

Data File : VL034614.D
Acq On : 7 Feb 2020 9:33
Operator : SY/AP
Sample : L1435-05DL 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

Quant Time: Feb 08 01:42:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	889062	10.00	ppbv	0.06
33) 1,4-Difluorobenzene	7.25	114	1860394	10.00	ppbv	0.06
55) Chlorobenzene-d5	12.19	117	1899938	10.00	ppbv	0.08

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.53 95 1653045 10.29 ppbv 0.08
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.90%

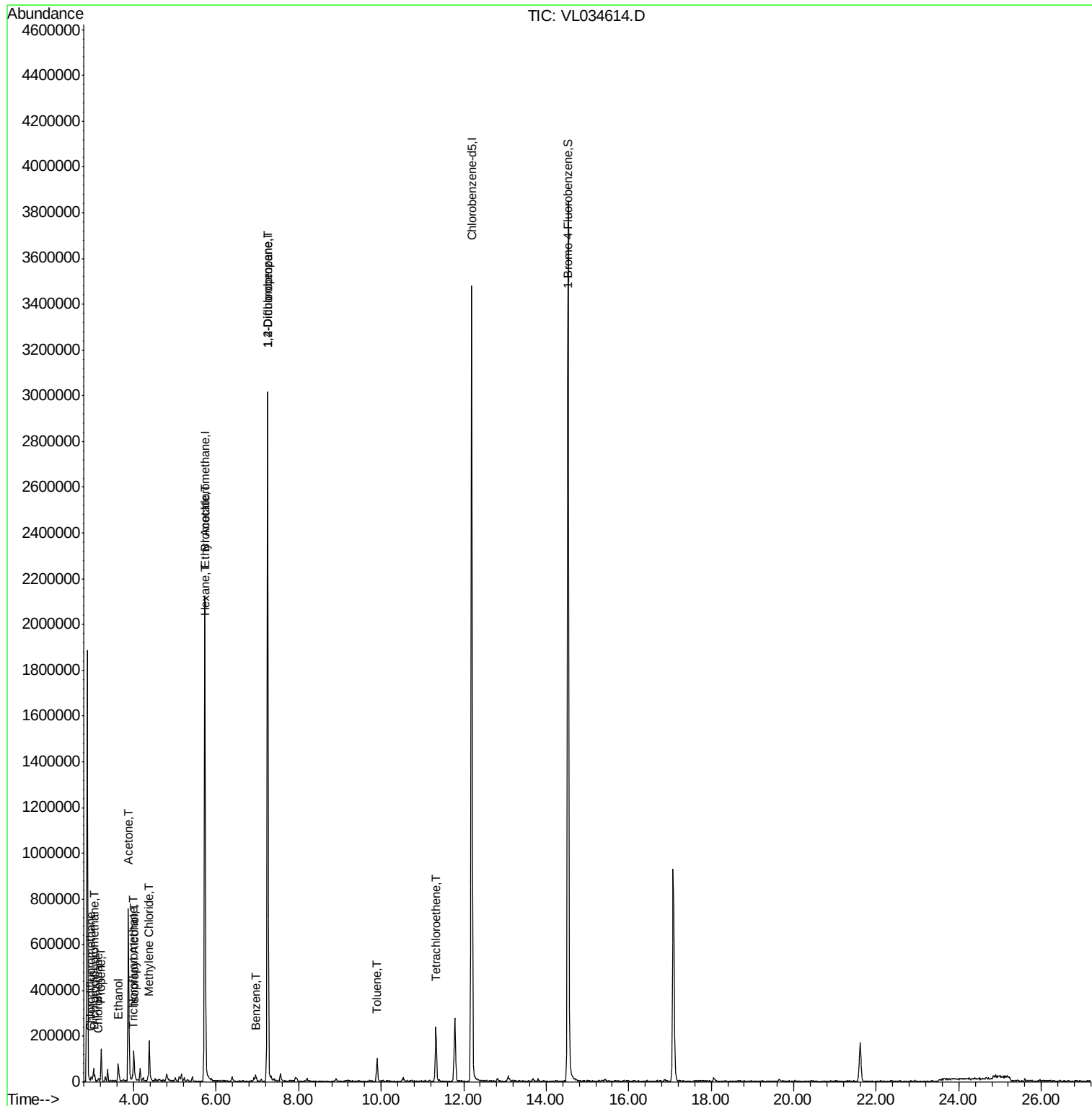
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	17665	0.090 ppbv	90
3) Chlorodifluoromethane	2.96	51	18426	0.172 ppbv #	80
4) Chloromethane	3.14	50	2344	0.036 ppbv #	39
9) Propene	3.21	41	33968	0.812 ppbv	95
11) Trichlorofluoromethane	3.97	101	13964	0.078 ppbv #	77
13) Ethanol	3.62	45	41871	3.737 ppbv #	48
15) Acetone	3.87	43	750350	5.743 ppbv	99
19) Isopropyl Alcohol	4.00	45	115748	1.518 ppbv #	88
20) Methylene Chloride	4.38	84	55846	1.122 ppbv	94
25) Ethyl Acetate	5.74	43	16688	0.079 ppbv #	96
26) Hexane	5.74	57	25072	0.283 ppbv #	47
36) Benzene	6.96	78	5092	0.031 ppbv #	65
39) 1,2-Dichloropropane	7.25	63	563628	8.218 ppbv #	19
52) Tetrachloroethene	11.33	164	25647	0.386 ppbv	83
53) Toluene	9.90	91	68985	0.380 ppbv	99

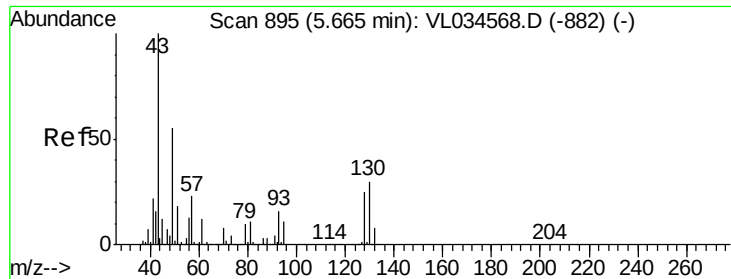
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 08 01:42:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

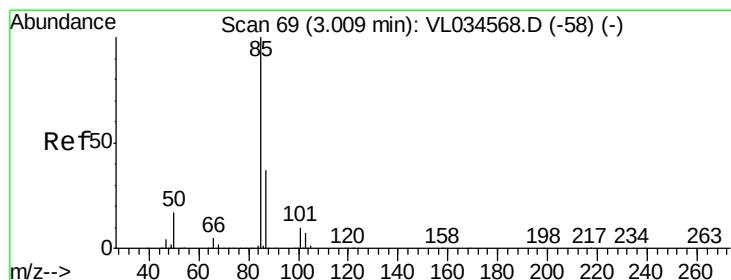
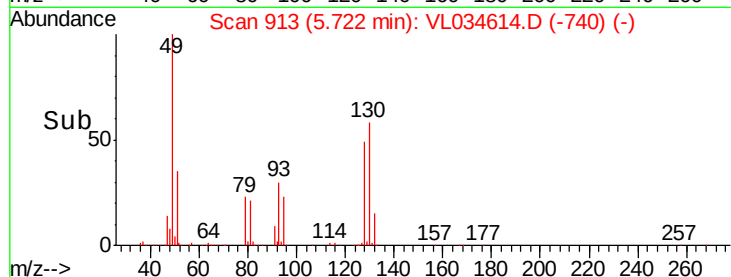
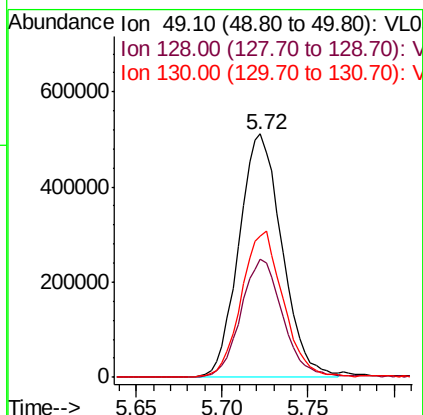
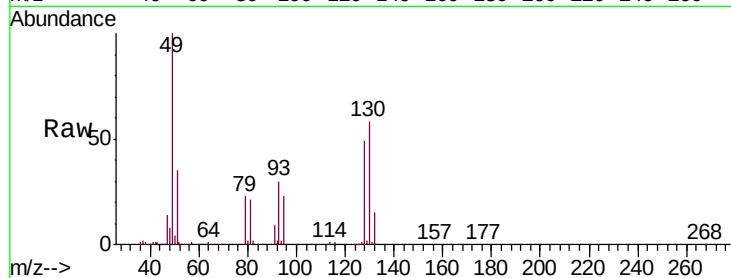




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.72 min Scan# 913
Delta R.T. 0.06 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

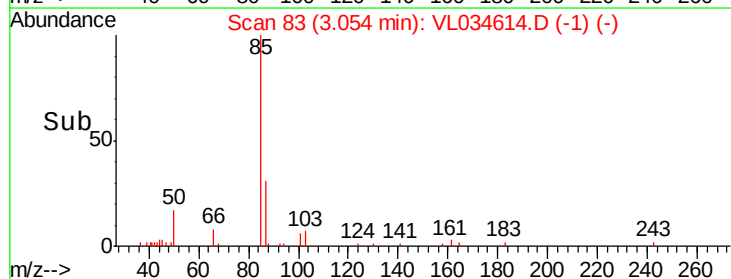
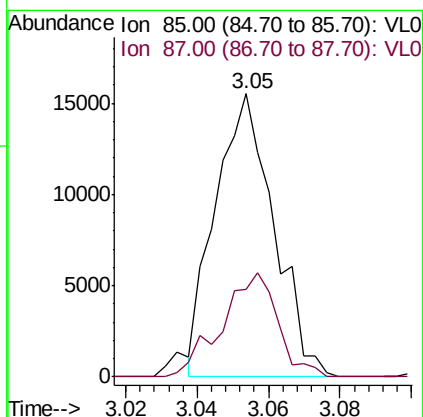
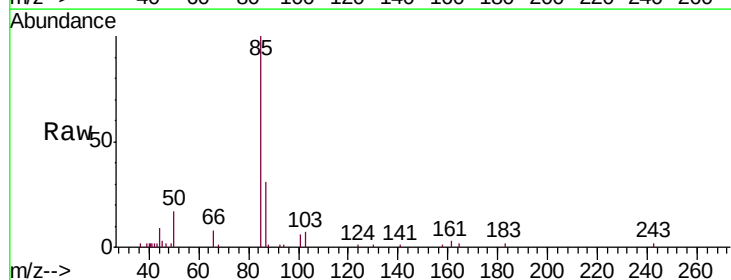
Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

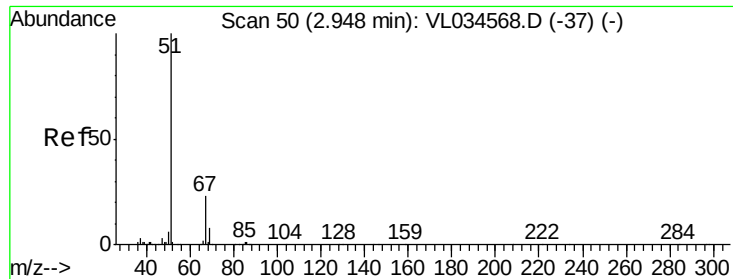
Tgt Ion: 49 Resp: 889062
Ion Ratio Lower Upper
49 100
128 47.5 22.7 68.1
130 59.0 28.6 85.8



#2
Dichlorodifluoromethane
Concen: 0.090 ppbv
RT: 3.05 min Scan# 83
Delta R.T. 0.04 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

Tgt Ion: 85 Resp: 17665
Ion Ratio Lower Upper
85 100
87 31.1 29.5 44.3





#3

Chlorodifluoromethane

Concen: 0.172 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.02 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

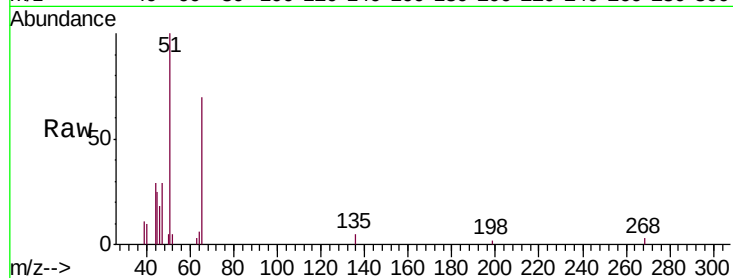
IA-5DL

Tgt Ion: 51 Resp: 18426

Ion Ratio Lower Upper

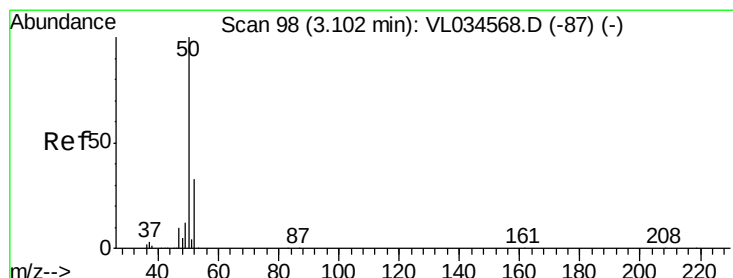
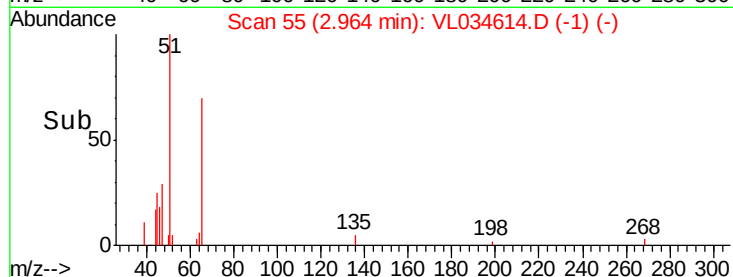
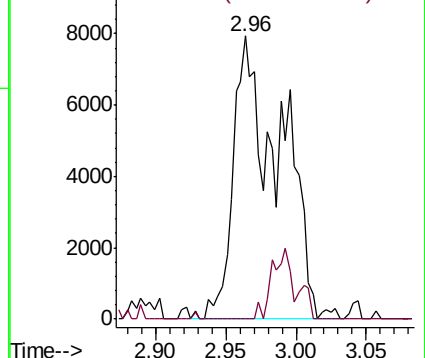
51 100

67 12.6 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.04 min

Lab File: VL034614.D

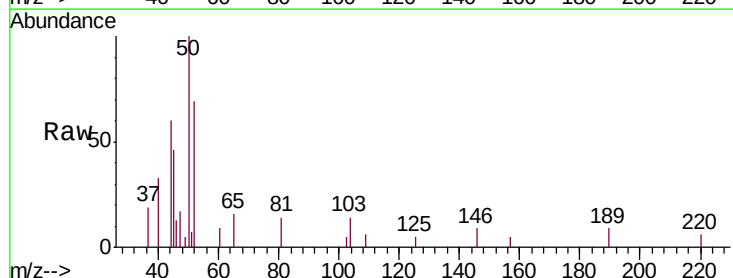
Acq: 7 Feb 2020 9:33

Tgt Ion: 50 Resp: 2344

Ion Ratio Lower Upper

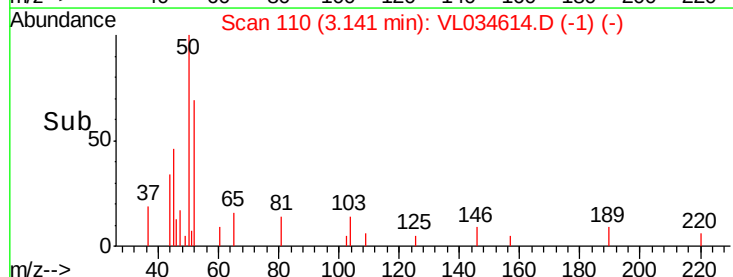
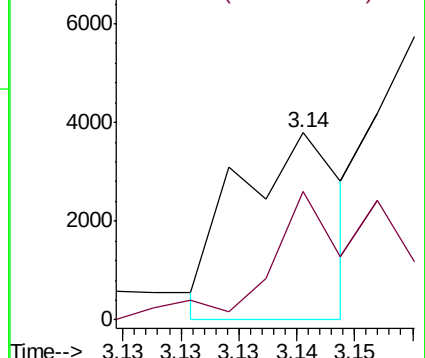
50 100

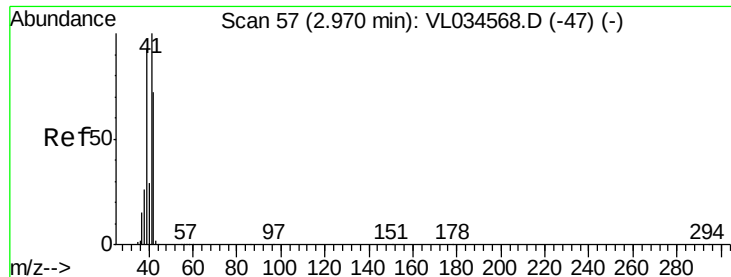
52 67.6 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.812 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.24 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

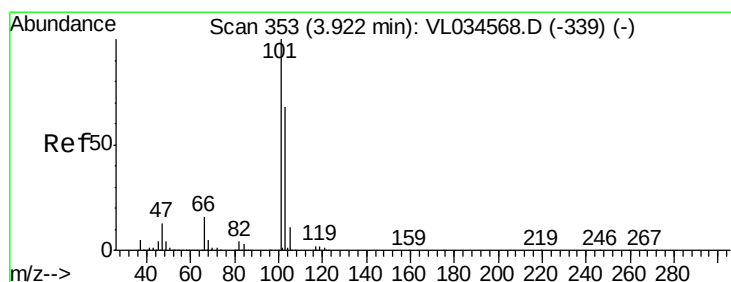
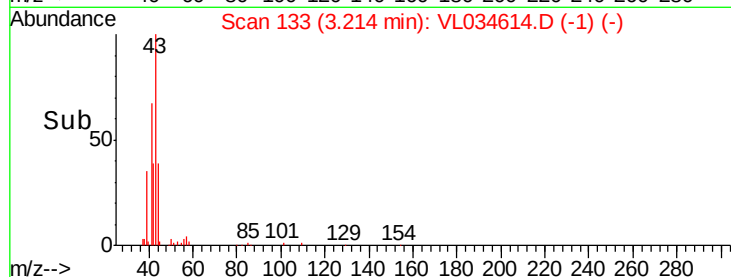
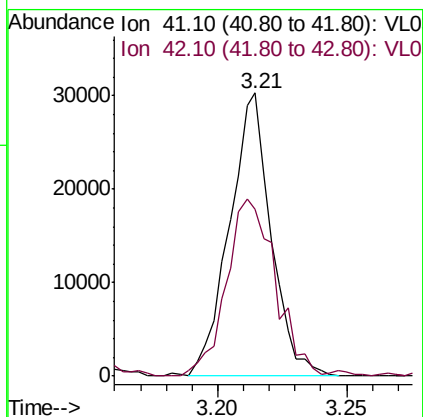
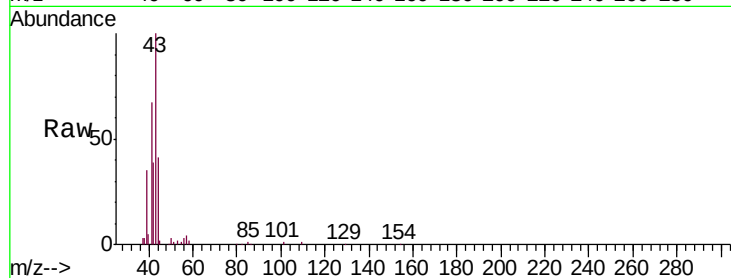
IA-5DL

Tgt Ion: 41 Resp: 33968

Ion Ratio Lower Upper

41 100

42 75.4 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.078 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.05 min

Lab File: VL034614.D

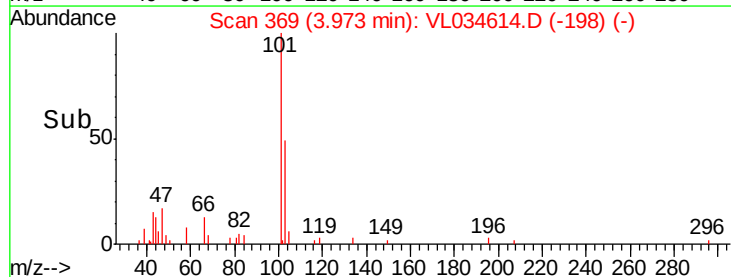
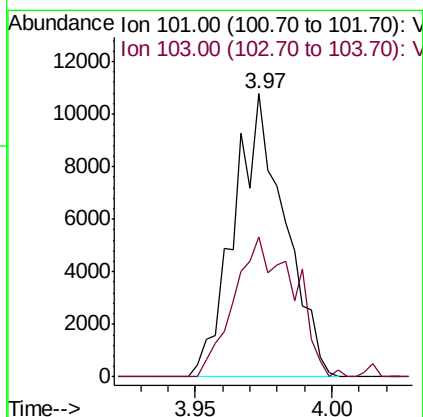
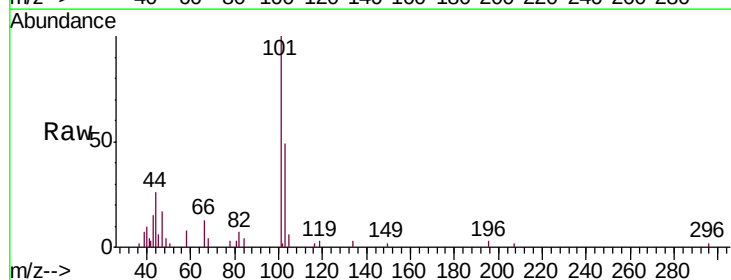
Acq: 7 Feb 2020 9:33

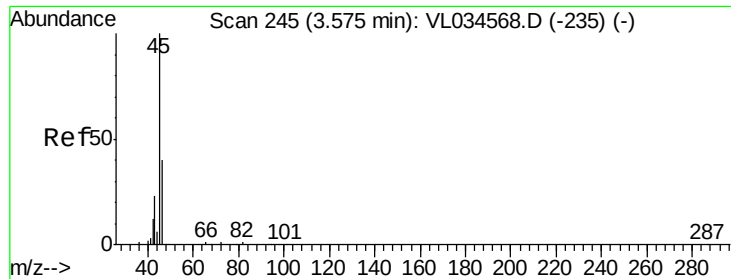
Tgt Ion: 101 Resp: 13964

Ion Ratio Lower Upper

101 100

103 49.5 54.4 81.6#

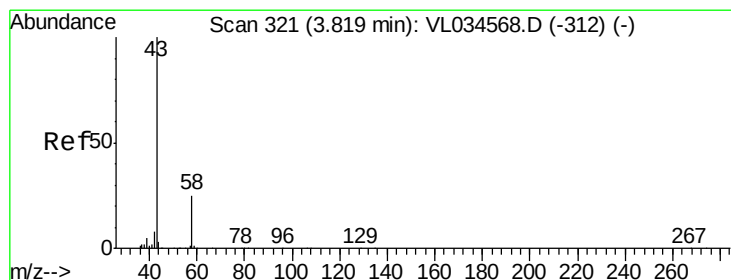
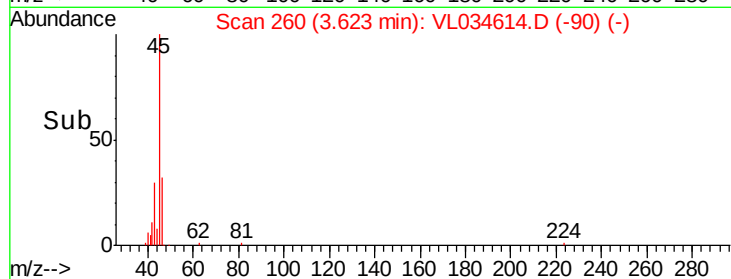
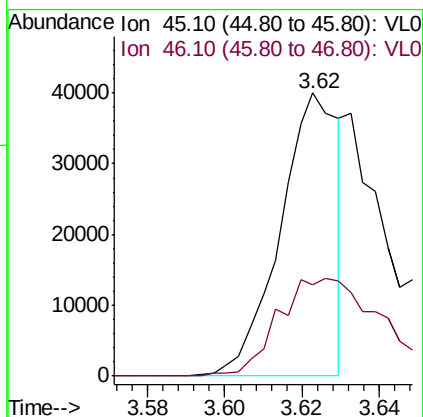
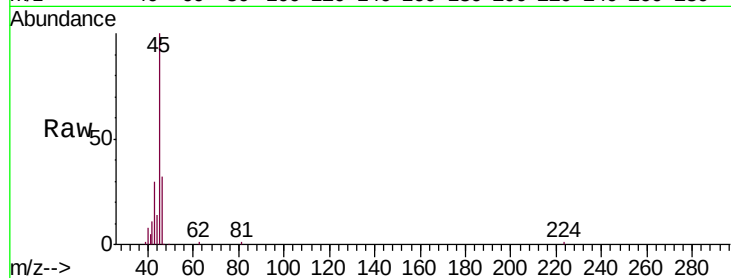




#13
Ethanol
Concen: 3.737 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.05 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

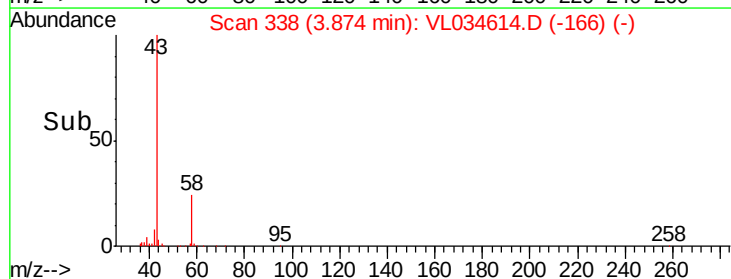
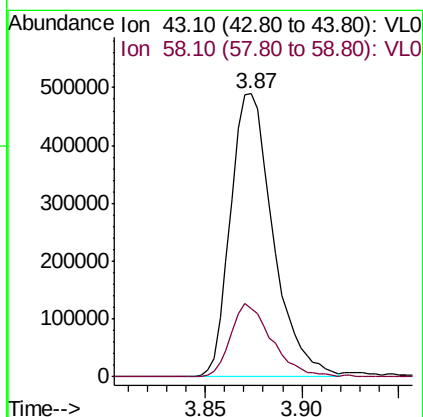
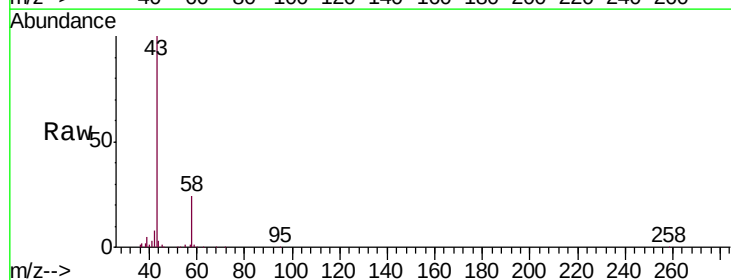
Instrument :
MSVOA_L
ClientSampleId :
IA-5DL

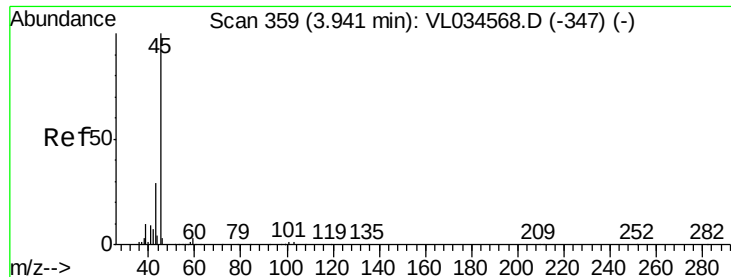
Tgt Ion: 45 Resp: 41871
Ion Ratio Lower Upper
45 100
46 67.8 14.8 59.2#



#15
Acetone
Concen: 5.743 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.05 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

Tgt Ion: 43 Resp: 750350
Ion Ratio Lower Upper
43 100
58 25.0 20.3 30.5





#19

Isopropyl Alcohol

Concen: 1.518 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.06 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

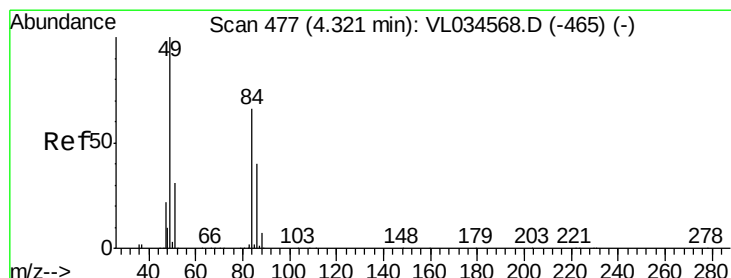
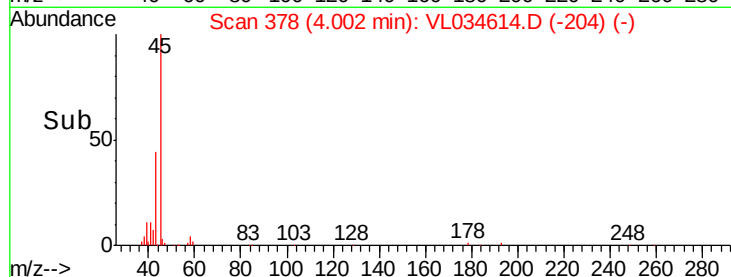
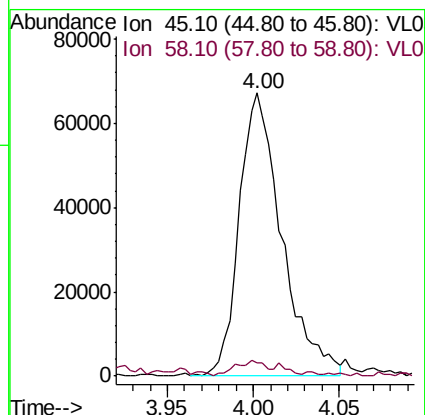
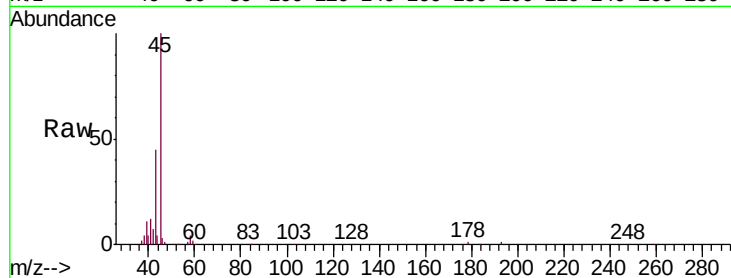
IA-5DL

Tgt Ion: 45 Resp: 115748

Ion Ratio Lower Upper

45 100

58 6.3 1.7 2.5#



#20

Methylene Chloride

Concen: 1.122 ppbv

RT: 4.38 min Scan# 494

Delta R.T. 0.05 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Tgt Ion: 84 Resp: 55846

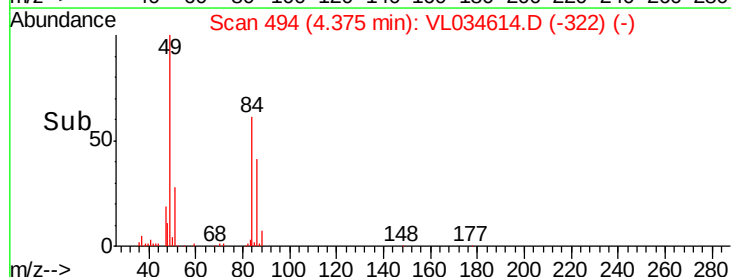
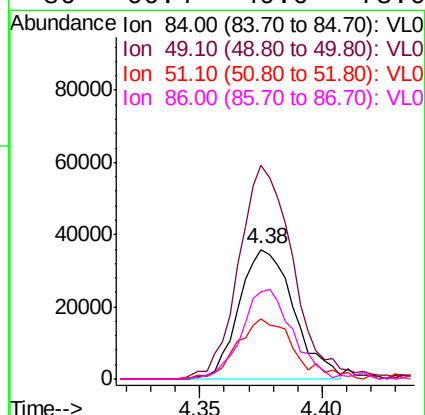
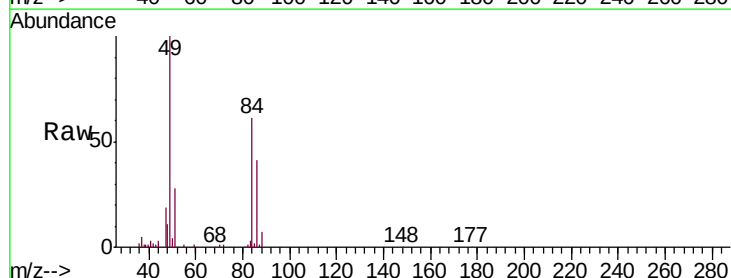
Ion Ratio Lower Upper

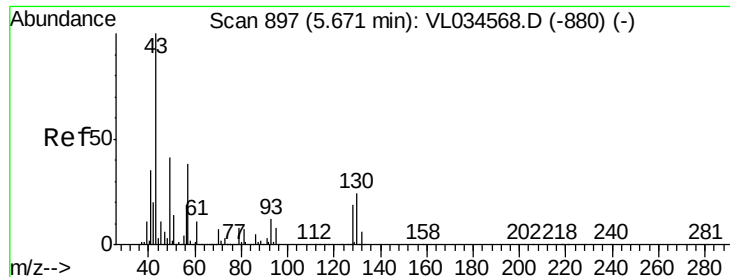
84 100

49 160.5 122.4 183.6

51 45.3 38.6 57.8

86 66.4 49.0 73.6

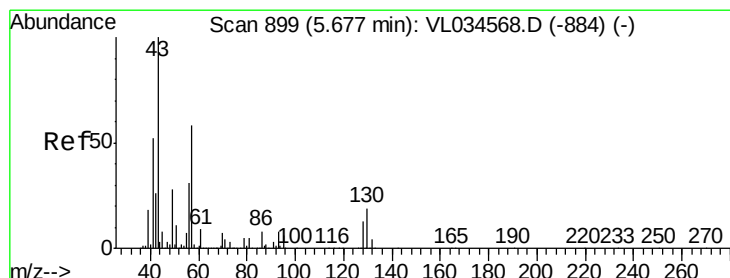
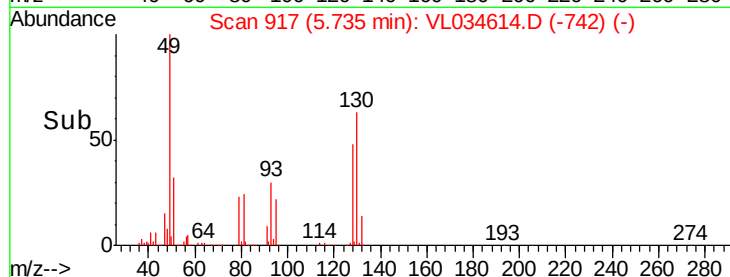
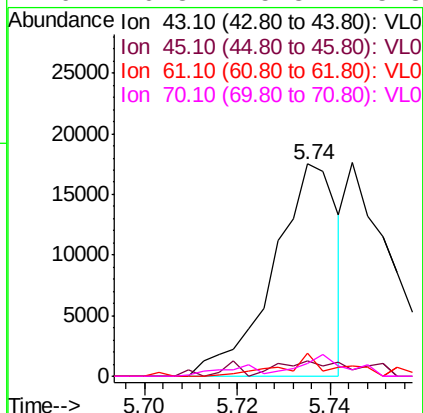
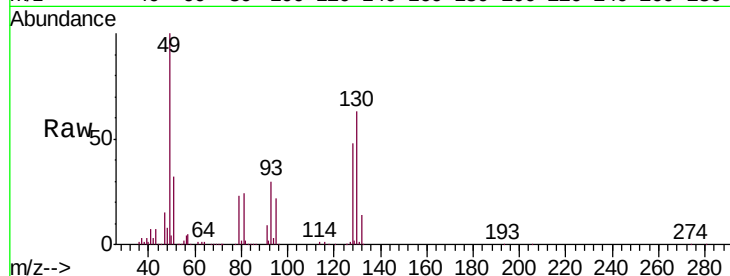




#25
Ethyl Acetate
Concen: 0.079 ppbv
RT: 5.74 min Scan# 917
Delta R.T. 0.06 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

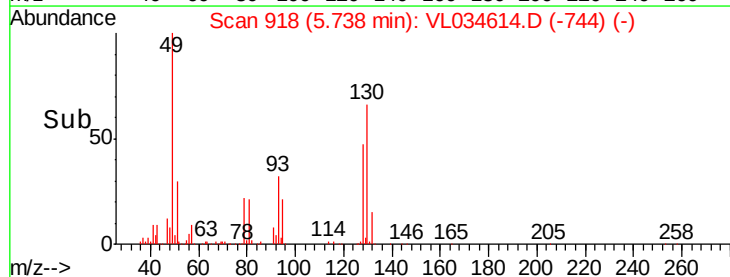
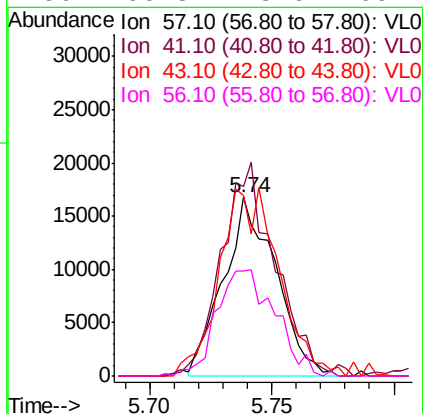
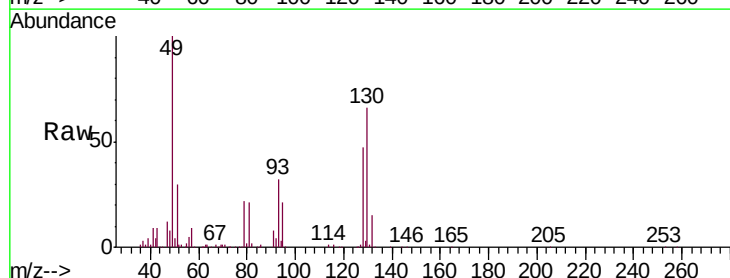
Instrument :
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IA-5DL

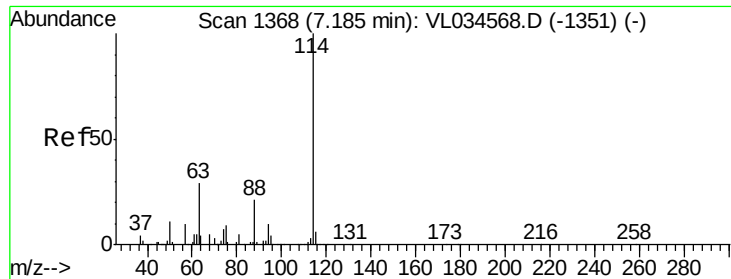
Tgt Ion:	43	Resp:	16688
Ion	Ratio	Lower	Upper
43	100		
45	11.8	8.5	12.7
61	9.8	7.8	11.6
70	10.8	5.8	8.8#



#26
Hexane
Concen: 0.283 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.06 min
Lab File: VL034614.D
Acq: 7 Feb 2020 9:33

Tgt Ion:	57	Resp:	25072
Ion	Ratio	Lower	Upper
57	100		
41	126.6	76.2	114.2#
43	120.9	189.9	284.9#
56	66.8	43.6	65.4#

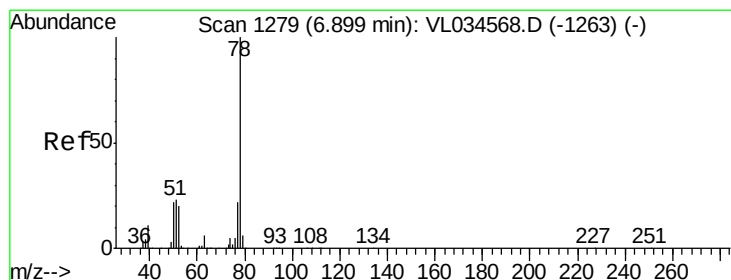
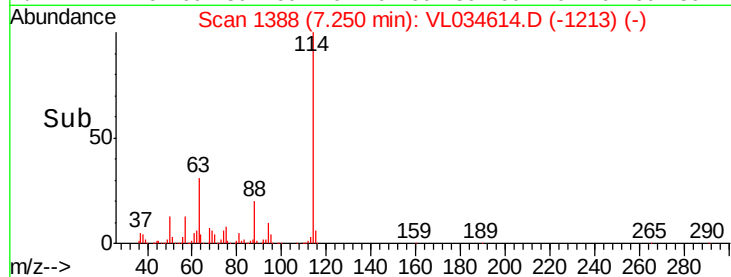
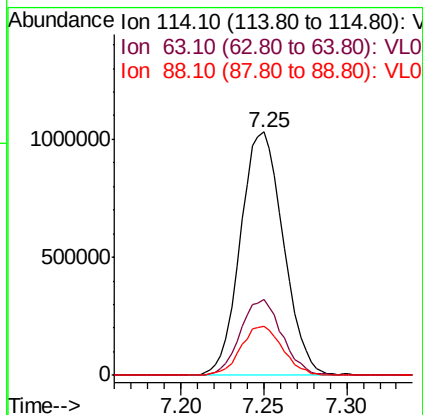
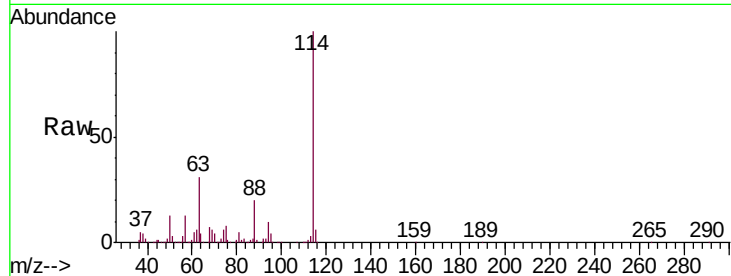




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1388
 Delta R.T. 0.06 min
 Lab File: VL034614.D
 Acq: 7 Feb 2020 9:33

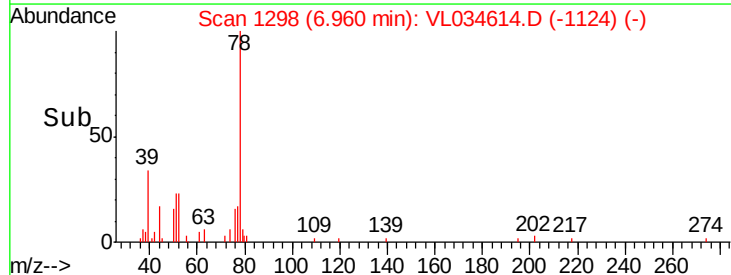
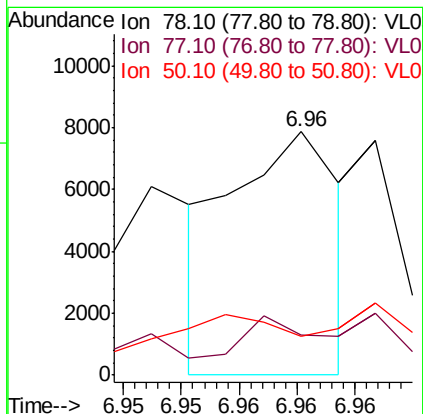
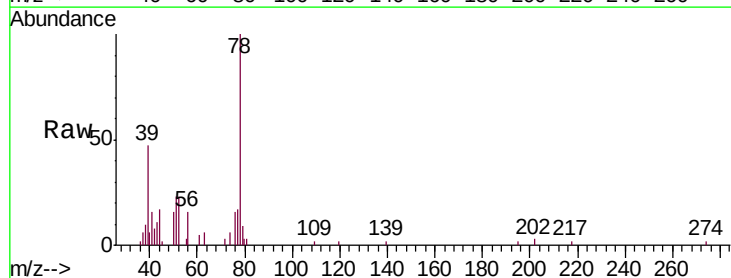
Instrument :
 MSVOA_L
 ClientSampled :
 IA-5DL

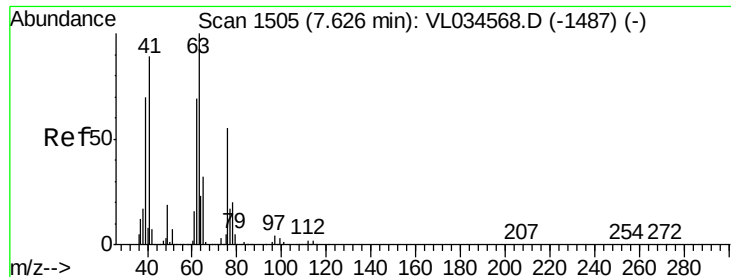
Tgt Ion: 114 Resp: 1860394
 Ion Ratio Lower Upper
 114 100
 63 30.5 24.1 36.1
 88 19.8 15.9 23.9



#36
 Benzene
 Concen: 0.031 ppbv
 RT: 6.96 min Scan# 1298
 Delta R.T. 0.06 min
 Lab File: VL034614.D
 Acq: 7 Feb 2020 9:33

Tgt Ion: 78 Resp: 5092
 Ion Ratio Lower Upper
 78 100
 77 32.6 17.3 25.9#
 50 0.0 17.4 26.2#





#39

1,2-Dichloropropane

Concen: 8.218 ppbv

RT: 7.25 min Scan# 1388

Delta R.T. -0.38 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

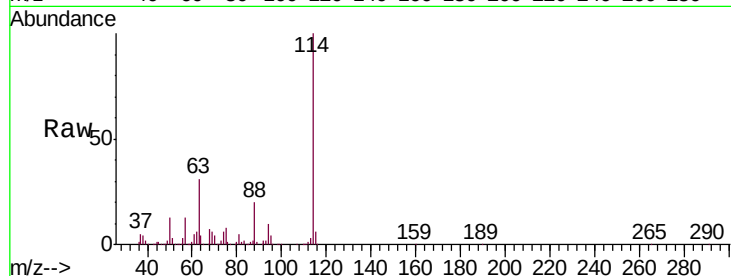
Tgt Ion: 63 Resp: 563628

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

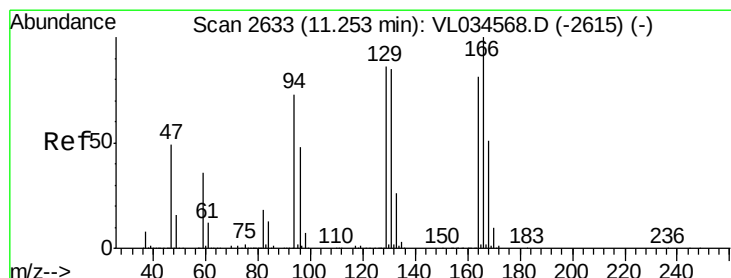
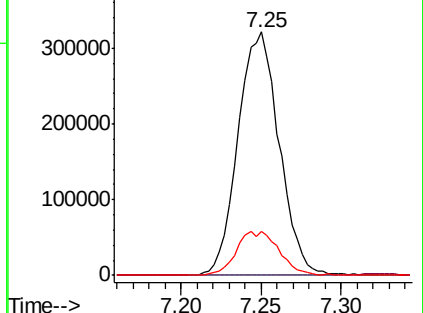
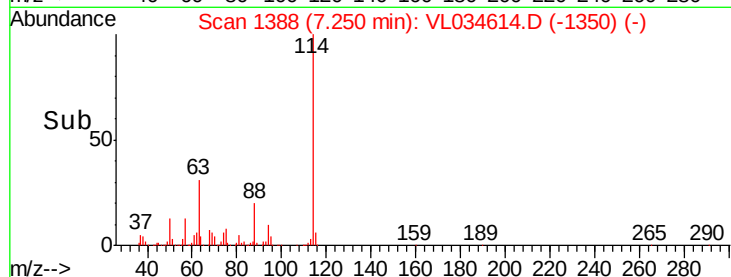
62 18.3 55.4 83.0#



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



#52

Tetrachloroethene

Concen: 0.386 ppbv

RT: 11.33 min Scan# 2656

Delta R.T. 0.07 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Tgt Ion:164 Resp: 25647

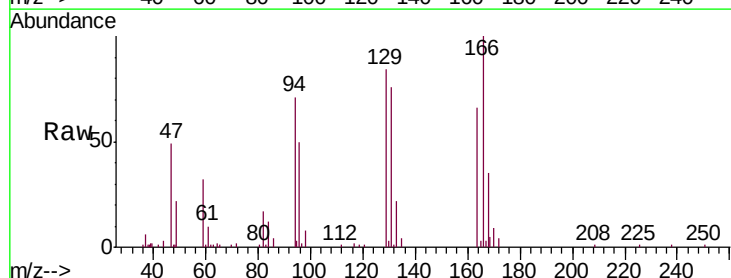
Ion Ratio Lower Upper

164 100

166 147.7 99.0 148.4

129 125.9 85.3 127.9

131 115.4 84.2 126.2

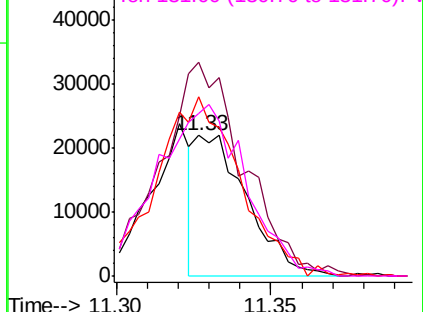
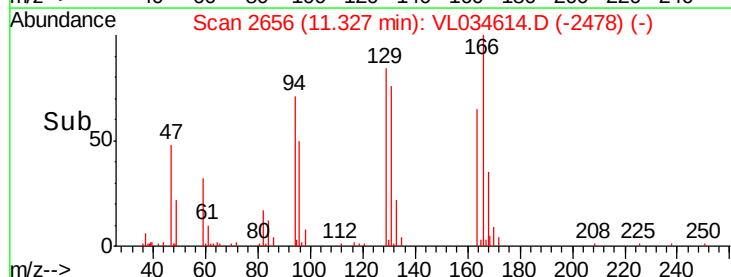


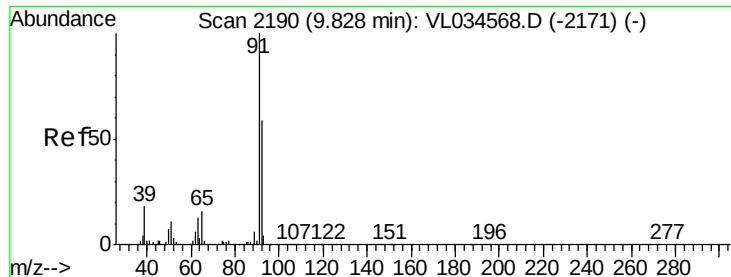
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.380 ppbv

RT: 9.90 min Scan# 2213

Delta R.T. 0.07 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

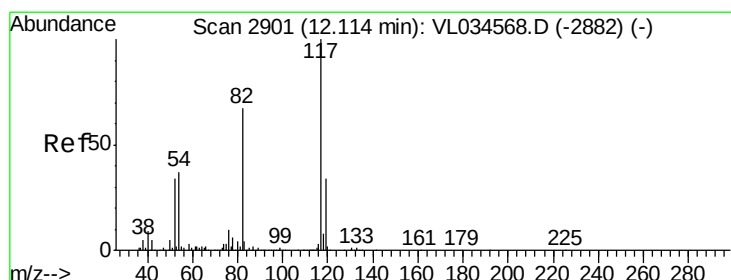
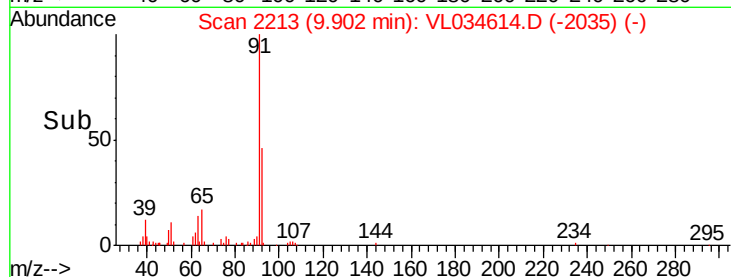
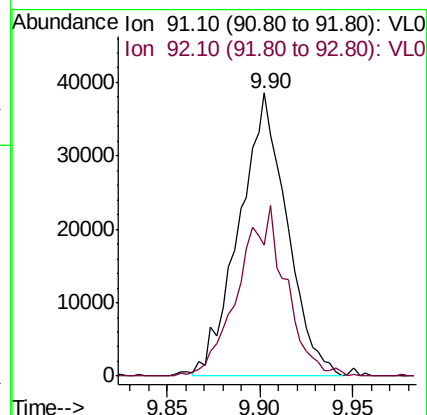
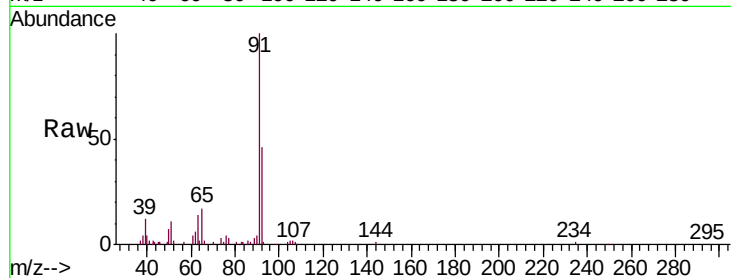
IA-5DL

Tgt Ion: 91 Resp: 68985

Ion Ratio Lower Upper

91 100

92 59.2 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.08 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

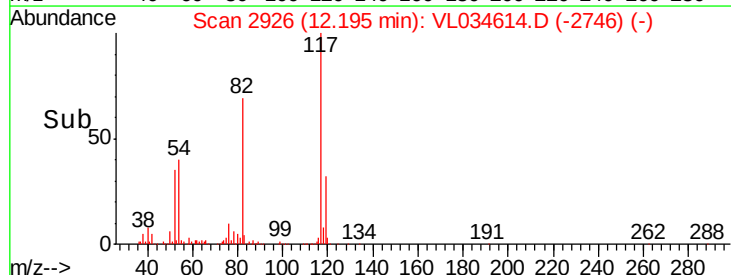
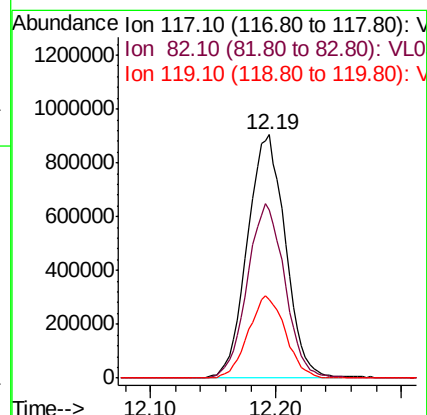
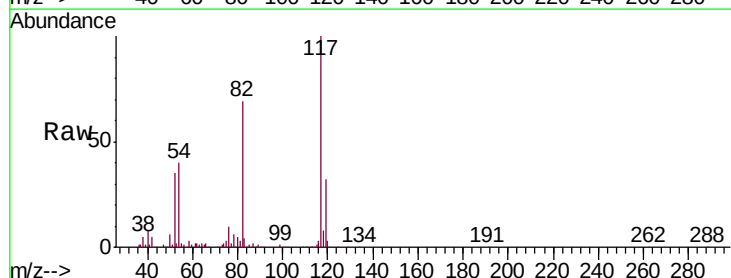
Tgt Ion: 117 Resp: 1899938

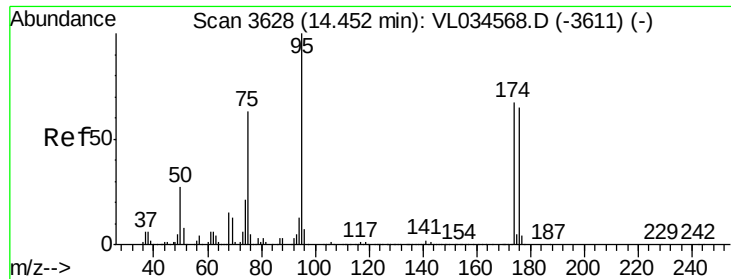
Ion Ratio Lower Upper

117 100

82 71.0 54.2 81.4

119 33.2 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.295 ppbv

RT: 14.53 min Scan# 3652

Delta R.T. 0.08 min

Lab File: VL034614.D

Acq: 7 Feb 2020 9:33

Instrument :

MSVOA_L

ClientSampleId :

IA-5DL

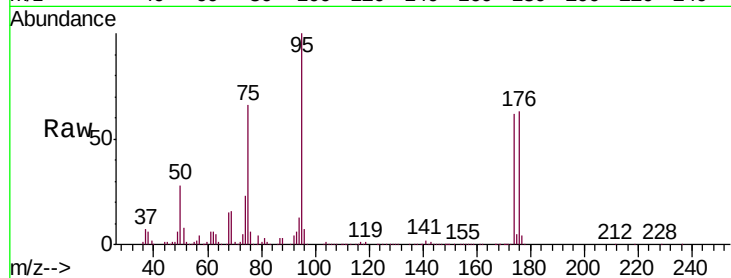
Tgt Ion: 95 Resp: 1653045

Ion Ratio Lower Upper

95 100

174 62.9 52.3 78.5

175 4.5 3.8 5.6



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

