

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035546.D
 Acq On : 4 Sep 2020 1:09
 Operator : SY/AP
 Sample : L3898-07 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5

Manual Integrations
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 9/8/2020 5:13:05 PM

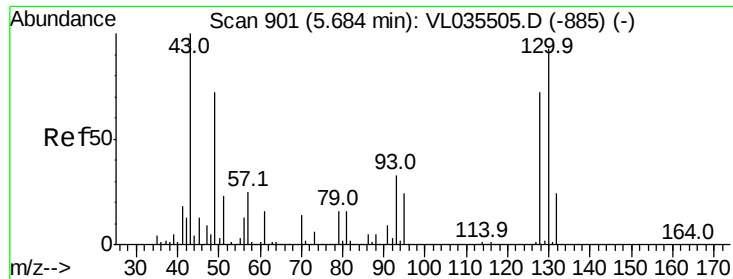
Quant Time: Sep 05 15:24:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1054236	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4357093	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	4307673	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	3148500	10.29	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	9293734	50.870	ppbv	# 41
3) Chlorodifluoromethane	3.00	51	20522m	0.176	ppbv	
9) Propene	3.02	41	24103m	0.536	ppbv	
11) Trichlorofluoromethane	3.96	101	66624	0.250	ppbv	93
13) Ethanol	3.62	45	100180	8.989	ppbv	99
15) Acetone	3.87	43	317482	2.731	ppbv	98
19) Isopropyl Alcohol	4.00	45	12278m	0.177	ppbv	
20) Methylene Chloride	4.36	84	52072	0.601	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	396637	4.207	ppbv	96
24) 1,1-Dichloroethane	5.03	63	487406	3.174	ppbv	99
26) Hexane	5.71	57	31051	0.267	ppbv	# 50
29) Chloroform	5.77	83	414149	1.746	ppbv	98
31) cis-1,2-Dichloroethene	5.57	61	6372808	53.371	ppbv	91
32) 1,1,1-Trichloroethane	6.54	97	753385	3.275	ppbv	98
34) 2-Butanone	5.29	43	12881m	0.100	ppbv	
36) Benzene	6.92	78	39857	0.141	ppbv	# 91
38) Trichloroethene	7.87	130	7781141	47.495	ppbv	# 92
52) Tetrachloroethene	11.26	164	12724466m	77.227	ppbv	
53) Toluene	9.84	91	40660	0.115	ppbv	94

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 49 Resp: 1054236

Ion Ratio Lower Upper

49 100

128 96.5 50.0 150.1

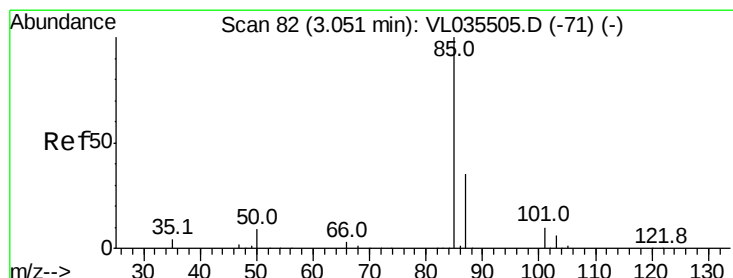
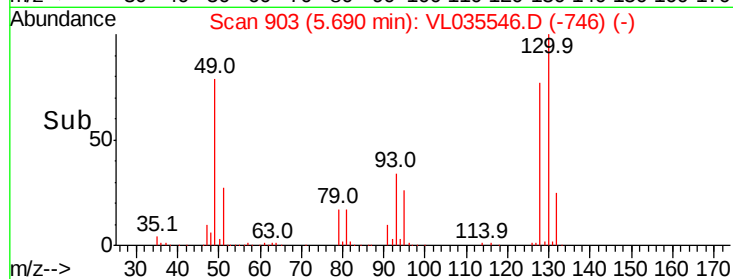
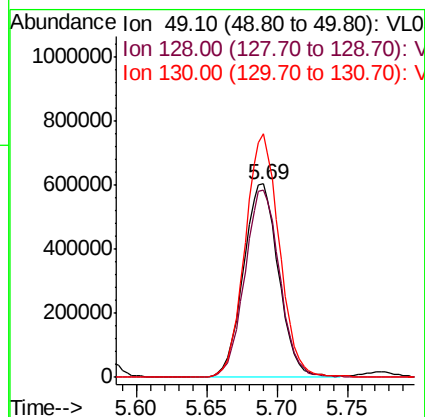
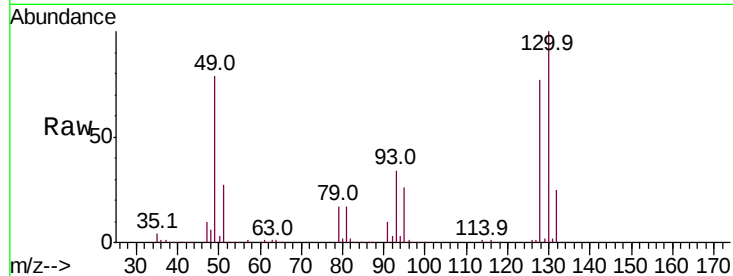
130 123.3 64.4 193.2

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#2

Dichlorodifluoromethane

Concen: 50.870 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035546.D

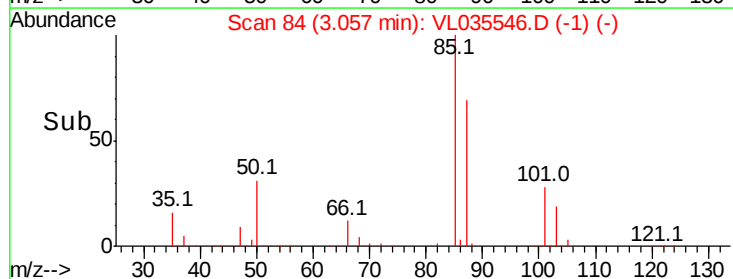
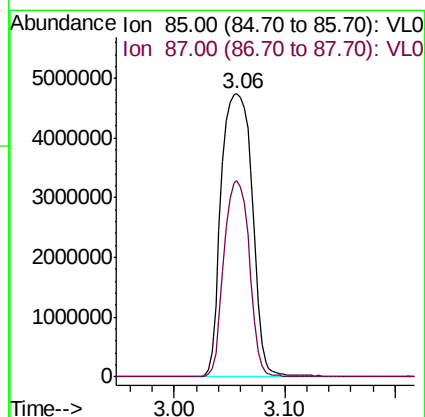
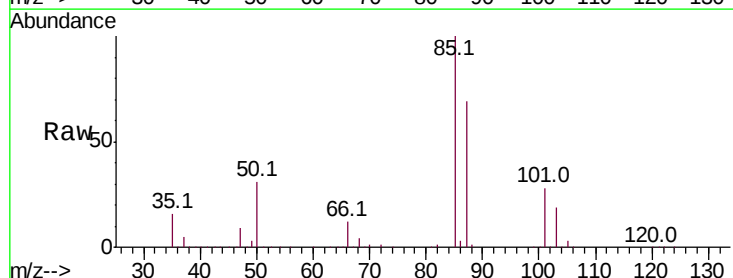
Acq: 4 Sep 2020 1:09

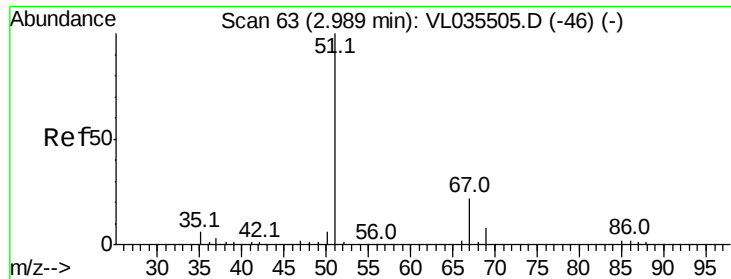
Tgt Ion: 85 Resp: 9293734

Ion Ratio Lower Upper

85 100

87 69.3 28.0 42.0#





#3

Chlorodifluoromethane

Concen: 0.176 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 51 Resp: 20522

Ion Ratio Lower Upper

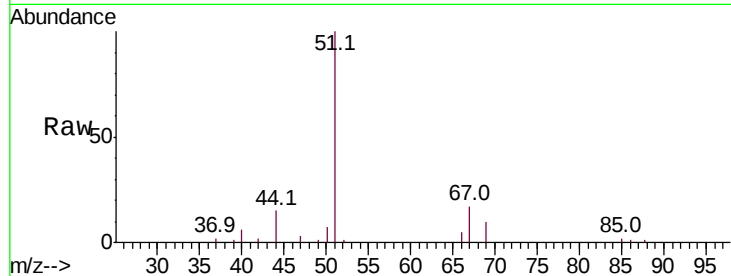
51 100

67 21.1 17.8 26.8

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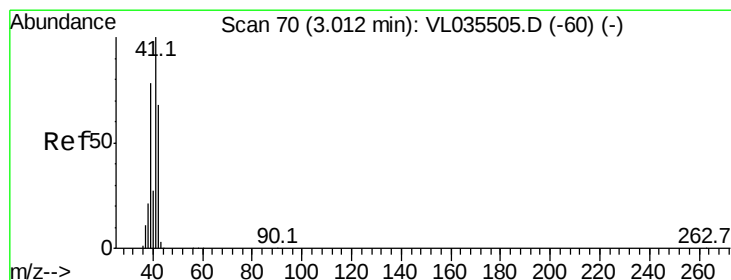
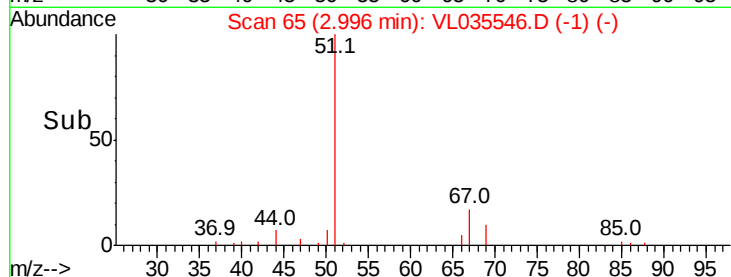
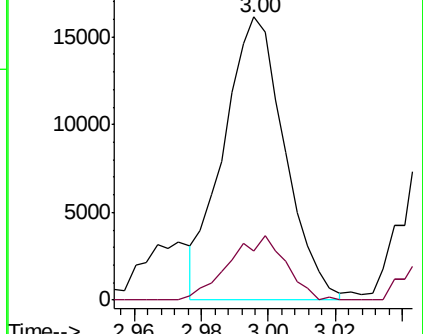
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.536 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL035546.D

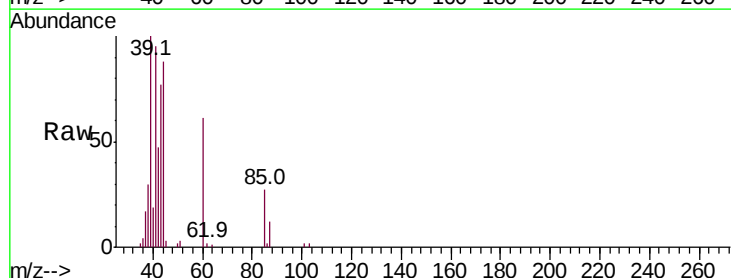
Acq: 4 Sep 2020 1:09

Tgt Ion: 41 Resp: 24103

Ion Ratio Lower Upper

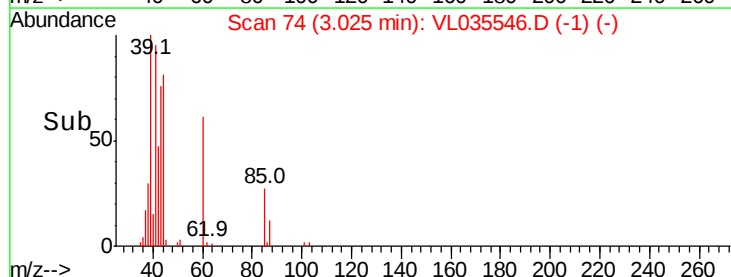
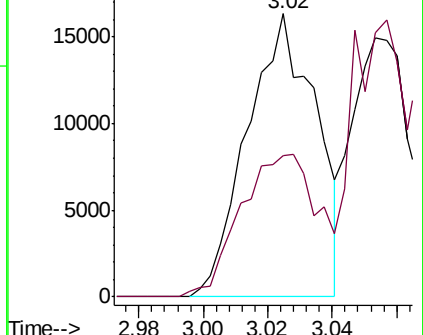
41 100

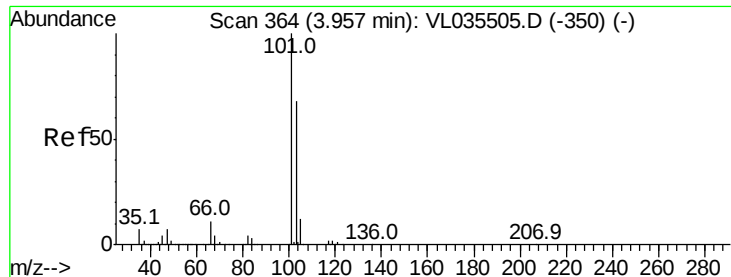
42 80.0 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





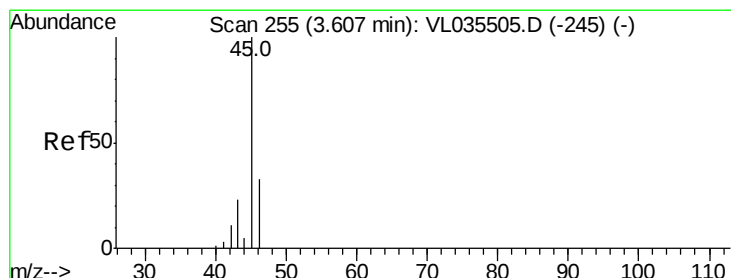
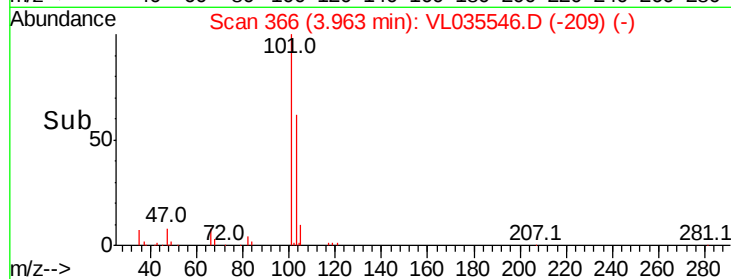
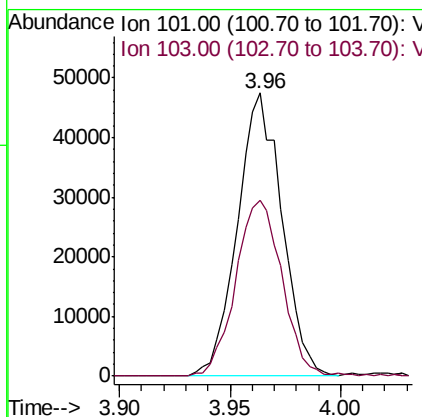
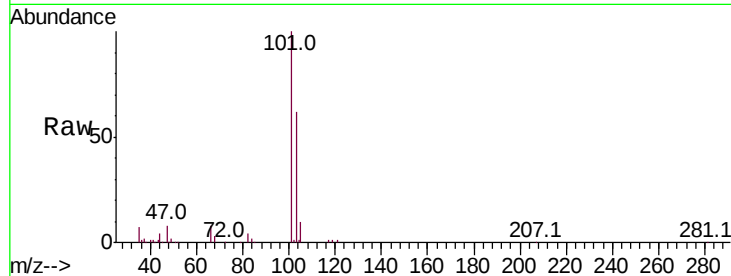
#11
 Trichlorofluoromethane
 Concen: 0.250 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL035546.D
 Acq: 4 Sep 2020 1:09

Instrument :
 MSVOA_L
 ClientSampled :
 SS-5

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	54.5	81.7

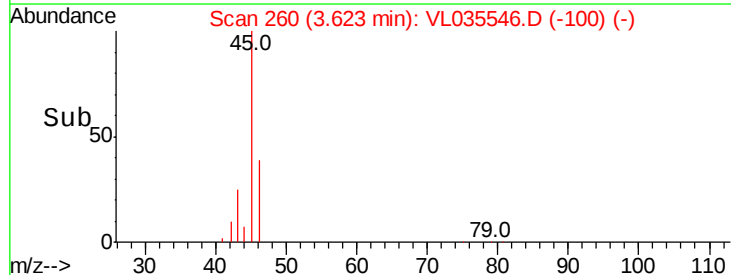
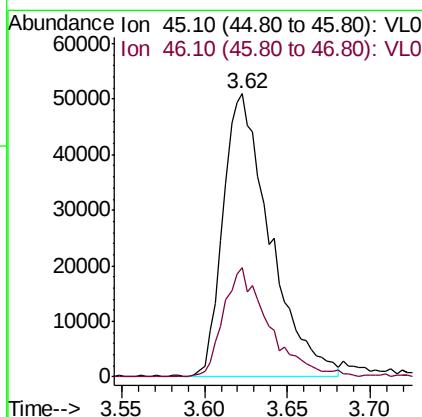
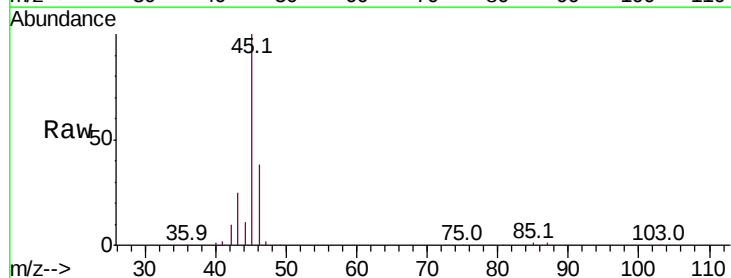
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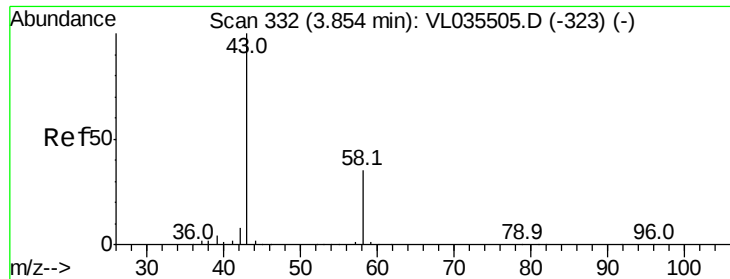
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#13
 Ethanol
 Concen: 8.989 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL035546.D
 Acq: 4 Sep 2020 1:09

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.5	15.2	60.6





#15

Acetone

Concen: 2.731 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 43 Resp: 317482

Ion Ratio Lower Upper

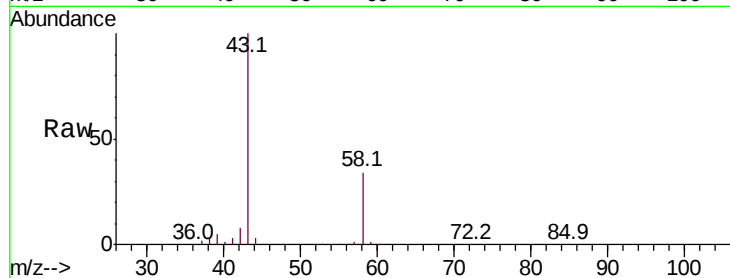
43 100

58 36.8 28.4 42.6

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

250000

200000

150000

100000

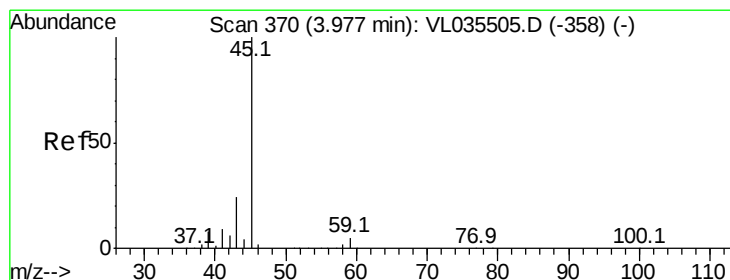
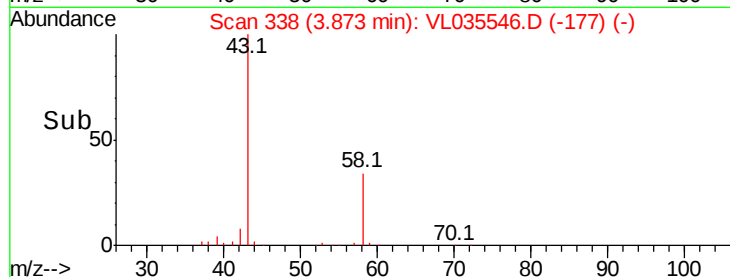
50000

0

3.87

3.85 3.90 3.95

Time-->



#19

Isopropyl Alcohol

Concen: 0.177 ppbv m

RT: 4.00 min Scan# 378

Delta R.T. 0.03 min

Lab File: VL035546.D

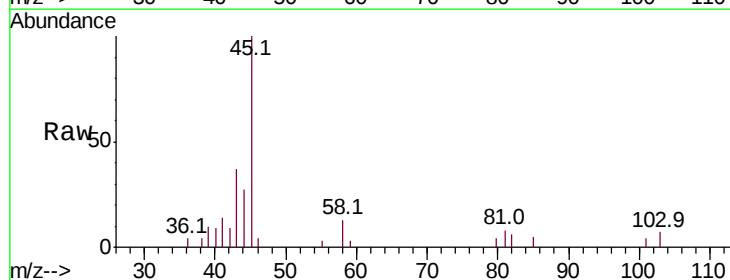
Acq: 4 Sep 2020 1:09

Tgt Ion: 45 Resp: 12278

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

6000

4000

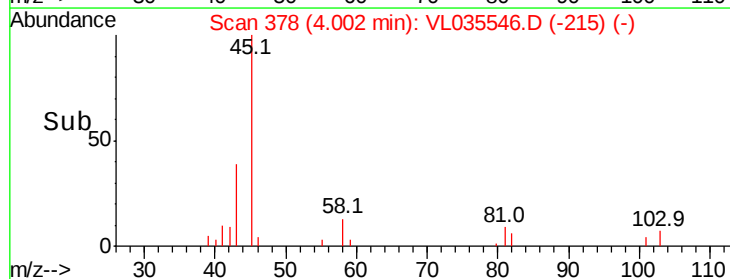
2000

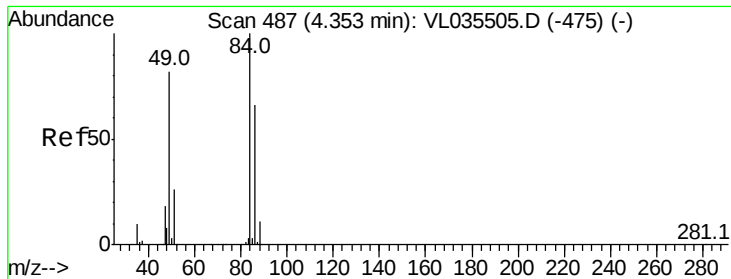
0

4.00

3.95 4.05

Time-->





#20

Methylene Chloride

Concen: 0.601 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

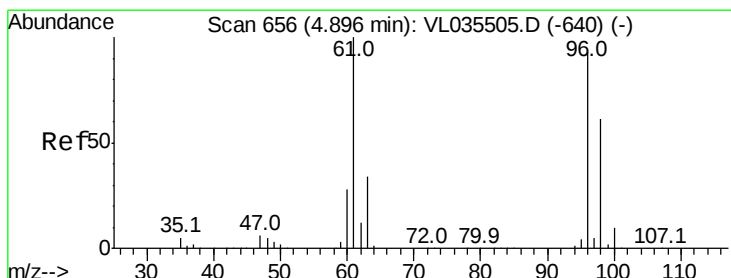
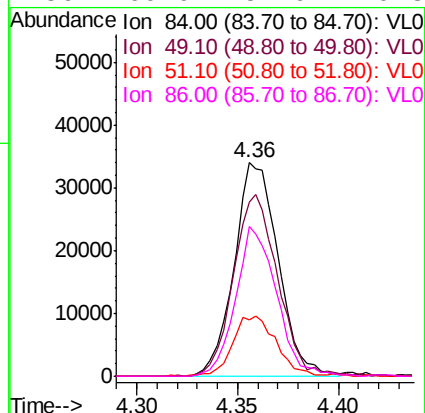
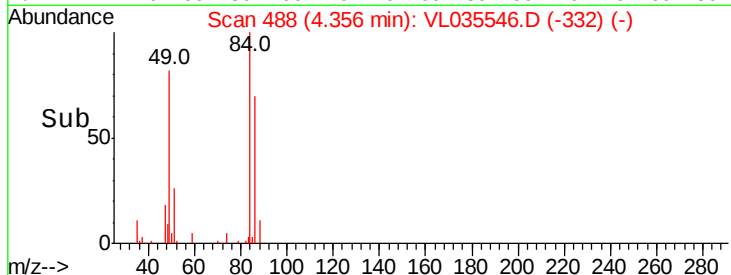
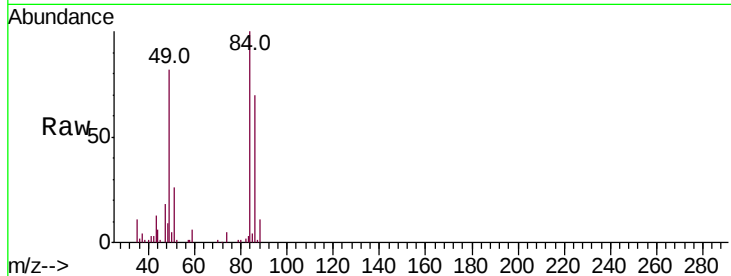
ClientSampled :

SS-5

Tot Ion:	84	Resp:	52072
Ion Ratio	Lower	Upper	
84	100		
49	81.8	65.4	98.0
51	25.7	21.5	32.3
86	69.9	52.9	79.3

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 4.207 ppbv

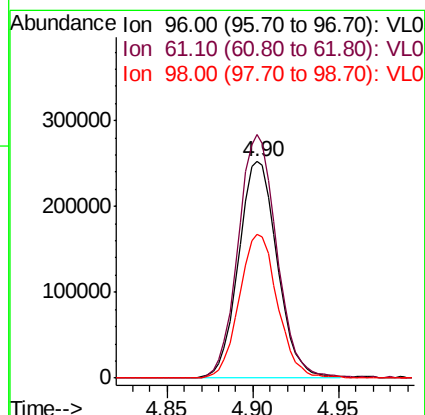
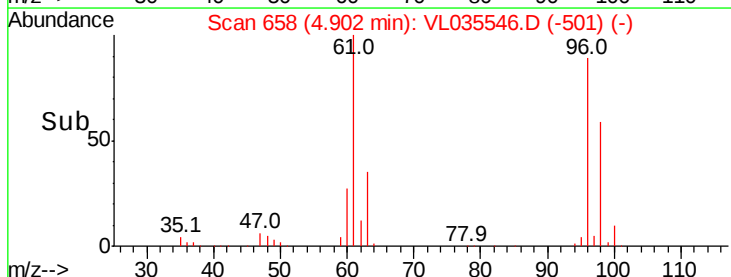
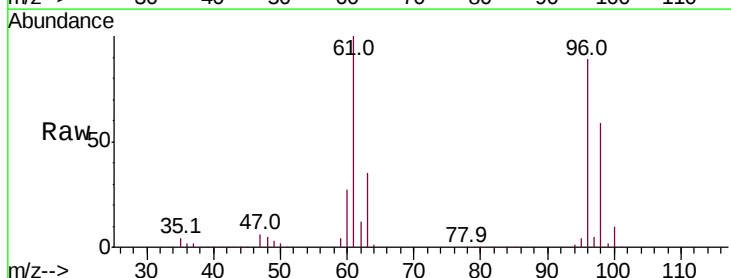
RT: 4.90 min Scan# 658

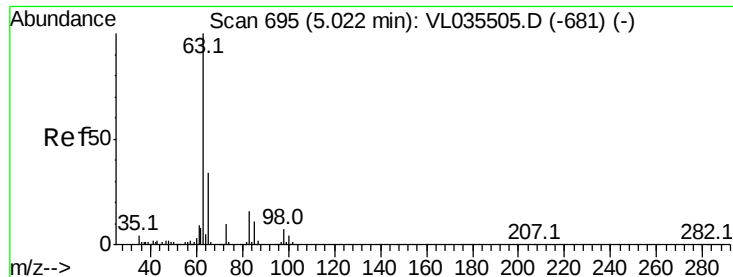
Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Tgt Ion:	96	Resp:	396637
Ion Ratio	Lower	Upper	
96	100		
61	112.6	86.0	129.0
98	66.8	52.3	78.5





#24

1,1-Dichloroethane

Concen: 3.174 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

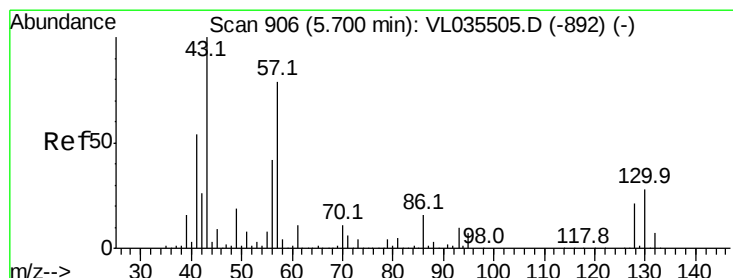
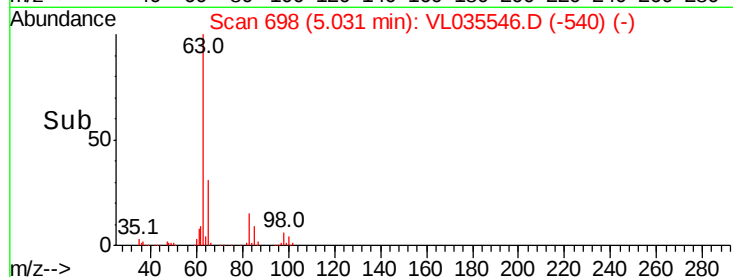
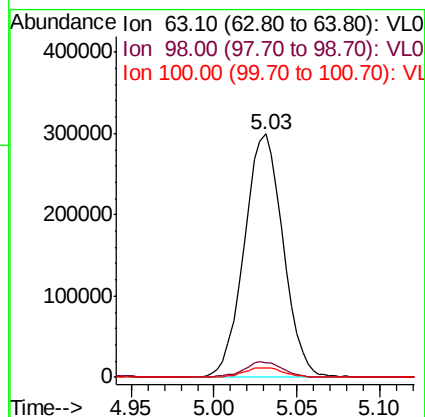
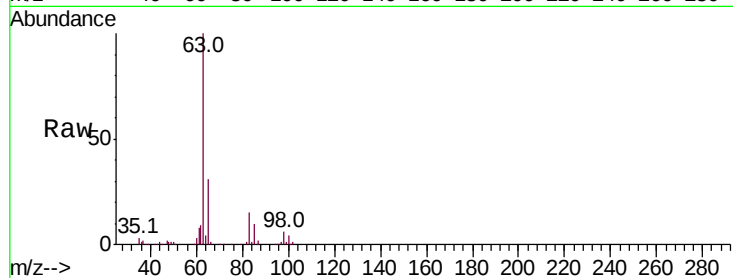
ClientSampleId :

SS-5

Tot Ion:	63	Resp:	487406
Ion Ratio	Lower	Upper	
63	100		
98	6.1	3.4	10.1
100	4.1	2.1	6.5

Manual Integrations
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#26

Hexane

Concen: 0.267 ppbv

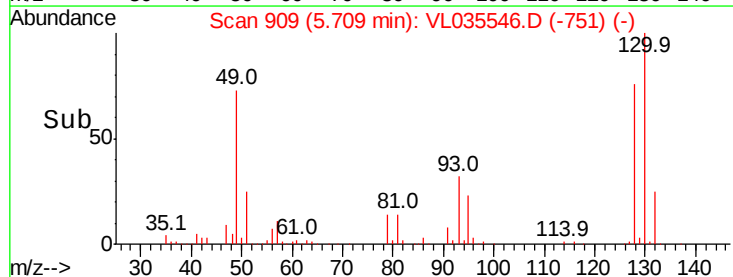
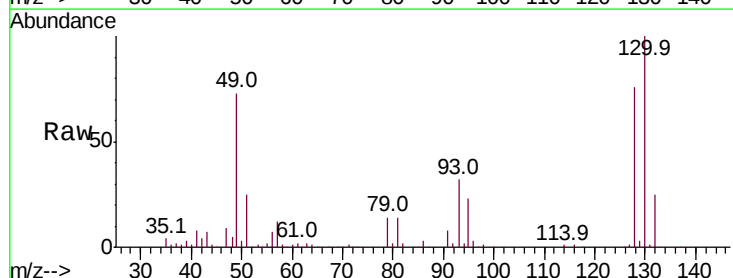
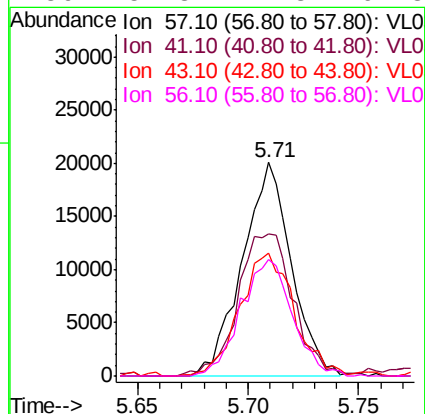
RT: 5.71 min Scan# 909

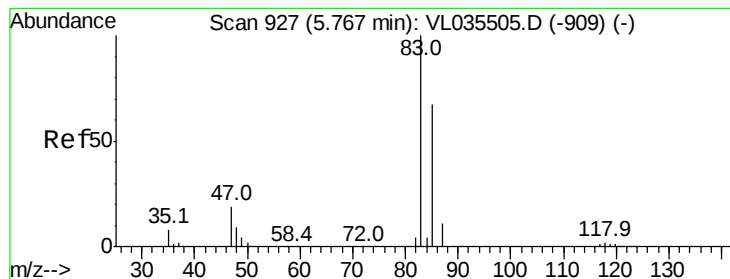
Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Tgt Ion:	57	Resp:	31051
Ion Ratio	Lower	Upper	
57	100		
41	75.1	55.9	83.9
43	64.7	141.8	212.8#
56	57.3	41.8	62.8





#29

Chloroform

Concen: 1.746 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 83 Resp: 414149

Ion Ratio Lower Upper

83 100

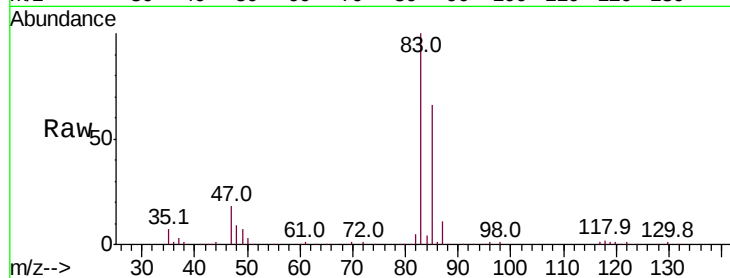
85 66.0 53.9 80.9

Manual Integrations

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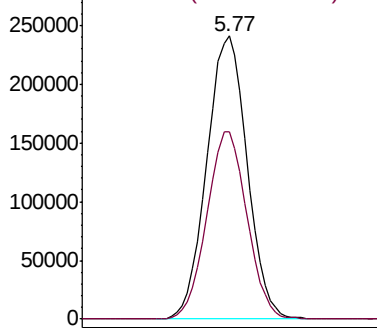
MMDadoda

9/8/2020 5:13:05 PM

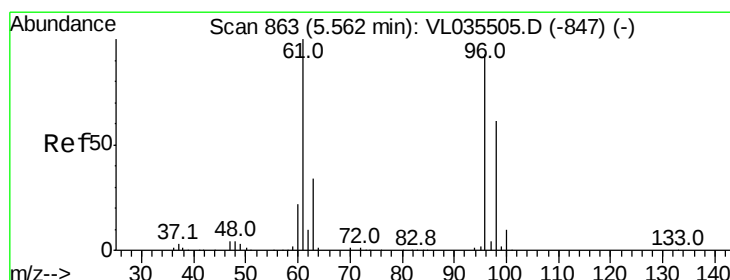
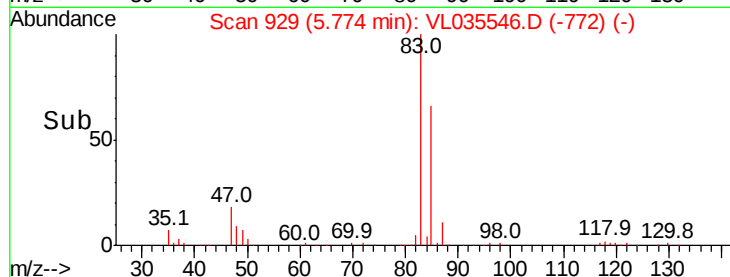


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#31

cis-1,2-Dichloroethene

Concen: 53.371 ppbv

RT: 5.57 min Scan# 865

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

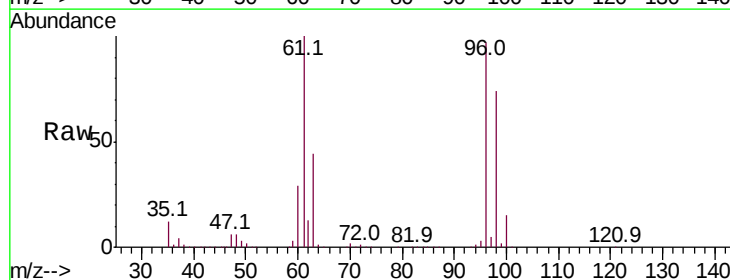
Tgt Ion: 61 Resp: 6372808

Ion Ratio Lower Upper

61 100

96 96.8 74.4 111.6

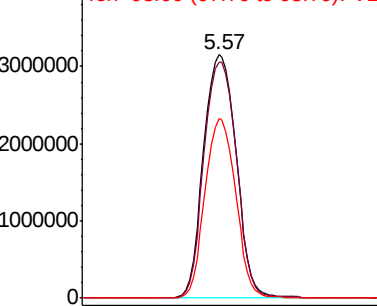
98 73.7 49.2 73.8



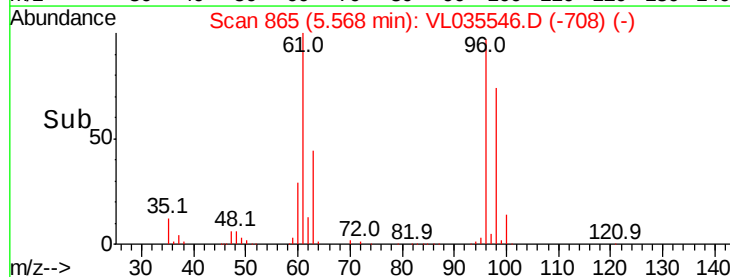
Abundance Ion 61.10 (60.80 to 61.80): VL0

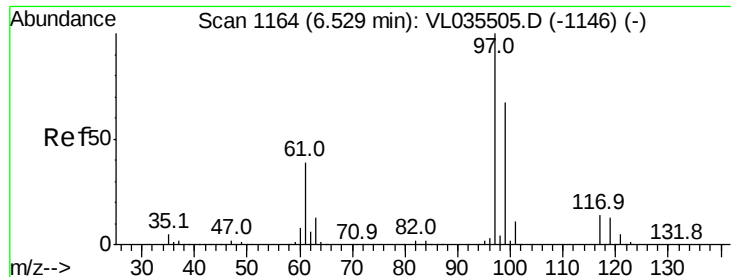
Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



Time-->





#32

1,1,1-Trichloroethane

Concen: 3.275 ppbv

RT: 6.54 min Scan# 1167

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

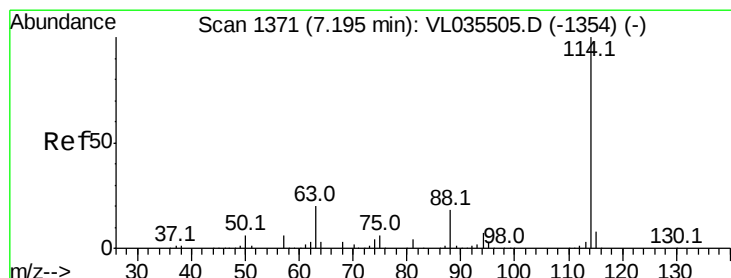
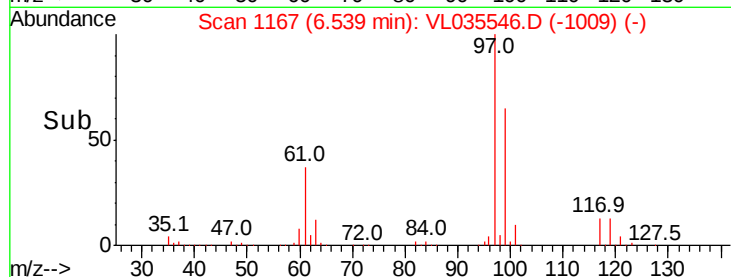
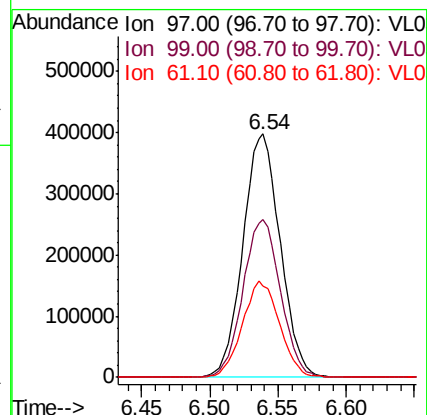
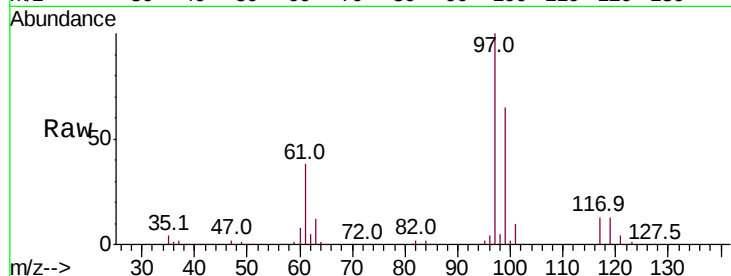
ClientSampled :

SS-5

Tot Ion:	97	Resp:	753385
Ion Ratio	Lower	Upper	
97	100		
99	65.4	53.3	79.9
61	39.4	30.6	46.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

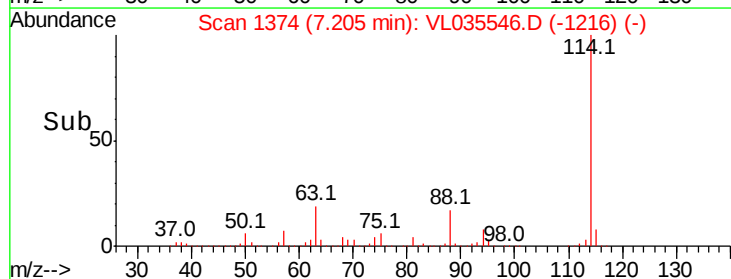
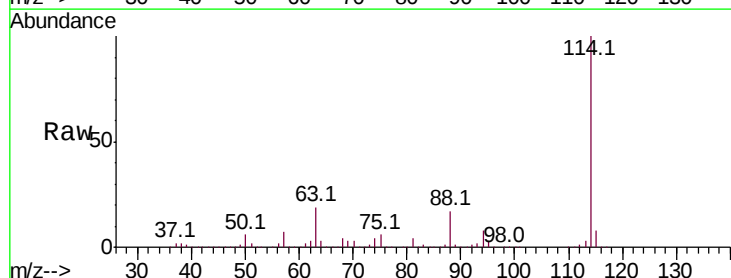
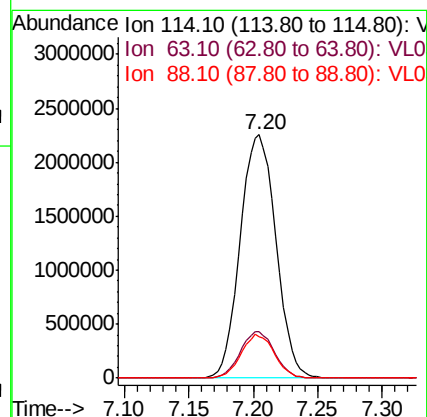
RT: 7.20 min Scan# 1374

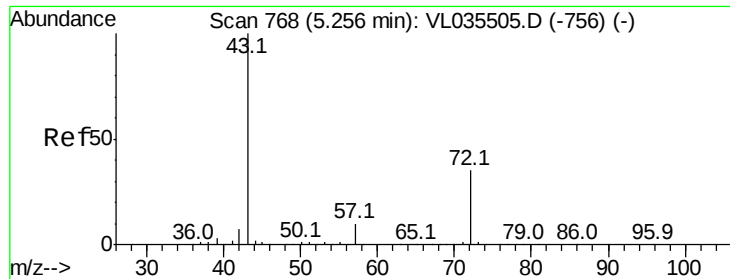
Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Tgt Ion:	114	Resp:	4357093
Ion Ratio	Lower	Upper	
114	100		
63	18.3	14.7	22.1
88	16.8	13.4	20.2





#34

2-Butanone

Concen: 0.100 ppbv m

RT: 5.29 min Scan# 778

Delta R.T. 0.03 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 43 Resp: 12881

Ion Ratio Lower Upper

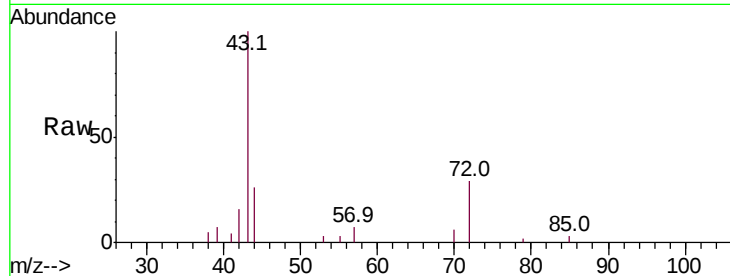
43 100

72 30.7 27.7 41.5

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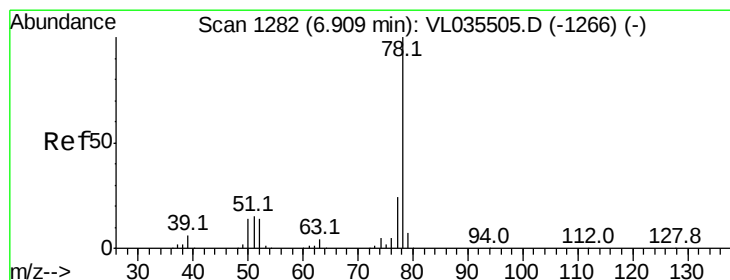
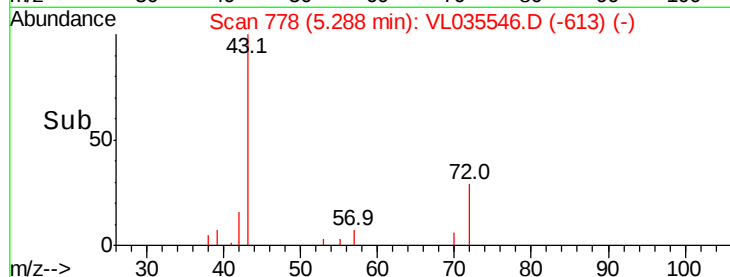
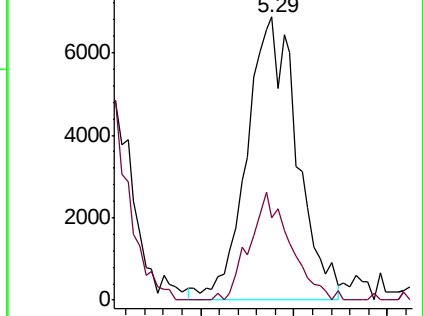
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.141 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

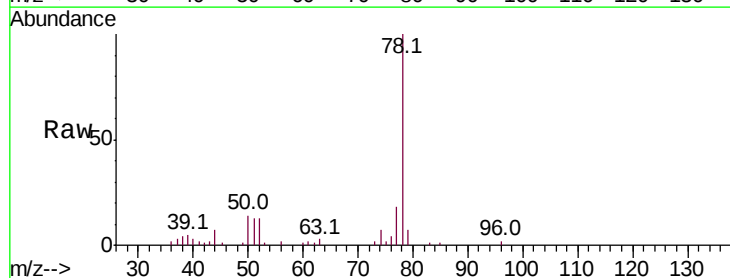
Tgt Ion: 78 Resp: 39857

Ion Ratio Lower Upper

78 100

77 17.1 19.3 28.9#

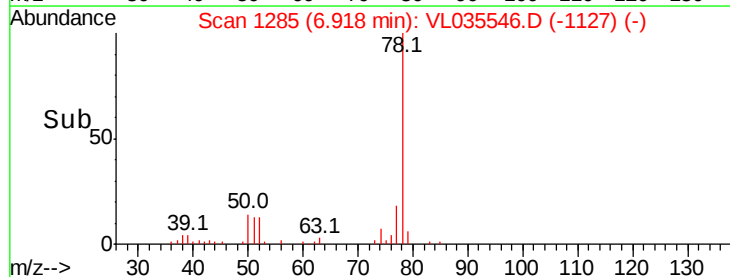
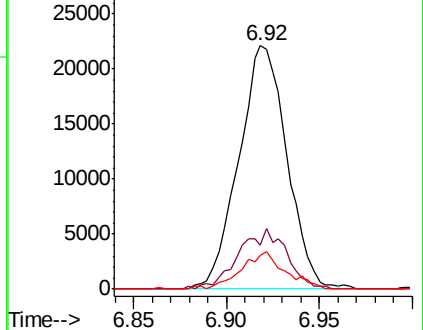
50 13.8 11.0 16.6

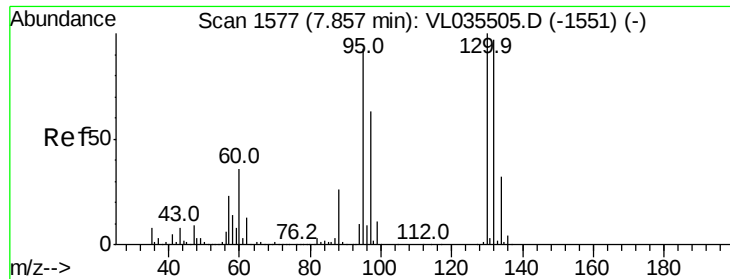


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





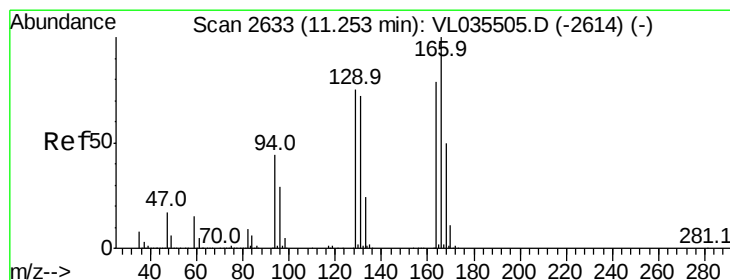
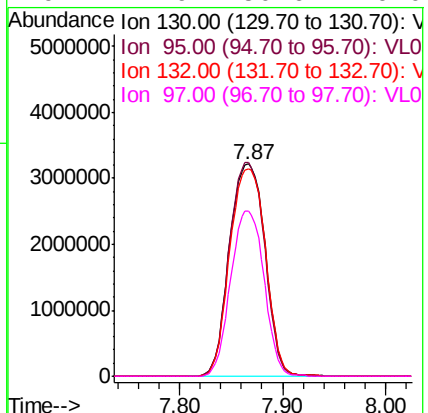
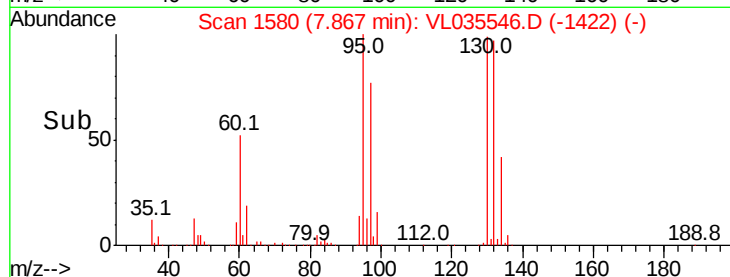
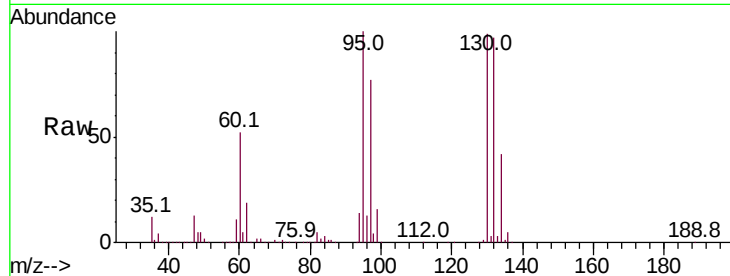
#38
 Trichloroethene
 Concen: 47.495 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VL035546.D
 Acq: 4 Sep 2020 1:09

Instrument :
 MSVOA_L
 ClientSampled :
 SS-5

Tot Ion:130 Resp: 7781141
 Ion Ratio Lower Upper
 130 100
 95 100.5 74.6 112.0
 132 97.8 77.6 116.4
 97 77.9 50.6 76.0#

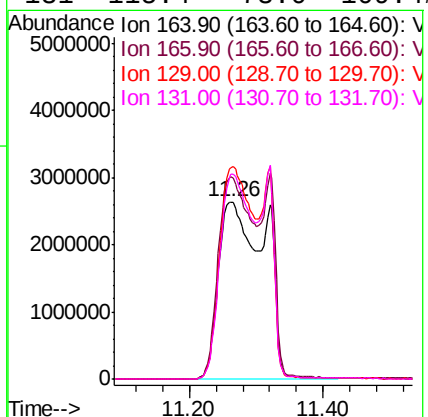
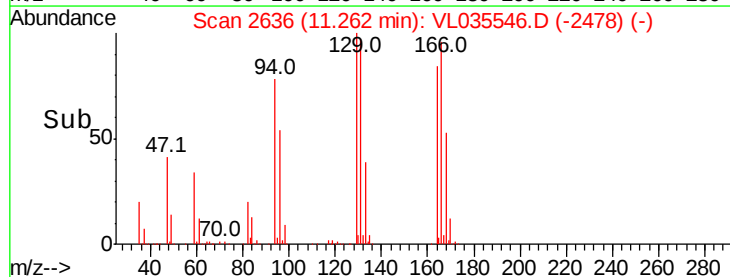
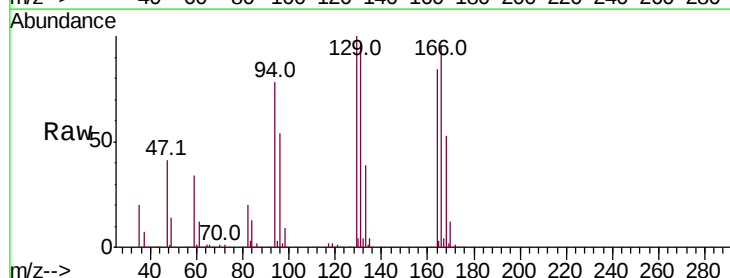
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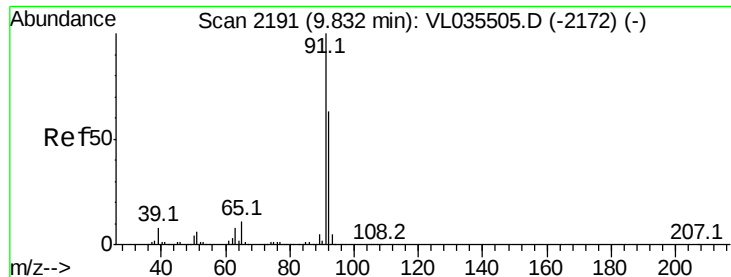
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#52
 Tetrachloroethene
 Concen: 77.227 ppbv m
 RT: 11.26 min Scan# 2636
 Delta R.T. 0.01 min
 Lab File: VL035546.D
 Acq: 4 Sep 2020 1:09

Tgt Ion:164 Resp:12724466
 Ion Ratio Lower Upper
 164 100
 166 114.1 100.9 151.3
 129 119.4 75.3 112.9#
 131 115.4 73.0 109.4#





#53

Toluene

Concen: 0.115 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion: 91 Resp: 40660

Ion Ratio Lower Upper

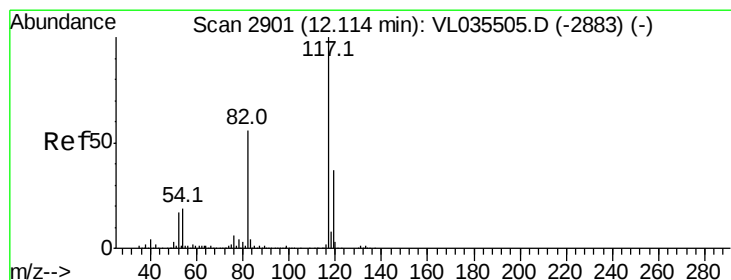
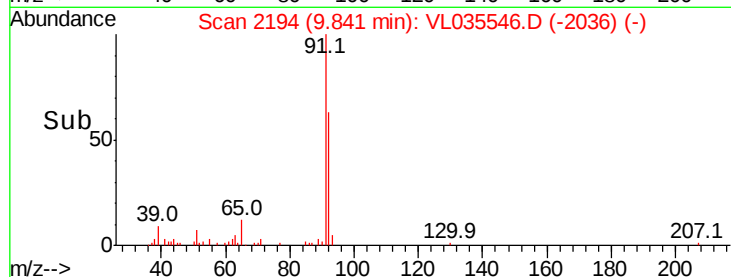
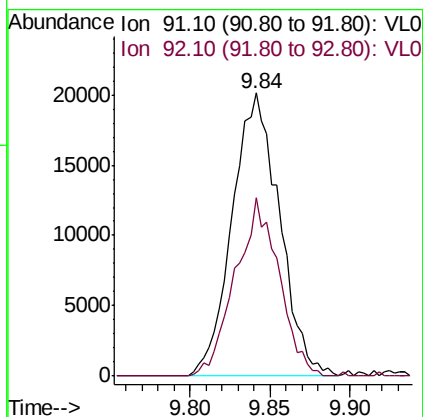
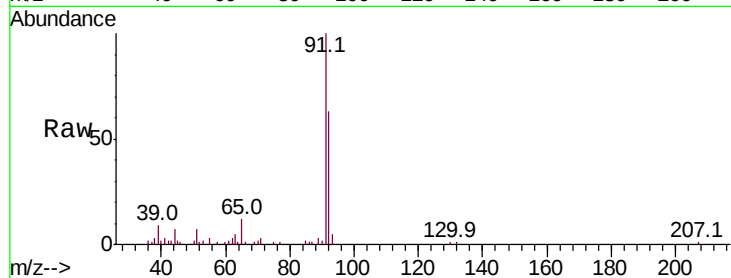
91 100

92 58.0 49.8 74.8

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. 0.02 min

Lab File: VL035546.D

Acq: 4 Sep 2020 1:09

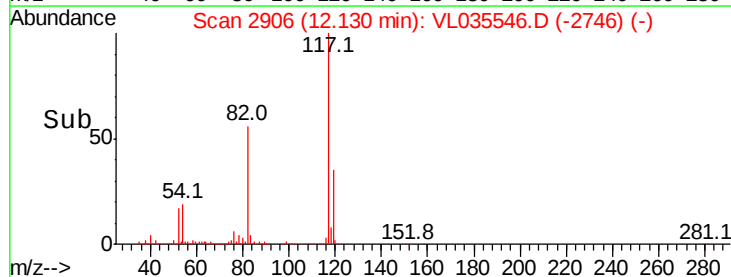
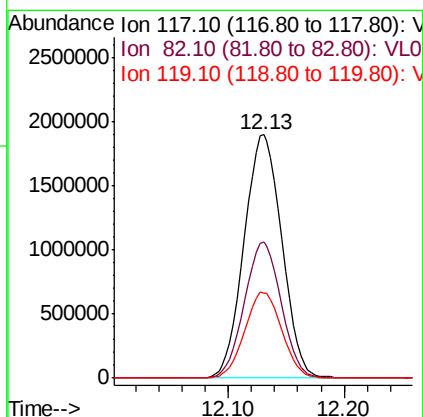
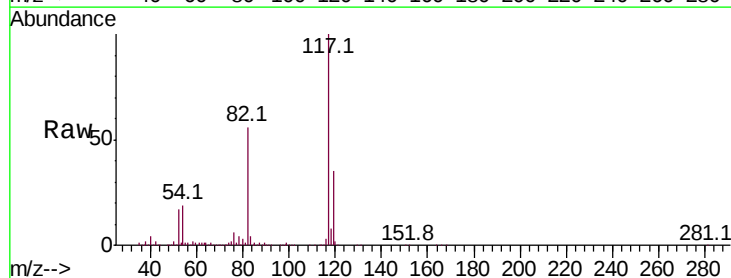
Tgt Ion: 117 Resp: 4307673

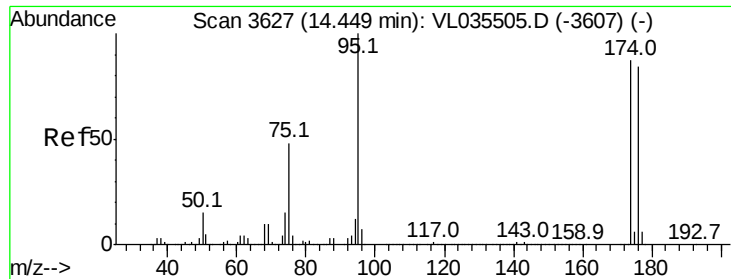
Ion Ratio Lower Upper

117 100

82 54.8 41.6 62.4

119 34.8 29.3 43.9





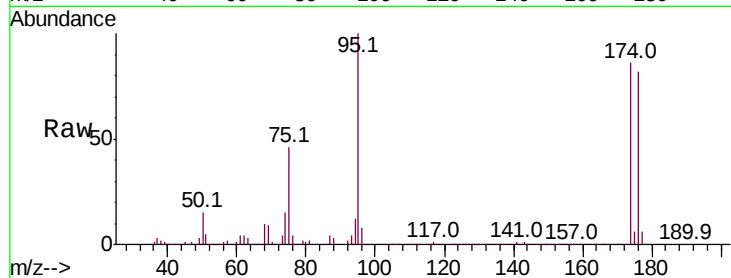
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.292 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL035546.D
 Acq: 4 Sep 2020 1:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5

Tot Ion	Ratio	Lower	Upper
95	100		
174	86.0	69.6	104.4
175	6.2	5.1	7.7

Manual Integrations
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Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

