

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034654.D
 Acq On : 19 Feb 2020 21:00
 Operator : SY/AP
 Sample : L1553-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:14 PM

Quant Time: Feb 21 10:31:18 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	5.65	49	814665	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	1737345	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	1696037	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1507388	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	32311	0.180	ppbv #	86
3) Chlorodifluoromethane	2.94	51	29860m	0.303	ppbv	
4) Chloromethane	3.10	50	30225	0.502	ppbv	91
9) Propene	2.98	41	533946m	13.931	ppbv	
10) Heptane	8.13	43	12030m	0.125	ppbv	
11) Trichlorofluoromethane	3.92	101	46606	0.286	ppbv #	80
13) Ethanol	3.57	45	1487901	144.930	ppbv	100
15) Acetone	3.82	43	437435m	3.653	ppbv	
19) Isopropyl Alcohol	3.94	45	116892	1.673	ppbv #	92
20) Methylene Chloride	4.32	84	160674	3.524	ppbv	98
26) Hexane	5.67	57	180866	2.228	ppbv #	42
34) 2-Butanone	5.23	43	32405m	0.257	ppbv	
35) Carbon Tetrachloride	7.01	117	12206m	0.073	ppbv	
36) Benzene	6.89	78	64770	0.419	ppbv	95
53) Toluene	9.81	91	644846	3.799	ppbv	99
58) Ethyl Benzene	12.73	91	81040	0.357	ppbv	97
59) m/p-Xylene	12.99	91	289016	1.441	ppbv	97
60) o-Xylene	13.71	91	52320m	0.260	ppbv	

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

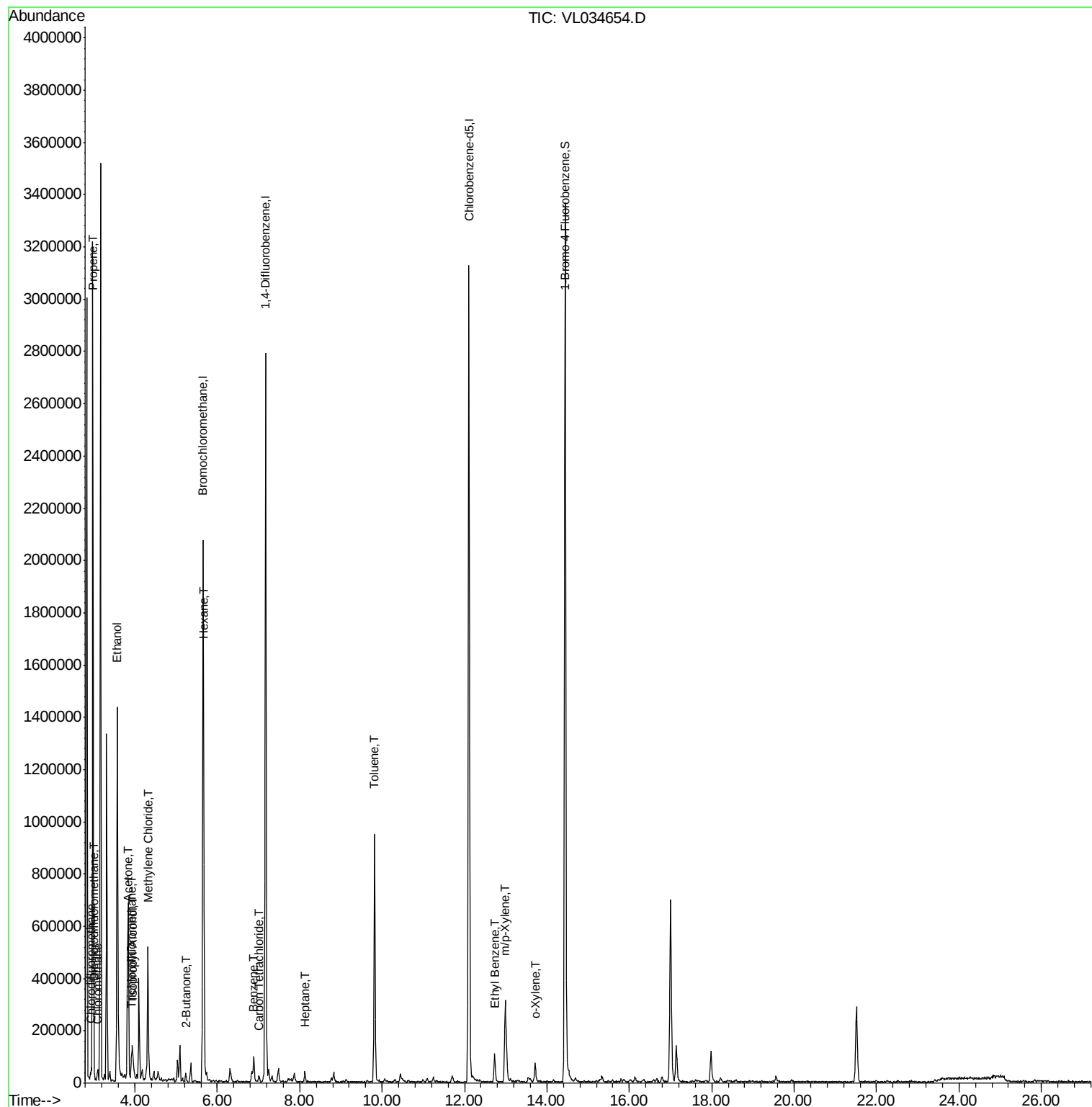
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021920\
Data File : VL034654.D
Acq On : 19 Feb 2020 21:00
Operator : SY/AP
Sample : L1553-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

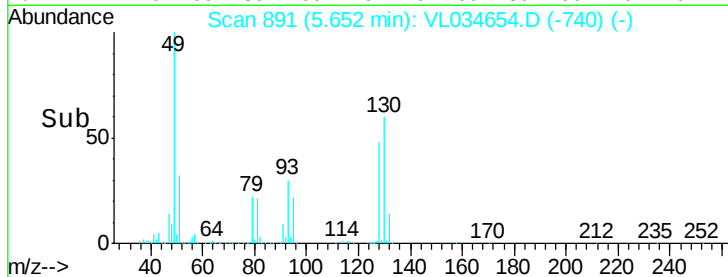
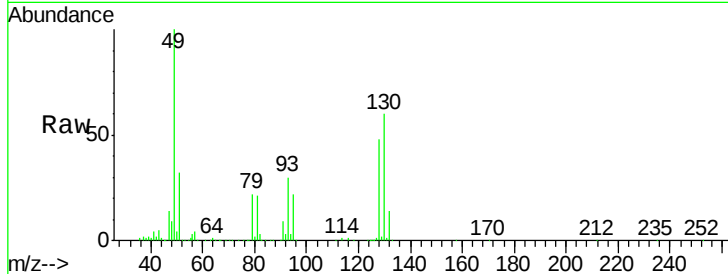
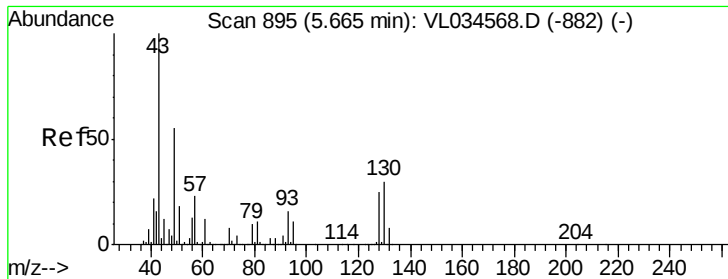
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

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Quant Time: Feb 21 10:31:18 2020
Quant Method : Z:\V0ASRV\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: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034654.D

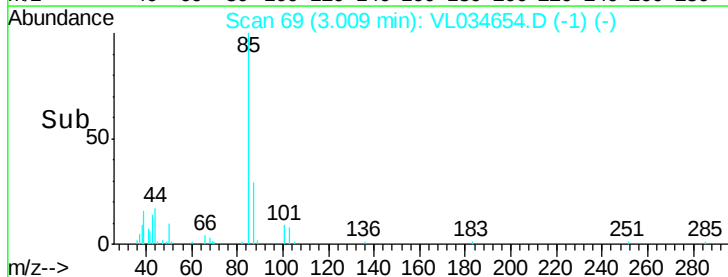
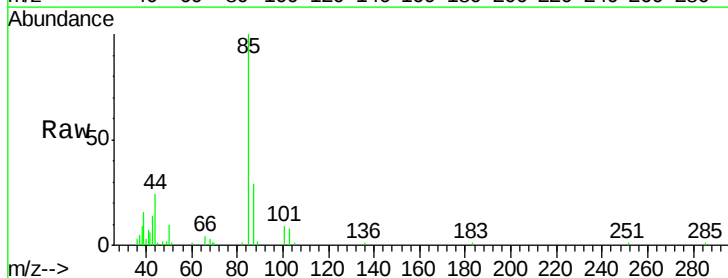
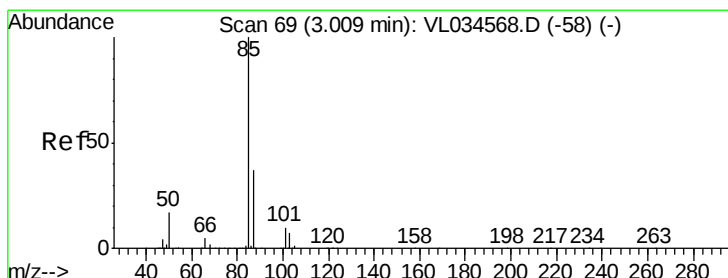
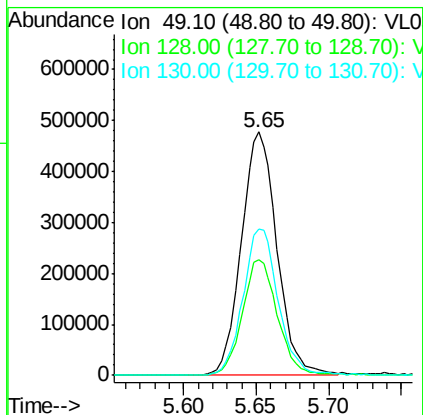
Acq: 19 Feb 2020 21:00

Tot Ion:	49	Resp:	814665
Ion Ratio	Lower	Upper	
49	100		
128	47.2	22.7	68.1
130	59.9	28.6	85.8

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.180 ppbv

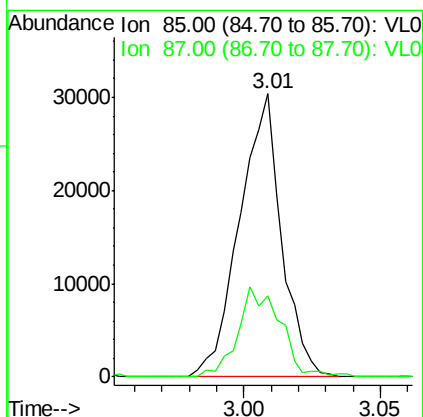
RT: 3.01 min Scan# 69

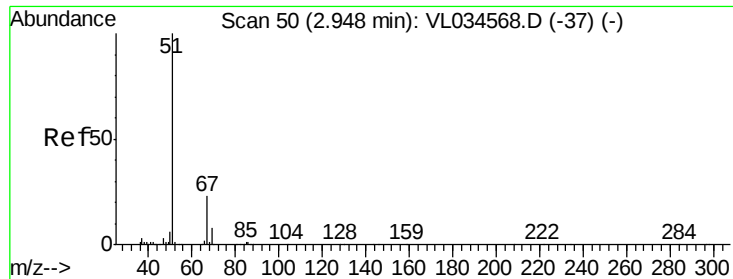
Delta R.T. -0.00 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

Tgt Ion:	85	Resp:	32311
Ion Ratio	Lower	Upper	
85	100		
87	28.7	29.5	44.3#





#3

Chlorodifluoromethane

Concen: 0.303 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.00 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 51 Resp: 29860

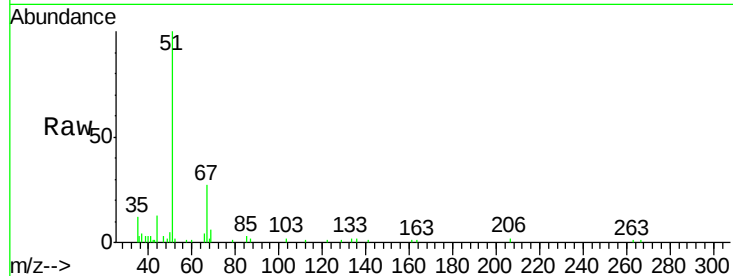
Ion Ratio Lower Upper

51 100

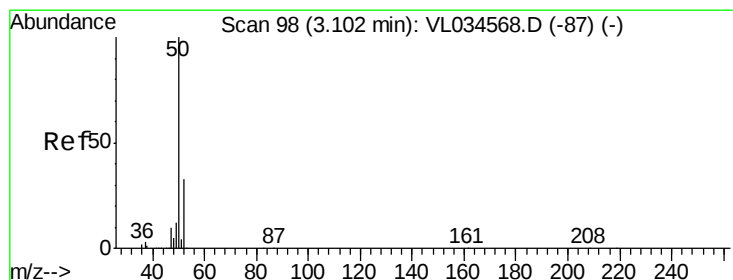
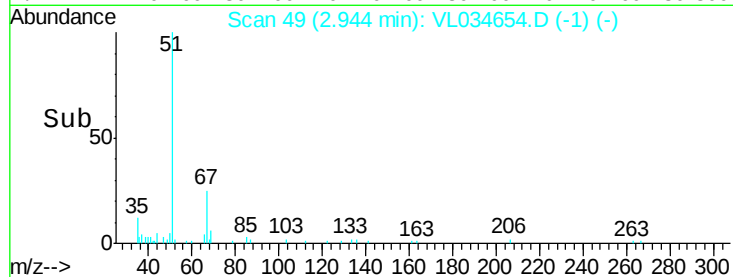
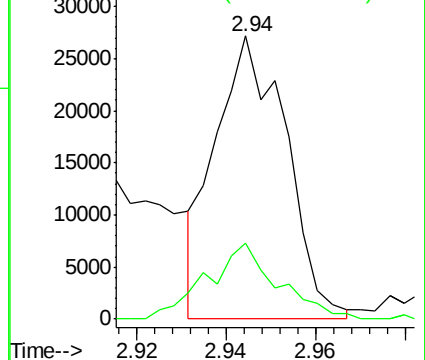
67 27.0 17.8 26.8#

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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: 0.502 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034654.D

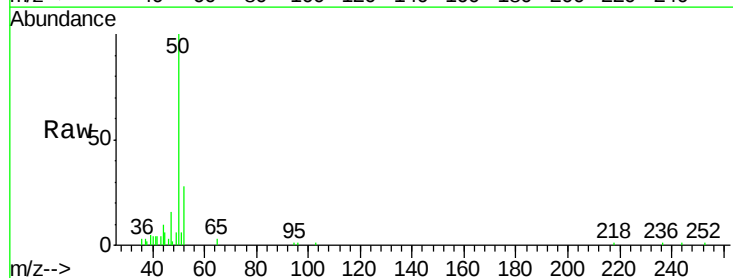
Acq: 19 Feb 2020 21:00

Tgt Ion: 50 Resp: 30225

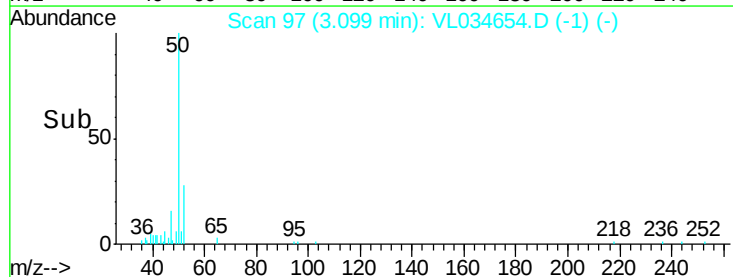
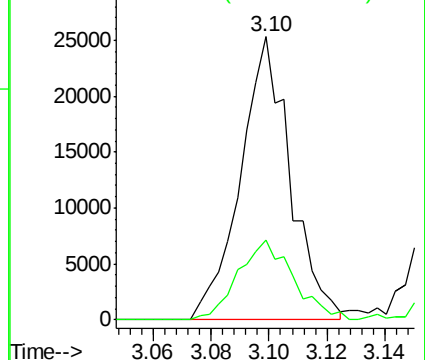
Ion Ratio Lower Upper

50 100

52 28.0 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: 13.931 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampled :

IA-1DUP

Tot Ion: 41 Resp: 533946

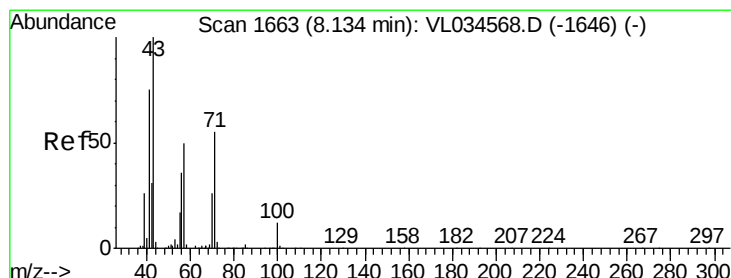
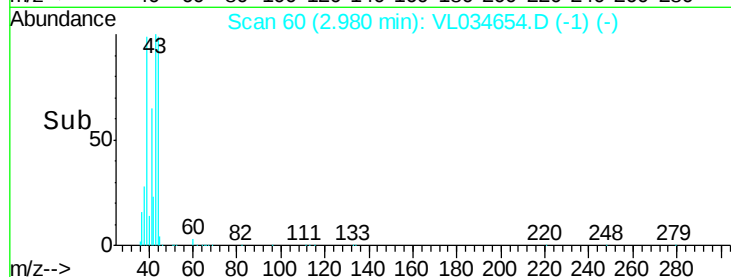
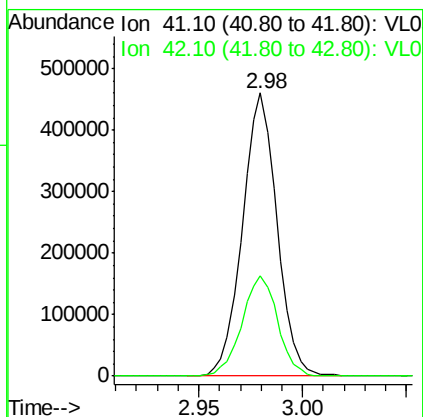
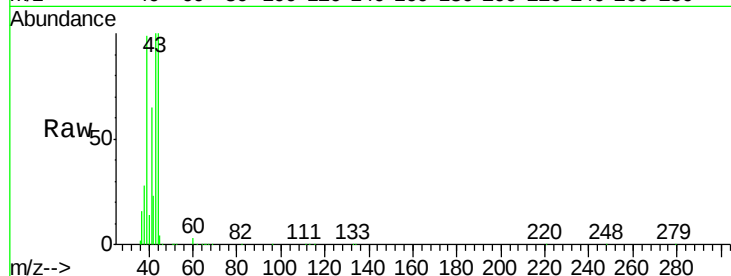
Ion Ratio Lower Upper

41 100

42 110.2 57.0 85.4#

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#10

Heptane

Concen: 0.125 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL034654.D

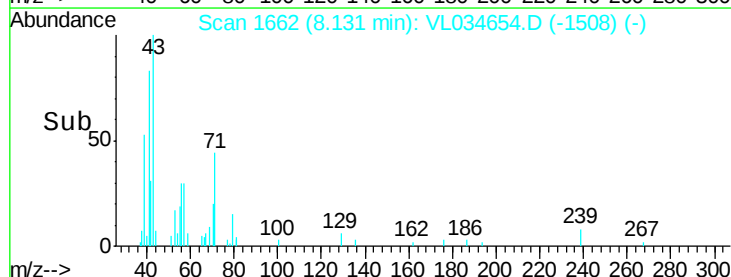
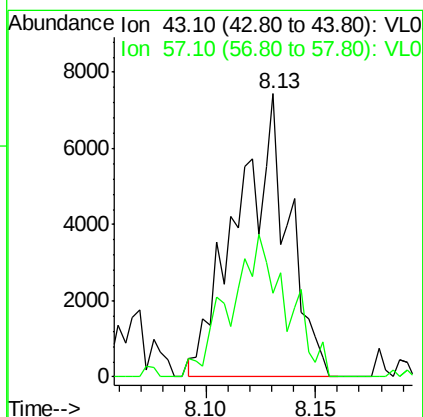
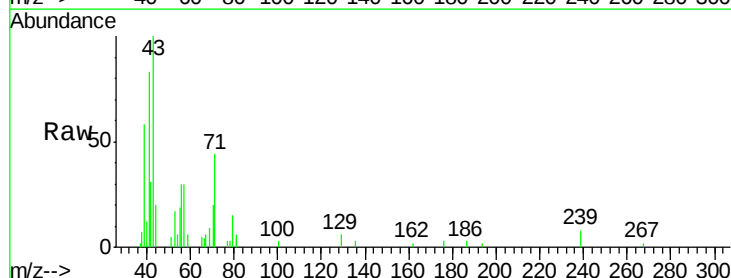
Acq: 19 Feb 2020 21:00

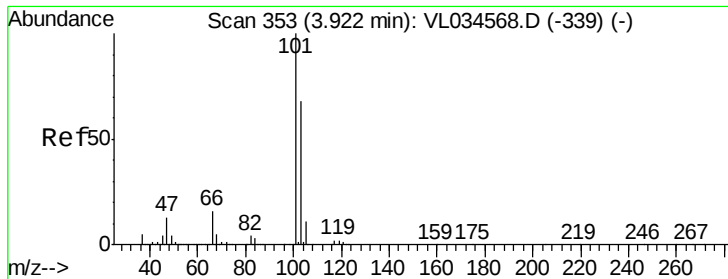
Tgt Ion: 43 Resp: 12030

Ion Ratio Lower Upper

43 100

57 55.9 41.2 61.8





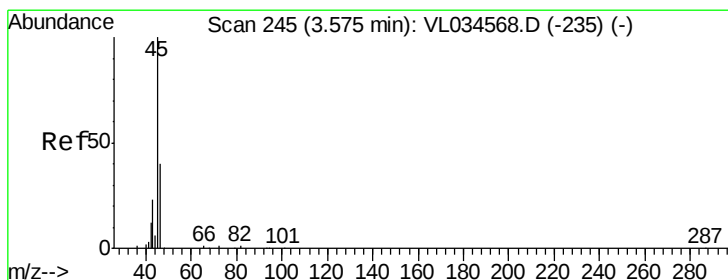
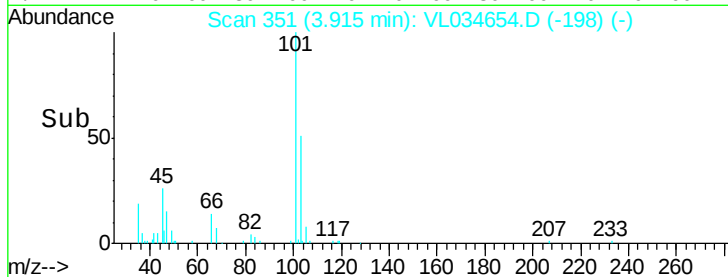
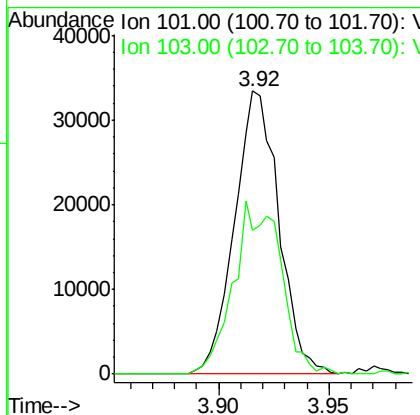
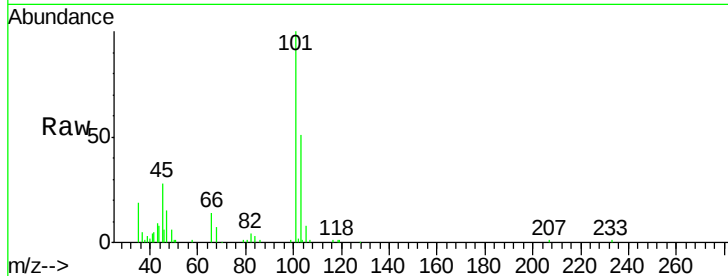
#11
 Trichlorofluoromethane
 Concen: 0.286 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VL034654.D
 Acq: 19 Feb 2020 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Tot Ion: 101 Resp: 46606
 Ion Ratio Lower Upper
 101 100
 103 51.5 54.4 81.6#

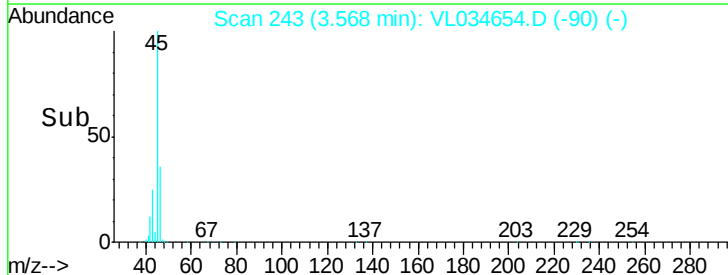
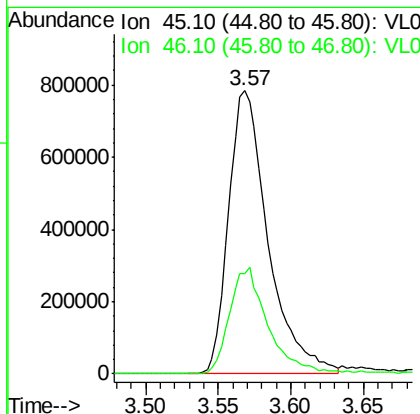
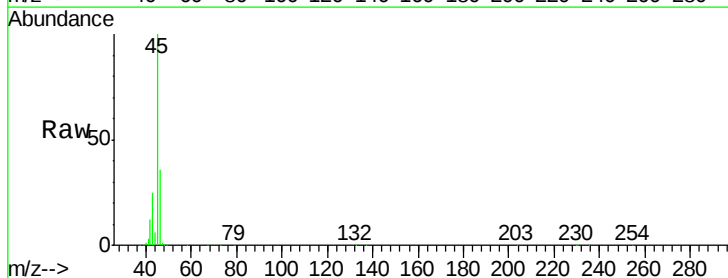
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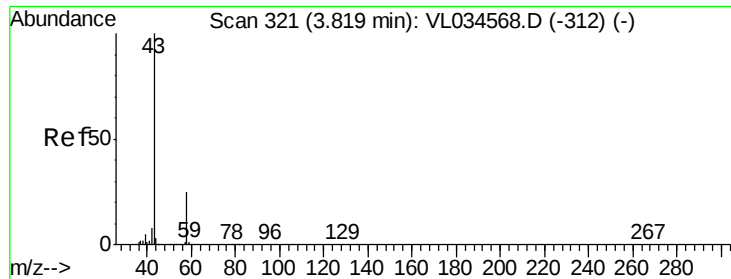
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#13
 Ethanol
 Concen: 144.930 ppbv
 RT: 3.57 min Scan# 243
 Delta R.T. -0.01 min
 Lab File: VL034654.D
 Acq: 19 Feb 2020 21:00

Tgt Ion: 45 Resp: 1487901
 Ion Ratio Lower Upper
 45 100
 46 37.0 14.8 59.2





#15

Acetone

Concen: 3.653 ppbv m

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 43 Resp: 437435

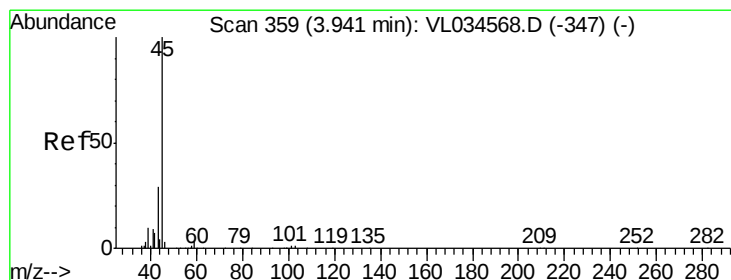
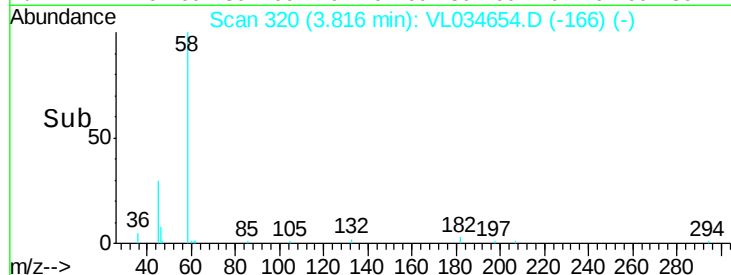
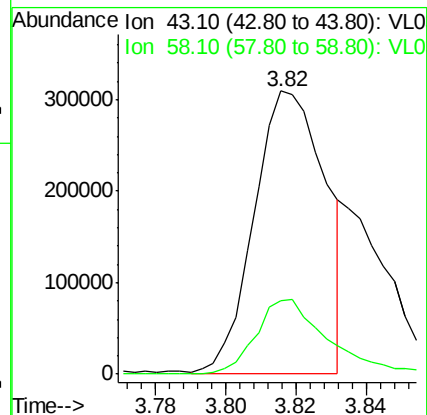
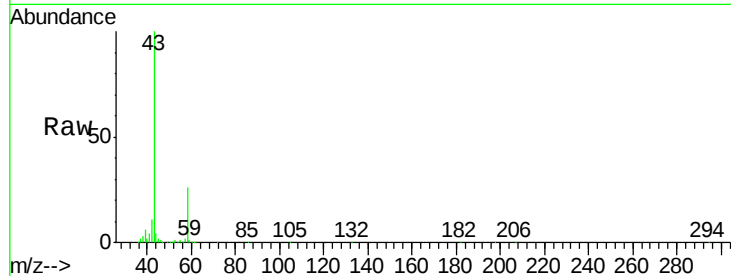
Ion Ratio Lower Upper

43 100

58 27.1 20.3 30.5

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#19

Isopropyl Alcohol

Concen: 1.673 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034654.D

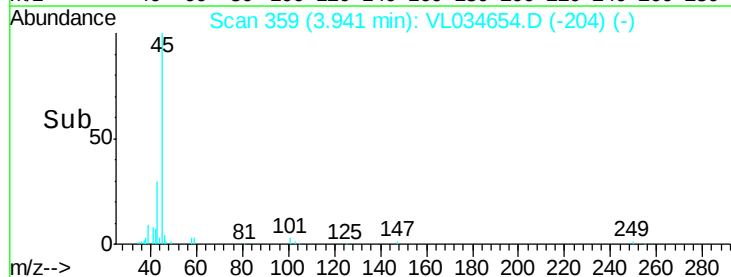
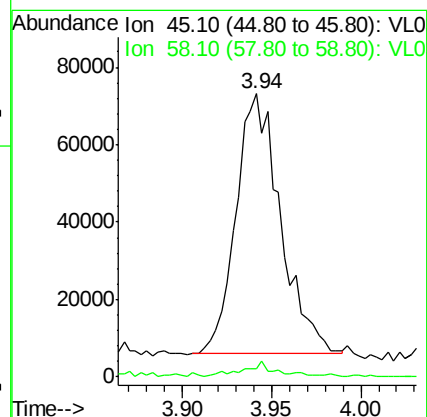
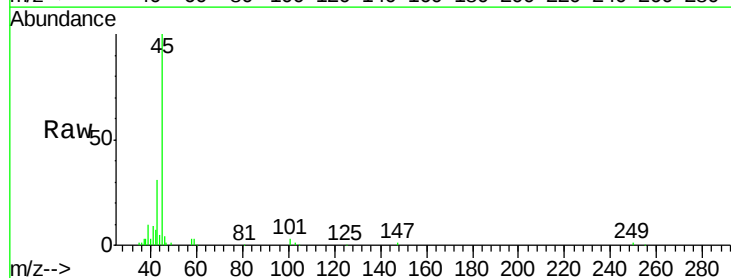
Acq: 19 Feb 2020 21:00

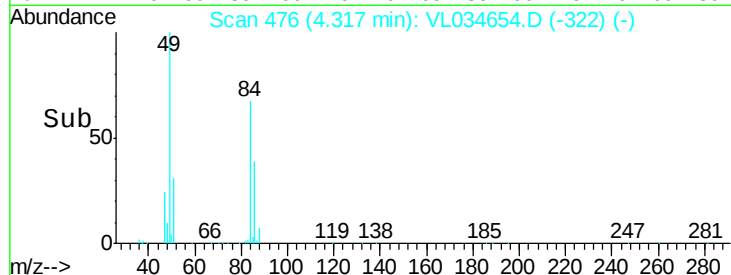
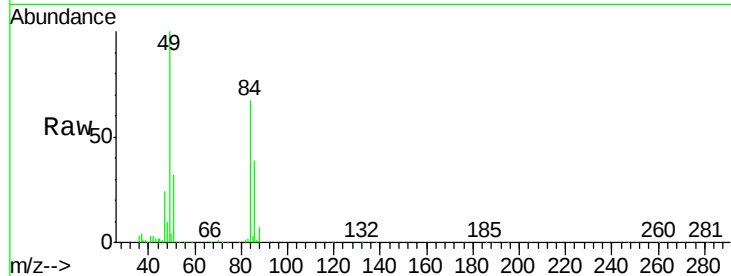
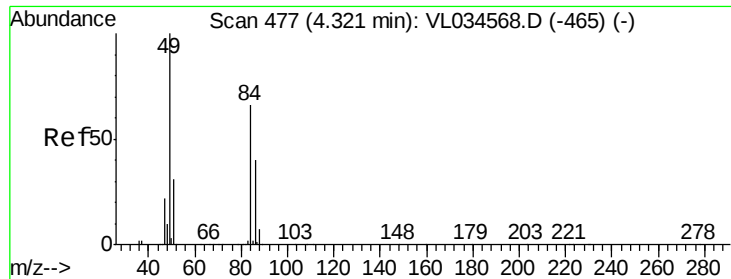
Tgt Ion: 45 Resp: 116892

Ion Ratio Lower Upper

45 100

58 5.0 1.7 2.5#





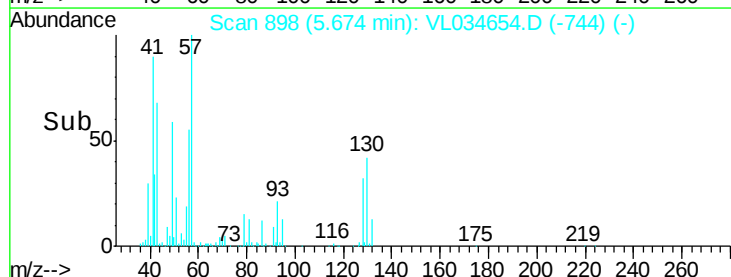
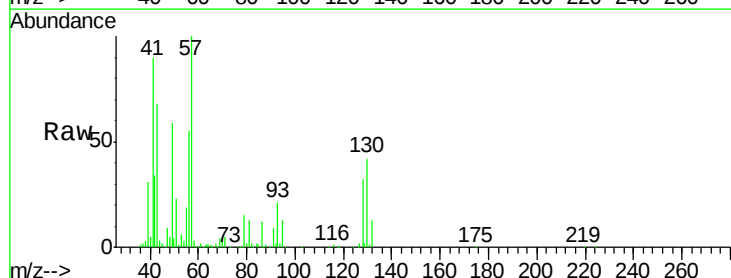
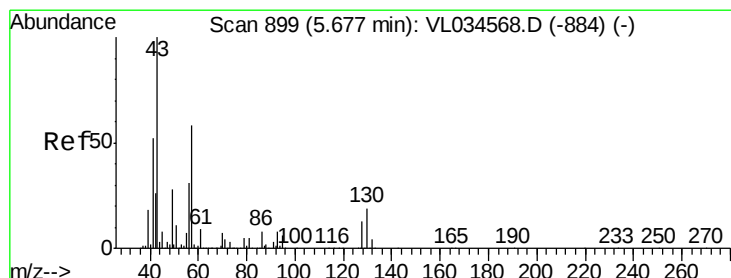
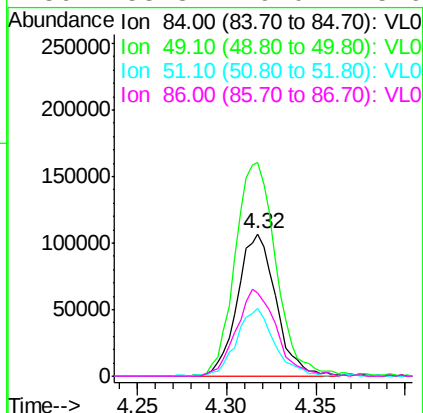
#20
Methylene Chloride
Concen: 3.524 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	150.1	122.4	183.6	
51	47.4	38.6	57.8	
86	58.3	49.0	73.6	

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

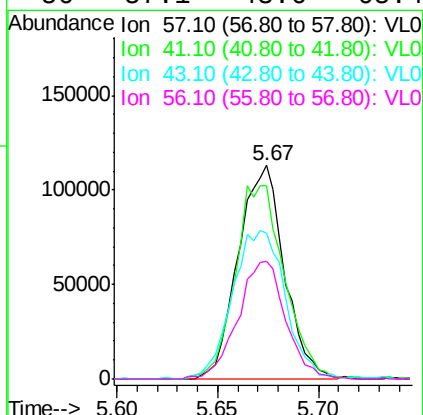
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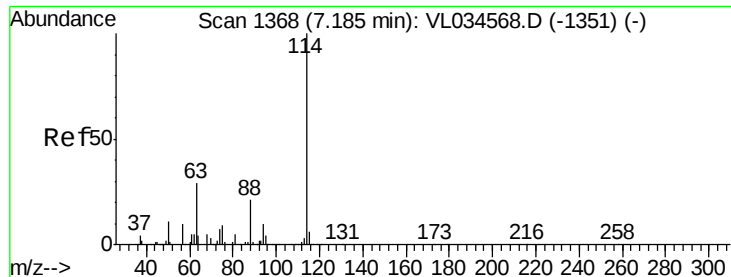
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#26
Hexane
Concen: 2.228 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	97.5	76.2	114.2	
43	79.6	189.9	284.9#	
56	57.1	43.6	65.4	





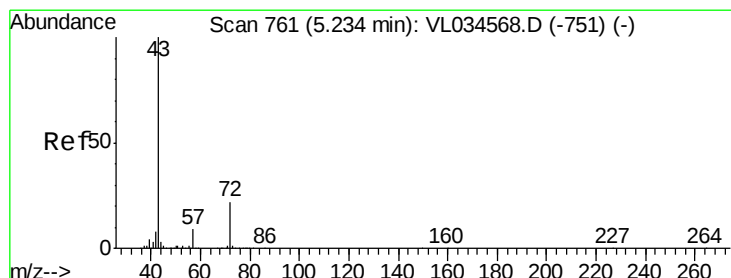
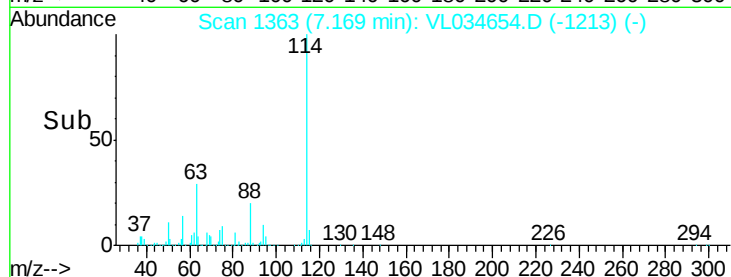
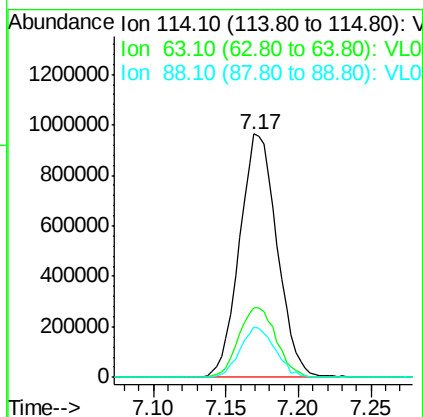
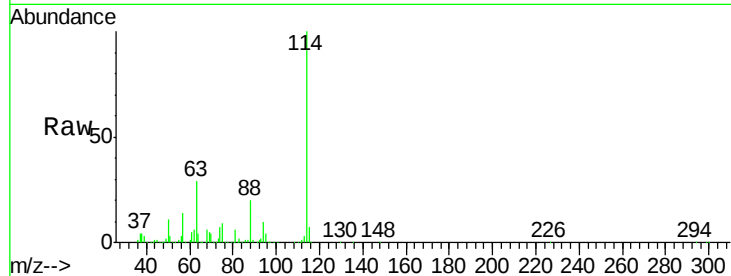
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL034654.D
 Acq: 19 Feb 2020 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Tot Ion:114 Resp: 1737345
 Ion Ratio Lower Upper
 114 100
 63 28.7 24.1 36.1
 88 19.4 15.9 23.9

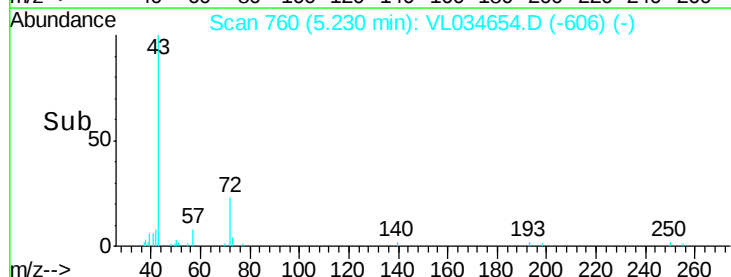
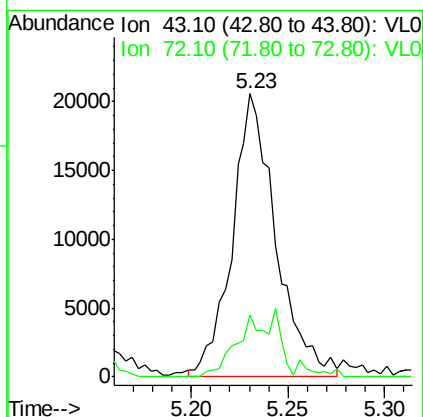
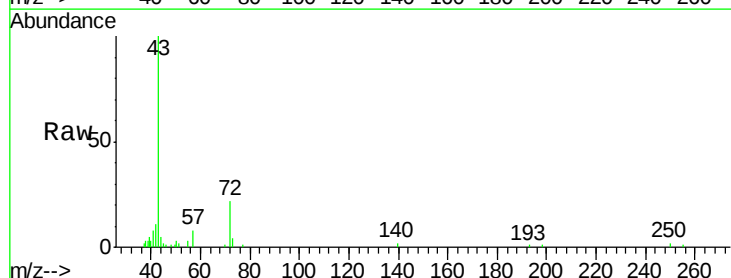
Manual Integrations
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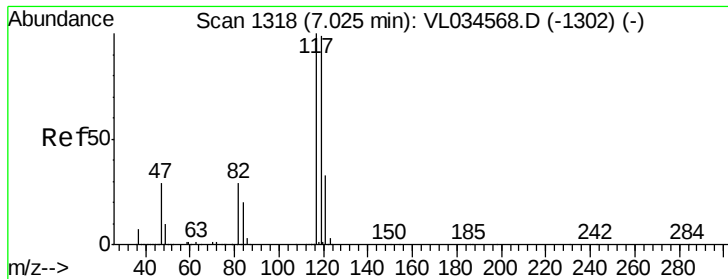
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#34
 2-Butanone
 Concen: 0.257 ppbv m
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL034654.D
 Acq: 19 Feb 2020 21:00

Tgt Ion: 43 Resp: 32405
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#





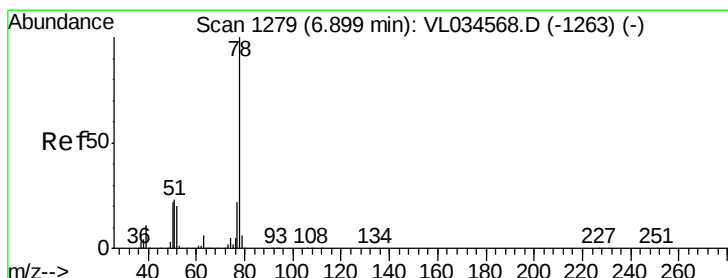
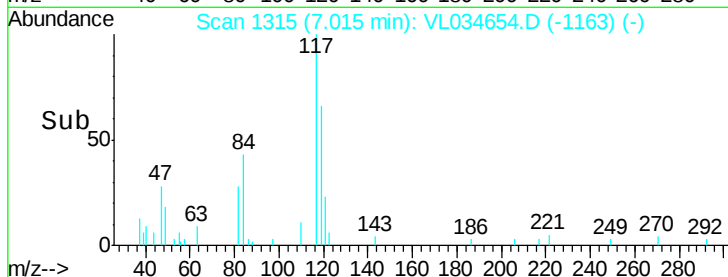
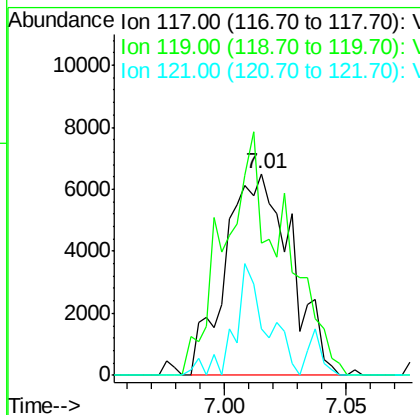
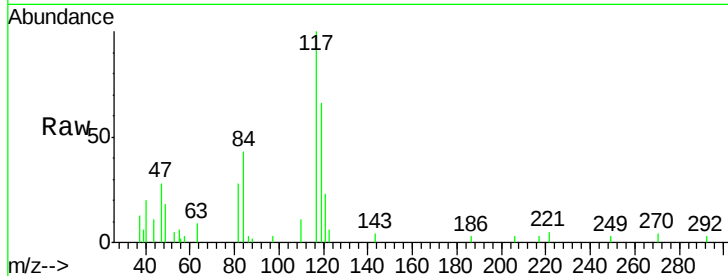
#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	65.7	79.5	119.3#
121	23.0	26.2	39.2#

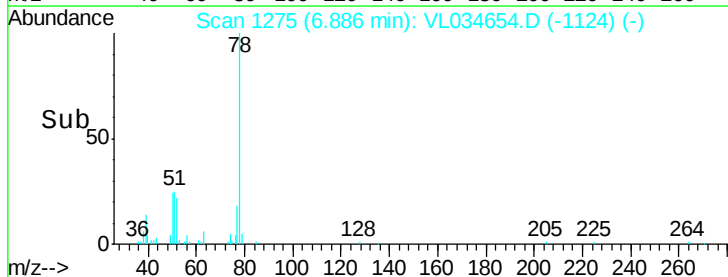
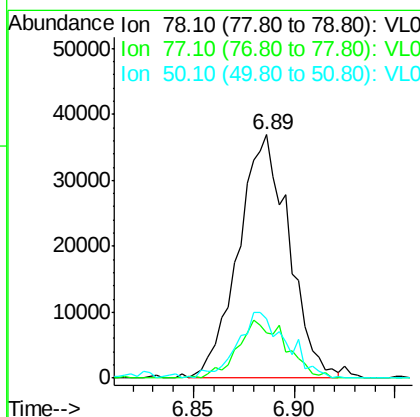
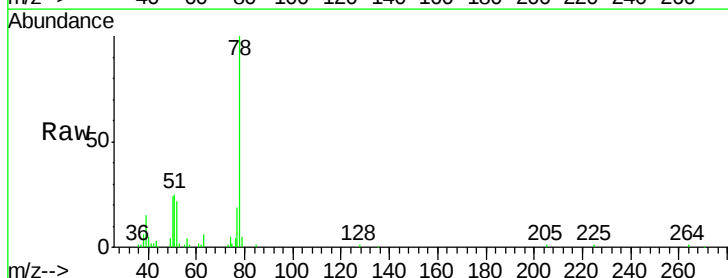
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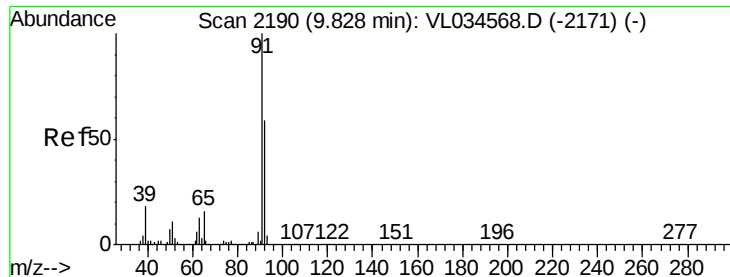
MMDadoda
2/21/2020 3:24:14 PM



#36
Benzene
Concen: 0.419 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.3	17.3	25.9
50	23.6	17.4	26.2





#53

Toluene

Concen: 3.799 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tot Ion: 91 Resp: 644846

Ion Ratio Lower Upper

91 100

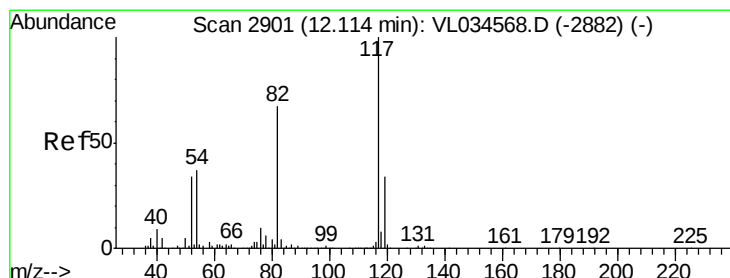
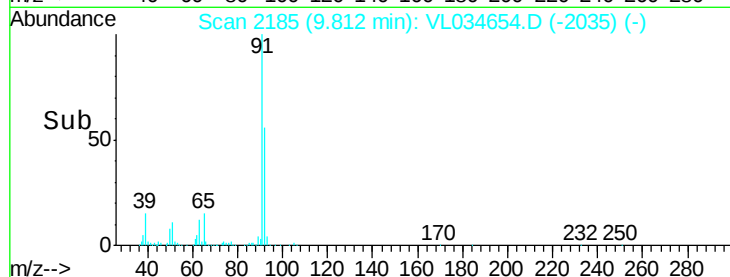
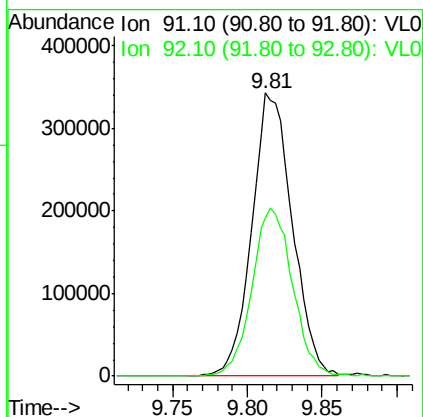
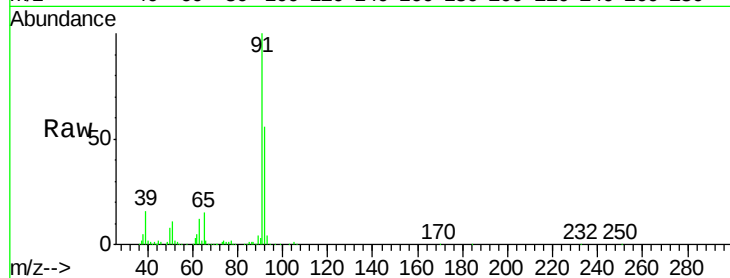
92 59.7 48.2 72.2

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034654.D

Acq: 19 Feb 2020 21:00

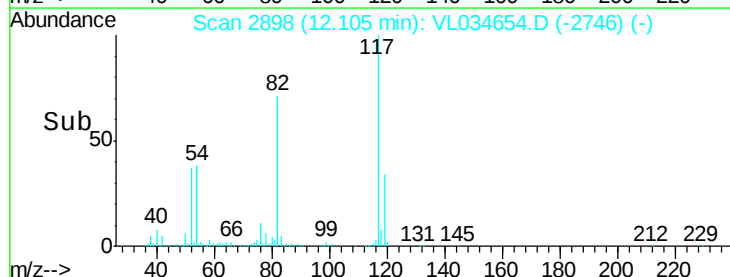
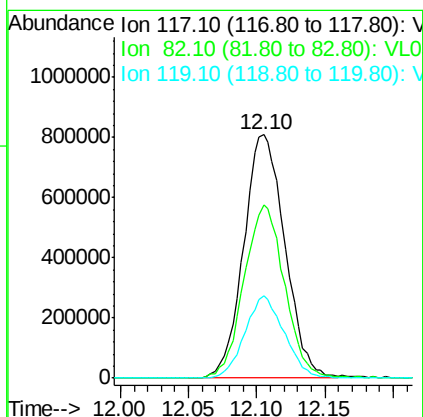
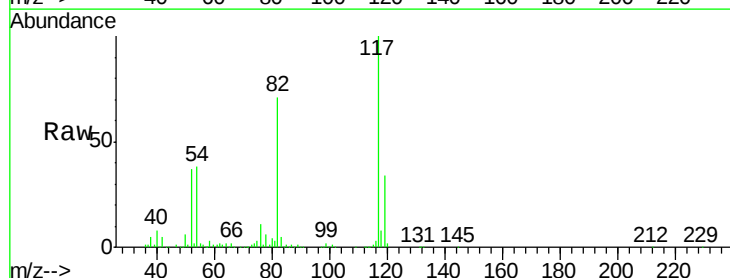
Tgt Ion: 117 Resp: 1696037

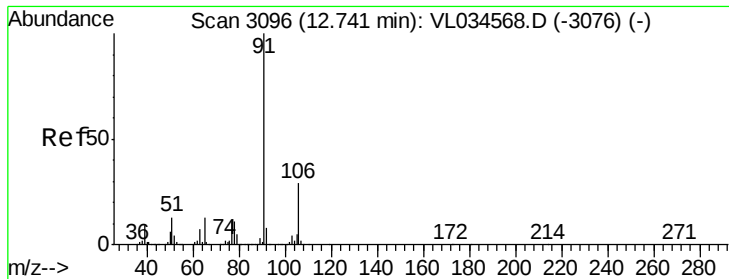
Ion Ratio Lower Upper

117 100

82 70.6 54.2 81.4

119 32.5 26.1 39.1





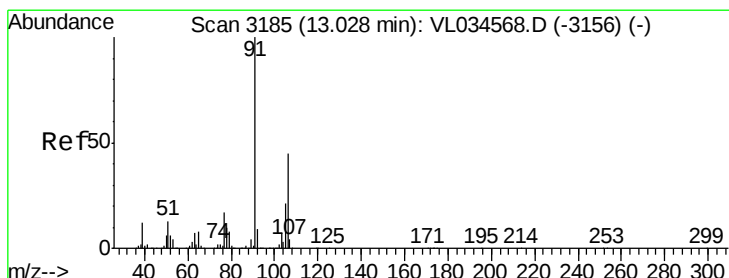
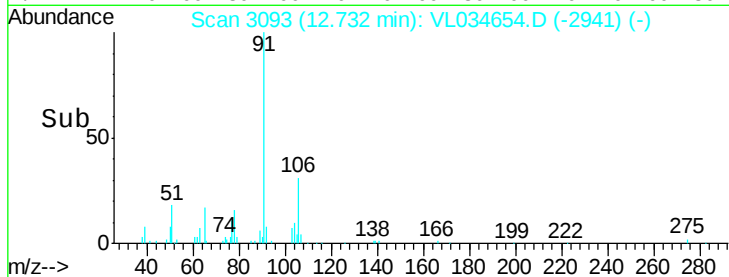
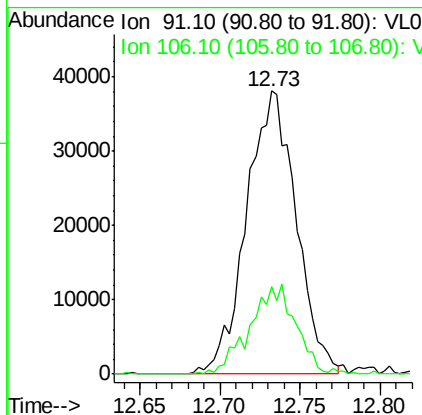
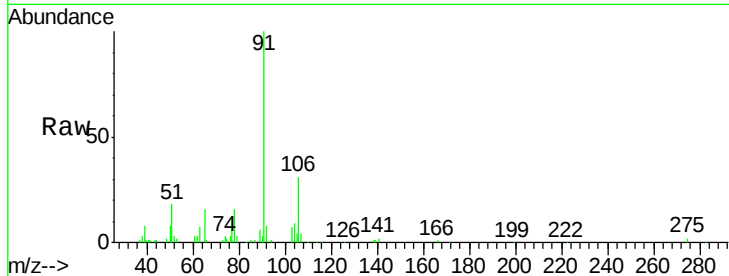
#58
Ethyl Benzene
Concen: 0.357 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. -0.01 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 91 Resp: 81040
Ion Ratio Lower Upper
91 100
106 30.8 23.3 34.9

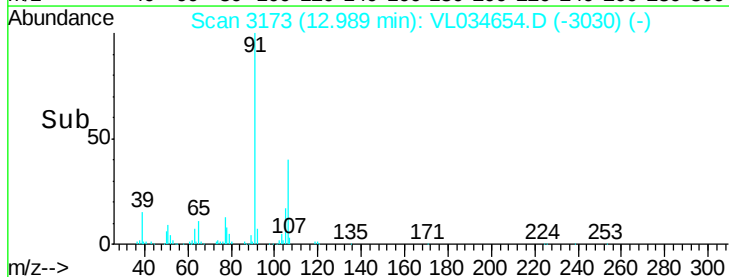
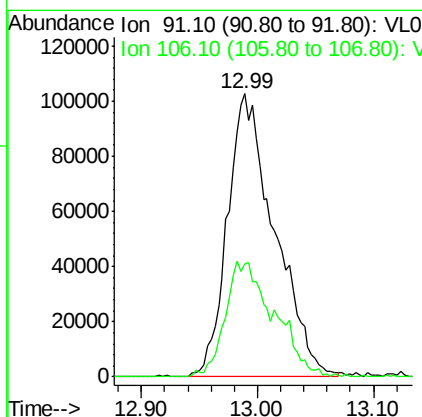
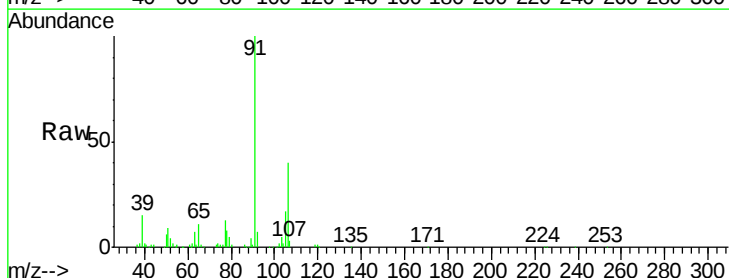
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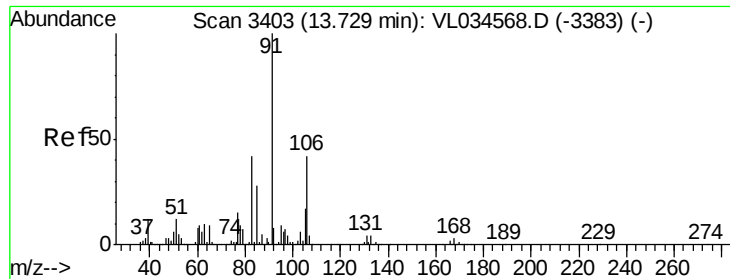
MMDadoda
2/21/2020 3:24:14 PM



#59
m/p-Xylene
Concen: 1.441 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. -0.04 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Tgt Ion: 91 Resp: 289016
Ion Ratio Lower Upper
91 100
106 42.3 35.3 52.9





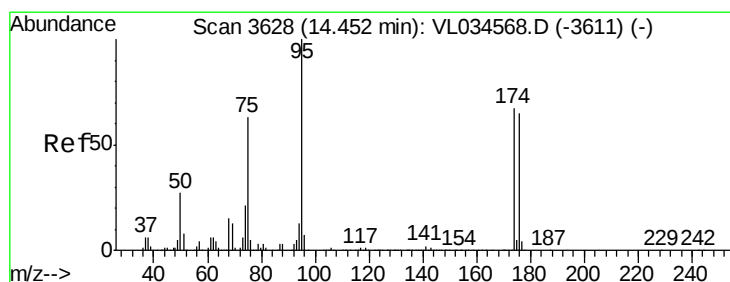
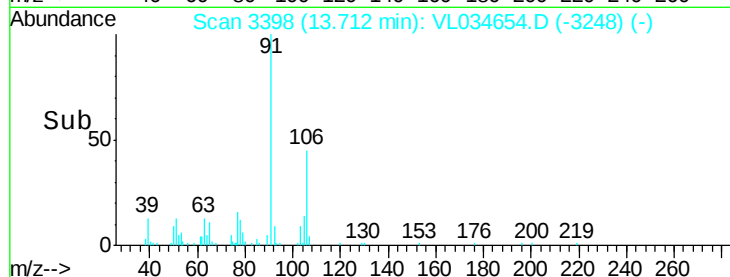
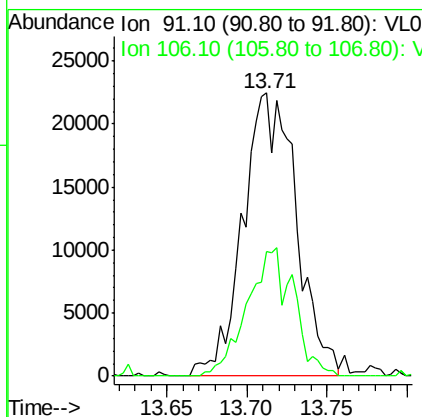
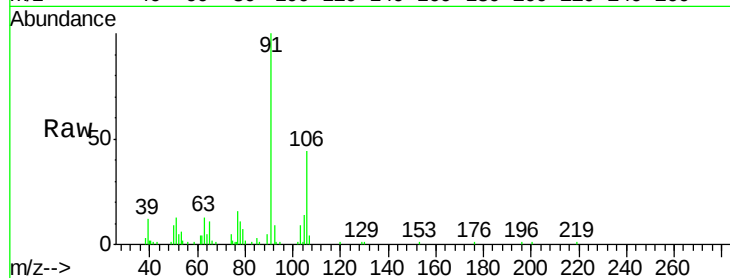
#60
o-Xylene
Concen: 0.260 ppbv m
RT: 13.71 min Scan# 3398
Delta R.T. -0.02 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Instrument :
MSVOA_L
ClientSampled :
IA-1DUP

Tot Ion: 91 Resp: 52320
Ion Ratio Lower Upper
91 100
106 39.3 21.6 65.0

Manual Integrations
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MMDadoda
2/21/2020 3:24:14 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.516 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL034654.D
Acq: 19 Feb 2020 21:00

Tgt Ion: 95 Resp: 1507388
Ion Ratio Lower Upper
95 100
174 63.7 52.3 78.5
175 4.4 3.8 5.6

