

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034227.D
 Acq On : 7 Oct 2019 18:18
 Operator : SY/AP
 Sample : K5225-01DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DUP

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:04:50 PM

Quant Time: Oct 09 03:21:16 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	1179740	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1949343	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1959737	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1761321	10.34	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	39541	0.227	ppbv	90
3) Chlorodifluoromethane	2.97	51	1389225	10.043	ppbv	99
4) Chloromethane	3.12	50	37036	0.456	ppbv	99
9) Propene	3.00	41	69974	1.025	ppbv #	74
11) Trichlorofluoromethane	3.95	101	48564	0.306	ppbv #	80
13) Ethanol	3.59	45	1092784	66.126	ppbv	99
15) Acetone	3.84	43	929570	5.879	ppbv	97
19) Isopropyl Alcohol	3.97	45	363875	3.742	ppbv #	98
20) Methylene Chloride	4.35	84	100018	2.194	ppbv	93
26) Hexane	5.71	57	121815m	0.979	ppbv	
34) 2-Butanone	5.26	43	85566	0.430	ppbv	97
35) Carbon Tetrachloride	7.05	117	11530m	0.071	ppbv	
36) Benzene	6.92	78	30756	0.143	ppbv #	88
44) 2,2,4-Trimethylpentane	7.91	57	50603	0.122	ppbv #	82
53) Toluene	9.86	91	118723	0.505	ppbv	95
76) 1,4-Dichlorobenzene	17.22	146	1376418	8.253	ppbv	99
79) Naphthalene	22.31	128	50924m	0.191	ppbv	

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

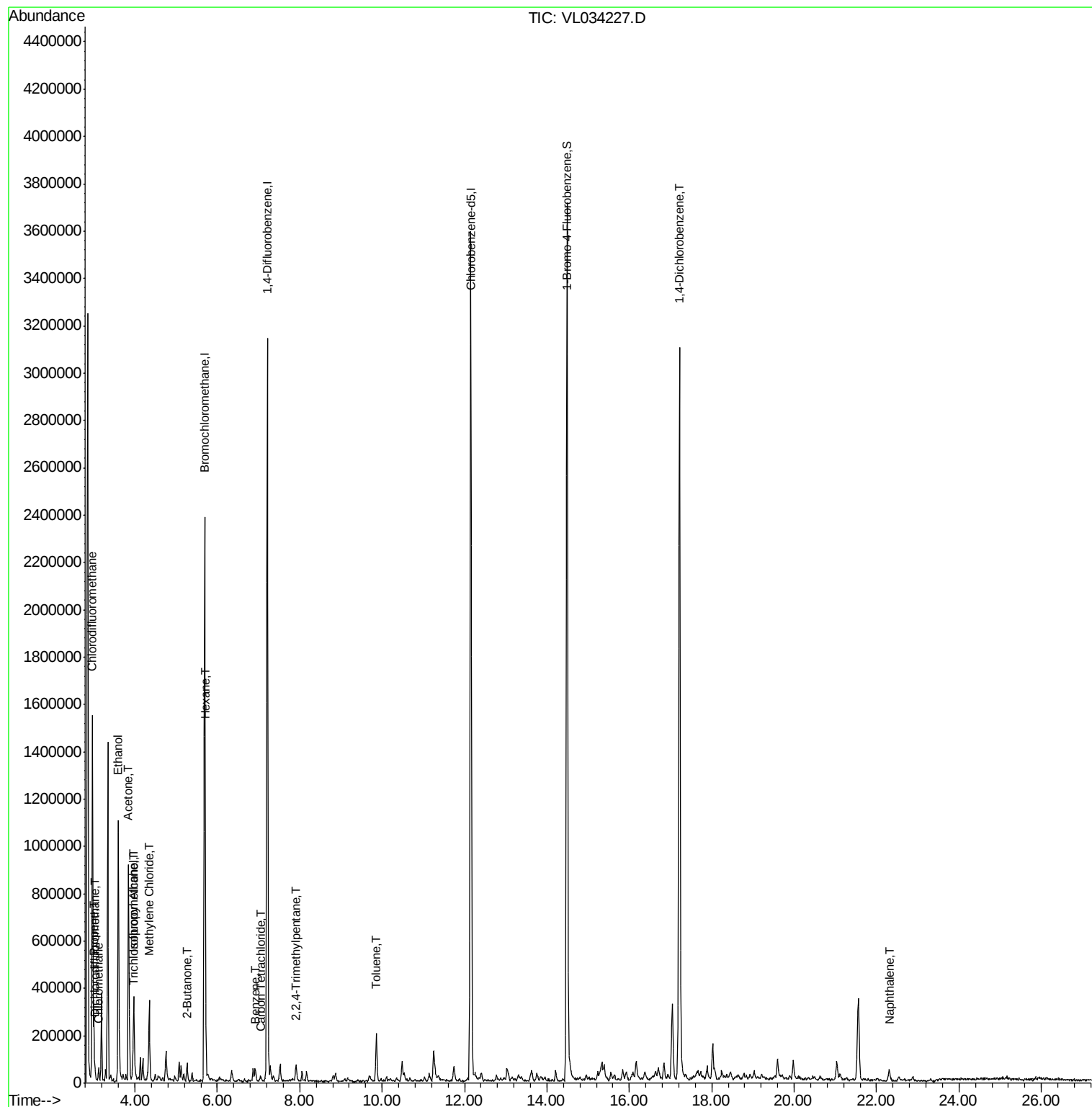
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034227.D
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

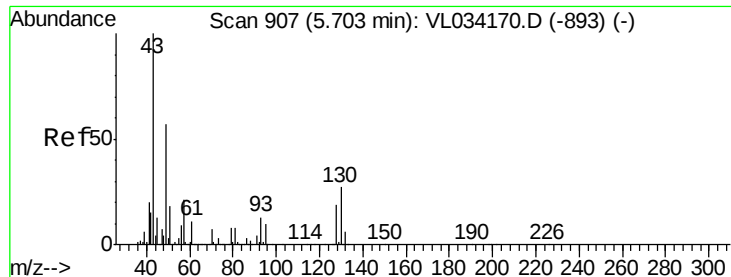
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

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Quant Time: Oct 09 03:21:16 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: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion: 49 Resp: 1179740

Ion Ratio Lower Upper

49 100

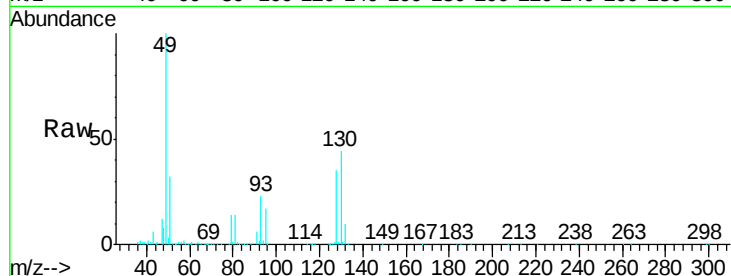
128 35.2 17.6 52.9

130 43.7 22.3 66.9

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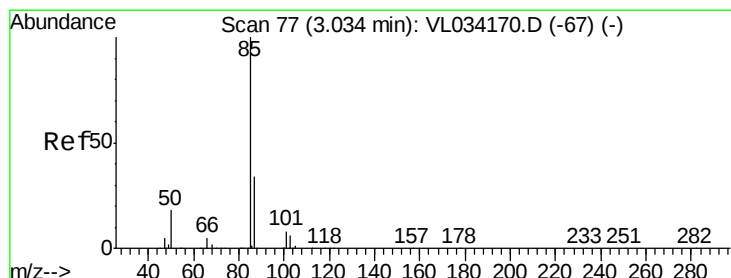
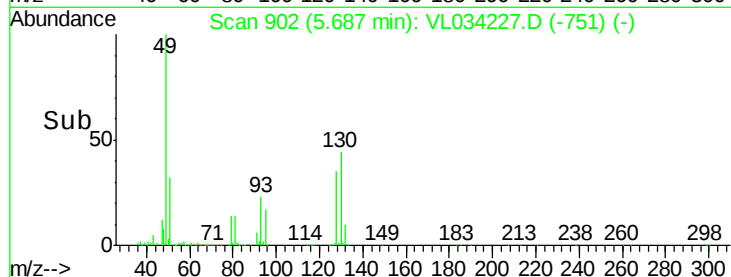
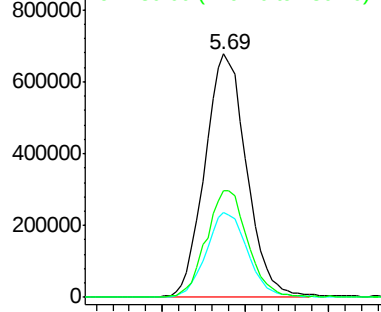
10/11/2019 5:04:50 PM



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: 0.227 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034227.D

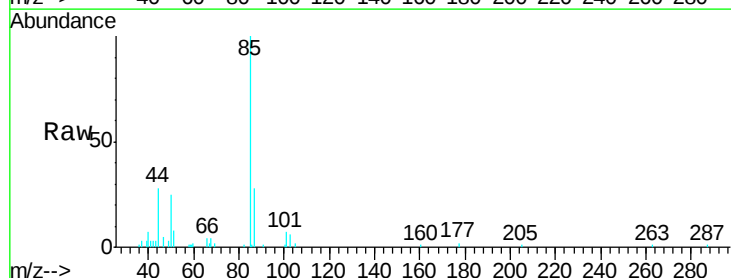
Acq: 7 Oct 2019 18:18

Tgt Ion: 85 Resp: 39541

Ion Ratio Lower Upper

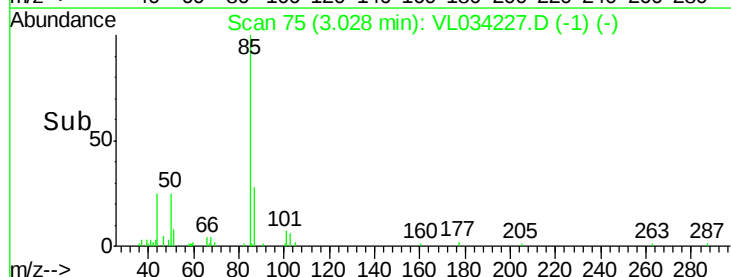
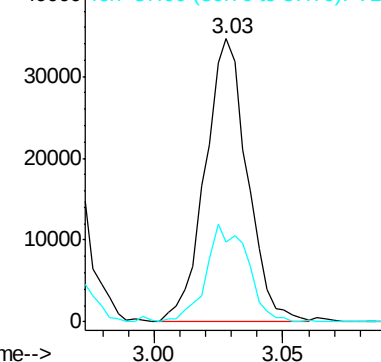
85 100

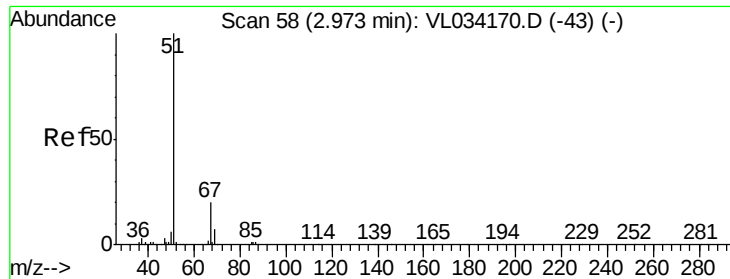
87 28.1 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.043 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion: 51 Resp: 1389225

Ion Ratio Lower Upper

51 100

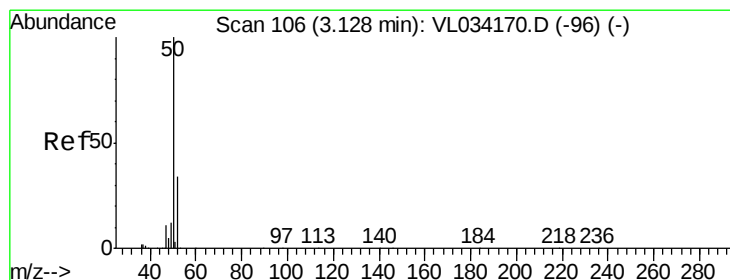
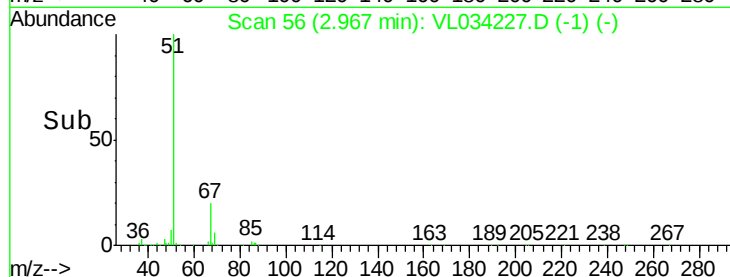
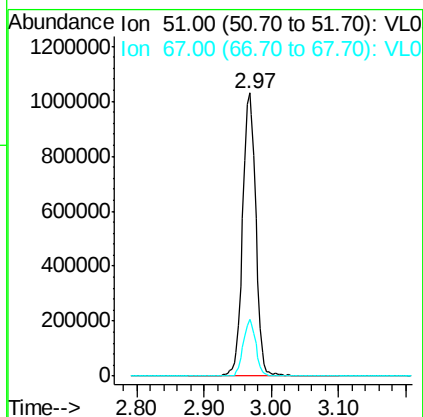
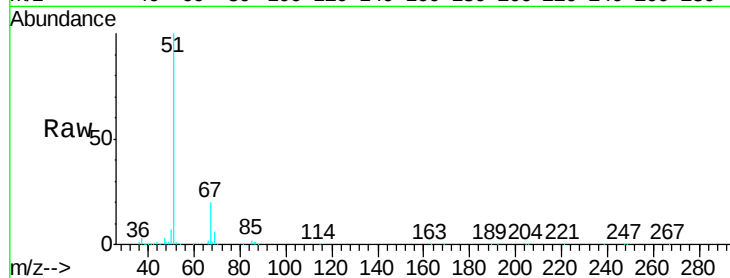
67 19.0 14.8 22.2

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#4

Chloromethane

Concen: 0.456 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034227.D

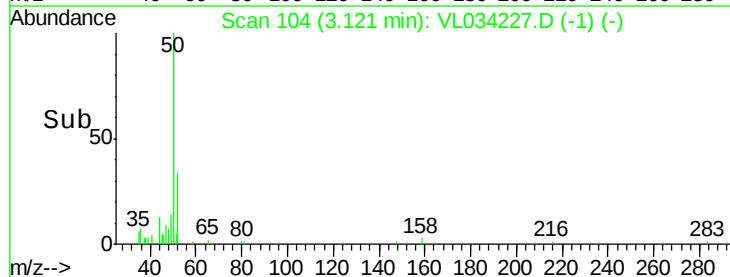
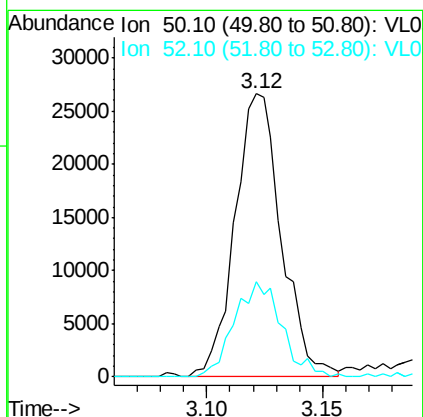
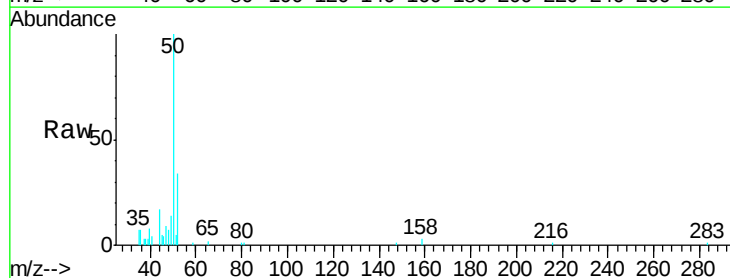
Acq: 7 Oct 2019 18:18

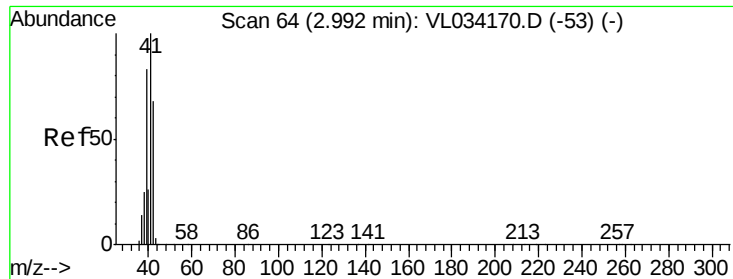
Tgt Ion: 50 Resp: 37036

Ion Ratio Lower Upper

50 100

52 34.2 27.1 40.7





#9

Propene

Concen: 1.025 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

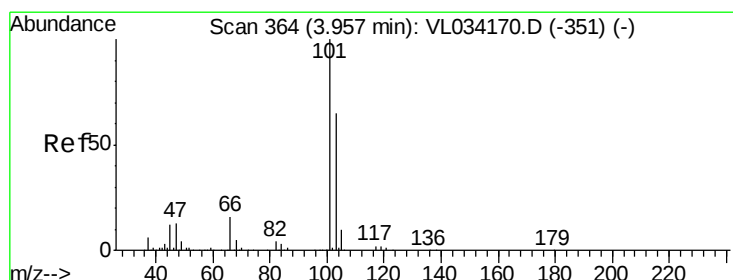
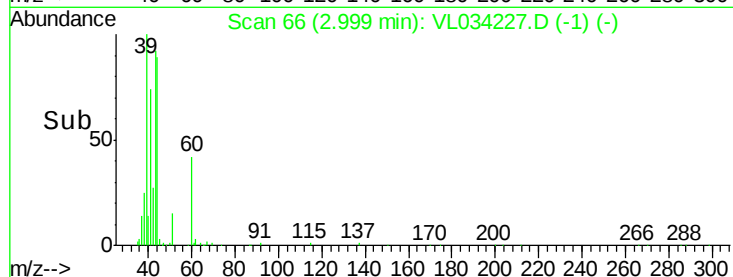
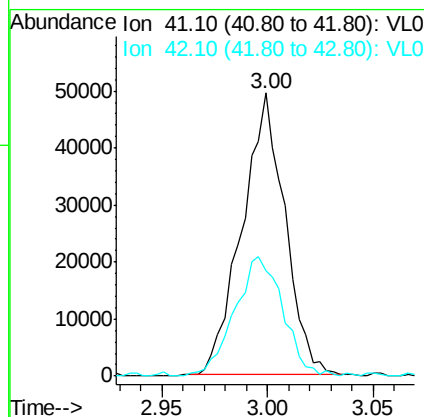
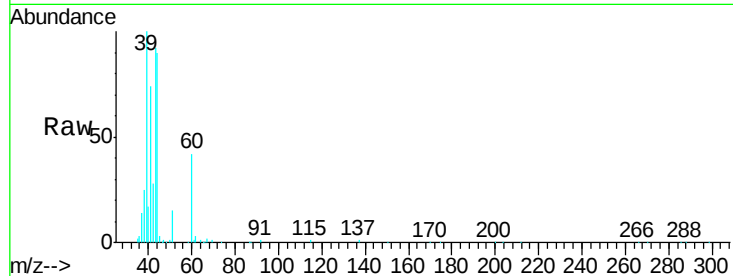
ClientSampleId :

IA4DUP

Tgt Ion: 41 Resp: 69974
 Ion Ratio Lower Upper
 41 100
 42 48.2 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.306 ppbv

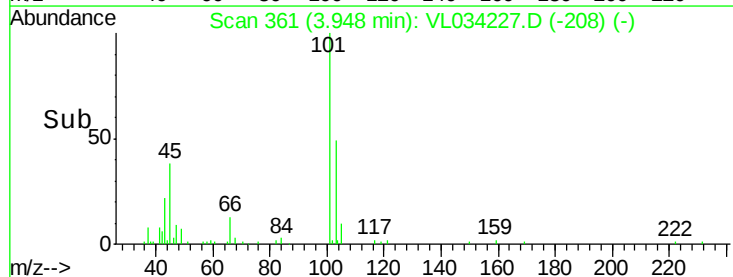
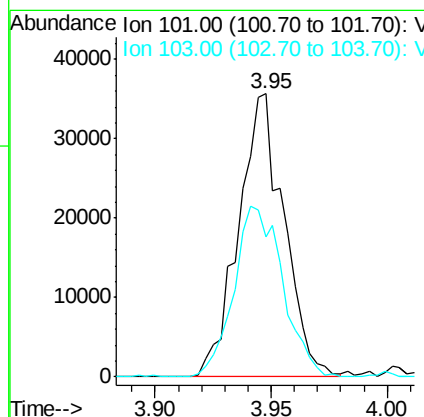
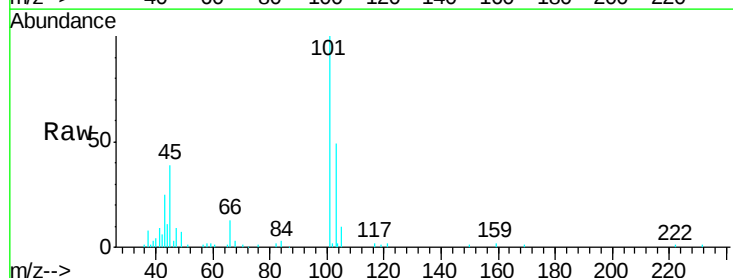
RT: 3.95 min Scan# 361

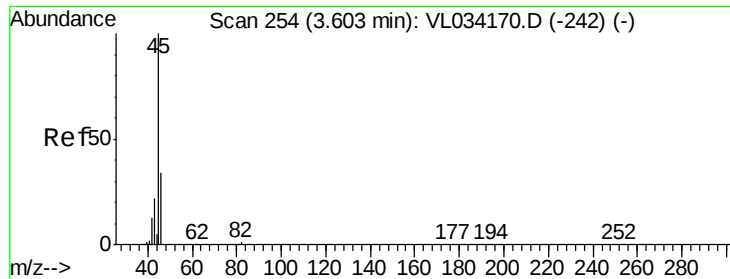
Delta R.T. -0.01 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Tgt Ion: 101 Resp: 48564
 Ion Ratio Lower Upper
 101 100
 103 49.4 52.1 78.1#





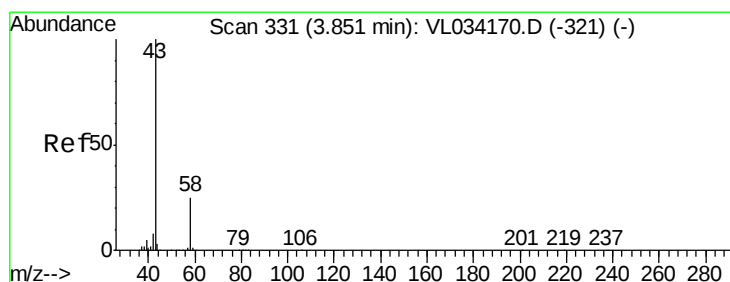
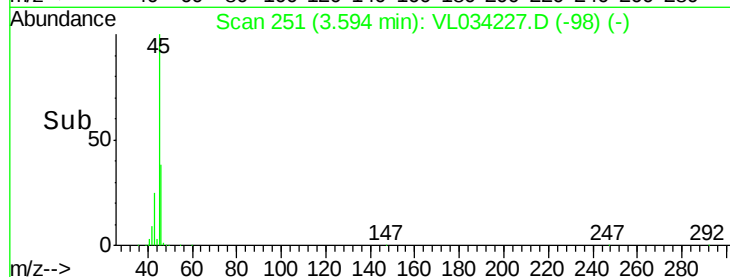
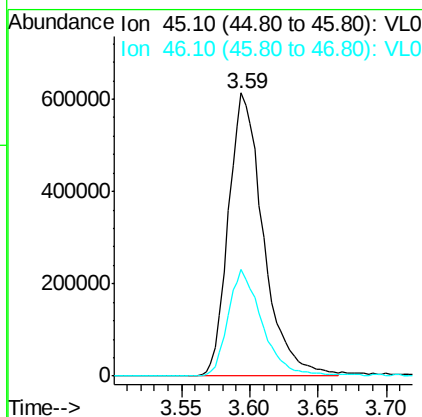
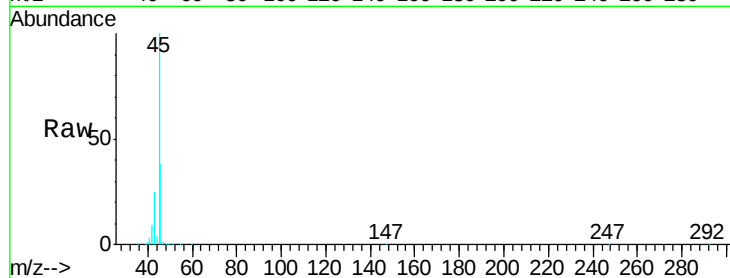
#13
Ethanol
Concen: 66.126 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL034227.D
Acq: 7 Oct 2019 18:18

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion: 45 Resp: 1092784
Ion Ratio Lower Upper
45 100
46 37.9 15.5 61.9

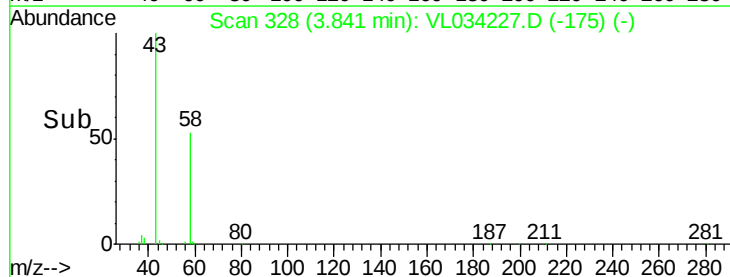
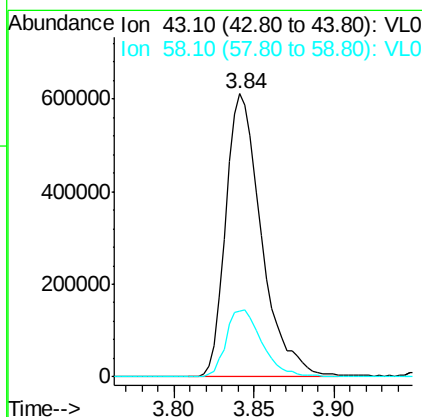
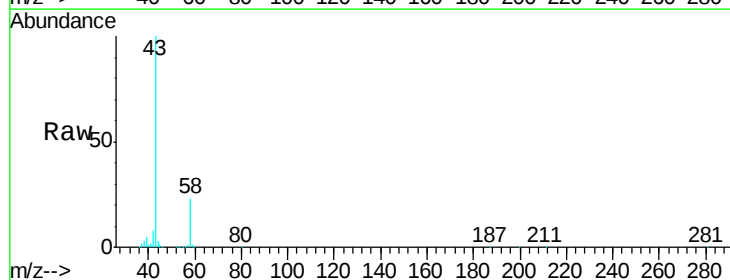
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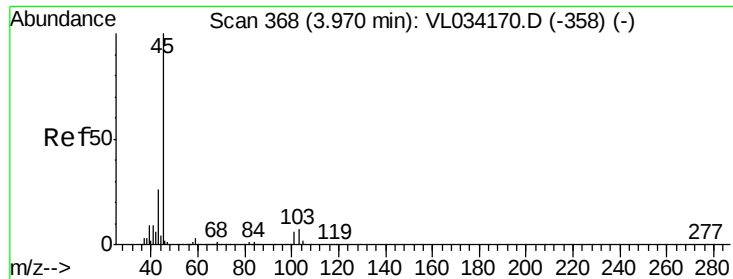
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#15
Acetone
Concen: 5.879 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL034227.D
Acq: 7 Oct 2019 18:18

Tgt Ion: 43 Resp: 929570
Ion Ratio Lower Upper
43 100
58 24.0 20.5 30.7





#19

Isopropyl Alcohol

Concen: 3.742 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

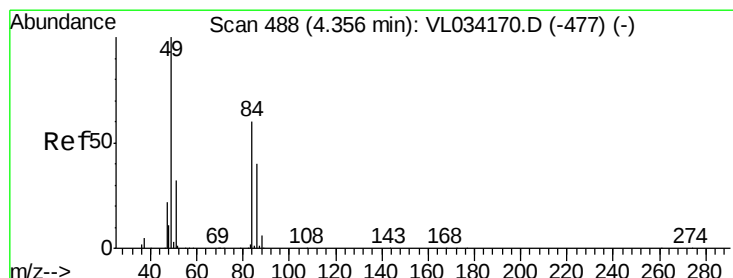
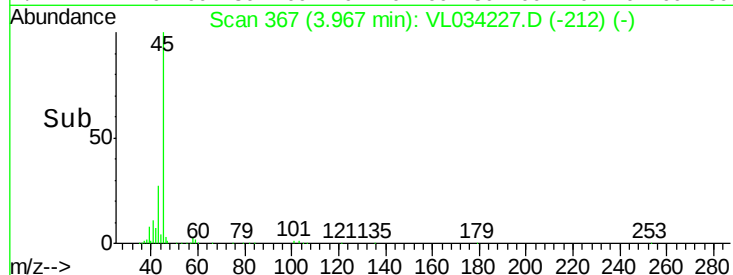
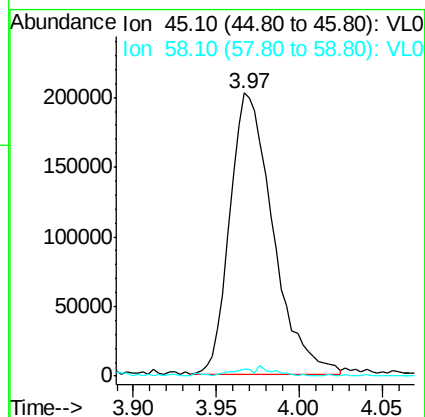
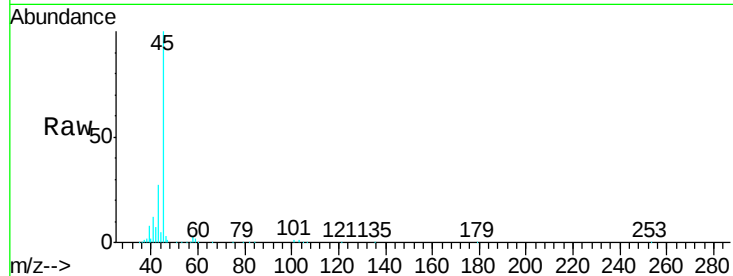
Tgt Ion: 45 Resp: 363875
Ion Ratio Lower Upper

45 100

58 2.4 1.4 2.0#

Manual Integrations
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#20

Methylene Chloride

Concen: 2.194 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

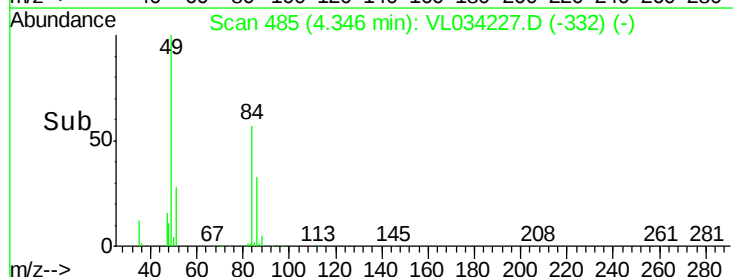
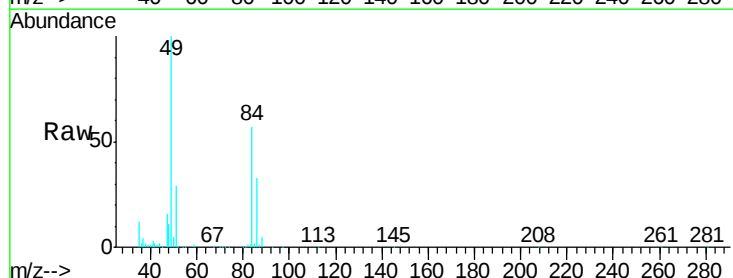
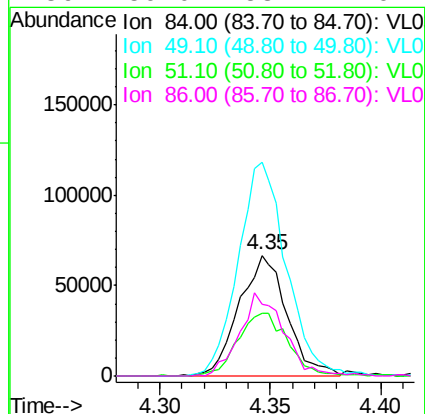
Tgt Ion: 84 Resp: 100018
Ion Ratio Lower Upper

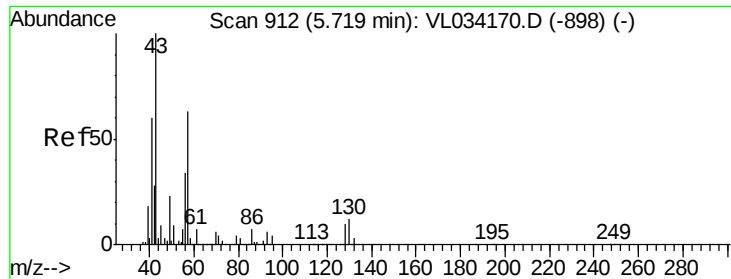
84 100

49 175.9 133.8 200.8

51 51.4 43.6 65.4

86 59.0 53.1 79.7





#26

Hexane

Concen: 0.979 ppbv m

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034227.D

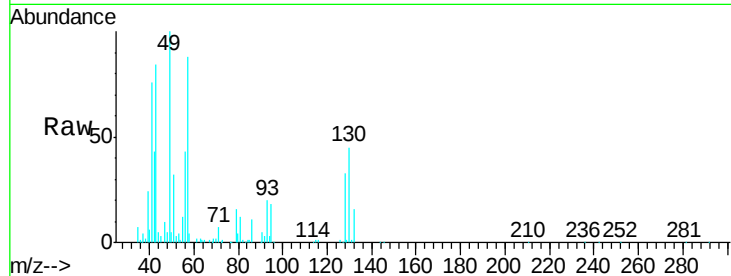
Acq: 7 Oct 2019 18:18

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	78.5	117.7#
43	134.6	189.5	284.3#
56	57.4	43.2	64.8

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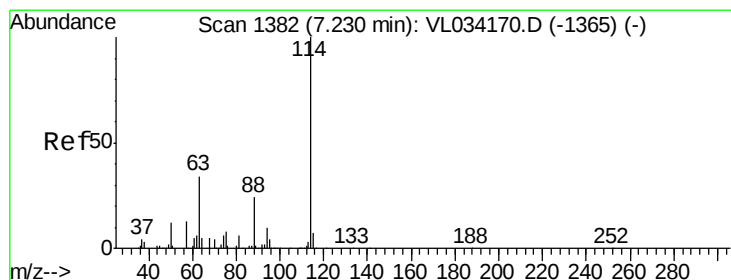
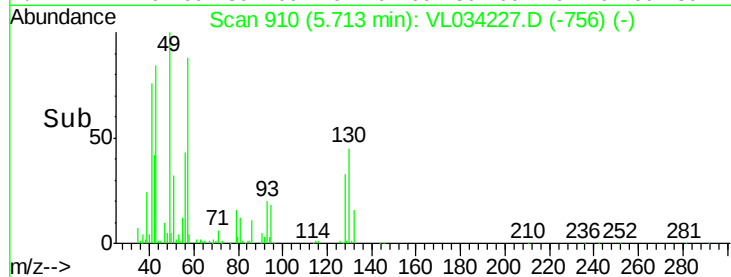
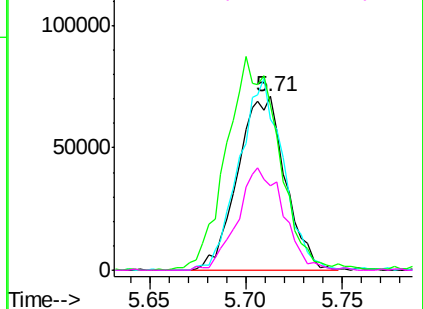


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.02 min

Lab File: VL034227.D

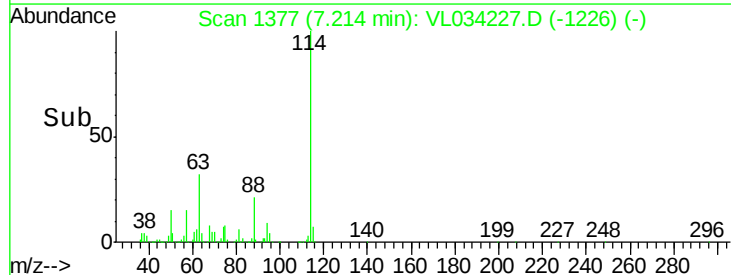
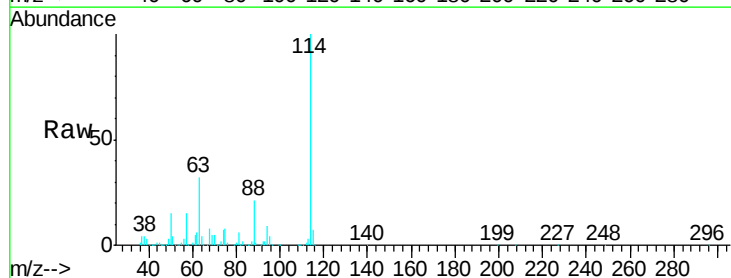
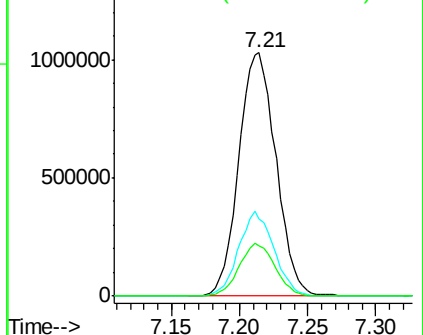
Acq: 7 Oct 2019 18:18

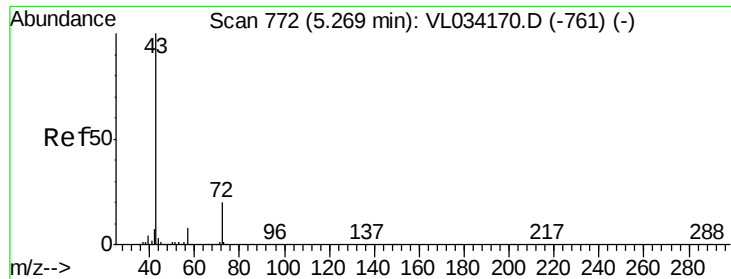
Tgt Ion	Ratio	Lower	Upper
114	100		
63	33.1	27.8	41.6
88	20.9	17.1	25.7

Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.430 ppbv

RT: 5.26 min Scan# 770

Delta R.T. -0.01 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion: 43 Resp: 85566

Ion Ratio Lower Upper

43 100

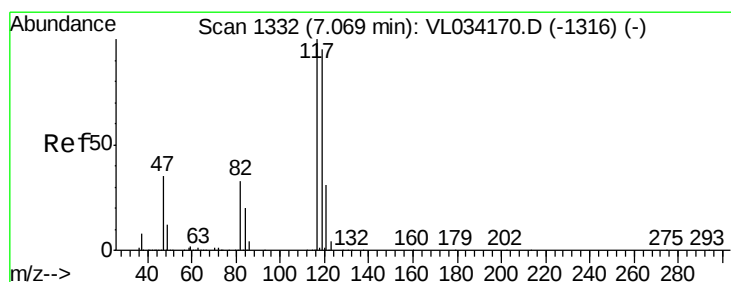
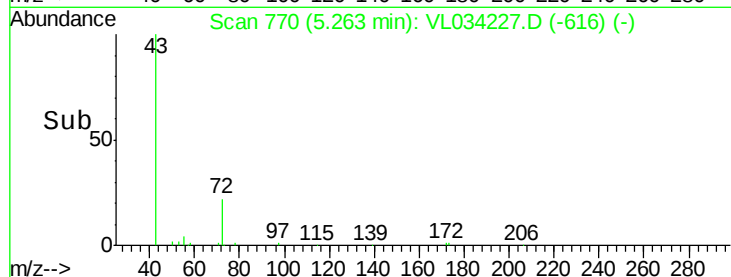
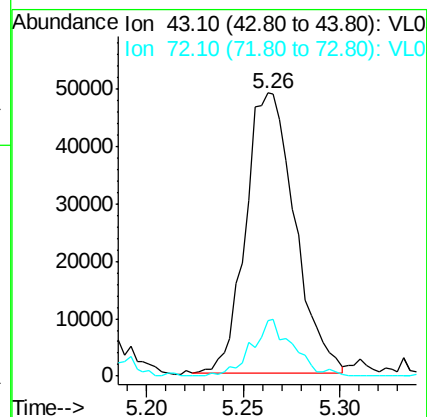
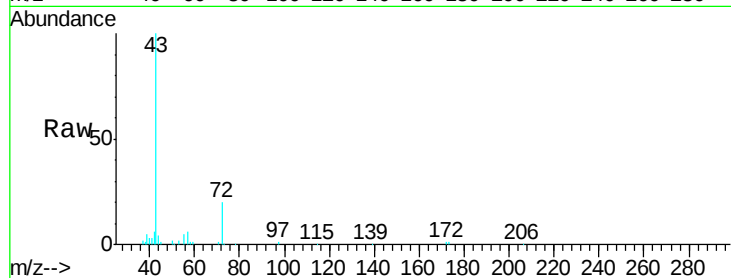
72 17.3 15.0 22.6

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 7.05 min Scan# 1326

Delta R.T. -0.02 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

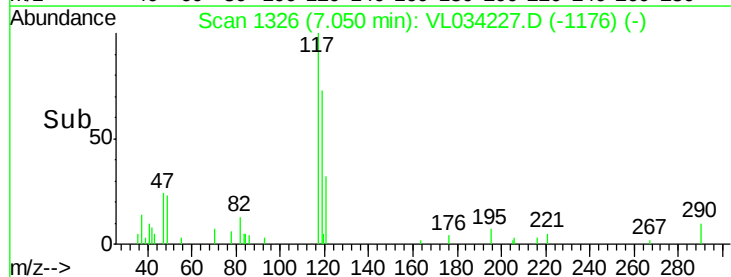
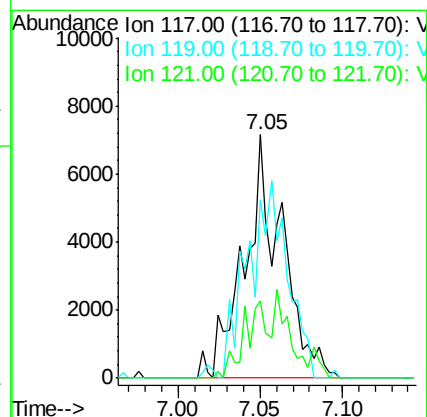
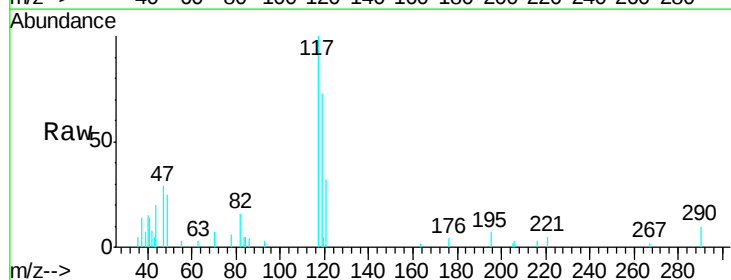
Tgt Ion: 117 Resp: 11530

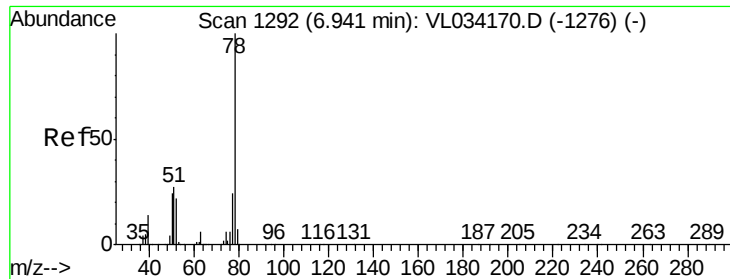
Ion Ratio Lower Upper

117 100

119 73.2 75.8 113.6#

121 31.9 25.0 37.6





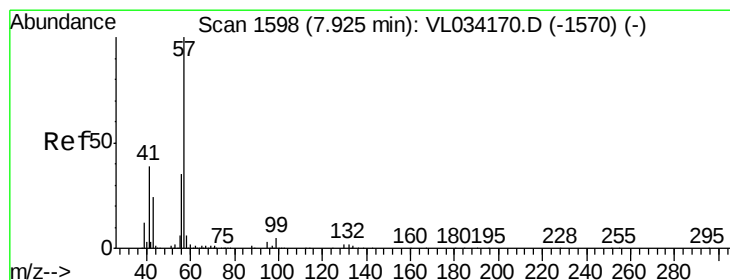
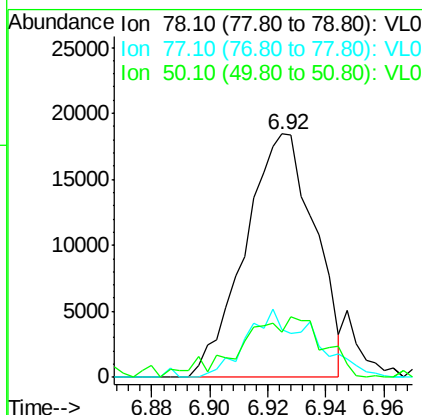
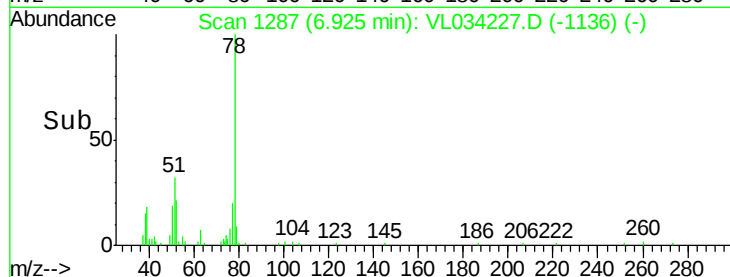
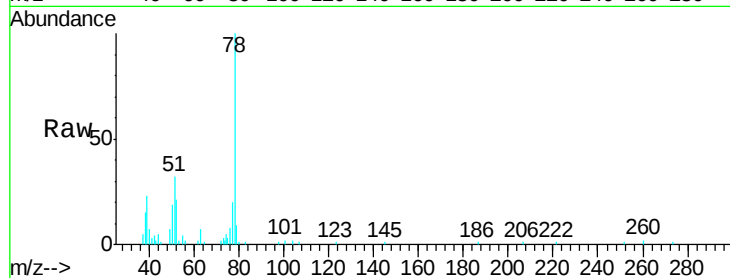
#36
Benzene
Concen: 0.143 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VL034227.D
Acq: 7 Oct 2019 18:18

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.7	19.0	28.4
50	15.9	18.9	28.3#

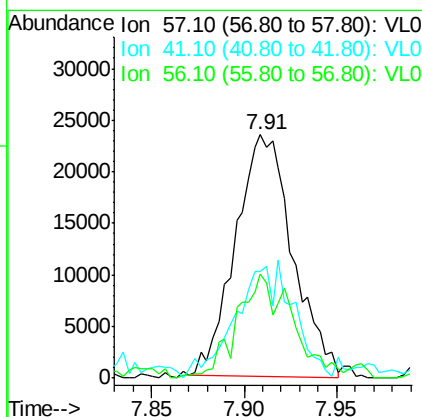
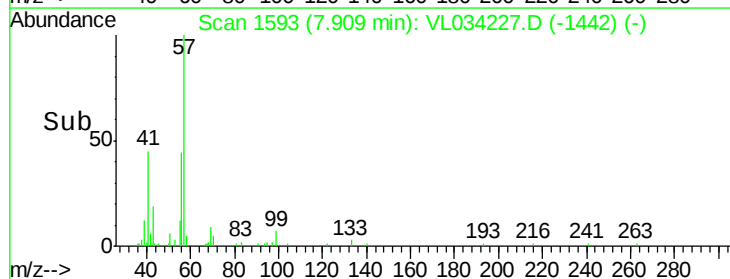
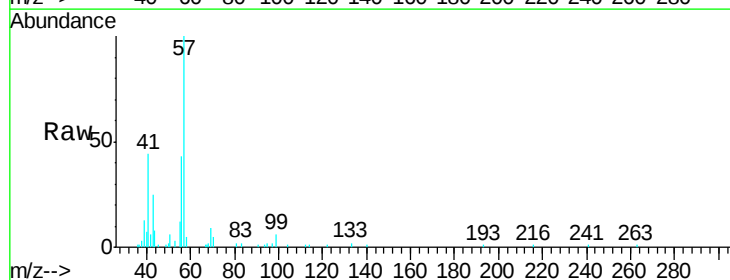
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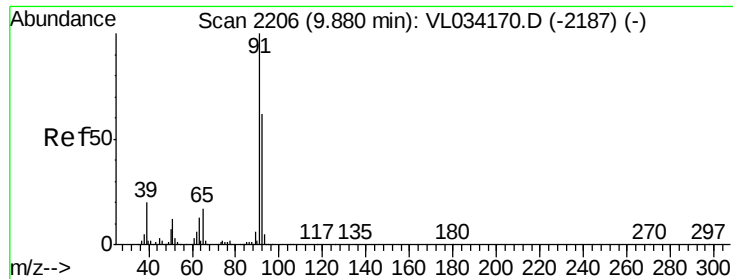
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.122 ppbv
RT: 7.91 min Scan# 1593
Delta R.T. -0.02 min
Lab File: VL034227.D
Acq: 7 Oct 2019 18:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	47.2	29.8	44.6#
56	43.8	25.9	38.9#





#53

Toluene

Concen: 0.505 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion: 91 Resp: 118723

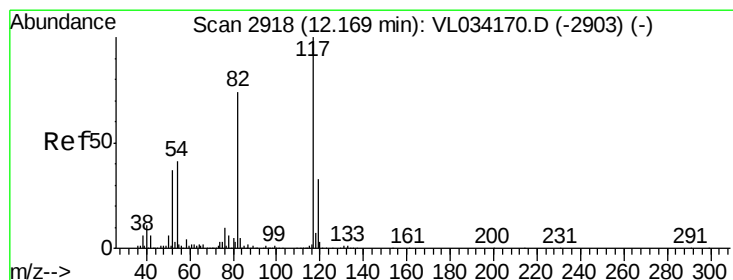
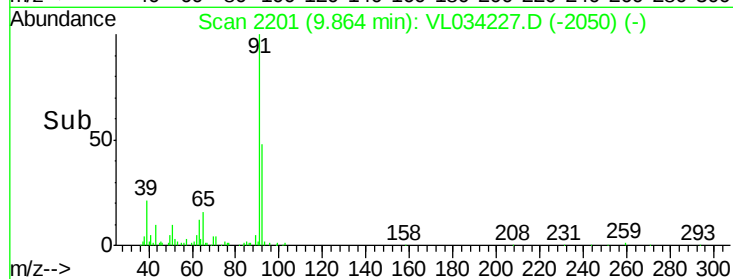
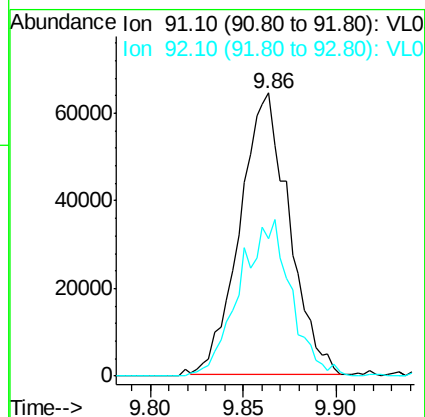
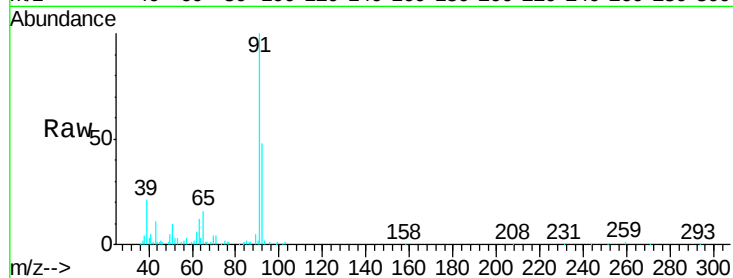
Ion Ratio Lower Upper

91 100

92 57.8 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: VL034227.D

Acq: 7 Oct 2019 18:18

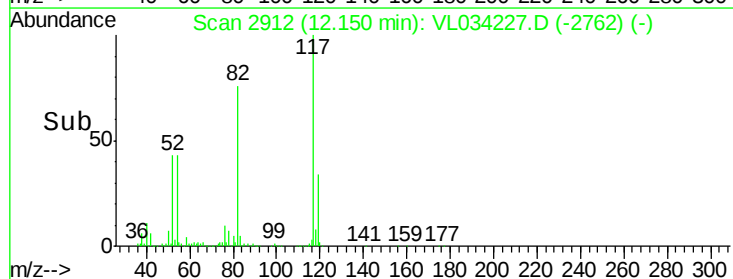
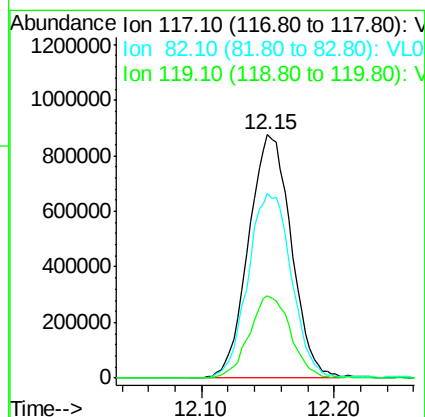
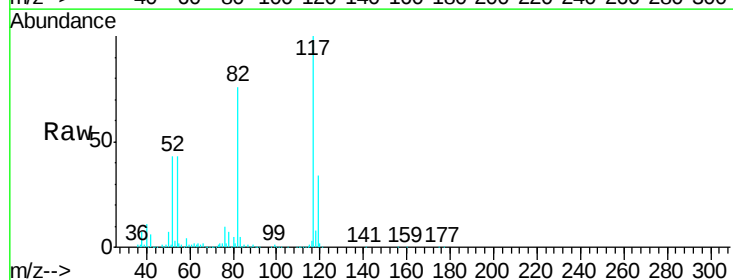
Tgt Ion: 117 Resp: 1959737

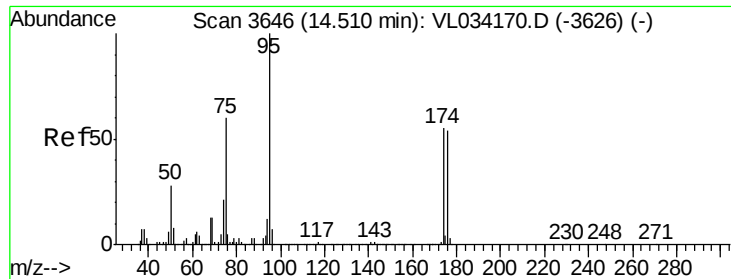
Ion Ratio Lower Upper

117 100

82 77.2 58.2 87.4

119 32.9 23.7 35.5





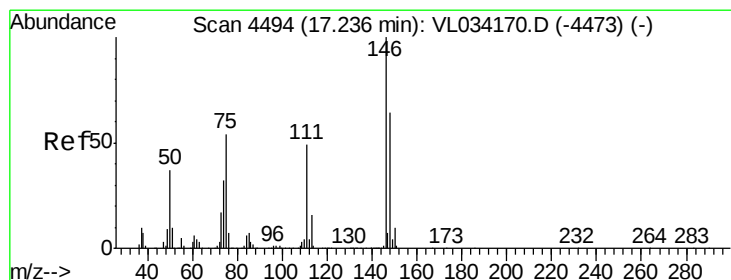
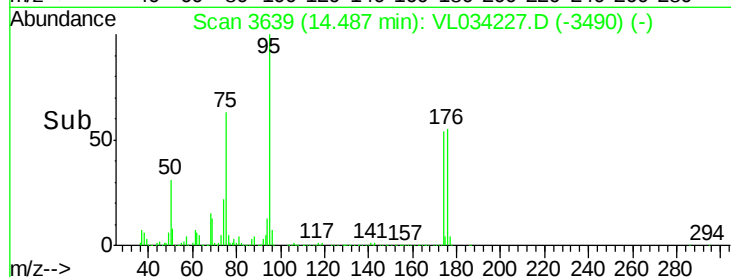
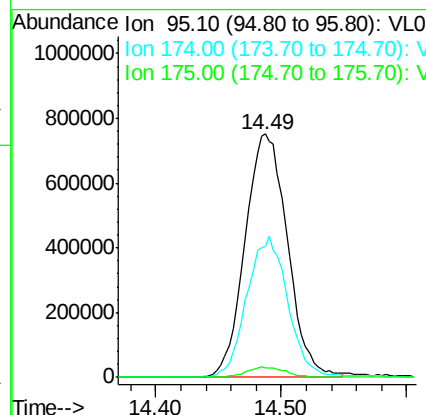
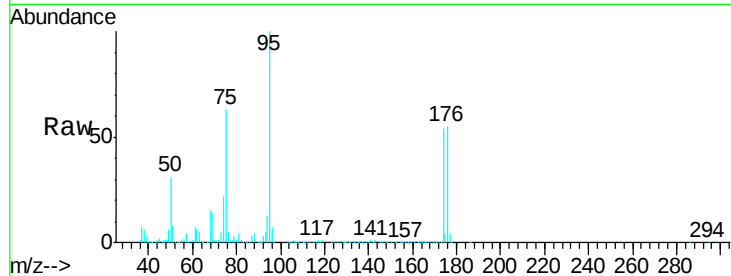
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.343 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. -0.02 min
 Lab File: VL034227.D
 Acq: 7 Oct 2019 18:18

Instrument :
 MSVOA_L
 ClientSampled :
 IA4DUP

Tgt Ion: 95 Resp: 1761321
 Ion Ratio Lower Upper
 95 100
 174 56.4 45.1 67.7
 175 3.9 3.3 4.9

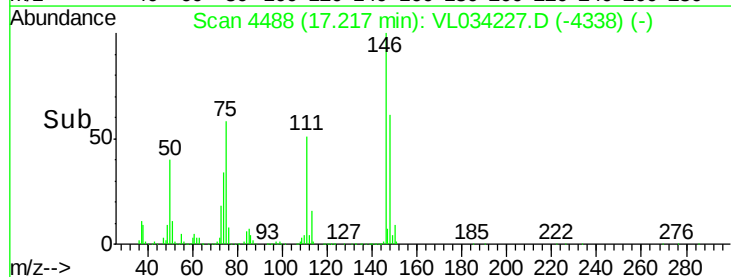
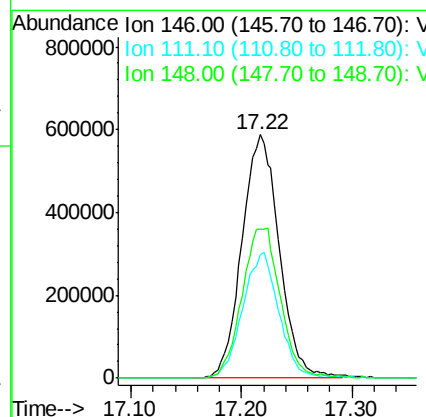
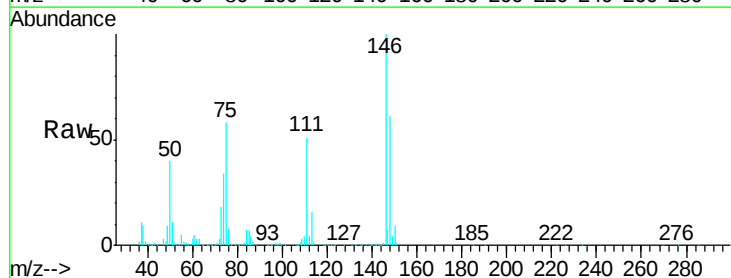
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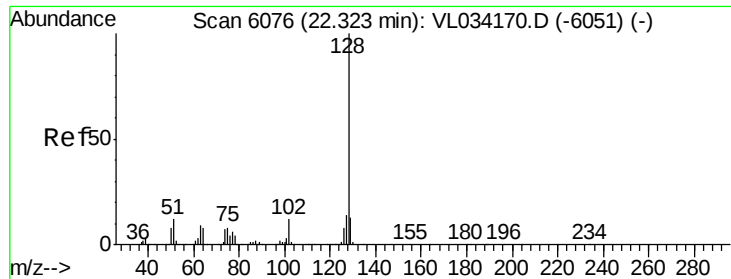
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#76
 1,4-Dichlorobenzene
 Concen: 8.253 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. -0.02 min
 Lab File: VL034227.D
 Acq: 7 Oct 2019 18:18

Tgt Ion: 146 Resp: 1376418
 Ion Ratio Lower Upper
 146 100
 111 50.5 24.6 74.0
 148 63.8 32.4 97.0





#79

Naphthalene

Concen: 0.191 ppbv m

RT: 22.31 min Scan# 6071

Delta R.T. -0.02 min

Lab File: VL034227.D

Acq: 7 Oct 2019 18:18

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion:	128	Resp:	50924
Ion Ratio	Lower	Upper	
128	100		
127	9.6	11.1	16.7#
129	9.9	10.2	15.4#

Manual Integrations
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