

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036652.D
 Acq On : 2 Apr 2021 19:44
 Operator : SY/AP
 Sample : M1841-07DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PBS-SS-2DL

Manual Integrations
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Quant Time: Apr 04 16:47:21 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	5.65	49	1369548	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3469019	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3101608	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.40	95	2406239	9.73	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	45246m	0.555	ppbv	
10) Heptane	8.10	43	34962m	0.168	ppbv	
13) Ethanol	3.60	45	209734	21.591	ppbv	98
15) Acetone	3.84	43	3188367	23.653	ppbv	99
17) tert-Butyl alcohol	4.30	59	76349m	0.651	ppbv	
19) Isopropyl Alcohol	3.96	45	2016188	27.191	ppbv #	1
20) Methylene Chloride	4.33	84	207635	3.290	ppbv	88
26) Hexane	5.67	57	200504	1.348	ppbv #	48
34) 2-Butanone	5.24	43	153047	0.904	ppbv	97
52) Tetrachloroethene	11.20	164	11014m	0.093	ppbv	
53) Toluene	9.79	91	87268m	0.256	ppbv	
59) m/p-Xylene	12.95	91	152093m	0.386	ppbv	
60) o-Xylene	13.67	91	70353m	0.185	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	61147m	0.147	ppbv	

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

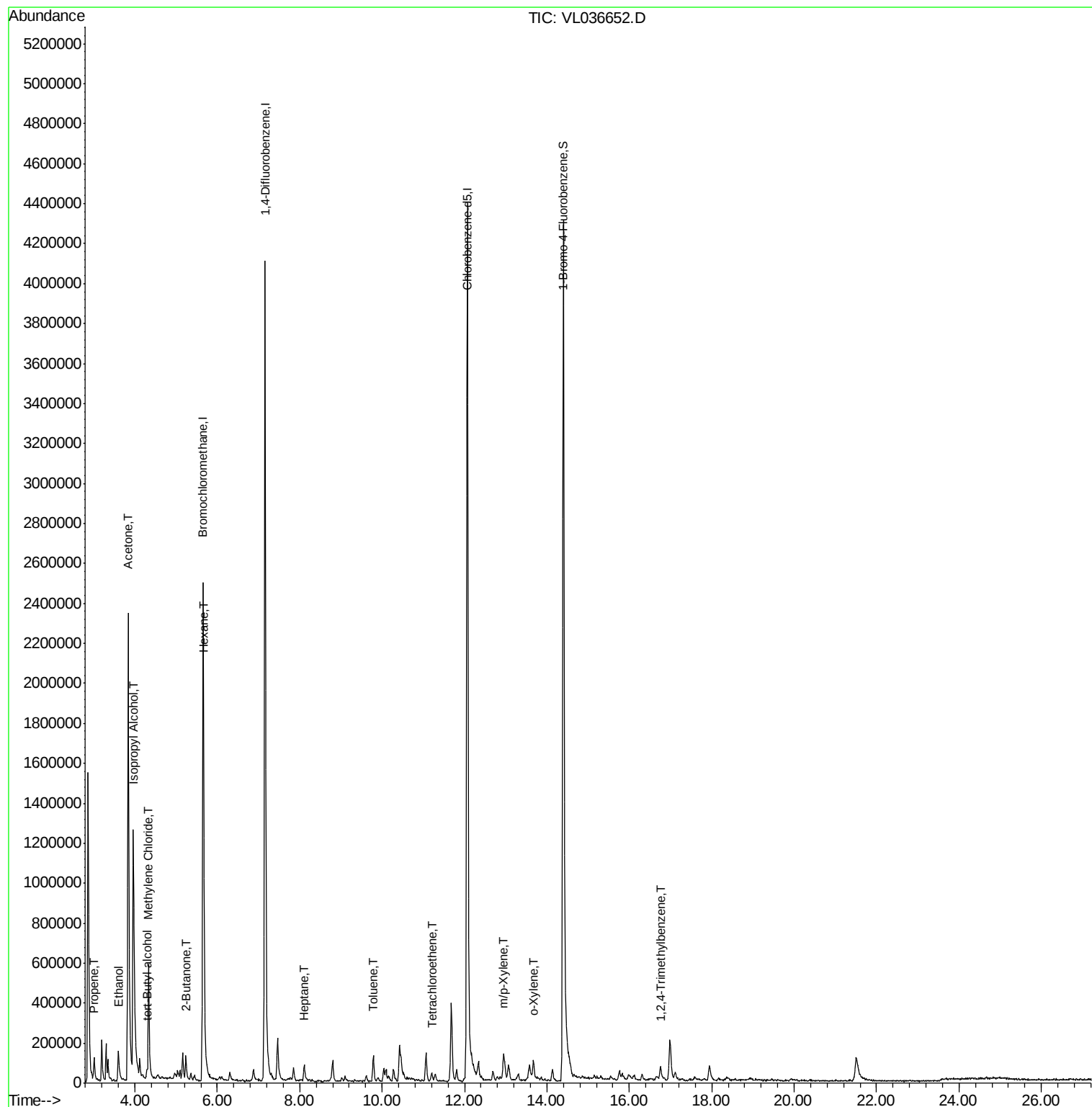
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040221\
Data File : VL036652.D
Acq On : 2 Apr 2021 19:44
Operator : SY/AP
Sample : M1841-07DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

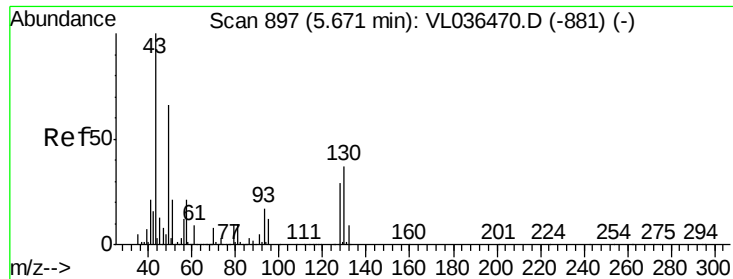
Instrument :
MSVOA_L
ClientSampleId :
PBS-SS-2DL

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Quant Time: Apr 04 16:47:21 2021
Quant Method : Z:\V0ASRV\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
Response via : Initial Calibration





#1

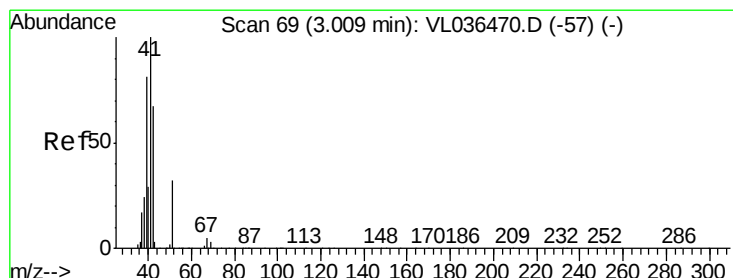
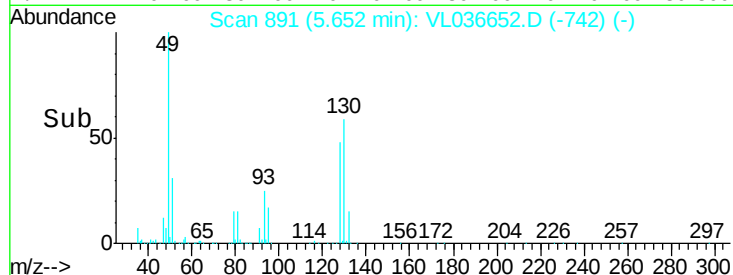
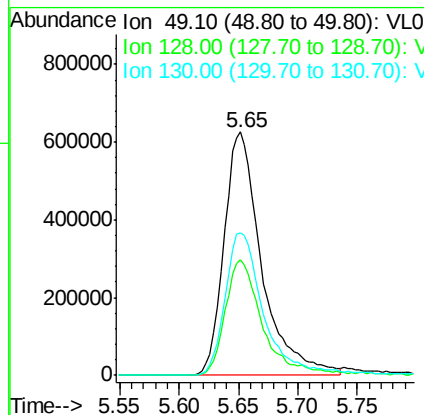
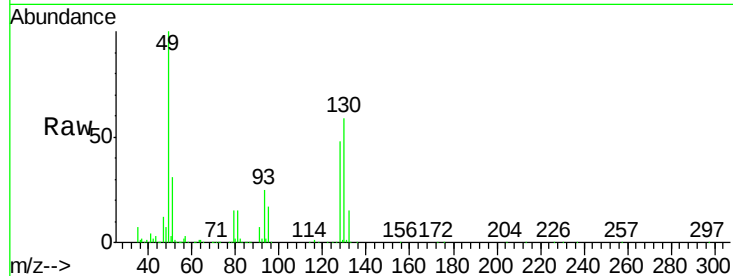
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. -0.02 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Instrument :
 MSVOA_L
 ClientSampleId :
 PBS-SS-2DL

Tot Ion: 49 Resp: 1369548
 Ion Ratio Lower Upper
 49 100
 128 47.9 23.5 70.6
 130 61.7 29.1 87.4

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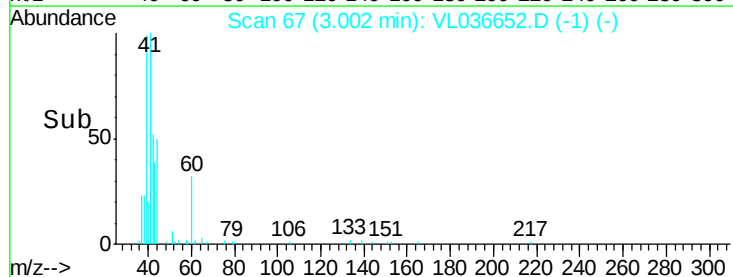
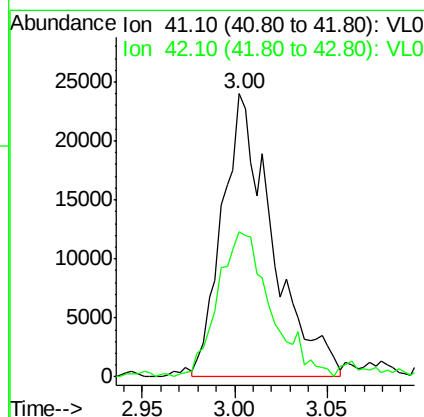
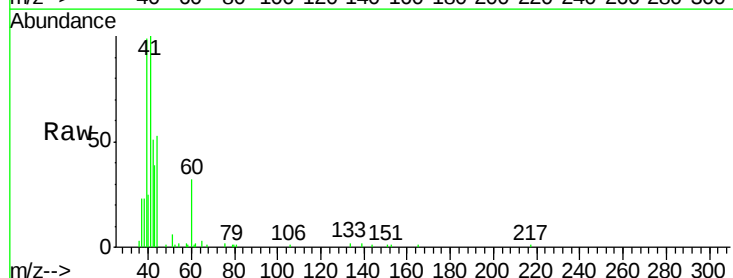
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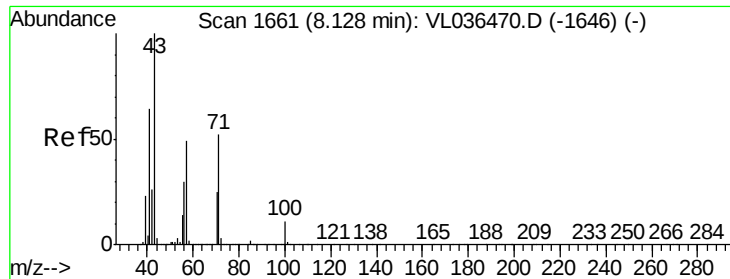


#9

Propene
 Concen: 0.555 ppbv m
 RT: 3.00 min Scan# 67
 Delta R.T. -0.01 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Tgt Ion: 41 Resp: 45246
 Ion Ratio Lower Upper
 41 100
 42 58.0 57.0 85.4





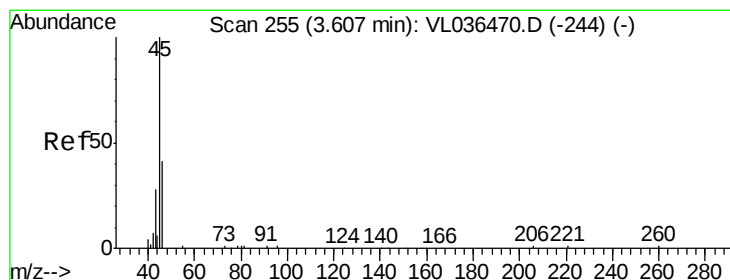
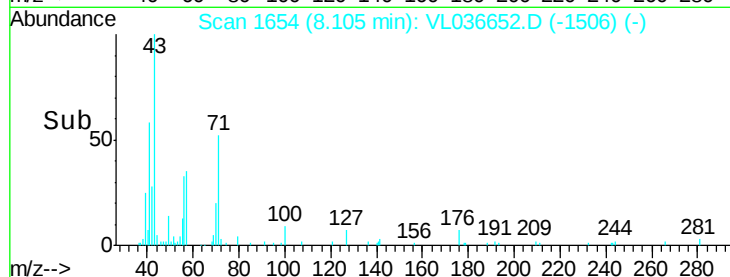
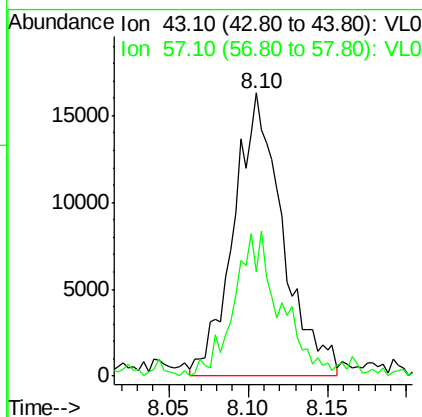
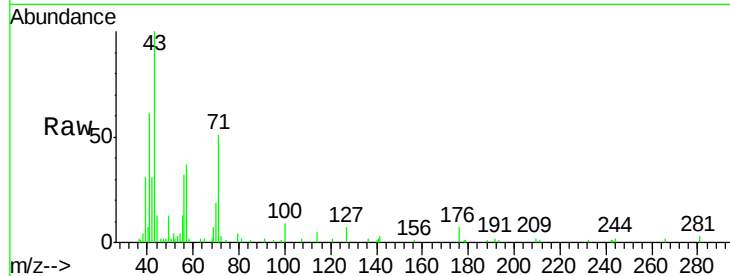
#10
Heptane
Concen: 0.168 ppbv m
RT: 8.10 min Scan# 1654
Delta R.T. -0.02 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Instrument :
MSVOA_L
ClientSampleId :
PBS-SS-2DL

Tot Ion: 43 Resp: 34962
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#

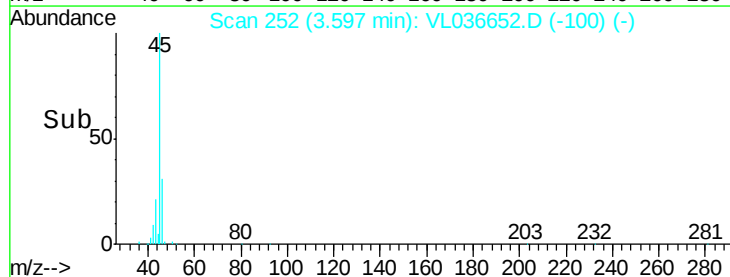
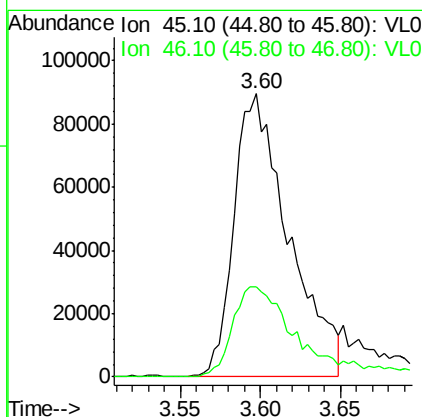
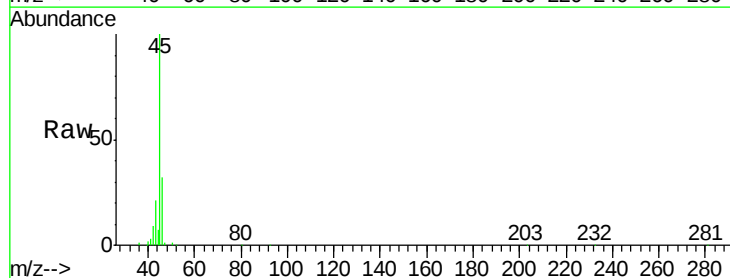
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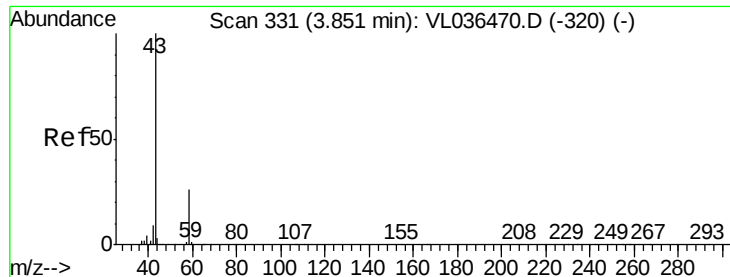
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#13
Ethanol
Concen: 21.591 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Tgt Ion: 45 Resp: 209734
Ion Ratio Lower Upper
45 100
46 40.2 16.6 66.2





#15

Acetone

Concen: 23.653 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036652.D

Acq: 2 Apr 2021 19:44

Instrument :

MSVOA_L

ClientSampleId :

PBS-SS-2DL

Tot Ion: 43 Resp: 3188367

Ion Ratio Lower Upper

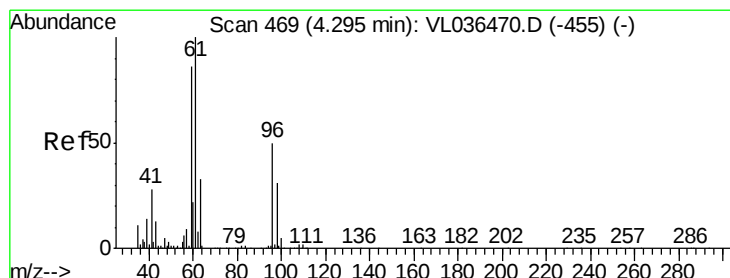
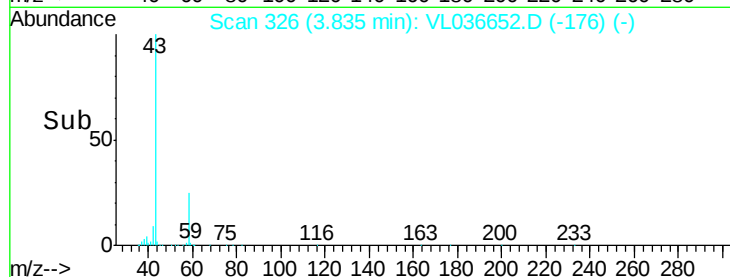
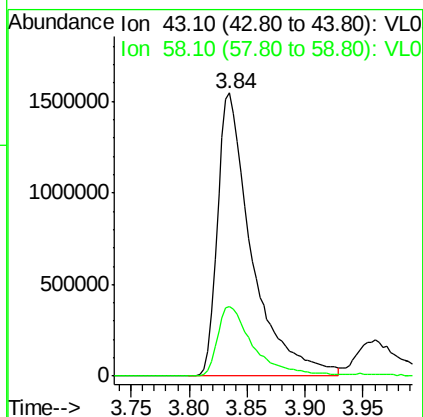
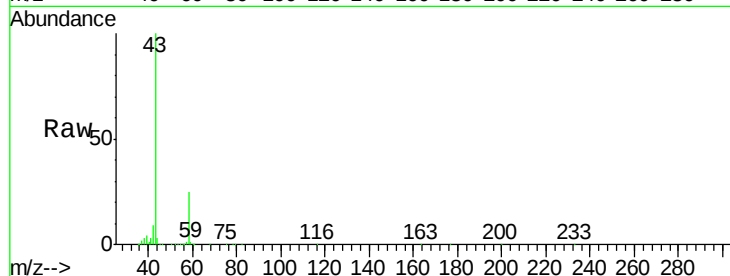
43 100

58 26.1 21.2 31.8

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#17

tert-Butyl alcohol

Concen: 0.651 ppbv m

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL036652.D

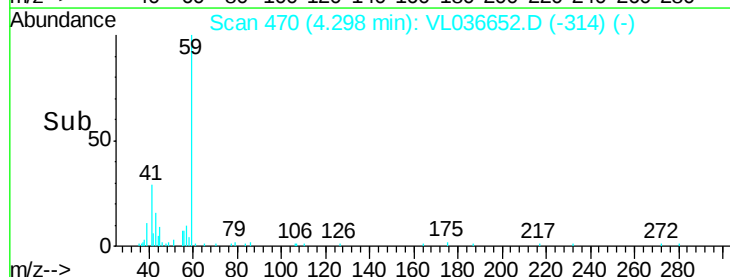
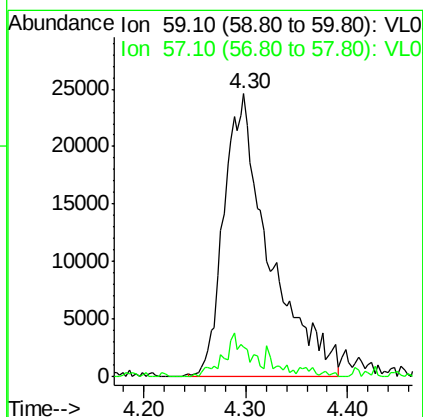
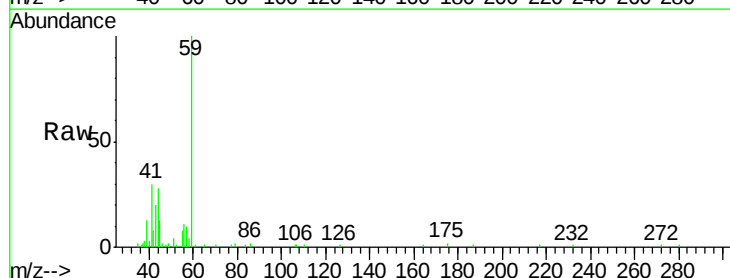
Acq: 2 Apr 2021 19:44

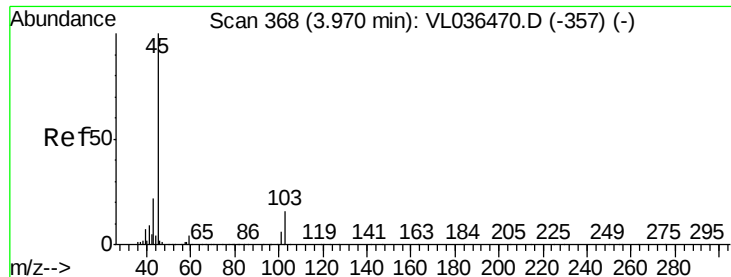
Tgt Ion: 59 Resp: 76349

Ion Ratio Lower Upper

59 100

57 12.4 8.6 12.8





#19

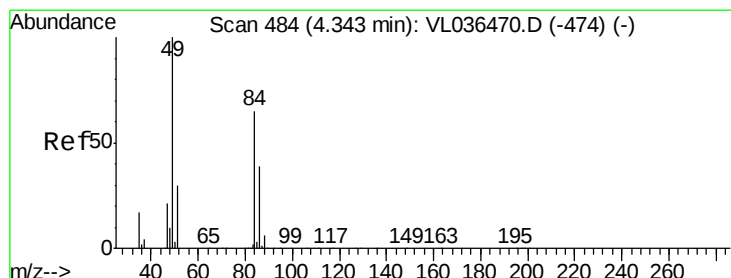
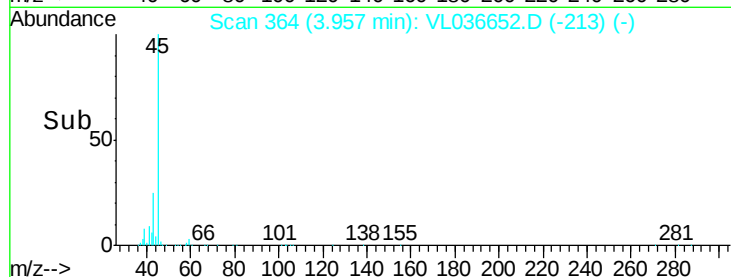
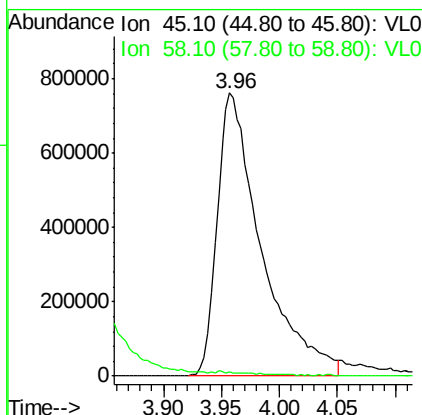
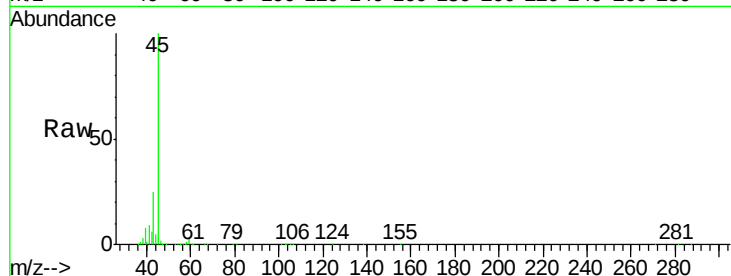
Isopropyl Alcohol
 Concen: 27.191 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.01 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Instrument :
 MSVOA_L
 ClientSampleId :
 PBS-SS-2DL

Tot Ion: 45 Resp: 2016188
 Ion Ratio Lower Upper
 45 100
 58 42.7 2.9 4.3#

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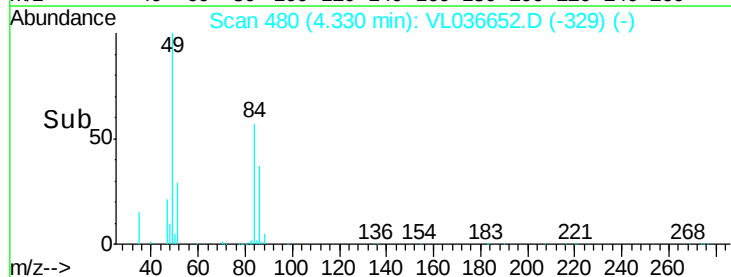
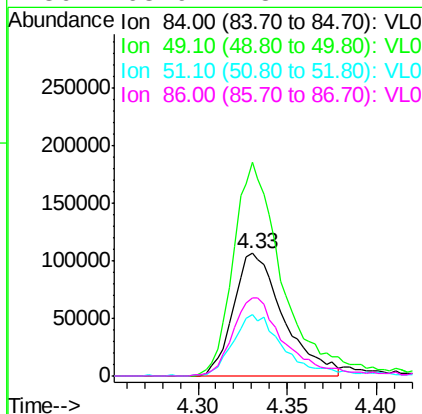
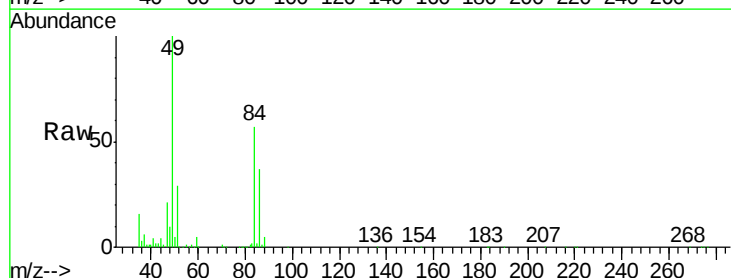
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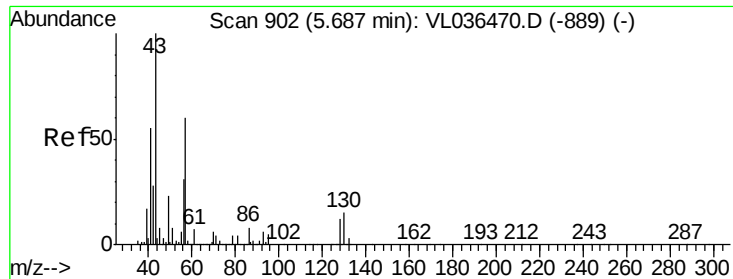


#20

Methylene Chloride
 Concen: 3.290 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Tgt Ion: 84 Resp: 207635
 Ion Ratio Lower Upper
 84 100
 49 174.3 122.9 184.3
 51 50.3 36.9 55.3
 86 63.9 48.2 72.4





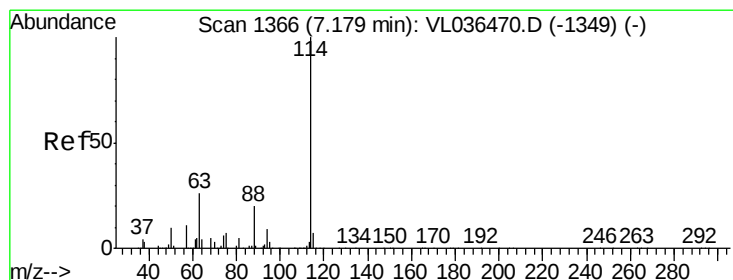
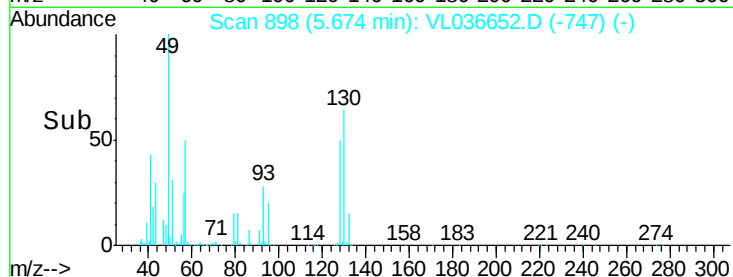
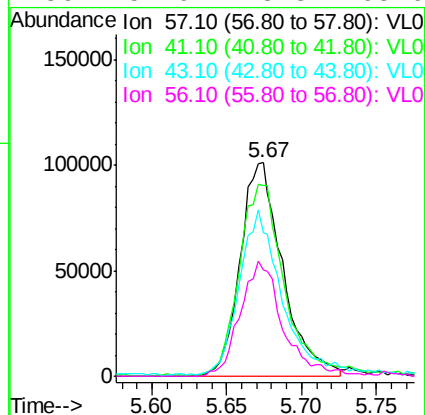
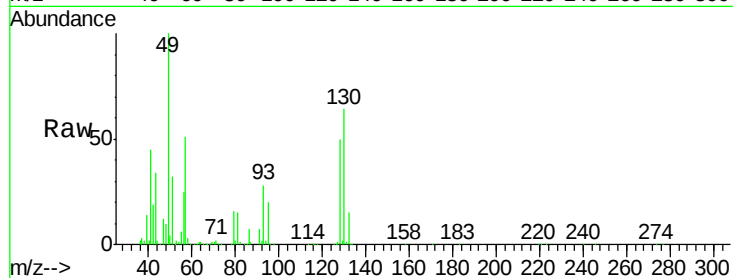
#26
Hexane
Concen: 1.348 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Instrument :
MSVOA_L
ClientSampleId :
PBS-SS-2DL

Tot Ion	57	Resp	200504
Ion Ratio	Lower	Upper	
57	100		
41	99.2	77.2	115.8
43	79.3	173.8	260.6#
56	54.9	43.8	65.6

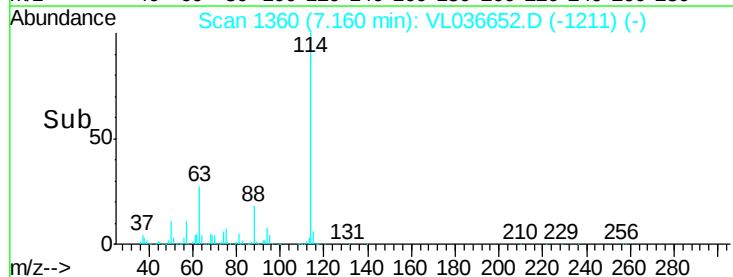
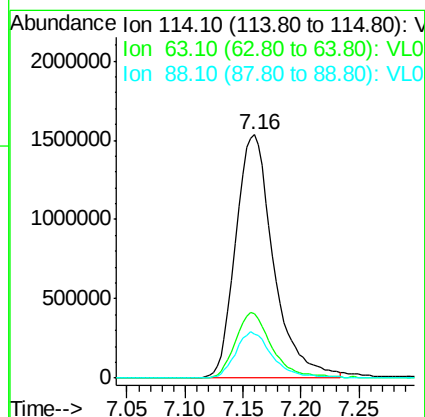
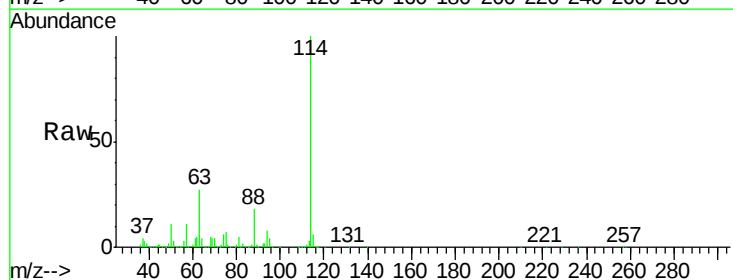
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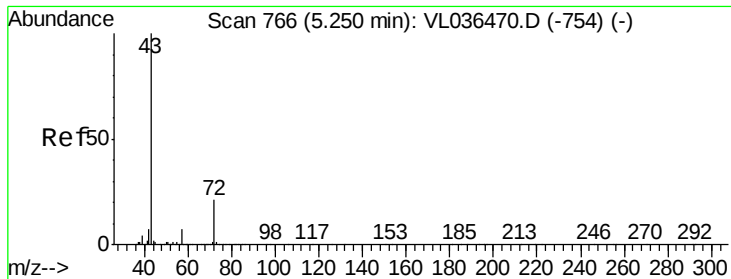
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Tgt Ion	114	Resp	3469019
Ion Ratio	Lower	Upper	
114	100		
63	26.7	22.4	33.6
88	19.0	15.4	23.0





#34

2-Butanone

Concen: 0.904 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL036652.D

Acq: 2 Apr 2021 19:44

Instrument :

MSVOA_L

ClientSampleId :

PBS-SS-2DL

Tot Ion: 43 Resp: 153047

Ion Ratio Lower Upper

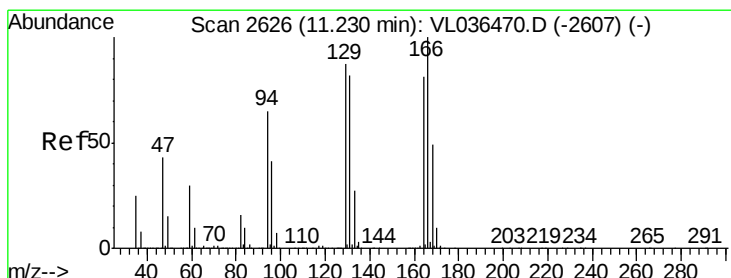
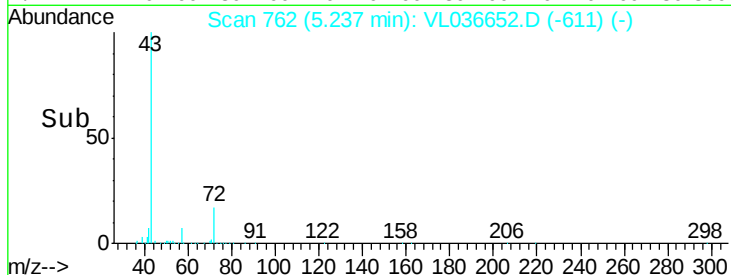
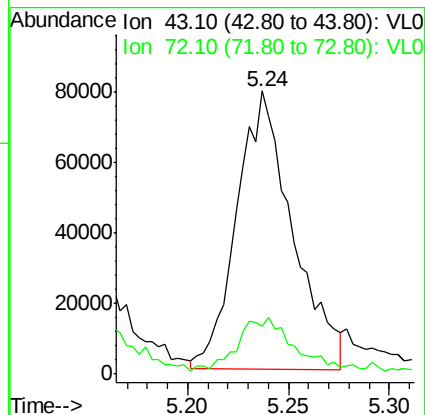
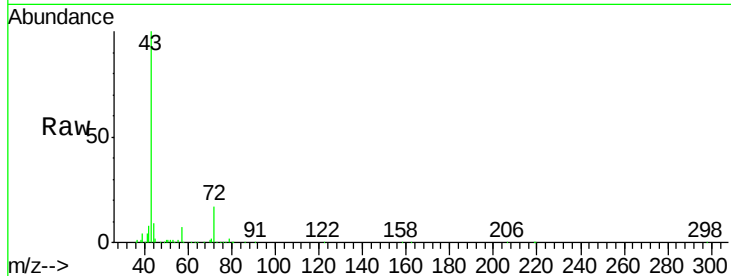
43 100

72 22.9 17.0 25.6

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#52

Tetrachloroethene

Concen: 0.093 ppbv m

RT: 11.20 min Scan# 2617

Delta R.T. -0.03 min

Lab File: VL036652.D

Acq: 2 Apr 2021 19:44

Tgt Ion: 164 Resp: 11014

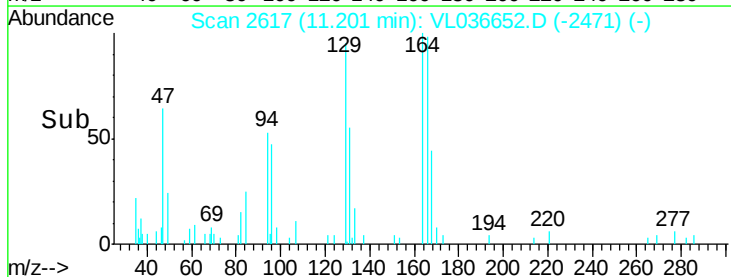
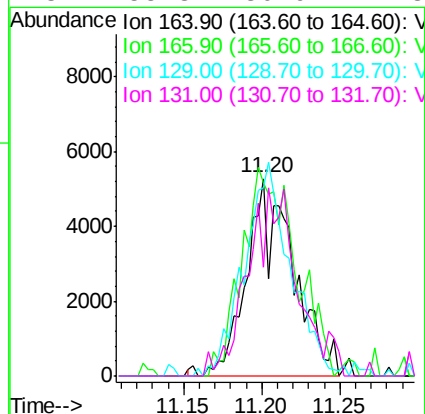
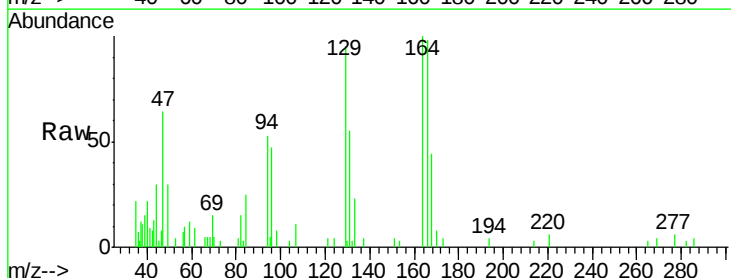
Ion Ratio Lower Upper

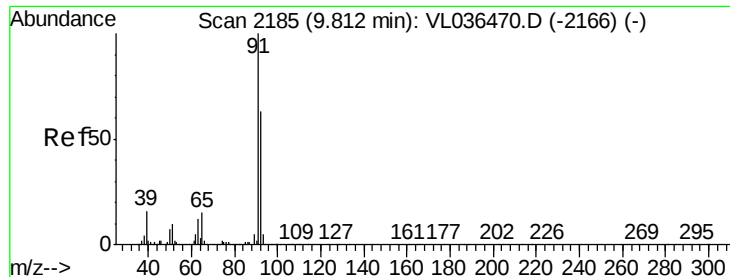
164 100

166 97.7 98.3 147.5#

129 95.2 85.8 128.8

131 55.3 80.9 121.3#





#53

Toluene

Concen: 0.256 ppbv m

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL036652.D

Acq: 2 Apr 2021 19:44

Instrument :

MSVOA_L

ClientSampleId :

PBS-SS-2DL

Tot Ion: 91 Resp: 87268

Ion Ratio Lower Upper

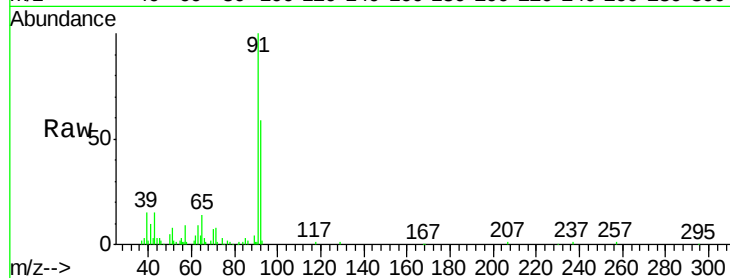
91 100

92 63.1 48.8 73.2

Manual Integrations
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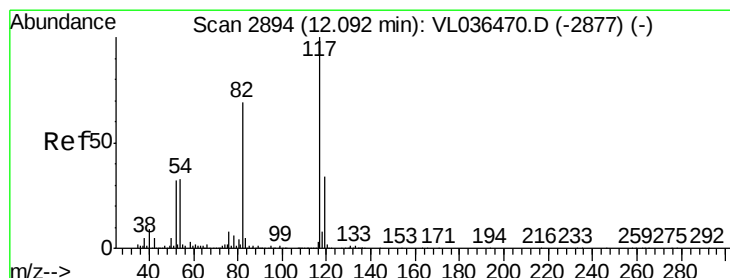
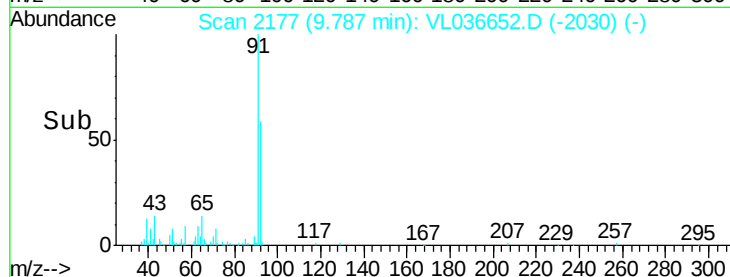
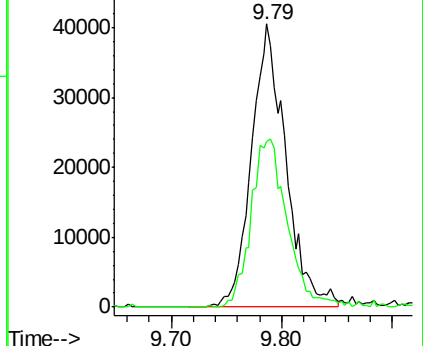
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.02 min

Lab File: VL036652.D

Acq: 2 Apr 2021 19:44

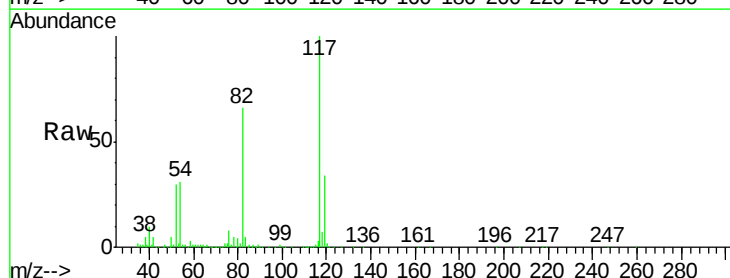
Tgt Ion: 117 Resp: 3101608

Ion Ratio Lower Upper

117 100

82 68.6 57.4 86.0

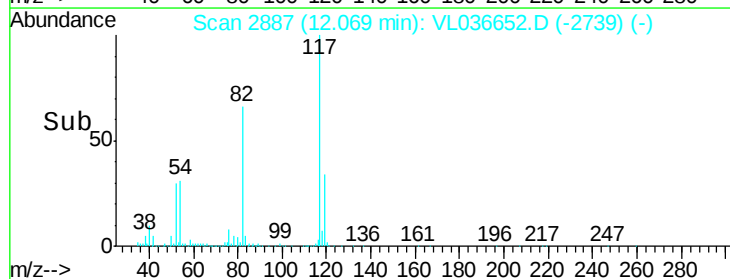
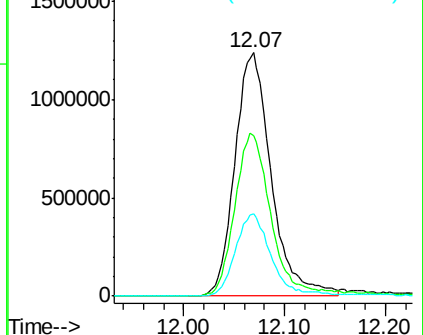
119 34.3 47.4 71.0#

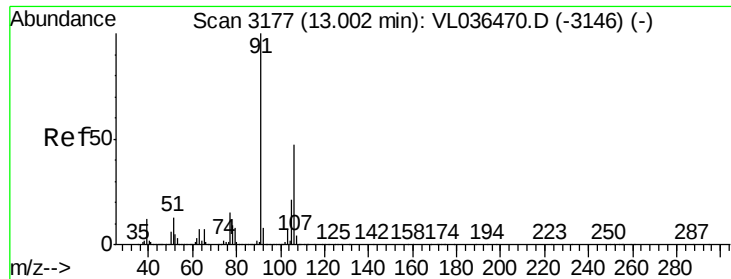


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





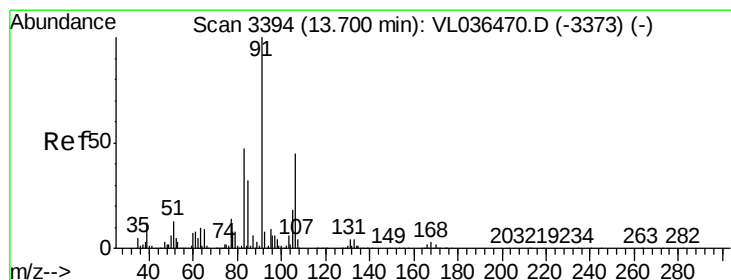
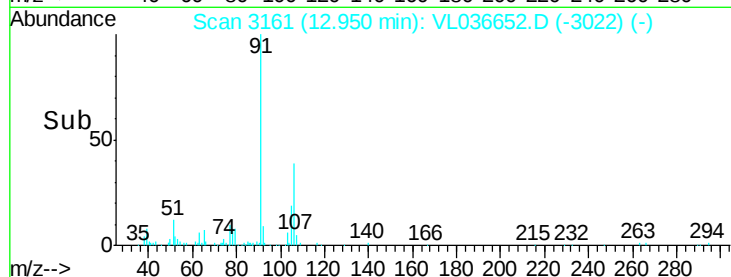
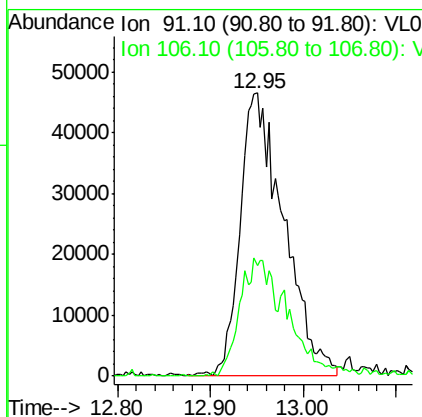
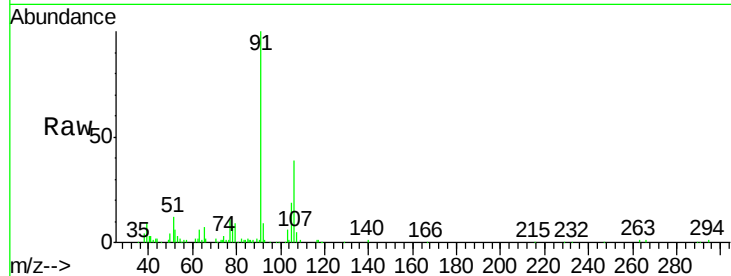
#59
m/p-Xylene
Concen: 0.386 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.05 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Instrument :
MSVOA_L
ClientSampled :
PBS-SS-2DL

Tot Ion: 91 Resp: 152093
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

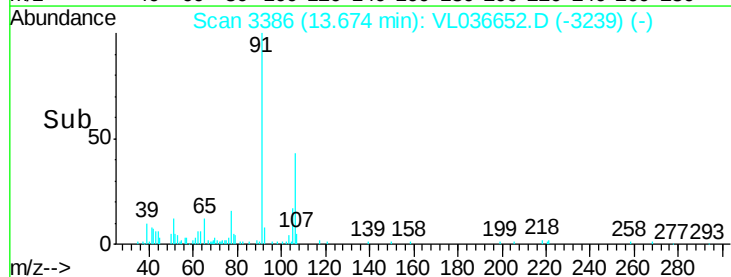
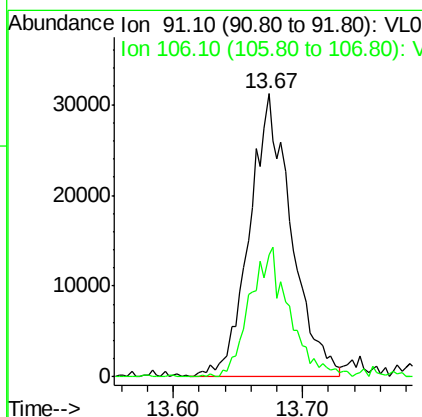
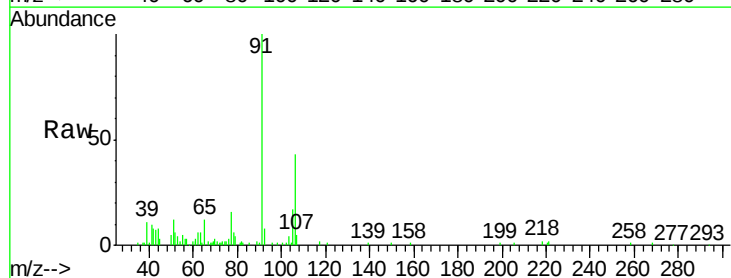
Manual Integrations
APPROVED

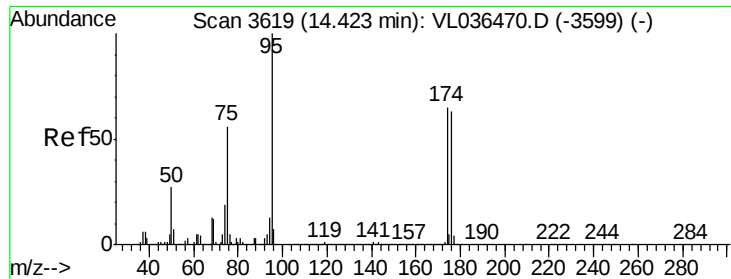
apatel
4/5/2021 1:14:06 PM



#60
o-Xylene
Concen: 0.185 ppbv m
RT: 13.67 min Scan# 3386
Delta R.T. -0.03 min
Lab File: VL036652.D
Acq: 2 Apr 2021 19:44

Tgt Ion: 91 Resp: 70353
Ion Ratio Lower Upper
91 100
106 43.4 22.3 66.9





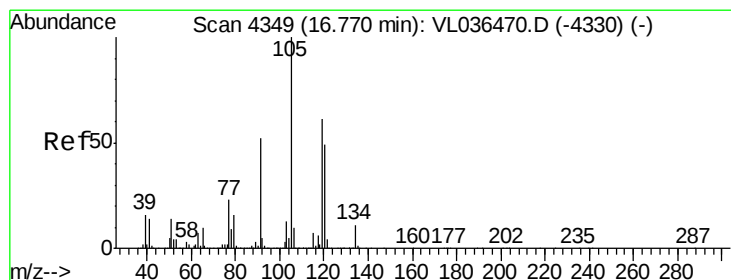
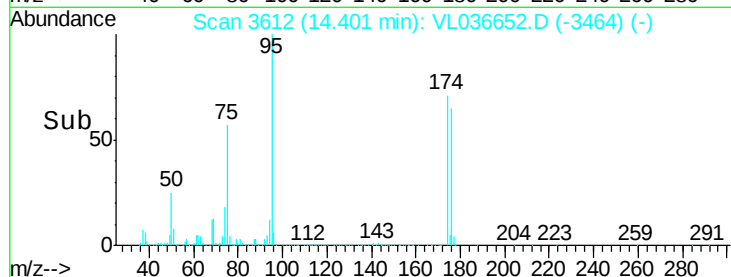
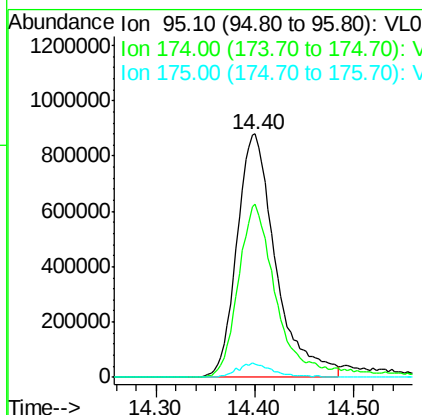
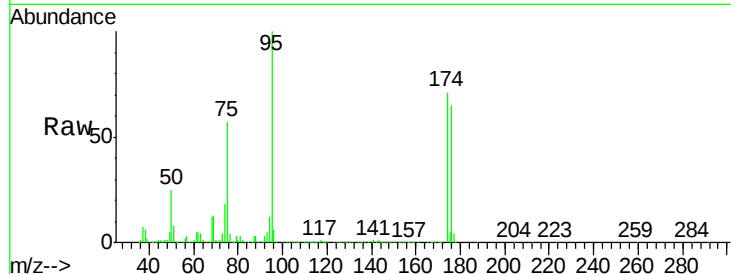
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.734 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.02 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Instrument :
 MSVOA_L
 ClientSampleId :
 PBS-SS-2DL

Tot Ion: 95 Resp: 2406239
 Ion Ratio Lower Upper
 95 100
 174 73.0 51.0 76.6
 175 5.7 3.9 5.9

Manual Integrations
 APPROVED

apatel
 4/5/2021 1:14:06 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv m
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL036652.D
 Acq: 2 Apr 2021 19:44

Tgt Ion:105 Resp: 61147
 Ion Ratio Lower Upper
 105 100
 120 42.9 39.2 58.8
 91 18.7 42.6 64.0#
 77 15.0 18.6 28.0#

