

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111020\
 Data File : VL035903.D
 Acq On : 11 Nov 2020 00:34
 Operator : SY/AP
 Sample : L4618-05DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2DUP

Manual Integrations
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 11/12/2020 9:03:20 AM

Quant Time: Nov 11 16:50:59 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	5.66	49	1138705	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3956417	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3589977	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2699878	10.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	53201	0.248	ppbv	96
3) Chlorodifluoromethane	2.97	51	43795	0.321	ppbv	94
4) Chloromethane	3.13	50	30528	0.461	ppbv	98
9) Propene	3.01	41	730644m	14.639	ppbv	
11) Trichlorofluoromethane	3.94	101	61566	0.229	ppbv	94
13) Ethanol	3.64	45	21131453	1951.585	ppbv	94
15) Acetone	3.83	43	3221147	26.460	ppbv	100
20) Methylene Chloride	4.33	84	495232	5.779	ppbv	95
26) Hexane	5.68	57	205755	1.556	ppbv #	48
29) Chloroform	5.74	83	58831	0.226	ppbv	90
34) 2-Butanone	5.24	43	31710	0.247	ppbv	99
35) Carbon Tetrachloride	7.01	117	11180	0.053	ppbv #	91
36) Benzene	6.88	78	36248	0.123	ppbv #	88
50) 4-Methyl-2-Pentanone	8.75	43	57342m	0.292	ppbv	
52) Tetrachloroethene	11.21	164	61045	0.438	ppbv	97
53) Toluene	9.80	91	691563	1.949	ppbv	96
58) Ethyl Benzene	12.71	91	48381	0.111	ppbv	91
59) m/p-Xylene	12.97	91	237996m	0.643	ppbv	
60) o-Xylene	13.69	91	72326	0.201	ppbv	96

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

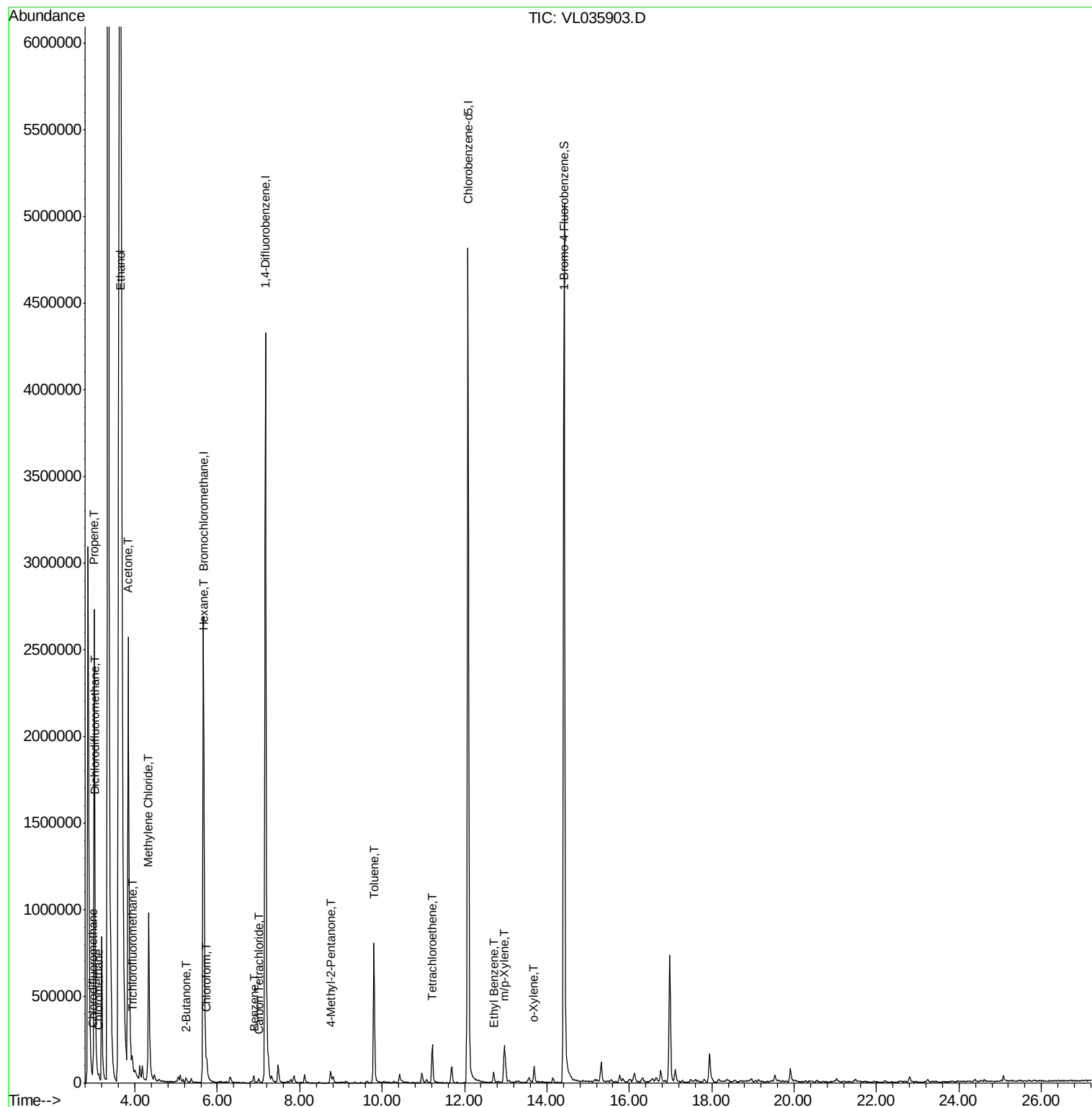
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111020\
Data File : VL035903.D
Acq On : 11 Nov 2020 00:34
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

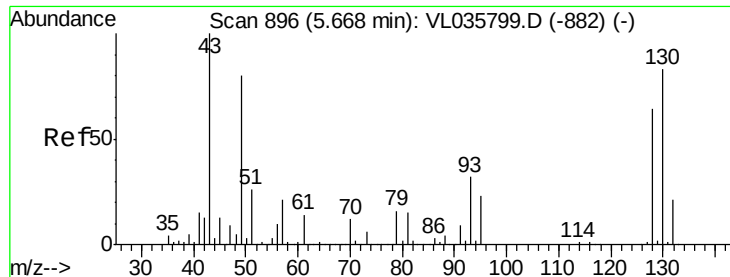
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

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Quant Time: Nov 11 16:50:59 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: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035903.D

Acq: 11 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2DUP

Tot Ion: 49 Resp: 1138705

Ion Ratio Lower Upper

49 100

128 76.1 41.5 124.6

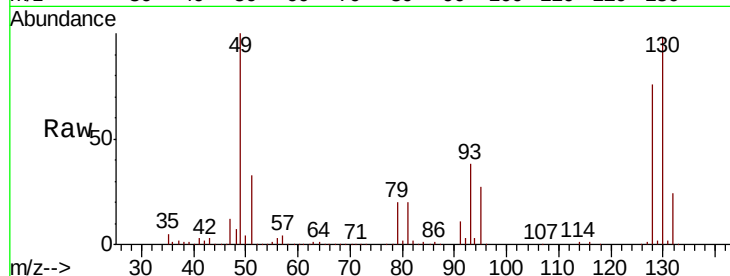
130 97.8 53.7 161.1

Manual Integrations

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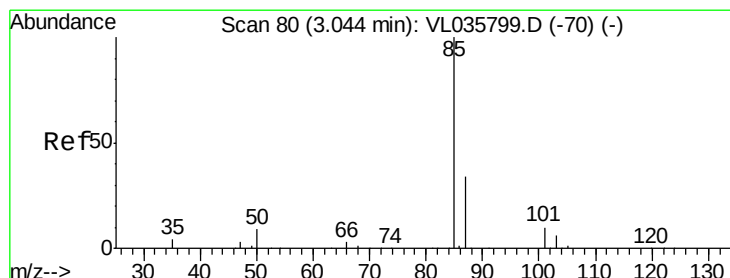
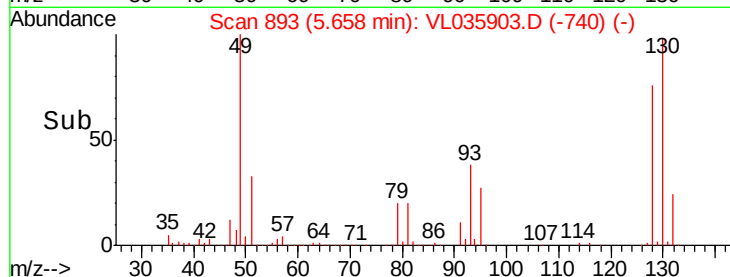
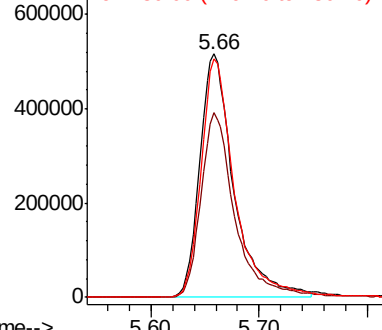
11/12/2020 9:03:20 AM



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: 0.248 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL035903.D

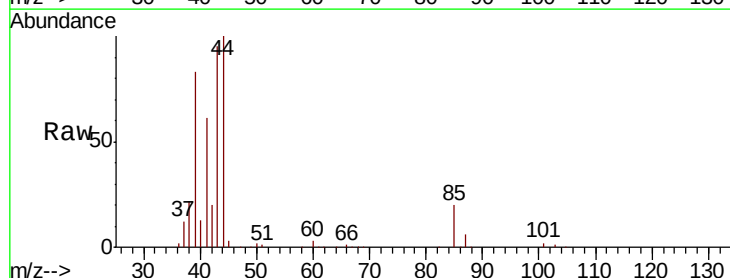
Acq: 11 Nov 2020 00:34

Tgt Ion: 85 Resp: 53201

Ion Ratio Lower Upper

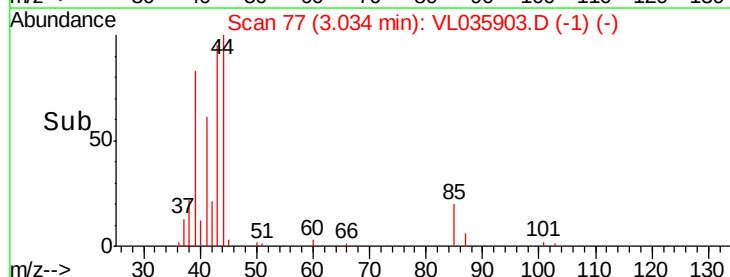
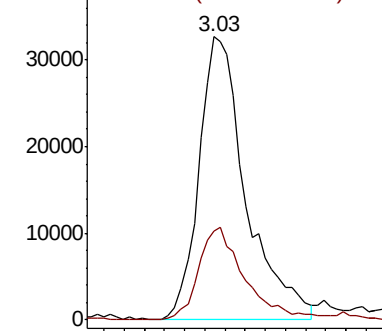
85 100

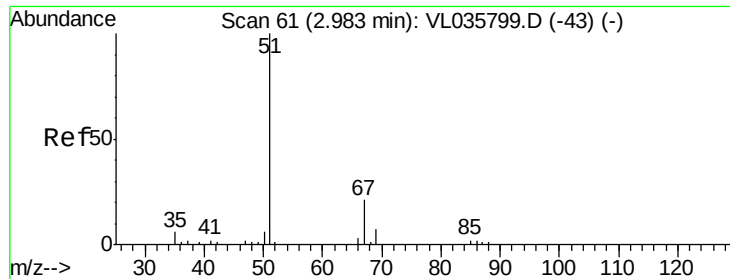
87 31.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.321 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL035903.D

Acq: 11 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2DUP

Tot Ion: 51 Resp: 43795

Ion Ratio Lower Upper

51 100

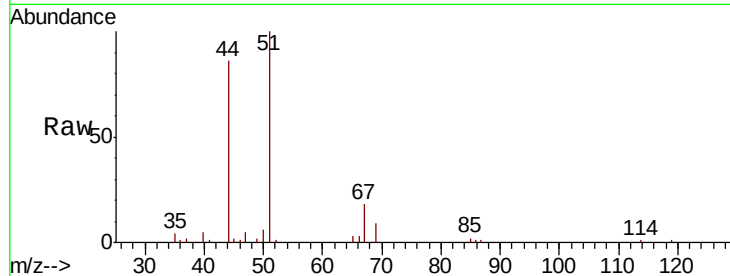
67 18.2 17.0 25.4

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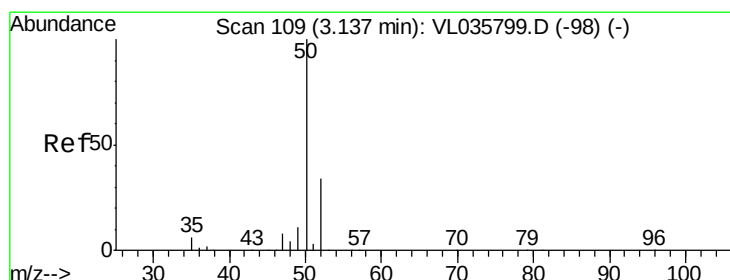
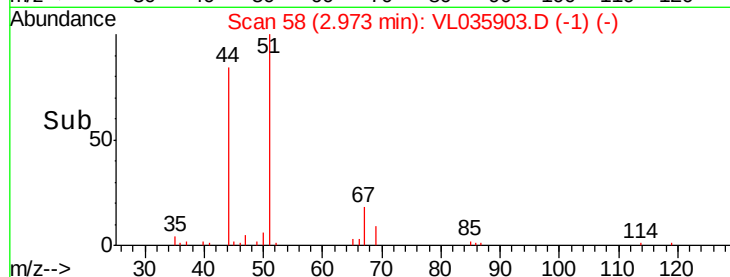
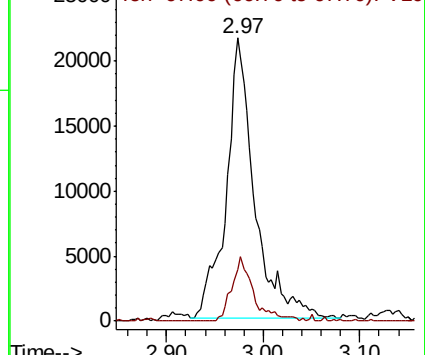
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.461 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035903.D

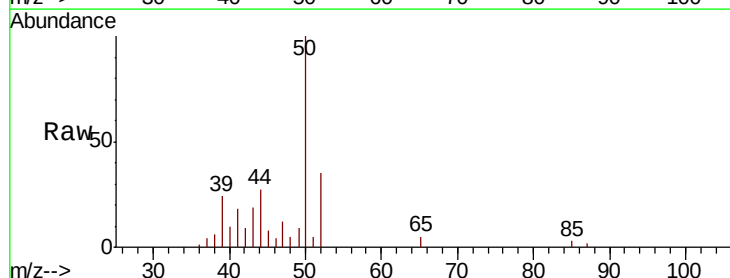
Acq: 11 Nov 2020 00:34

Tgt Ion: 50 Resp: 30528

Ion Ratio Lower Upper

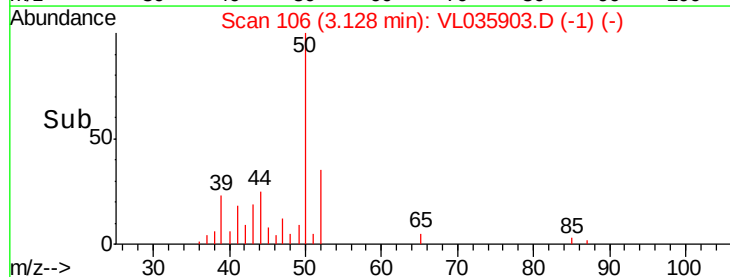
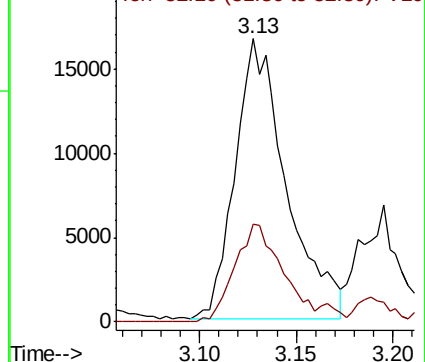
50 100

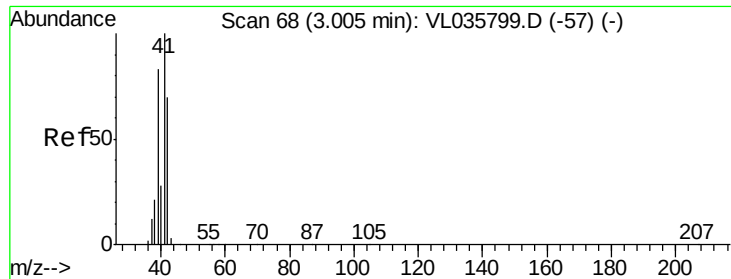
52 34.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 14.639 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035903.D

Acq: 11 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2DUP

Tot Ion: 41 Resp: 730644

Ion Ratio Lower Upper

41 100

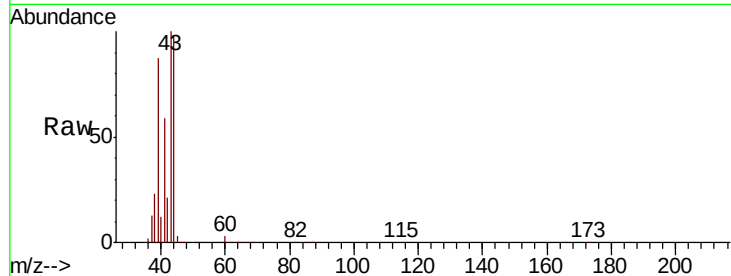
42 25.7 56.2 84.4#

Manual Integrations

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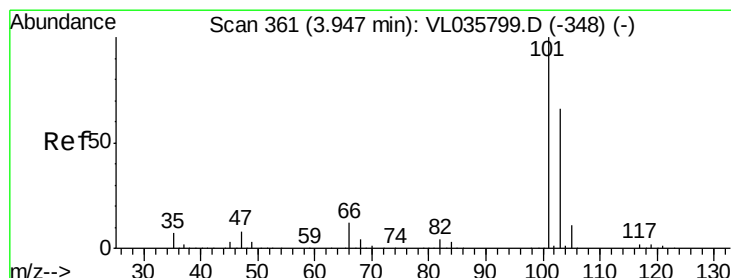
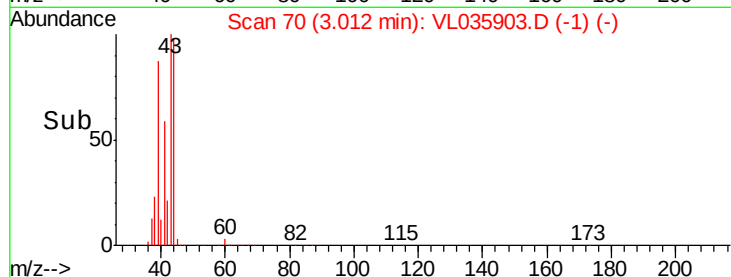
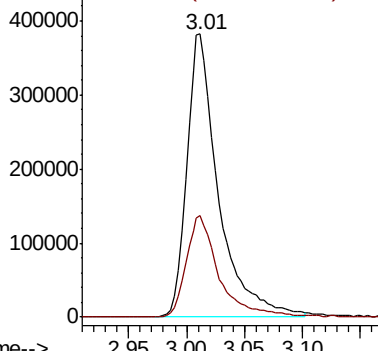
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL035903.D

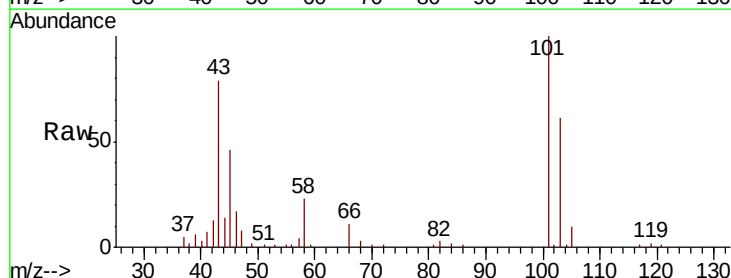
Acq: 11 Nov 2020 00:34

Tgt Ion: 101 Resp: 61566

Ion Ratio Lower Upper

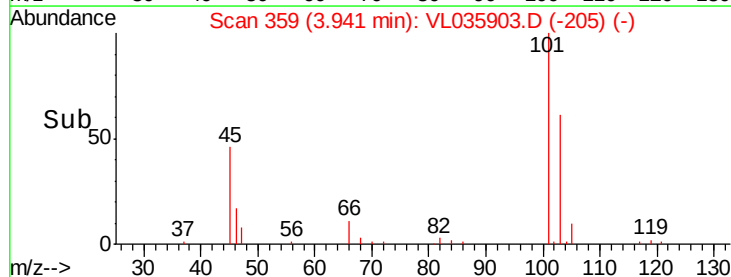
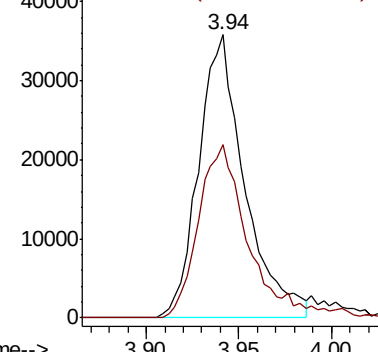
101 100

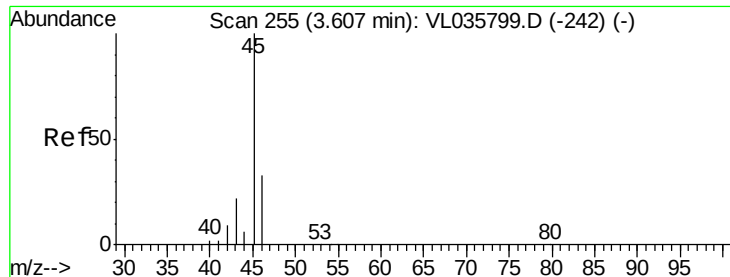
103 61.4 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





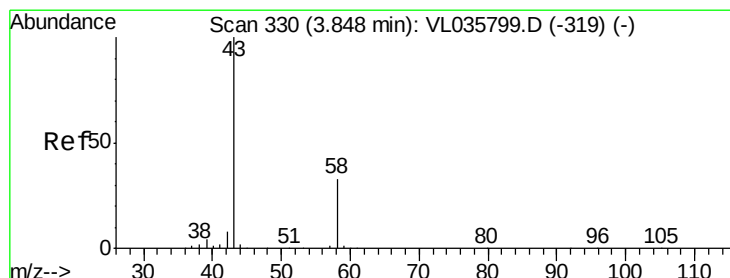
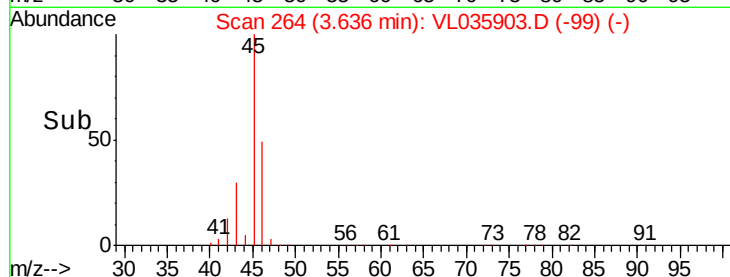
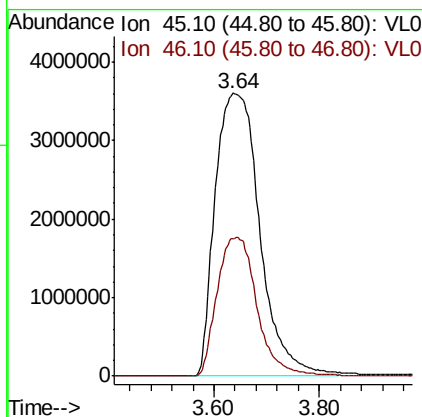
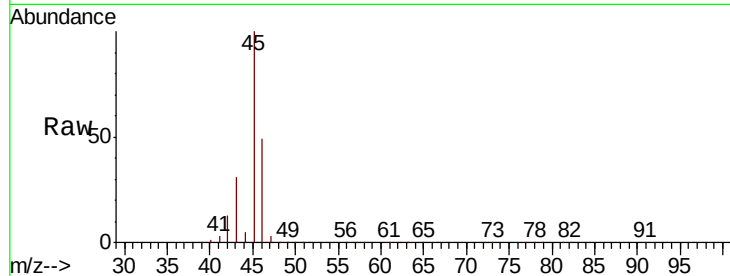
#13
Ethanol
Concen: 1951.585 ppbv
RT: 3.64 min Scan# 264
Delta R.T. 0.03 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tot Ion: 45 Resp: 21131453
Ion Ratio Lower Upper
45 100
46 44.1 16.1 64.5

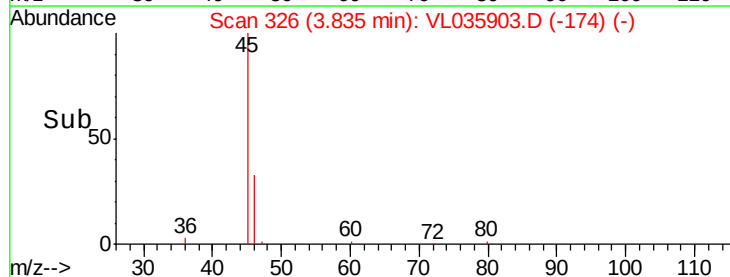
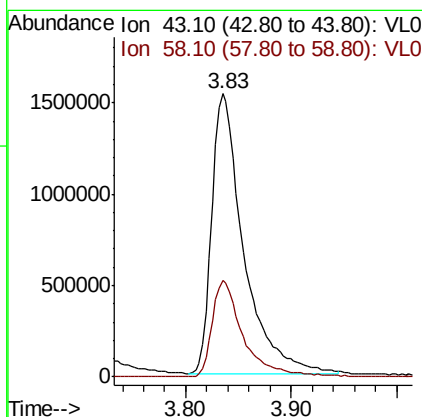
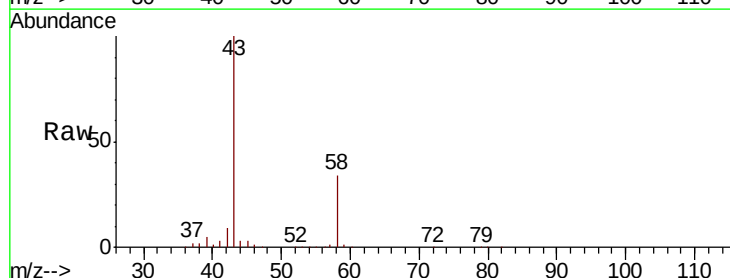
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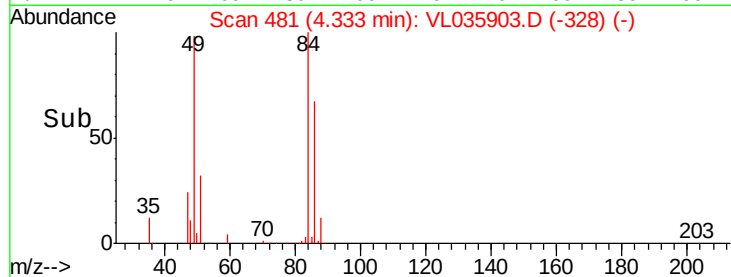
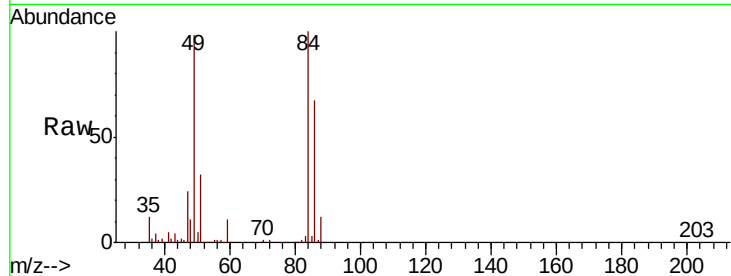
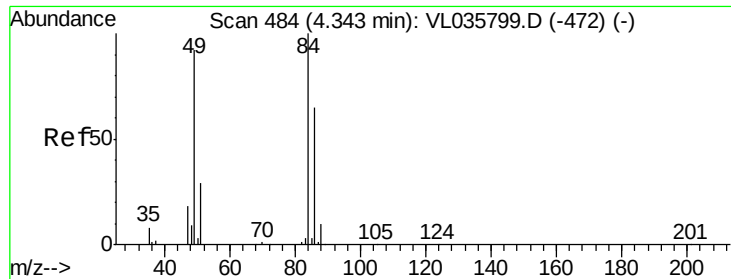
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#15
Acetone
Concen: 26.460 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion: 43 Resp: 3221147
Ion Ratio Lower Upper
43 100
58 34.3 27.5 41.3





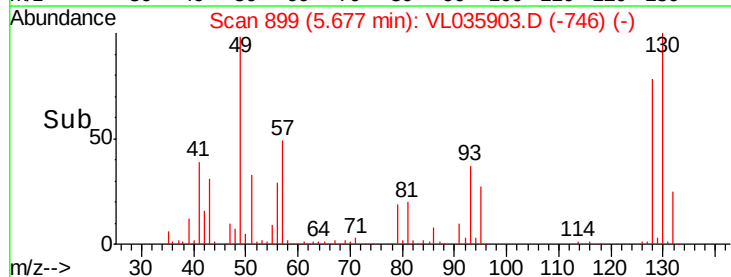
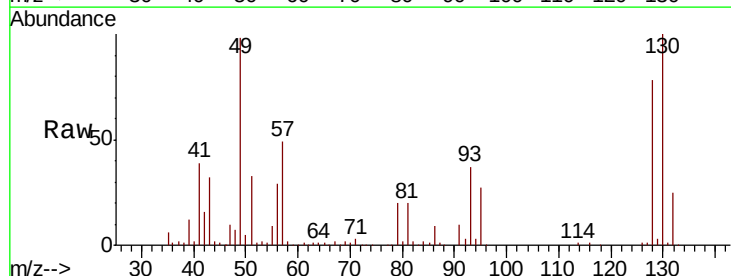
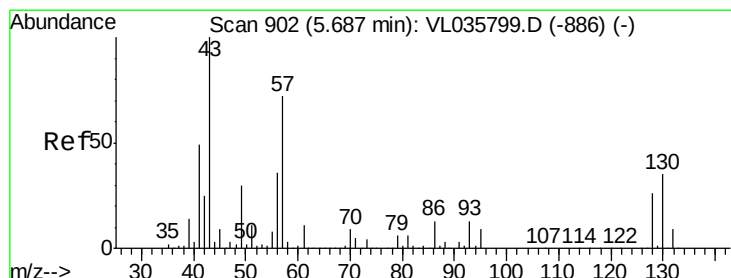
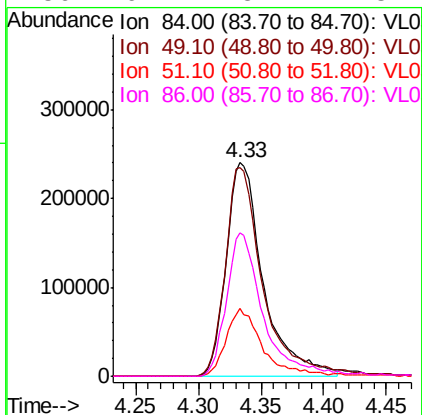
#20
Methylene Chloride
Concen: 5.779 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tot Ion	84	Resp	495232
Ion Ratio	Lower	Upper	
84	100		
49	97.7	73.8	110.8
51	31.6	23.0	34.4
86	67.2	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

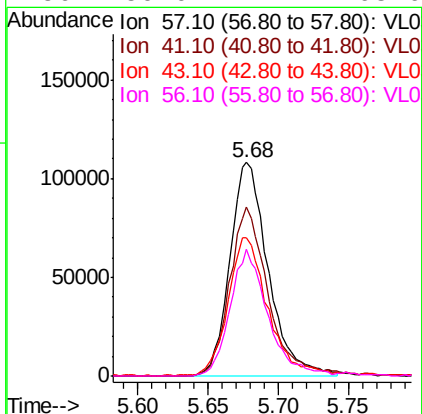
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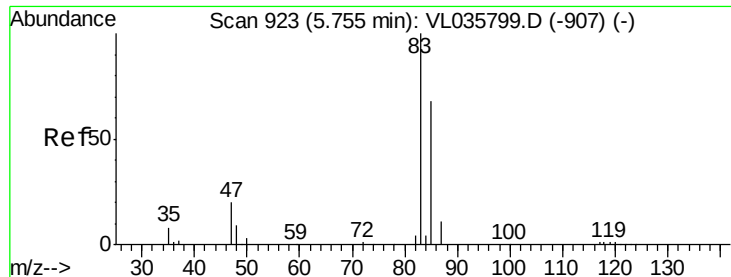
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#26
Hexane
Concen: 1.556 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion	57	Resp	205755
Ion Ratio	Lower	Upper	
57	100		
41	81.2	58.9	88.3
43	68.4	150.2	225.2
56	59.0	42.4	63.6





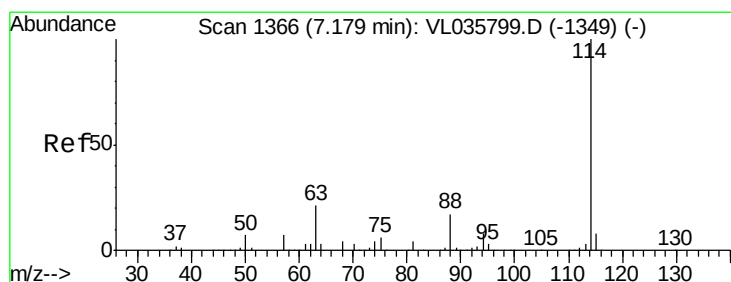
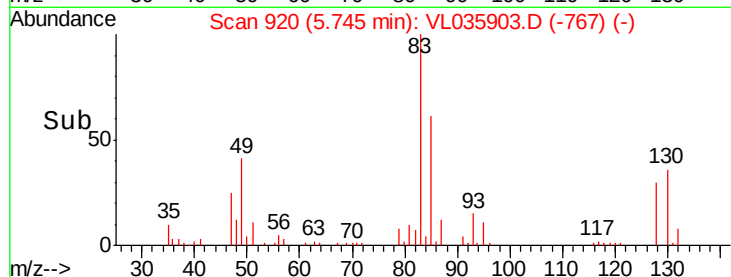
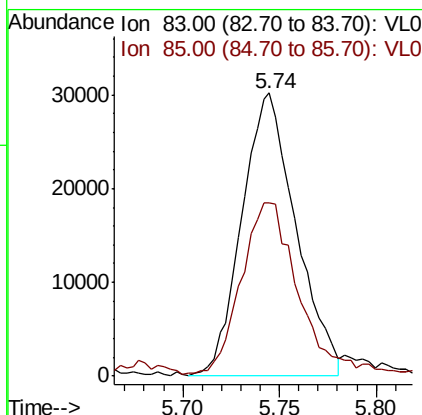
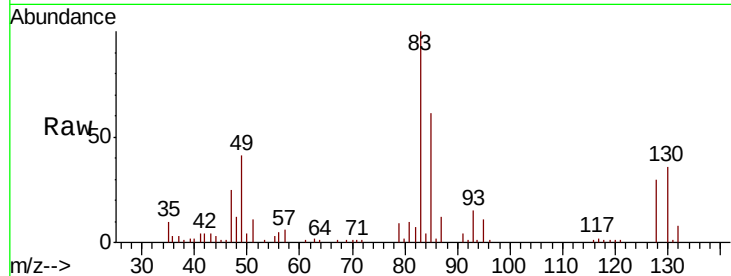
#29
Chloroform
Concen: 0.226 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tot Ion	83	Resp	58831
Ion Ratio	100	Lower	Upper
85	60.2	54.6	81.8

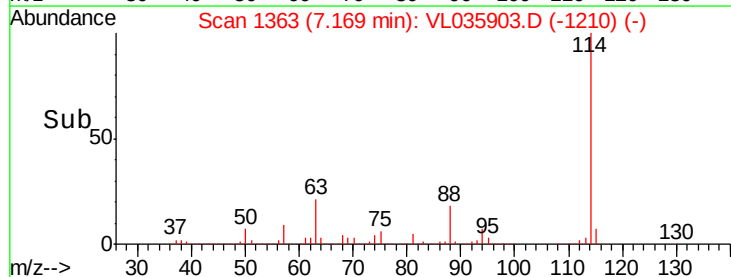
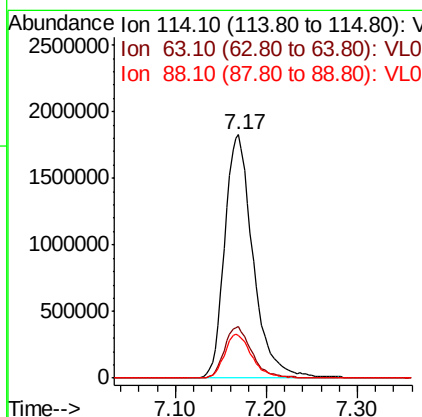
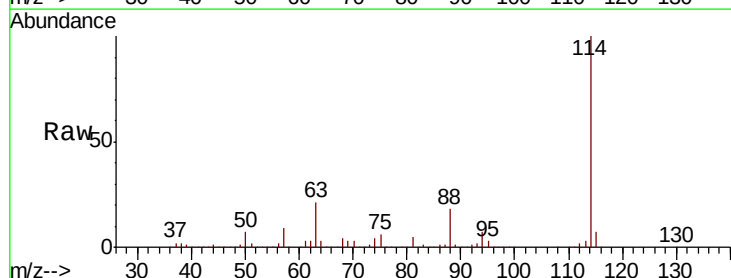
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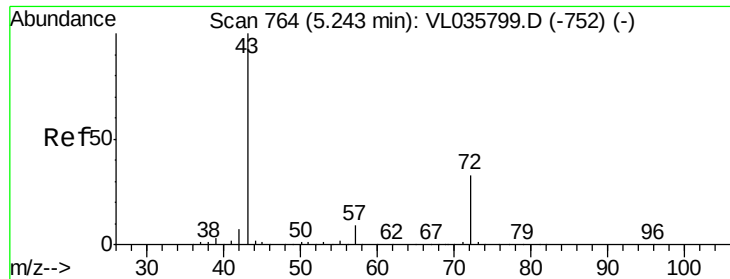
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion	114	Resp	3956417
Ion Ratio	100	Lower	Upper
63	20.7	16.1	24.1
88	17.5	13.7	20.5





#34

2-Butanone

Concen: 0.247 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL035903.D

Acq: 11 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2DUP

Tot Ion: 43 Resp: 31710

Ion Ratio Lower Upper

43 100

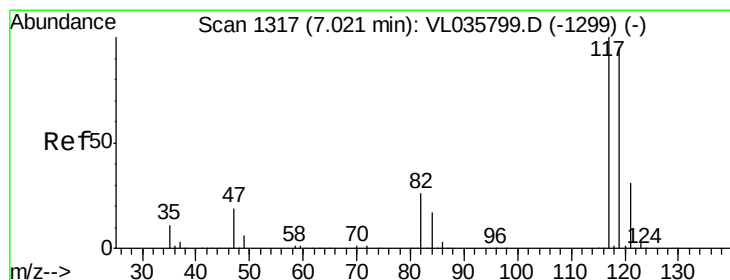
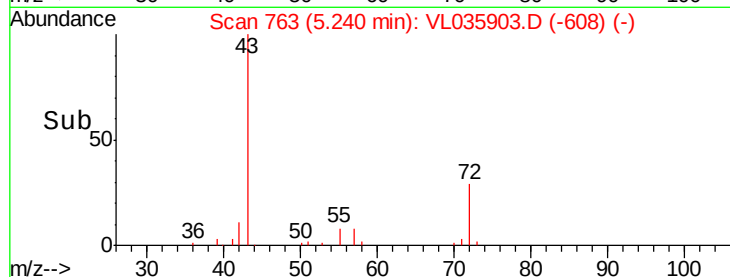
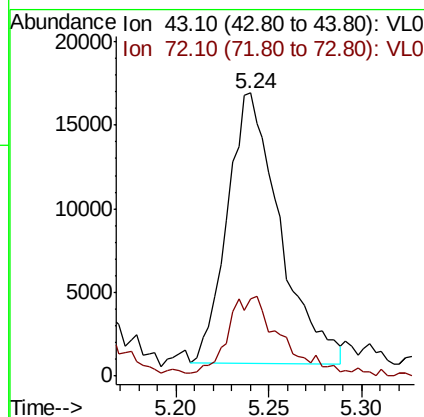
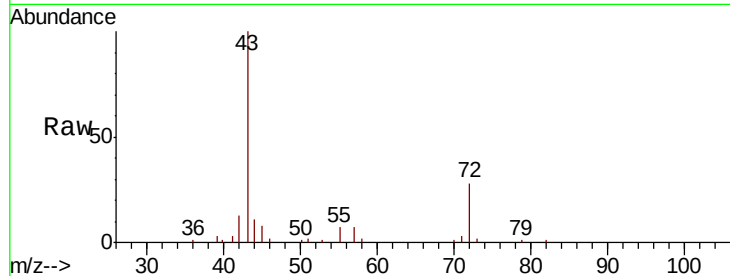
72 32.3 26.5 39.7

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.053 ppbv

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035903.D

Acq: 11 Nov 2020 00:34

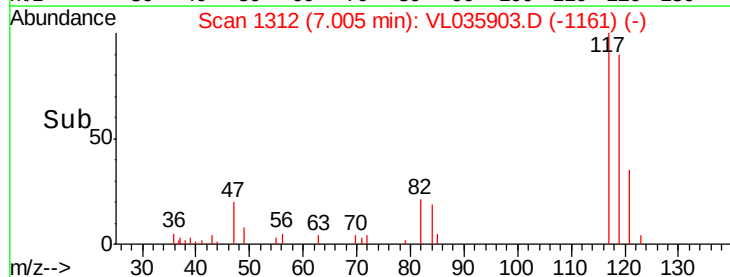
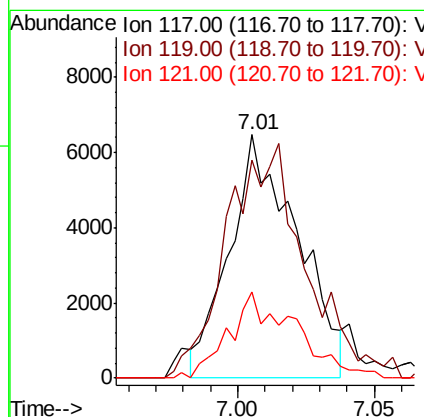
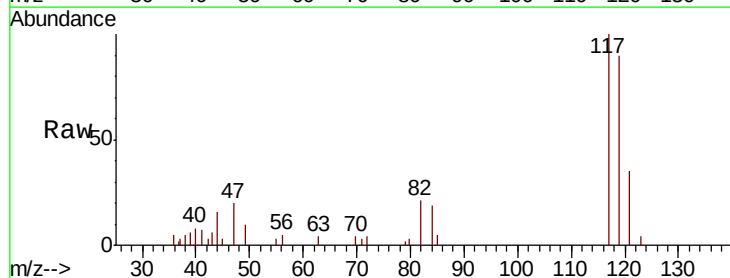
Tgt Ion: 117 Resp: 11180

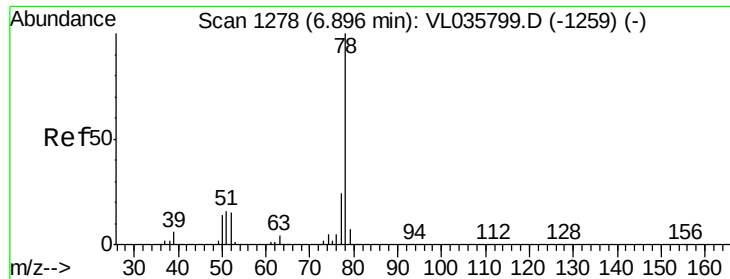
Ion Ratio Lower Upper

117 100

119 87.6 75.6 113.4

121 39.9 25.1 37.7#





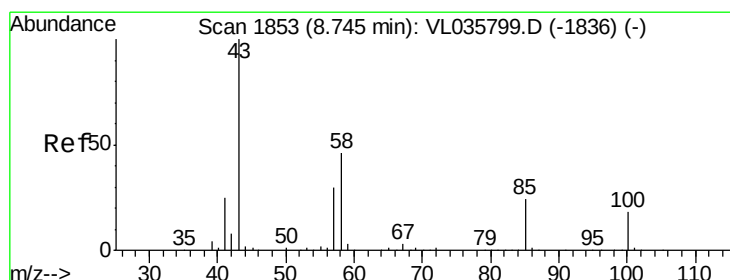
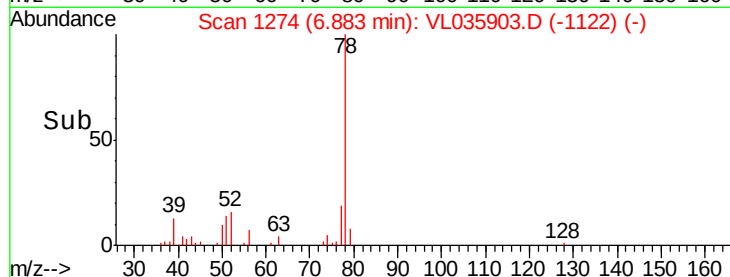
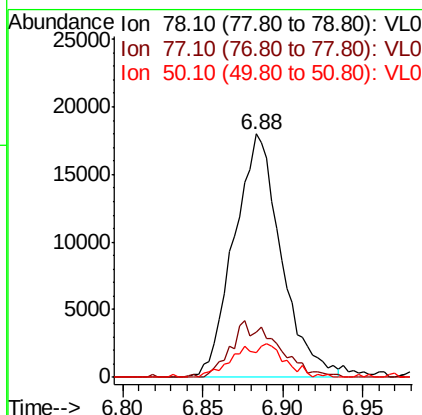
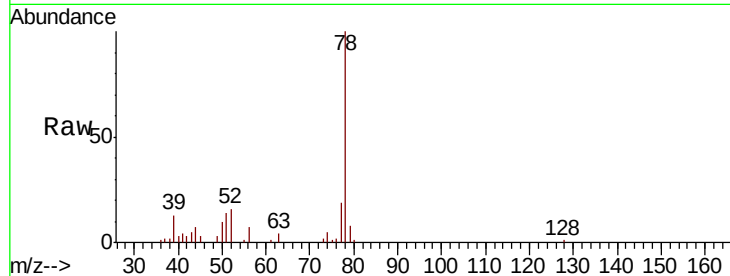
#36
Benzene
Concen: 0.123 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.7	19.3	28.9#
50	10.2	11.4	17.2#

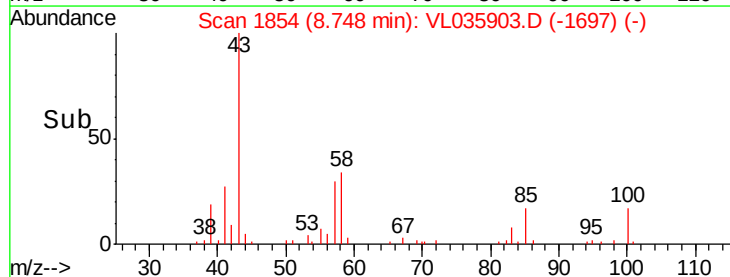
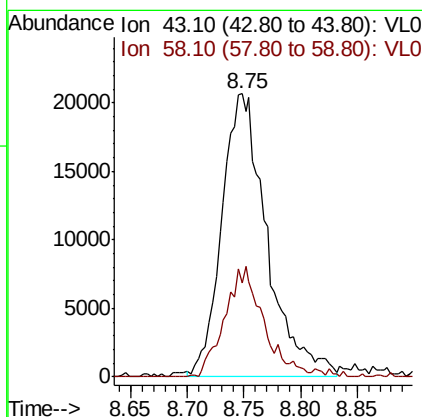
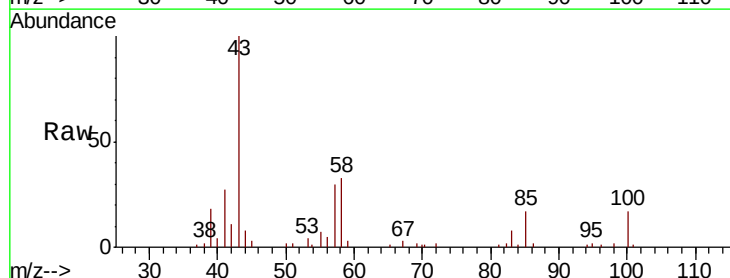
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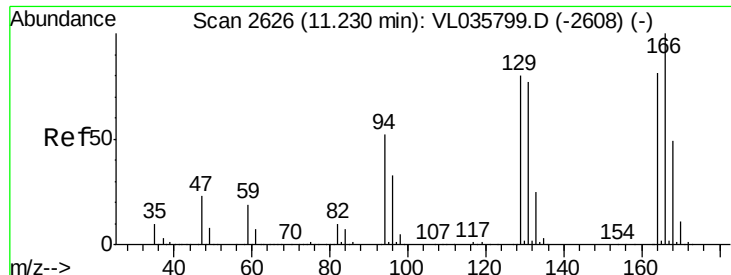
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#50
4-Methyl-2-Pentanone
Concen: 0.292 ppbv m
RT: 8.75 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	36.0	54.0#





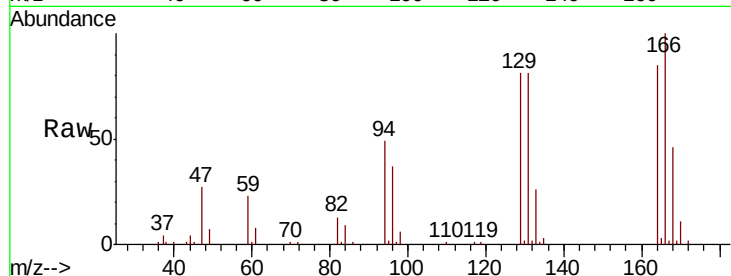
#52
Tetrachloroethene
Concen: 0.438 ppbv
RT: 11.21 min Scan# 2621
Delta R.T. -0.02 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	117.5	99.3	148.9
129	95.4	79.3	118.9
131	95.7	76.5	114.7

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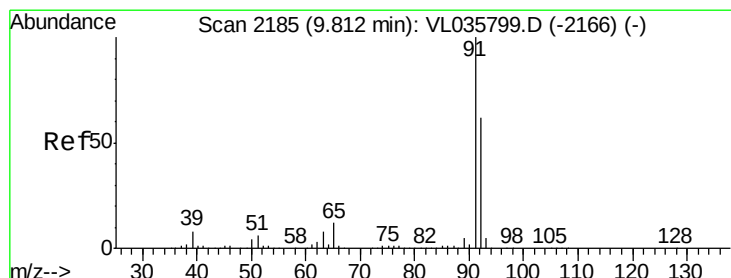
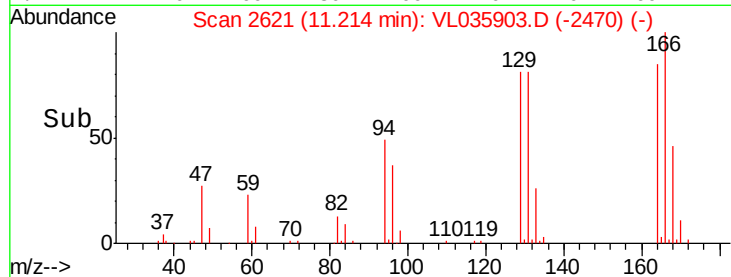
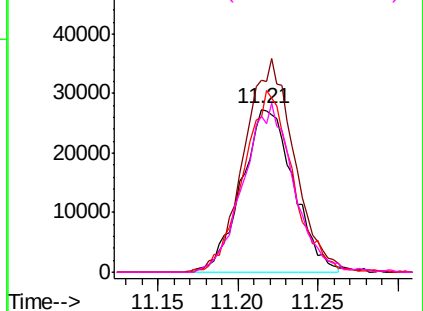
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

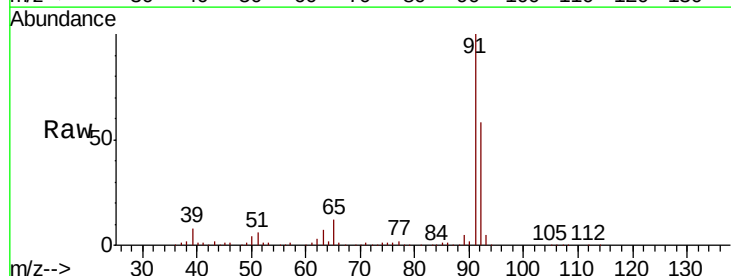
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 1.949 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

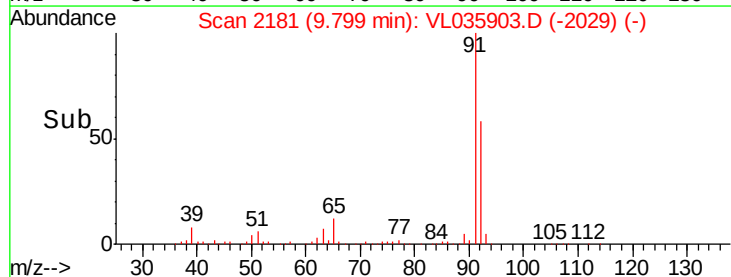
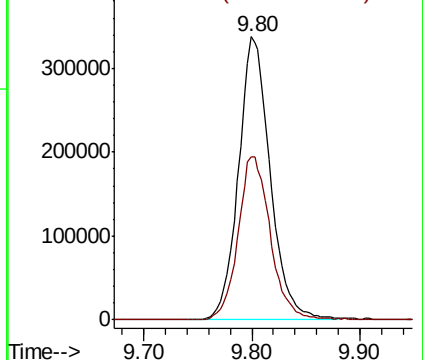
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	49.8	74.6

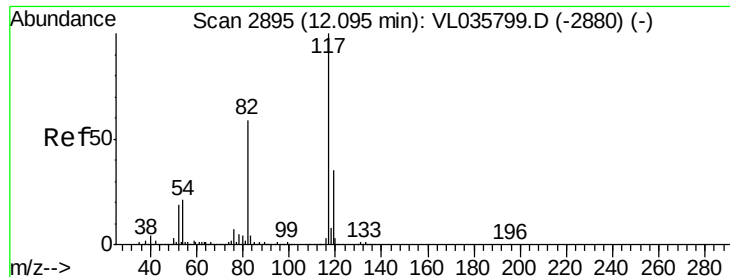


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





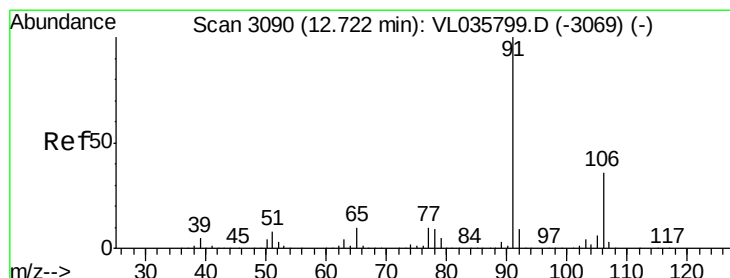
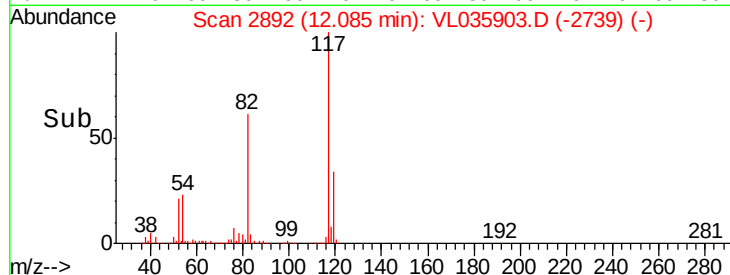
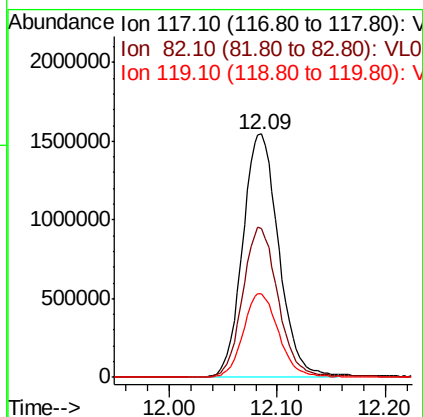
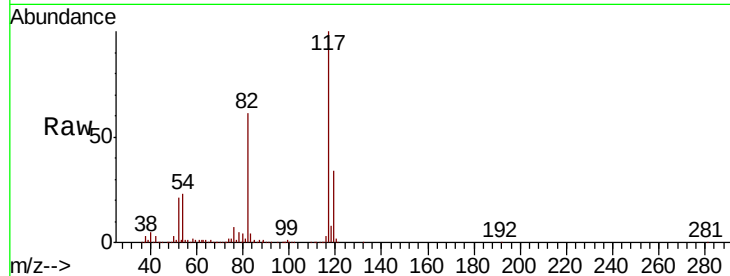
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tot Ion:117 Resp: 3589977
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 34.1 52.6 78.8#

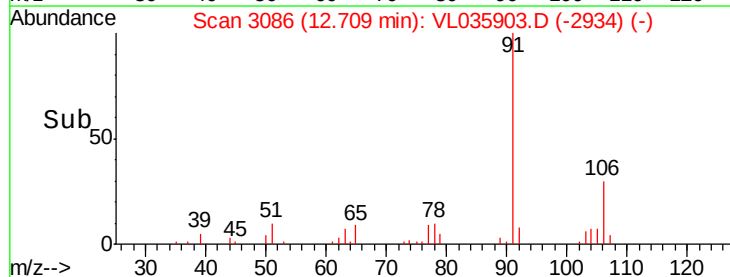
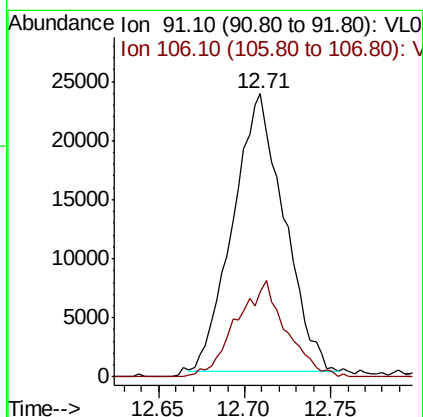
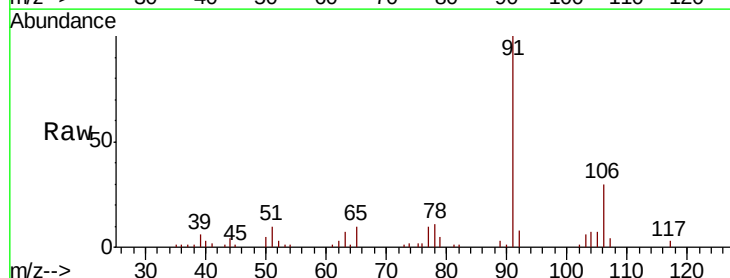
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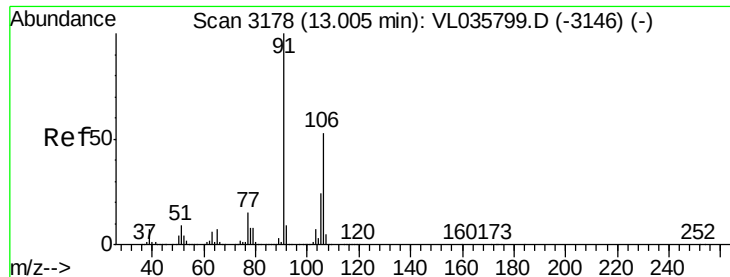
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#58
Ethyl Benzene
Concen: 0.111 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion: 91 Resp: 48381
Ion Ratio Lower Upper
91 100
106 30.5 28.6 43.0





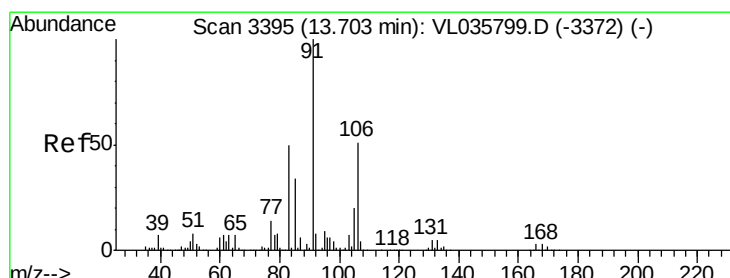
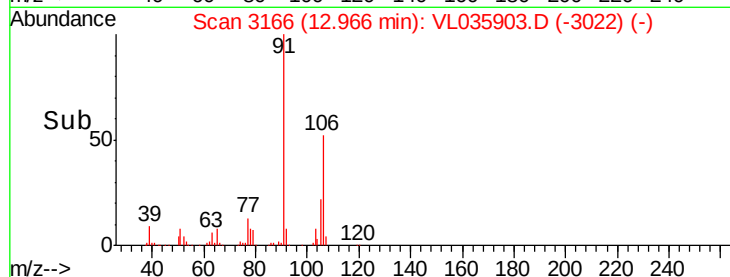
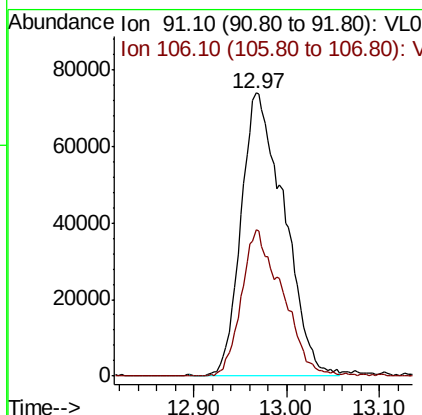
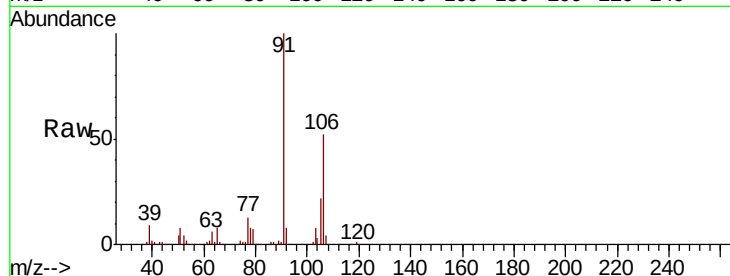
#59
m/p-Xylene
Concen: 0.643 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampled :
SSSG-2DUP

Tot Ion: 91 Resp: 237996
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

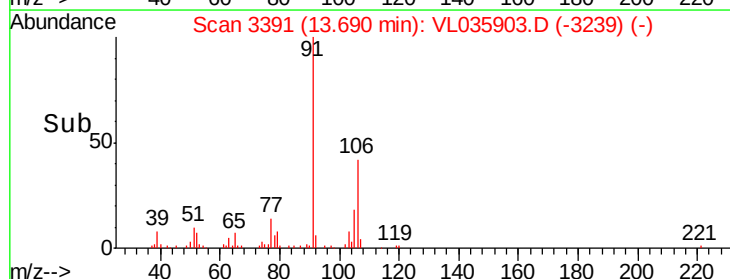
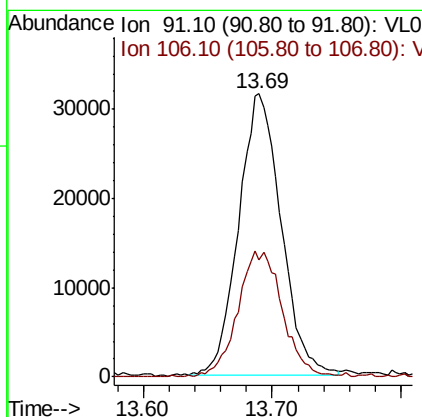
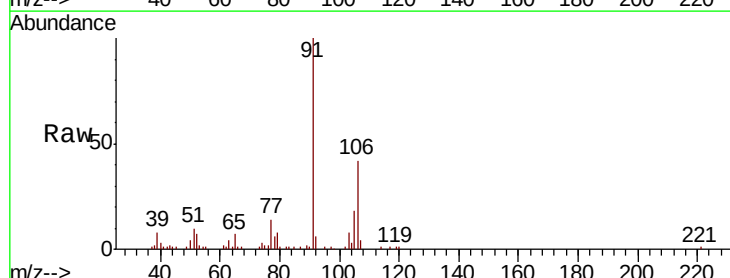
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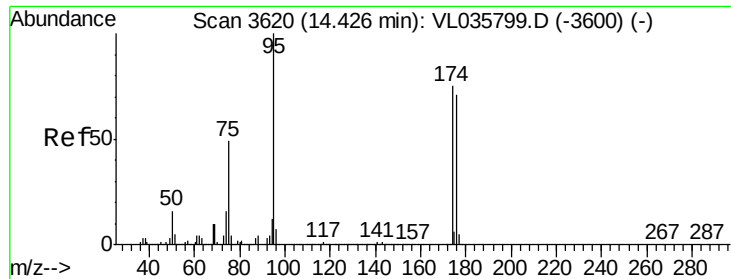
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#60
o-Xylene
Concen: 0.201 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL035903.D
Acq: 11 Nov 2020 00:34

Tgt Ion: 91 Resp: 72326
Ion Ratio Lower Upper
91 100
106 47.1 24.8 74.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.585 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL035903.D
 Acq: 11 Nov 2020 00:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	72.1	59.8	89.6
175	5.1	4.3	6.5

Manual Integrations
 APPROVED

MMDadoda
 11/12/2020 9:03:20 AM

