

Data File : VL035668.D
Acq On : 17 Sep 2020 22:37
Operator : SY/AP
Sample : L3983-04DL2 400X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-12DL2

Quant Time: Sep 18 02:35:05 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	1145038	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4427068	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4395456	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 3224343 10.33 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.01	41	33104	0.678	ppbv	92
13) Ethanol	3.62	45	2040	0.169	ppbv #	37
15) Acetone	3.86	43	191468	1.516	ppbv	93
16) 1,3-Butadiene	3.30	39	18884	0.402	ppbv #	13
17) tert-Butyl alcohol	4.32	59	7011	0.046	ppbv #	94
20) Methylene Chloride	4.34	84	20313	0.216	ppbv	89
26) Hexane	5.69	57	4241	0.034	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	849302	8.773	ppbv #	32
50) 4-Methyl-2-Pentanone	8.77	43	62563	0.329	ppbv	94
52) Tetrachloroethene	11.24	164	888258	5.306	ppbv	99
53) Toluene	9.82	91	17917	0.050	ppbv	99

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

Data File : VL035668.D

Acq On : 17 Sep 2020 22:37

Operator : SY/AP

Sample : L3983-04DL2 400X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL2

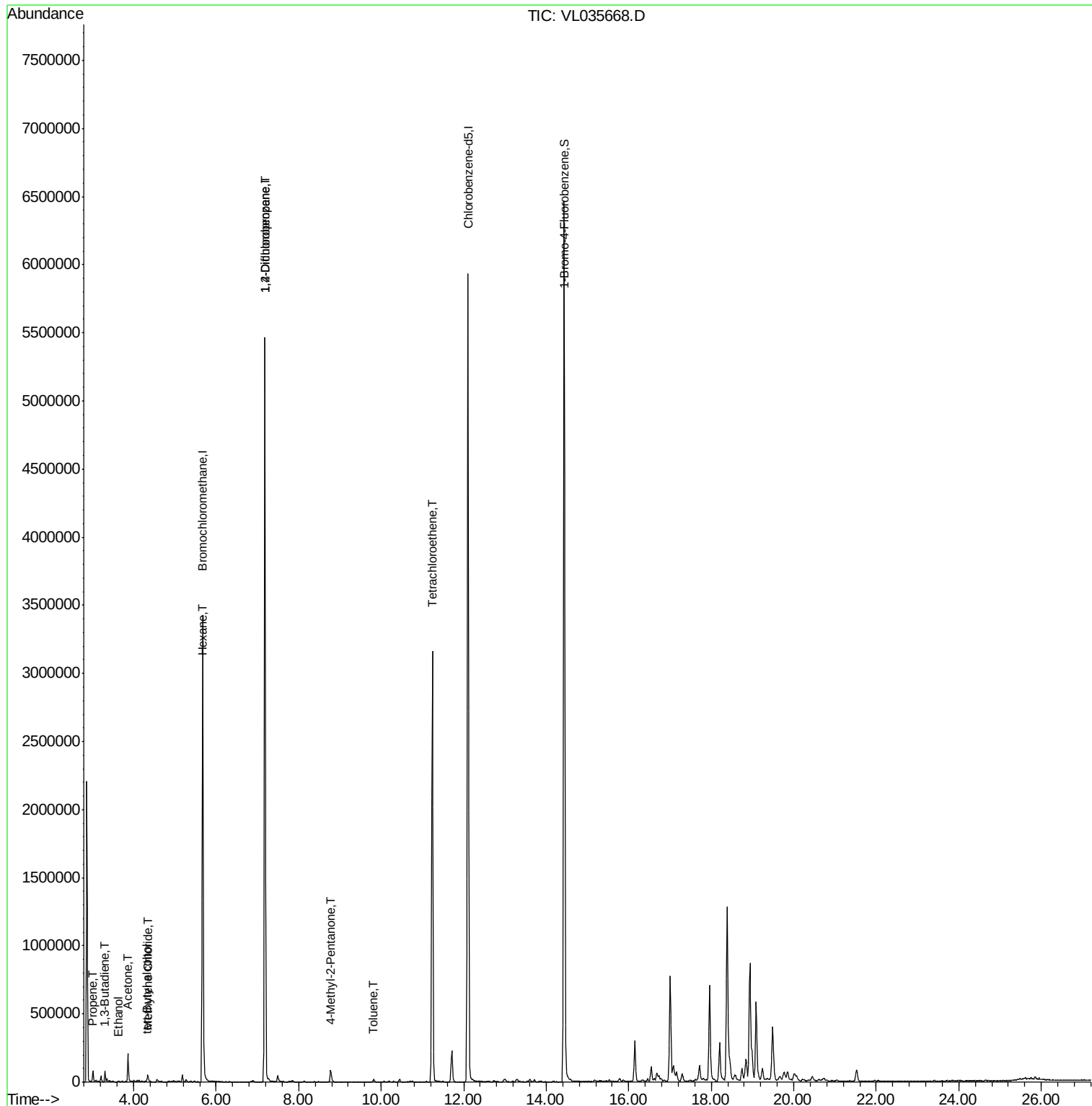
Quant Time: Sep 18 02:35:05 2020

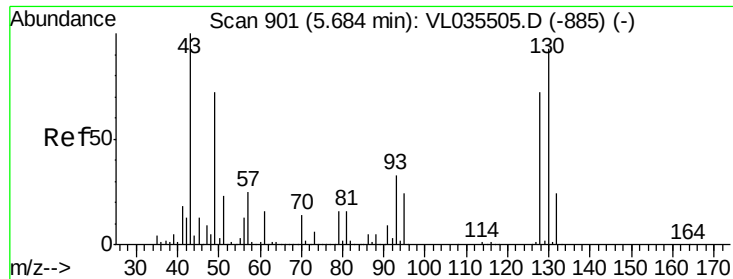
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL2

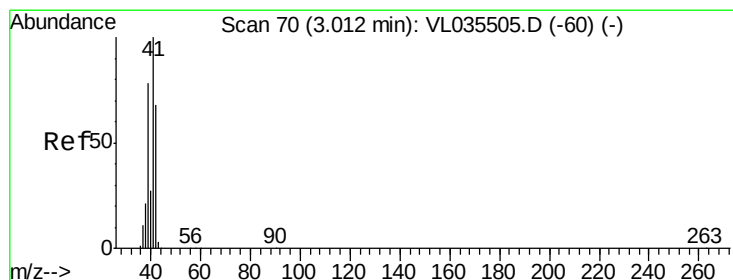
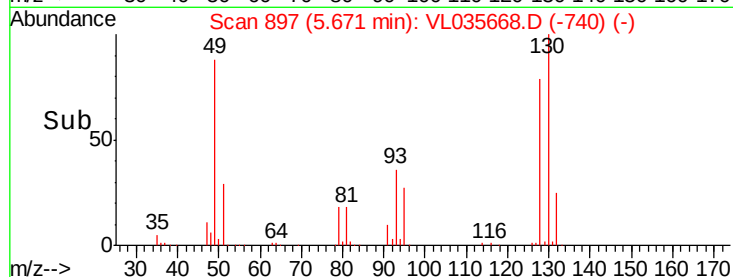
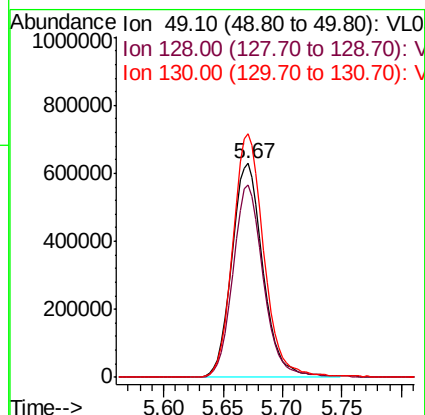
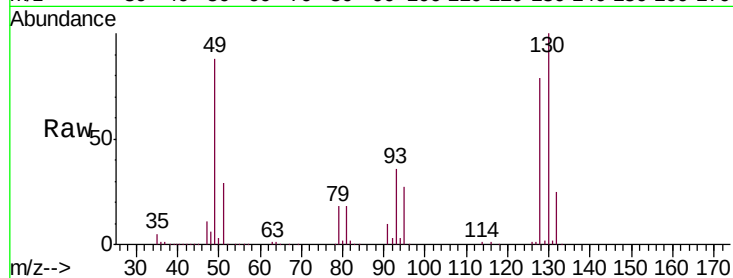
Tgt Ion: 49 Resp: 1145038

Ion Ratio Lower Upper

49 100

128 88.7 50.0 150.1

130 113.6 64.4 193.2



#9

Propene

Concen: 0.678 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035668.D

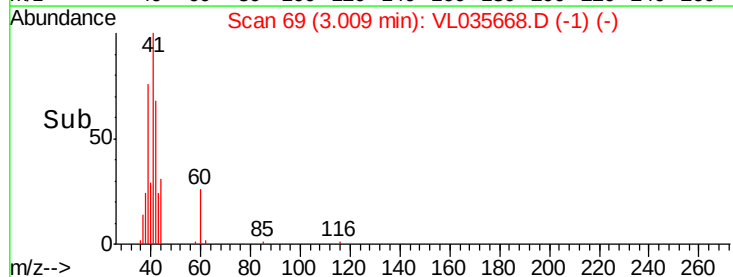
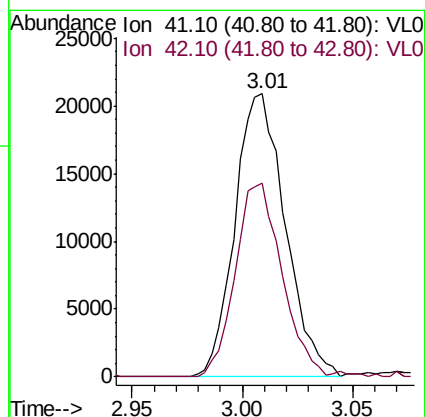
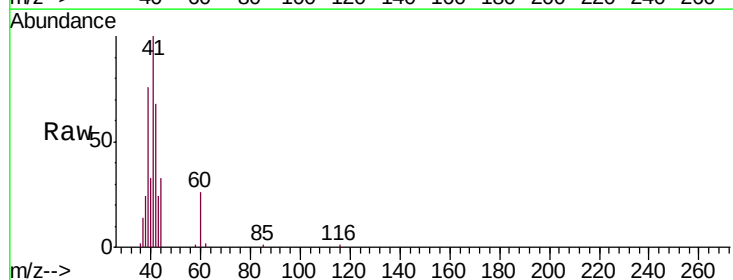
Acq: 17 Sep 2020 22:37

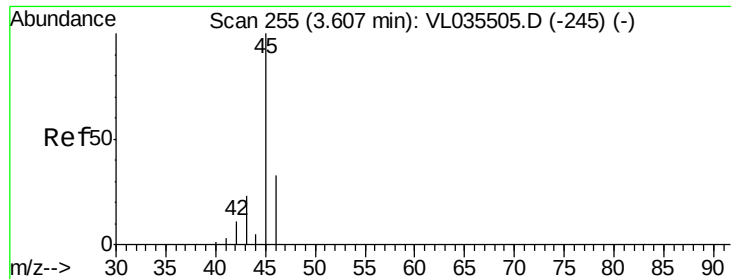
Tgt Ion: 41 Resp: 33104

Ion Ratio Lower Upper

41 100

42 63.8 56.3 84.5





#13

Ethanol

Concen: 0.169 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

Instrument :

MSVOA_L

ClientSampleId :

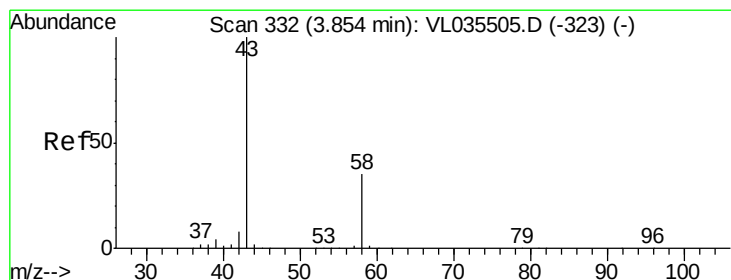
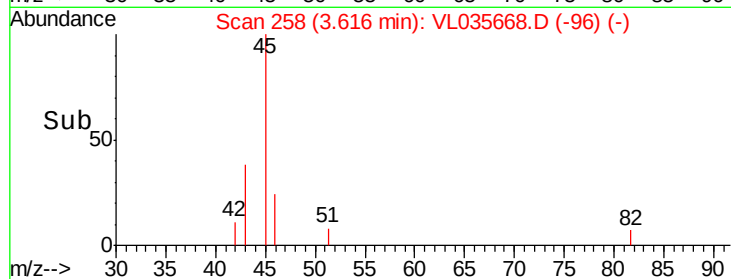
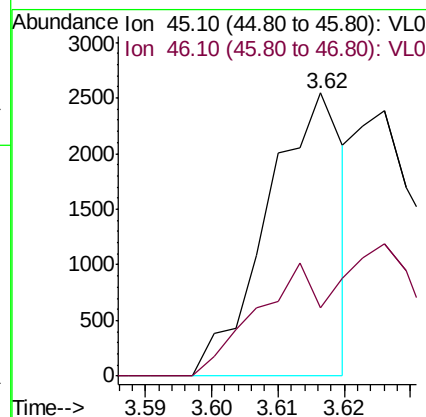
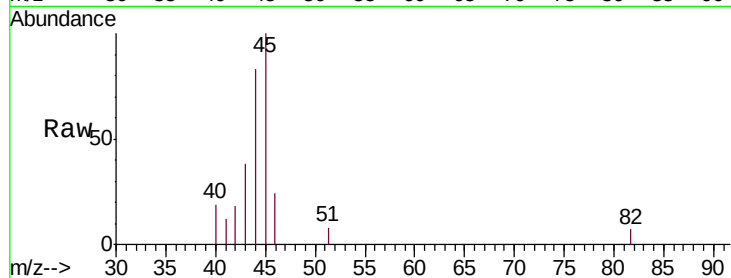
SV-12DL2

Tgt Ion: 45 Resp: 2040

Ion Ratio Lower Upper

45 100

46 0.0 15.2 60.6#



#15

Acetone

Concen: 1.516 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.02 min

Lab File: VL035668.D

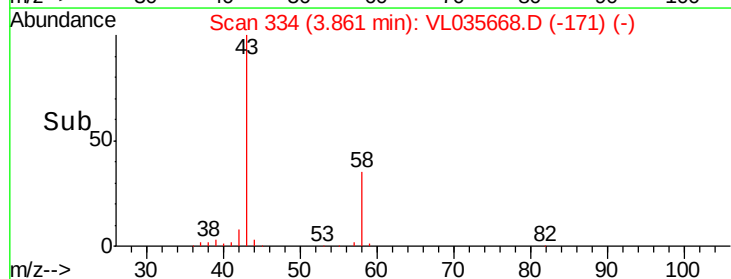
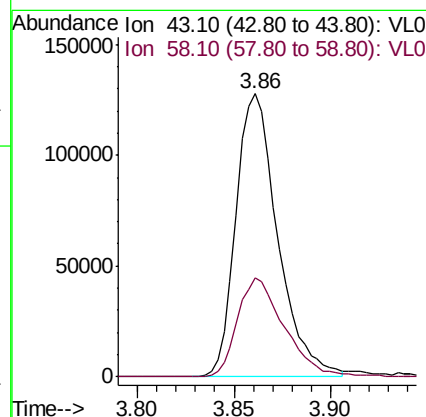
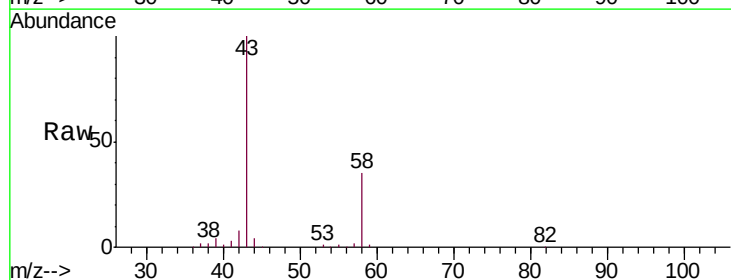
Acq: 17 Sep 2020 22:37

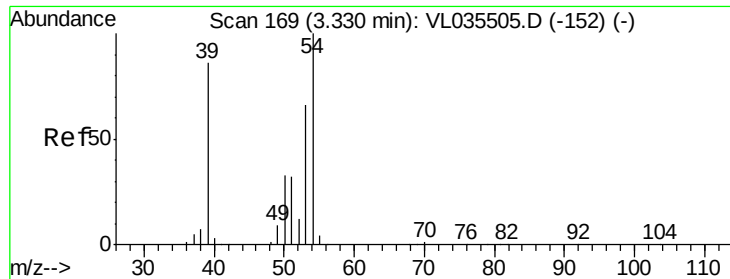
Tgt Ion: 43 Resp: 191468

Ion Ratio Lower Upper

43 100

58 39.8 28.4 42.6

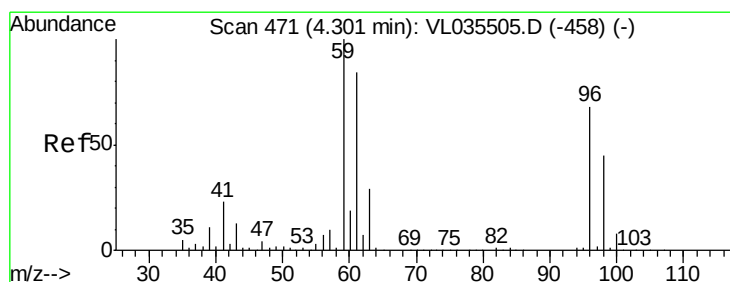
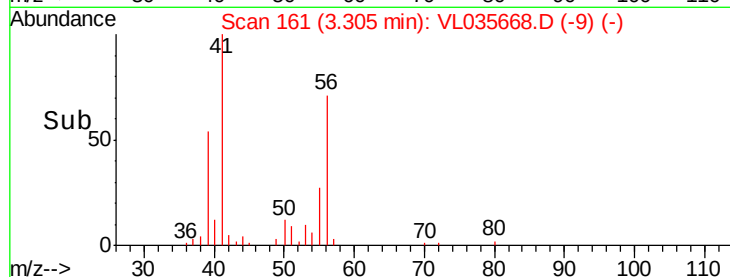
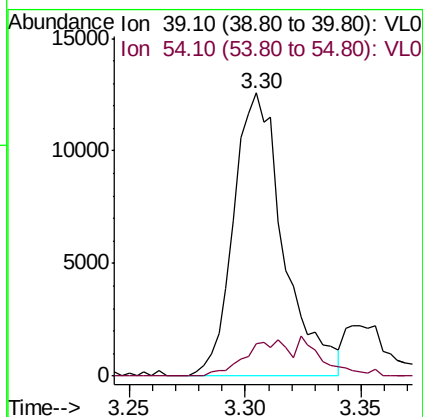
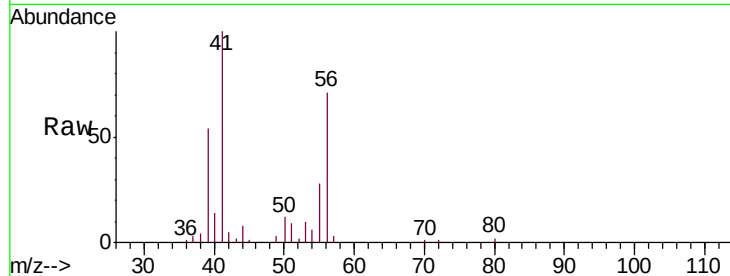




#16
1,3-Butadiene
Concen: 0.402 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.01 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

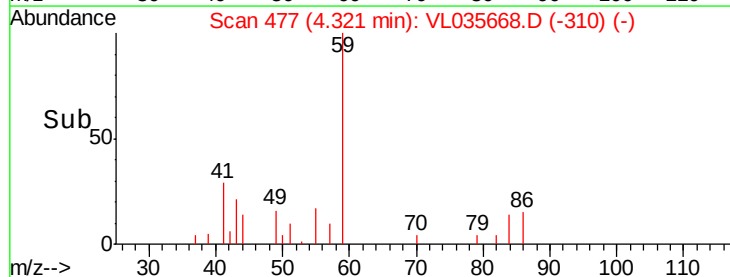
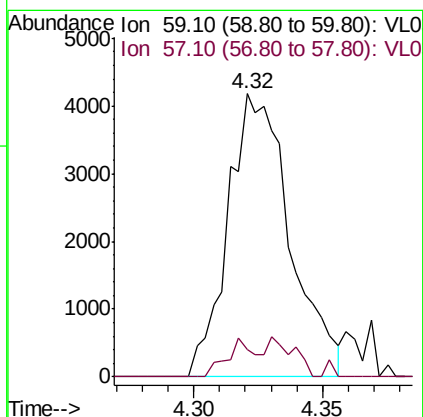
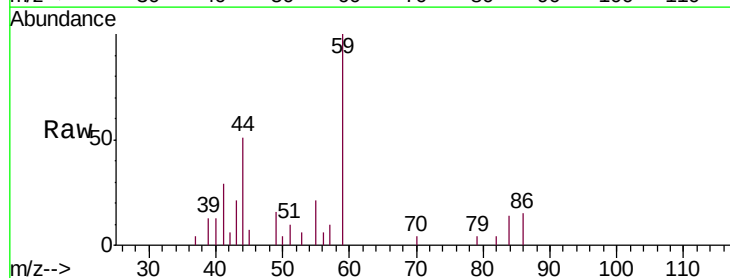
Instrument :
MSVOA_L
ClientSampleId :
SV-12DL2

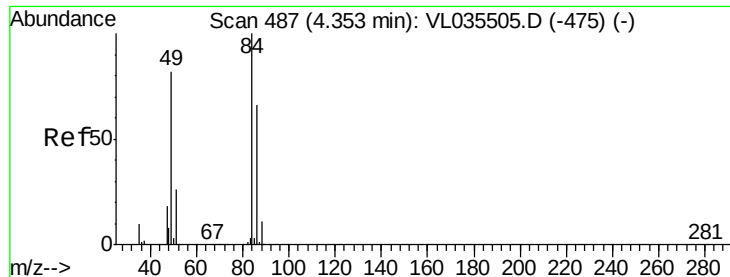
Tgt Ion: 39 Resp: 18884
Ion Ratio Lower Upper
39 100
54 18.3 88.4 132.6#



#17
tert-Butyl alcohol
Concen: 0.046 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.04 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

Tgt Ion: 59 Resp: 7011
Ion Ratio Lower Upper
59 100
57 12.9 8.4 12.6#

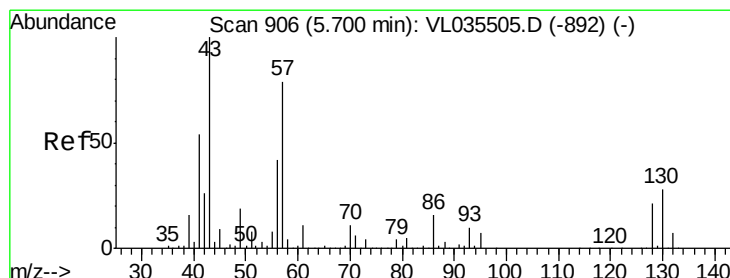
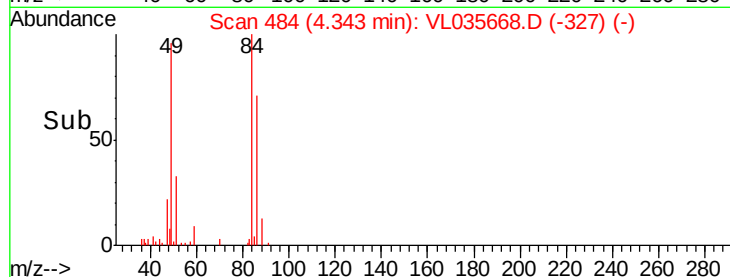
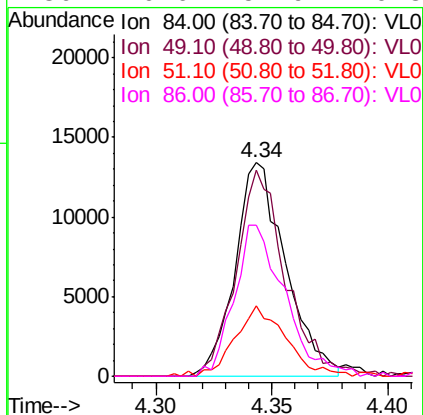
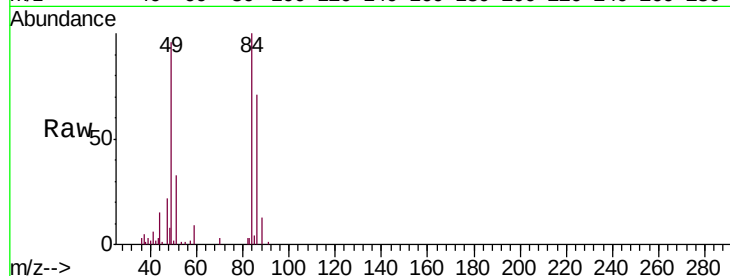




#20
Methylene Chloride
Concen: 0.216 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.01 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

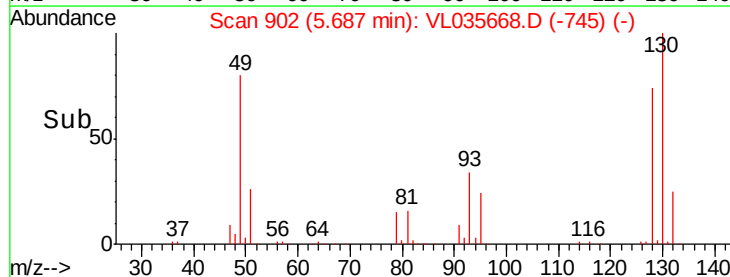
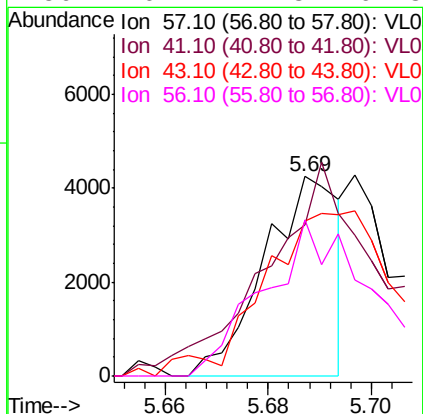
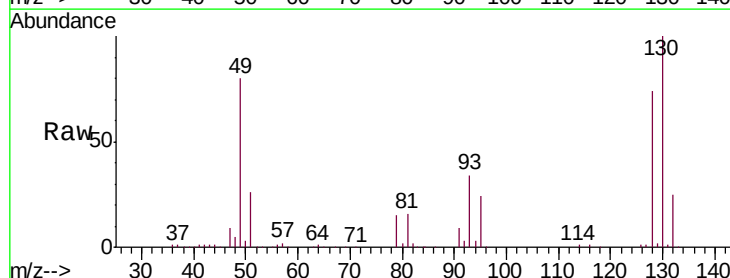
Instrument :
MSVOA_L
ClientSampleId :
SV-12DL2

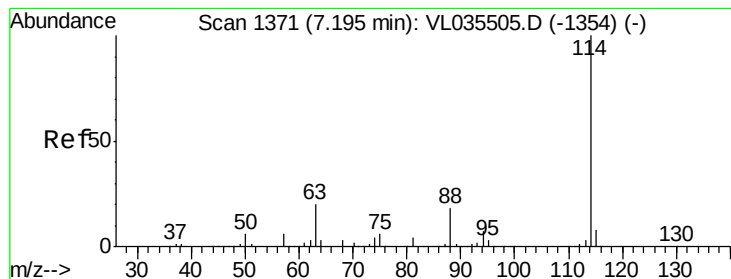
Tgt Ion:	84	Resp:	20313
Ion	Ratio	Lower	Upper
84	100		
49	96.3	65.4	98.0
51	31.5	21.5	32.3
86	70.6	52.9	79.3



#26
Hexane
Concen: 0.034 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

Tgt Ion:	57	Resp:	4241
Ion	Ratio	Lower	Upper
57	100		
41	164.1	55.9	83.9#
43	0.0	141.8	212.8#
56	116.4	41.8	62.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

Instrument :

MSVOA_L

ClientSampleId :

SV-12DL2

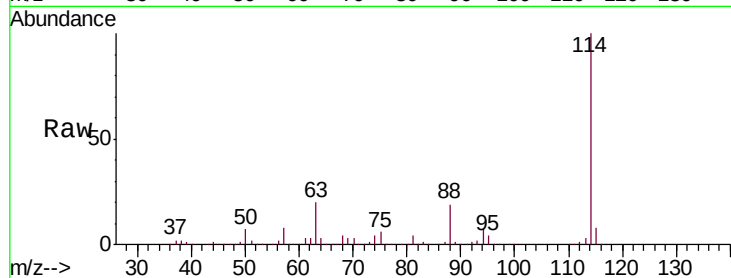
Tgt Ion:114 Resp: 4427068

Ion Ratio Lower Upper

114 100

63 19.3 14.7 22.1

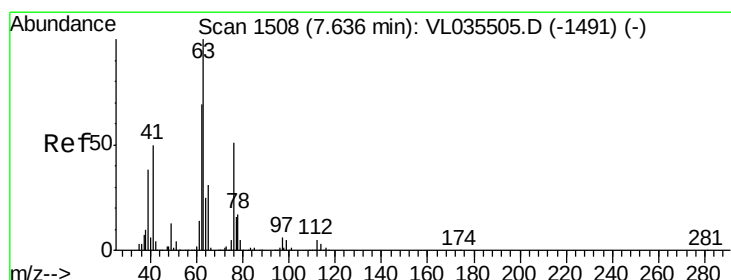
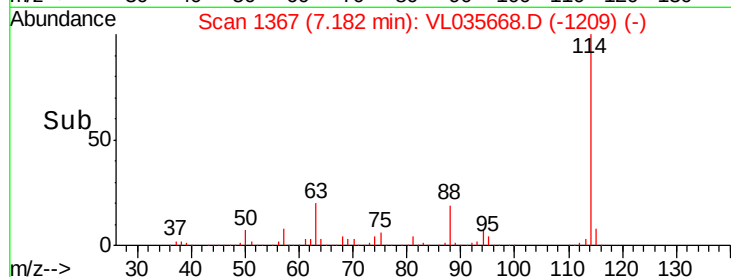
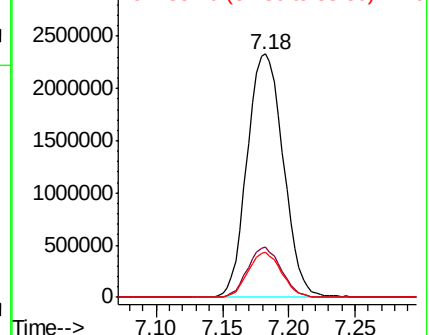
88 17.3 13.4 20.2



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 8.773 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.43 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

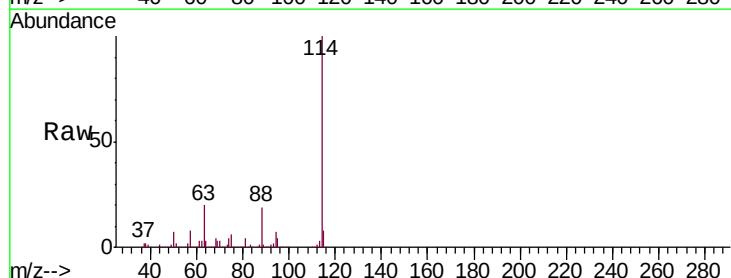
Tgt Ion: 63 Resp: 849302

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

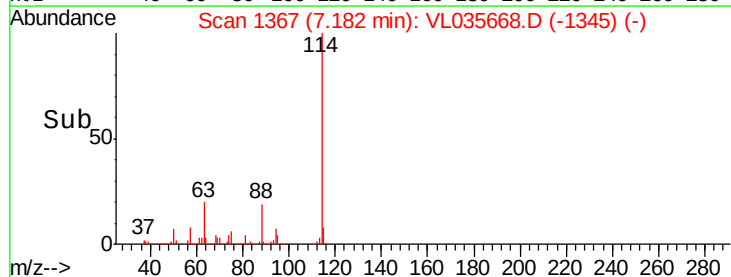
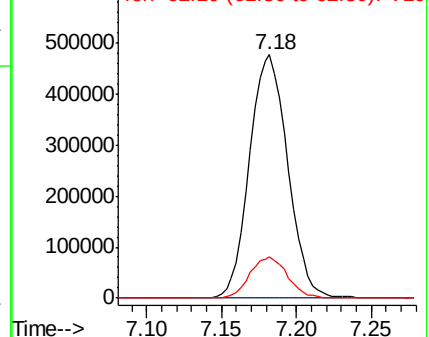
62 16.9 55.4 83.0#

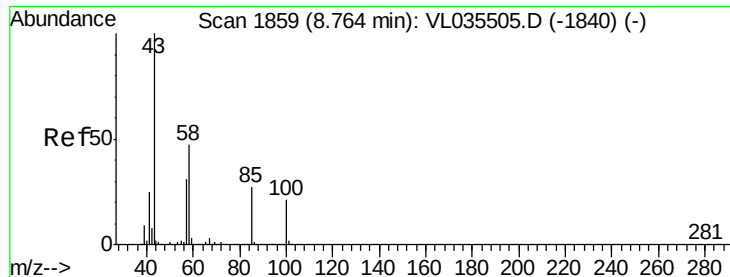


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

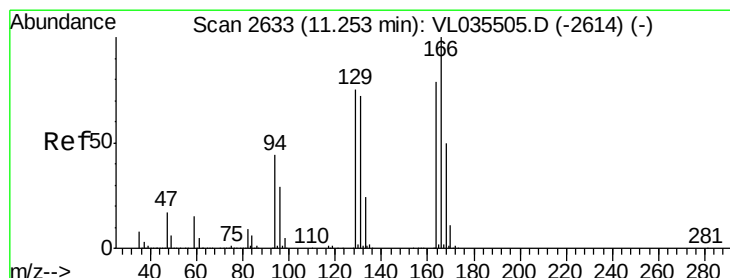
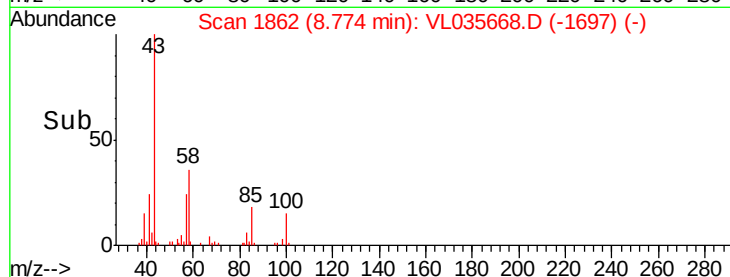
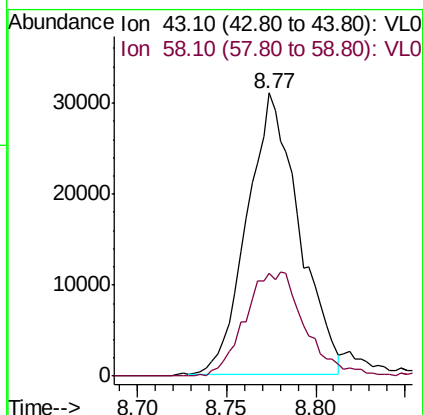
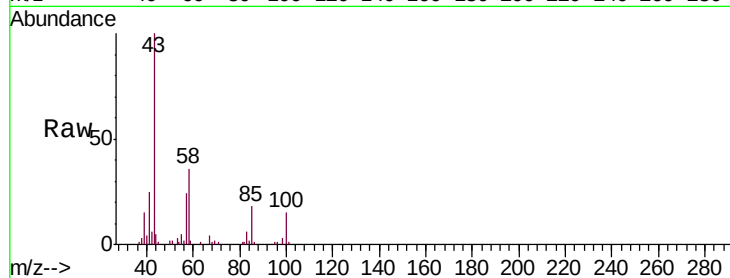




#50
4-Methyl-2-Pentanone
Concen: 0.329 ppbv
RT: 8.77 min Scan# 1862
Delta R.T. 0.03 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

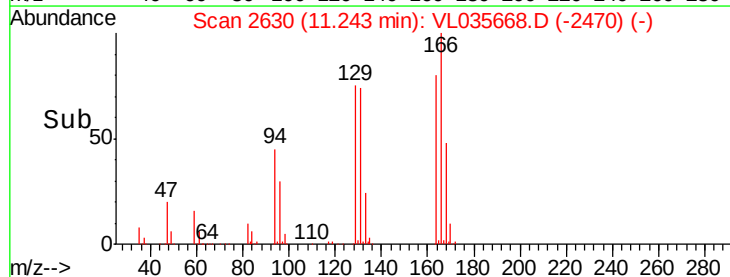
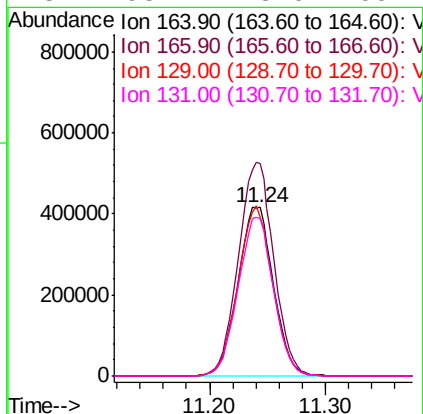
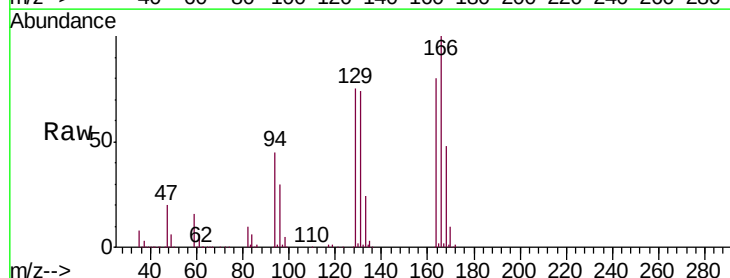
Instrument :
MSVOA_L
ClientSampleId :
SV-12DL2

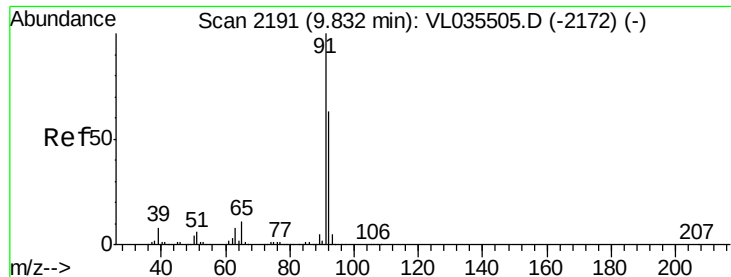
Tgt Ion: 43 Resp: 62563
Ion Ratio Lower Upper
43 100
58 42.8 37.4 56.0



#52
Tetrachloroethene
Concen: 5.306 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. 0.01 min
Lab File: VL035668.D
Acq: 17 Sep 2020 22:37

Tgt Ion: 164 Resp: 888258
Ion Ratio Lower Upper
164 100
166 125.6 100.9 151.3
129 93.8 75.3 112.9
131 93.2 73.0 109.4





#53

Toluene

Concen: 0.050 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

Instrument :

MSVOA_L

ClientSampleId :

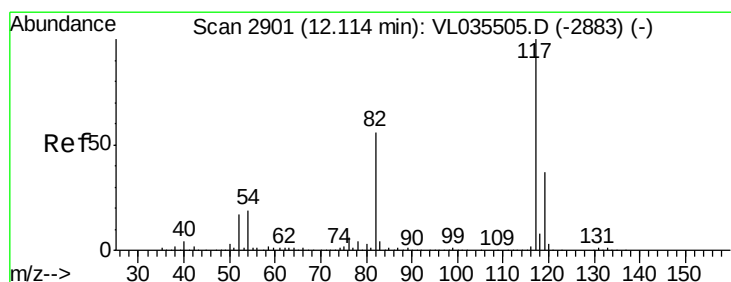
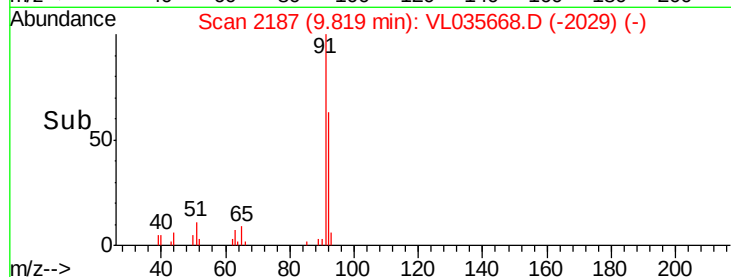
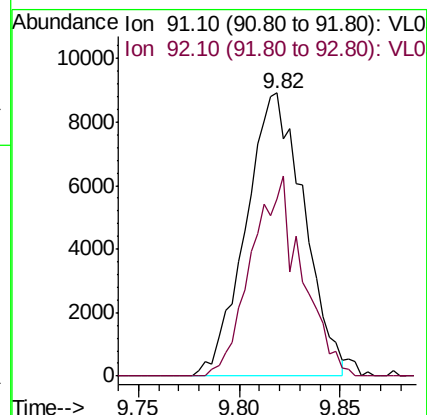
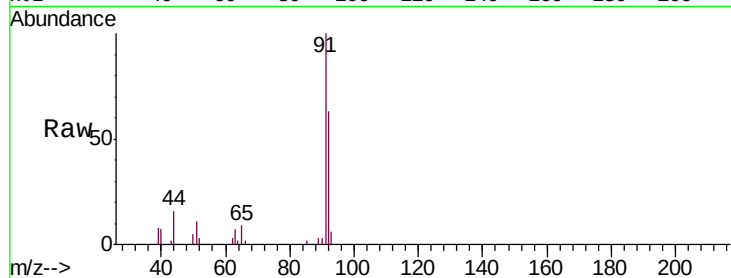
SV-12DL2

Tgt Ion: 91 Resp: 17917

Ion Ratio Lower Upper

91 100

92 61.3 49.8 74.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL035668.D

Acq: 17 Sep 2020 22:37

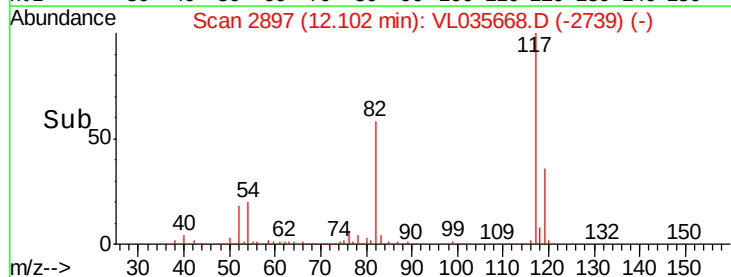
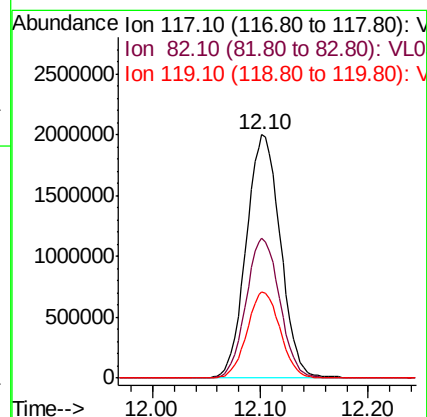
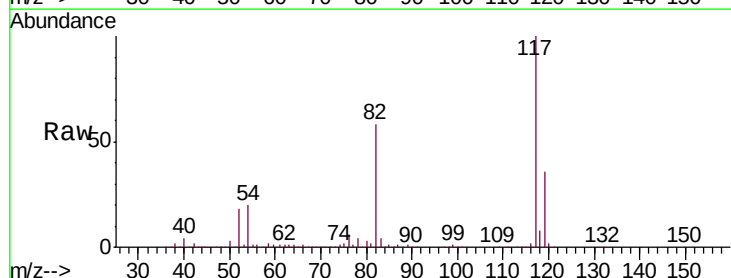
Tgt Ion: 117 Resp: 4395456

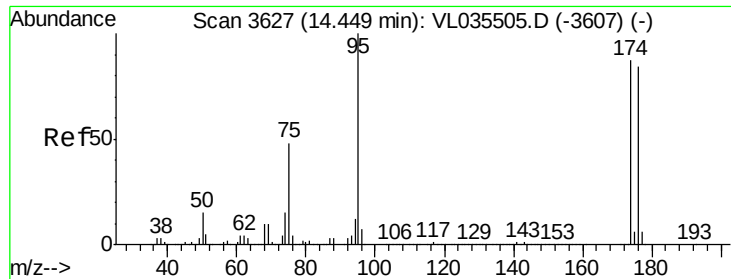
Ion Ratio Lower Upper

117 100

82 57.1 41.6 62.4

119 34.6 29.3 43.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.330 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL035668.D
 Acq: 17 Sep 2020 22:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-12DL2

Tgt Ion: 95 Resp: 3224343
 Ion Ratio Lower Upper
 95 100
 174 78.4 69.6 104.4
 175 5.7 5.1 7.7

