

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012020\
 Data File : VX014669.D
 Acq On : 20 Jan 2020 12:24
 Operator : JC/SP
 Sample : L1202-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 21 00:32:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	436931	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	682925	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	625606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	284759	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	253562	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
35) Dibromofluoromethane	5.49	113	211219	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
50) Toluene-d8	8.71	98	807070	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	11.13	95	279783	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

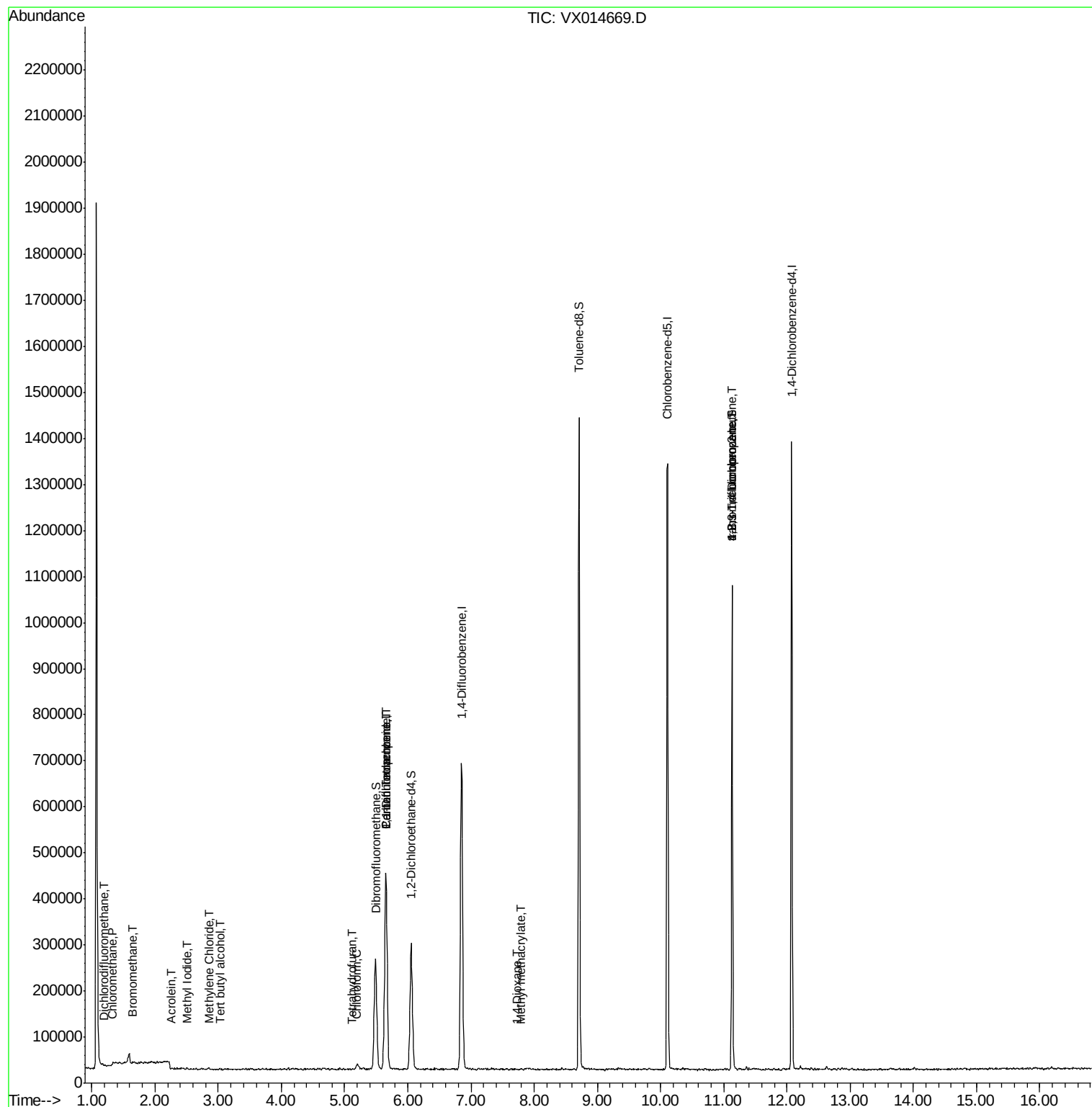
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	253	0.299	ug/l	97
3) Chloromethane	1.32	50	1138	0.204	ug/l #	42
5) Bromomethane	1.65	94	1672	0.406	ug/l	91
6) Chloroethane	1.72	64	129	Below Cal	#	43
10) Methyl Iodide	2.50	142	2038	0.397	ug/l #	69
11) Tert butyl alcohol	3.03	59	340	0.334	ug/l #	1
13) Acrolein	2.26	56	212	0.260	ug/l #	1
16) Acetone	2.43	43	3939	Below Cal		95
20) Methylene Chloride	2.85	84	1458	0.297	ug/l	84
29) Tetrahydrofuran	5.12	42	847	0.393	ug/l #	60
30) Chloroform	5.19	83	14087	1.810	ug/l	87
36) 1,1-Dichloropropene	5.65	75	29672	4.620	ug/l #	53
38) Carbon Tetrachloride	5.65	117	38946	6.590	ug/l #	17
48) Methyl methacrylate	7.79	41	1270	0.235	ug/l #	49
49) 1,4-Dioxane	7.73	88	257	2.247	ug/l #	69
76) 1,2,3-Trichloropropane	11.13	75	137889	23.404	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	137889	61.875	ug/l #	12
88) 1,4-Dichlorobenzene	12.02	146	910	Below Cal		90
96) 1,2,3-Trichlorobenzene	14.01	180	712	Below Cal	#	77

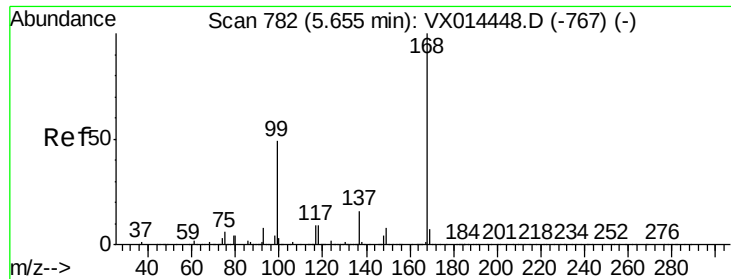
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

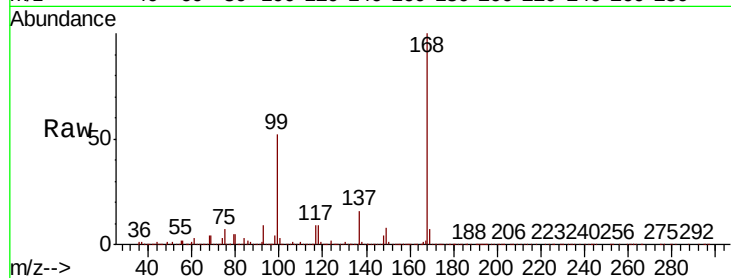
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 436931

Ion Ratio Lower Upper

168 100

99 52.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

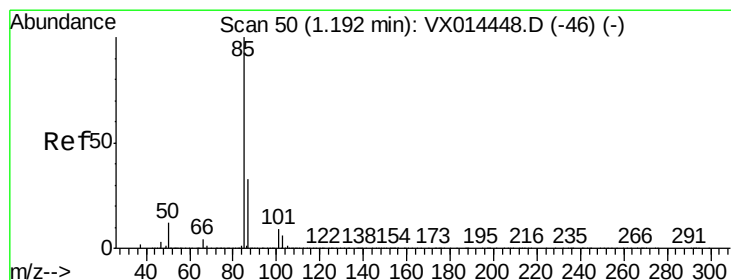
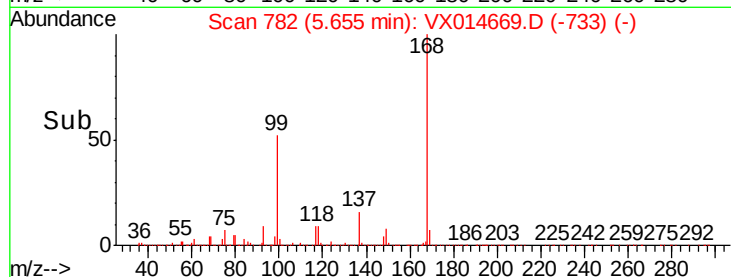
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.299 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014669.D

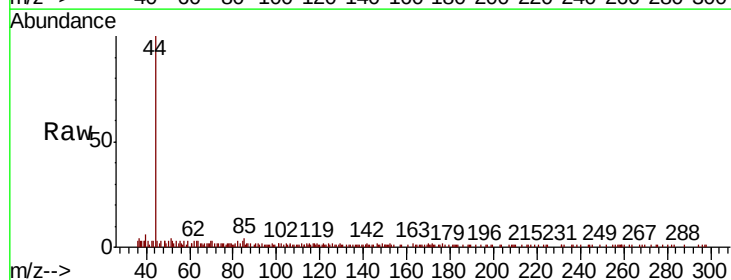
Acq: 20 Jan 2020 12:24

Tgt Ion: 85 Resp: 253

Ion Ratio Lower Upper

85 100

87 34.6 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

600

500

400

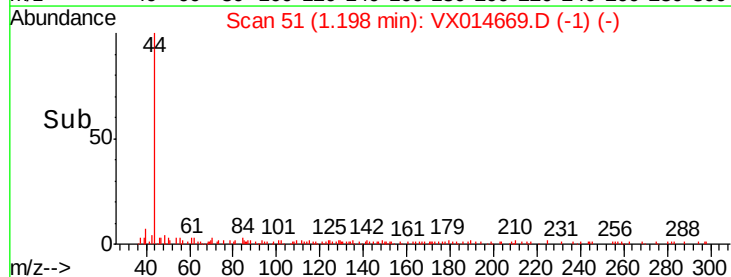
300

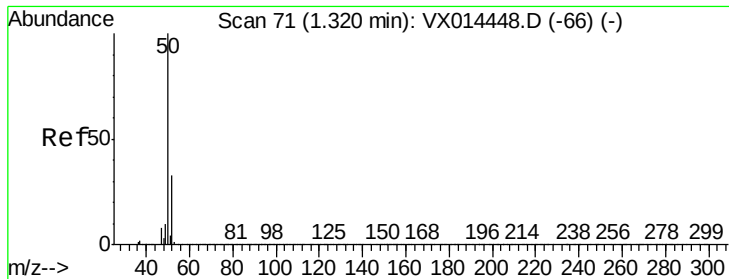
200

100

0

Time--> 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Instrument :

MSVOA_X

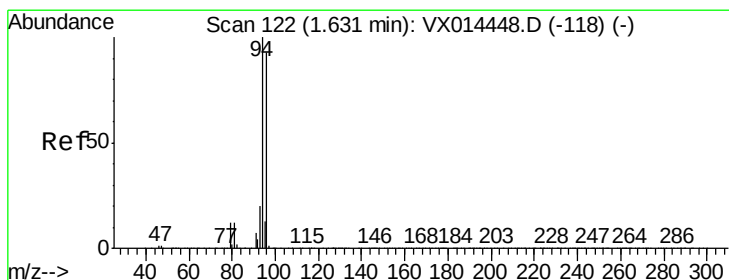
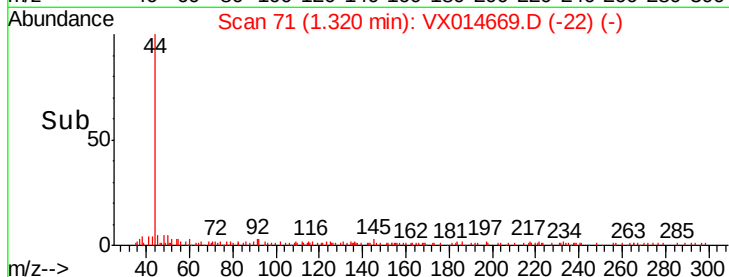
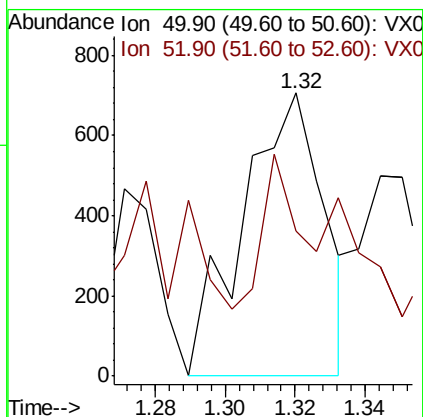
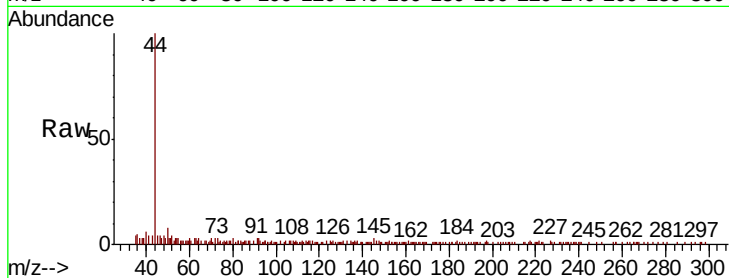
ClientSampleId :

Tot Ion: 50 Resp: 1138

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



#5

Bromomethane

Concen: 0.406 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014669.D

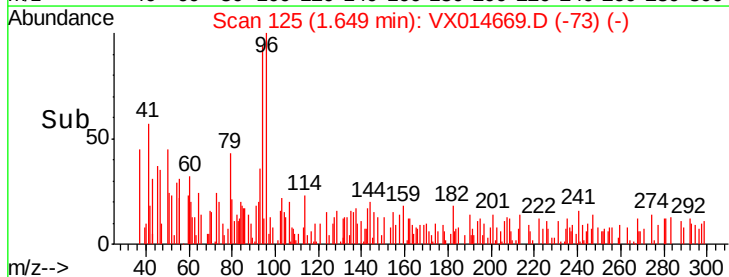
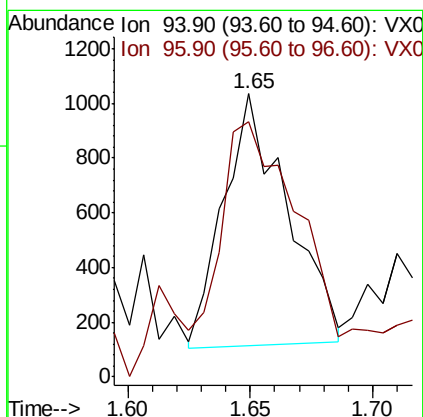
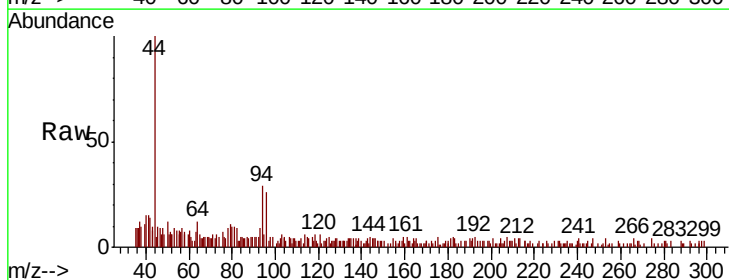
Acq: 20 Jan 2020 12:24

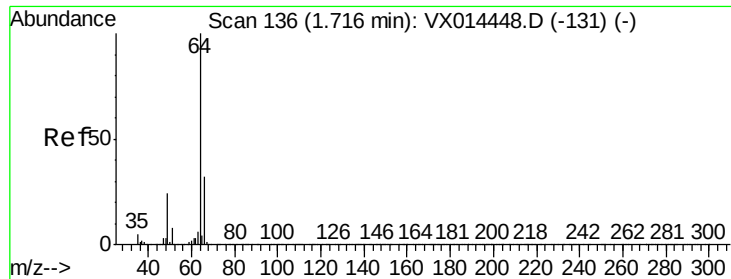
Tgt Ion: 94 Resp: 1672

Ion Ratio Lower Upper

94 100

96 84.3 74.2 111.2





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Instrument :

MSVOA_X

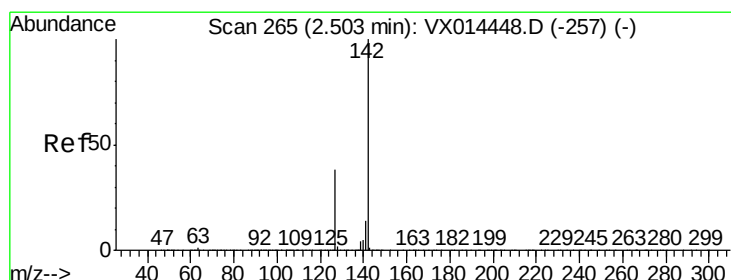
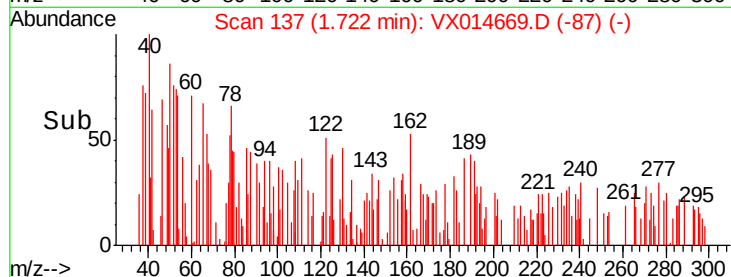
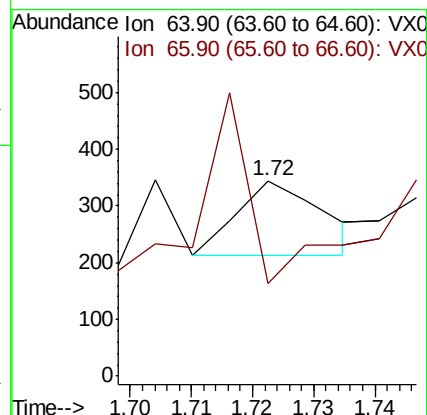
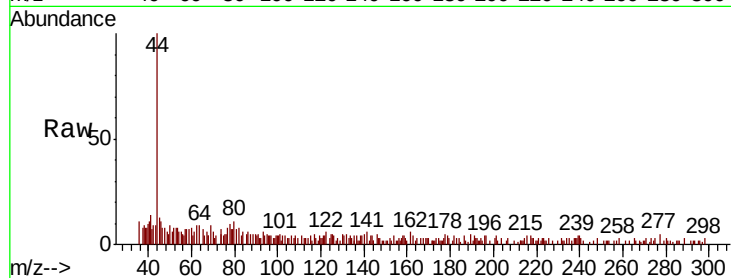
ClientSampleId :

Tot Ion: 64 Resp: 129

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#10

Methyl Iodide

Concen: 0.397 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

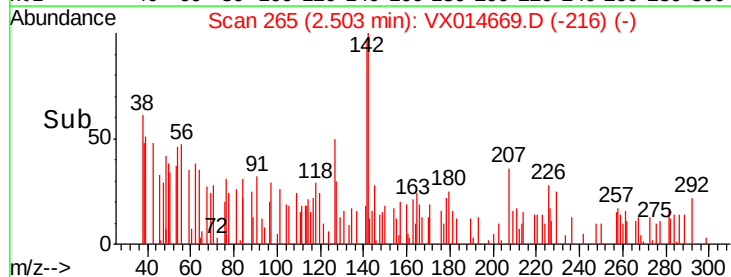
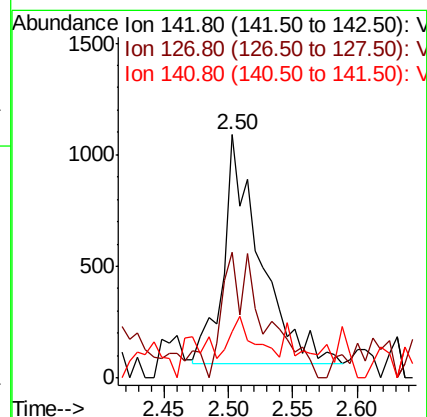
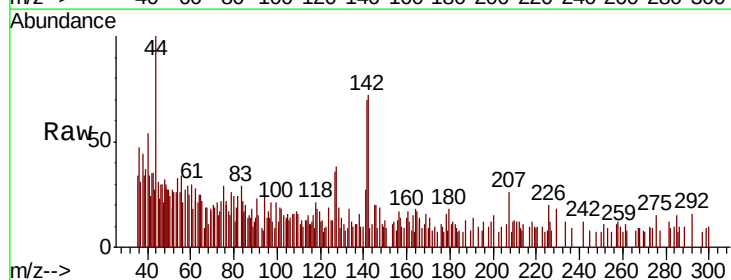
Tgt Ion: 142 Resp: 2038

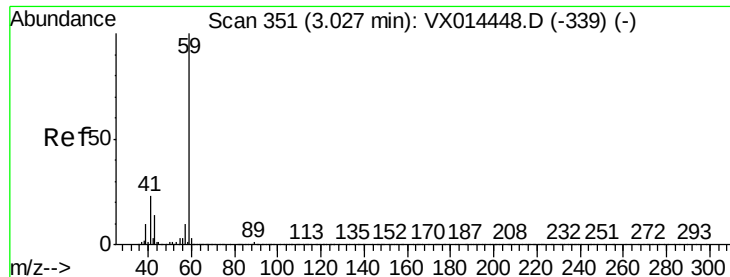
Ion Ratio Lower Upper

142 100

127 62.5 31.2 46.8#

141 18.9 11.4 17.2#



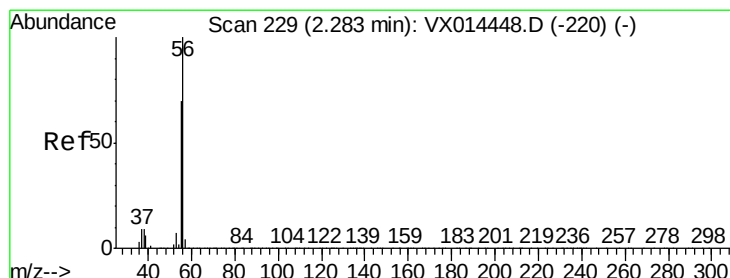
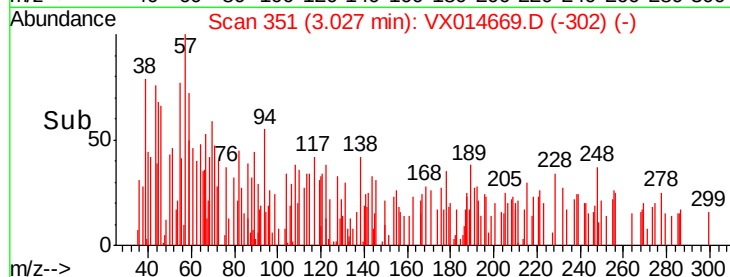
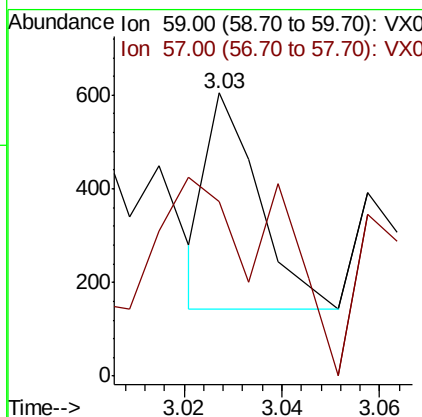
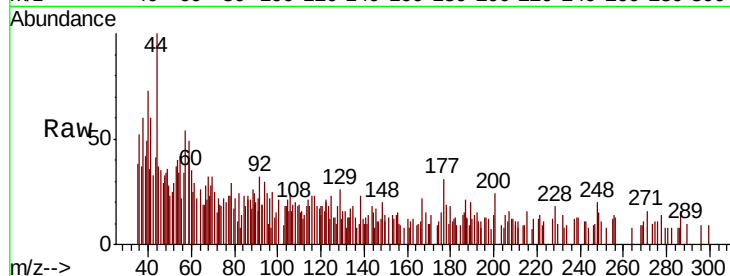


#11

Tert butyl alcohol
Concen: 0.334 ug/l
RT: 3.03 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Instrument :
MSVOA_X
ClientSampled :

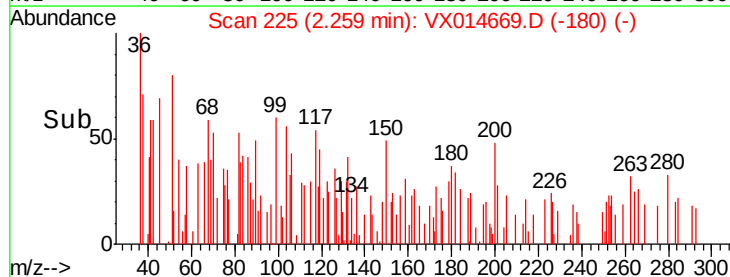
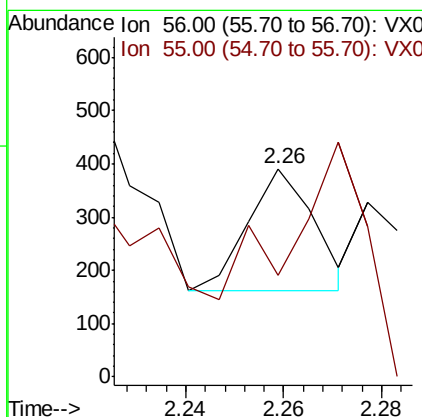
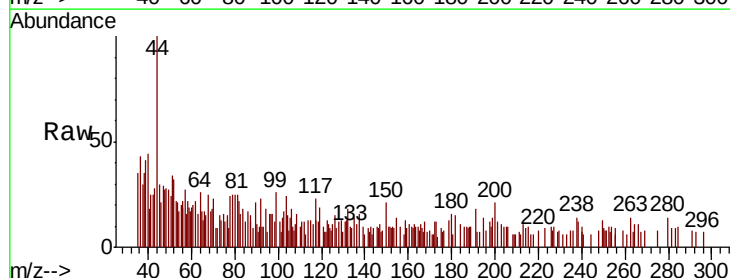
Tot Ion: 59 Resp: 340
Ion Ratio Lower Upper
59 100
57 207.6 8.5 12.7#

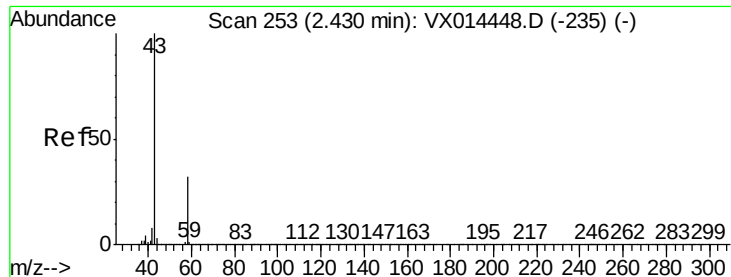


#13

Acrolein
Concen: 0.260 ug/l
RT: 2.26 min Scan# 225
Delta R.T. -0.02 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Tgt Ion: 56 Resp: 212
Ion Ratio Lower Upper
56 100
55 257.5 55.0 82.6#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

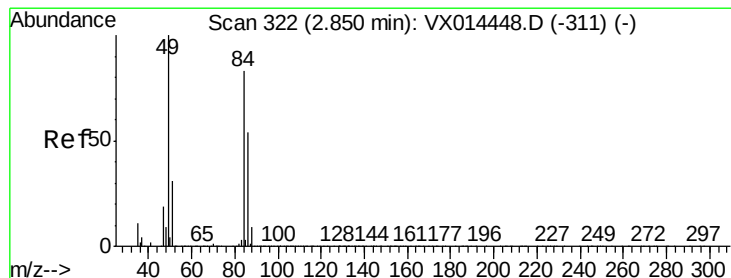
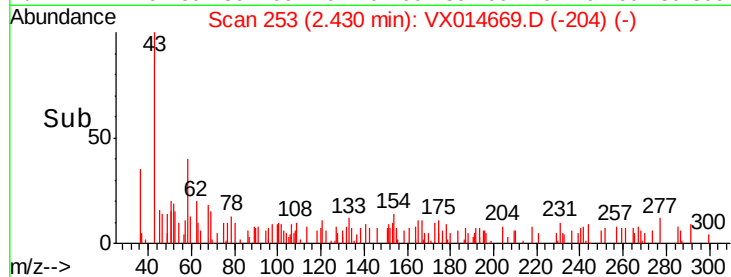
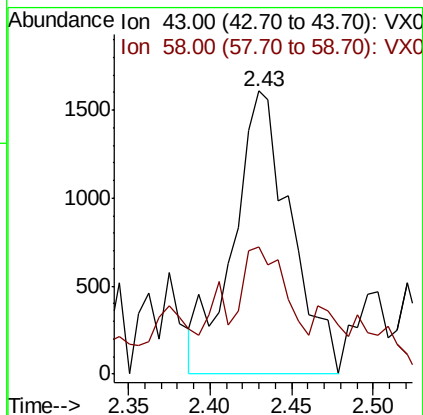
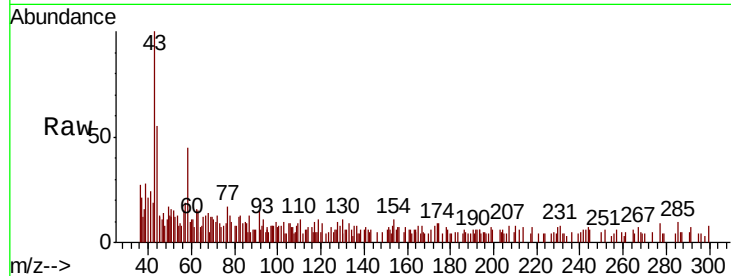
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 3939

Ion Ratio Lower Upper

43 100

58 28.9 25.4 38.0



#20

Methylene Chloride

Concen: 0.297 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Tgt Ion: 84 Resp: 1458

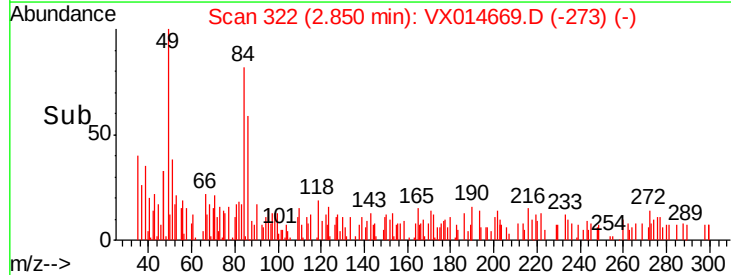
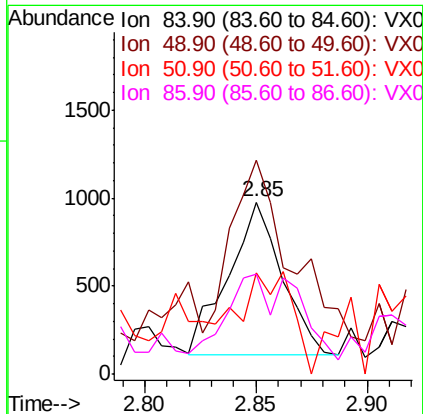
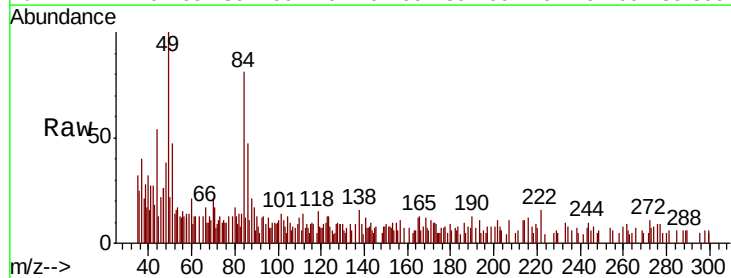
Ion Ratio Lower Upper

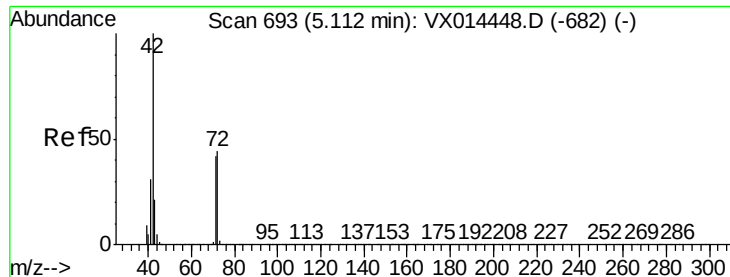
84 100

49 97.0 95.8 143.8

51 42.5 30.2 45.4

86 56.2 51.8 77.6





#29

Tetrahydrofuran

Concen: 0.393 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Instrument :

MSVOA_X

ClientSampleId :

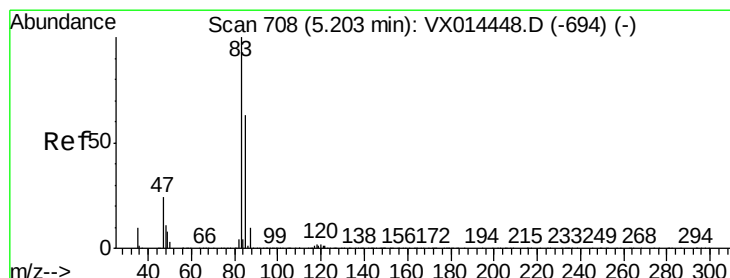
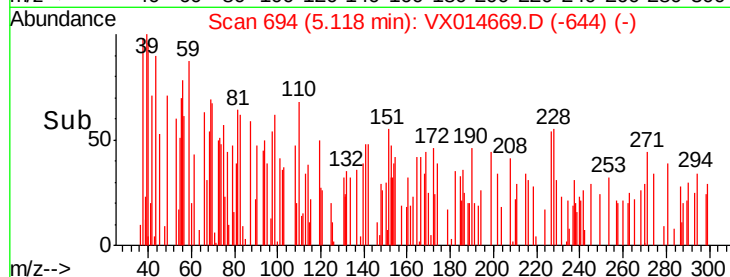
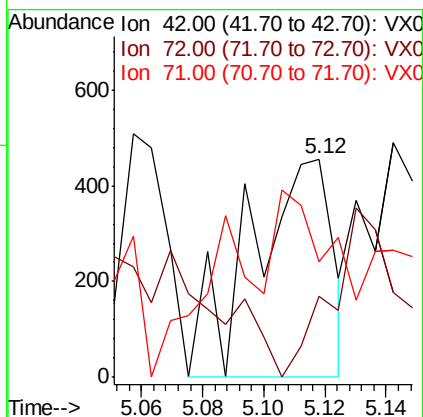
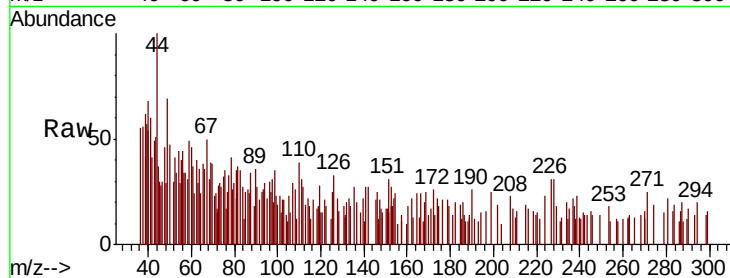
Tot Ion: 42 Resp: 847

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 47.8 34.1 51.1



#30

Chloroform

Concen: 1.810 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX014669.D

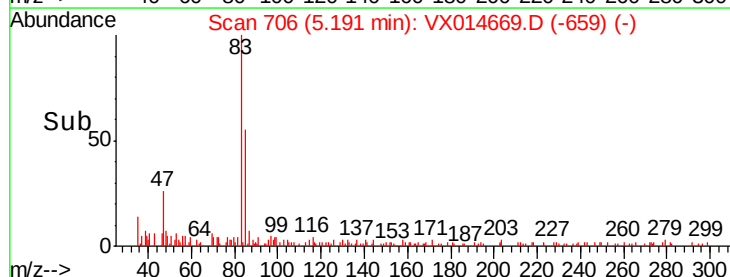
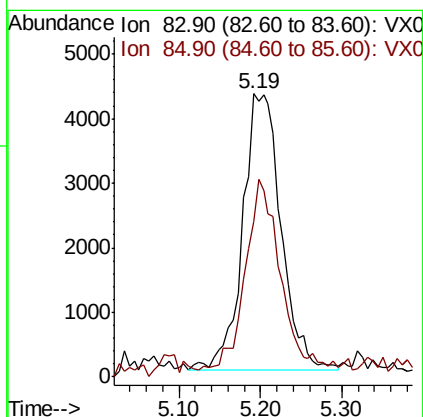
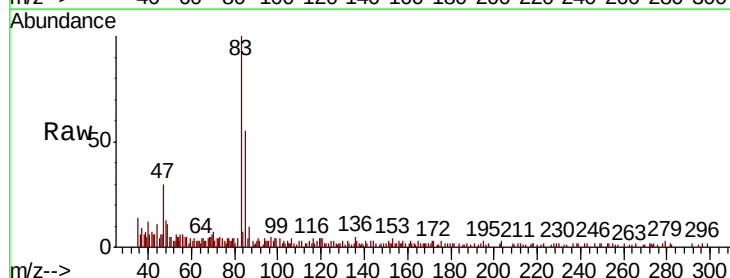
Acq: 20 Jan 2020 12:24

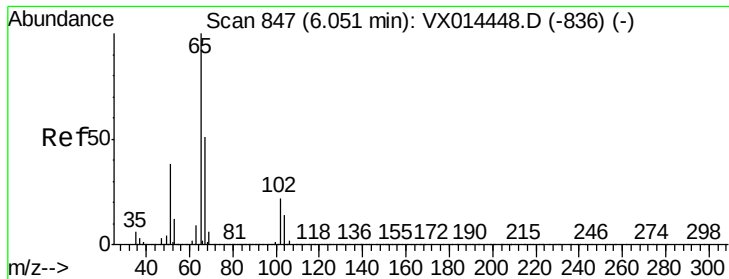
Tgt Ion: 83 Resp: 14087

Ion Ratio Lower Upper

83 100

85 53.2 50.6 75.8

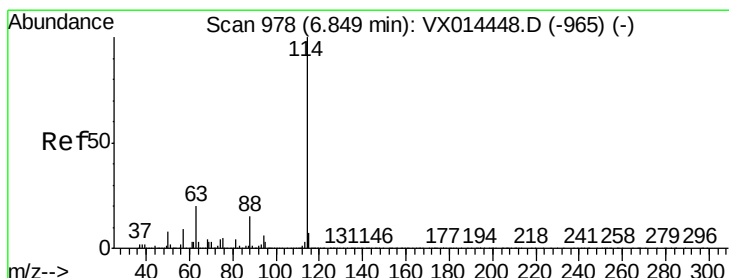
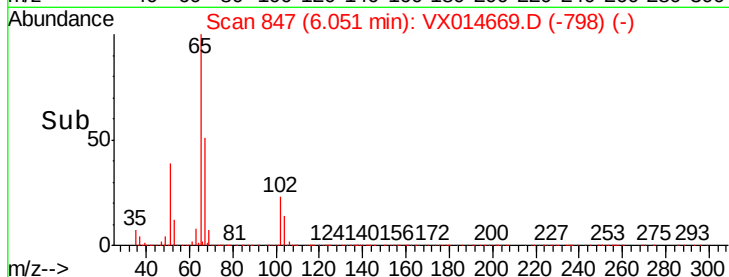
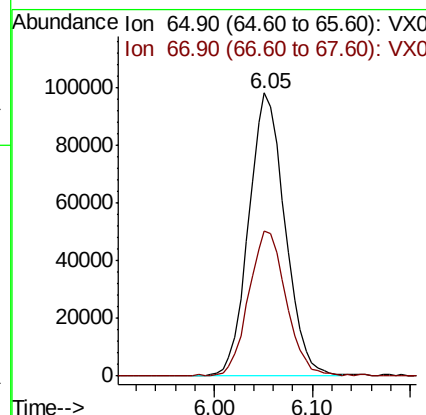
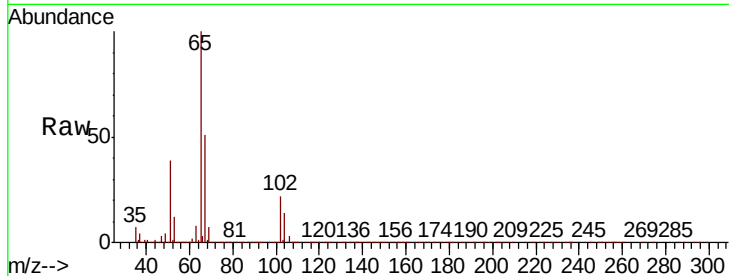




#33
 1,2-Dichloroethane-d4
 Concen: 51.985 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014669.D
 Acq: 20 Jan 2020 12:24

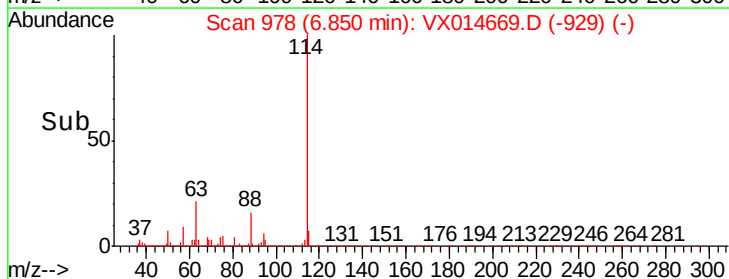
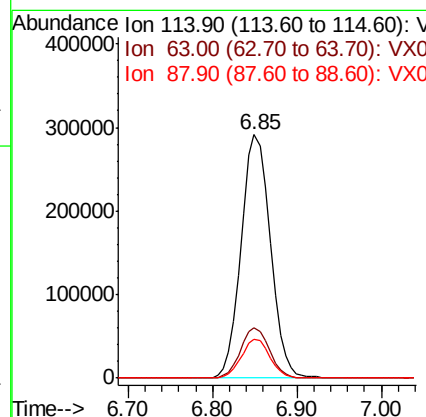
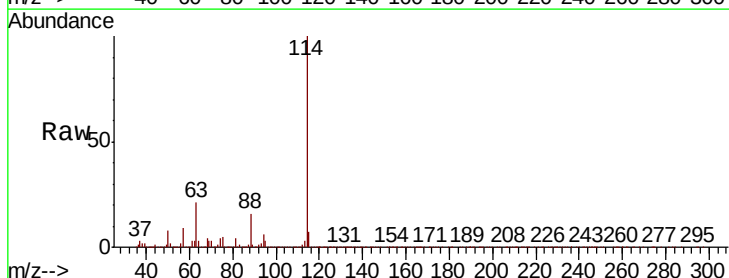
Instrument :
 MSVOA_X
 ClientSampled :

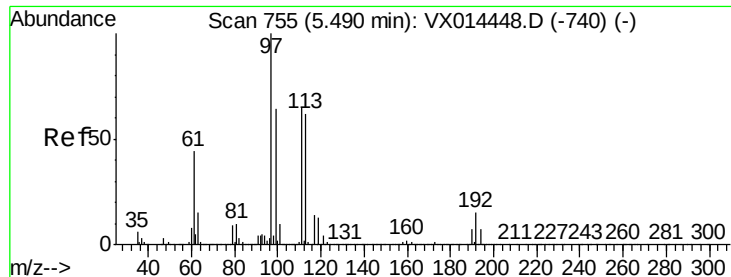
Tot Ion: 65 Resp: 253562
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014669.D
 Acq: 20 Jan 2020 12:24

Tgt Ion: 114 Resp: 682925
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.6
 88 16.1 0.0 30.8

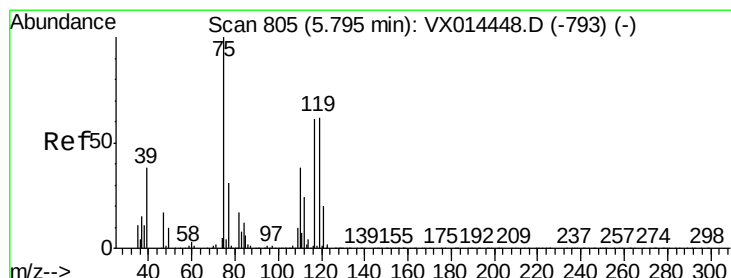
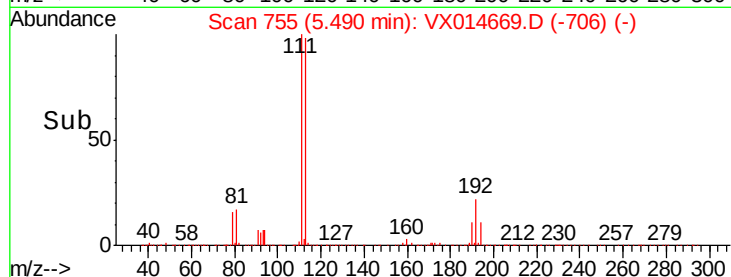
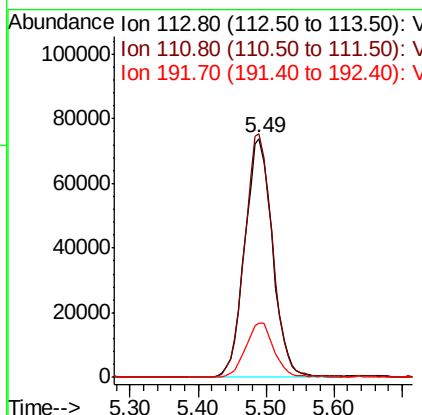
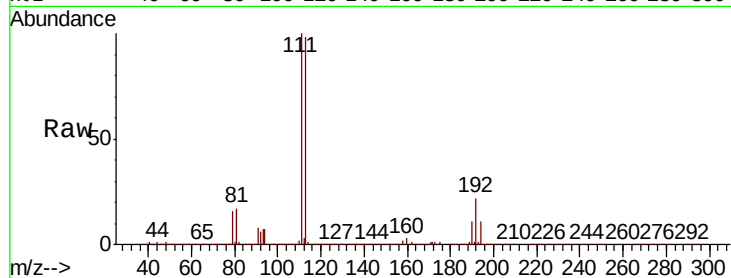




#35
 Dibromofluoromethane
 Concen: 51.093 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014669.D
 Acq: 20 Jan 2020 12:24

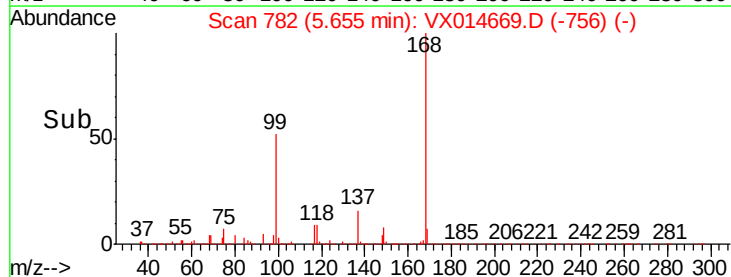
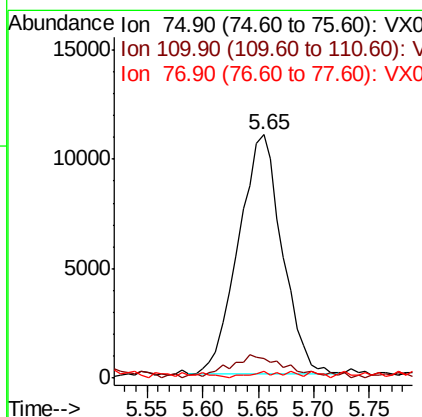
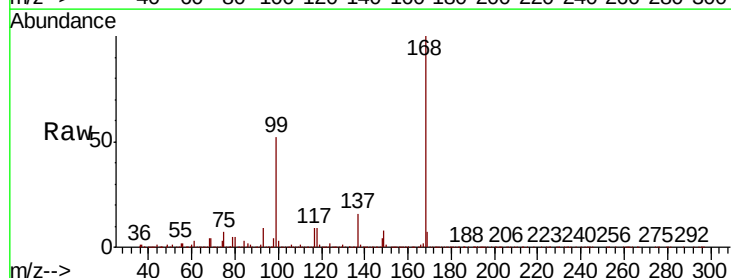
Instrument :
 MSVOA_X
 ClientSampleId :

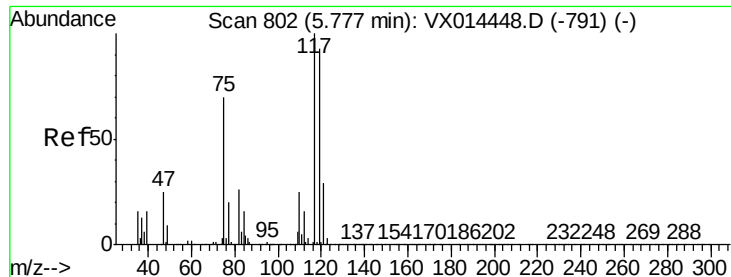
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.5	122.3
192	22.6	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.620 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014669.D
 Acq: 20 Jan 2020 12:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.3	18.6	55.8#
77	1.4	24.5	36.7#

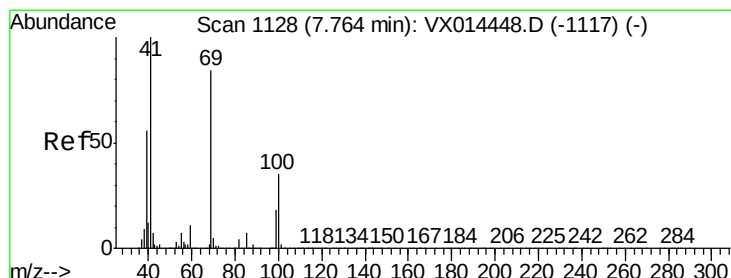
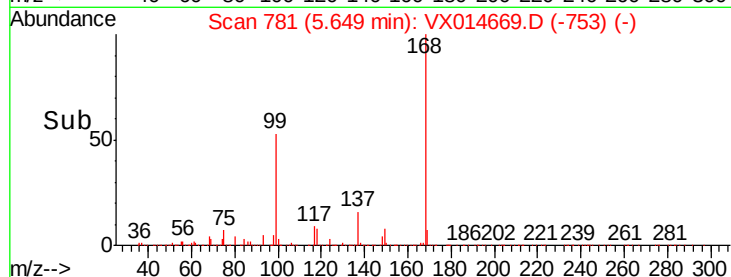
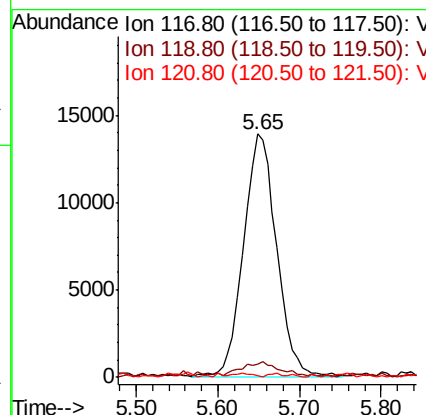
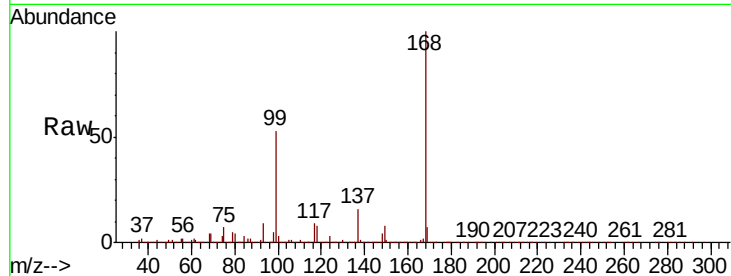




#38
Carbon Tetrachloride
Concen: 6.590 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

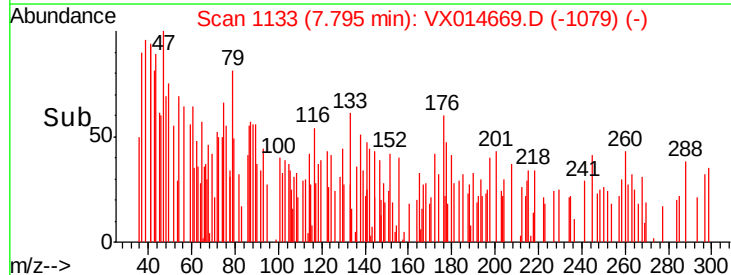
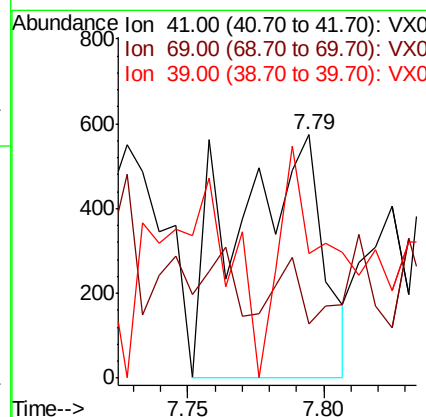
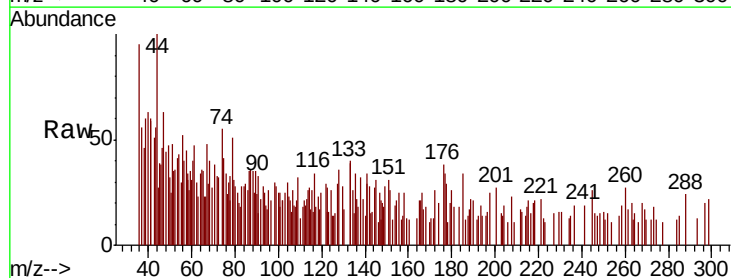
Instrument :
MSVOA_X
ClientSampleId :

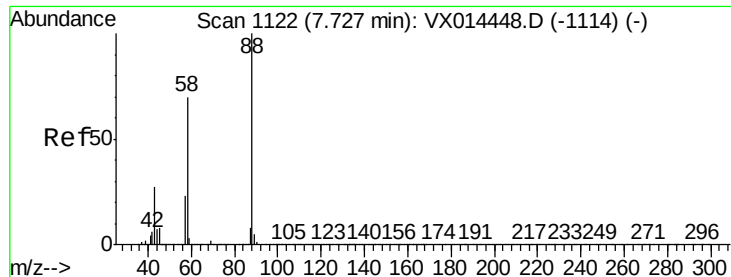
Tot Ion:117 Resp: 38946
Ion Ratio Lower Upper
117 100
119 4.3 73.8 110.8#
121 0.0 23.4 35.0#



#48
Methyl methacrylate
Concen: 0.235 ug/l
RT: 7.79 min Scan# 1133
Delta R.T. 0.03 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Tgt Ion: 41 Resp: 1270
Ion Ratio Lower Upper
41 100
69 7.2 65.5 98.3#
39 56.3 43.9 65.9





#49

1,4-Dioxane

Concen: 2.247 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Instrument :
MSVOA_X
ClientSampleId :

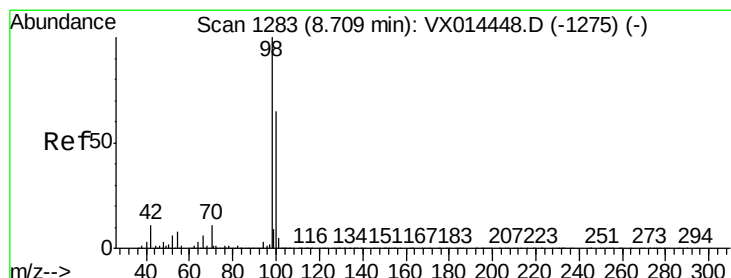
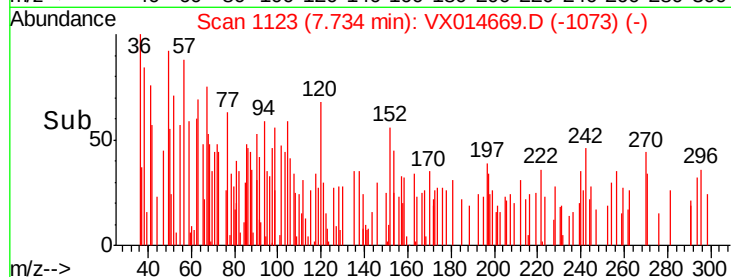
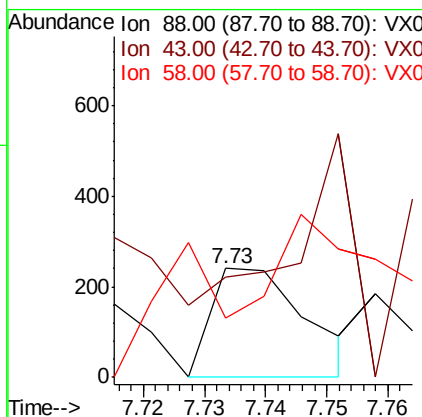
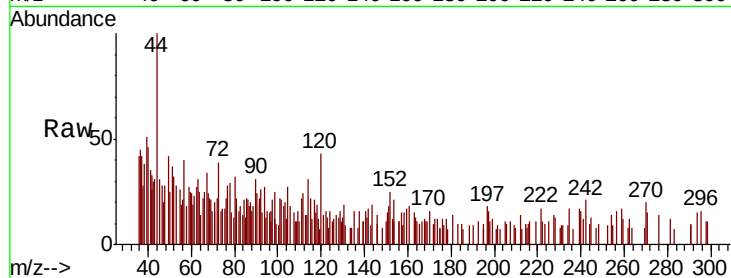
Tot Ion: 88 Resp: 257

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 85.2 57.1 85.7



#50

Toluene-d8

Concen: 50.307 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014669.D

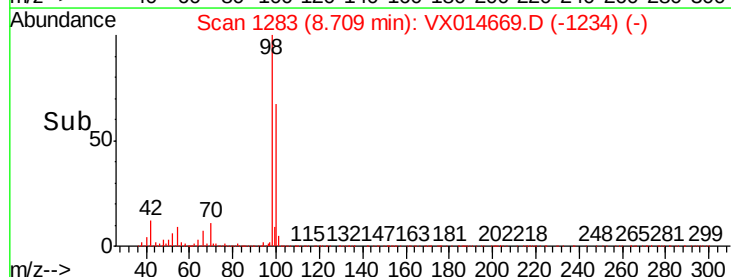
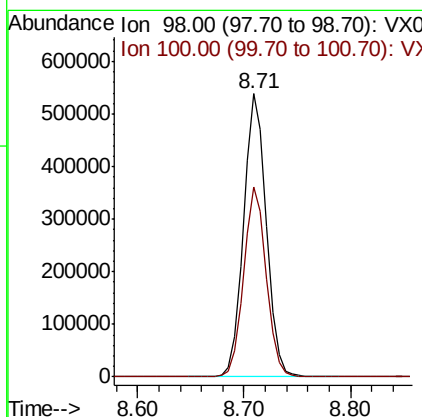
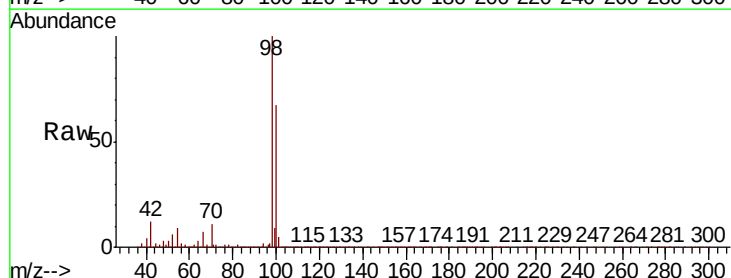
Acq: 20 Jan 2020 12:24

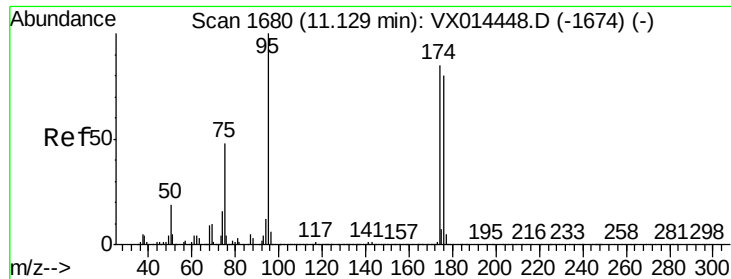
Tgt Ion: 98 Resp: 807070

Ion Ratio Lower Upper

98 100

100 66.5 53.2 79.8

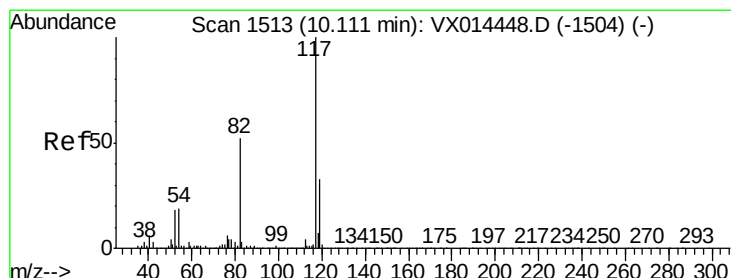
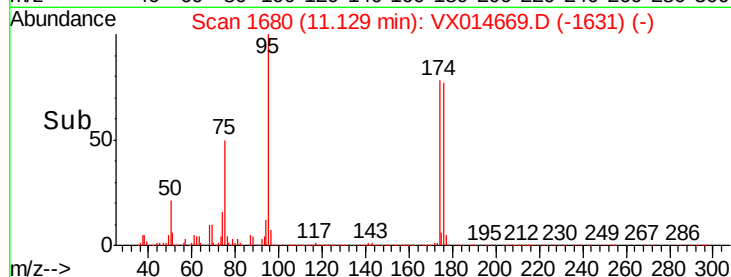
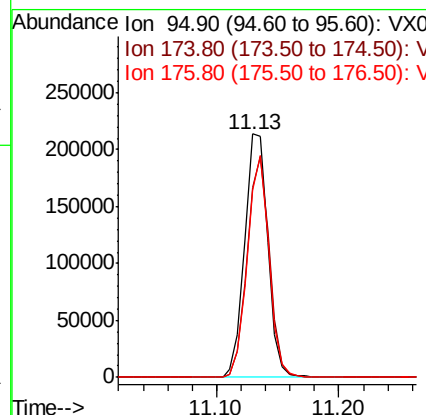
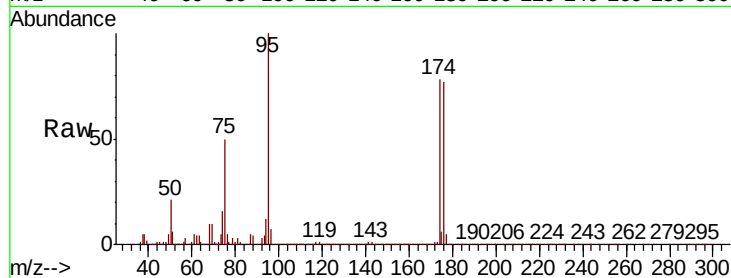




#62
4-Bromofluorobenzene
Concen: 47.505 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

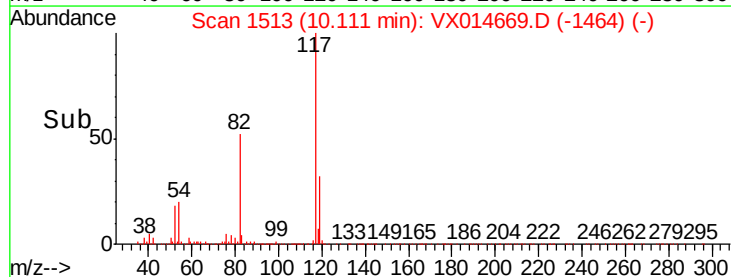
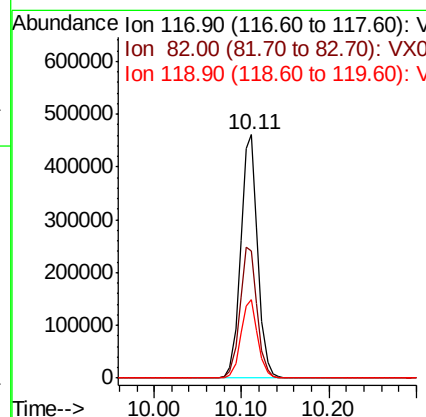
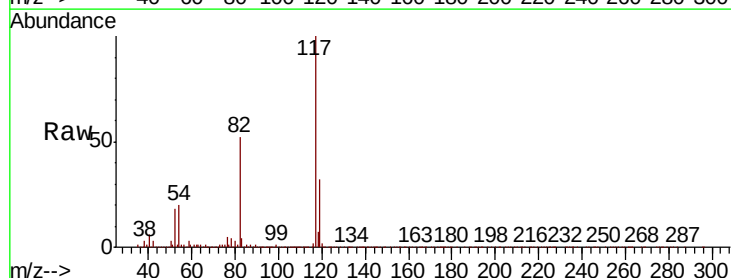
Instrument :
MSVOA_X
ClientSampleId :

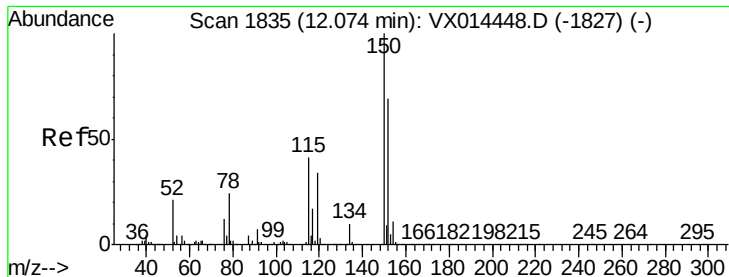
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	180.8
176	85.4	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.8	62.6
119	32.0	26.2	39.4



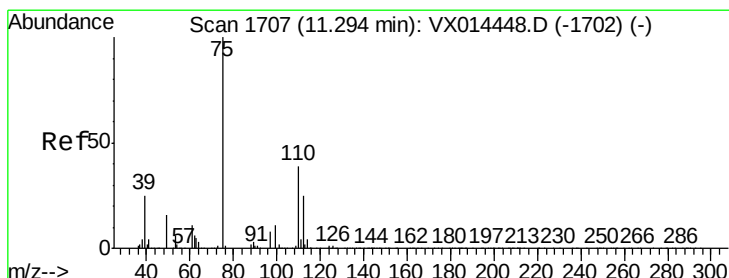
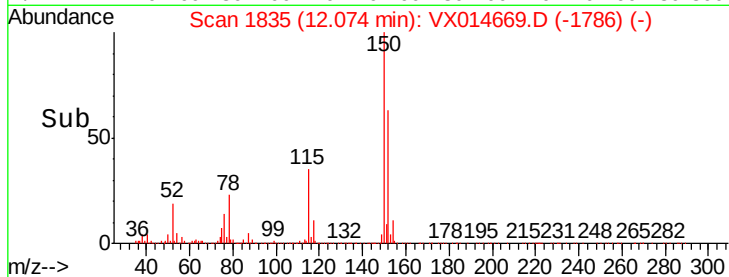
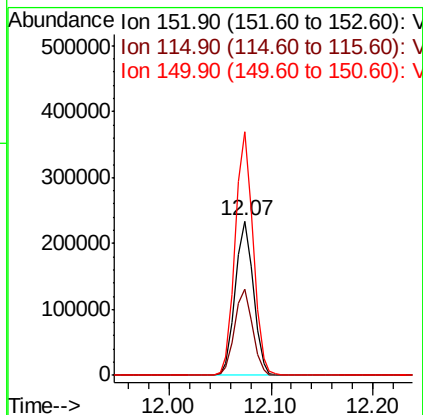
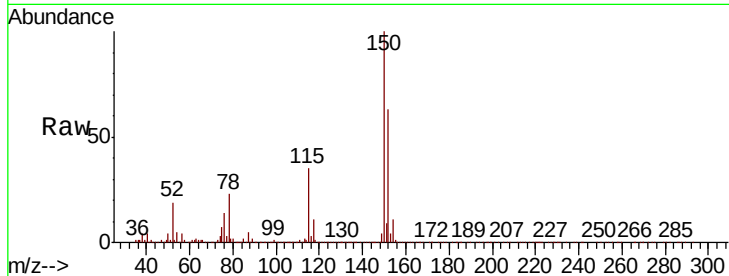


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Instrument :
MSVOA_X
ClientSampleId :

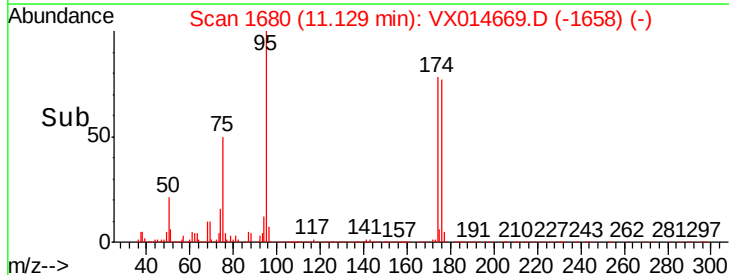
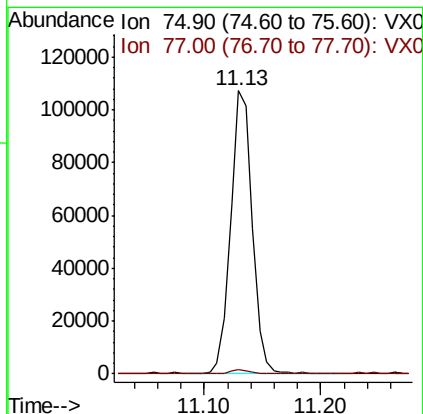
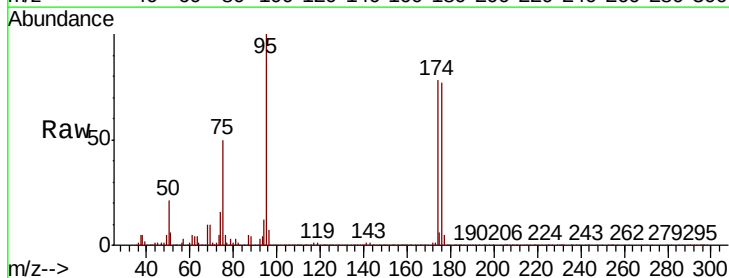
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.5	118.3
150	154.7	0.0	350.2

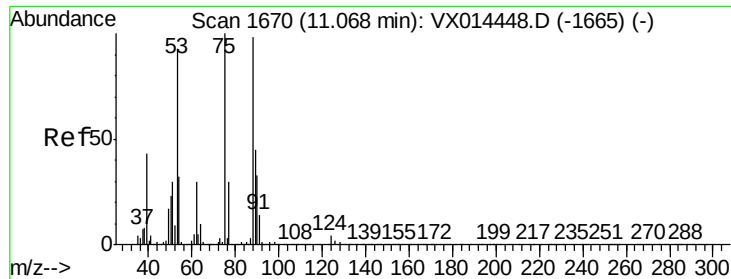


#76

1,2,3-Trichloropropane
Concen: 23.404 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014669.D
Acq: 20 Jan 2020 12:24

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.9	65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 61.875 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

Instrument :

MSVOA_X

ClientSampleId :

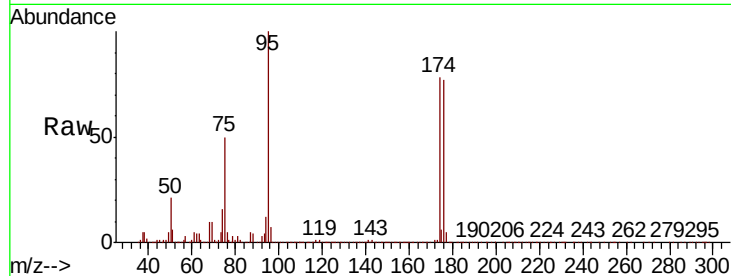
Tot Ion: 75 Resp: 137889

Ion Ratio Lower Upper

75 100

53 0.3 74.8 112.2#

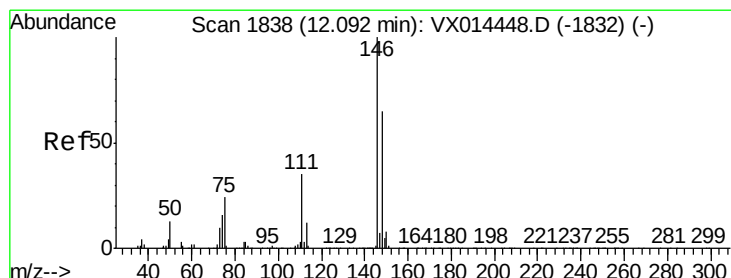
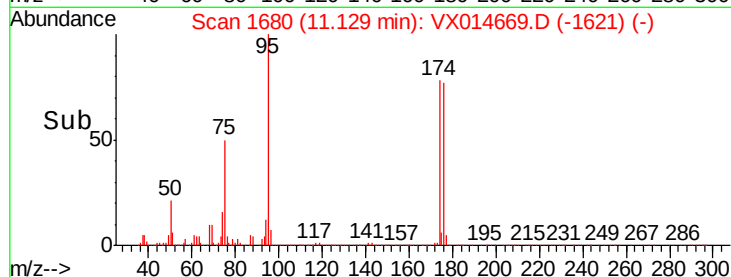
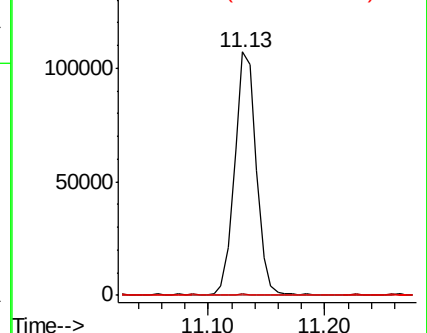
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.02 min Scan# 1826

Delta R.T. -0.07 min

Lab File: VX014669.D

Acq: 20 Jan 2020 12:24

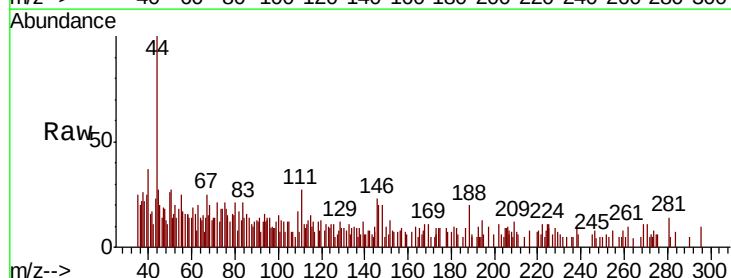
Tgt Ion: 146 Resp: 910

Ion Ratio Lower Upper

146 100

111 43.2 18.1 54.1

148 57.4 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

