

Data File : VL035672.D
Acq On : 18 Sep 2020 1:10
Operator : SY/AP
Sample : L3983-01DL2 1200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL

Quant Time: Sep 18 02:36:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1089112	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4118538	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4102672	10.00	ppbv	0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 2988843 10.26 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.60%

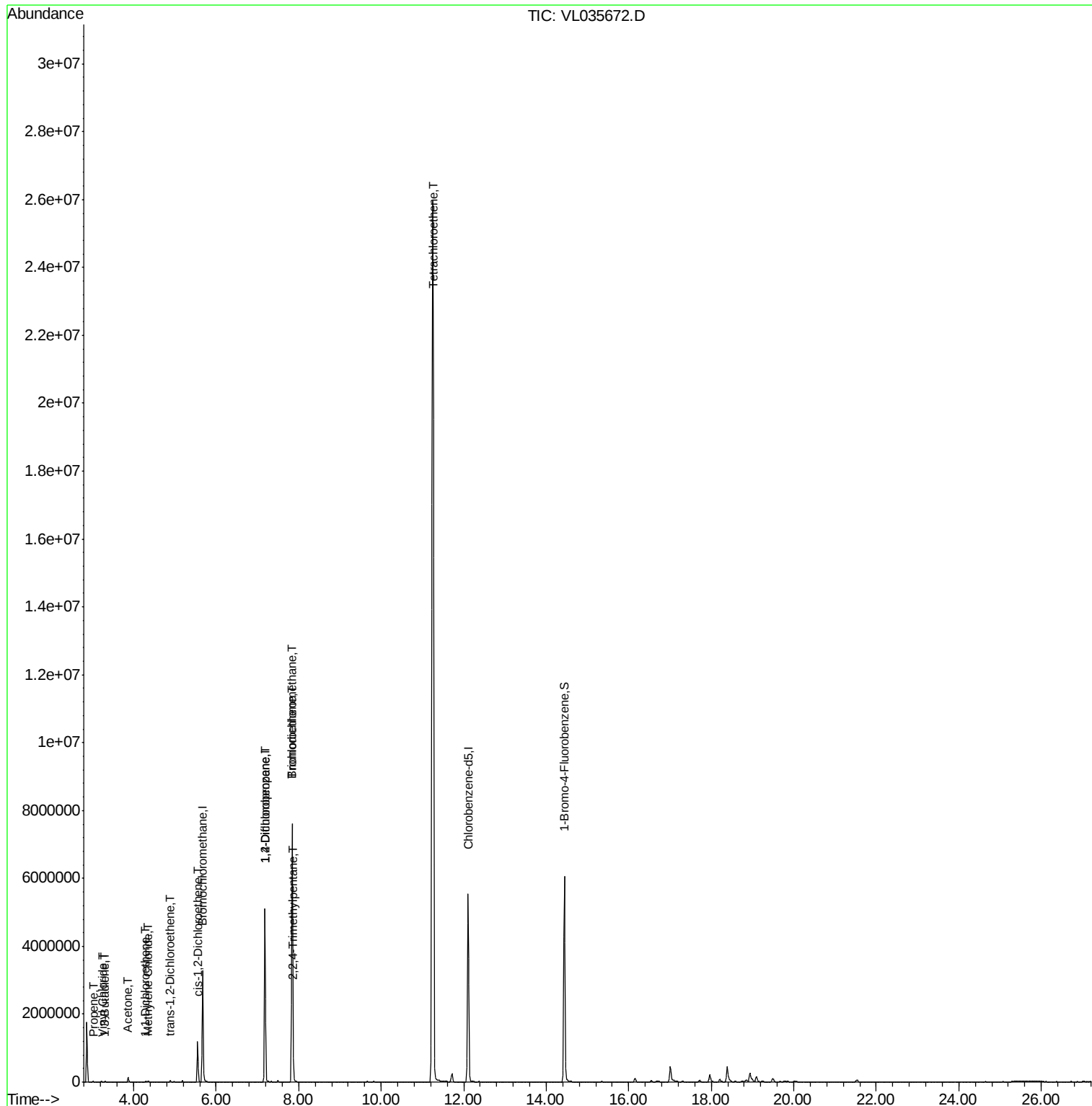
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.25	62	3263	0.041	ppbv #	69
9) Propene	3.01	41	3567	0.077	ppbv #	14
15) Acetone	3.86	43	133277	1.110	ppbv	94
16) 1,3-Butadiene	3.31	39	6054	0.135	ppbv #	6
18) 1,1-Dichloroethene	4.29	96	9566	0.105	ppbv	93
20) Methylene Chloride	4.35	84	14082	0.157	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	7675	0.079	ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	547613	4.439	ppbv	96
38) Trichloroethene	7.84	130	2647989	17.099	ppbv	95
39) 1,2-Dichloropropane	7.18	63	792870	8.804	ppbv #	31
42) Bromodichloromethane	7.84	83	32083	0.156	ppbv #	82
44) 2,2,4-Trimethylpentane	7.88	57	54057	0.154	ppbv #	91
52) Tetrachloroethene	11.25	164	4832666	31.029	ppbv #	79

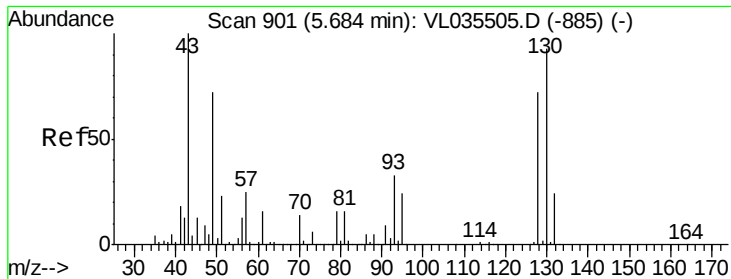
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035672.D

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Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

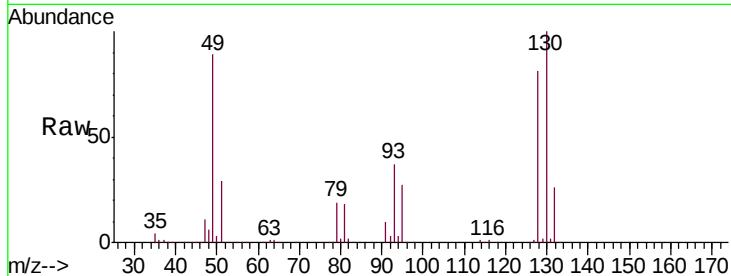
Tgt Ion: 49 Resp: 1089112

Ion Ratio Lower Upper

49 100

128 88.6 50.0 150.1

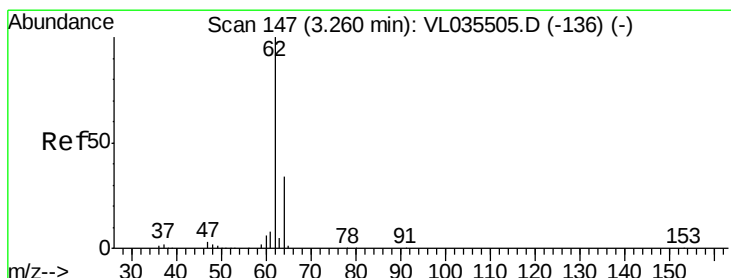
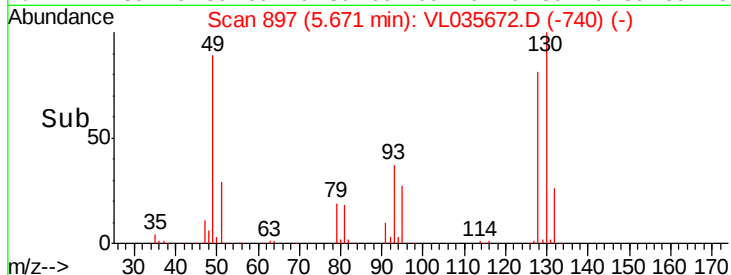
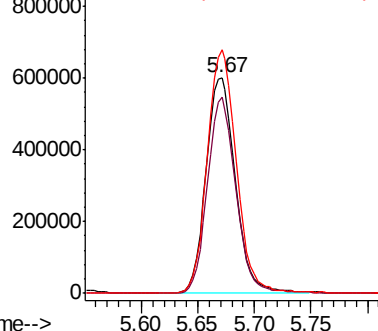
130 112.9 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.041 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL035672.D

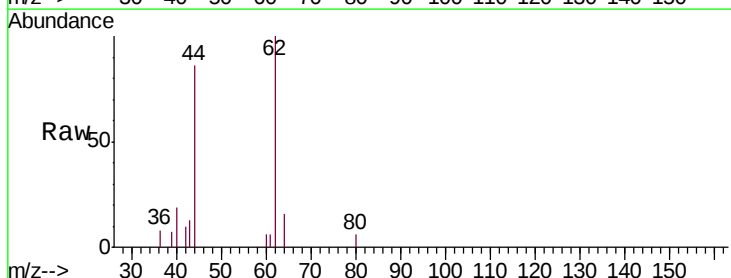
Acq: 18 Sep 2020 1:10

Tgt Ion: 62 Resp: 3263

Ion Ratio Lower Upper

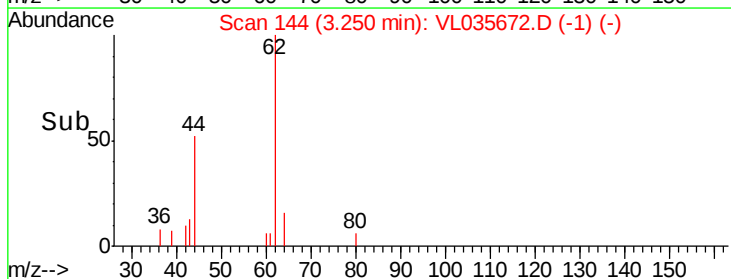
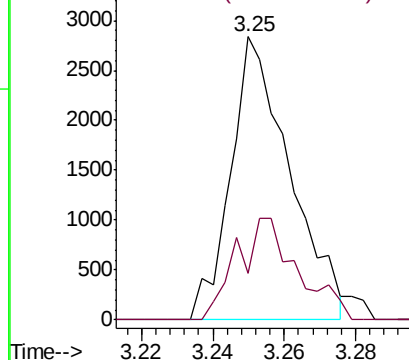
62 100

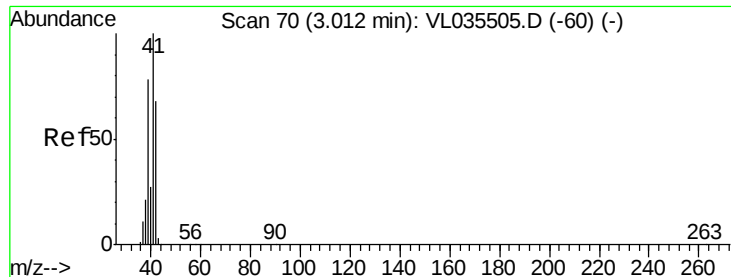
64 16.5 27.4 41.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 0.077 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

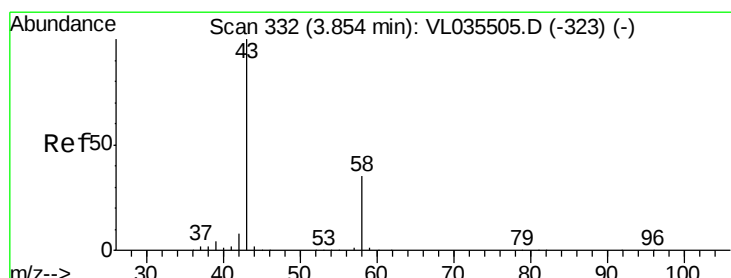
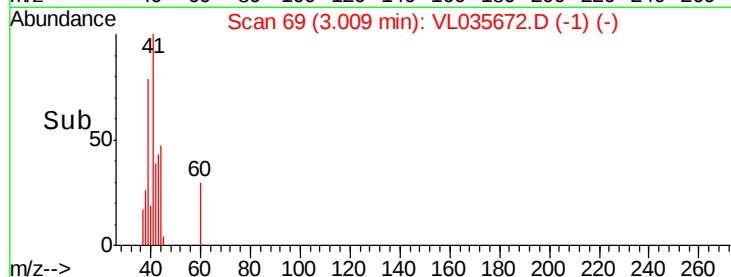
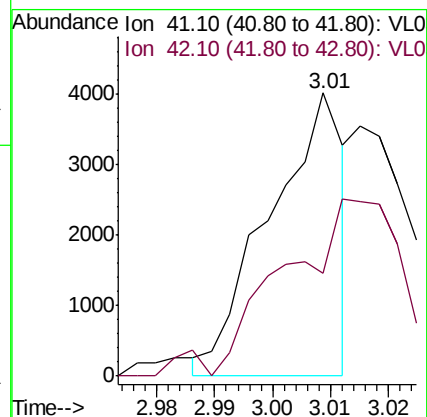
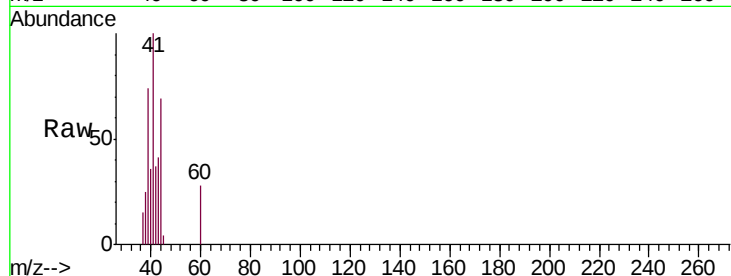
SV-8DL

Tgt Ion: 41 Resp: 3567

Ion Ratio Lower Upper

41 100

42 0.0 56.3 84.5#



#15

Acetone

Concen: 1.110 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL035672.D

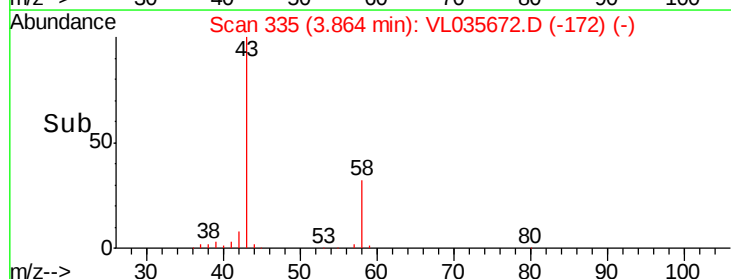
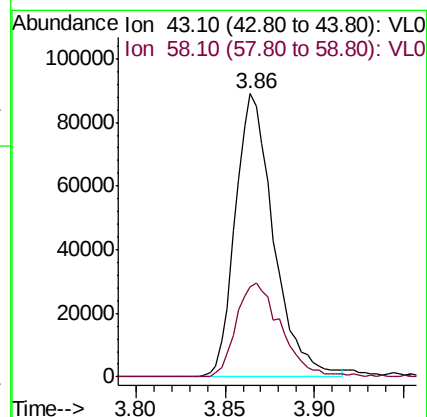
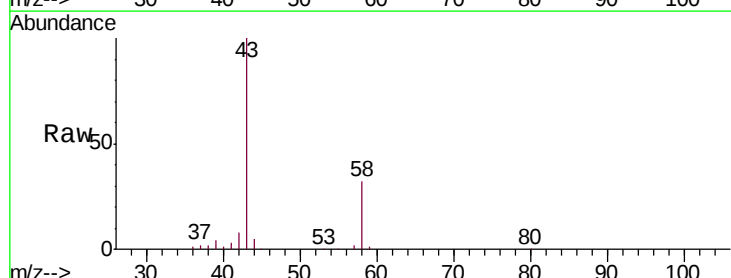
Acq: 18 Sep 2020 1:10

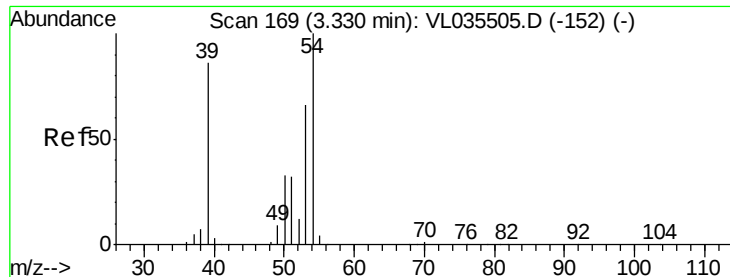
Tgt Ion: 43 Resp: 133277

Ion Ratio Lower Upper

43 100

58 39.1 28.4 42.6





#16

1,3-Butadiene

Concen: 0.135 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

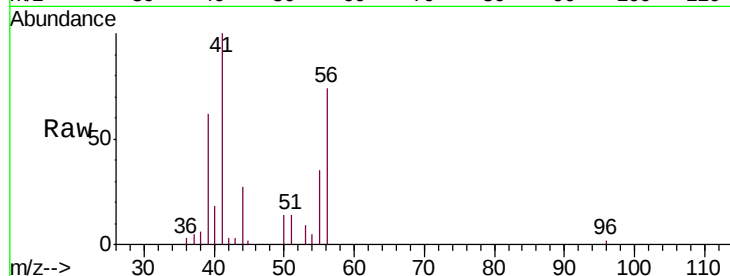
SV-8DL

Tgt Ion: 39 Resp: 6054

Ion Ratio Lower Upper

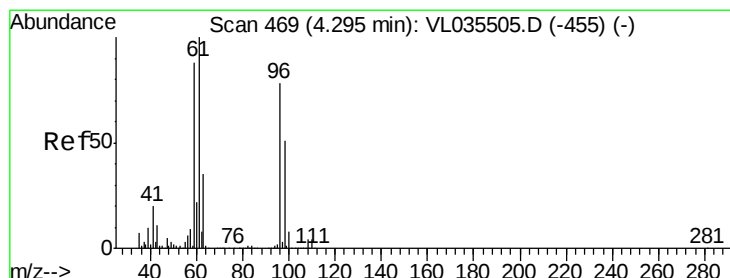
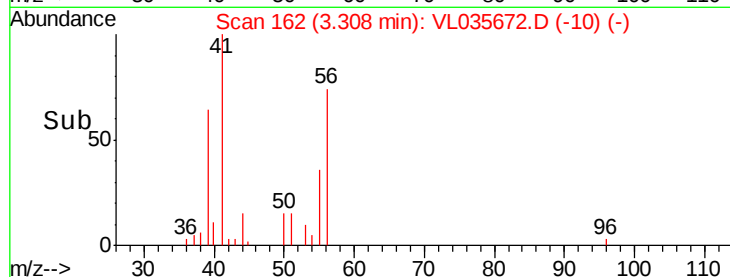
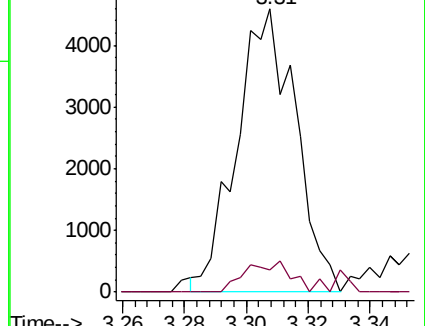
39 100

54 10.7 88.4 132.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#18

1,1-Dichloroethene

Concen: 0.105 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

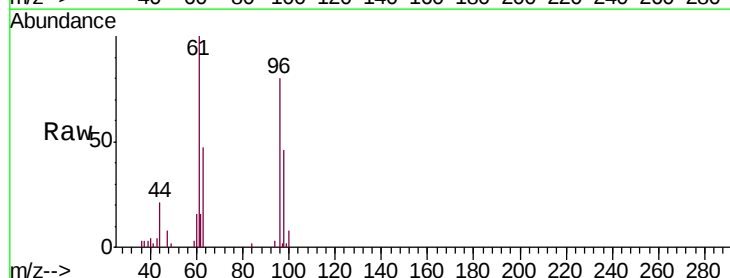
Tgt Ion: 96 Resp: 9566

Ion Ratio Lower Upper

96 100

61 123.5 103.0 154.6

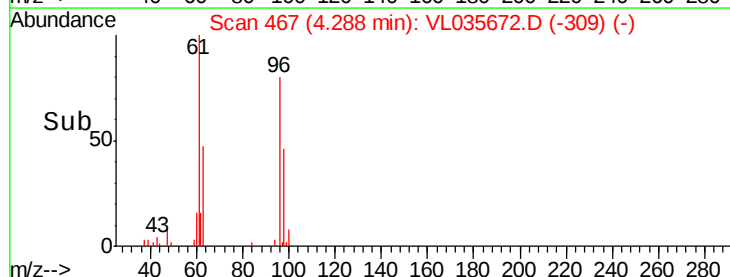
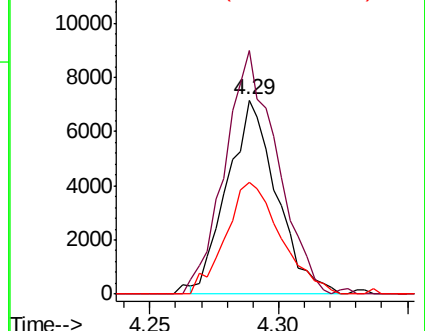
98 57.7 52.8 79.2

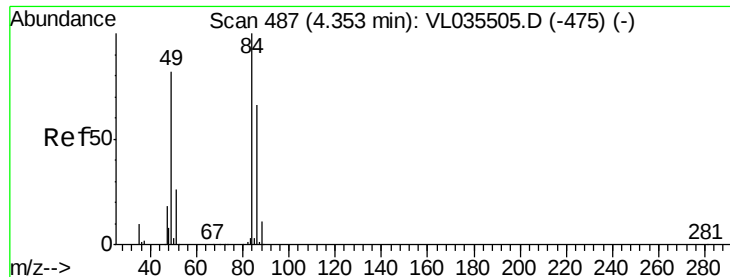


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

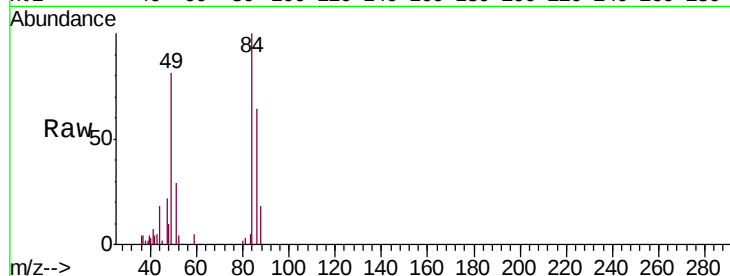




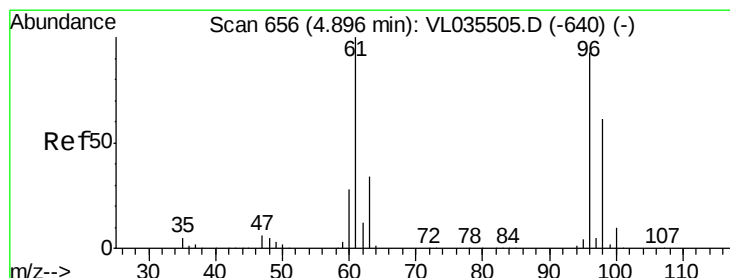
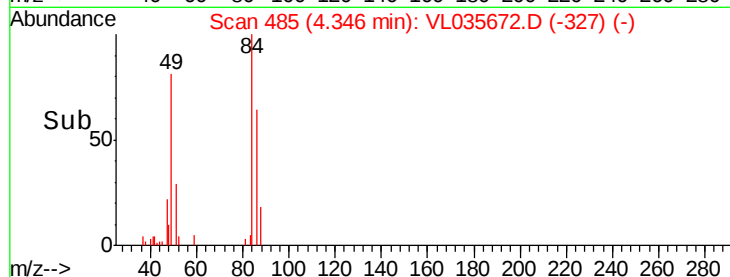
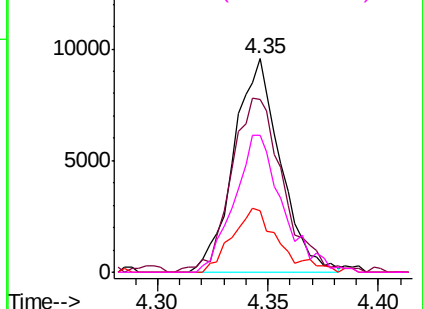
#20
Methylene Chloride
Concen: 0.157 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL035672.D
Acq: 18 Sep 2020 1:10

Instrument :
MSVOA_L
ClientSampled :
SV-8DL

Tgt Ion:	84	Resp:	14082
Ion	Ratio	Lower	Upper
84	100		
49	78.9	65.4	98.0
51	28.6	21.5	32.3
86	64.4	52.9	79.3

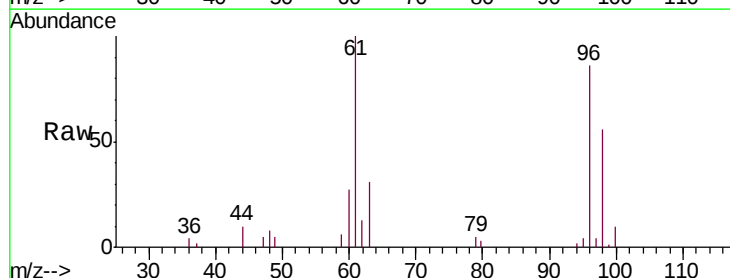


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

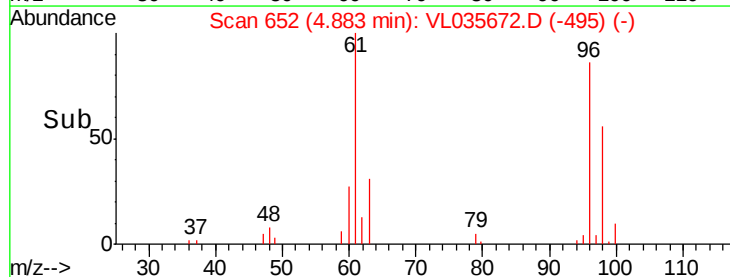
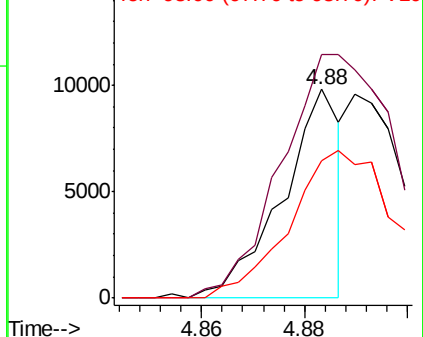


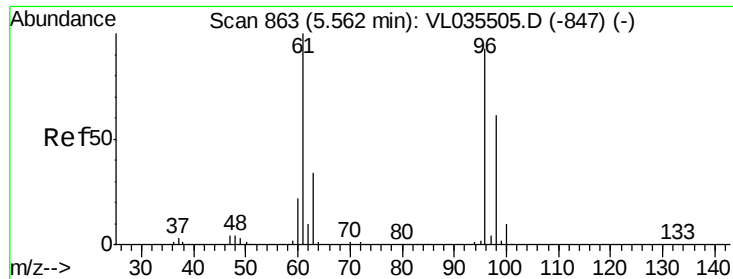
#22
trans-1,2-Dichloroethene
Concen: 0.079 ppbv
RT: 4.88 min Scan# 652
Delta R.T. 0.01 min
Lab File: VL035672.D
Acq: 18 Sep 2020 1:10

Tgt Ion:	96	Resp:	7675
Ion	Ratio	Lower	Upper
96	100		
61	116.4	86.0	129.0
98	65.5	52.3	78.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



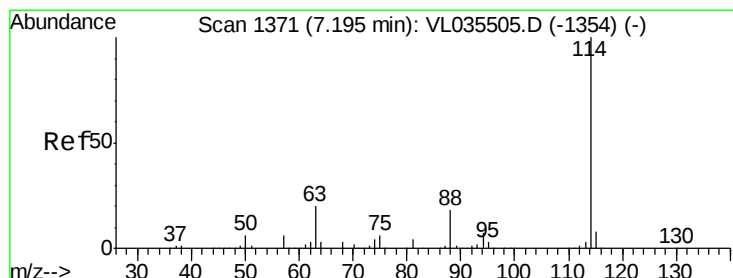
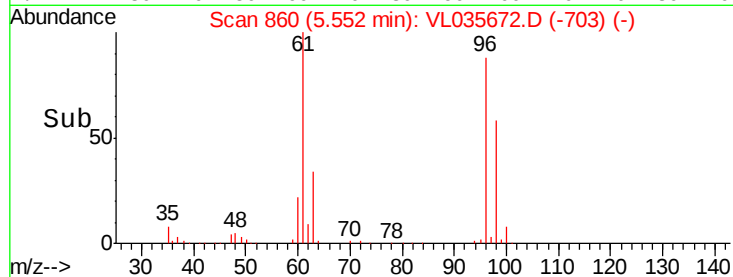
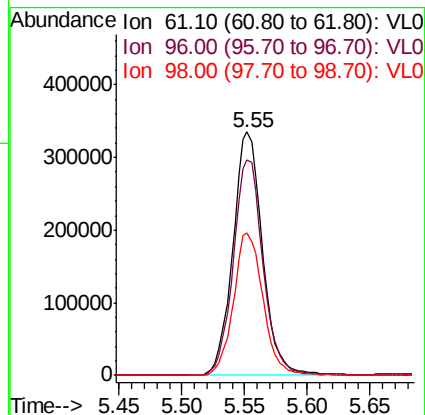
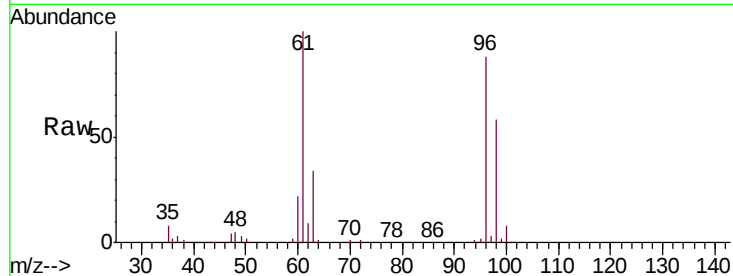


#31

cis-1,2-Dichloroethene
 Concen: 4.439 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. 0.01 min
 Lab File: VL035672.D
 Acq: 18 Sep 2020 1:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL

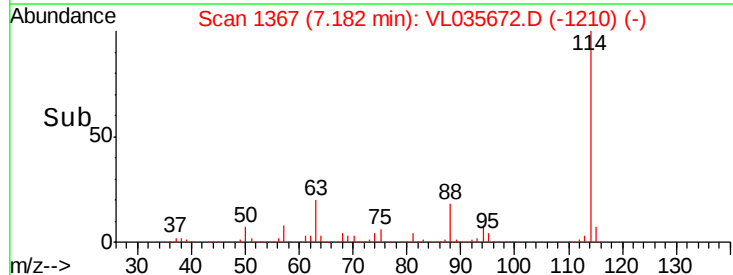
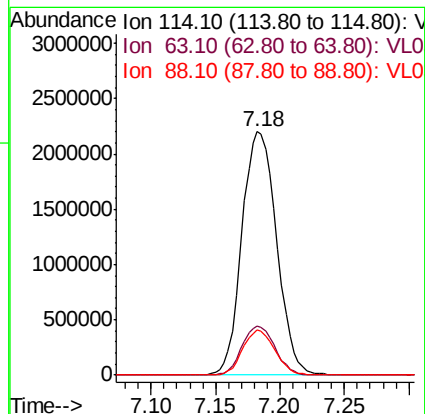
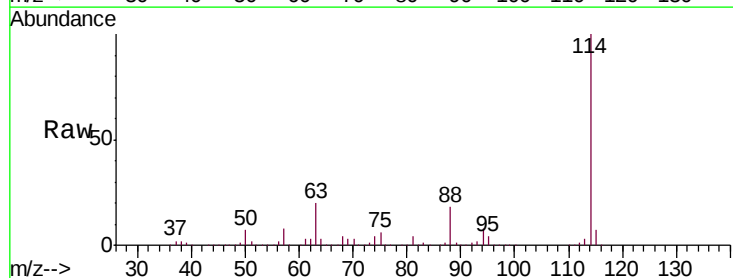
Tgt Ion: 61 Resp: 547613
 Ion Ratio Lower Upper
 61 100
 96 88.5 74.4 111.6
 98 58.3 49.2 73.8

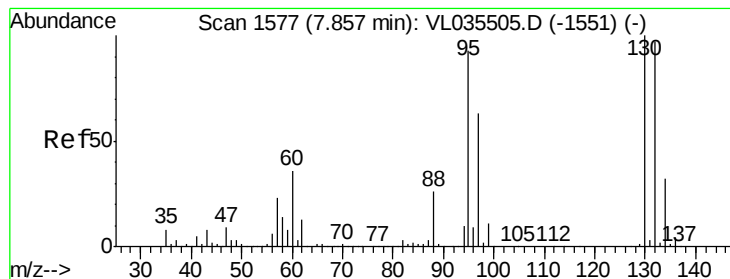


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL035672.D
 Acq: 18 Sep 2020 1:10

Tgt Ion: 114 Resp: 4118538
 Ion Ratio Lower Upper
 114 100
 63 19.3 14.7 22.1
 88 17.3 13.4 20.2





#38

Trichloroethene

Concen: 17.099 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

Tgt Ion:130 Resp: 2647989

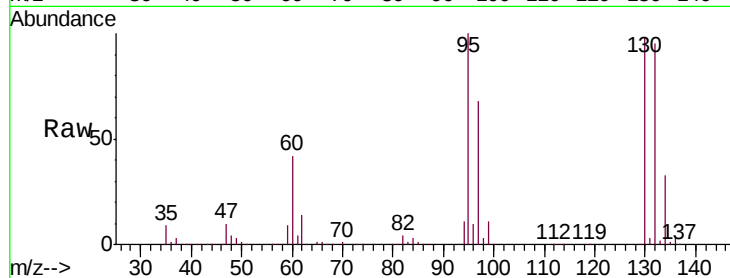
Ion Ratio Lower Upper

130 100

95 102.4 74.6 112.0

132 97.0 77.6 116.4

97 69.2 50.6 76.0

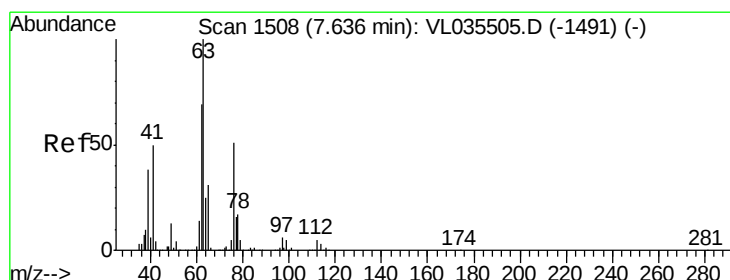
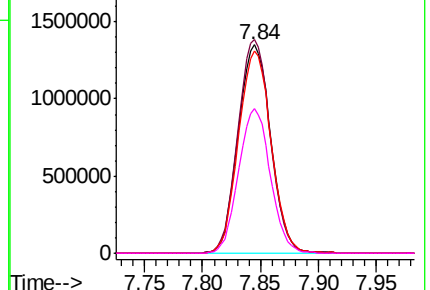
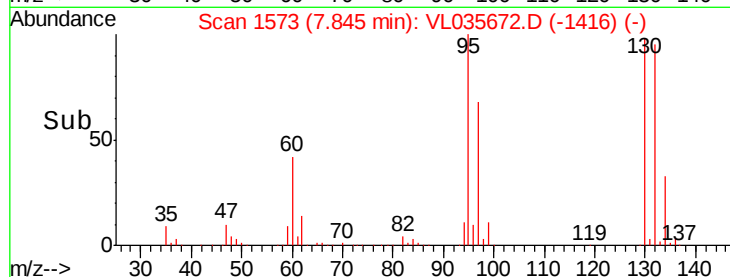


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.804 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.43 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

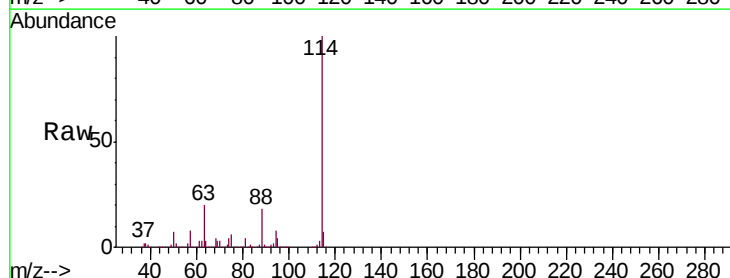
Tgt Ion: 63 Resp: 792870

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

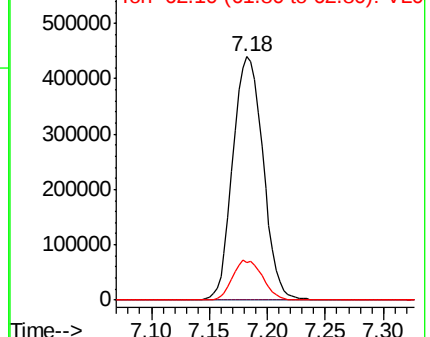
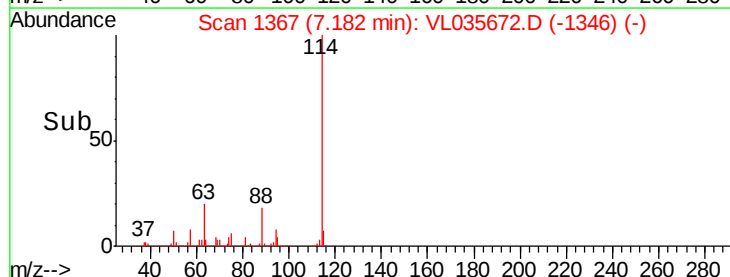
62 15.5 55.4 83.0#

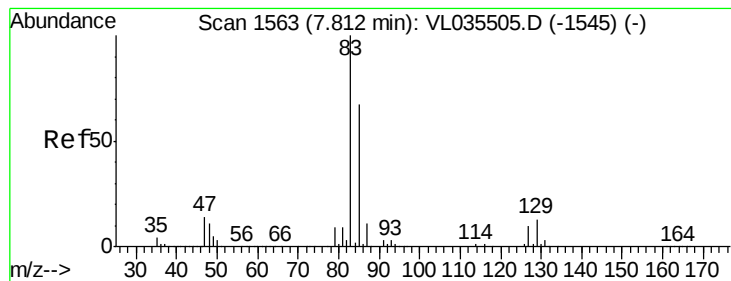


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.156 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.04 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

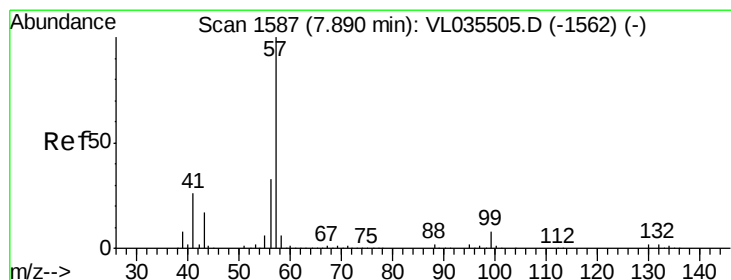
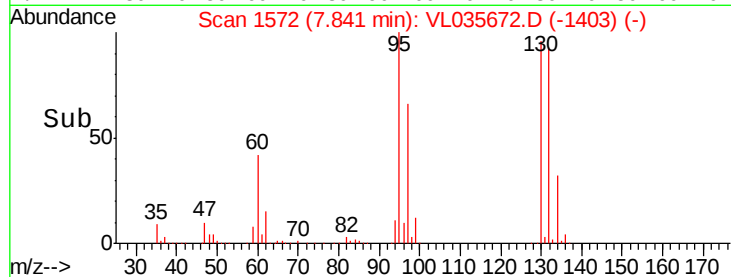
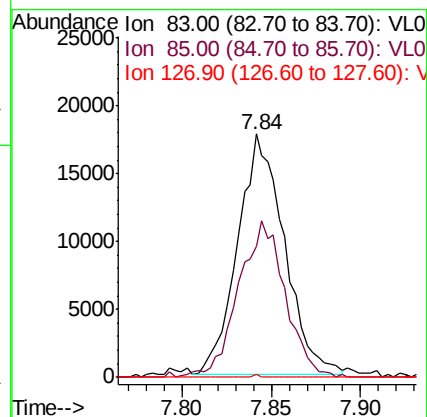
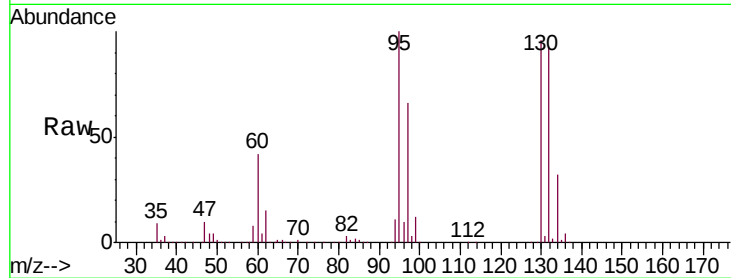
Tgt Ion: 83 Resp: 32083

Ion Ratio Lower Upper

83 100

85 53.5 53.7 80.5#

127 1.2 8.1 12.1#



#44

2,2,4-Trimethylpentane

Concen: 0.154 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

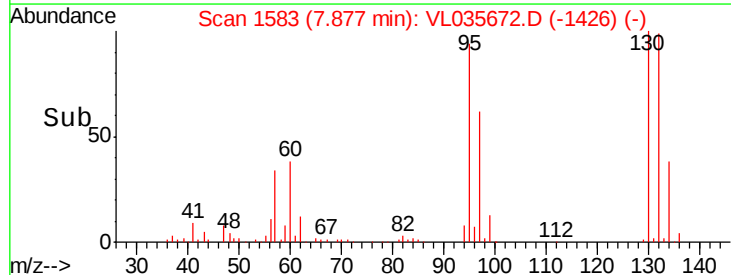
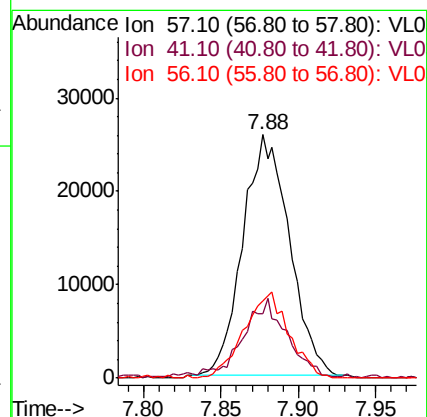
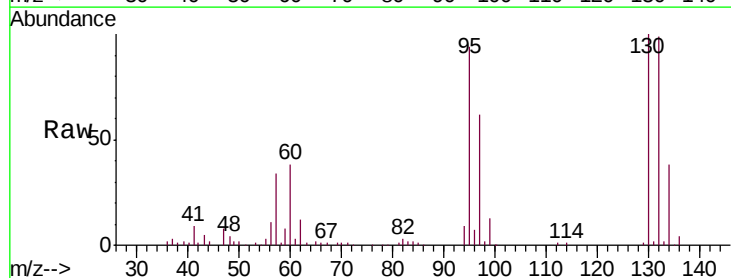
Tgt Ion: 57 Resp: 54057

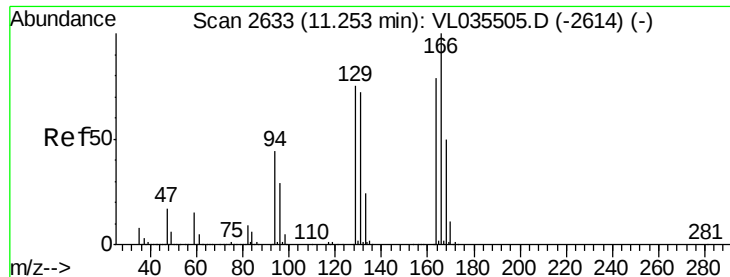
Ion Ratio Lower Upper

57 100

41 32.8 20.5 30.7#

56 34.3 25.3 37.9





#52

Tetrachloroethene

Concen: 31.029 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. 0.02 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

Tgt Ion:164 Resp: 4832666

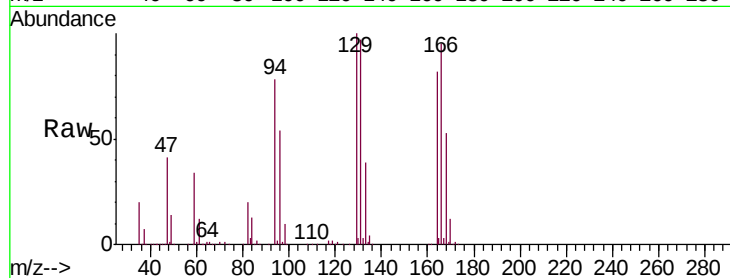
Ion Ratio Lower Upper

164 100

166 115.7 100.9 151.3

129 121.9 75.3 112.9#

131 118.4 73.0 109.4#



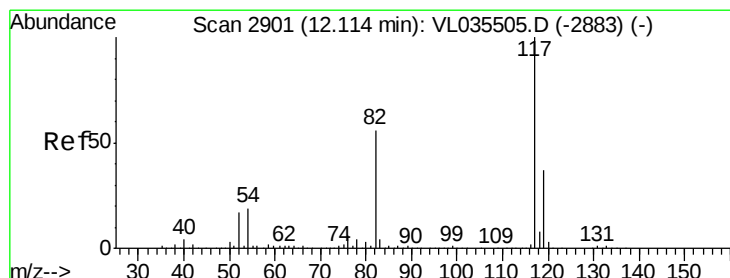
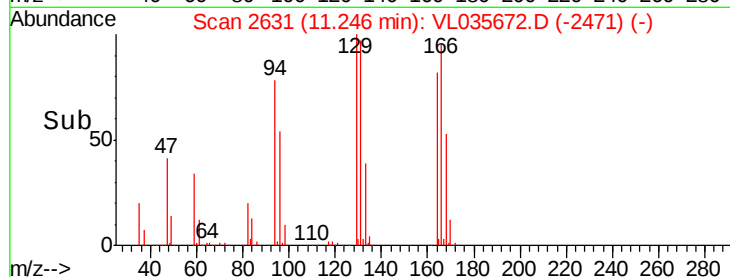
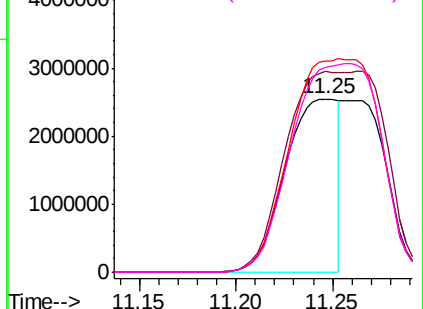
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

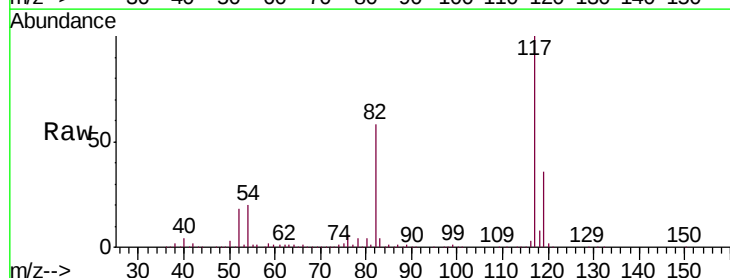
Tgt Ion:117 Resp: 4102672

Ion Ratio Lower Upper

117 100

82 57.3 41.6 62.4

119 34.3 29.3 43.9

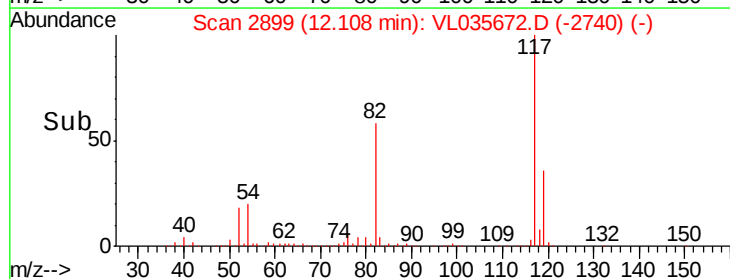
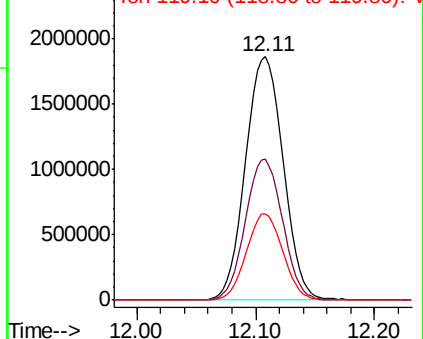


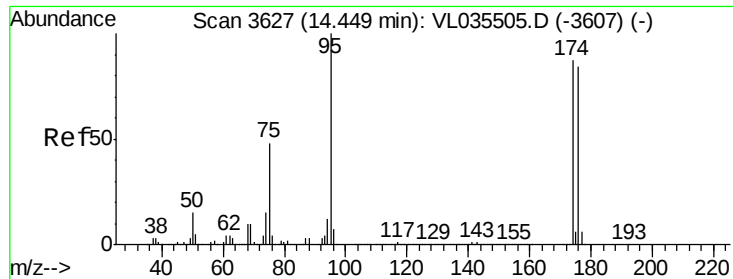
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.259 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. 0.01 min

Lab File: VL035672.D

Acq: 18 Sep 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

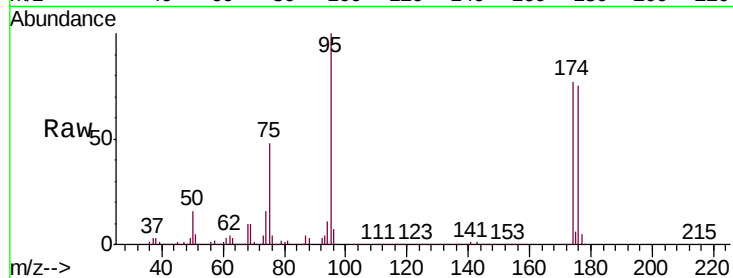
Tgt Ion: 95 Resp: 2988843

Ion Ratio Lower Upper

95 100

174 79.0 69.6 104.4

175 5.7 5.1 7.7



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

