

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034231.D
 Acq On : 7 Oct 2019 20:56
 Operator : SY/AP
 Sample : K5225-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:05:11 PM

Quant Time: Oct 10 20:33:32 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	1135004	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.21	114	1859336	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1872753	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1689706	10.38	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	102759	0.613	ppbv	96
3) Chlorodifluoromethane	2.97	51	59806m	0.449	ppbv	
4) Chloromethane	3.13	50	35708m	0.457	ppbv	
9) Propene	2.99	41	65371	0.996	ppbv	95
10) Heptane	8.17	43	23463m	0.137	ppbv	
11) Trichlorofluoromethane	3.95	101	39148	0.257	ppbv	93
13) Ethanol	3.59	45	1039873	65.405	ppbv	98
15) Acetone	3.84	43	793481	5.216	ppbv	93
20) Methylene Chloride	4.35	84	60470m	1.379	ppbv	
26) Hexane	5.71	57	102060	0.853	ppbv #	50
34) 2-Butanone	5.27	43	34754m	0.183	ppbv	
35) Carbon Tetrachloride	7.06	117	12098m	0.078	ppbv	
36) Benzene	6.92	78	56115m	0.273	ppbv	
44) 2,2,4-Trimethylpentane	7.91	57	205033	0.519	ppbv	92
53) Toluene	9.86	91	184639m	0.823	ppbv	
58) Ethyl Benzene	12.78	91	28868m	0.096	ppbv	
59) m/p-Xylene	13.03	91	82895m	0.331	ppbv	
60) o-Xylene	13.76	91	30908m	0.124	ppbv	
76) 1,4-Dichlorobenzene	17.22	146	35667m	0.224	ppbv	

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

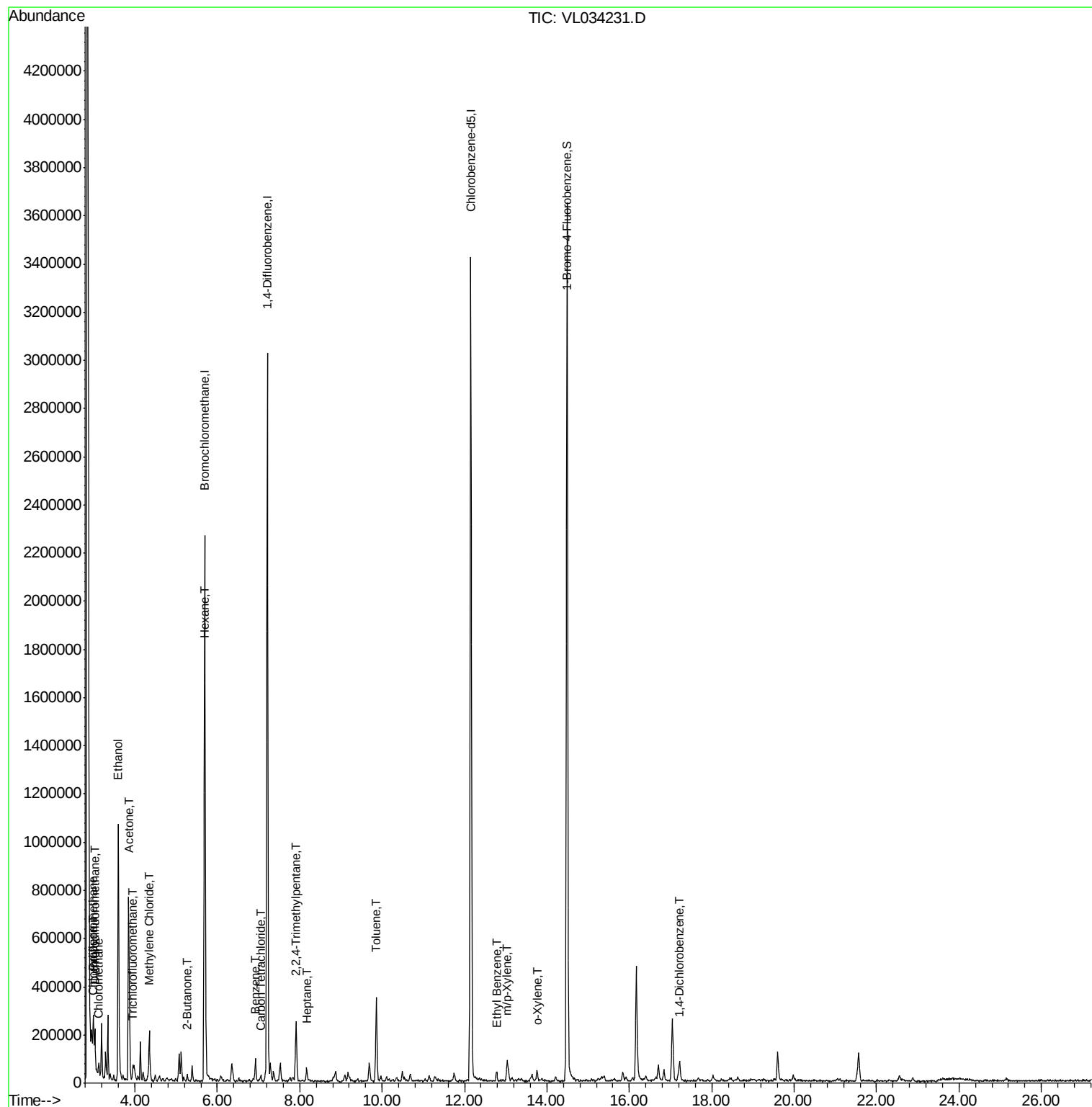
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034231.D
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Misc : 400ml/MSVOA_L
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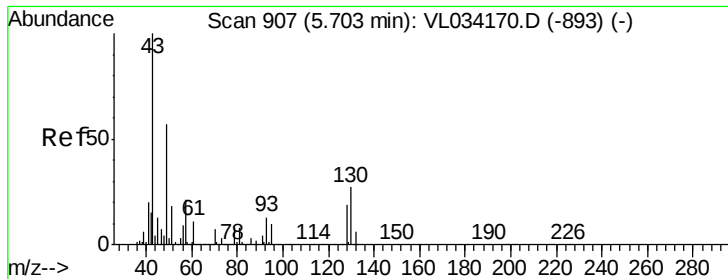
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
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10/11/2019 5:05:11 PM

Quant Time: Oct 10 20:33:32 2019
Quant Method : Z:\V0ASRV\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# 903

Delta R.T. -0.01 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 49 Resp: 1135004

Ion Ratio Lower Upper

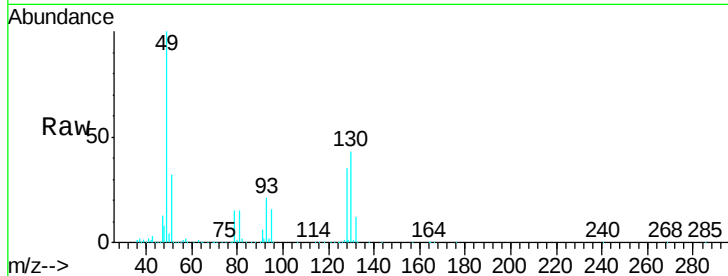
49 100

128 34.3 17.6 52.9

130 43.7 22.3 66.9

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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

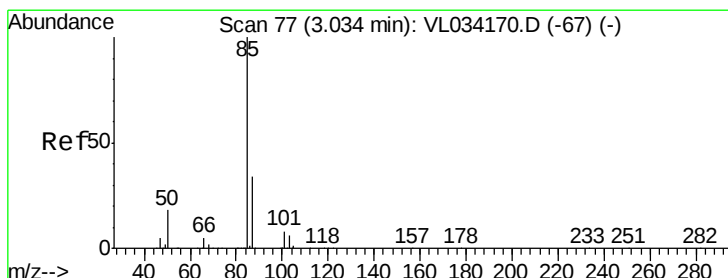
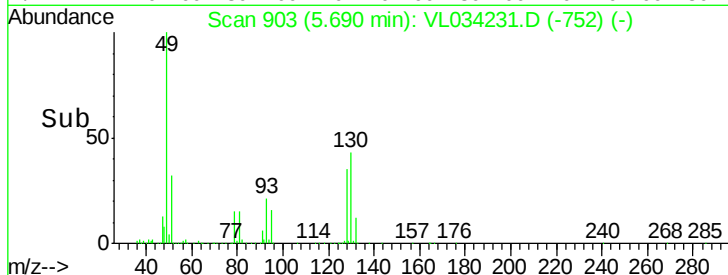
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.613 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034231.D

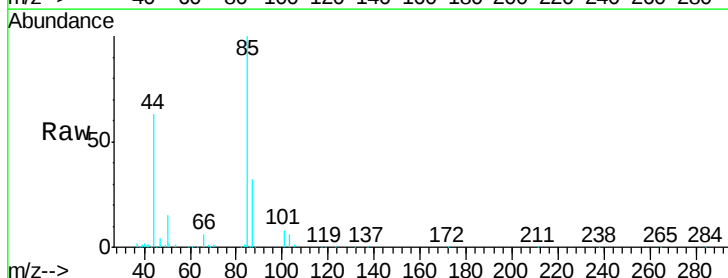
Acq: 7 Oct 2019 20:56

Tgt Ion: 85 Resp: 102759

Ion Ratio Lower Upper

85 100

87 31.8 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

100000

80000

60000

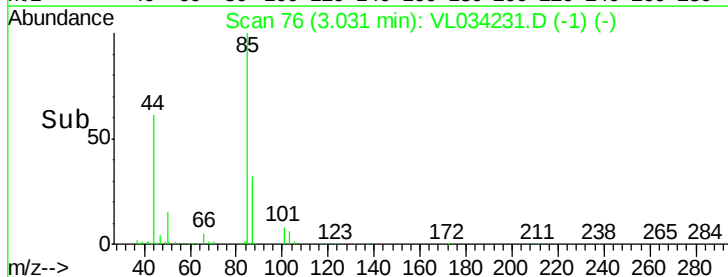
40000

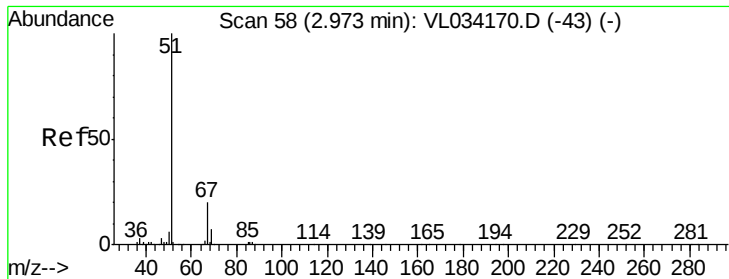
20000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.449 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 51 Resp: 59806

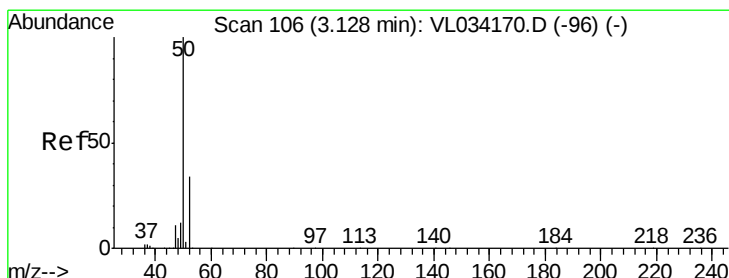
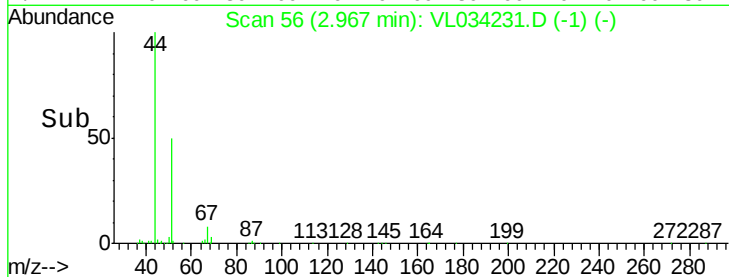
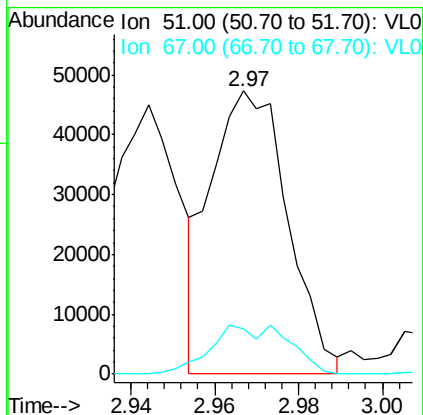
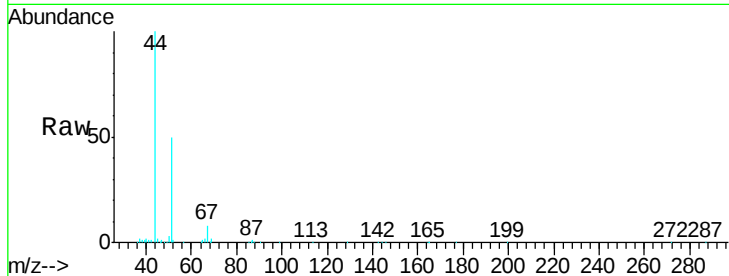
Ion Ratio Lower Upper

51 100

67 17.8 14.8 22.2

Manual Integrations
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#4

Chloromethane

Concen: 0.457 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL034231.D

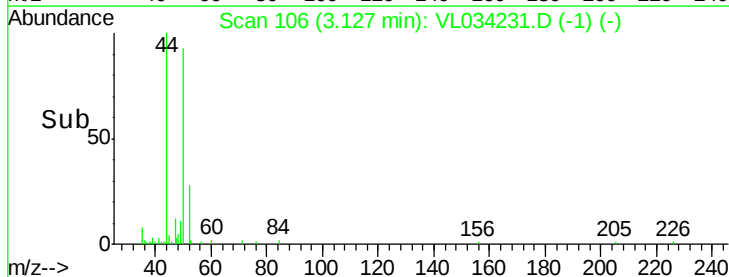
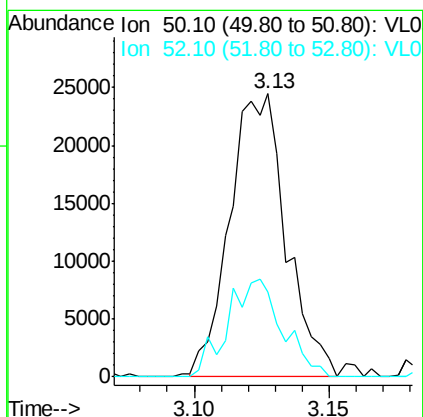
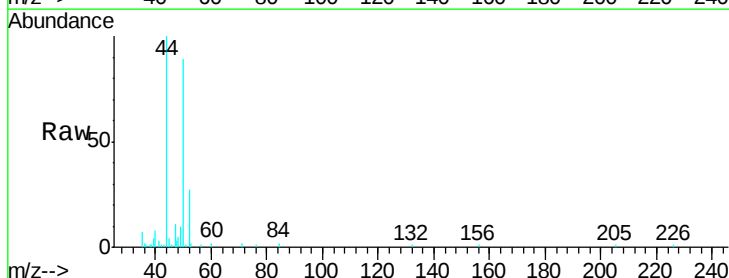
Acq: 7 Oct 2019 20:56

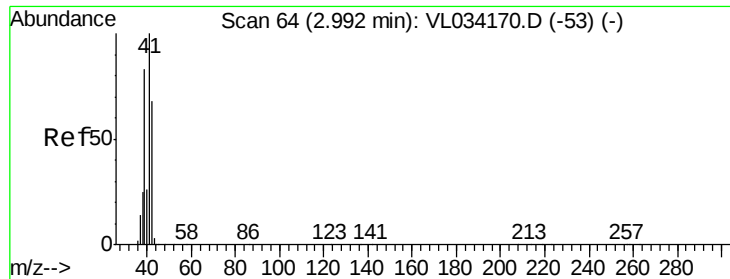
Tgt Ion: 50 Resp: 35708

Ion Ratio Lower Upper

50 100

52 30.1 27.1 40.7





#9

Propene

Concen: 0.996 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 41 Resp: 65371

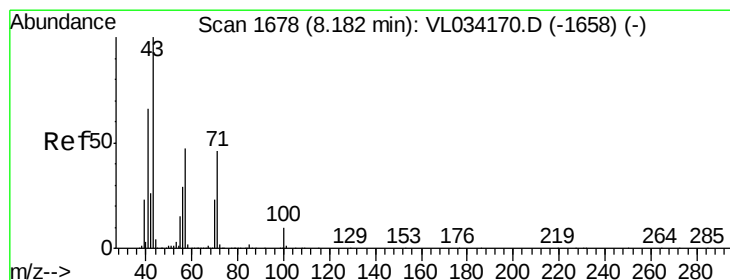
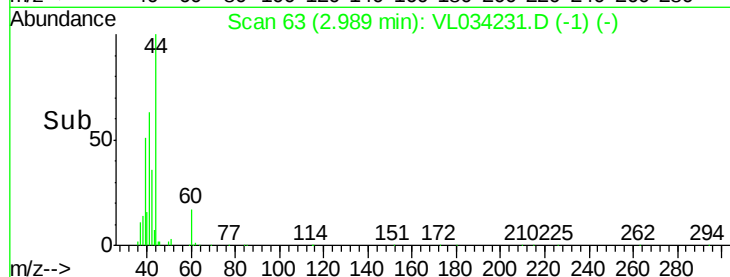
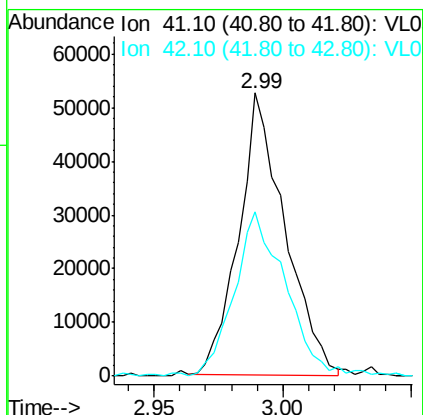
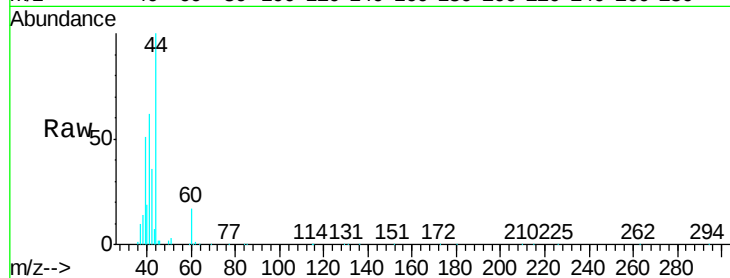
Ion Ratio Lower Upper

41 100

42 65.7 55.8 83.6

Manual Integrations
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#10

Heptane

Concen: 0.137 ppbv m

RT: 8.17 min Scan# 1675

Delta R.T. -0.01 min

Lab File: VL034231.D

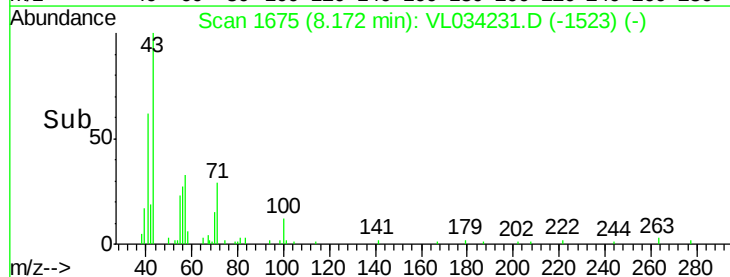
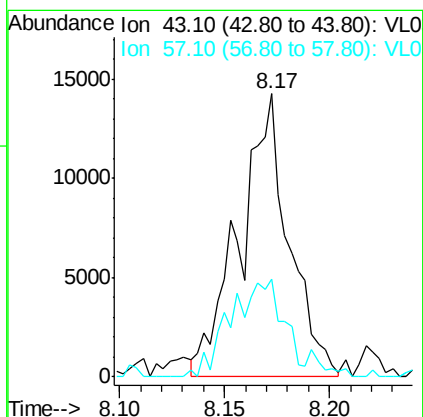
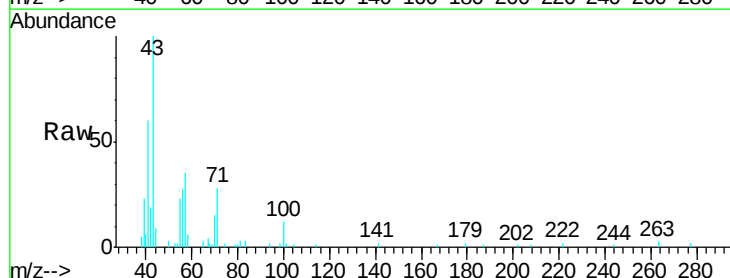
Acq: 7 Oct 2019 20:56

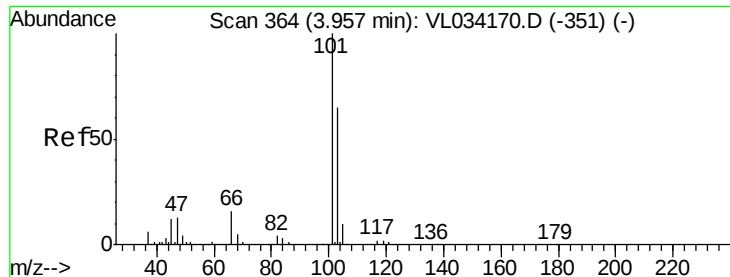
Tgt Ion: 43 Resp: 23463

Ion Ratio Lower Upper

43 100

57 39.8 37.5 56.3





#11

Trichlorofluoromethane

Concen: 0.257 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 101 Resp: 39148

Ion Ratio Lower Upper

101 100

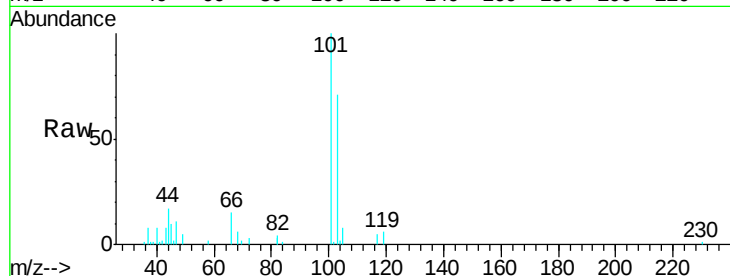
103 70.9 52.1 78.1

Manual Integrations

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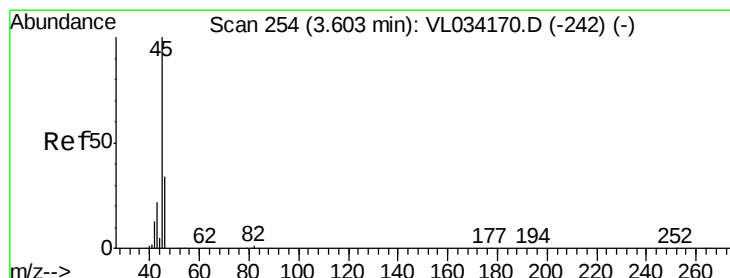
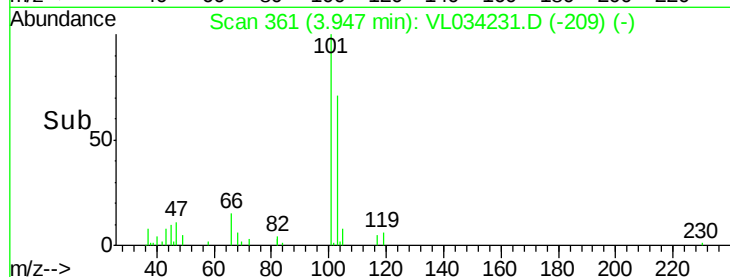
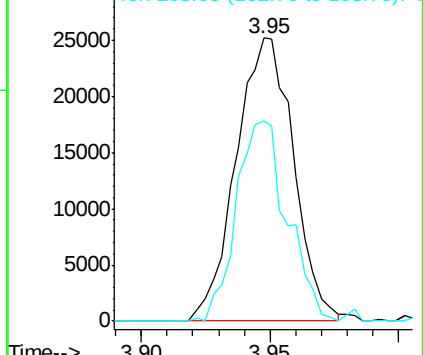
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 65.405 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL034231.D

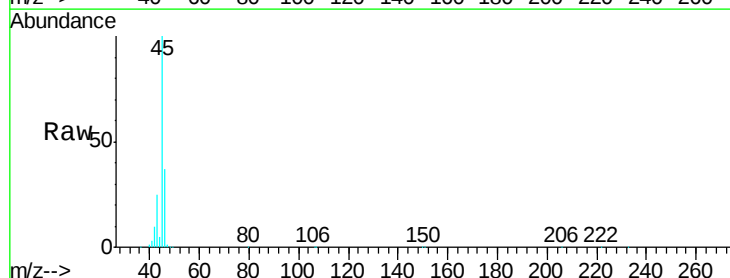
Acq: 7 Oct 2019 20:56

Tgt Ion: 45 Resp: 1039873

Ion Ratio Lower Upper

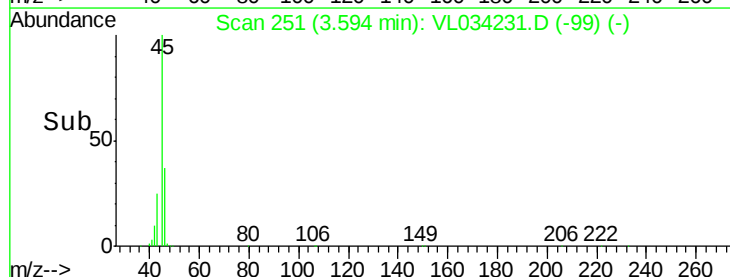
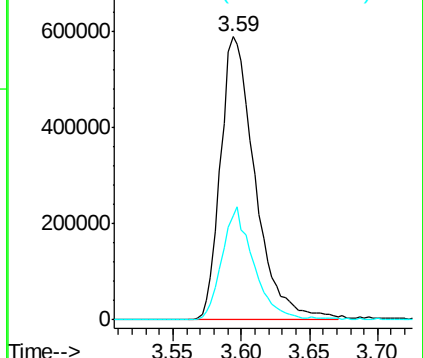
45 100

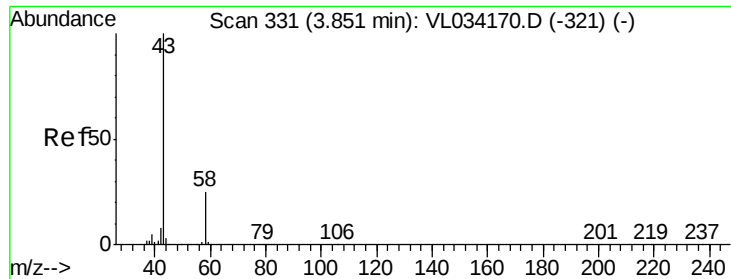
46 37.3 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.216 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

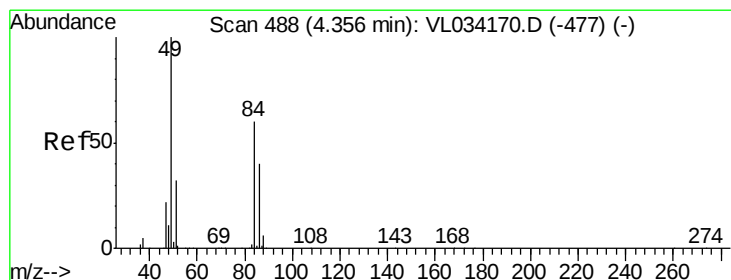
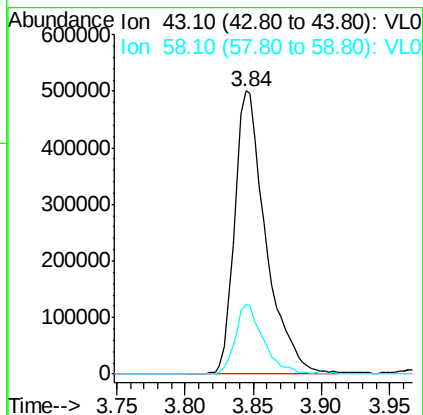
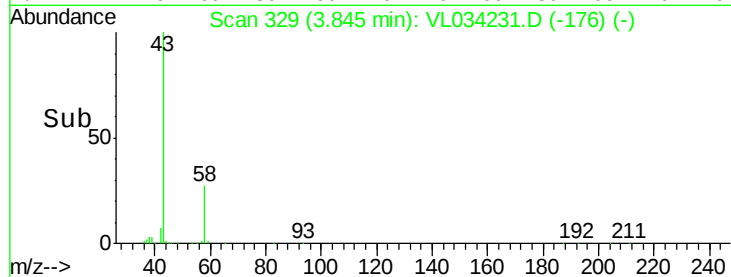
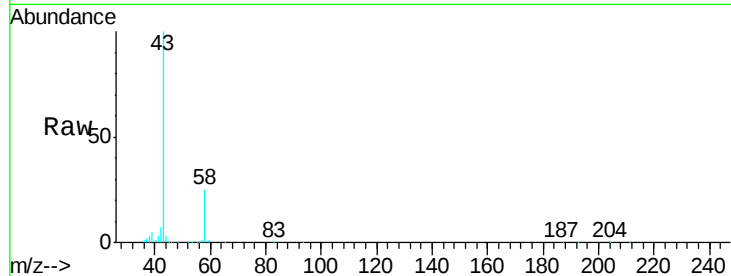
ClientSampled :

QA1

Tgt Ion: 43 Resp: 793481
 Ion Ratio Lower Upper
 43 100
 58 22.3 20.5 30.7

Manual Integrations
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#20

Methylene Chloride

Concen: 1.379 ppbv m

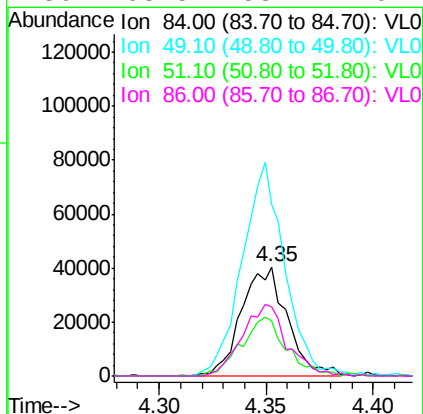
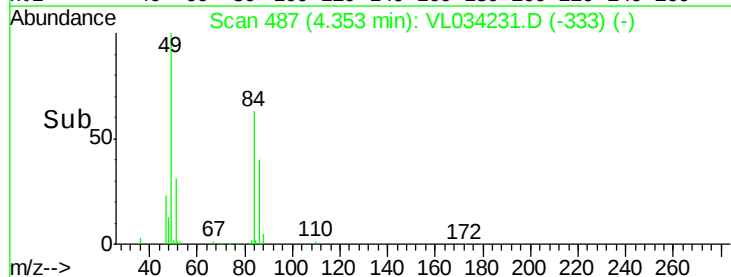
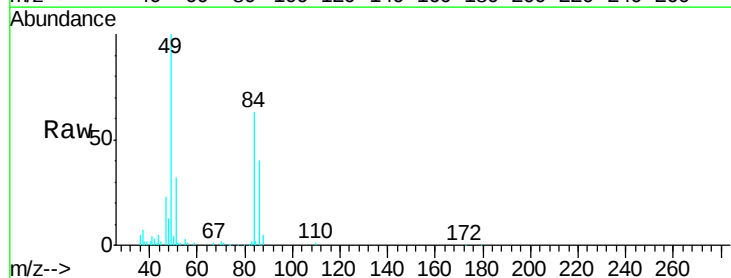
RT: 4.35 min Scan# 487

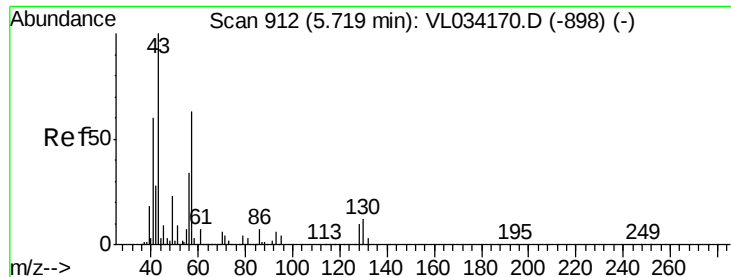
Delta R.T. -0.00 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Tgt Ion: 84 Resp: 60470
 Ion Ratio Lower Upper
 84 100
 49 157.6 133.8 200.8
 51 50.6 43.6 65.4
 86 63.5 53.1 79.7





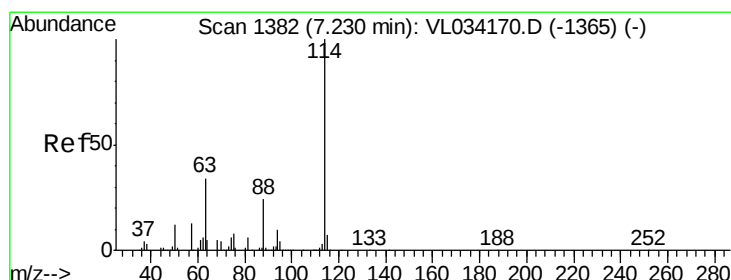
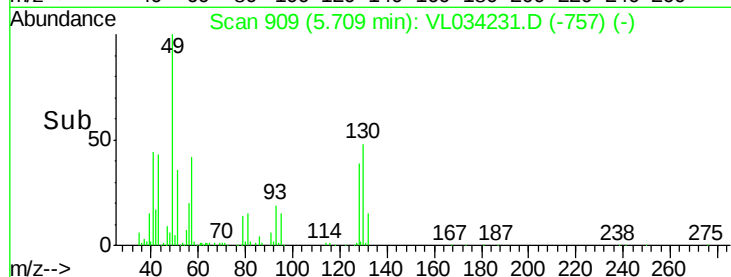
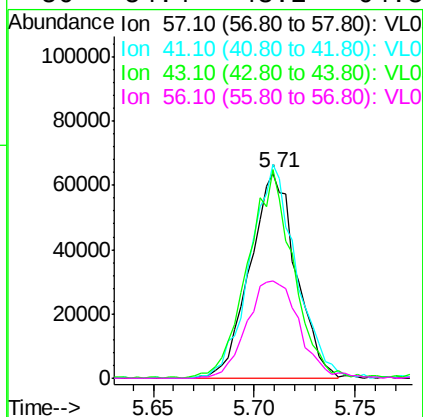
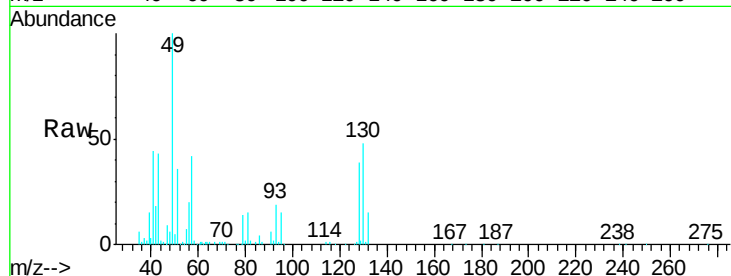
#26
Hexane
Concen: 0.853 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.1	78.5	117.7
43	102.9	189.5	284.3#
56	54.4	43.2	64.8

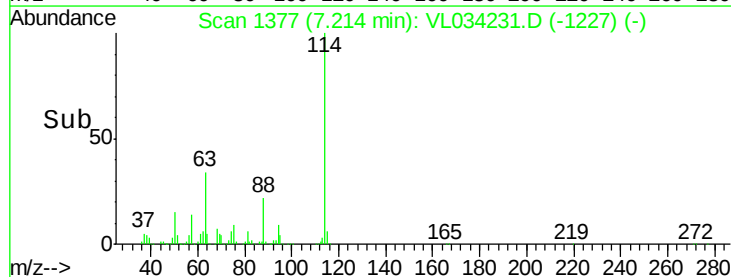
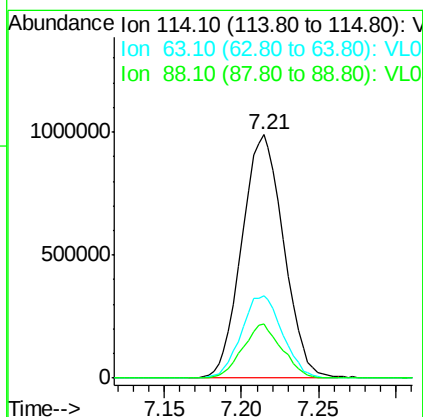
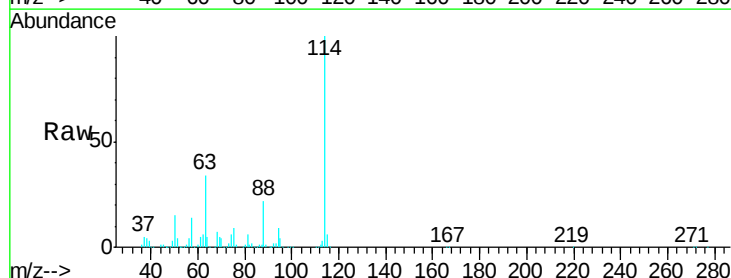
Manual Integrations
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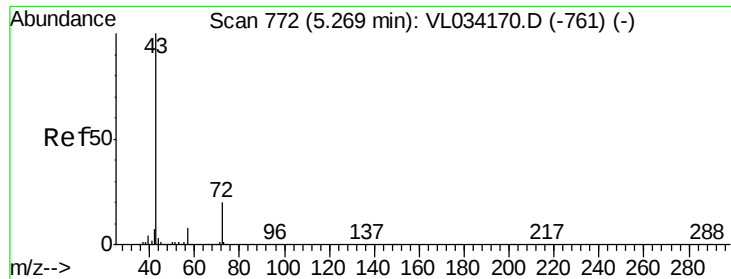
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.02 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	33.6	27.8	41.6
88	20.9	17.1	25.7





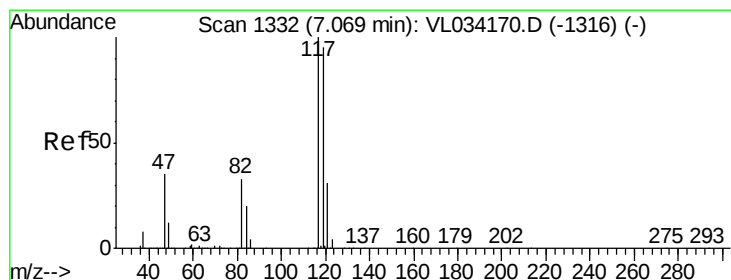
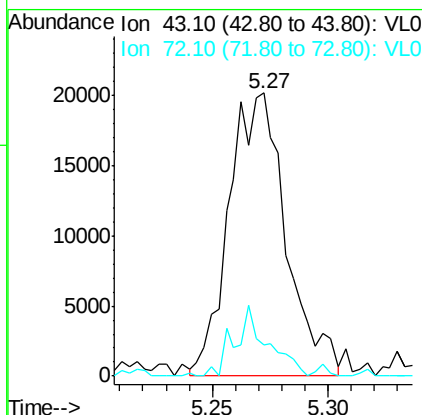
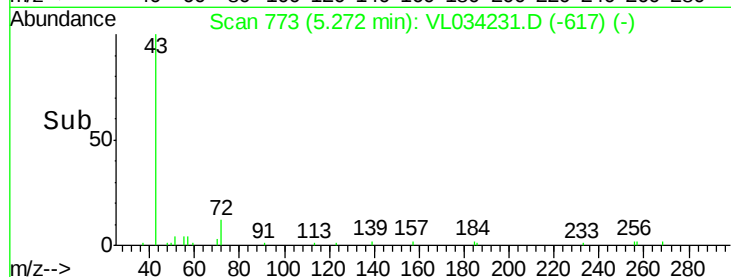
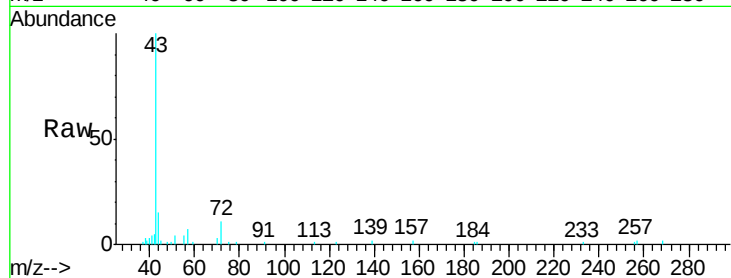
#34
2-Butanone
Concen: 0.183 ppbv m
RT: 5.27 min Scan# 773
Delta R.T. 0.00 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Instrument :
MSVOA_L
ClientSampled :
OA1

Tgt Ion: 43 Resp: 34754
Ion Ratio Lower Upper
43 100
72 15.5 15.0 22.6

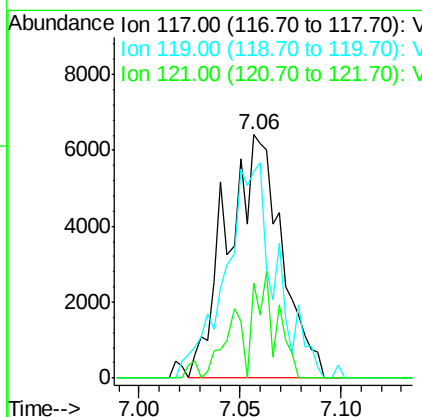
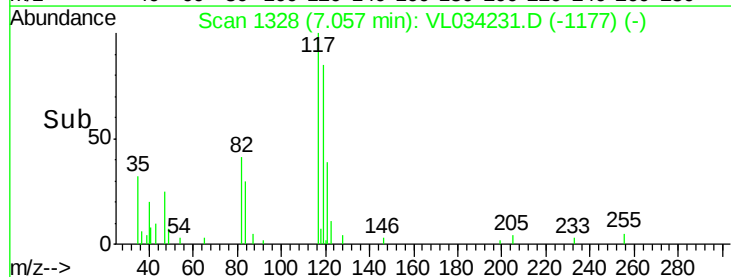
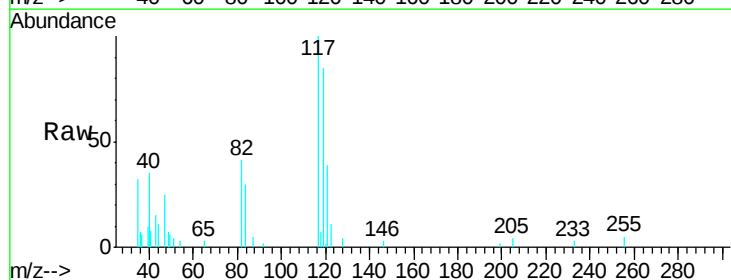
Manual Integrations
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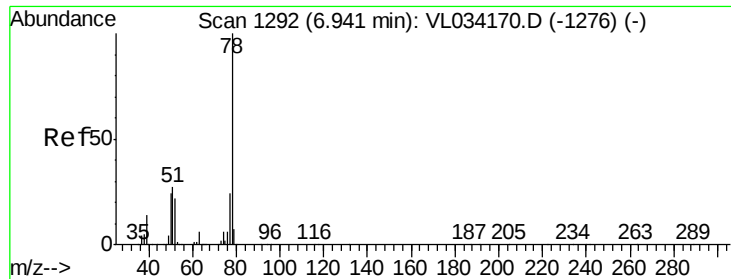
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#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 7.06 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Tgt Ion: 117 Resp: 12098
Ion Ratio Lower Upper
117 100
119 84.6 75.8 113.6
121 39.3 25.0 37.6#





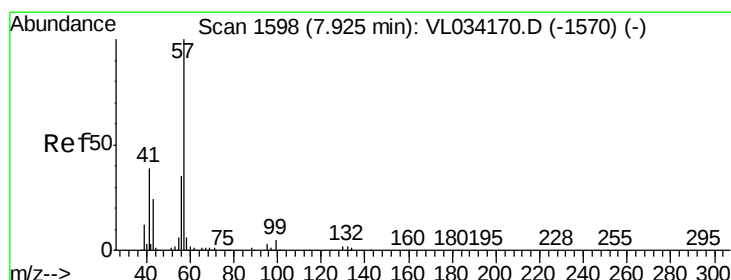
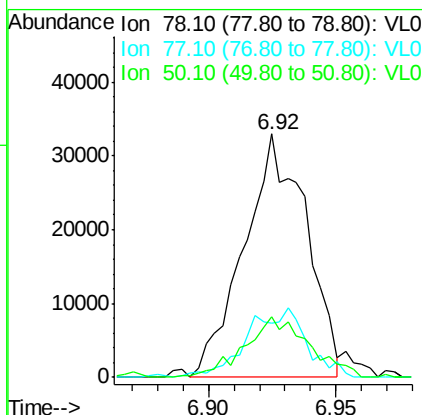
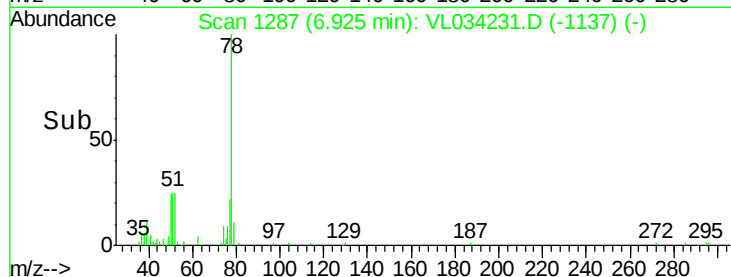
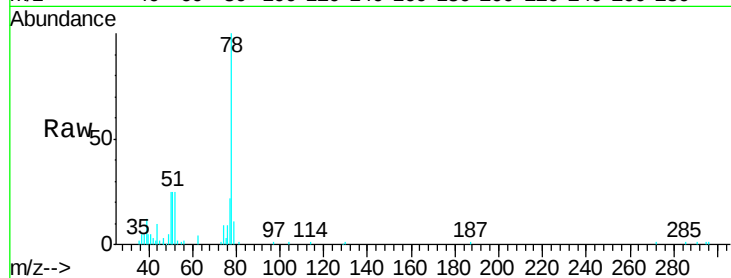
#36
Benzene
Concen: 0.273 ppbv m
RT: 6.92 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.0	28.4
50	24.9	18.9	28.3

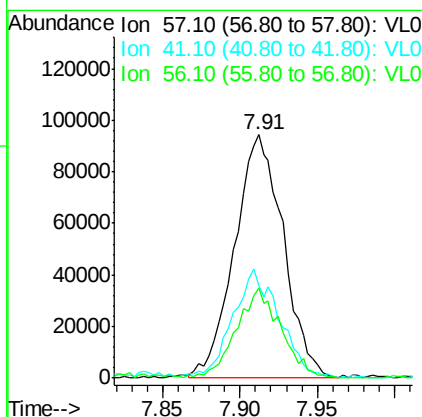
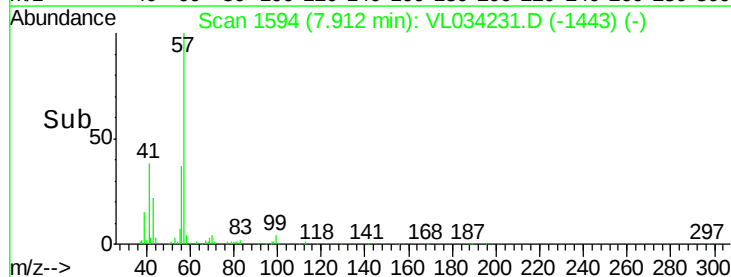
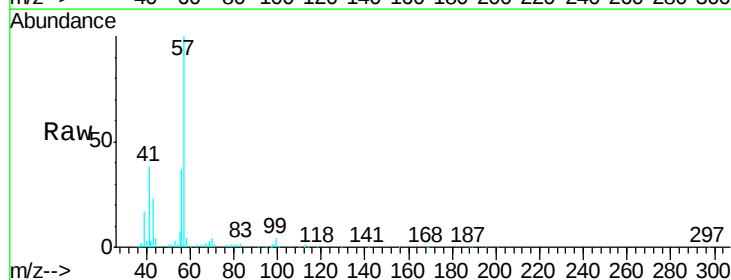
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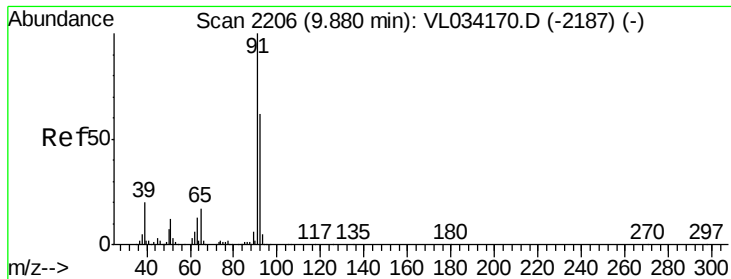
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 7.91 min Scan# 1594
Delta R.T. -0.01 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.9	29.8	44.6
56	34.5	25.9	38.9





#53

Toluene

Concen: 0.823 ppbv m

RT: 9.86 min Scan# 2199

Delta R.T. -0.02 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampled :

QA1

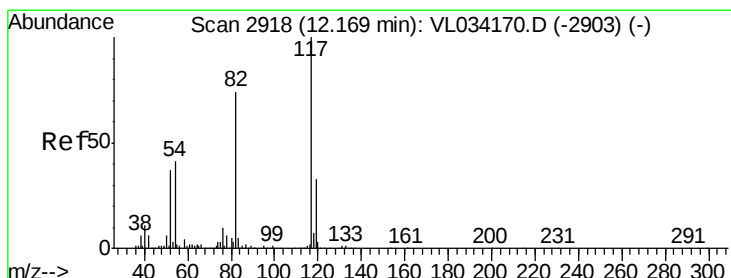
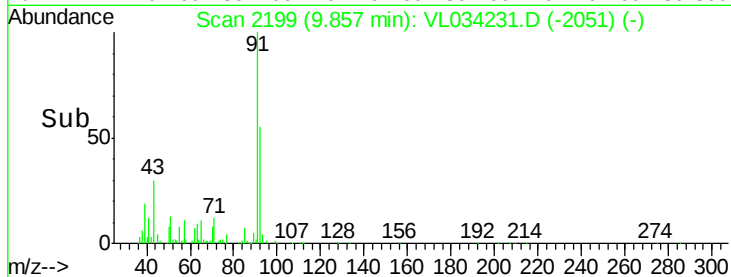
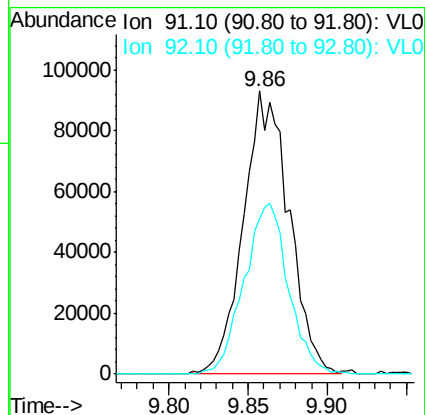
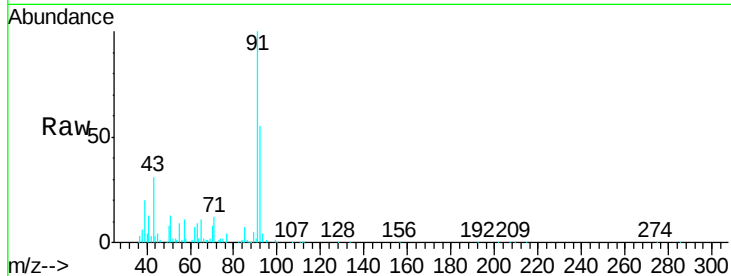
Tgt Ion: 91 Resp: 184639
Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034231.D

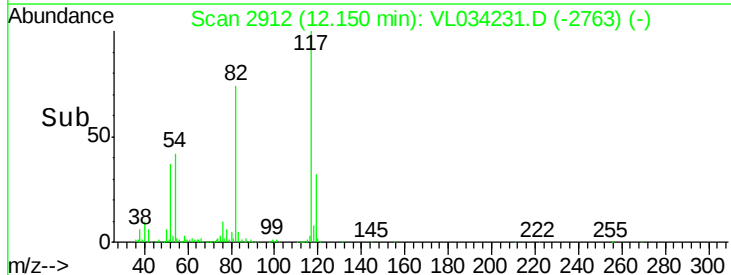
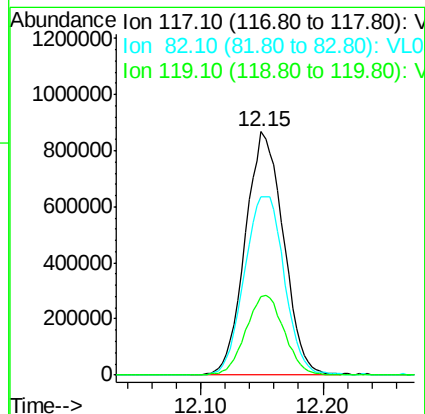
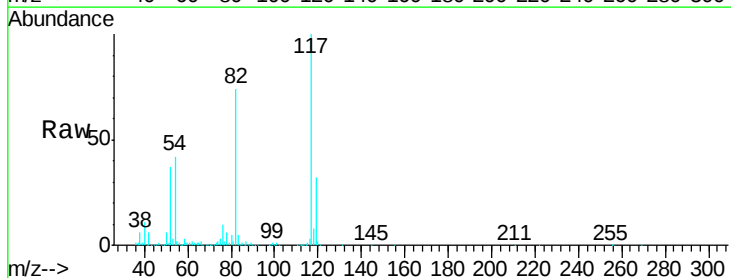
Acq: 7 Oct 2019 20:56

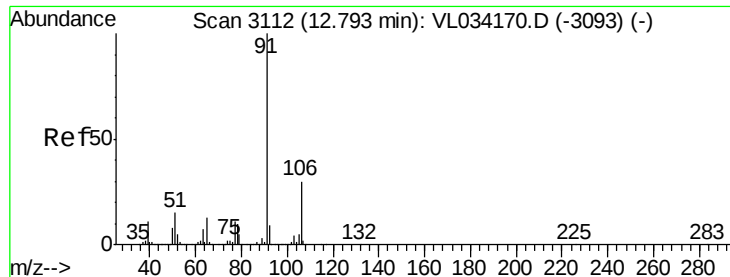
Tgt Ion: 117 Resp: 1872753
Ion Ratio Lower Upper

117 100

82 77.4 58.2 87.4

119 33.0 23.7 35.5





#58

Ethyl Benzene

Concen: 0.096 ppbv m

RT: 12.78 min Scan# 3108

Delta R.T. -0.01 min

Lab File: VL034231.D

Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampled :

QA1

Tgt Ion: 91 Resp: 28868

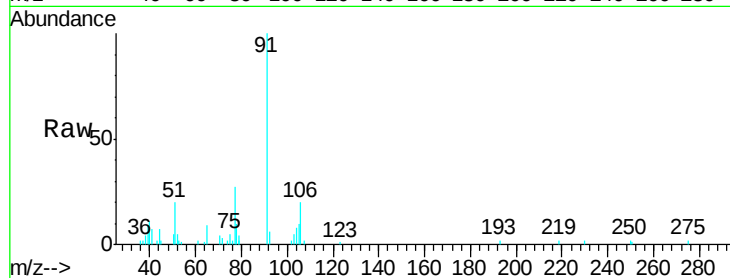
Ion Ratio Lower Upper

91 100

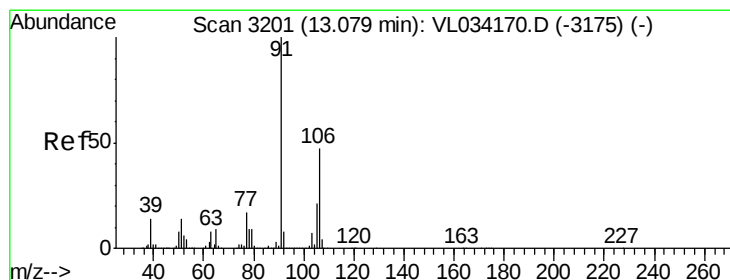
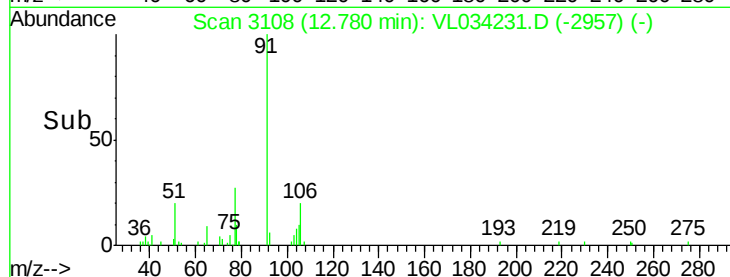
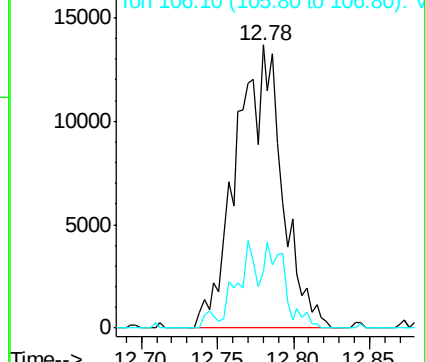
106 20.2 24.2 36.4#

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Abundance Ion 91.10 (90.80 to 91.80): VL0



#59

m/p-Xylene

Concen: 0.331 ppbv m

RT: 13.03 min Scan# 3187

Delta R.T. -0.05 min

Lab File: VL034231.D

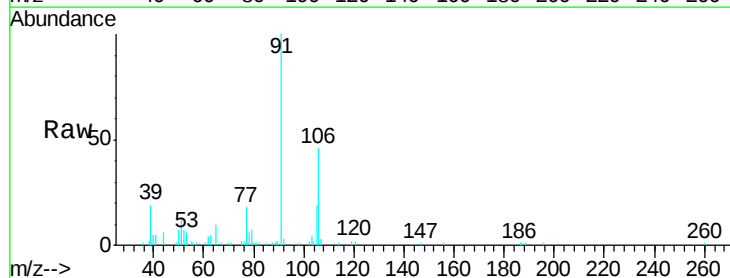
Acq: 7 Oct 2019 20:56

Tgt Ion: 91 Resp: 82895

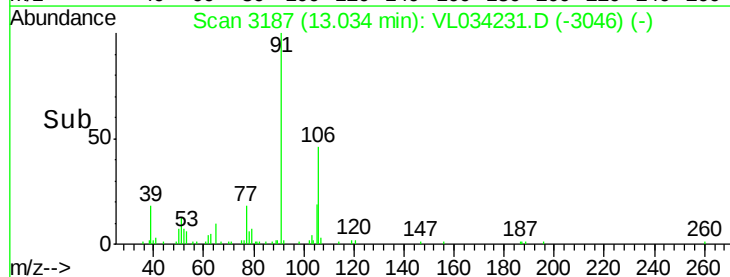
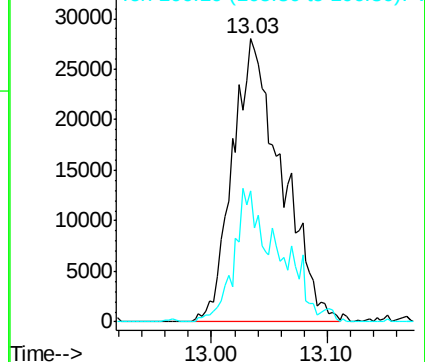
Ion Ratio Lower Upper

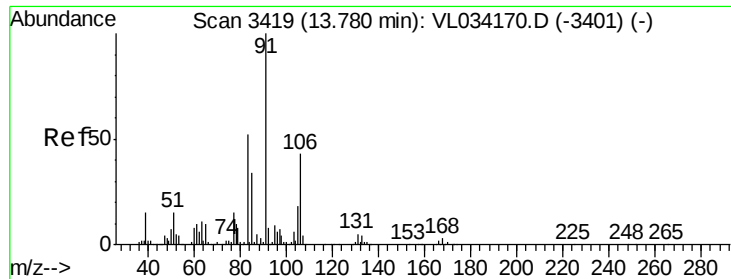
91 100

106 0.0 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0





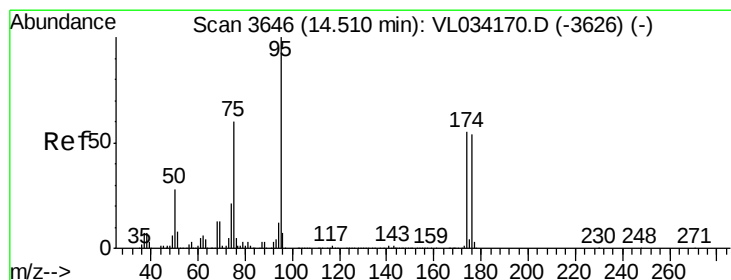
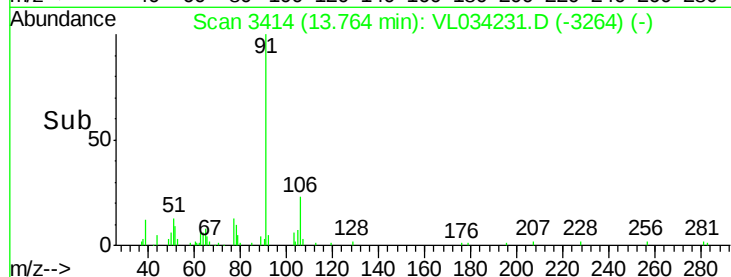
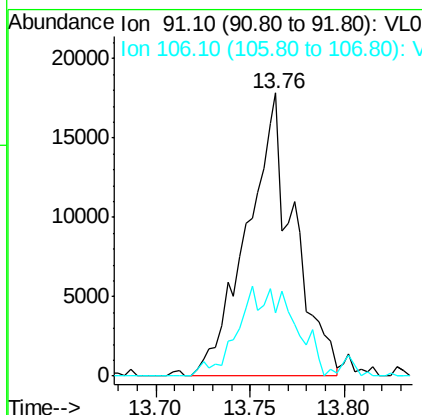
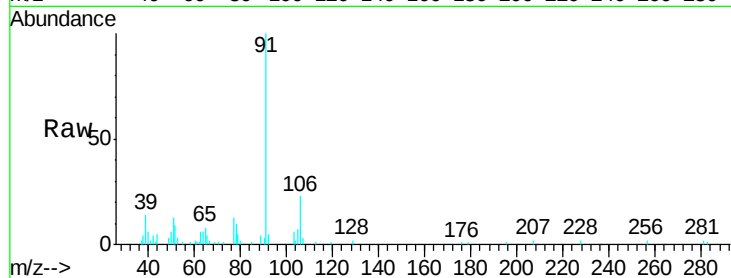
#60
o-Xylene
Concen: 0.124 ppbv m
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tgt Ion: 91 Resp: 30908
Ion Ratio Lower Upper
91 100
106 39.8 21.2 63.6

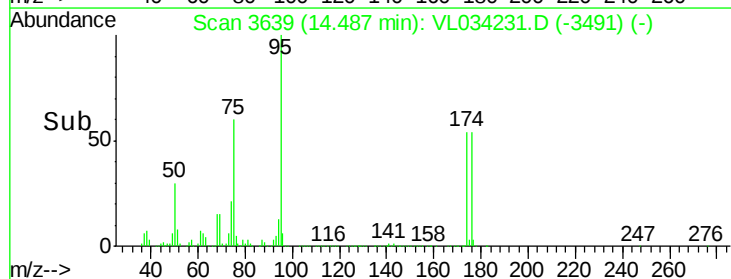
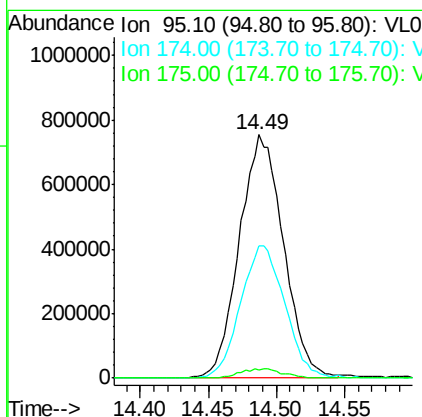
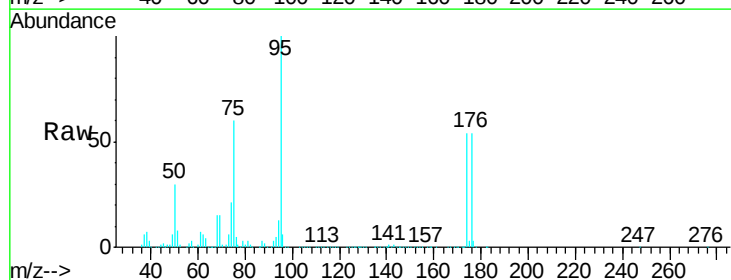
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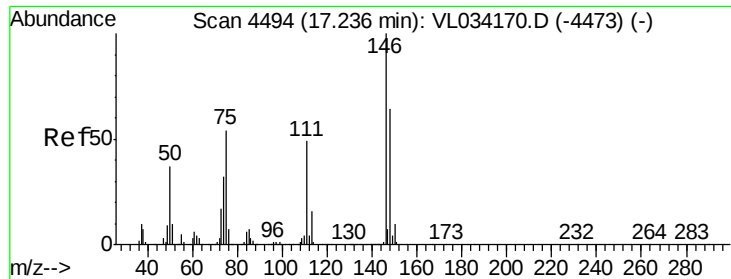
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.384 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034231.D
Acq: 7 Oct 2019 20:56

Tgt Ion: 95 Resp: 1689706
Ion Ratio Lower Upper
95 100
174 55.0 45.1 67.7
175 3.9 3.3 4.9





#76

1,4-Dichlorobenzene

Concen: 0.224 ppbv m

RT: 17.22 min Scan# 4489

Delta R.T. -0.02 min

Lab File: VL034231.D

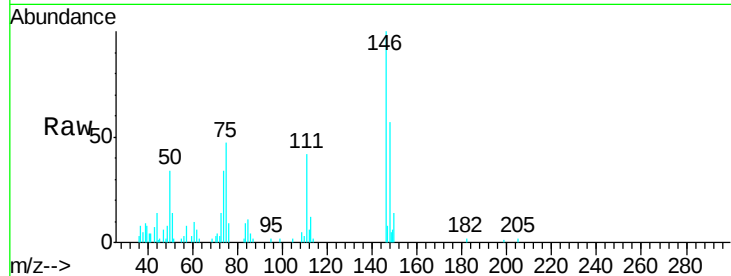
Acq: 7 Oct 2019 20:56

Instrument :

MSVOA_L

ClientSampleId :

QA1



Tgt Ion:	146	Resp:	35667
Ion Ratio	Lower	Upper	
146	100		
111	52.9	24.6	74.0
148	64.3	32.4	97.0

Manual Integrations
APPROVED

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10/11/2019 5:05:11 PM

