

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036609.D
 Acq On : 31 Mar 2021 19:48
 Operator : SY/AP
 Sample : M1808-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AASG2

Manual Integrations
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 4/2/2021 6:52:56 PM

Quant Time: Apr 02 15:21:19 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	1511623	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3455585	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3055154	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2244106	9.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	49101	0.199	ppbv	99
3) Chlorodifluoromethane	2.99	51	64284	0.228	ppbv	94
4) Chloromethane	3.15	50	53317	0.534	ppbv	92
9) Propene	3.02	41	73270m	0.814	ppbv	
11) Trichlorofluoromethane	3.96	101	43643	0.174	ppbv	95
13) Ethanol	3.61	45	1045716m	97.531	ppbv	
15) Acetone	3.86	43	795138m	5.344	ppbv	
19) Isopropyl Alcohol	3.99	45	82383m	1.007	ppbv	
20) Methylene Chloride	4.35	84	2006040	28.798	ppbv	90
26) Hexane	5.69	57	2259585	13.766	ppbv #	47
30) Cyclohexane	7.19	84	33069m	0.248	ppbv	
34) 2-Butanone	5.26	43	43950	0.261	ppbv #	81
35) Carbon Tetrachloride	7.03	117	15331m	0.058	ppbv	
36) Benzene	6.90	78	51600	0.162	ppbv	97
44) 2,2,4-Trimethylpentane	7.88	57	55327m	0.099	ppbv	
53) Toluene	9.82	91	212810	0.627	ppbv	98
59) m/p-Xylene	12.97	91	62690m	0.162	ppbv	

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

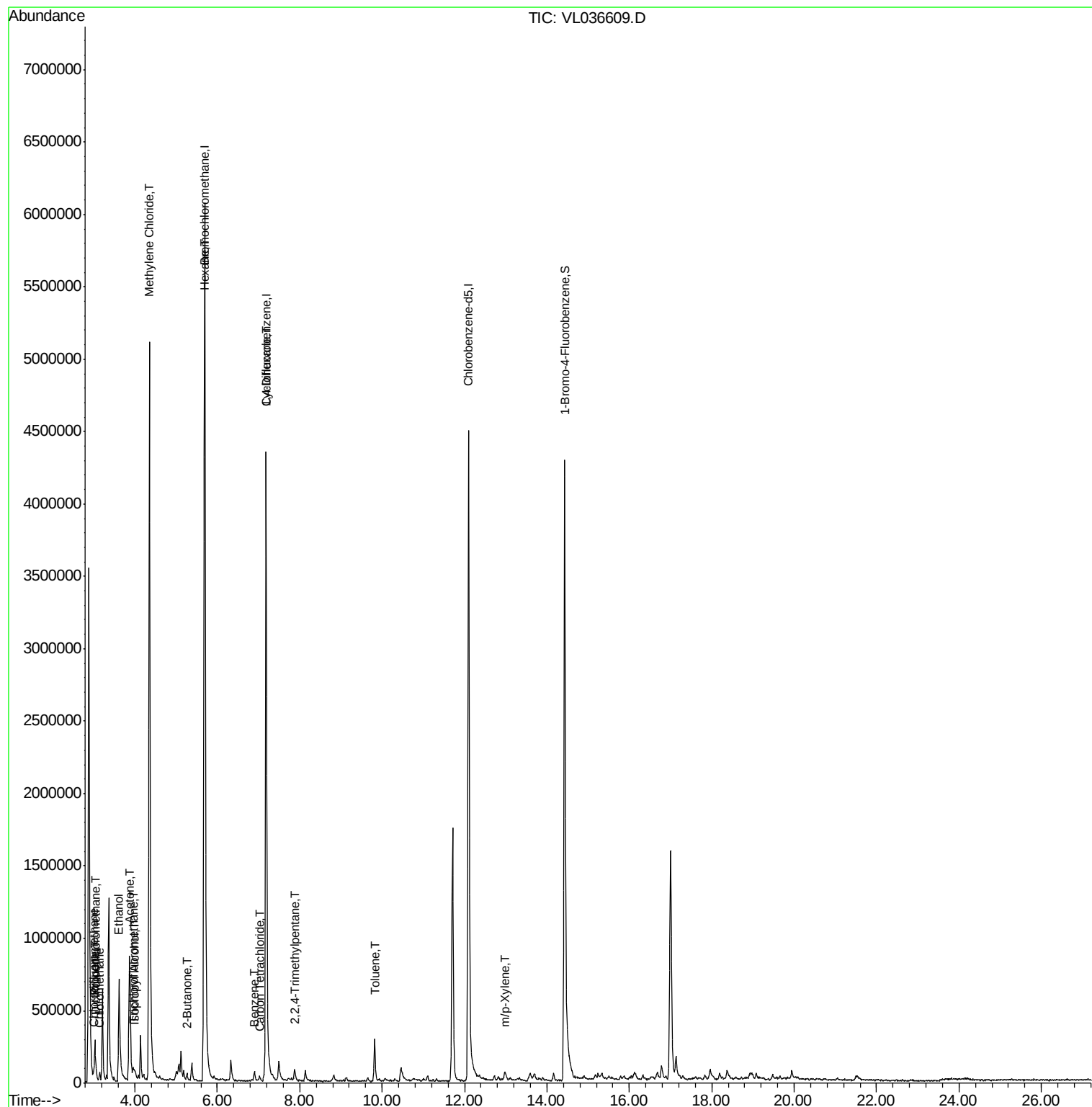
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036609.D
Acq On : 31 Mar 2021 19:48
Operator : SY/AP
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Misc : 400mL/MSVOA L
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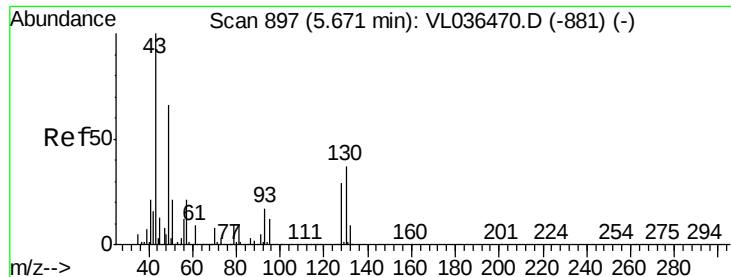
Instrument :
MSVOA_L
ClientSampleId :
AASG2

Manual Integrations
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Quant Time: Apr 02 15:21:19 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: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

AASG2

Tot Ion: 49 Resp: 1511623

Ion Ratio Lower Upper

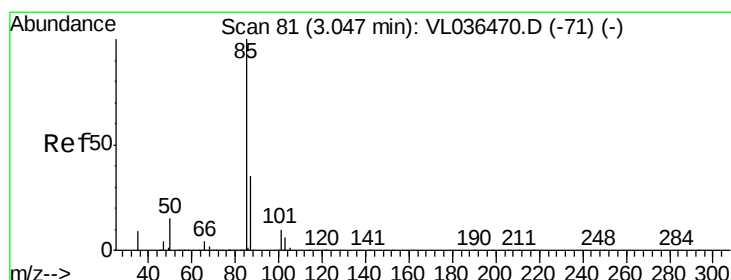
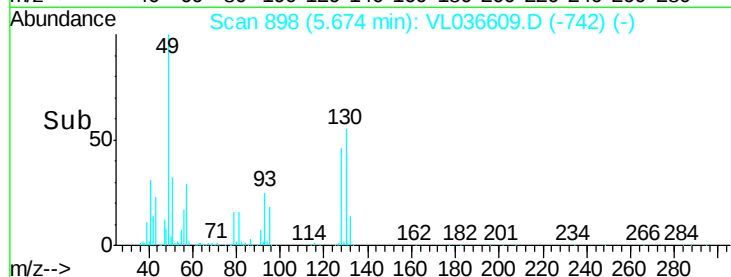
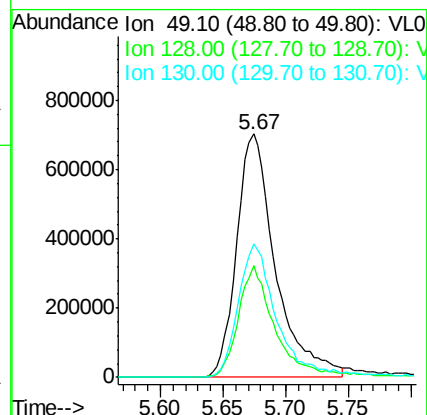
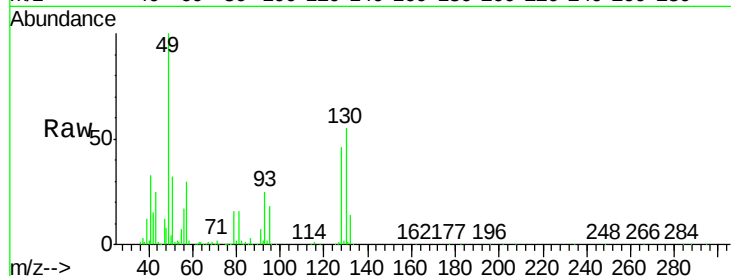
49 100

128 44.5 23.5 70.6

130 56.8 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.199 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036609.D

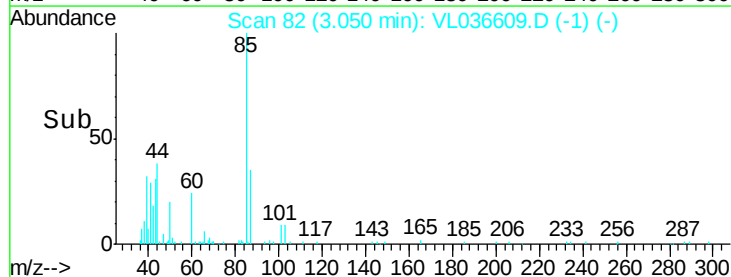
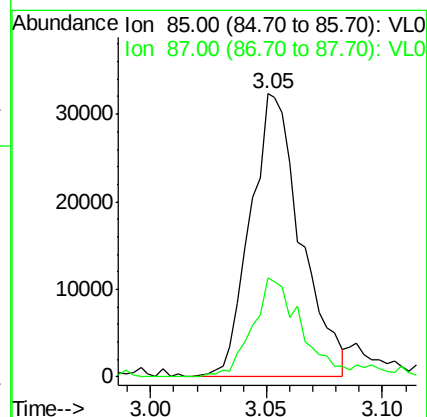
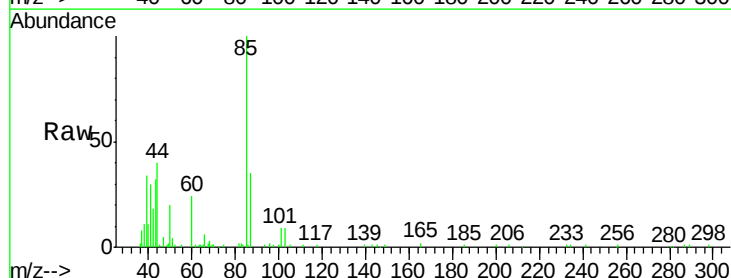
Acq: 31 Mar 2021 19:48

Tgt Ion: 85 Resp: 49101

Ion Ratio Lower Upper

85 100

87 35.1 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.228 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

AASG2

Tot Ion: 51 Resp: 64284

Ion Ratio Lower Upper

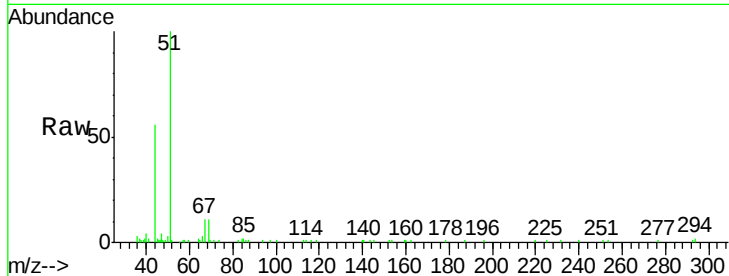
51 100

67 15.8 14.7 22.1

Manual Integrations
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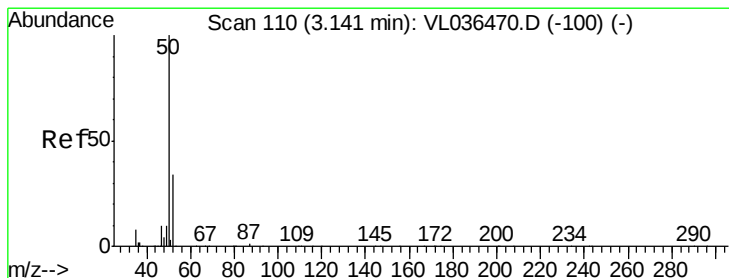
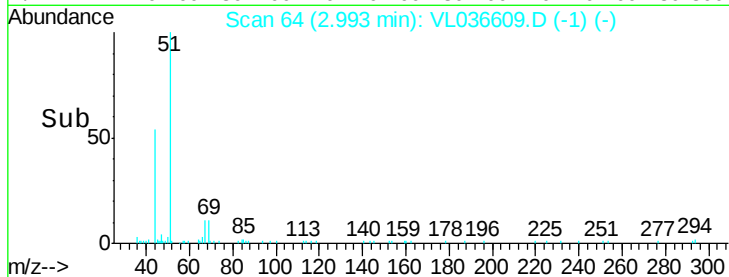
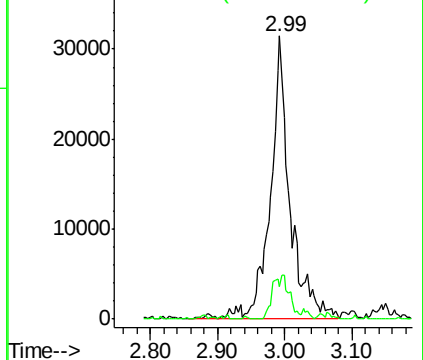
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.534 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036609.D

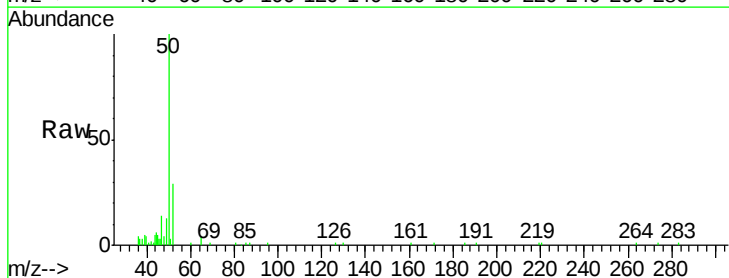
Acq: 31 Mar 2021 19:48

Tgt Ion: 50 Resp: 53317

Ion Ratio Lower Upper

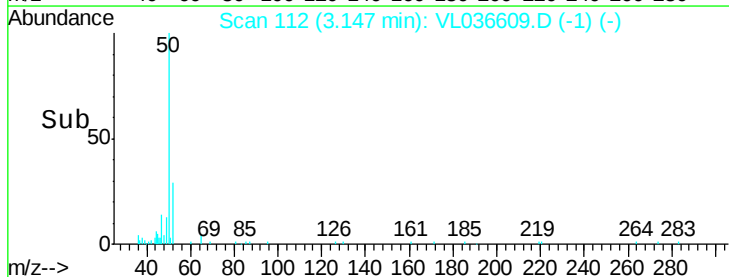
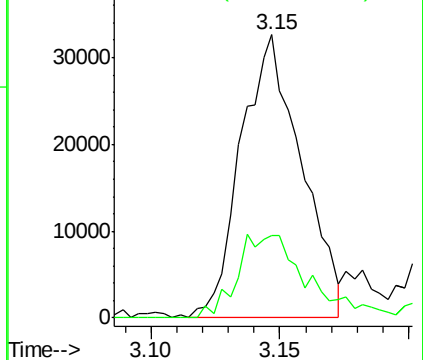
50 100

52 29.2 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.814 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

AASG2

Tot Ion: 41 Resp: 73270

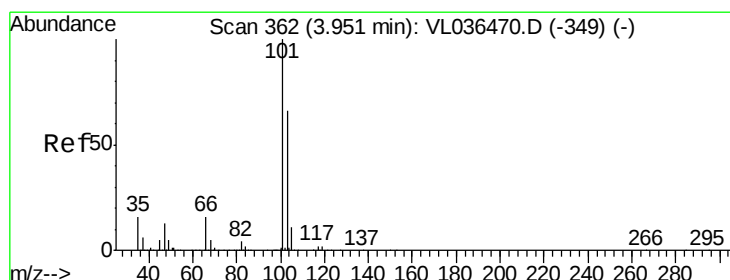
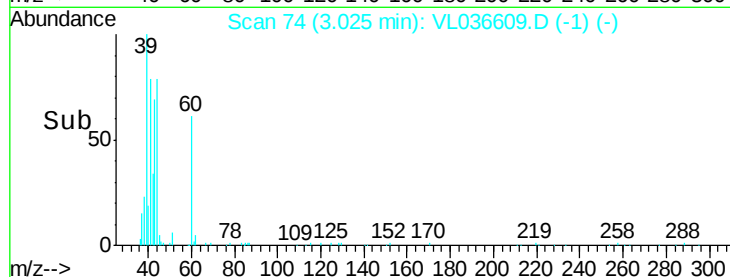
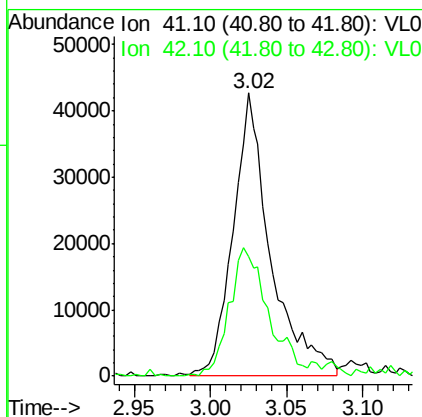
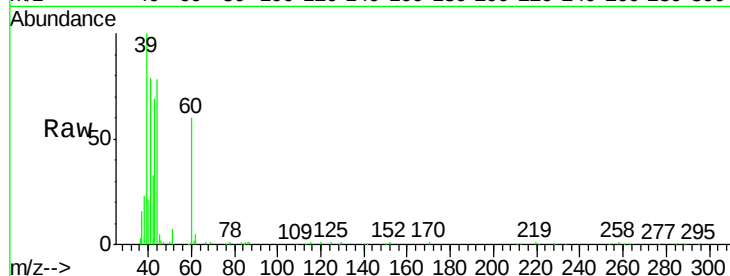
Ion Ratio Lower Upper

41 100

42 203.3 57.0 85.4#

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#11

Trichlorofluoromethane

Concen: 0.174 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL036609.D

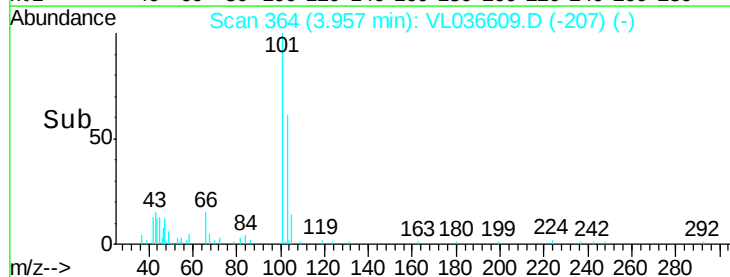
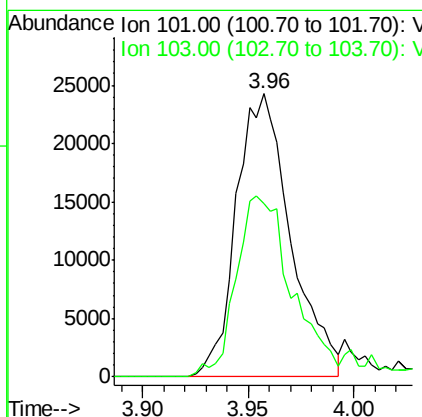
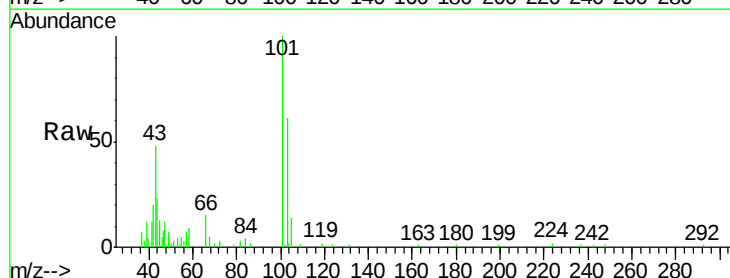
Acq: 31 Mar 2021 19:48

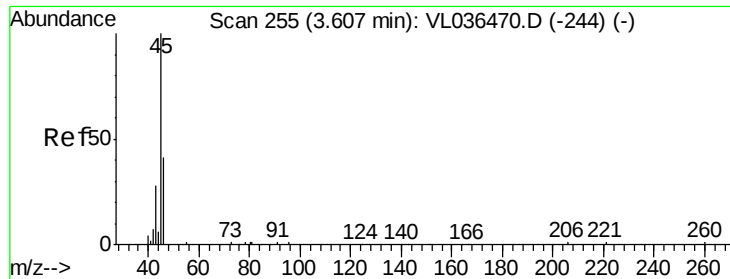
Tgt Ion: 101 Resp: 43643

Ion Ratio Lower Upper

101 100

103 61.3 52.5 78.7





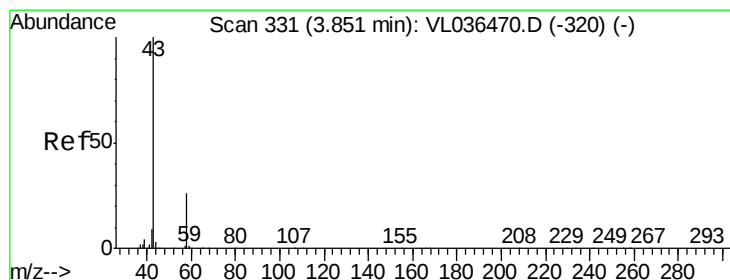
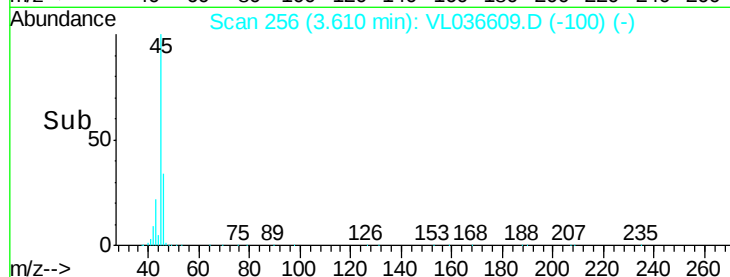
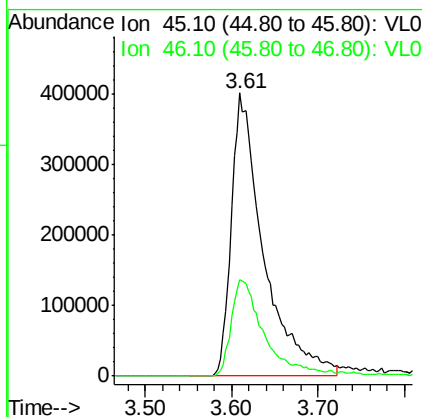
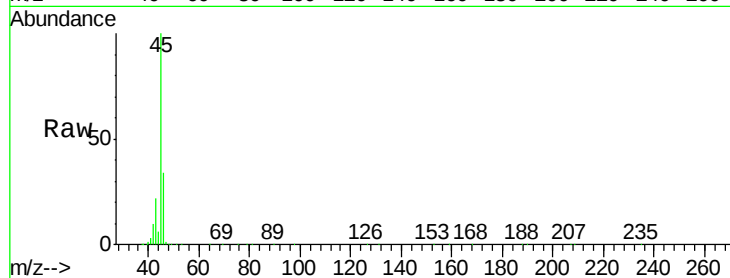
#13
Ethanol
Concen: 97.531 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
AASG2

Tot Ion: 45 Resp: 1045716
Ion Ratio Lower Upper
45 100
46 36.3 16.6 66.2

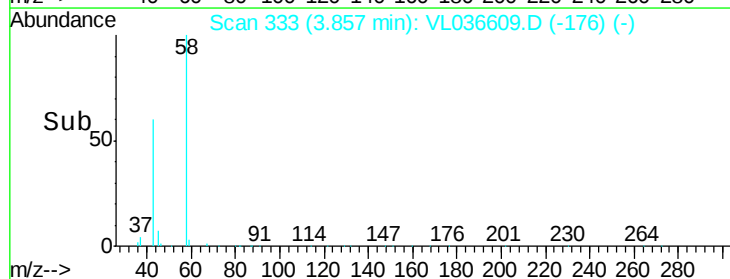
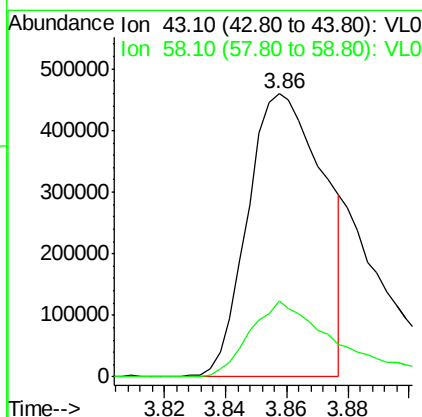
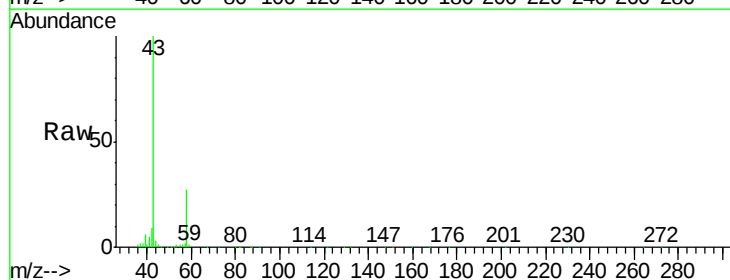
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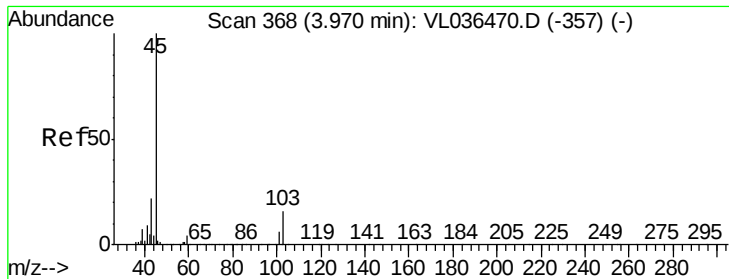
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#15
Acetone
Concen: 5.344 ppbv m
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 43 Resp: 795138
Ion Ratio Lower Upper
43 100
58 33.5 21.2 31.8#





#19

Isopropyl Alcohol

Concen: 1.007 ppbv m

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

AASG2

Tot Ion: 45 Resp: 82383

Ion Ratio Lower Upper

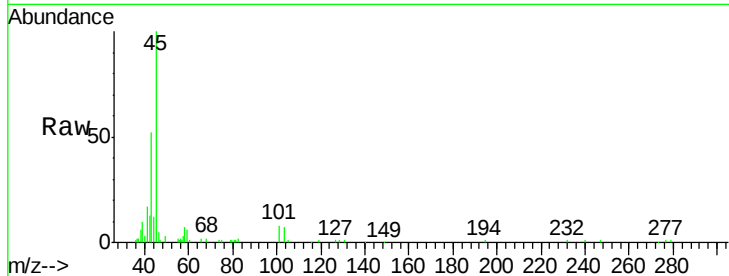
45 100

58 0.0 2.9 4.3#

Manual Integrations
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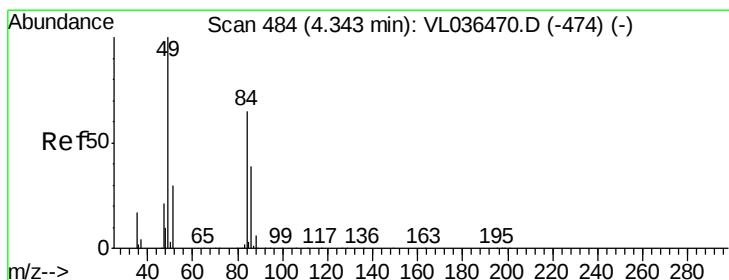
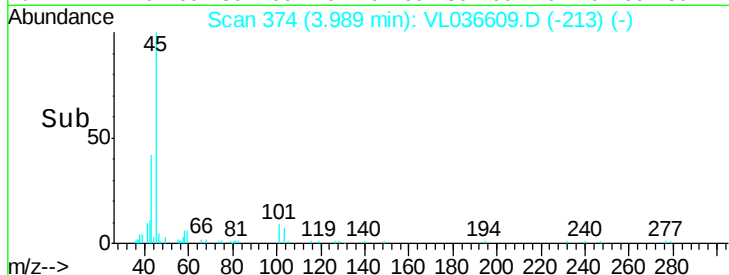
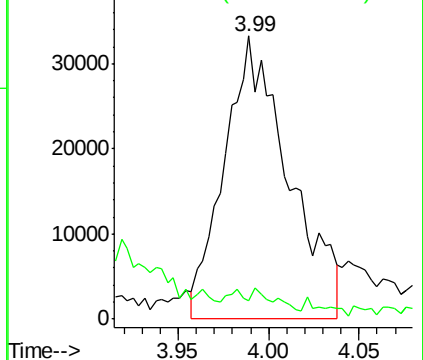
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 28.798 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Tgt Ion: 84 Resp: 2006040

Ion Ratio Lower Upper

84 100

49 167.1 122.9 184.3

51 52.4 36.9 55.3

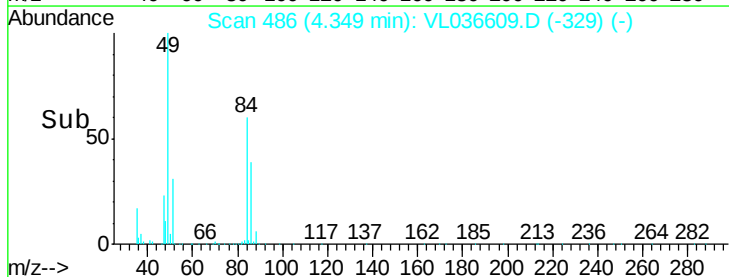
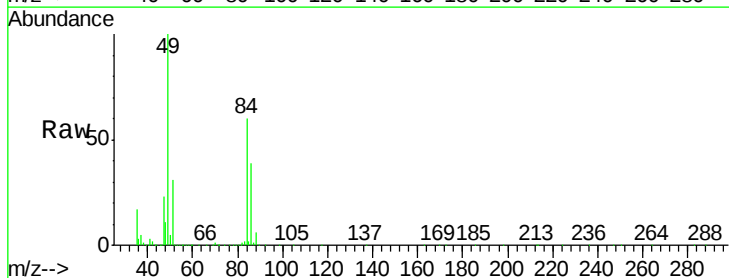
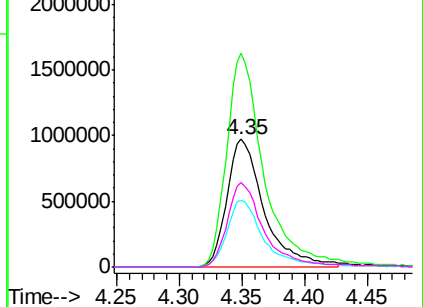
86 65.9 48.2 72.4

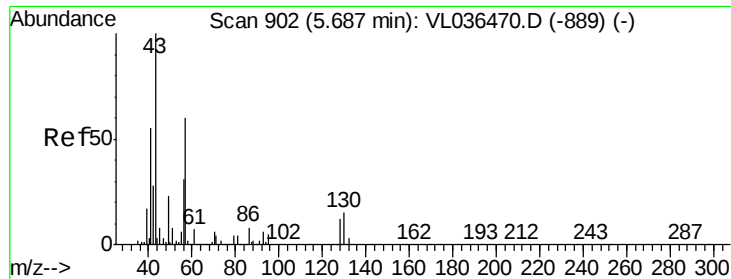
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





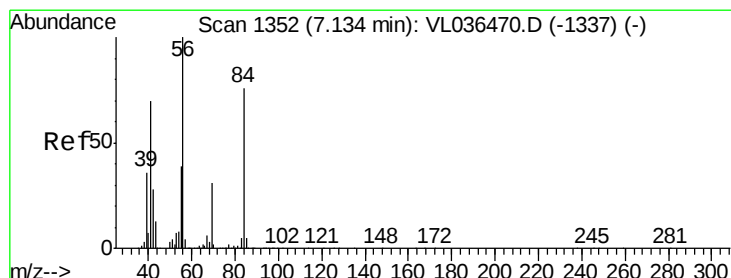
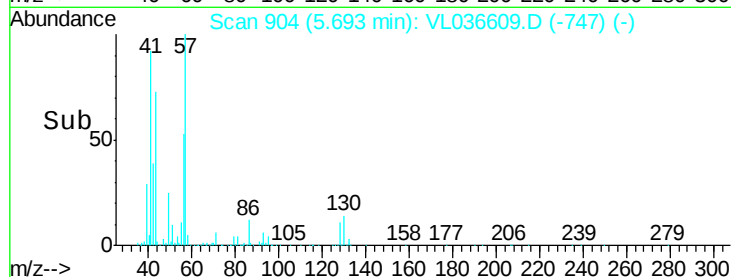
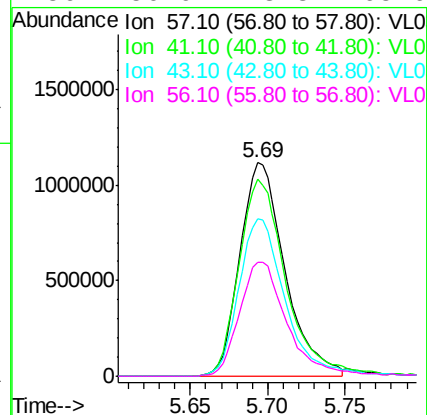
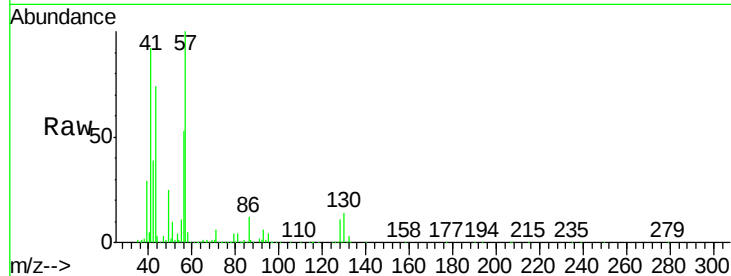
#26
Hexane
Concen: 13.766 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
AASG2

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.0	77.2	115.8
43	76.6	173.8	260.6#
56	56.9	43.8	65.6

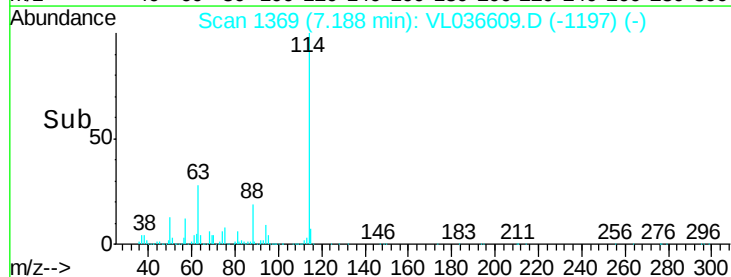
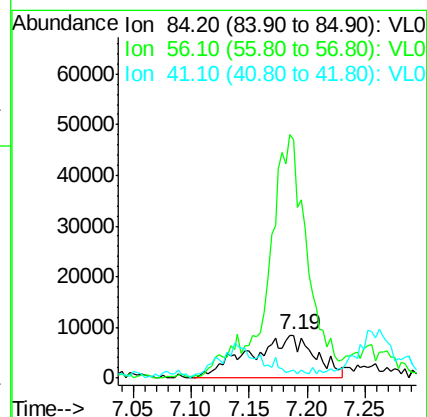
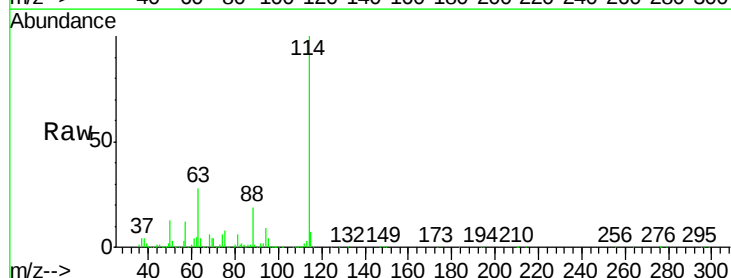
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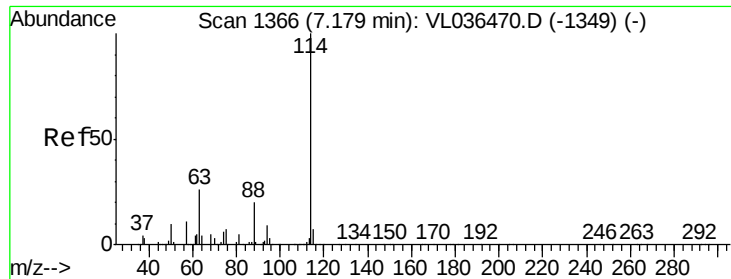
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#30
Cyclohexane
Concen: 0.248 ppbv m
RT: 7.19 min Scan# 1369
Delta R.T. 0.05 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	52.7	75.3	112.9#





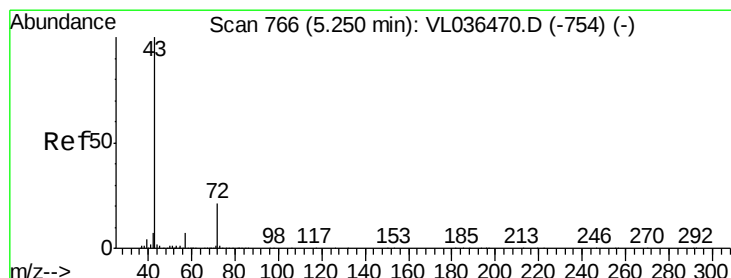
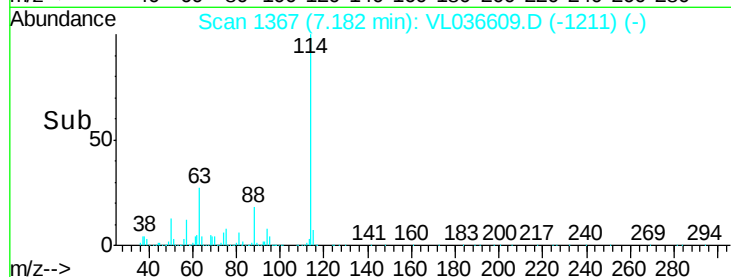
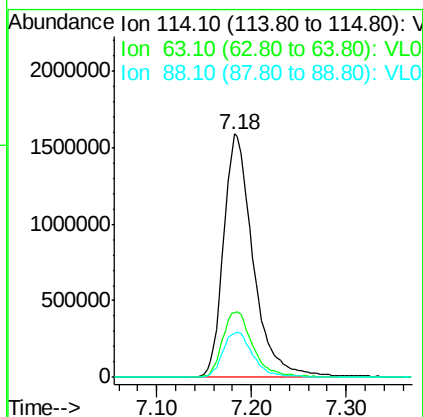
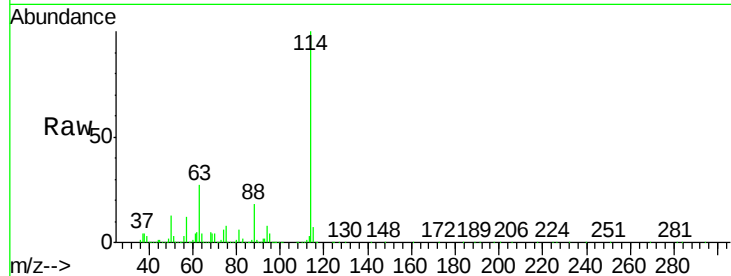
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 AASG2

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	19.3	15.4	23.0

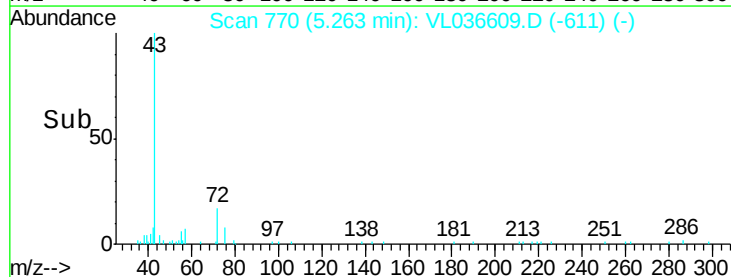
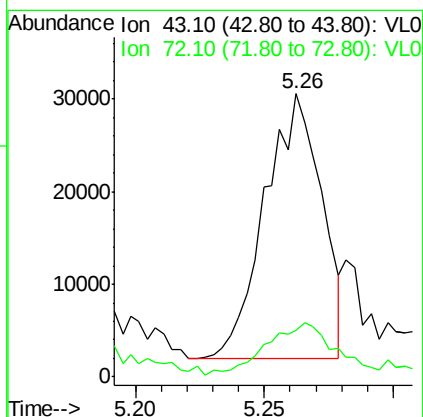
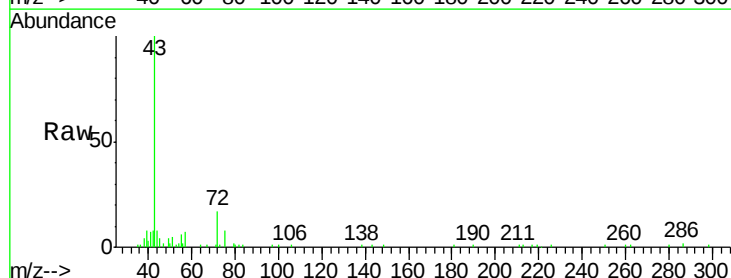
Manual Integrations
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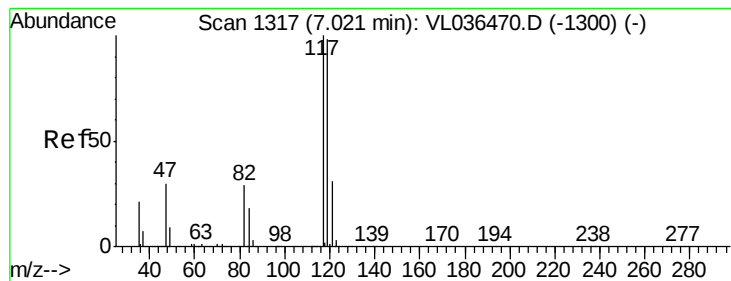
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#34
 2-Butanone
 Concen: 0.261 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.5	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.03 min Scan# 1320

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

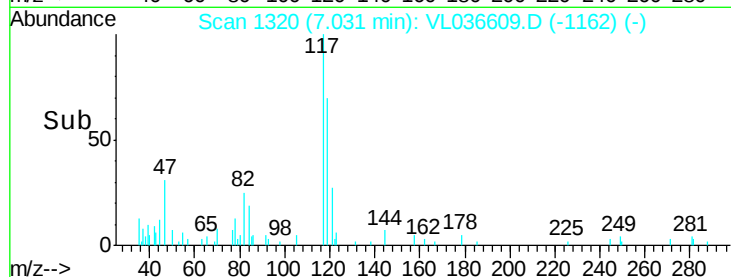
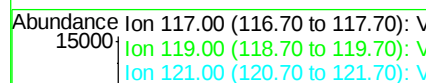
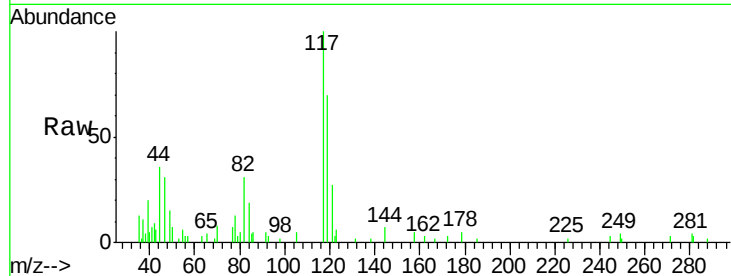
ClientSampled :

AASG2

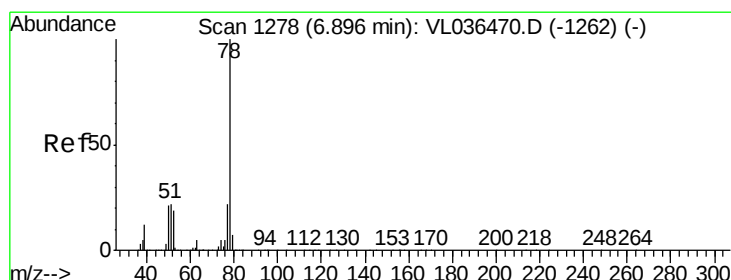
Tot Ion:	117	Resp:	15331
Ion Ratio	Lower	Upper	
117	100		
119	69.5	78.2	117.2#
121	26.9	24.5	36.7

Manual Integrations
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Time-->



#36

Benzene

Concen: 0.162 ppbv

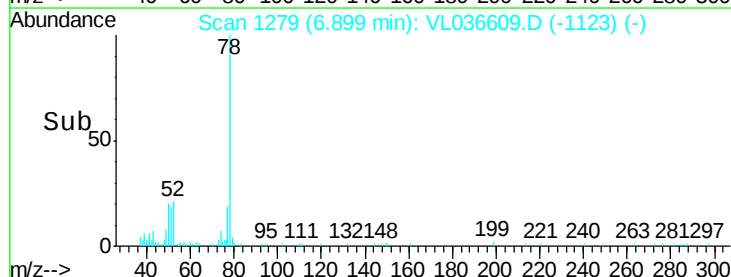
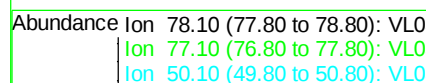
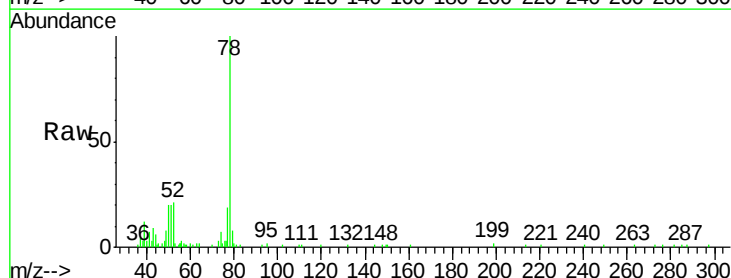
RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

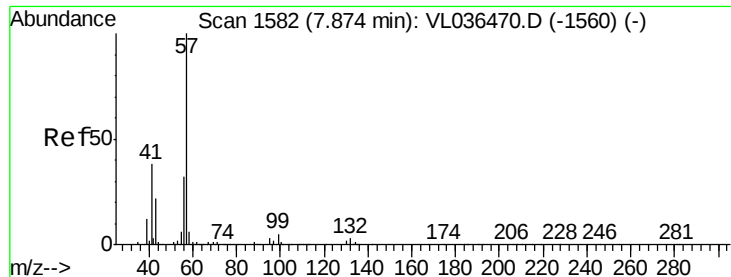
Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Tgt Ion:	78	Resp:	51600
Ion Ratio	Lower	Upper	
78	100		
77	19.6	18.0	27.0
50	20.5	16.5	24.7



Time-->



#44

2,2,4-Trimethylpentane

Concen: 0.099 ppbv m

RT: 7.88 min Scan# 1584

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

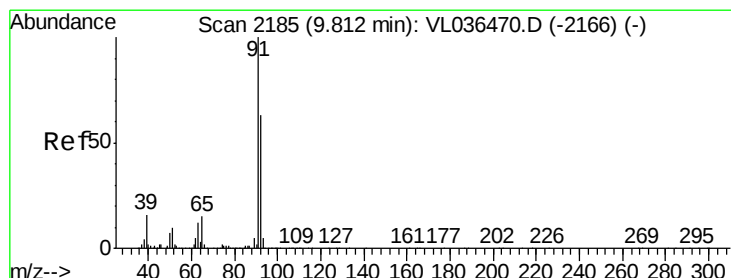
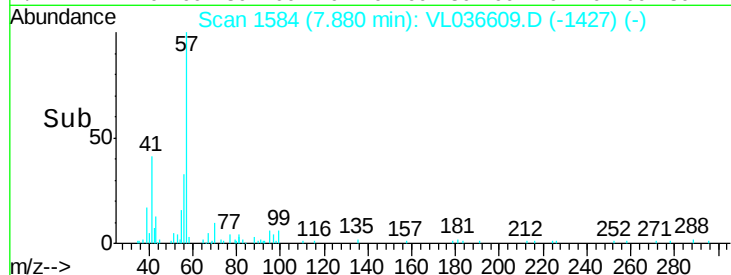
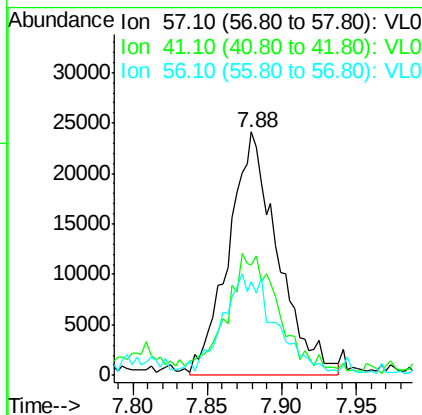
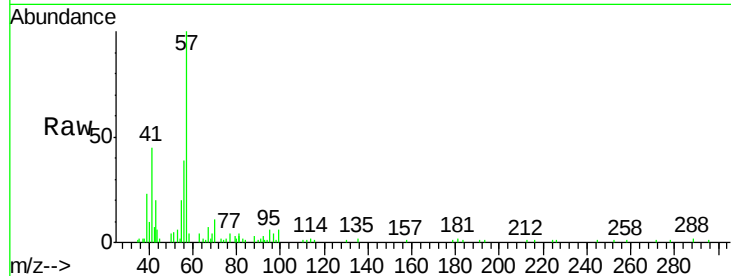
ClientSampleId :

AASG2

Tot Ion:	57	Resp:	55327
Ion Ratio	Lower	Upper	
57	100		
41	50.7	28.8	43.2#
56	46.1	26.1	39.1#

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#53

Toluene

Concen: 0.627 ppbv

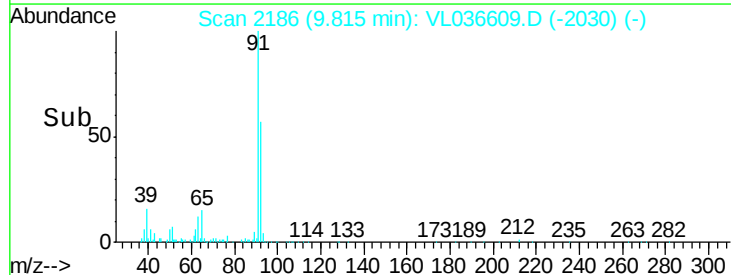
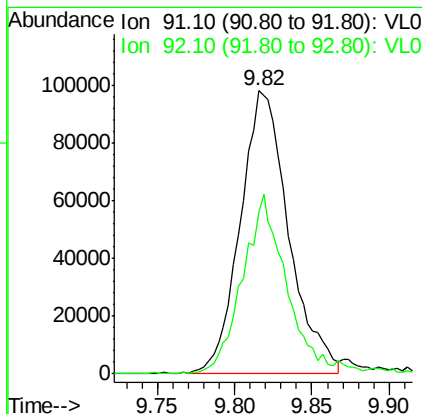
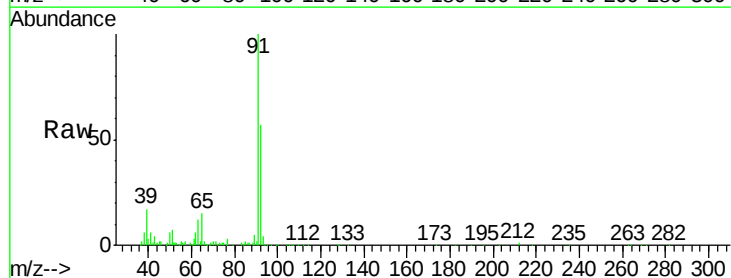
RT: 9.82 min Scan# 2186

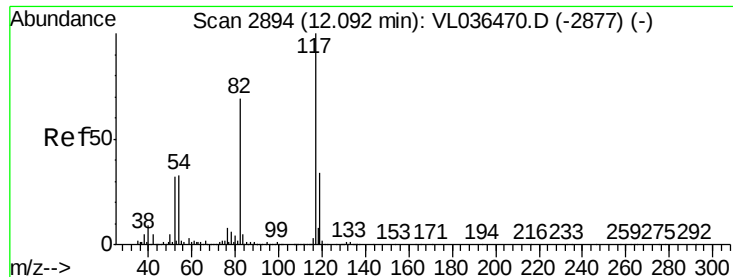
Delta R.T. 0.00 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Tgt Ion:	91	Resp:	212810
Ion Ratio	Lower	Upper	
91	100		
92	59.8	48.8	73.2





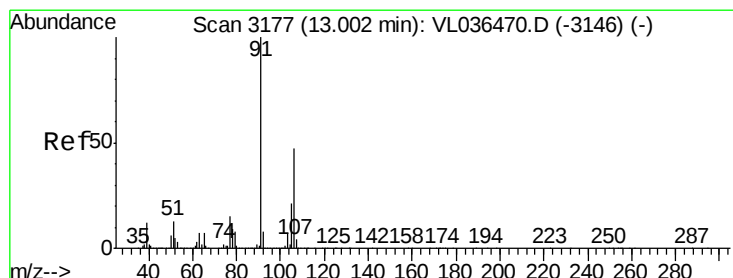
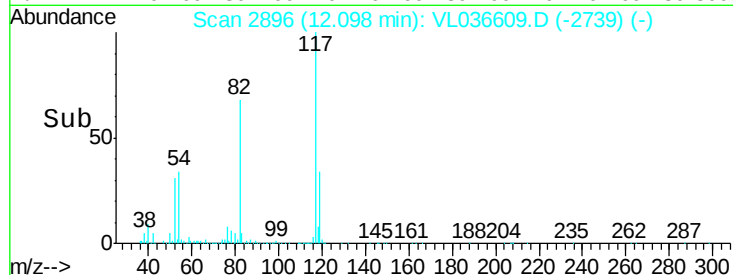
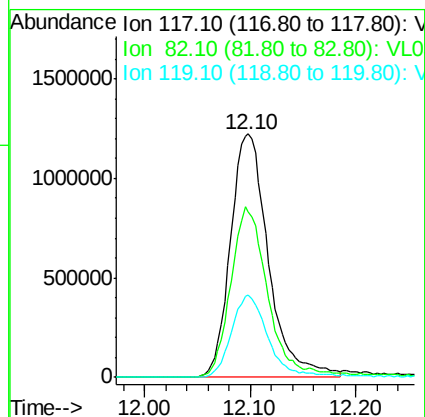
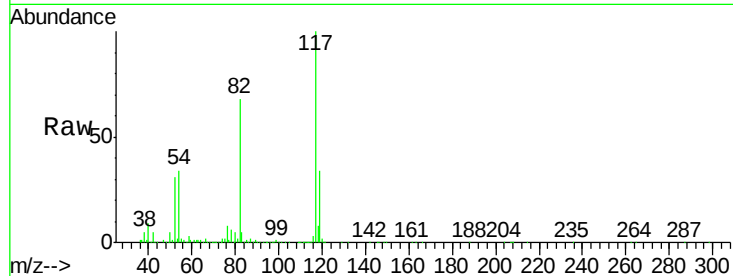
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
AASG2

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.6	57.4	86.0
119	32.9	47.4	71.0

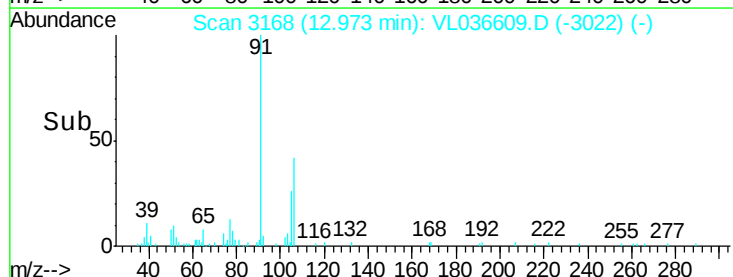
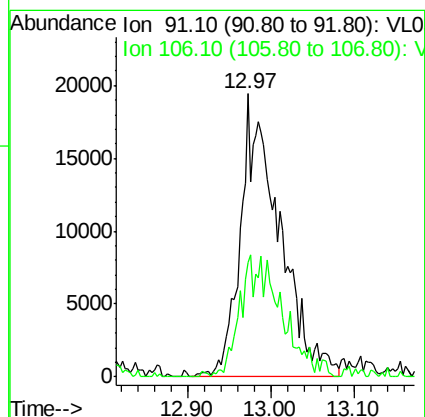
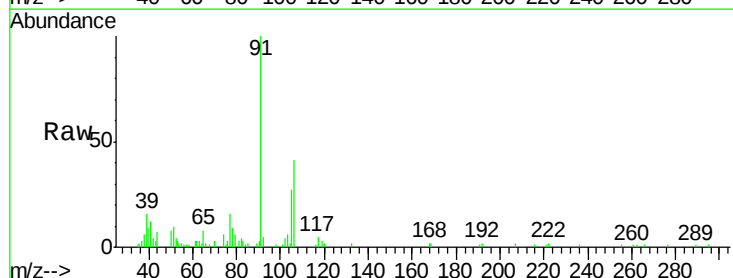
Manual Integrations
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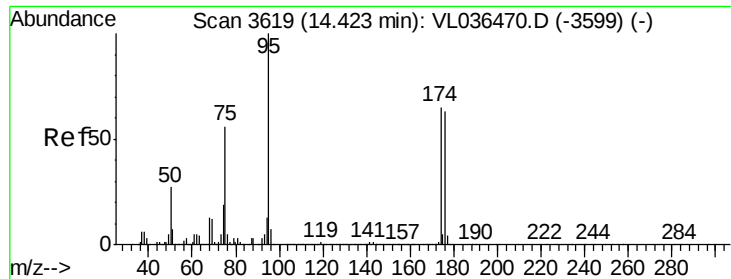
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#59
m/p-Xylene
Concen: 0.162 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.216 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. 0.01 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 AASG2

Tot Ion: 95 Resp: 2244106
 Ion Ratio Lower Upper
 95 100
 174 67.7 51.0 76.6
 175 5.0 3.9 5.9

Manual Integrations
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 4/2/2021 6:52:56 PM

