

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035215.D
 Acq On : 21 Jul 2020 17:19
 Operator : SY/AP
 Sample : L3290-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1ST-FLOOR-EAST-CLASSROOMDU

Quant Time: Jul 22 00:48:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1027997	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2457865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2356462	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1927862	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

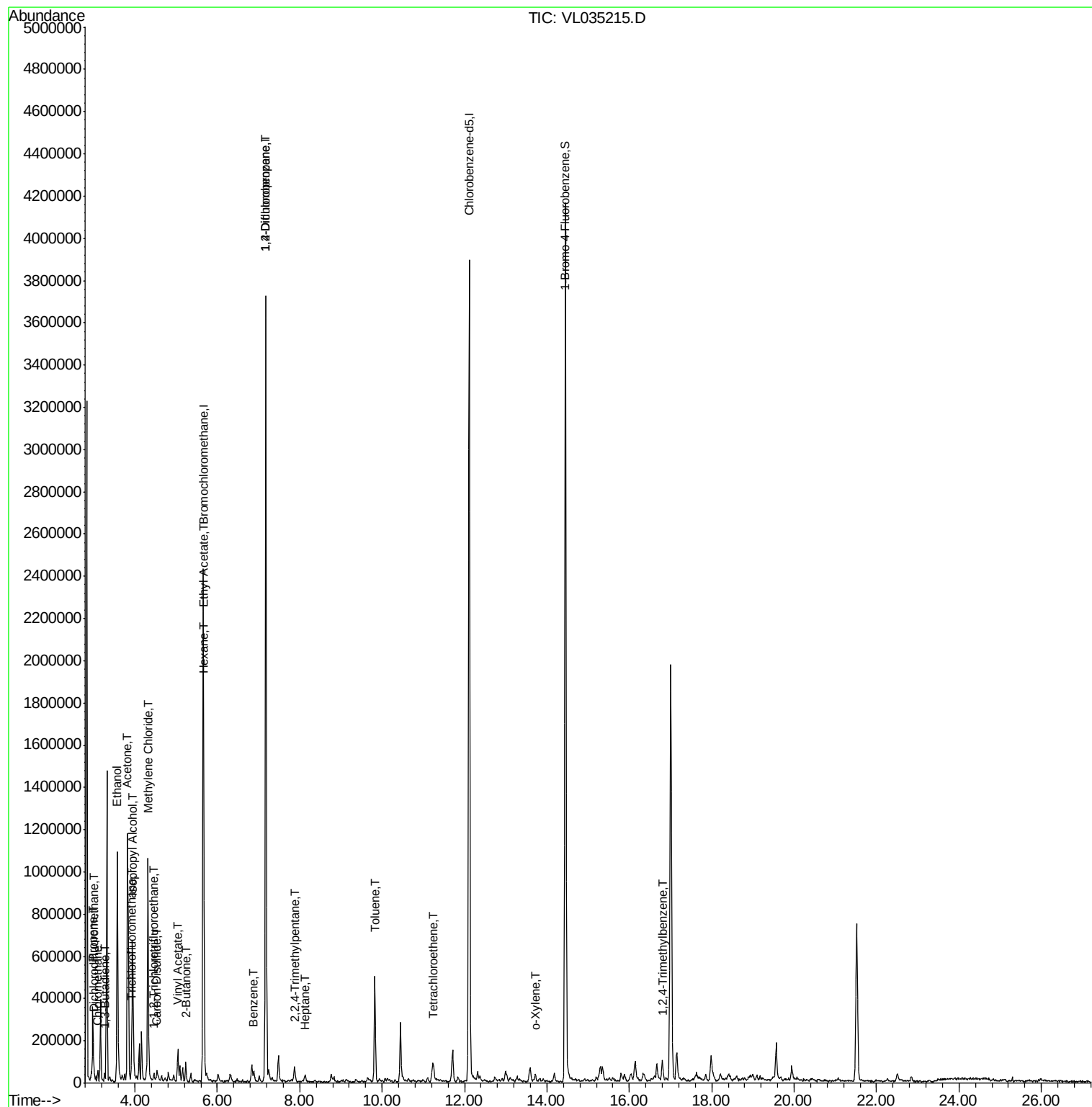
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	33956	0.236	ppbv #	84
4) Chloromethane	3.11	50	35733	0.558	ppbv	96
9) Propene	2.98	41	70391	1.640	ppbv #	77
10) Heptane	8.12	43	7020	0.064	ppbv #	26
11) Trichlorofluoromethane	3.91	101	23443	0.144	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.46	101	8112	0.071	ppbv	89
13) Ethanol	3.57	45	1092344	79.951	ppbv	95
15) Acetone	3.82	43	1225648	8.807	ppbv	97
16) 1,3-Butadiene	3.27	39	3463	0.065	ppbv #	7
19) Isopropyl Alcohol	3.94	45	708307	8.436	ppbv	100
20) Methylene Chloride	4.32	84	344640	5.691	ppbv	93
23) Vinyl Acetate	5.04	43	92635	0.615	ppbv #	83
25) Ethyl Acetate	5.67	43	114486	0.530	ppbv #	84
26) Hexane	5.68	57	146220	1.535	ppbv #	43
27) Carbon Disulfide	4.53	76	9662	0.073	ppbv #	1
34) 2-Butanone	5.23	43	77132	0.588	ppbv	94
36) Benzene	6.89	78	5554	0.031	ppbv #	61
39) 1,2-Dichloropropane	7.18	63	672064	9.500	ppbv #	22
44) 2,2,4-Trimethylpentane	7.87	57	18644	0.061	ppbv #	1
52) Tetrachloroethene	11.24	164	3961	0.060	ppbv #	37
53) Toluene	9.82	91	343461	1.829	ppbv	97
60) o-Xylene	13.73	91	12582	0.054	ppbv #	60
74) 1,2,4-Trimethylbenzene	16.80	105	54482	0.196	ppbv #	70

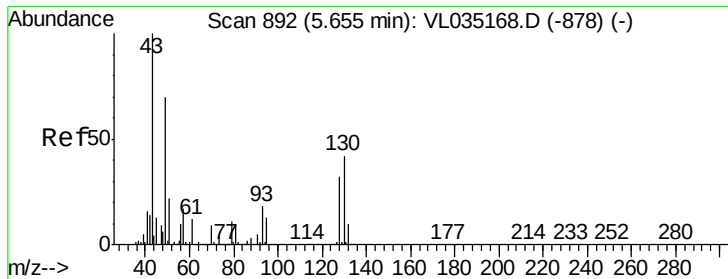
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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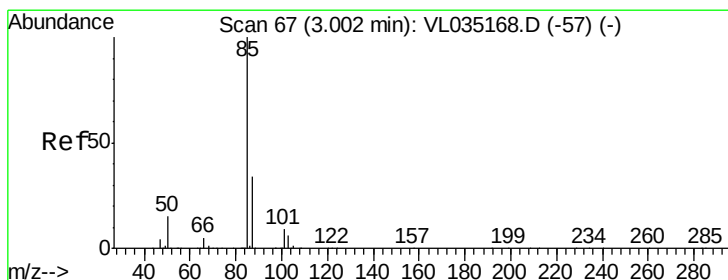
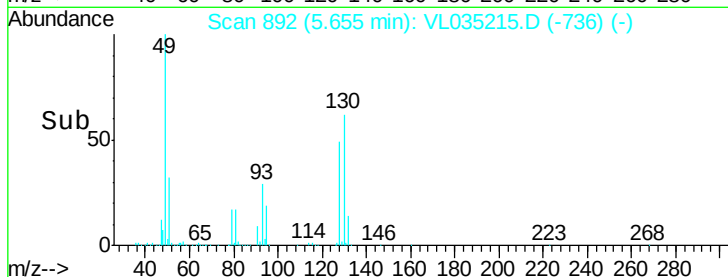
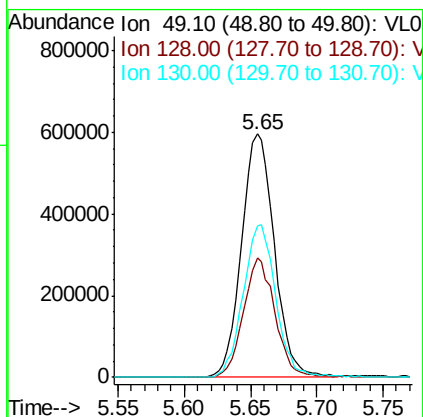
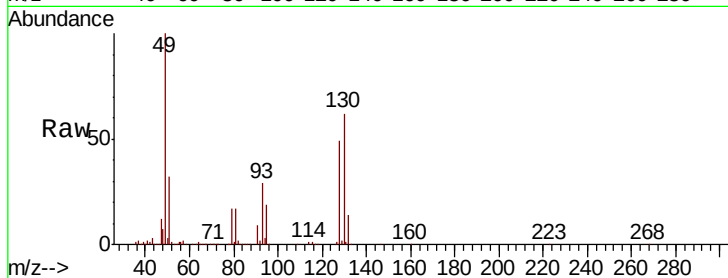




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

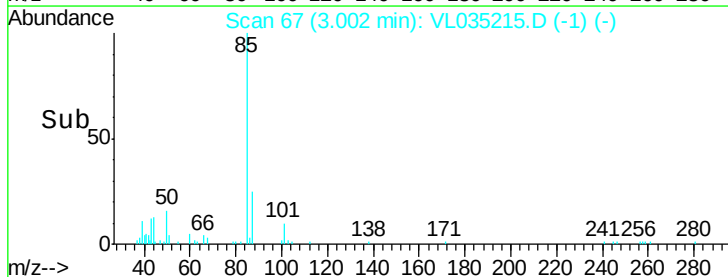
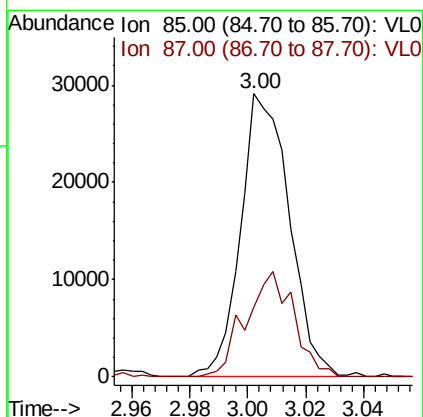
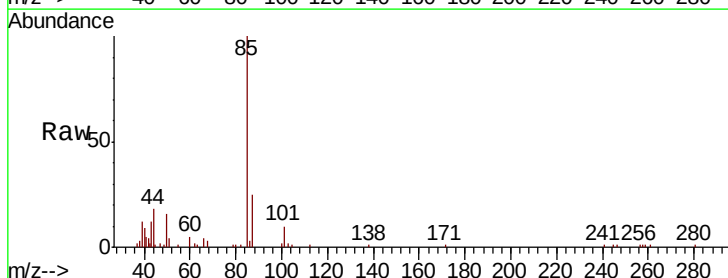
Instrument :
 MSVOA_L
 ClientSampleId :
 1ST-FLOOR-EAST-CLASSROOMDU

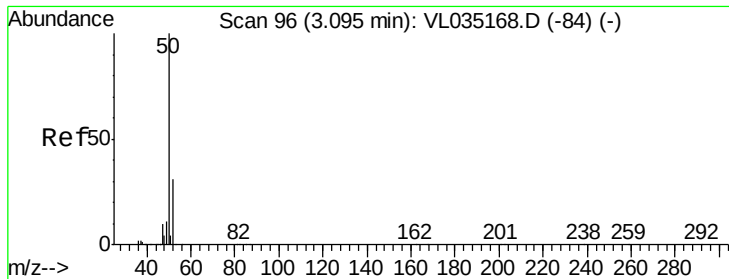
Tot Ion: 49 Resp: 1027997
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.8 71.4
 130 62.3 29.9 89.8



#2
 Dichlorodifluoromethane
 Concen: 0.236 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. 0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Tgt Ion: 85 Resp: 33956
 Ion Ratio Lower Upper
 85 100
 87 24.7 27.0 40.6#





#4

Chloromethane

Concen: 0.558 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.01 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

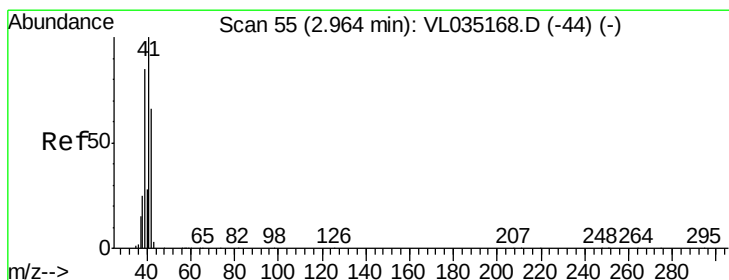
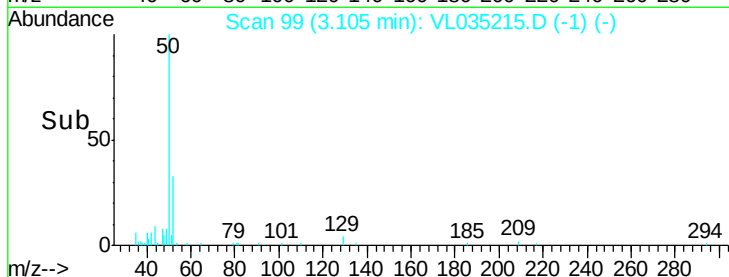
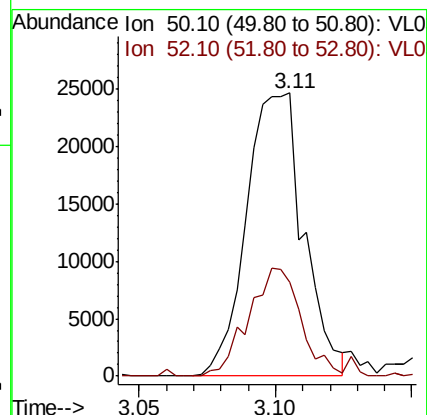
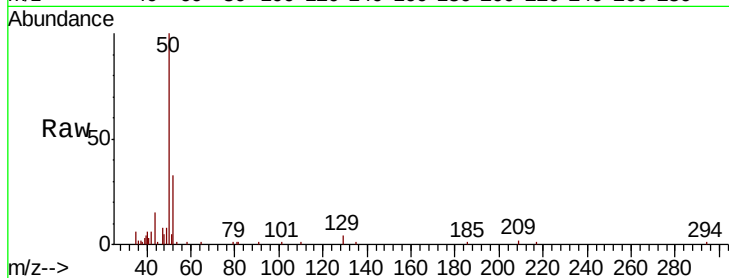
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion: 50 Resp: 35733

Ion Ratio Lower Upper

50 100

52 33.3 25.0 37.6



#9

Propene

Concen: 1.640 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.02 min

Lab File: VL035215.D

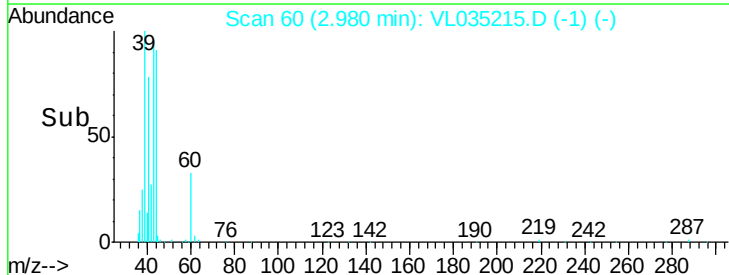
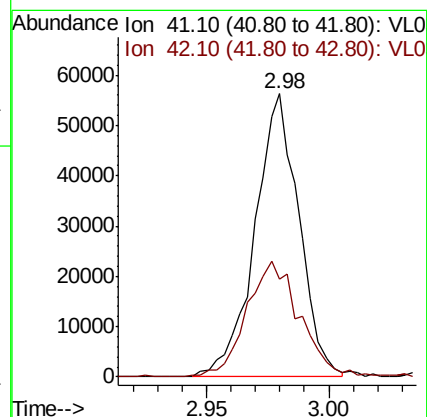
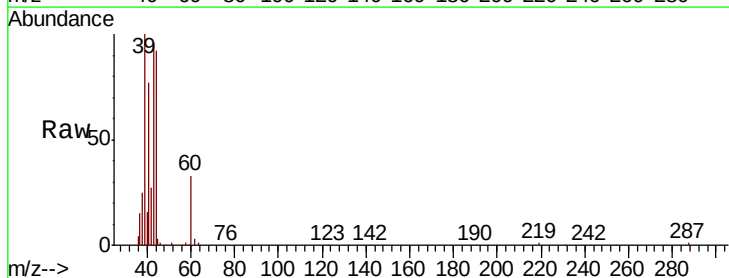
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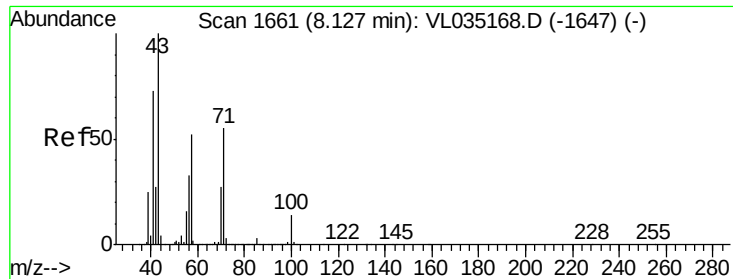
Tgt Ion: 41 Resp: 70391

Ion Ratio Lower Upper

41 100

42 49.8 54.6 81.8#





#10

Heptane

Concen: 0.064 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

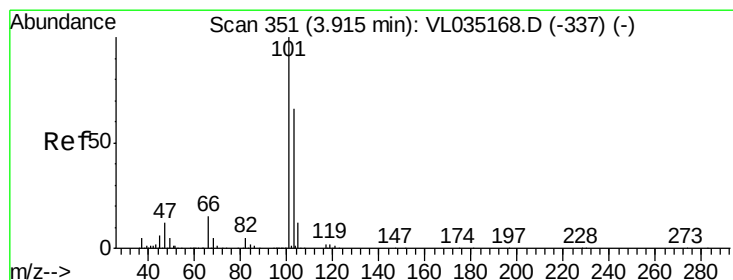
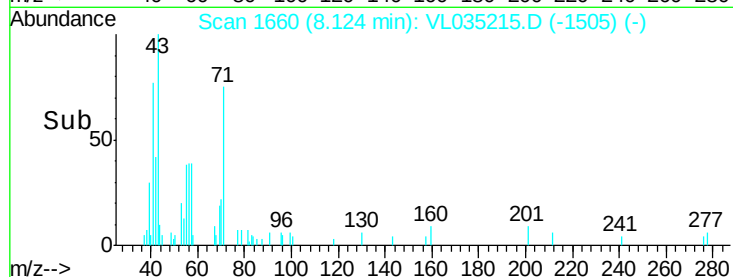
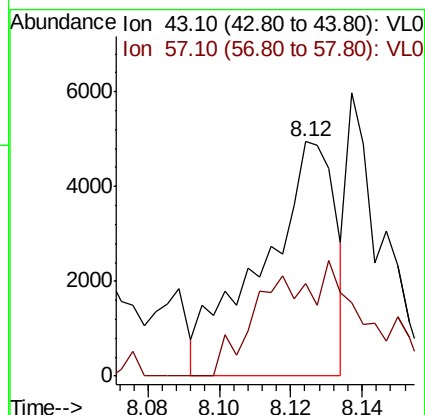
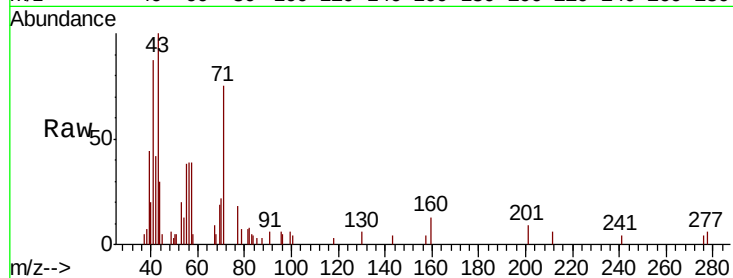
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion: 43 Resp: 7020

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#



#11

Trichlorofluoromethane

Concen: 0.144 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.00 min

Lab File: VL035215.D

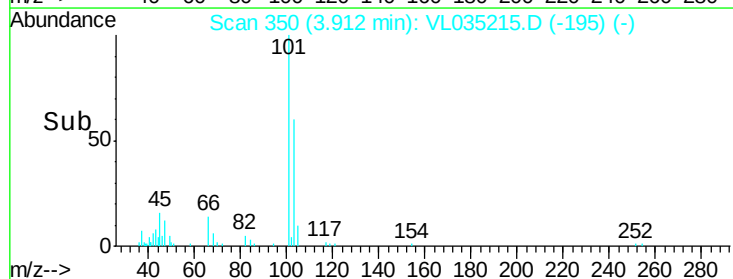
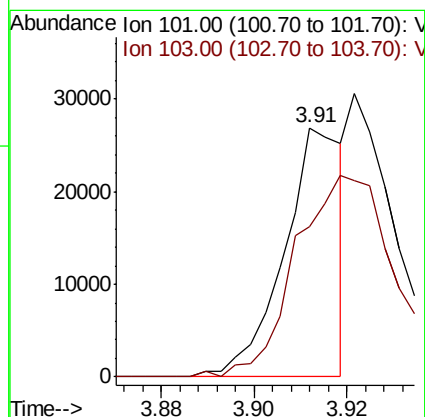
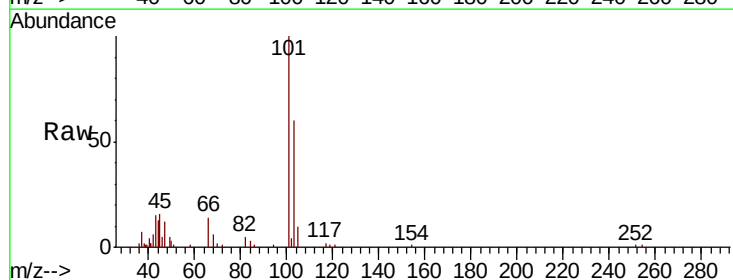
Acq: 21 Jul 2020 17:19

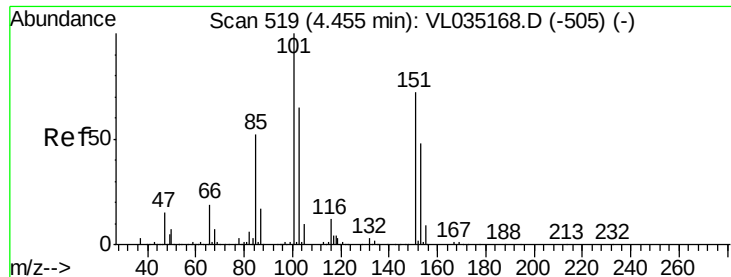
Tgt Ion:101 Resp: 23443

Ion Ratio Lower Upper

101 100

103 60.1 53.1 79.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.46 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

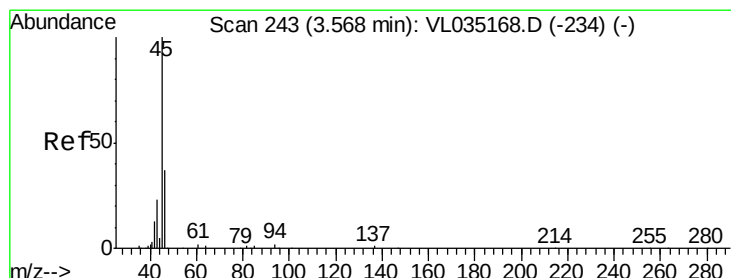
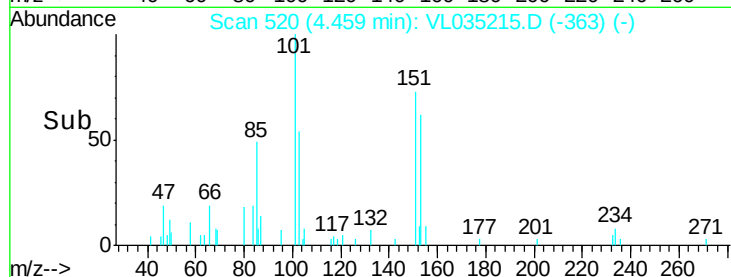
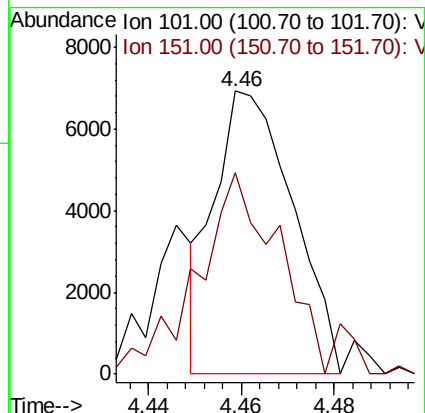
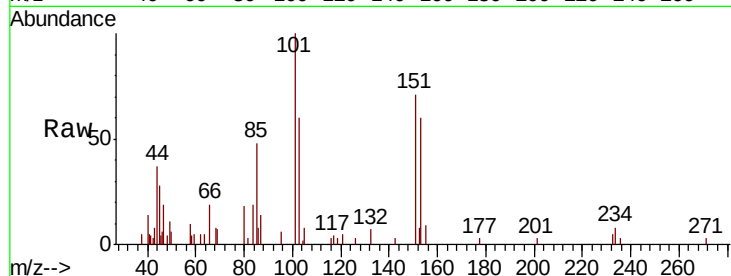
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion:101 Resp: 8112

Ion Ratio Lower Upper

101 100

151 80.5 57.0 85.4



#13

Ethanol

Concen: 79.951 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.00 min

Lab File: VL035215.D

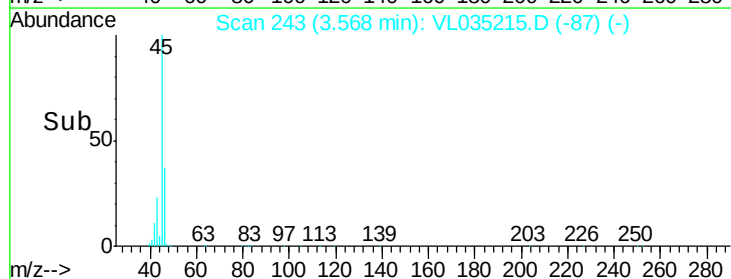
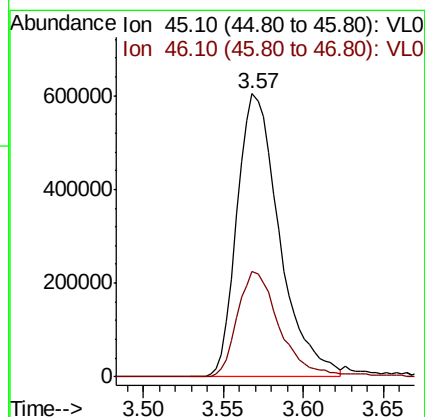
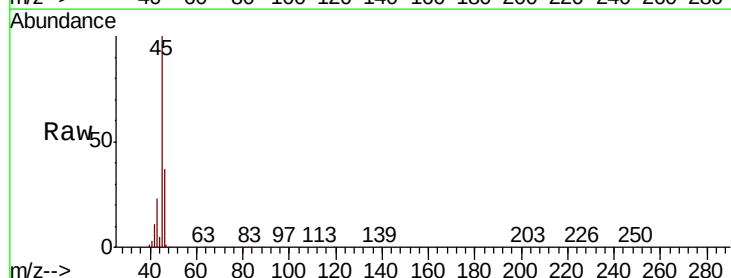
Acq: 21 Jul 2020 17:19

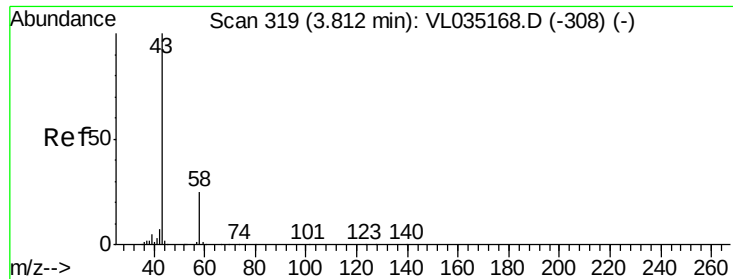
Tgt Ion: 45 Resp: 1092344

Ion Ratio Lower Upper

45 100

46 37.5 16.2 65.0





#15

Acetone

Concen: 8.807 ppbv

RT: 3.82 min Scan# 320

Delta R.T. 0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

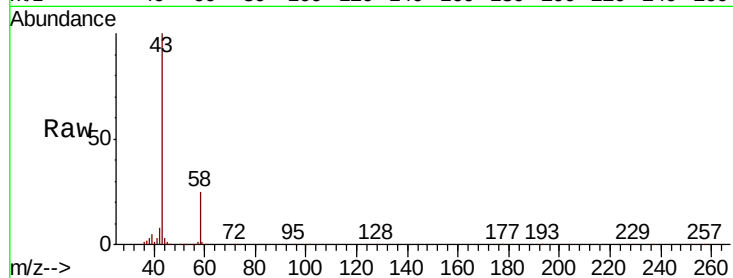
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion: 43 Resp: 1225648

Ion Ratio Lower Upper

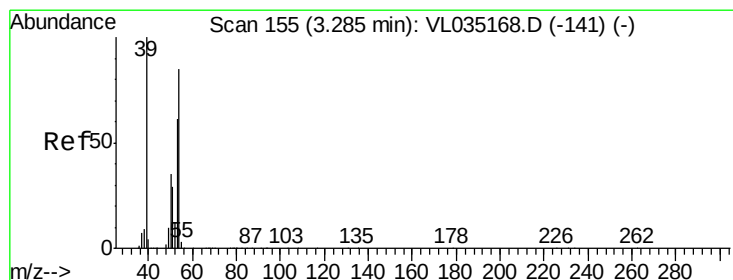
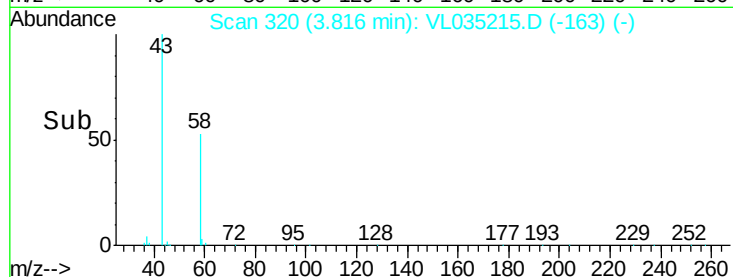
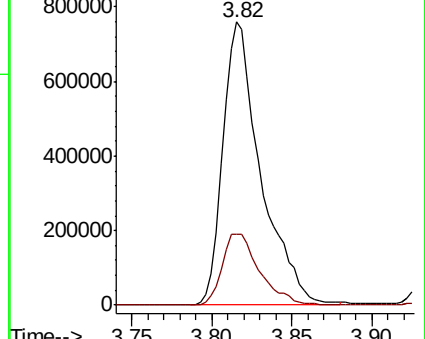
43 100

58 25.1 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.065 ppbv

RT: 3.27 min Scan# 151

Delta R.T. -0.01 min

Lab File: VL035215.D

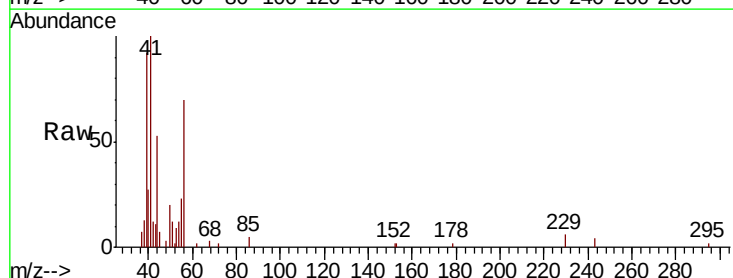
Acq: 21 Jul 2020 17:19

Tgt Ion: 39 Resp: 3463

Ion Ratio Lower Upper

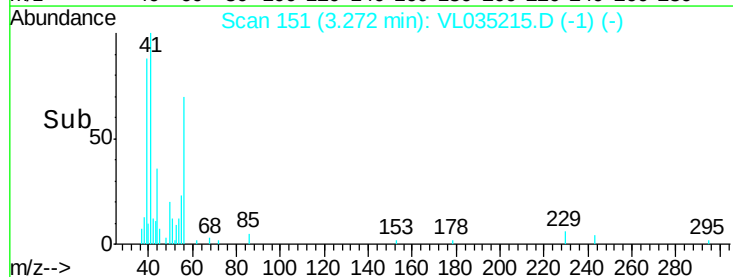
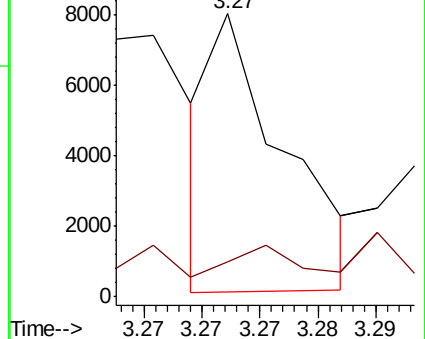
39 100

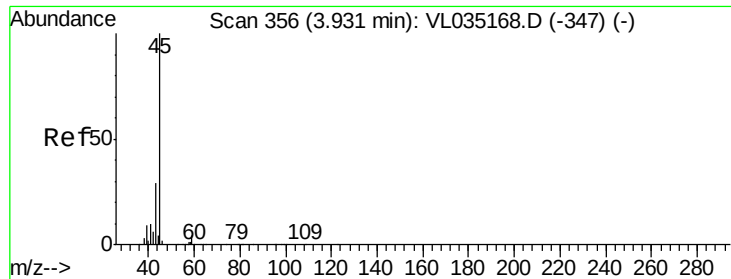
54 0.0 67.2 100.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



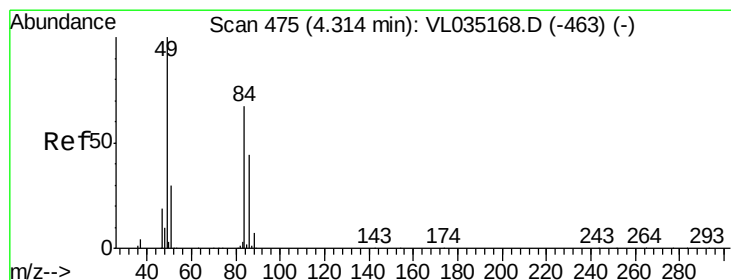
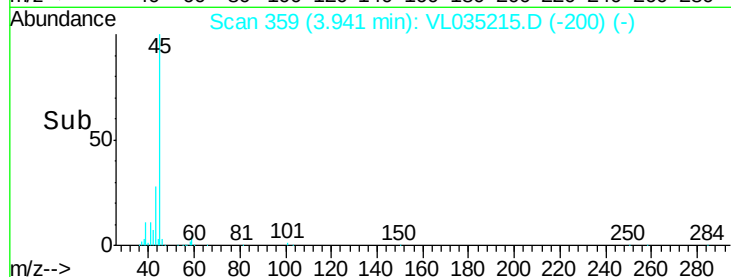
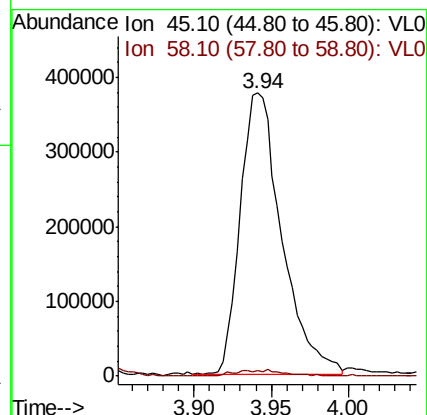
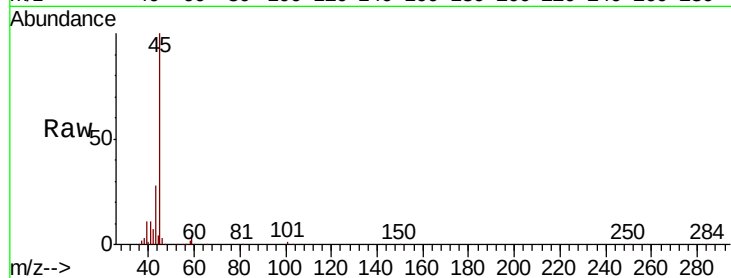


#19

Isopropyl Alcohol
 Concen: 8.436 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.01 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Instrument :
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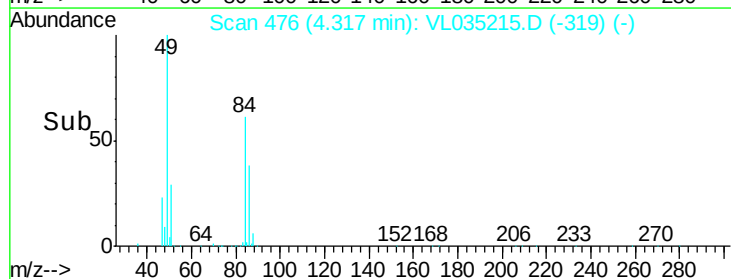
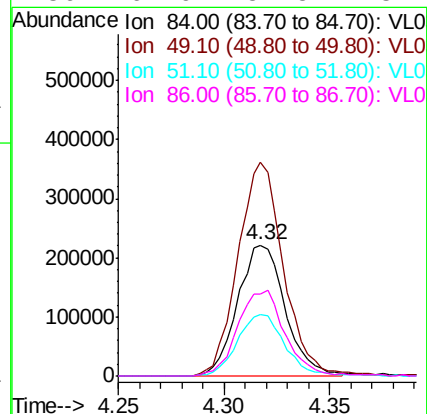
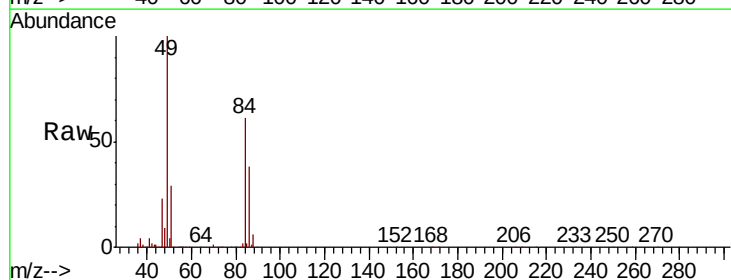
Tot Ion: 45 Resp: 708307
 Ion Ratio Lower Upper
 45 100
 58 2.5 2.1 3.1

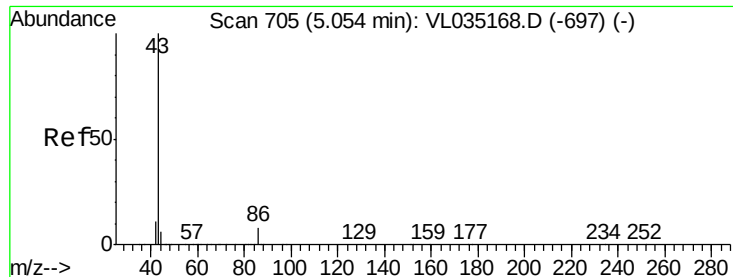


#20

Methylene Chloride
 Concen: 5.691 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Tgt Ion: 84 Resp: 344640
 Ion Ratio Lower Upper
 84 100
 49 163.4 119.4 179.0
 51 46.5 36.6 55.0
 86 62.9 52.5 78.7





#23

Vinyl Acetate

Concen: 0.615 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion: 43 Resp: 92635

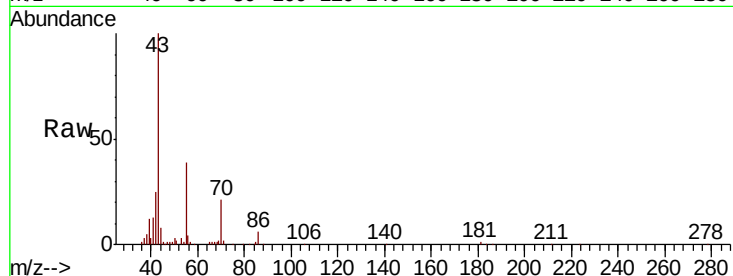
Ion Ratio Lower Upper

43 100

86 5.7 6.2 9.2#

42 23.7 9.1 13.7#

44 5.6 4.6 6.8

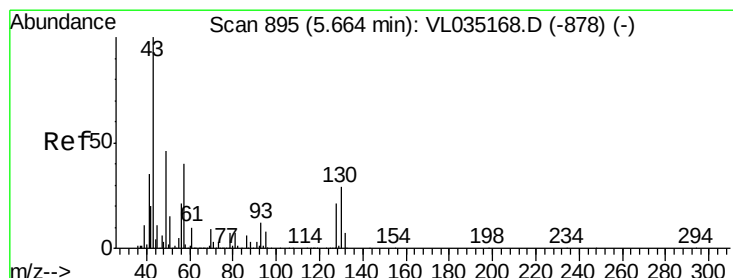
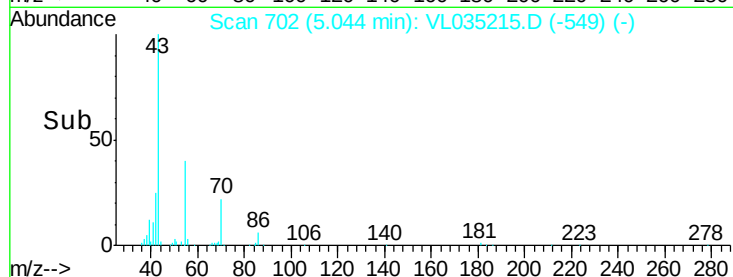
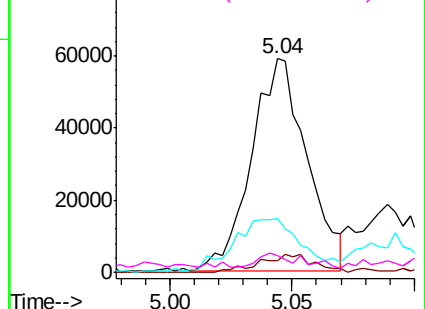


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.530 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Tgt Ion: 43 Resp: 114486

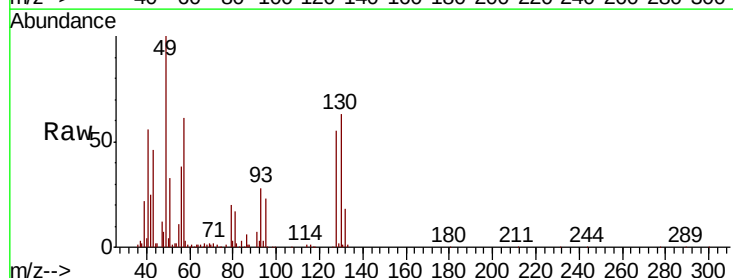
Ion Ratio Lower Upper

43 100

45 5.3 8.5 12.7#

61 2.7 8.1 12.1#

70 3.6 6.3 9.5#

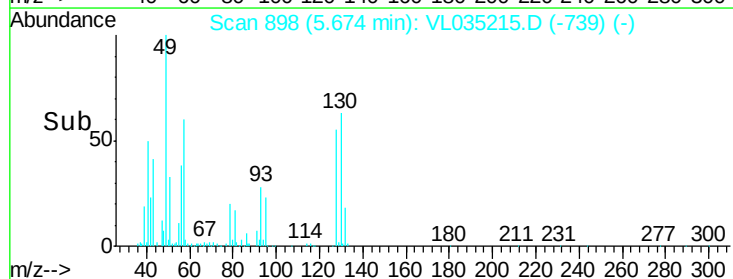
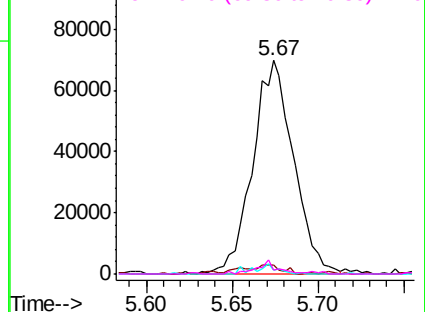


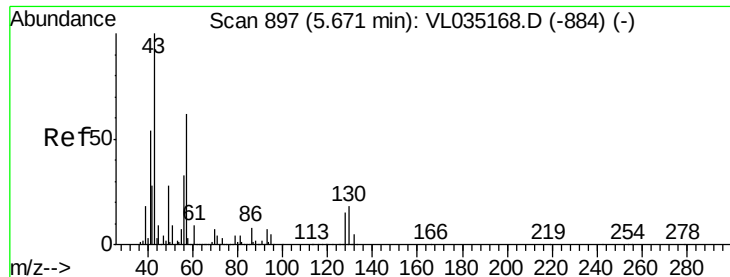
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

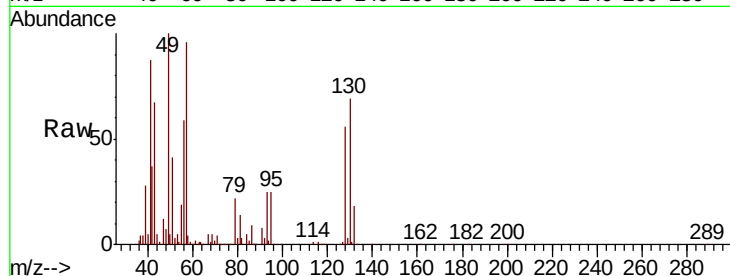




#26
Hexane
Concen: 1.535 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

Instrument :
MSVOA_L
ClientSampleId :
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion	57	Resp	146220
Ion	Ratio	Lower	Upper
57	100		
41	98.4	72.9	109.3
43	79.4	179.5	269.3#
56	60.1	42.9	64.3



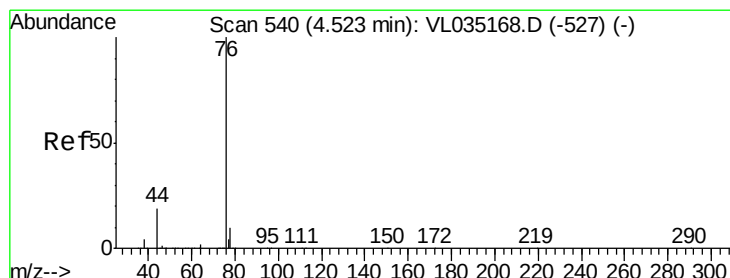
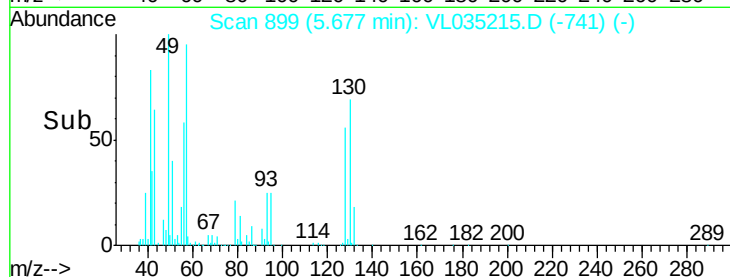
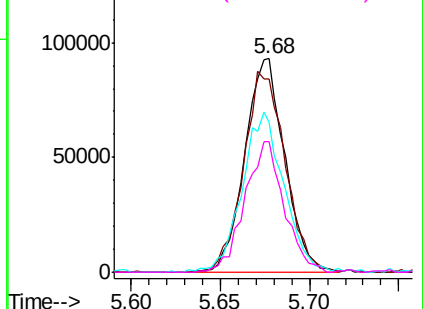
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

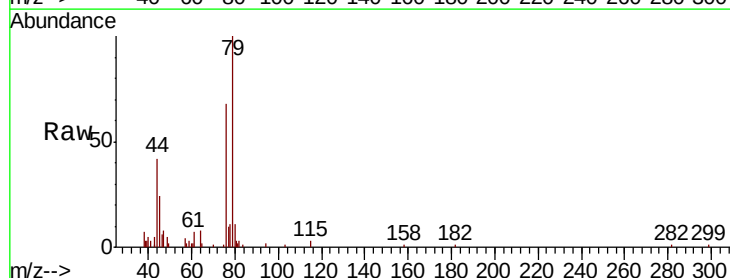
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 0.073 ppbv
RT: 4.53 min Scan# 542
Delta R.T. 0.01 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

Tgt Ion	76	Resp	9662
Ion	Ratio	Lower	Upper
76	100		
44	72.0	14.9	22.3#
78	43.6	7.5	11.3#

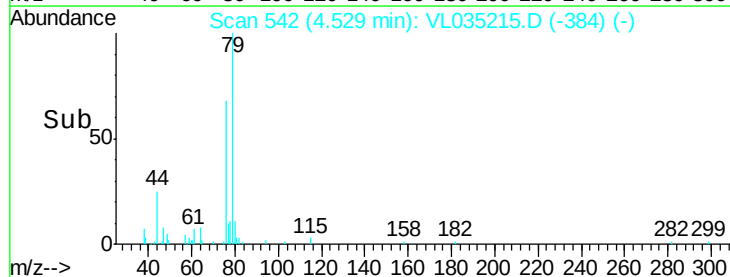
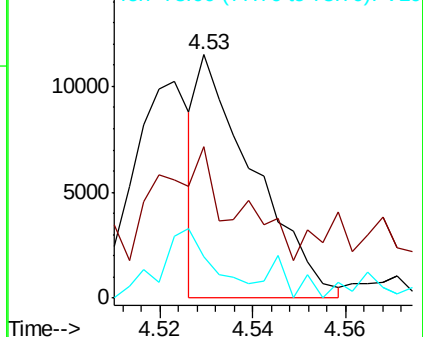


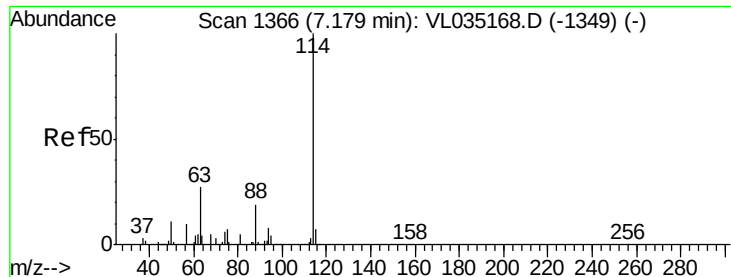
Abundance

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

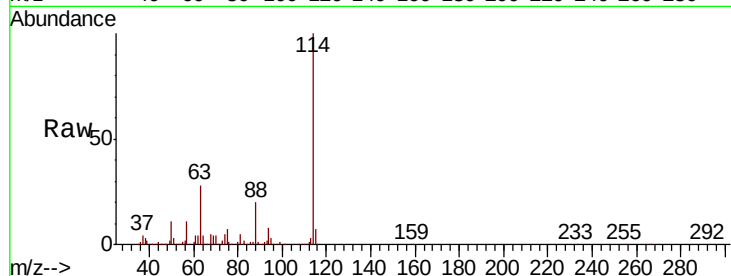




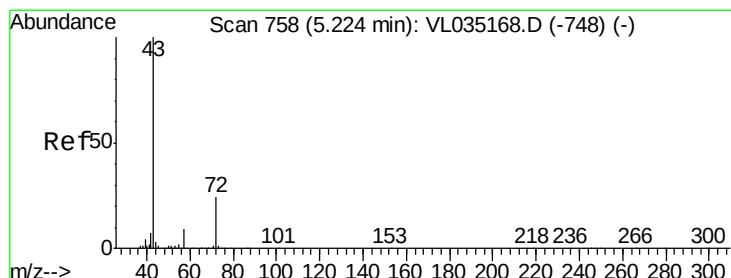
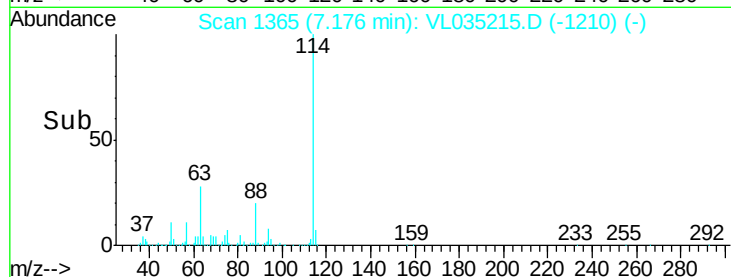
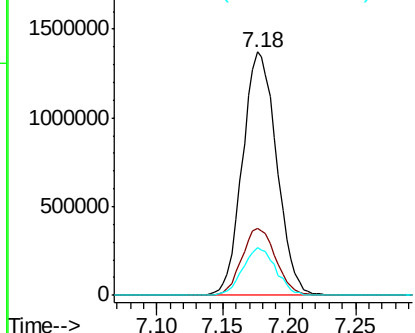
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion:114 Resp: 2457865
 Ion Ratio Lower Upper
 114 100
 63 27.4 22.0 33.0
 88 19.1 15.4 23.0

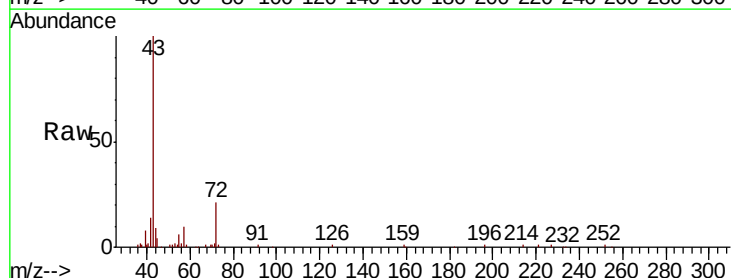


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

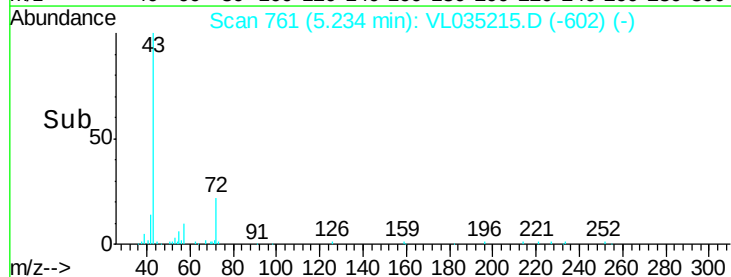
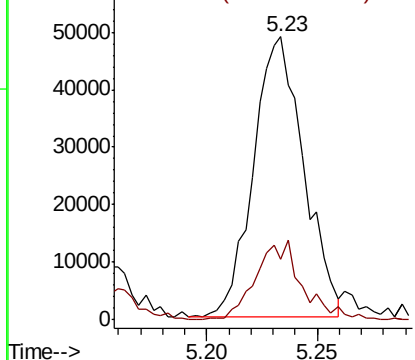


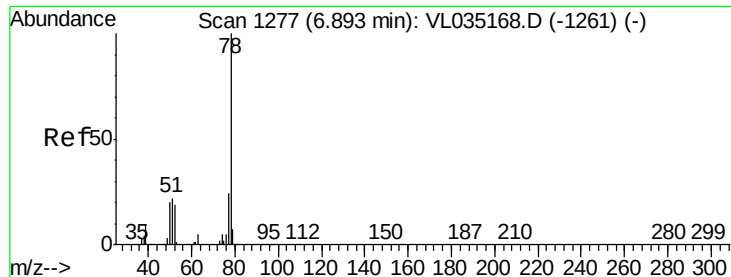
#34
 2-Butanone
 Concen: 0.588 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Tgt Ion: 43 Resp: 77132
 Ion Ratio Lower Upper
 43 100
 72 26.2 18.6 28.0



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

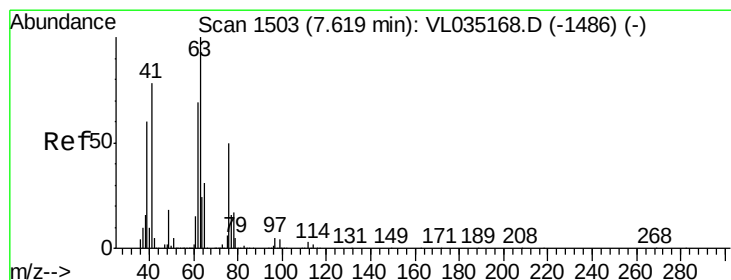
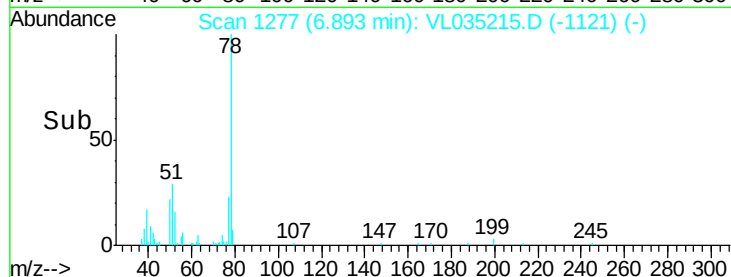
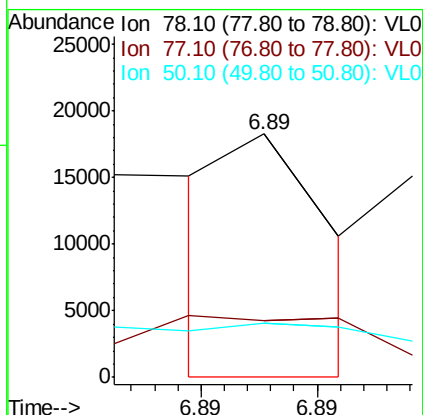
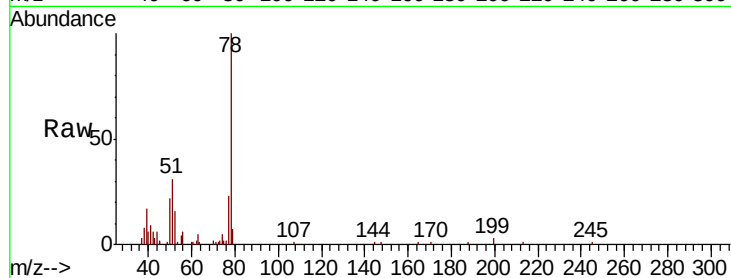




#36
Benzene
Concen: 0.031 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

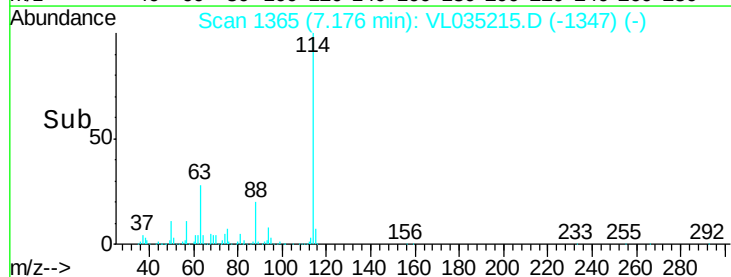
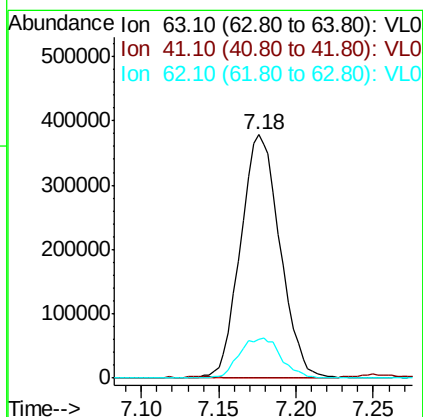
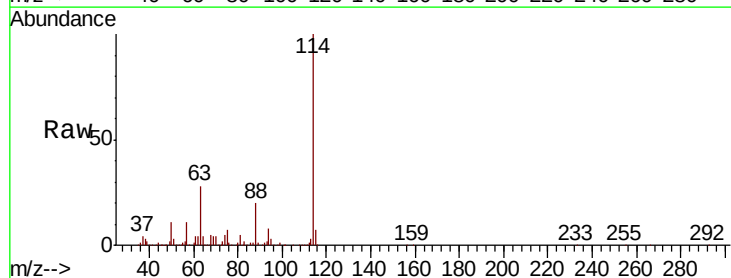
Instrument :
MSVOA_L
ClientSampleId :
1ST-FLOOR-EAST-CLASSROOMDU

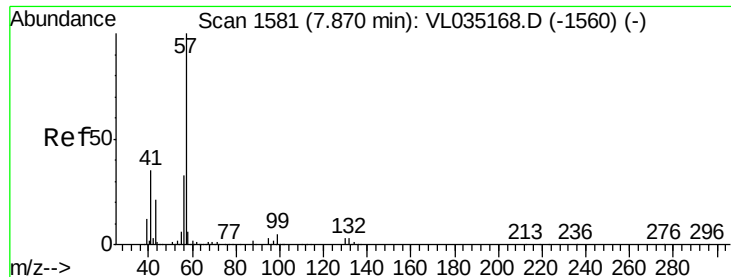
Tot Ion: 78 Resp: 5554
Ion Ratio Lower Upper
78 100
77 0.0 19.3 28.9#
50 7.5 16.0 24.0#



#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.44 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

Tgt Ion: 63 Resp: 672064
Ion Ratio Lower Upper
63 100
41 0.1 62.6 94.0#
62 16.1 55.0 82.6#

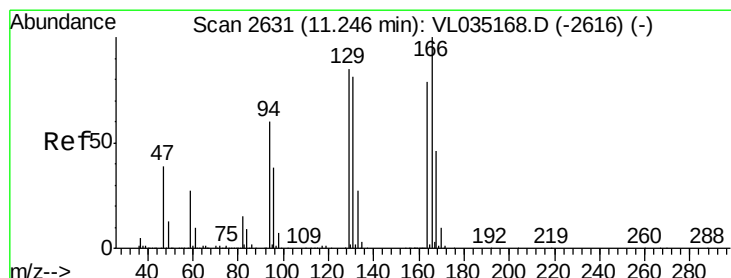
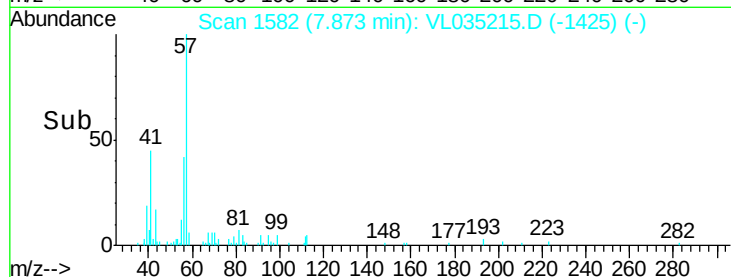
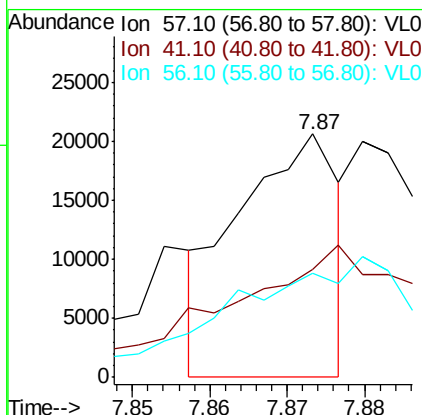
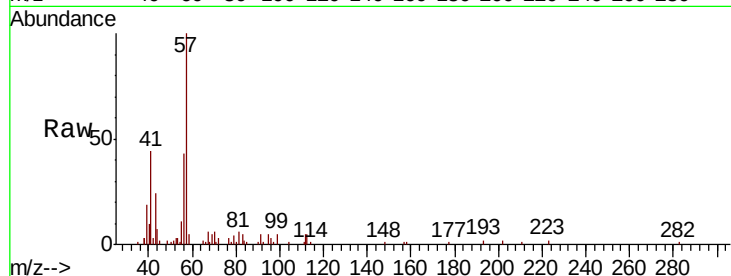




#44
 2,2,4-Trimethylpentane
 Concen: 0.061 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

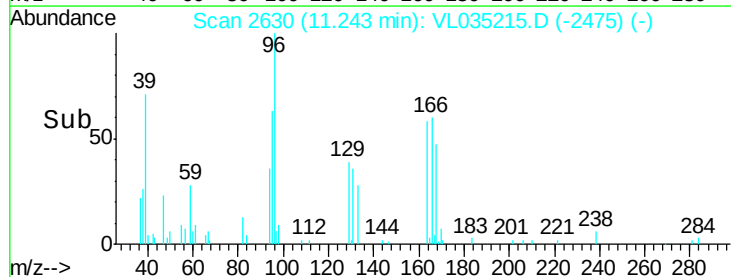
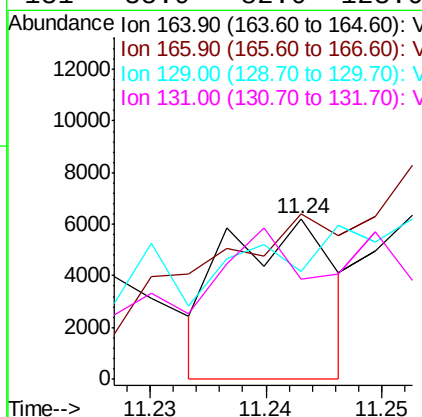
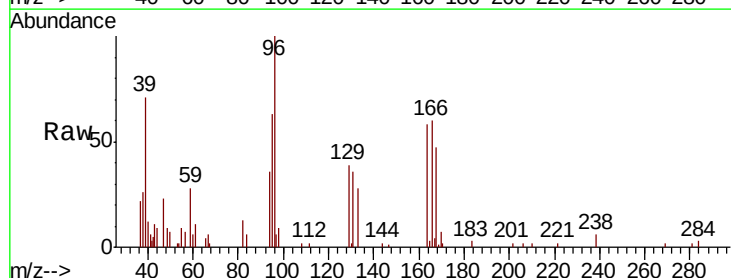
Instrument :
 MSVOA_L
 ClientSampleId :
 1ST-FLOOR-EAST-CLASSROOMDU

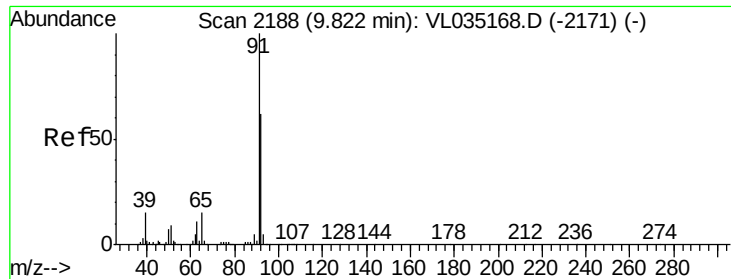
Tot Ion: 57 Resp: 18644
 Ion Ratio Lower Upper
 57 100
 41 128.4 27.0 40.6#
 56 0.0 25.5 38.3#



#52
 Tetrachloroethene
 Concen: 0.060 ppbv
 RT: 11.24 min Scan# 2630
 Delta R.T. -0.00 min
 Lab File: VL035215.D
 Acq: 21 Jul 2020 17:19

Tgt Ion: 164 Resp: 3961
 Ion Ratio Lower Upper
 164 100
 166 62.3 100.7 151.1#
 129 35.6 85.8 128.6#
 131 35.9 82.0 123.0#





#53

Toluene

Concen: 1.829 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

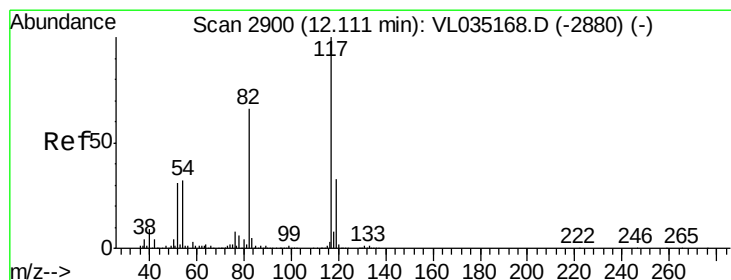
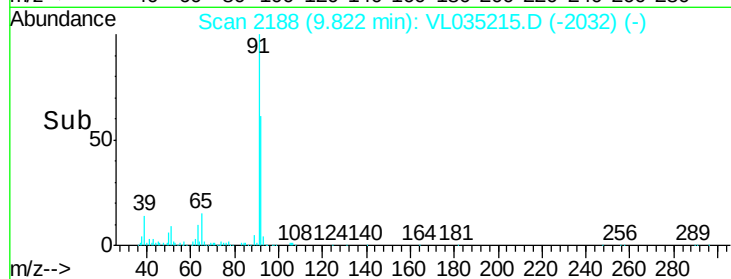
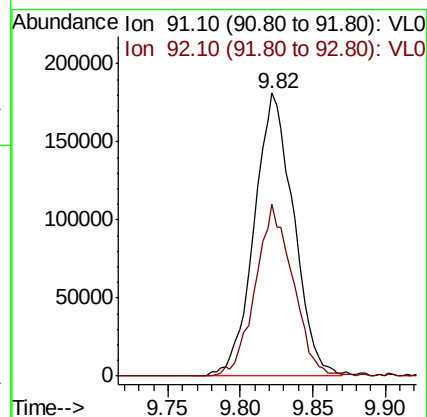
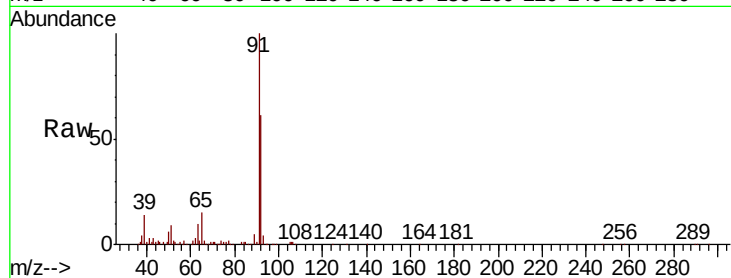
1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion: 91 Resp: 343461

Ion Ratio Lower Upper

91 100

92 58.2 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

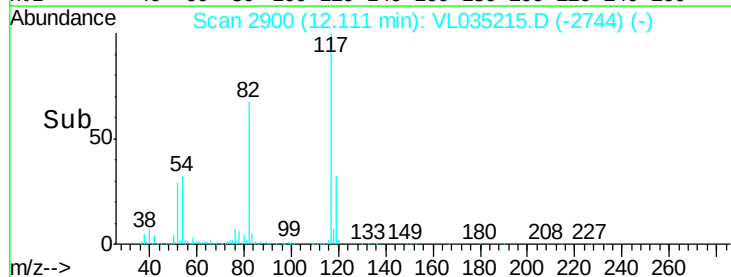
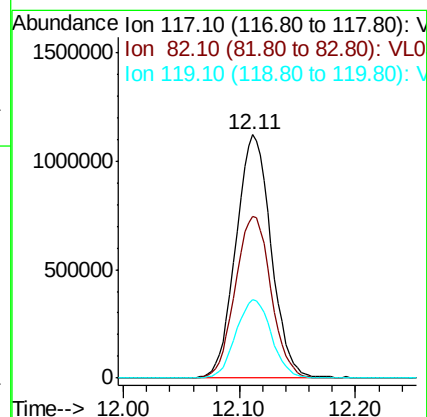
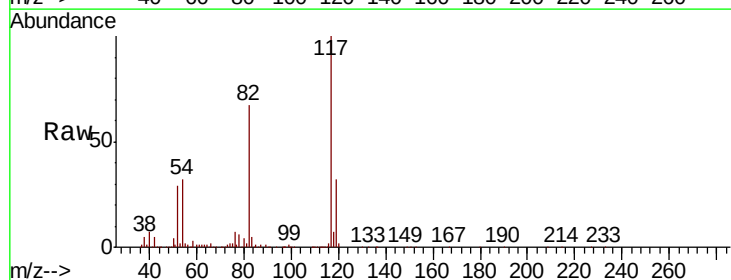
Tgt Ion: 117 Resp: 2356462

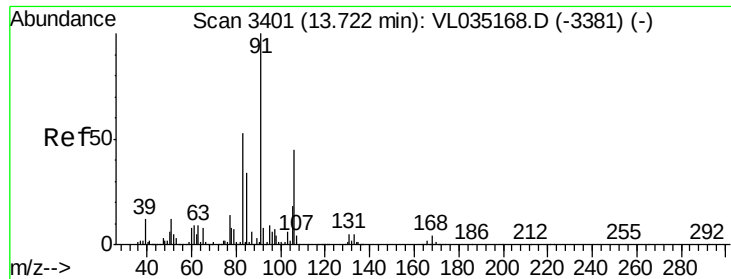
Ion Ratio Lower Upper

117 100

82 68.3 52.3 78.5

119 32.6 24.9 37.3

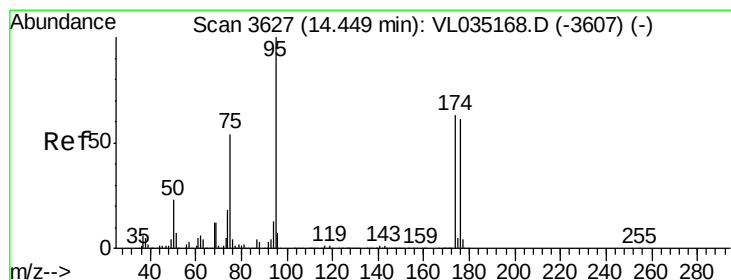
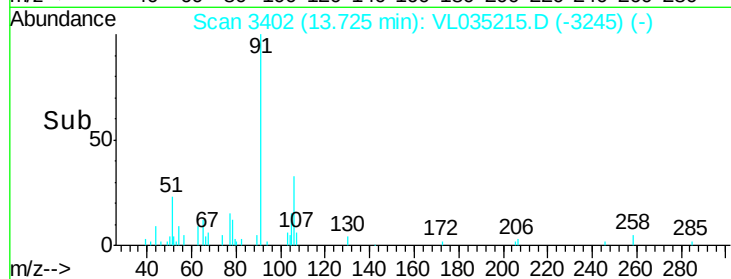
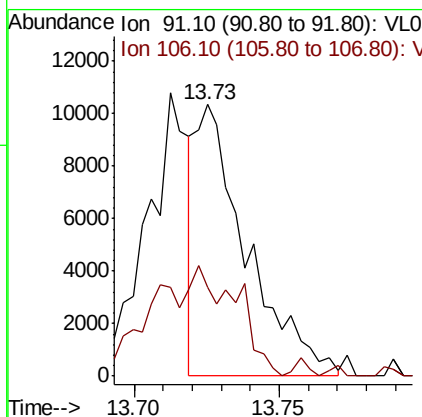
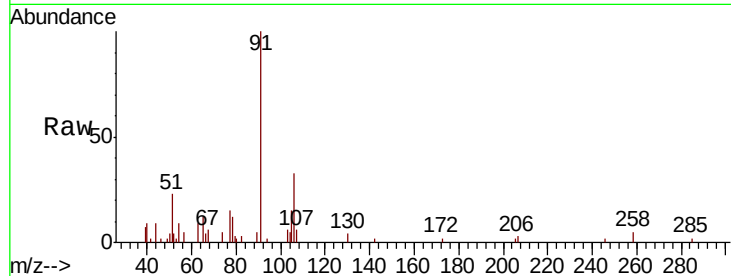




#60
o-Xylene
Concen: 0.054 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

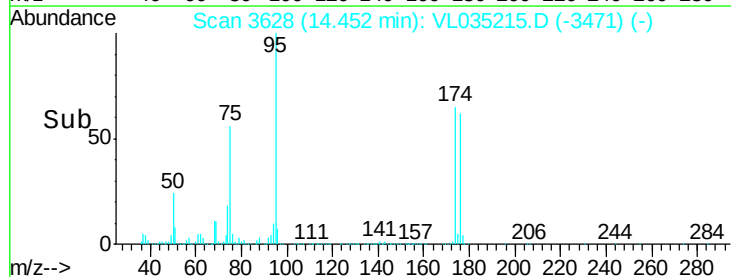
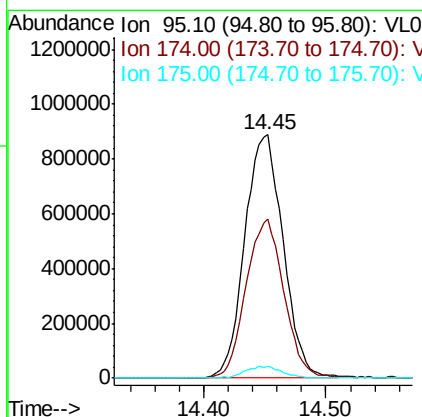
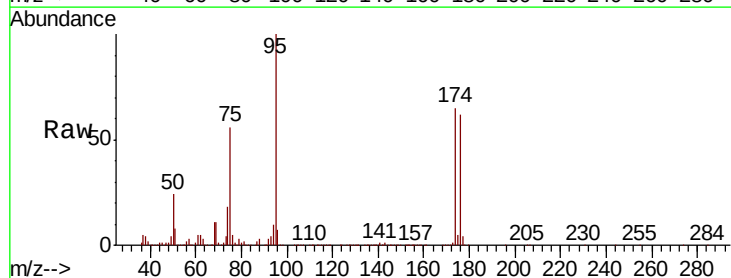
Instrument :
MSVOA_L
ClientSampleId :
1ST-FLOOR-EAST-CLASSROOMDU

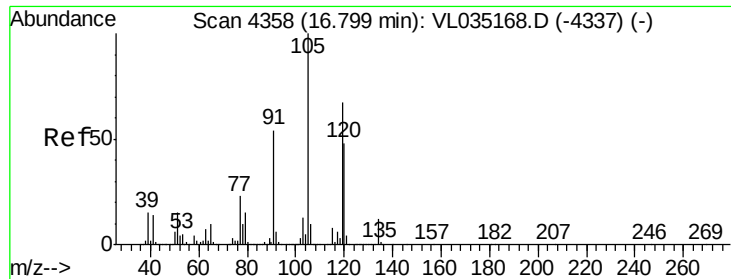
Tot Ion: 91 Resp: 12582
Ion Ratio Lower Upper
91 100
106 70.1 22.1 66.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.071 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. 0.00 min
Lab File: VL035215.D
Acq: 21 Jul 2020 17:19

Tgt Ion: 95 Resp: 1927862
Ion Ratio Lower Upper
95 100
174 64.8 52.2 78.2
175 4.8 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.196 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.00 min

Lab File: VL035215.D

Acq: 21 Jul 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOMDU

Tot Ion:105 Resp: 54482

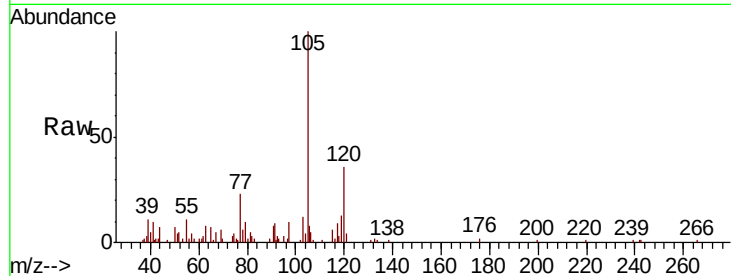
Ion Ratio Lower Upper

105 100

120 37.0 38.6 57.8#

91 17.2 43.6 65.4#

77 19.8 18.3 27.5



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

