

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035876.D
 Acq On : 6 Nov 2020 1:46
 Operator : SY/AP
 Sample : L4618-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

MMDadoda
 11/9/2020 1:38:53 PM

Quant Time: Nov 08 18:44:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1076490	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3991873	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3706624	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2639900	10.02	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	55257	0.273	ppbv	94
3) Chlorodifluoromethane	2.97	51	44178	0.343	ppbv #	90
4) Chloromethane	3.12	50	29226	0.467	ppbv	95
9) Propene	3.00	41	725540m	15.377	ppbv	
10) Heptane	8.10	43	99829	0.766	ppbv	98
11) Trichlorofluoromethane	3.93	101	57177	0.225	ppbv	98
13) Ethanol	3.59	45	121489m	11.869	ppbv	
15) Acetone	3.82	43	12310462	106.967	ppbv #	82
20) Methylene Chloride	4.33	84	146751	1.811	ppbv	98
26) Hexane	5.66	57	163845	1.310	ppbv #	48
29) Chloroform	5.73	83	74166	0.302	ppbv	98
30) Cyclohexane	7.10	84	15533m	0.114	ppbv	
34) 2-Butanone	5.23	43	27496m	0.212	ppbv	
35) Carbon Tetrachloride	6.99	117	13655m	0.064	ppbv	
36) Benzene	6.87	78	70393	0.237	ppbv	96
44) 2,2,4-Trimethylpentane	7.84	57	73508m	0.187	ppbv	
50) 4-Methyl-2-Pentanone	8.73	43	64273	0.324	ppbv	98
52) Tetrachloroethene	11.21	164	33133m	0.236	ppbv	
53) Toluene	9.78	91	9986618	27.888	ppbv	90
58) Ethyl Benzene	12.69	91	255901	0.567	ppbv	92
59) m/p-Xylene	12.94	91	1032586	2.703	ppbv	99
60) o-Xylene	13.67	91	280764	0.756	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	79221	0.179	ppbv #	63

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

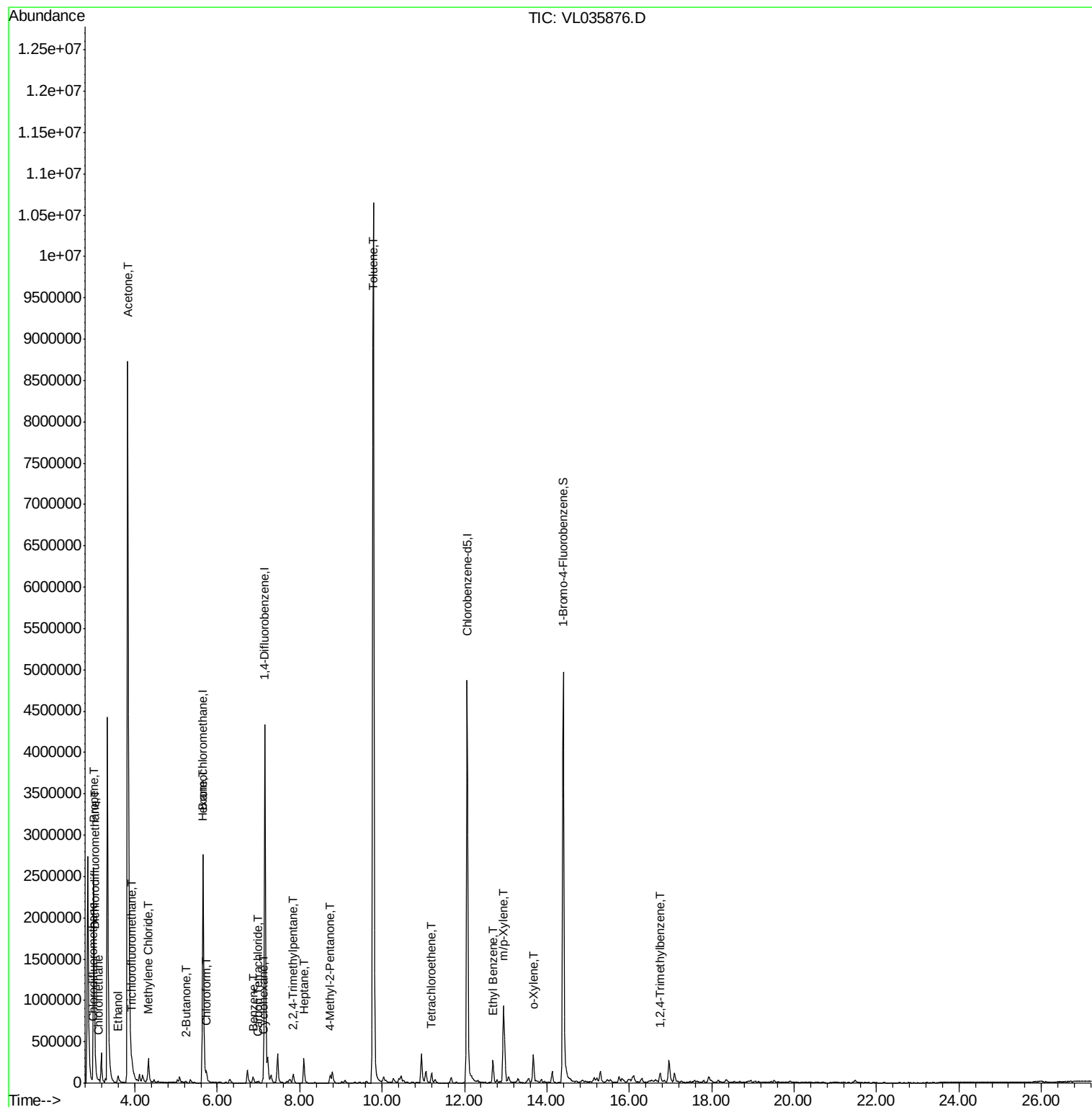
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035876.D
Acq On : 6 Nov 2020 1:46
Operator : SY/AP
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Misc : 400ml/MSVOA L
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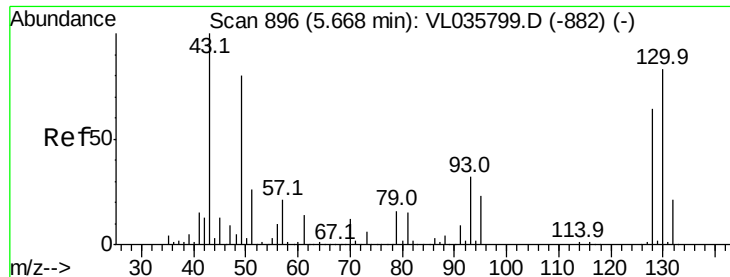
Instrument :
MSVOA_L
ClientSampleId :
IA-2

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Quant Time: Nov 08 18:44:45 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 49 Resp: 1076490

Ion Ratio Lower Upper

49 100

128 80.1 41.5 124.6

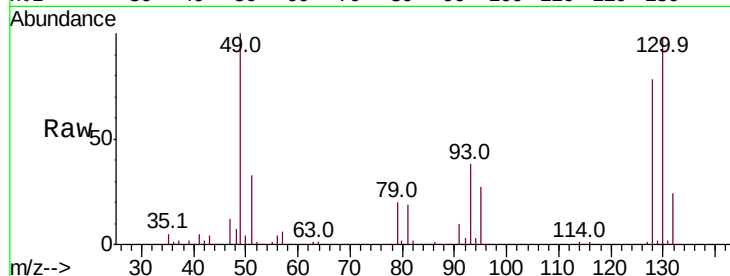
130 101.5 53.7 161.1

Manual Integrations

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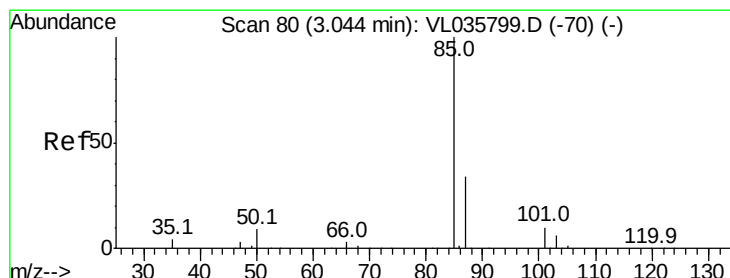
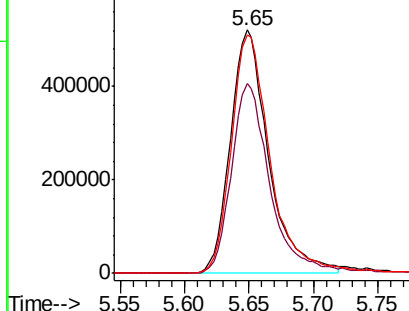
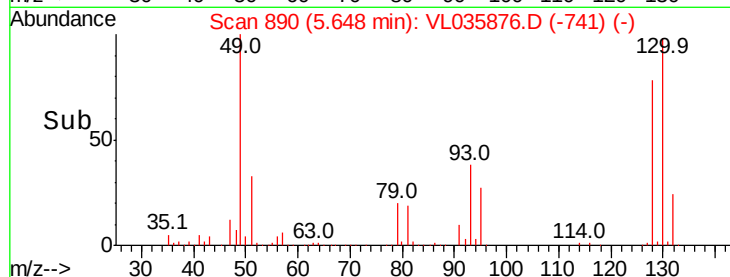
11/9/2020 1:38:53 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.273 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035876.D

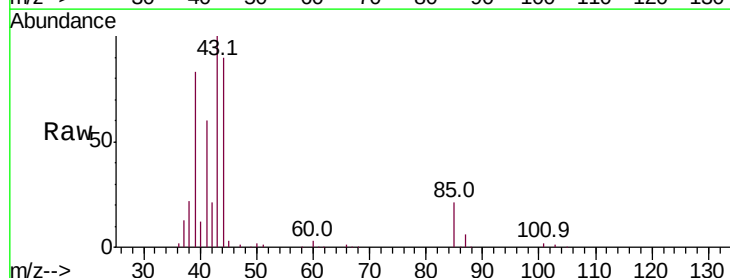
Acq: 6 Nov 2020 1:46

Tgt Ion: 85 Resp: 55257

Ion Ratio Lower Upper

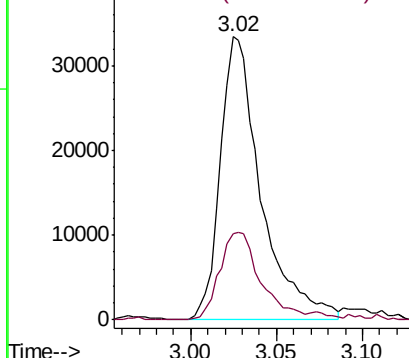
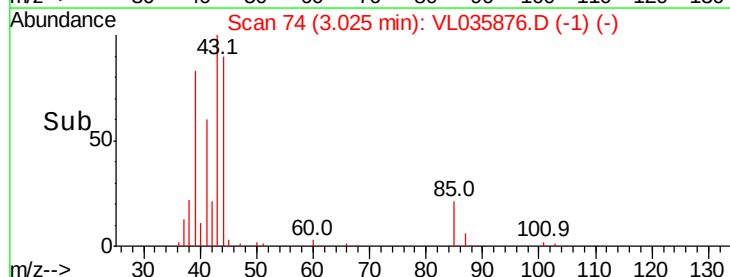
85 100

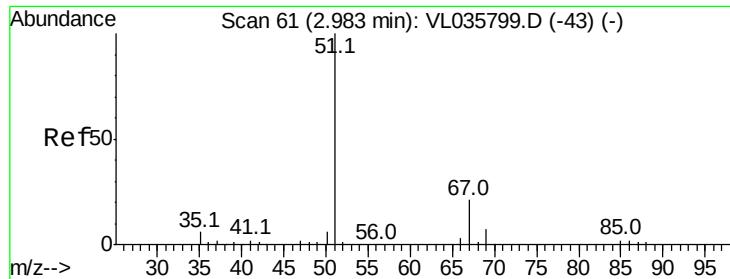
87 30.5 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

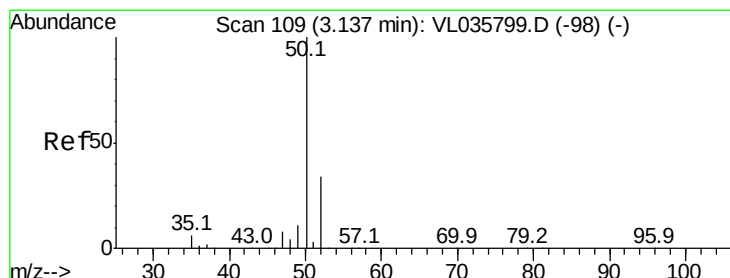
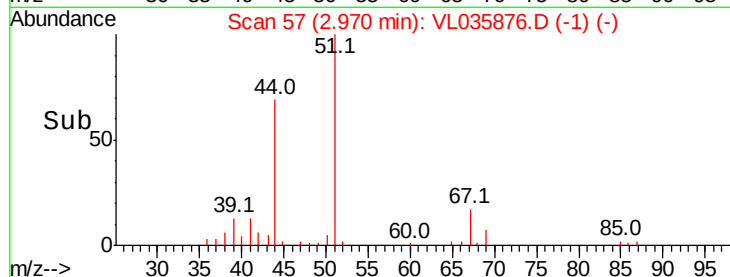
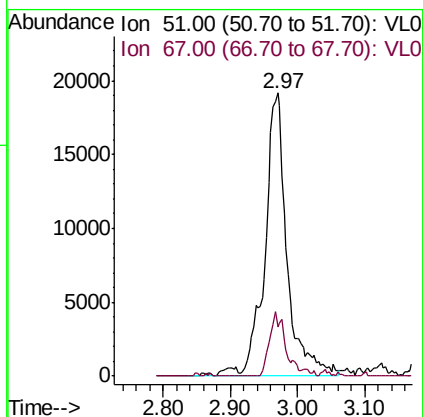
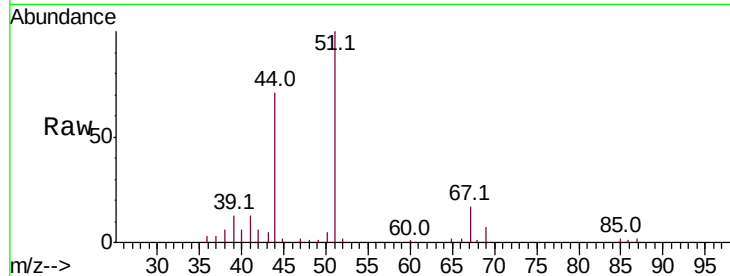
Chlorodifluoromethane
Concen: 0.343 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.01 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.7	17.0	25.4#

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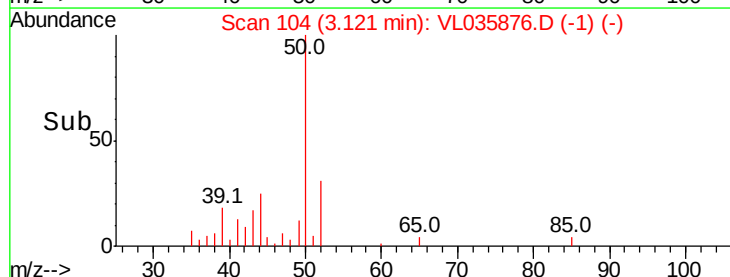
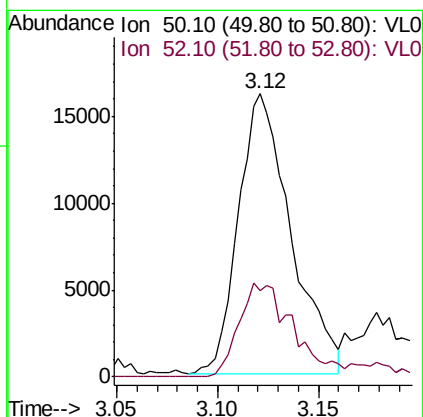
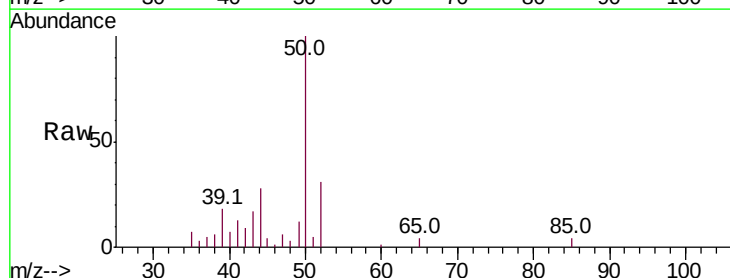
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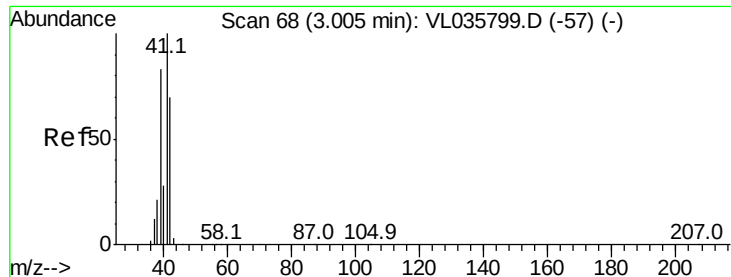


#4

Chloromethane
Concen: 0.467 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.9	27.1	40.7





#9

Propene

Concen: 15.377 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 41 Resp: 72540

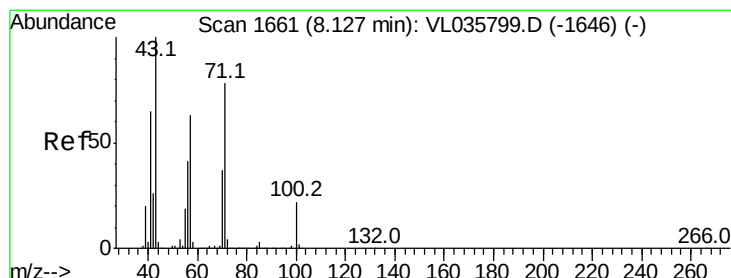
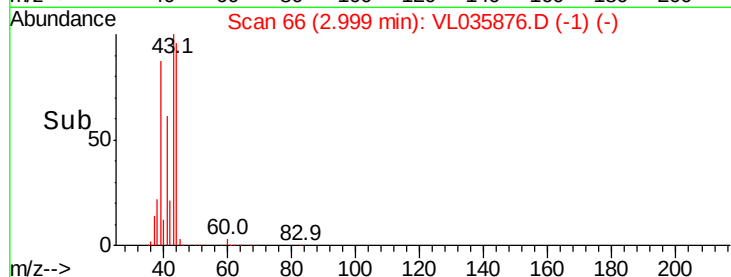
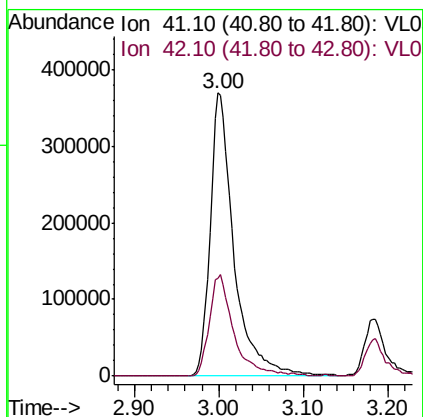
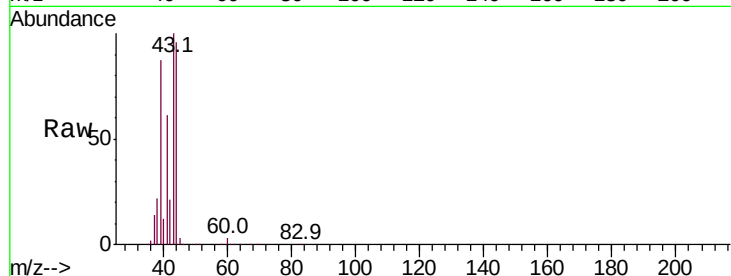
Ion Ratio Lower Upper

41 100

42 11.2 56.2 84.4#

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#10

Heptane

Concen: 0.766 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL035876.D

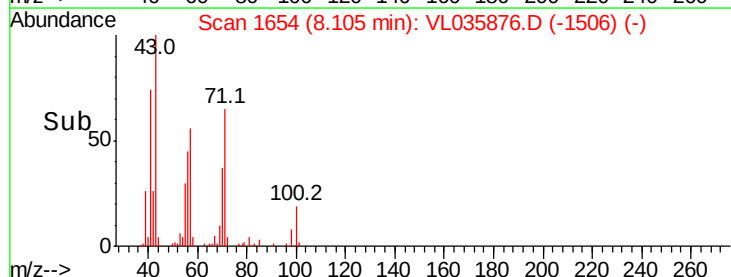
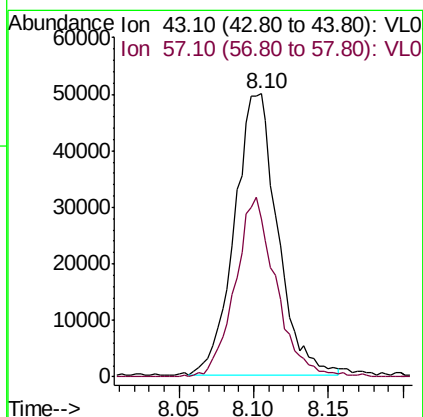
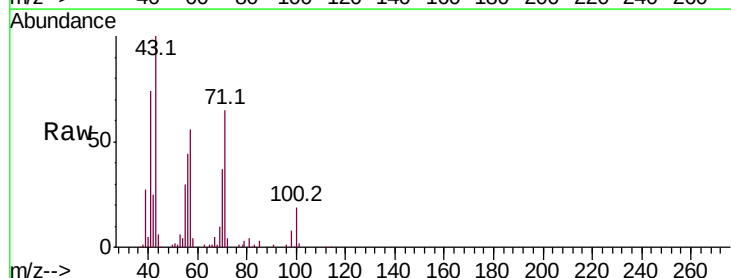
Acq: 6 Nov 2020 1:46

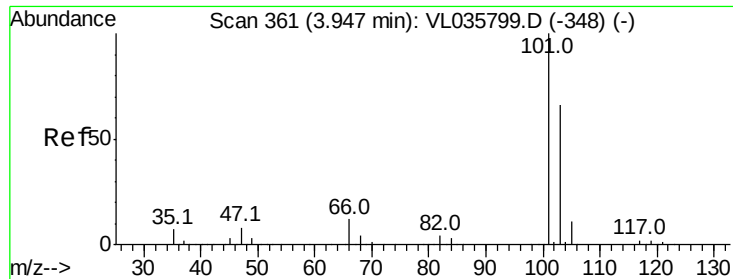
Tgt Ion: 43 Resp: 99829

Ion Ratio Lower Upper

43 100

57 61.0 50.0 75.0





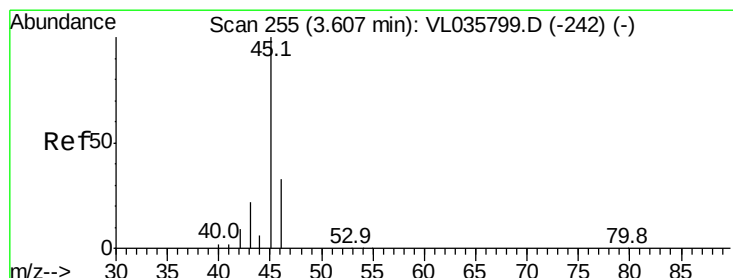
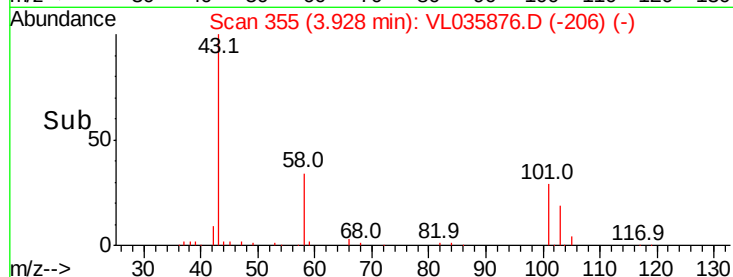
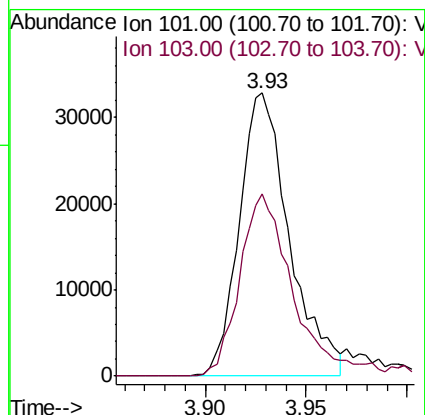
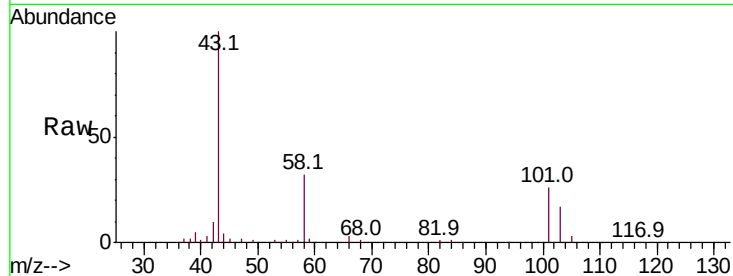
#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion:101 Resp: 57177
Ion Ratio Lower Upper
101 100
103 64.4 53.0 79.4

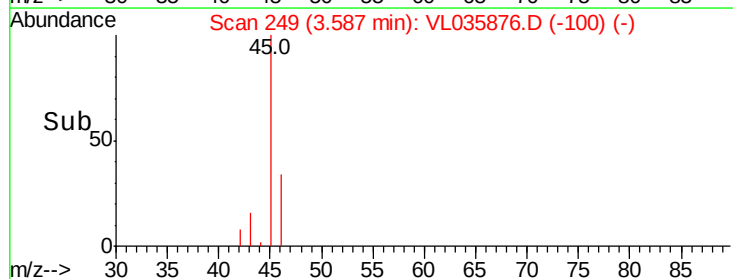
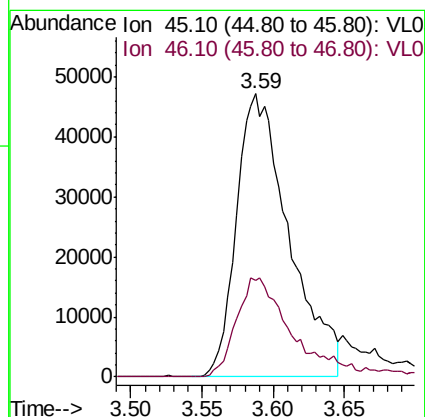
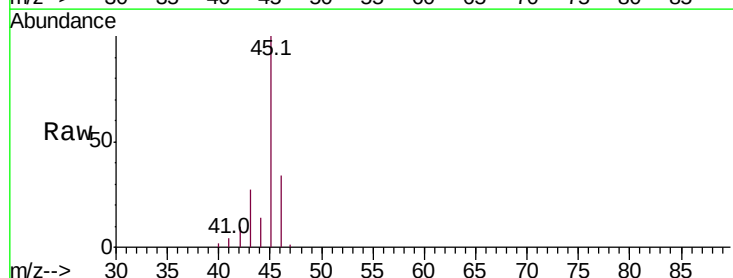
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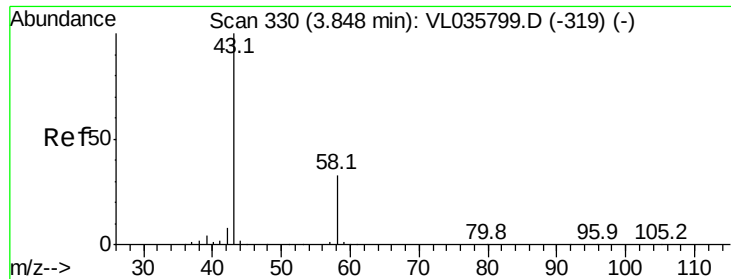
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#13
Ethanol
Concen: 11.869 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion: 45 Resp: 121489
Ion Ratio Lower Upper
45 100
46 37.8 16.1 64.5





#15

Acetone

Concen: 106.967 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 43 Resp:12310462

Ion Ratio Lower Upper

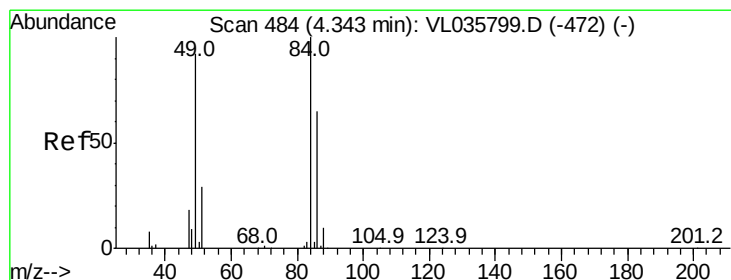
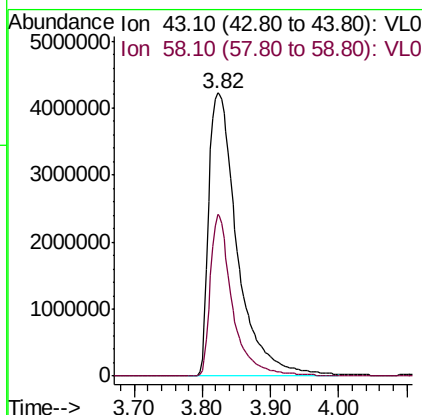
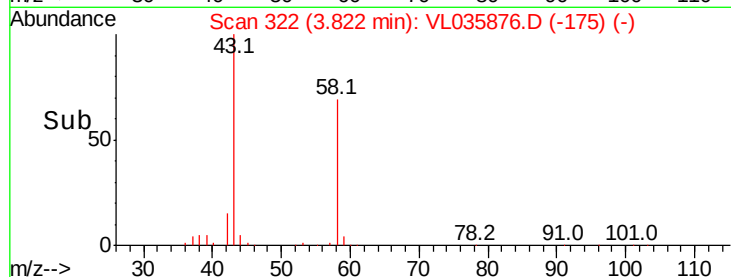
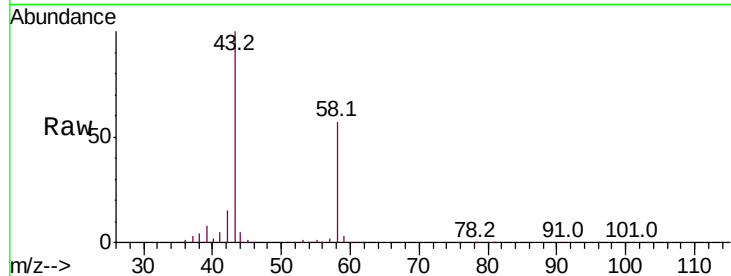
43 100

58 44.7 27.5 41.3#

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#20

Methylene Chloride

Concen: 1.811 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

Tgt Ion: 84 Resp: 146751

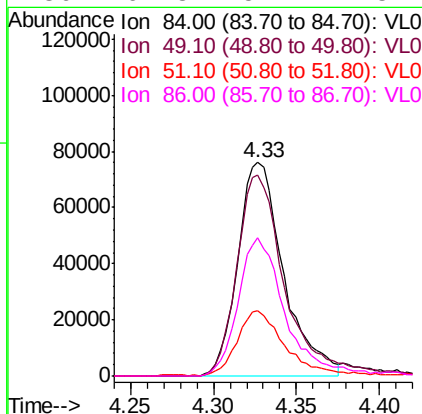
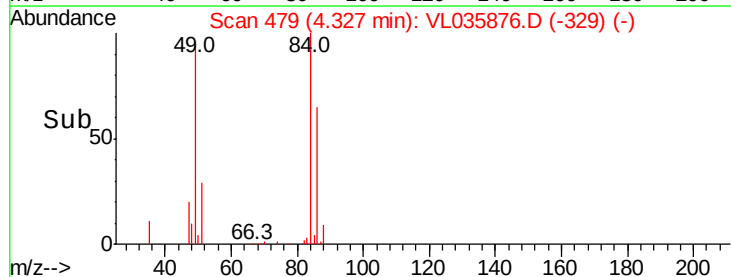
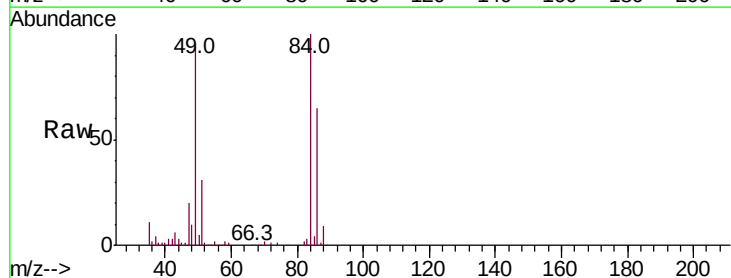
Ion Ratio Lower Upper

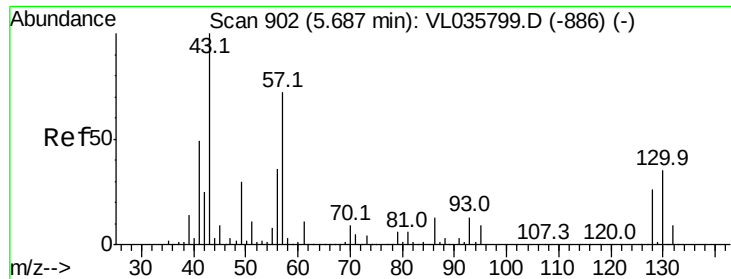
84 100

49 94.1 73.8 110.8

51 30.7 23.0 34.4

86 64.8 52.1 78.1





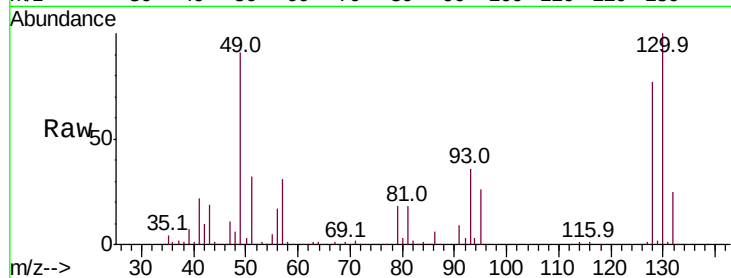
#26
Hexane
Concen: 1.310 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

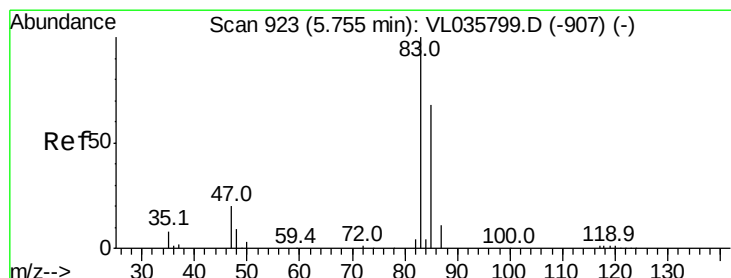
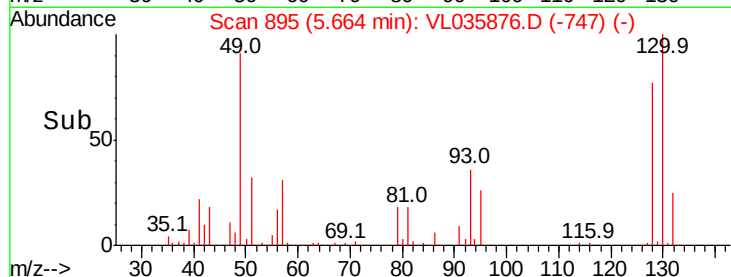
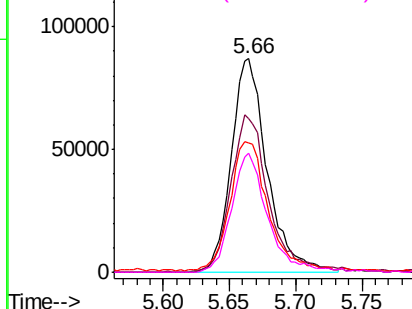
Tot Ion:	57	Resp:	163845
Ion Ratio	Lower	Upper	
57	100		
41	78.6	58.9	88.3
43	66.2	150.2	225.2#
56	56.6	42.4	63.6

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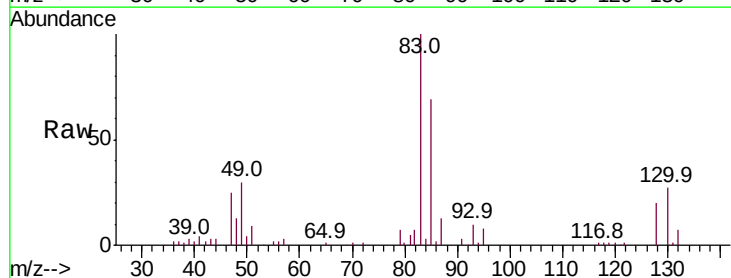


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

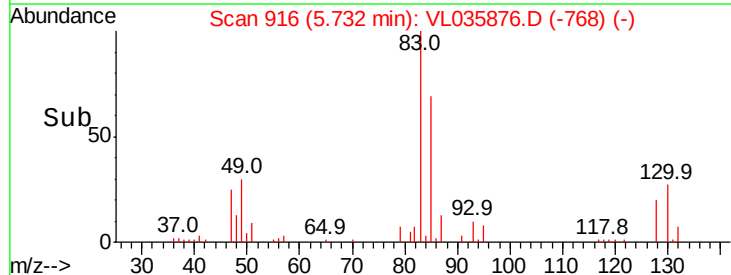
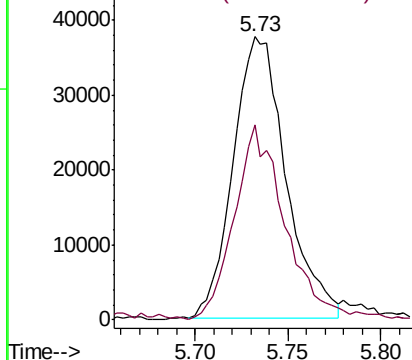


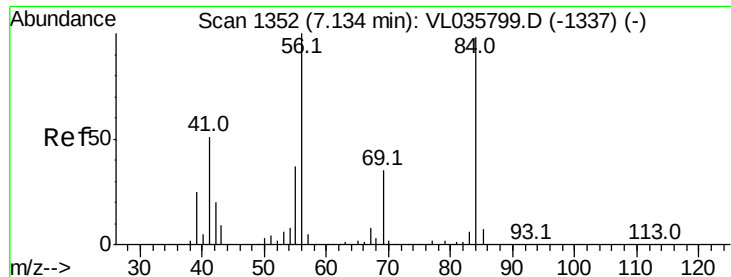
#29
Chloroform
Concen: 0.302 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion:	83	Resp:	74166
Ion Ratio	Lower	Upper	
83	100		
85	69.5	54.6	81.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





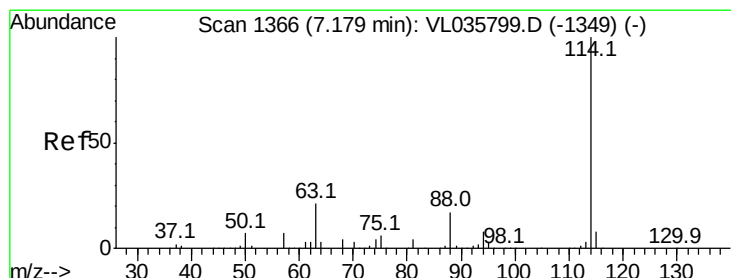
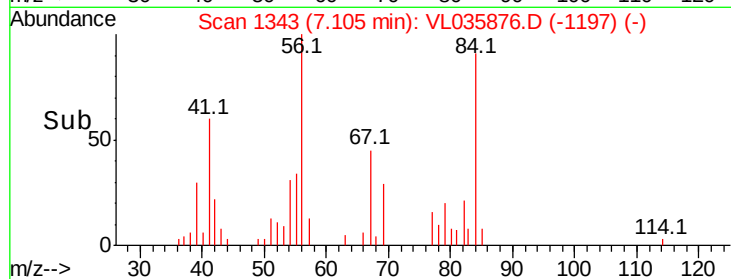
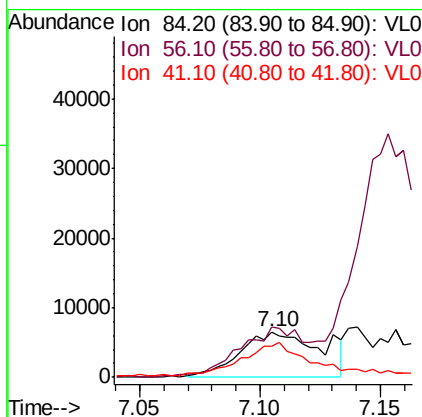
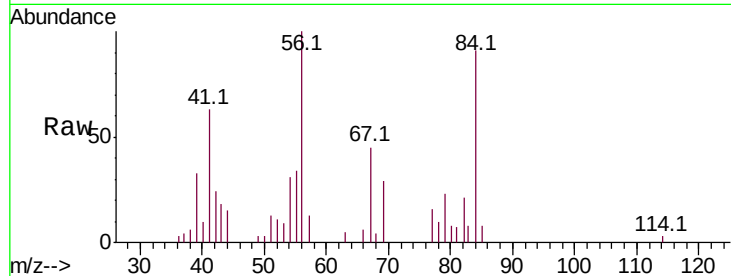
#30
Cyclohexane
Concen: 0.114 ppbv m
RT: 7.10 min Scan# 1343
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	0.0	42.1	63.1#

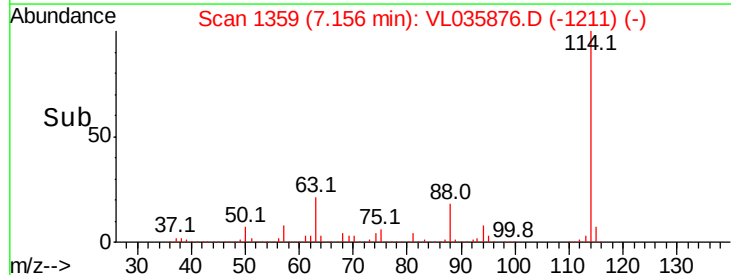
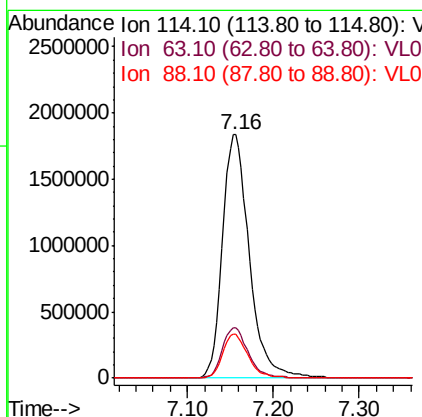
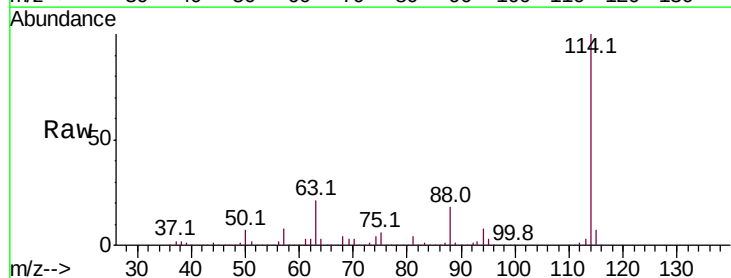
Manual Integrations
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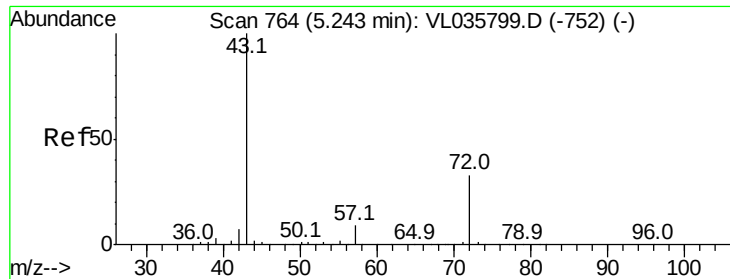
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11/9/2020 1:38:53 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.4	16.1	24.1
88	17.3	13.7	20.5





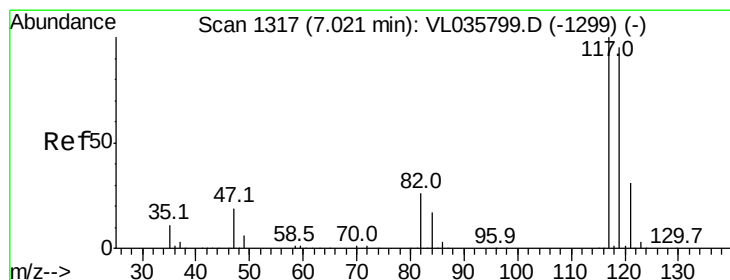
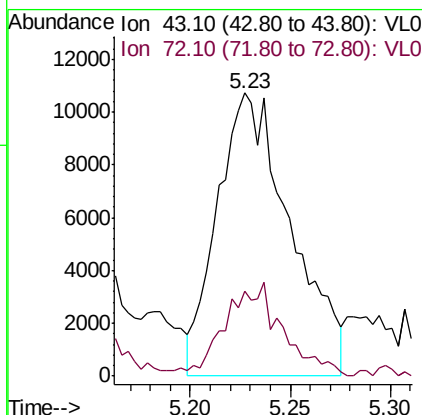
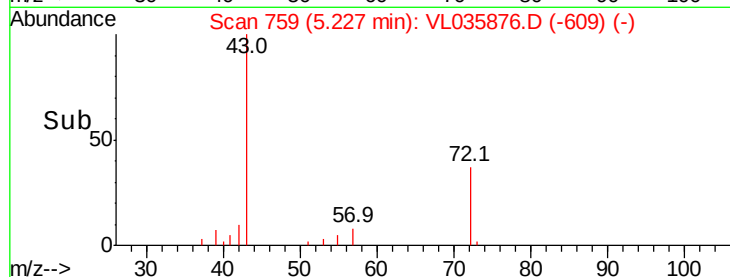
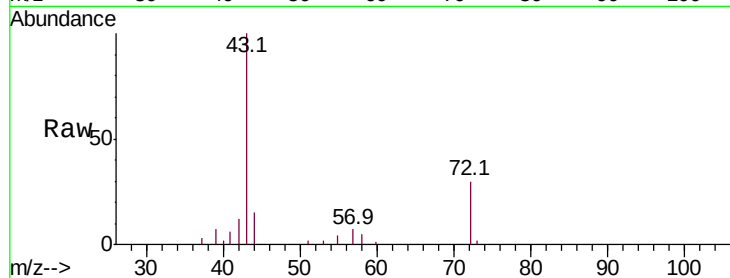
#34
2-Butanone
Concen: 0.212 ppbv m
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 43 Resp: 27496
Ion Ratio Lower Upper
43 100
72 0.0 26.5 39.7#

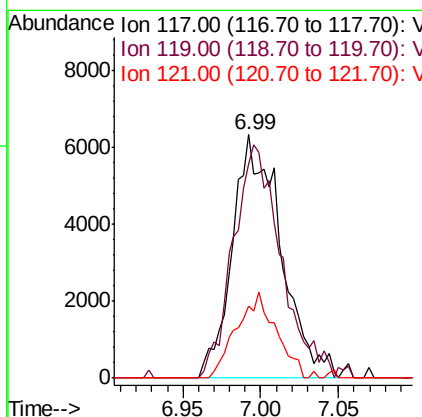
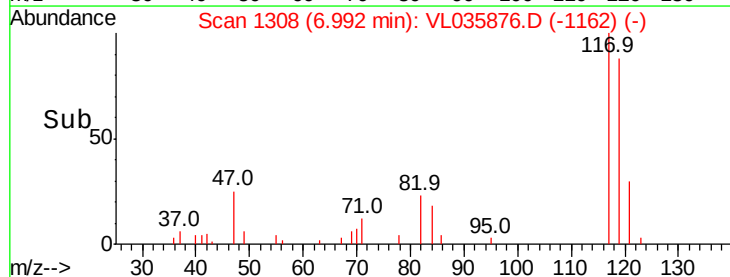
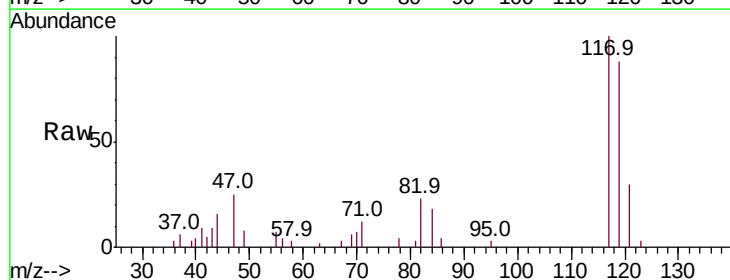
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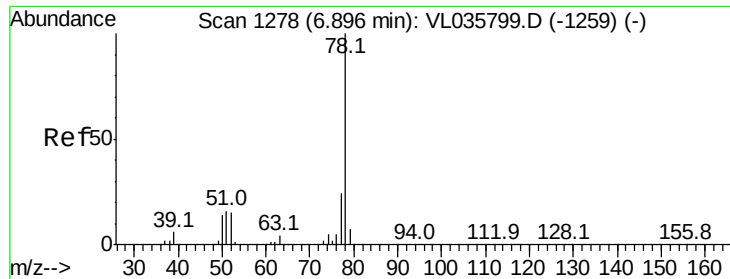
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11/9/2020 1:38:53 PM



#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 6.99 min Scan# 1308
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion: 117 Resp: 13655
Ion Ratio Lower Upper
117 100
119 88.0 75.6 113.4
121 29.7 25.1 37.7





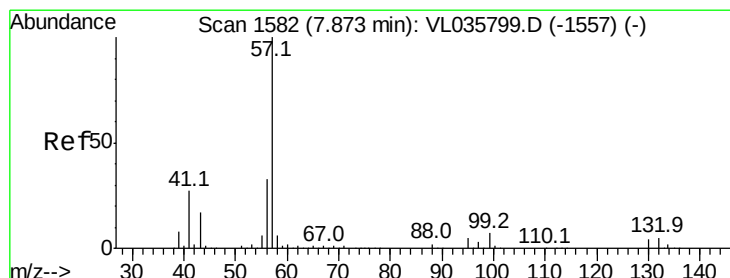
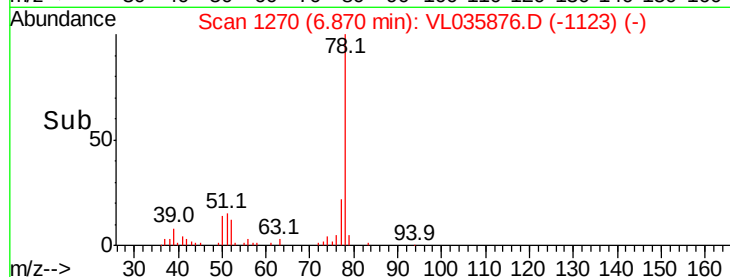
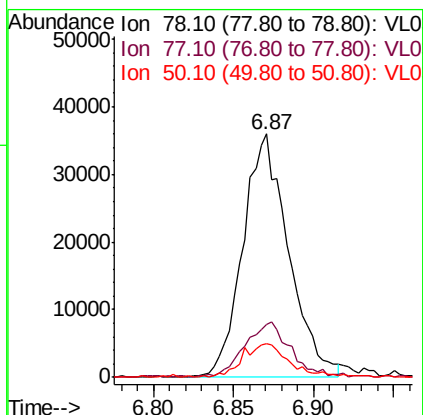
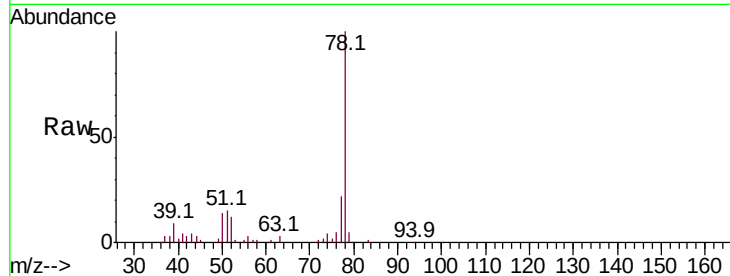
#36
Benzene
Concen: 0.237 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.3	28.9
50	13.3	11.4	17.2

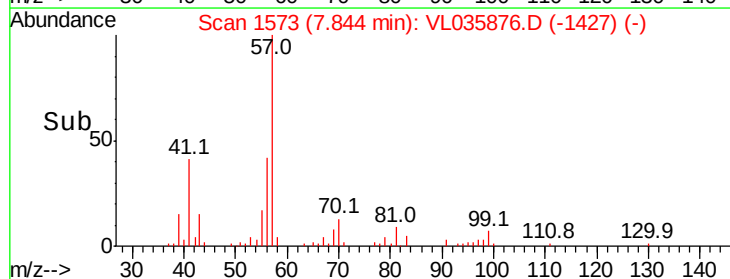
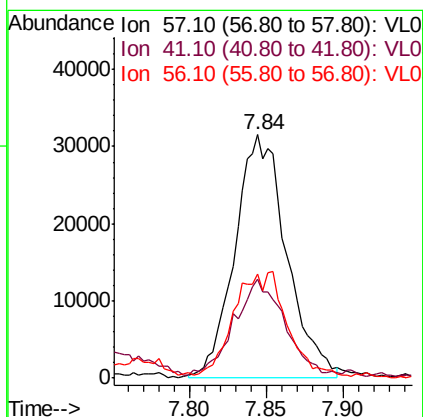
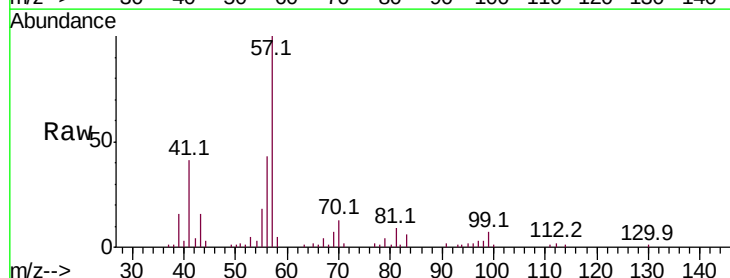
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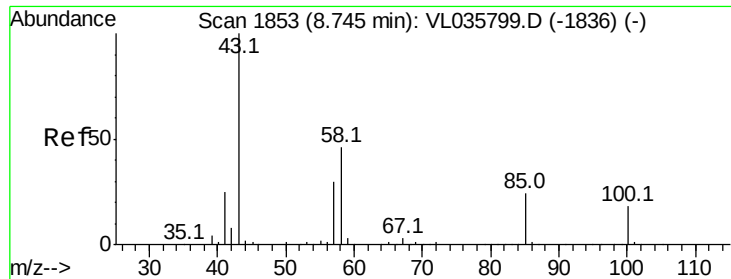
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11/9/2020 1:38:53 PM



#44
2,2,4-Trimethylpentane
Concen: 0.187 ppbv m
RT: 7.84 min Scan# 1573
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	21.0	31.4#
56	46.8	25.4	38.0#





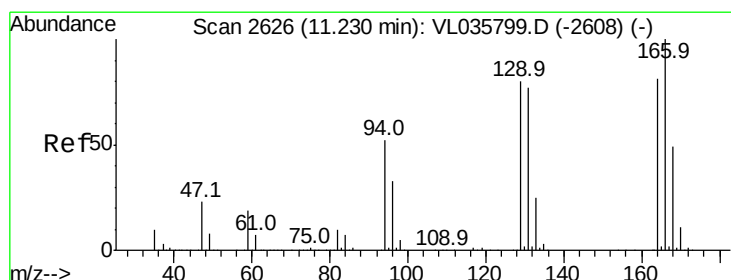
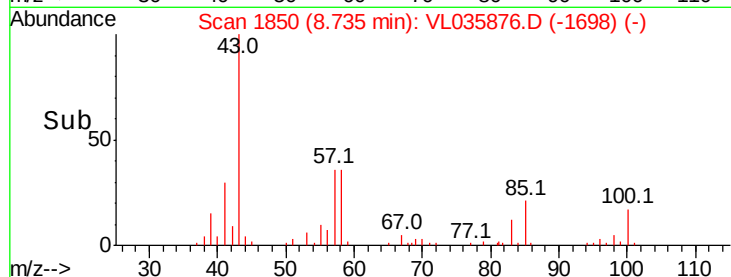
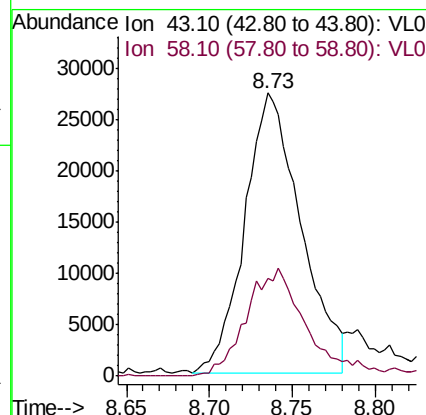
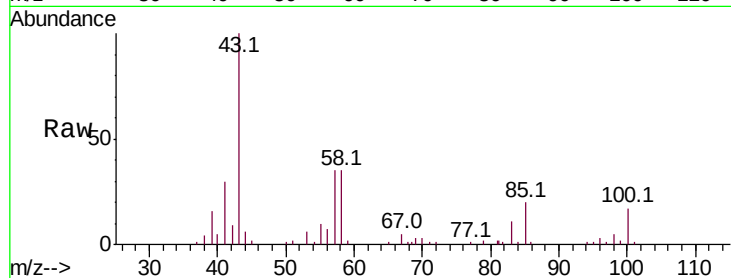
#50
4-Methyl-2-Pentanone
Concen: 0.324 ppbv
RT: 8.73 min Scan# 1850
Delta R.T. -0.01 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 43 Resp: 64273
Ion Ratio Lower Upper
43 100
58 43.5 36.0 54.0

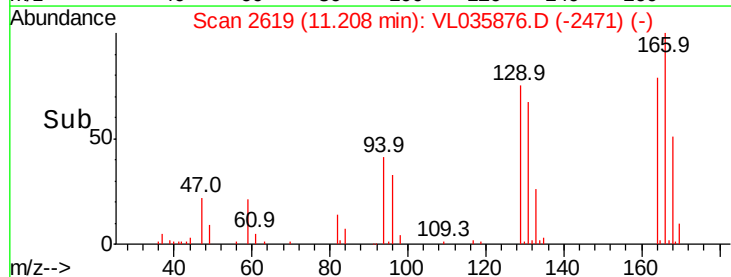
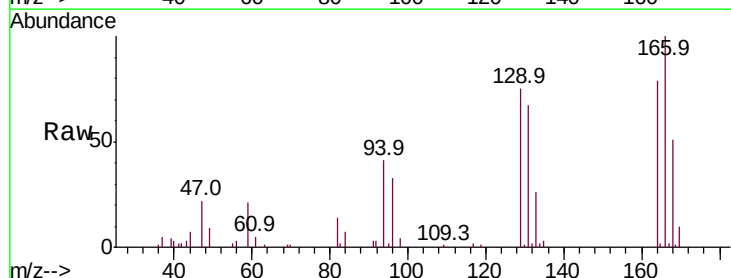
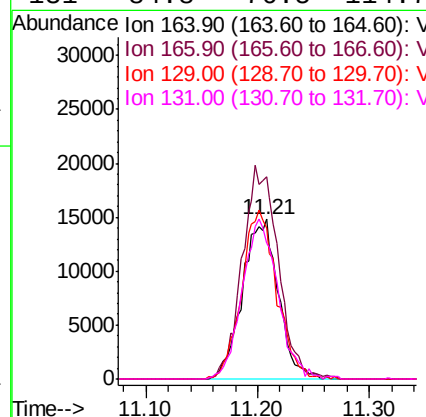
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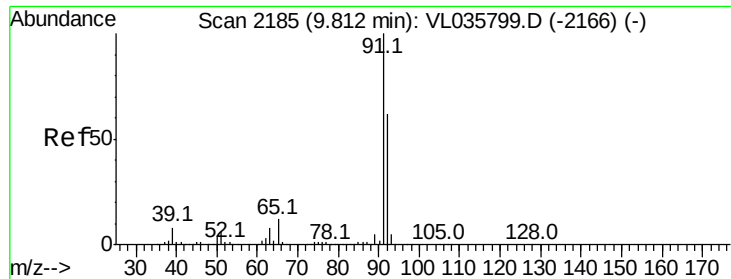
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11/9/2020 1:38:53 PM



#52
Tetrachloroethene
Concen: 0.236 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion: 164 Resp: 33133
Ion Ratio Lower Upper
164 100
166 126.8 99.3 148.9
129 94.8 79.3 118.9
131 84.8 76.5 114.7





#53

Toluene

Concen: 27.888 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 91 Resp: 9986618

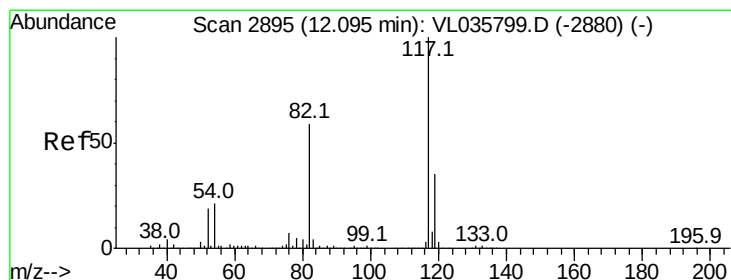
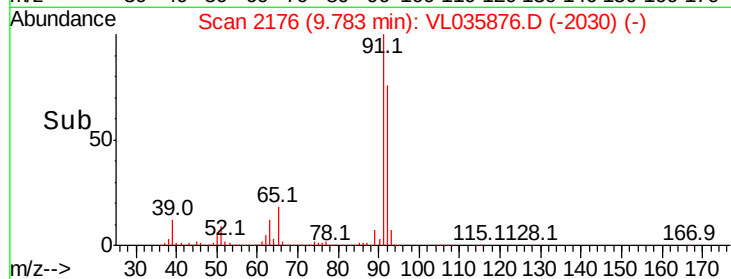
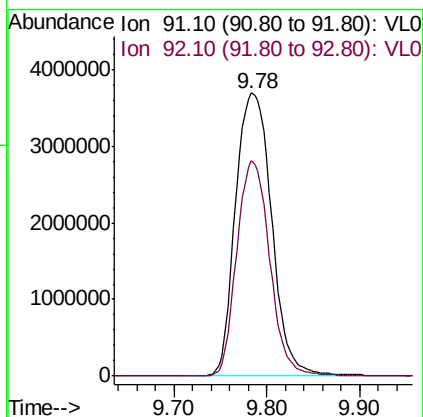
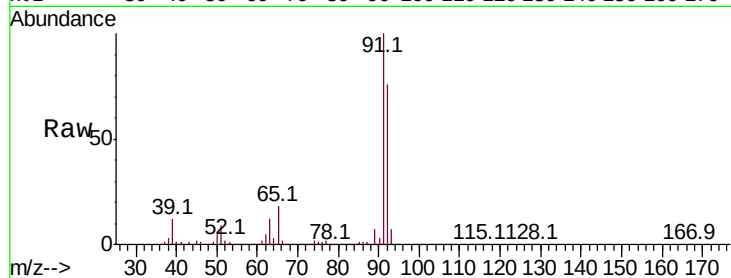
Ion Ratio Lower Upper

91 100

92 69.9 49.8 74.6

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11/9/2020 1:38:53 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035876.D

Acq: 6 Nov 2020 1:46

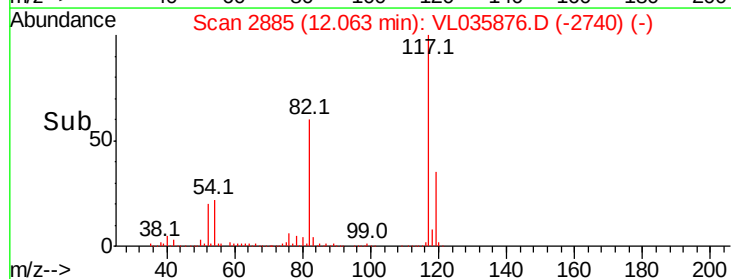
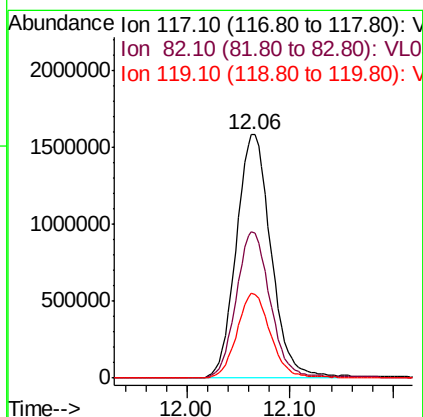
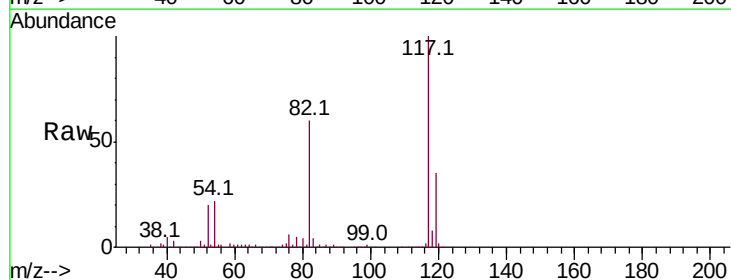
Tgt Ion: 117 Resp: 3706624

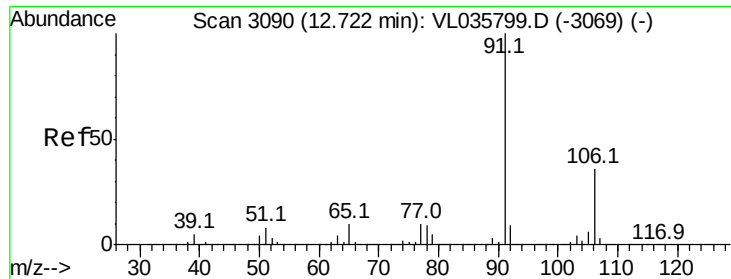
Ion Ratio Lower Upper

117 100

82 60.5 50.6 76.0

119 34.1 52.6 78.8#





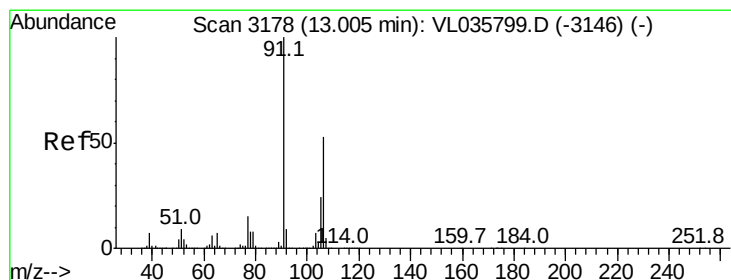
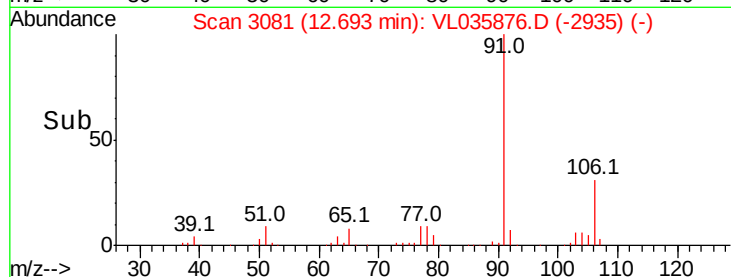
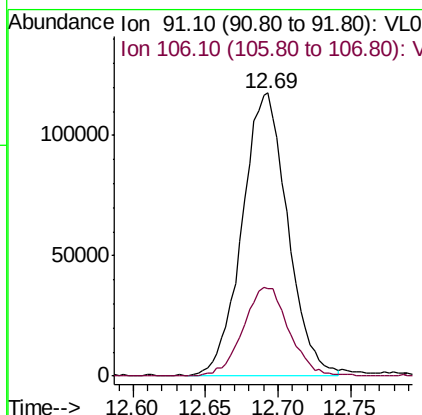
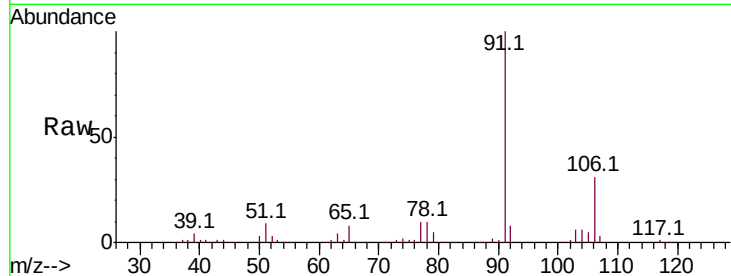
#58
Ethyl Benzene
Concen: 0.567 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 91 Resp: 255901
Ion Ratio Lower Upper
91 100
106 31.2 28.6 43.0

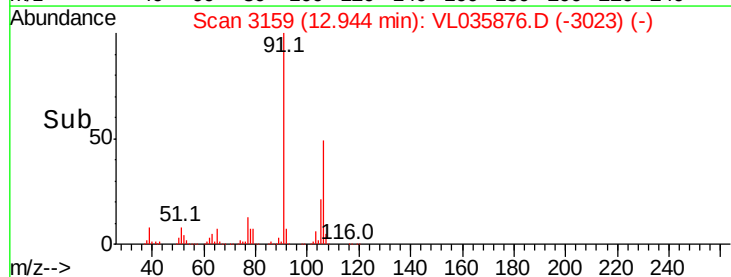
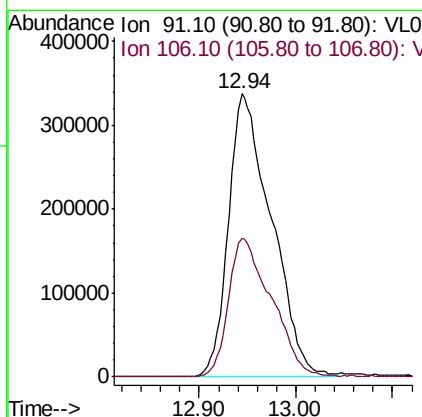
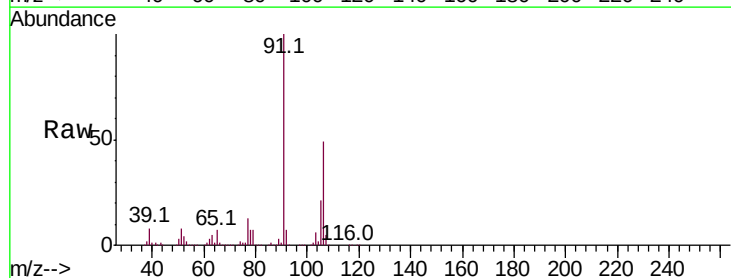
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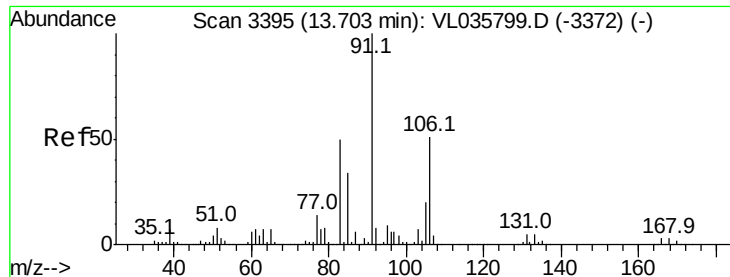
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11/9/2020 1:38:53 PM



#59
m/p-Xylene
Concen: 2.703 ppbv
RT: 12.94 min Scan# 3159
Delta R.T. -0.06 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion: 91 Resp: 1032586
Ion Ratio Lower Upper
91 100
106 49.8 39.5 59.3





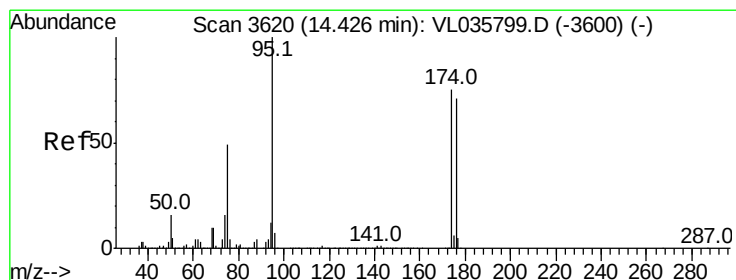
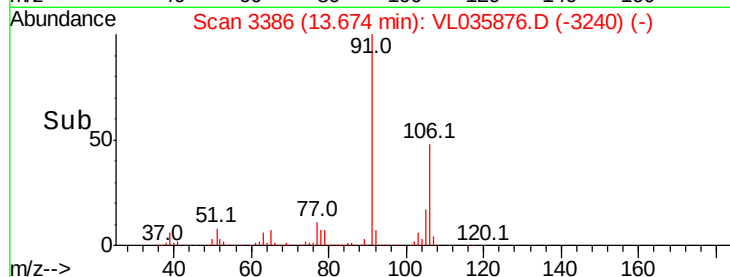
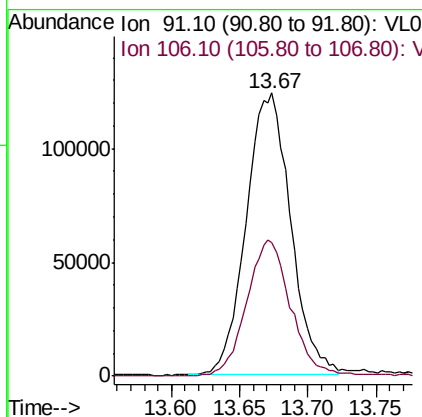
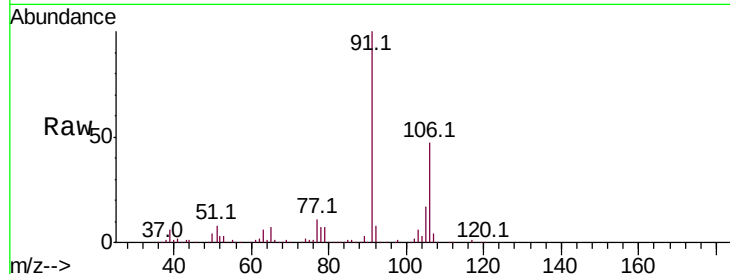
#60
o-Xylene
Concen: 0.756 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 91 Resp: 280764
Ion Ratio Lower Upper
91 100
106 48.3 24.8 74.4

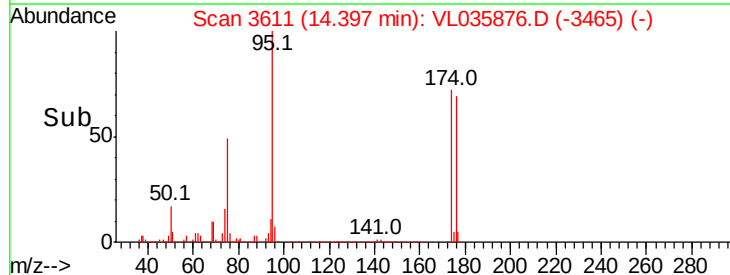
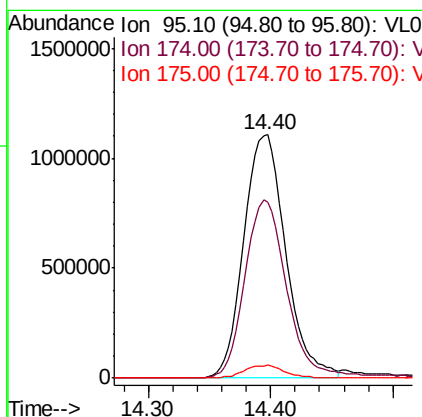
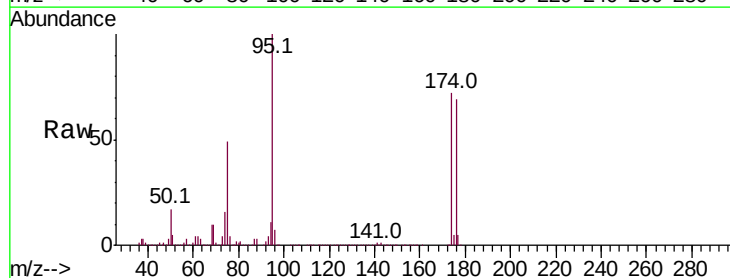
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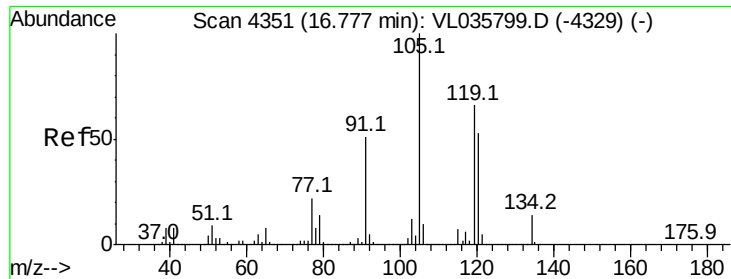
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.024 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL035876.D
Acq: 6 Nov 2020 1:46

Tgt Ion: 95 Resp: 2639900
Ion Ratio Lower Upper
95 100
174 75.2 59.8 89.6
175 5.3 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.179 ppbv
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.03 min
 Lab File: VL035876.D
 Acq: 6 Nov 2020 1:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tot Ion	Ratio	Resp: Lower	Upper
105	100		
120	39.8	42.0	63.0#
91	8.5	41.0	61.6#
77	10.5	17.3	25.9#

Manual Integrations
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