

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032859.D
 Acq On : 30 Nov 2018 21:38
 Operator : SY/AP
 Sample : J6132-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-03DL

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:16:08 PM

Quant Time: Dec 03 16:25:16 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	1530278	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3918898	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3716881	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2814854	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.06	41	3542989m	72.975	ppbv	
10) Heptane	8.26	43	191224	1.032	ppbv	99
13) Ethanol	3.67	45	72074	4.532	ppbv	94
15) Acetone	3.92	43	417589m	2.988	ppbv	
26) Hexane	5.79	57	508594	3.508	ppbv #	43
27) Carbon Disulfide	4.63	76	2464627	13.406	ppbv	99
30) Cyclohexane	7.26	84	2700649	21.296	ppbv	96
34) 2-Butanone	5.35	43	185392	0.912	ppbv	98
36) Benzene	7.01	78	3922951	12.571	ppbv	97
44) 2,2,4-Trimethylpentane	8.00	57	227082	0.435	ppbv #	1
53) Toluene	9.96	91	1746654	5.365	ppbv	100
58) Ethyl Benzene	12.88	91	290307	0.649	ppbv	98
59) m/p-Xylene	13.13	91	867432	2.178	ppbv	96
60) o-Xylene	13.86	91	387808m	0.969	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	207920	0.453	ppbv #	64

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

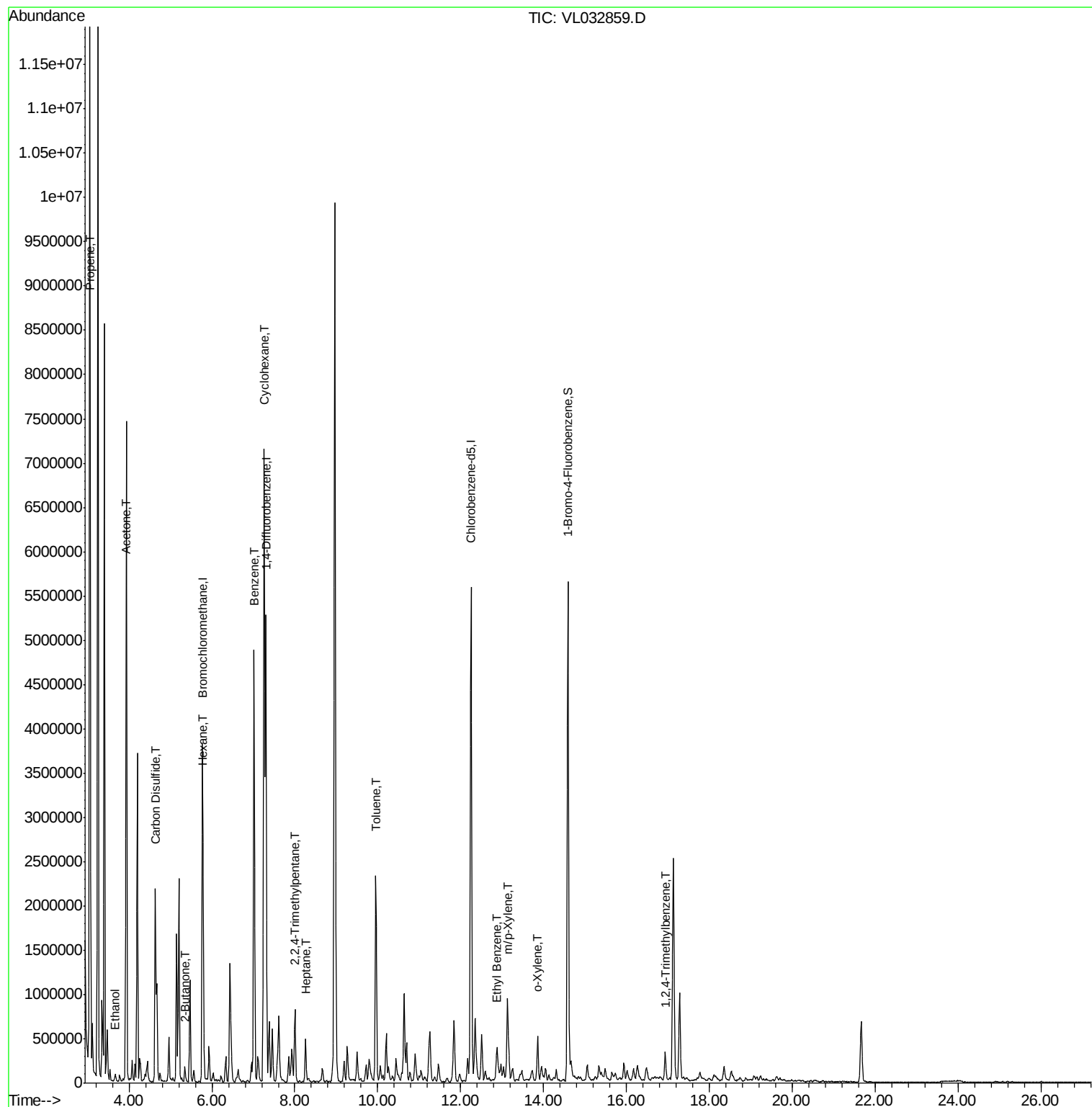
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL113018\
Data File : VL032859.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

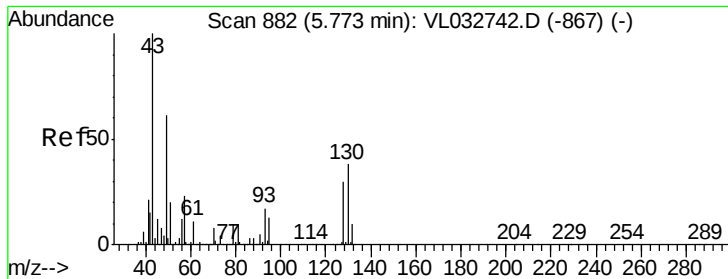
Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL

Manual Integrations
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Quant Time: Dec 03 16:25:16 2018
Quant Method : Z:\V0ASRV\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# 882

Delta R.T. 0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Instrument :

MSVOA_L

ClientSampled :

DSV-03DL

Tot Ion: 49 Resp: 1530278

Ion Ratio Lower Upper

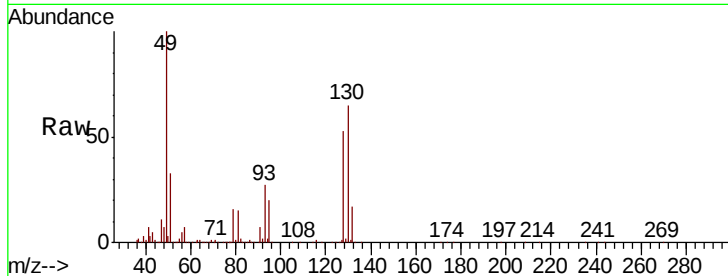
49 100

128 53.4 24.9 74.6

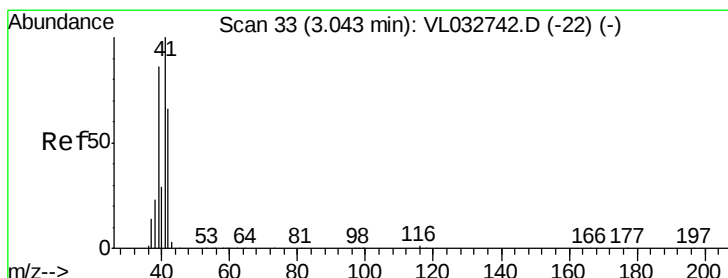
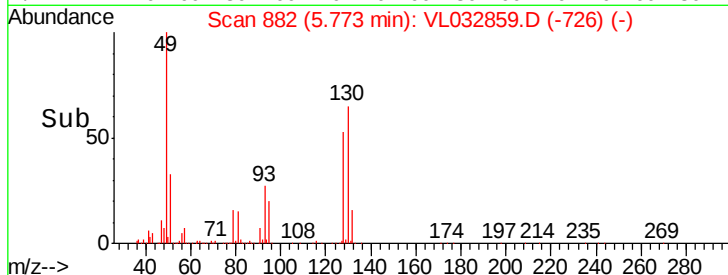
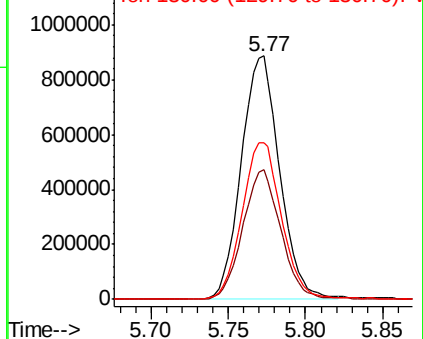
130 67.0 31.4 94.2

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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



#9

Propene

Concen: 72.975 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032859.D

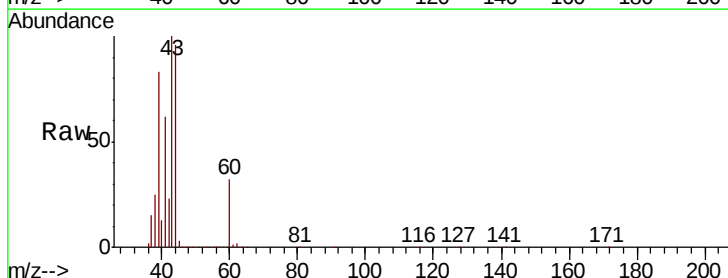
Acq: 30 Nov 2018 21:38

Tgt Ion: 41 Resp: 3542989

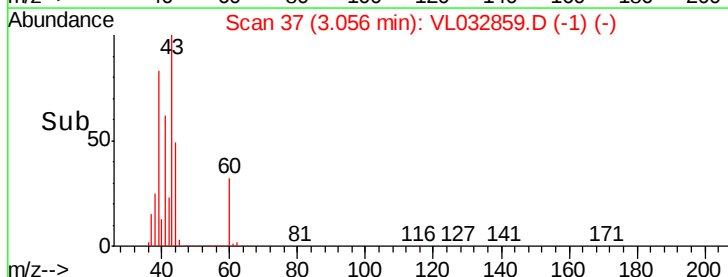
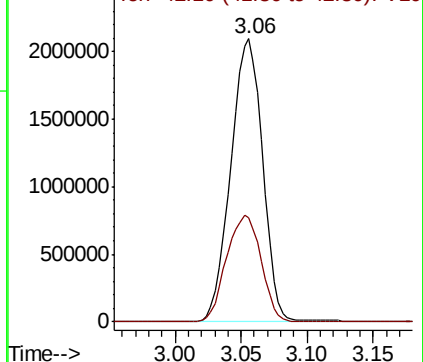
Ion Ratio Lower Upper

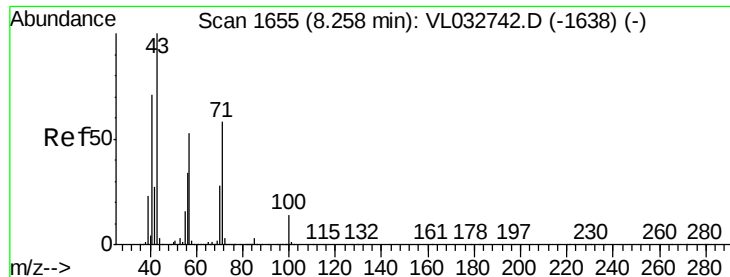
41 100

42 102.9 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.032 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL

Tot Ion: 43 Resp: 191224

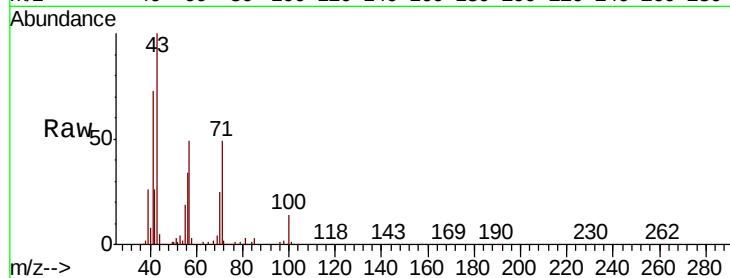
Ion Ratio Lower Upper

43 100

57 51.5 41.8 62.8

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.26

120000

100000

80000

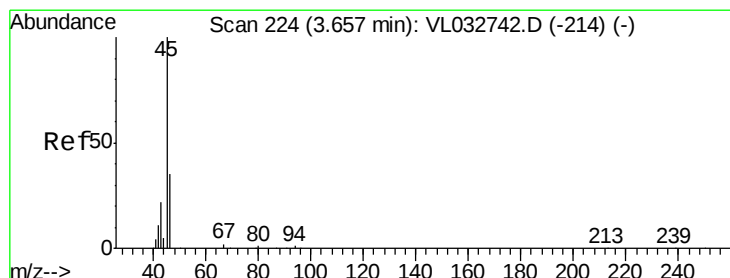
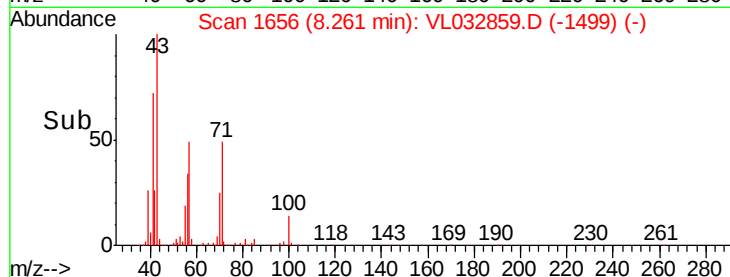
60000

40000

20000

0

Time-->



#13

Ethanol

Concen: 4.532 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032859.D

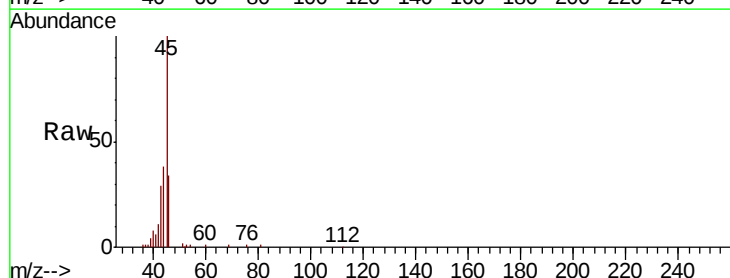
Acq: 30 Nov 2018 21:38

Tgt Ion: 45 Resp: 72074

Ion Ratio Lower Upper

45 100

46 39.6 14.5 57.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.67

40000

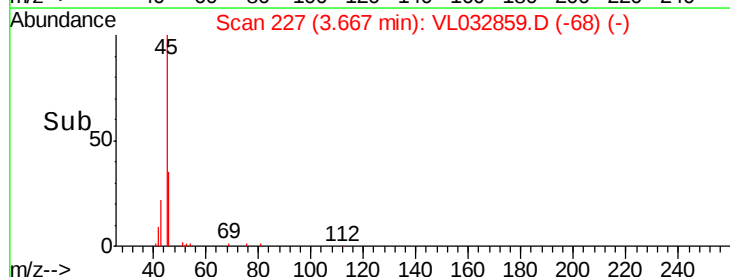
30000

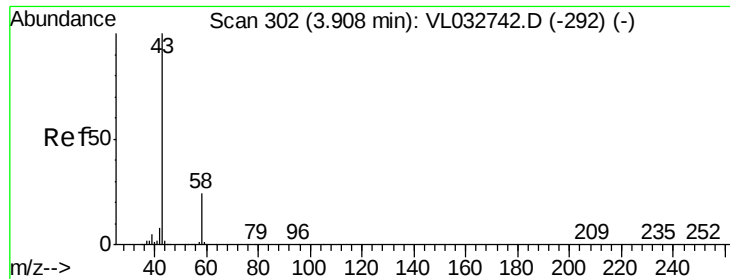
20000

10000

0

Time-->





#15

Acetone

Concen: 2.988 ppbv m

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Instrument :

MSVOA_L

ClientSampled :

DSV-03DL

Tot Ion: 43 Resp: 417589

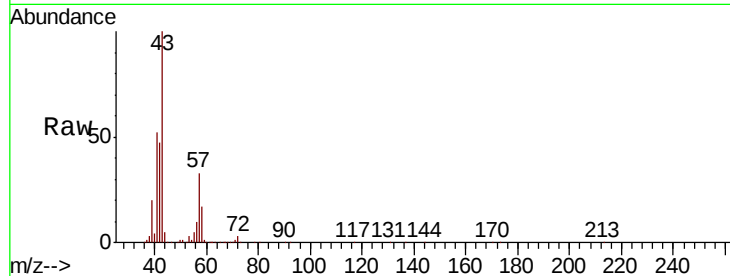
Ion Ratio Lower Upper

43 100

58 58.5 21.1 31.7#

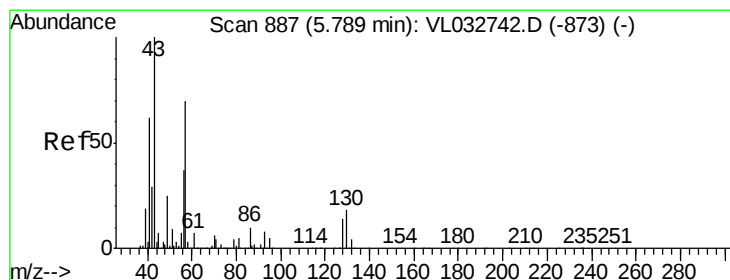
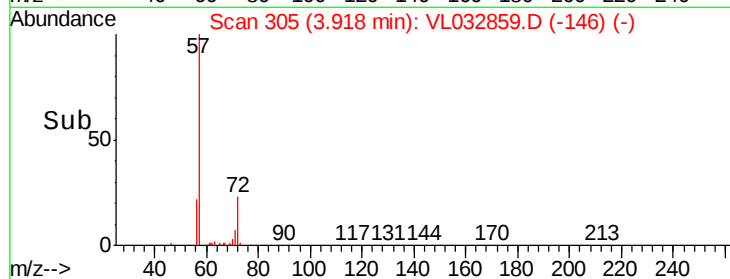
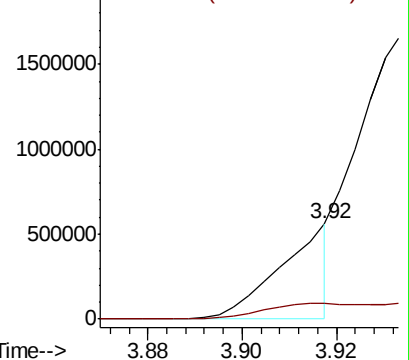
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#26

Hexane

Concen: 3.508 ppbv

RT: 5.79 min Scan# 888

Delta R.T. 0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Tgt Ion: 57 Resp: 508594

Ion Ratio Lower Upper

57 100

41 87.4 70.3 105.5

43 69.0 174.0 261.0#

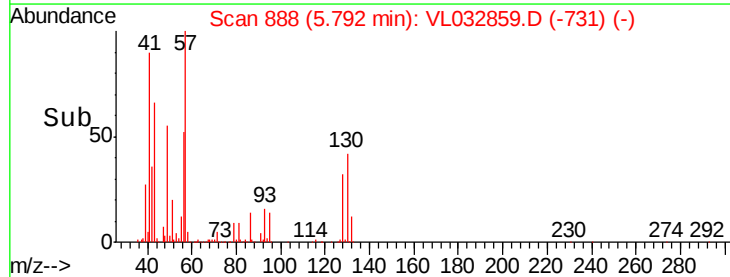
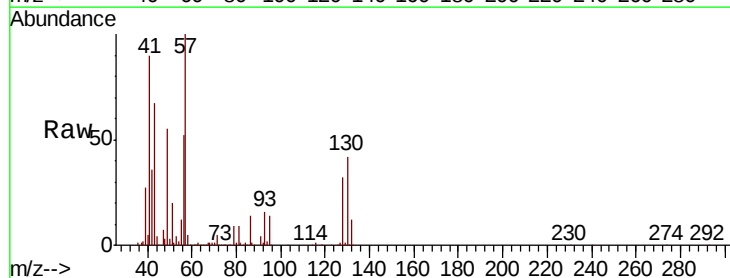
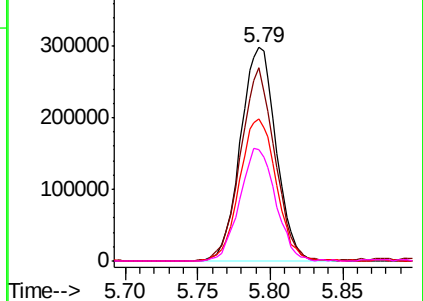
56 53.1 42.3 63.5

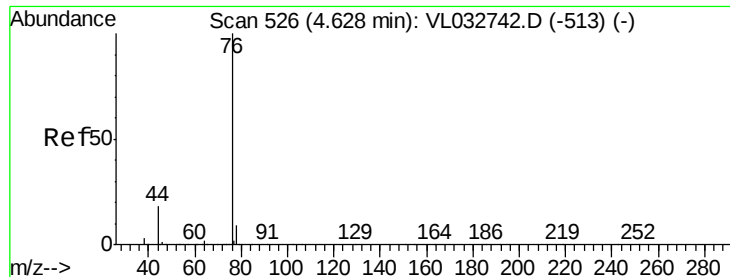
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 13.406 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL

Tot Ion: 76 Resp: 2464627

Ion Ratio Lower Upper

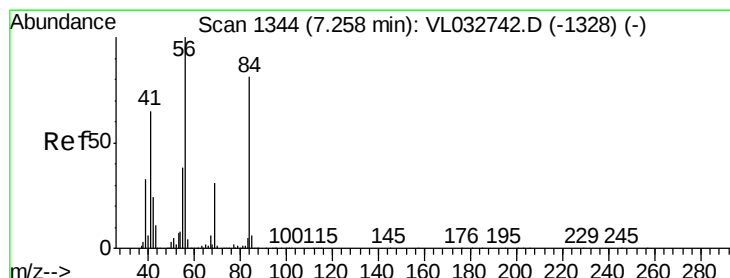
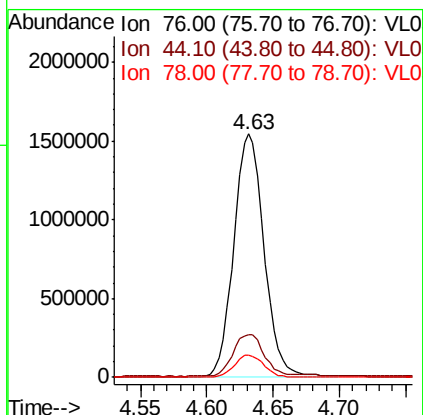
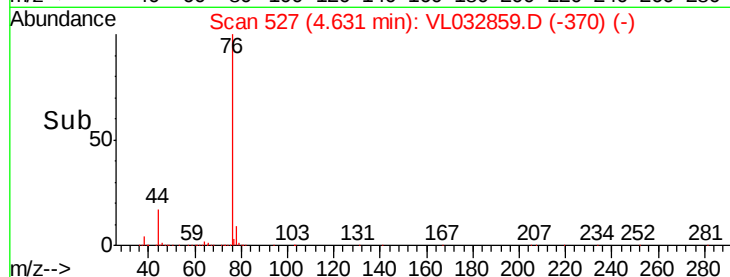
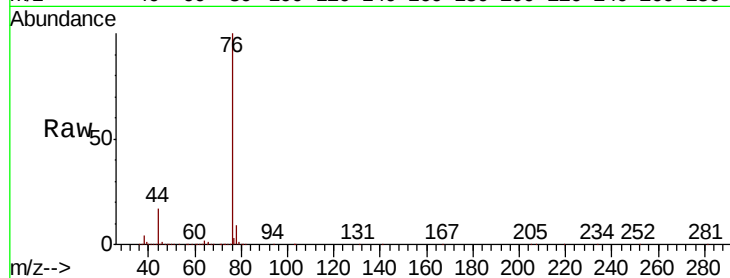
76 100

44 18.3 14.4 21.6

78 9.2 7.7 11.5

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#30

Cyclohexane

Concen: 21.296 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

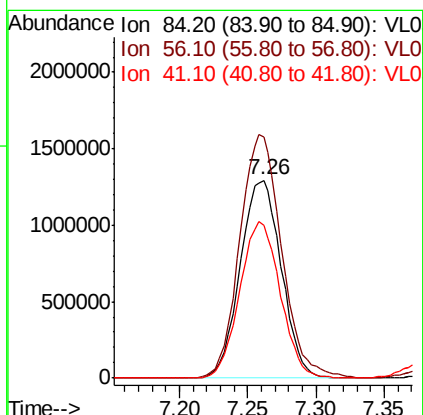
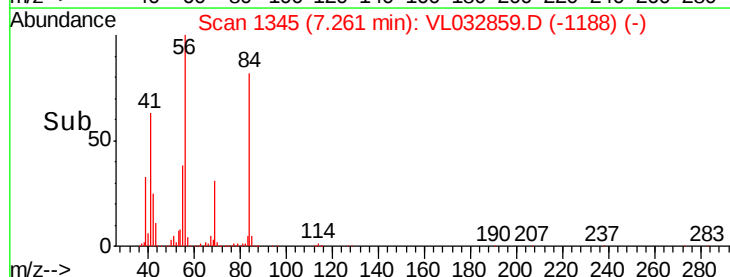
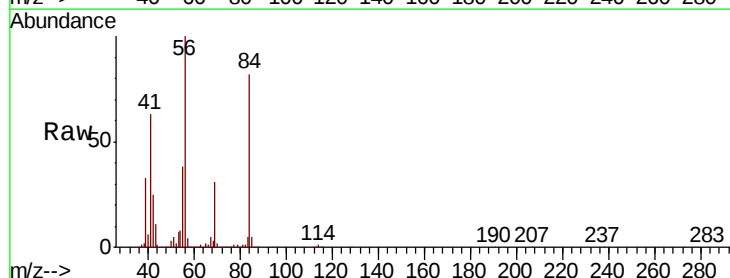
Tgt Ion: 84 Resp: 2700649

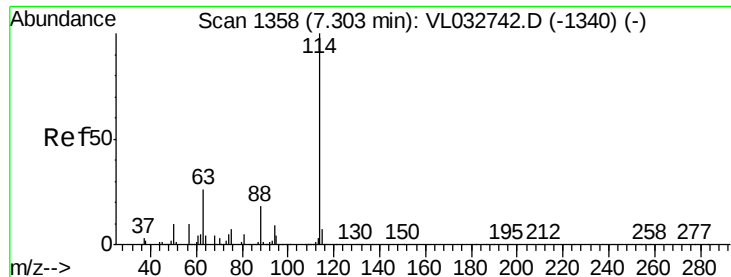
Ion Ratio Lower Upper

84 100

56 125.8 105.0 157.4

41 78.1 65.3 97.9





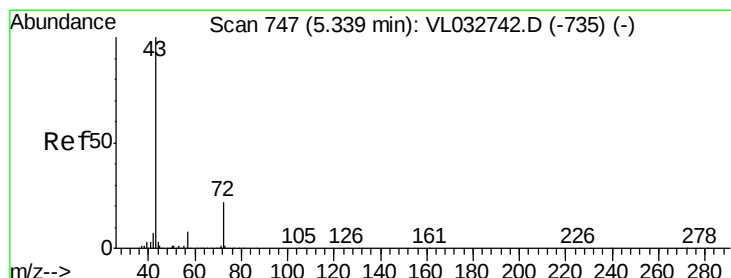
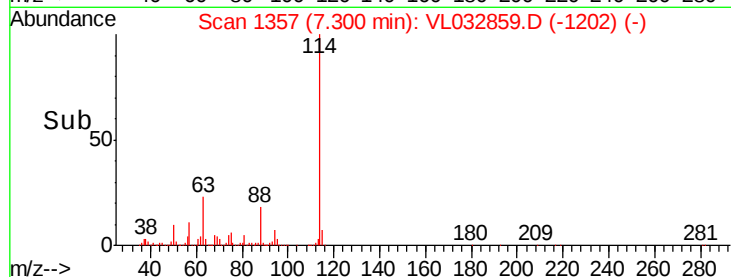
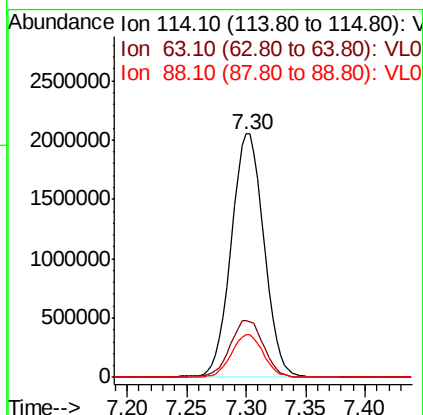
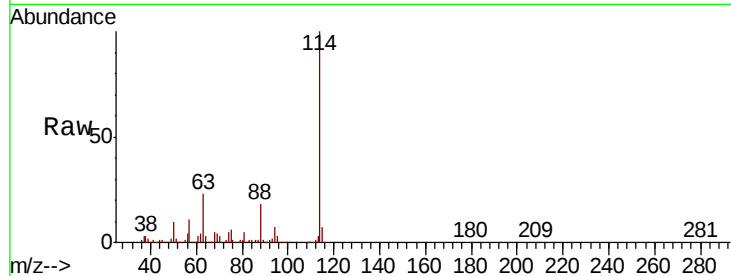
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032859.D
 Acq: 30 Nov 2018 21:38

Instrument :
 MSVOA_L
 ClientSampled :
 DSV-03DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.9	31.3
88	17.3	14.4	21.6

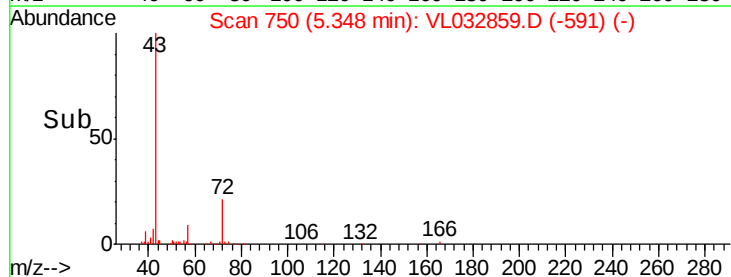
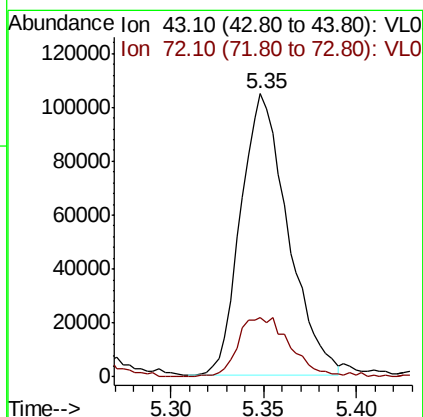
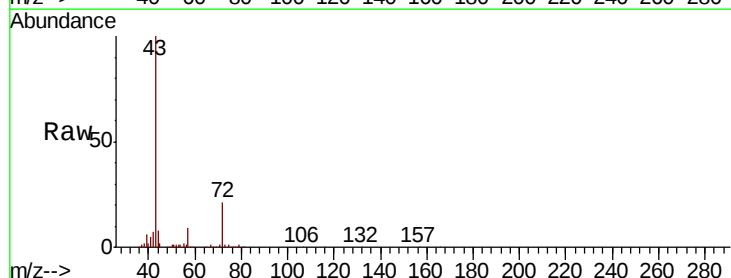
Manual Integrations
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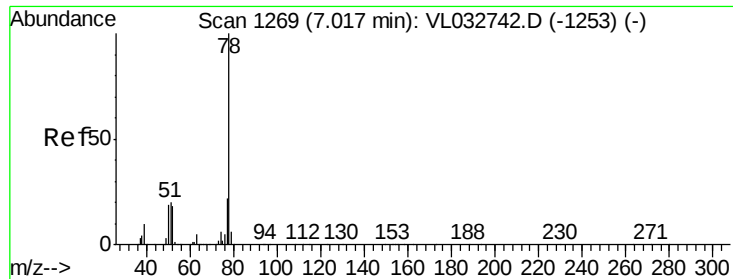
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#34
 2-Butanone
 Concen: 0.912 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.01 min
 Lab File: VL032859.D
 Acq: 30 Nov 2018 21:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6





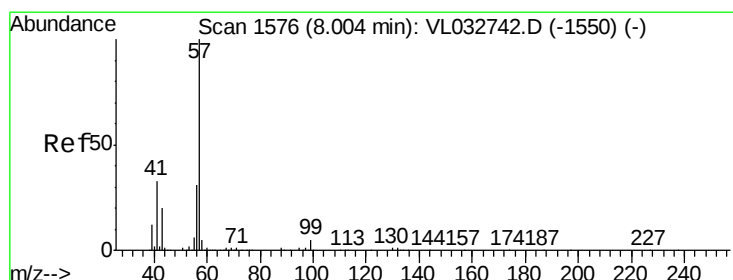
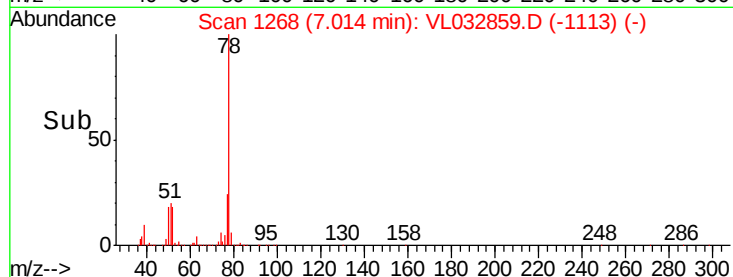
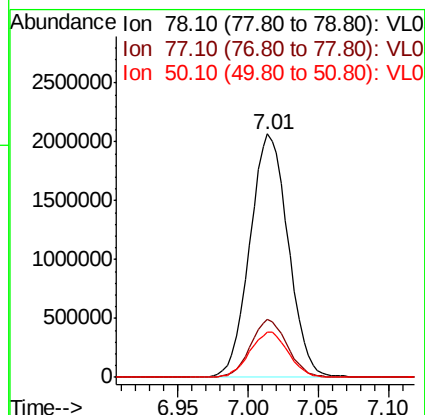
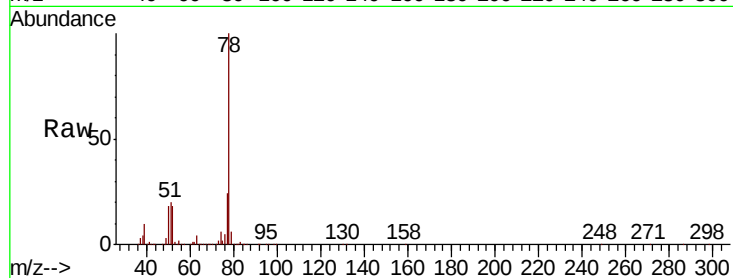
#36
Benzene
Concen: 12.571 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Instrument :
MSVOA_L
ClientSampled :
DSV-03DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.8	26.8
50	18.3	15.4	23.0

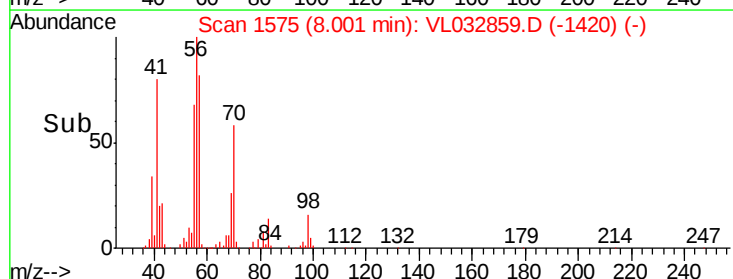
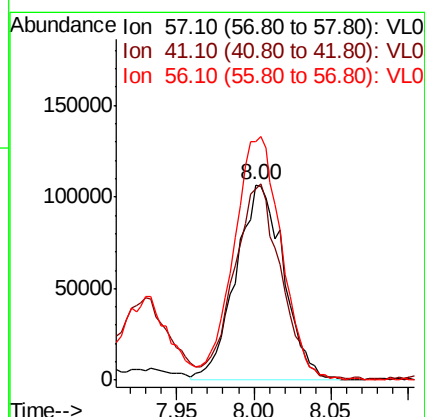
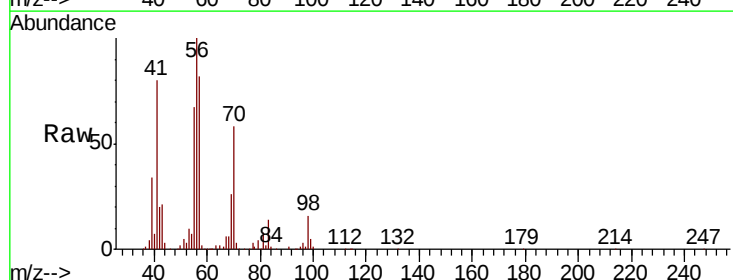
Manual Integrations
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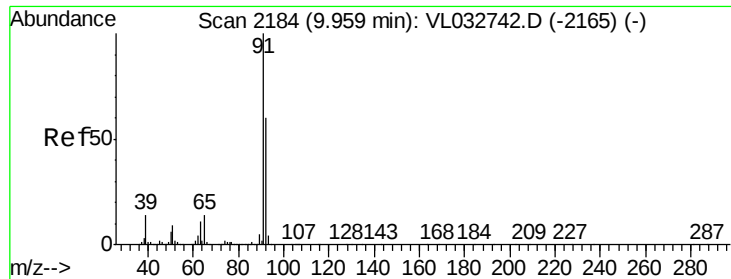
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#44
2,2,4-Trimethylpentane
Concen: 0.435 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.5	26.6	39.8#
56	125.3	24.8	37.2#





#53

Toluene

Concen: 5.365 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

Instrument :

MSVOA_L

ClientSampleId :

DSV-03DL

Tot Ion: 91 Resp: 1746654

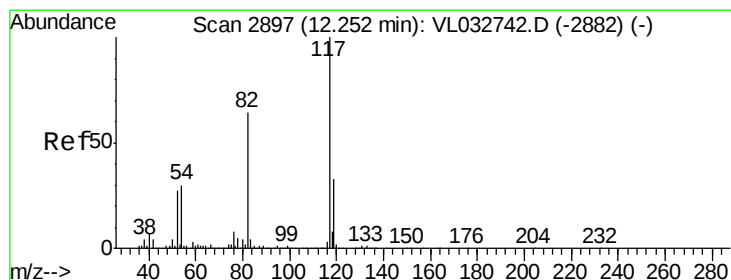
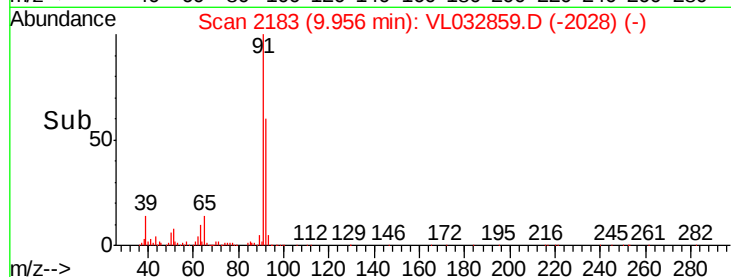
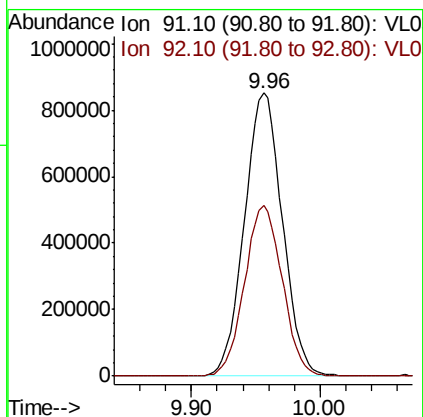
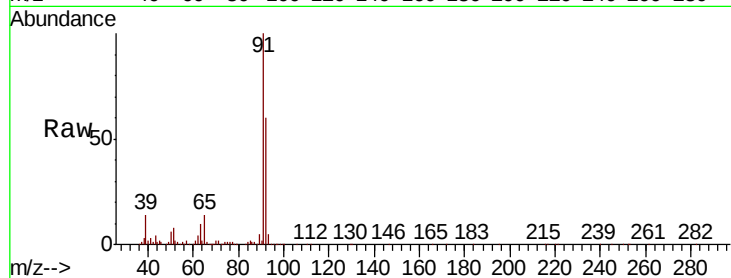
Ion Ratio Lower Upper

91 100

92 60.0 47.9 71.9

Manual Integrations
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12/3/2018 4:16:08 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032859.D

Acq: 30 Nov 2018 21:38

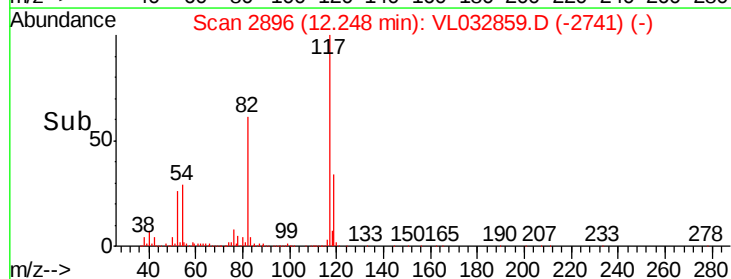
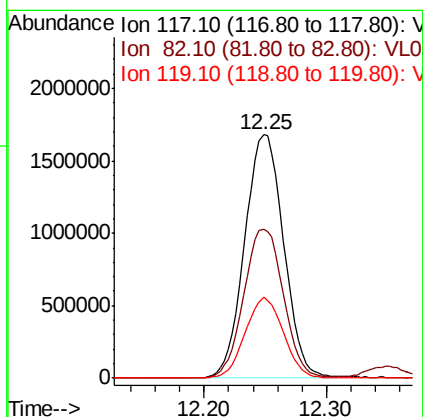
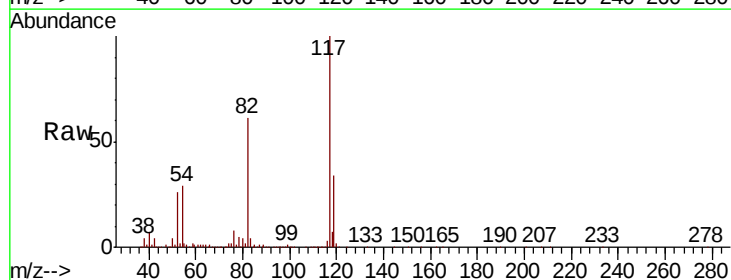
Tgt Ion: 117 Resp: 3716881

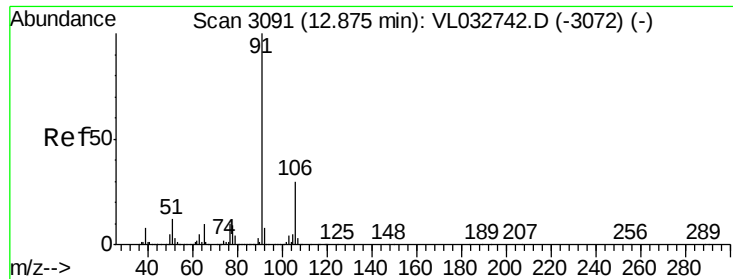
Ion Ratio Lower Upper

117 100

82 62.1 51.0 76.6

119 32.7 28.0 42.0





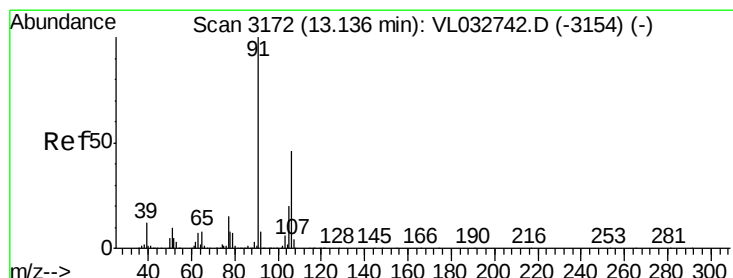
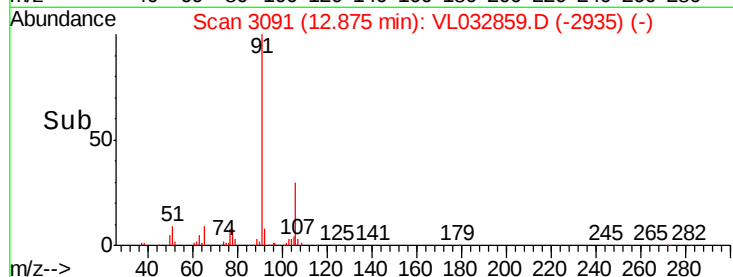
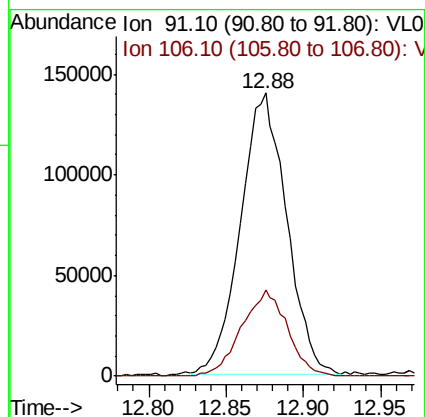
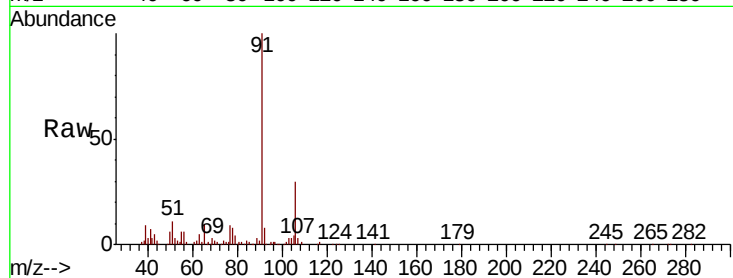
#58
Ethyl Benzene
Concen: 0.649 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Instrument :
MSVOA_L
ClientSampleId :
DSV-03DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.6	35.4

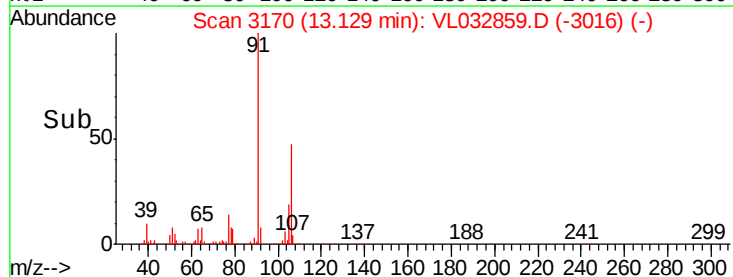
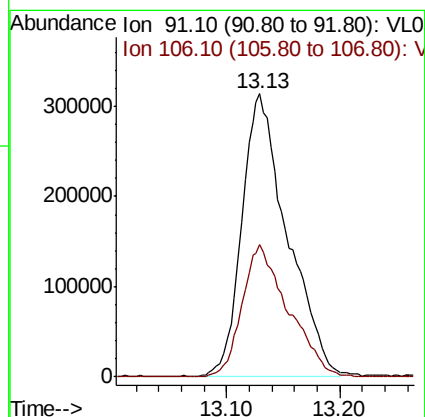
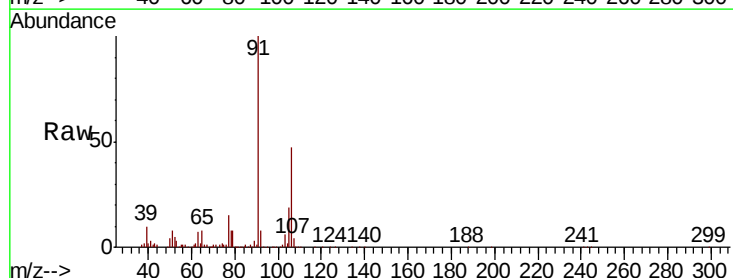
Manual Integrations
APPROVED

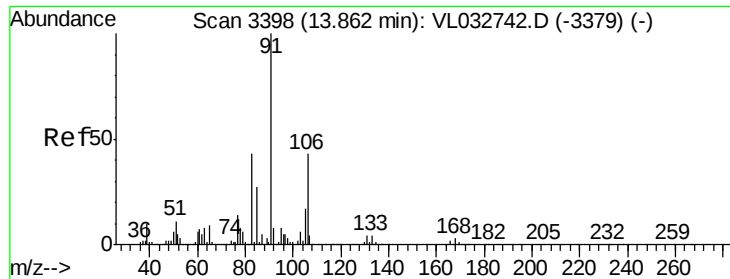
MMDadoda
12/3/2018 4:16:08 PM



#59
m/p-Xylene
Concen: 2.178 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.0	36.1	54.1





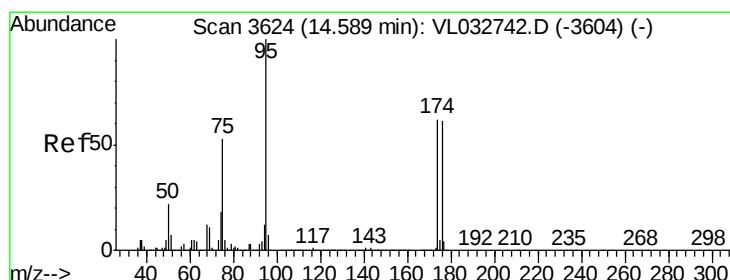
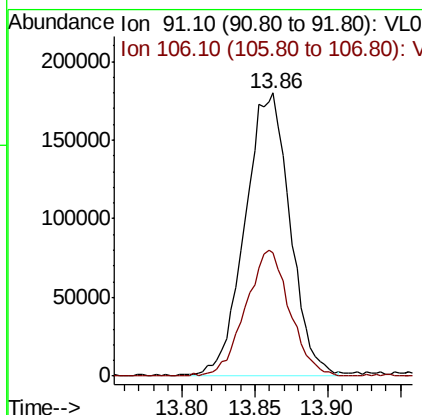
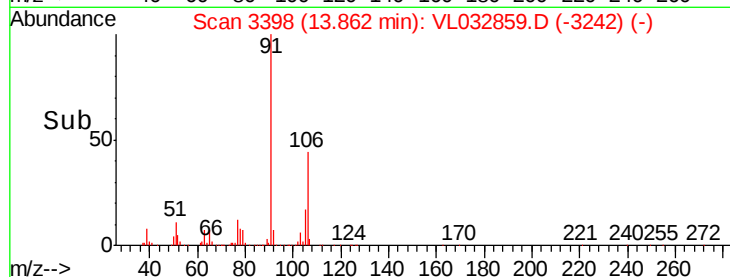
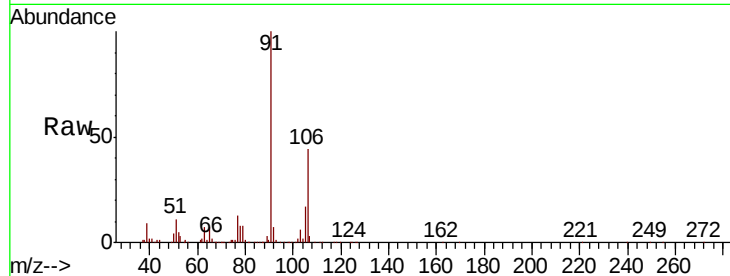
#60
o-Xylene
Concen: 0.969 ppbv m
RT: 13.86 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Instrument :
MSVOA_L
ClientSampled :
DSV-03DL

Tot Ion: 91 Resp: 387808
Ion Ratio Lower Upper
91 100
106 43.7 21.9 65.7

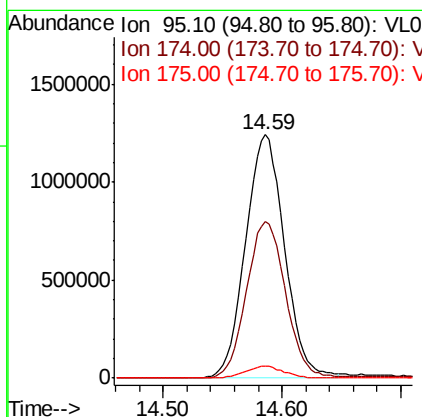
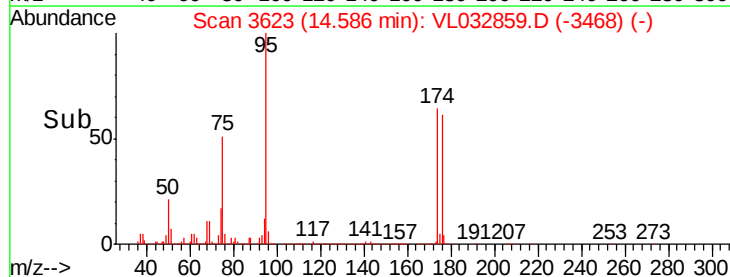
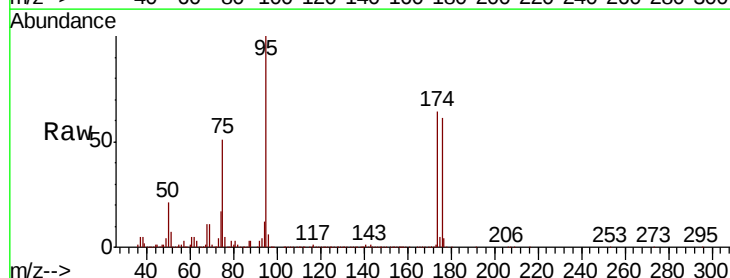
Manual Integrations
APPROVED

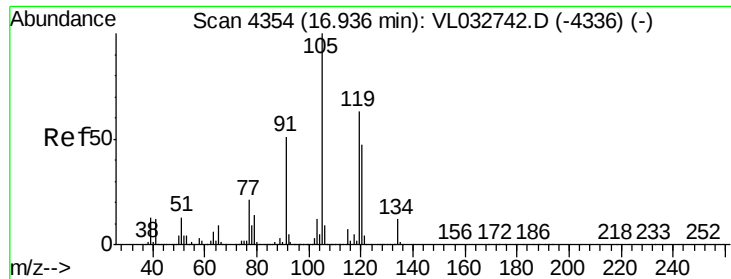
MMDadoda
12/3/2018 4:16:08 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.125 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032859.D
Acq: 30 Nov 2018 21:38

Tgt Ion: 95 Resp: 2814854
Ion Ratio Lower Upper
95 100
174 66.0 50.7 76.1
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.453 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL032859.D
 Acq: 30 Nov 2018 21:38

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-03DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	37.4	37.6	56.4#
91	7.7	42.5	63.7#
77	14.6	17.4	26.2#

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:16:08 PM

