

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034390.D
 Acq On : 19 Nov 2019 22:16
 Operator : SY/AP
 Sample : K5924-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

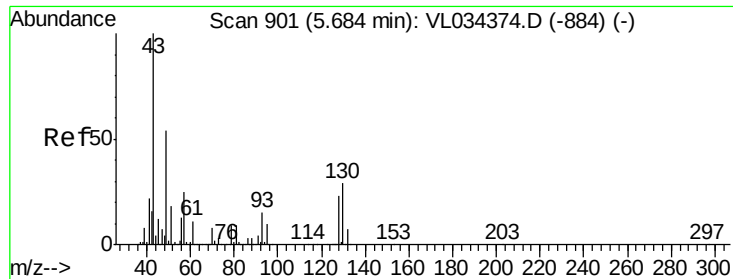
Manual Integrations
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 11/20/2019 3:54:02 PM

Quant Time: Nov 20 06:06:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	969624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1880731	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1853422	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1551868	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	3.02	85	128788	0.734	ppbv	92
3) Chlorodifluoromethane	2.96	51	73403m	0.607	ppbv	
4) Chloromethane	3.11	50	27043	0.379	ppbv	100
9) Propene	2.99	41	131041m	2.440	ppbv	
11) Trichlorofluoromethane	3.93	101	35495	0.203	ppbv #	80
13) Ethanol	3.59	45	1670676	106.200	ppbv	95
15) Acetone	3.83	43	816889	5.883	ppbv	99
19) Isopropyl Alcohol	3.96	45	1555300	15.402	ppbv	99
20) Methylene Chloride	4.33	84	54871	1.114	ppbv	96
26) Hexane	5.70	57	81480	0.765	ppbv #	48
31) cis-1,2-Dichloroethene	5.56	61	378118	3.437	ppbv	95
34) 2-Butanone	5.26	43	23327	0.151	ppbv #	88
35) Carbon Tetrachloride	7.04	117	12282m	0.076	ppbv	
36) Benzene	6.91	78	30462m	0.162	ppbv	
38) Trichloroethene	7.86	130	136468	1.769	ppbv	95
52) Tetrachloroethene	11.29	164	8916431	109.612	ppbv	85
53) Toluene	9.84	91	89973m	0.421	ppbv	
59) m/p-Xylene	13.03	91	31065m	0.125	ppbv	
62) Isopropylbenzene	14.72	105	44688m	0.137	ppbv	
74) 1,2,4-Trimethylbenzene	16.82	105	59497	0.201	ppbv #	69

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

Instrument :

MSVOA_L

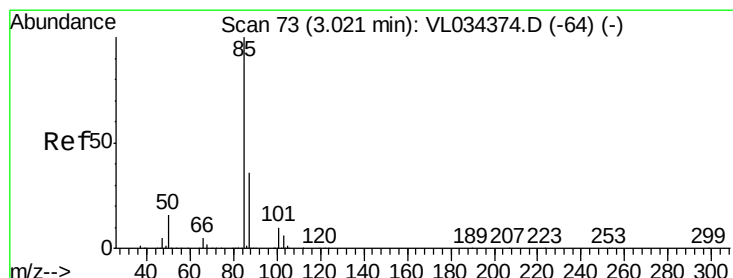
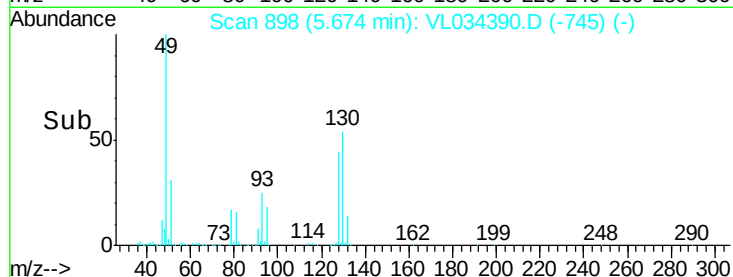
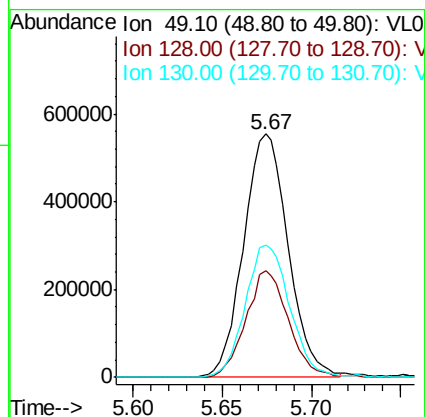
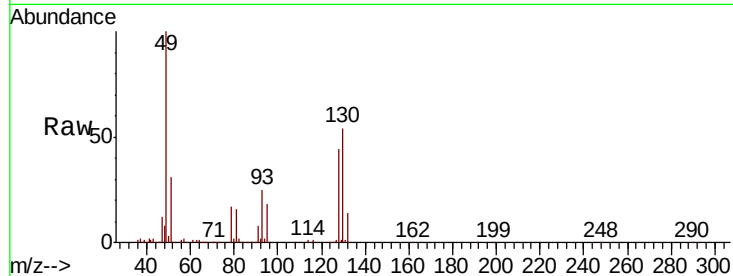
ClientSampled :

IA1DUP

Tot Ion:	49	Resp:	969624
Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.8	65.3
130	54.9	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.734 ppbv

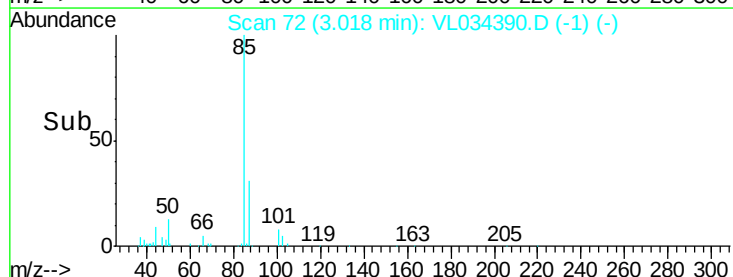
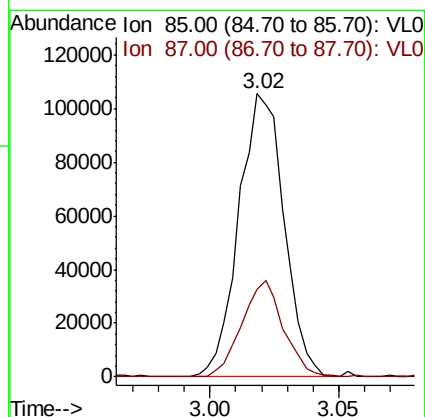
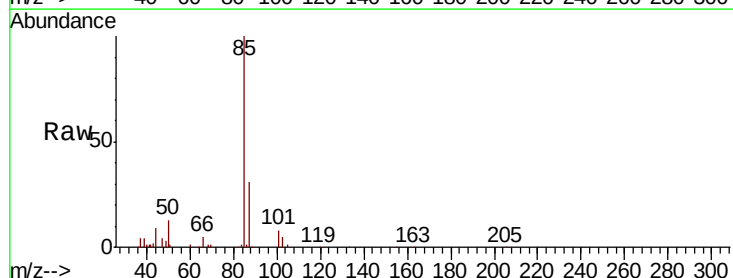
RT: 3.02 min Scan# 72

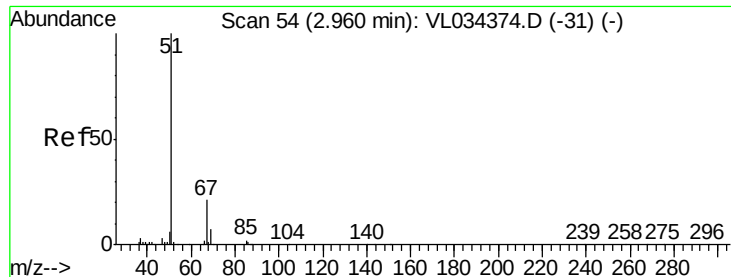
Delta R.T. -0.00 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

Tgt Ion:	85	Resp:	128788
Ion	Ratio	Lower	Upper
85	100		
87	31.0	28.5	42.7





#3

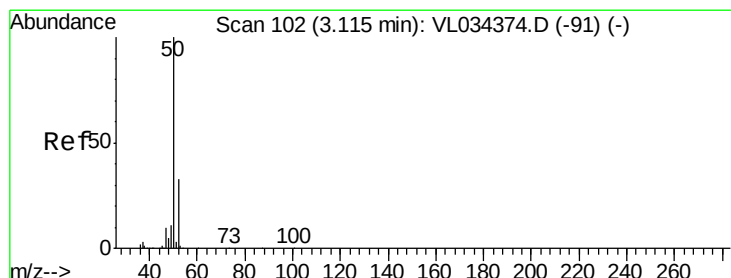
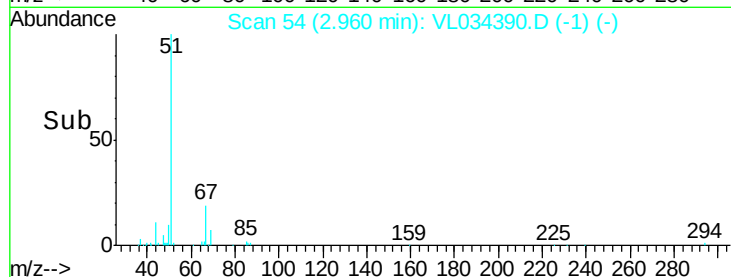
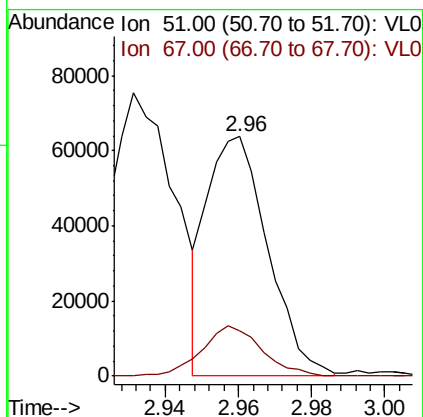
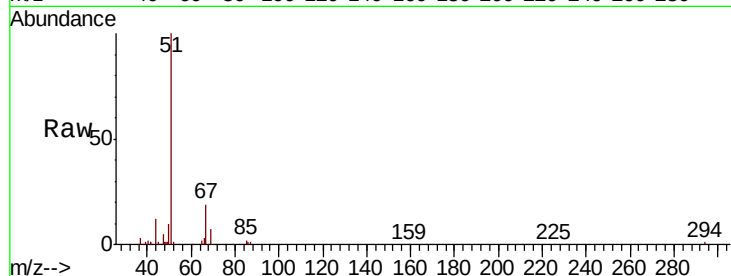
Chlorodifluoromethane
Concen: 0.607 ppbv m
RT: 2.96 min Scan# 54
Delta R.T. 0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.9	16.2	24.2

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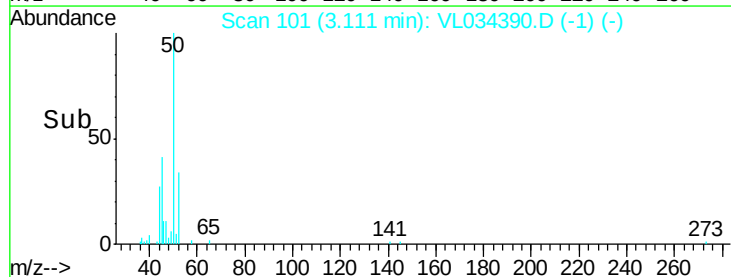
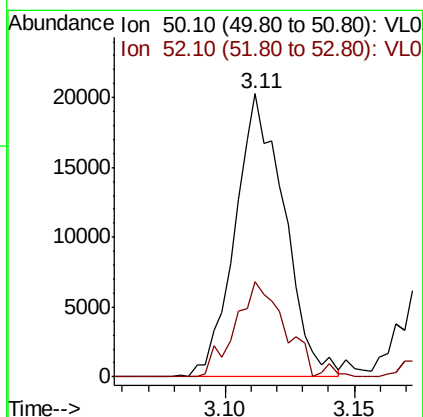
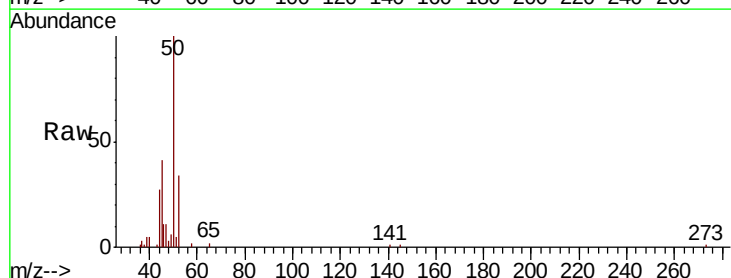
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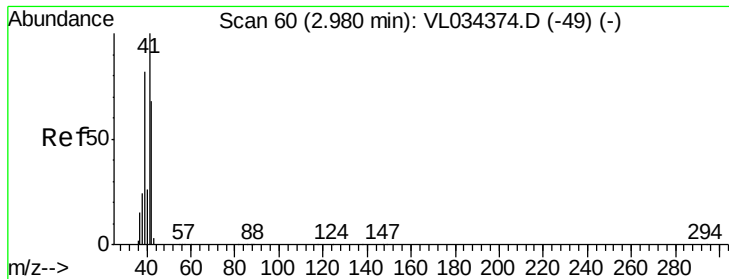


#4

Chloromethane
Concen: 0.379 ppbv
RT: 3.11 min Scan# 101
Delta R.T. -0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.8	40.2





#9

Propene

Concen: 2.440 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 41 Resp: 131041

Ion Ratio Lower Upper

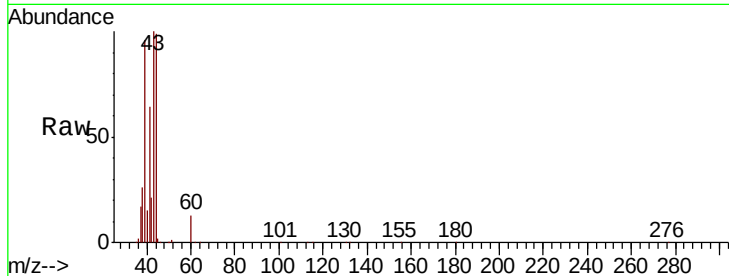
41 100

42 173.6 54.6 82.0#

Manual Integrations
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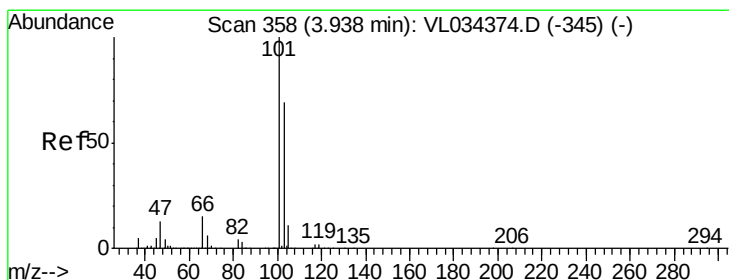
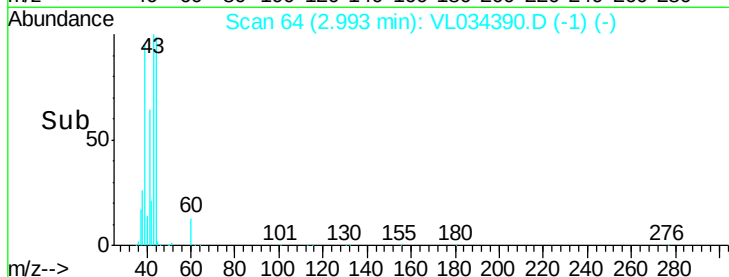
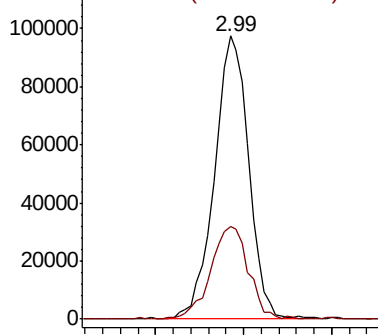
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.203 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034390.D

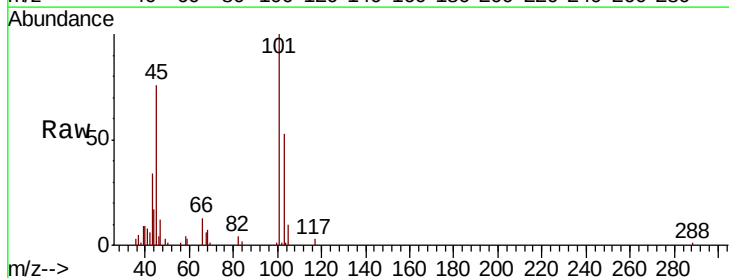
Acq: 19 Nov 2019 22:16

Tgt Ion: 101 Resp: 35495

Ion Ratio Lower Upper

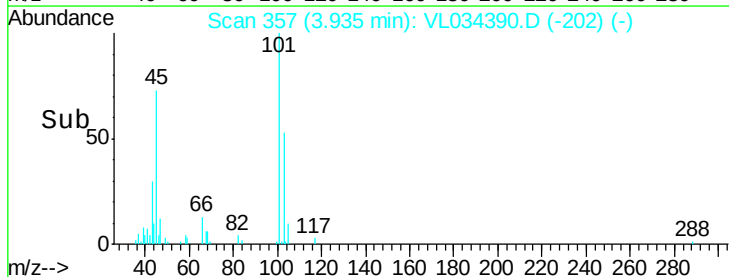
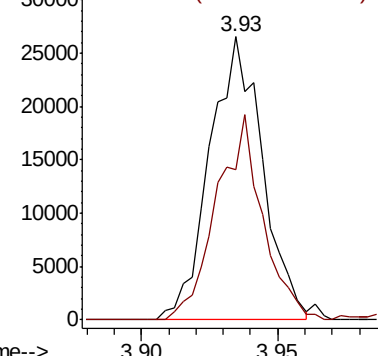
101 100

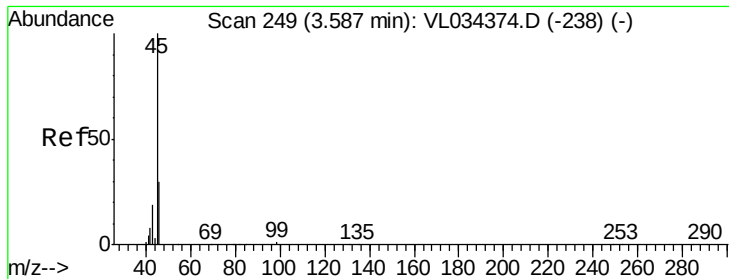
103 53.3 55.4 83.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





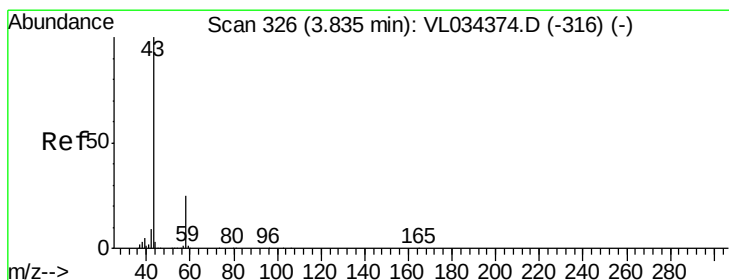
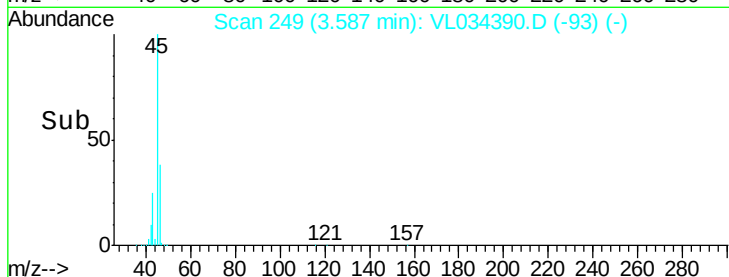
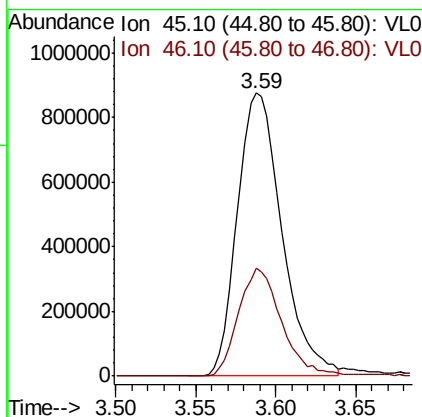
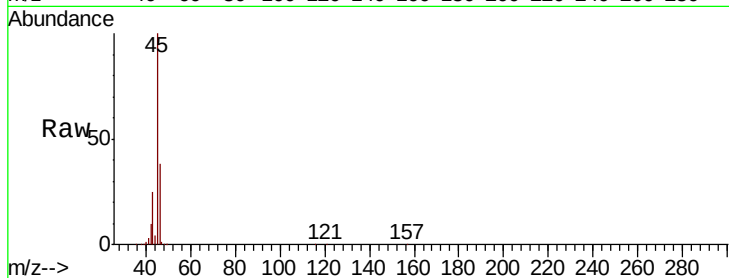
#13
Ethanol
Concen: 106.200 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 45 Resp: 1670676
Ion Ratio Lower Upper
45 100
46 37.6 13.8 55.4

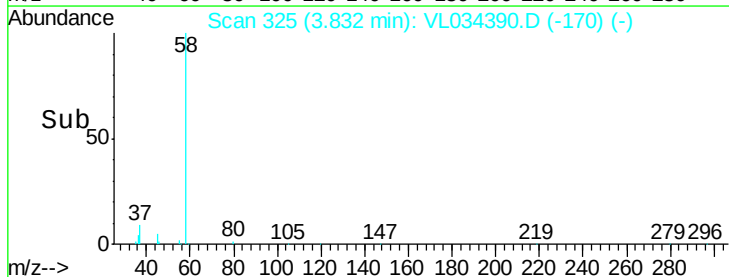
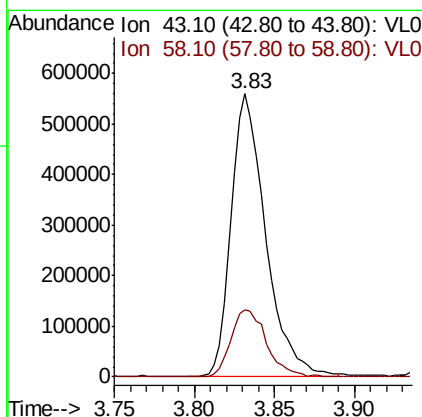
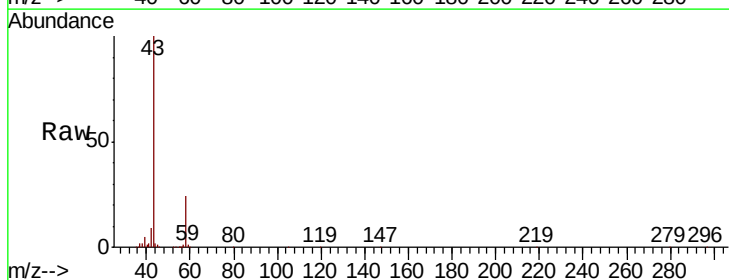
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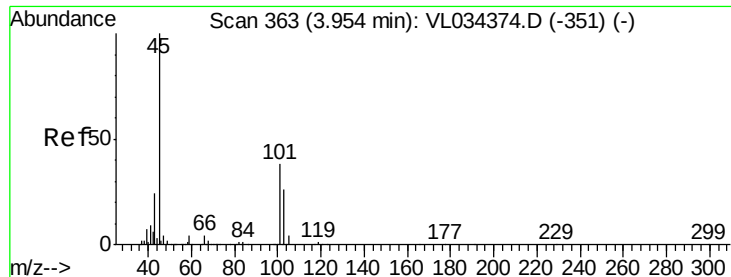
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#15
Acetone
Concen: 5.883 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Tgt Ion: 43 Resp: 816889
Ion Ratio Lower Upper
43 100
58 25.0 20.2 30.4





#19

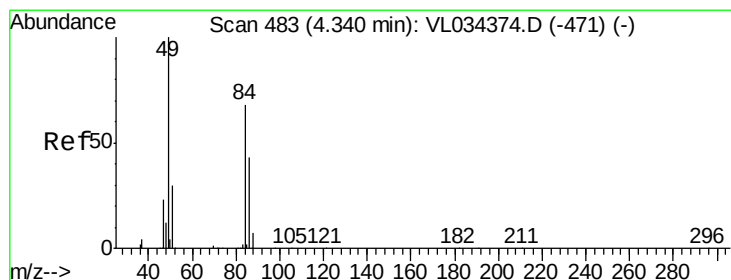
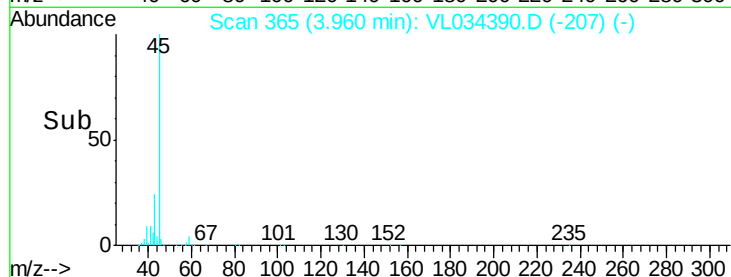
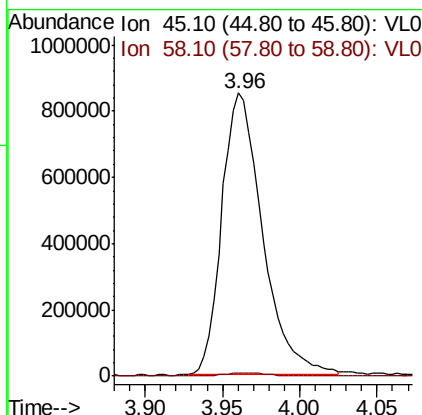
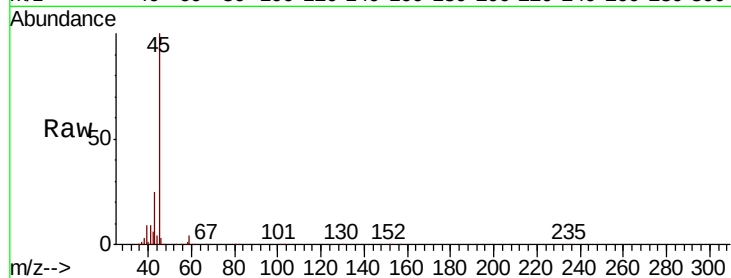
Isopropyl Alcohol
 Concen: 15.402 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DUP

Tot Ion: 45 Resp: 1555300
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.3 1.9

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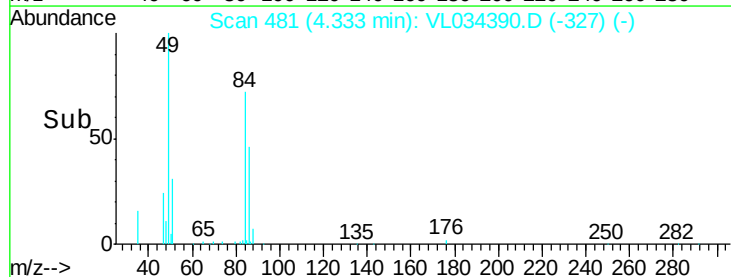
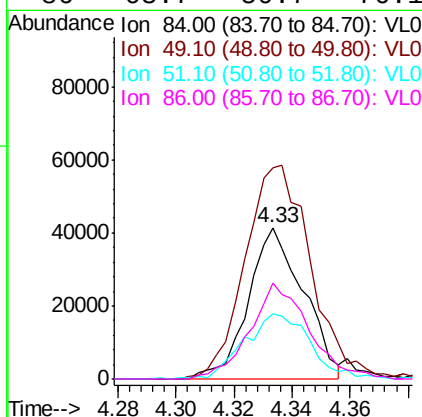
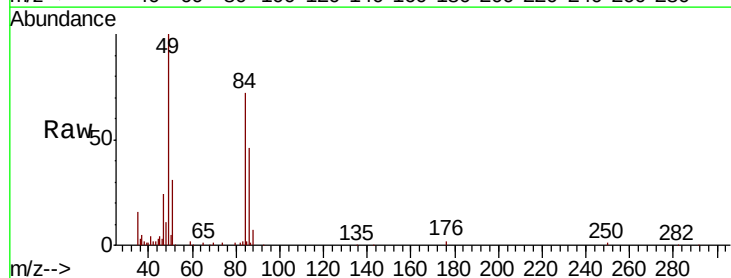
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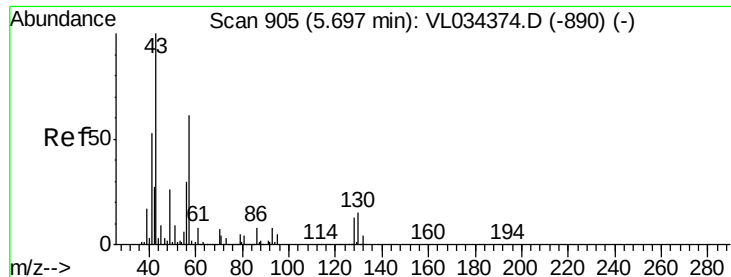


#20

Methylene Chloride
 Concen: 1.114 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Tgt Ion: 84 Resp: 54871
 Ion Ratio Lower Upper
 84 100
 49 137.8 116.8 175.2
 51 42.5 35.6 53.4
 86 63.7 50.7 76.1





#26

Hexane

Concen: 0.765 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 57 Resp: 81480

Ion Ratio Lower Upper

57 100

41 100.3 75.0 112.4

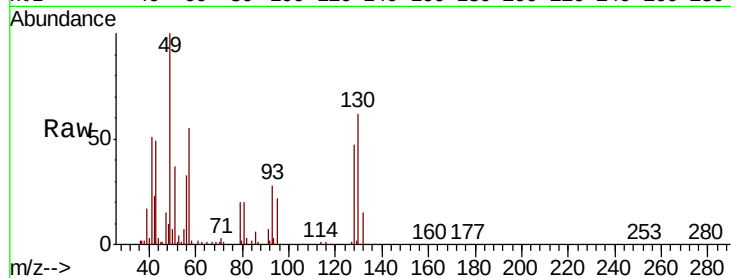
43 97.8 186.6 279.8#

56 56.3 41.5 62.3

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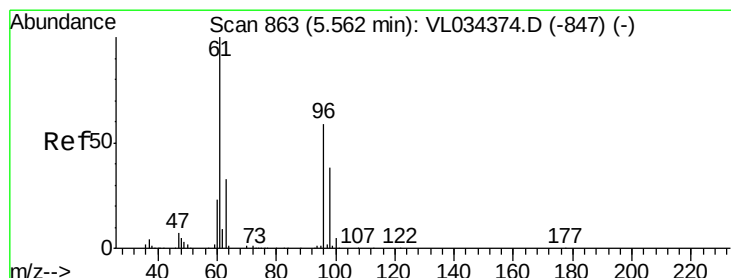
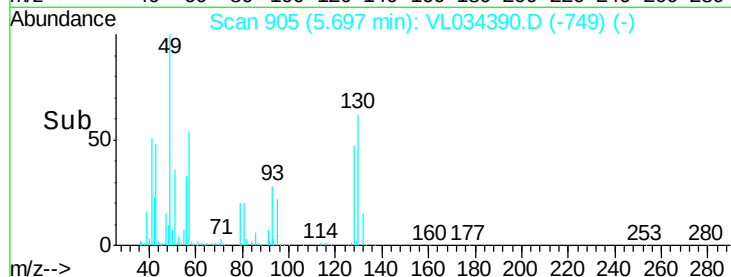
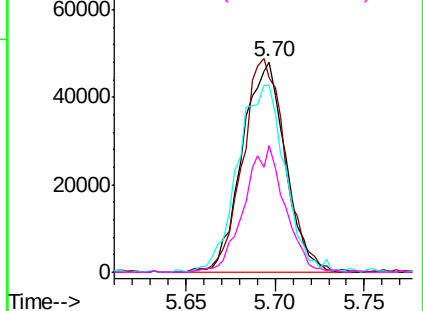


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#31

cis-1,2-Dichloroethene

Concen: 3.437 ppbv

RT: 5.56 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

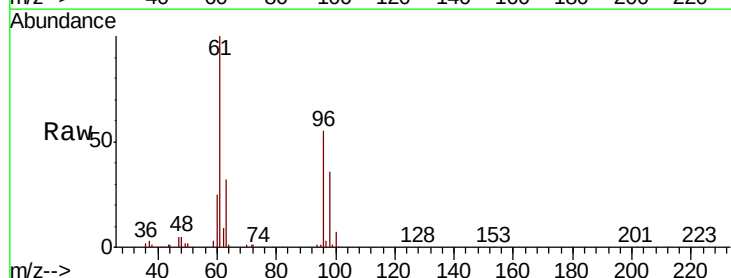
Tgt Ion: 61 Resp: 378118

Ion Ratio Lower Upper

61 100

96 54.6 47.4 71.2

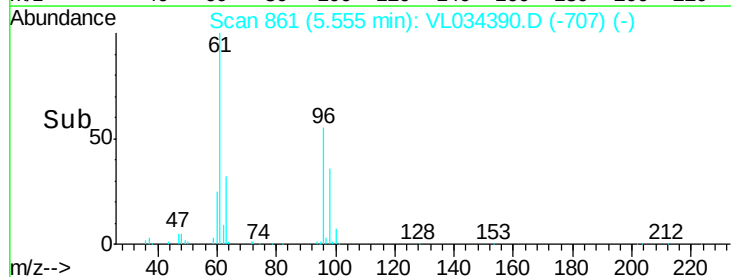
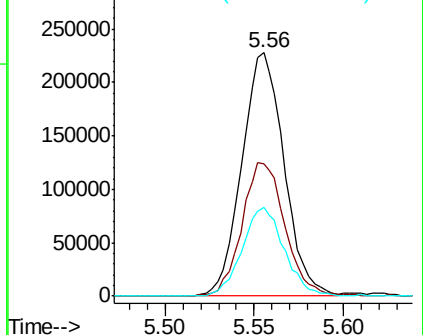
98 36.3 30.6 45.8

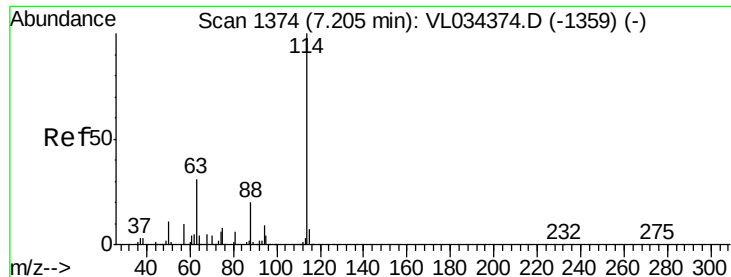


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





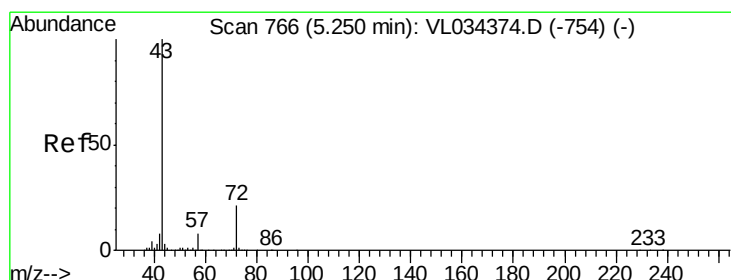
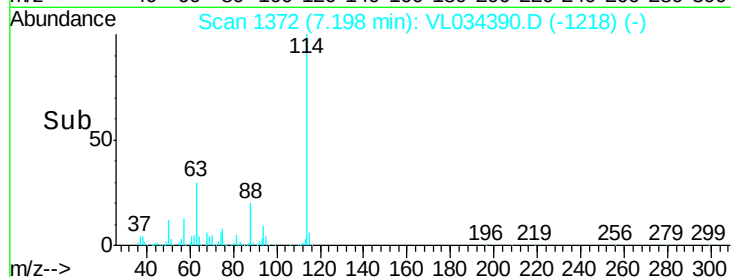
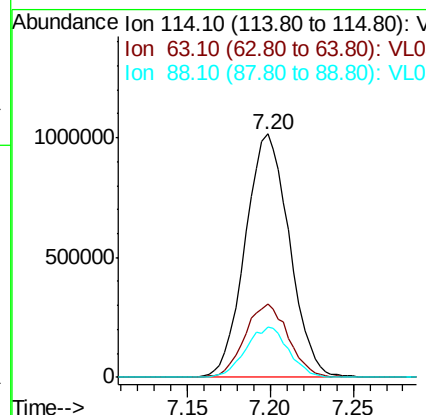
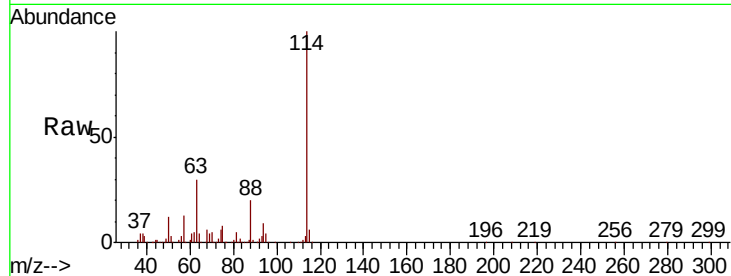
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.2	36.4
88	20.1	15.9	23.9

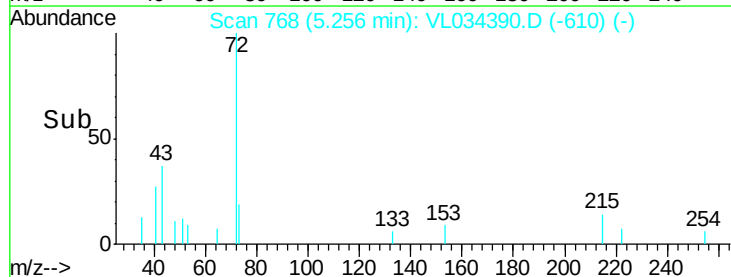
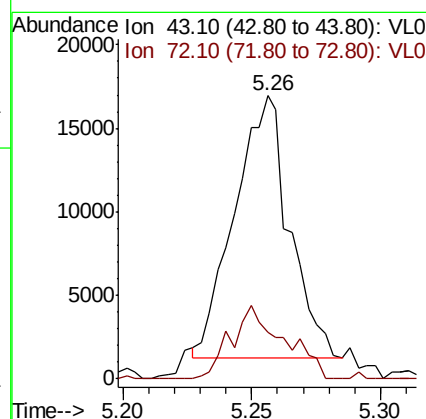
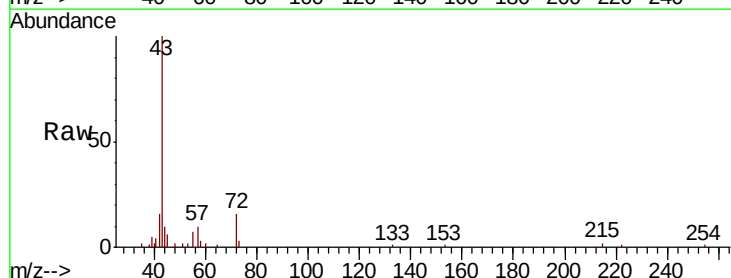
Manual Integrations
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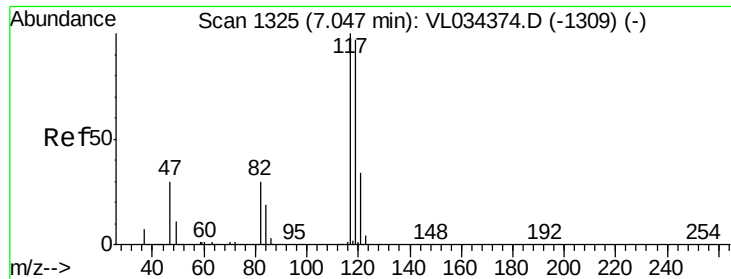
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#34
 2-Butanone
 Concen: 0.151 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.1	17.0	25.6





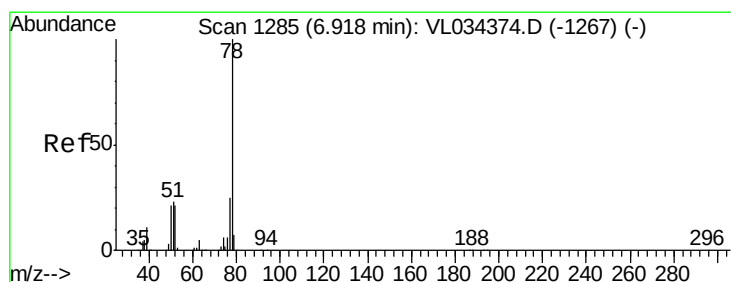
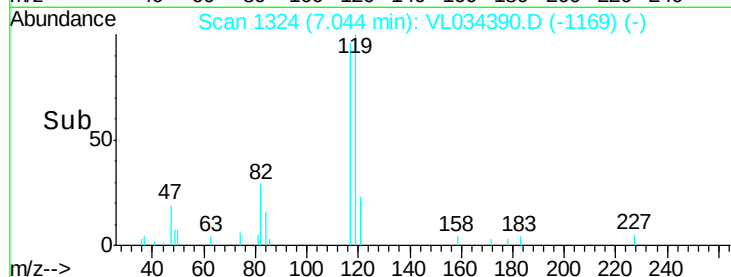
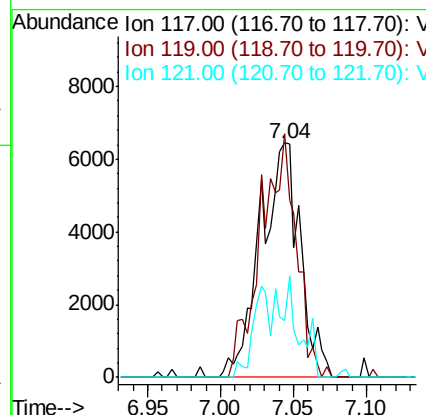
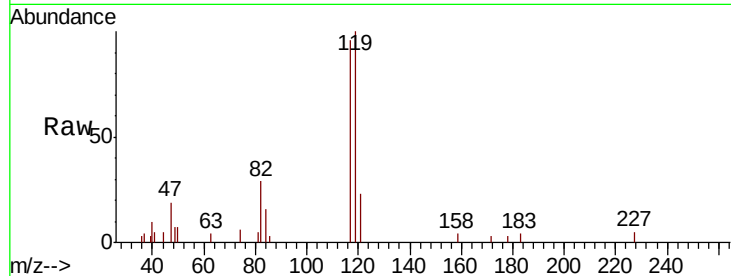
#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	103.9	77.3	115.9
121	24.1	27.4	41.2#

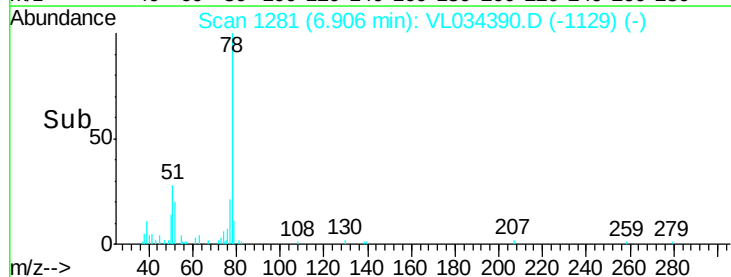
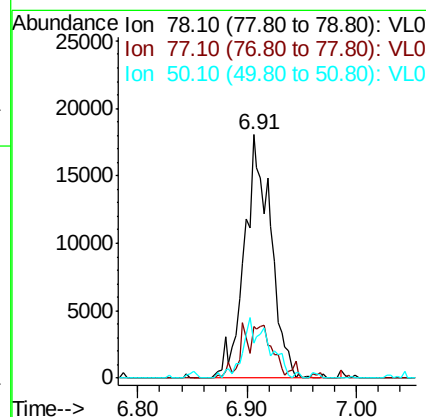
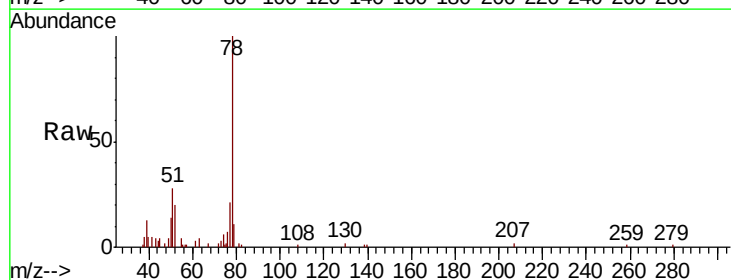
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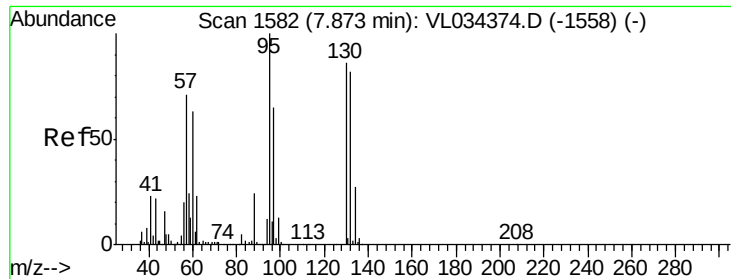
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#36
Benzene
Concen: 0.162 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	20.2	30.4
50	14.3	17.1	25.7#





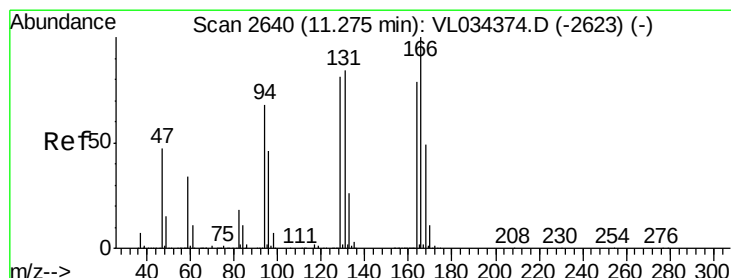
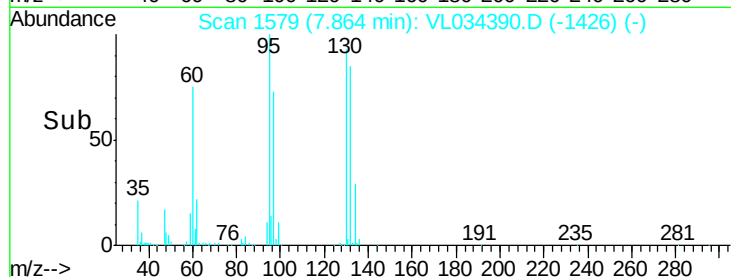
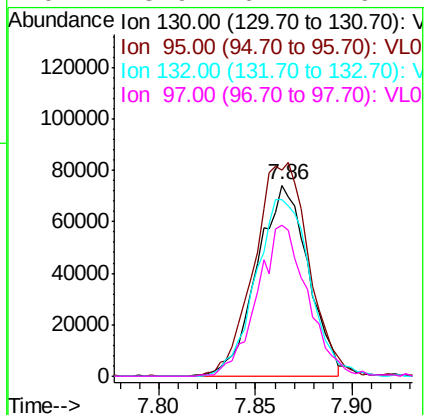
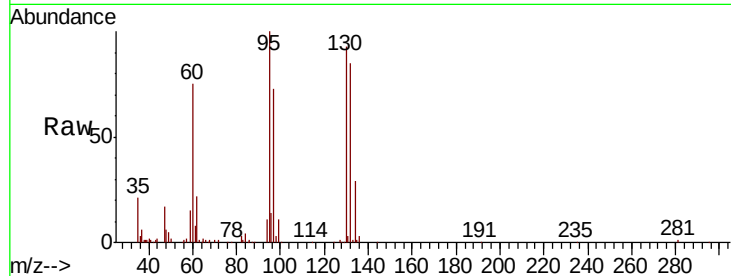
#38
 Trichloroethene
 Concen: 1.769 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		136468		
95	107.9	93.4	140.0		
132	92.1	76.4	114.6		
97	78.9	61.1	91.7		

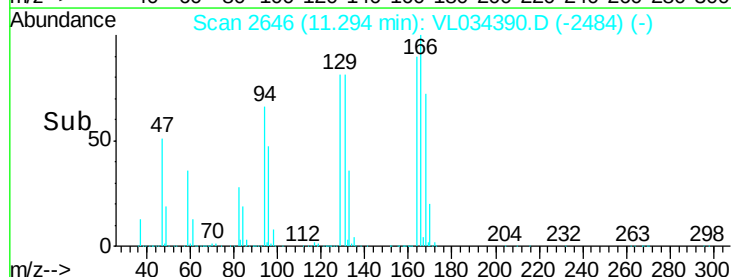
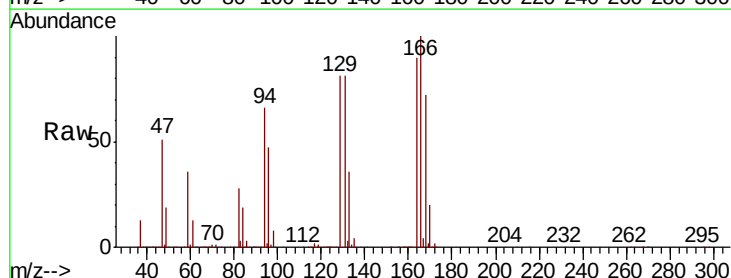
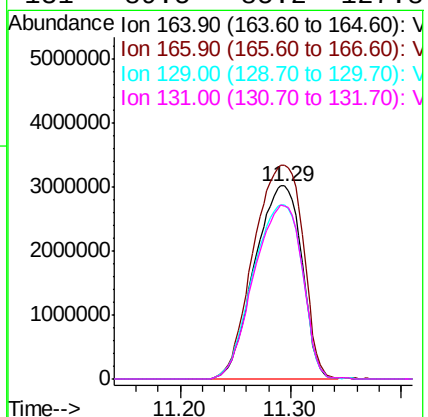
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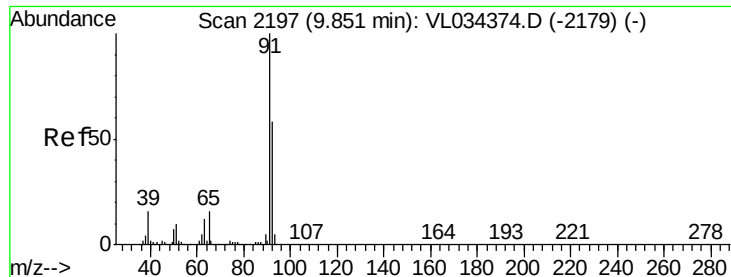
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#52
 Tetrachloroethene
 Concen: 109.612 ppbv
 RT: 11.29 min Scan# 2646
 Delta R.T. 0.02 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		8916431		
166	110.5	101.7	152.5		
129	90.0	82.6	123.8		
131	89.5	85.2	127.8		





#53

Toluene

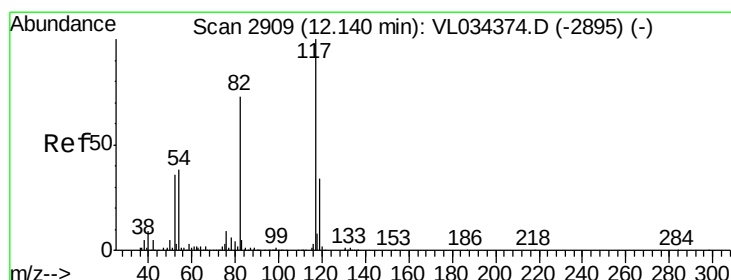
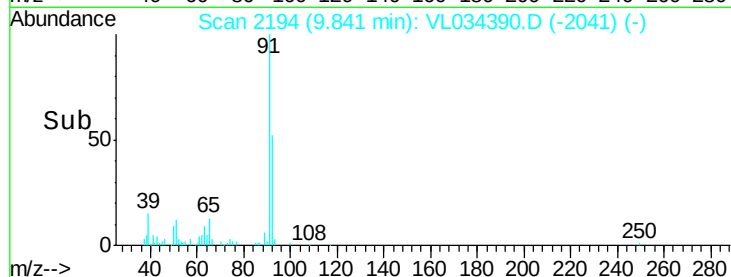
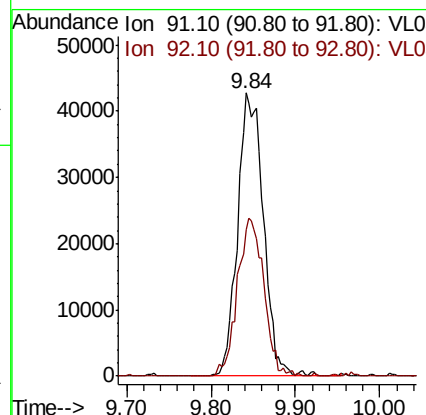
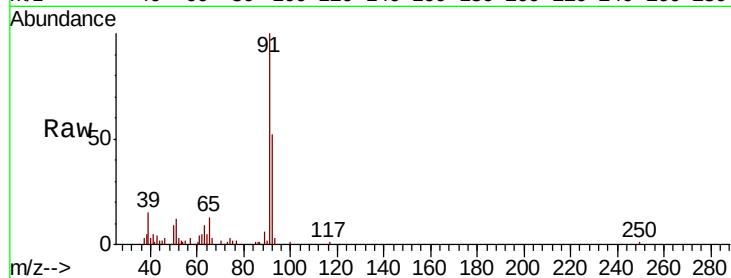
Concen: 0.421 ppbv m
RT: 9.84 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 91 Resp: 89973
Ion Ratio Lower Upper
91 100
92 57.3 47.9 71.9

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11/20/2019 3:54:02 PM

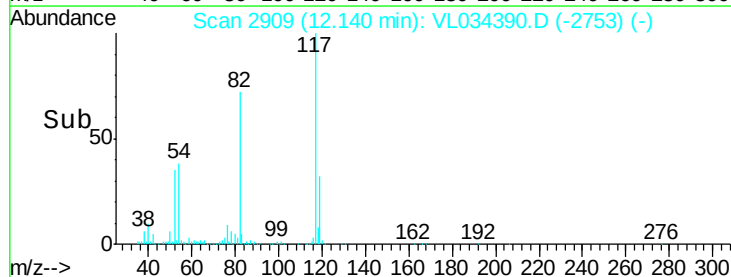
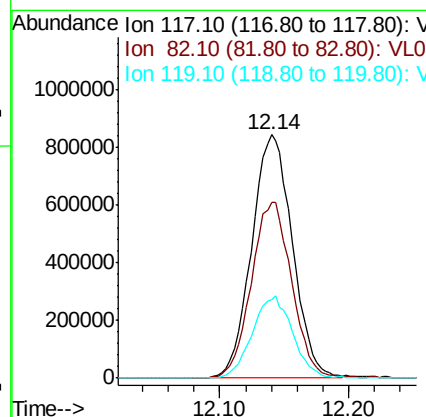
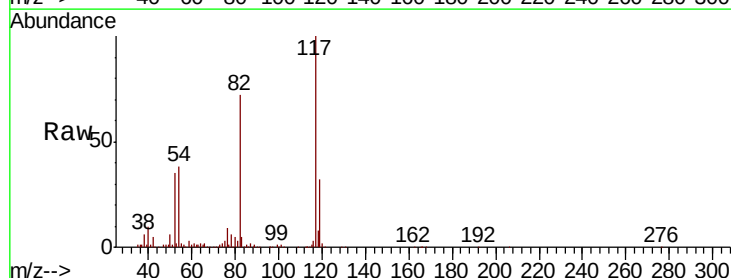


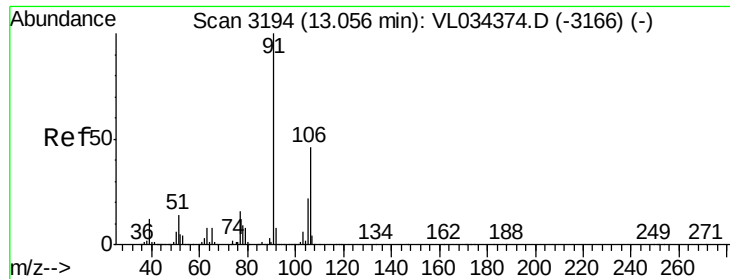
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL034390.D
Acq: 19 Nov 2019 22:16

Tgt Ion: 117 Resp: 1853422
Ion Ratio Lower Upper
117 100
82 72.1 57.5 86.3
119 33.3 25.4 38.2





#59

m/p-Xylene

Concen: 0.125 ppbv m

RT: 13.03 min Scan# 3187

Delta R.T. -0.02 min

Lab File: VL034390.D

Acq: 19 Nov 2019 22:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 31065

Ion Ratio Lower Upper

91 100

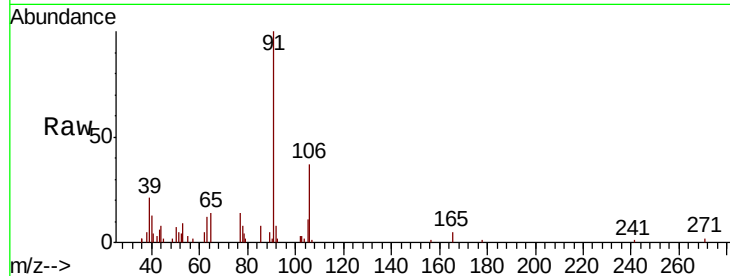
106 0.0 34.6 51.8#

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12000

10000

8000

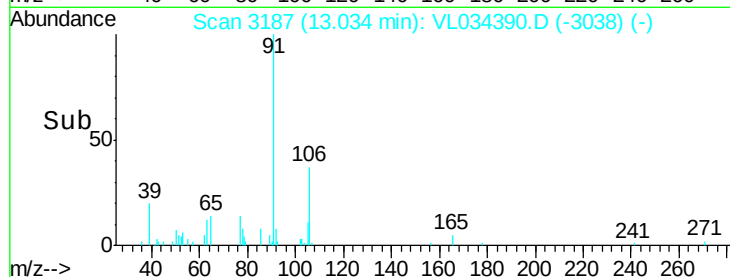
6000

4000

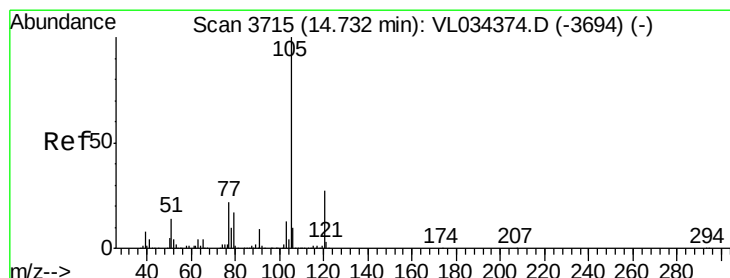
2000

0

Time-->



Time-->



#62

Isopropylbenzene

Concen: 0.137 ppbv m

RT: 14.72 min Scan# 3712

Delta R.T. -0.01 min

Lab File: VL034390.D

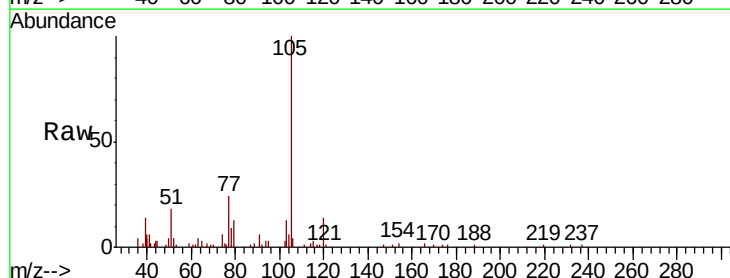
Acq: 19 Nov 2019 22:16

Tgt Ion:105 Resp: 44688

Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

25000

20000

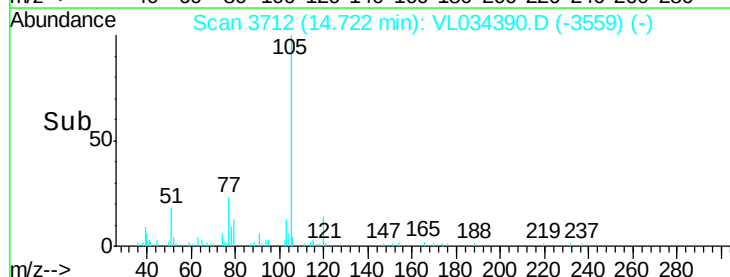
15000

10000

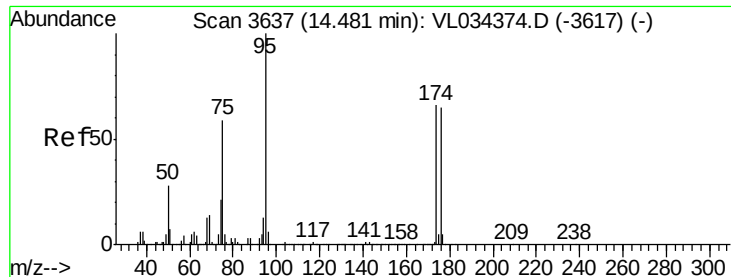
5000

0

Time-->



Time-->



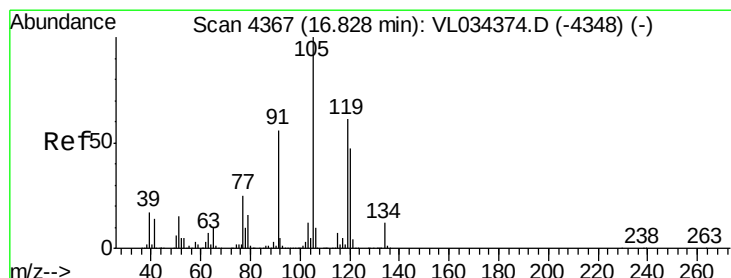
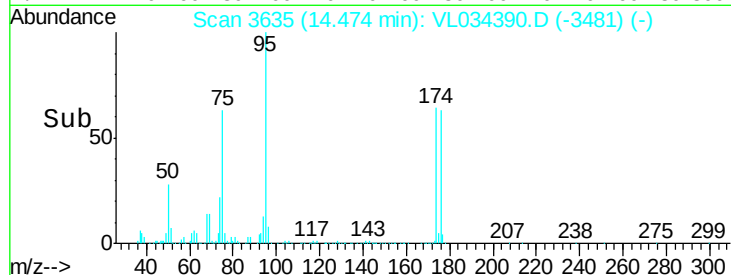
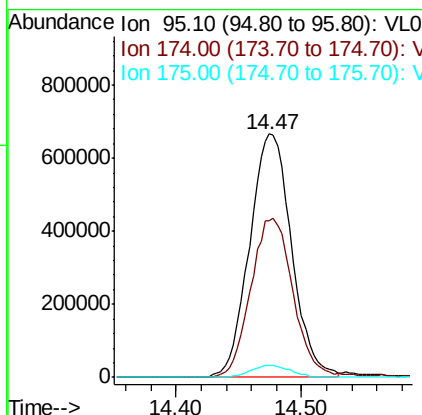
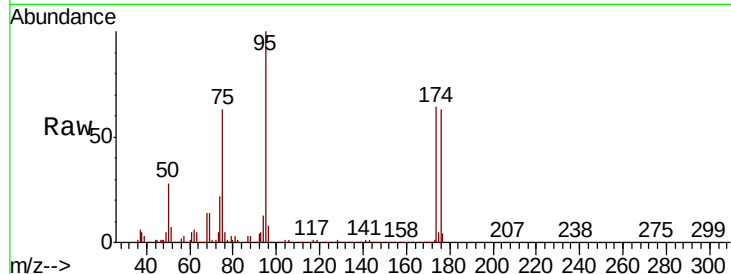
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.953 ppbv
 RT: 14.47 min Scan# 3635
 Delta R.T. -0.01 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion: 95 Resp: 1551868
 Ion Ratio Lower Upper
 95 100
 174 67.1 52.2 78.2
 175 4.7 3.8 5.8

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 11/20/2019 3:54:02 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.201 ppbv
 RT: 16.82 min Scan# 4366
 Delta R.T. -0.00 min
 Lab File: VL034390.D
 Acq: 19 Nov 2019 22:16

Tgt Ion: 105 Resp: 59497
 Ion Ratio Lower Upper
 105 100
 120 36.6 37.4 56.0#
 91 19.1 46.3 69.5#
 77 18.6 20.6 30.8#

