

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL040821\
 Data File : VL036751.D
 Acq On : 8 Apr 2021 15:19
 Operator : SY/AP
 Sample : M1981-04DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:46:44 AM

Quant Time: Apr 09 11:44:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1169151	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2847394	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2423752	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1775720	9.19	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	56429	0.810	ppbv	94
15) Acetone	3.84	43	1119564	9.729	ppbv	97
20) Methylene Chloride	4.34	84	197660	3.669	ppbv	93
26) Hexane	5.68	57	171975m	1.355	ppbv	
34) 2-Butanone	5.25	43	52655	0.379	ppbv #	78
36) Benzene	6.88	78	25375m	0.097	ppbv	

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

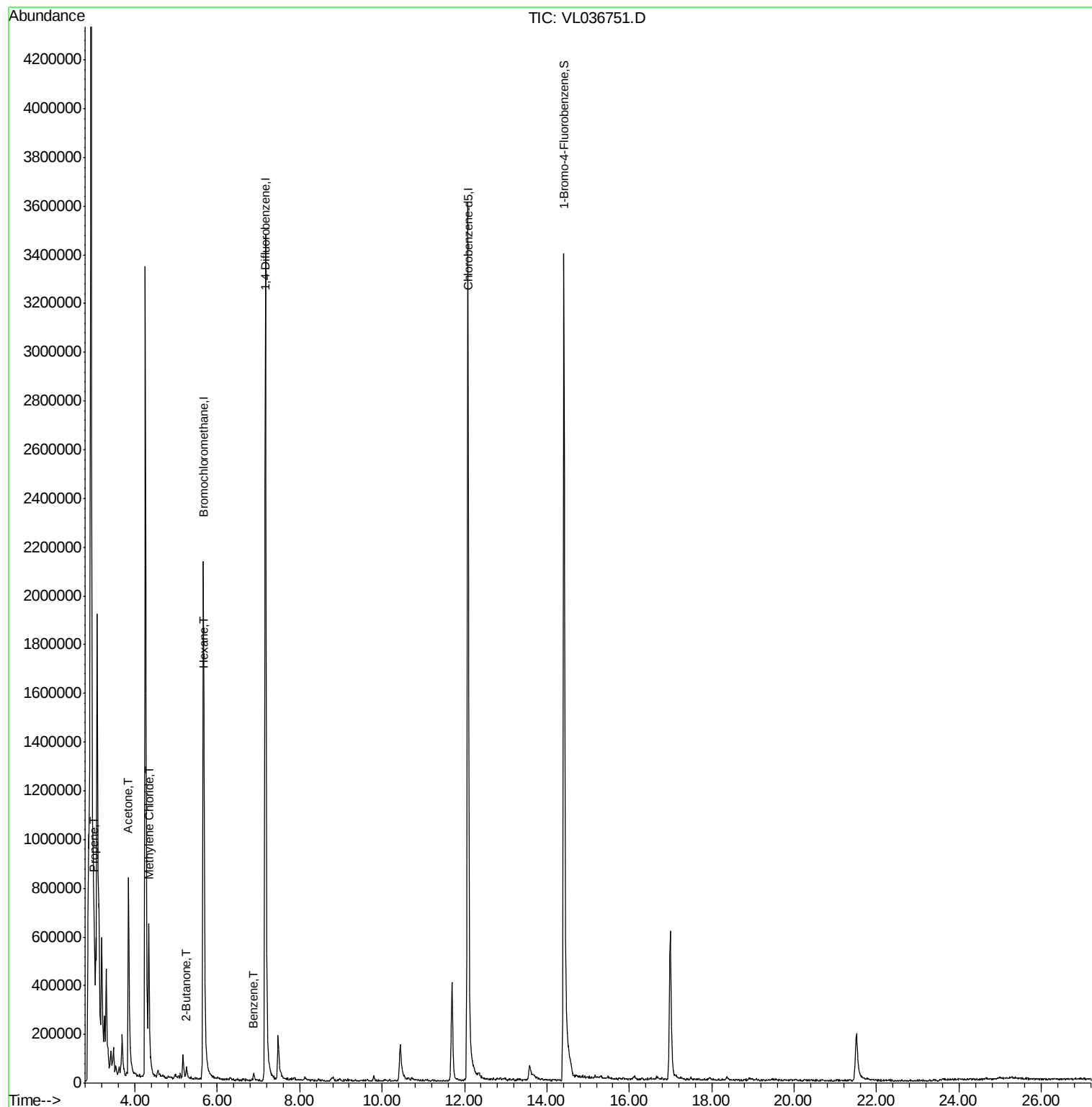
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL040821\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
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#1

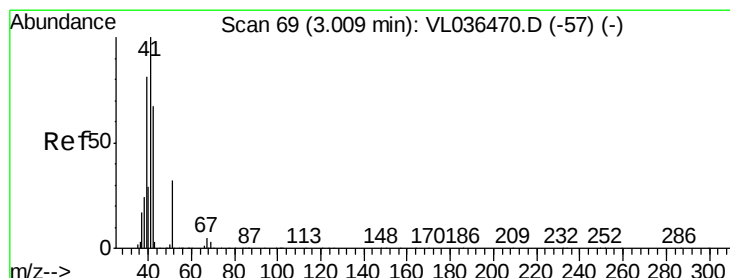
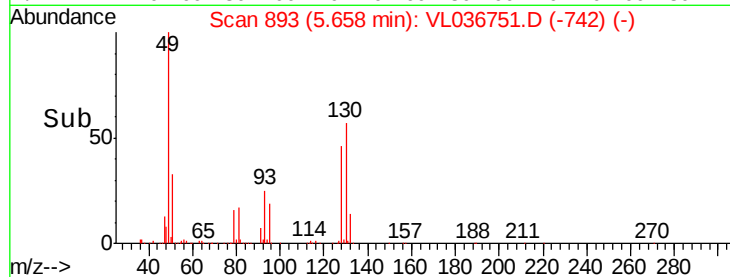
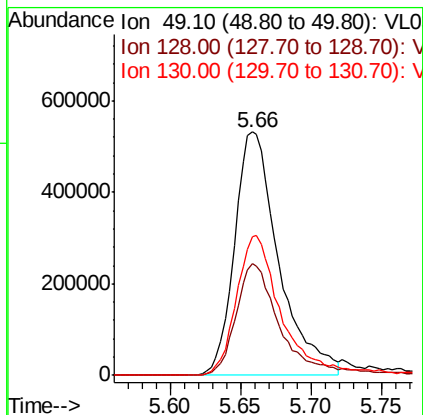
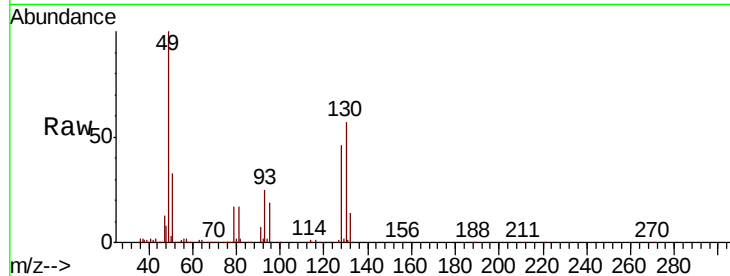
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.01 min
 Lab File: VL036751.D
 Acq: 8 Apr 2021 15:19

Instrument :
 MSVOA_L
 ClientSampled :
 SG-1DL

Tot Ion	49	Resp	1169151
Ion	Ratio	Lower	Upper
49	100		
128	47.6	23.5	70.6
130	60.6	29.1	87.4

Manual Integrations
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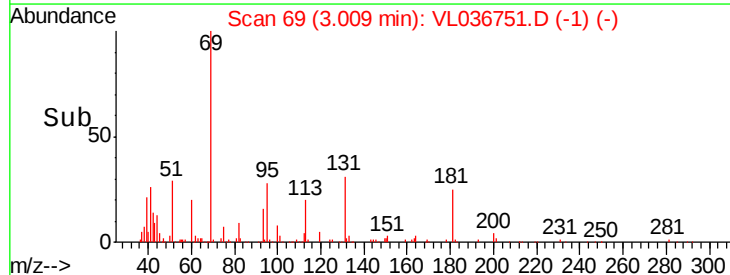
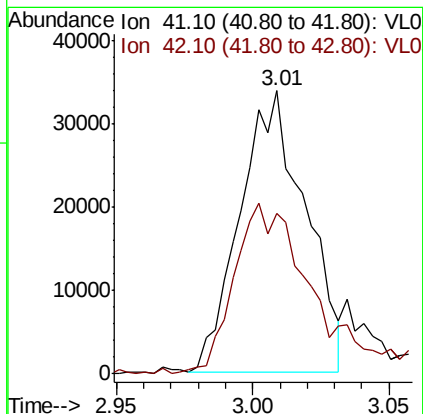
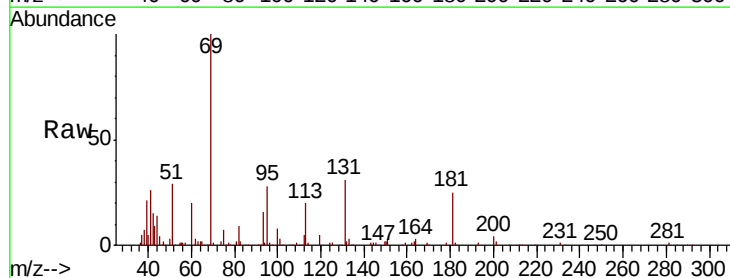
MMDadoda
 4/12/2021 11:46:44 AM

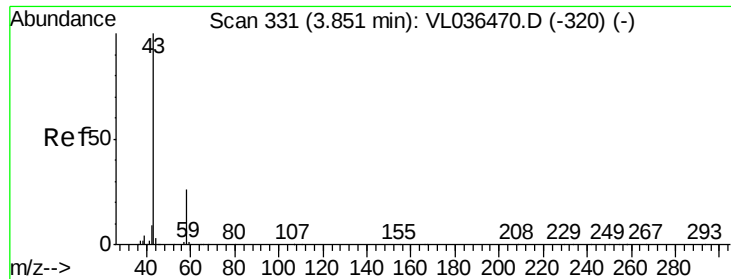


#9

Propene
 Concen: 0.810 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL036751.D
 Acq: 8 Apr 2021 15:19

Tgt Ion	41	Resp	56429
Ion	Ratio	Lower	Upper
41	100		
42	75.9	57.0	85.4





#15

Acetone

Concen: 9.729 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 43 Resp: 1119564

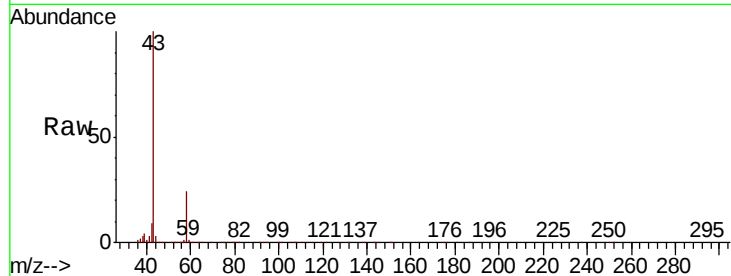
Ion Ratio Lower Upper

43 100

58 27.9 21.2 31.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

600000

500000

400000

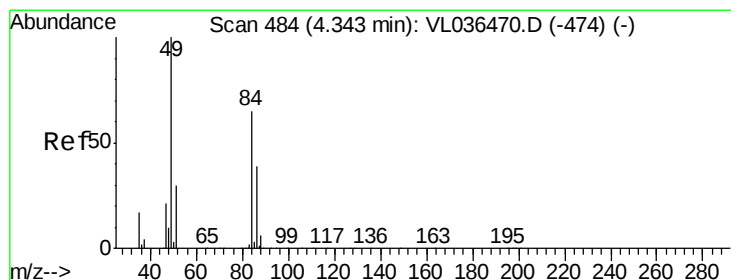
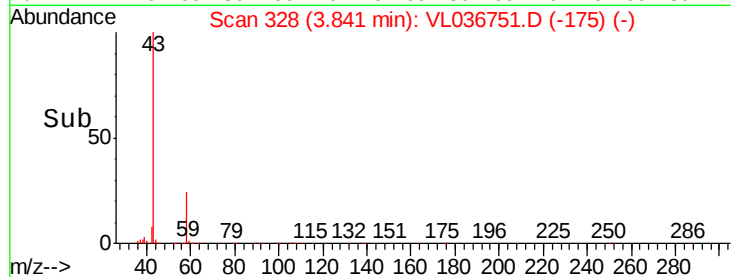
300000

200000

100000

0

Time--> 3.75 3.80 3.85 3.90 3.95



#20

Methylene Chloride

Concen: 3.669 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Tgt Ion: 84 Resp: 197660

Ion Ratio Lower Upper

84 100

49 163.0 122.9 184.3

51 45.2 36.9 55.3

86 66.8 48.2 72.4

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

250000

200000

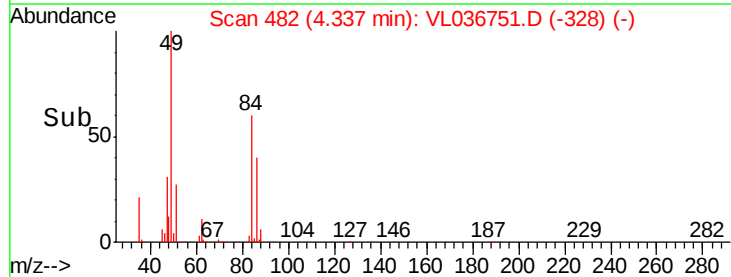
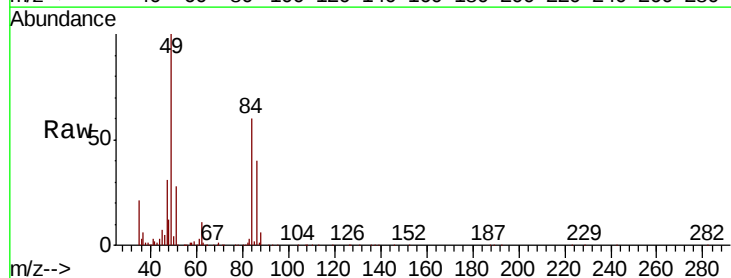
150000

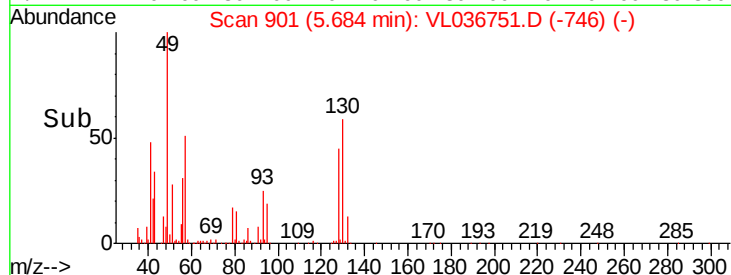
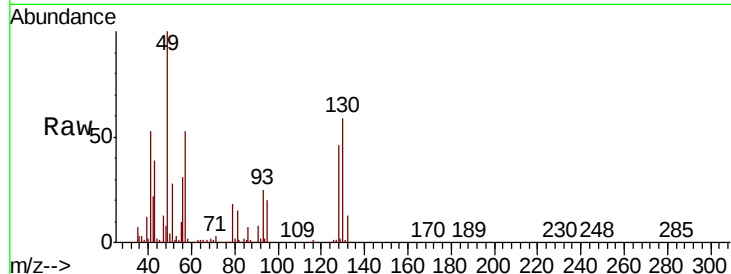
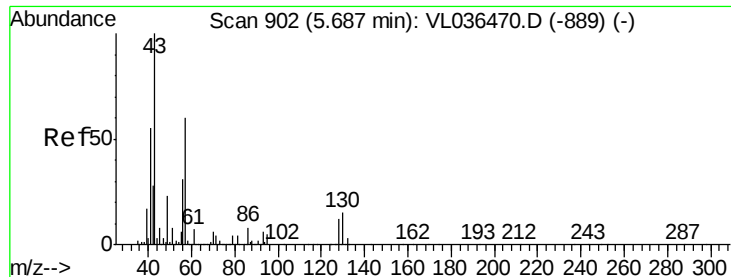
100000

50000

0

Time--> 4.30 4.35 4.40





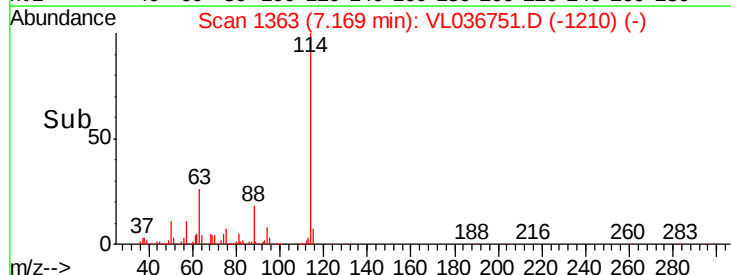
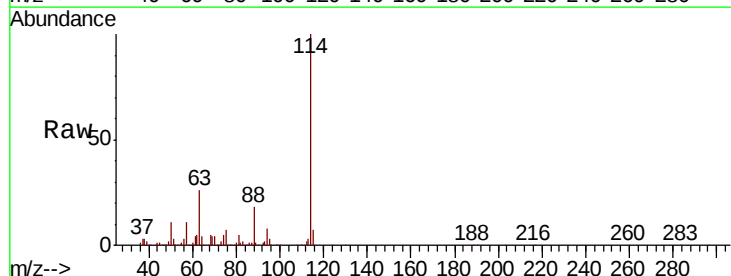
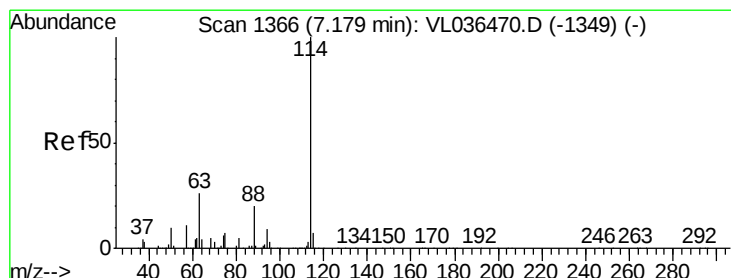
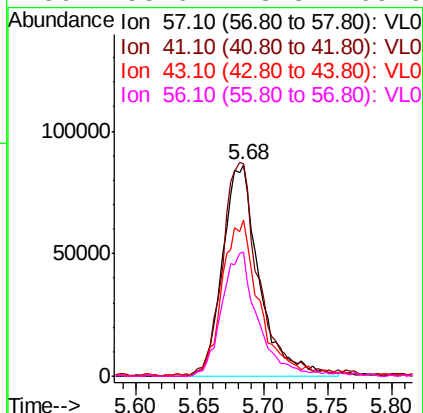
#26
Hexane
Concen: 1.355 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

Tot Ion	Ratio	Lower	Upper
57	100		
41	101.2	77.2	115.8
43	77.7	173.8	260.6#
56	58.6	43.8	65.6

Instrument :
MSVOA_L
ClientSampled :
SG-1DL

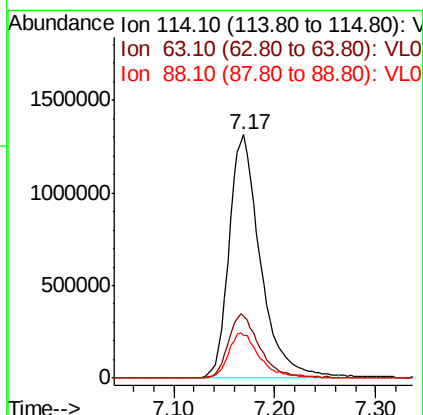
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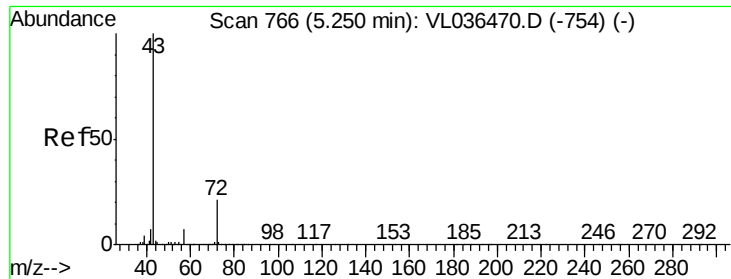
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	22.4	33.6
88	18.5	15.4	23.0





#34

2-Butanone

Concen: 0.379 ppbv

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 43 Resp: 52655

Ion Ratio Lower Upper

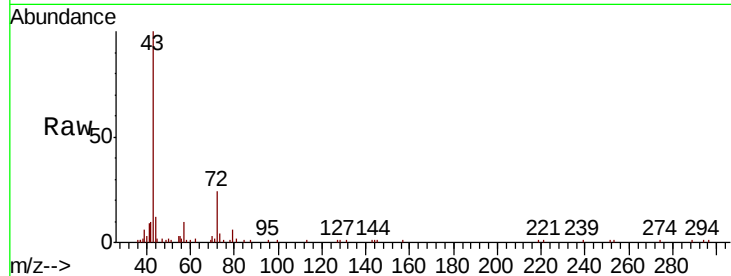
43 100

72 31.6 17.0 25.6#

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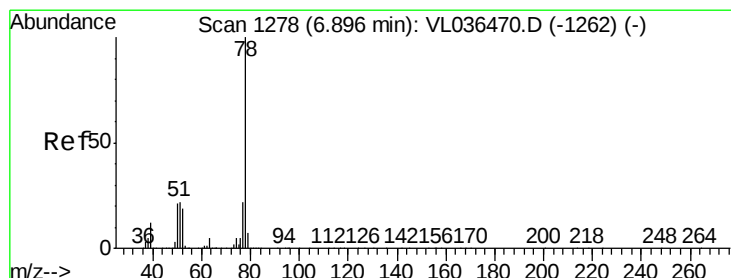
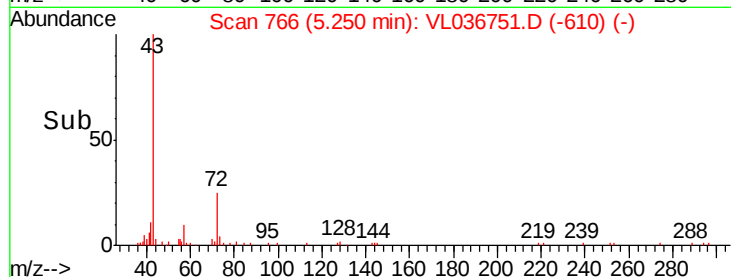
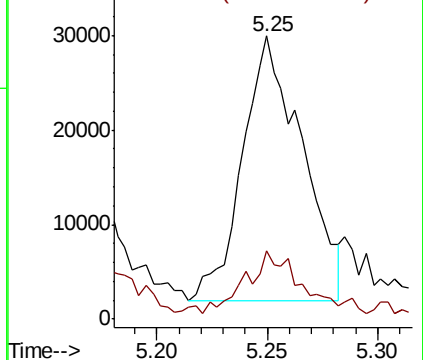
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.097 ppbv m

RT: 6.88 min Scan# 1273

Delta R.T. -0.02 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

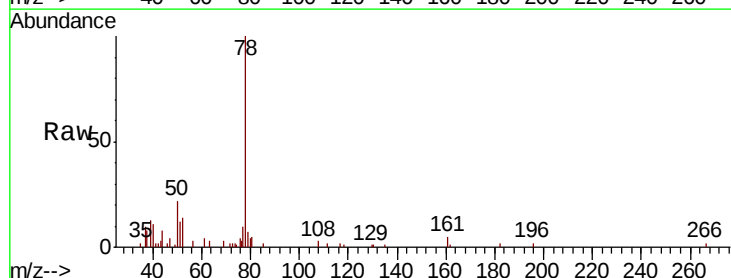
Tgt Ion: 78 Resp: 25375

Ion Ratio Lower Upper

78 100

77 9.6 18.0 27.0#

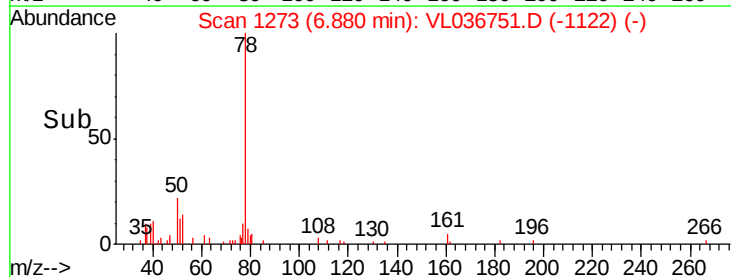
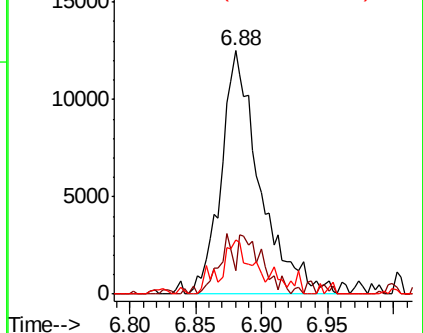
50 22.0 16.5 24.7

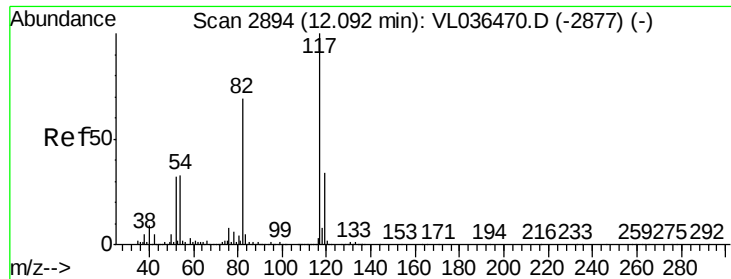


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion:117 Resp: 2423752

Ion Ratio Lower Upper

117 100

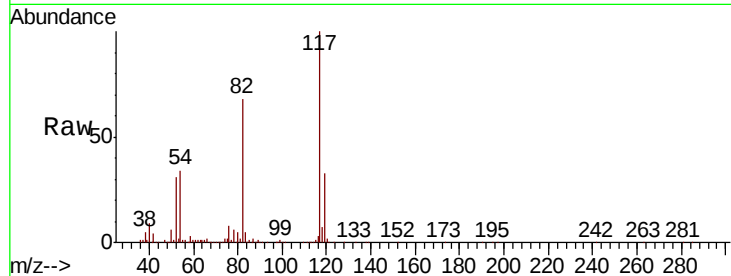
82 69.1 57.4 86.0

119 33.8 47.4 71.0#

Manual Integrations
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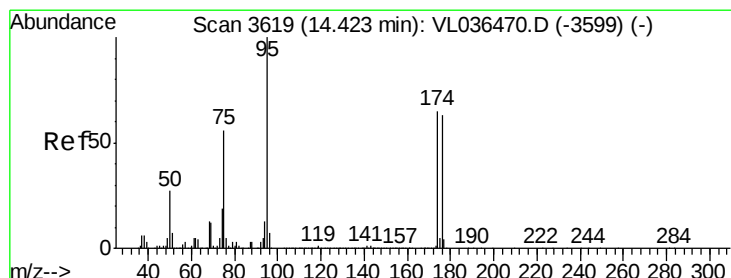
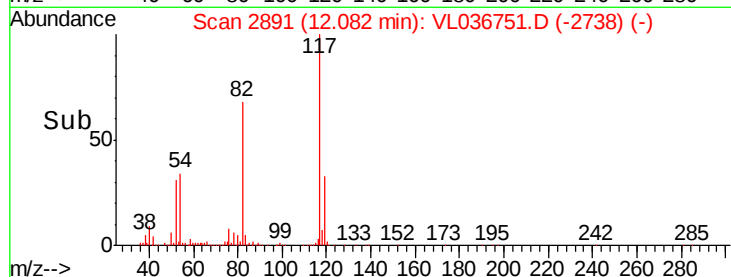
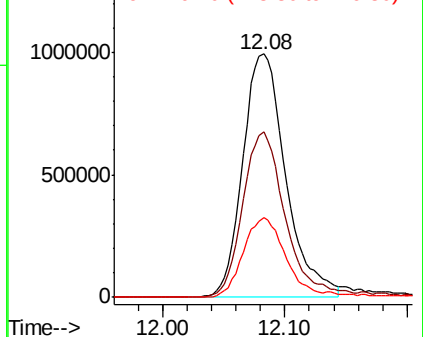
4/12/2021 11:46:44 AM



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: 9.192 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

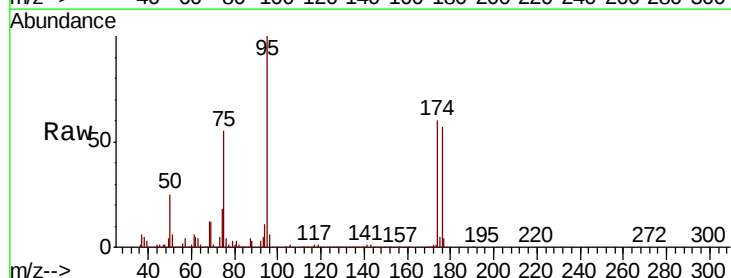
Tgt Ion: 95 Resp: 1775720

Ion Ratio Lower Upper

95 100

174 69.6 51.0 76.6

175 4.9 3.9 5.9



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

