

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032671.D
 Acq On : 19 Oct 2018 6:23
 Operator : SY/AP
 Sample : J5581-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:05:40 PM

Quant Time: Oct 23 10:00:52 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	1342261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3317578	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3208029	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2338055	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	33886	0.248	ppbv	90
3) Chlorodifluoromethane	3.02	51	37721m	0.359	ppbv	
4) Chloromethane	3.18	50	29407	0.501	ppbv	92
9) Propene	3.06	41	28843	0.668	ppbv #	77
11) Trichlorofluoromethane	4.02	101	41282	0.231	ppbv	99
13) Ethanol	3.66	45	552552	44.753	ppbv	98
15) Acetone	3.91	43	363790	2.935	ppbv	96
19) Isopropyl Alcohol	4.05	45	65329	0.740	ppbv #	91
20) Methylene Chloride	4.42	84	218785	3.477	ppbv	98
26) Hexane	5.80	57	670120	4.964	ppbv #	45
34) 2-Butanone	5.35	43	58137m	0.327	ppbv	
35) Carbon Tetrachloride	7.15	117	18456m	0.078	ppbv	
36) Benzene	7.02	78	34867	0.129	ppbv #	90
52) Tetrachloroethene	11.40	164	2627m	0.028	ppbv	
53) Toluene	9.96	91	2076068	6.723	ppbv	98

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

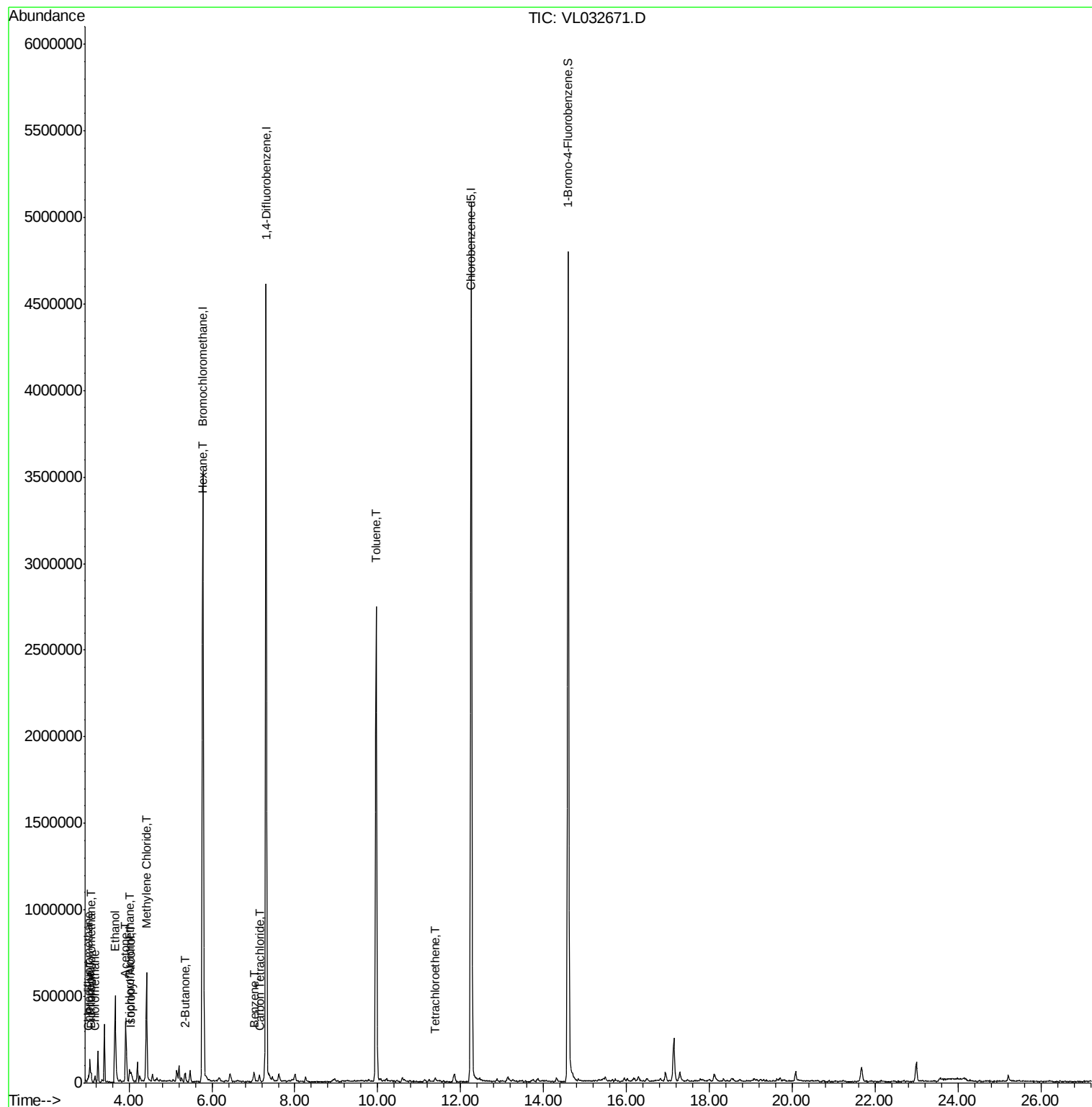
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032671.D
Acq On : 19 Oct 2018 6:23
Operator : SY/AP
Sample : J5581-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

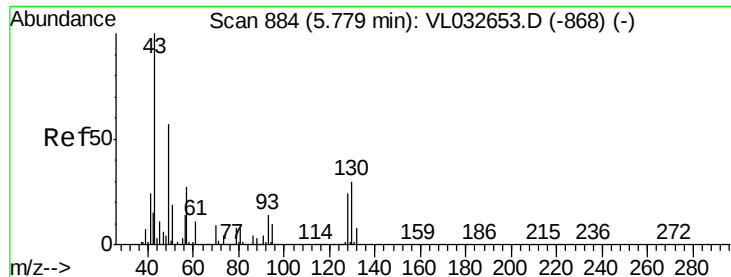
Instrument :
MSVOA_L
ClientSampleId :
A-2

Manual Integrations
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Quant Time: Oct 23 10:00:52 2018
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: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampled :

A-2

Tot Ion: 49 Resp: 1342261

Ion Ratio Lower Upper

49 100

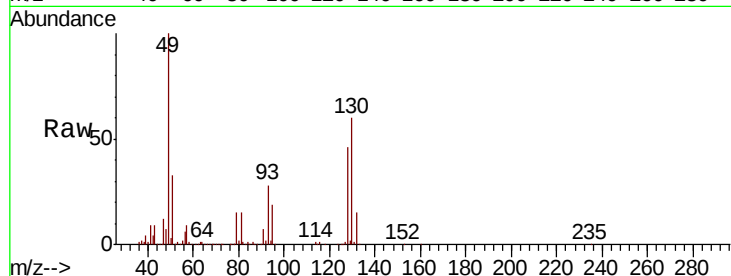
128 48.7 22.3 66.8

130 61.6 28.4 85.3

Manual Integrations
APPROVED

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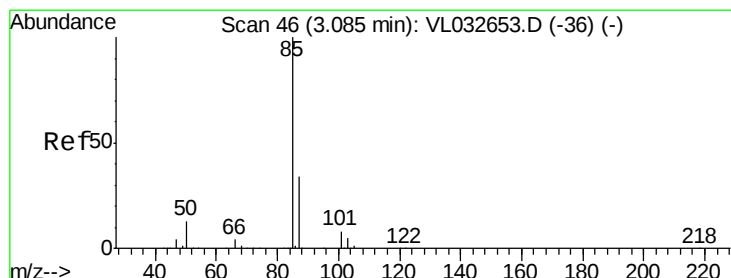
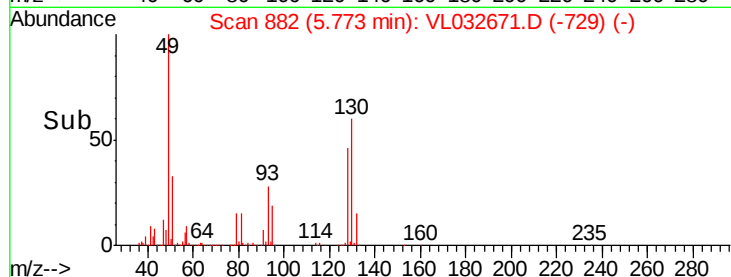
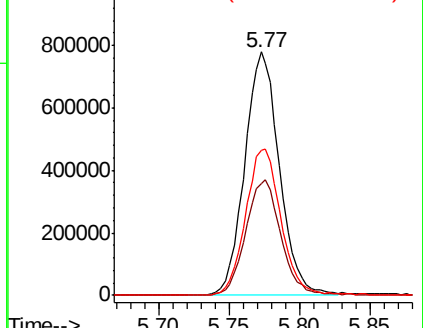
10/24/2018 12:05:40 PM



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: 0.248 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032671.D

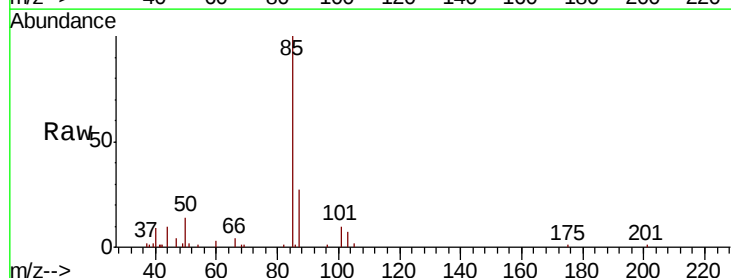
Acq: 19 Oct 2018 6:23

Tgt Ion: 85 Resp: 33886

Ion Ratio Lower Upper

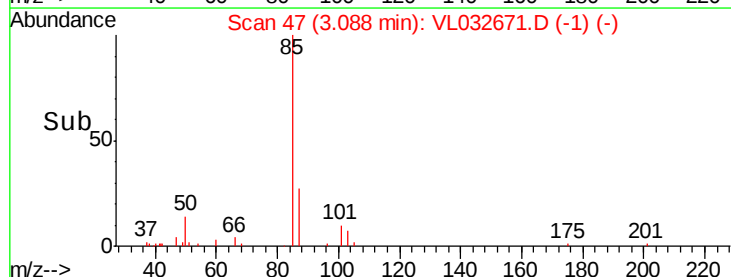
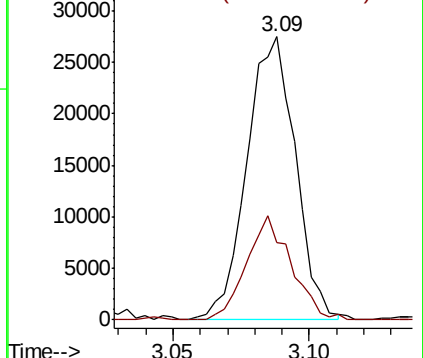
85 100

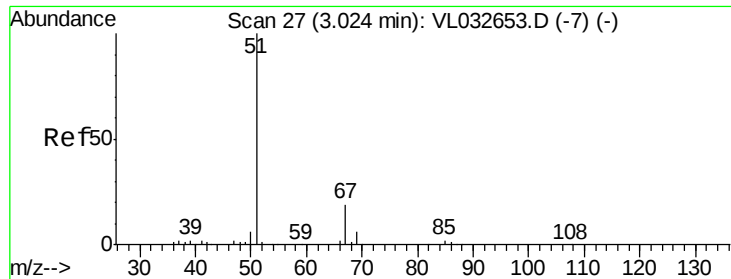
87 27.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.359 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 51 Resp: 37721

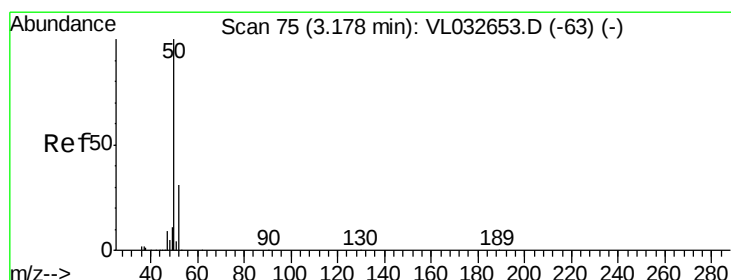
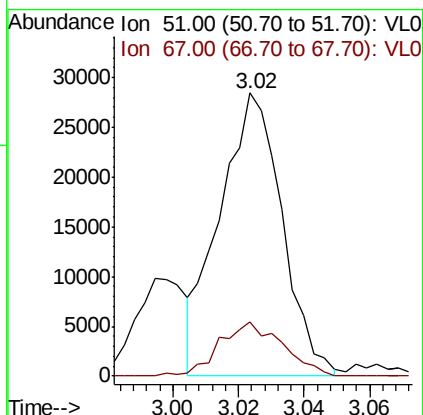
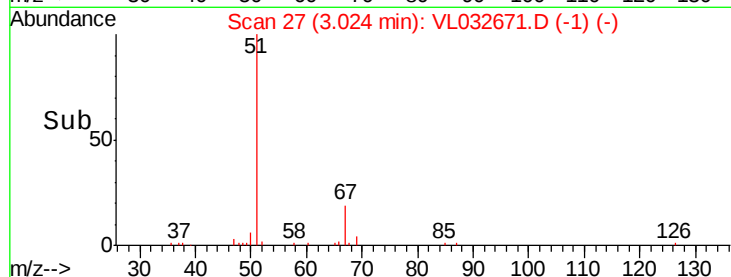
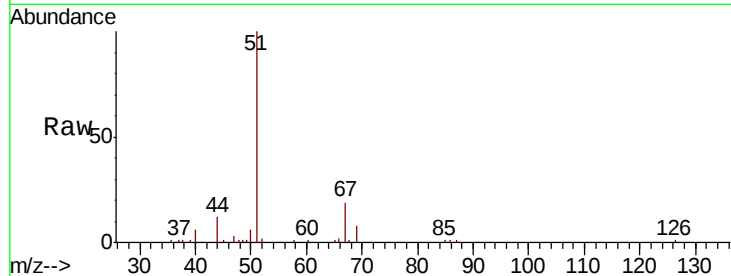
Ion Ratio Lower Upper

51 100

67 19.3 15.2 22.8

Manual Integrations
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#4

Chloromethane

Concen: 0.501 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032671.D

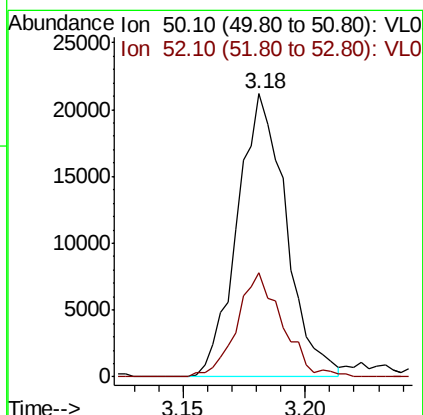
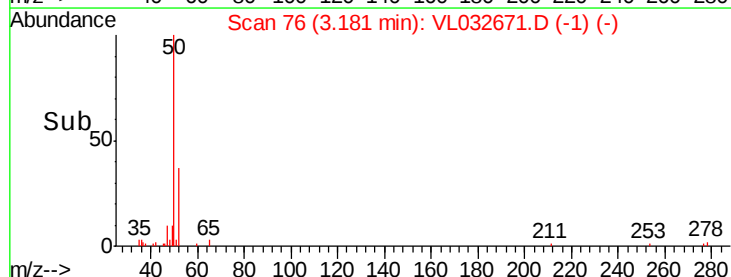
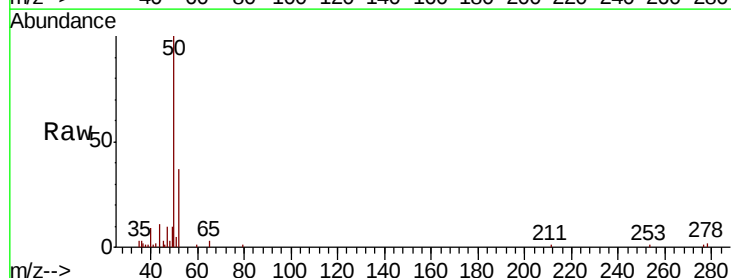
Acq: 19 Oct 2018 6:23

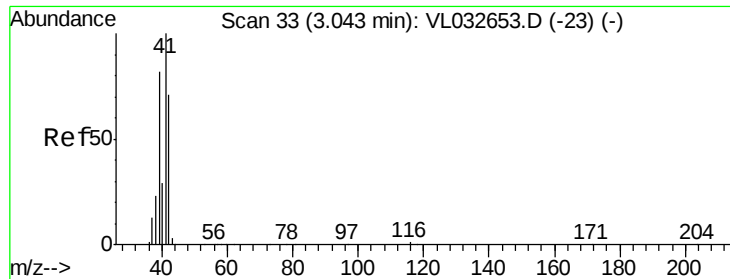
Tgt Ion: 50 Resp: 29407

Ion Ratio Lower Upper

50 100

52 36.7 25.9 38.9





#9

Propene

Concen: 0.668 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampled :

A-2

Tot Ion: 41 Resp: 28843

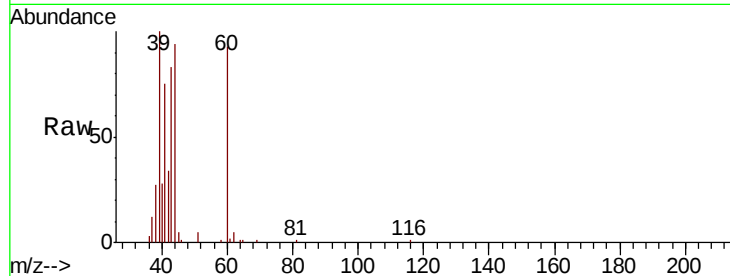
Ion Ratio Lower Upper

41 100

42 50.4 55.4 83.0#

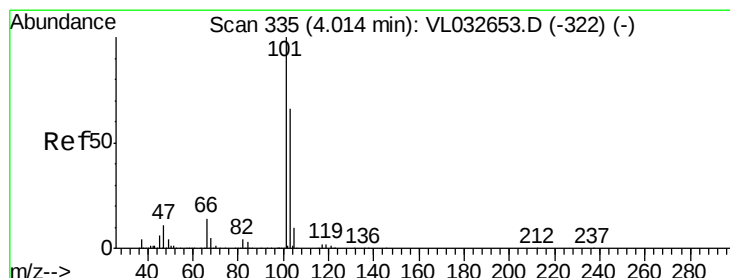
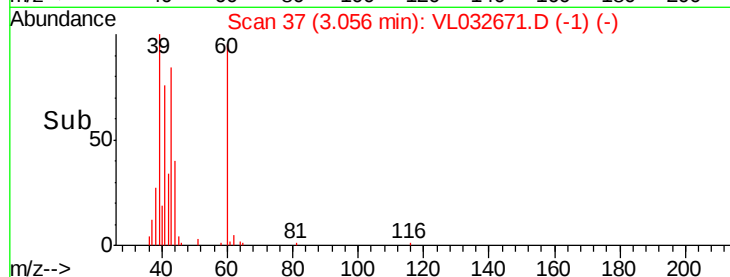
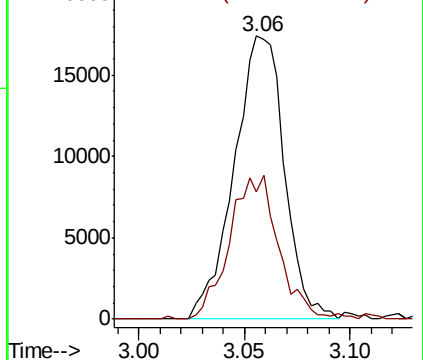
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.231 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL032671.D

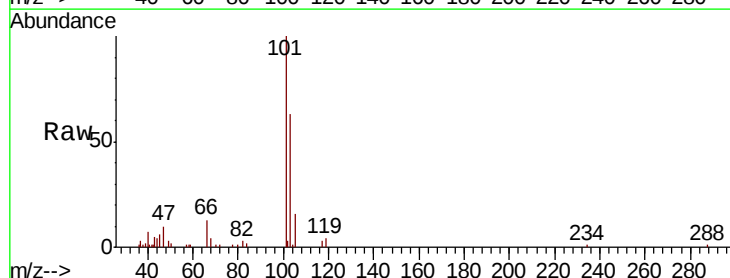
Acq: 19 Oct 2018 6:23

Tgt Ion: 101 Resp: 41282

Ion Ratio Lower Upper

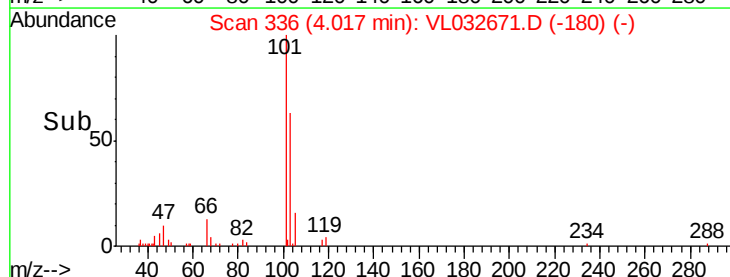
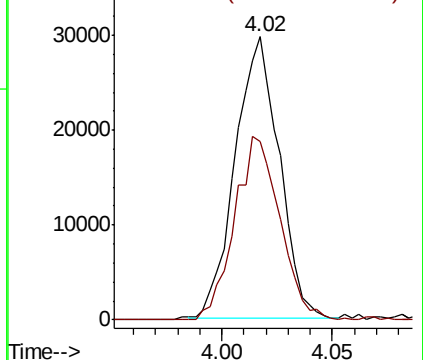
101 100

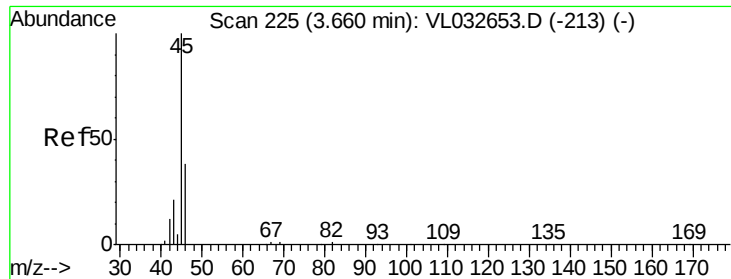
103 63.4 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 44.753 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 45 Resp: 552552

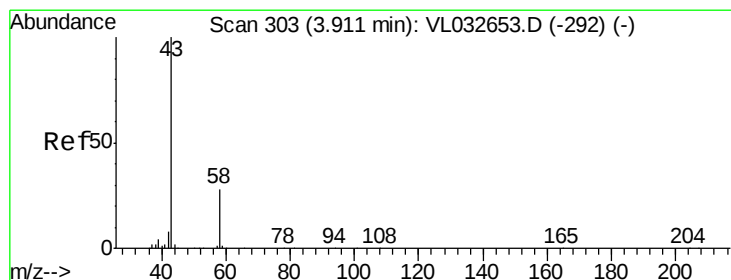
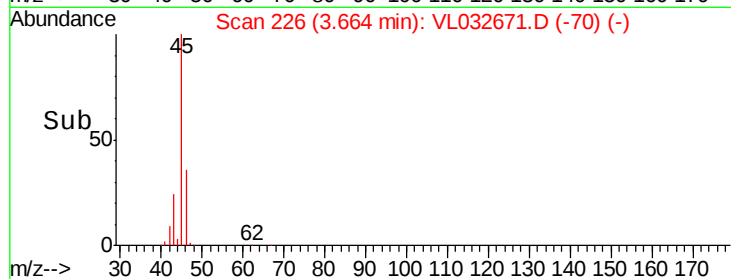
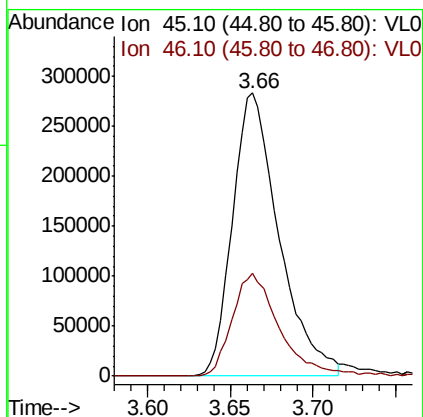
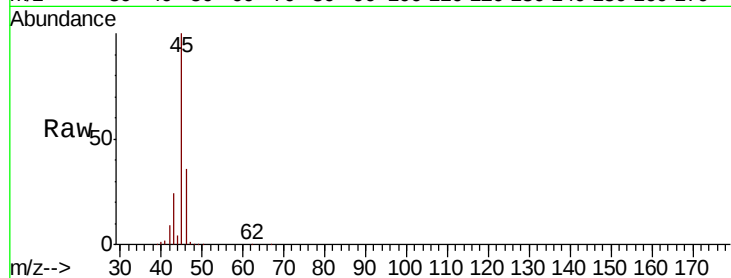
Ion Ratio Lower Upper

45 100

46 37.4 15.4 61.8

Manual Integrations
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#15

Acetone

Concen: 2.935 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032671.D

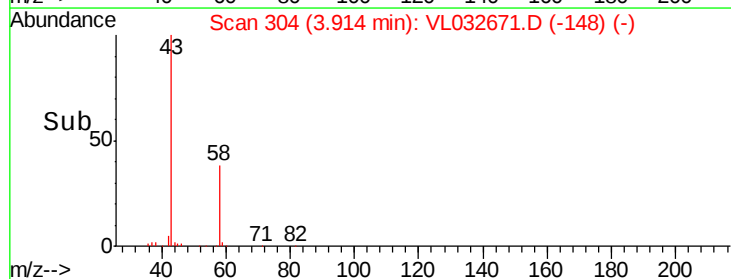
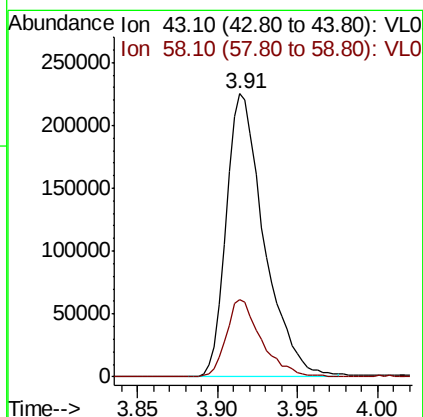
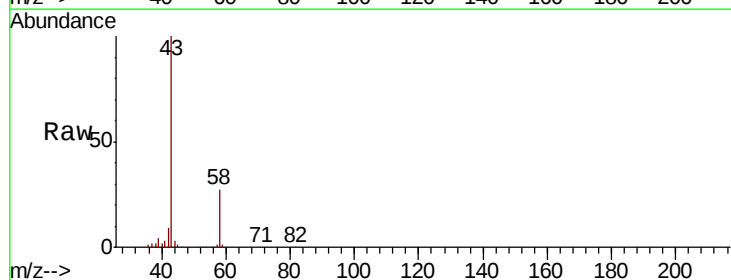
Acq: 19 Oct 2018 6:23

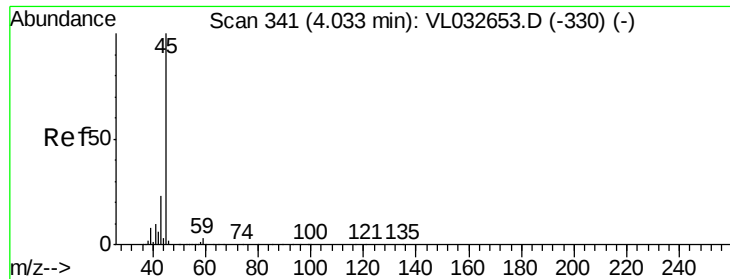
Tgt Ion: 43 Resp: 363790

Ion Ratio Lower Upper

43 100

58 25.5 22.1 33.1





#19

Isopropyl Alcohol

Concen: 0.740 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 45 Resp: 65329

Ion Ratio Lower Upper

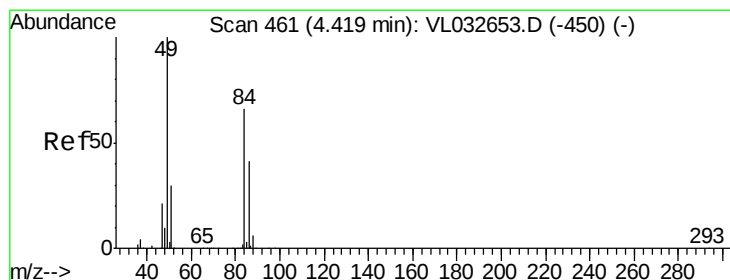
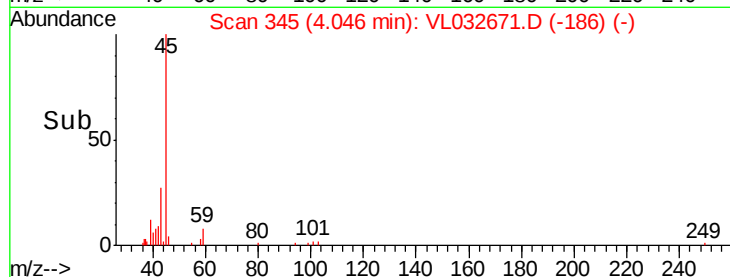
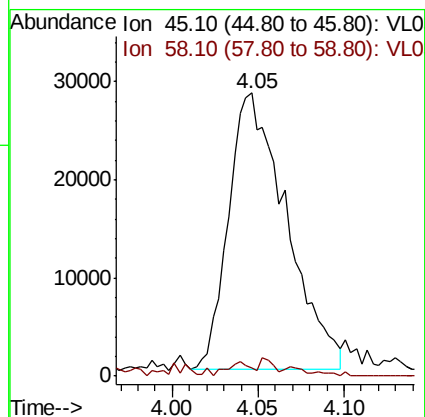
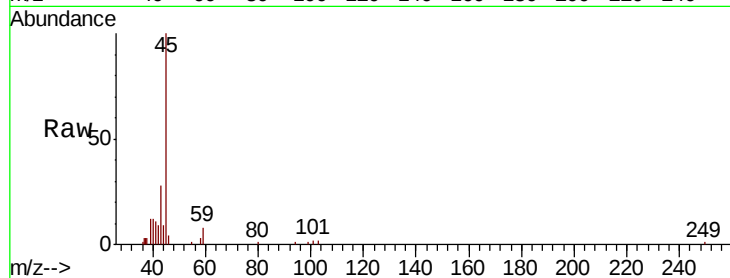
45 100

58 5.7 2.0 3.0#

Manual Integrations
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#20

Methylene Chloride

Concen: 3.477 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Tgt Ion: 84 Resp: 218785

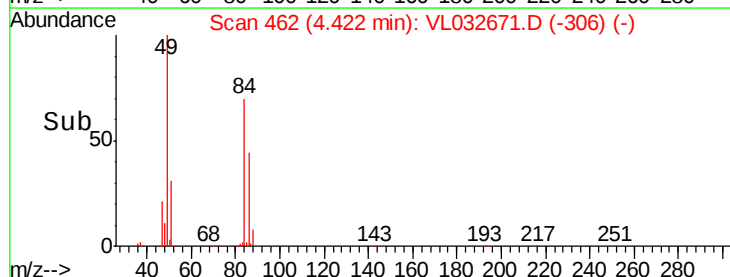
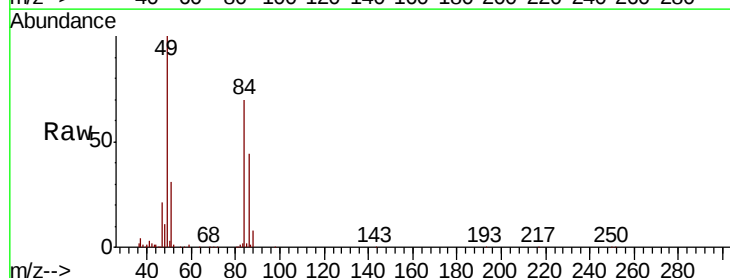
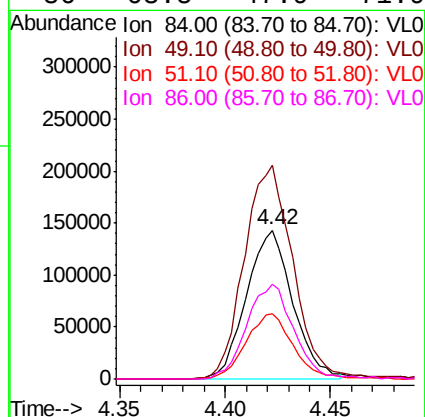
Ion Ratio Lower Upper

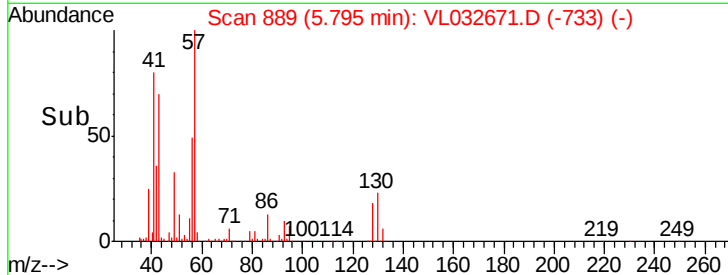
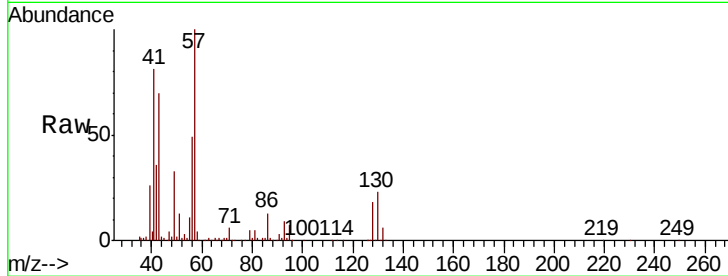
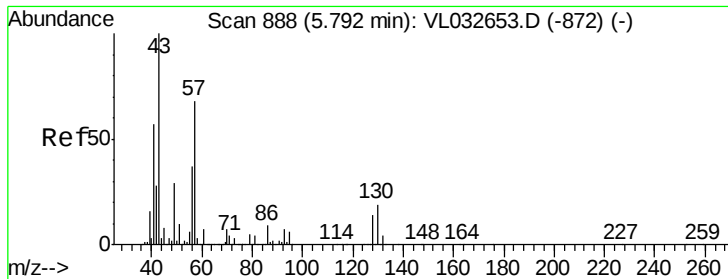
84 100

49 143.9 113.5 170.3

51 44.0 34.8 52.2

86 63.5 47.9 71.9





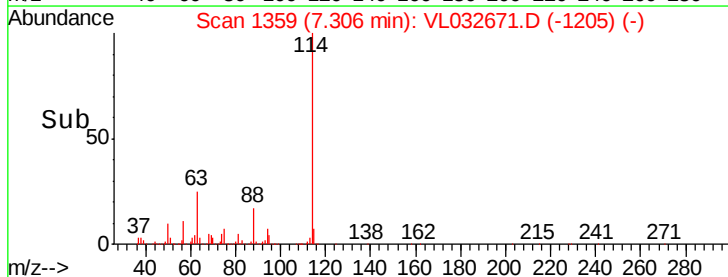
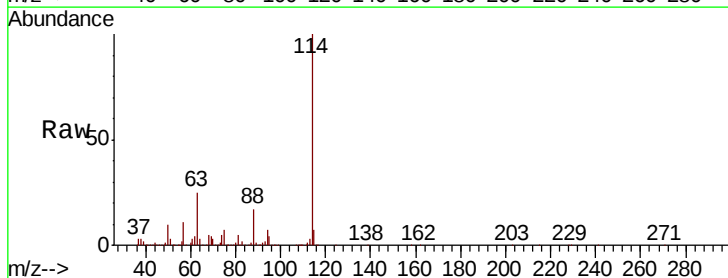
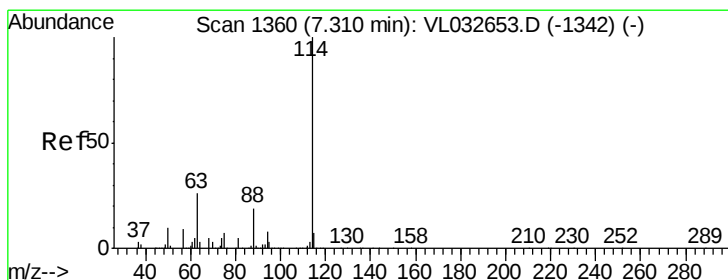
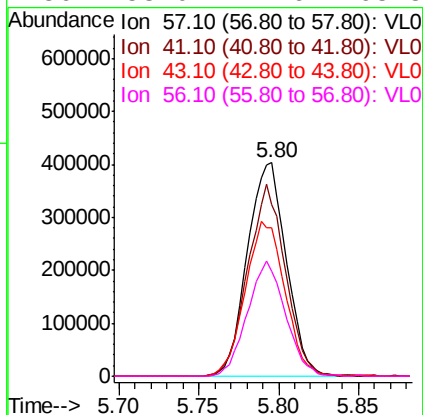
#26
Hexane
Concen: 4.964 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tot Ion	Ratio	Lower	Upper
57	100		
41	87.3	67.4	101.0
43	74.2	171.9	257.9#
56	53.0	42.6	63.8

Instrument :
MSVOA_L
ClientSampled :
A-2

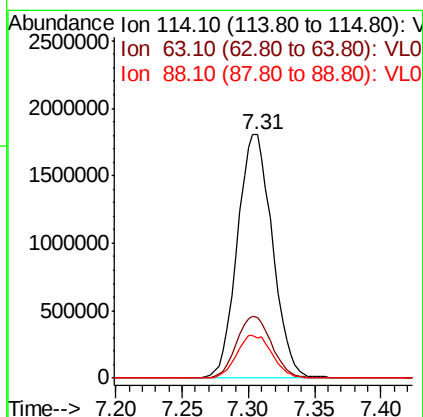
Manual Integrations
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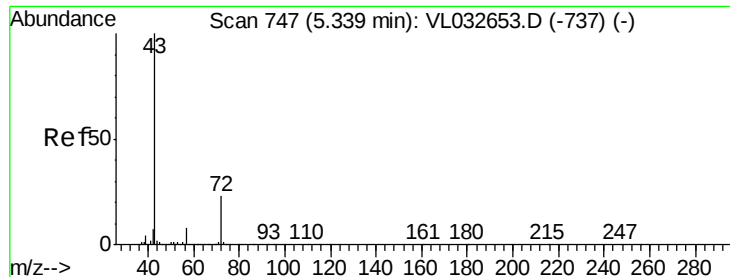
MMDadoda
10/24/2018 12:05:40 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.7	32.5
88	17.8	14.9	22.3





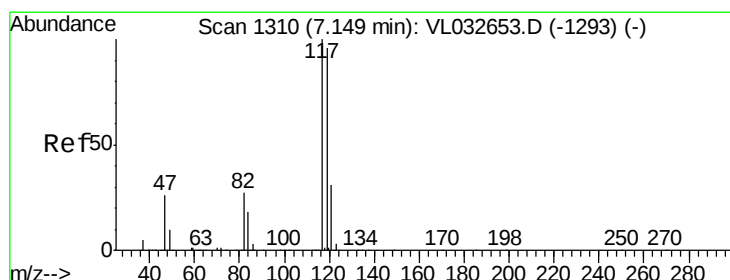
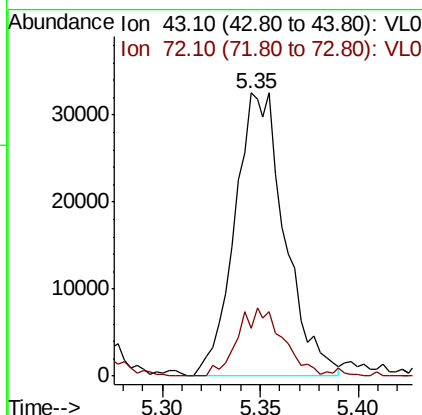
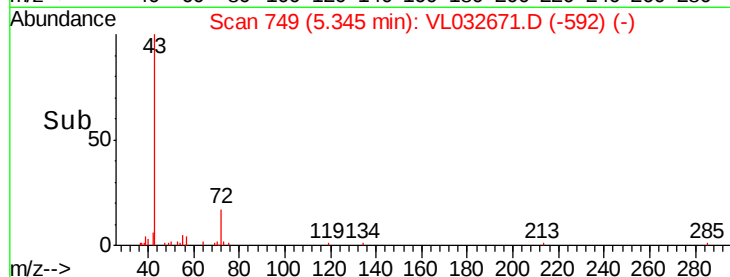
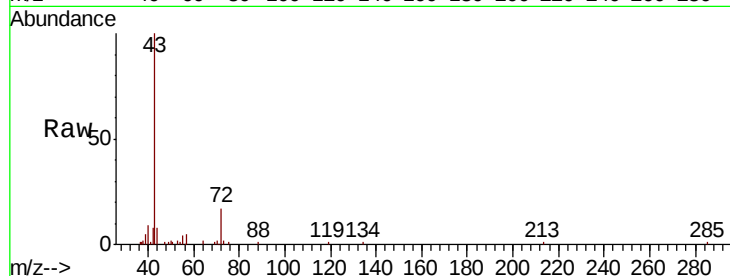
#34
2-Butanone
Concen: 0.327 ppbv m
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Instrument :
MSVOA_L
ClientSampled :
A-2

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.6	27.8

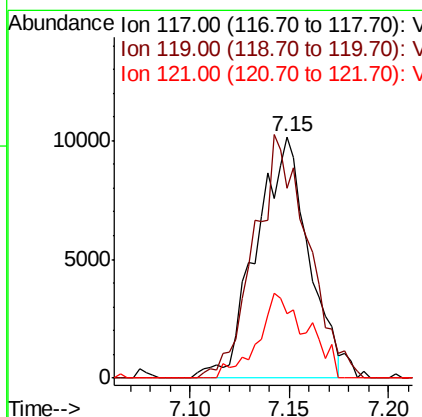
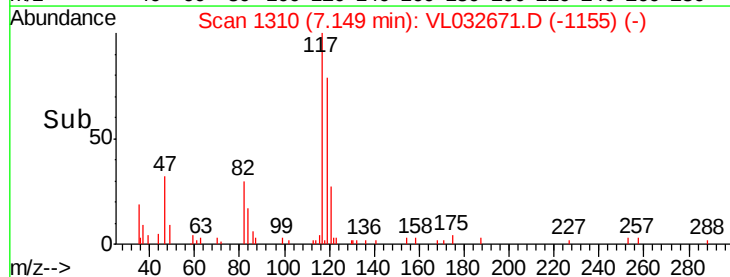
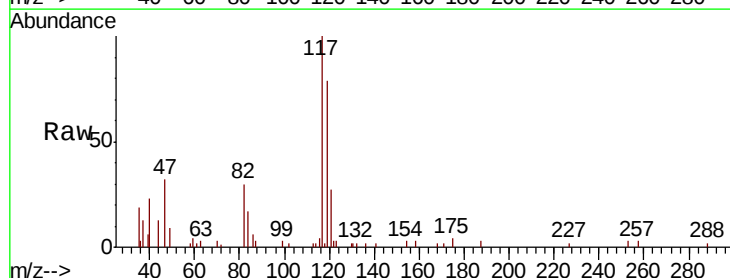
Manual Integrations
APPROVED

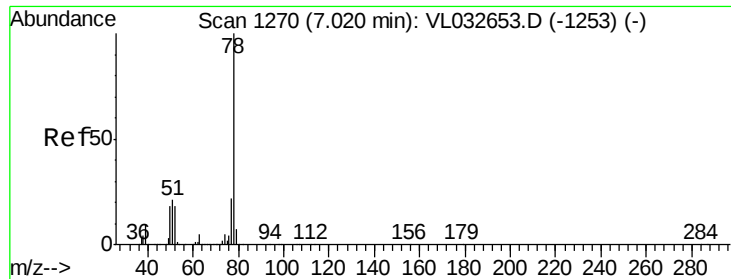
MMDadoda
10/24/2018 12:05:40 PM



#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL032671.D
Acq: 19 Oct 2018 6:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.8	75.7	113.5
121	26.5	24.7	37.1





#36

Benzene

Concen: 0.129 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

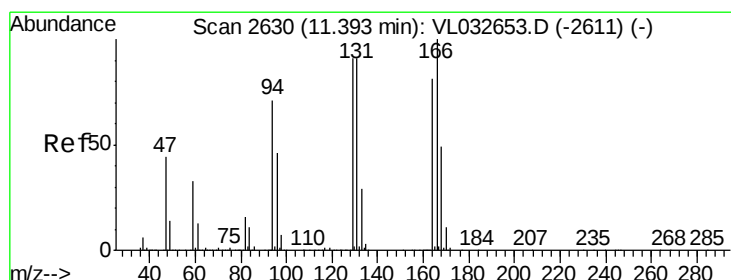
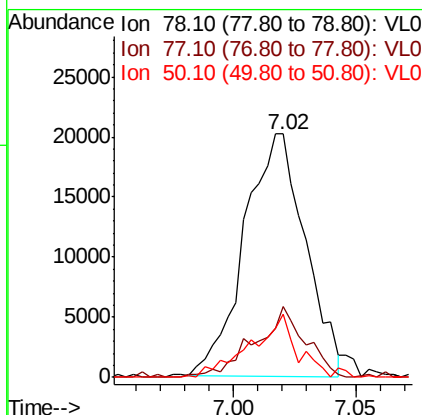
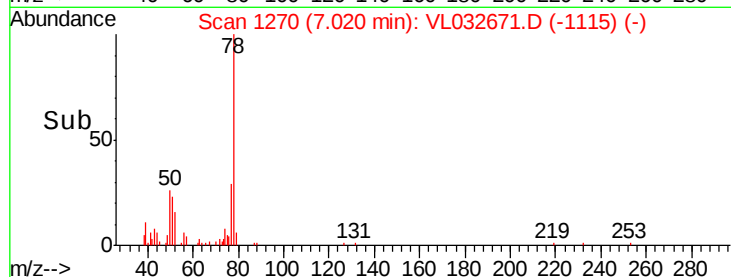
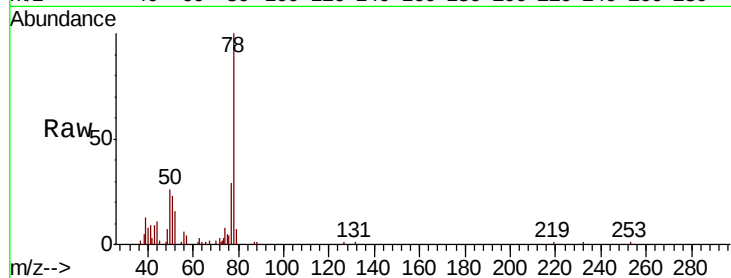
ClientSampled :

A-2

Tot Ion:	78	Resp:	34867
Ion Ratio	Lower	Upper	
78	100		
77	28.1	18.1	27.1#
50	22.6	15.1	22.7

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.028 ppbv m

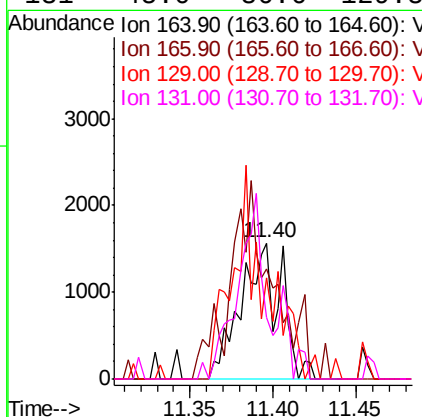
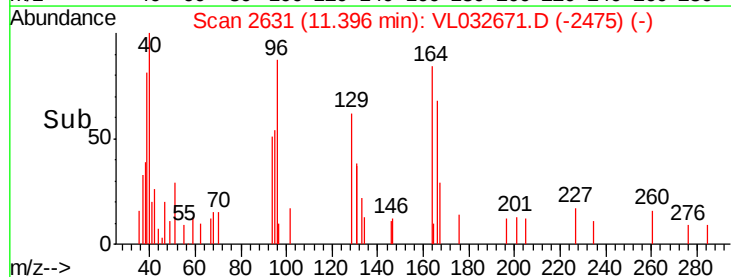
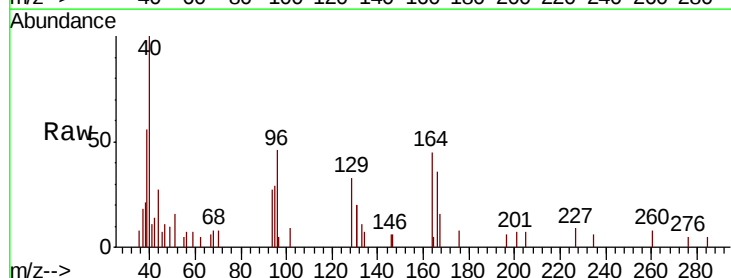
RT: 11.40 min Scan# 2631

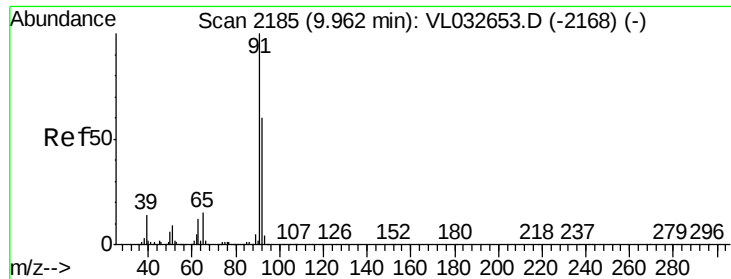
Delta R.T. 0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Tgt Ion:	164	Resp:	2627
Ion Ratio	Lower	Upper	
164	100		
166	81.2	100.5	150.7#
129	74.1	90.0	135.0#
131	45.0	86.6	129.8#





#53

Toluene

Concen: 6.723 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 91 Resp: 2076068

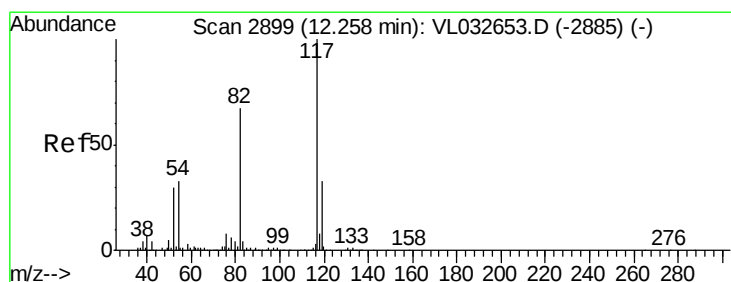
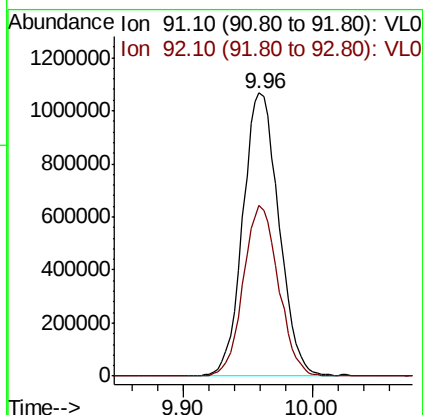
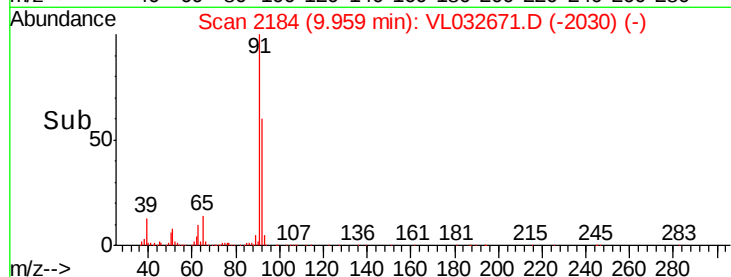
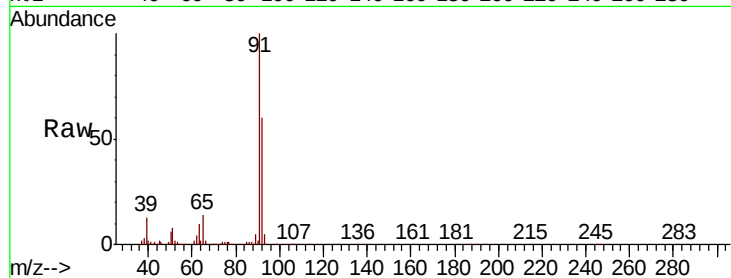
Ion Ratio Lower Upper

91 100

92 58.9 48.4 72.6

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032671.D

Acq: 19 Oct 2018 6:23

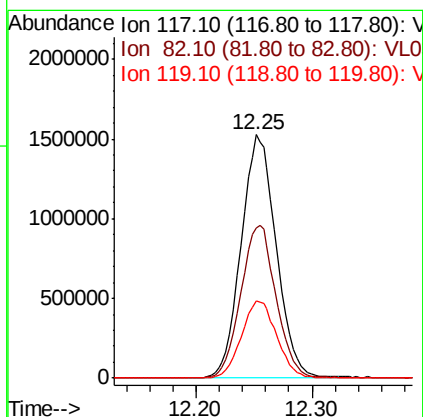
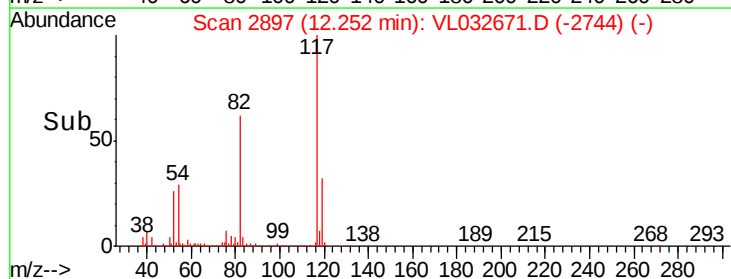
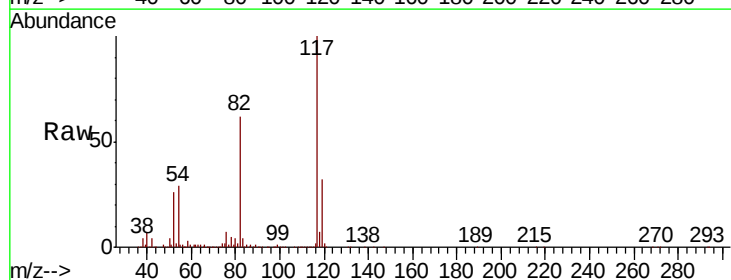
Tgt Ion: 117 Resp: 3208029

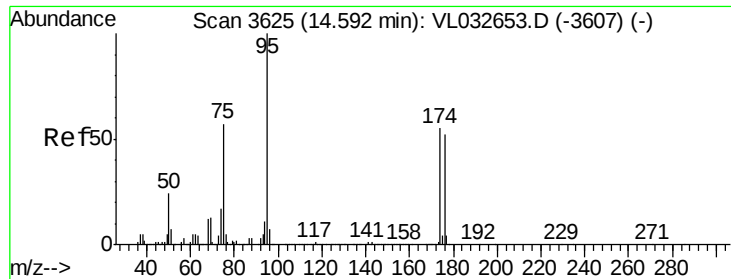
Ion Ratio Lower Upper

117 100

82 63.9 52.7 79.1

119 32.1 26.7 40.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.788 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL032671.D
 Acq: 19 Oct 2018 6:23

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.8	46.0	69.0
175	4.8	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:05:40 PM

