

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033484.D
 Acq On : 28 Mar 2019 1:30
 Operator : SY/AP
 Sample : K1991-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-1DL

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:02 AM

Quant Time: Mar 31 11:27:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	791441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1968252	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1929381	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1472818	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.05	41	8924m	0.233	ppbv	
10) Heptane	8.24	43	149858	1.465	ppbv	99
13) Ethanol	3.66	45	37515m	3.789	ppbv	
15) Acetone	3.91	43	105434	1.108	ppbv #	89
26) Hexane	5.77	57	160835	2.049	ppbv #	40
30) Cyclohexane	7.24	84	121416	1.955	ppbv #	84
34) 2-Butanone	5.34	43	15352	0.130	ppbv	94
53) Toluene	9.94	91	35082	0.183	ppbv	98

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

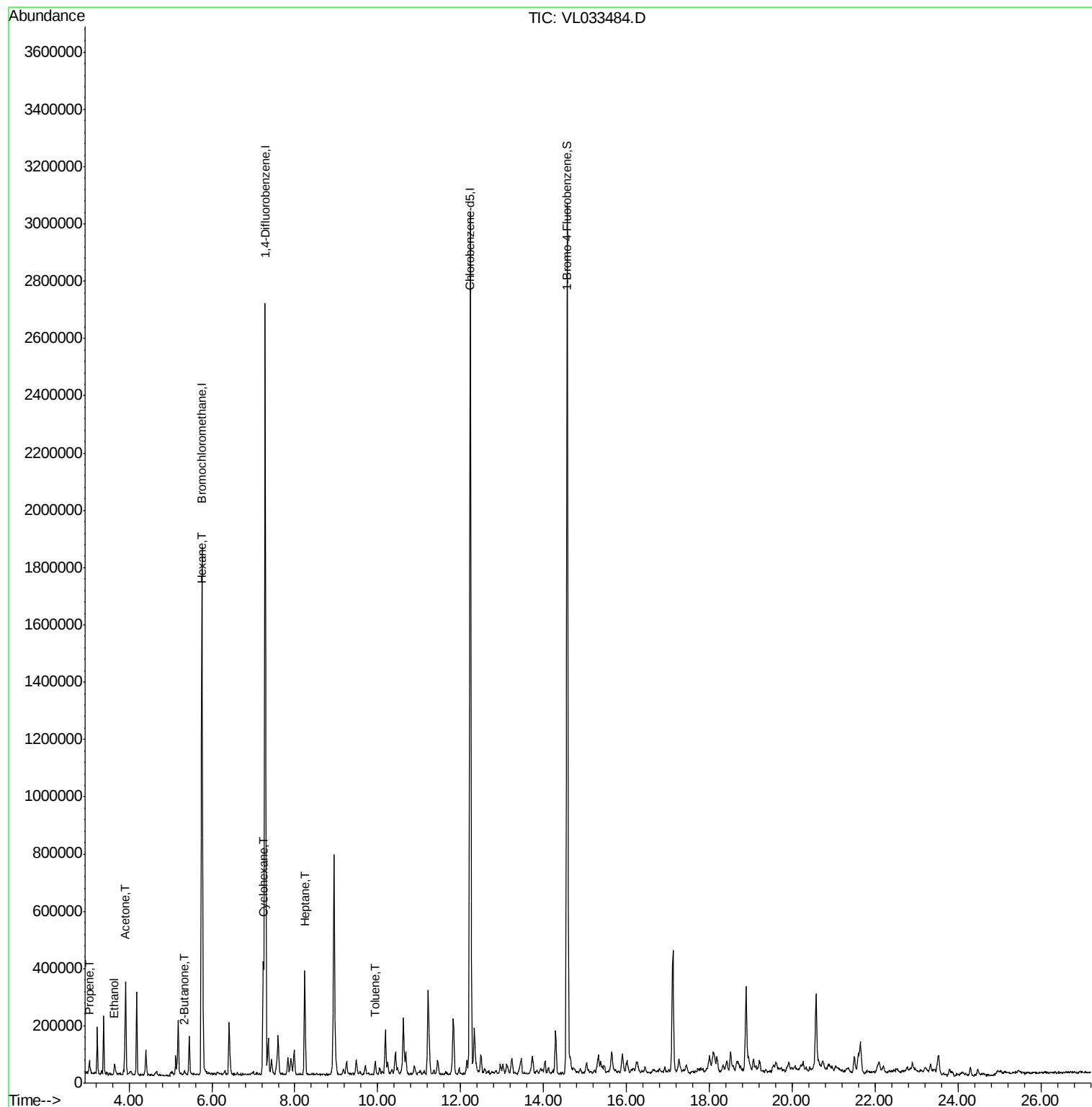
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033484.D
Acq On : 28 Mar 2019 1:30
Operator : SY/AP
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Misc : 400ml/MSVOA L
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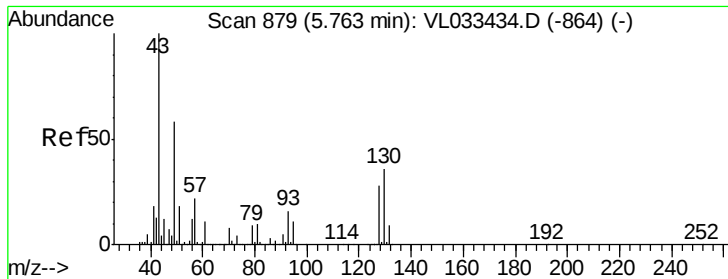
Instrument :
MSVOA_L
ClientSampleId :
VMP-1DL

Manual Integrations
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Quant Time: Mar 31 11:27:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Instrument :

MSVOA_L

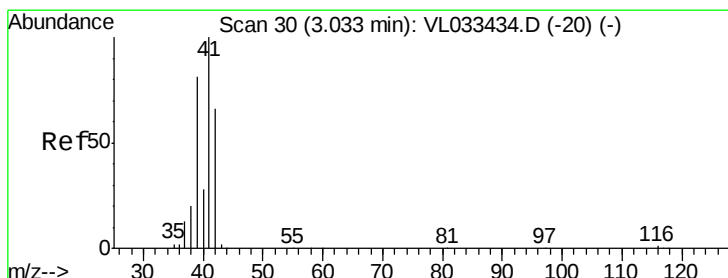
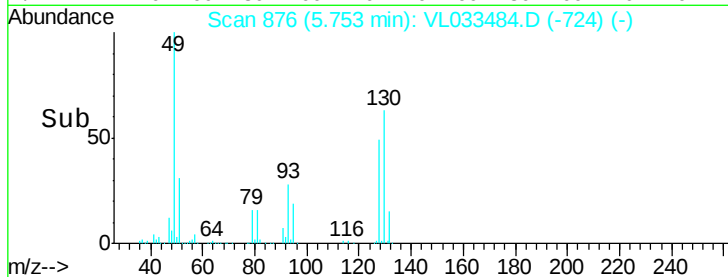
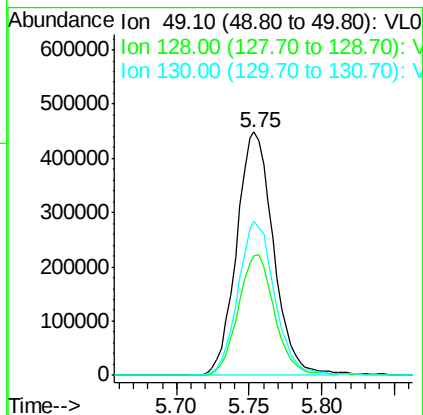
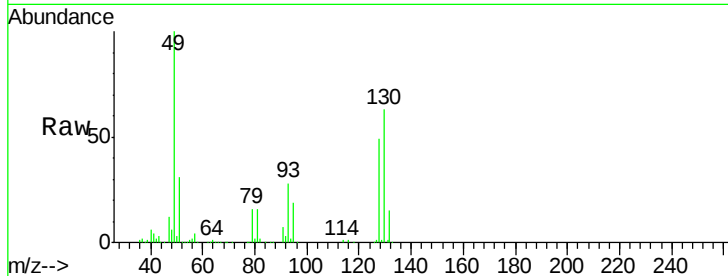
ClientSampleId :

VMP-1DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.6	24.0	72.0
130	63.7	31.2	93.6

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#9

Propene

Concen: 0.233 ppbv m

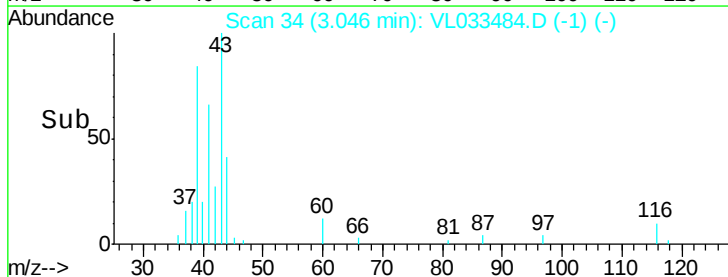
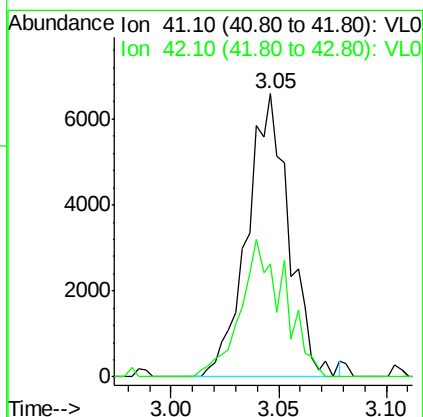
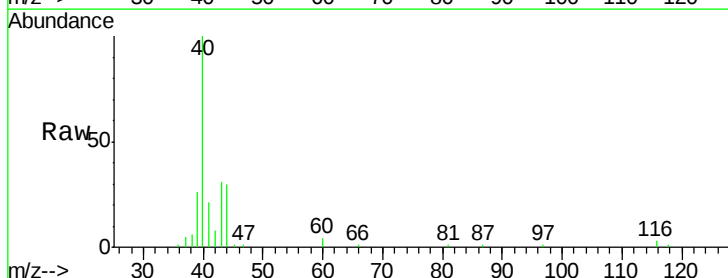
RT: 3.05 min Scan# 34

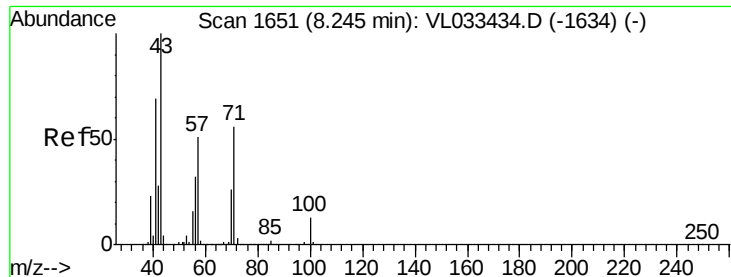
Delta R.T. 0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Tgt Ion	Ratio	Lower	Upper
41	100		
42	312.7	53.9	80.9#





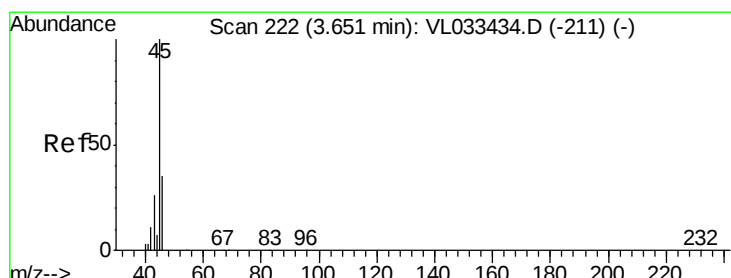
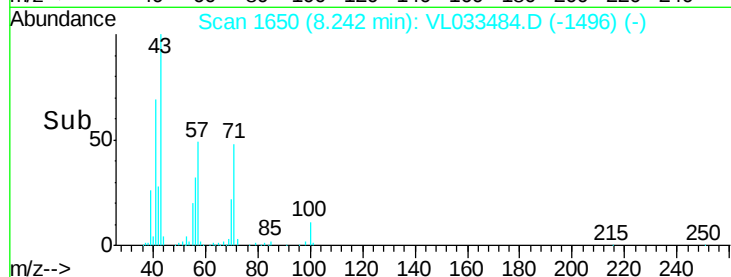
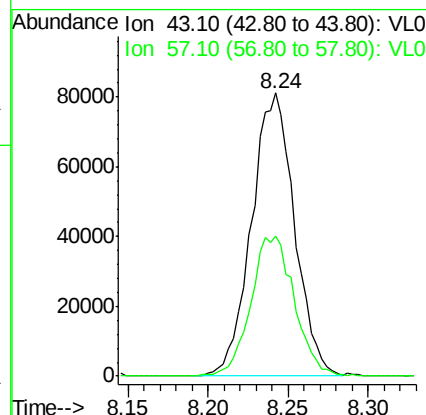
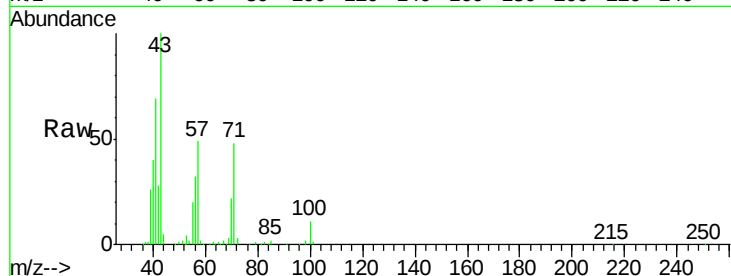
#10
Heptane
Concen: 1.465 ppbv
RT: 8.24 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VL033484.D
Acq: 28 Mar 2019 1:30

Instrument :
MSVOA_L
ClientSampleId :
VMP-1DL

Tot Ion: 43 Resp: 149858
Ion Ratio Lower Upper
43 100
57 50.1 40.6 60.8

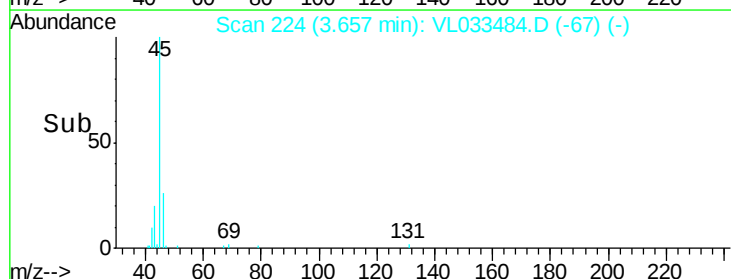
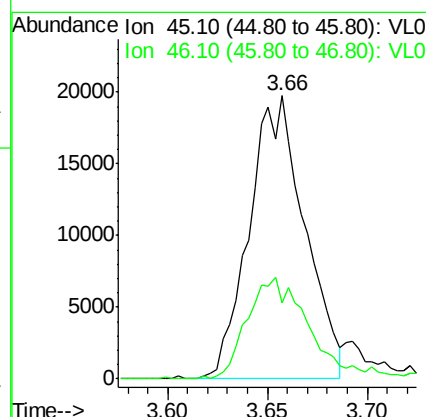
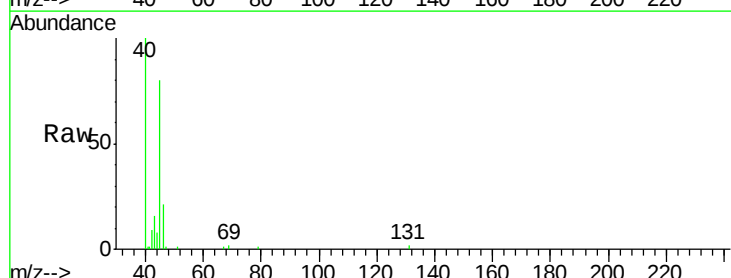
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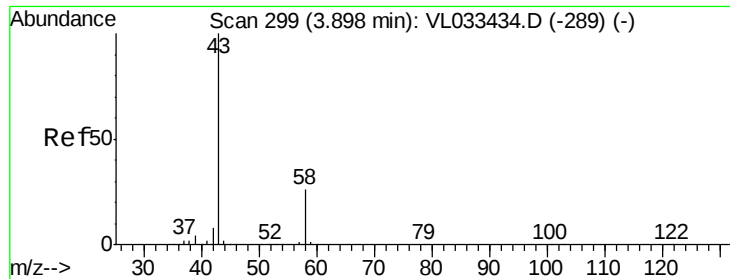
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#13
Ethanol
Concen: 3.789 ppbv m
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033484.D
Acq: 28 Mar 2019 1:30

Tgt Ion: 45 Resp: 37515
Ion Ratio Lower Upper
45 100
46 0.0 25.4 101.8#





#15

Acetone

Concen: 1.108 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Instrument :

MSVOA_L

ClientSampleId :

VMP-1DL

Tot Ion: 43 Resp: 105434

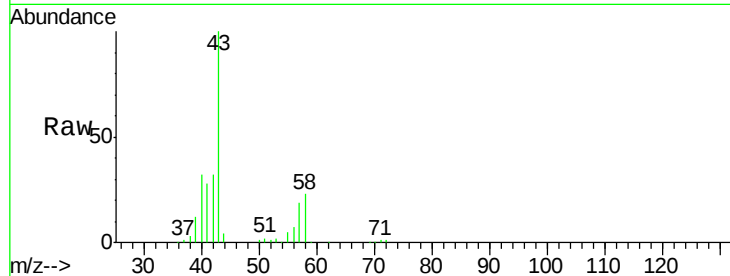
Ion Ratio Lower Upper

43 100

58 31.0 20.5 30.7#

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

80000

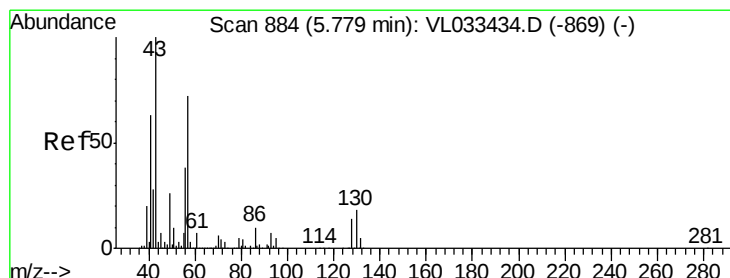
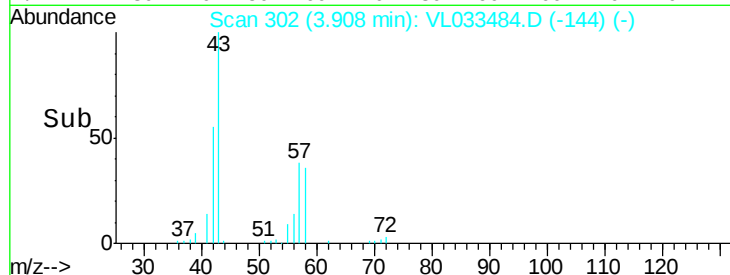
60000

40000

20000

0

Time-->



#26

Hexane

Concen: 2.049 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Tgt Ion: 57 Resp: 160835

Ion Ratio Lower Upper

57 100

41 90.1 70.7 106.1

43 69.2 182.6 274.0#

56 53.7 42.0 63.0

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

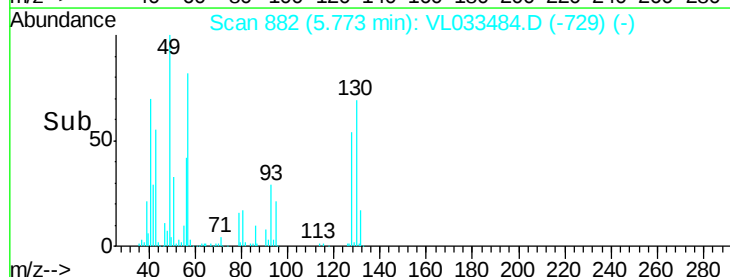
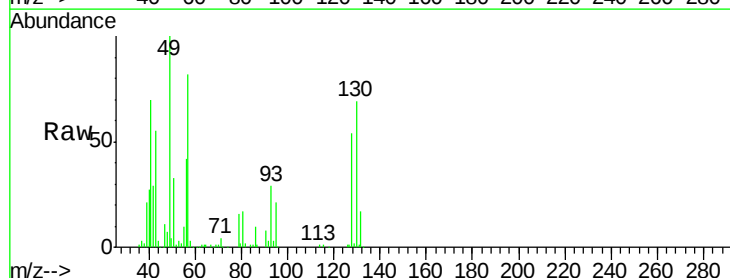
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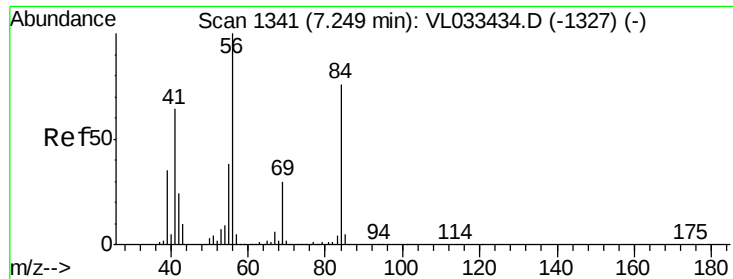
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50000

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Time-->





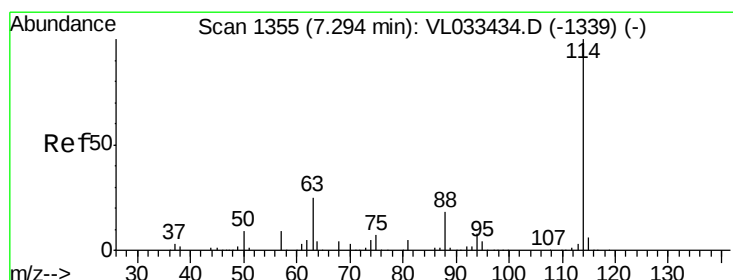
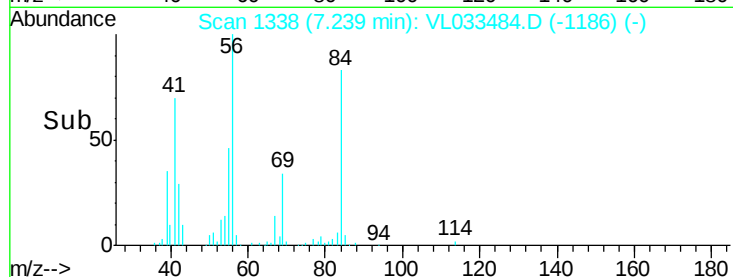
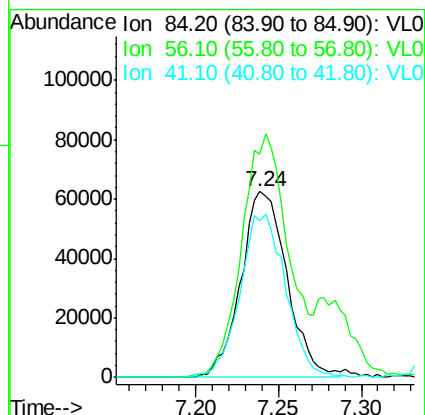
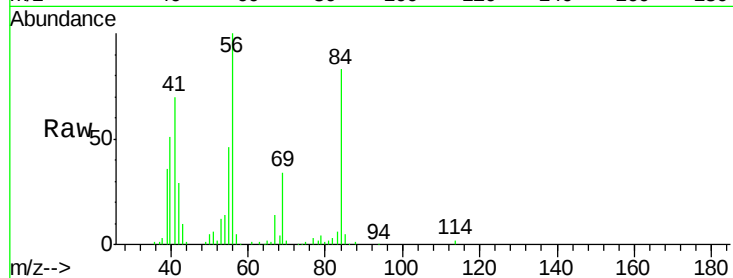
#30
Cvclohexane
Concen: 1.955 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033484.D
Acq: 28 Mar 2019 1:30

Instrument :
MSVOA_L
ClientSampled :
VMP-1DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	166.1	109.7	164.5#
41	86.9	68.2	102.2

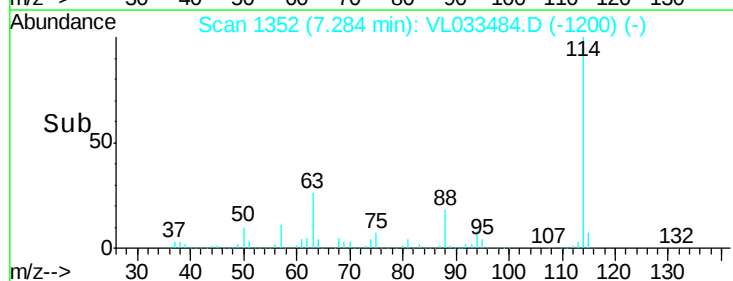
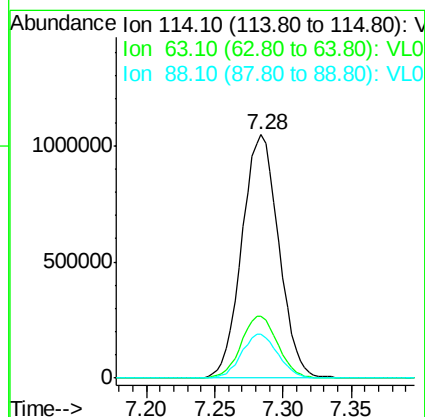
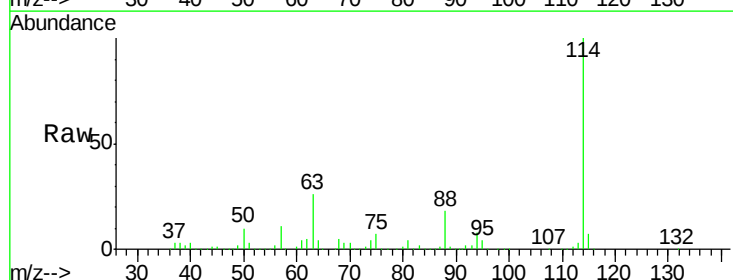
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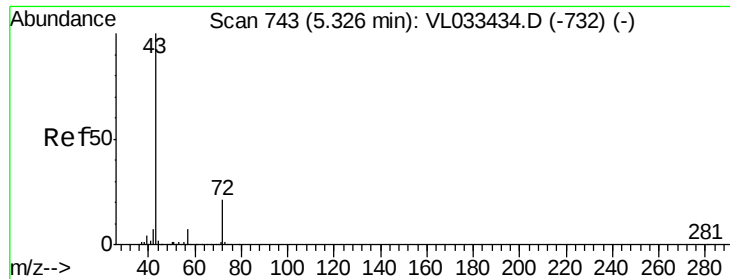
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033484.D
Acq: 28 Mar 2019 1:30

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.5	32.3
88	18.0	14.5	21.7





#34

2-Butanone

Concen: 0.130 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Instrument :

MSVOA_L

ClientSampleId :

VMP-1DL

Tot Ion: 43 Resp: 15352

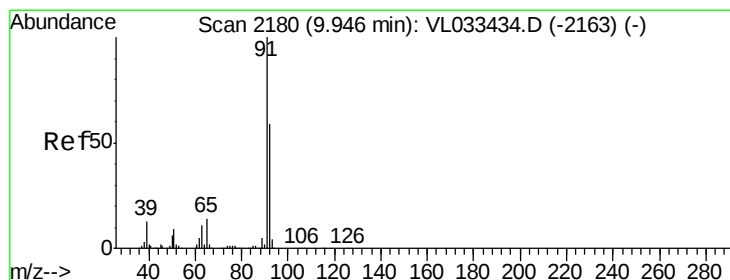
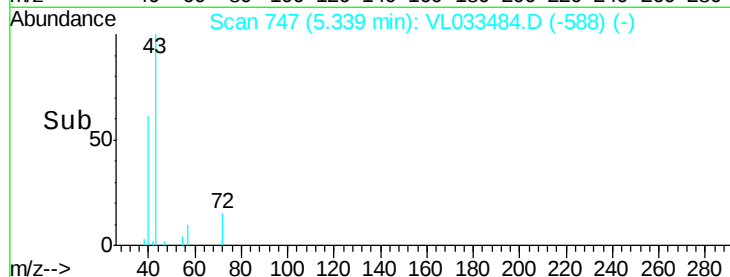
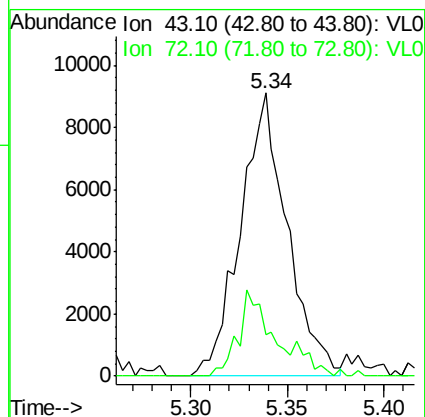
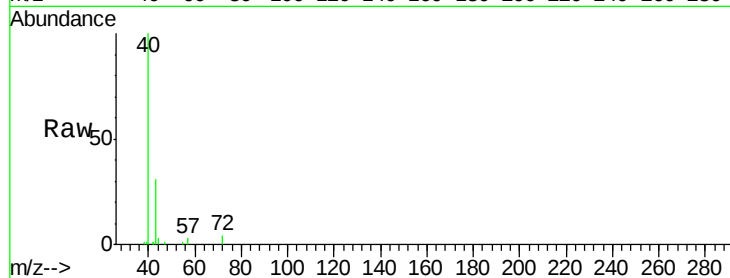
Ion Ratio Lower Upper

43 100

72 24.8 17.4 26.2

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#53

Toluene

Concen: 0.183 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033484.D

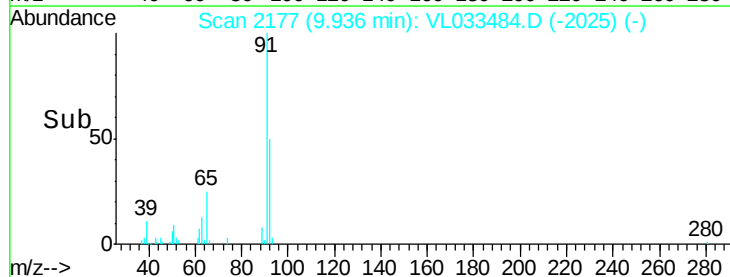
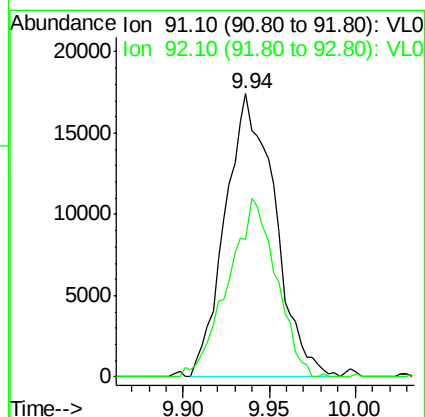
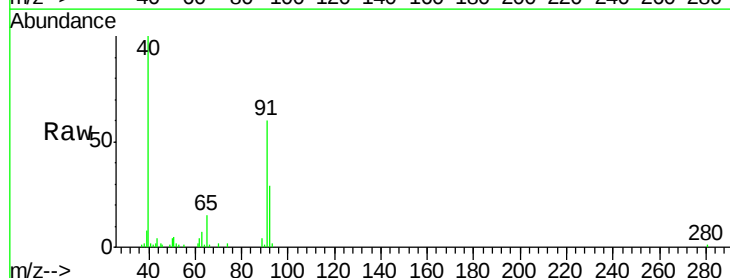
Acq: 28 Mar 2019 1:30

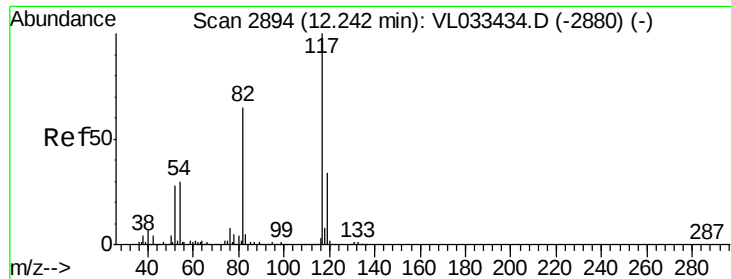
Tgt Ion: 91 Resp: 35082

Ion Ratio Lower Upper

91 100

92 60.8 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

Instrument :

MSVOA_L

ClientSampleId :

VMP-1DL

Tot Ion:117 Resp: 1929381

Ion Ratio Lower Upper

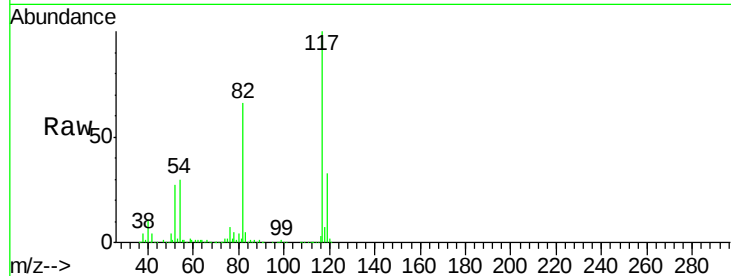
117 100

82 65.4 51.5 77.3

119 32.4 25.5 38.3

Manual Integrations
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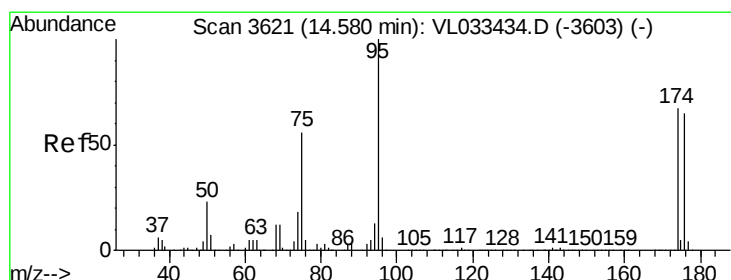
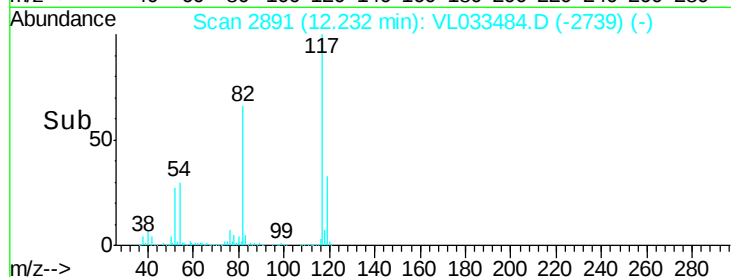
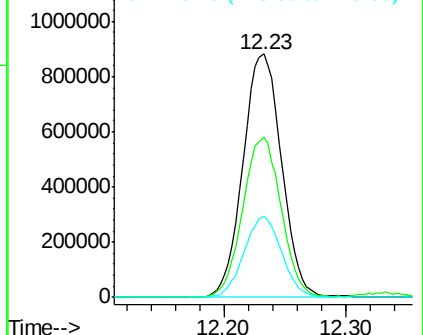
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.737 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033484.D

Acq: 28 Mar 2019 1:30

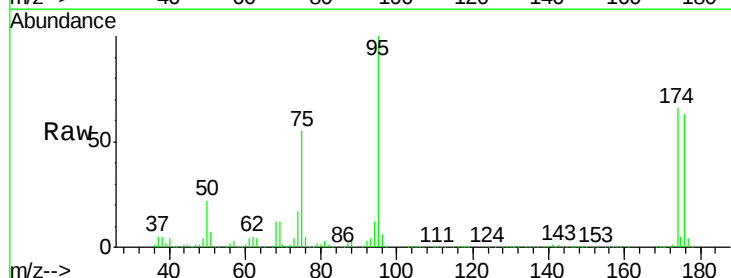
Tgt Ion: 95 Resp: 1472818

Ion Ratio Lower Upper

95 100

174 67.4 52.9 79.3

175 4.9 3.8 5.6



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

