

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032383.D
 Acq On : 16 Aug 2018 19:02
 Operator : SY/AP
 Sample : J4266-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1000DL

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 3:11:49 PM

Quant Time: Aug 17 03:42:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1825627	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3637997	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3532933	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3003464	11.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.33	62	400817	4.18	ppbv	96
13) Ethanol	3.70	45	34121m	1.84	ppbv	
15) Acetone	3.96	43	99805	0.58	ppbv	100
20) Methylene Chloride	4.46	84	159077	2.43	ppbv	97
26) Hexane	5.83	57	26909	0.16	ppbv #	43
29) Chloroform	5.90	83	1250992	5.15	ppbv	99
36) Benzene	7.06	78	953059	3.09	ppbv	99
37) 1,2-Dichloroethane	6.47	62	580444	3.10	ppbv	98
39) 1,2-Dichloropropane	7.79	63	643941	5.00	ppbv	98
52) Tetrachloroethene	11.44	164	337991	3.72	ppbv	98
54) 1,2-Dibromoethane	10.83	107	1038818	5.70	ppbv	99
57) Chlorobenzene	12.37	112	809355	3.04	ppbv	97
60) o-Xylene	13.92	91	831856	2.34	ppbv	96
77) 1,2-Dichlorobenzene	18.05	146	937821	4.03	ppbv	99

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

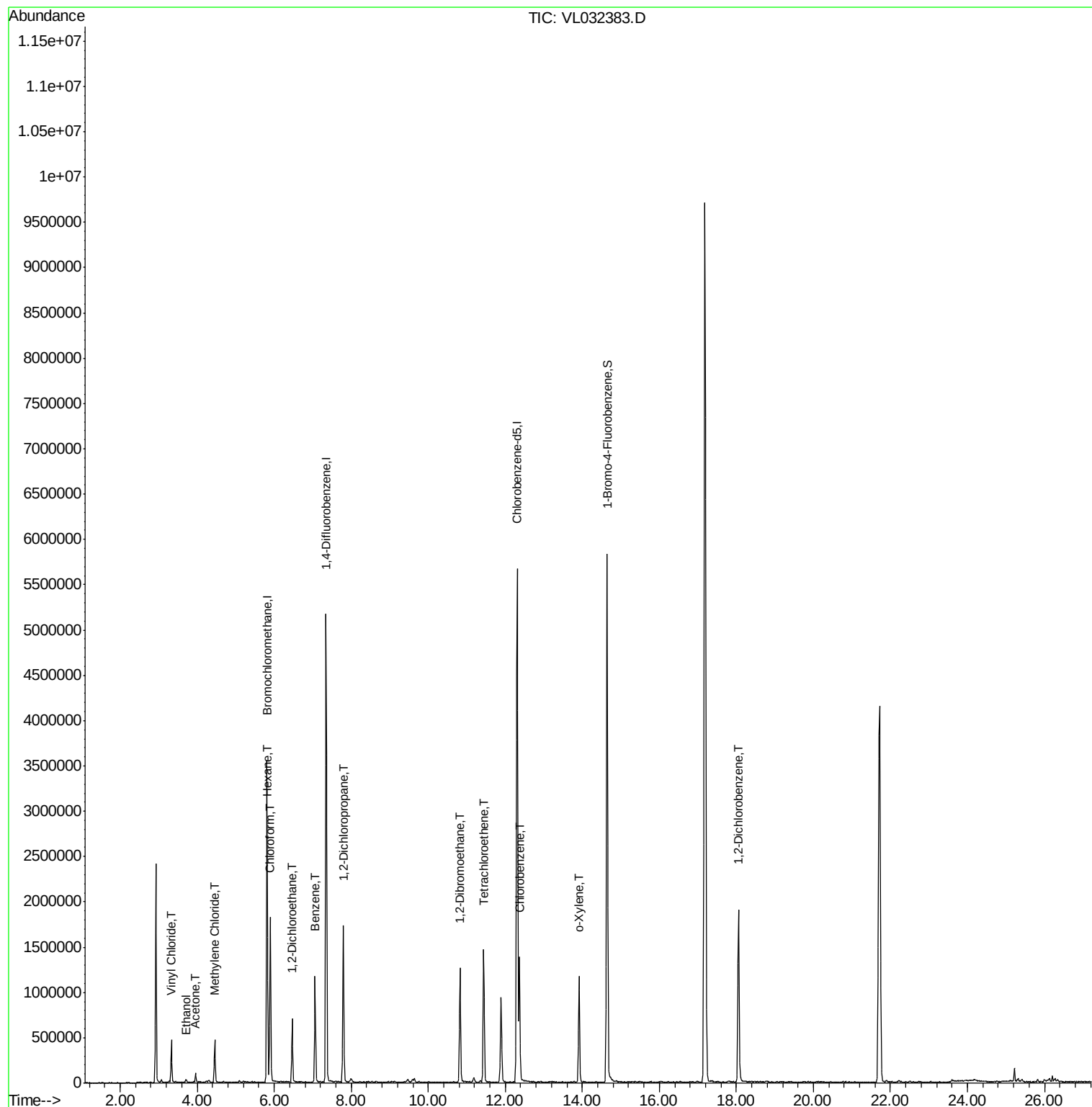
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081618\
Data File : VL032383.D
Acq On : 16 Aug 2018 19:02
Operator : SY/AP
Sample : J4266-01DL 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

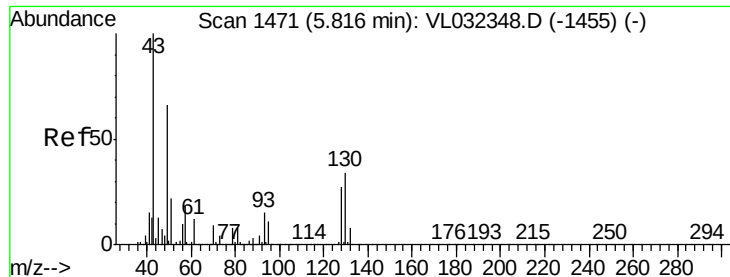
Instrument :
MSVOA_L
ClientSampleId :
1000DL

Manual Integrations
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8/20/2018 3:11:49 PM

Quant Time: Aug 17 03:42:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

Instrument :

MSVOA_L

ClientSampled :

1000DL

Tot Ion: 49 Resp: 1825627

Ion Ratio Lower Upper

49 100

128 40.6 20.5 61.6

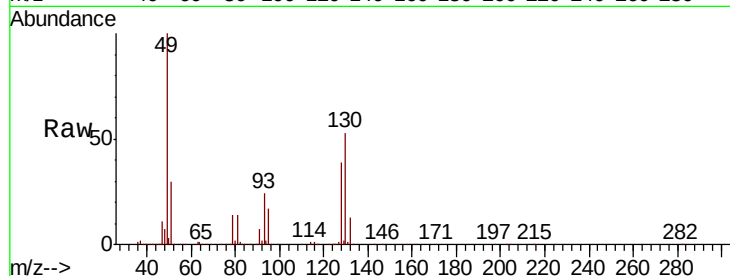
130 52.6 26.2 78.5

Manual Integrations

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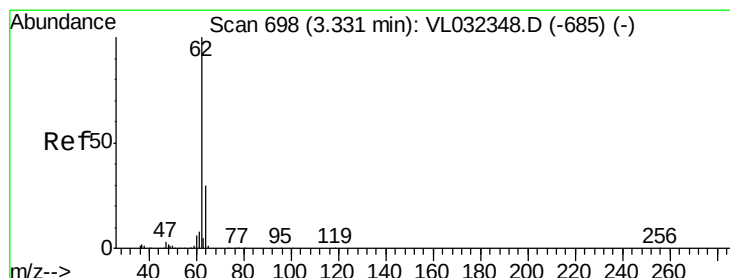
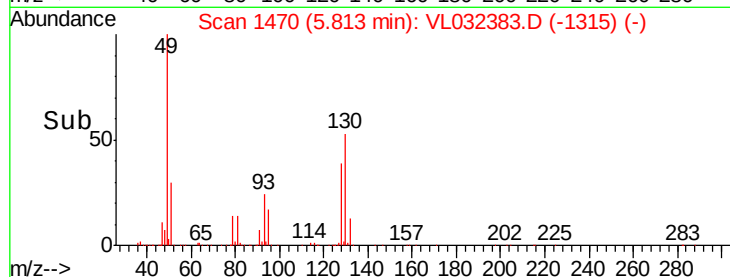
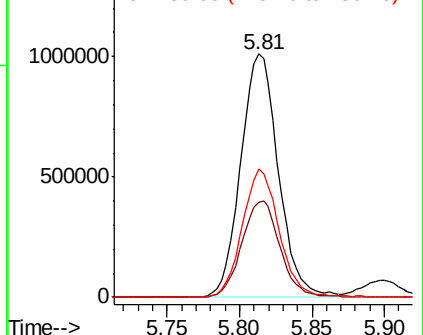
8/20/2018 3:11:49 PM



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



#5

Vinyl Chloride

Concen: 4.18 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL032383.D

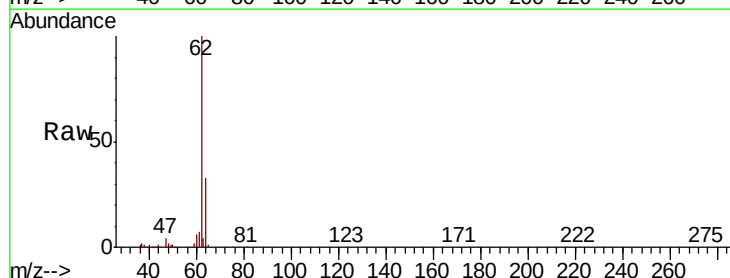
Acq: 16 Aug 2018 19:02

Tgt Ion: 62 Resp: 400817

Ion Ratio Lower Upper

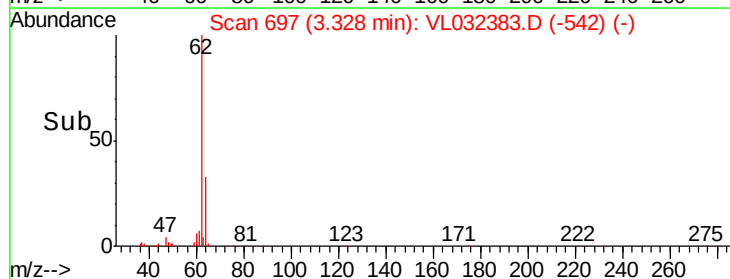
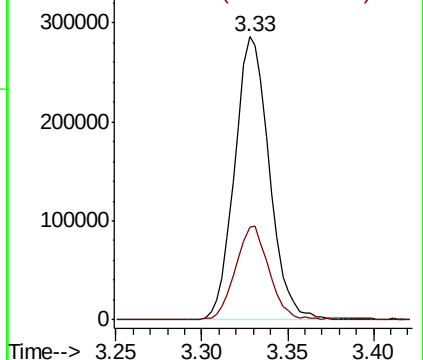
62 100

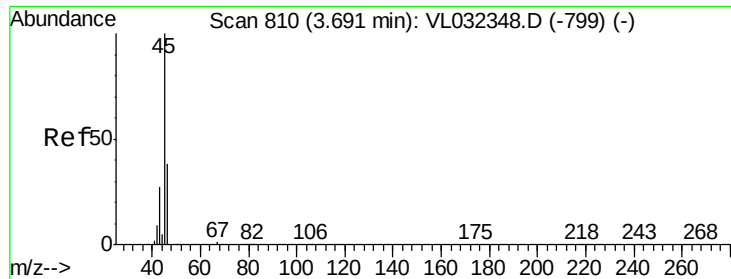
64 32.5 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





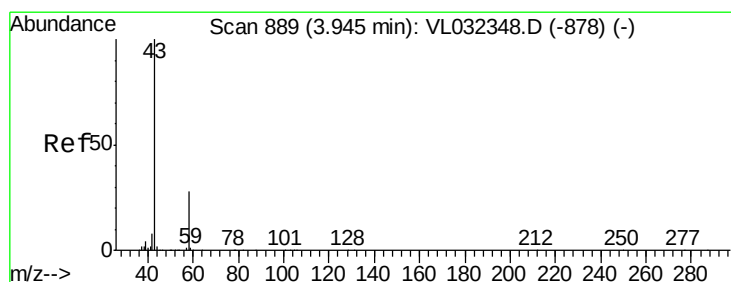
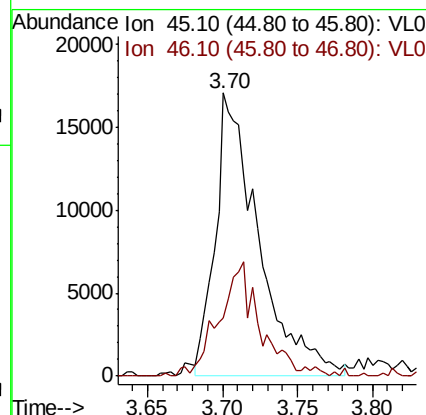
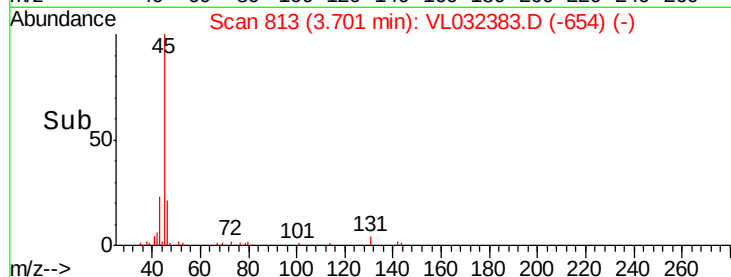
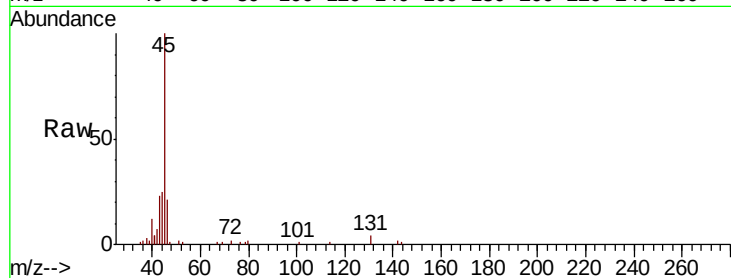
#13
Ethanol
Concen: 1.84 ppbv m
RT: 3.70 min Scan# 813
Delta R.T. 0.01 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Instrument :
MSVOA_L
ClientSampleId :
1000DL

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.6	62.4#

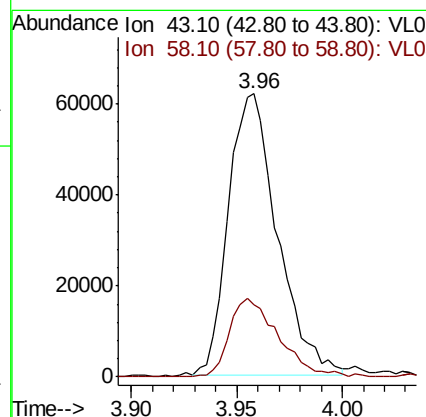
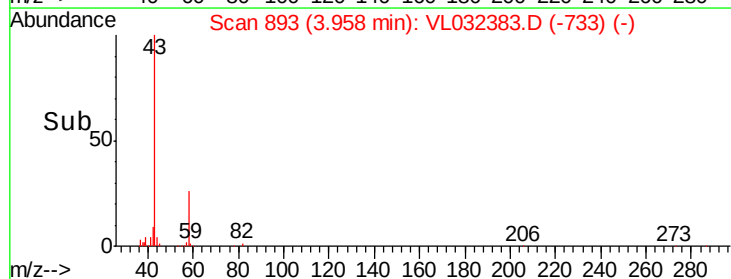
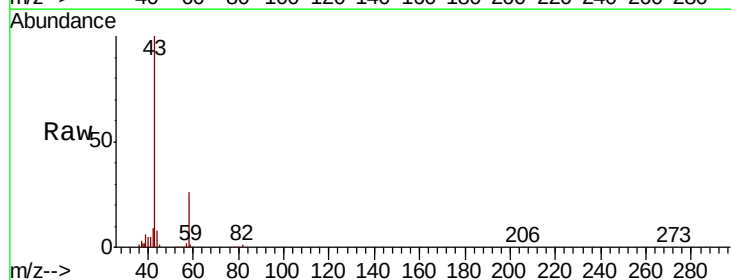
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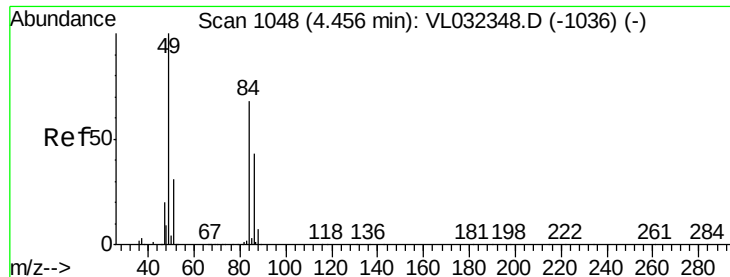
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#15
Acetone
Concen: 0.58 ppbv
RT: 3.96 min Scan# 893
Delta R.T. 0.01 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.2	22.4	33.6





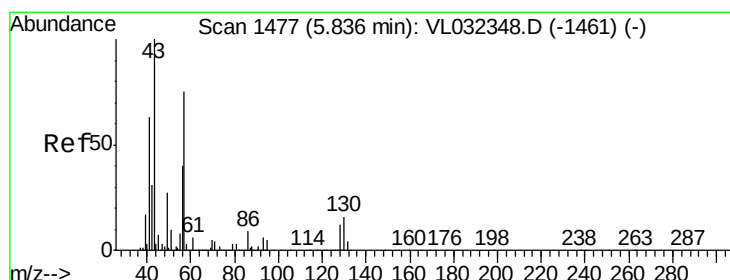
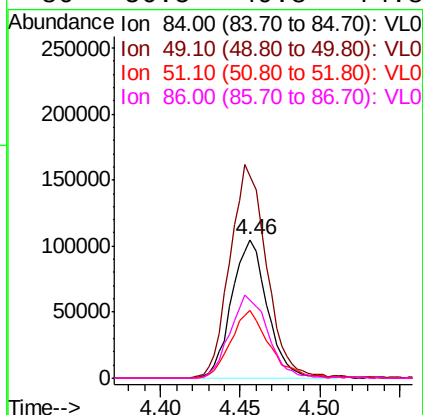
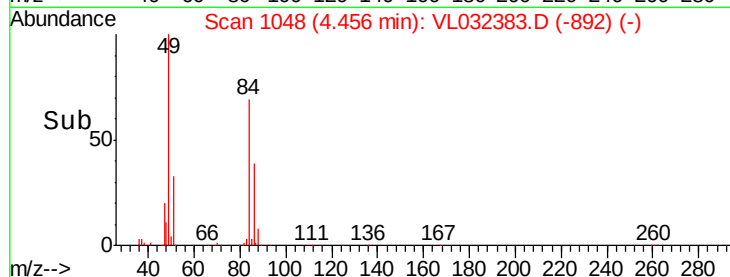
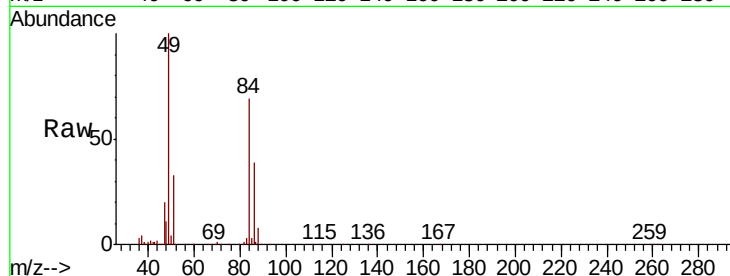
#20
Methvlene Chloride
Concen: 2.43 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Instrument :
MSVOA_L
ClientSampled :
1000DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	145.3	117.3	175.9
51	48.5	36.6	55.0
86	56.5	49.8	74.8

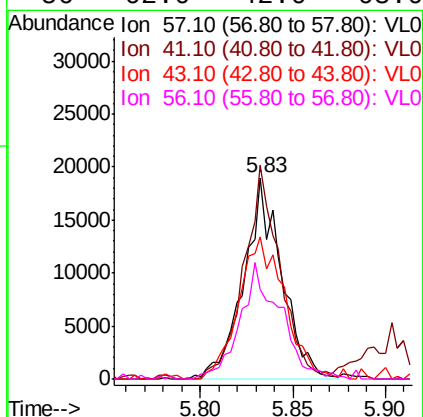
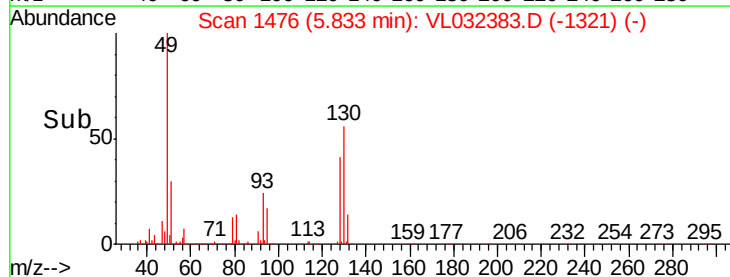
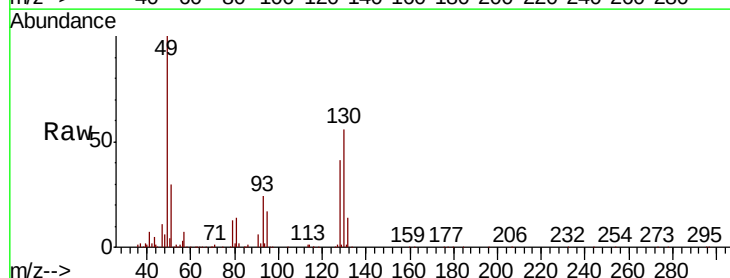
Manual Integrations
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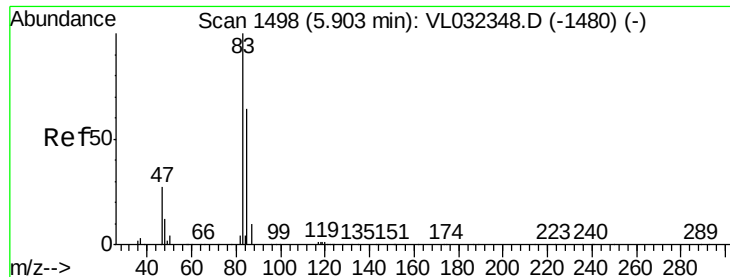
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#26
Hexane
Concen: 0.16 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.1	68.0	102.0
43	87.5	175.3	262.9#
56	62.0	42.0	63.0





#29

Chloroform

Concen: 5.15 ppbv

RT: 5.90 min Scan# 1496

Delta R.T. -0.01 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

Instrument :

MSVOA_L

ClientSampleId :

1000DL

Tot Ion: 83 Resp: 1250992

Ion Ratio Lower Upper

83 100

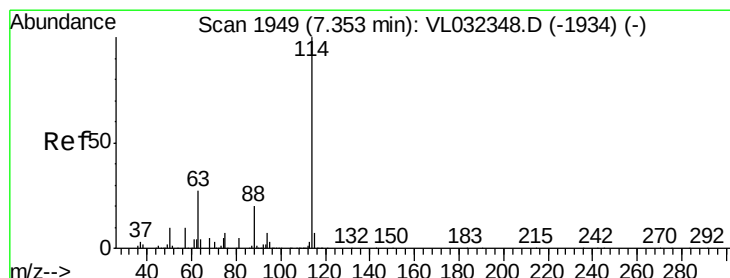
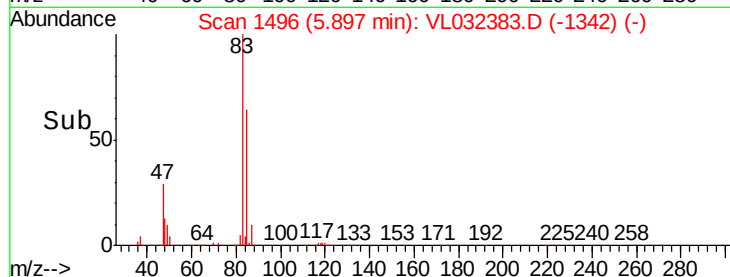
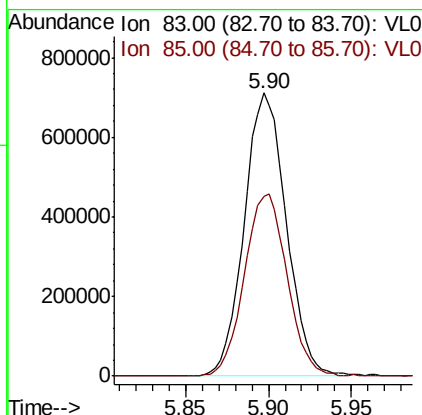
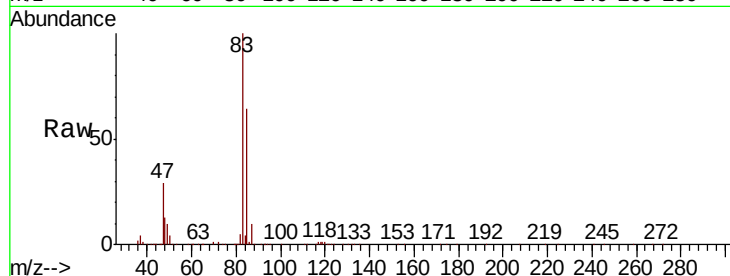
85 63.5 51.6 77.4

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

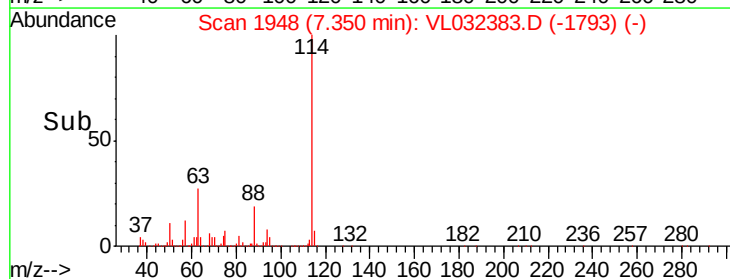
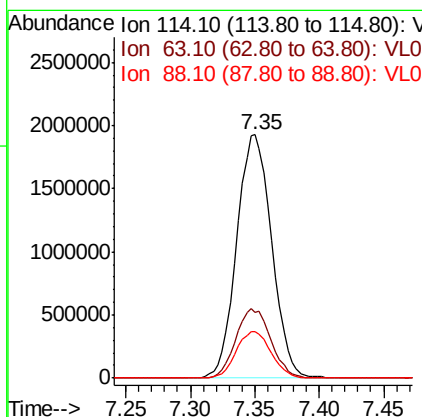
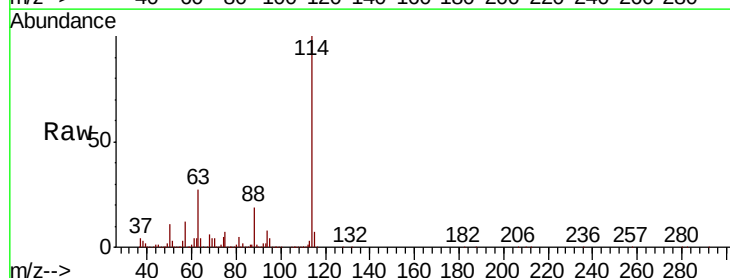
Tgt Ion: 114 Resp: 3637997

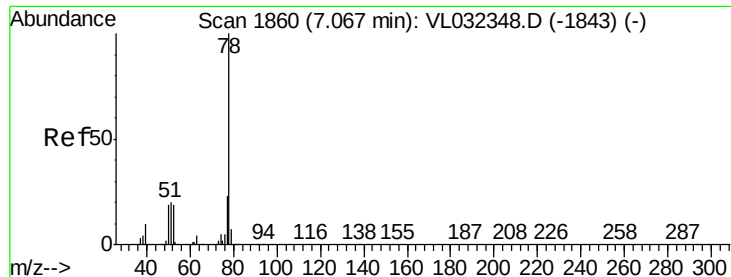
Ion Ratio Lower Upper

114 100

63 28.7 22.0 33.0

88 19.1 15.3 22.9





#36

Benzene

Concen: 3.09 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

Instrument :

MSVOA_L

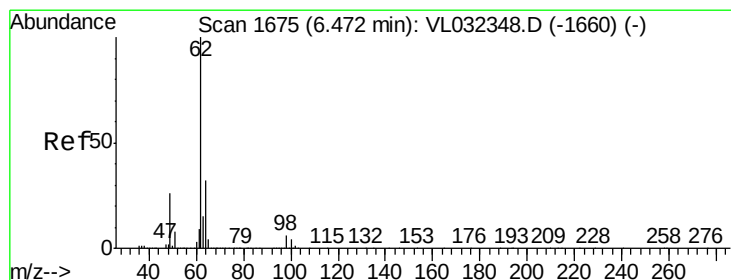
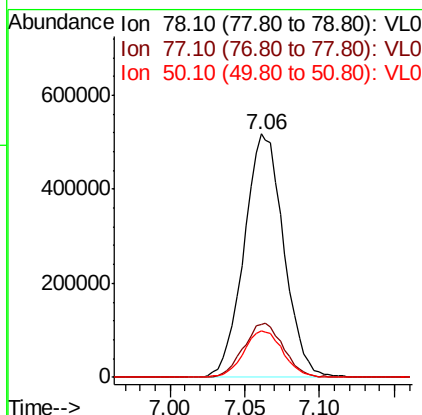
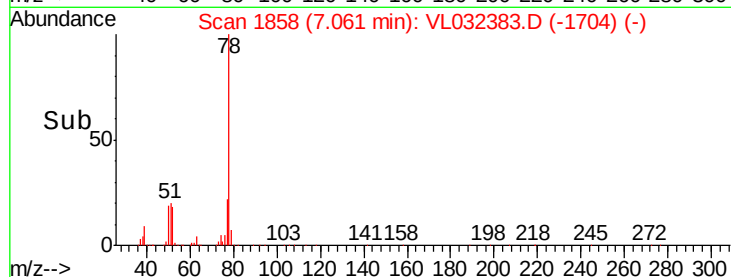
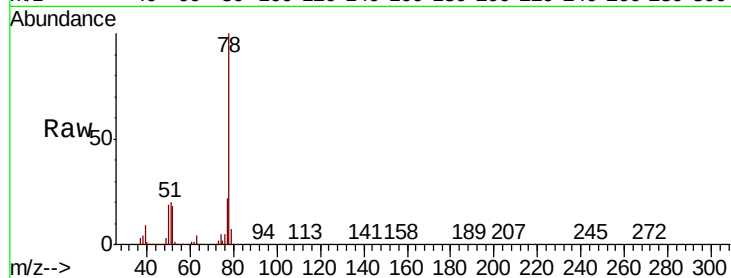
ClientSampleId :

1000DL

Tot Ion:	78	Resp:	953059
Ion Ratio	Lower	Upper	
78	100		
77	21.7	18.0	27.0
50	18.8	15.1	22.7

Manual Integrations
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#37

1,2-Dichloroethane

Concen: 3.10 ppbv

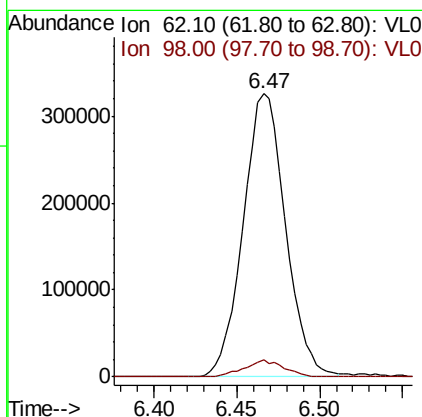
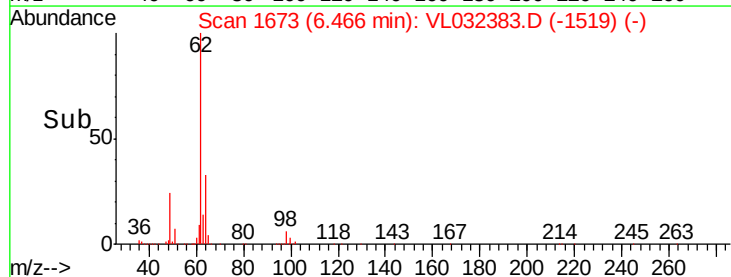
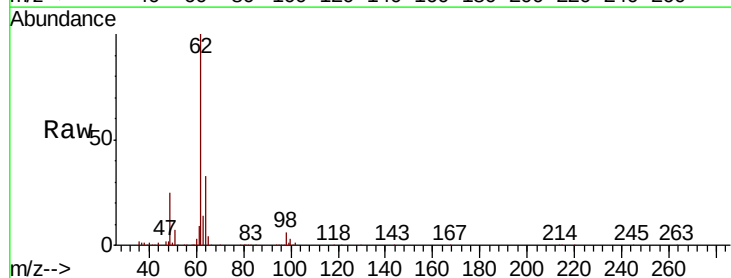
RT: 6.47 min Scan# 1673

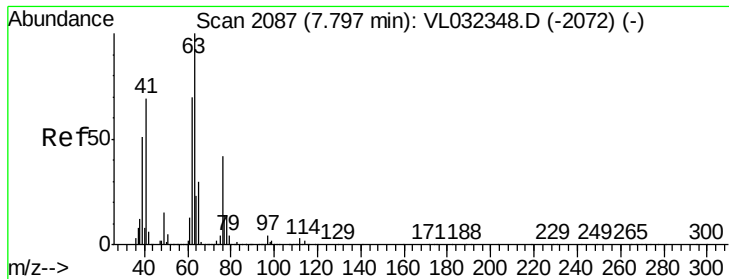
Delta R.T. -0.01 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

Tgt Ion:	62	Resp:	580444
Ion Ratio	Lower	Upper	
62	100		
98	5.6	5.0	7.6





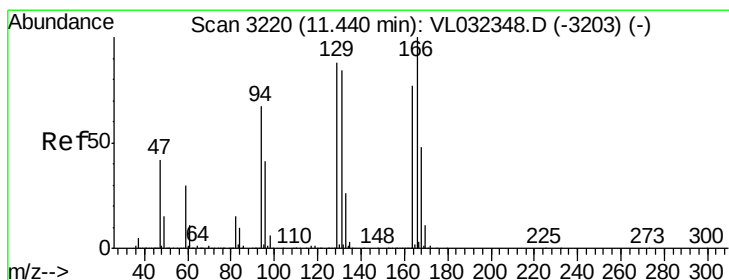
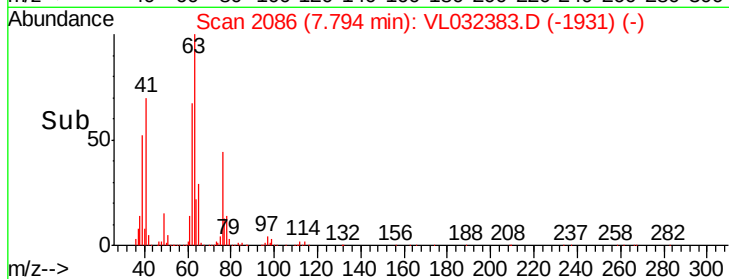
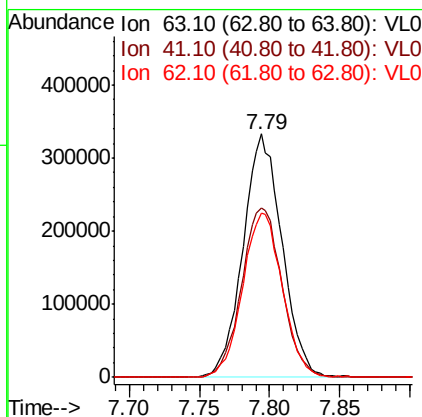
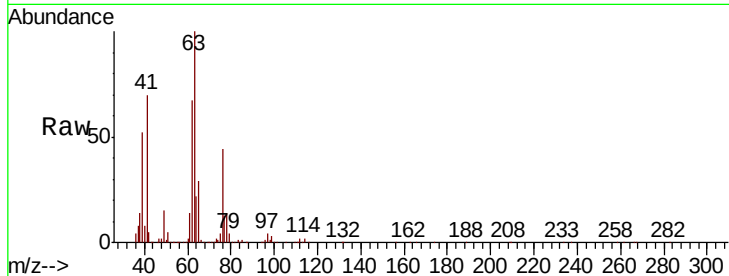
#39
 1,2-Dichloropropane
 Concen: 5.00 ppbv
 RT: 7.79 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL032383.D
 Acq: 16 Aug 2018 19:02

Instrument :
 MSVOA_L
 ClientSampled :
 1000DL

Tot Ion:	63	Resp:	643941
Ion	Ratio	Lower	Upper
63	100		
41	69.6	55.5	83.3
62	67.2	56.3	84.5

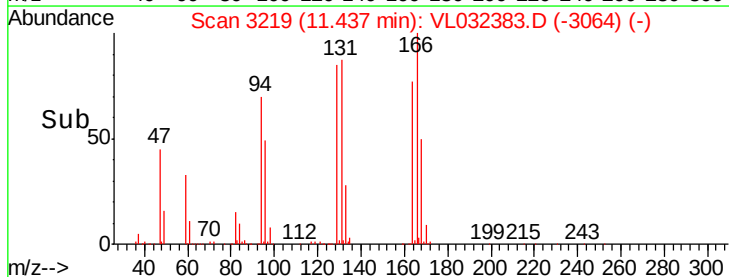
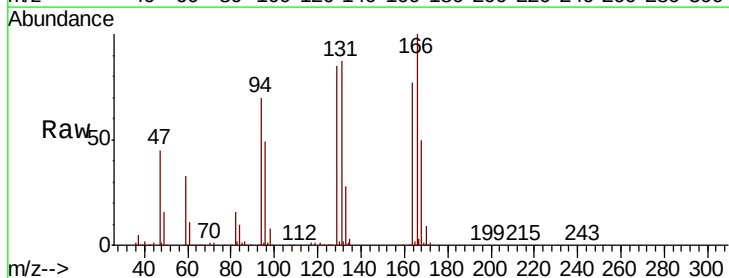
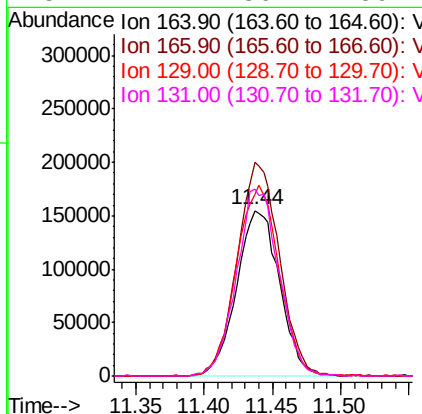
Manual Integrations
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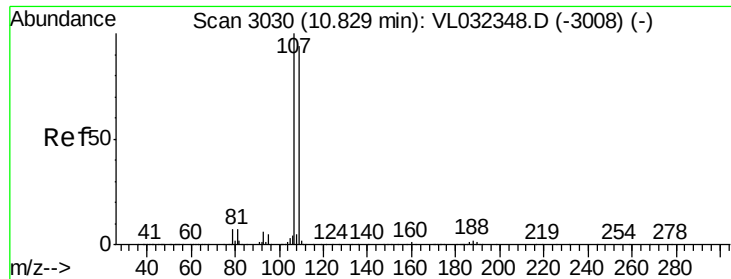
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#52
 Tetrachloroethene
 Concen: 3.72 ppbv
 RT: 11.44 min Scan# 3219
 Delta R.T. -0.00 min
 Lab File: VL032383.D
 Acq: 16 Aug 2018 19:02

Tgt Ion:	164	Resp:	337991
Ion	Ratio	Lower	Upper
164	100		
166	128.8	103.5	155.3
129	109.8	90.9	136.3
131	112.4	86.7	130.1





#54

1,2-Dibromoethane

Concen: 5.70 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

Instrument :

MSVOA_L

ClientSampled :

1000DL

Tot Ion:107 Resp: 1038818

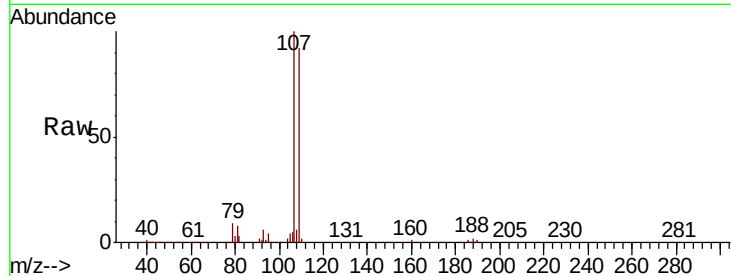
Ion Ratio Lower Upper

107 100

109 92.4 74.9 112.3

Manual Integrations
APPROVED

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.83

500000

400000

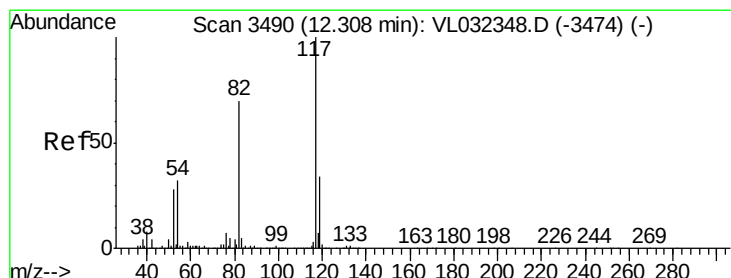
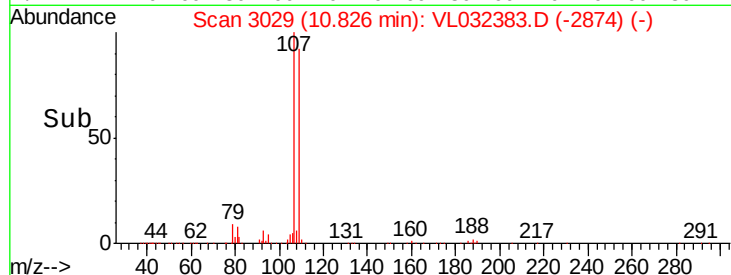
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.30 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032383.D

Acq: 16 Aug 2018 19:02

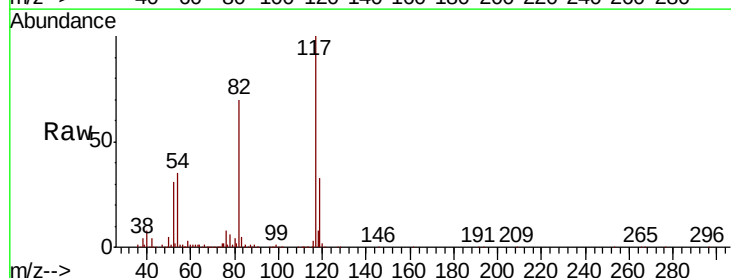
Tgt Ion:117 Resp: 3532933

Ion Ratio Lower Upper

117 100

82 69.6 55.1 82.7

119 32.3 46.0 69.0#



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

12.30

2000000

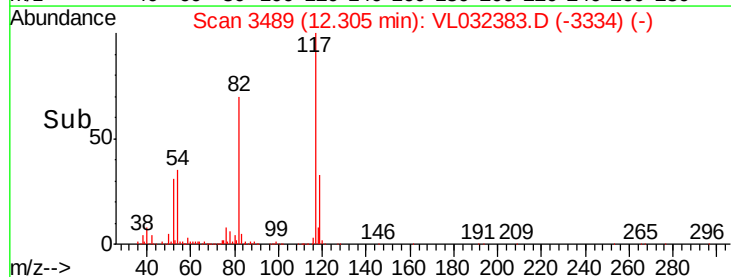
1500000

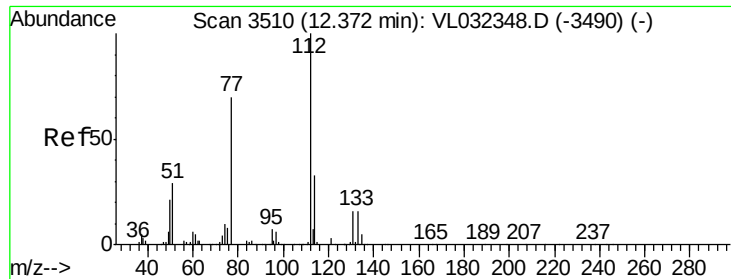
1000000

500000

0

Time-->





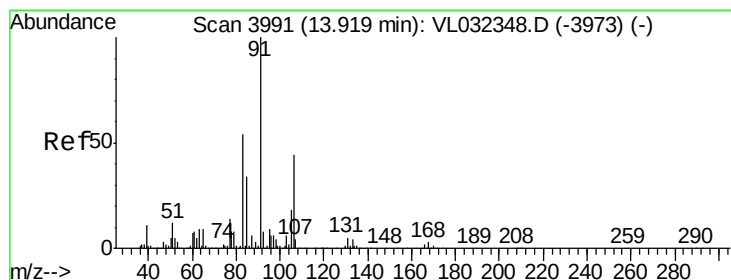
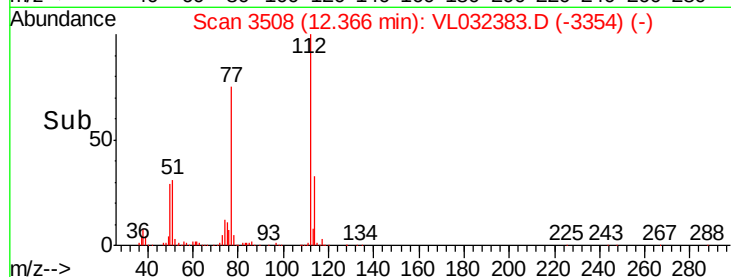
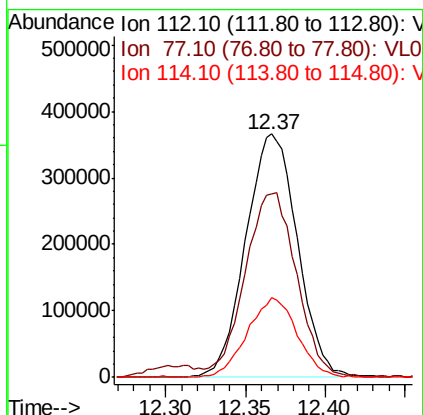
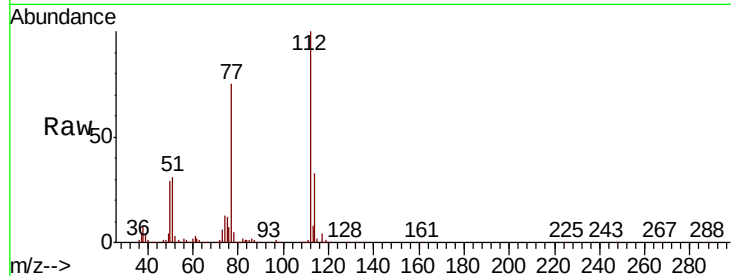
#57
Chlorobenzene
Concen: 3.04 ppbv
RT: 12.37 min Scan# 3508
Delta R.T. -0.01 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Instrument :
MSVOA_L
ClientSampleID :
1000DL

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.6	56.6	84.8
114	33.0	29.4	36.0

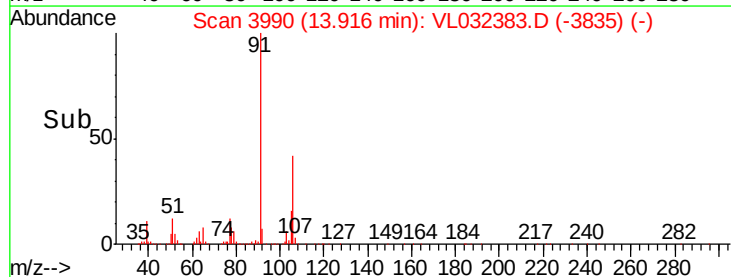
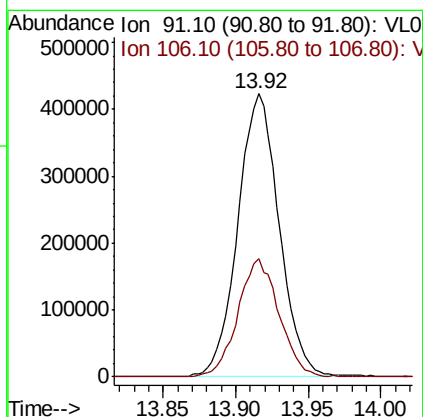
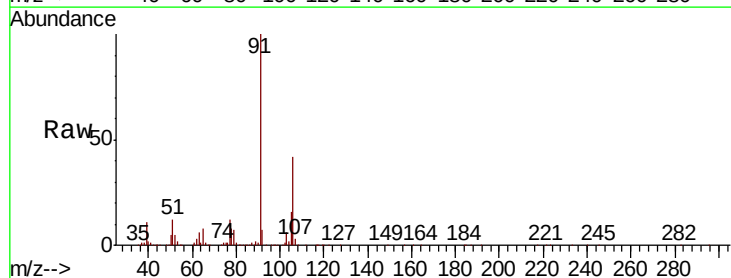
Manual Integrations
APPROVED

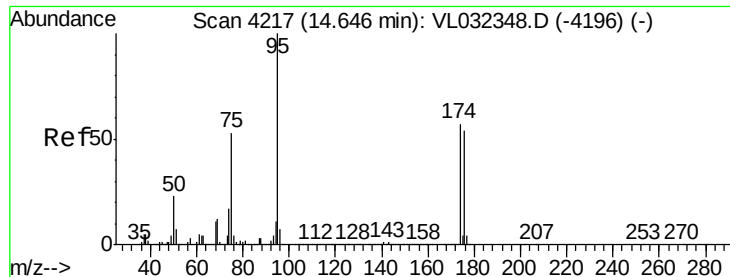
MMDadoda
8/20/2018 3:11:49 PM



#60
o-Xylene
Concen: 2.34 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032383.D
Acq: 16 Aug 2018 19:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.1	22.3	66.8





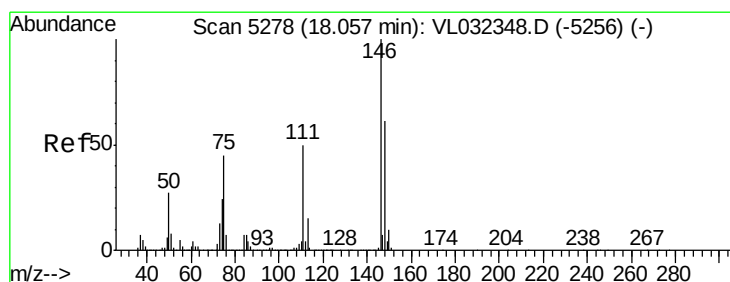
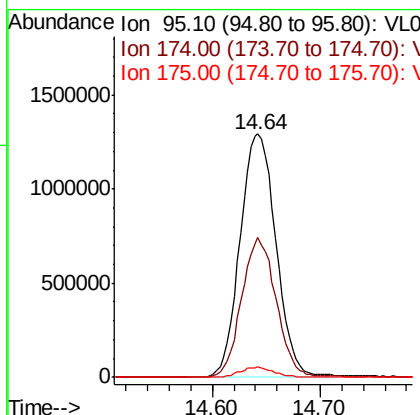
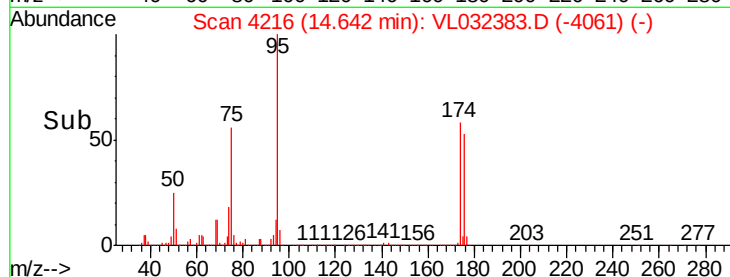
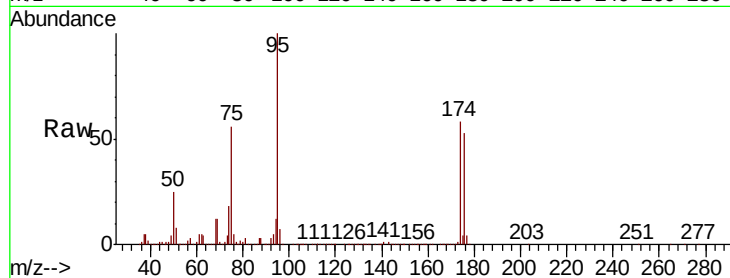
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.14 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.00 min
 Lab File: VL032383.D
 Acq: 16 Aug 2018 19:02

Instrument :
 MSVOA_L
 ClientSampleID :
 1000DL

Tot Ion: 95 Resp: 3003464
 Ion Ratio Lower Upper
 95 100
 174 55.9 46.2 69.4
 175 4.0 3.4 5.0

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 3:11:49 PM



#77
 1,2-Dichlorobenzene
 Concen: 4.03 ppbv
 RT: 18.05 min Scan# 5277
 Delta R.T. -0.00 min
 Lab File: VL032383.D
 Acq: 16 Aug 2018 19:02

Tgt Ion: 146 Resp: 937821
 Ion Ratio Lower Upper
 146 100
 111 51.1 25.2 75.6
 148 63.9 31.8 95.4

