

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032798.D
 Acq On : 21 Nov 2018 3:54
 Operator : SY/AP
 Sample : J5998-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-103

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:58 AM

Quant Time: Nov 21 06:21:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1288685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3342890	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3099497	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2273331	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	84665	0.457	ppbv	96
3) Chlorodifluoromethane	3.02	51	39688m	0.388	ppbv	
4) Chloromethane	3.18	50	24409	0.431	ppbv	97
9) Propene	3.06	41	32902m	0.805	ppbv	
10) Heptane	8.25	43	24578	0.157	ppbv	94
11) Trichlorofluoromethane	4.01	101	80608	0.462	ppbv	97
13) Ethanol	3.66	45	1250547	93.382	ppbv	100
15) Acetone	3.91	43	277748	2.360	ppbv	98
19) Isopropyl Alcohol	4.04	45	196624	2.508	ppbv #	96
20) Methylene Chloride	4.42	84	47563	0.781	ppbv	99
26) Hexane	5.79	57	120643	0.988	ppbv #	48
34) 2-Butanone	5.35	43	37975m	0.219	ppbv	
35) Carbon Tetrachloride	7.15	117	20055m	0.075	ppbv	
36) Benzene	7.01	78	57035	0.214	ppbv #	87
53) Toluene	9.95	91	3830190	13.792	ppbv	100
58) Ethyl Benzene	12.88	91	73666	0.197	ppbv	97
59) m/p-Xylene	13.14	91	189533m	0.571	ppbv	
60) o-Xylene	13.86	91	62781	0.188	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	64620m	0.169	ppbv	

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

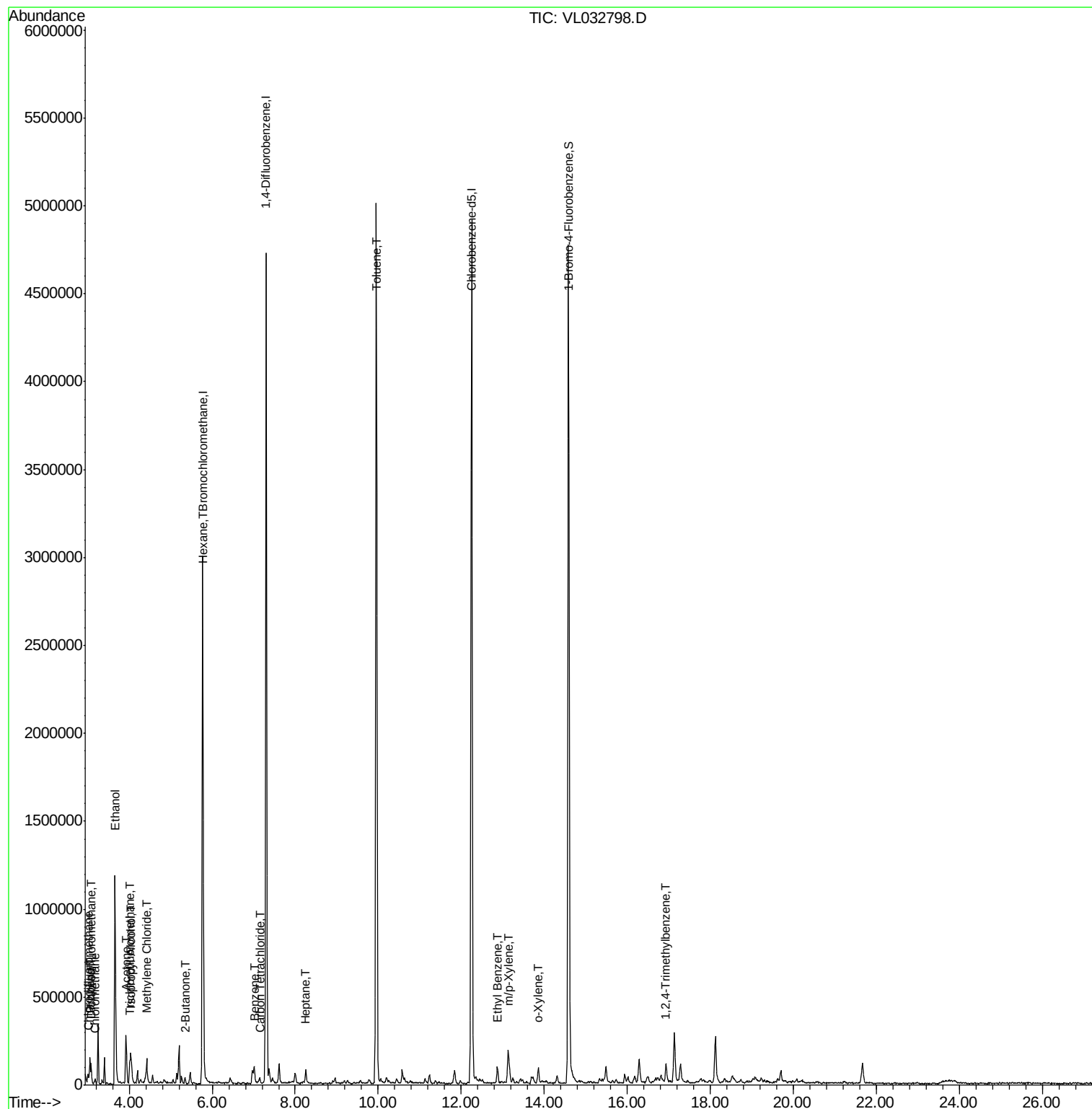
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032798.D
Acq On : 21 Nov 2018 3:54
Operator : SY/AP
Sample : J5998-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

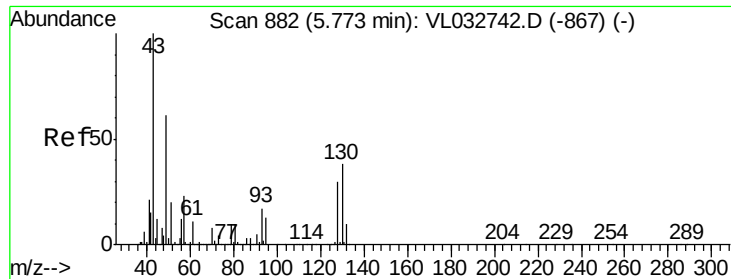
Instrument :
MSVOA_L
ClientSampleId :
IA-103

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Quant Time: Nov 21 06:21:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

Instrument :

MSVOA_L

ClientSampleId :

IA-103

Tot Ion: 49 Resp: 1288685

Ion Ratio Lower Upper

49 100

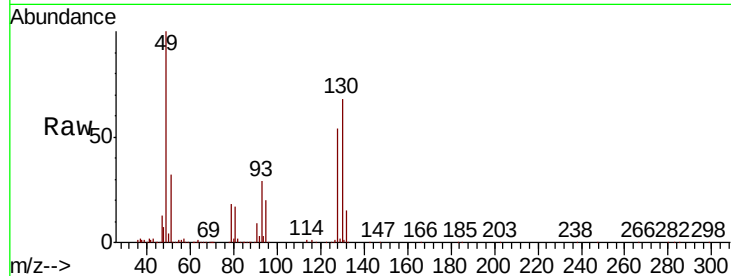
128 52.9 24.9 74.6

130 68.2 31.4 94.2

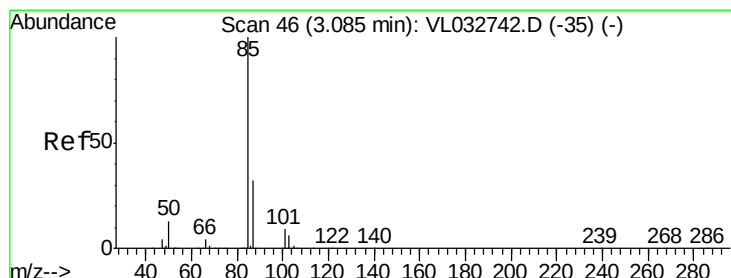
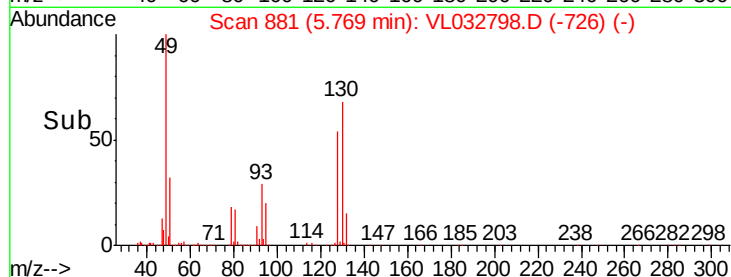
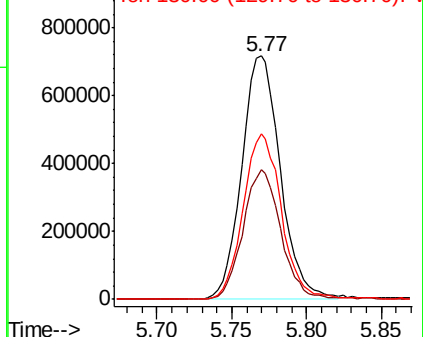
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.457 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032798.D

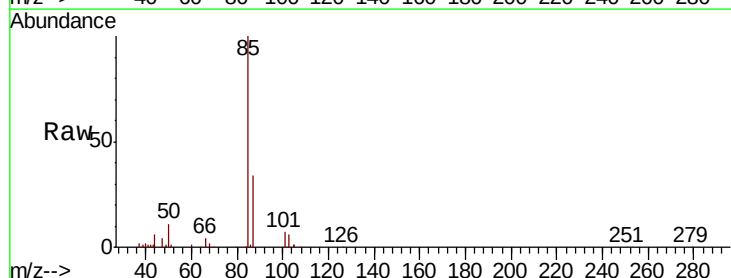
Acq: 21 Nov 2018 3:54

Tgt Ion: 85 Resp: 84665

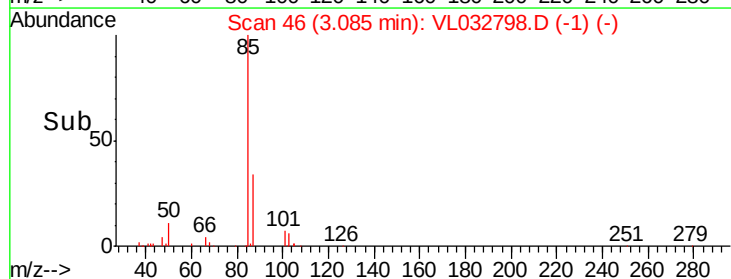
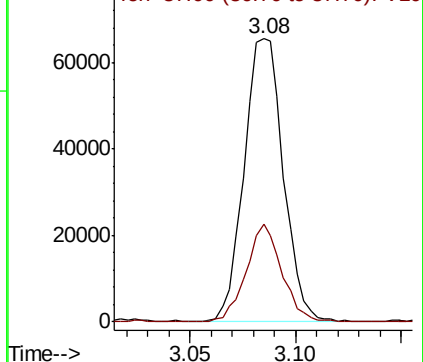
Ion Ratio Lower Upper

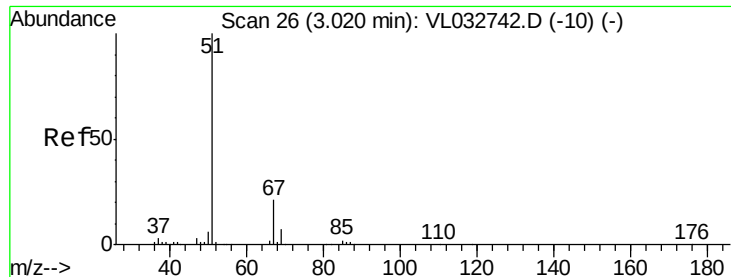
85 100

87 34.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

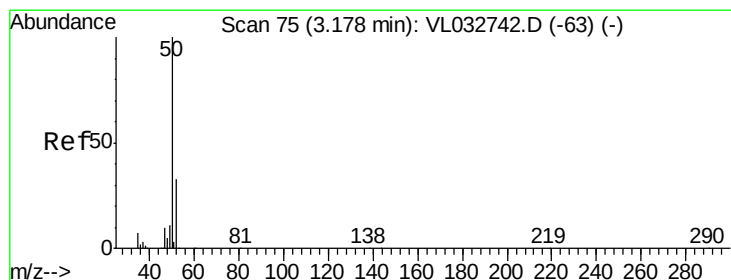
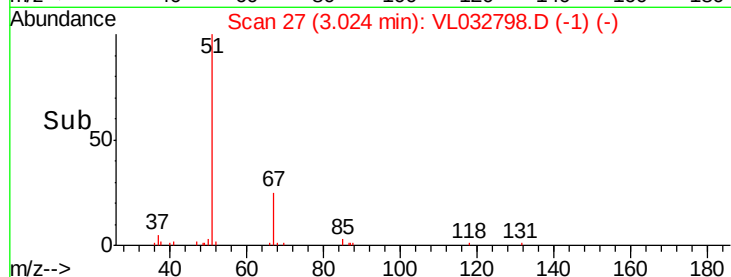
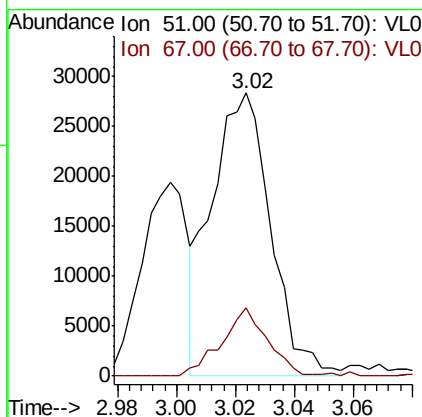
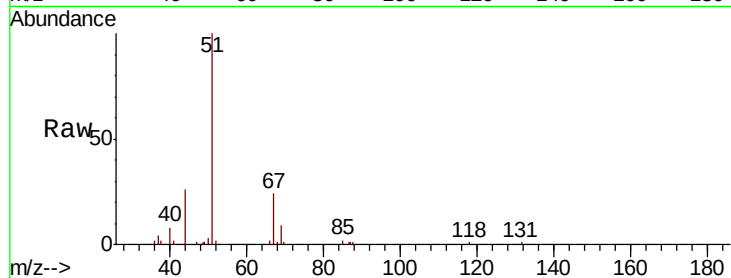
Chlorodifluoromethane
Concen: 0.388 ppbv
RT: 3.02 min Scan# 27
Delta R.T. 0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Instrument :
MSVOA_L
ClientSampleId :
IA-103

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.2	16.1	24.1

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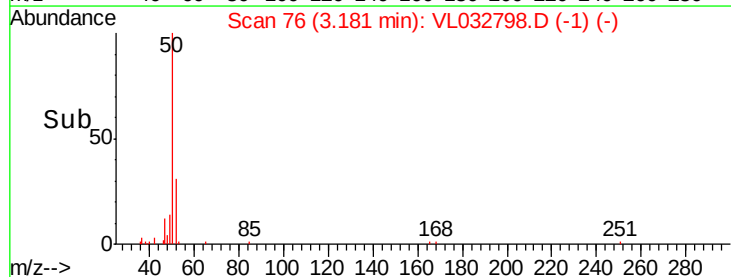
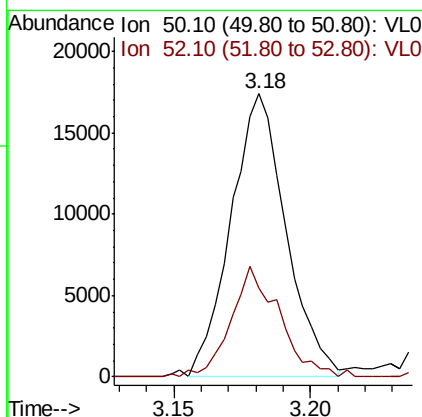
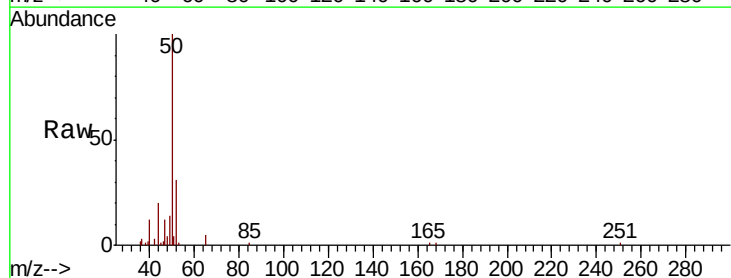
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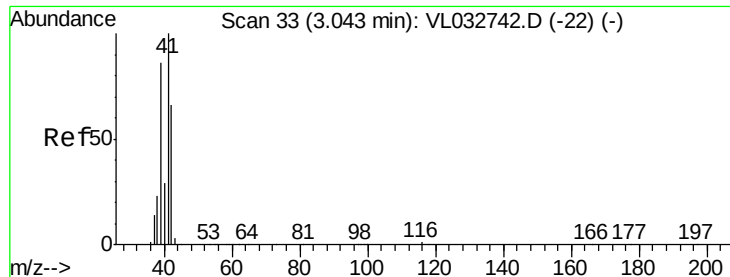


#4

Chloromethane
Concen: 0.431 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.4	26.6	40.0





#9

Propene

Concen: 0.805 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

Instrument :

MSVOA_L

ClientSampleId :

IA-103

Tot Ion: 41 Resp: 32902

Ion Ratio Lower Upper

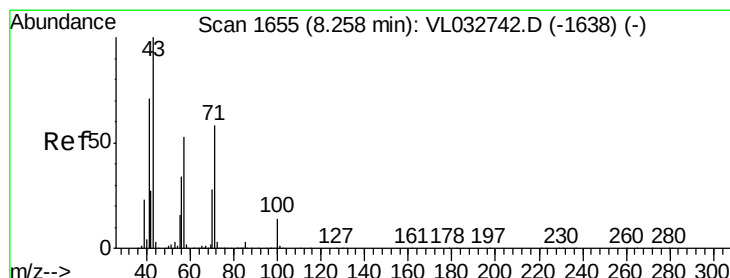
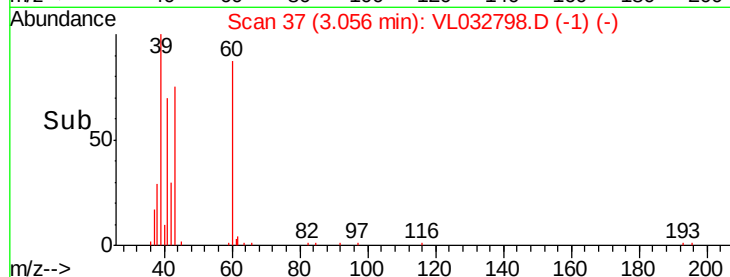
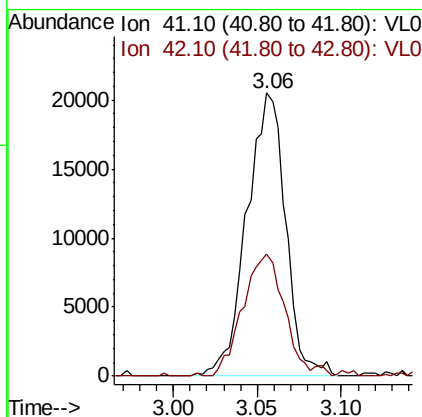
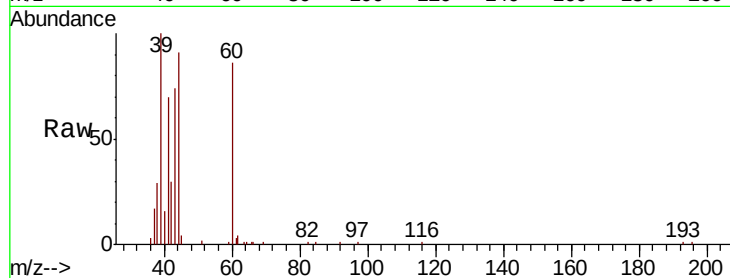
41 100

42 175.4 55.0 82.6#

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#10

Heptane

Concen: 0.157 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032798.D

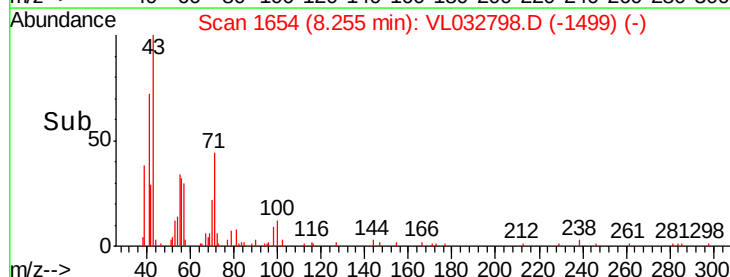
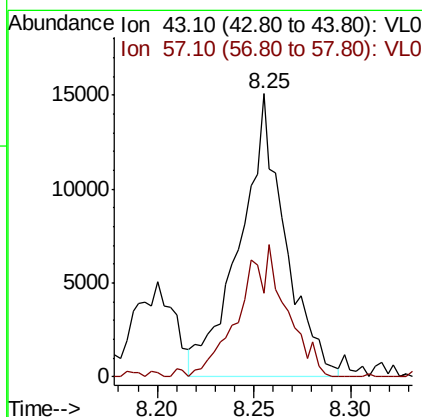
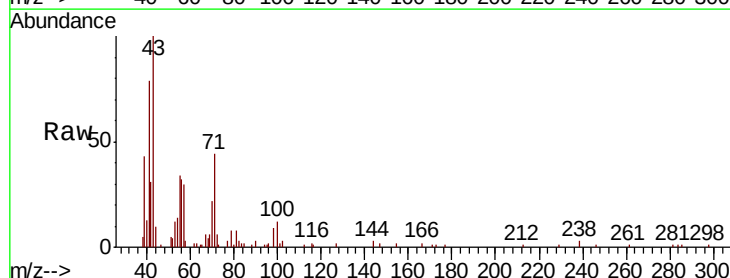
Acq: 21 Nov 2018 3:54

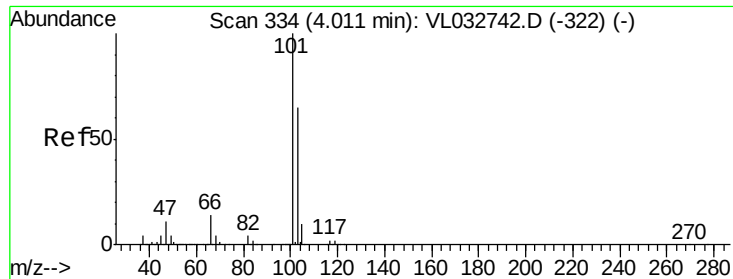
Tgt Ion: 43 Resp: 24578

Ion Ratio Lower Upper

43 100

57 48.0 41.8 62.8





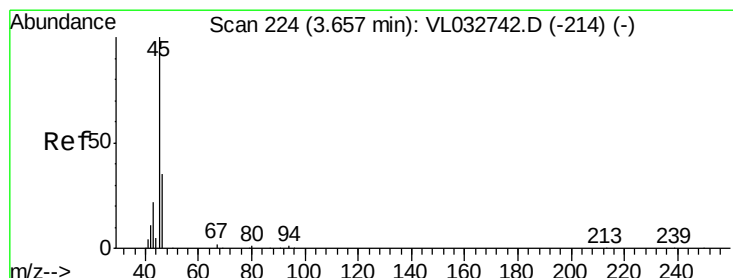
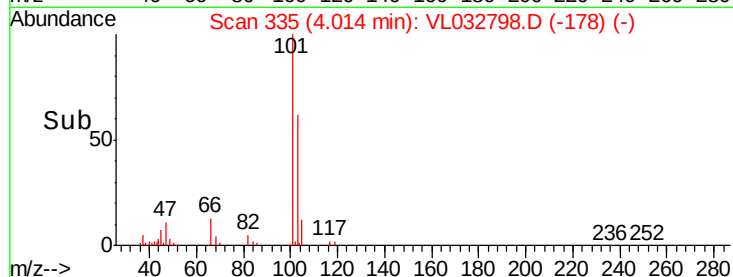
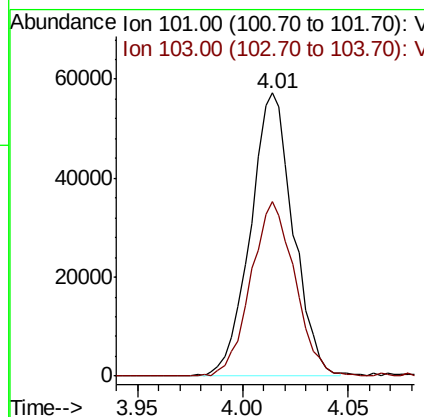
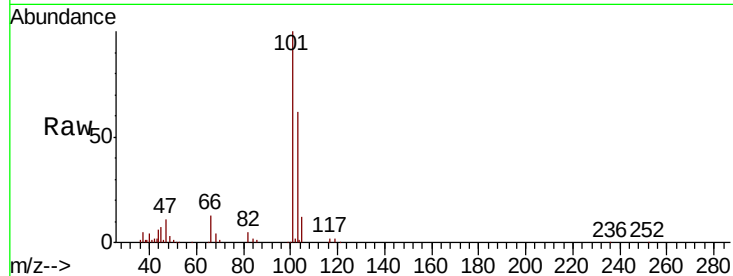
#11
 Trichlorofluoromethane
 Concen: 0.462 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032798.D
 Acq: 21 Nov 2018 3:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-103

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.8	51.6	77.4

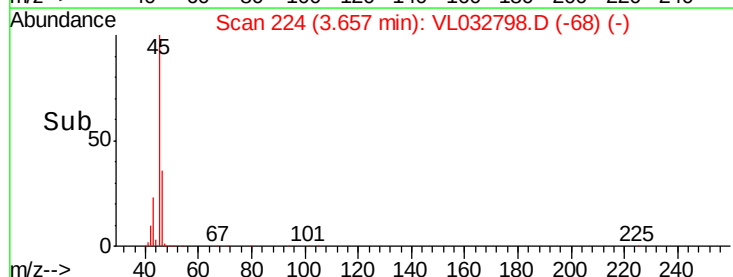
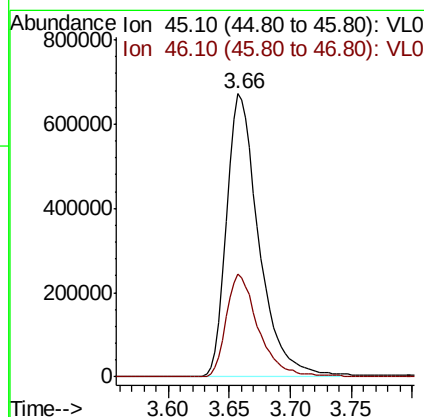
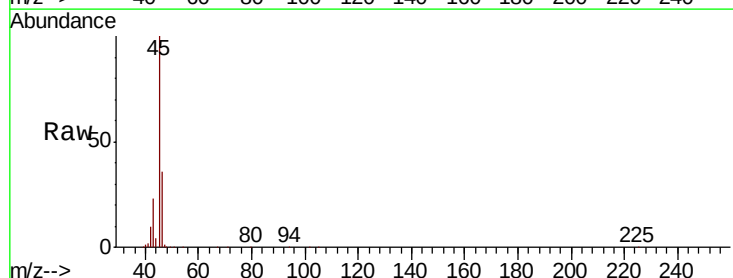
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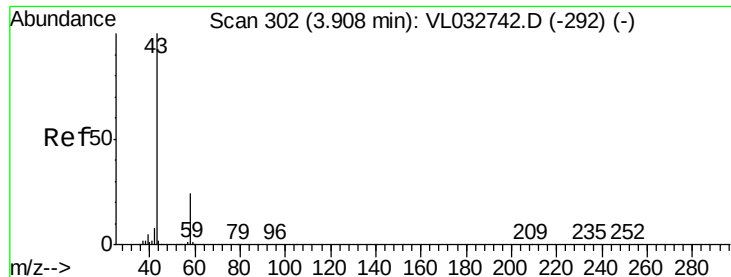
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#13
 Ethanol
 Concen: 93.382 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. -0.00 min
 Lab File: VL032798.D
 Acq: 21 Nov 2018 3:54

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.1	14.5	57.9





#15

Acetone

Concen: 2.360 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

Instrument :

MSVOA_L

ClientSampleId :

IA-103

Tot Ion: 43 Resp: 277748

Ion Ratio Lower Upper

43 100

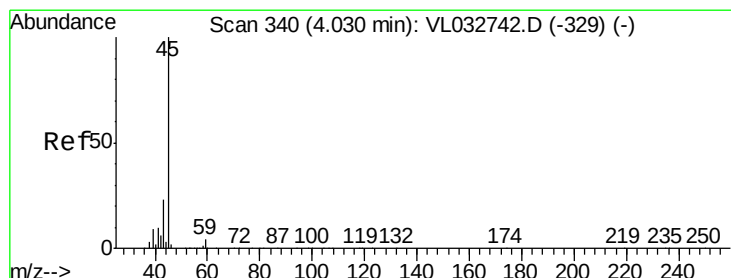
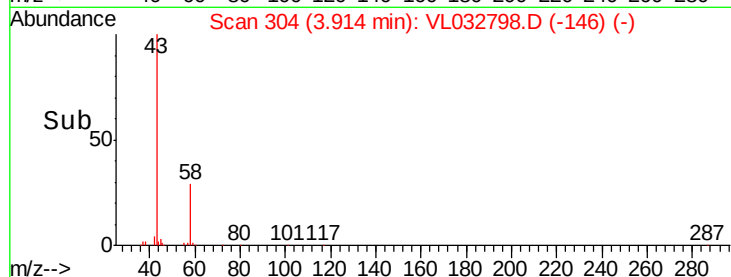
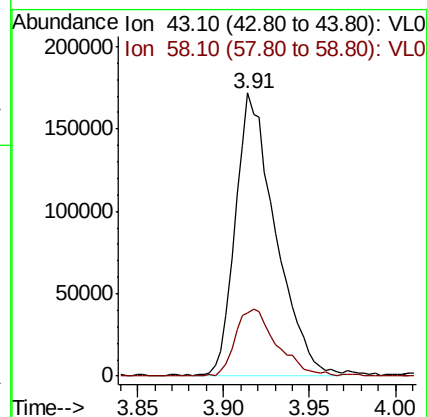
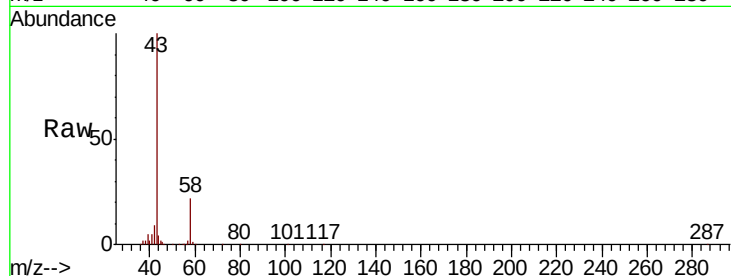
58 25.2 21.1 31.7

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 2.508 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL032798.D

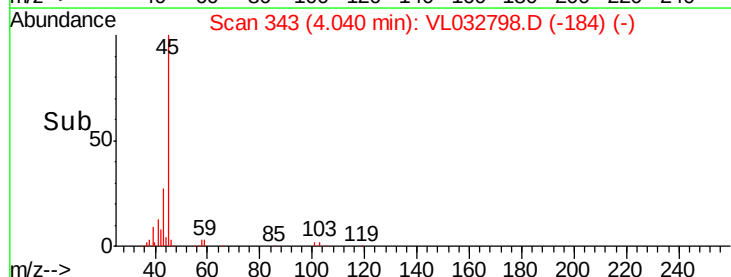
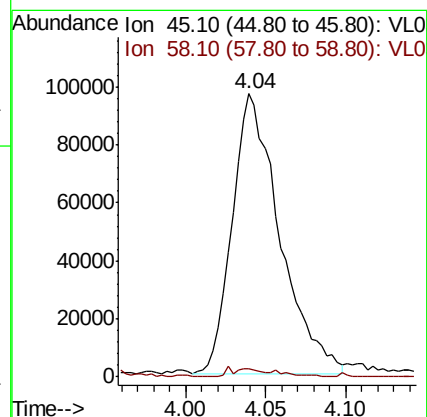
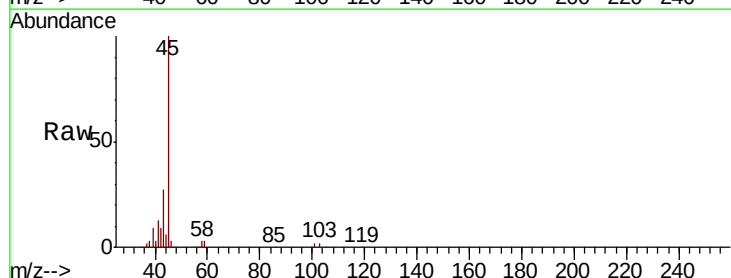
Acq: 21 Nov 2018 3:54

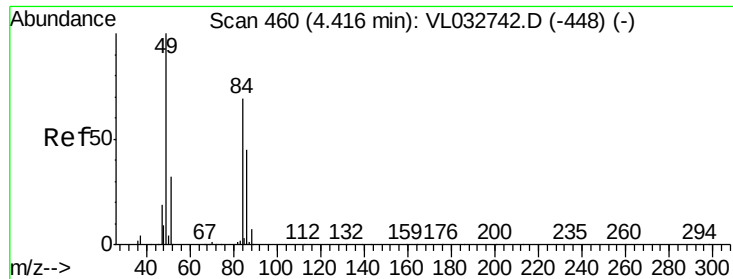
Tgt Ion: 45 Resp: 196624

Ion Ratio Lower Upper

45 100

58 3.0 1.4 2.0#





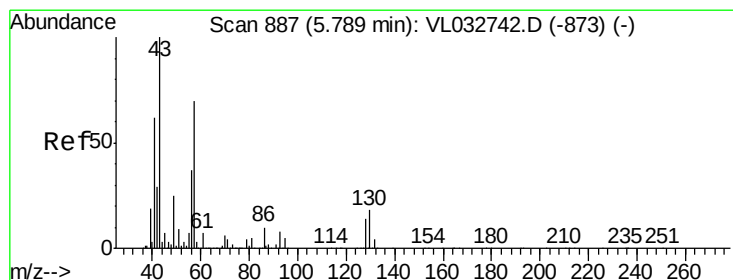
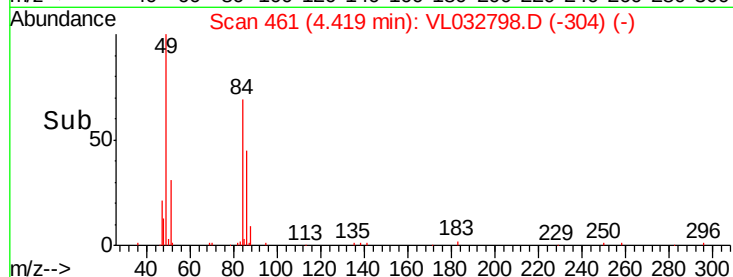
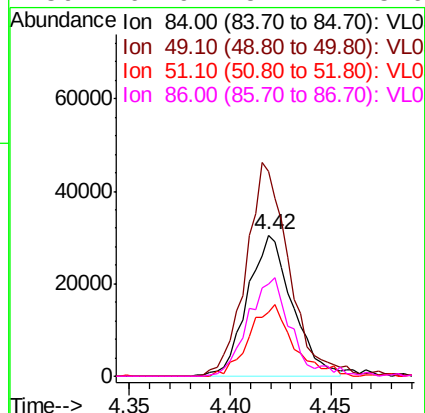
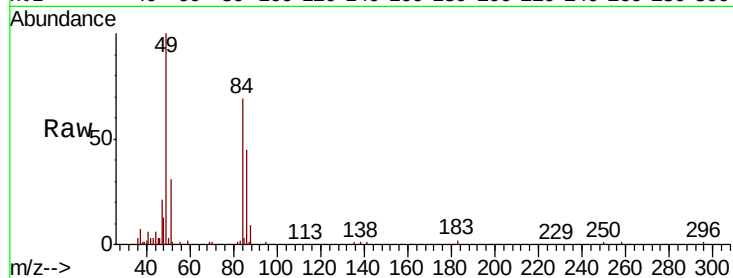
#20
Methylene Chloride
Concen: 0.781 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Instrument :
MSVOA_L
ClientSampled :
IA-103

Tot Ion	Ratio	Lower	Upper
84	100		
49	145.1	115.8	173.6
51	45.0	36.9	55.3
86	64.9	52.4	78.6

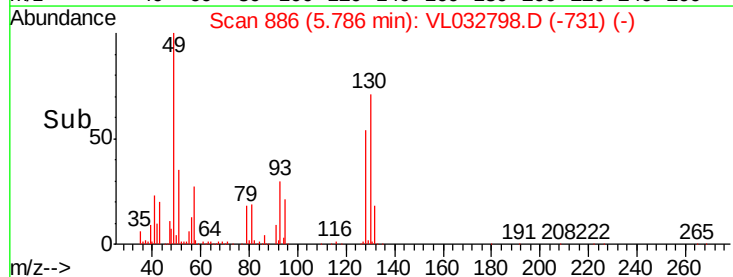
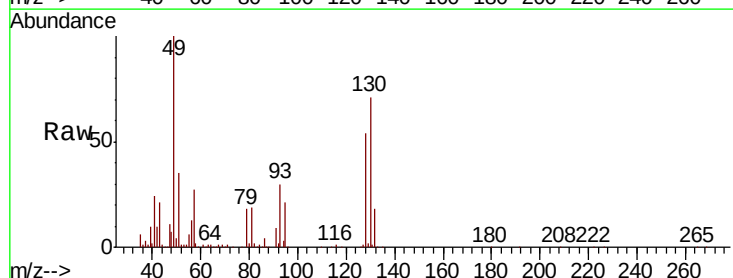
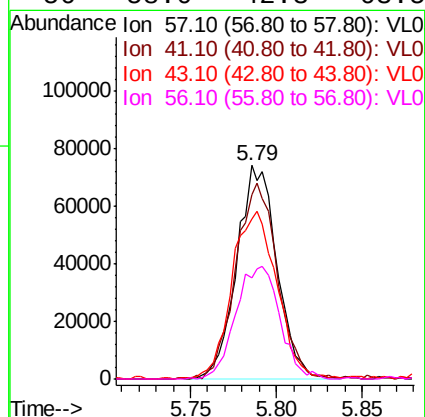
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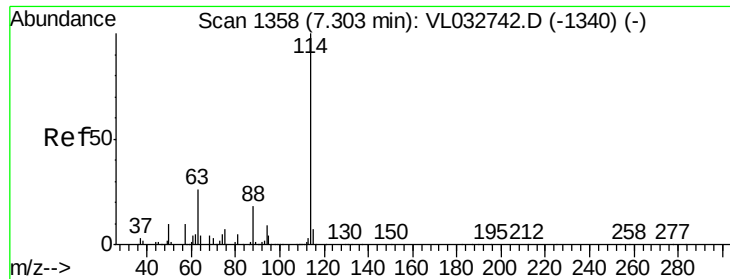
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#26
Hexane
Concen: 0.988 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.0	70.3	105.5
43	89.0	174.0	261.0#
56	58.0	42.3	63.5





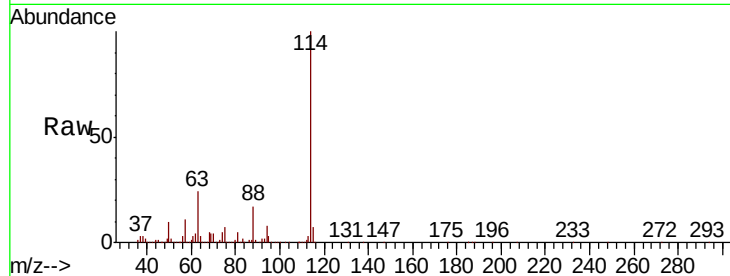
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032798.D
 Acq: 21 Nov 2018 3:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-103

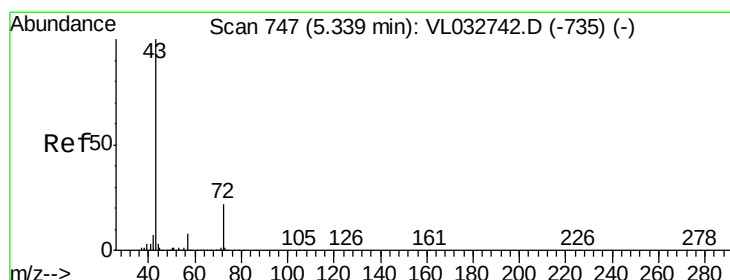
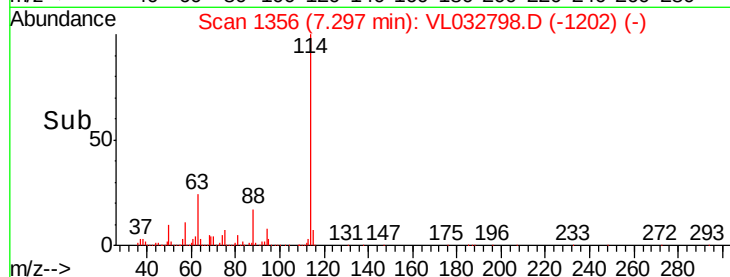
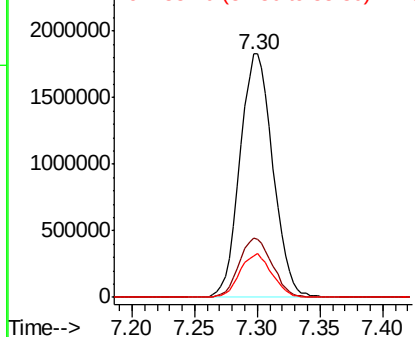
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.9	31.3
88	17.5	14.4	21.6

Manual Integrations
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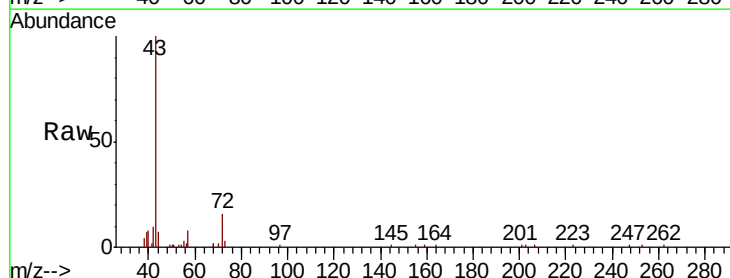


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

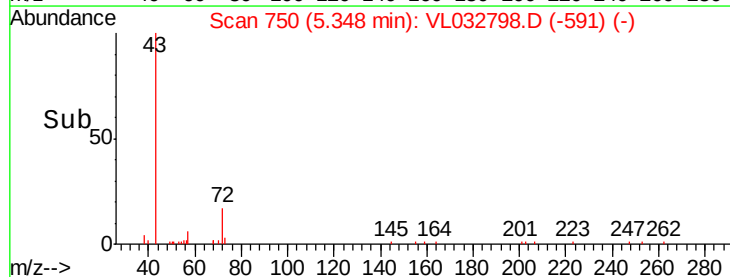
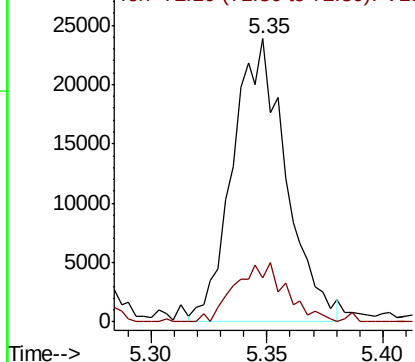


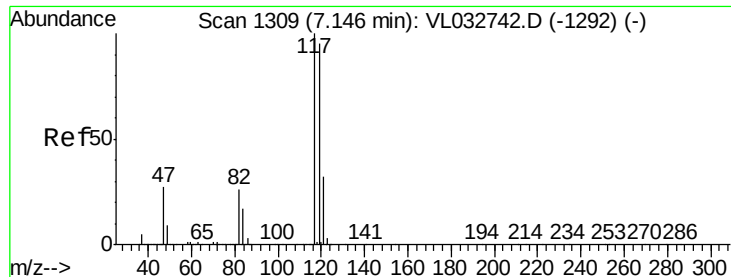
#34
 2-Butanone
 Concen: 0.219 ppbv m
 RT: 5.35 min Scan# 750
 Delta R.T. 0.01 min
 Lab File: VL032798.D
 Acq: 21 Nov 2018 3:54

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.4	27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.15 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

Instrument :

MSVOA_L

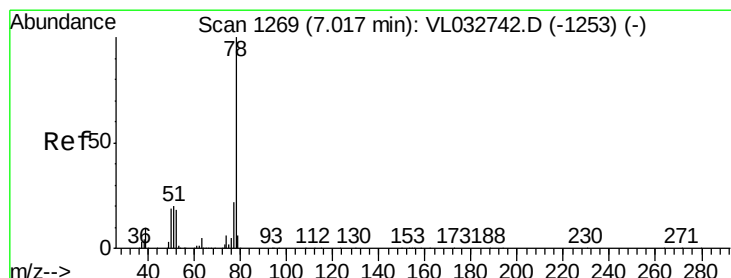
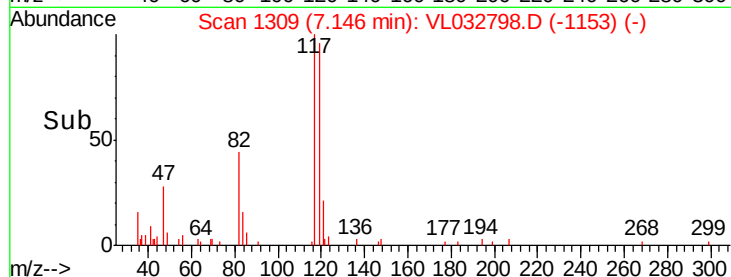
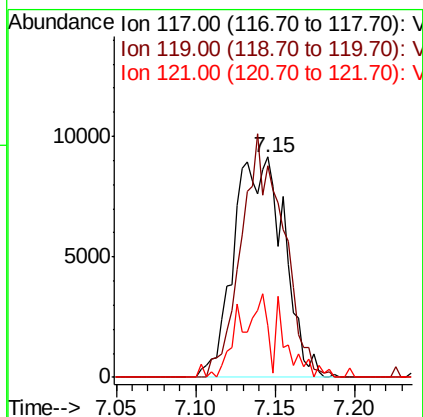
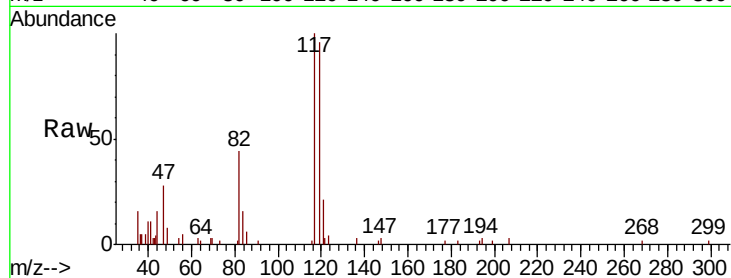
ClientSampleId :

IA-103

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.1	114.1
121	20.6	25.4	38.0#

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#36

Benzene

Concen: 0.214 ppbv

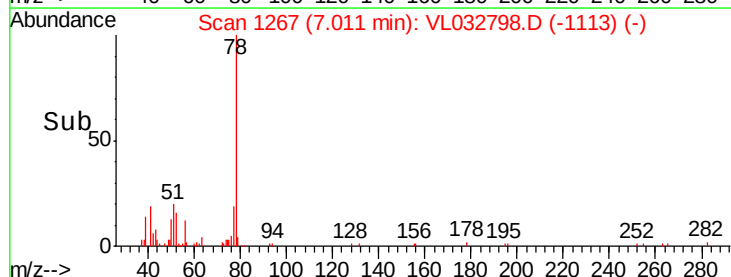
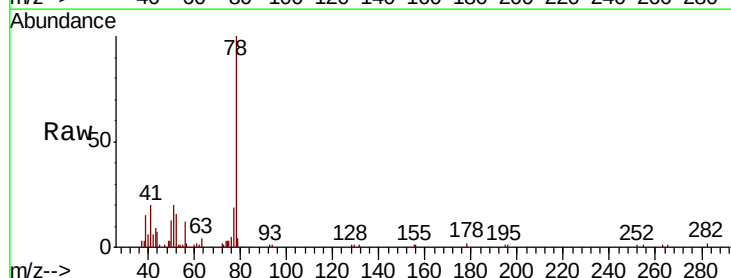
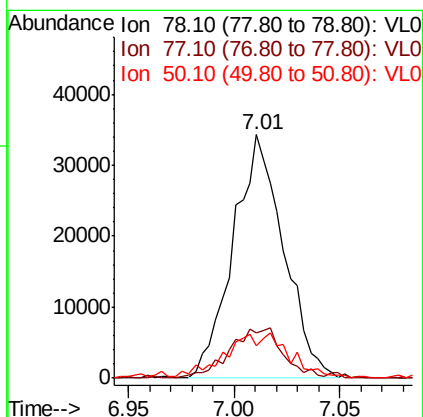
RT: 7.01 min Scan# 1267

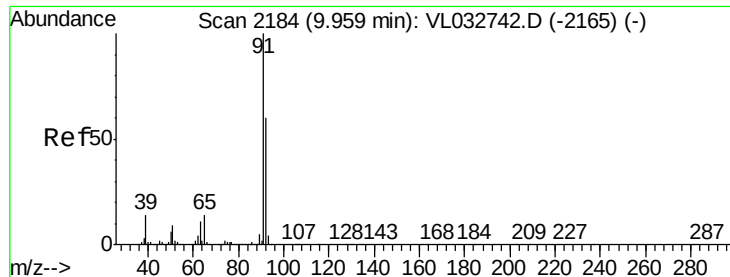
Delta R.T. -0.01 min

Lab File: VL032798.D

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Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.7	17.8	26.8#
50	12.0	15.4	23.0#





#53

Toluene

Concen: 13.792 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

Instrument :

MSVOA_L

ClientSampleId :

IA-103

Tot Ion: 91 Resp: 3830190

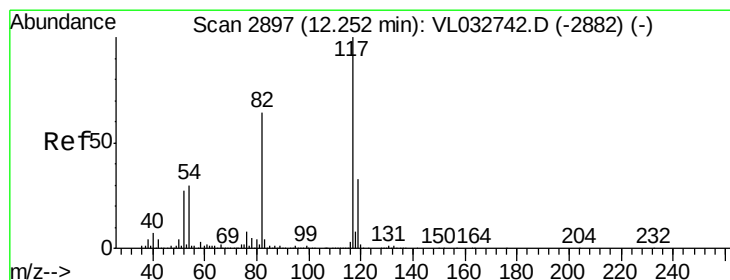
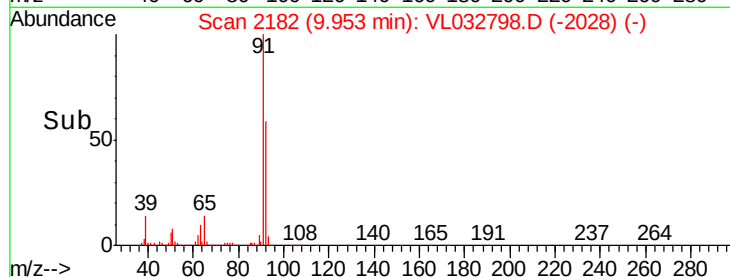
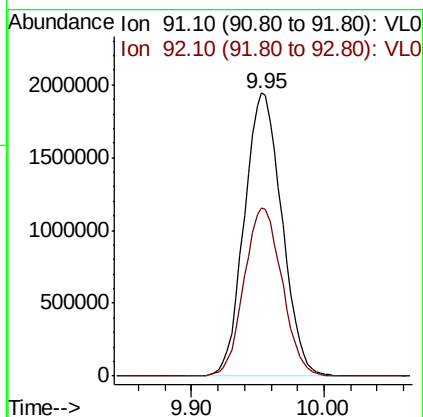
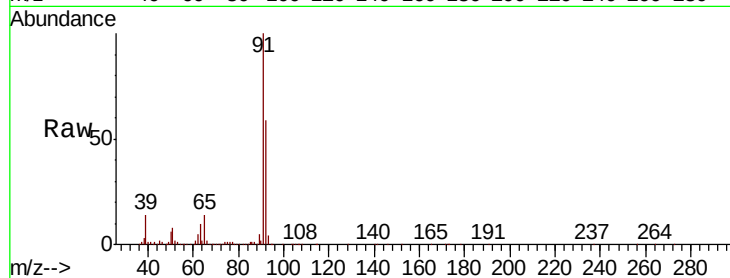
Ion Ratio Lower Upper

91 100

92 60.0 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032798.D

Acq: 21 Nov 2018 3:54

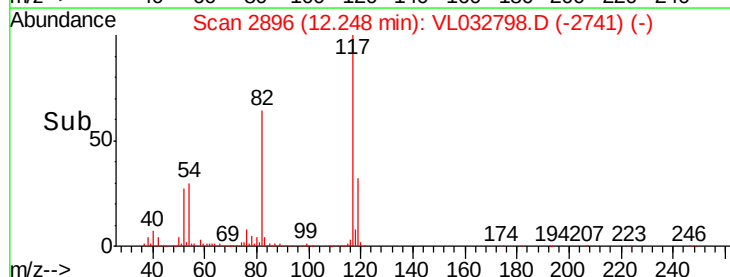
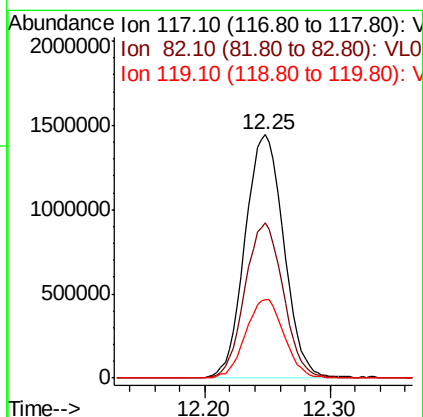
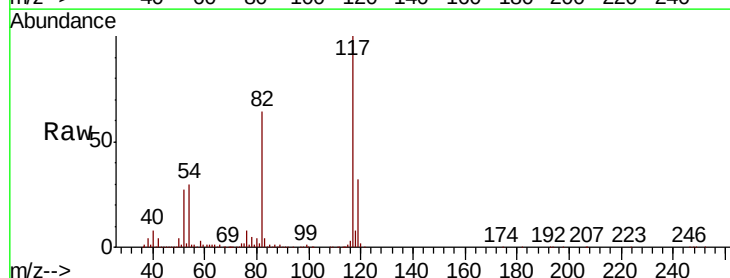
Tgt Ion: 117 Resp: 3099497

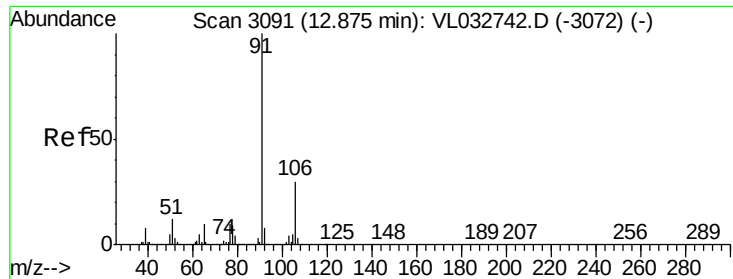
Ion Ratio Lower Upper

117 100

82 63.7 51.0 76.6

119 32.3 28.0 42.0





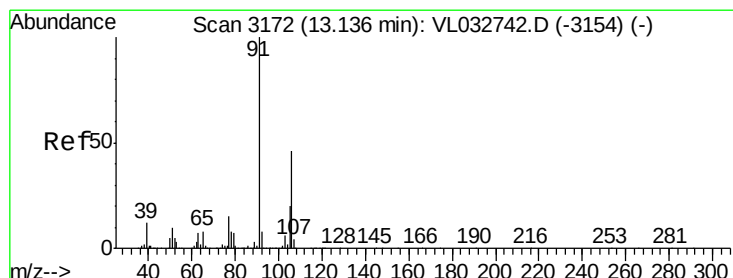
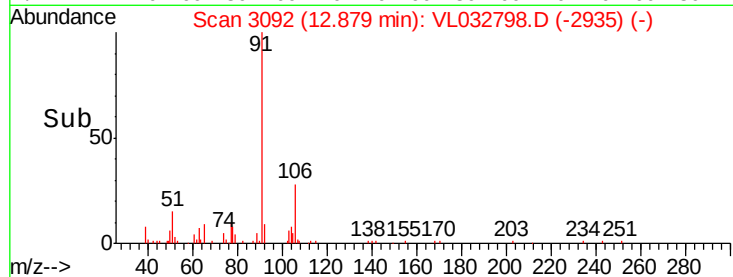
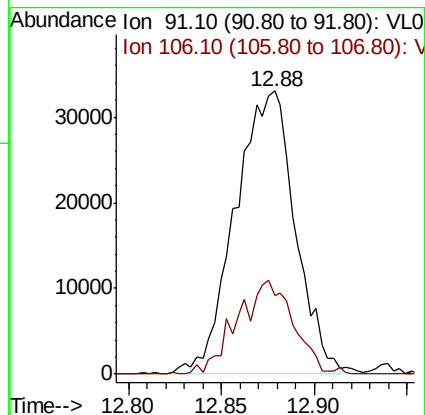
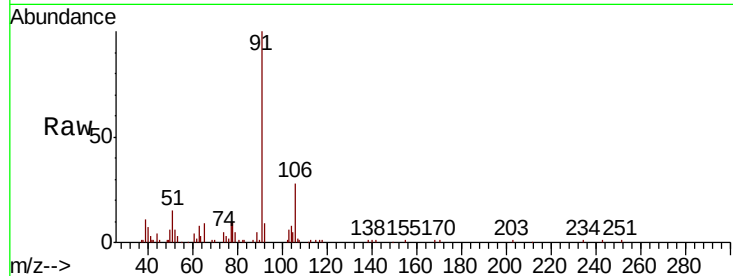
#58
Ethyl Benzene
Concen: 0.197 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. 0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Instrument :
MSVOA_L
ClientSampleId :
IA-103

Tot Ion: 91 Resp: 73666
Ion Ratio Lower Upper
91 100
106 27.7 23.6 35.4

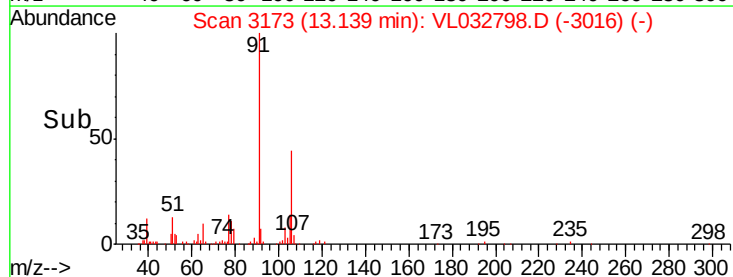
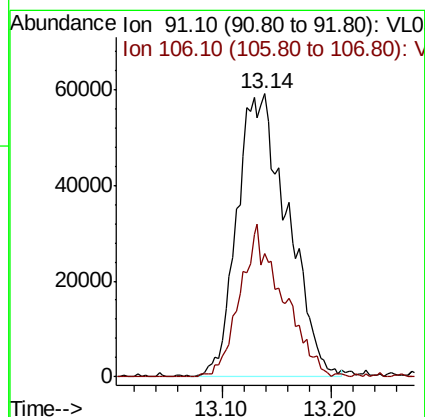
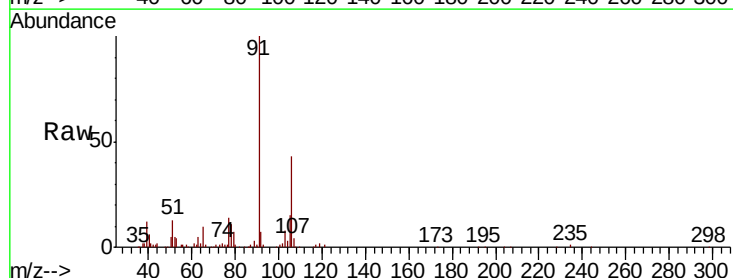
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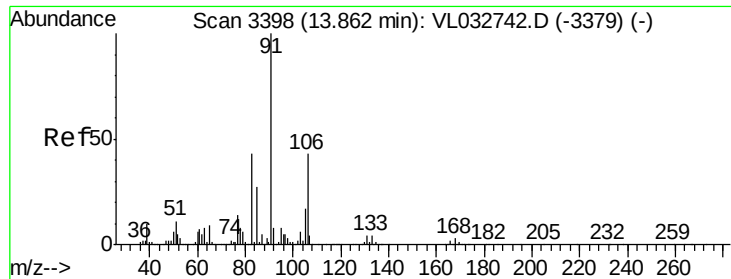
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#59
m/p-Xylene
Concen: 0.571 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Tgt Ion: 91 Resp: 189533
Ion Ratio Lower Upper
91 100
106 45.9 36.1 54.1





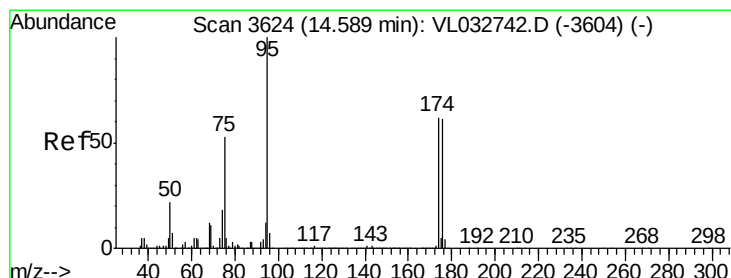
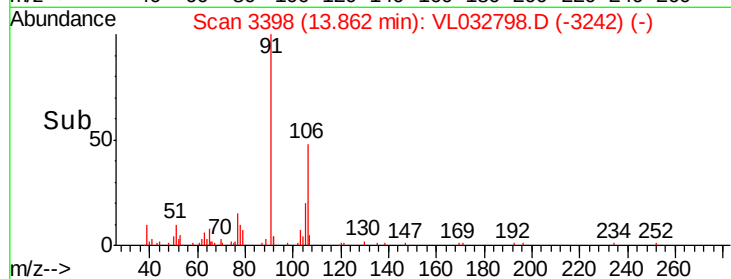
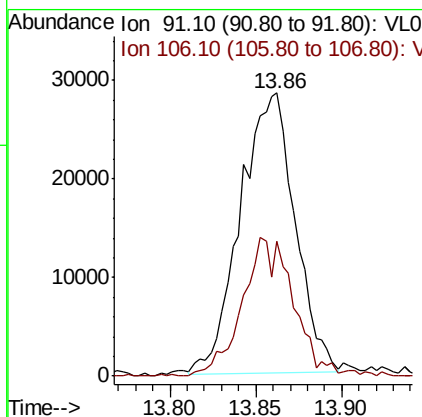
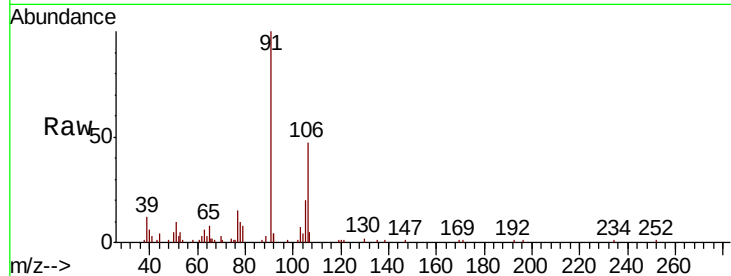
#60
o-Xylene
Concen: 0.188 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Instrument :
MSVOA_L
ClientSampled :
IA-103

Tot Ion: 91 Resp: 62781
Ion Ratio Lower Upper
91 100
106 46.9 21.9 65.7

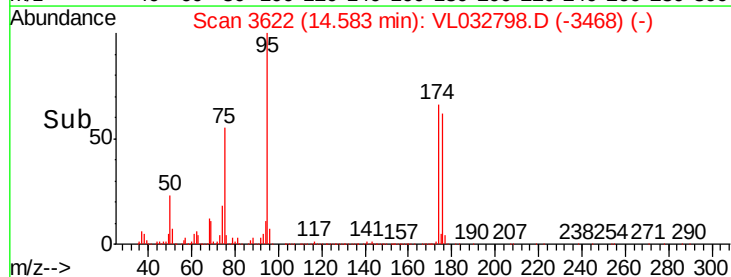
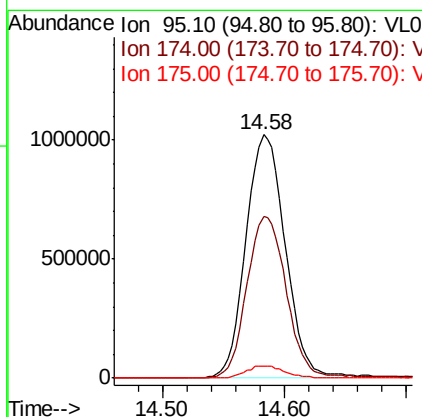
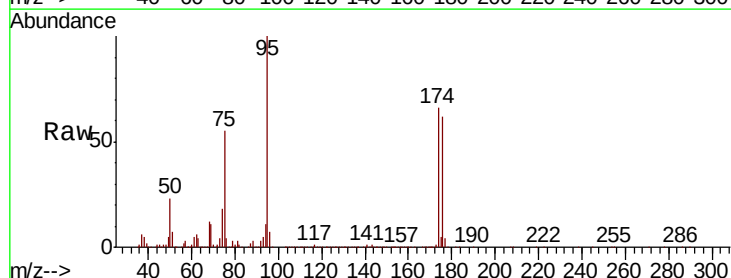
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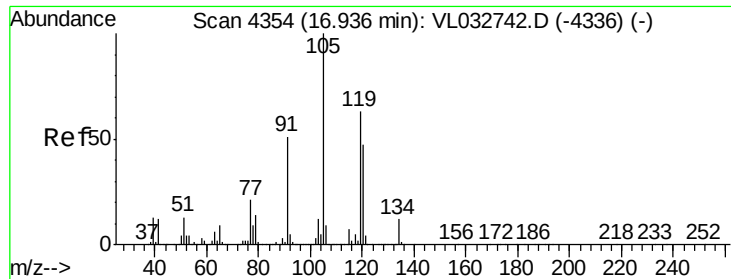
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.806 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032798.D
Acq: 21 Nov 2018 3:54

Tgt Ion: 95 Resp: 2273331
Ion Ratio Lower Upper
95 100
174 67.7 50.7 76.1
175 5.1 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.169 ppbv m
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.00 min
 Lab File: VL032798.D
 Acq: 21 Nov 2018 3:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-103

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	35.4	37.6	56.4#
91	12.9	42.5	63.7#
77	16.0	17.4	26.2#

Manual Integrations
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