

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035646.D
 Acq On : 17 Sep 2020 2:57
 Operator : SY/AP
 Sample : L3983-03DL2 80X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9DL2

Quant Time: Sep 17 07:11:06 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	5.66	49	1164470	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4485472	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4523487	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3351635	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

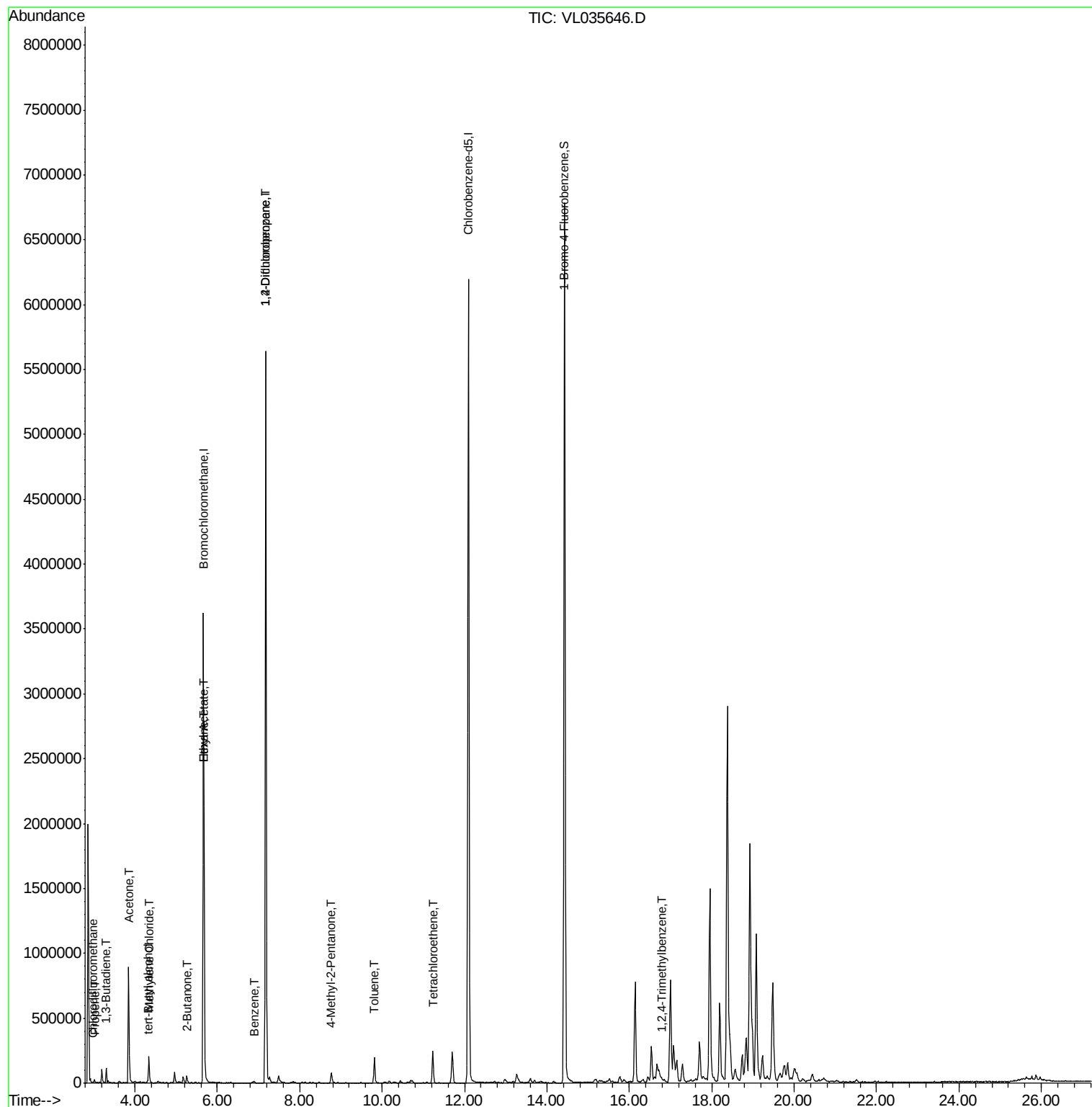
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	4683	0.036	ppbv #	86
9) Propene	3.01	41	5671	0.114	ppbv	87
15) Acetone	3.85	43	848985	6.610	ppbv	100
16) 1,3-Butadiene	3.31	39	23344	0.488	ppbv #	7
17) tert-Butyl alcohol	4.31	59	10806	0.069	ppbv #	92
20) Methylene Chloride	4.34	84	87974	0.920	ppbv	96
25) Ethyl Acetate	5.69	43	15293	0.067	ppbv #	75
26) Hexane	5.69	57	24458	0.190	ppbv #	46
34) 2-Butanone	5.26	43	49459	0.372	ppbv	99
36) Benzene	6.89	78	11168	0.038	ppbv #	90
39) 1,2-Dichloropropane	7.18	63	875424	8.925	ppbv #	32
50) 4-Methyl-2-Pentanone	8.77	43	52701	0.273	ppbv	94
52) Tetrachloroethene	11.23	164	65579	0.387	ppbv	98
53) Toluene	9.81	91	165298	0.453	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	22609	0.045	ppbv #	63

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

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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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Instrument :

MSVOA_L

ClientSampleId :

SV-9DL2

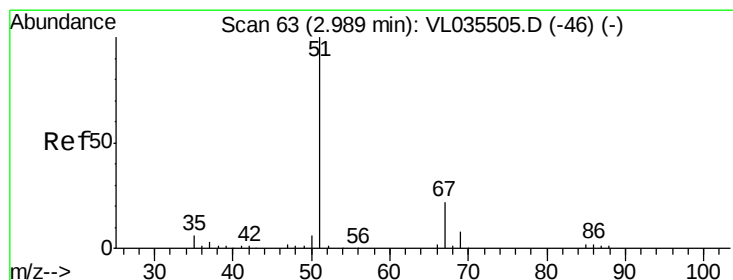
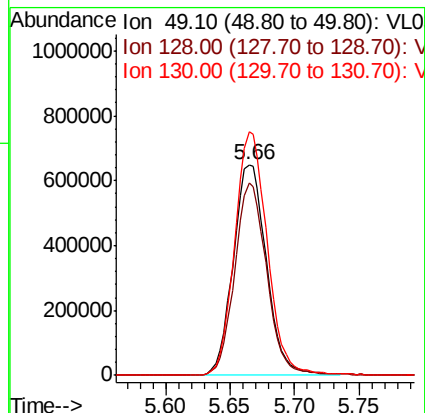
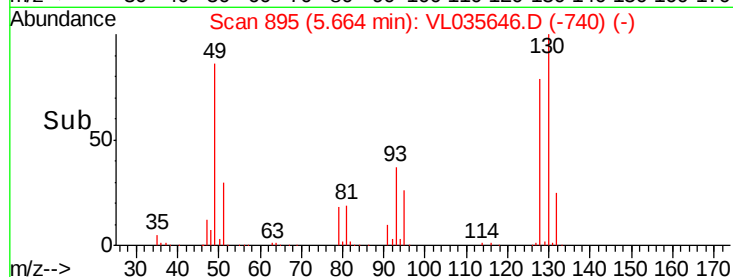
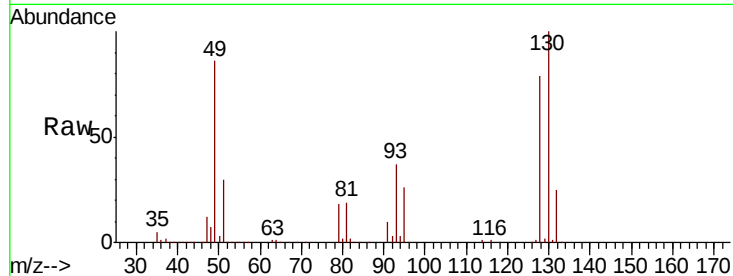
Tot Ion: 49 Resp: 1164470

Ion Ratio Lower Upper

49 100

128 88.7 50.0 150.1

130 114.4 64.4 193.2



#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL035646.D

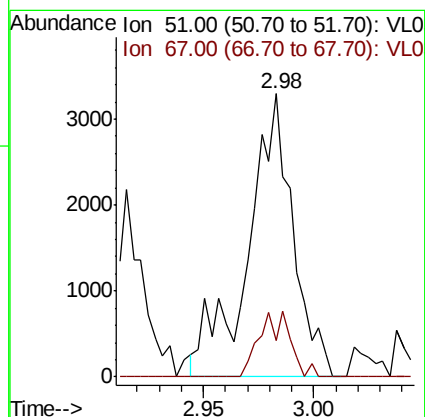
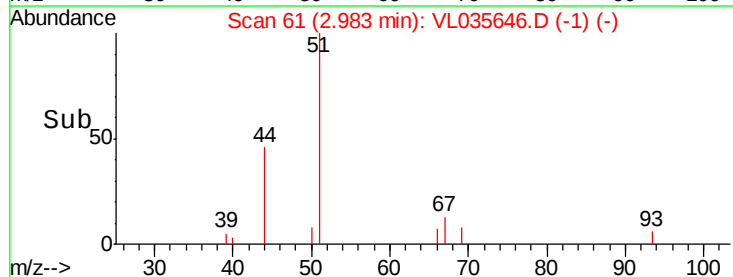
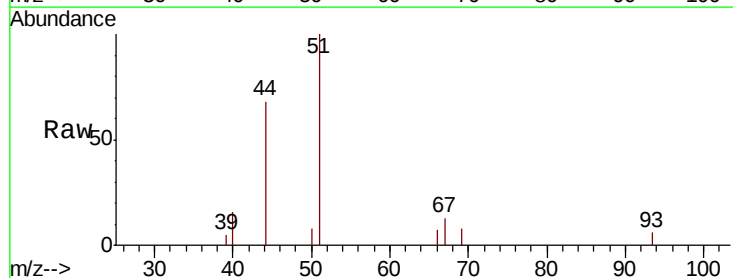
Acq: 17 Sep 2020 2:57

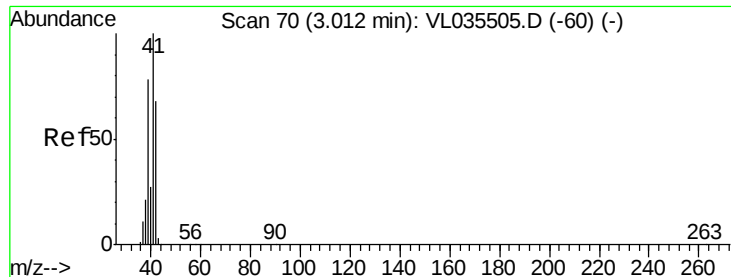
Tgt Ion: 51 Resp: 4683

Ion Ratio Lower Upper

51 100

67 15.7 17.8 26.8#





#9

Propene

Concen: 0.114 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Instrument :

MSVOA_L

ClientSampleID :

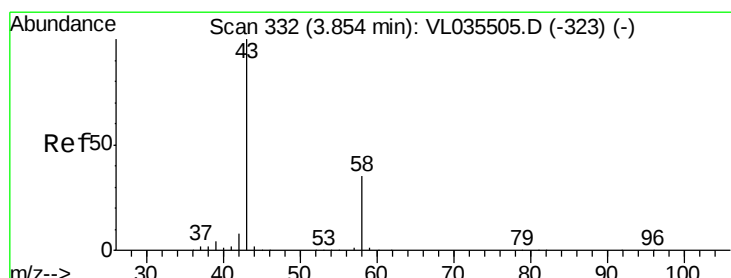
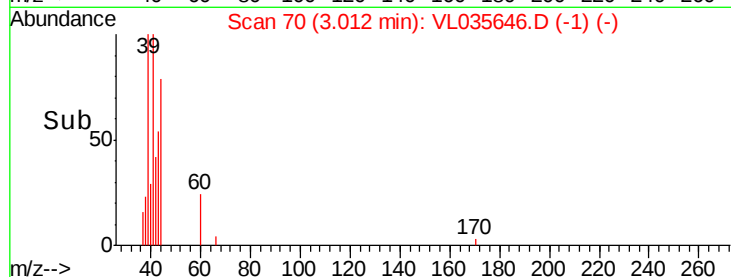
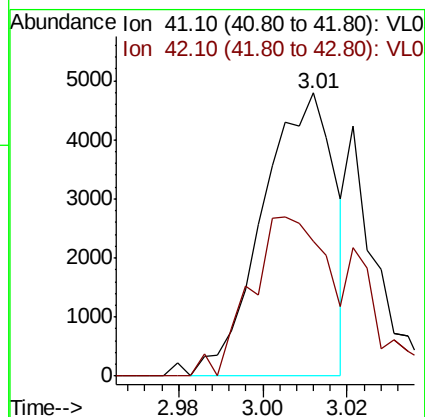
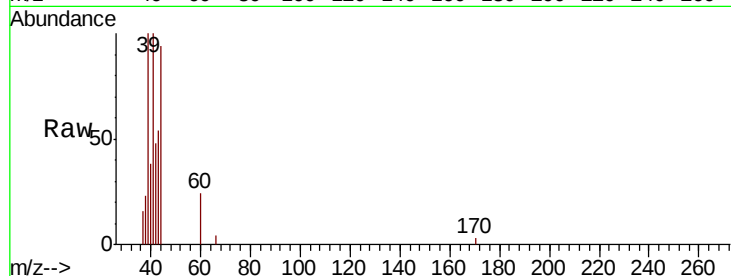
SV-9DL2

Tot Ion: 41 Resp: 5671

Ion Ratio Lower Upper

41 100

42 81.3 56.3 84.5



#15

Acetone

Concen: 6.610 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL035646.D

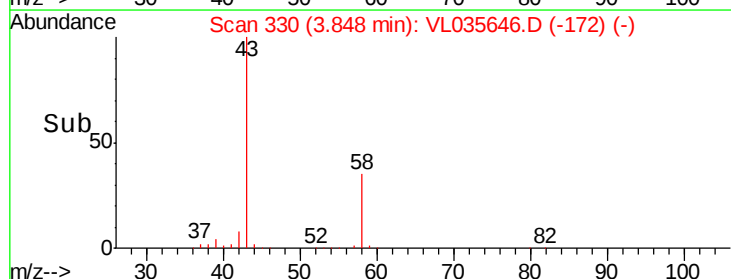
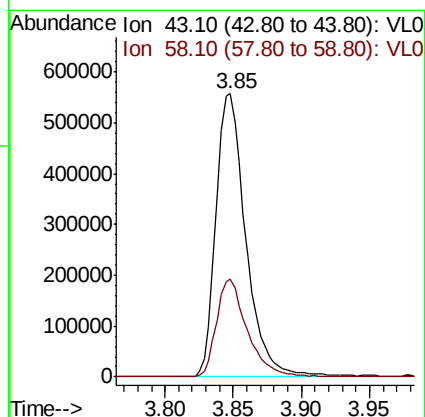
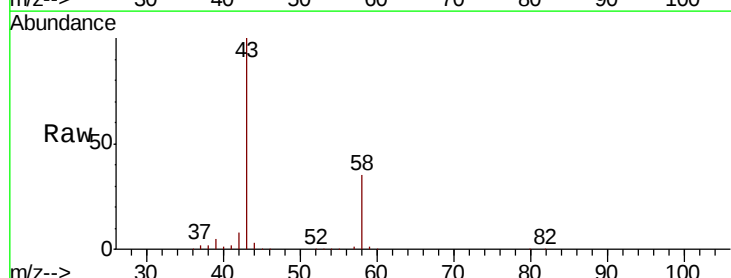
Acq: 17 Sep 2020 2:57

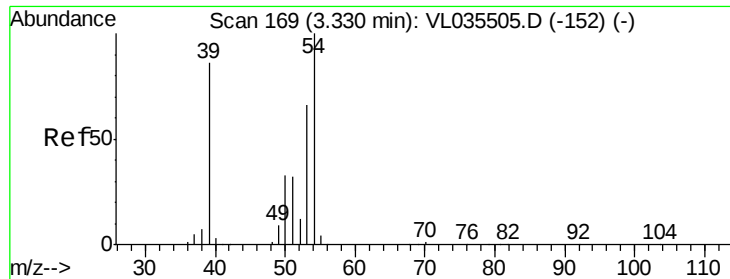
Tgt Ion: 43 Resp: 848985

Ion Ratio Lower Upper

43 100

58 35.6 28.4 42.6

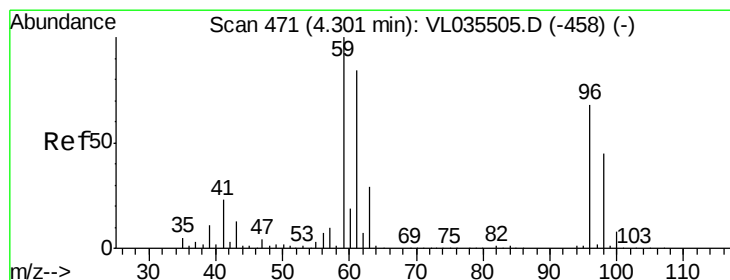
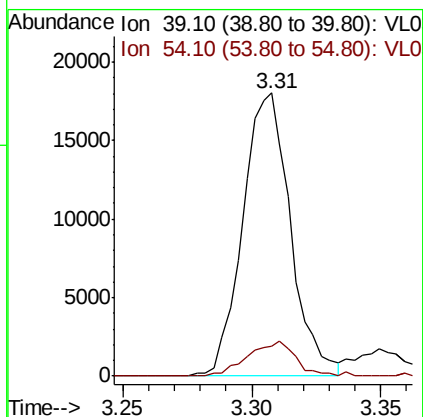
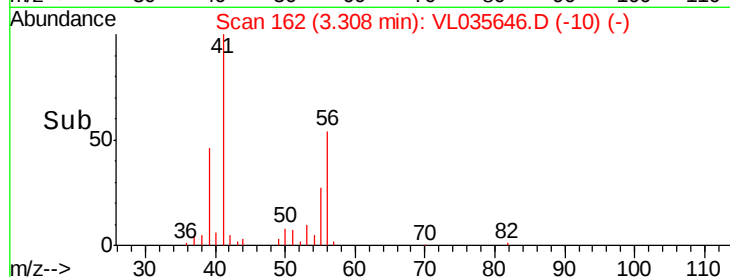
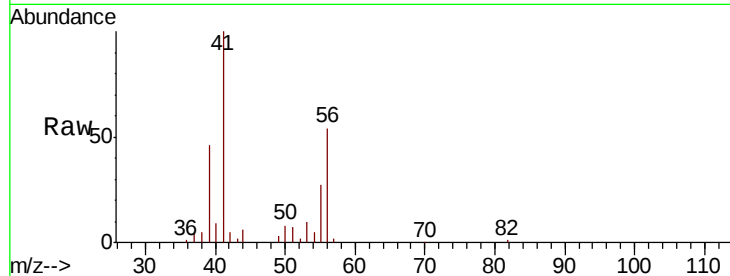




#16
1,3-Butadiene
Concen: 0.488 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.01 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

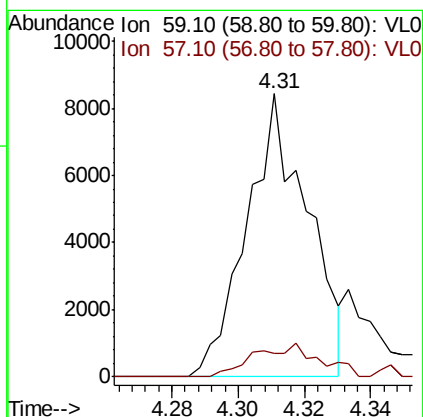
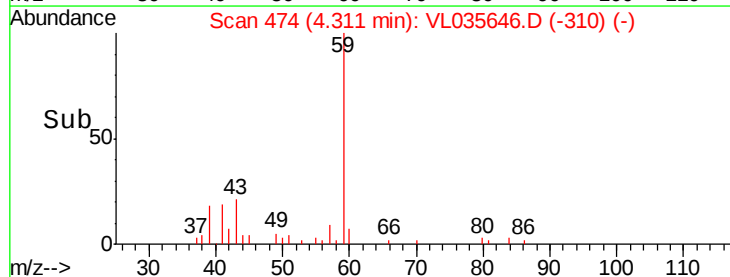
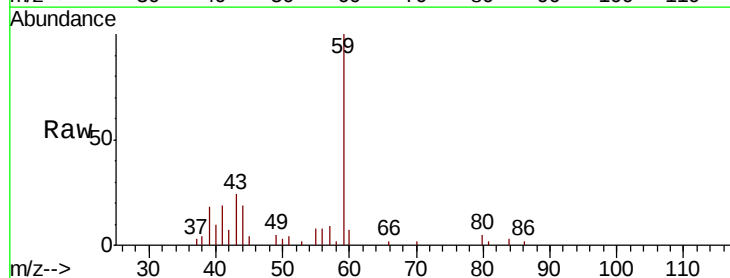
Instrument :
MSVOA_L
ClientSampleId :
SV-9DL2

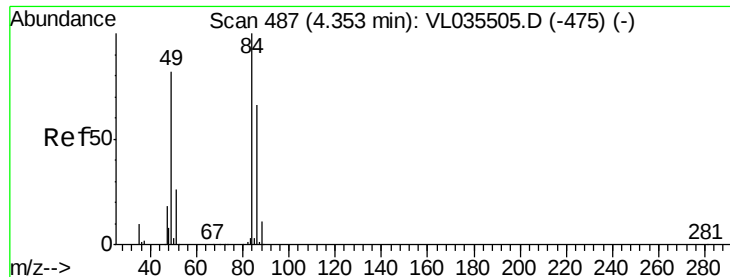
Tot Ion: 39 Resp: 23344
Ion Ratio Lower Upper
39 100
54 12.5 88.4 132.6#



#17
tert-Butyl alcohol
Concen: 0.069 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.03 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

Tgt Ion: 59 Resp: 10806
Ion Ratio Lower Upper
59 100
57 13.6 8.4 12.6#





#20

Methylene Chloride

Concen: 0.920 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Instrument :

MSVOA_L

ClientSampleId :

SV-9DL2

Tot Ion: 84 Resp: 87974

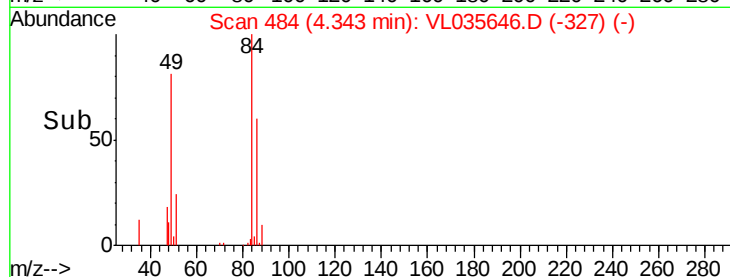
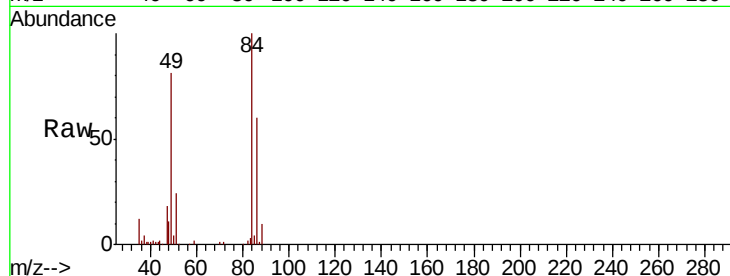
Ion Ratio Lower Upper

84 100

49 80.8 65.4 98.0

51 24.4 21.5 32.3

86 60.5 52.9 79.3

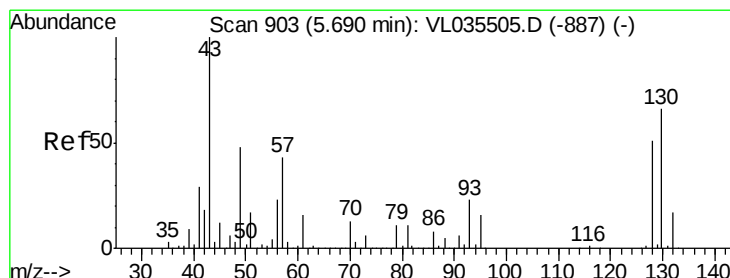
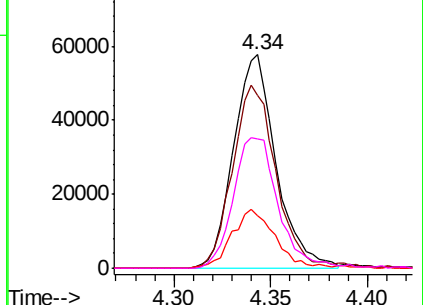


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.067 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Tgt Ion: 43 Resp: 15293

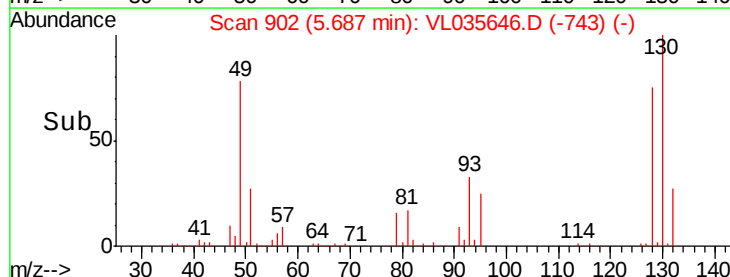
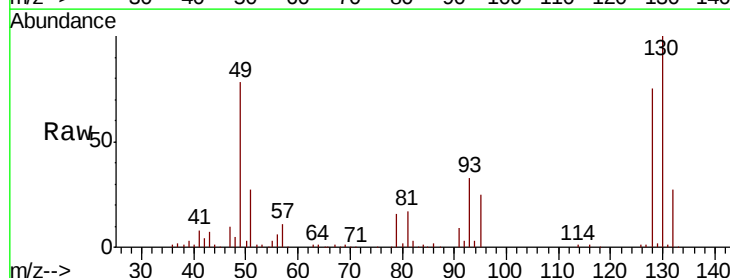
Ion Ratio Lower Upper

43 100

45 1.8 8.4 12.6#

61 1.2 10.6 16.0#

70 3.8 9.4 14.2#

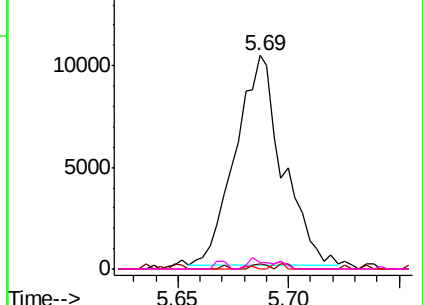


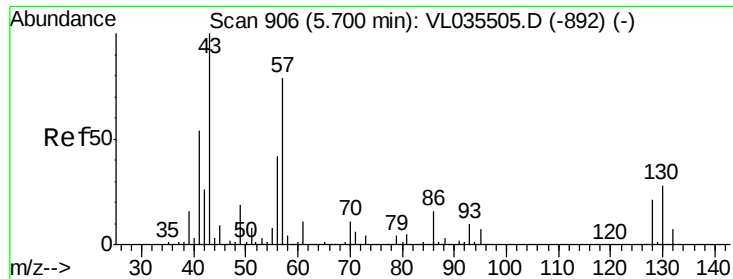
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

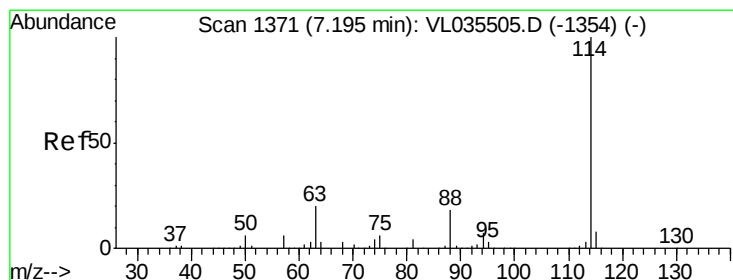
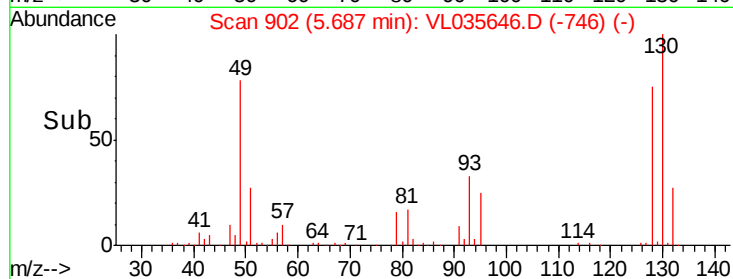
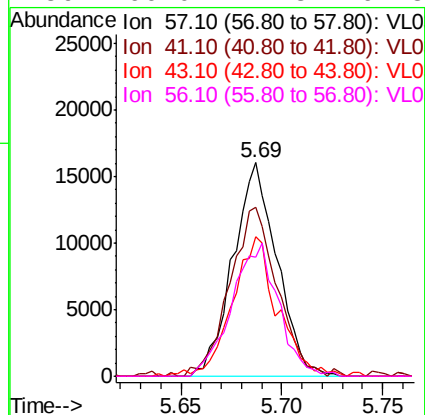
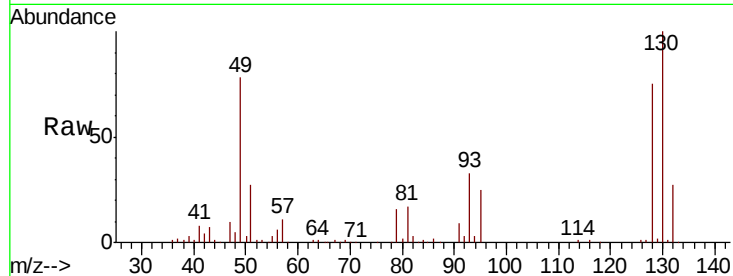




#26
Hexane
Concen: 0.190 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

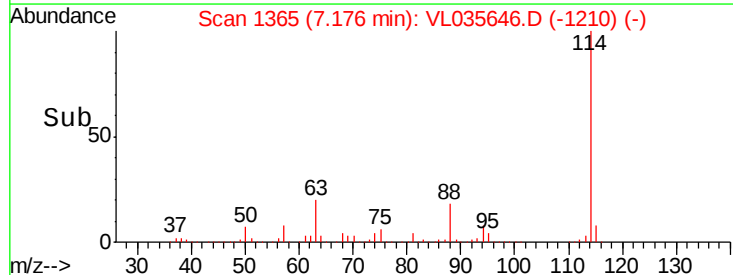
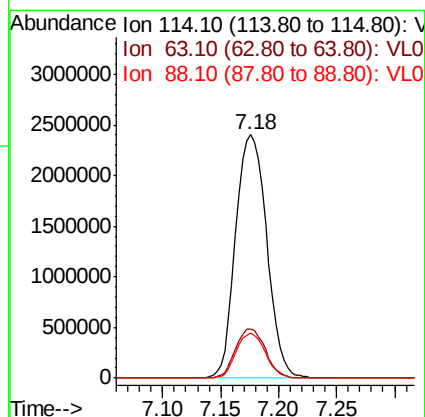
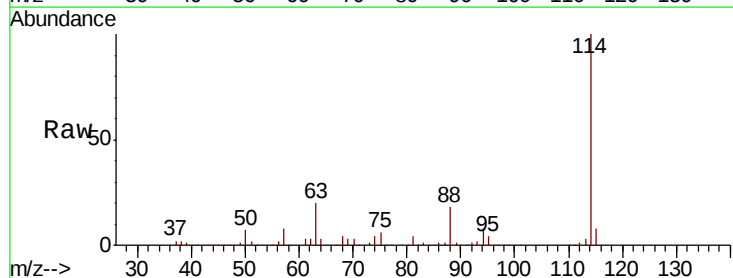
Instrument :
MSVOA_L
ClientSampleID :
SV-9DL2

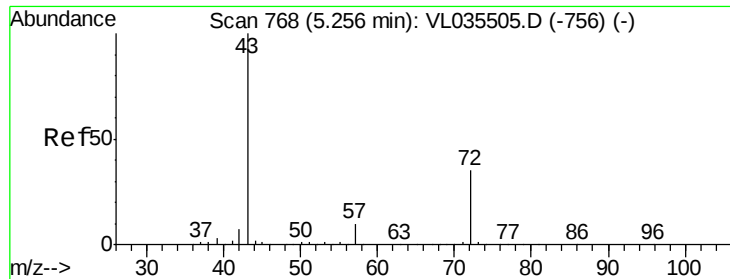
Tot Ion: 57 Resp: 24458
Ion Ratio Lower Upper
57 100
41 86.5 55.9 83.9#
43 67.5 141.8 212.8#
56 66.0 41.8 62.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

Tgt Ion: 114 Resp: 4485472
Ion Ratio Lower Upper
114 100
63 19.6 14.7 22.1
88 17.5 13.4 20.2

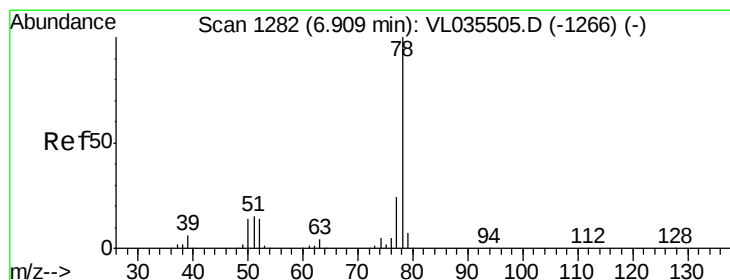
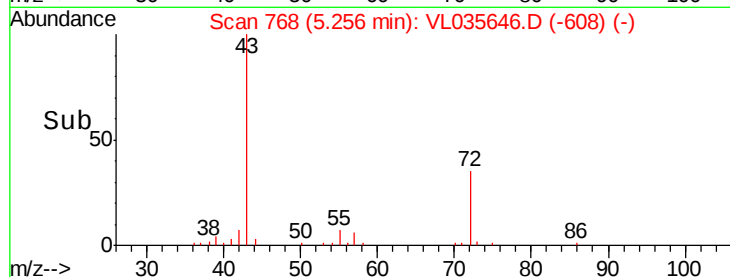
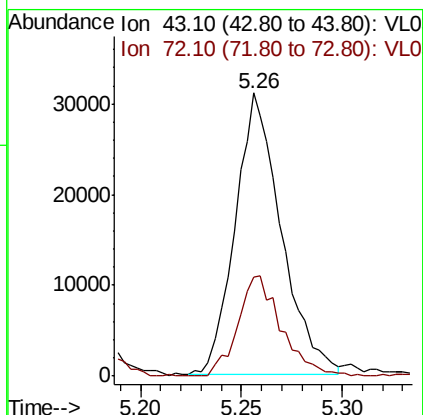
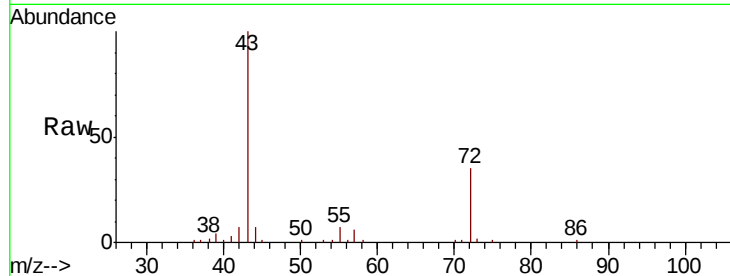




#34
2-Butanone
Concen: 0.372 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.02 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

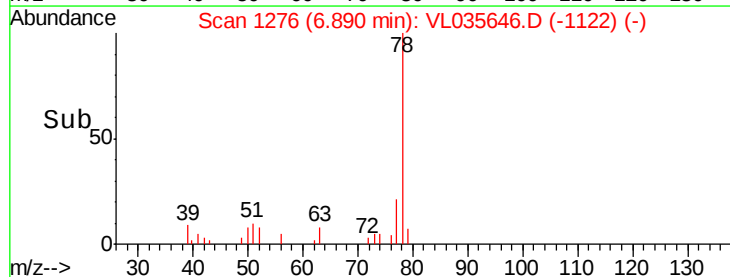
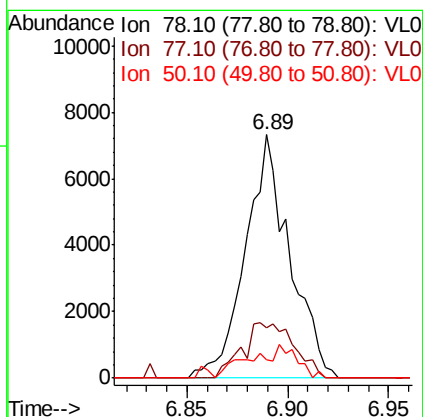
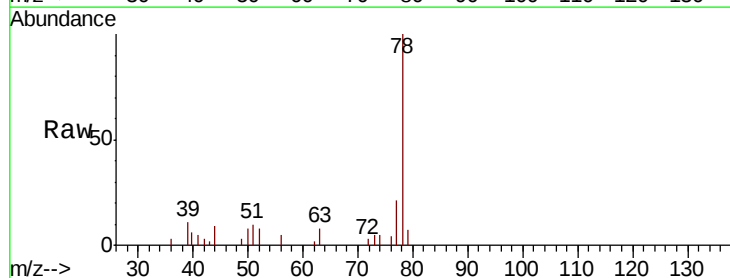
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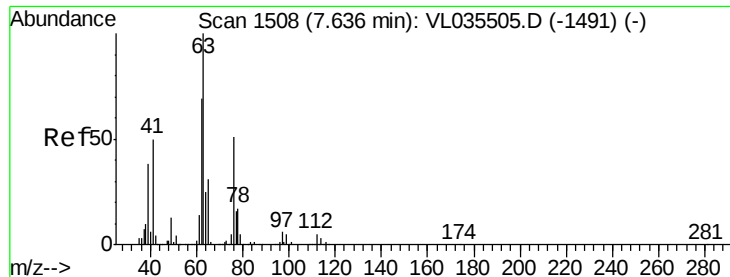
Tot Ion: 43 Resp: 49459
Ion Ratio Lower Upper
43 100
72 34.1 27.7 41.5



#36
Benzene
Concen: 0.038 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

Tgt Ion: 78 Resp: 11168
Ion Ratio Lower Upper
78 100
77 20.9 19.3 28.9
50 7.6 11.0 16.6#





#39

1,2-Dichloropropane

Concen: 8.925 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Instrument :

MSVOA_L

ClientSampleId :

SV-9DL2

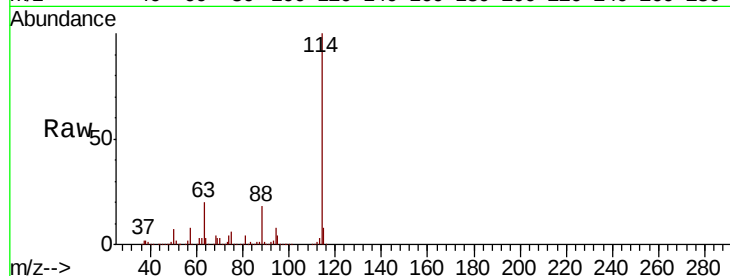
Tot Ion: 63 Resp: 875424

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

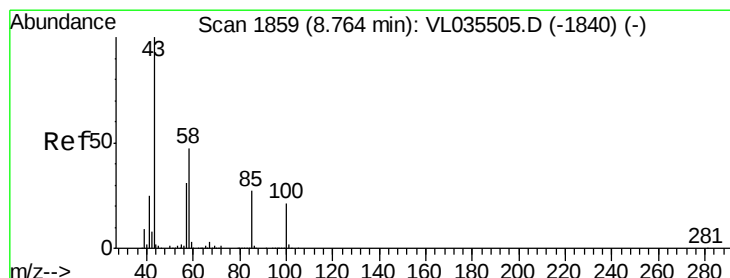
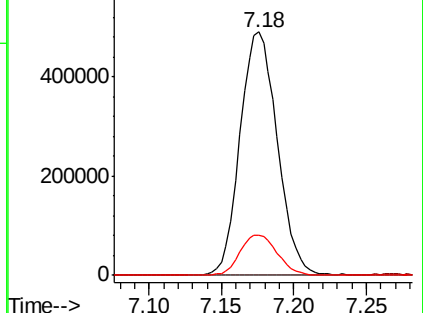
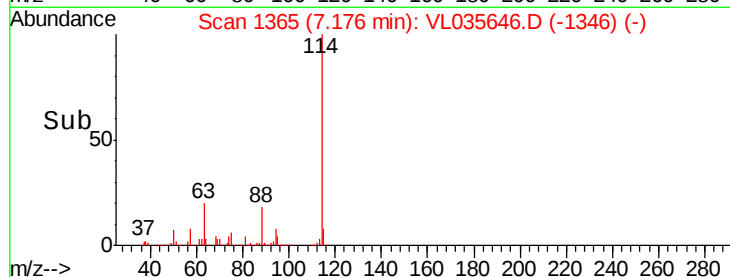
62 16.7 55.4 83.0#



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



#50

4-Methyl-2-Pentanone

Concen: 0.273 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.03 min

Lab File: VL035646.D

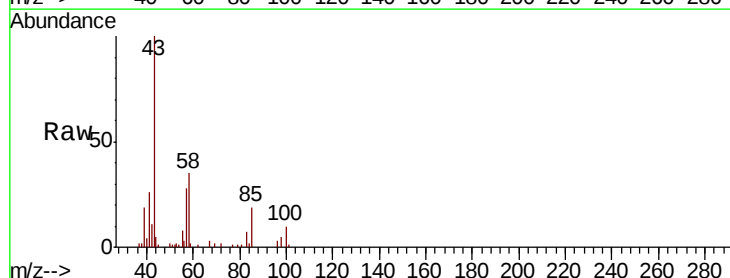
Acq: 17 Sep 2020 2:57

Tgt Ion: 43 Resp: 52701

Ion Ratio Lower Upper

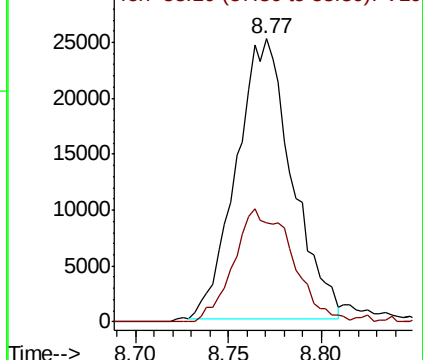
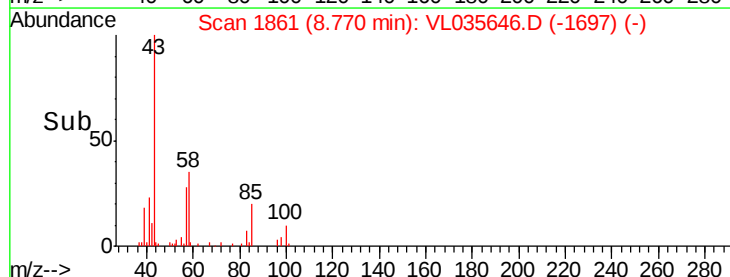
43 100

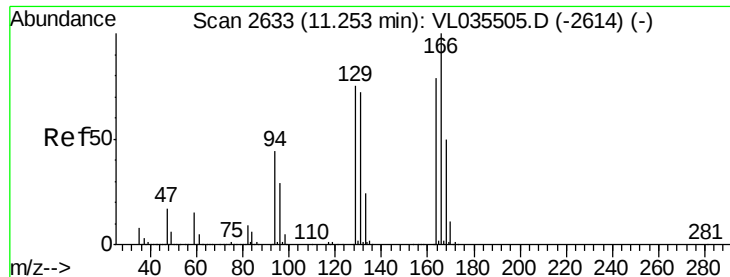
58 42.5 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#52

Tetrachloroethene

Concen: 0.387 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL035646.D

Acq: 17 Sep 2020 2:57

Instrument :

MSVOA_L

ClientSampleId :

SV-9DL2

Tot Ion:164 Resp: 65579

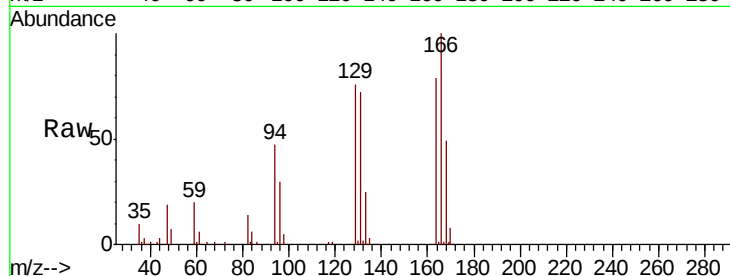
Ion Ratio Lower Upper

164 100

166 127.5 100.9 151.3

129 97.1 75.3 112.9

131 91.8 73.0 109.4

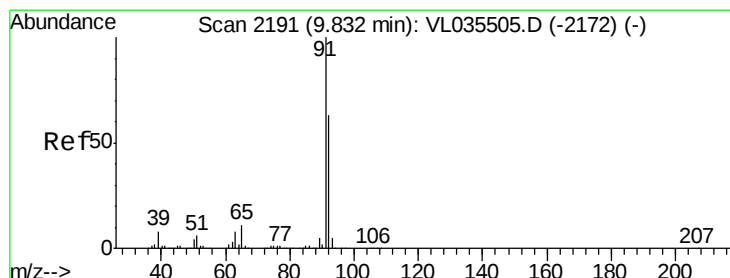
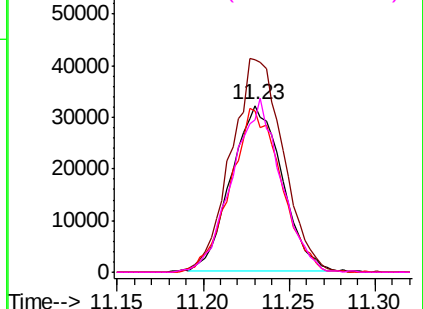
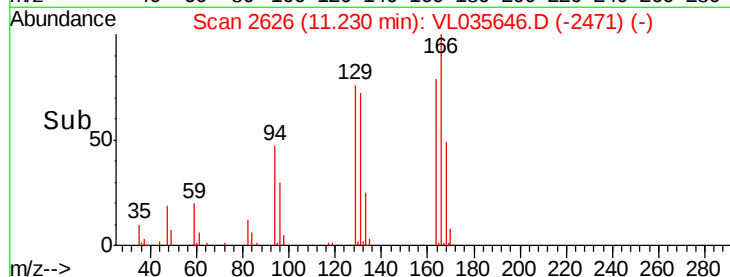


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.453 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL035646.D

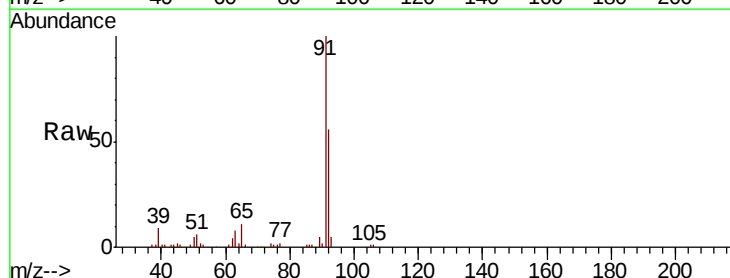
Acq: 17 Sep 2020 2:57

Tgt Ion: 91 Resp: 165298

Ion Ratio Lower Upper

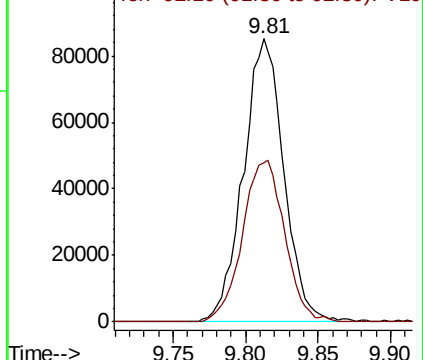
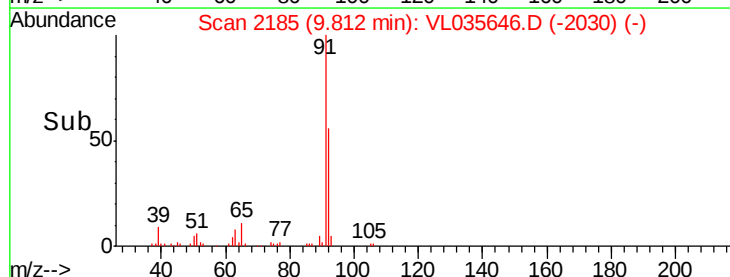
91 100

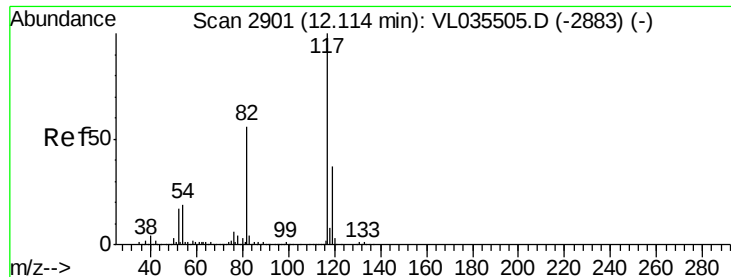
92 59.8 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

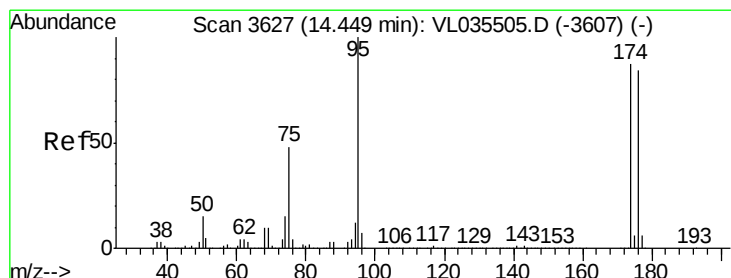
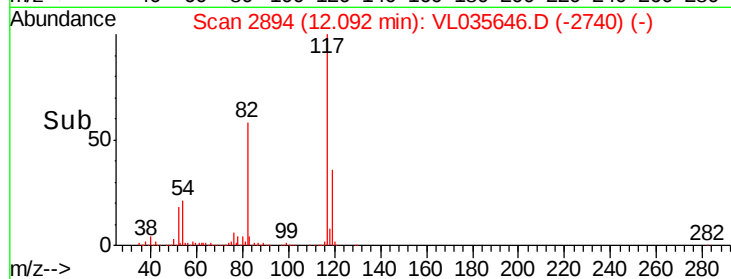
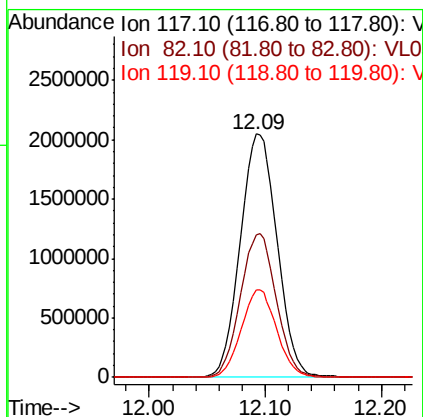
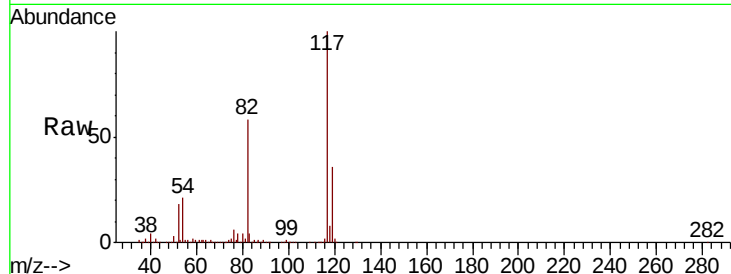




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

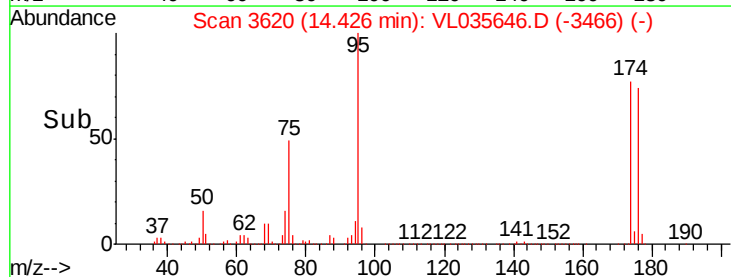
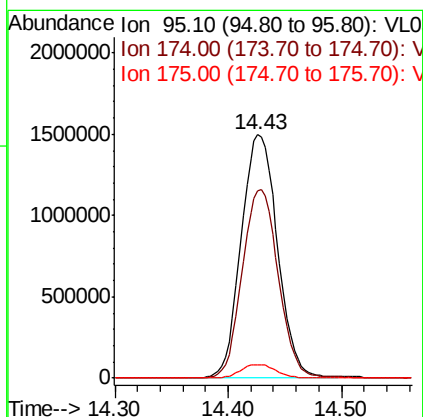
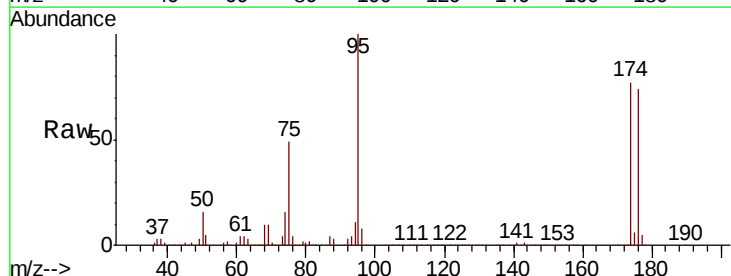
Instrument :
MSVOA_L
ClientSampleId :
SV-9DL2

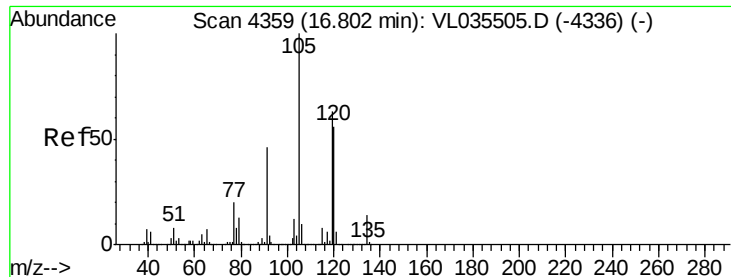
Tot Ion:117 Resp: 4523487
Ion Ratio Lower Upper
117 100
82 57.7 41.6 62.4
119 34.6 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.434 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL035646.D
Acq: 17 Sep 2020 2:57

Tgt Ion: 95 Resp: 3351635
Ion Ratio Lower Upper
95 100
174 77.5 69.6 104.4
175 5.6 5.1 7.7





#74
 1,2,4-Trimethylbenzene
 Concen: 0.045 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL035646.D
 Acq: 17 Sep 2020 2:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9DL2

Tot Ion:	105	Resp:	22609
Ion	Ratio	Lower	Upper
105	100		
120	35.7	44.4	66.6#
91	8.5	37.1	55.7#
77	10.6	16.0	24.0#

