

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032676.D
 Acq On : 19 Oct 2018 9:39
 Operator : SY/AP
 Sample : J5581-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4DL

Manual Integrations
 APPROVED

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 10/24/2018 12:06:18 PM

Quant Time: Oct 19 23:27:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1575366	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3672361	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3563798	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2644190	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	36743	0.298	ppbv	96
13) Ethanol	3.67	45	118223	8.158	ppbv	96
15) Acetone	3.93	43	127250	0.875	ppbv	96
19) Isopropyl Alcohol	4.06	45	84501	0.816	ppbv #	95
20) Methylene Chloride	4.43	84	23131	0.313	ppbv	90
26) Hexane	5.80	57	33998m	0.215	ppbv	
53) Toluene	9.96	91	66154	0.194	ppbv	97

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

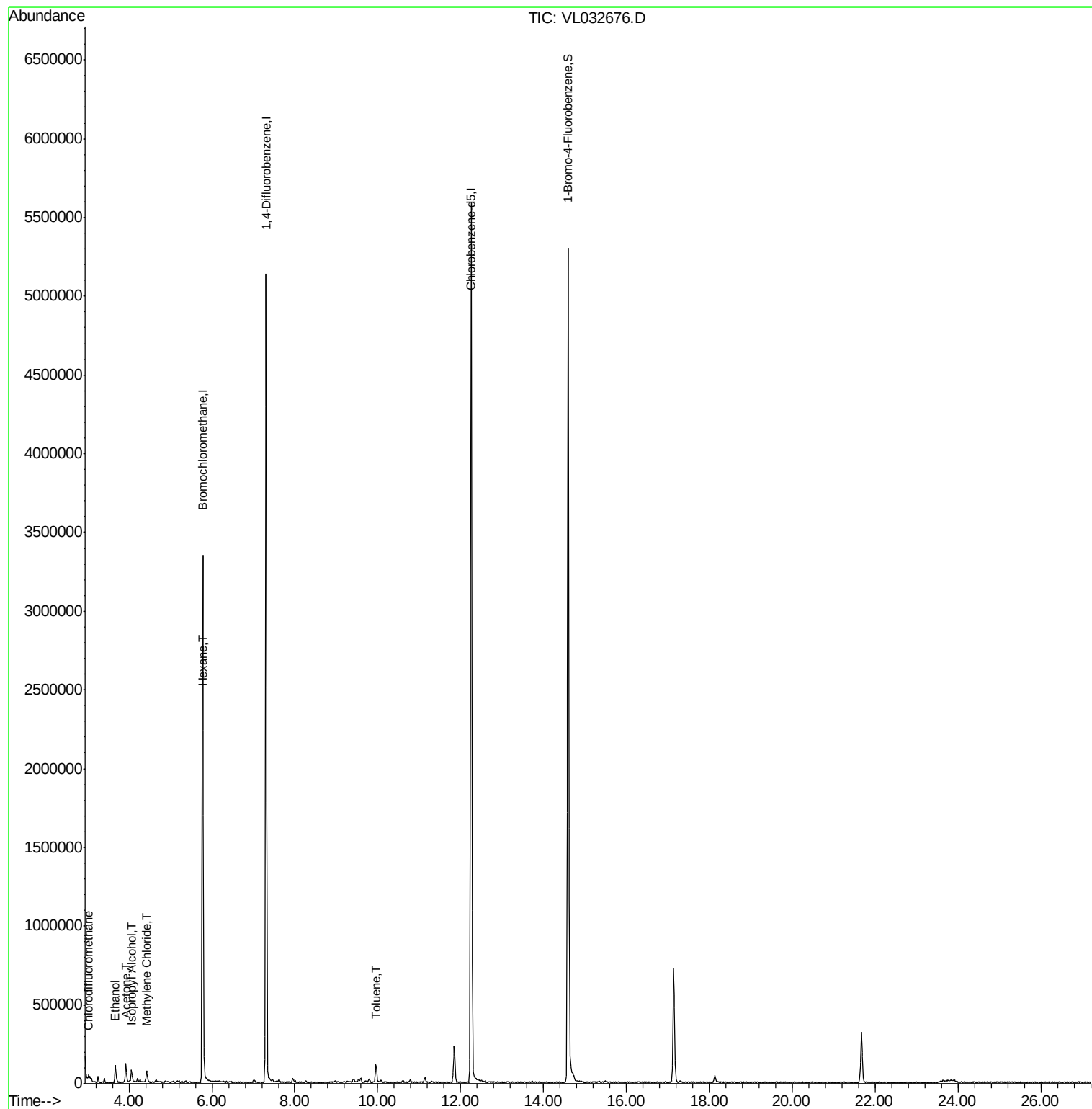
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032676.D
Acq On : 19 Oct 2018 9:39
Operator : SY/AP
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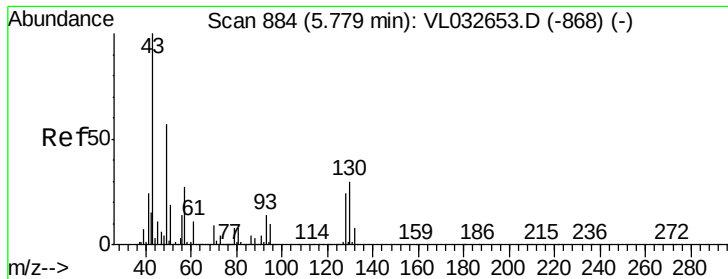
Instrument :
MSVOA_L
ClientSampleId :
A-4DL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032676.D

Acq: 19 Oct 2018 9:39

Instrument :

MSVOA_L

ClientSampled :

A-4DL

Tot Ion: 49 Resp: 1575366

Ion Ratio Lower Upper

49 100

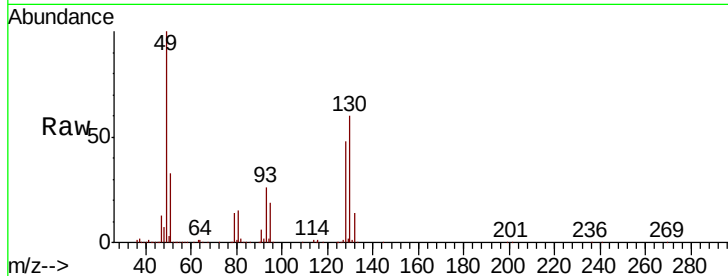
128 49.0 22.3 66.8

130 62.6 28.4 85.3

Manual Integrations
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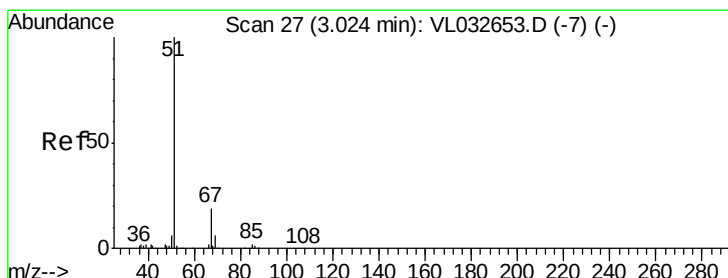
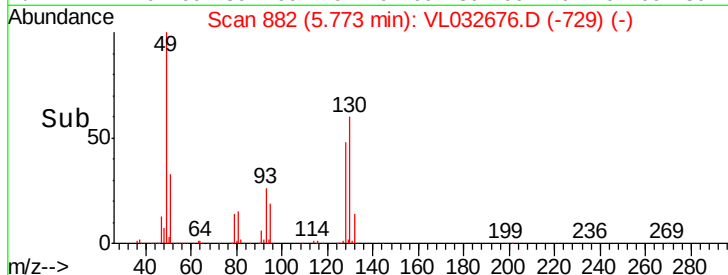
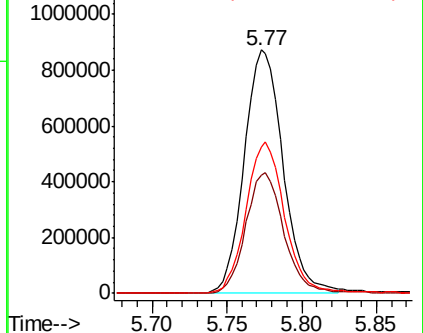
10/24/2018 12:06:18 PM



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



#3

Chlorodifluoromethane

Concen: 0.298 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032676.D

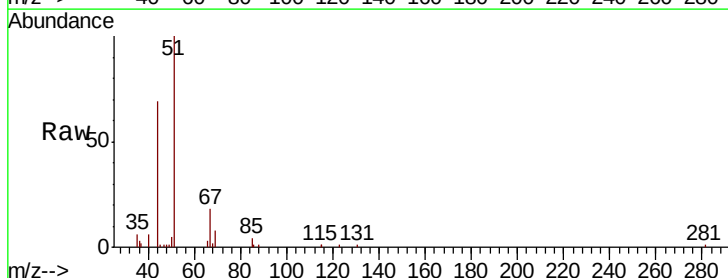
Acq: 19 Oct 2018 9:39

Tgt Ion: 51 Resp: 36743

Ion Ratio Lower Upper

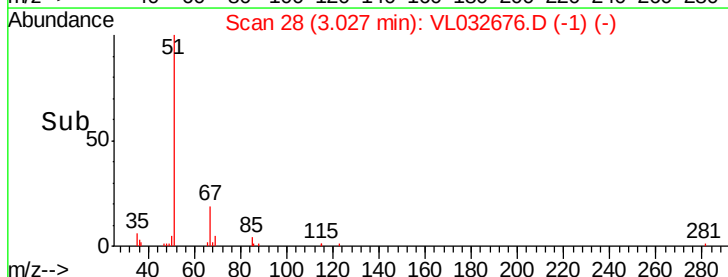
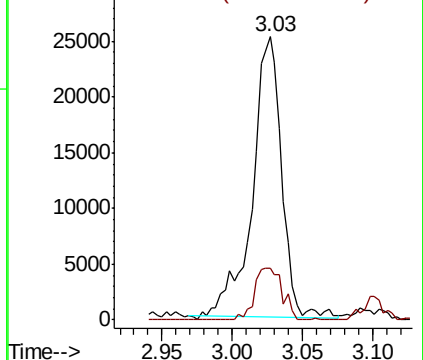
51 100

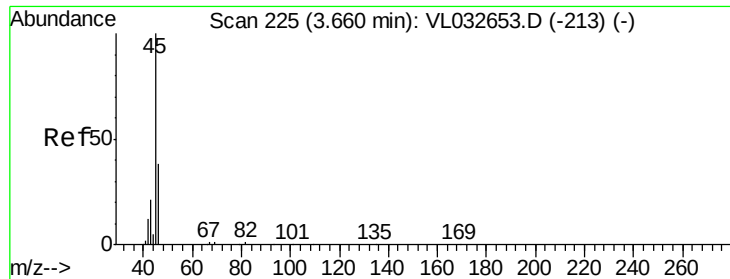
67 17.4 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





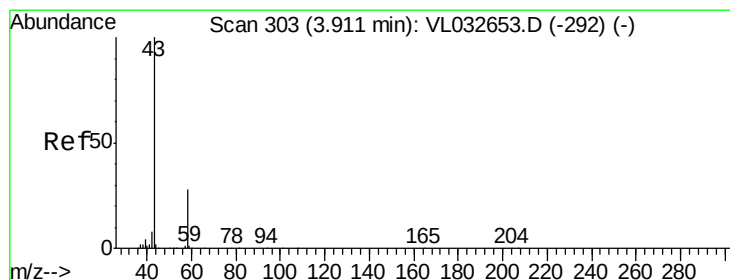
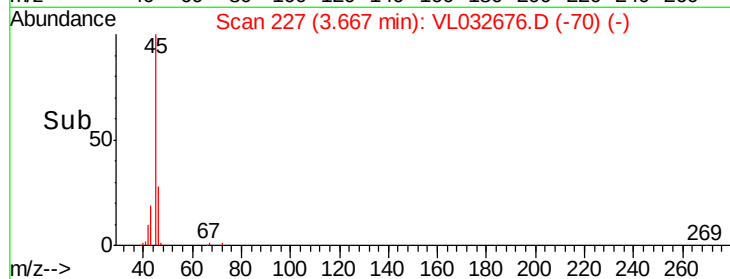
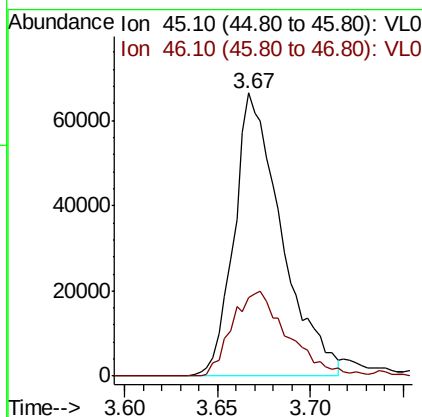
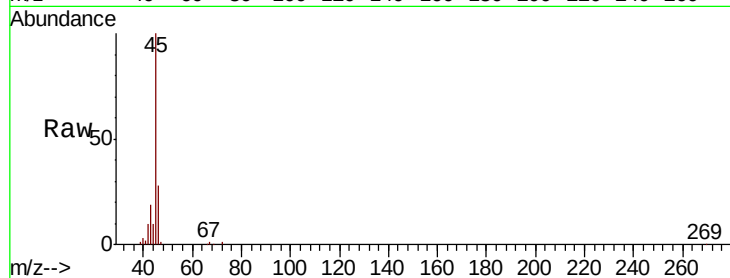
#13
Ethanol
Concen: 8.158 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032676.D
Acq: 19 Oct 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
A-4DL

Tot Ion	45	Resp	118223
Ion Ratio	100	Lower	Upper
46	36.4	15.4	61.8

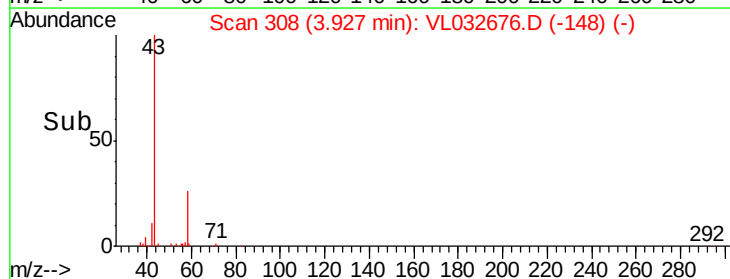
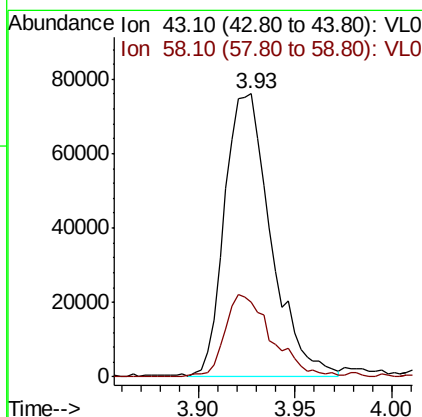
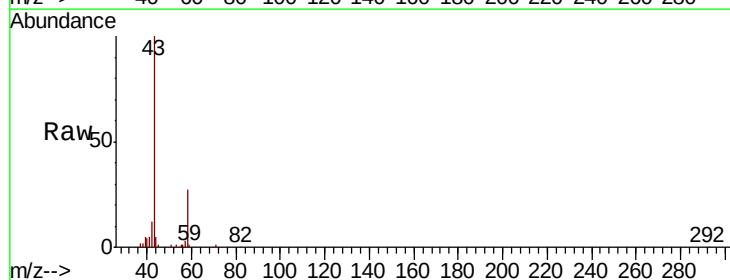
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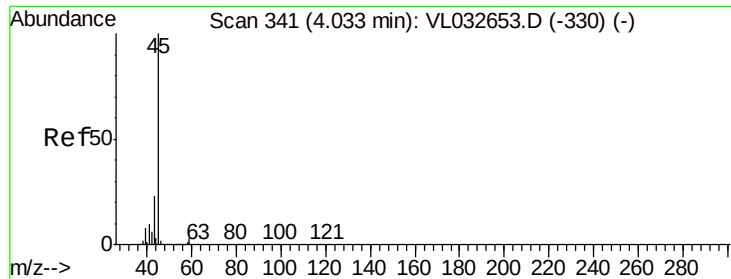
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#15
Acetone
Concen: 0.875 ppbv
RT: 3.93 min Scan# 308
Delta R.T. 0.02 min
Lab File: VL032676.D
Acq: 19 Oct 2018 9:39

Tgt Ion	43	Resp	127250
Ion Ratio	100	Lower	Upper
58	29.7	22.1	33.1





#19

Isopropyl Alcohol

Concen: 0.816 ppbv

RT: 4.06 min Scan# 350

Delta R.T. 0.03 min

Lab File: VL032676.D

Acq: 19 Oct 2018 9:39

Instrument :

MSVOA_L

ClientSampleId :

A-4DL

Tot Ion: 45 Resp: 84501

Ion Ratio Lower Upper

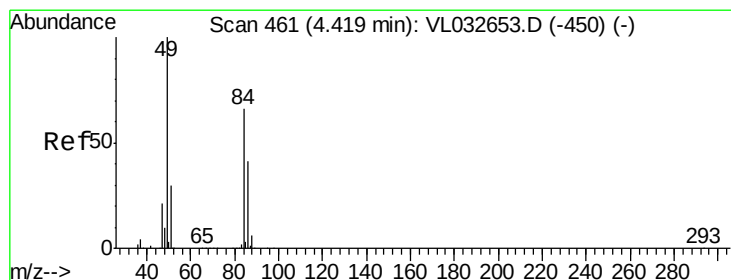
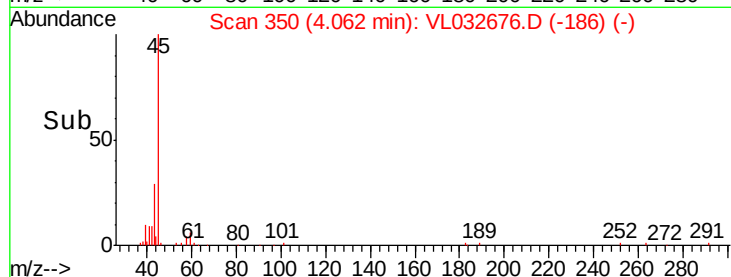
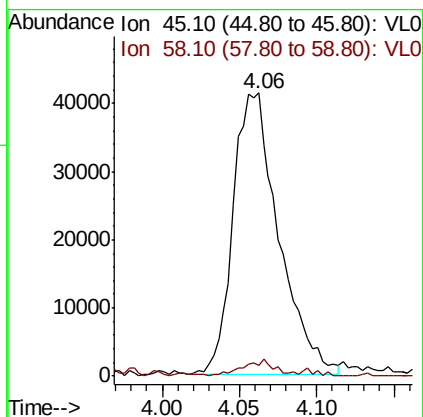
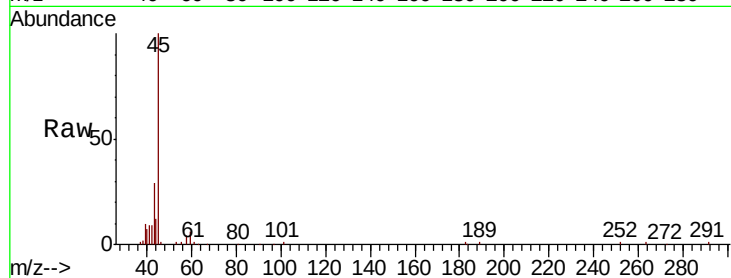
45 100

58 4.3 2.0 3.0#

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#20

Methylene Chloride

Concen: 0.313 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032676.D

Acq: 19 Oct 2018 9:39

Tgt Ion: 84 Resp: 23131

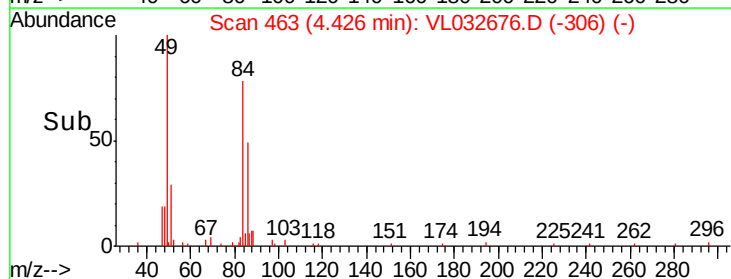
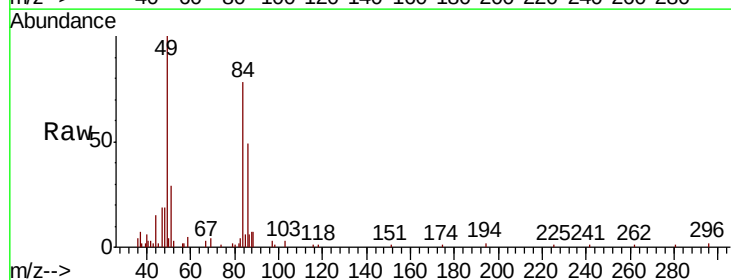
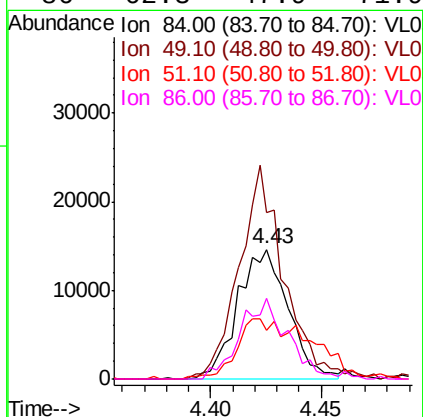
Ion Ratio Lower Upper

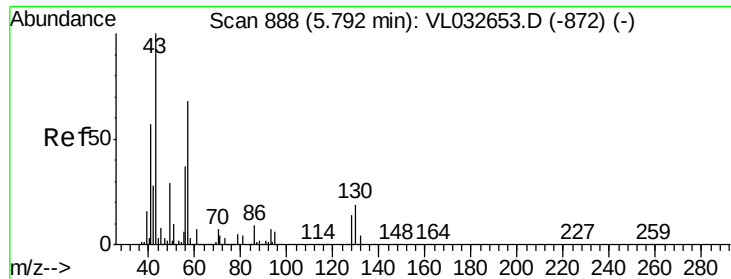
84 100

49 127.1 113.5 170.3

51 35.6 34.8 52.2

86 62.3 47.9 71.9





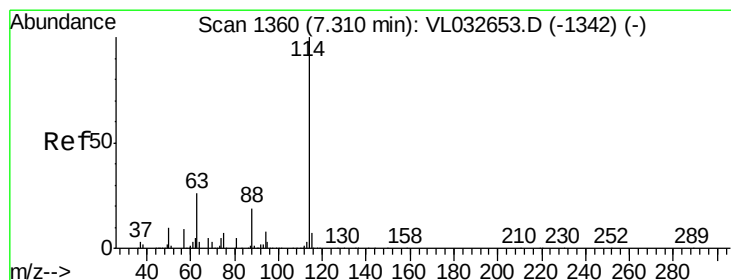
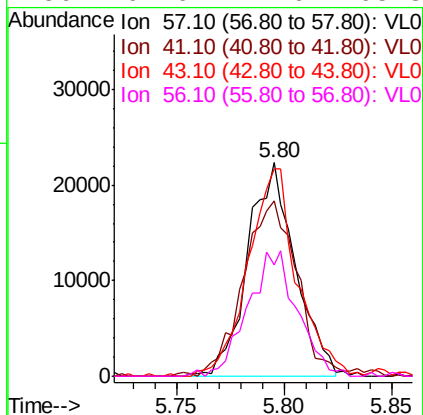
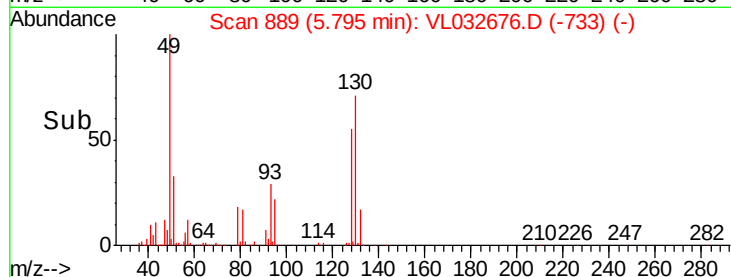
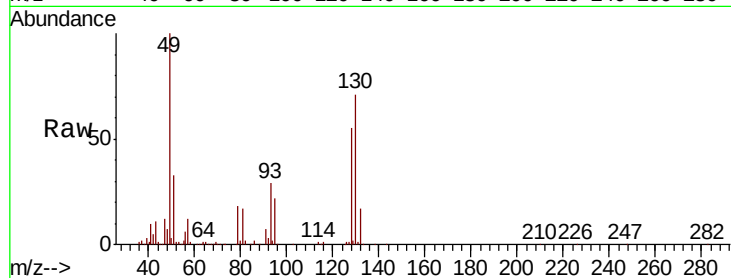
#26
Hexane
Concen: 0.215 ppbv m
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032676.D
Acq: 19 Oct 2018 9:39

Instrument :
MSVOA_L
ClientSampled :
A-4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	94.2	67.4	101.0
43	103.3	171.9	257.9#
56	61.6	42.6	63.8

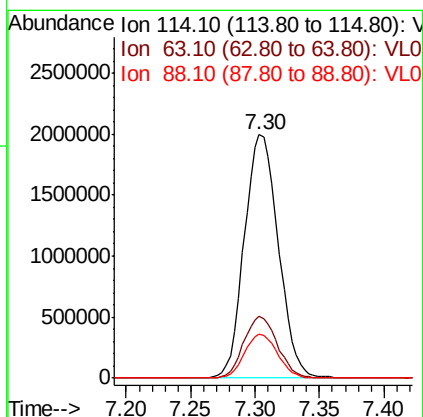
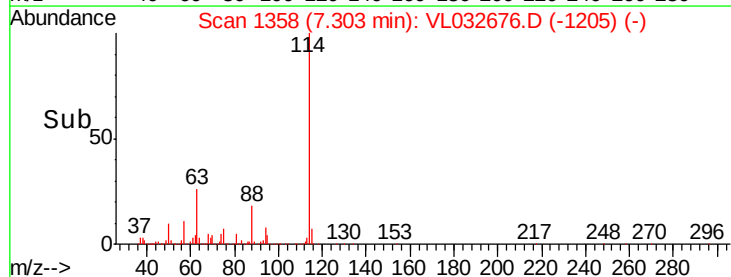
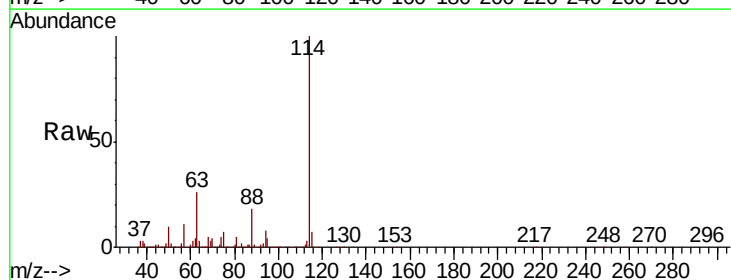
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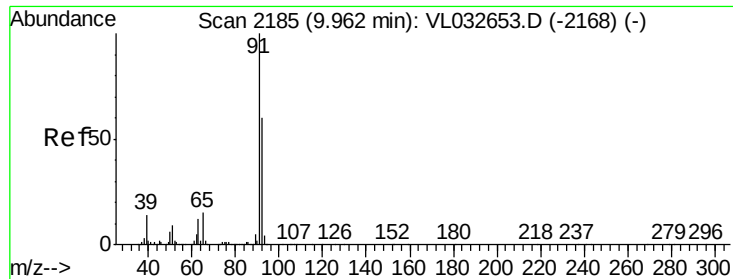
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL032676.D
Acq: 19 Oct 2018 9:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	17.8	14.9	22.3





#53

Toluene

Concen: 0.194 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032676.D

Acq: 19 Oct 2018 9:39

Instrument :

MSVOA_L

ClientSampled :

A-4DL

Tot Ion: 91 Resp: 66154

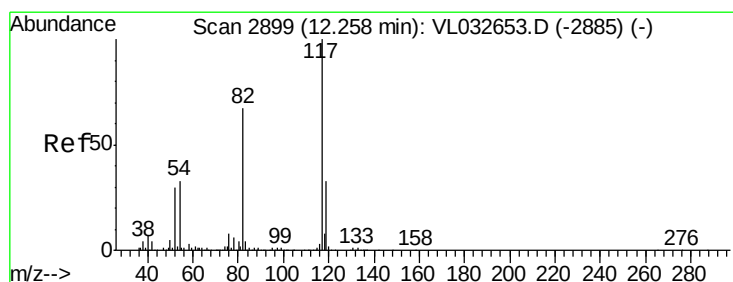
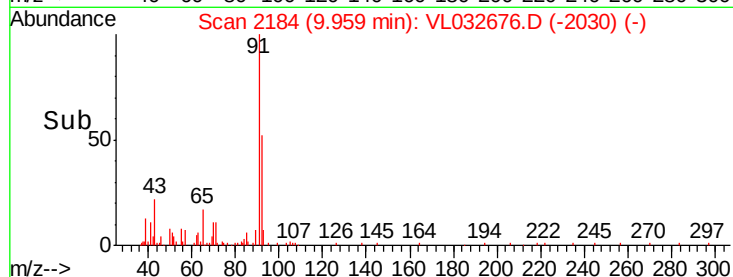
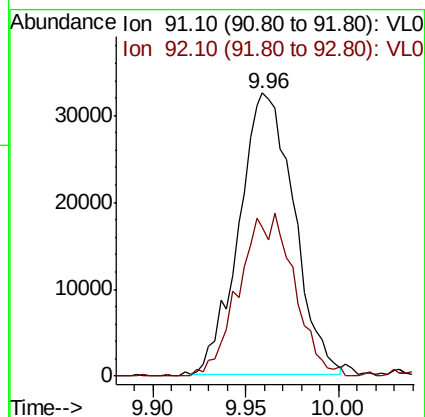
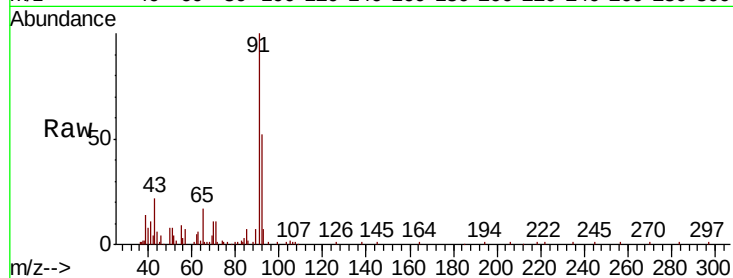
Ion Ratio Lower Upper

91 100

92 58.5 48.4 72.6

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL032676.D

Acq: 19 Oct 2018 9:39

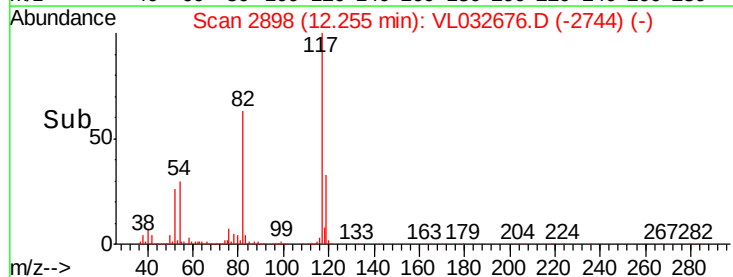
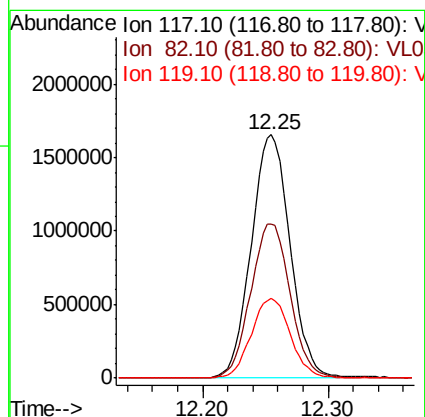
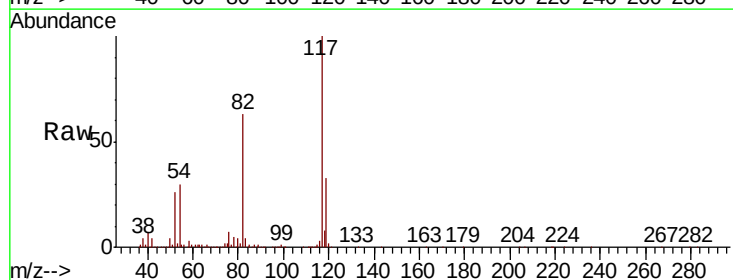
Tgt Ion: 117 Resp: 3563798

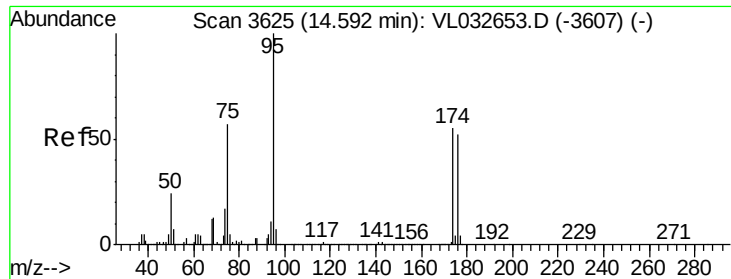
Ion Ratio Lower Upper

117 100

82 65.0 52.7 79.1

119 33.0 26.7 40.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.965 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL032676.D
 Acq: 19 Oct 2018 9:39

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.3	46.0	69.0
175	4.5	3.4	5.0

Manual Integrations
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