

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034591.D
 Acq On : 4 Feb 2020 22:32
 Operator : SY/AP
 Sample : L1358-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:50:53 PM

Quant Time: Feb 05 07:04:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	903338	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1859056	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1798059	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1602571	10.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	106586	0.536	ppbv	# 84
3) Chlorodifluoromethane	2.95	51	157540m	1.443	ppbv	
4) Chloromethane	3.11	50	25000	0.374	ppbv	96
9) Propene	2.99	41	117661m	2.769	ppbv	
10) Heptane	8.14	43	14964m	0.140	ppbv	
11) Trichlorofluoromethane	3.93	101	47629	0.264	ppbv	98
13) Ethanol	3.60	45	1807274	158.759	ppbv	99
15) Acetone	3.83	43	803294	6.051	ppbv	94
19) Isopropyl Alcohol	3.97	45	126371	1.631	ppbv	# 90
20) Methylene Chloride	4.33	84	567102	11.218	ppbv	96
26) Hexane	5.68	57	338339	3.758	ppbv	# 51
34) 2-Butanone	5.25	43	77894	0.577	ppbv	95
35) Carbon Tetrachloride	7.03	117	11918m	0.067	ppbv	
36) Benzene	6.91	78	52973m	0.320	ppbv	
41) Tetrahydrofuran	6.06	42	18487m	0.263	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	51391m	0.171	ppbv	
52) Tetrachloroethene	11.26	164	3911m	0.059	ppbv	
53) Toluene	9.83	91	180128	0.992	ppbv	100
59) m/p-Xylene	13.00	91	51493m	0.242	ppbv	

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

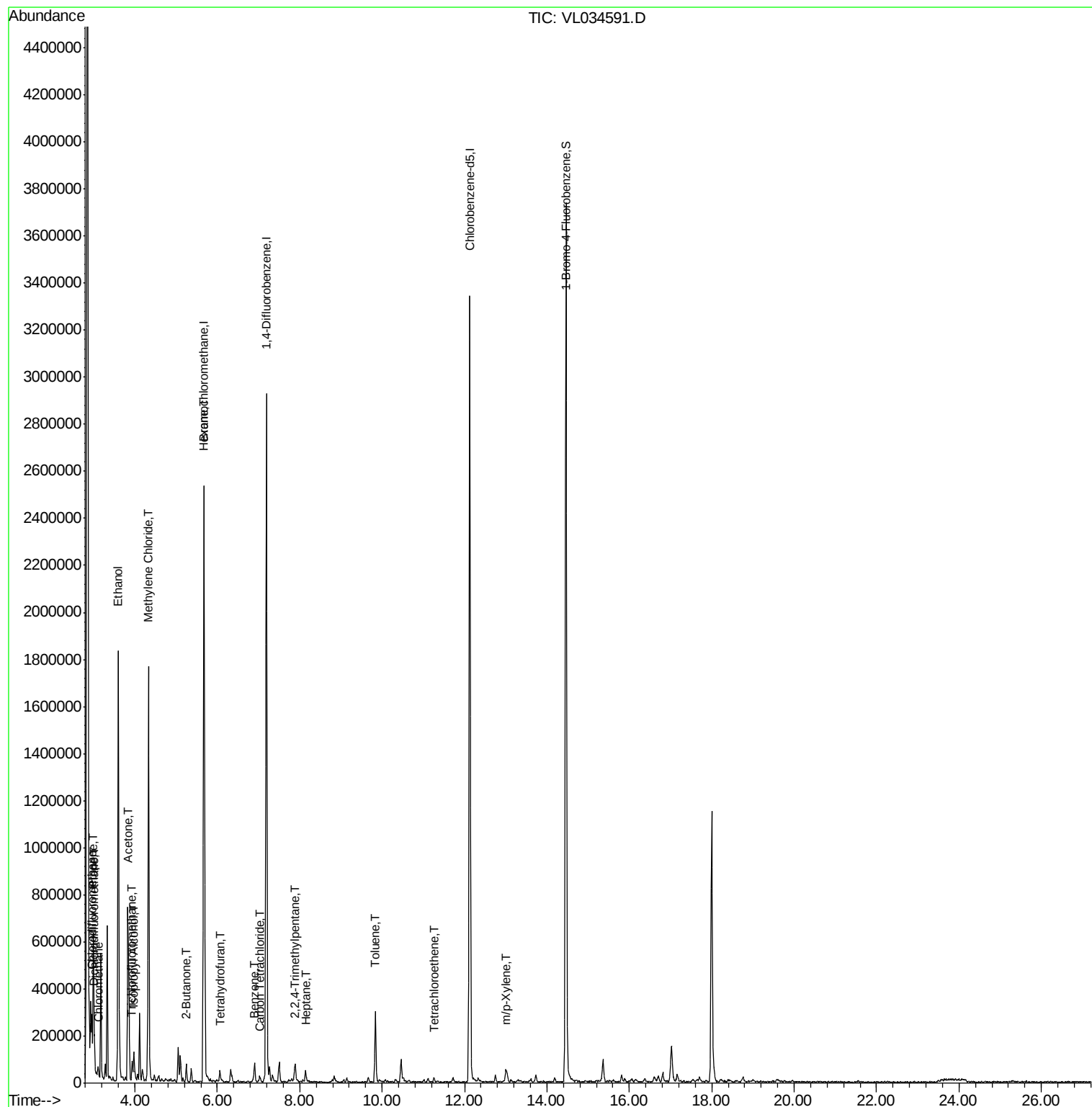
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
Data File : VL034591.D
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Operator : SY/AP
Sample : L1358-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

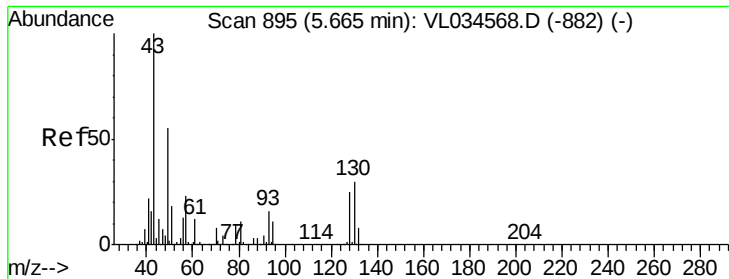
Instrument :
MSVOA_L
ClientSampleId :
1A-1

Manual Integrations
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Quant Time: Feb 05 07:04:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

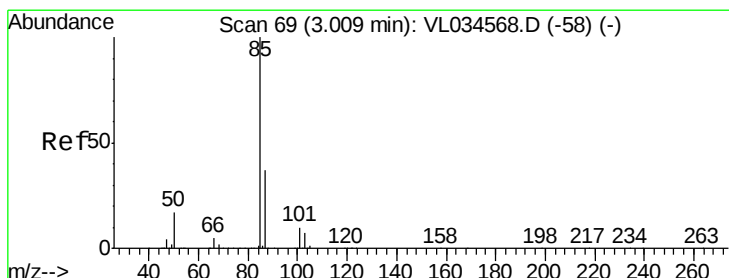
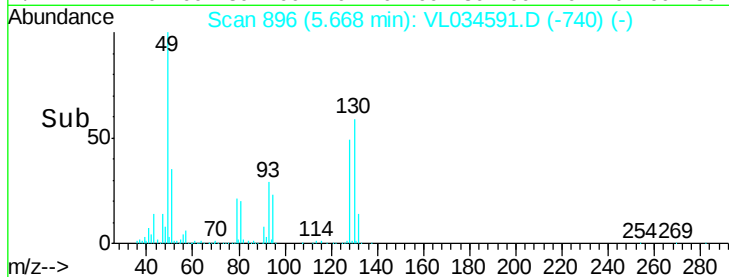
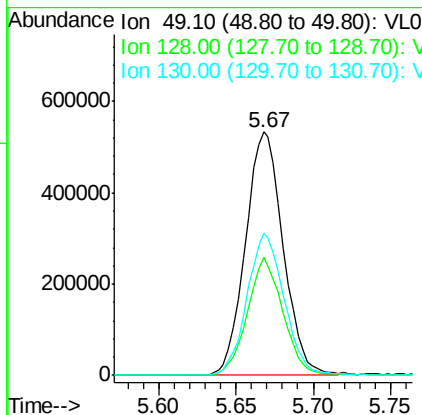
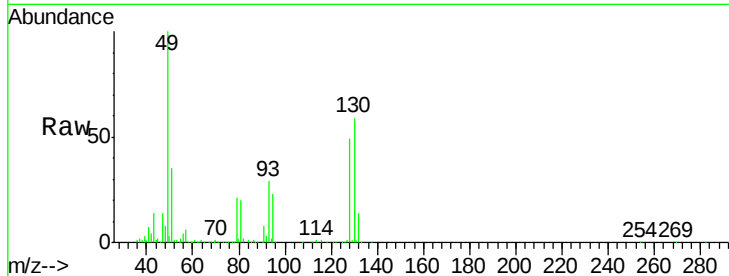
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. 0.00 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.1	22.7	68.1
130	58.2	28.6	85.8

Manual Integrations
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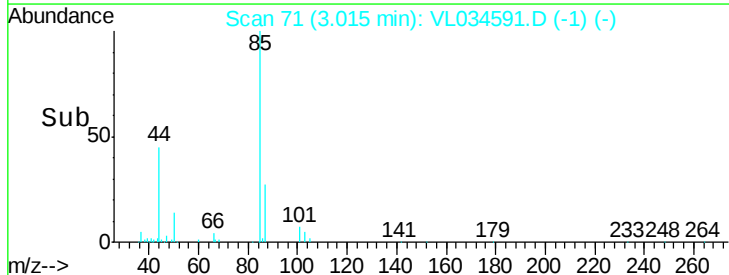
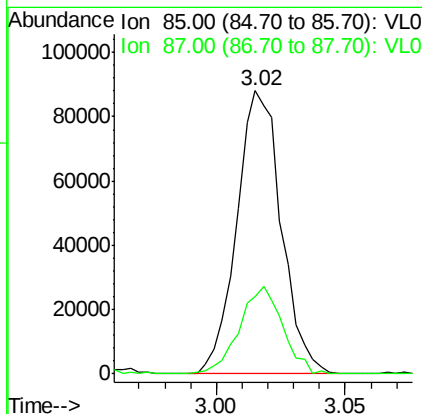
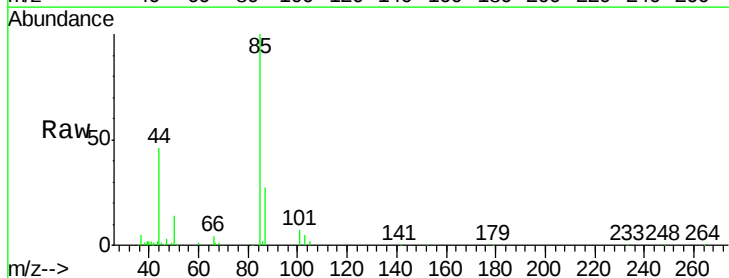
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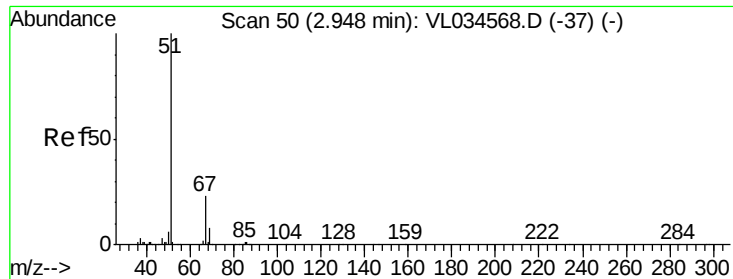


#2

Dichlorodifluoromethane
 Concen: 0.536 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.4	29.5	44.3#





#3

Chlorodifluoromethane

Concen: 1.443 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.01 min

Lab File: VL034591.D

Acq: 4 Feb 2020 22:32

Instrument :

MSVOA_L

ClientSampleId :

1A-1

Tot Ion: 51 Resp: 157540

Ion Ratio Lower Upper

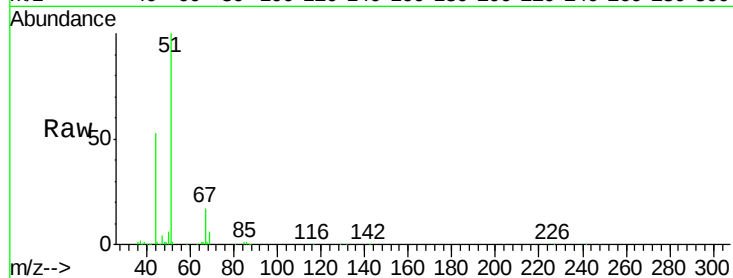
51 100

67 22.4 17.8 26.8

Manual Integrations
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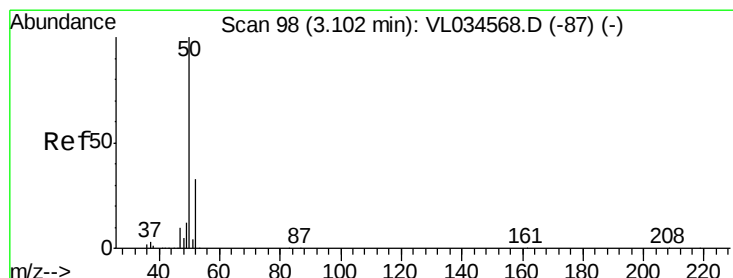
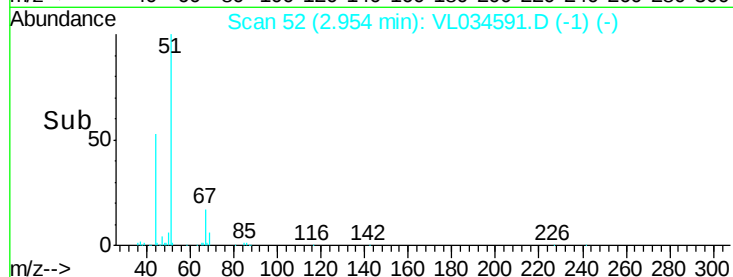
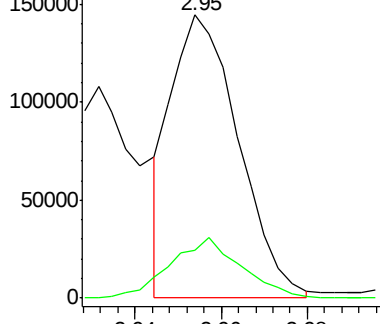
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.374 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.01 min

Lab File: VL034591.D

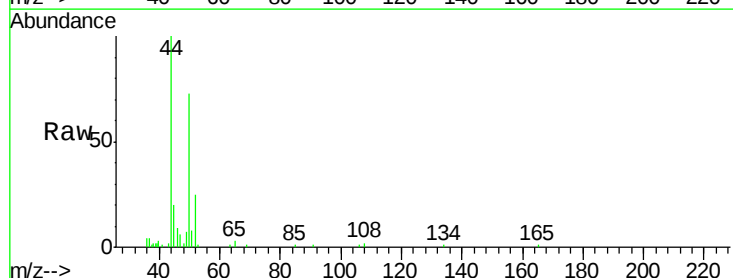
Acq: 4 Feb 2020 22:32

Tgt Ion: 50 Resp: 25000

Ion Ratio Lower Upper

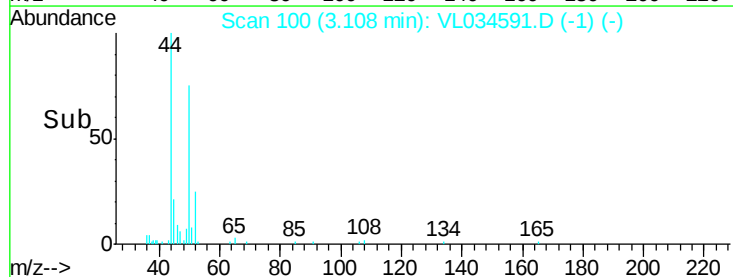
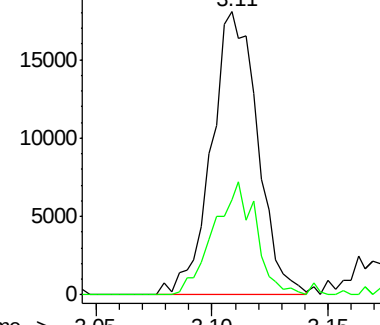
50 100

52 31.1 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





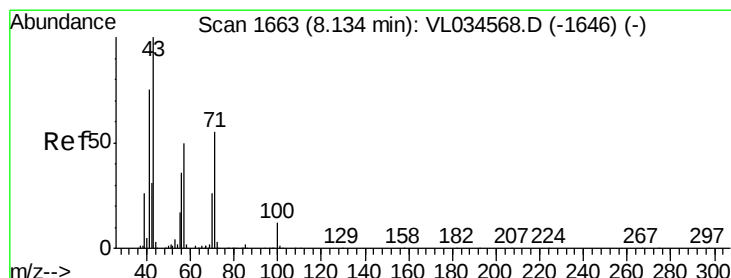
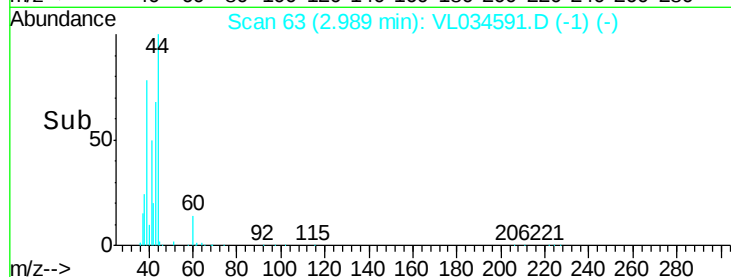
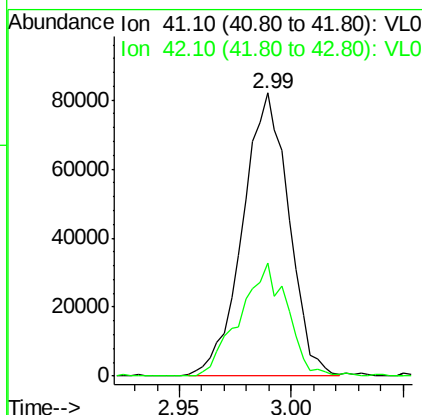
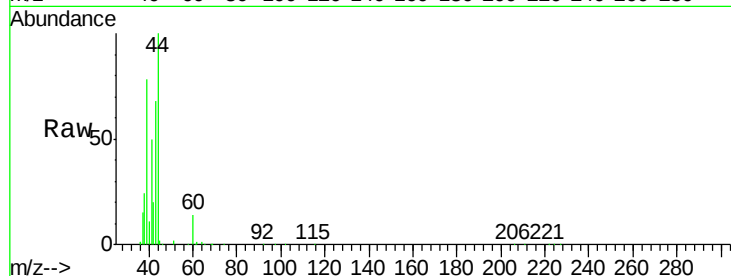
#9
 Propene
 Concen: 2.769 ppbv m
 RT: 2.99 min Scan# 63
 Delta R.T. 0.02 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1

Tot Ion	41	Resp	117661
Ion Ratio	41	100	
Lower	42	71.1	57.0
Upper			85.4

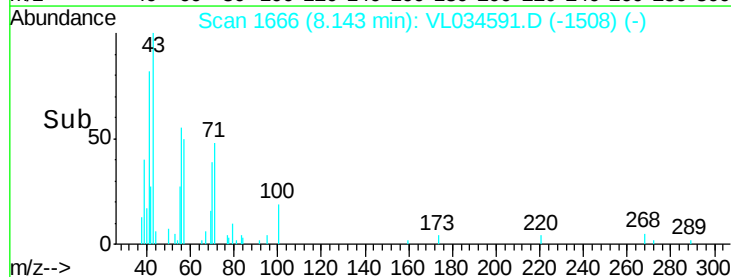
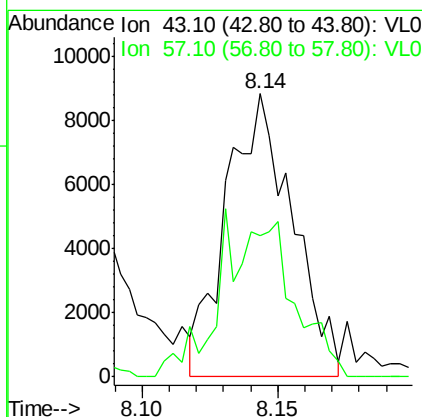
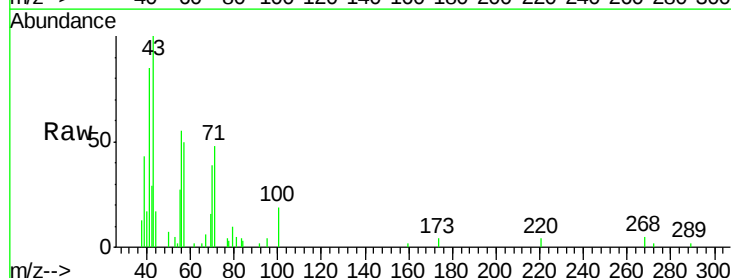
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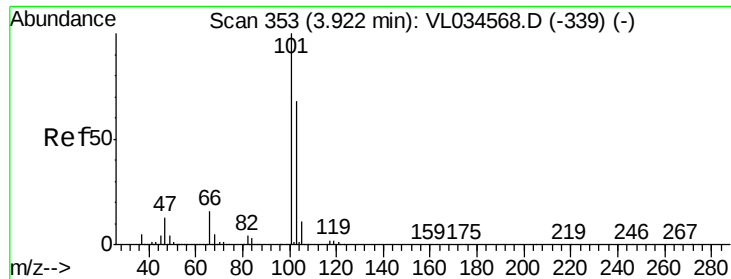
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#10
 Heptane
 Concen: 0.140 ppbv m
 RT: 8.14 min Scan# 1666
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Tgt Ion	43	Resp	14964
Ion Ratio	43	100	
Lower	57	0.0	41.2
Upper			61.8





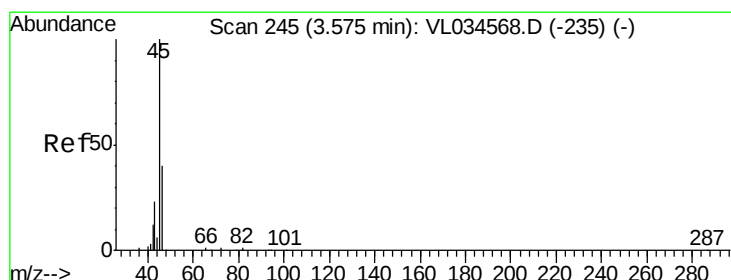
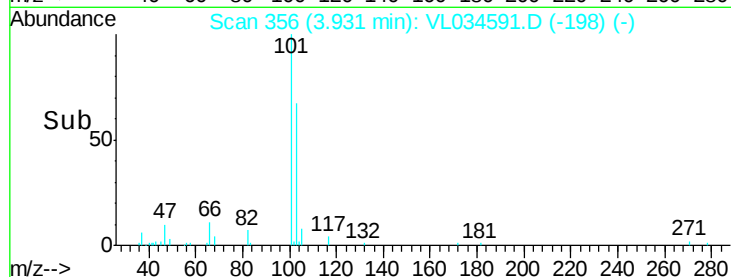
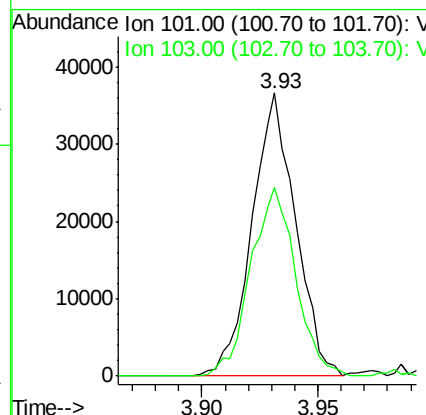
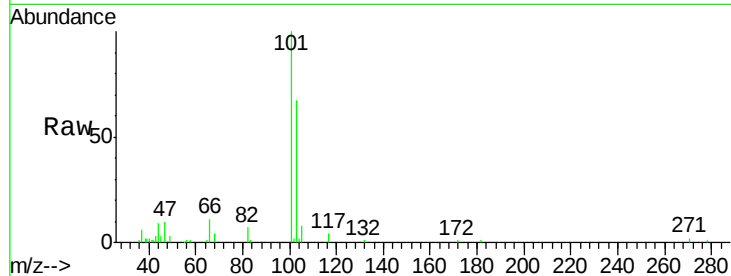
#11
 Trichlorofluoromethane
 Concen: 0.264 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		47629		
103	66.8	54.4	81.6		

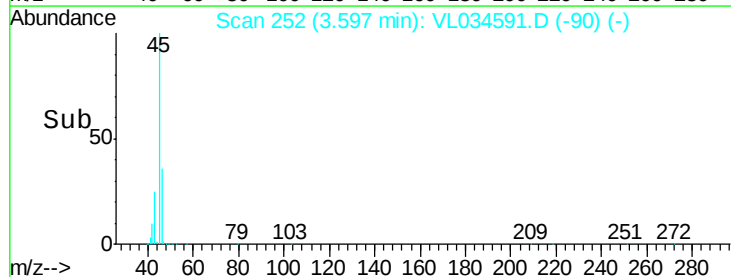
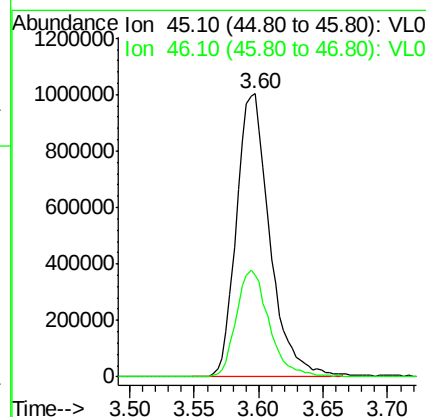
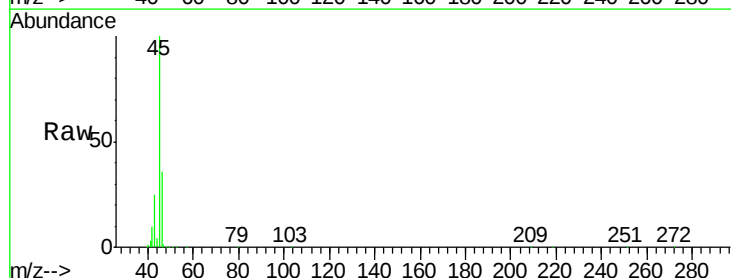
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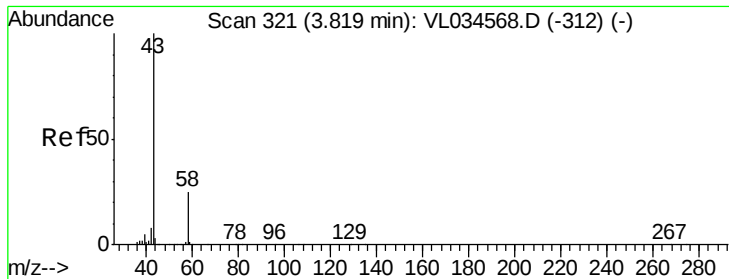
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#13
 Ethanol
 Concen: 158.759 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. 0.02 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		1807274		
46	37.5	14.8	59.2		





#15

Acetone

Concen: 6.051 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034591.D

Acq: 4 Feb 2020 22:32

Instrument :

MSVOA_L

ClientSampled :

1A-1

Tot Ion: 43 Resp: 803294

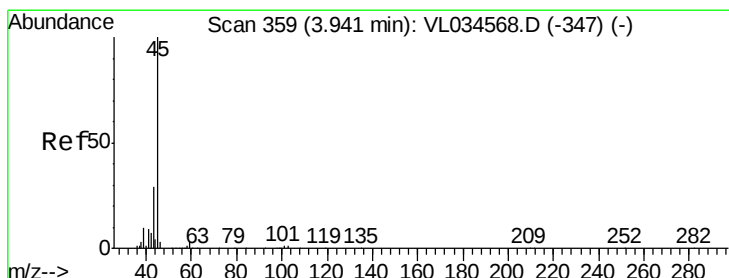
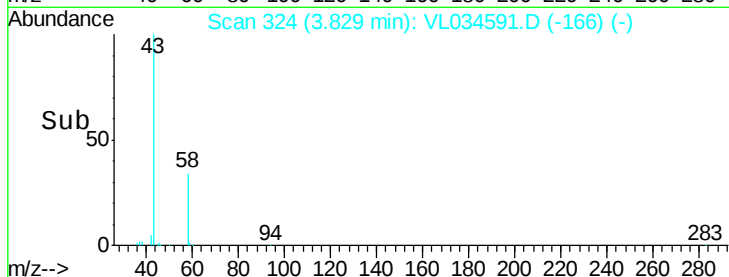
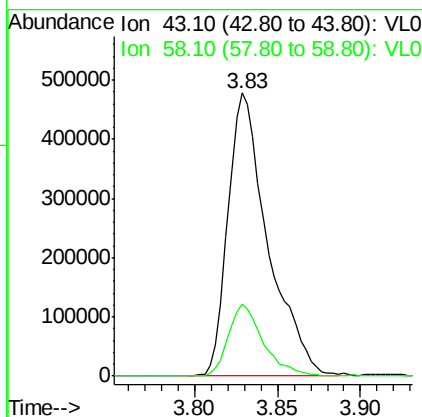
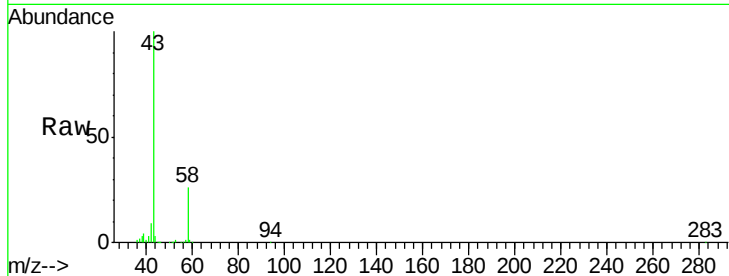
Ion Ratio Lower Upper

43 100

58 22.4 20.3 30.5

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 1.631 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL034591.D

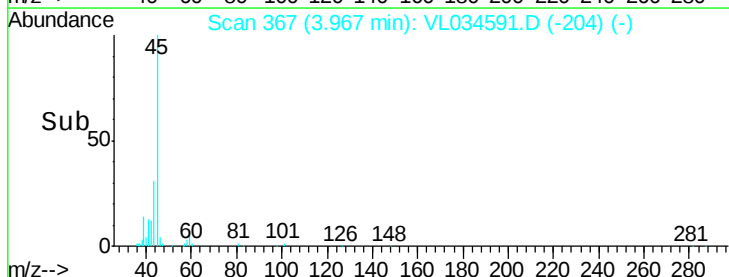
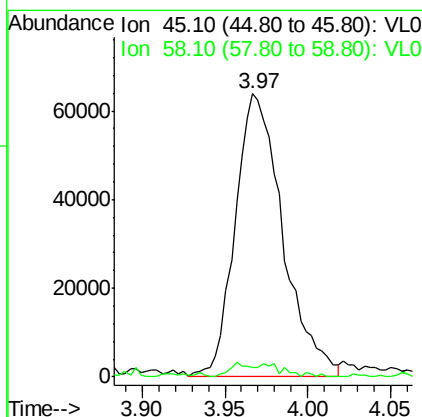
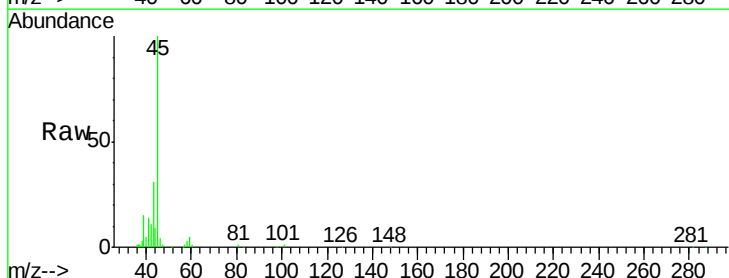
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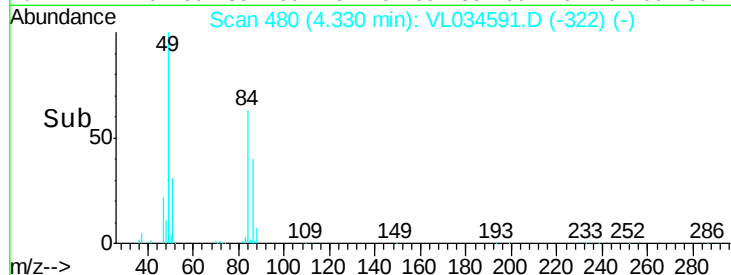
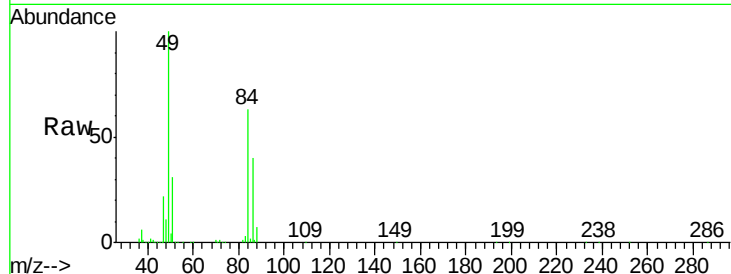
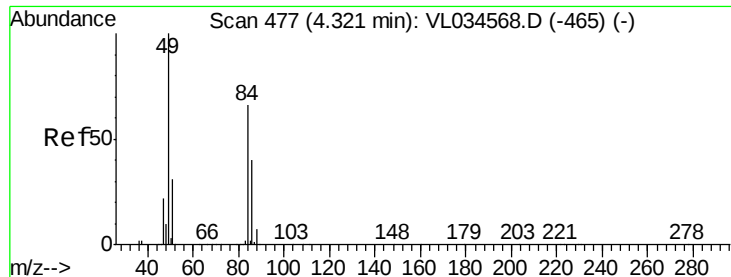
Tgt Ion: 45 Resp: 126371

Ion Ratio Lower Upper

45 100

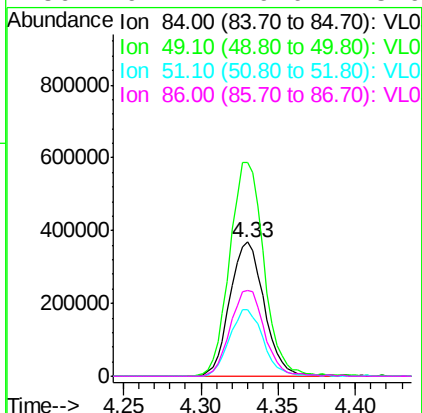
58 5.5 1.7 2.5#





#20
Methvlene Chloride
Concen: 11.218 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

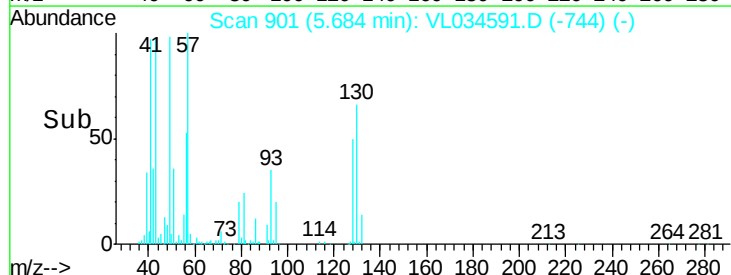
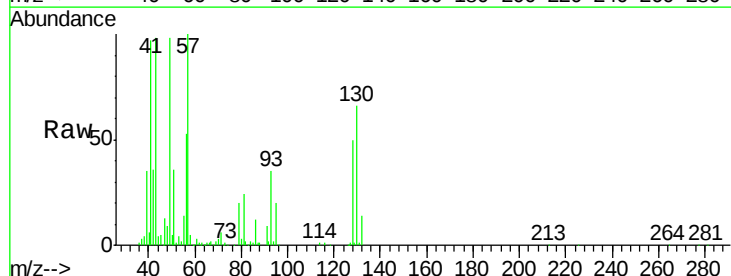
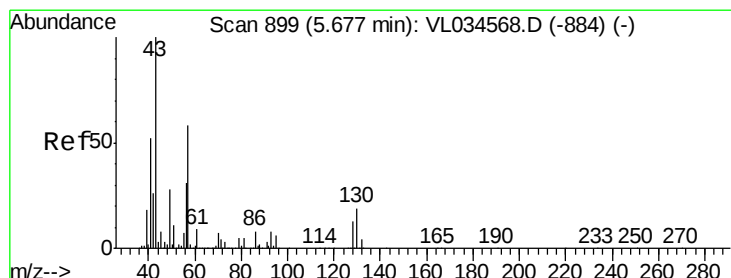
Tot Ion	84	Resp	567102
Ion Ratio	Lower	Upper	
84	100		
49	159.2	122.4	183.6
51	49.9	38.6	57.8
86	64.1	49.0	73.6



Instrument :
MSVOA_L
ClientSampled :
1A-1

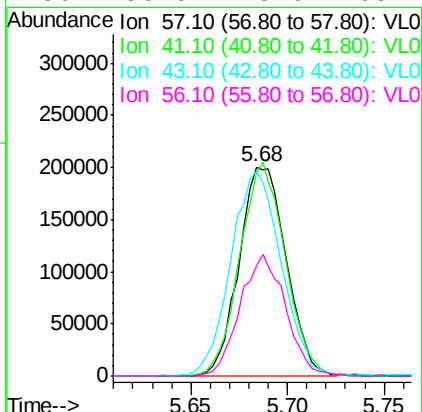
Manual Integrations
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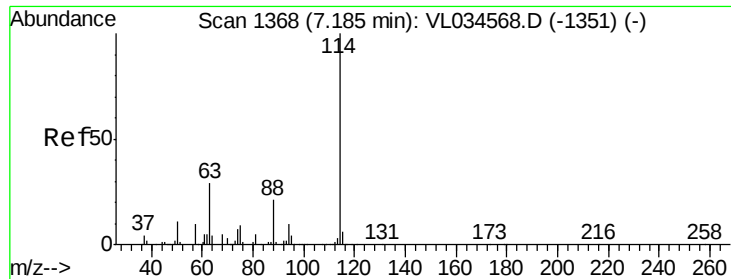
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#26
Hexane
Concen: 3.758 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

Tgt Ion	57	Resp	338339
Ion Ratio	Lower	Upper	
57	100		
41	99.3	76.2	114.2
43	106.3	189.9	284.9#
56	56.5	43.6	65.4





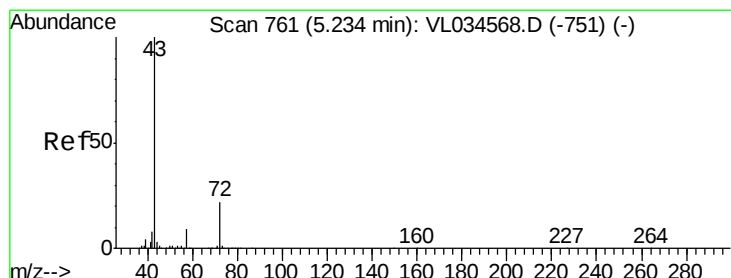
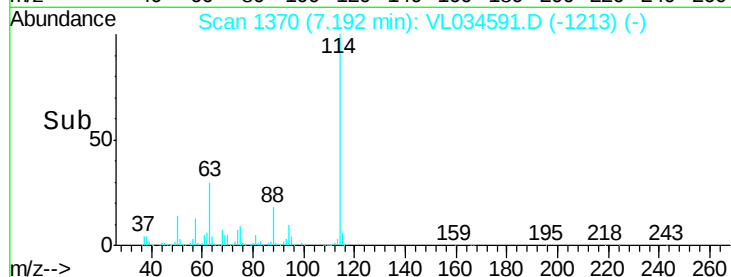
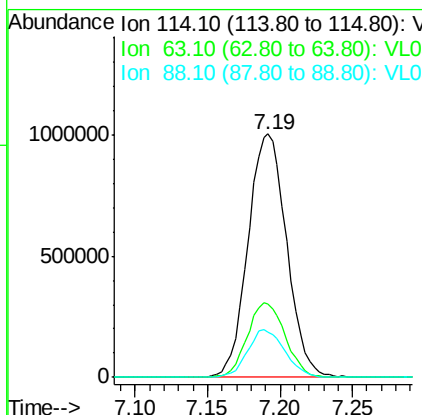
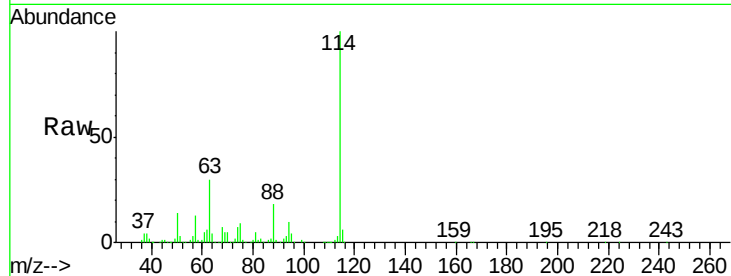
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Instrument :
 MSVOA_L
 ClientSampled :
 1A-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.1	36.1
88	19.0	15.9	23.9

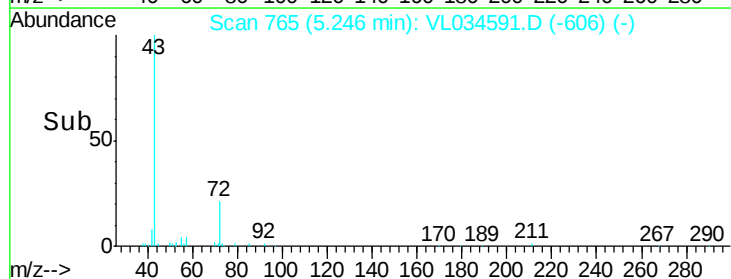
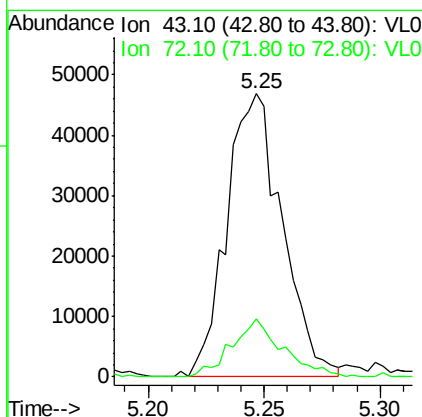
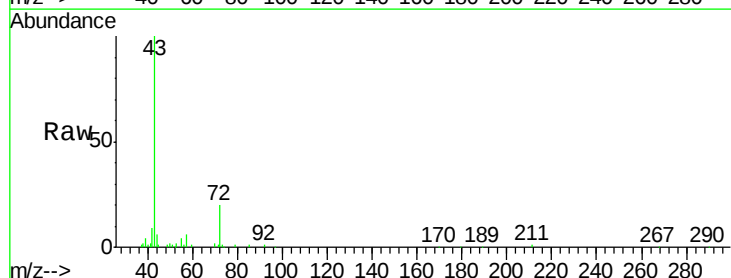
Manual Integrations
 APPROVED

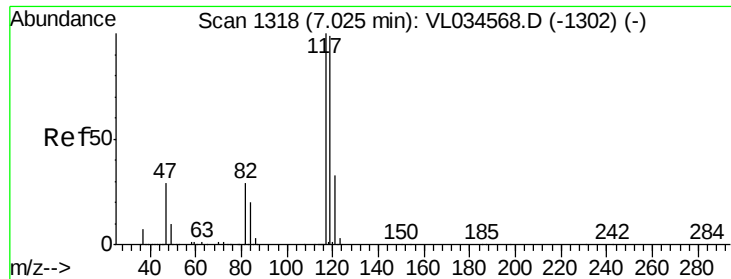
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#34
 2-Butanone
 Concen: 0.577 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.9	17.2	25.8





#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL034591.D

Acq: 4 Feb 2020 22:32

Instrument :

MSVOA_L

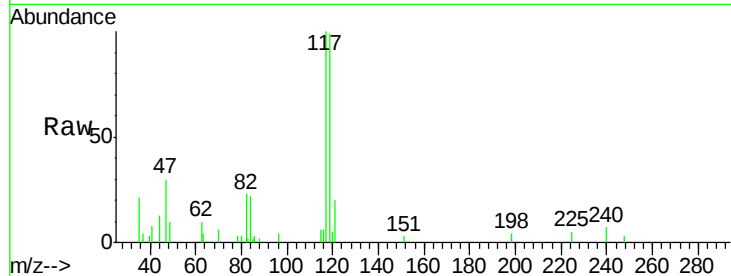
ClientSampleId :

1A-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	99.0	79.5	119.3
121	20.3	26.2	39.2#

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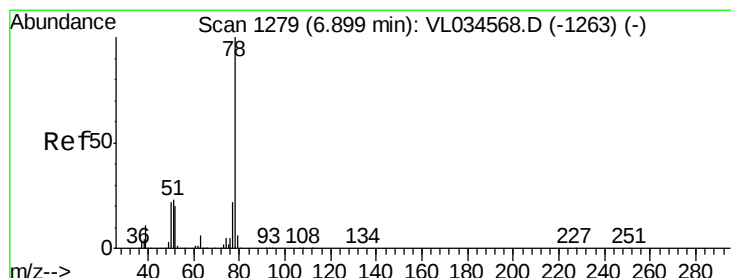
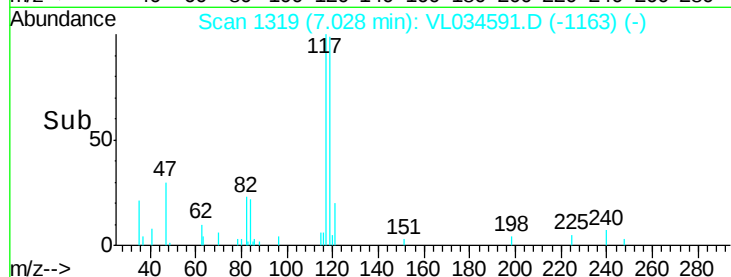
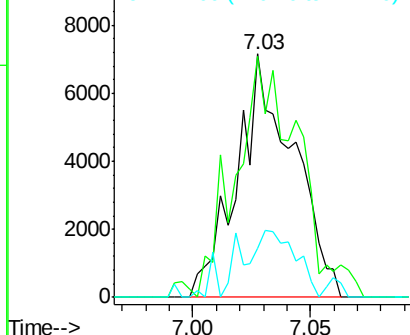


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.320 ppbv m

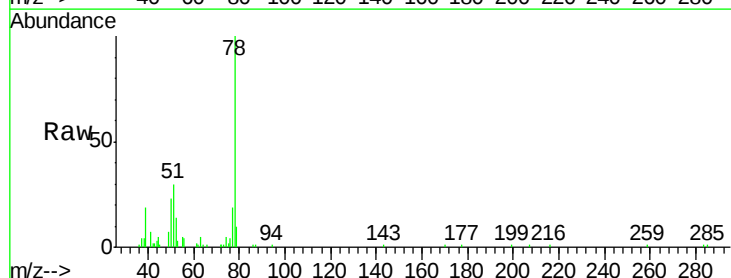
RT: 6.91 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VL034591.D

Acq: 4 Feb 2020 22:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.1	17.3	25.9
50	23.4	17.4	26.2

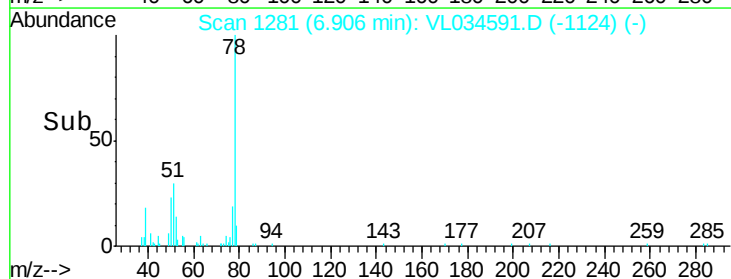
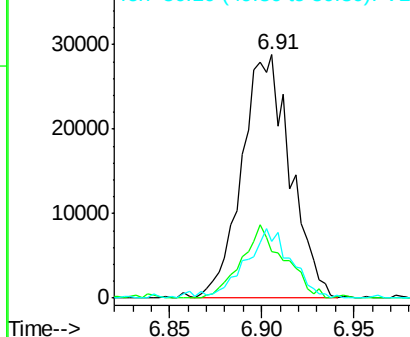


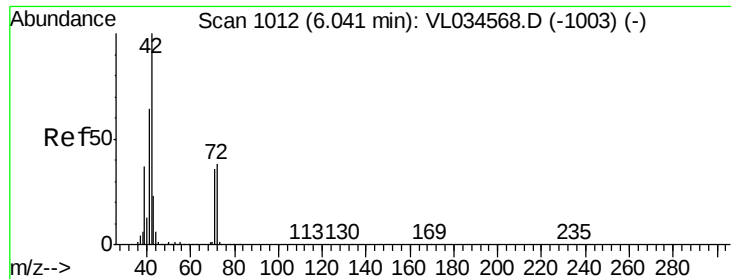
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





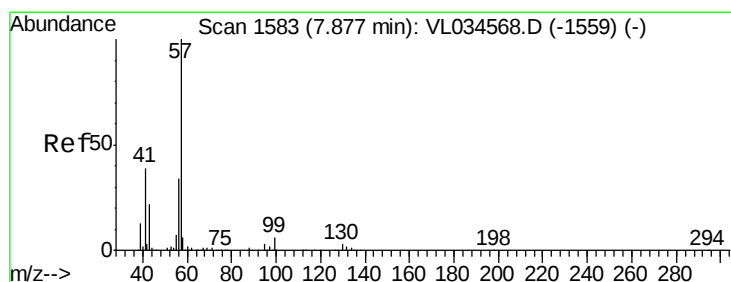
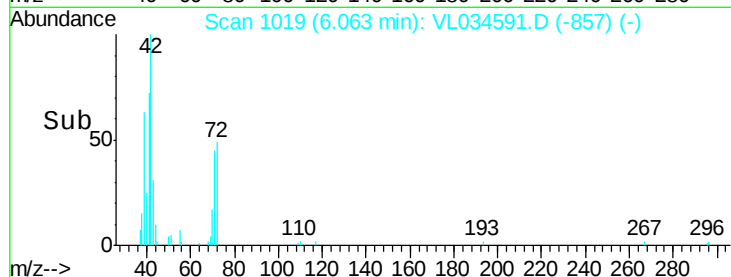
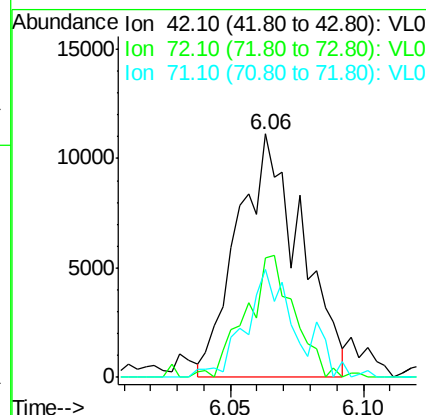
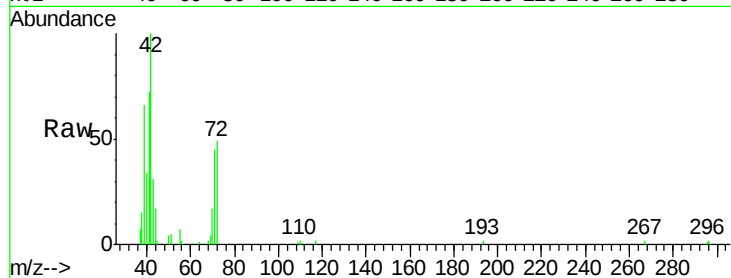
#41
Tetrahydrofuran
Concen: 0.263 ppbv m
RT: 6.06 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

Instrument :
MSVOA_L
ClientSampled :
1A-1

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.8	47.8#
71	0.0	30.2	45.4#

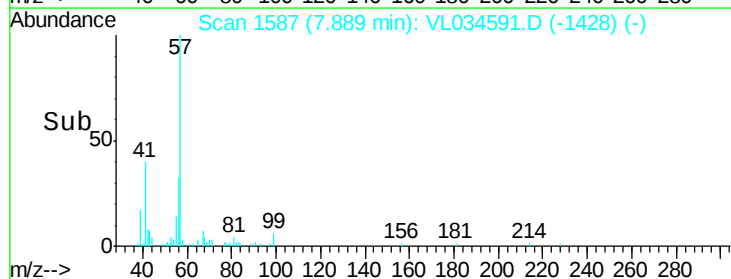
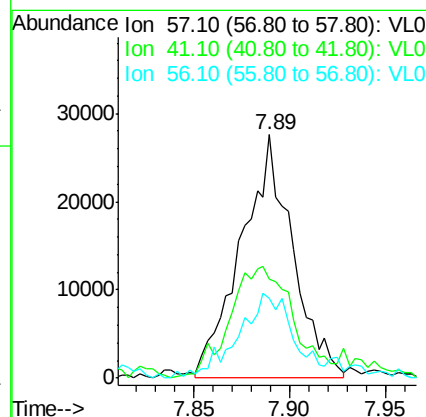
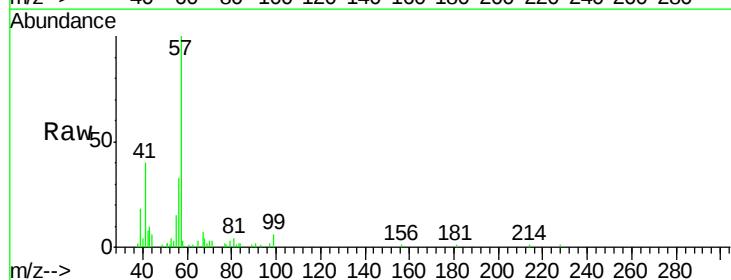
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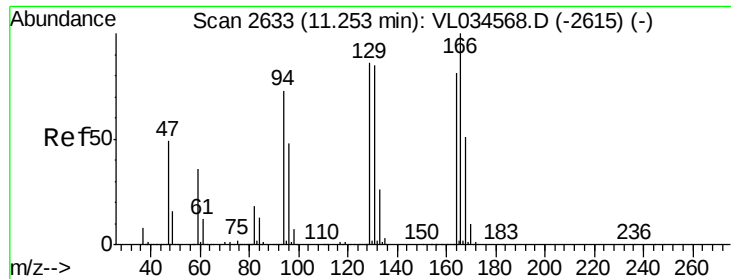
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#44
2,2,4-Trimethylpentane
Concen: 0.171 ppbv m
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	63.5	28.9	43.3#
56	42.4	25.5	38.3#





#52

Tetrachloroethene

Concen: 0.059 ppbv m

RT: 11.26 min Scan# 2636

Delta R.T. 0.01 min

Lab File: VL034591.D

Acq: 4 Feb 2020 22:32

Instrument :

MSVOA_L

ClientSampled :

1A-1

Tot Ion:164 Resp: 3911

Ion Ratio Lower Upper

164 100

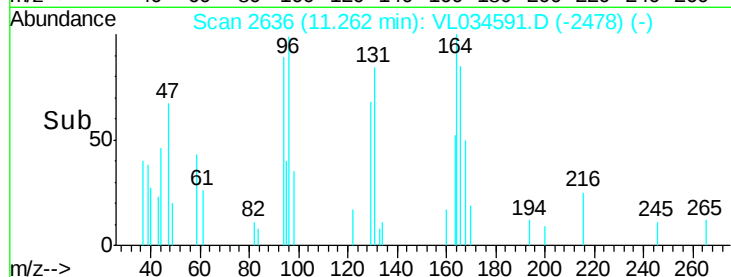
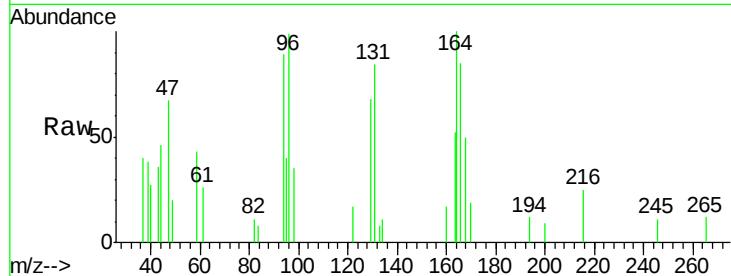
166 84.8 99.0 148.4#

129 67.6 85.3 127.9#

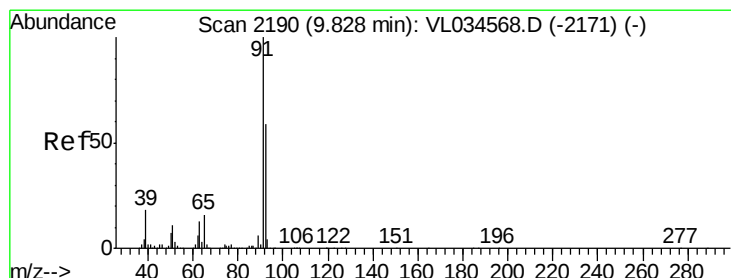
131 84.0 84.2 126.2#

Manual Integrations
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Time-->



#53

Toluene

Concen: 0.992 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034591.D

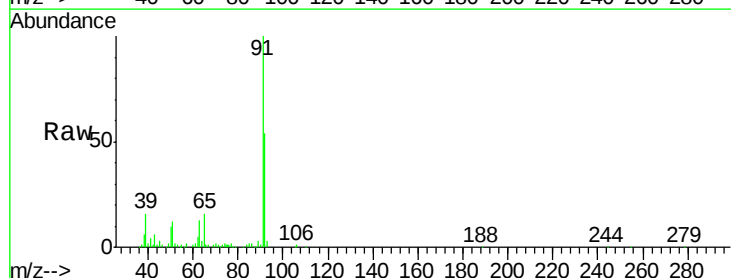
Acq: 4 Feb 2020 22:32

Tgt Ion: 91 Resp: 180128

Ion Ratio Lower Upper

91 100

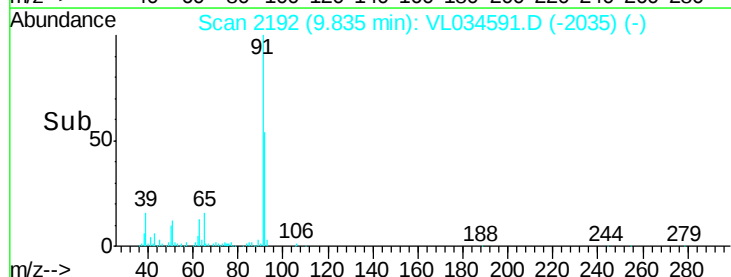
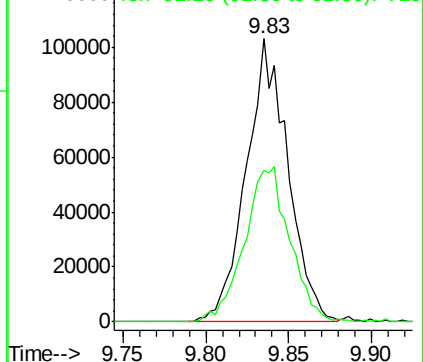
92 60.0 48.2 72.2

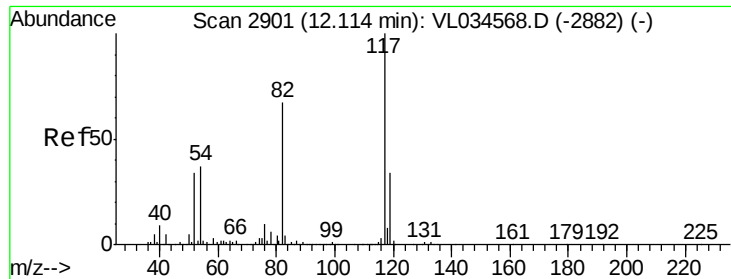


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





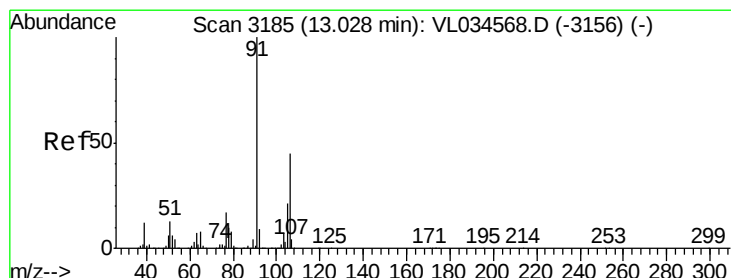
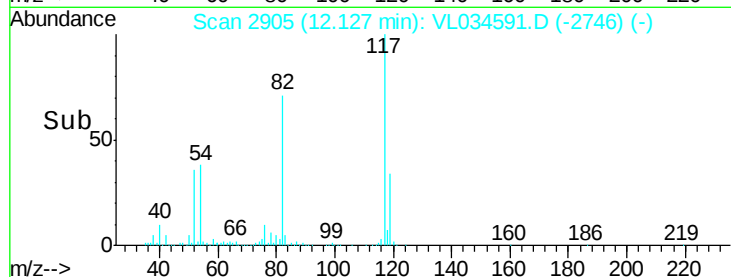
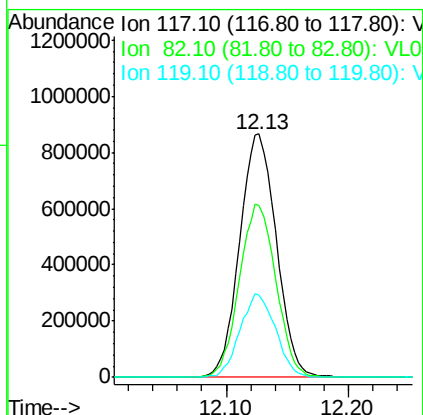
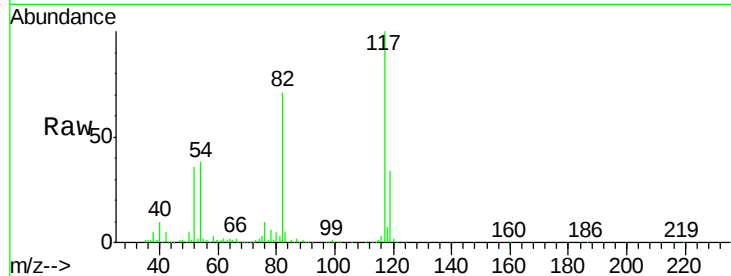
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

Instrument :
MSVOA_L
ClientSampled :
1A-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.1	54.2	81.4
119	33.3	26.1	39.1

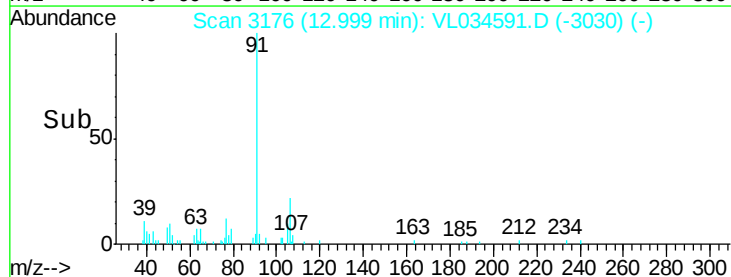
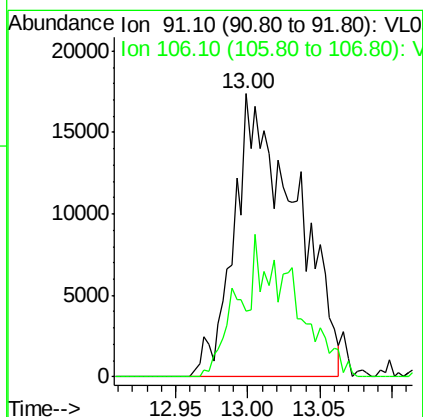
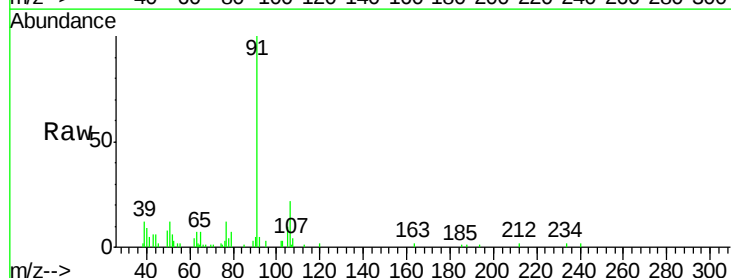
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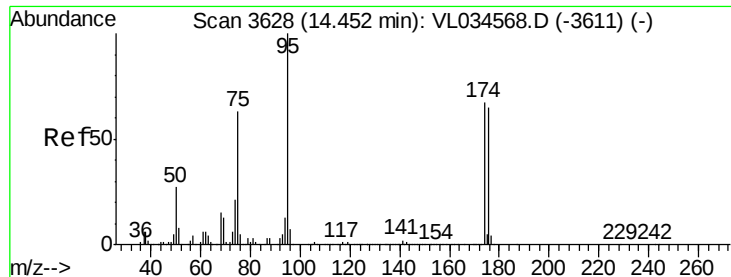
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#59
m/p-Xylene
Concen: 0.242 ppbv m
RT: 13.00 min Scan# 3176
Delta R.T. -0.03 min
Lab File: VL034591.D
Acq: 4 Feb 2020 22:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.546 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL034591.D
 Acq: 4 Feb 2020 22:32

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-1

Tot Ion:	95	Resp:	1602571
Ion Ratio	Lower	Upper	
95	100		
174	63.4	52.3	78.5
175	4.6	3.8	5.6

Manual Integrations
 APPROVED

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