

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034767.D
 Acq On : 3 Mar 2020 17:08
 Operator : SY/AP
 Sample : L1704-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4DL

Quant Time: Mar 04 05:47:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1122808	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2281855	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.15	117	2273302	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1941709	10.42	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

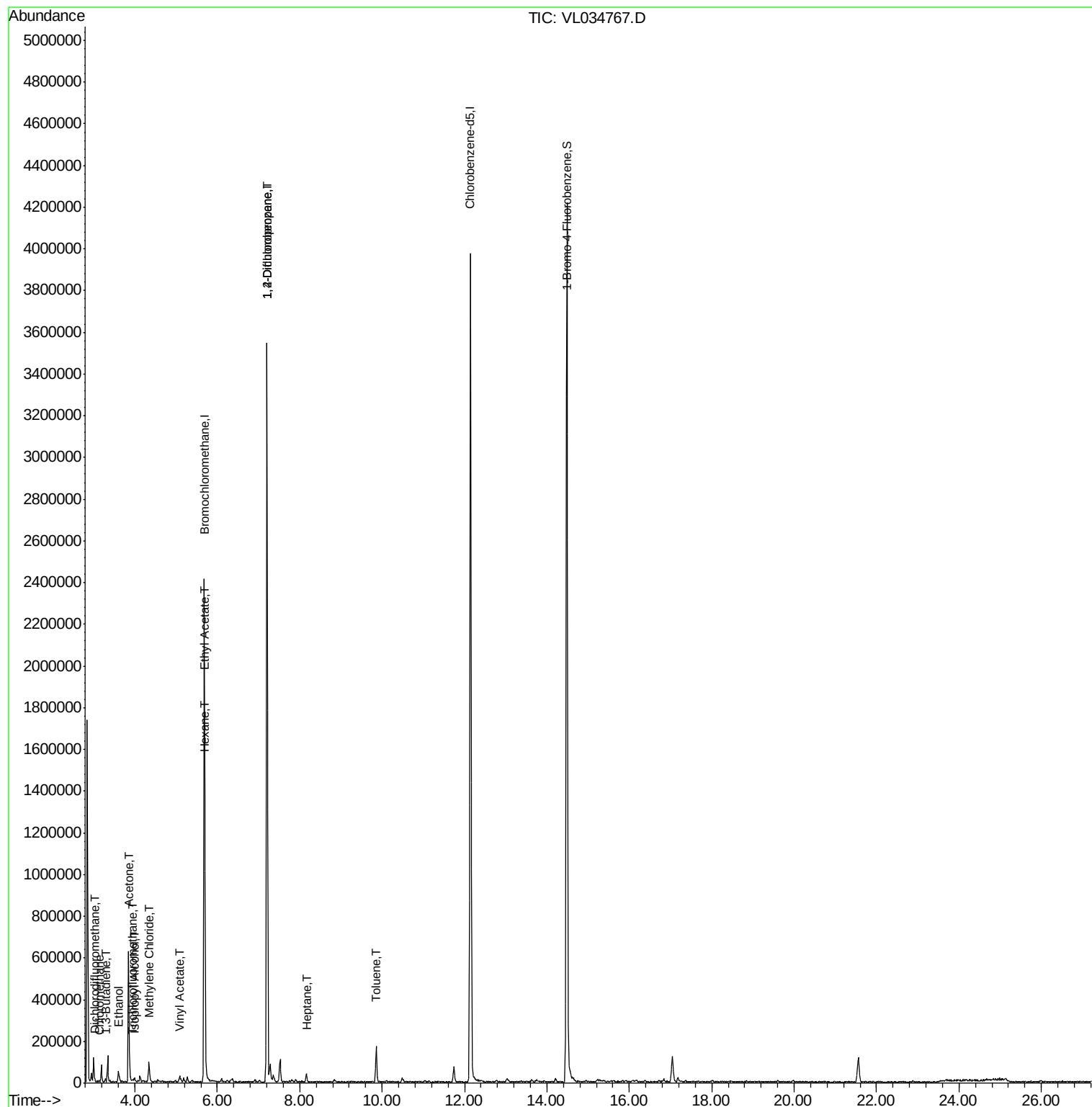
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	9412	0.053	ppbv #	83
4) Chloromethane	3.12	50	2677	0.039	ppbv #	43
10) Heptane	8.16	43	4705	0.036	ppbv #	26
11) Trichlorofluoromethane	3.94	101	3592	0.023	ppbv	100
13) Ethanol	3.60	45	51817	3.238	ppbv	99
15) Acetone	3.84	43	620865	4.853	ppbv	99
16) 1,3-Butadiene	3.29	39	1401	0.024	ppbv #	7
19) Isopropyl Alcohol	3.98	45	8080	0.106	ppbv #	94
20) Methylene Chloride	4.34	84	27368	0.575	ppbv	92
23) Vinyl Acetate	5.08	43	30396	0.175	ppbv #	94
25) Ethyl Acetate	5.70	43	14208	0.063	ppbv #	93
26) Hexane	5.71	57	34054	0.326	ppbv #	40
39) 1,2-Dichloropropane	7.20	63	665141	8.483	ppbv #	24
53) Toluene	9.86	91	124011	0.592	ppbv	98

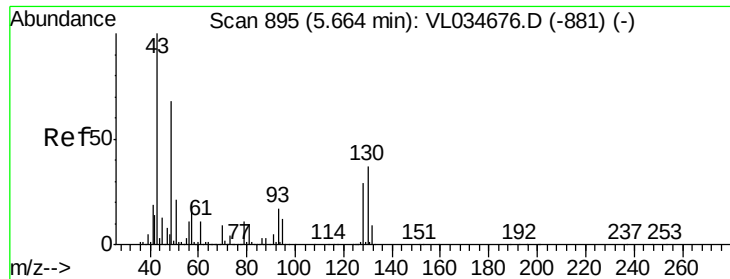
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

IA-6-4DL

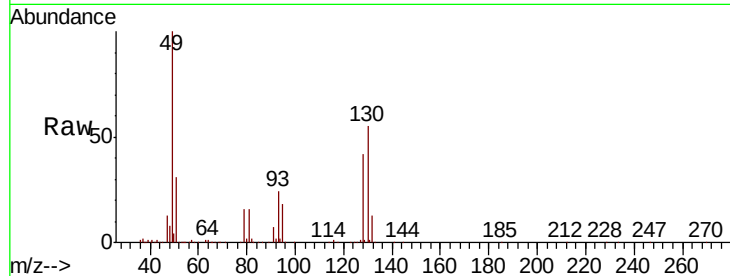
Tot Ion: 49 Resp: 1122808

Ion Ratio Lower Upper

49 100

128 44.1 21.6 65.0

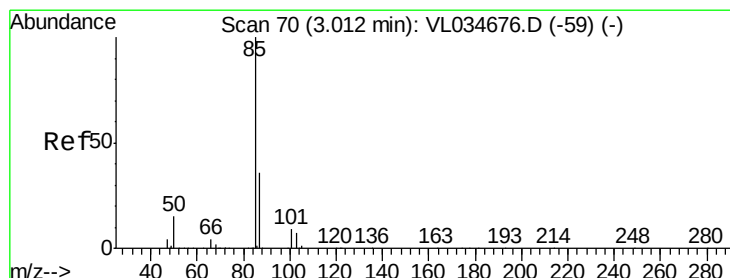
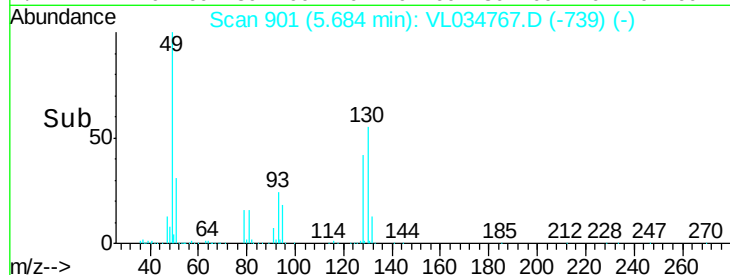
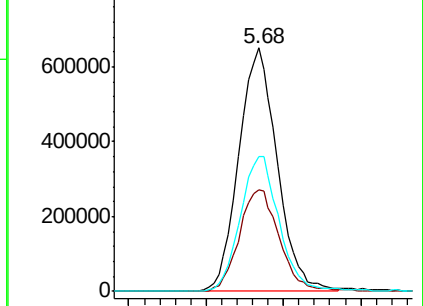
130 56.7 27.7 83.1



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: 0.053 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL034767.D

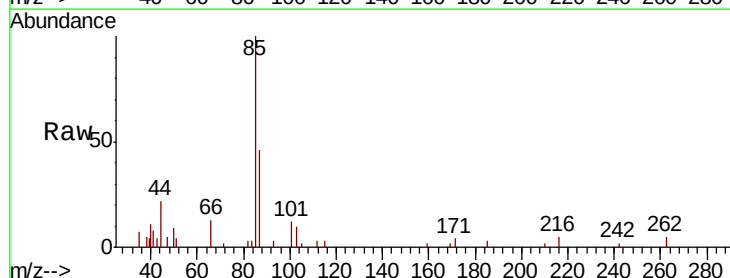
Acq: 3 Mar 2020 17:08

Tgt Ion: 85 Resp: 9412

Ion Ratio Lower Upper

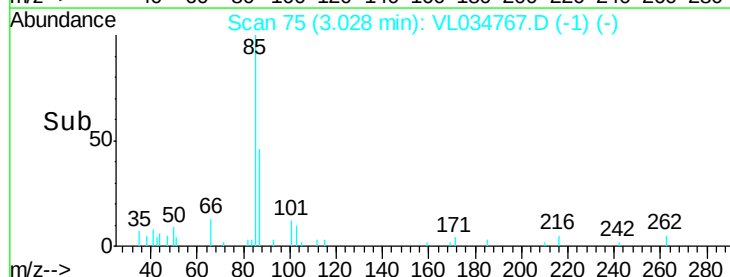
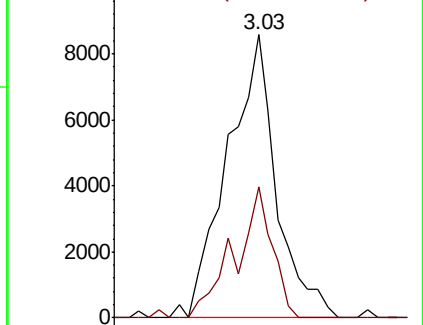
85 100

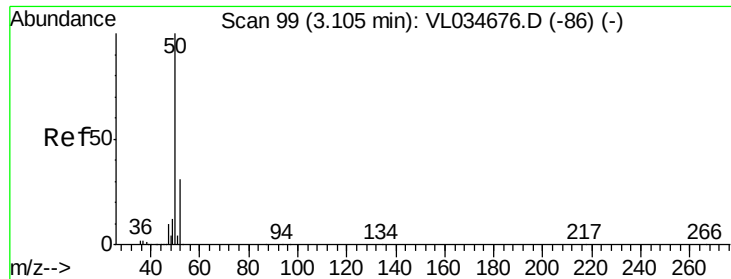
87 46.4 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.01 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

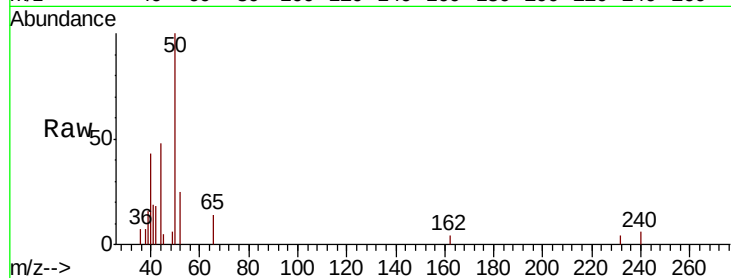
IA-6-4DL

Tot Ion: 50 Resp: 2677

Ion Ratio Lower Upper

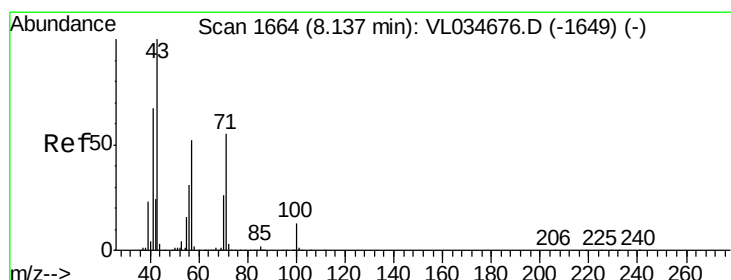
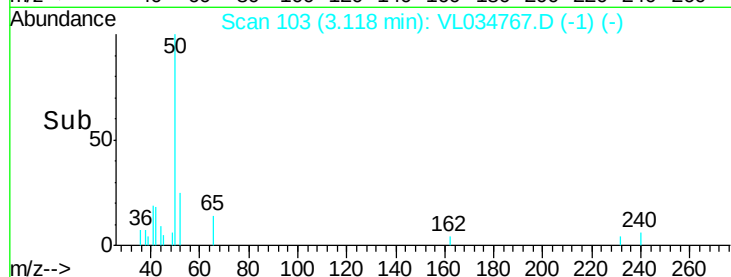
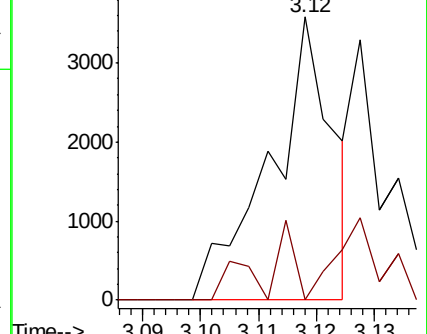
50 100

52 0.0 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#10

Heptane

Concen: 0.036 ppbv

RT: 8.16 min Scan# 1672

Delta R.T. 0.03 min

Lab File: VL034767.D

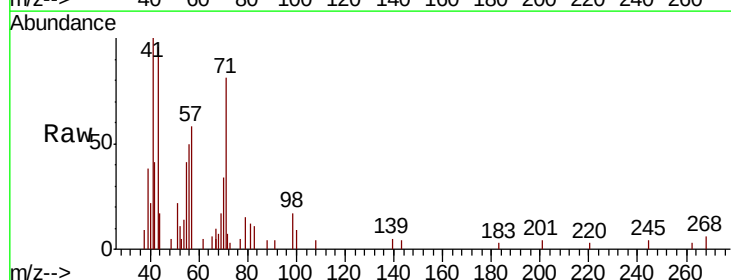
Acq: 3 Mar 2020 17:08

Tgt Ion: 43 Resp: 4705

Ion Ratio Lower Upper

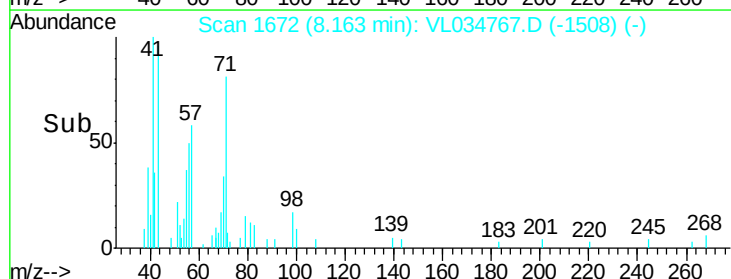
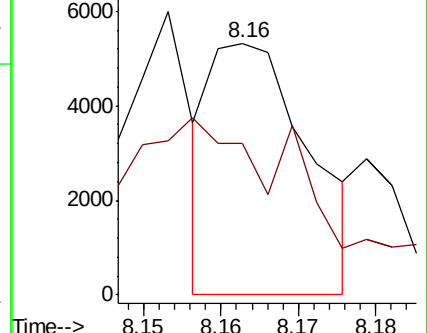
43 100

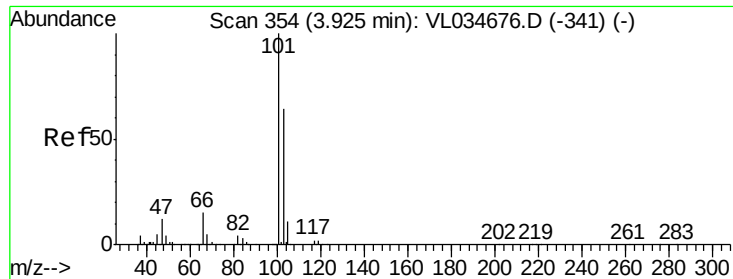
57 0.0 41.0 61.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

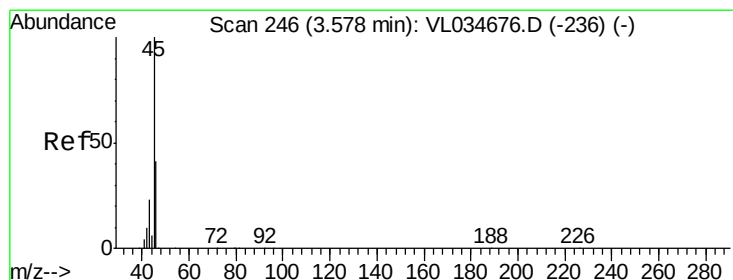
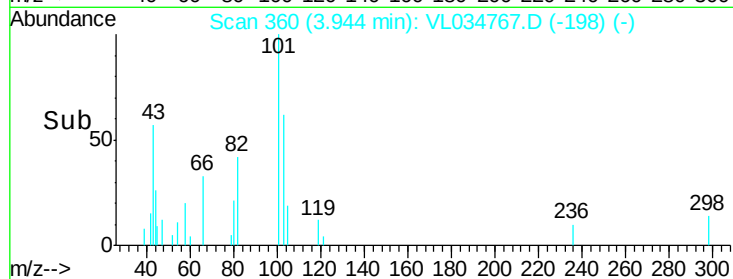
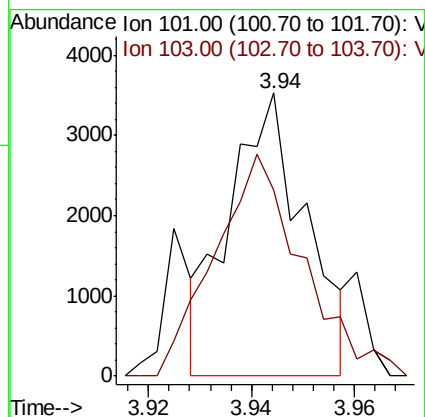
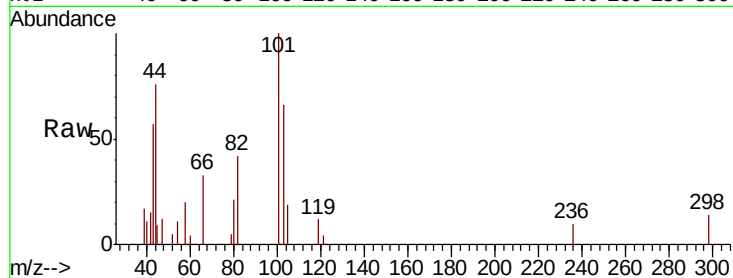




#11
 Trichlorofluoromethane
 Concen: 0.023 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: VL034767.D
 Acq: 3 Mar 2020 17:08

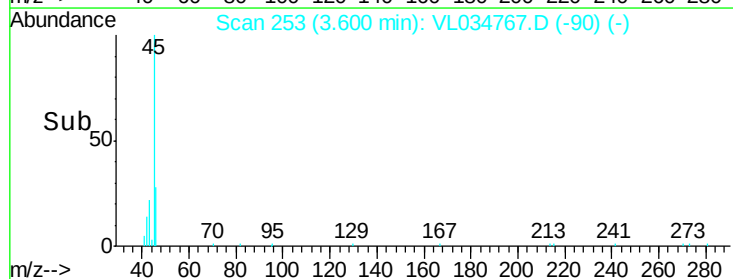
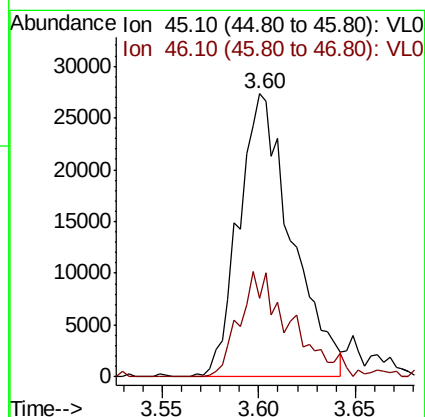
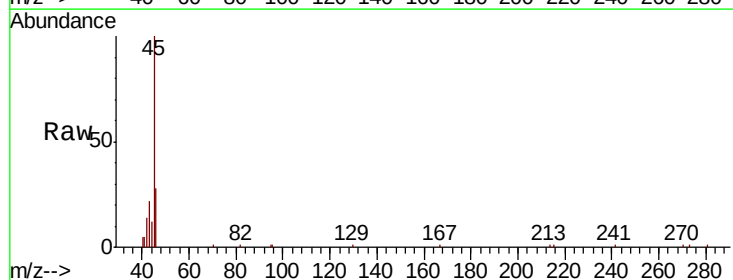
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-6-4DL

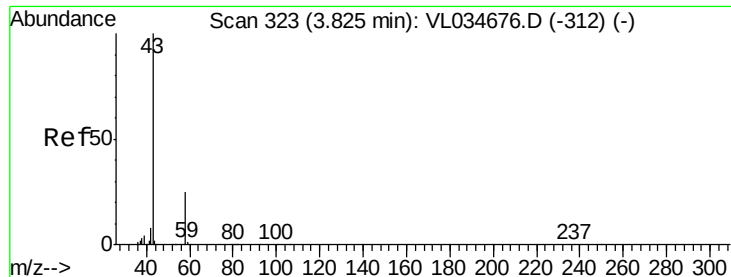
Tot Ion:101 Resp: 3592
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.2 76.8



#13
 Ethanol
 Concen: 3.238 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. 0.02 min
 Lab File: VL034767.D
 Acq: 3 Mar 2020 17:08

Tgt Ion: 45 Resp: 51817
 Ion Ratio Lower Upper
 45 100
 46 37.6 15.4 61.4





#15

Acetone

Concen: 4.853 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.02 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

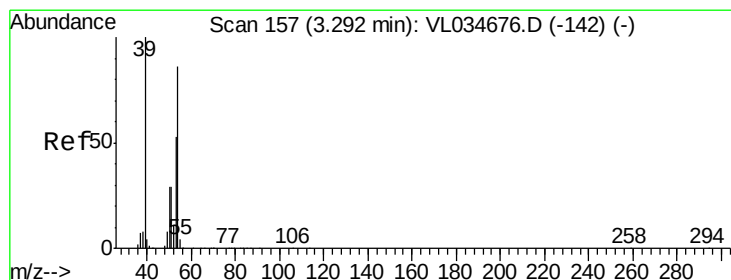
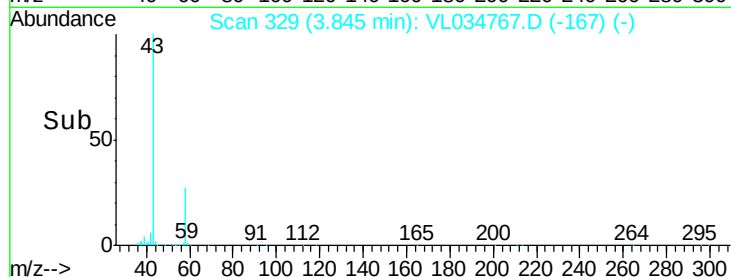
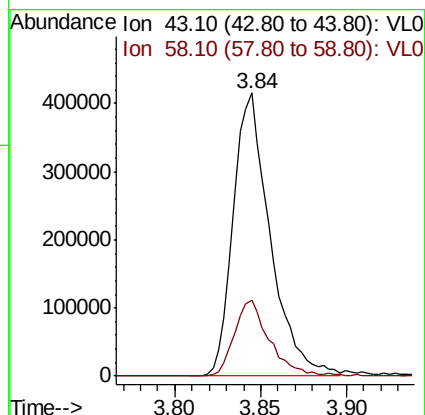
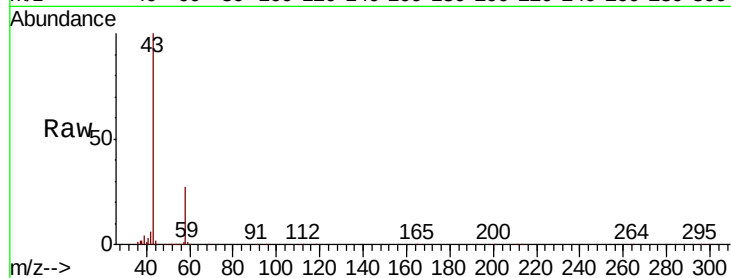
IA-6-4DL

Tot Ion: 43 Resp: 620865

Ion Ratio Lower Upper

43 100

58 26.1 21.4 32.0



#16

1,3-Butadiene

Concen: 0.024 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034767.D

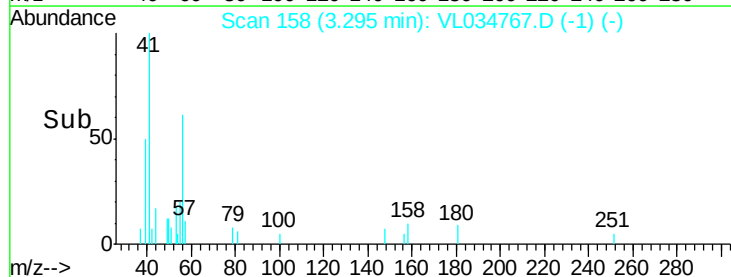
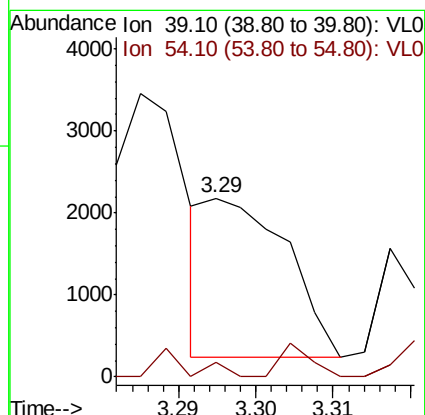
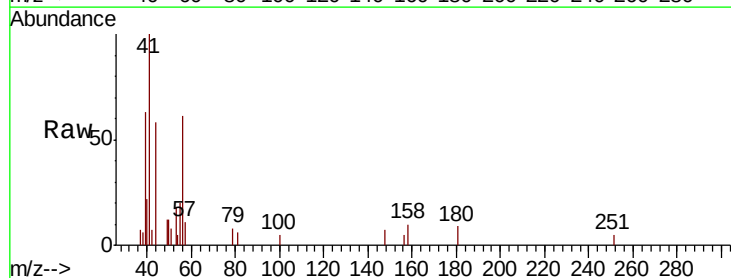
Acq: 3 Mar 2020 17:08

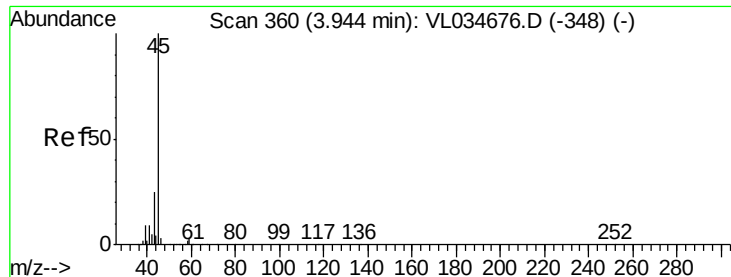
Tgt Ion: 39 Resp: 1401

Ion Ratio Lower Upper

39 100

54 0.0 67.0 100.6#





#19

Isopropyl Alcohol

Concen: 0.106 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.04 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

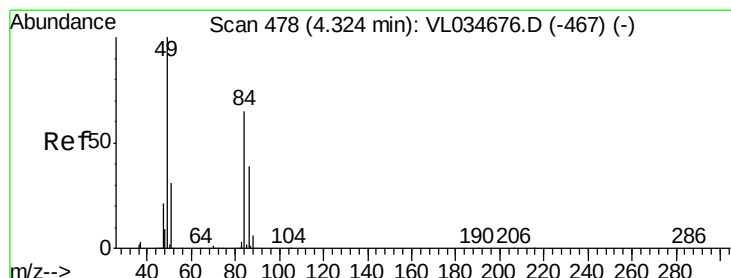
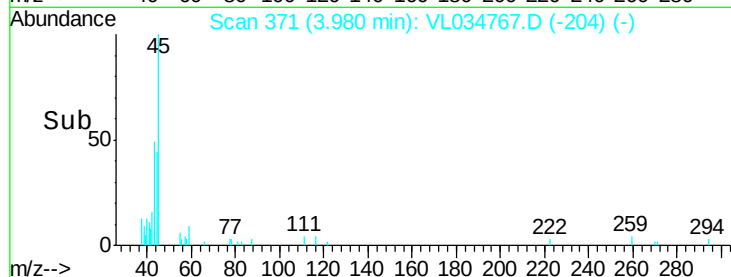
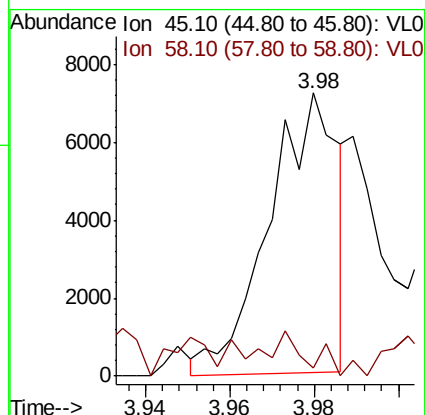
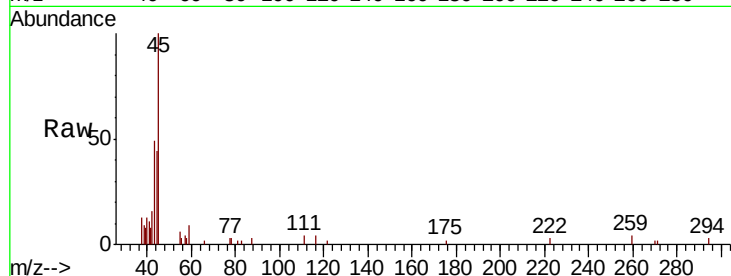
IA-6-4DL

Tot Ion: 45 Resp: 8080

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.575 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.02 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Tgt Ion: 84 Resp: 27368

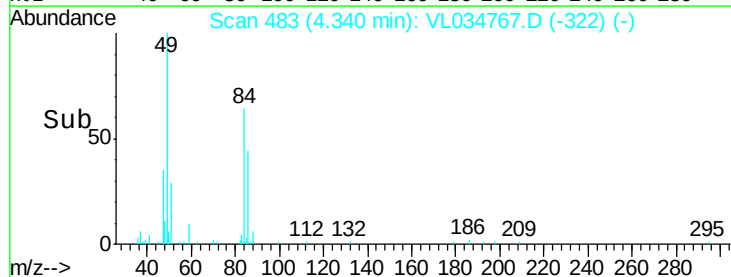
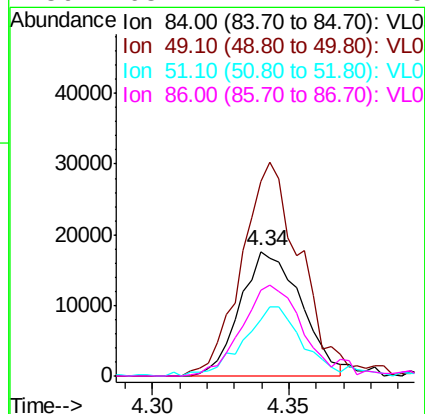
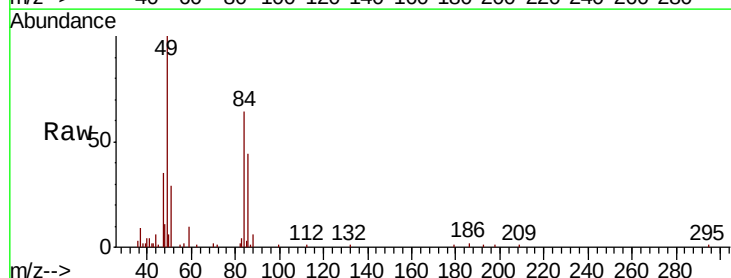
Ion Ratio Lower Upper

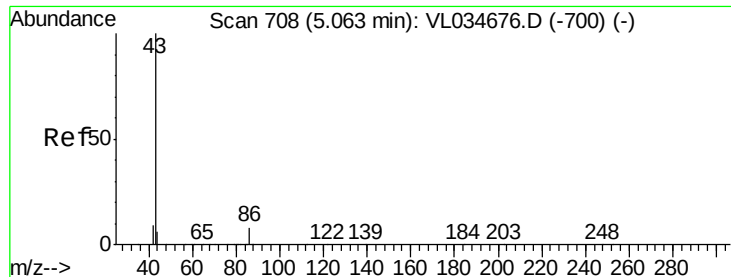
84 100

49 162.2 122.8 184.2

51 41.9 38.6 58.0

86 68.1 47.7 71.5





#23

Vinyl Acetate

Concen: 0.175 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.02 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

IA-6-4DL

Tot Ion: 43 Resp: 30396

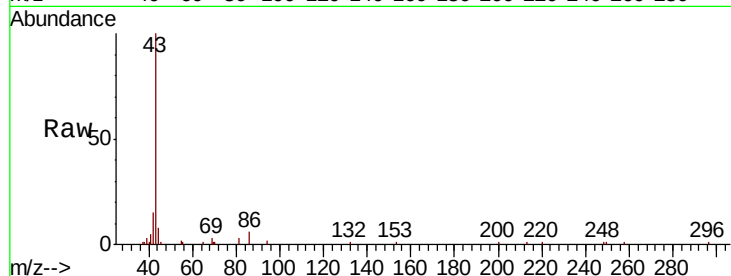
Ion Ratio Lower Upper

43 100

86 6.5 6.0 9.0

42 13.7 8.0 12.0#

44 4.5 4.5 6.7

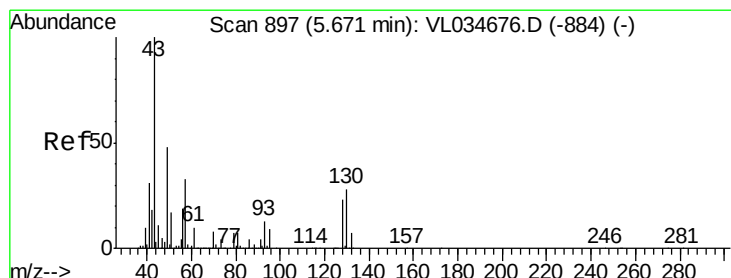
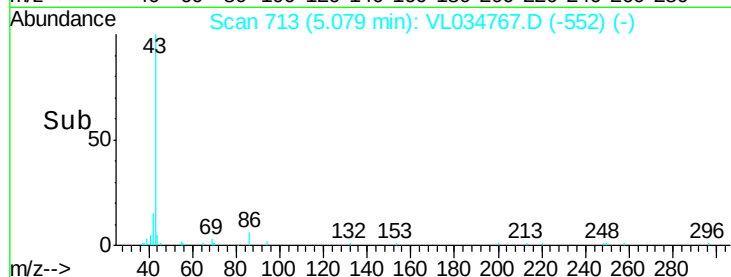
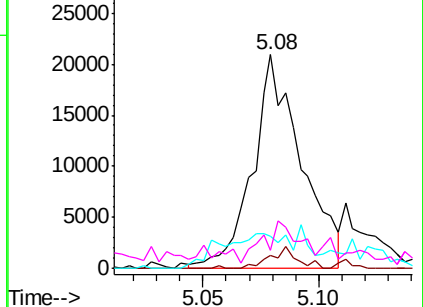


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.063 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Tgt Ion: 43 Resp: 14208

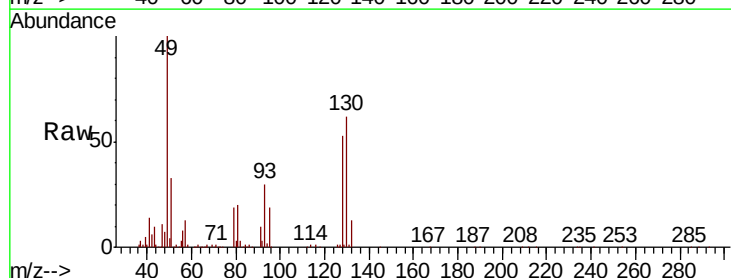
Ion Ratio Lower Upper

43 100

45 9.9 8.2 12.4

61 3.8 7.8 11.6#

70 6.5 6.1 9.1

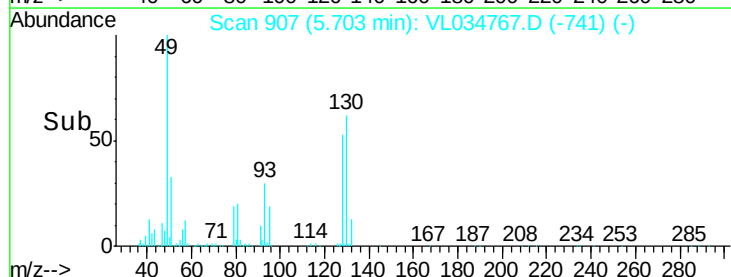
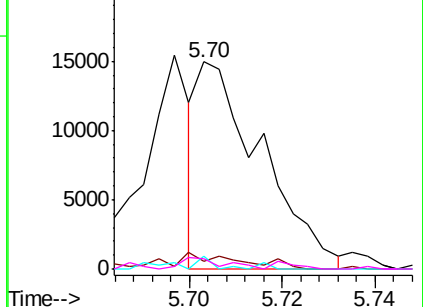


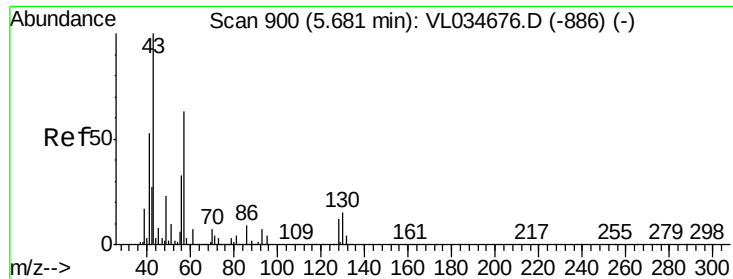
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

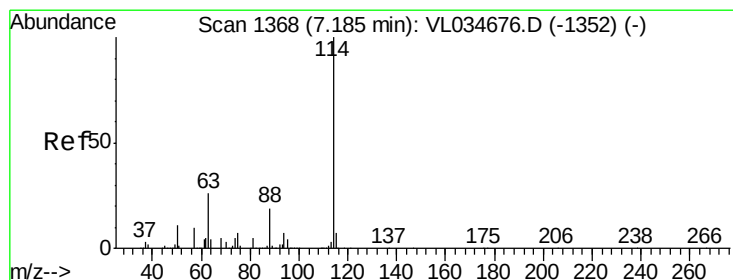
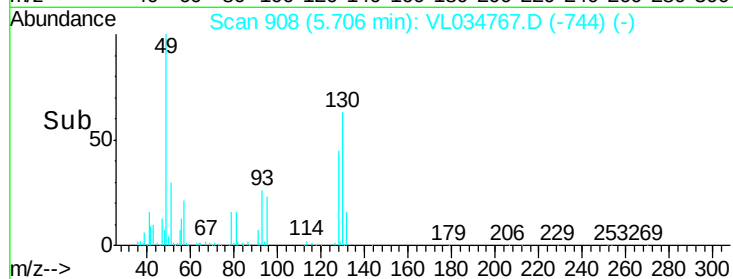
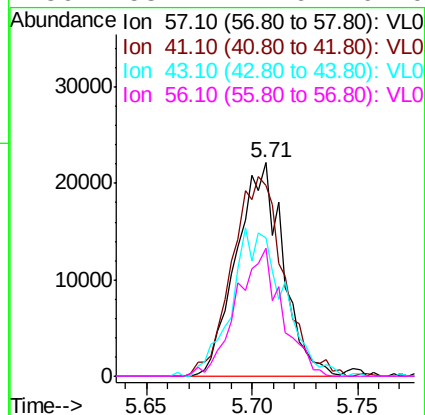
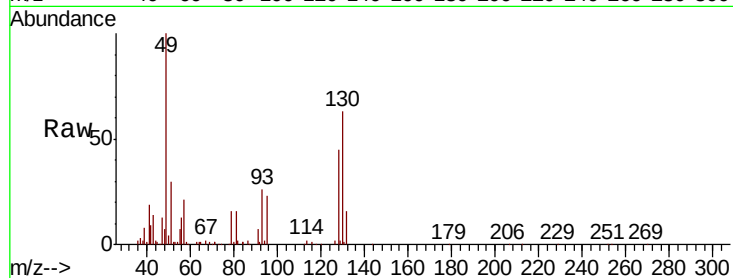




#26
Hexane
Concen: 0.326 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL034767.D
Acq: 3 Mar 2020 17:08

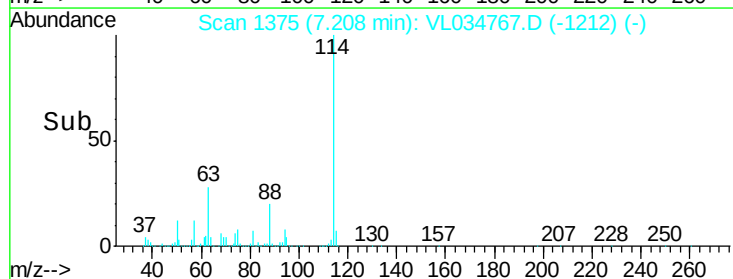
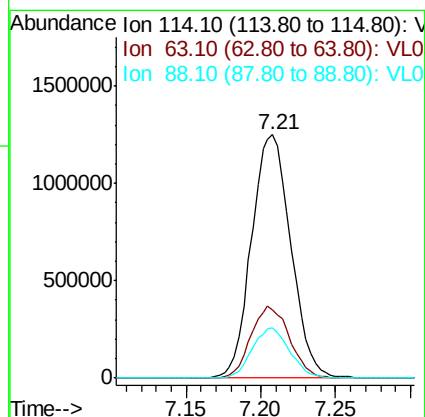
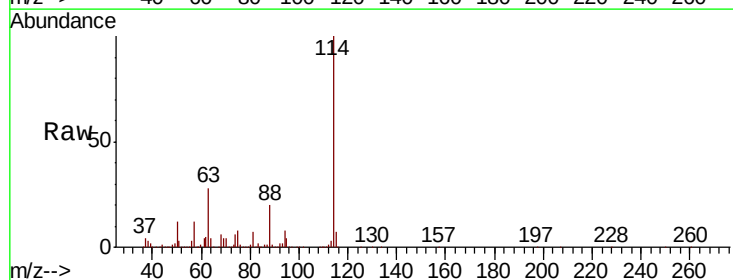
Instrument :
MSVOA_L
ClientSampleId :
IA-6-4DL

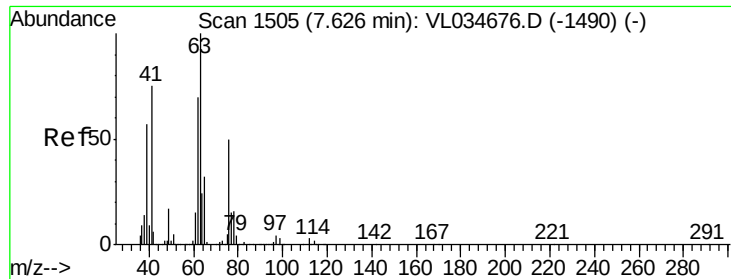
Tot Ion: 57 Resp: 34054
Ion Ratio Lower Upper
57 100
41 103.4 70.3 105.5
43 77.2 177.0 265.4#
56 58.2 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. 0.02 min
Lab File: VL034767.D
Acq: 3 Mar 2020 17:08

Tgt Ion: 114 Resp: 2281855
Ion Ratio Lower Upper
114 100
63 29.2 22.9 34.3
88 19.9 15.8 23.6





#39

1,2-Dichloropropane

Concen: 8.483 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.42 min

Lab File: VL034767.D

Acq: 3 Mar 2020 17:08

Instrument :

MSVOA_L

ClientSampleId :

IA-6-4DL

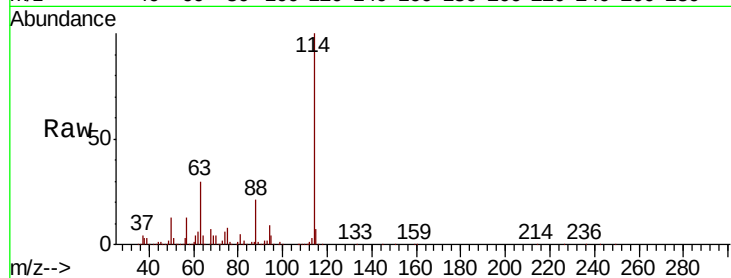
Tot Ion: 63 Resp: 665141

Ion Ratio Lower Upper

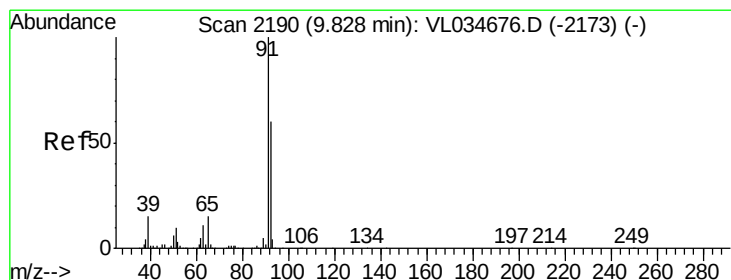
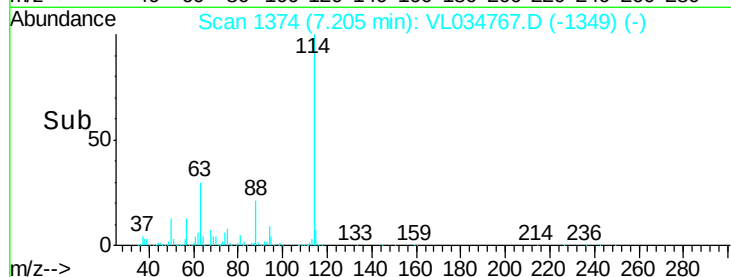
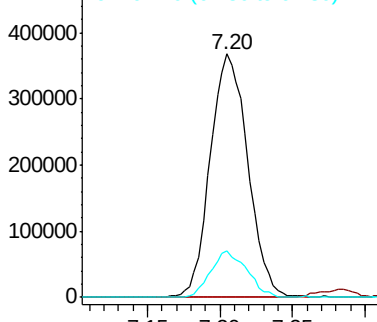
63 100

41 0.0 60.2 90.4#

62 19.0 56.3 84.5#



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: 0.592 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.03 min

Lab File: VL034767.D

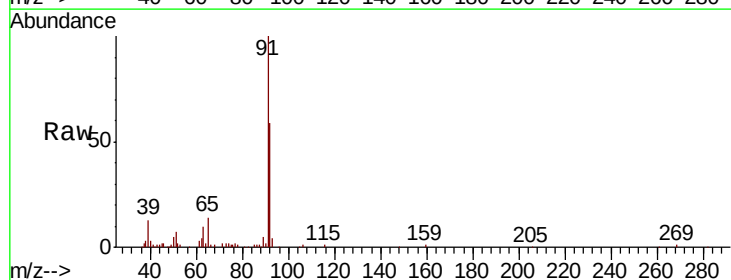
Acq: 3 Mar 2020 17:08

Tgt Ion: 91 Resp: 124011

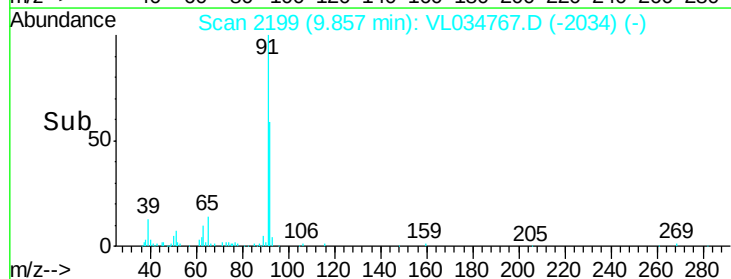
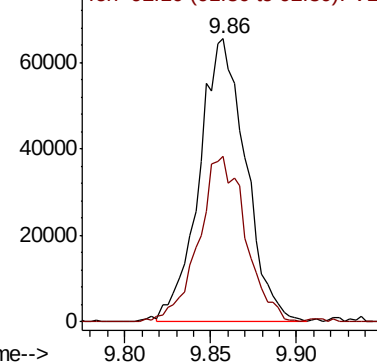
Ion Ratio Lower Upper

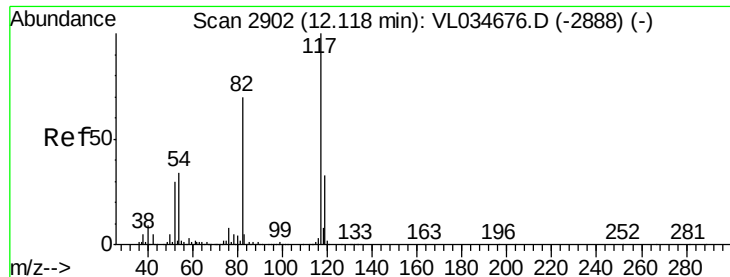
91 100

92 59.1 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

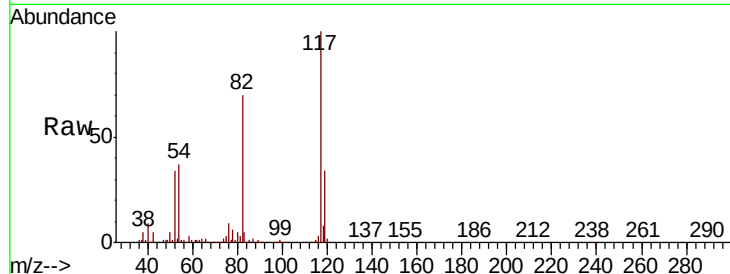




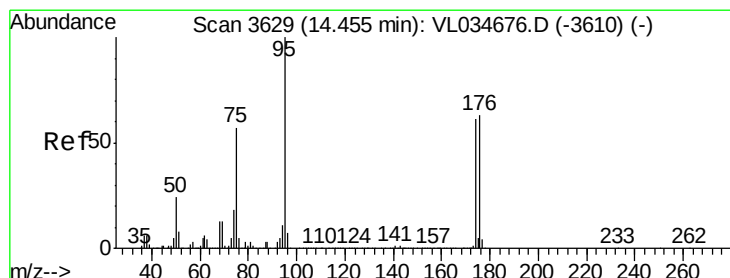
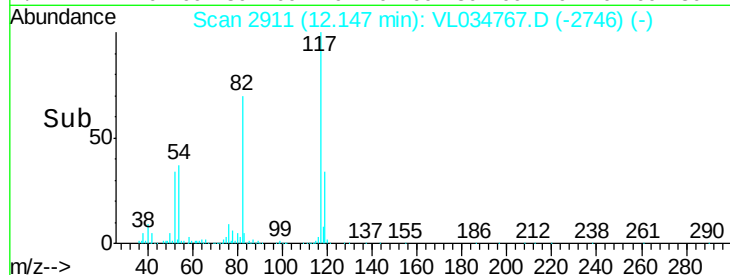
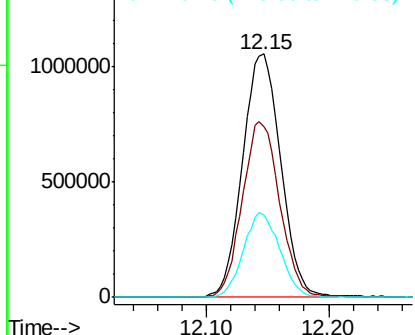
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. 0.03 min
Lab File: VL034767.D
Acq: 3 Mar 2020 17:08

Instrument :
MSVOA_L
ClientSampleId :
IA-6-4DL

Tot Ion:117 Resp: 2273302
Ion Ratio Lower Upper
117 100
82 71.2 54.1 81.1
119 33.4 27.6 41.4

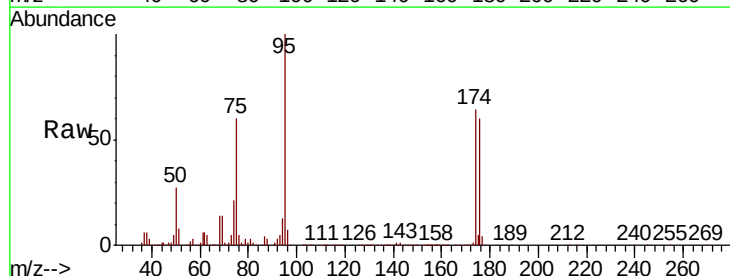


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.417 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.03 min
Lab File: VL034767.D
Acq: 3 Mar 2020 17:08

Tgt Ion: 95 Resp: 1941709
Ion Ratio Lower Upper
95 100
174 63.2 50.7 76.1
175 4.7 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

