

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035769.D
 Acq On : 12 Oct 2020 19:55
 Operator : SY/AP
 Sample : L4347-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:11:49 PM

Quant Time: Oct 13 03:41:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 23
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1238280	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	5068542	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4955116	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	3693454	9.95	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	718218	14.849	ppbv	96
10) Heptane	8.12	43	60480	0.449	ppbv	92
13) Ethanol	3.59	45	45289	3.797	ppbv	99
15) Acetone	3.84	43	4770190	35.801	ppbv #	85
17) tert-Butyl alcohol	4.30	59	75839	0.523	ppbv	96
20) Methylene Chloride	4.34	84	140876	1.439	ppbv	95
26) Hexane	5.68	57	150412	1.145	ppbv #	43
27) Carbon Disulfide	4.55	76	114164	0.583	ppbv #	93
34) 2-Butanone	5.24	43	876852	5.230	ppbv	95
36) Benzene	6.89	78	237073	0.718	ppbv #	95
44) 2,2,4-Trimethylpentane	7.87	57	95343	0.201	ppbv #	87
50) 4-Methyl-2-Pentanone	8.75	43	26675m	0.109	ppbv	
51) 2-Hexanone	10.14	43	254457	1.290	ppbv #	97
52) Tetrachloroethene	11.22	164	4981m	0.031	ppbv	
53) Toluene	9.81	91	1392370	3.575	ppbv	98
58) Ethyl Benzene	12.73	91	135667	0.273	ppbv	92
59) m/p-Xylene	12.98	91	385222m	0.887	ppbv	
60) o-Xylene	13.70	91	140209	0.319	ppbv	99
72) 4-Ethyltoluene	15.85	105	63386	0.122	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.01	105	52731	0.107	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	195372m	0.352	ppbv	

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

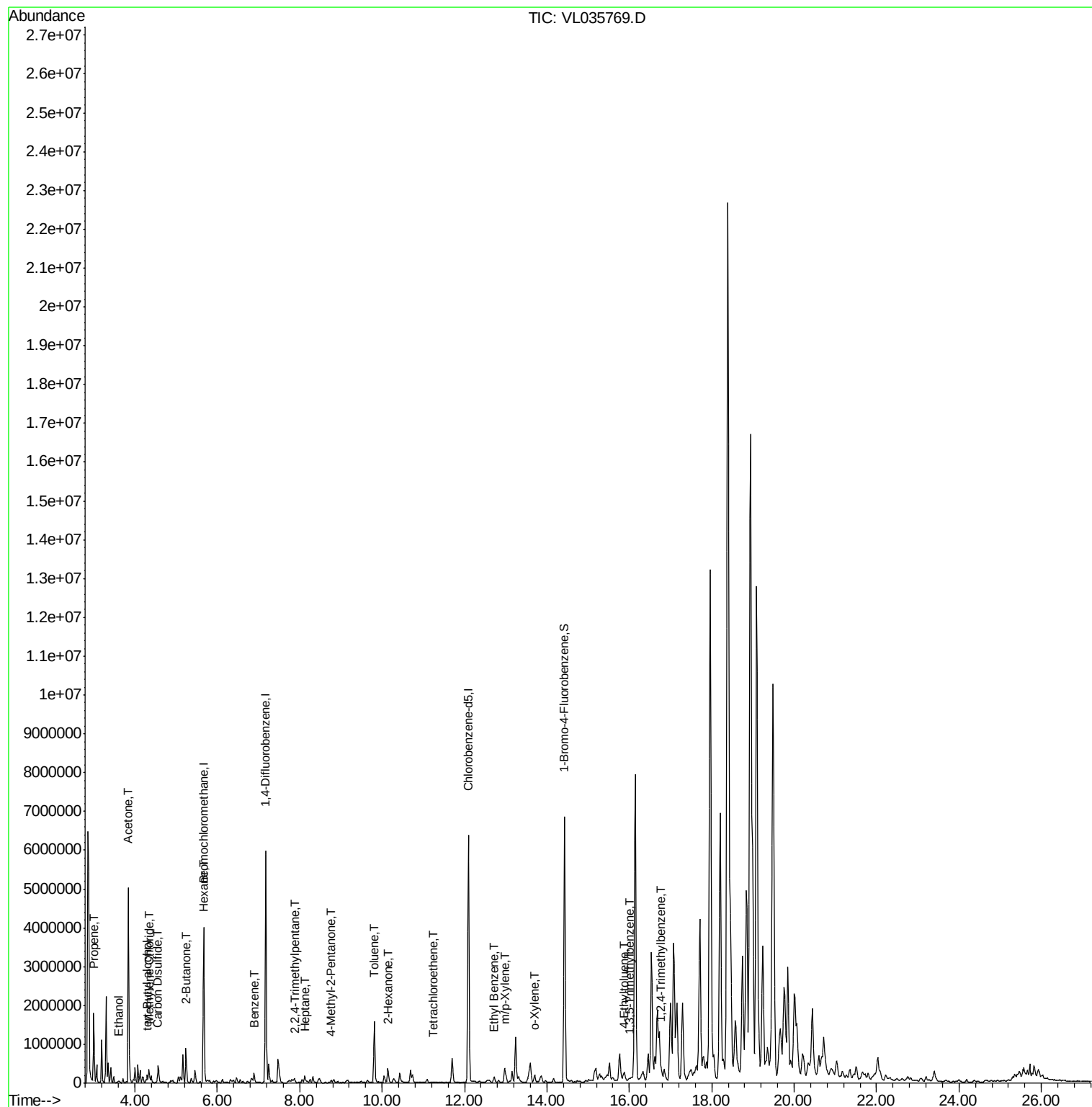
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101220\
Data File : VL035769.D
Acq On : 12 Oct 2020 19:55
Operator : SY/AP
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Misc : 400ml/MSVOA L
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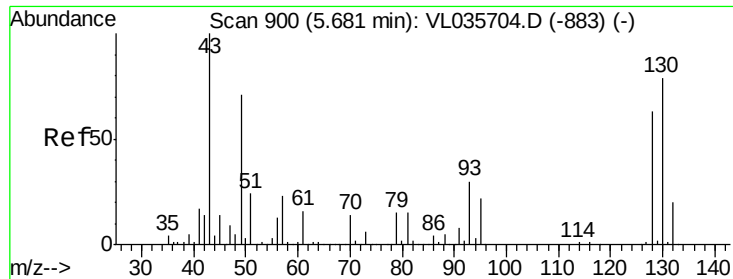
Instrument :
MSVOA_L
ClientSampleId :
5DL

Manual Integrations
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10/14/2020 2:11:49 PM

Quant Time: Oct 13 03:41:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

5DL

Tot Ion: 49 Resp: 1238280

Ion Ratio Lower Upper

49 100

128 87.5 43.1 129.4

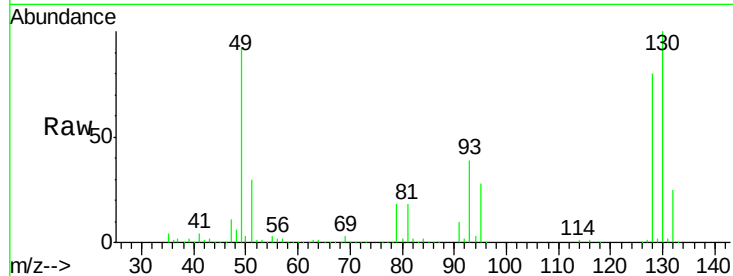
130 111.5 54.9 164.7

Manual Integrations

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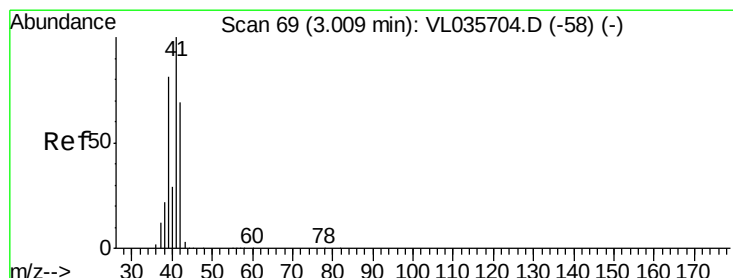
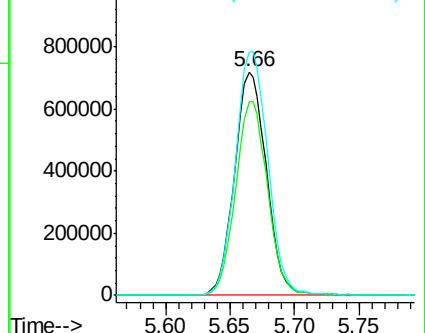
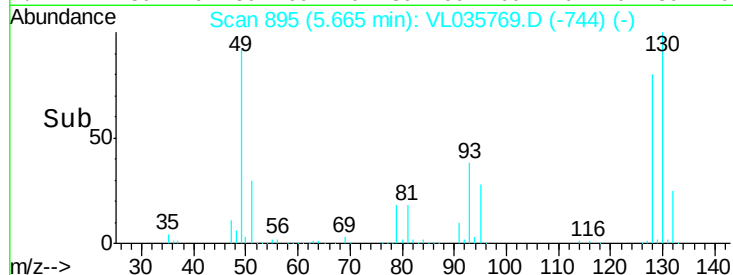
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 14.849 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035769.D

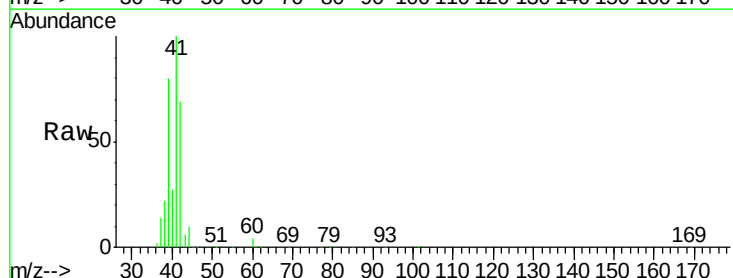
Acq: 12 Oct 2020 19:55

Tgt Ion: 41 Resp: 718218

Ion Ratio Lower Upper

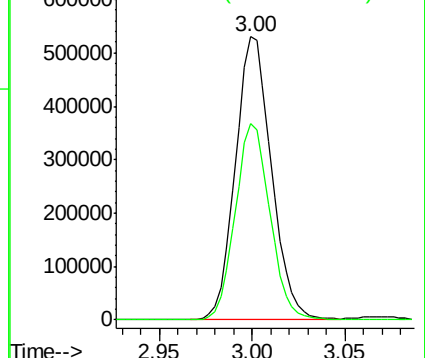
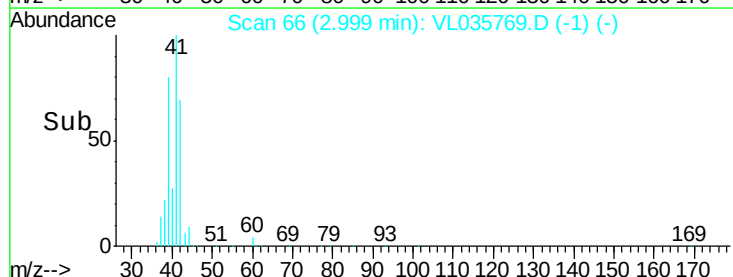
41 100

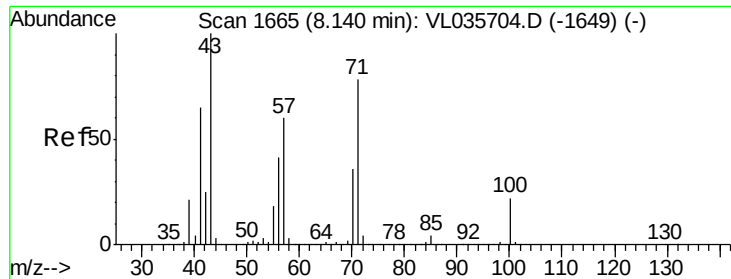
42 66.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





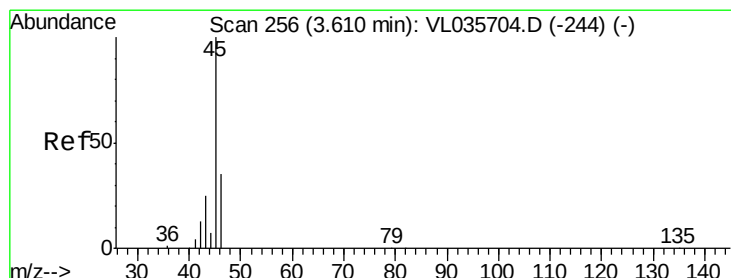
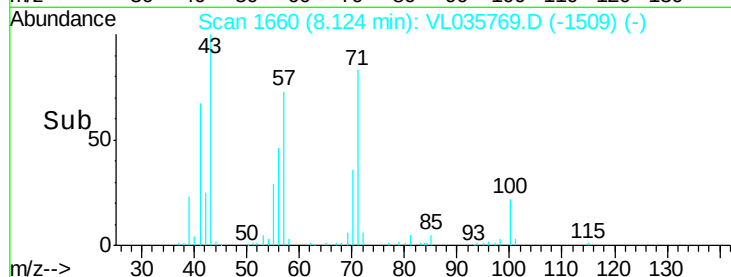
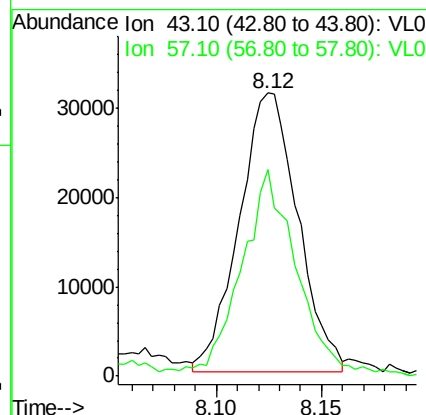
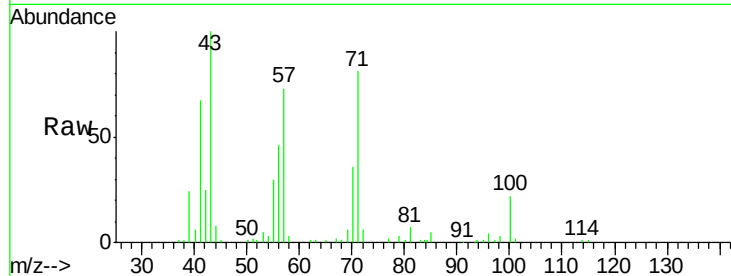
#10
Heptane
Concen: 0.449 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.02 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
5DL

Tot Ion: 43 Resp: 60480
Ion Ratio Lower Upper
43 100
57 69.5 50.4 75.6

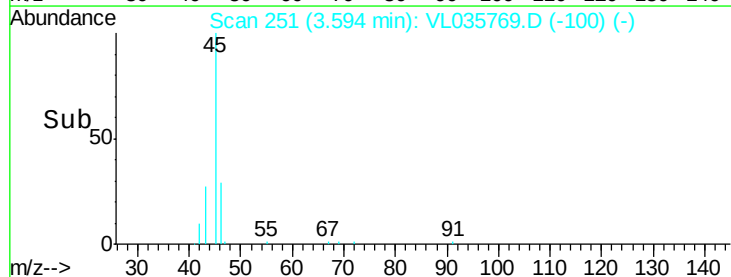
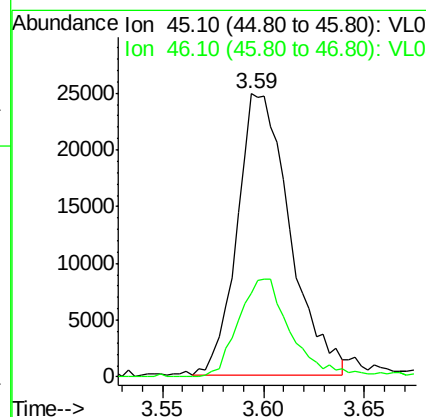
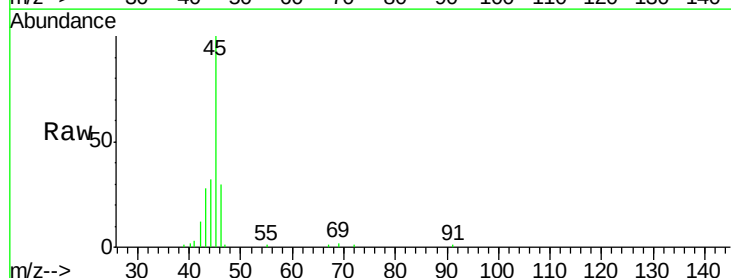
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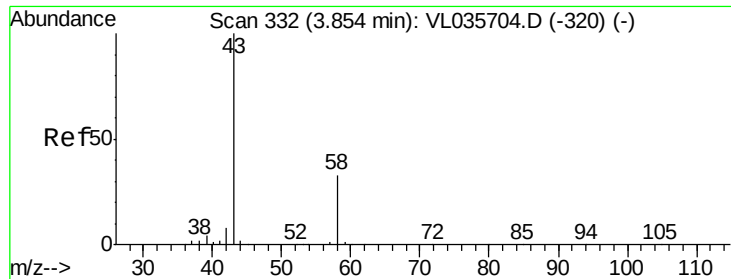
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#13
Ethanol
Concen: 3.797 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.02 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Tgt Ion: 45 Resp: 45289
Ion Ratio Lower Upper
45 100
46 35.9 14.7 58.7





#15

Acetone

Concen: 35.801 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

5DL

Tot Ion: 43 Resp: 4770190

Ion Ratio Lower Upper

43 100

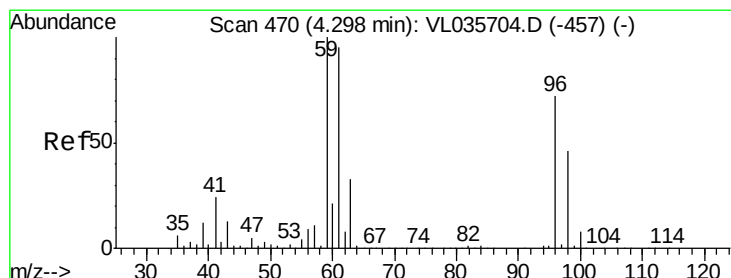
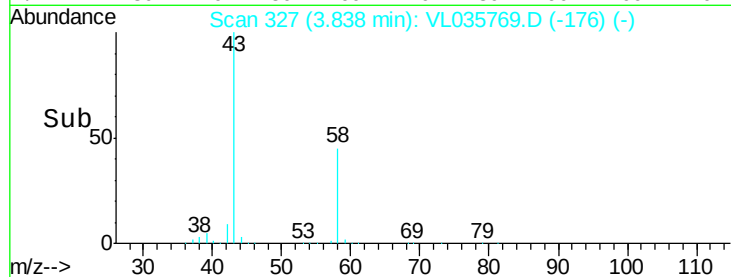
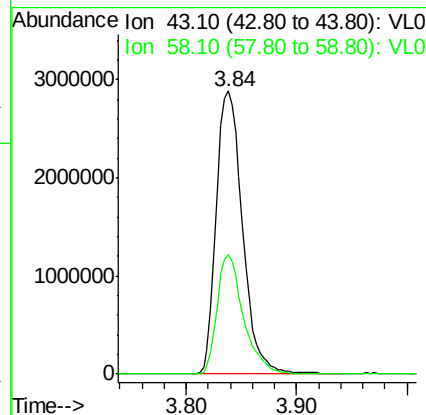
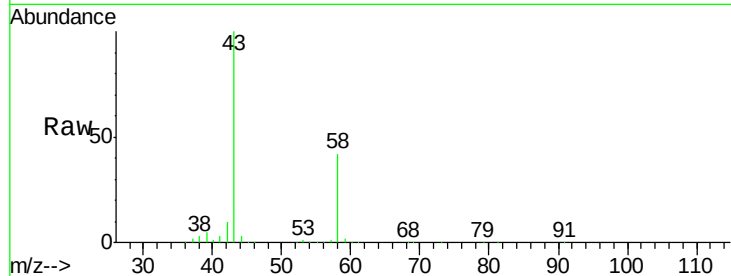
58 42.7 27.3 40.9#

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#17

tert-Butyl alcohol

Concen: 0.523 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035769.D

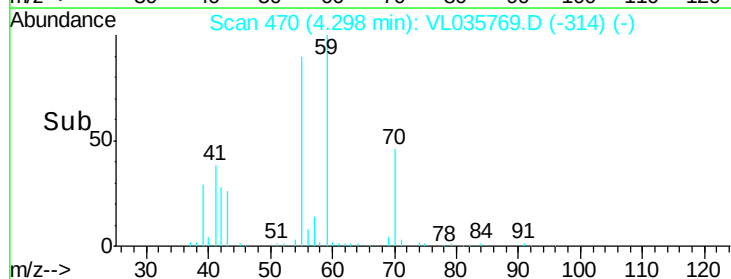
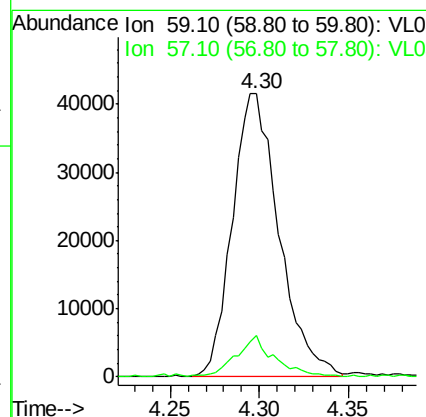
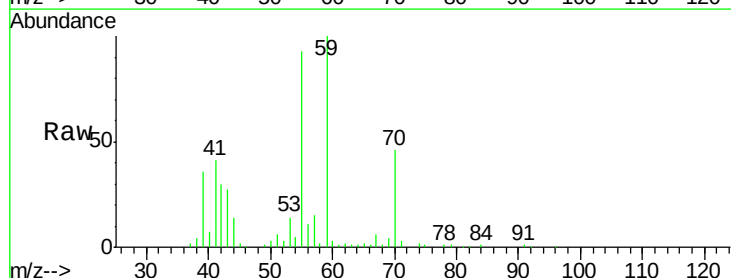
Acq: 12 Oct 2020 19:55

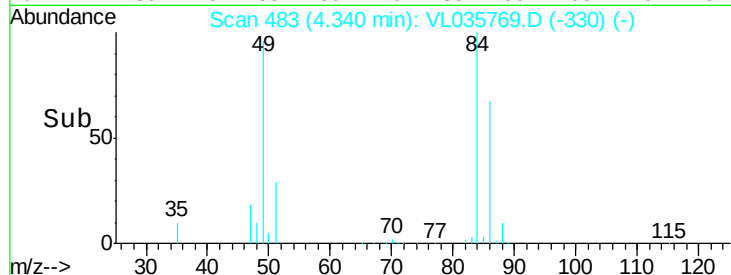
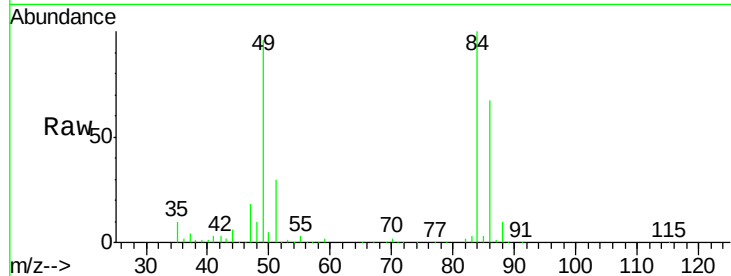
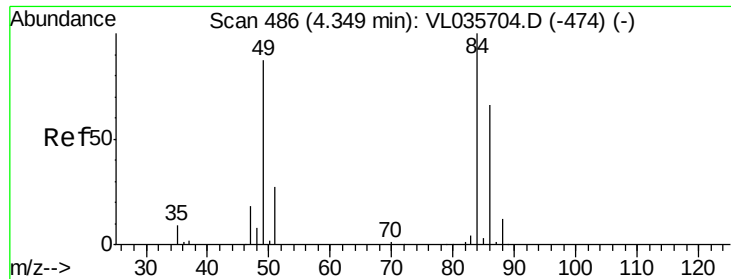
Tgt Ion: 59 Resp: 75839

Ion Ratio Lower Upper

59 100

57 12.2 8.5 12.7





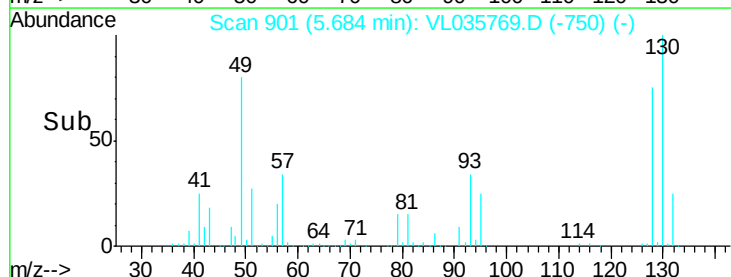
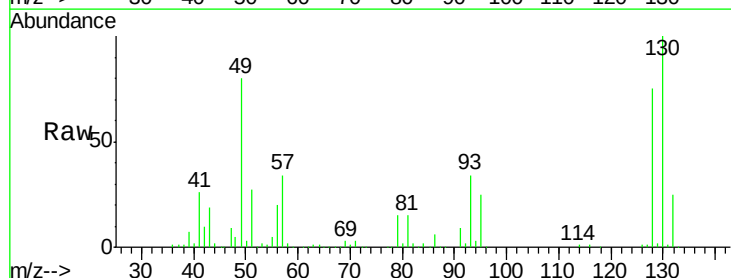
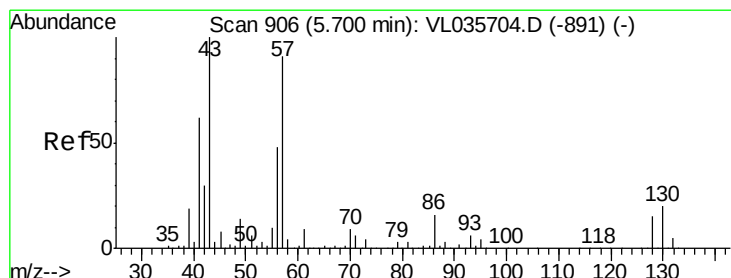
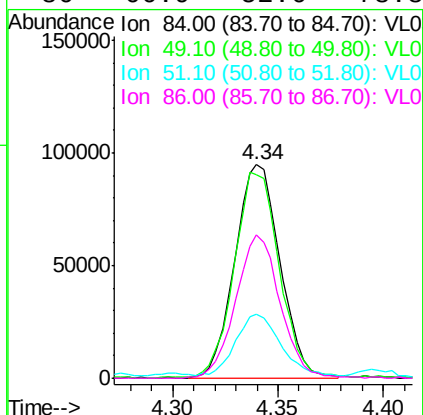
#20
Methylene Chloride
Concen: 1.439 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Tot Ion	84	Resp	140876
Ion Ratio	Lower	Upper	
84	100		
49	95.3	69.8	104.6
51	28.3	21.8	32.8
86	66.9	52.6	78.8

Instrument :
MSVOA_L
ClientSampled :
5DL

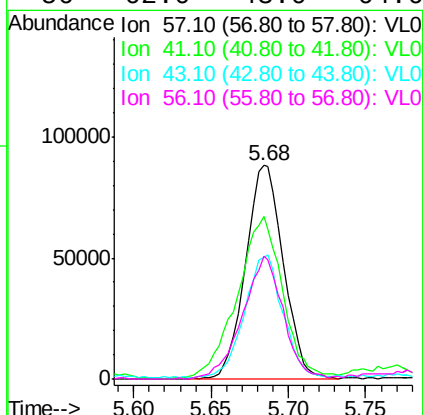
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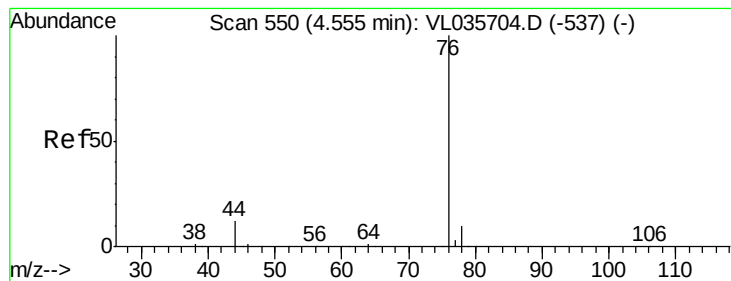
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#26
Hexane
Concen: 1.145 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Tgt Ion	57	Resp	150412
Ion Ratio	Lower	Upper	
57	100		
41	91.1	57.9	86.9#
43	58.7	143.8	215.6#
56	62.0	43.0	64.6





#27

Carbon Disulfide

Concen: 0.583 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

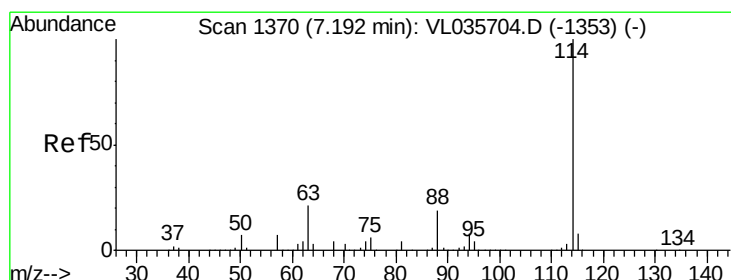
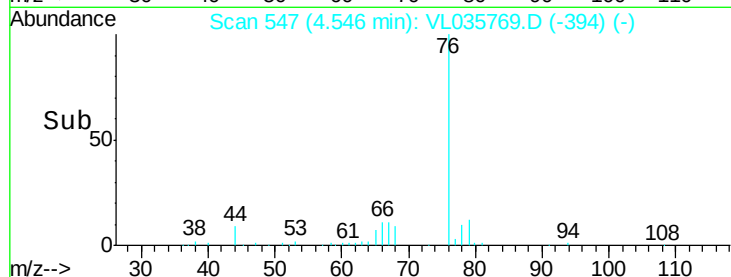
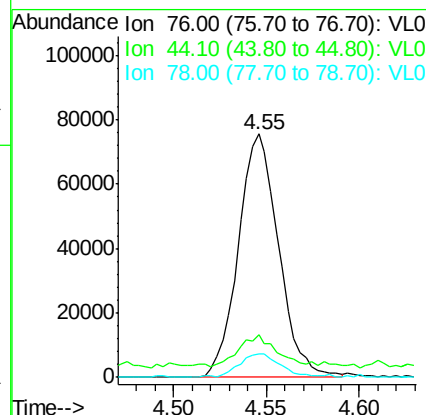
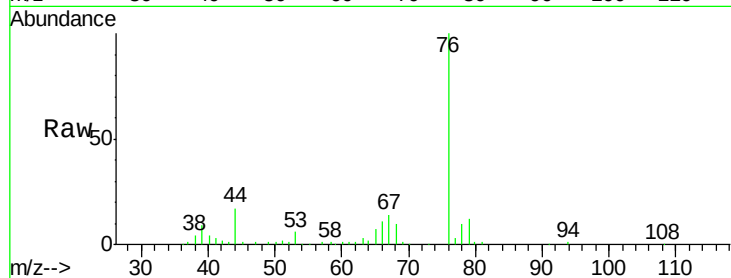
ClientSampled :

5DL

Tot Ion:	76	Resp:	114164
Ion Ratio	Lower	Upper	
76	100		
44	16.3	9.7	14.5#
78	11.0	7.8	11.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

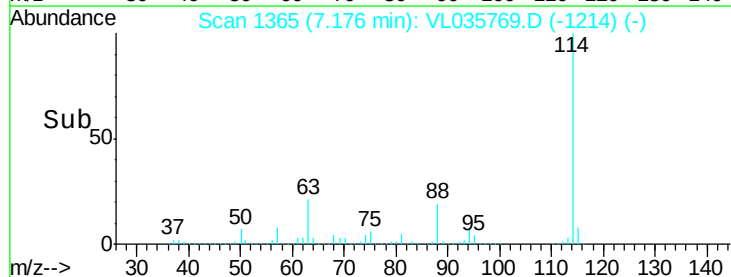
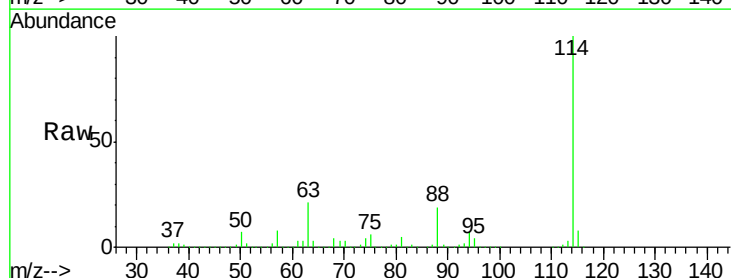
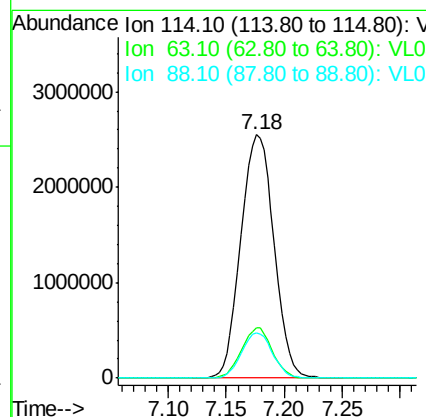
RT: 7.18 min Scan# 1365

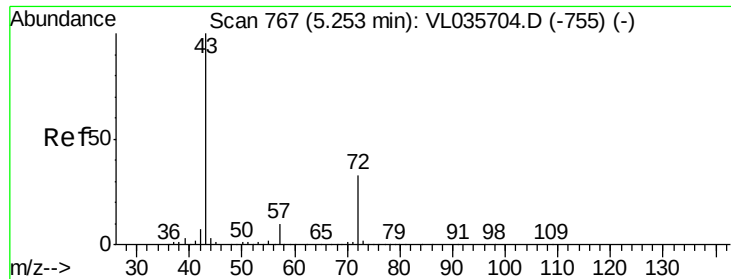
Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Tgt Ion:	114	Resp:	5068542
Ion Ratio	Lower	Upper	
114	100		
63	19.2	16.1	24.1
88	17.6	14.1	21.1





#34

2-Butanone

Concen: 5.230 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

5DL

Tot Ion: 43 Resp: 876852

Ion Ratio Lower Upper

43 100

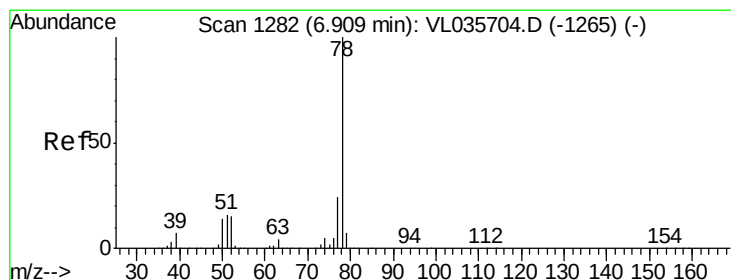
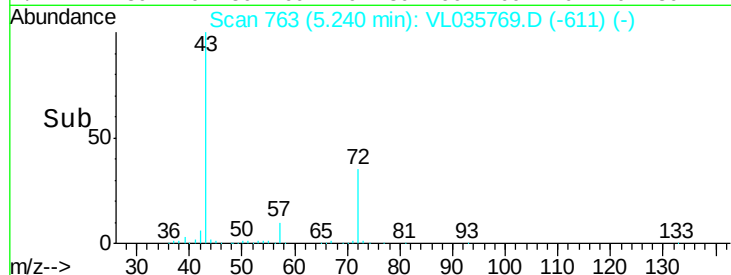
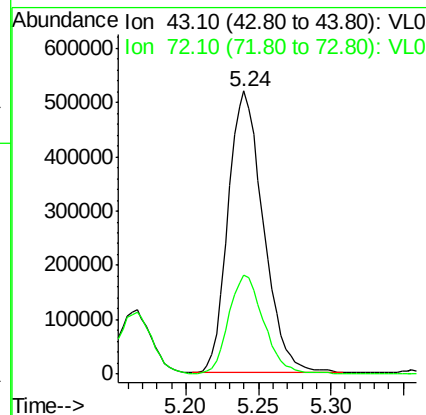
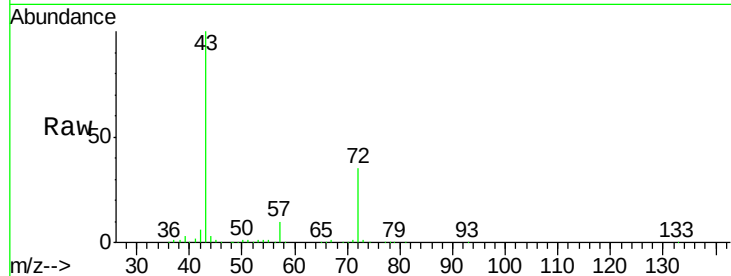
72 35.3 26.1 39.1

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#36

Benzene

Concen: 0.718 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

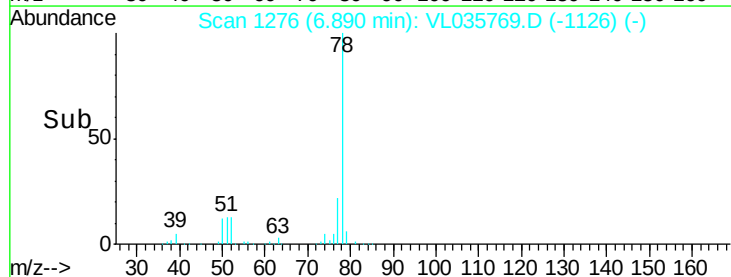
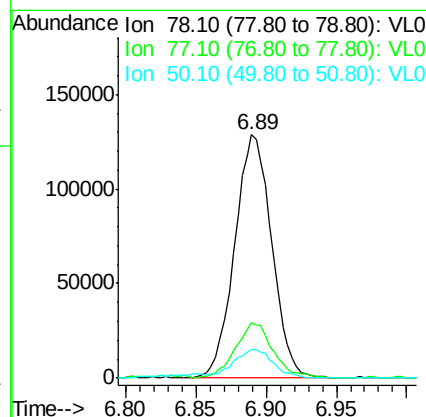
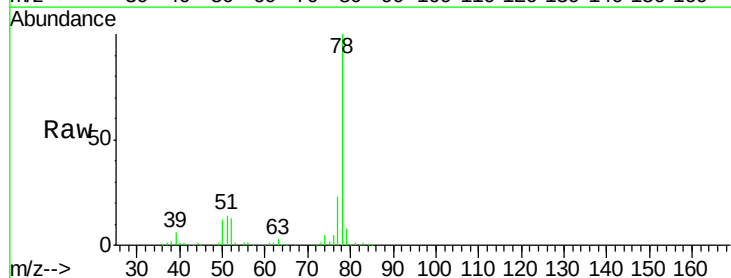
Tgt Ion: 78 Resp: 237073

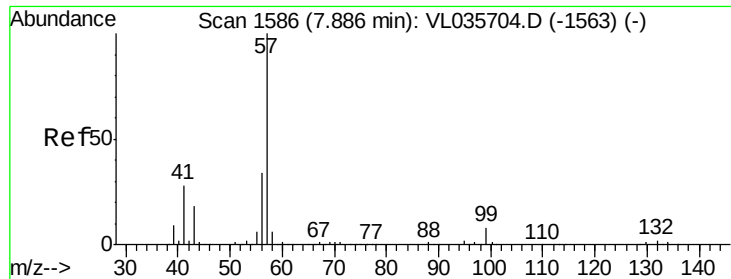
Ion Ratio Lower Upper

78 100

77 22.5 19.3 28.9

50 11.6 11.6 17.4#





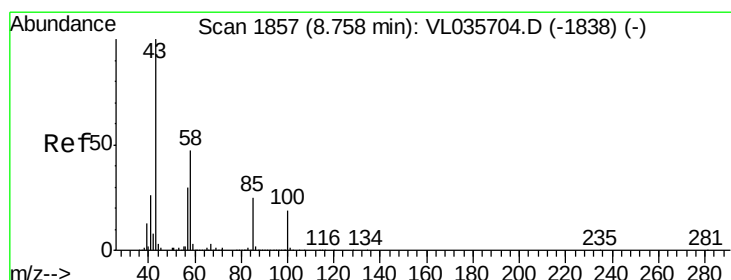
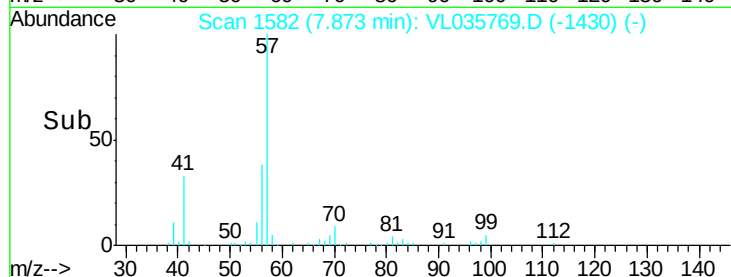
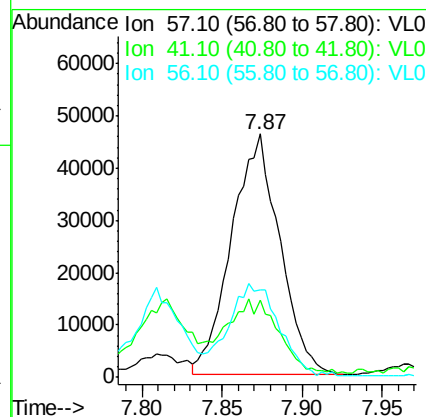
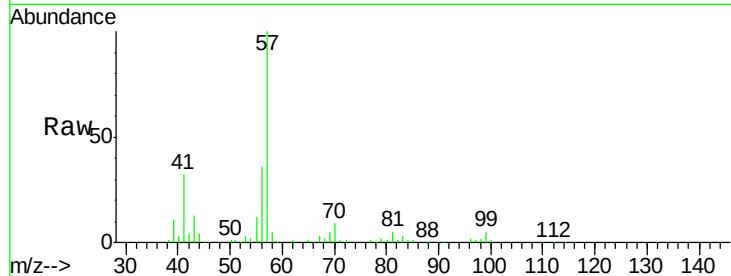
#44
 2,2,4-Trimethylpentane
 Concen: 0.201 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL035769.D
 Acq: 12 Oct 2020 19:55

Instrument :
 MSVOA_L
 ClientSampled :
 5DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	33.6	21.2	31.8#
56	39.7	25.8	38.8#

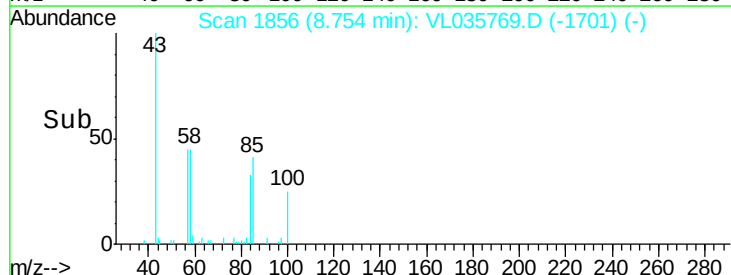
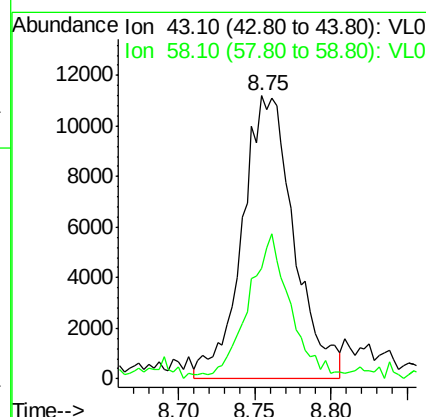
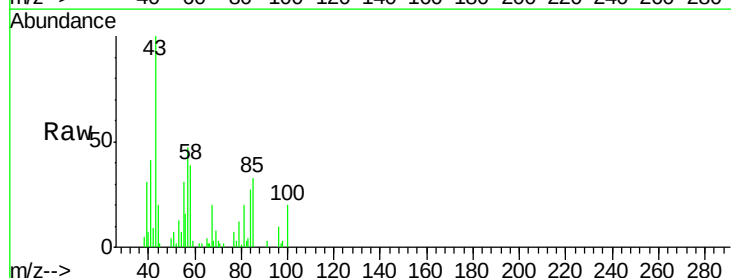
Manual Integrations
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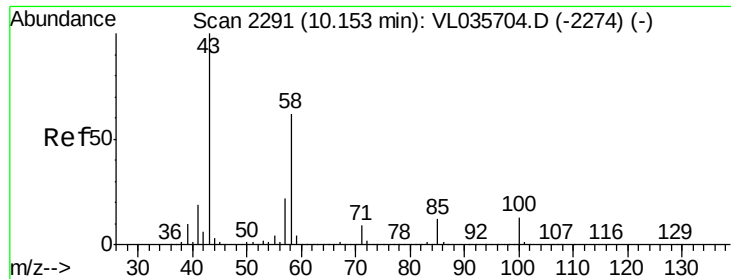
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#50
 4-Methyl-2-Pentanone
 Concen: 0.109 ppbv m
 RT: 8.75 min Scan# 1856
 Delta R.T. -0.00 min
 Lab File: VL035769.D
 Acq: 12 Oct 2020 19:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	36.6	54.8#





#51

2-Hexanone

Concen: 1.290 ppbv

RT: 10.14 min Scan# 2288

Delta R.T. -0.01 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

5DL

Tot Ion: 43 Resp: 254457
Ion Ratio Lower Upper

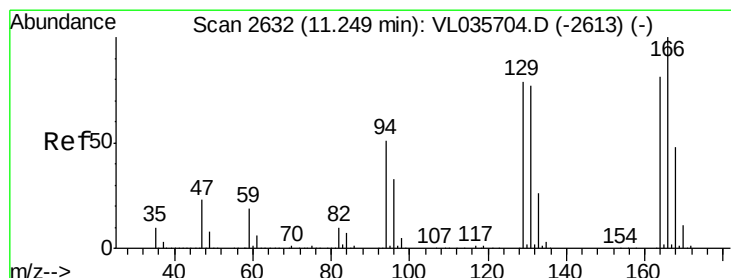
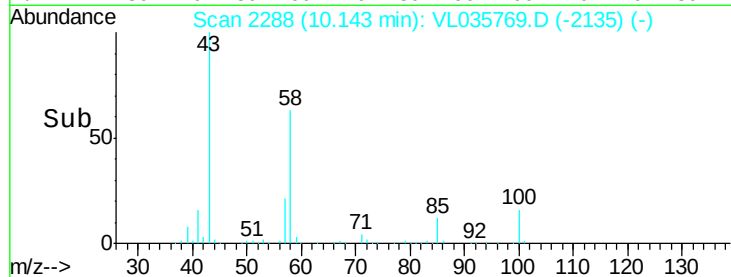
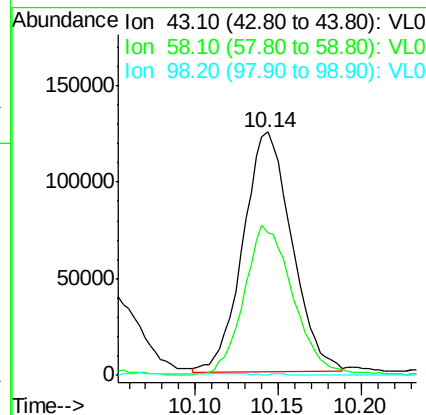
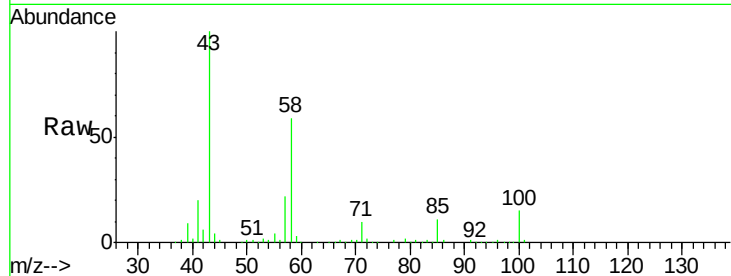
43 100

58 63.5 48.7 73.1

98 0.4 0.7 1.1#

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#52

Tetrachloroethene

Concen: 0.031 ppbv m

RT: 11.22 min Scan# 2624

Delta R.T. -0.03 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

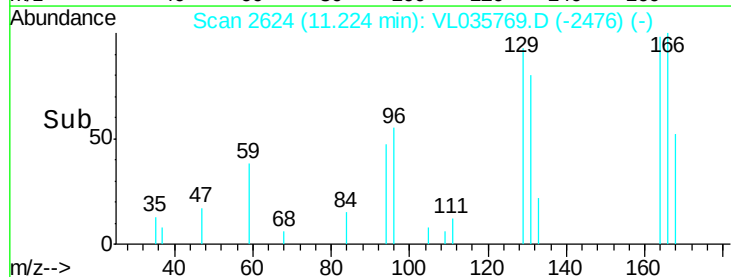
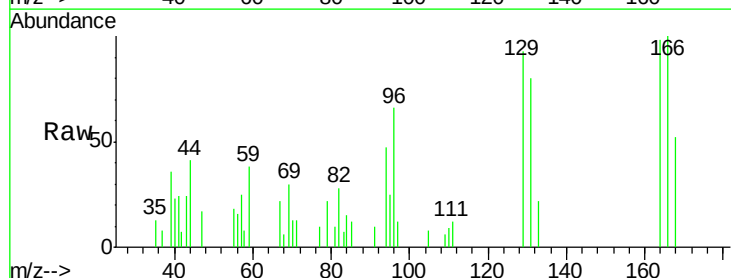
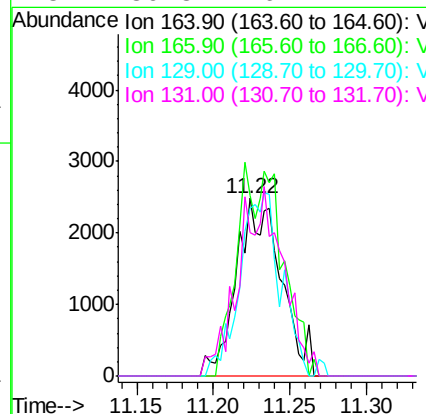
Tgt Ion: 164 Resp: 4981
Ion Ratio Lower Upper

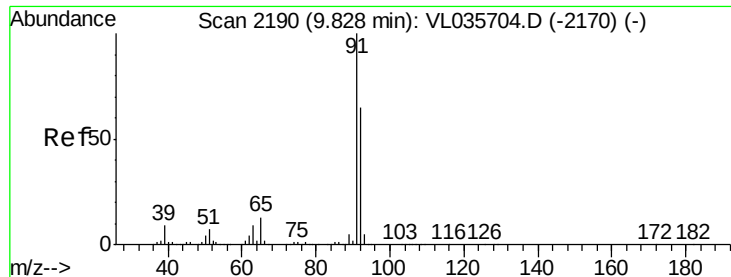
164 100

166 101.5 98.7 148.1

129 94.9 78.4 117.6

131 80.8 76.2 114.2





#53

Toluene

Concen: 3.575 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

ClientSampleId :

5DL

Tot Ion: 91 Resp: 1392370

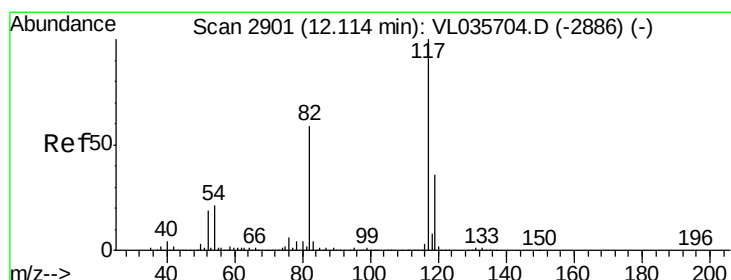
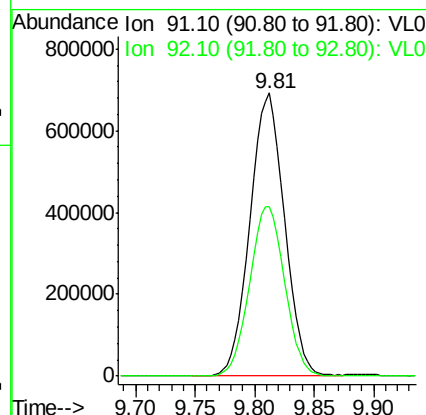
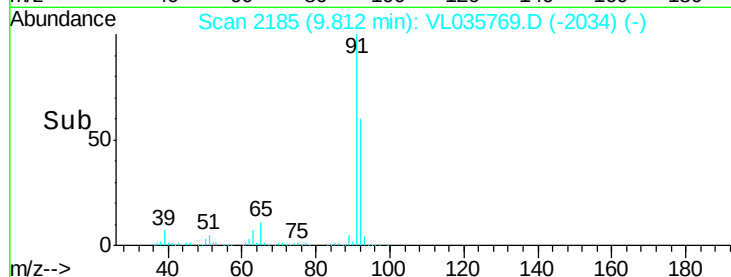
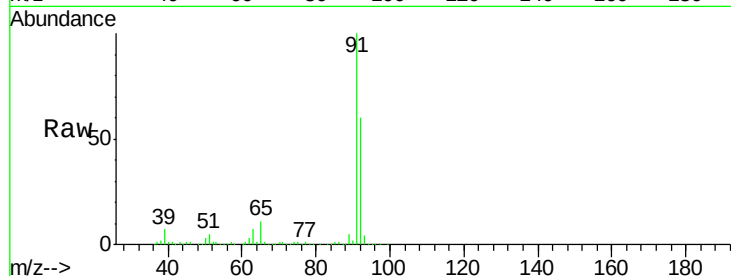
Ion Ratio Lower Upper

91 100

92 61.2 50.0 75.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

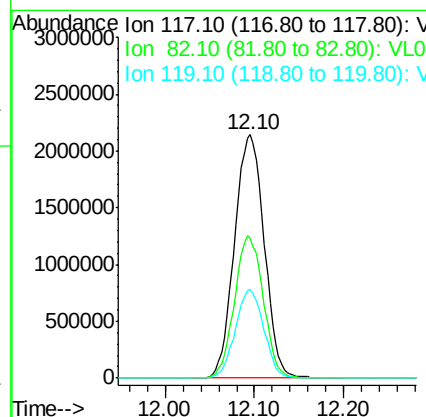
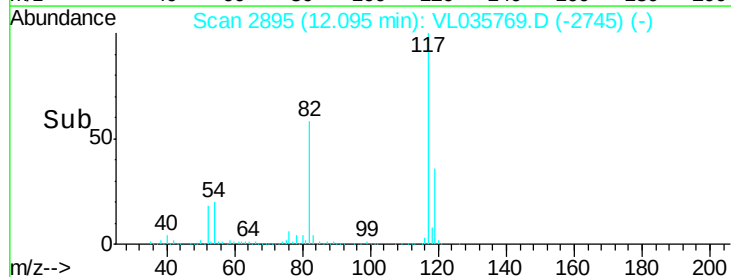
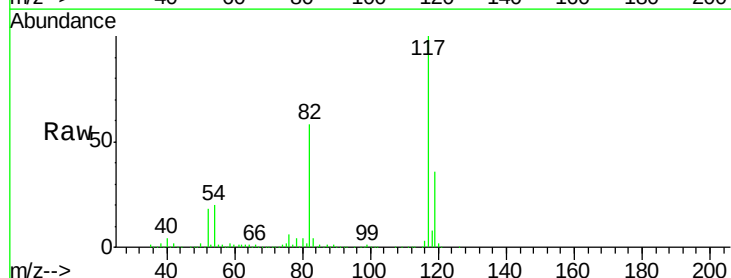
Tgt Ion: 117 Resp: 4955116

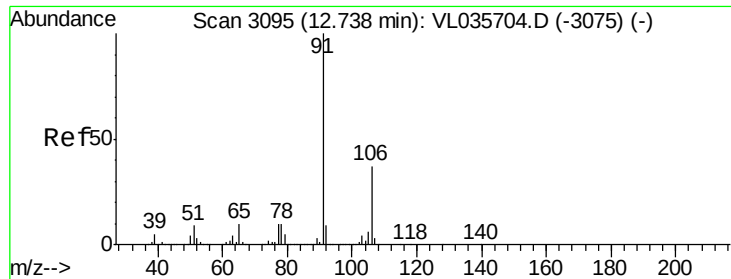
Ion Ratio Lower Upper

117 100

82 57.0 46.1 69.1

119 34.9 28.0 42.0





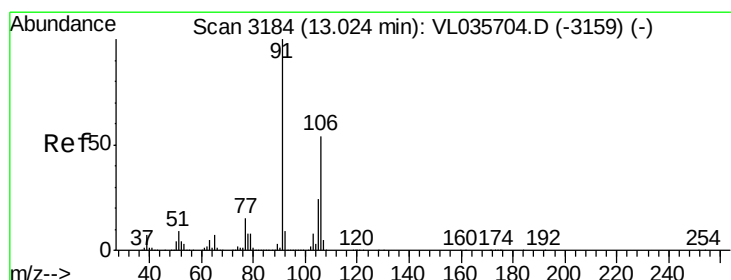
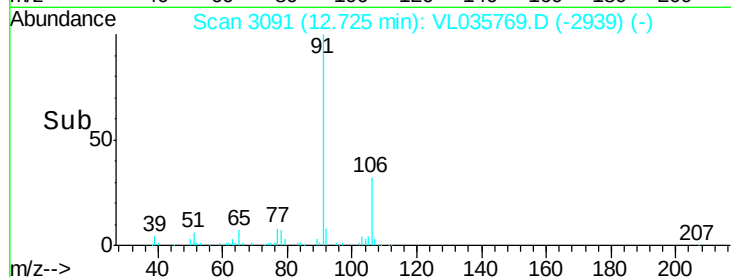
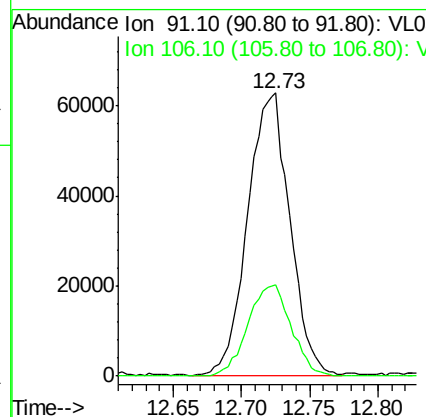
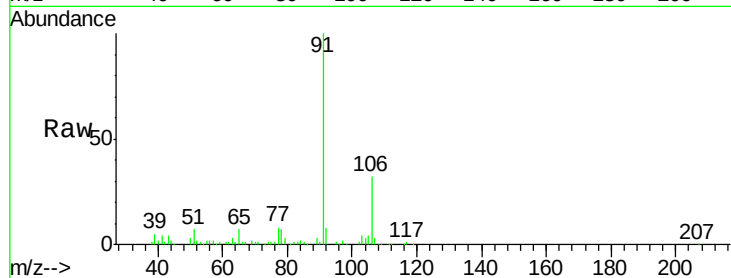
#58
Ethyl Benzene
Concen: 0.273 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
5DL

Tot Ion: 91 Resp: 135667
Ion Ratio Lower Upper
91 100
106 32.2 29.7 44.5

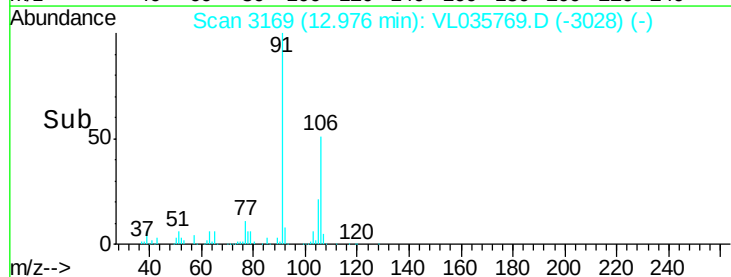
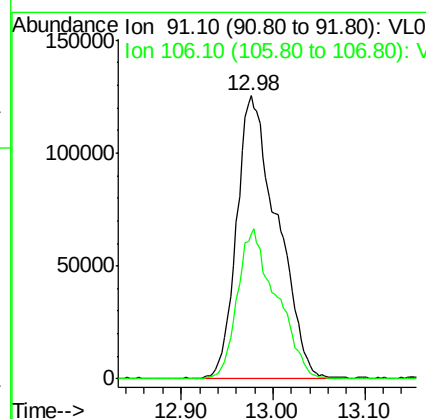
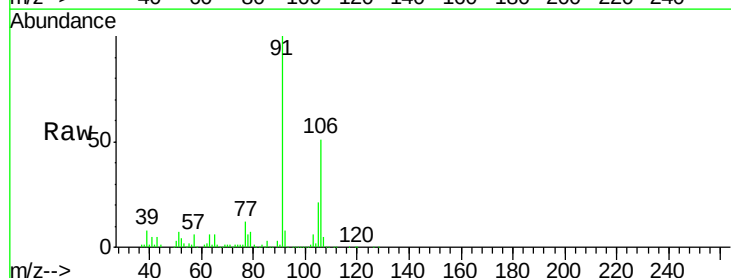
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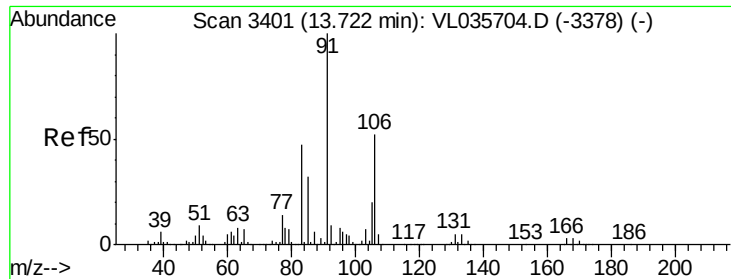
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#59
m/p-Xylene
Concen: 0.887 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.05 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Tgt Ion: 91 Resp: 385222
Ion Ratio Lower Upper
91 100
106 51.1 41.4 62.0





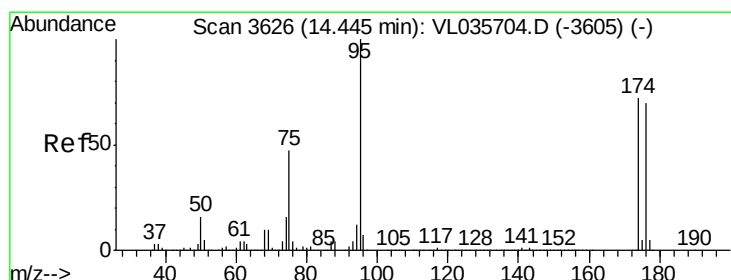
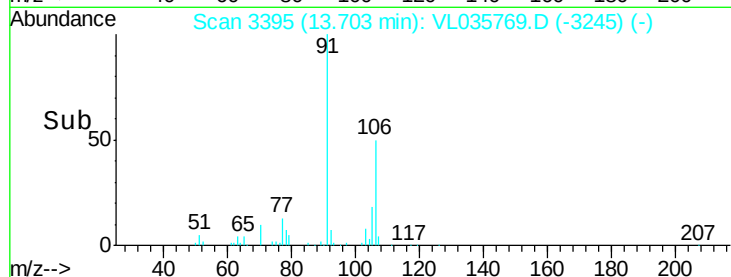
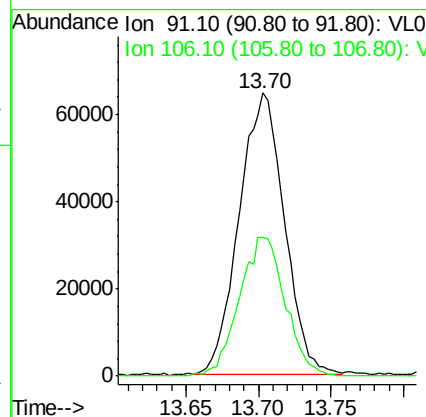
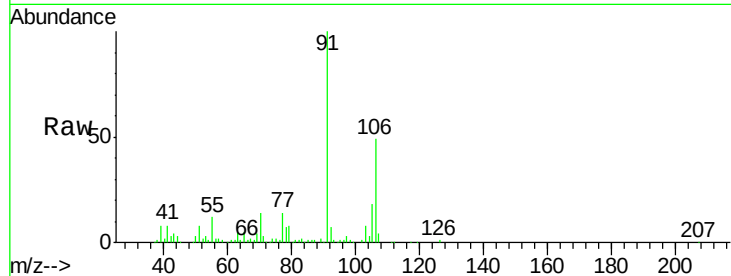
#60
o-Xylene
Concen: 0.319 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.02 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
5DL

Tot Ion: 91 Resp: 140209
Ion Ratio Lower Upper
91 100
106 50.4 25.0 75.0

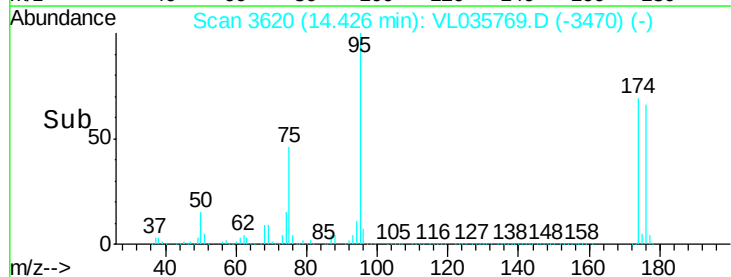
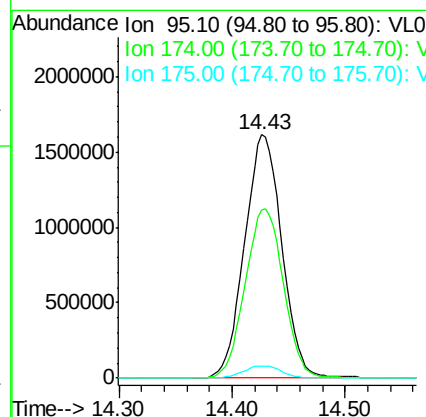
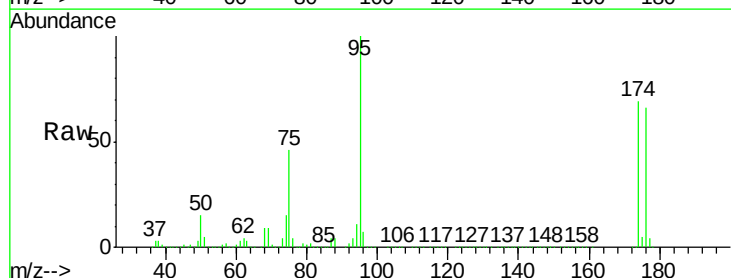
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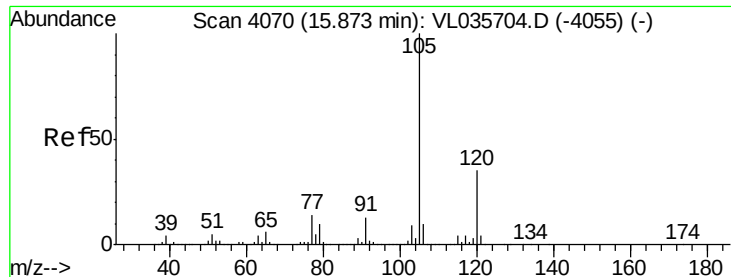
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.947 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. -0.02 min
Lab File: VL035769.D
Acq: 12 Oct 2020 19:55

Tgt Ion: 95 Resp: 3693454
Ion Ratio Lower Upper
95 100
174 72.1 59.6 89.4
175 5.2 4.2 6.4





#72

4-Ethyltoluene

Concen: 0.122 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Instrument :

MSVOA_L

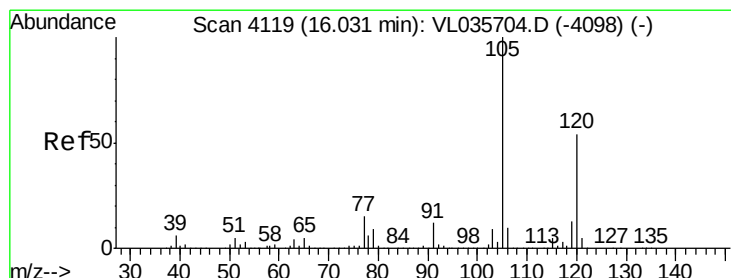
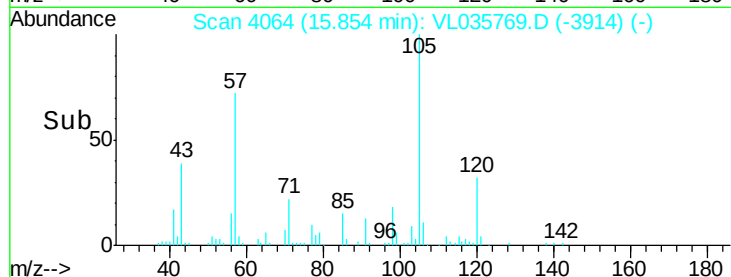
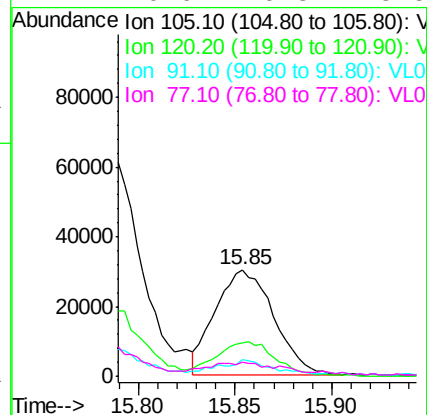
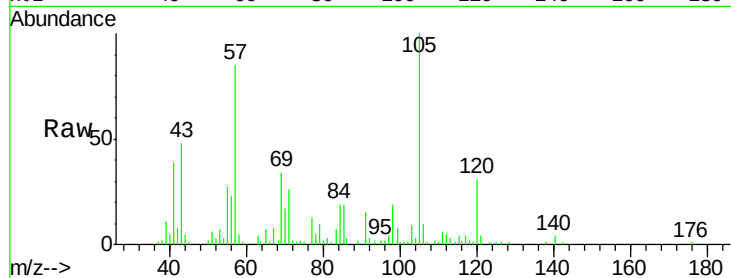
ClientSampled :

5DL

Tot Ion:	105	Resp:	63386
Ion Ratio	Lower	Upper	
105	100		
120	34.5	26.5	39.7
91	14.3	10.2	15.2
77	16.6	10.3	15.5#

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#73

1,3,5-Trimethylbenzene

Concen: 0.107 ppbv

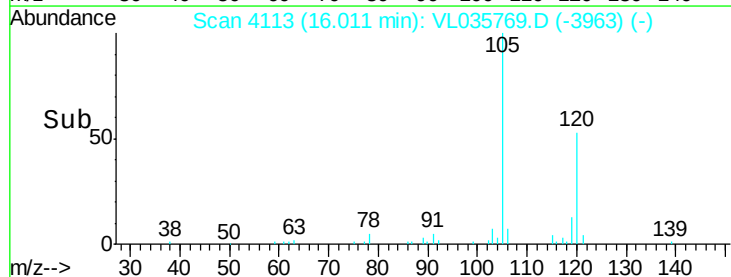
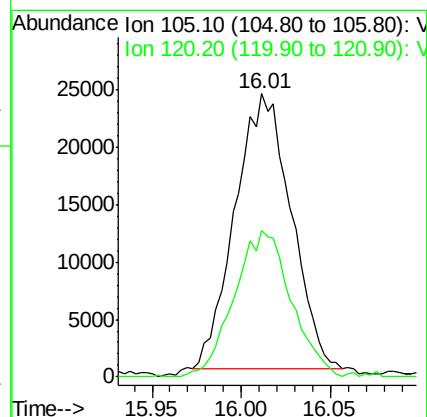
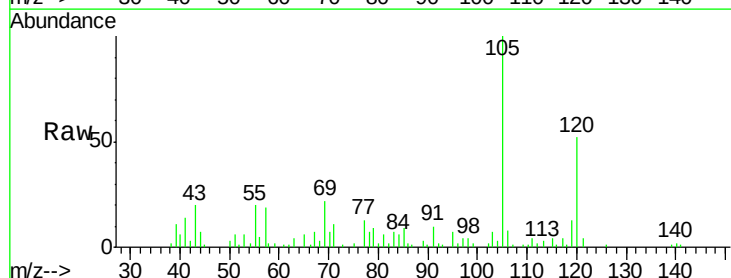
RT: 16.01 min Scan# 4113

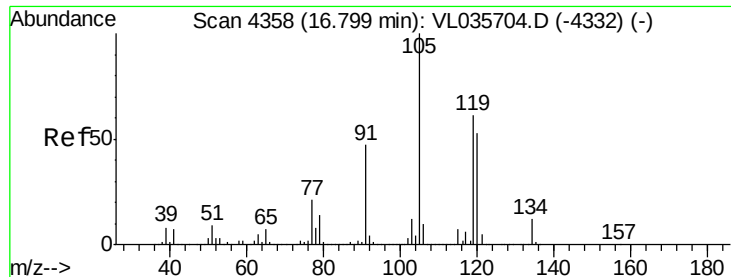
Delta R.T. -0.02 min

Lab File: VL035769.D

Acq: 12 Oct 2020 19:55

Tgt Ion:	105	Resp:	52731
Ion Ratio	Lower	Upper	
105	100		
120	53.1	43.0	64.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.352 ppbv m
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.03 min
 Lab File: VL035769.D
 Acq: 12 Oct 2020 19:55

Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	49.5	42.5	63.7
91	10.7	37.7	56.5#
77	13.2	16.7	25.1#

Manual Integrations
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 10/14/2020 2:11:49 PM

