

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035450.D
 Acq On : 18 Aug 2020 20:28
 Operator : SY/AP
 Sample : L3725-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-01DL

Manual Integrations
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 8/20/2020 11:07:19 AM

Quant Time: Aug 19 11:10:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 18 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1134919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5165239	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5143483	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3743941	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds					Ovalue
9) Propene	3.01	41	72893	1.274 ppbv	93
11) Trichlorofluoromethane	3.96	101	40165	0.122 ppbv	94
13) Ethanol	3.61	45	577092	27.539 ppbv	98
15) Acetone	3.86	43	755749	5.785 ppbv #	81
19) Isopropyl Alcohol	3.98	45	29798	0.331 ppbv #	1
20) Methylene Chloride	4.35	84	81364	0.772 ppbv #	64
29) Chloroform	5.76	83	722188	2.506 ppbv	98
34) 2-Butanone	5.26	43	296790	1.720 ppbv #	70
36) Benzene	6.90	78	66240	0.175 ppbv #	86
38) Trichloroethene	7.85	130	26656	0.126 ppbv #	75
41) Tetrahydrofuran	6.08	42	21166m	0.222 ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	47434	0.192 ppbv #	80
52) Tetrachloroethene	11.24	164	8640m	0.037 ppbv	
53) Toluene	9.83	91	189889	0.389 ppbv	97
59) m/p-Xylene	12.99	91	121138m	0.231 ppbv	
60) o-Xylene	13.72	91	59966m	0.118 ppbv	
64) n-propylbenzene	15.60	120	33197m	0.129 ppbv	
69) p-Isopropyltoluene	17.68	119	205702	0.217 ppbv #	90
72) 4-Ethyltoluene	15.87	105	191472	0.286 ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	119704	0.192 ppbv #	84
74) 1,2,4-Trimethylbenzene	16.79	105	353474	0.522 ppbv #	69

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

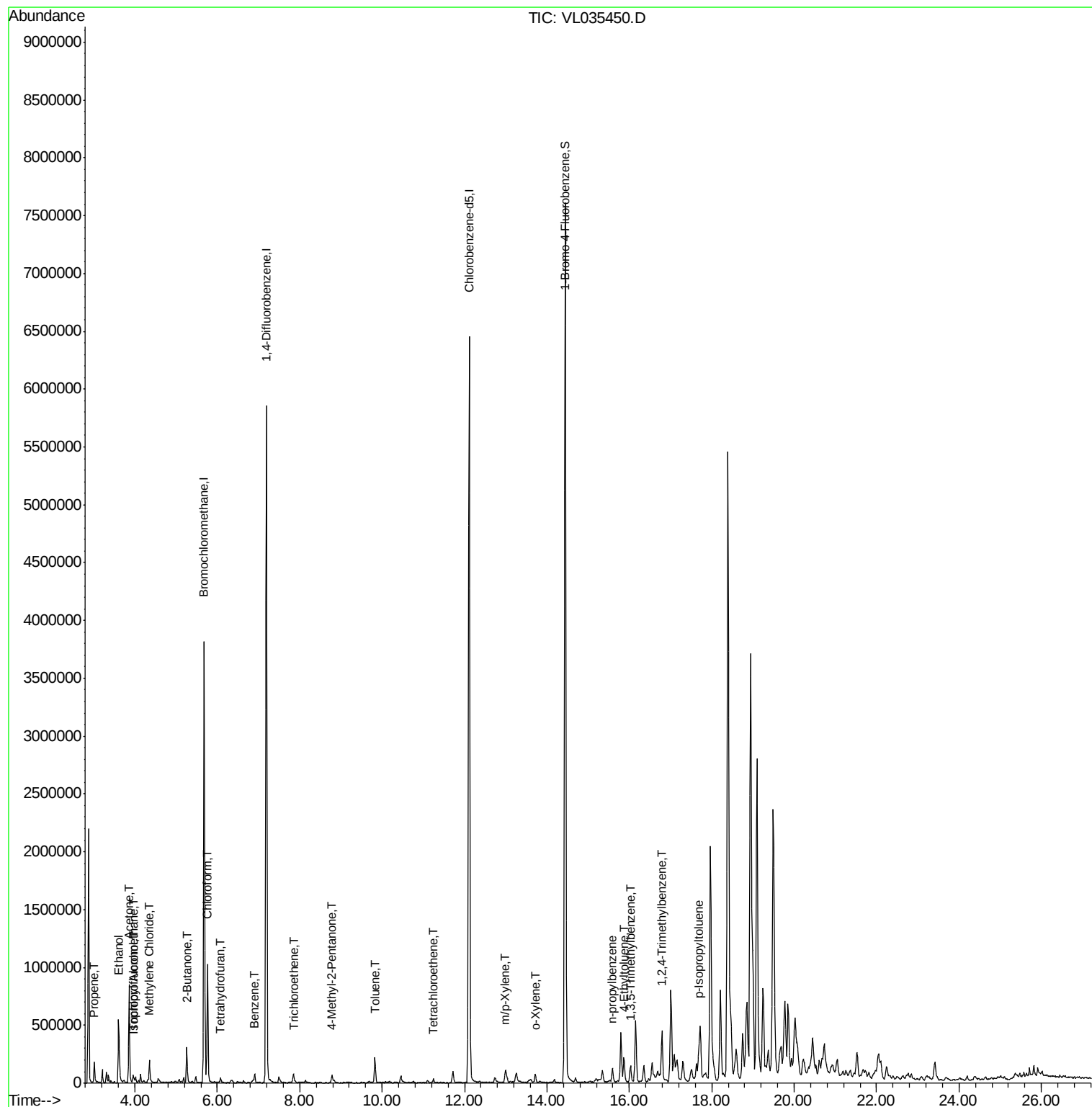
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081820\
Data File : VL035450.D
Acq On : 18 Aug 2020 20:28
Operator : SY/AP
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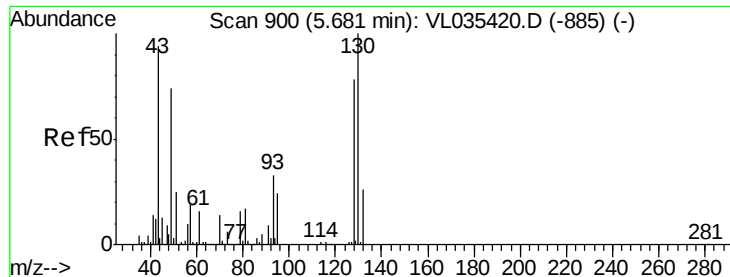
Instrument :
MSVOA_L
ClientSampleId :
SS-01DL

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Quant Time: Aug 19 11:10:31 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

SS-01DL

Tot Ion: 49 Resp: 1134919

Ion Ratio Lower Upper

49 100

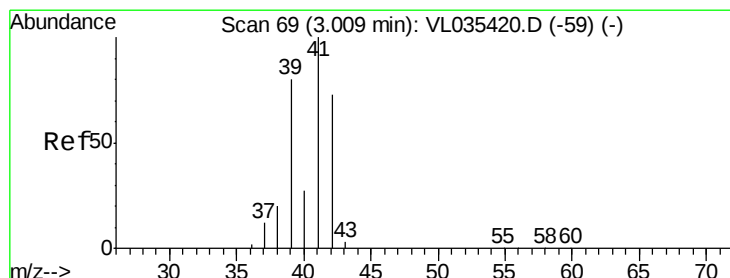
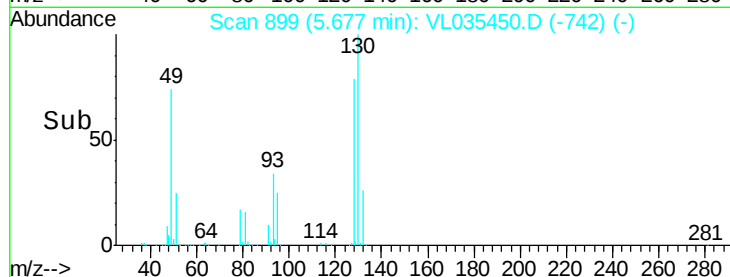
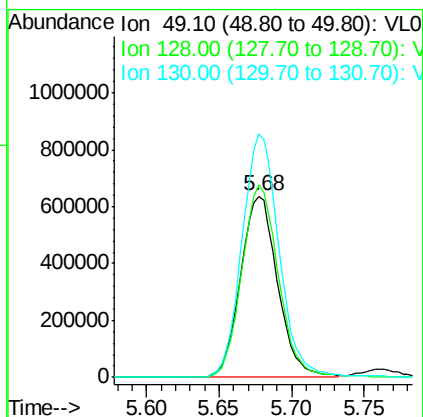
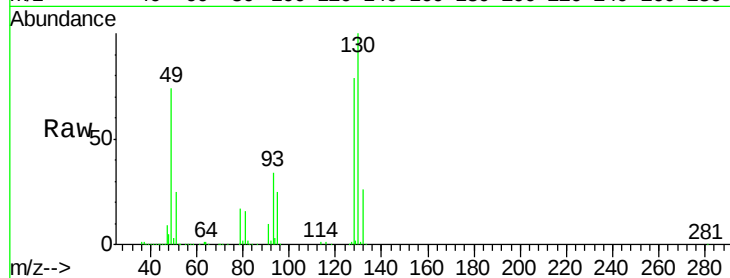
128 105.8 20.9 62.7#

130 135.1 26.7 80.1#

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#9

Propene

Concen: 1.274 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035450.D

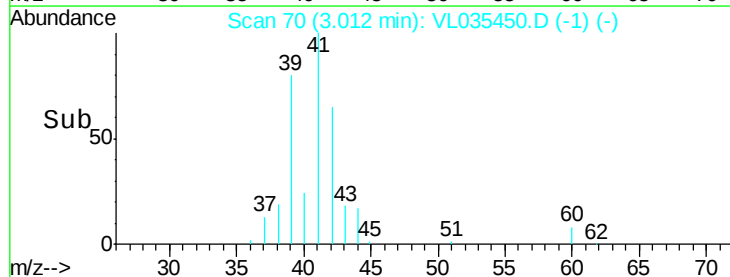
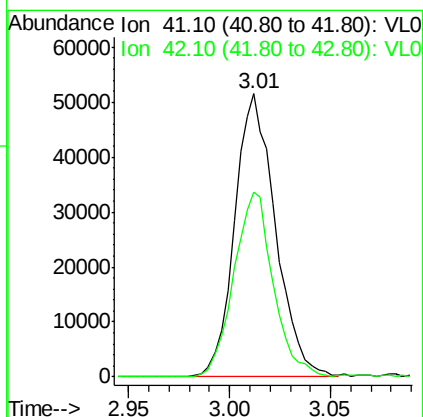
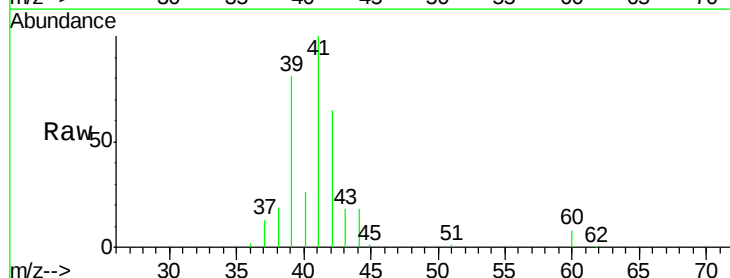
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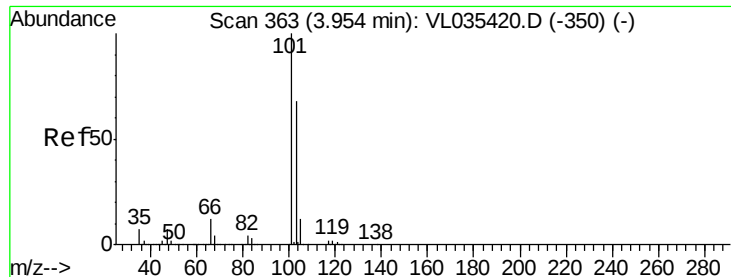
Tgt Ion: 41 Resp: 72893

Ion Ratio Lower Upper

41 100

42 64.0 55.5 83.3





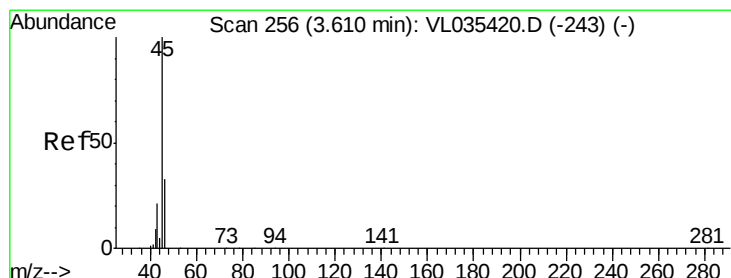
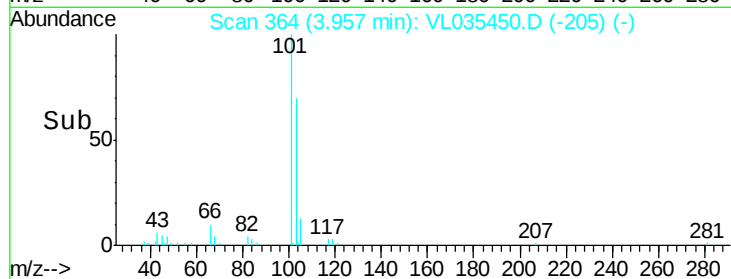
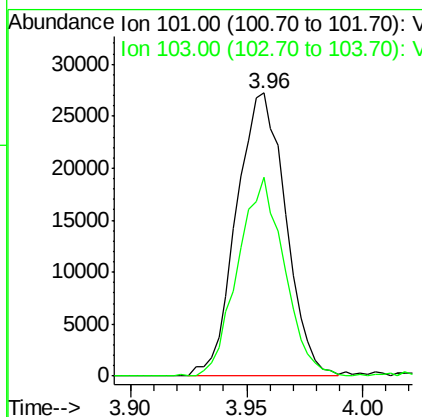
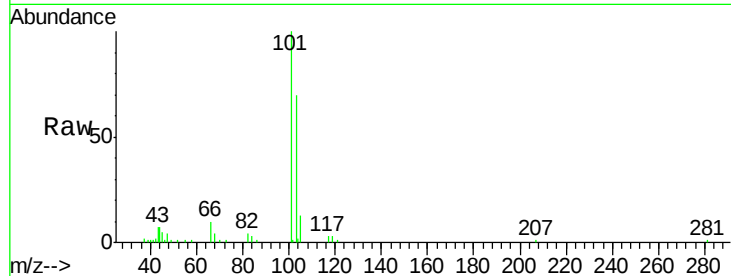
#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Instrument :
MSVOA_L
ClientSampleId :
SS-01DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.2	52.6	78.8

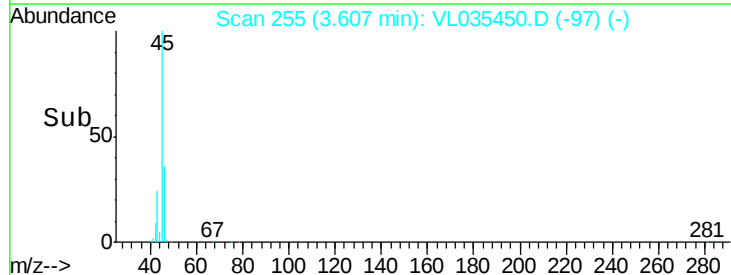
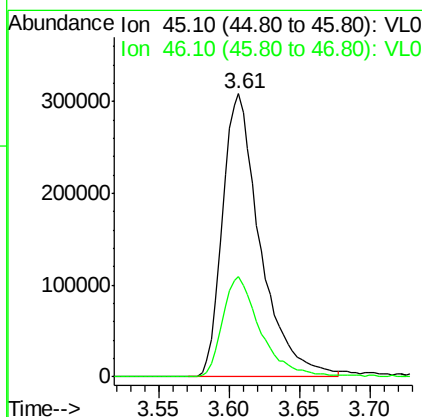
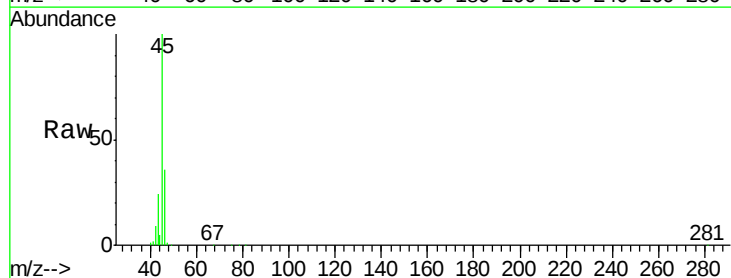
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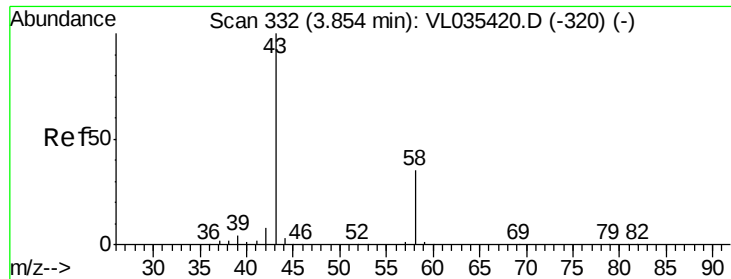
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#13
Ethanol
Concen: 27.539 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.3	14.2	56.6





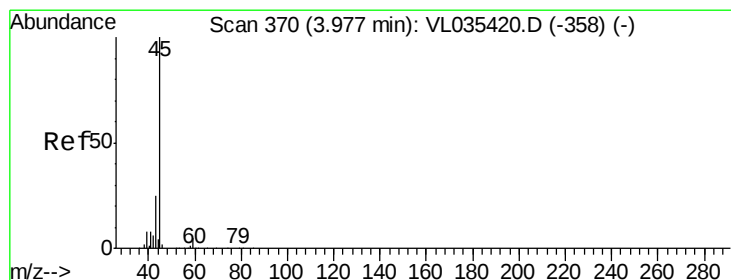
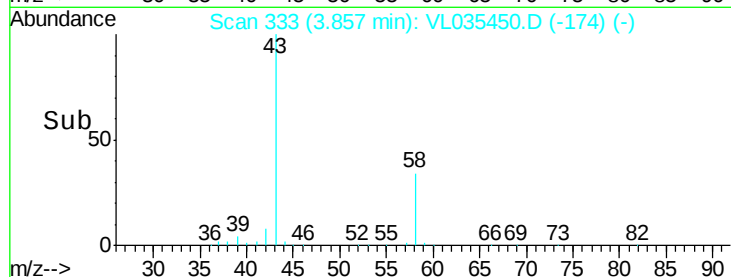
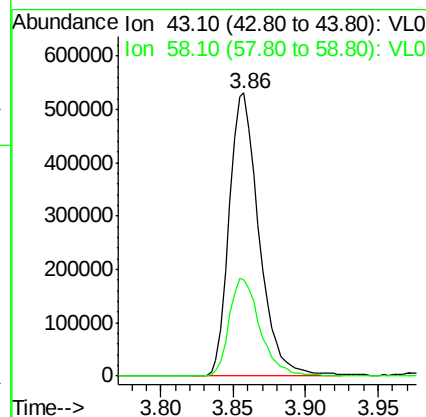
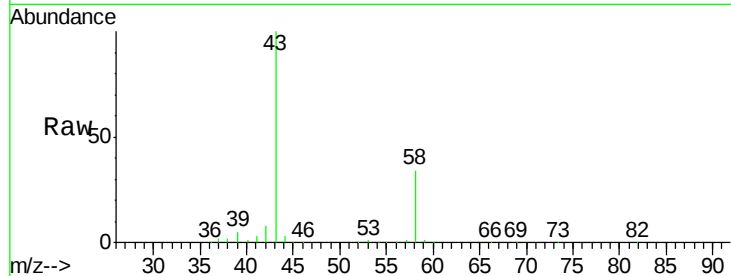
#15
Acetone
Concen: 5.785 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-01DL

Tot Ion: 43 Resp: 755749
Ion Ratio Lower Upper
43 100
58 36.0 21.0 31.6#

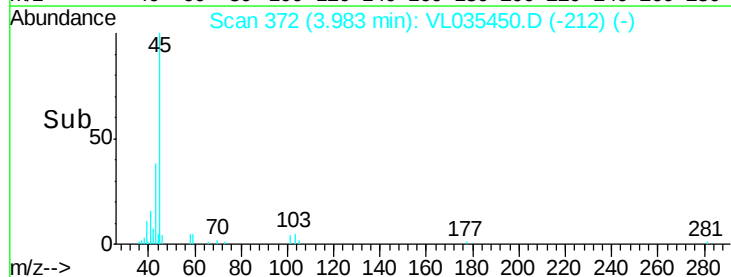
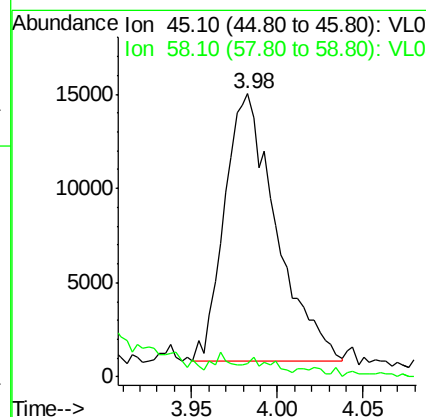
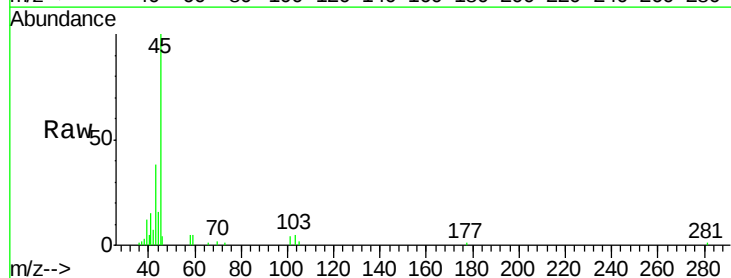
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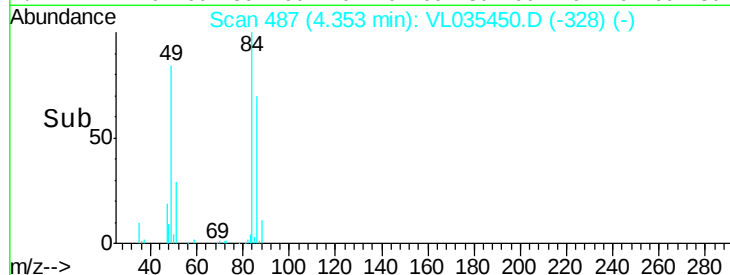
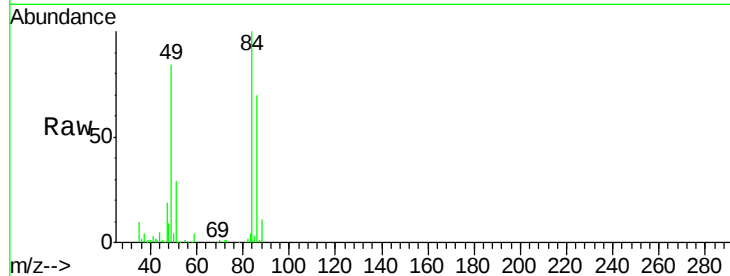
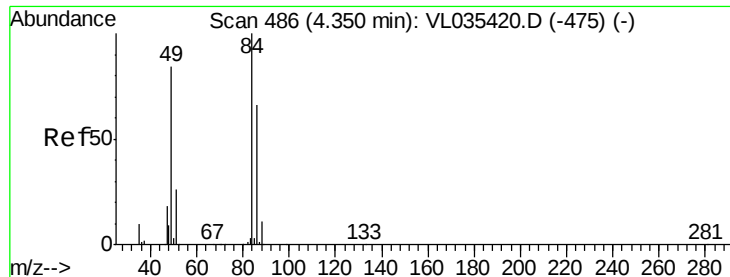
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#19
Isopropyl Alcohol
Concen: 0.331 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion: 45 Resp: 29798
Ion Ratio Lower Upper
45 100
58 911.8 1.0 1.6#





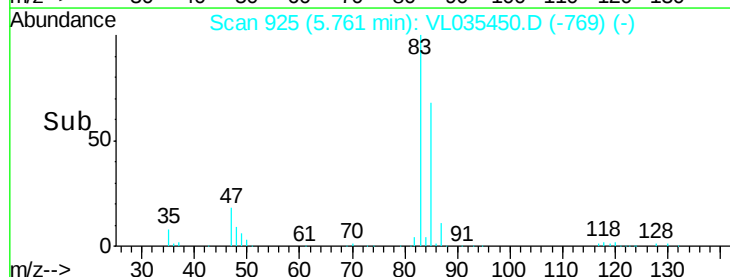
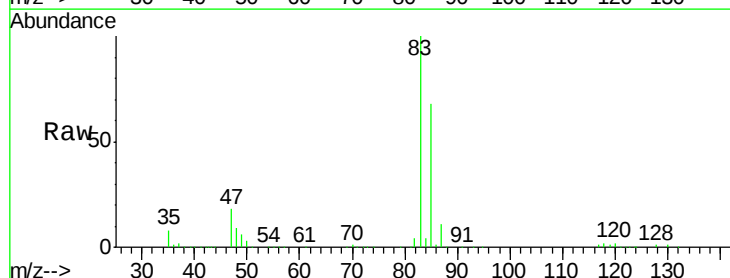
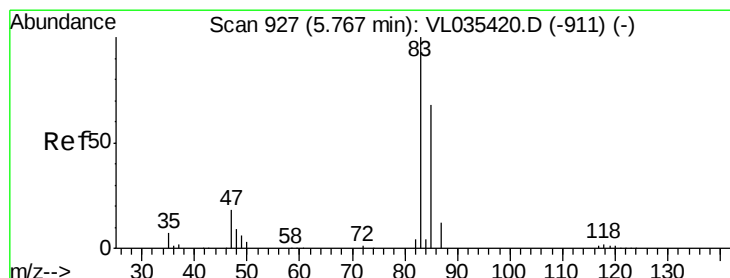
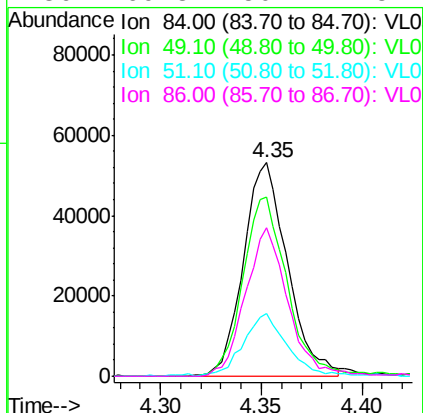
#20
Methvlene Chloride
Concen: 0.772 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	84	100	81364		
49	49	83.6	118.6	177.8#	
51	51	28.3	36.4	54.6#	
86	86	69.8	50.2	75.4	

Instrument :
MSVOA_L
ClientSampleId :
SS-01DL

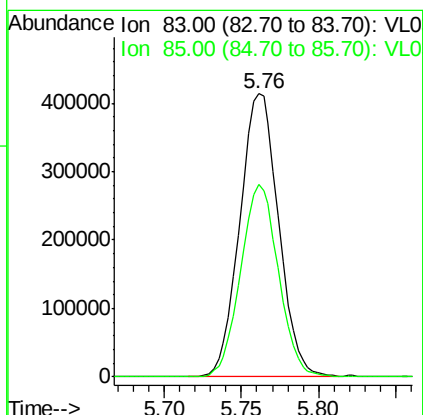
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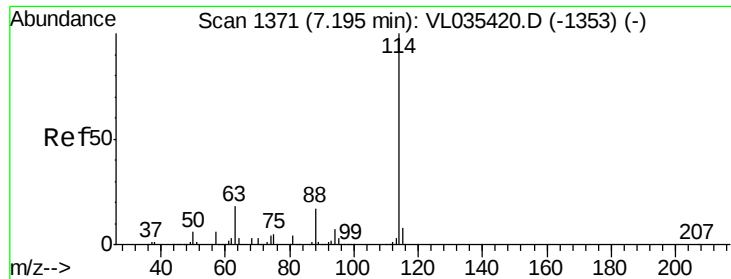
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#29
Chloroform
Concen: 2.506 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.00 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	83	100	722188		
85	85	67.8	52.7	79.1	





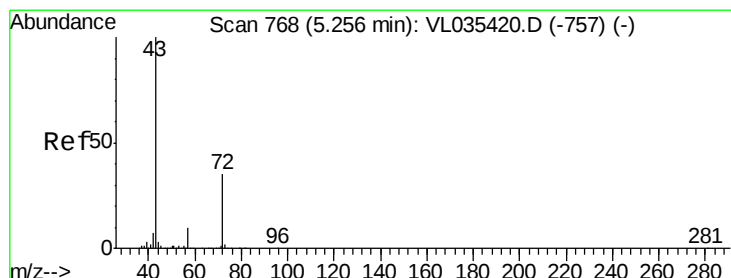
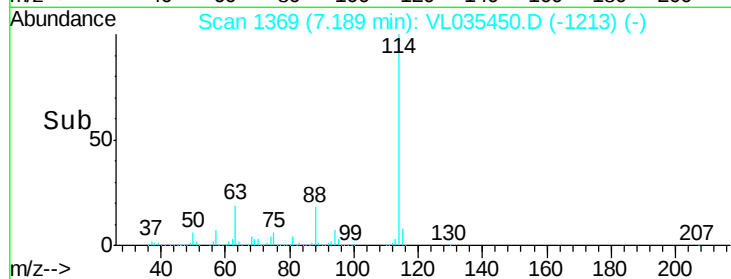
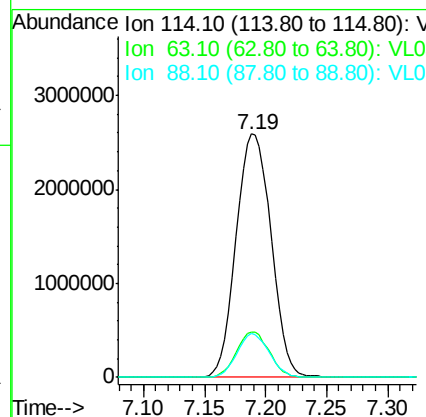
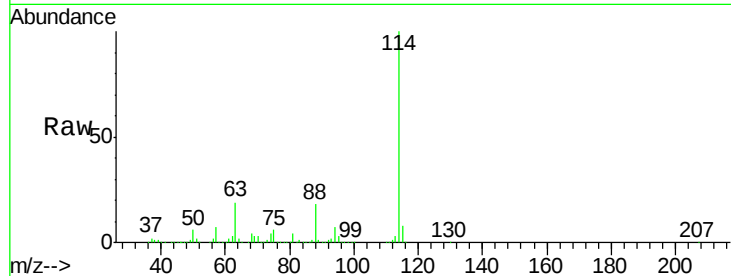
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VL035450.D
 Acq: 18 Aug 2020 20:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-01DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.6	23.1	34.7#
88	16.6	15.9	23.9

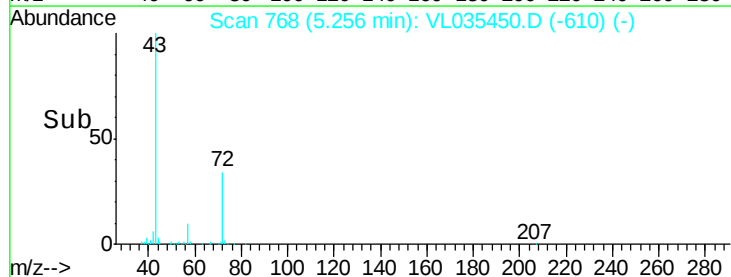
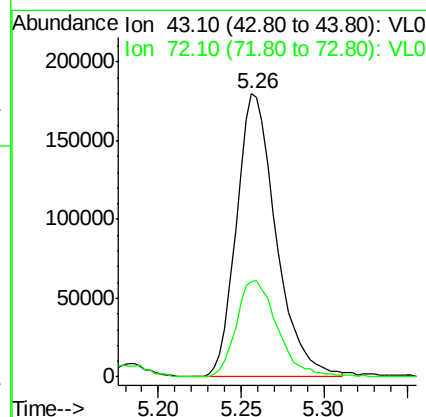
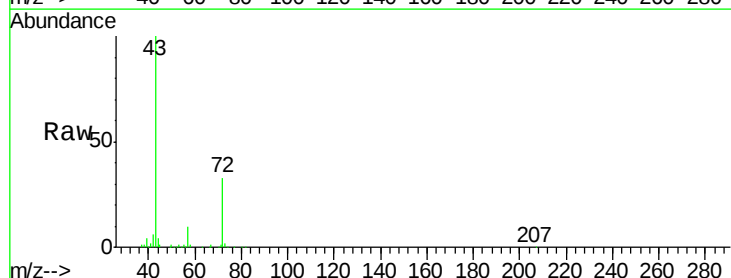
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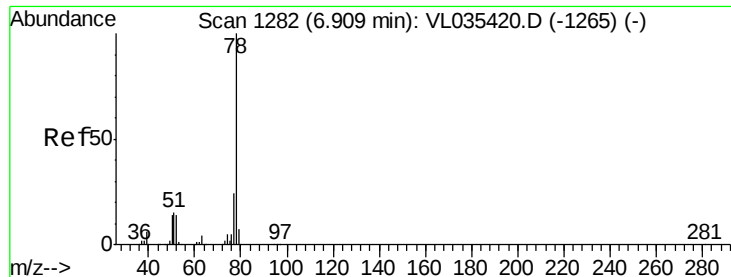
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#34
 2-Butanone
 Concen: 1.720 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL035450.D
 Acq: 18 Aug 2020 20:28

Tgt Ion	Ratio	Lower	Upper
43	100		
72	36.1	17.6	26.4#





#36

Benzene

Concen: 0.175 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Instrument :

MSVOA_L

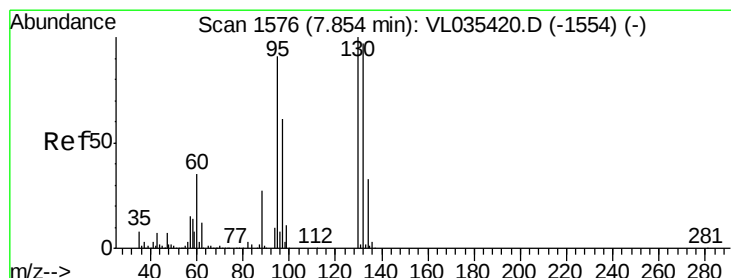
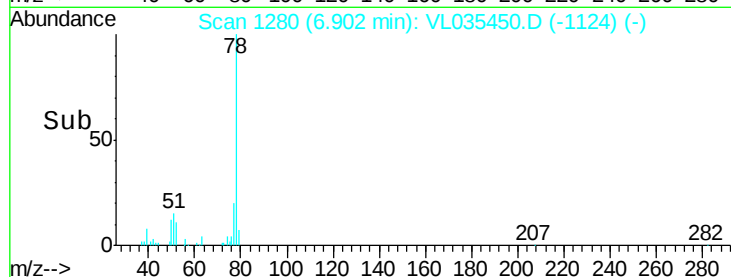
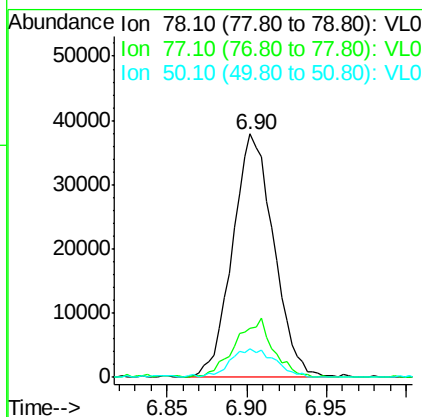
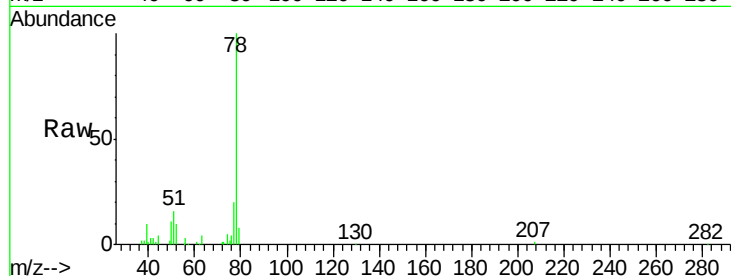
ClientSampleId :

SS-01DL

Tot Ion:	78	Resp:	66240
Ion Ratio	Lower	Upper	
78	100		
77	20.0	19.6	29.4
50	11.5	16.3	24.5#

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#38

Trichloroethene

Concen: 0.126 ppbv

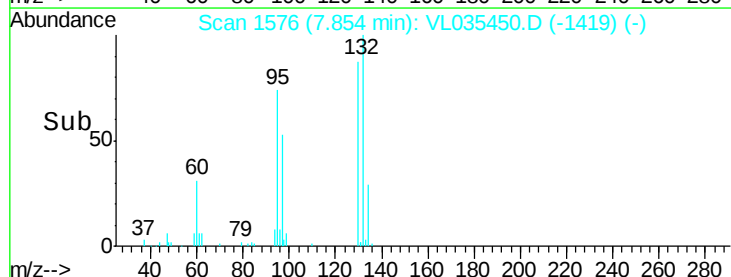
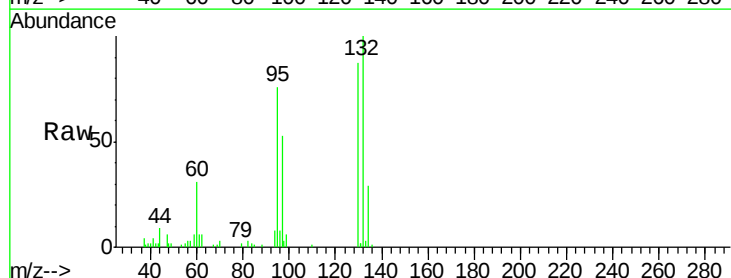
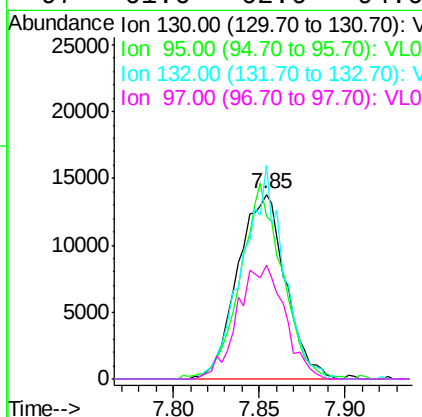
RT: 7.85 min Scan# 1576

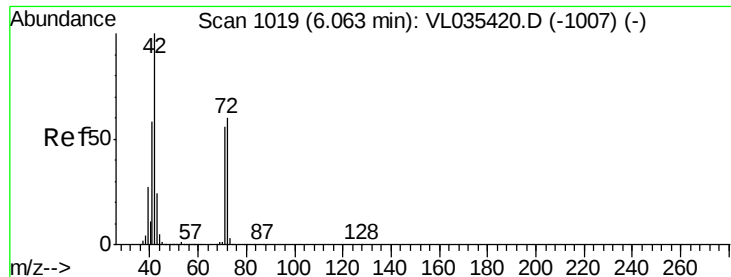
Delta R.T. 0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Tgt Ion:	130	Resp:	26656
Ion Ratio	Lower	Upper	
130	100		
95	86.4	95.8	143.8#
132	115.5	74.3	111.5#
97	61.6	62.6	94.0#





#41

Tetrahydrofuran

Concen: 0.222 ppbv m

RT: 6.08 min Scan# 1024

Delta R.T. 0.02 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Instrument :

MSVOA_L

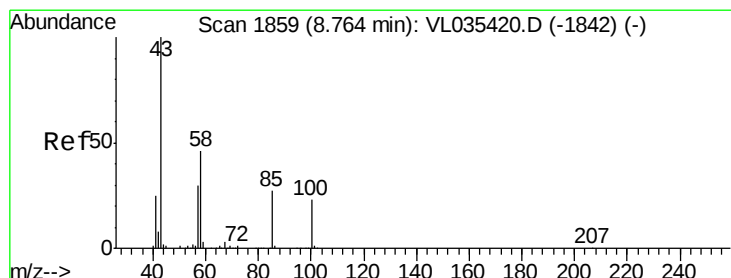
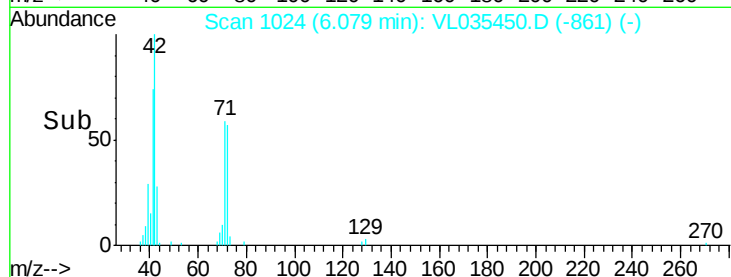
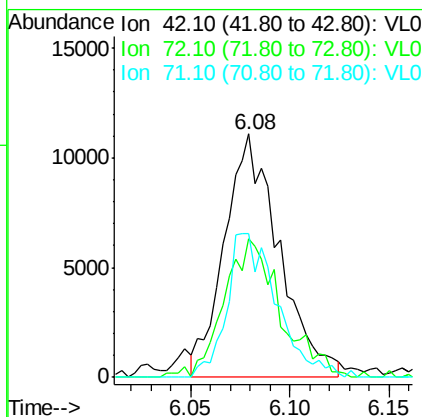
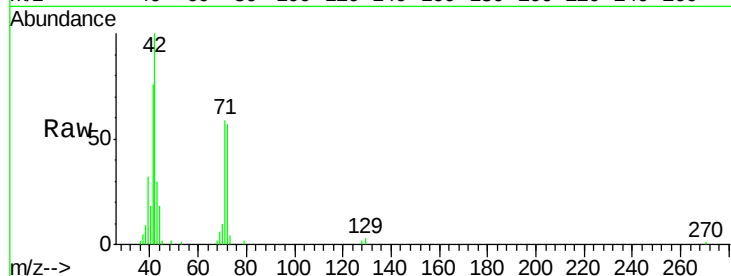
ClientSampled :

SS-01DL

Tot Ion:	42	Resp:	21166
Ion Ratio	Lower	Upper	
42	100		
72	0.0	29.4	44.2#
71	0.0	28.9	43.3#

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#50

4-Methyl-2-Pentanone

Concen: 0.192 ppbv

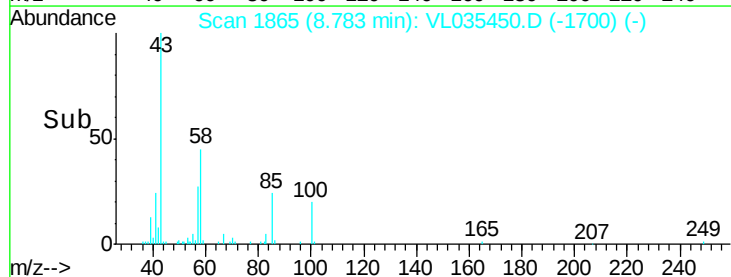
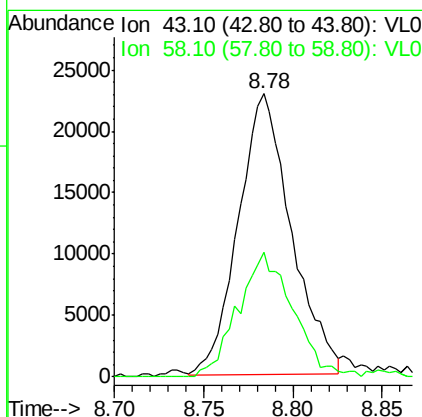
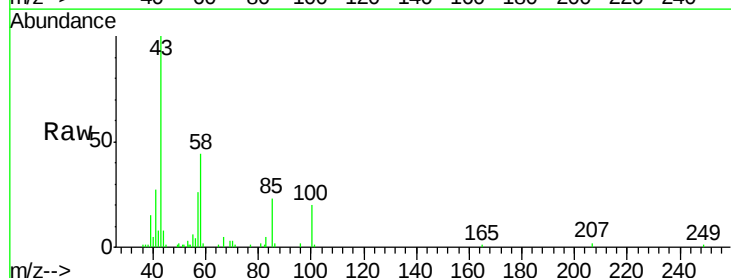
RT: 8.78 min Scan# 1865

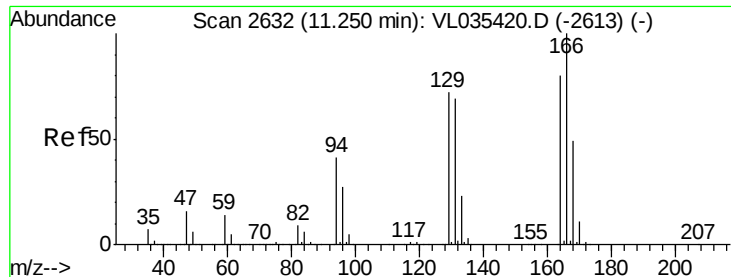
Delta R.T. 0.03 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Tgt Ion:	43	Resp:	47434
Ion Ratio	Lower	Upper	
43	100		
58	47.6	28.7	43.1#





#52

Tetrachloroethene

Concen: 0.037 ppbv m

RT: 11.24 min Scan# 2629

Delta R.T. -0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

SS-01DL

Tot Ion:164 Resp: 8640

Ion Ratio Lower Upper

164 100

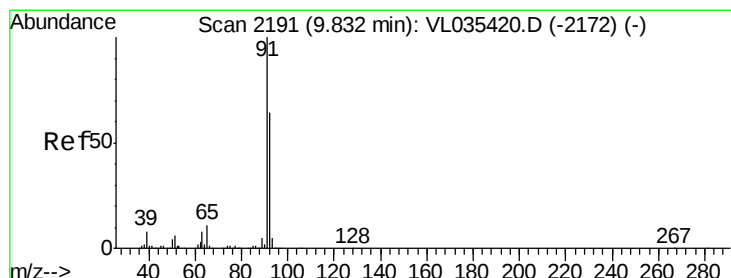
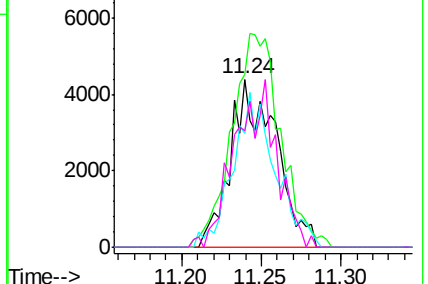
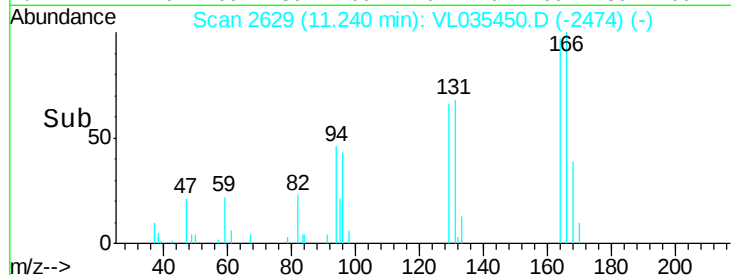
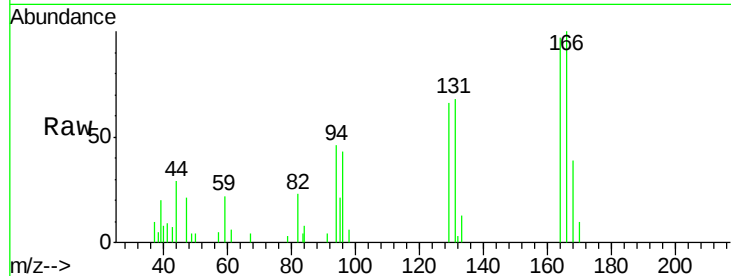
166 102.8 103.4 155.0#

129 67.5 90.2 135.4#

131 69.6 91.7 137.5#

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#53

Toluene

Concen: 0.389 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035450.D

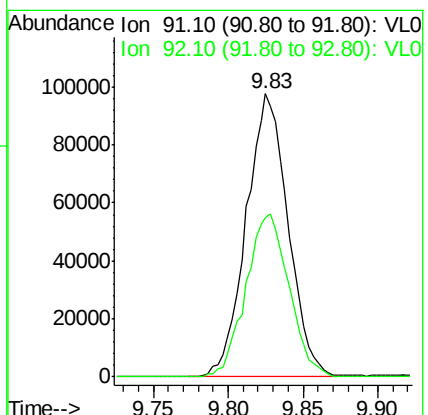
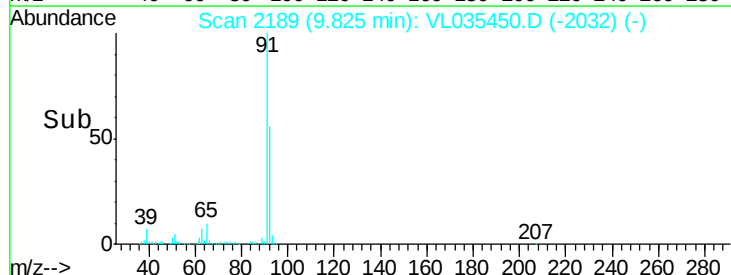
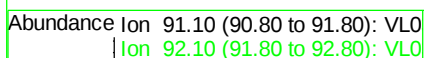
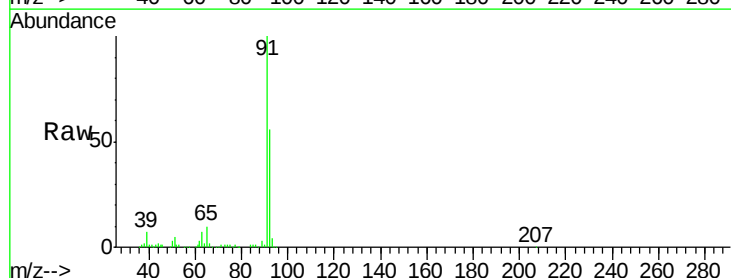
Acq: 18 Aug 2020 20:28

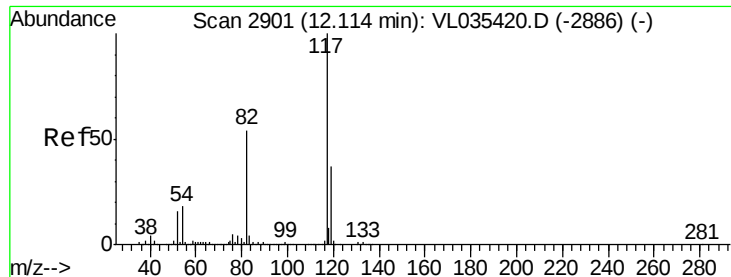
Tgt Ion: 91 Resp: 189889

Ion Ratio Lower Upper

91 100

92 59.3 49.1 73.7





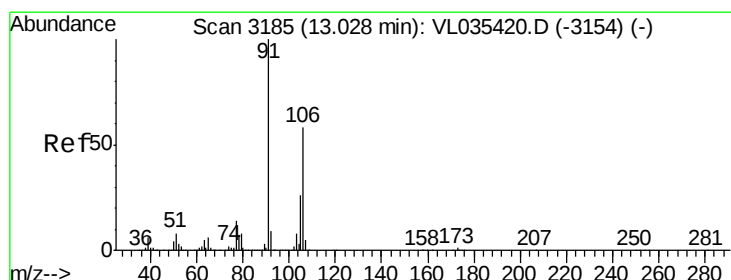
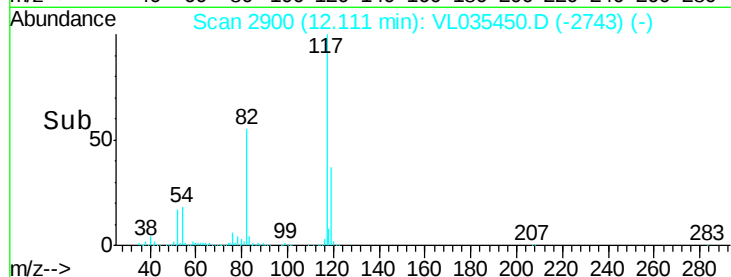
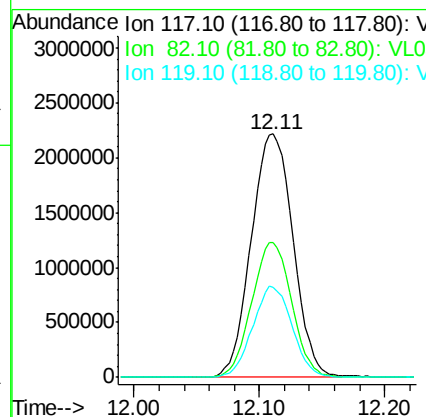
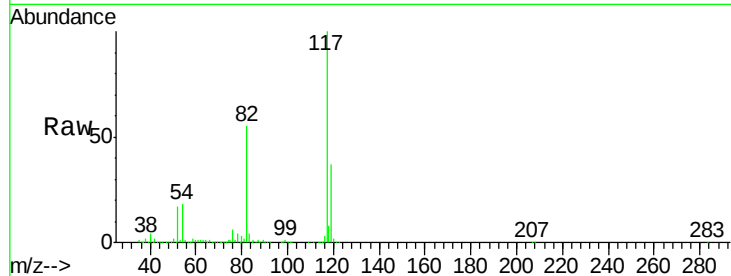
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-01DL

Tot Ion:117 Resp: 5143483
Ion Ratio Lower Upper
117 100
82 53.4 57.4 86.0#
119 35.6 28.4 42.6

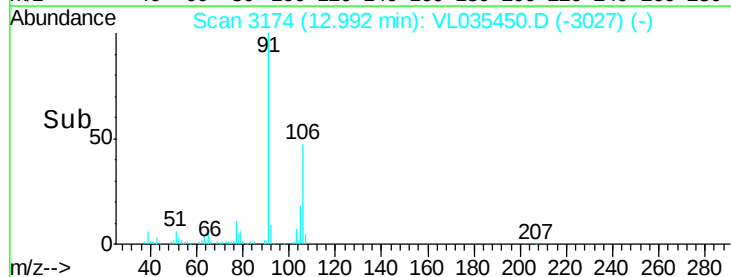
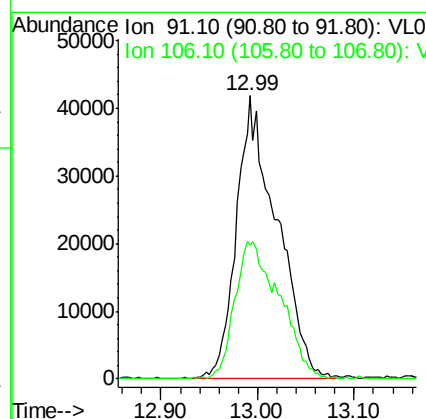
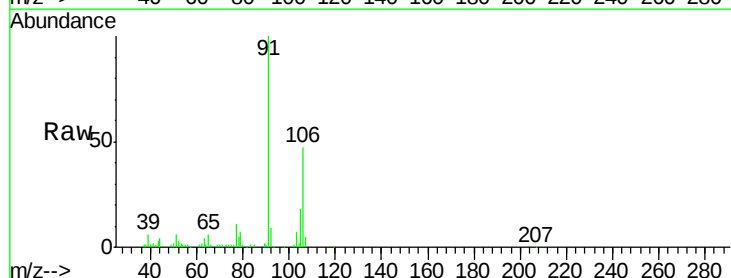
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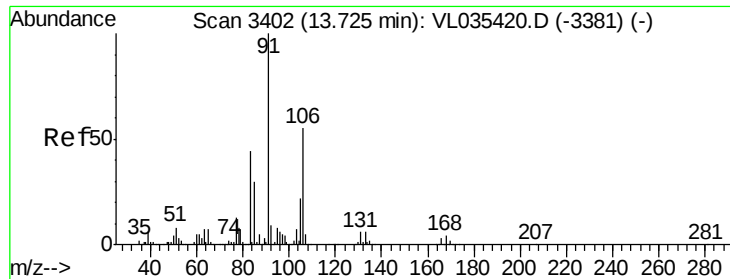
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#59
m/p-Xylene
Concen: 0.231 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion: 91 Resp: 121138
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#





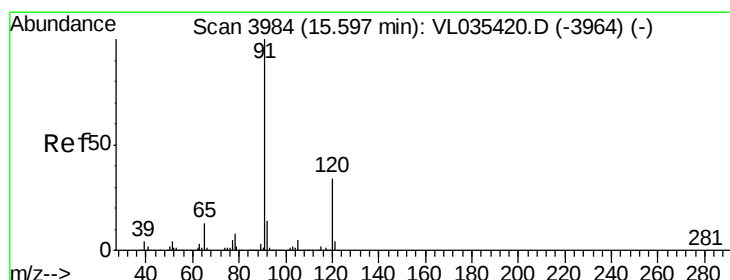
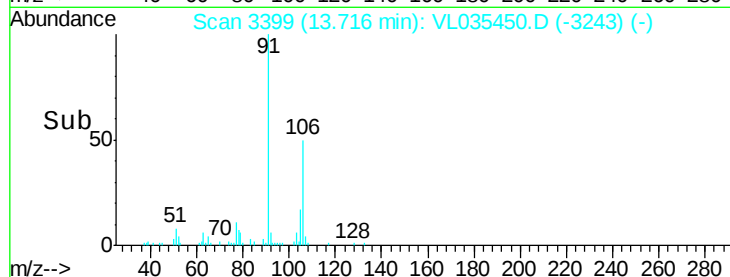
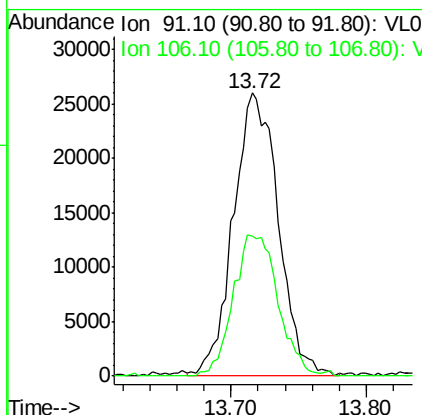
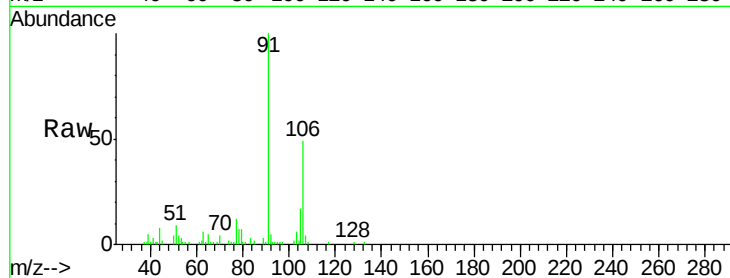
#60
o-Xylene
Concen: 0.118 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. 0.00 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-01DL

Tot Ion: 91 Resp: 59966
Ion Ratio Lower Upper
91 100
106 49.8 21.8 65.3

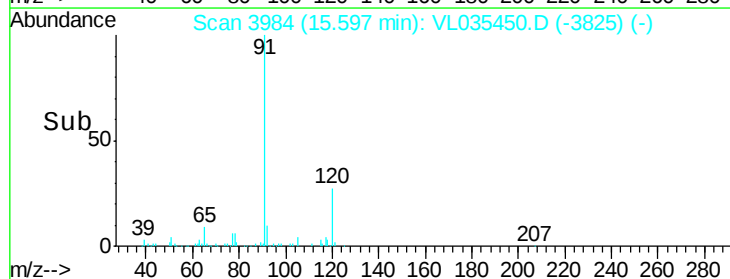
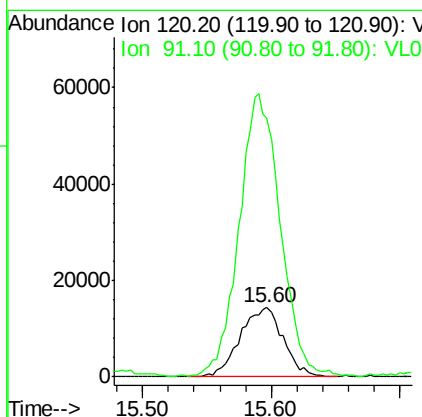
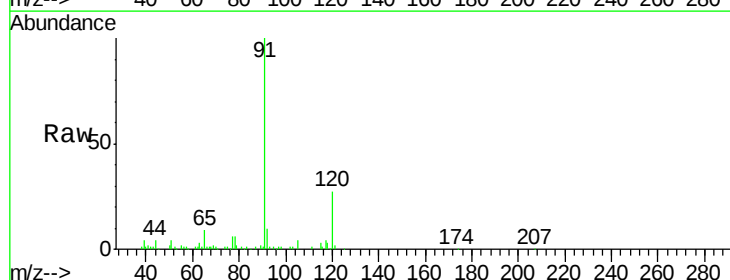
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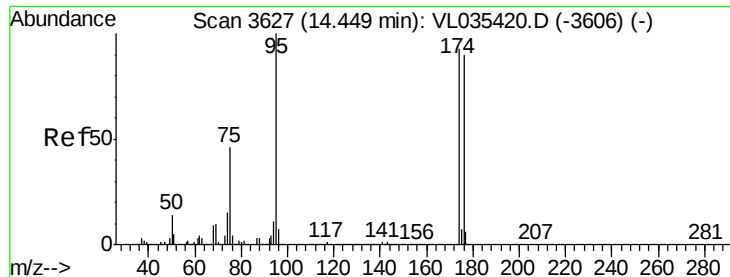
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#64
n-propylbenzene
Concen: 0.129 ppbv m
RT: 15.60 min Scan# 3984
Delta R.T. 0.01 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion: 120 Resp: 33197
Ion Ratio Lower Upper
120 100
91 389.6 385.5 578.3





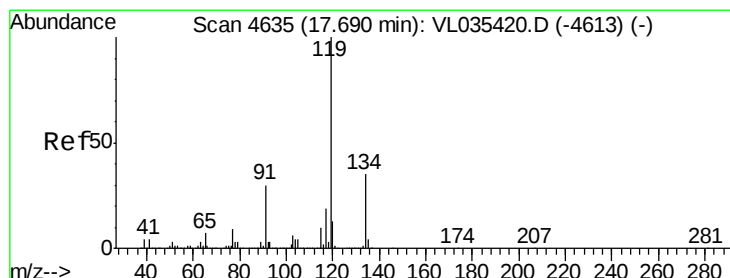
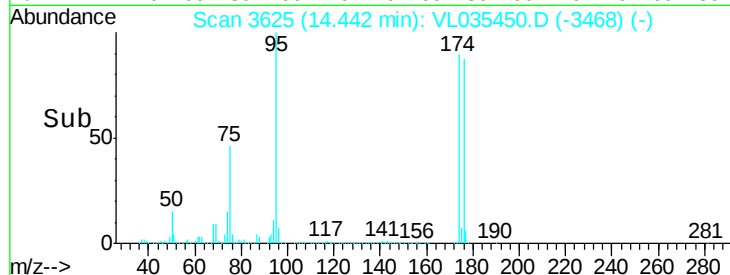
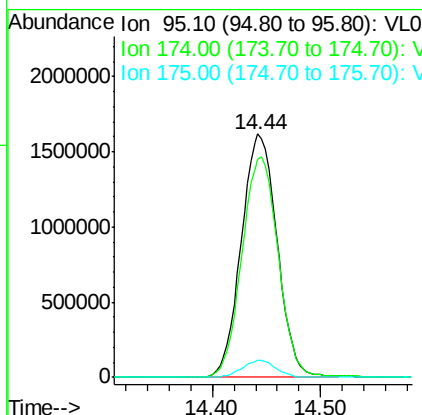
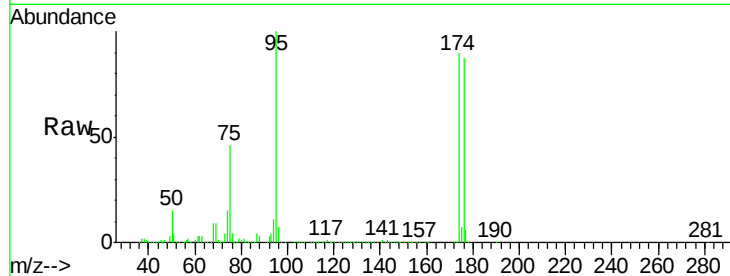
#68
1-Bromo-4-Fluorobenzene
Concen: 10.397 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Instrument :
MSVOA_L
ClientSampleId :
SS-01DL

Tot Ion: 95 Resp: 3743941
Ion Ratio Lower Upper
95 100
174 91.7 44.0 66.0#
175 6.7 3.2 4.8#

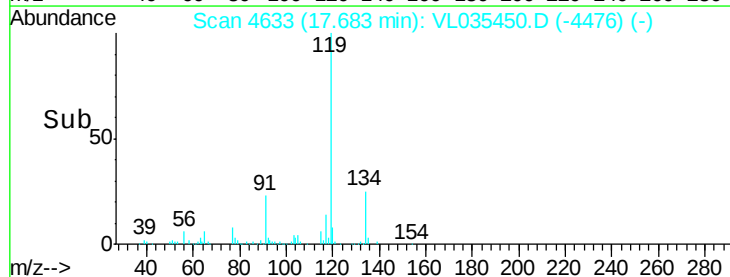
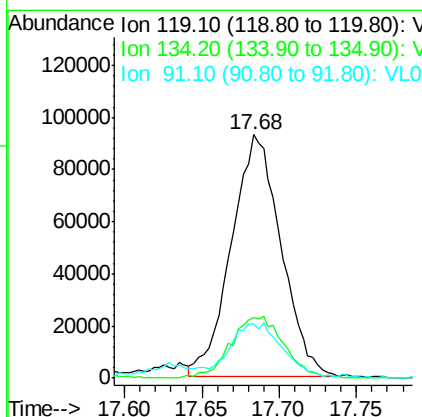
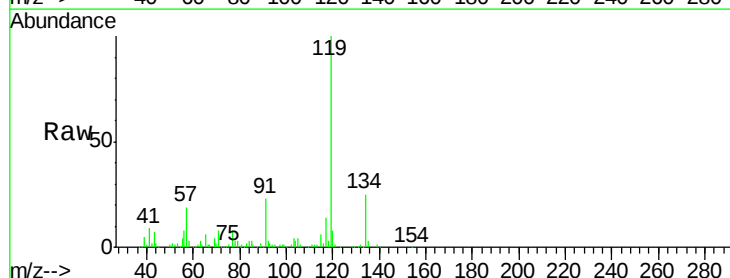
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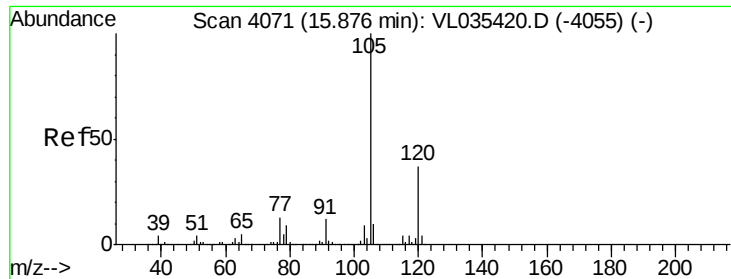
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#69
p-Isopropyltoluene
Concen: 0.217 ppbv
RT: 17.68 min Scan# 4633
Delta R.T. 0.00 min
Lab File: VL035450.D
Acq: 18 Aug 2020 20:28

Tgt Ion: 119 Resp: 205702
Ion Ratio Lower Upper
119 100
134 27.5 20.6 30.8
91 24.7 26.6 39.8#





#72

4-Ethyltoluene

Concen: 0.286 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. 0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Instrument :

MSVOA_L

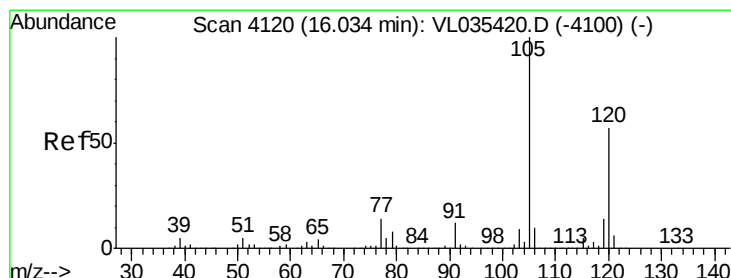
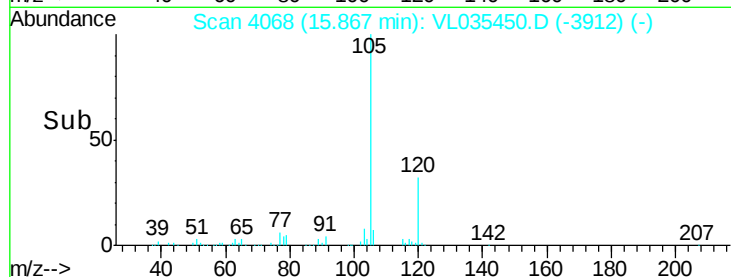
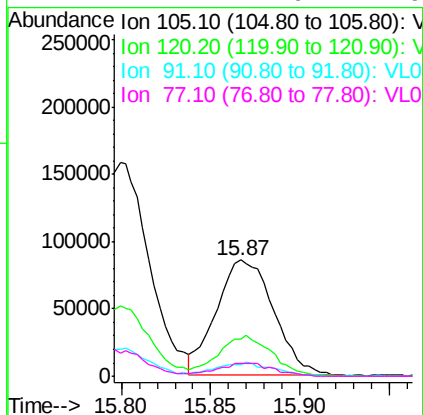
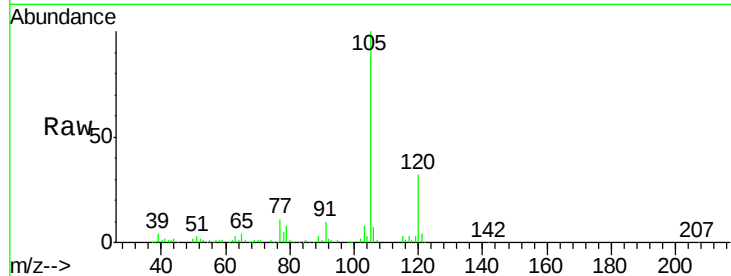
ClientSampled :

SS-01DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	191472		
120	120	33.9	22.7	34.1	
91	91	12.3	10.8	16.2	
77	77	11.4	11.9	17.9	

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#73

1,3,5-Trimethylbenzene

Concen: 0.192 ppbv

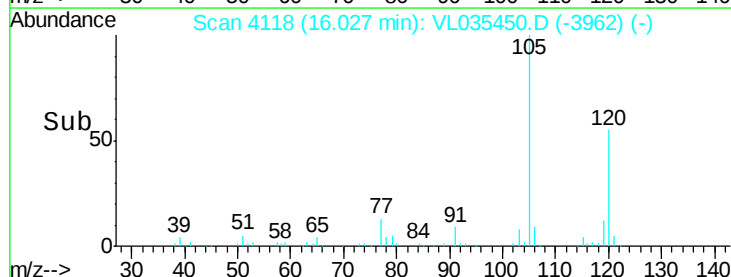
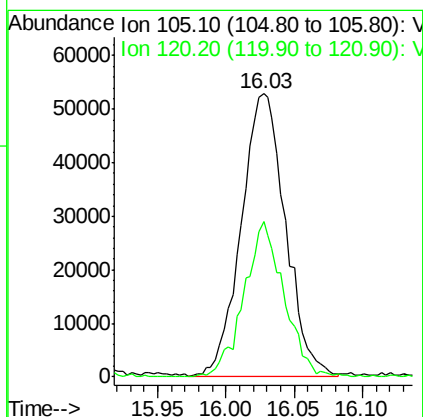
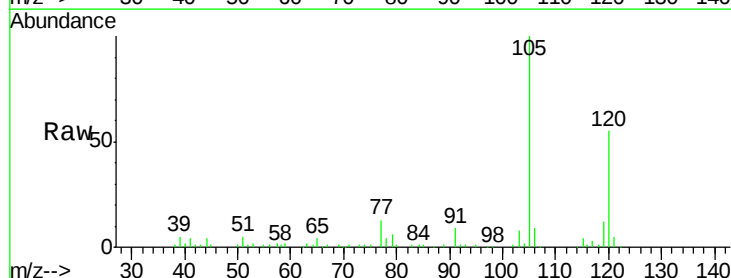
RT: 16.03 min Scan# 4118

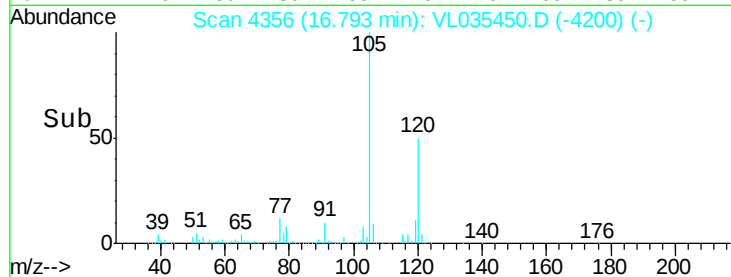
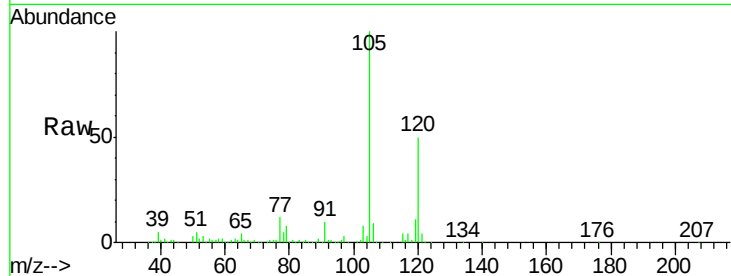
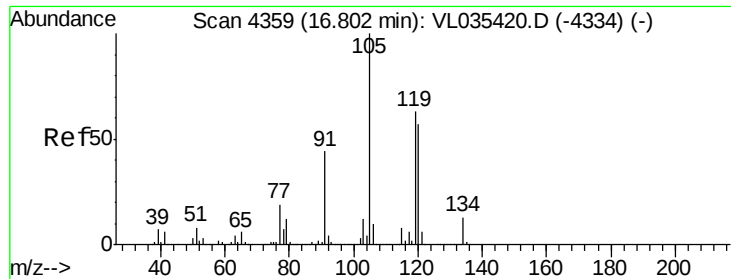
Delta R.T. 0.00 min

Lab File: VL035450.D

Acq: 18 Aug 2020 20:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	119704		
120	120	54.9	35.6	53.4	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.522 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. 0.00 min
 Lab File: VL035450.D
 Acq: 18 Aug 2020 20:28

Instrument :
 MSVOA_L
 ClientSampleID :
 SS-01DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	50.0	37.8	56.8
91	9.8	40.0	60.0#
77	11.4	18.8	28.2#

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