

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035877.D
 Acq On : 6 Nov 2020 2:28
 Operator : SY/AP
 Sample : L4618-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Manual Integrations
 APPROVED

MMDadoda
 11/9/2020 1:38:56 PM

Quant Time: Nov 08 18:46:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1081611	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4015194	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3705142	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2672814	10.15	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	52015	0.255	ppbv	98
3) Chlorodifluoromethane	2.97	51	46515	0.359	ppbv #	89
4) Chloromethane	3.12	50	30095	0.478	ppbv	96
9) Propene	3.00	41	707901m	14.932	ppbv	
10) Heptane	8.10	43	104383	0.797	ppbv	98
11) Trichlorofluoromethane	3.93	101	60663	0.237	ppbv	93
13) Ethanol	3.59	45	136529m	13.275	ppbv	
15) Acetone	3.83	43	12426467	107.464	ppbv #	82
20) Methylene Chloride	4.33	84	152003	1.867	ppbv	99
26) Hexane	5.66	57	157491	1.254	ppbv #	46
29) Chloroform	5.74	83	76522	0.310	ppbv	94
30) Cyclohexane	7.14	84	20001m	0.146	ppbv	
34) 2-Butanone	5.23	43	19482	0.150	ppbv #	86
35) Carbon Tetrachloride	7.00	117	13050	0.061	ppbv	95
36) Benzene	6.87	78	70105	0.235	ppbv	98
44) 2,2,4-Trimethylpentane	7.84	57	72699	0.184	ppbv #	69
50) 4-Methyl-2-Pentanone	8.73	43	74028m	0.372	ppbv	
52) Tetrachloroethene	11.20	164	33933m	0.240	ppbv	
53) Toluene	9.79	91	10084245	27.998	ppbv	90
58) Ethyl Benzene	12.69	91	261535	0.580	ppbv	90
59) m/p-Xylene	12.95	91	1032734	2.705	ppbv	99
60) o-Xylene	13.67	91	282986	0.762	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	75875	0.172	ppbv #	68

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

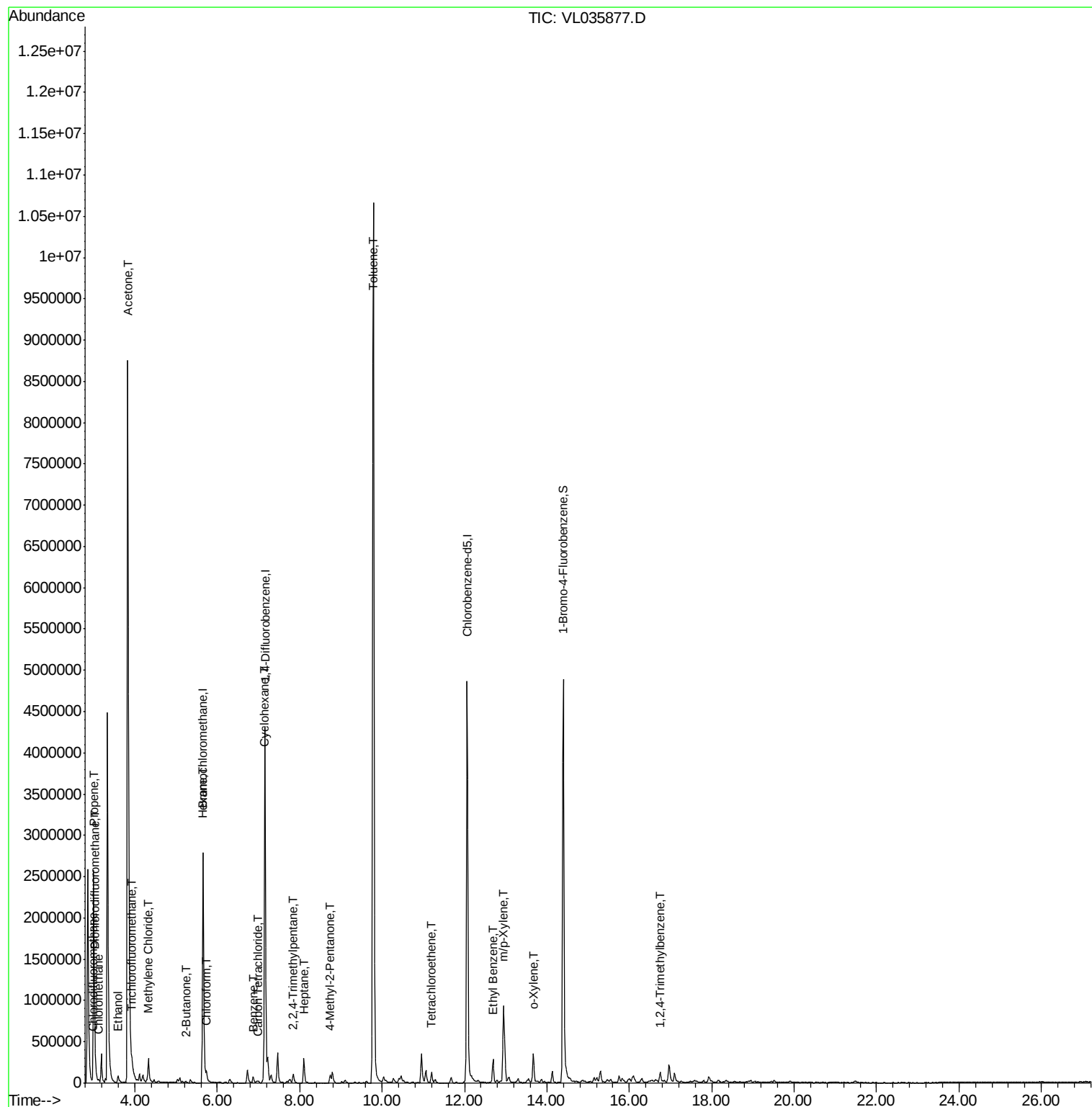
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
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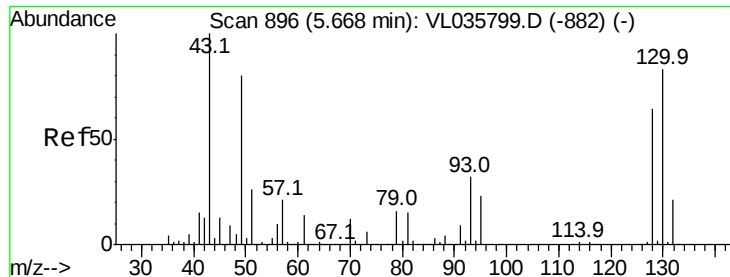
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

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Quant Time: Nov 08 18:46:07 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: VL035877.D

Acq: 6 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tot Ion: 49 Resp: 1081611

Ion Ratio Lower Upper

49 100

128 79.1 41.5 124.6

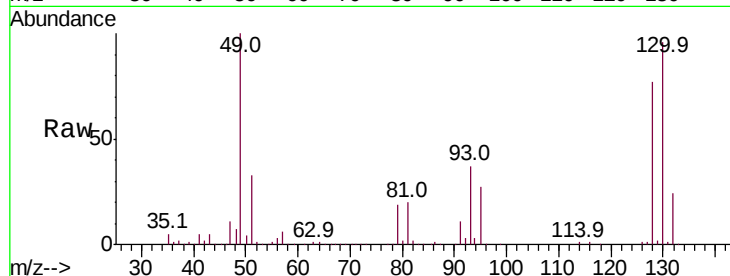
130 101.7 53.7 161.1

Manual Integrations

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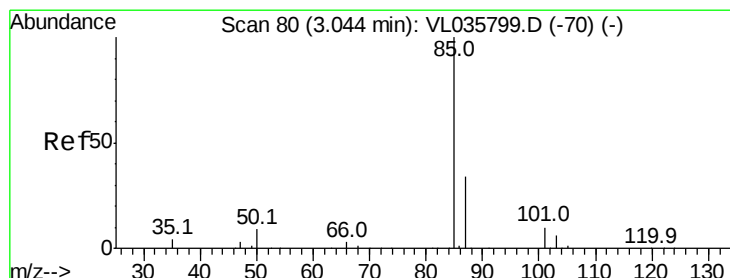
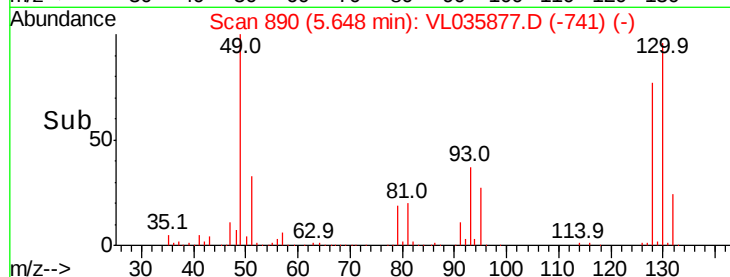
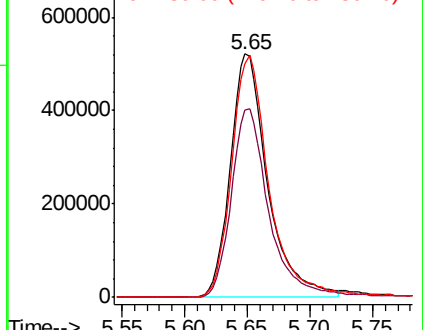
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.255 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035877.D

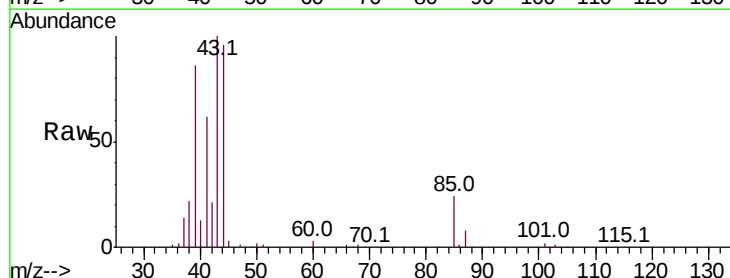
Acq: 6 Nov 2020 2:28

Tgt Ion: 85 Resp: 52015

Ion Ratio Lower Upper

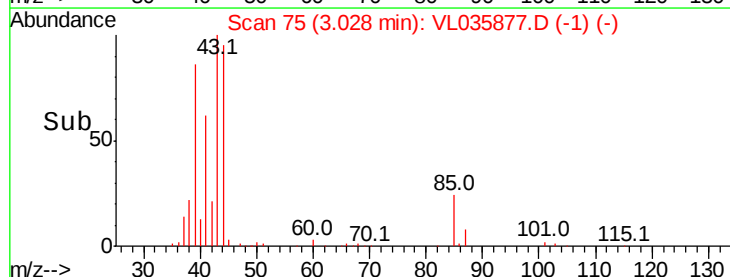
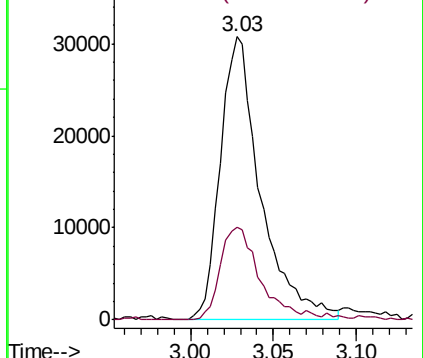
85 100

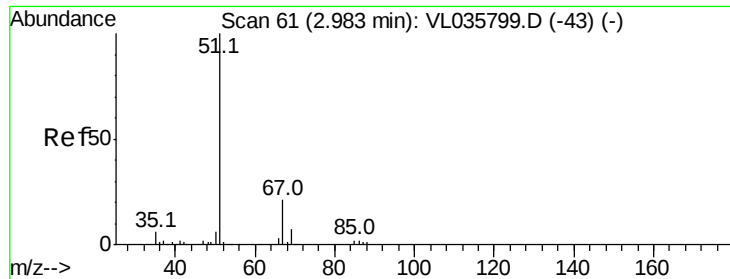
87 32.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.359 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035877.D

Acq: 6 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tot Ion: 51 Resp: 46515

Ion Ratio Lower Upper

51 100

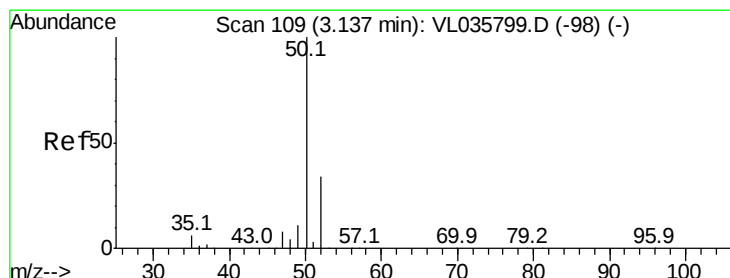
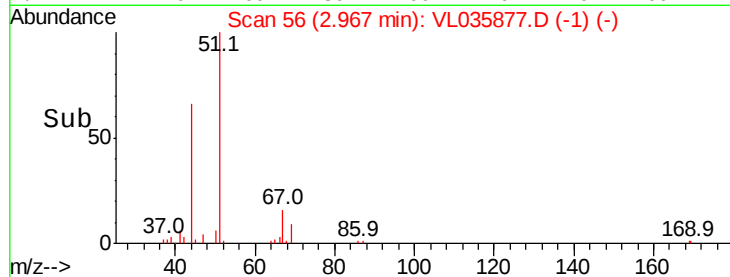
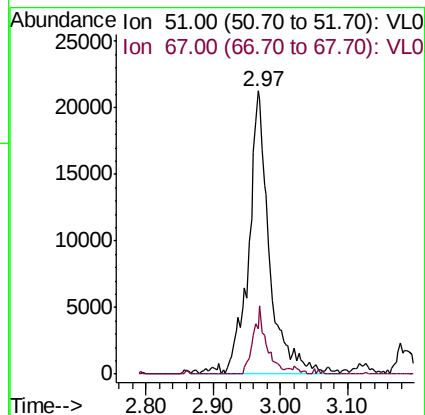
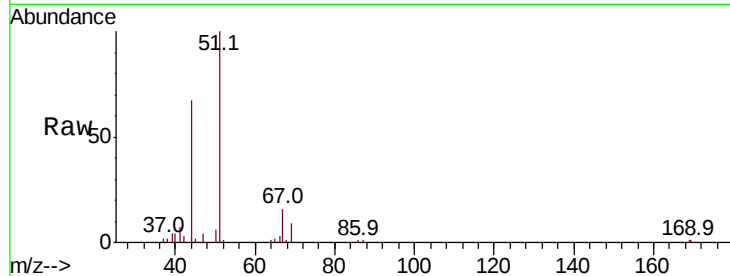
67 16.2 17.0 25.4#

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#4

Chloromethane

Concen: 0.478 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035877.D

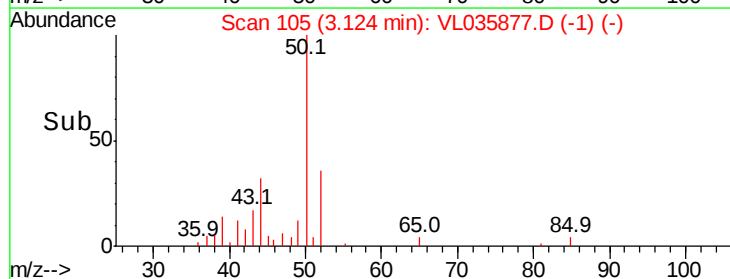
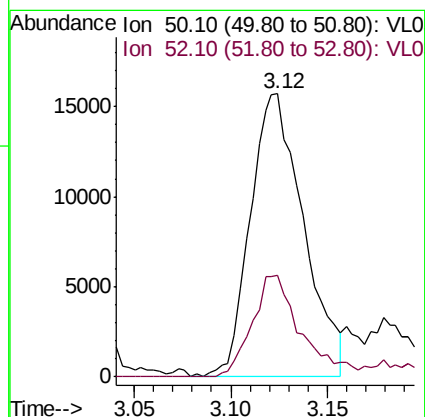
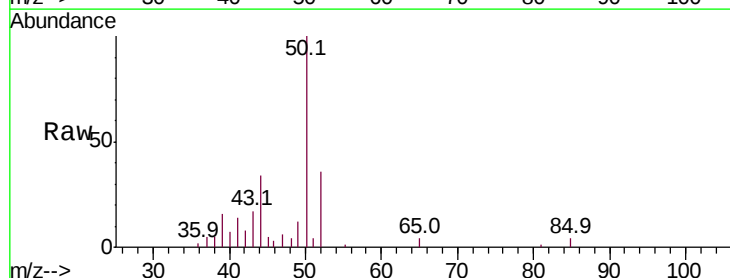
Acq: 6 Nov 2020 2:28

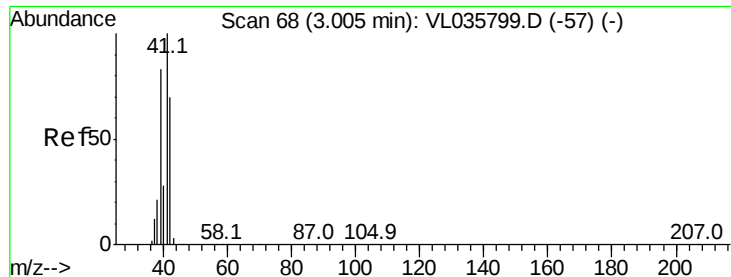
Tgt Ion: 50 Resp: 30095

Ion Ratio Lower Upper

50 100

52 36.0 27.1 40.7





#9

Propene

Concen: 14.932 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035877.D

Acq: 6 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tot Ion: 41 Resp: 707901

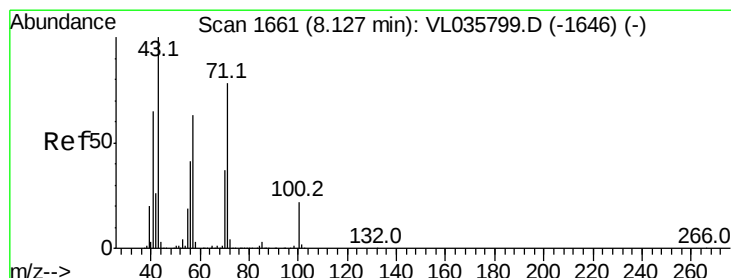
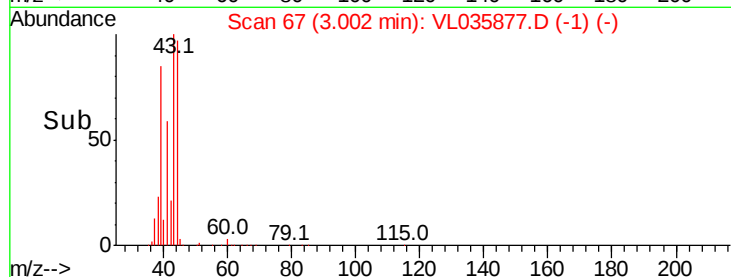
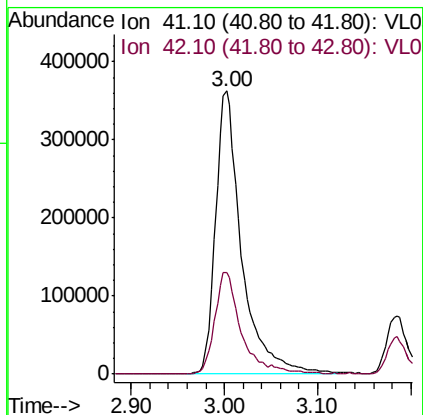
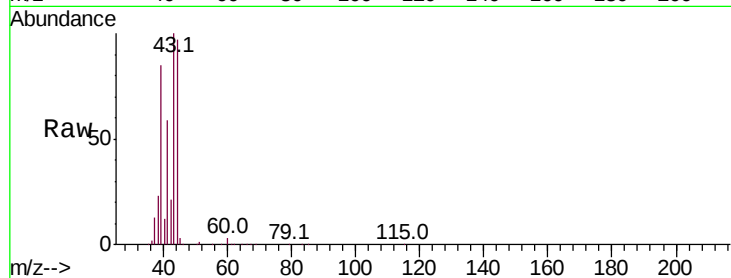
Ion Ratio Lower Upper

41 100

42 10.9 56.2 84.4#

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#10

Heptane

Concen: 0.797 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.03 min

Lab File: VL035877.D

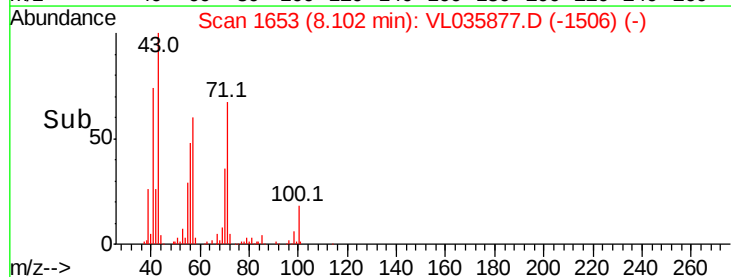
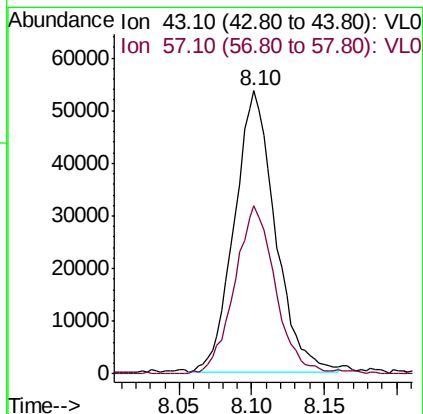
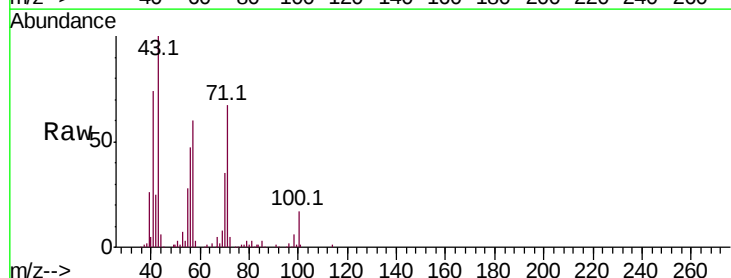
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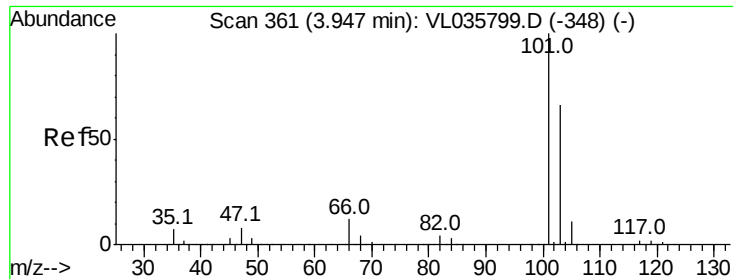
Tgt Ion: 43 Resp: 104383

Ion Ratio Lower Upper

43 100

57 60.8 50.0 75.0





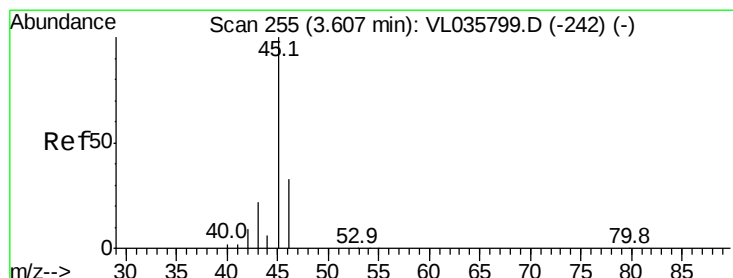
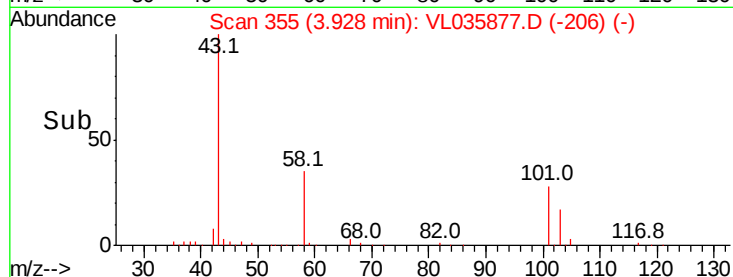
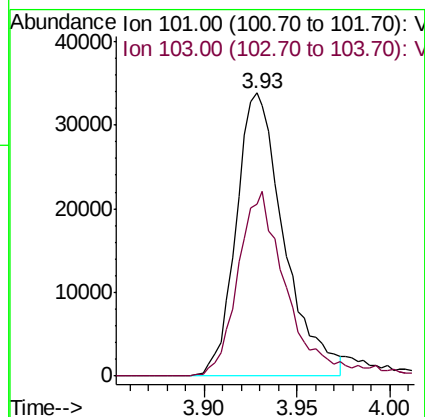
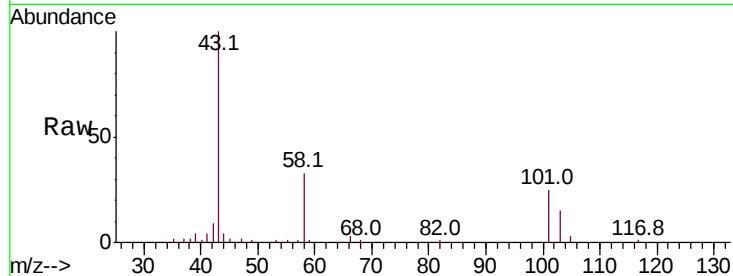
#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion:101 Resp: 60663
Ion Ratio Lower Upper
101 100
103 60.8 53.0 79.4

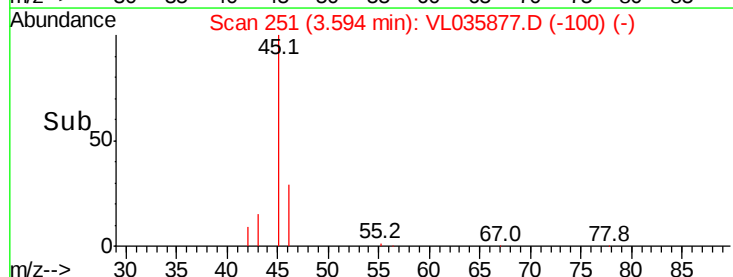
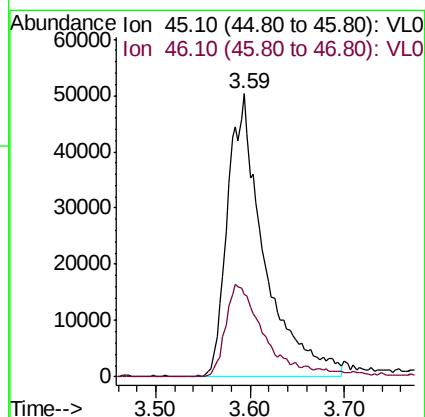
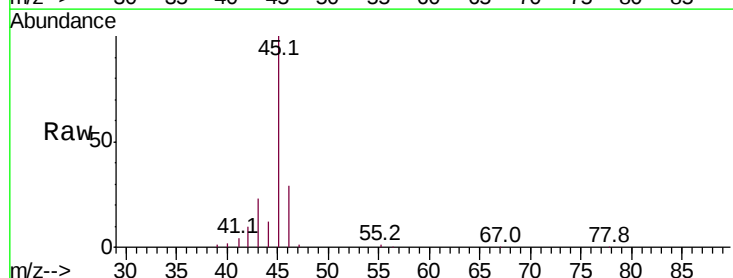
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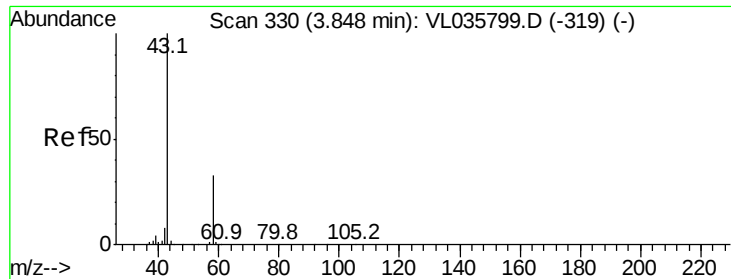
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#13
Ethanol
Concen: 13.275 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion: 45 Resp: 136529
Ion Ratio Lower Upper
45 100
46 0.0 16.1 64.5#





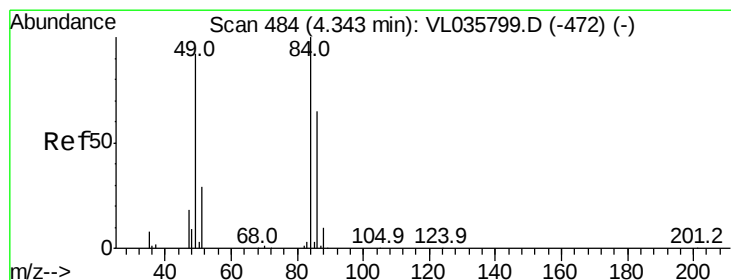
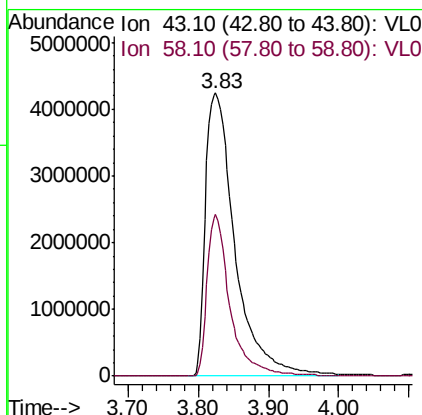
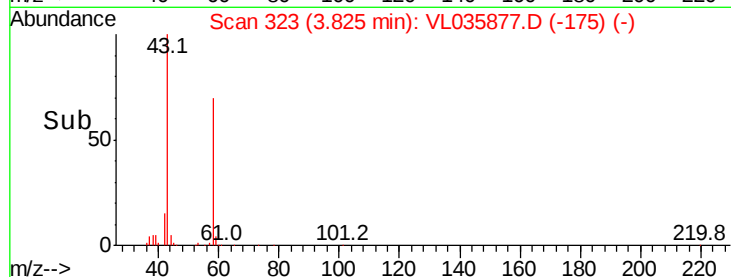
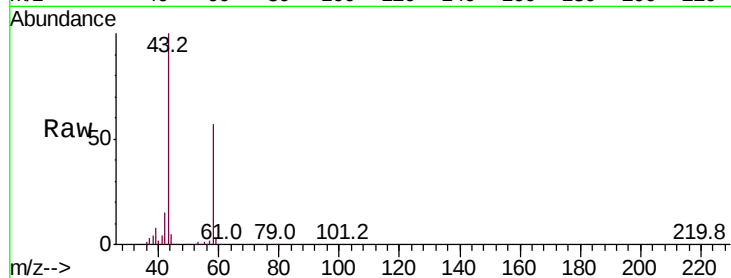
#15
Acetone
Concen: 107.464 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion: 43 Resp: 12426467
Ion Ratio Lower Upper
43 100
58 44.8 27.5 41.3#

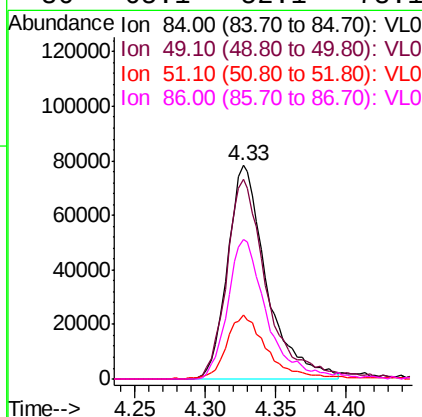
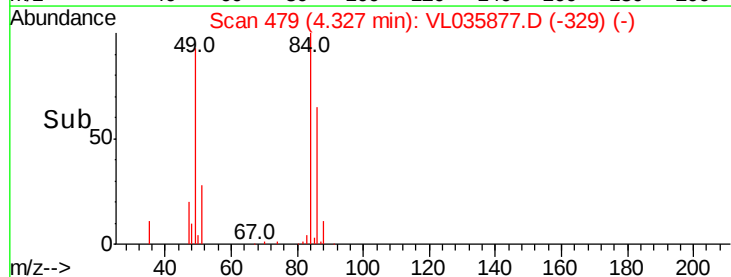
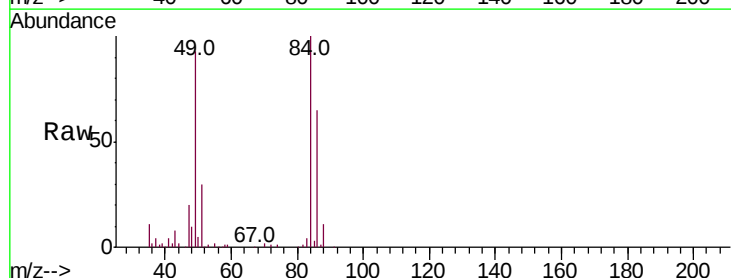
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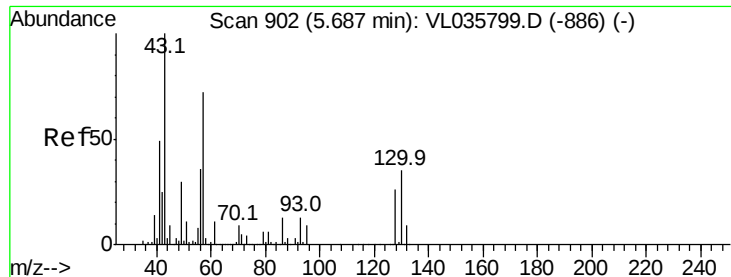
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#20
Methylene Chloride
Concen: 1.867 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion: 84 Resp: 152003
Ion Ratio Lower Upper
84 100
49 93.3 73.8 110.8
51 29.3 23.0 34.4
86 65.1 52.1 78.1





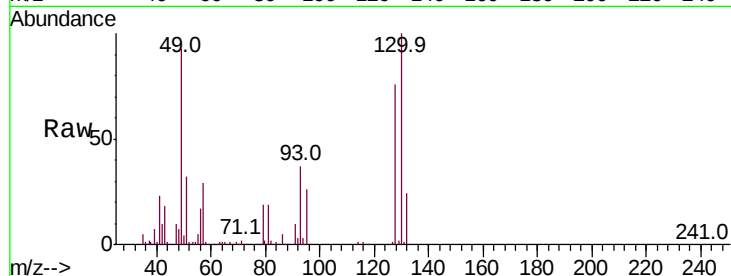
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Hexane
Concen: 1.254 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	83.0	58.9	88.3
43	66.6	150.2	225.2#
56	60.8	42.4	63.6

Manual Integrations
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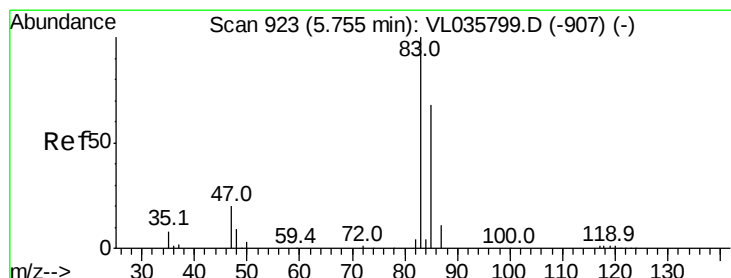
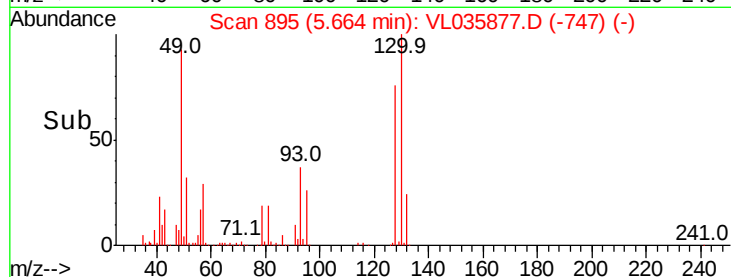
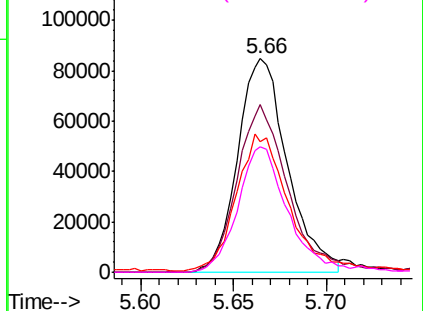
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

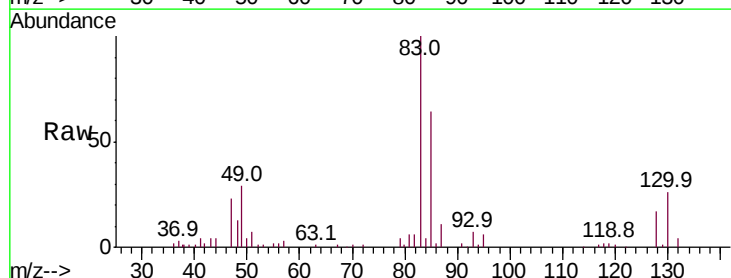
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.310 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

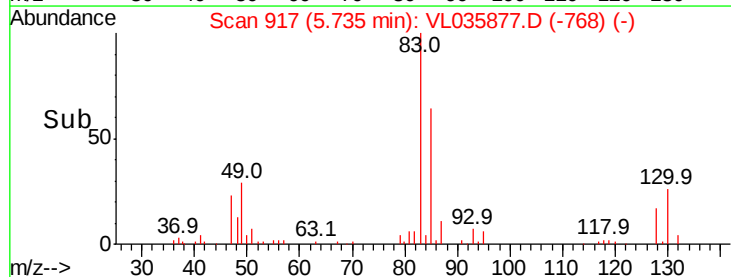
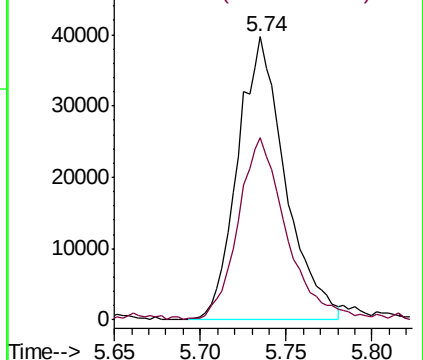
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	54.6	81.8

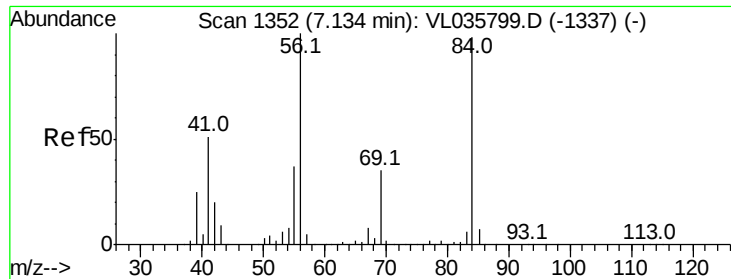


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





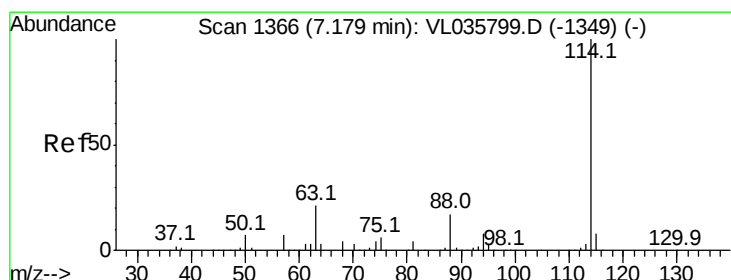
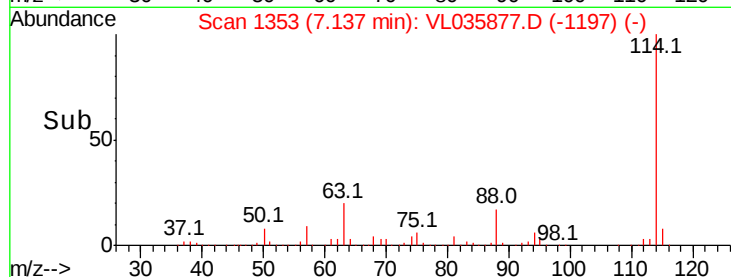
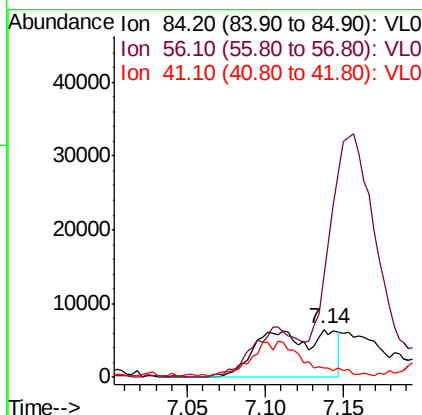
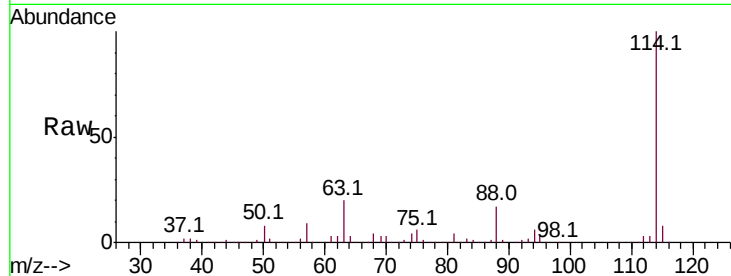
#30
Cvclohexane
Concen: 0.146 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	53.8	42.1	63.1

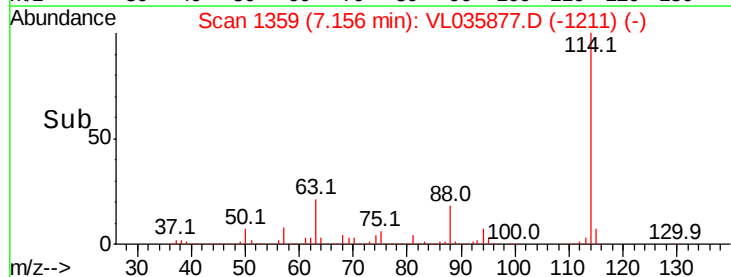
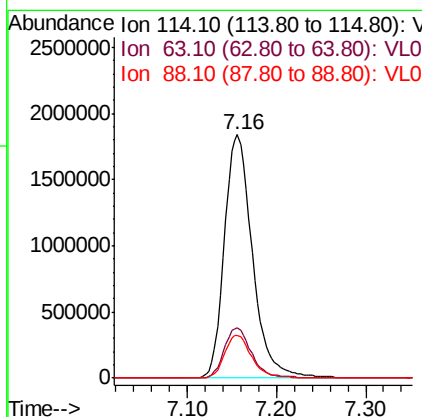
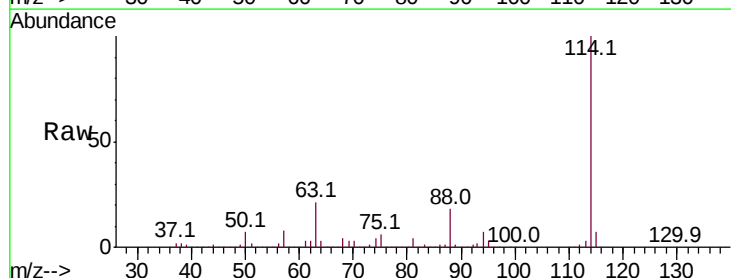
Manual Integrations
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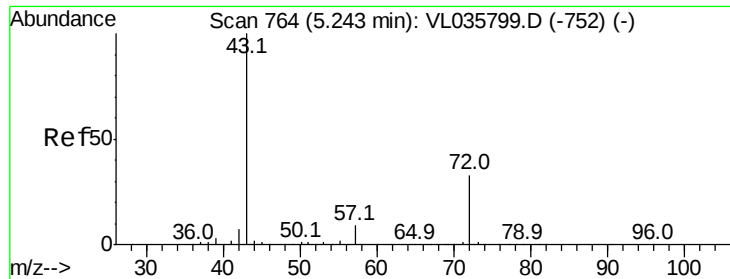
MMDadoda
11/9/2020 1:38:56 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	16.1	24.1
88	17.2	13.7	20.5





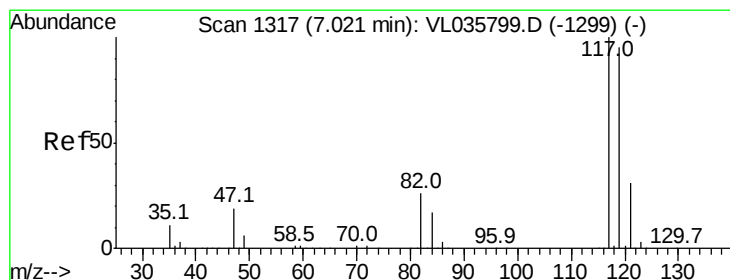
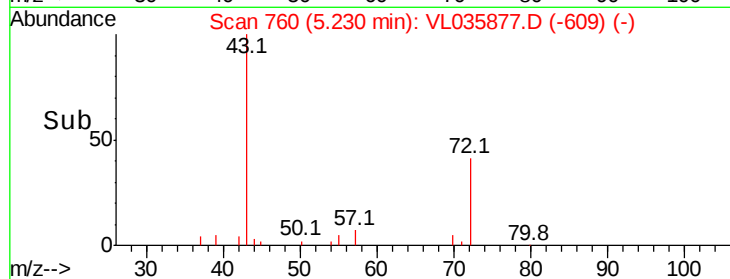
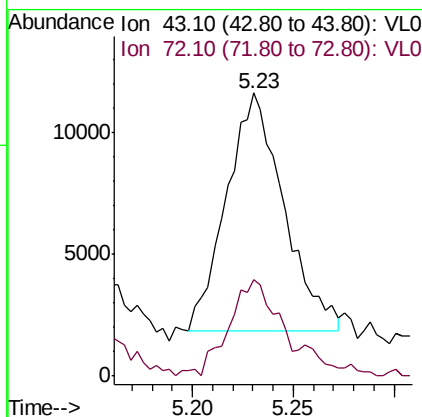
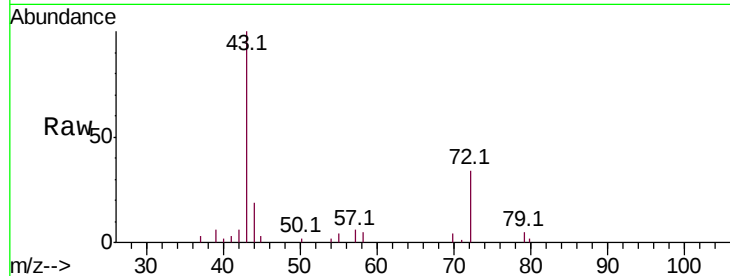
#34
2-Butanone
Concen: 0.150 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.01 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampled :
IA-2DUP

Tot Ion: 43 Resp: 19482
Ion Ratio Lower Upper
43 100
72 41.3 26.5 39.7#

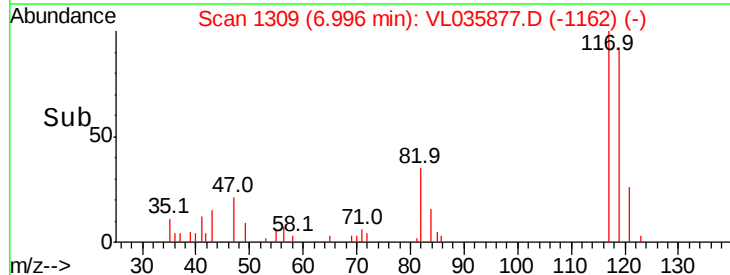
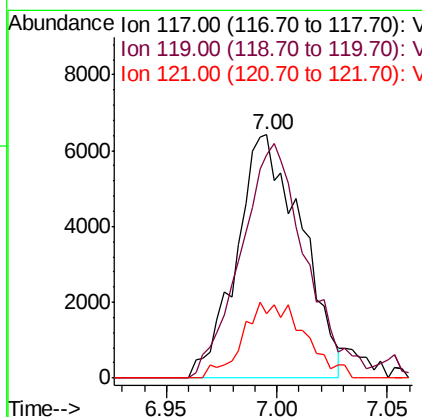
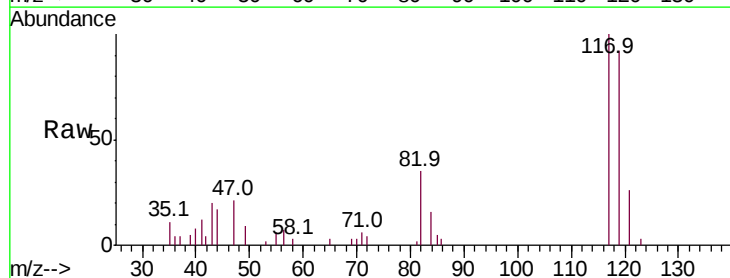
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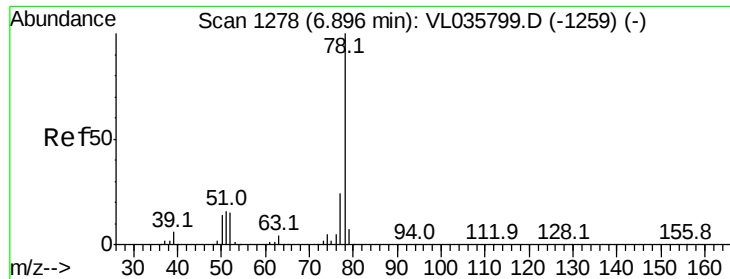
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#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion: 117 Resp: 13050
Ion Ratio Lower Upper
117 100
119 91.5 75.6 113.4
121 26.5 25.1 37.7





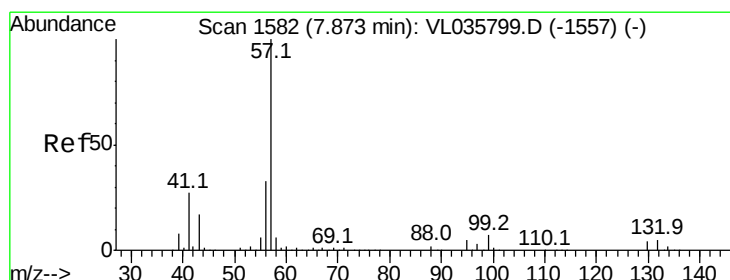
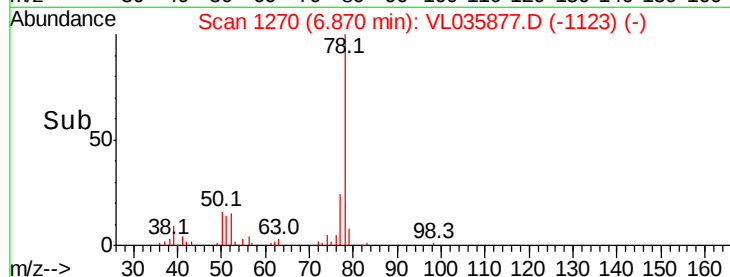
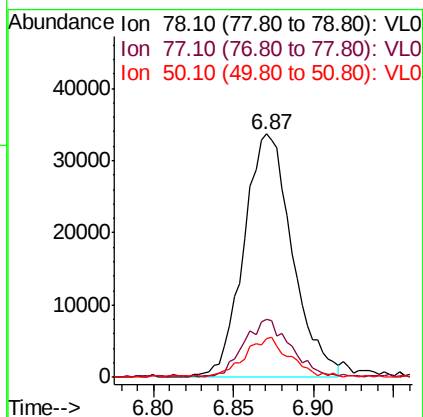
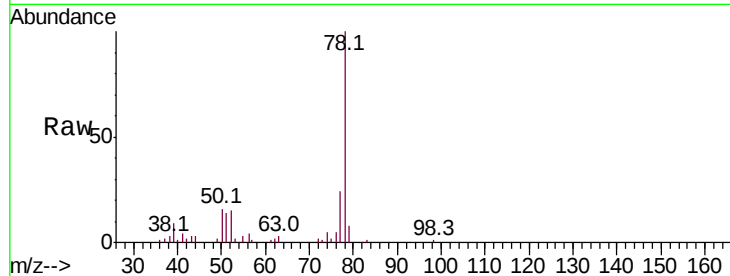
#36
Benzene
Concen: 0.235 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9
50	15.5	11.4	17.2

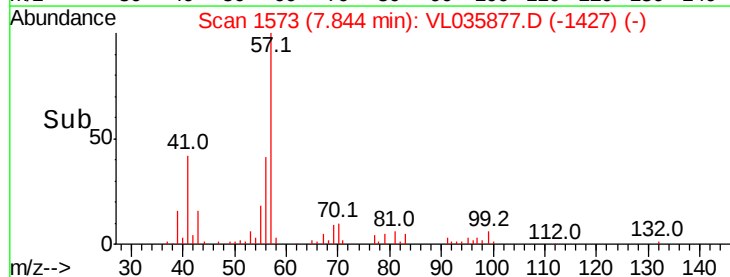
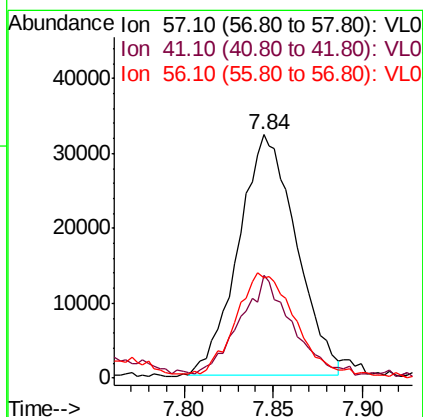
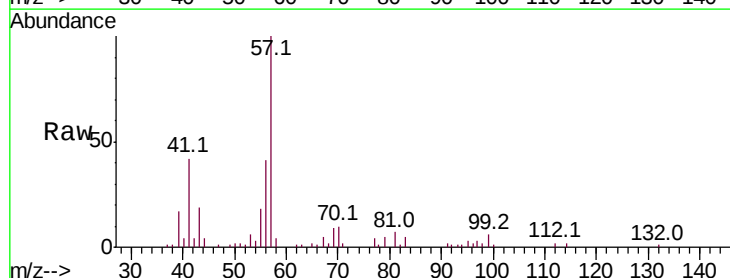
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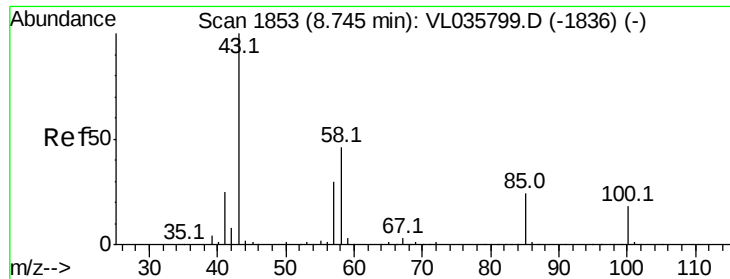
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#44
2,2,4-Trimethylpentane
Concen: 0.184 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.7	21.0	31.4#
56	47.1	25.4	38.0#





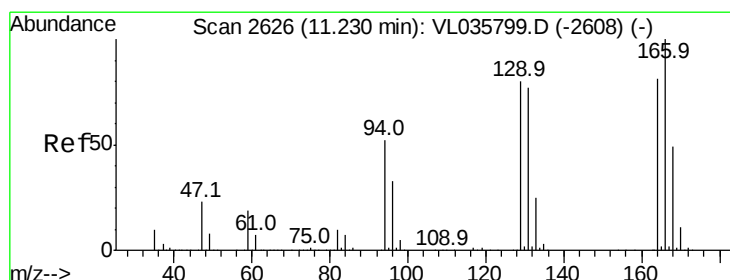
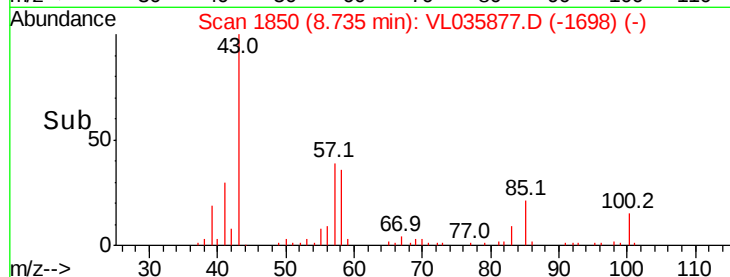
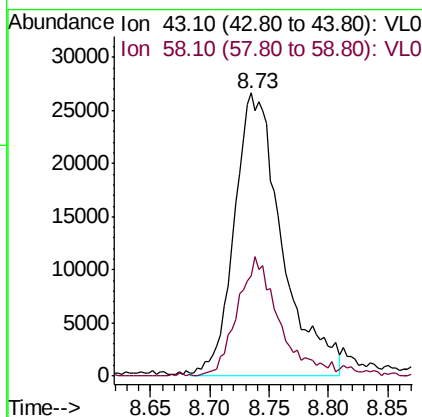
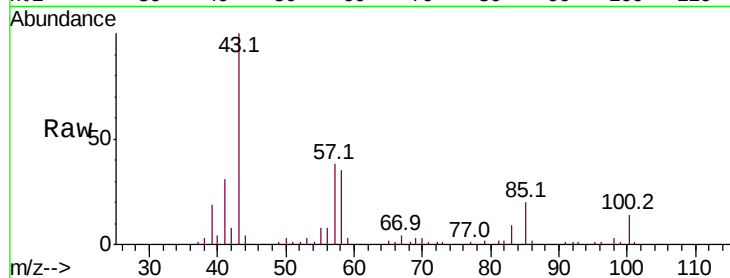
#50
4-Methyl-2-Pentanone
Concen: 0.372 ppbv m
RT: 8.73 min Scan# 1850
Delta R.T. -0.01 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion: 43 Resp: 74028
Ion Ratio Lower Upper
43 100
58 0.0 36.0 54.0#

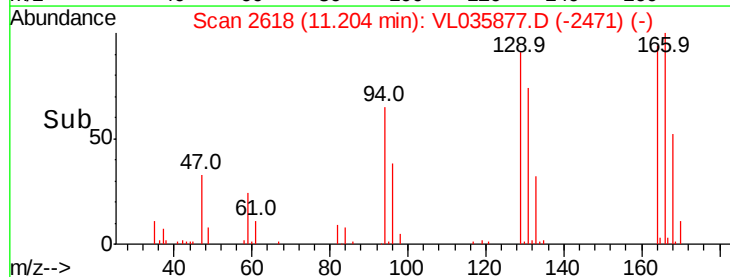
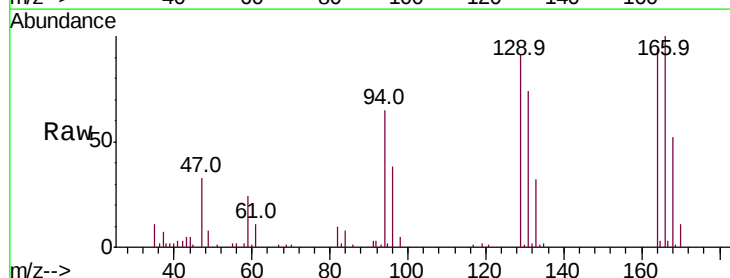
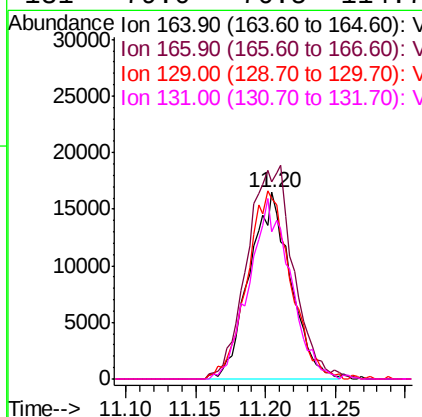
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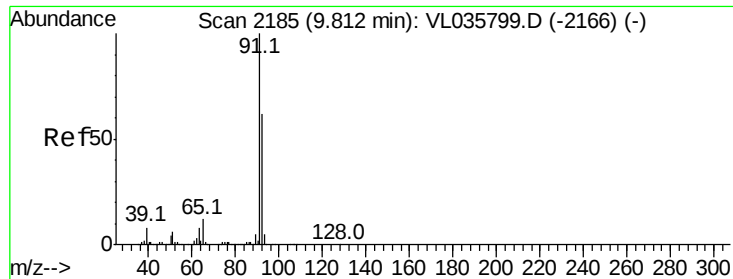
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#52
Tetrachloroethene
Concen: 0.240 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion: 164 Resp: 33933
Ion Ratio Lower Upper
164 100
166 106.0 99.3 148.9
129 96.8 79.3 118.9
131 79.0 76.5 114.7





#53

Toluene

Concen: 27.998 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL035877.D

Acq: 6 Nov 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tot Ion: 91 Resp: 10084245

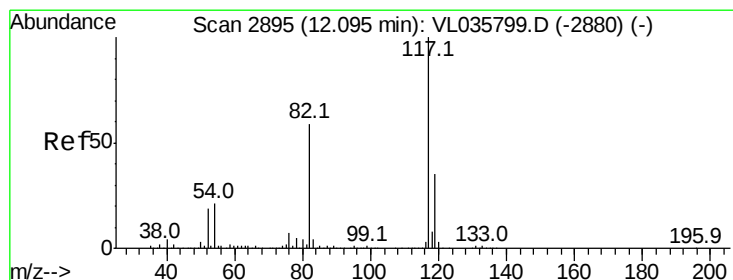
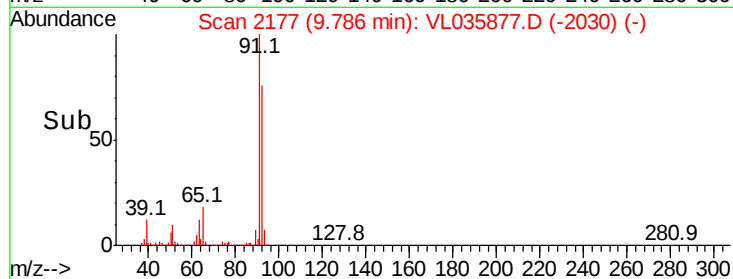
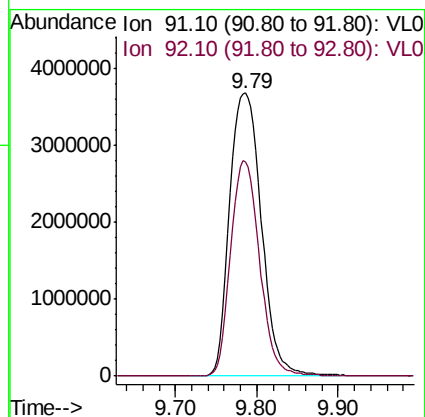
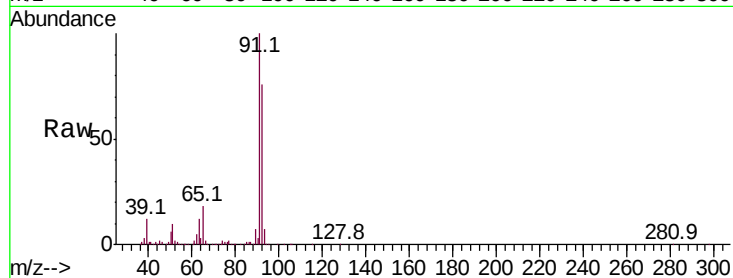
Ion Ratio Lower Upper

91 100

92 69.8 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035877.D

Acq: 6 Nov 2020 2:28

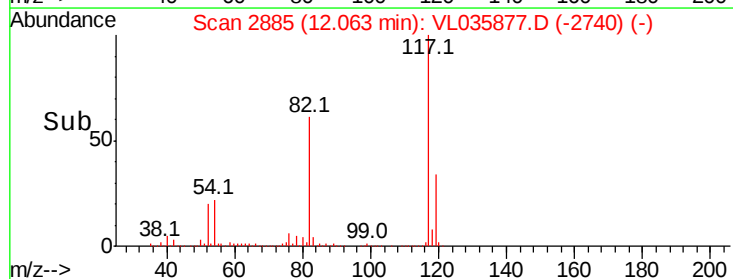
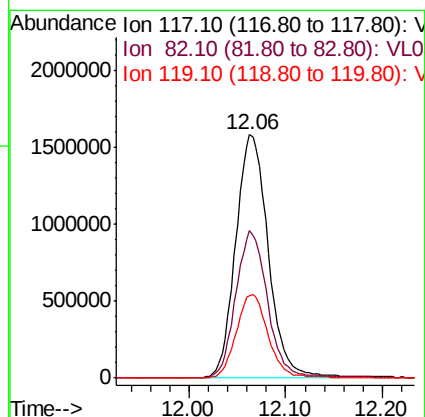
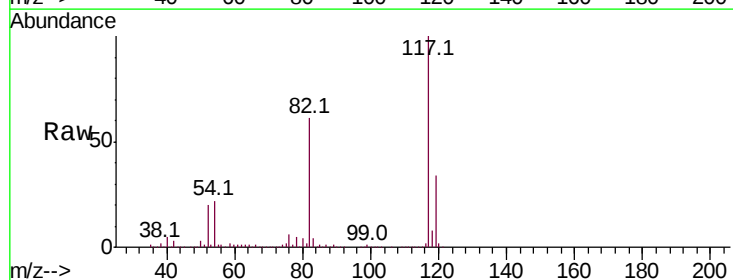
Tgt Ion: 117 Resp: 3705142

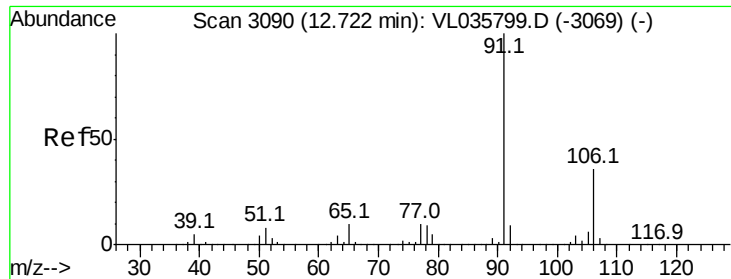
Ion Ratio Lower Upper

117 100

82 60.1 50.6 76.0

119 34.0 52.6 78.8#





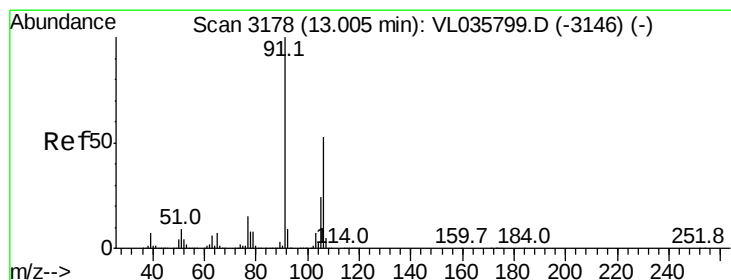
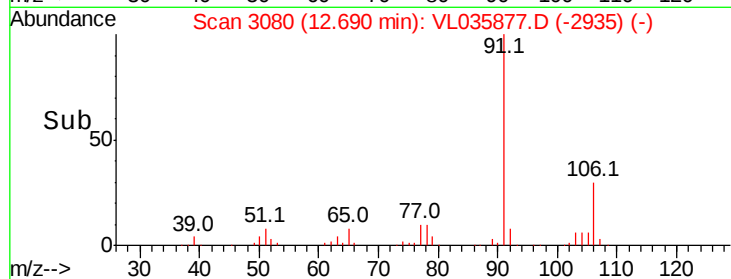
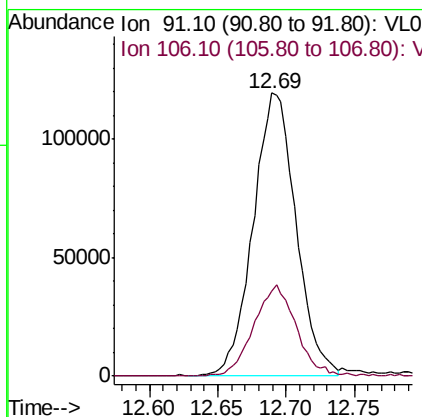
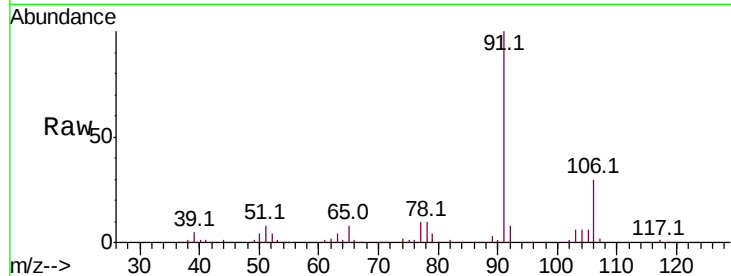
#58
Ethyl Benzene
Concen: 0.580 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampled :
IA-2DUP

Tot Ion: 91 Resp: 261535
Ion Ratio Lower Upper
91 100
106 29.9 28.6 43.0

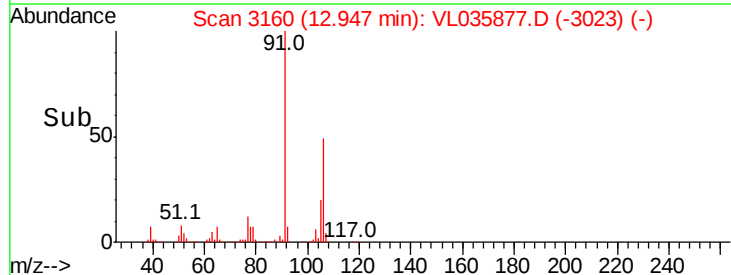
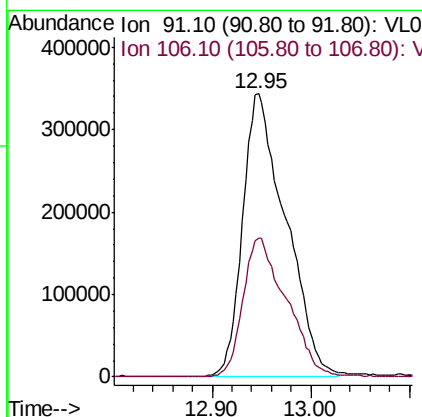
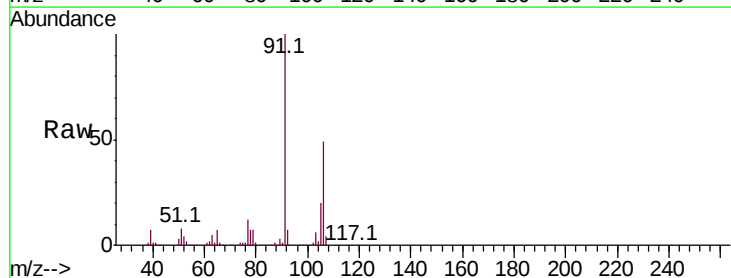
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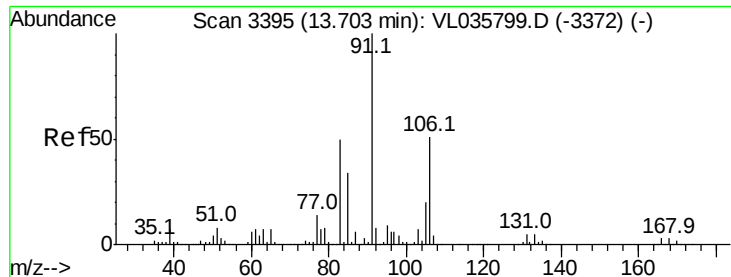
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#59
m/p-Xylene
Concen: 2.705 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion: 91 Resp: 1032734
Ion Ratio Lower Upper
91 100
106 49.9 39.5 59.3





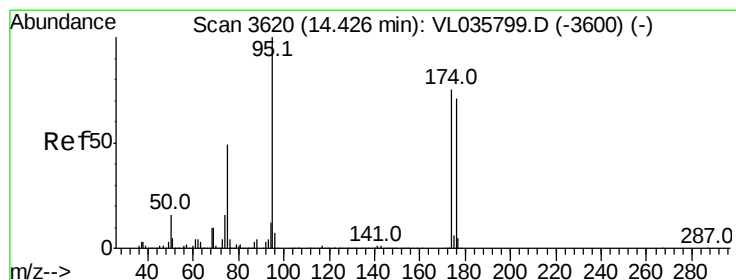
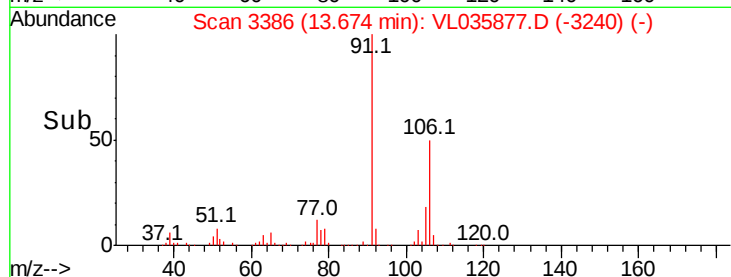
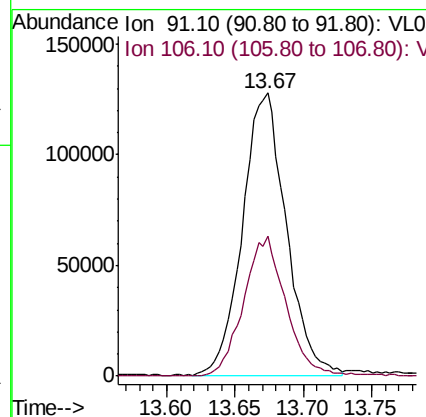
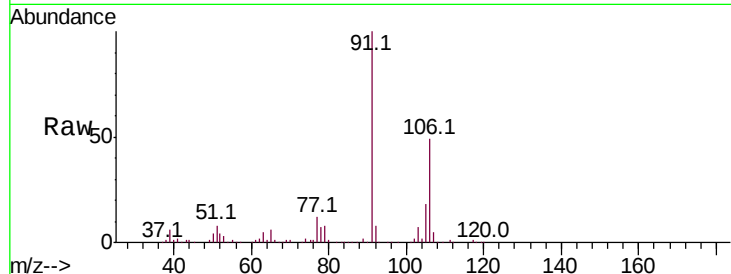
#60
o-Xylene
Concen: 0.762 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Instrument :
MSVOA_L
ClientSampled :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	48.4	24.8	74.4

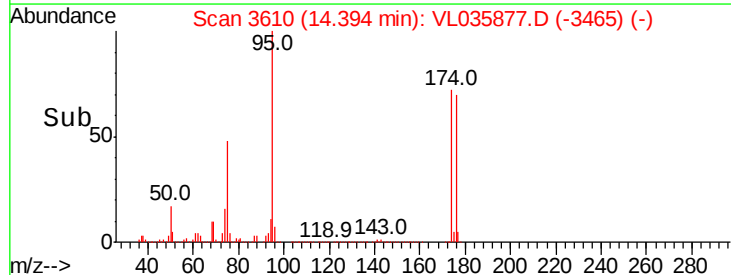
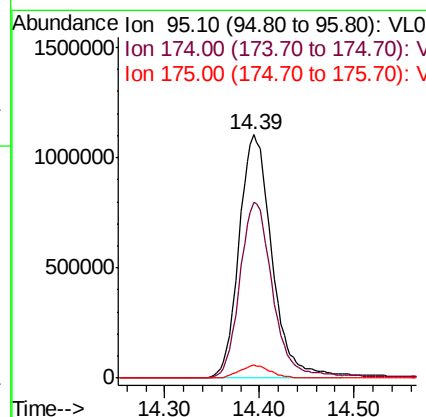
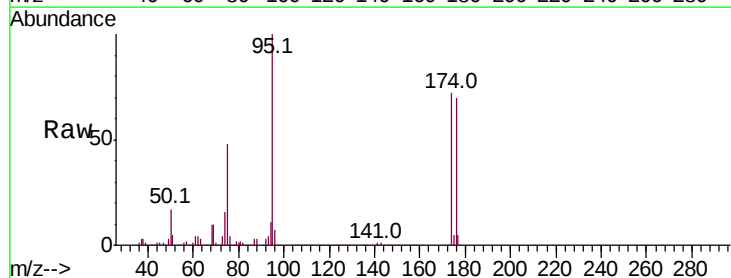
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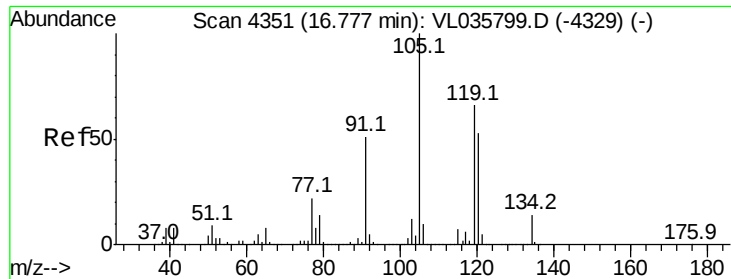
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.153 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.03 min
Lab File: VL035877.D
Acq: 6 Nov 2020 2:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.8	59.8	89.6
175	5.2	4.3	6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.172 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.03 min
 Lab File: VL035877.D
 Acq: 6 Nov 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	44.6	42.0	63.0
91	10.0	41.0	61.6#
77	12.2	17.3	25.9#

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