

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035844.D
 Acq On : 4 Nov 2020 22:42
 Operator : SY/AP
 Sample : L4220-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

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 11/5/2020 2:17:43 PM

Quant Time: Nov 05 05:08:25 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	838459	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	3853445	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	3465233	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2433279	9.88	ppbv	-0.05	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	48620	0.308	ppbv	94
3) Chlorodifluoromethane	2.97	51	48942	0.487	ppbv #	88
4) Chloromethane	3.11	50	24027	0.493	ppbv	100
9) Propene	2.99	41	65486	1.782	ppbv	86
11) Trichlorofluoromethane	3.92	101	49384	0.249	ppbv	100
13) Ethanol	3.59	45	135941	17.051	ppbv	95
15) Acetone	3.83	43	409165	4.565	ppbv	96
19) Isopropyl Alcohol	3.96	45	26290m	0.477	ppbv	
20) Methylene Chloride	4.31	84	1155926	18.318	ppbv	99
26) Hexane	5.65	57	663750	6.816	ppbv #	45
30) Cyclohexane	7.10	84	17214m	0.162	ppbv	
34) 2-Butanone	5.22	43	19940	0.159	ppbv #	80
35) Carbon Tetrachloride	6.99	117	11138	0.054	ppbv	88
36) Benzene	6.86	78	91643	0.320	ppbv	94
44) 2,2,4-Trimethylpentane	7.84	57	49639	0.131	ppbv #	79
52) Tetrachloroethene	11.19	164	6600m	0.049	ppbv	
53) Toluene	9.77	91	211964	0.613	ppbv	99
59) m/p-Xylene	12.93	91	69459m	0.195	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	43266	0.105	ppbv #	66

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

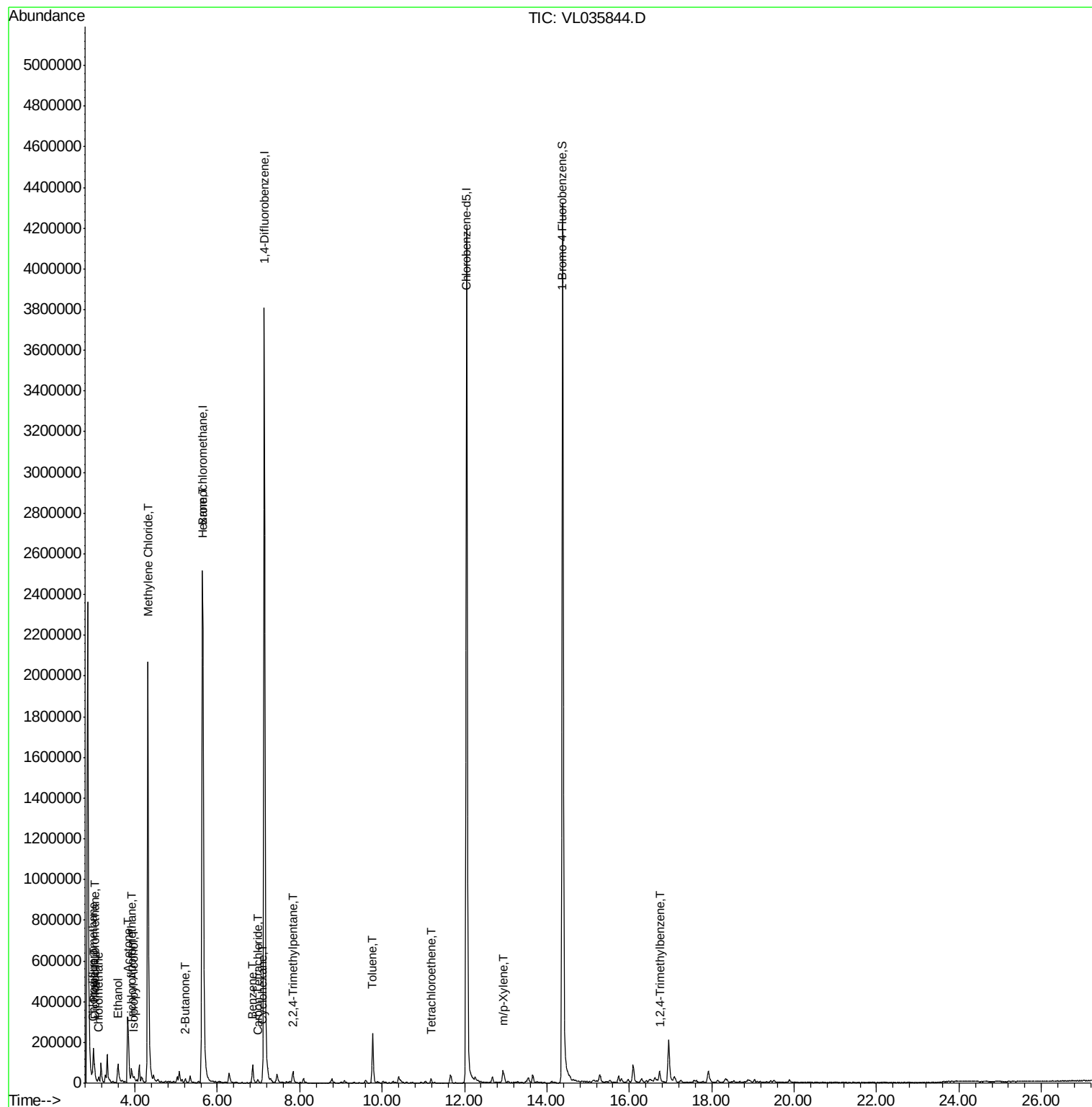
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
Data File : VL035844.D
Acq On : 4 Nov 2020 22:42
Operator : SY/AP
Sample : L4220-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

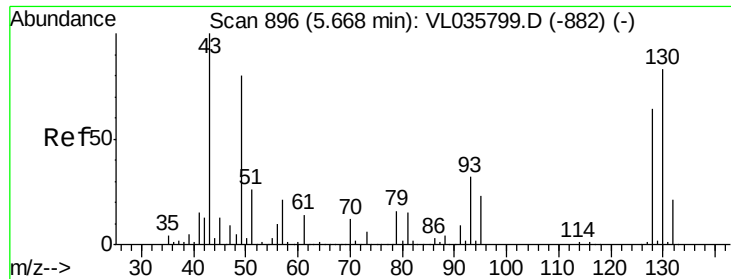
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Nov 05 05:08:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





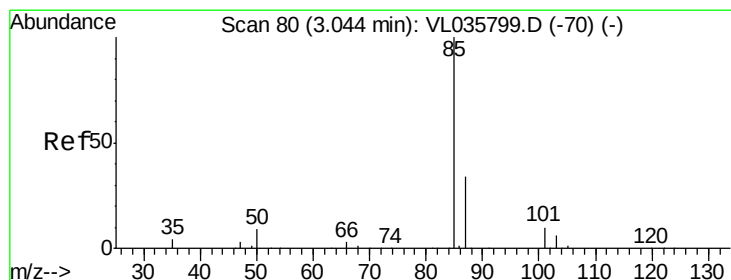
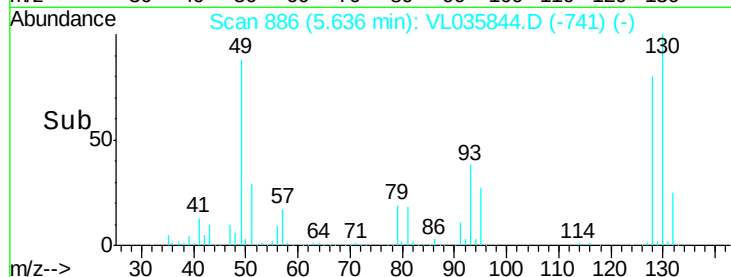
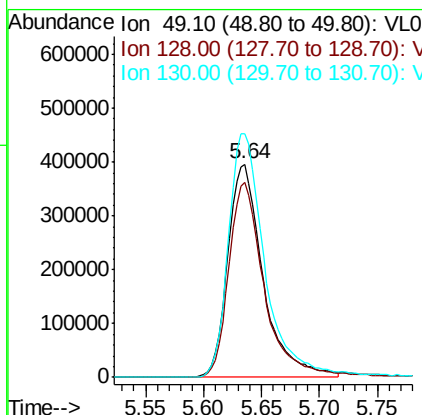
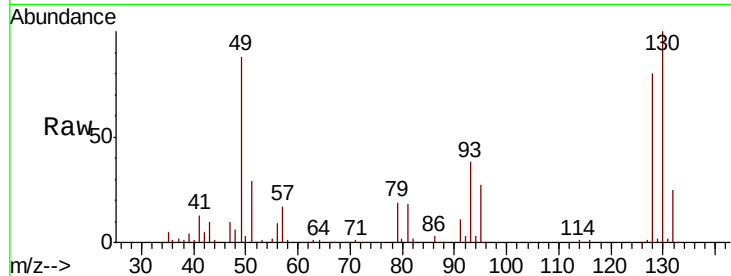
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 886
Delta R.T. -0.03 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	93.7	41.5	124.6
130	120.3	53.7	161.1

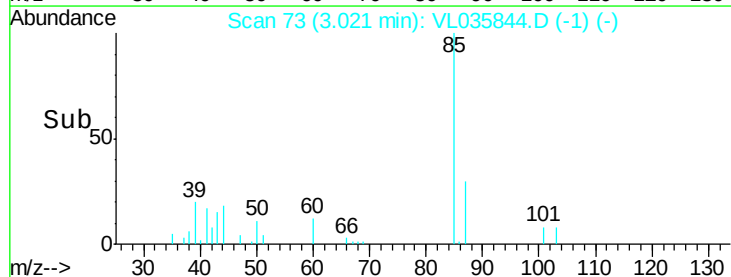
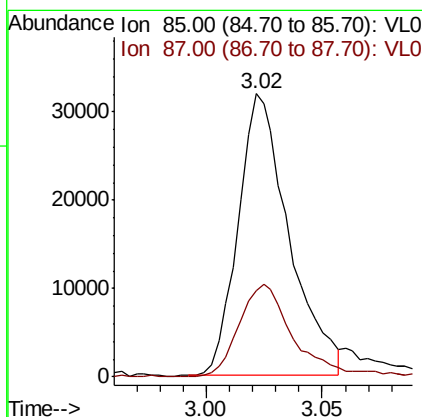
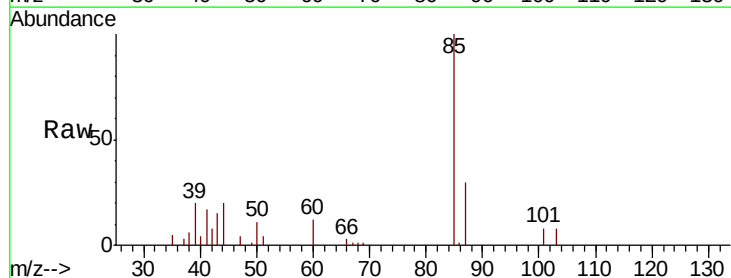
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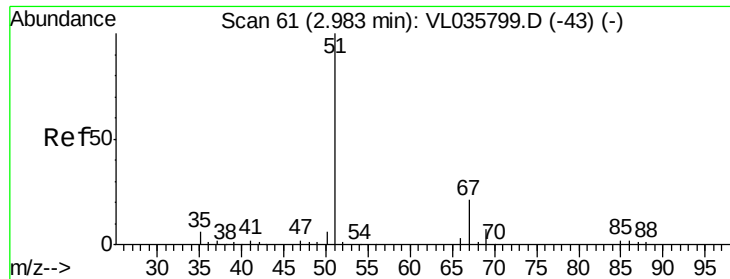
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#2
Dichlorodifluoromethane
Concen: 0.308 ppbv
RT: 3.02 min Scan# 73
Delta R.T. -0.02 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.5	27.1	40.7





#3

Chlorodifluoromethane

Concen: 0.487 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035844.D

Acq: 4 Nov 2020 22:42

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 51 Resp: 48942

Ion Ratio Lower Upper

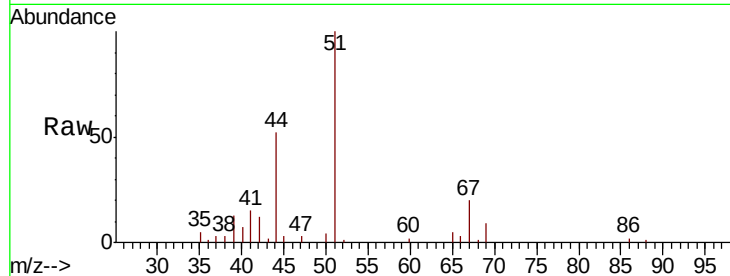
51 100

67 15.6 17.0 25.4#

Manual Integrations
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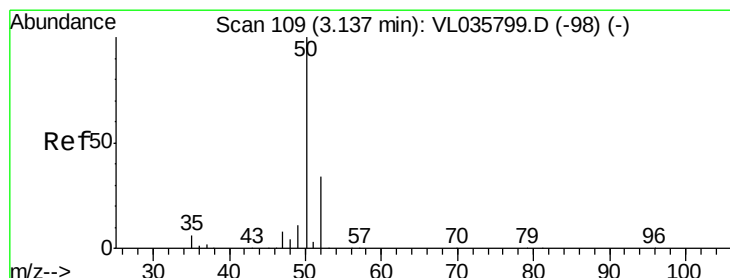
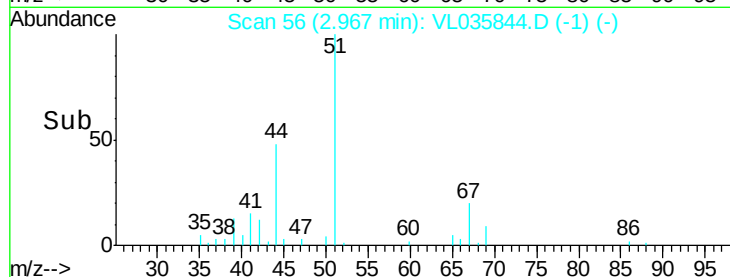
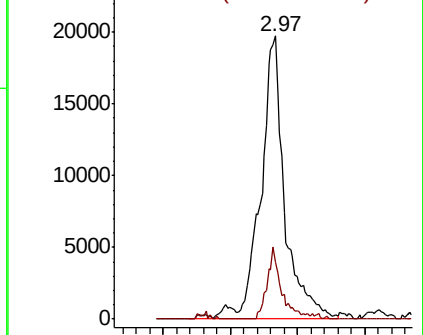
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.493 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL035844.D

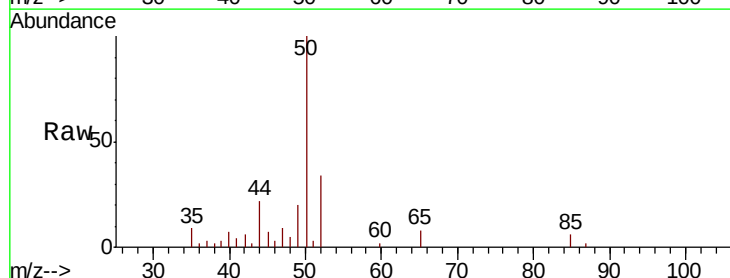
Acq: 4 Nov 2020 22:42

Tgt Ion: 50 Resp: 24027

Ion Ratio Lower Upper

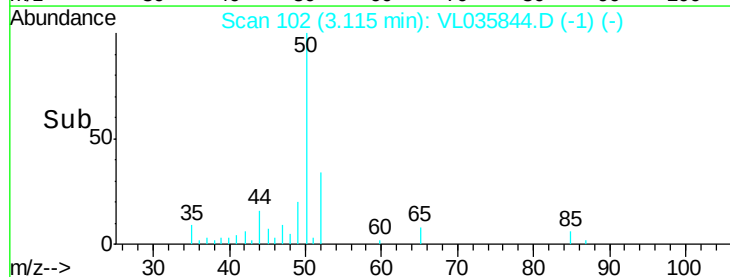
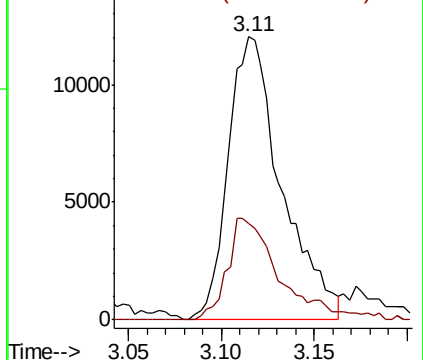
50 100

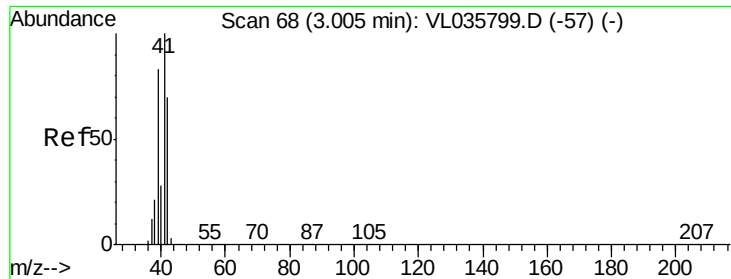
52 34.1 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.782 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035844.D

Acq: 4 Nov 2020 22:42

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 41 Resp: 65486

Ion Ratio Lower Upper

41 100

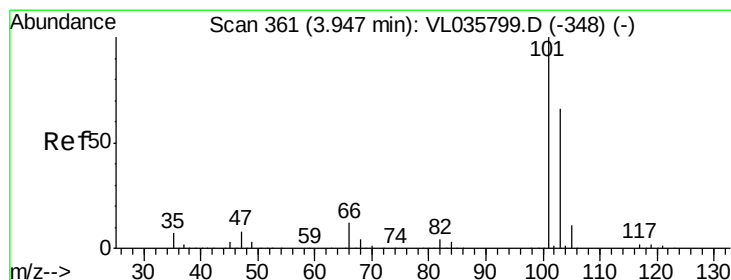
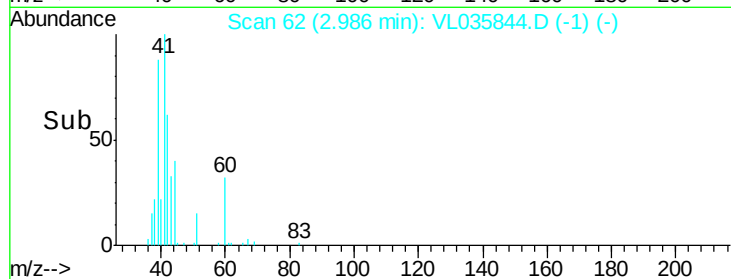
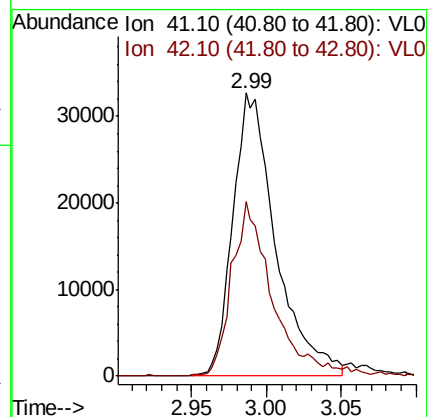
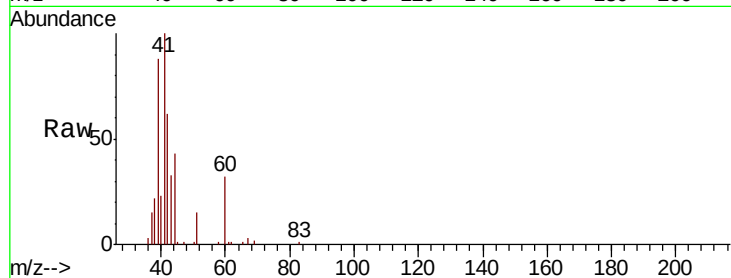
42 59.1 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.249 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.03 min

Lab File: VL035844.D

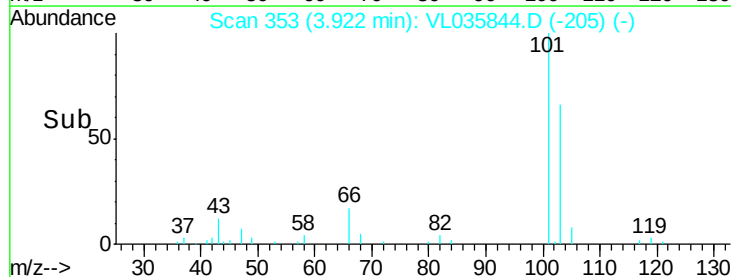
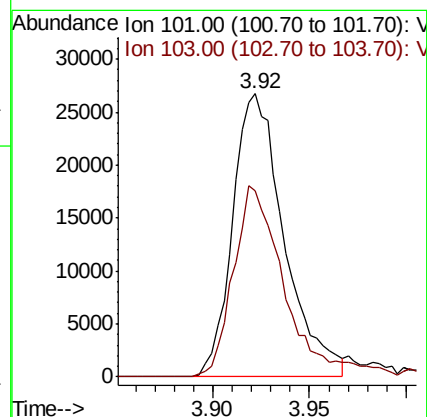
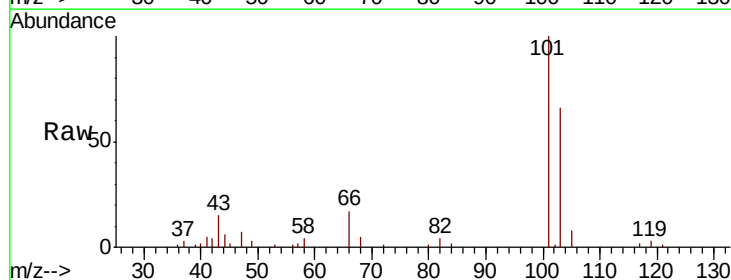
Acq: 4 Nov 2020 22:42

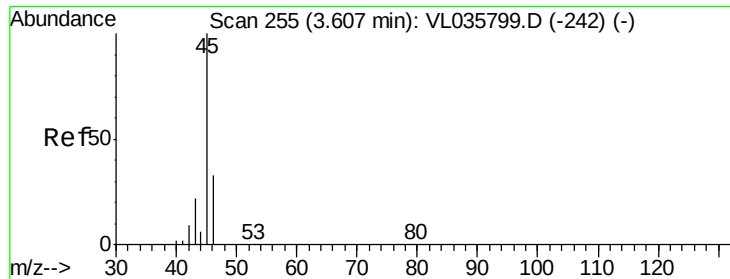
Tgt Ion: 101 Resp: 49384

Ion Ratio Lower Upper

101 100

103 65.9 53.0 79.4





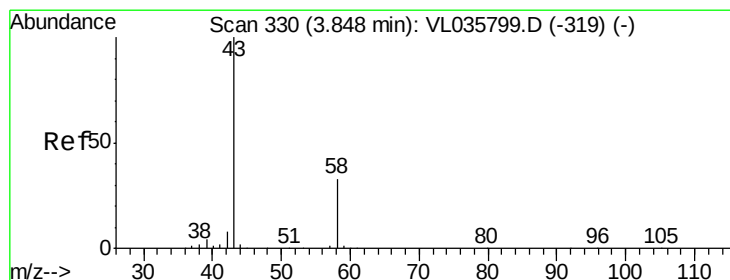
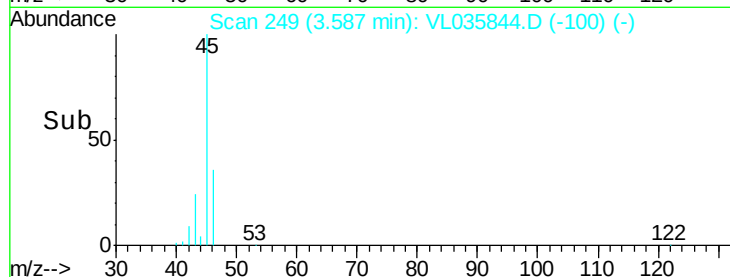
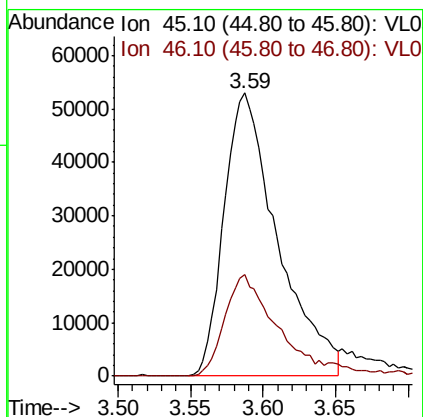
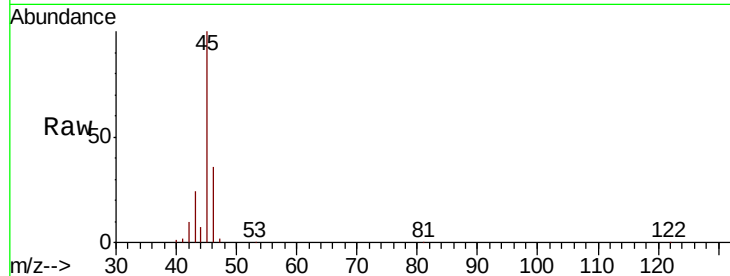
#13
Ethanol
Concen: 17.051 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	45	46	Ratio	Lower	Upper
135941	100	37.4		16.1	64.5

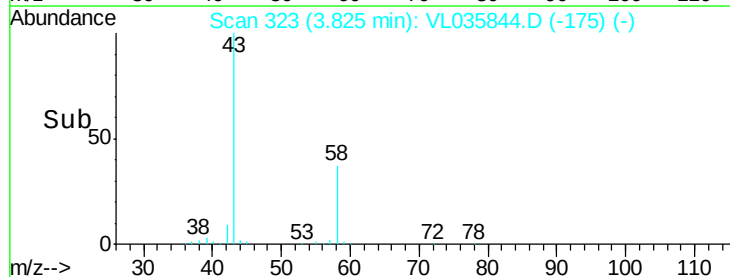
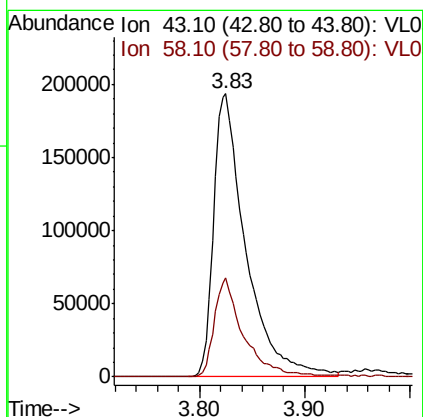
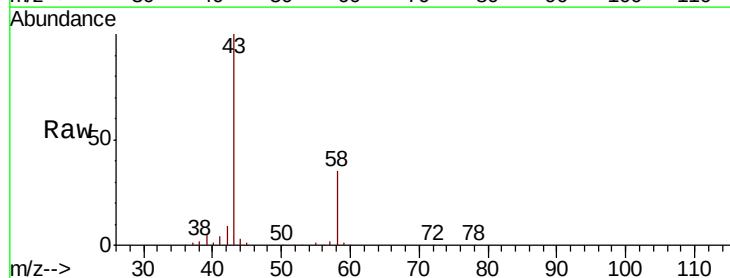
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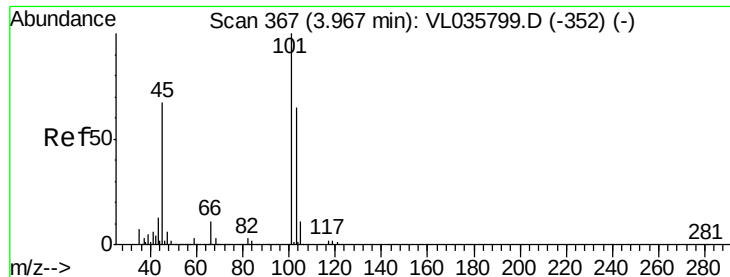
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#15
Acetone
Concen: 4.565 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.02 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Tgt Ion	43	58	Ratio	Lower	Upper
409165	100	32.0		27.5	41.3





#19

Isopropyl Alcohol

Concen: 0.477 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL035844.D

Acq: 4 Nov 2020 22:42

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 45 Resp: 26290

Ion Ratio Lower Upper

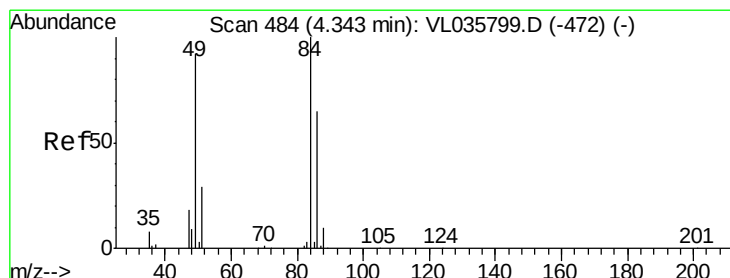
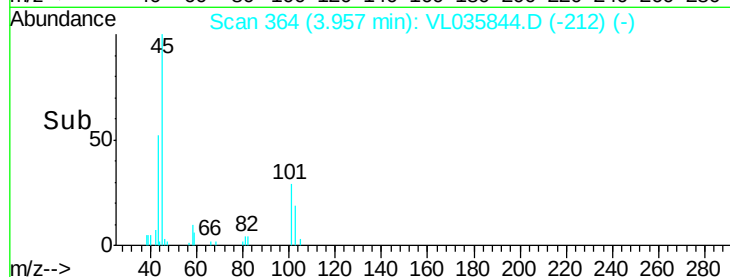
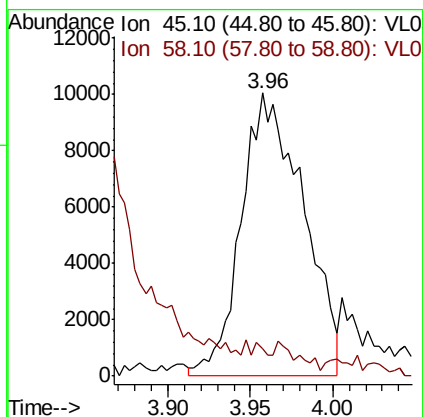
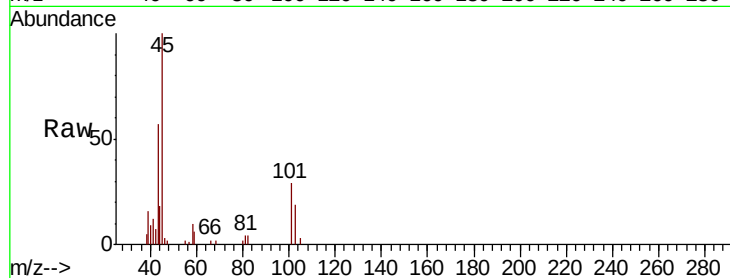
45 100

58 0.0 2.6 3.8#

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#20

Methylene Chloride

Concen: 18.318 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.03 min

Lab File: VL035844.D

Acq: 4 Nov 2020 22:42

Tgt Ion: 84 Resp: 1155926

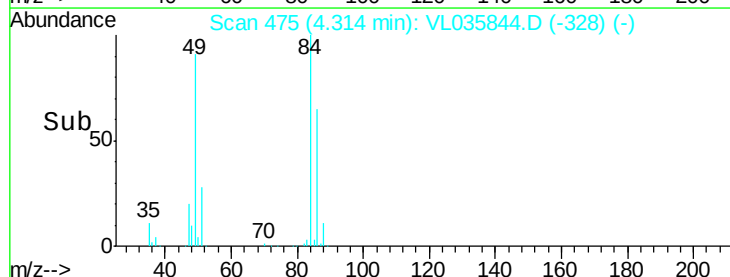
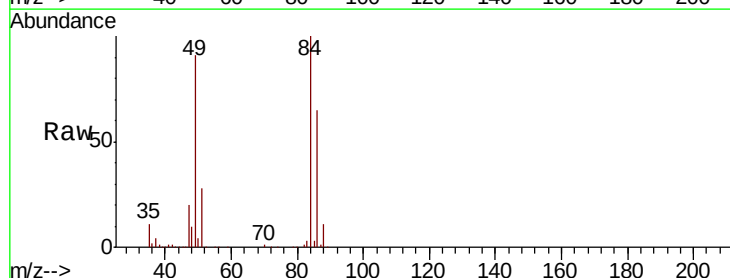
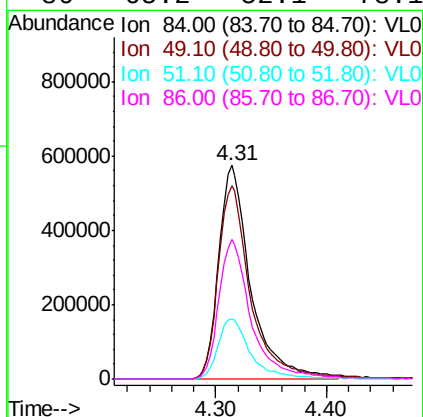
Ion Ratio Lower Upper

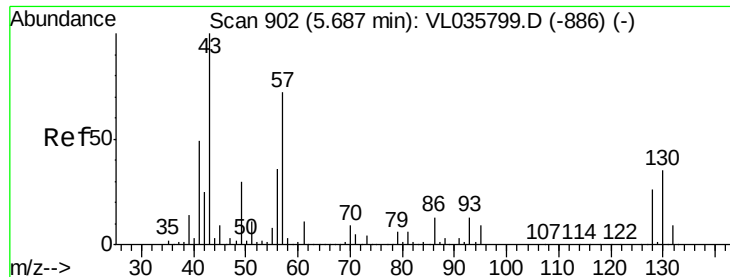
84 100

49 90.5 73.8 110.8

51 28.4 23.0 34.4

86 65.2 52.1 78.1





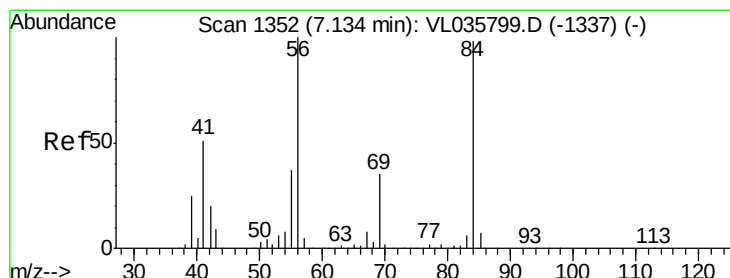
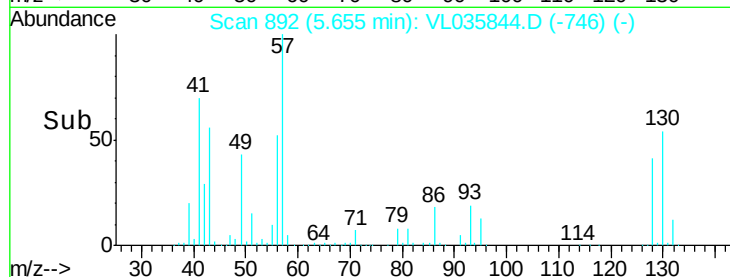
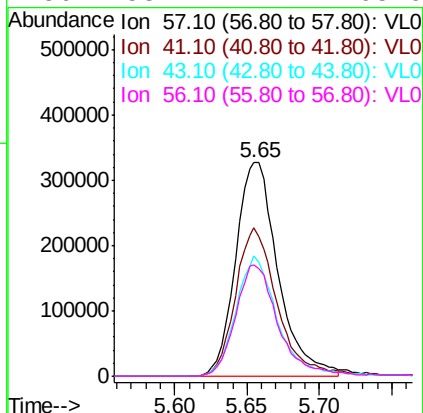
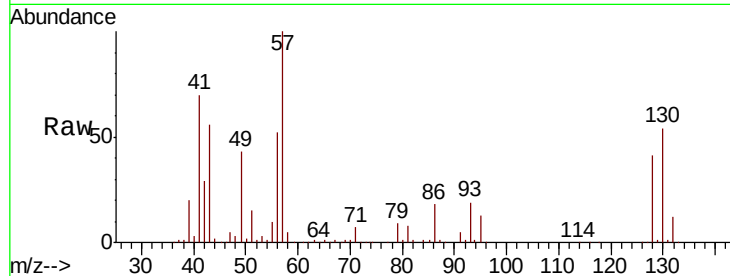
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Hexane
Concen: 6.816 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	69.9	58.9	88.3
43	55.7	150.2	225.2#
56	53.2	42.4	63.6

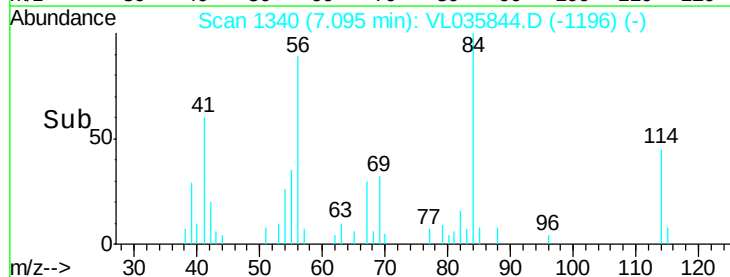
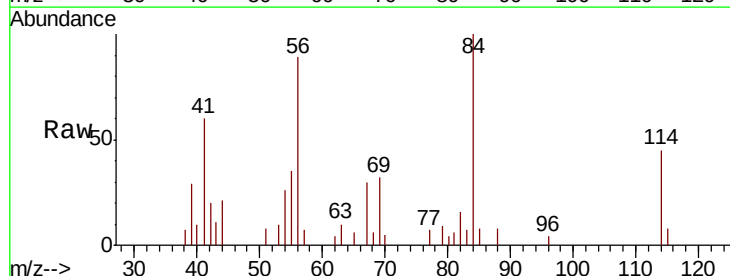
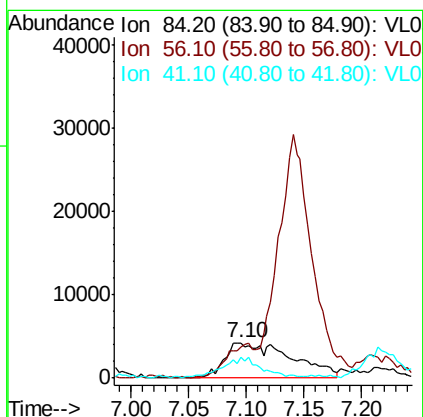
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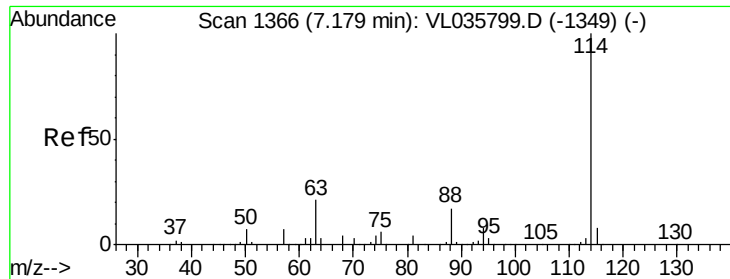
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#30
Cyclohexane
Concen: 0.162 ppbv m
RT: 7.10 min Scan# 1340
Delta R.T. -0.04 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	32.7	42.1	63.1#





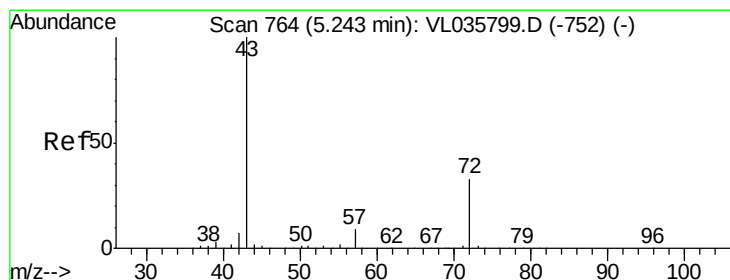
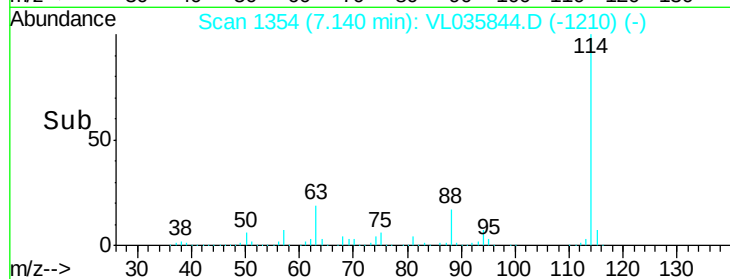
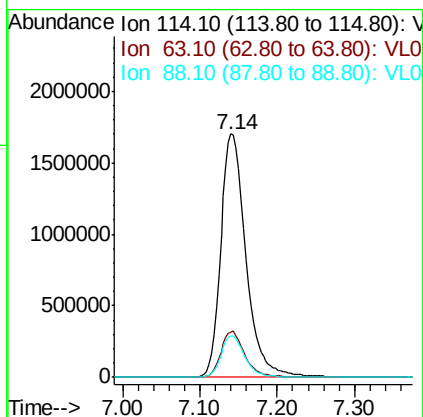
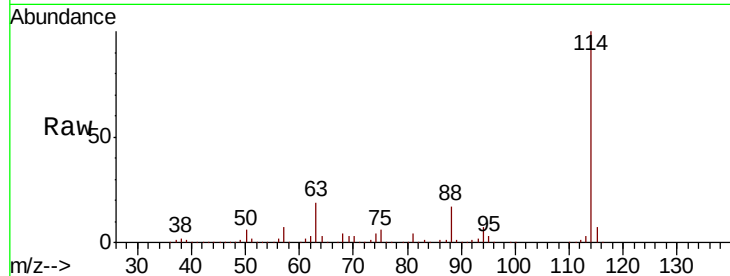
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.04 min
 Lab File: VL035844.D
 Acq: 4 Nov 2020 22:42

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	16.1	24.1
88	16.4	13.7	20.5

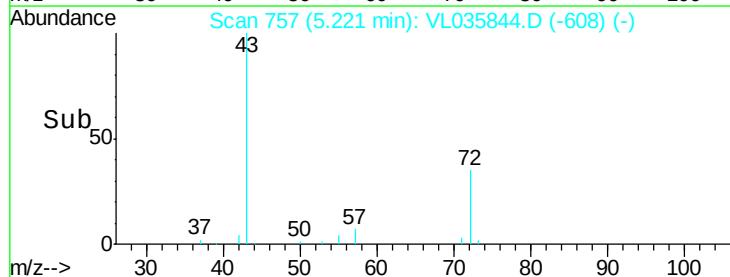
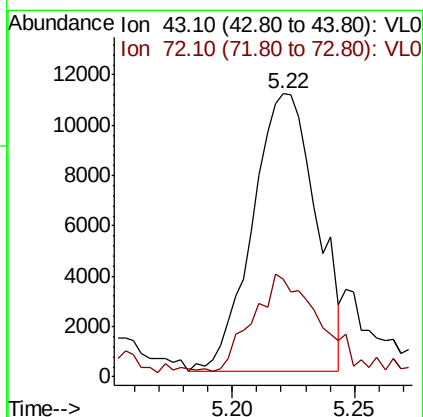
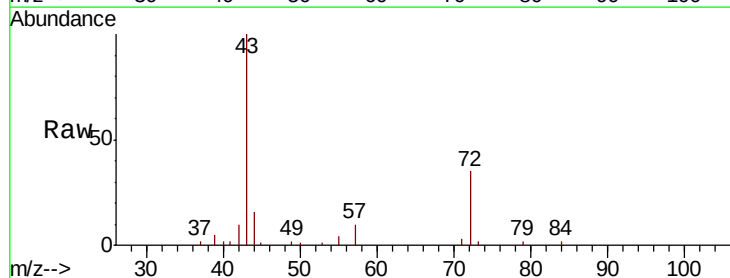
Manual Integrations
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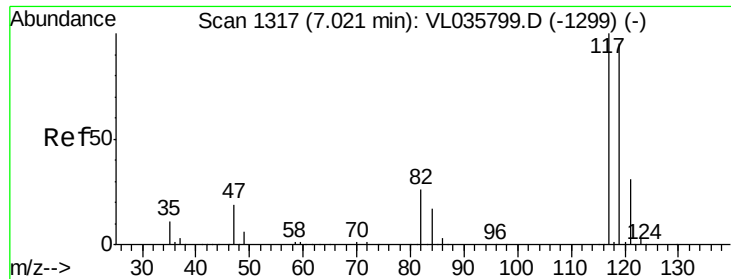
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#34
 2-Butanone
 Concen: 0.159 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.02 min
 Lab File: VL035844.D
 Acq: 4 Nov 2020 22:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	44.3	26.5	39.7#





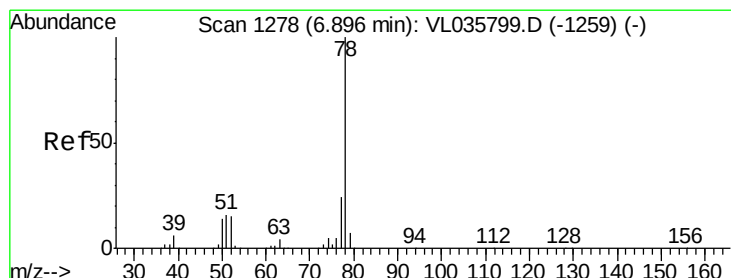
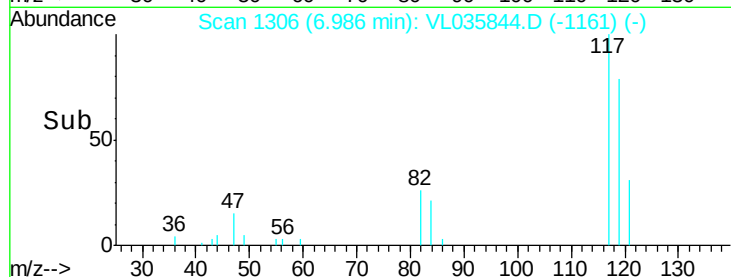
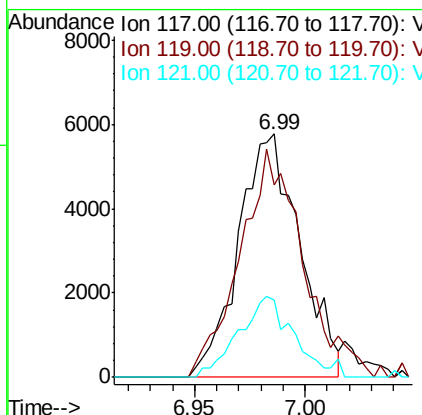
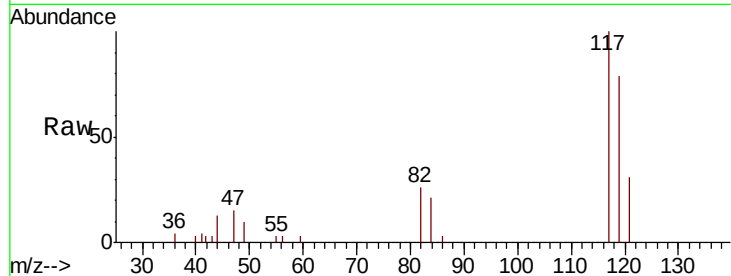
#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 6.99 min Scan# 1306
Delta R.T. -0.04 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	79.1	75.6	113.4
121	31.5	25.1	37.7

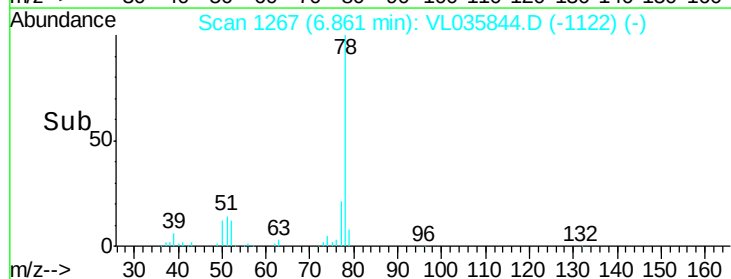
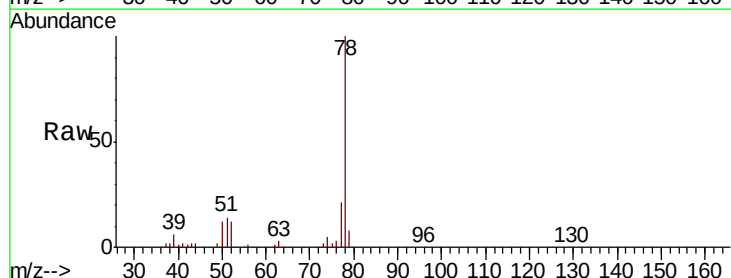
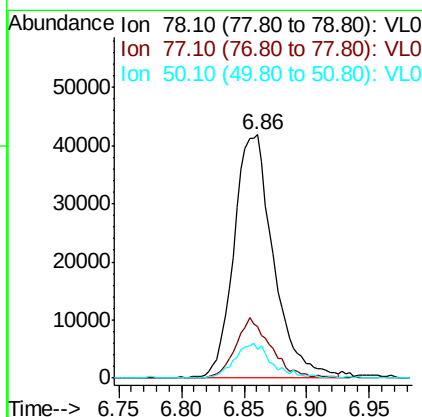
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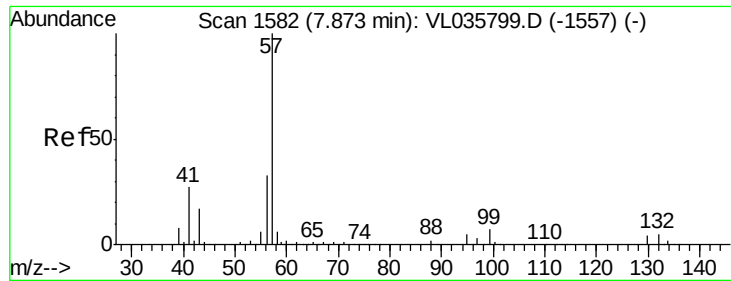
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#36
Benzene
Concen: 0.320 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	19.3	28.9
50	11.9	11.4	17.2





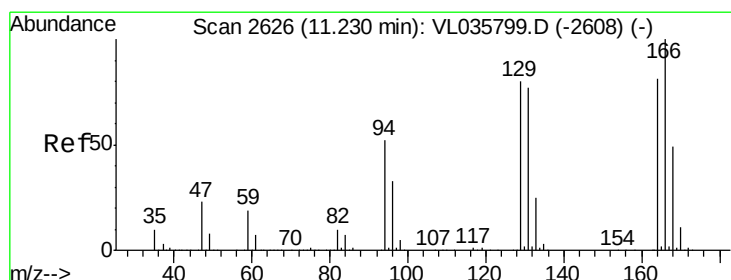
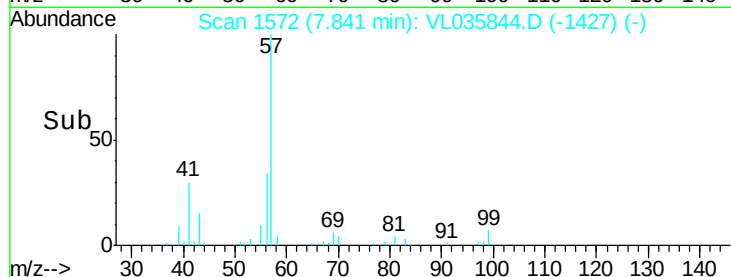
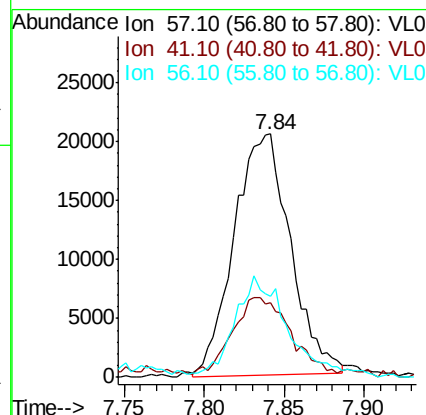
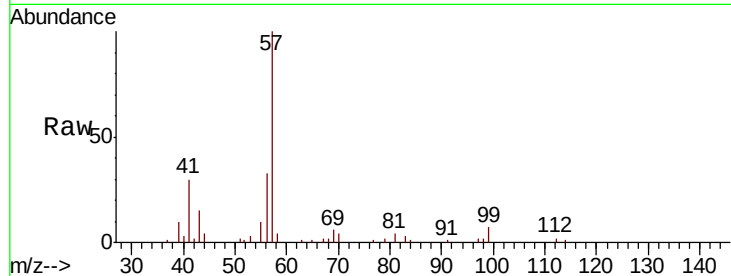
#44
 2,2,4-Trimethylpentane
 Concen: 0.131 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.03 min
 Lab File: VL035844.D
 Acq: 4 Nov 2020 22:42

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	40.8	21.0	31.4#
56	39.9	25.4	38.0#

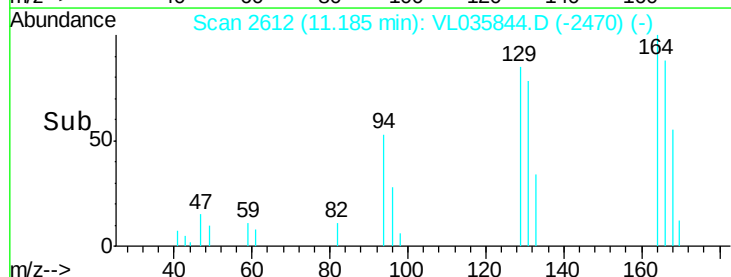
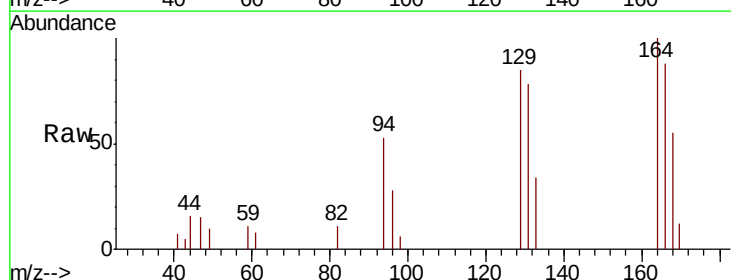
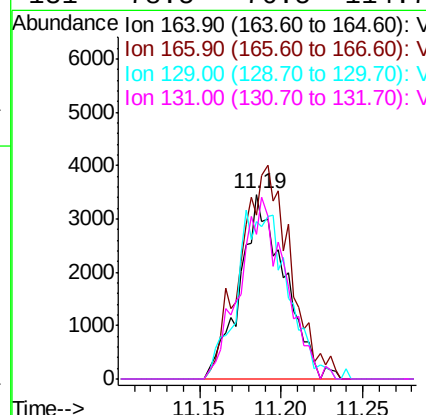
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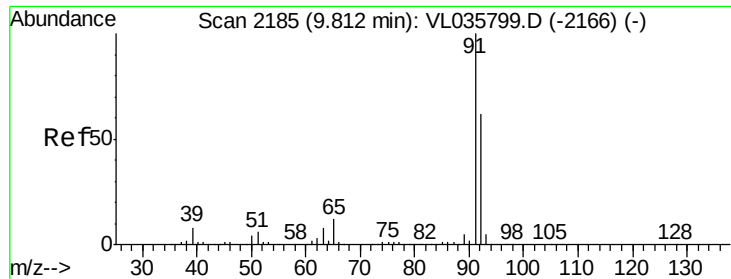
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#52
 Tetrachloroethene
 Concen: 0.049 ppbv m
 RT: 11.19 min Scan# 2612
 Delta R.T. -0.05 min
 Lab File: VL035844.D
 Acq: 4 Nov 2020 22:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	88.4	99.3	148.9#
129	85.4	79.3	118.9
131	78.5	76.5	114.7





#53

Toluene

Concen: 0.613 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.04 min

Lab File: VL035844.D

Acq: 4 Nov 2020 22:42

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 211964

Ion Ratio Lower Upper

91 100

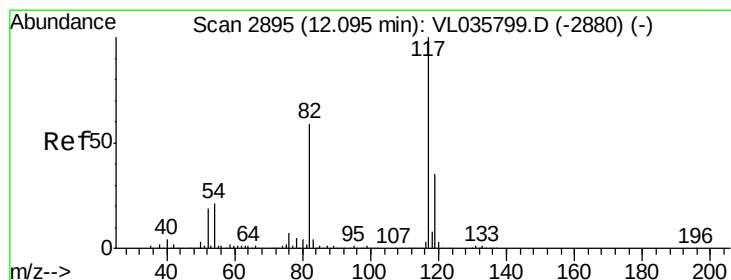
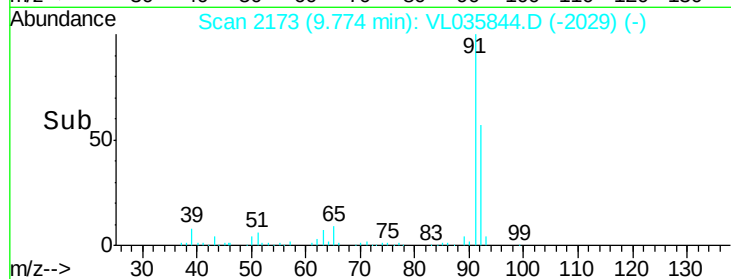
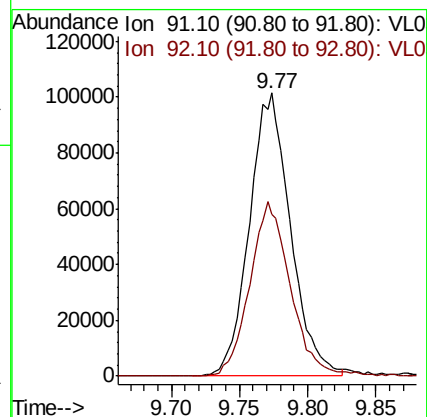
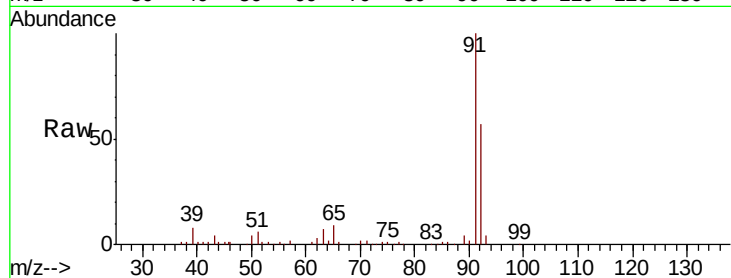
92 61.5 49.8 74.6

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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: VL035844.D

Acq: 4 Nov 2020 22:42

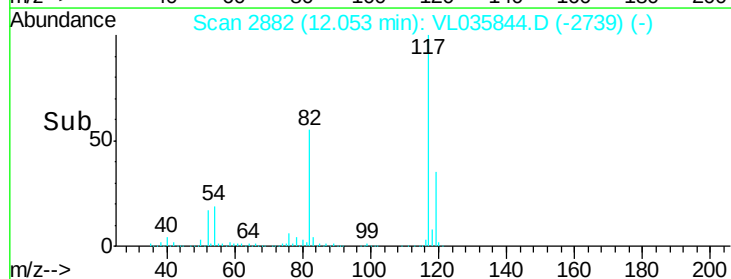
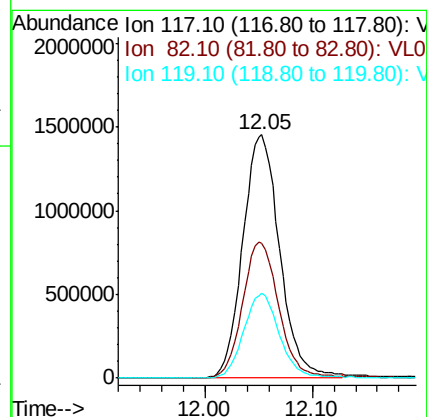
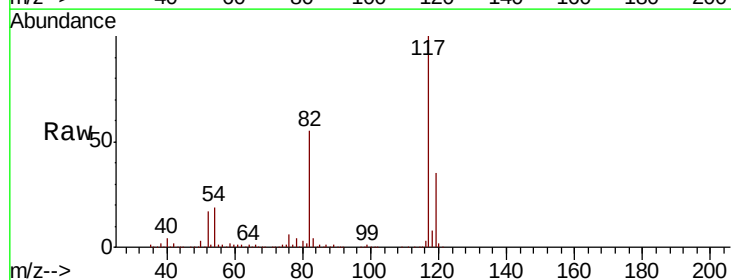
Tgt Ion: 117 Resp: 3465233

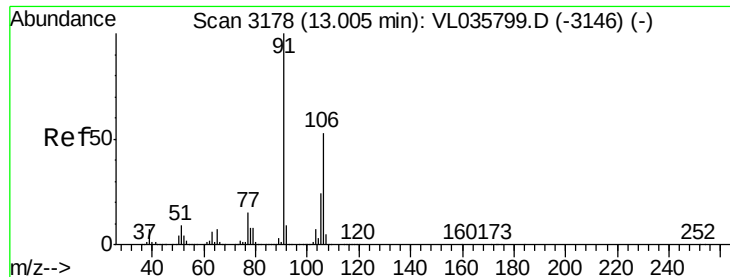
Ion Ratio Lower Upper

117 100

82 56.4 50.6 76.0

119 34.3 52.6 78.8#





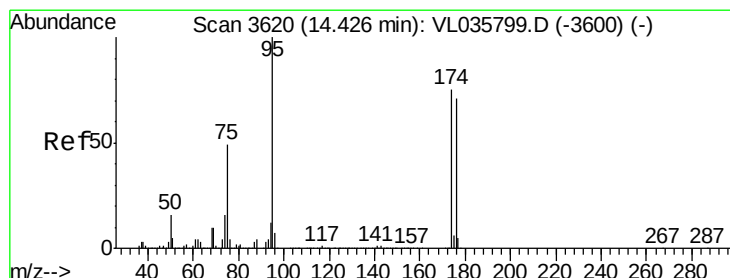
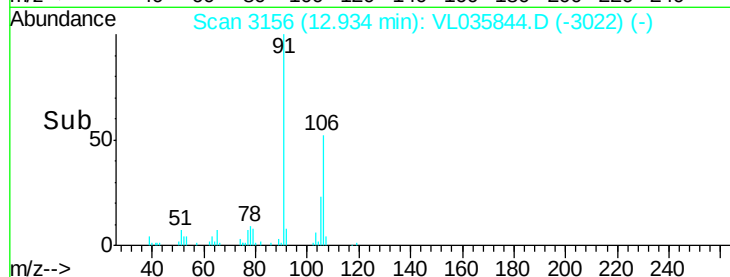
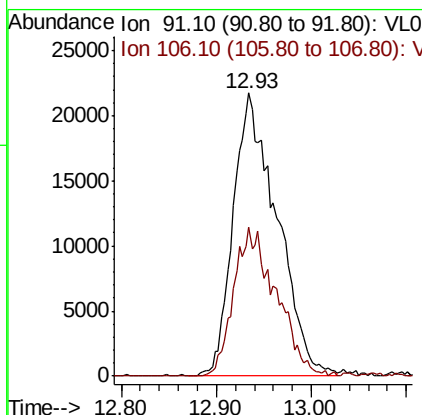
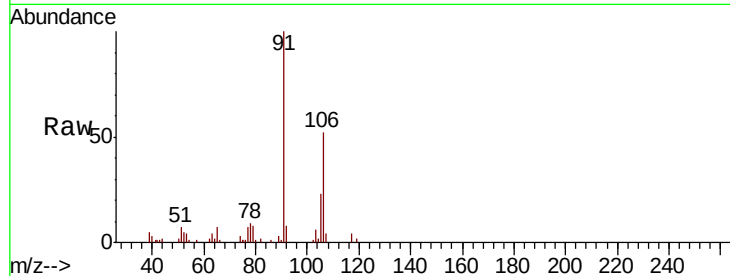
#59
m/p-Xylene
Concen: 0.195 ppbv m
RT: 12.93 min Scan# 3156
Delta R.T. -0.07 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 91 Resp: 69459
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

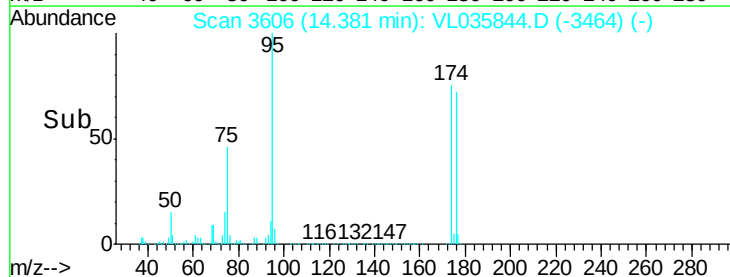
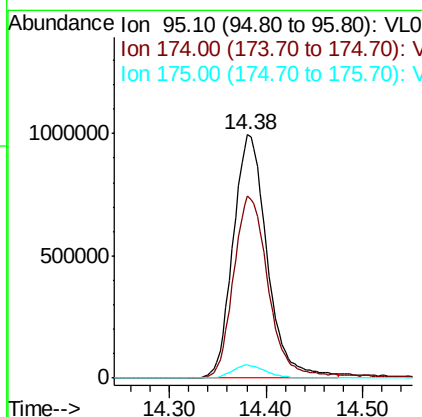
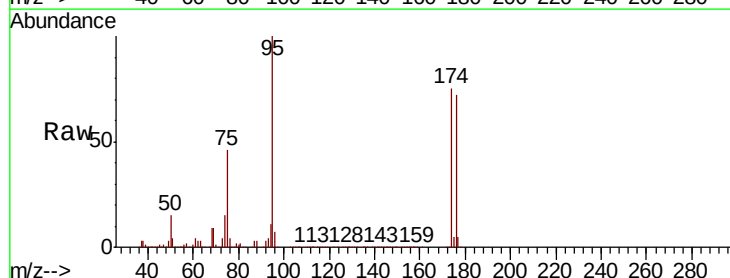
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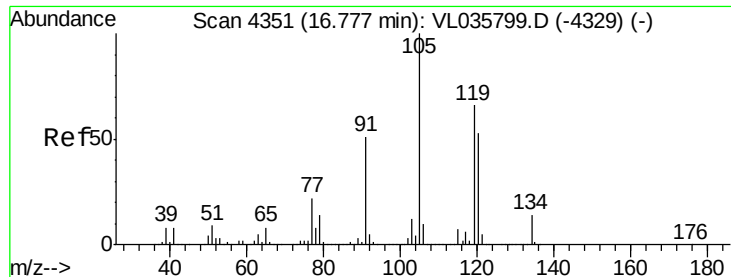
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.883 ppbv
RT: 14.38 min Scan# 3606
Delta R.T. -0.05 min
Lab File: VL035844.D
Acq: 4 Nov 2020 22:42

Tgt Ion: 95 Resp: 2433279
Ion Ratio Lower Upper
95 100
174 77.0 59.8 89.6
175 5.5 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.05 min
 Lab File: VL035844.D
 Acq: 4 Nov 2020 22:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion:	105	Resp:	43266
Ion Ratio	Lower	Upper	
105	100		
120	43.2	42.0	63.0
91	7.8	41.0	61.6#
77	12.9	17.3	25.9#

Manual Integrations
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