

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034803.D
 Acq On : 5 Mar 2020 19:48
 Operator : SY/AP
 Sample : L1698-04 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4

Manual Integrations
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MMDadoda
 3/9/2020 9:19:06 AM

Quant Time: Mar 06 12:18:47 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	5.69	49	826316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	989226m	10.00	ppbv	0.08
55) Chlorobenzene-d5	12.27	117	989987	10.00	ppbv	0.12

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2065056	25.02	ppbv	0.08
Spiked Amount	10.000	Range	65 - 135	Recovery	=	250.20%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.21	62	7382384	137.815	ppbv #	50
9) Propene	2.96	41	3590364	96.893	ppbv	91
10) Heptane	8.06	43	10762809	114.288	ppbv #	1
11) Trichlorofluoromethane	3.93	101	108858m	0.902	ppbv	
13) Ethanol	3.56	45	326105	25.685	ppbv	98
15) Acetone	3.81	43	3264434m	32.990	ppbv	
19) Isopropyl Alcohol	3.93	45	1378726	23.255	ppbv #	93
26) Hexane	5.87	57	53144600m	711.436	ppbv	
30) Cyclohexane	7.29	84	30813439m	539.179	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	671606	8.766	ppbv	98
36) Benzene	7.02	78	35126154	415.546	ppbv #	19
52) Tetrachloroethene	11.44	164	39042m	1.250	ppbv	
53) Toluene	10.03	91	22318065	249.463	ppbv #	83
58) Ethyl Benzene	12.93	91	2701708m	22.145	ppbv	
59) m/p-Xylene	13.18	91	2169990	20.547	ppbv	99
60) o-Xylene	13.87	91	969195	9.070	ppbv	93
62) Isopropylbenzene	14.80	105	121029m	0.770	ppbv	
64) n-propylbenzene	15.67	120	20823m	0.528	ppbv	
65) tert-Butylbenzene	16.85	119	32499m	0.245	ppbv	
67) sec-Butylbenzene	17.37	105	36159m	0.187	ppbv	
72) 4-Ethyltoluene	15.95	105	117394m	0.987	ppbv	
73) 1,3,5-Trimethylbenzene	16.10	105	176297	1.545	ppbv	94
74) 1,2,4-Trimethylbenzene	16.85	105	212077	1.710	ppbv #	67

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

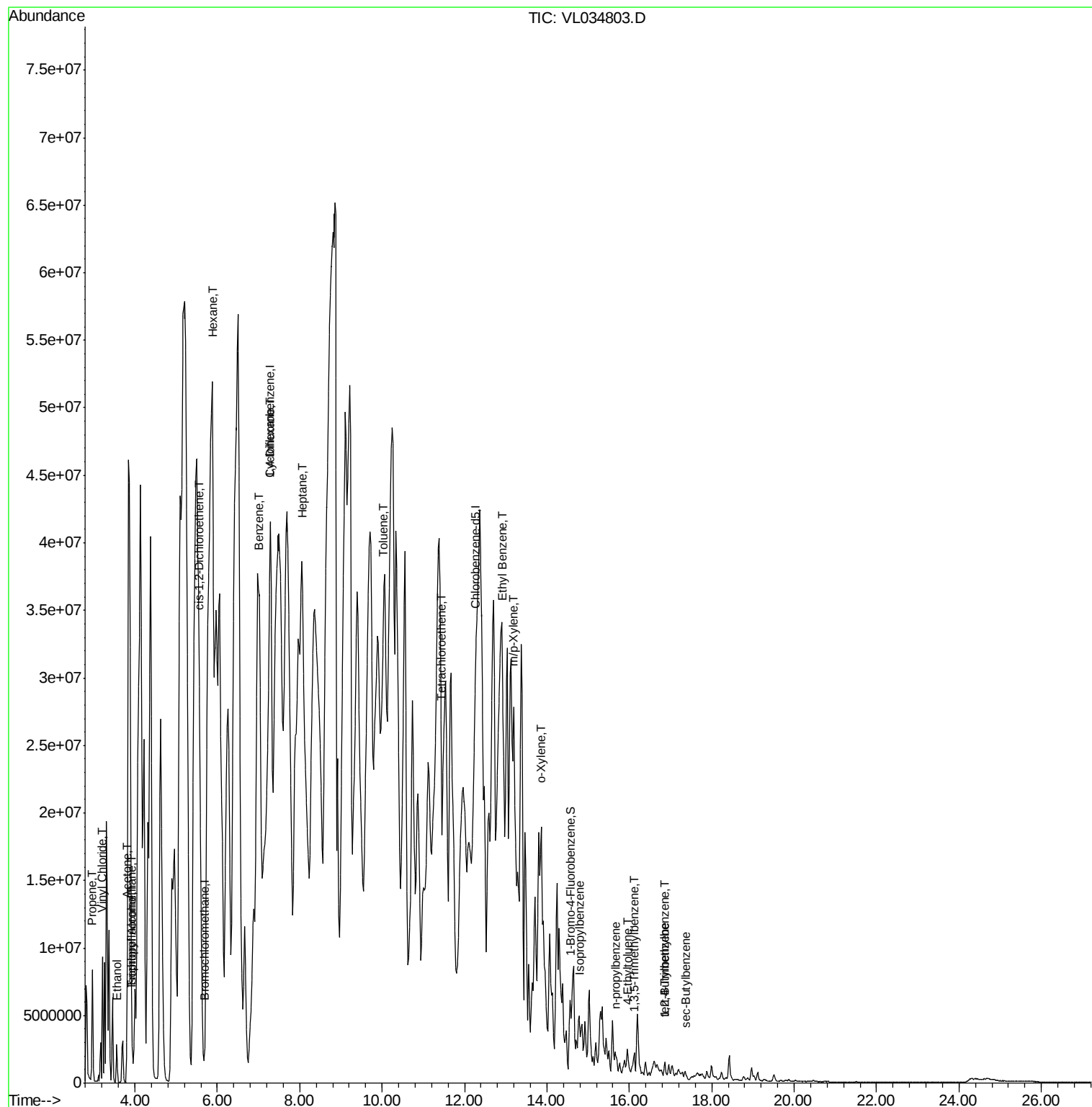
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030520\
Data File : VL034803.D
Acq On : 5 Mar 2020 19:48
Operator : SY/AP
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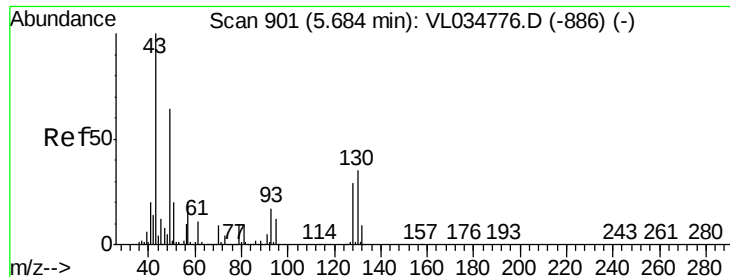
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

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3/9/2020 9:19:06 AM

Quant Time: Mar 06 12:18:47 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: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

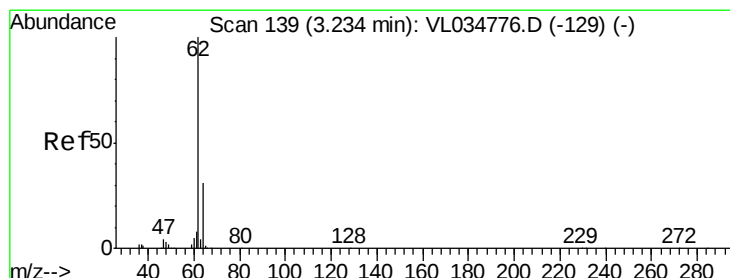
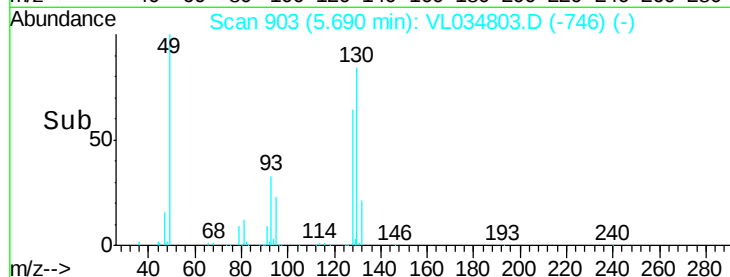
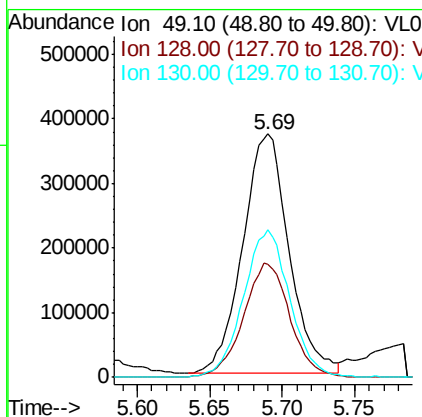
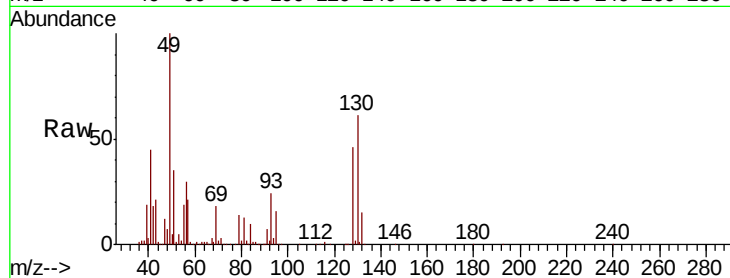
ClientSampled :

SS-4-4

Tot Ion:	49	Resp:	826316
Ion	Ratio	Lower	Upper
49	100		
128	48.1	21.6	64.6
130	62.0	27.4	82.2

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#5

Vinyl Chloride

Concen: 137.815 ppbv

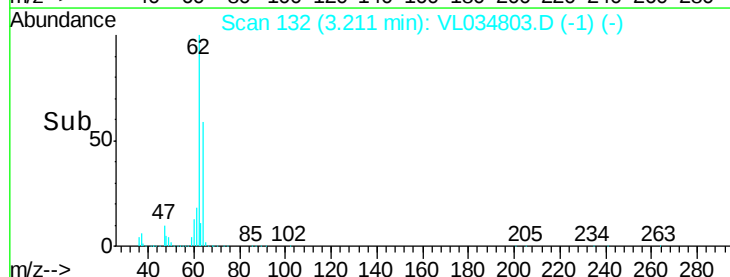
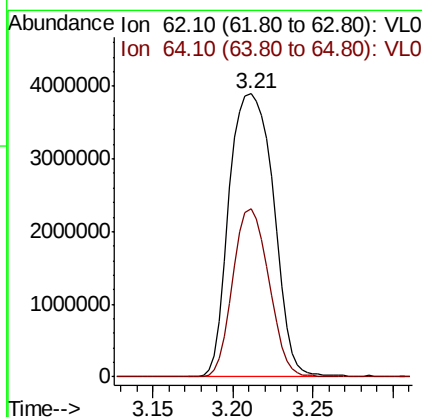
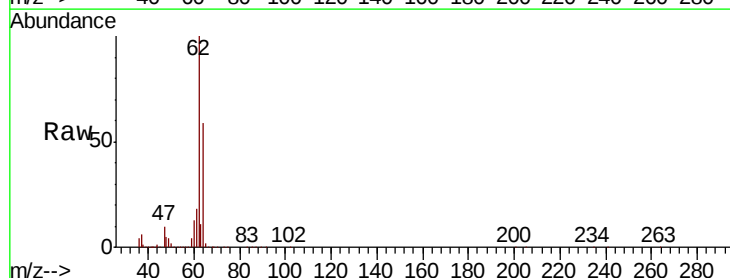
RT: 3.21 min Scan# 132

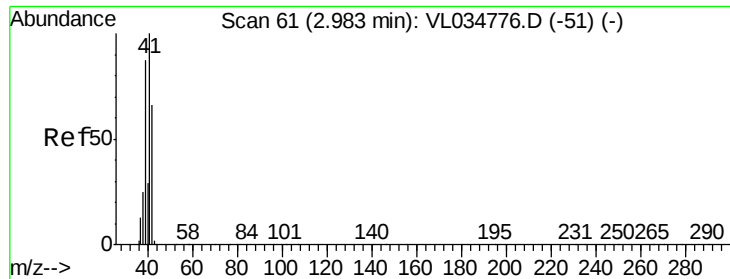
Delta R.T. -0.02 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion:	62	Resp:	7382384
Ion	Ratio	Lower	Upper
62	100		
64	59.3	25.1	37.7#





#9

Propene

Concen: 96.893 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

Tot Ion: 41 Resp: 3590364

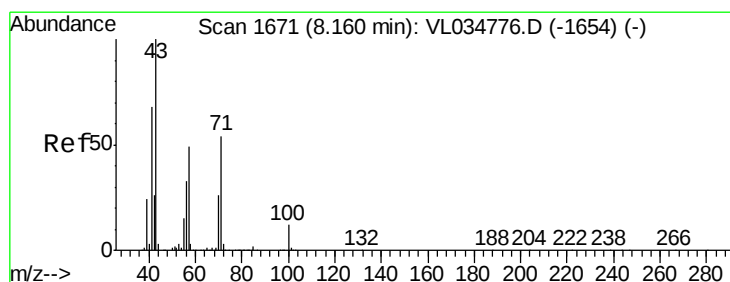
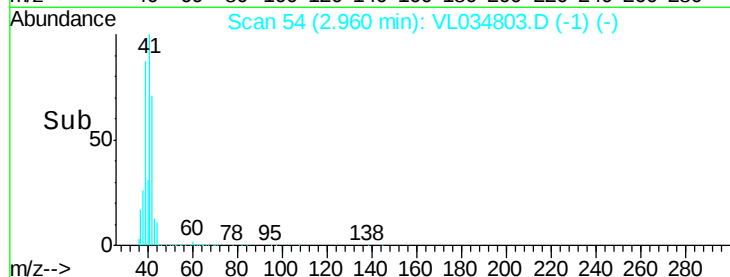
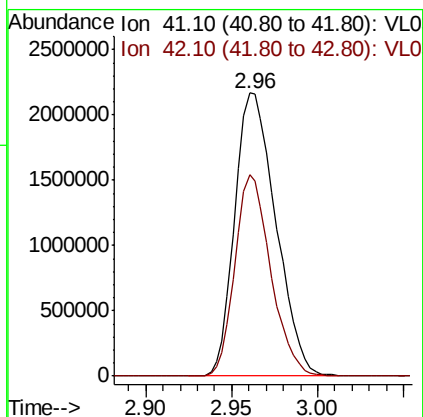
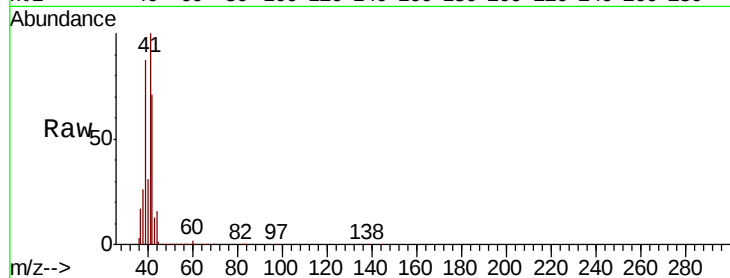
Ion Ratio Lower Upper

41 100

42 62.5 55.6 83.4

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#10

Heptane

Concen: 114.288 ppbv

RT: 8.06 min Scan# 1641

Delta R.T. -0.10 min

Lab File: VL034803.D

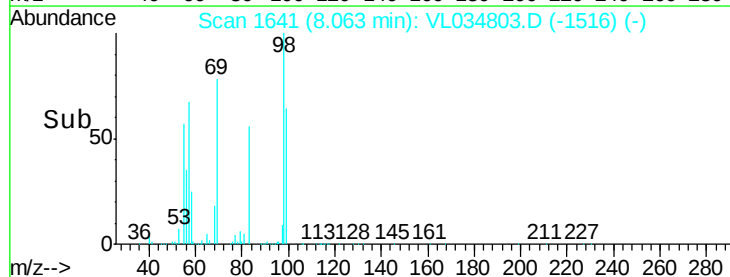
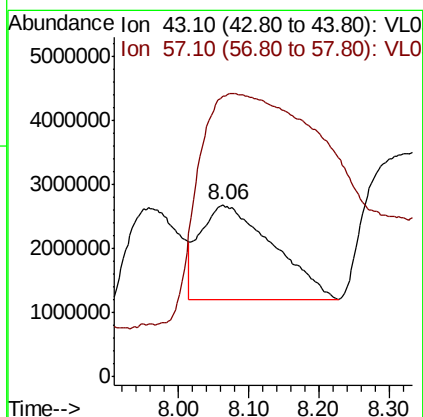
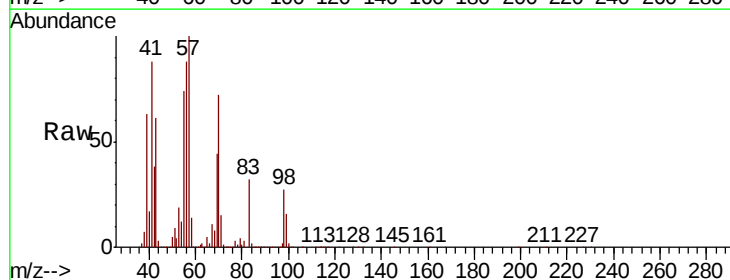
Acq: 5 Mar 2020 19:48

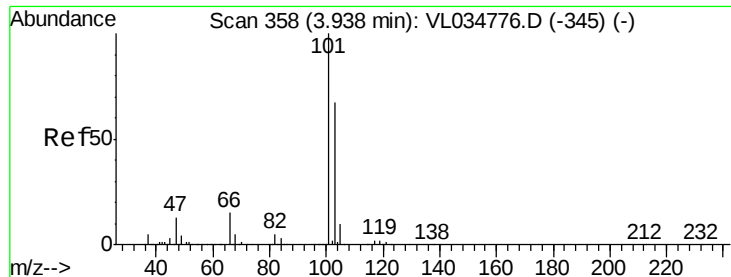
Tgt Ion: 43 Resp: 10762809

Ion Ratio Lower Upper

43 100

57 521.3 40.5 60.7#





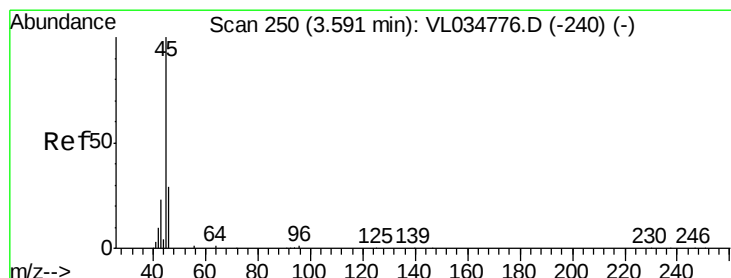
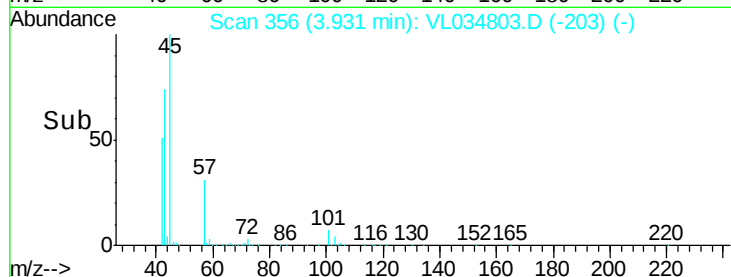
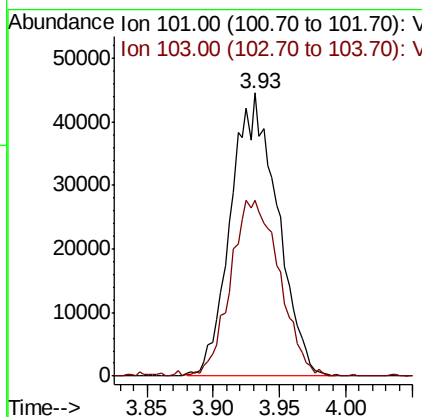
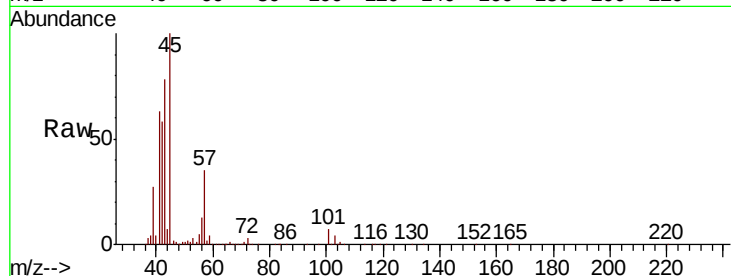
#11
 Trichlorofluoromethane
 Concen: 0.902 ppbv m
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Instrument :
 MSVOA_L
 ClientSampled :
 SS-4-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		108858		
103	62.3	53.6	80.4		

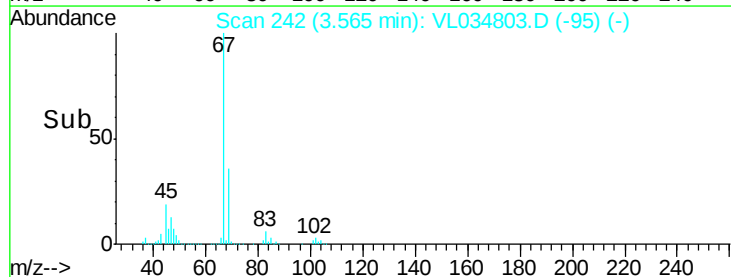
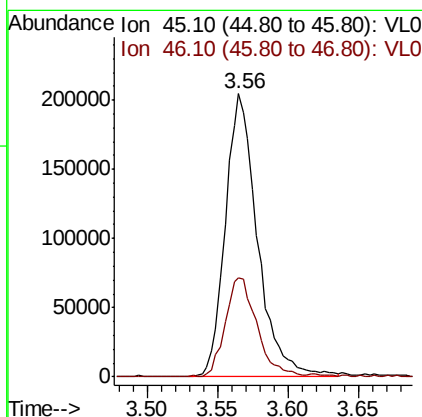
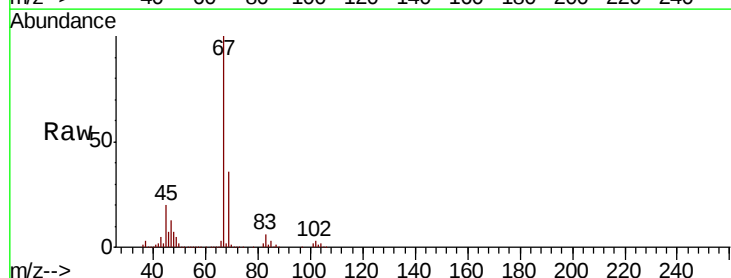
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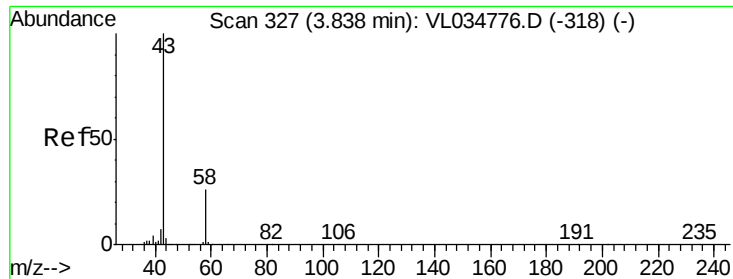
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#13
 Ethanol
 Concen: 25.685 ppbv
 RT: 3.56 min Scan# 242
 Delta R.T. -0.03 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		326105		
46	35.6	14.7	58.9		





#15

Acetone

Concen: 32.990 ppbv m

RT: 3.81 min Scan# 318

Delta R.T. -0.03 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

Tot Ion: 43 Resp: 3264434

Ion Ratio Lower Upper

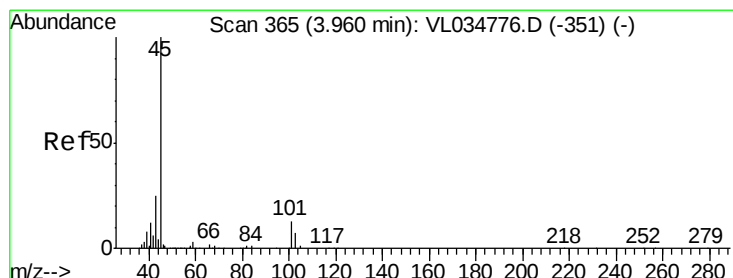
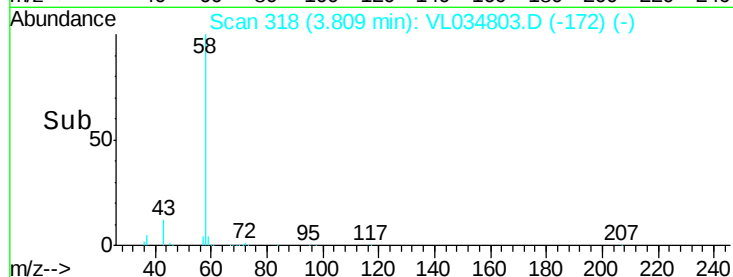
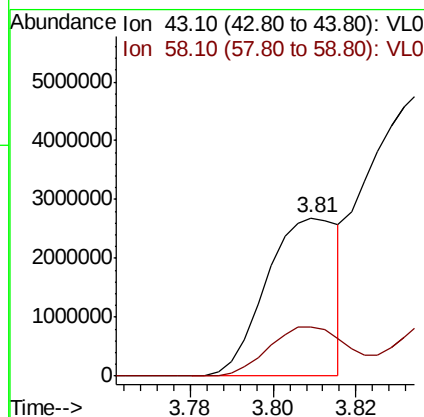
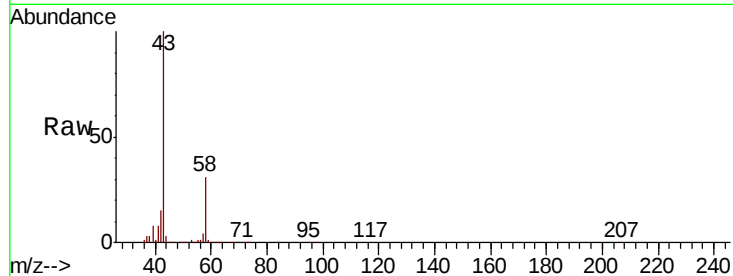
43 100

58 118.2 21.0 31.6#

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#19

Isopropyl Alcohol

Concen: 23.255 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.03 min

Lab File: VL034803.D

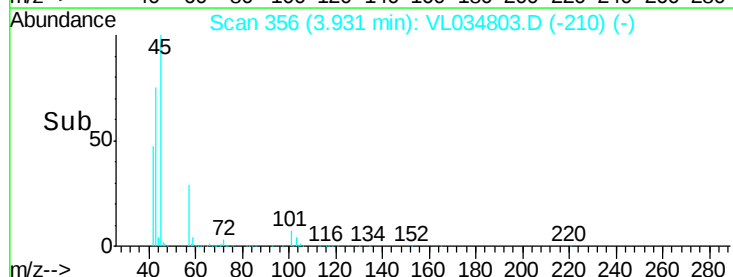
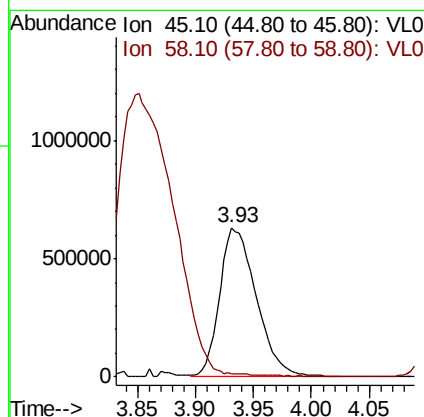
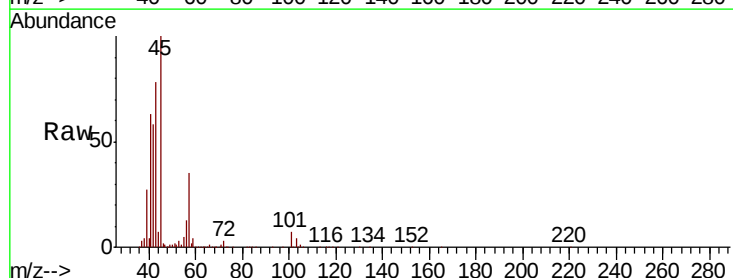
Acq: 5 Mar 2020 19:48

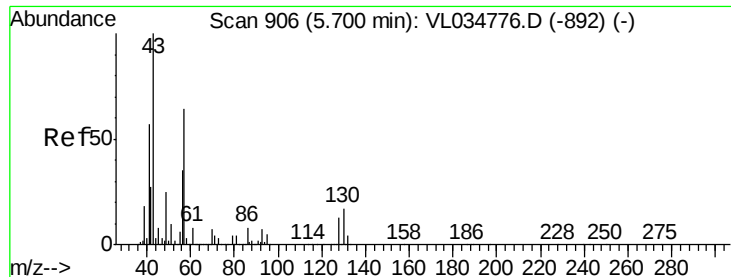
Tgt Ion: 45 Resp: 1378726

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#





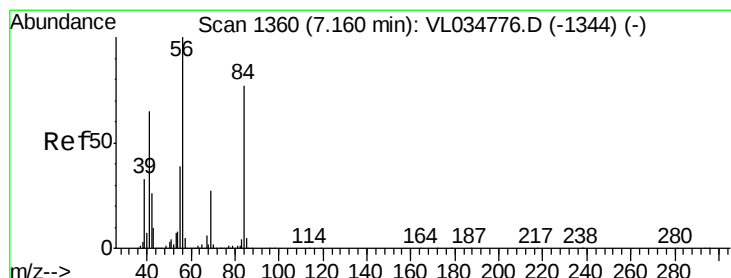
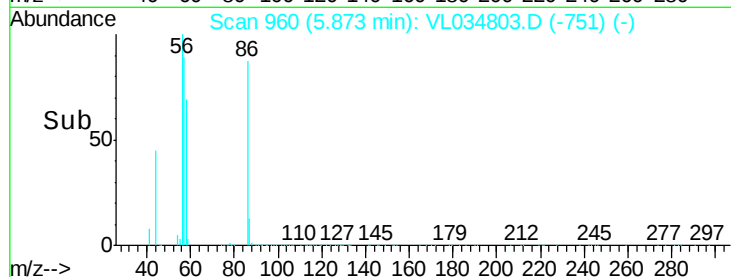
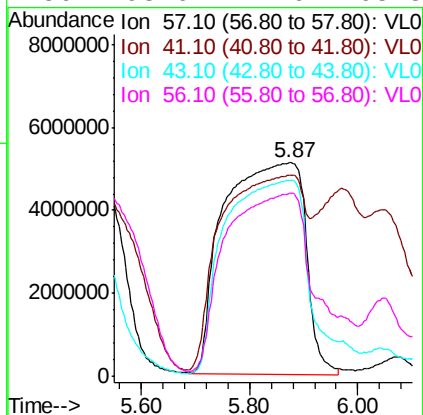
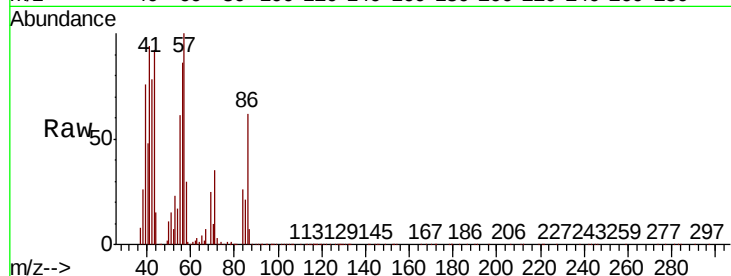
#26
Hexane
Concen: 711.436 ppbv m
RT: 5.87 min Scan# 960
Delta R.T. 0.17 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

Tot Ion: 57 Resp:53144600
Ion Ratio Lower Upper
57 100
41 96.0 72.0 108.0
43 95.7 179.1 268.7#
56 93.6 42.6 63.8#

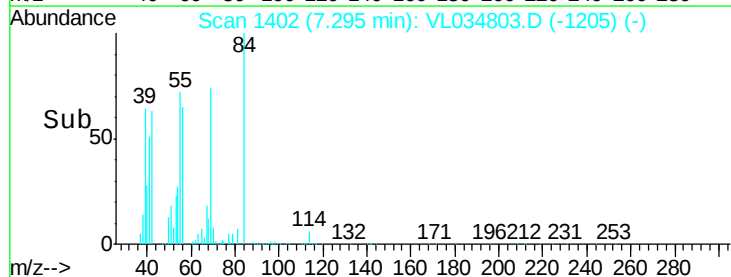
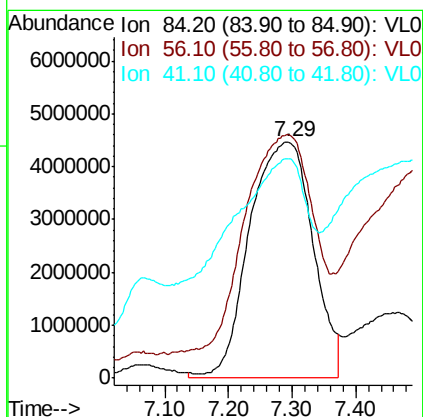
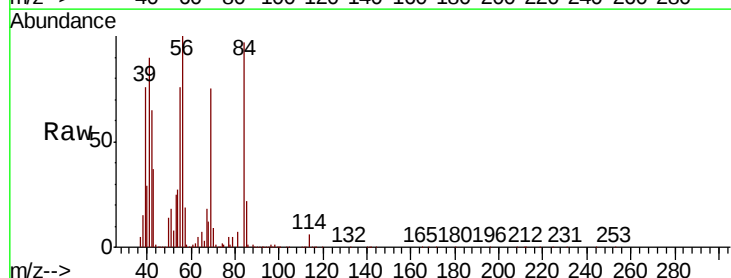
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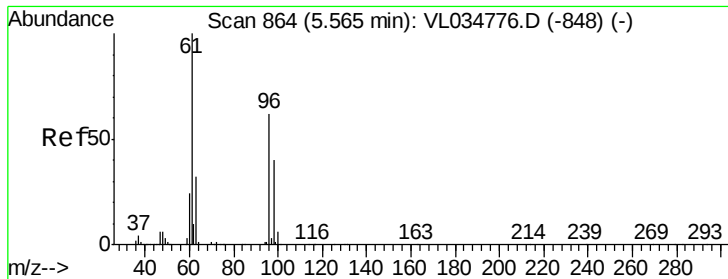
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#30
Cyclohexane
Concen: 539.179 ppbv m
RT: 7.29 min Scan# 1402
Delta R.T. 0.13 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 84 Resp:30813439
Ion Ratio Lower Upper
84 100
56 0.0 113.2 169.8#
41 11.2 70.2 105.4#





#31

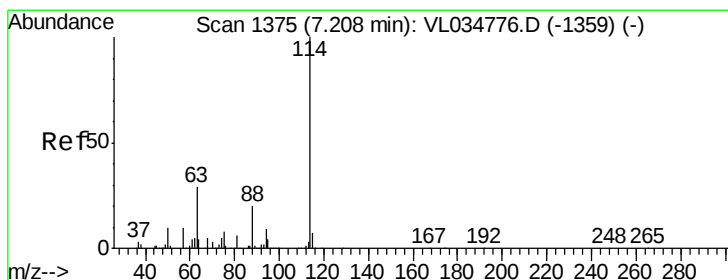
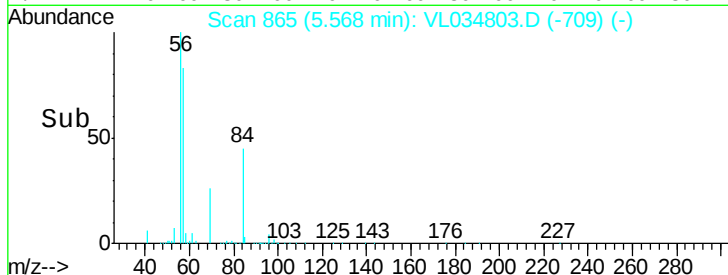
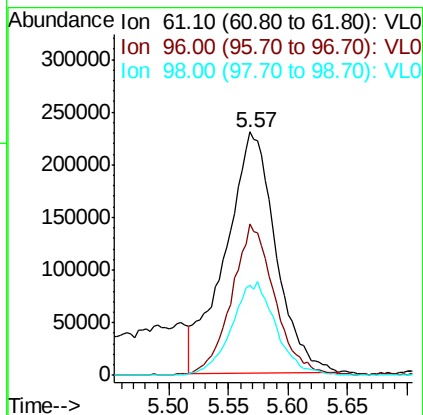
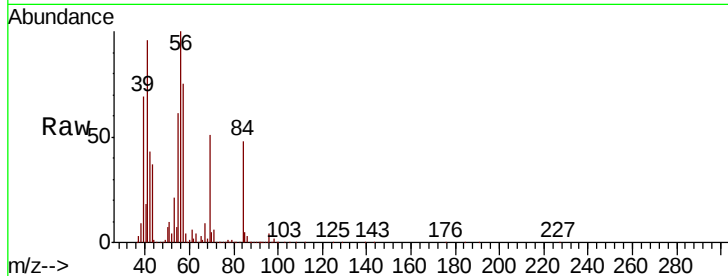
cis-1,2-Dichloroethene
Concen: 8.766 ppbv
RT: 5.57 min Scan# 865
Delta R.T. 0.00 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampled :
SS-4-4

Tot Ion	61	Resp	671606
Ion Ratio	Lower	Upper	
61	100		
96	62.2	49.7	74.5
98	37.2	31.9	47.9

Manual Integrations
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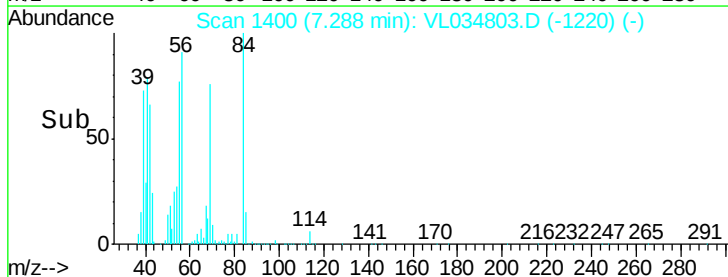
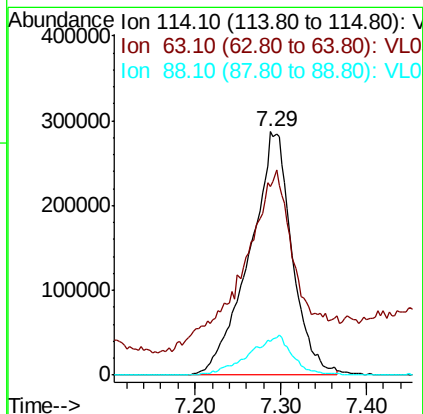
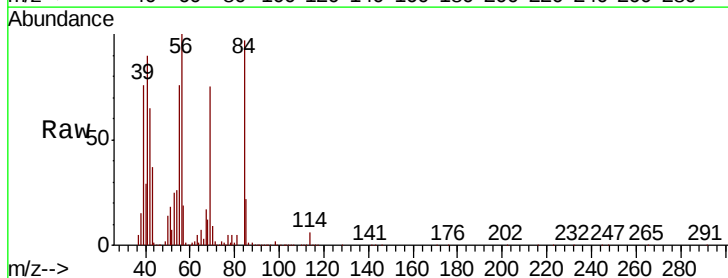
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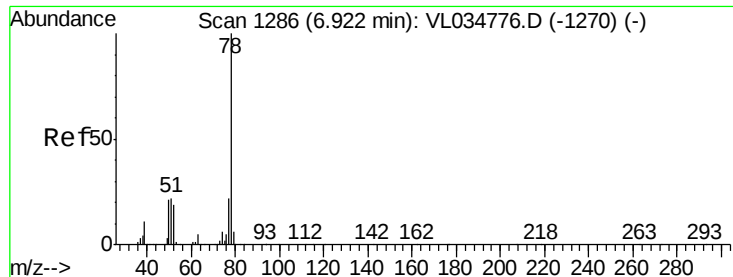


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv m
RT: 7.29 min Scan# 1400
Delta R.T. 0.08 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion	114	Resp	989226
Ion Ratio	Lower	Upper	
114	100		
63	0.0	23.6	35.4#
88	0.0	15.8	23.8#





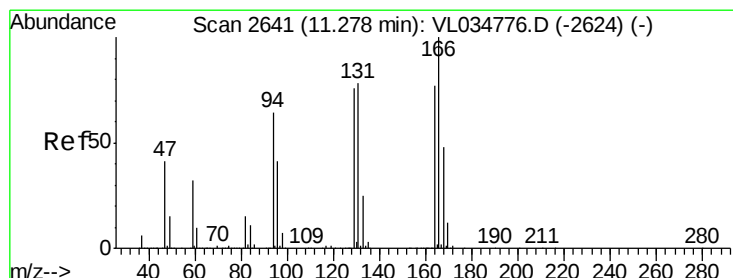
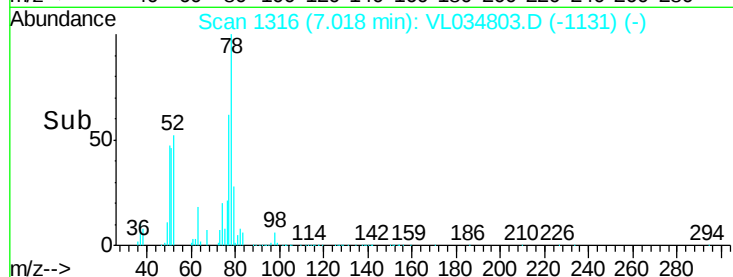
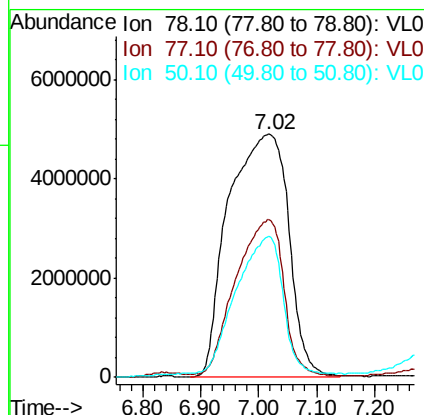
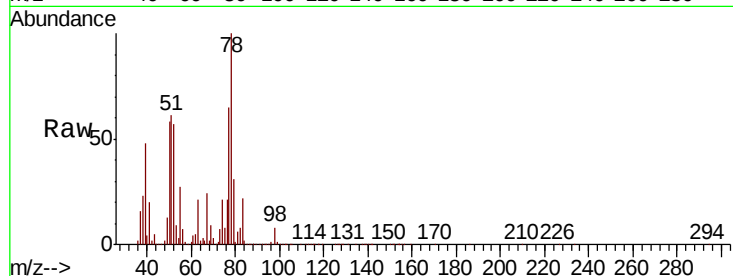
#36
Benzene
Concen: 415.546 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. 0.10 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampled :
SS-4-4

Tot Ion: 78 Resp: 35126154
Ion Ratio Lower Upper
78 100
77 64.3 18.0 27.0#
50 56.5 16.9 25.3#

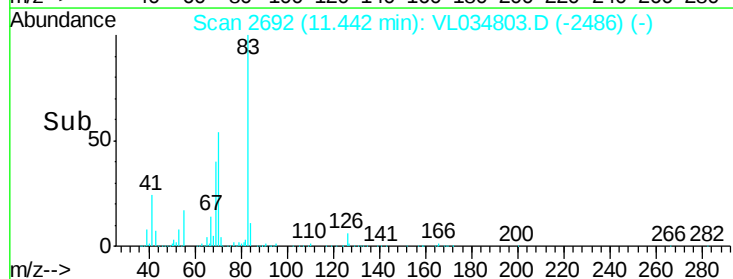
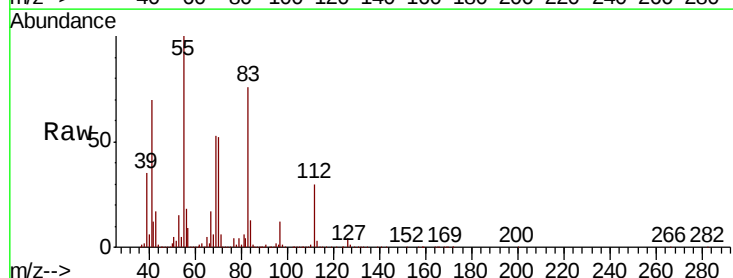
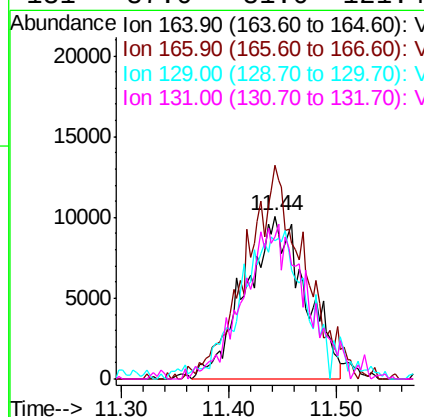
Manual Integrations
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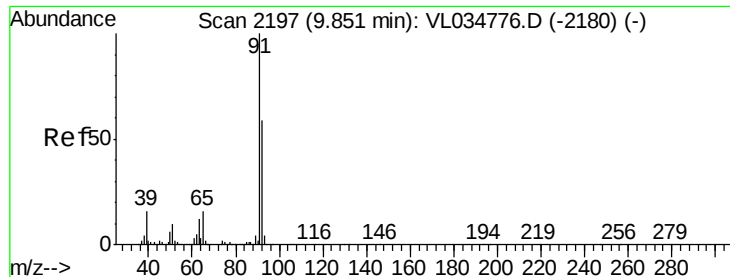
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#52
Tetrachloroethene
Concen: 1.250 ppbv m
RT: 11.44 min Scan# 2692
Delta R.T. 0.16 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 164 Resp: 39042
Ion Ratio Lower Upper
164 100
166 131.2 103.3 154.9
129 84.8 79.0 118.4
131 87.0 81.0 121.4





#53

Toluene

Concen: 249.463 ppbv

RT: 10.03 min Scan# 2252

Delta R.T. 0.18 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

Tot Ion: 91 Resp: 22318065

Ion Ratio Lower Upper

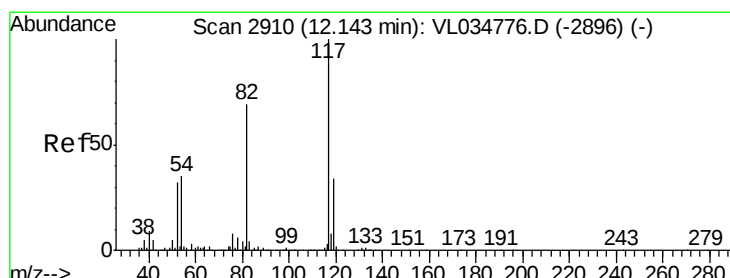
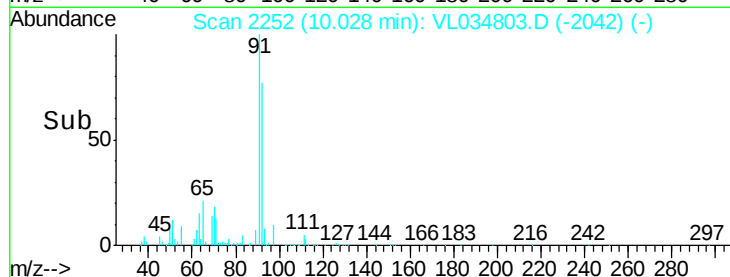
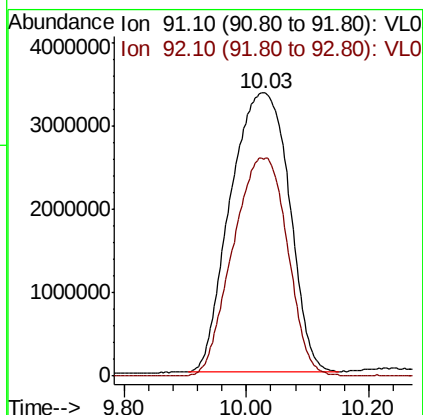
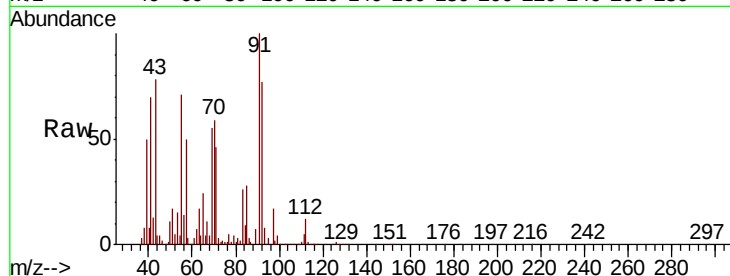
91 100

92 72.8 48.2 72.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2948

Delta R.T. 0.12 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

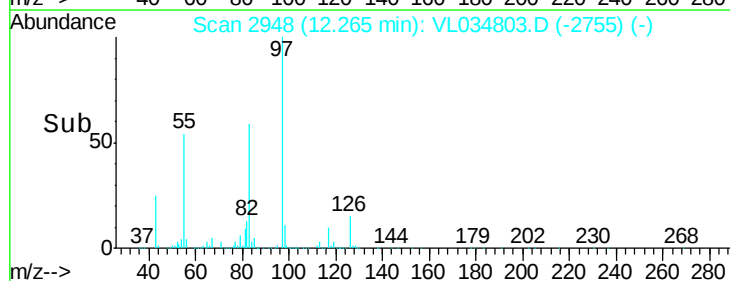
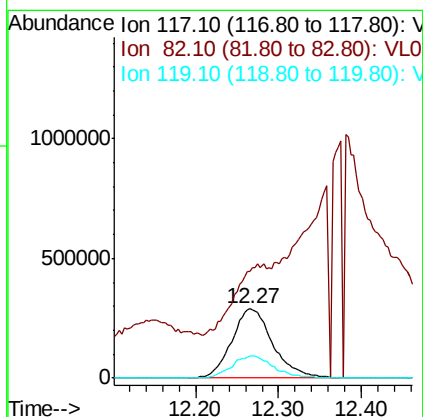
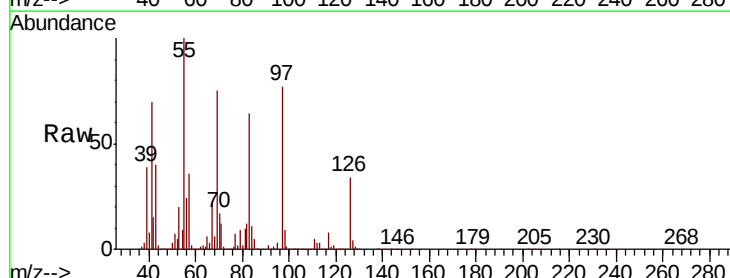
Tgt Ion: 117 Resp: 989987

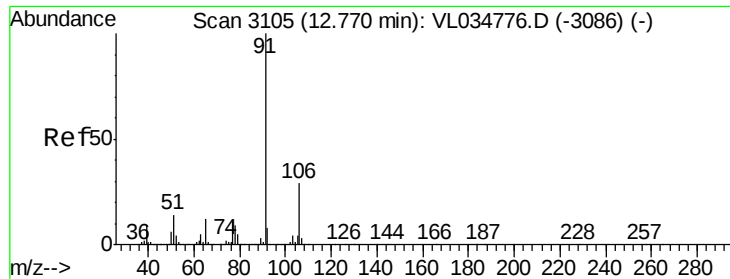
Ion Ratio Lower Upper

117 100

82 423.7 53.9 80.9#

119 33.2 25.0 37.4





#58

Ethyl Benzene

Concen: 22.145 ppbv m

RT: 12.93 min Scan# 3154

Delta R.T. 0.16 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampled :

SS-4-4

Tot Ion: 91 Resp: 2701708

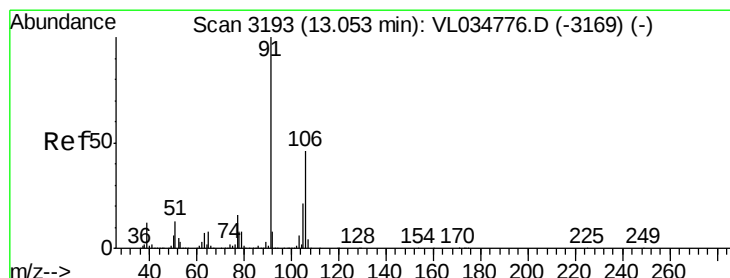
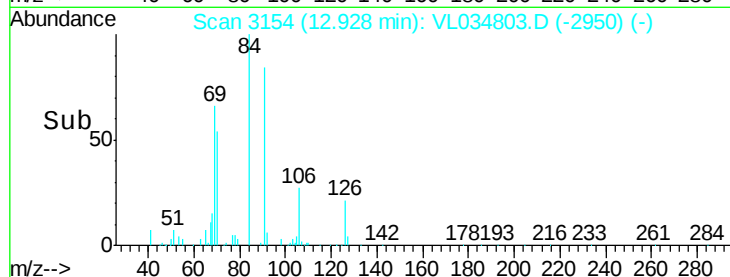
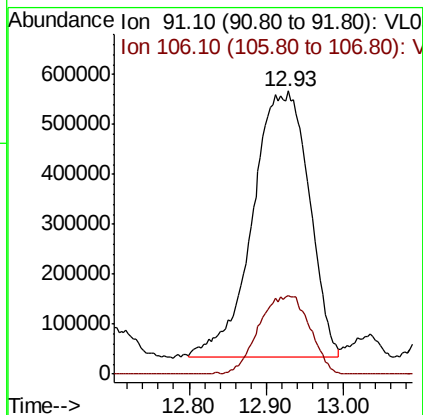
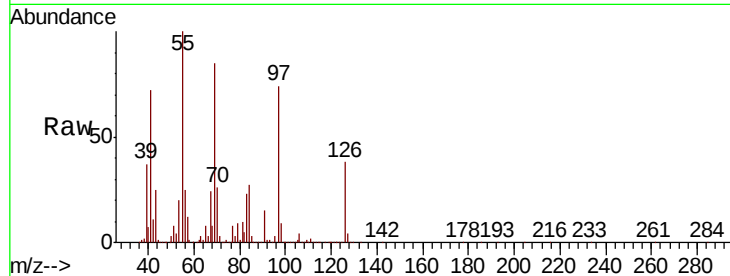
Ion Ratio Lower Upper

91 100

106 27.9 22.8 34.2

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#59

m/p-Xylene

Concen: 20.547 ppbv

RT: 13.18 min Scan# 3232

Delta R.T. 0.13 min

Lab File: VL034803.D

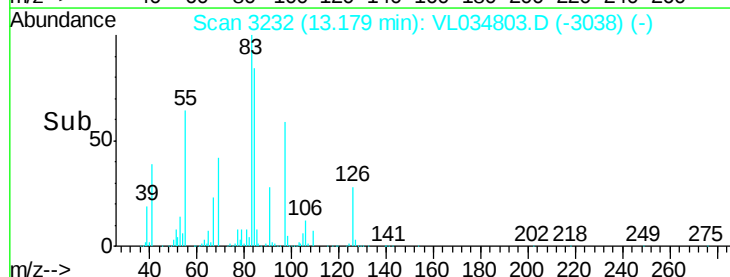
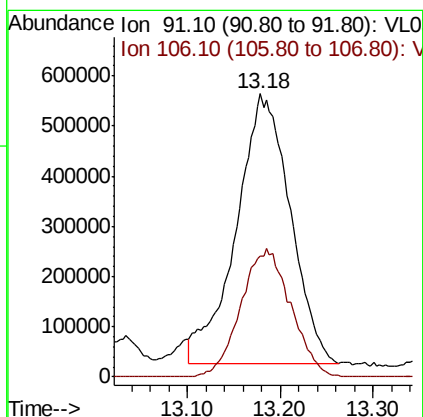
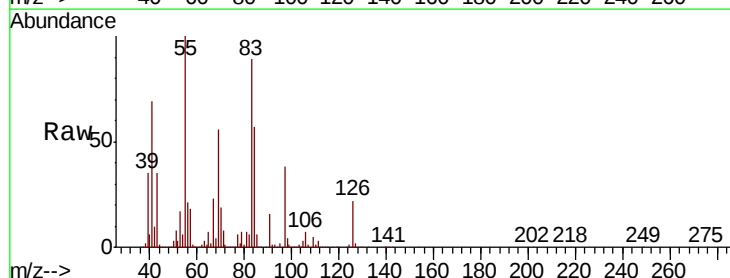
Acq: 5 Mar 2020 19:48

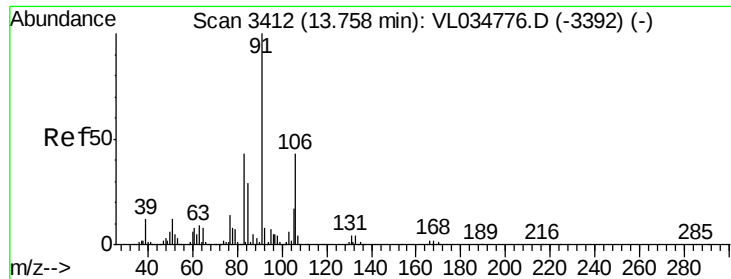
Tgt Ion: 91 Resp: 2169990

Ion Ratio Lower Upper

91 100

106 43.9 35.8 53.8





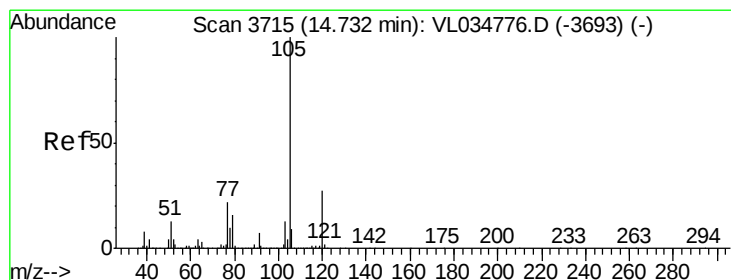
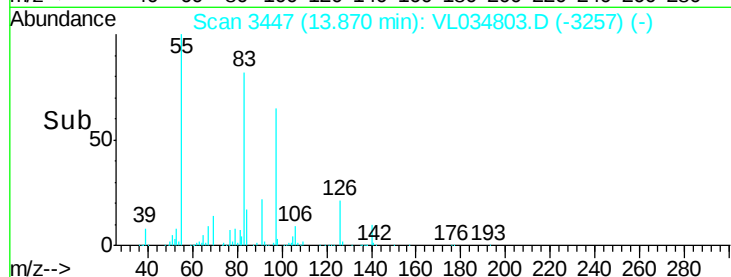
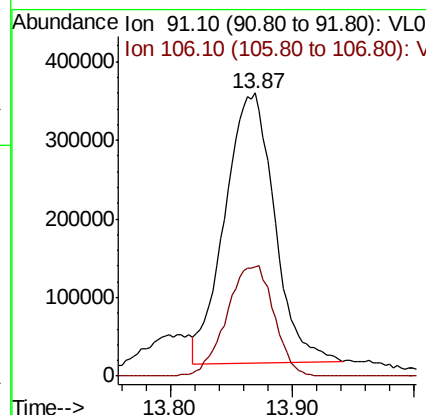
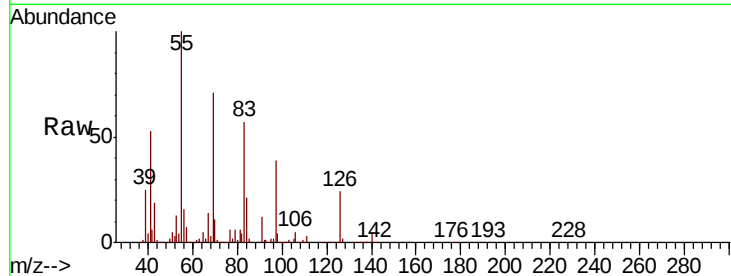
#60
o-Xylene
Concen: 9.070 ppbv
RT: 13.87 min Scan# 3447
Delta R.T. 0.11 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampled :
SS-4-4

Tot Ion	Ratio	Lower	Upper
91	100		
106	39.2	21.7	65.1

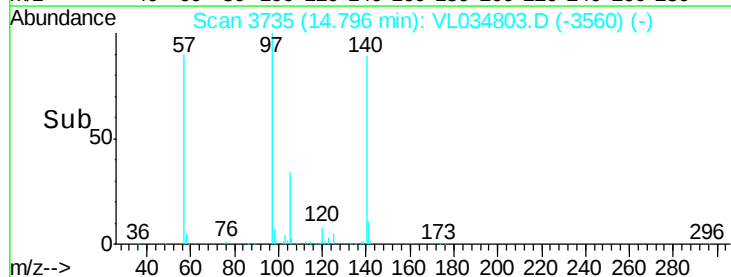
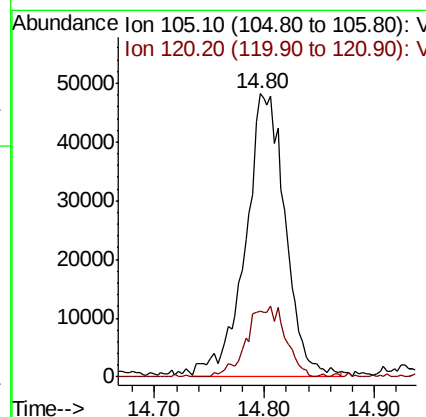
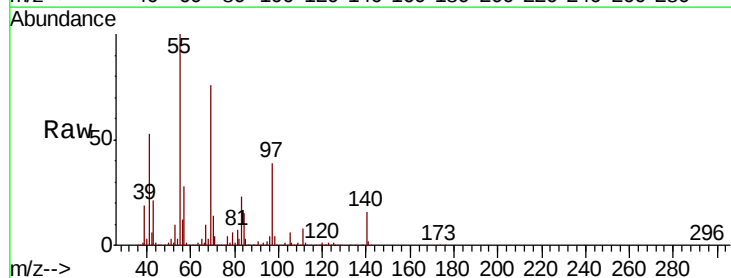
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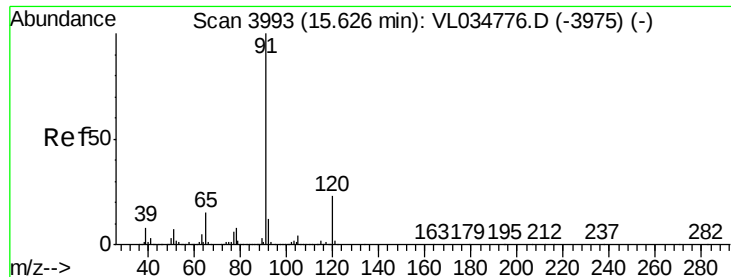
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#62
Isopropylbenzene
Concen: 0.770 ppbv m
RT: 14.80 min Scan# 3735
Delta R.T. 0.06 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.5	30.7





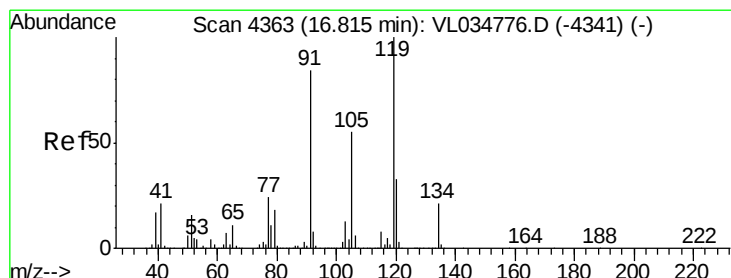
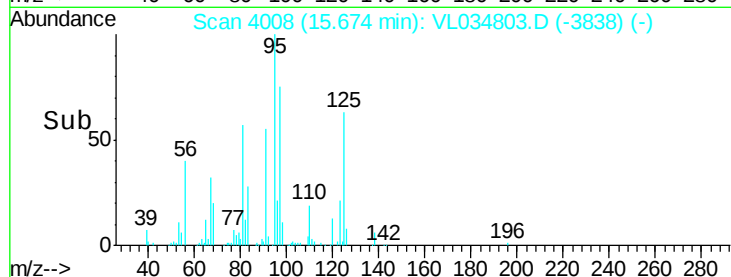
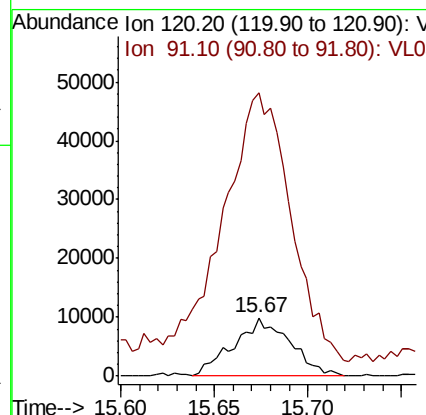
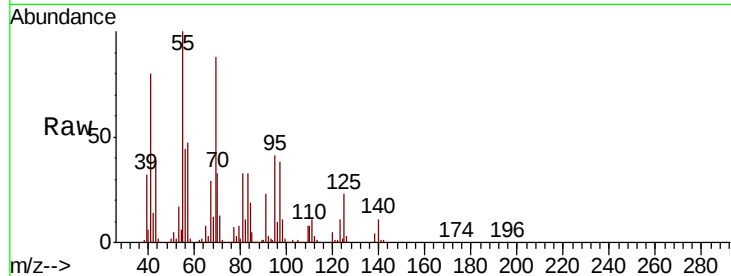
#64
n-propylbenzene
Concen: 0.528 ppbv m
RT: 15.67 min Scan# 4008
Delta R.T. 0.05 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampled :
SS-4-4

Tot Ion:120 Resp: 20823
Ion Ratio Lower Upper
120 100
91 77.0 379.4 569.2#

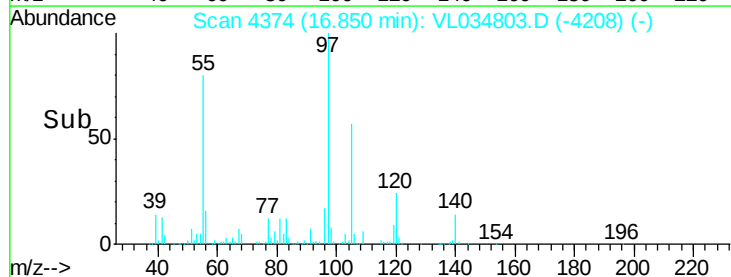
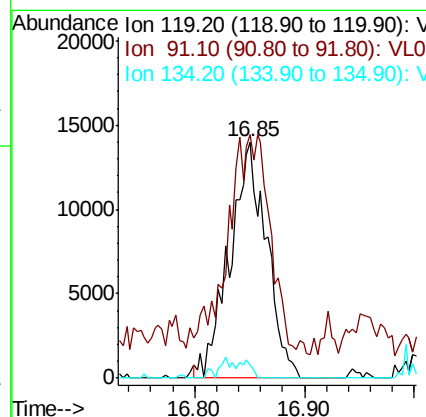
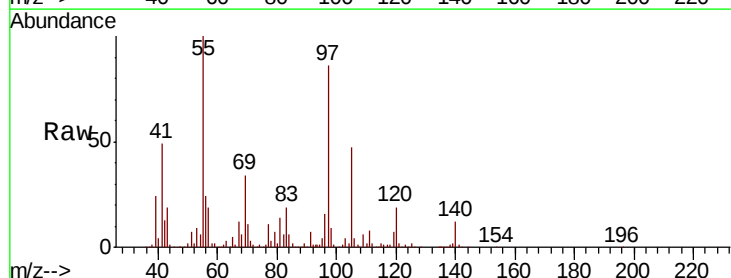
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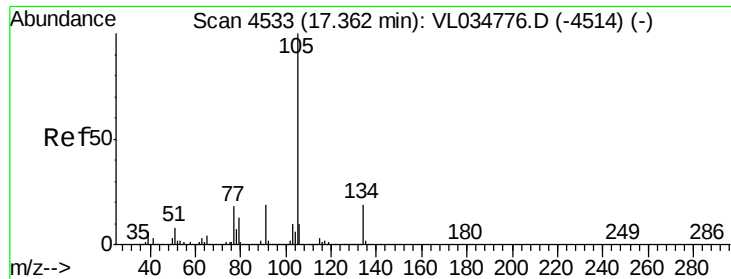
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#65
tert-Butylbenzene
Concen: 0.245 ppbv m
RT: 16.85 min Scan# 4374
Delta R.T. 0.04 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion:119 Resp: 32499
Ion Ratio Lower Upper
119 100
91 0.0 69.8 104.6#
134 0.0 15.9 23.9#





#67

sec-Butylbenzene

Concen: 0.187 ppbv m

RT: 17.37 min Scan# 4536

Delta R.T. 0.01 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampled :

SS-4-4

Tot Ion: 105 Resp: 36159

Ion Ratio Lower Upper

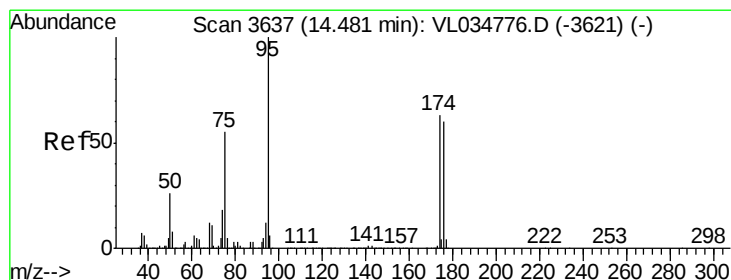
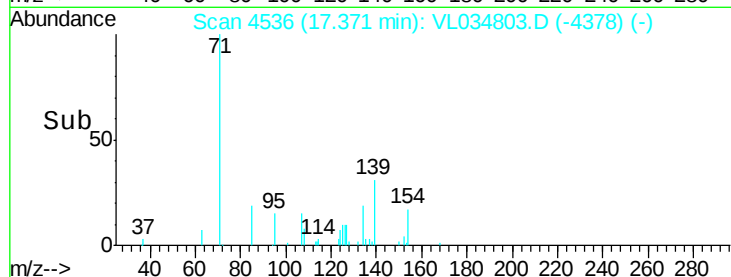
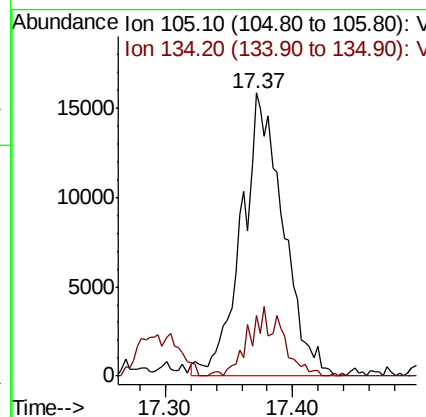
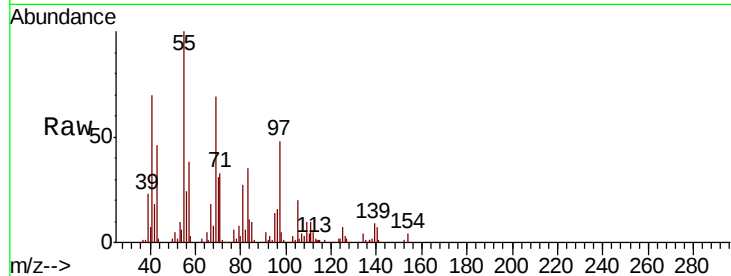
105 100

134 0.0 14.7 22.1#

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#68

1-Bromo-4-Fluorobenzene

Concen: 25.016 ppbv

RT: 14.56 min Scan# 3661

Delta R.T. 0.08 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

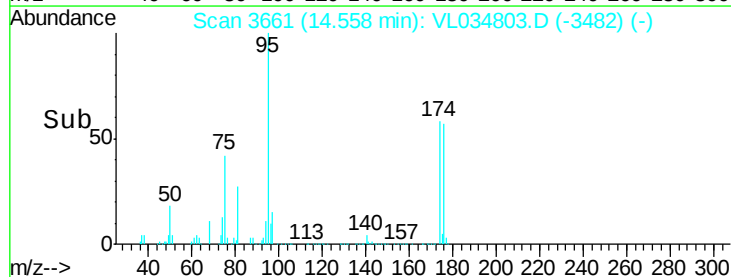
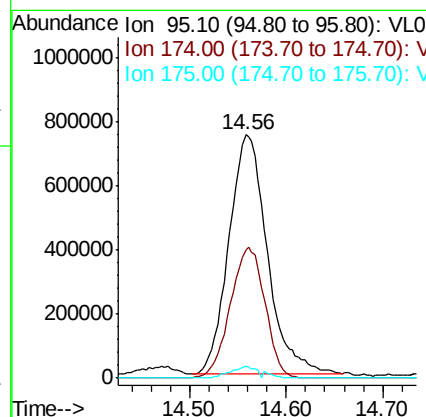
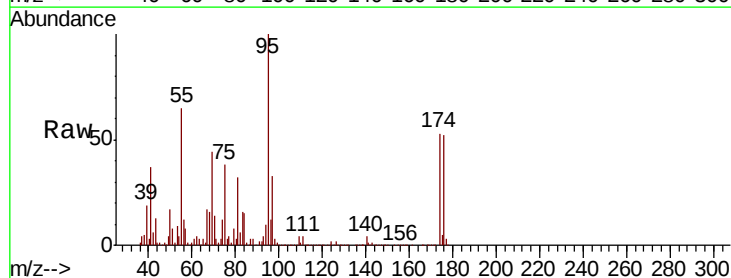
Tgt Ion: 95 Resp: 2065056

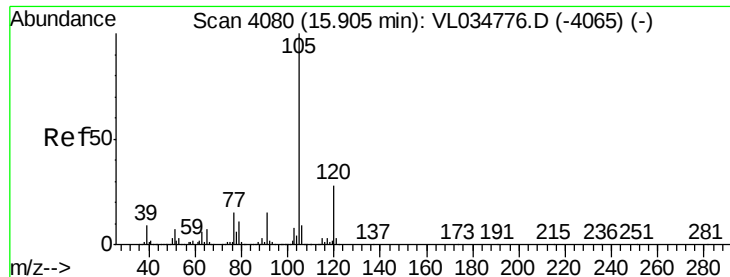
Ion Ratio Lower Upper

95 100

174 49.3 50.6 76.0#

175 3.8 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.987 ppbv m

RT: 15.95 min Scan# 4093

Delta R.T. 0.04 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

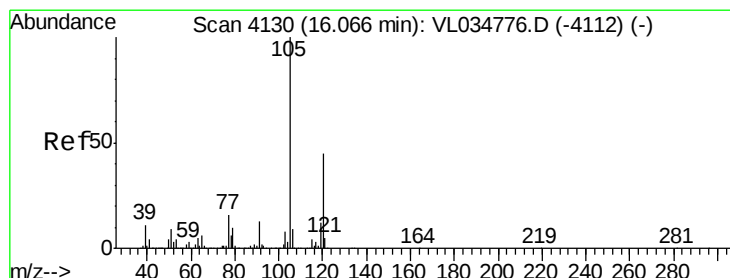
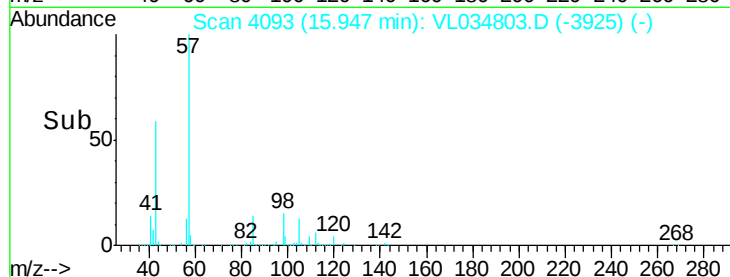
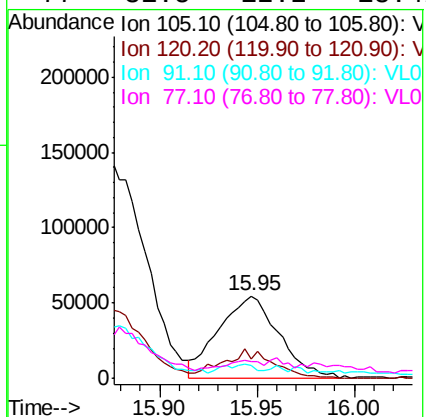
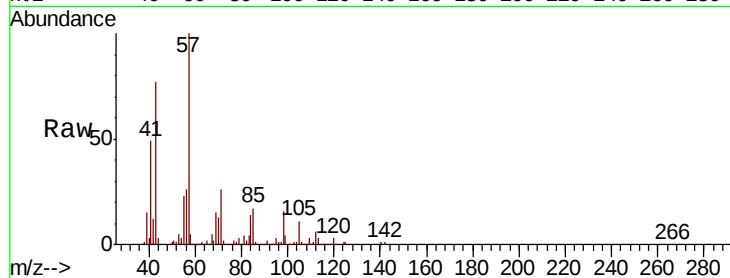
ClientSampleId :

SS-4-4

Tot Ion:	105	Resp:	117394
Ion Ratio	Lower	Upper	
105	100		
120	69.8	23.0	34.6#
91	22.7	11.1	16.7#
77	31.5	12.2	18.4#

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#73

1,3,5-Trimethylbenzene

Concen: 1.545 ppbv

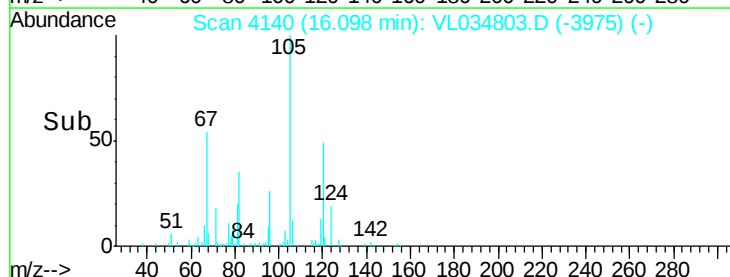
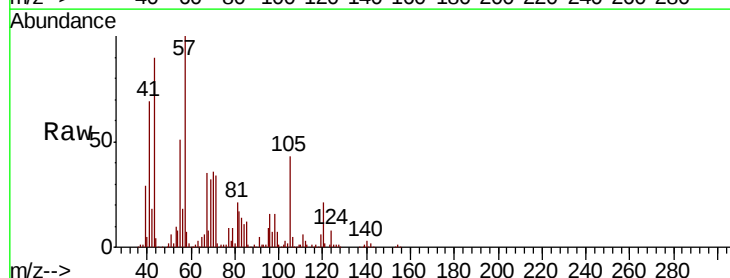
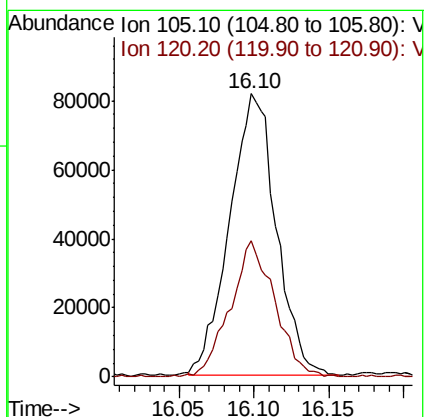
RT: 16.10 min Scan# 4140

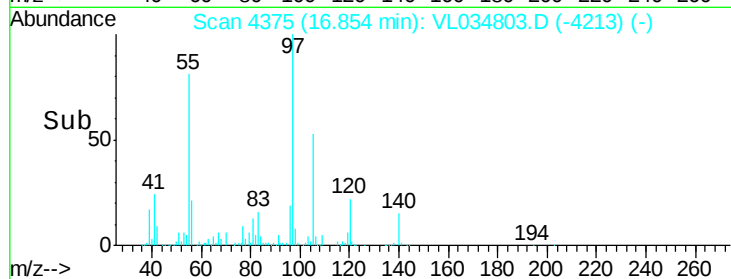
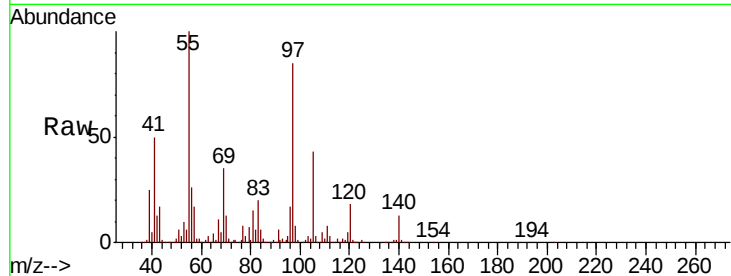
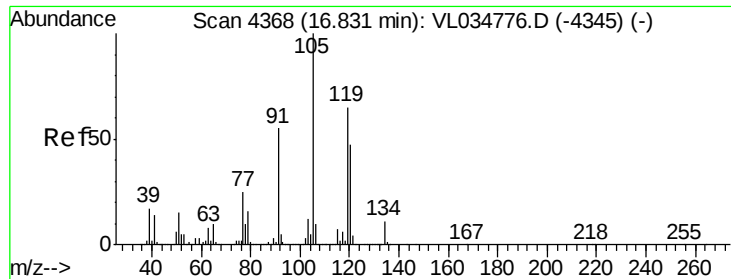
Delta R.T. 0.03 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion:	105	Resp:	176297
Ion Ratio	Lower	Upper	
105	100		
120	48.5	35.6	53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 1.710 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. 0.02 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.4	37.8	56.6
91	11.0	43.8	65.8#
77	15.6	19.9	29.9#

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