

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035217.D
 Acq On : 21 Jul 2020 18:39
 Operator : SY/AP
 Sample : L3290-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-CAFETERIA

Manual Integrations
 APPROVED

MMDadoda
 7/23/2020 2:59:35 PM

Quant Time: Jul 22 01:41:48 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
 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	1042874	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2543015	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2355503	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1977757	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	34206	0.234 ppbv	92
3) Chlorodifluoromethane	2.94	51	177790m	1.543 ppbv	
4) Chloromethane	3.10	50	40146	0.618 ppbv	98
9) Propene	2.98	41	51777	1.189 ppbv #	74
10) Heptane	8.13	43	32868	0.294 ppbv	87
11) Trichlorofluoromethane	3.92	101	46803	0.284 ppbv	93
13) Ethanol	3.57	45	701592	50.619 ppbv	93
15) Acetone	3.82	43	1039020m	7.359 ppbv	
17) tert-Butyl alcohol	4.29	59	29281	0.234 ppbv #	72
19) Isopropyl Alcohol	3.94	45	290342	3.409 ppbv #	94
20) Methylene Chloride	4.31	84	63050m	1.026 ppbv	
26) Hexane	5.67	57	142604m	1.476 ppbv	
27) Carbon Disulfide	4.53	76	15305	0.113 ppbv #	81
29) Chloroform	5.74	83	130608	0.806 ppbv	86
34) 2-Butanone	5.23	43	100433	0.740 ppbv	99
35) Carbon Tetrachloride	7.02	117	13737m	0.083 ppbv	
36) Benzene	6.89	78	35215	0.191 ppbv #	94
42) Bromodichloromethane	7.80	83	24691	0.150 ppbv #	86
44) 2,2,4-Trimethylpentane	7.88	57	43153	0.136 ppbv #	69
50) 4-Methyl-2-Pentanone	8.76	43	33821m	0.174 ppbv	
52) Tetrachloroethene	11.24	164	8349m	0.121 ppbv	
53) Toluene	9.82	91	578954	2.981 ppbv	99
59) m/p-Xylene	12.98	91	56137m	0.242 ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	55883m	0.201 ppbv	

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

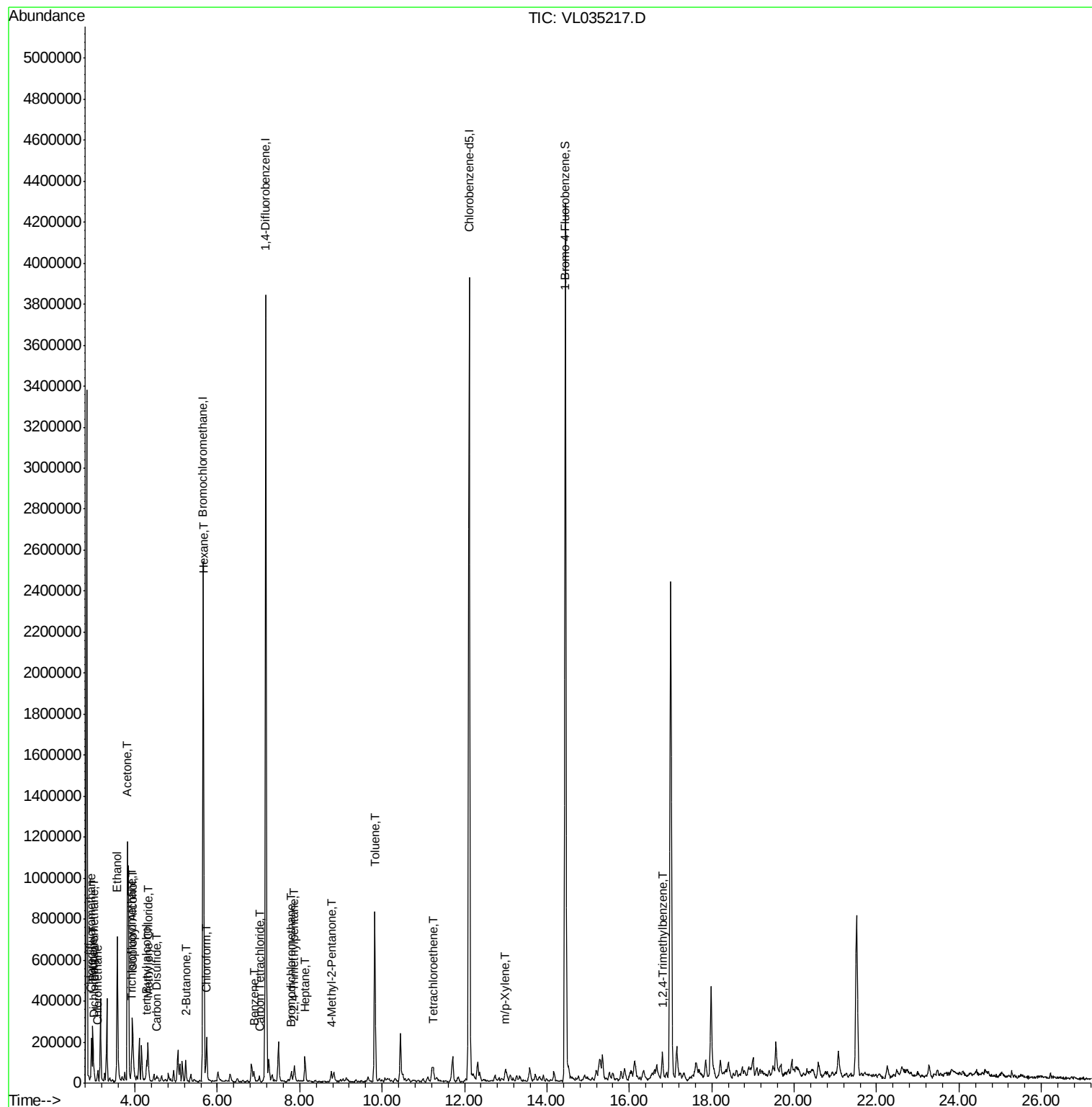
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072120\
Data File : VL035217.D
Acq On : 21 Jul 2020 18:39
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

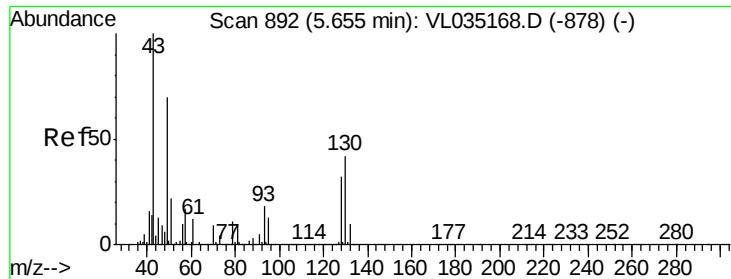
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Quant Time: Jul 22 01:41:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration

Manual Integrations
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion: 49 Resp: 1042874

Ion Ratio Lower Upper

49 100

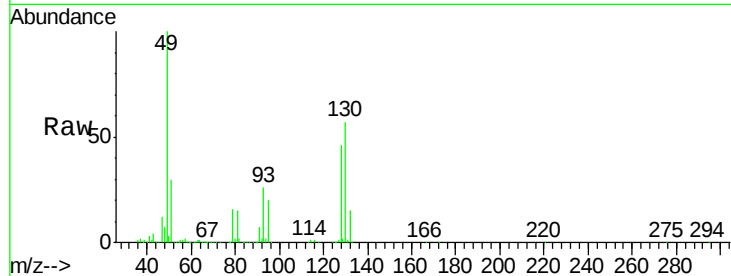
128 48.4 23.8 71.4

130 61.7 29.9 89.8

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

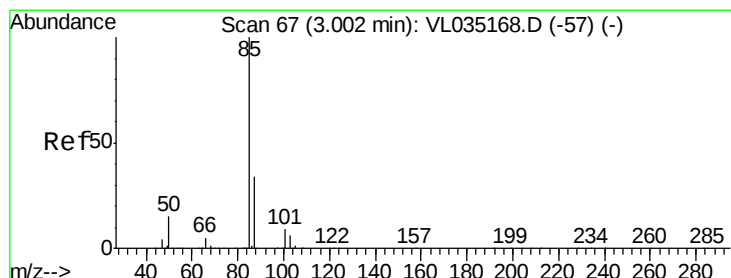
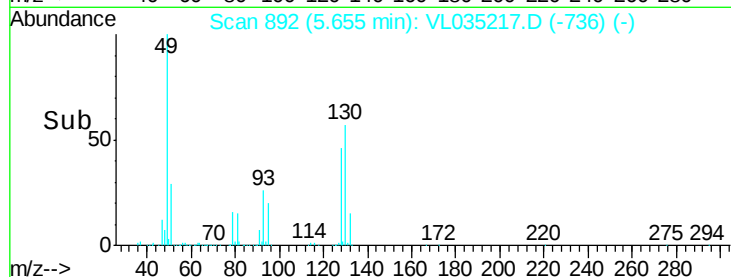
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035217.D

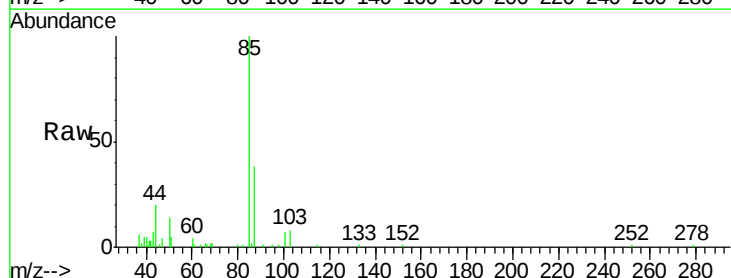
Acq: 21 Jul 2020 18:39

Tgt Ion: 85 Resp: 34206

Ion Ratio Lower Upper

85 100

87 38.2 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

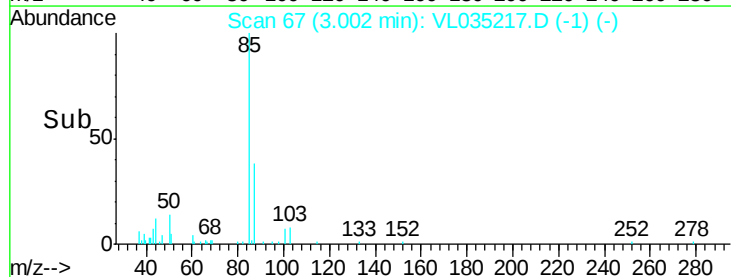
20000

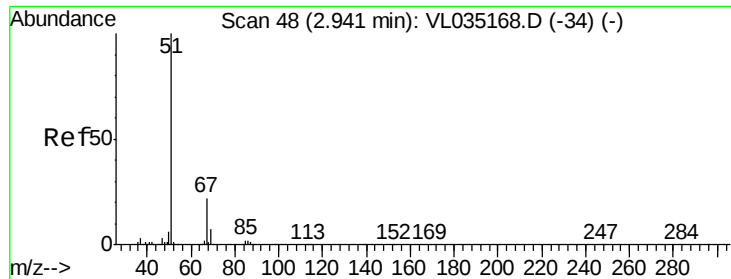
10000

0

2.96 2.98 3.00 3.02 3.04

Time-->





#3

Chlorodifluoromethane

Concen: 1.543 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion: 51 Resp: 177790

Ion Ratio Lower Upper

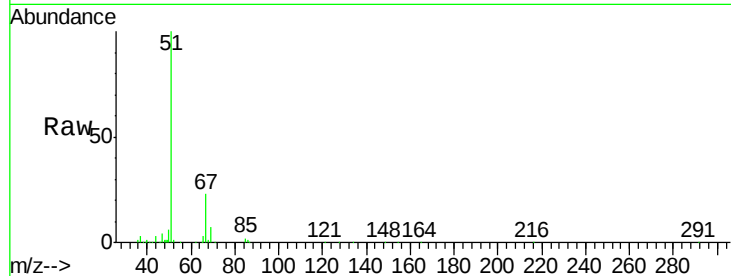
51 100

67 21.3 16.6 24.8

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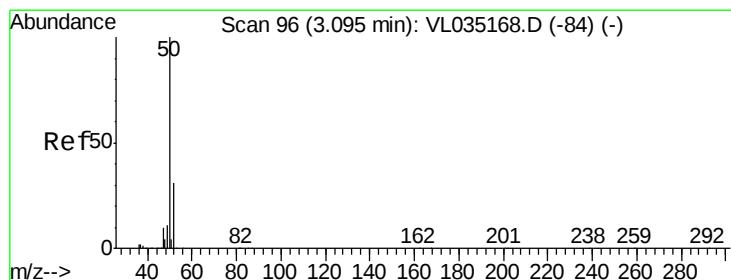
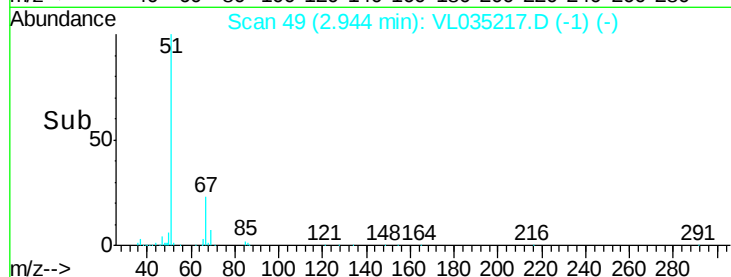
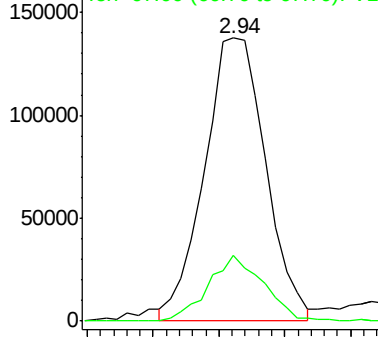
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.618 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.01 min

Lab File: VL035217.D

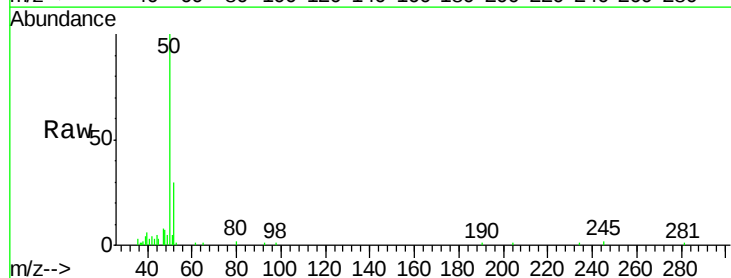
Acq: 21 Jul 2020 18:39

Tgt Ion: 50 Resp: 40146

Ion Ratio Lower Upper

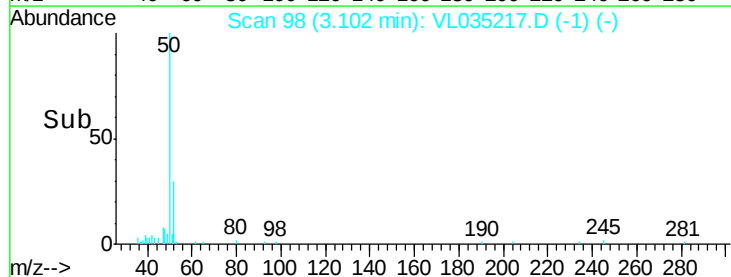
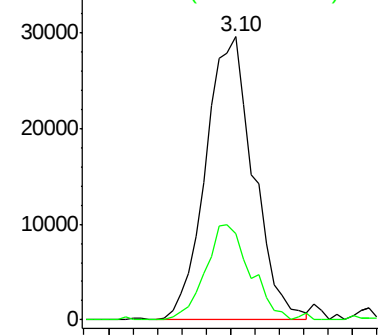
50 100

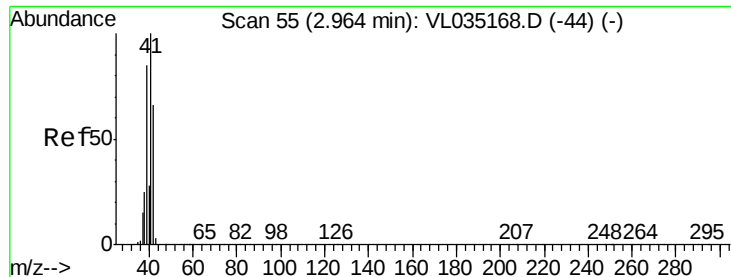
52 30.4 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





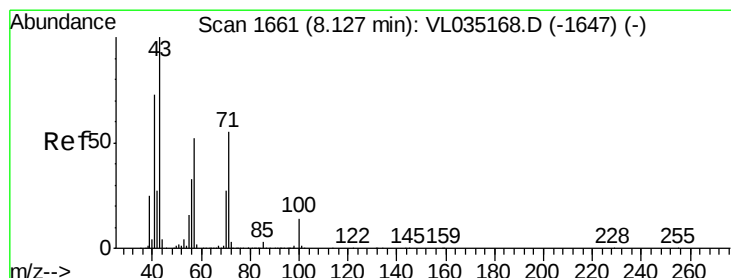
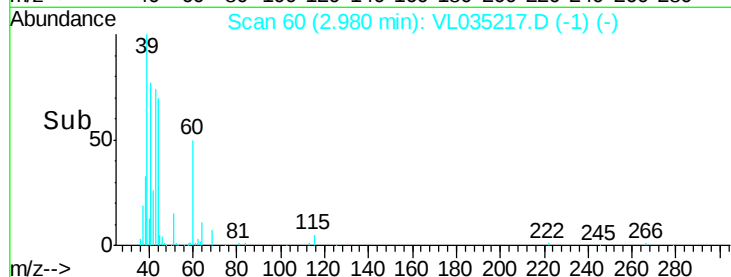
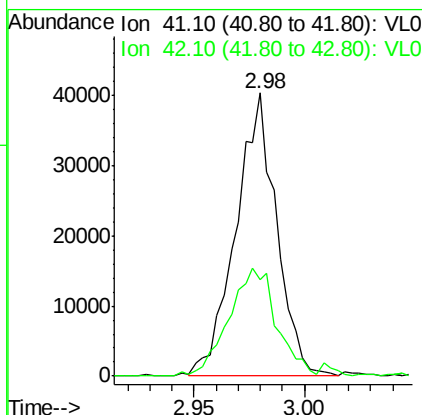
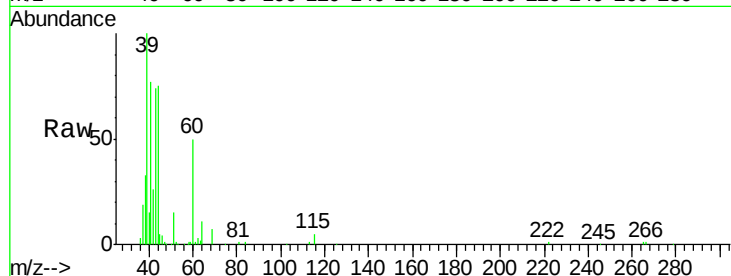
#9
 Propene
 Concen: 1.189 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.02 min
 Lab File: VL035217.D
 Acq: 21 Jul 2020 18:39

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-CAFETERIA

Tot Ion: 41 Resp: 51777
 Ion Ratio Lower Upper
 41 100
 42 46.8 54.6 81.8#

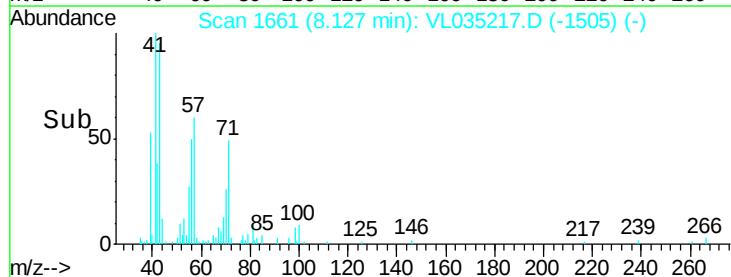
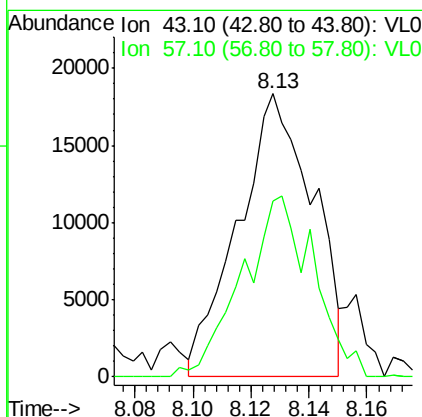
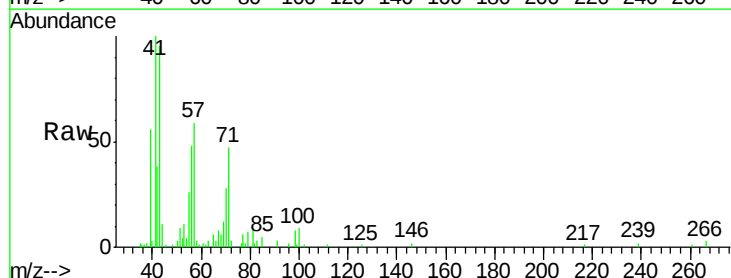
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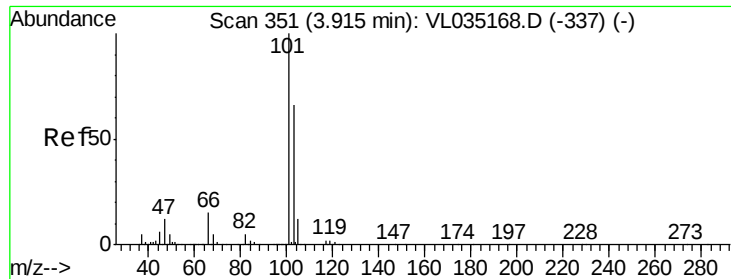
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#10
 Heptane
 Concen: 0.294 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VL035217.D
 Acq: 21 Jul 2020 18:39

Tgt Ion: 43 Resp: 32868
 Ion Ratio Lower Upper
 43 100
 57 61.1 41.8 62.6





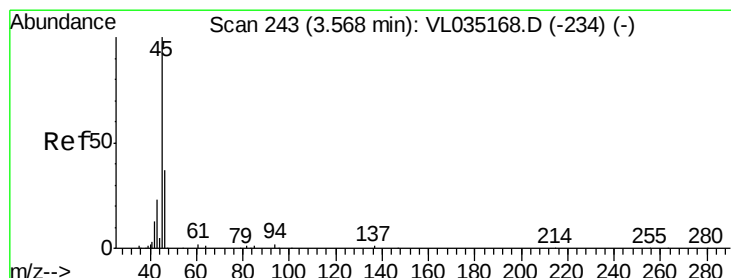
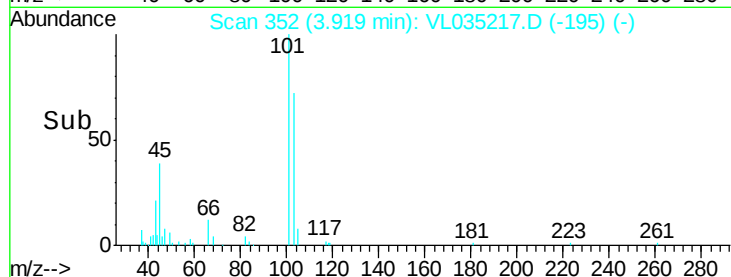
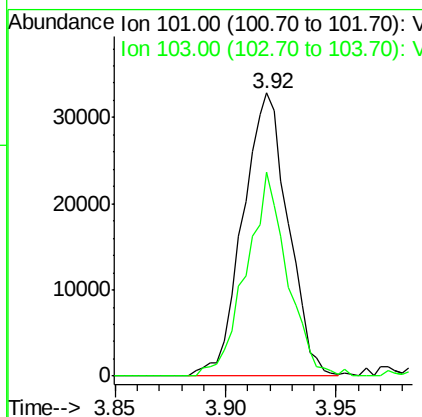
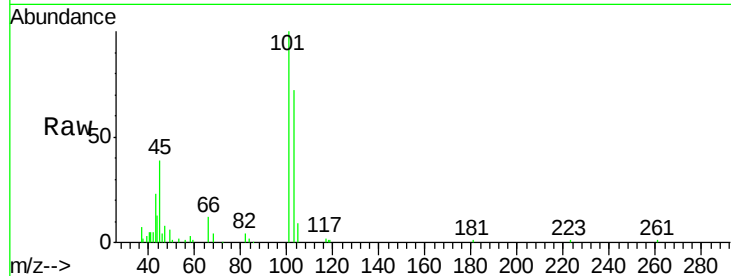
#11
Trichlorofluoromethane
Concen: 0.284 ppbv
RT: 3.92 min Scan# 352
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Tot Ion	Ratio	Lower	Upper
101	100		
103	72.0	53.1	79.7

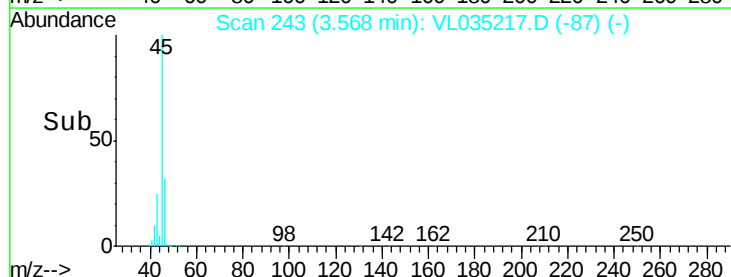
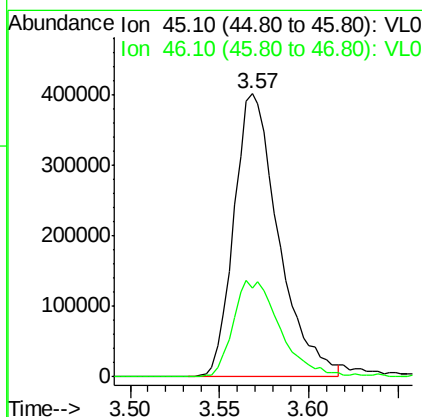
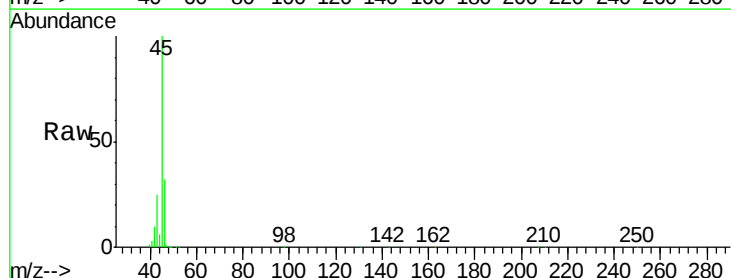
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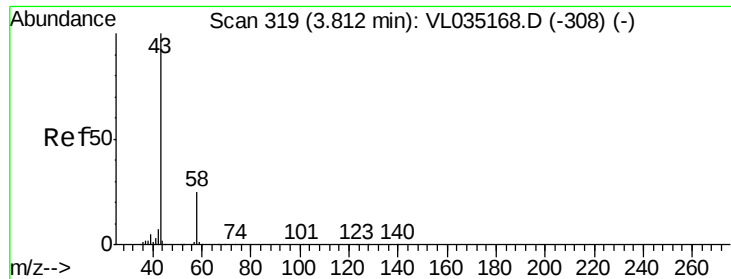
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#13
Ethanol
Concen: 50.619 ppbv
RT: 3.57 min Scan# 243
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.4	16.2	65.0





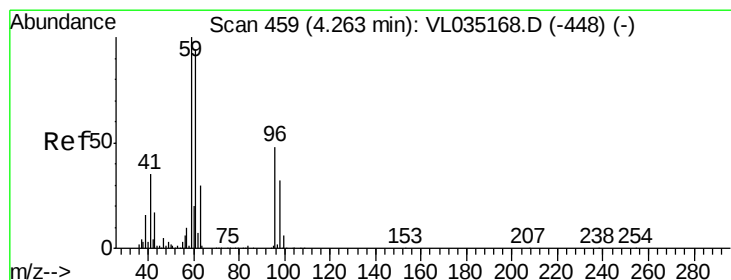
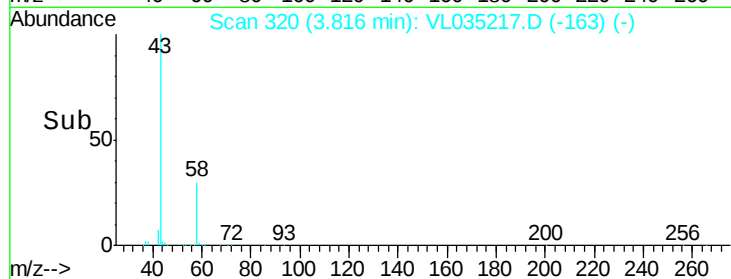
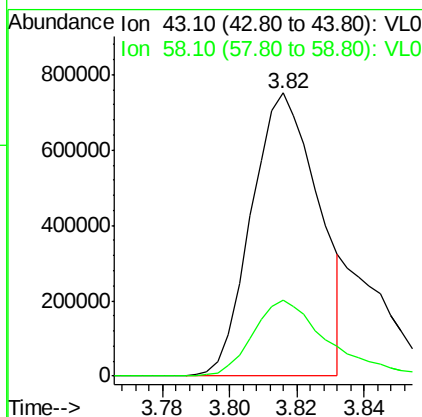
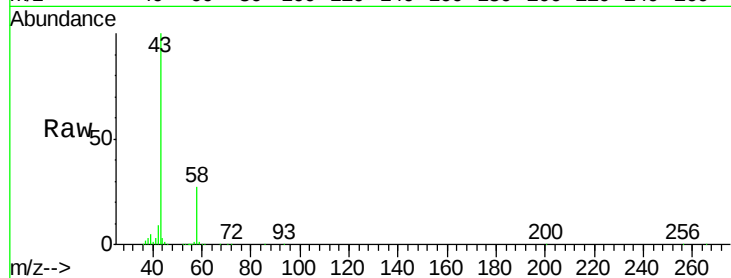
#15
Acetone
Concen: 7.359 ppbv m
RT: 3.82 min Scan# 320
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Tot Ion: 43 Resp: 1039020
Ion Ratio Lower Upper
43 100
58 30.5 21.3 31.9

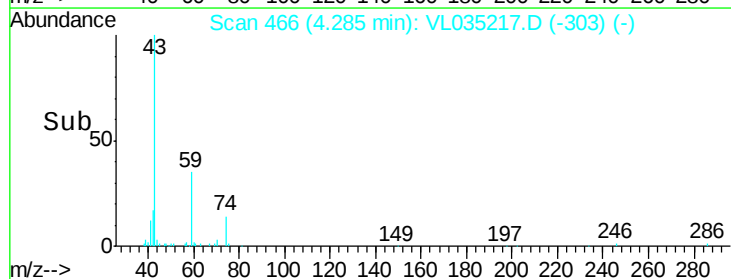
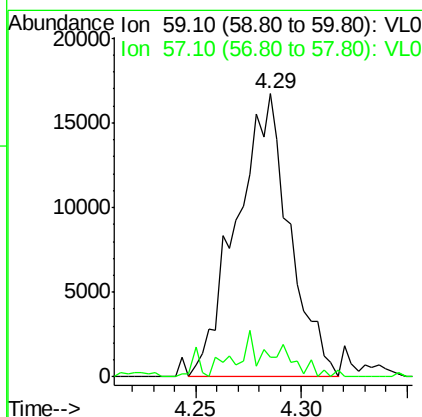
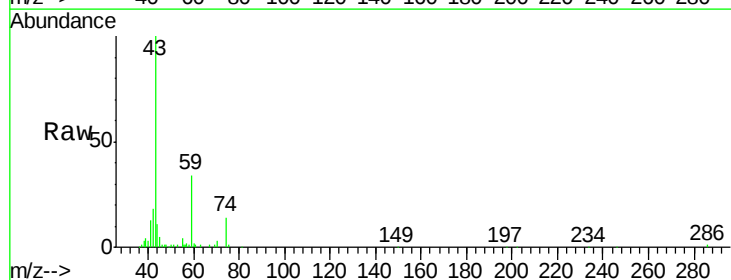
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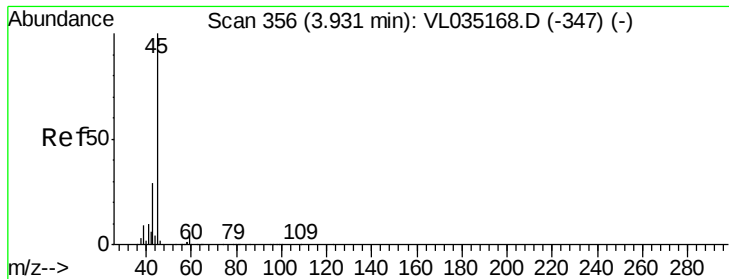
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#17
tert-Butyl alcohol
Concen: 0.234 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.02 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion: 59 Resp: 29281
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 3.409 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion: 45 Resp: 290342

Ion Ratio Lower Upper

45 100

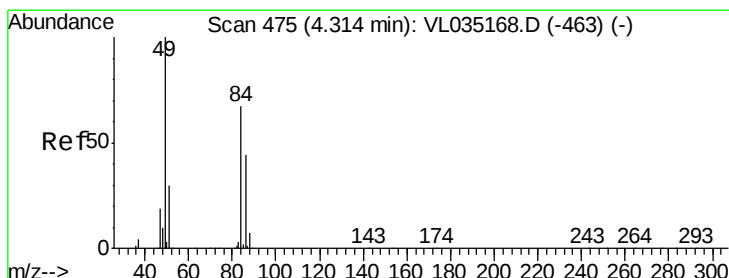
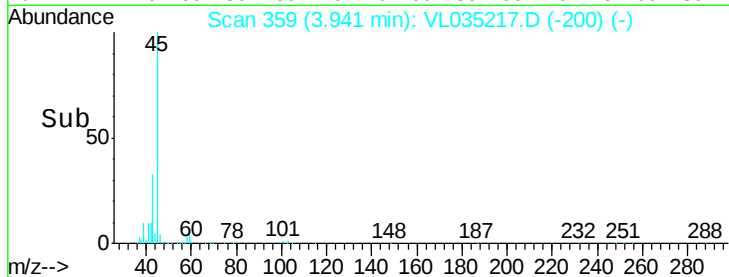
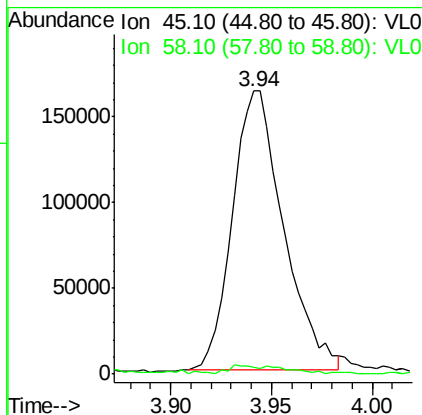
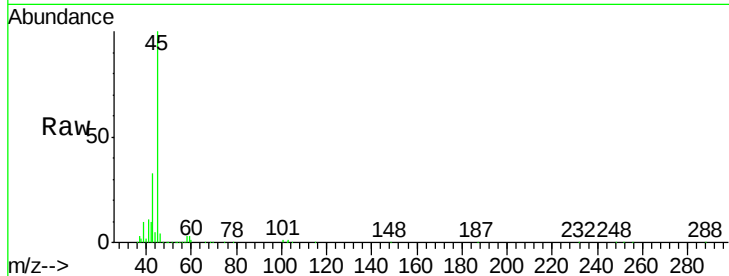
58 4.7 2.1 3.1#

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#20

Methylene Chloride

Concen: 1.026 ppbv m

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Tgt Ion: 84 Resp: 63050

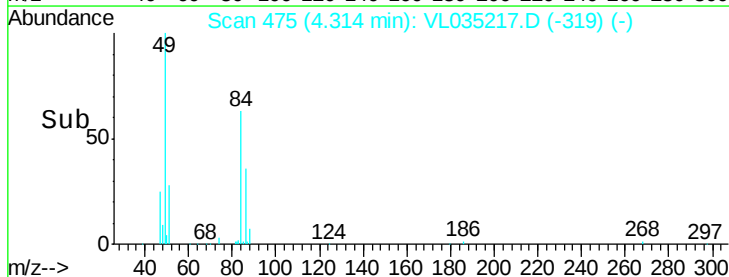
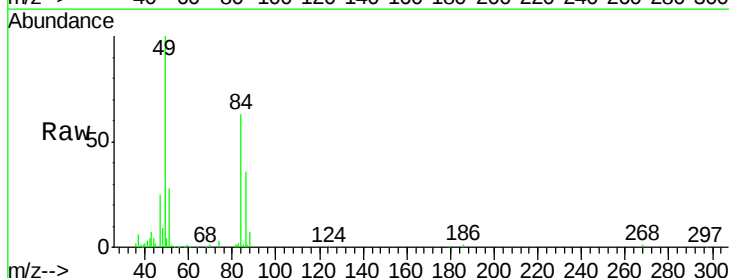
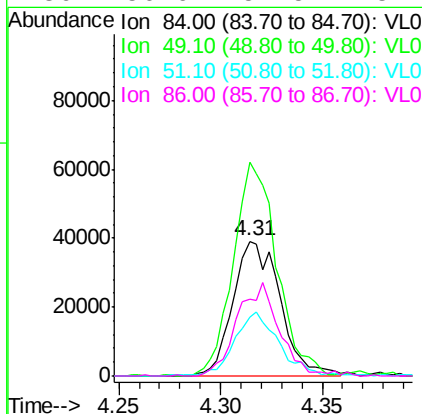
Ion Ratio Lower Upper

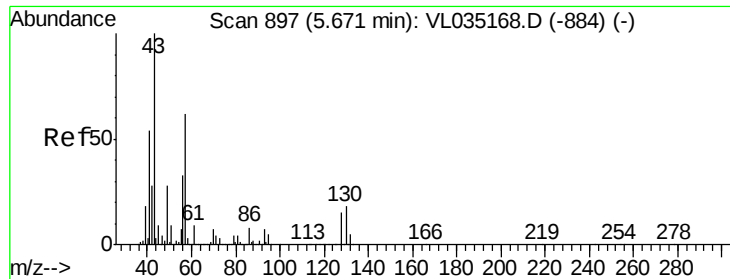
84 100

49 158.5 119.4 179.0

51 43.9 36.6 55.0

86 56.6 52.5 78.7





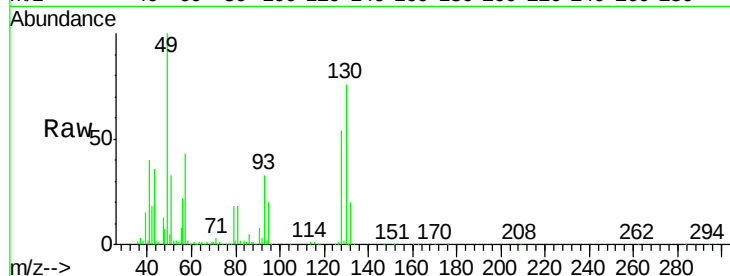
#26
Hexane
Concen: 1.476 ppbv m
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

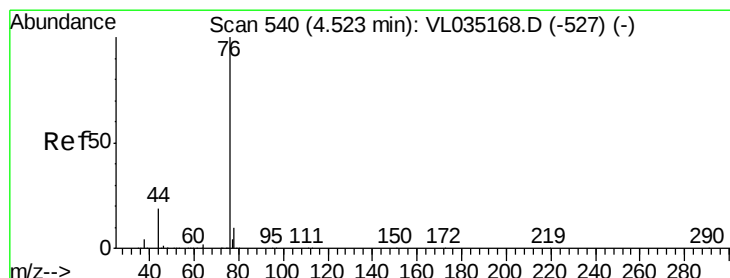
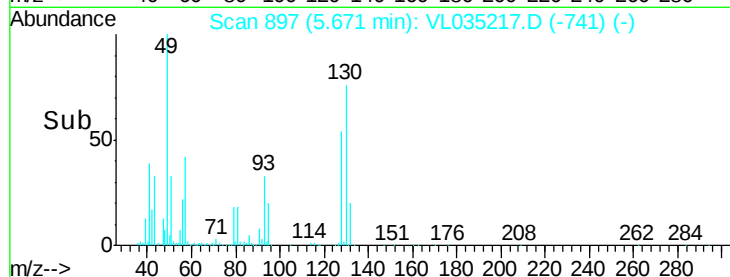
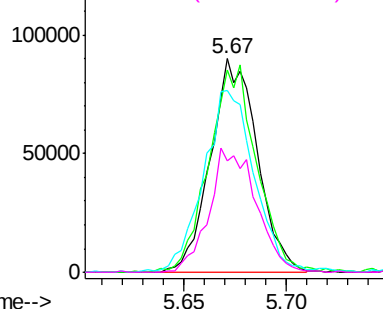
Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.9	109.3#
43	93.6	179.5	269.3#
56	58.4	42.9	64.3

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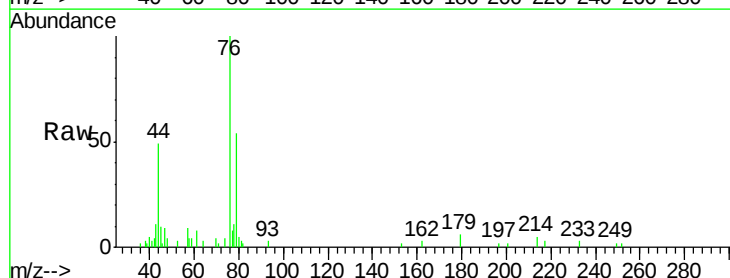


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

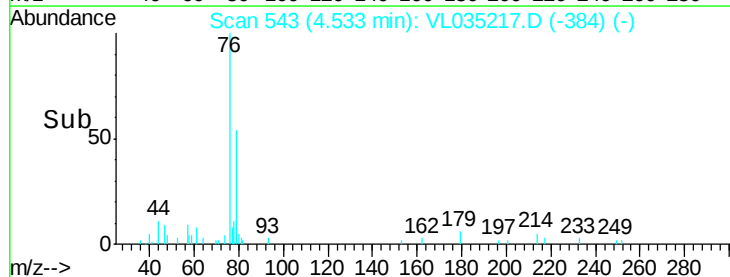
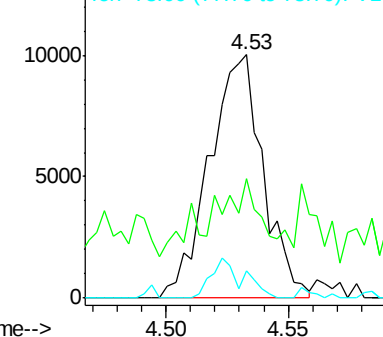


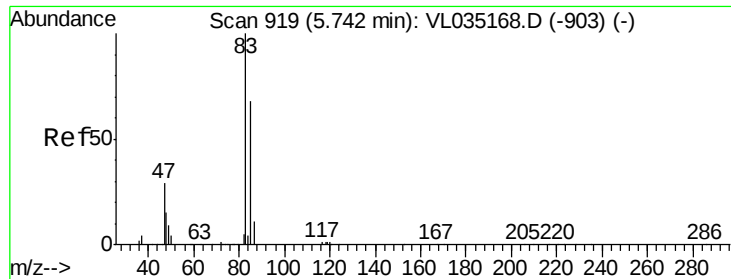
#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 4.53 min Scan# 543
Delta R.T. 0.01 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion	Ratio	Lower	Upper
76	100		
44	30.4	14.9	22.3#
78	10.8	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





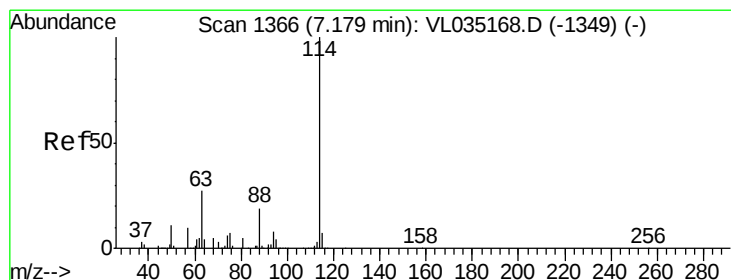
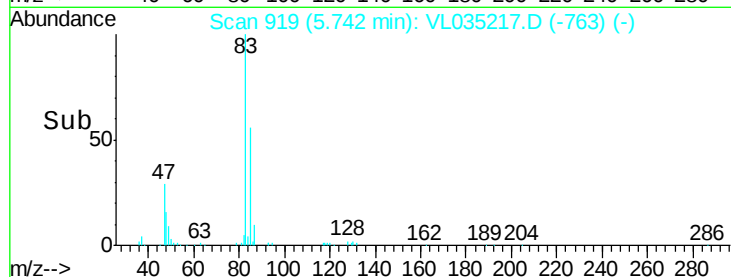
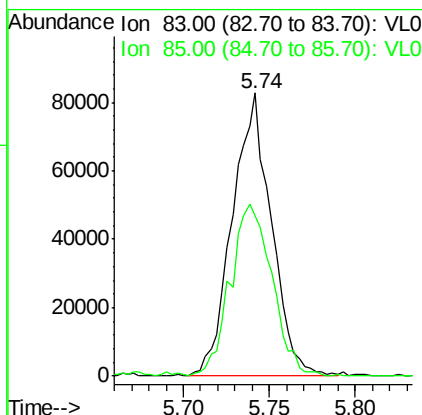
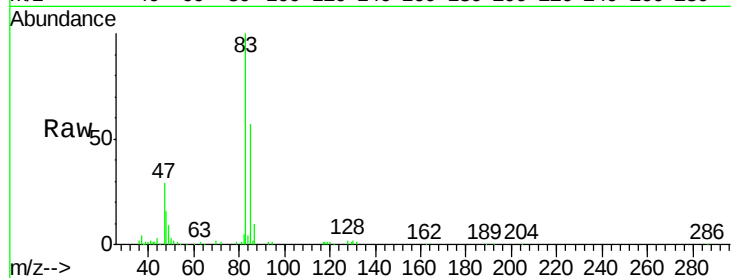
#29
Chloroform
Concen: 0.806 ppbv
RT: 5.74 min Scan# 919
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Tot Ion	83	Resp	130608
Ion Ratio	100	Lower	Upper
83	100		
85	56.7	54.3	81.5

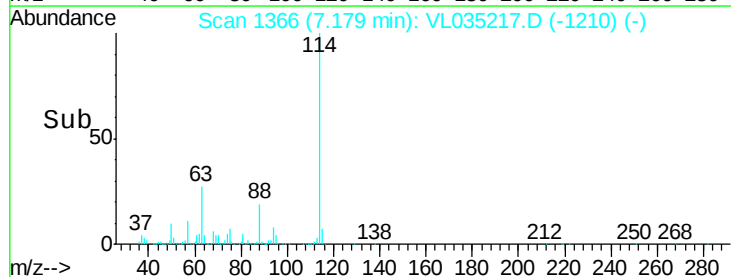
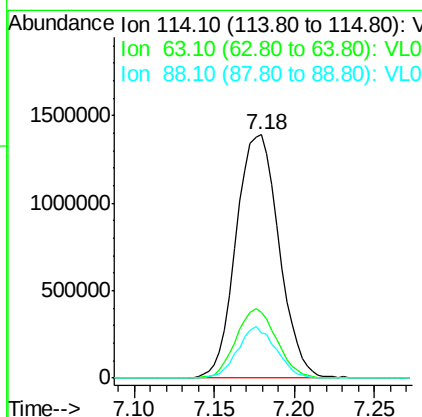
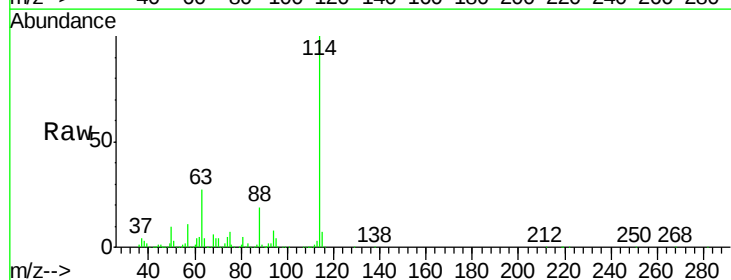
Manual Integrations
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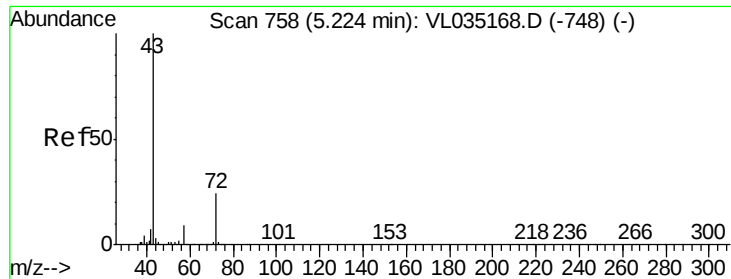
MMDadoda
7/23/2020 2:59:35 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion	114	Resp	2543015
Ion Ratio	100	Lower	Upper
114	100		
63	27.2	22.0	33.0
88	19.1	15.4	23.0





#34

2-Butanone

Concen: 0.740 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion: 43 Resp: 100433

Ion Ratio Lower Upper

43 100

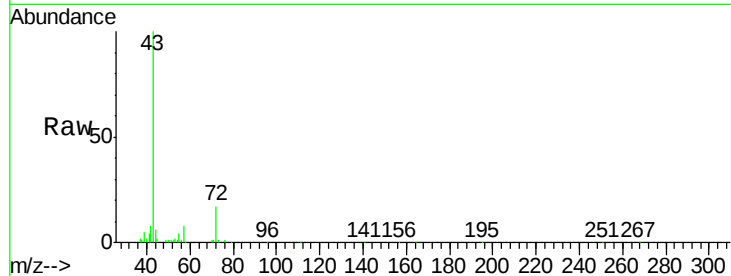
72 24.0 18.6 28.0

Manual Integrations

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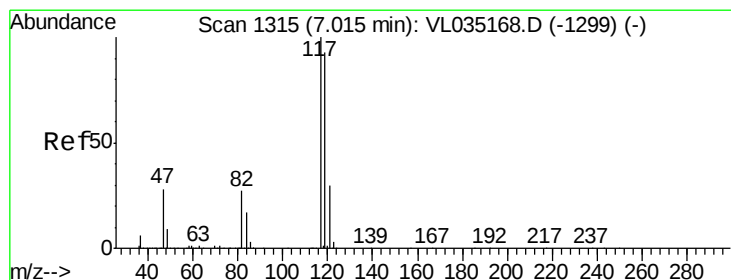
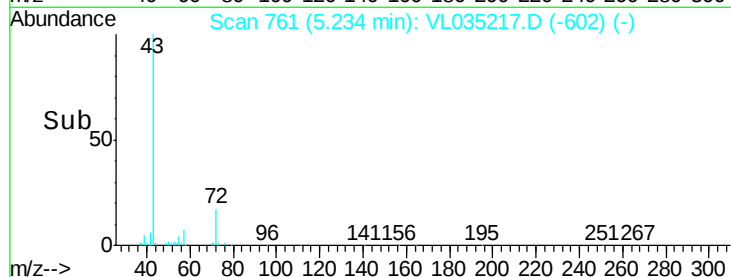
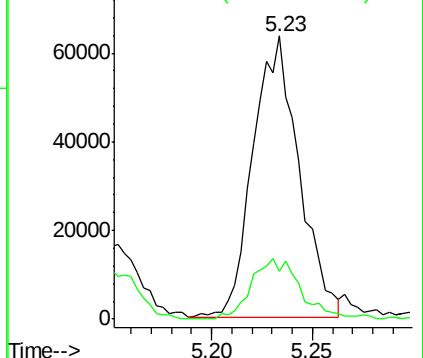
MMDadoda

7/23/2020 2:59:35 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.083 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

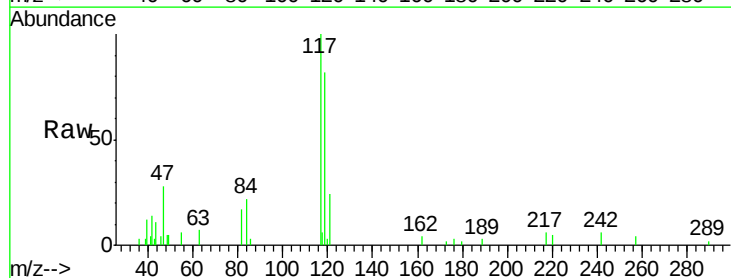
Tgt Ion: 117 Resp: 13737

Ion Ratio Lower Upper

117 100

119 81.9 74.8 112.2

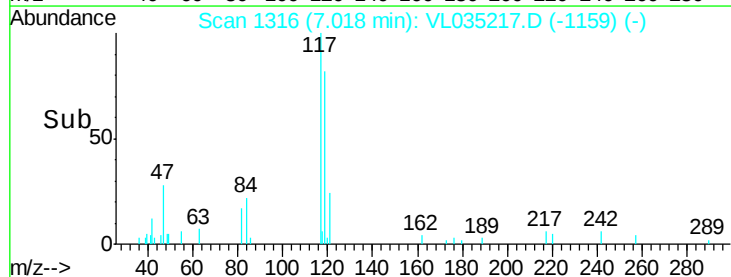
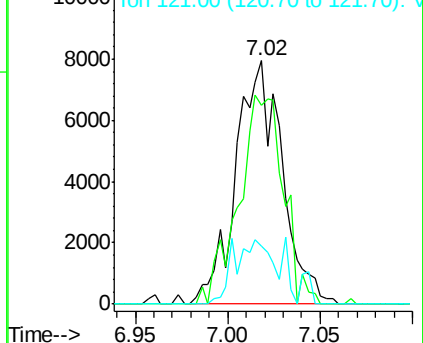
121 24.0 24.2 36.2#

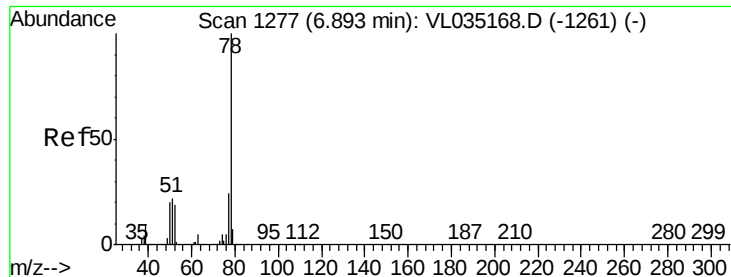


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





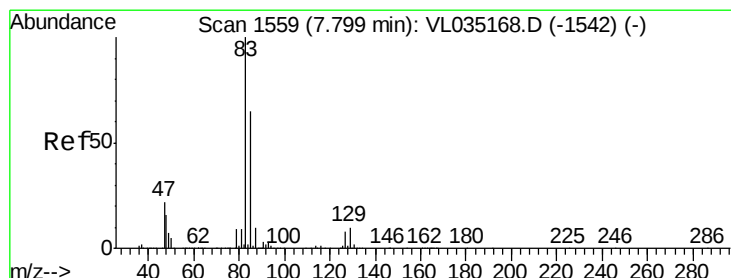
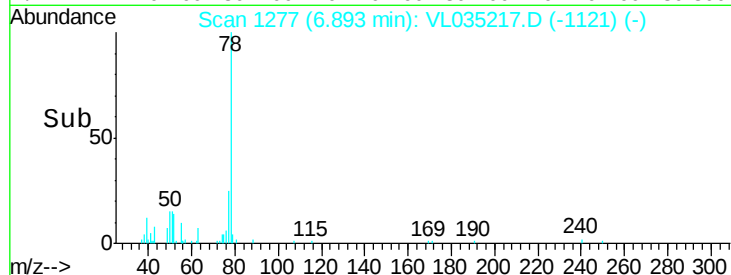
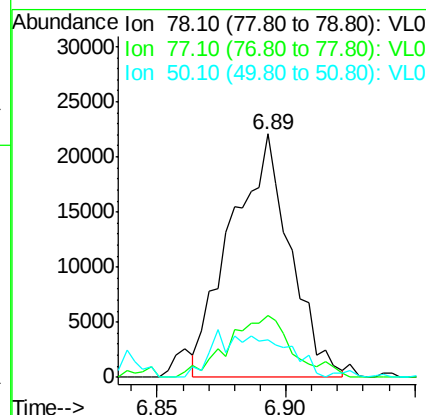
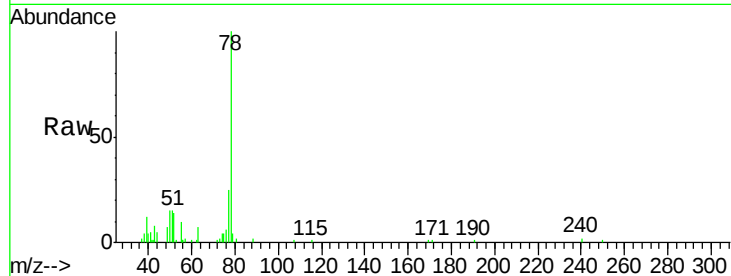
#36
Benzene
Concen: 0.191 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9
50	14.0	16.0	24.0

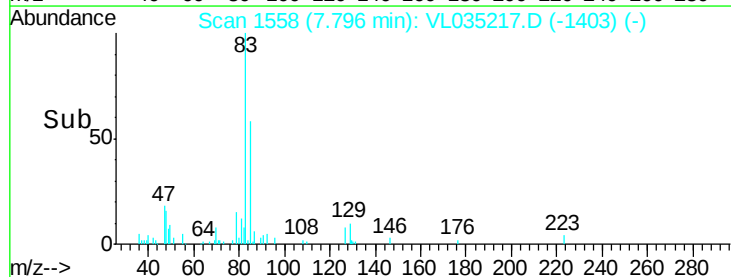
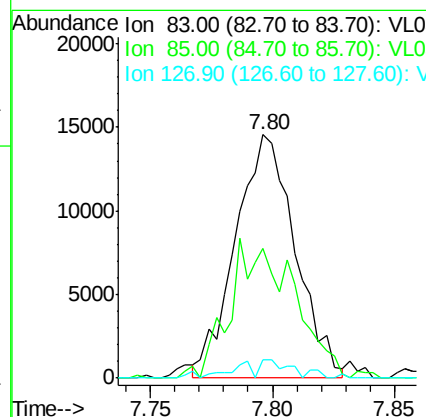
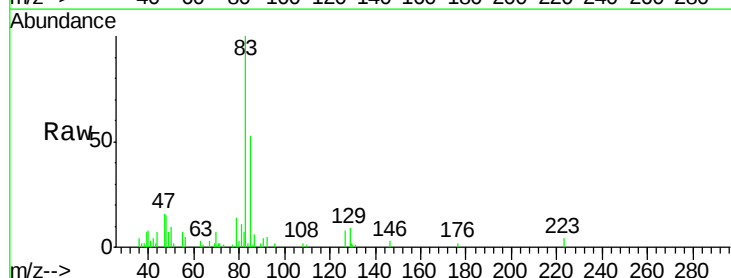
Manual Integrations
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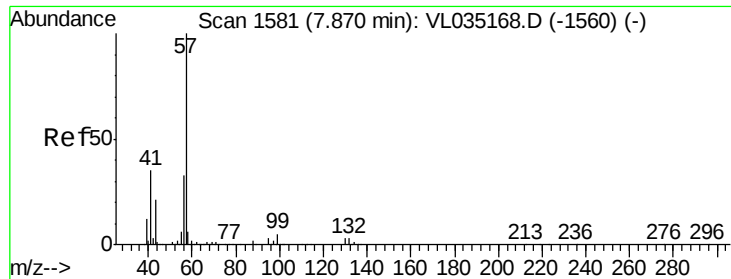
MMDadoda
7/23/2020 2:59:35 PM



#42
Bromodichloromethane
Concen: 0.150 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.4	52.2	78.4
127	6.0	6.3	9.5





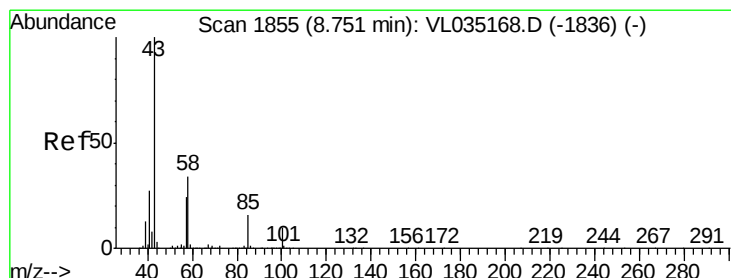
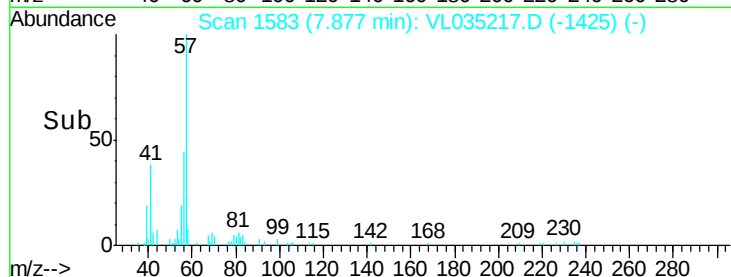
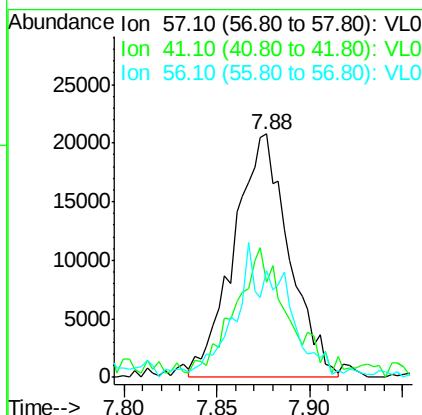
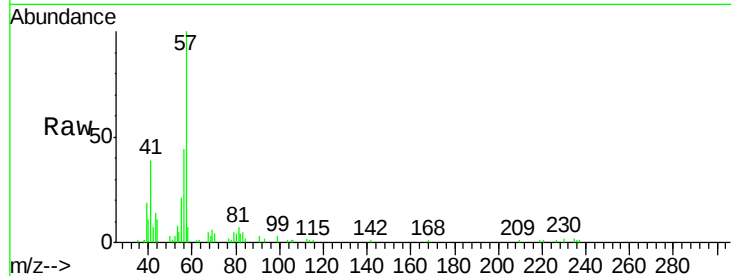
#44
 2,2,4-Trimethylpentane
 Concen: 0.136 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: VL035217.D
 Acq: 21 Jul 2020 18:39

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-CAFETERIA

Tot Ion	Ratio	Lower	Upper
57	100		
41	50.7	27.0	40.6#
56	49.8	25.5	38.3#

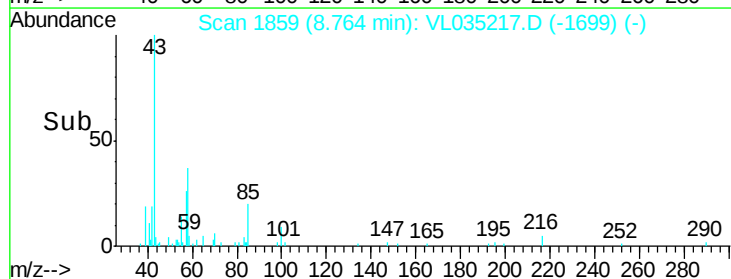
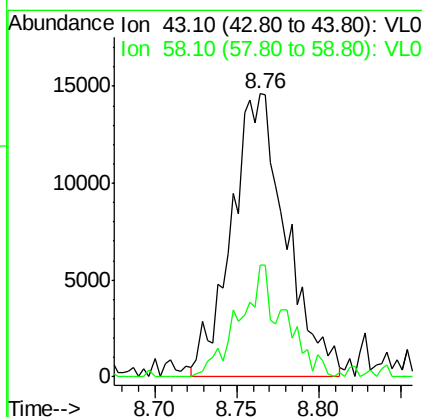
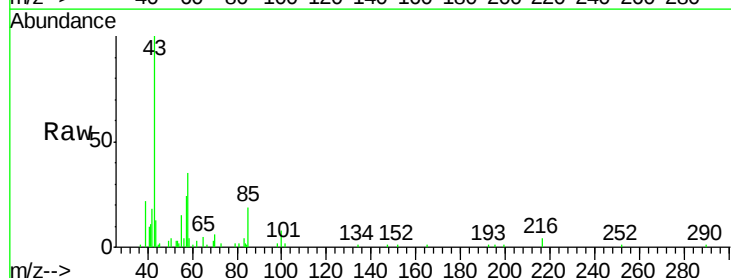
Manual Integrations
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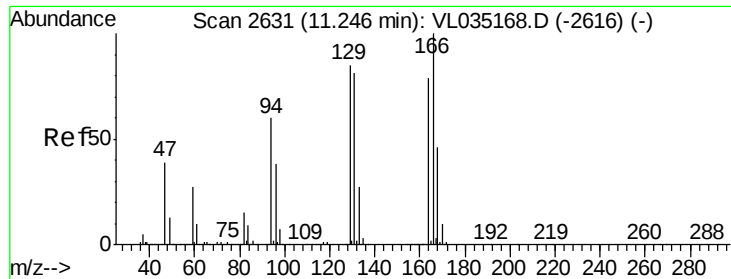
MMDadoda
 7/23/2020 2:59:35 PM



#50
 4-Methyl-2-Pentanone
 Concen: 0.174 ppbv m
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: VL035217.D
 Acq: 21 Jul 2020 18:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





#52

Tetrachloroethene

Concen: 0.121 ppbv m

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion:164 Resp: 8349

Ion Ratio Lower Upper

164 100

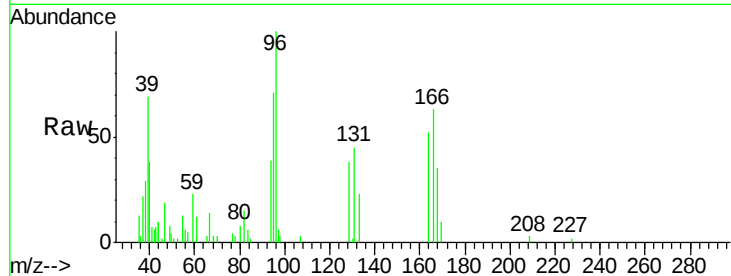
166 121.3 100.7 151.1

129 73.1 85.8 128.6#

131 86.7 82.0 123.0

Manual Integrations
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MMDadoda
7/23/2020 2:59:35 PM

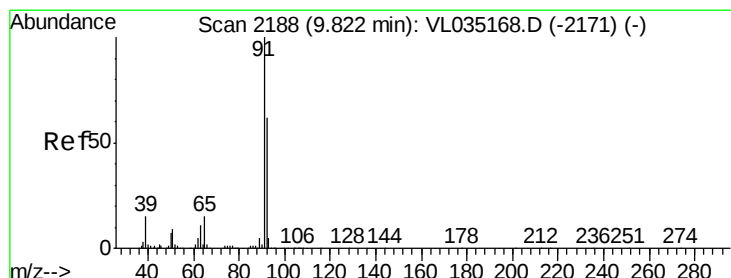
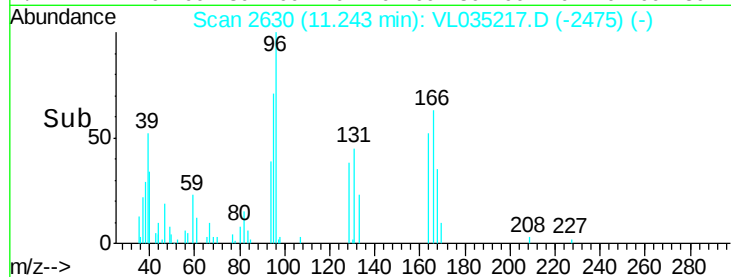
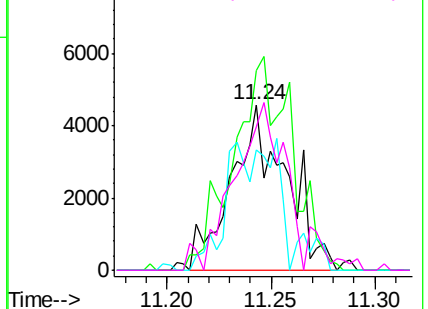


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.981 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL035217.D

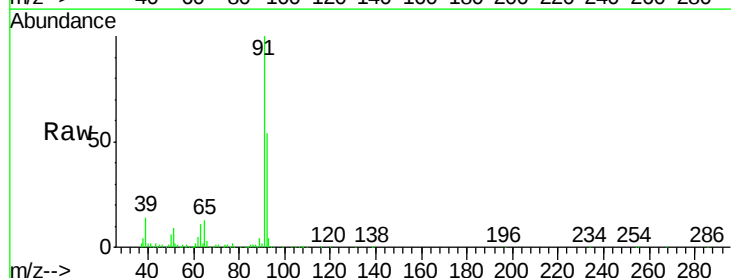
Acq: 21 Jul 2020 18:39

Tgt Ion: 91 Resp: 578954

Ion Ratio Lower Upper

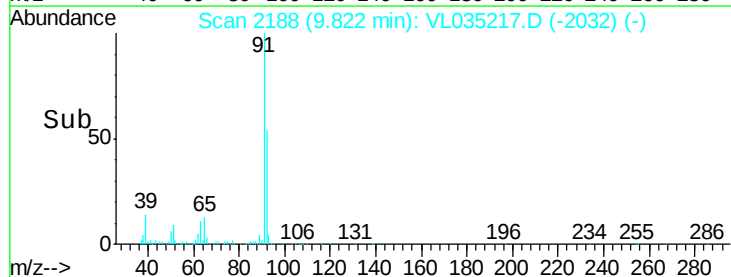
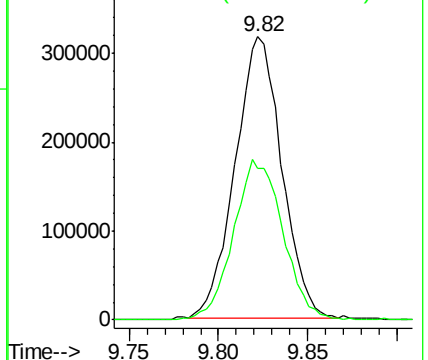
91 100

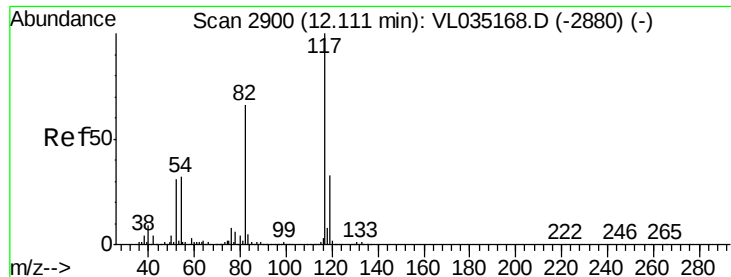
92 59.9 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





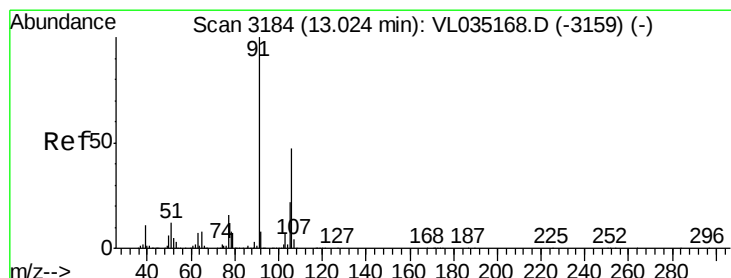
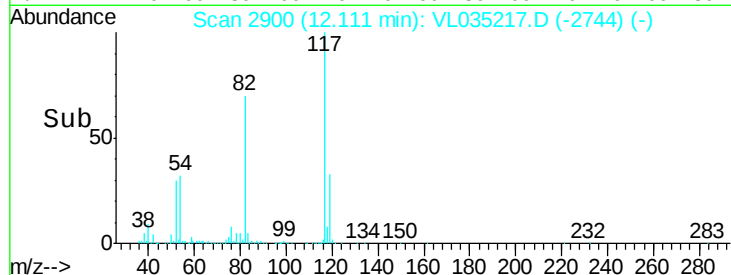
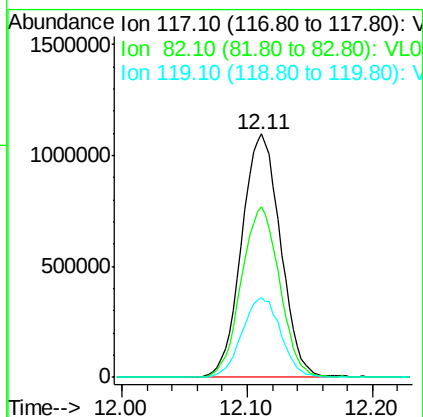
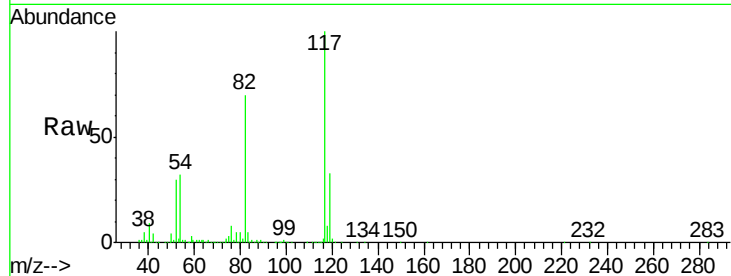
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-CAFETERIA

Tot Ion:117 Resp: 2355503
Ion Ratio Lower Upper
117 100
82 69.2 52.3 78.5
119 32.8 24.9 37.3

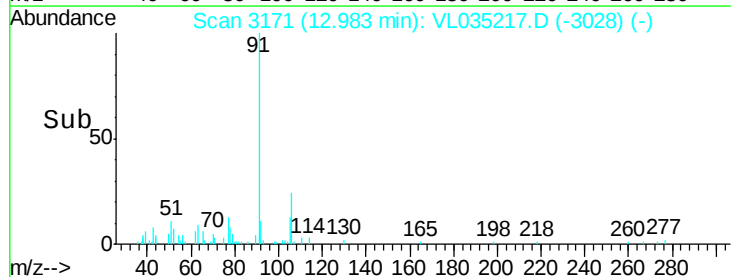
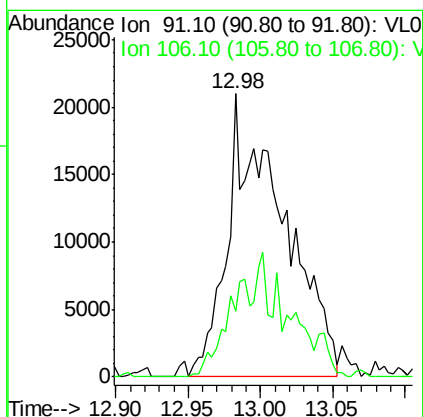
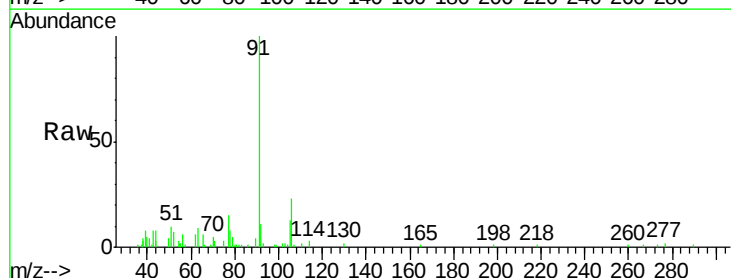
Manual Integrations
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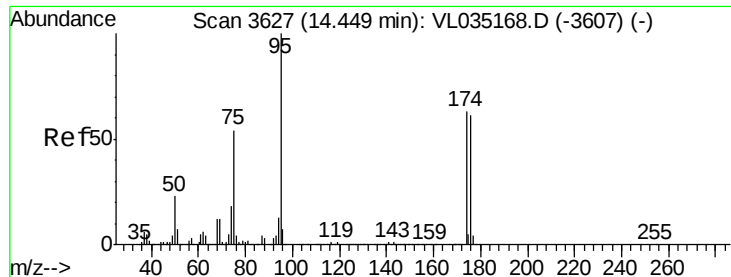
MMDadoda
7/23/2020 2:59:35 PM



#59
m/p-Xylene
Concen: 0.242 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.04 min
Lab File: VL035217.D
Acq: 21 Jul 2020 18:39

Tgt Ion: 91 Resp: 56137
Ion Ratio Lower Upper
91 100
106 0.0 36.2 54.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.336 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-CAFETERIA

Tot Ion: 95 Resp: 1977757

Ion Ratio Lower Upper

95 100

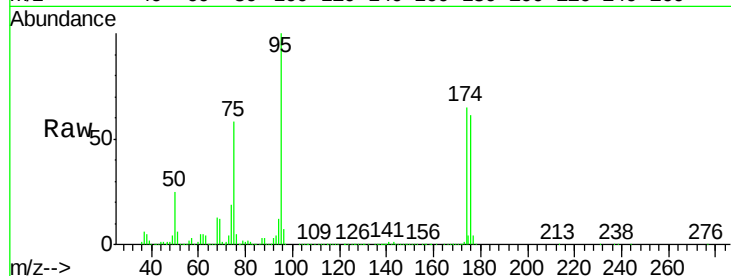
174 64.5 52.2 78.2

175 4.6 4.0 6.0

Manual Integrations
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MMDadoda

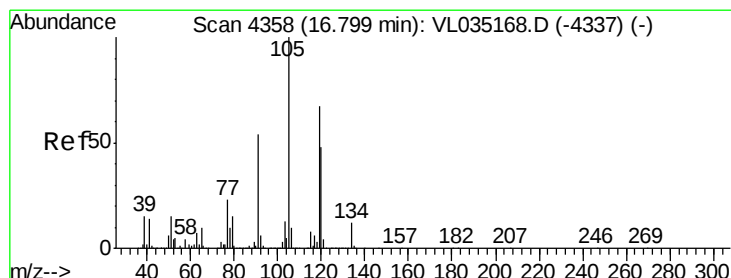
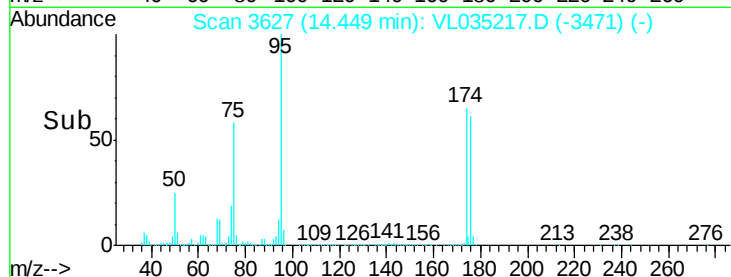
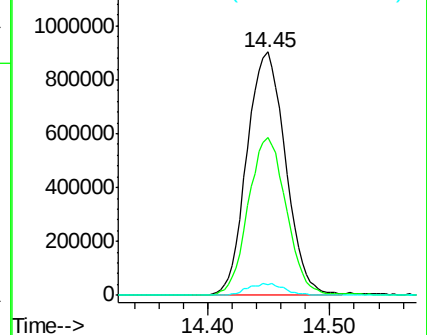
7/23/2020 2:59:35 PM



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: 0.201 ppbv m

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL035217.D

Acq: 21 Jul 2020 18:39

Tgt Ion:105 Resp: 55883

Ion Ratio Lower Upper

105 100

120 53.2 38.6 57.8

91 14.3 43.6 65.4#

77 24.8 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

