

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081020\
 Data File : VL035374.D
 Acq On : 10 Aug 2020 14:57
 Operator : SY/AP
 Sample : L3554-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND DL

Quant Time: Aug 11 04:15:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1273017	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3106602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2857639	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2438857	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

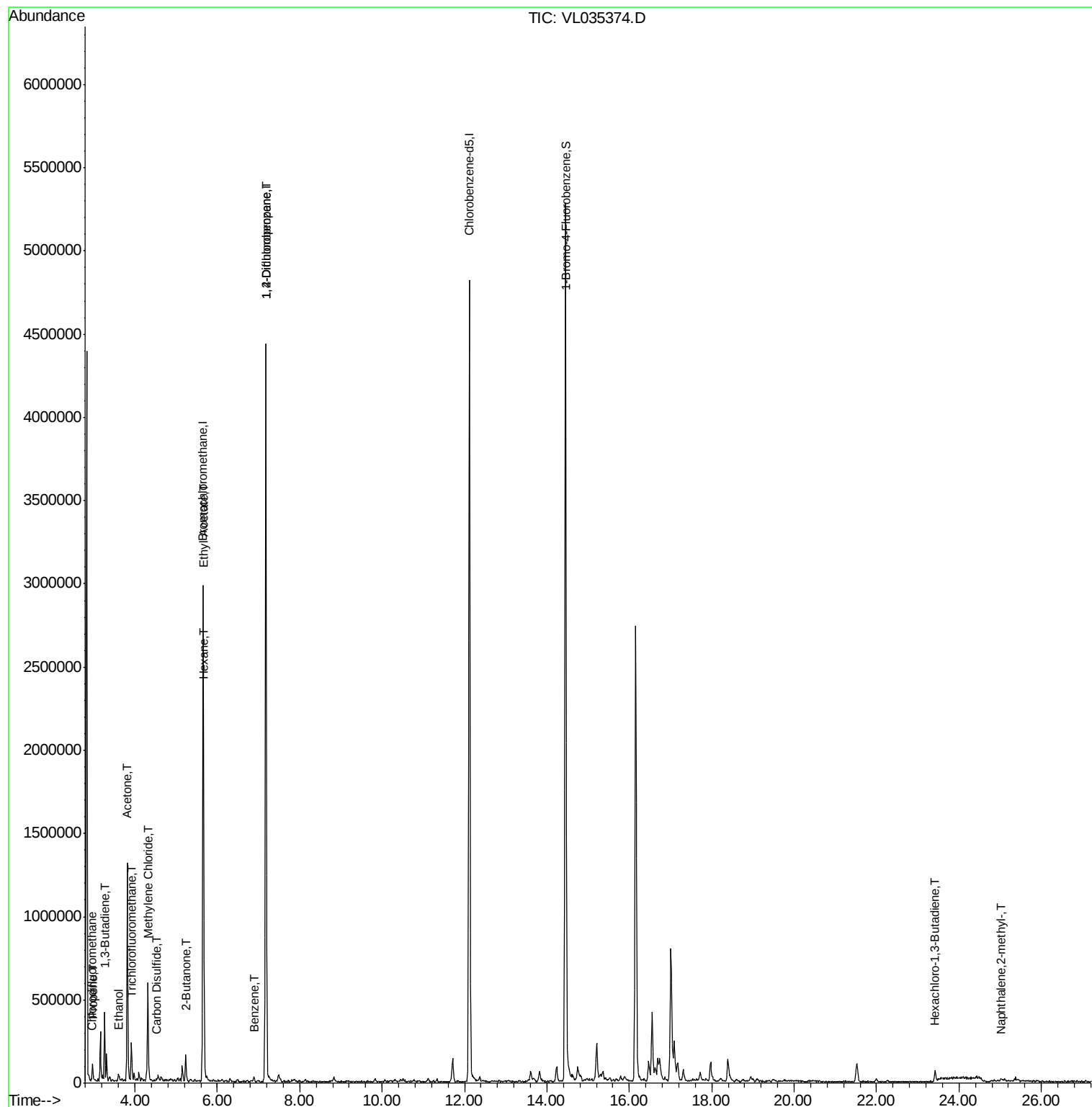
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.94	51	5733	0.039	ppbv #	89
9) Propene	2.97	41	35552	0.687	ppbv	99
11) Trichlorofluoromethane	3.92	101	147313	0.672	ppbv	85
13) Ethanol	3.60	45	24488	1.371	ppbv #	27
15) Acetone	3.81	43	1212303	6.706	ppbv	94
16) 1,3-Butadiene	3.27	39	99912	1.436	ppbv #	16
20) Methylene Chloride	4.32	84	184220	2.499	ppbv	96
25) Ethyl Acetate	5.67	43	36231	0.132	ppbv #	75
26) Hexane	5.67	57	111230	0.934	ppbv #	39
27) Carbon Disulfide	4.53	76	7567	0.045	ppbv #	81
34) 2-Butanone	5.23	43	161764	1.058	ppbv	100
36) Benzene	6.89	78	8673	0.041	ppbv #	86
39) 1,2-Dichloropropane	7.18	63	809035	9.527	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.42	225	5922	0.034	ppbv #	1
80) Naphthalene,2-methyl-	25.02	142	4773	0.079	ppbv #	84

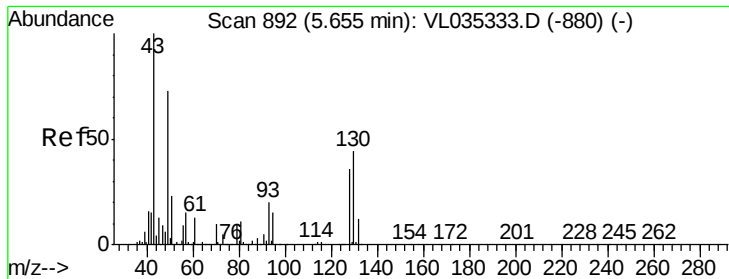
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 11 04:15:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 05 13:04:46 2020
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND DL

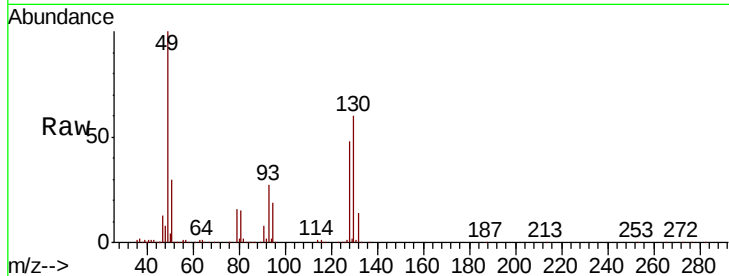
Tot Ion: 49 Resp: 1273017

Ion Ratio Lower Upper

49 100

128 50.8 25.4 76.0

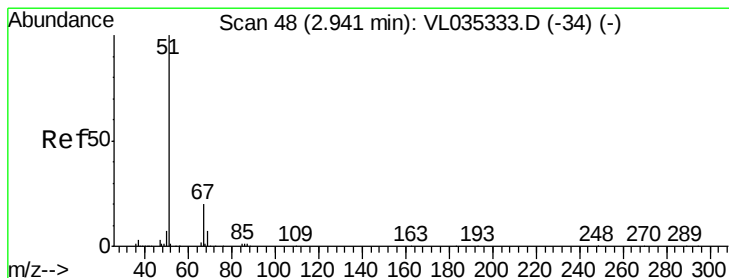
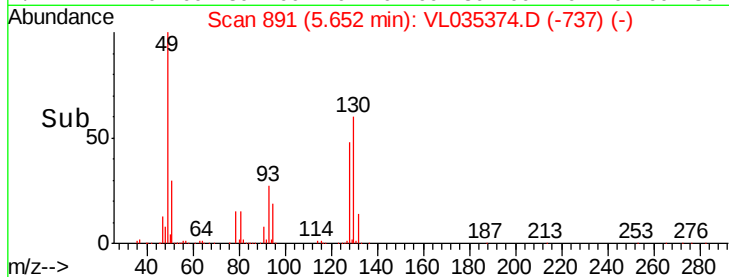
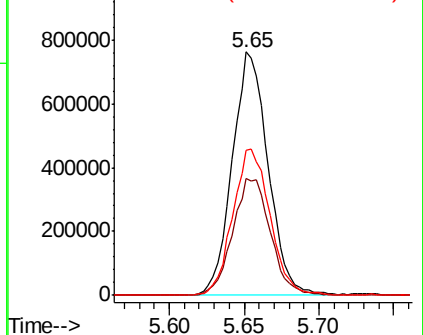
130 62.9 32.1 96.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035374.D

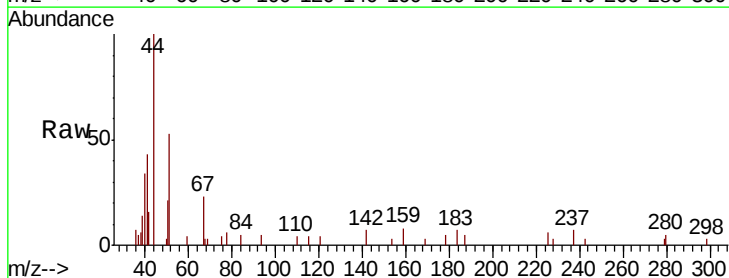
Acq: 10 Aug 2020 14:57

Tgt Ion: 51 Resp: 5733

Ion Ratio Lower Upper

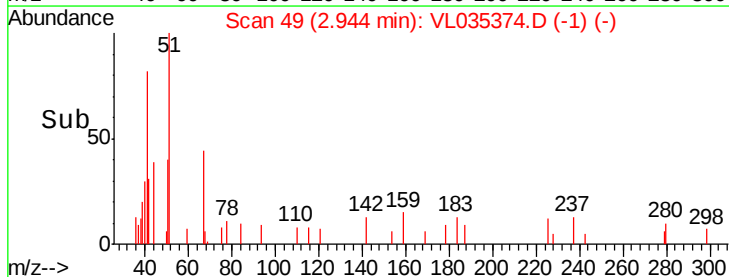
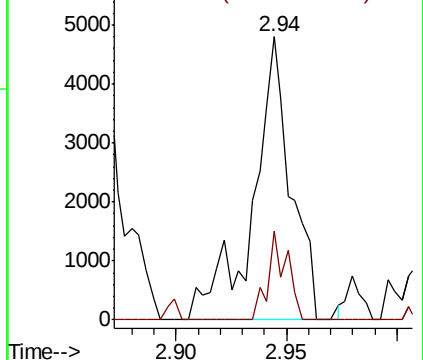
51 100

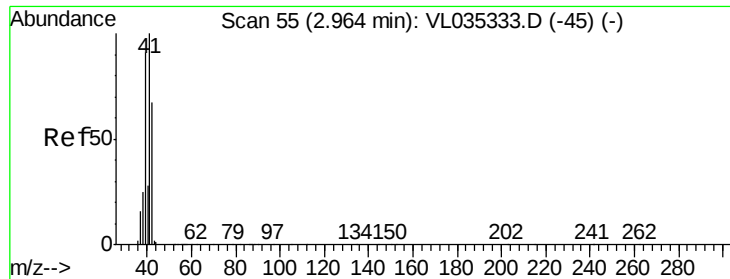
67 15.9 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.687 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Instrument :

MSVOA_L

ClientSampleId :

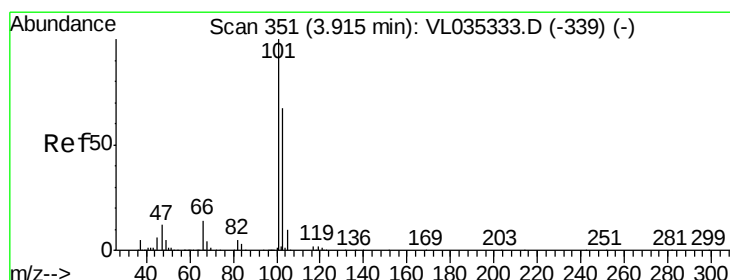
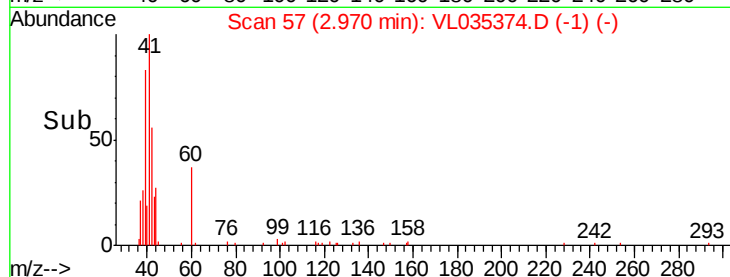
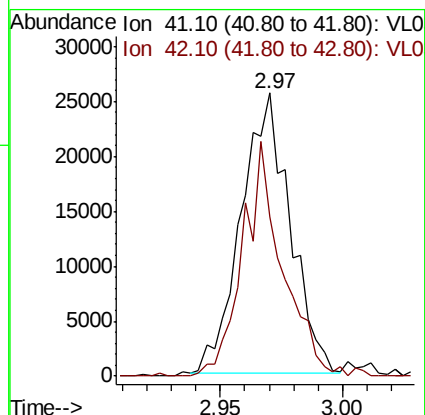
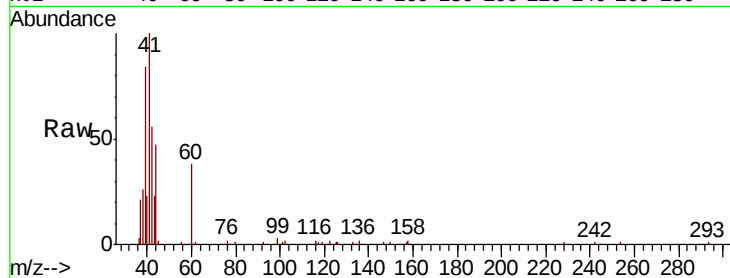
4-UNDER-GROUND DL

Tot Ion: 41 Resp: 3552

Ion Ratio Lower Upper

41 100

42 68.2 55.3 82.9



#11

Trichlorofluoromethane

Concen: 0.672 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.00 min

Lab File: VL035374.D

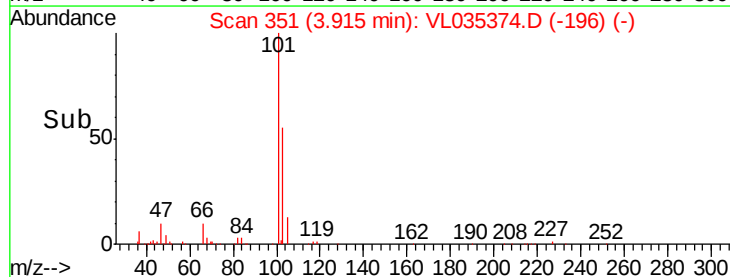
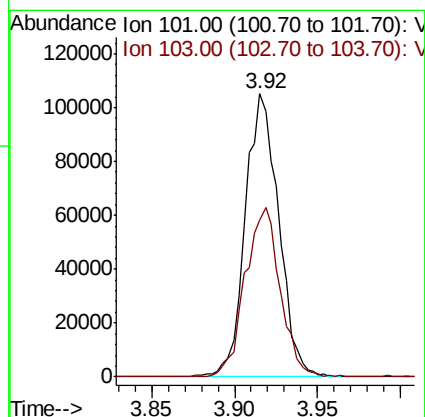
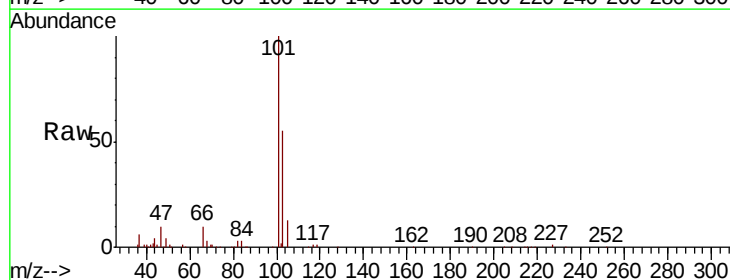
Acq: 10 Aug 2020 14:57

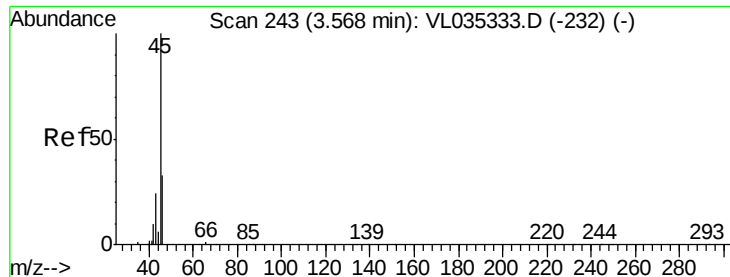
Tgt Ion: 101 Resp: 147313

Ion Ratio Lower Upper

101 100

103 55.2 53.8 80.8

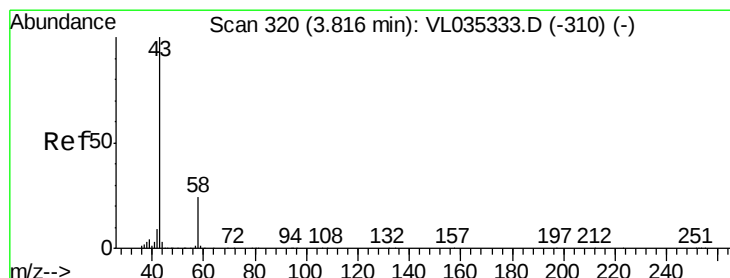
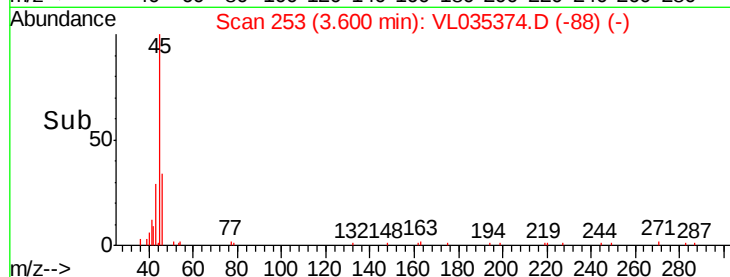
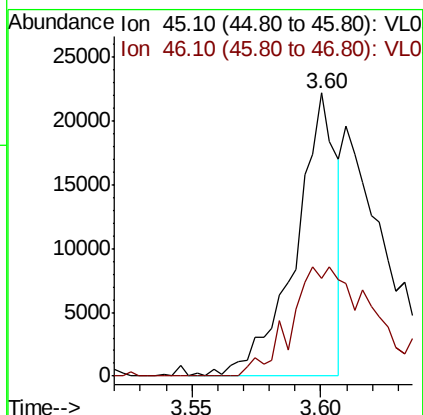
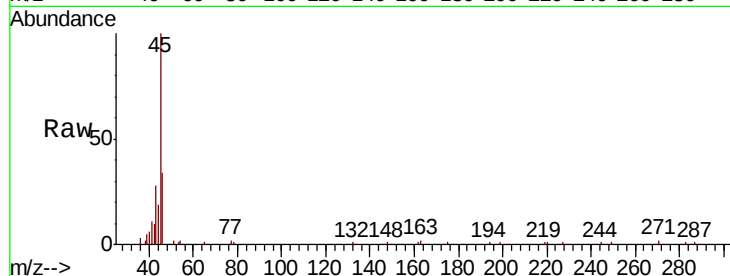




#13
Ethanol
Concen: 1.371 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.03 min
Lab File: VL035374.D
Acq: 10 Aug 2020 14:57

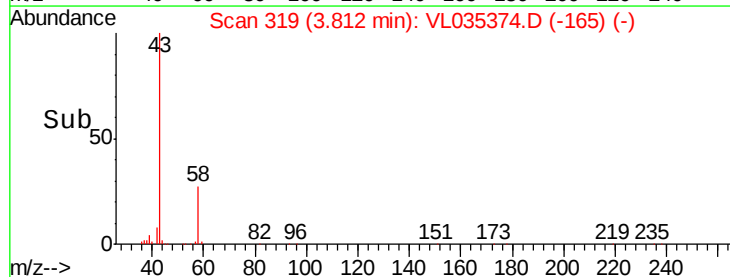
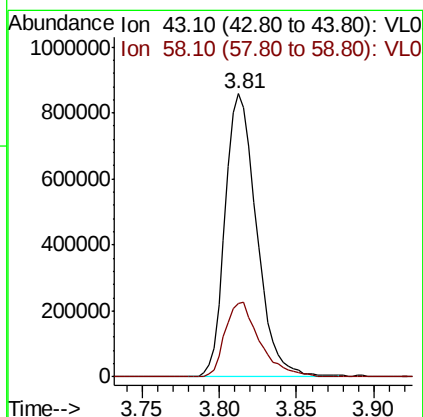
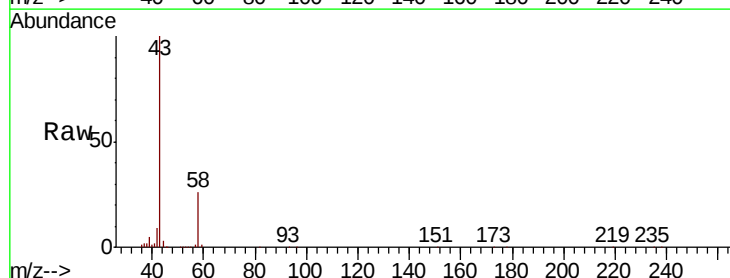
Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUND DL

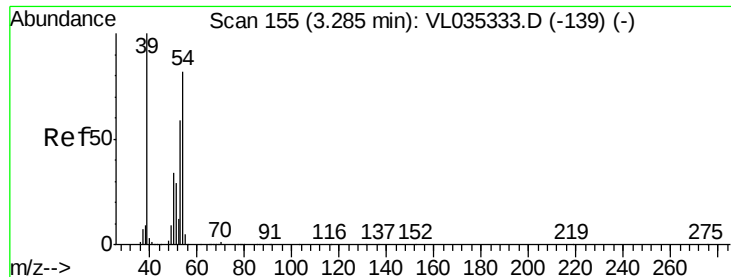
Tot Ion: 45 Resp: 24488
Ion Ratio Lower Upper
45 100
46 82.2 15.2 61.0#



#15
Acetone
Concen: 6.706 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.00 min
Lab File: VL035374.D
Acq: 10 Aug 2020 14:57

Tgt Ion: 43 Resp: 1212303
Ion Ratio Lower Upper
43 100
58 29.5 21.0 31.4

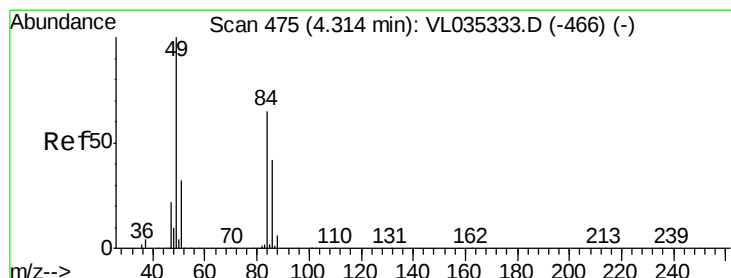
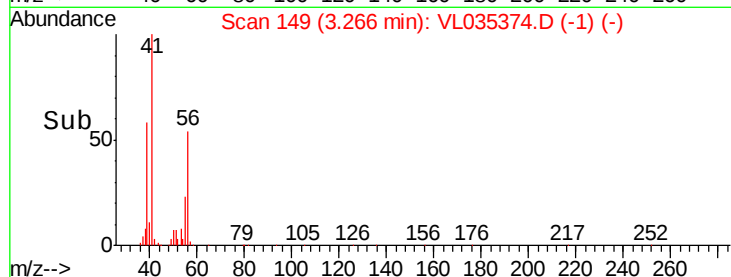
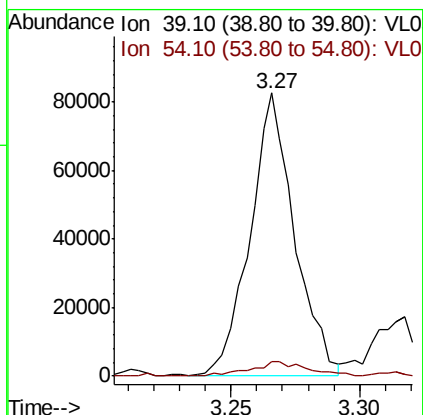
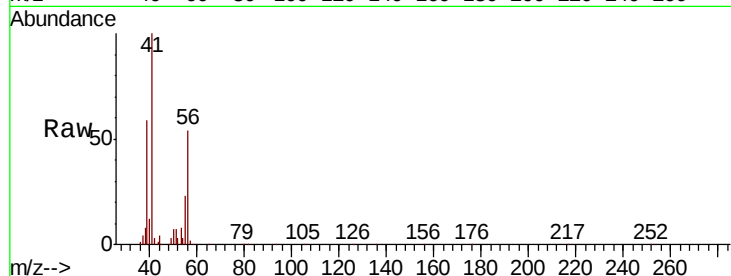




#16
 1,3-Butadiene
 Concen: 1.436 ppbv
 RT: 3.27 min Scan# 149
 Delta R.T. -0.02 min
 Lab File: VL035374.D
 Acq: 10 Aug 2020 14:57

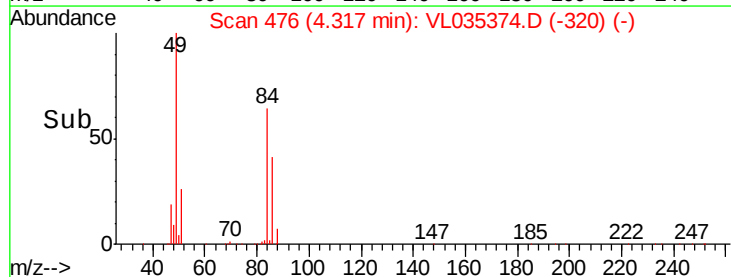
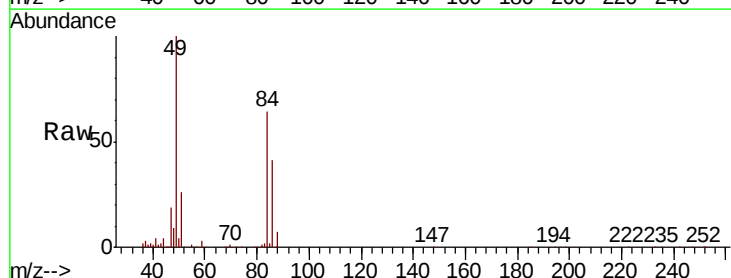
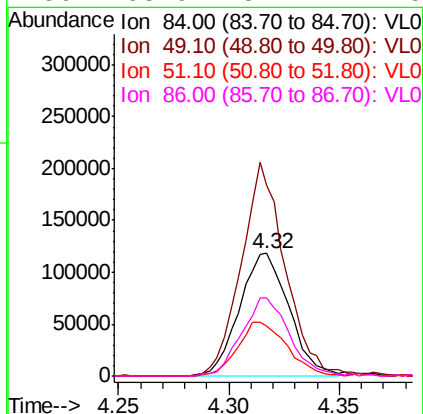
Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND DL

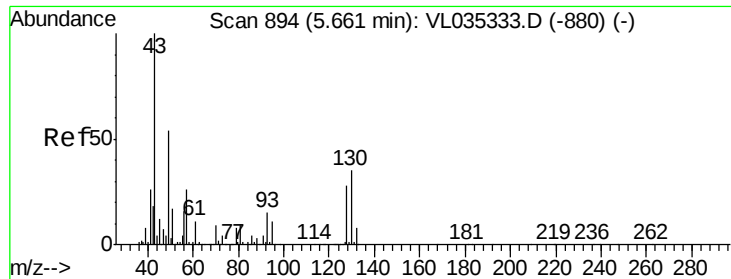
Tot Ion: 39 Resp: 99912
 Ion Ratio Lower Upper
 39 100
 54 6.5 64.4 96.6#



#20
 Methylene Chloride
 Concen: 2.499 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VL035374.D
 Acq: 10 Aug 2020 14:57

Tgt Ion: 84 Resp: 184220
 Ion Ratio Lower Upper
 84 100
 49 155.9 122.8 184.2
 51 40.6 40.1 60.1
 86 63.9 51.7 77.5





#25

Ethyl Acetate

Concen: 0.132 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND DL

Tot Ion: 43 Resp: 36231

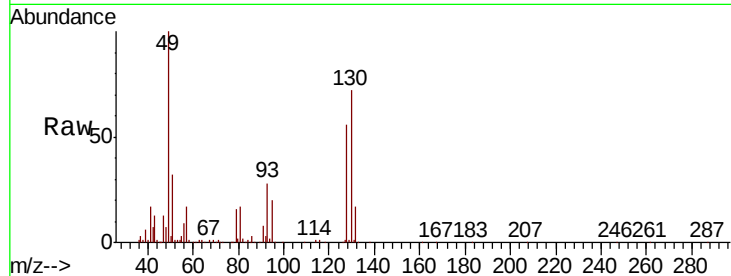
Ion Ratio Lower Upper

43 100

45 1.1 8.5 12.7#

61 0.8 8.1 12.1#

70 0.0 6.5 9.7#

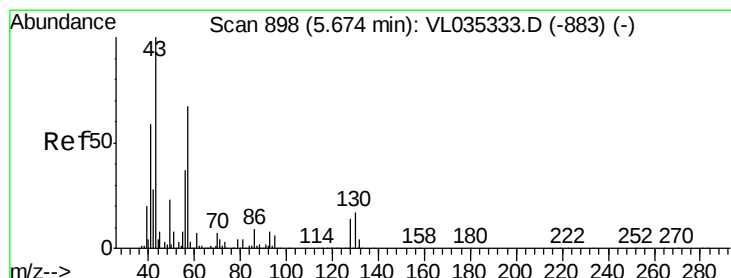
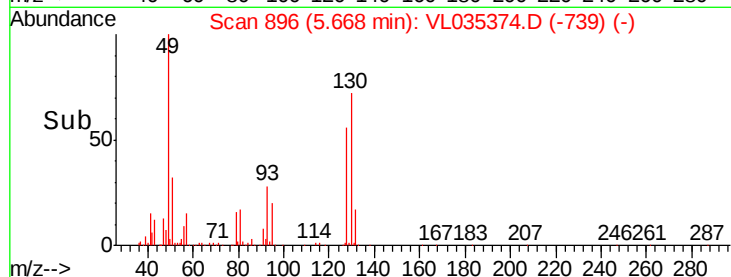
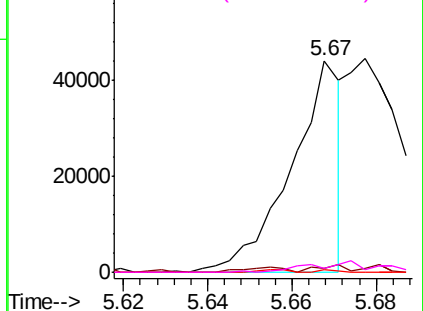


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.934 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Tgt Ion: 57 Resp: 111230

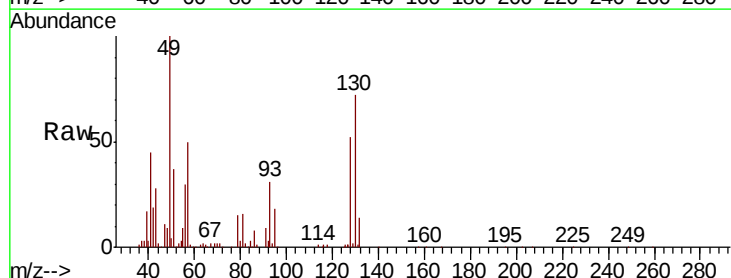
Ion Ratio Lower Upper

57 100

41 103.1 75.2 112.8

43 72.1 180.6 270.8#

56 62.2 43.0 64.6

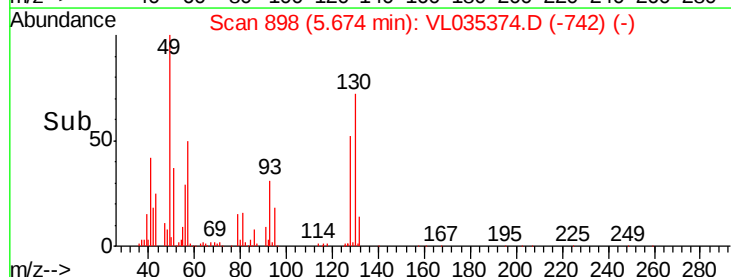
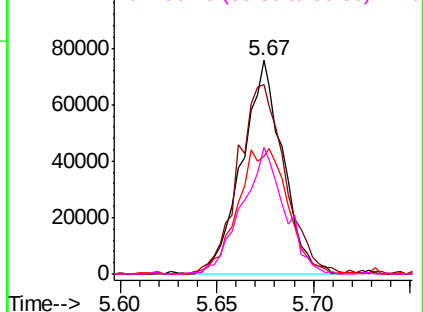


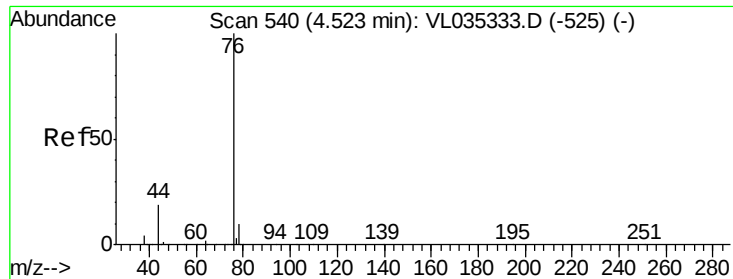
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.045 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND DL

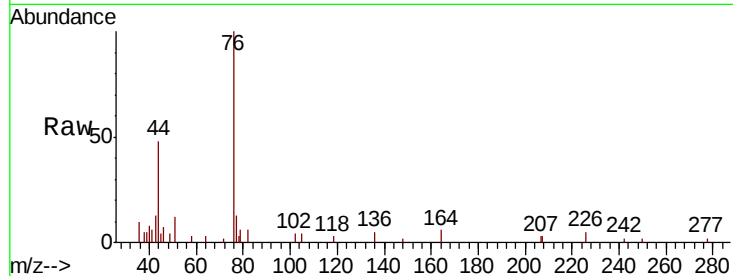
Tot Ion: 76 Resp: 7567

Ion Ratio Lower Upper

76 100

44 31.5 15.4 23.2#

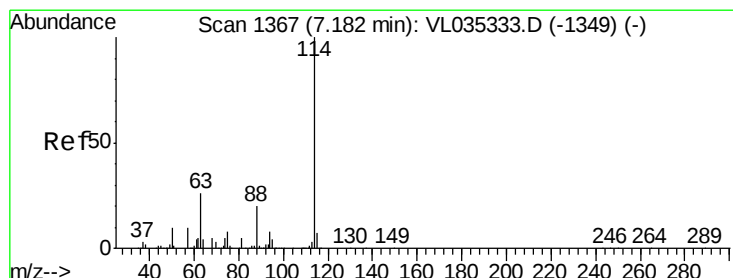
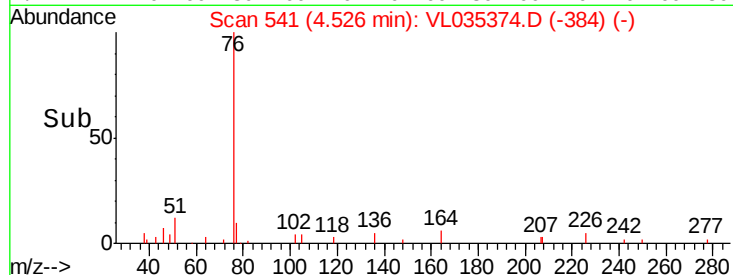
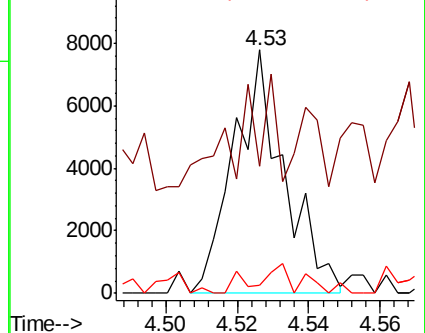
78 10.6 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

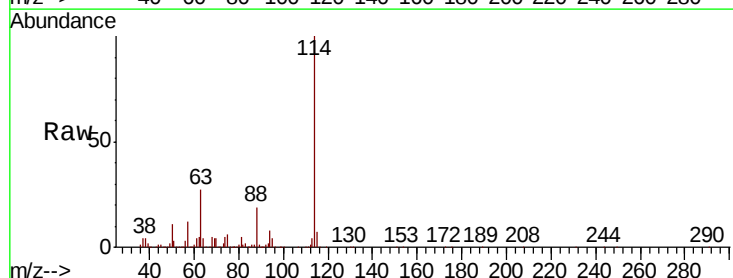
Tgt Ion: 114 Resp: 3106602

Ion Ratio Lower Upper

114 100

63 26.4 21.3 31.9

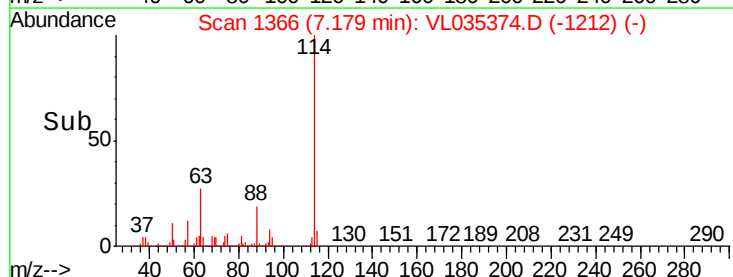
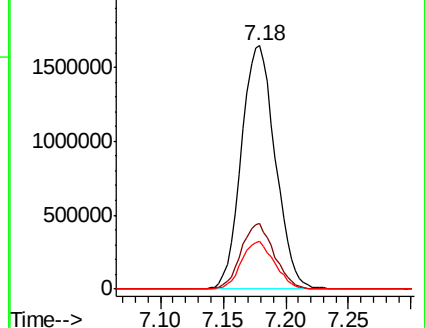
88 19.0 15.3 22.9

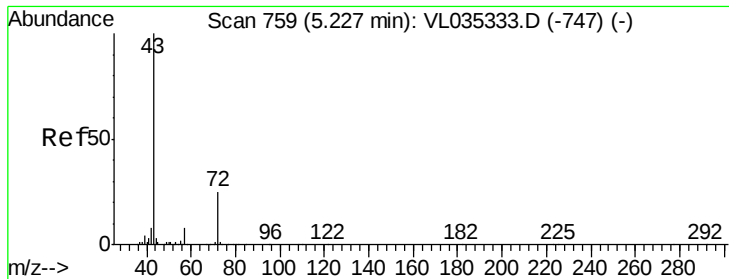


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

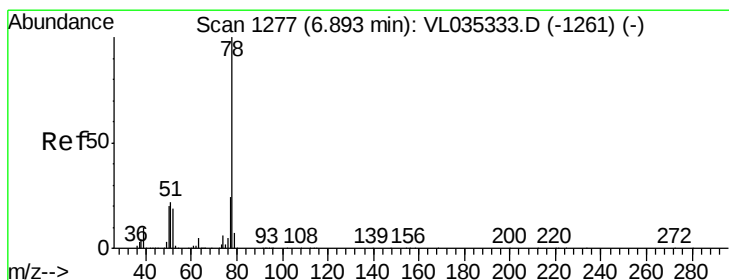
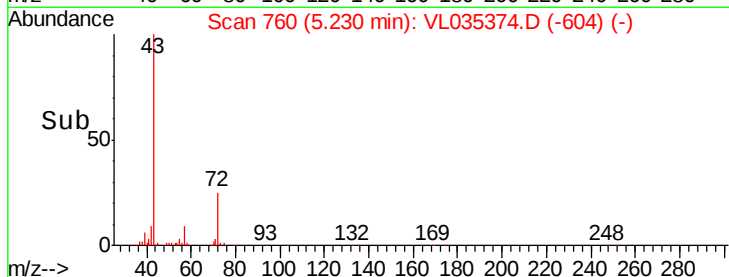
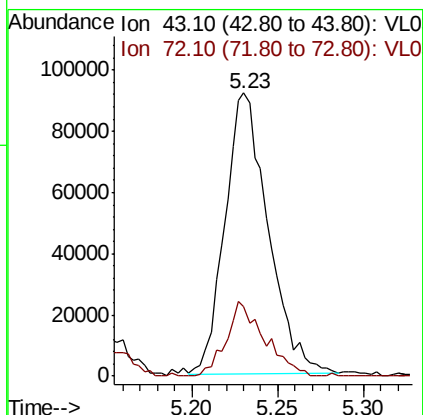
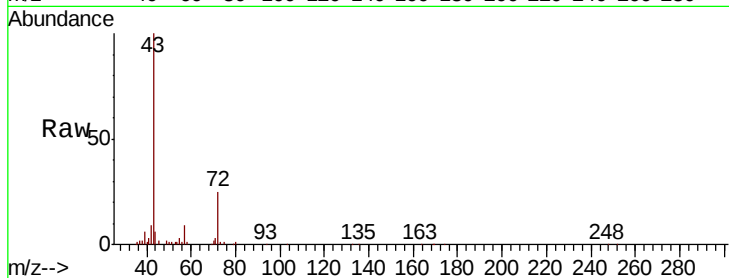




#34
2-Butanone
Concen: 1.058 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.00 min
Lab File: VL035374.D
Acq: 10 Aug 2020 14:57

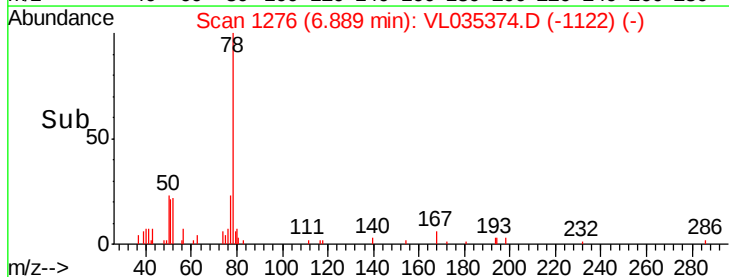
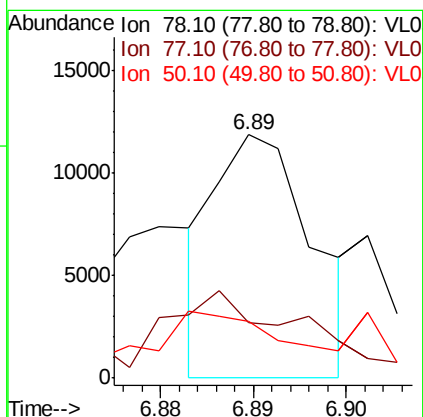
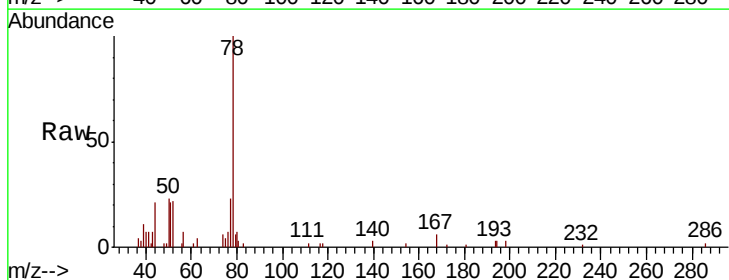
Instrument :
MSVOA_L
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4-UNDER-GROUND DL

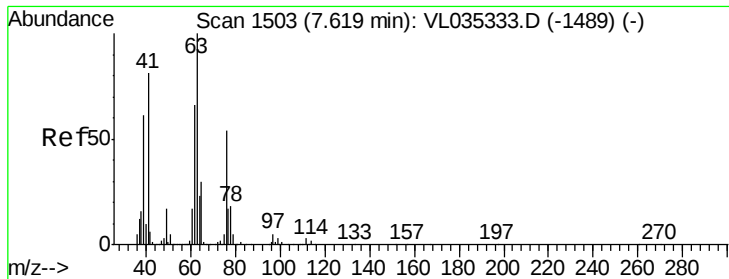
Tot Ion: 43 Resp: 161764
Ion Ratio Lower Upper
43 100
72 23.6 18.9 28.3



#36
Benzene
Concen: 0.041 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035374.D
Acq: 10 Aug 2020 14:57

Tgt Ion: 78 Resp: 8673
Ion Ratio Lower Upper
78 100
77 14.5 19.3 28.9#
50 24.0 16.3 24.5





#39

1,2-Dichloropropane

Concen: 9.527 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND DL

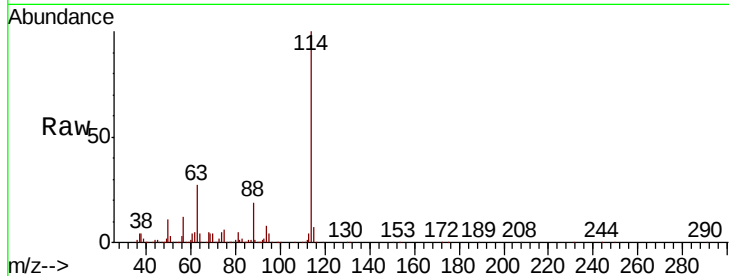
Tot Ion: 63 Resp: 809035

Ion Ratio Lower Upper

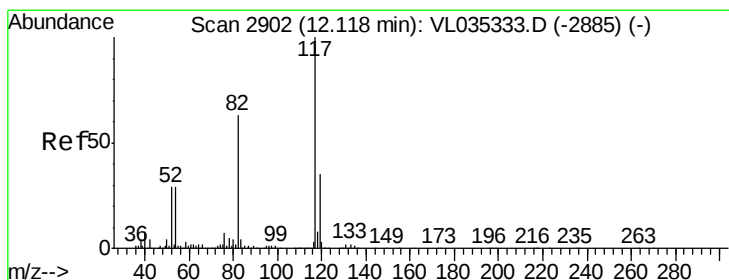
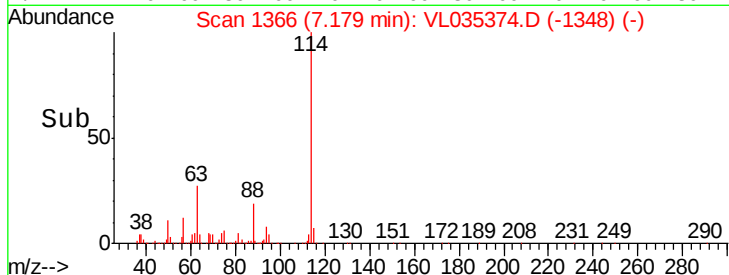
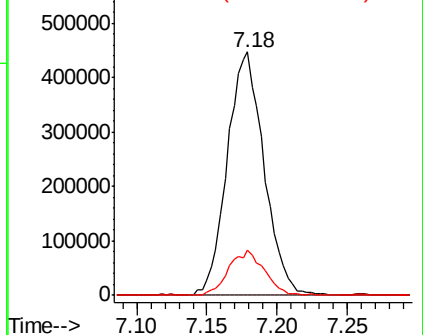
63 100

41 0.0 64.4 96.6#

62 18.3 52.6 78.8#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL035374.D

Acq: 10 Aug 2020 14:57

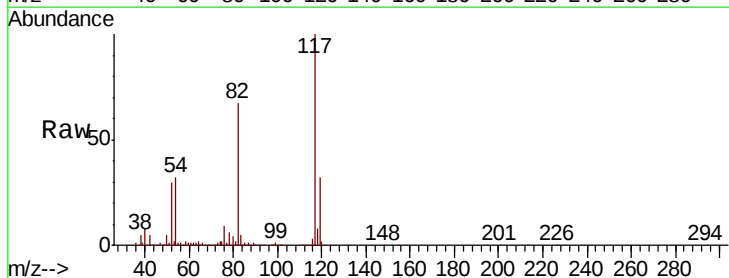
Tgt Ion: 117 Resp: 2857639

Ion Ratio Lower Upper

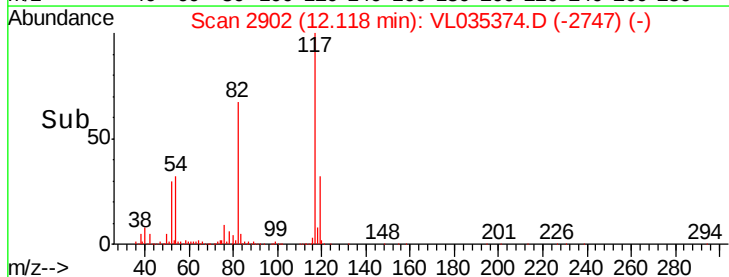
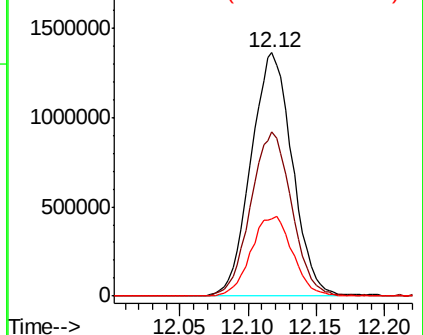
117 100

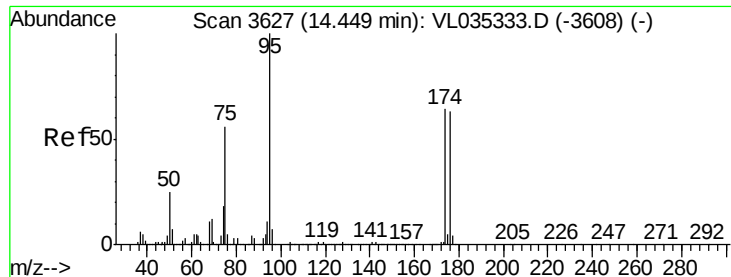
82 67.4 51.0 76.4

119 33.3 24.7 37.1



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

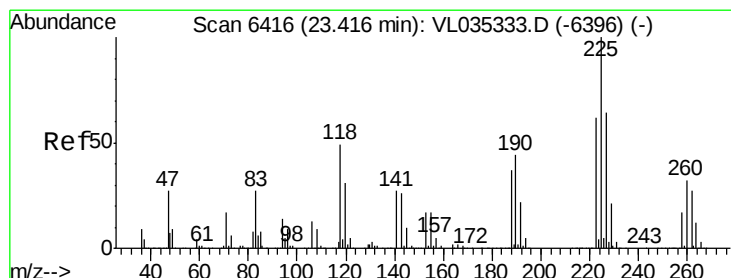
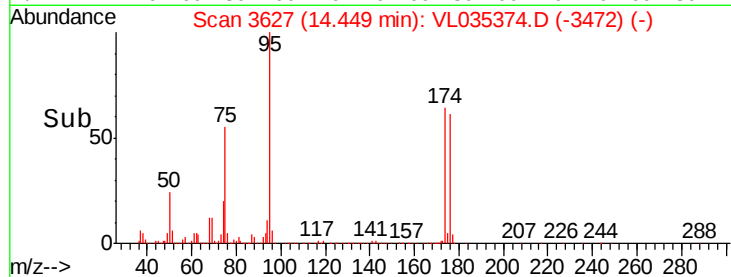
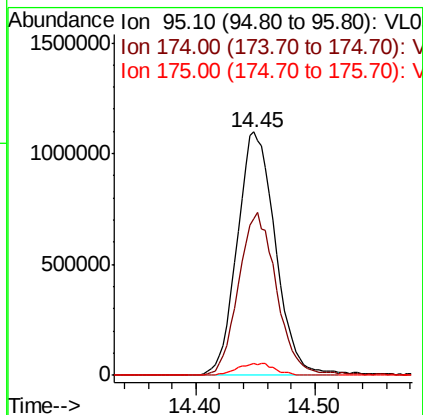
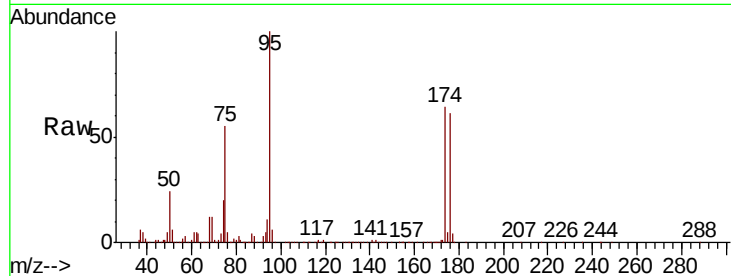




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.234 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL035374.D
 Acq: 10 Aug 2020 14:57

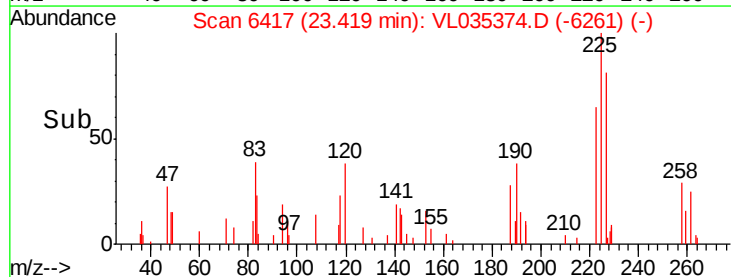
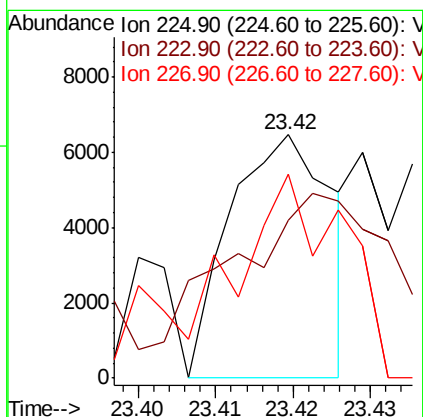
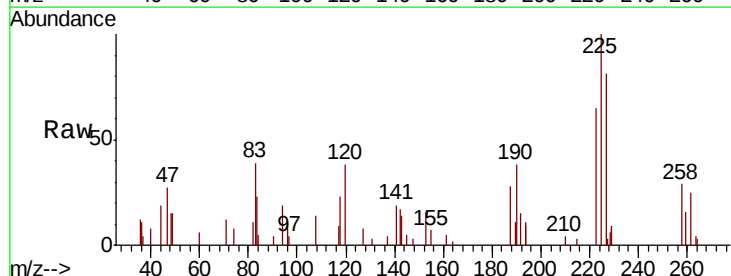
Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

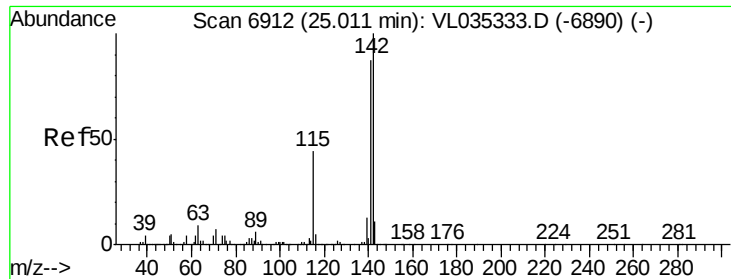
Tot Ion: 95 Resp: 2438857
 Ion Ratio Lower Upper
 95 100
 174 66.8 53.5 80.3
 175 5.0 4.2 6.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.034 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. 0.00 min
 Lab File: VL035374.D
 Acq: 10 Aug 2020 14:57

Tgt Ion: 225 Resp: 5922
 Ion Ratio Lower Upper
 225 100
 223 176.2 50.3 75.5#
 227 122.0 52.7 79.1#





#80
 Naphthalene, 2-methyl-
 Concen: 0.079 ppbv
 RT: 25.02 min Scan# 6915
 Delta R.T. 0.01 min
 Lab File: VL035374.D
 Acq: 10 Aug 2020 14:57

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion:142 Resp: 4773
 Ion Ratio Lower Upper
 142 100
 141 97.0 69.0 103.6
 115 61.1 35.5 53.3#

