

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022620\
 Data File : VX015021.D
 Acq On : 26 Feb 2020 15:22
 Operator : JC/SP
 Sample : L1683-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 27 02:55:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	418064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	657182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	636509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	326836	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	239881	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
35) Dibromofluoromethane	5.49	113	200989	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
50) Toluene-d8	8.71	98	792821	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.14	95	298625	53.75	ug/l	0.00
Spiked Amount			Recovery	=	107.50%	

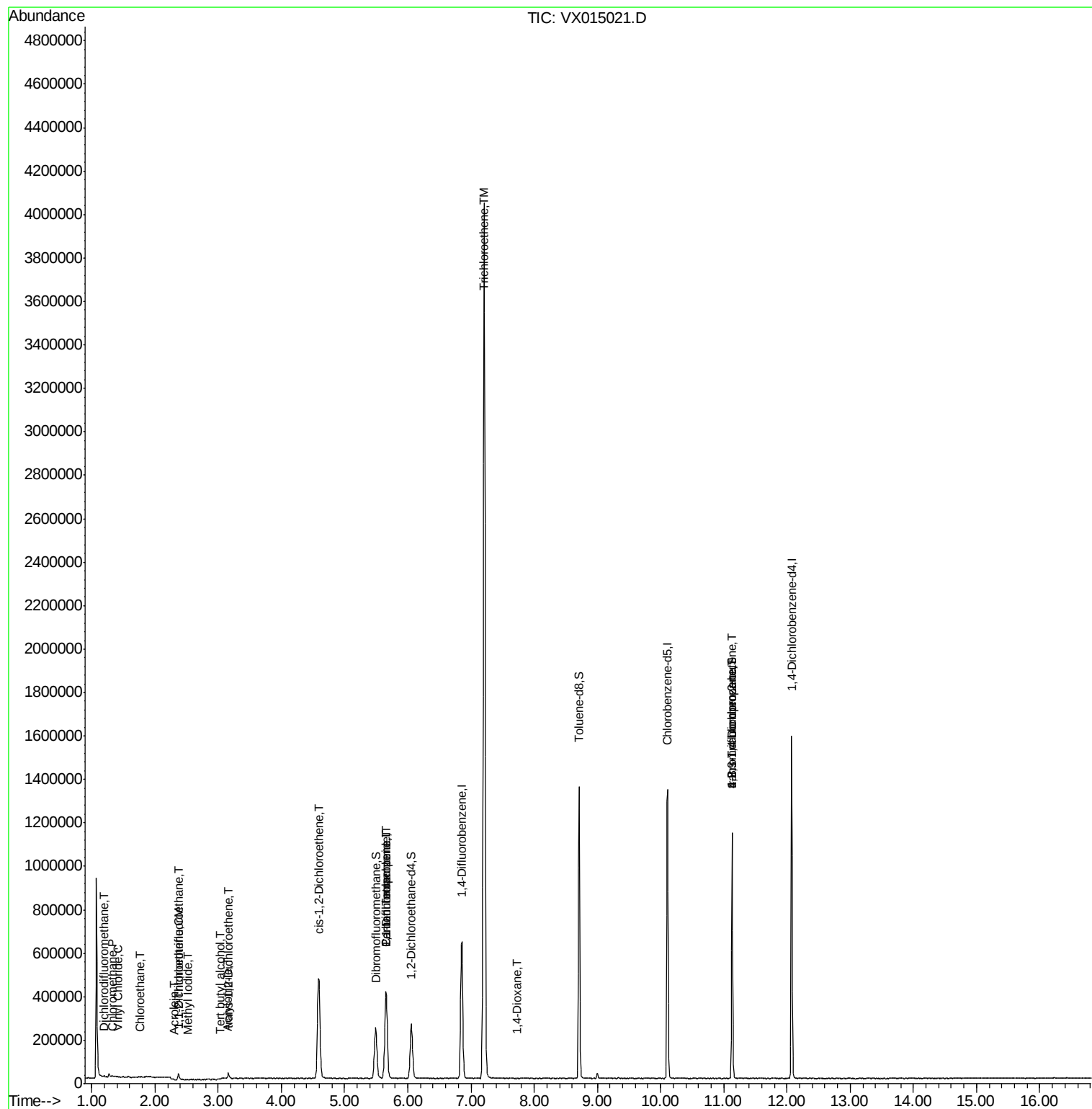
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	3247	0.820	ug/l	93
3) Chloromethane	1.32	50	1410	0.314	ug/l #	86
4) Vinyl Chloride	1.41	62	3668	0.759	ug/l #	88
6) Chloroethane	1.77	64	1843	0.596	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2665	0.680	ug/l #	89
10) Methyl Iodide	2.52	142	577	4.489	ug/l #	87
11) Tert butyl alcohol	3.02	59	209	0.251	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	8704	2.271	ug/l	97
13) Acrolein	2.30	56	601	0.947	ug/l	95
15) Acrylonitrile	3.14	53	554	0.262	ug/l #	49
16) Acetone	2.43	43	2713	Below Cal	#	60
21) trans-1,2-Dichloroethene	3.16	96	10245	2.423	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	306425	64.831	ug/l	90
36) 1,1-Dichloropropene	5.65	75	29257	4.977	ug/l #	46
38) Carbon Tetrachloride	5.65	117	36139	6.308	ug/l #	16
44) Trichloroethene	7.21	130	1550160	304.016	ug/l	99
49) 1,4-Dioxane	7.74	88	176	1.891	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	143279	24.242	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	143279	62.053	ug/l #	12

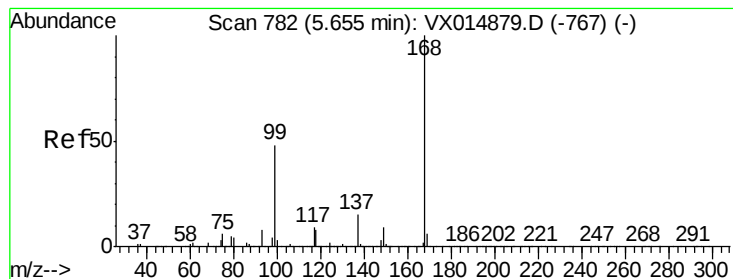
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

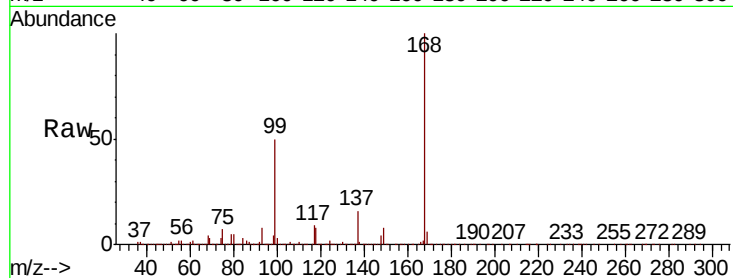
ClientSampleId :

Tot Ion:168 Resp: 418064

Ion Ratio Lower Upper

168 100

99 49.6 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

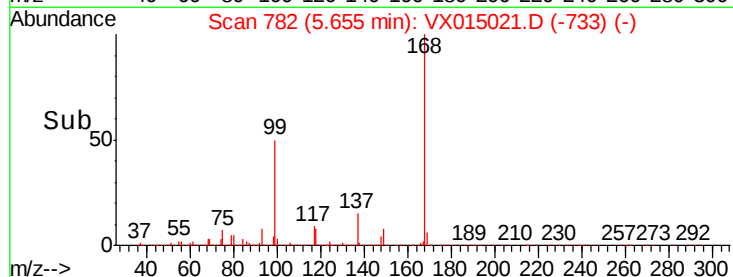
100000

50000

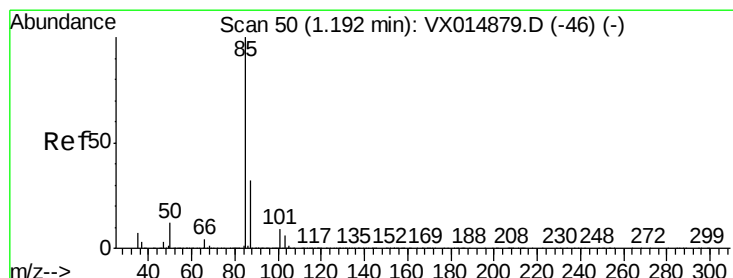
0

5.65

5.50 5.60 5.70 5.80



Time-->



#2

Dichlorodifluoromethane

Concen: 0.820 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015021.D

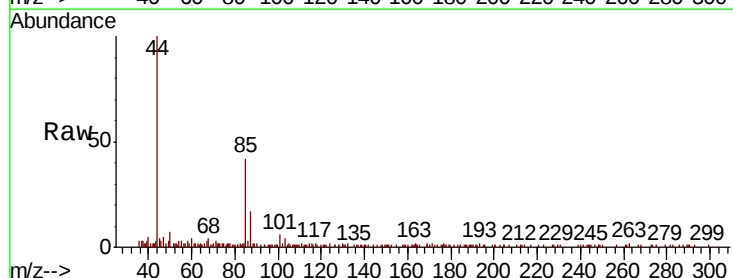
Acq: 26 Feb 2020 15:22

Tgt Ion: 85 Resp: 3247

Ion Ratio Lower Upper

85 100

87 36.2 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

3000

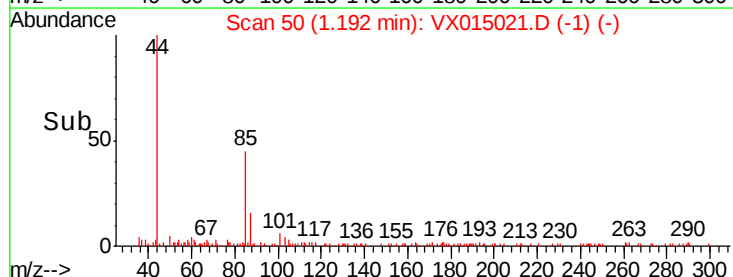
2000

1000

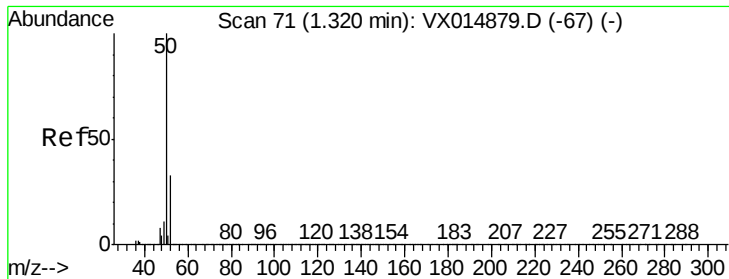
0

1.19

1.15 1.20 1.25



Time-->



#3

Chloromethane

Concen: 0.314 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

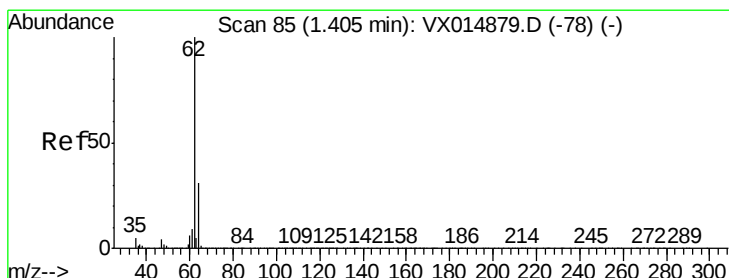
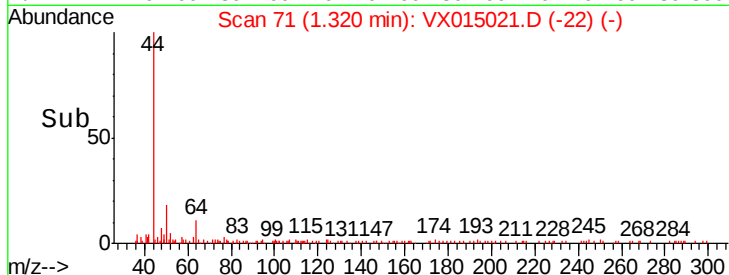
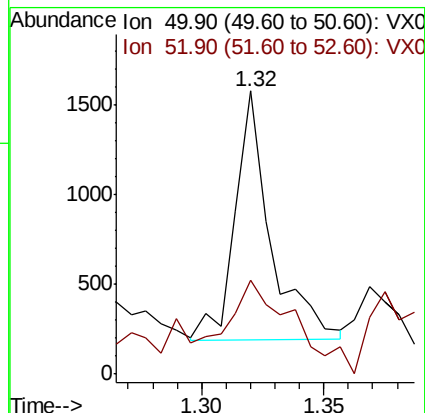
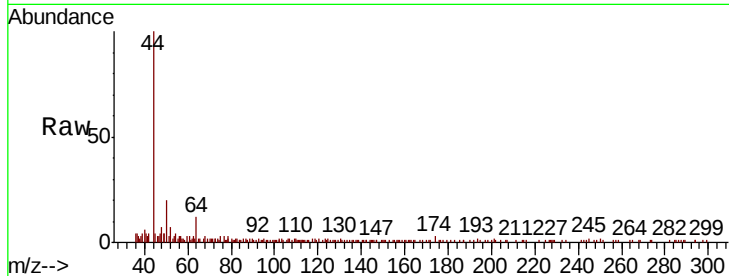
ClientSampleId :

Tot Ion: 50 Resp: 1410

Ion Ratio Lower Upper

50 100

52 25.0 26.2 39.2#



#4

Vinyl Chloride

Concen: 0.759 ug/l

RT: 1.41 min Scan# 85

Delta R.T. -0.00 min

Lab File: VX015021.D

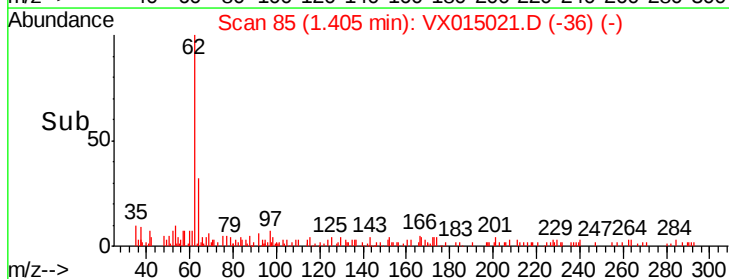
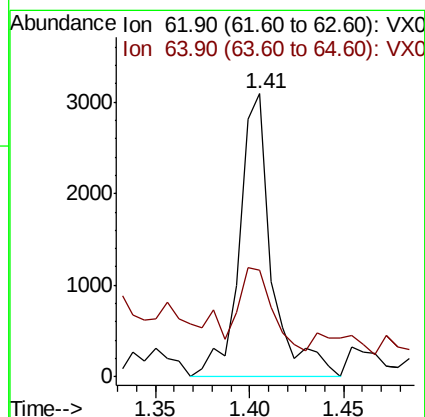
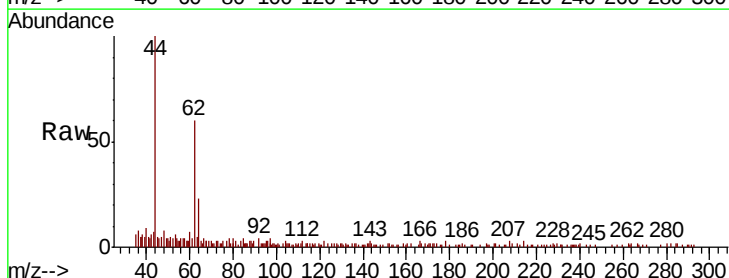
Acq: 26 Feb 2020 15:22

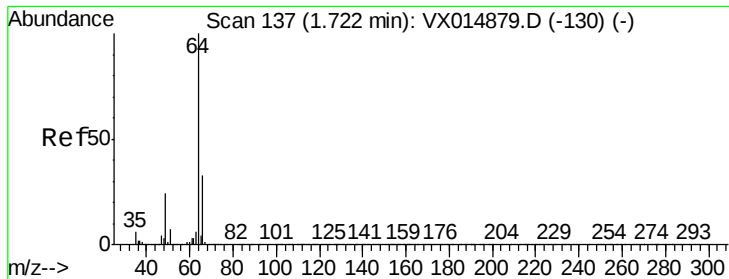
Tgt Ion: 62 Resp: 3668

Ion Ratio Lower Upper

62 100

64 24.2 24.8 37.2#





#6

Chloroethane

Concen: 0.596 ug/l

RT: 1.77 min Scan# 144

Delta R.T. 0.04 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

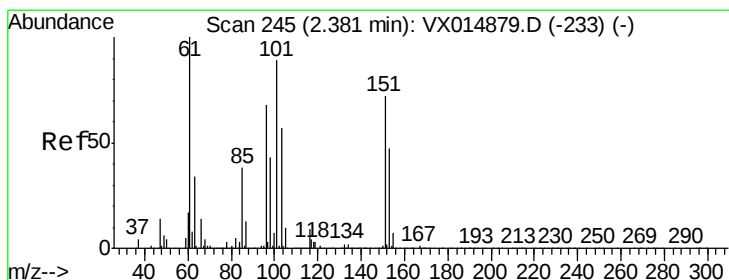
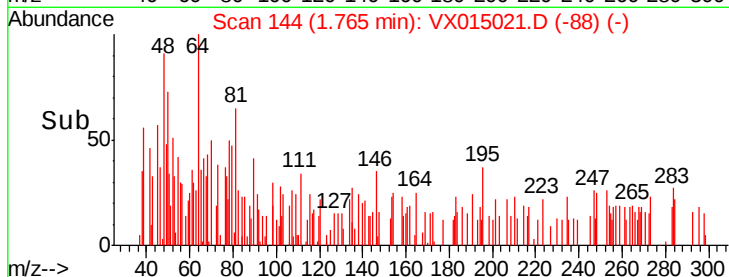
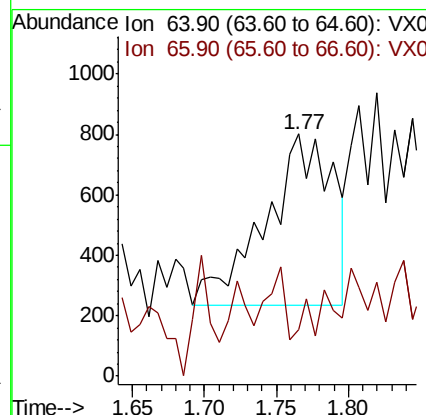
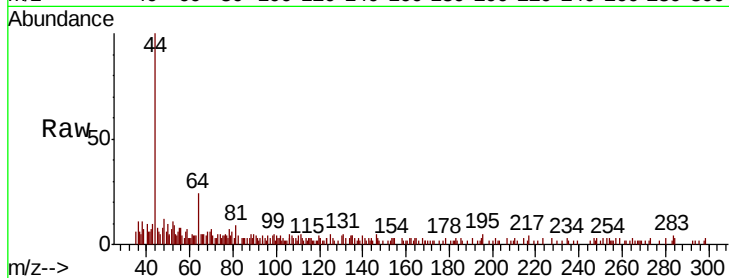
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 1843

Ion Ratio Lower Upper

64 100

66 26.4 26.2 39.4



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.680 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

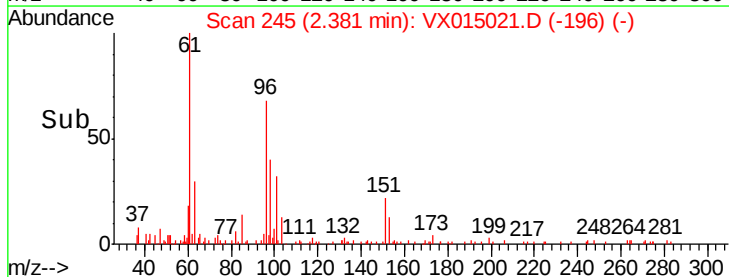
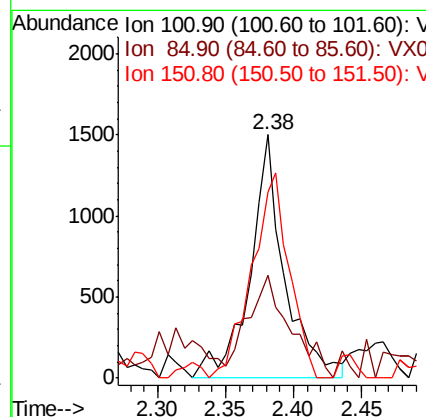
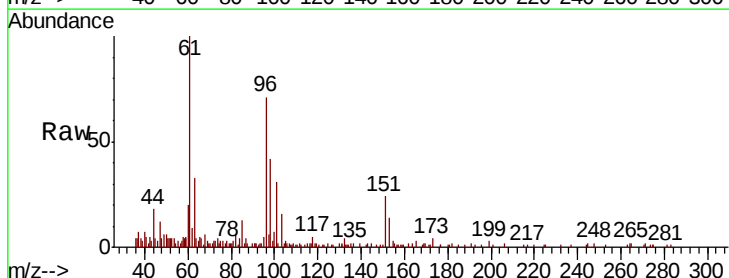
Tgt Ion: 101 Resp: 2665

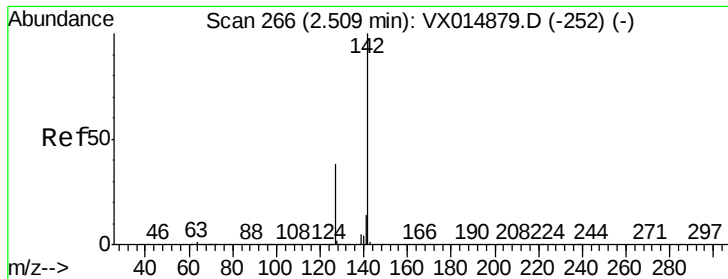
Ion Ratio Lower Upper

101 100

85 52.6 34.1 51.1#

151 91.3 67.3 100.9





#10

Methyl Iodide

Concen: 4.489 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX015021.D

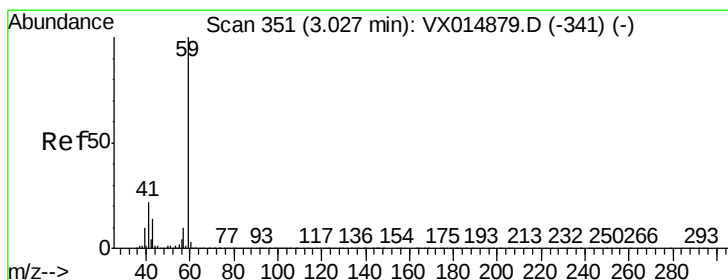
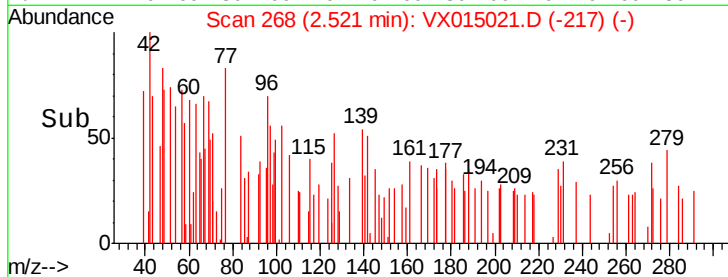
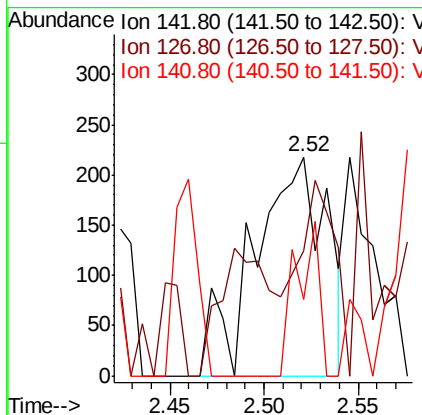
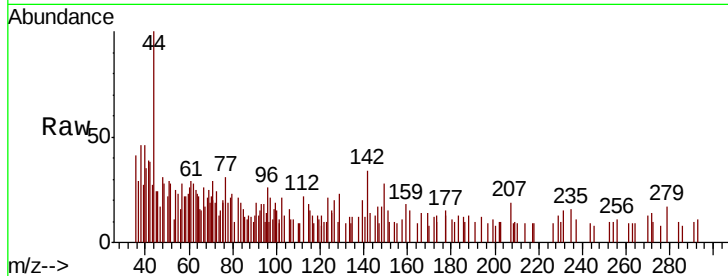
Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	142	Resp:	577
Ion	Ratio	Lower	Upper
142	100		
127	45.1	31.1	46.7
141	22.5	11.3	16.9#



#11

Tert butyl alcohol

Concen: 0.251 ug/l

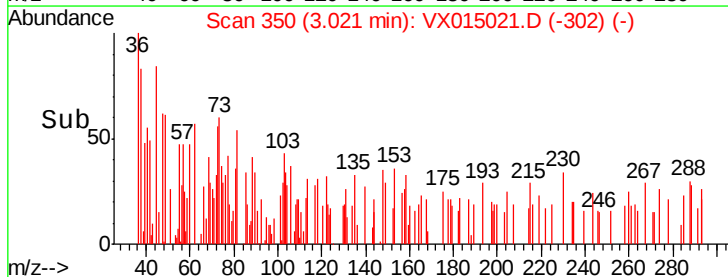
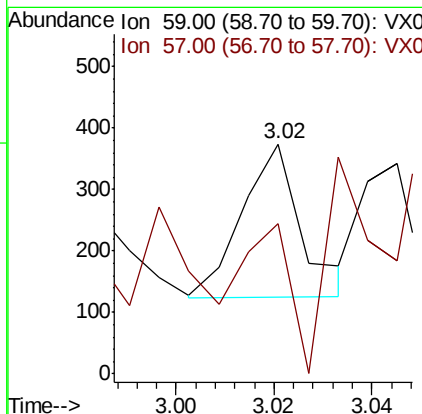
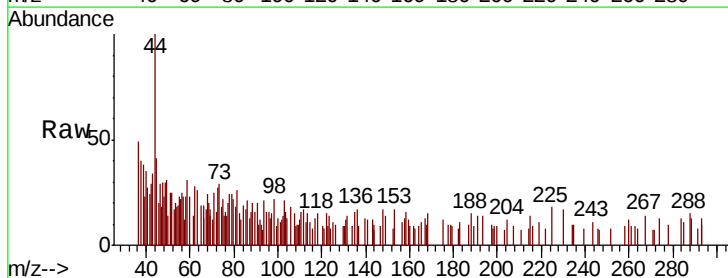
RT: 3.02 min Scan# 350

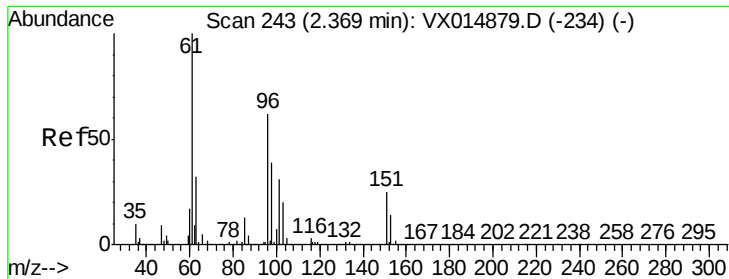
Delta R.T. -0.01 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Tgt Ion:	59	Resp:	209
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#





#12

1,1-Dichloroethene

Concen: 2.271 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

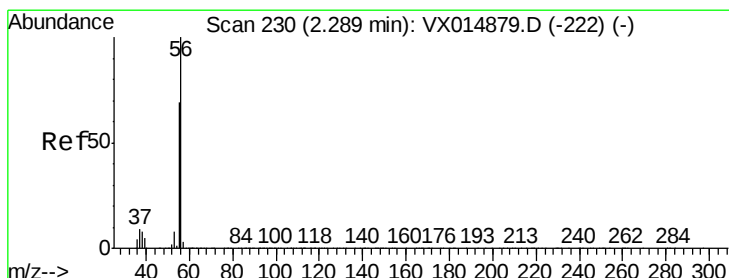
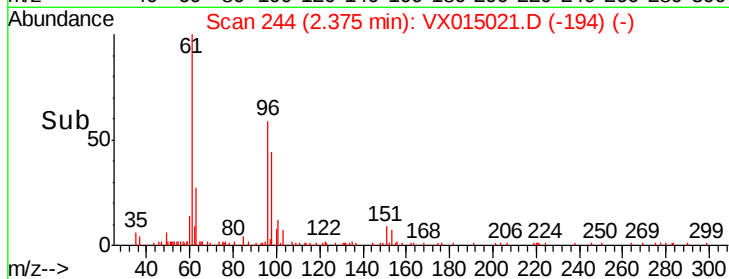
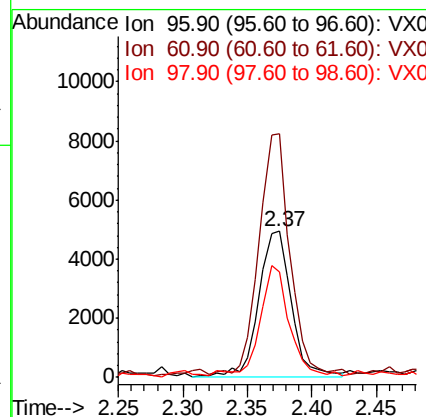
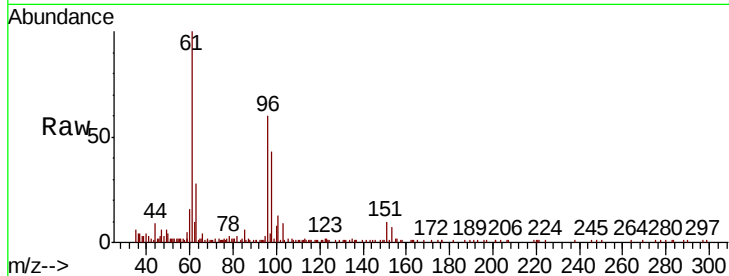
Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 8704

Ion	Ratio	Lower	Upper
96	100		
61	161.6	129.5	194.3
98	70.4	50.6	76.0



#13

Acrolein

Concen: 0.947 ug/l

RT: 2.30 min Scan# 232

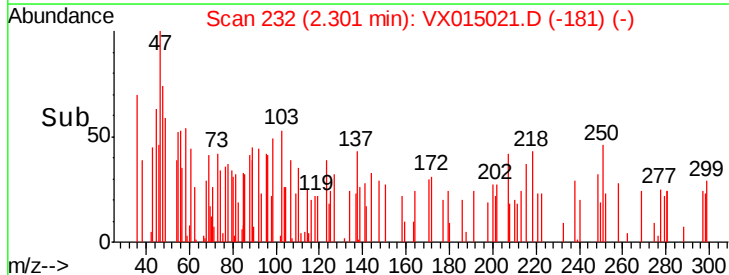
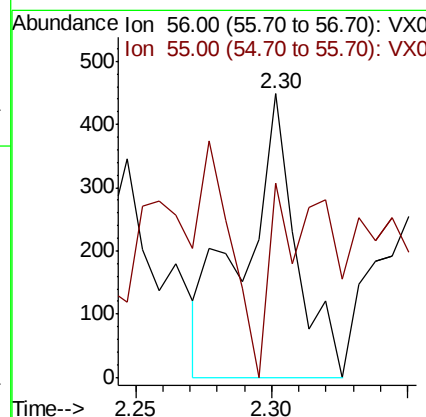
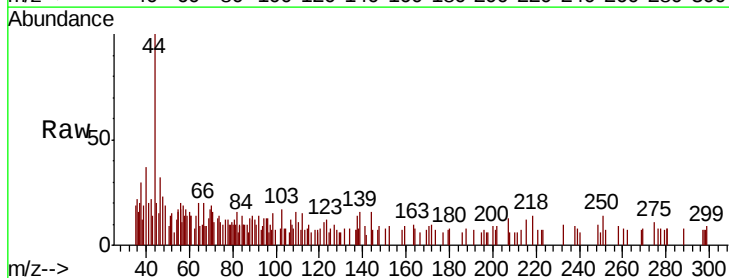
Delta R.T. 0.01 min

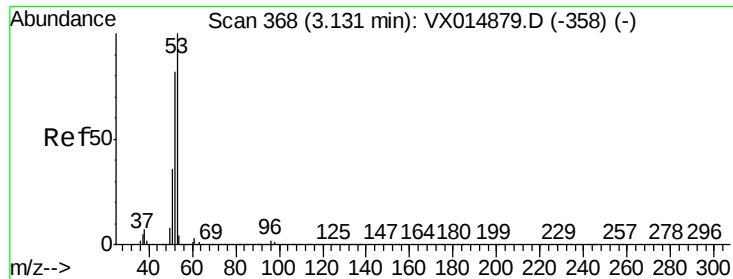
Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Tgt Ion: 56 Resp: 601

Ion	Ratio	Lower	Upper
56	100		
55	72.4	55.0	82.4





#15

Acrylonitrile

Concen: 0.262 ug/l

RT: 3.14 min Scan# 370

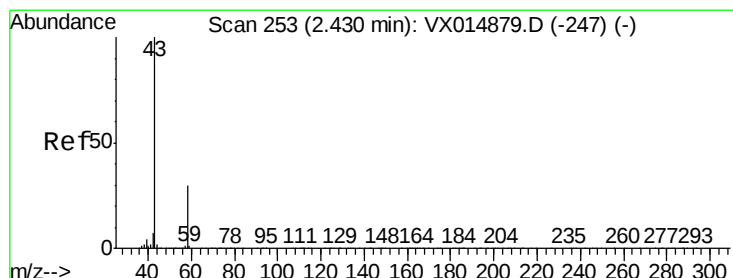
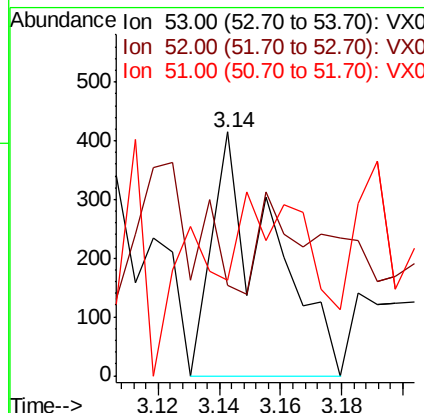
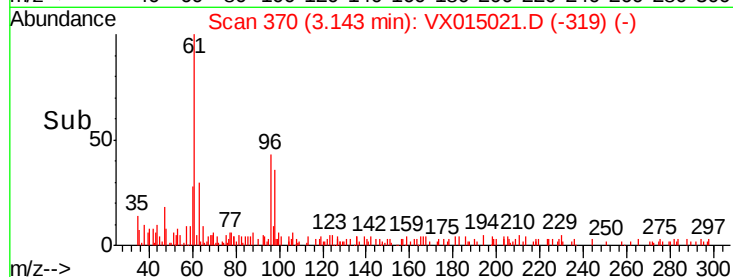
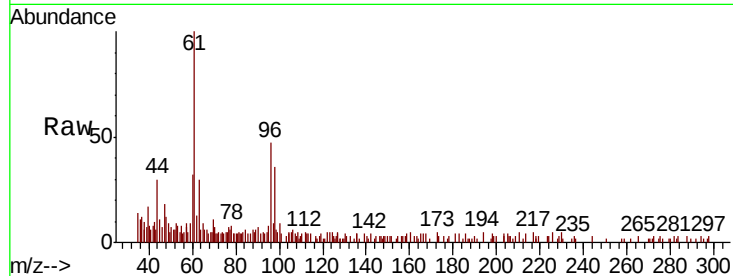
Delta R.T. 0.01 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	554
Ion	Ratio	Lower	Upper
53	100		
52	23.5	65.8	98.6#
51	46.2	29.1	43.7#



#16

Acetone

Concen: Below Cal

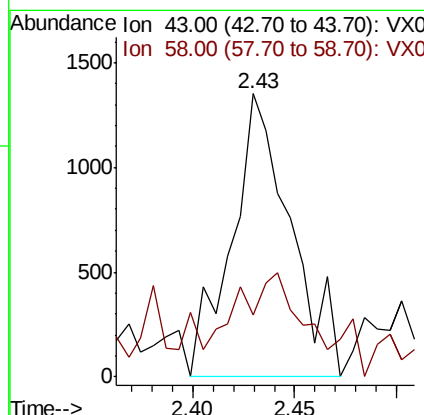
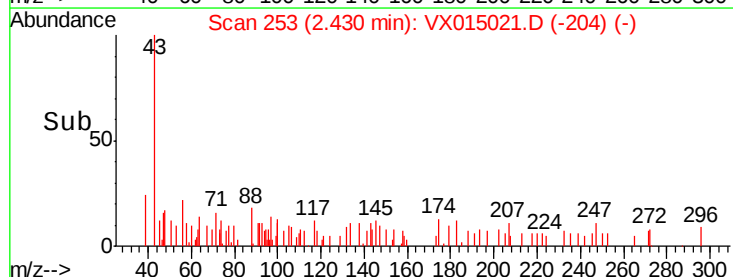
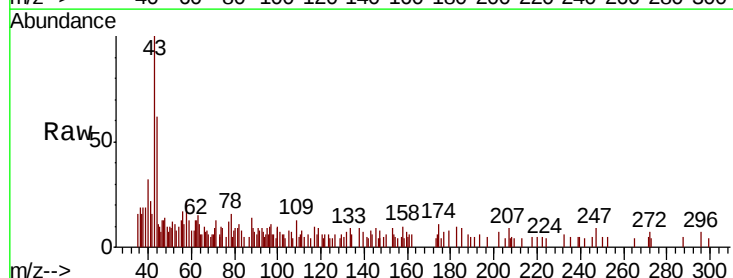
RT: 2.43 min Scan# 253

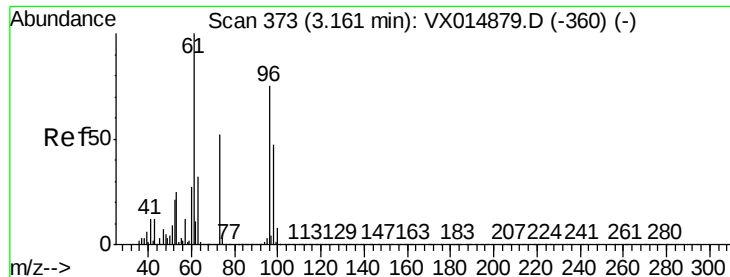
Delta R.T. 0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Tgt Ion:	43	Resp:	2713
Ion	Ratio	Lower	Upper
43	100		
58	8.5	24.1	36.1#





#21

trans-1,2-Dichloroethene

Concen: 2.423 ug/l

RT: 3.16 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

ClientSampleId :

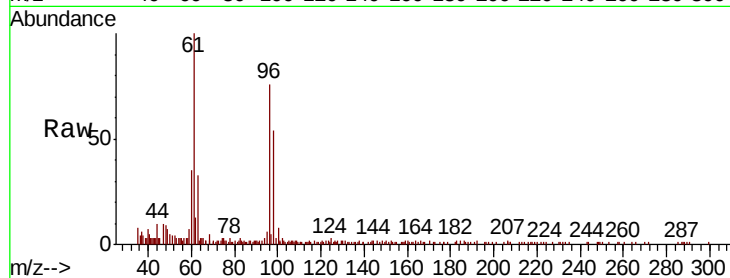
Tot Ion: 96 Resp: 10245

Ion Ratio Lower Upper

96 100

61 132.1 106.9 160.3

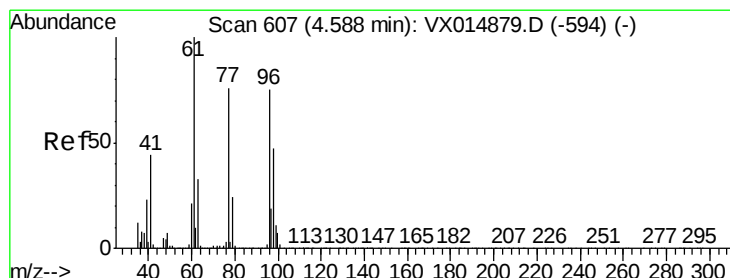
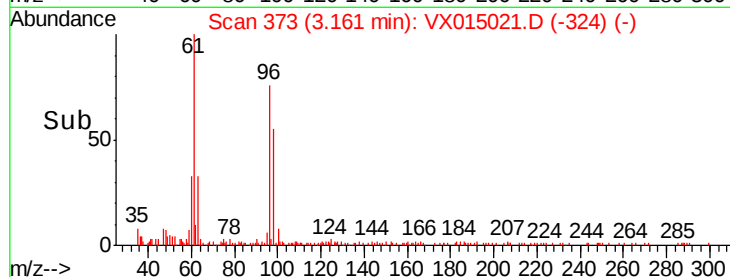
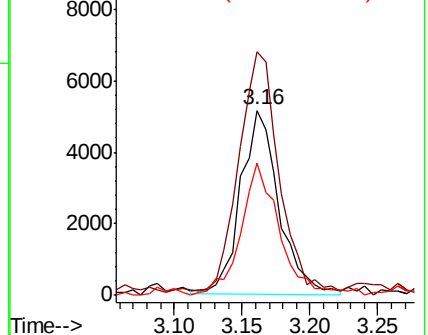
98 73.2 50.7 76.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 64.831 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

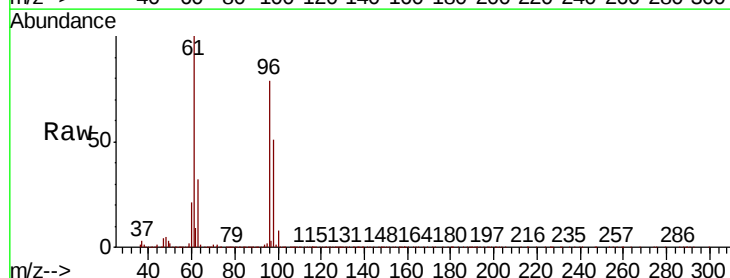
Tgt Ion: 96 Resp: 306425

Ion Ratio Lower Upper

96 100

61 125.1 0.0 286.2

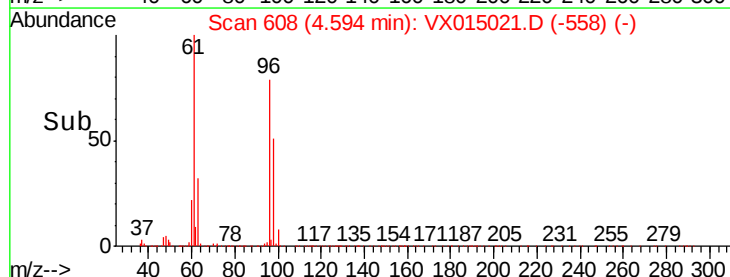
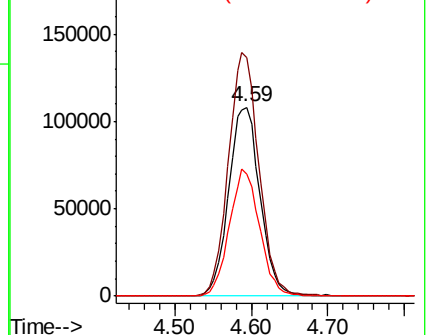
98 64.4 0.0 131.0

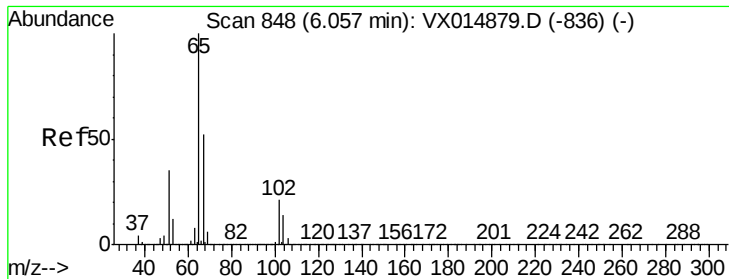


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.842 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

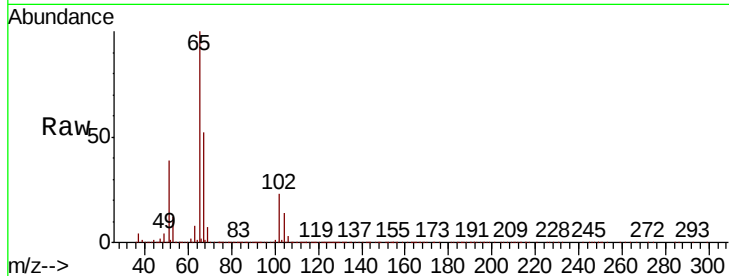
ClientSampled :

Tot Ion: 65 Resp: 239881

Ion Ratio Lower Upper

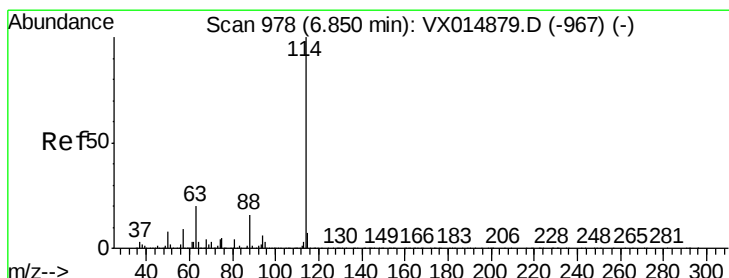
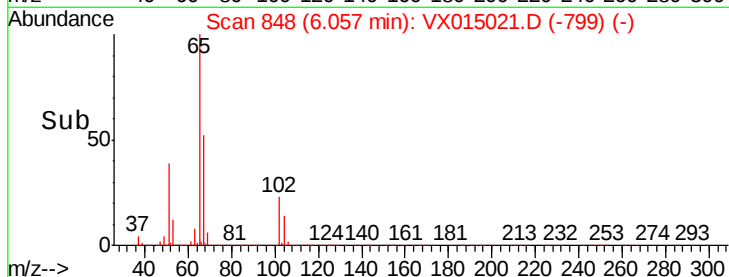
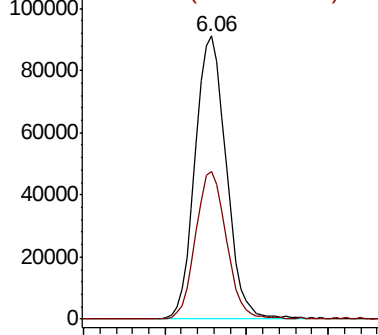
65 100

67 51.3 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

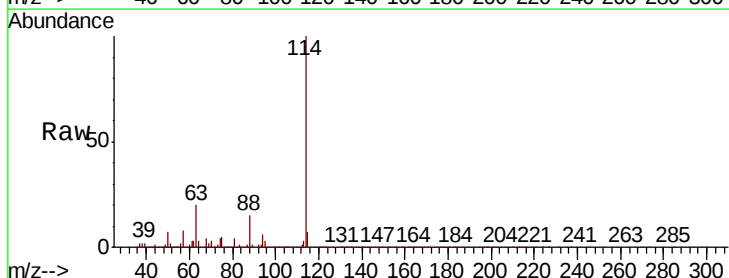
Tgt Ion: 114 Resp: 657182

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

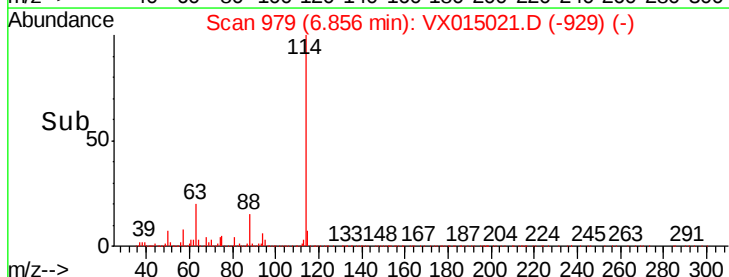
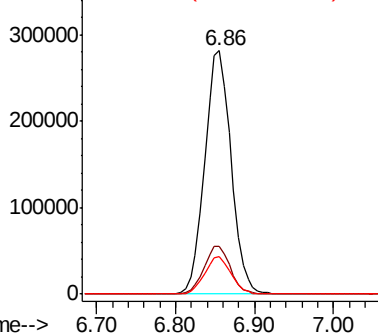
88 15.3 0.0 32.0

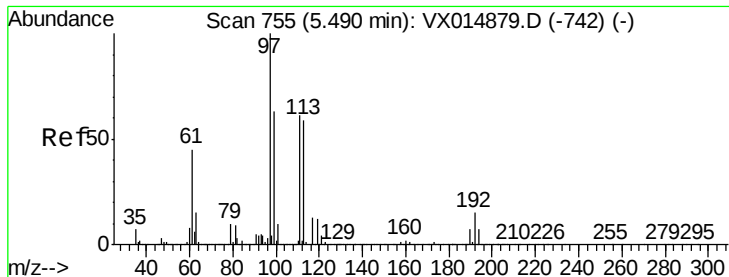


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.747 ug/l

RT: 5.49 min Scan# 755

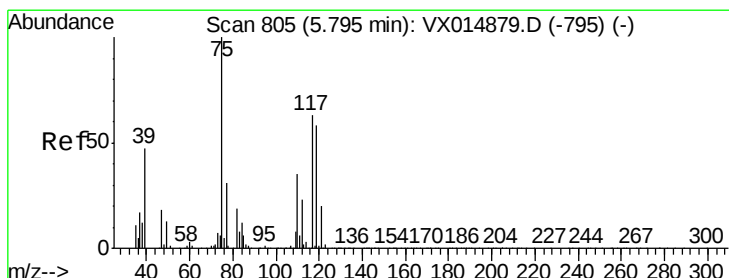
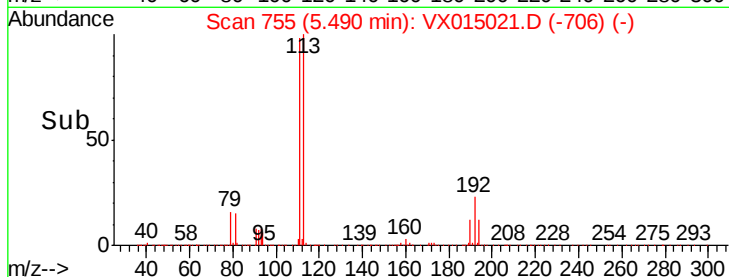
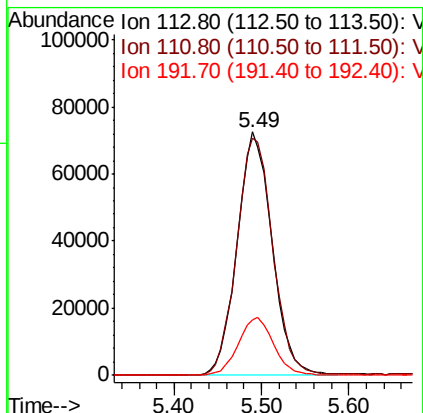
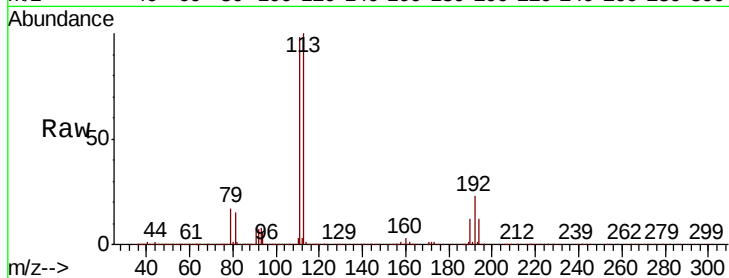
Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	200989
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.4	123.6
192	24.2	19.1	28.7



#36

1,1-Dichloropropene

Concen: 4.977 ug/l

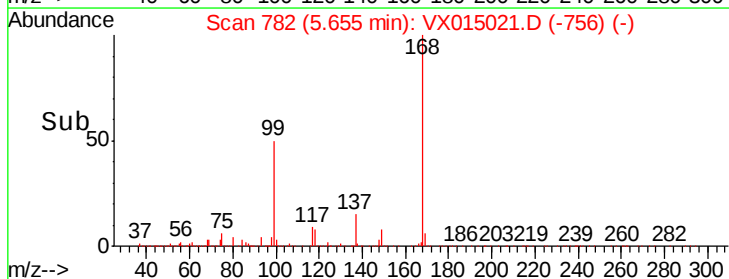
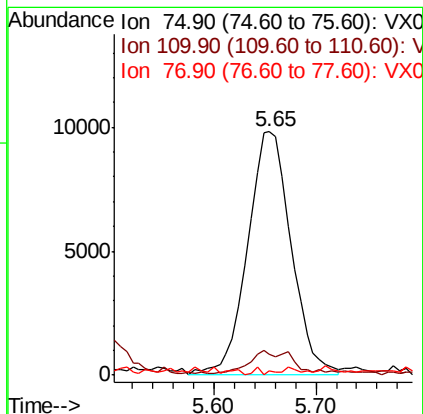
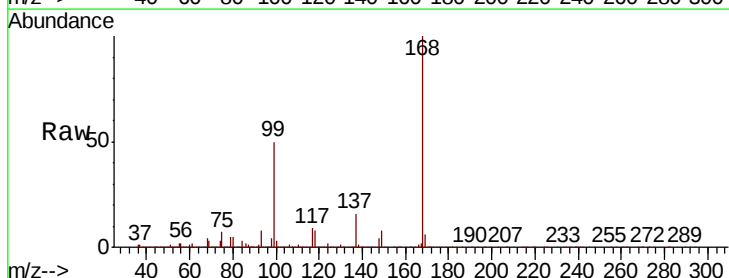
RT: 5.65 min Scan# 782

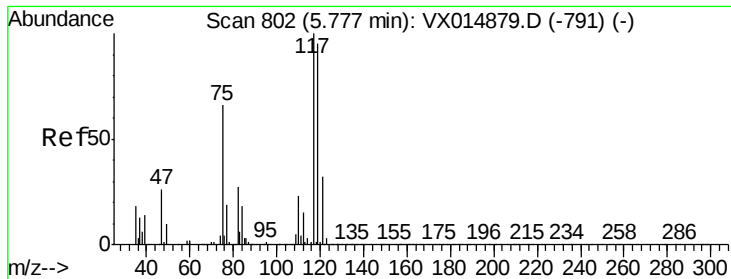
Delta R.T. -0.14 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Tgt Ion:	75	Resp:	29257
Ion	Ratio	Lower	Upper
75	100		
110	5.5	18.3	54.8#
77	0.5	24.6	36.8#

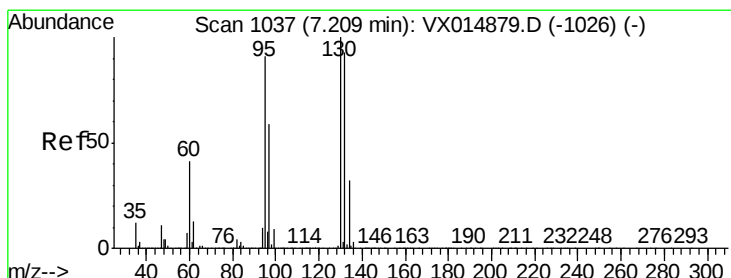
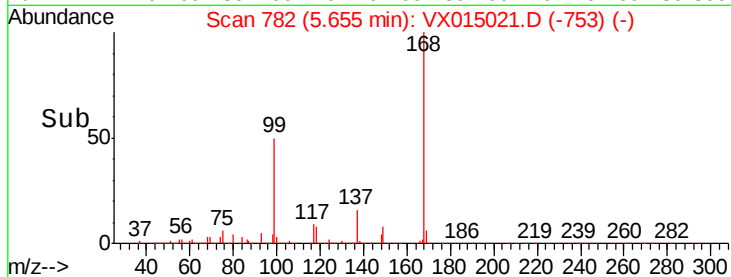
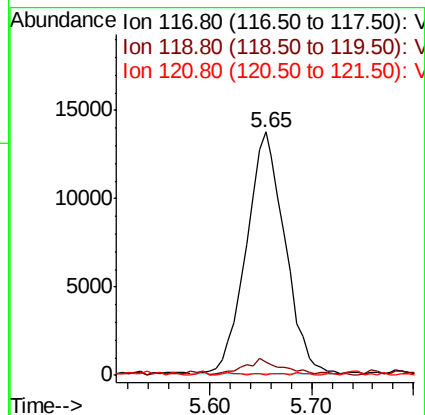
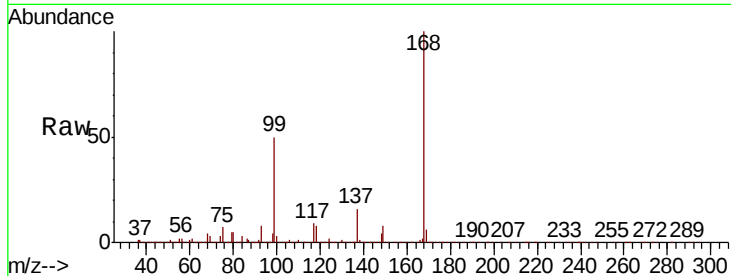




#38
Carbon Tetrachloride
Concen: 6.308 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX015021.D
Acq: 26 Feb 2020 15:22

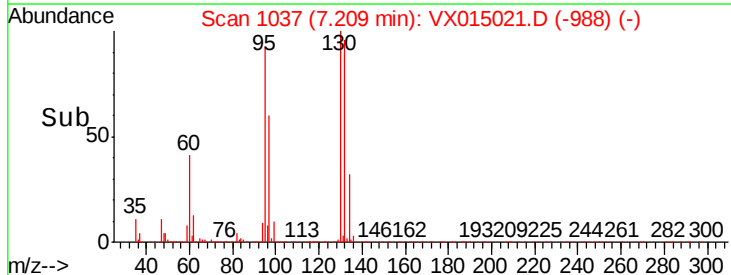
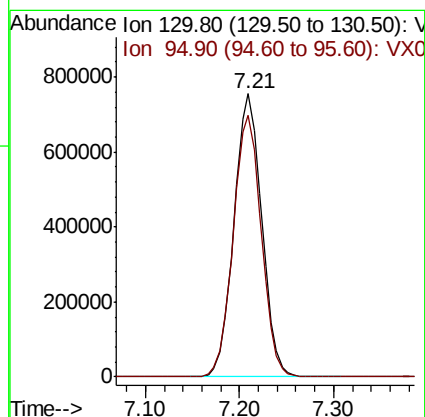
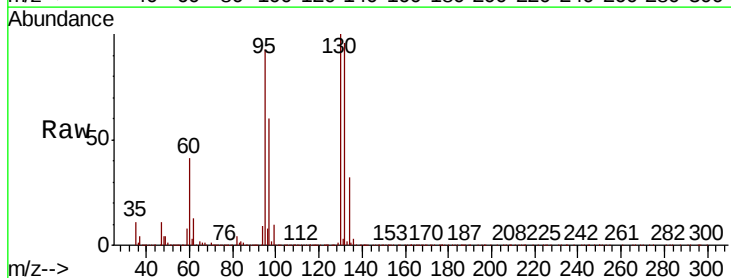
Instrument :
MSVOA_X
ClientSampleId :

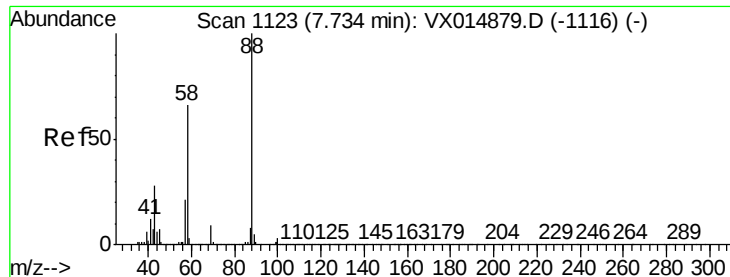
Tot Ion:117 Resp: 36139
Ion Ratio Lower Upper
117 100
119 4.5 76.0 114.0#
121 0.0 25.4 38.2#



#44
Trichloroethene
Concen: 304.016 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX015021.D
Acq: 26 Feb 2020 15:22

Tgt Ion:130 Resp: 1550160
Ion Ratio Lower Upper
130 100
95 92.5 0.0 182.6





#49

1,4-Dioxane

Concen: 1.891 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

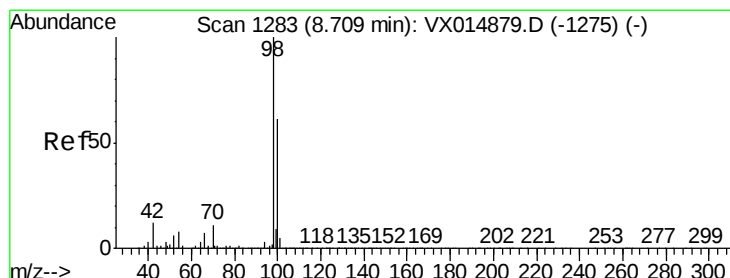
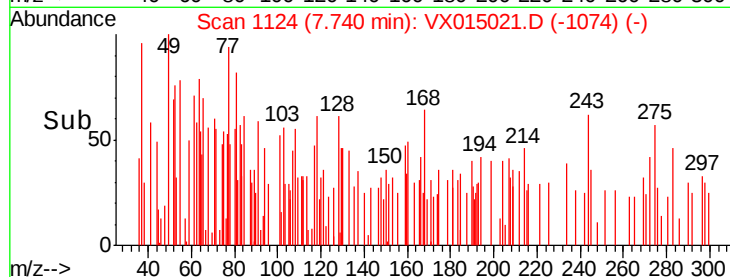
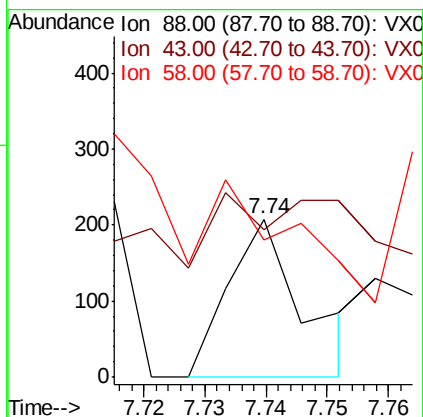
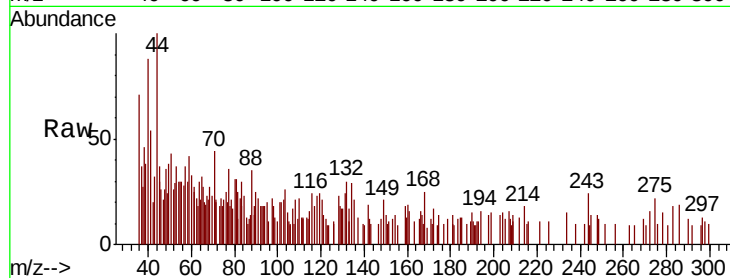
Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 176

Ion	Ratio	Lower	Upper
88	100		
43	365.3	27.0	40.4#
58	0.0	53.2	79.8#



#50

Toluene-d8

Concen: 51.409 ug/l

RT: 8.71 min Scan# 1283

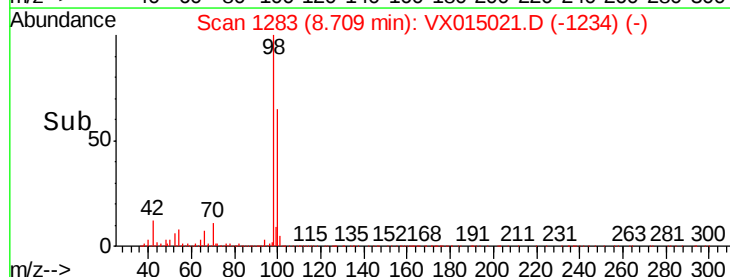
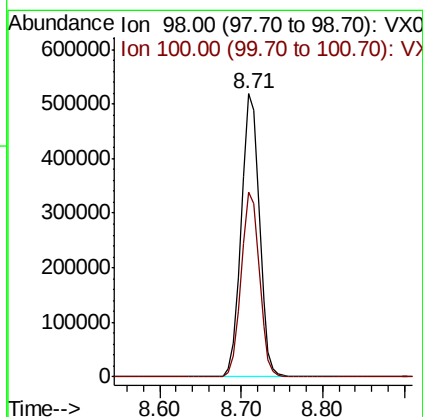
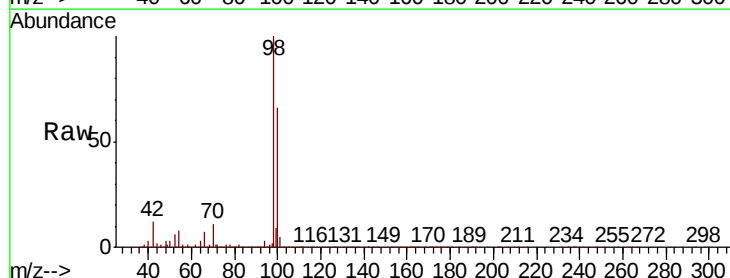
Delta R.T. -0.00 min

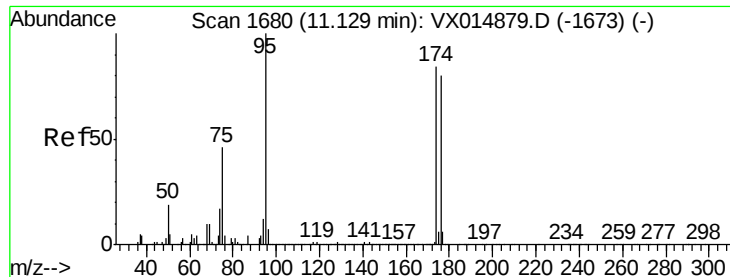
Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Tgt Ion: 98 Resp: 792821

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.4	78.6





#62

4-Bromofluorobenzene

Concen: 53.754 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

ClientSampleId :

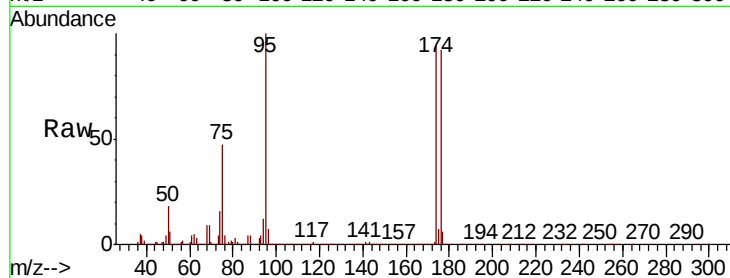
Tot Ion: 95 Resp: 298625

Ion Ratio Lower Upper

95 100

174 89.3 0.0 183.0

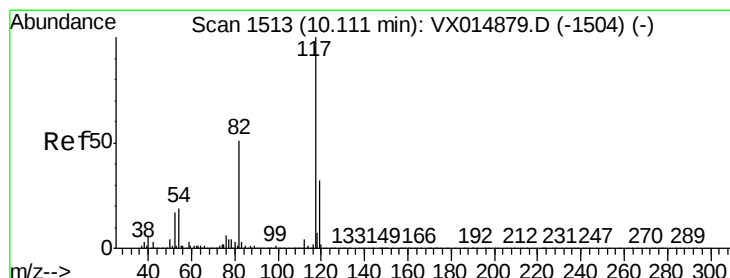
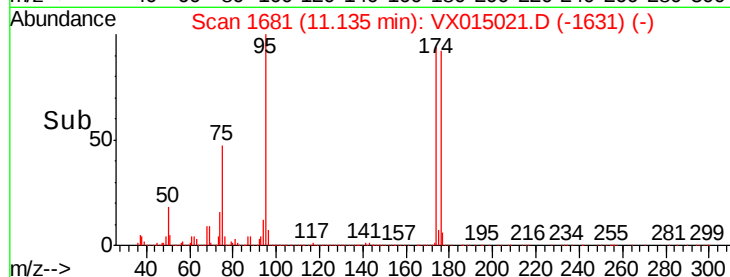
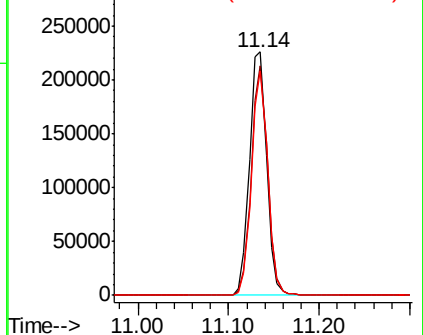
176 86.8 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

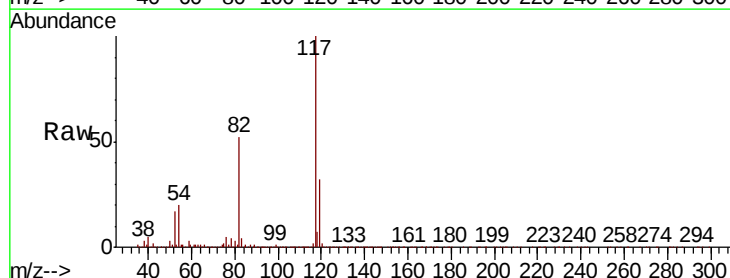
Tgt Ion: 117 Resp: 636509

Ion Ratio Lower Upper

117 100

82 52.0 40.5 60.7

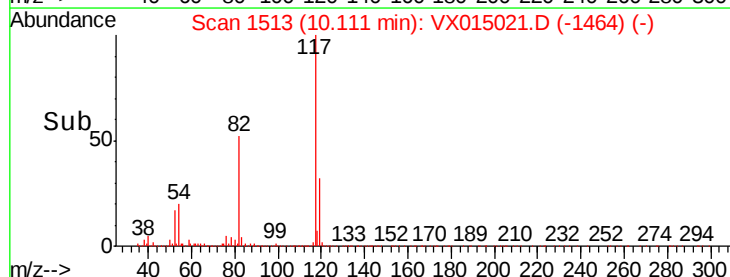
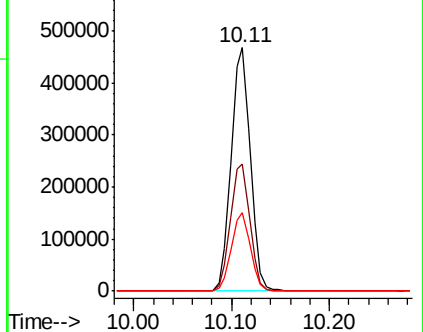
119 32.2 25.8 38.6

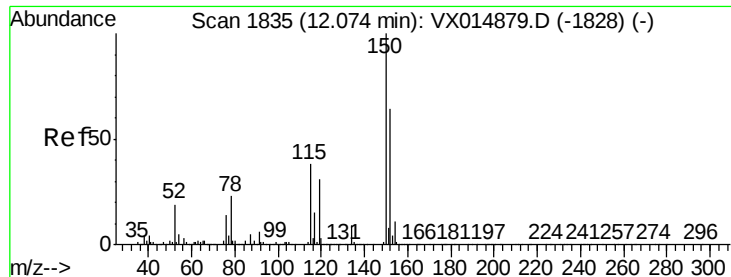


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



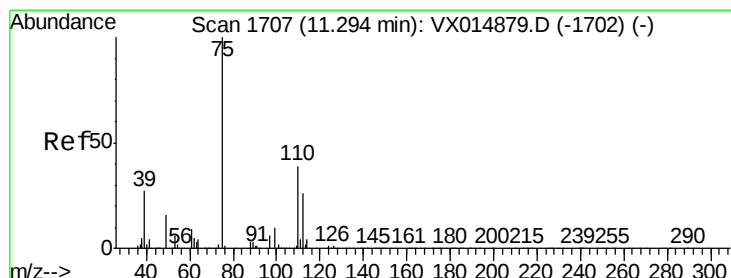
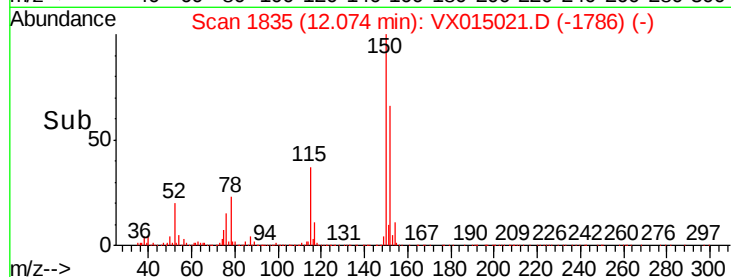
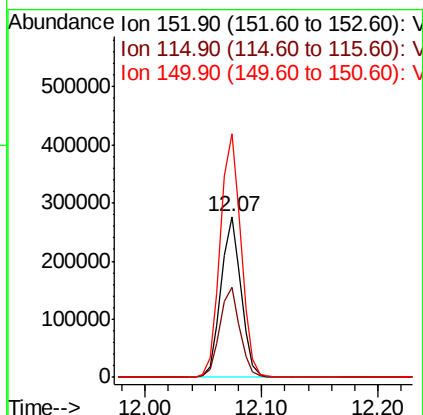
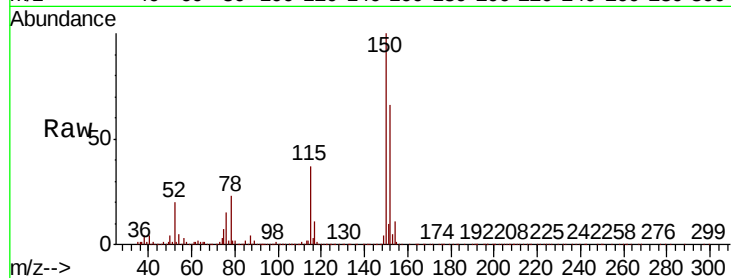


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015021.D
Acq: 26 Feb 2020 15:22

Instrument :
MSVOA_X
ClientSampleId :

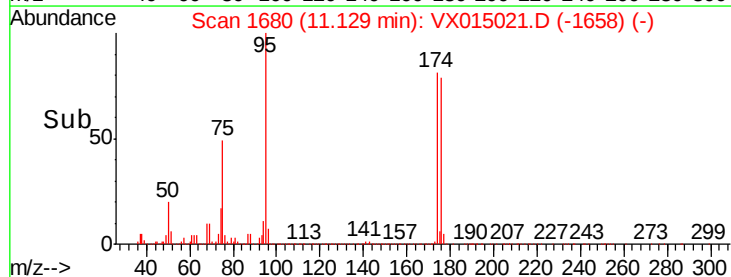
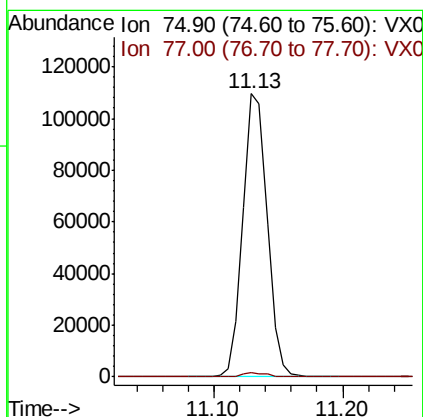
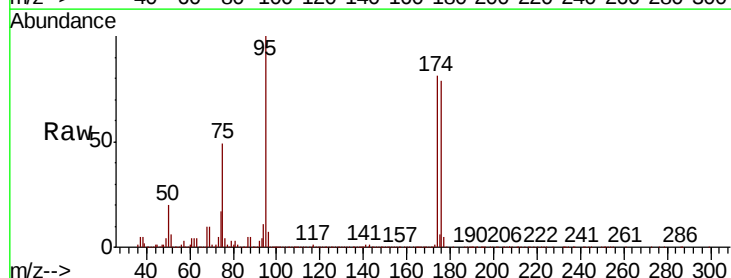
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.4	38.6	116.0
150	157.0	0.0	349.0

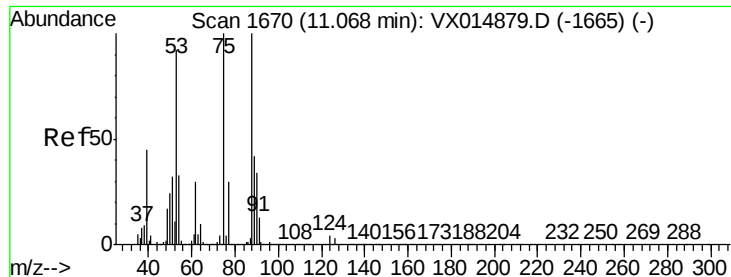


#76

1,2,3-Trichloropropane
Concen: 24.242 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX015021.D
Acq: 26 Feb 2020 15:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	18.4	55.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.053 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015021.D

Acq: 26 Feb 2020 15:22

Instrument :

MSVOA_X

ClientSampleId :

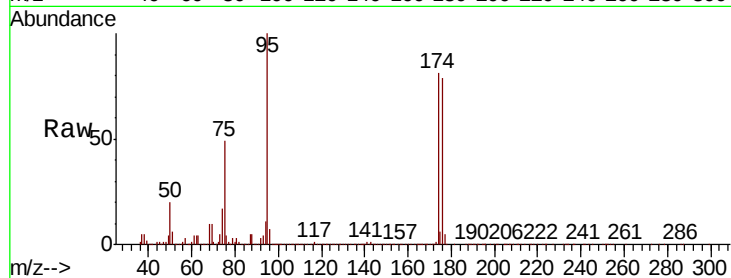
Tot Ion: 75 Resp: 143279

Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

89 0.2 35.8 53.6#



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

