

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034995.D
 Acq On : 12 May 2020 20:20
 Operator : SY/AP
 Sample : L2567-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Manual Integrations
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MMDadoda
 5/13/2020 5:12:12 PM

Quant Time: May 14 13:58:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1072939	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2561943	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2373639	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	1918537	9.99	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.98	41	320182m	6.023	ppbv	
10) Heptane	8.12	43	437345m	3.284	ppbv	
13) Ethanol	3.56	45	1051477	59.945	ppbv	99
15) Acetone	3.81	43	3868540	27.273	ppbv	97
19) Isopropyl Alcohol	3.93	45	118759	1.255	ppbv #	1
20) Methylene Chloride	4.31	84	33918	0.722	ppbv #	74
26) Hexane	5.67	57	852167	8.250	ppbv #	43
30) Cyclohexane	7.12	84	223803	2.808	ppbv	90
36) Benzene	6.88	78	459919	2.177	ppbv	95
44) 2,2,4-Trimethylpentane	7.87	57	794888	2.117	ppbv #	82
52) Tetrachloroethene	11.24	164	7758m	0.103	ppbv	
53) Toluene	9.81	91	4353968	19.445	ppbv	99
58) Ethyl Benzene	12.73	91	678849m	2.313	ppbv	
59) m/p-Xylene	12.99	91	2103354	8.145	ppbv #	59
60) o-Xylene	13.71	91	801892	3.147	ppbv	99
64) n-propylbenzene	15.59	120	45813m	0.469	ppbv	
65) tert-Butylbenzene	16.79	119	82641m	0.250	ppbv	
72) 4-Ethyltoluene	15.86	105	223123	0.785	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	210946m	0.762	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	777771	2.575	ppbv #	73
79) Naphthalene	22.26	128	75299m	0.320	ppbv	

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

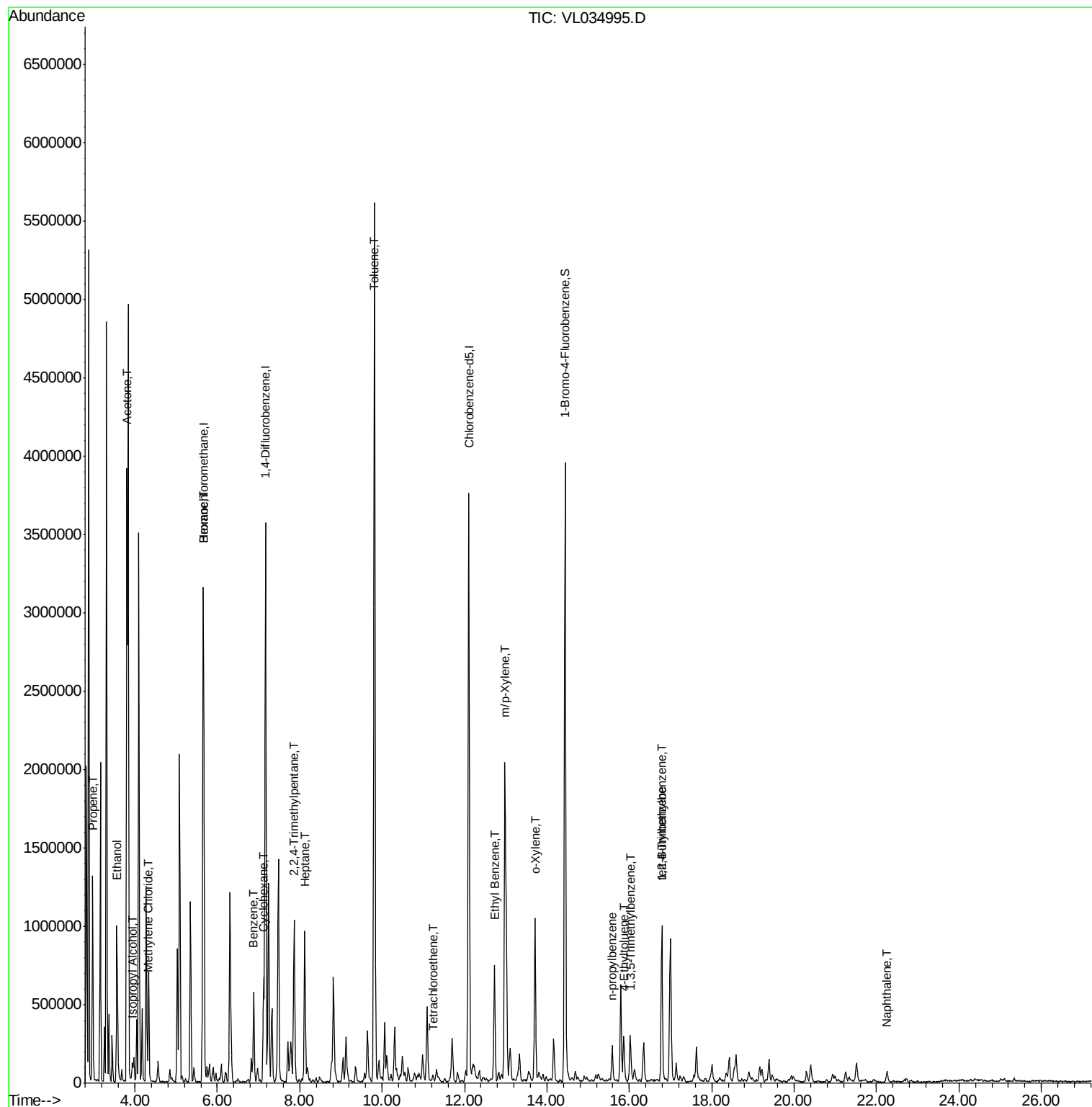
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL034995.D
Acq On : 12 May 2020 20:20
Operator : SY/AP
Sample : L2567-04DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

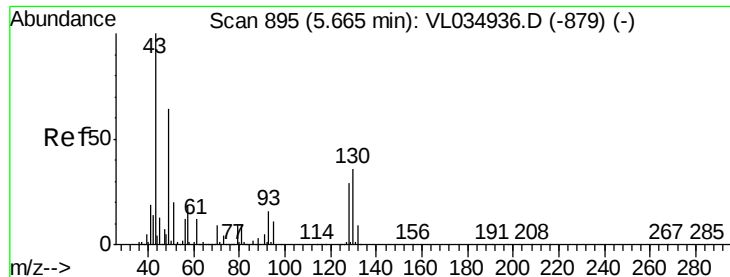
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

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Quant Time: May 14 13:58:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL034995.D

Acq: 12 May 2020 20:20

Instrument :

MSVOA_L

ClientSampleID :

IA-1DL

Tot Ion: 49 Resp: 1072939

Ion Ratio Lower Upper

49 100

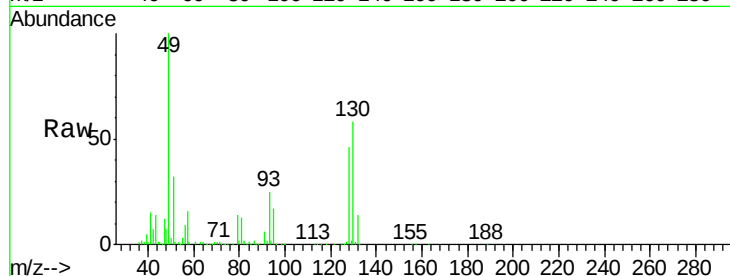
128 44.8 22.1 66.5

130 57.5 29.1 87.3

Manual Integrations
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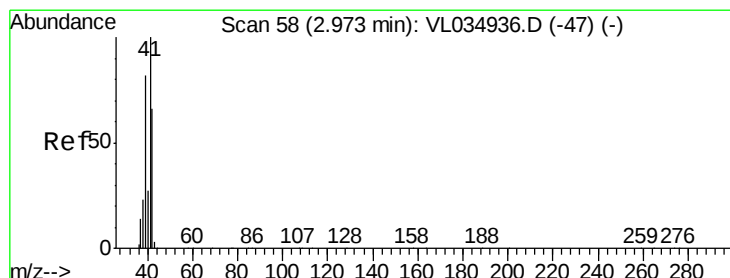
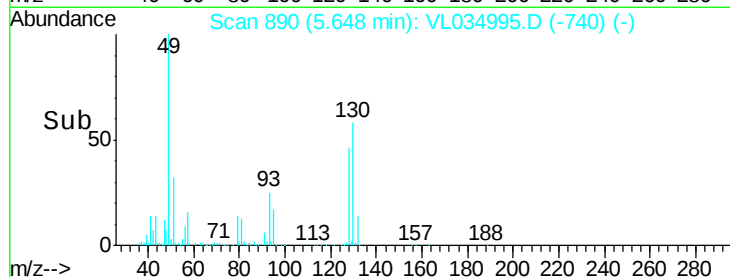
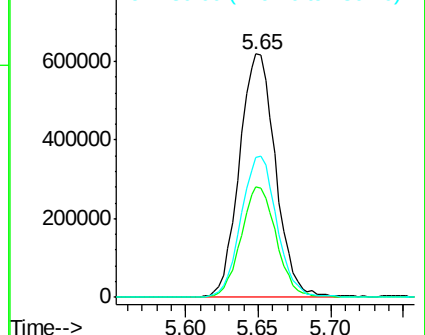
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 6.023 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL034995.D

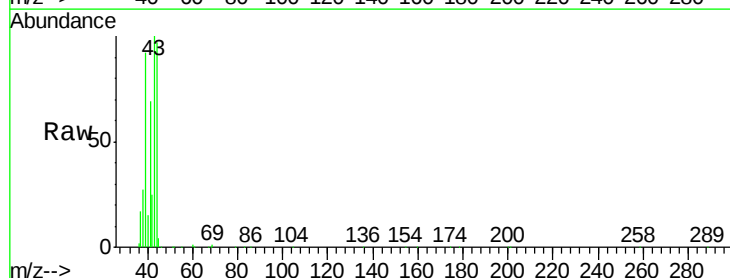
Acq: 12 May 2020 20:20

Tgt Ion: 41 Resp: 320182

Ion Ratio Lower Upper

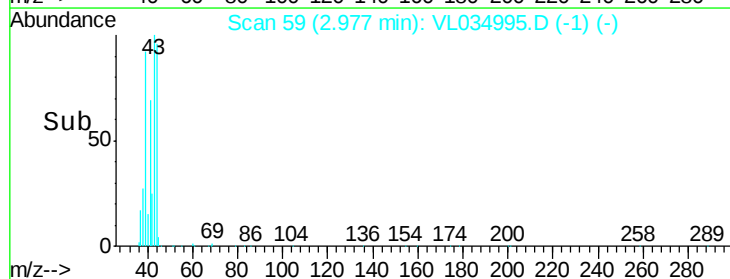
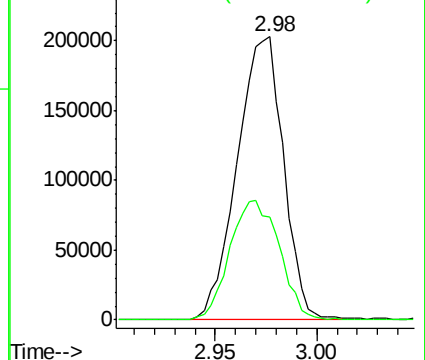
41 100

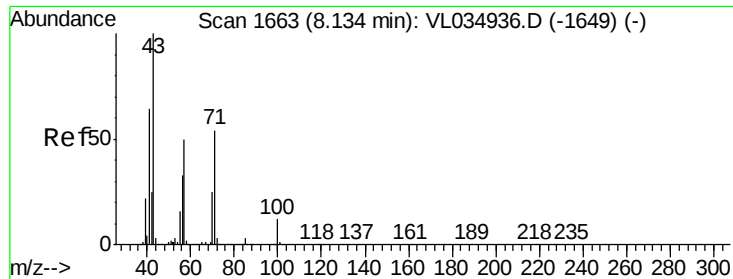
42 113.0 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





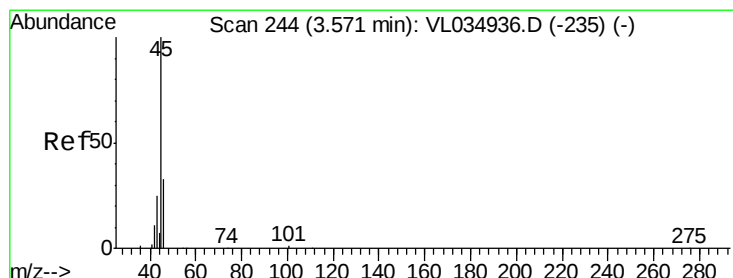
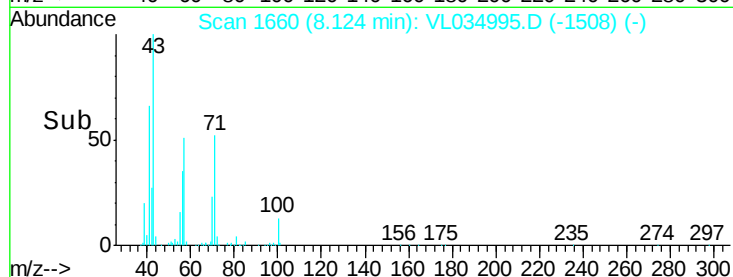
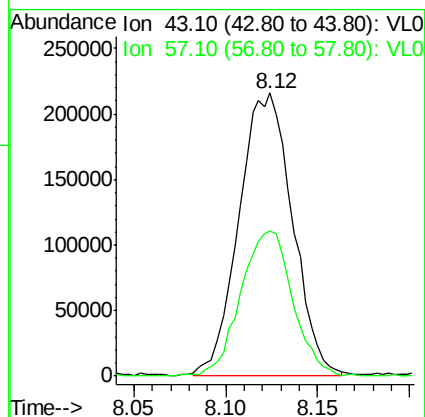
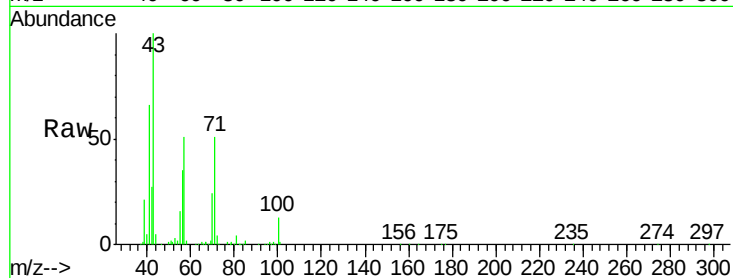
#10
Heptane
Concen: 3.284 ppbv m
RT: 8.12 min Scan# 1660
Delta R.T. -0.01 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Instrument :
MSVOA_L
ClientSampled :
IA-1DL

Tot Ion: 43 Resp: 437345
Ion Ratio Lower Upper
43 100
57 0.0 41.1 61.7#

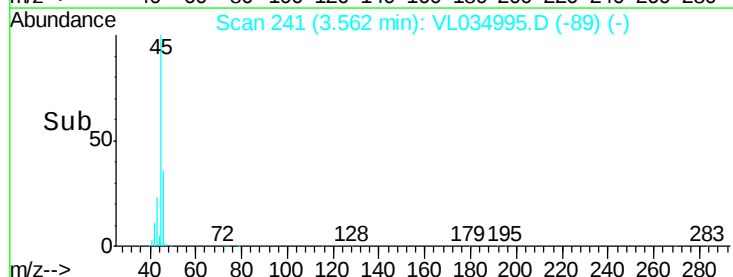
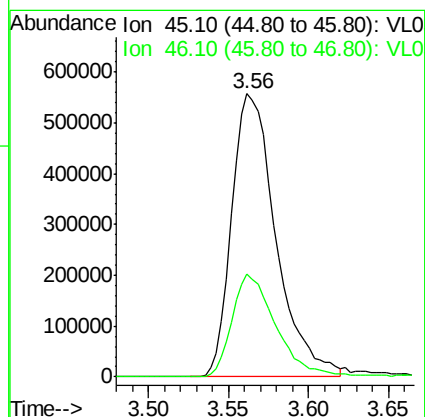
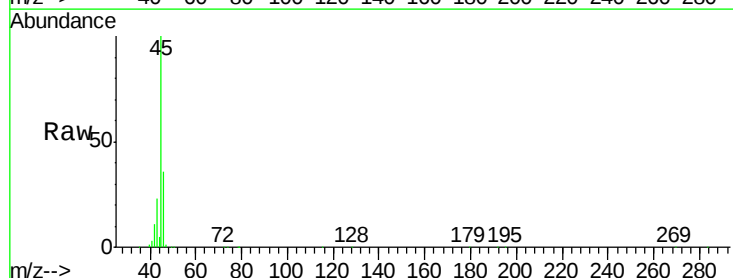
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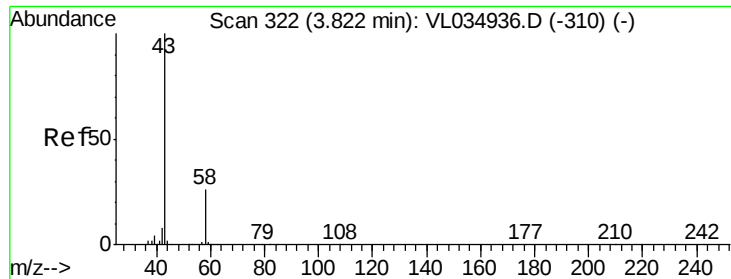
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#13
Ethanol
Concen: 59.945 ppbv
RT: 3.56 min Scan# 241
Delta R.T. -0.01 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion: 45 Resp: 1051477
Ion Ratio Lower Upper
45 100
46 36.6 14.3 57.3





#15

Acetone

Concen: 27.273 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.02 min

Lab File: VL034995.D

Acq: 12 May 2020 20:20

Instrument :

MSVOA_L

ClientSampled :

IA-1DL

Tot Ion: 43 Resp: 3868540

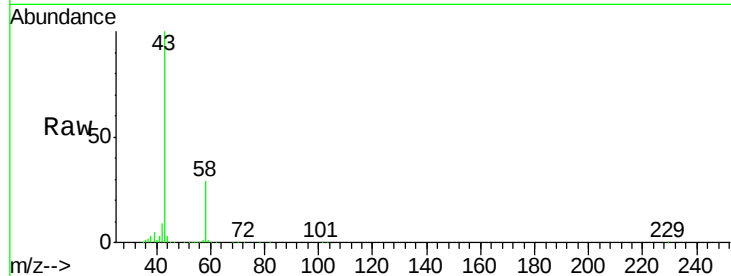
Ion Ratio Lower Upper

43 100

58 28.8 21.7 32.5

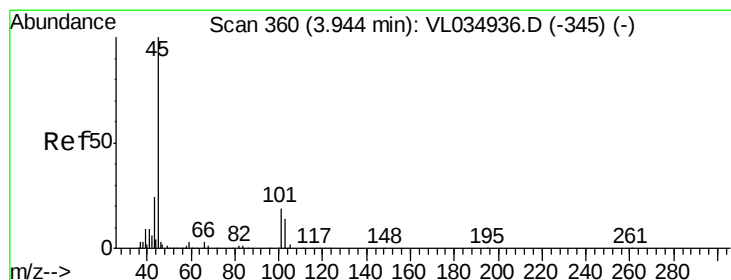
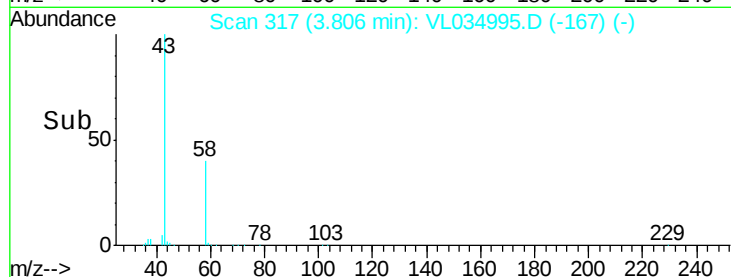
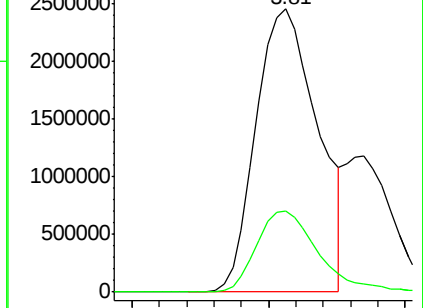
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 1.255 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.01 min

Lab File: VL034995.D

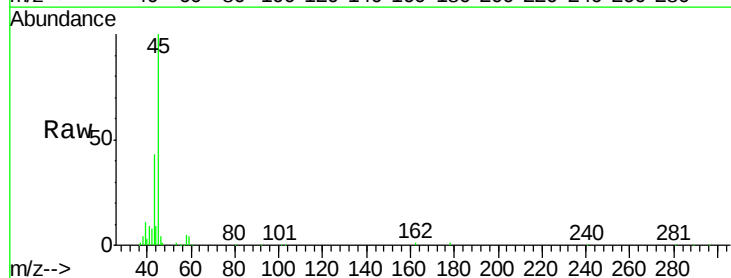
Acq: 12 May 2020 20:20

Tgt Ion: 45 Resp: 118759

Ion Ratio Lower Upper

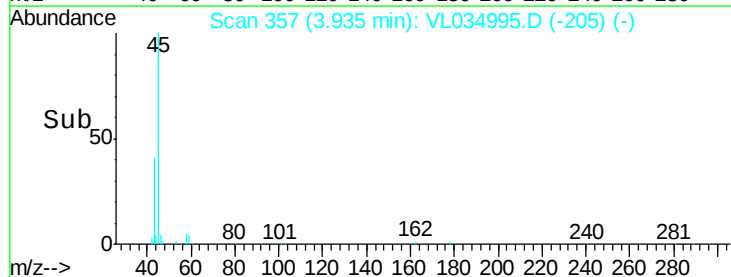
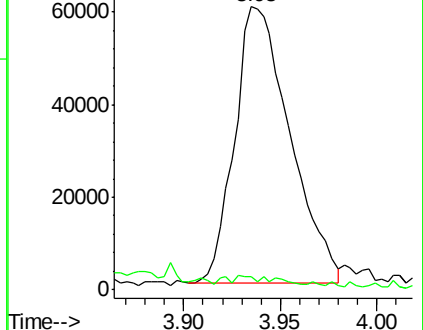
45 100

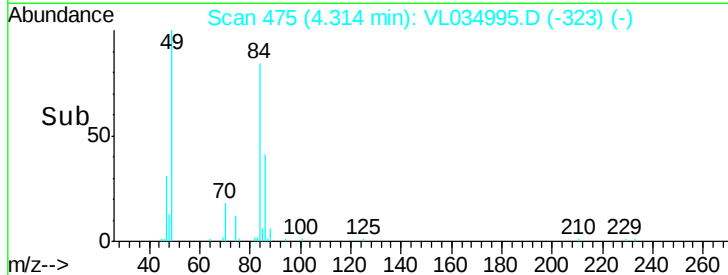
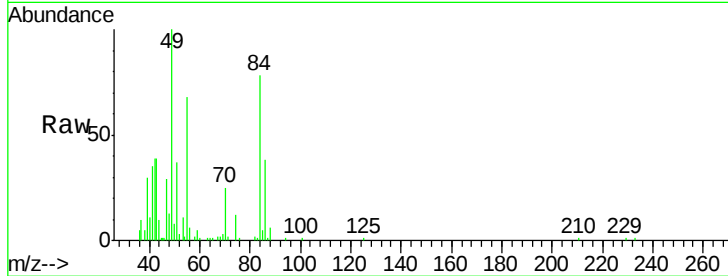
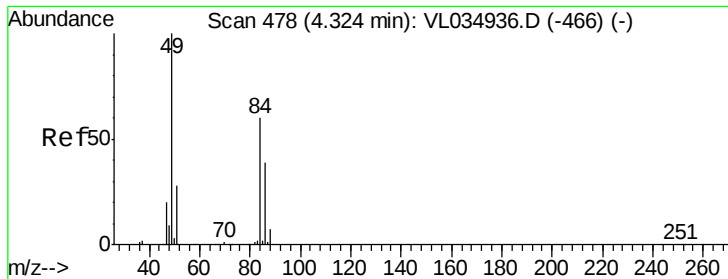
58 943.2 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





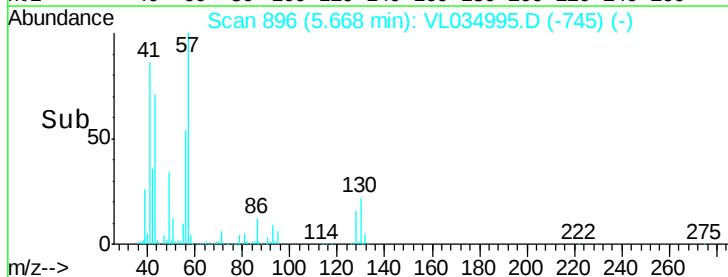
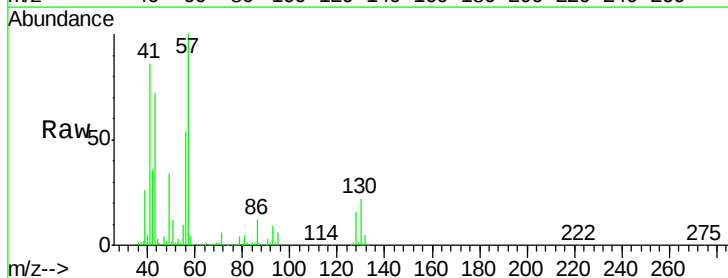
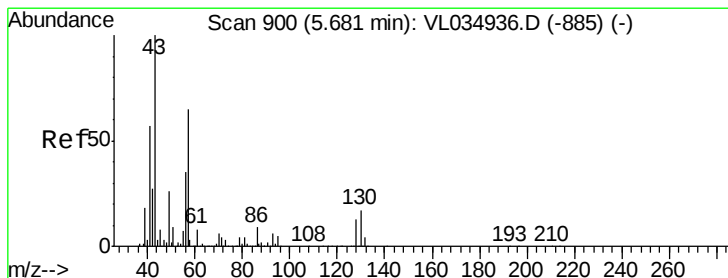
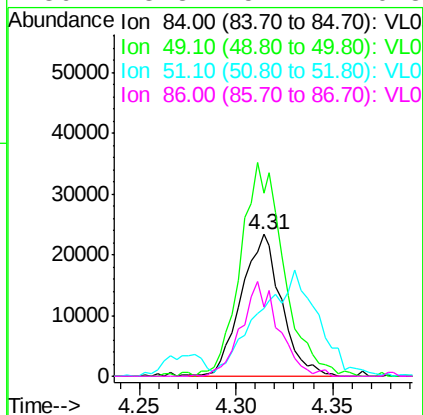
#20
Methvlene Chloride
Concen: 0.722 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tot Ion	Ratio	Lower	Upper
84	100		
49	126.6	132.5	198.7#
51	33.3	38.4	57.6#
86	48.3	51.2	76.8#

Instrument :
MSVOA_L
ClientSampled :
IA-1DL

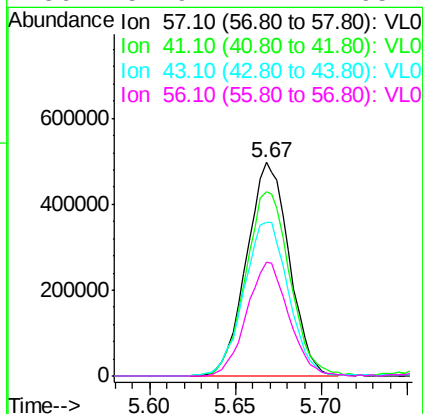
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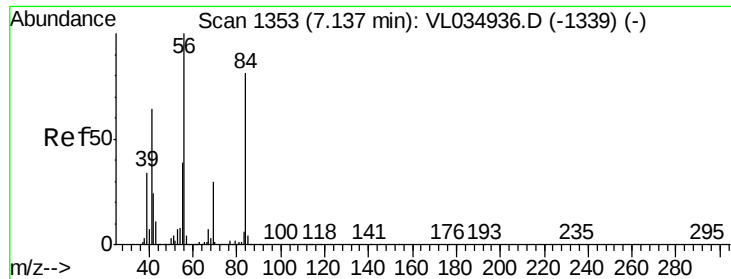
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#26
Hexane
Concen: 8.250 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.2	72.7	109.1
43	75.8	182.1	273.1#
56	52.9	42.2	63.2





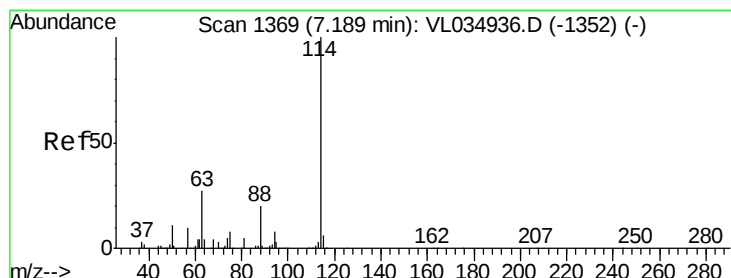
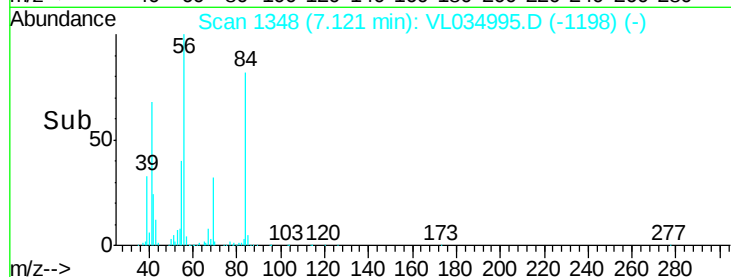
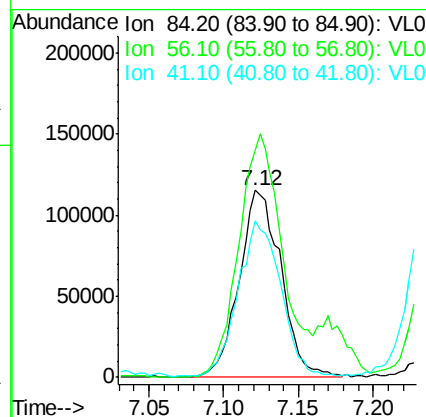
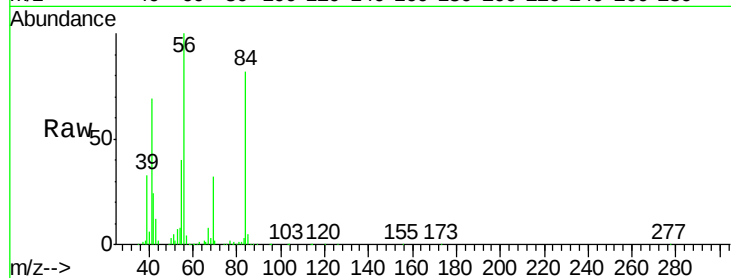
#30
Cvclohexane
Concen: 2.808 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.02 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Instrument :
MSVOA_L
ClientSampled :
IA-1DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	158.1	111.4	167.2
41	84.8	66.7	100.1

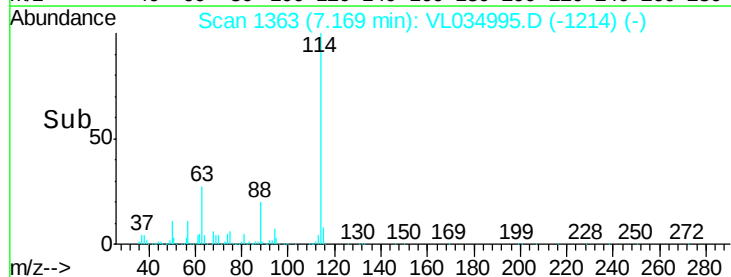
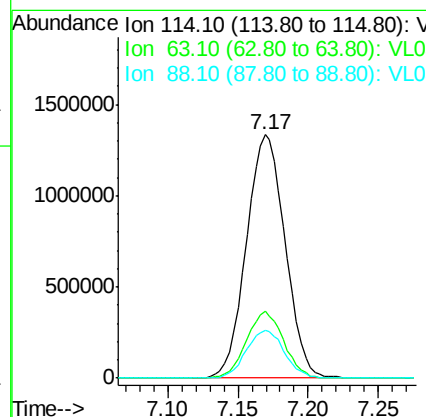
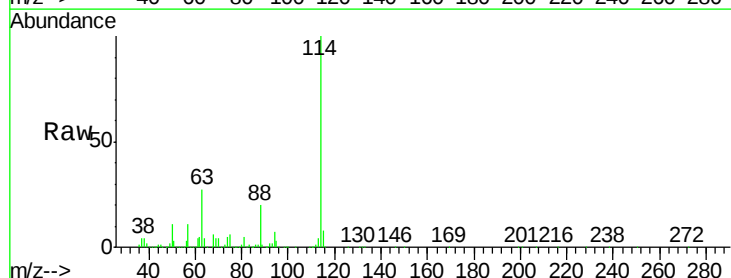
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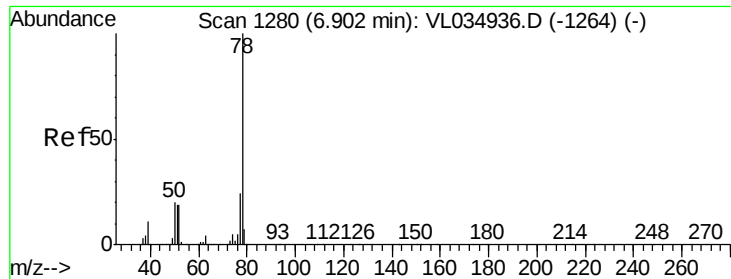
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	19.5	15.5	23.3





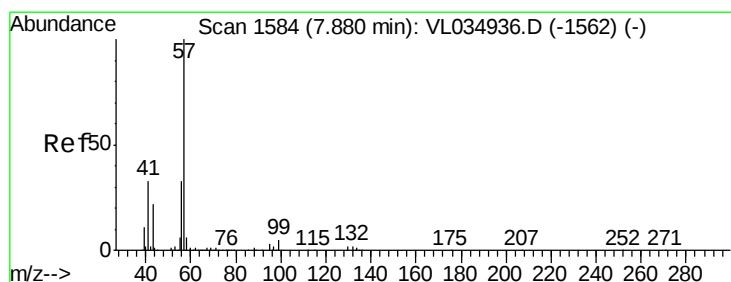
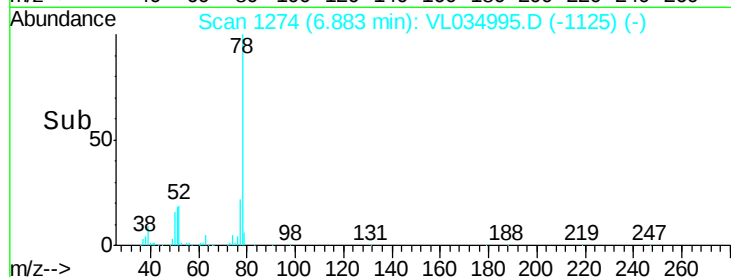
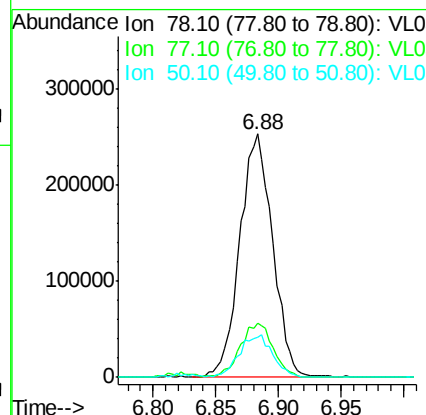
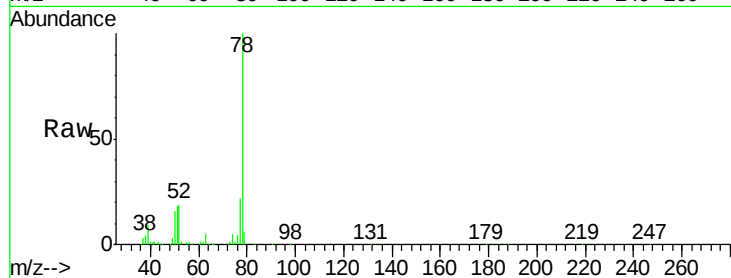
#36
Benzene
Concen: 2.177 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.02 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tot Ion	78	Resp	459919
Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.0	28.6
50	16.1	15.8	23.8

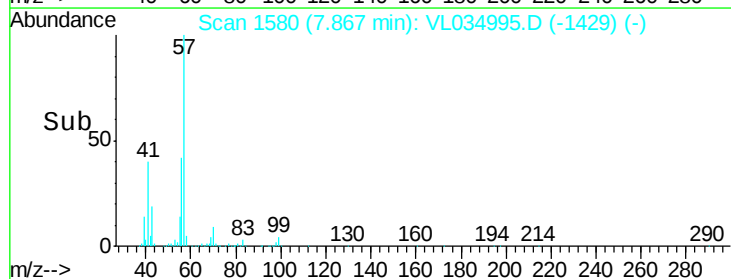
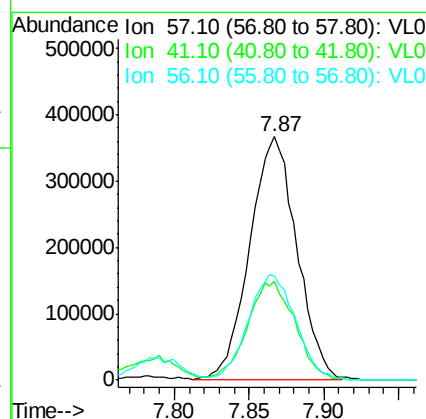
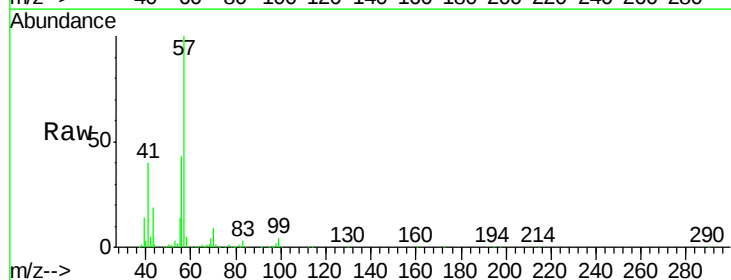
Manual Integrations
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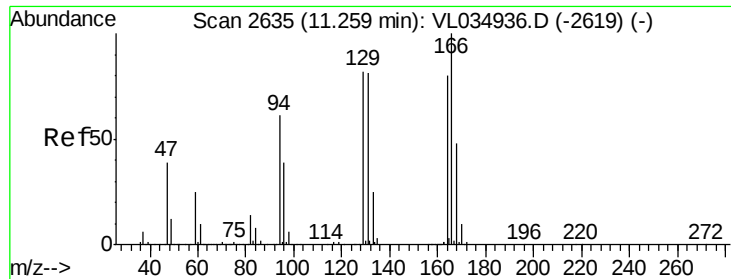
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5/13/2020 5:12:12 PM



#44
2,2,4-Trimethylpentane
Concen: 2.117 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion	57	Resp	794888
Ion	Ratio	Lower	Upper
57	100		
41	41.4	26.4	39.6#
56	44.2	25.5	38.3#





#52

Tetrachloroethene

Concen: 0.103 ppbv m

RT: 11.24 min Scan# 2628

Delta R.T. -0.02 min

Lab File: VL034995.D

Acq: 12 May 2020 20:20

Instrument :

MSVOA_L

ClientSampled :

IA-1DL

Tot Ion:164 Resp: 7758

Ion Ratio Lower Upper

164 100

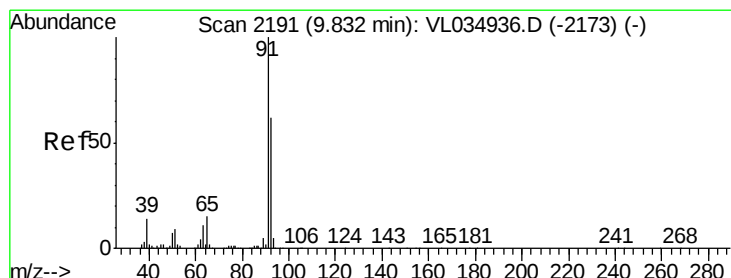
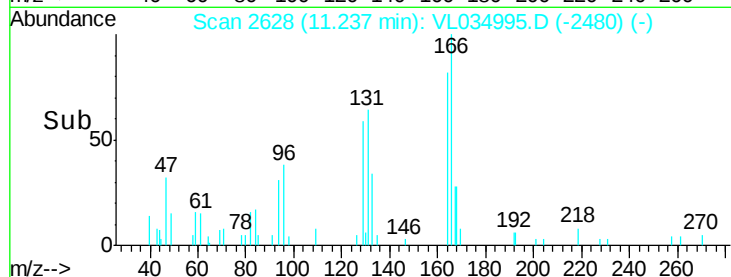
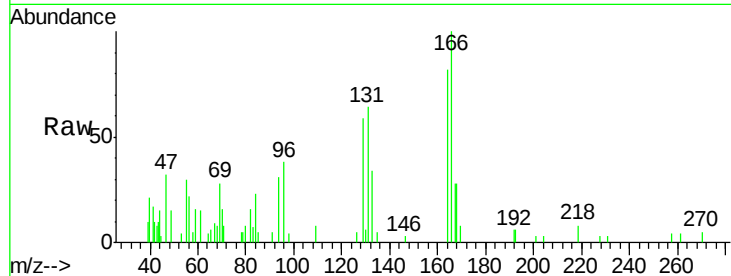
166 122.4 100.7 151.1

129 72.1 83.0 124.4#

131 78.6 81.0 121.4#

Manual Integrations
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#53

Toluene

Concen: 19.445 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL034995.D

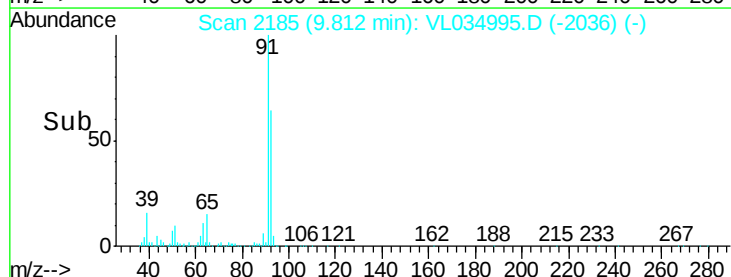
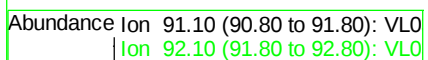
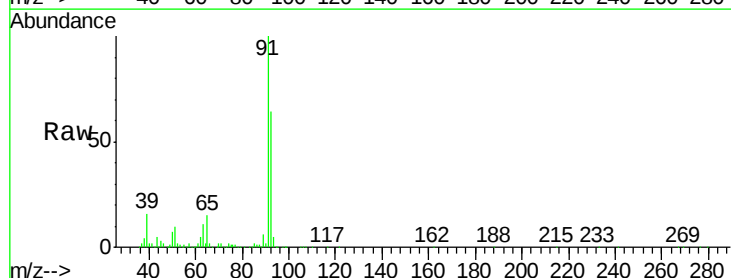
Acq: 12 May 2020 20:20

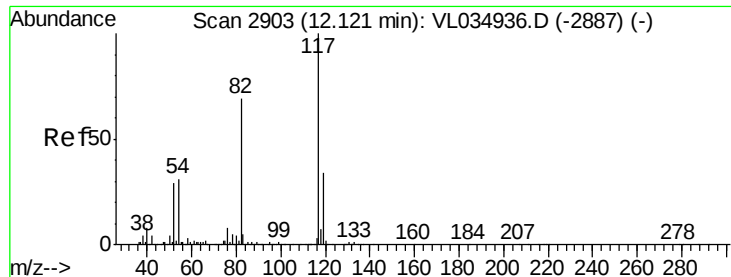
Tgt Ion: 91 Resp: 4353968

Ion Ratio Lower Upper

91 100

92 61.9 48.6 73.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL034995.D

Acq: 12 May 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tot Ion:117 Resp: 2373639

Ion Ratio Lower Upper

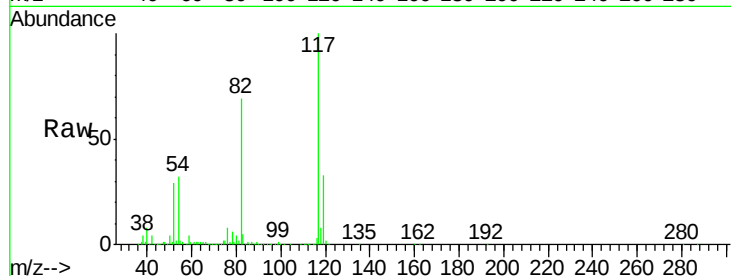
117 100

82 67.9 53.1 79.7

119 32.8 26.7 40.1

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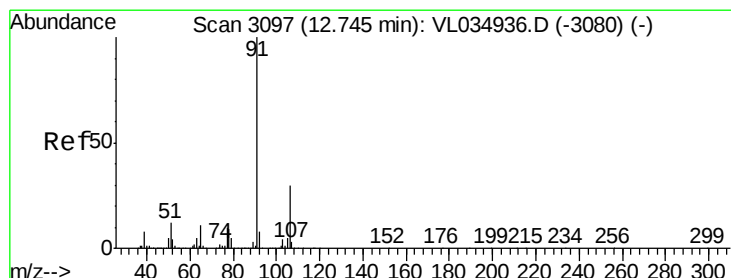
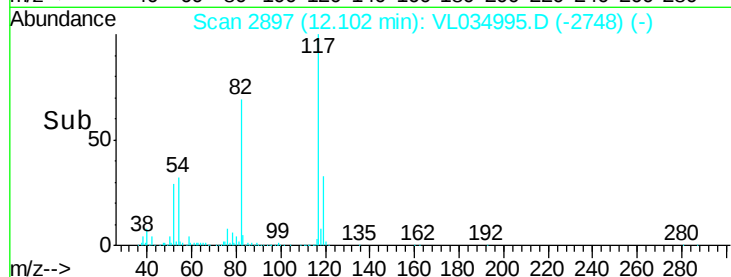
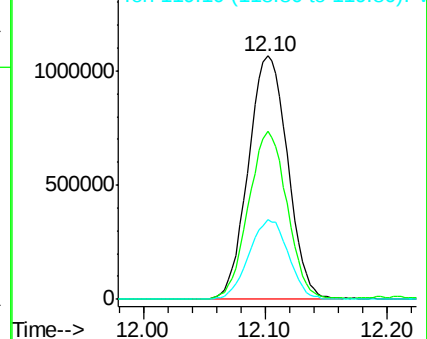
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 2.313 ppbv m

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL034995.D

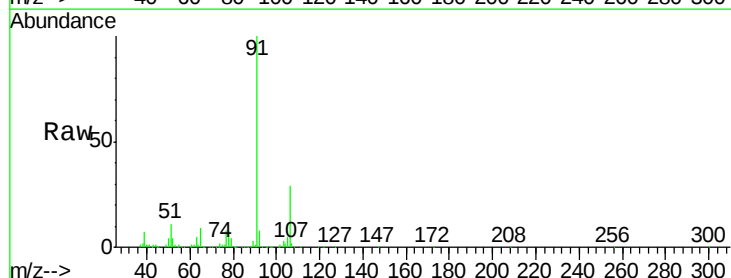
Acq: 12 May 2020 20:20

Tgt Ion: 91 Resp: 678849

Ion Ratio Lower Upper

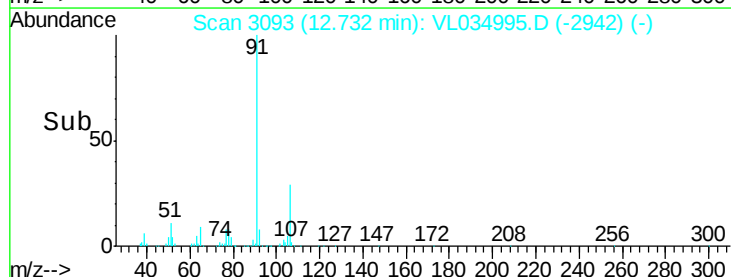
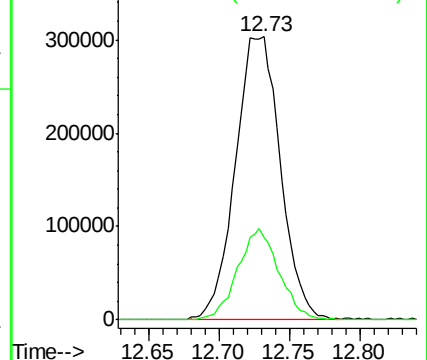
91 100

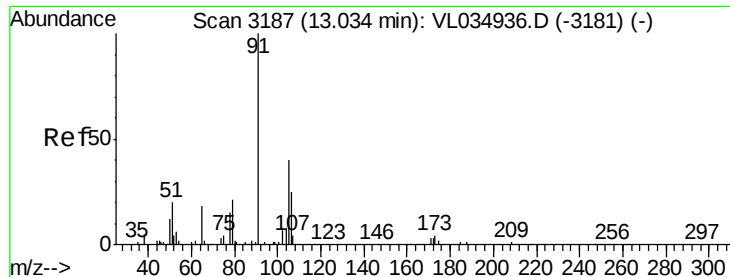
106 29.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





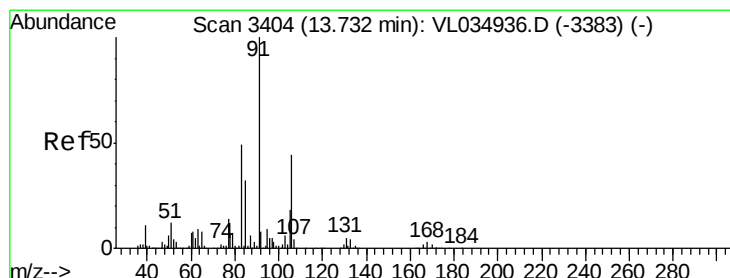
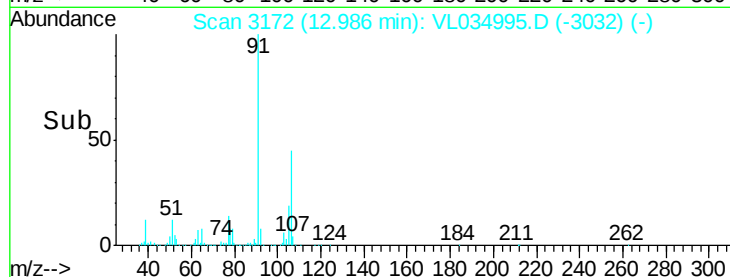
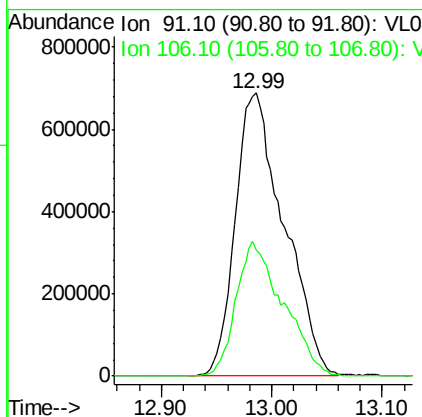
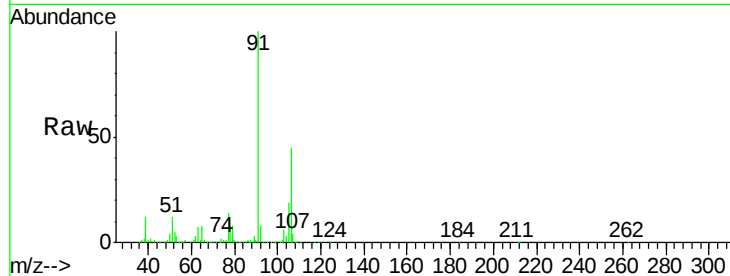
#59
m/p-Xylene
Concen: 8.145 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.05 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Instrument :
MSVOA_L
ClientSampled :
IA-1DL

Tot Ion: 91 Resp: 2103354
Ion Ratio Lower Upper
91 100
106 46.1 66.0 99.0#

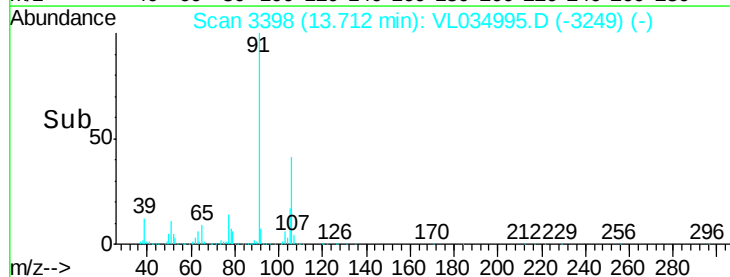
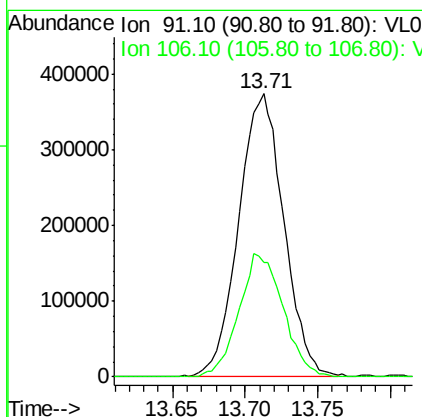
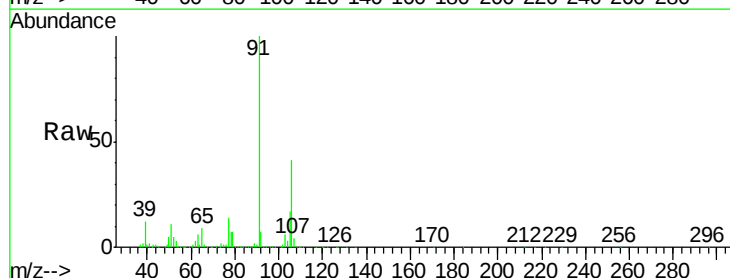
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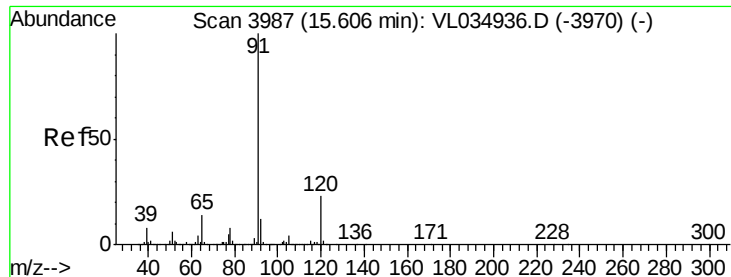
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#60
o-Xylene
Concen: 3.147 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.02 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion: 91 Resp: 801892
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.5





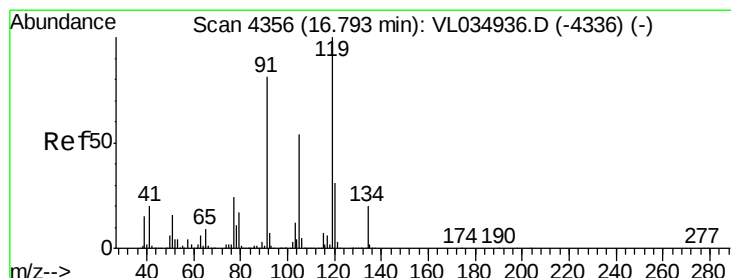
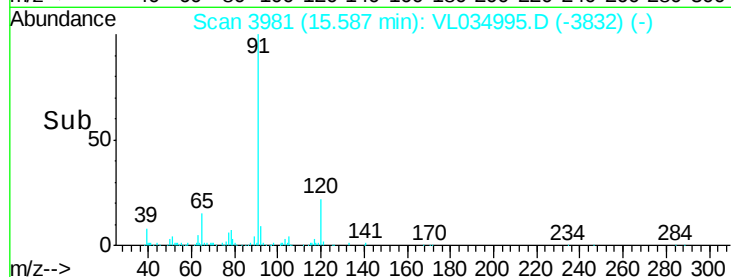
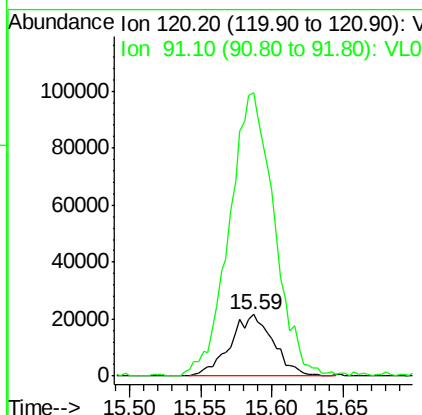
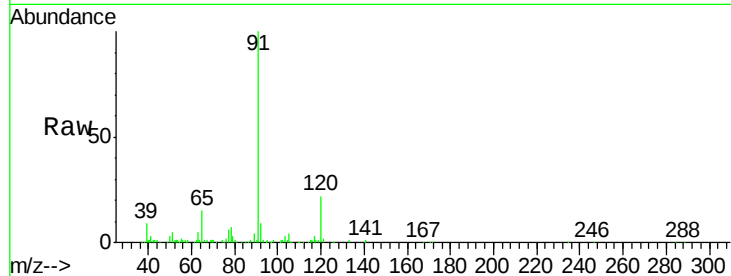
#64
n-propylbenzene
Concen: 0.469 ppbv m
RT: 15.59 min Scan# 3981
Delta R.T. -0.02 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tot Ion:120 Resp: 45813
Ion Ratio Lower Upper
120 100
91 0.0 373.5 560.3#

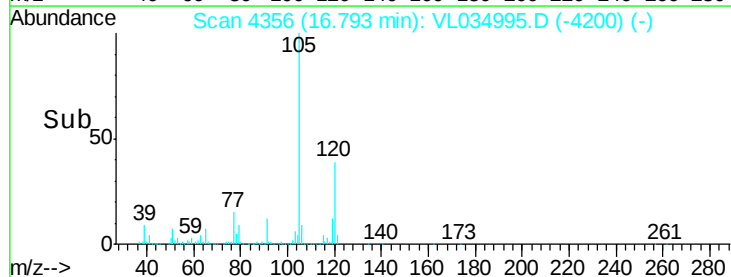
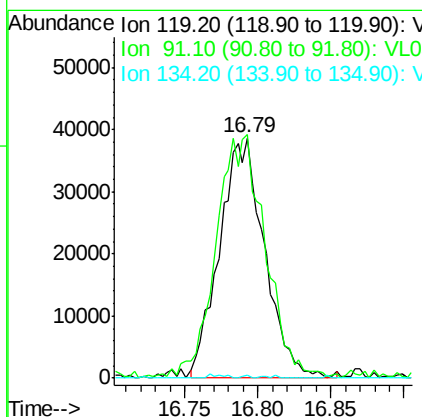
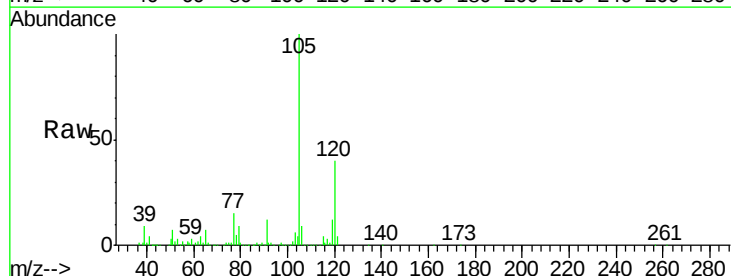
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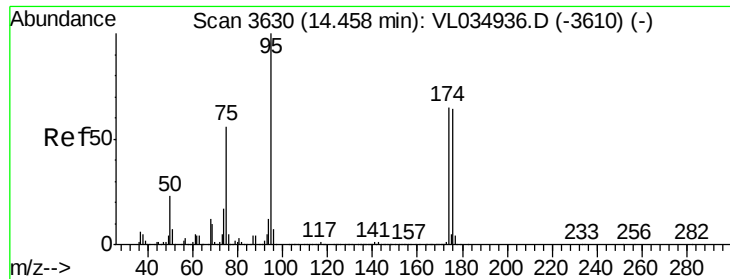
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#65
tert-Butylbenzene
Concen: 0.250 ppbv m
RT: 16.79 min Scan# 4356
Delta R.T. -0.00 min
Lab File: VL034995.D
Acq: 12 May 2020 20:20

Tgt Ion:119 Resp: 82641
Ion Ratio Lower Upper
119 100
91 0.0 67.5 101.3#
134 0.7 16.1 24.1#





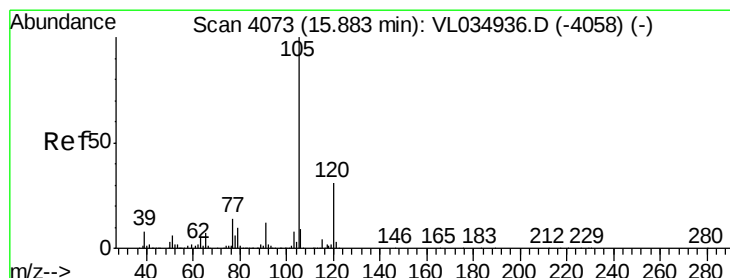
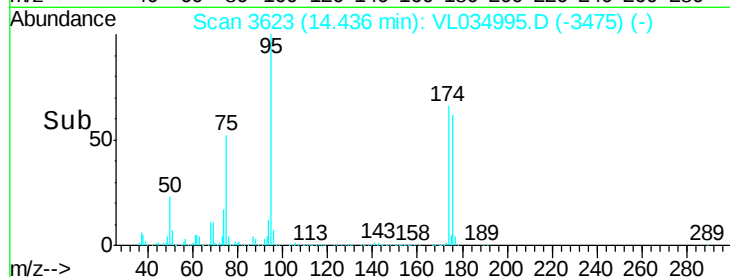
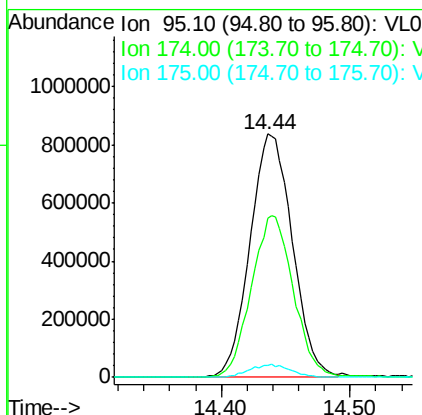
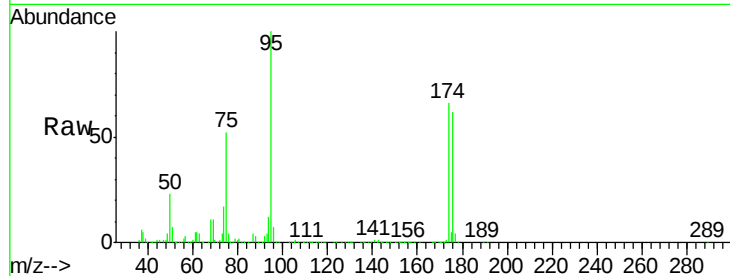
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.985 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.02 min
 Lab File: VL034995.D
 Acq: 12 May 2020 20:20

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1DL

Tot Ion: 95 Resp: 1918537
 Ion Ratio Lower Upper
 95 100
 174 66.4 51.5 77.3
 175 5.2 3.8 5.8

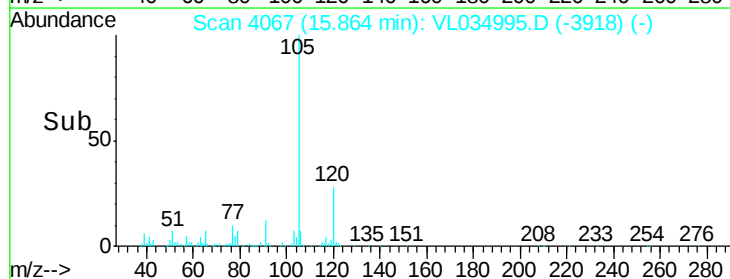
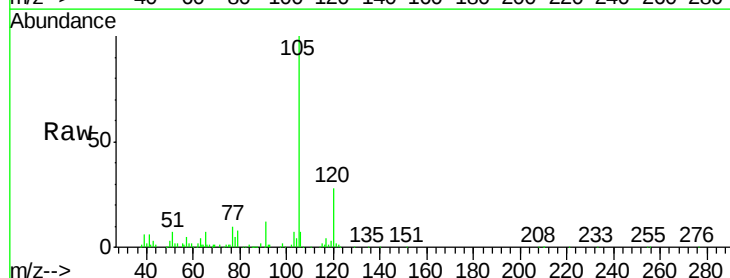
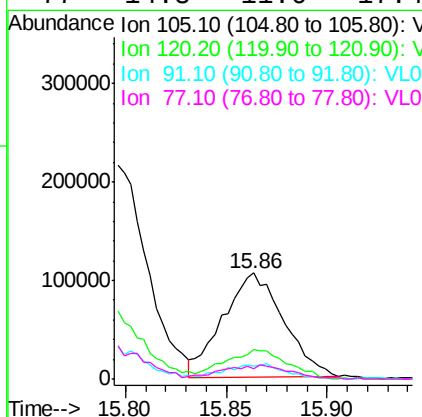
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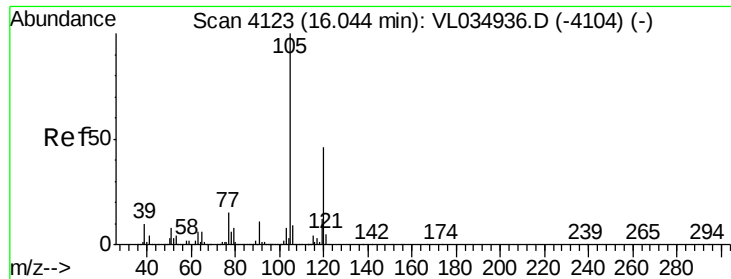
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#72
 4-Ethyltoluene
 Concen: 0.785 ppbv
 RT: 15.86 min Scan# 4067
 Delta R.T. -0.02 min
 Lab File: VL034995.D
 Acq: 12 May 2020 20:20

Tgt Ion: 105 Resp: 223123
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.8 35.8
 91 15.0 10.6 15.8
 77 14.8 11.6 17.4





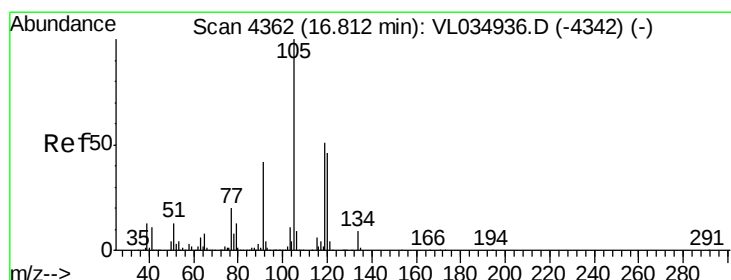
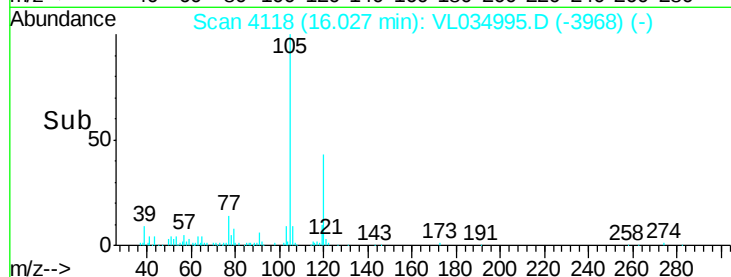
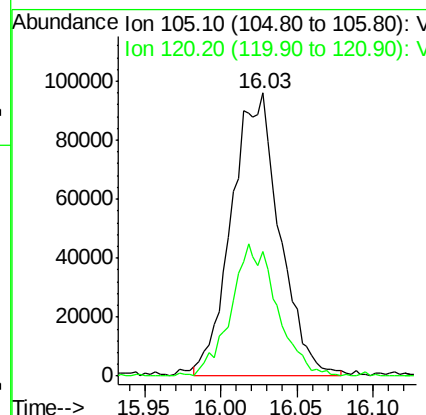
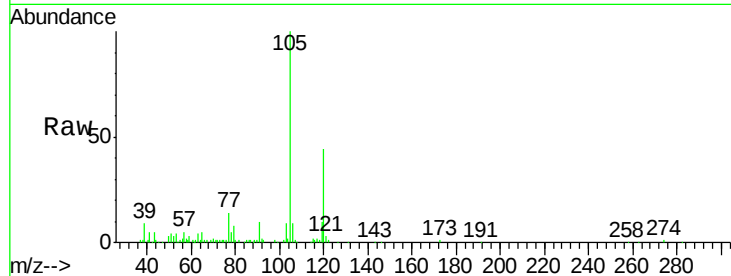
#73
 1,3,5-Trimethylbenzene
 Concen: 0.762 ppbv m
 RT: 16.03 min Scan# 4118
 Delta R.T. -0.02 min
 Lab File: VL034995.D
 Acq: 12 May 2020 20:20

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.9	36.4	54.6

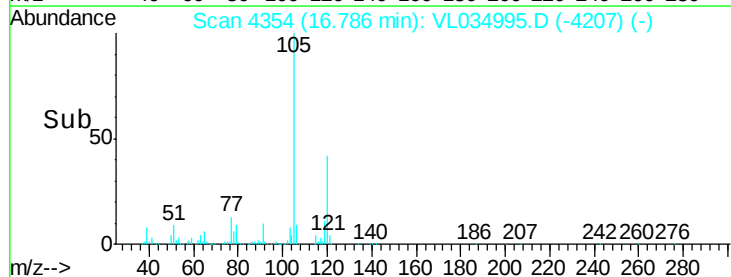
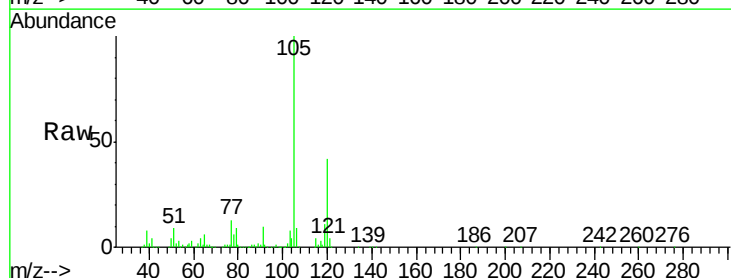
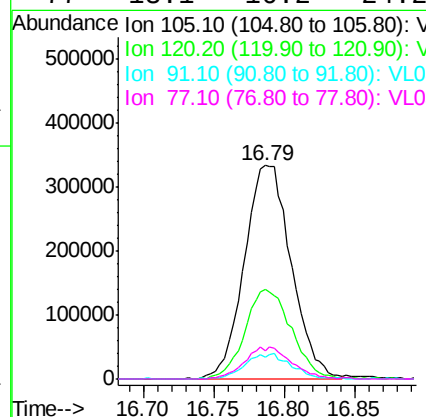
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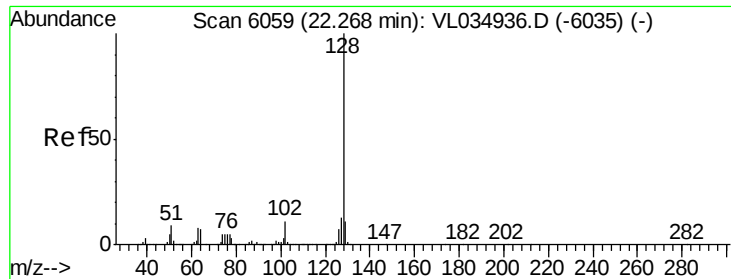
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#74
 1,2,4-Trimethylbenzene
 Concen: 2.575 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.03 min
 Lab File: VL034995.D
 Acq: 12 May 2020 20:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.9	36.8	55.2
91	10.0	35.4	53.0#
77	13.1	16.2	24.2#





#79

Naphthalene

Concen: 0.320 ppbv m

RT: 22.26 min Scan# 6055

Delta R.T. -0.01 min

Lab File: VL034995.D

Acq: 12 May 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.4	10.5	15.7
129	14.9	9.0	13.4

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