

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032525.D
 Acq On : 25 Sep 2018 1:39
 Operator : SY/AP
 Sample : J5039-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIR

Manual Integrations
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Quant Time: Sep 25 06:18:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1422635	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3096536	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3125399	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2407692	10.22	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	39984	0.304	ppbv	89
3) Chlorodifluoromethane	3.03	51	43890m	0.371	ppbv	
4) Chloromethane	3.19	50	42896	0.622	ppbv	97
9) Propene	3.07	41	67404	1.313	ppbv #	71
11) Trichlorofluoromethane	4.03	101	41268	0.264	ppbv	97
13) Ethanol	3.68	45	590700	38.285	ppbv	96
15) Acetone	3.92	43	3577594	28.649	ppbv	99
19) Isopropyl Alcohol	4.06	45	393839	4.528	ppbv #	1
20) Methylene Chloride	4.43	84	443764	7.338	ppbv	94
26) Hexane	5.80	57	606132	4.429	ppbv #	49
29) Chloroform	5.88	83	62607	0.298	ppbv	98
34) 2-Butanone	5.36	43	128934	0.699	ppbv	97
35) Carbon Tetrachloride	7.16	117	17360m	0.081	ppbv	
36) Benzene	7.03	78	65374	0.261	ppbv	95
53) Toluene	9.98	91	737064	2.417	ppbv	100
74) 1,2,4-Trimethylbenzene	16.96	105	122624	0.329	ppbv #	72
79) Naphthalene	22.45	128	66513m	0.247	ppbv	

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

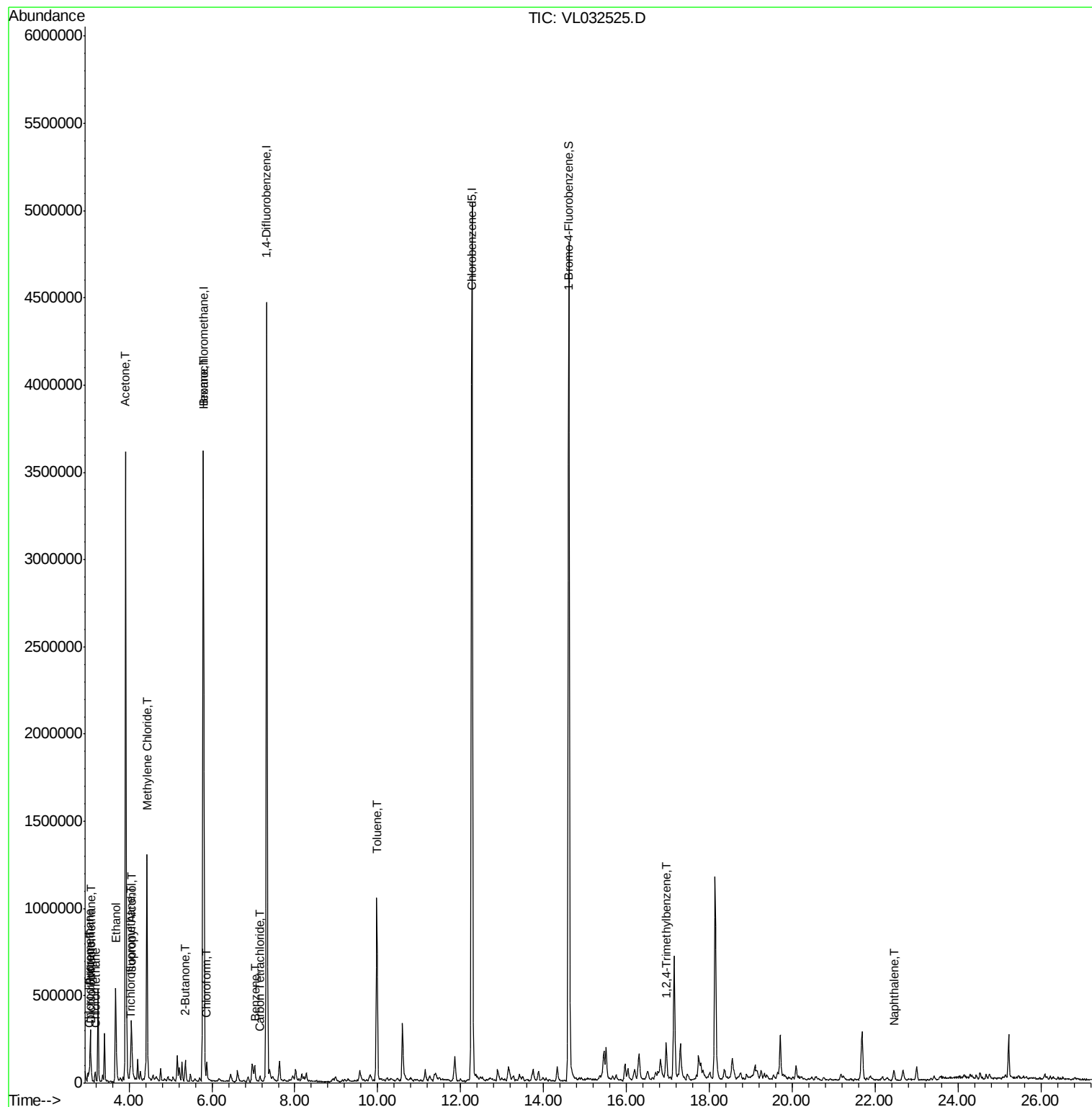
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\
Data File : VL032525.D
Acq On : 25 Sep 2018 1:39
Operator : SY/AP
Sample : J5039-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

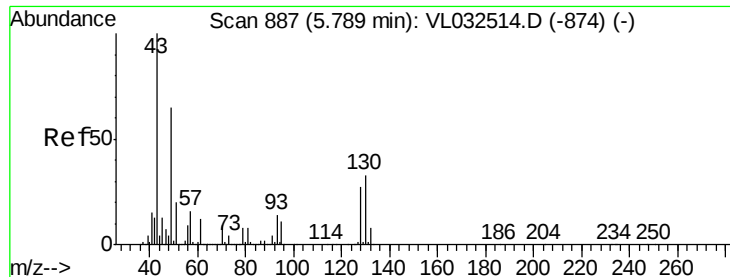
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIR

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Quant Time: Sep 25 06:18:46 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIR

Tot Ion: 49 Resp: 1422635

Ion Ratio Lower Upper

49 100

128 43.3 20.7 62.1

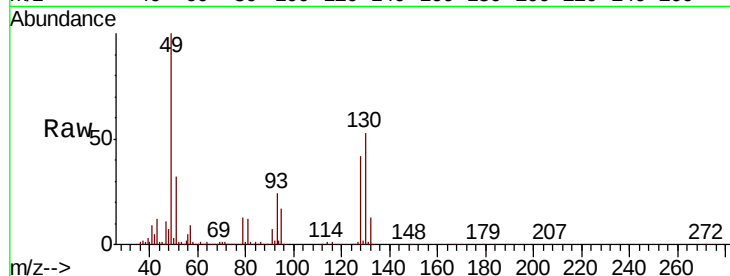
130 56.3 26.6 79.7

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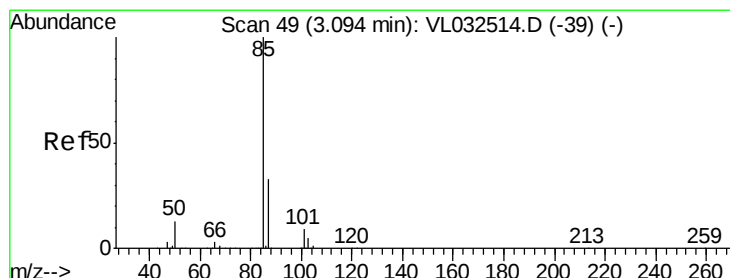
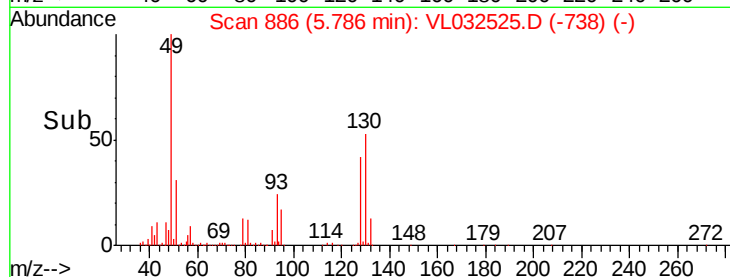
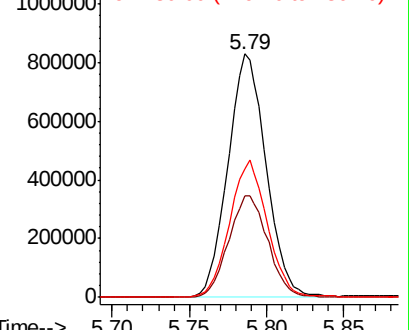
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.304 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032525.D

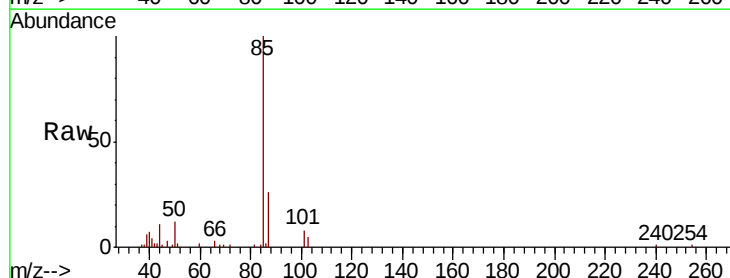
Acq: 25 Sep 2018 1:39

Tgt Ion: 85 Resp: 39984

Ion Ratio Lower Upper

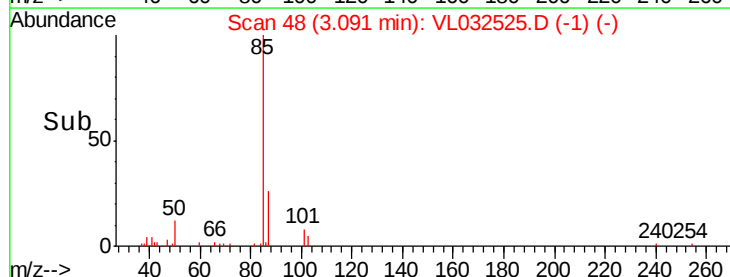
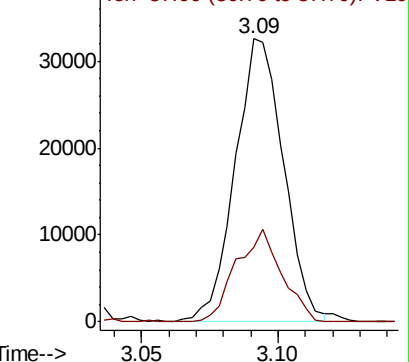
85 100

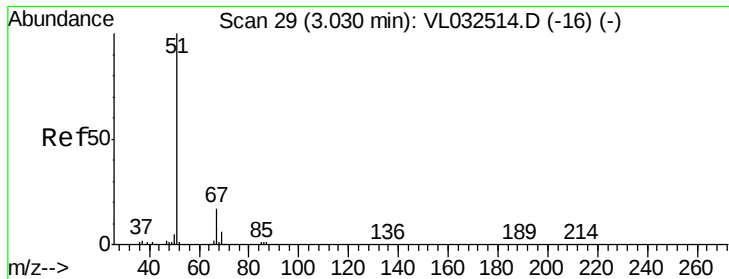
87 26.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.371 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Tot Ion: 51 Resp: 43890

Ion Ratio Lower Upper

51 100

67 18.4 13.8 20.8

Instrument :

MSVOA_L

ClientSampleId :

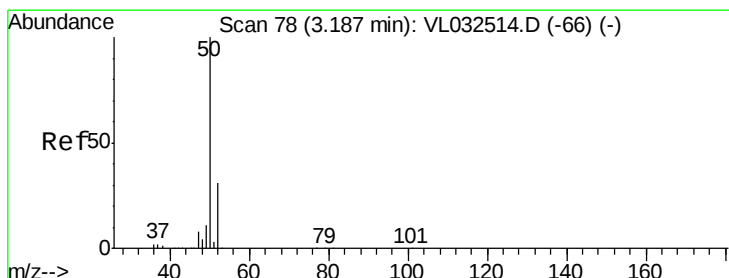
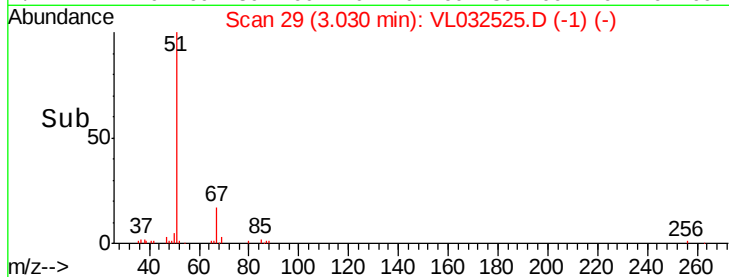
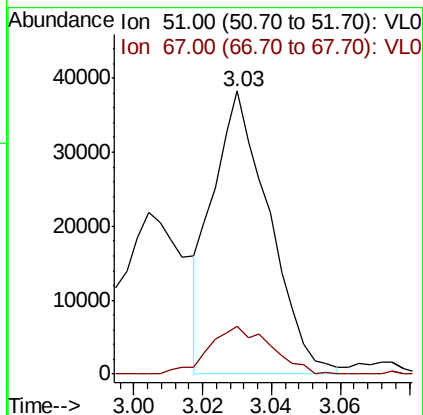
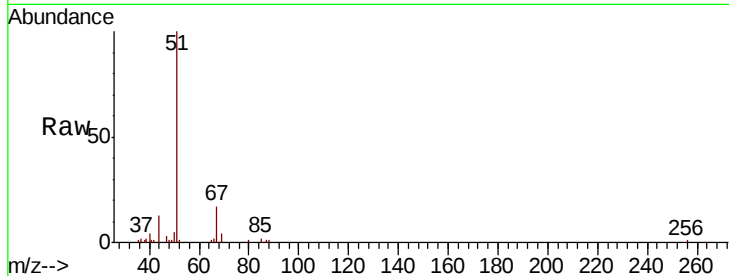
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#4

Chloromethane

Concen: 0.622 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032525.D

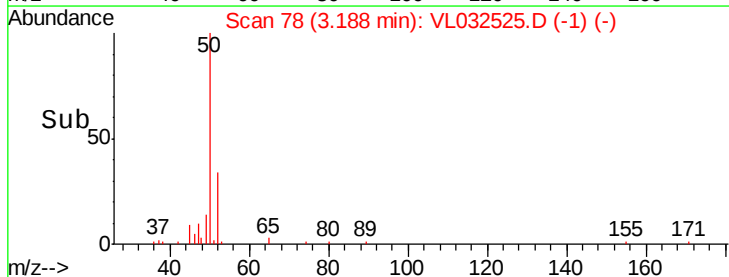
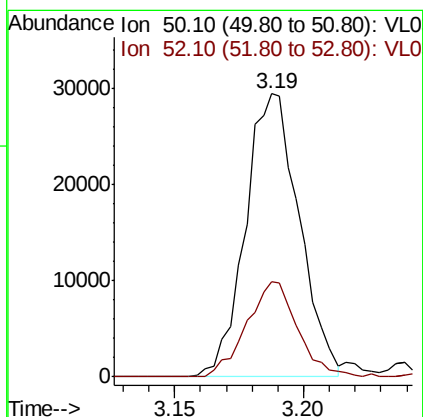
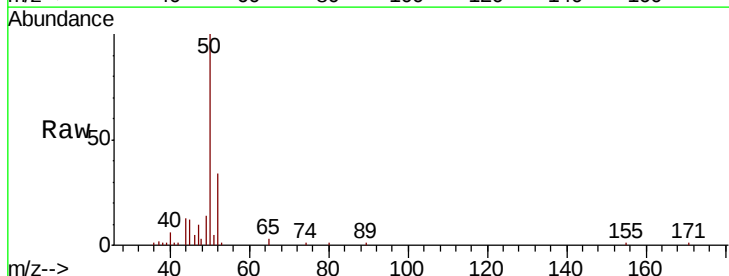
Acq: 25 Sep 2018 1:39

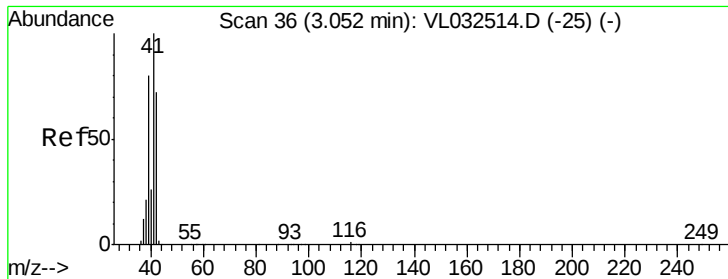
Tgt Ion: 50 Resp: 42896

Ion Ratio Lower Upper

50 100

52 33.7 25.6 38.4





#9

Propene

Concen: 1.313 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIR

Tot Ion: 41 Resp: 67404

Ion Ratio Lower Upper

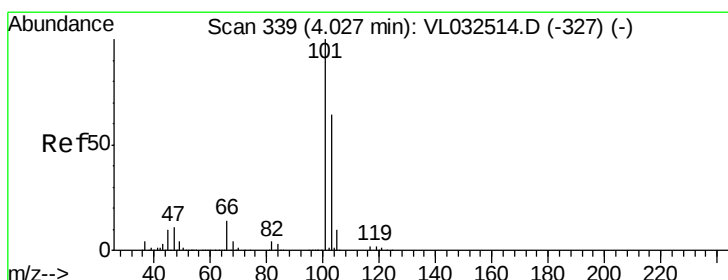
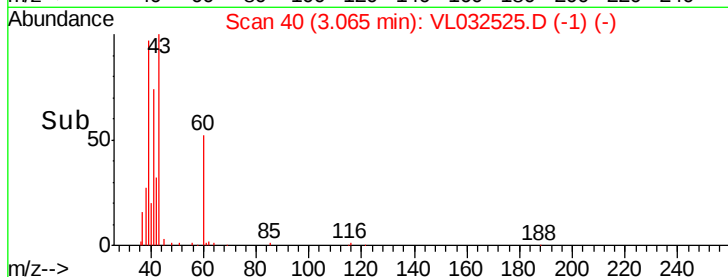
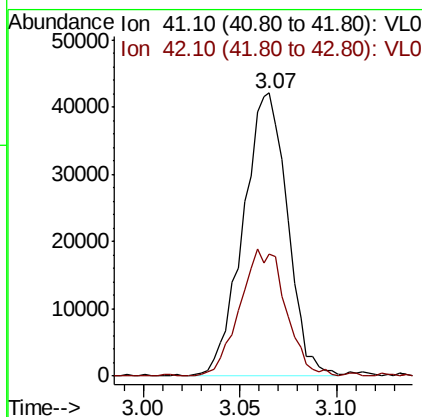
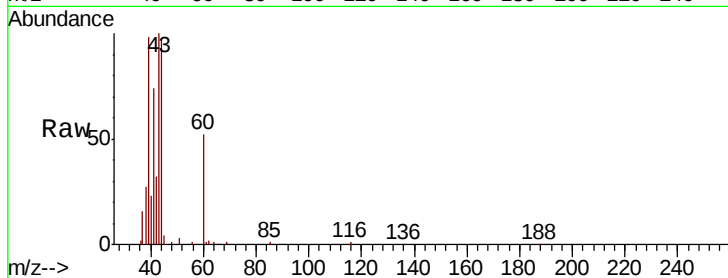
41 100

42 46.6 56.6 84.8#

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#11

Trichlorofluoromethane

Concen: 0.264 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032525.D

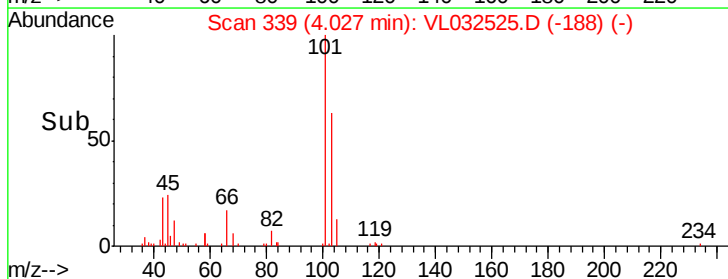
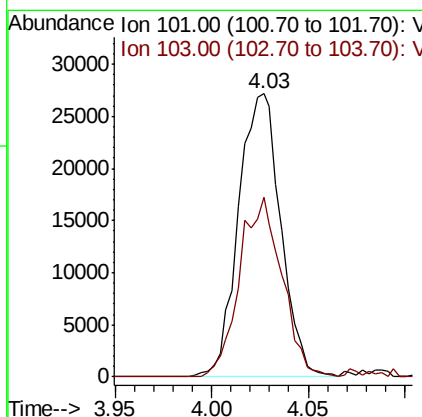
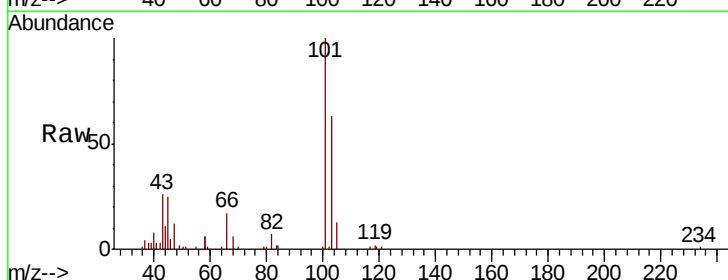
Acq: 25 Sep 2018 1:39

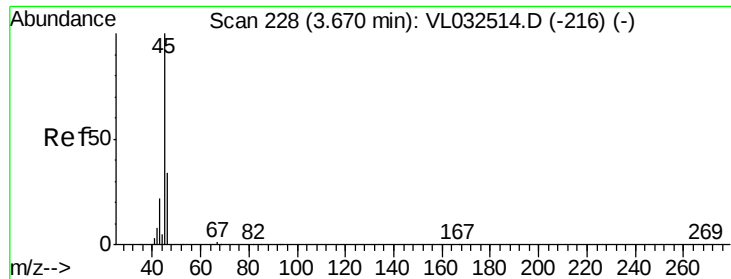
Tgt Ion: 101 Resp: 41268

Ion Ratio Lower Upper

101 100

103 63.4 52.8 79.2





#13

Ethanol

Concen: 38.285 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Tot Ion: 45 Resp: 590700

Ion Ratio Lower Upper

45 100

46 38.1 14.2 56.8

Instrument :

MSVOA_L

ClientSampleId :

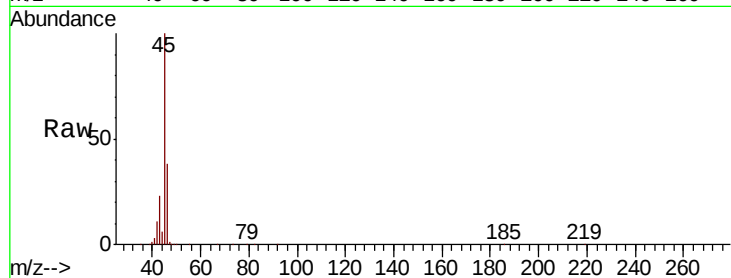
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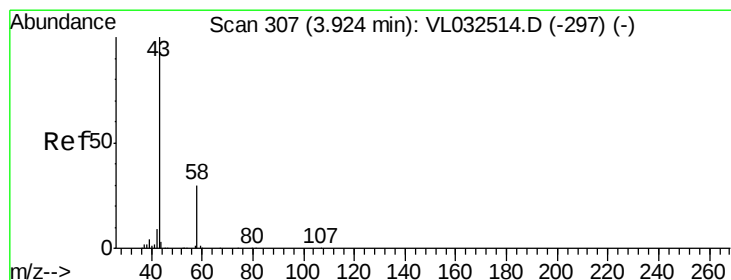
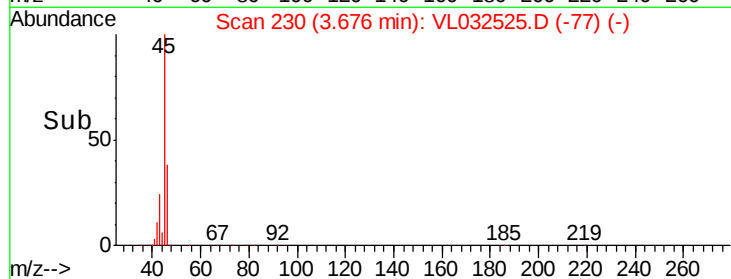
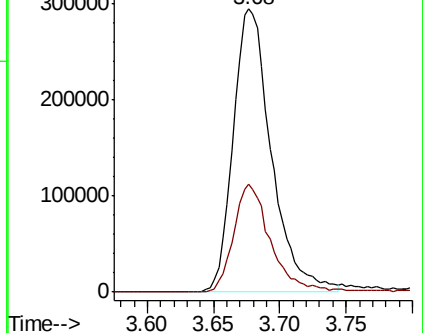
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 28.649 ppbv

RT: 3.92 min Scan# 305

Delta R.T. -0.02 min

Lab File: VL032525.D

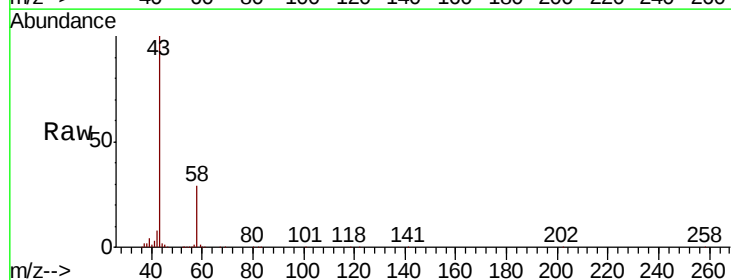
Acq: 25 Sep 2018 1:39

Tgt Ion: 43 Resp: 3577594

Ion Ratio Lower Upper

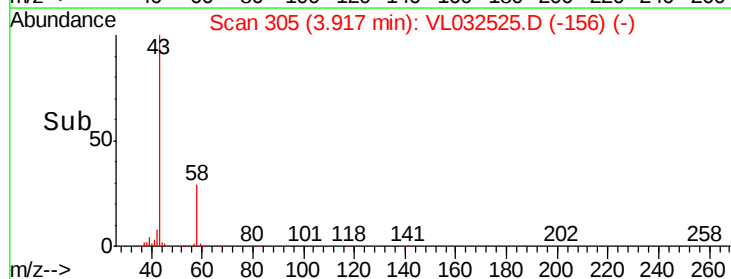
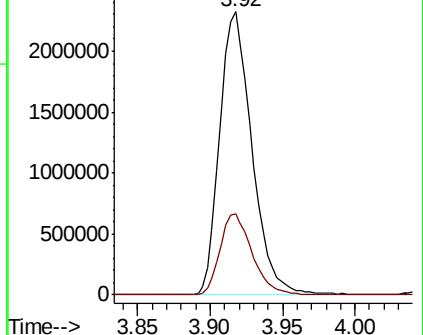
43 100

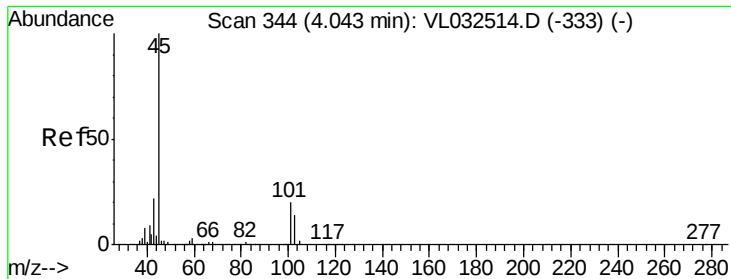
58 28.7 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 4.528 ppbv

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIR

Tot Ion: 45 Resp: 393839

Ion Ratio Lower Upper

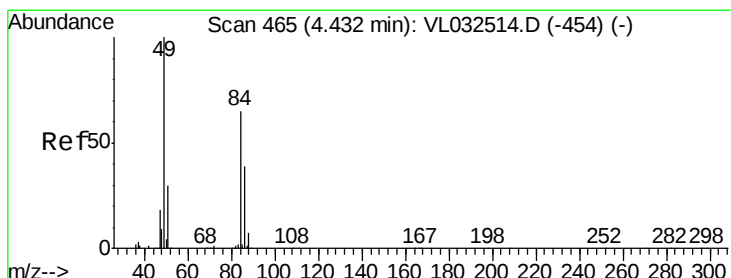
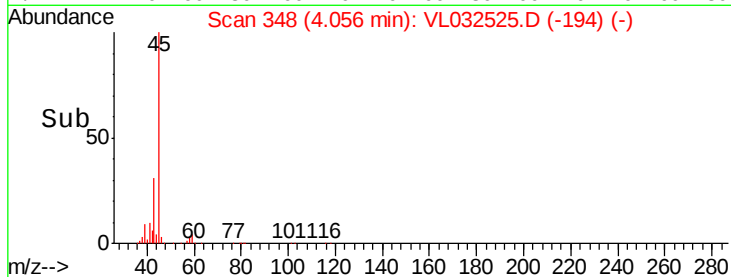
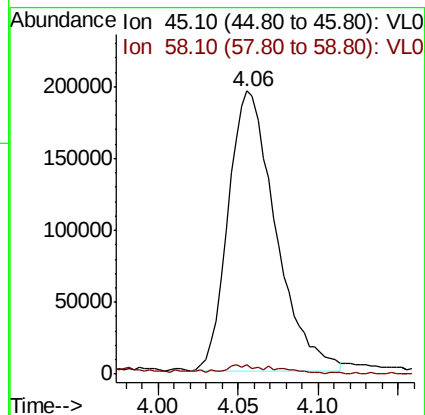
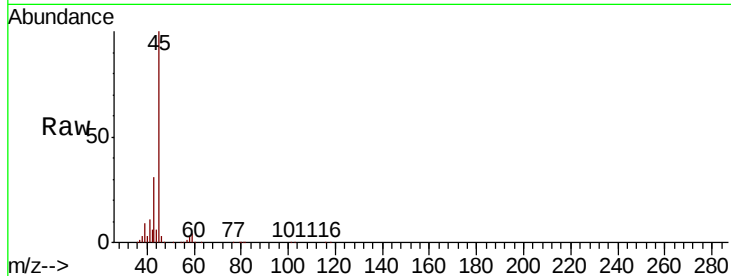
45 100

58 260.6 2.0 3.0#

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#20

Methylene Chloride

Concen: 7.338 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Tgt Ion: 84 Resp: 443764

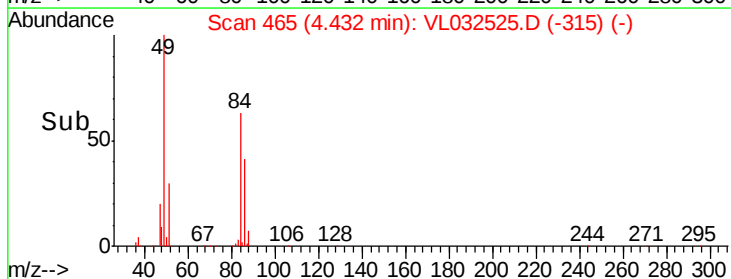
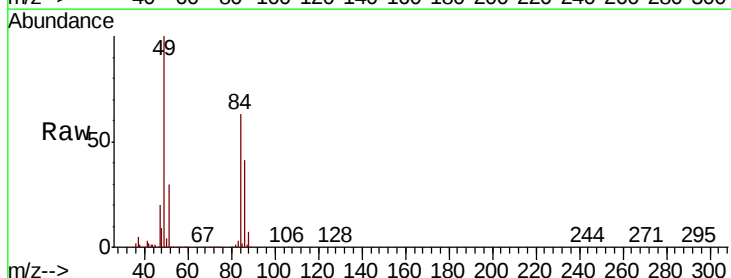
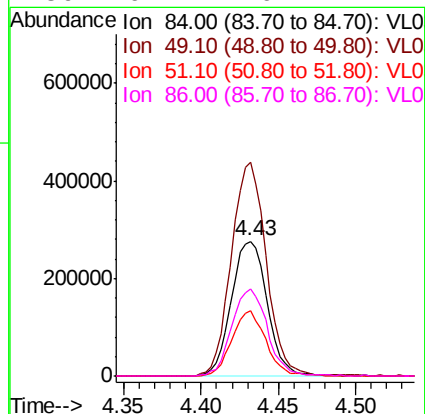
Ion Ratio Lower Upper

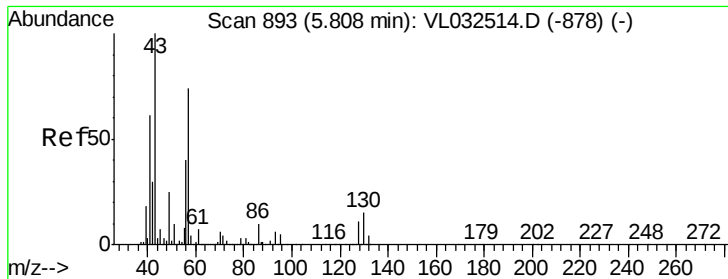
84 100

49 158.0 119.1 178.7

51 47.9 35.2 52.8

86 64.2 49.4 74.2





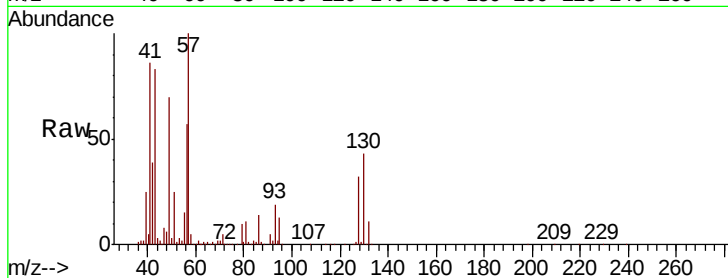
#26
Hexane
Concen: 4.429 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032525.D
Acq: 25 Sep 2018 1:39

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIR

Tot Ion	Ratio	Lower	Upper
57	100		
41	89.1	69.0	103.4
43	87.2	172.1	258.1#
56	56.2	42.2	63.2

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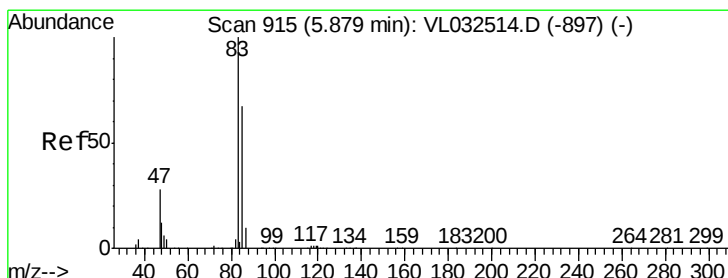
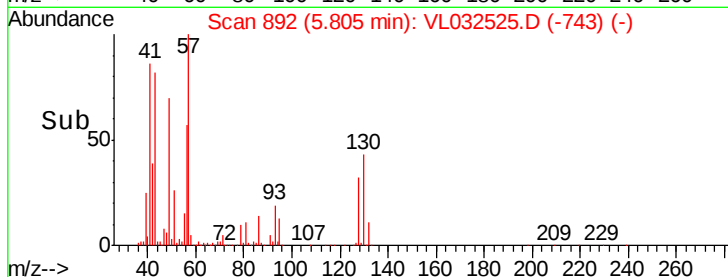
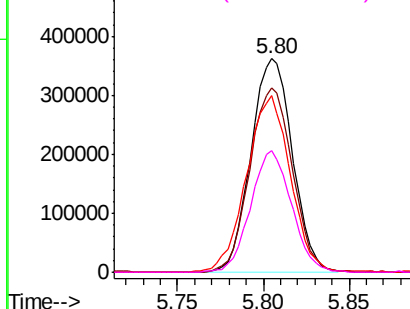
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

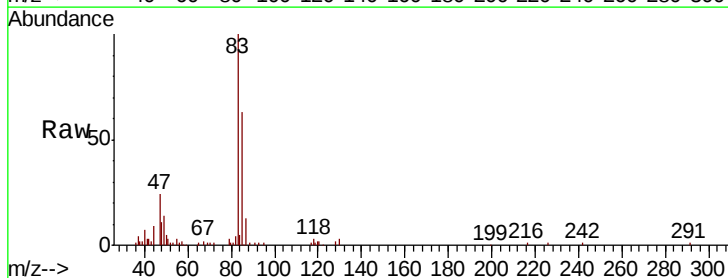
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.298 ppbv
RT: 5.88 min Scan# 914
Delta R.T. -0.02 min
Lab File: VL032525.D
Acq: 25 Sep 2018 1:39

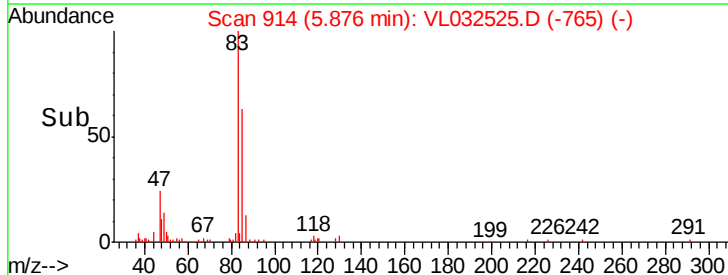
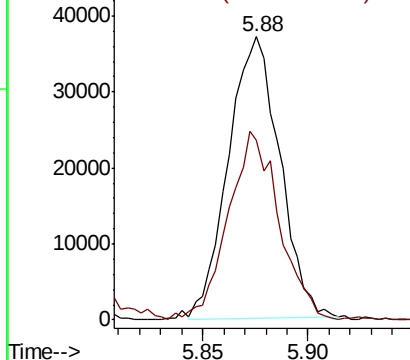
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.5	78.7

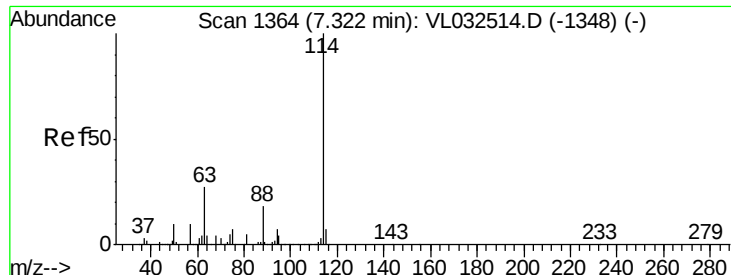


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





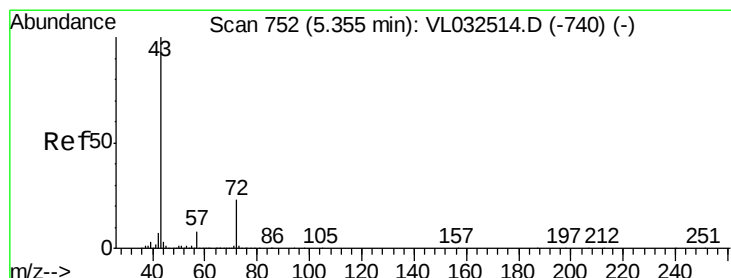
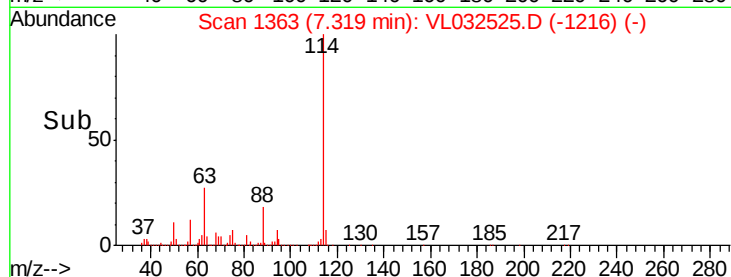
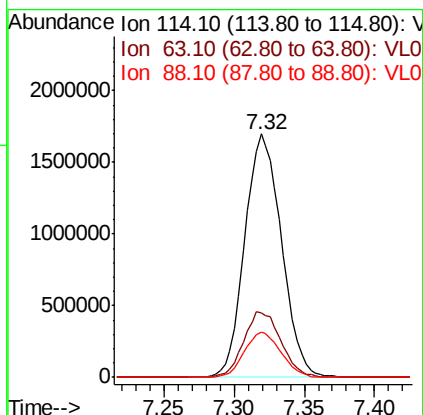
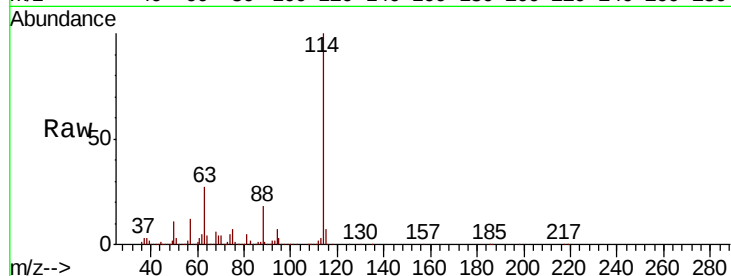
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032525.D
 Acq: 25 Sep 2018 1:39

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIR

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	18.6	15.0	22.4

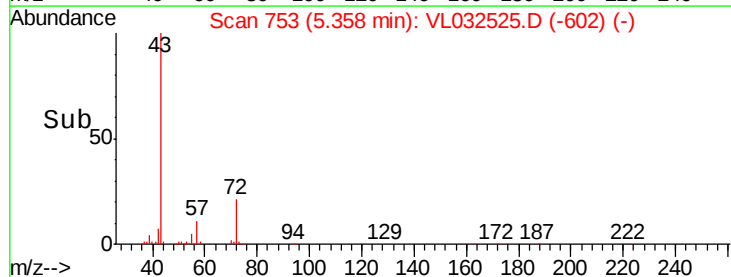
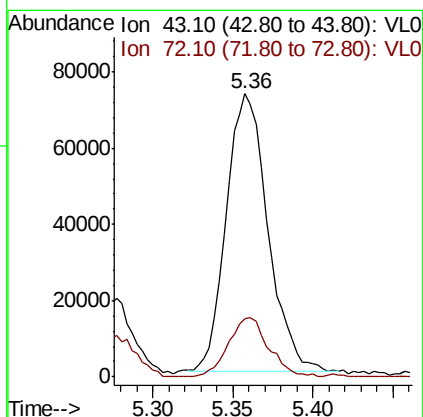
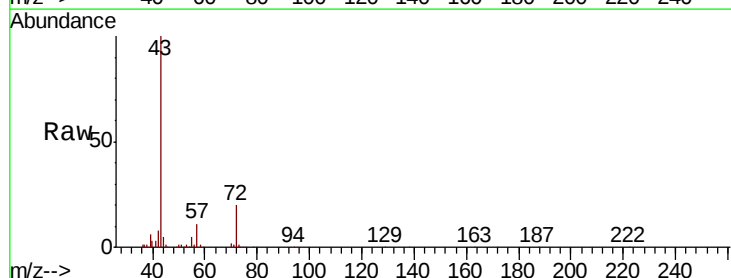
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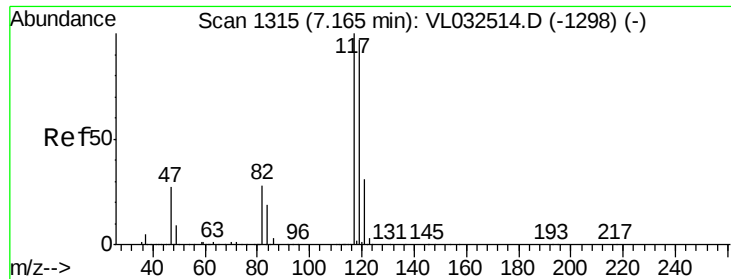
apatel
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#34
 2-Butanone
 Concen: 0.699 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032525.D
 Acq: 25 Sep 2018 1:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.8	26.6





#35

Carbon Tetrachloride

Concen: 0.081 ppbv m

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

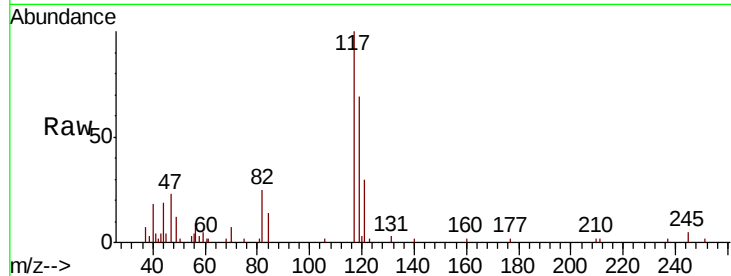
INDOOR-AIR

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		17360		
119	69.4	76.6	115.0#		
121	29.6	24.6	36.8		

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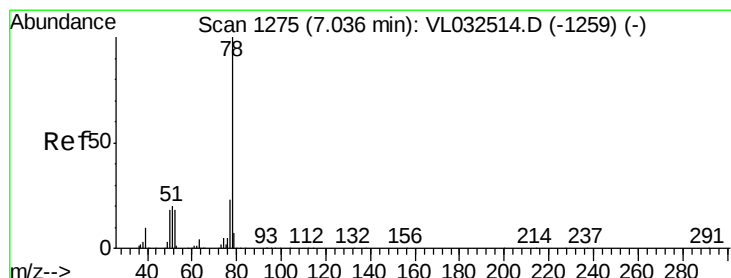
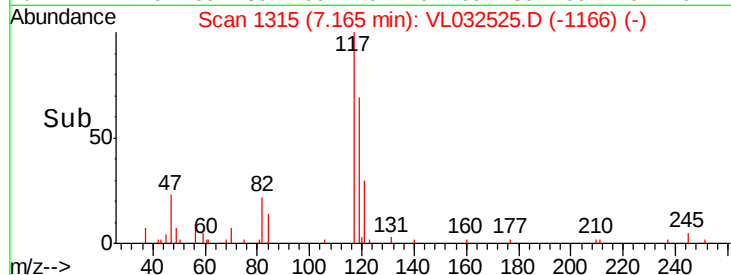
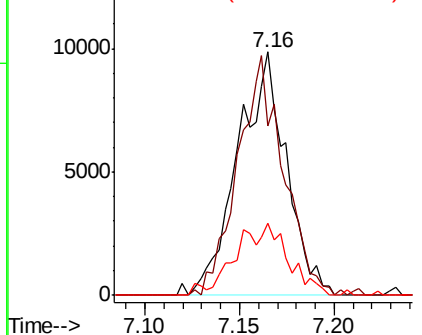
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.261 ppbv

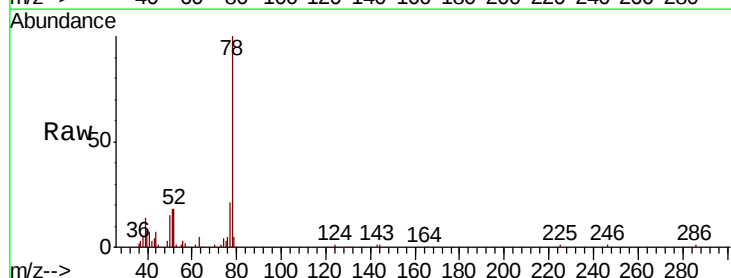
RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

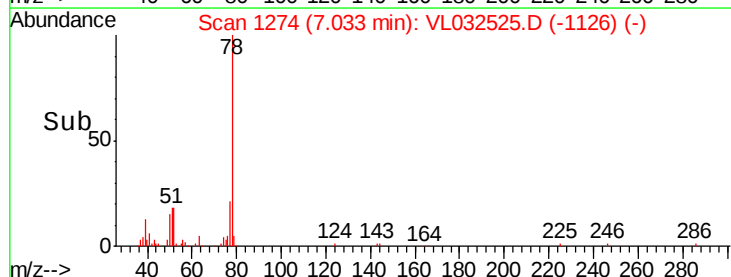
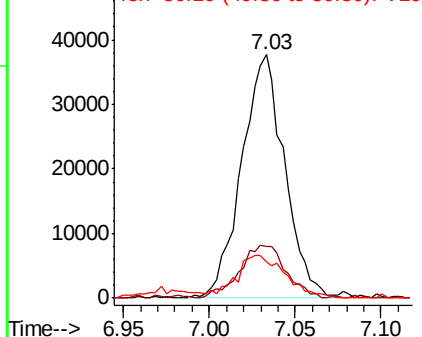
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		65374		
77	21.1	18.4	27.6		
50	15.2	14.4	21.6		

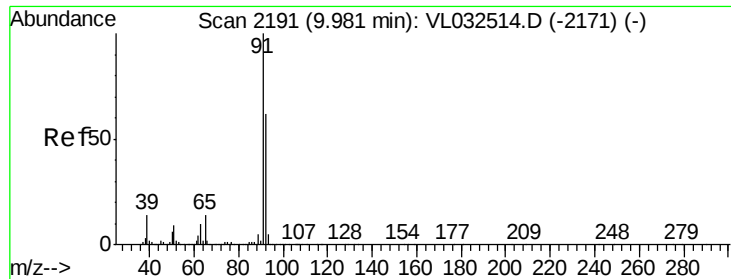


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 2.417 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIR

Tot Ion: 91 Resp: 737064

Ion Ratio Lower Upper

91 100

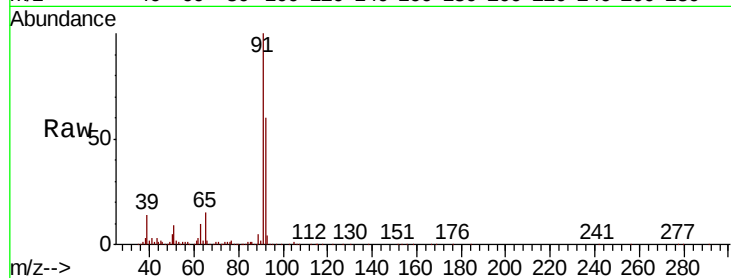
92 60.4 48.1 72.1

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

400000

300000

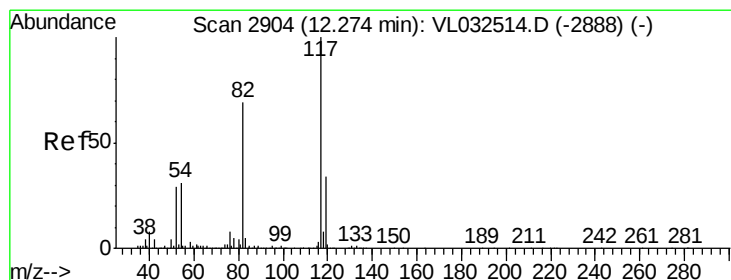
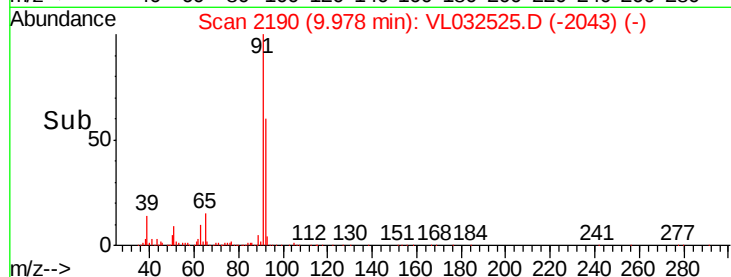
200000

100000

0

9.90 9.95 10.00 10.05

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032525.D

Acq: 25 Sep 2018 1:39

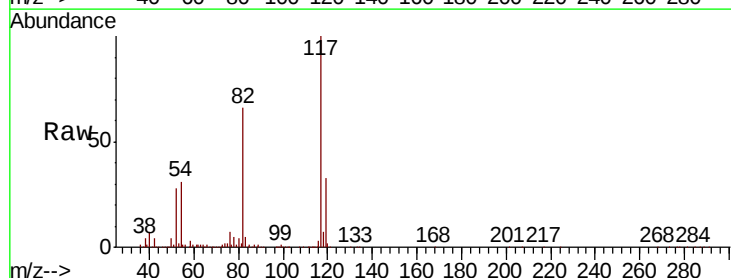
Tgt Ion: 117 Resp: 3125399

Ion Ratio Lower Upper

117 100

82 67.7 53.0 79.6

119 32.4 45.9 68.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

2000000

1500000

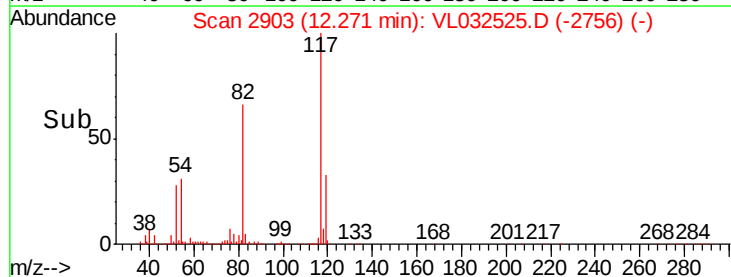
1000000

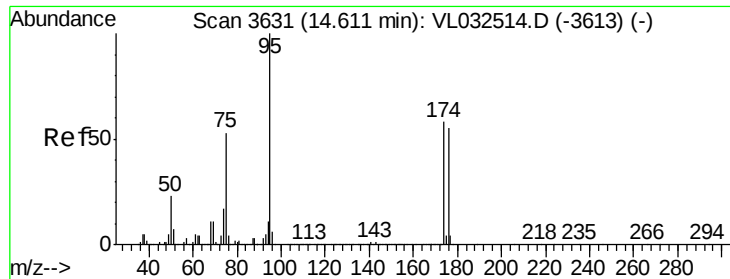
500000

0

12.20 12.30

Time-->





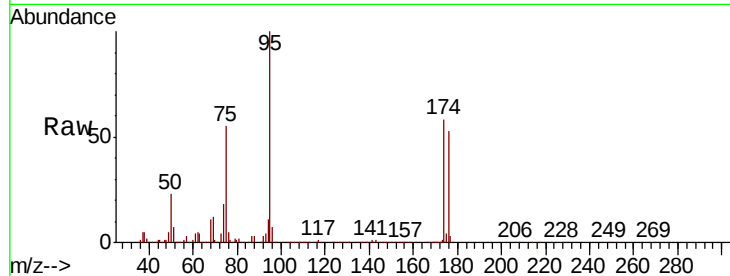
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.215 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032525.D
 Acq: 25 Sep 2018 1:39

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIR

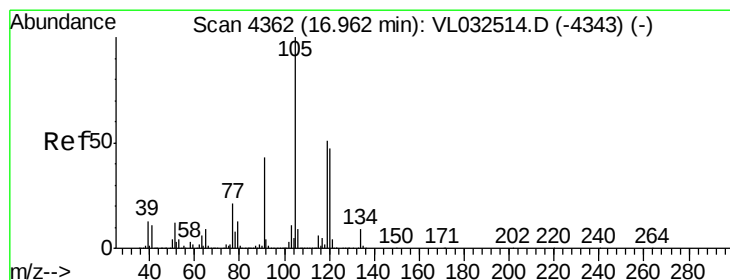
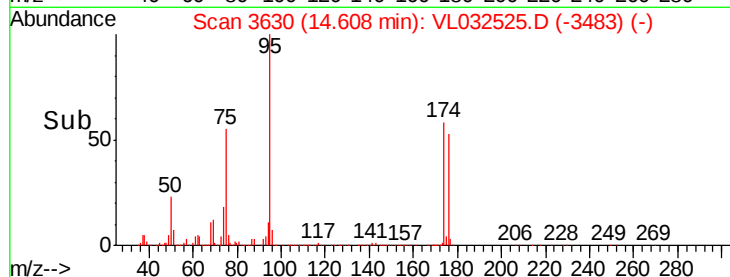
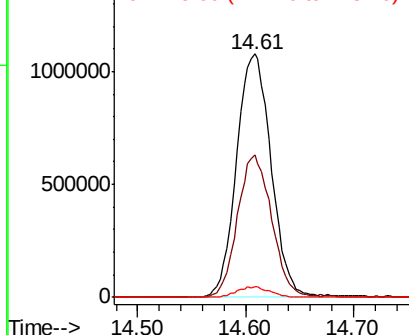
Tot Ion: 95 Resp: 2407692
 Ion Ratio Lower Upper
 95 100
 174 58.5 46.3 69.5
 175 4.1 3.4 5.0

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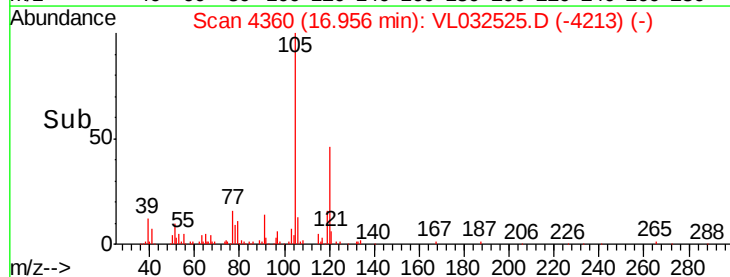
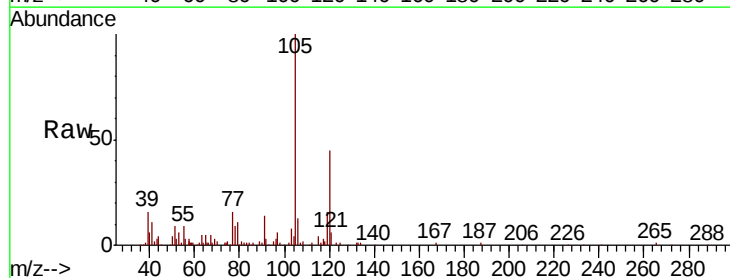
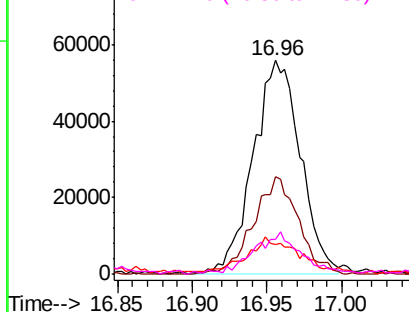
Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

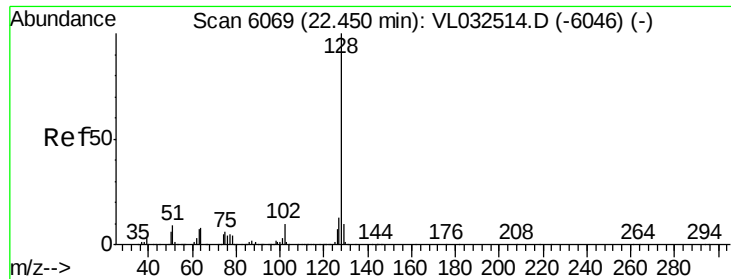


#74
 1,2,4-Trimethylbenzene
 Concen: 0.329 ppbv
 RT: 16.96 min Scan# 4360
 Delta R.T. -0.03 min
 Lab File: VL032525.D
 Acq: 25 Sep 2018 1:39

Tgt Ion: 105 Resp: 122624
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.8 56.8
 91 12.0 41.4 62.0#
 77 15.9 18.6 28.0#

Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.247 ppbv m

RT: 22.45 min Scan# 6068

Delta R.T. -0.03 min

Lab File: VL032525.D

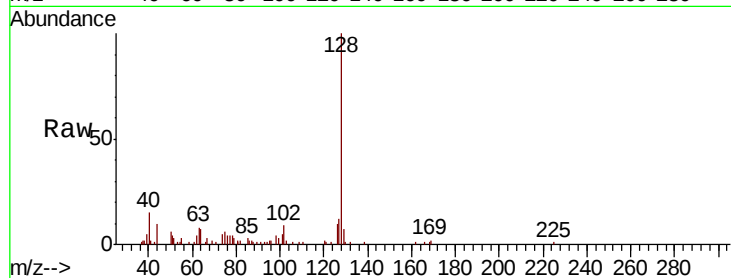
Acq: 25 Sep 2018 1:39

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIR



Tot Ion:	128	Resp:	66513
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.2	15.2
129	7.2	8.5	12.7#

Manual Integrations
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