

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

Quant Time: Mar 06 03:43:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
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%

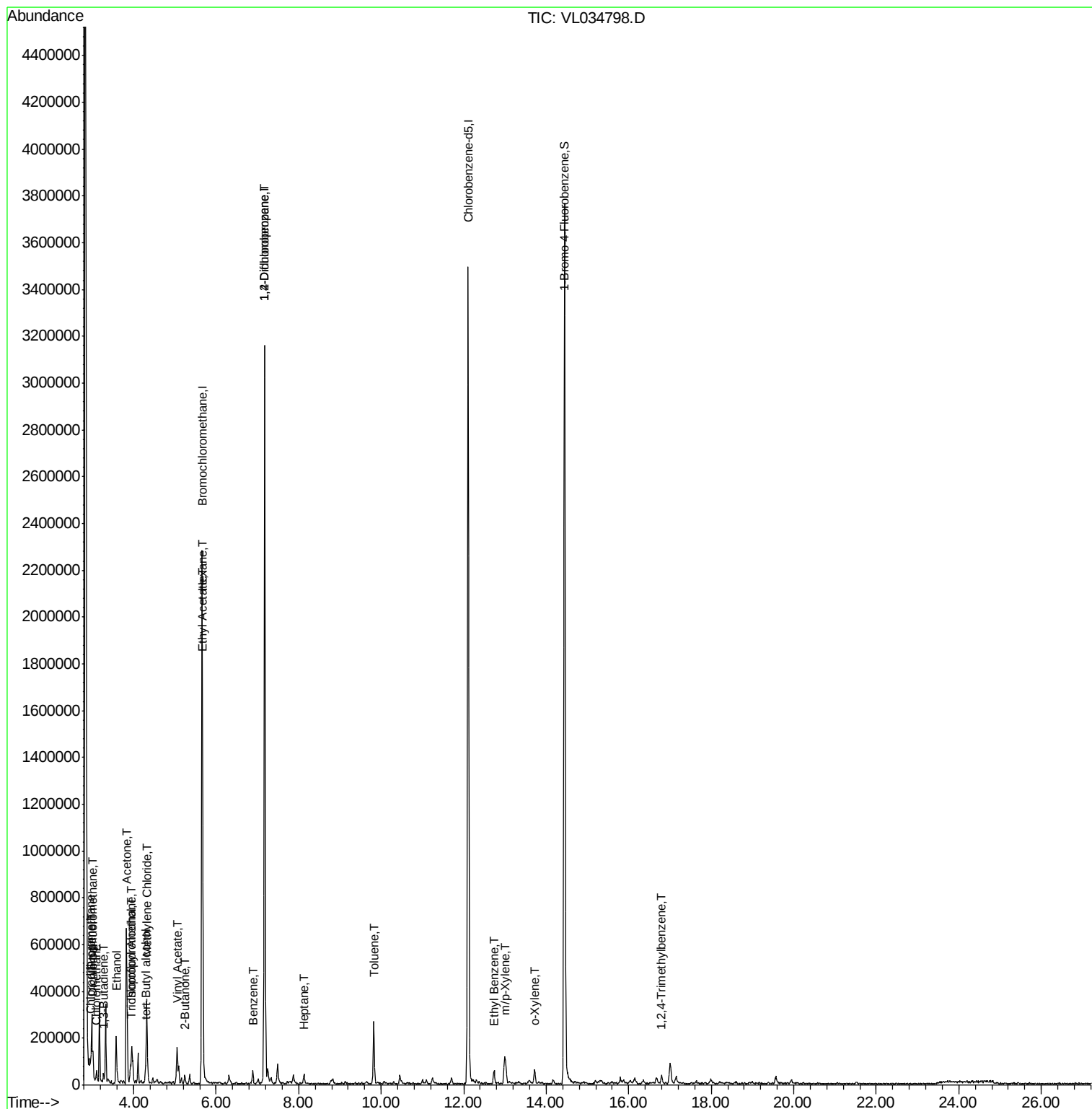
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	95828	0.601	ppbv	92
3) Chlorodifluoromethane	2.95	51	80611	0.724	ppbv #	85
4) Chloromethane	3.10	50	32277	0.538	ppbv	98
9) Propene	2.98	41	32225	0.735	ppbv #	73
10) Heptane	8.13	43	10378	0.093	ppbv #	82
11) Trichlorofluoromethane	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
16) 1,3-Butadiene	3.28	39	4210	0.079	ppbv #	56
17) tert-Butyl alcohol	4.29	59	35161	0.381	ppbv #	92
19) Isopropyl Alcohol	3.95	45	165454	2.359	ppbv #	91
20) Methylene Chloride	4.32	84	110919	2.654	ppbv	90
23) Vinyl Acetate	5.06	43	172155	1.097	ppbv #	95
25) Ethyl Acetate	5.68	43	57646	0.285	ppbv #	88
26) Hexane	5.67	57	158194	1.790	ppbv #	44
34) 2-Butanone	5.24	43	39423	0.299	ppbv	93
36) Benzene	6.89	78	24569	0.142	ppbv #	83
39) 1,2-Dichloropropane	7.17	63	595202	8.504	ppbv #	24
53) Toluene	9.82	91	171660	0.935	ppbv	98
58) Ethyl Benzene	12.73	91	22005	0.089	ppbv	96
59) m/p-Xylene	13.01	91	21430	0.100	ppbv #	31
60) o-Xylene	13.72	91	41691	0.192	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	10081	0.040	ppbv #	57

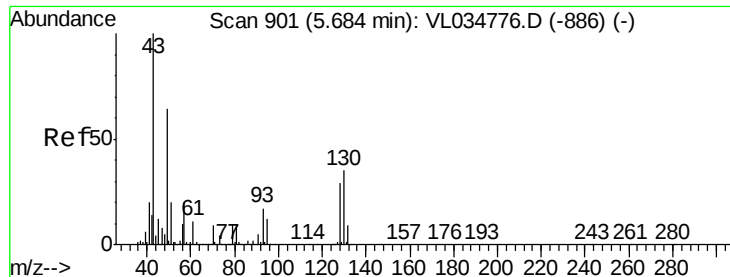
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#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

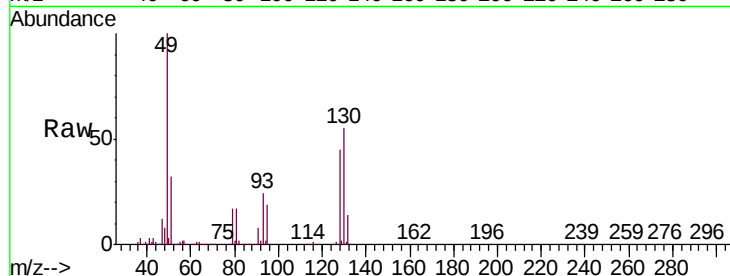
Tgt Ion: 49 Resp: 977707

Ion Ratio Lower Upper

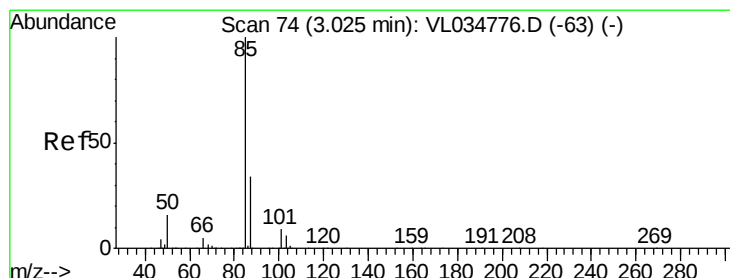
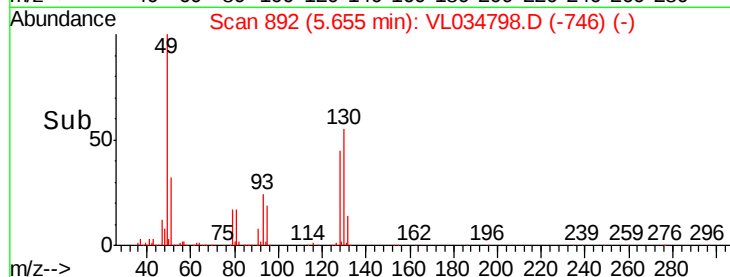
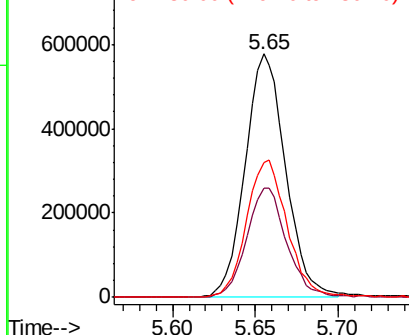
49 100

128 44.9 21.6 64.6

130 57.6 27.4 82.2



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.601 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.02 min

Lab File: VL034798.D

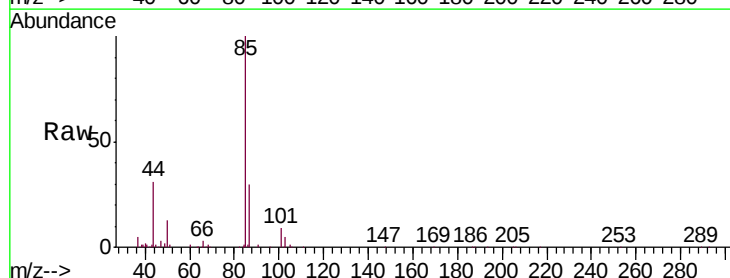
Acq: 5 Mar 2020 16:31

Tgt Ion: 85 Resp: 95828

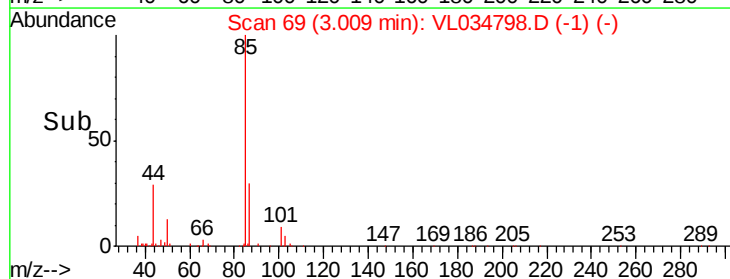
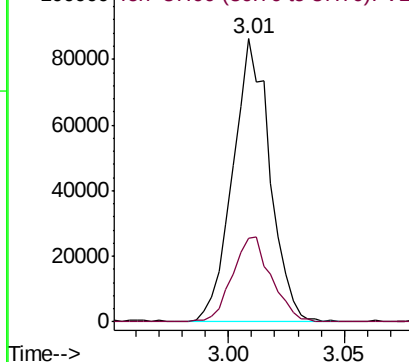
Ion Ratio Lower Upper

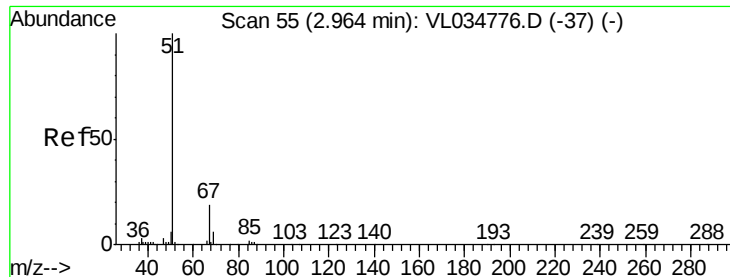
85 100

87 29.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.724 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 :

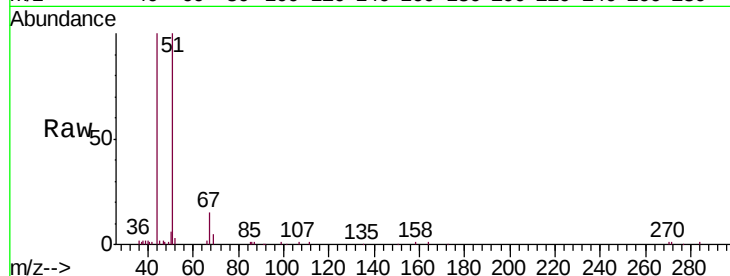
A-1-4DUP

Tgt Ion: 51 Resp: 80611

Ion Ratio Lower Upper

51 100

67 12.1 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.95

40000

30000

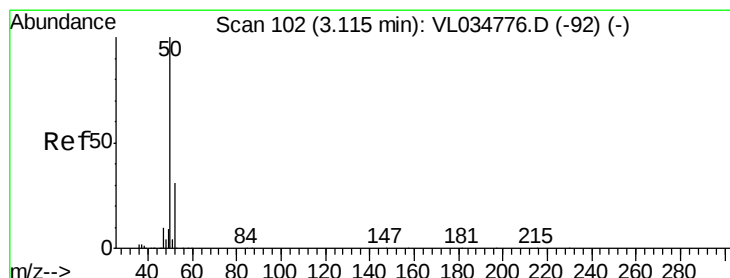
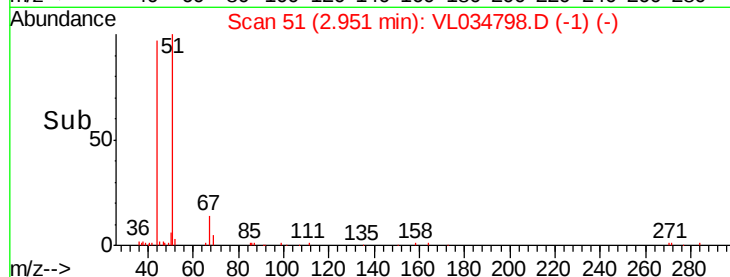
20000

10000

0

Time-->

2.90 2.95 3.00



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.02 min

Lab File: VL034798.D

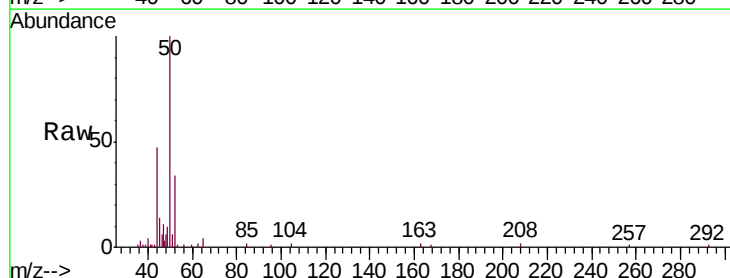
Acq: 5 Mar 2020 16:31

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

3.10

25000

20000

15000

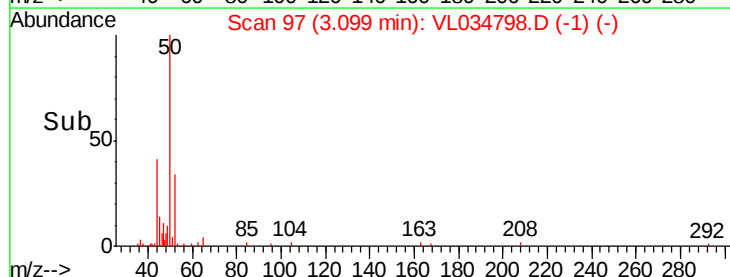
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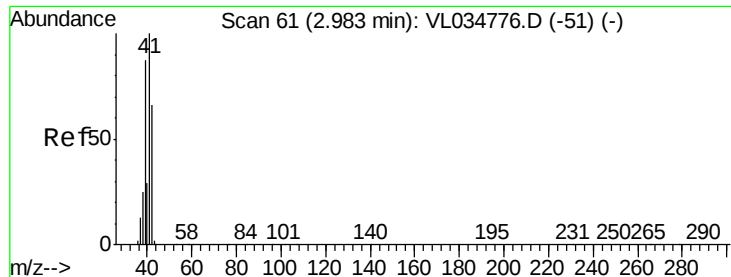
5000

0

Time-->

3.06 3.08 3.10 3.12 3.14





#9

Propene

Concen: 0.735 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

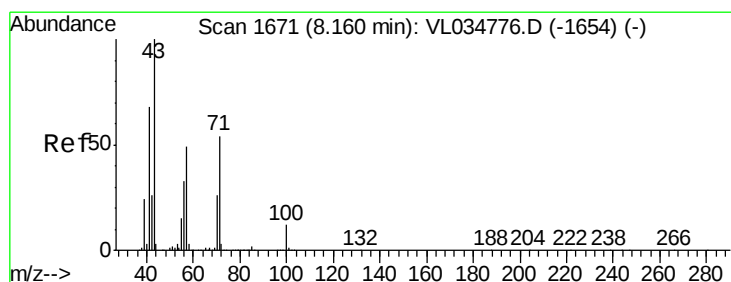
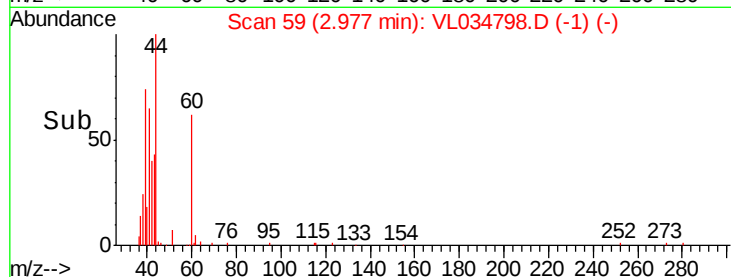
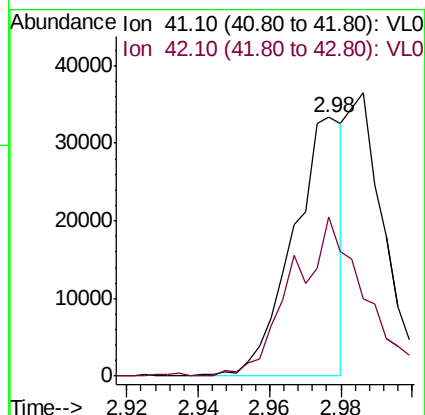
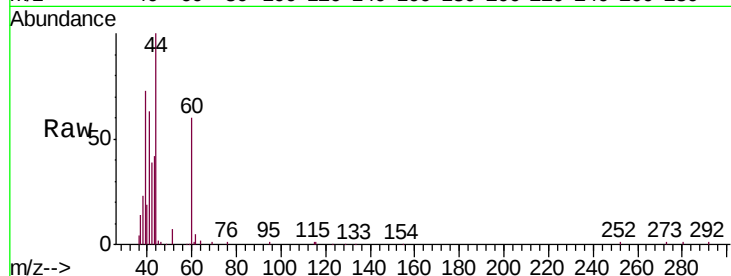
A-1-4DUP

Tgt Ion: 41 Resp: 32225

Ion Ratio Lower Upper

41 100

42 91.9 55.6 83.4#



#10

Heptane

Concen: 0.093 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.03 min

Lab File: VL034798.D

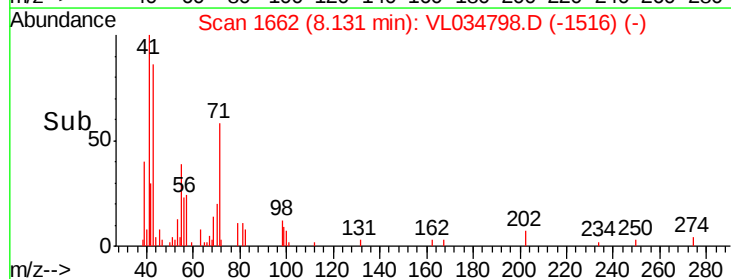
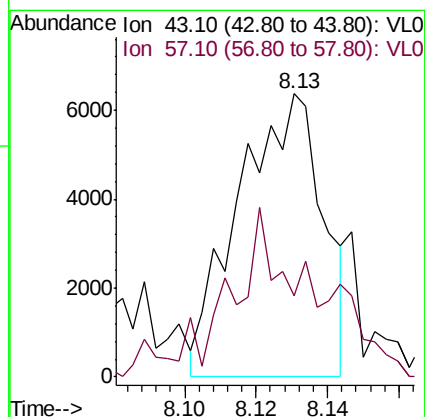
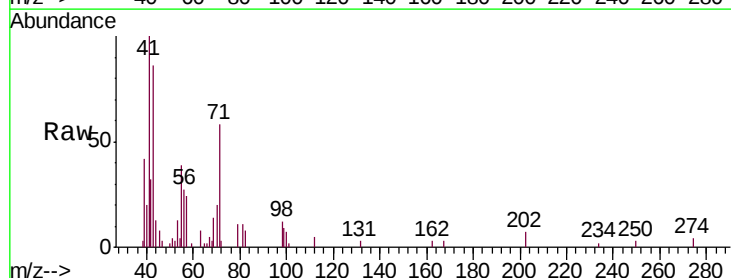
Acq: 5 Mar 2020 16:31

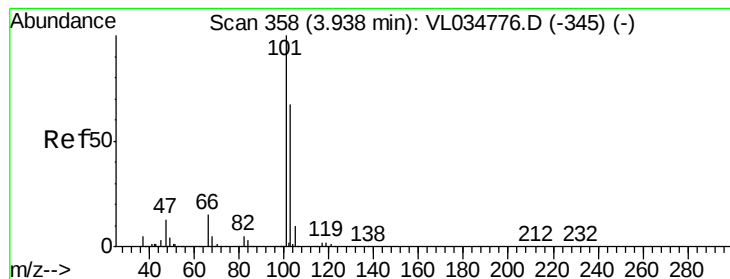
Tgt Ion: 43 Resp: 10378

Ion Ratio Lower Upper

43 100

57 63.4 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 :

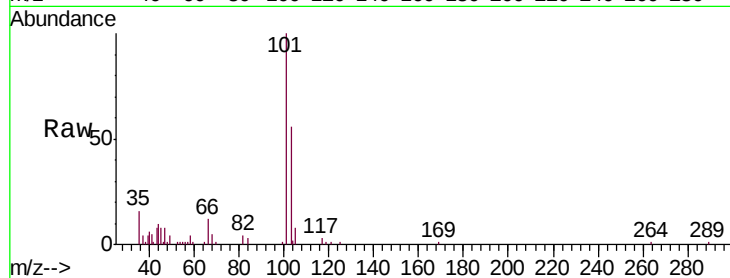
A-1-4DUP

Tgt Ion: 101 Resp: 44984

Ion Ratio Lower Upper

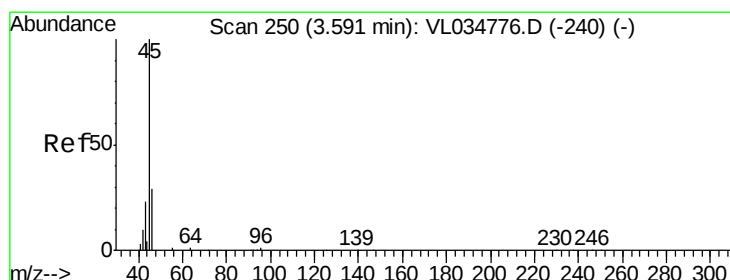
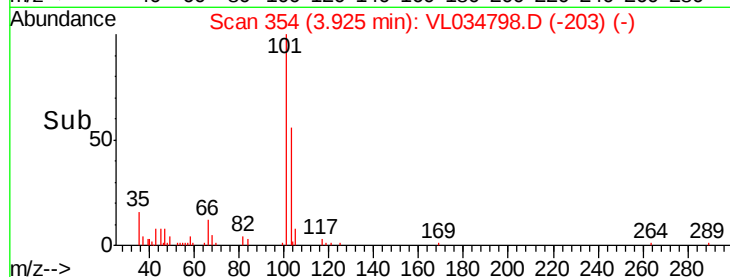
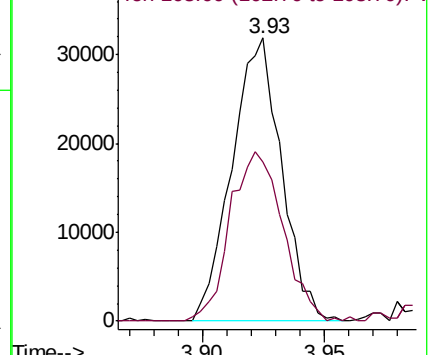
101 100

103 58.3 53.6 80.4



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

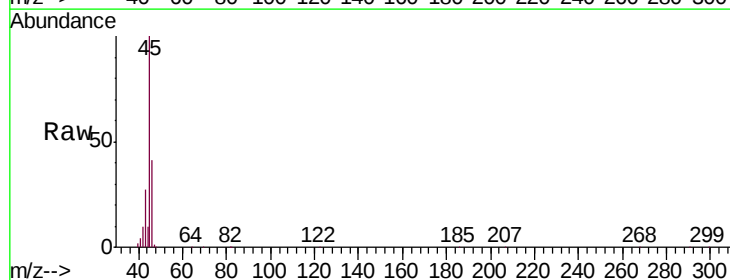
Acq: 5 Mar 2020 16:31

Tgt Ion: 45 Resp: 190384

Ion Ratio Lower Upper

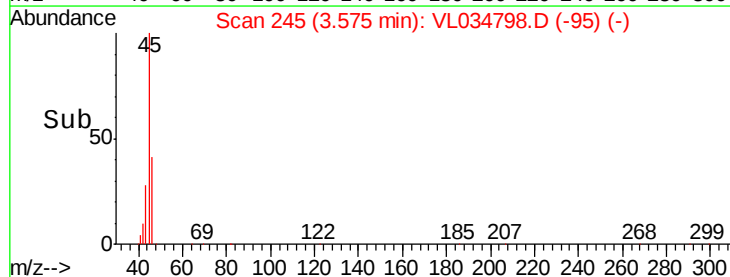
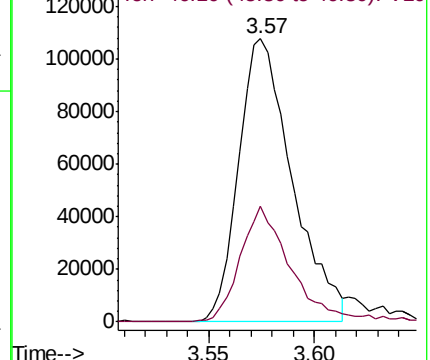
45 100

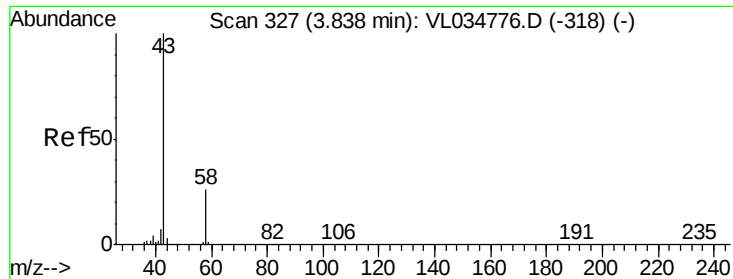
46 38.8 14.7 58.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

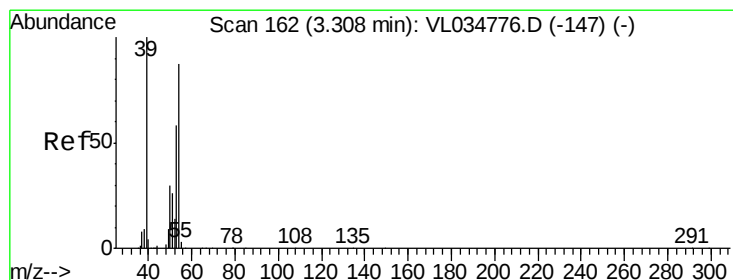
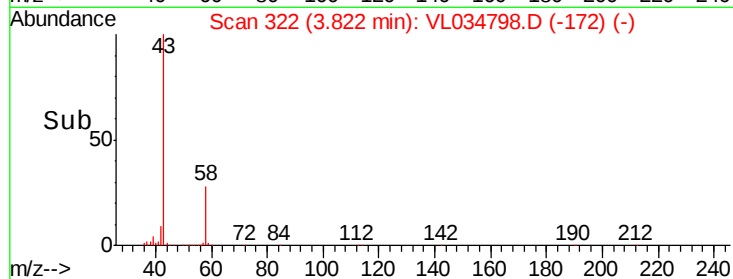
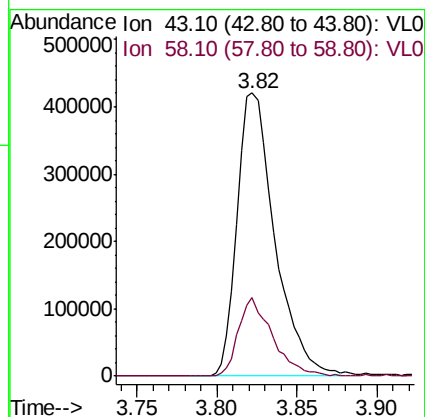
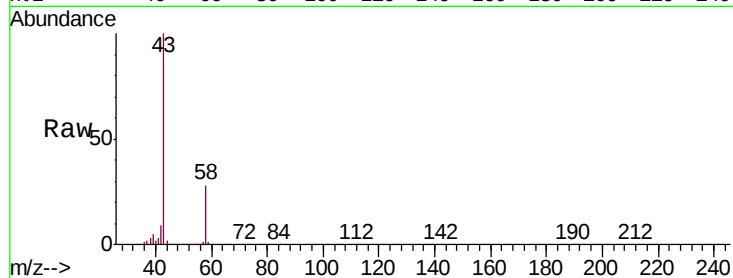




#15
Acetone
Concen: 5.773 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.02 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

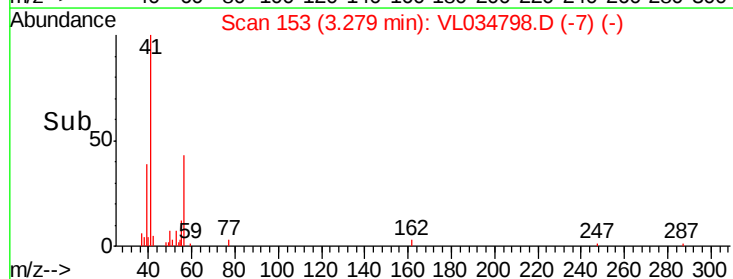
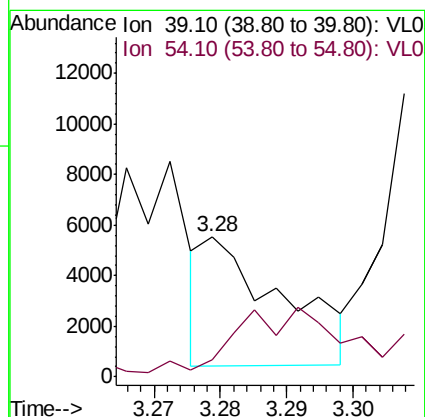
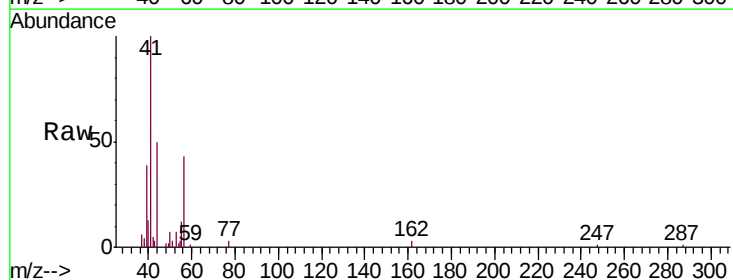
Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

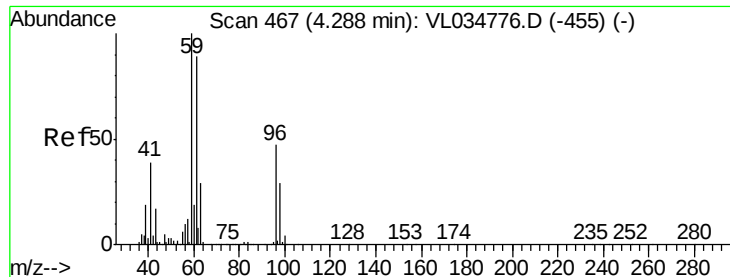
Tgt Ion: 43 Resp: 675896
Ion Ratio Lower Upper
43 100
58 25.2 21.0 31.6



#16
1,3-Butadiene
Concen: 0.079 ppbv
RT: 3.28 min Scan# 153
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion: 39 Resp: 4210
Ion Ratio Lower Upper
39 100
54 119.2 64.2 96.2#



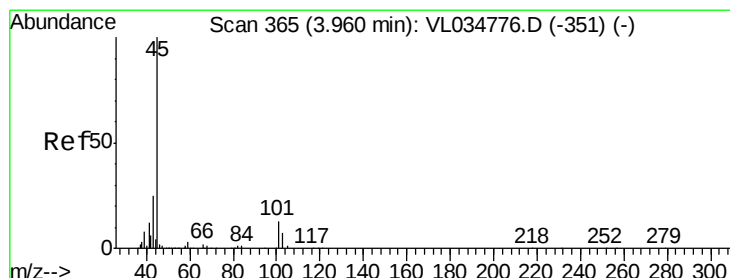
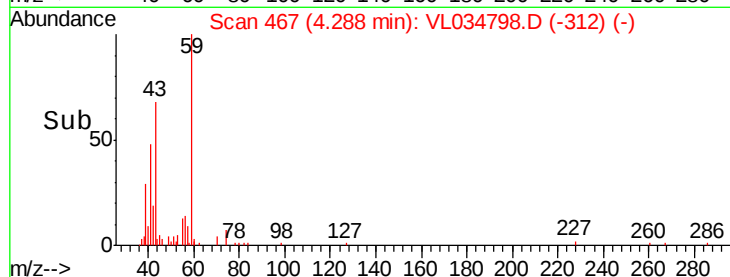
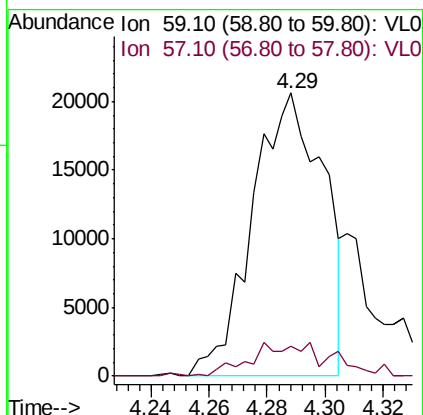
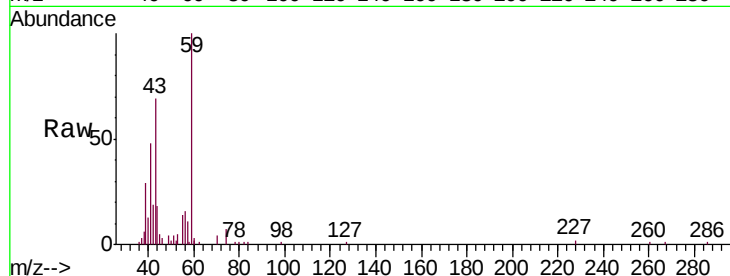


#17

tert-Butyl alcohol
Concen: 0.381 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

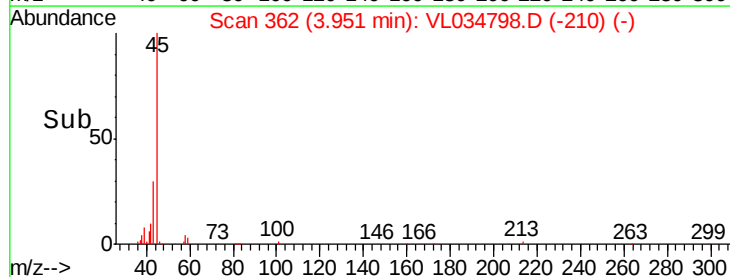
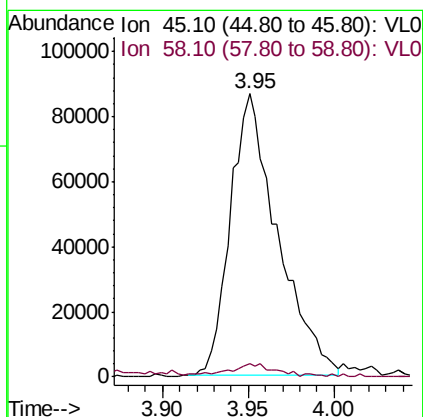
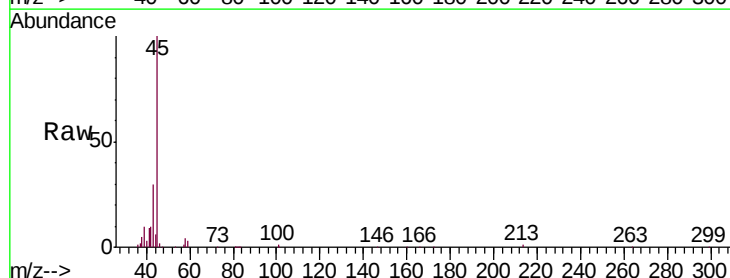
Tgt Ion: 59 Resp: 35161
Ion Ratio Lower Upper
59 100
57 13.7 8.6 13.0#

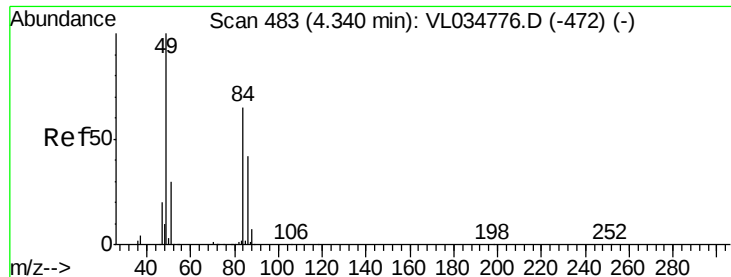


#19

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

Tgt Ion: 45 Resp: 165454
Ion Ratio Lower Upper
45 100
58 5.3 1.8 2.8#

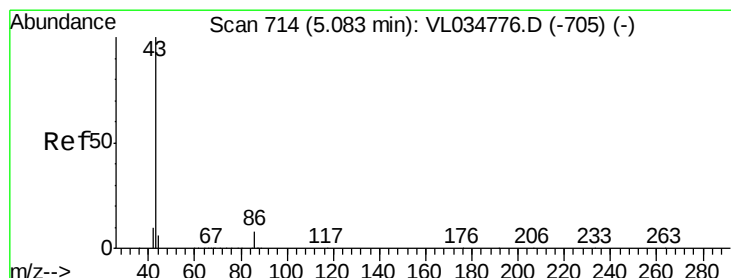
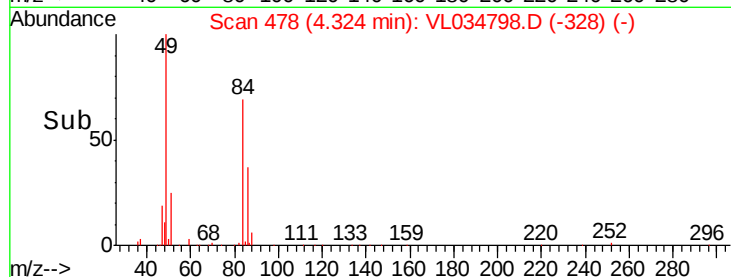
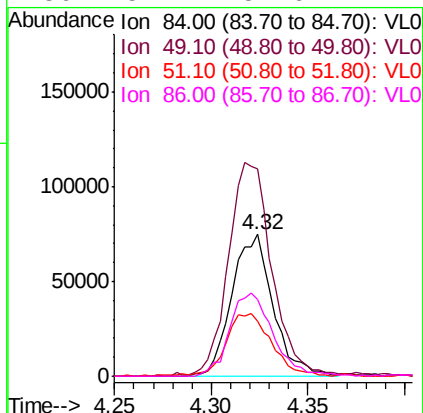
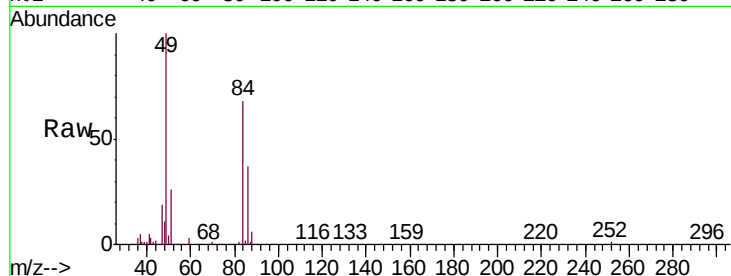




#20
Methylene Chloride
Concen: 2.654 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

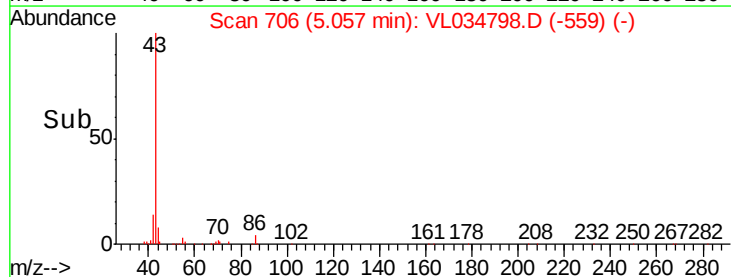
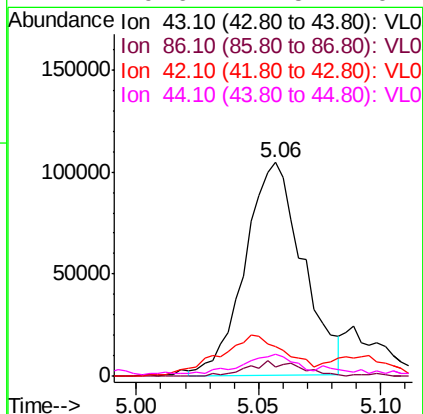
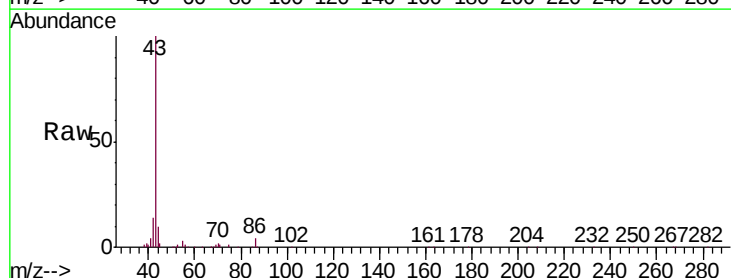
Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

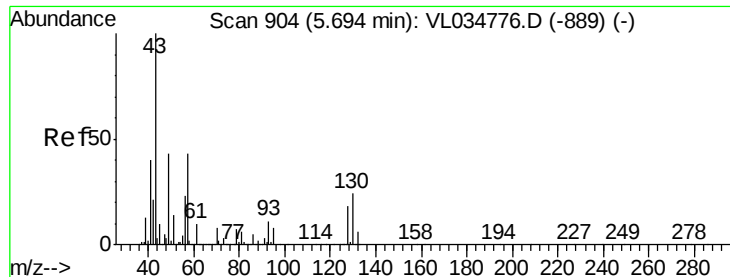
Tgt Ion:	84	Resp:	110919
Ion	Ratio	Lower	Upper
84	100		
49	145.1	123.2	184.8
51	37.6	37.4	56.2
86	54.1	51.6	77.4



#23
Vinyl Acetate
Concen: 1.097 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.03 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

Tgt Ion:	43	Resp:	172155
Ion	Ratio	Lower	Upper
43	100		
86	4.7	5.9	8.9#
42	10.3	8.2	12.2
44	9.6	4.5	6.7#





#25

Ethyl Acetate

Concen: 0.285 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.02 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP

Tgt Ion: 43 Resp: 57646

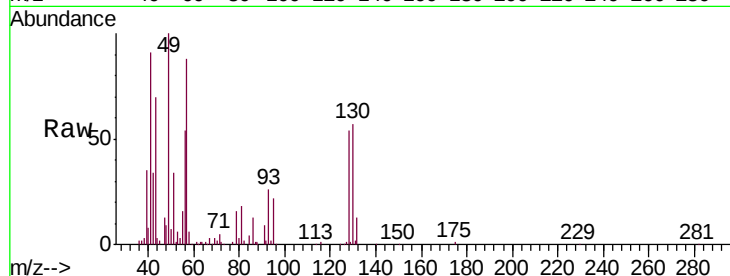
Ion Ratio Lower Upper

43 100

45 8.1 8.2 12.4#

61 5.5 7.5 11.3#

70 0.4 6.0 9.0#

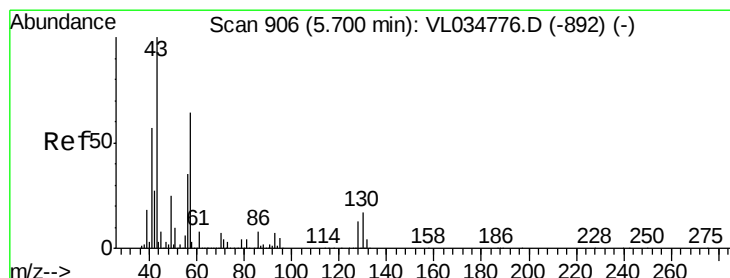
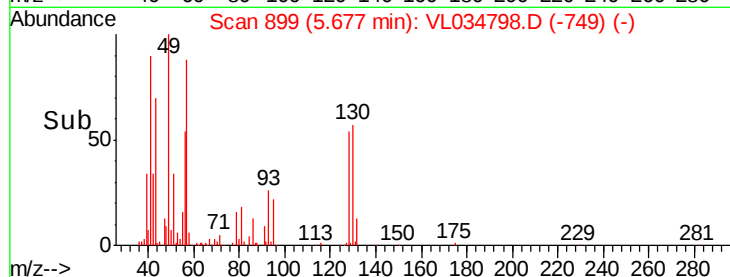
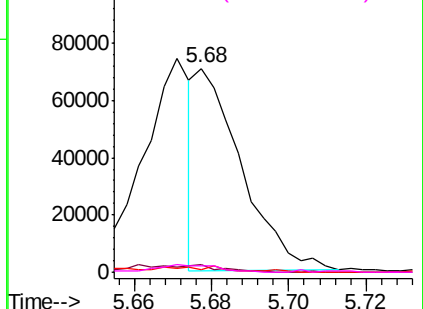


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#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

Tgt Ion: 57 Resp: 158194

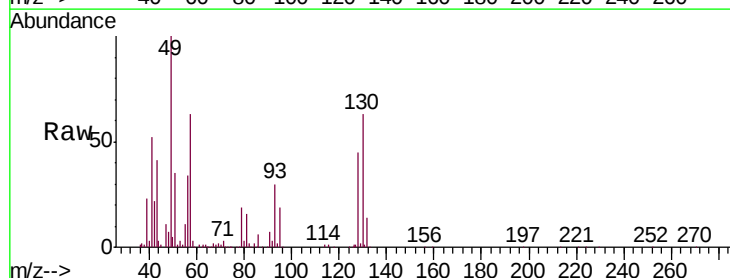
Ion Ratio Lower Upper

57 100

41 97.2 72.0 108.0

43 79.8 179.1 268.7#

56 55.7 42.6 63.8

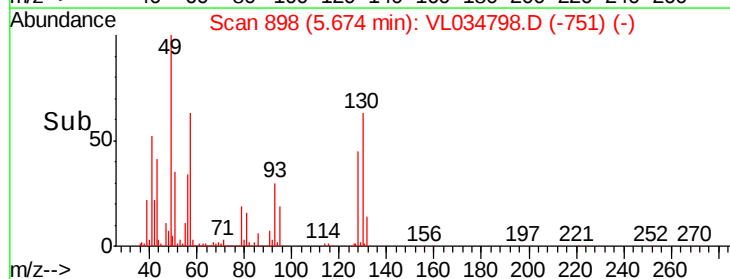
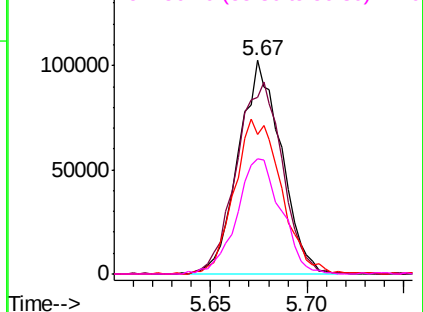


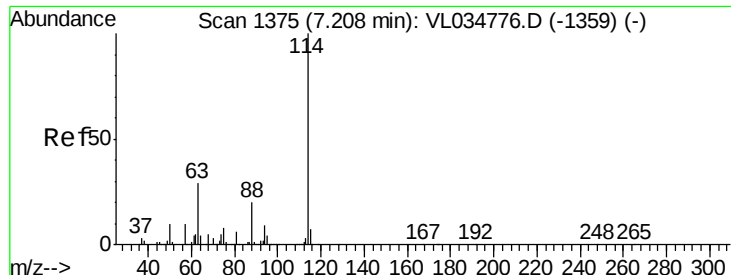
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

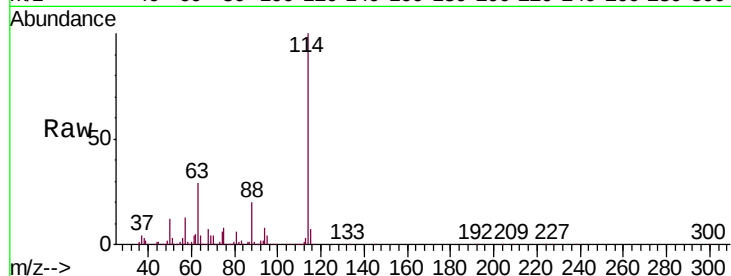




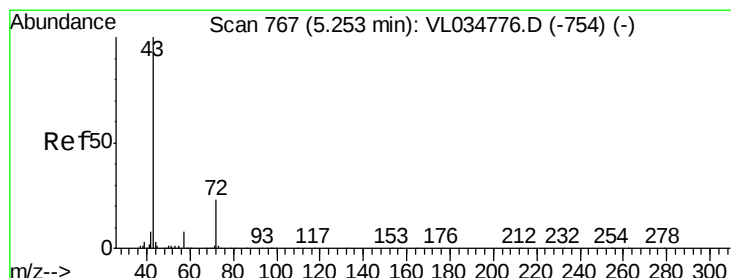
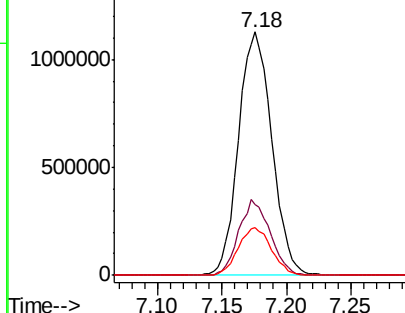
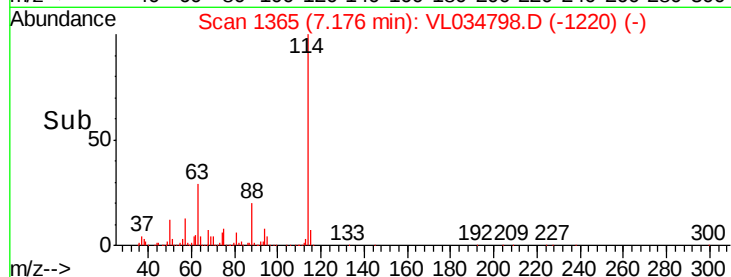
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.03 min
 Lab File: VL034798.D
 Acq: 5 Mar 2020 16:31

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4DUP

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

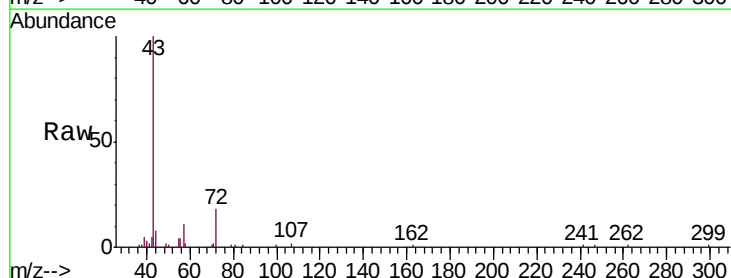


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

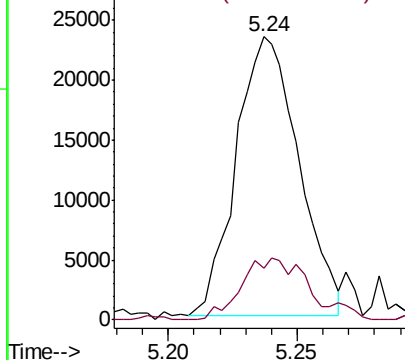
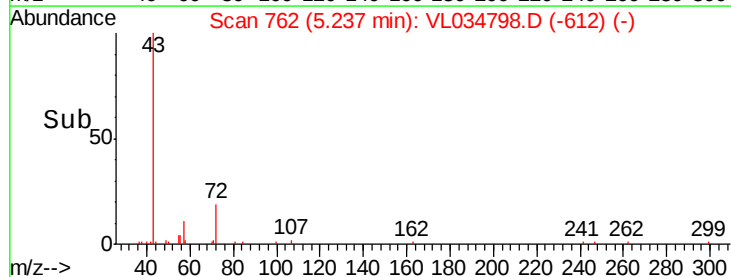


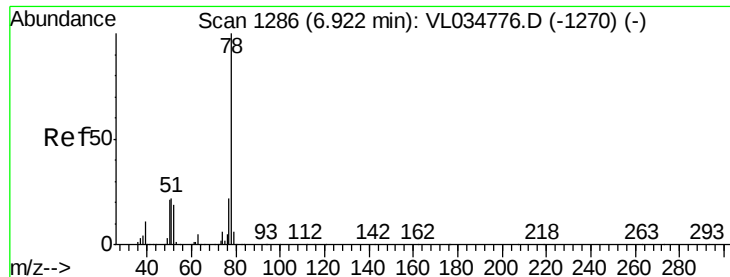
#34
 2-Butanone
 Concen: 0.299 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL034798.D
 Acq: 5 Mar 2020 16:31

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



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.142 ppbv

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

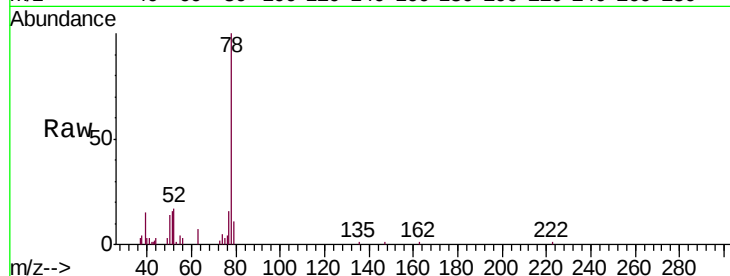
Tgt Ion: 78 Resp: 24569

Ion Ratio Lower Upper

78 100

77 14.2 18.0 27.0#

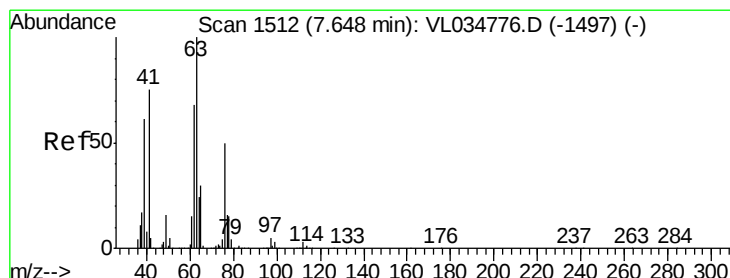
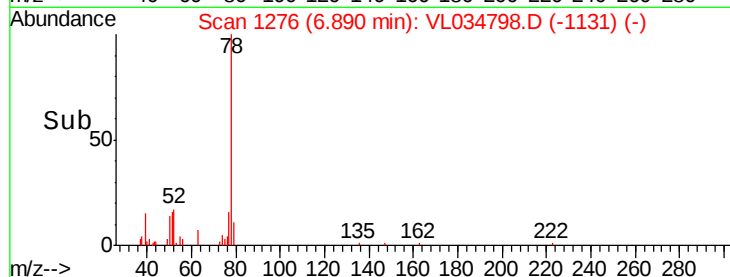
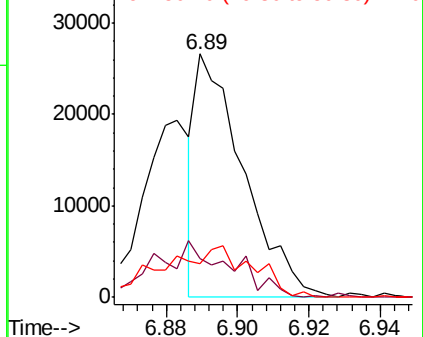
50 13.7 16.9 25.3#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.504 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.48 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

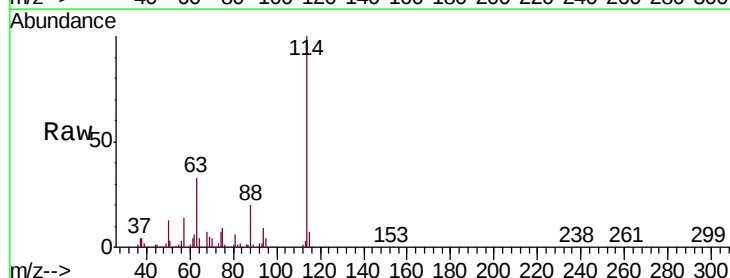
Tgt Ion: 63 Resp: 595202

Ion Ratio Lower Upper

63 100

41 0.0 60.3 90.5#

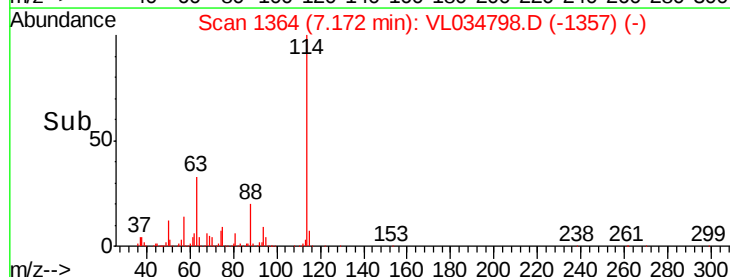
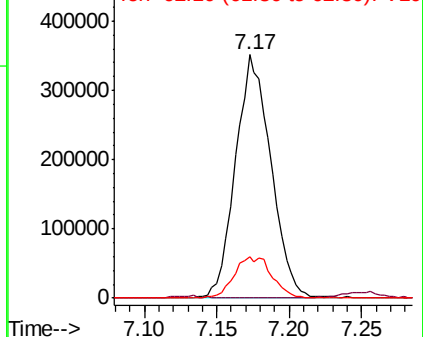
62 17.1 54.5 81.7#

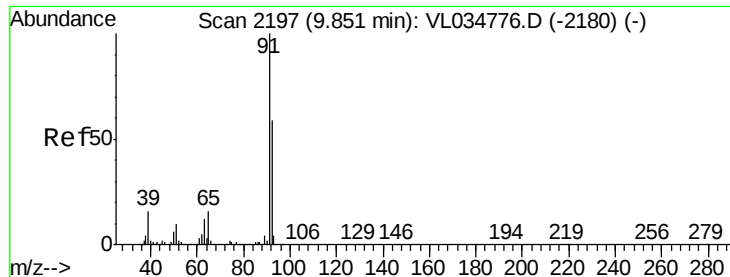


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#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

Instrument :

MSVOA_L

ClientSampleId :

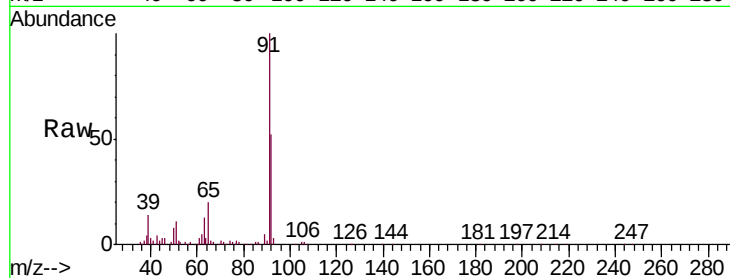
A-1-4DUP

Tgt Ion: 91 Resp: 171660

Ion Ratio Lower Upper

91 100

92 58.7 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.82

100000

80000

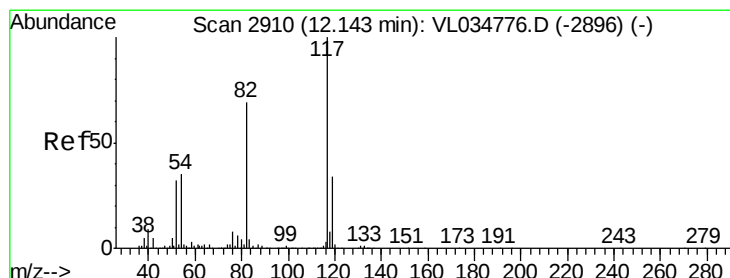
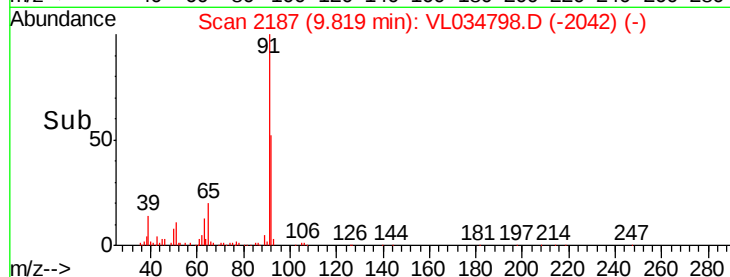
60000

40000

20000

0

Time-->



#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

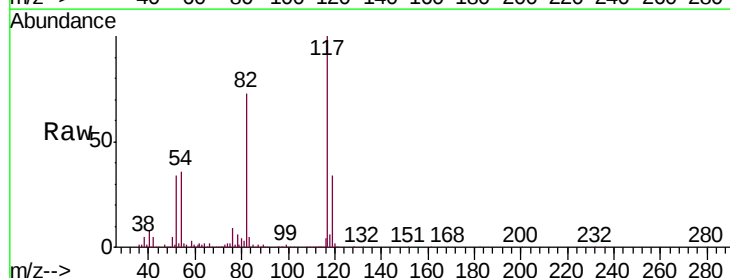
Tgt Ion: 117 Resp: 2009967

Ion Ratio Lower Upper

117 100

82 71.1 53.9 80.9

119 32.9 25.0 37.4



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1200000

1000000

800000

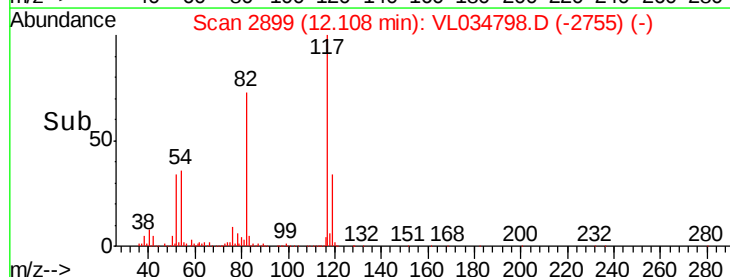
600000

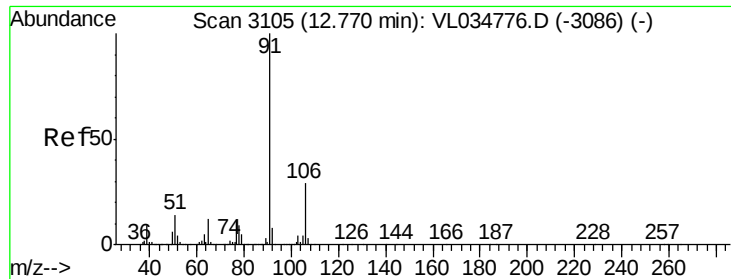
400000

200000

0

Time-->





#58

Ethyl Benzene

Concen: 0.089 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.04 min

Lab File: VL034798.D

Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

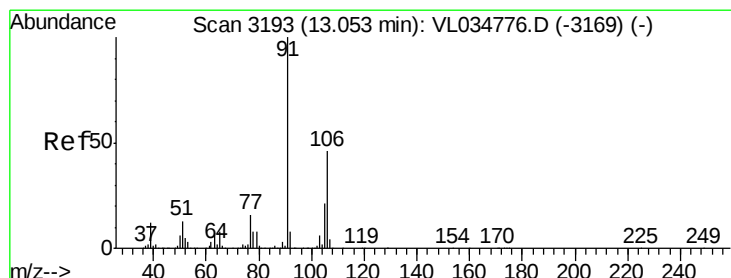
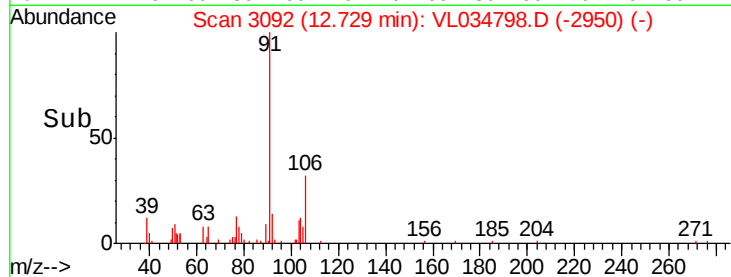
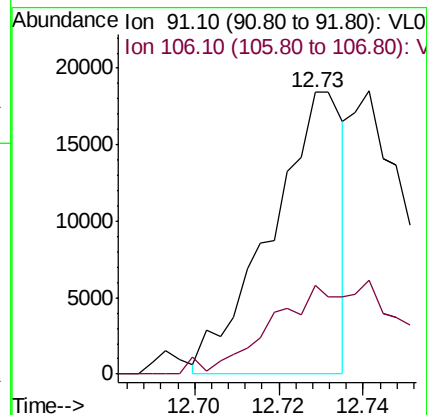
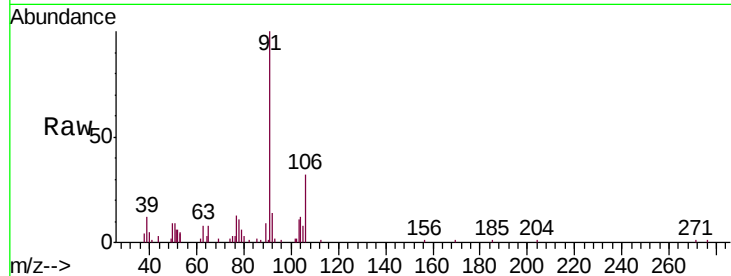
A-1-4DUP

Tgt Ion: 91 Resp: 22005

Ion Ratio Lower Upper

91 100

106 26.5 22.8 34.2



#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VL034798.D

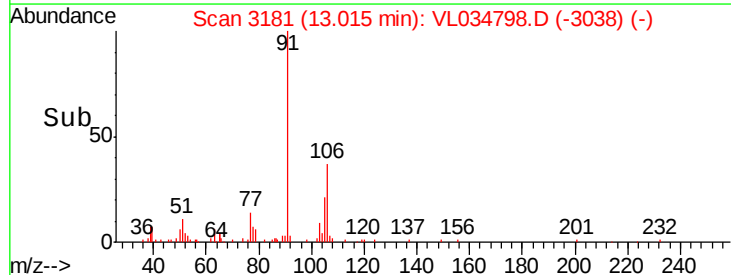
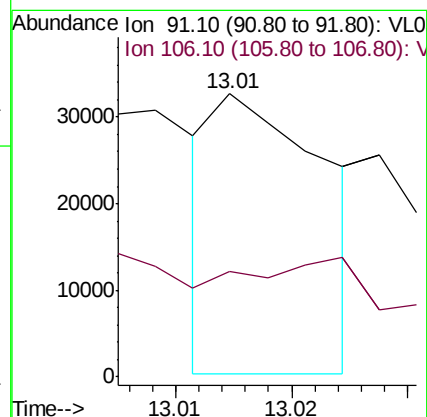
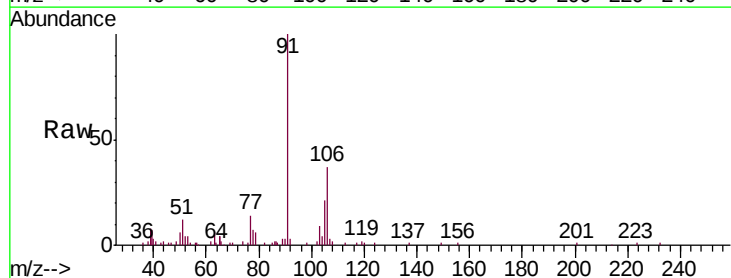
Acq: 5 Mar 2020 16:31

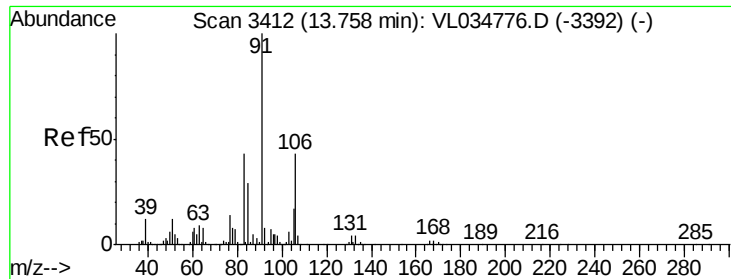
Tgt Ion: 91 Resp: 21430

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.8#

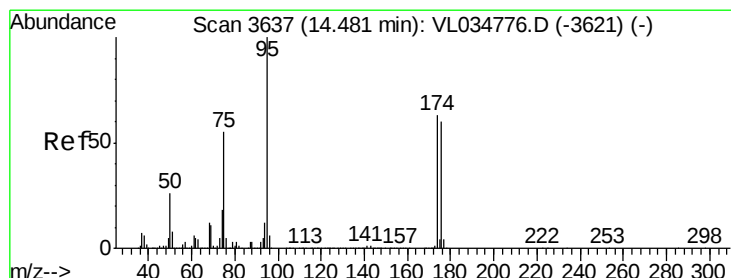
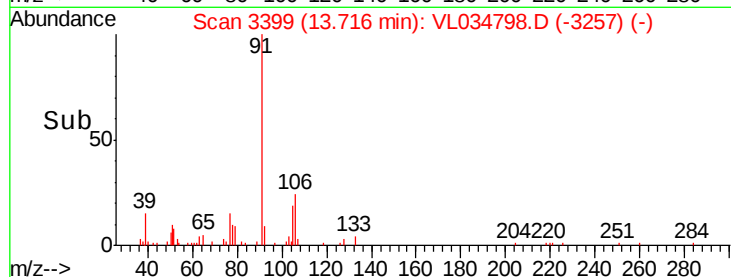
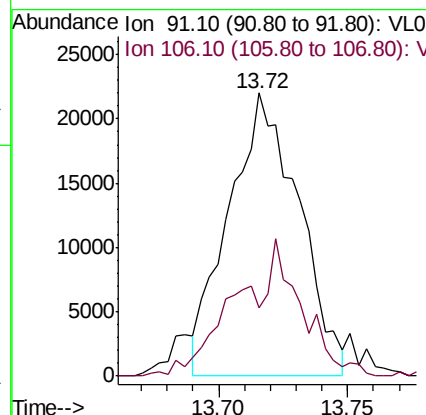
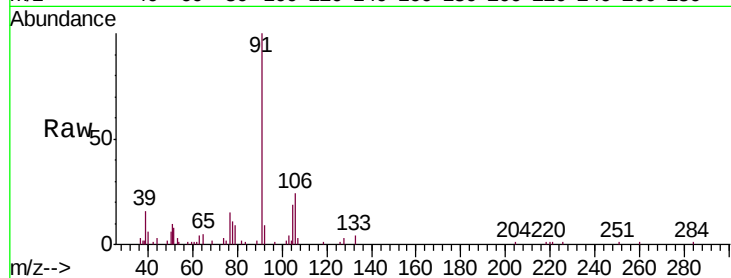




#60
o-Xylene
Concen: 0.192 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.04 min
Lab File: VL034798.D
Acq: 5 Mar 2020 16:31

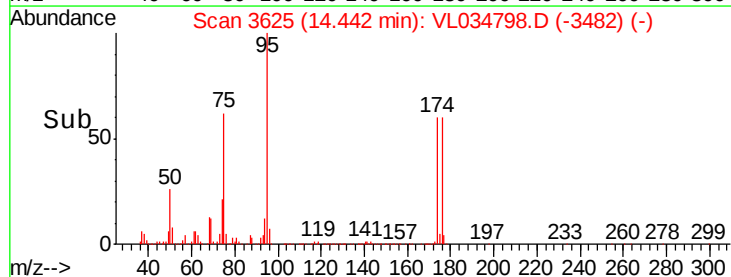
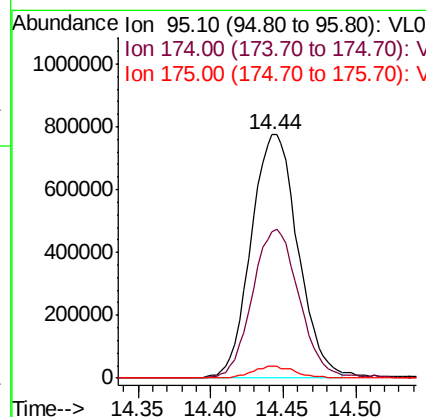
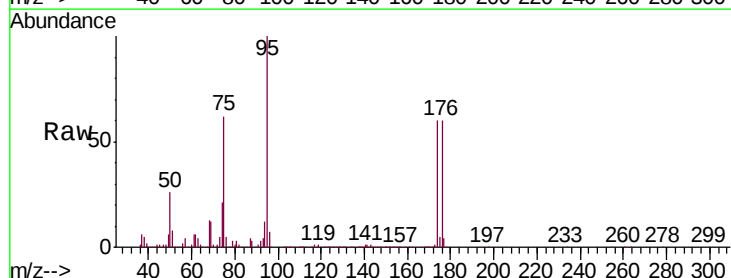
Instrument :
MSVOA_L
ClientSampleId :
A-1-4DUP

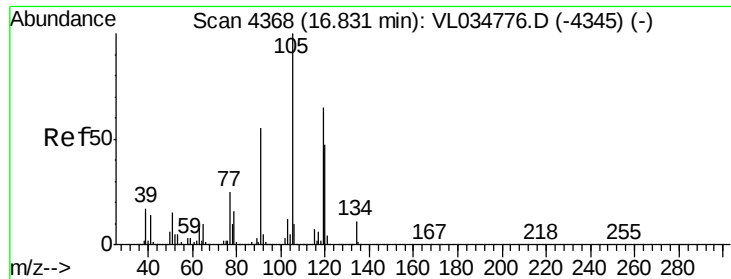
Tgt Ion: 91 Resp: 41691
Ion Ratio Lower Upper
91 100
106 44.8 21.7 65.1



#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

Tgt Ion: 95 Resp: 1742607
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.040 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.04 min

Lab File: VL034798.D

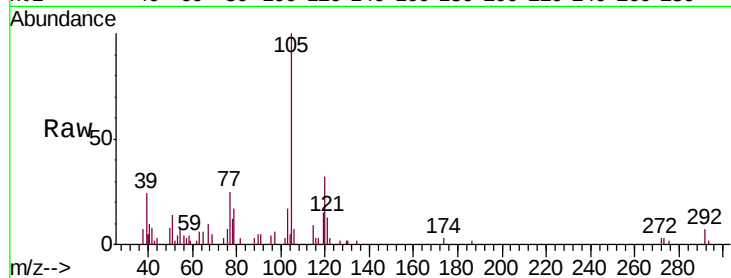
Acq: 5 Mar 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

A-1-4DUP



Tgt Ion:105 Resp: 10081

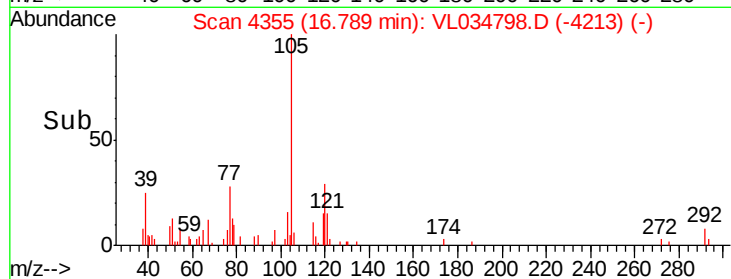
Ion Ratio Lower Upper

105 100

120 32.5 37.8 56.6#

91 0.0 43.8 65.8#

77 29.0 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

