

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072120\
 Data File : VL035214.D
 Acq On : 21 Jul 2020 16:38
 Operator : SY/AP
 Sample : L3290-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

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Quant Time: Jul 23 18:14:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

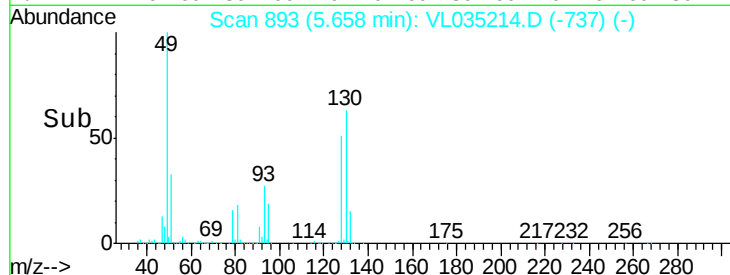
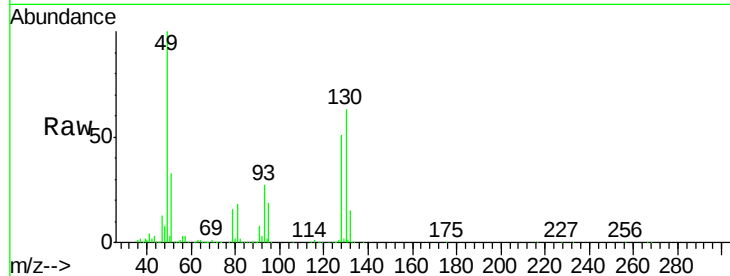
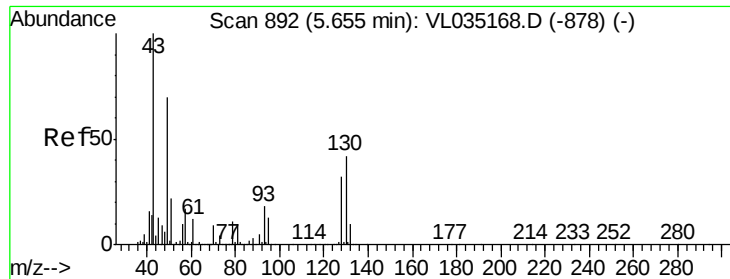
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1044797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2567457	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2382339	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1987056	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	39982	0.273	ppbv	90
3) Chlorodifluoromethane	2.95	51	45709m	0.396	ppbv	
4) Chloromethane	3.10	50	39623	0.609	ppbv	97
9) Propene	2.98	41	34779	0.797	ppbv #	79
10) Heptane	8.14	43	13803m	0.123	ppbv	
11) Trichlorofluoromethane	3.92	101	55192	0.334	ppbv	100
13) Ethanol	3.57	45	763499	54.984	ppbv	93
15) Acetone	3.82	43	987379m	6.980	ppbv	
17) tert-Butyl alcohol	4.27	59	24472m	0.196	ppbv	
19) Isopropyl Alcohol	3.94	45	650633	7.625	ppbv #	98
20) Methylene Chloride	4.32	84	249228	4.049	ppbv	96
26) Hexane	5.68	57	131496	1.359	ppbv #	47
27) Carbon Disulfide	4.53	76	29595	0.219	ppbv #	73
29) Chloroform	5.74	83	26512m	0.163	ppbv	
34) 2-Butanone	5.24	43	77232	0.564	ppbv	93
35) Carbon Tetrachloride	7.02	117	24957m	0.150	ppbv	
36) Benzene	6.89	78	39276m	0.211	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	54110m	0.169	ppbv	
52) Tetrachloroethene	11.26	164	16305m	0.235	ppbv	
53) Toluene	9.82	91	340894	1.738	ppbv	99
59) m/p-Xylene	12.99	91	60947m	0.260	ppbv	
60) o-Xylene	13.72	91	30126m	0.129	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	69926m	0.249	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

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Tgt Ion:	49	Resp:	1044797
Ion	Ratio	Lower	Upper
49	100		
128	49.2	23.8	71.4
130	63.2	29.9	89.8

Instrument :

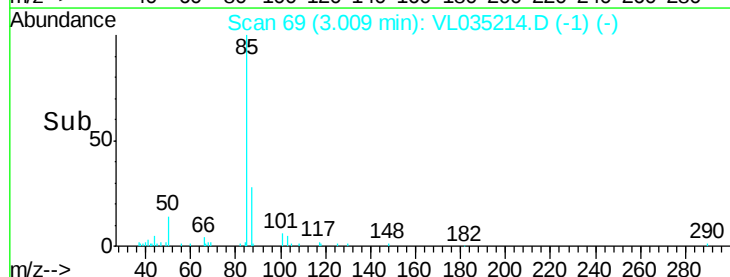
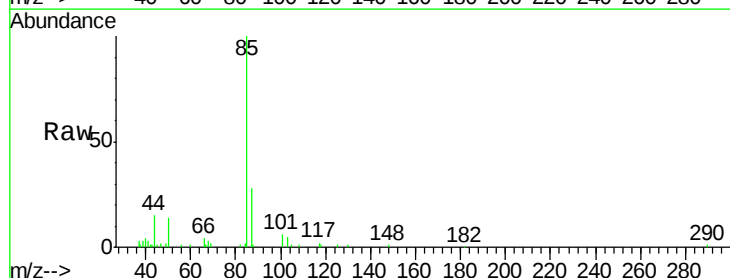
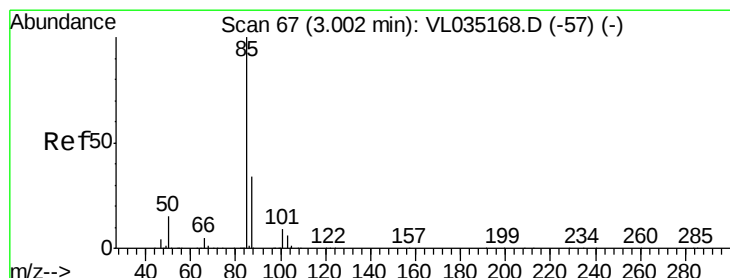
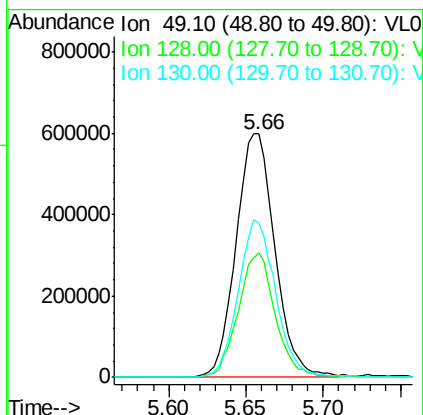
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#2

Dichlorodifluoromethane

Concen: 0.273 ppbv

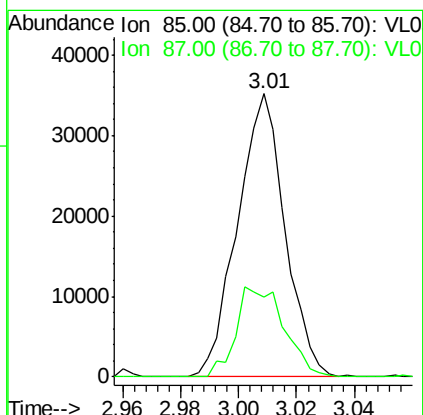
RT: 3.01 min Scan# 69

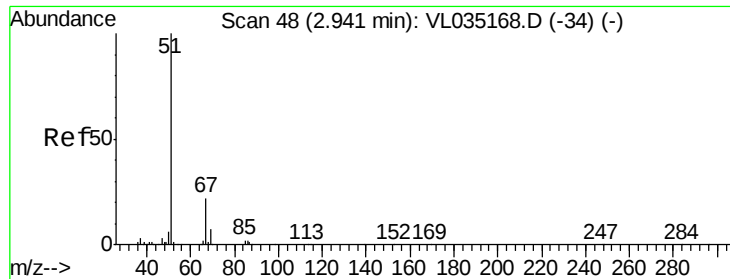
Delta R.T. 0.01 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

Tgt Ion:	85	Resp:	39982
Ion	Ratio	Lower	Upper
85	100		
87	28.2	27.0	40.6





#3

Chlorodifluoromethane

Concen: 0.396 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.01 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOM

Tgt Ion: 51 Resp: 45709

Ion Ratio Lower Upper

51 100

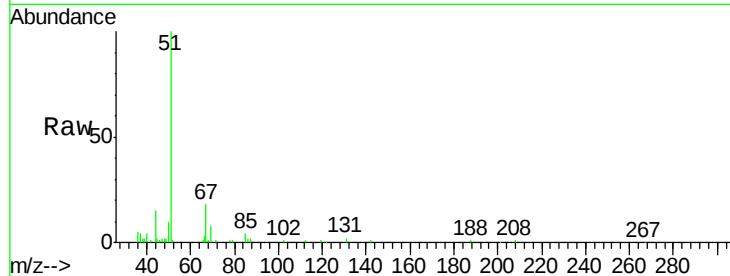
67 21.1 16.6 24.8

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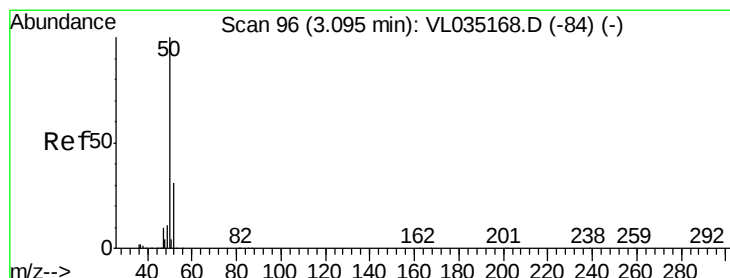
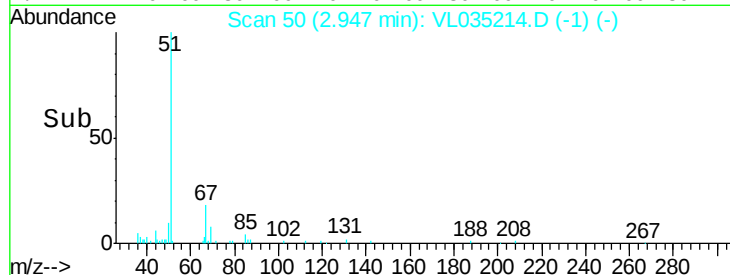
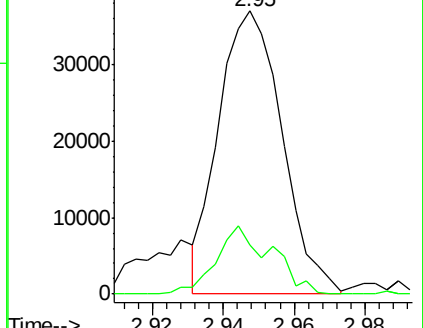
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.609 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.01 min

Lab File: VL035214.D

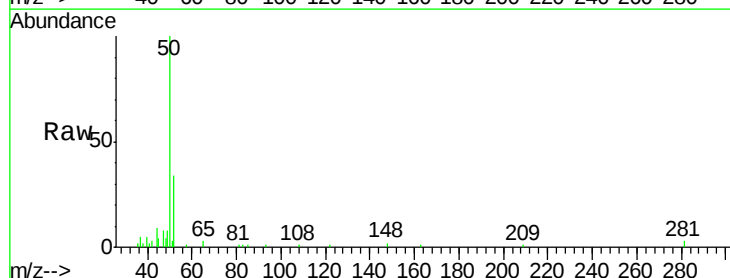
Acq: 21 Jul 2020 16:38

Tgt Ion: 50 Resp: 39623

Ion Ratio Lower Upper

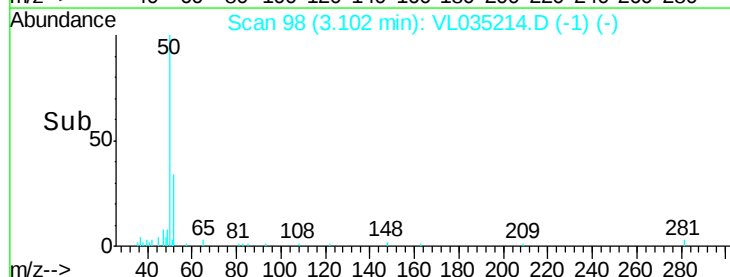
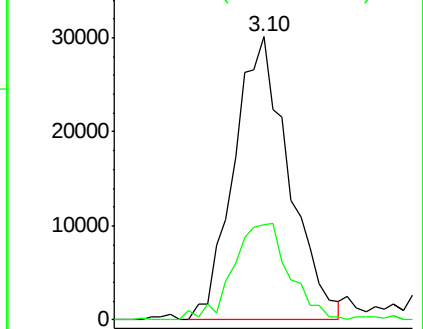
50 100

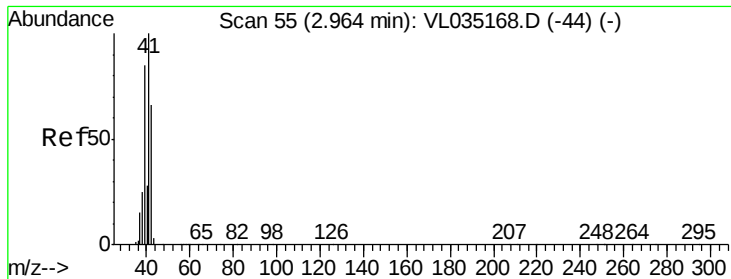
52 32.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





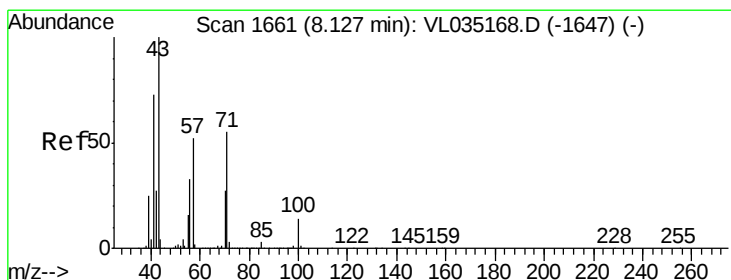
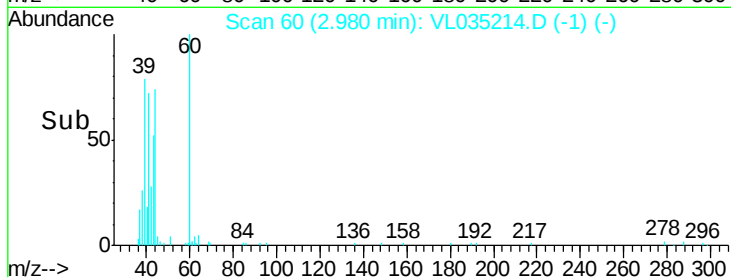
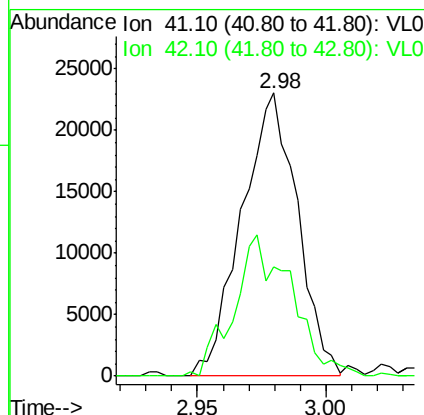
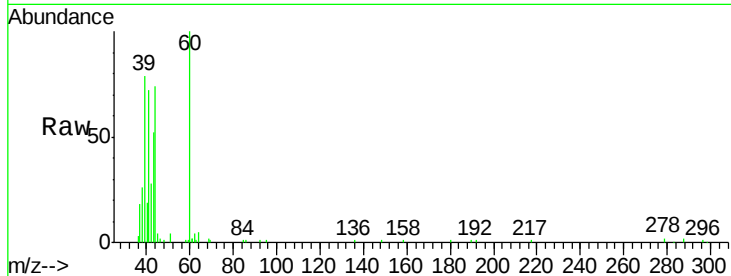
#9
 Propene
 Concen: 0.797 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.02 min
 Lab File: VL035214.D
 Acq: 21 Jul 2020 16:38

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 41 Resp: 34779
 Ion Ratio Lower Upper
 41 100
 42 51.6 54.6 81.8#

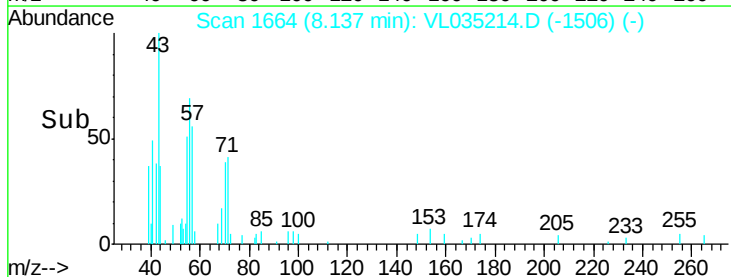
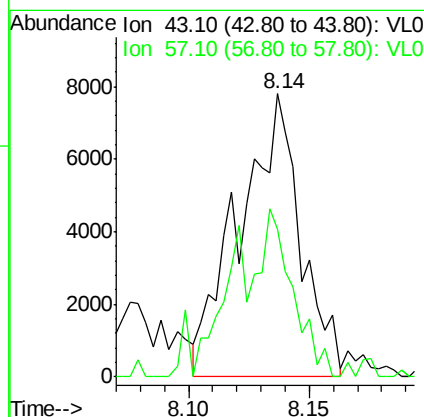
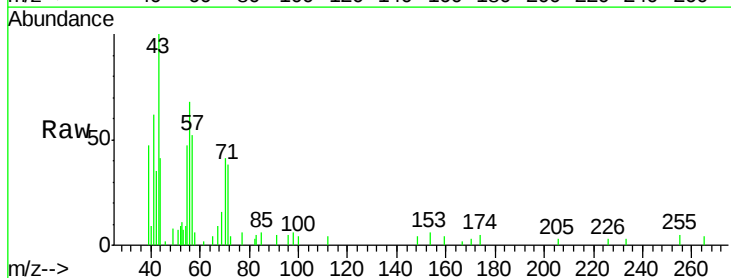
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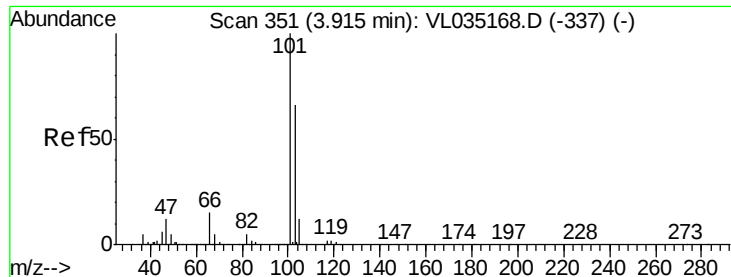
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#10
 Heptane
 Concen: 0.123 ppbv m
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VL035214.D
 Acq: 21 Jul 2020 16:38

Tgt Ion: 43 Resp: 13803
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.8 62.6#





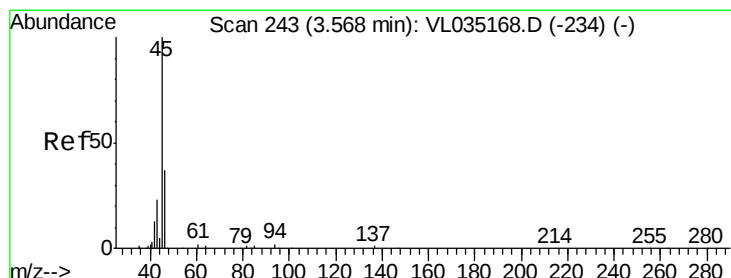
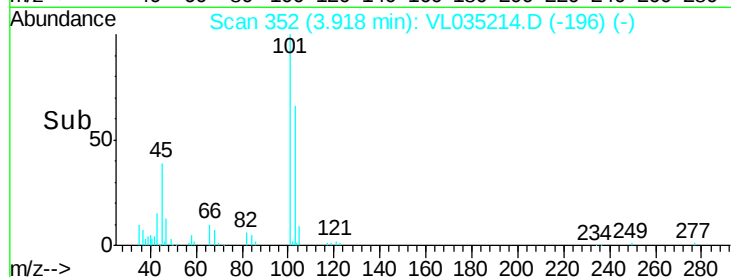
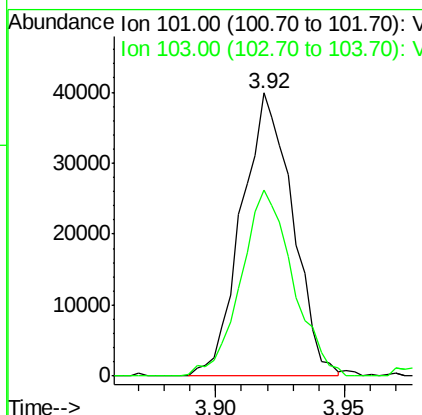
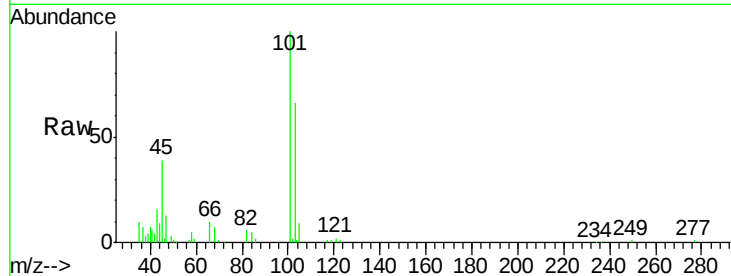
#11
 Trichlorofluoromethane
 Concen: 0.334 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL035214.D
 Acq: 21 Jul 2020 16:38

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 101 Resp: 55192
 Ion Ratio Lower Upper
 101 100
 103 66.3 53.1 79.7

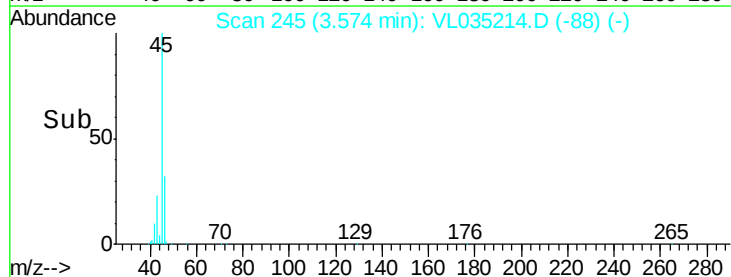
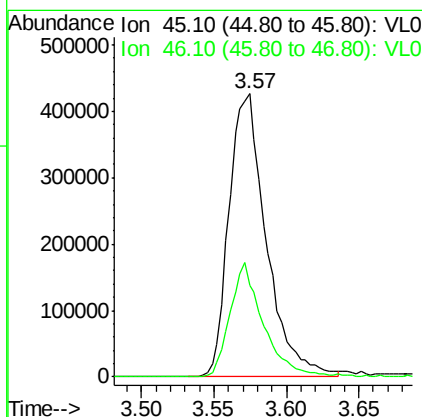
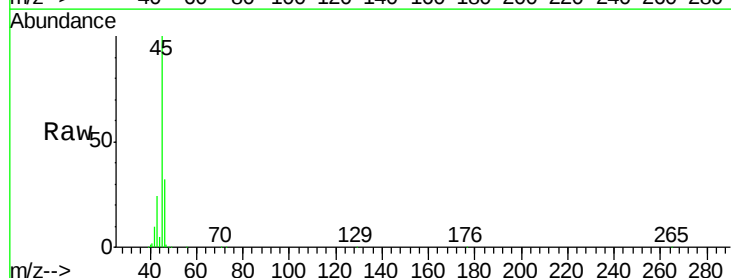
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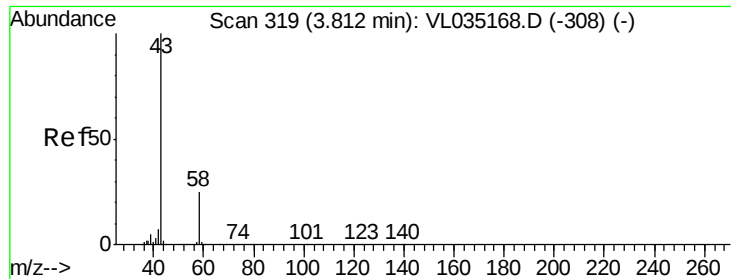
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#13
 Ethanol
 Concen: 54.984 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. 0.01 min
 Lab File: VL035214.D
 Acq: 21 Jul 2020 16:38

Tgt Ion: 45 Resp: 763499
 Ion Ratio Lower Upper
 45 100
 46 36.4 16.2 65.0





#15

Acetone

Concen: 6.980 ppbv m

RT: 3.82 min Scan# 321

Delta R.T. 0.01 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOM

Tgt Ion: 43 Resp: 987379

Ion Ratio Lower Upper

43 100

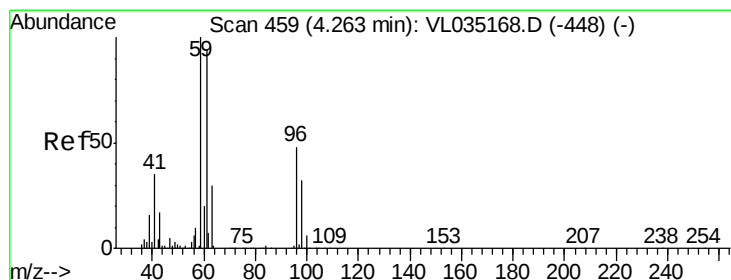
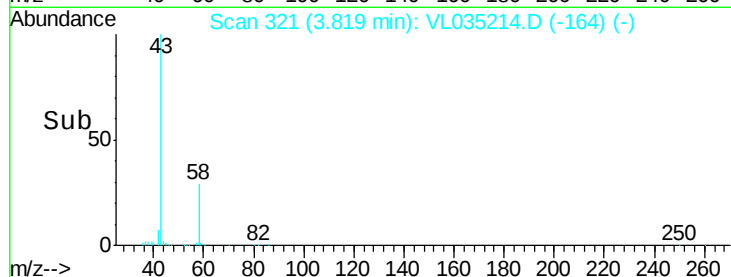
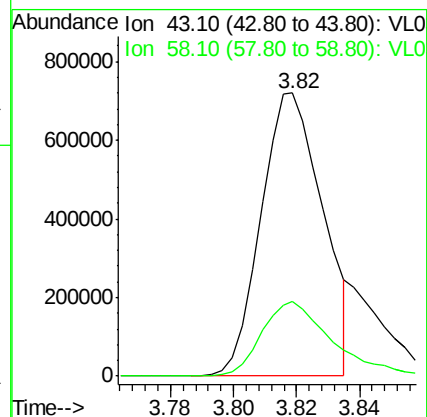
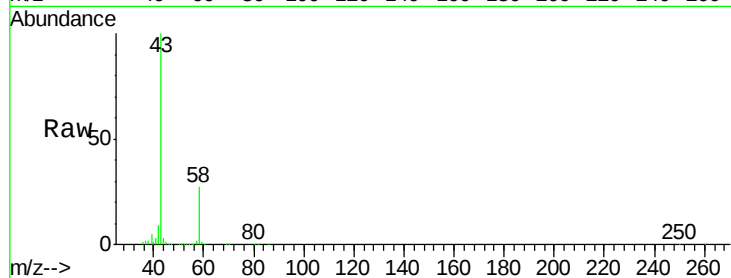
58 30.2 21.3 31.9

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#17

tert-Butyl alcohol

Concen: 0.196 ppbv m

RT: 4.27 min Scan# 461

Delta R.T. 0.01 min

Lab File: VL035214.D

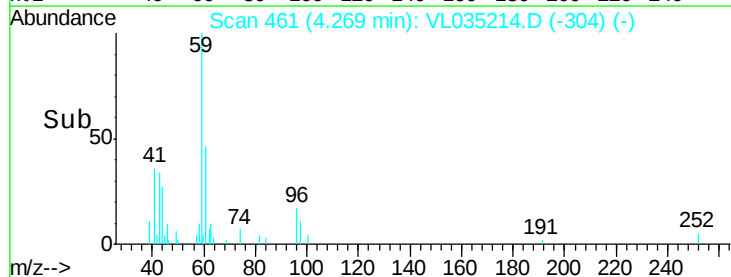
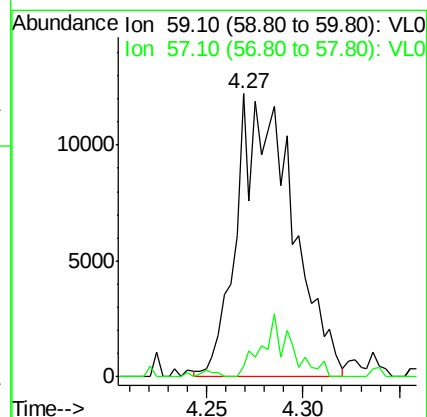
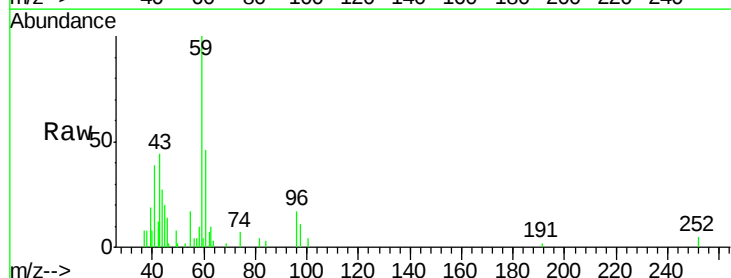
Acq: 21 Jul 2020 16:38

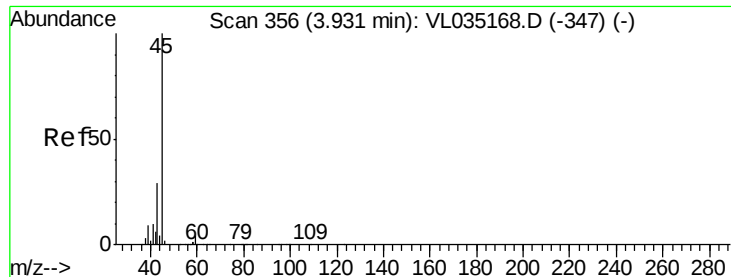
Tgt Ion: 59 Resp: 24472

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





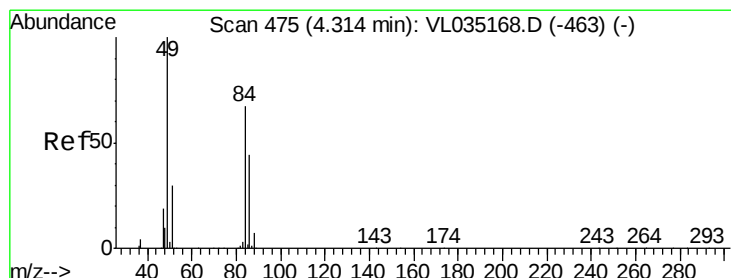
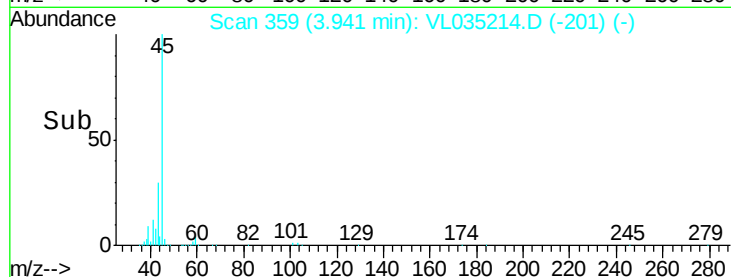
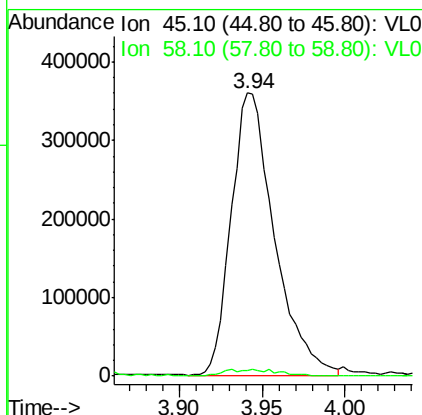
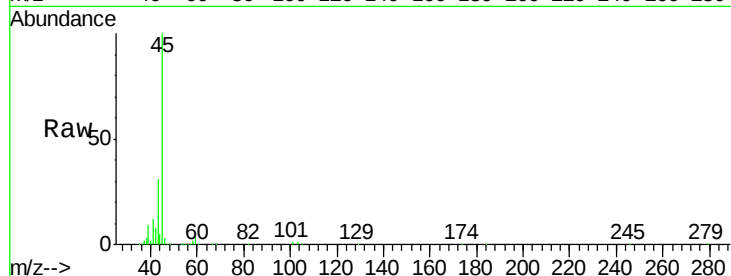
#19
Isopropyl Alcohol
Concen: 7.625 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.01 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

Instrument :
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ClientSampleId :
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Tgt Ion: 45 Resp: 650633
Ion Ratio Lower Upper
45 100
58 3.3 2.1 3.1#

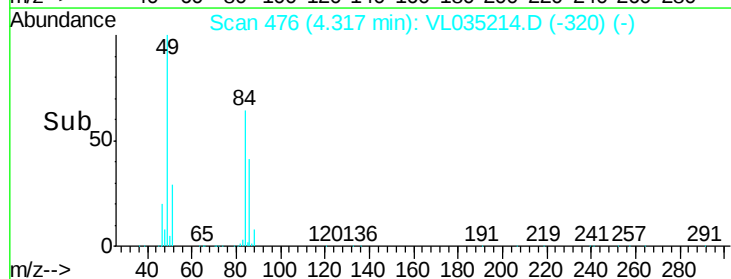
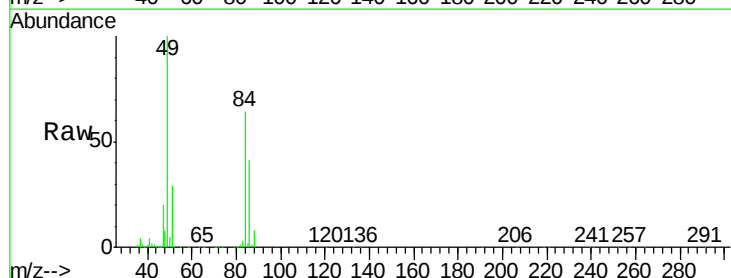
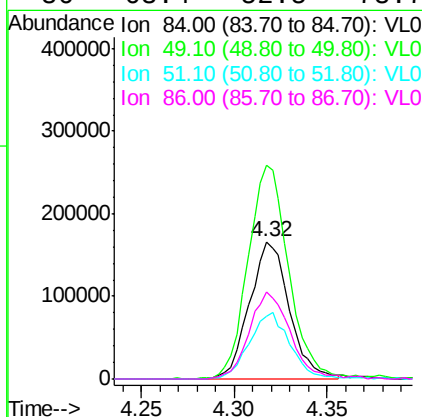
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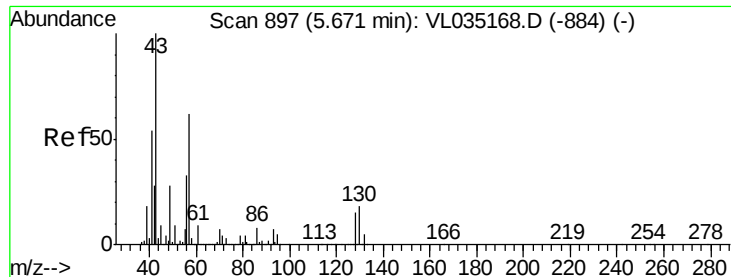
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#20
Methylene Chloride
Concen: 4.049 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035214.D
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Tgt Ion: 84 Resp: 249228
Ion Ratio Lower Upper
84 100
49 155.5 119.4 179.0
51 45.2 36.6 55.0
86 63.4 52.5 78.7





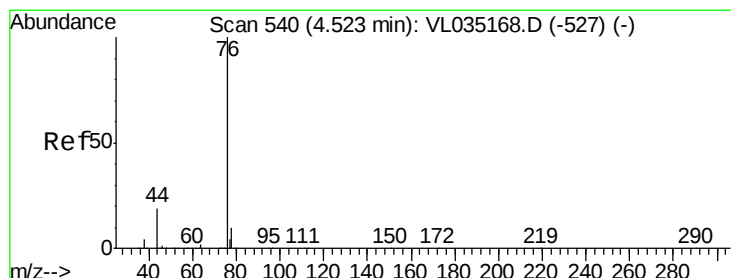
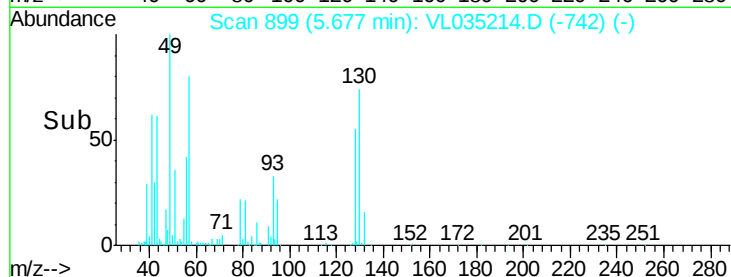
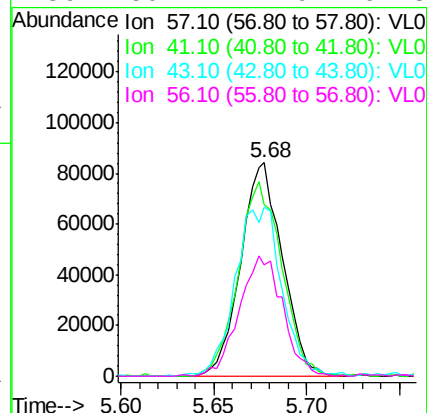
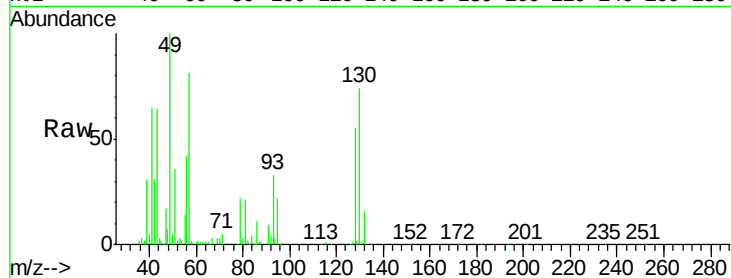
#26
Hexane
Concen: 1.359 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

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

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.8	72.9	109.3
43	89.4	179.5	269.3#
56	59.1	42.9	64.3

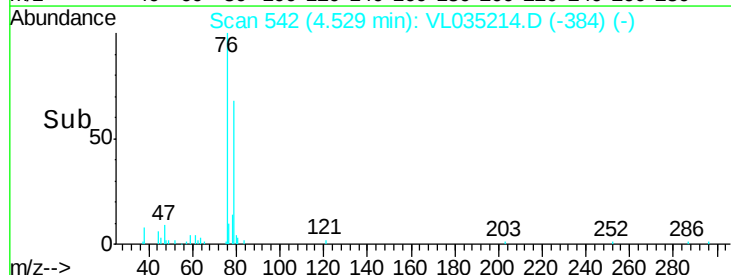
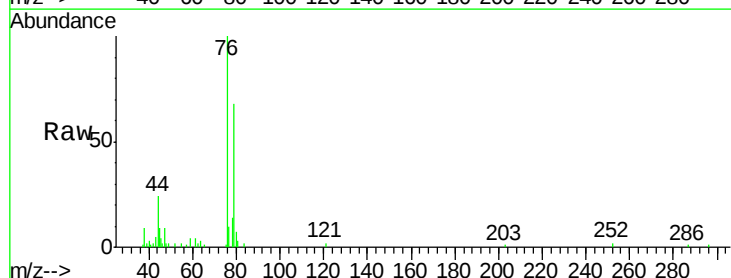
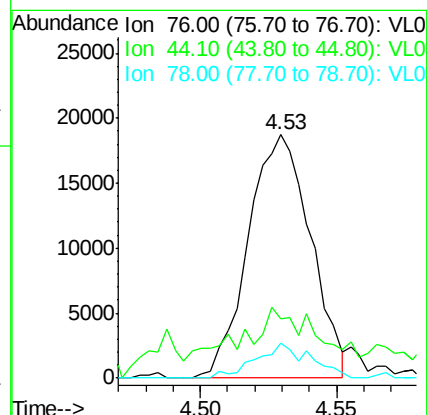
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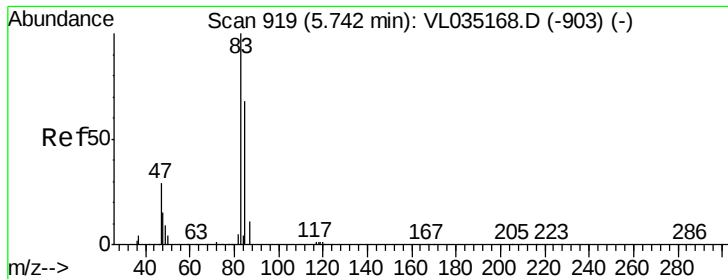
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#27
Carbon Disulfide
Concen: 0.219 ppbv
RT: 4.53 min Scan# 542
Delta R.T. 0.01 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

Tgt Ion	Ratio	Lower	Upper
76	100		
44	34.3	14.9	22.3#
78	12.8	7.5	11.3#





#29

Chloroform

Concen: 0.163 ppbv m

RT: 5.74 min Scan# 919

Delta R.T. -0.00 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOM

Tgt Ion: 83 Resp: 26512

Ion Ratio Lower Upper

83 100

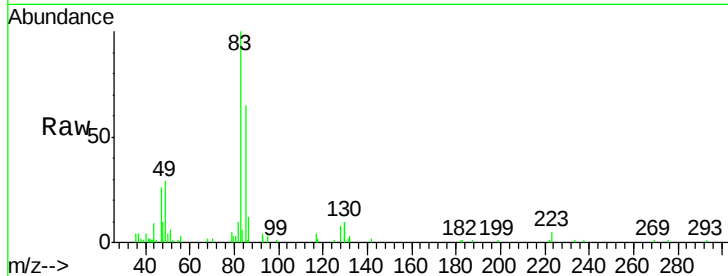
85 65.4 54.3 81.5

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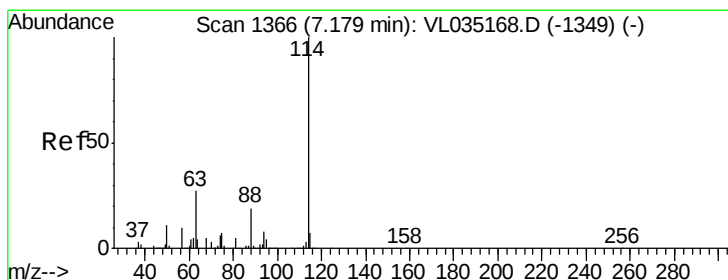
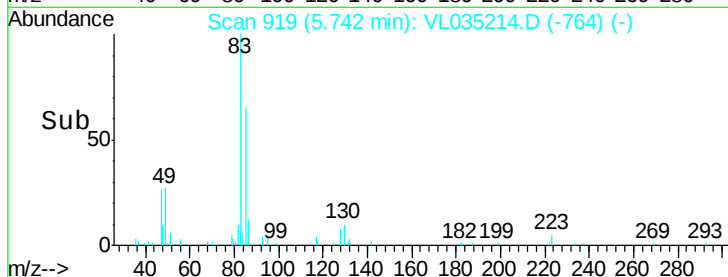
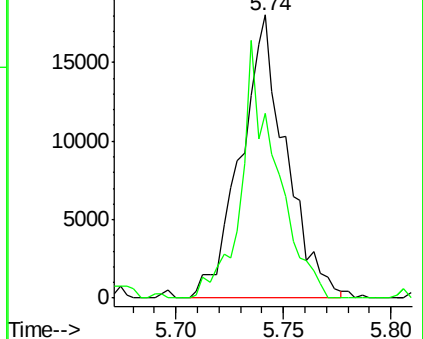
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

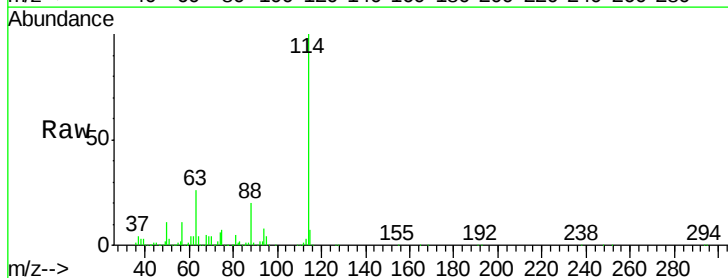
Tgt Ion: 114 Resp: 2567457

Ion Ratio Lower Upper

114 100

63 27.1 22.0 33.0

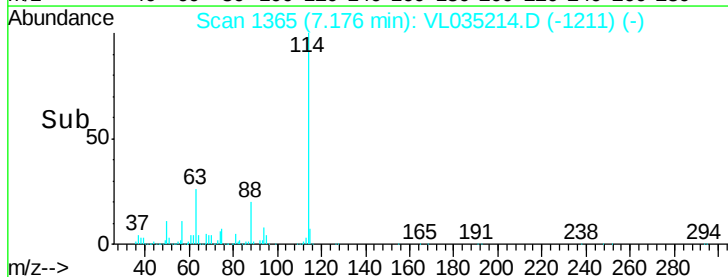
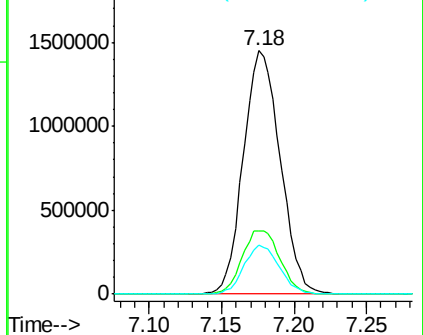
88 19.4 15.4 23.0

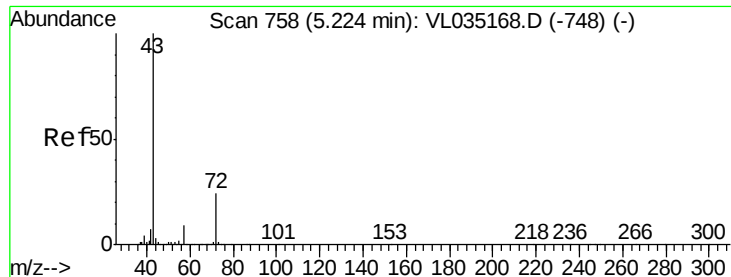


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.564 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.01 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOM

Tgt Ion: 43 Resp: 77232

Ion Ratio Lower Upper

43 100

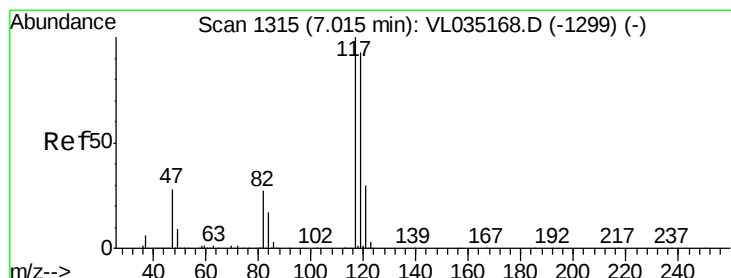
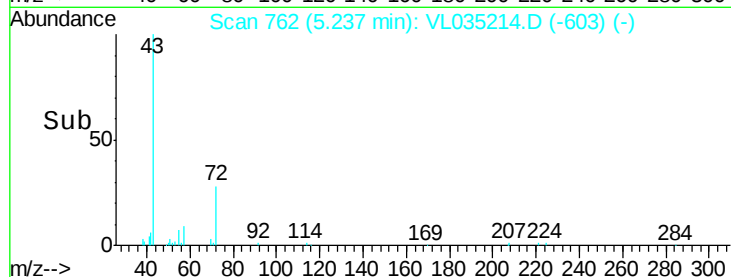
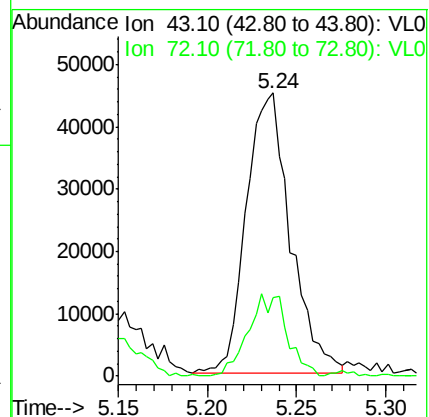
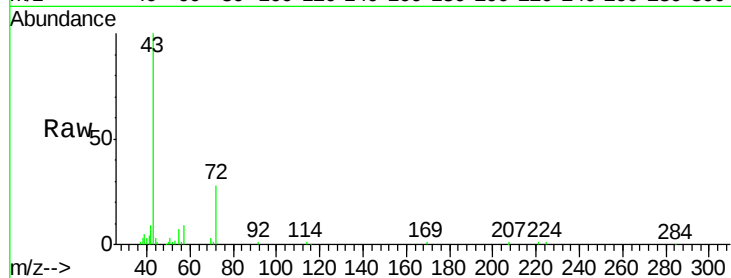
72 26.9 18.6 28.0

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.150 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VL035214.D

Acq: 21 Jul 2020 16:38

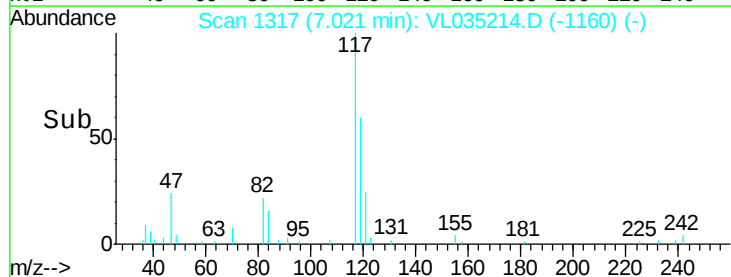
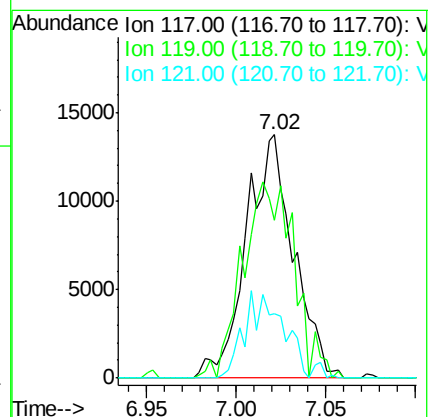
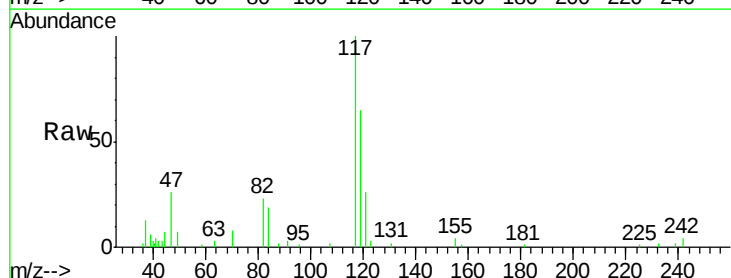
Tgt Ion: 117 Resp: 24957

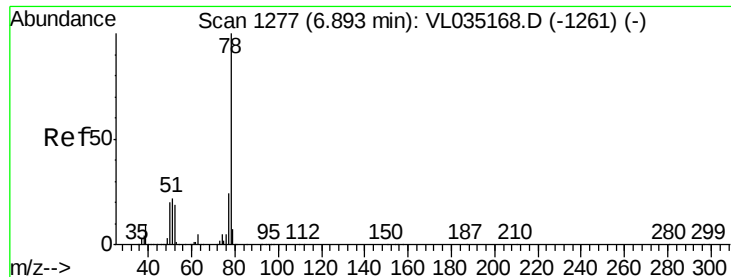
Ion Ratio Lower Upper

117 100

119 65.1 74.8 112.2#

121 26.3 24.2 36.2





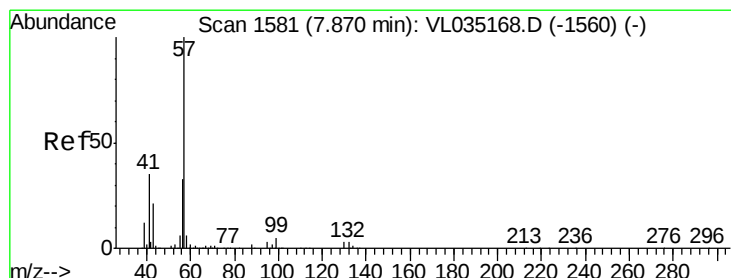
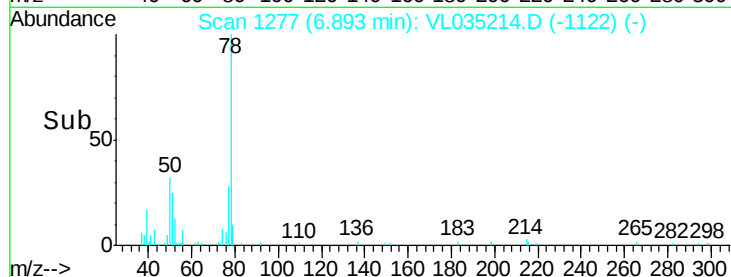
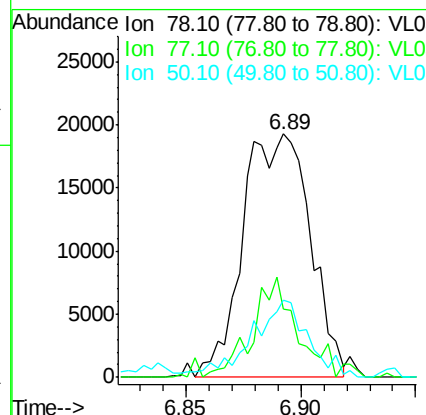
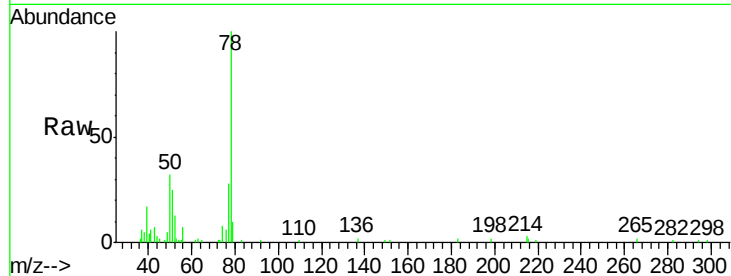
#36
Benzene
Concen: 0.211 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

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

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.0	19.3	28.9
50	31.8	16.0	24.0#

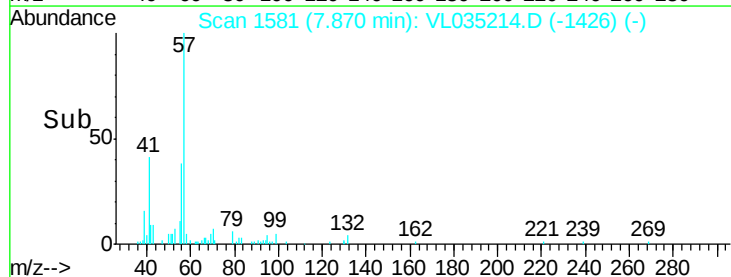
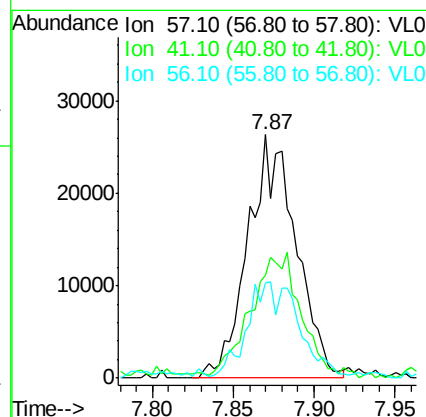
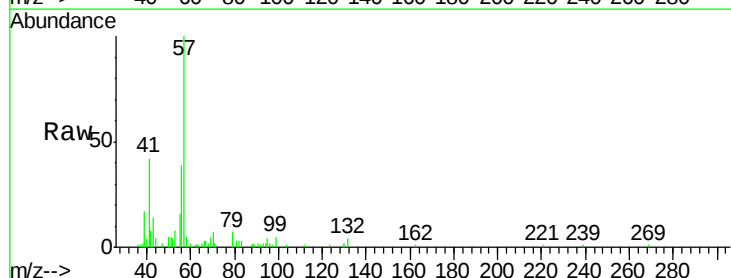
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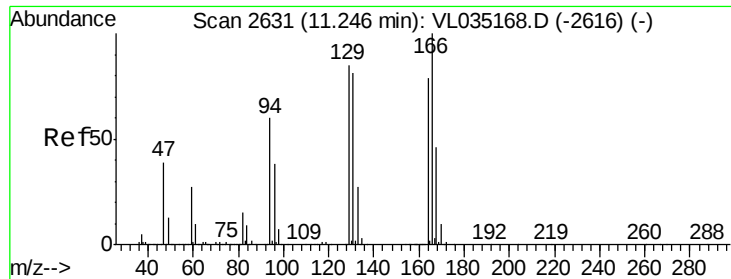
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#44
2,2,4-Trimethylpentane
Concen: 0.169 ppbv m
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.6#
56	48.3	25.5	38.3#





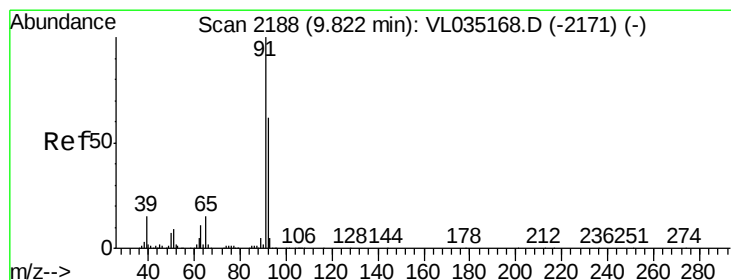
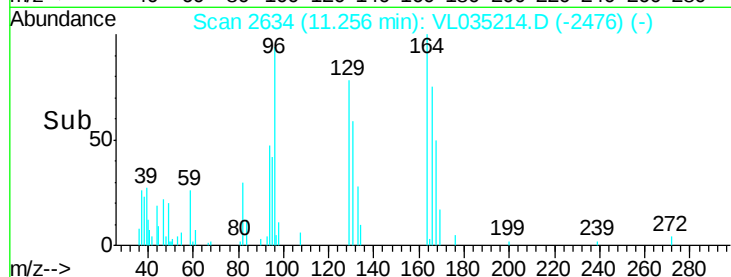
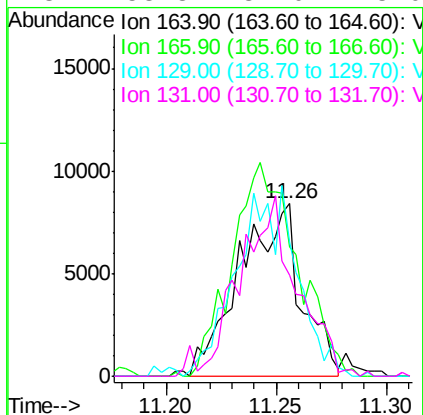
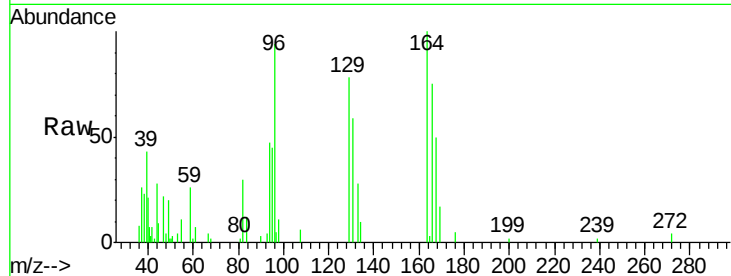
#52
Tetrachloroethene
Concen: 0.235 ppbv m
RT: 11.26 min Scan# 2634
Delta R.T. 0.01 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

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

Tgt Ion	Ratio	Lower	Upper
164	100		
166	75.2	100.7	151.1#
129	77.9	85.8	128.6#
131	58.8	82.0	123.0#

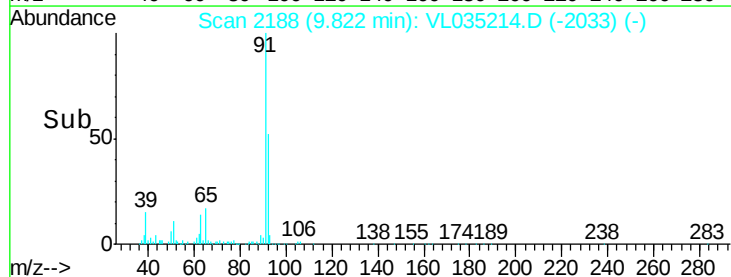
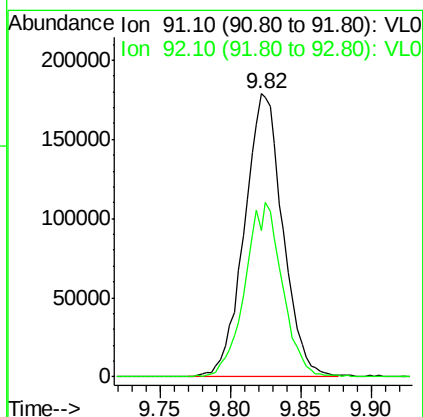
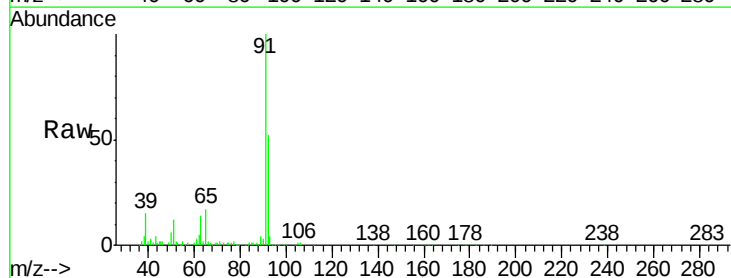
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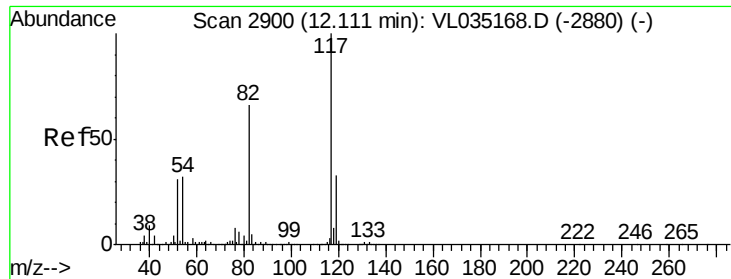
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#53
Toluene
Concen: 1.738 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. -0.00 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	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: VL035214.D

Acq: 21 Jul 2020 16:38

Instrument :

MSVOA_L

ClientSampleId :

1ST-FLOOR-EAST-CLASSROOM

Tgt Ion: 117 Resp: 2382339

Ion Ratio Lower Upper

117 100

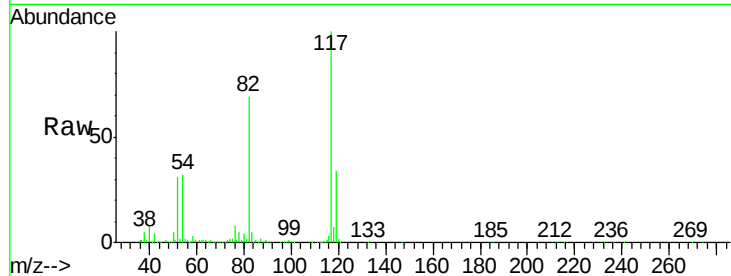
82 69.3 52.3 78.5

119 33.3 24.9 37.3

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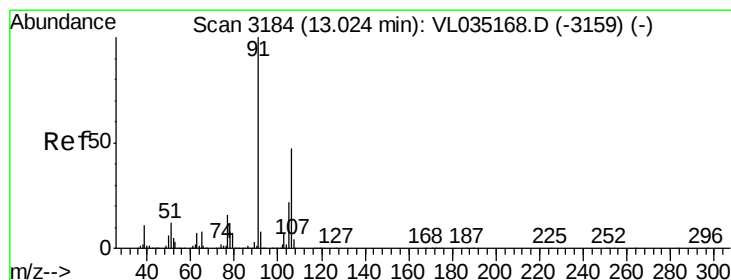
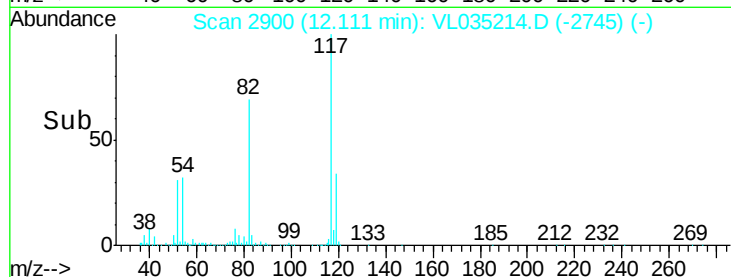
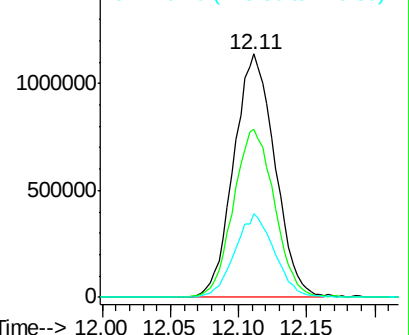
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.260 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. -0.04 min

Lab File: VL035214.D

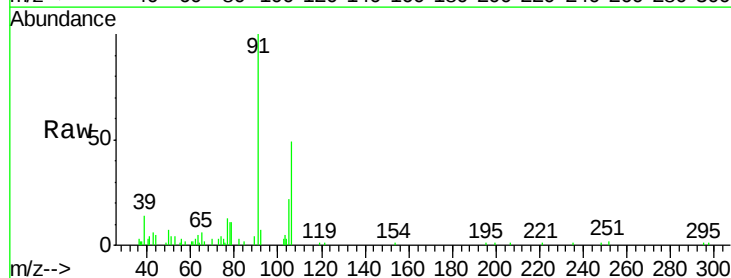
Acq: 21 Jul 2020 16:38

Tgt Ion: 91 Resp: 60947

Ion Ratio Lower Upper

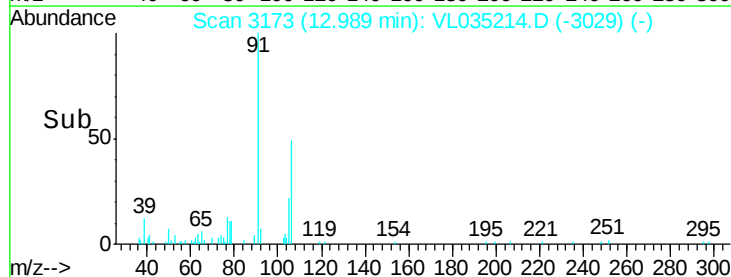
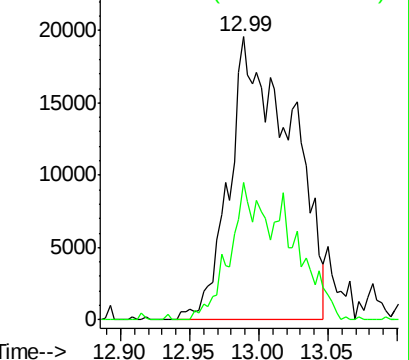
91 100

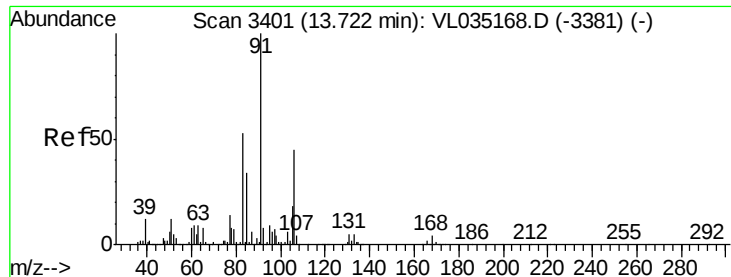
106 0.0 36.2 54.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





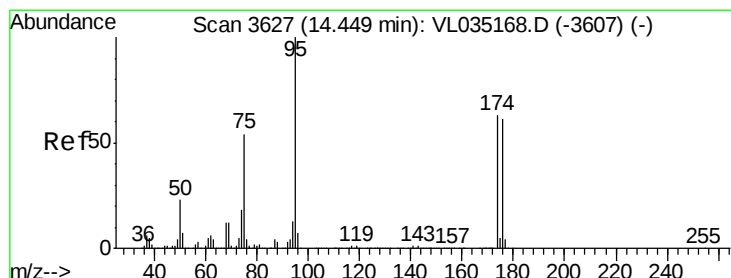
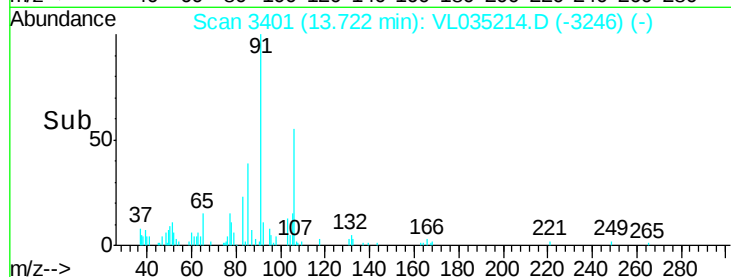
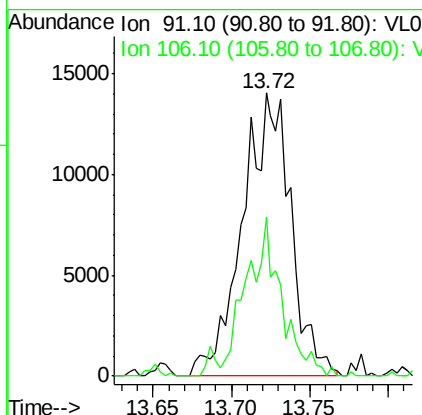
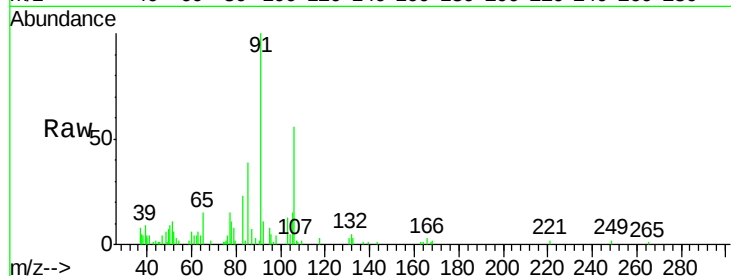
#60
o-Xylene
Concen: 0.129 ppbv m
RT: 13.72 min Scan# 3401
Delta R.T. -0.00 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

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

Tgt Ion: 91 Resp: 30126
Ion Ratio Lower Upper
91 100
106 43.0 22.1 66.3

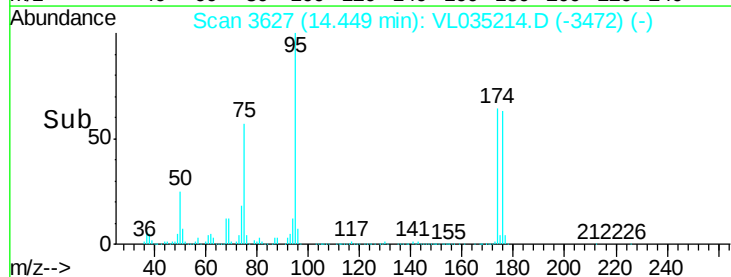
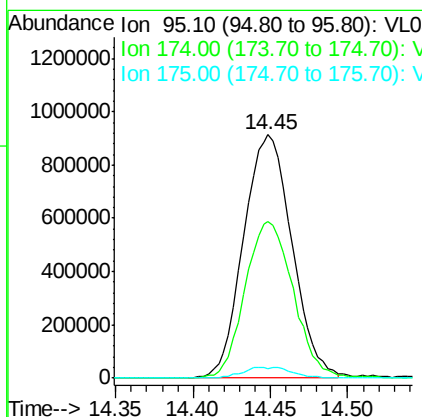
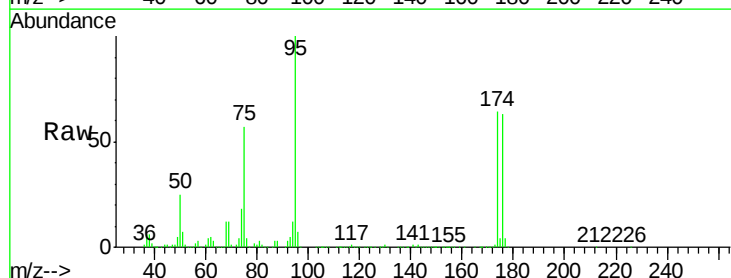
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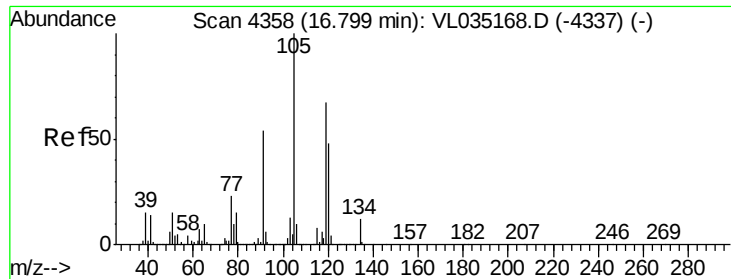
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.267 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.00 min
Lab File: VL035214.D
Acq: 21 Jul 2020 16:38

Tgt Ion: 95 Resp: 1987056
Ion Ratio Lower Upper
95 100
174 64.5 52.2 78.2
175 4.6 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.249 ppbv m
 RT: 16.80 min Scan# 4357
 Delta R.T. -0.00 min
 Lab File: VL035214.D
 Acq: 21 Jul 2020 16:38

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

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	37.2	38.6	57.8#
91	23.6	43.6	65.4#
77	16.9	18.3	27.5#

Manual Integrations
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