

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034639.D
 Acq On : 19 Feb 2020 00:58
 Operator : SY/AP
 Sample : L1554-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:26:30 PM

Quant Time: Feb 21 09:39:41 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	834720	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1777312	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2044094	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1897890	10.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.90%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	48031	0.261	ppbv #	84
3) Chlorodifluoromethane	2.95	51	28077m	0.278	ppbv	
11) Trichlorofluoromethane	3.92	101	48321m	0.289	ppbv	
13) Ethanol	3.57	45	221559	21.063	ppbv	96
15) Acetone	3.82	43	534740	4.359	ppbv	96
17) tert-Butyl alcohol	4.27	59	135167m	1.498	ppbv	
19) Isopropyl Alcohol	3.95	45	42962	0.600	ppbv #	73
20) Methylene Chloride	4.32	84	83252	1.782	ppbv #	96
26) Hexane	5.68	57	34390	0.413	ppbv #	5
27) Carbon Disulfide	4.53	76	517840	4.613	ppbv	98
34) 2-Butanone	5.22	43	1904804	14.760	ppbv	98
35) Carbon Tetrachloride	7.02	117	9671m	0.057	ppbv	
36) Benzene	6.89	78	22696m	0.144	ppbv	
52) Tetrachloroethene	11.25	164	24765m	0.390	ppbv	
53) Toluene	9.82	91	1076585	6.200	ppbv	100
58) Ethyl Benzene	12.74	91	1522296	5.565	ppbv	100
59) m/p-Xylene	13.00	91	1998775	8.266	ppbv	99
60) o-Xylene	13.73	91	698233	2.875	ppbv	97
61) Styrene	13.57	104	10869589	67.132	ppbv #	86
62) Isopropylbenzene	14.71	105	14446152	45.908	ppbv #	71
64) n-propylbenzene	15.60	120	25841m	0.319	ppbv	
72) 4-Ethyltoluene	15.87	105	125467	0.470	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.04	105	61928m	0.238	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	271612m	0.941	ppbv	

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

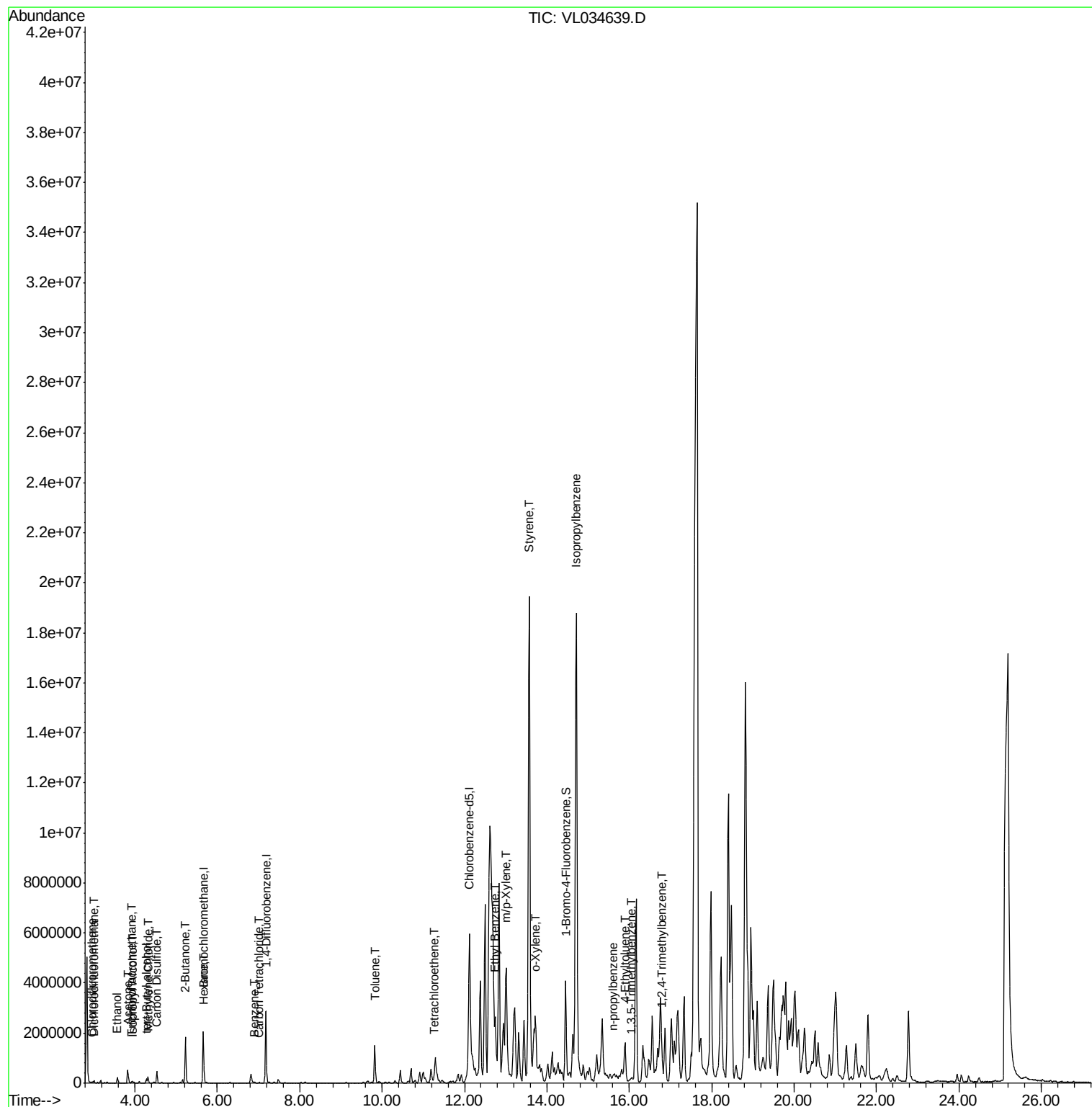
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034639.D
Acq On : 19 Feb 2020 00:58
Operator : SY/AP
Sample : L1554-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

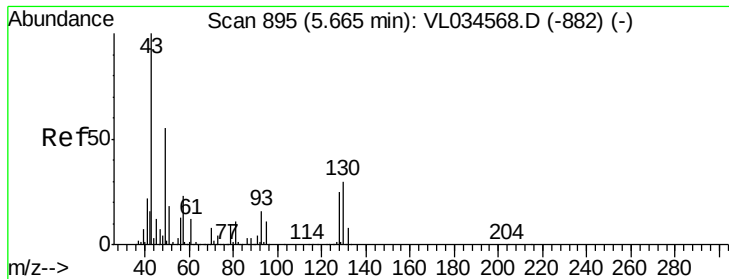
Instrument :
MSVOA_L
ClientSampleId :
SS-1

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Quant Time: Feb 21 09:39:41 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# 892

Delta R.T. -0.01 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Instrument :

MSVOA_L

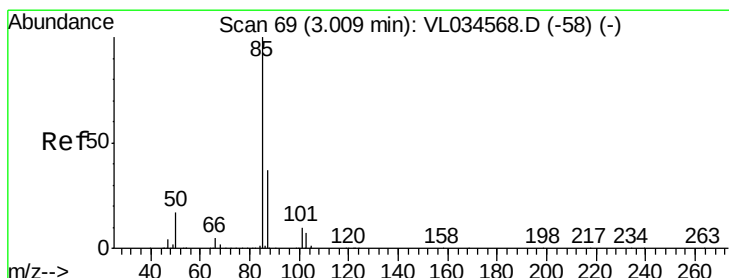
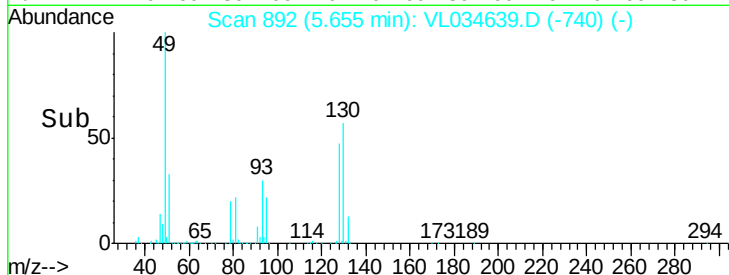
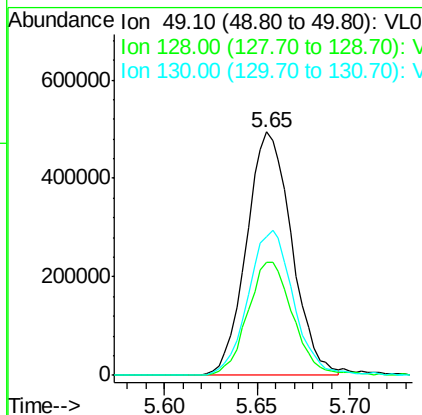
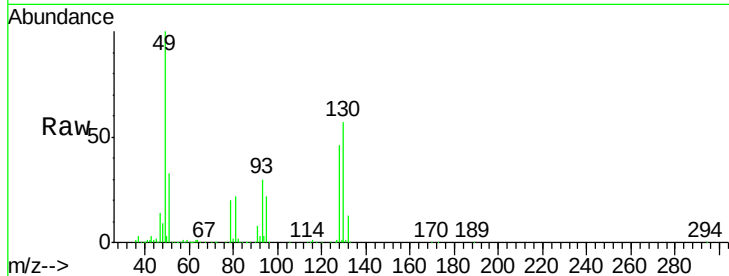
ClientSampled :

SS-1

Tot Ion	49	Resp	834720
Ion	Ratio	Lower	Upper
49	100		
128	47.0	22.7	68.1
130	60.3	28.6	85.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

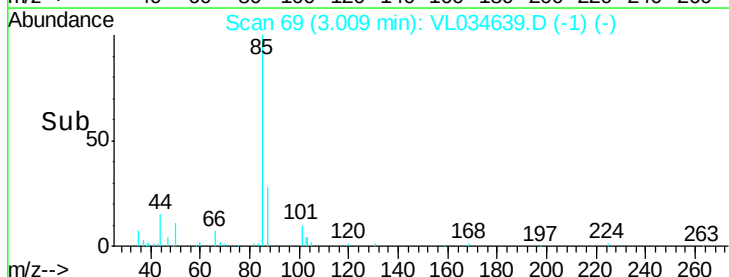
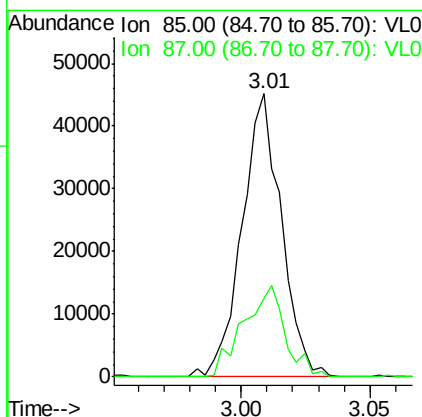
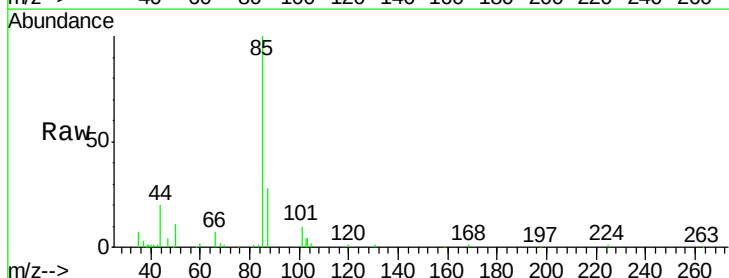
RT: 3.01 min Scan# 69

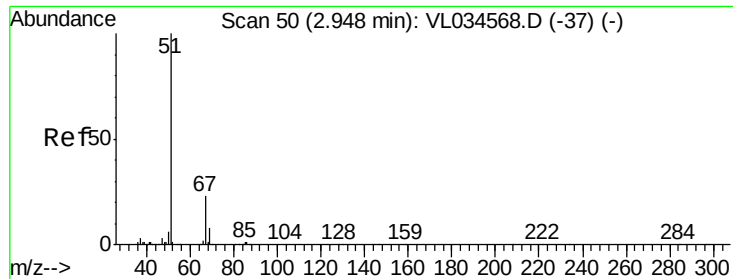
Delta R.T. -0.00 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Tgt Ion	85	Resp	48031
Ion	Ratio	Lower	Upper
85	100		
87	27.6	29.5	44.3





#3

Chlorodifluoromethane

Concen: 0.278 ppbv m

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 51 Resp: 28077

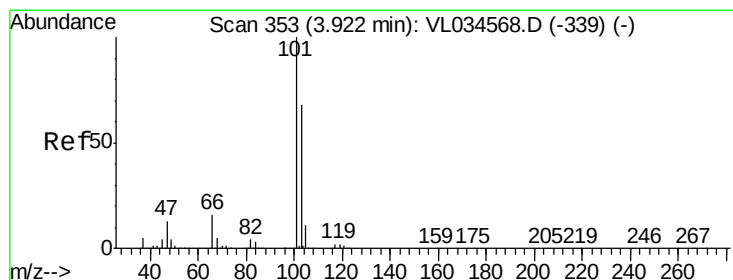
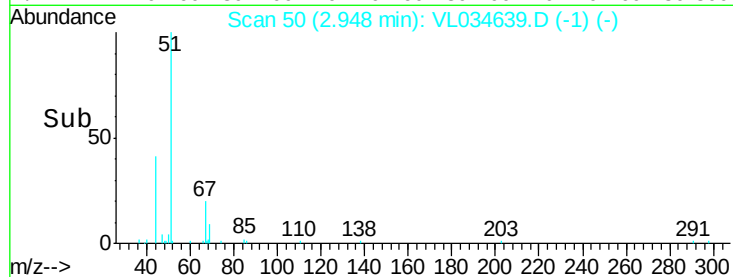
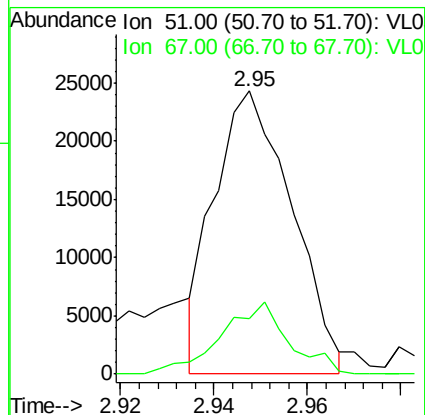
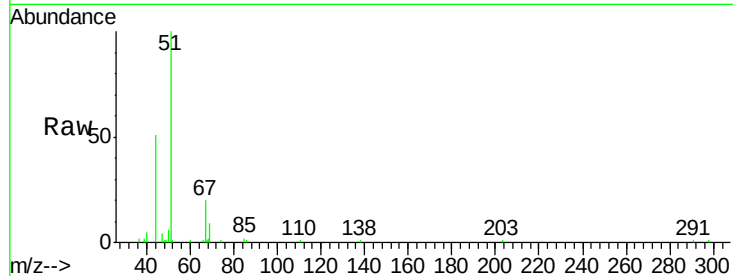
Ion Ratio Lower Upper

51 100

67 22.5 17.8 26.8

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#11

Trichlorofluoromethane

Concen: 0.289 ppbv m

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034639.D

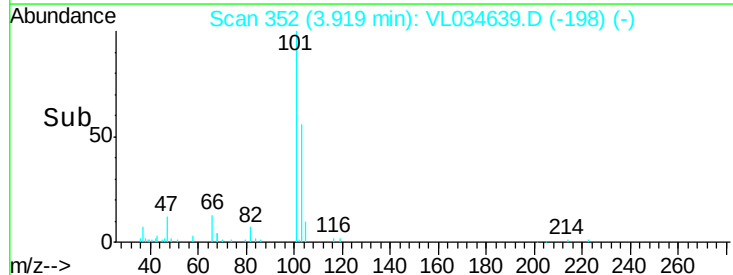
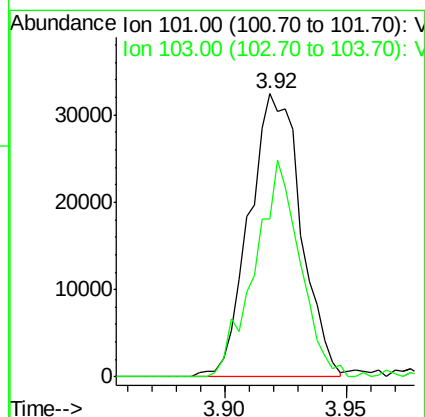
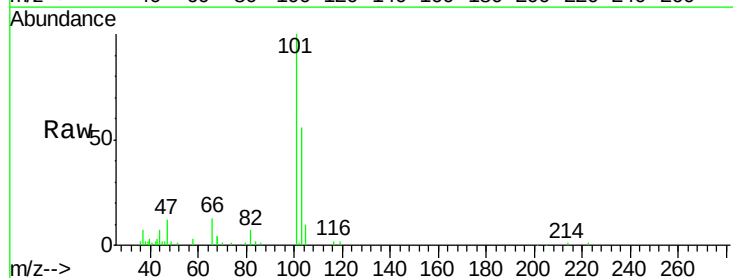
Acq: 19 Feb 2020 00:58

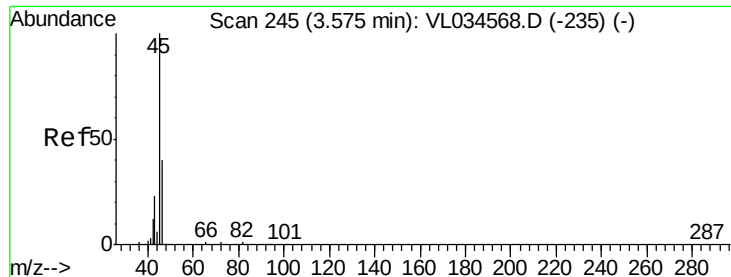
Tgt Ion: 101 Resp: 48321

Ion Ratio Lower Upper

101 100

103 55.7 54.4 81.6





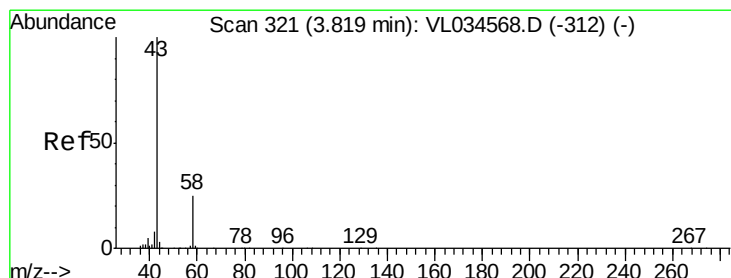
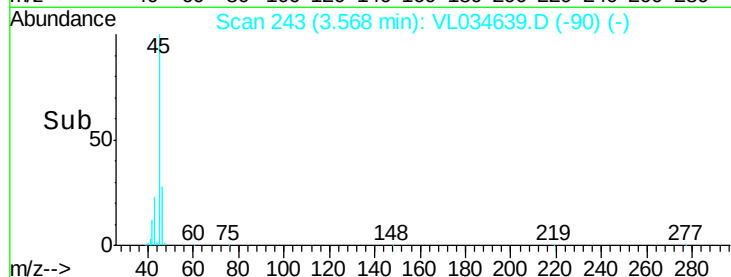
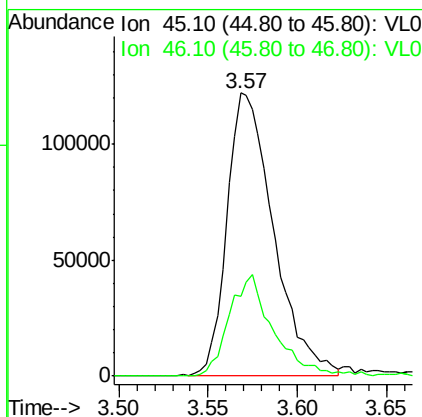
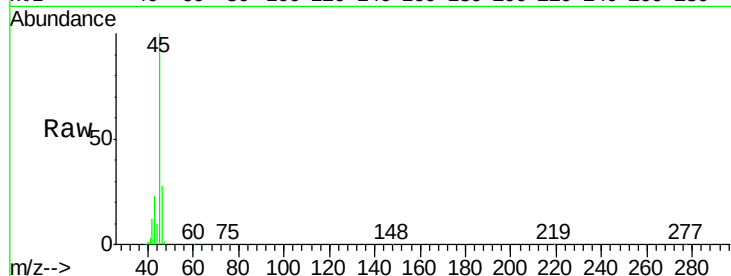
#13
Ethanol
Concen: 21.063 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.01 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 45 Resp: 221559
Ion Ratio Lower Upper
45 100
46 34.8 14.8 59.2

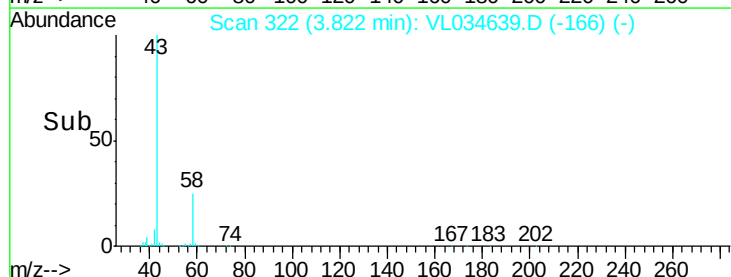
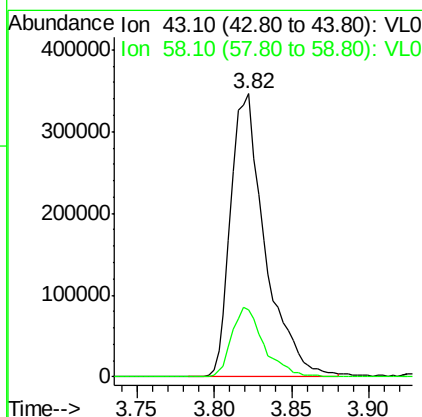
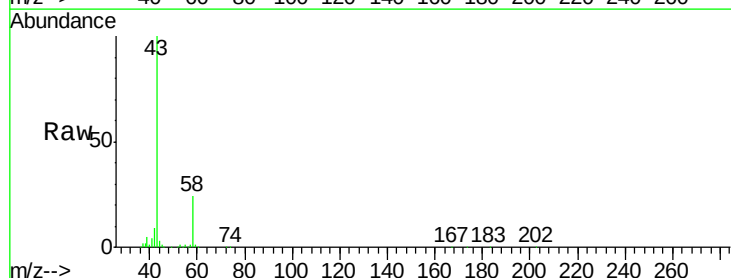
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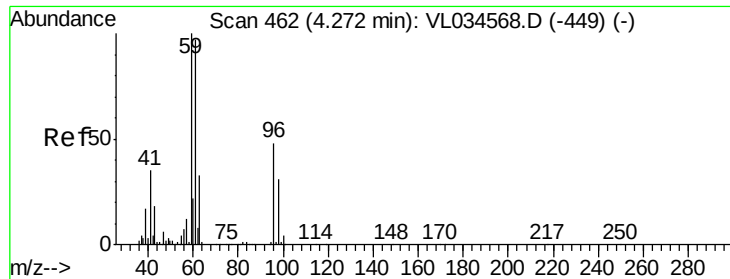
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#15
Acetone
Concen: 4.359 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion: 43 Resp: 534740
Ion Ratio Lower Upper
43 100
58 23.2 20.3 30.5





#17

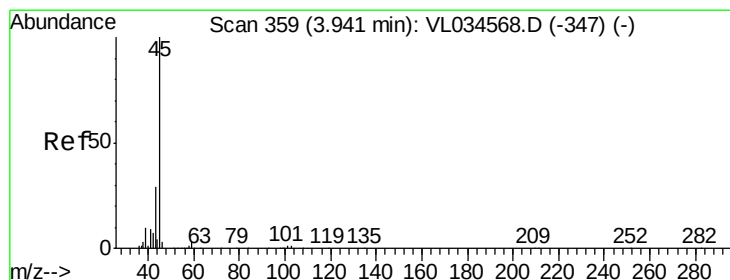
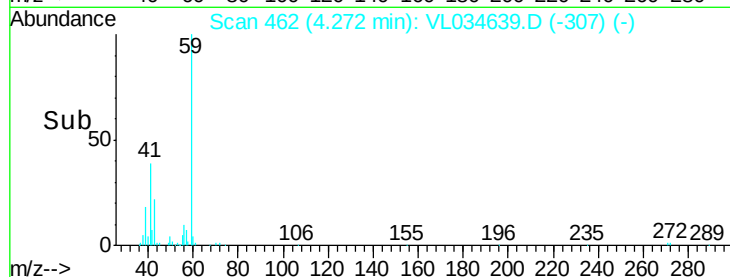
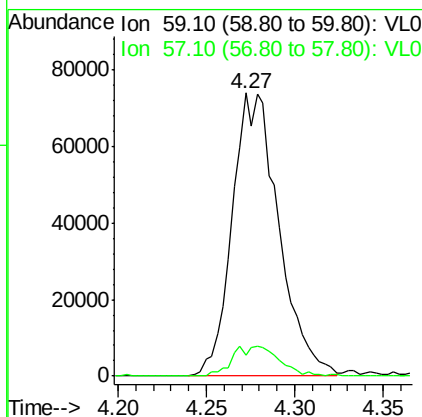
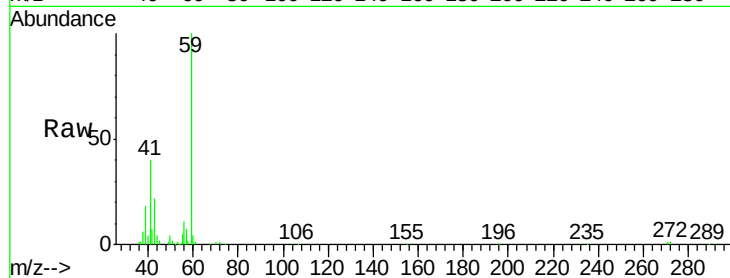
tert-Butyl alcohol
 Concen: 1.498 ppbv m
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion: 59 Resp: 135167
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.7 13.1

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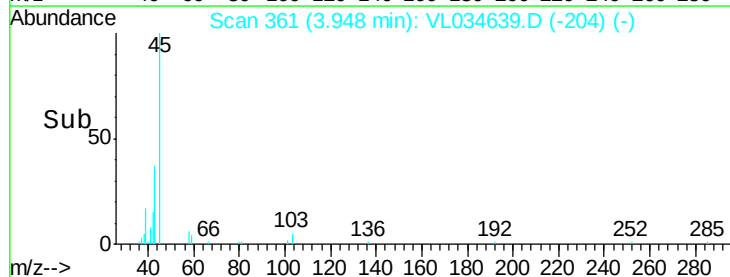
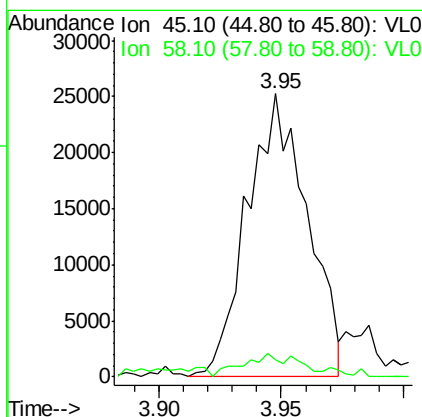
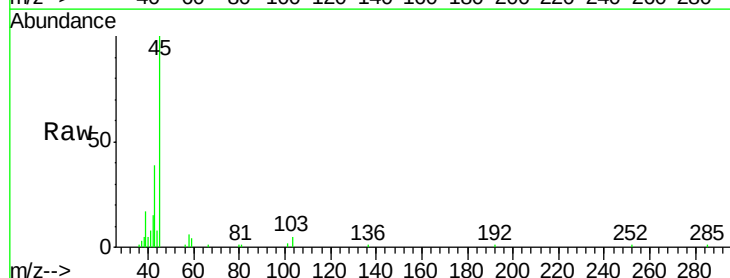
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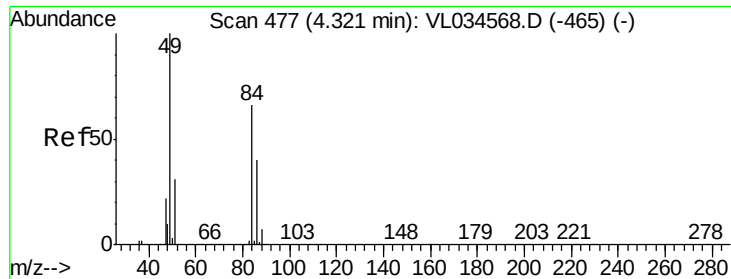


#19

Isopropyl Alcohol
 Concen: 0.600 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Tgt Ion: 45 Resp: 42962
 Ion Ratio Lower Upper
 45 100
 58 11.5 1.7 2.5#





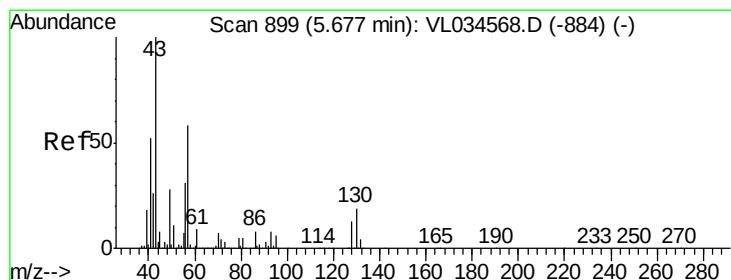
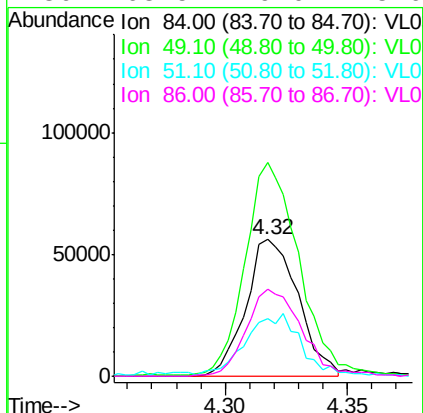
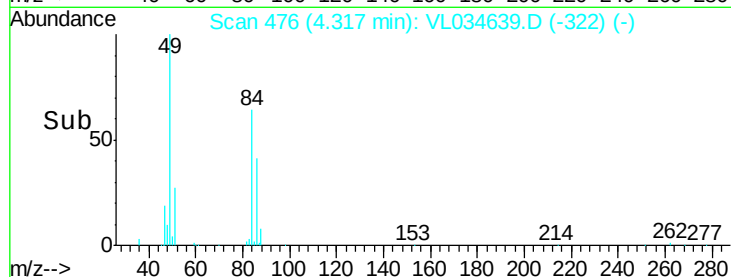
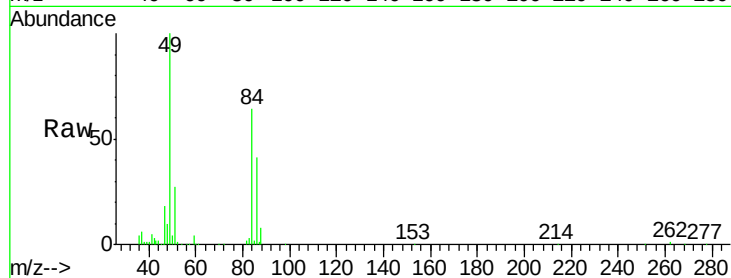
#20
Methvlene Chloride
Concen: 1.782 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	Ratio	Lower	Upper
84	100		
49	155.3	122.4	183.6
51	38.5	38.6	57.8#
86	63.5	49.0	73.6

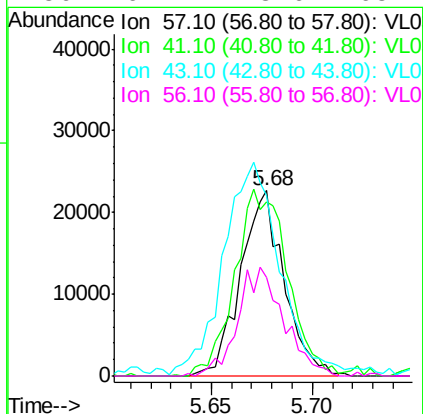
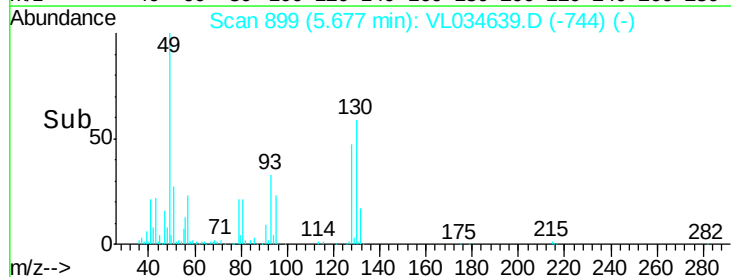
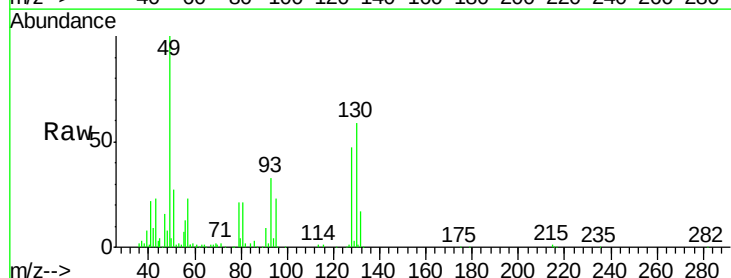
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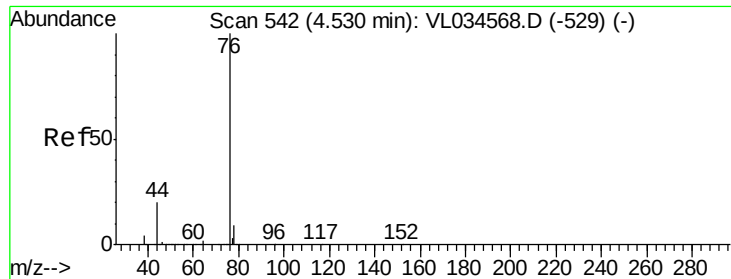
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#26
Hexane
Concen: 0.413 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	122.8	76.2	114.2#
43	0.0	189.9	284.9#
56	61.4	43.6	65.4





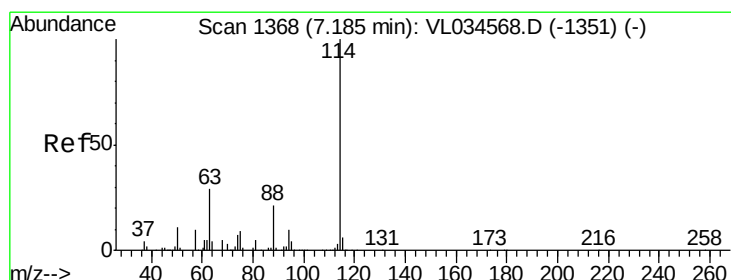
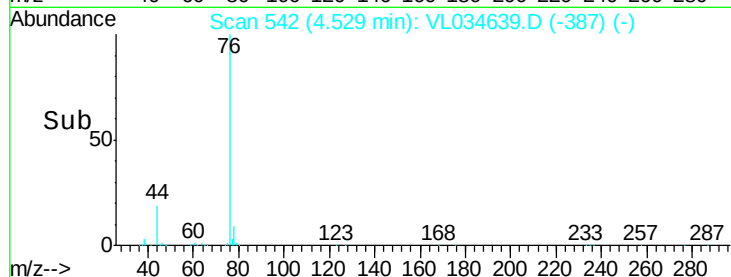
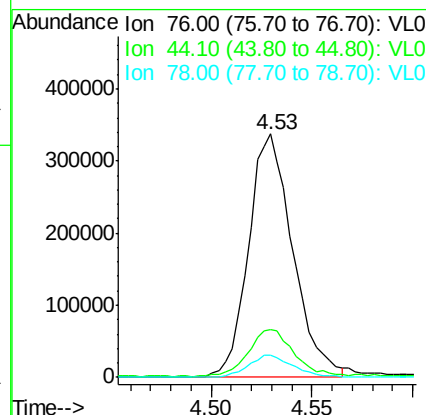
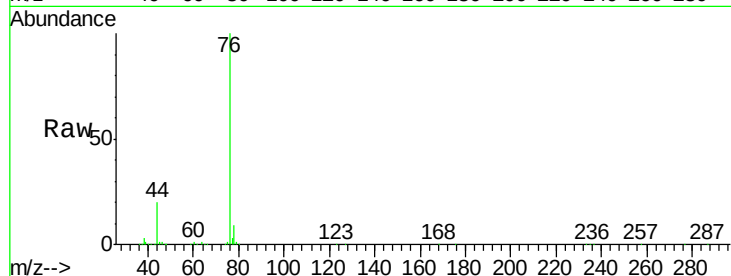
#27
Carbon Disulfide
Concen: 4.613 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	Ratio	Lower	Upper
76	100		
44	21.3	16.3	24.5
78	9.6	7.4	11.2

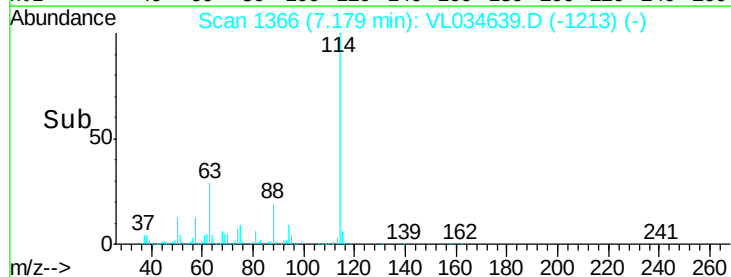
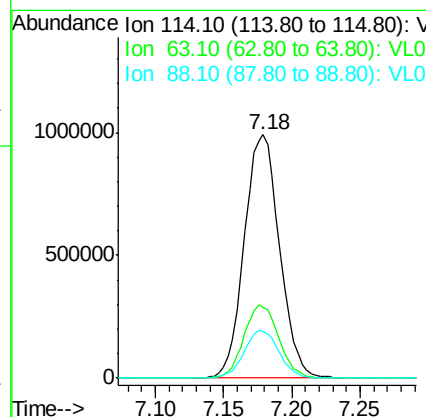
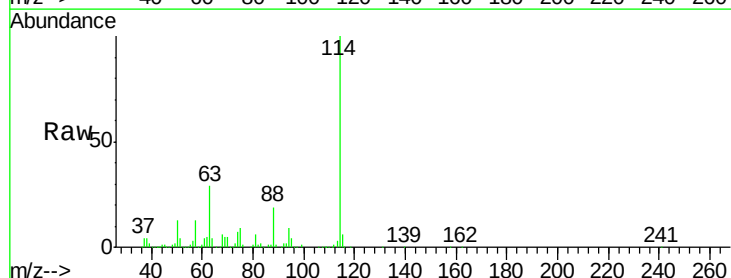
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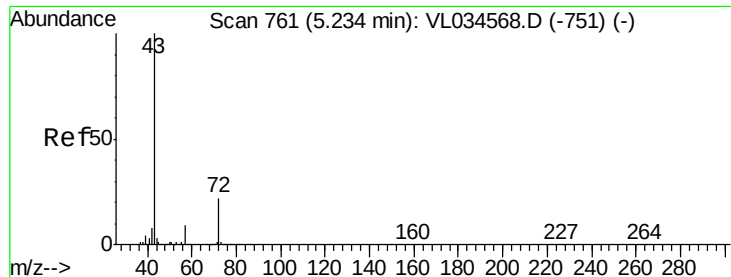
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.0	24.1	36.1
88	19.6	15.9	23.9





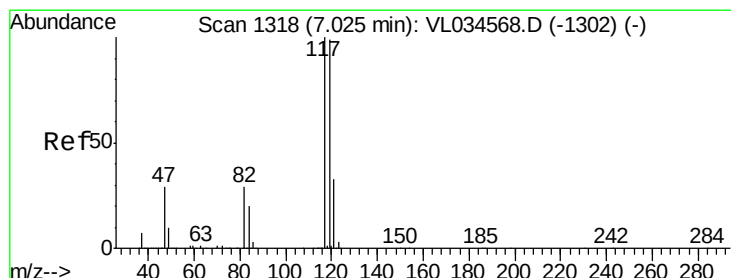
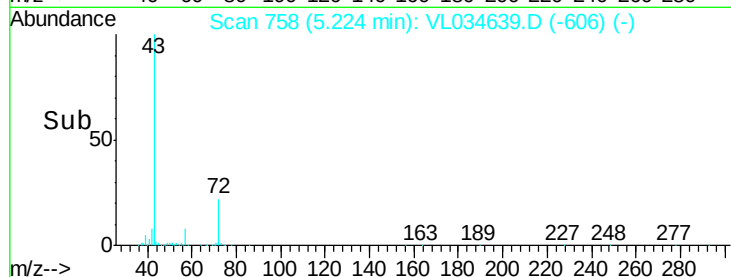
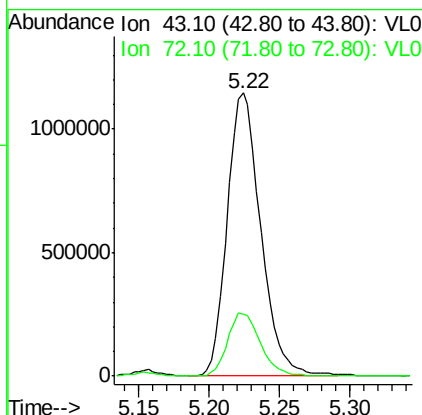
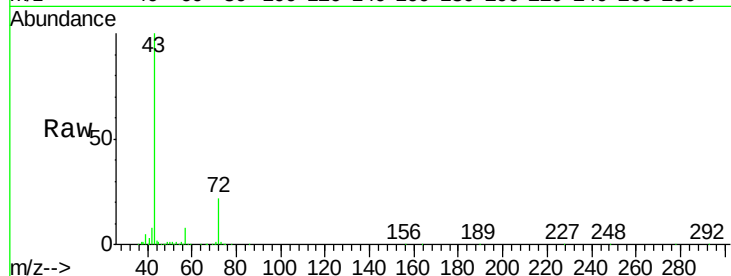
#34
2-Butanone
Concen: 14.760 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 43 Resp: 1904804
Ion Ratio Lower Upper
43 100
72 22.4 17.2 25.8

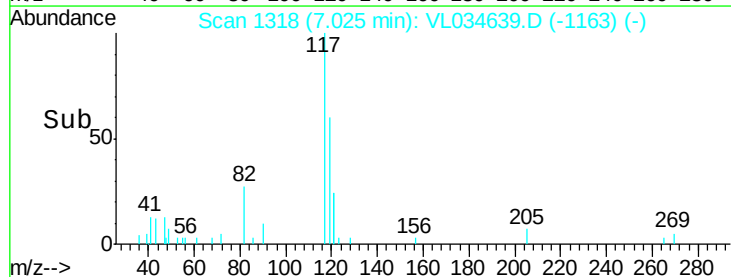
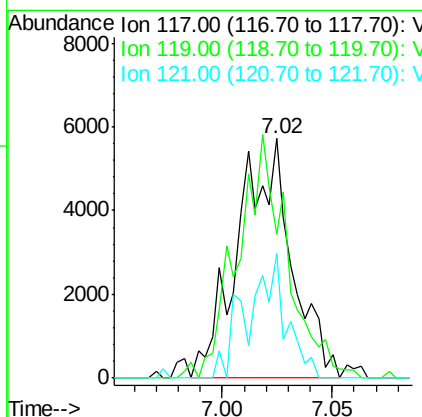
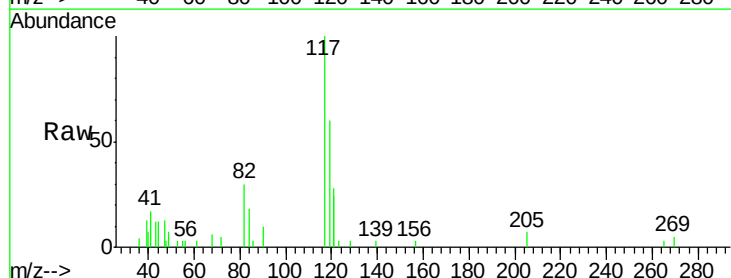
Manual Integrations
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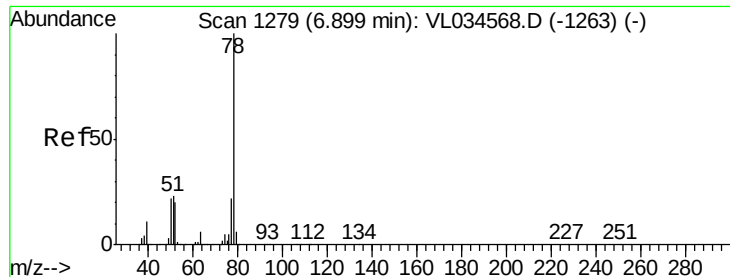
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#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion: 117 Resp: 9671
Ion Ratio Lower Upper
117 100
119 59.8 79.5 119.3#
121 27.7 26.2 39.2





#36

Benzene

Concen: 0.144 ppbv m

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Instrument :

MSVOA_L

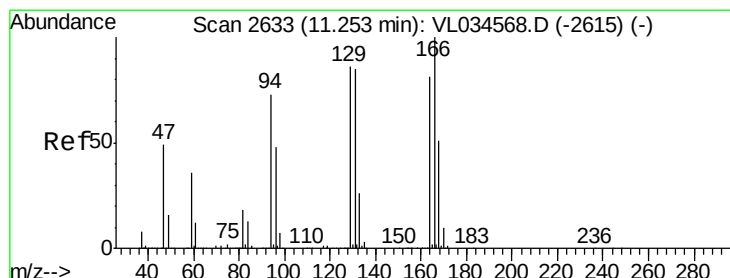
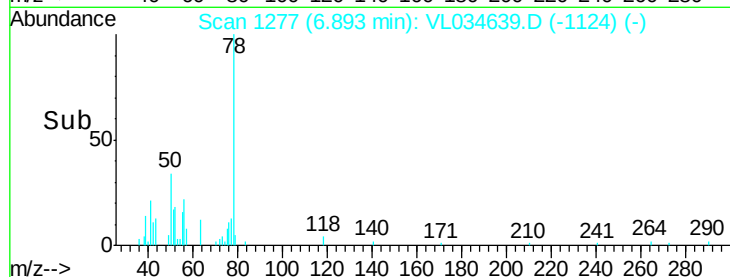
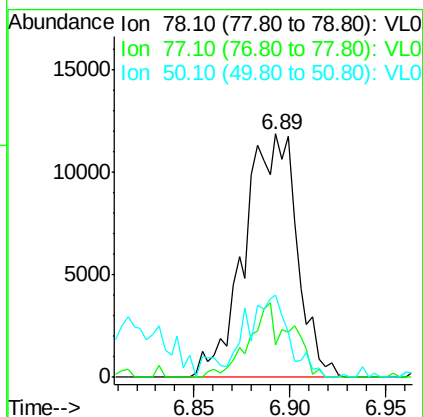
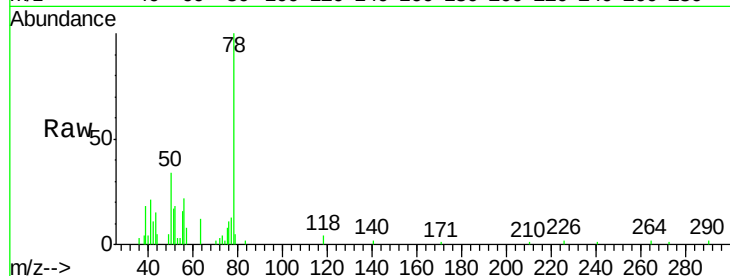
ClientSampleId :

SS-1

Tot Ion:	78	Resp:	22696
Ion	Ratio	Lower	Upper
78	100		
77	13.4	17.3	25.9#
50	33.7	17.4	26.2#

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#52

Tetrachloroethene

Concen: 0.390 ppbv m

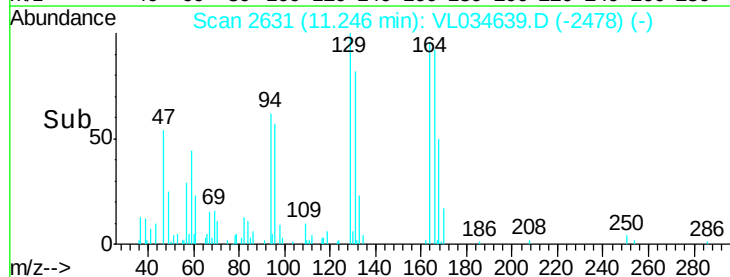
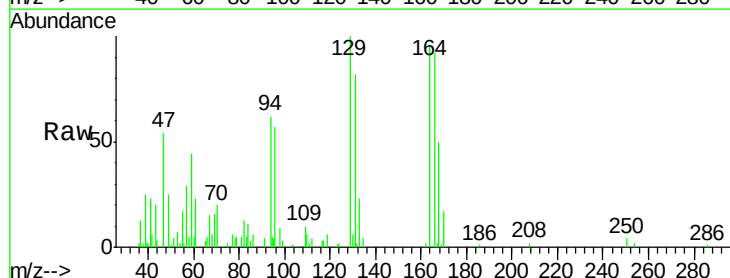
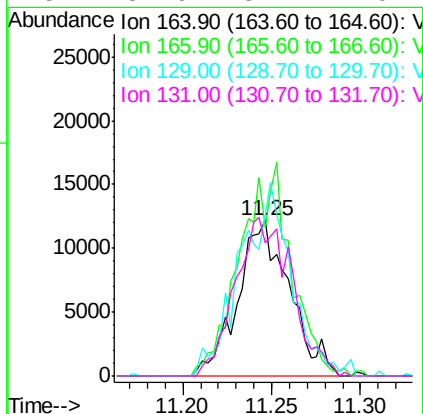
RT: 11.25 min Scan# 2631

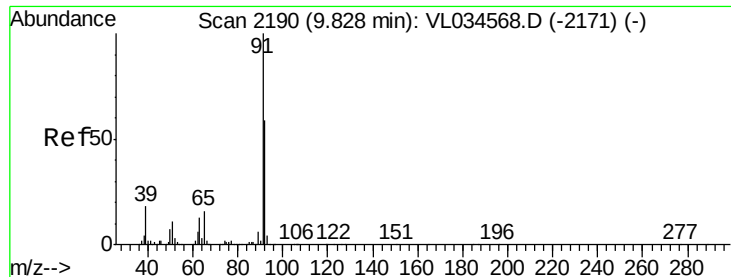
Delta R.T. -0.01 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Tgt Ion:	164	Resp:	24765
Ion	Ratio	Lower	Upper
164	100		
166	95.1	99.0	148.4#
129	103.7	85.3	127.9
131	84.9	84.2	126.2





#53

Toluene

Concen: 6.200 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 91 Resp: 1076585

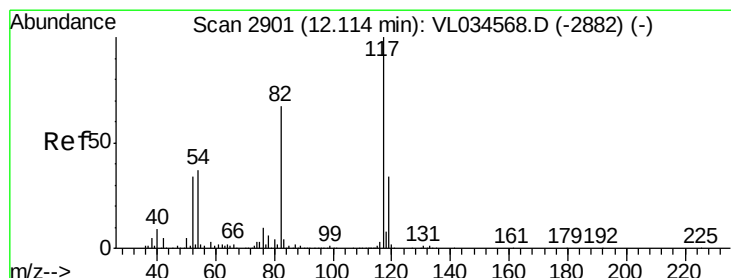
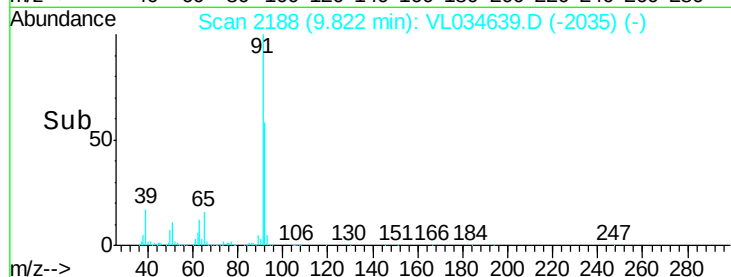
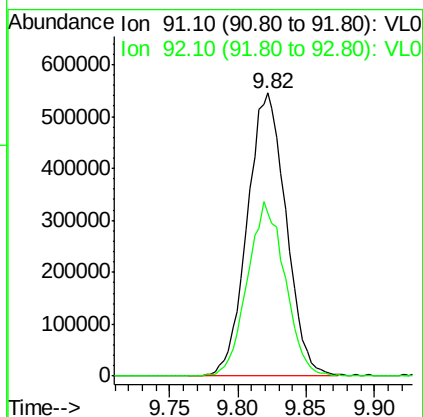
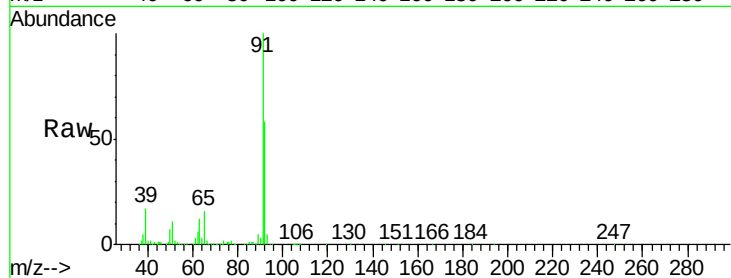
Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL034639.D

Acq: 19 Feb 2020 00:58

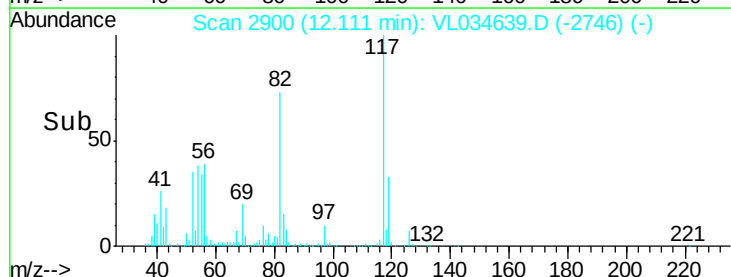
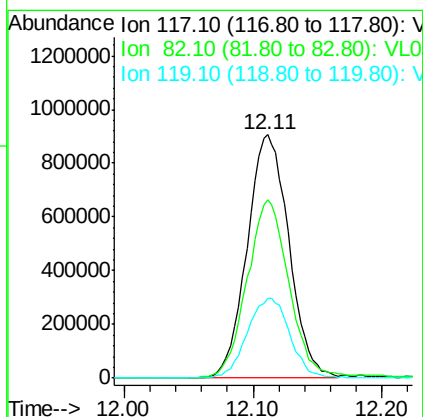
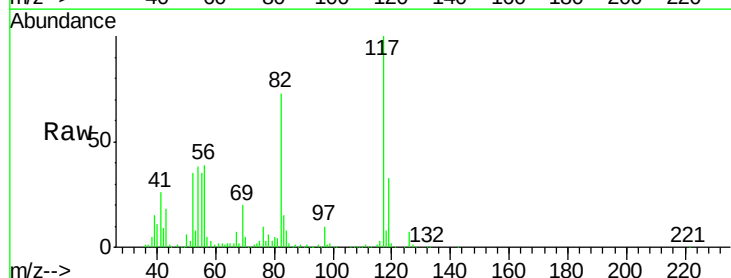
Tgt Ion: 117 Resp: 2044094

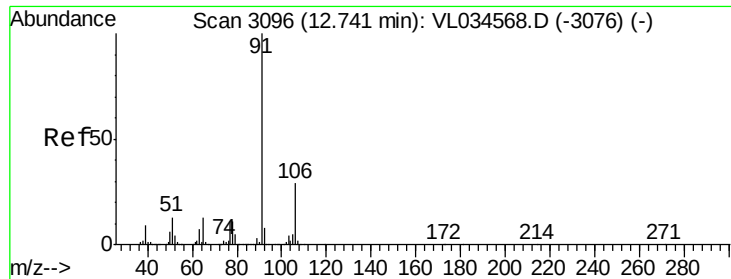
Ion Ratio Lower Upper

117 100

82 75.3 54.2 81.4

119 33.7 26.1 39.1





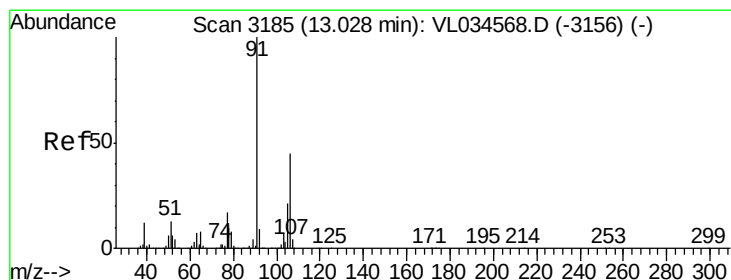
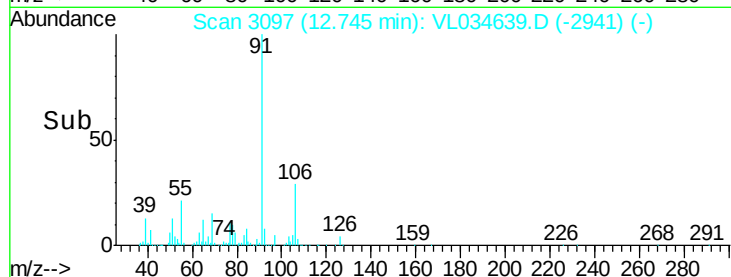
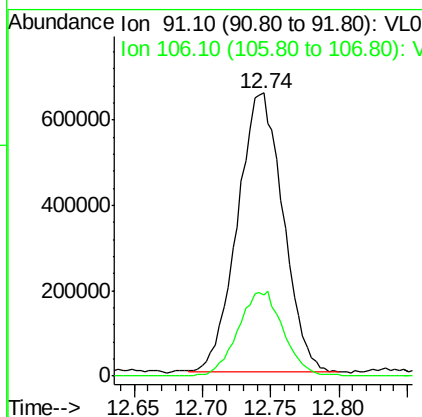
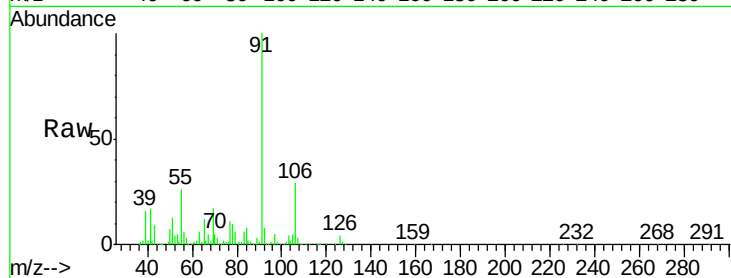
#58
Ethyl Benzene
Concen: 5.565 ppbv
RT: 12.74 min Scan# 3097
Delta R.T. 0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp: 1522296
Ion Ratio Lower Upper
91 100
106 29.1 23.3 34.9

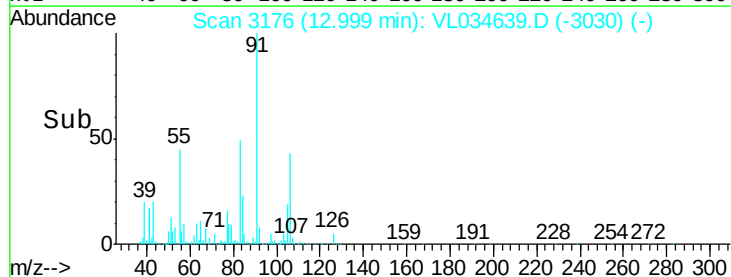
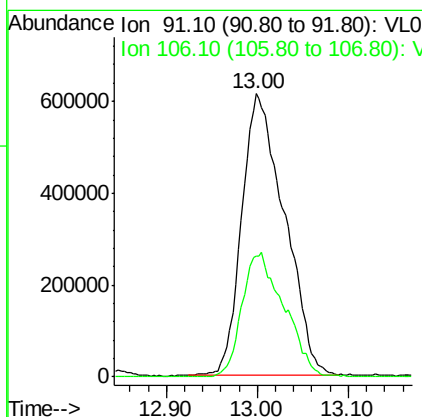
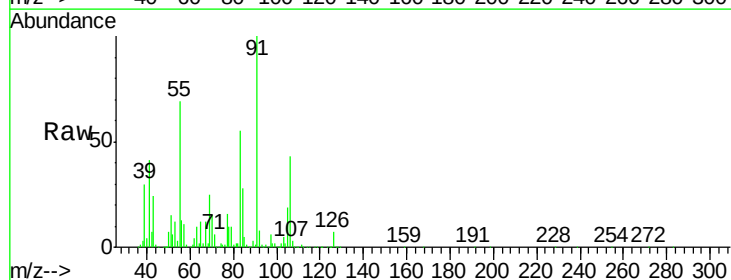
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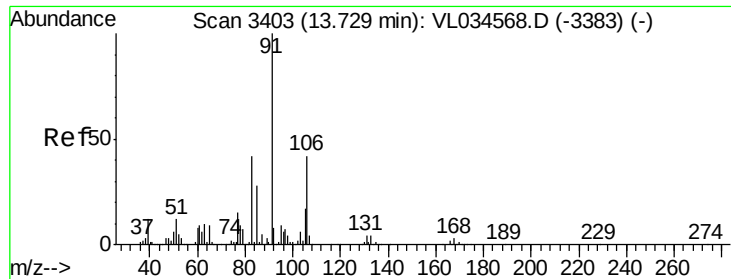
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#59
m/p-Xylene
Concen: 8.266 ppbv
RT: 13.00 min Scan# 3176
Delta R.T. -0.03 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion: 91 Resp: 1998775
Ion Ratio Lower Upper
91 100
106 43.7 35.3 52.9





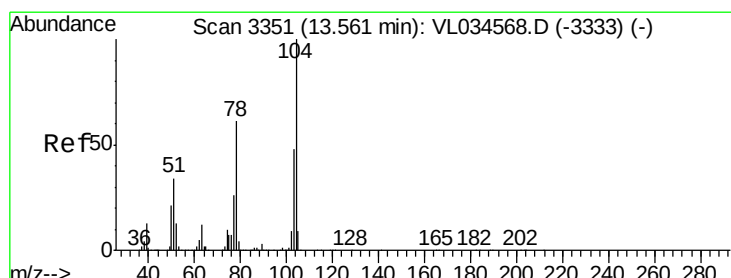
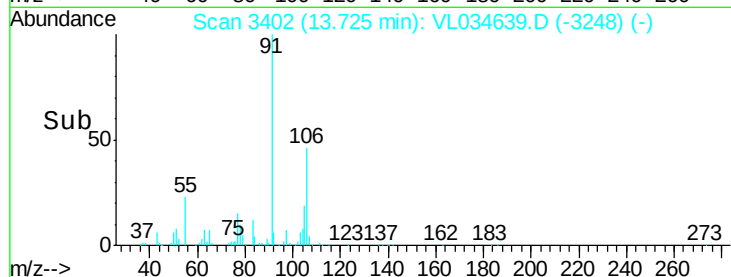
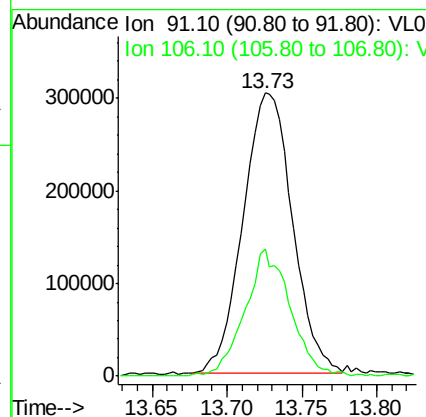
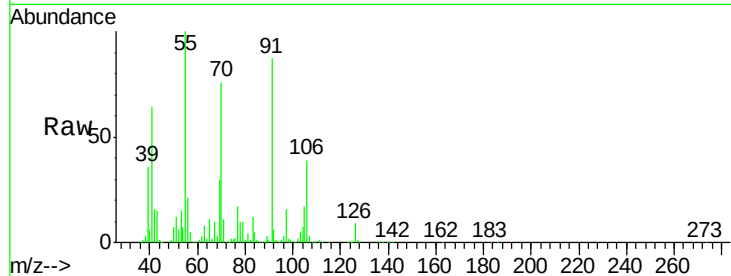
#60
o-Xylene
Concen: 2.875 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp: 698233
Ion Ratio Lower Upper
91 100
106 41.6 21.6 65.0

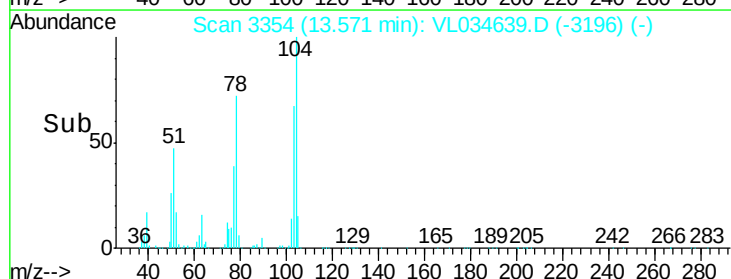
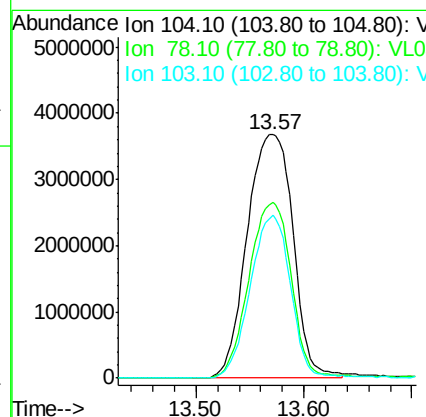
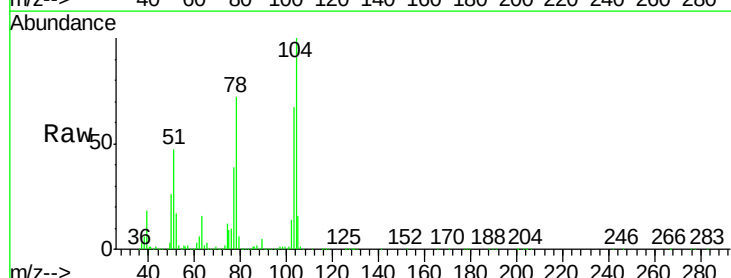
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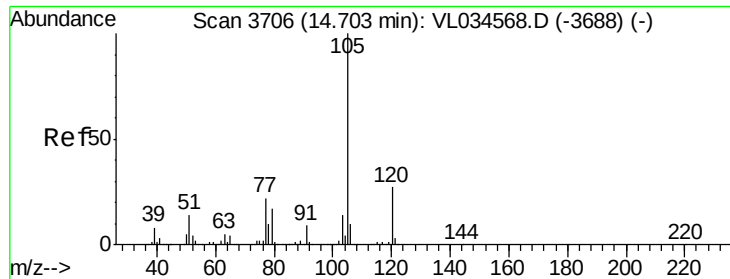
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#61
Styrene
Concen: 67.132 ppbv
RT: 13.57 min Scan# 3354
Delta R.T. 0.01 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion:104 Resp:10869589
Ion Ratio Lower Upper
104 100
78 67.2 47.0 70.6
103 59.2 38.5 57.7#





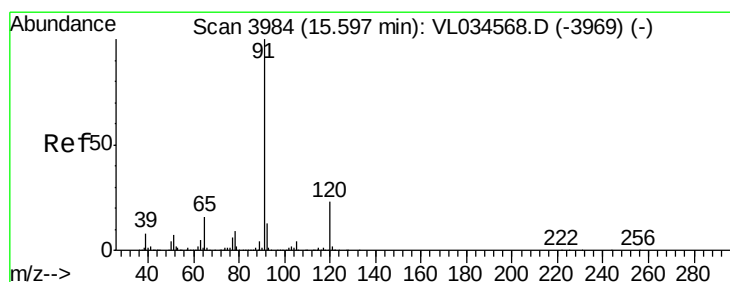
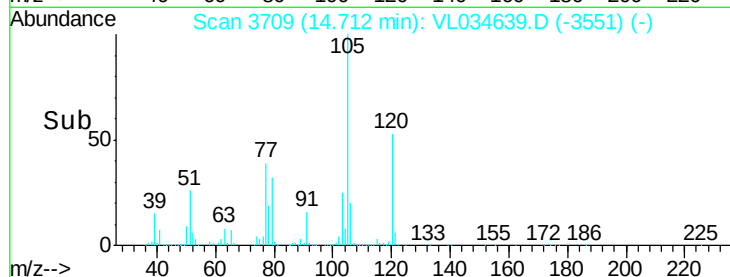
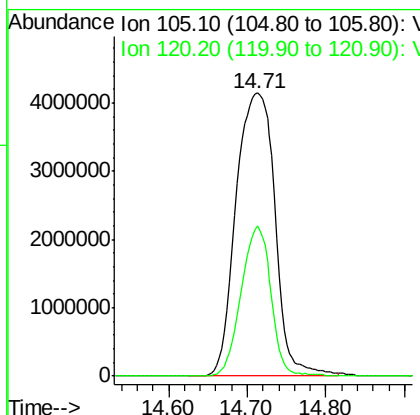
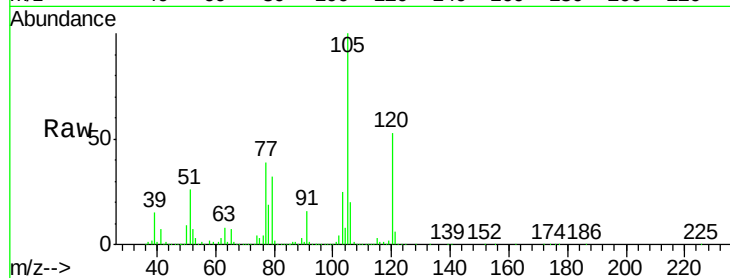
#62
Isopropylbenzene
Concen: 45.908 ppbv
RT: 14.71 min Scan# 3709
Delta R.T. 0.01 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion:105 Resp:14446152
Ion Ratio Lower Upper
105 100
120 40.8 20.7 31.1#

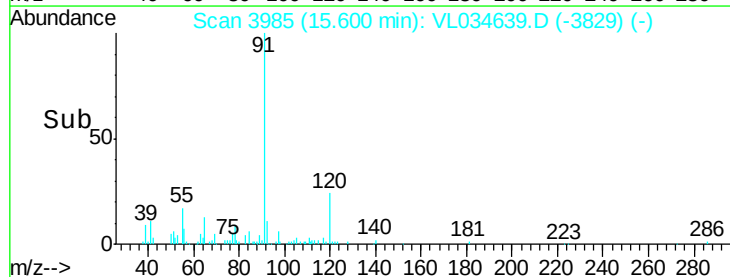
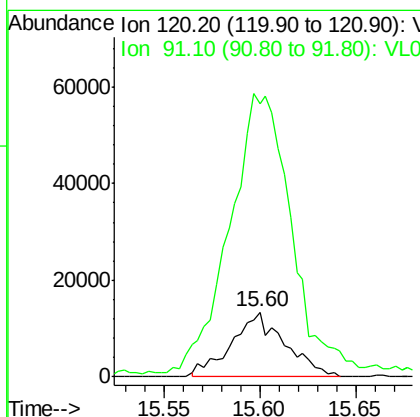
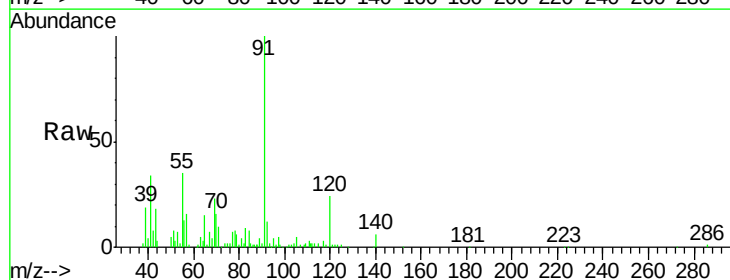
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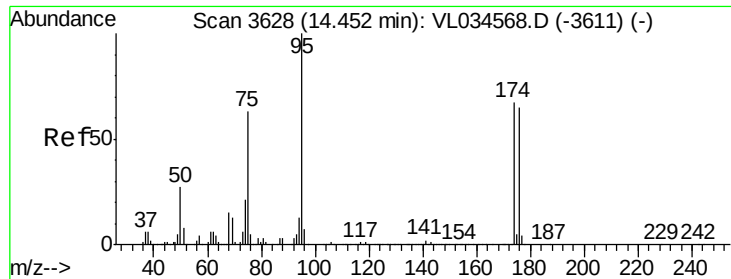
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#64
n-propylbenzene
Concen: 0.319 ppbv m
RT: 15.60 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VL034639.D
Acq: 19 Feb 2020 00:58

Tgt Ion:120 Resp: 25841
Ion Ratio Lower Upper
120 100
91 504.3 365.3 547.9





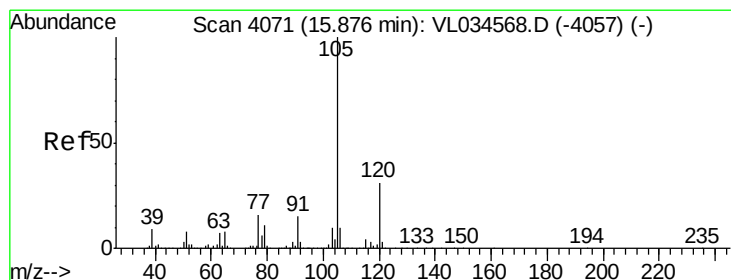
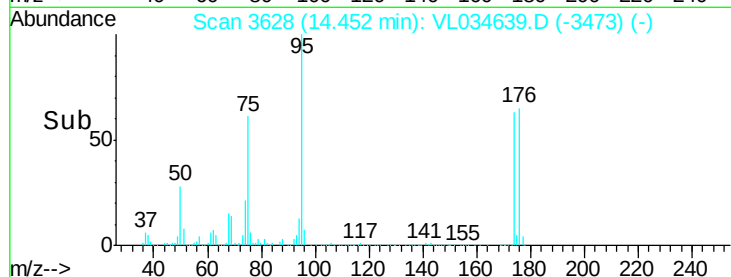
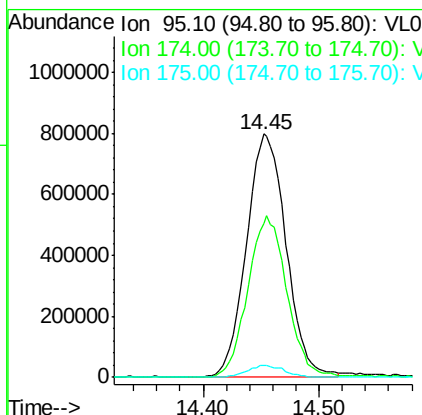
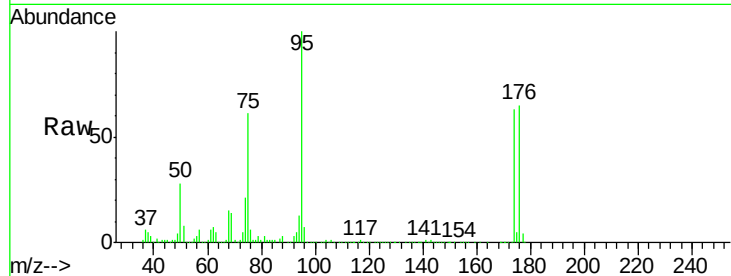
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.986 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. -0.00 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion: 95 Resp: 1897890
 Ion Ratio Lower Upper
 95 100
 174 66.4 52.3 78.5
 175 4.6 3.8 5.6

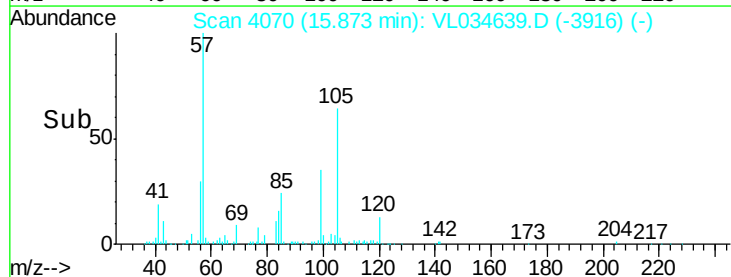
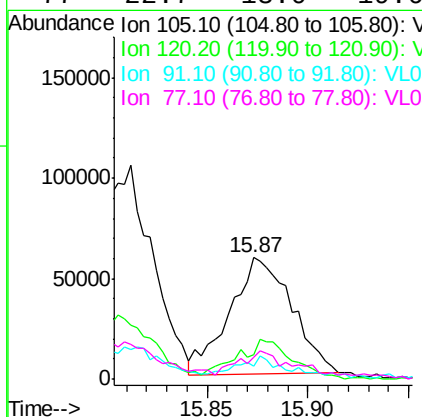
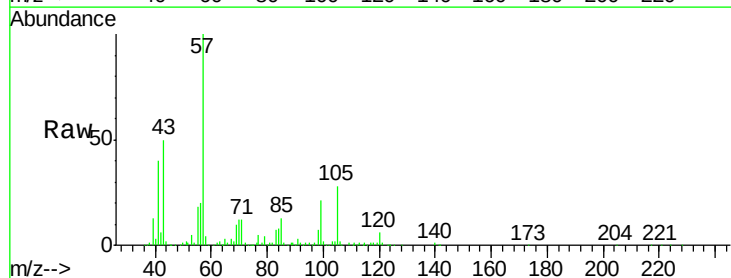
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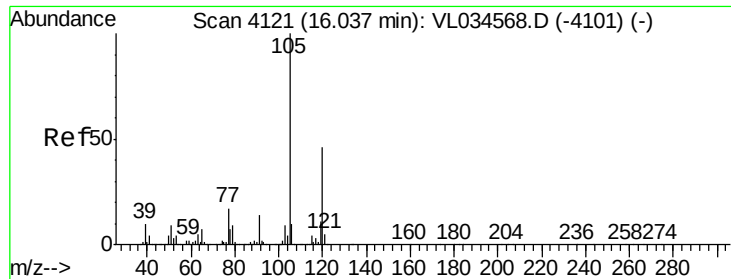
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#72
 4-Ethyltoluene
 Concen: 0.470 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Tgt Ion: 105 Resp: 125467
 Ion Ratio Lower Upper
 105 100
 120 30.6 23.8 35.6
 91 15.7 11.8 17.8
 77 22.7 13.0 19.6#





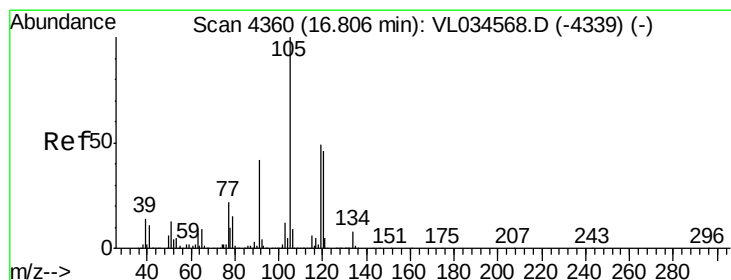
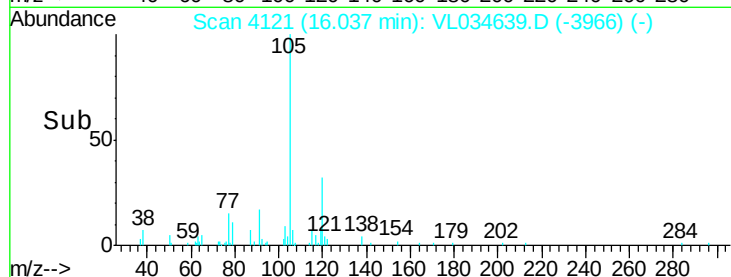
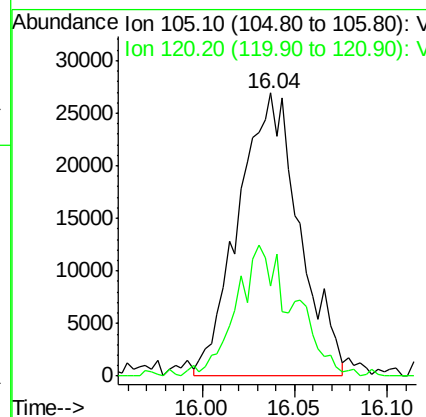
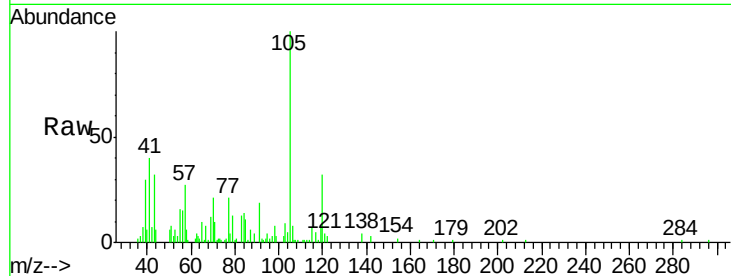
#73
 1,3,5-Trimethylbenzene
 Concen: 0.238 ppbv m
 RT: 16.04 min Scan# 4121
 Delta R.T. -0.00 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion:105 Resp: 61928
 Ion Ratio Lower Upper
 105 100
 120 31.7 37.0 55.6#

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.941 ppbv m
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.00 min
 Lab File: VL034639.D
 Acq: 19 Feb 2020 00:58

Tgt Ion:105 Resp: 271612
 Ion Ratio Lower Upper
 105 100
 120 44.6 37.1 55.7
 91 13.9 34.3 51.5#
 77 14.8 17.5 26.3#

