

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034798.D
 Acq On : 5 Mar 2020 16:31
 Operator : SY/AP
 Sample : L1704-07DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4DUP

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:18:51 AM

Quant Time: Mar 06 05:29:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	977707	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2029574	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	2009967	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1742607	10.40	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	95828	0.601	ppbv	92
3) Chlorodifluoromethane	2.95	51	48768m	0.438	ppbv	
4) Chloromethane	3.10	50	32277	0.538	ppbv	98
9) Propene	2.99	41	57874m	1.320	ppbv	
10) Heptane	8.13	43	11097m	0.100	ppbv	
11) Trichlorofluoromethane	3.93	101	44984	0.315	ppbv	89
13) Ethanol	3.57	45	190384	12.673	ppbv	97
15) Acetone	3.82	43	675896	5.773	ppbv	98
17) tert-Butyl alcohol	4.29	59	41599m	0.451	ppbv	
19) Isopropyl Alcohol	3.95	45	165454	2.359	ppbv #	91
20) Methylene Chloride	4.32	84	110919	2.654	ppbv	90
26) Hexane	5.67	57	158194	1.790	ppbv #	44
34) 2-Butanone	5.24	43	39423	0.299	ppbv	93
35) Carbon Tetrachloride	7.02	117	11103m	0.073	ppbv	
36) Benzene	6.89	78	43340m	0.250	ppbv	
53) Toluene	9.82	91	171660	0.935	ppbv	98
58) Ethyl Benzene	12.74	91	40584m	0.164	ppbv	
59) m/p-Xylene	12.99	91	127675m	0.595	ppbv	
60) o-Xylene	13.72	91	44910m	0.207	ppbv	

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

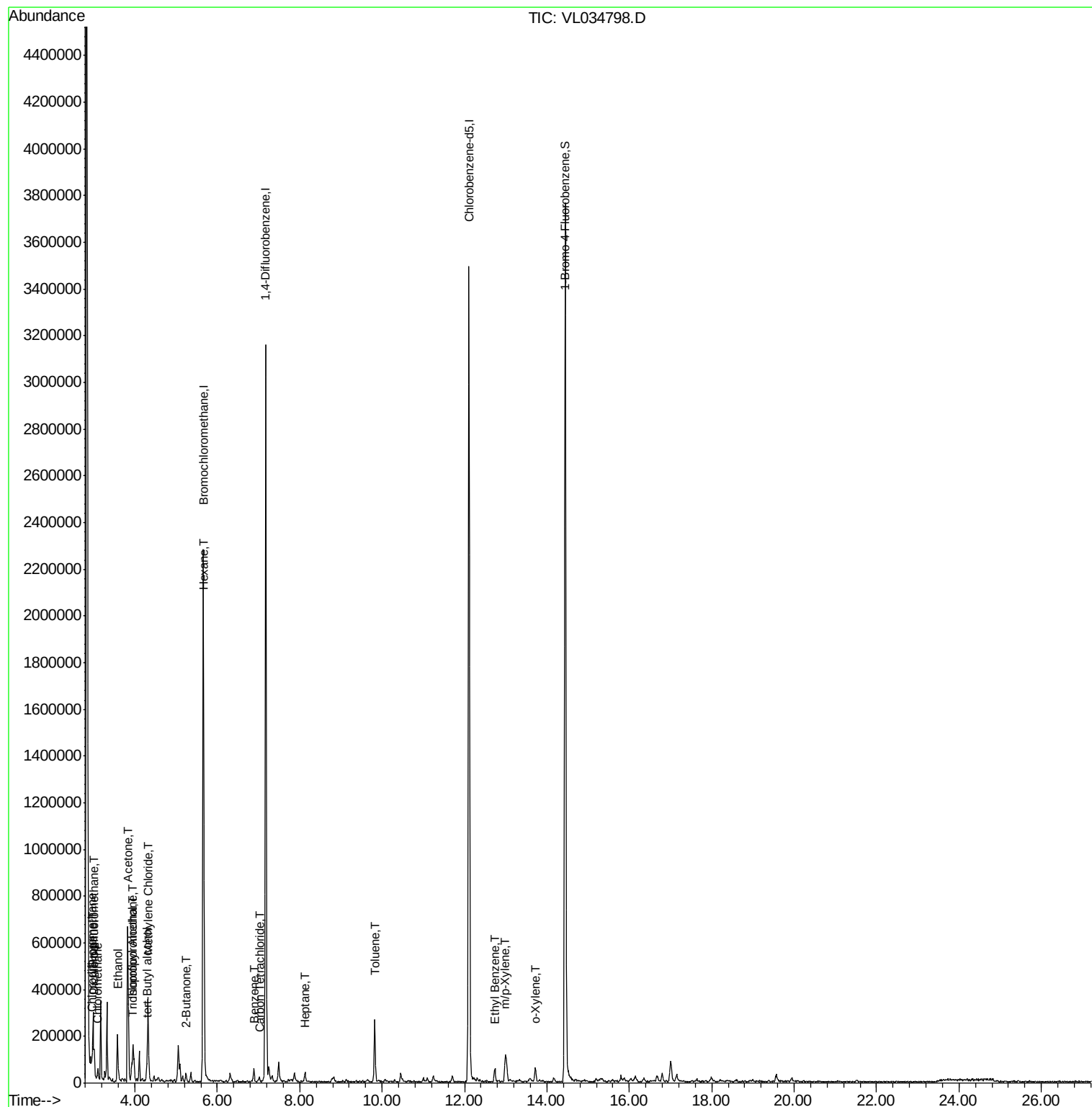
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030520\
Data File : VL034798.D
Acq On : 5 Mar 2020 16:31
Operator : SY/AP
Sample : L1704-07DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

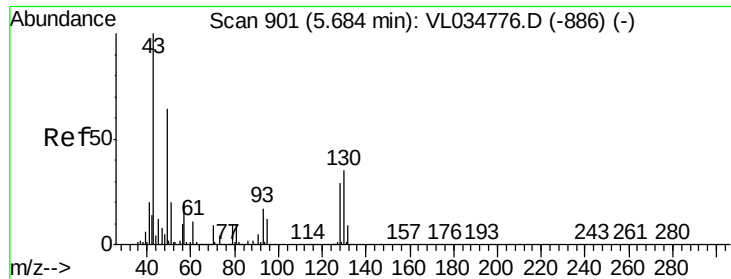
Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

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Quant Time: Mar 06 05:29:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

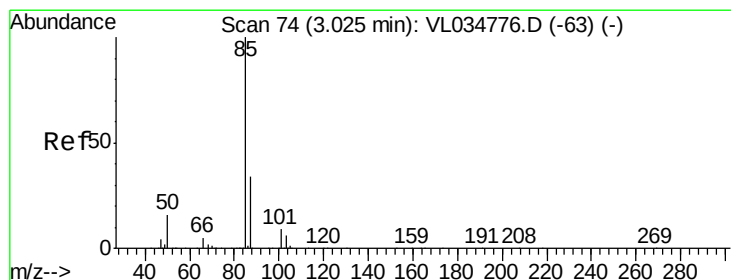
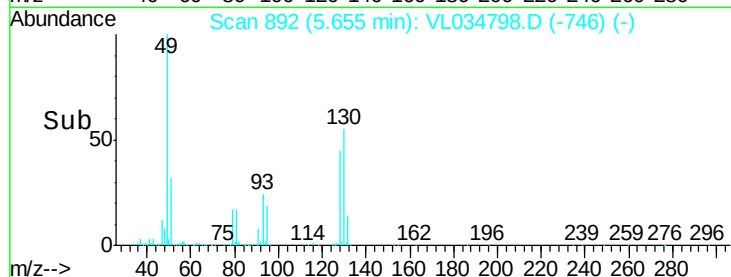
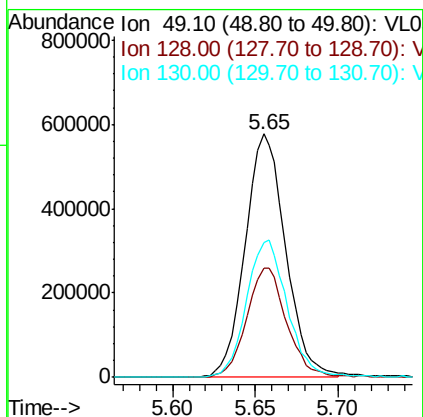
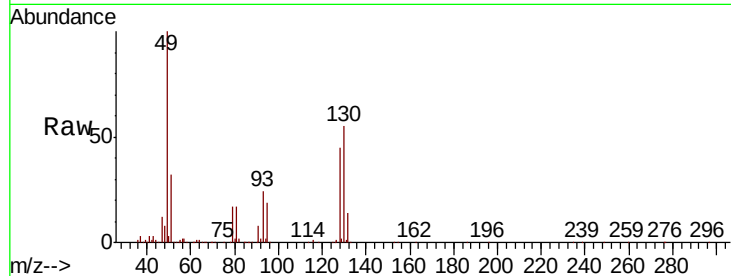
ClientSampleId :

A-1-4DUP

Tot Ion:	49	Resp:	977707
Ion	Ratio	Lower	Upper
49	100		
128	44.9	21.6	64.6
130	57.6	27.4	82.2

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#2

Dichlorodifluoromethane

Concen: 0.601 ppbv

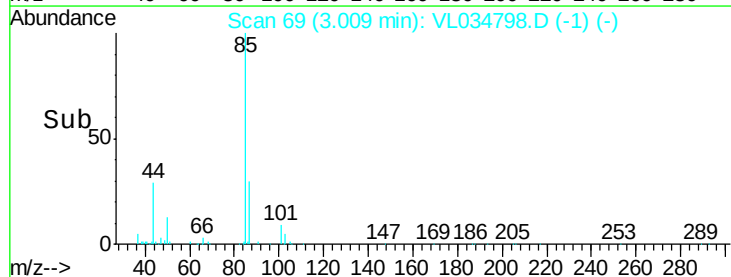
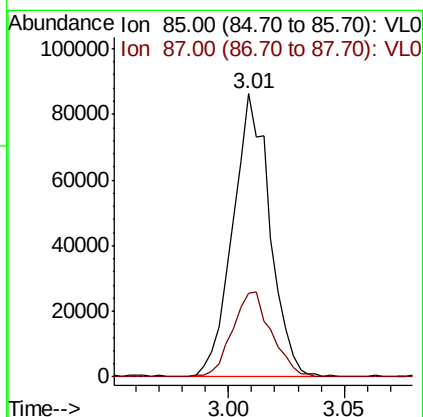
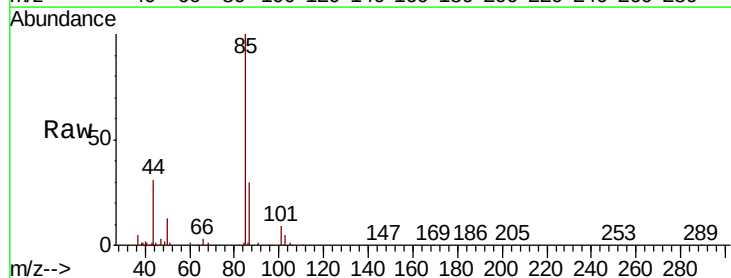
RT: 3.01 min Scan# 69

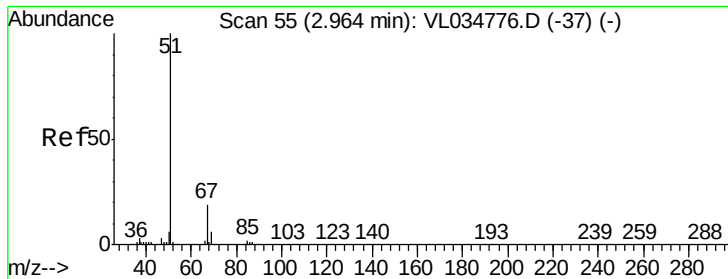
Delta R.T. -0.02 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Tgt Ion:	85	Resp:	95828
Ion	Ratio	Lower	Upper
85	100		
87	29.6	27.2	40.8





#3

Chlorodifluoromethane

Concen: 0.438 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP

Tot Ion: 51 Resp: 48768

Ion Ratio Lower Upper

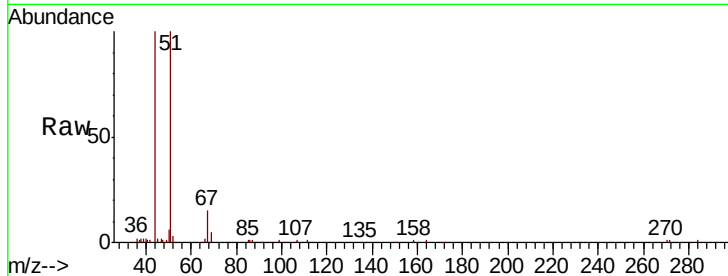
51 100

67 20.0 15.3 22.9

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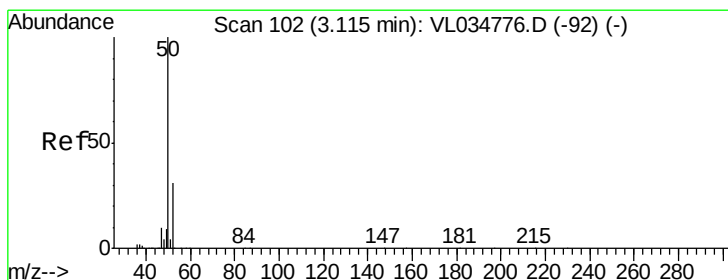
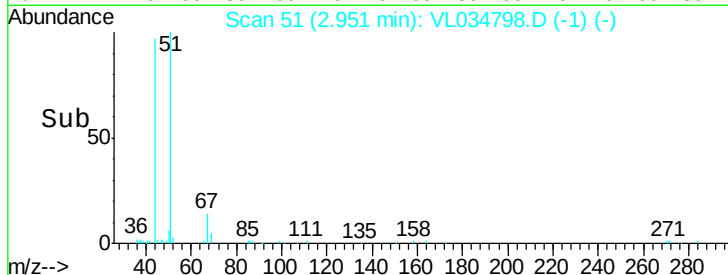
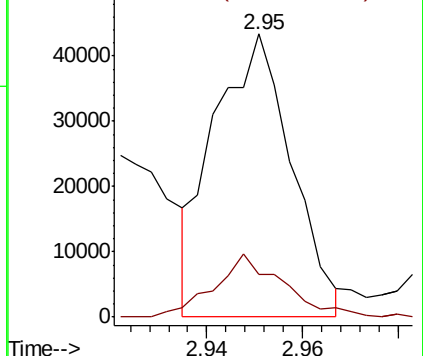
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.02 min

Lab File: VL034798.D

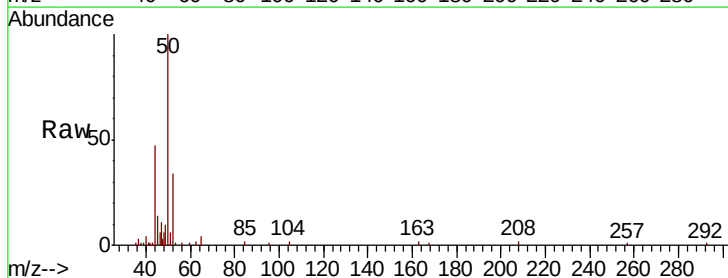
Acq: 5 Mar 2020 16:31

Tgt Ion: 50 Resp: 32277

Ion Ratio Lower Upper

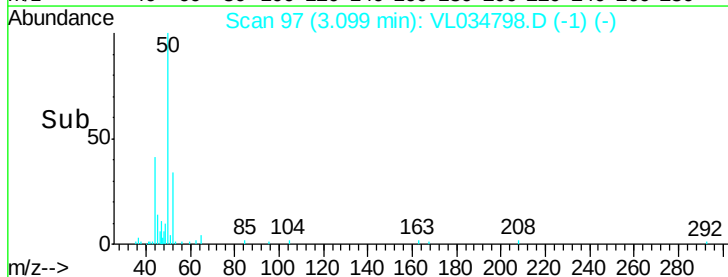
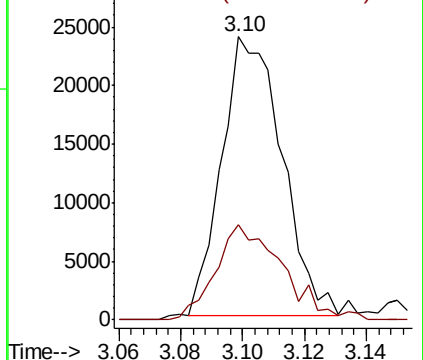
50 100

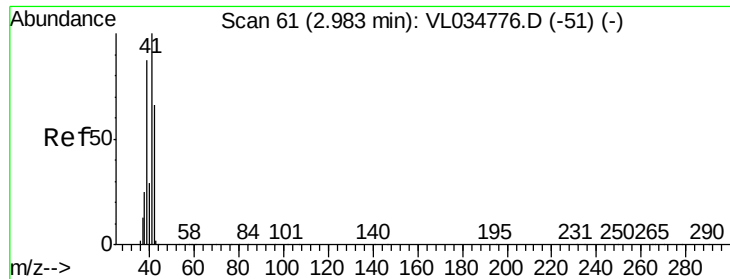
52 32.4 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.320 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP

Tot Ion: 41 Resp: 57874

Ion Ratio Lower Upper

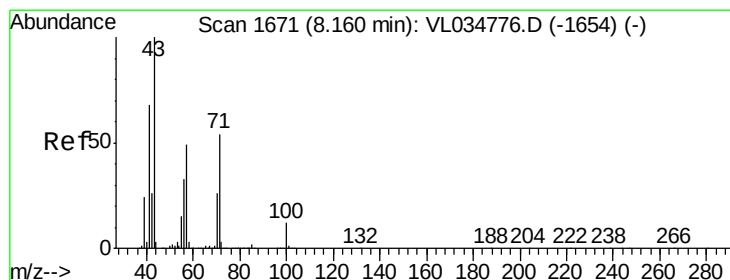
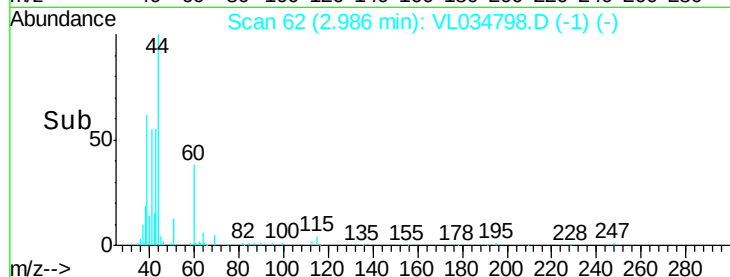
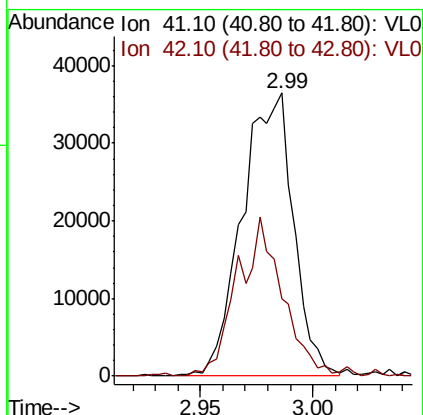
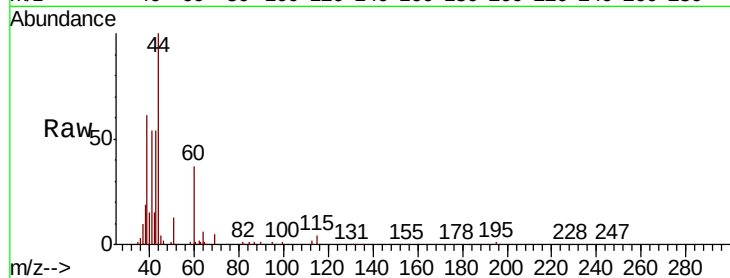
41 100

42 51.2 55.6 83.4#

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#10

Heptane

Concen: 0.100 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. -0.03 min

Lab File: VL034798.D

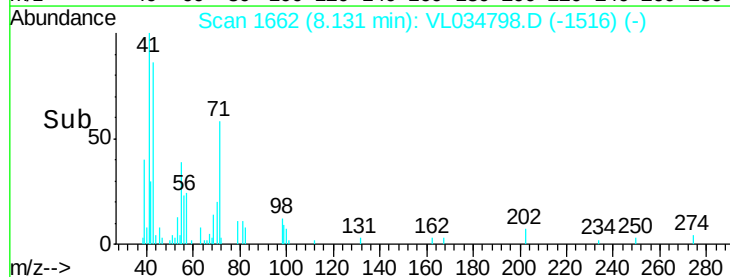
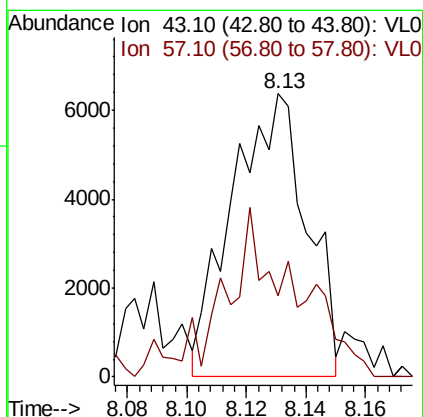
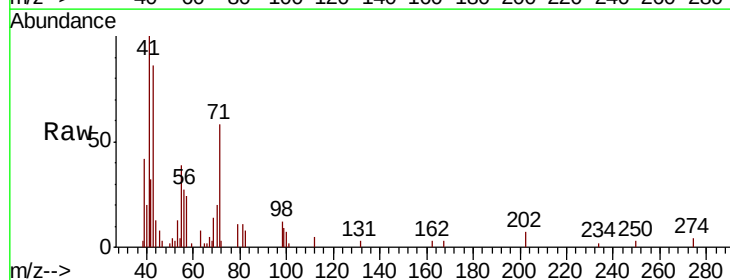
Acq: 5 Mar 2020 16:31

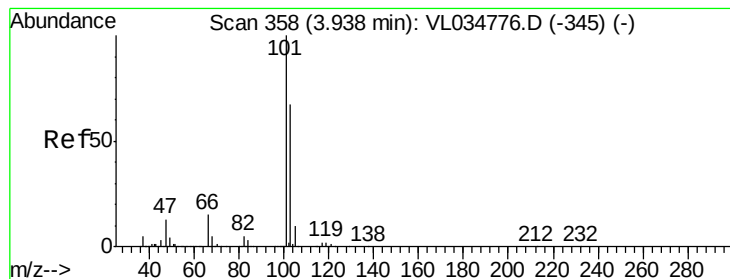
Tgt Ion: 43 Resp: 11097

Ion Ratio Lower Upper

43 100

57 59.3 40.5 60.7





#11

Trichlorofluoromethane

Concen: 0.315 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.01 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP

Tot Ion:101 Resp: 44984

Ion Ratio Lower Upper

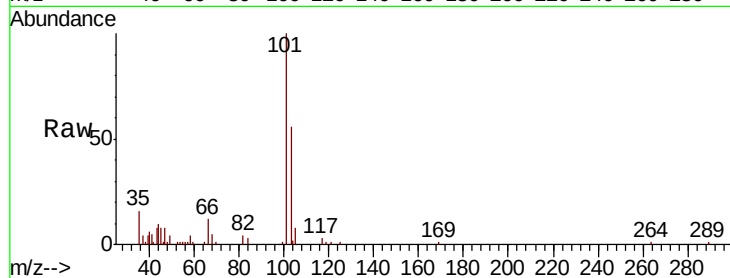
101 100

103 58.3 53.6 80.4

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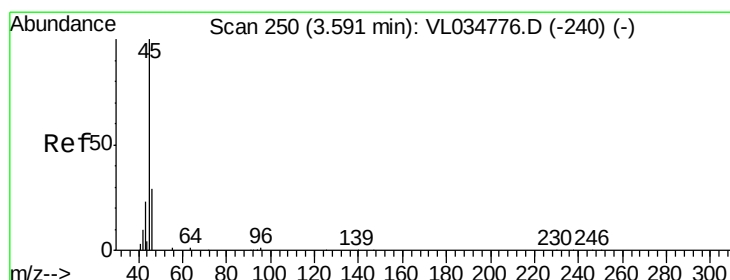
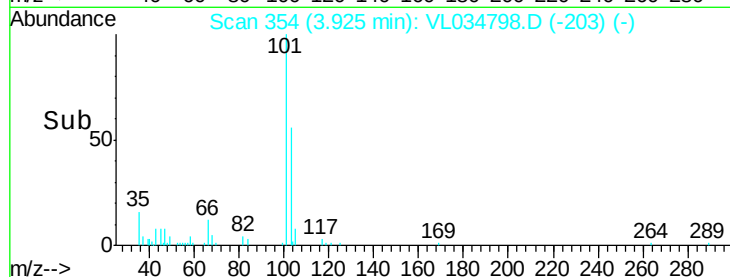
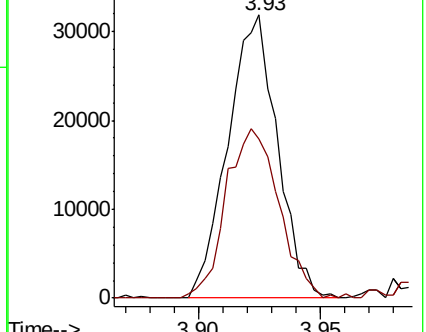
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 12.673 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.02 min

Lab File: VL034798.D

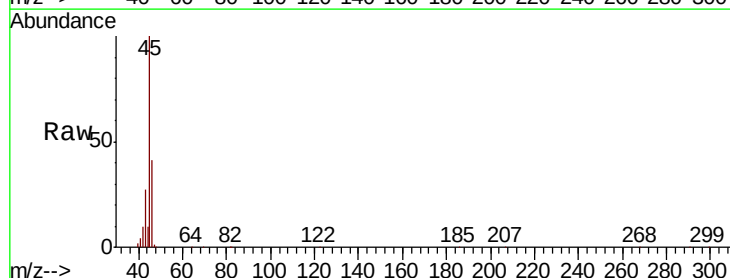
Acq: 5 Mar 2020 16:31

Tgt Ion: 45 Resp: 190384

Ion Ratio Lower Upper

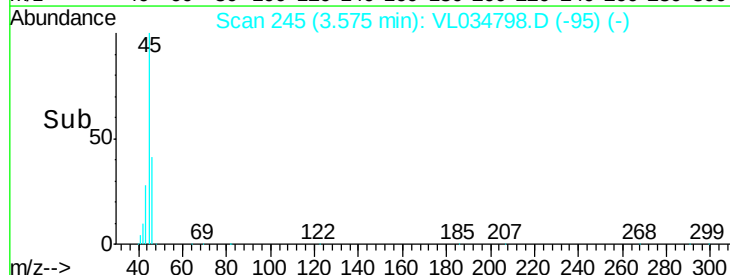
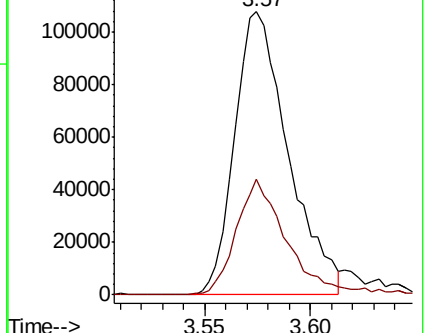
45 100

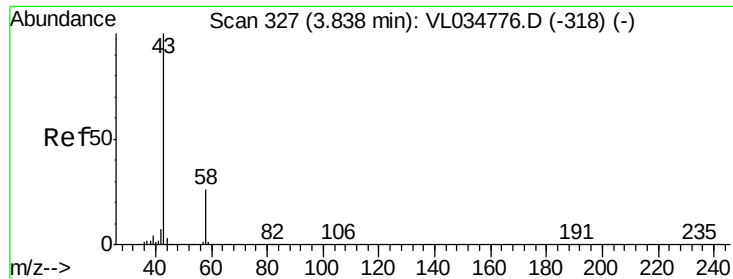
46 38.8 14.7 58.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.773 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.02 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP

Tot Ion: 43 Resp: 675896

Ion Ratio Lower Upper

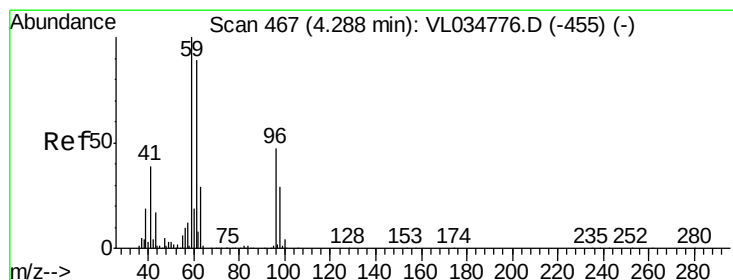
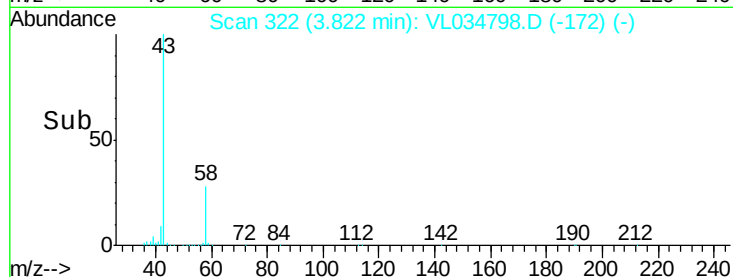
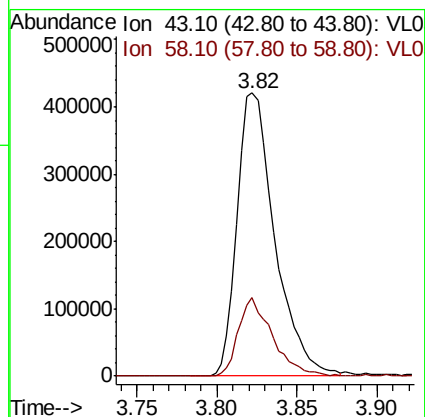
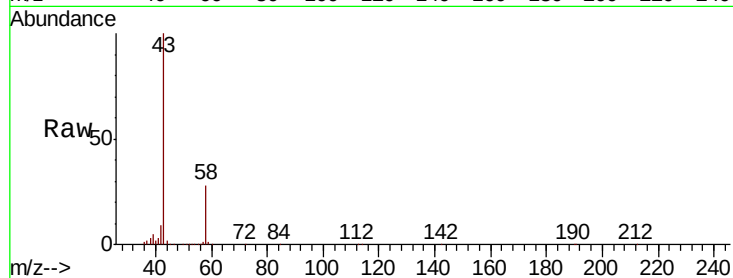
43 100

58 25.2 21.0 31.6

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#17

tert-Butyl alcohol

Concen: 0.451 ppbv m

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034798.D

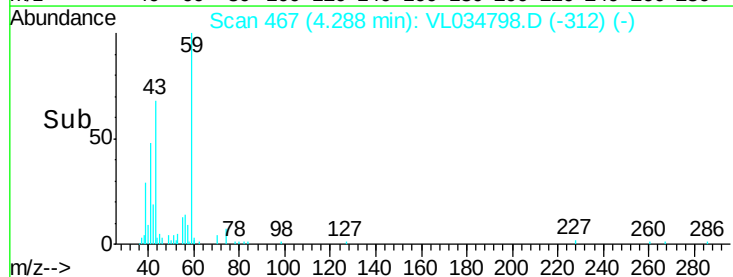
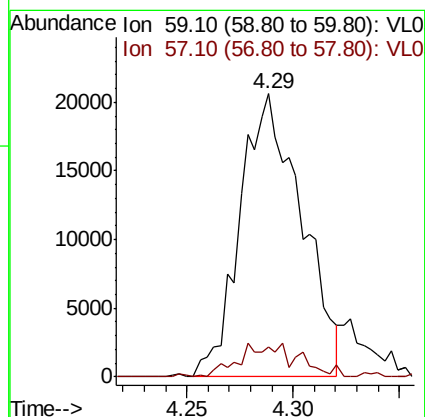
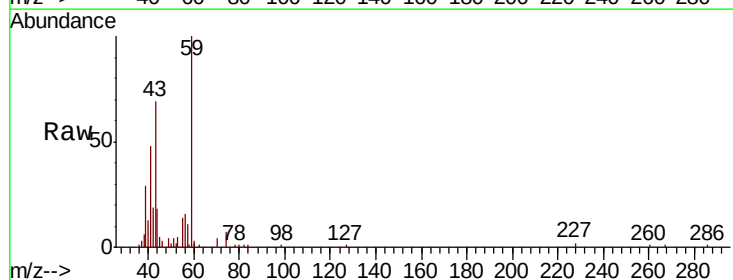
Acq: 5 Mar 2020 16:31

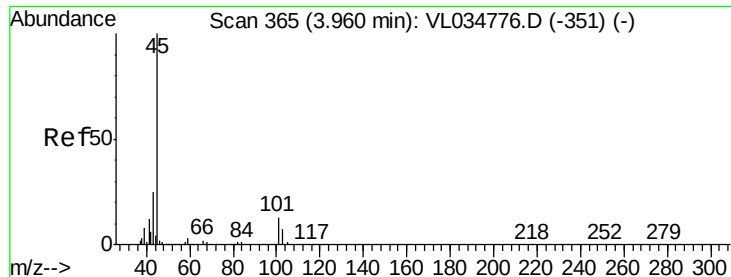
Tgt Ion: 59 Resp: 41599

Ion Ratio Lower Upper

59 100

57 11.6 8.6 13.0





#19

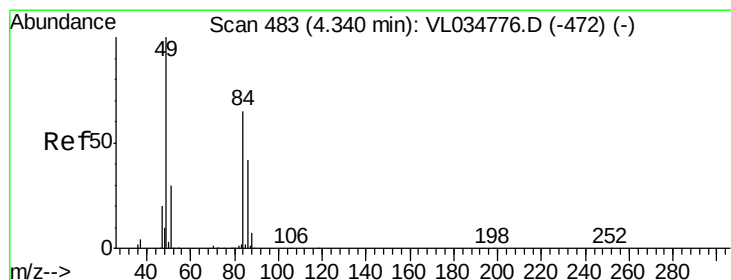
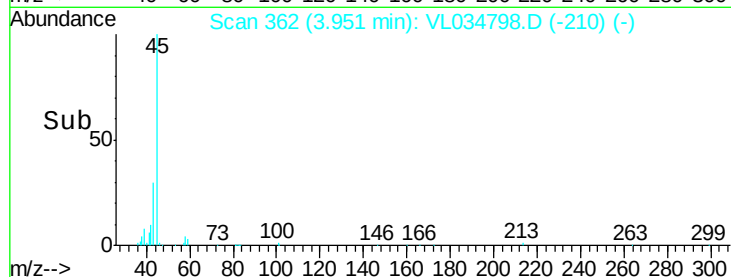
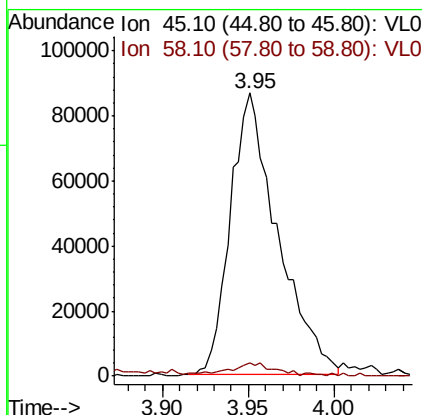
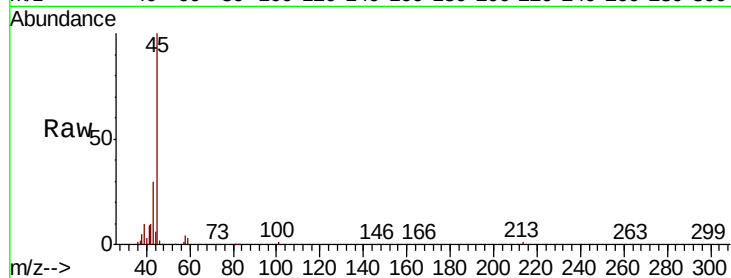
Isopropyl Alcohol
 Concen: 2.359 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL034798.D
 Acq: 5 Mar 2020 16:31

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4DUP

Tot Ion	Ratio	Lower	Upper
45	100		
58	5.3	1.8	2.8#

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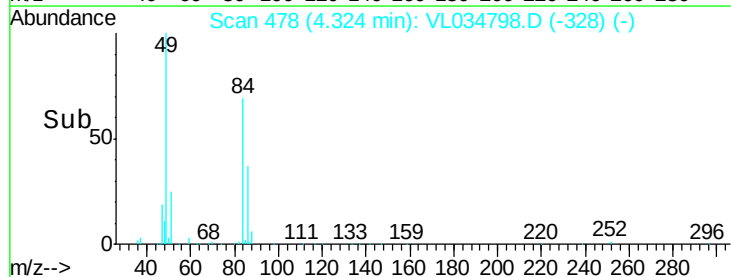
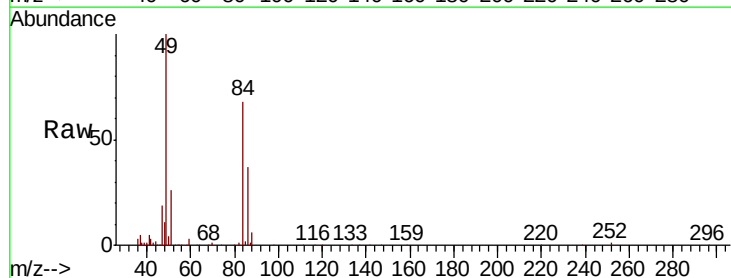
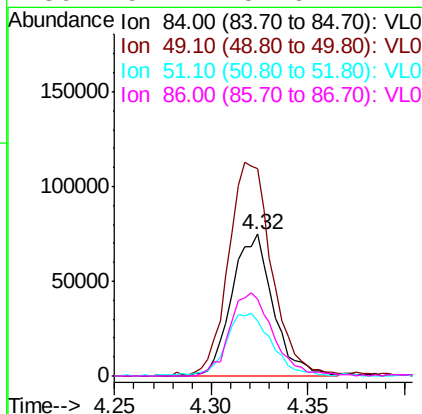
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 3/9/2020 9:18:51 AM

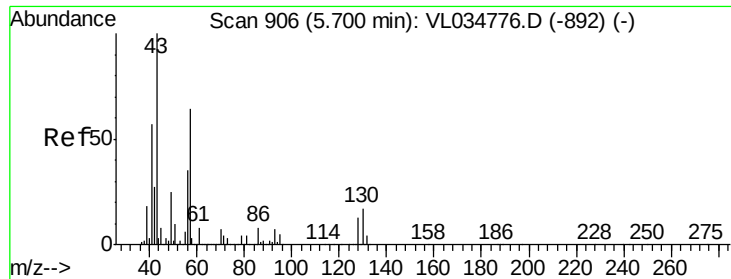


#20

Methylene Chloride
 Concen: 2.654 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.02 min
 Lab File: VL034798.D
 Acq: 5 Mar 2020 16:31

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.1	123.2	184.8
51	37.6	37.4	56.2
86	54.1	51.6	77.4





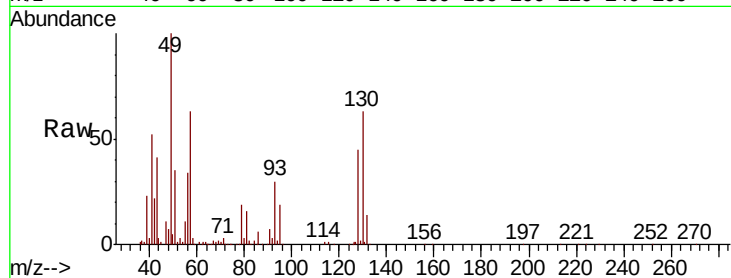
#26
Hexane
Concen: 1.790 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

Tot Ion	57	Resp	158194
Ion	Ratio	Lower	Upper
57	100		
41	97.2	72.0	108.0
43	79.8	179.1	268.7#
56	55.7	42.6	63.8

Manual Integrations
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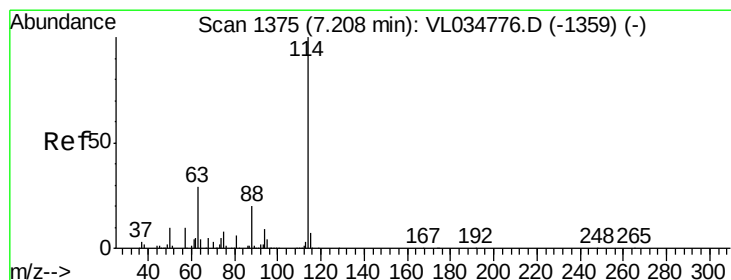
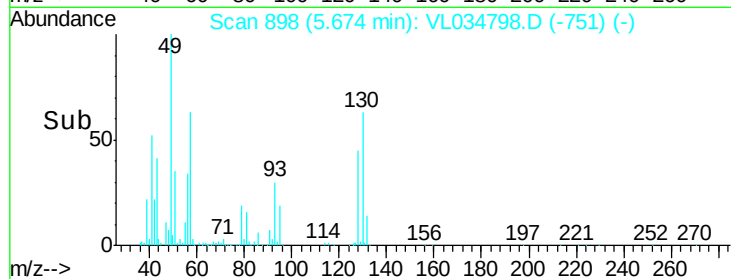
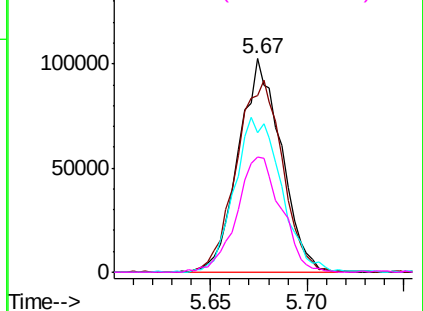
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

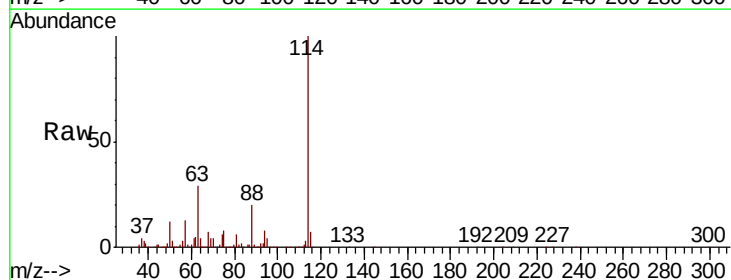
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion	114	Resp	2029574
Ion	Ratio	Lower	Upper
114	100		
63	29.4	23.6	35.4
88	19.5	15.8	23.8

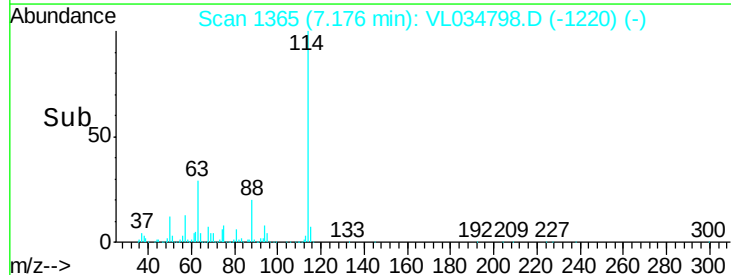
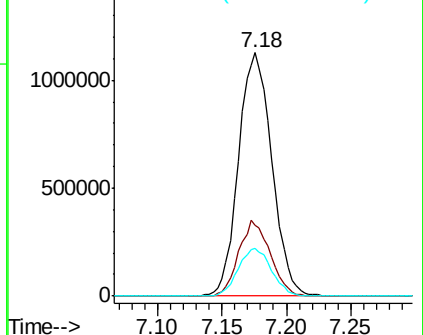


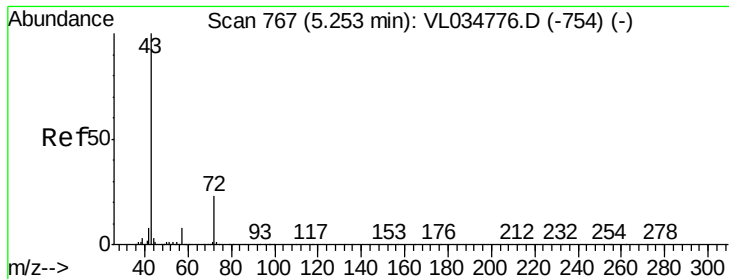
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





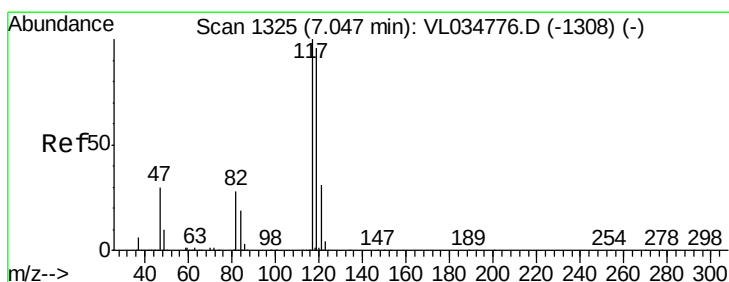
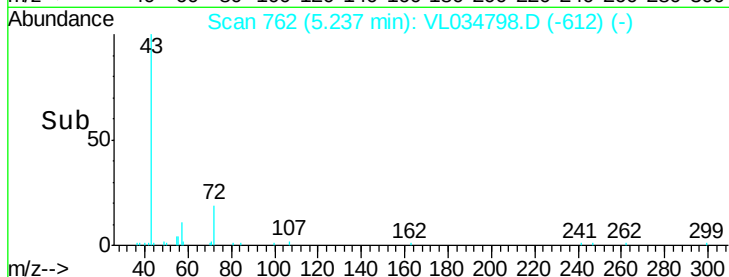
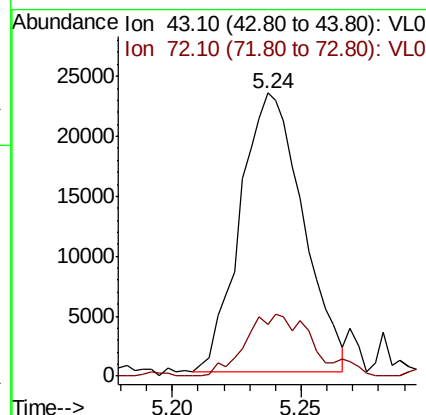
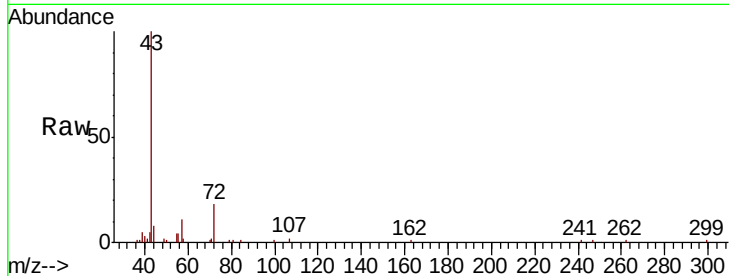
#34
2-Butanone
Concen: 0.299 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

Tot Ion: 43 Resp: 39423
Ion Ratio Lower Upper
43 100
72 25.0 17.5 26.3

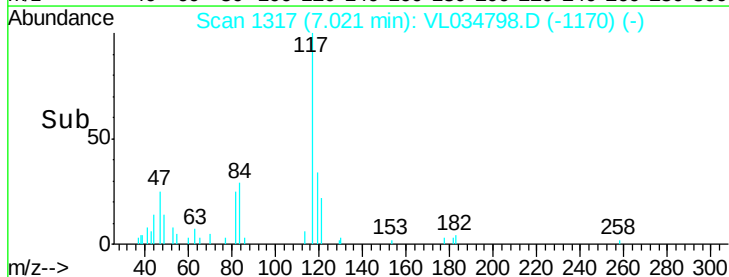
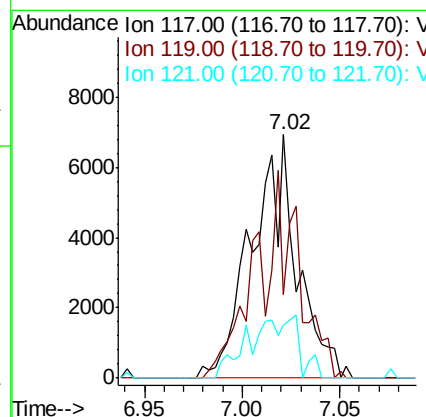
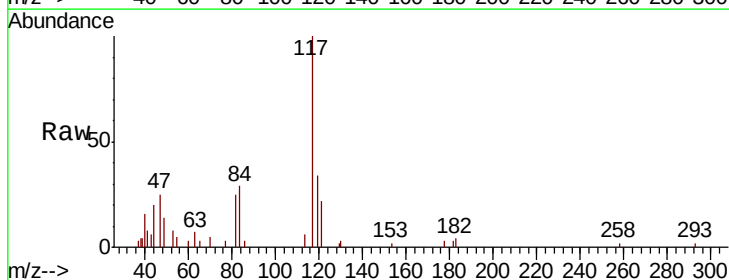
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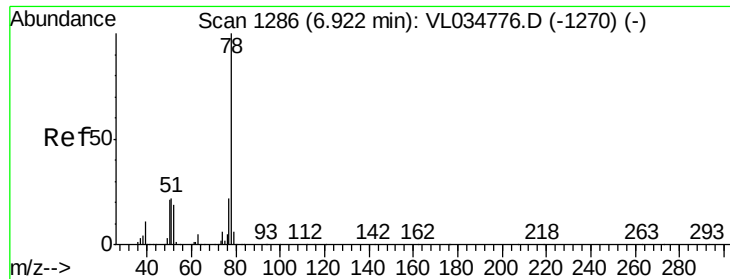
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#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion: 117 Resp: 11103
Ion Ratio Lower Upper
117 100
119 34.3 76.8 115.2#
121 21.9 24.6 37.0#





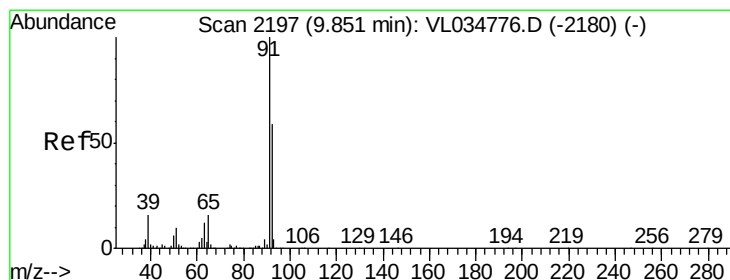
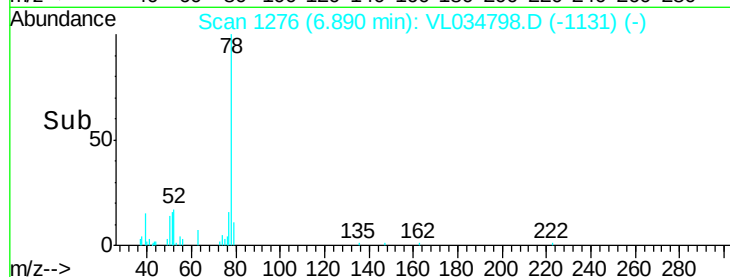
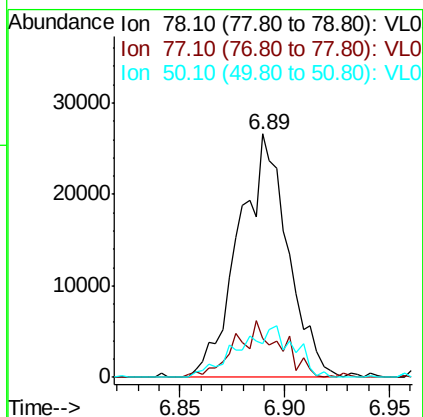
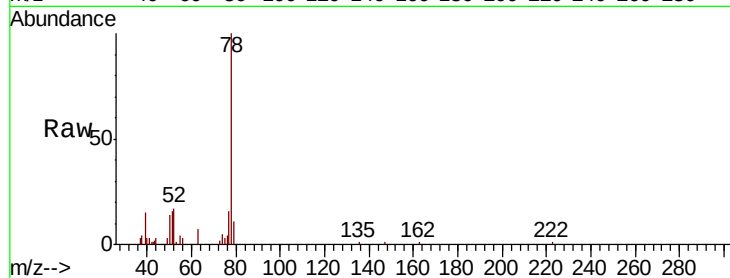
#36
Benzene
Concen: 0.250 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.1	18.0	27.0#
50	13.7	16.9	25.3#

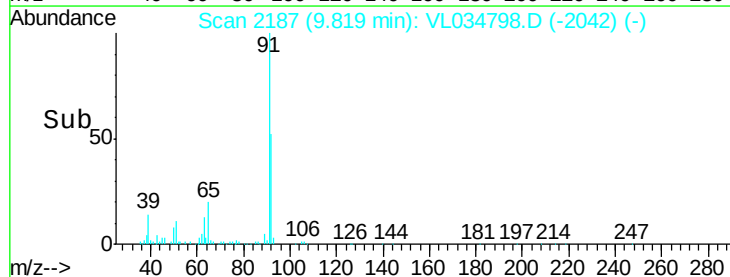
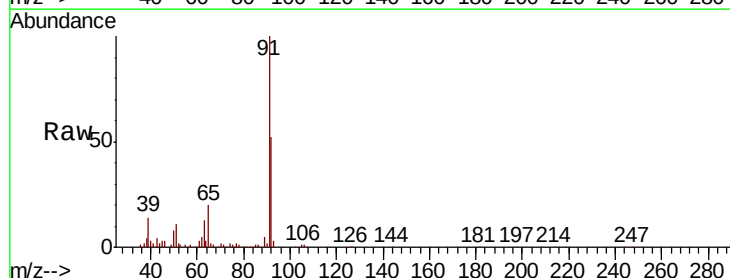
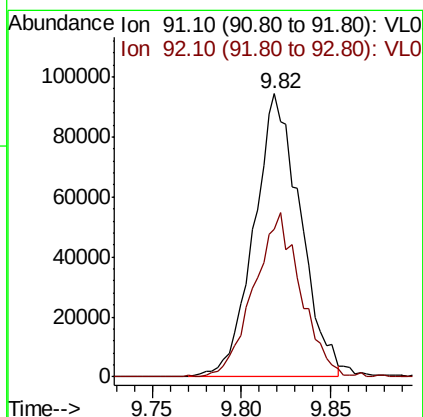
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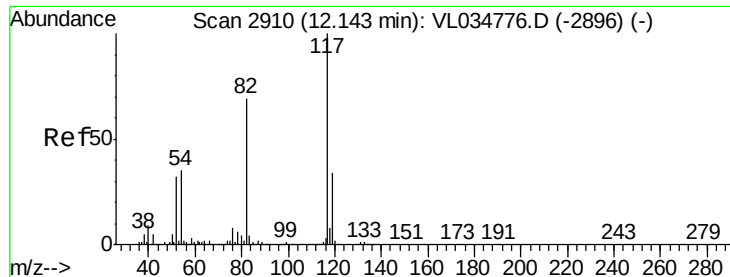
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#53
Toluene
Concen: 0.935 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.2	72.2





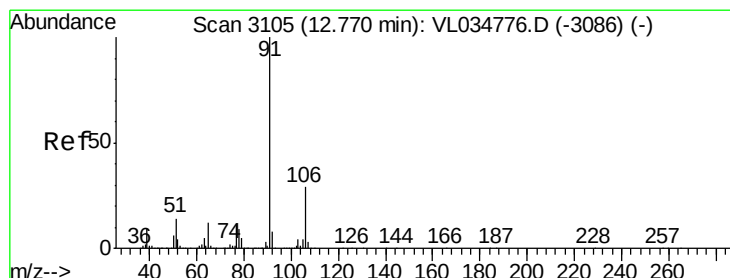
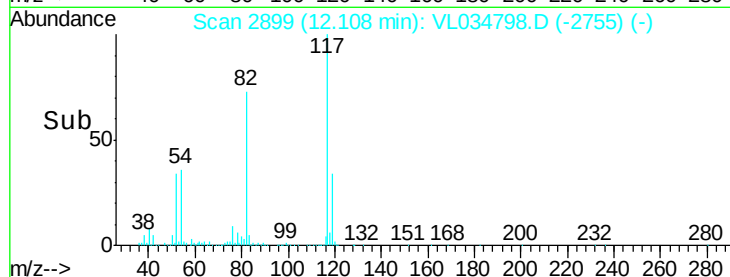
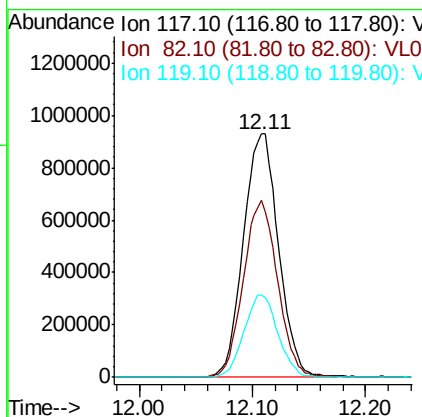
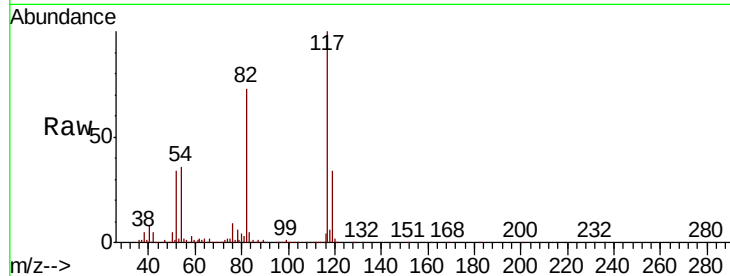
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.04 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

Tot Ion:117 Resp: 2009967
Ion Ratio Lower Upper
117 100
82 71.1 53.9 80.9
119 32.9 25.0 37.4

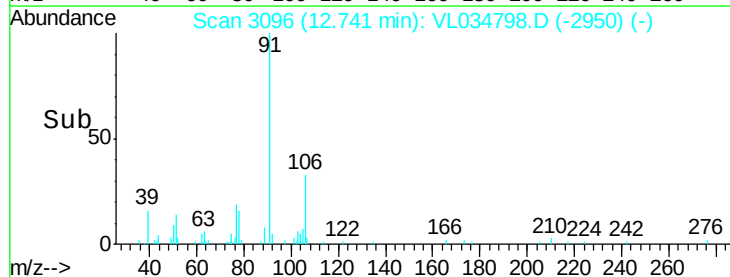
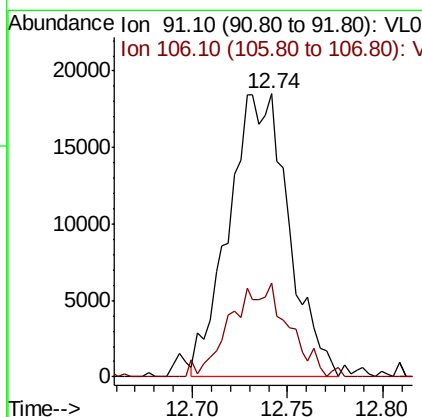
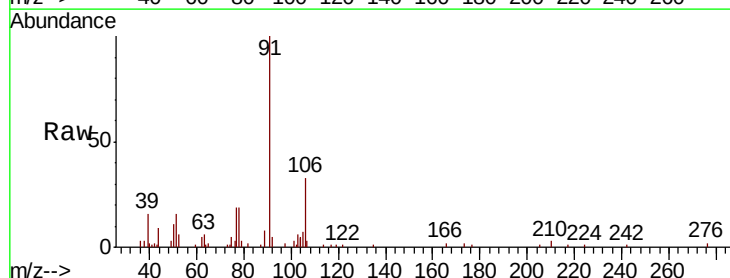
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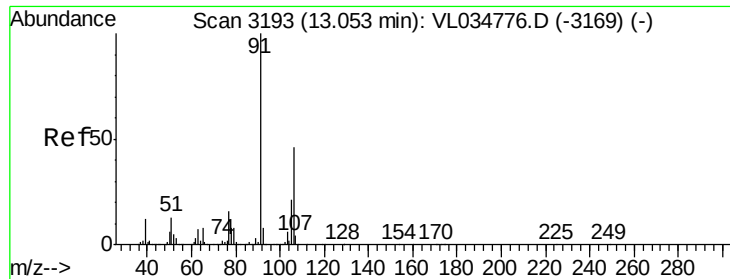
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#58
Ethyl Benzene
Concen: 0.164 ppbv m
RT: 12.74 min Scan# 3096
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion: 91 Resp: 40584
Ion Ratio Lower Upper
91 100
106 33.2 22.8 34.2





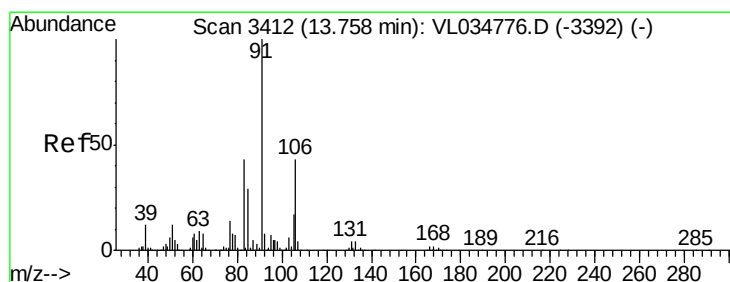
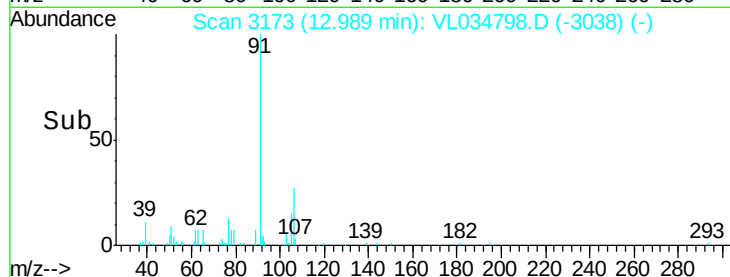
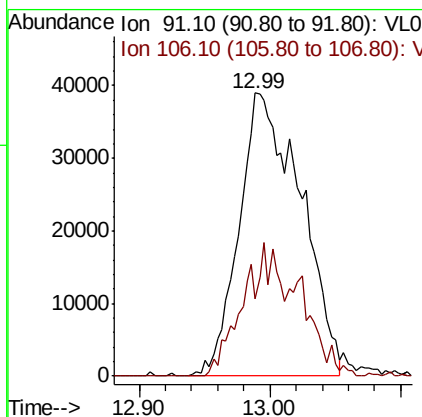
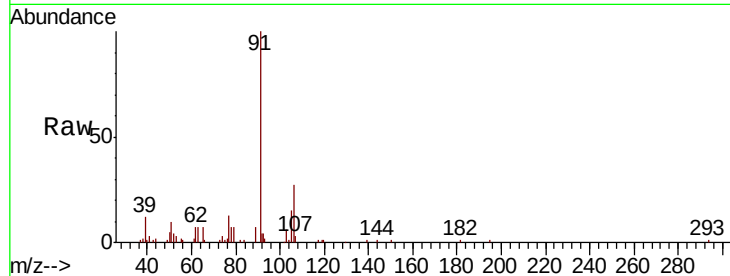
#59
m/p-Xylene
Concen: 0.595 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.06 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

Tot Ion: 91 Resp: 127675
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#

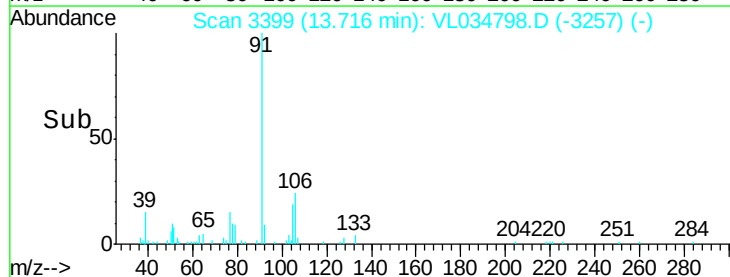
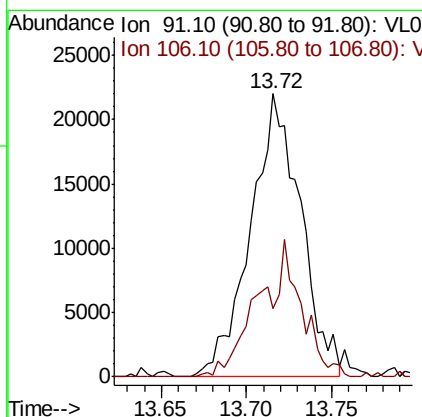
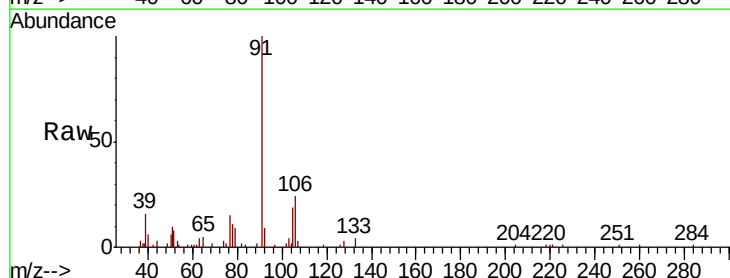
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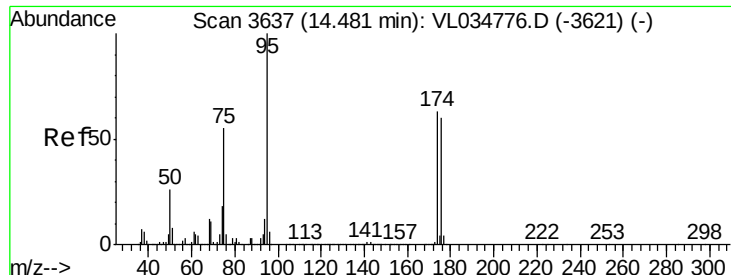
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#60
o-Xylene
Concen: 0.207 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.04 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion: 91 Resp: 44910
Ion Ratio Lower Upper
91 100
106 41.6 21.7 65.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.397 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.04 min
 Lab File: VL034798.D
 Acq: 5 Mar 2020 16:31

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4DUP

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	61.2	50.6	76.0	
175	4.6	3.8	5.6	

Manual Integrations
 APPROVED

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