

Data File : VL032883.D
Acq On : 4 Dec 2018 19:23
Operator : SY/AP
Sample : J6175-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MMSV-01DL

Quant Time: Dec 05 05:49:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1518378	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3734757	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3692450	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2654175	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	19128	0.088	ppbv	89
3) Chlorodifluoromethane	3.01	51	5346	0.044	ppbv	97
9) Propene	3.04	41	56036	1.163	ppbv	92
11) Trichlorofluoromethane	4.01	101	10679	0.052	ppbv	94
13) Ethanol	3.67	45	22573	1.431	ppbv	95
15) Acetone	3.91	43	211016	1.522	ppbv #	79
16) 1,3-Butadiene	3.35	39	75365	1.403	ppbv #	15
20) Methylene Chloride	4.42	84	50207	0.699	ppbv #	86
23) Vinyl Acetate	5.34	43	1088500	4.306	ppbv #	87
25) Ethyl Acetate	5.79	43	33311	0.103	ppbv #	79
26) Hexane	5.79	57	47051	0.327	ppbv #	41
34) 2-Butanone	5.34	43	1088500	5.619	ppbv	99
36) Benzene	7.00	78	19321	0.065	ppbv	94
39) 1,2-Dichloropropane	7.29	63	873883	7.712	ppbv #	23
53) Toluene	9.95	91	19370	0.062	ppbv	99

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

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Misc : 400ml/MSVOA_L

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Instrument :
MSVOA_L
ClientSampleId :
MMSV-01DL

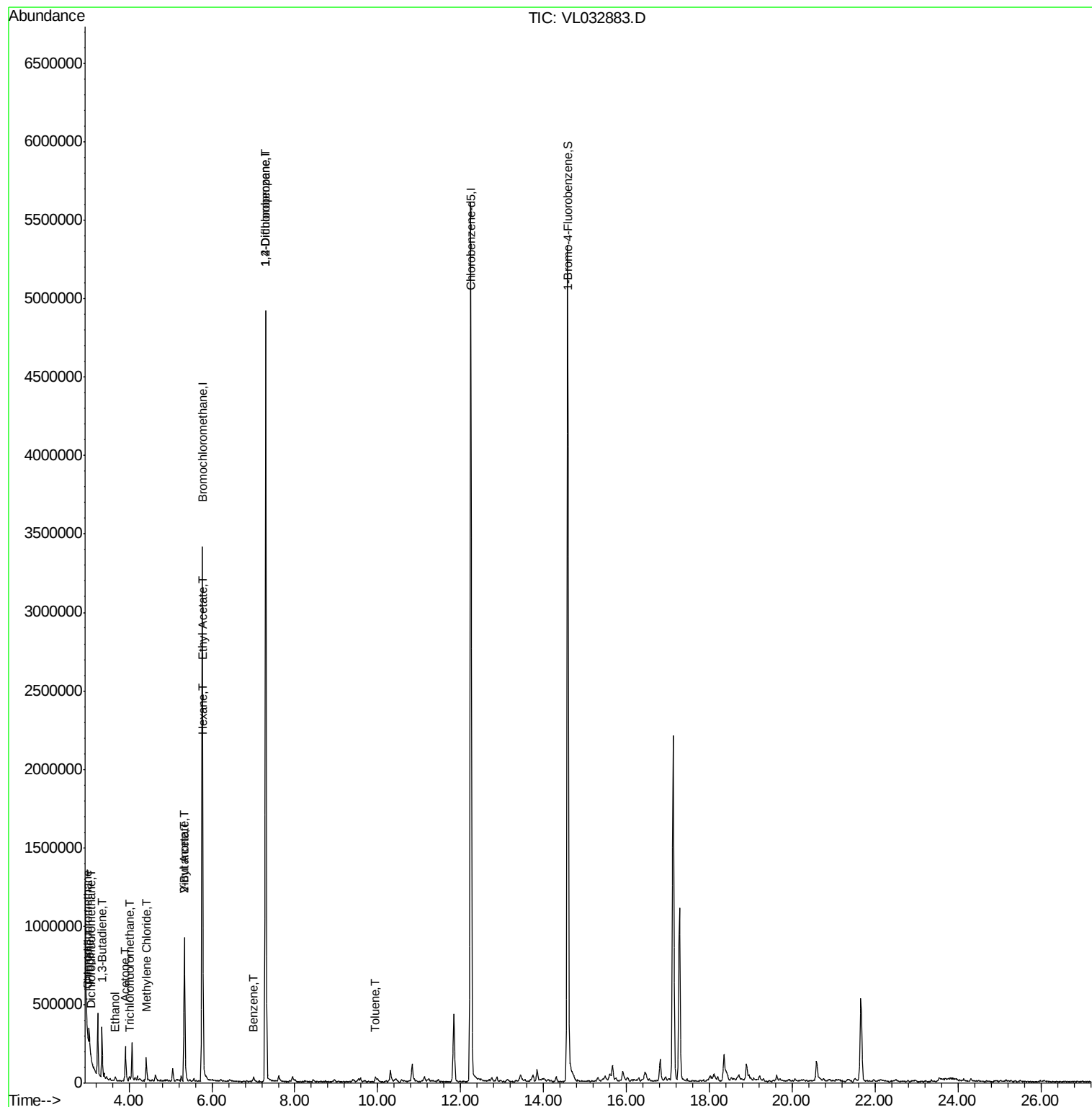
Quant Time: Dec 05 05:49:09 2018

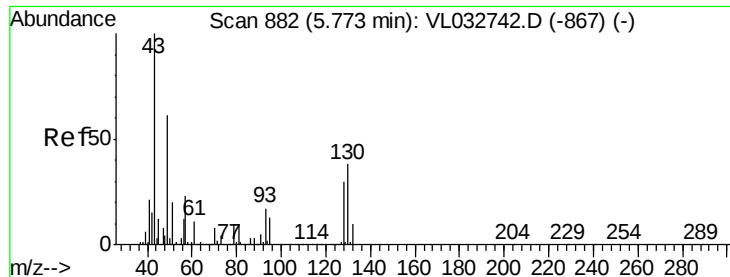
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018

QLast Update : Wed Nov 14 07:00:23 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

MMSV-01DL

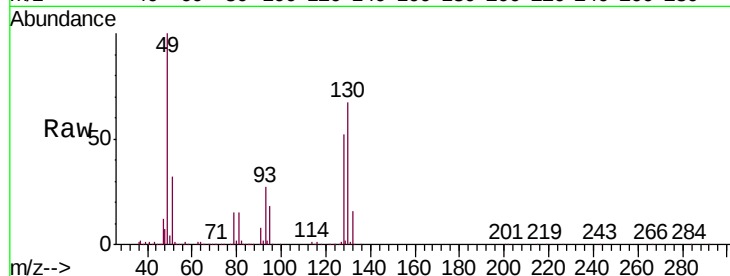
Tgt Ion: 49 Resp: 1518378

Ion Ratio Lower Upper

49 100

128 52.4 24.9 74.6

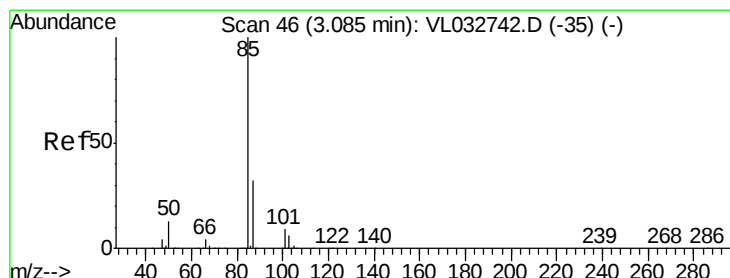
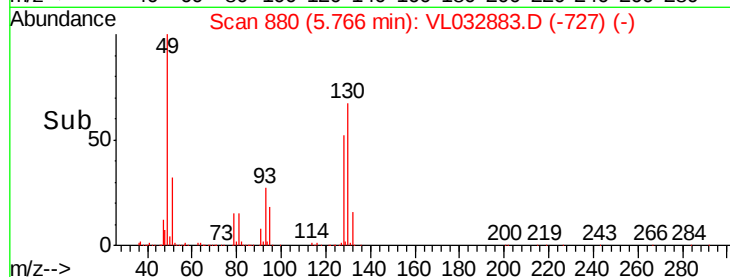
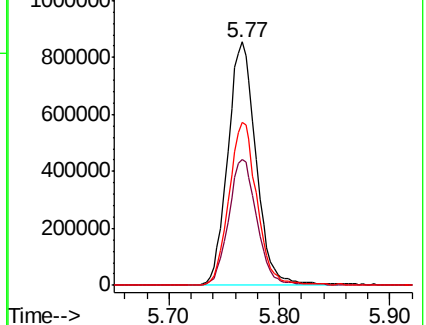
130 67.0 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032883.D

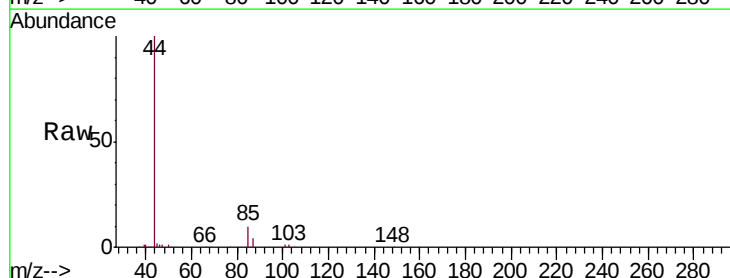
Acq: 4 Dec 2018 19:23

Tgt Ion: 85 Resp: 19128

Ion Ratio Lower Upper

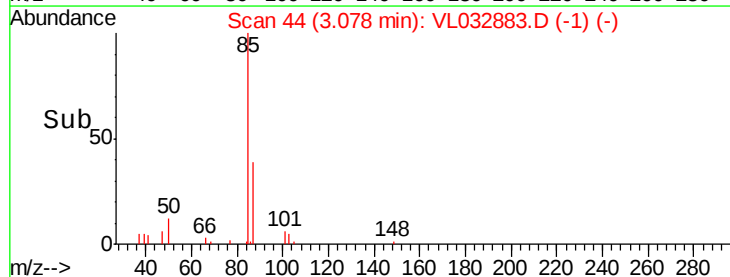
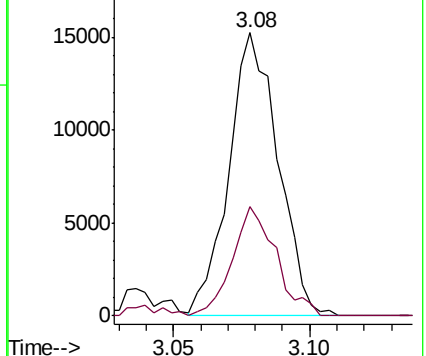
85 100

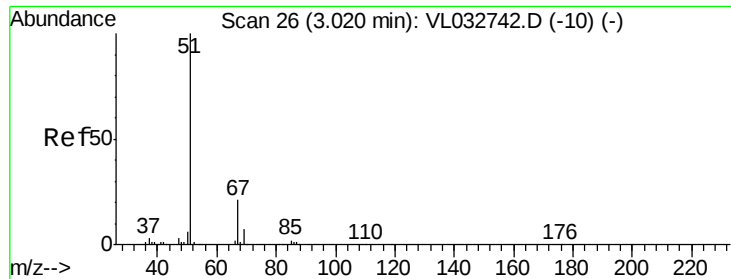
87 38.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

Instrument :

MSVOA_L

ClientSampleId :

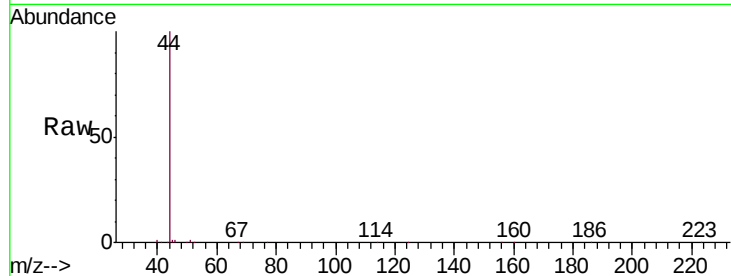
MMSV-01DL

Tgt Ion: 51 Resp: 5346

Ion Ratio Lower Upper

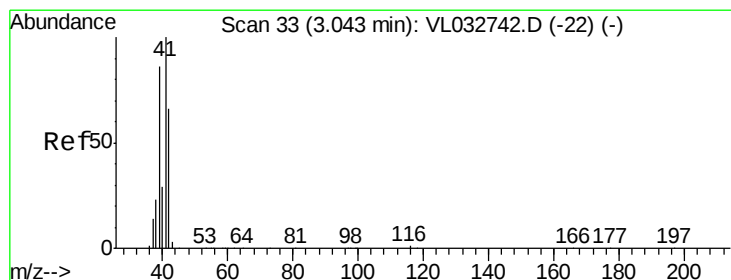
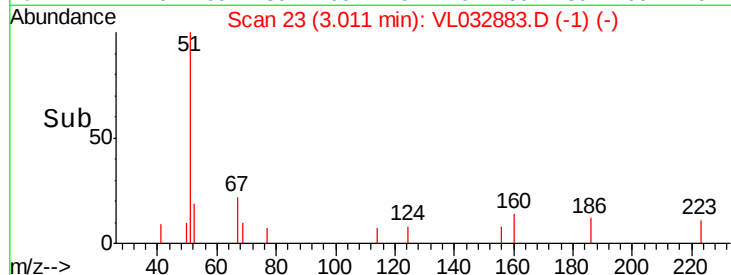
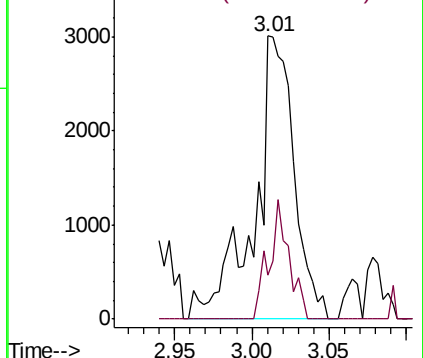
51 100

67 21.4 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.163 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032883.D

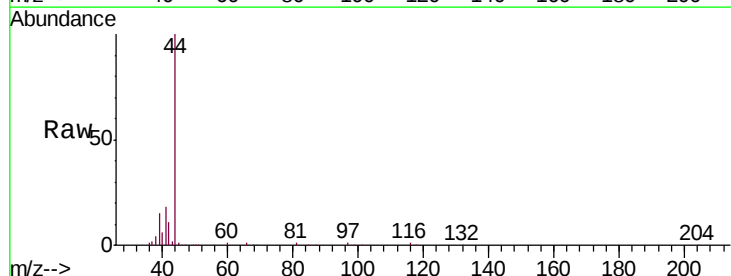
Acq: 4 Dec 2018 19:23

Tgt Ion: 41 Resp: 56036

Ion Ratio Lower Upper

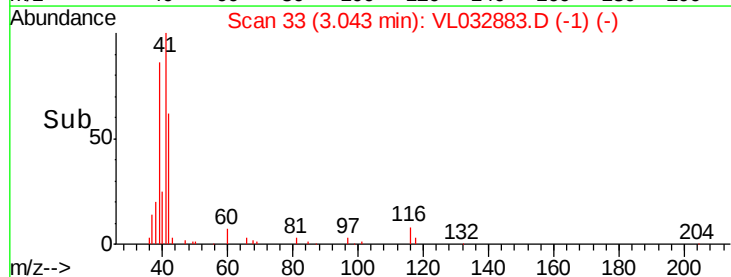
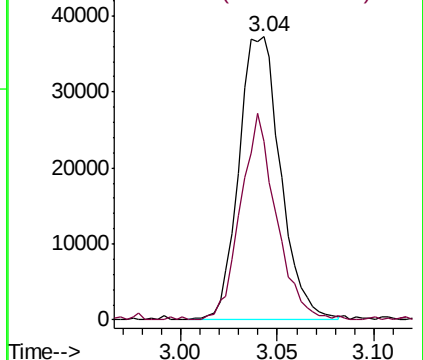
41 100

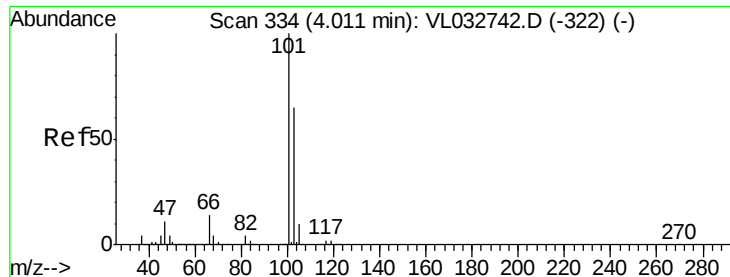
42 62.4 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

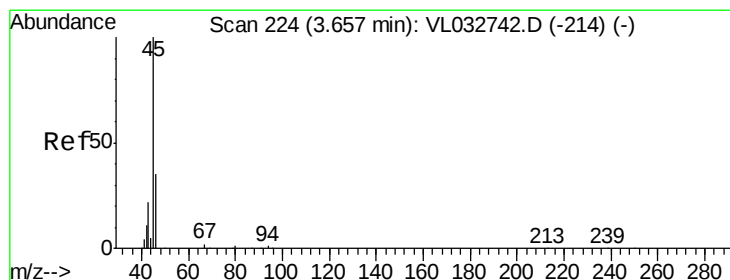
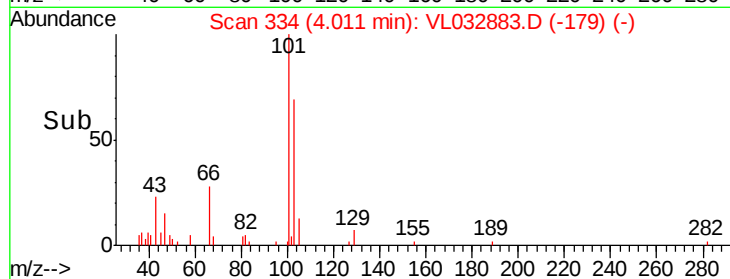
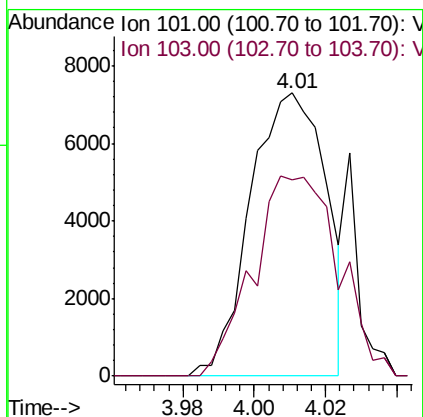
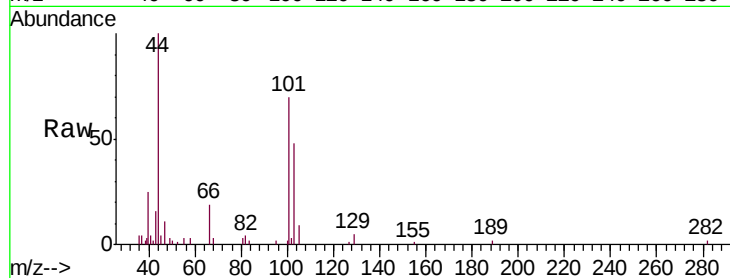




#11
 Trichlorofluoromethane
 Concen: 0.052 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032883.D
 Acq: 4 Dec 2018 19:23

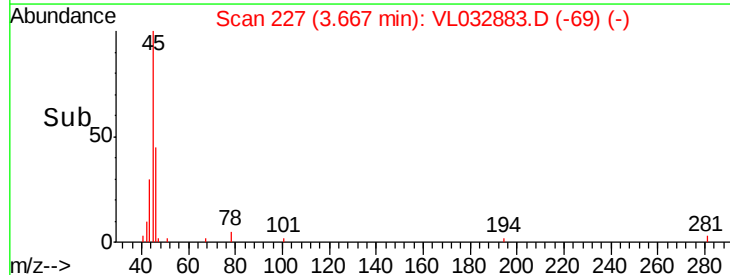
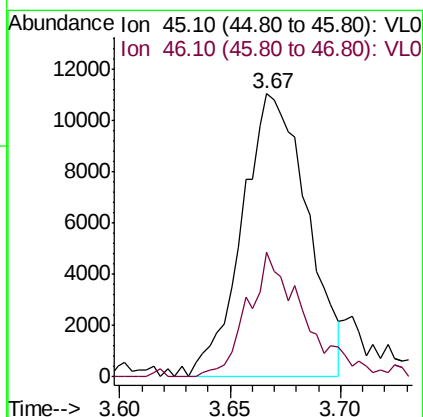
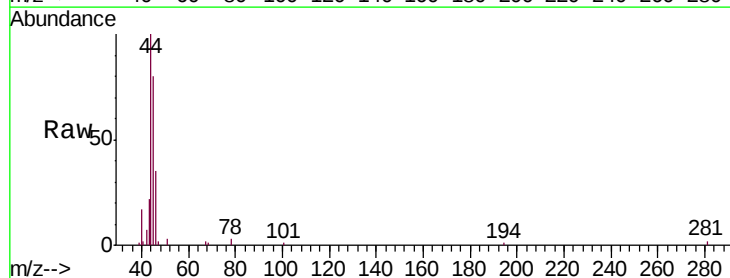
Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-01DL

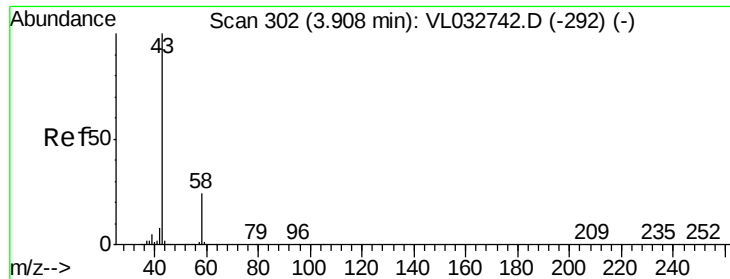
Tgt Ion: 101 Resp: 10679
 Ion Ratio Lower Upper
 101 100
 103 69.4 51.6 77.4



#13
 Ethanol
 Concen: 1.431 ppbv
 RT: 3.67 min Scan# 227
 Delta R.T. 0.01 min
 Lab File: VL032883.D
 Acq: 4 Dec 2018 19:23

Tgt Ion: 45 Resp: 22573
 Ion Ratio Lower Upper
 45 100
 46 39.0 14.5 57.9





#15

Acetone

Concen: 1.522 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

Instrument :

MSVOA_L

ClientSampleId :

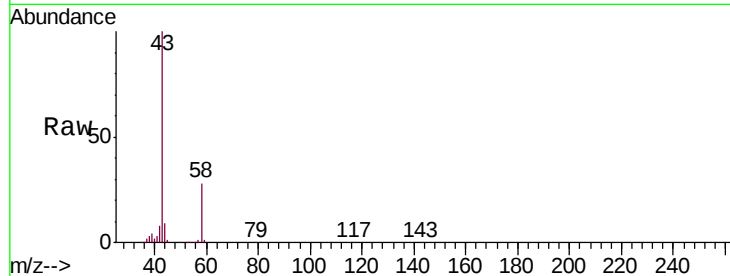
MMSV-01DL

Tgt Ion: 43 Resp: 211016

Ion Ratio Lower Upper

43 100

58 37.2 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

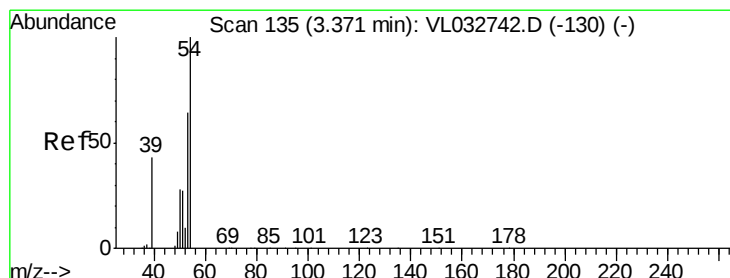
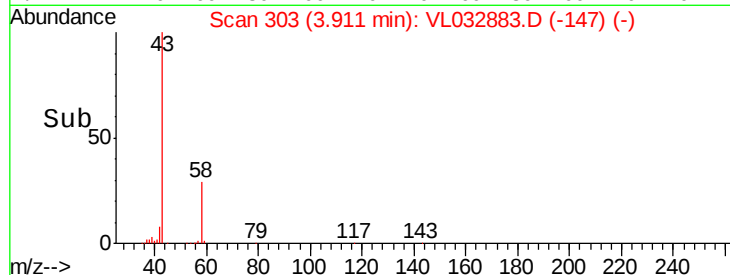
100000

50000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 1.403 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032883.D

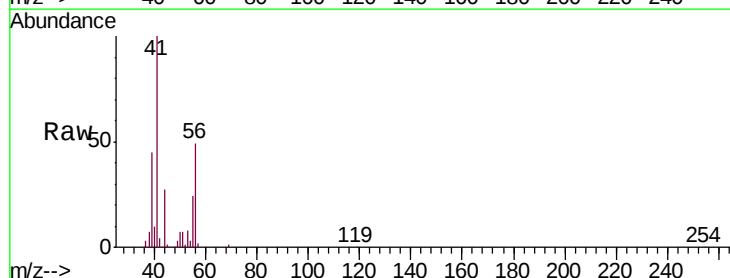
Acq: 4 Dec 2018 19:23

Tgt Ion: 39 Resp: 75365

Ion Ratio Lower Upper

39 100

54 8.1 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

50000

40000

30000

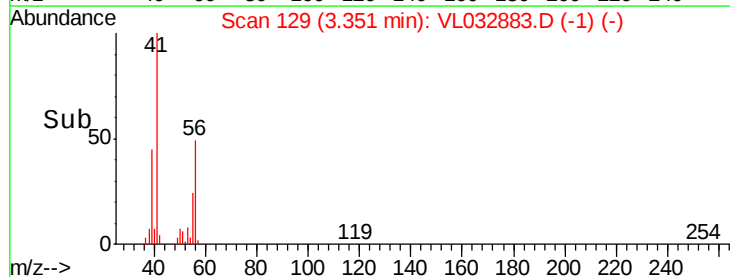
20000

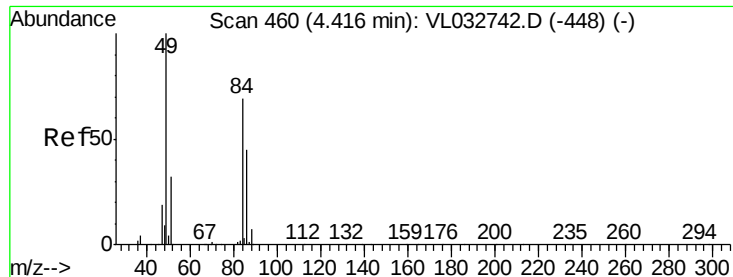
10000

0

3.30 3.35 3.40

Time-->

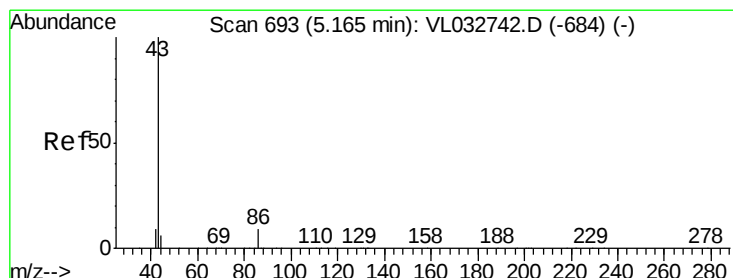
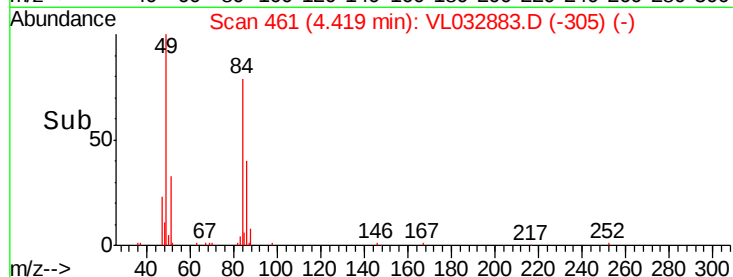
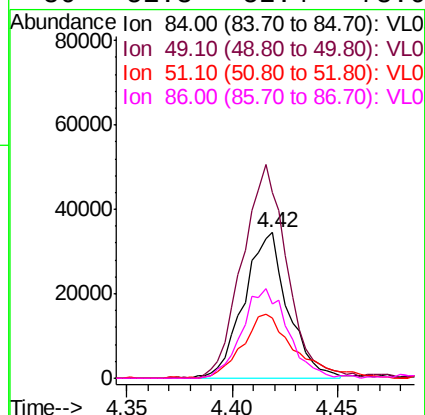
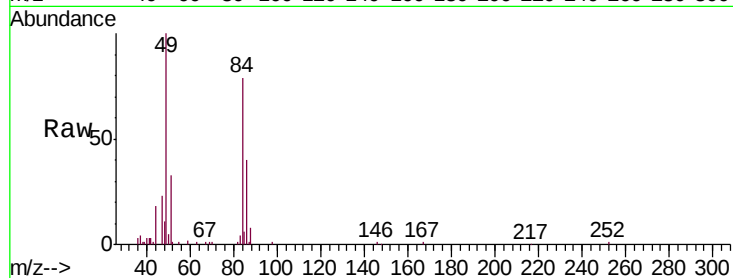




#20
Methylene Chloride
Concen: 0.699 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032883.D
Acq: 4 Dec 2018 19:23

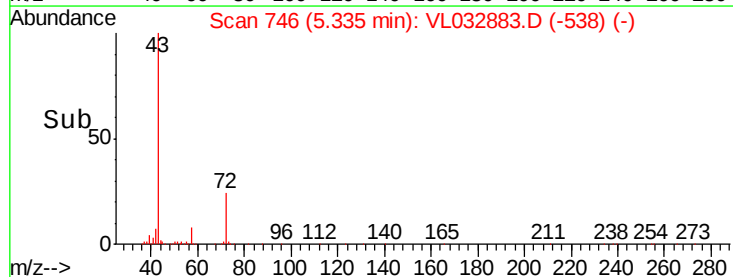
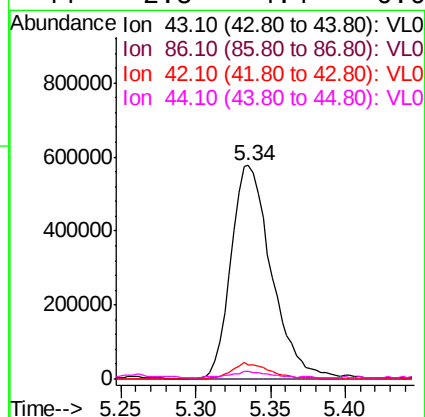
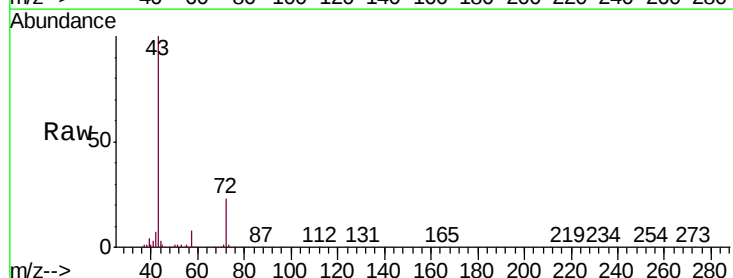
Instrument :
MSVOA_L
ClientSampleId :
MMSV-01DL

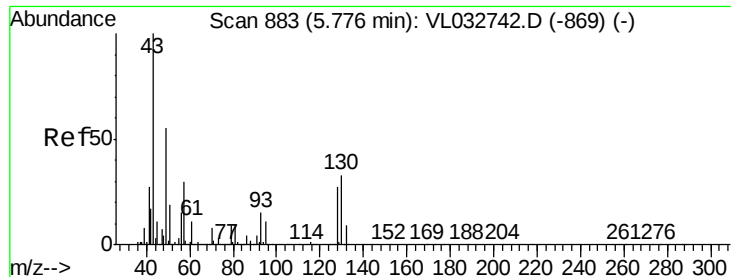
Tgt Ion: 84 Resp: 50207
Ion Ratio Lower Upper
84 100
49 127.3 115.8 173.6
51 40.8 36.9 55.3
86 51.3 52.4 78.6#



#23
Vinyl Acetate
Concen: 4.306 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.17 min
Lab File: VL032883.D
Acq: 4 Dec 2018 19:23

Tgt Ion: 43 Resp: 1088500
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#
42 6.6 7.8 11.6#
44 2.5 4.4 6.6#

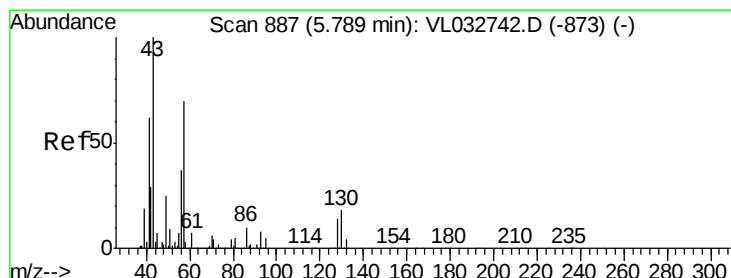
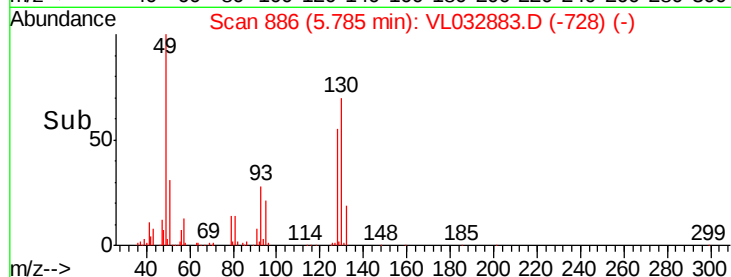
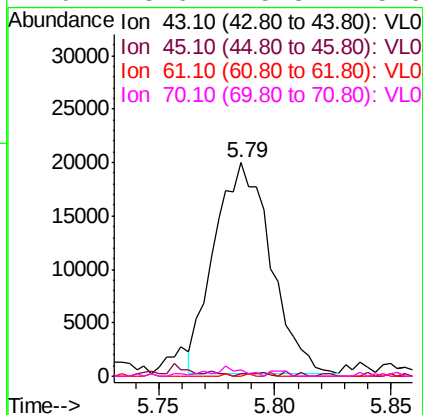
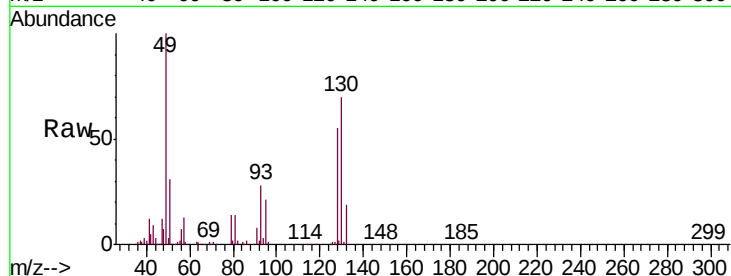




#25
Ethyl Acetate
Concen: 0.103 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032883.D
Acq: 4 Dec 2018 19:23

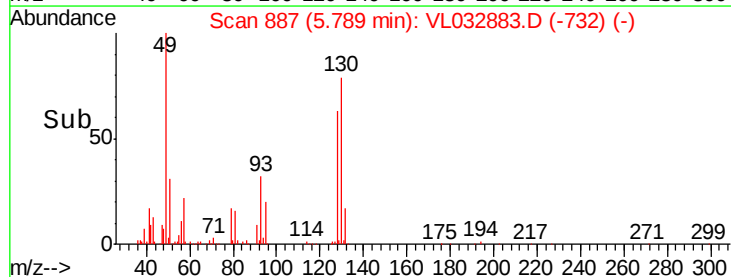
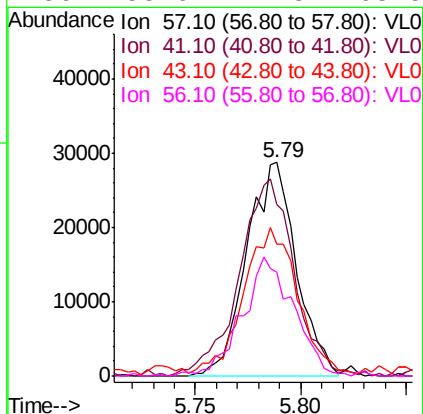
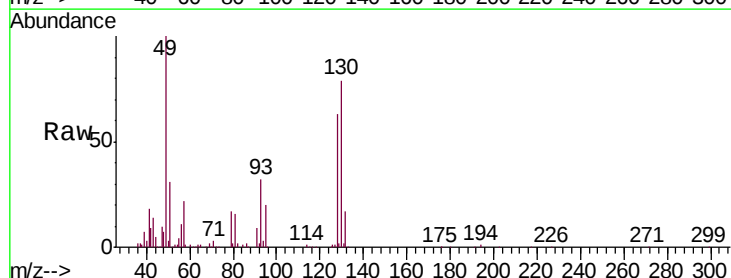
Instrument :
MSVOA_L
ClientSampleId :
MMSV-01DL

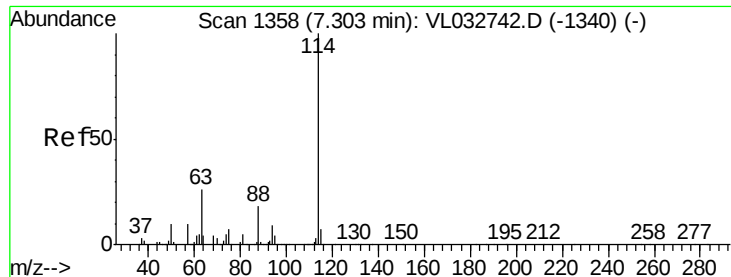
Tgt Ion:	43	Resp:	33311
Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.9	11.9#
61	0.0	7.8	11.6#
70	3.6	5.8	8.6#



#26
Hexane
Concen: 0.327 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032883.D
Acq: 4 Dec 2018 19:23

Tgt Ion:	57	Resp:	47051
Ion	Ratio	Lower	Upper
57	100		
41	103.5	70.3	105.5
43	76.5	174.0	261.0#
56	58.6	42.3	63.5

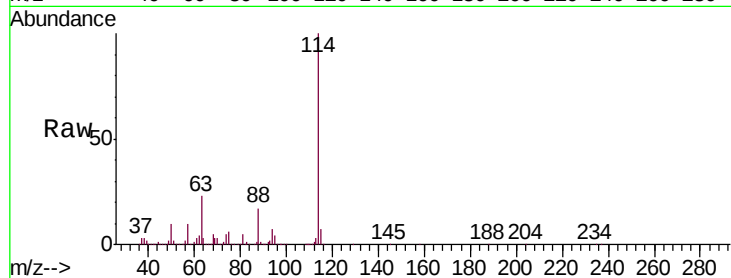




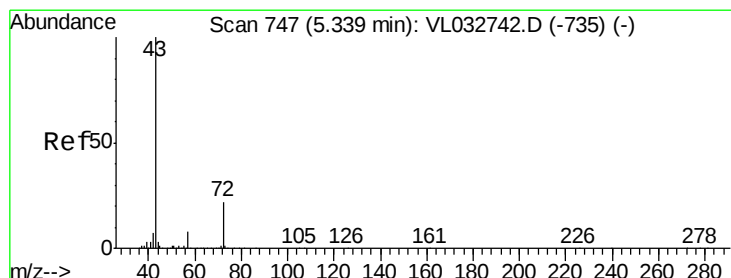
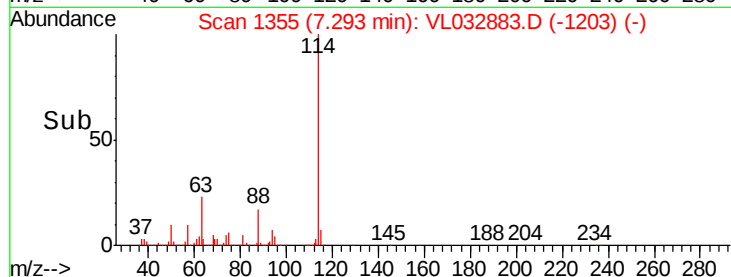
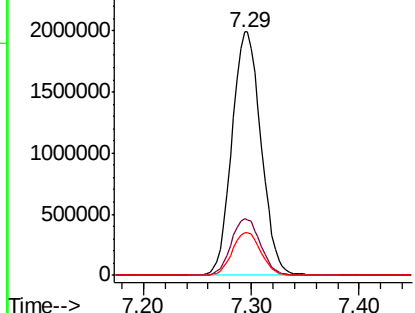
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032883.D
 Acq: 4 Dec 2018 19:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-01DL

Tgt Ion:114 Resp: 3734757
 Ion Ratio Lower Upper
 114 100
 63 23.5 20.9 31.3
 88 17.4 14.4 21.6

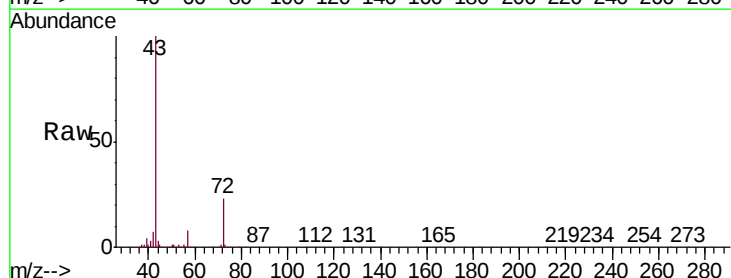


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

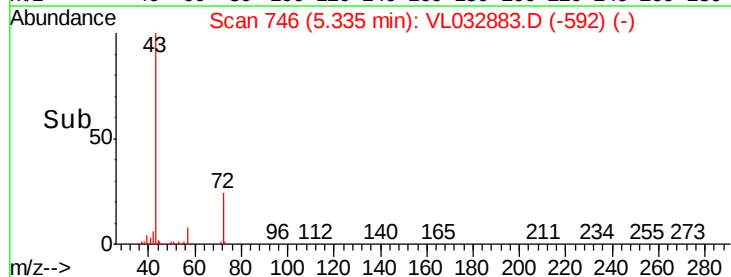
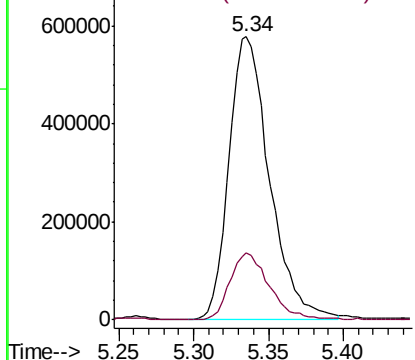


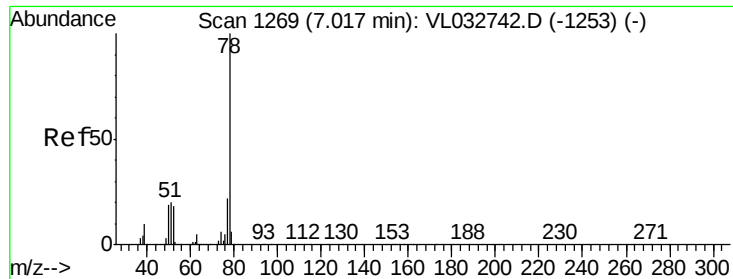
#34
 2-Butanone
 Concen: 5.619 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032883.D
 Acq: 4 Dec 2018 19:23

Tgt Ion: 43 Resp: 1088500
 Ion Ratio Lower Upper
 43 100
 72 23.5 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.065 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

Instrument :

MSVOA_L

ClientSampleId :

MMSV-01DL

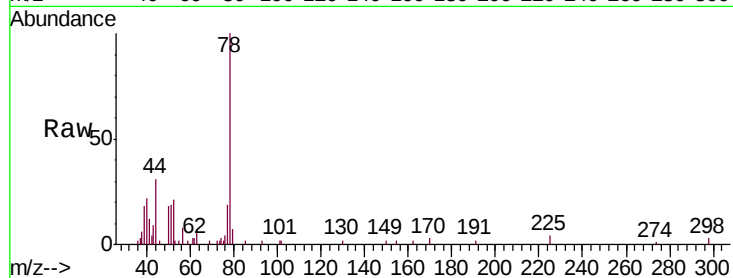
Tgt Ion: 78 Resp: 19321

Ion Ratio Lower Upper

78 100

77 18.6 17.8 26.8

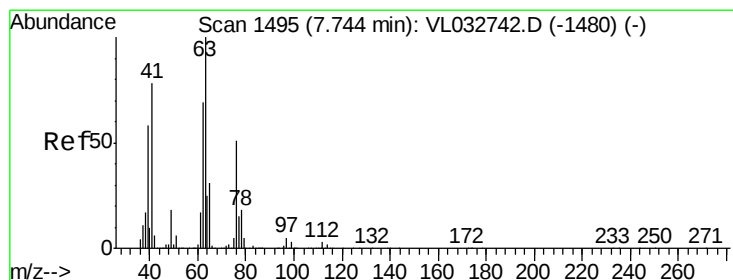
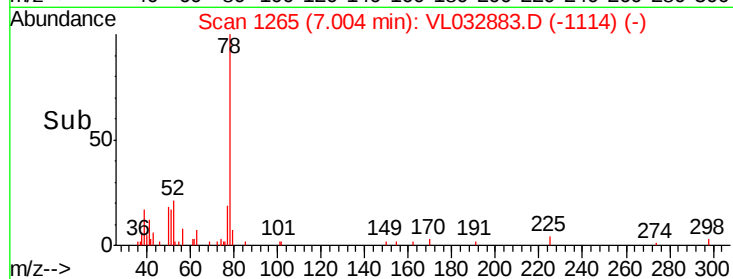
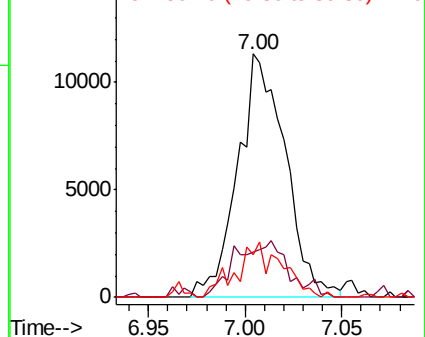
50 17.6 15.4 23.0



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



#39

1,2-Dichloropropane

Concen: 7.712 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

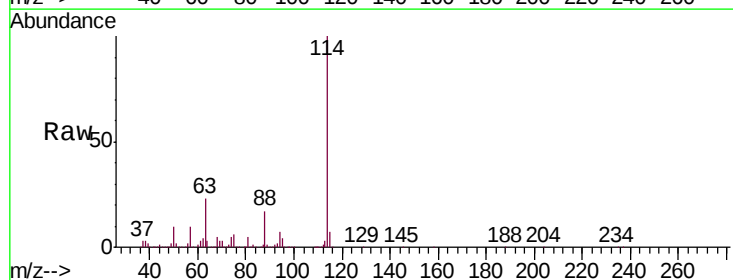
Tgt Ion: 63 Resp: 873883

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

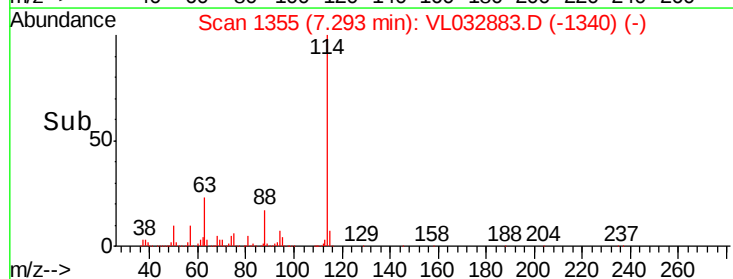
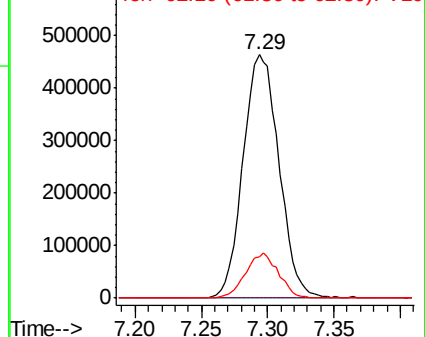
62 17.0 55.4 83.2#

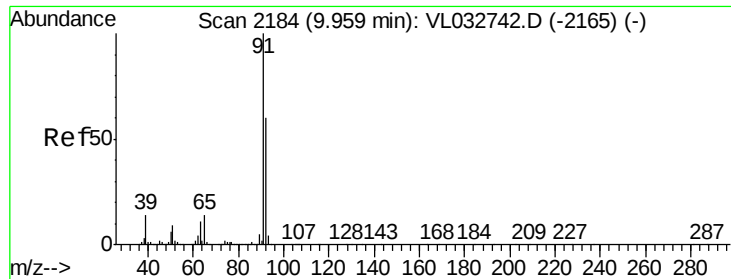


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.062 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

Instrument :

MSVOA_L

ClientSampleId :

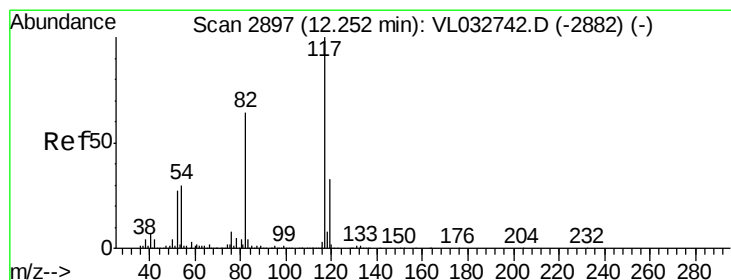
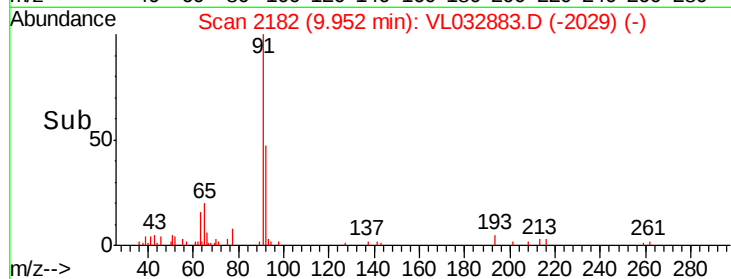
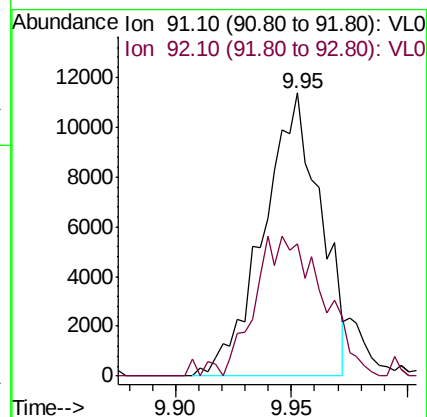
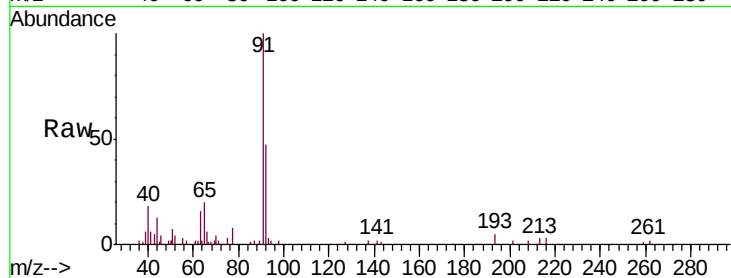
MMSV-01DL

Tgt Ion: 91 Resp: 19370

Ion Ratio Lower Upper

91 100

92 60.9 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

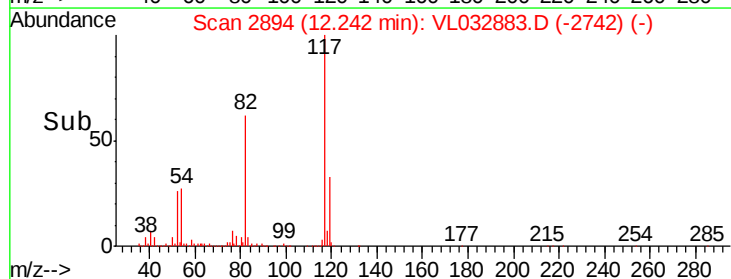
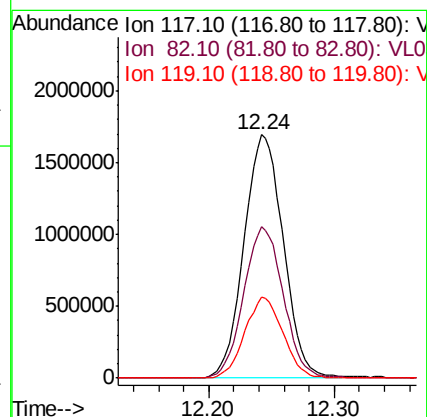
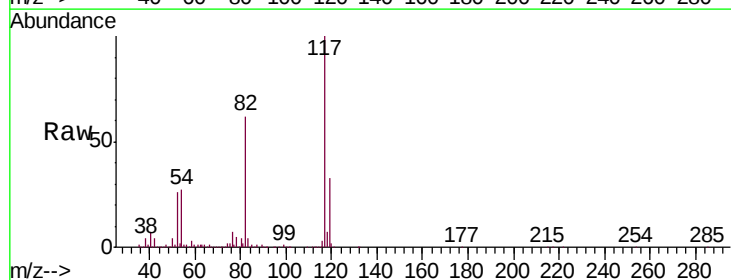
Tgt Ion: 117 Resp: 3692450

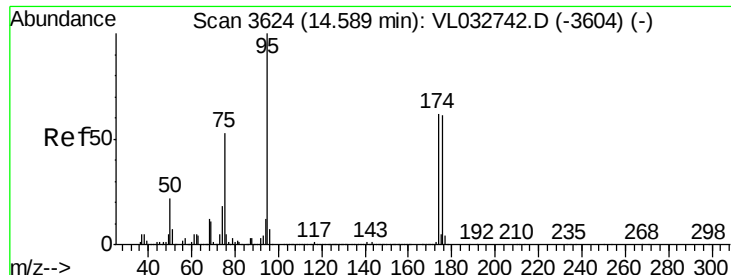
Ion Ratio Lower Upper

117 100

82 62.6 51.0 76.6

119 32.4 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.610 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032883.D

Acq: 4 Dec 2018 19:23

Instrument :

MSVOA_L

ClientSampleId :

MMSV-01DL

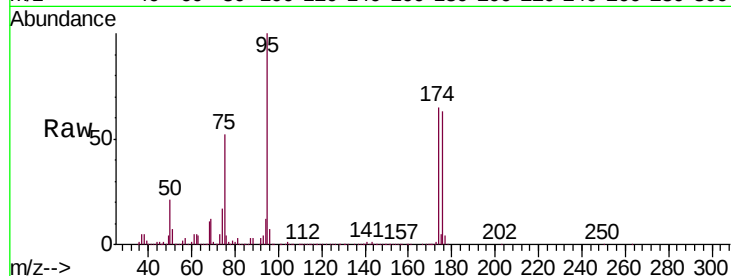
Tgt Ion: 95 Resp: 2654175

Ion Ratio Lower Upper

95 100

174 67.6 50.7 76.1

175 5.1 3.8 5.6



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

