

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036105.D
 Acq On : 8 Dec 2020 21:46
 Operator : SY/AP
 Sample : L4949-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 12:23:18 PM

Quant Time: Dec 09 22:35:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1196039	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2616349	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2350710	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1999244	10.71	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.61	45	133721m	14.190	ppbv	
15) Acetone	3.85	43	4108975	28.585	ppbv	96
19) Isopropyl Alcohol	3.98	45	324549m	3.694	ppbv	
25) Ethyl Acetate	5.68	43	1002951	3.493	ppbv #	91
34) 2-Butanone	5.25	43	1478643	8.520	ppbv	100
41) Tetrahydrofuran	6.06	42	341873m	3.316	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	460295	1.146	ppbv #	70
50) 4-Methyl-2-Pentanone	8.75	43	182826	0.706	ppbv	99
53) Toluene	9.82	91	5028153	20.195	ppbv	97
58) Ethyl Benzene	12.72	91	470914	1.462	ppbv	96
59) m/p-Xylene	12.98	91	1457595	5.372	ppbv	96
60) o-Xylene	13.70	91	433819	1.697	ppbv	98
64) n-propylbenzene	15.58	120	49531m	0.543	ppbv	
65) tert-Butylbenzene	16.78	119	75808	0.244	ppbv #	59
72) 4-Ethyltoluene	15.86	105	296191	1.070	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	274416	1.038	ppbv	99
74) 1,2,4-Trimethylbenzene	16.78	105	753094	2.837	ppbv #	62

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

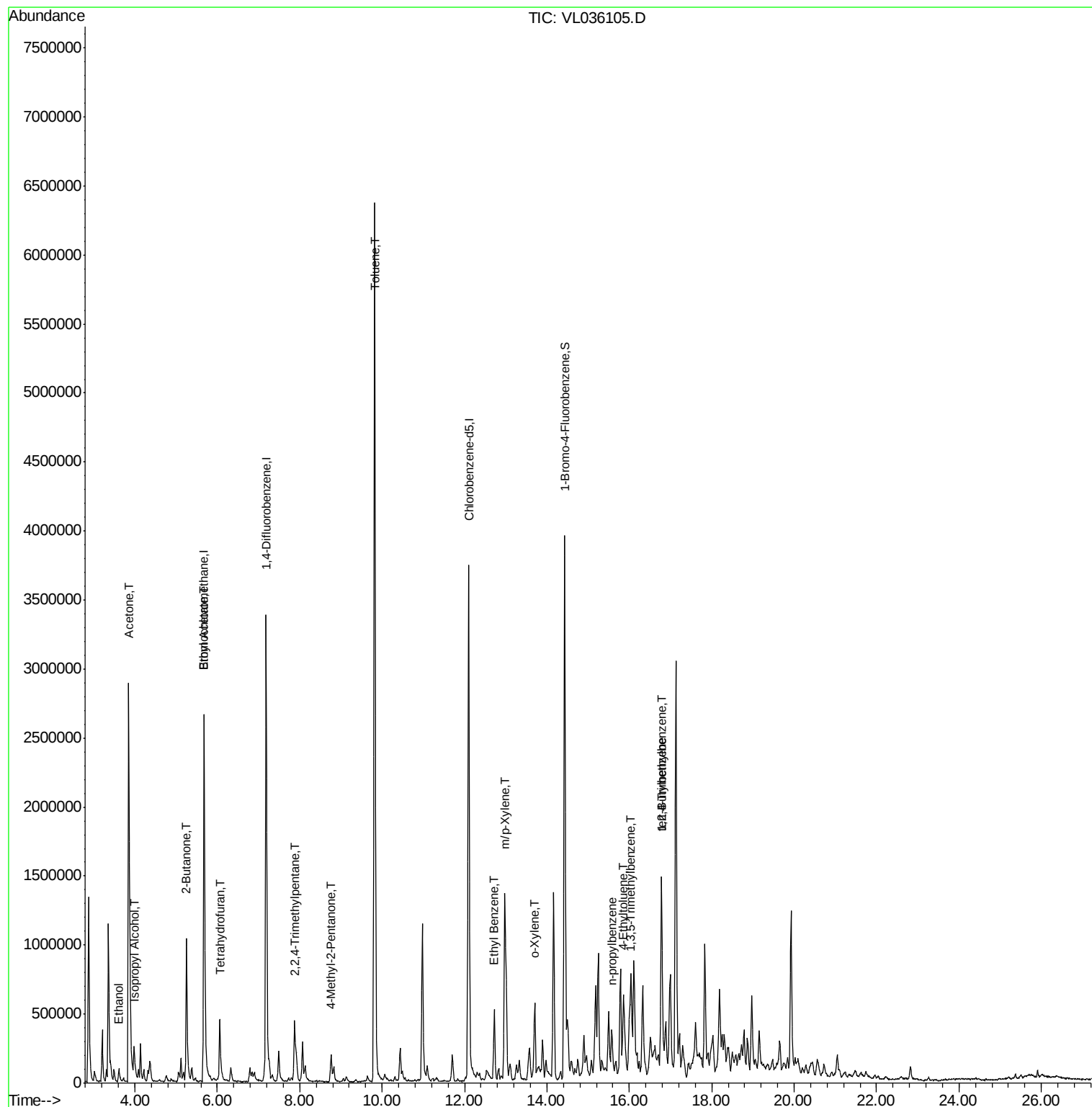
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036105.D
Acq On : 8 Dec 2020 21:46
Operator : SY/AP
Sample : L4949-04DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

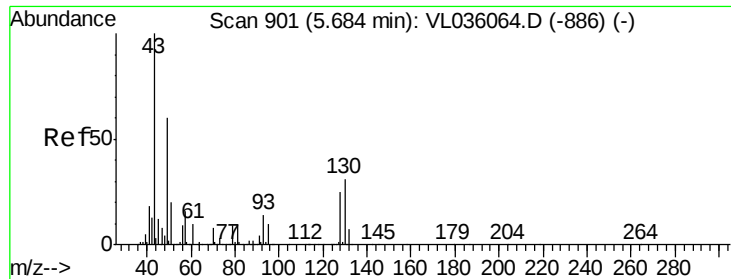
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Manual Integrations
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12/11/2020 12:23:18 PM

Quant Time: Dec 09 22:35:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 49 Resp: 1196039

Ion Ratio Lower Upper

49 100

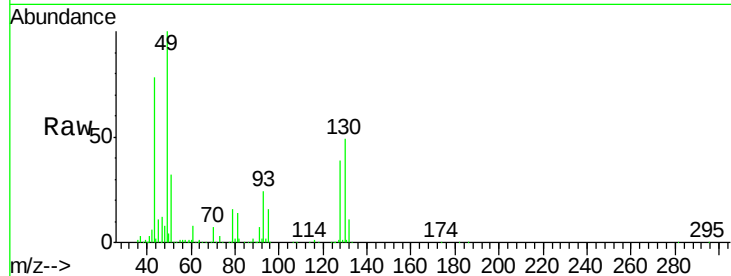
128 38.6 21.1 63.1

130 49.3 27.1 81.3

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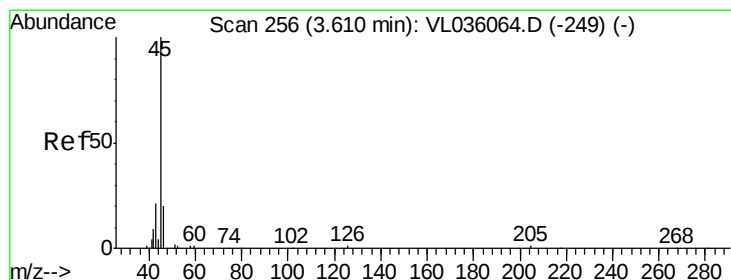
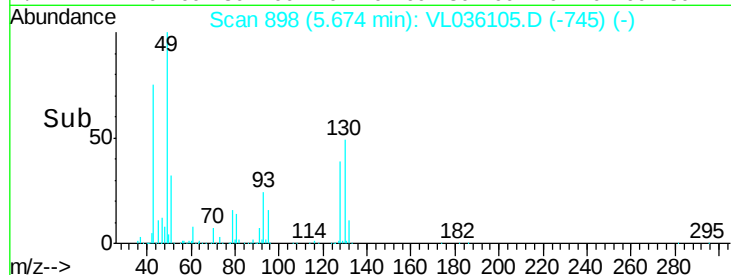
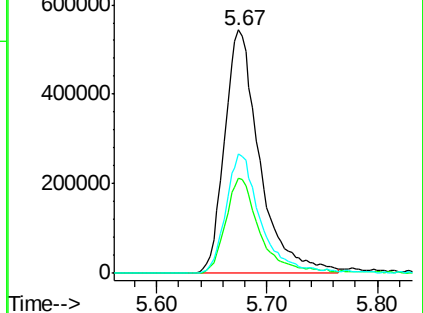
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#13

Ethanol

Concen: 14.190 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036105.D

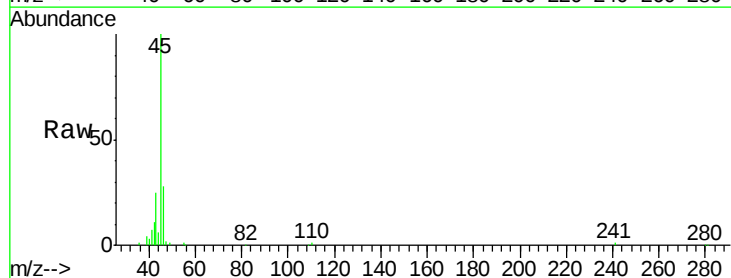
Acq: 8 Dec 2020 21:46

Tgt Ion: 45 Resp: 133721

Ion Ratio Lower Upper

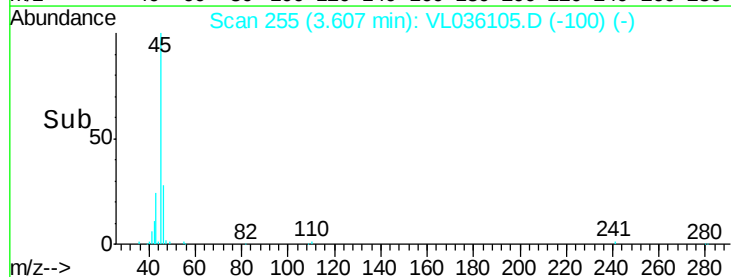
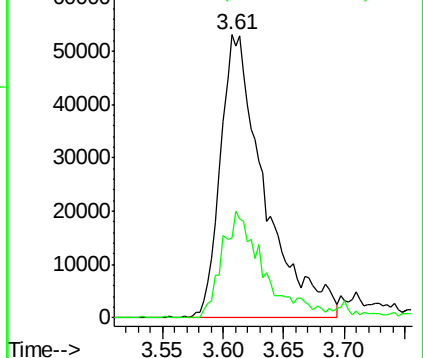
45 100

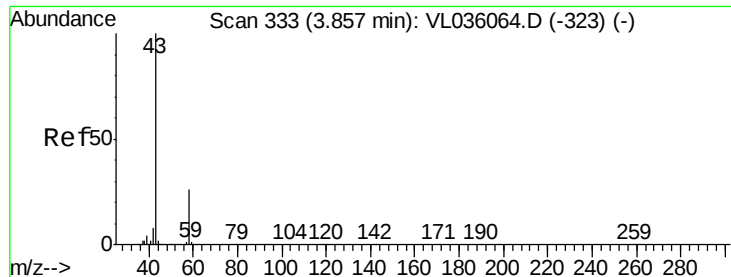
46 35.2 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 28.585 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 43 Resp: 4108975

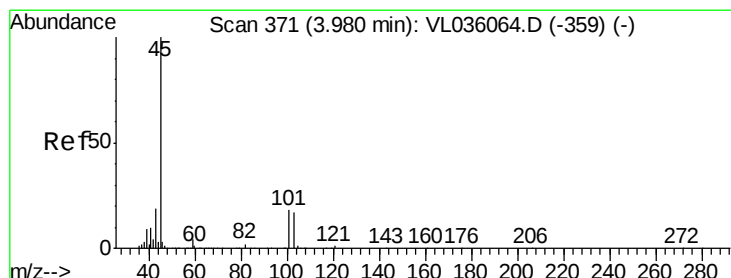
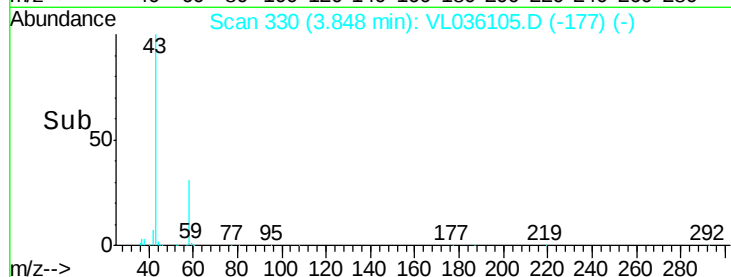
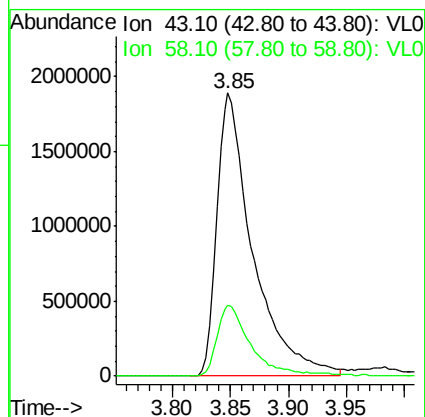
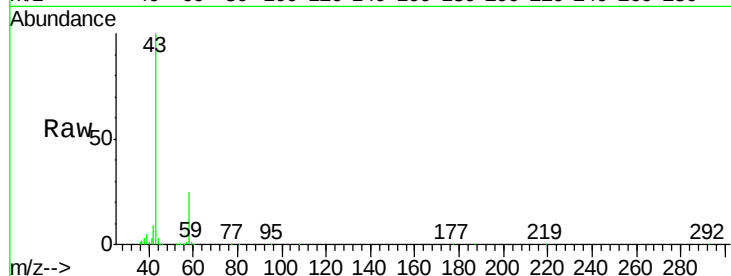
Ion Ratio Lower Upper

43 100

58 24.3 20.9 31.3

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#19

Isopropyl Alcohol

Concen: 3.694 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL036105.D

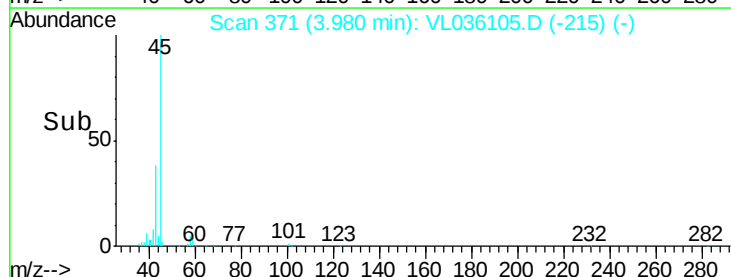
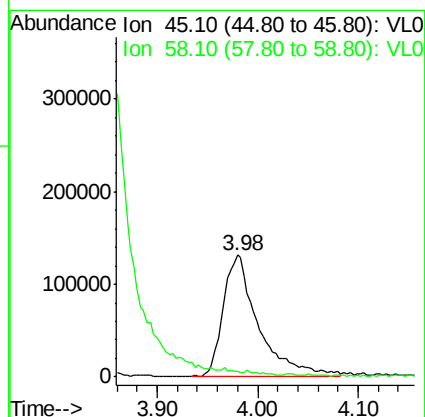
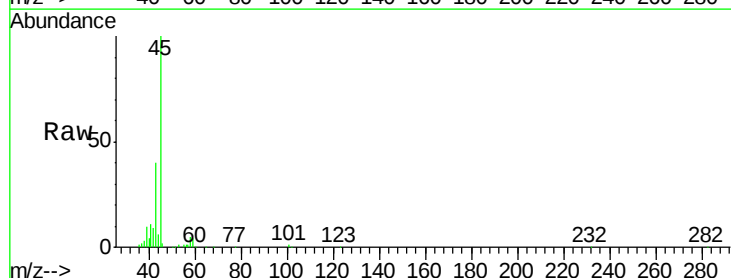
Acq: 8 Dec 2020 21:46

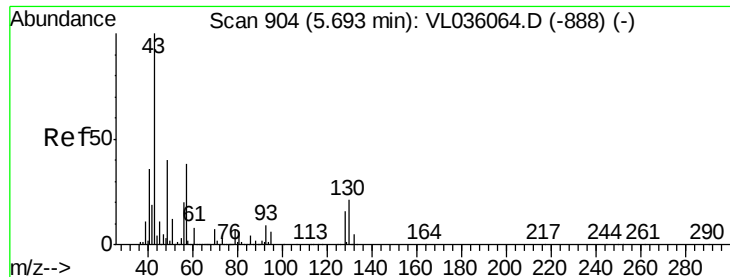
Tgt Ion: 45 Resp: 324549

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0





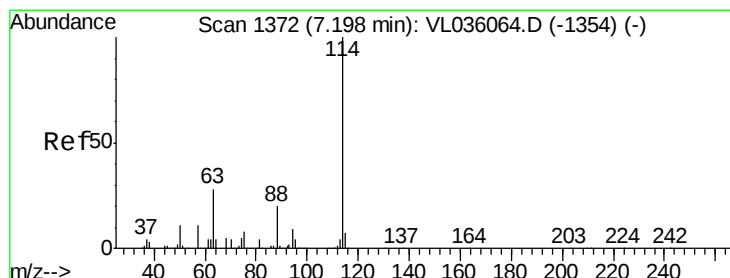
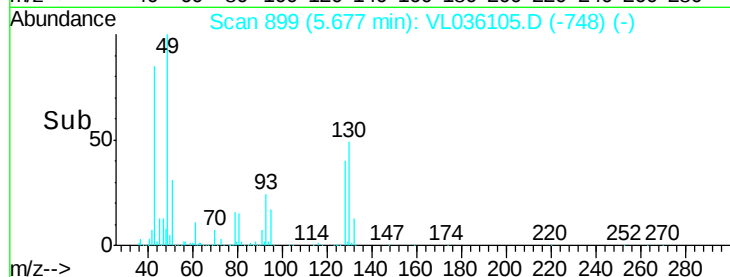
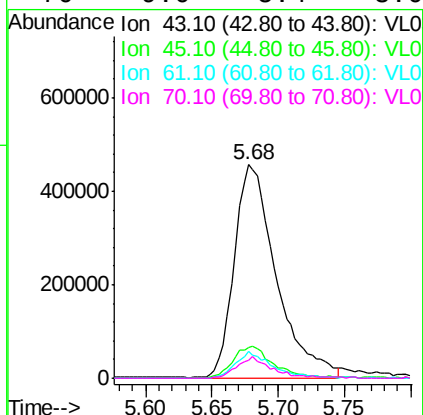
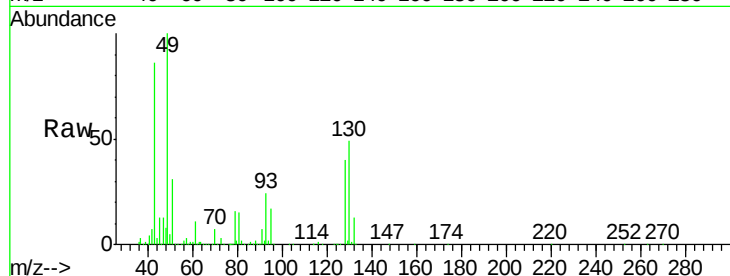
#25
Ethyl Acetate
Concen: 3.493 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 43 Resp: 1002951
Ion Ratio Lower Upper
43 100
45 15.3 8.2 12.4#
61 11.6 7.4 11.2#
70 9.0 5.4 8.0#

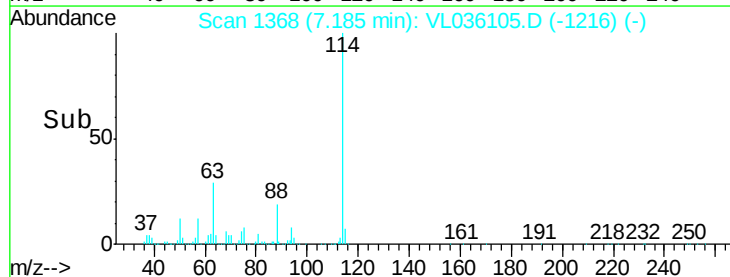
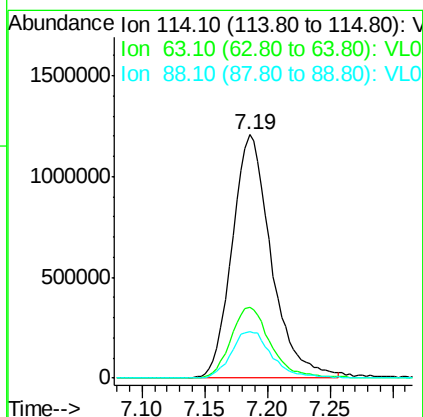
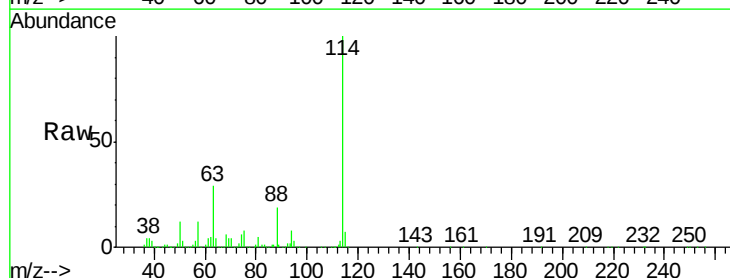
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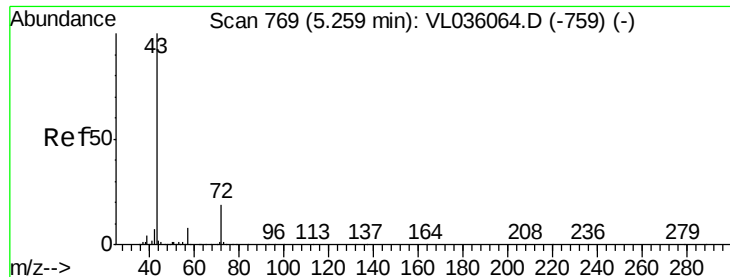
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Tgt Ion: 114 Resp: 2616349
Ion Ratio Lower Upper
114 100
63 30.1 23.6 35.4
88 20.2 15.8 23.6





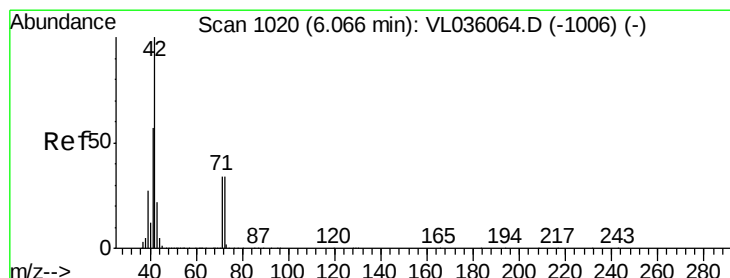
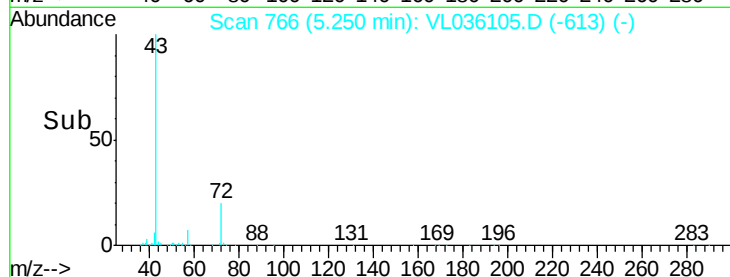
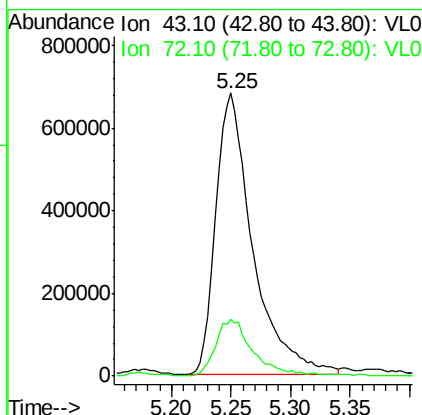
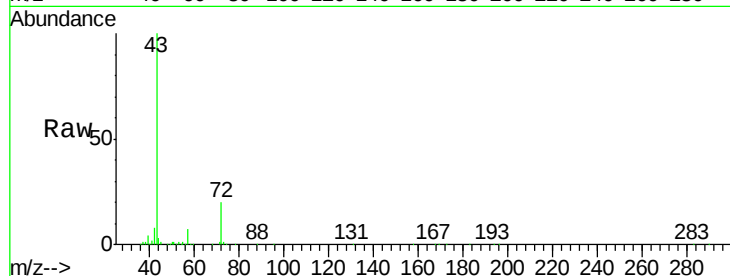
#34
2-Butanone
Concen: 8.520 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.01 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion: 43 Resp: 1478643
Ion Ratio Lower Upper
43 100
72 20.6 16.5 24.7

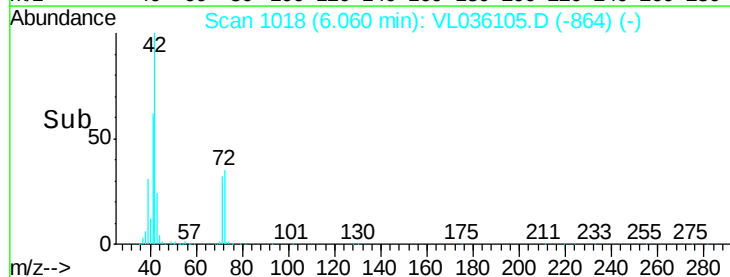
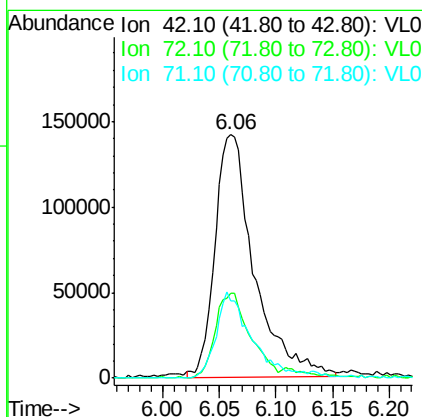
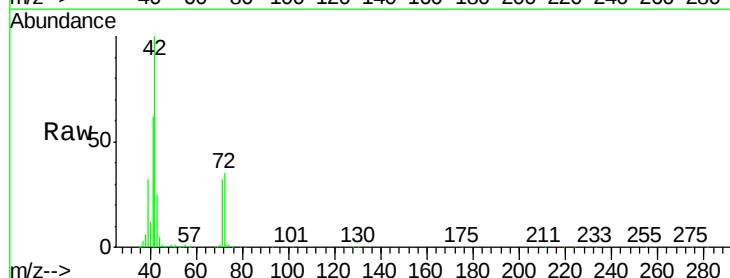
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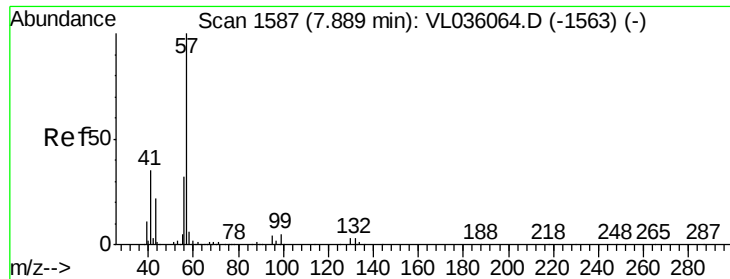
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#41
Tetrahydrofuran
Concen: 3.316 ppbv m
RT: 6.06 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Tgt Ion: 42 Resp: 341873
Ion Ratio Lower Upper
42 100
72 34.7 28.3 42.5
71 33.0 27.3 40.9





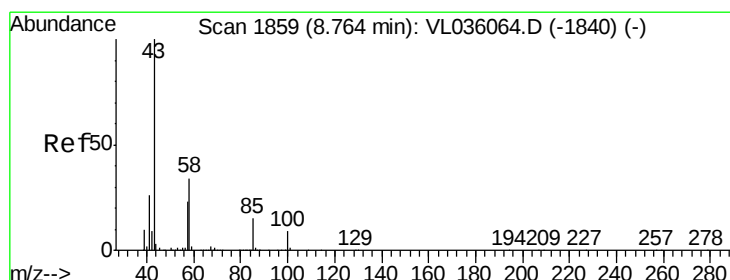
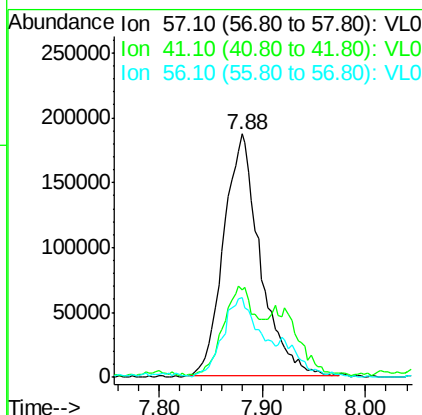
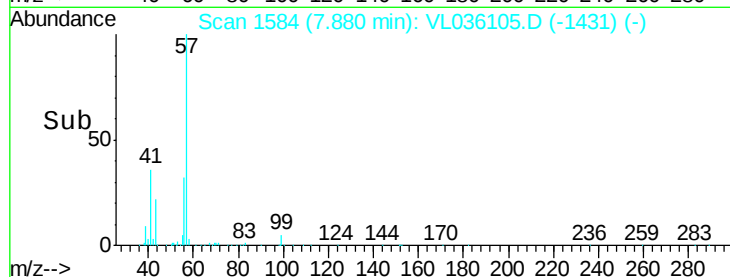
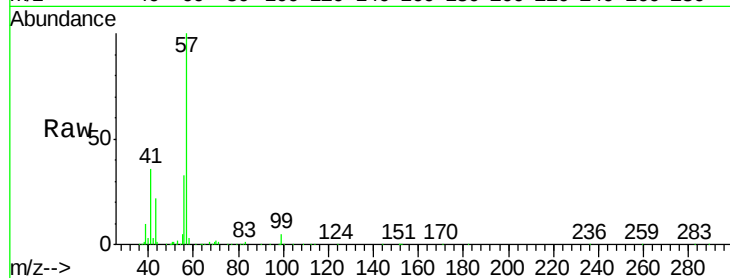
#44
 2,2,4-Trimethylpentane
 Concen: 1.146 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: VL036105.D
 Acq: 8 Dec 2020 21:46

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	59.8	28.9	43.3#
56	42.2	25.3	37.9#

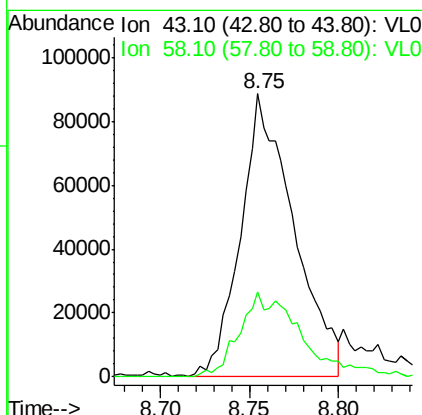
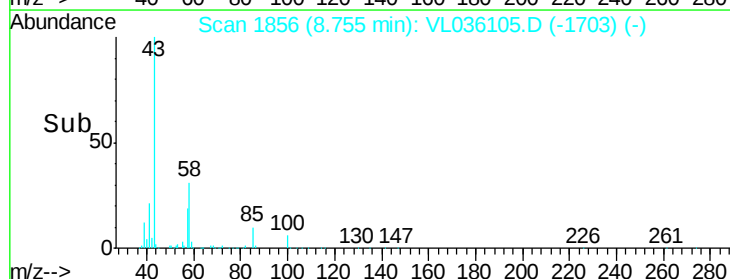
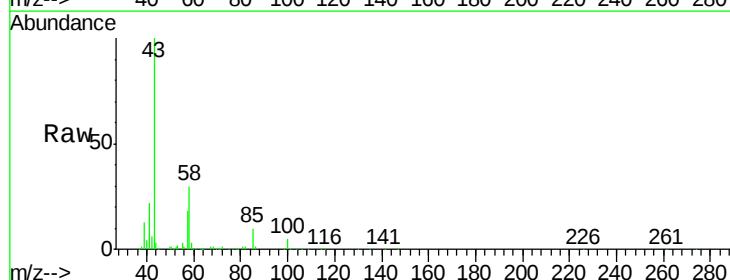
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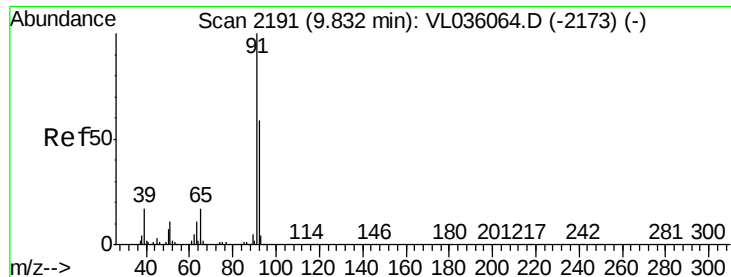
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#50
 4-Methyl-2-Pentanone
 Concen: 0.706 ppbv
 RT: 8.75 min Scan# 1856
 Delta R.T. -0.01 min
 Lab File: VL036105.D
 Acq: 8 Dec 2020 21:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.4	41.2





#53

Toluene

Concen: 20.195 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 91 Resp: 5028153

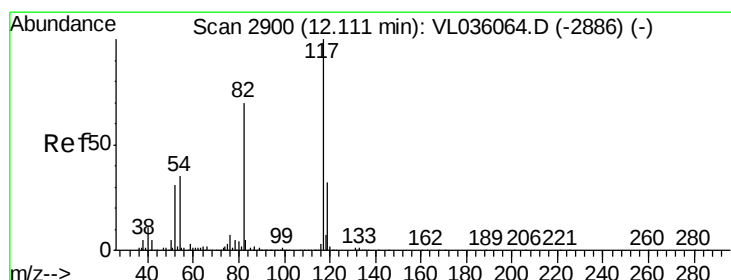
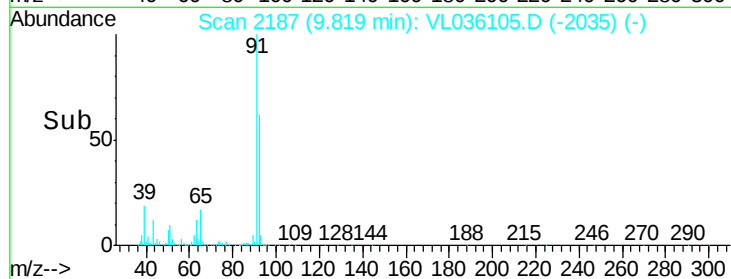
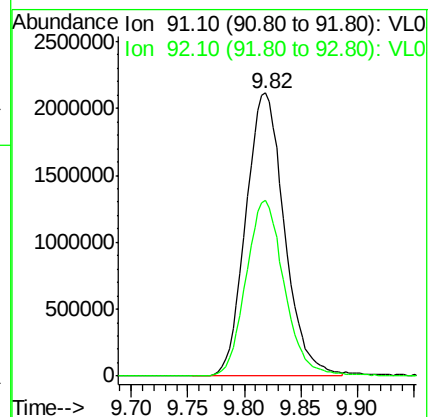
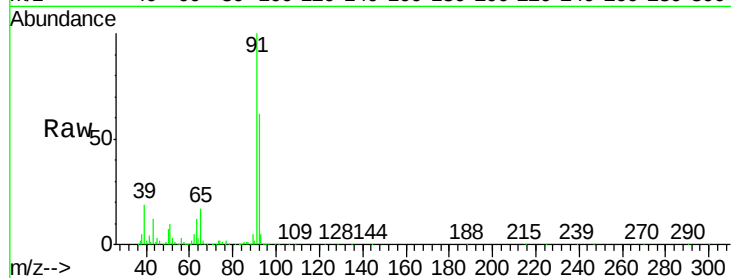
Ion Ratio Lower Upper

91 100

92 62.2 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.01 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

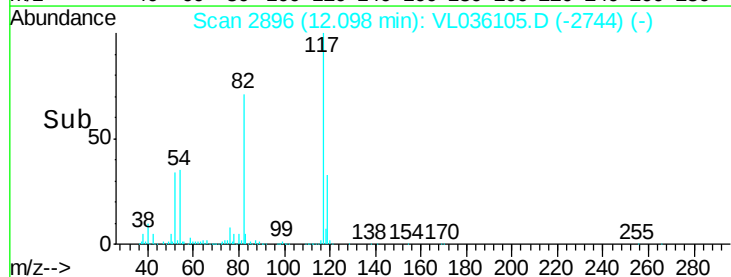
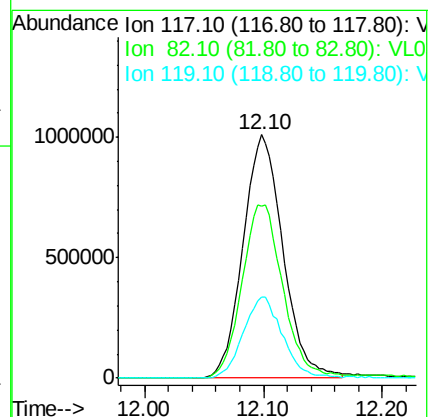
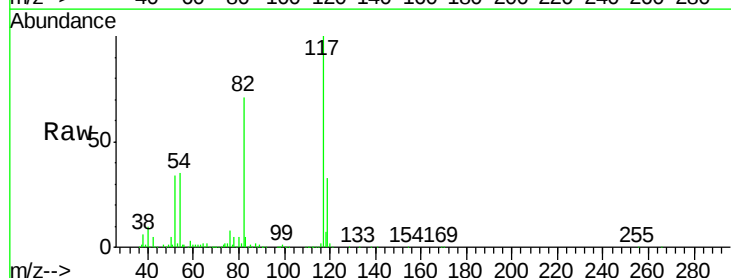
Tgt Ion: 117 Resp: 2350710

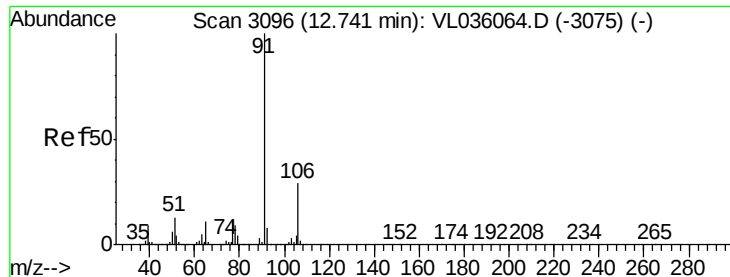
Ion Ratio Lower Upper

117 100

82 74.9 0.0 0.0#

119 33.3 0.0 0.0#





#58

Ethyl Benzene

Concen: 1.462 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.02 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 91 Resp: 470914

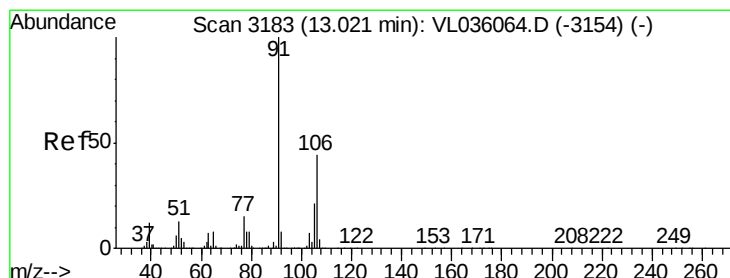
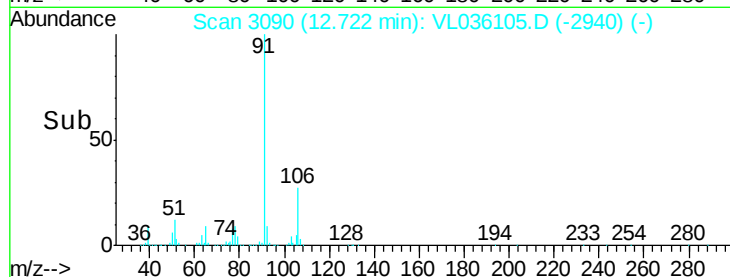
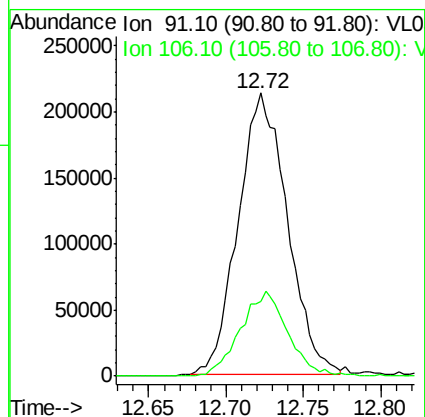
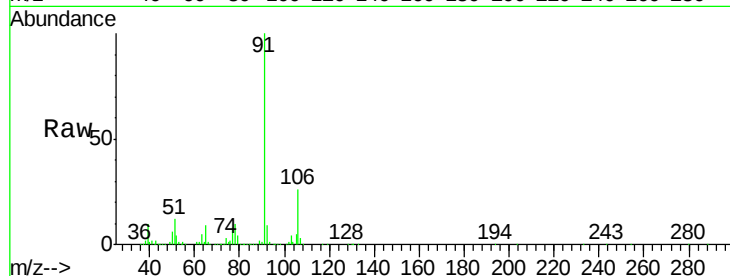
Ion Ratio Lower Upper

91 100

106 26.5 23.0 34.4

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#59

m/p-Xylene

Concen: 5.372 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.04 min

Lab File: VL036105.D

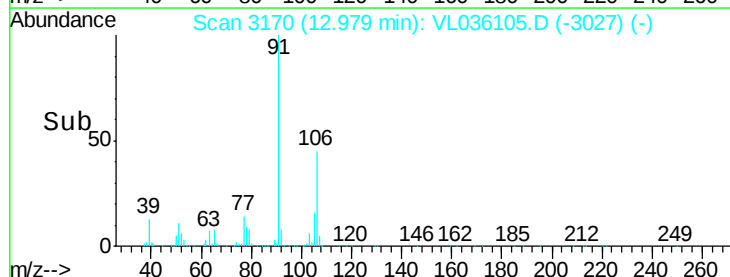
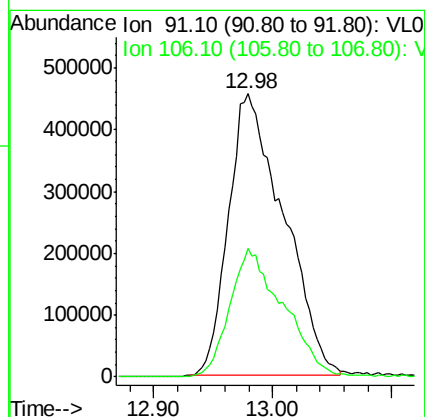
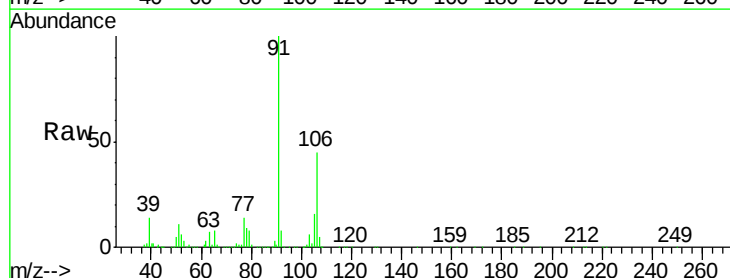
Acq: 8 Dec 2020 21:46

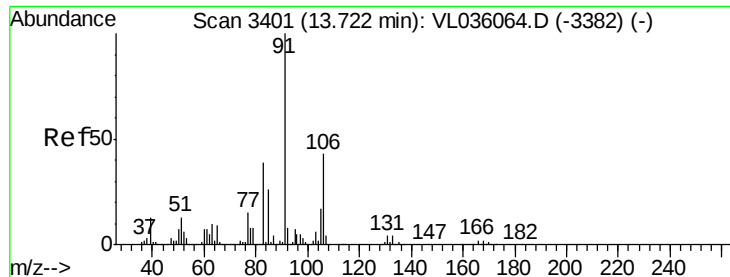
Tgt Ion: 91 Resp: 1457595

Ion Ratio Lower Upper

91 100

106 44.4 33.6 50.4





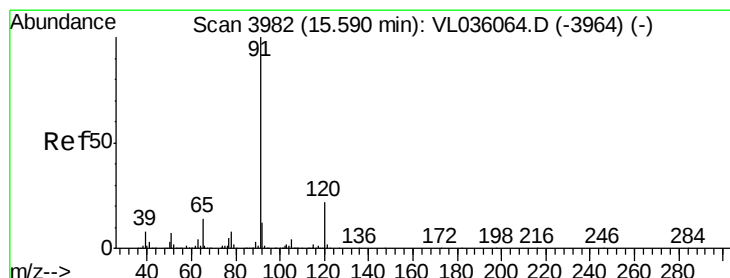
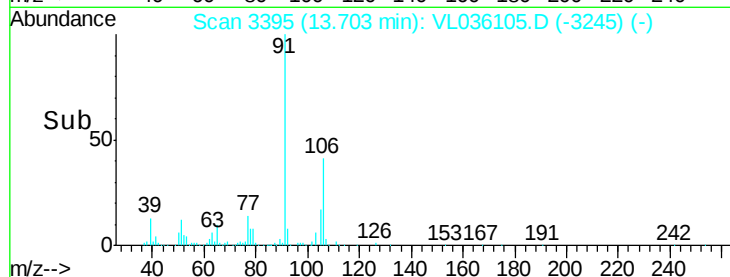
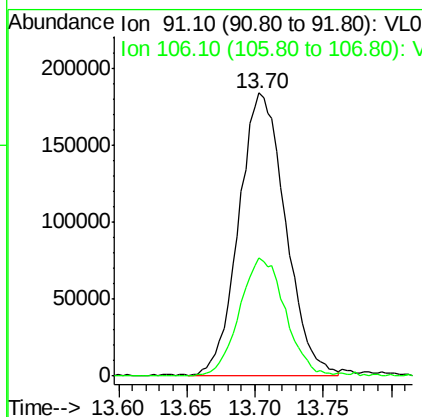
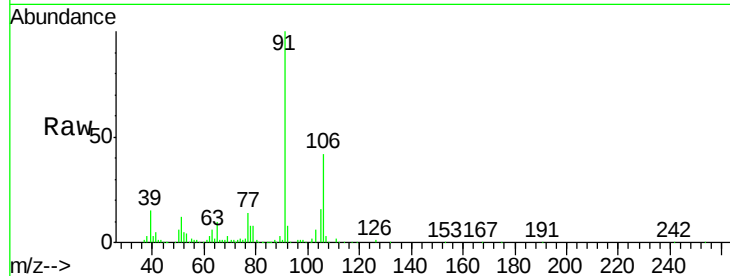
#60
o-Xylene
Concen: 1.697 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.02 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion: 91 Resp: 433819
Ion Ratio Lower Upper
91 100
106 41.9 21.6 64.6

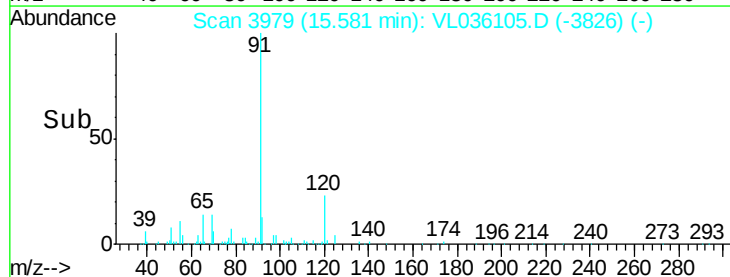
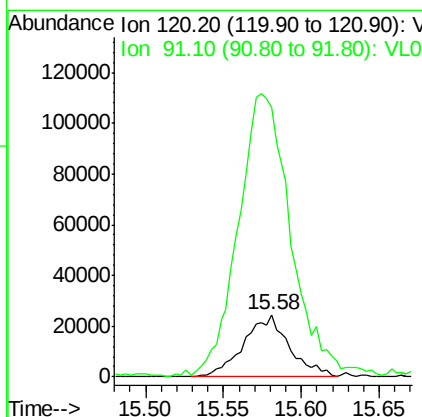
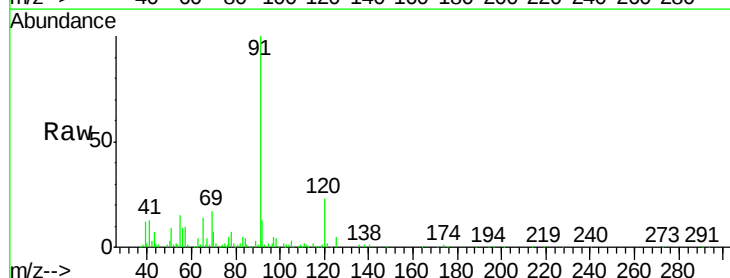
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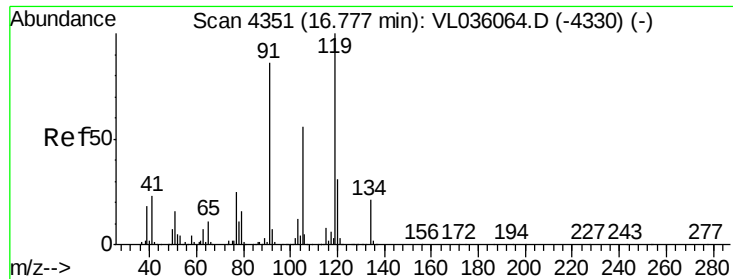
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#64
n-propylbenzene
Concen: 0.543 ppbv m
RT: 15.58 min Scan# 3979
Delta R.T. -0.01 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Tgt Ion:120 Resp: 49531
Ion Ratio Lower Upper
120 100
91 533.5 388.9 583.3





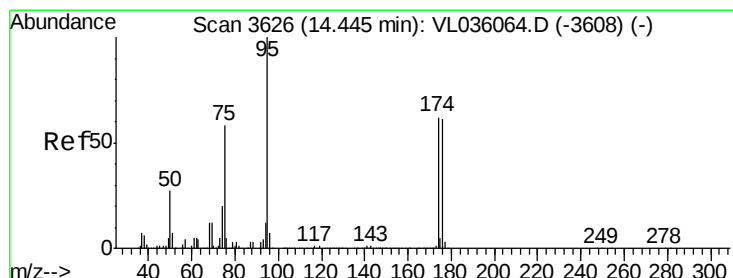
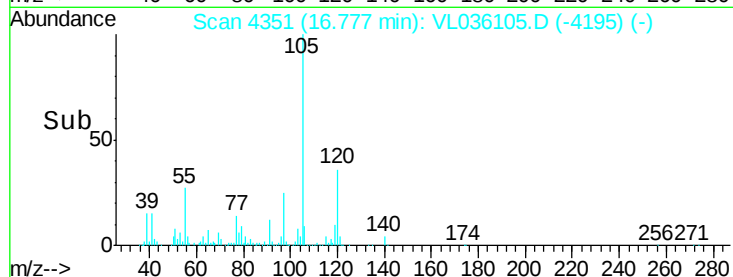
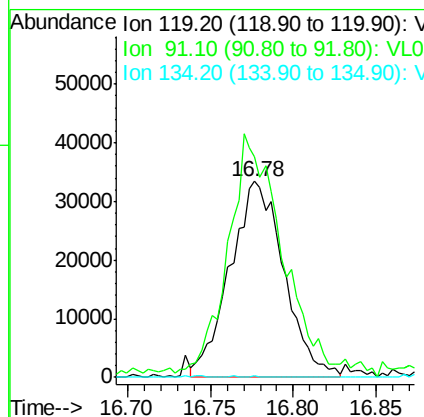
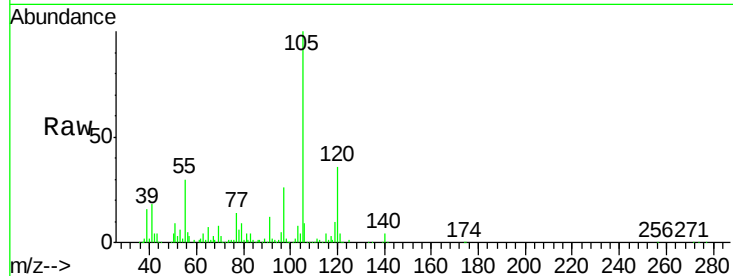
#65
tert-Butylbenzene
Concen: 0.244 ppbv
RT: 16.78 min Scan# 4351
Delta R.T. 0.00 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	125.6	70.2	105.2#
134	0.0	15.8	23.6#

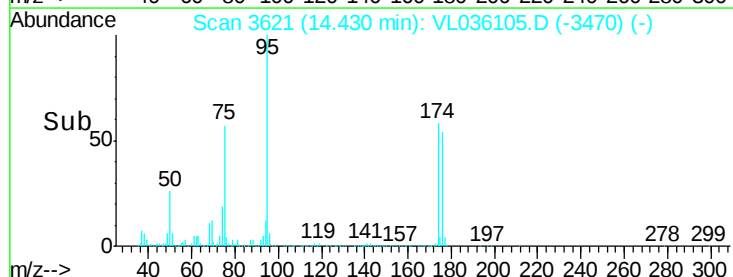
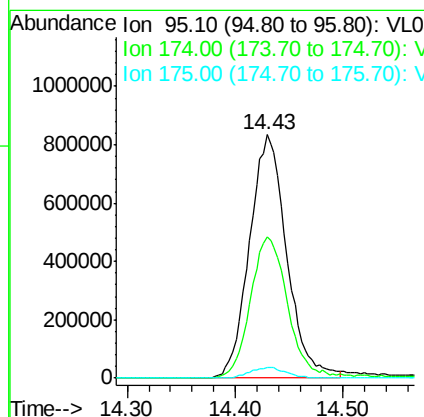
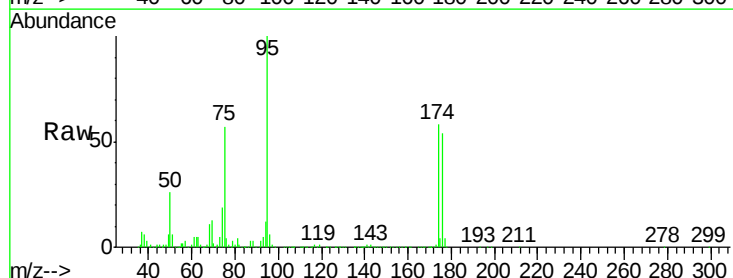
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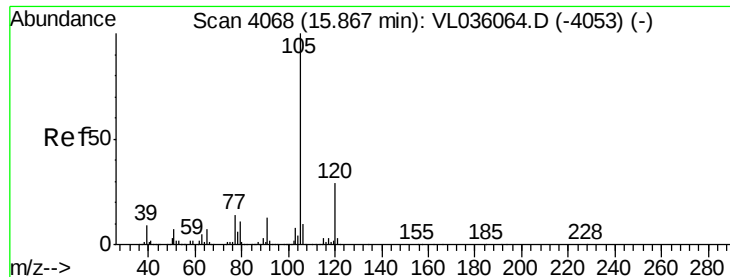
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.711 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.02 min
Lab File: VL036105.D
Acq: 8 Dec 2020 21:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	59.0	50.7	76.1
175	4.6	4.0	6.0





#72

4-Ethyltoluene

Concen: 1.070 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL036105.D

Acq: 8 Dec 2020 21:46

Instrument :

MSVOA_L

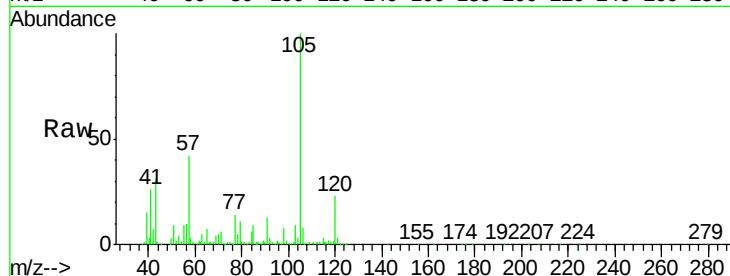
ClientSampleId :

IA-2DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	296191		
120	120	30.2	23.6	35.4	
91	91	13.3	11.4	17.0	
77	77	17.2	12.1	18.1	

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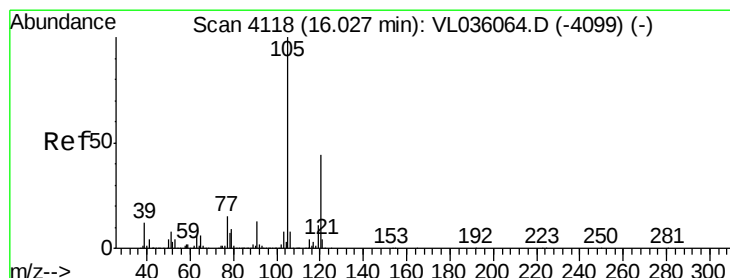
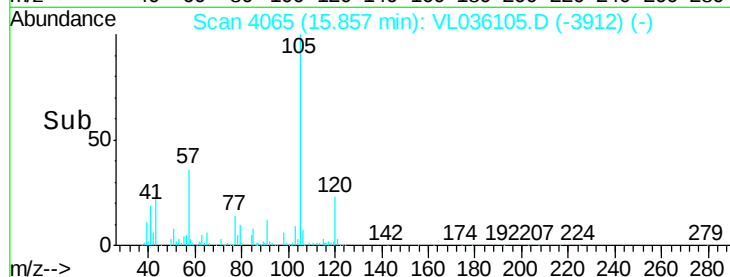
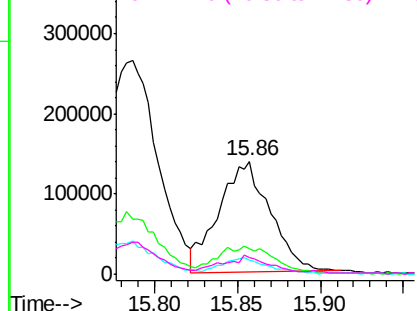


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 1.038 ppbv

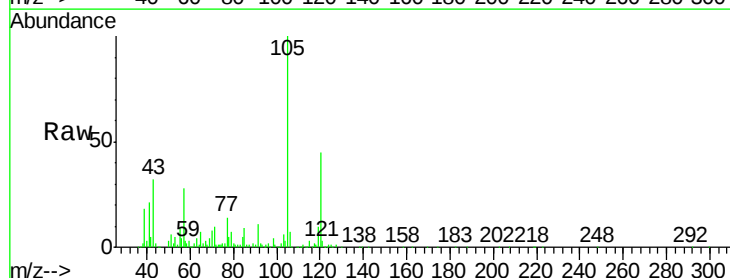
RT: 16.01 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VL036105.D

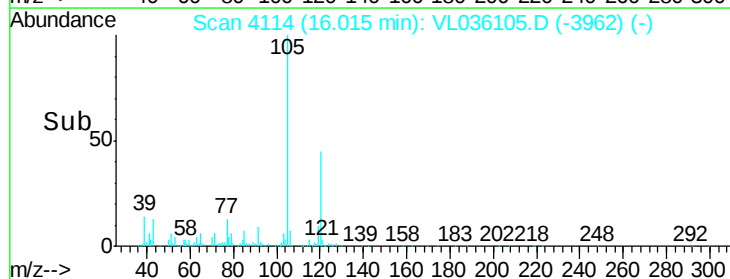
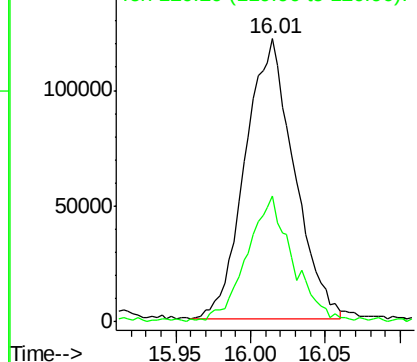
Acq: 8 Dec 2020 21:46

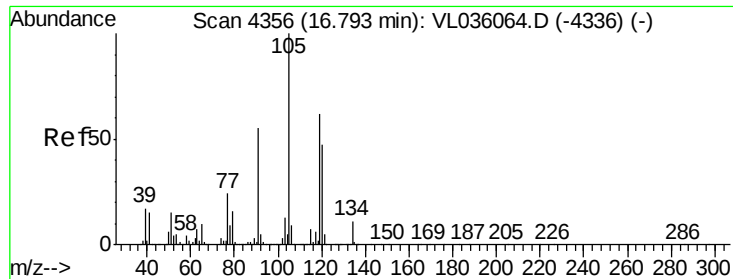
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	274416		
120	120	43.7	35.4	53.2	



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 2.837 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.02 min
 Lab File: VL036105.D
 Acq: 8 Dec 2020 21:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	35.7	37.4	56.0#
91	11.5	45.6	68.4#
77	13.9	19.4	29.2#

Manual Integrations
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