

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034522.D
 Acq On : 30 Dec 2019 21:50
 Operator : SY/AP
 Sample : K6388-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

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Quant Time: Dec 31 05:45:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 05:45:54 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

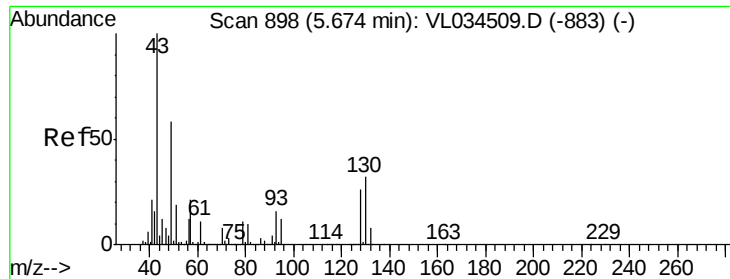
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	875245	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1743662	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1643869	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1402964	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	88953	0.644	ppbv #	85
3) Chlorodifluoromethane	2.96	51	30448m	0.292	ppbv	
4) Chloromethane	3.11	50	25573	0.413	ppbv	99
7) Chloroethane	3.54	64	3268	0.155	ppbv	94
9) Propene	2.99	41	38095m	0.948	ppbv	
11) Trichlorofluoromethane	3.93	101	41898	0.262	ppbv	93
13) Ethanol	3.60	45	22923m	2.055	ppbv	
15) Acetone	3.84	43	212170	1.661	ppbv	96
18) 1,1-Dichloroethene	4.28	96	6527	0.147	ppbv	84
19) Isopropyl Alcohol	3.98	45	24578m	0.297	ppbv	
20) Methylene Chloride	4.33	84	21298	0.424	ppbv #	91
24) 1,1-Dichloroethane	5.00	63	31101	0.263	ppbv #	93
26) Hexane	5.68	57	17597m	0.209	ppbv	
32) 1,1,1-Trichloroethane	6.53	97	4163m	0.028	ppbv	
35) Carbon Tetrachloride	7.03	117	10934m	0.069	ppbv	
36) Benzene	6.91	78	17319m	0.114	ppbv	
53) Toluene	9.84	91	19643m	0.118	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

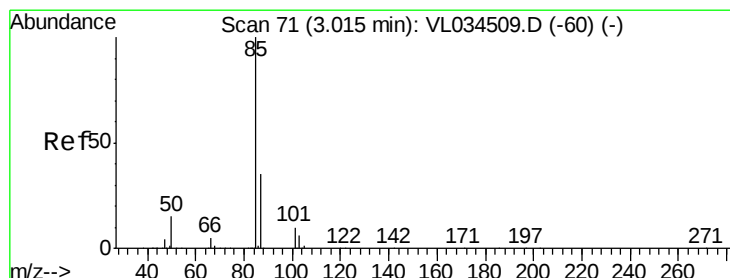
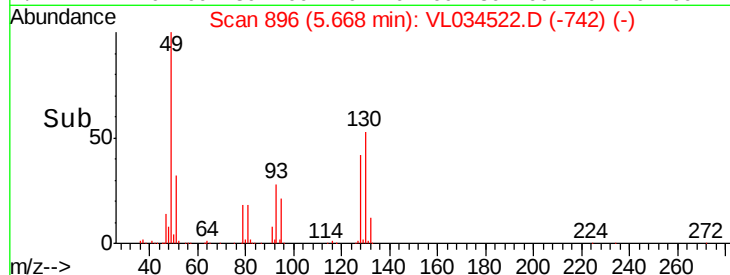
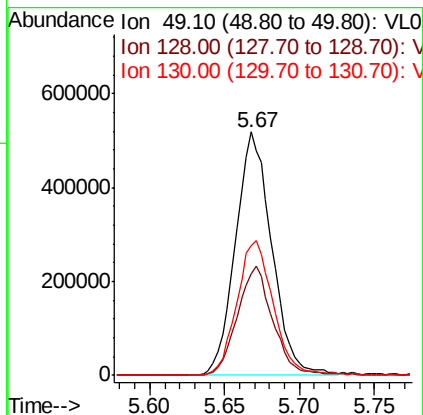
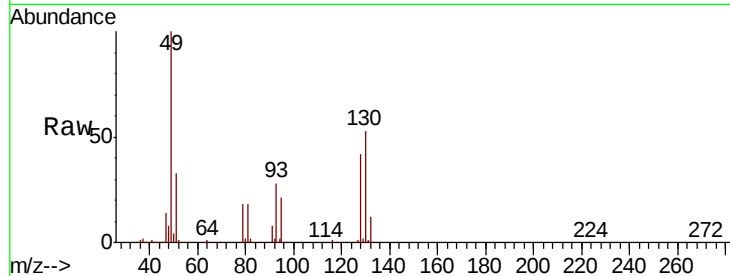
ClientSampled :

MID

Tot Ion:	49	Resp:	875245
Ion Ratio	Lower	Upper	
49	100		
128	44.5	22.4	67.2
130	55.9	28.3	85.0

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#2

Dichlorodifluoromethane

Concen: 0.644 ppbv

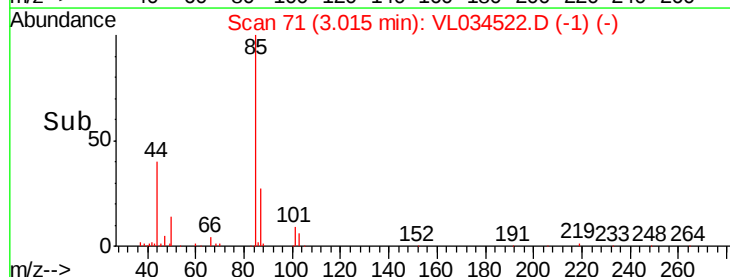
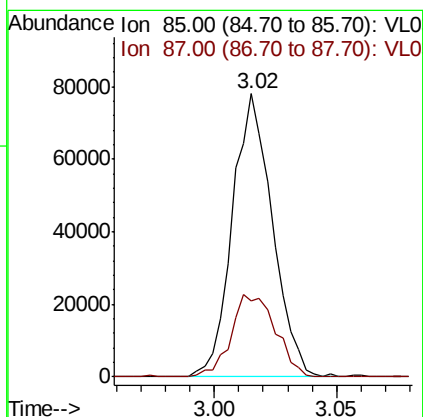
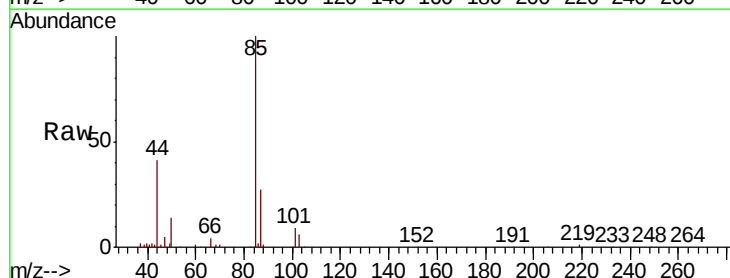
RT: 3.02 min Scan# 71

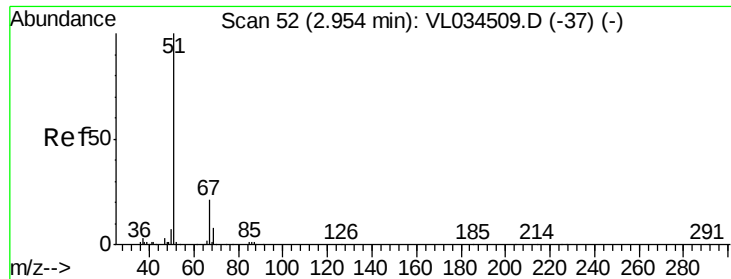
Delta R.T. 0.00 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Tgt Ion:	85	Resp:	88953
Ion Ratio	Lower	Upper	
85	100		
87	26.4	27.9	41.9#





#3

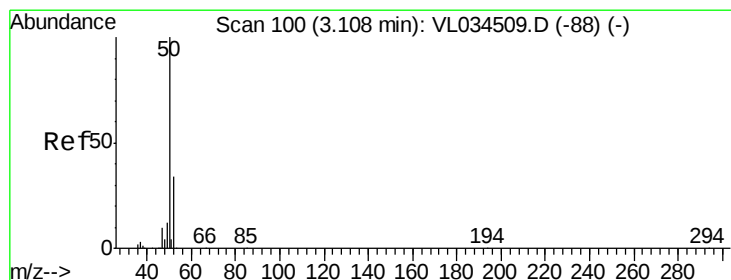
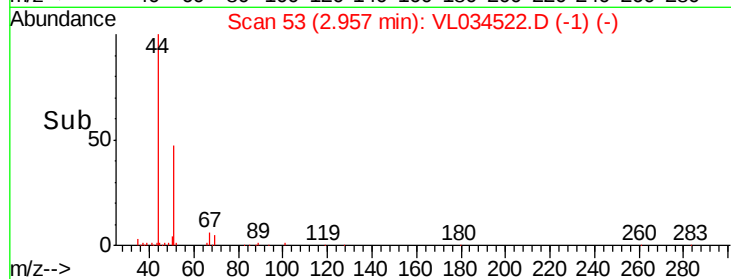
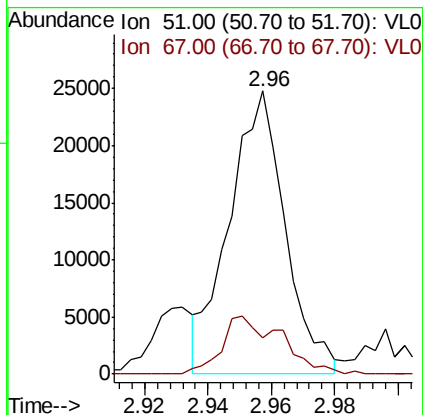
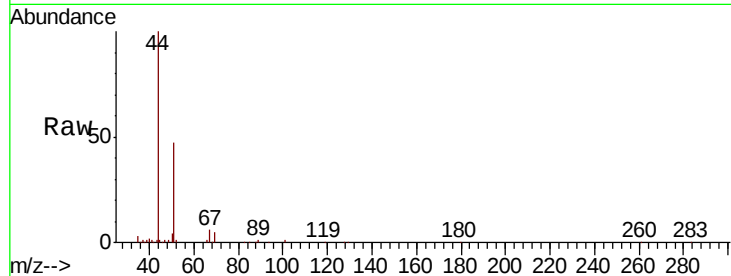
Chlorodifluoromethane
 Concen: 0.292 ppbv
 RT: 2.96 min Scan# 53
 Delta R.T. 0.00 min
 Lab File: VL034522.D
 Acq: 30 Dec 2019 21:50

Instrument :
 MSVOA_L
 ClientSampled :
 MID

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.9	16.8	25.2

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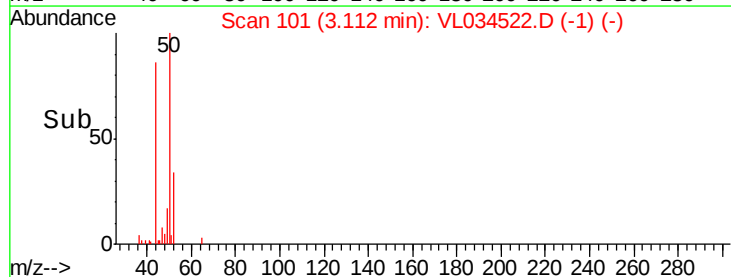
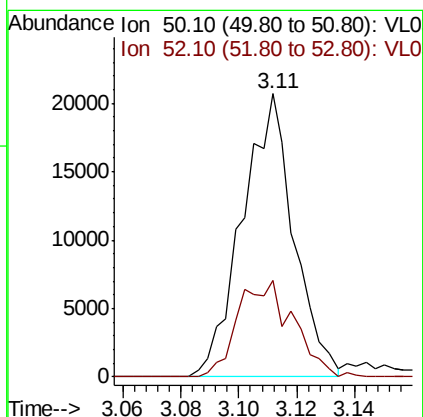
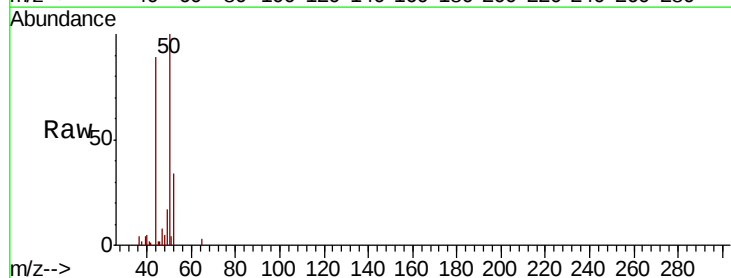
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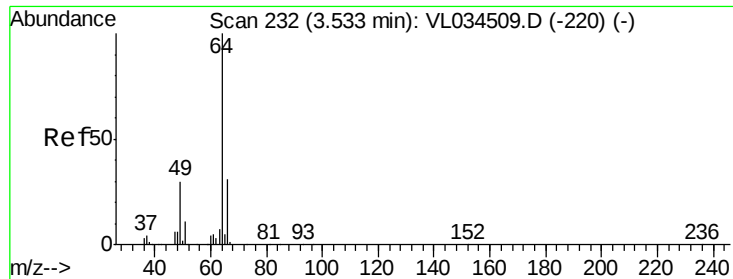


#4

Chloromethane
 Concen: 0.413 ppbv
 RT: 3.11 min Scan# 101
 Delta R.T. 0.00 min
 Lab File: VL034522.D
 Acq: 30 Dec 2019 21:50

Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.2	27.6	41.4





#7

Chloroethane

Concen: 0.155 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

ClientSampled :

MID

Tot Ion: 64 Resp: 3268

Ion Ratio Lower Upper

64 100

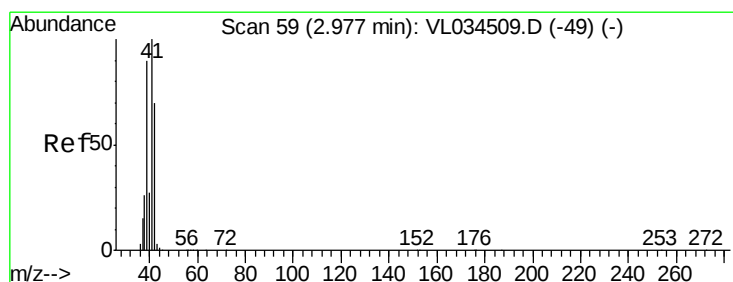
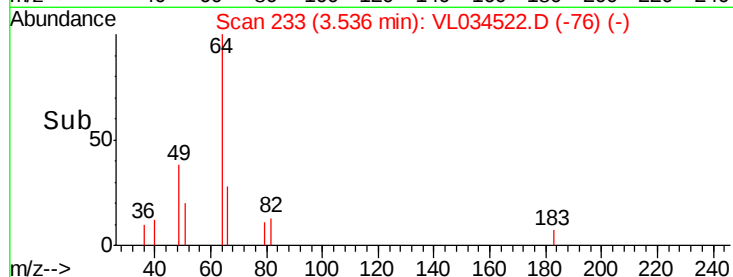
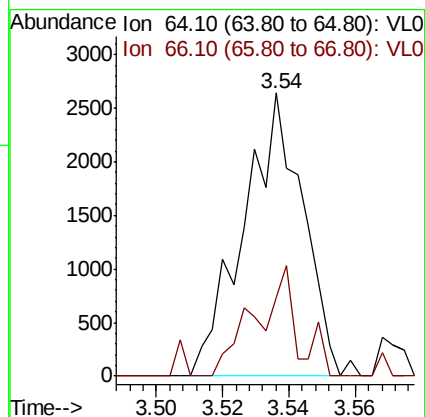
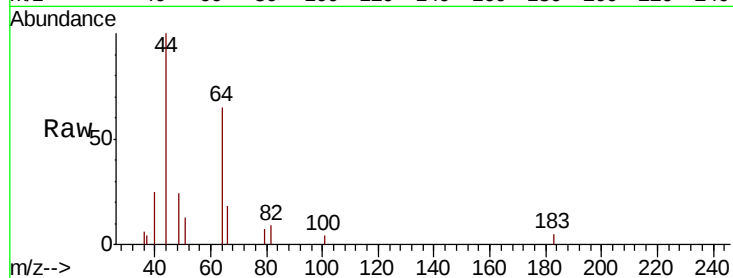
66 27.9 25.0 37.4

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#9

Propene

Concen: 0.948 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034522.D

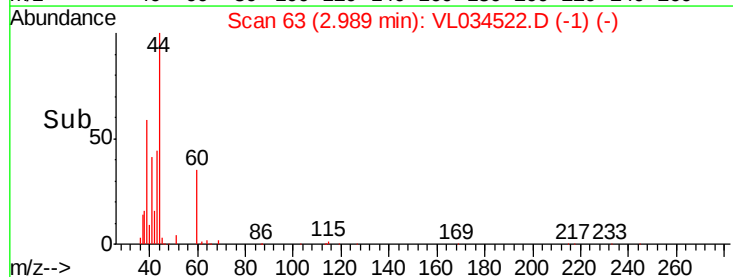
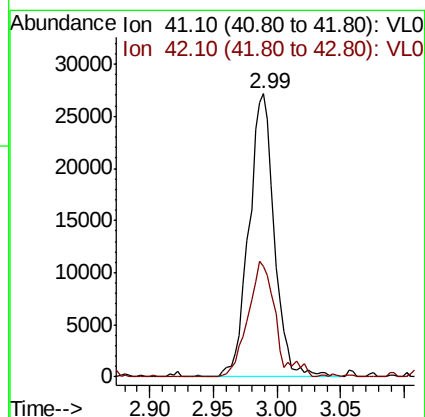
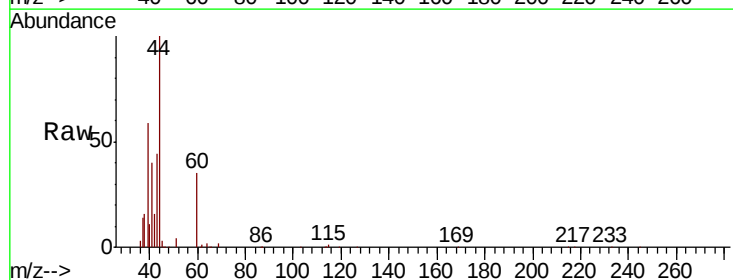
Acq: 30 Dec 2019 21:50

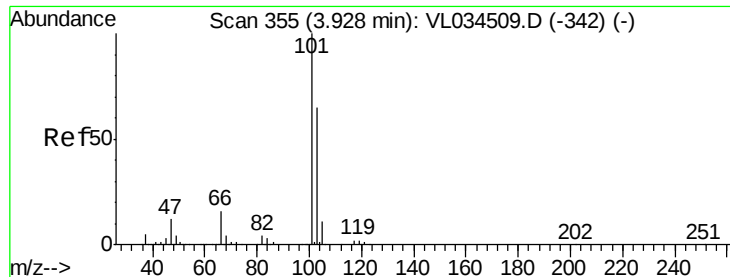
Tgt Ion: 41 Resp: 38095

Ion Ratio Lower Upper

41 100

42 44.2 55.8 83.6#





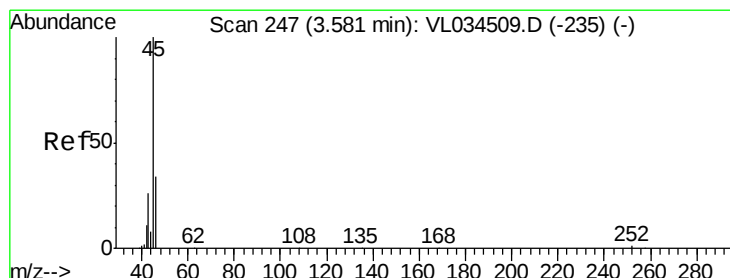
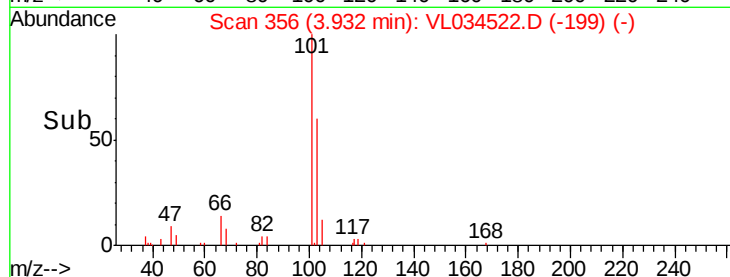
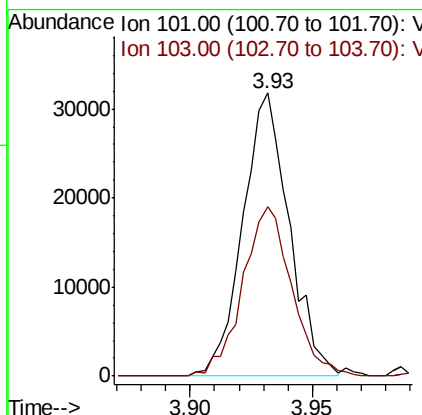
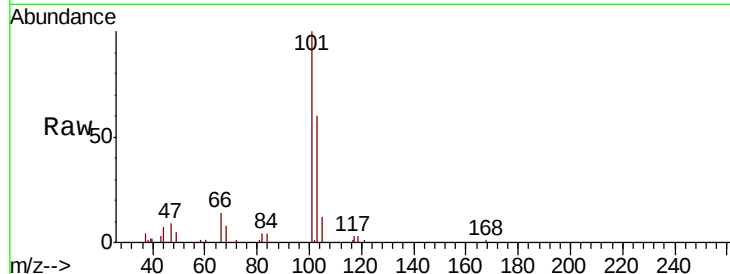
#11
 Trichlorofluoromethane
 Concen: 0.262 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL034522.D
 Acq: 30 Dec 2019 21:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.7	52.1	78.1

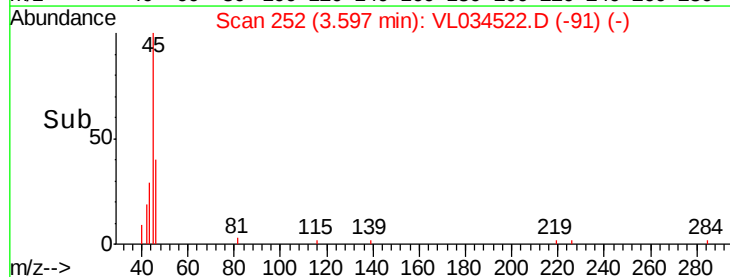
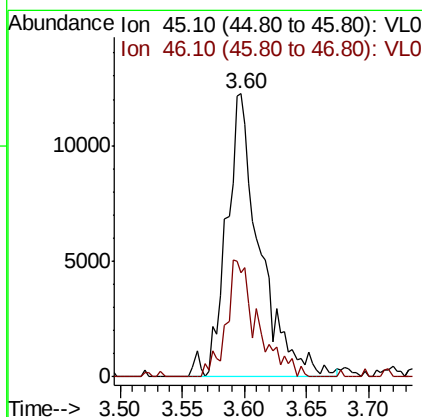
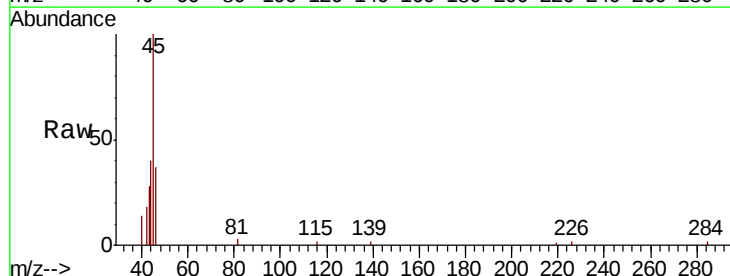
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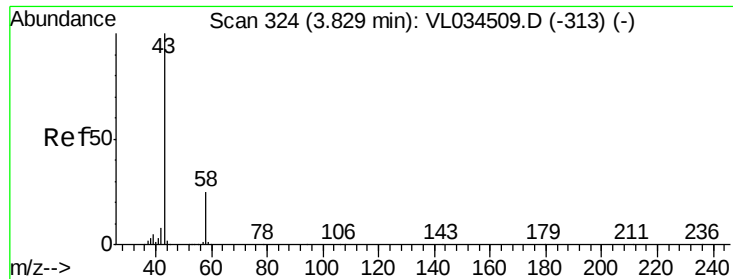
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#13
 Ethanol
 Concen: 2.055 ppbv m
 RT: 3.60 min Scan# 252
 Delta R.T. 0.02 min
 Lab File: VL034522.D
 Acq: 30 Dec 2019 21:50

Tgt Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.9	59.7#





#15

Acetone

Concen: 1.661 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 43 Resp: 212170

Ion Ratio Lower Upper

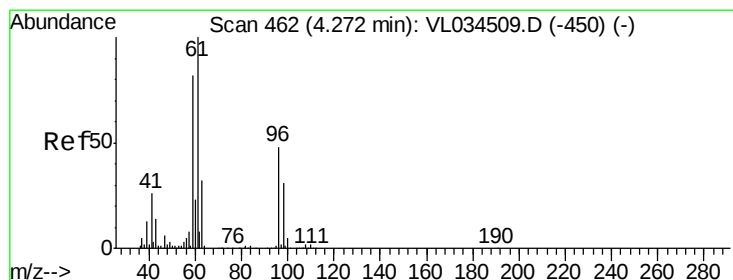
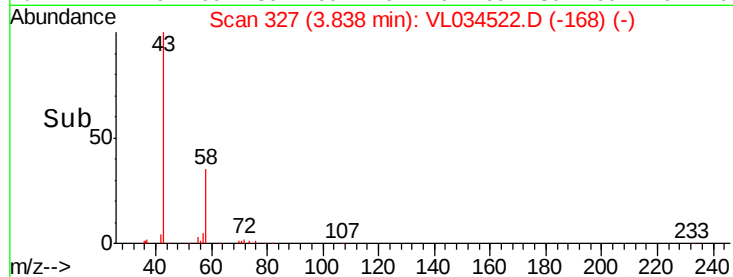
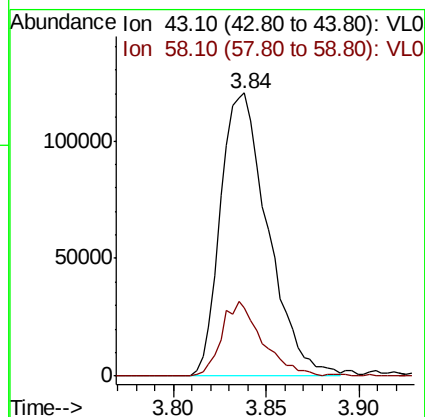
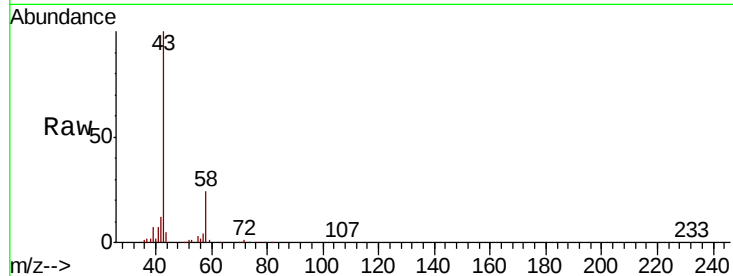
43 100

58 23.3 20.4 30.6

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1/2/2020 10:49:32 AM



#18

1,1-Dichloroethene

Concen: 0.147 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.00 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

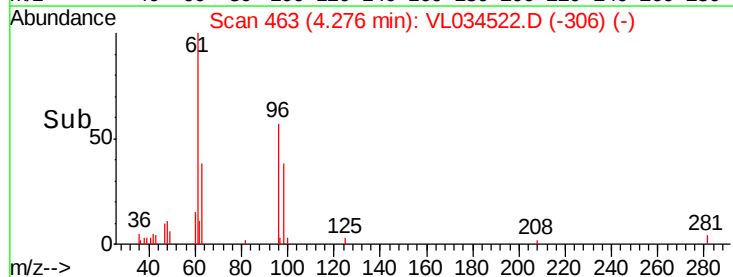
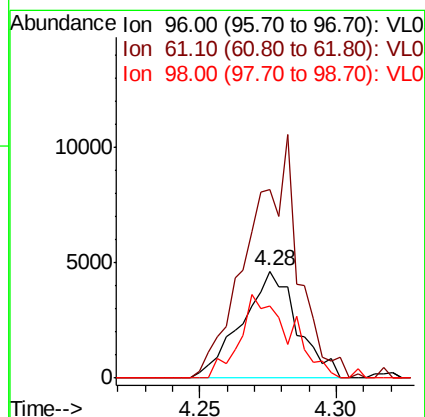
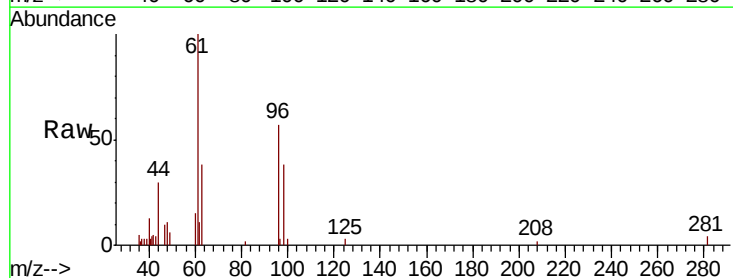
Tgt Ion: 96 Resp: 6527

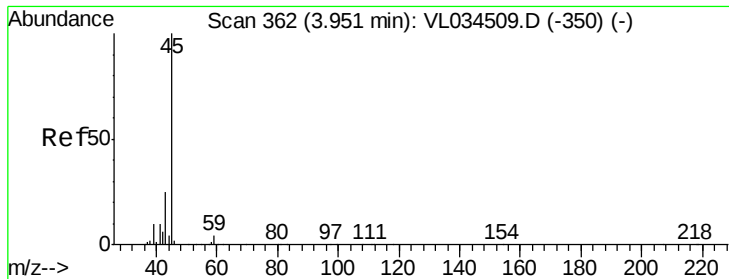
Ion Ratio Lower Upper

96 100

61 175.7 165.9 248.9

98 67.1 51.9 77.9





#19

Isopropyl Alcohol

Concen: 0.297 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 45 Resp: 24578

Ion Ratio Lower Upper

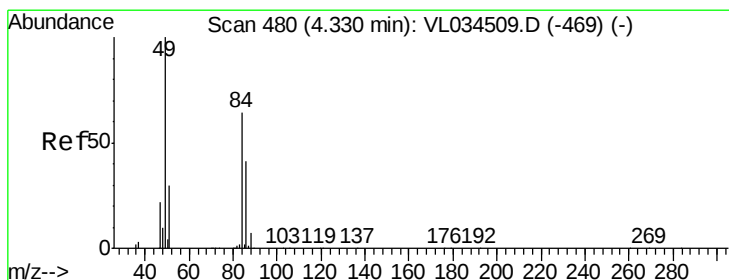
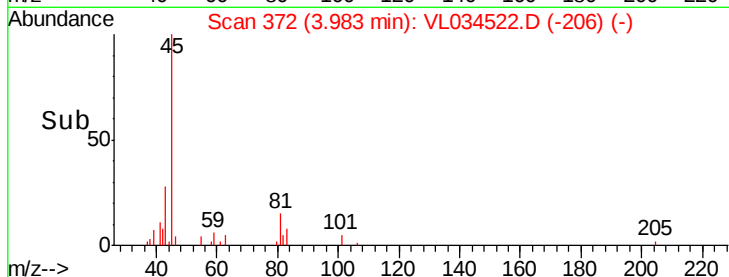
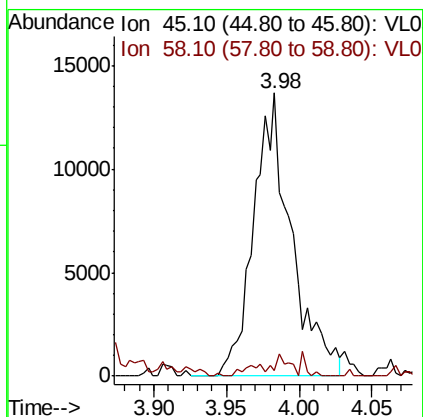
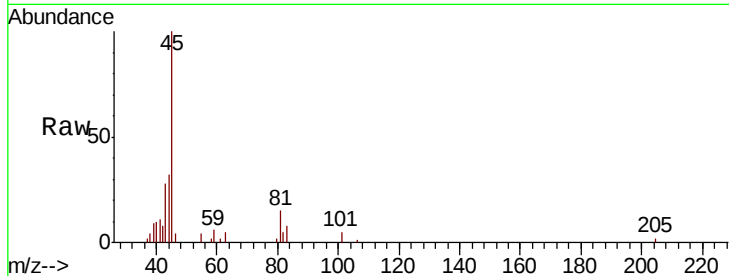
45 100

58 0.0 1.4 2.0#

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#20

Methylene Chloride

Concen: 0.424 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Tgt Ion: 84 Resp: 21298

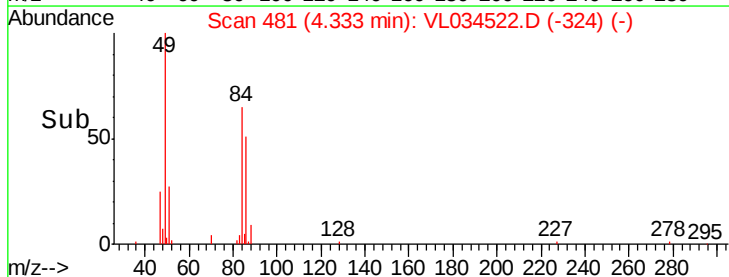
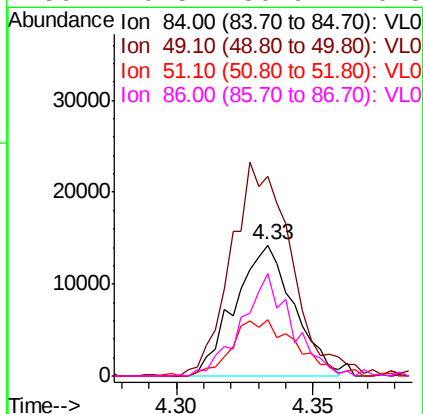
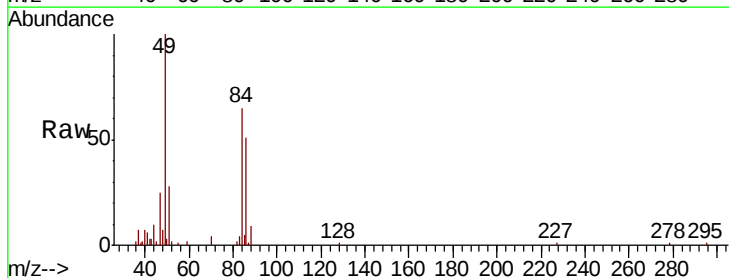
Ion Ratio Lower Upper

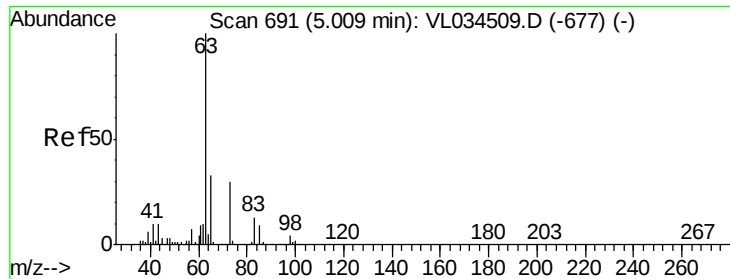
84 100

49 148.2 124.4 186.6

51 43.5 37.0 55.6

86 79.5 50.9 76.3#





#24

1,1-Dichloroethane

Concen: 0.263 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

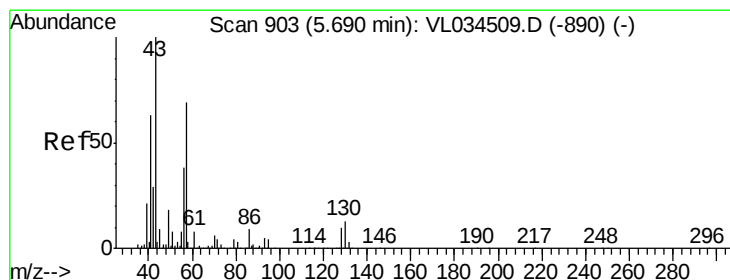
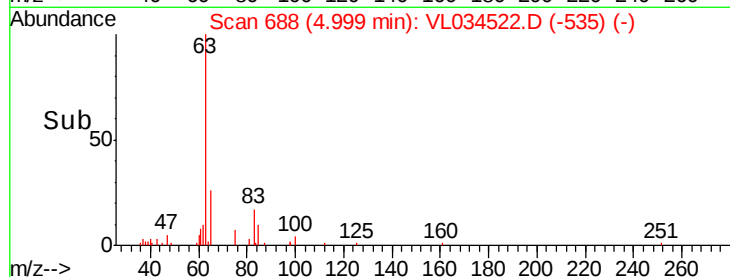
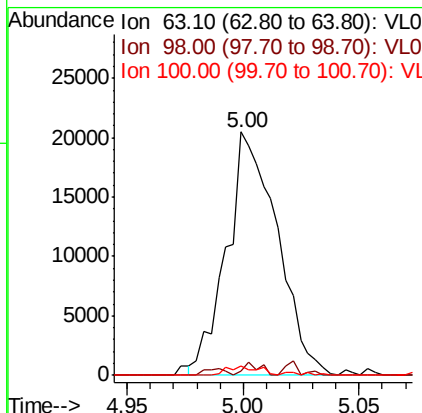
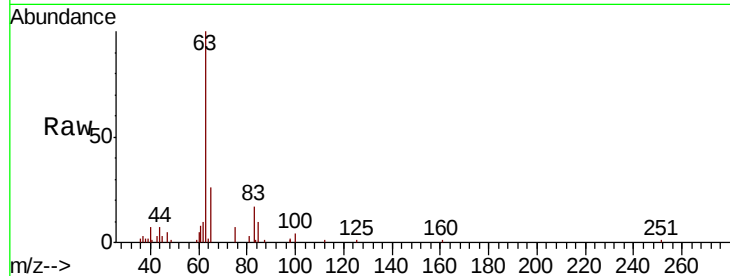
ClientSampled :

MID

Tot Ion:	63	Resp:	31101
Ion Ratio	Lower	Upper	
63	100		
98	1.6	2.1	6.3#
100	3.7	1.1	3.3#

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#26

Hexane

Concen: 0.209 ppbv m

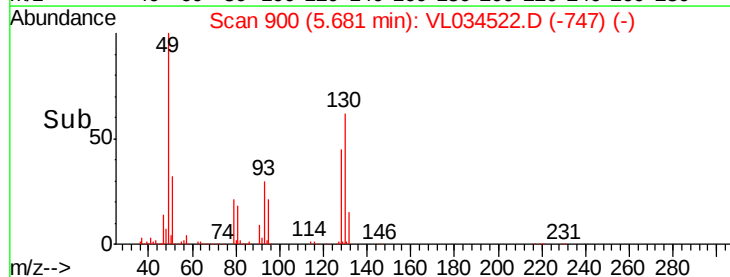
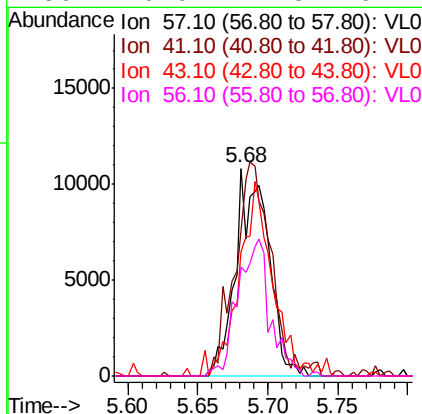
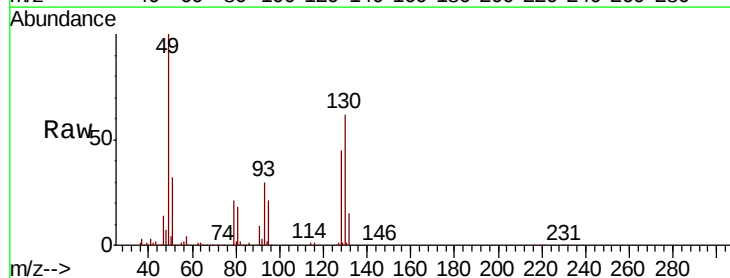
RT: 5.68 min Scan# 900

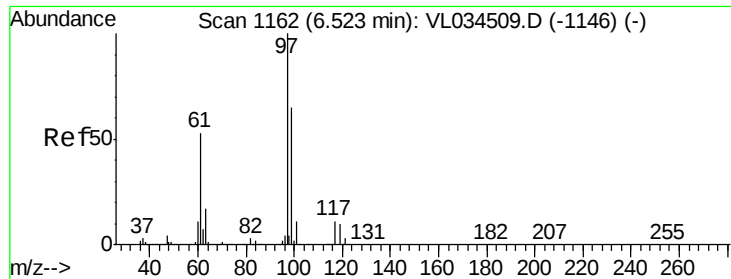
Delta R.T. -0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Tgt Ion:	57	Resp:	17597
Ion Ratio	Lower	Upper	
57	100		
41	0.0	75.3	112.9#
43	0.0	189.4	284.2#
56	0.0	42.8	64.2#





#32

1,1,1-Trichloroethane

Concen: 0.028 ppbv m

RT: 6.53 min Scan# 1164

Delta R.T. 0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Instrument :

MSVOA_L

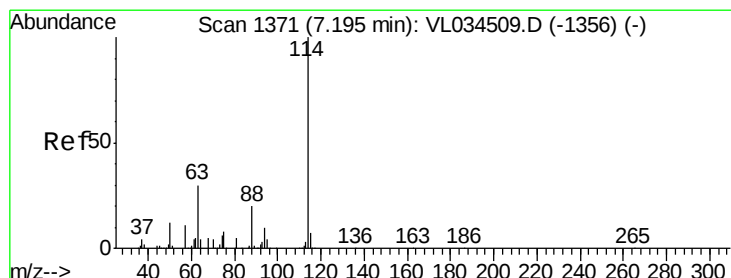
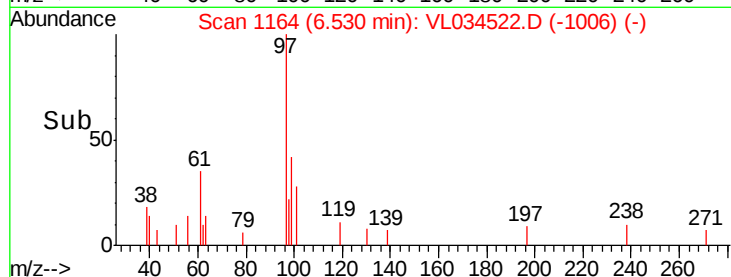
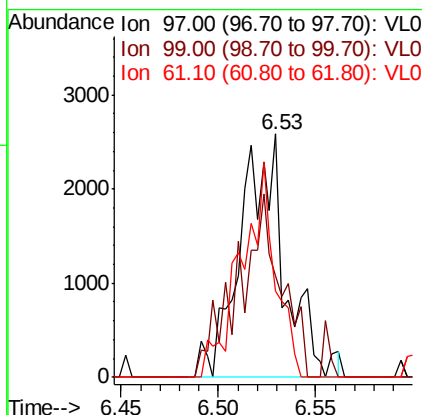
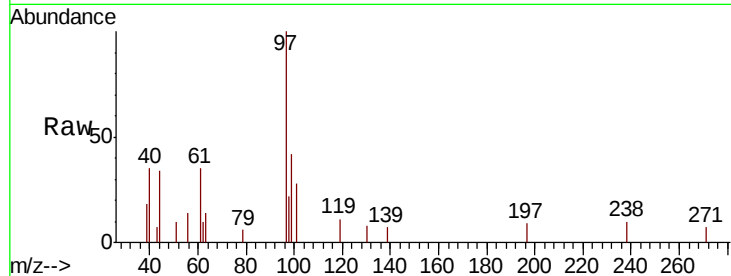
ClientSampled :

MID

Tot Ion:	97	Resp:	4163
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	0.0	42.9	64.3#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

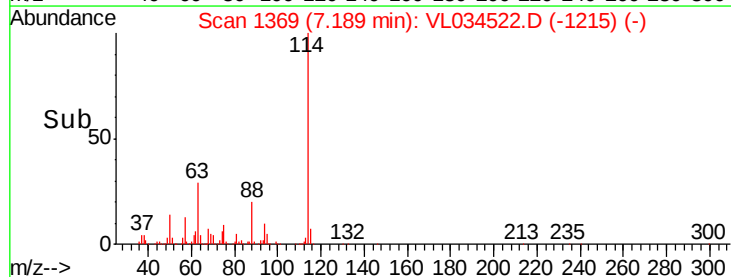
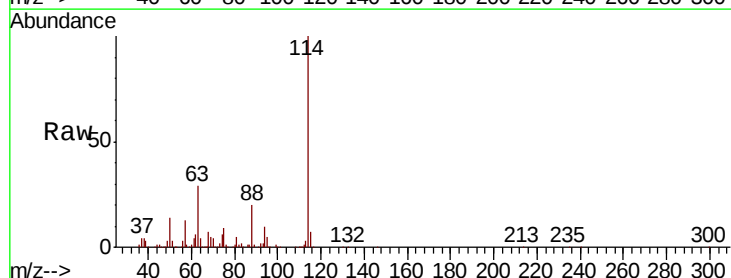
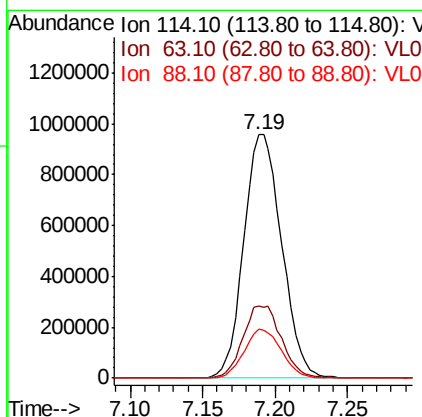
RT: 7.19 min Scan# 1369

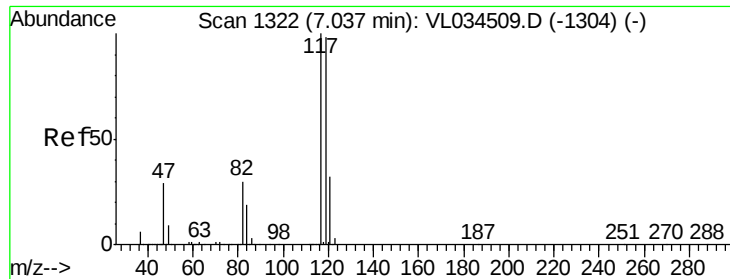
Delta R.T. -0.01 min

Lab File: VL034522.D

Acq: 30 Dec 2019 21:50

Tgt Ion:	114	Resp:	1743662
Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.1	36.1
88	19.7	15.7	23.5





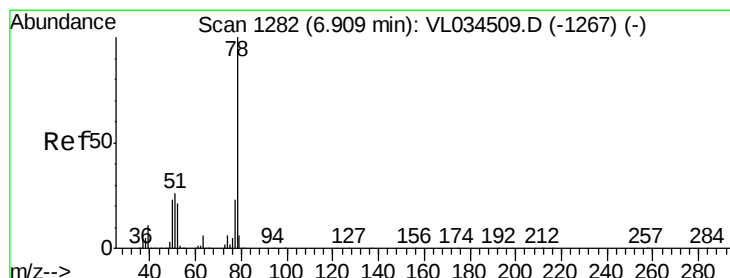
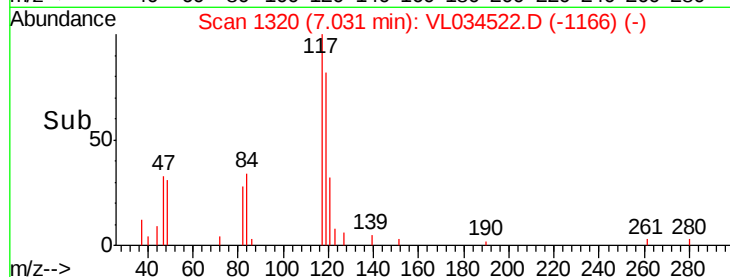
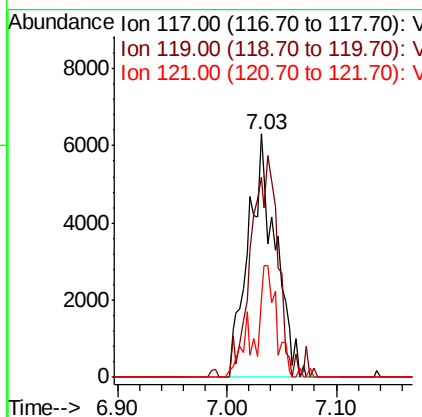
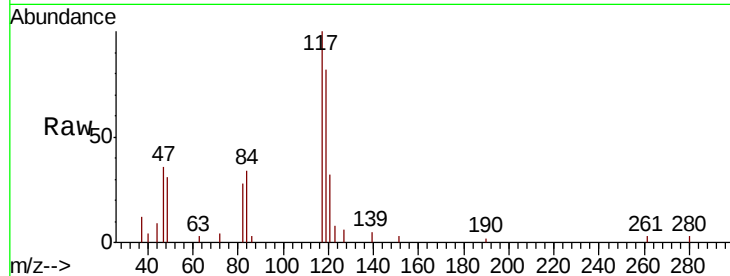
#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. -0.01 min
Lab File: VL034522.D
Acq: 30 Dec 2019 21:50

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.4	78.7	118.1
121	32.2	25.9	38.9

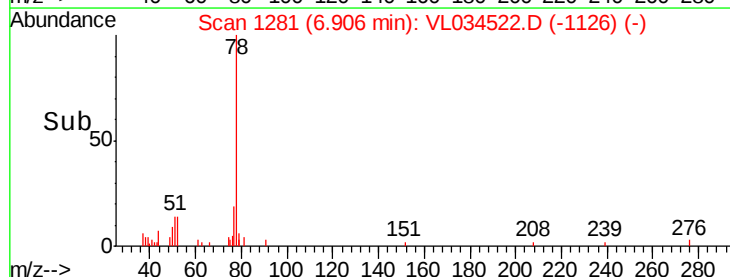
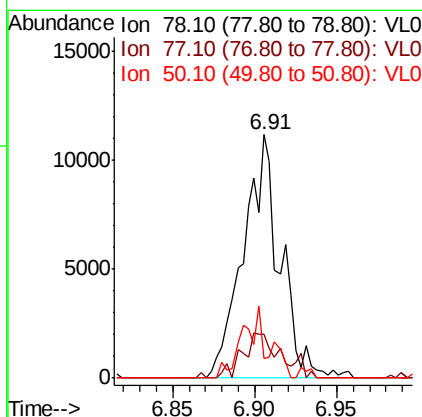
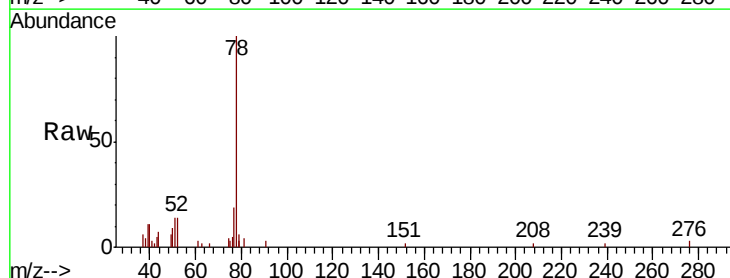
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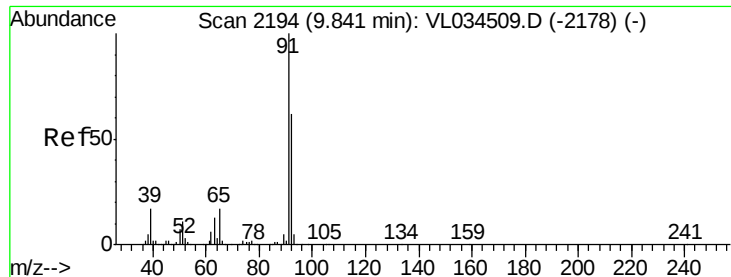
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#36
Benzene
Concen: 0.114 ppbv m
RT: 6.91 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VL034522.D
Acq: 30 Dec 2019 21:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.3	18.6	28.0
50	8.7	18.8	28.2#





#53

Toluene

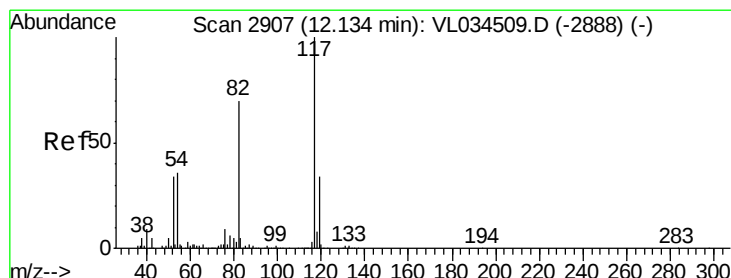
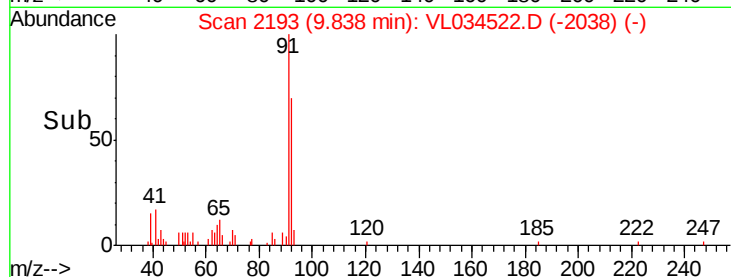
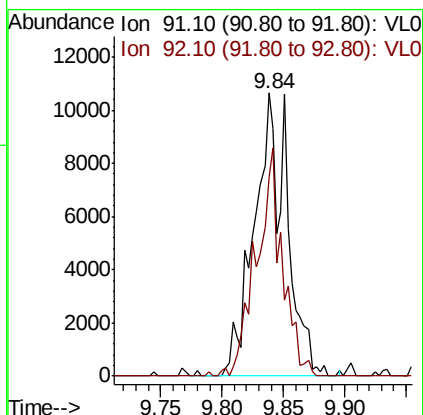
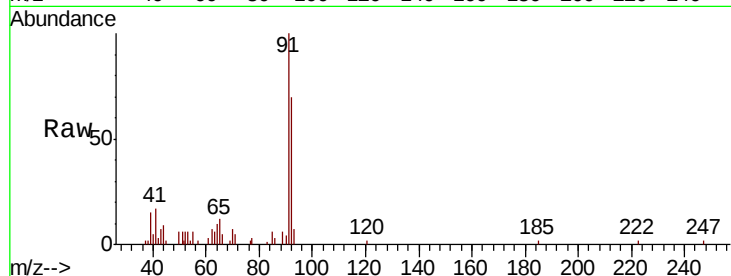
Concen: 0.118 ppbv m
RT: 9.84 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VL034522.D
Acq: 30 Dec 2019 21:50

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion: 91 Resp: 19643
Ion Ratio Lower Upper
91 100
92 63.9 48.4 72.6

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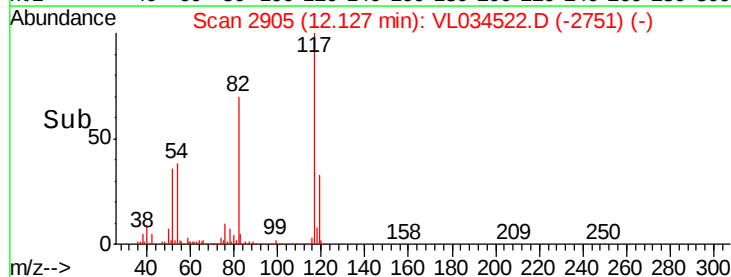
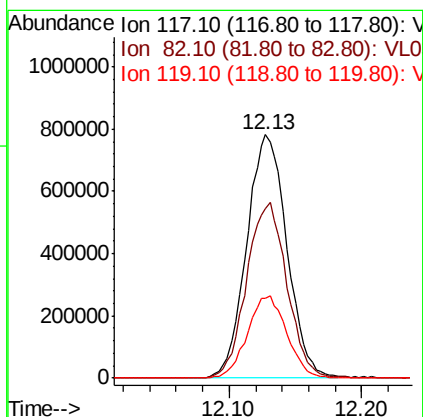
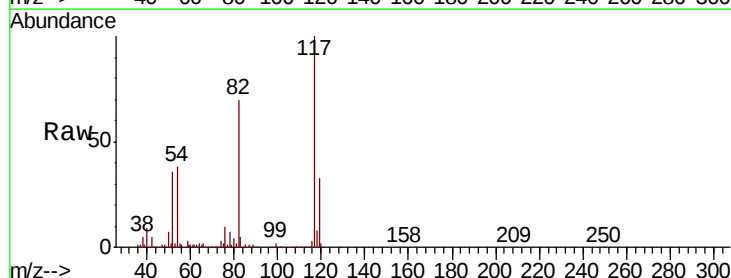


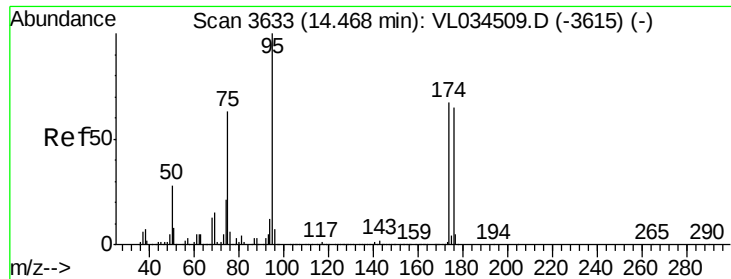
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL034522.D
Acq: 30 Dec 2019 21:50

Tgt Ion: 117 Resp: 1643869
Ion Ratio Lower Upper
117 100
82 72.7 56.2 84.4
119 33.3 27.1 40.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.228 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VL034522.D
 Acq: 30 Dec 2019 21:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion: 95 Resp: 1402964
 Ion Ratio Lower Upper
 95 100
 174 64.4 52.4 78.6
 175 4.6 3.9 5.9

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