

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034998.D
 Acq On : 12 May 2020 22:16
 Operator : SY/AP
 Sample : L2567-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 2:08:32 PM

Quant Time: May 14 14:04:40 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	1047375	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2473639	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2293336	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1856084	10.00	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.96	41	34668m	0.668	ppbv	
10) Heptane	8.11	43	33880m	0.261	ppbv	
13) Ethanol	3.56	45	82905	4.842	ppbv	97
15) Acetone	3.81	43	419548m	3.030	ppbv	
19) Isopropyl Alcohol	3.93	45	619610	6.710	ppbv	99
20) Methylene Chloride	4.31	84	21285	0.464	ppbv	91
26) Hexane	5.66	57	93023	0.923	ppbv #	65
30) Cyclohexane	7.11	84	15135m	0.195	ppbv	
36) Benzene	6.88	78	44823m	0.220	ppbv	
41) Tetrahydrofuran	6.04	42	55269m	0.683	ppbv	
52) Tetrachloroethene	11.24	164	11084m	0.153	ppbv	
53) Toluene	9.81	91	6665664	30.832	ppbv	95
58) Ethyl Benzene	12.72	91	259436	0.915	ppbv	93
59) m/p-Xylene	12.98	91	717434	2.875	ppbv #	59
60) o-Xylene	13.71	91	208400	0.846	ppbv	98
61) Styrene	13.55	104	542887	3.484	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	52169	0.179	ppbv #	77

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

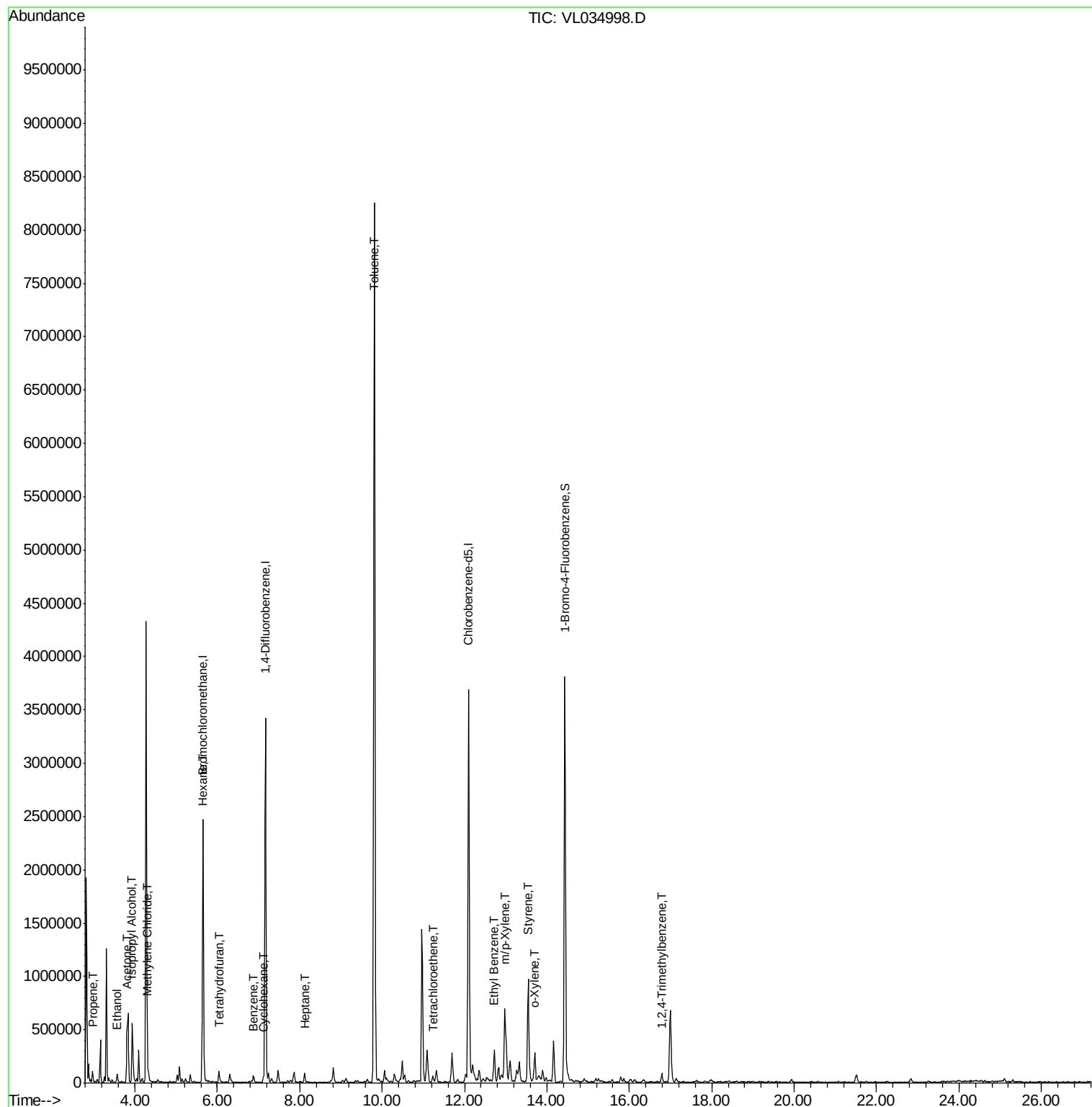
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL034998.D
Acq On : 12 May 2020 22:16
Operator : SY/AP
Sample : L2567-05DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

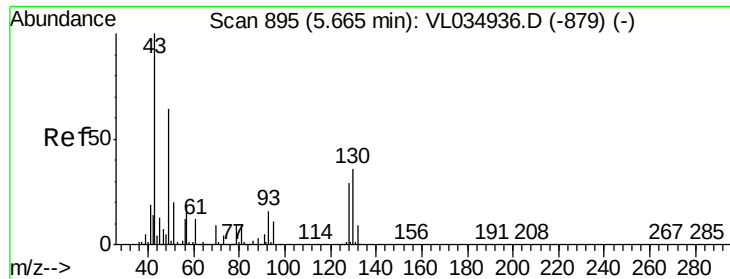
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Manual Integrations
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Quant Time: May 14 14:04:40 2020
Quant Method : Z:\V0ASRV\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

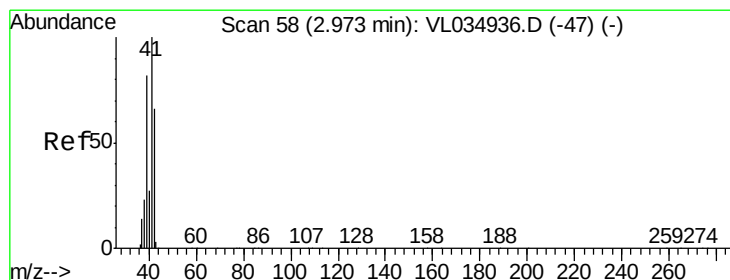
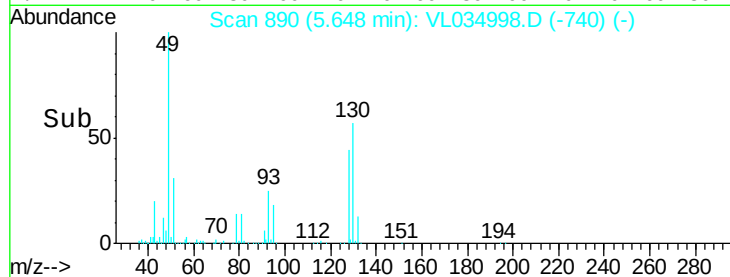
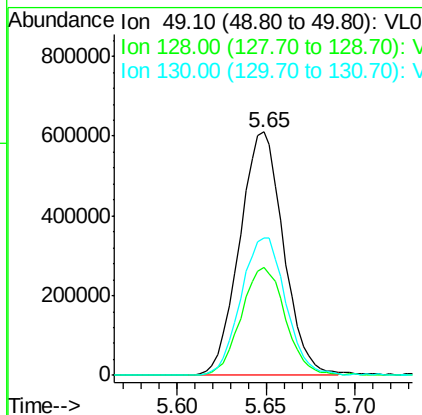
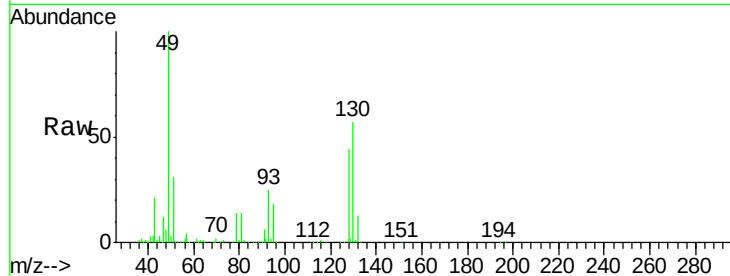
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. -0.02 min
 Lab File: VL034998.D
 Acq: 12 May 2020 22:16

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-3DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.8	22.1	66.5
130	58.2	29.1	87.3

Manual Integrations
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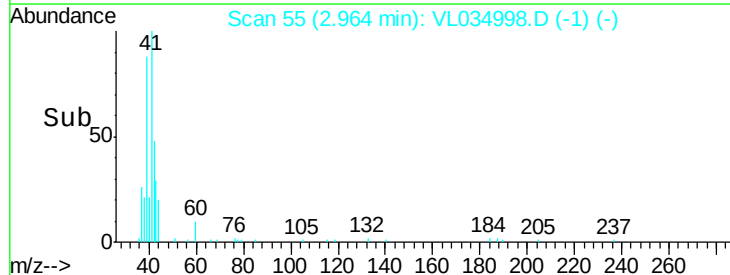
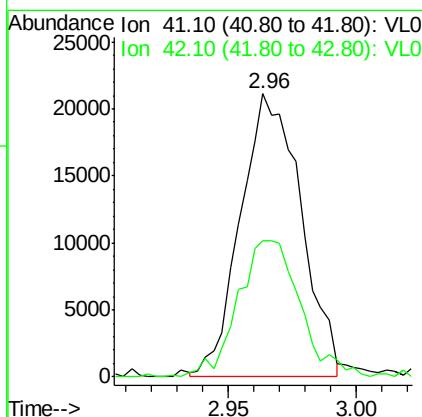
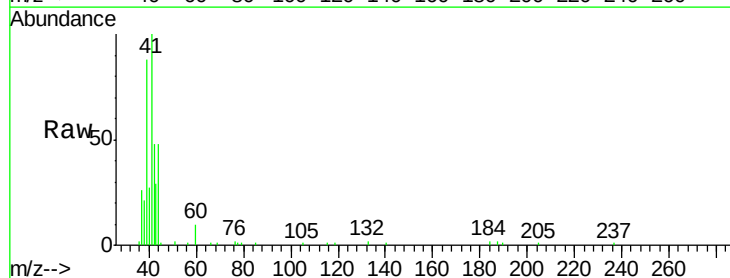
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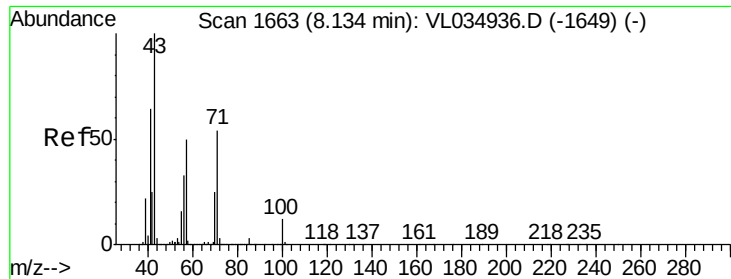


#9

Propene
 Concen: 0.668 ppbv m
 RT: 2.96 min Scan# 55
 Delta R.T. -0.01 min
 Lab File: VL034998.D
 Acq: 12 May 2020 22:16

Tgt Ion	Ratio	Lower	Upper
41	100		
42	0.0	54.5	81.7#





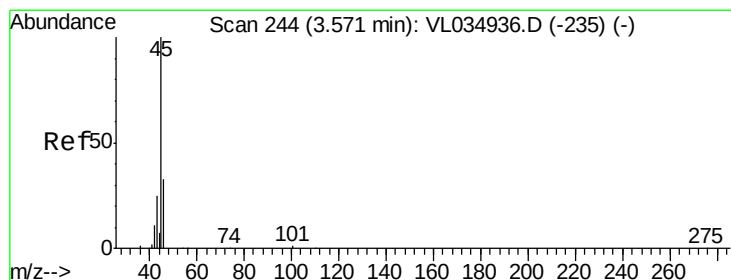
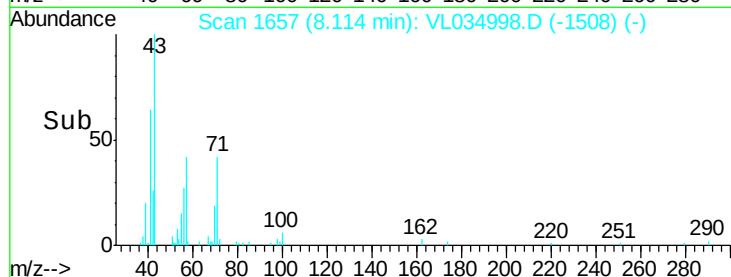
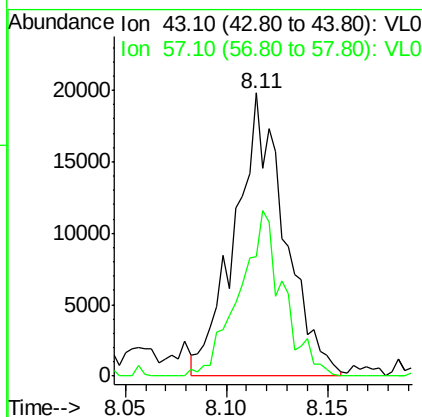
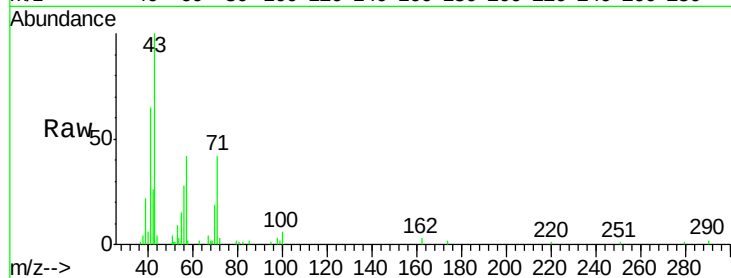
#10
Heptane
Concen: 0.261 ppbv m
RT: 8.11 min Scan# 1657
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion: 43 Resp: 33880
Ion Ratio Lower Upper
43 100
57 0.0 41.1 61.7#

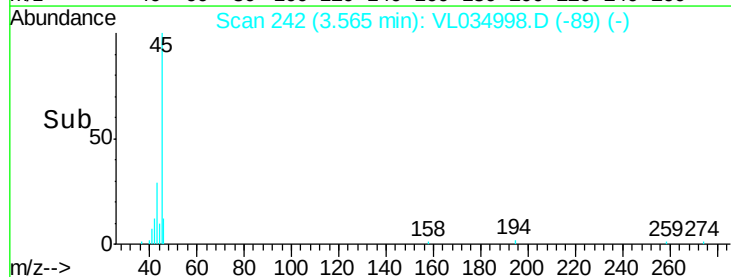
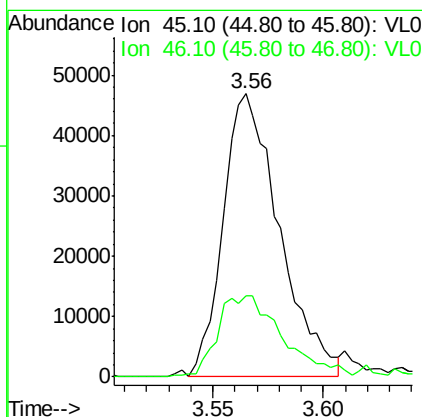
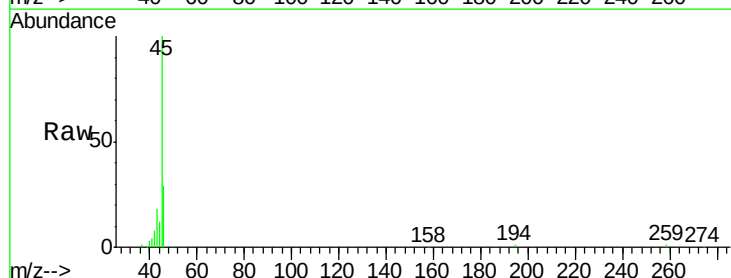
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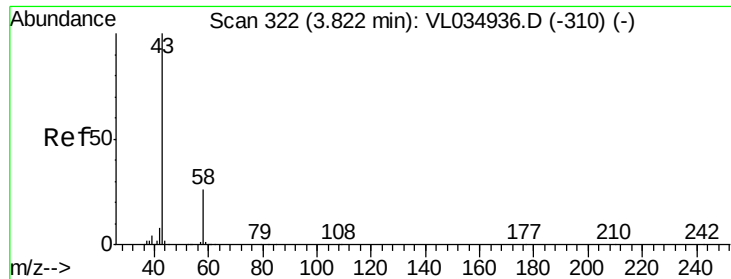
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#13
Ethanol
Concen: 4.842 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion: 45 Resp: 82905
Ion Ratio Lower Upper
45 100
46 34.1 14.3 57.3





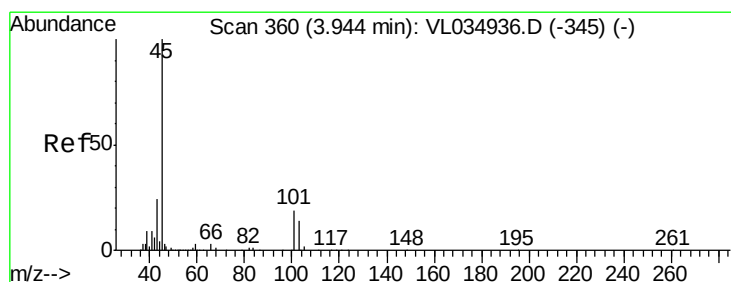
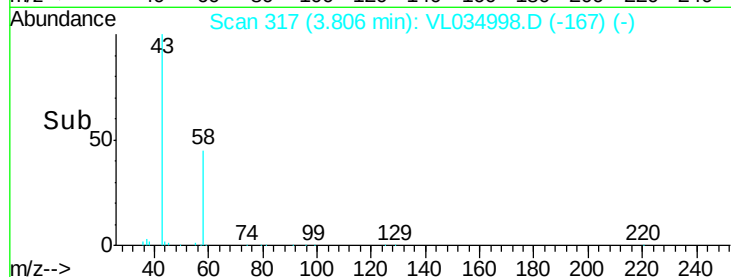
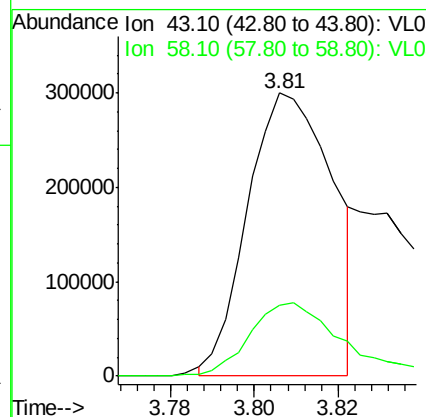
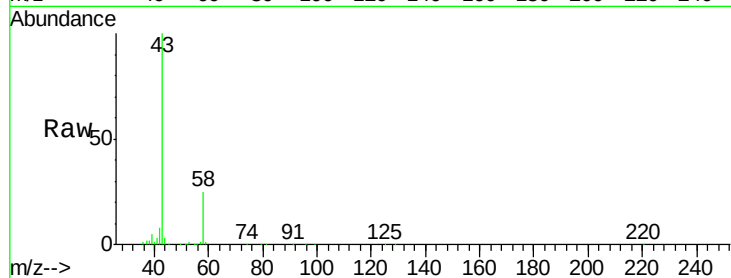
#15
Acetone
Concen: 3.030 ppbv m
RT: 3.81 min Scan# 317
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion: 43 Resp: 419548
Ion Ratio Lower Upper
43 100
58 29.3 21.7 32.5

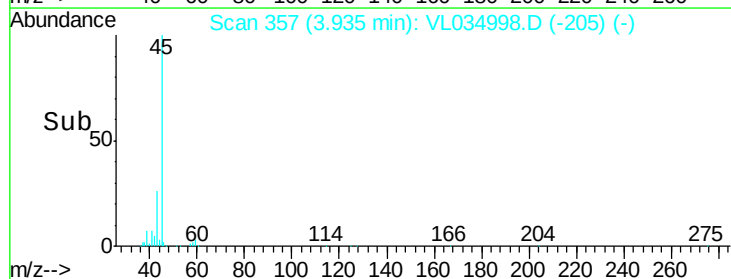
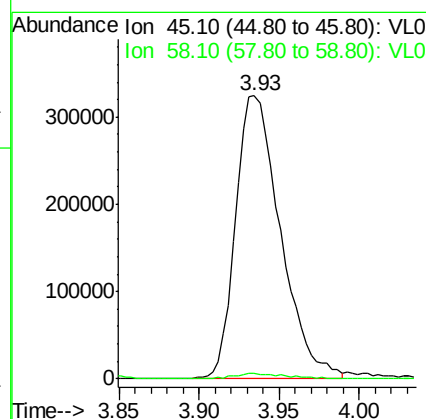
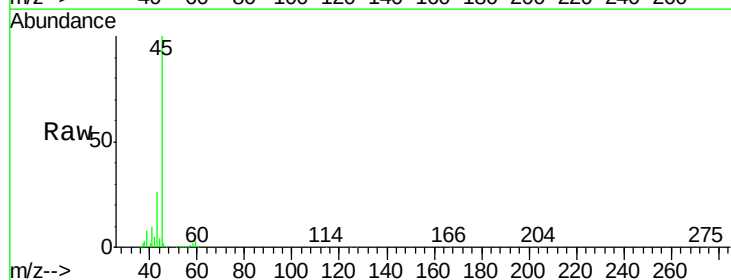
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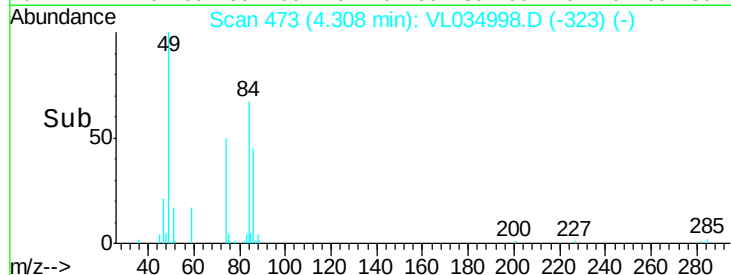
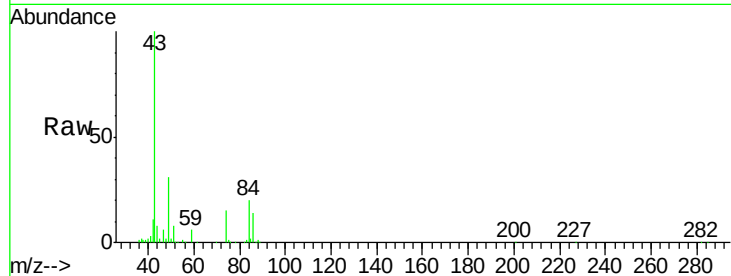
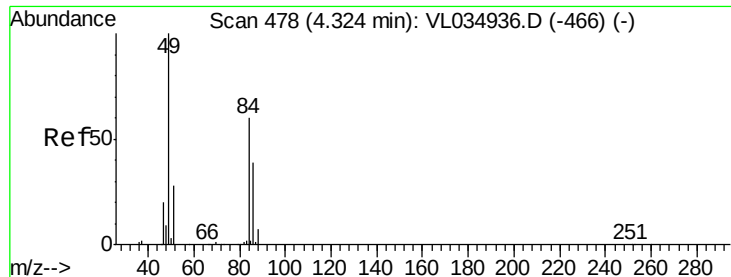
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#19
Isopropyl Alcohol
Concen: 6.710 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.01 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion: 45 Resp: 619610
Ion Ratio Lower Upper
45 100
58 2.5 1.7 2.5





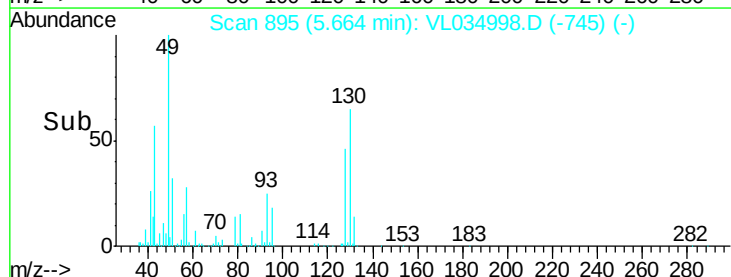
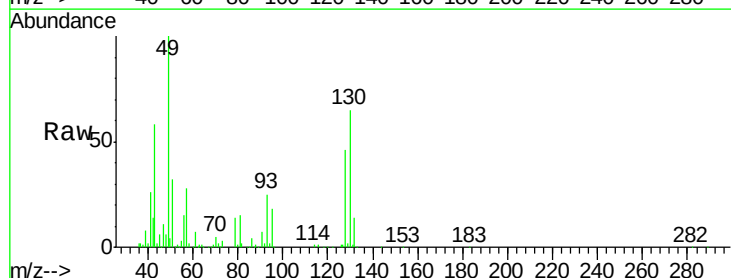
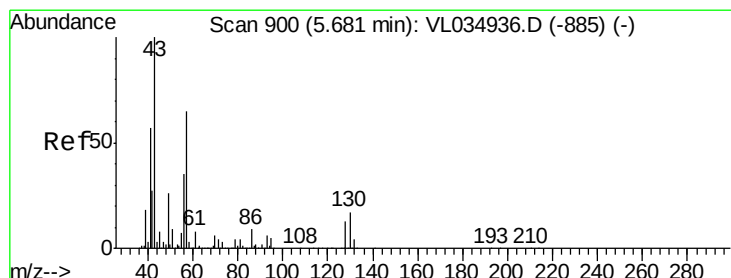
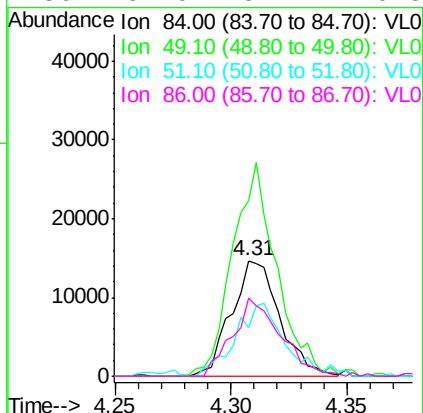
#20
Methvlene Chloride
Concen: 0.464 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tot Ion	84	Resp	21285
Ion	Ratio	Lower	Upper
84	100		
49	150.2	132.5	198.7
51	41.7	38.4	57.6
86	67.0	51.2	76.8

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

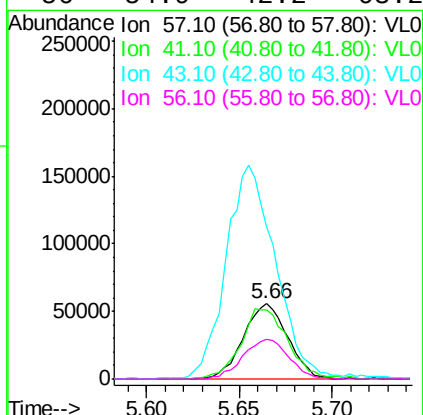
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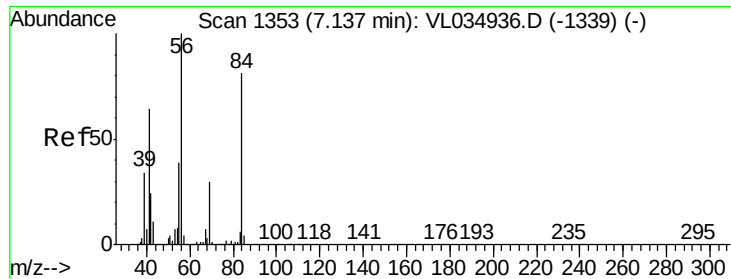
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#26
Hexane
Concen: 0.923 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion	57	Resp	93023
Ion	Ratio	Lower	Upper
57	100		
41	98.1	72.7	109.1
43	315.5	182.1	273.1#
56	54.9	42.2	63.2





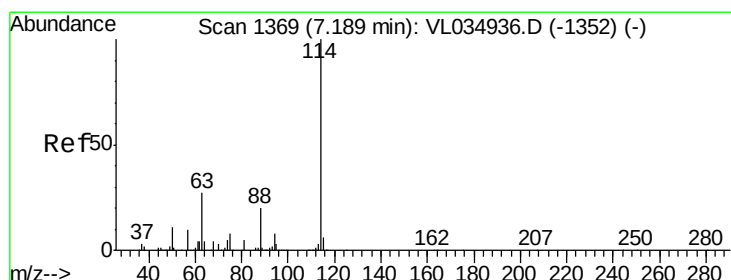
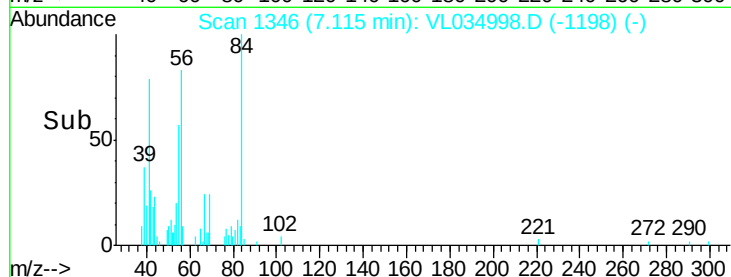
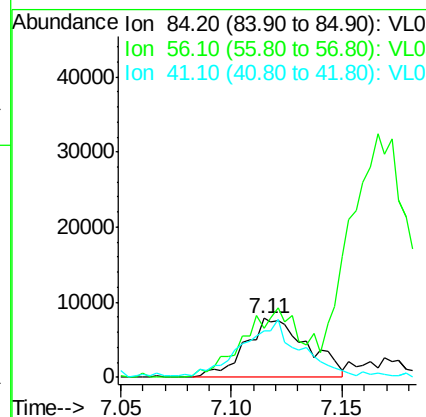
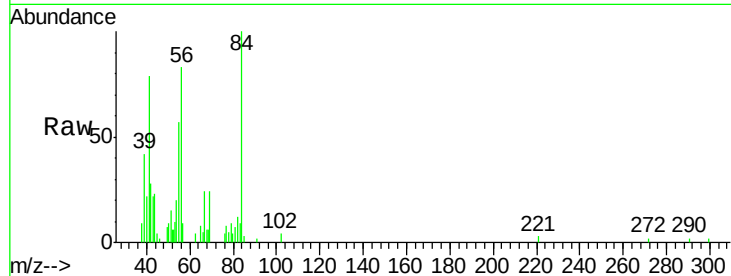
#30
Cyclohexane
Concen: 0.195 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	113.1	111.4	167.2
41	97.0	66.7	100.1

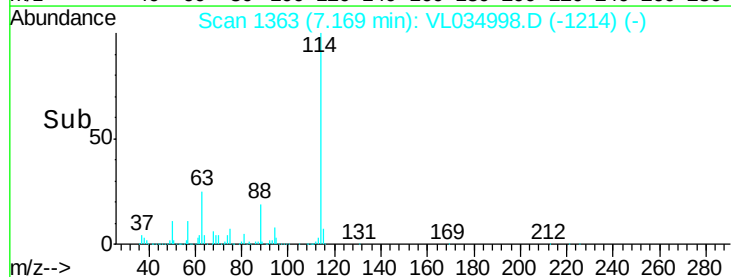
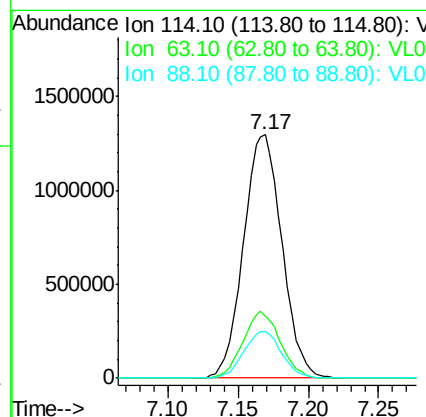
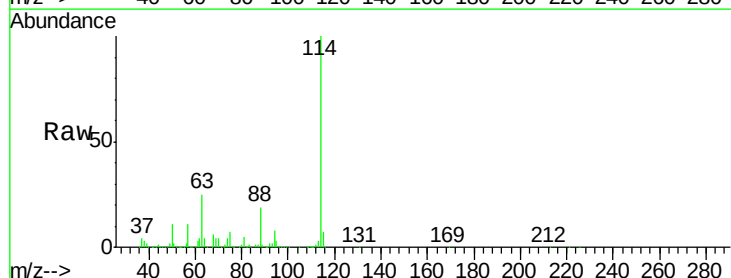
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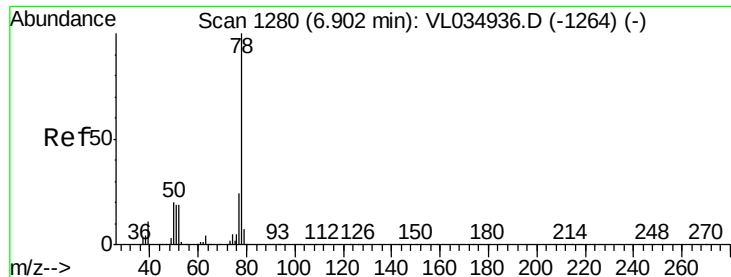
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	19.1	15.5	23.3





#36

Benzene

Concen: 0.220 ppbv m

RT: 6.88 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL034998.D

Acq: 12 May 2020 22:16

Instrument :

MSVOA_L

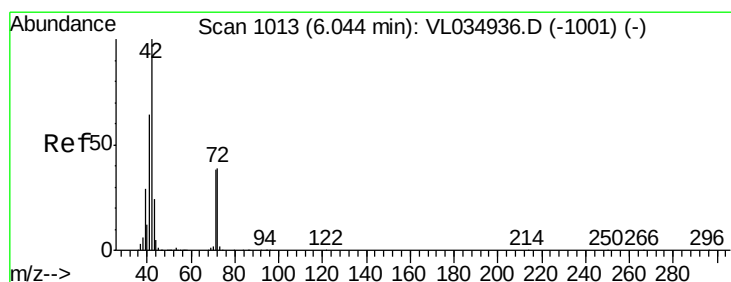
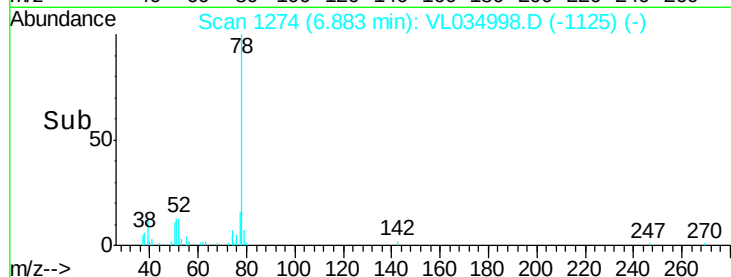
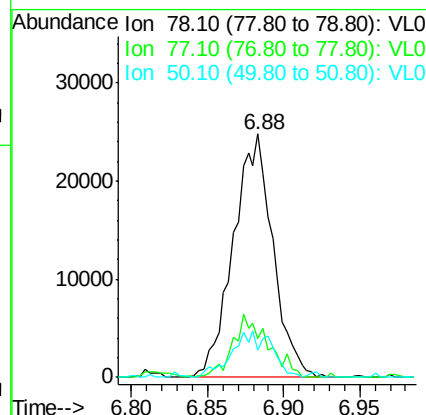
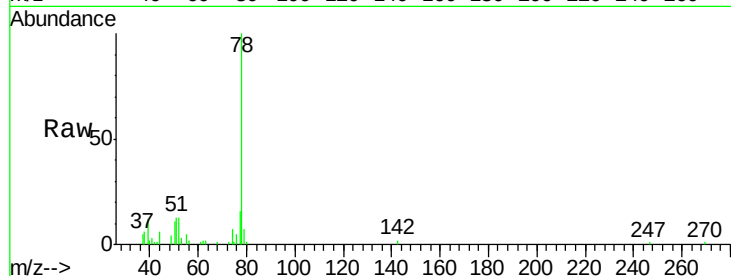
ClientSampled :

IA-3DL

Tot Ion:	78	Resp:	44823
Ion	Ratio	Lower	Upper
78	100		
77	15.8	19.0	28.6#
50	11.4	15.8	23.8#

Manual Integrations
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#41

Tetrahydrofuran

Concen: 0.683 ppbv m

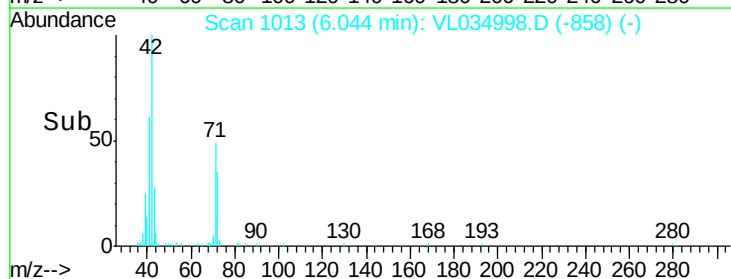
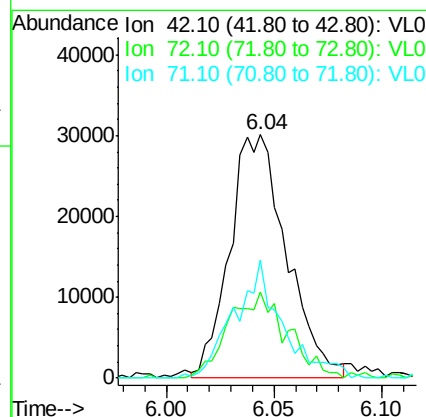
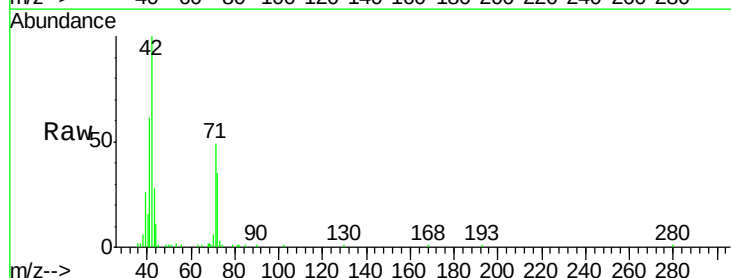
RT: 6.04 min Scan# 1013

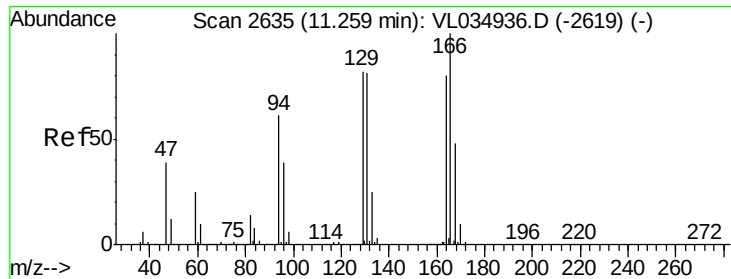
Delta R.T. -0.00 min

Lab File: VL034998.D

Acq: 12 May 2020 22:16

Tgt Ion:	42	Resp:	55269
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	0.0	29.8	44.8#





#52

Tetrachloroethene

Concen: 0.153 ppbv m

RT: 11.24 min Scan# 2629

Delta R.T. -0.02 min

Lab File: VL034998.D

Acq: 12 May 2020 22:16

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion:164 Resp: 11084

Ion Ratio Lower Upper

164 100

166 90.1 100.7 151.1#

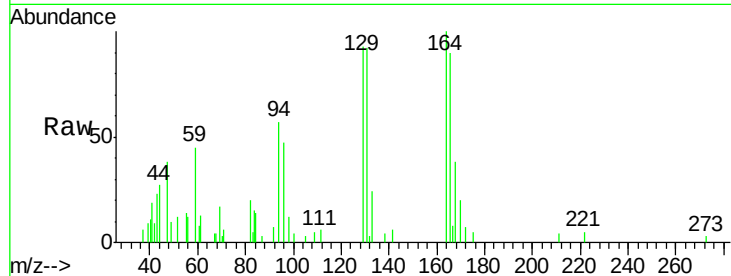
129 93.1 83.0 124.4

131 92.1 81.0 121.4

Manual Integrations
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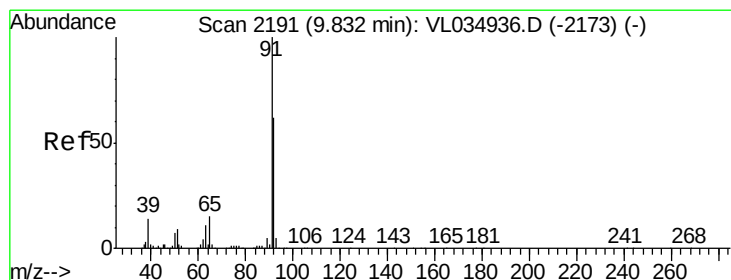
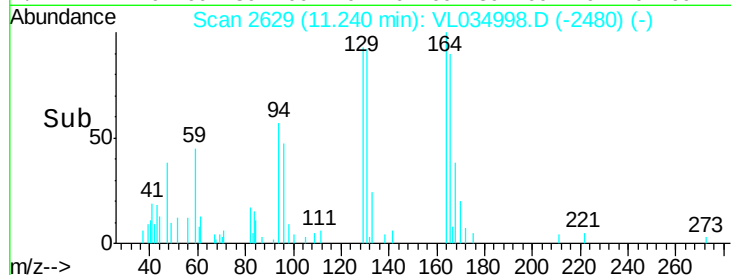
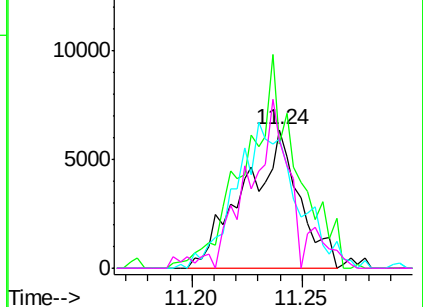


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 30.832 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL034998.D

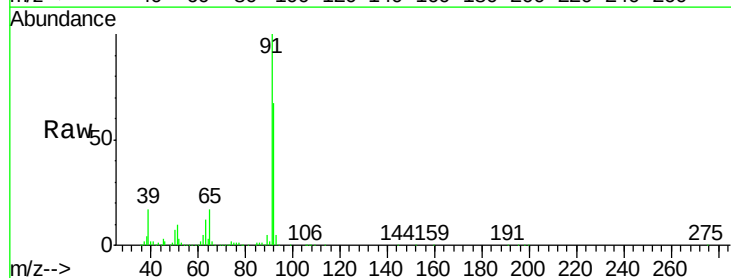
Acq: 12 May 2020 22:16

Tgt Ion: 91 Resp: 6665664

Ion Ratio Lower Upper

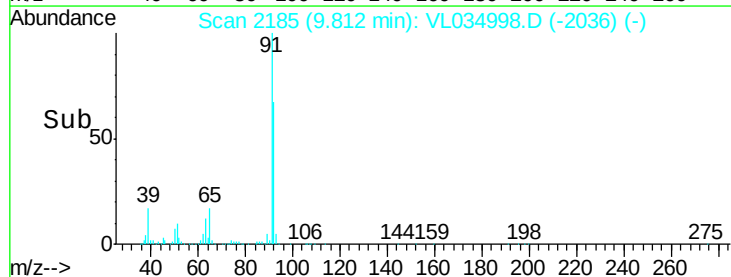
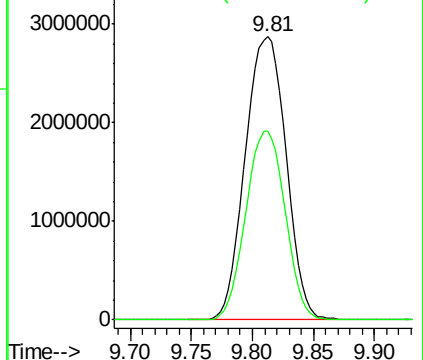
91 100

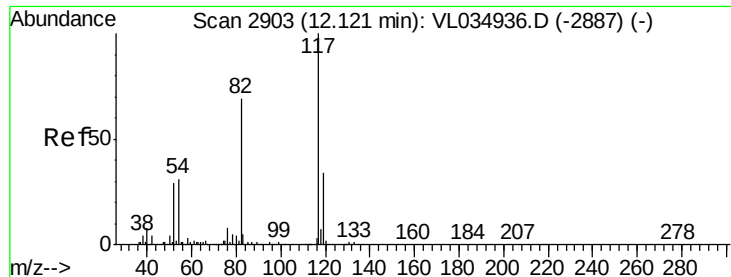
92 64.3 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





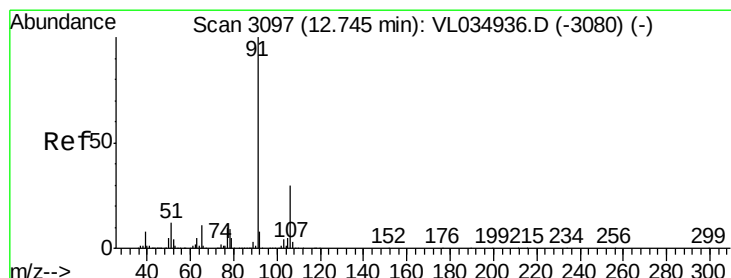
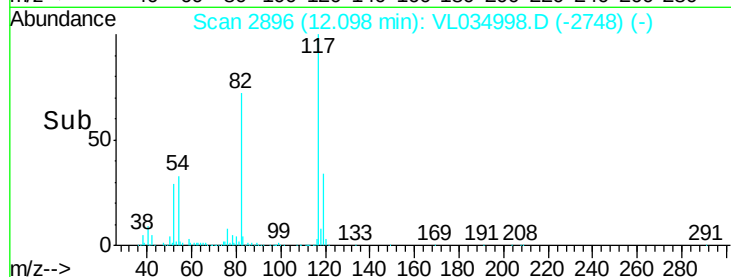
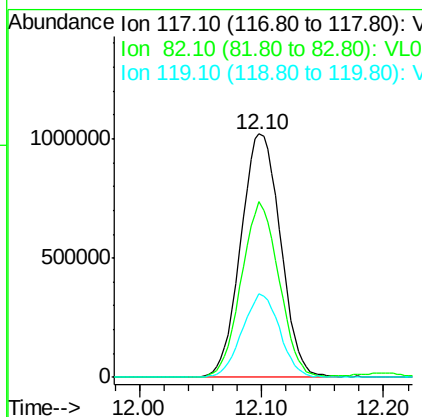
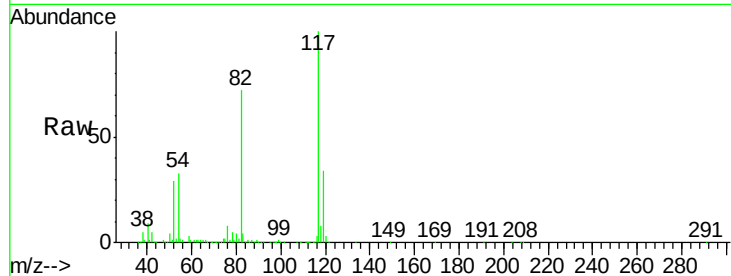
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.5	53.1	79.7
119	32.5	26.7	40.1

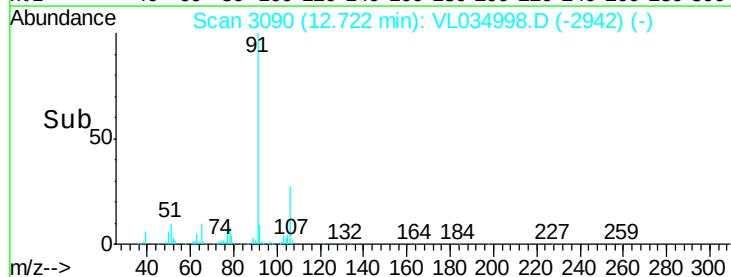
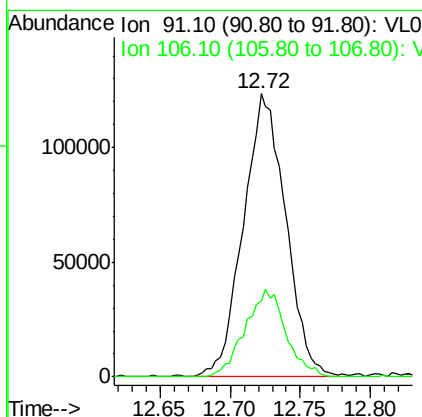
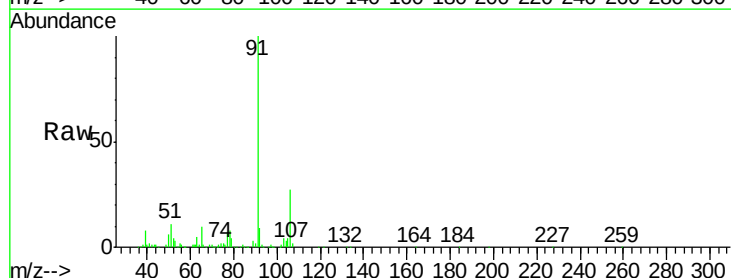
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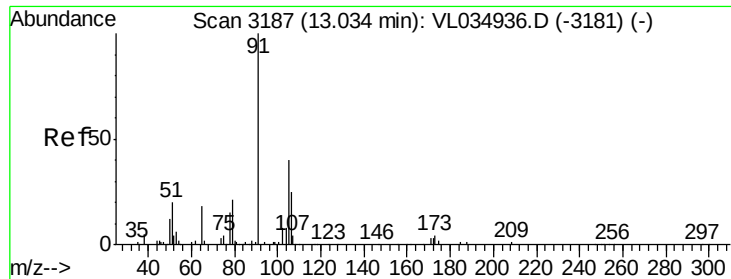
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#58
Ethyl Benzene
Concen: 0.915 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.7	24.2	36.4





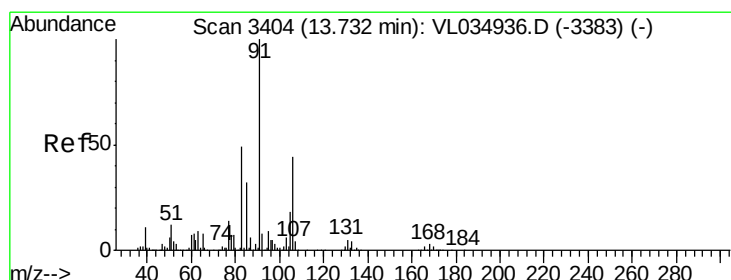
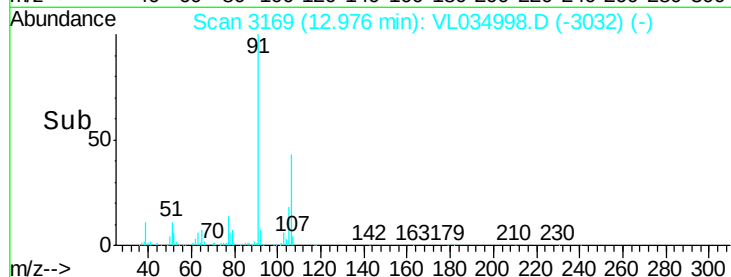
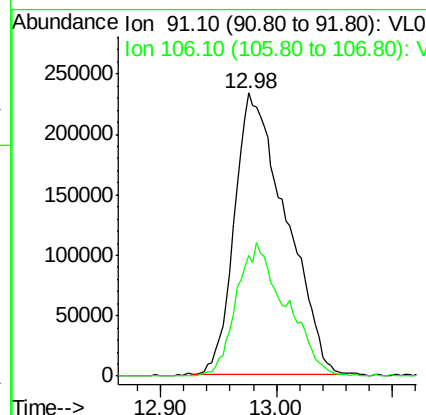
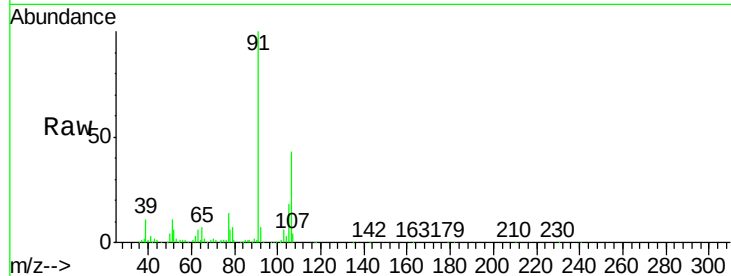
#59
m/p-Xylene
Concen: 2.875 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.06 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion: 91 Resp: 717434
Ion Ratio Lower Upper
91 100
106 45.6 66.0 99.0#

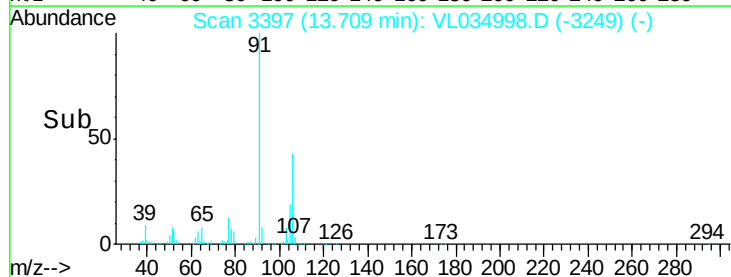
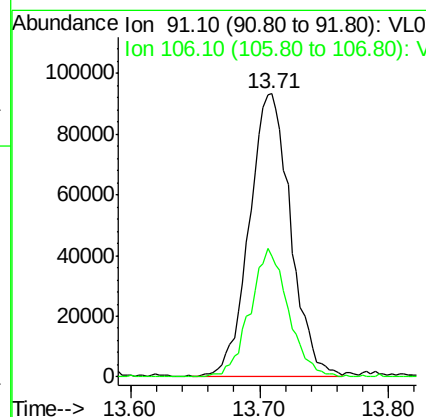
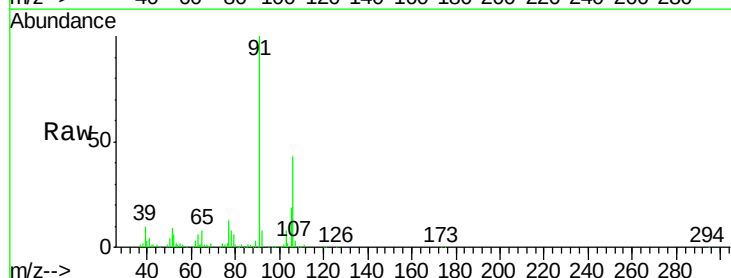
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APPROVED

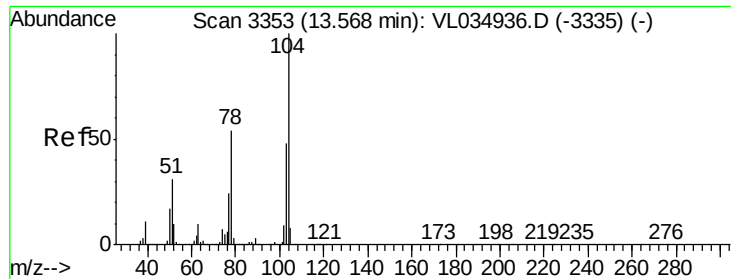
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#60
o-Xylene
Concen: 0.846 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion: 91 Resp: 208400
Ion Ratio Lower Upper
91 100
106 42.3 21.9 65.5





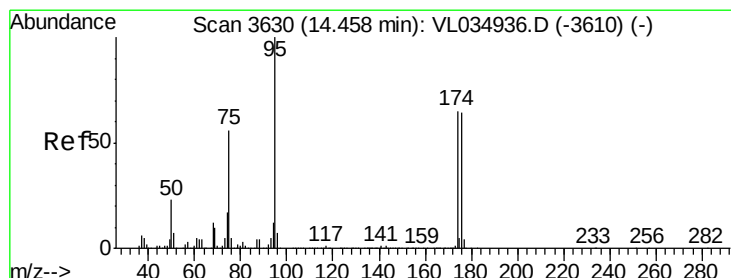
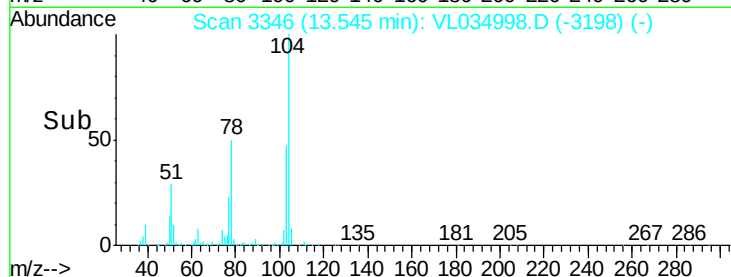
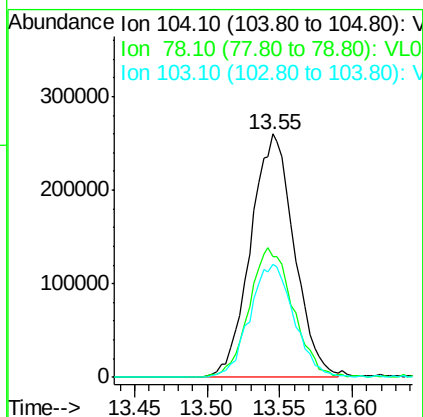
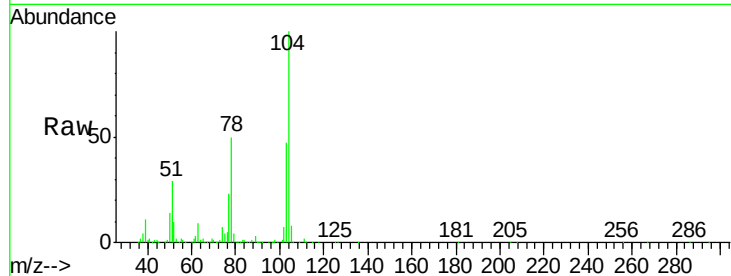
#61
Stvrene
Concen: 3.484 ppbv
RT: 13.55 min Scan# 3346
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.2	43.7	65.5
103	47.6	38.8	58.2

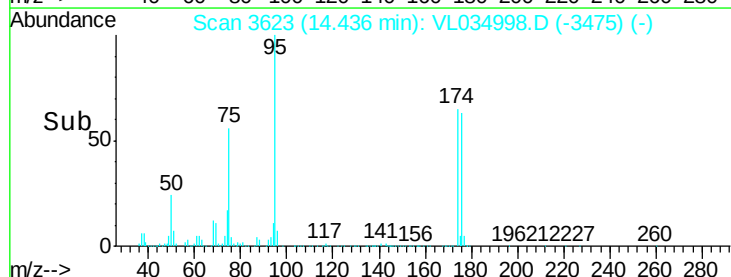
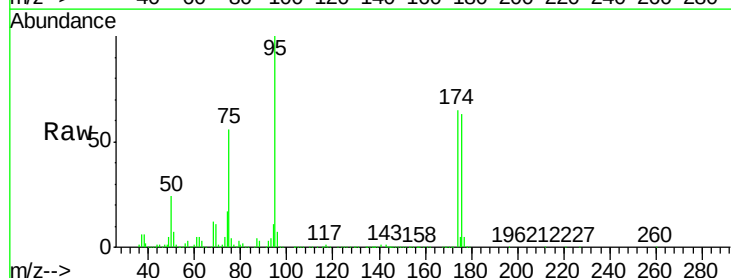
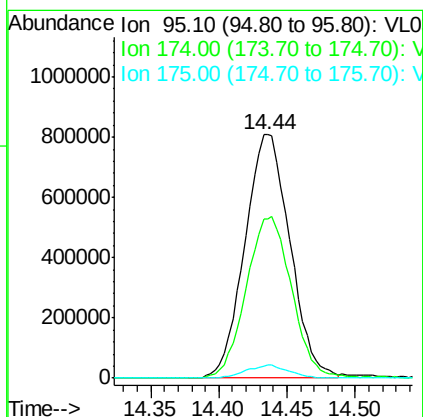
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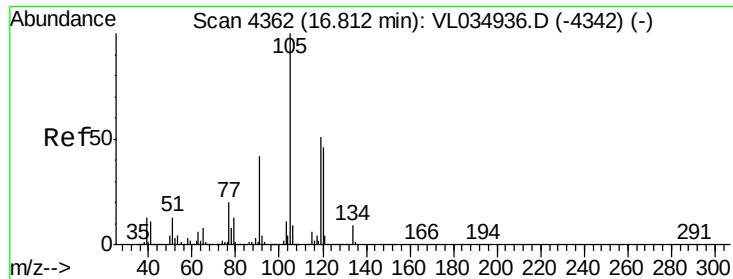
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.02 min
Lab File: VL034998.D
Acq: 12 May 2020 22:16

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.3	51.5	77.3
175	5.0	3.8	5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.179 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.02 min
 Lab File: VL034998.D
 Acq: 12 May 2020 22:16

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	48.4	36.8	55.2
91	16.3	35.4	53.0#
77	10.2	16.2	24.2#

Manual Integrations
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