

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111020\
 Data File : VL035902.D
 Acq On : 10 Nov 2020 23:53
 Operator : SY/AP
 Sample : L4618-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2

Manual Integrations
 APPROVED

MMDadoda
 11/12/2020 9:03:16 AM

Quant Time: Nov 11 16:46:42 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	5.66	49	1130807	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3921966	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3636586	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2711483	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	54610	0.257	ppbv	98
3) Chlorodifluoromethane	2.98	51	43675	0.323	ppbv #	91
4) Chloromethane	3.13	50	29544	0.449	ppbv	96
9) Propene	3.01	41	707896m	14.282	ppbv	
11) Trichlorofluoromethane	3.94	101	58871	0.220	ppbv	93
13) Ethanol	3.64	45	20518438	1908.205	ppbv	94
15) Acetone	3.83	43	3045184	25.189	ppbv	99
20) Methylene Chloride	4.33	84	475959	5.593	ppbv	99
26) Hexane	5.67	57	186694	1.421	ppbv #	48
29) Chloroform	5.74	83	56808	0.220	ppbv	94
34) 2-Butanone	5.24	43	27332	0.215	ppbv	97
35) Carbon Tetrachloride	7.01	117	12262m	0.059	ppbv	
36) Benzene	6.88	78	30552	0.105	ppbv	93
50) 4-Methyl-2-Pentanone	8.75	43	51494m	0.265	ppbv	
52) Tetrachloroethene	11.22	164	58471	0.423	ppbv	96
53) Toluene	9.80	91	649795	1.847	ppbv	97
58) Ethyl Benzene	12.71	91	48872	0.110	ppbv	92
59) m/p-Xylene	12.97	91	222666	0.594	ppbv	98
60) o-Xylene	13.69	91	69713m	0.191	ppbv	

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

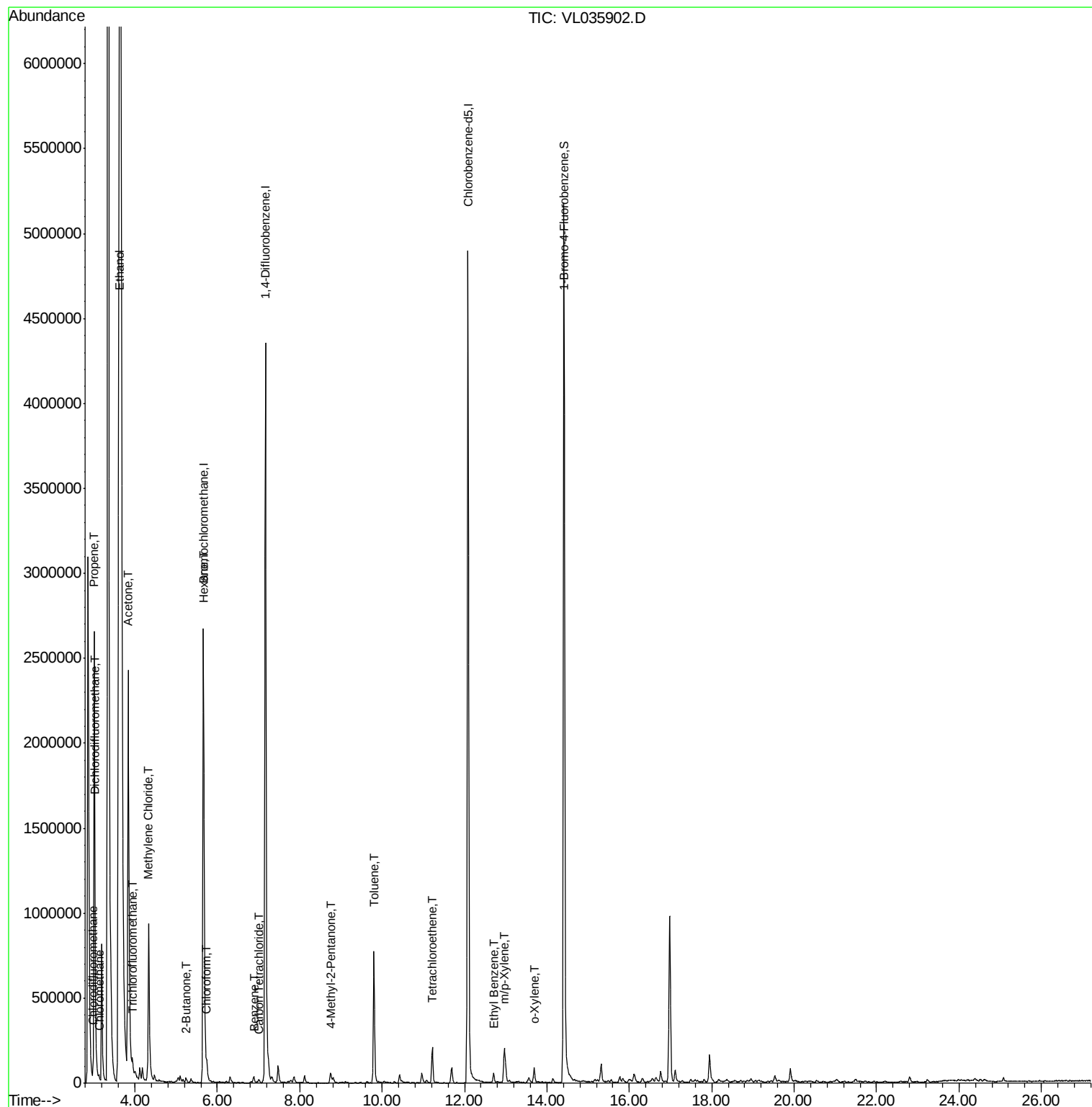
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111020\
Data File : VL035902.D
Acq On : 10 Nov 2020 23:53
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Quant Time: Nov 11 16:46:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: 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: VL035902.D

Acq: 10 Nov 2020 23:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

Tot Ion: 49 Resp: 1130807

Ion Ratio Lower Upper

49 100

128 77.0 41.5 124.6

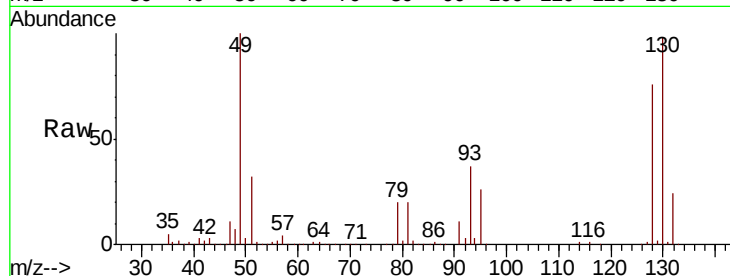
130 98.0 53.7 161.1

Manual Integrations

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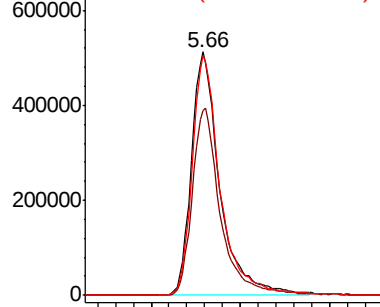
11/12/2020 9:03:16 AM



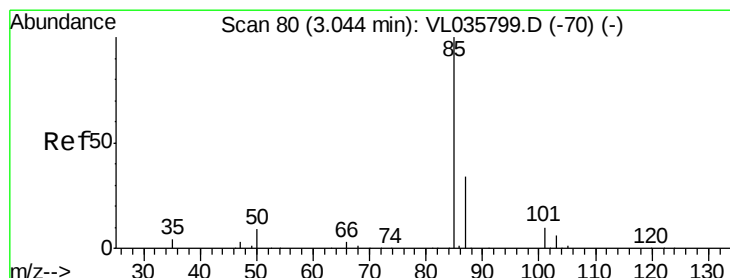
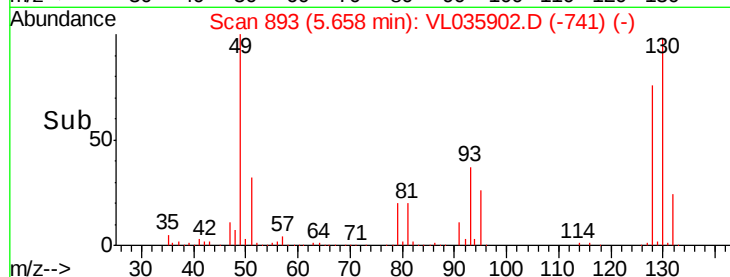
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.257 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL035902.D

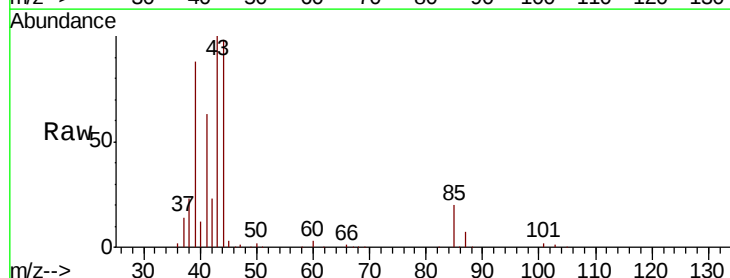
Acq: 10 Nov 2020 23:53

Tgt Ion: 85 Resp: 54610

Ion Ratio Lower Upper

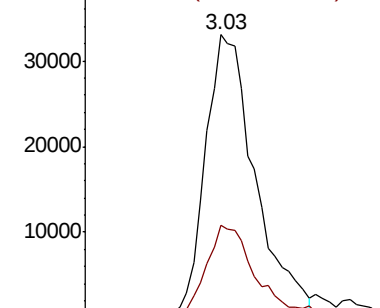
85 100

87 32.8 27.1 40.7

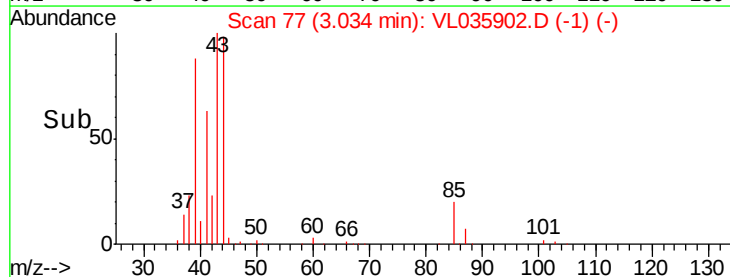


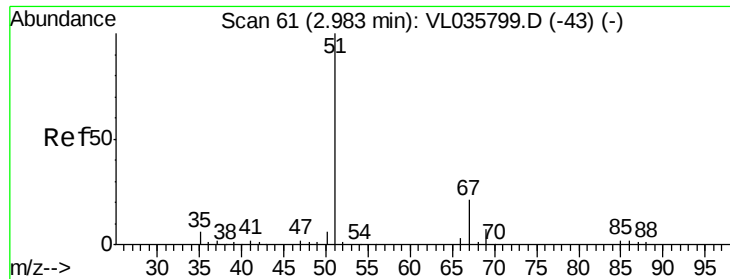
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 0.323 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

Tot Ion: 51 Resp: 43675

Ion Ratio Lower Upper

51 100

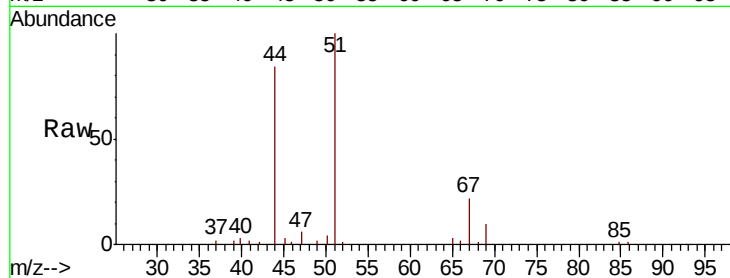
67 16.8 17.0 25.4#

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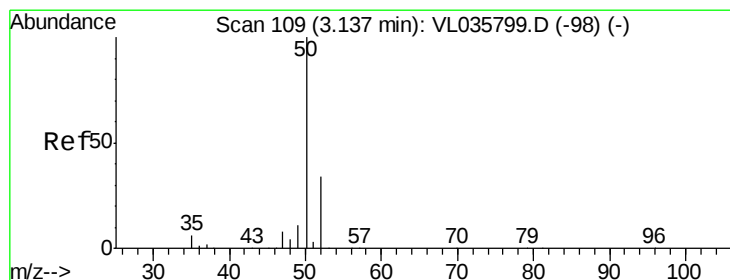
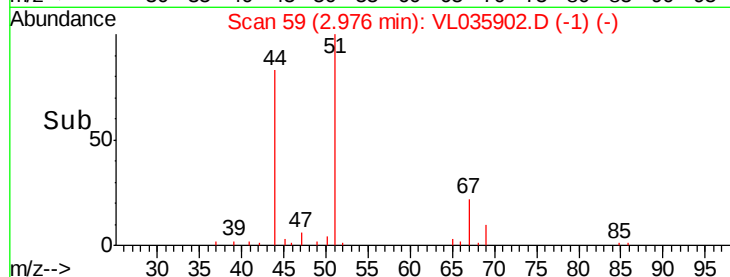
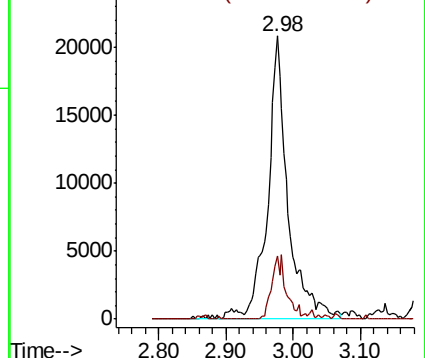
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035902.D

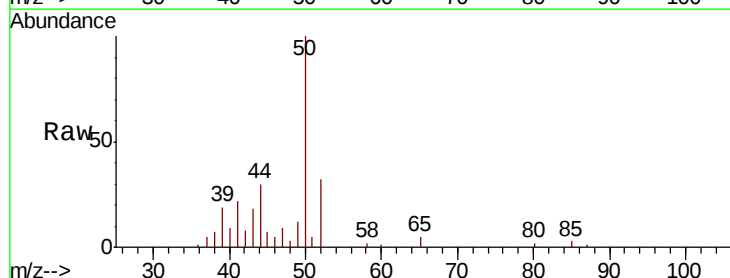
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Tgt Ion: 50 Resp: 29544

Ion Ratio Lower Upper

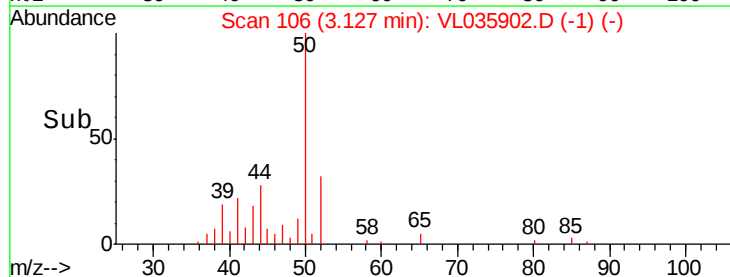
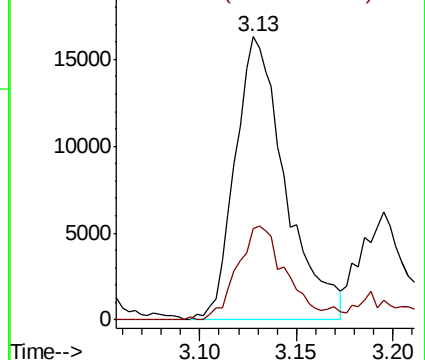
50 100

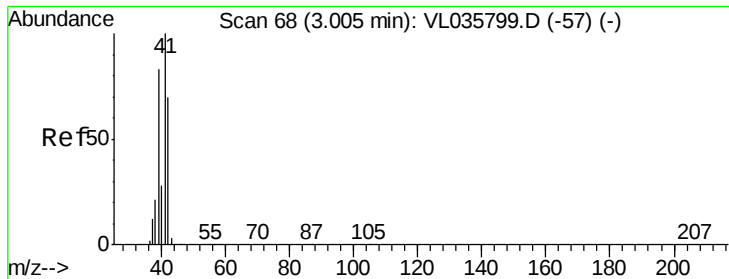
52 31.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 14.282 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

Tot Ion: 41 Resp: 707896

Ion Ratio Lower Upper

41 100

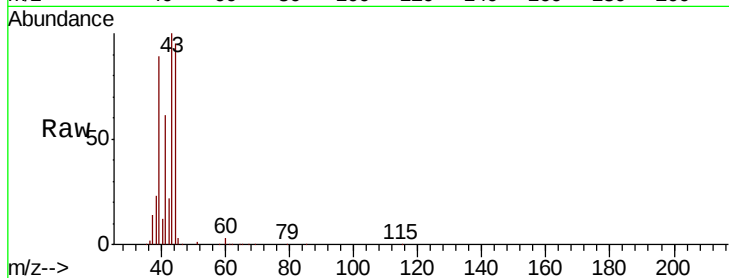
42 26.0 56.2 84.4#

Manual Integrations

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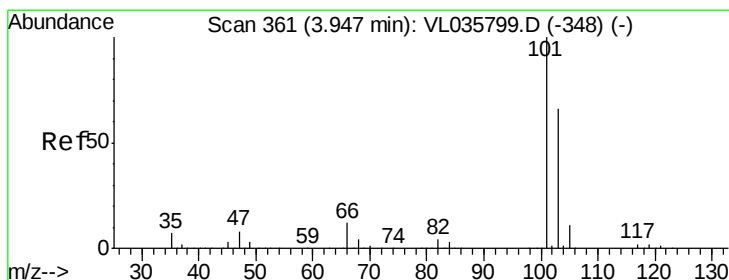
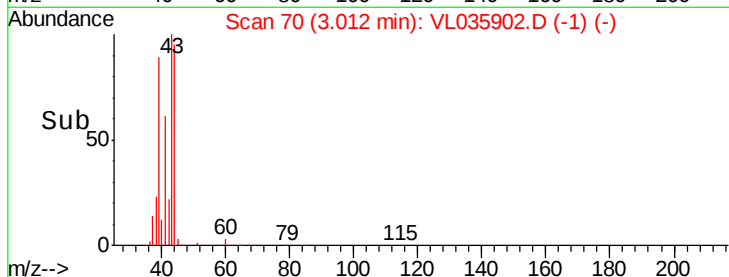
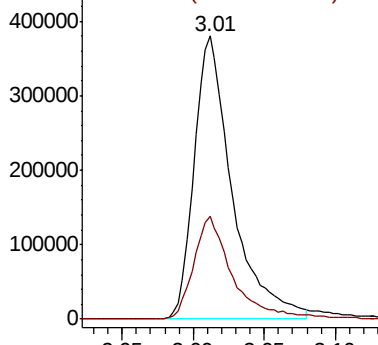
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.220 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL035902.D

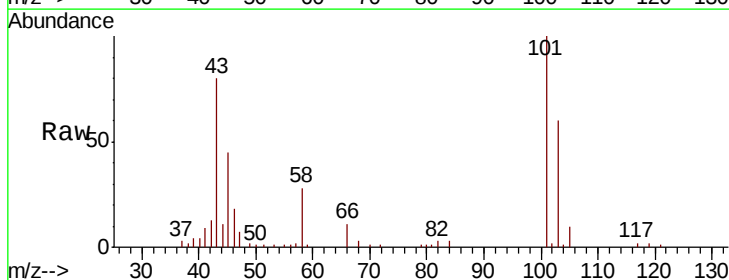
Acq: 10 Nov 2020 23:53

Tgt Ion: 101 Resp: 58871

Ion Ratio Lower Upper

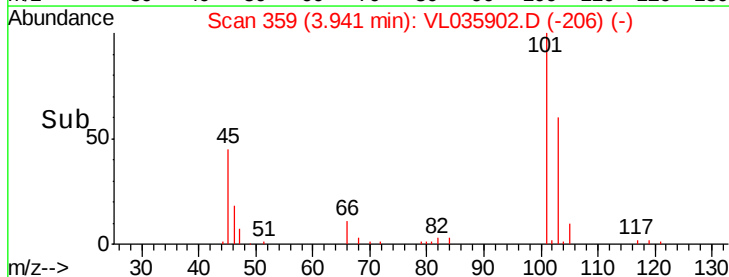
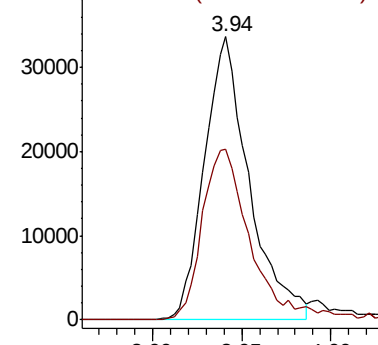
101 100

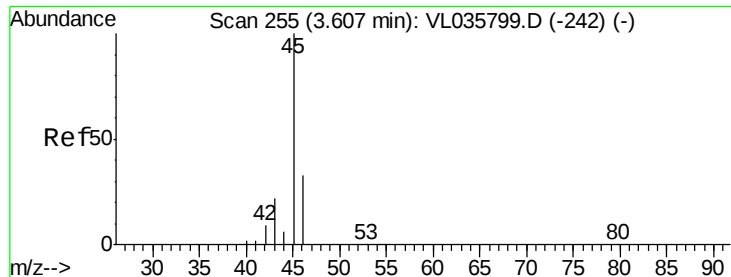
103 60.5 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





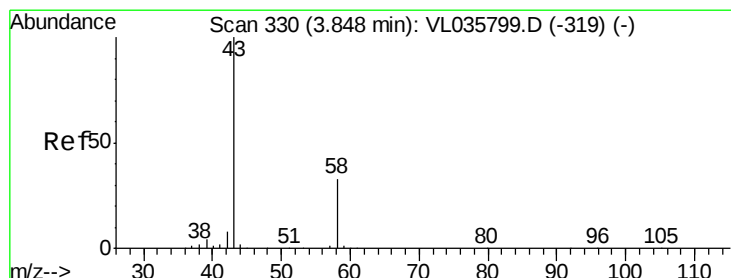
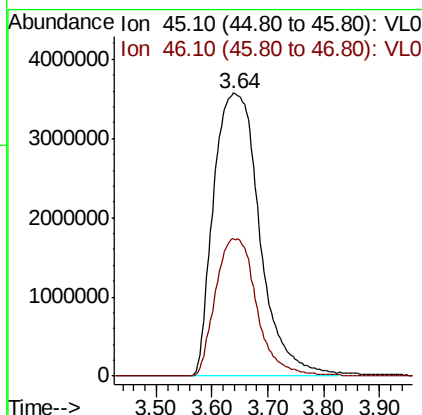
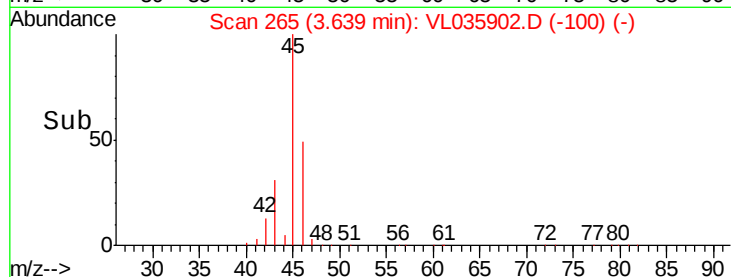
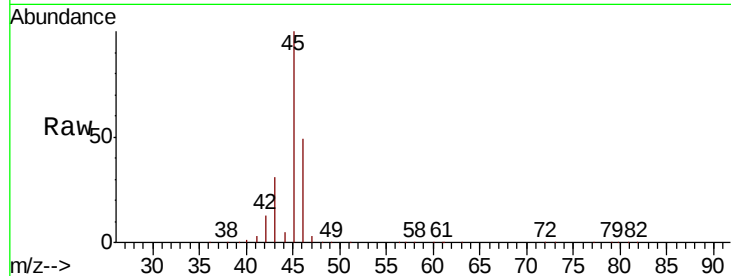
#13
Ethanol
Concen: 1908.205 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.03 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2

Tot Ion: 45 Resp: 20518438
Ion Ratio Lower Upper
45 100
46 43.9 16.1 64.5

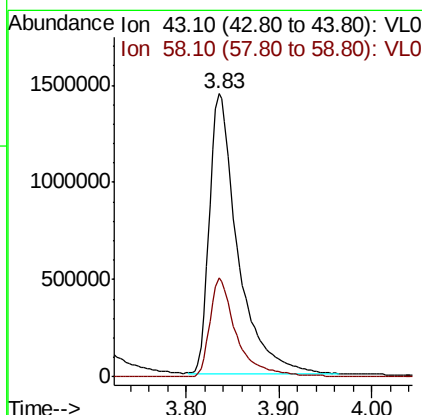
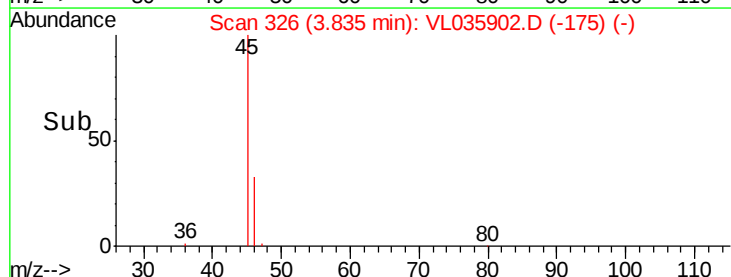
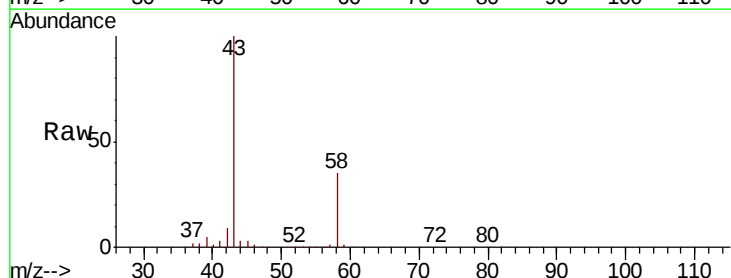
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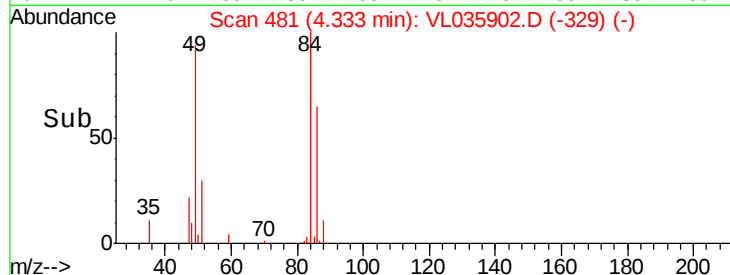
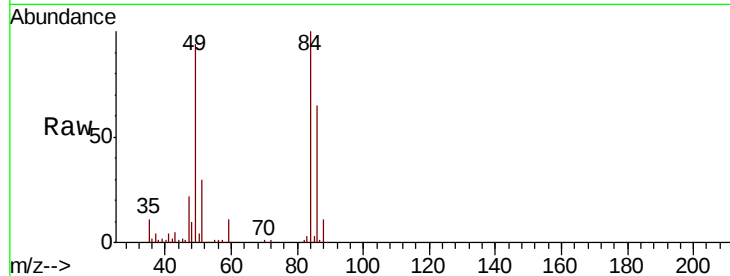
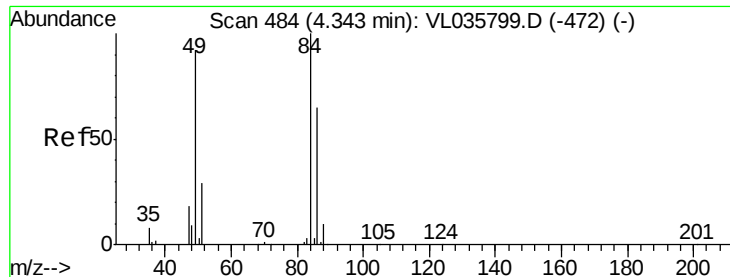
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#15
Acetone
Concen: 25.189 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tgt Ion: 43 Resp: 3045184
Ion Ratio Lower Upper
43 100
58 33.9 27.5 41.3





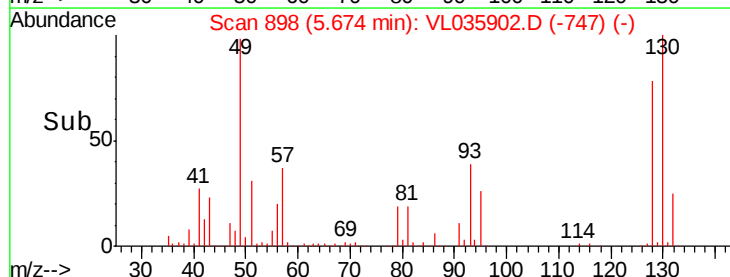
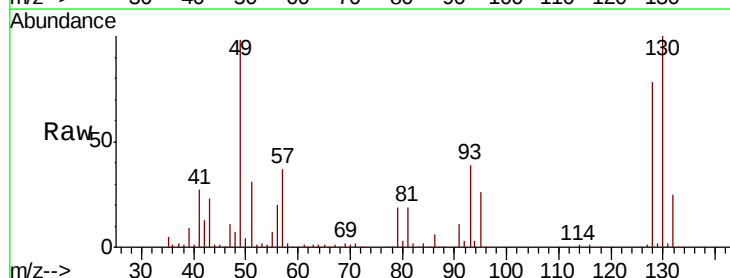
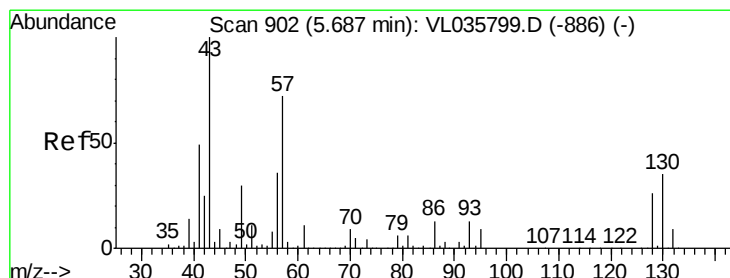
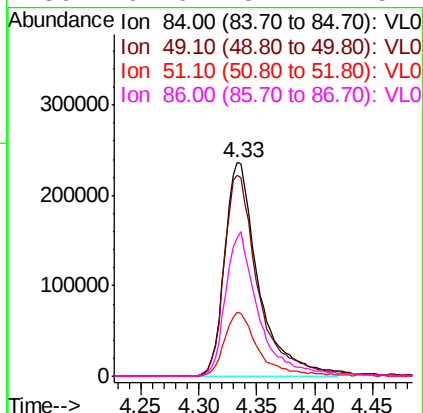
#20
Methylene Chloride
Concen: 5.593 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tot Ion	84	Resp	475959
Ion Ratio	100	Lower	Upper
84	100		
49	93.8	73.8	110.8
51	30.2	23.0	34.4
86	64.6	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2

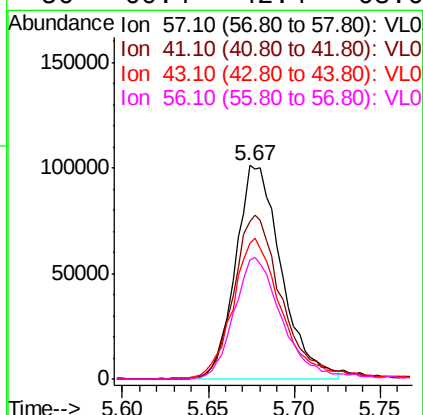
Manual Integrations
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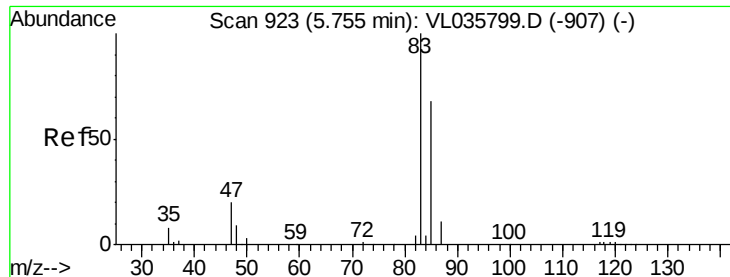
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#26
Hexane
Concen: 1.421 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tgt Ion	57	Resp	186694
Ion Ratio	100	Lower	Upper
57	100		
41	82.5	58.9	88.3
43	70.6	150.2	225.2
56	60.4	42.4	63.6





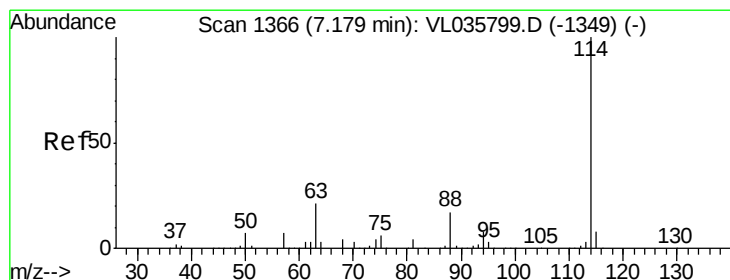
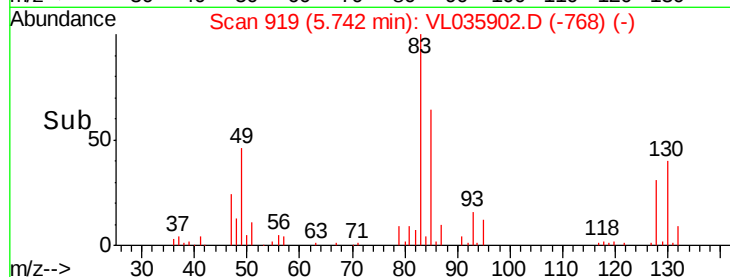
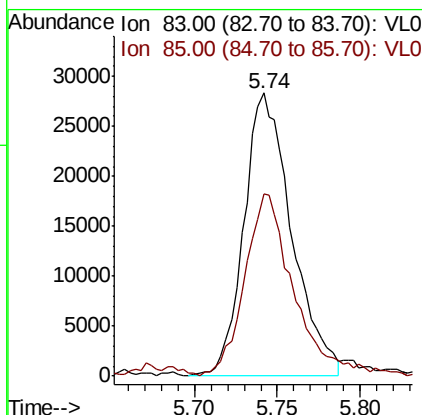
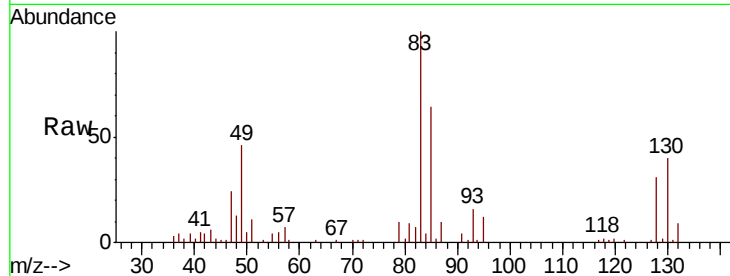
#29
Chloroform
Concen: 0.220 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Instrument :
MSVOA_L
ClientSampled :
SSSG-2

Tot Ion: 83 Resp: 56808
Ion Ratio Lower Upper
83 100
85 63.1 54.6 81.8

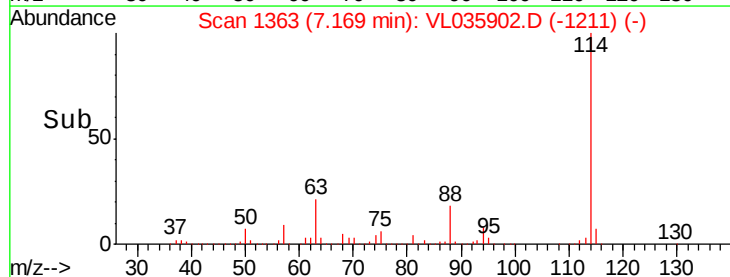
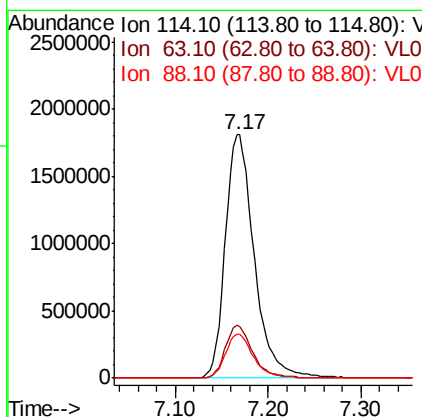
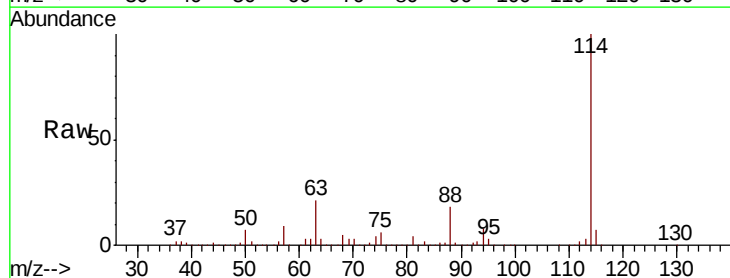
Manual Integrations
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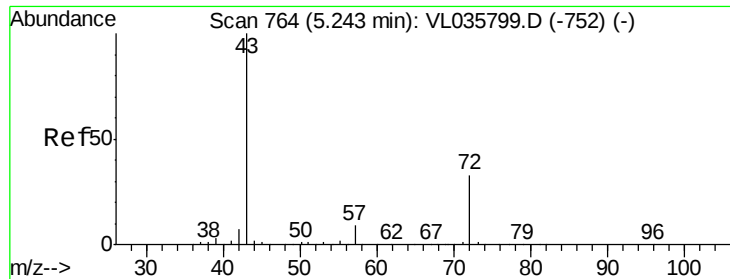
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tgt Ion: 114 Resp: 3921966
Ion Ratio Lower Upper
114 100
63 20.7 16.1 24.1
88 17.4 13.7 20.5





#34

2-Butanone

Concen: 0.215 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2

Tot Ion: 43 Resp: 27332

Ion Ratio Lower Upper

43 100

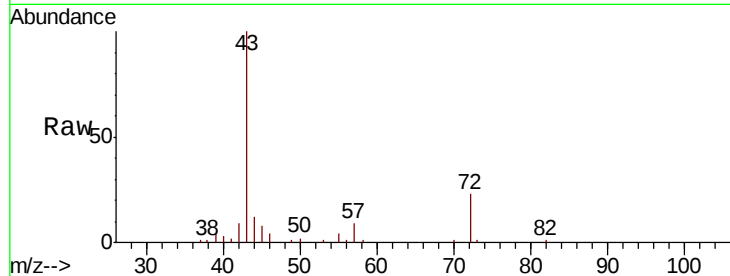
72 35.0 26.5 39.7

Manual Integrations

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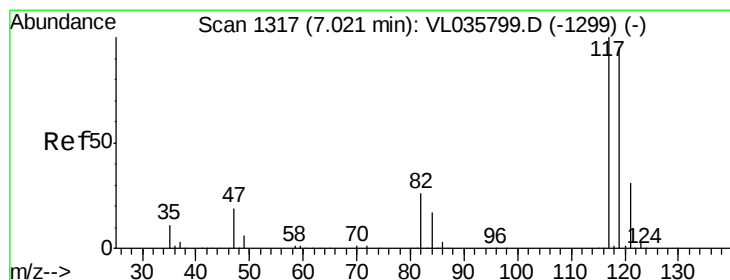
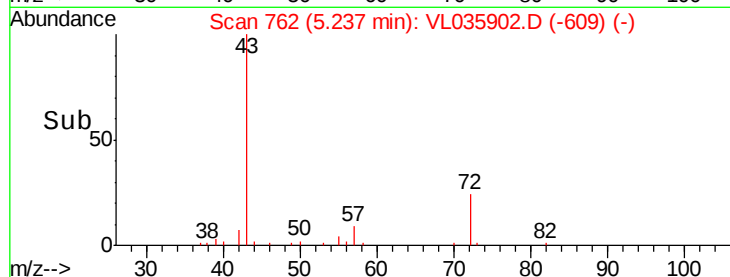
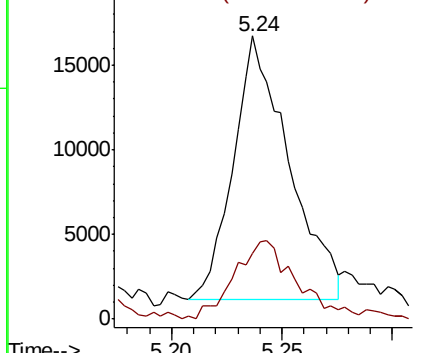
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

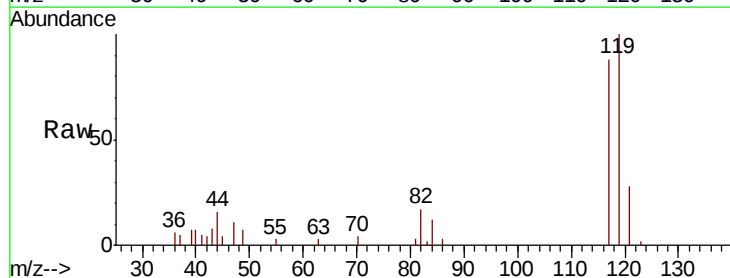
Tgt Ion: 117 Resp: 12262

Ion Ratio Lower Upper

117 100

119 113.3 75.6 113.4

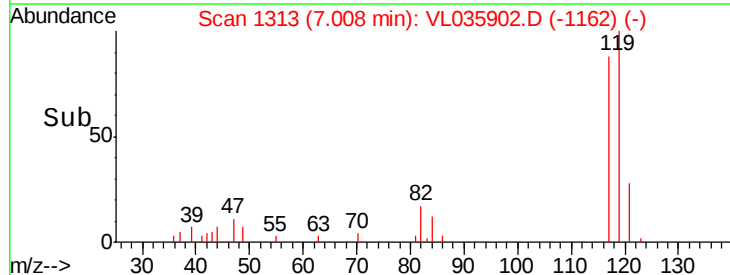
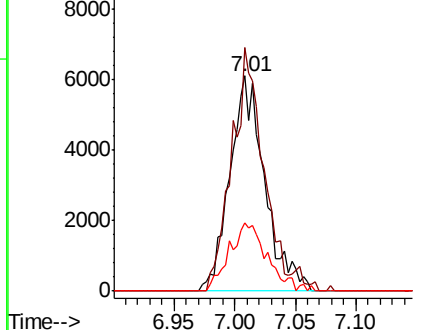
121 31.5 25.1 37.7

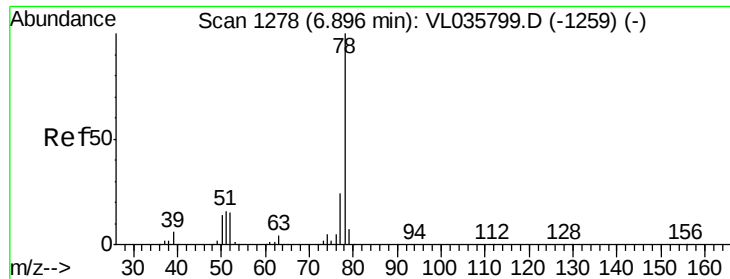


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.105 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

Instrument :

MSVOA_L

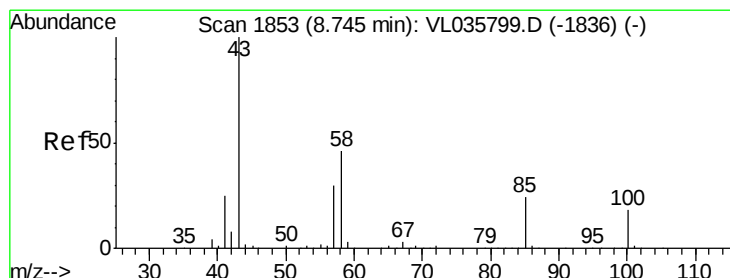
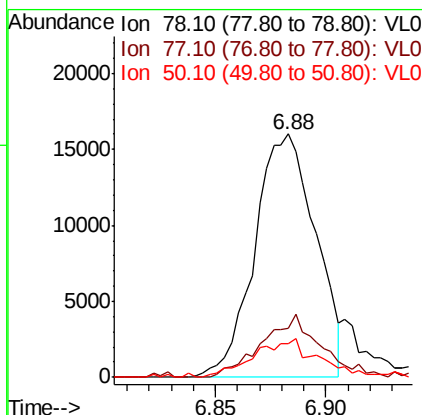
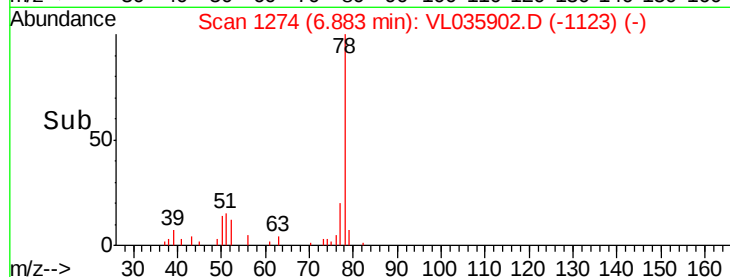
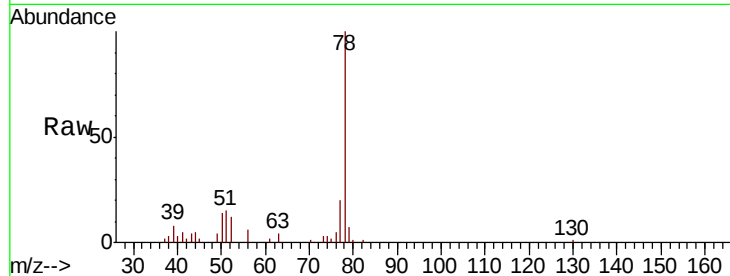
ClientSampleId :

SSSG-2

Tot Ion:	78	Resp:	30552
Ion	Ratio	Lower	Upper
78	100		
77	20.3	19.3	28.9
50	12.3	11.4	17.2

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#50

4-Methyl-2-Pentanone

Concen: 0.265 ppbv m

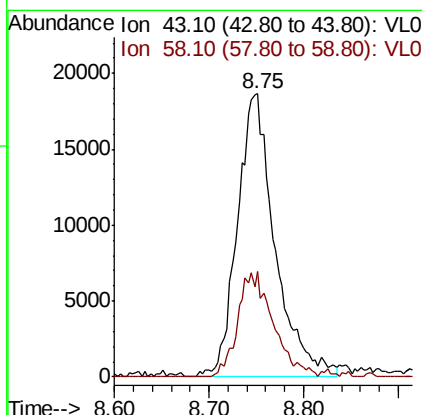
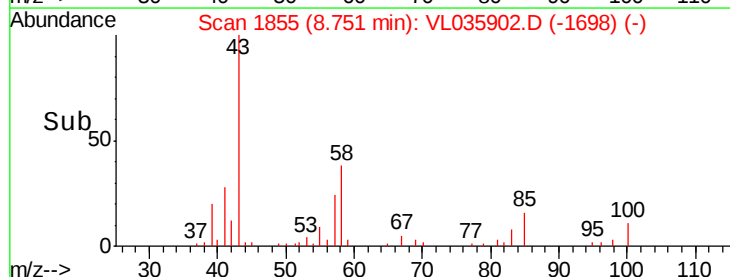
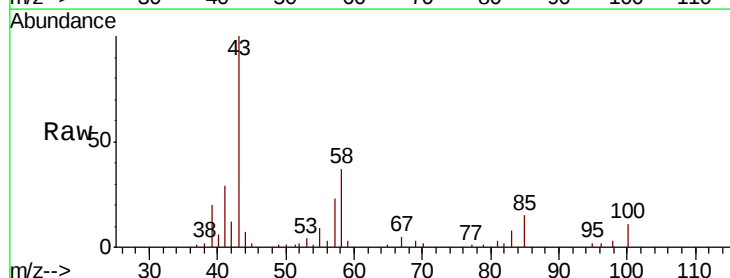
RT: 8.75 min Scan# 1855

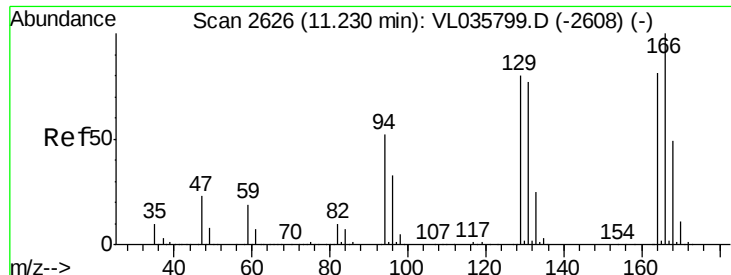
Delta R.T. 0.01 min

Lab File: VL035902.D

Acq: 10 Nov 2020 23:53

Tgt Ion:	43	Resp:	51494
Ion	Ratio	Lower	Upper
43	100		
58	35.9	36.0	54.0#





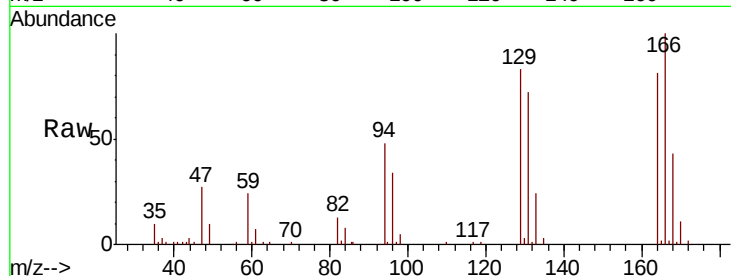
#52
Tetrachloroethene
Concen: 0.423 ppbv
RT: 11.22 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Instrument :
MSVOA_L
ClientSampled :
SSSG-2

Tot Ion	Ratio	Lower	Upper
164	100		
166	121.9	99.3	148.9
129	101.3	79.3	118.9
131	87.6	76.5	114.7

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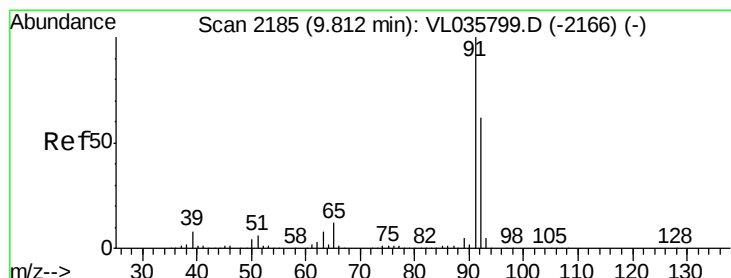
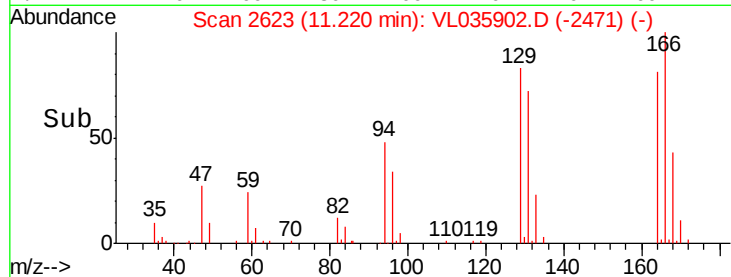
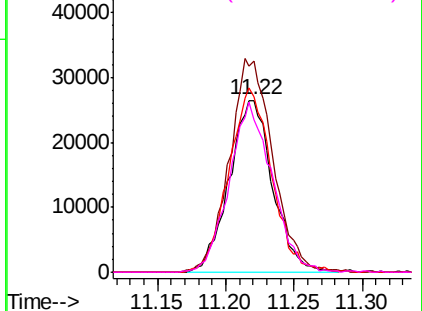
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

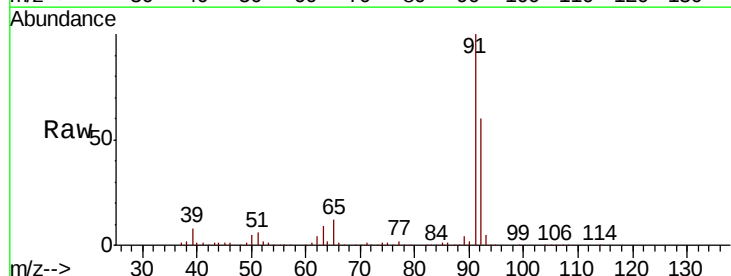
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 1.847 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

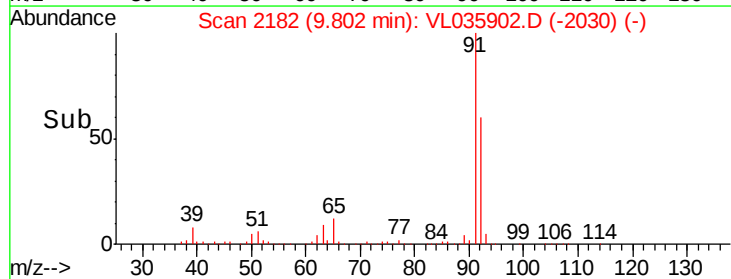
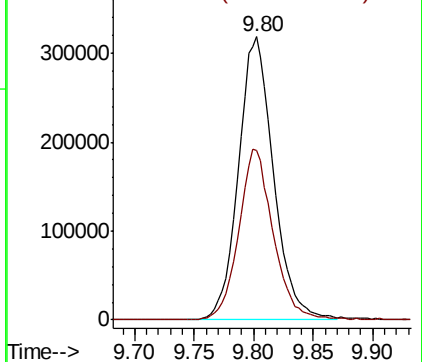
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.7	49.8	74.6

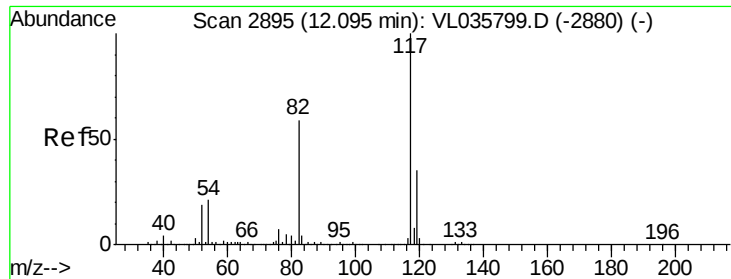


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





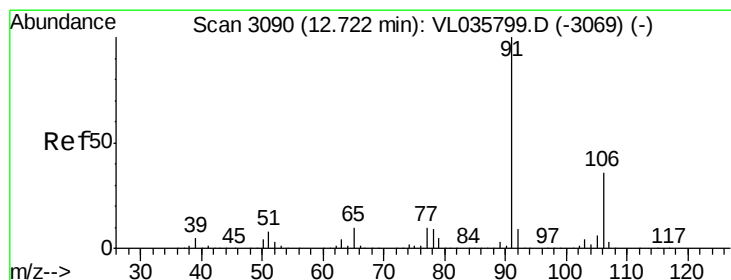
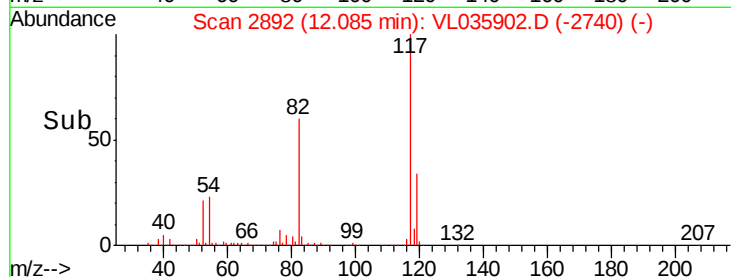
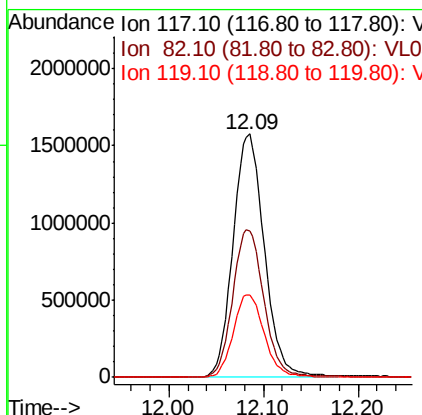
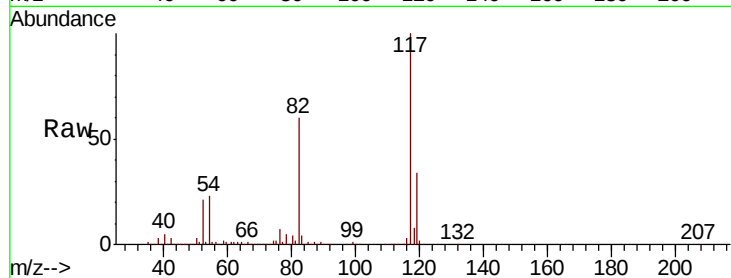
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2

Tot Ion:117 Resp: 3636586
Ion Ratio Lower Upper
117 100
82 61.1 50.6 76.0
119 34.0 52.6 78.8#

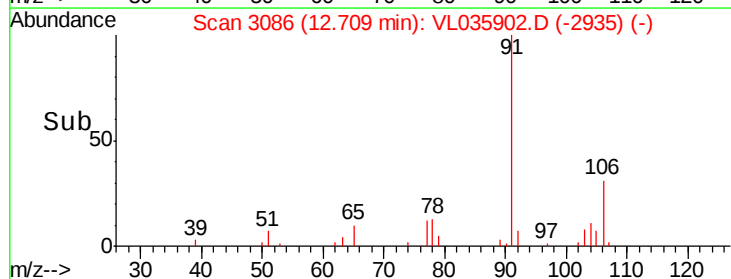
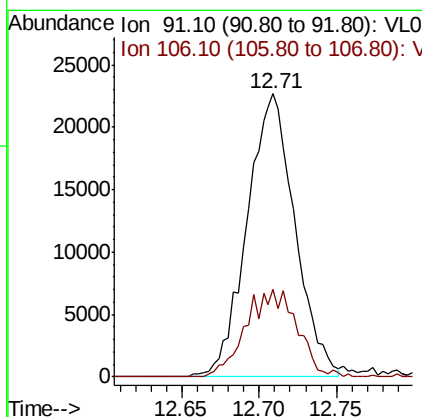
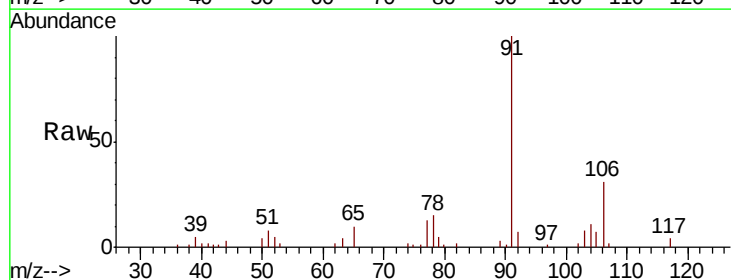
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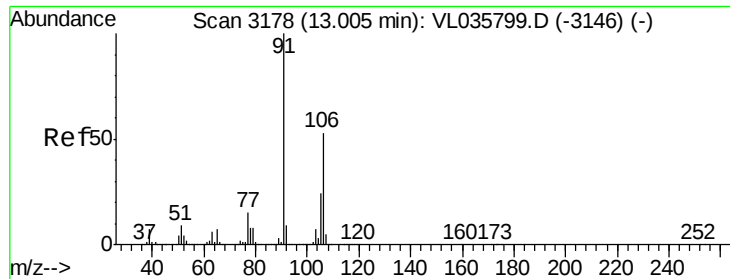
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#58
Ethyl Benzene
Concen: 0.110 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tgt Ion: 91 Resp: 48872
Ion Ratio Lower Upper
91 100
106 30.8 28.6 43.0





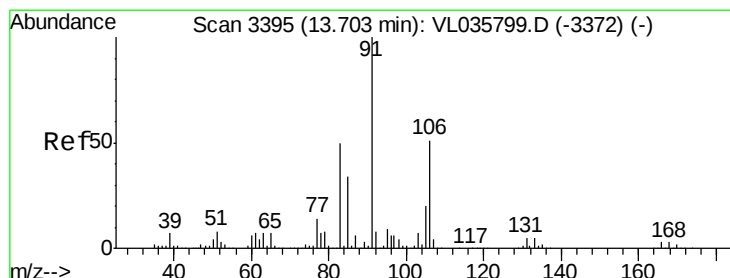
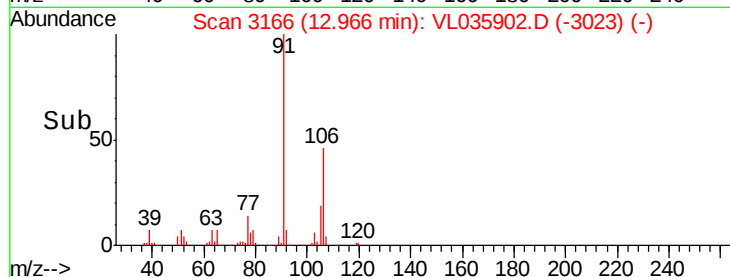
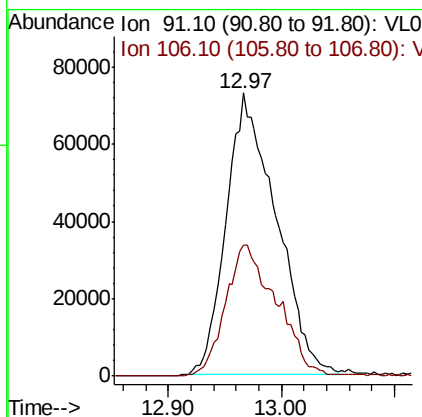
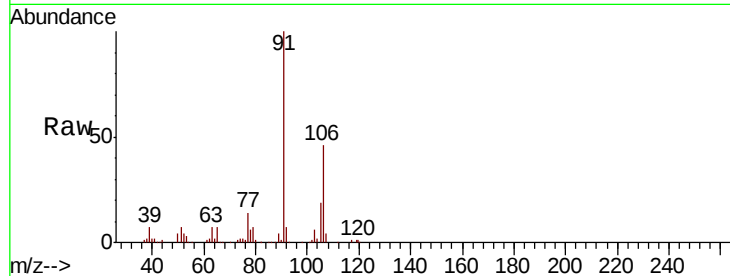
#59
m/p-Xylene
Concen: 0.594 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Instrument :
MSVOA_L
ClientSampled :
SSSG-2

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	47.9	39.5	59.3	

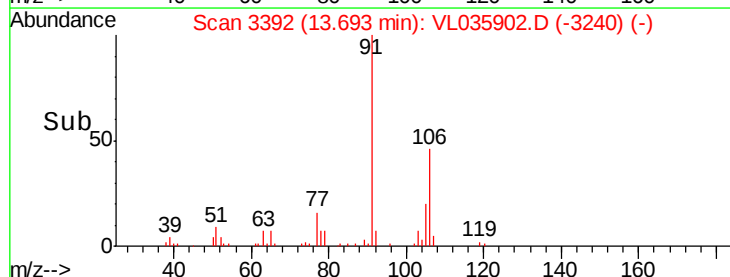
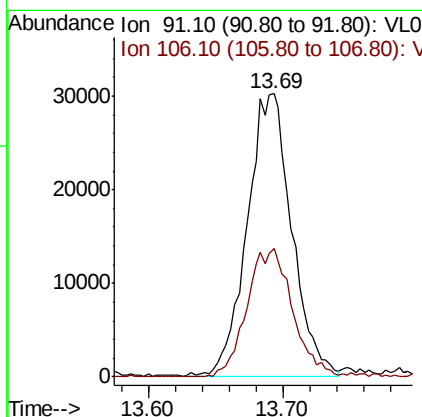
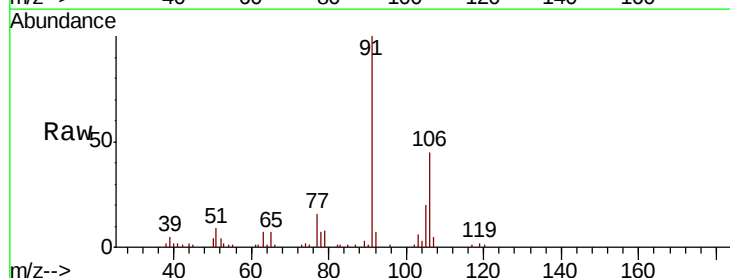
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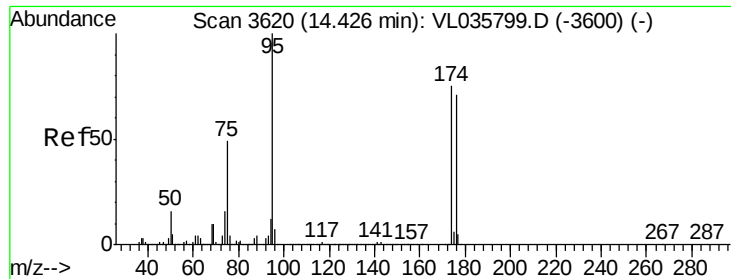
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#60
o-Xylene
Concen: 0.191 ppbv m
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035902.D
Acq: 10 Nov 2020 23:53

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	46.8	24.8	74.4	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.495 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL035902.D
 Acq: 10 Nov 2020 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.0	59.8	89.6
175	5.2	4.3	6.5

Manual Integrations
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