

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
 Data File : VL034286.D
 Acq On : 14 Oct 2019 17:58
 Operator : SY/AP
 Sample : K5353-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:27 AM

Quant Time: Oct 15 09:38:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	943692	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1562403	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1576429	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1403499	10.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	92124	0.661	ppbv	92
3) Chlorodifluoromethane	2.97	51	157260m	1.421	ppbv	
4) Chloromethane	3.12	50	25016	0.385	ppbv	90
9) Propene	3.00	41	42571m	0.780	ppbv	
11) Trichlorofluoromethane	3.95	101	53745	0.424	ppbv #	82
13) Ethanol	3.60	45	1824141	137.992	ppbv	97
15) Acetone	3.84	43	573926m	4.538	ppbv	
19) Isopropyl Alcohol	3.97	45	76979	0.990	ppbv #	1
20) Methylene Chloride	4.35	84	30744	0.843	ppbv #	80
26) Hexane	5.71	57	100352	1.009	ppbv #	56
34) 2-Butanone	5.26	43	29860	0.187	ppbv	92
35) Carbon Tetrachloride	7.06	117	9145m	0.070	ppbv	
39) 1,2-Dichloropropane	7.21	63	516500	6.662	ppbv #	21
53) Toluene	9.86	91	110469	0.586	ppbv	94
74) 1,2,4-Trimethylbenzene	16.84	105	32505m	0.133	ppbv	

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

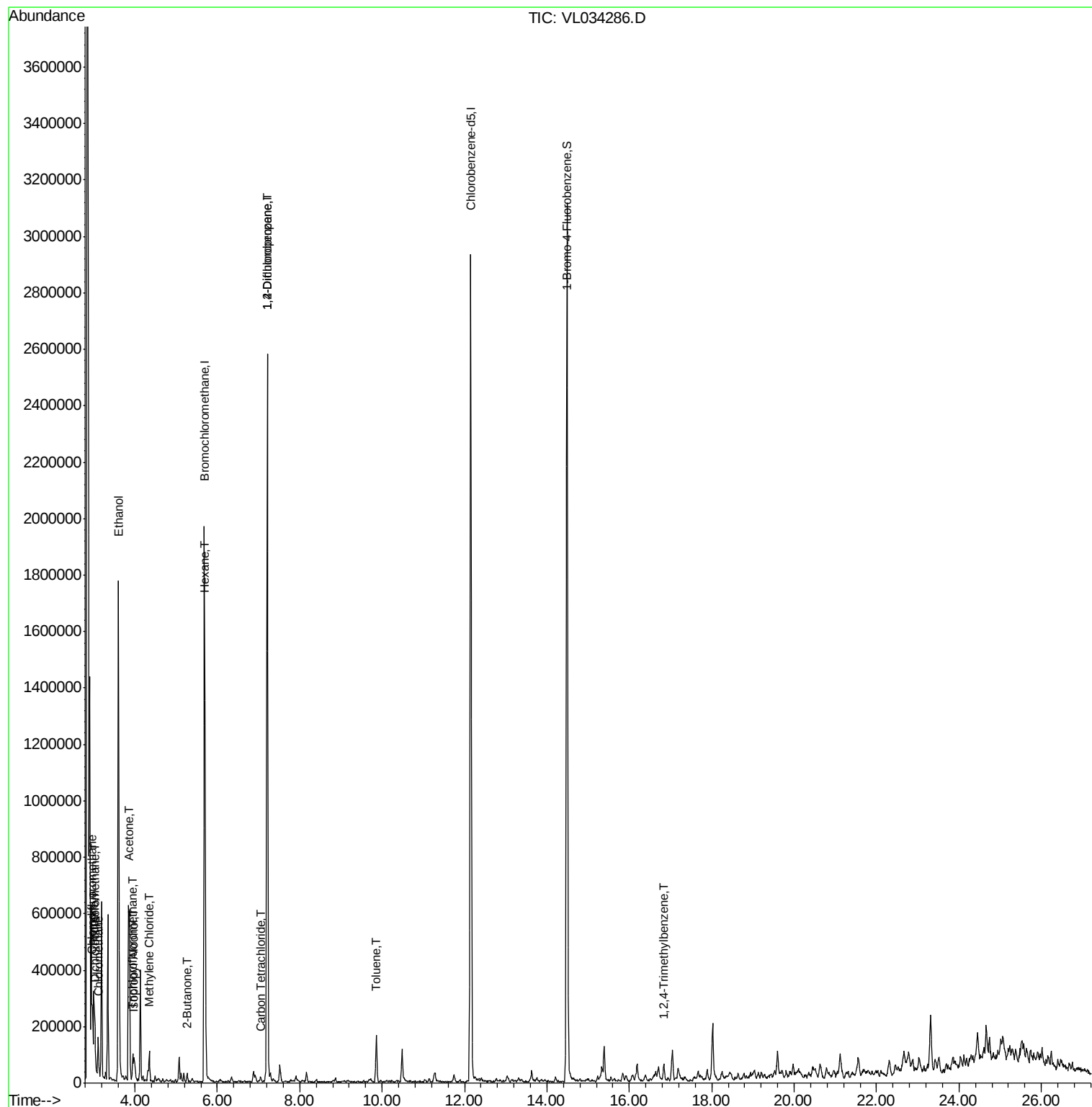
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
Data File : VL034286.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

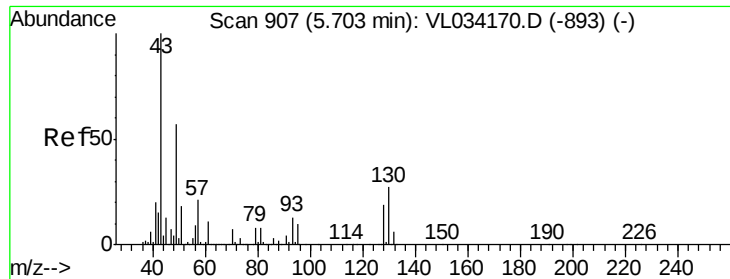
Instrument :
MSVOA_L
ClientSampleId :
IA-2

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10/16/2019 12:59:27 AM

Quant Time: Oct 15 09:38:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 49 Resp: 943692

Ion Ratio Lower Upper

49 100

128 36.0 17.6 52.9

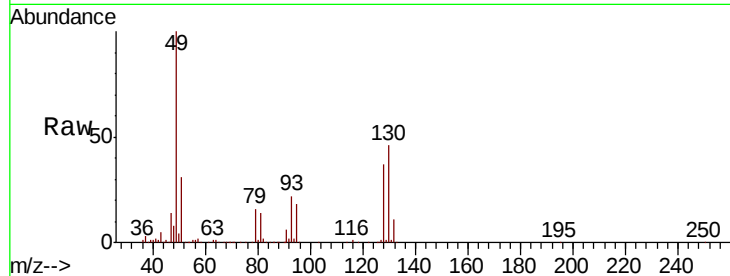
130 45.1 22.3 66.9

Manual Integrations

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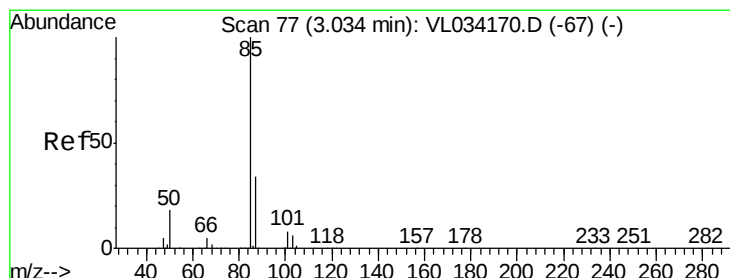
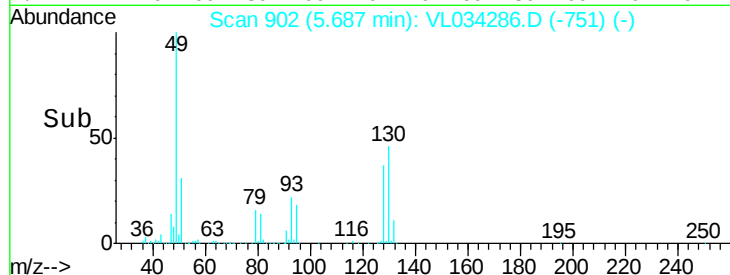
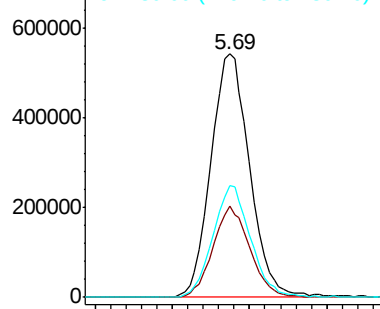
10/16/2019 12:59:27 AM



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



#2

Dichlorodifluoromethane

Concen: 0.661 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034286.D

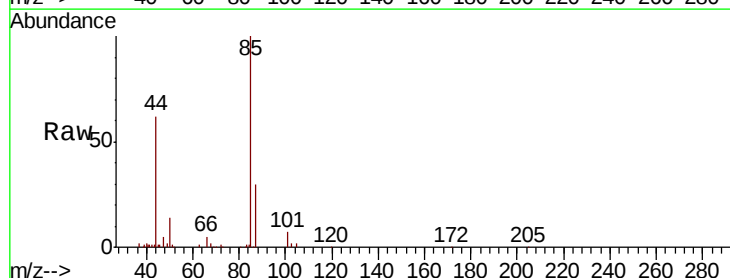
Acq: 14 Oct 2019 17:58

Tgt Ion: 85 Resp: 92124

Ion Ratio Lower Upper

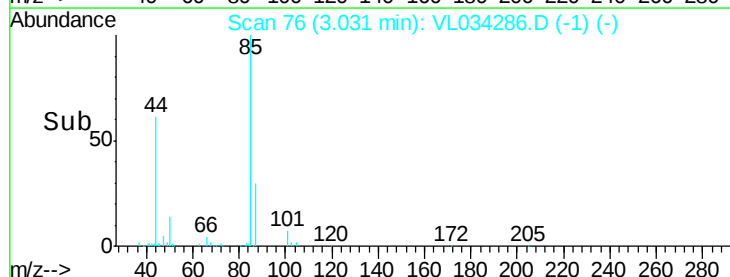
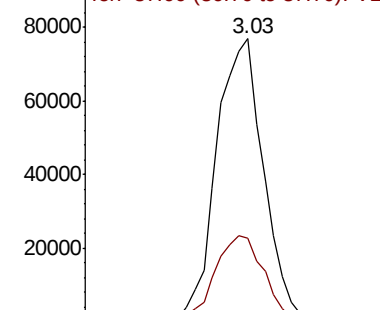
85 100

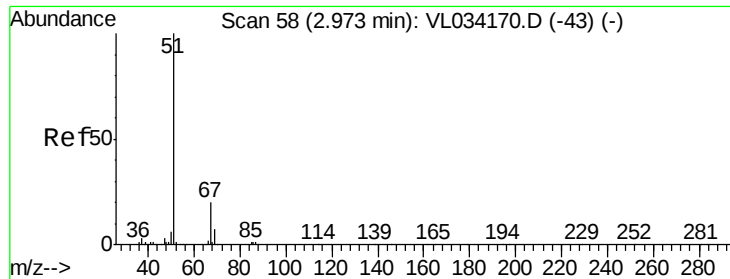
87 29.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.421 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 51 Resp: 157260

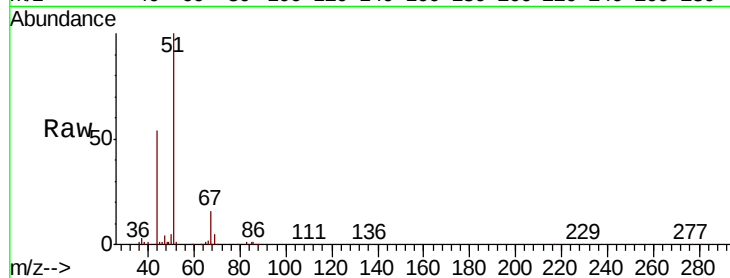
Ion Ratio Lower Upper

51 100

67 20.9 14.8 22.2

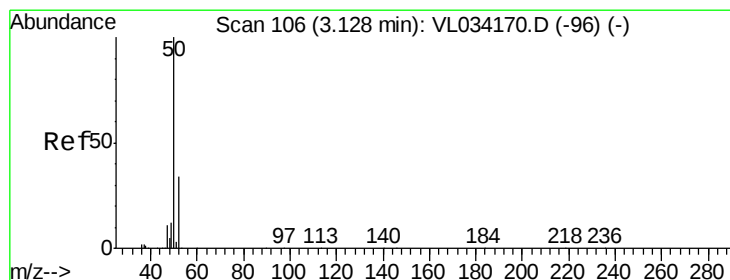
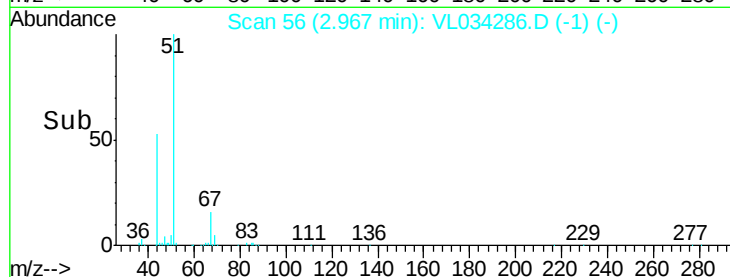
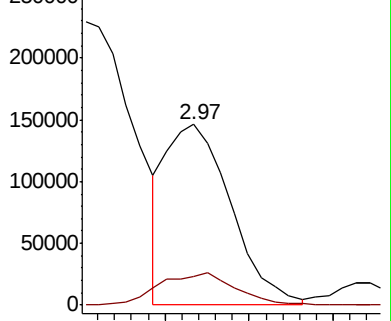
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.385 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034286.D

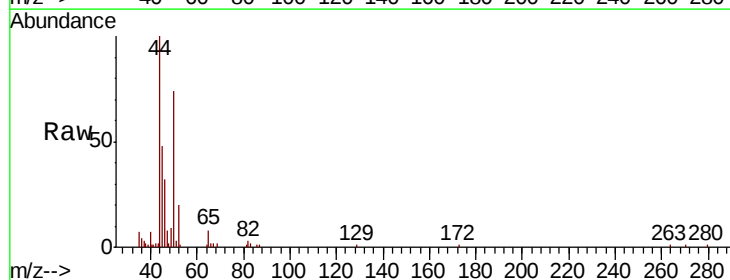
Acq: 14 Oct 2019 17:58

Tgt Ion: 50 Resp: 25016

Ion Ratio Lower Upper

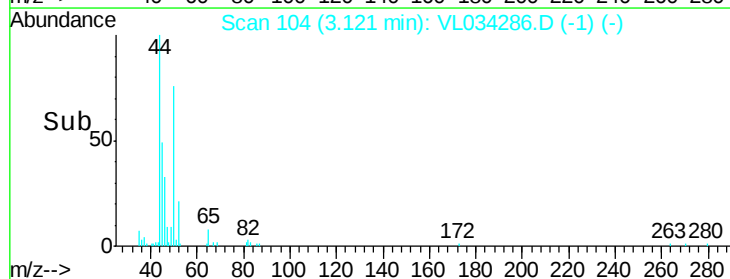
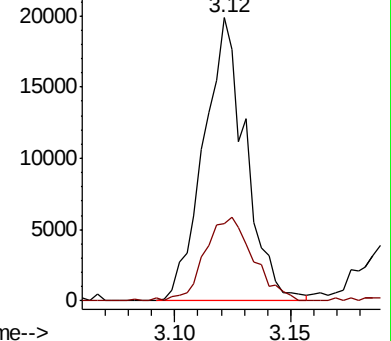
50 100

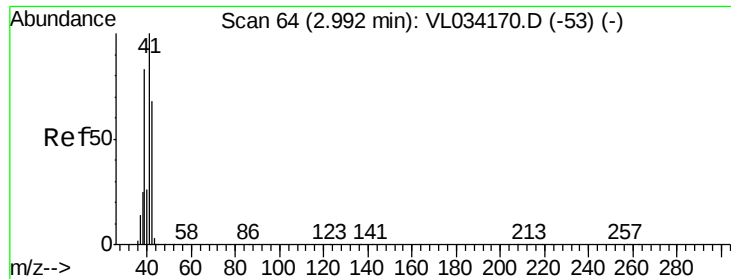
52 28.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.780 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 41 Resp: 42571

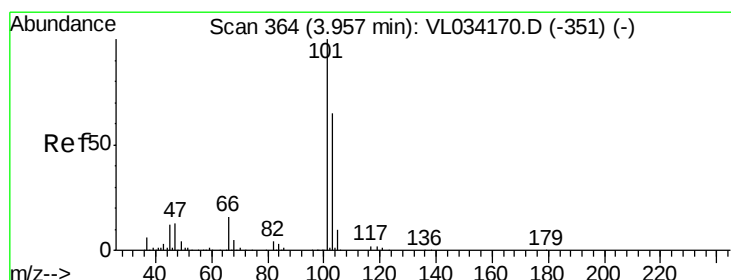
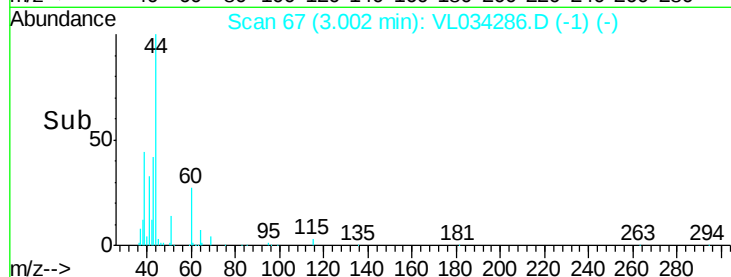
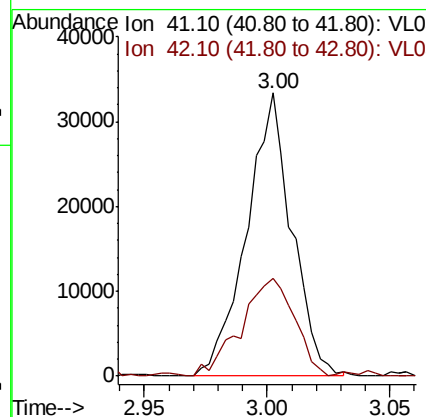
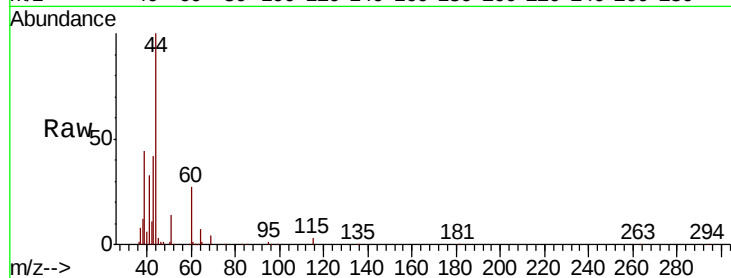
Ion Ratio Lower Upper

41 100

42 233.4 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.424 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL034286.D

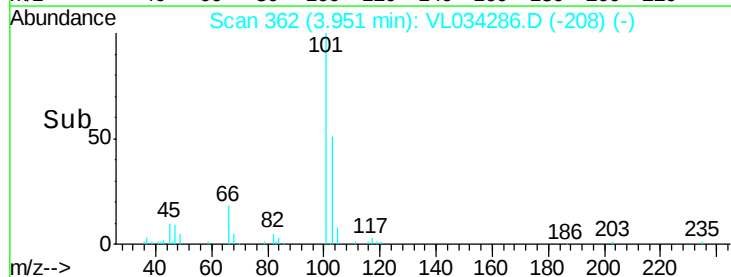
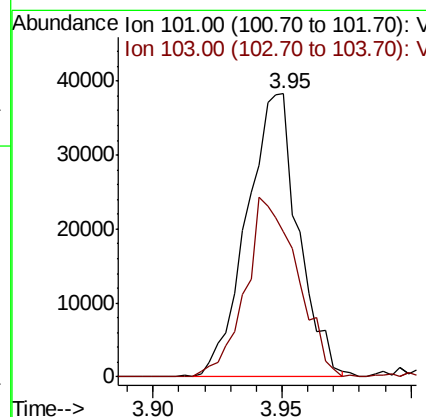
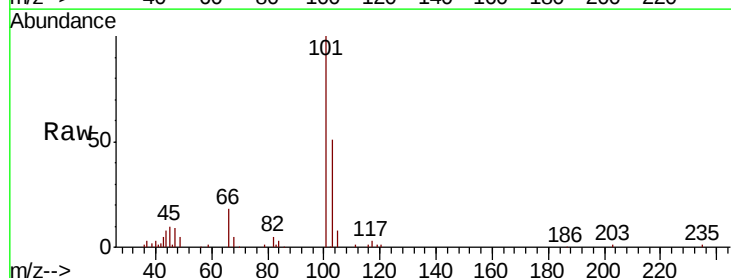
Acq: 14 Oct 2019 17:58

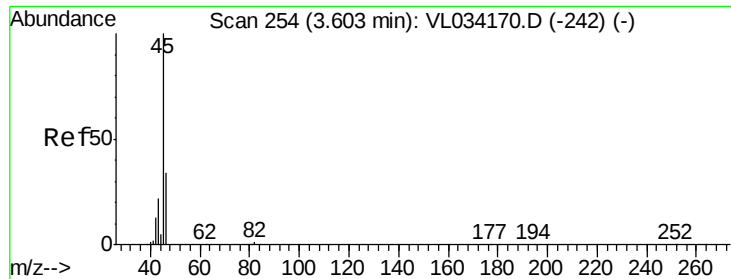
Tgt Ion: 101 Resp: 53745

Ion Ratio Lower Upper

101 100

103 51.2 52.1 78.1#





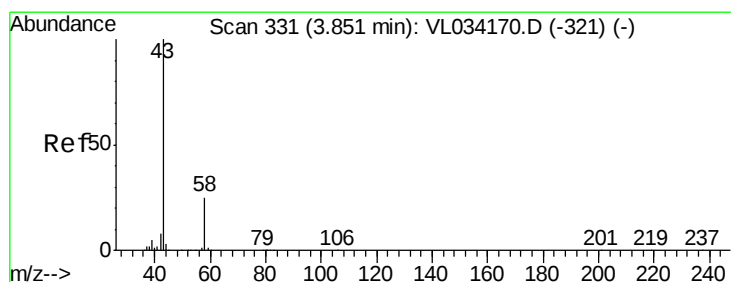
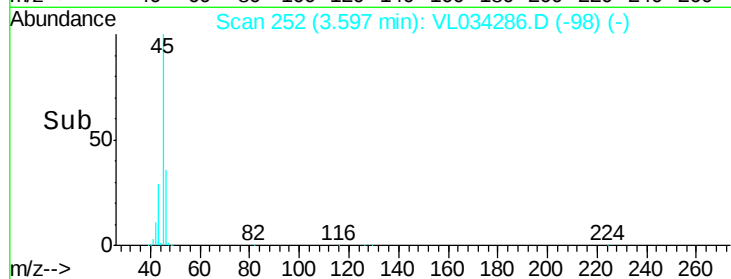
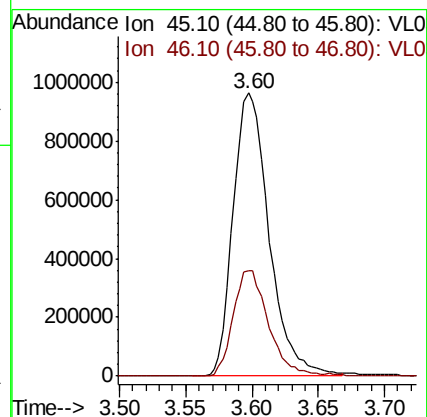
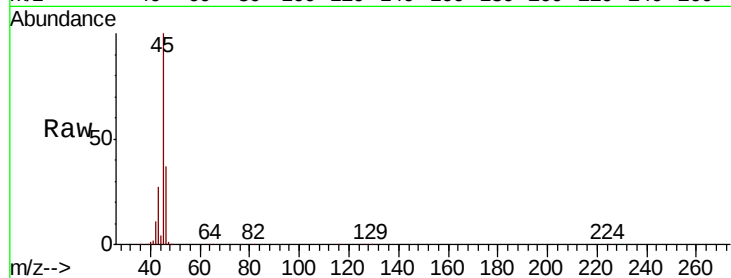
#13
Ethanol
Concen: 137.992 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 45 Resp: 1824141
Ion Ratio Lower Upper
45 100
46 36.9 15.5 61.9

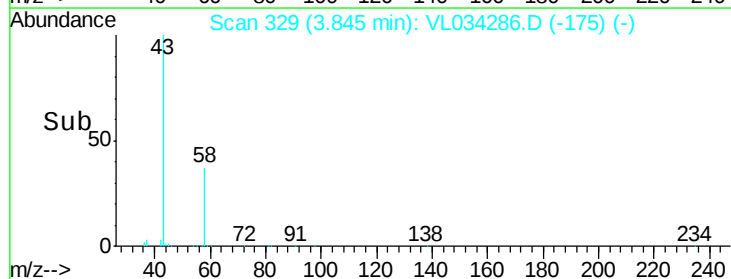
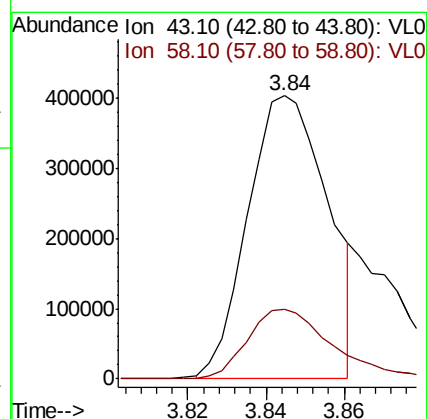
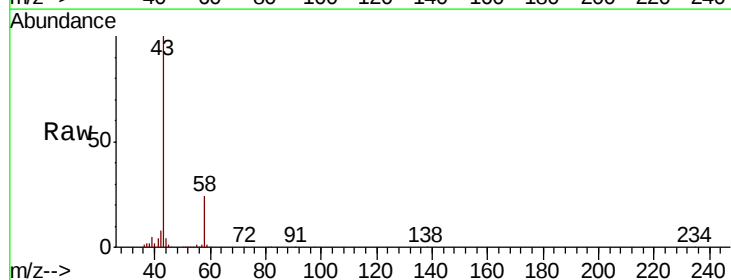
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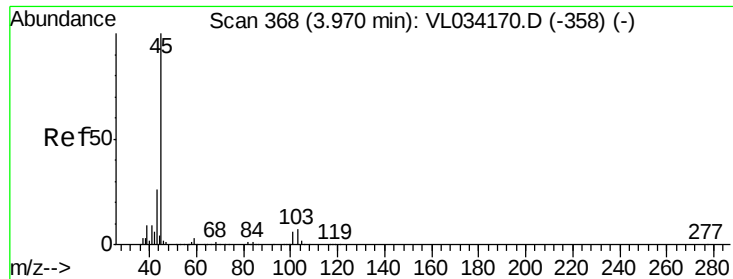
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#15
Acetone
Concen: 4.538 ppbv m
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Tgt Ion: 43 Resp: 573926
Ion Ratio Lower Upper
43 100
58 26.8 20.5 30.7





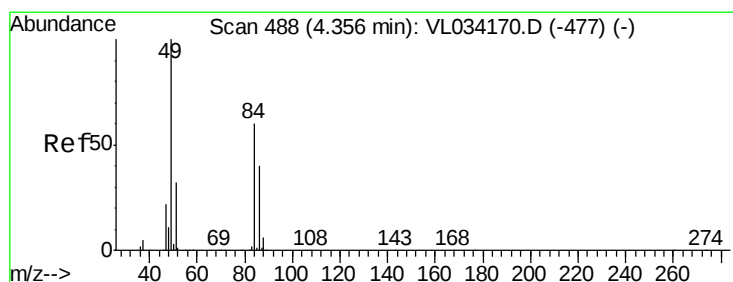
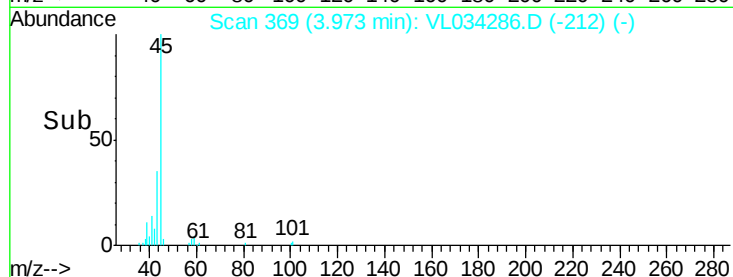
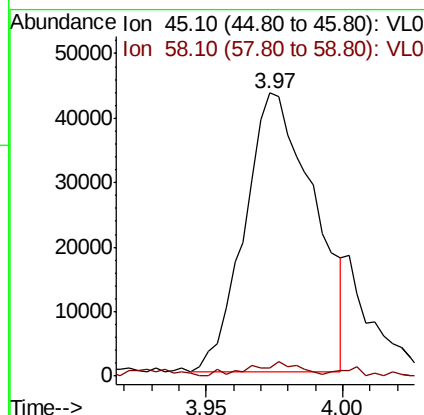
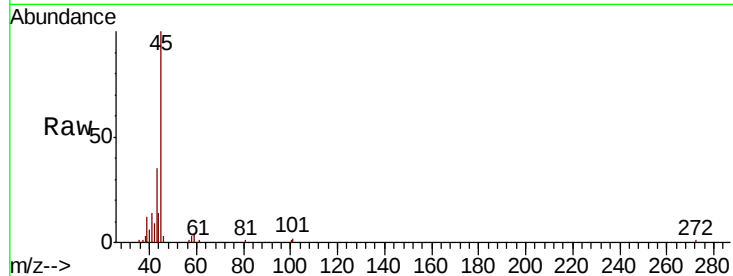
#19
Isopropyl Alcohol
Concen: 0.990 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion	Ratio	Lower	Upper
45	100		
58	200.0	1.4	2.0#

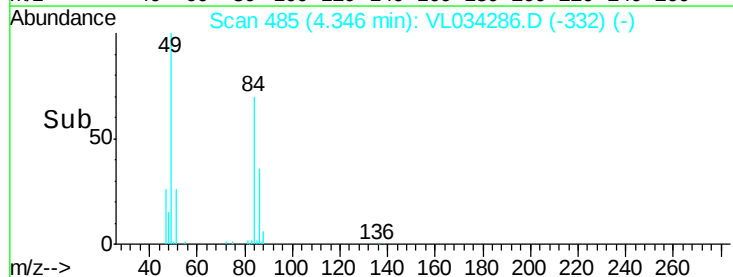
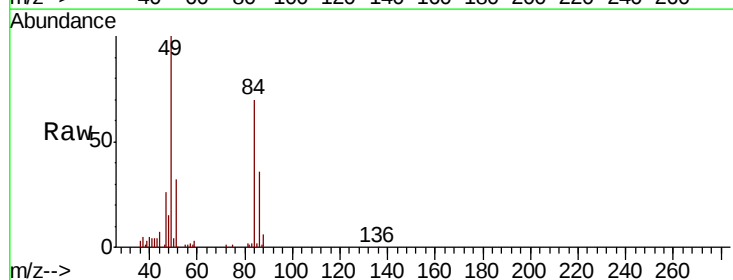
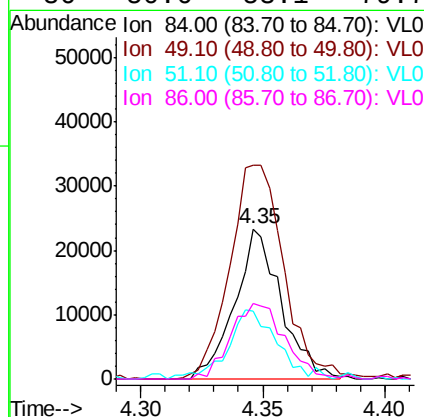
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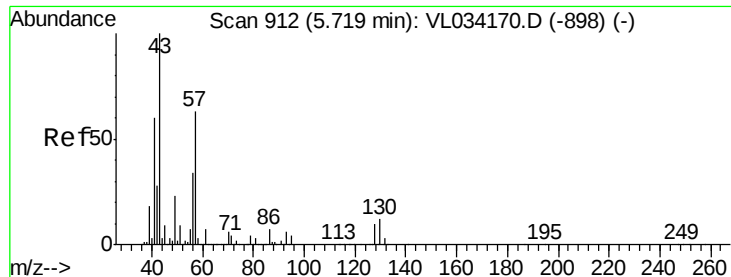
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#20
Methylene Chloride
Concen: 0.843 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	138.3	133.8	200.8
51	43.8	43.6	65.4
86	50.6	53.1	79.7#





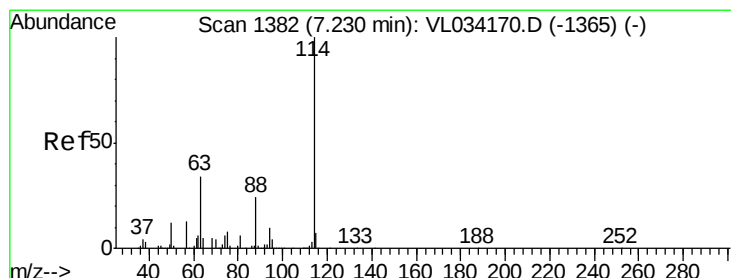
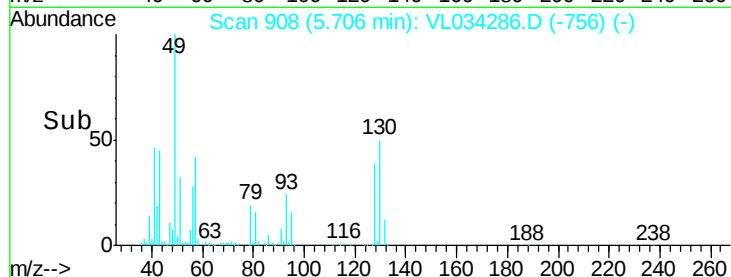
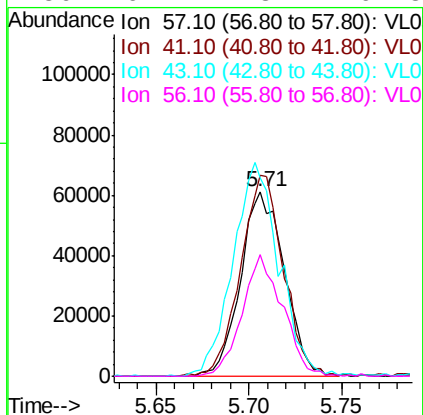
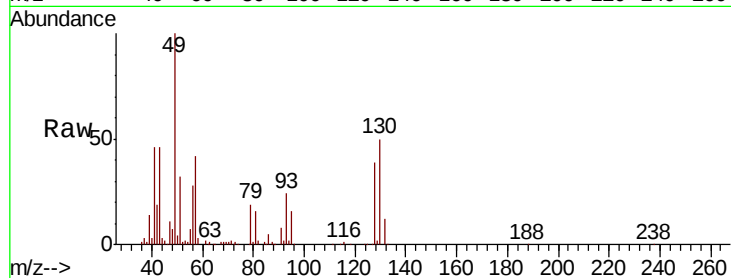
#26
Hexane
Concen: 1.009 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.01 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	107.5	78.5	117.7
43	124.3	189.5	284.3#
56	61.2	43.2	64.8

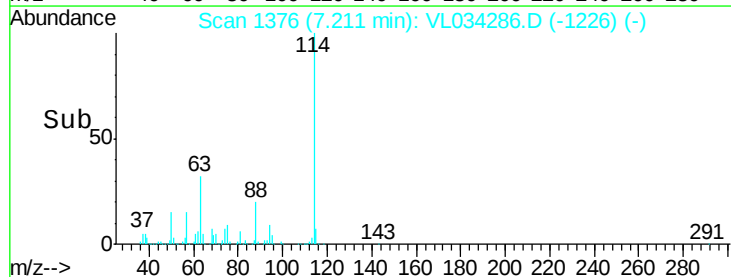
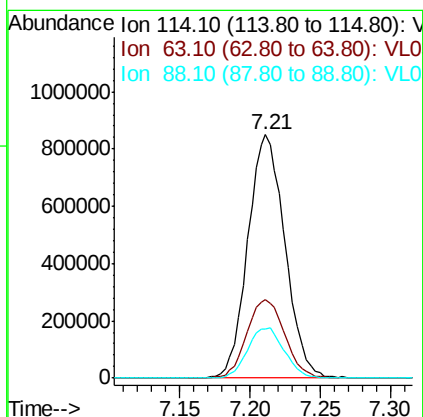
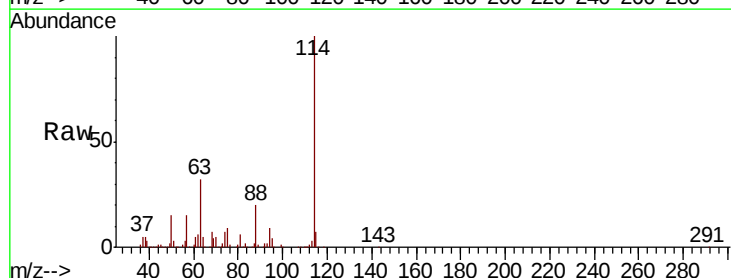
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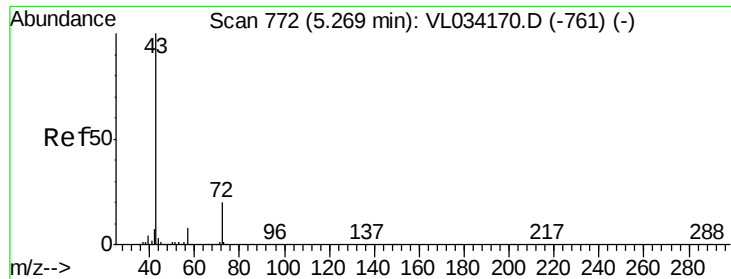
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034286.D
Acq: 14 Oct 2019 17:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	33.1	27.8	41.6
88	20.8	17.1	25.7





#34

2-Butanone

Concen: 0.187 ppbv

RT: 5.26 min Scan# 770

Delta R.T. -0.01 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 43 Resp: 29860

Ion Ratio Lower Upper

43 100

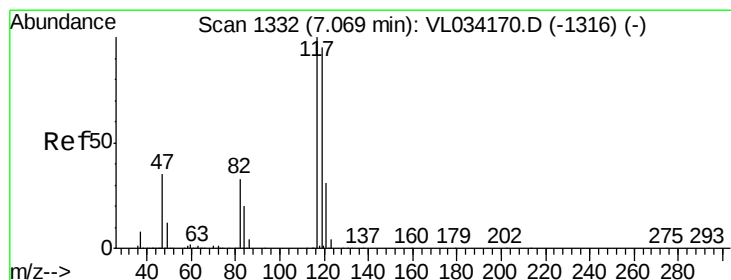
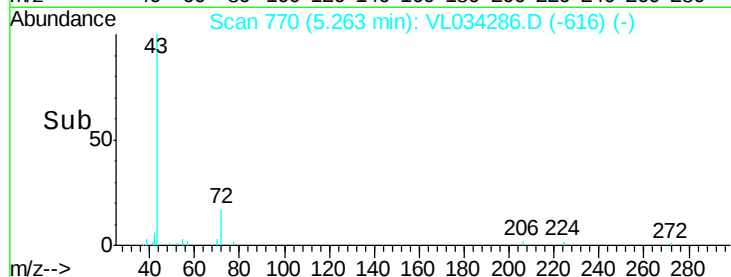
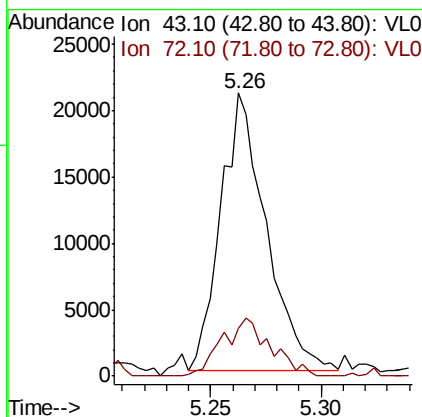
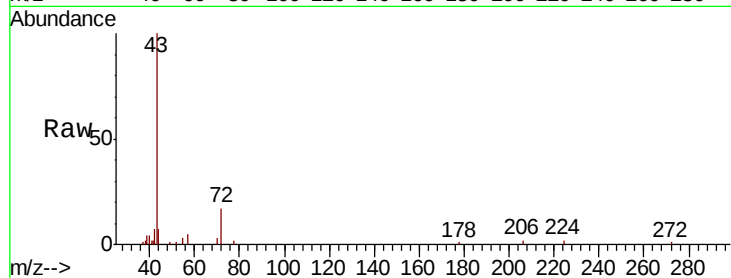
72 22.4 15.0 22.6

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 7.06 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

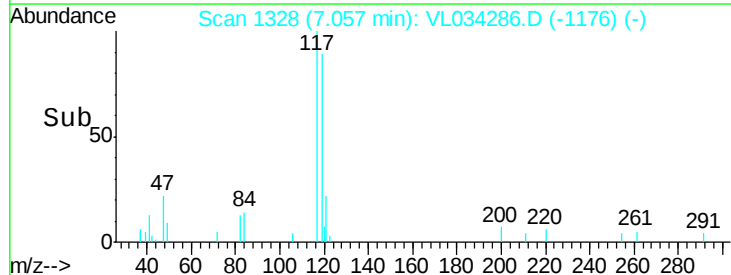
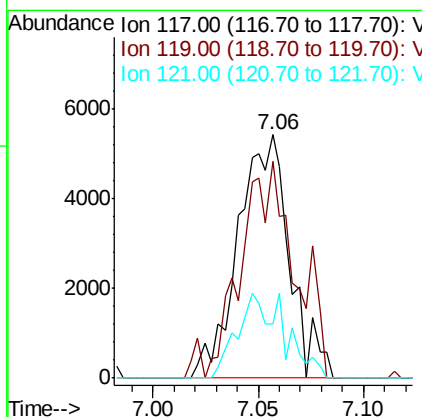
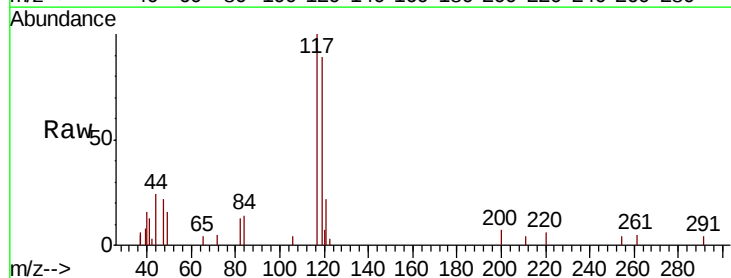
Tgt Ion: 117 Resp: 9145

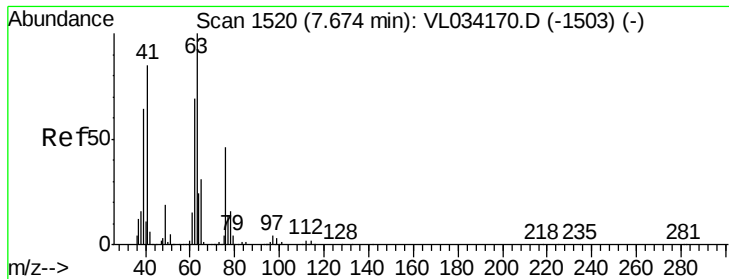
Ion Ratio Lower Upper

117 100

119 89.2 75.8 113.6

121 22.2 25.0 37.6#





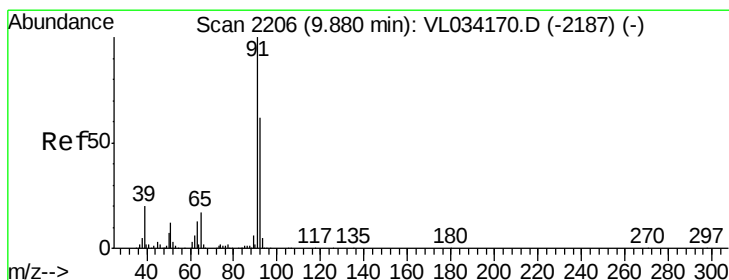
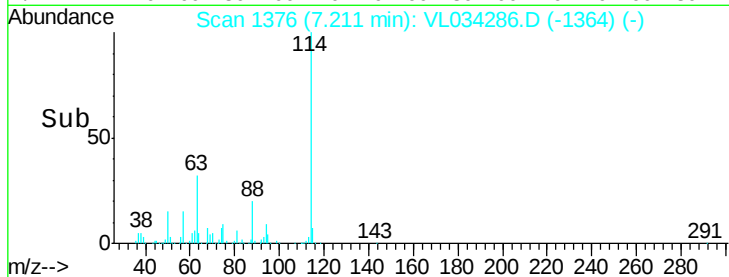
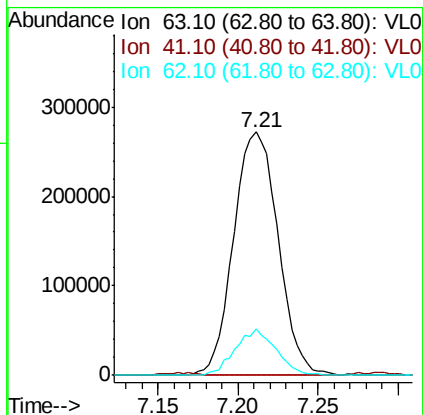
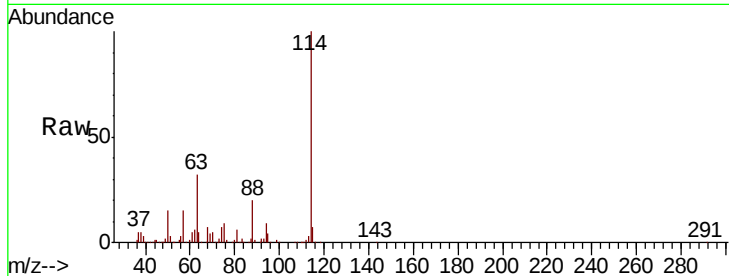
#39
 1,2-Dichloropropane
 Concen: 6.662 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.46 min
 Lab File: VL034286.D
 Acq: 14 Oct 2019 17:58

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	18.6	55.4	83.2#

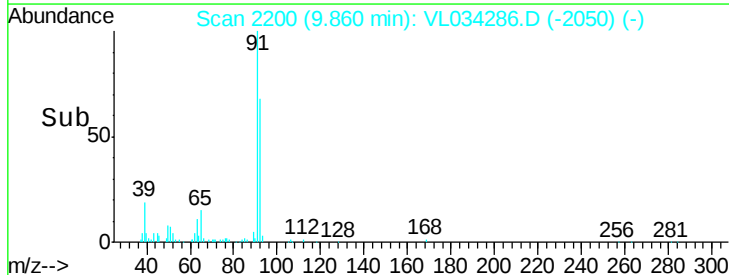
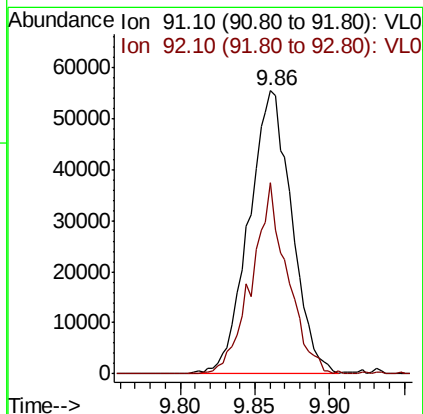
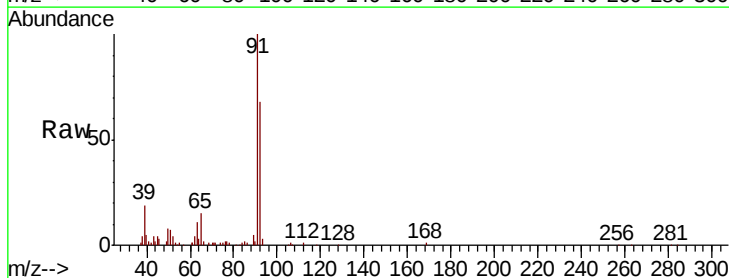
Manual Integrations
 APPROVED

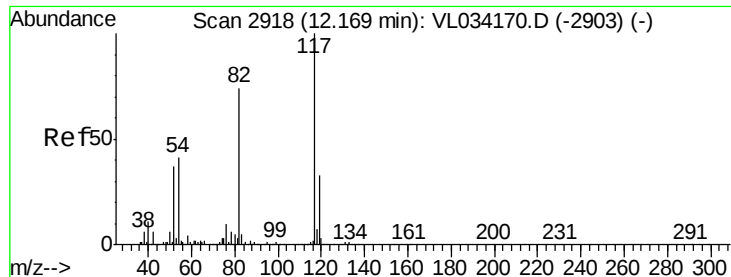
MMDadoda
 10/16/2019 12:59:27 AM



#53
 Toluene
 Concen: 0.586 ppbv
 RT: 9.86 min Scan# 2200
 Delta R.T. -0.02 min
 Lab File: VL034286.D
 Acq: 14 Oct 2019 17:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	49.0	73.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion:117 Resp: 1576429

Ion Ratio Lower Upper

117 100

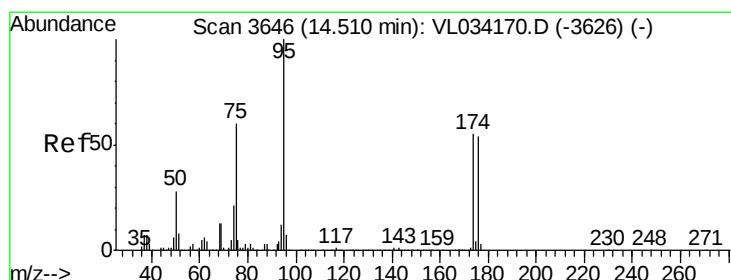
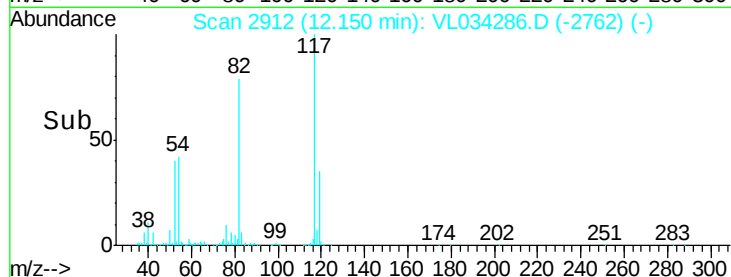
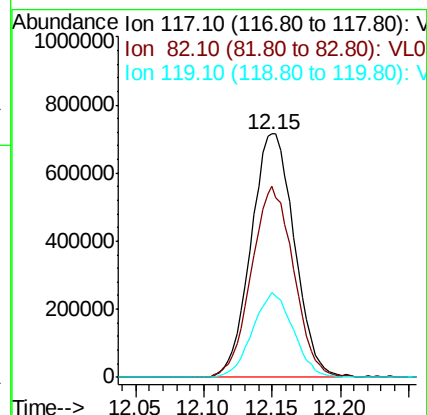
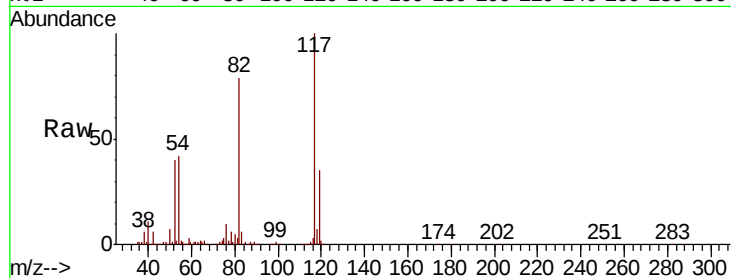
82 76.8 58.2 87.4

119 32.9 23.7 35.5

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.246 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.02 min

Lab File: VL034286.D

Acq: 14 Oct 2019 17:58

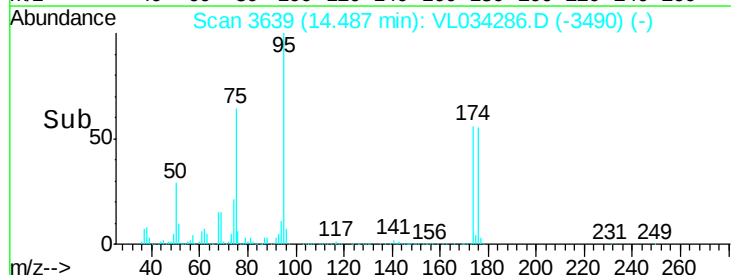
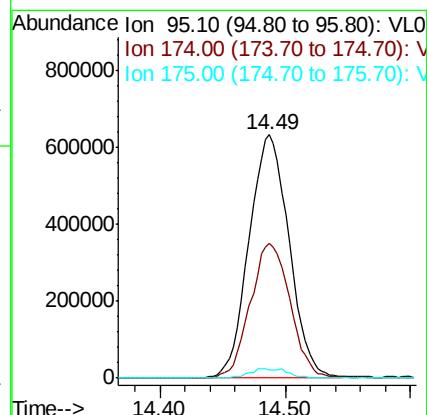
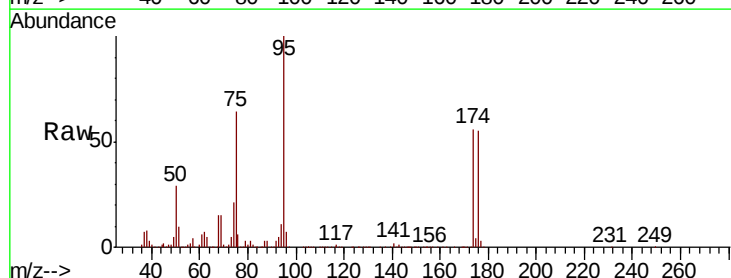
Tgt Ion: 95 Resp: 1403499

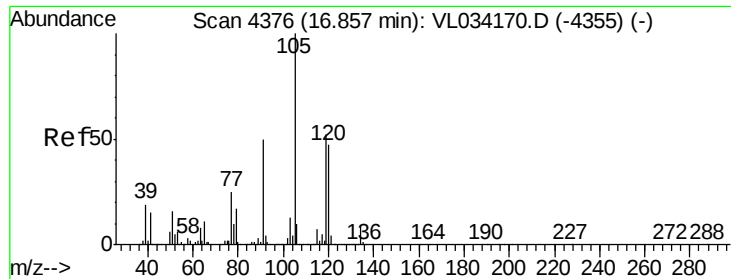
Ion Ratio Lower Upper

95 100

174 55.9 45.1 67.7

175 3.8 3.3 4.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.133 ppbv m
 RT: 16.84 min Scan# 4370
 Delta R.T. -0.02 min
 Lab File: VL034286.D
 Acq: 14 Oct 2019 17:58

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	30.4	37.5	56.3#
91	17.1	41.1	61.7#
77	21.2	19.9	29.9

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:27 AM

