

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
 Data File : VL032184.D
 Acq On : 2 Jul 2018 16:29
 Operator : SY/AP
 Sample : J3601-11DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-2DL

Quant Time: Jul 03 05:03:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1561615	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4193636	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3732908	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2974724	10.43	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

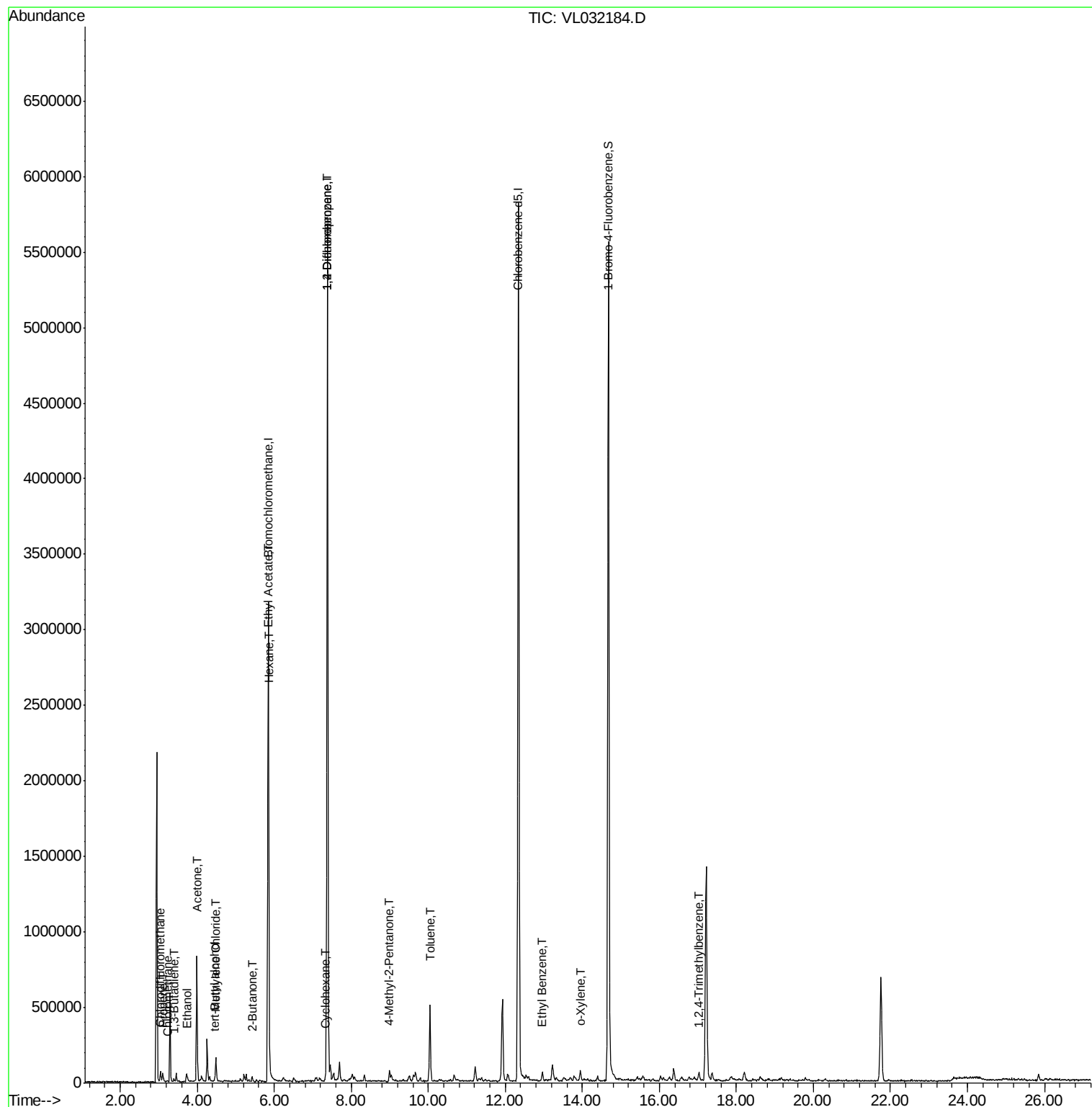
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.04	51	49919	0.262	ppbv #	76
4) Chloromethane	3.23	50	5938	0.058	ppbv	94
9) Propene	3.10	41	5369	0.060	ppbv	90
13) Ethanol	3.72	45	29588	1.098	ppbv #	32
15) Acetone	3.99	43	454078	2.487	ppbv #	78
16) 1,3-Butadiene	3.40	39	5281	0.061	ppbv #	6
17) tert-Butyl alcohol	4.45	59	4415	0.038	ppbv #	73
20) Methylene Chloride	4.48	84	55682	0.834	ppbv #	84
25) Ethyl Acetate	5.86	43	137734	0.365	ppbv	97
26) Hexane	5.86	57	89830	0.516	ppbv #	80
30) Cyclohexane	7.33	84	5546	0.034	ppbv #	1
34) 2-Butanone	5.42	43	40127	0.151	ppbv	94
39) 1,2-Dichloropropane	7.38	63	1126074	7.034	ppbv #	26
50) 4-Methyl-2-Pentanone	9.00	43	55998	0.128	ppbv	96
53) Toluene	10.04	91	370115	0.754	ppbv	99
58) Ethyl Benzene	12.96	91	48877	0.081	ppbv	92
60) o-Xylene	13.95	91	45738	0.095	ppbv	98
74) 1,2,4-Trimethylbenzene	17.03	105	18073	0.031	ppbv #	72

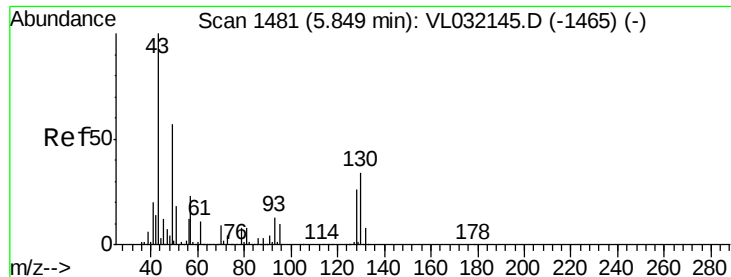
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
Data File : VL032184.D
Acq On : 2 Jul 2018 16:29
Operator : SY/AP
Sample : J3601-11DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-2DL

Quant Time: Jul 03 05:03:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

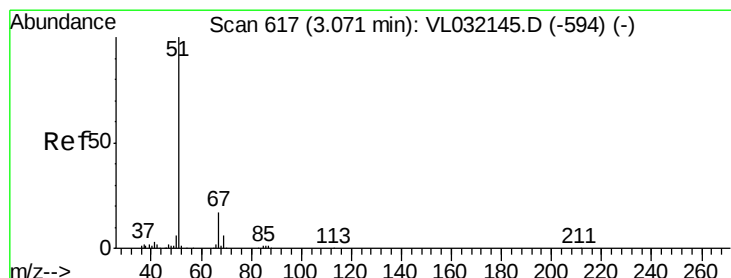
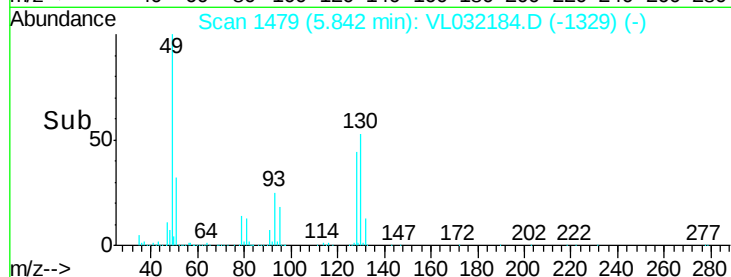
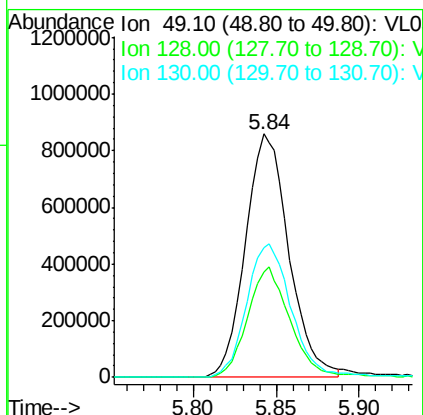
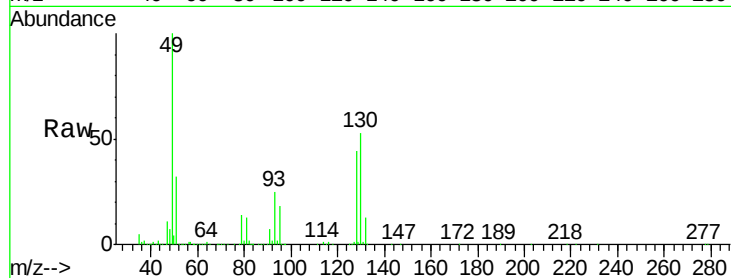




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

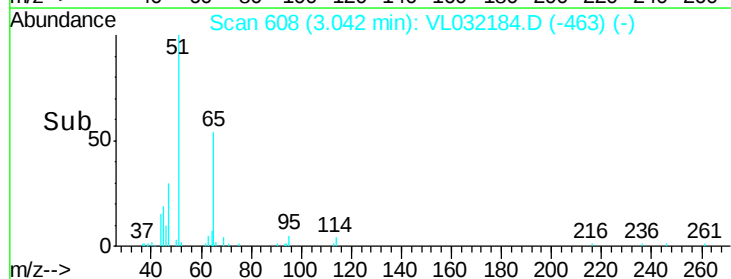
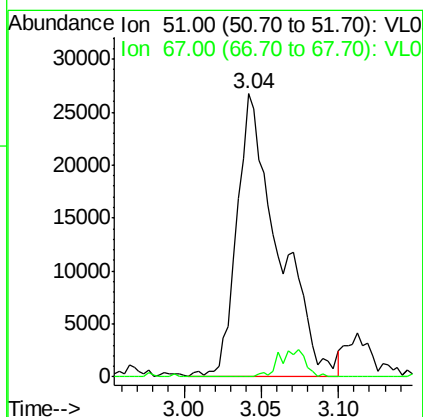
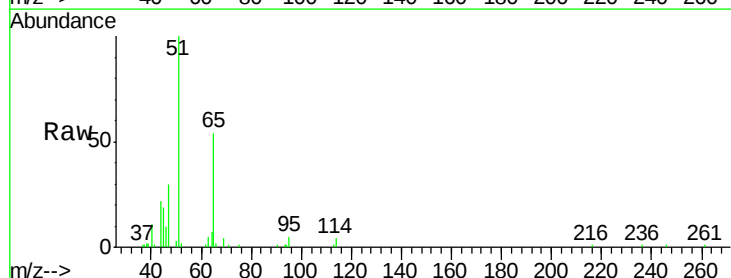
Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-2DL

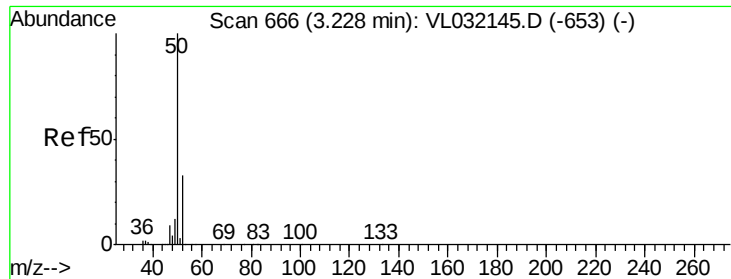
Tgt Ion: 49 Resp: 1561615
 Ion Ratio Lower Upper
 49 100
 128 45.4 23.4 70.0
 130 57.8 30.3 90.9



#3
 Chlorodifluoromethane
 Concen: 0.262 ppbv
 RT: 3.04 min Scan# 608
 Delta R.T. -0.04 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

Tgt Ion: 51 Resp: 49919
 Ion Ratio Lower Upper
 51 100
 67 6.1 13.2 19.8#





#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Instrument :

MSVOA_L

ClientSampleId :

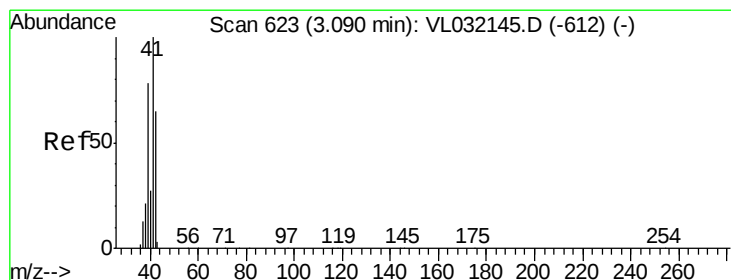
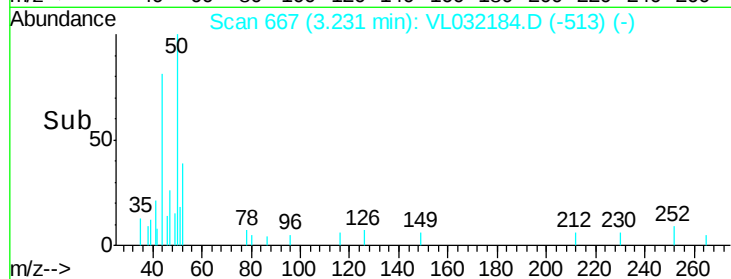
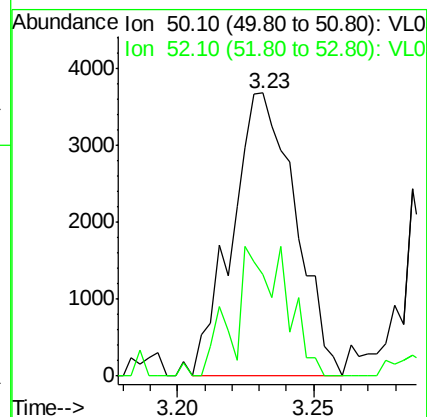
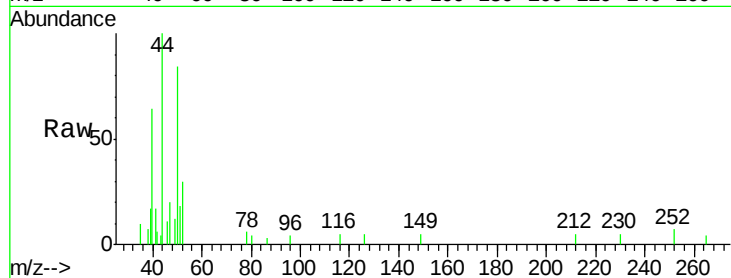
OUTDOOR-2DL

Tgt Ion: 50 Resp: 5938

Ion Ratio Lower Upper

50 100

52 35.8 26.0 39.0



#9

Propene

Concen: 0.060 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL032184.D

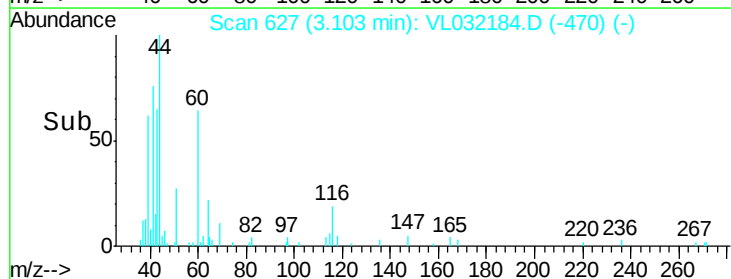
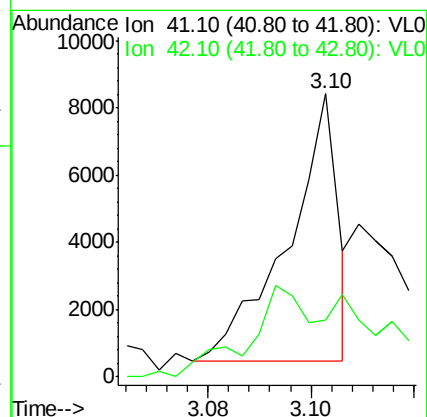
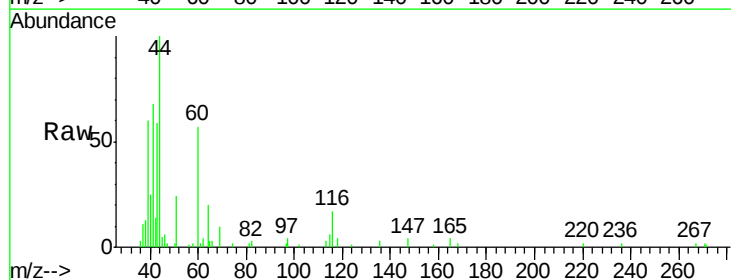
Acq: 2 Jul 2018 16:29

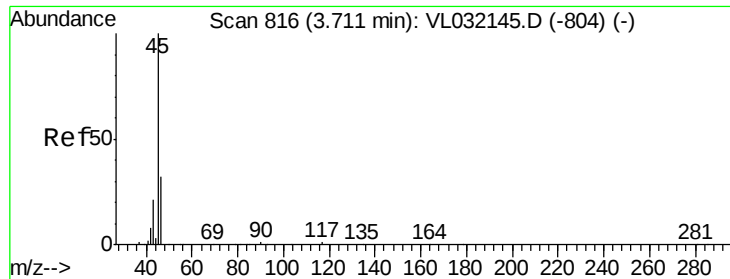
Tgt Ion: 41 Resp: 5369

Ion Ratio Lower Upper

41 100

42 78.1 56.2 84.4

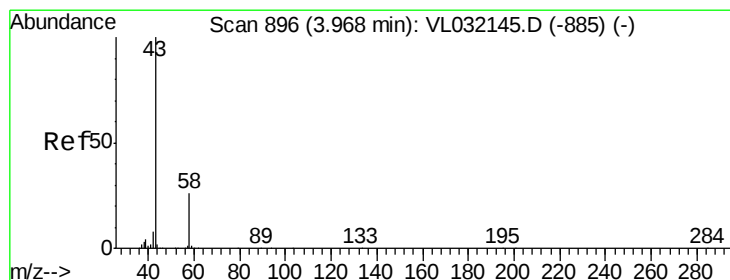
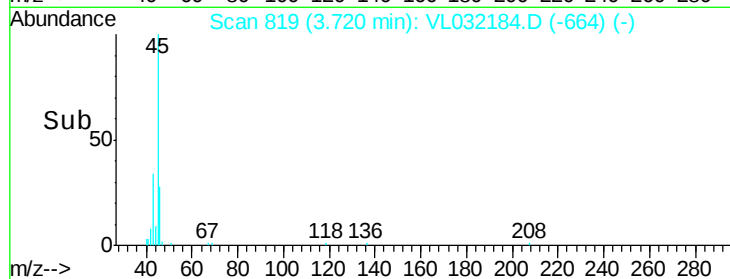
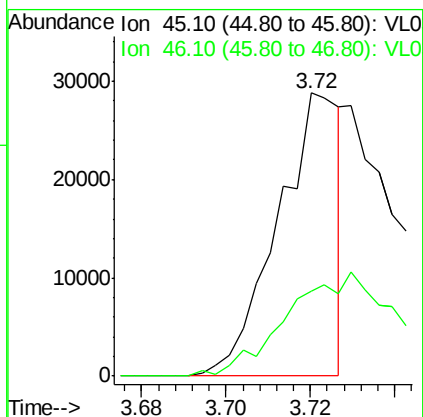
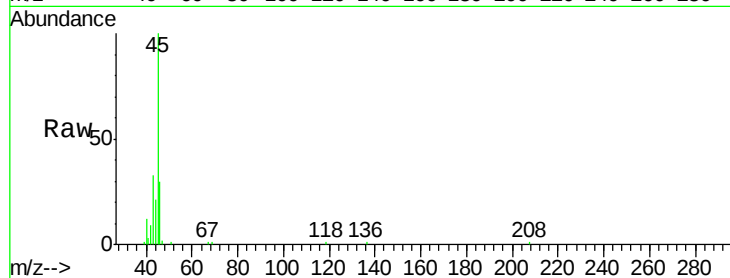




#13
Ethanol
Concen: 1.098 ppbv
RT: 3.72 min Scan# 819
Delta R.T. -0.00 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

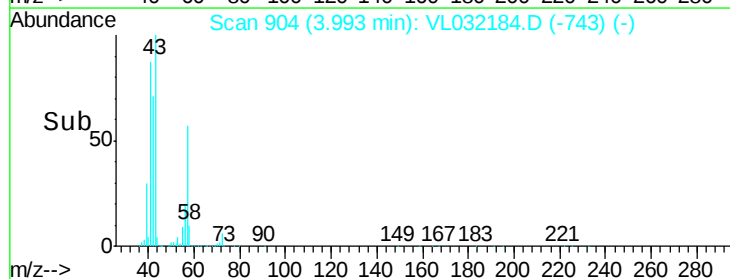
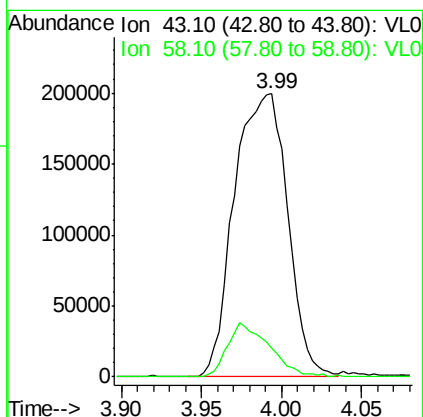
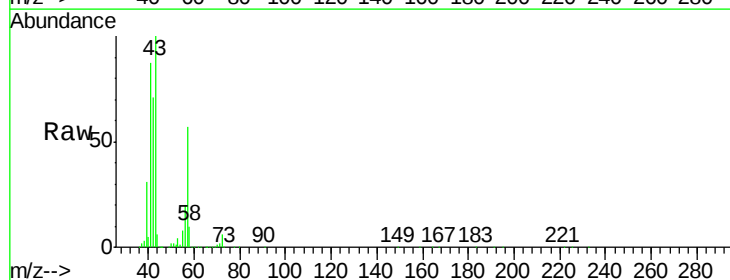
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-2DL

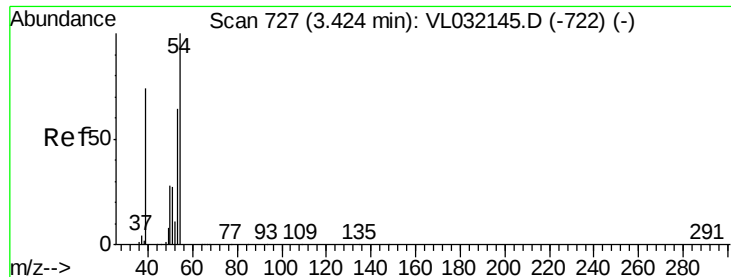
Tgt Ion: 45 Resp: 29588
Ion Ratio Lower Upper
45 100
46 76.7 14.6 58.4#



#15
Acetone
Concen: 2.487 ppbv
RT: 3.99 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

Tgt Ion: 43 Resp: 454078
Ion Ratio Lower Upper
43 100
58 15.5 21.4 32.0#

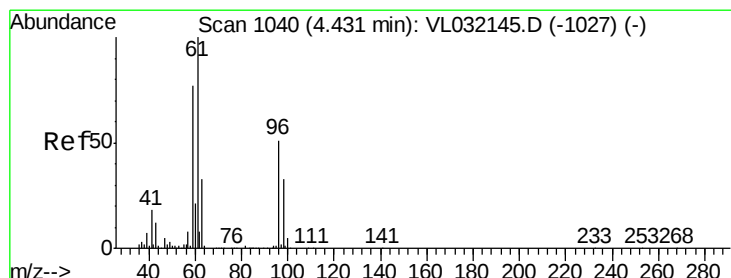
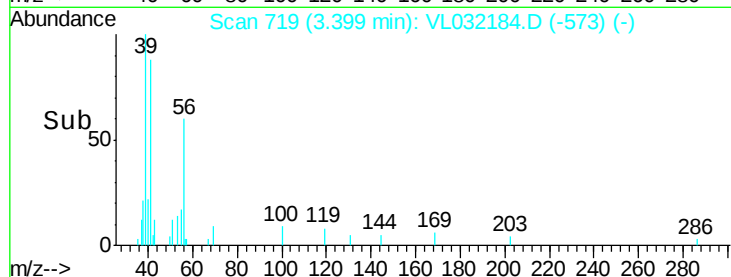
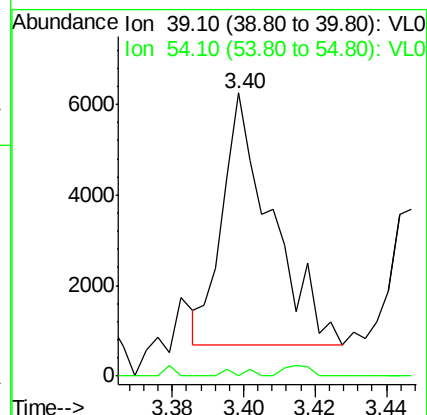
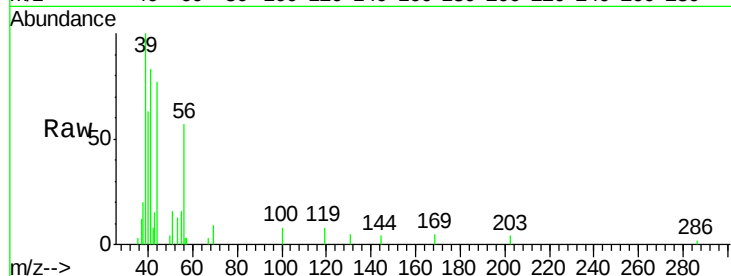




#16
 1,3-Butadiene
 Concen: 0.061 ppbv
 RT: 3.40 min Scan# 719
 Delta R.T. -0.03 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

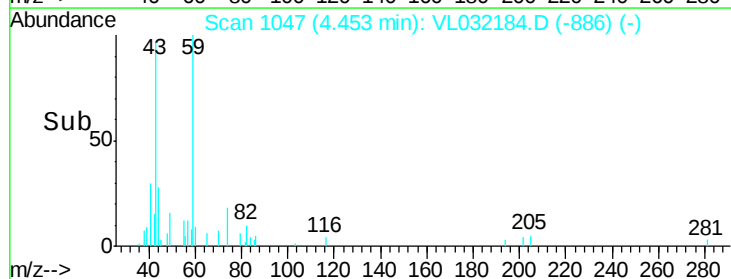
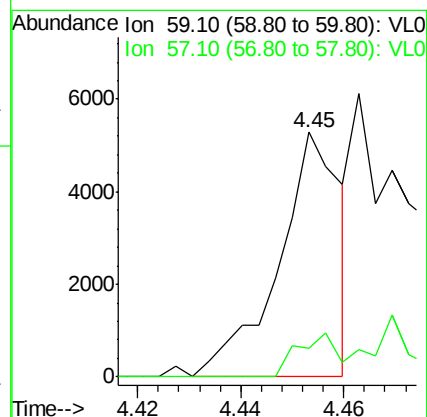
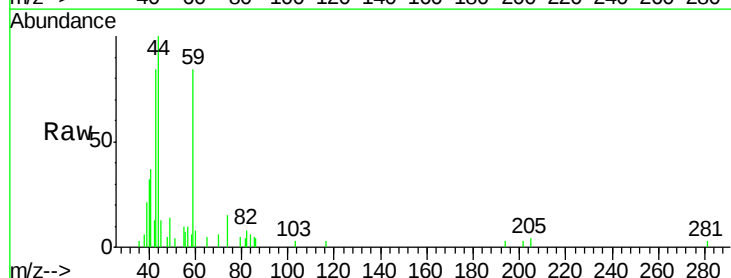
Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-2DL

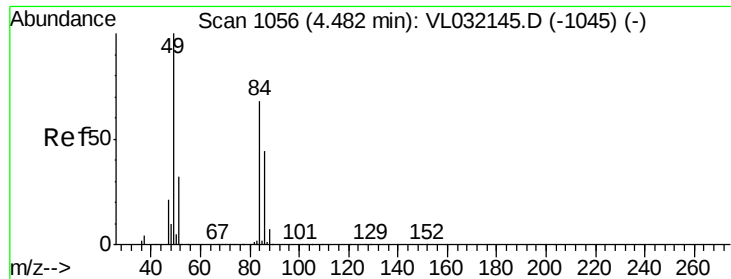
Tgt Ion: 39 Resp: 5281
 Ion Ratio Lower Upper
 39 100
 54 3.4 75.8 113.6#



#17
 tert-Butyl alcohol
 Concen: 0.038 ppbv
 RT: 4.45 min Scan# 1047
 Delta R.T. 0.02 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

Tgt Ion: 59 Resp: 4415
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

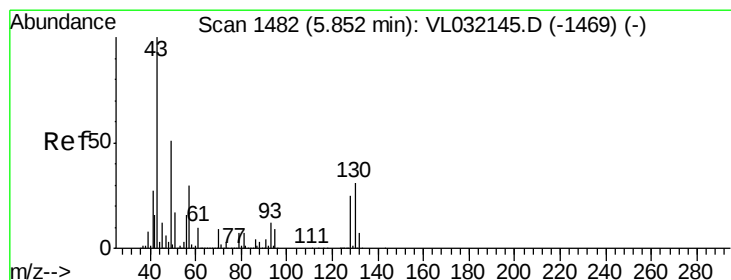
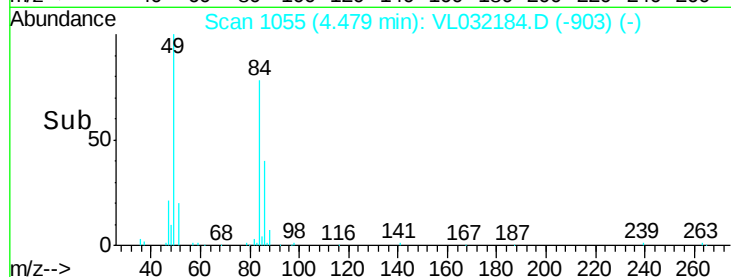
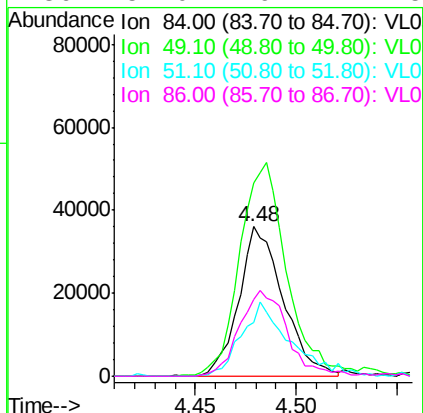
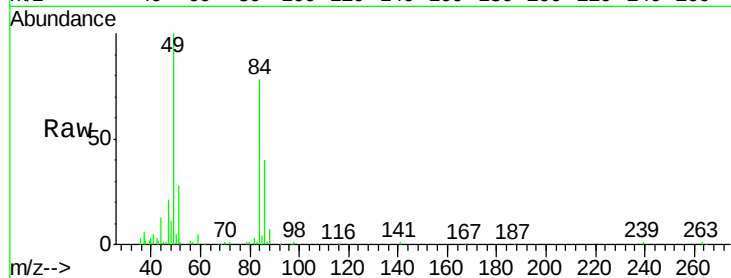




#20
Methylene Chloride
Concen: 0.834 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

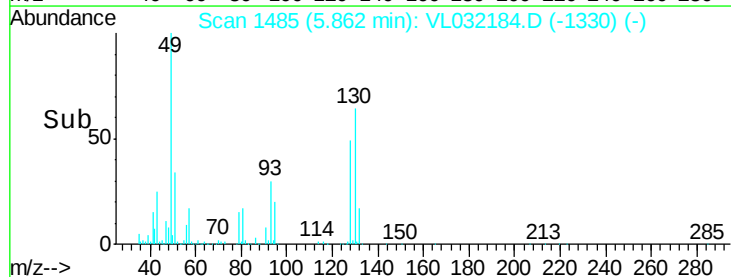
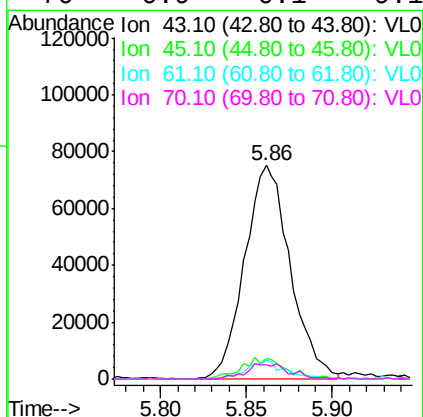
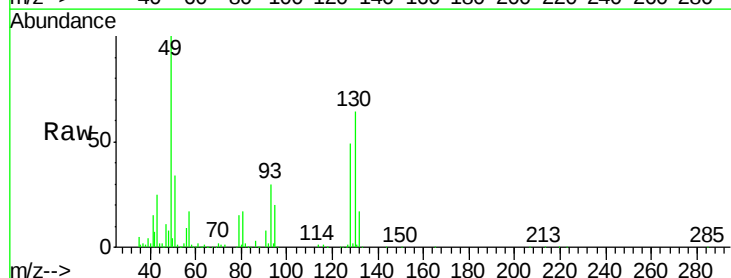
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-2DL

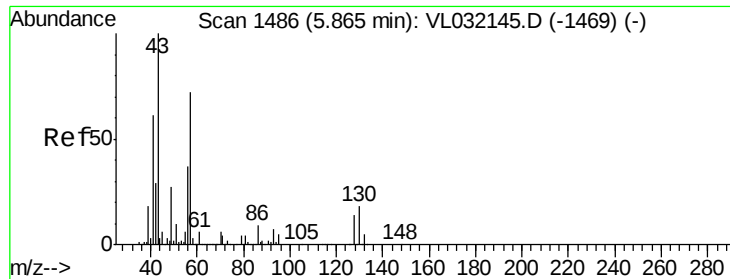
Tgt Ion: 84 Resp: 55682
Ion Ratio Lower Upper
84 100
49 126.8 119.6 179.4
51 35.9 36.3 54.5#
86 51.0 49.7 74.5



#25
Ethyl Acetate
Concen: 0.365 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.00 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

Tgt Ion: 43 Resp: 137734
Ion Ratio Lower Upper
43 100
45 10.3 7.8 11.8
61 7.7 7.4 11.0
70 6.9 6.1 9.1

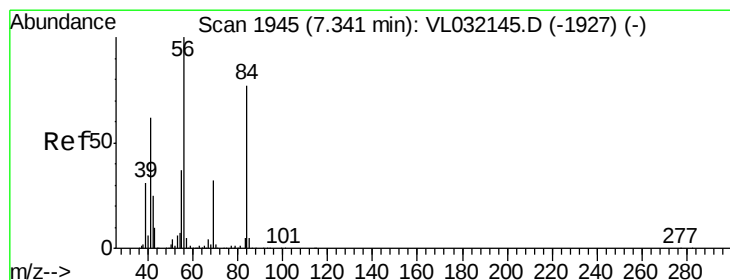
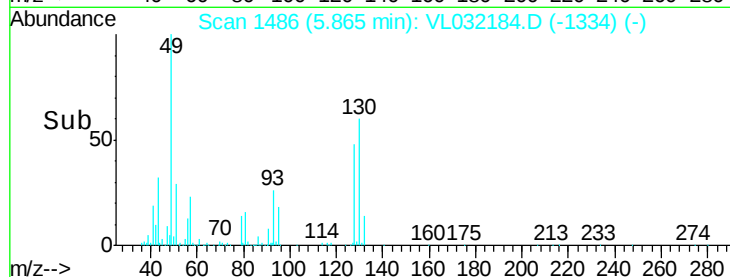
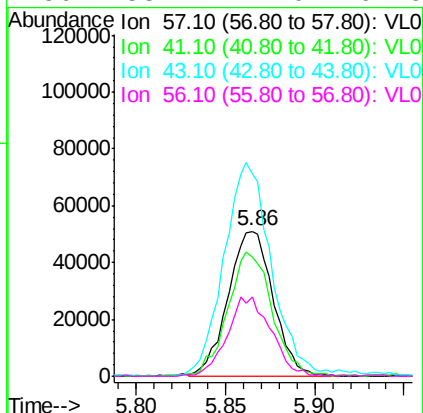
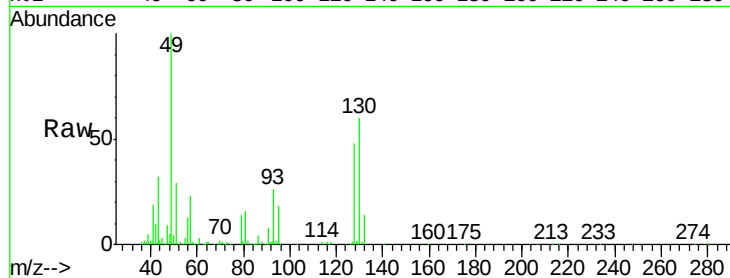




#26
Hexane
Concen: 0.516 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

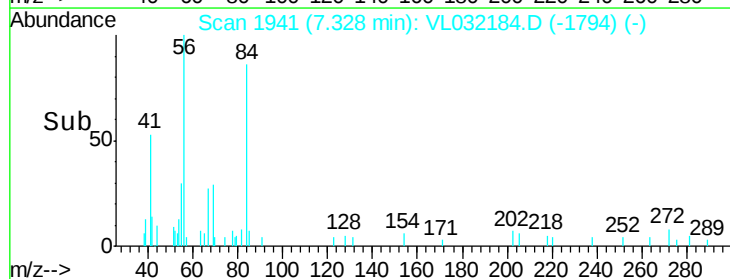
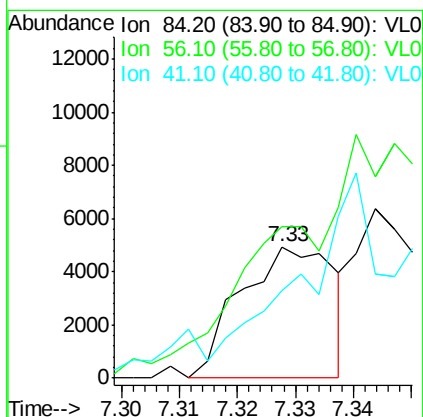
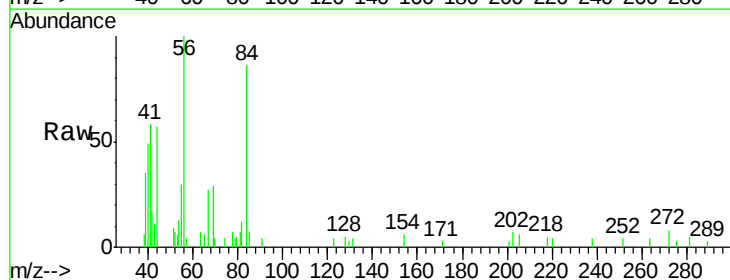
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-2DL

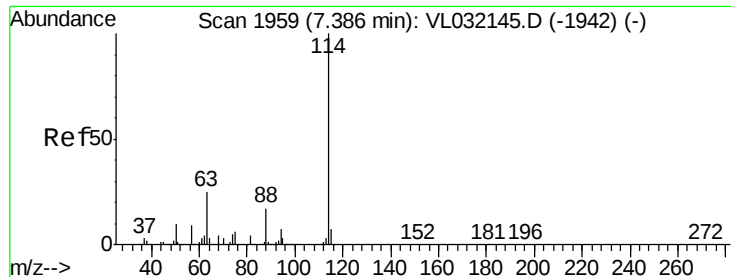
Tgt Ion: 57 Resp: 89830
Ion Ratio Lower Upper
57 100
41 85.3 68.6 103.0
43 159.9 168.6 252.8#
56 53.7 41.0 61.6



#30
Cyclohexane
Concen: 0.034 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.03 min
Lab File: VL032184.D
Acq: 2 Jul 2018 16:29

Tgt Ion: 84 Resp: 5546
Ion Ratio Lower Upper
84 100
56 0.0 109.1 163.7#
41 0.0 64.6 96.8#

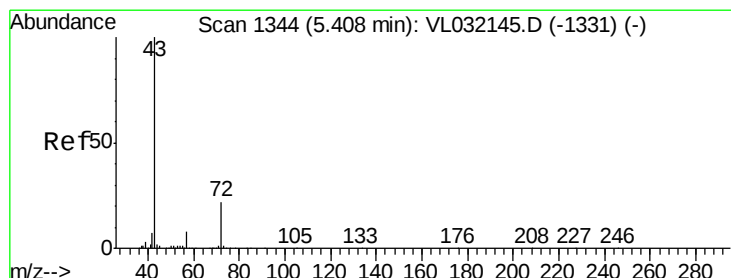
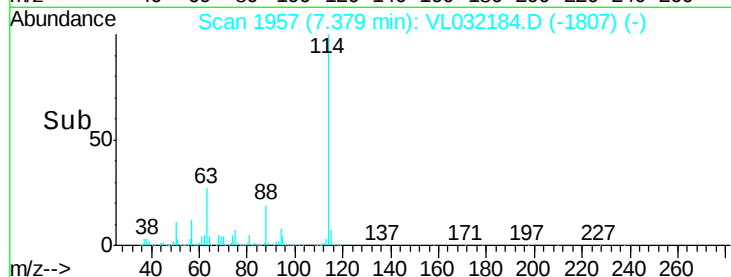
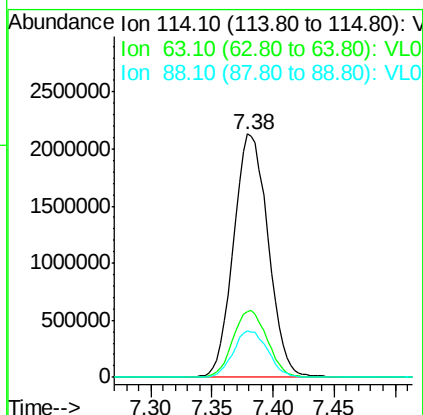
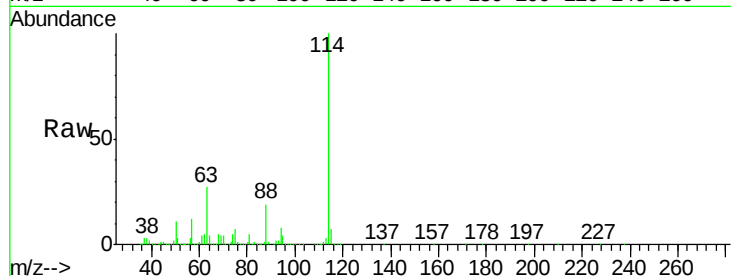




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.02 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

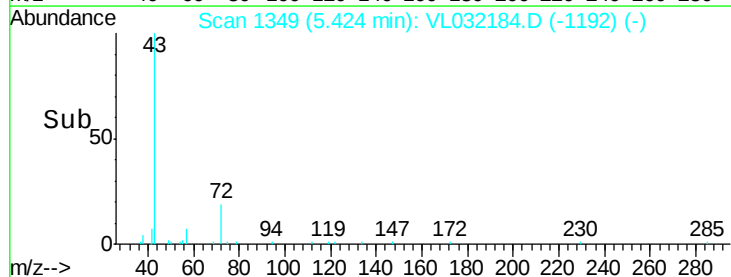
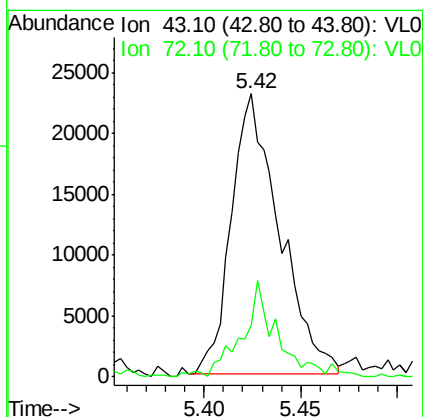
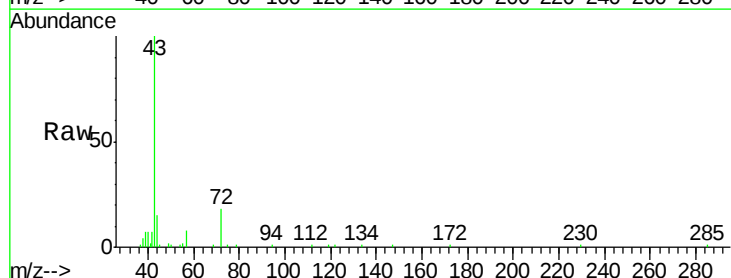
Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-2DL

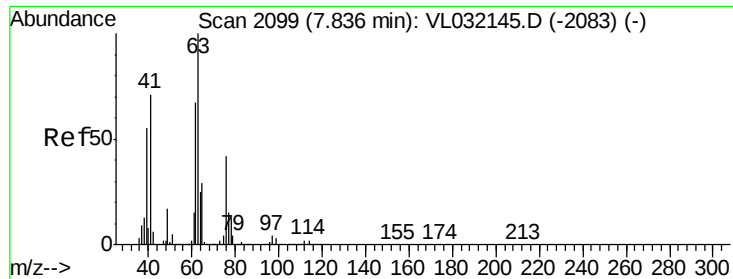
Tgt Ion:114 Resp: 4193636
 Ion Ratio Lower Upper
 114 100
 63 27.4 19.1 28.7
 88 19.2 13.9 20.9



#34
 2-Butanone
 Concen: 0.151 ppbv
 RT: 5.42 min Scan# 1349
 Delta R.T. 0.00 min
 Lab File: VL032184.D
 Acq: 2 Jul 2018 16:29

Tgt Ion: 43 Resp: 40127
 Ion Ratio Lower Upper
 43 100
 72 25.9 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.034 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.47 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-2DL

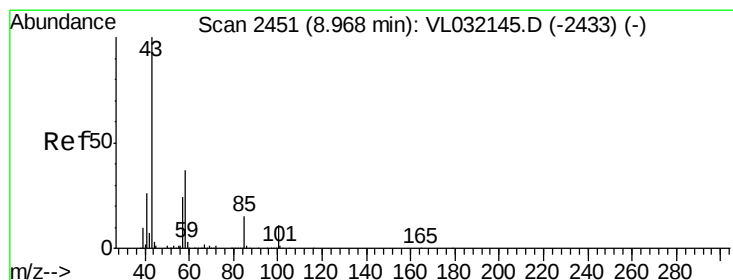
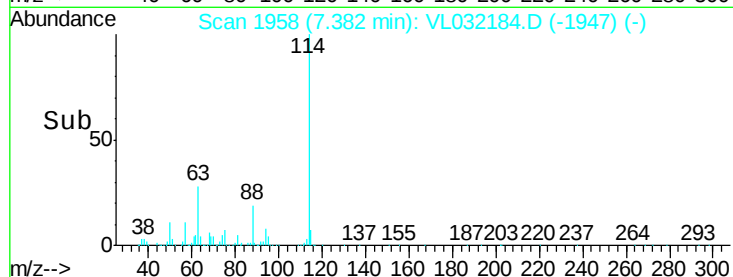
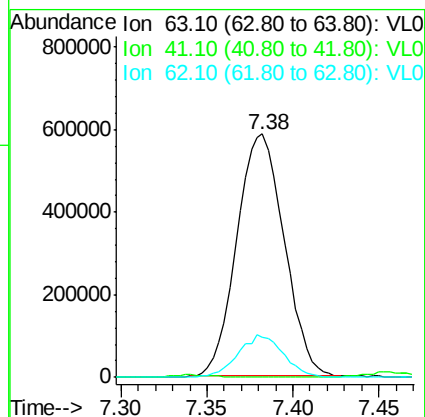
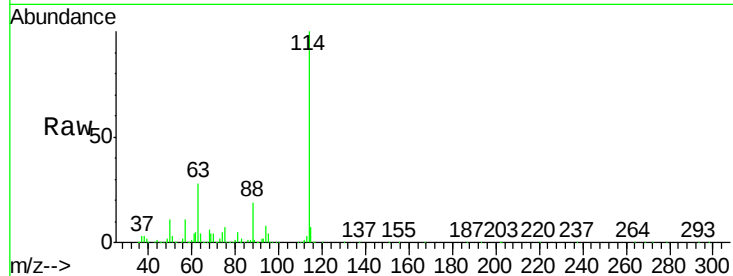
Tgt Ion: 63 Resp: 1126074

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

62 16.2 54.8 82.2#



#50

4-Methyl-2-Pentanone

Concen: 0.128 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. 0.02 min

Lab File: VL032184.D

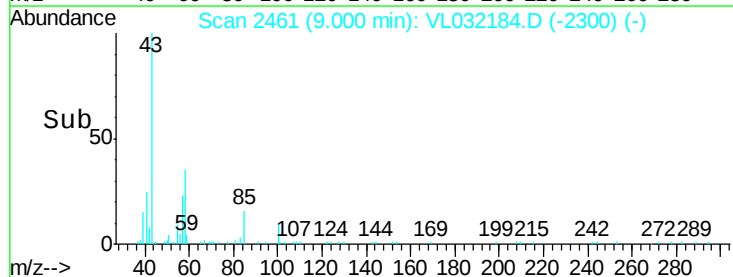
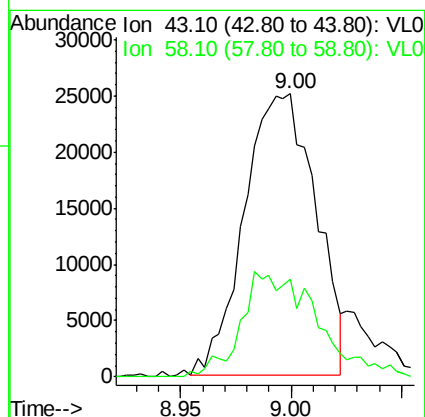
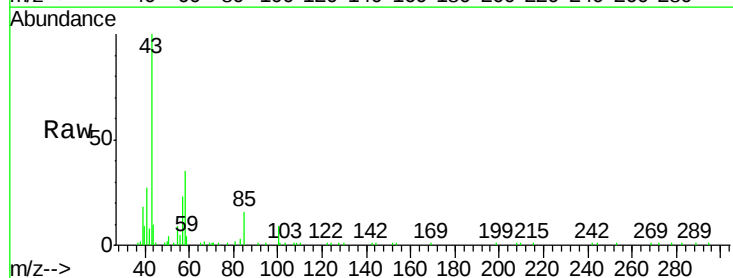
Acq: 2 Jul 2018 16:29

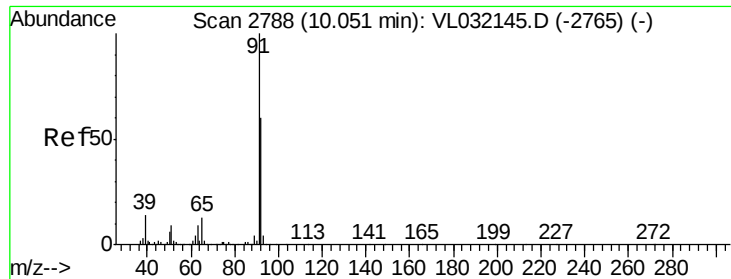
Tgt Ion: 43 Resp: 55998

Ion Ratio Lower Upper

43 100

58 39.7 29.8 44.6





#53

Toluene

Concen: 0.754 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Instrument :

MSVOA_L

ClientSampleId :

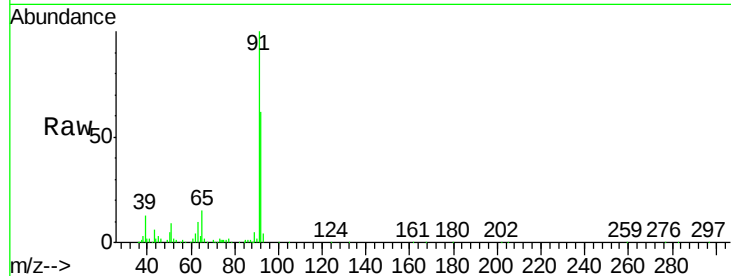
OUTDOOR-2DL

Tgt Ion: 91 Resp: 370115

Ion Ratio Lower Upper

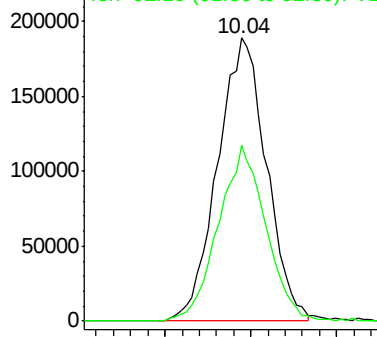
91 100

92 60.9 49.2 73.8

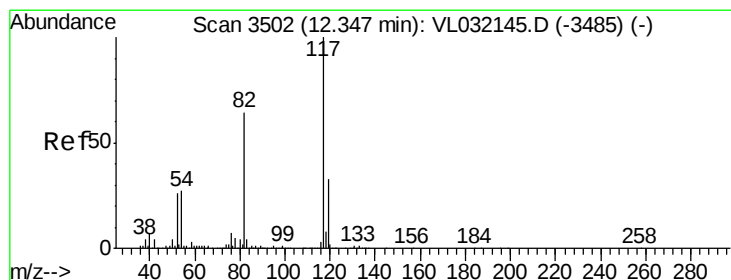
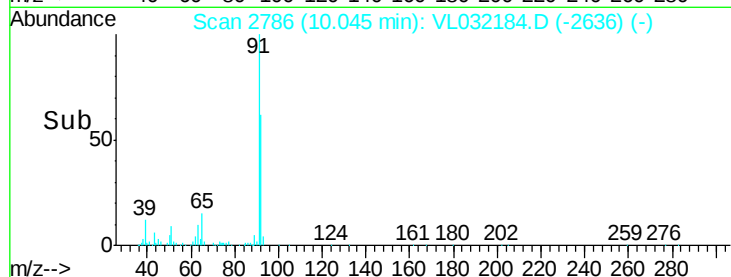


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

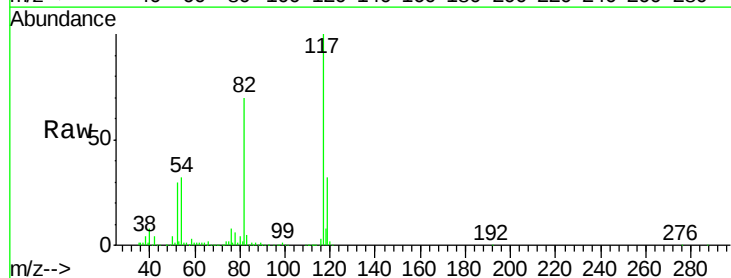
Tgt Ion: 117 Resp: 3732908

Ion Ratio Lower Upper

117 100

82 70.4 47.8 71.8

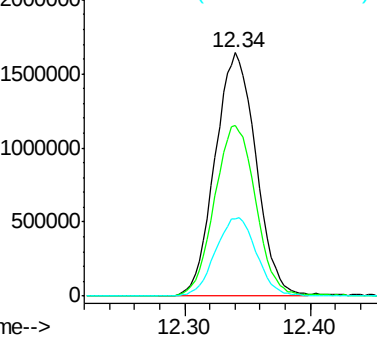
119 32.4 43.3 64.9#



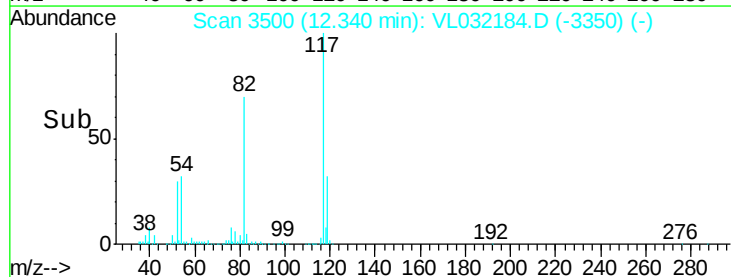
Abundance Ion 117.10 (116.80 to 117.80): V

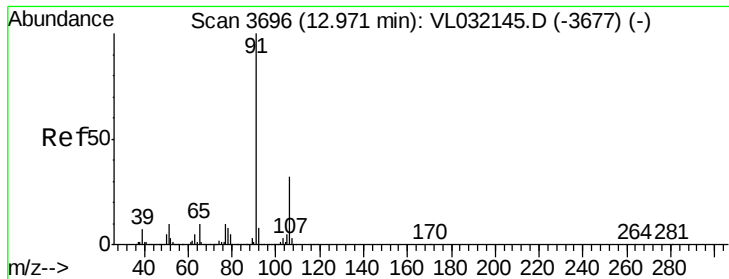
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->





#58

Ethyl Benzene

Concen: 0.081 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. -0.02 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Instrument :

MSVOA_L

ClientSampleId :

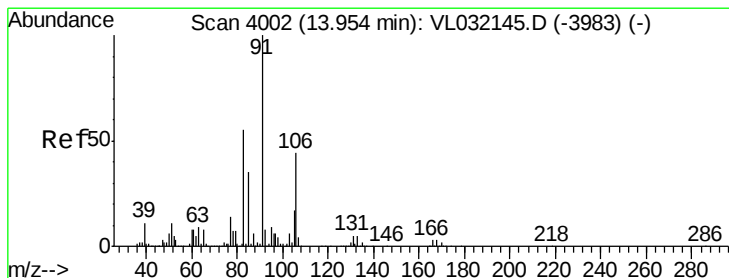
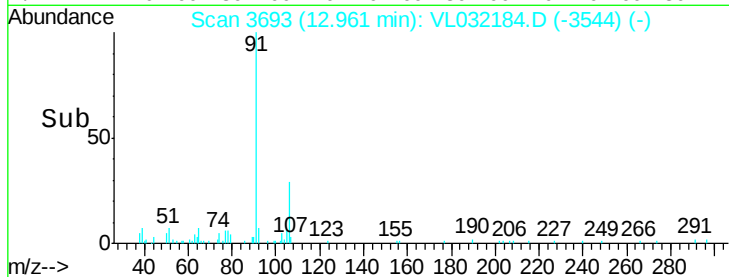
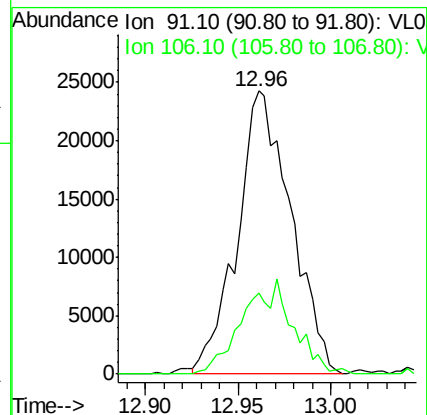
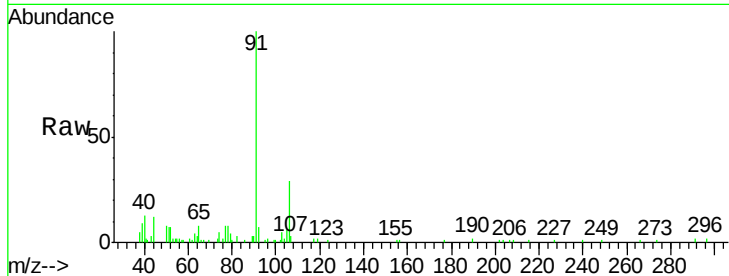
OUTDOOR-2DL

Tgt Ion: 91 Resp: 48877

Ion Ratio Lower Upper

91 100

106 28.7 26.5 39.7



#60

o-Xylene

Concen: 0.095 ppbv

RT: 13.95 min Scan# 4000

Delta R.T. -0.02 min

Lab File: VL032184.D

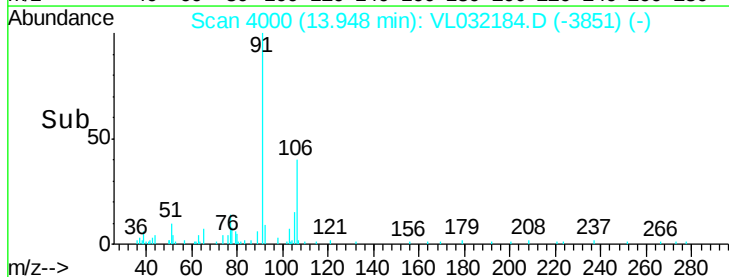
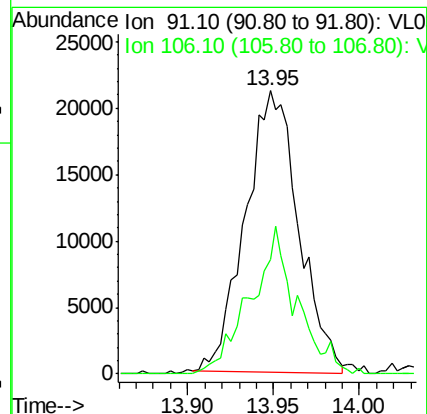
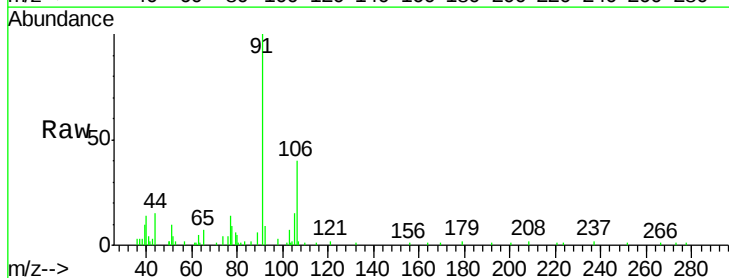
Acq: 2 Jul 2018 16:29

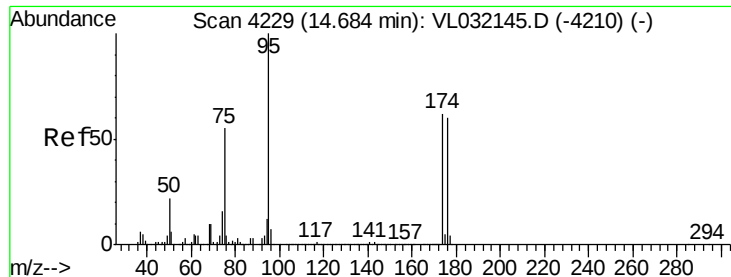
Tgt Ion: 91 Resp: 45738

Ion Ratio Lower Upper

91 100

106 45.3 23.3 69.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.425 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-2DL

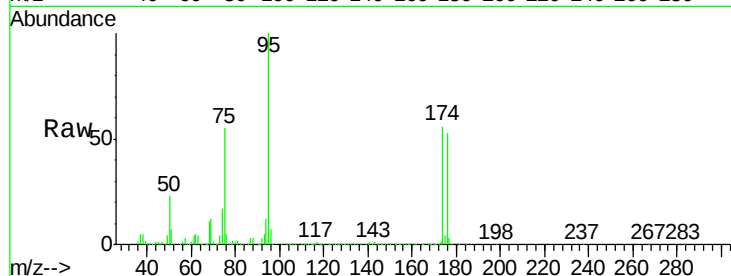
Tgt Ion: 95 Resp: 2974724

Ion Ratio Lower Upper

95 100

174 55.7 52.1 78.1

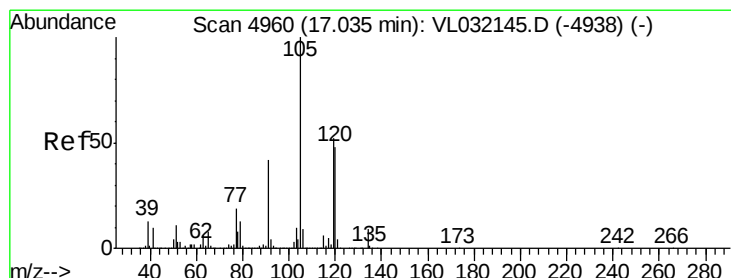
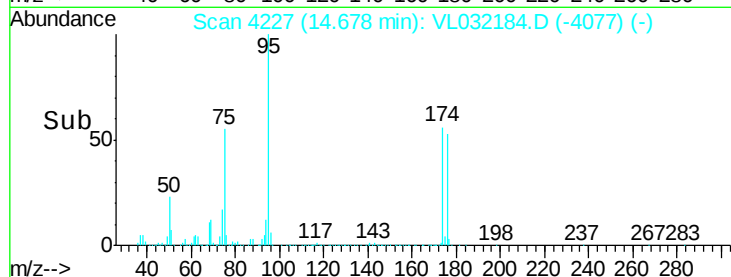
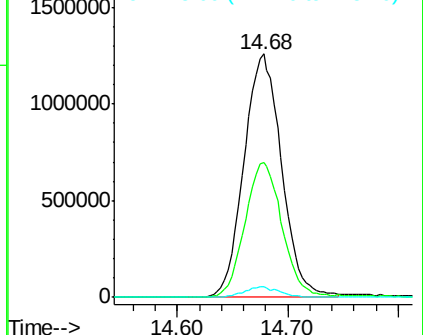
175 4.1 4.0 6.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.031 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032184.D

Acq: 2 Jul 2018 16:29

Tgt Ion: 105 Resp: 18073

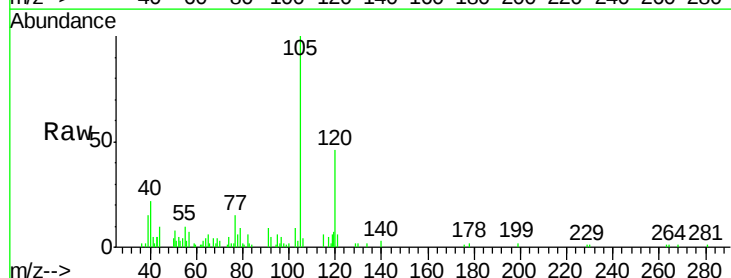
Ion Ratio Lower Upper

105 100

120 41.8 38.8 58.2

91 8.8 33.6 50.4#

77 11.1 16.0 24.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

