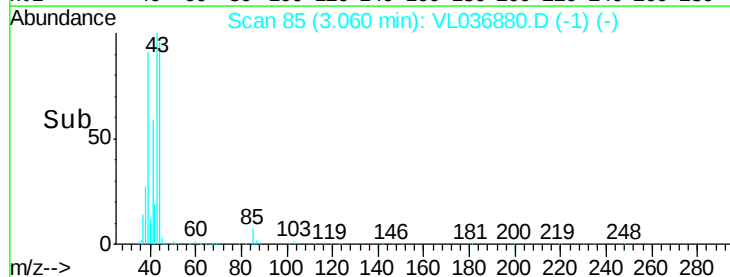
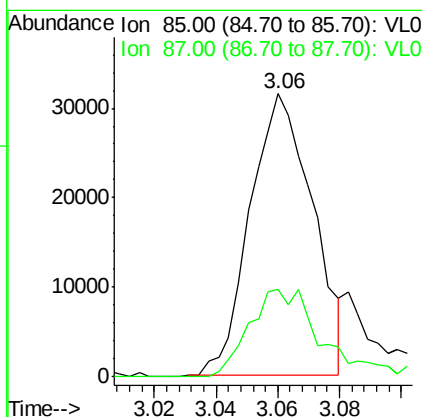
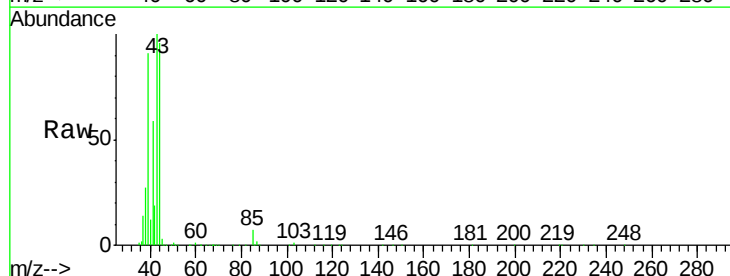
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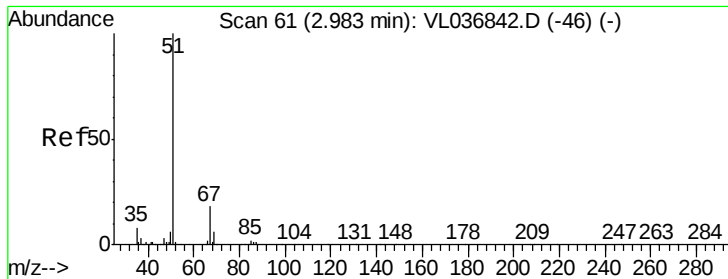


#2

Dichlorodifluoromethane
 Concen: 0.187 ppbv
 RT: 3.06 min Scan# 85
 Delta R.T. 0.02 min
 Lab File: VL036880.D
 Acq: 28 Apr 2021 15:23

Tgt Ion: 85 Resp: 44305
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.312 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036880.D

Acq: 28 Apr 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 51 Resp: 85321

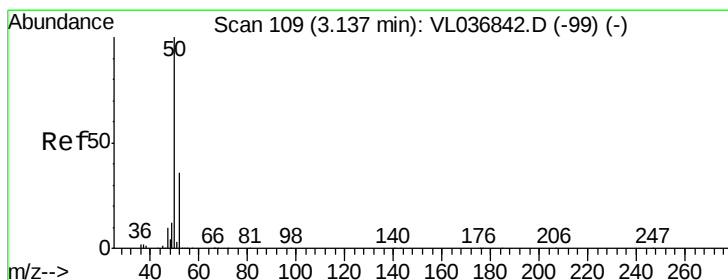
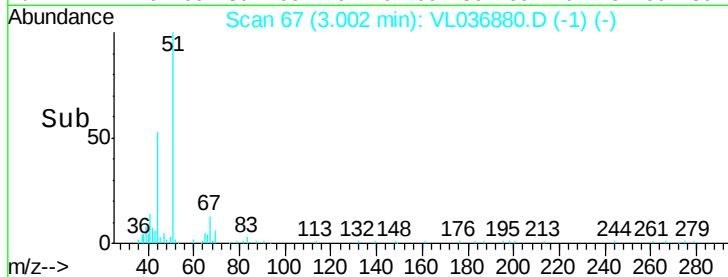
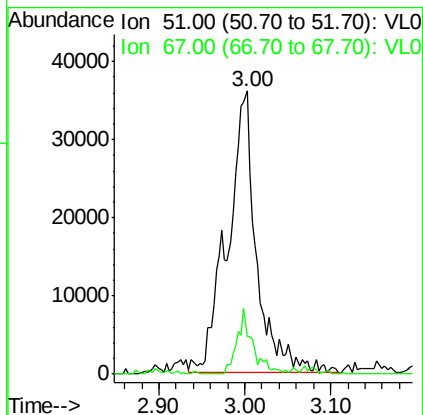
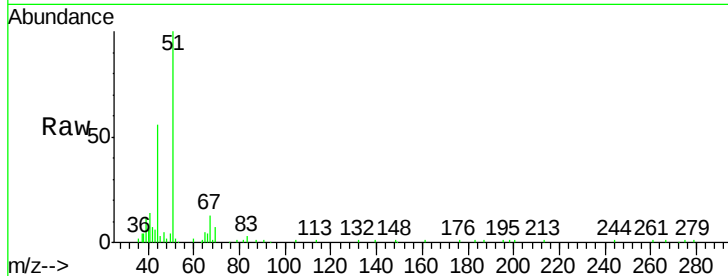
Ion Ratio Lower Upper

51 100

67 12.6 14.8 22.2#

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#4

Chloromethane

Concen: 0.573 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL036880.D

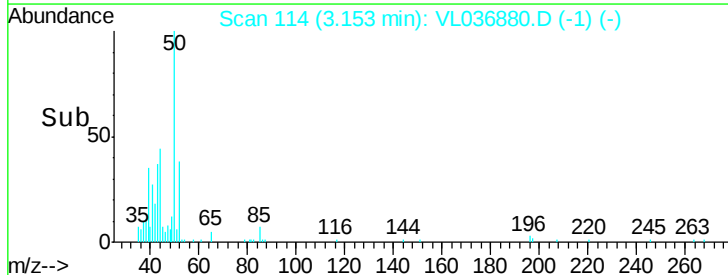
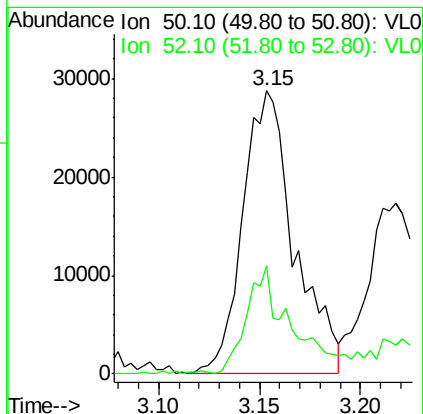
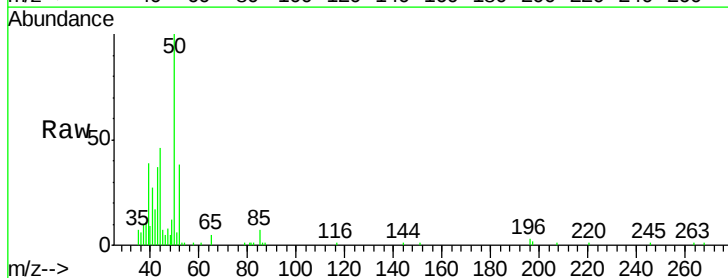
Acq: 28 Apr 2021 15:23

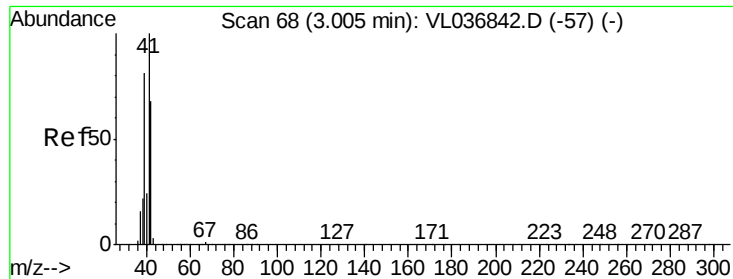
Tgt Ion: 50 Resp: 51560

Ion Ratio Lower Upper

50 100

52 37.4 28.5 42.7





#9

Propene

Concen: 30.214 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. 0.03 min

Lab File: VL036880.D

Acq: 28 Apr 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 41 Resp: 2520658

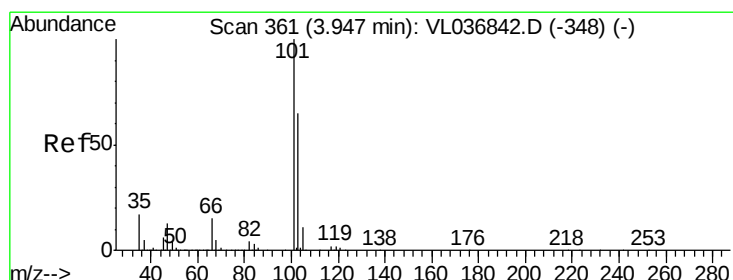
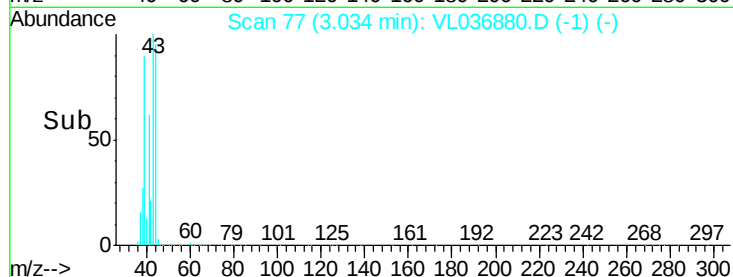
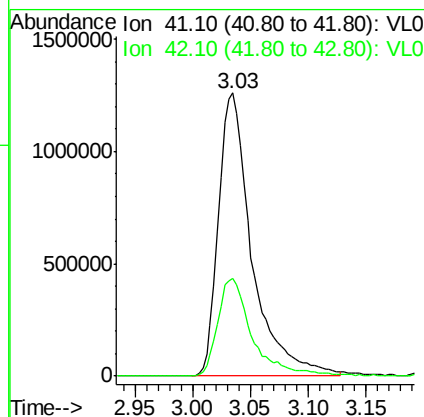
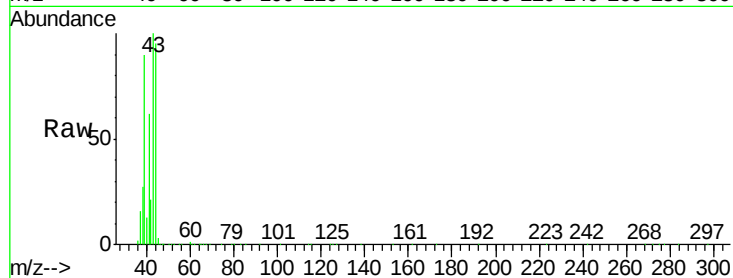
Ion Ratio Lower Upper

41 100

42 29.0 56.0 84.0#

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#11

Trichlorofluoromethane

Concen: 0.191 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL036880.D

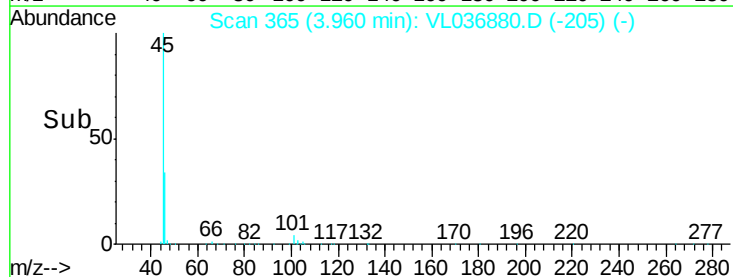
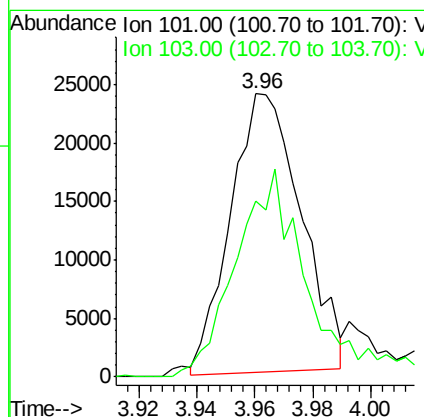
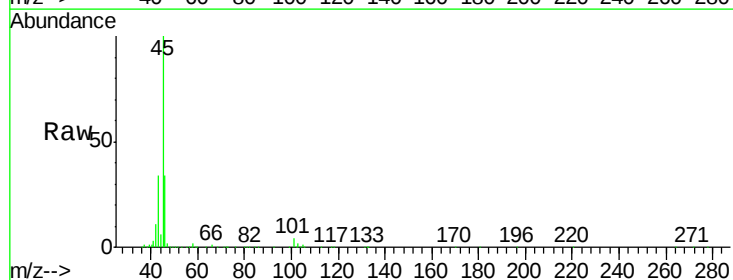
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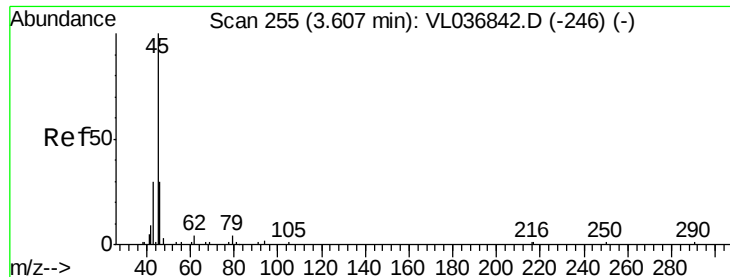
Tgt Ion: 101 Resp: 40380

Ion Ratio Lower Upper

101 100

103 60.4 51.6 77.4





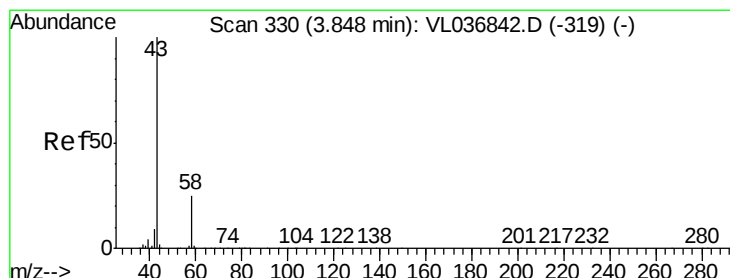
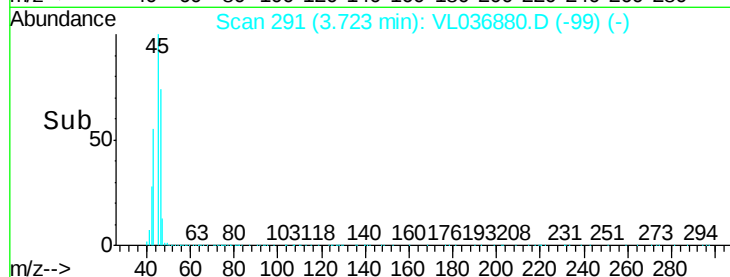
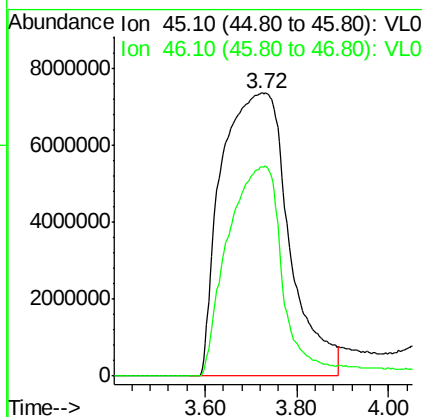
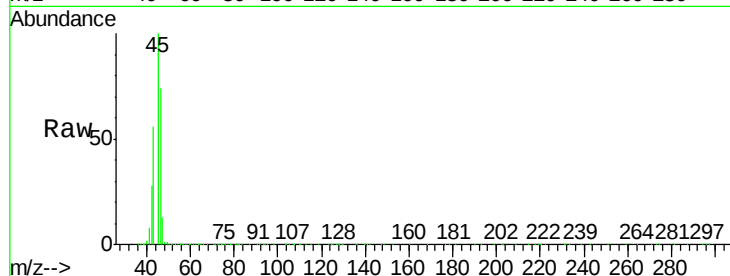
#13
Ethanol
Concen: 7071.469 ppbv m
RT: 3.72 min Scan# 291
Delta R.T. 0.12 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 45 Resp: 75234302
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.4#

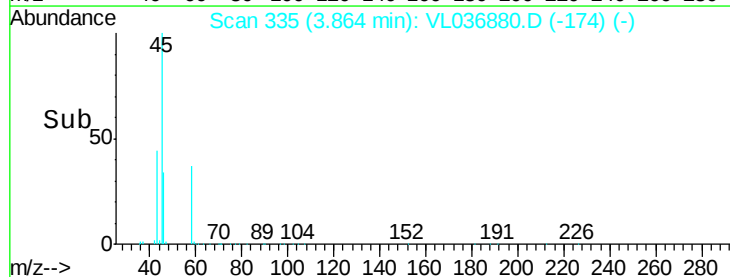
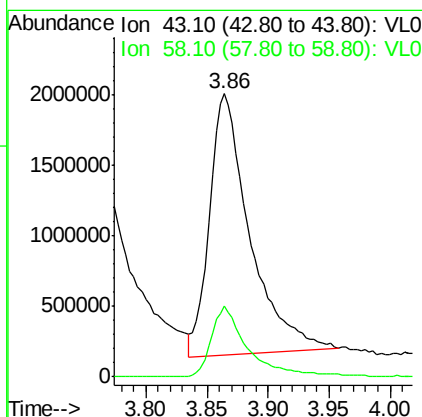
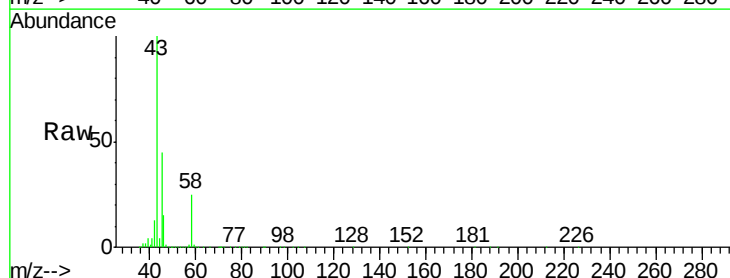
Manual Integrations
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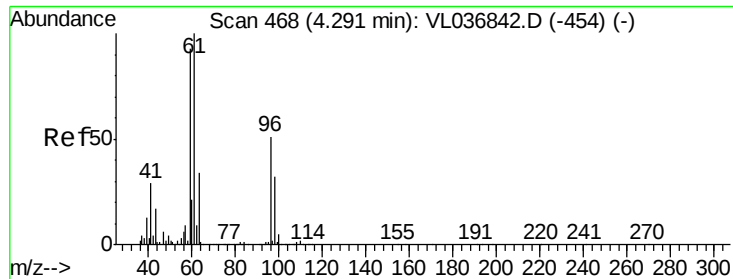
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#15
Acetone
Concen: 30.215 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Tgt Ion: 43 Resp: 4280378
Ion Ratio Lower Upper
43 100
58 25.4 21.7 32.5





#17

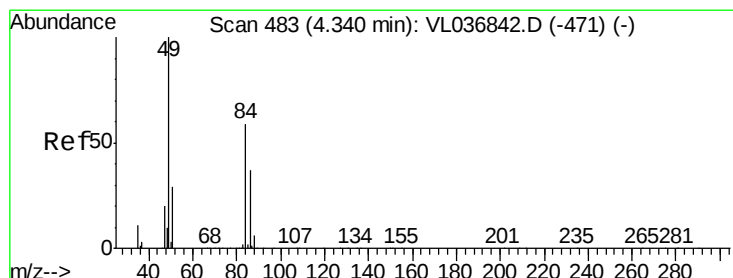
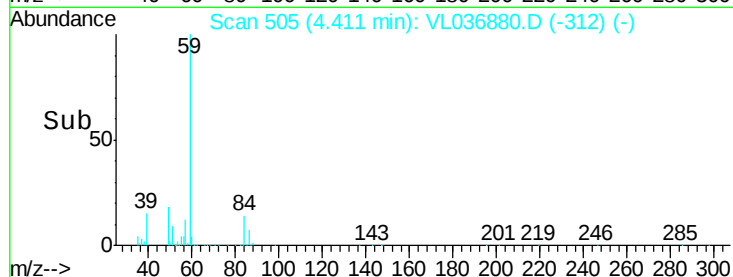
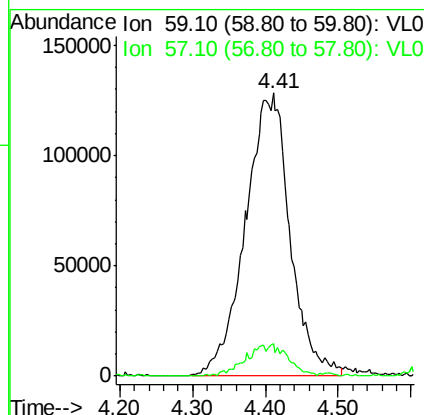
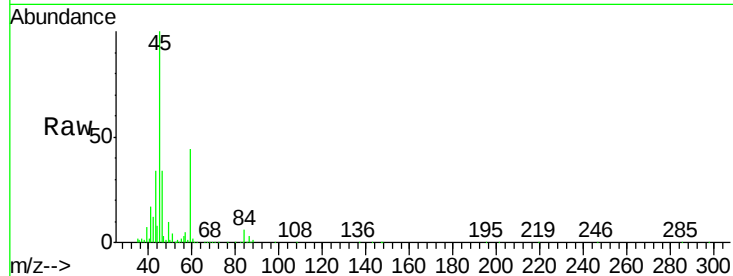
tert-Butyl alcohol
 Concen: 4.748 ppbv
 RT: 4.41 min Scan# 505
 Delta R.T. 0.12 min
 Lab File: VL036880.D
 Acq: 28 Apr 2021 15:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

Manual Integrations
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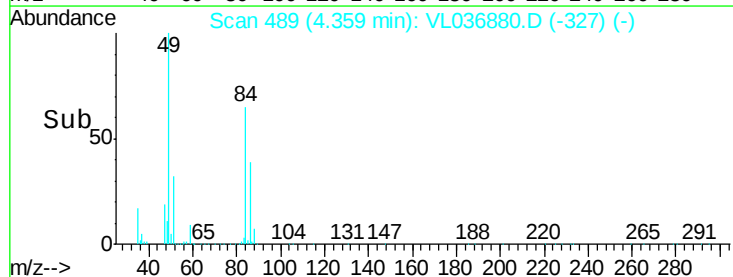
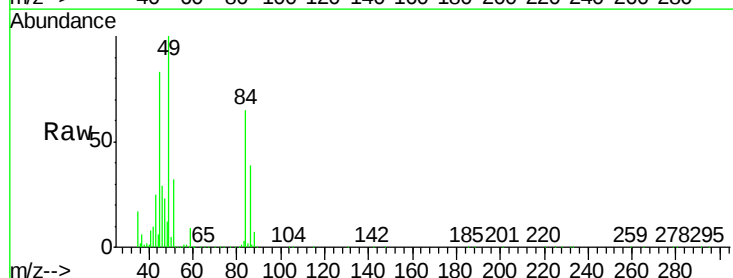
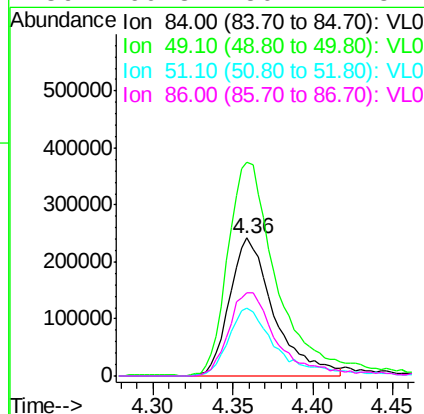
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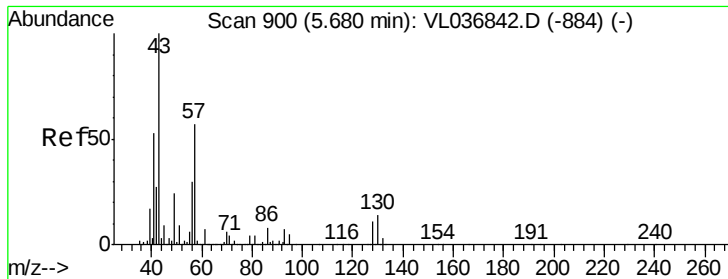


#20

Methylene Chloride
 Concen: 6.787 ppbv
 RT: 4.36 min Scan# 489
 Delta R.T. 0.02 min
 Lab File: VL036880.D
 Acq: 28 Apr 2021 15:23

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.4	135.4	203.0
51	49.2	39.3	58.9
86	60.3	50.2	75.2





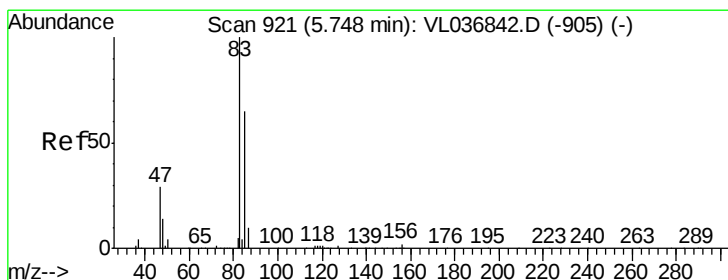
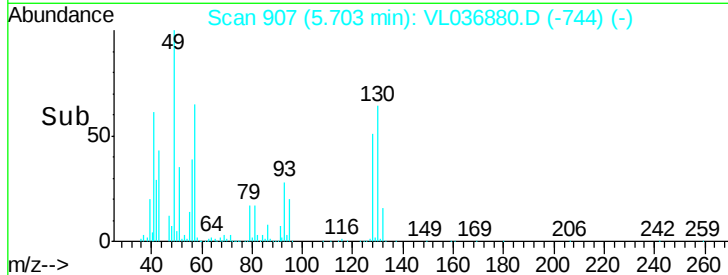
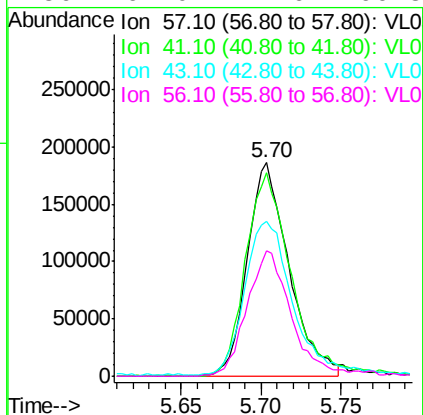
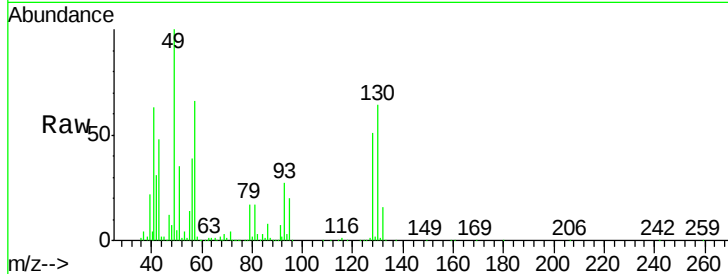
#26
Hexane
Concen: 2.053 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	106.7	77.7	116.5	
43	86.2	180.5	270.7#	
56	64.0	44.6	66.8	

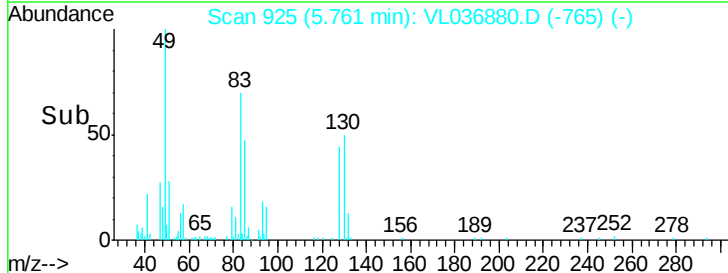
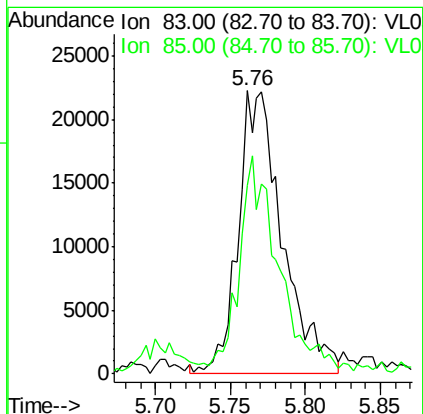
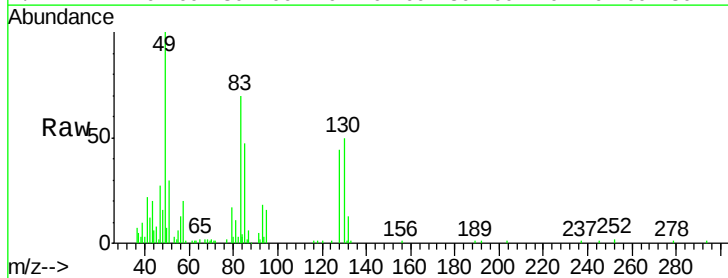
Manual Integrations
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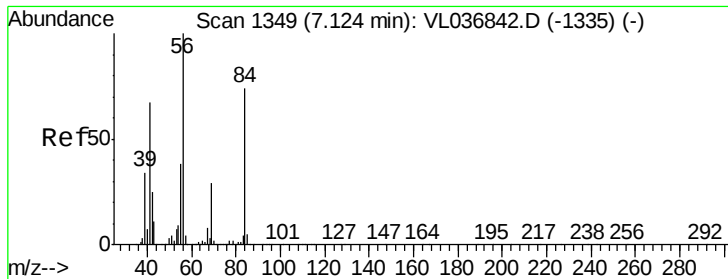
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#29
Chloroform
Concen: 0.181 ppbv m
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Tgt Ion	Ion	Ratio	Lower	Upper
83	100			
85	66.6	52.2	78.4	





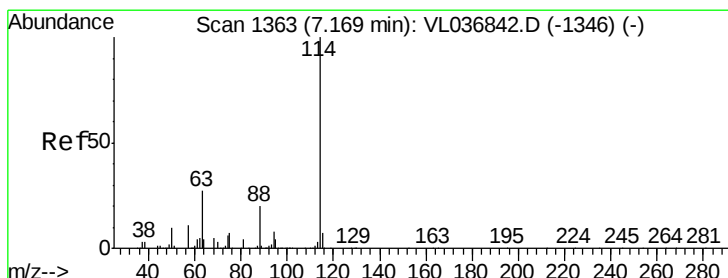
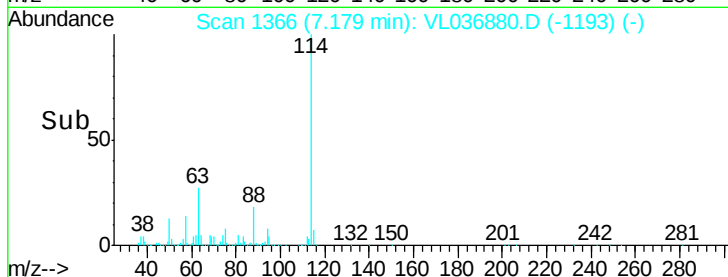
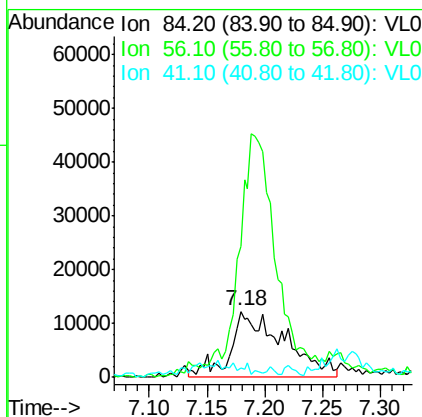
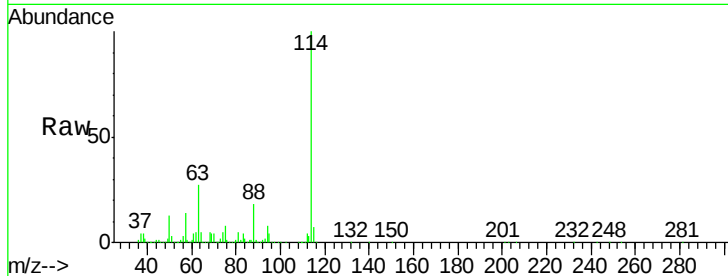
#30
Cvclohexane
Concen: 0.310 ppbv m
RT: 7.18 min Scan# 1366
Delta R.T. 0.05 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.8	173.6#
41	0.0	74.6	111.8#

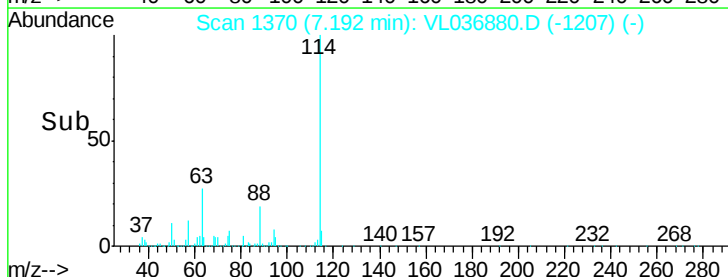
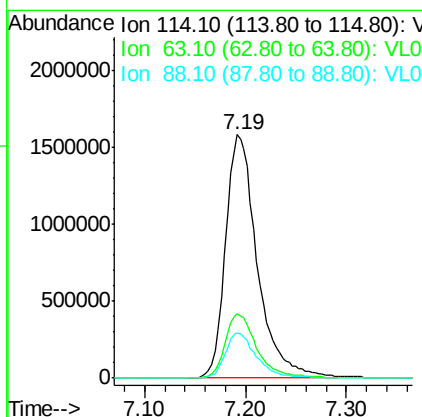
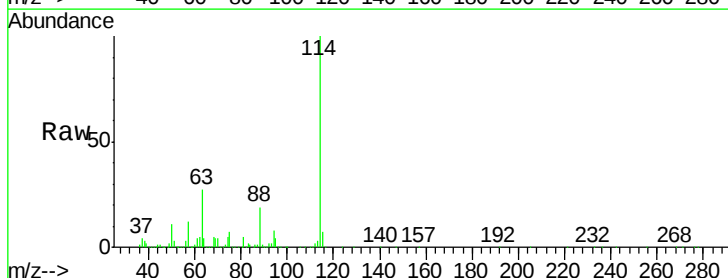
Manual Integrations
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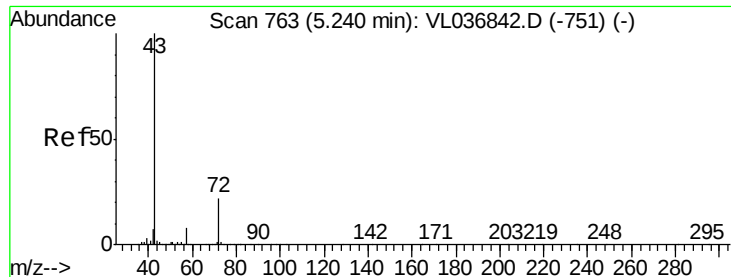
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.02 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.9	32.9
88	18.5	15.1	22.7





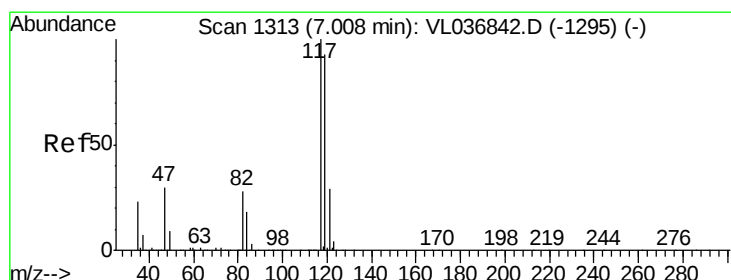
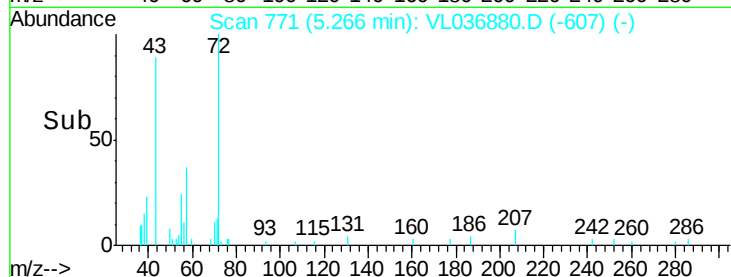
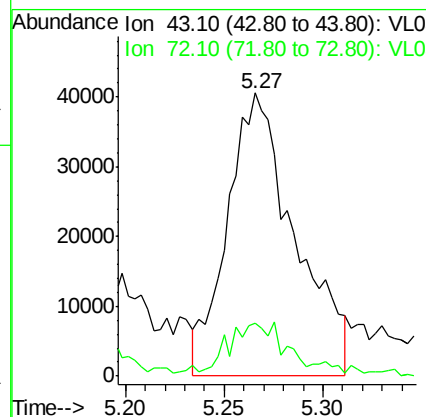
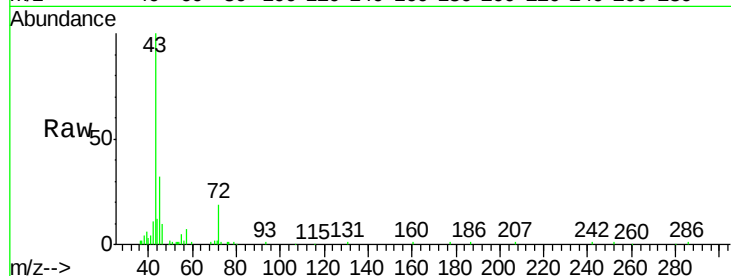
#34
2-Butanone
Concen: 0.635 ppbv m
RT: 5.27 min Scan# 771
Delta R.T. 0.03 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	43	Resp	96888
Ion Ratio	100	Lower	Upper
72	0.0	17.6	26.4#

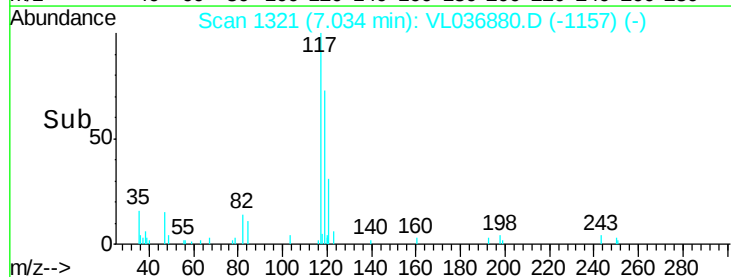
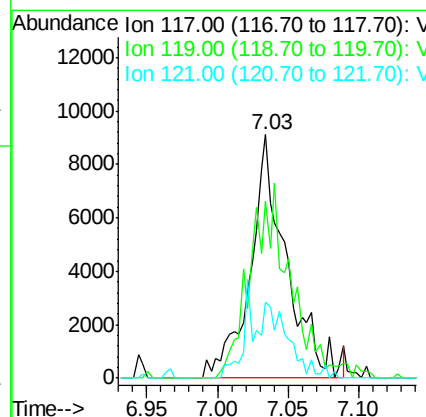
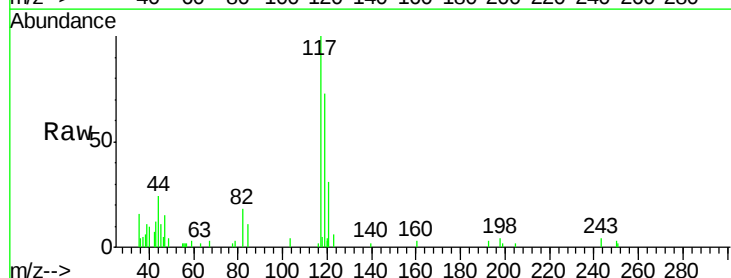
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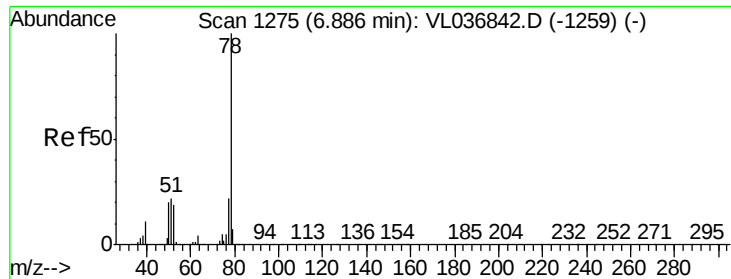
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. 0.03 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Tgt Ion	117	Resp	16260
Ion Ratio	100	Lower	Upper
119	72.6	74.6	111.8#
121	31.0	23.3	34.9





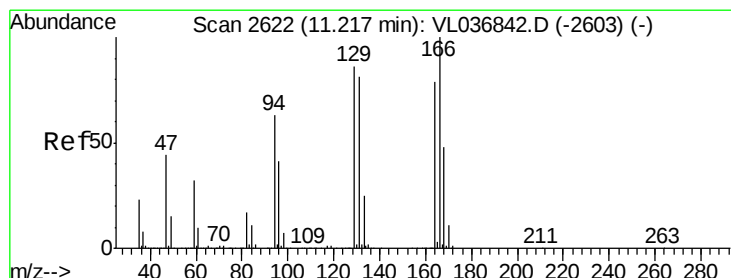
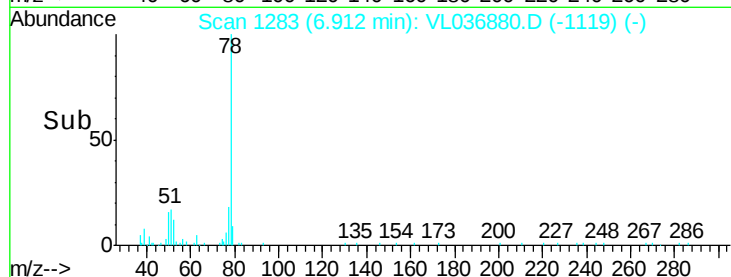
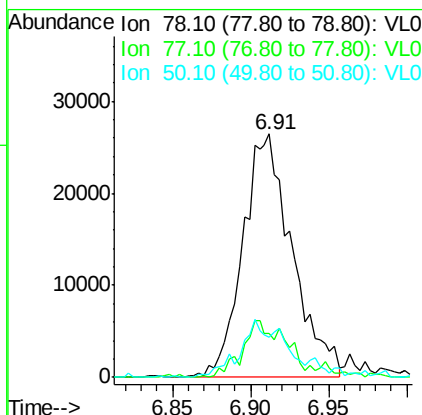
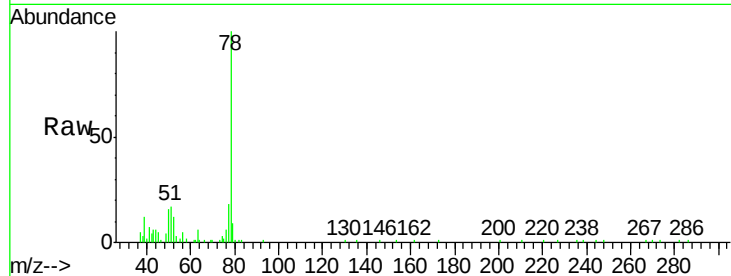
#36
Benzene
Concen: 0.198 ppbv m
RT: 6.91 min Scan# 1283
Delta R.T. 0.03 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.2	17.6	26.4
50	16.3	16.3	24.5

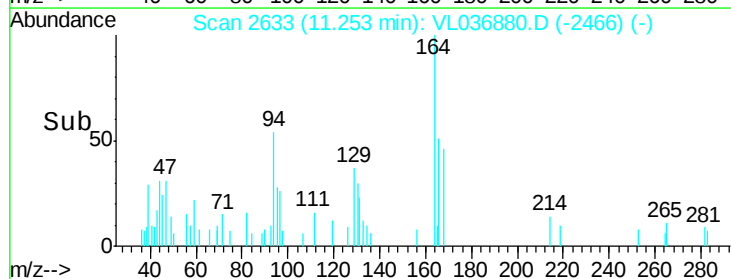
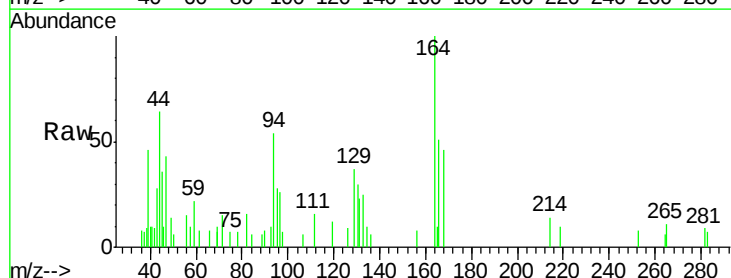
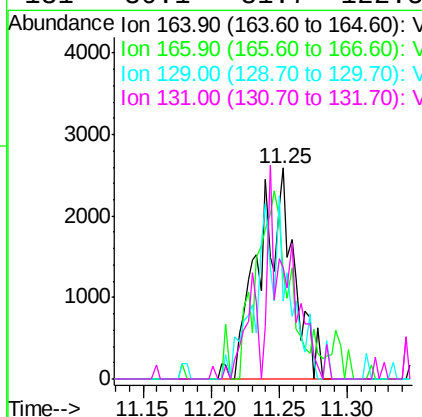
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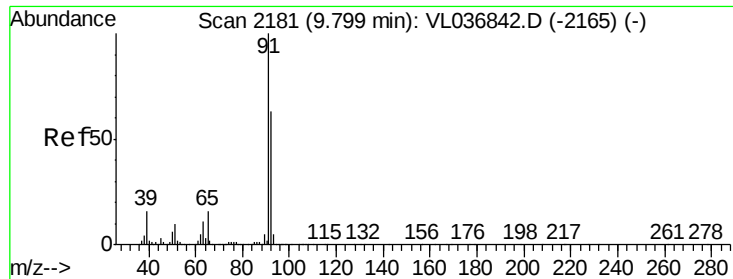
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#52
Tetrachloroethene
Concen: 0.046 ppbv m
RT: 11.25 min Scan# 2633
Delta R.T. 0.04 min
Lab File: VL036880.D
Acq: 28 Apr 2021 15:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	50.5	100.9	151.3#
129	37.2	87.0	130.4#
131	30.1	81.7	122.5#





#53

Toluene

Concen: 1.555 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036880.D

Acq: 28 Apr 2021 15:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 477394

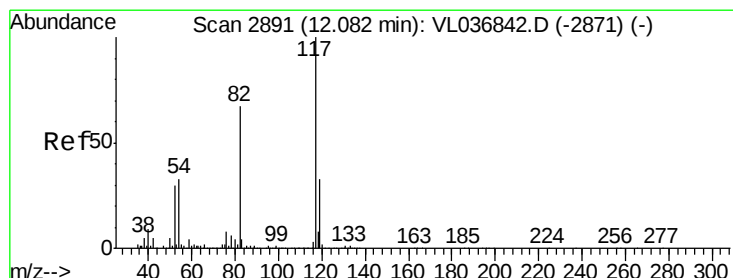
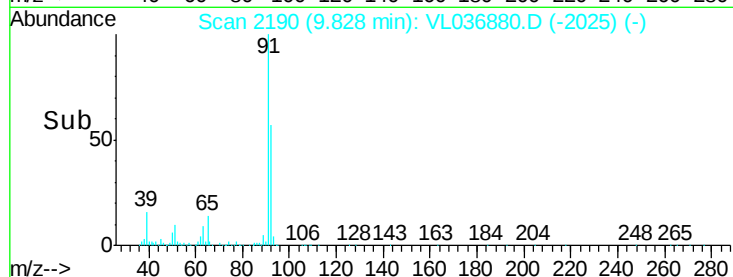
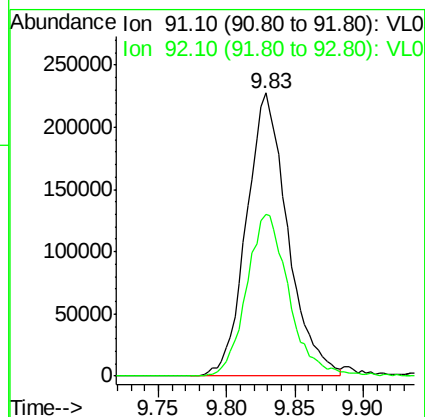
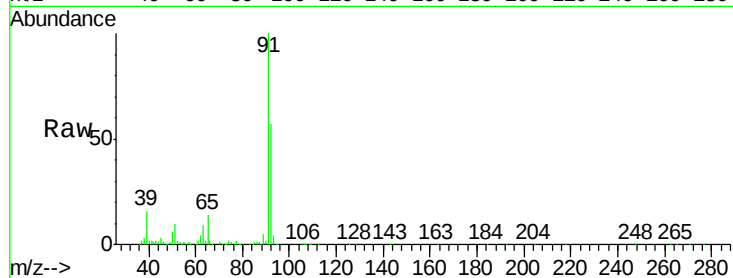
Ion Ratio Lower Upper

91 100

92 59.4 49.0 73.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036880.D

Acq: 28 Apr 2021 15:23

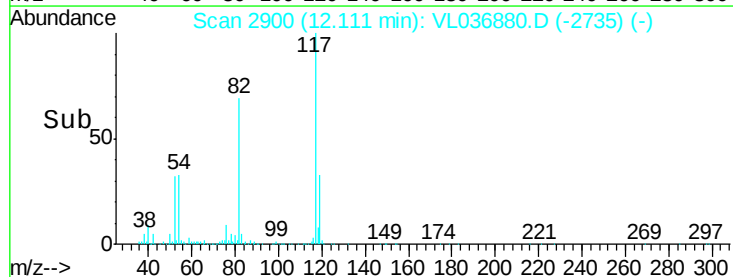
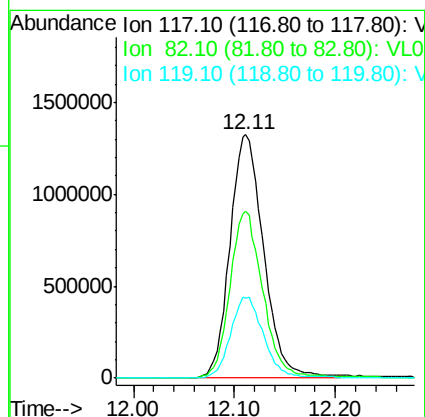
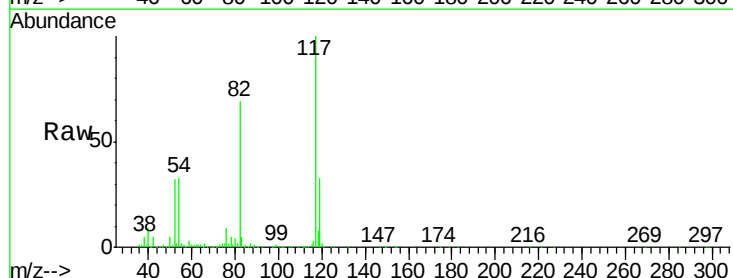
Tgt Ion: 117 Resp: 3084020

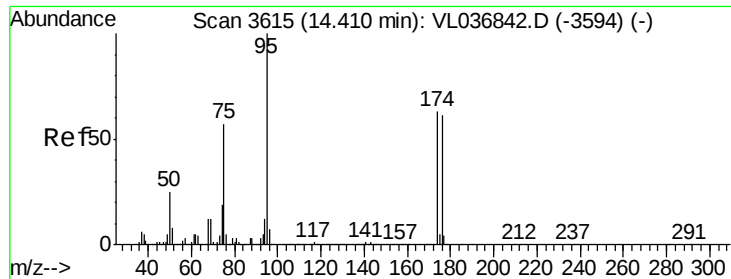
Ion Ratio Lower Upper

117 100

82 68.5 53.5 80.3

119 33.2 25.6 38.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.643 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. 0.03 min
 Lab File: VL036880.D
 Acq: 28 Apr 2021 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion: 95 Resp: 2387369
 Ion Ratio Lower Upper
 95 100
 174 65.7 52.2 78.2
 175 4.5 4.0 6.0

Manual Integrations
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