

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035831.D
 Acq On : 4 Nov 2020 13:34
 Operator : SY/AP
 Sample : L4604-01 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
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MMDadoda
 11/5/2020 2:16:31 PM

Quant Time: Nov 05 03:34:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 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	5.64	49	1016394	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4475547	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	4211281	10.00	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3017900	10.09	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%
Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.02	85	31303	0.164	ppbv	97
3) Chlorodifluoromethane	2.96	51	18010m	0.148	ppbv	
9) Propene	2.99	41	72093m	1.618	ppbv	
10) Heptane	8.09	43	13395m	0.109	ppbv	
11) Trichlorofluoromethane	3.93	101	30092	0.125	ppbv	# 83
13) Ethanol	3.59	45	17347m	1.795	ppbv	
15) Acetone	3.83	43	230957	2.125	ppbv	95
20) Methylene Chloride	4.32	84	152882	1.999	ppbv	97
26) Hexane	5.66	57	113188	0.959	ppbv	# 45
29) Chloroform	5.72	83	569473	2.454	ppbv	98
34) 2-Butanone	5.23	43	25343	0.174	ppbv	# 82
35) Carbon Tetrachloride	6.99	117	58319m	0.244	ppbv	
36) Benzene	6.86	78	79961m	0.240	ppbv	
52) Tetrachloroethene	11.19	164	10401m	0.066	ppbv	
53) Toluene	9.78	91	398383	0.992	ppbv	98
58) Ethyl Benzene	12.68	91	203339	0.396	ppbv	96
59) m/p-Xylene	12.94	91	581659	1.340	ppbv	96
60) o-Xylene	13.66	91	246825	0.585	ppbv	99
64) n-propylbenzene	15.54	120	34423m	0.179	ppbv	
69) p-Isopropyltoluene	17.63	119	117134	0.174	ppbv	# 83
70) n-Butylbenzene	18.55	91	206161	0.319	ppbv	95
72) 4-Ethyltoluene	15.82	105	110017	0.215	ppbv	# 95
73) 1,3,5-Trimethylbenzene	15.97	105	70167	0.150	ppbv	# 84
74) 1,2,4-Trimethylbenzene	16.74	105	283705	0.565	ppbv	# 70
80) Naphthalene,2-methyl-	24.96	142	7208	0.126	ppbv	# 81

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

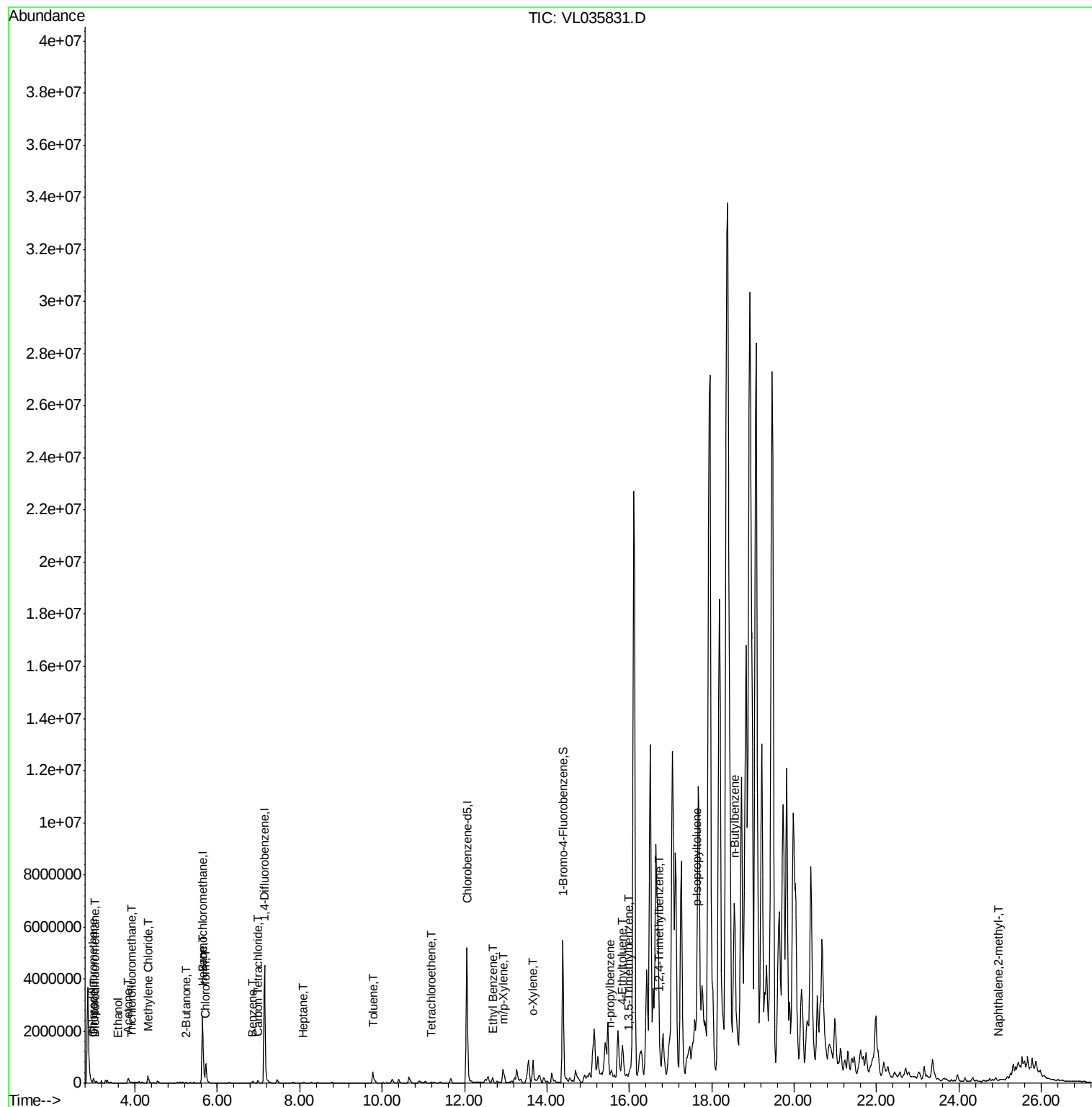
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
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Quant Time: Nov 05 03:34:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.03 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 49 Resp: 1016394

Ion Ratio Lower Upper

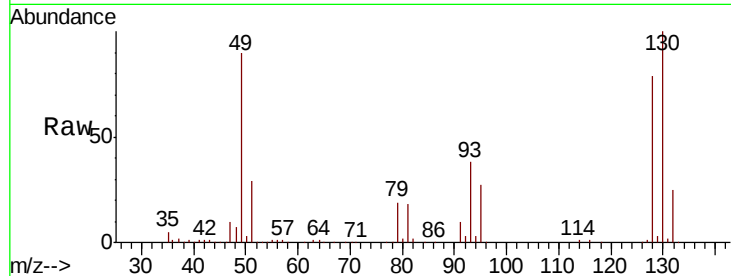
49 100

128 92.7 41.5 124.6

130 118.1 53.7 161.1

Manual Integrations
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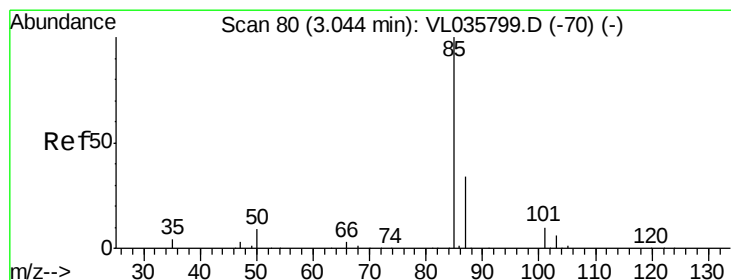
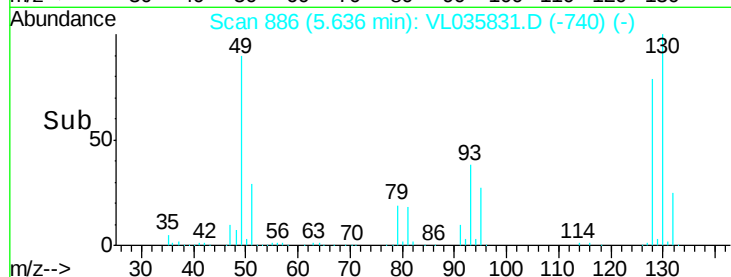
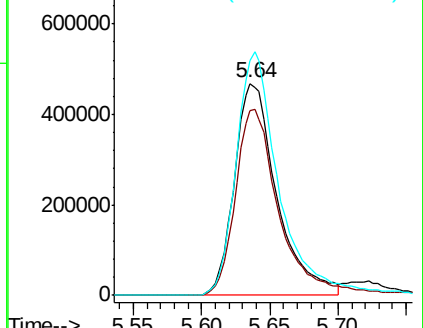
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.164 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035831.D

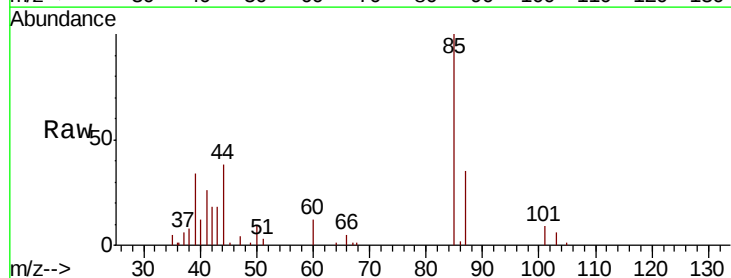
Acq: 4 Nov 2020 13:34

Tgt Ion: 85 Resp: 31303

Ion Ratio Lower Upper

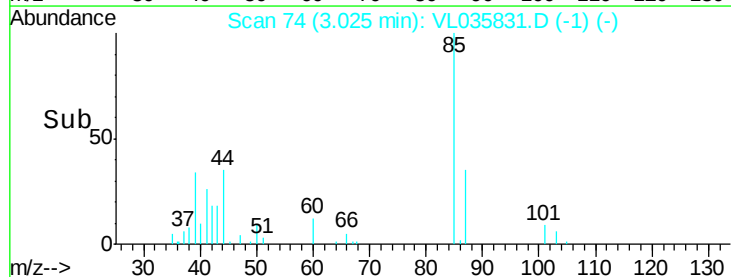
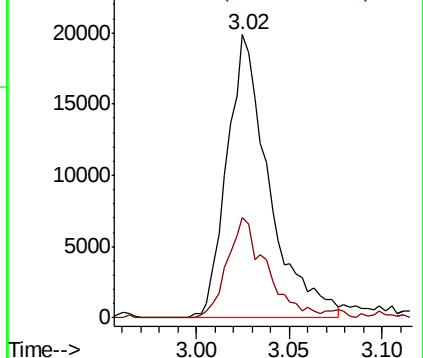
85 100

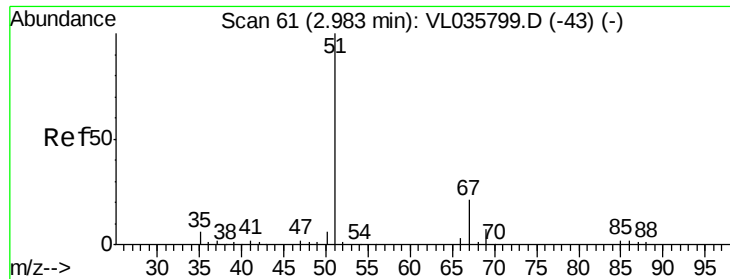
87 35.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.148 ppbv m

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 51 Resp: 18010

Ion Ratio Lower Upper

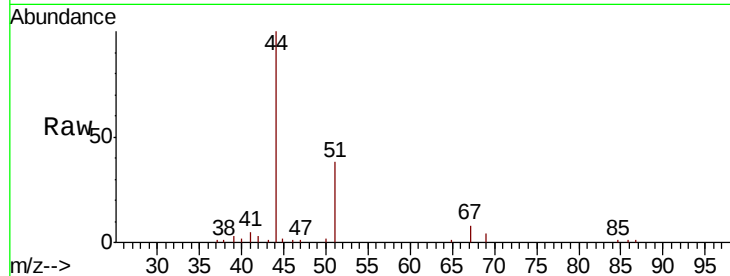
51 100

67 1.3 17.0 25.4#

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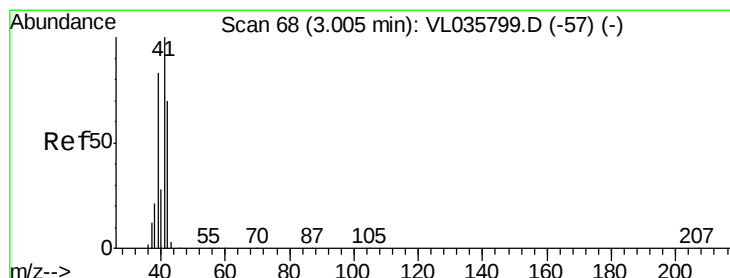
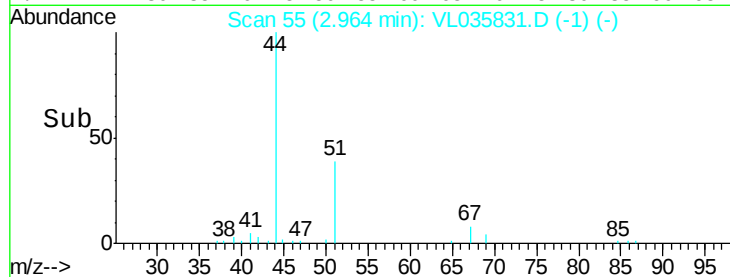
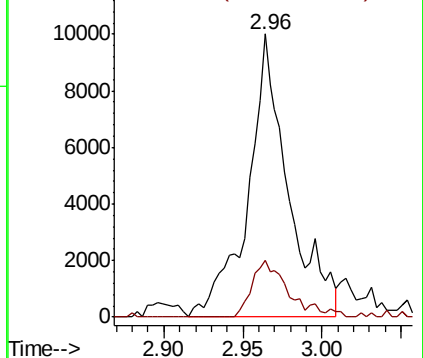
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.618 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. -0.02 min

Lab File: VL035831.D

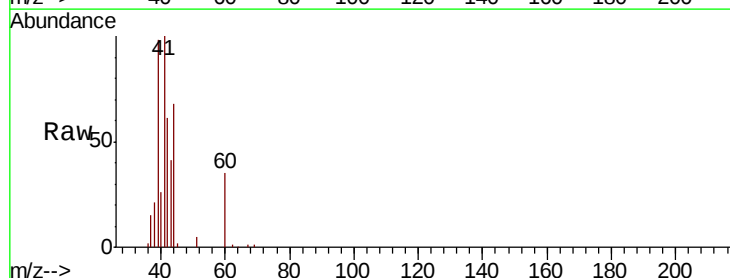
Acq: 4 Nov 2020 13:34

Tgt Ion: 41 Resp: 72093

Ion Ratio Lower Upper

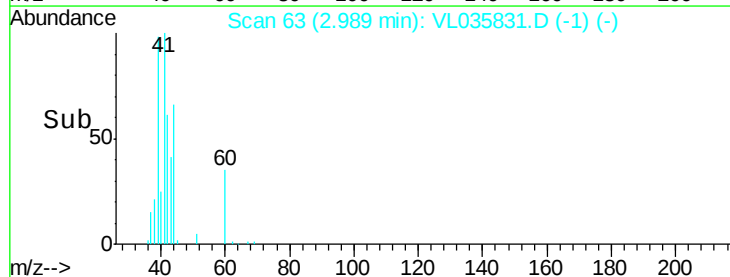
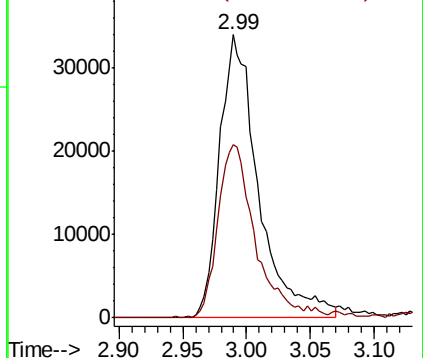
41 100

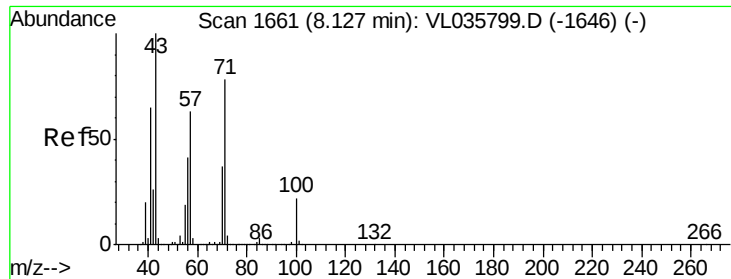
42 60.2 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





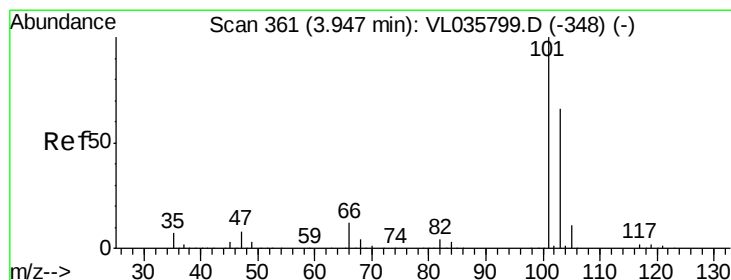
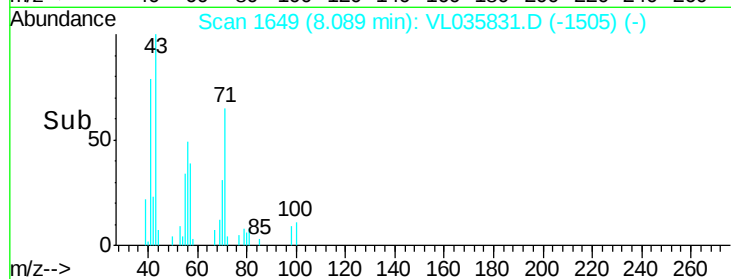
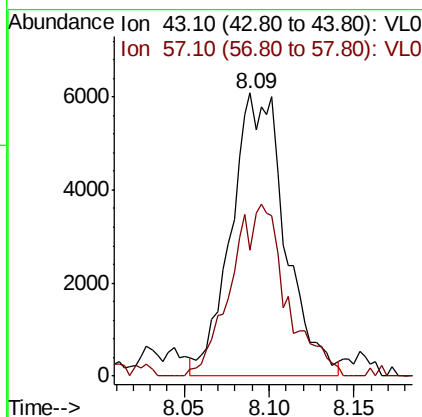
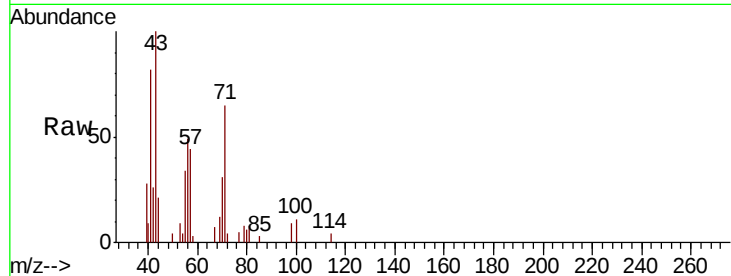
#10
Heptane
Concen: 0.109 ppbv m
RT: 8.09 min Scan# 1649
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 43 Resp: 13395
Ion Ratio Lower Upper
43 100
57 0.0 50.0 75.0#

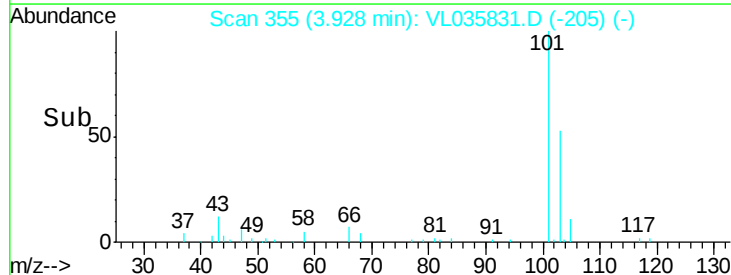
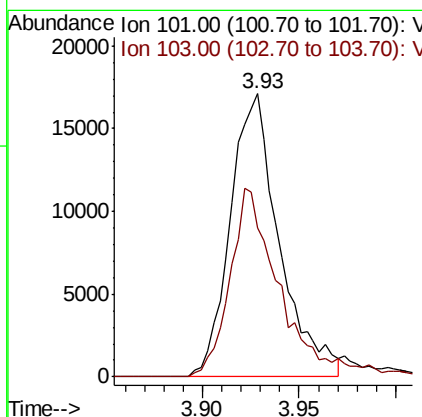
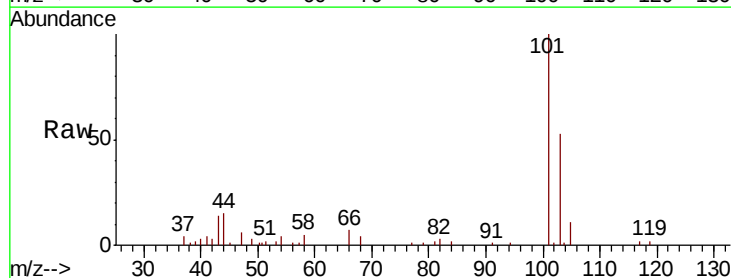
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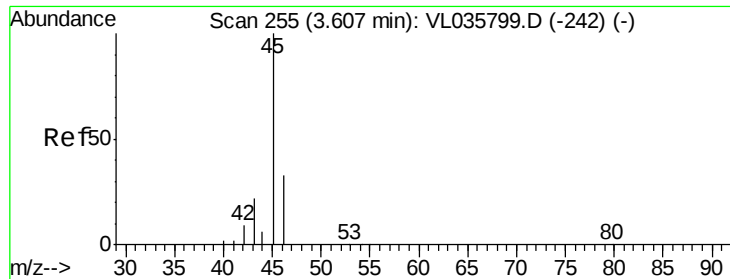
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#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion: 101 Resp: 30092
Ion Ratio Lower Upper
101 100
103 52.7 53.0 79.4#





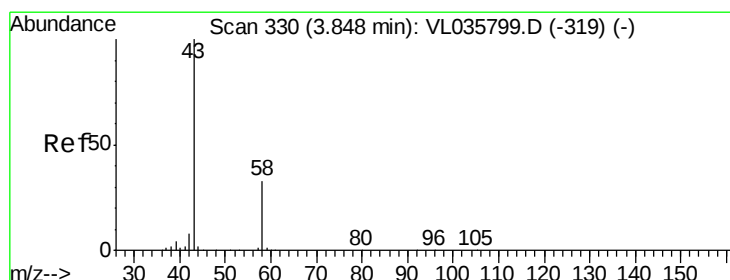
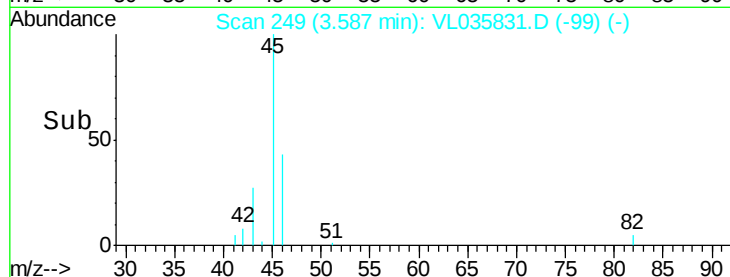
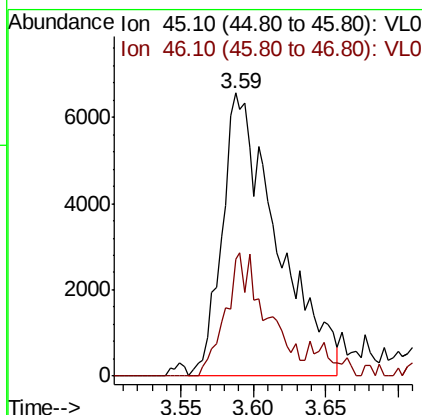
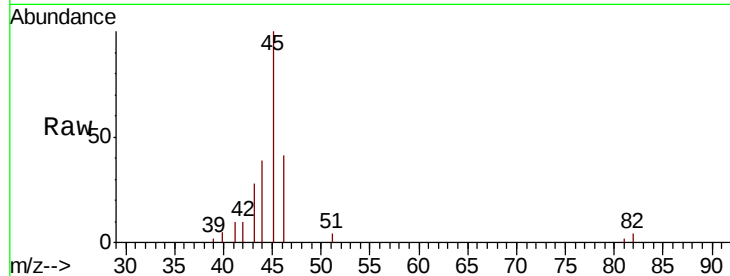
#13
Ethanol
Concen: 1.795 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 45 Resp: 17347
Ion Ratio Lower Upper
45 100
46 38.8 16.1 64.5

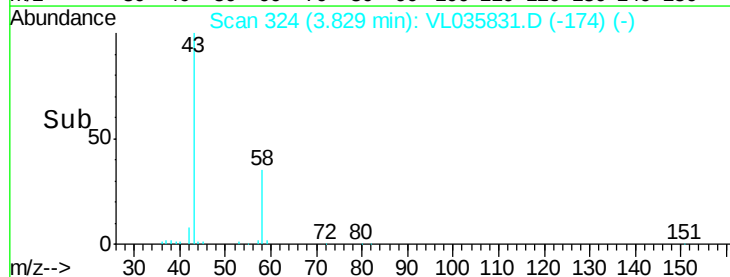
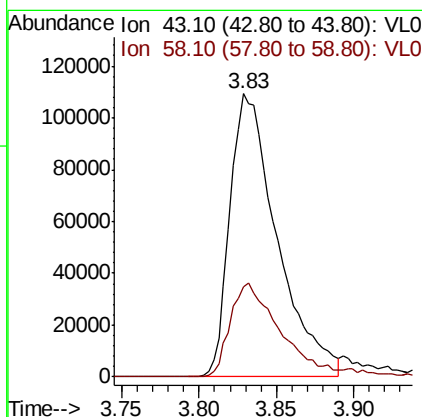
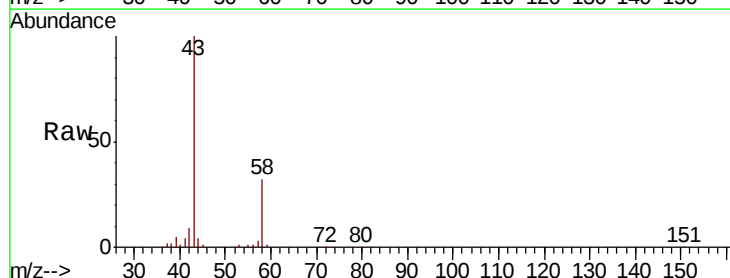
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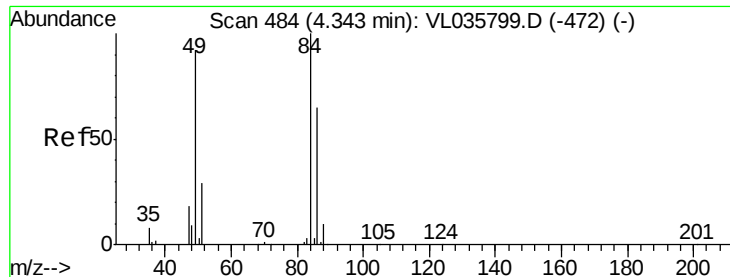
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#15
Acetone
Concen: 2.125 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.02 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion: 43 Resp: 230957
Ion Ratio Lower Upper
43 100
58 37.1 27.5 41.3





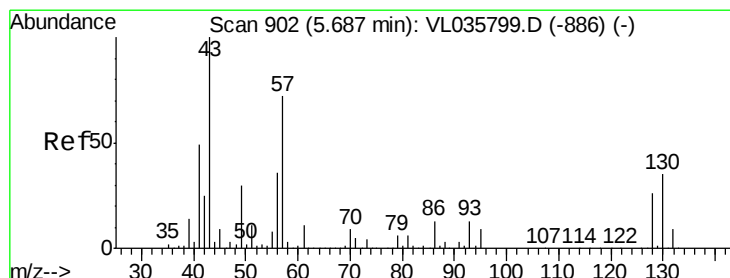
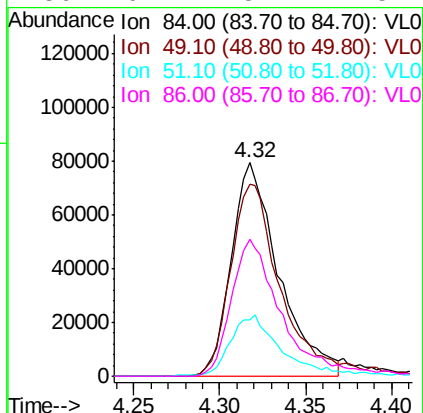
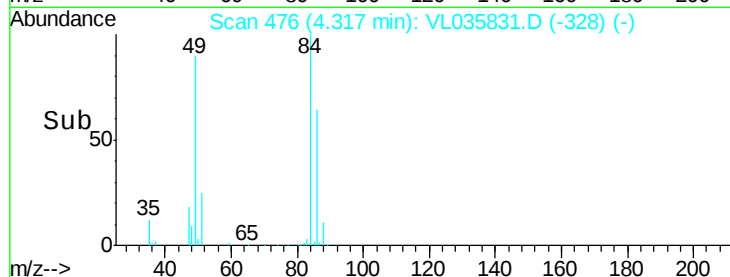
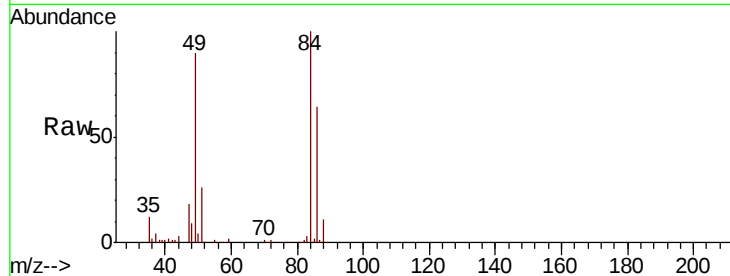
#20
Methvlene Chloride
Concen: 1.999 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.03 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	84	Resp	152882
Ion Ratio	Lower	Upper	
84	100		
49	89.7	73.8	110.8
51	25.8	23.0	34.4
86	64.1	52.1	78.1

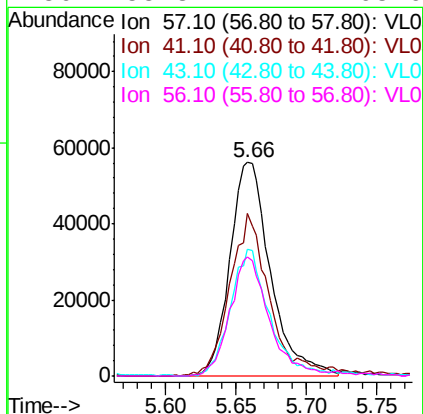
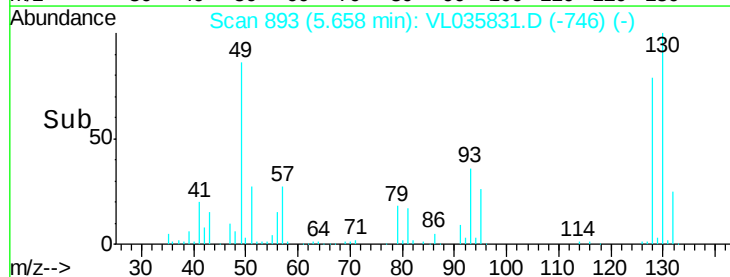
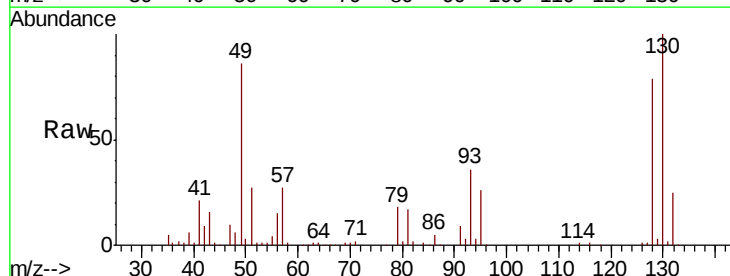
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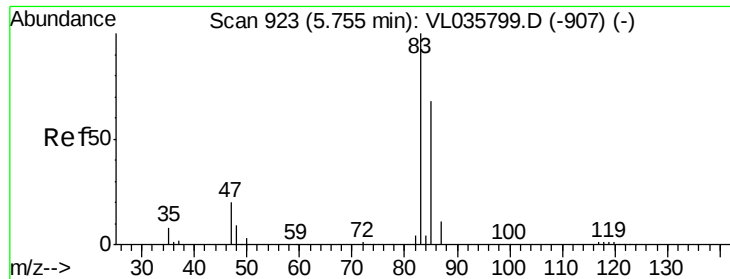
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#26
Hexane
Concen: 0.959 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion	57	Resp	113188
Ion Ratio	Lower	Upper	
57	100		
41	78.5	58.9	88.3
43	58.9	150.2	225.2#
56	55.3	42.4	63.6





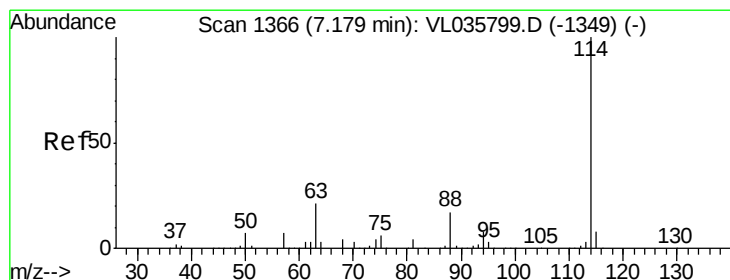
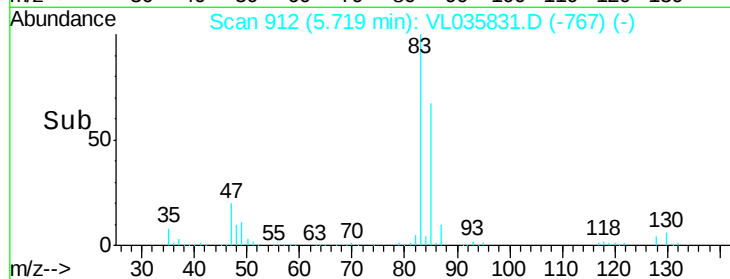
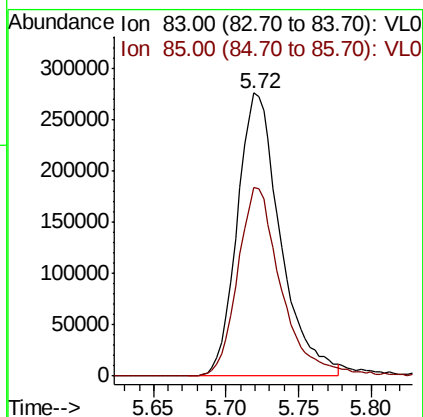
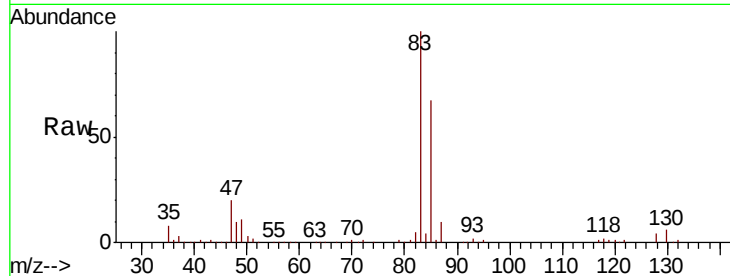
#29
Chloroform
Concen: 2.454 ppbv
RT: 5.72 min Scan# 912
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 83 Resp: 569473
Ion Ratio Lower Upper
83 100
85 66.6 54.6 81.8

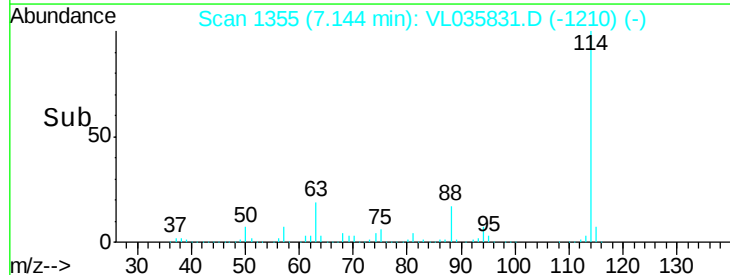
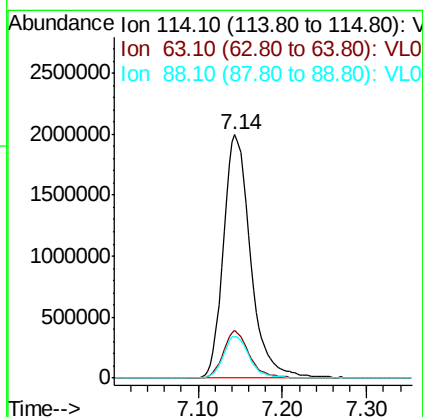
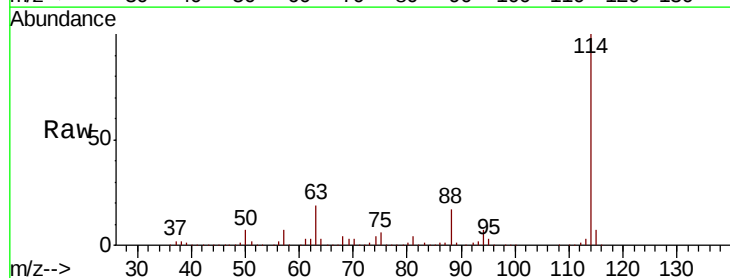
Manual Integrations
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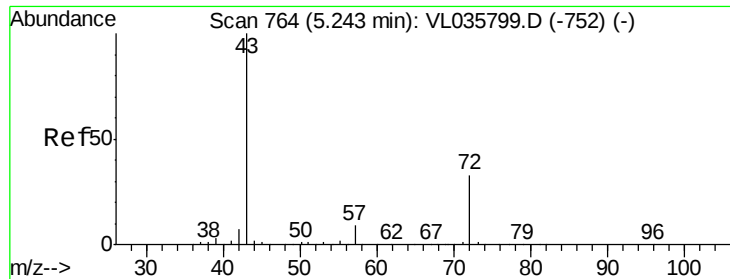
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion: 114 Resp: 4475547
Ion Ratio Lower Upper
114 100
63 18.7 16.1 24.1
88 16.7 13.7 20.5





#34

2-Butanone

Concen: 0.174 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.01 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 43 Resp: 25343

Ion Ratio Lower Upper

43 100

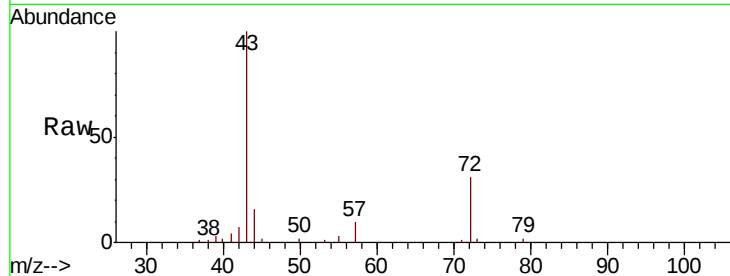
72 43.4 26.5 39.7#

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

5.23

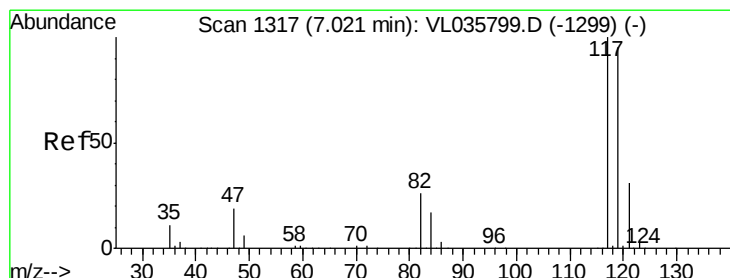
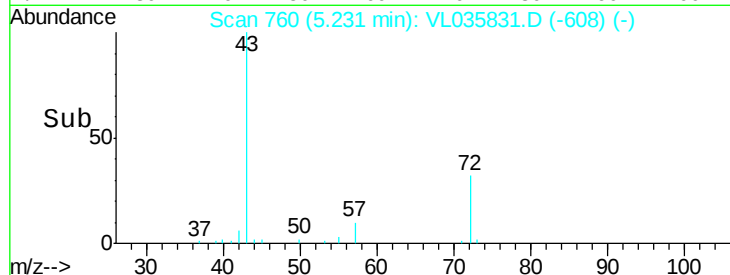
15000

10000

5000

0

Time-->



#35

Carbon Tetrachloride

Concen: 0.244 ppbv m

RT: 6.99 min Scan# 1306

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

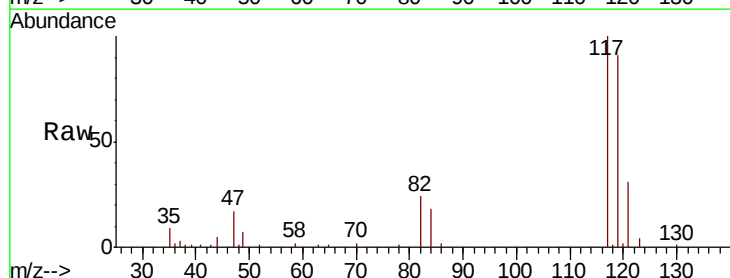
Tgt Ion: 117 Resp: 58319

Ion Ratio Lower Upper

117 100

119 91.2 75.6 113.4

121 30.6 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

6.99

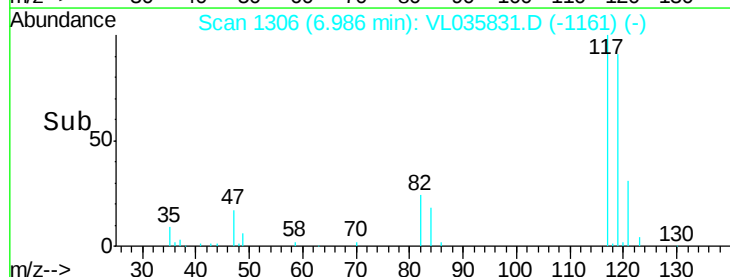
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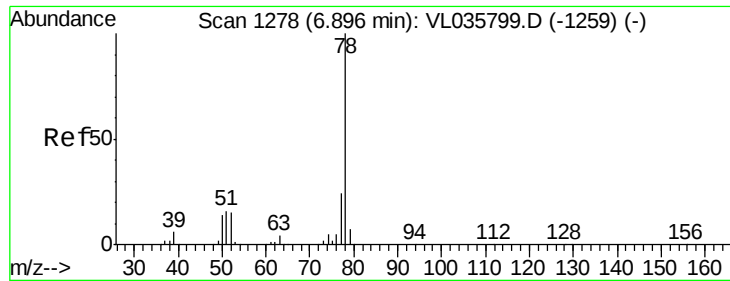
20000

10000

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Time-->





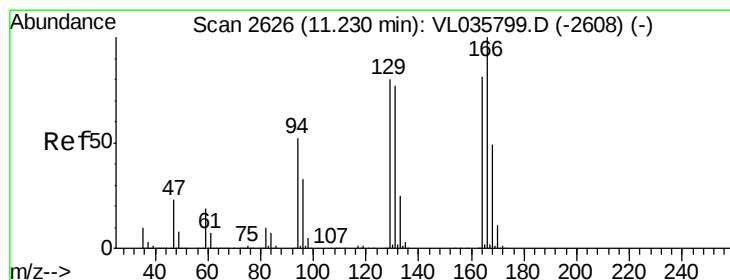
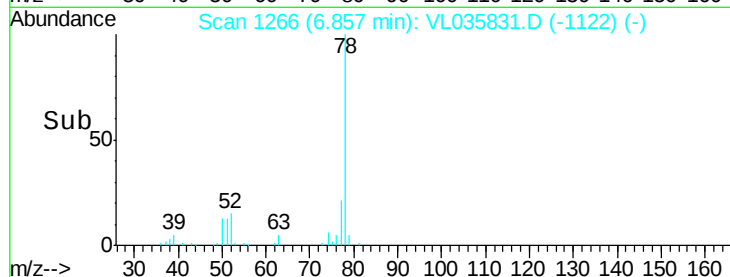
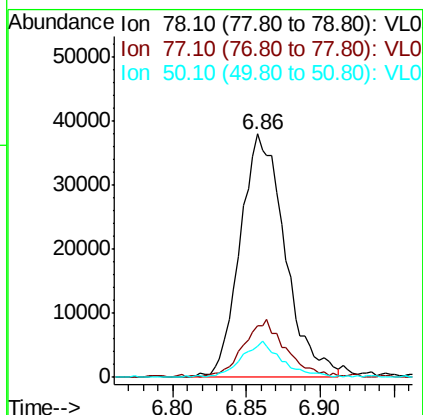
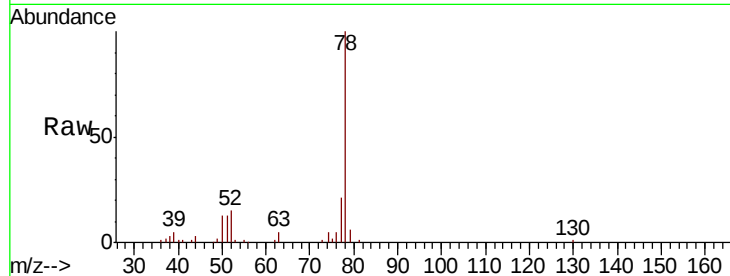
#36
Benzene
Concen: 0.240 ppbv m
RT: 6.86 min Scan# 1266
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.3	28.9
50	12.8	11.4	17.2

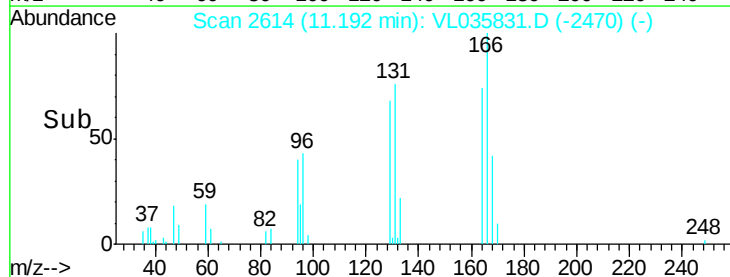
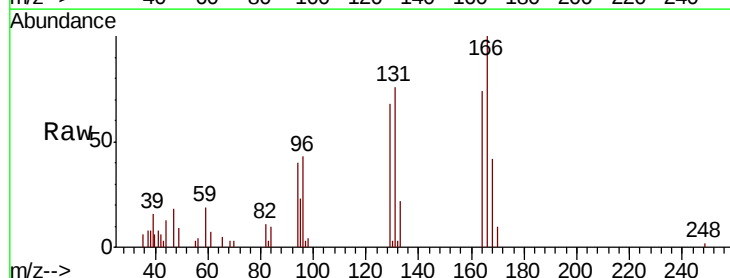
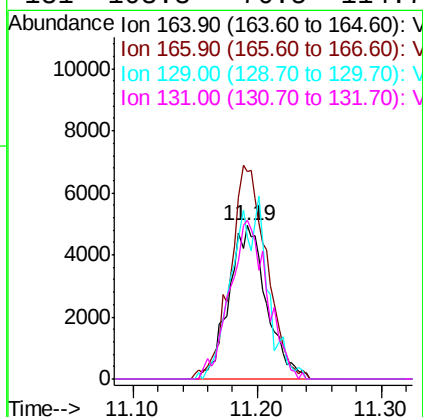
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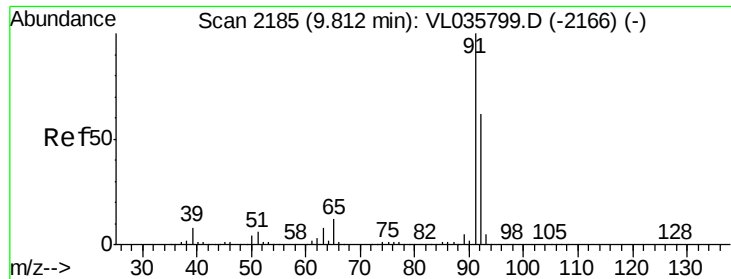
MMDadoda
11/5/2020 2:16:31 PM



#52
Tetrachloroethene
Concen: 0.066 ppbv m
RT: 11.19 min Scan# 2614
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.7	99.3	148.9
129	92.7	79.3	118.9
131	103.3	76.5	114.7





#53

Toluene

Concen: 0.992 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 91 Resp: 398383

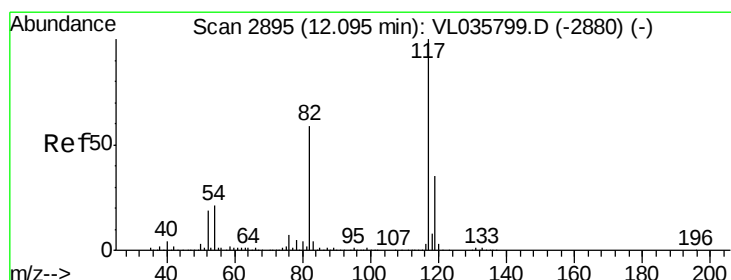
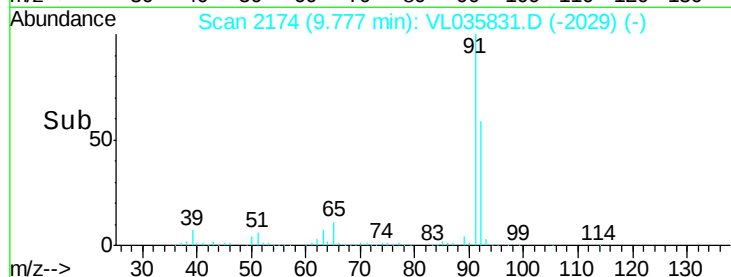
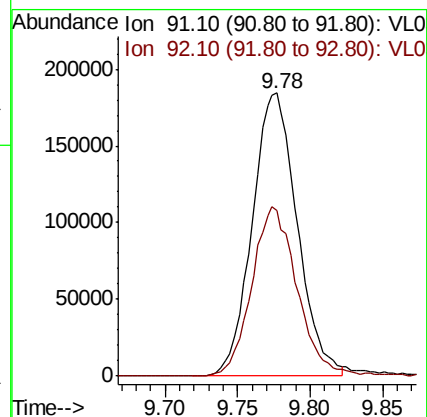
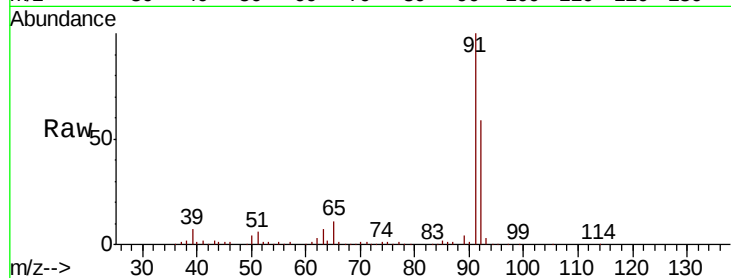
Ion Ratio Lower Upper

91 100

92 61.0 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

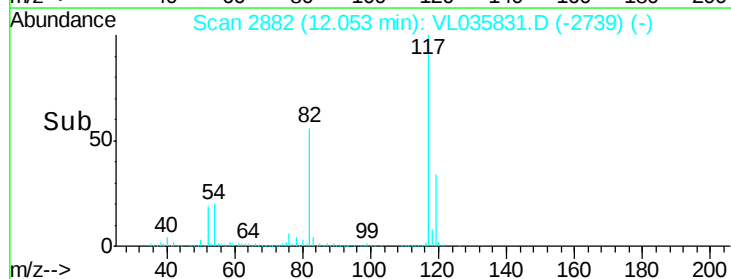
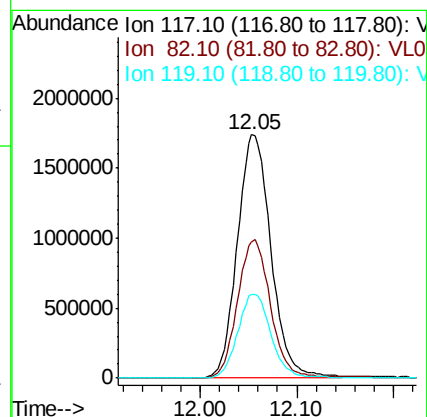
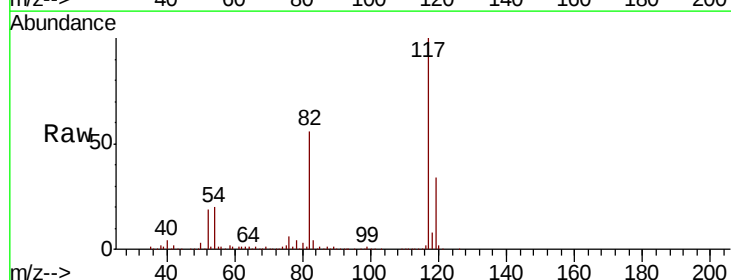
Tgt Ion: 117 Resp: 4211281

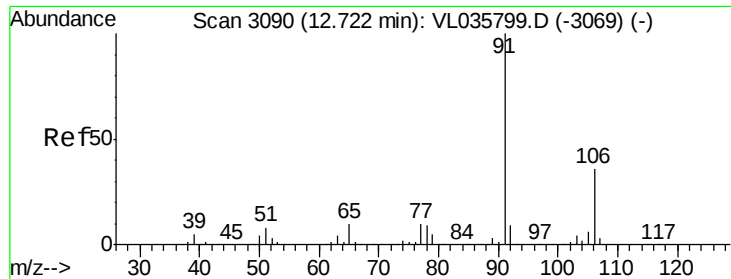
Ion Ratio Lower Upper

117 100

82 56.9 50.6 76.0

119 34.1 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.396 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 91 Resp: 203339

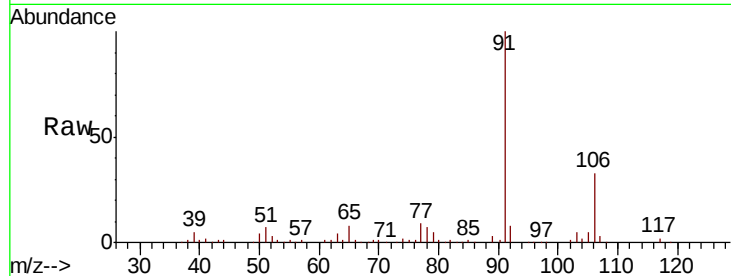
Ion Ratio Lower Upper

91 100

106 33.3 28.6 43.0

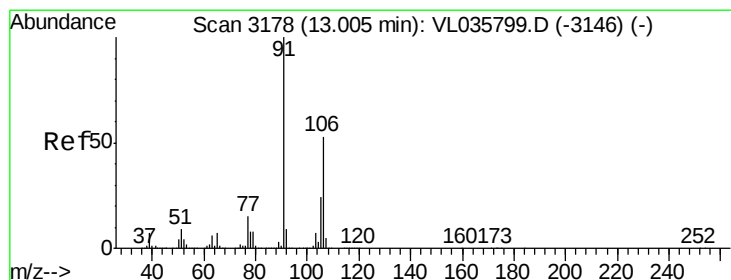
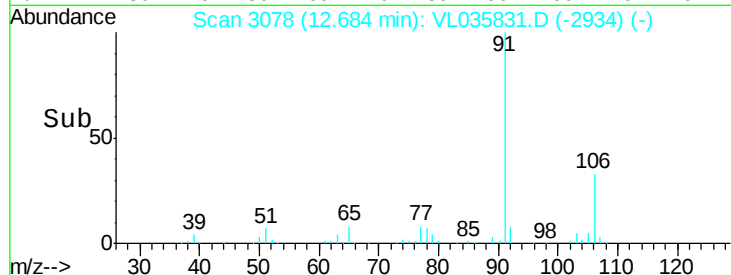
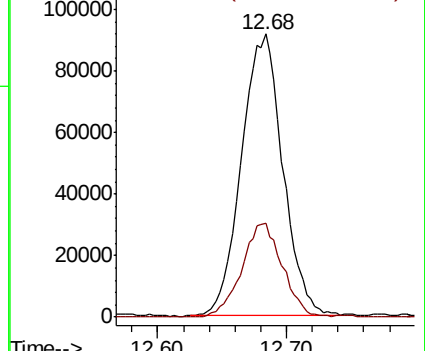
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.340 ppbv

RT: 12.94 min Scan# 3157

Delta R.T. -0.07 min

Lab File: VL035831.D

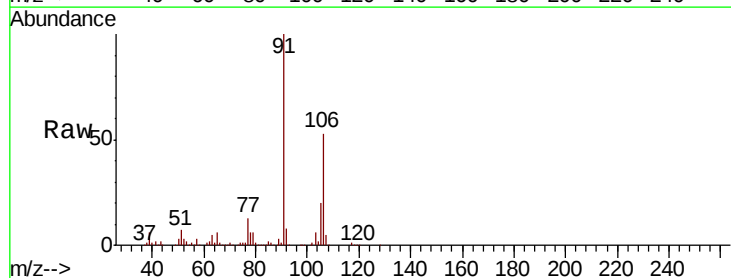
Acq: 4 Nov 2020 13:34

Tgt Ion: 91 Resp: 581659

Ion Ratio Lower Upper

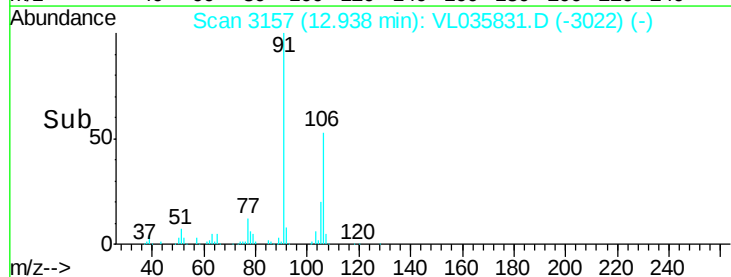
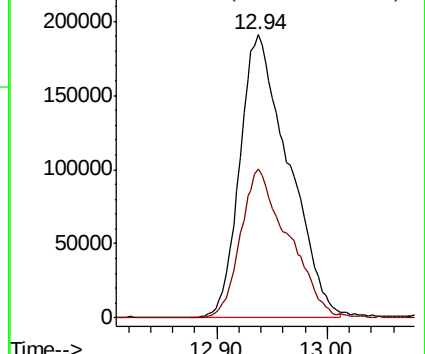
91 100

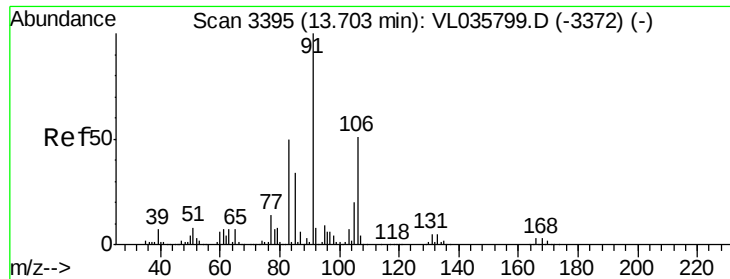
106 52.0 39.5 59.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





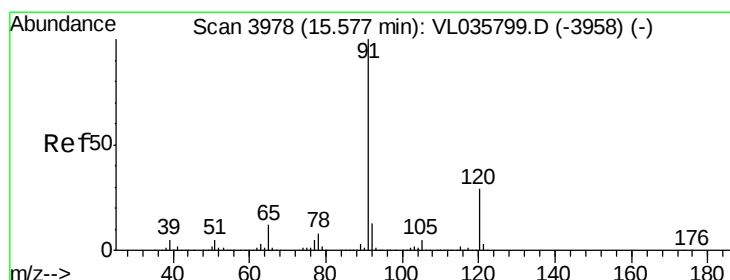
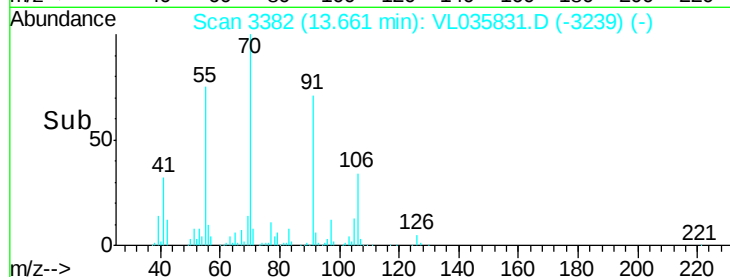
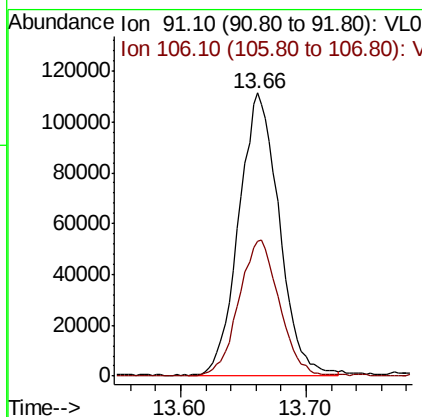
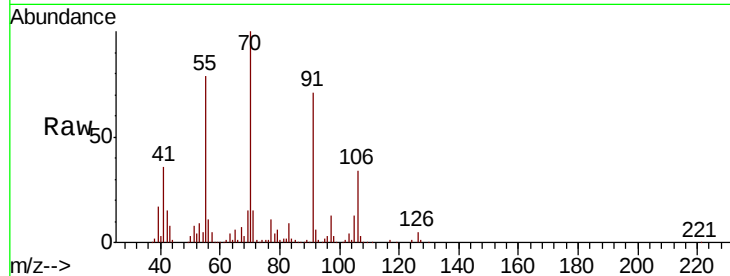
#60
o-Xylene
Concen: 0.585 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 91 Resp: 246825
Ion Ratio Lower Upper
91 100
106 49.2 24.8 74.4

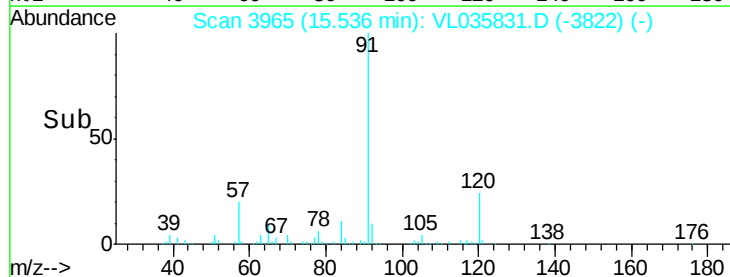
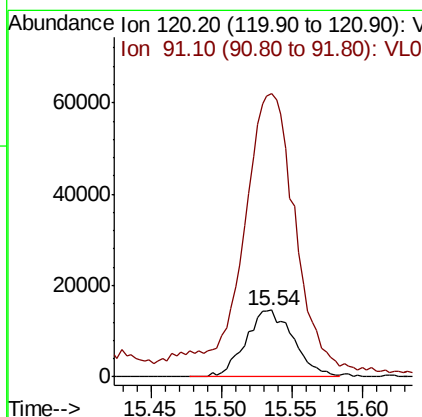
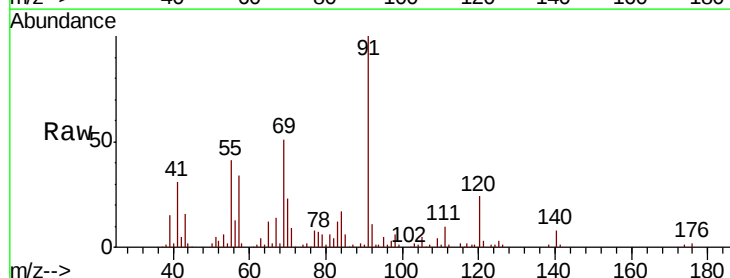
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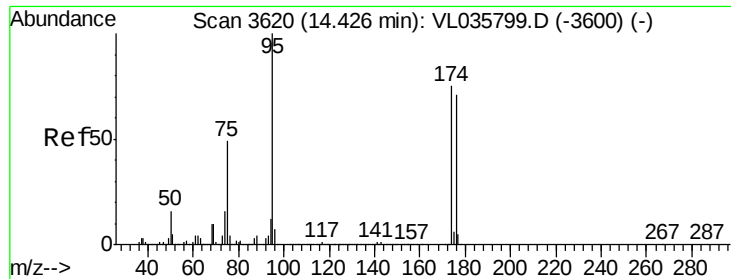
MMDadoda
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#64
n-propylbenzene
Concen: 0.179 ppbv m
RT: 15.54 min Scan# 3965
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion: 120 Resp: 34423
Ion Ratio Lower Upper
120 100
91 469.1 311.1 466.7#





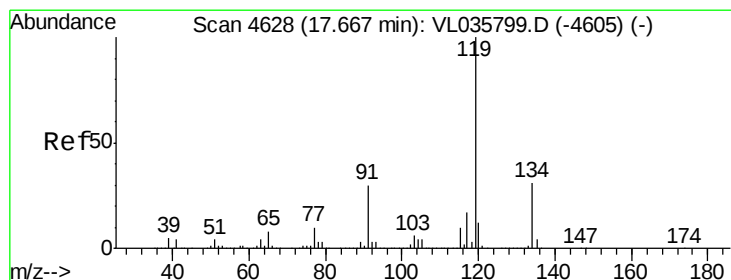
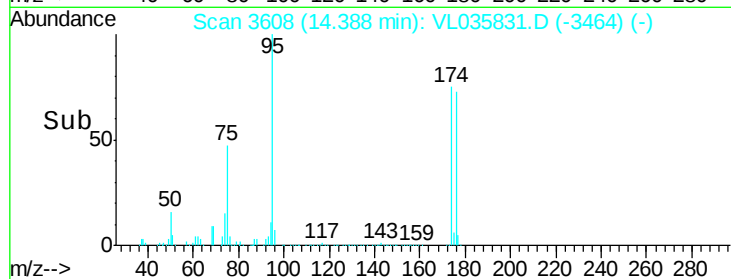
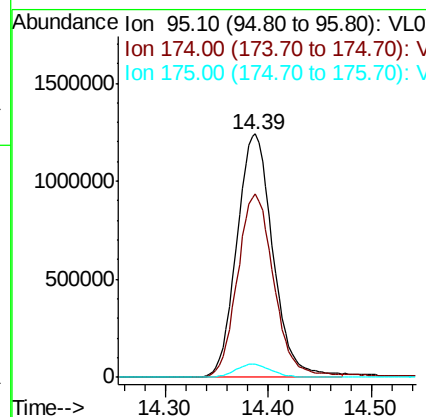
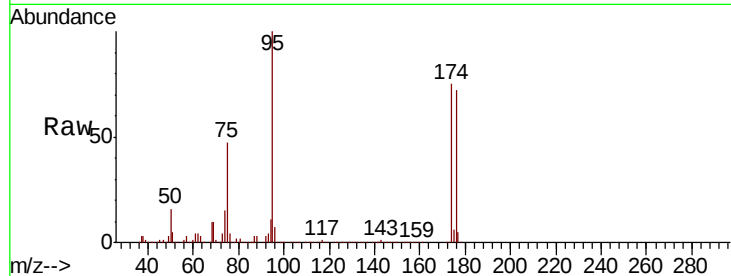
#68
1-Bromo-4-Fluorobenzene
Concen: 10.086 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion: 95 Resp: 3017900
Ion Ratio Lower Upper
95 100
174 78.1 59.8 89.6
175 5.6 4.3 6.5

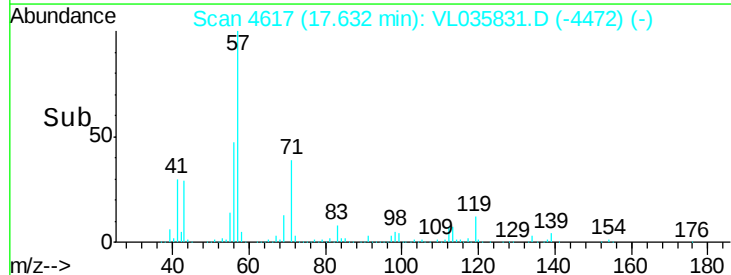
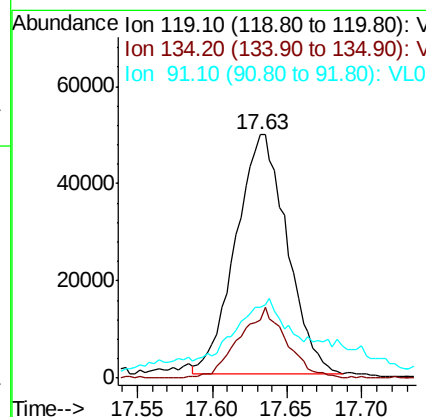
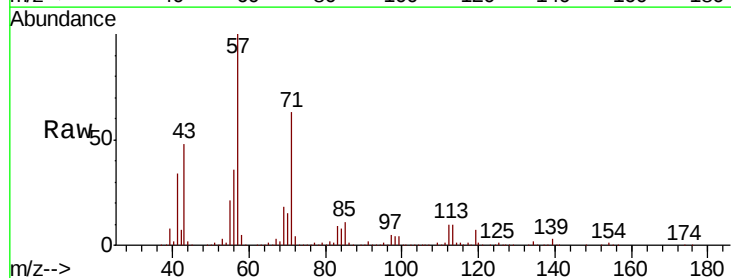
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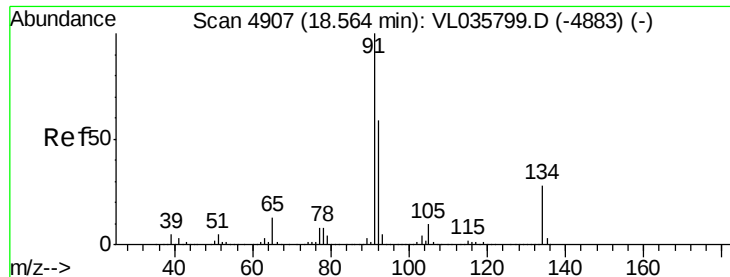
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#69
p-Isopropyltoluene
Concen: 0.174 ppbv
RT: 17.63 min Scan# 4617
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion: 119 Resp: 117134
Ion Ratio Lower Upper
119 100
134 27.5 23.0 34.6
91 45.6 22.8 34.2#





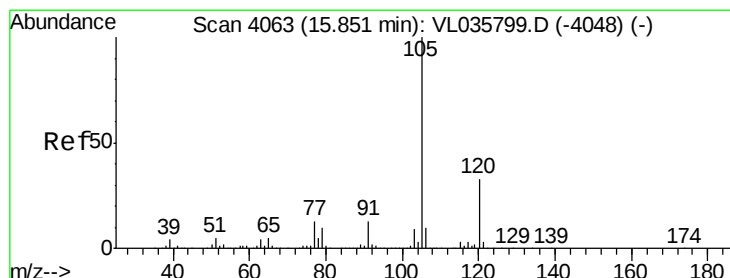
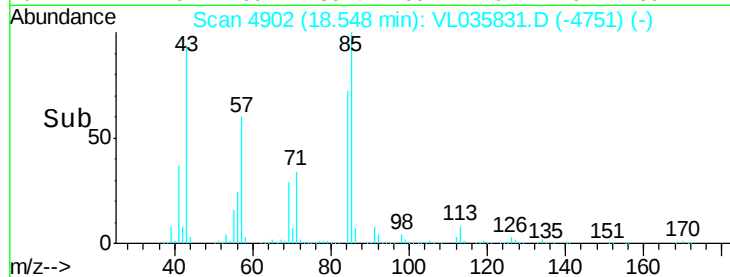
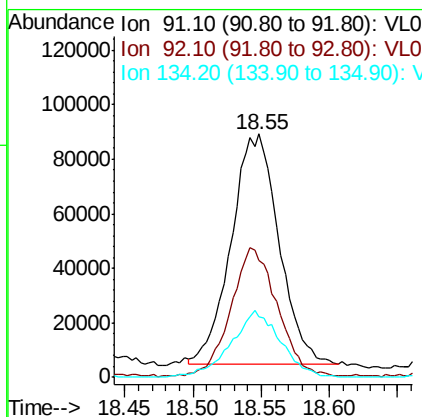
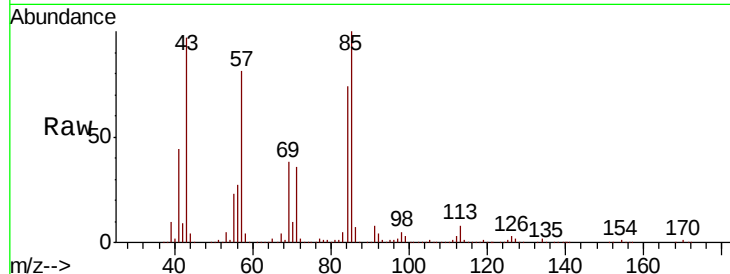
#70
n-Butylbenzene
Concen: 0.319 ppbv
RT: 18.55 min Scan# 4902
Delta R.T. -0.02 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Resp	Lower	Upper
91	100	206161		
92	54.3		45.7	68.5
134	30.0		21.0	31.4

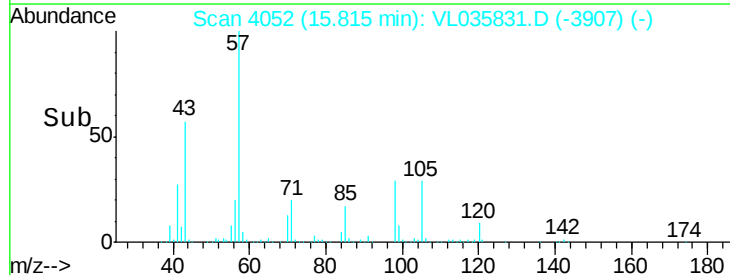
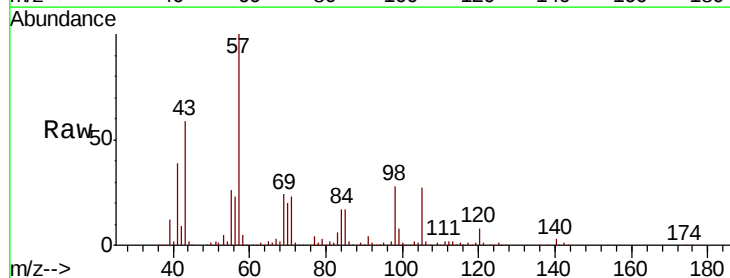
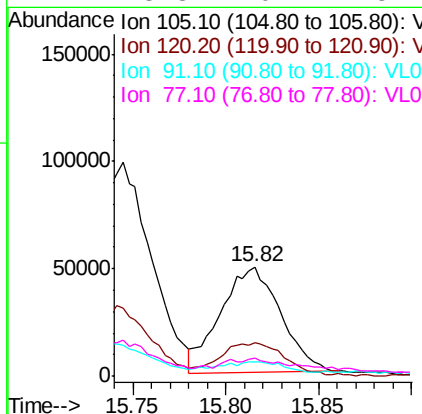
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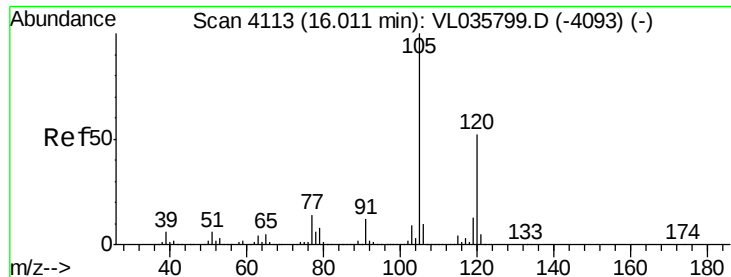
MMDadoda
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#72
4-Ethyltoluene
Concen: 0.215 ppbv
RT: 15.82 min Scan# 4052
Delta R.T. -0.04 min
Lab File: VL035831.D
Acq: 4 Nov 2020 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	110017		
120	34.0		25.9	38.9
91	12.2		9.9	14.9
77	18.3		10.2	15.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.150 ppbv

RT: 15.97 min Scan# 4101

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion:105 Resp: 70167

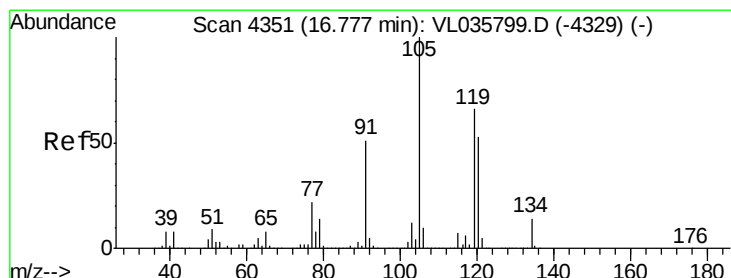
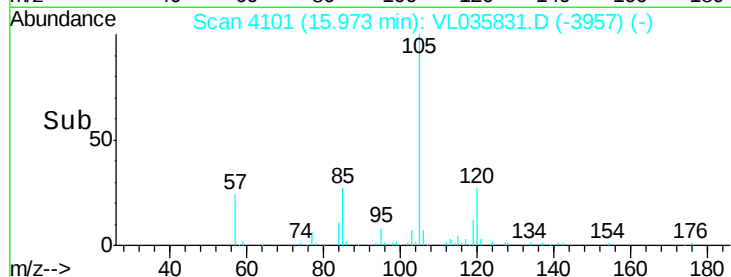
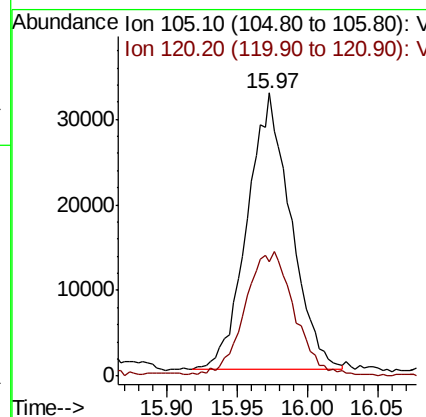
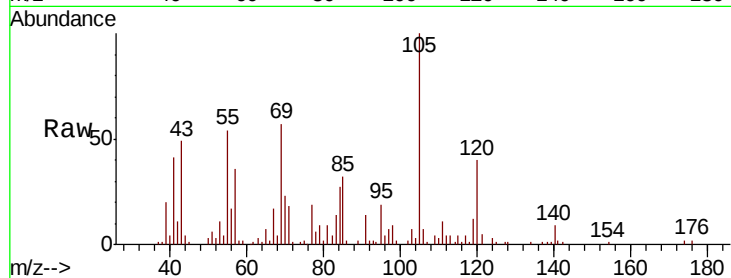
Ion Ratio Lower Upper

105 100

120 40.3 41.4 62.2#

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#74

1,2,4-Trimethylbenzene

Concen: 0.565 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.04 min

Lab File: VL035831.D

Acq: 4 Nov 2020 13:34

Tgt Ion:105 Resp: 283705

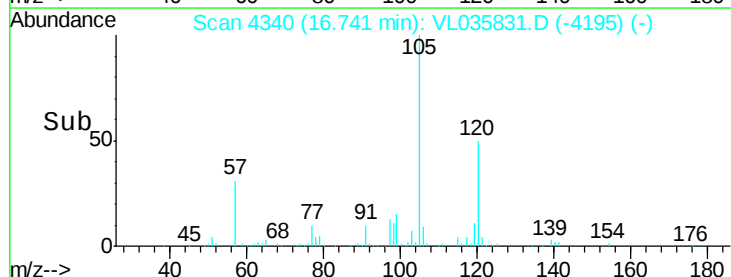
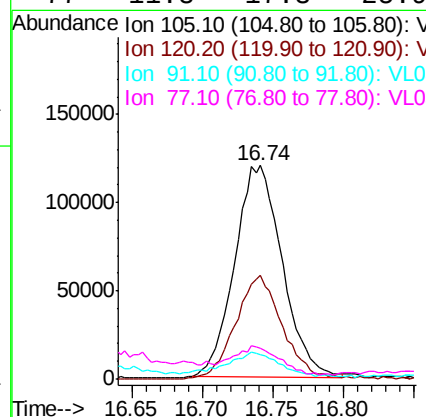
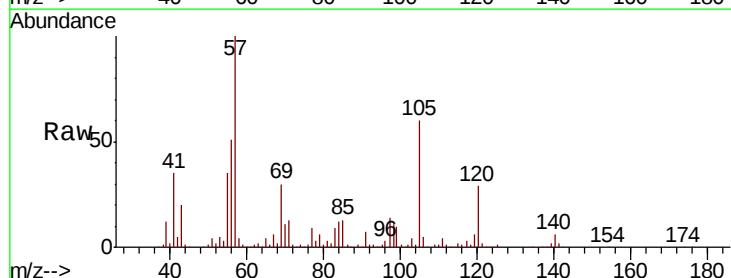
Ion Ratio Lower Upper

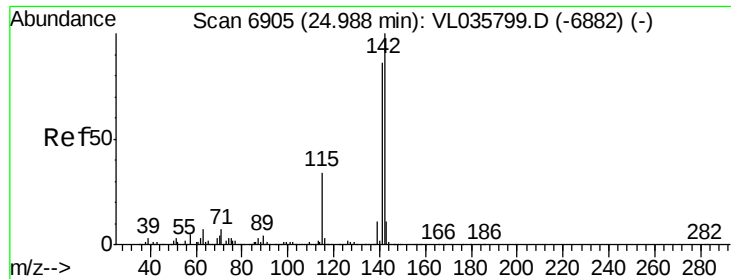
105 100

120 48.4 42.0 63.0

91 10.5 41.0 61.6#

77 11.8 17.3 25.9#





#80
 Naphthalene, 2-methyl-
 Concen: 0.126 ppbv
 RT: 24.96 min Scan# 6895
 Delta R.T. -0.03 min
 Lab File: VL035831.D
 Acq: 4 Nov 2020 13:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tot Ion	Ratio	Lower	Upper
142	100		
141	107.5	67.8	101.8#
115	32.1	28.1	42.1

Manual Integrations
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