

Data File : VL032862.D
Acq On : 30 Nov 2018 23:34
Operator : SY/AP
Sample : J6132-05 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DSV-04DL

Quant Time: Dec 01 02:27:33 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	1439955	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3571723	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3460555	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2629864	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

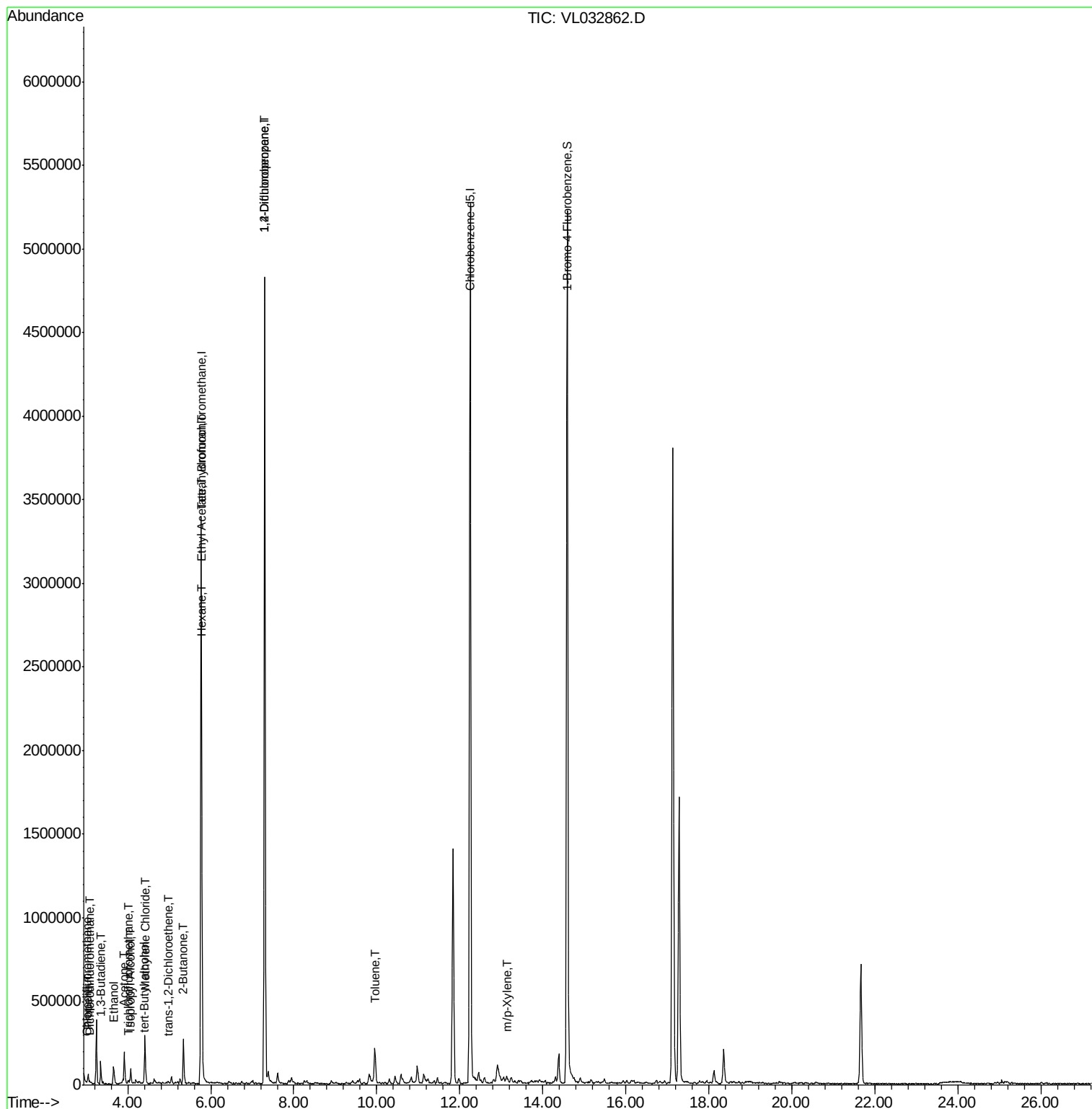
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	12202	0.059	ppbv #	80
3) Chlorodifluoromethane	3.01	51	6576	0.058	ppbv #	81
9) Propene	3.04	41	16093	0.352	ppbv	97
11) Trichlorofluoromethane	4.01	101	8596	0.044	ppbv #	79
13) Ethanol	3.66	45	116545	7.789	ppbv	98
15) Acetone	3.91	43	174081	1.324	ppbv #	67
16) 1,3-Butadiene	3.35	39	31503	0.619	ppbv #	15
17) tert-Butyl alcohol	4.38	59	4937	0.120	ppbv #	73
19) Isopropyl Alcohol	4.05	45	10491	0.120	ppbv #	1
20) Methylene Chloride	4.42	84	88521	1.300	ppbv	94
22) trans-1,2-Dichloroethene	4.97	96	3327	0.043	ppbv #	71
25) Ethyl Acetate	5.79	43	164835	0.538	ppbv #	79
26) Hexane	5.79	57	231759	1.699	ppbv #	44
34) 2-Butanone	5.34	43	303091	1.636	ppbv	97
39) 1,2-Dichloropropane	7.29	63	846312	7.810	ppbv #	23
41) Tetrahydrofuran	5.78	42	88971	0.837	ppbv #	50
53) Toluene	9.95	91	133376	0.450	ppbv	99
59) m/p-Xylene	13.13	91	11474	0.031	ppbv #	5

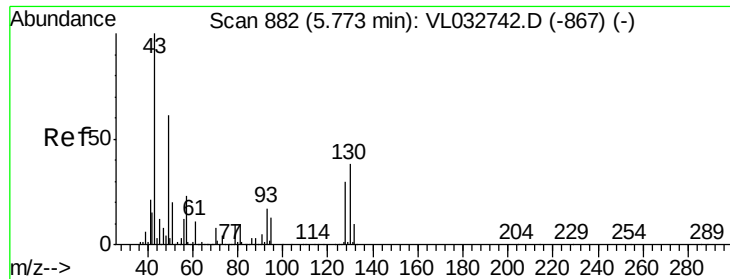
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 :

DSV-04DL

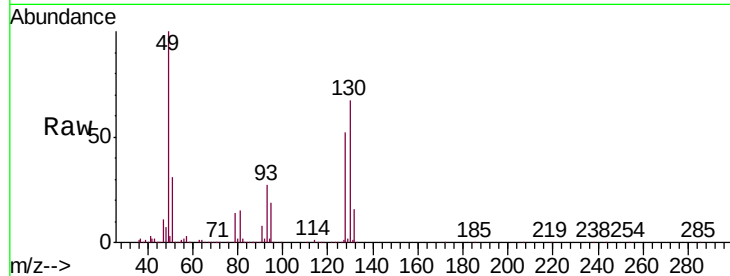
Tgt Ion: 49 Resp: 1439955

Ion Ratio Lower Upper

49 100

128 53.8 24.9 74.6

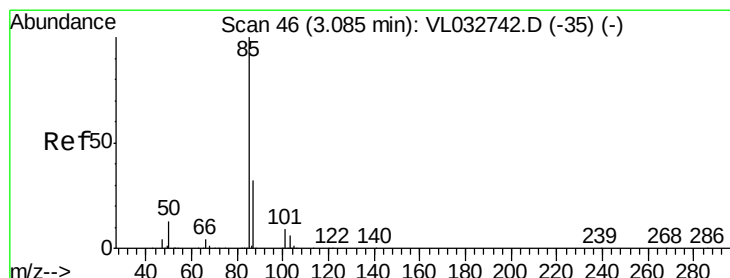
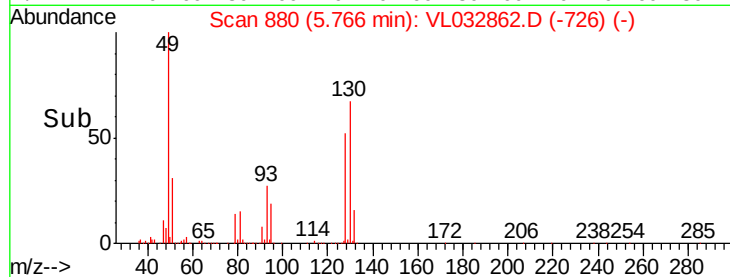
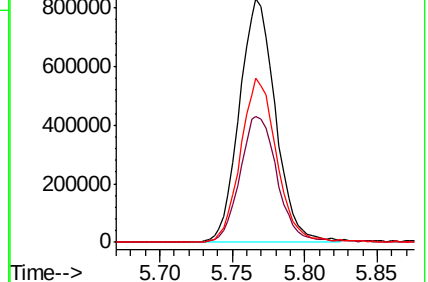
130 68.0 31.4 94.2



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: 0.059 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032862.D

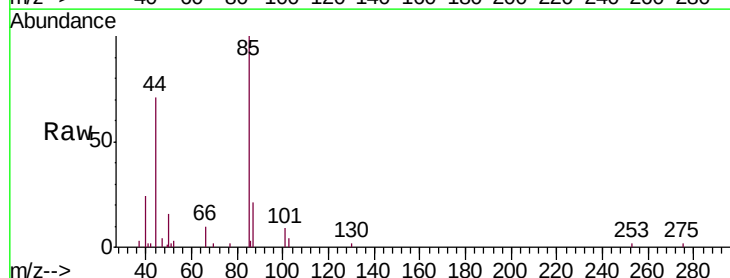
Acq: 30 Nov 2018 23:34

Tgt Ion: 85 Resp: 12202

Ion Ratio Lower Upper

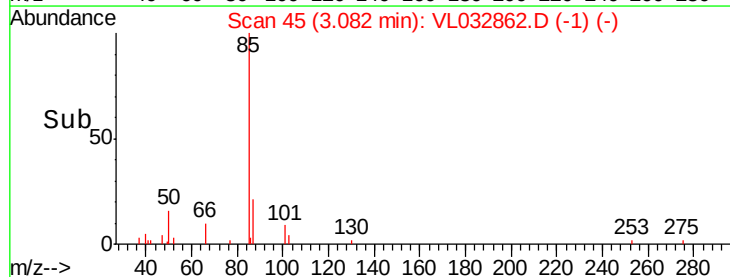
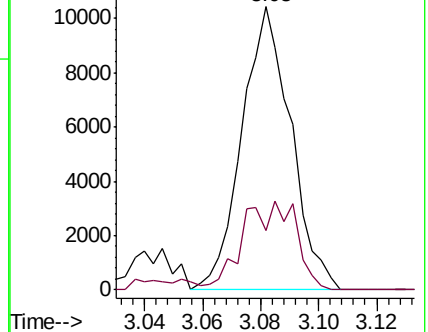
85 100

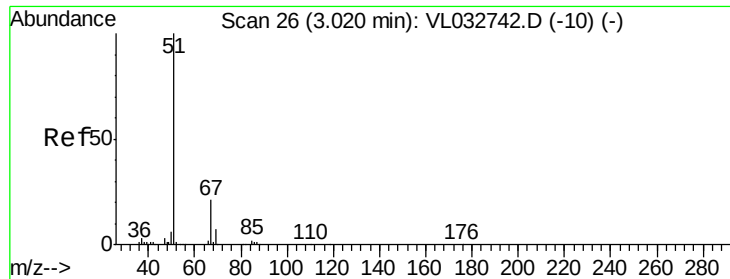
87 21.0 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

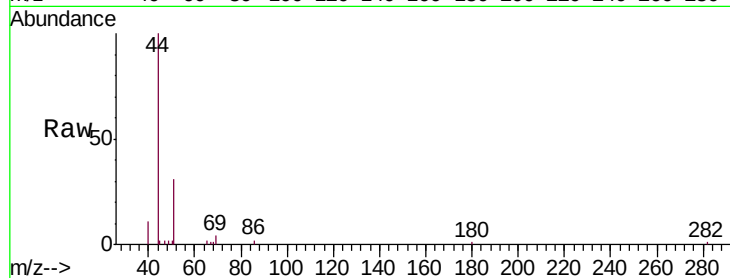
DSV-04DL

Tgt Ion: 51 Resp: 6576

Ion Ratio Lower Upper

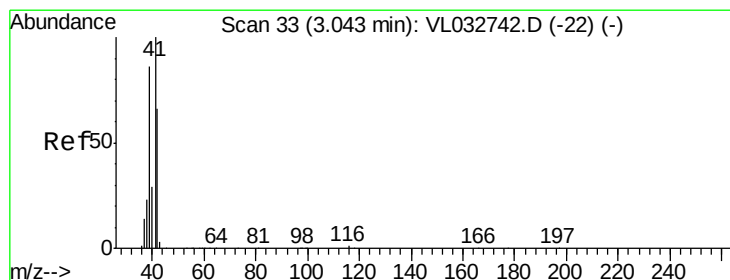
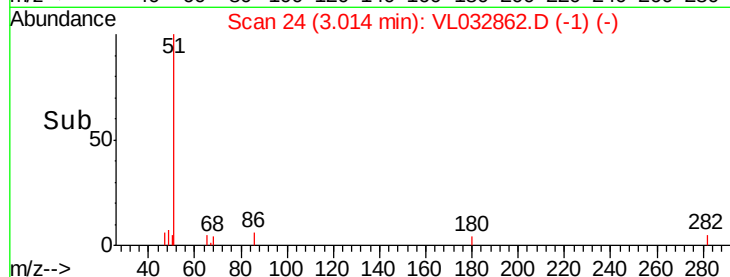
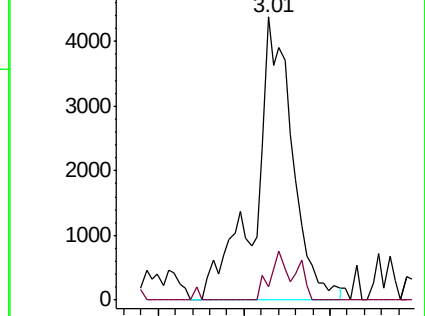
51 100

67 11.4 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: 0.352 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032862.D

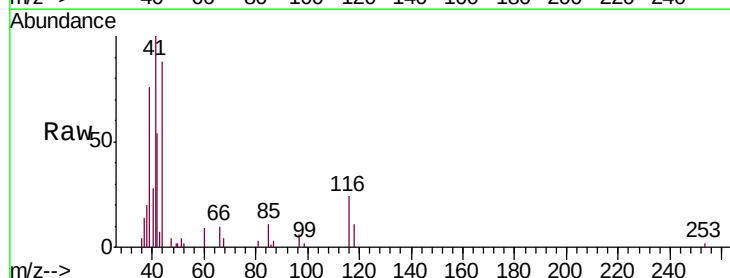
Acq: 30 Nov 2018 23:34

Tgt Ion: 41 Resp: 16093

Ion Ratio Lower Upper

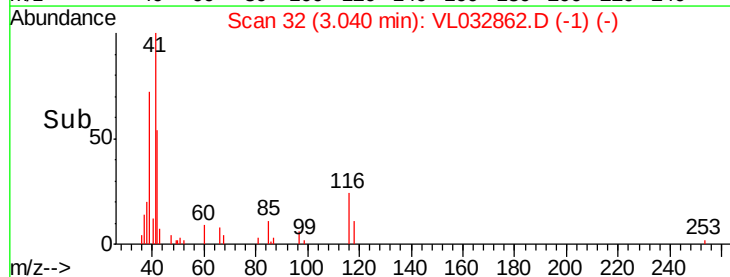
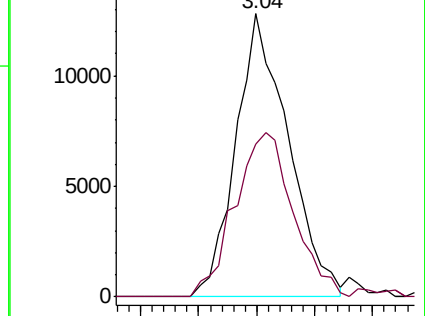
41 100

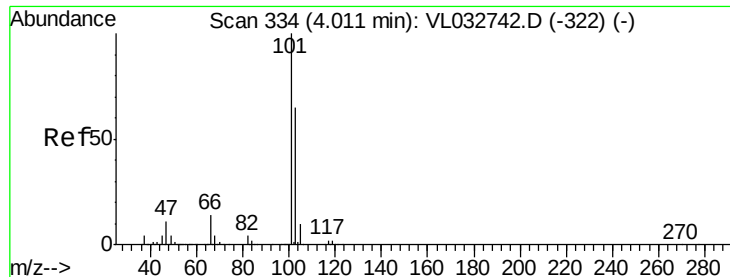
42 66.5 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

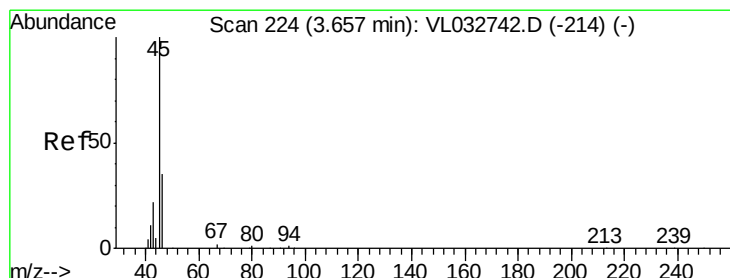
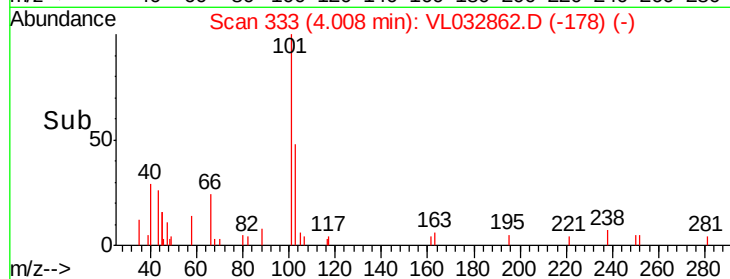
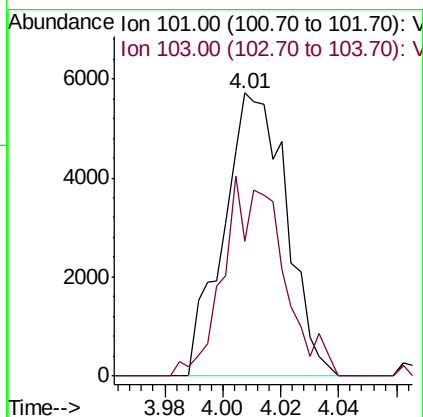
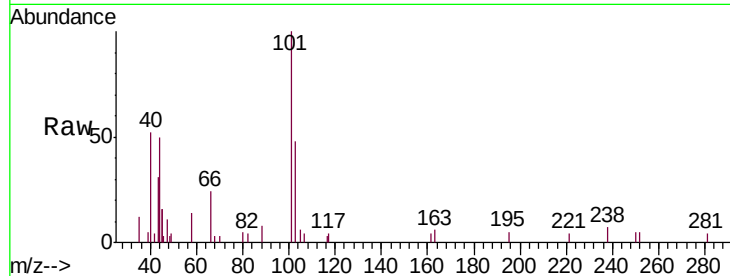




#11
 Trichlorofluoromethane
 Concen: 0.044 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032862.D
 Acq: 30 Nov 2018 23:34

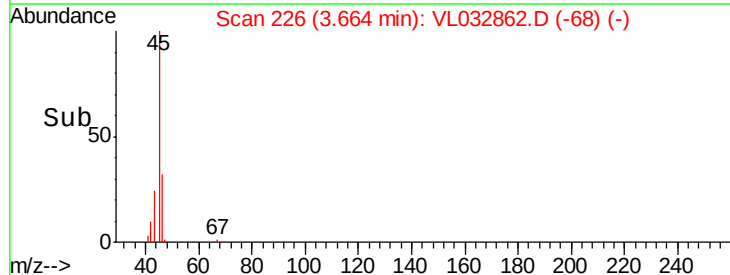
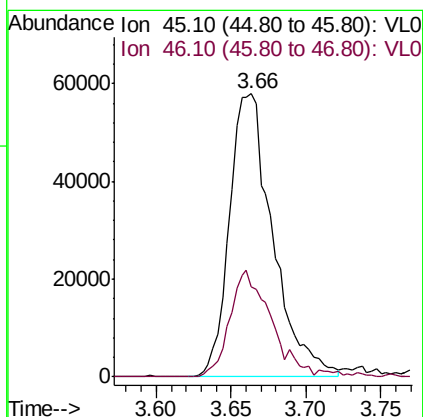
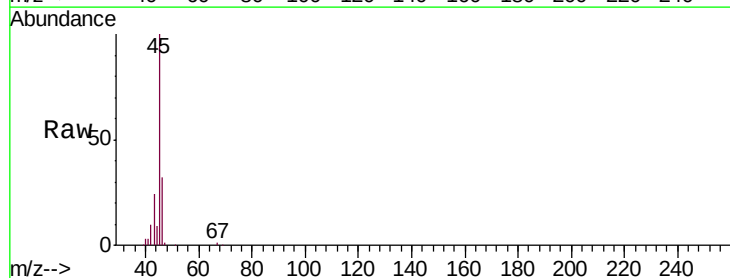
Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-04DL

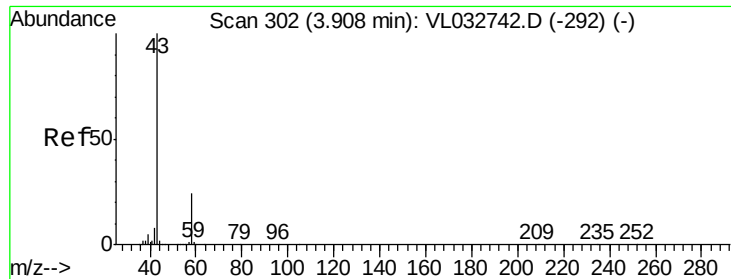
Tgt Ion: 101 Resp: 8596
 Ion Ratio Lower Upper
 101 100
 103 47.6 51.6 77.4#



#13
 Ethanol
 Concen: 7.789 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032862.D
 Acq: 30 Nov 2018 23:34

Tgt Ion: 45 Resp: 116545
 Ion Ratio Lower Upper
 45 100
 46 37.2 14.5 57.9





#15

Acetone

Concen: 1.324 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

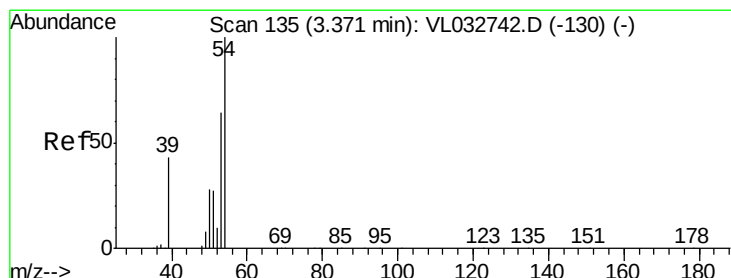
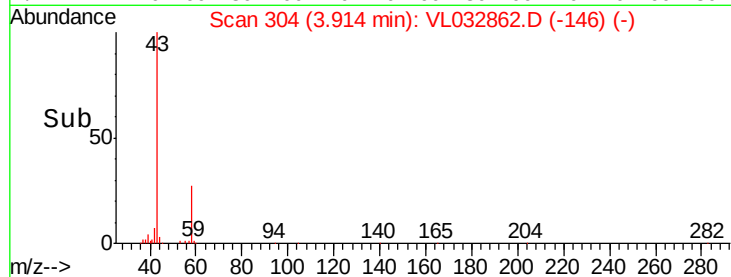
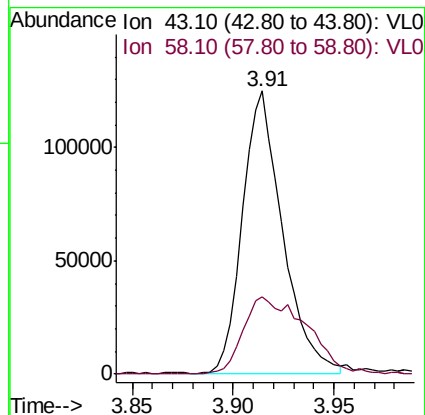
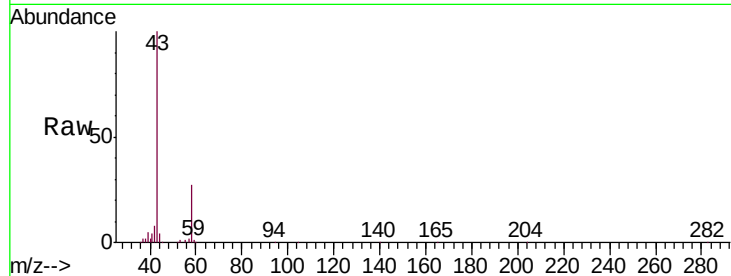
DSV-04DL

Tgt Ion: 43 Resp: 174081

Ion Ratio Lower Upper

43 100

58 43.3 21.1 31.7#



#16

1,3-Butadiene

Concen: 0.619 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032862.D

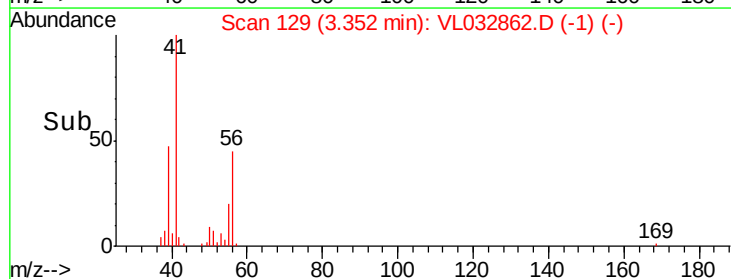
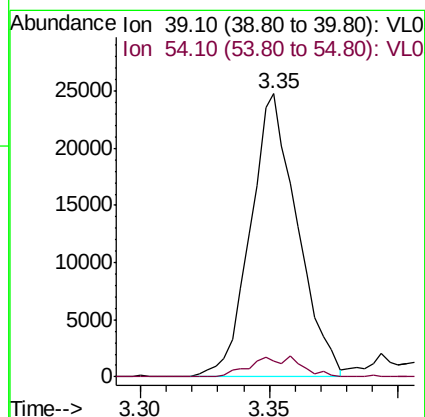
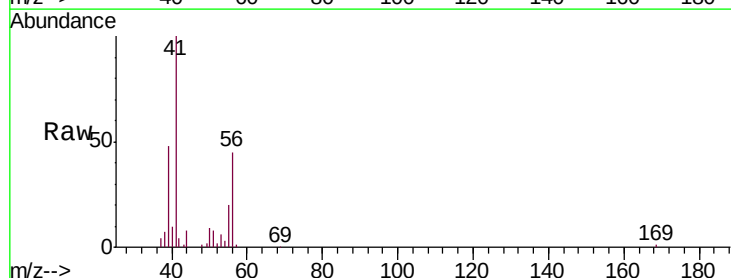
Acq: 30 Nov 2018 23:34

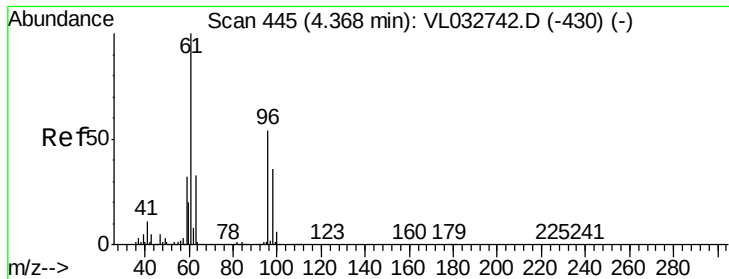
Tgt Ion: 39 Resp: 31503

Ion Ratio Lower Upper

39 100

54 7.9 68.9 103.3#





#17

tert-Butyl alcohol

Concen: 0.120 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.02 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

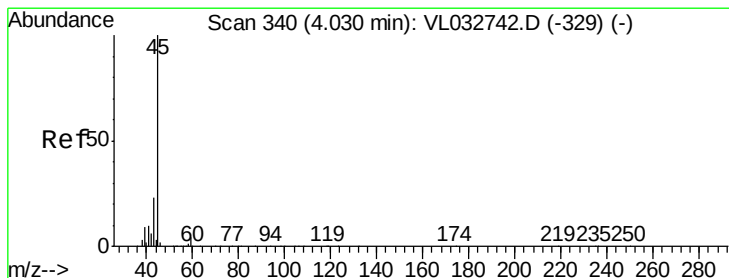
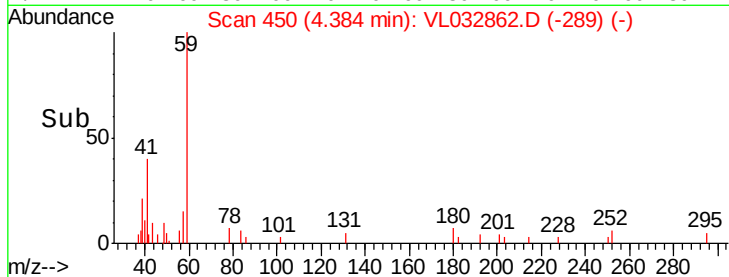
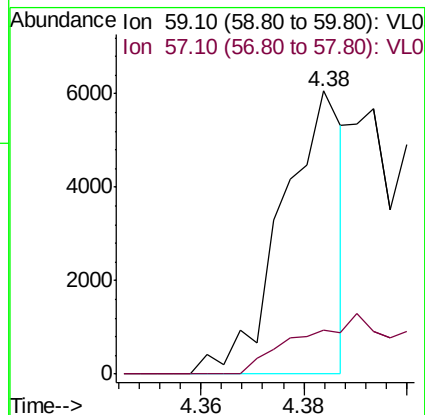
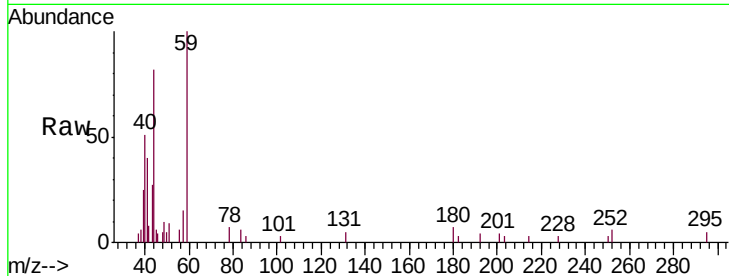
DSV-04DL

Tgt Ion: 59 Resp: 4937

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#19

Isopropyl Alcohol

Concen: 0.120 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032862.D

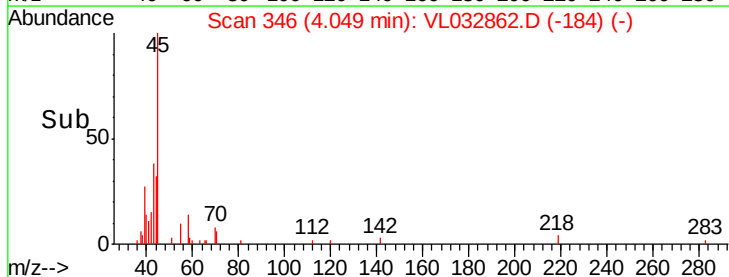
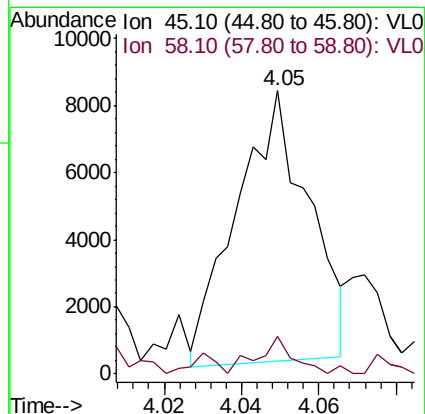
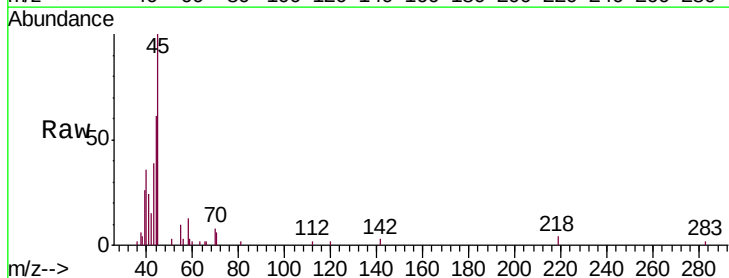
Acq: 30 Nov 2018 23:34

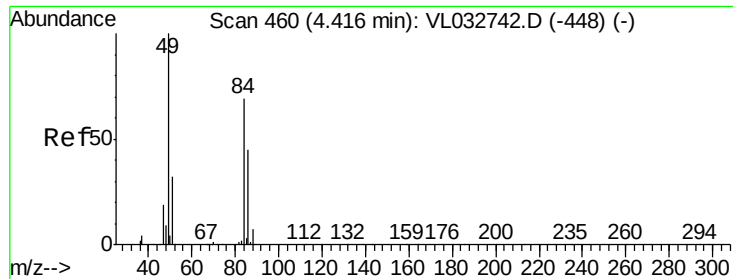
Tgt Ion: 45 Resp: 10491

Ion Ratio Lower Upper

45 100

58 710.5 1.4 2.0#

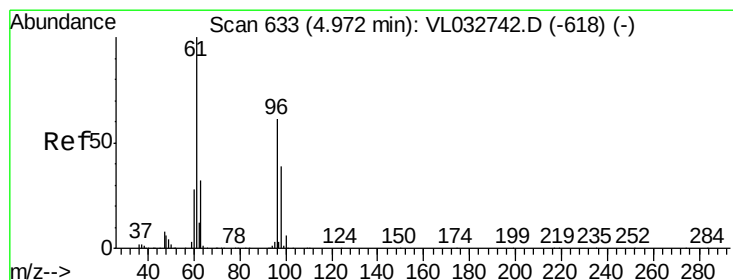
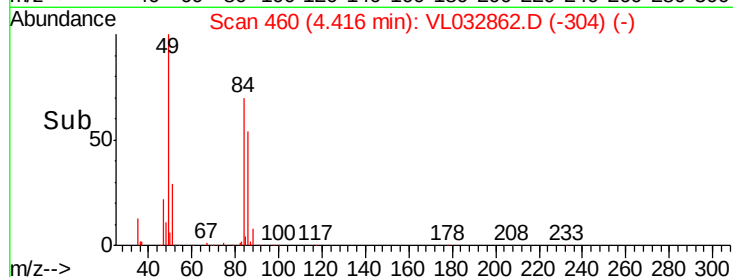
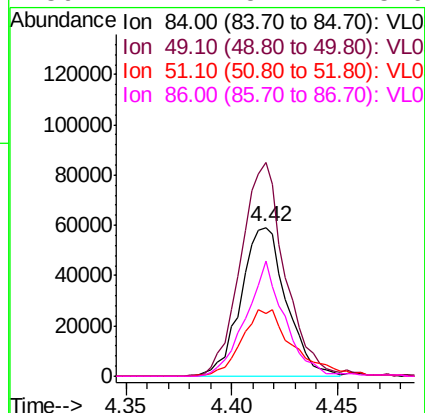
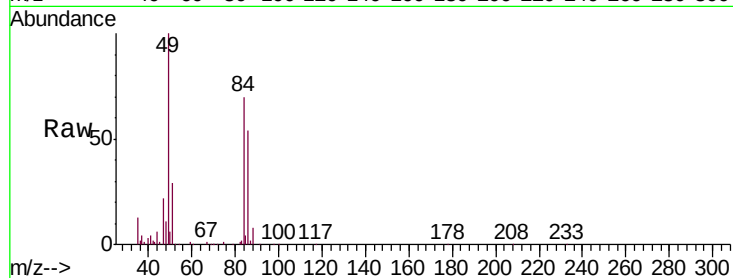




#20
Methylene Chloride
Concen: 1.300 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032862.D
Acq: 30 Nov 2018 23:34

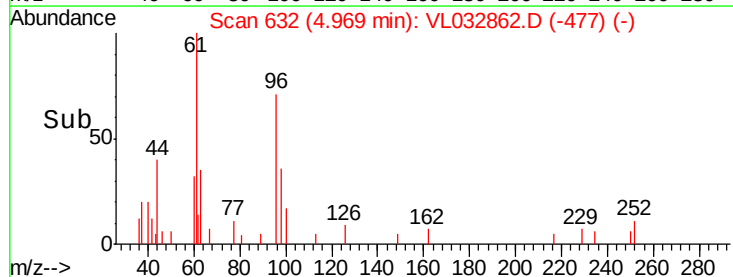
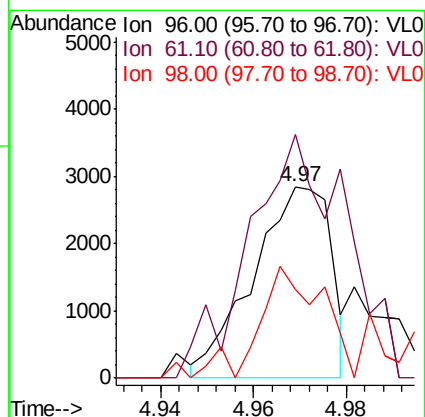
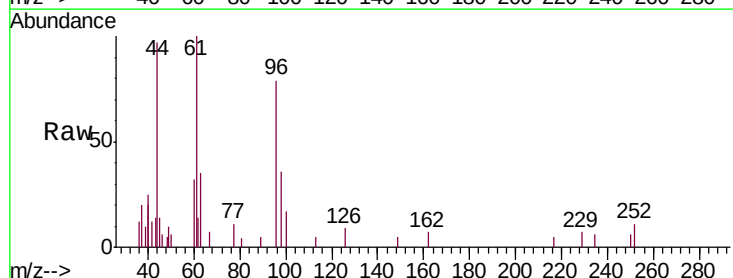
Instrument :
MSVOA_L
ClientSampleId :
DSV-04DL

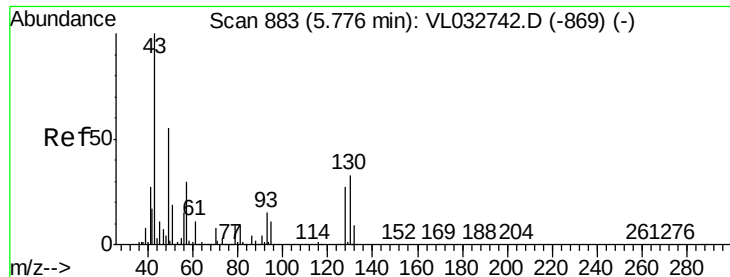
Tgt Ion:	84	Resp:	88521
Ion	Ratio	Lower	Upper
84	100		
49	142.6	115.8	173.6
51	42.0	36.9	55.3
86	77.2	52.4	78.6



#22
trans-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 4.97 min Scan# 632
Delta R.T. -0.00 min
Lab File: VL032862.D
Acq: 30 Nov 2018 23:34

Tgt Ion:	96	Resp:	3327
Ion	Ratio	Lower	Upper
96	100		
61	118.6	130.2	195.2#
98	49.5	50.2	75.2#





#25

Ethyl Acetate

Concen: 0.538 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

DSV-04DL

Tgt Ion: 43 Resp: 164835

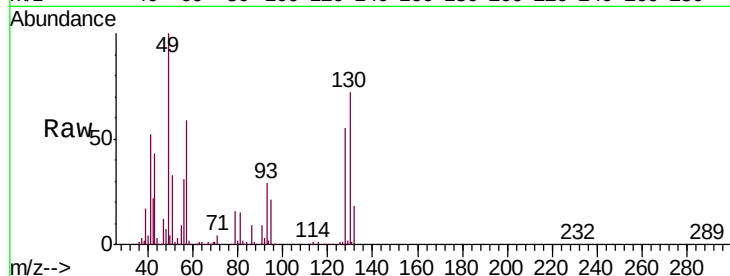
Ion Ratio Lower Upper

43 100

45 1.3 7.9 11.9#

61 0.8 7.8 11.6#

70 2.3 5.8 8.6#

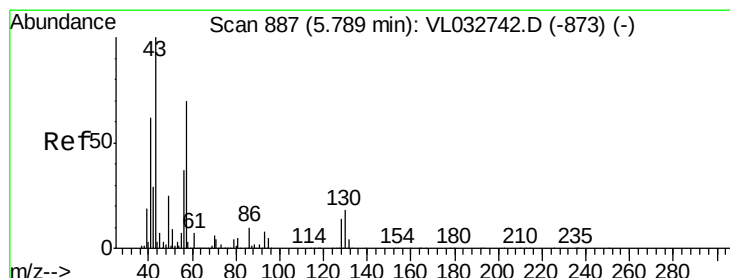
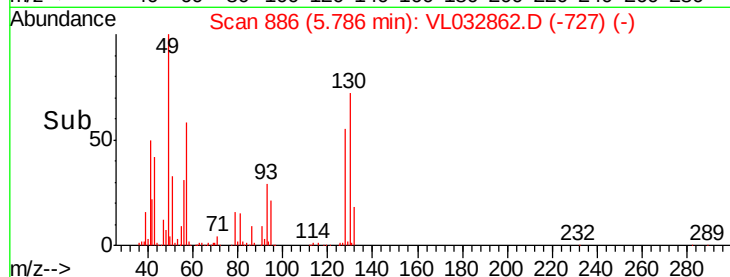
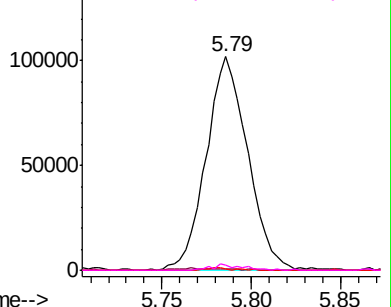


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.699 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Tgt Ion: 57 Resp: 231759

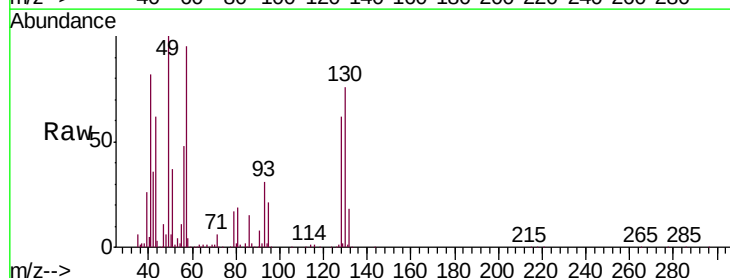
Ion Ratio Lower Upper

57 100

41 90.7 70.3 105.5

43 72.1 174.0 261.0#

56 54.9 42.3 63.5

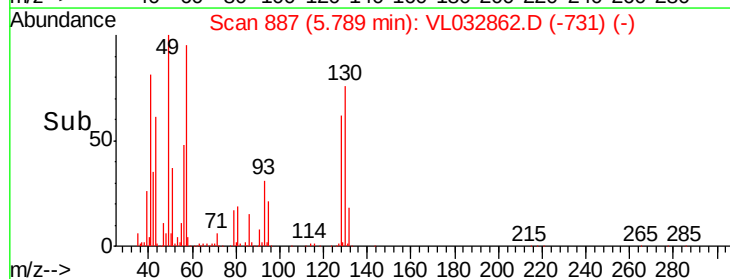
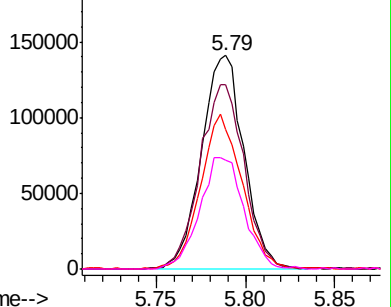


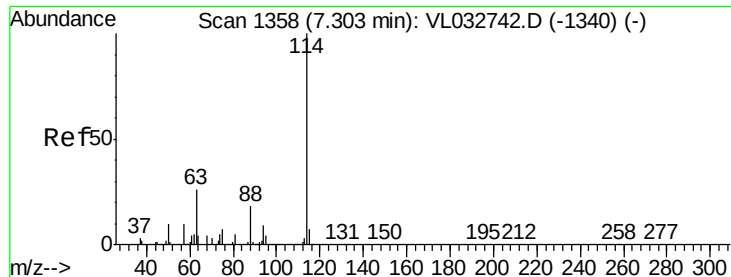
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

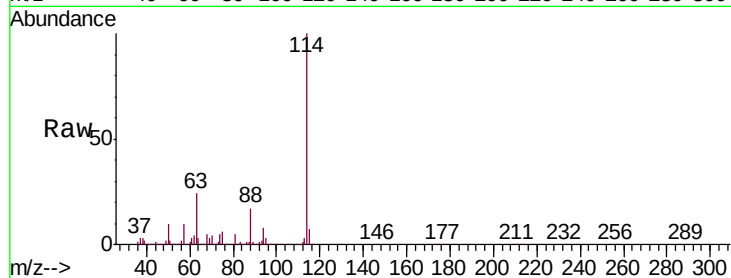




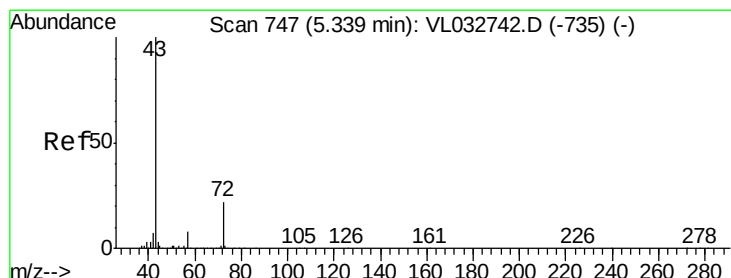
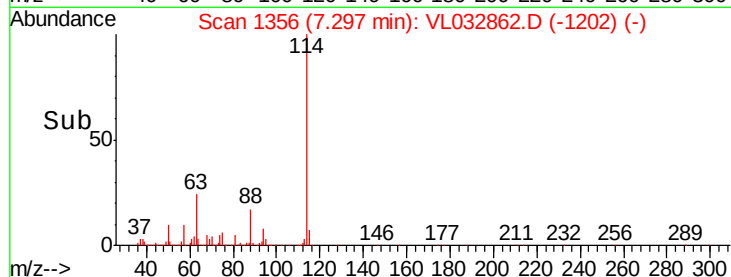
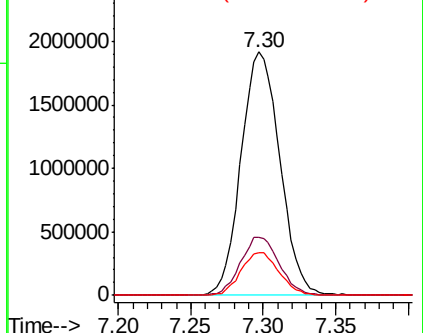
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032862.D
 Acq: 30 Nov 2018 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-04DL

Tgt Ion:114 Resp: 3571723
 Ion Ratio Lower Upper
 114 100
 63 23.8 20.9 31.3
 88 17.4 14.4 21.6

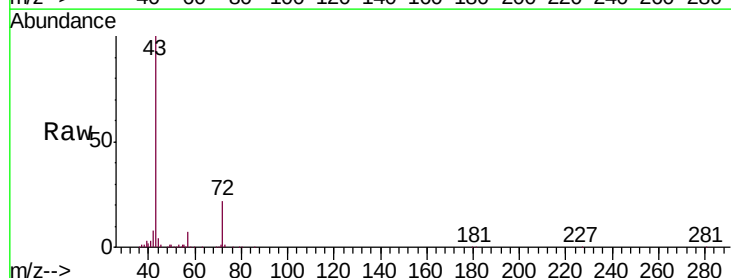


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

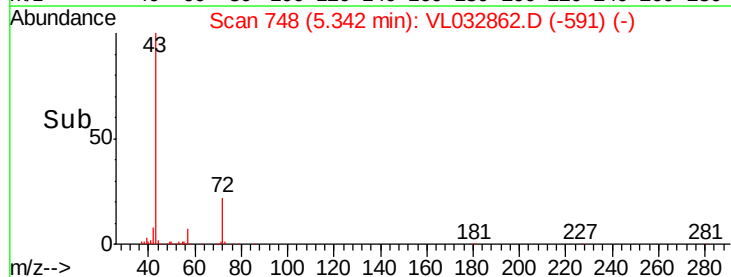
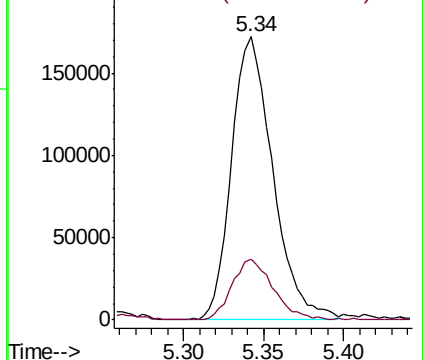


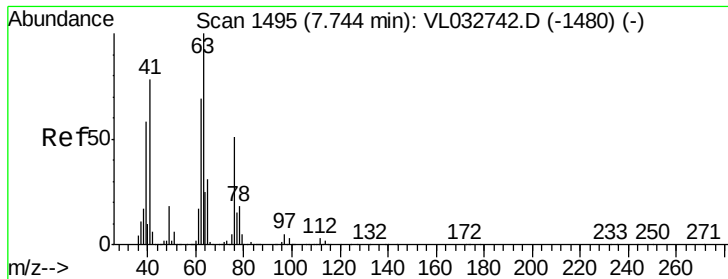
#34
 2-Butanone
 Concen: 1.636 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032862.D
 Acq: 30 Nov 2018 23:34

Tgt Ion: 43 Resp: 303091
 Ion Ratio Lower Upper
 43 100
 72 21.4 18.4 27.6



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





#39

1,2-Dichloropropane

Concen: 7.810 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

DSV-04DL

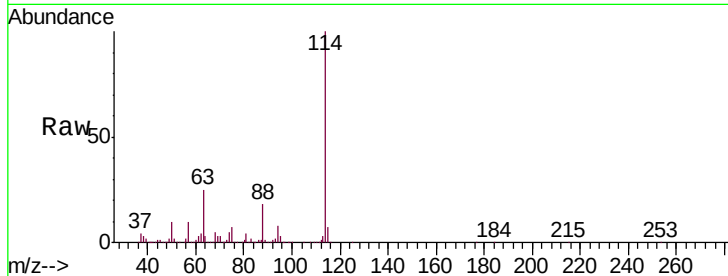
Tgt Ion: 63 Resp: 846312

Ion Ratio Lower Upper

63 100

41 0.2 62.0 93.0#

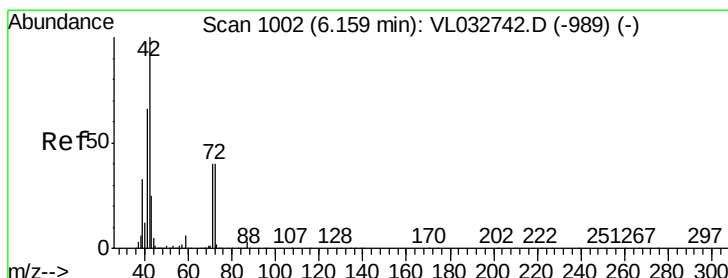
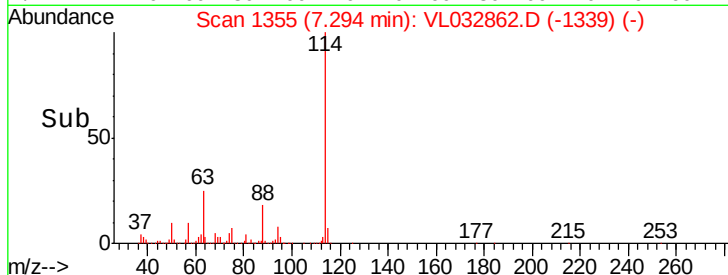
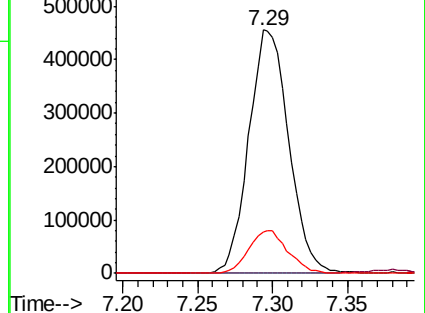
62 17.2 55.4 83.2#



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



#41

Tetrahydrofuran

Concen: 0.837 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.38 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

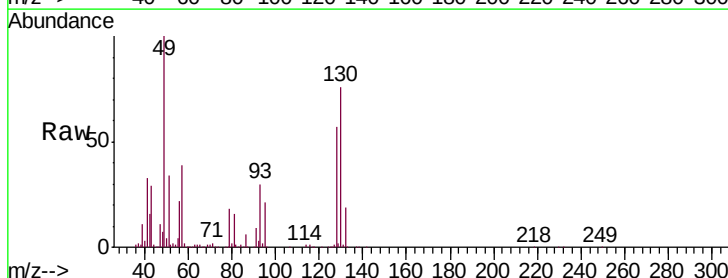
Tgt Ion: 42 Resp: 88971

Ion Ratio Lower Upper

42 100

72 1.3 32.4 48.6#

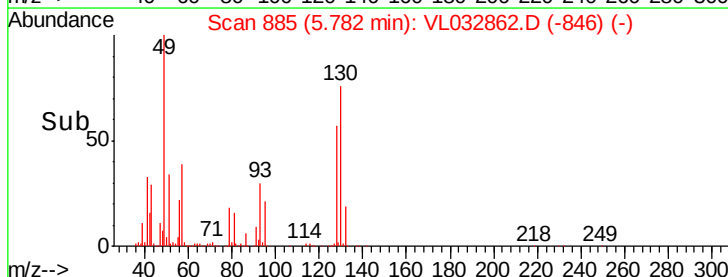
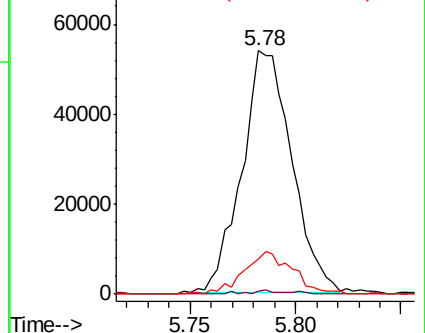
71 17.4 31.6 47.4#

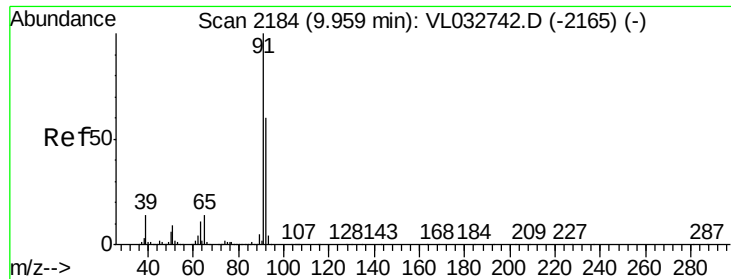


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.450 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

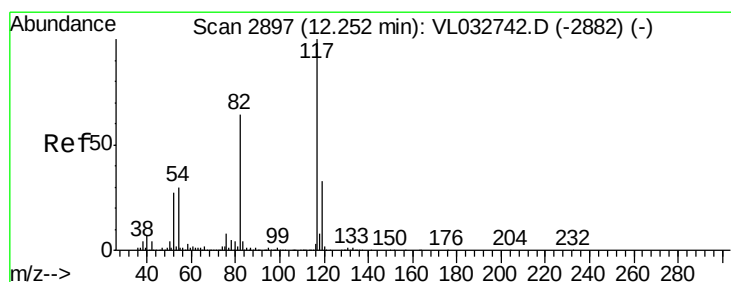
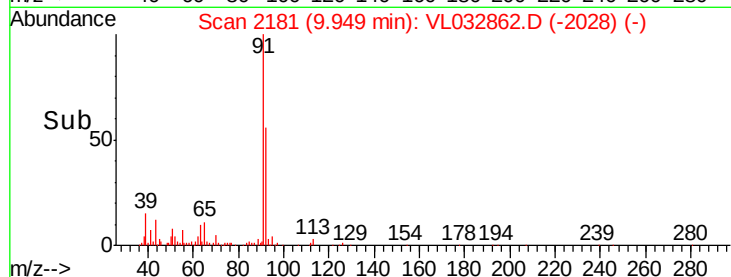
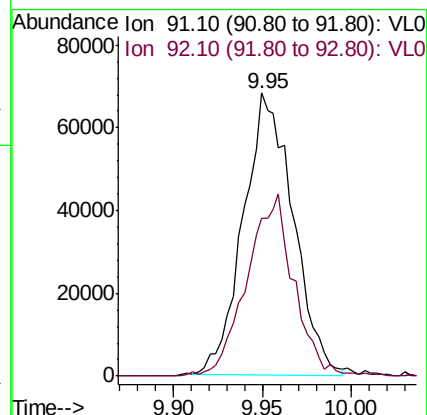
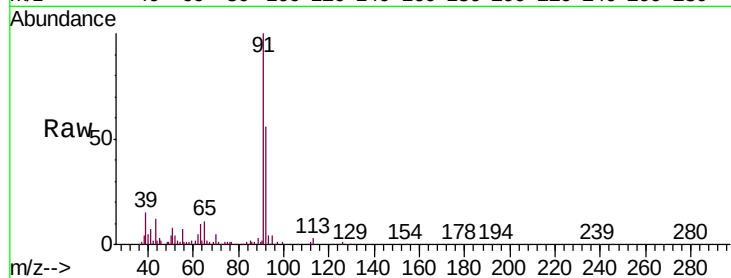
DSV-04DL

Tgt Ion: 91 Resp: 133376

Ion Ratio Lower Upper

91 100

92 60.8 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032862.D

Acq: 30 Nov 2018 23:34

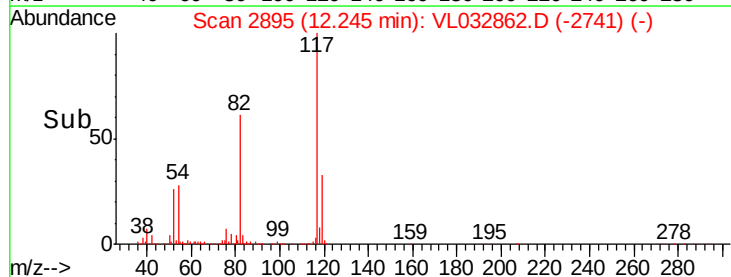
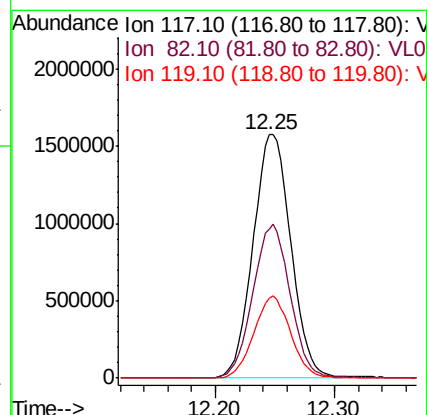
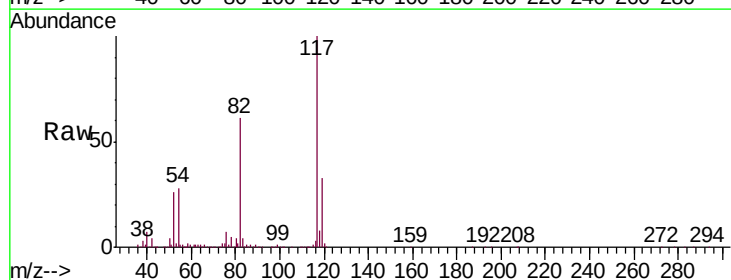
Tgt Ion: 117 Resp: 3460555

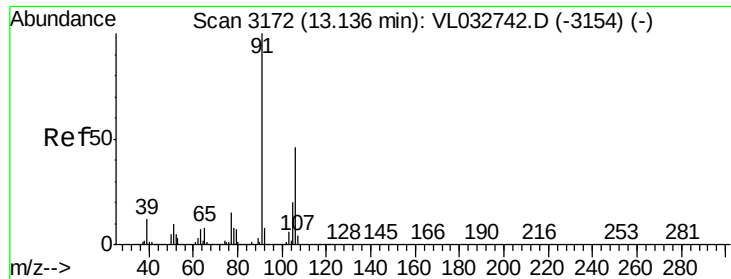
Ion Ratio Lower Upper

117 100

82 63.0 51.0 76.6

119 33.2 28.0 42.0

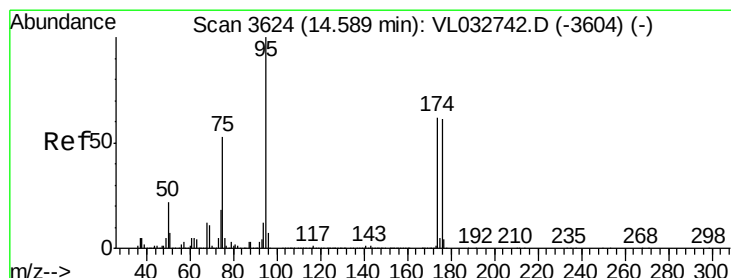
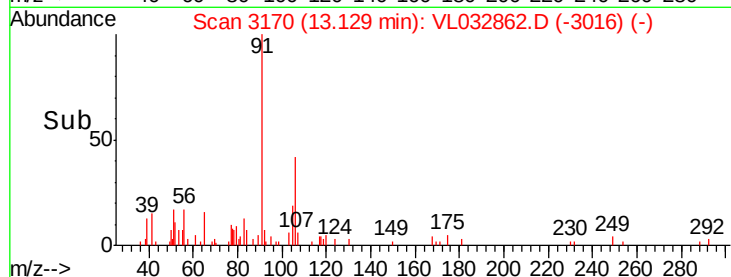
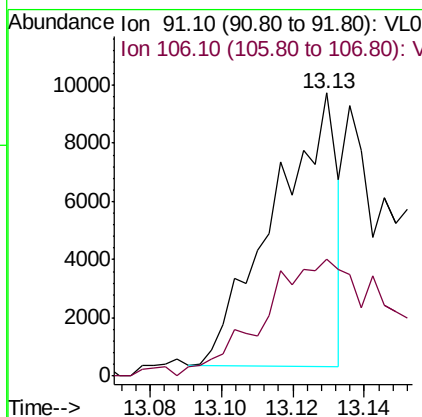
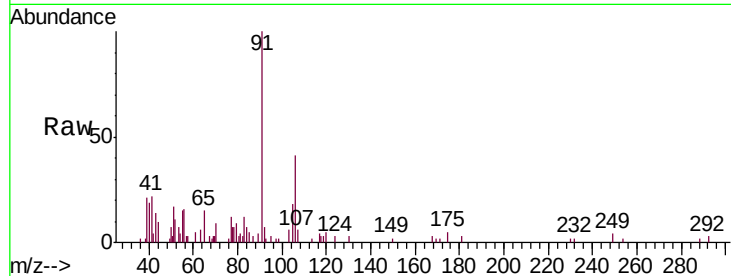




#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032862.D
Acq: 30 Nov 2018 23:34

Instrument :
MSVOA_L
ClientSampleId :
DSV-04DL

Tgt Ion: 91 Resp: 11474
Ion Ratio Lower Upper
91 100
106 107.0 36.1 54.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.161 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032862.D
Acq: 30 Nov 2018 23:34

Tgt Ion: 95 Resp: 2629864
Ion Ratio Lower Upper
95 100
174 66.8 50.7 76.1
175 4.9 3.8 5.6

