

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036076.D
 Acq On : 7 Dec 2020 22:26
 Operator : SY/AP
 Sample : L4949-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Manual Integrations
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 12/11/2020 5:45:14 PM

Quant Time: Dec 08 21:18:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1283704	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2912792	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2568397	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2138135	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	115561	1.575	ppbv #	70
10) Heptane	8.14	43	80879m	0.432	ppbv	
13) Ethanol	3.62	45	87024m	8.604	ppbv	
15) Acetone	3.85	43	2209784	14.323	ppbv	96
19) Isopropyl Alcohol	3.99	45	748413m	7.937	ppbv	
20) Methylene Chloride	4.36	84	63799m	1.009	ppbv	
25) Ethyl Acetate	5.69	43	1603727	5.203	ppbv #	90
30) Cyclohexane	7.15	84	19483m	0.191	ppbv	
34) 2-Butanone	5.26	43	530234	2.744	ppbv	99
36) Benzene	6.92	78	48288m	0.196	ppbv	
41) Tetrahydrofuran	6.07	42	169103m	1.473	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	191516m	0.428	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	115205m	0.400	ppbv	
52) Tetrachloroethene	11.25	164	5153m	0.058	ppbv	
53) Toluene	9.83	91	6663868	24.041	ppbv	96
58) Ethyl Benzene	12.74	91	297289	0.845	ppbv	97
59) m/p-Xylene	12.99	91	847540m	2.859	ppbv	
60) o-Xylene	13.72	91	264138m	0.946	ppbv	
61) Styrene	13.56	104	88094m	0.491	ppbv	
72) 4-Ethyltoluene	15.86	105	67008m	0.221	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	87343m	0.301	ppbv	

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

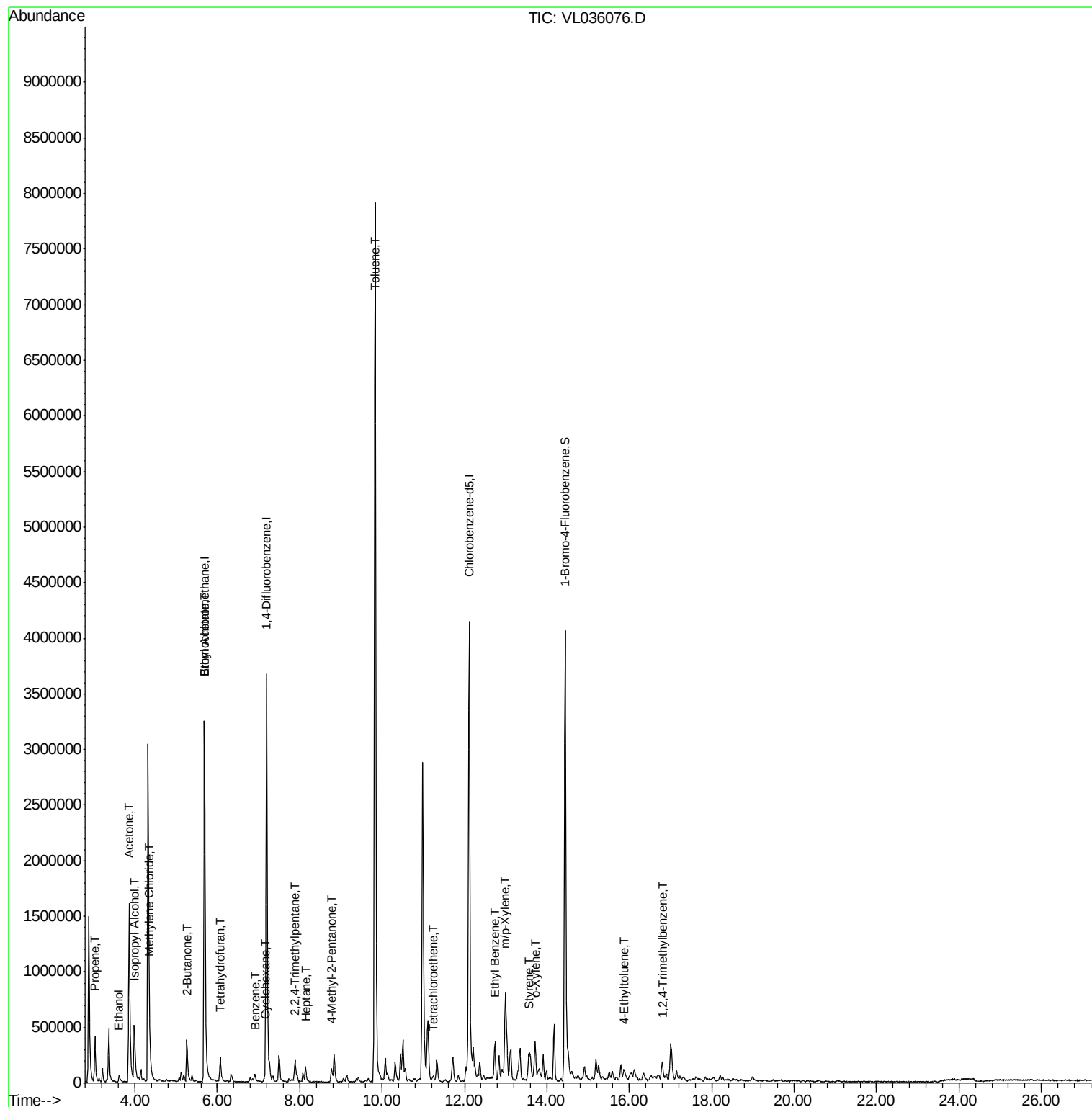
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120720\
Data File : VL036076.D
Acq On : 7 Dec 2020 22:26
Operator : SY/AP
Sample : L4949-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

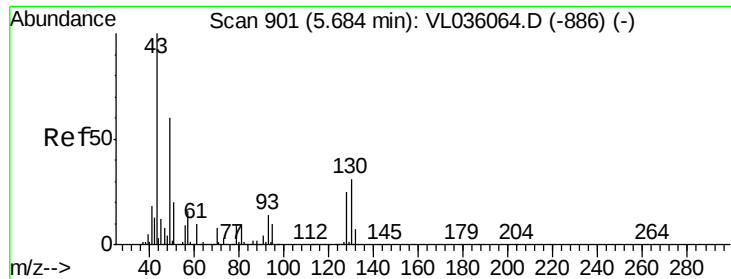
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

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Quant Time: Dec 08 21:18:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion: 49 Resp: 1283704

Ion Ratio Lower Upper

49 100

128 40.3 21.1 63.1

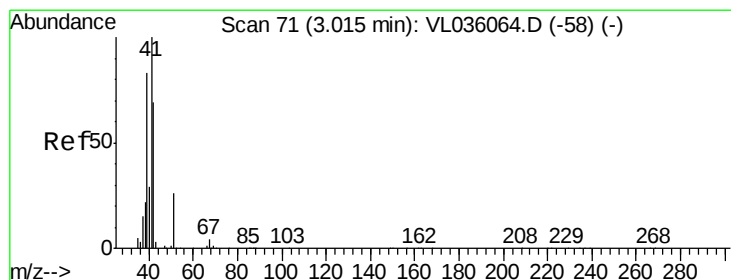
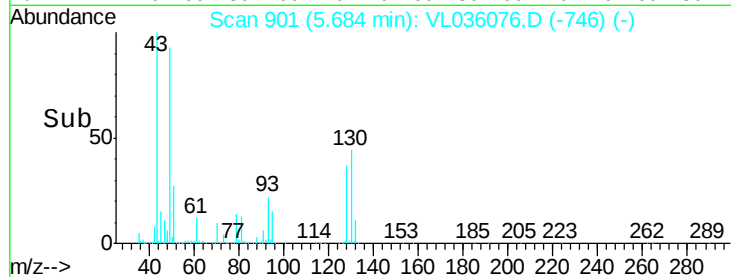
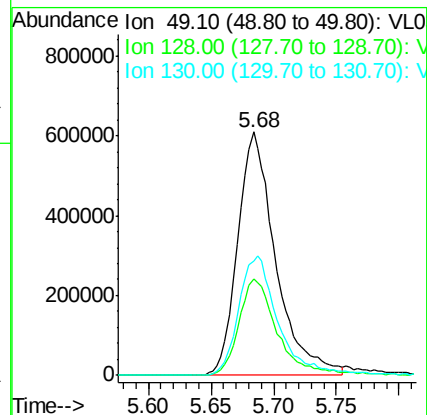
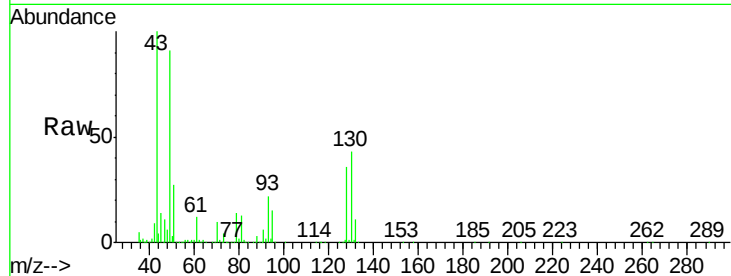
130 52.2 27.1 81.3

Manual Integrations

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#9

Propene

Concen: 1.575 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL036076.D

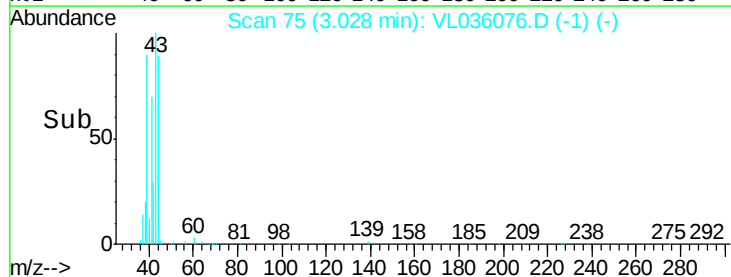
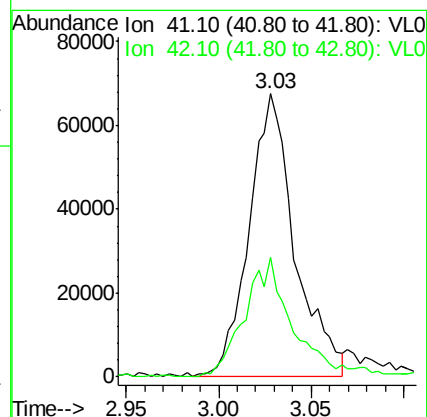
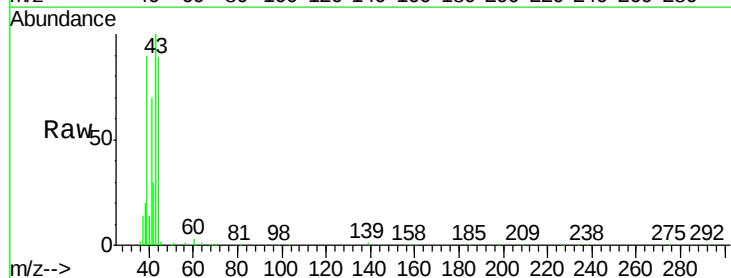
Acq: 7 Dec 2020 22:26

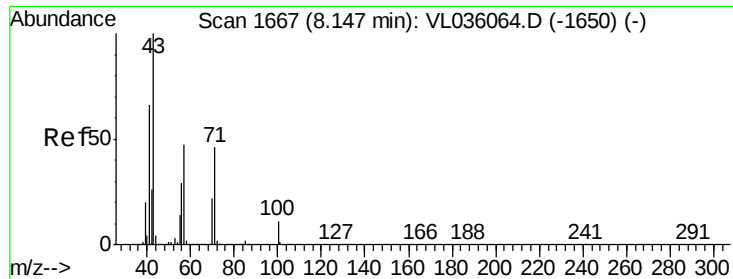
Tgt Ion: 41 Resp: 115561

Ion Ratio Lower Upper

41 100

42 46.7 57.0 85.6#





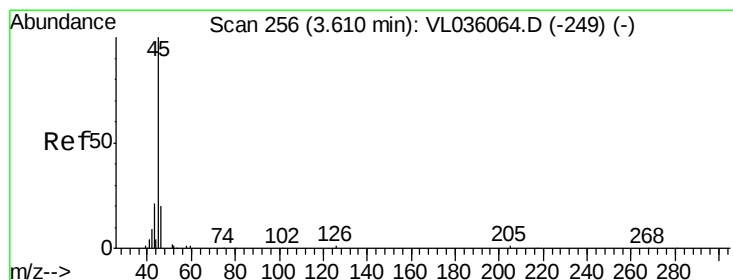
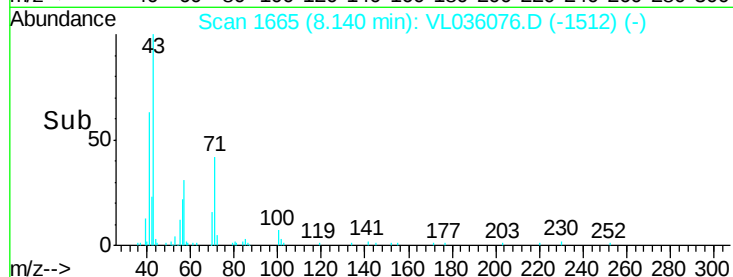
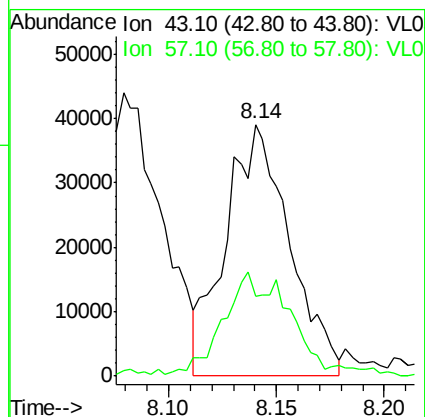
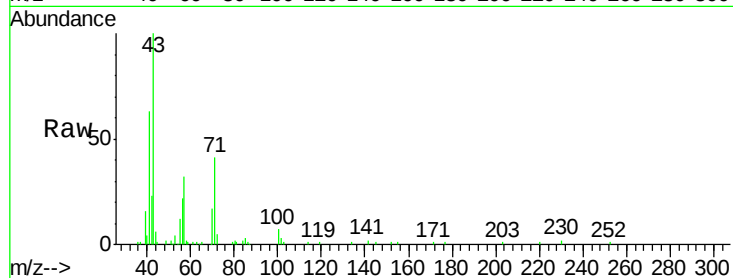
#10
Heptane
Concen: 0.432 ppbv m
RT: 8.14 min Scan# 1665
Delta R.T. -0.01 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion: 43 Resp: 80879
Ion Ratio Lower Upper
43 100
57 44.3 37.9 56.9

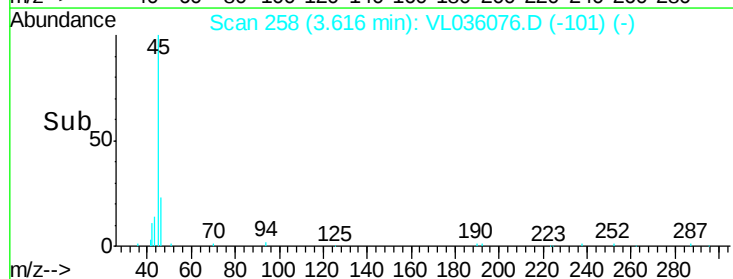
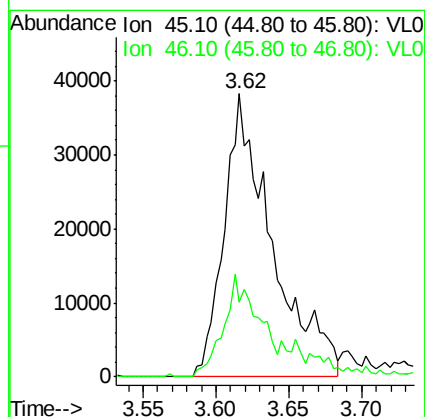
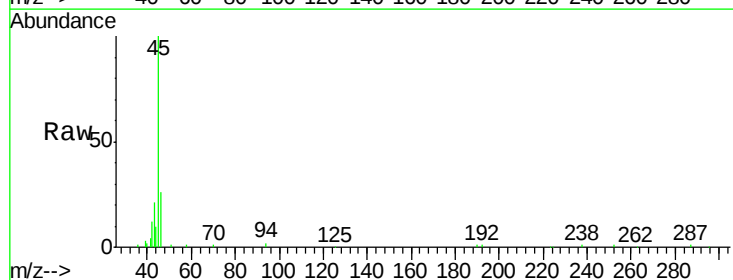
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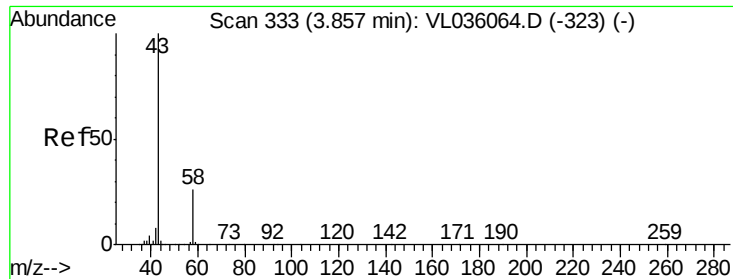
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#13
Ethanol
Concen: 8.604 ppbv m
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion: 45 Resp: 87024
Ion Ratio Lower Upper
45 100
46 36.4 19.0 75.8





#15

Acetone

Concen: 14.323 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion: 43 Resp: 2209784

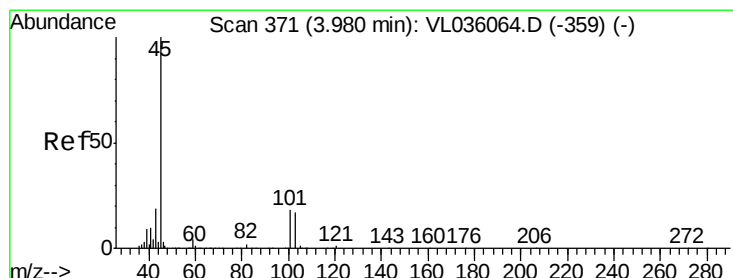
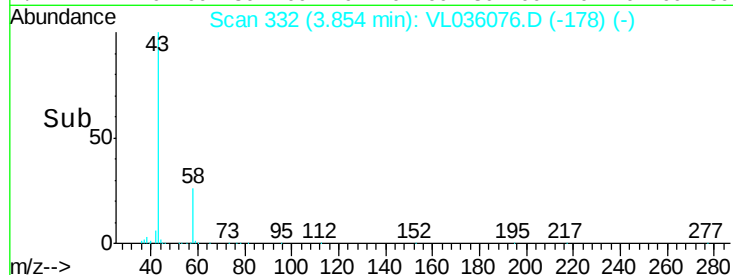
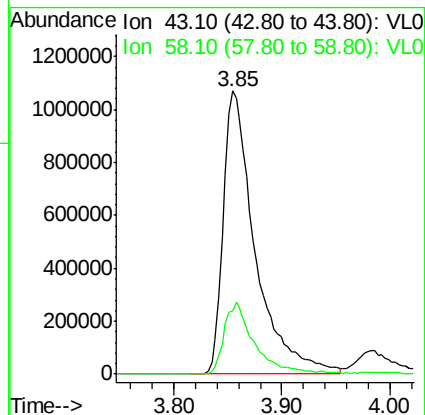
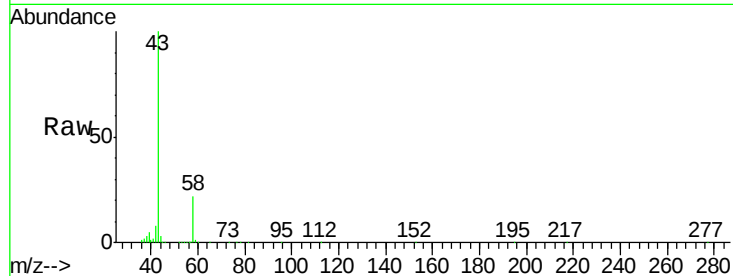
Ion Ratio Lower Upper

43 100

58 24.3 20.9 31.3

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#19

Isopropyl Alcohol

Concen: 7.937 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.01 min

Lab File: VL036076.D

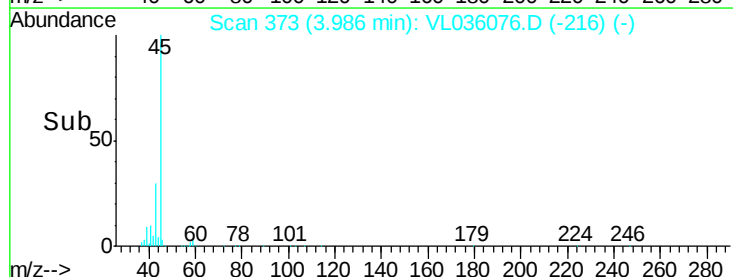
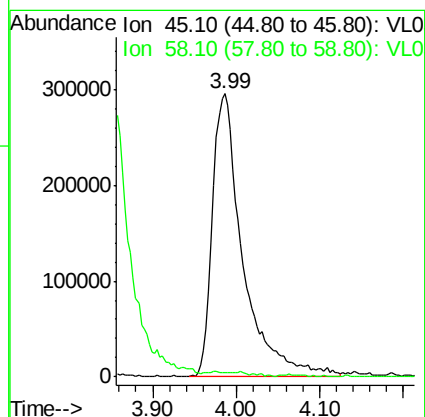
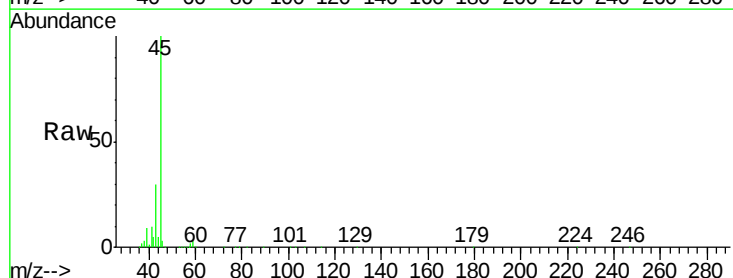
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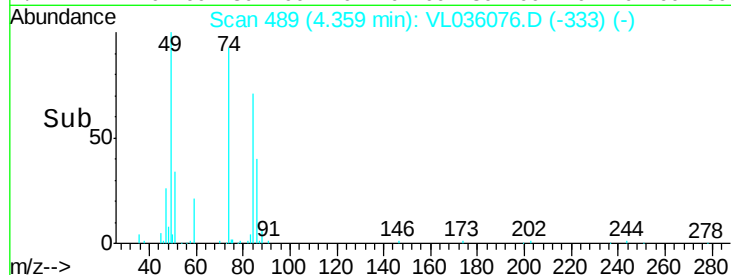
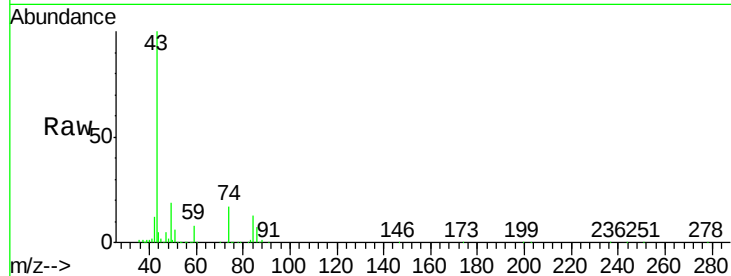
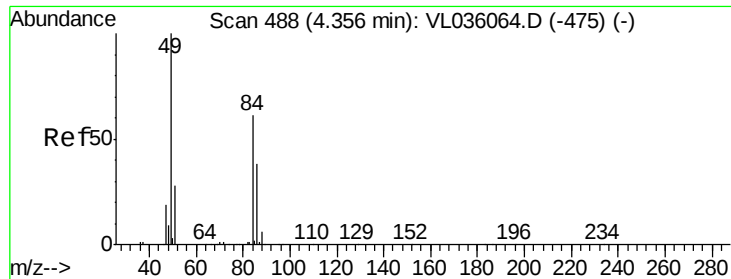
Tgt Ion: 45 Resp: 748413

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0





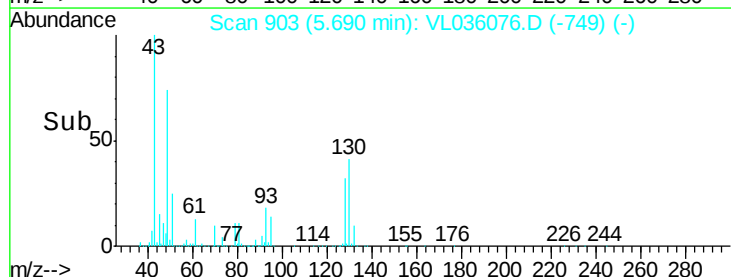
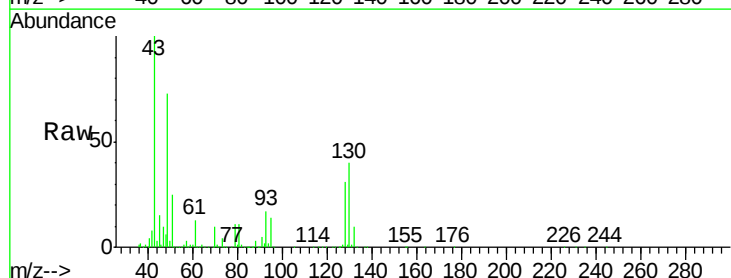
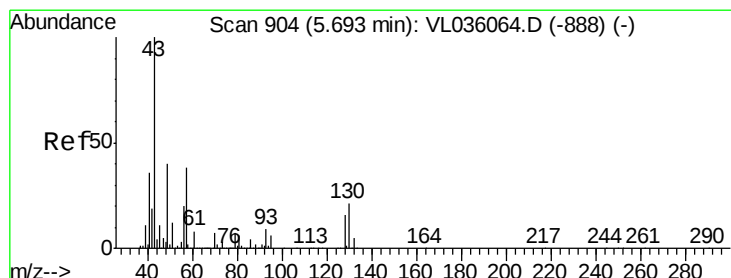
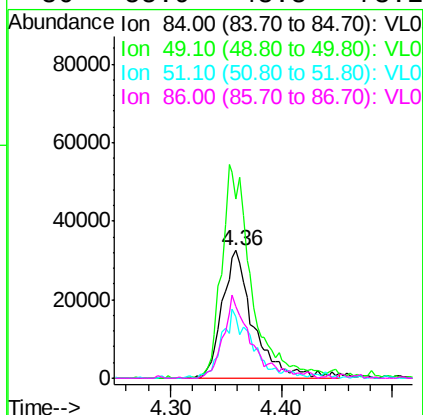
#20
Methvlene Chloride
Concen: 1.009 ppbv m
RT: 4.36 min Scan# 489
Delta R.T. 0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	140.5	133.0	199.4	
51	47.9	38.9	58.3	
86	55.9	48.8	73.2	

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

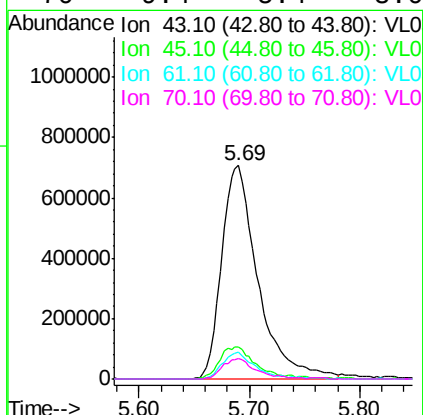
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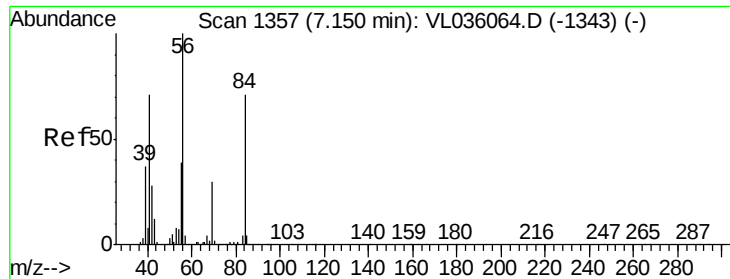
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#25
Ethyl Acetate
Concen: 5.203 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
45	16.0	8.2	12.4#	
61	11.8	7.4	11.2#	
70	9.4	5.4	8.0#	





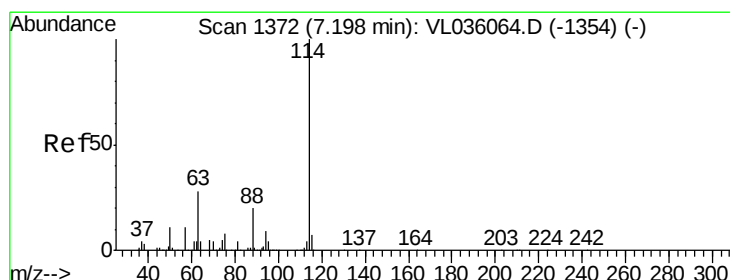
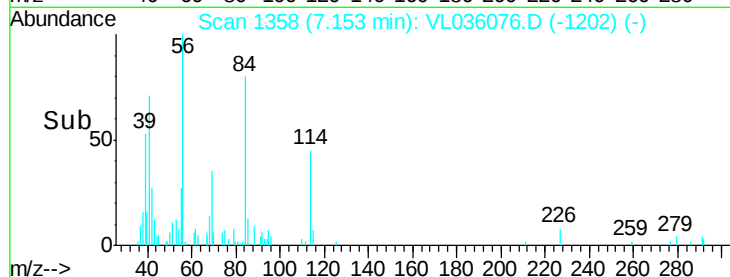
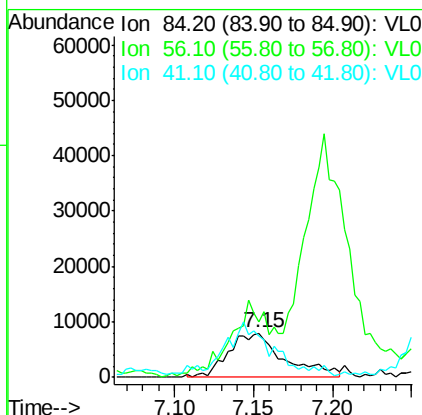
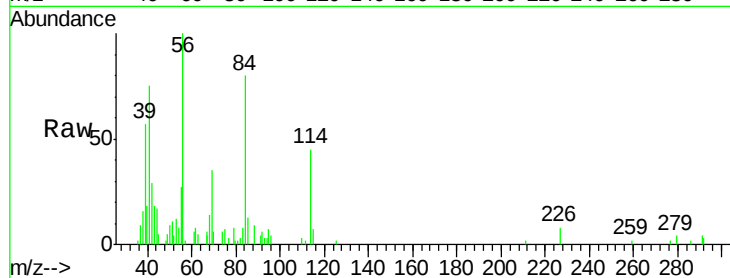
#30
Cyclohexane
Concen: 0.191 ppbv m
RT: 7.15 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	128.0	192.0#
41	0.0	81.3	121.9#

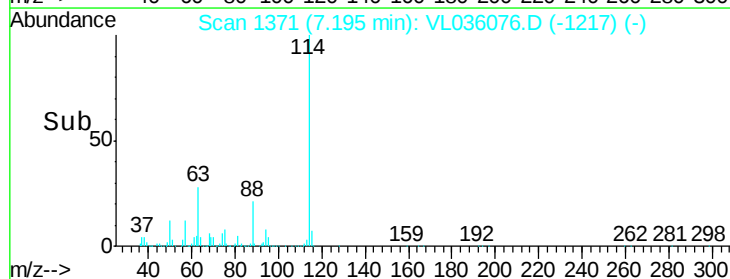
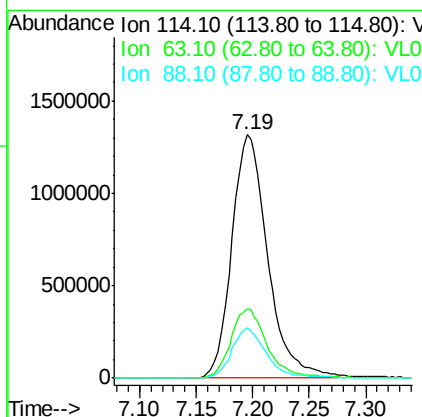
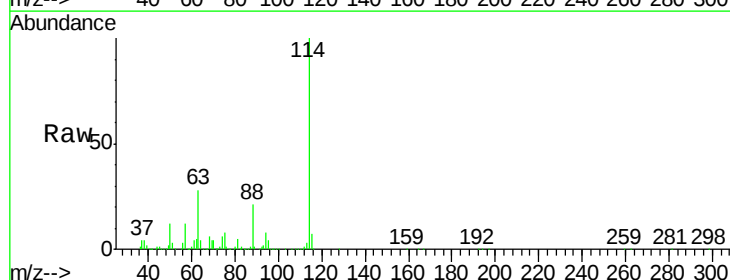
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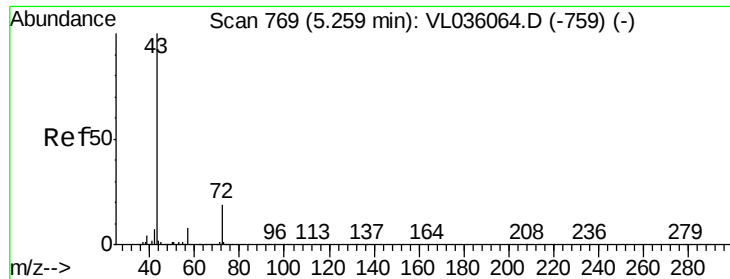
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.1	23.6	35.4
88	19.9	15.8	23.6





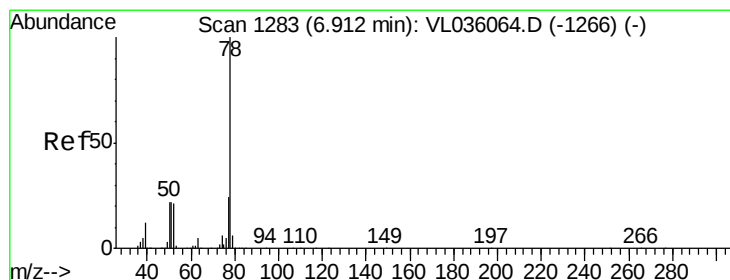
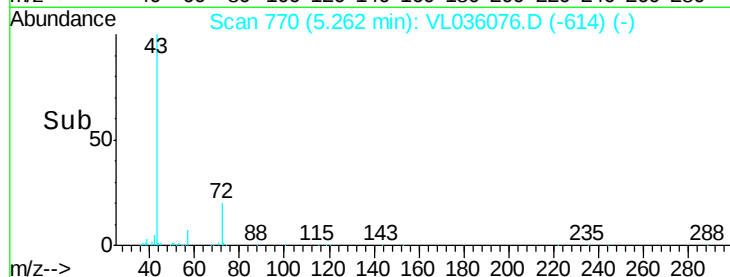
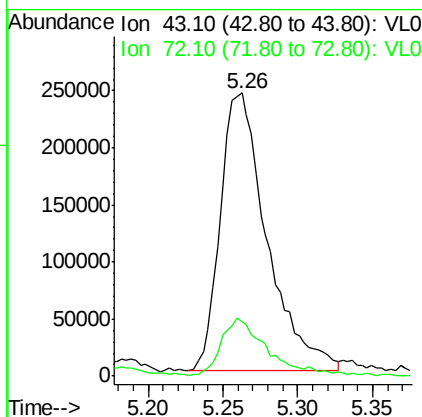
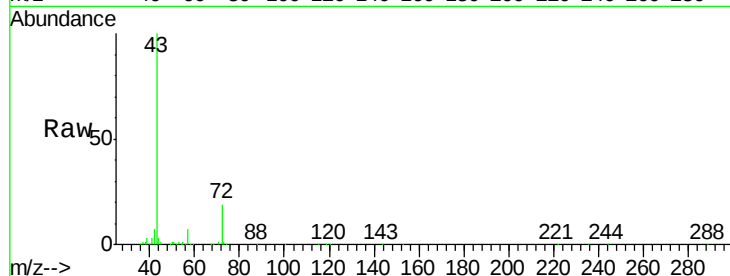
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2-Butanone
Concen: 2.744 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.5	24.7

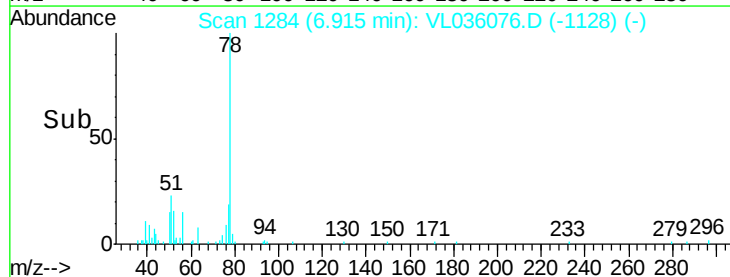
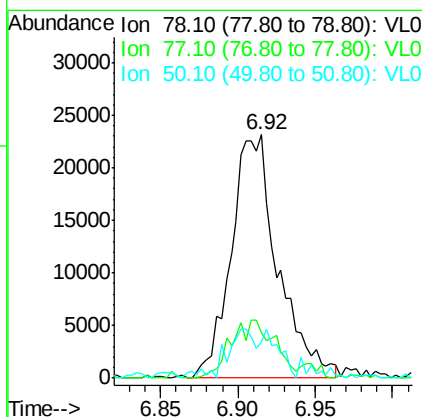
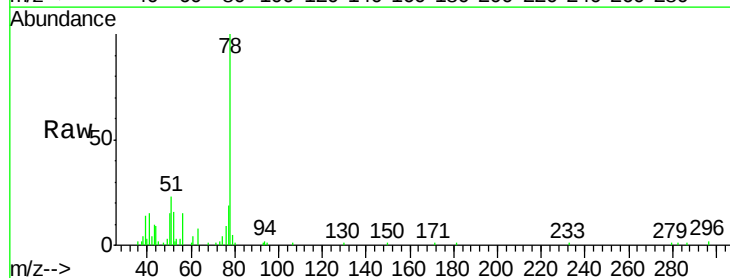
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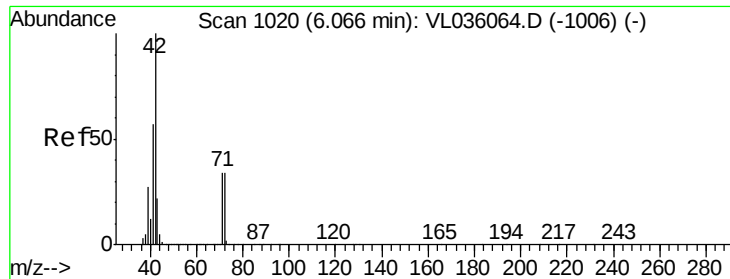
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#36
Benzene
Concen: 0.196 ppbv m
RT: 6.92 min Scan# 1284
Delta R.T. 0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.6	19.4	29.2#
50	15.2	17.8	26.8#





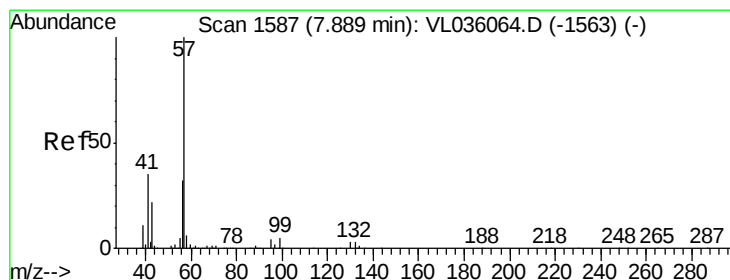
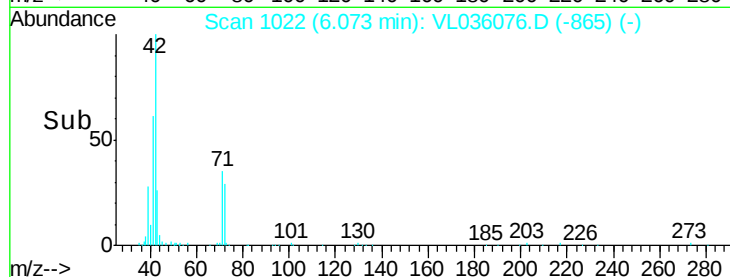
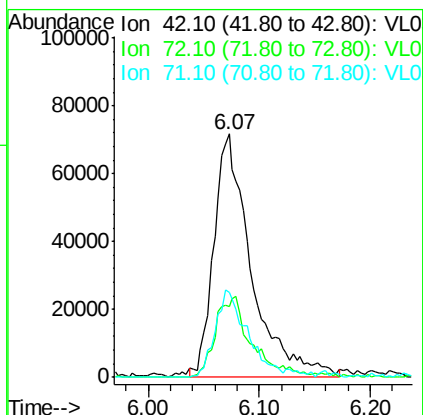
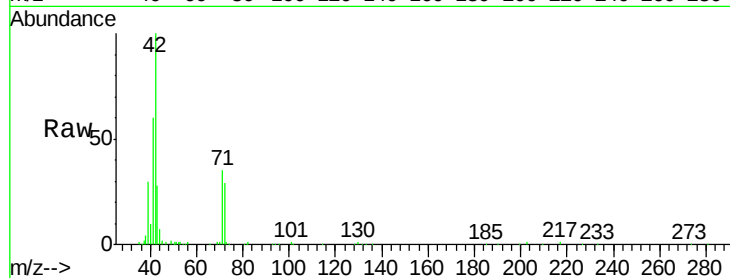
#41
Tetrahydrofuran
Concen: 1.473 ppbv m
RT: 6.07 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.3	28.3	42.5
71	33.1	27.3	40.9

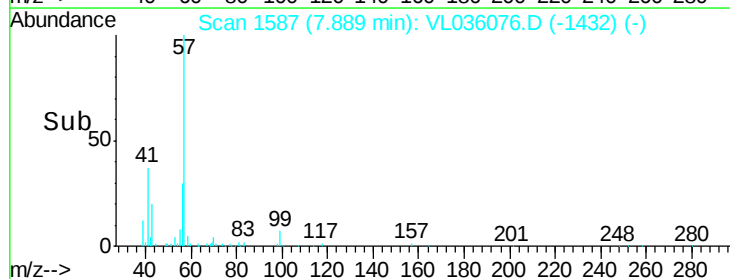
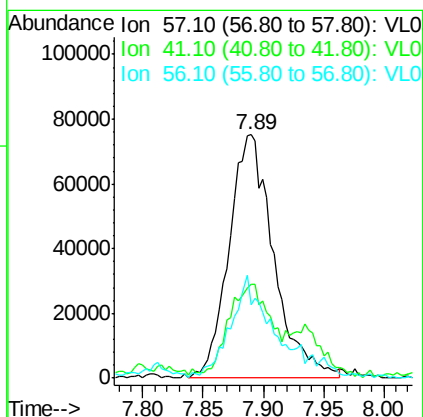
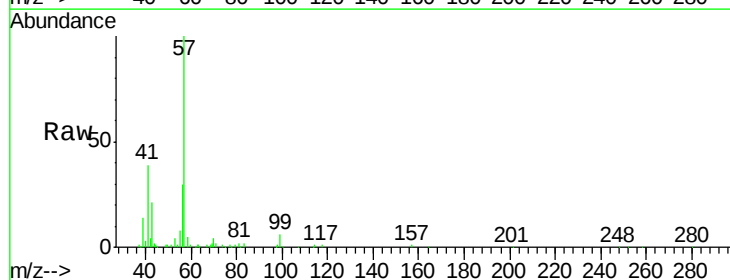
Manual Integrations
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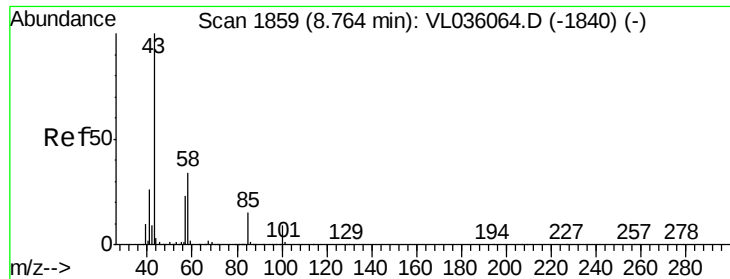
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#44
2,2,4-Trimethylpentane
Concen: 0.428 ppbv m
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	54.1	28.9	43.3#
56	43.5	25.3	37.9#





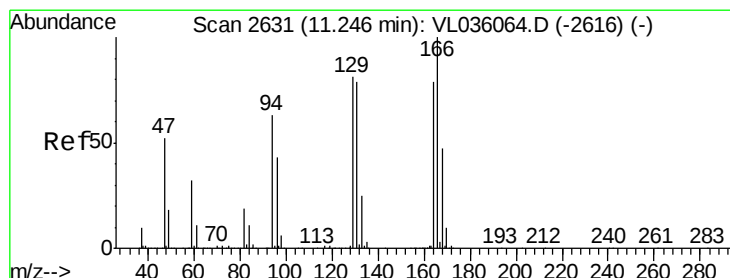
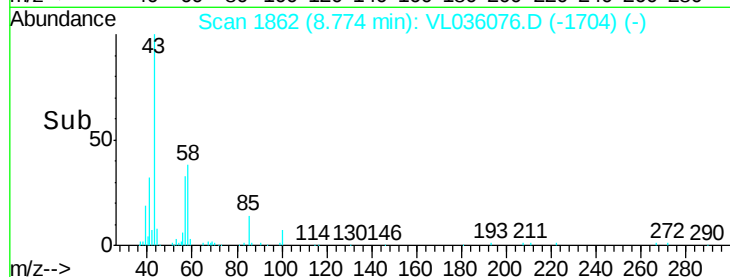
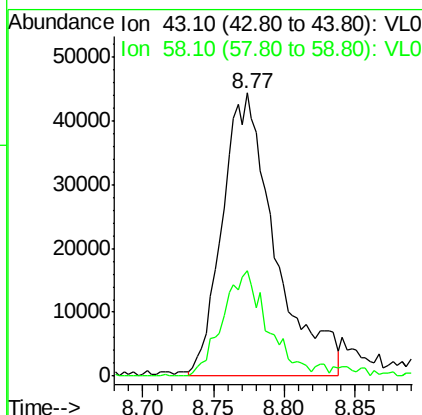
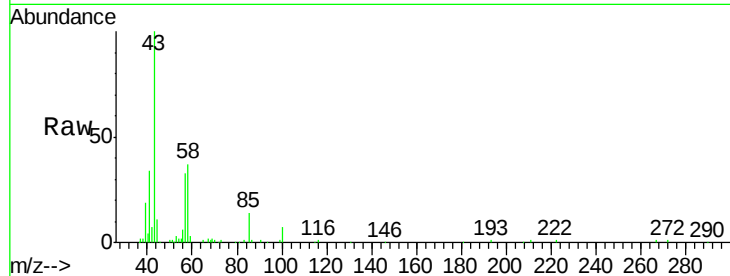
#50
4-Methyl-2-Pentanone
Concen: 0.400 ppbv m
RT: 8.77 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampled :
IA-3DL

Tot Ion: 43 Resp: 115205
Ion Ratio Lower Upper
43 100
58 0.0 27.4 41.2#

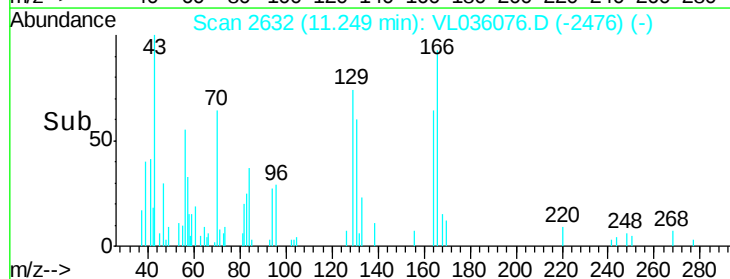
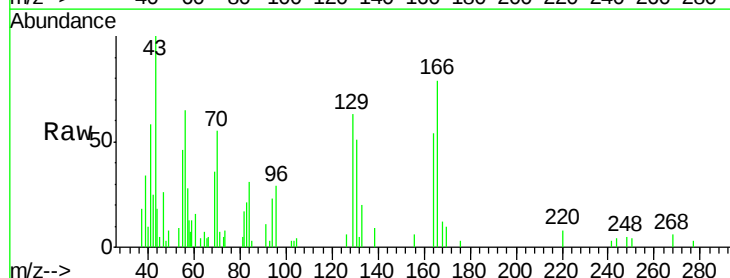
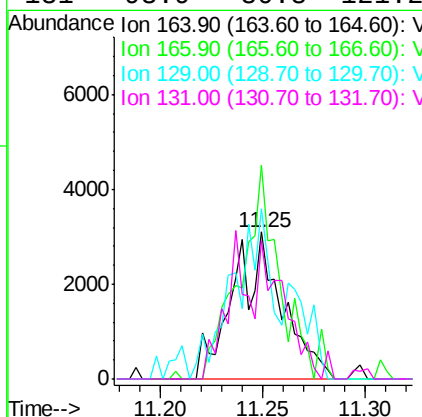
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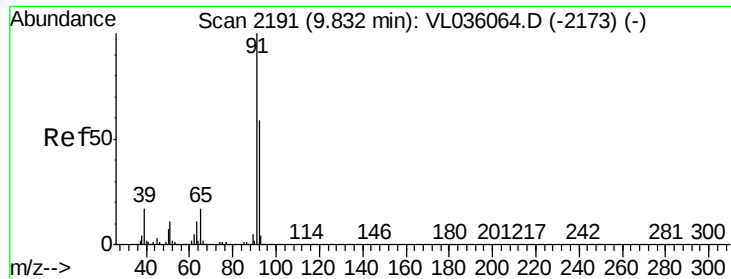
MMDadoda
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#52
Tetrachloroethene
Concen: 0.058 ppbv m
RT: 11.25 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion: 164 Resp: 5153
Ion Ratio Lower Upper
164 100
166 145.7 101.9 152.9
129 115.9 82.1 123.1
131 93.9 80.8 121.2





#53

Toluene

Concen: 24.041 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion: 91 Resp: 6663868

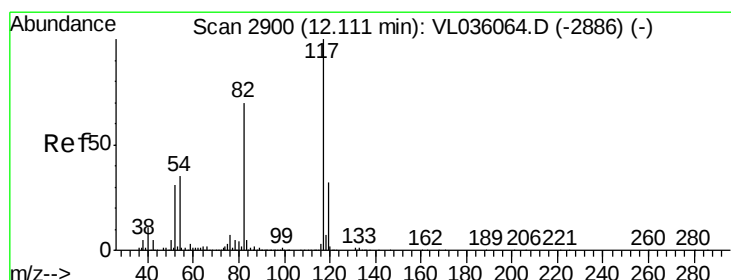
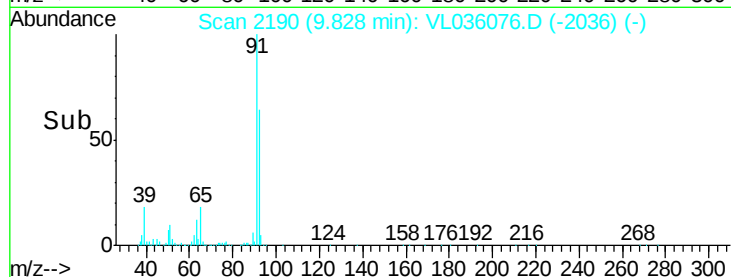
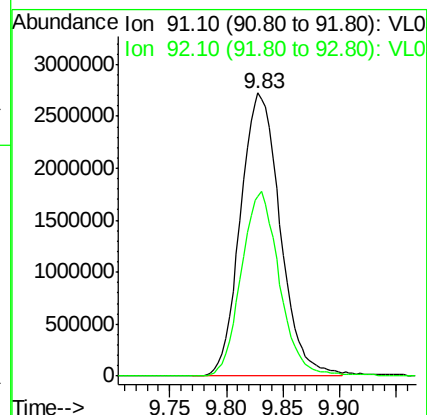
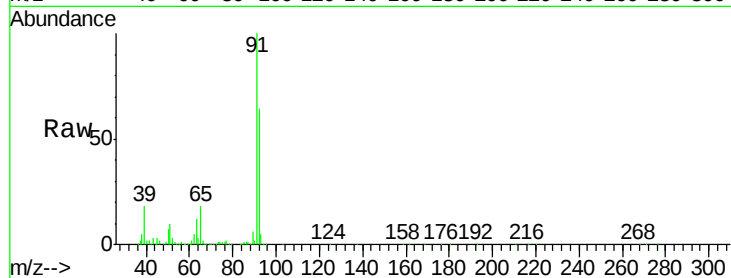
Ion Ratio Lower Upper

91 100

92 63.2 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

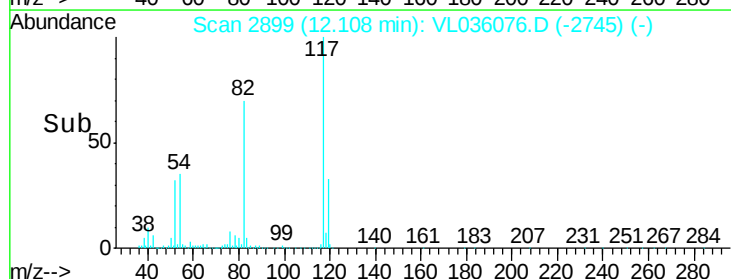
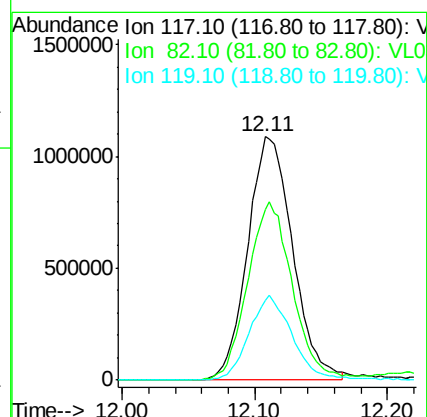
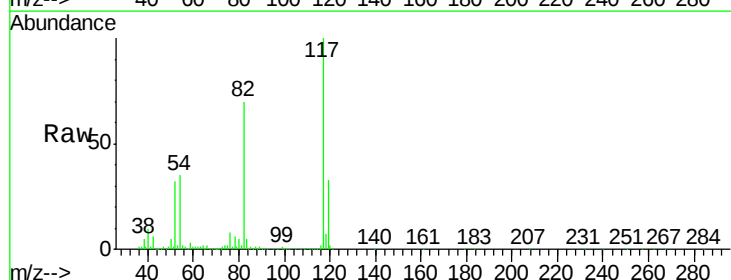
Tgt Ion: 117 Resp: 2568397

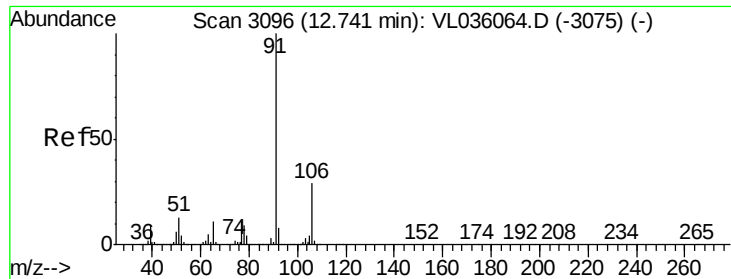
Ion Ratio Lower Upper

117 100

82 72.6 0.0 0.0#

119 33.5 0.0 0.0#





#58

Ethyl Benzene

Concen: 0.845 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

Instrument :

MSVOA_L

ClientSampled :

IA-3DL

Tot Ion: 91 Resp: 297289

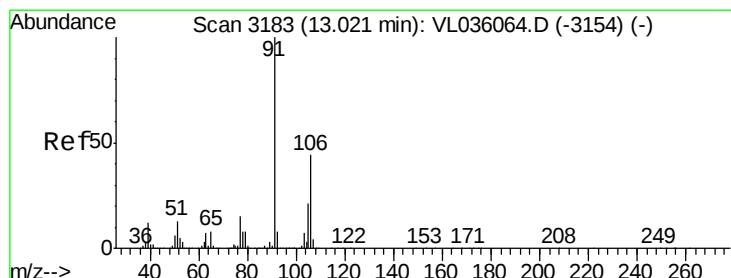
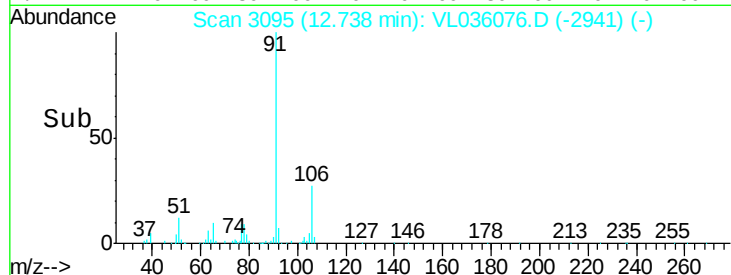
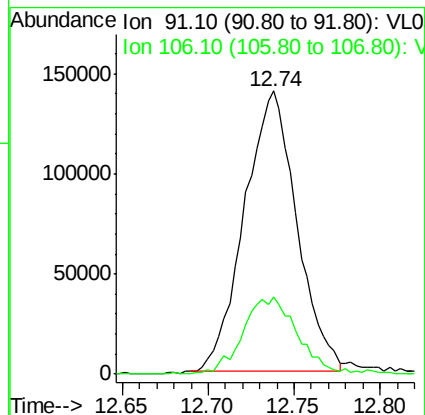
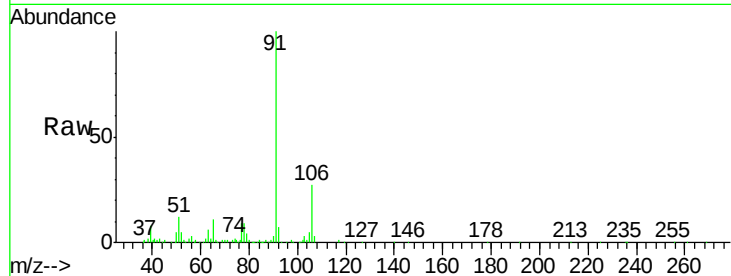
Ion Ratio Lower Upper

91 100

106 27.3 23.0 34.4

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#59

m/p-Xylene

Concen: 2.859 ppbv m

RT: 12.99 min Scan# 3172

Delta R.T. -0.04 min

Lab File: VL036076.D

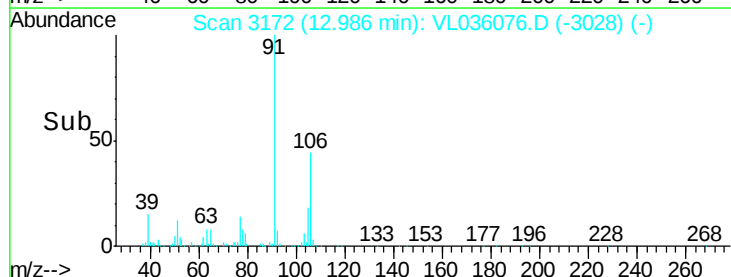
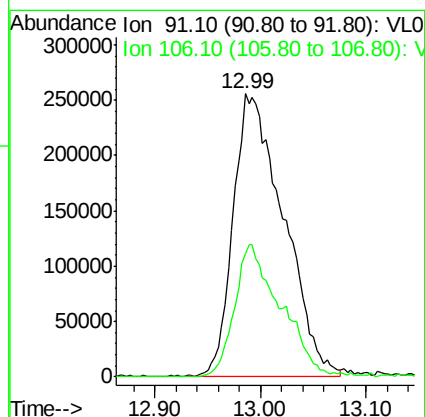
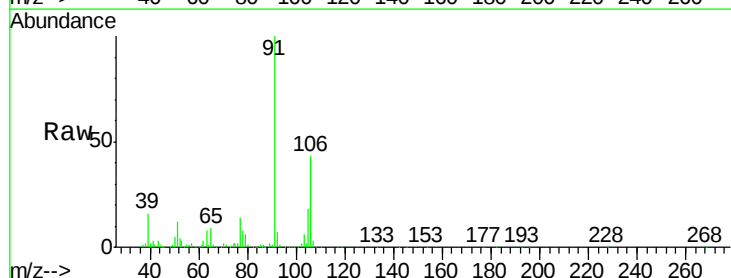
Acq: 7 Dec 2020 22:26

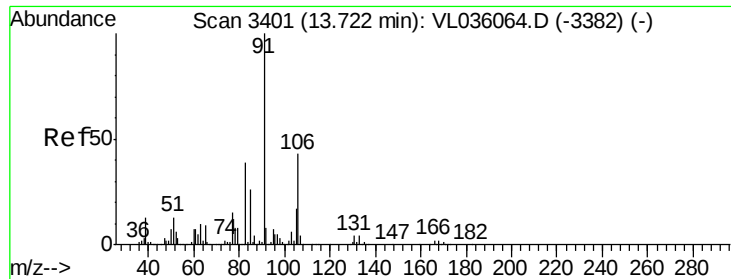
Tgt Ion: 91 Resp: 847540

Ion Ratio Lower Upper

91 100

106 0.0 33.6 50.4#





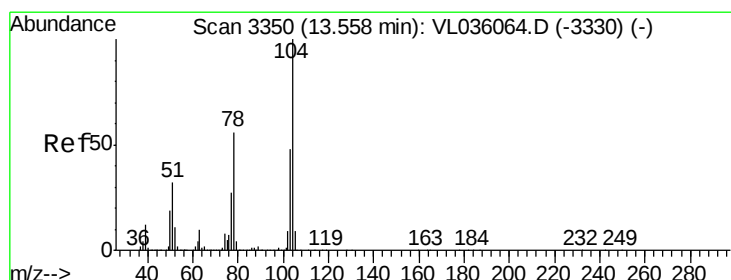
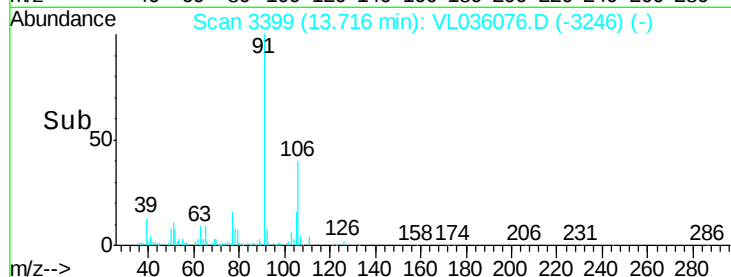
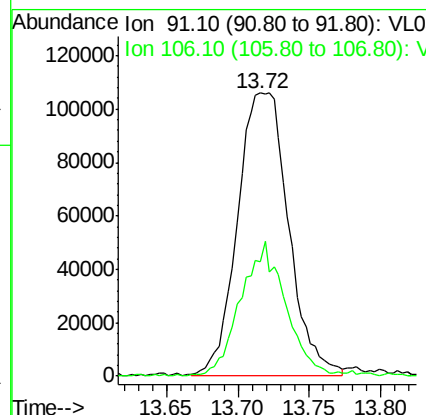
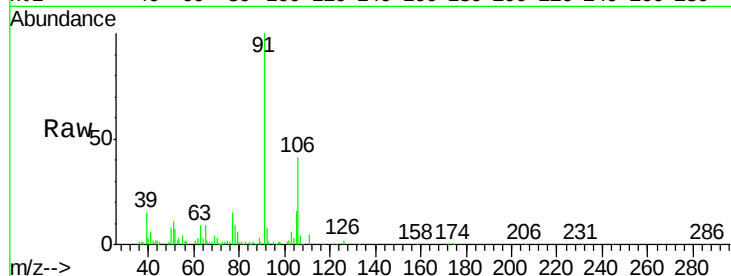
#60
o-Xylene
Concen: 0.946 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	41.7	21.6	64.6

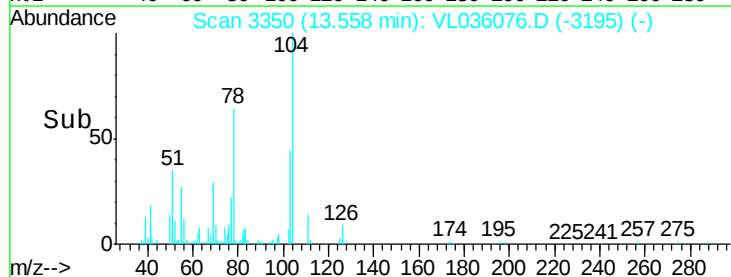
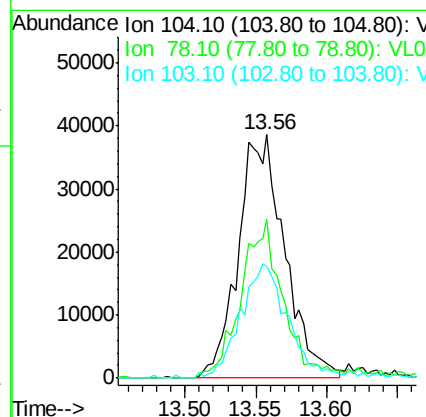
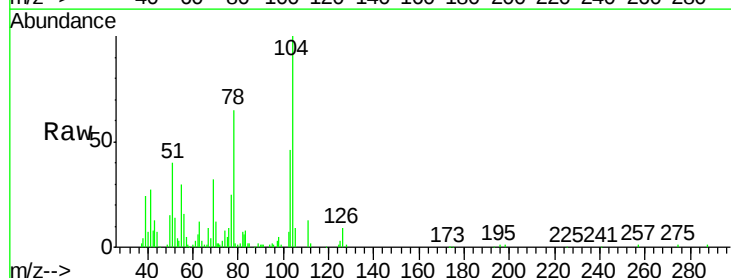
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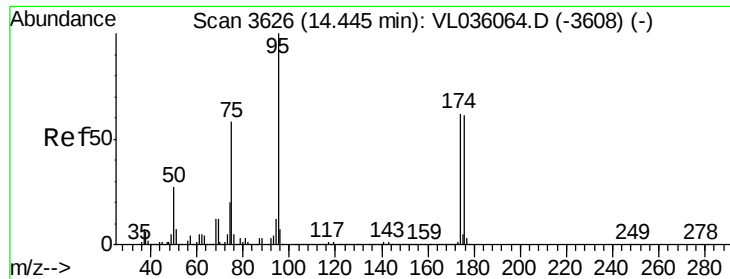
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#61
Styrene
Concen: 0.491 ppbv m
RT: 13.56 min Scan# 3350
Delta R.T. -0.00 min
Lab File: VL036076.D
Acq: 7 Dec 2020 22:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	58.8	45.8	68.8
103	48.8	38.6	57.8





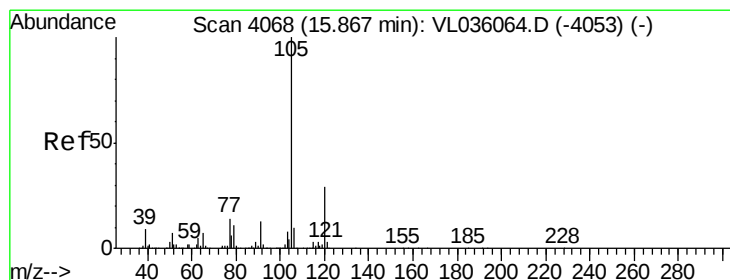
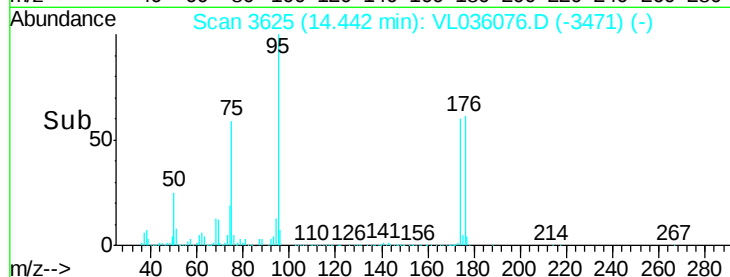
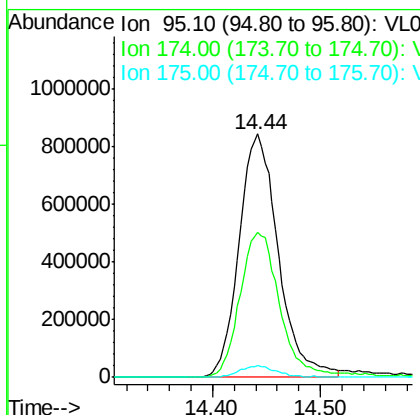
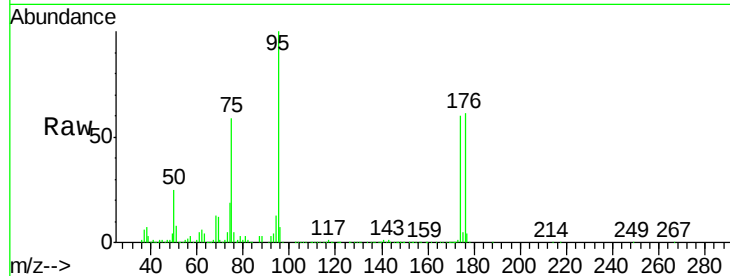
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.484 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL036076.D
 Acq: 7 Dec 2020 22:26

Instrument :
 MSVOA_L
 ClientSampled :
 IA-3DL

Tot Ion: 95 Resp: 2138135
 Ion Ratio Lower Upper
 95 100
 174 62.6 50.7 76.1
 175 4.5 4.0 6.0

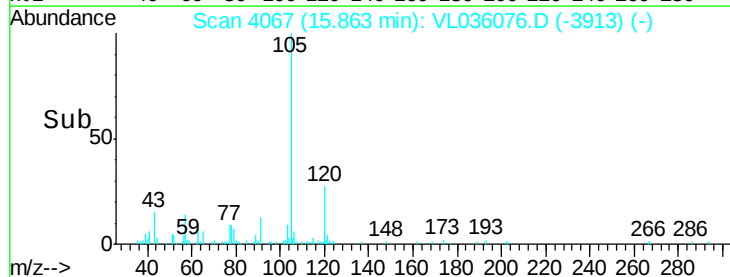
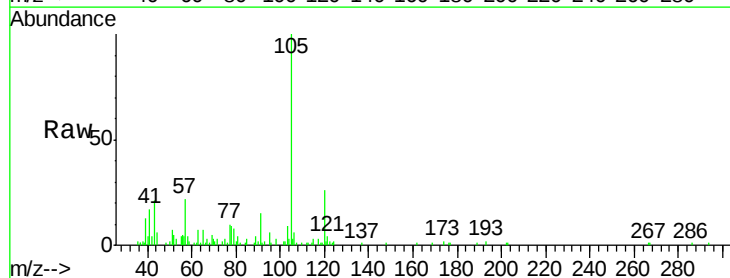
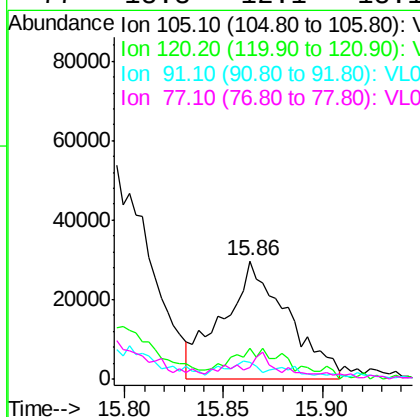
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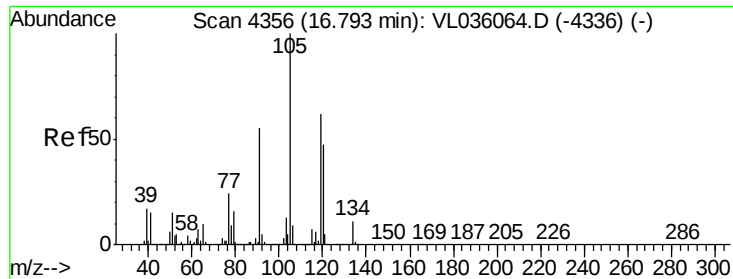
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#72
 4-Ethyltoluene
 Concen: 0.221 ppbv m
 RT: 15.86 min Scan# 4067
 Delta R.T. -0.00 min
 Lab File: VL036076.D
 Acq: 7 Dec 2020 22:26

Tgt Ion: 105 Resp: 67008
 Ion Ratio Lower Upper
 105 100
 120 23.1 23.6 35.4#
 91 12.2 11.4 17.0
 77 18.3 12.1 18.1#





#74

1,2,4-Trimethylbenzene

Concen: 0.301 ppbv m

RT: 16.79 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL036076.D

Acq: 7 Dec 2020 22:26

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tot Ion:	105	Resp:	87343
Ion Ratio	Lower	Upper	
105	100		
120	39.6	37.4	56.0
91	14.5	45.6	68.4#
77	16.8	19.4	29.2#

Manual Integrations
APPROVED

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