

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040820\
 Data File : VX015578.D
 Acq On : 08 Apr 2020 18:40
 Operator : JC/SP
 Sample : L2190-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-200407

Quant Time: Apr 09 06:25:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1054382	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1684317	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1611786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	908578	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	697976	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
35) Dibromofluoromethane	5.47	113	528669	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	8.70	98	2008383	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	11.12	95	873032	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	

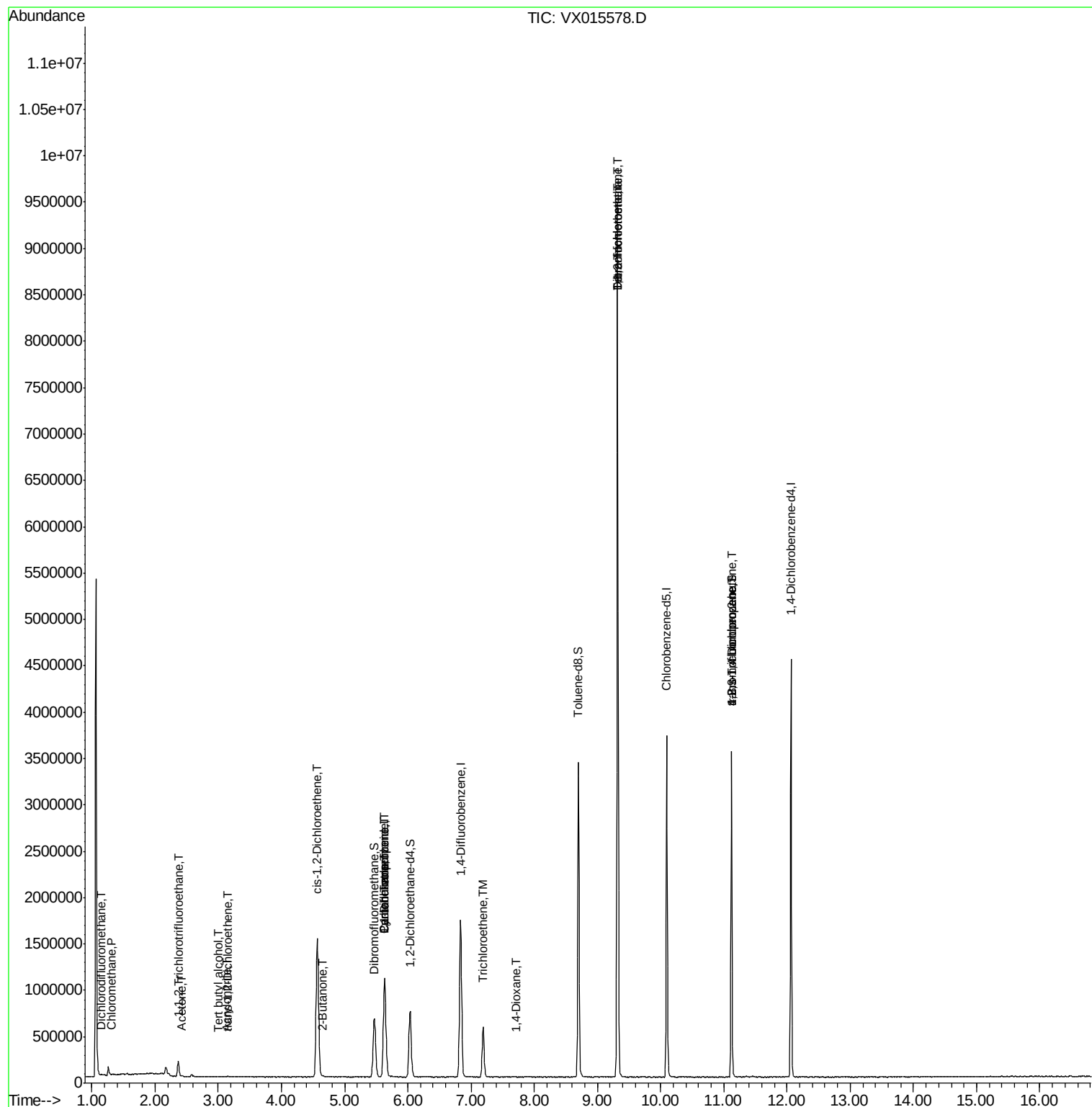
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.16	85	2152	0.232	ug/l #	43
3) Chloromethane	1.31	50	3448	0.291	ug/l	98
5) Bromomethane	1.65	94	1324	Below Cal	#	28
9) 1,1,2-Trichlorotrifluoroet	2.37	101	64887	6.833	ug/l	94
11) Tert butyl alcohol	3.00	59	2631	0.739	ug/l #	52
15) Acrylonitrile	3.14	53	1498	0.221	ug/l #	31
16) Acetone	2.42	43	12979	2.031	ug/l #	84
21) trans-1,2-Dichloroethene	3.14	96	3114	0.282	ug/l #	68
25) 2-Butanone	4.65	43	3294	0.321	ug/l #	84
27) cis-1,2-Dichloroethene	4.57	96	932993	72.996	ug/l	90
31) Cyclohexane	5.64	56	21323	1.133	ug/l #	25
36) 1,1-Dichloropropene	5.63	75	80436	5.183	ug/l #	52
38) Carbon Tetrachloride	5.63	117	100362	5.971	ug/l #	15
44) Trichloroethene	7.19	130	212027	17.102	ug/l	96
49) 1,4-Dioxane	7.72	88	254	0.799	ug/l #	1
55) 1,1,2-Trichloroethane	9.32	97	15526	1.352	ug/l #	4
60) Dibromochloromethane	9.32	129	1614234	116.989	ug/l #	11
64) Tetrachloroethene	9.32	164	1809377	148.752	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	450178	24.094	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	450178	57.813	ug/l #	10

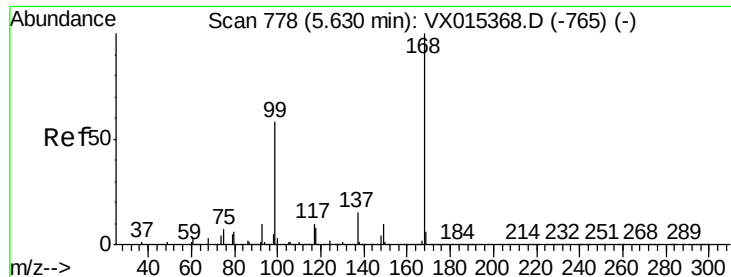
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

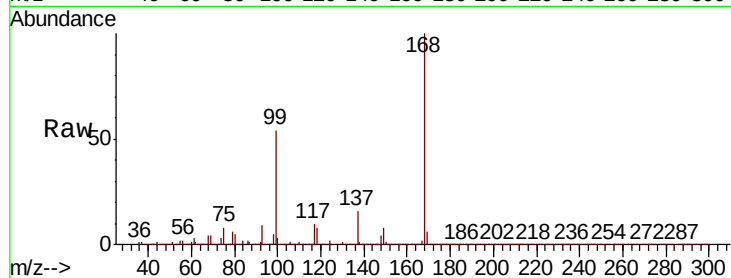
M-19-200407

Tot Ion:168 Resp: 1054382

Ion Ratio Lower Upper

168 100

99 54.3 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

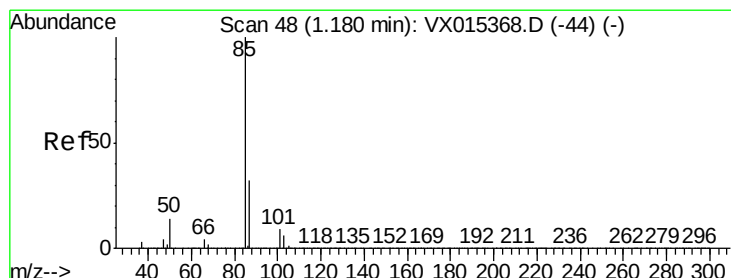
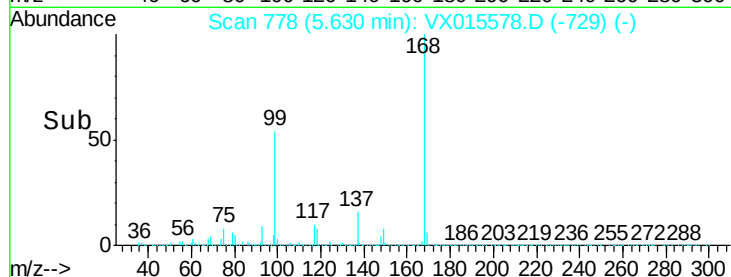
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.232 ug/l

RT: 1.16 min Scan# 44

Delta R.T. -0.02 min

Lab File: VX015578.D

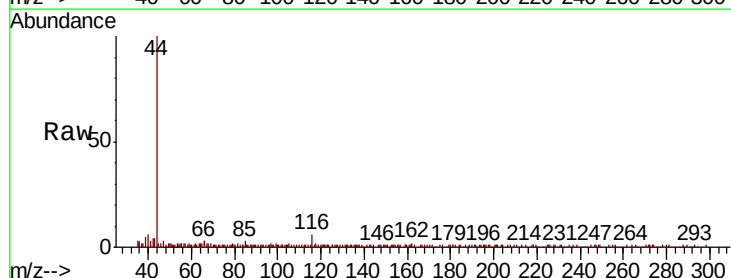
Acq: 08 Apr 2020 18:40

Tgt Ion: 85 Resp: 2152

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.16

800

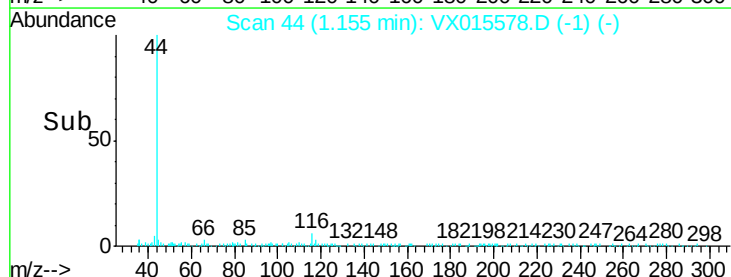
600

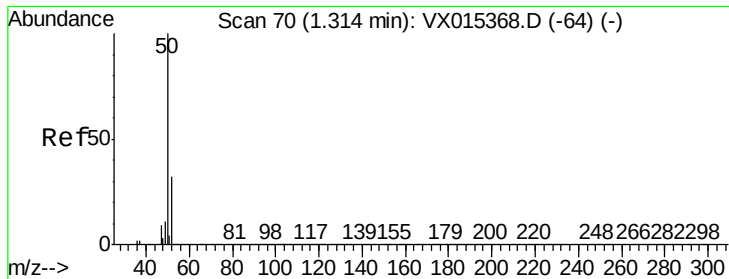
400

200

0

Time-->





#3

Chloromethane

Concen: 0.291 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

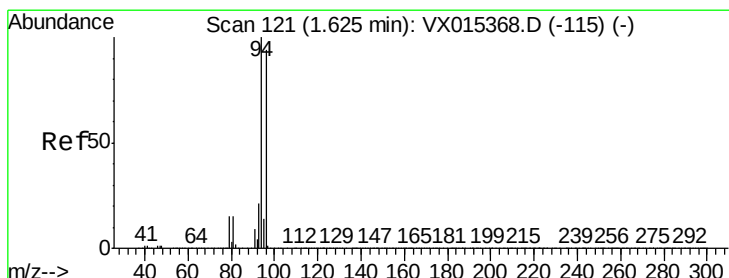
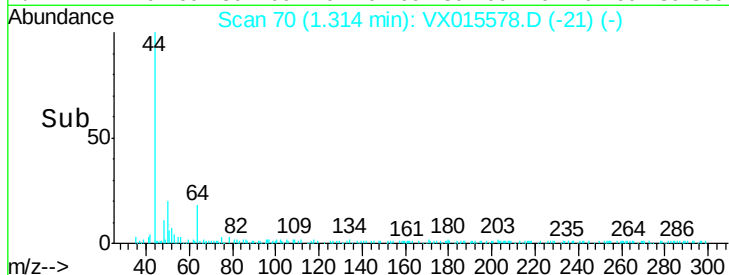
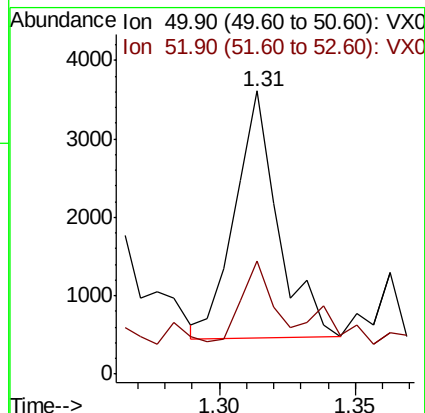
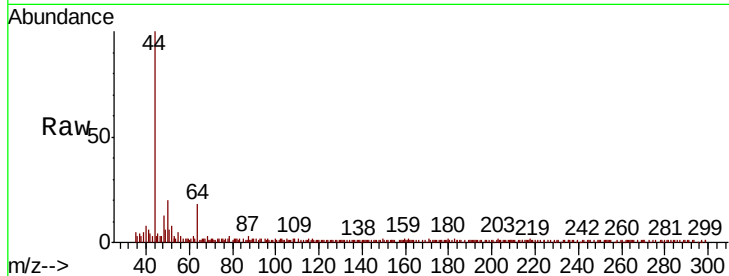
M-19-200407

Tot Ion: 50 Resp: 3448

Ion Ratio Lower Upper

50 100

52 30.4 25.3 37.9



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.03 min

Lab File: VX015578.D

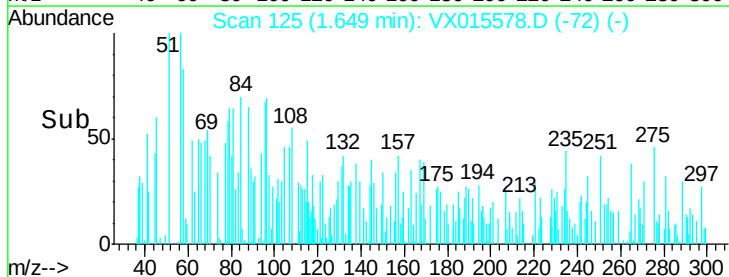
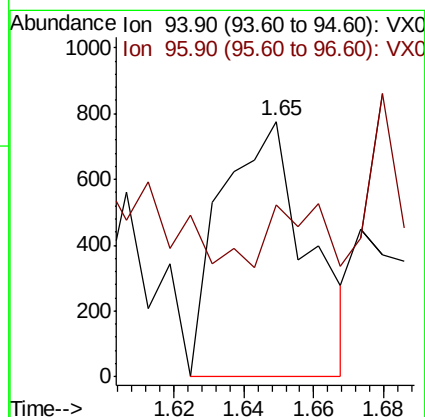
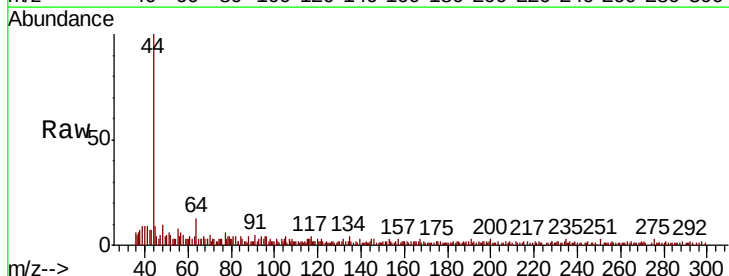
Acq: 08 Apr 2020 18:40

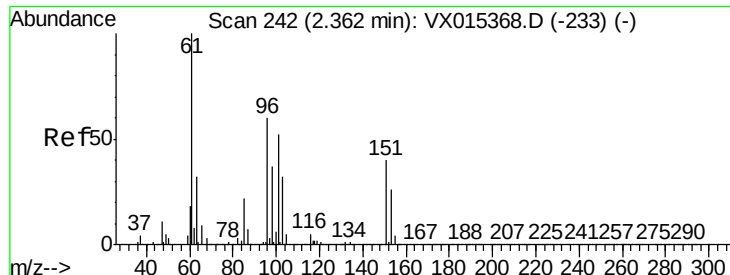
Tgt Ion: 94 Resp: 1324

Ion Ratio Lower Upper

94 100

96 24.1 74.8 112.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.833 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

M-19-200407

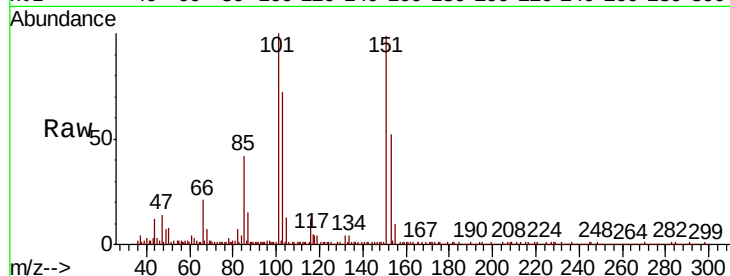
Tot Ion:101 Resp: 64887

Ion Ratio Lower Upper

101 100

85 45.6 35.0 52.4

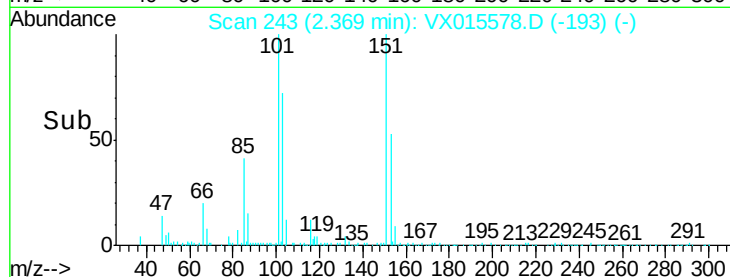
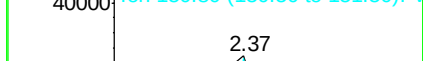
151 86.4 64.1 96.1



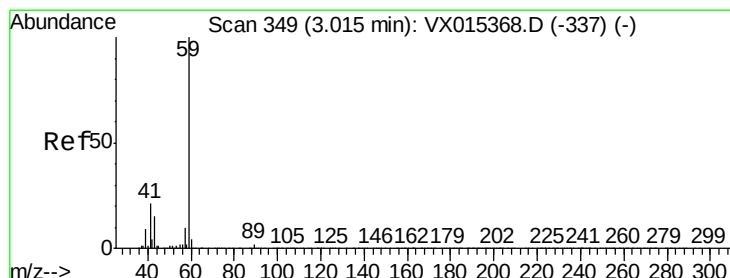
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



Time-->



#11

Tert butyl alcohol

Concen: 0.739 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015578.D

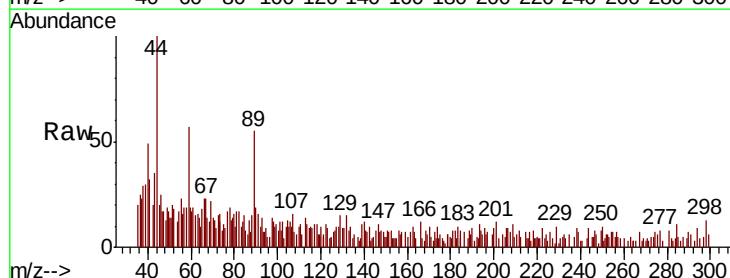
Acq: 08 Apr 2020 18:40

Tgt Ion: 59 Resp: 2631

Ion Ratio Lower Upper

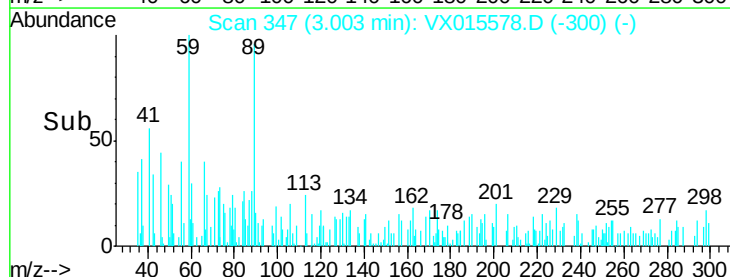
59 100

57 28.1 8.1 12.1#

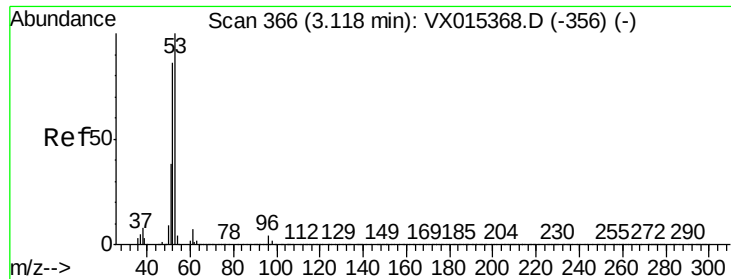


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.221 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.02 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampled :

M-19-200407

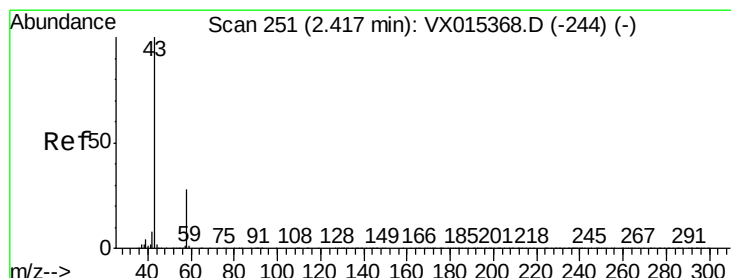
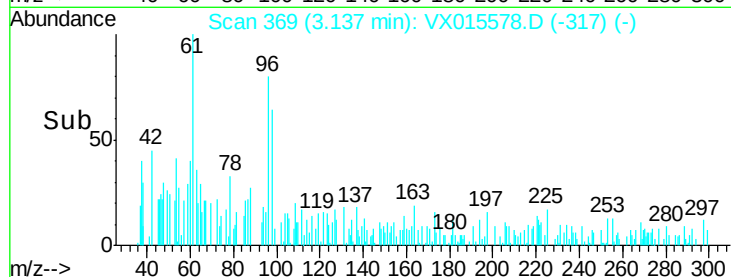
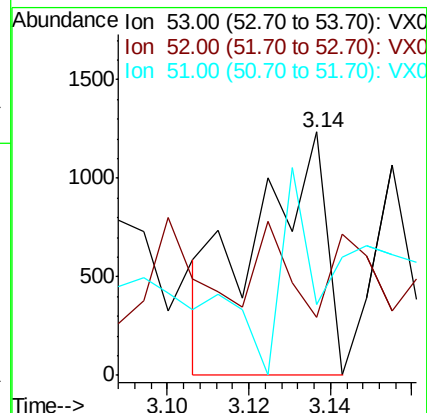
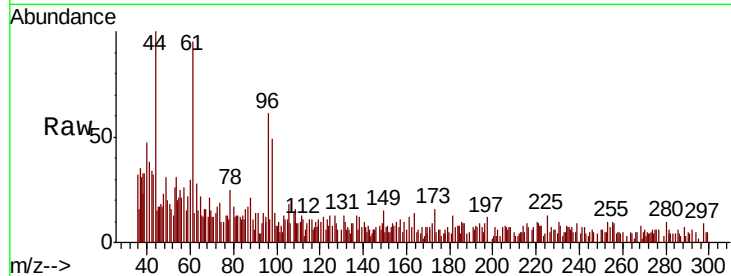
Tot Ion: 53 Resp: 1498

Ion Ratio Lower Upper

53 100

52 18.8 66.8 100.2#

51 0.0 29.5 44.3#



#16

Acetone

Concen: 2.031 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015578.D

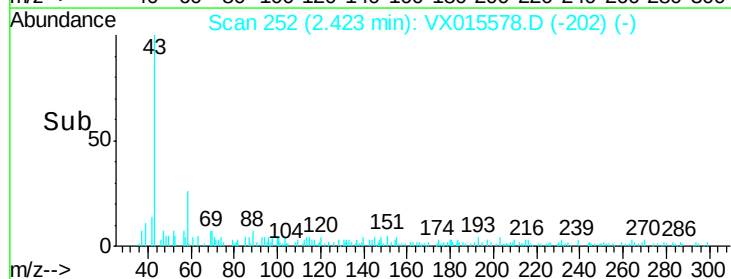
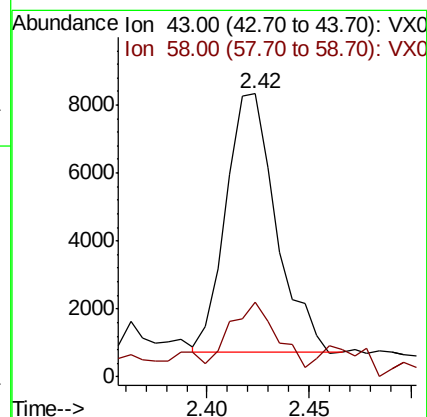
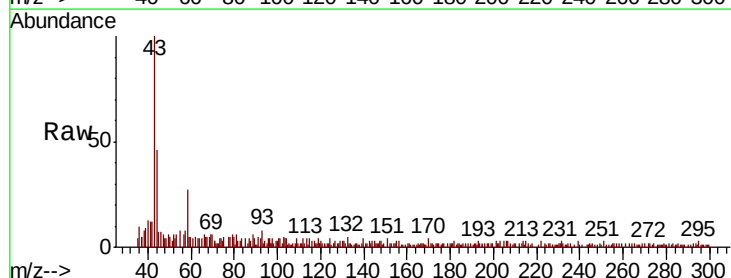
Acq: 08 Apr 2020 18:40

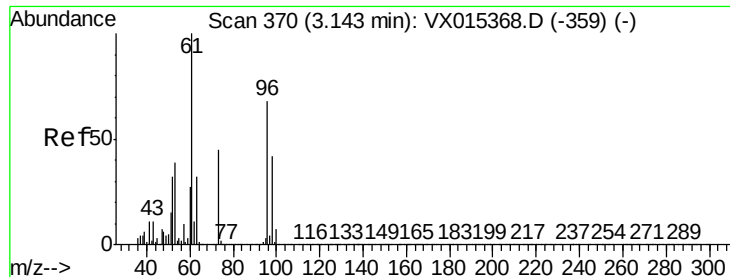
Tgt Ion: 43 Resp: 12979

Ion Ratio Lower Upper

43 100

58 19.5 22.1 33.1#





#21

trans-1,2-Dichloroethene

Concen: 0.282 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampled :

M-19-200407

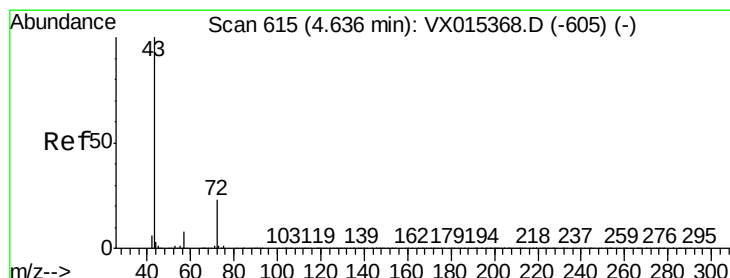
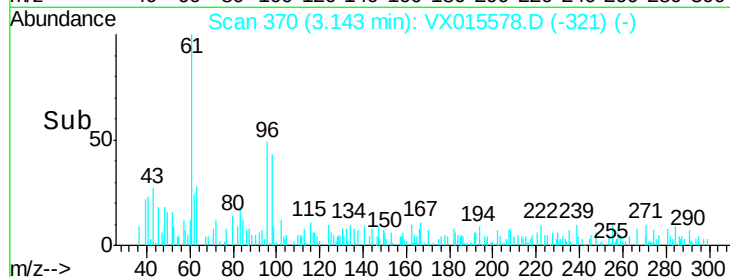
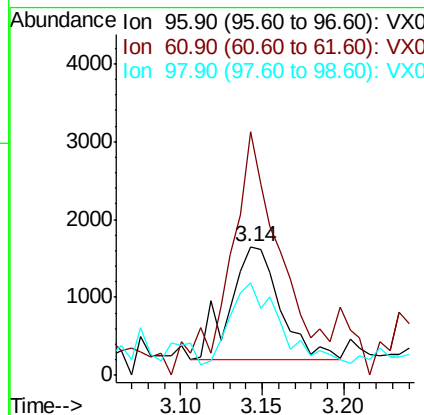
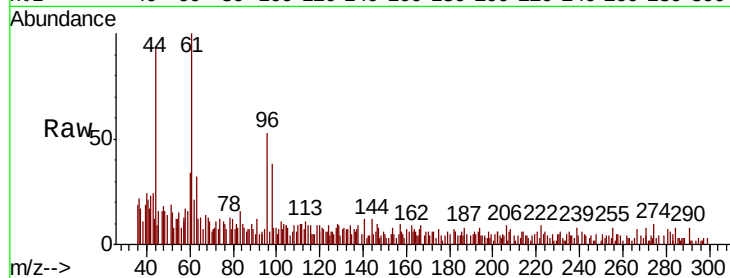
Tot Ion: 96 Resp: 3114

Ion Ratio Lower Upper

96 100

61 196.7 116.9 175.3#

98 68.8 48.6 73.0



#25

2-Butanone

Concen: 0.321 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015578.D

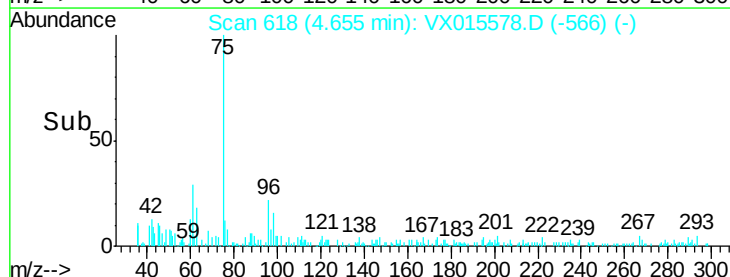
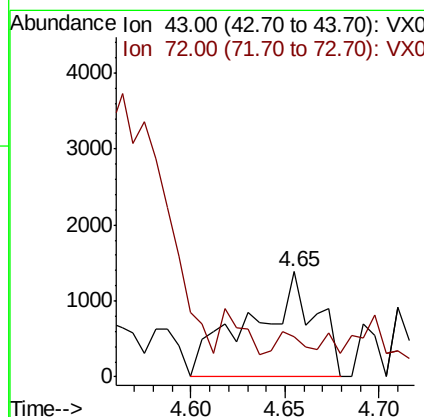
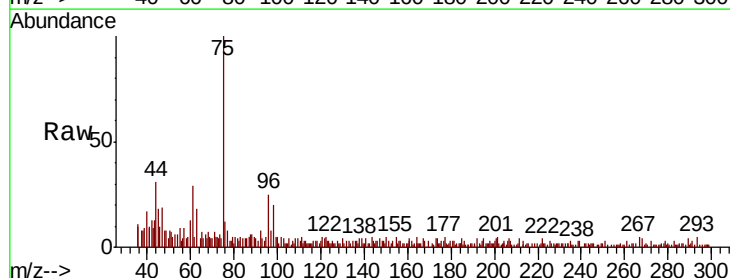
Acq: 08 Apr 2020 18:40

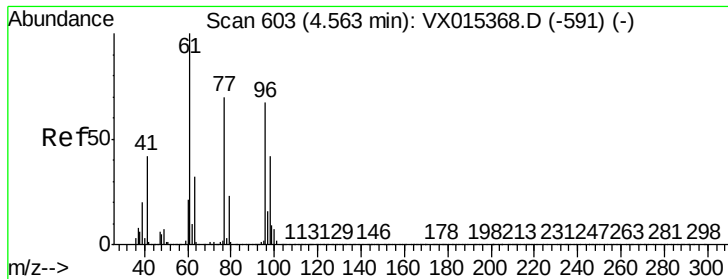
Tgt Ion: 43 Resp: 3294

Ion Ratio Lower Upper

43 100

72 15.8 19.0 28.4#



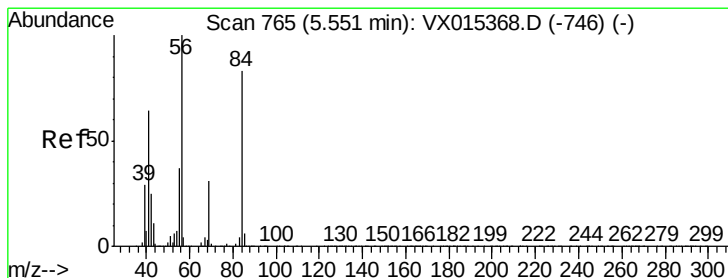
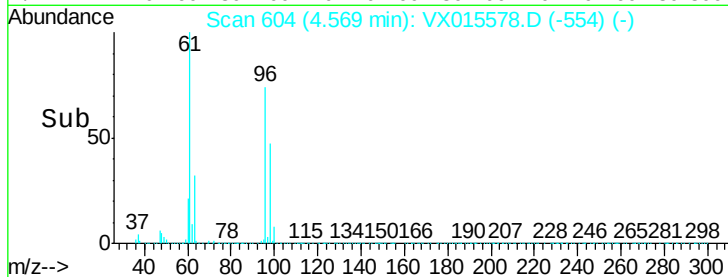
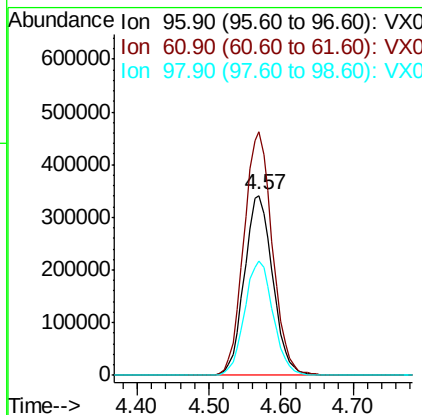
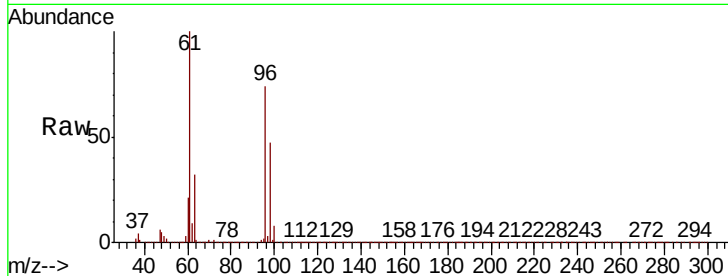


#27

cis-1,2-Dichloroethene
 Concen: 72.996 ug/l
 RT: 4.57 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

Instrument :
 MSVOA_X
 ClientSampled :
 M-19-200407

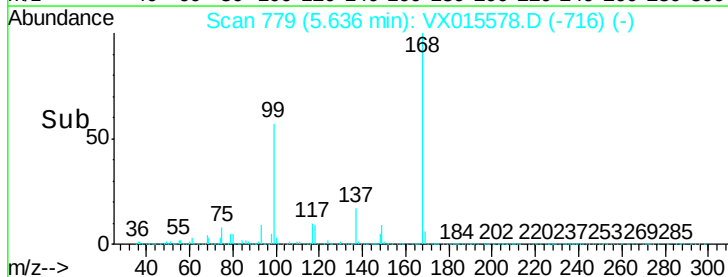
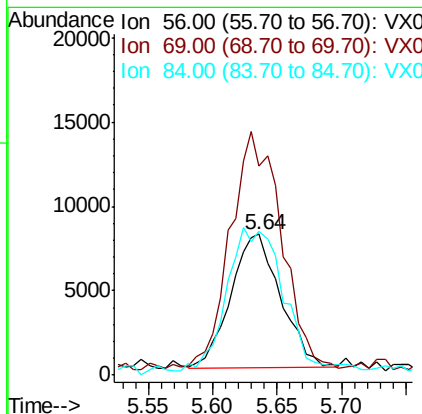
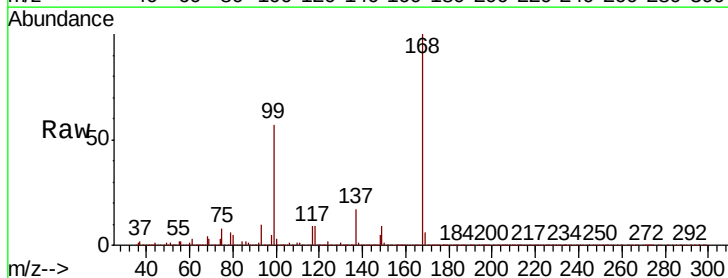
Tot Ion:	96	Resp:	932993
Ion	Ratio	Lower	Upper
96	100		
61	136.5	0.0	308.4
98	63.9	0.0	129.2

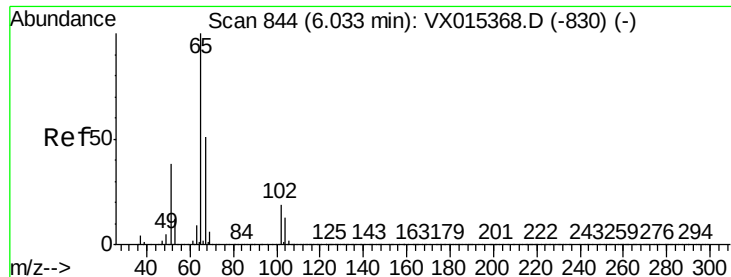


#31

Cyclohexane
 Concen: 1.133 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. 0.09 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

Tgt Ion:	56	Resp:	21323
Ion	Ratio	Lower	Upper
56	100		
69	153.1	24.6	36.8#
84	100.6	66.1	99.1#





#33

1,2-Dichloroethane-d4

Concen: 46.936 ug/l

RT: 6.03 min Scan# 844

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

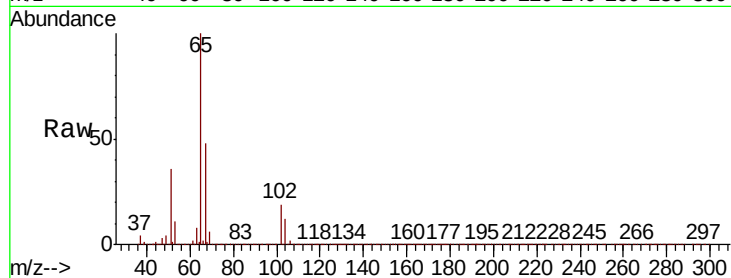
M-19-200407

Tot Ion: 65 Resp: 697976

Ion Ratio Lower Upper

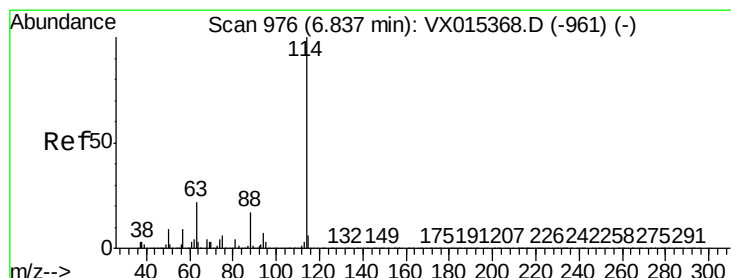
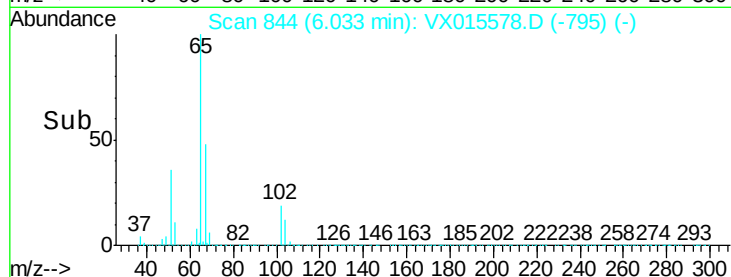
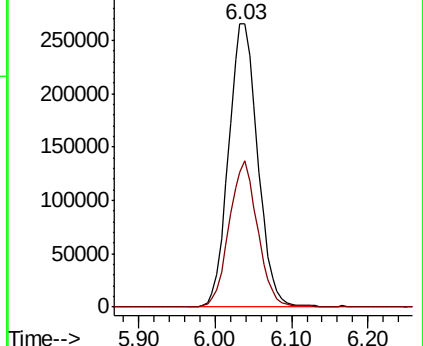
65 100

67 50.3 0.0 102.6



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: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

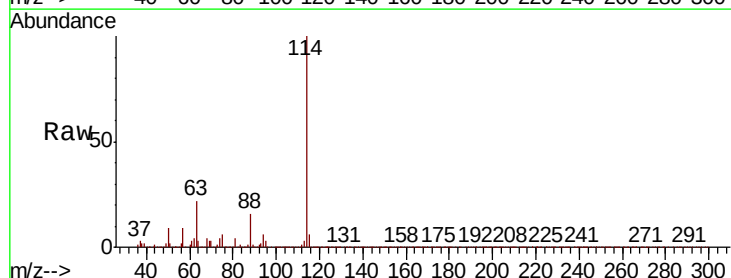
Tgt Ion: 114 Resp: 1684317

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.2

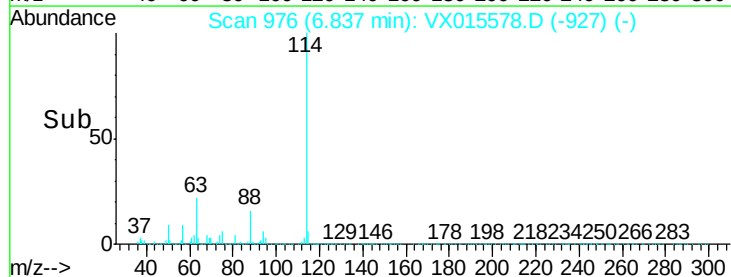
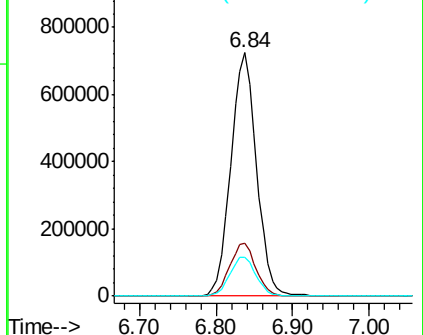
88 15.7 0.0 33.8

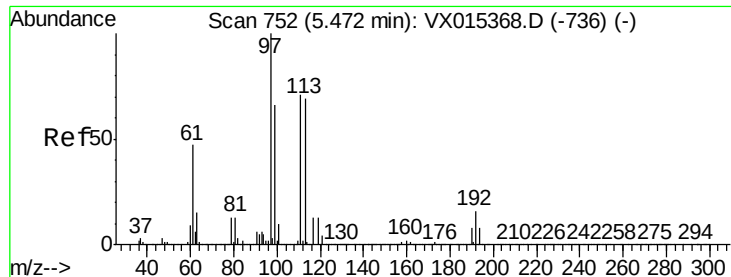


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

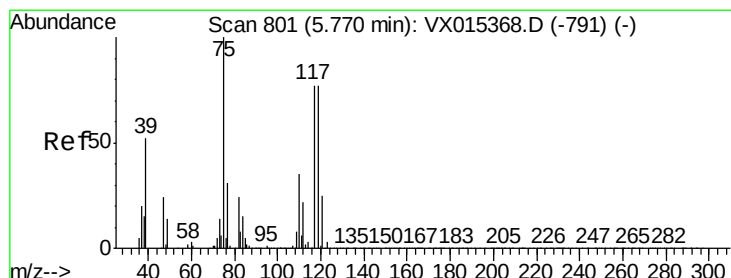
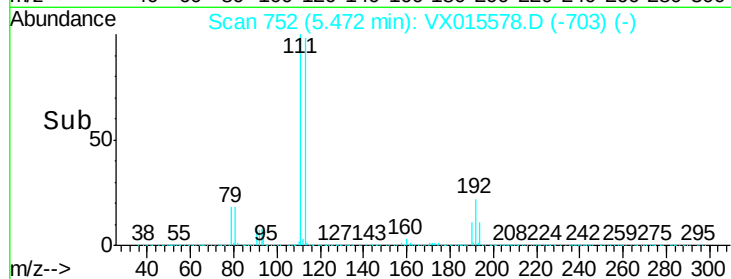
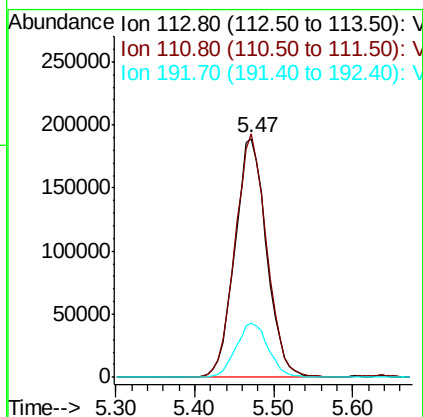
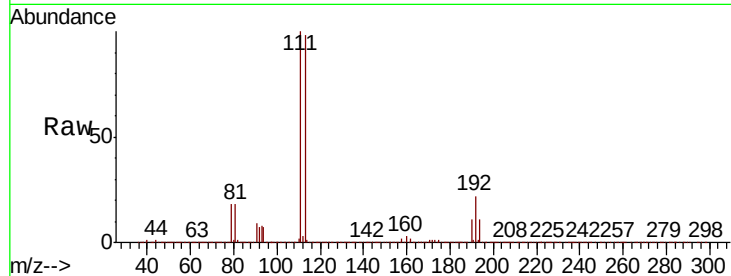




#35
 Dibromofluoromethane
 Concen: 49.103 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

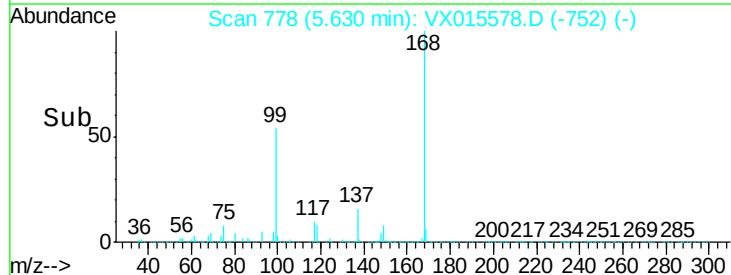
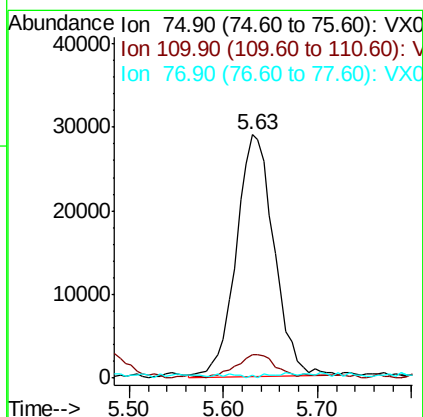
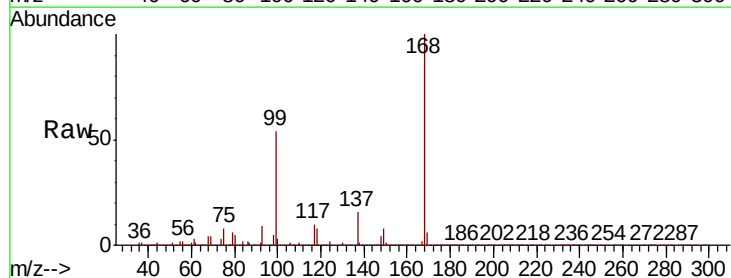
Instrument :
 MSVOA_X
 ClientSampled :
 M-19-200407

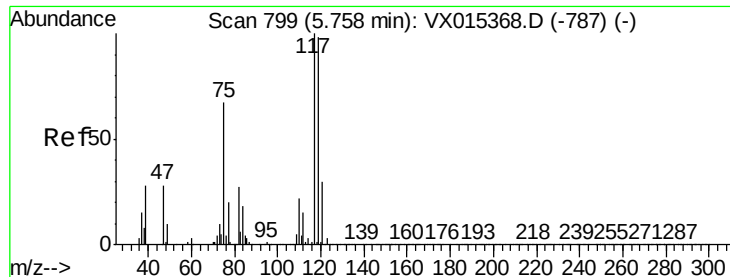
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.5	122.3
192	23.3	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.183 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.1	51.3#
77	0.9	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.971 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

M-19-200407

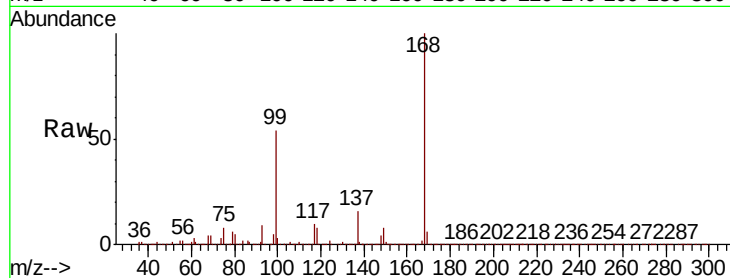
Tot Ion:117 Resp: 100362

Ion Ratio Lower Upper

117 100

119 4.4 78.0 117.0#

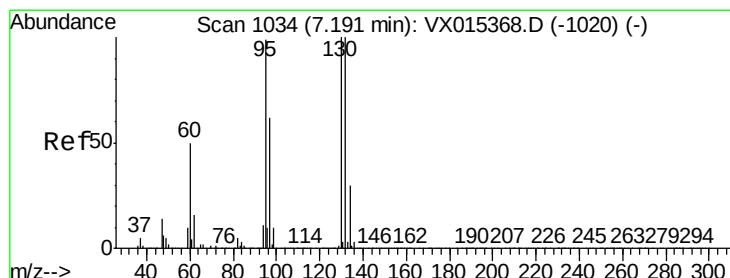
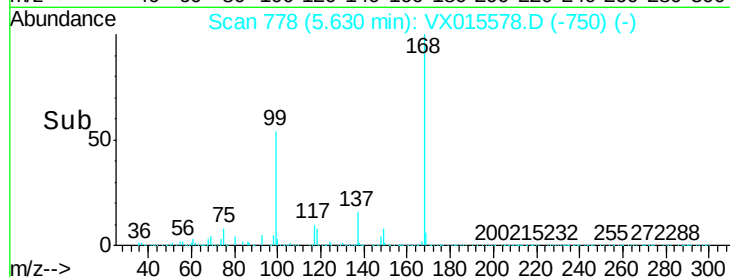
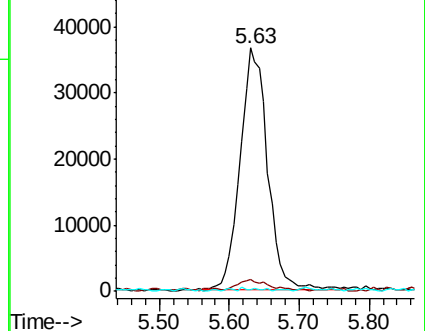
121 0.3 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 17.102 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VX015578.D

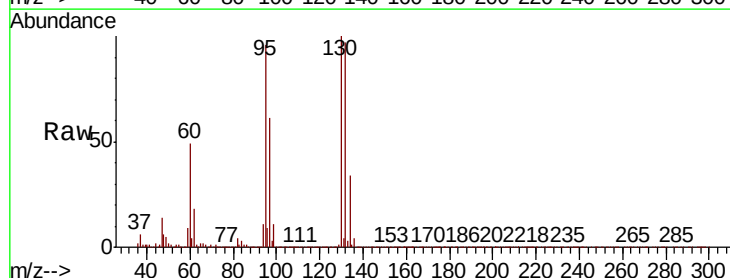
Acq: 08 Apr 2020 18:40

Tgt Ion:130 Resp: 212027

Ion Ratio Lower Upper

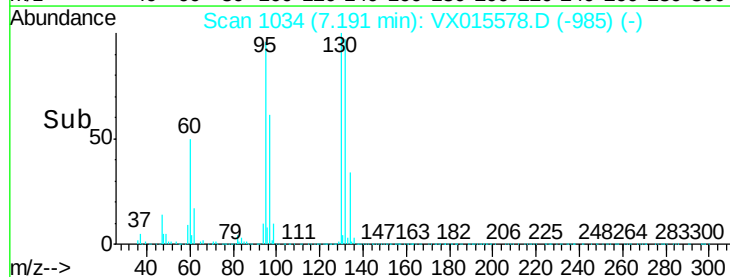
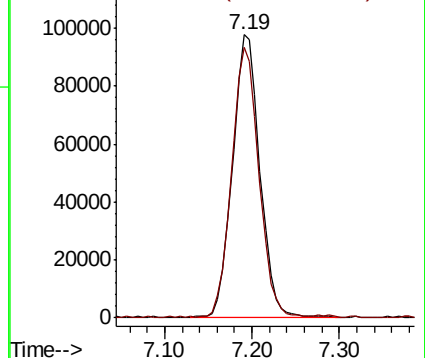
130 100

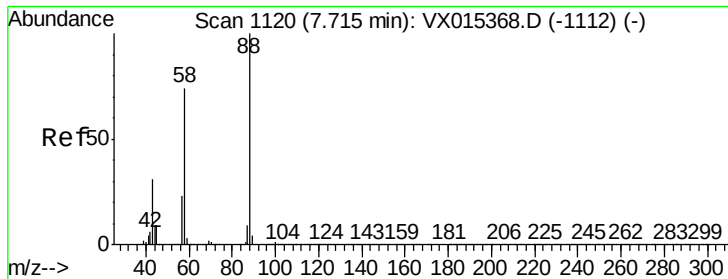
95 95.4 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.799 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampled :

M-19-200407

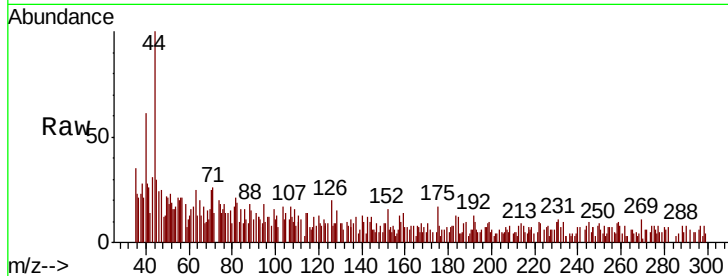
Tot Ion: 88 Resp: 254

Ion Ratio Lower Upper

88 100

43 635.0 30.1 45.1#

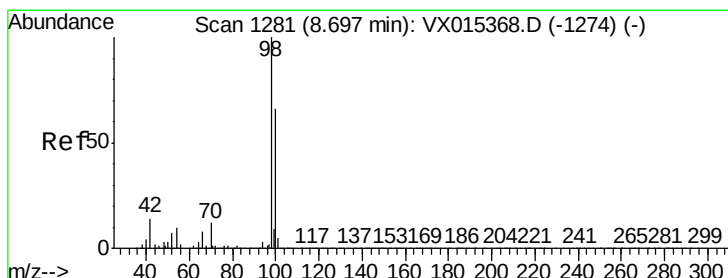
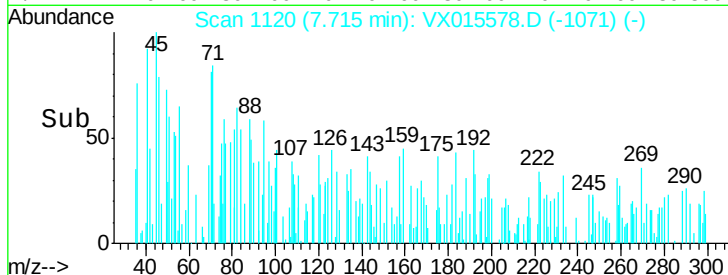
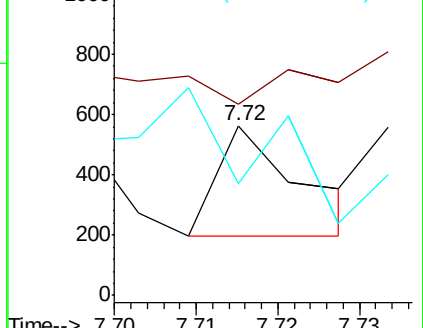
58 465.4 60.6 90.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.666 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015578.D

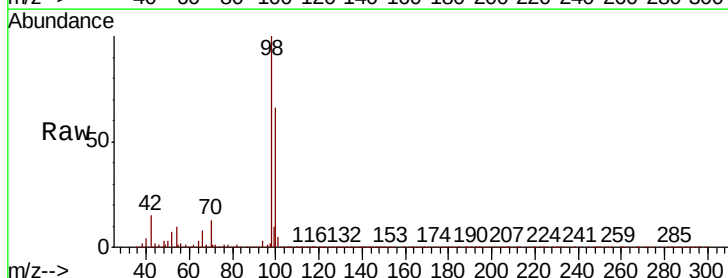
Acq: 08 Apr 2020 18:40

Tgt Ion: 98 Resp: 2008383

Ion Ratio Lower Upper

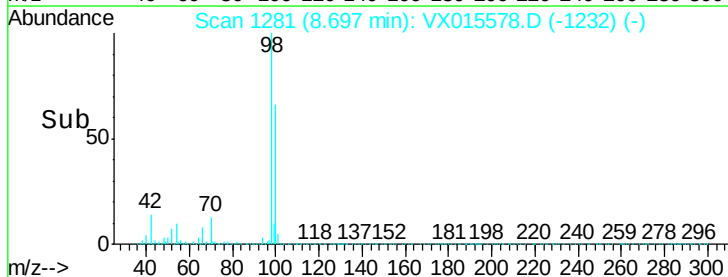
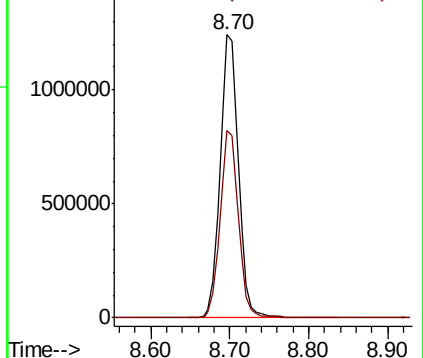
98 100

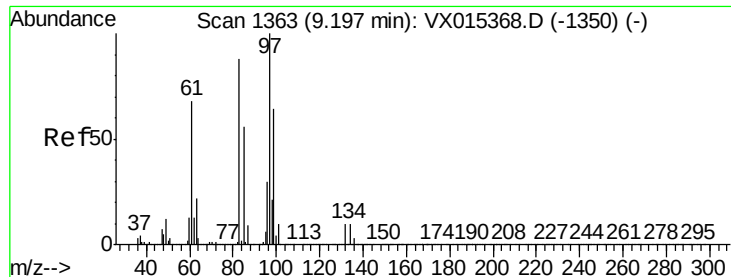
100 65.9 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

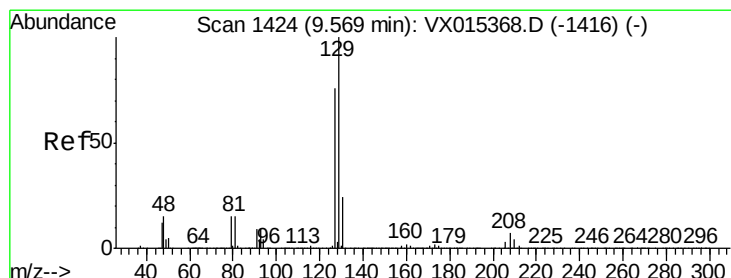
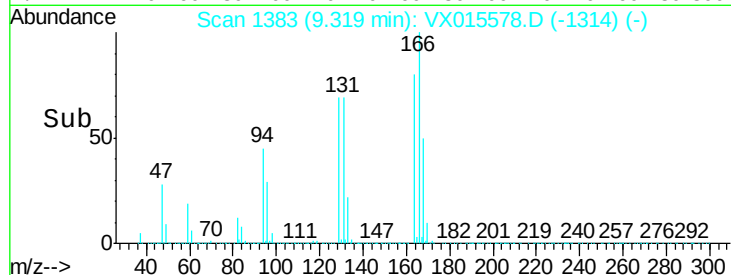
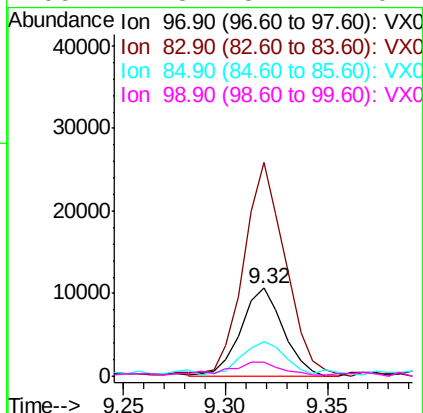
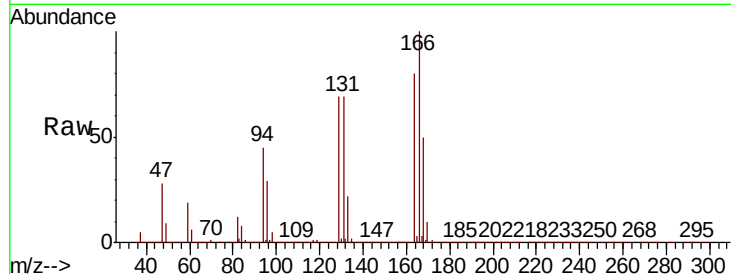




#55
 1,1,2-Trichloroethane
 Concen: 1.352 ug/l
 RT: 9.32 min Scan# 1383
 Delta R.T. 0.12 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

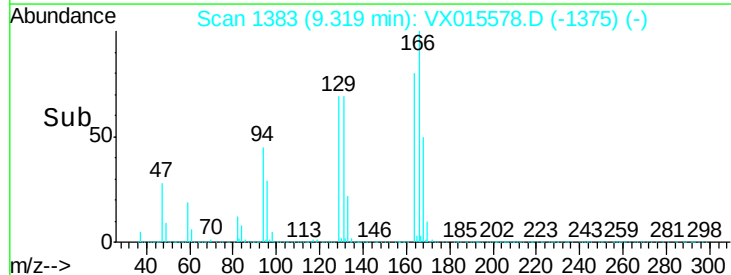
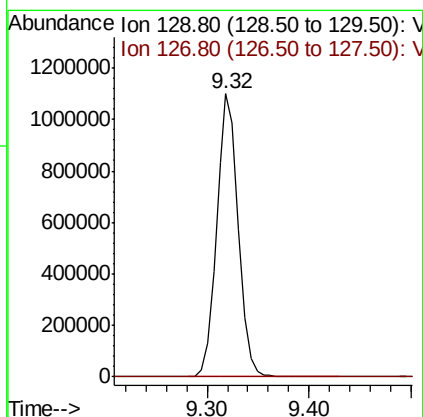
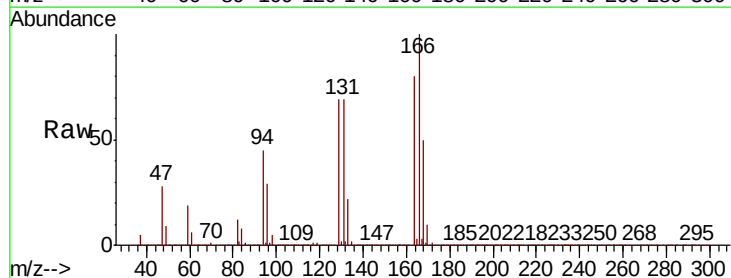
Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-200407

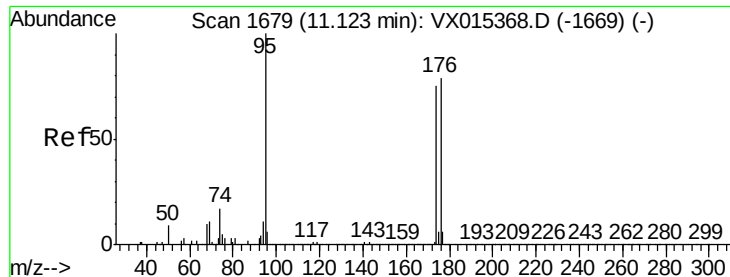
Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	239.0	70.2	105.4#	
85	34.2	44.7	67.1#	
99	14.3	51.1	76.7#	



#60
 Dibromochloromethane
 Concen: 116.989 ug/l
 RT: 9.32 min Scan# 1383
 Delta R.T. -0.25 min
 Lab File: VX015578.D
 Acq: 08 Apr 2020 18:40

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.1	38.2	114.6#	





#62

4-Bromofluorobenzene

Concen: 54.193 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

M-19-200407

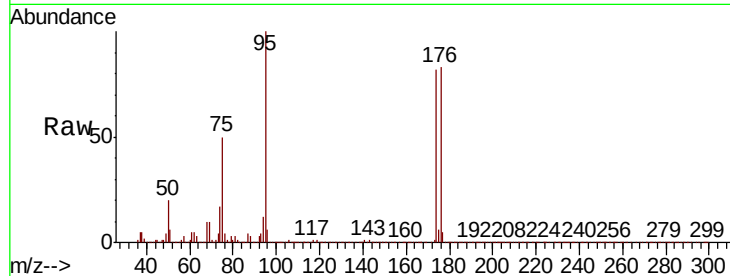
Tot Ion: 95 Resp: 873032

Ion Ratio Lower Upper

95 100

174 85.5 0.0 158.6

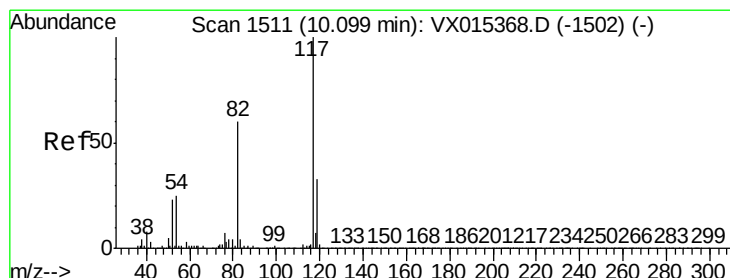
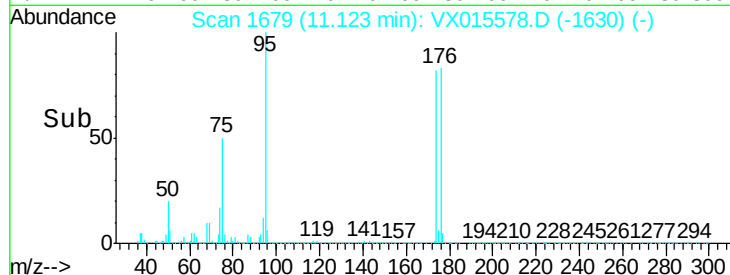
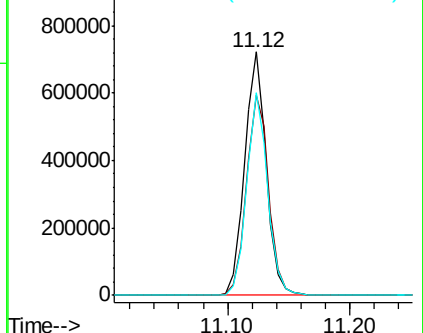
176 82.0 0.0 159.0



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: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

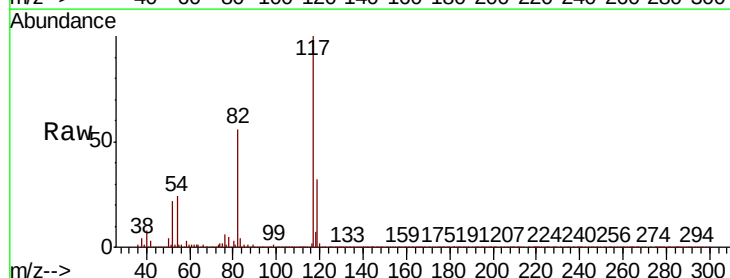
Tgt Ion: 117 Resp: 1611786

Ion Ratio Lower Upper

117 100

82 56.3 47.8 71.8

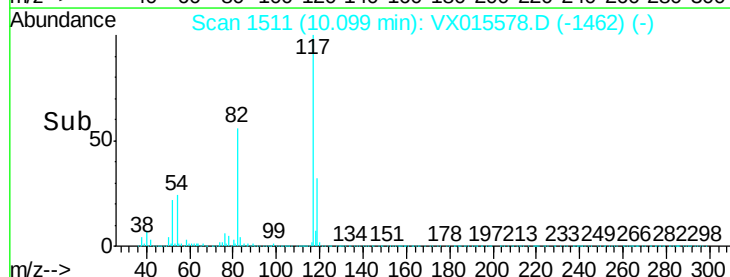
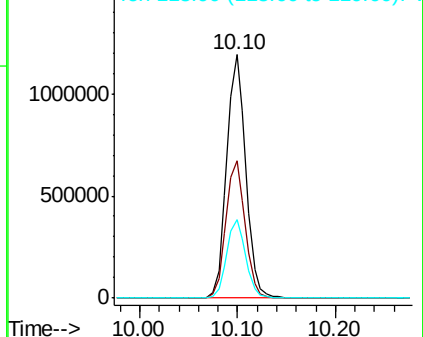
119 32.3 26.8 40.2

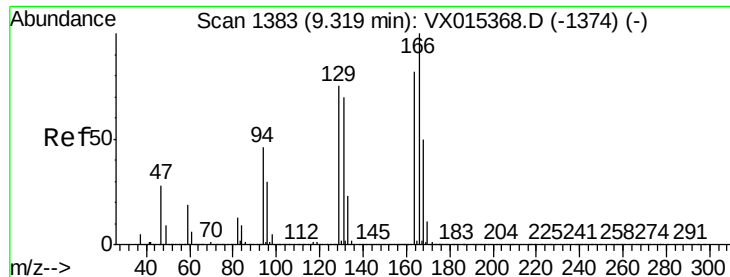


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 148.752 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

M-19-200407

Tot Ion:164 Resp: 1809377

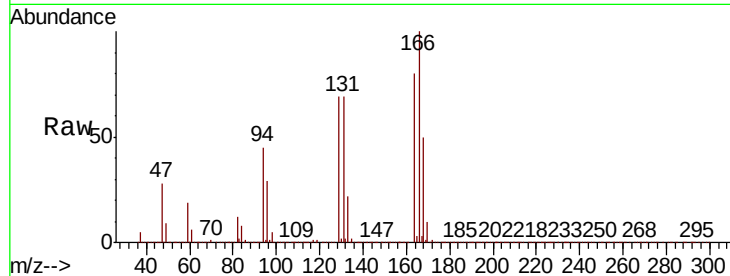
Ion Ratio Lower Upper

164 100

166 125.5 97.8 146.6

129 86.2 73.0 109.4

131 86.7 68.6 103.0



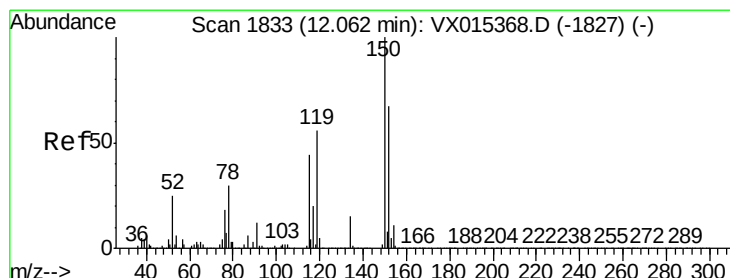
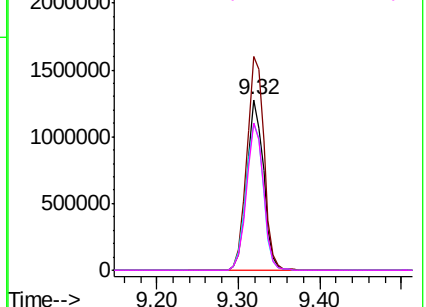
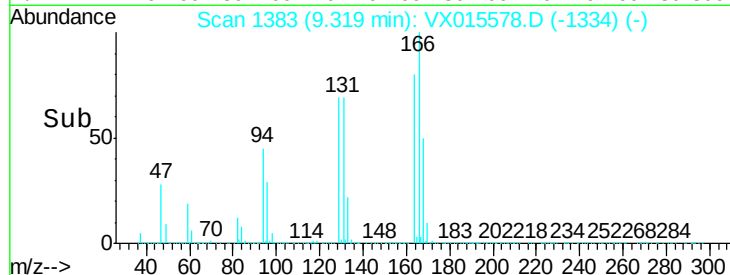
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

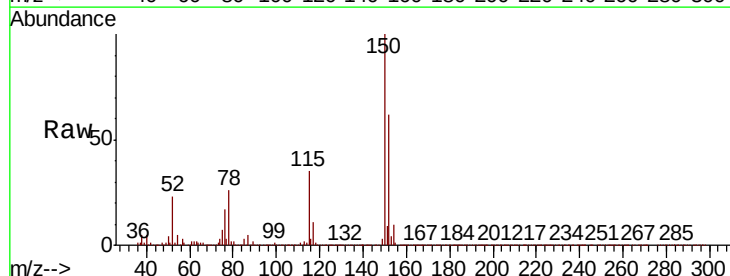
Tgt Ion:152 Resp: 908578

Ion Ratio Lower Upper

152 100

115 56.0 39.0 116.9

150 155.4 0.0 340.8

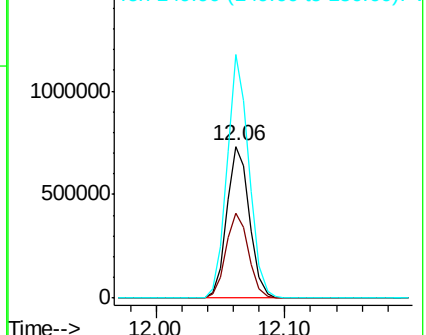
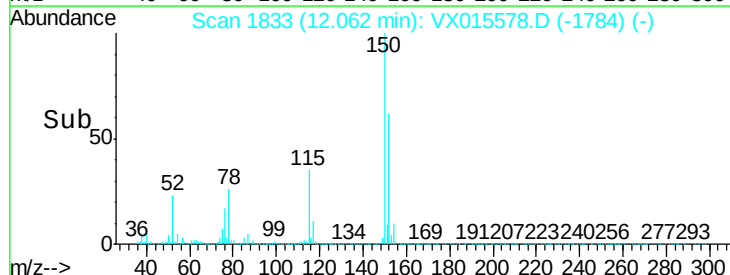


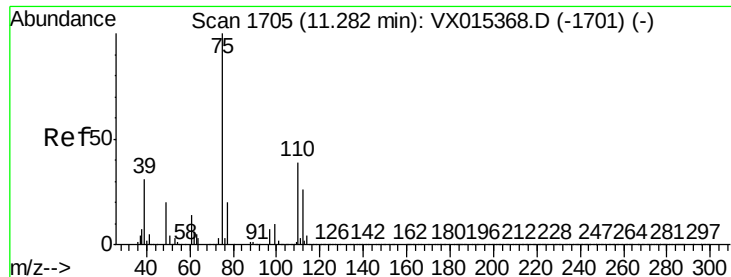
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.094 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

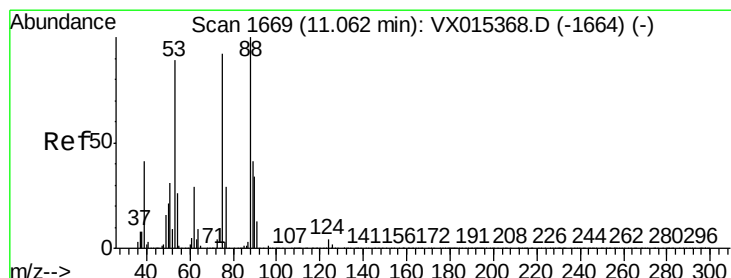
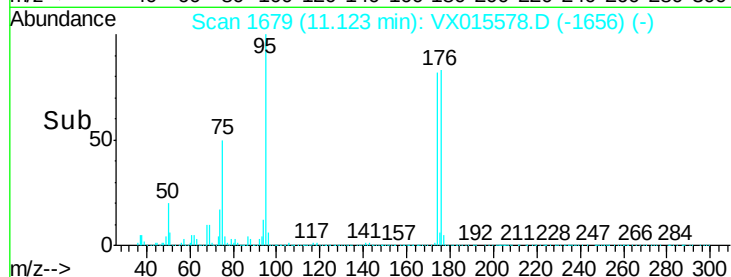
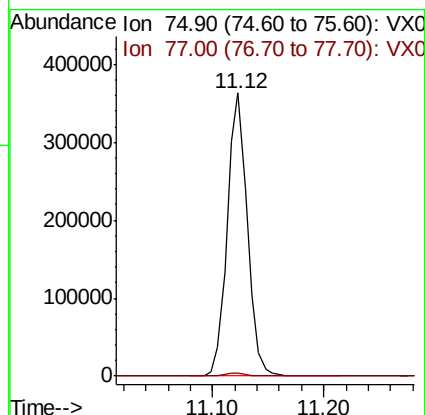
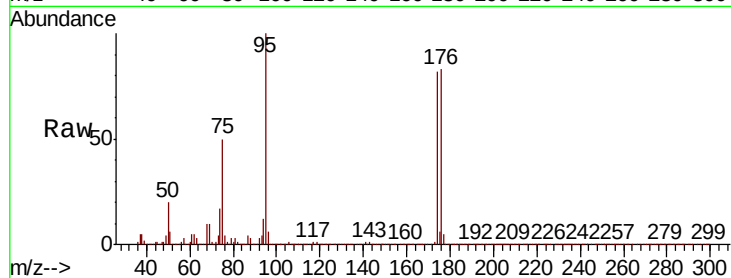
M-19-200407

Tot Ion: 75 Resp: 450178

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.813 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015578.D

Acq: 08 Apr 2020 18:40

Tgt Ion: 75 Resp: 450178

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.1 36.1 54.1#

