

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034917.D
 Acq On : 17 Mar 2020 16:05
 Operator : SY/AP
 Sample : L1952-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:43 PM

Quant Time: Mar 18 07:18:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	899751	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1941809	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1898033	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1641312	11.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	29243	0.237	ppbv #	88
3) Chlorodifluoromethane	2.94	51	37426m	0.372	ppbv	
4) Chloromethane	3.10	50	35311	0.622	ppbv #	83
9) Propene	2.98	41	25530m	0.532	ppbv	
11) Trichlorofluoromethane	3.92	101	32741	0.250	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8884m	0.097	ppbv	
13) Ethanol	3.57	45	186379	12.775	ppbv	96
15) Acetone	3.82	43	643419	5.517	ppbv	99
19) Isopropyl Alcohol	3.94	45	78961m	1.072	ppbv	
20) Methylene Chloride	4.32	84	64559m	1.751	ppbv	
26) Hexane	5.67	57	367405	4.107	ppbv #	40
34) 2-Butanone	5.24	43	33819	0.262	ppbv	98
35) Carbon Tetrachloride	7.02	117	8878	0.074	ppbv	91
36) Benzene	6.89	78	36118m	0.209	ppbv	
53) Toluene	9.82	91	99618m	0.498	ppbv	

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

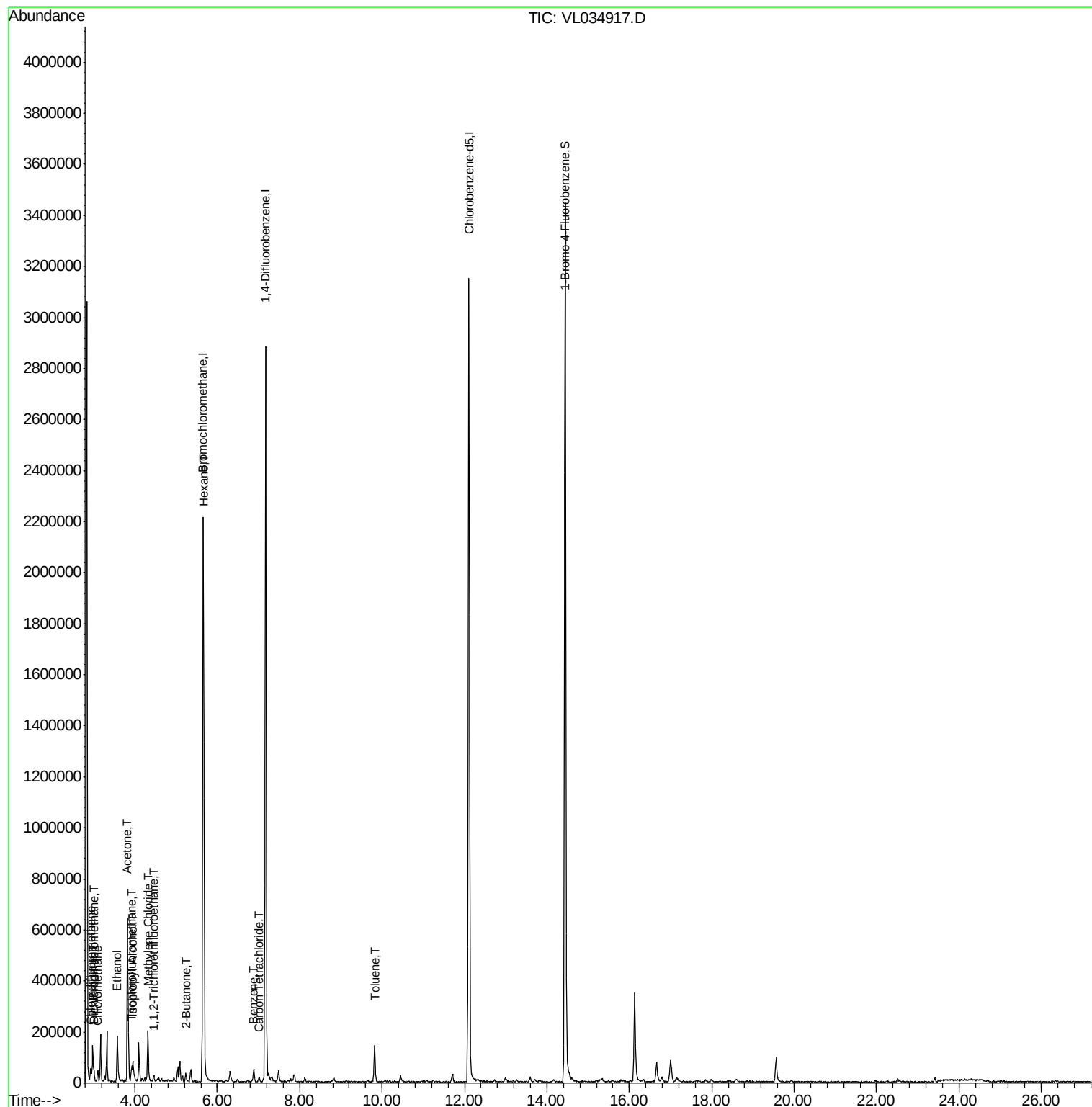
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031720\
Data File : VL034917.D
Acq On : 17 Mar 2020 16:05
Operator : SY/AP
Sample : L1952-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

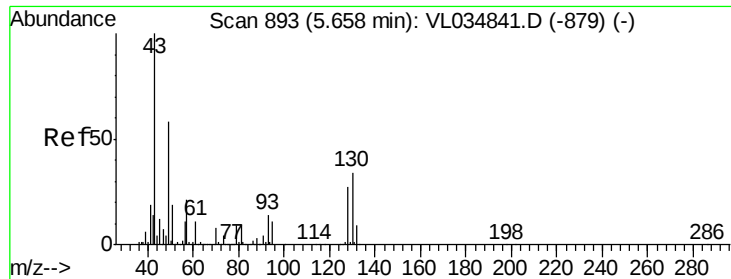
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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Quant Time: Mar 18 07:18:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034917.D

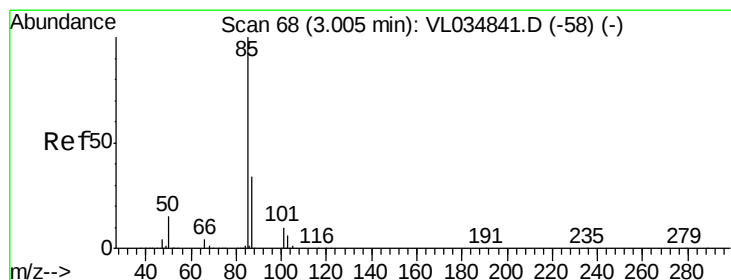
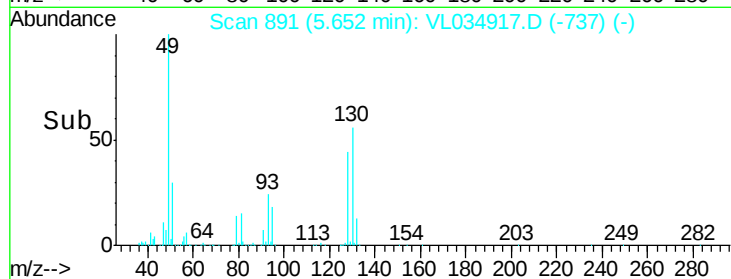
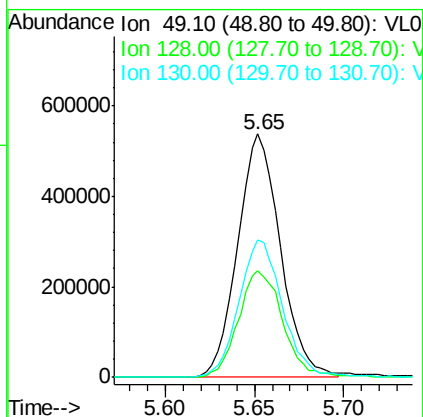
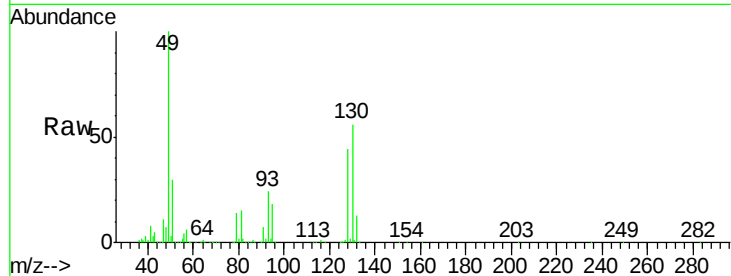
Acq: 17 Mar 2020 16:05

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.4	70.3
130	58.3	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.237 ppbv

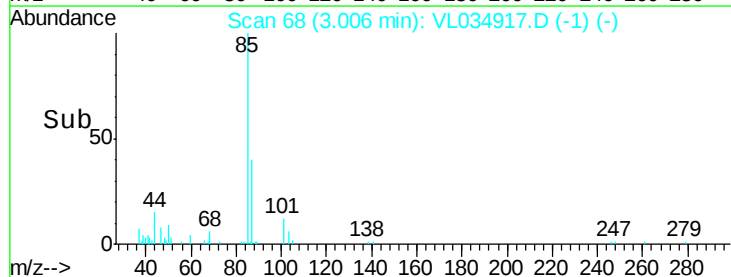
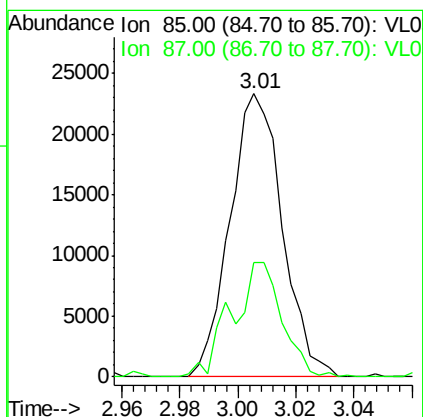
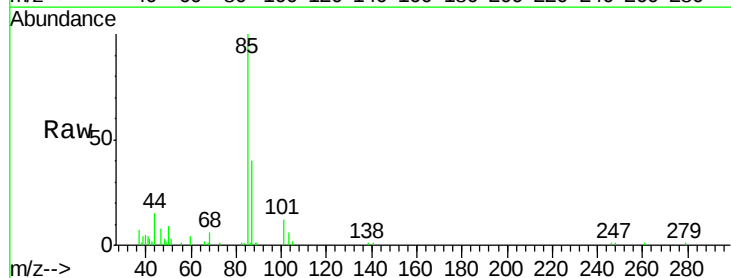
RT: 3.01 min Scan# 68

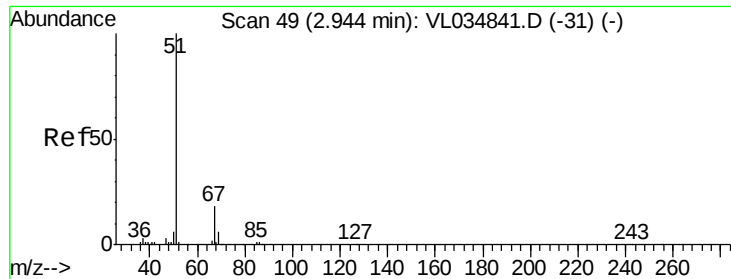
Delta R.T. 0.00 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
85	100		
87	40.5	26.9	40.3





#3

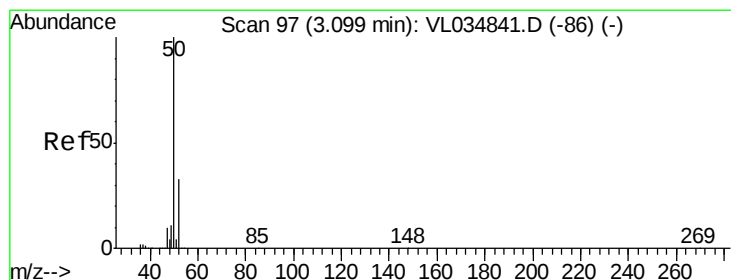
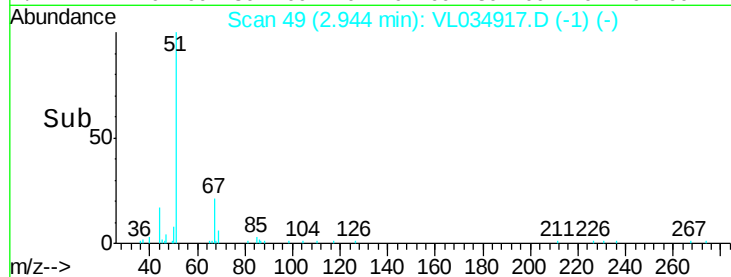
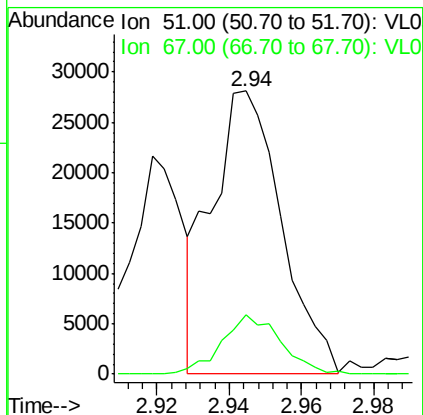
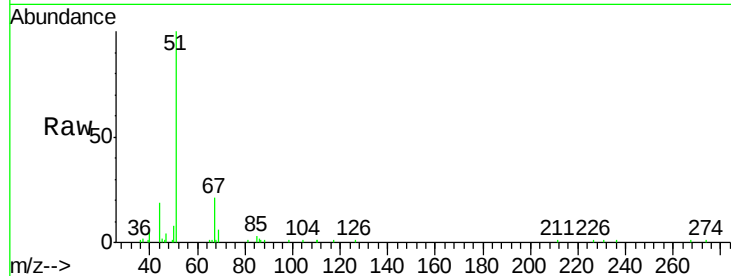
Chlorodifluoromethane
 Concen: 0.372 ppbv
 RT: 2.94 min Scan# 49
 Delta R.T. 0.00 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	17.7	14.3	21.5

Manual Integrations
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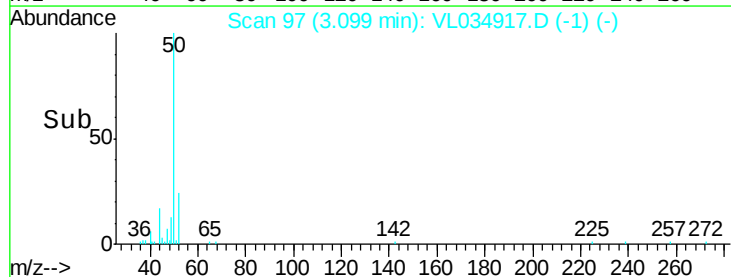
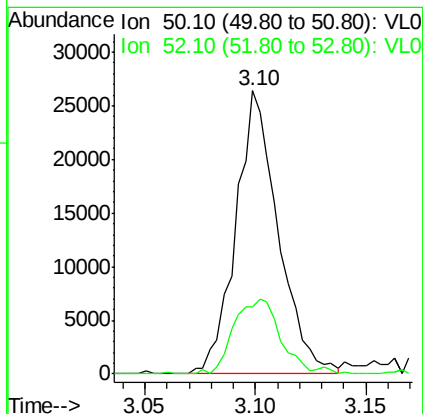
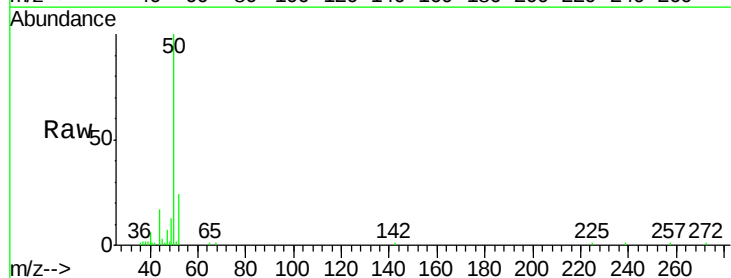
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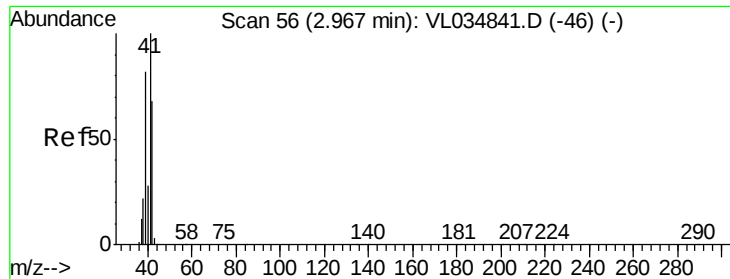


#4

Chloromethane
 Concen: 0.622 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Tgt Ion	Ion	Ratio	Lower	Upper
50	50	100		
52	52	23.6	26.8	40.2





#9

Propene

Concen: 0.532 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 41 Resp: 25530

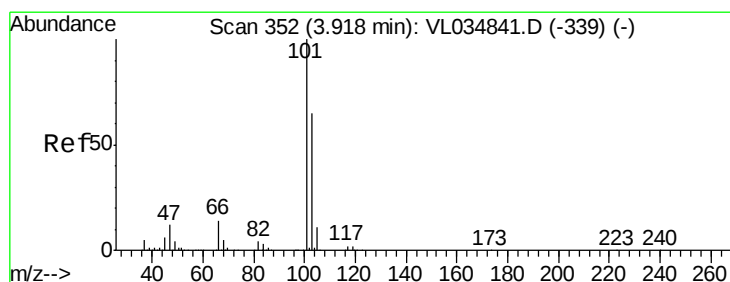
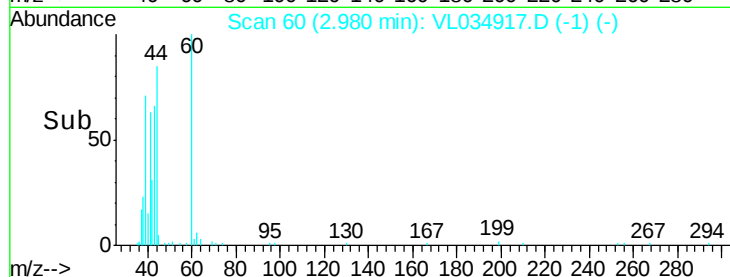
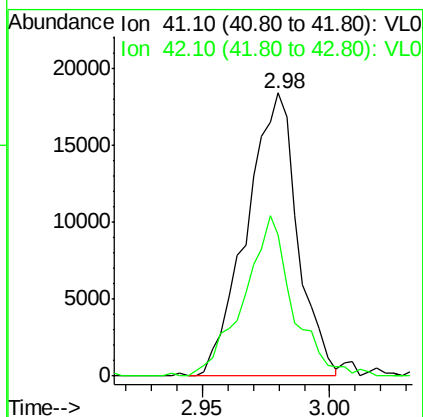
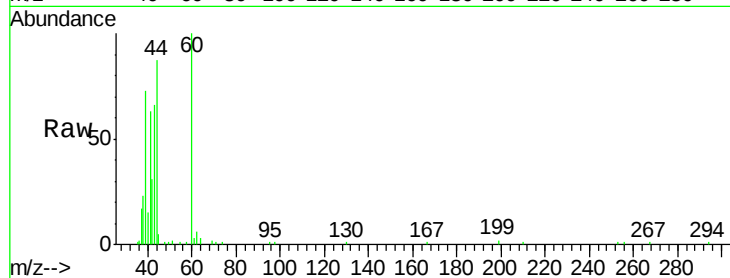
Ion Ratio Lower Upper

41 100

42 112.4 55.2 82.8#

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#11

Trichlorofluoromethane

Concen: 0.250 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL034917.D

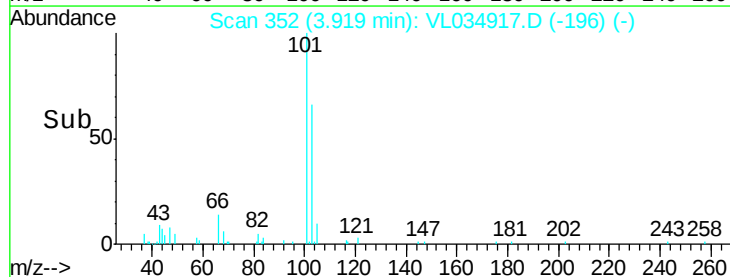
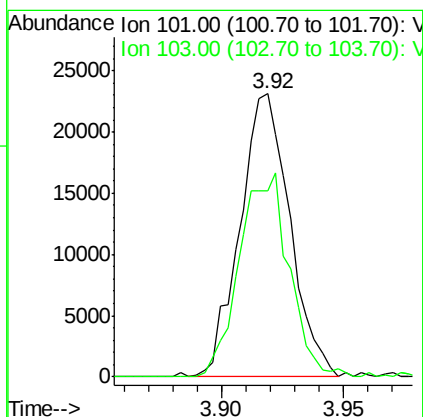
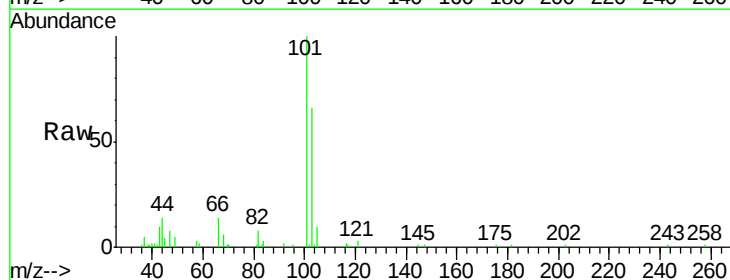
Acq: 17 Mar 2020 16:05

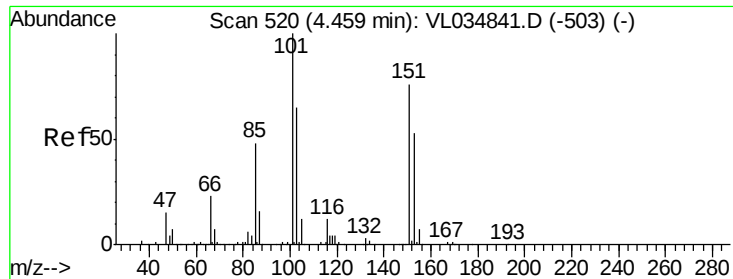
Tgt Ion: 101 Resp: 32741

Ion Ratio Lower Upper

101 100

103 65.6 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.097 ppbv m

RT: 4.47 min Scan# 522

Delta R.T. 0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion:101 Resp: 8884

Ion Ratio Lower Upper

101 100

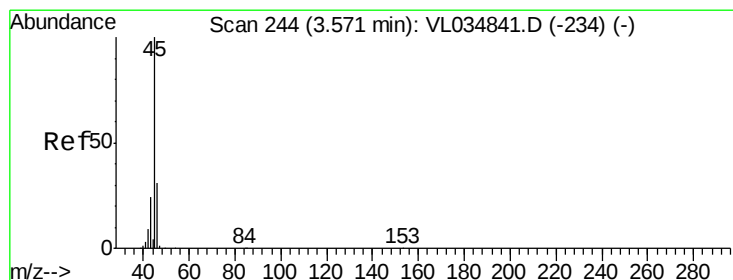
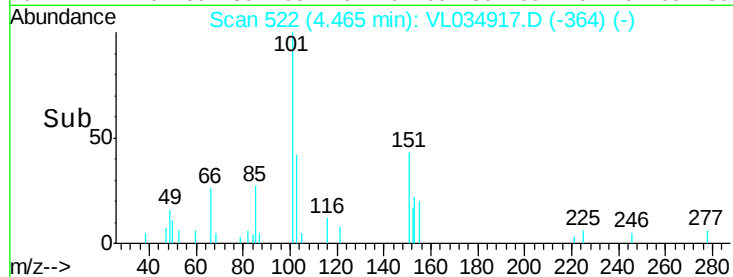
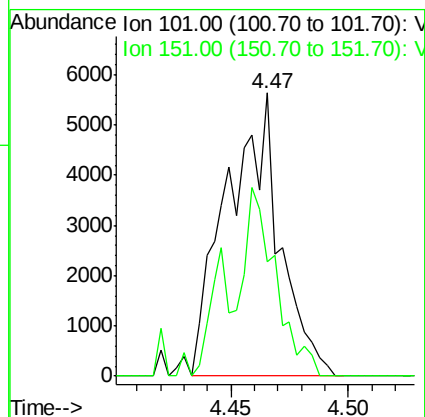
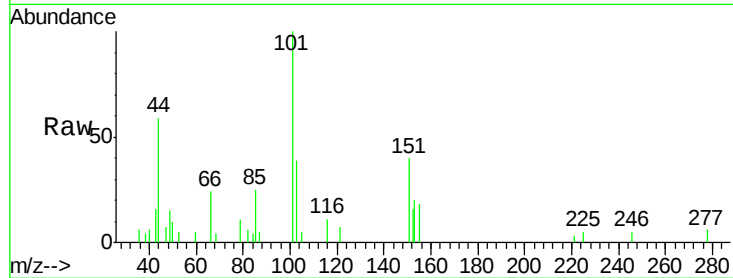
151 0.0 60.8 91.2#

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#13

Ethanol

Concen: 12.775 ppbv

RT: 3.57 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL034917.D

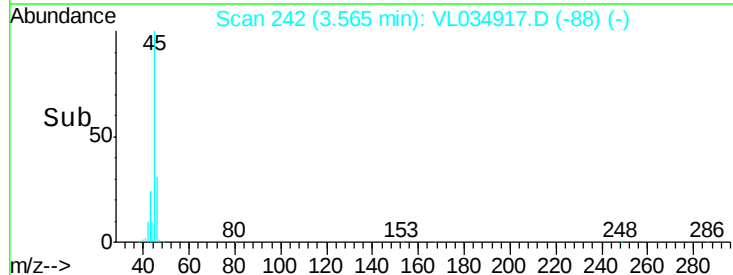
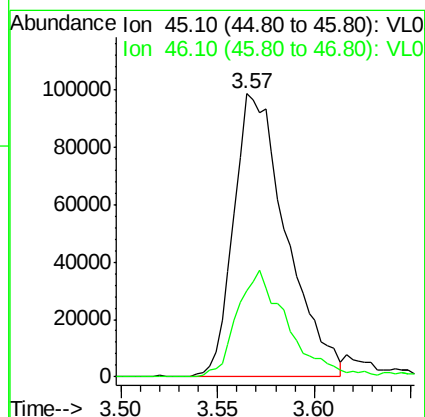
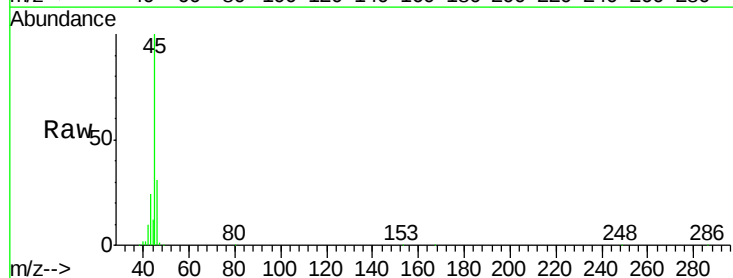
Acq: 17 Mar 2020 16:05

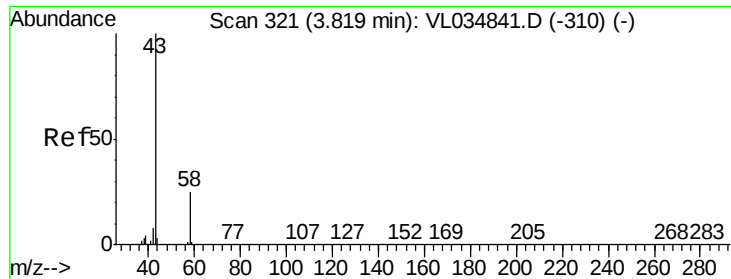
Tgt Ion: 45 Resp: 186379

Ion Ratio Lower Upper

45 100

46 37.8 16.0 64.0





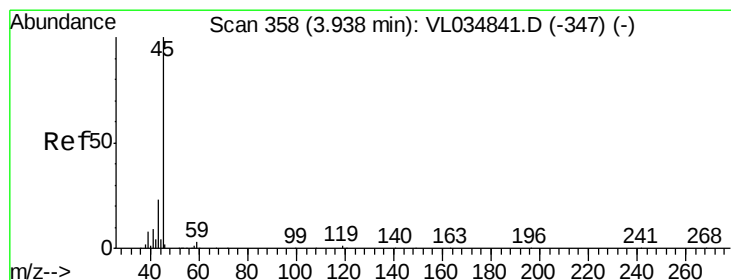
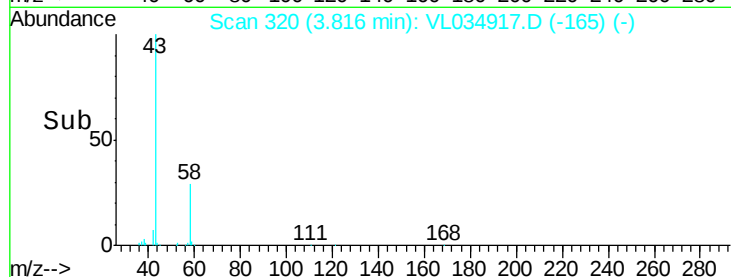
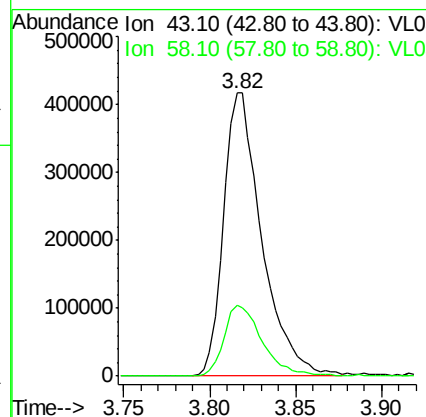
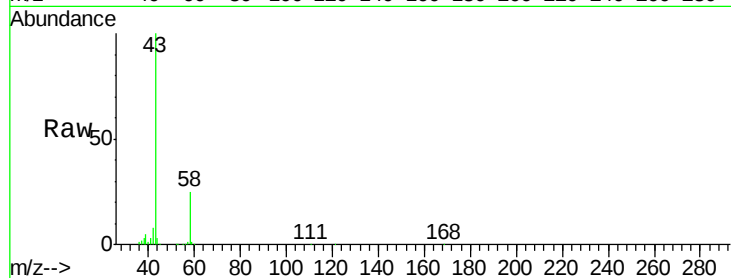
#15
Acetone
Concen: 5.517 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
43	100		
58	25.6	21.0	31.6

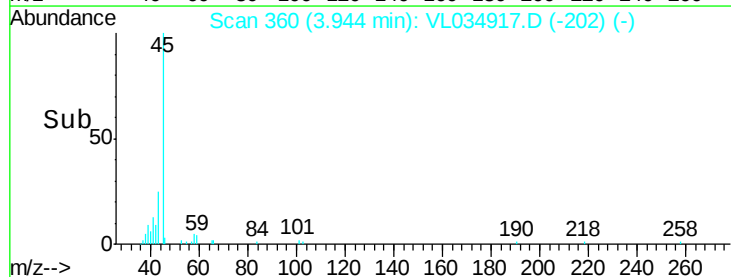
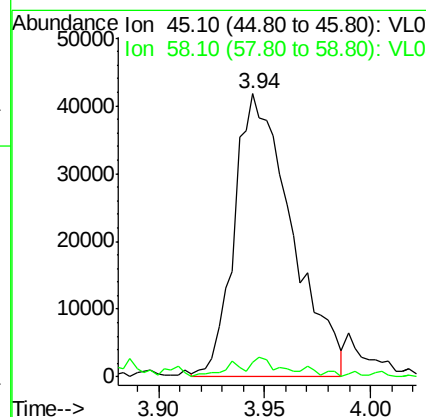
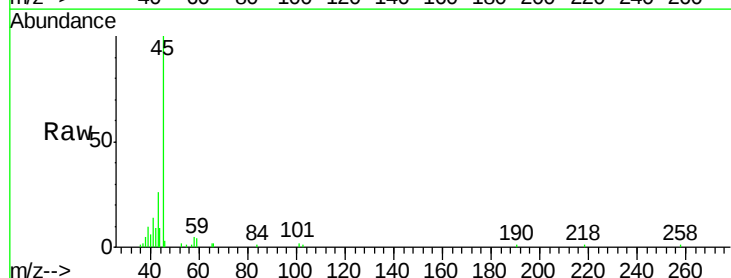
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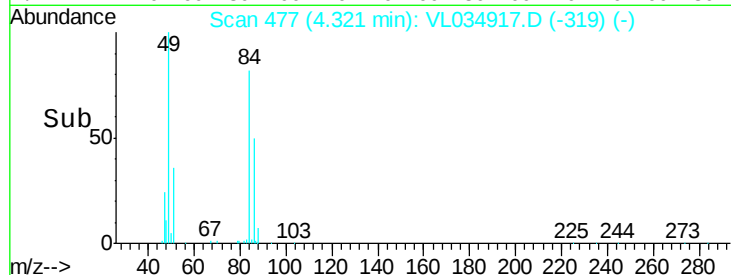
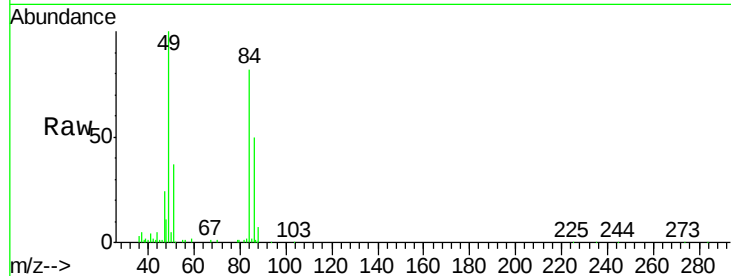
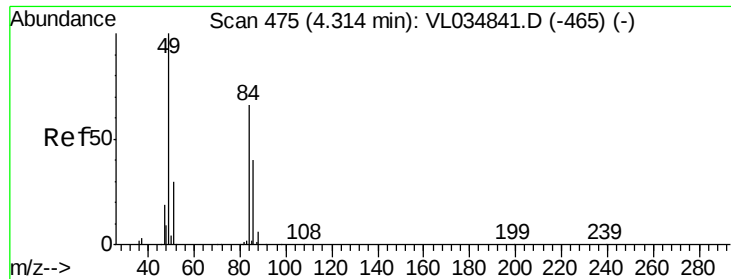
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#19
Isopropyl Alcohol
Concen: 1.072 ppbv m
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
45	100		
58	7.0	30.5	45.7#





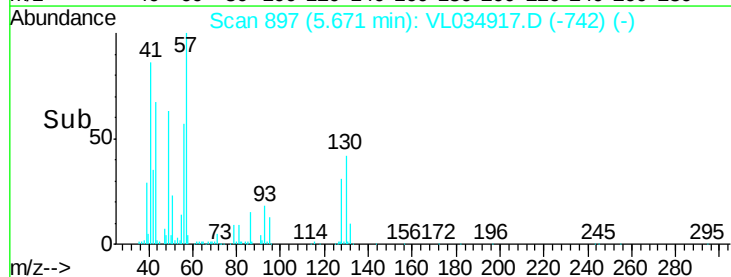
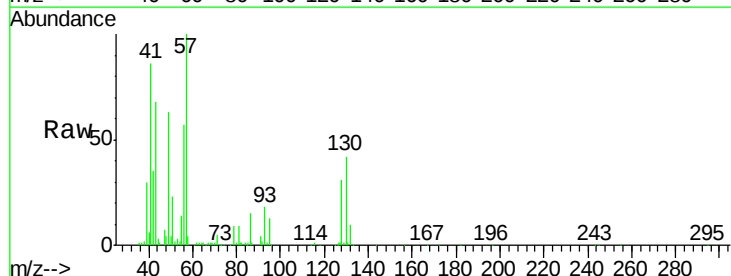
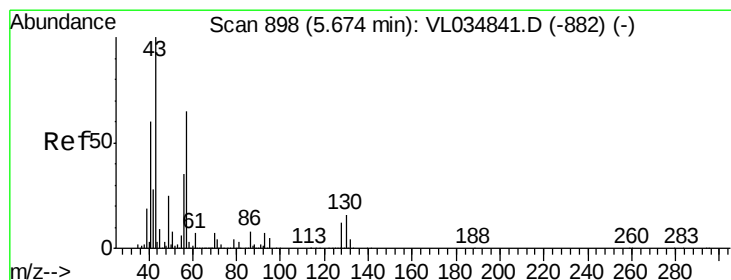
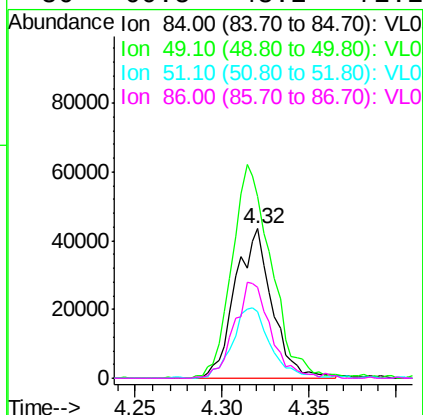
#20
Methvlene Chloride
Concen: 1.751 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tot Ion:	84	Resp:	64559
Ion	Ratio	Lower	Upper
84	100		
49	121.9	121.5	182.3
51	44.6	36.6	55.0
86	60.5	48.2	72.2

Instrument :
MSVOA_L
ClientSampleId :
AA-1

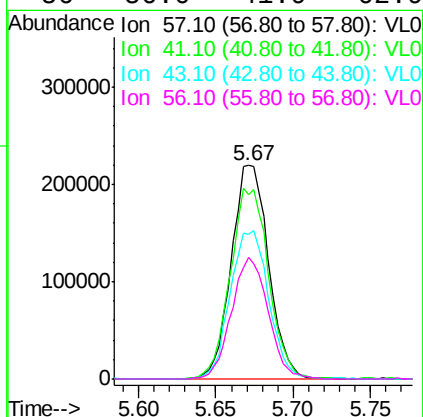
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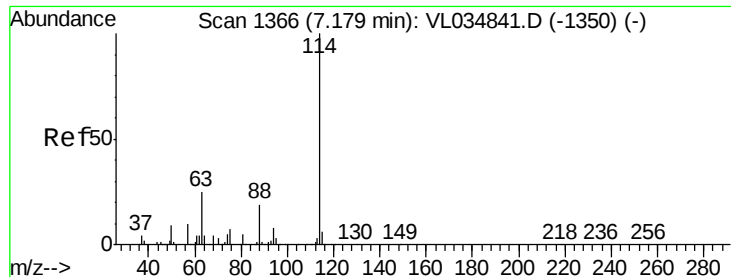
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#26
Hexane
Concen: 4.107 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion:	57	Resp:	367405
Ion	Ratio	Lower	Upper
57	100		
41	92.8	72.6	109.0
43	72.2	183.8	275.6#
56	56.0	41.9	62.9





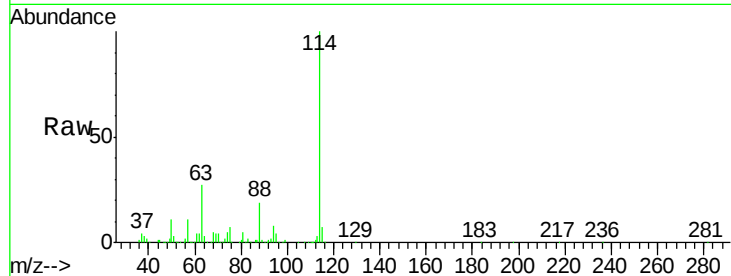
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

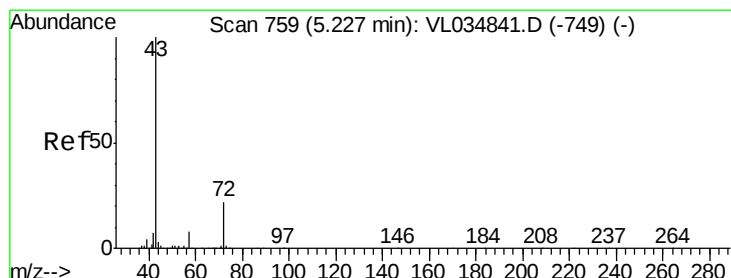
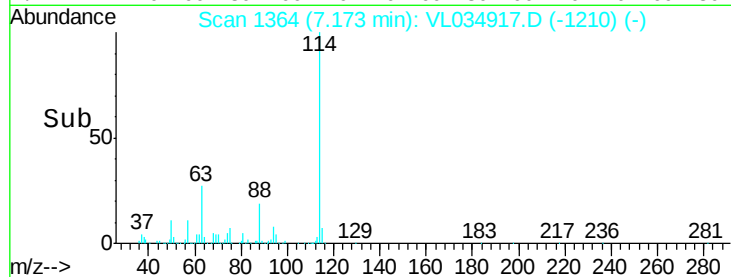
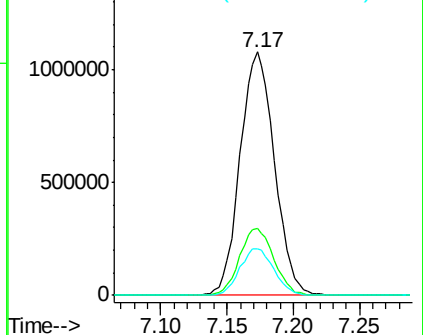
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	20.6	31.0
88	19.2	15.0	22.6

Manual Integrations
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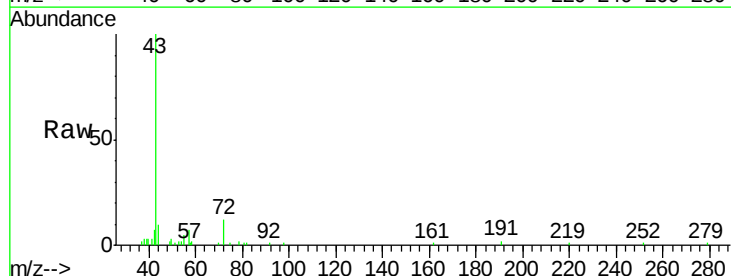


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

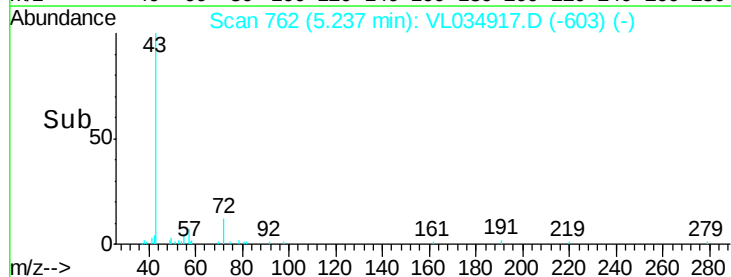
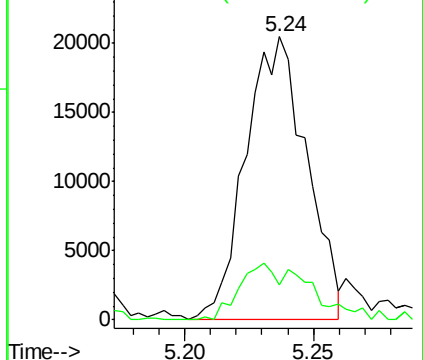


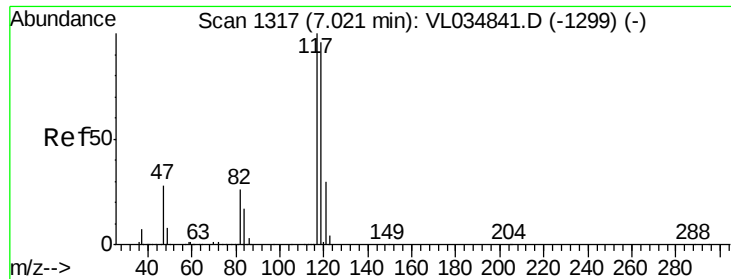
#34
 2-Butanone
 Concen: 0.262 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.6	26.4



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





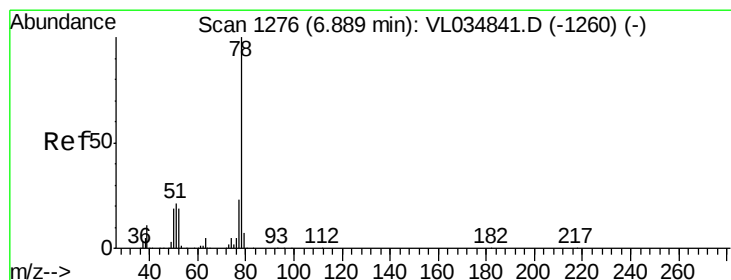
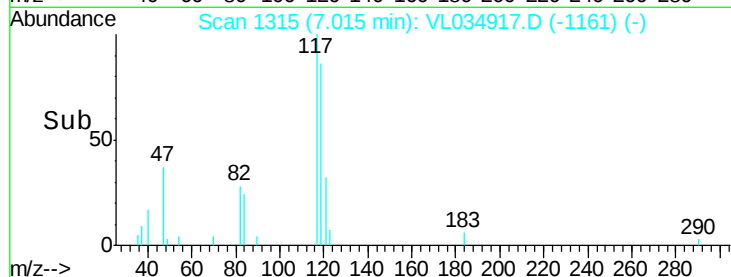
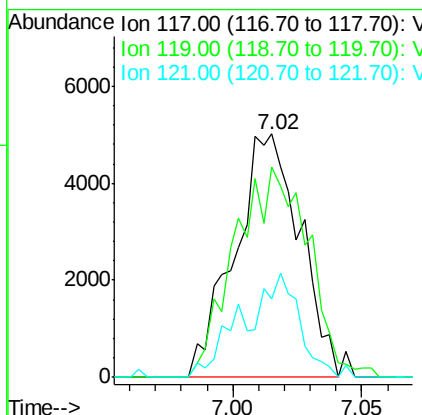
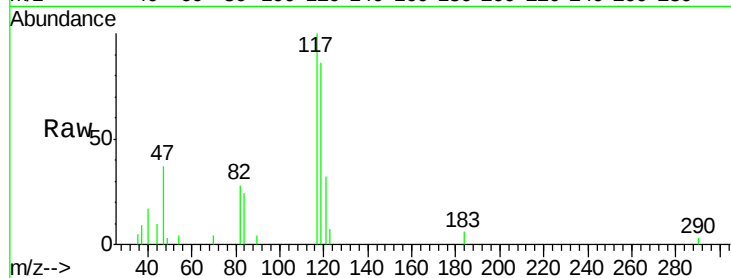
#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 7.02 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	86.3	77.0	115.4
121	32.3	24.0	36.0

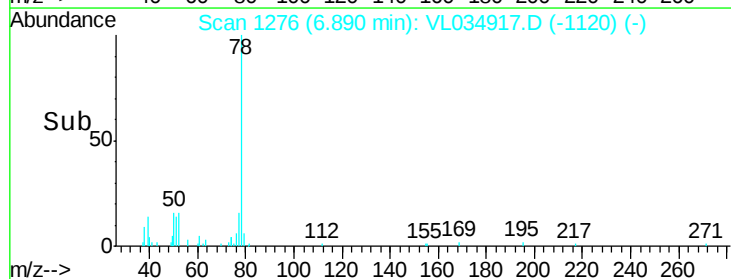
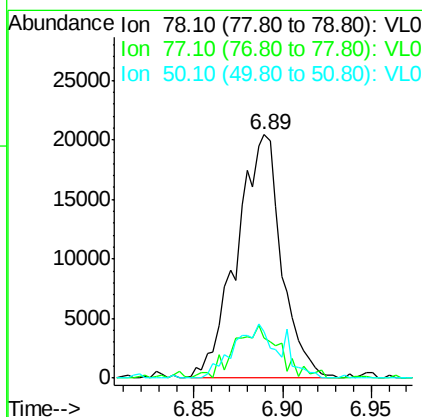
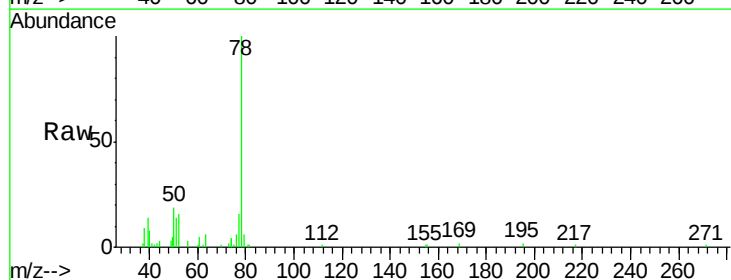
Manual Integrations
APPROVED

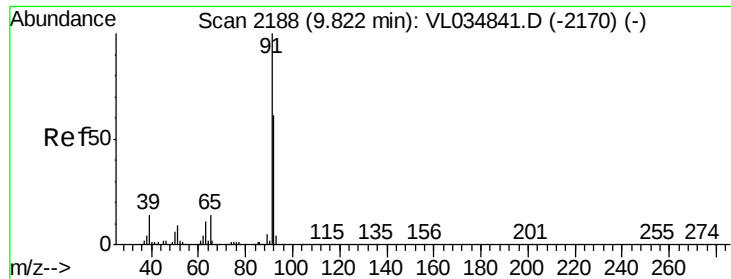
MMDadoda
3/18/2020 5:35:43 PM



#36
Benzene
Concen: 0.209 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.5	18.2	27.2#
50	19.0	15.2	22.8





#53

Toluene

Concen: 0.498 ppbv m

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 91 Resp: 99618

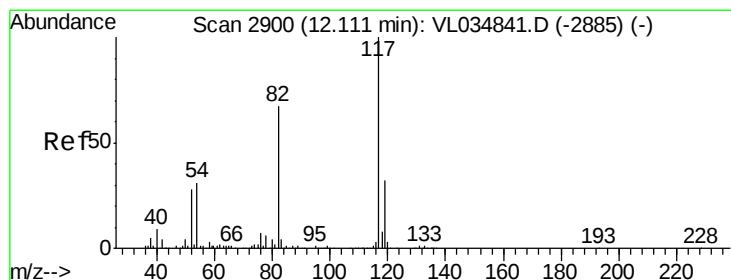
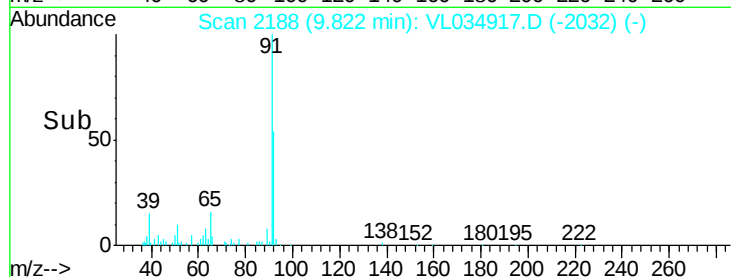
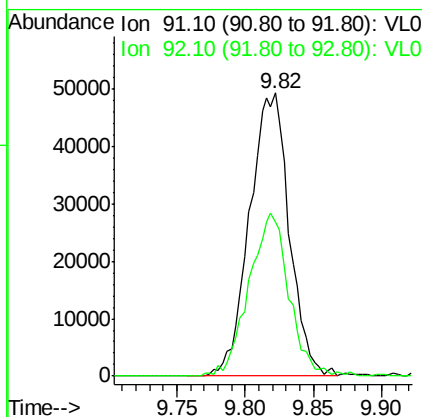
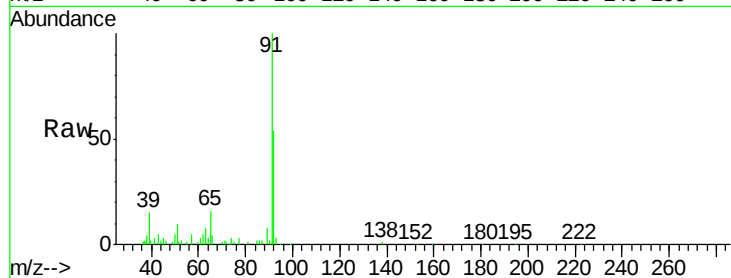
Ion Ratio Lower Upper

91 100

92 0.0 48.6 72.8#

Manual Integrations
APPROVED

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3/18/2020 5:35:43 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

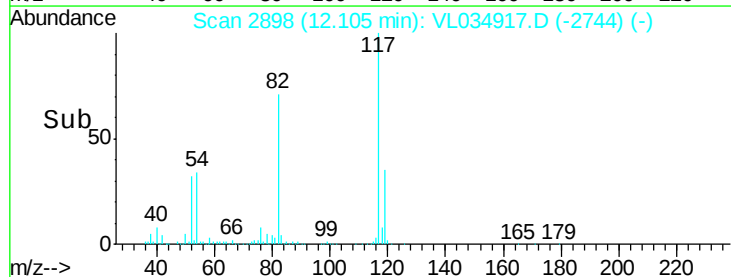
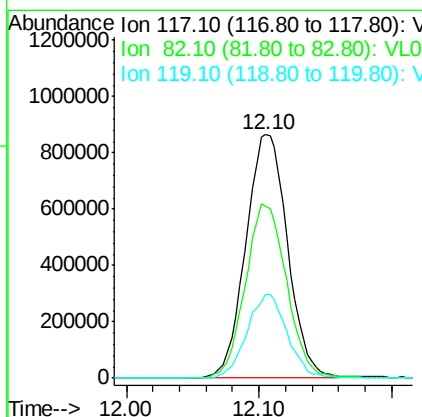
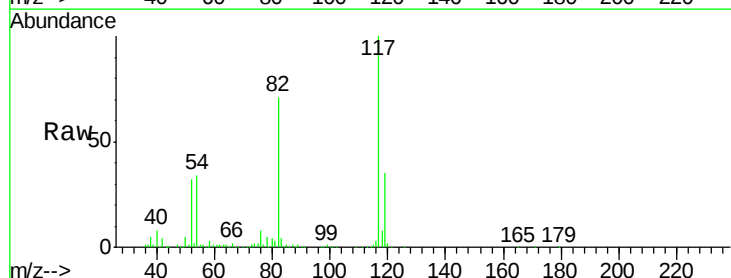
Tgt Ion: 117 Resp: 1898033

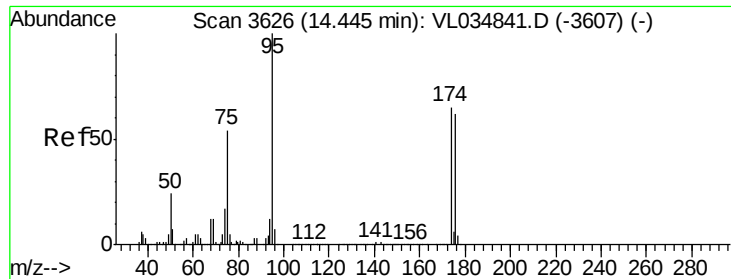
Ion Ratio Lower Upper

117 100

82 71.1 51.1 76.7

119 33.3 27.3 40.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.088 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.8	55.2	82.8
175	4.8	4.3	6.5

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:43 PM

