

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037307.D
 Acq On : 31 Jul 2021 7:18
 Operator : SY/AP
 Sample : M3121-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1

Manual Integrations
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MMDadoda
 8/2/2021 8:58:53 AM

Quant Time: Jul 31 08:05:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 31 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1065116	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3440635	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3025639	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2179320	9.90	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	54064	0.353	ppbv	92
3) Chlorodifluoromethane	2.99	51	443953	2.080	ppbv	97
4) Chloromethane	3.13	50	45344	0.609	ppbv #	88
9) Propene	3.02	41	36059	0.502	ppbv	90
11) Trichlorofluoromethane	3.94	101	45994	0.242	ppbv	98
13) Ethanol	3.61	45	324154m	20.542	ppbv	
15) Acetone	3.85	43	885678	4.617	ppbv	98
19) Isopropyl Alcohol	3.98	45	272833m	3.676	ppbv	
20) Methylene Chloride	4.34	84	333304	4.490	ppbv	94
26) Hexane	5.68	57	302900	2.036	ppbv #	54
34) 2-Butanone	5.25	43	59056	0.400	ppbv #	77
35) Carbon Tetrachloride	7.01	117	13869m	0.064	ppbv	
36) Benzene	6.89	78	42059m	0.144	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	57945m	0.122	ppbv	
52) Tetrachloroethene	11.22	164	10263m	0.080	ppbv	
53) Toluene	9.80	91	654035	1.910	ppbv	99
59) m/p-Xylene	12.96	91	41573m	0.116	ppbv	

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

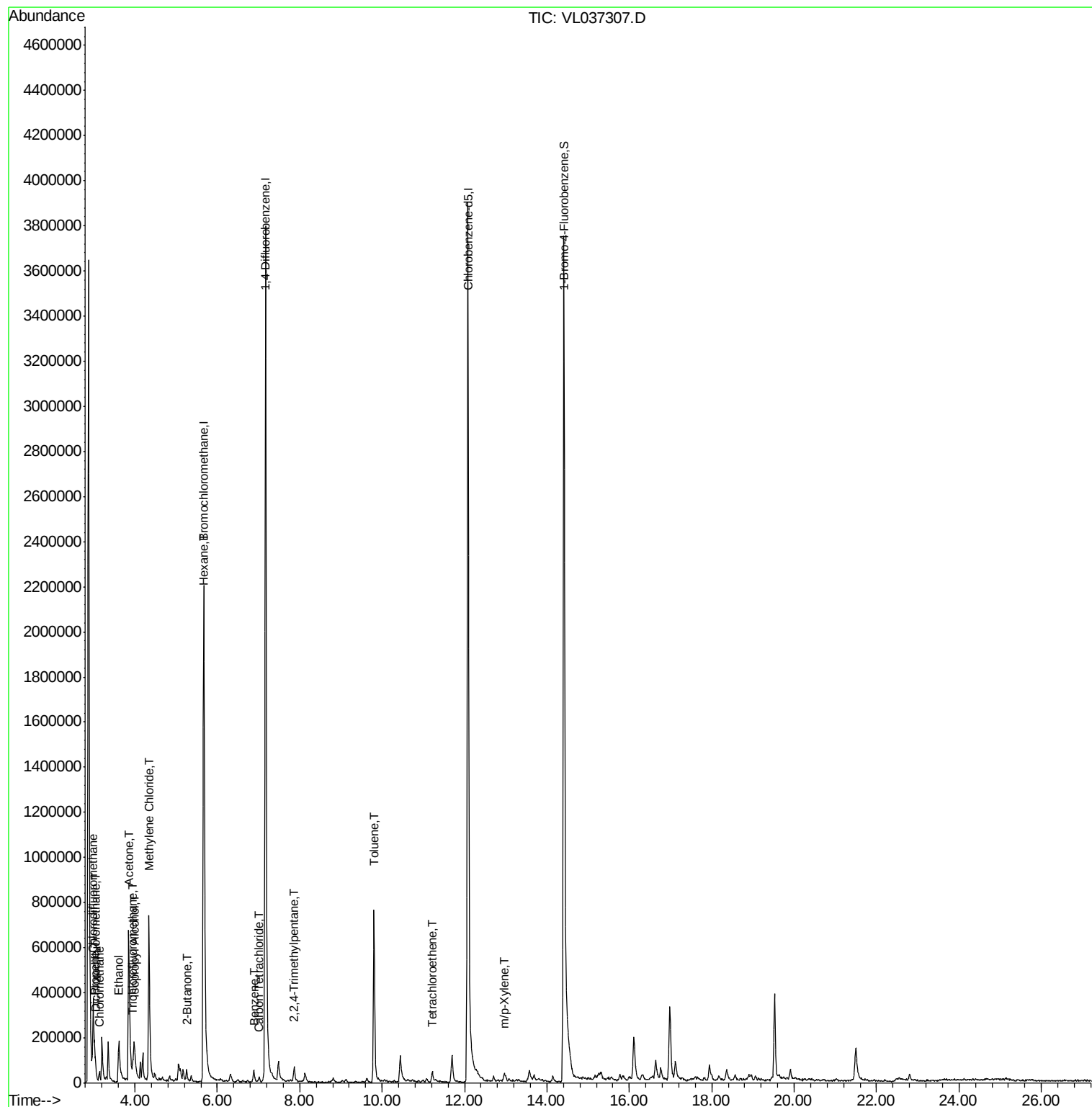
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
Data File : VL037307.D
Acq On : 31 Jul 2021 7:18
Operator : SY/AP
Sample : M3121-05
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

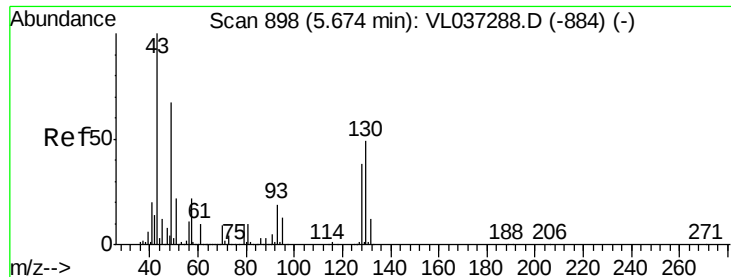
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

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Quant Time: Jul 31 08:05:15 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration





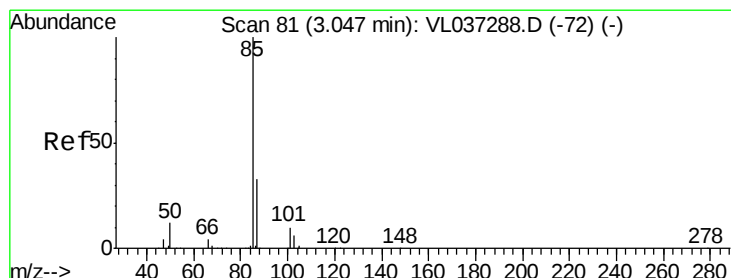
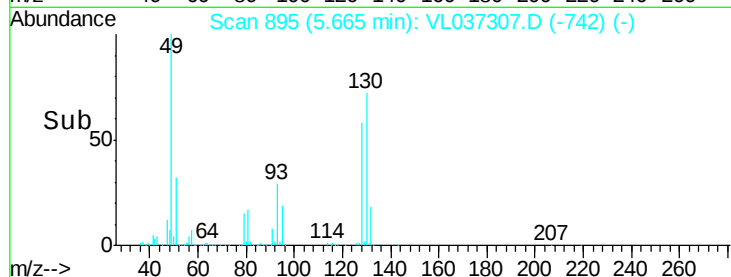
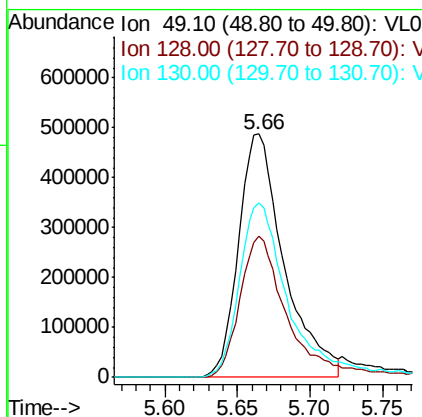
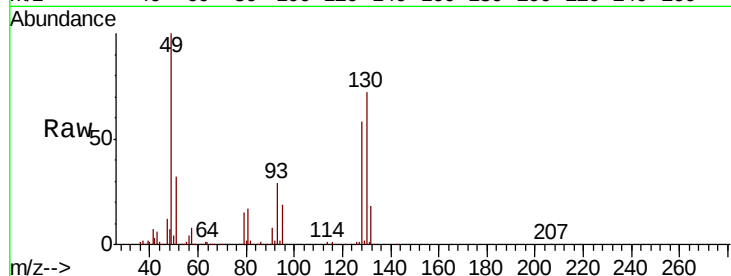
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion: 49 Resp: 1065116
Ion Ratio Lower Upper
49 100
128 63.0 30.6 92.0
130 80.1 37.8 113.4

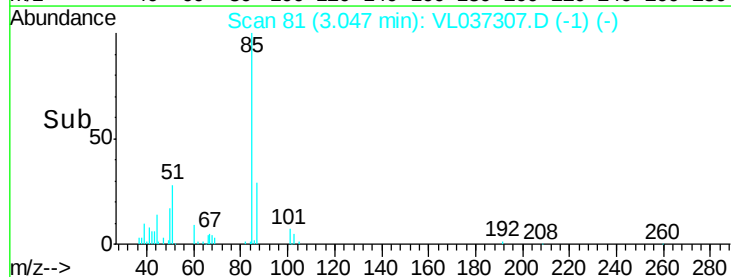
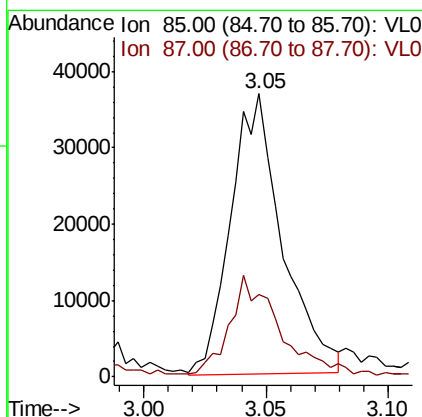
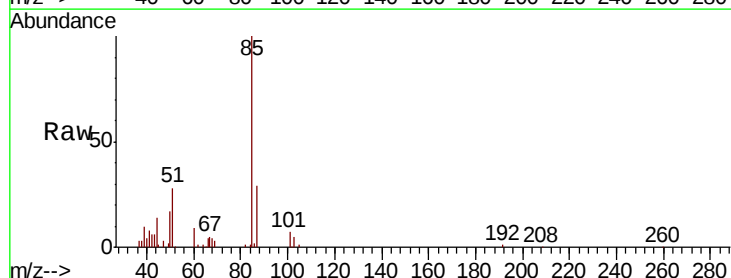
Manual Integrations
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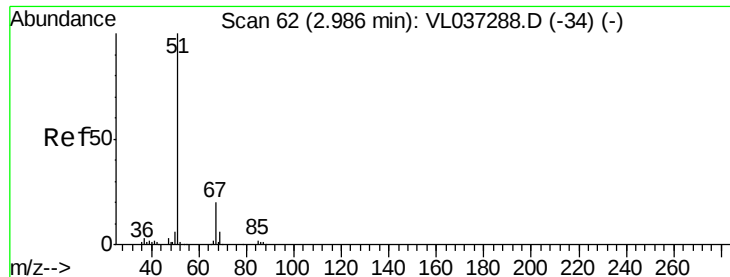
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#2
Dichlorodifluoromethane
Concen: 0.353 ppbv
RT: 3.05 min Scan# 81
Delta R.T. 0.00 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion: 85 Resp: 54064
Ion Ratio Lower Upper
85 100
87 28.5 26.6 40.0





#3

Chlorodifluoromethane

Concen: 2.080 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037307.D

Acq: 31 Jul 2021 7:18

Tot Ion: 51 Resp: 443953

Ion Ratio Lower Upper

51 100

67 17.5 15.2 22.8

Instrument :

MSVOA_L

ClientSampleId :

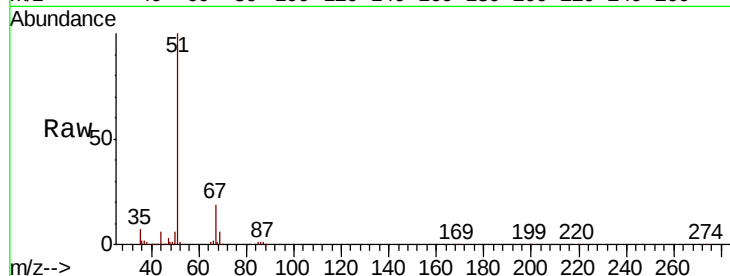
IA-BEDROOM-1

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.99

250000

200000

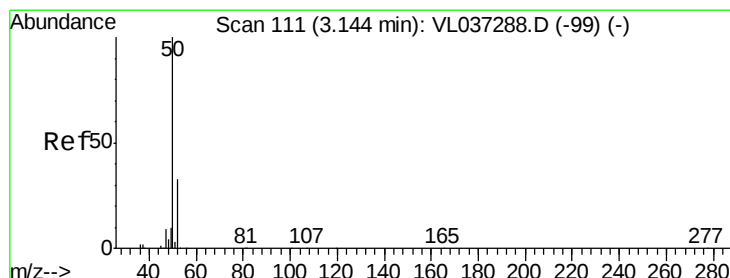
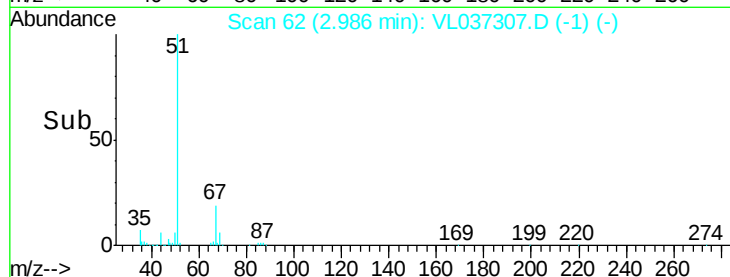
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.609 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037307.D

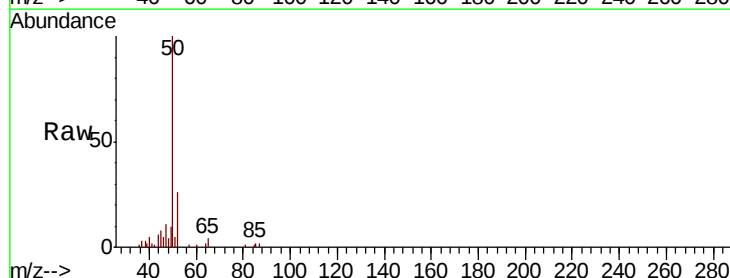
Acq: 31 Jul 2021 7:18

Tgt Ion: 50 Resp: 45344

Ion Ratio Lower Upper

50 100

52 26.1 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

25000

20000

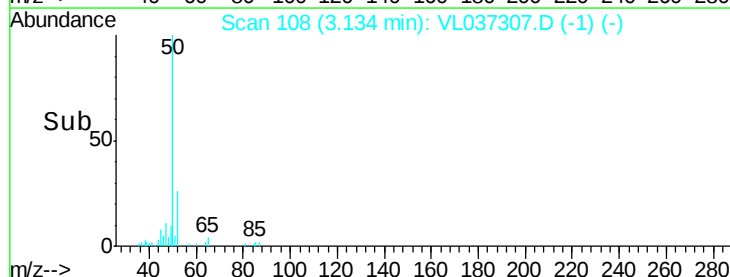
15000

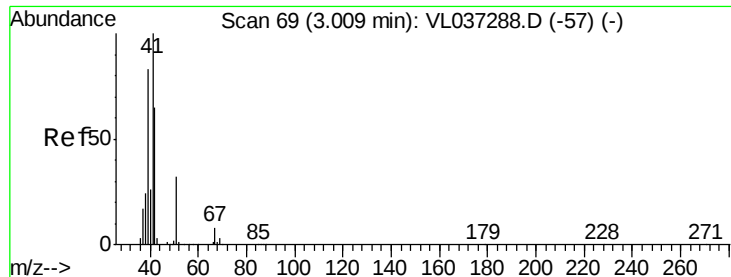
10000

5000

0

Time-->





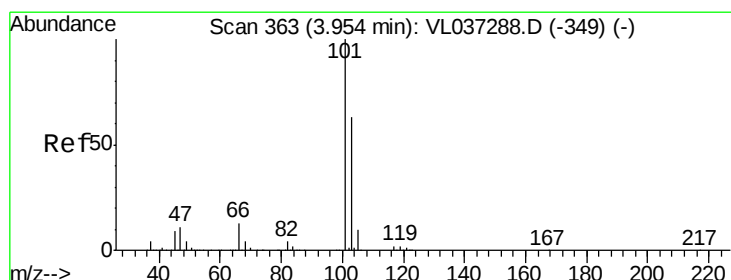
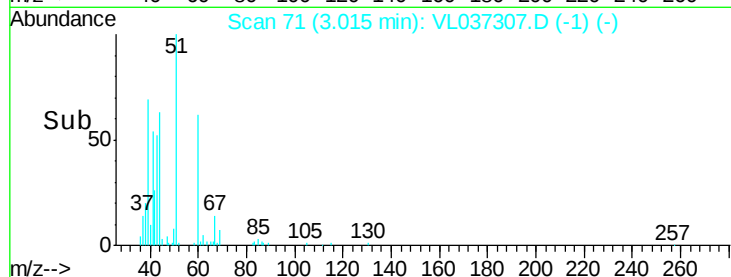
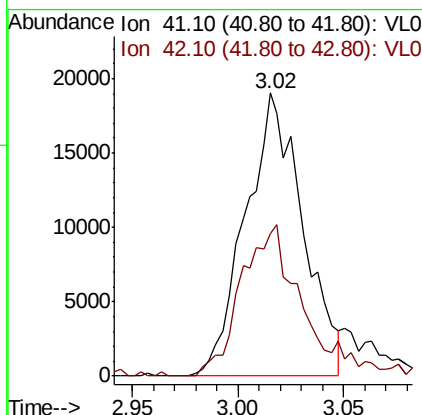
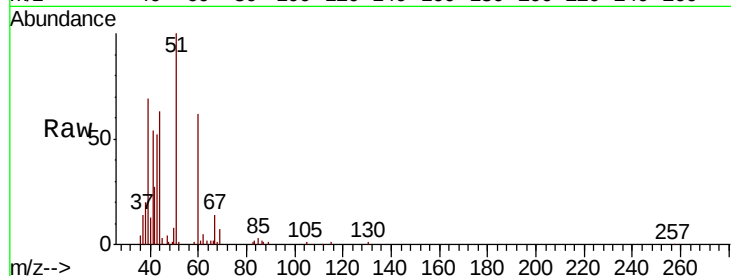
#9
 Propene
 Concen: 0.502 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL037307.D
 Acq: 31 Jul 2021 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1

Tot Ion: 41 Resp: 36059
 Ion Ratio Lower Upper
 41 100
 42 59.3 54.0 81.0

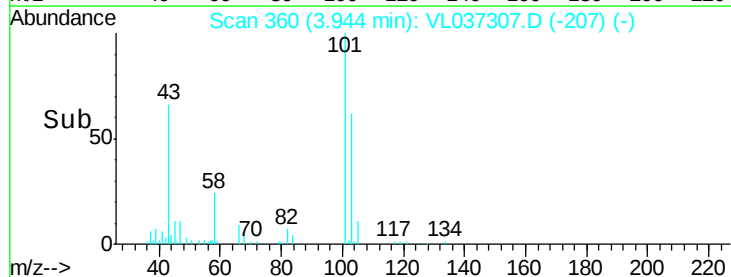
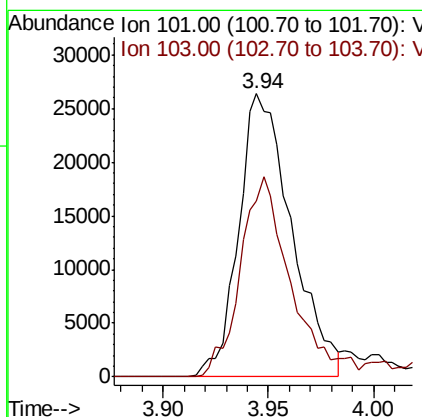
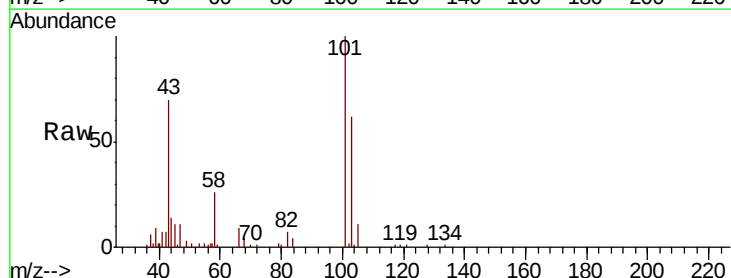
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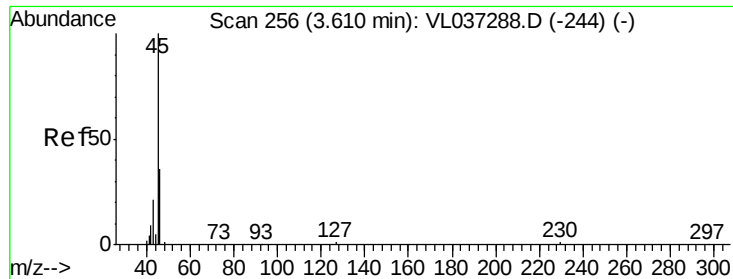
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#11
 Trichlorofluoromethane
 Concen: 0.242 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037307.D
 Acq: 31 Jul 2021 7:18

Tgt Ion: 101 Resp: 45994
 Ion Ratio Lower Upper
 101 100
 103 62.0 50.6 75.8





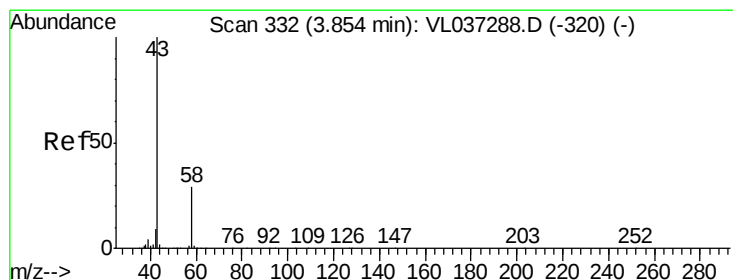
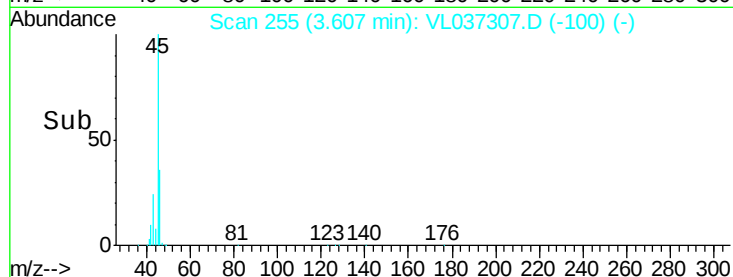
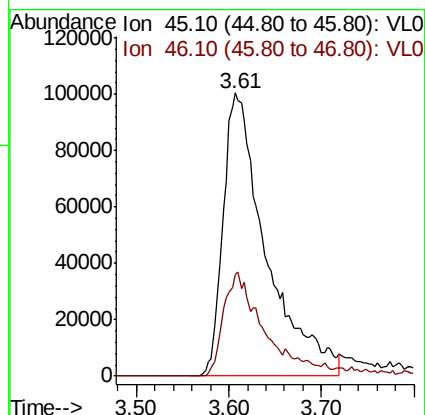
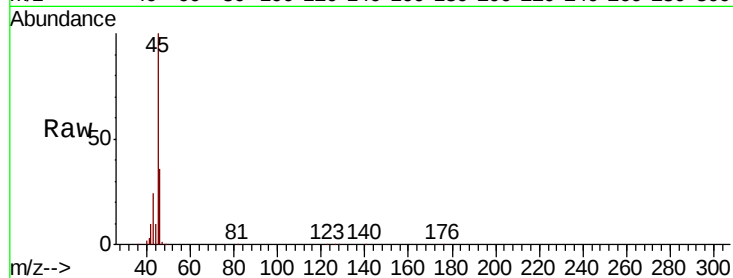
#13
Ethanol
Concen: 20.542 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion: 45 Resp: 324154
Ion Ratio Lower Upper
45 100
46 36.9 16.2 64.8

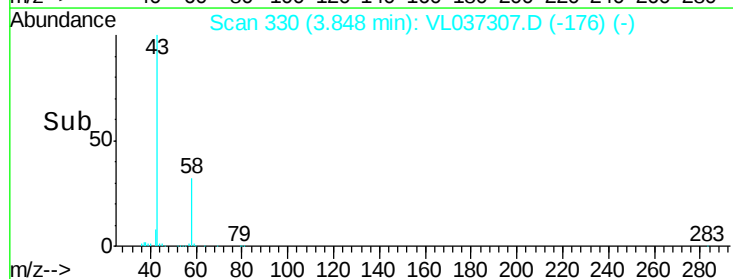
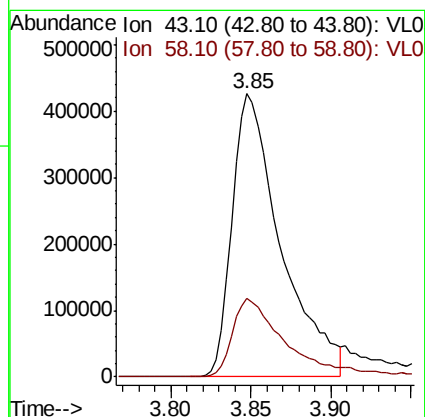
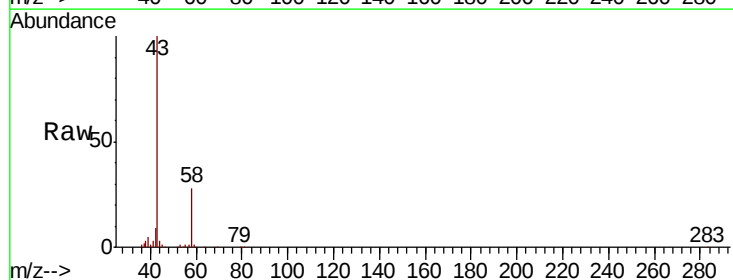
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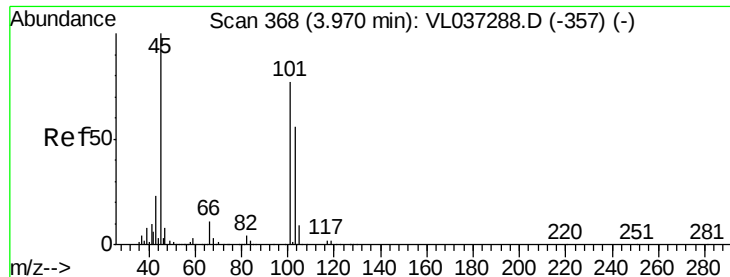
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#15
Acetone
Concen: 4.617 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion: 43 Resp: 885678
Ion Ratio Lower Upper
43 100
58 31.2 24.2 36.4





#19

Isopropyl Alcohol

Concen: 3.676 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL037307.D

Acq: 31 Jul 2021 7:18

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1

Tot Ion: 45 Resp: 272833

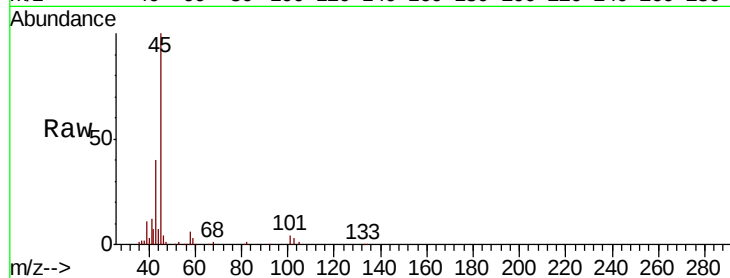
Ion Ratio Lower Upper

45 100

58 6.5 2.2 3.2#

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

Ion 58.10 (57.80 to 58.80): VL0

120000

100000

80000

60000

40000

20000

0

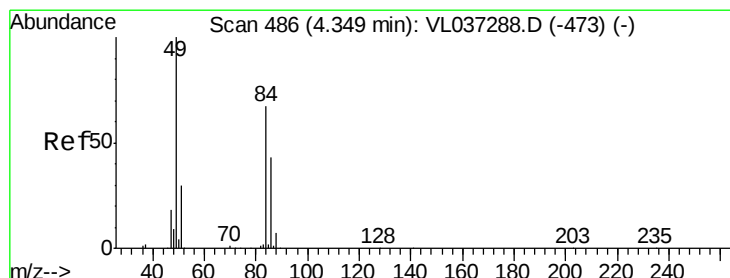
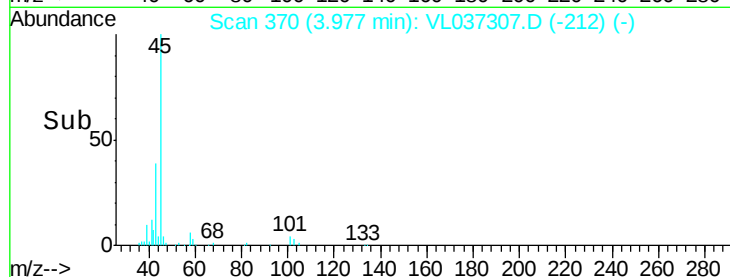
3.98

3.90

4.00

4.10

Time-->



#20

Methylene Chloride

Concen: 4.490 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037307.D

Acq: 31 Jul 2021 7:18

Tgt Ion: 84 Resp: 333304

Ion Ratio Lower Upper

84 100

49 138.3 120.2 180.4

51 45.2 36.5 54.7

86 63.6 51.3 76.9

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

300000

200000

100000

0

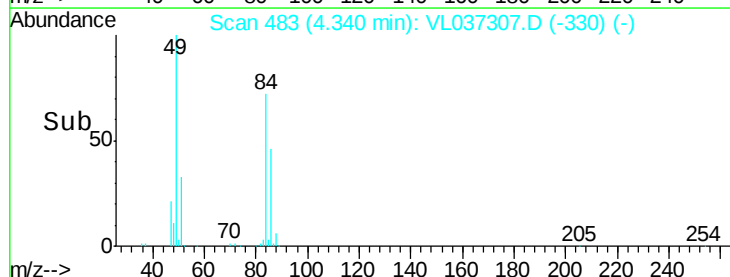
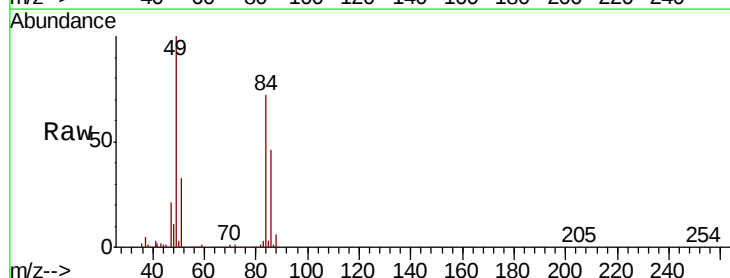
4.34

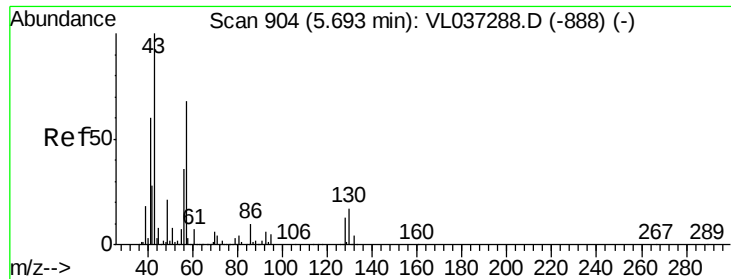
4.30

4.35

4.40

Time-->





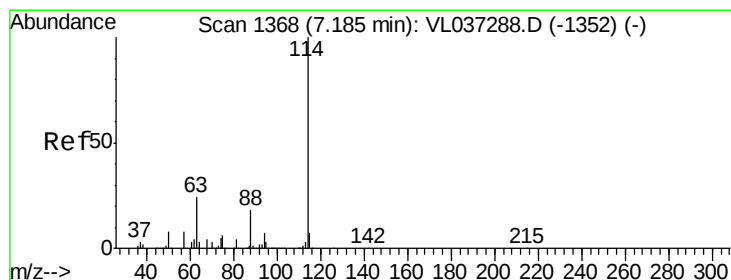
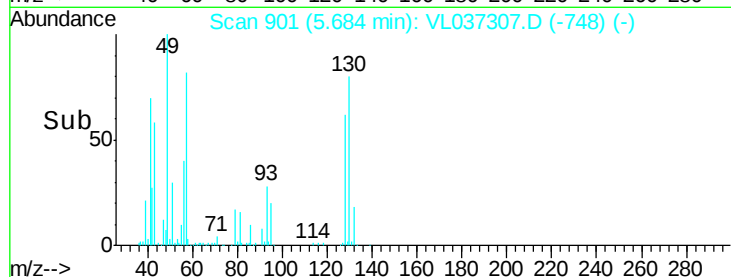
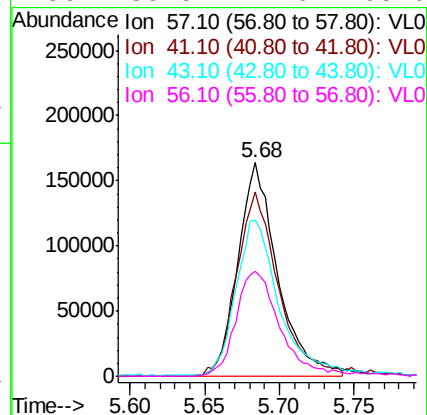
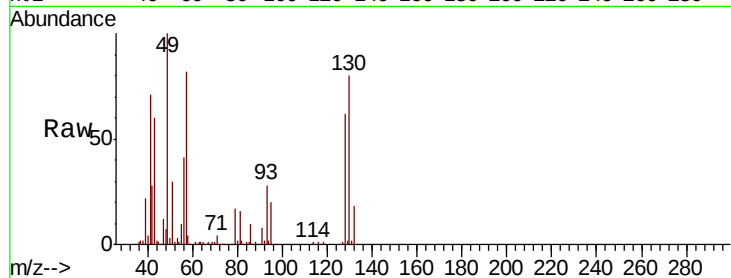
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Hexane
Concen: 2.036 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	94.5	71.0	106.6
43	82.2	155.0	232.4#
56	55.5	42.0	63.0

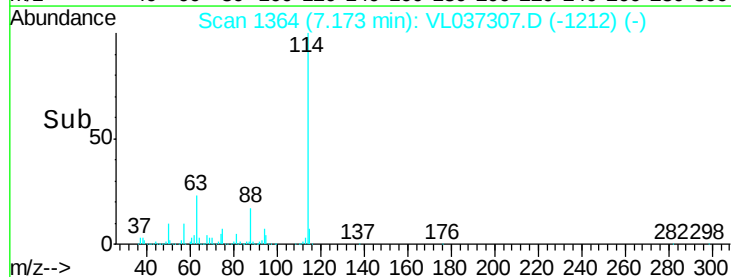
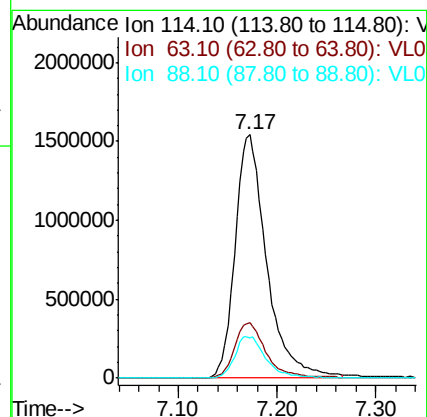
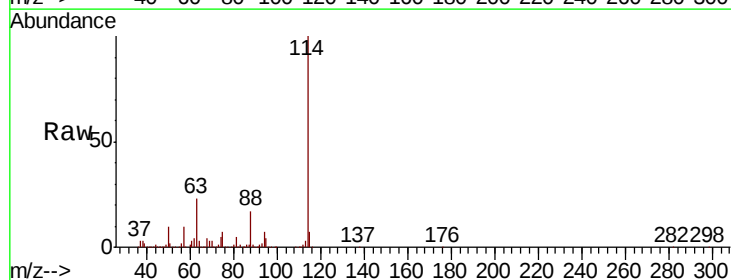
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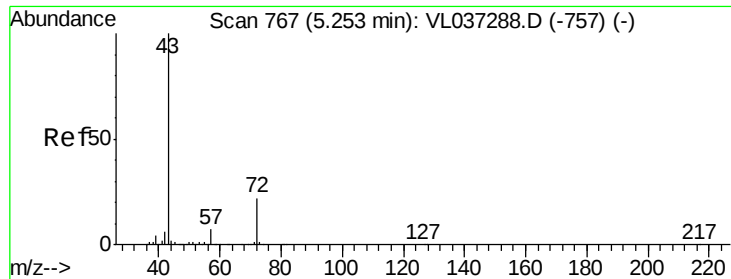
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.1	19.0	28.4
88	17.4	14.0	21.0





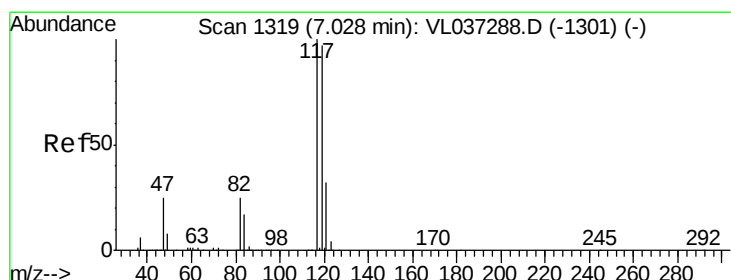
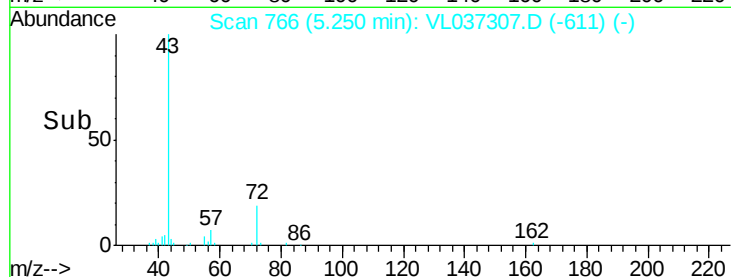
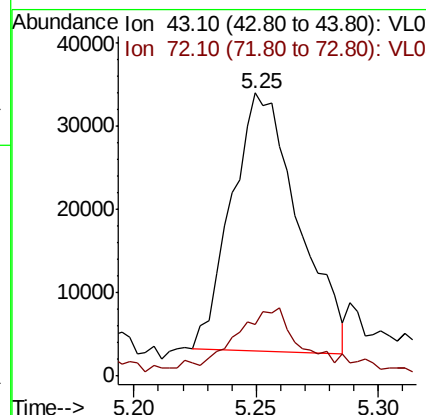
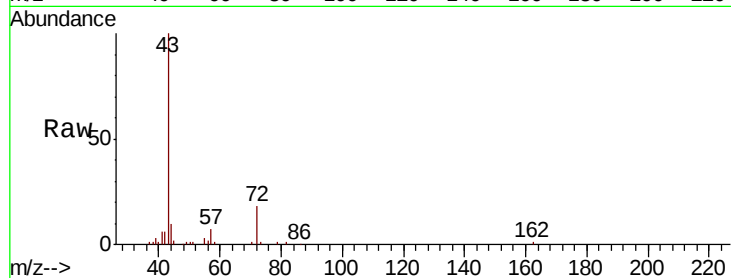
#34
2-Butanone
Concen: 0.400 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion: 43 Resp: 59056
Ion Ratio Lower Upper
43 100
72 34.1 18.5 27.7#

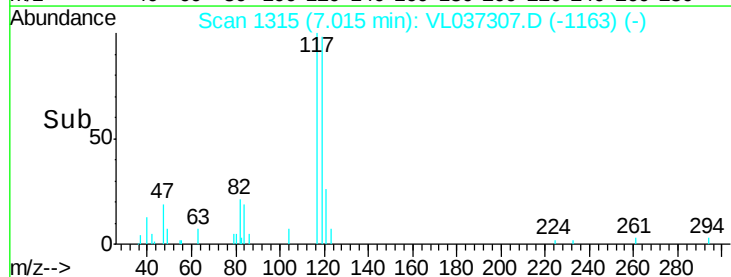
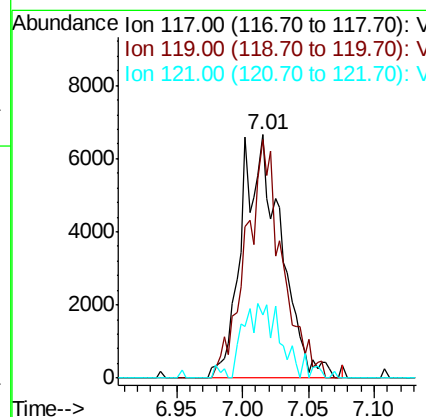
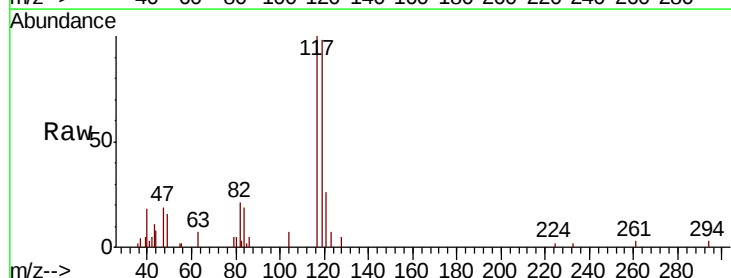
Manual Integrations
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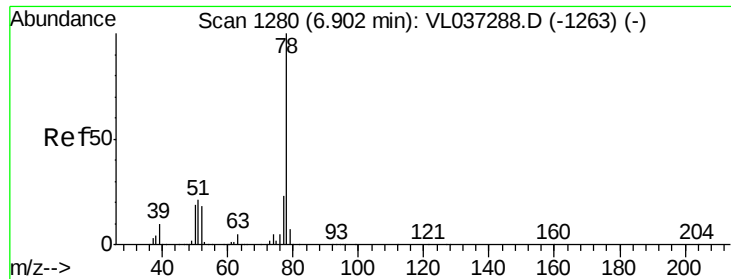
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#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion: 117 Resp: 13869
Ion Ratio Lower Upper
117 100
119 97.7 77.4 116.2
121 25.9 25.8 38.8





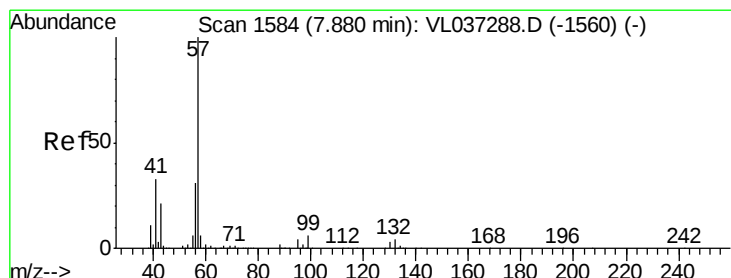
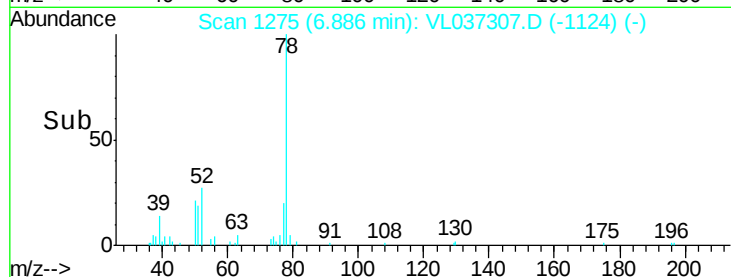
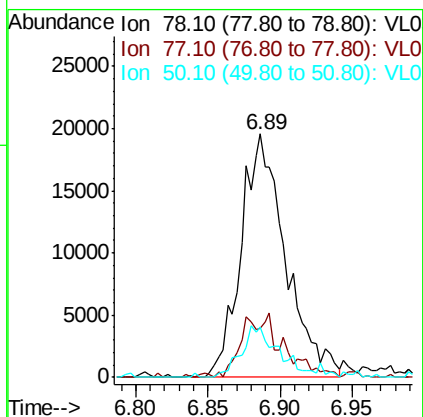
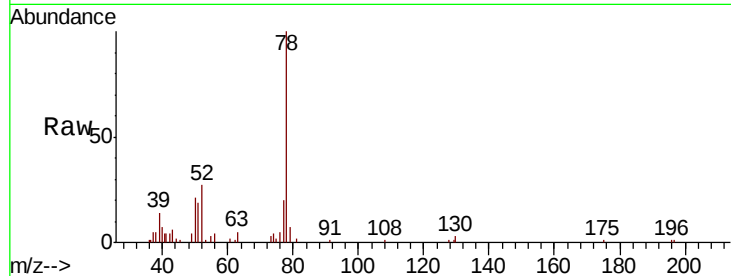
#36
Benzene
Concen: 0.144 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.9	18.3	27.5
50	20.6	15.5	23.3

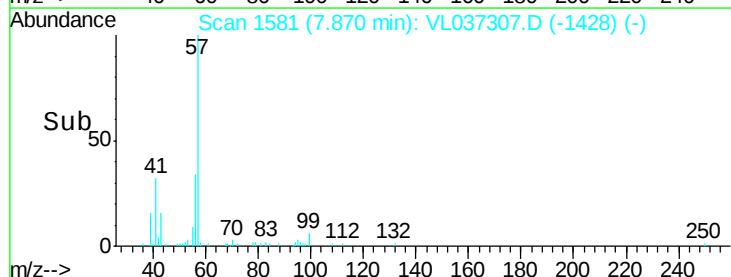
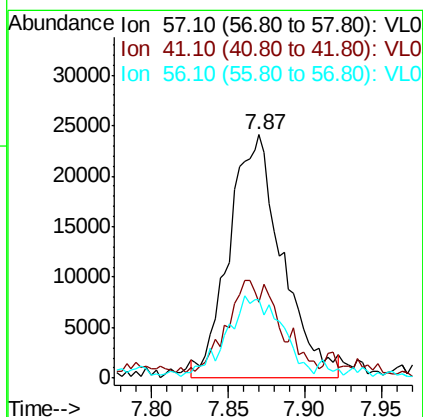
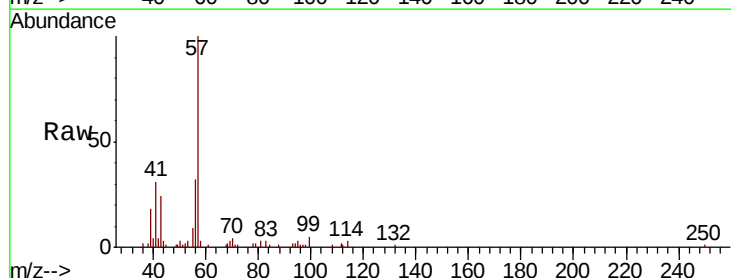
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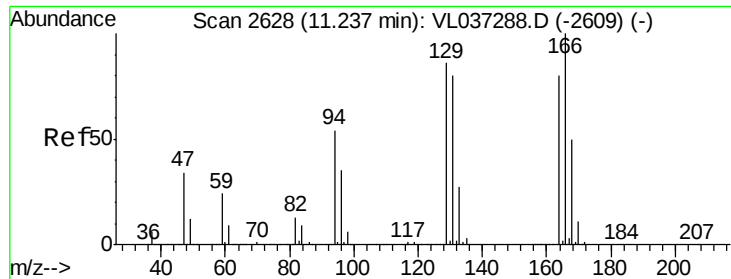
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#44
2,2,4-Trimethylpentane
Concen: 0.122 ppbv m
RT: 7.87 min Scan# 1581
Delta R.T. -0.01 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	50.8	26.6	40.0#
56	38.7	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.080 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.02 min

Lab File: VL037307.D

Acq: 31 Jul 2021 7:18

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-1

Tot Ion:164 Resp: 10263

Ion Ratio Lower Upper

164 100

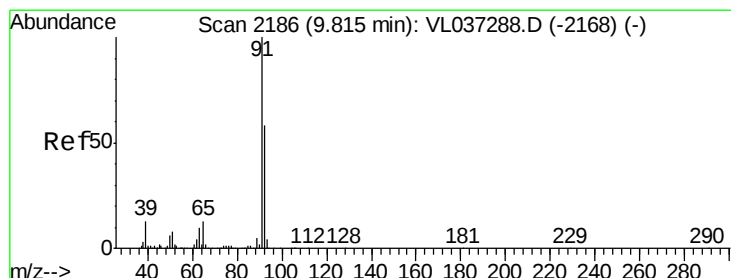
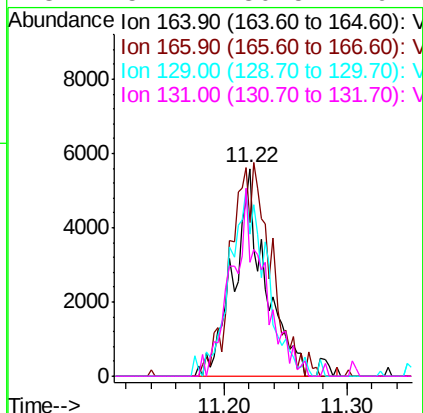
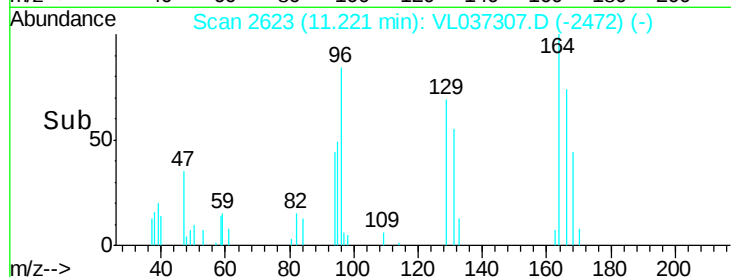
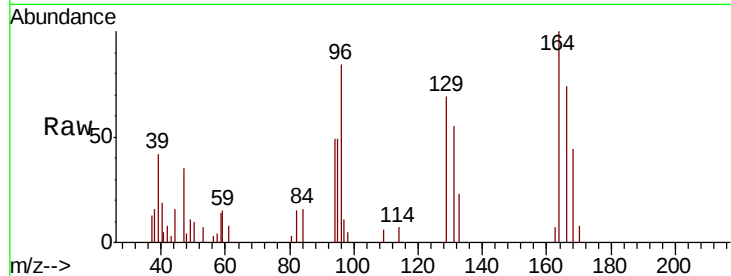
166 74.2 100.4 150.6#

129 68.6 86.2 129.4#

131 54.7 80.5 120.7#

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#53

Toluene

Concen: 1.910 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037307.D

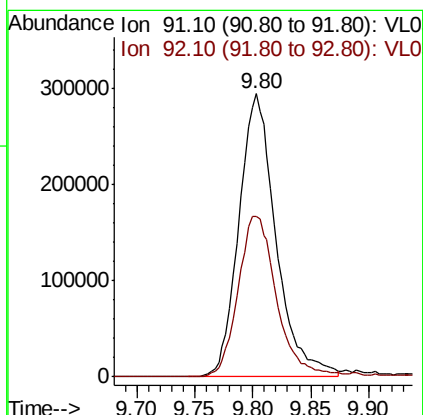
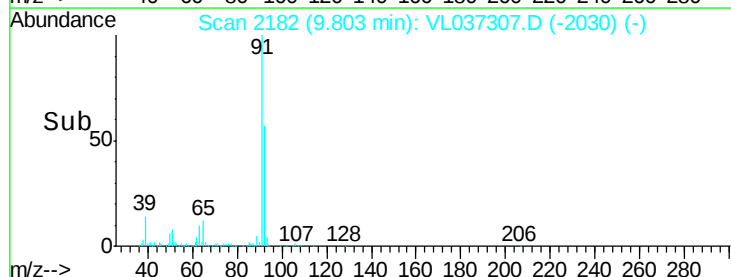
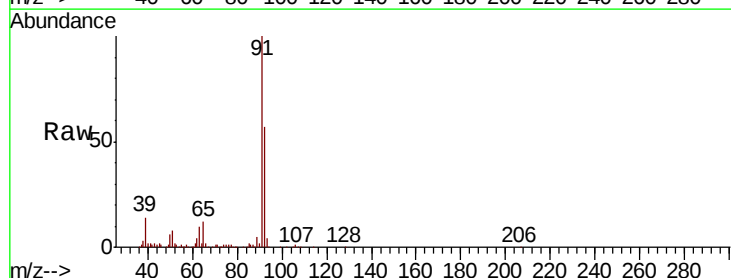
Acq: 31 Jul 2021 7:18

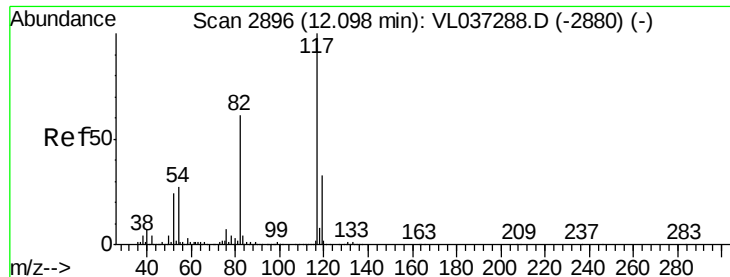
Tgt Ion: 91 Resp: 654035

Ion Ratio Lower Upper

91 100

92 60.8 48.2 72.2





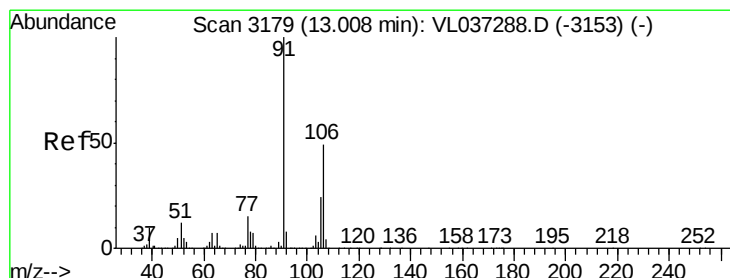
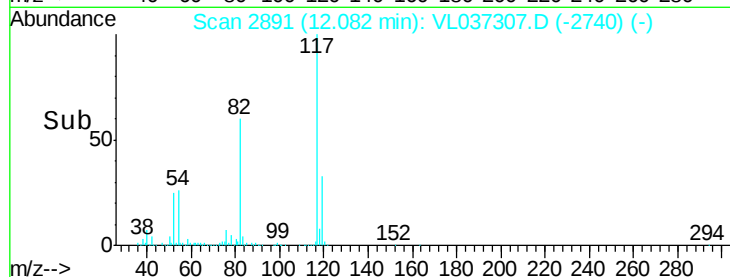
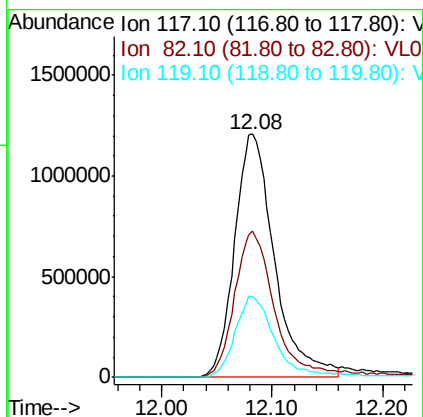
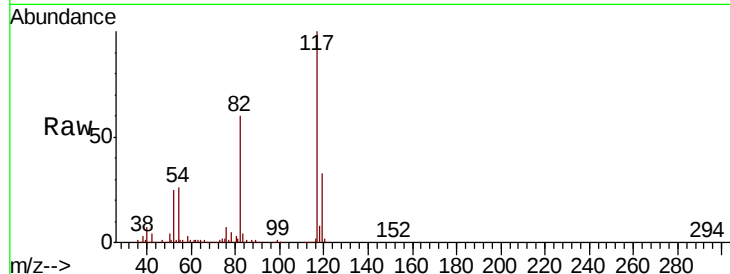
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.02 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.6	47.2	70.8
119	34.8	45.8	68.8#

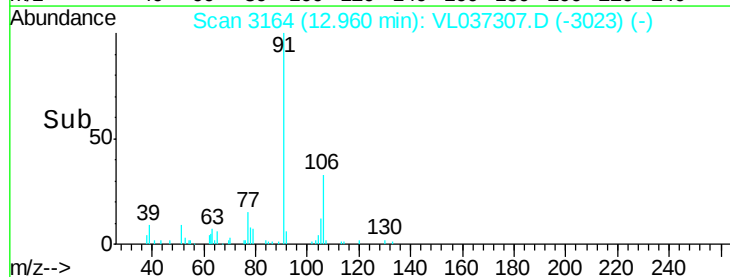
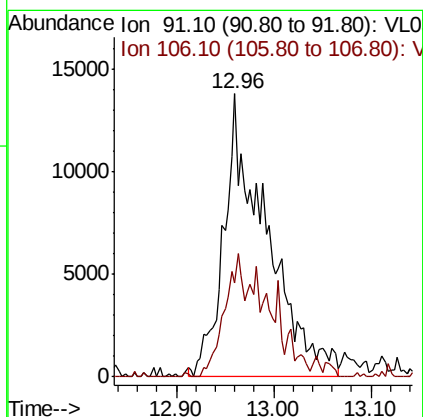
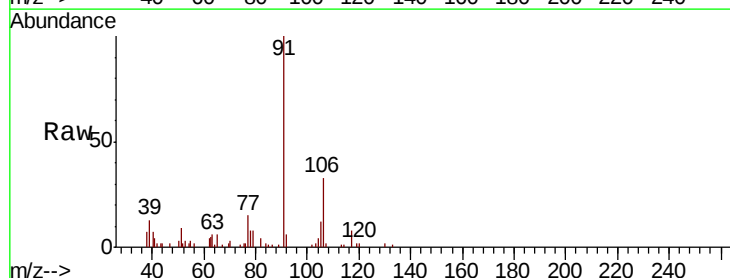
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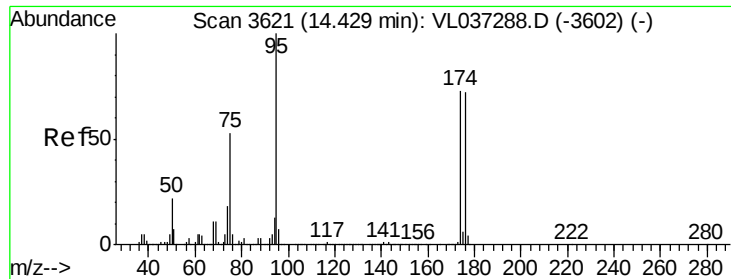
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#59
m/p-Xylene
Concen: 0.116 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.05 min
Lab File: VL037307.D
Acq: 31 Jul 2021 7:18

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.3	55.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.901 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.02 min
 Lab File: VL037307.D
 Acq: 31 Jul 2021 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-1

Tot Ion	Ratio	Lower	Upper
95	100		
174	78.9	59.8	89.6
175	5.5	4.5	6.7

Manual Integrations
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