

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032419\
 Data File : VX008387.D
 Acq On : 24 Mar 2019 13:22
 Operator : JC/SP
 Sample : K1945-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

Quant Time: Mar 25 05:45:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 15:27:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	224112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388487	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	332782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134773	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	167135	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
35) Dibromofluoromethane	5.50	113	121474	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	8.71	98	484882	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	11.13	95	163266	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

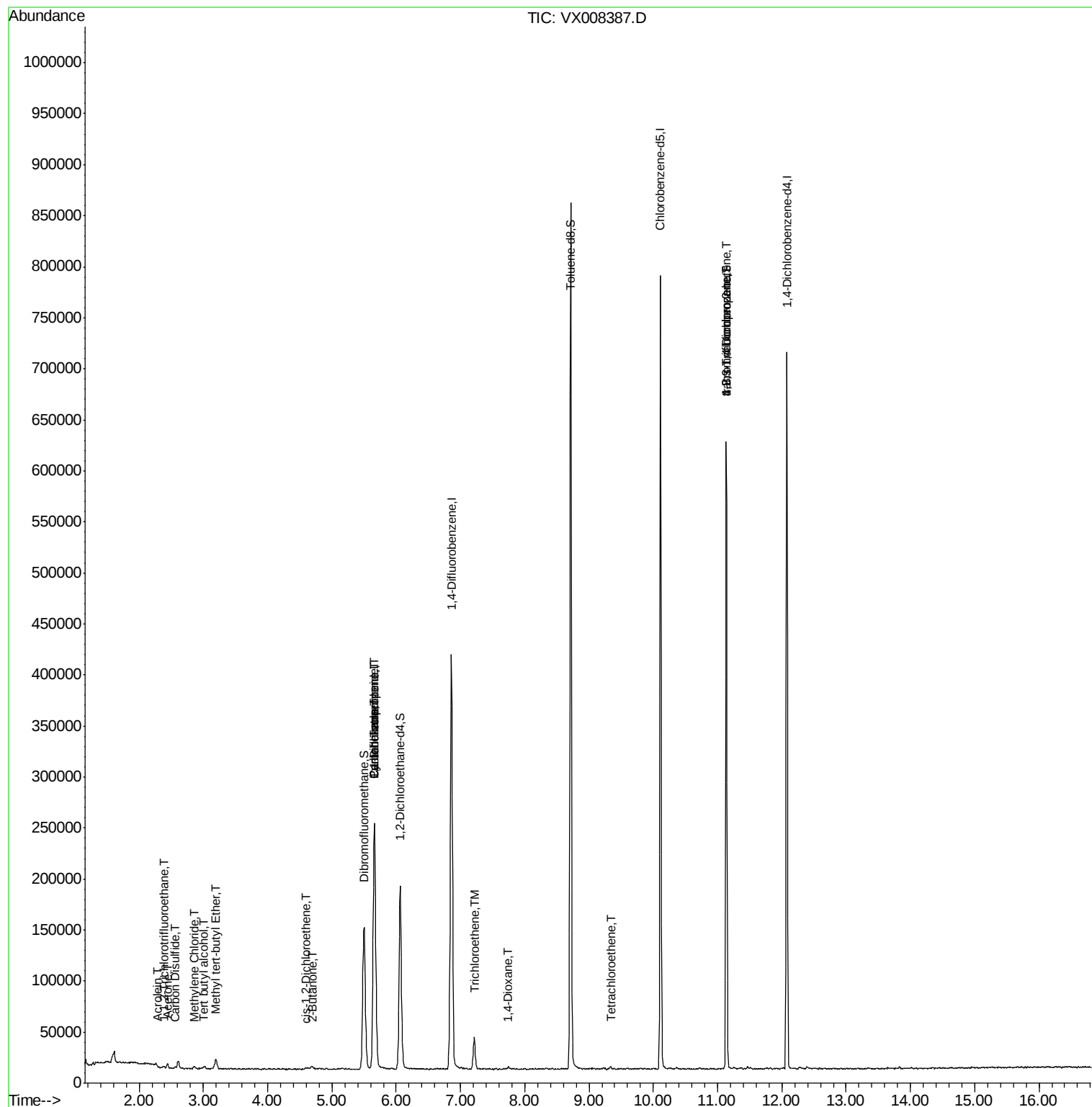
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.39	101	697	0.282	ug/l #	81
11) Tert butyl alcohol	3.01	59	1826	2.398	ug/l	100
13) Acrolein	2.29	56	269	0.413	ug/l #	37
16) Acetone	2.45	43	5526	3.234	ug/l	96
17) Carbon Disulfide	2.57	76	1651	0.202	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	10312	1.122	ug/l	93
20) Methylene Chloride	2.86	84	1200	0.390	ug/l	97
25) 2-Butanone	4.68	43	655	0.233	ug/l #	88
27) cis-1,2-Dichloroethene	4.59	96	719	0.227	ug/l	95
31) Cyclohexane	5.67	56	5584	1.039	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19612	4.940	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23007	6.761	ug/l #	16
44) Trichloroethene	7.21	130	11342	4.040	ug/l	90
49) 1,4-Dioxane	7.74	88	1598	18.762	ug/l	88
64) Tetrachloroethene	9.34	164	478	0.220	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	84053	23.827	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	84053	67.900	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

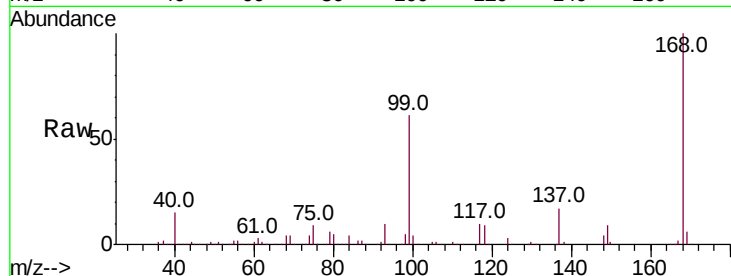
M4-T0-OZ(PRE)

Tot Ion:168 Resp: 224112

Ion Ratio Lower Upper

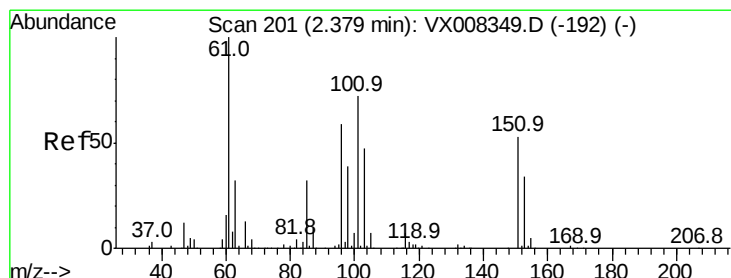
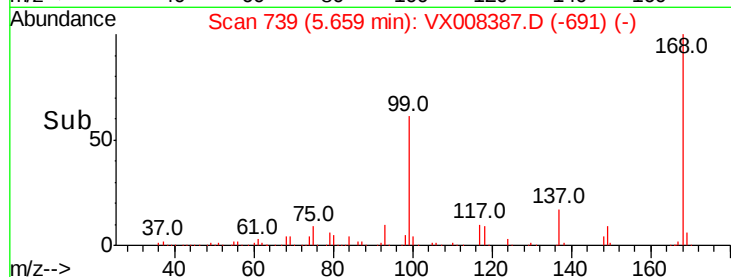
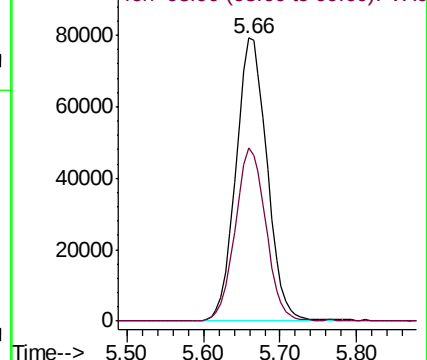
168 100

99 61.4 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.282 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

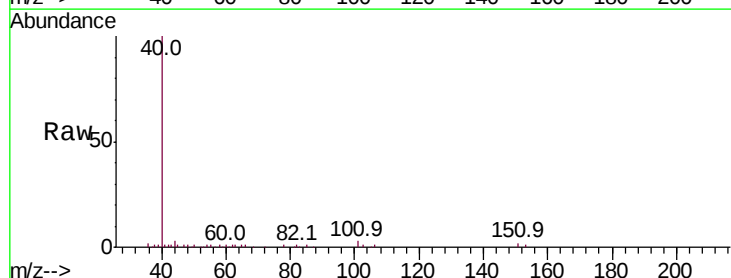
Tgt Ion:101 Resp: 697

Ion Ratio Lower Upper

101 100

85 48.6 33.8 50.6

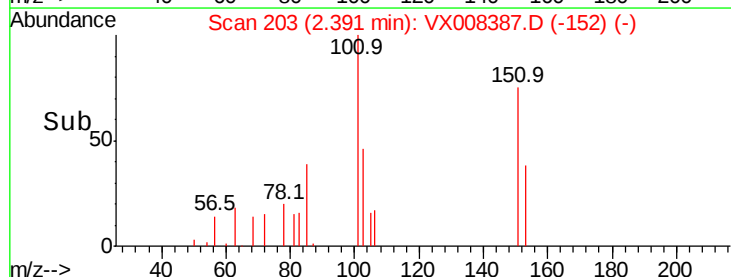
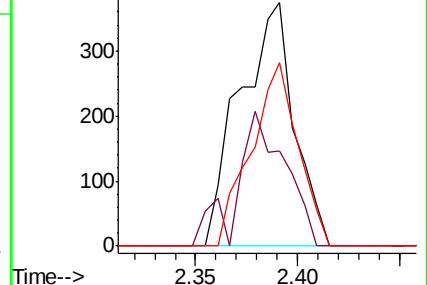
151 64.7 69.1 103.7#

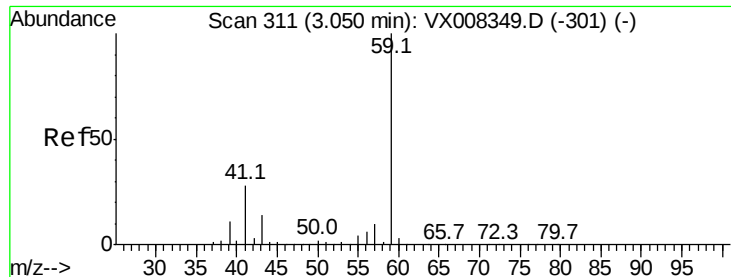


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



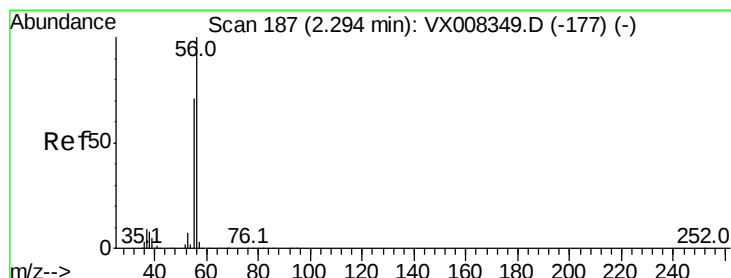
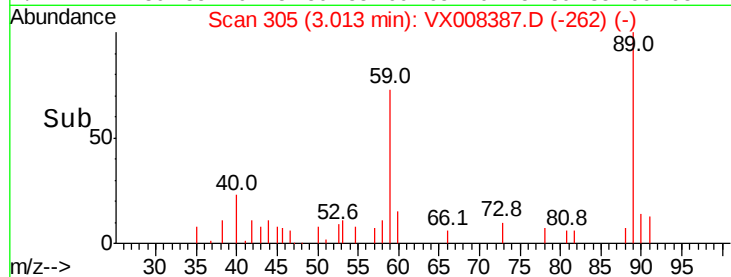
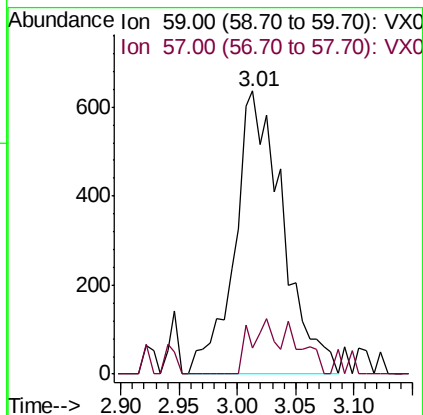
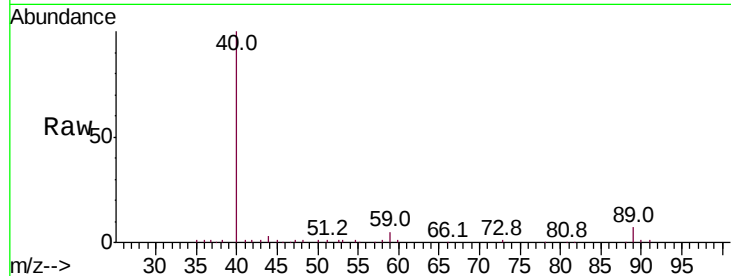


#11

Tert butyl alcohol
 Concen: 2.398 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX008387.D
 Acq: 24 Mar 2019 13:22

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

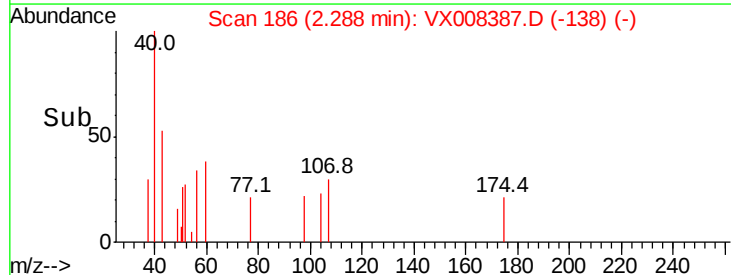
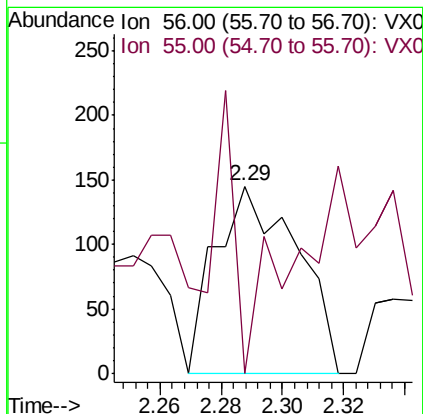
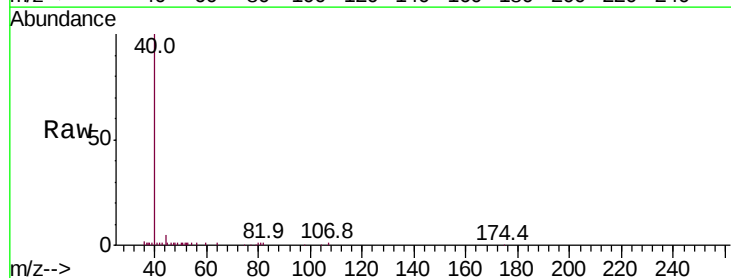
Tot Ion: 59 Resp: 1826
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.2

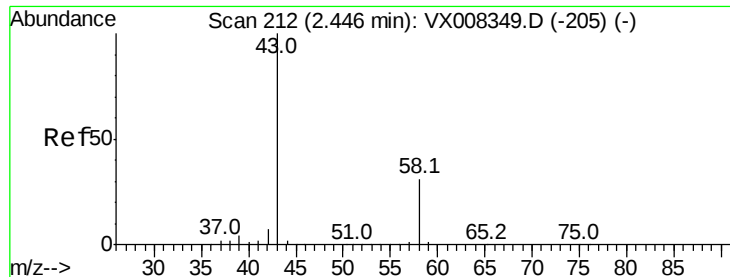


#13

Acrolein
 Concen: 0.413 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX008387.D
 Acq: 24 Mar 2019 13:22

Tgt Ion: 56 Resp: 269
 Ion Ratio Lower Upper
 56 100
 55 19.3 57.8 86.6#





#16

Acetone

Concen: 3.234 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

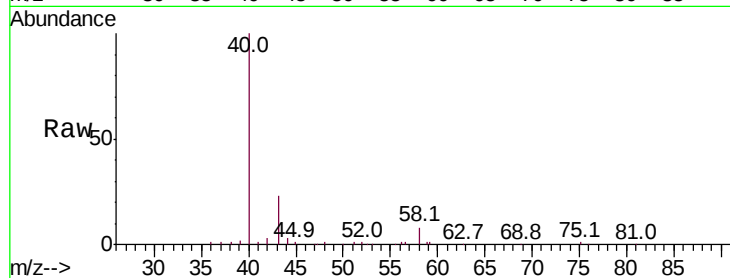
M4-T0-OZ(PRE)

Tot Ion: 43 Resp: 5526

Ion Ratio Lower Upper

43 100

58 34.3 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

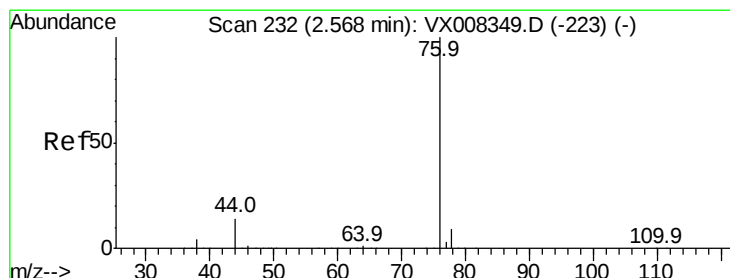
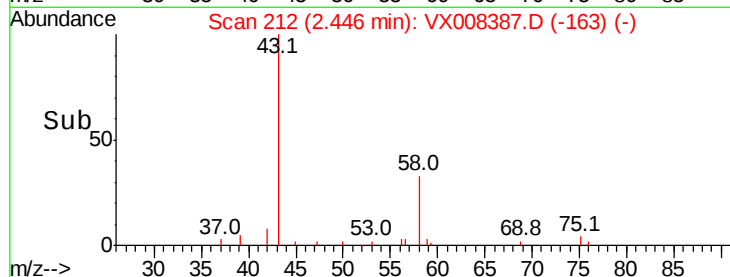
2000

1000

0

Time-->

2.40 2.50 2.60



#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008387.D

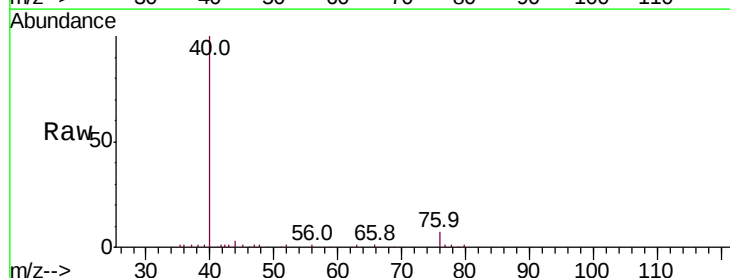
Acq: 24 Mar 2019 13:22

Tgt Ion: 76 Resp: 1651

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

600

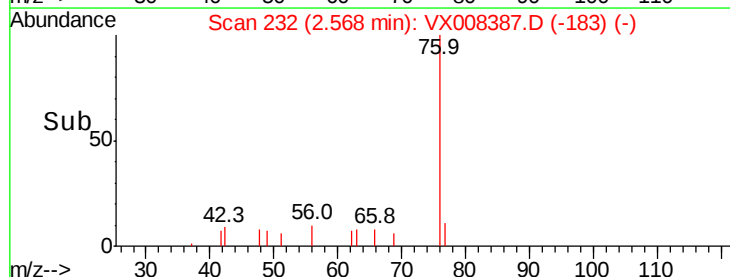
400

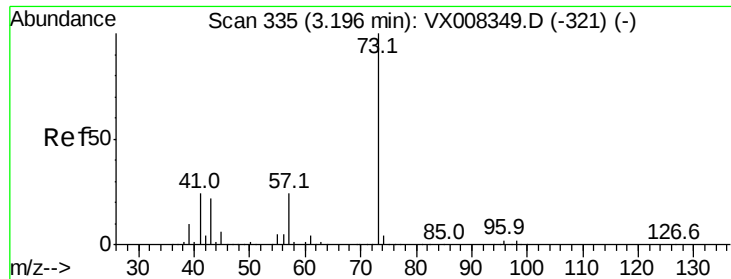
200

0

Time-->

2.50 2.55 2.60 2.65

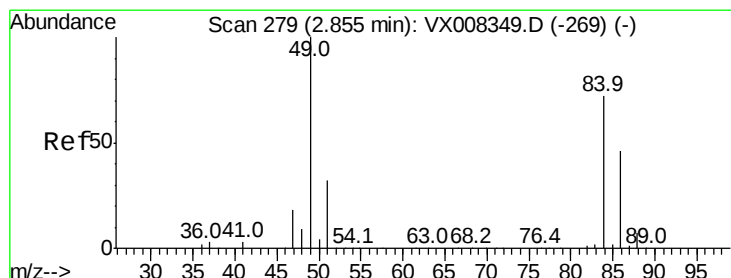
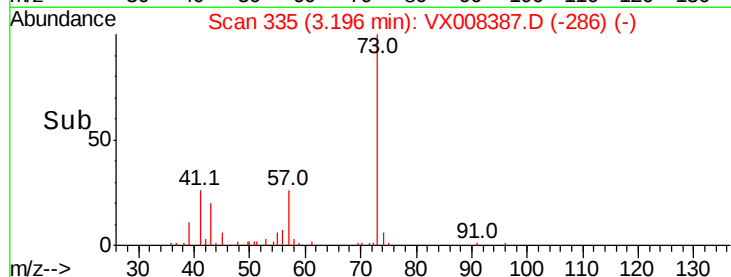
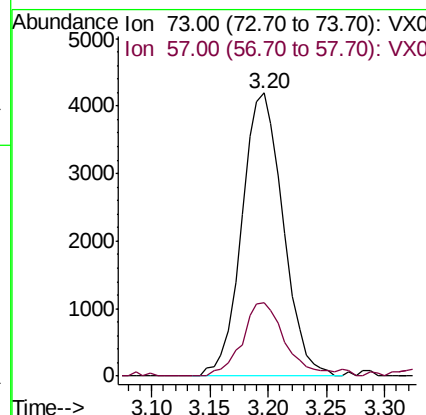
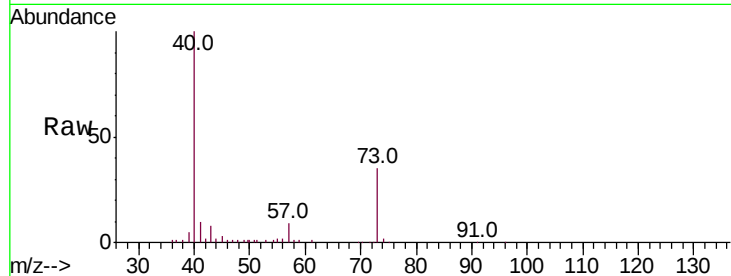




#19
Methyl tert-butyl Ether
Concen: 1.122 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

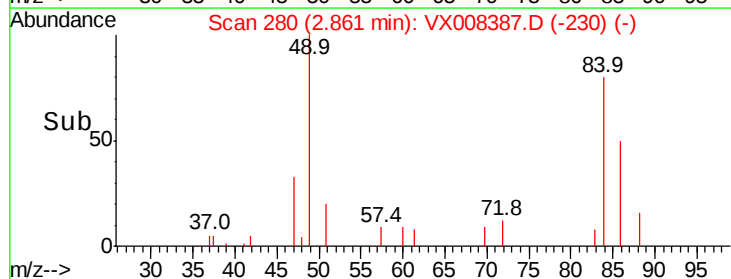
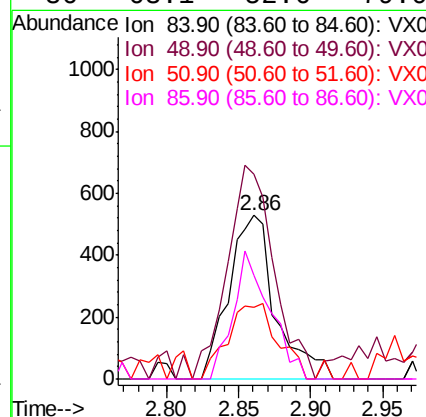
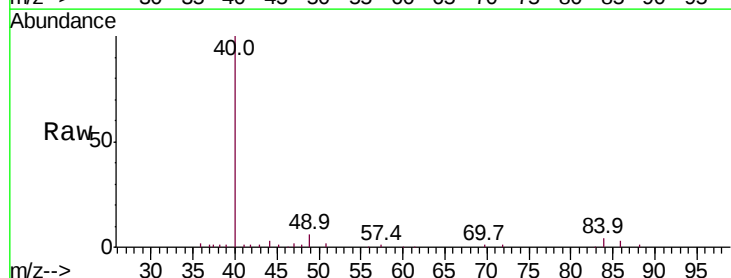
Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

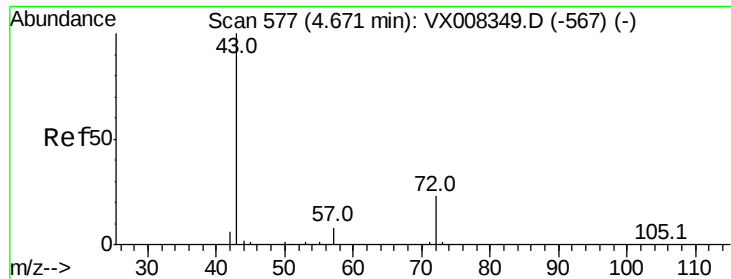
Tot Ion: 73 Resp: 10312
Ion Ratio Lower Upper
73 100
57 26.2 18.2 27.4



#20
Methylene Chloride
Concen: 0.390 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

Tgt Ion: 84 Resp: 1200
Ion Ratio Lower Upper
84 100
49 125.0 99.3 148.9
51 43.8 31.3 46.9
86 63.1 52.6 79.0





#25

2-Butanone

Concen: 0.233 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

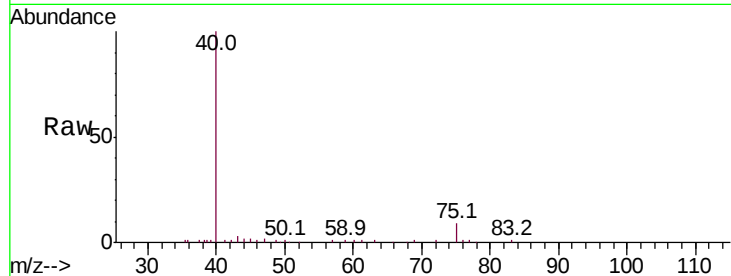
M4-T0-OZ(PRE)

Tot Ion: 43 Resp: 655

Ion Ratio Lower Upper

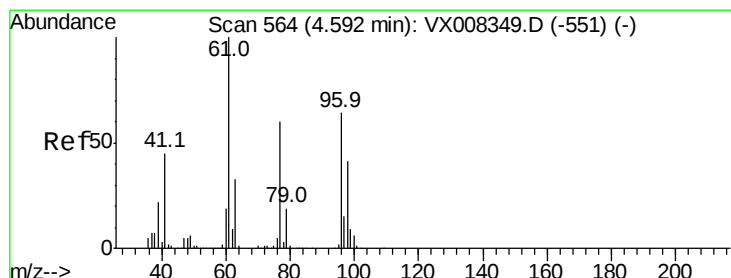
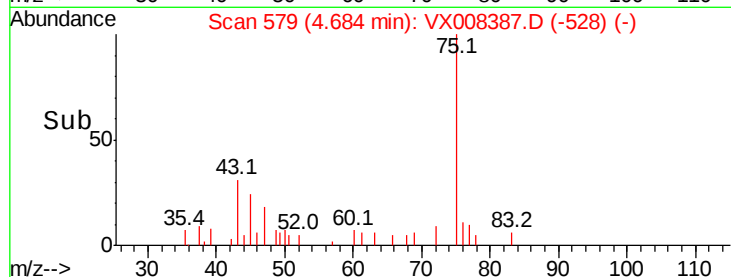
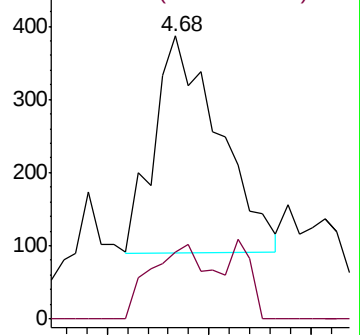
43 100

72 30.8 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.227 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

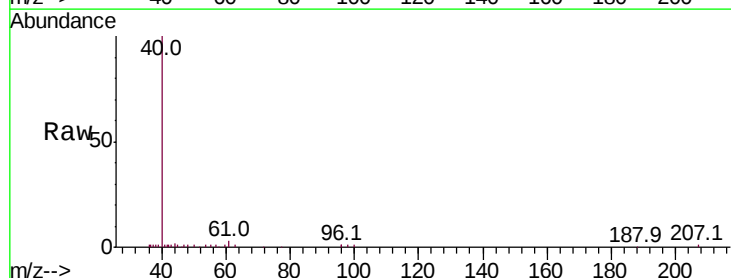
Tgt Ion: 96 Resp: 719

Ion Ratio Lower Upper

96 100

61 143.4 0.0 288.0

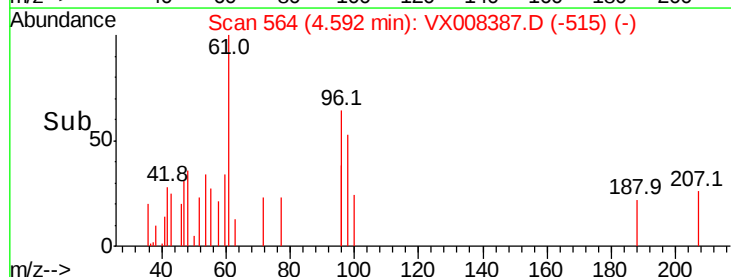
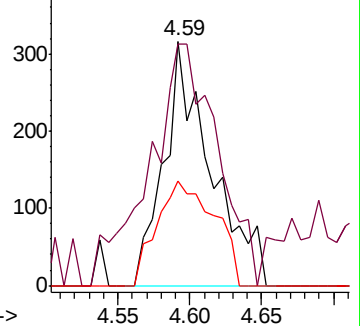
98 52.3 0.0 129.0

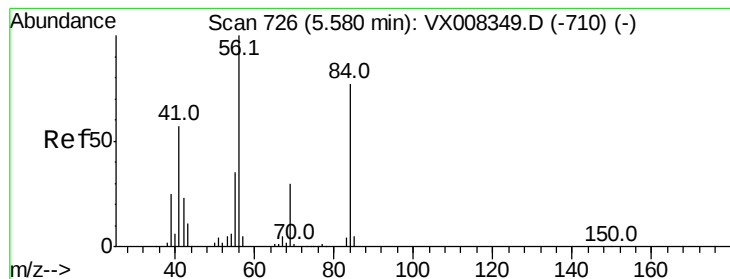


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.039 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

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M4-T0-OZ(PRE)

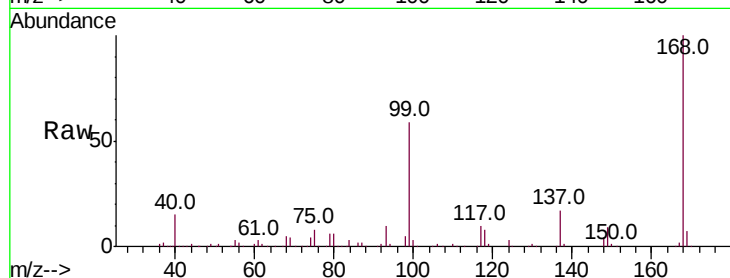
Tot Ion: 56 Resp: 5584

Ion Ratio Lower Upper

56 100

69 166.0 24.0 36.0#

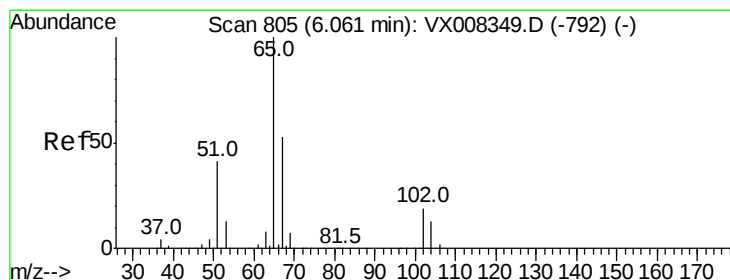
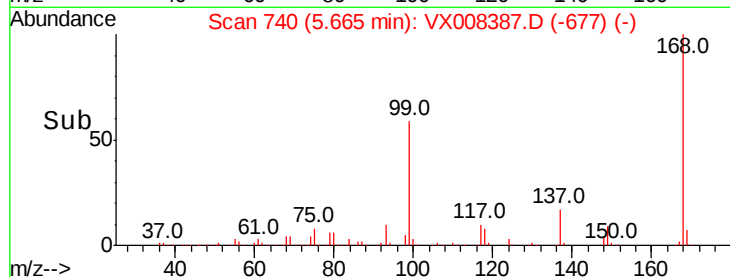
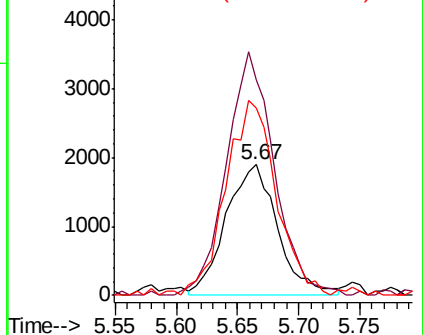
84 144.0 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.896 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008387.D

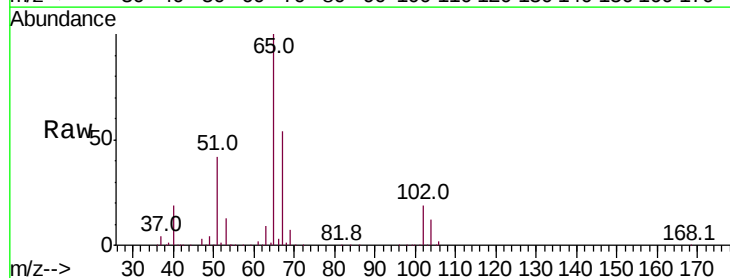
Acq: 24 Mar 2019 13:22

Tgt Ion: 65 Resp: 167135

Ion Ratio Lower Upper

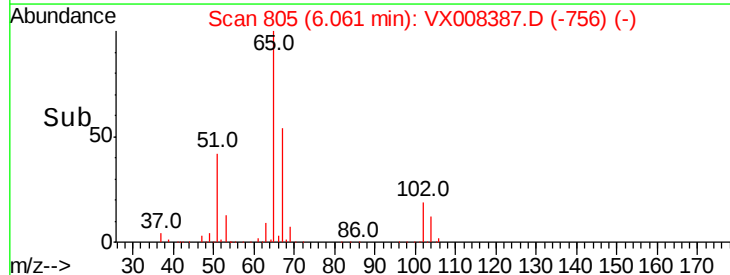
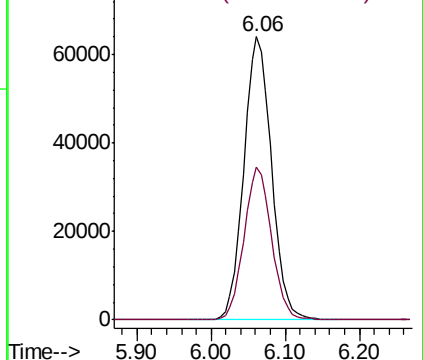
65 100

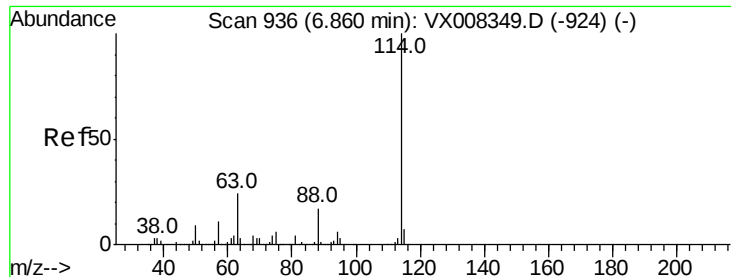
67 53.7 0.0 110.0



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# 936

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

M4-T0-OZ(PRE)

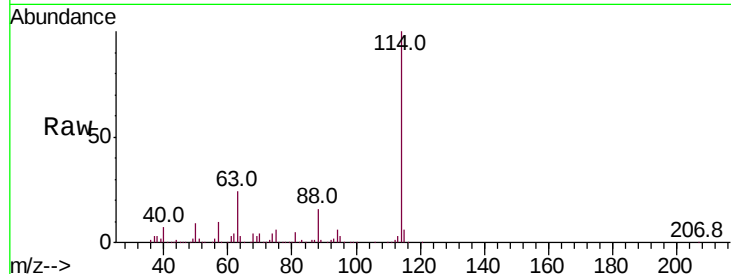
Tot Ion:114 Resp: 388487

Ion Ratio Lower Upper

114 100

63 23.9 0.0 39.8

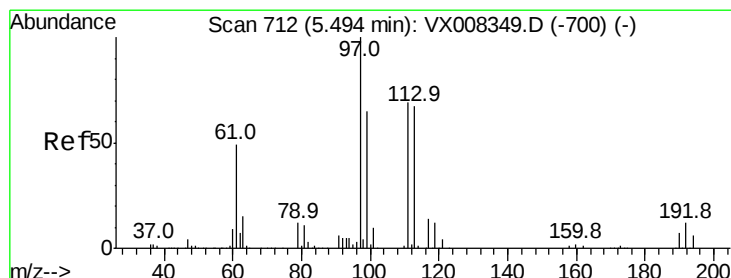
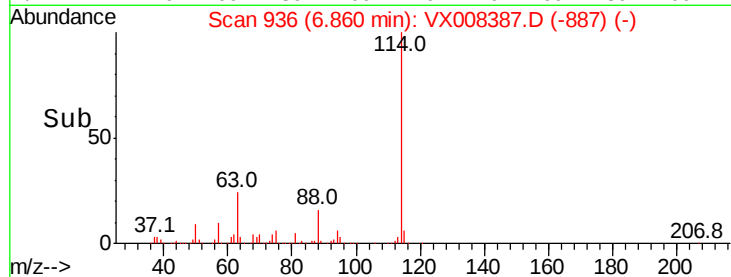
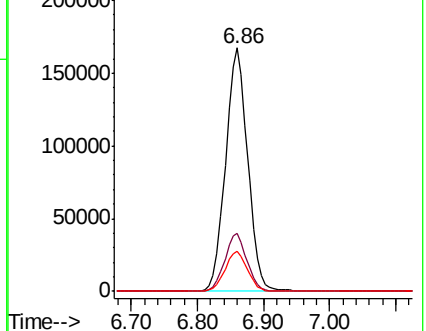
88 16.5 0.0 31.4



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: 48.262 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

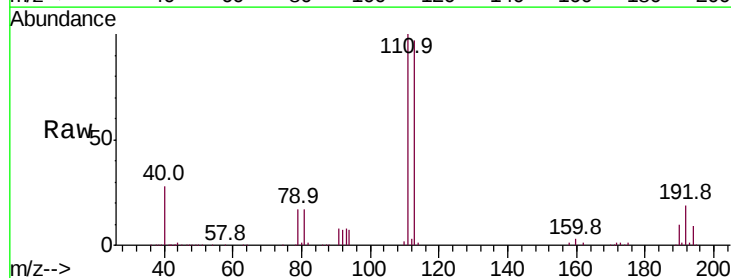
Tgt Ion:113 Resp: 121474

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

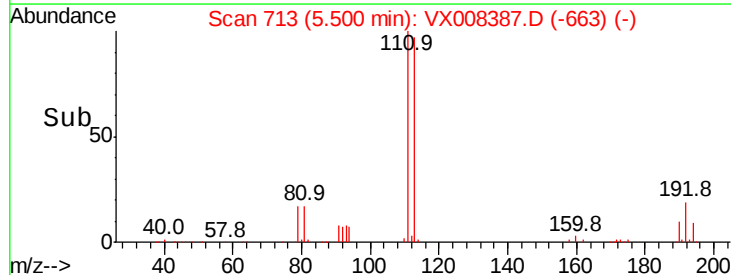
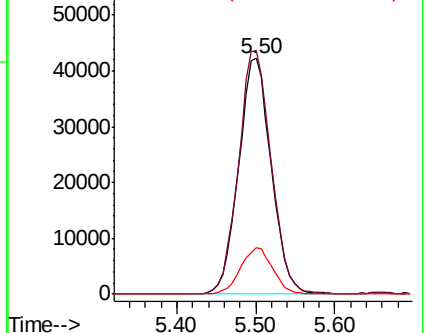
192 19.3 19.4 29.0#

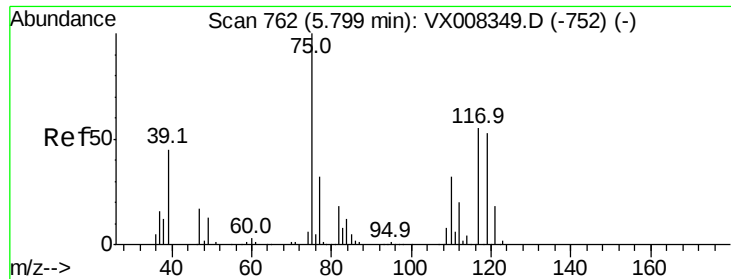


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

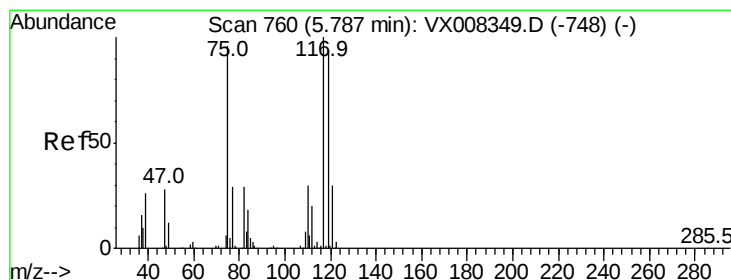
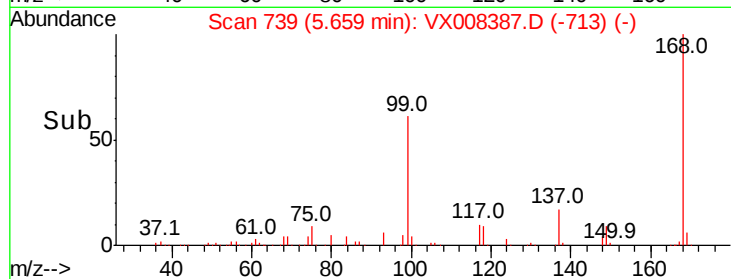
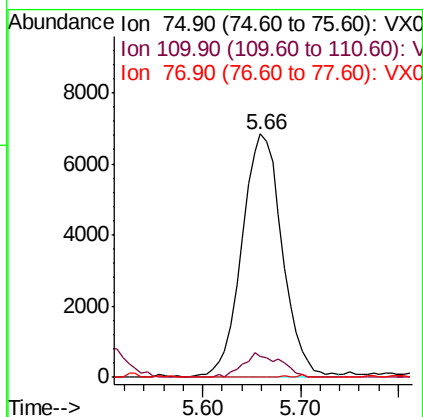
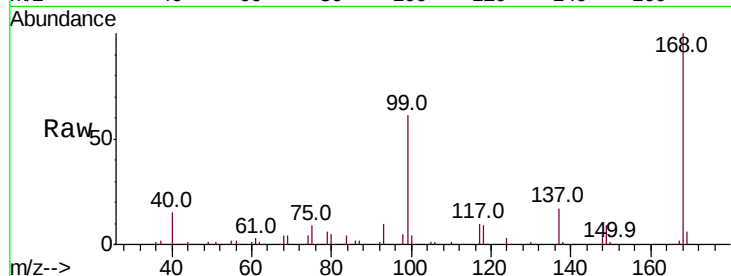




#36
 1,1-Dichloropropene
 Concen: 4.940 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008387.D
 Acq: 24 Mar 2019 13:22

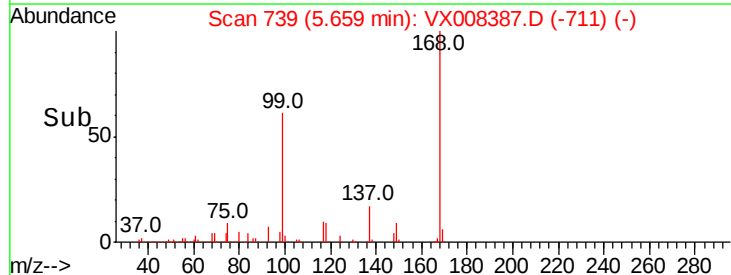
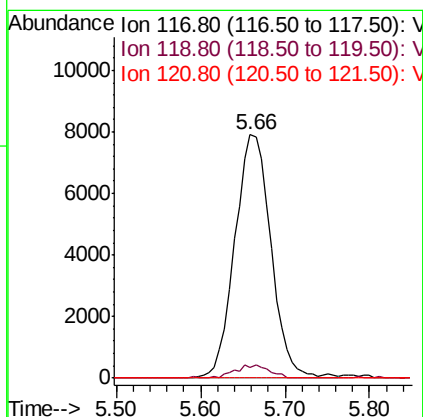
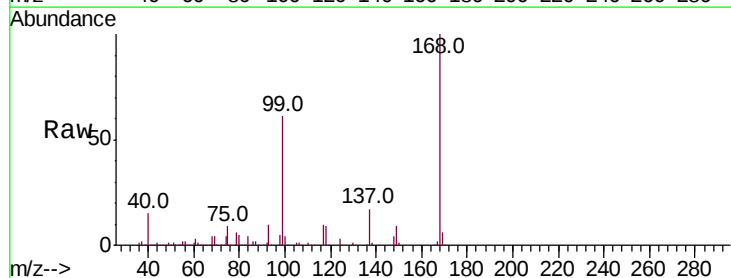
Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T0-OZ(PRE)

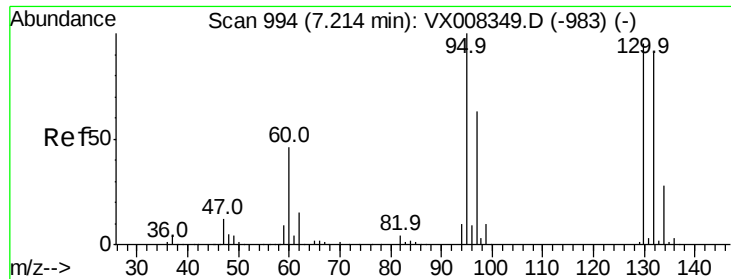
Tot Ion: 75 Resp: 19612
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.4 55.0#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.761 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008387.D
 Acq: 24 Mar 2019 13:22

Tgt Ion: 117 Resp: 23007
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.2 114.2#
 121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 4.040 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

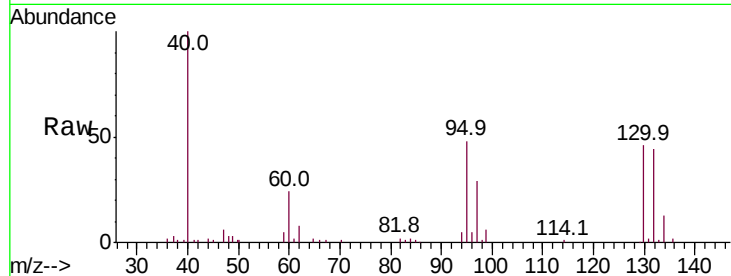
M4-T0-OZ(PRE)

Tot Ion:130 Resp: 11342

Ion Ratio Lower Upper

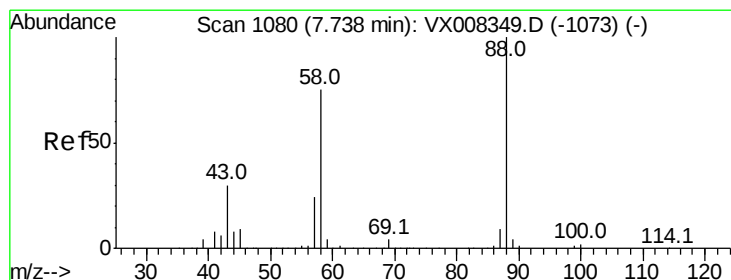
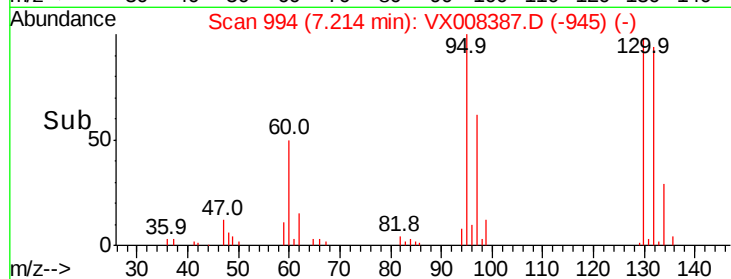
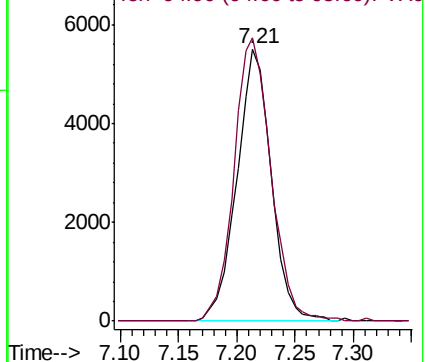
130 100

95 104.0 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 18.762 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

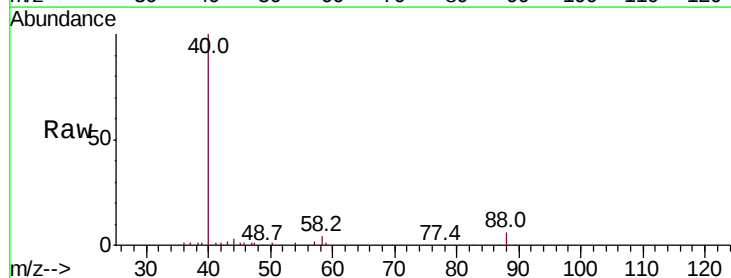
Tgt Ion: 88 Resp: 1598

Ion Ratio Lower Upper

88 100

43 30.4 25.1 37.7

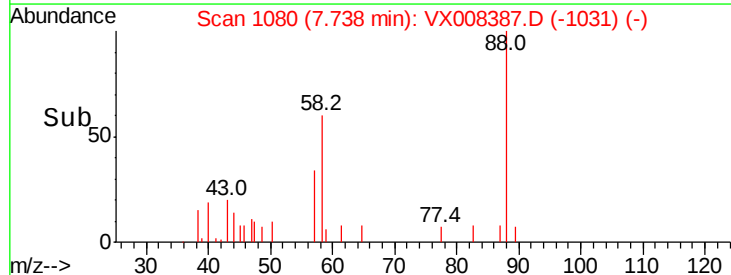
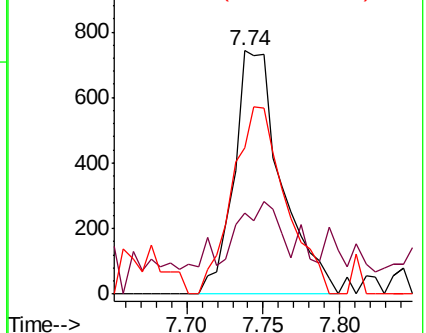
58 86.2 57.8 86.6

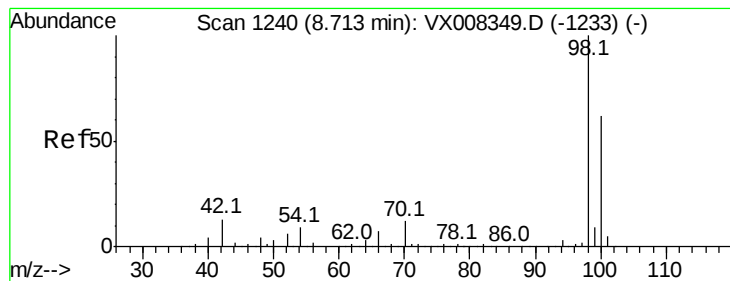


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.706 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

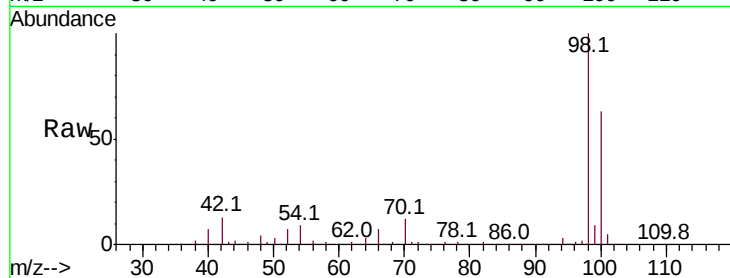
M4-T0-OZ(PRE)

Tot Ion: 98 Resp: 484882

Ion Ratio Lower Upper

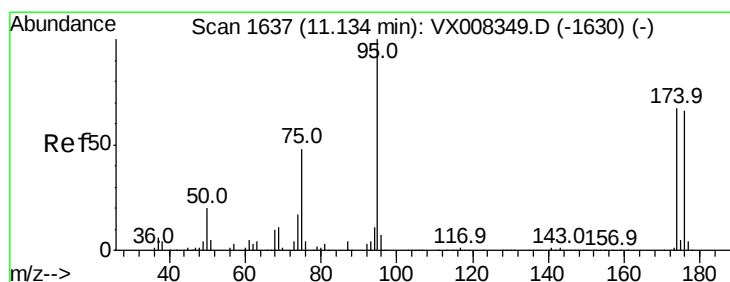
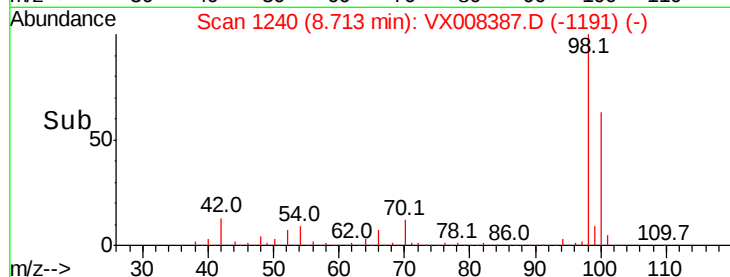
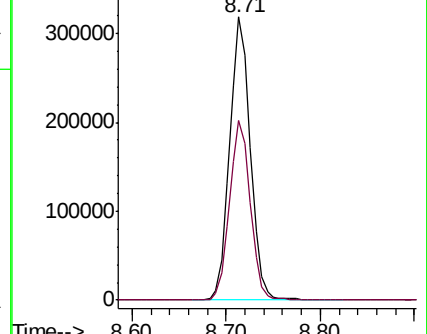
98 100

100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 44.666 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

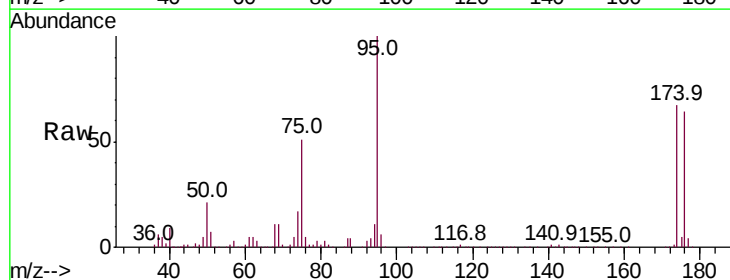
Tgt Ion: 95 Resp: 163266

Ion Ratio Lower Upper

95 100

174 73.3 0.0 182.8

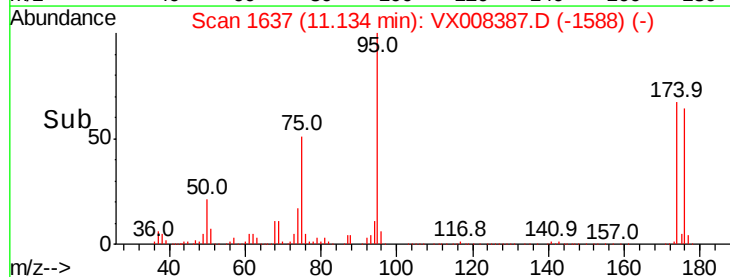
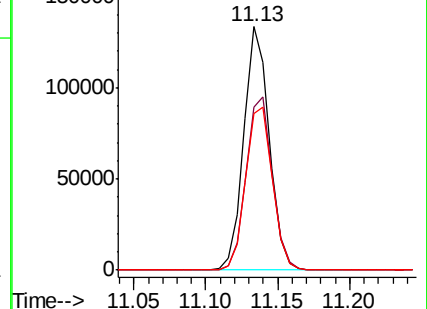
176 70.6 0.0 178.0

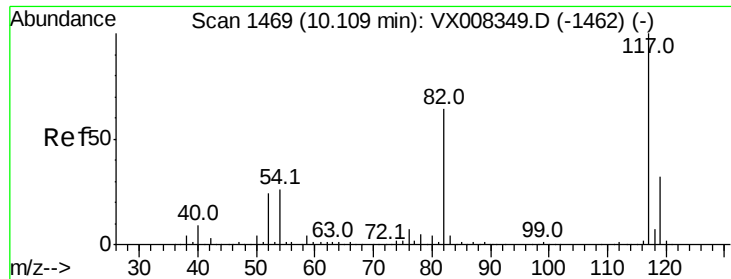


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

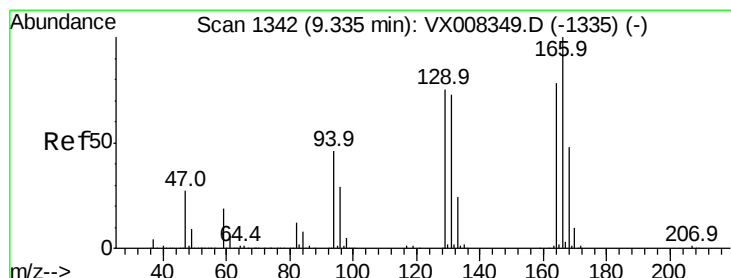
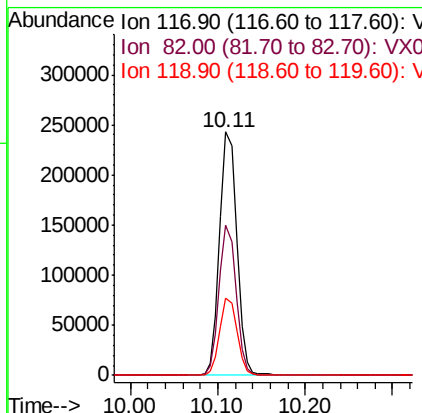
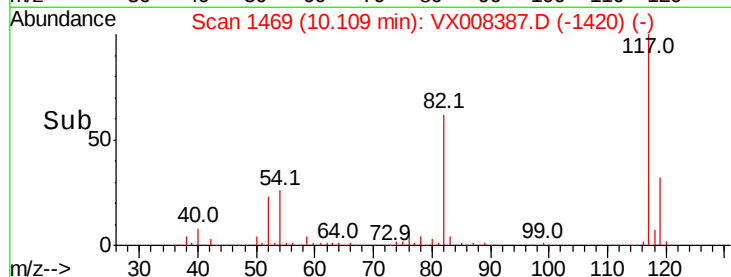
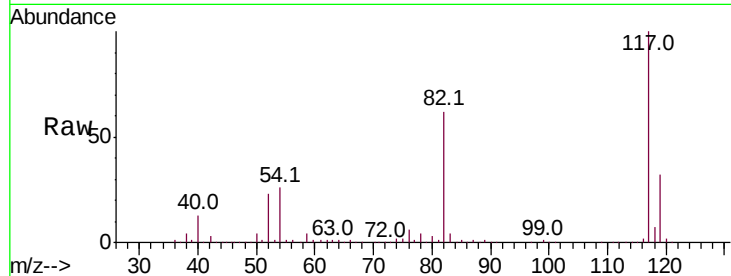




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

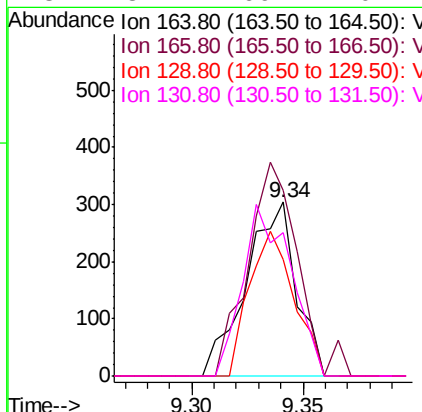
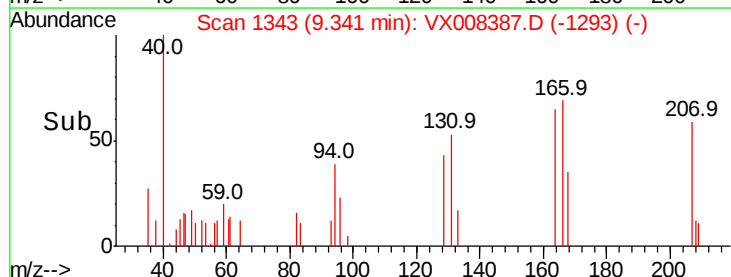
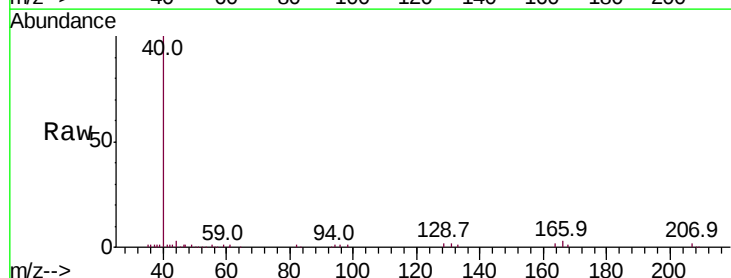
Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

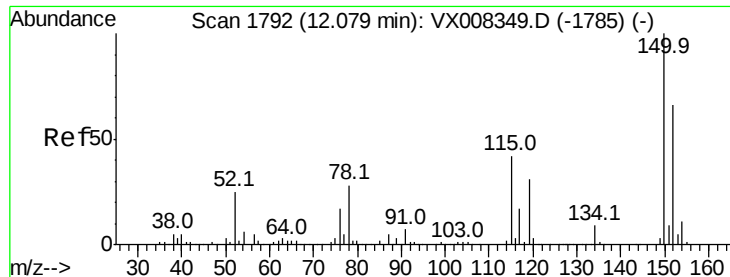
Tot Ion:117 Resp: 332782
Ion Ratio Lower Upper
117 100
82 61.7 44.3 66.5
119 31.7 25.3 37.9



#64
Tetrachloroethene
Concen: 0.220 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

Tgt Ion:164 Resp: 478
Ion Ratio Lower Upper
164 100
166 106.6 103.4 155.0
129 67.1 72.2 108.4#
131 82.2 69.4 104.2



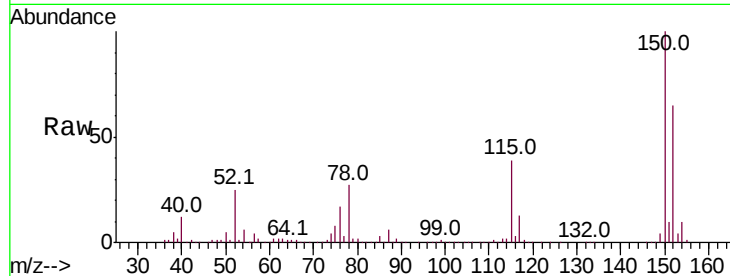


#72

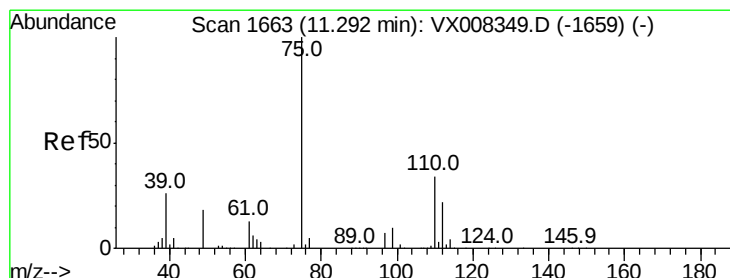
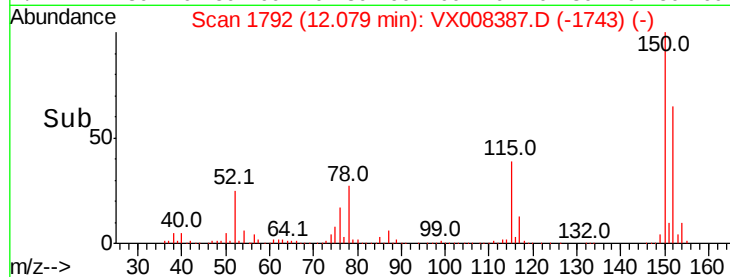
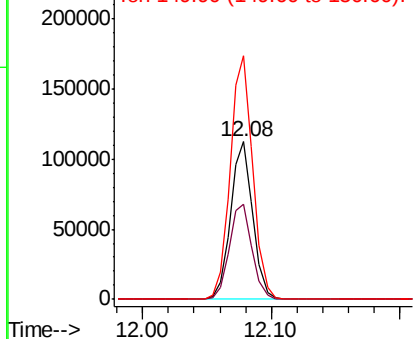
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

Instrument :
MSVOA_X
ClientSampleId :
M4-T0-OZ(PRE)

Tot Ion:152 Resp: 134773
Ion Ratio Lower Upper
152 100
115 62.5 38.6 115.7
150 157.4 0.0 348.4



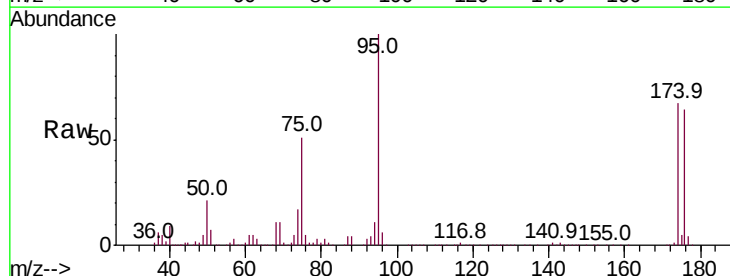
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



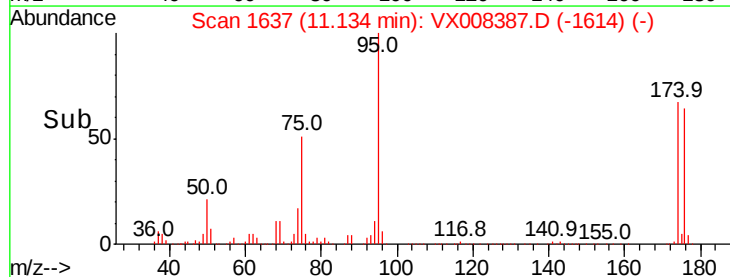
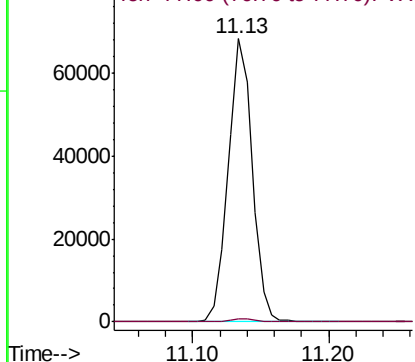
#76

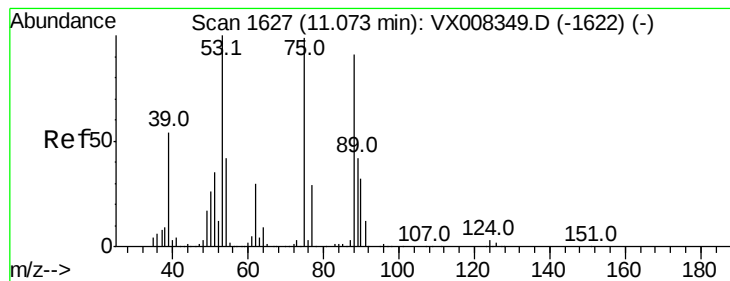
1,2,3-Trichloropropane
Concen: 23.827 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008387.D
Acq: 24 Mar 2019 13:22

Tgt Ion: 75 Resp: 84053
Ion Ratio Lower Upper
75 100
77 1.2 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.900 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008387.D

Acq: 24 Mar 2019 13:22

Instrument :

MSVOA_X

ClientSampleId :

M4-T0-OZ(PRE)

Tot Ion: 75 Resp: 84053

Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.0 36.3 54.5#

