

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034806.D
 Acq On : 5 Mar 2020 21:47
 Operator : SY/AP
 Sample : L1698-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3-4

Manual Integrations
 APPROVED

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 3/9/2020 9:19:20 AM

Quant Time: Mar 06 12:31:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	308984m	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.26	114	82968	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.33	117	12943m	10.00	ppbv	0.19

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	429441m	397.91	ppbv	0.14
Spiked Amount	10.000	Range	65 - 135	Recovery	= 3979.10%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.19	62	18777460	937.446	ppbv #	7
9) Propene	2.96	41	9042632m	652.615	ppbv	
11) Trichlorofluoromethane	3.93	101	778322	17.250	ppbv	96
13) Ethanol	3.59	45	735246	154.871	ppbv	100
15) Acetone	3.83	43	7967858	215.344	ppbv #	1
17) tert-Butyl alcohol	4.38	59	14417123m	494.150	ppbv	
18) 1,1-Dichloroethene	4.29	96	452410	32.950	ppbv #	77
20) Methylene Chloride	4.35	84	6932430	524.959	ppbv #	74
22) trans-1,2-Dichloroethene	4.91	96	9148035	682.523	ppbv #	69
24) 1,1-Dichloroethane	5.04	63	3310129	85.955	ppbv #	93
26) Hexane	5.78	57	10245578m	366.795	ppbv	
27) Carbon Disulfide	4.56	76	14785231	453.095	ppbv #	61
30) Cyclohexane	7.22	84	4017179m	187.985	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	33332703m	1163.458	ppbv	
34) 2-Butanone	5.37	43	3277543	607.212	ppbv #	1
36) Benzene	7.00	78	27141880m	3828.366	ppbv	
38) Trichloroethene	7.92	130	1132789	409.956	ppbv	94
52) Tetrachloroethene	11.49	164	750677m	286.594	ppbv	
53) Toluene	10.38	91	36672261m	4887.343	ppbv	
58) Ethyl Benzene	13.15	91	65801145m	41253.827	ppbv	
59) m/p-Xylene	13.43	91	69859810m	50596.619	ppbv	
60) o-Xylene	14.01	91	26938932	19283.662	ppbv #	56

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

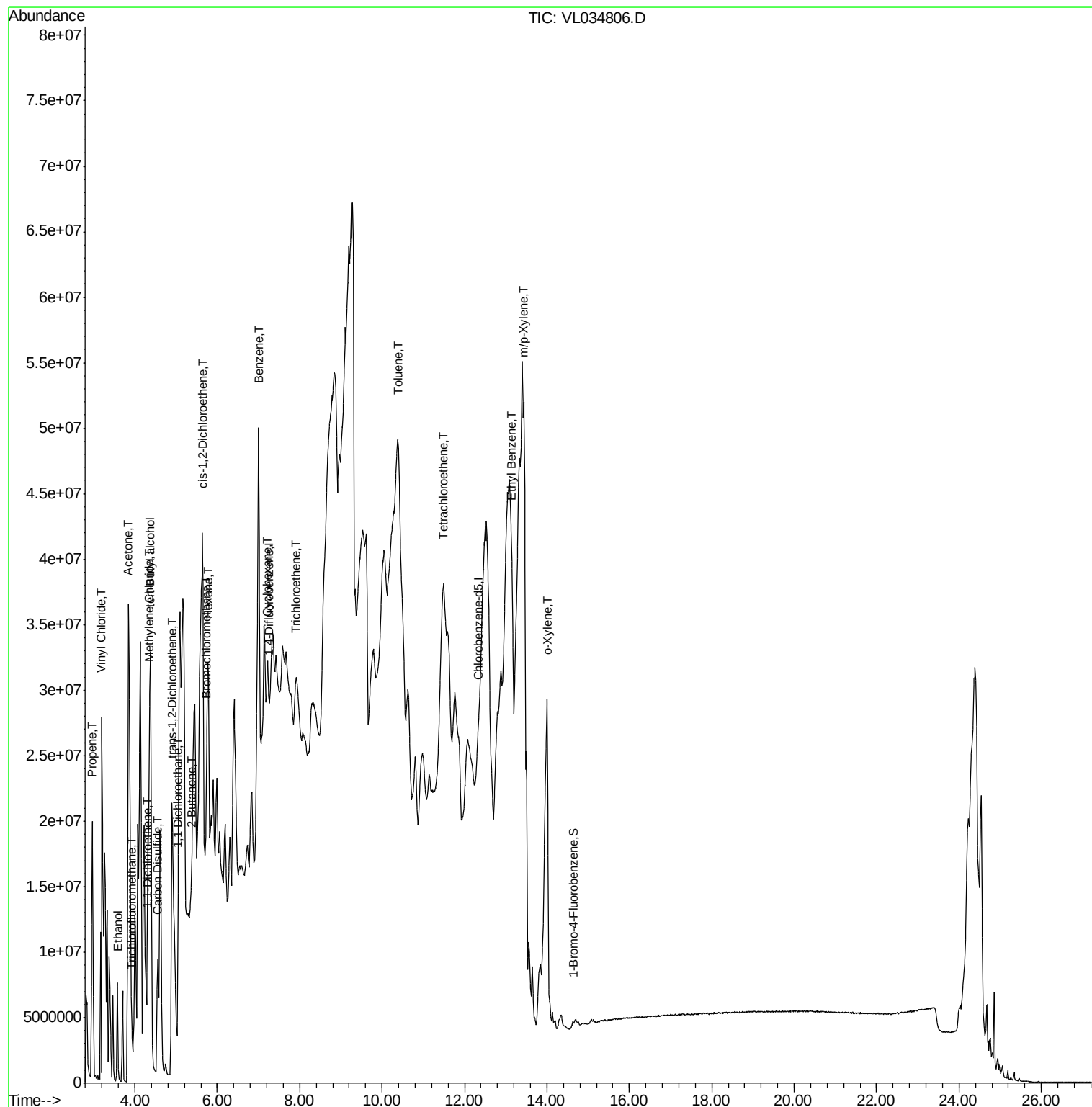
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030520\
Data File : VL034806.D
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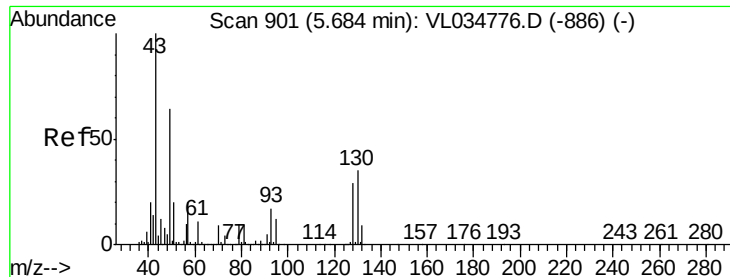
Instrument :
MSVOA_L
ClientSampleId :
SS-3-4

Manual Integrations
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3/9/2020 9:19:20 AM

Quant Time: Mar 06 12:31:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 916

Delta R.T. 0.05 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Instrument :

MSVOA_L

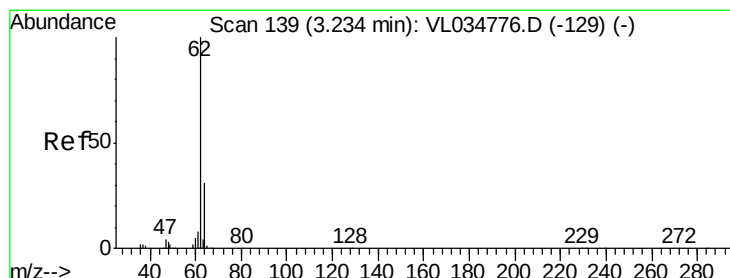
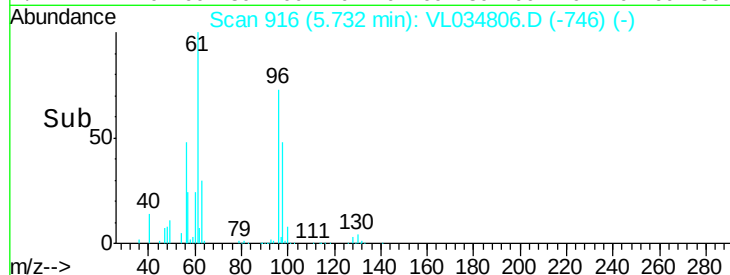
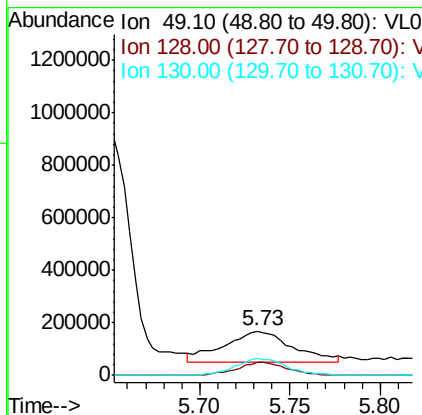
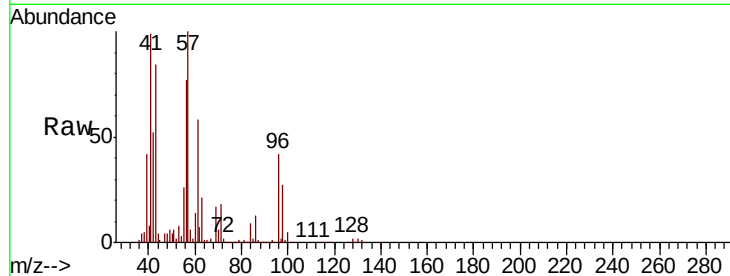
ClientSampled :

SS-3-4

Tot Ion	Ratio	Lower	Upper
49	100		
128	0.0	21.6	64.6#
130	0.0	27.4	82.2#

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#5

Vinyl Chloride

Concen: 937.446 ppbv

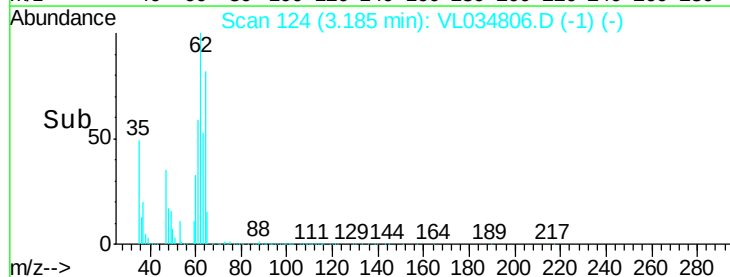
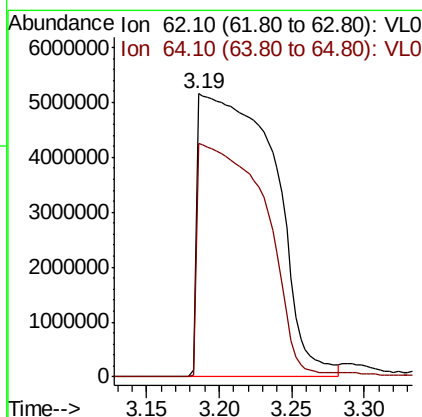
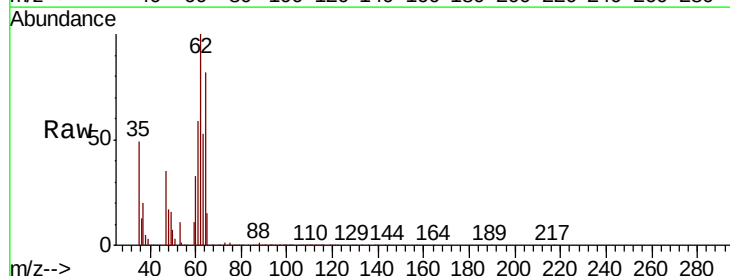
RT: 3.19 min Scan# 124

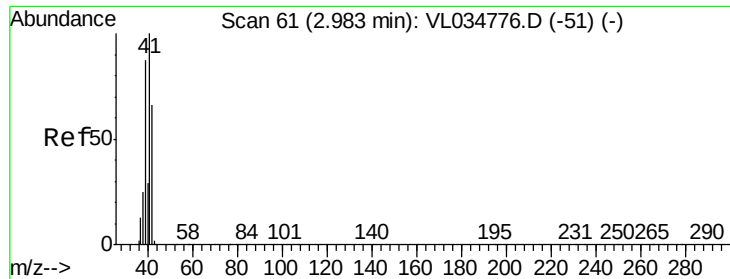
Delta R.T. -0.05 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Tgt Ion	Ratio	Lower	Upper
62	100		
64	82.6	25.1	37.7#





#9

Propene

Concen: 652.615 ppbv m

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Instrument :

MSVOA_L

ClientSampleId :

SS-3-4

Tot Ion: 41 Resp: 9042632

Ion Ratio Lower Upper

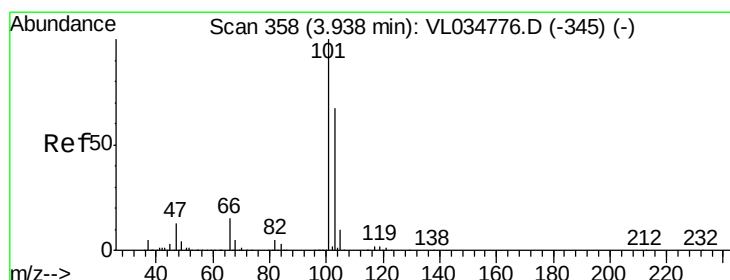
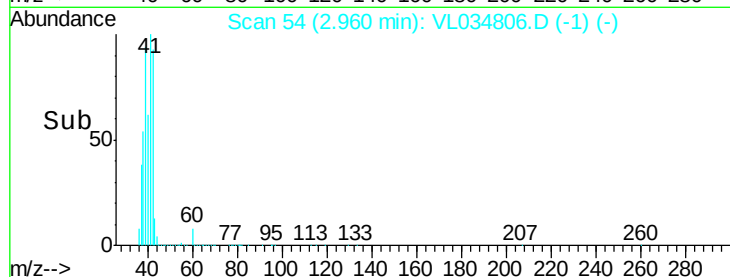
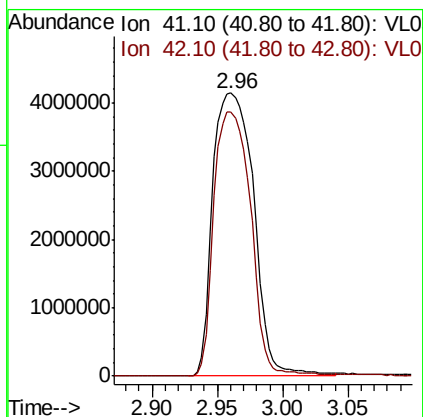
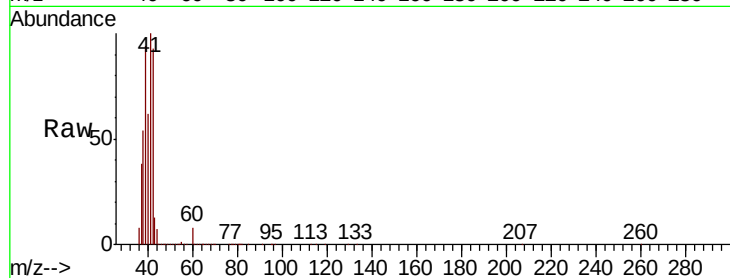
41 100

42 20.5 55.6 83.4#

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#11

Trichlorofluoromethane

Concen: 17.250 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.01 min

Lab File: VL034806.D

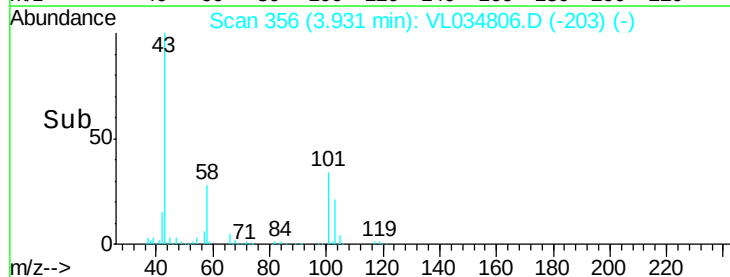
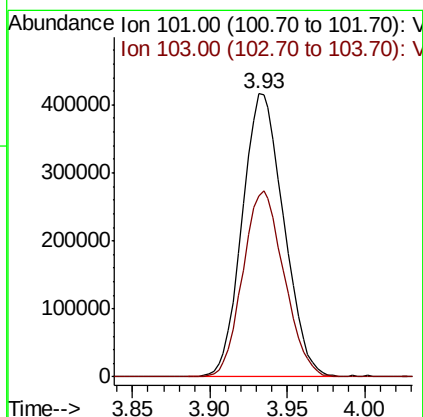
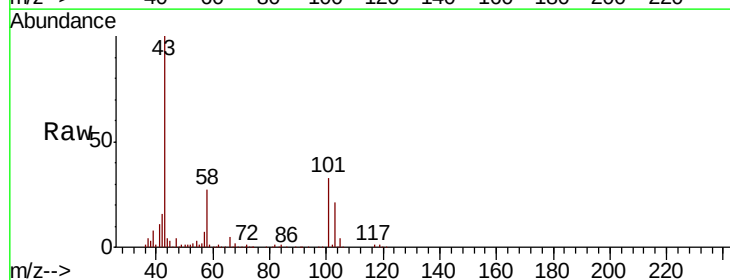
Acq: 5 Mar 2020 21:47

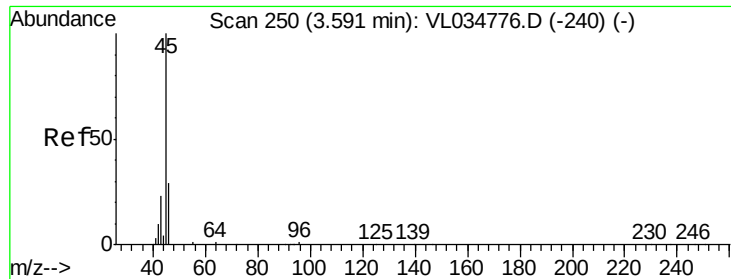
Tgt Ion: 101 Resp: 778322

Ion Ratio Lower Upper

101 100

103 63.7 53.6 80.4





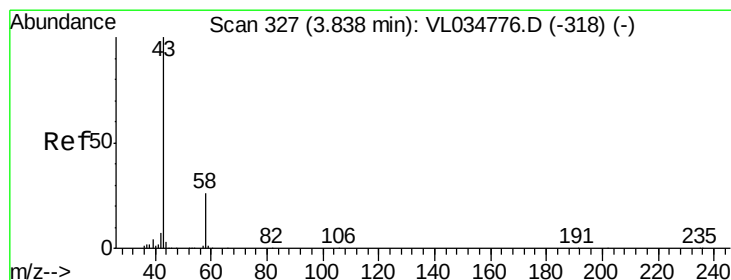
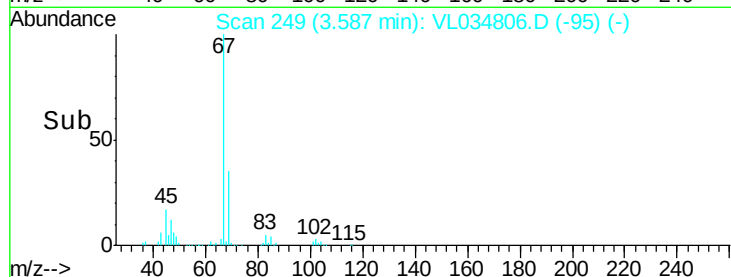
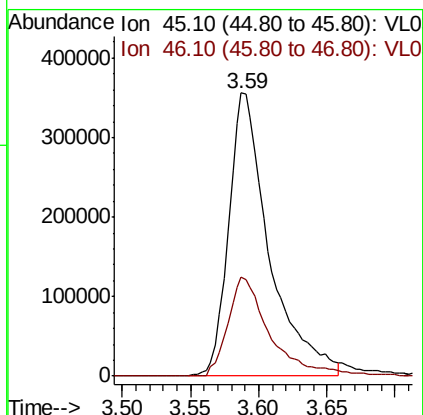
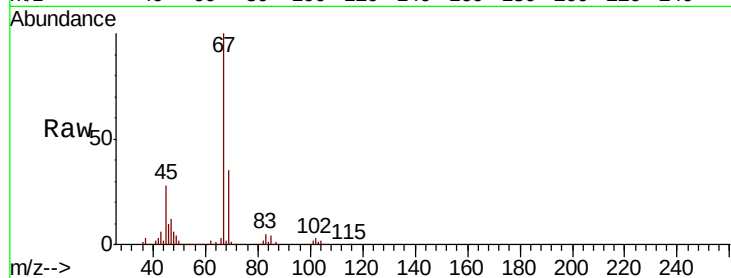
#13
Ethanol
Concen: 154.871 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.00 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampleId :
SS-3-4

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.7			14.7	58.9

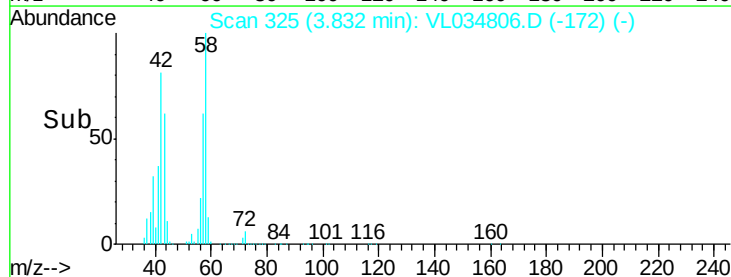
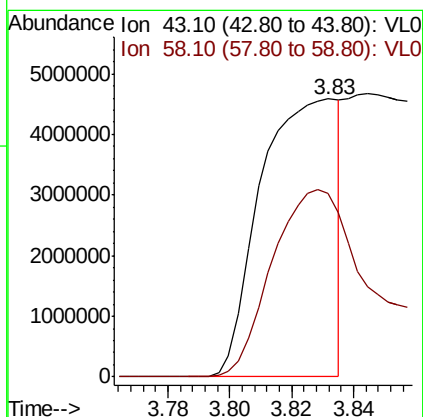
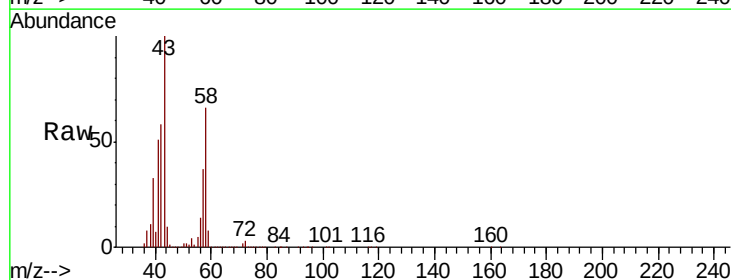
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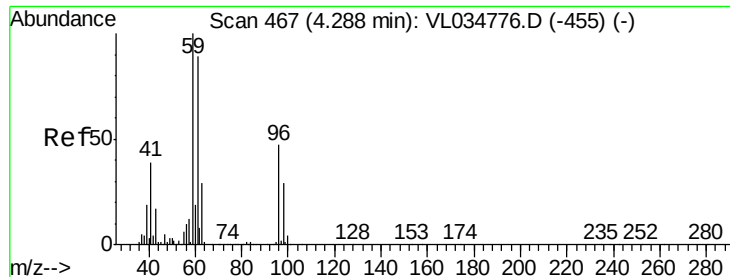
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#15
Acetone
Concen: 215.344 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	99.6			21.0	31.6#





#17

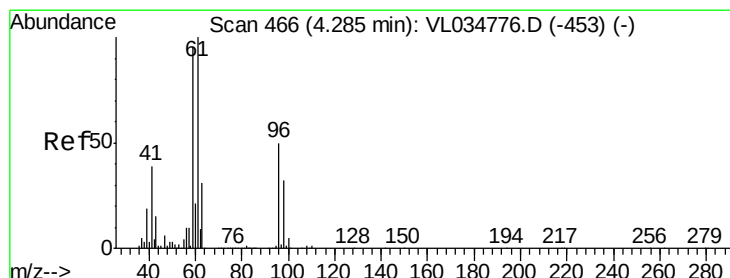
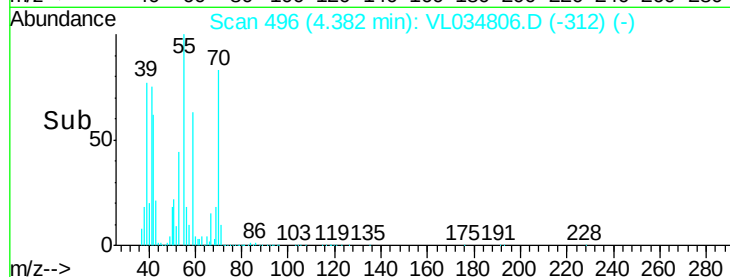
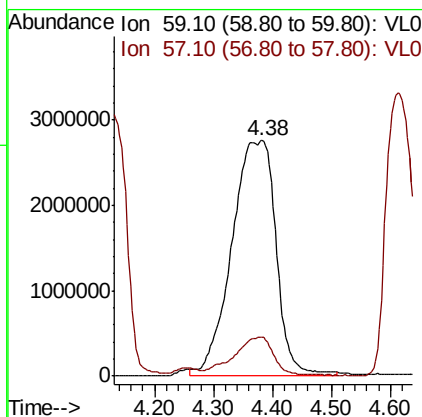
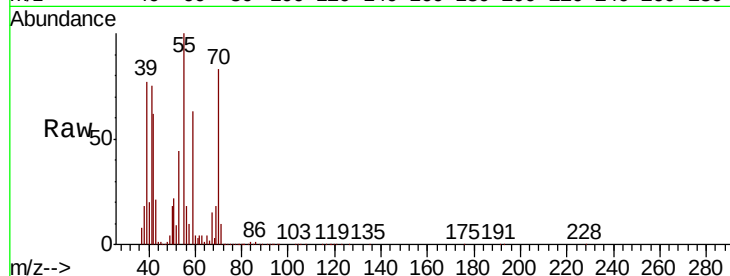
tert-Butyl alcohol
Concen: 494.150 ppbv m
RT: 4.38 min Scan# 496
Delta R.T. 0.09 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampled :
SS-3-4

Tot Ion: 59 Resp:14417123
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

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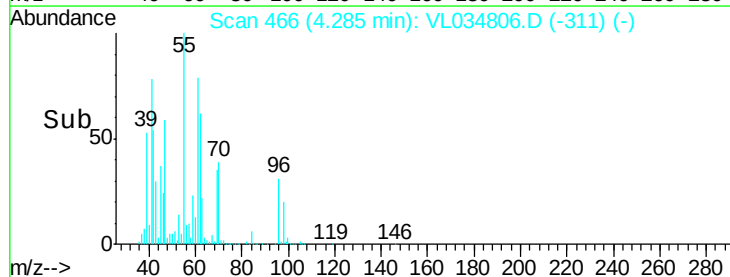
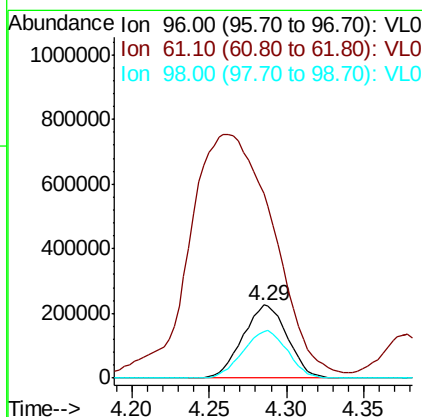
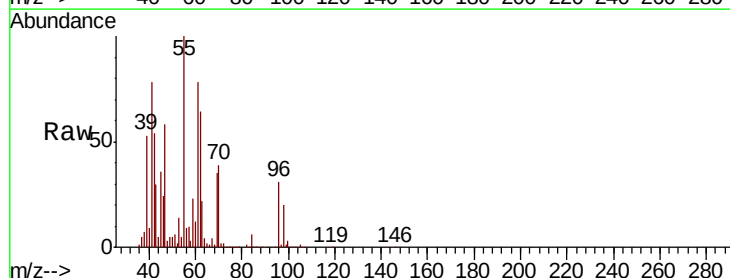
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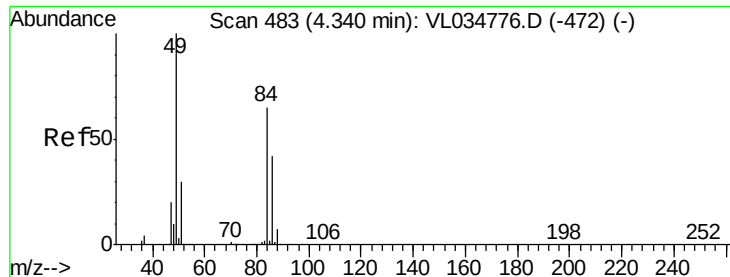


#18

1,1-Dichloroethene
Concen: 32.950 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion: 96 Resp: 452410
Ion Ratio Lower Upper
96 100
61 245.4 159.5 239.3#
98 64.6 51.1 76.7





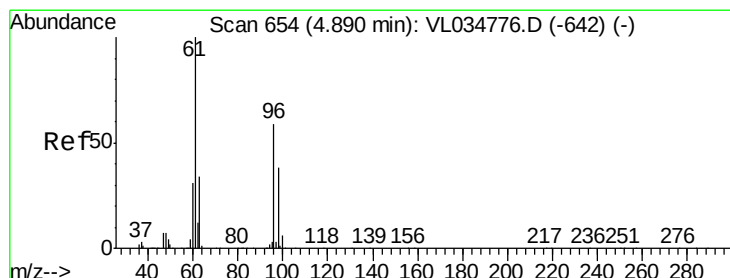
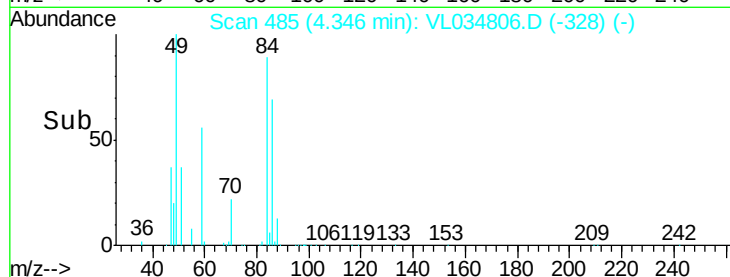
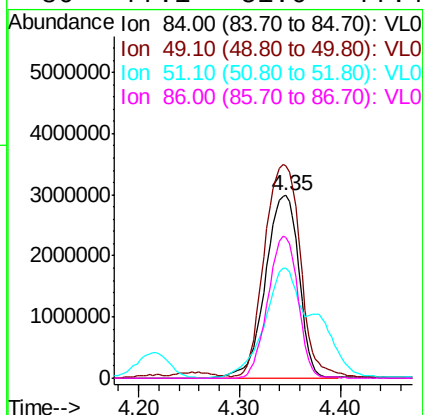
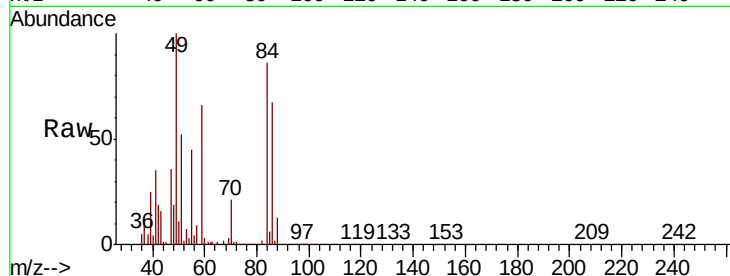
#20
Methvlene Chloride
Concen: 524.959 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampled :
SS-3-4

Tot Ion: 84 Resp: 6932430
Ion Ratio Lower Upper
84 100
49 113.0 123.2 184.8#
51 59.6 37.4 56.2#
86 77.1 51.6 77.4

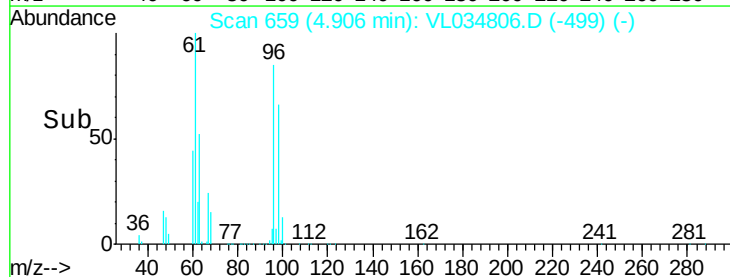
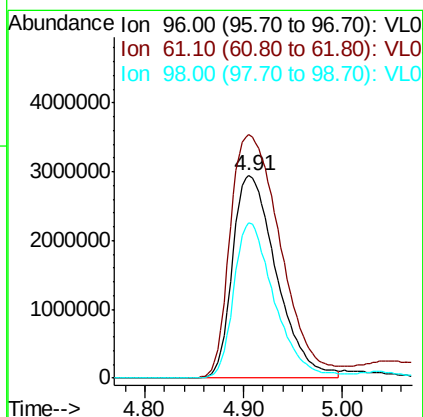
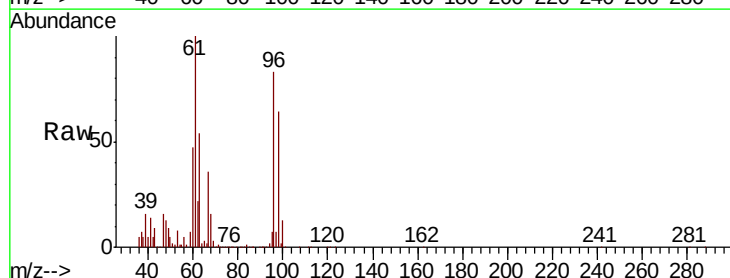
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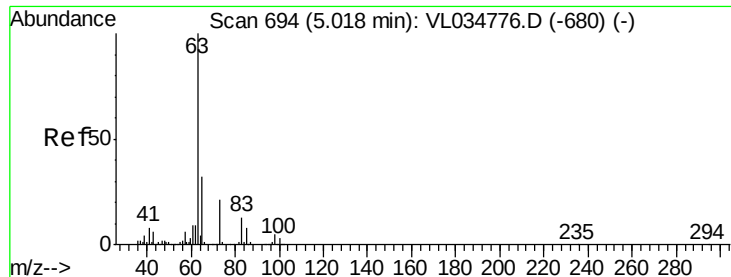
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#22
trans-1,2-Dichloroethene
Concen: 682.523 ppbv
RT: 4.91 min Scan# 659
Delta R.T. 0.02 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion: 96 Resp: 9148035
Ion Ratio Lower Upper
96 100
61 120.2 135.2 202.8#
98 77.0 50.8 76.2#





#24

1,1-Dichloroethane

Concen: 85.955 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Instrument :

MSVOA_L

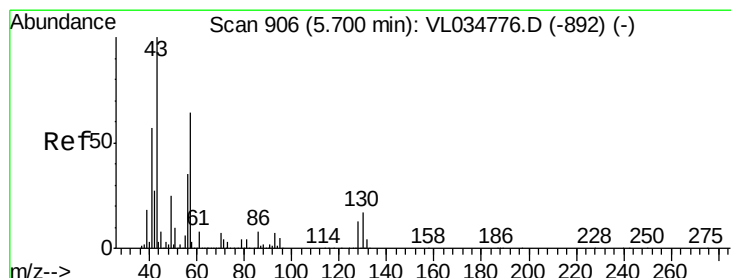
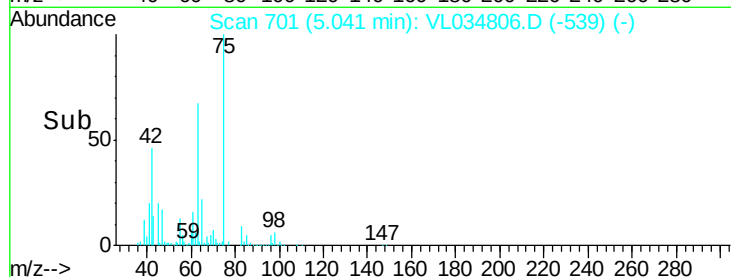
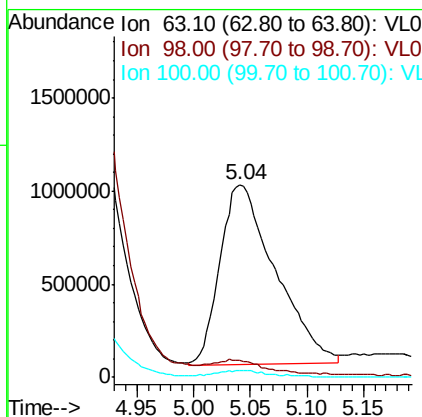
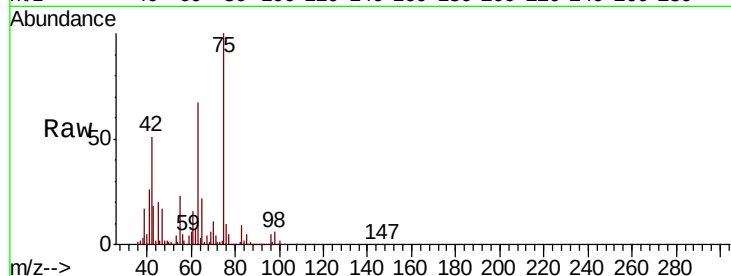
ClientSampleId :

SS-3-4

Tot Ion:	63	Resp:	3310129
Ion	Ratio	Lower	Upper
63	100		
98	7.5	2.3	6.8#
100	3.7	1.5	4.4

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#26

Hexane

Concen: 366.795 ppbv m

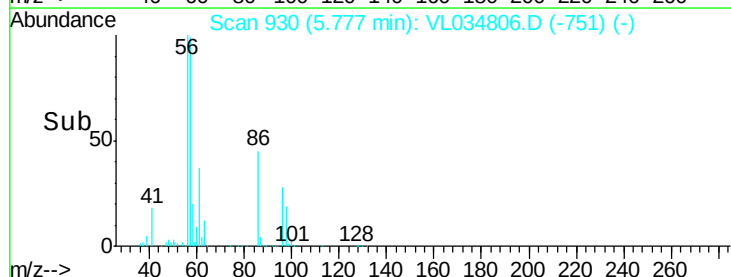
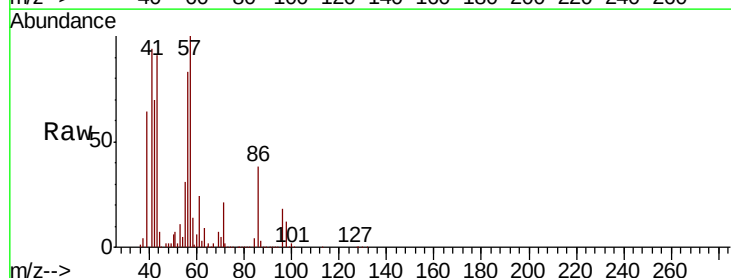
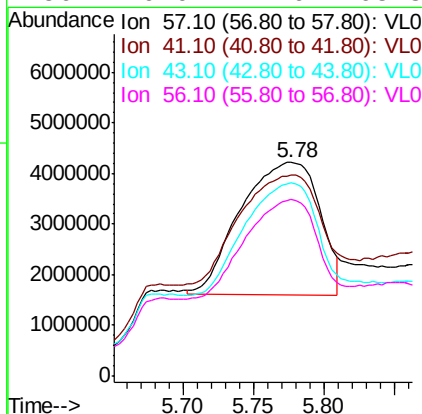
RT: 5.78 min Scan# 930

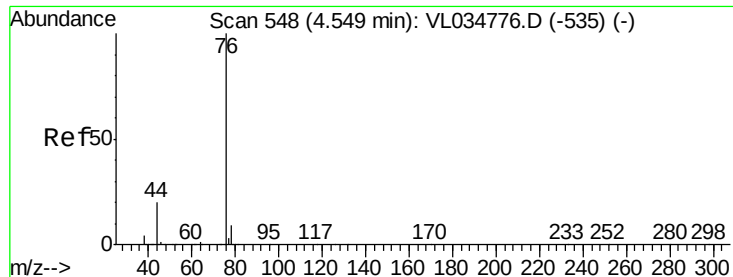
Delta R.T. 0.08 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Tgt Ion:	57	Resp:	10245578
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.0	108.0#
43	0.0	179.1	268.7#
56	0.0	42.6	63.8#





#27

Carbon Disulfide

Concen: 453.095 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.01 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Instrument :

MSVOA_L

ClientSampled :

SS-3-4

Tot Ion: 76 Resp:14785231

Ion Ratio Lower Upper

76 100

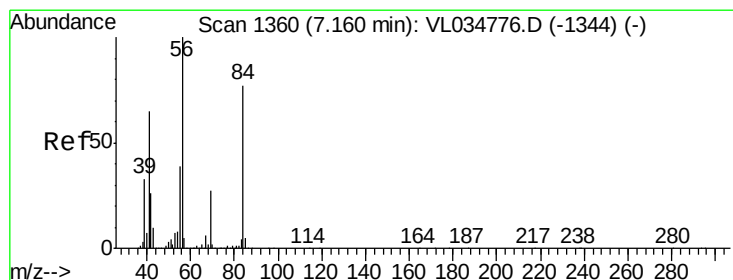
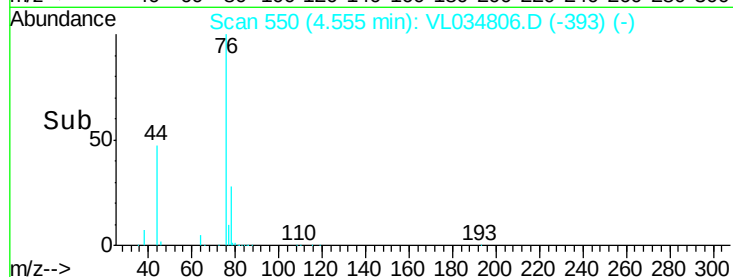
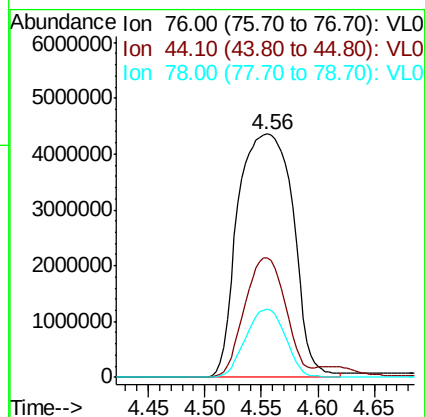
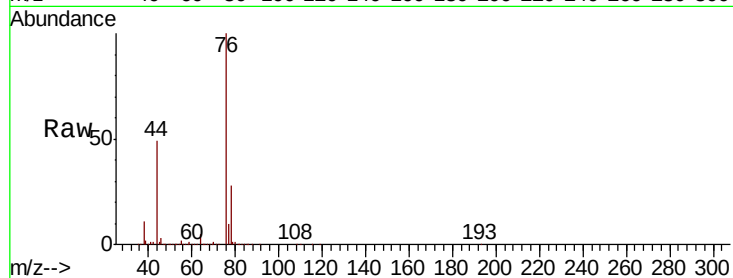
44 40.0 16.1 24.1#

78 20.3 7.5 11.3#

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#30

Cyclohexane

Concen: 187.985 ppbv m

RT: 7.22 min Scan# 1379

Delta R.T. 0.06 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

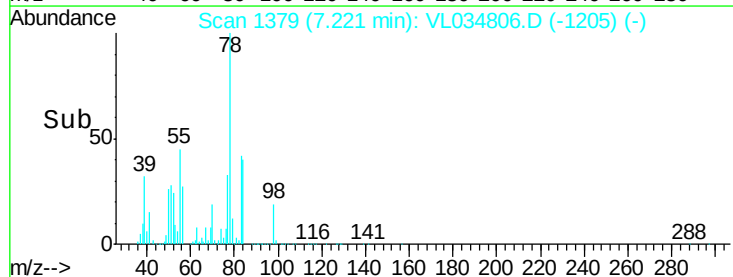
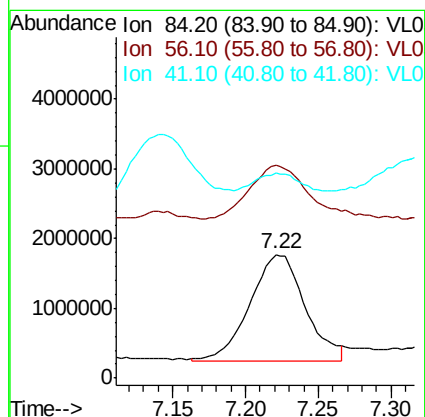
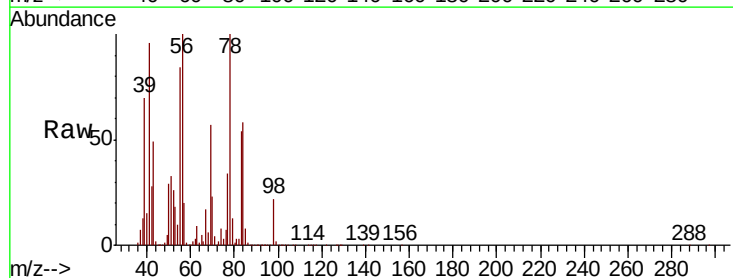
Tgt Ion: 84 Resp: 4017179

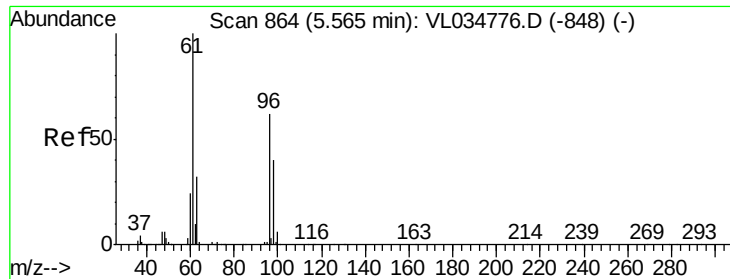
Ion Ratio Lower Upper

84 100

56 82.1 113.2 169.8#

41 89.8 70.2 105.4





#31

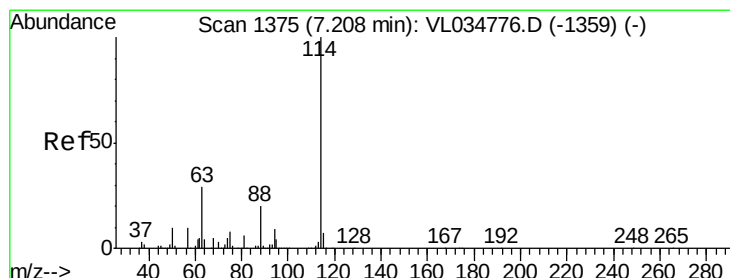
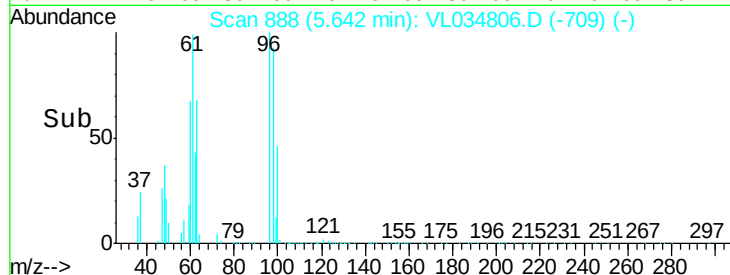
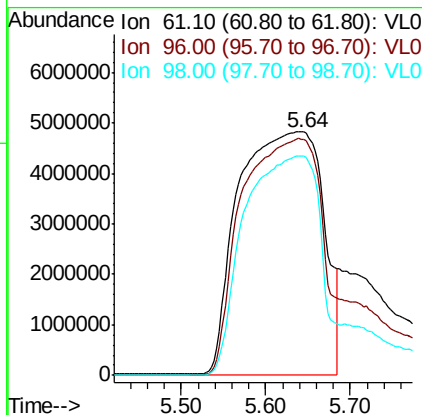
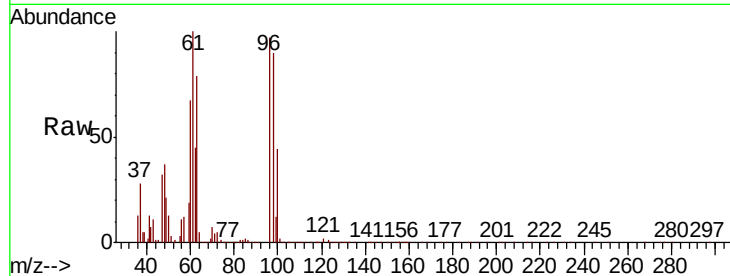
cis-1,2-Dichloroethene
 Concen: 1163.458 ppbv m
 RT: 5.64 min Scan# 888
 Delta R.T. 0.08 min
 Lab File: VL034806.D
 Acq: 5 Mar 2020 21:47

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3-4

Tot Ion: 61 Resp: 33332703
 Ion Ratio Lower Upper
 61 100
 96 97.0 49.7 74.5#
 98 90.3 31.9 47.9#

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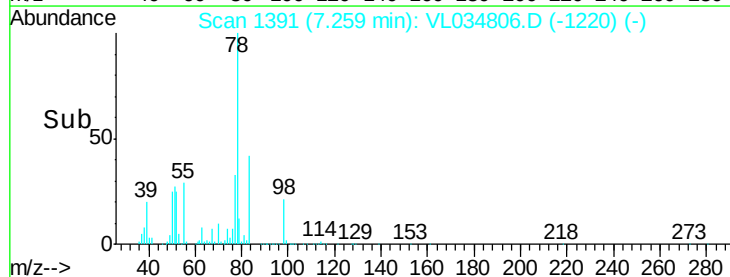
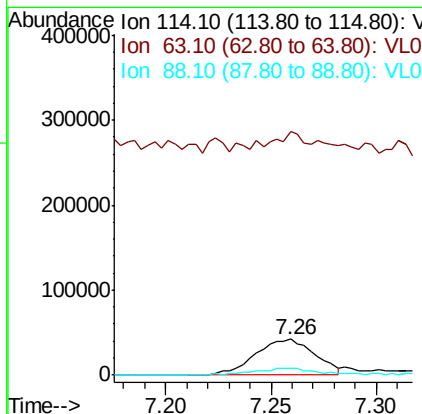
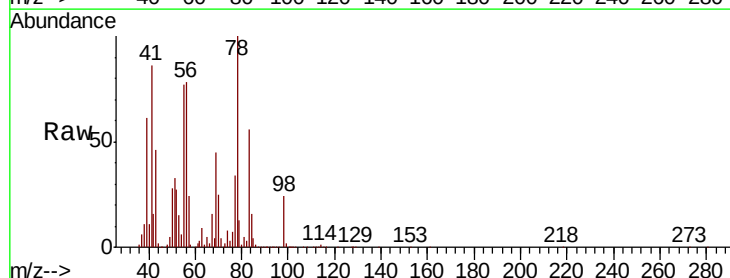
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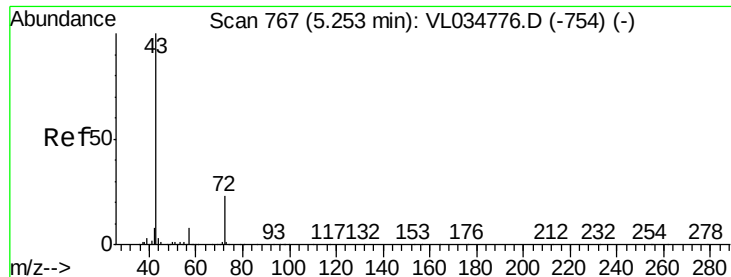


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1391
 Delta R.T. 0.05 min
 Lab File: VL034806.D
 Acq: 5 Mar 2020 21:47

Tgt Ion: 114 Resp: 82968
 Ion Ratio Lower Upper
 114 100
 63 0.0 23.6 35.4#
 88 22.7 15.8 23.8





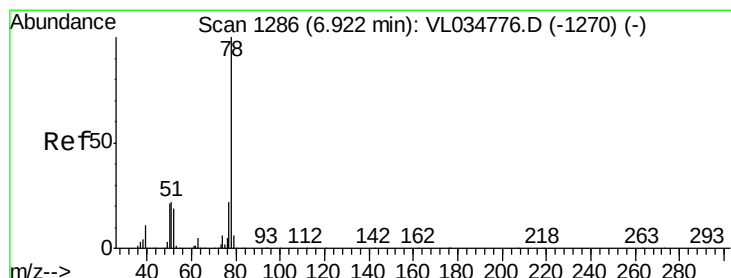
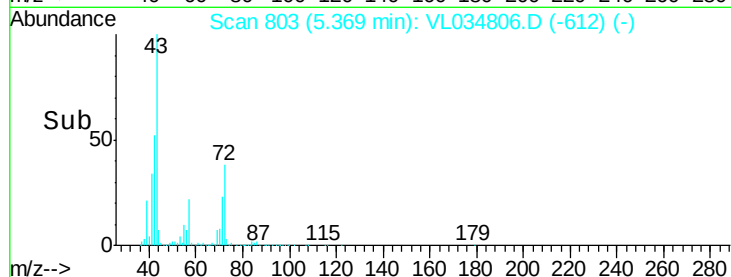
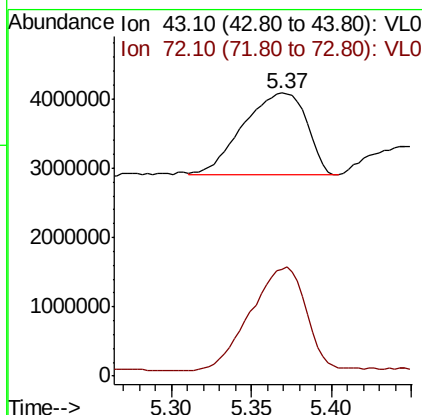
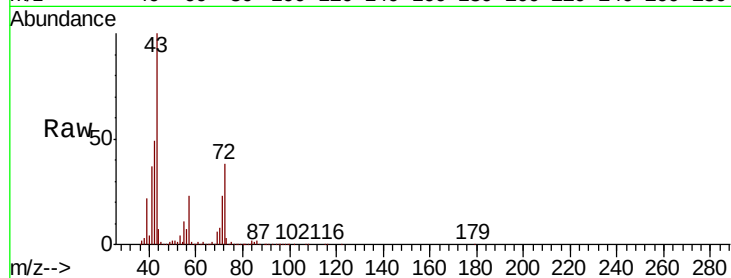
#34
2-Butanone
Concen: 607.212 ppbv
RT: 5.37 min Scan# 803
Delta R.T. 0.12 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampleId :
SS-3-4

Tot Ion: 43 Resp: 3277543
Ion Ratio Lower Upper
43 100
72 135.4 17.5 26.3#

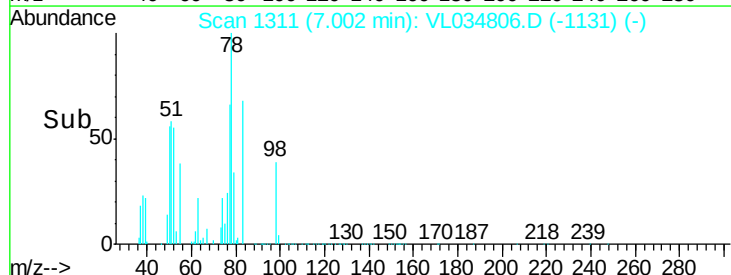
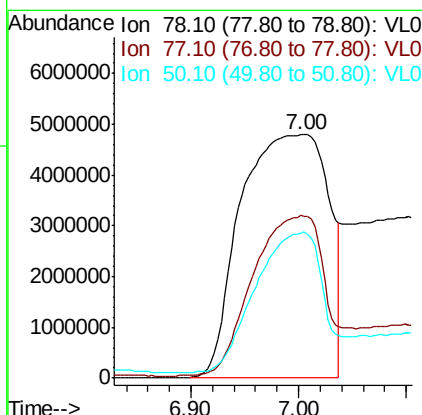
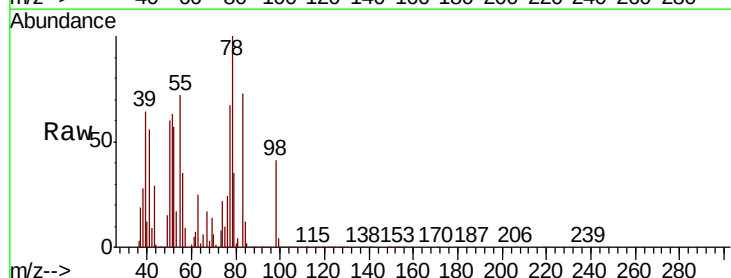
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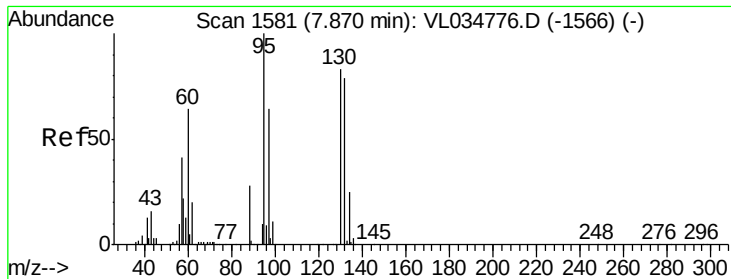
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#36
Benzene
Concen: 3828.366 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. 0.08 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion: 78 Resp: 27141880
Ion Ratio Lower Upper
78 100
77 66.8 18.0 27.0#
50 59.5 16.9 25.3#





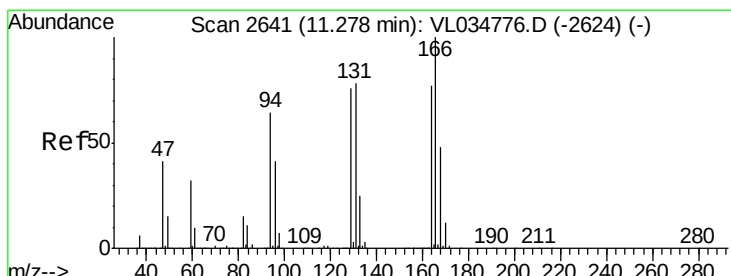
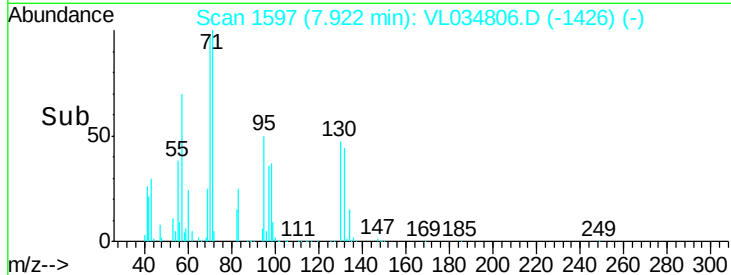
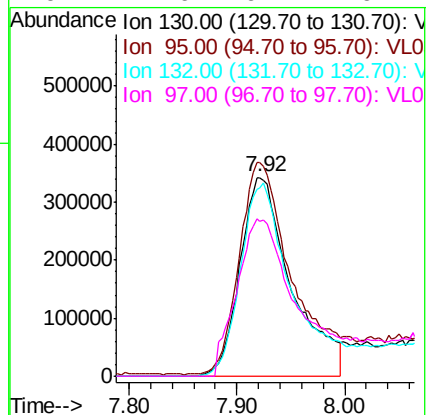
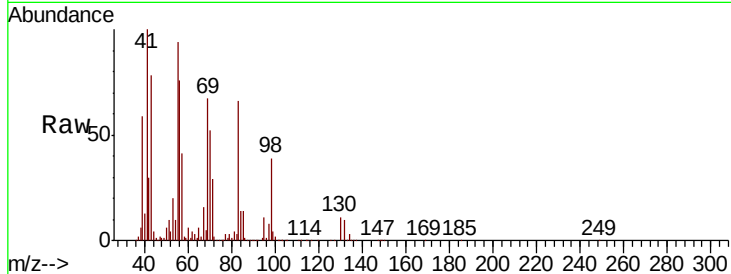
#38
 Trichloroethene
 Concen: 409.956 ppbv
 RT: 7.92 min Scan# 1597
 Delta R.T. 0.05 min
 Lab File: VL034806.D
 Acq: 5 Mar 2020 21:47

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3-4

Tot Ion	Ion	Ratio	Lower	Upper
130	100			
95	106.2	95.8	143.8	
132	94.3	76.1	114.1	
97	77.6	61.1	91.7	

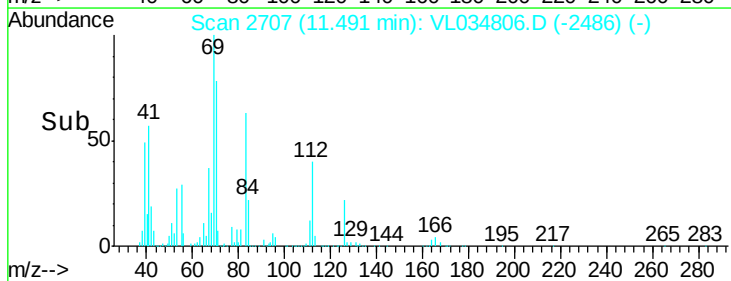
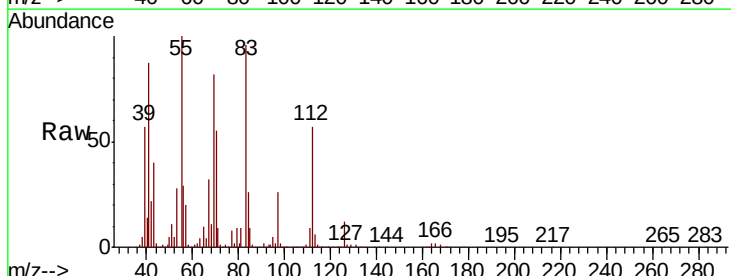
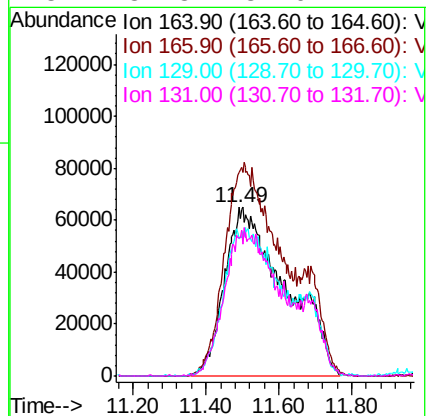
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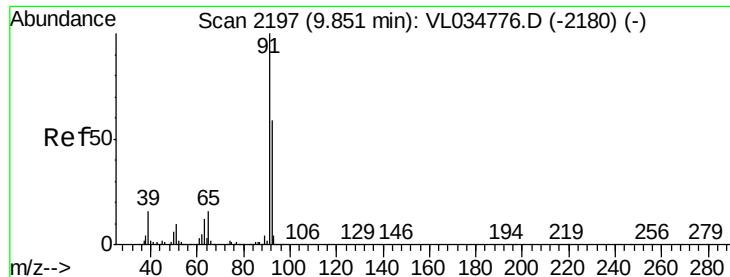
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#52
 Tetrachloroethene
 Concen: 286.594 ppbv m
 RT: 11.49 min Scan# 2707
 Delta R.T. 0.21 min
 Lab File: VL034806.D
 Acq: 5 Mar 2020 21:47

Tgt Ion	Ion	Ratio	Lower	Upper
164	100			
166	120.4	103.3	154.9	
129	80.9	79.0	118.4	
131	81.8	81.0	121.4	





#53

Toluene

Concen: 4887.343 ppbv m

RT: 10.38 min Scan# 2363

Delta R.T. 0.53 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

Instrument :

MSVOA_L

ClientSampleId :

SS-3-4

Tot Ion: 91 Resp: 36672261

Ion Ratio Lower Upper

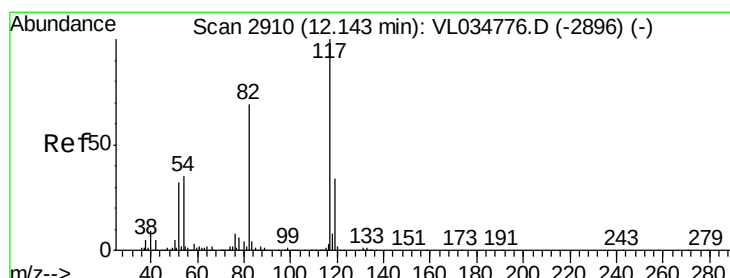
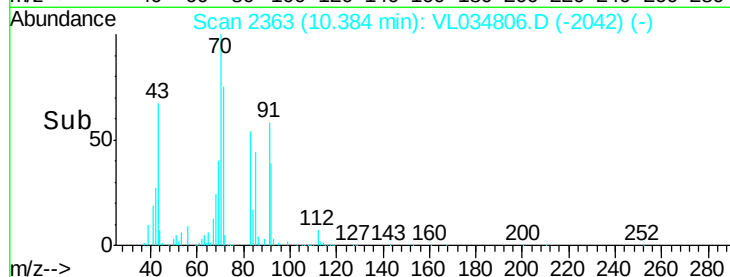
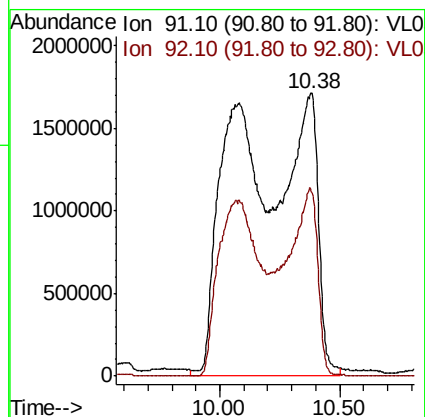
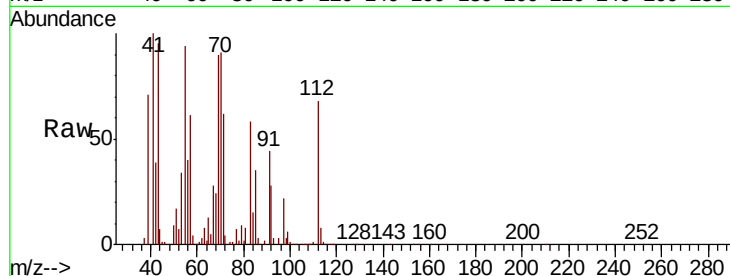
91 100

92 0.0 48.2 72.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.33 min Scan# 2968

Delta R.T. 0.19 min

Lab File: VL034806.D

Acq: 5 Mar 2020 21:47

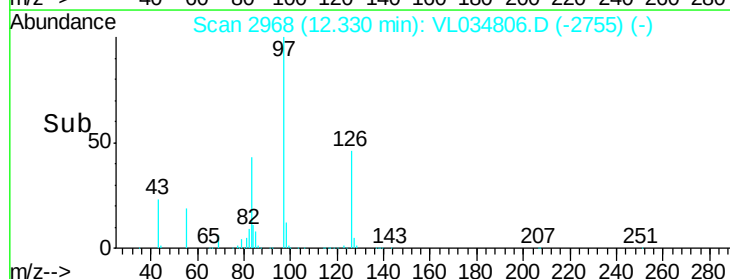
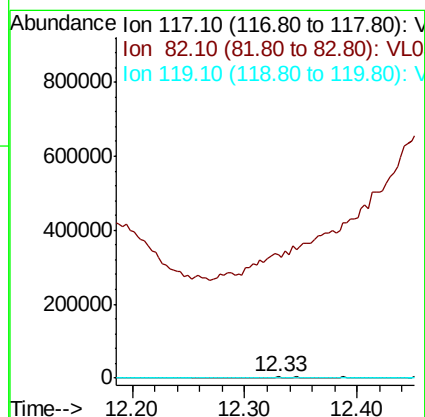
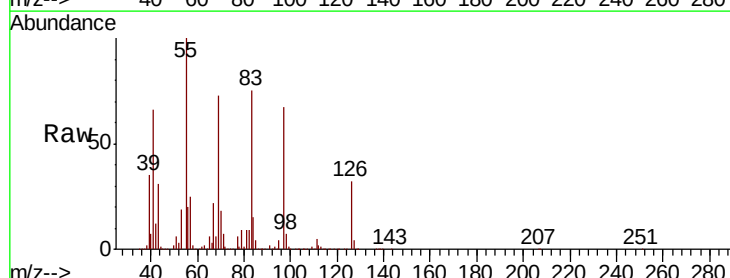
Tgt Ion: 117 Resp: 12943

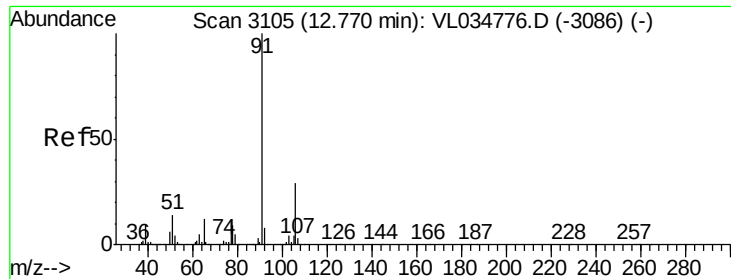
Ion Ratio Lower Upper

117 100

82 0.0 53.9 80.9#

119 0.0 25.0 37.4#





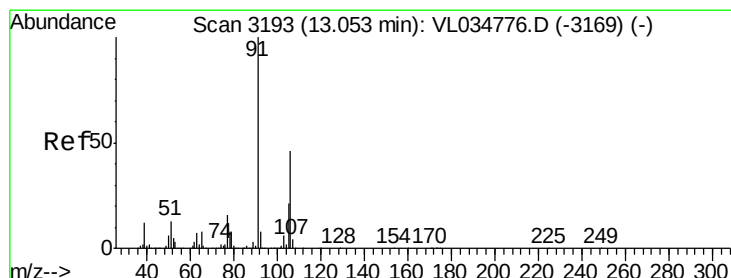
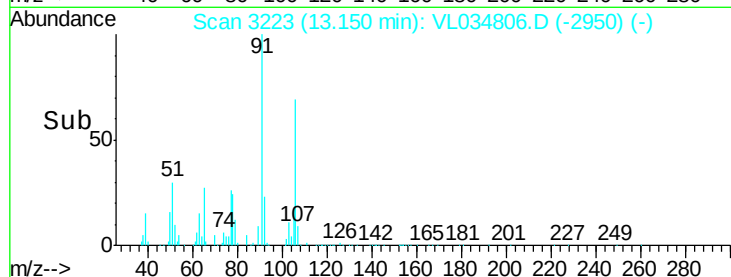
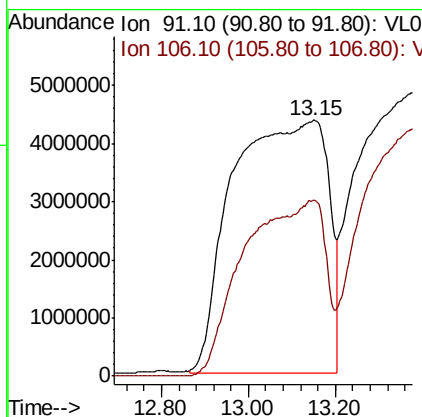
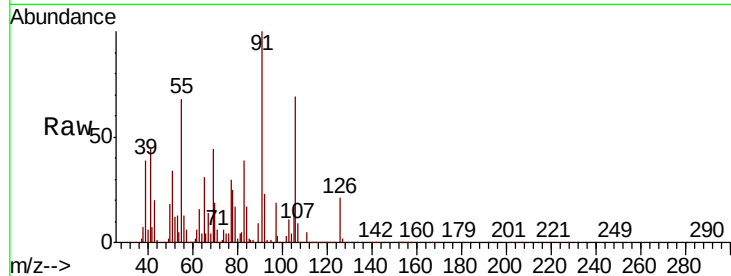
#58
Ethyl Benzene
Concen: 41253.827 ppbv m
RT: 13.15 min Scan# 3223
Delta R.T. 0.38 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampled :
SS-3-4

Tot Ion: 91 Resp:65801145
Ion Ratio Lower Upper
91 100
106 68.6 22.8 34.2#

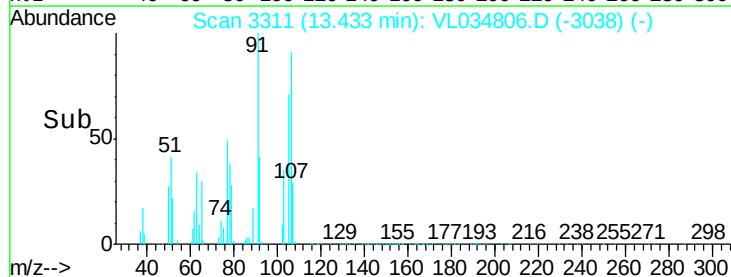
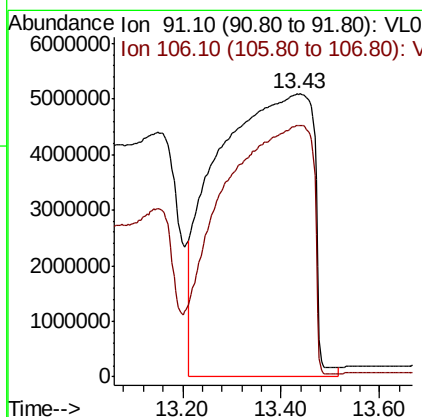
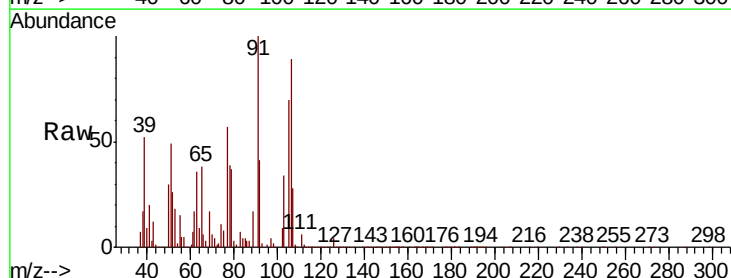
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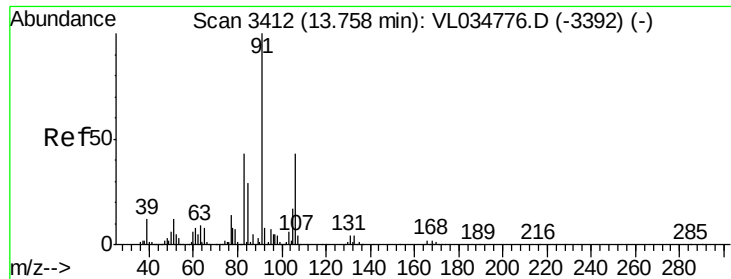
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#59
m/p-Xylene
Concen: 50596.619 ppbv m
RT: 13.43 min Scan# 3311
Delta R.T. 0.38 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion: 91 Resp:69859810
Ion Ratio Lower Upper
91 100
106 55.8 35.8 53.8#





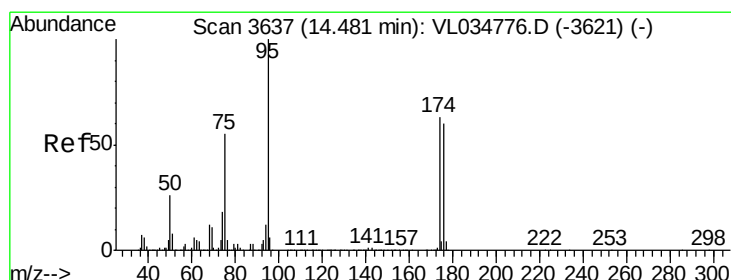
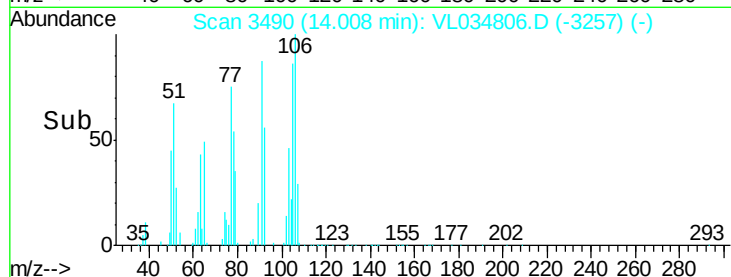
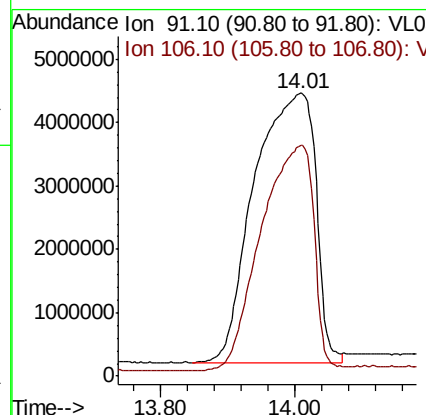
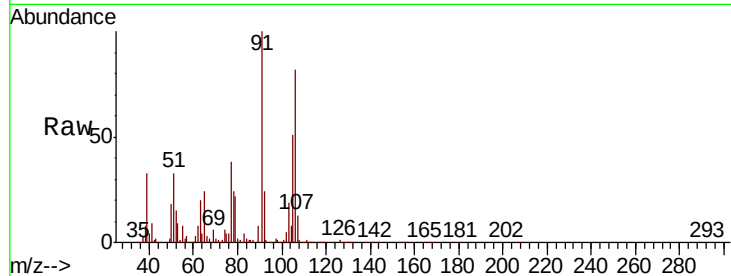
#60
o-Xylene
Concen: 19283.662 ppbv
RT: 14.01 min Scan# 3490
Delta R.T. 0.25 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Instrument :
MSVOA_L
ClientSampled :
SS-3-4

Tot Ion: 91 Resp: 26938932
Ion Ratio Lower Upper
91 100
106 71.9 21.7 65.1#

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#68
1-Bromo-4-Fluorobenzene
Concen: 397.908 ppbv m
RT: 14.63 min Scan# 3682
Delta R.T. 0.14 min
Lab File: VL034806.D
Acq: 5 Mar 2020 21:47

Tgt Ion: 95 Resp: 429441
Ion Ratio Lower Upper
95 100
174 0.0 50.6 76.0#
175 0.0 3.8 5.6#

