

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040119\
 Data File : VX008576.D
 Acq On : 01 Apr 2019 18:06
 Operator : JC/SP
 Sample : K2210-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:14:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	223570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	373408	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	328075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136784	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	155001	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
35) Dibromofluoromethane	5.50	113	115047	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	8.71	98	472543	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.13	95	161074	44.65	ug/l	0.00
Spiked Amount			Recovery	=	89.30%	

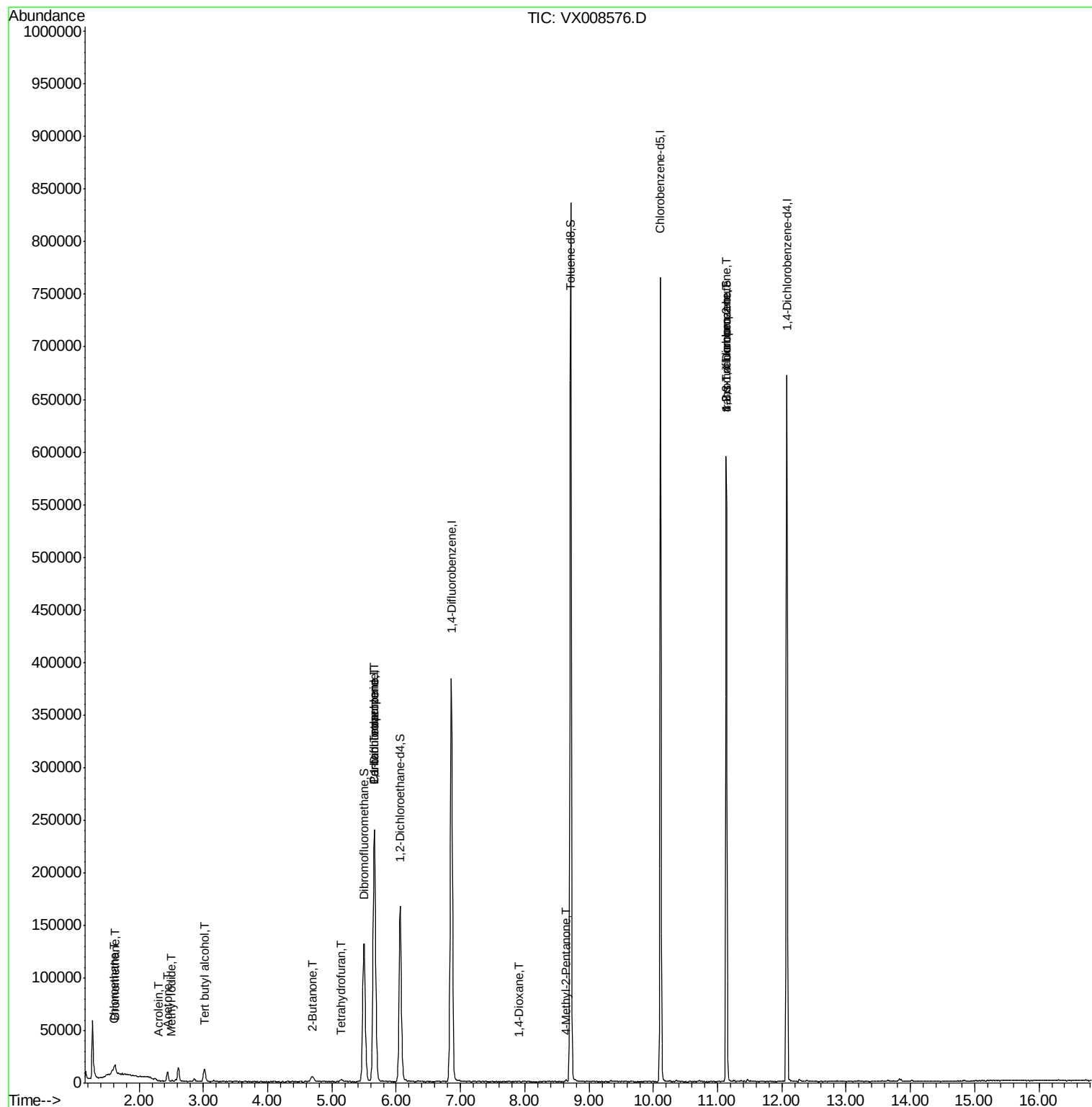
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	483	Below Cal	#	82
5) Bromomethane	1.64	94	866	2.240	ug/l	86
6) Chloroethane	1.60	64	17754	8.145	ug/l #	56
10) Methyl Iodide	2.51	142	694	4.389	ug/l #	94
11) Tert butyl alcohol	3.02	59	8476	11.287	ug/l #	78
13) Acrolein	2.31	56	139	0.255	ug/l #	14
16) Acetone	2.44	43	9836	5.552	ug/l	98
17) Carbon Disulfide	2.57	76	1732	Below Cal	#	90
20) Methylene Chloride	2.85	84	1054	Below Cal		96
21) trans-1,2-Dichloroethene	3.17	96	178	Below Cal	#	85
25) 2-Butanone	4.69	43	3171	1.117	ug/l	93
29) Tetrahydrofuran	5.15	42	2392	1.278	ug/l	97
36) 1,1-Dichloropropene	5.66	75	18984	4.768	ug/l #	51
38) Carbon Tetrachloride	5.66	117	21959	6.609	ug/l #	16
49) 1,4-Dioxane	7.91	88	22	0.268	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	1371	0.256	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	82001	20.165	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	82001	64.586	ug/l #	9

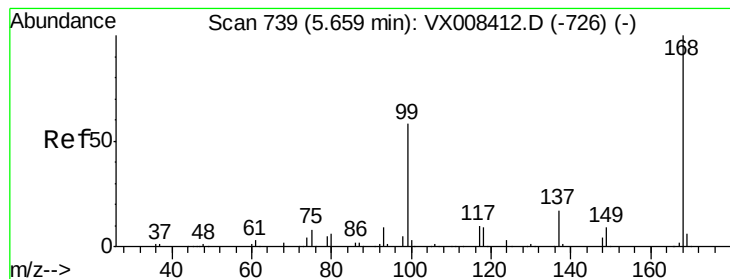
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

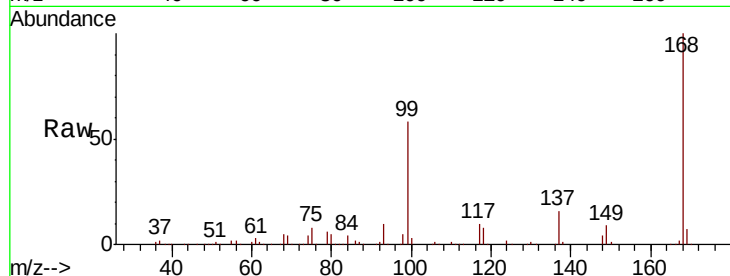
ClientSampled :

Tot Ion:168 Resp: 223570

Ion Ratio Lower Upper

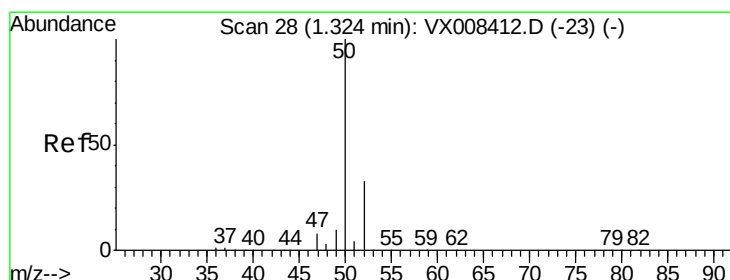
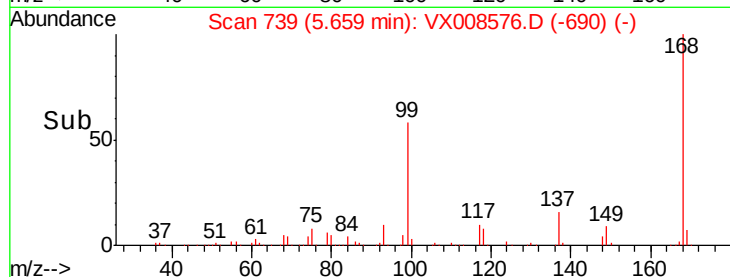
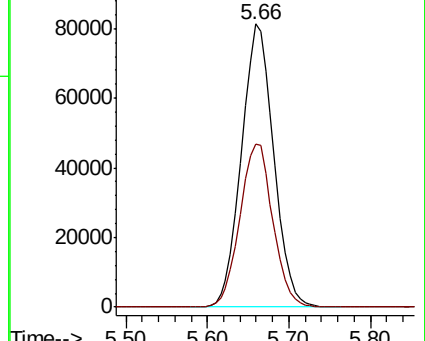
168 100

99 57.6 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008576.D

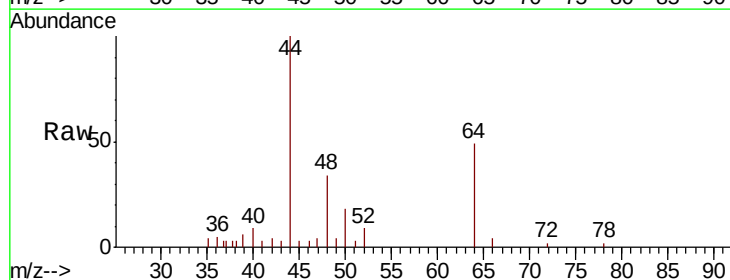
Acq: 01 Apr 2019 18:06

Tgt Ion: 50 Resp: 483

Ion Ratio Lower Upper

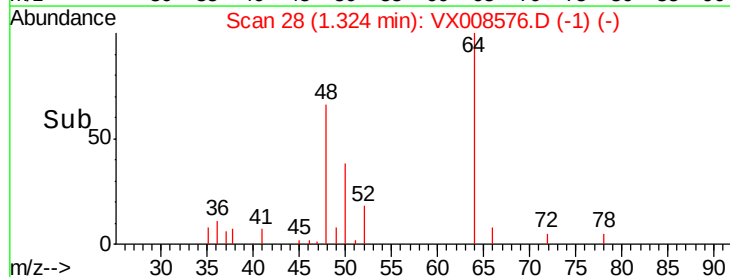
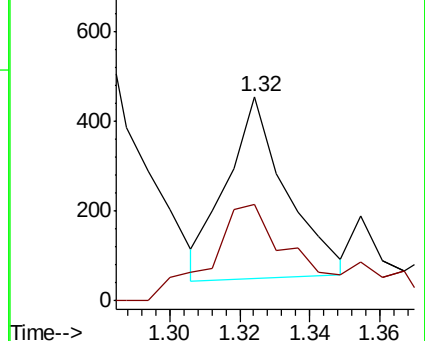
50 100

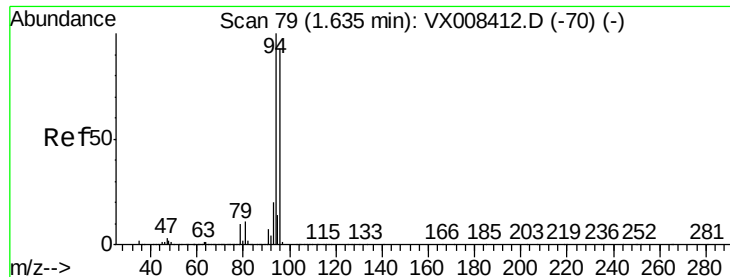
52 42.8 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.240 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

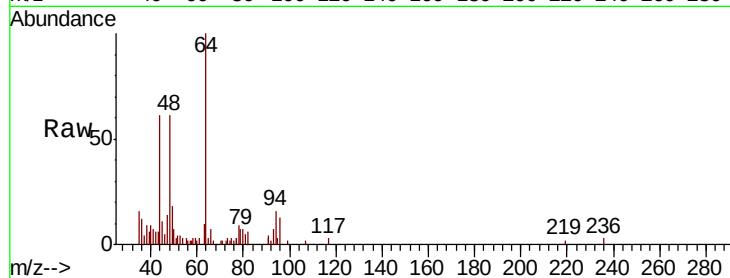
ClientSampleId :

Tot Ion: 94 Resp: 866

Ion Ratio Lower Upper

94 100

96 79.6 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

200

100

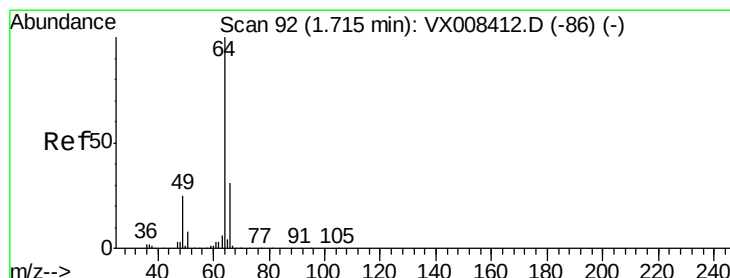
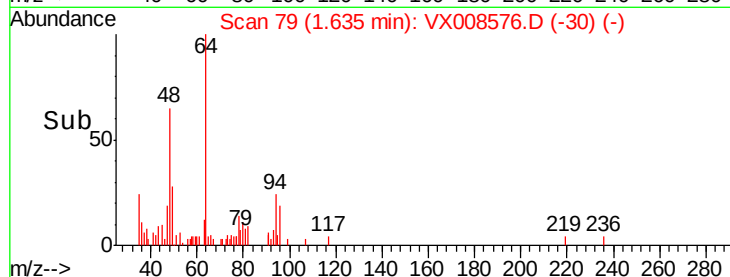
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 8.145 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX008576.D

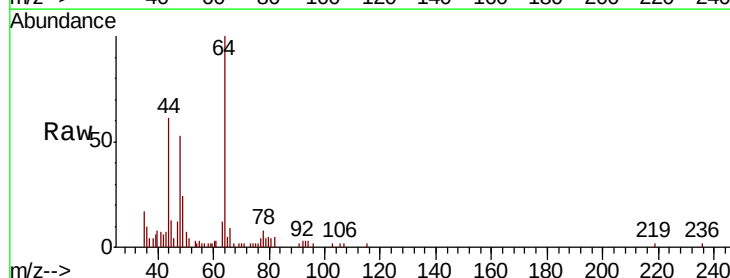
Acq: 01 Apr 2019 18:06

Tgt Ion: 64 Resp: 17754

Ion Ratio Lower Upper

64 100

66 7.2 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.60

3000

2000

1000

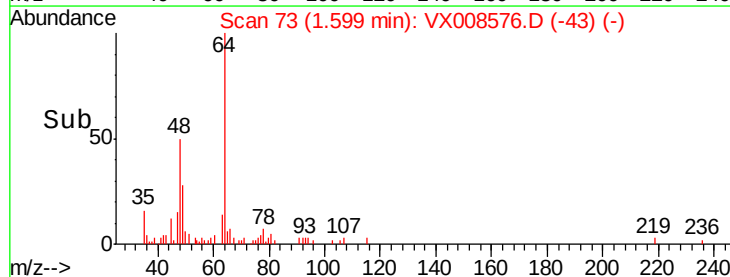
0

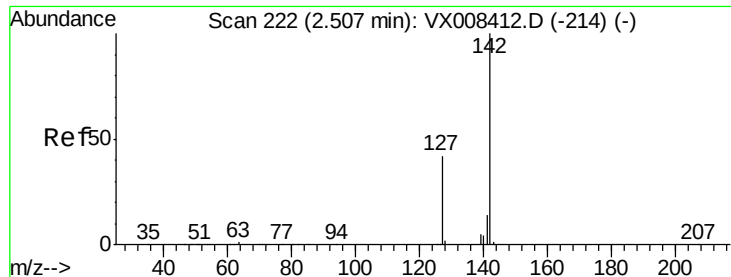
1.40

1.50

1.60

Time-->

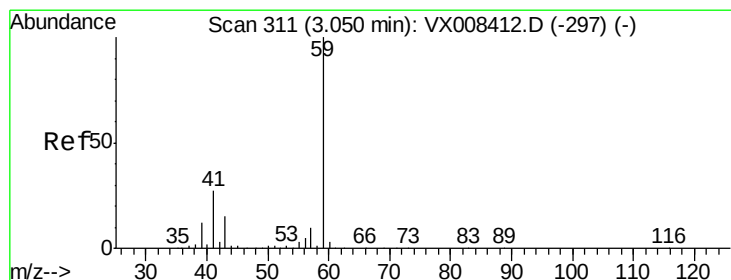
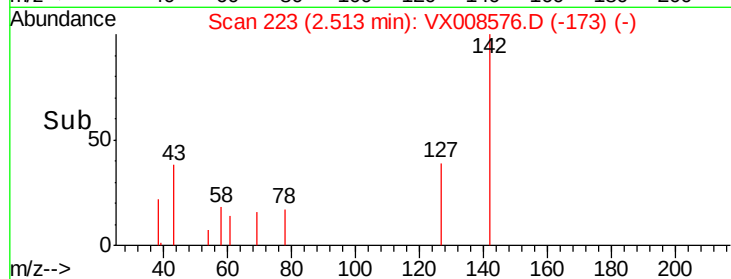
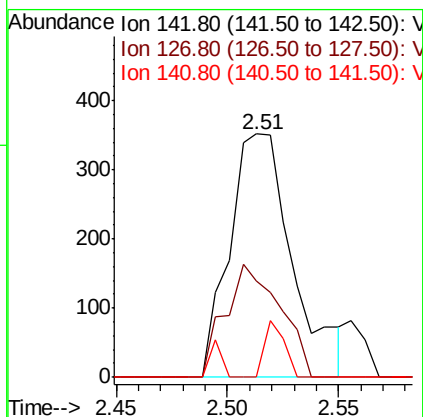
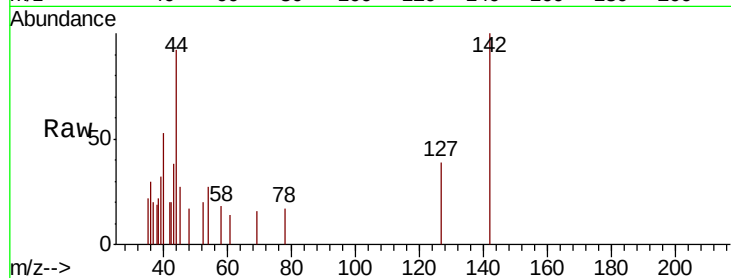




#10
Methvl Iodide
Concen: 4.389 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008576.D
Acq: 01 Apr 2019 18:06

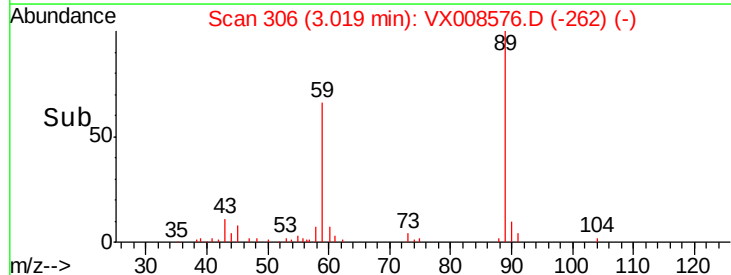
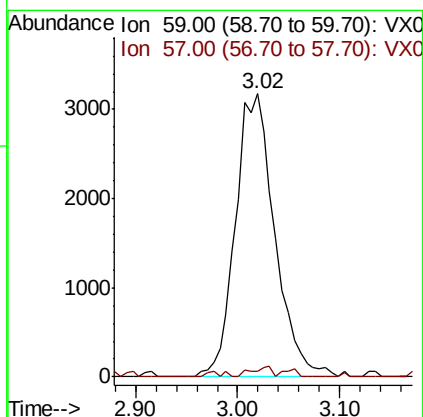
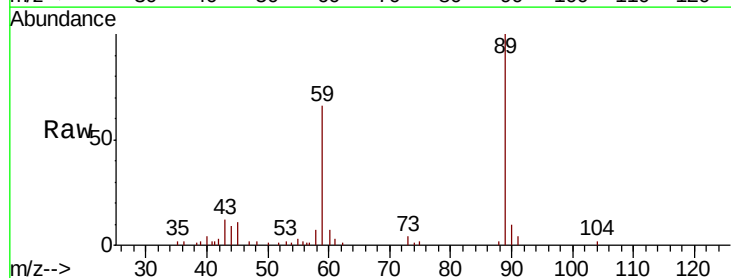
Instrument :
MSVOA_X
ClientSampleId :

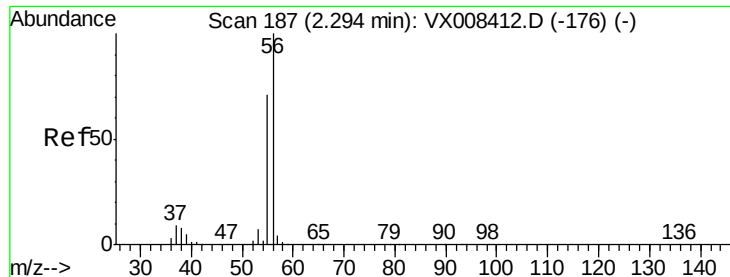
Tot Ion:142 Resp: 694
Ion Ratio Lower Upper
142 100
127 40.3 33.6 50.4
141 7.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 11.287 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008576.D
Acq: 01 Apr 2019 18:06

Tgt Ion: 59 Resp: 8476
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.4#





#13

Acrolein

Concen: 0.255 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

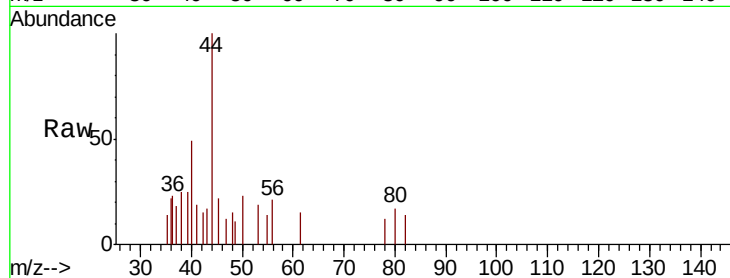
ClientSampleId :

Tot Ion: 56 Resp: 139

Ion Ratio Lower Upper

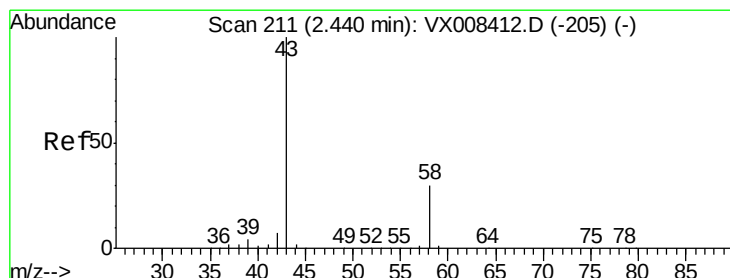
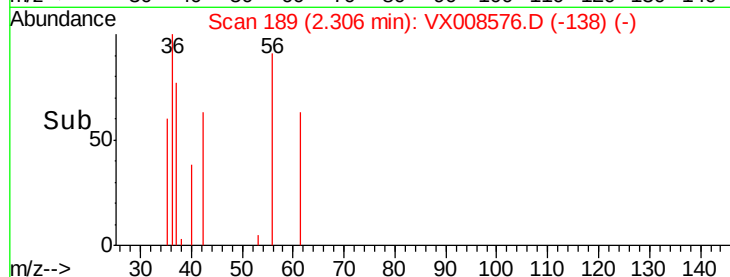
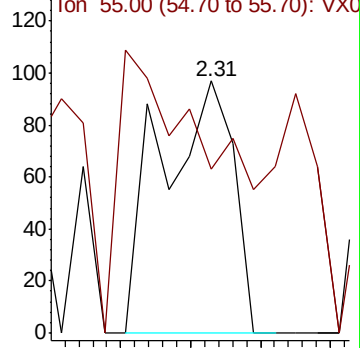
56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.552 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008576.D

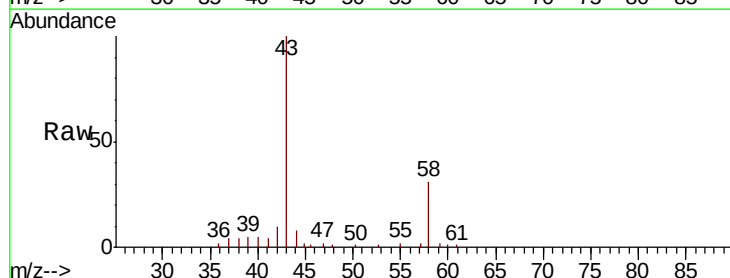
Acq: 01 Apr 2019 18:06

Tgt Ion: 43 Resp: 9836

Ion Ratio Lower Upper

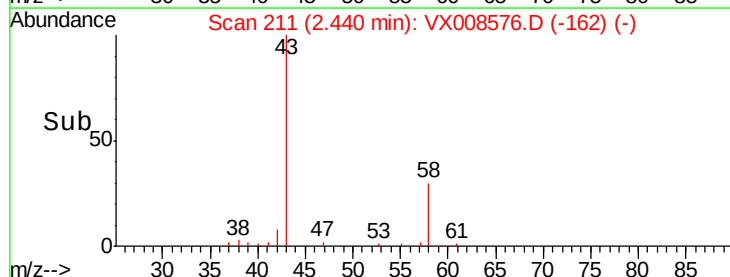
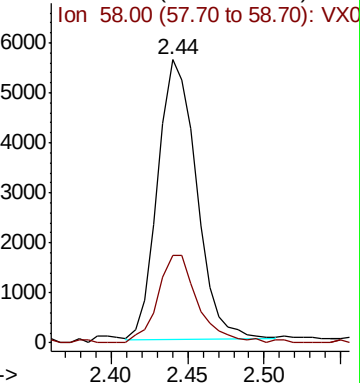
43 100

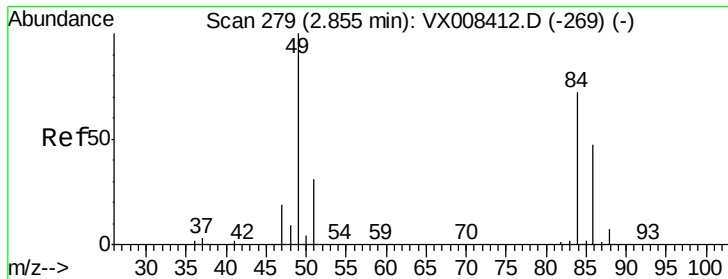
58 31.3 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 1054

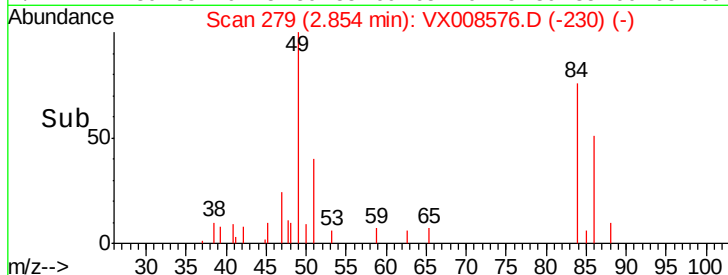
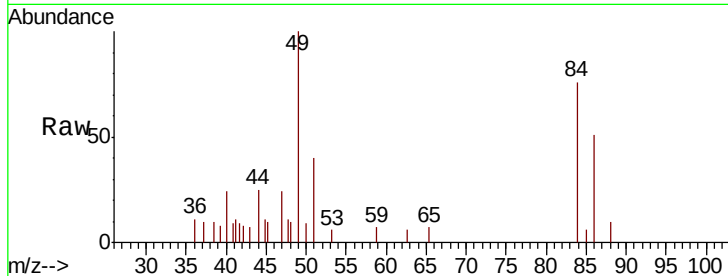
Ion Ratio Lower Upper

84 100

49 131.1 110.6 165.8

51 44.8 33.9 50.9

86 66.7 52.2 78.2



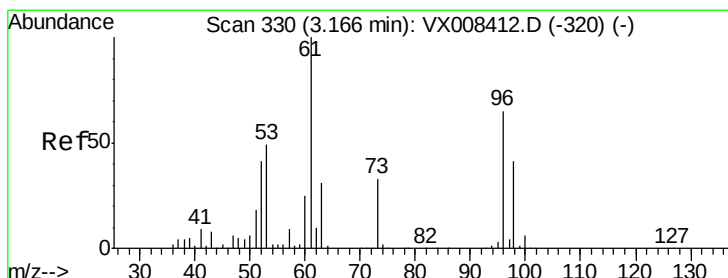
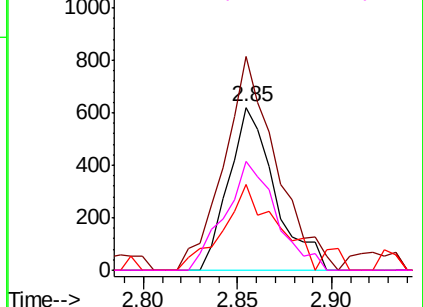
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

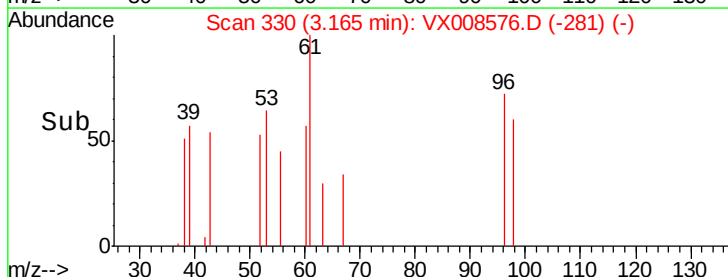
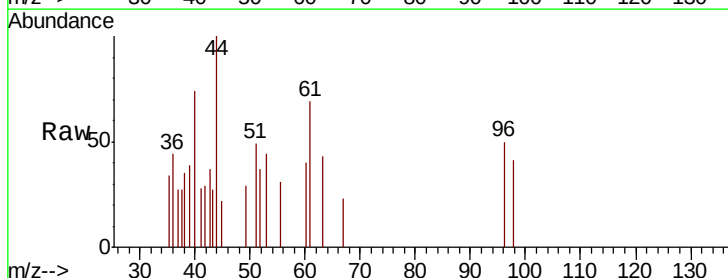
Tgt Ion: 96 Resp: 178

Ion Ratio Lower Upper

96 100

61 139.0 122.6 184.0

98 83.1 50.9 76.3#

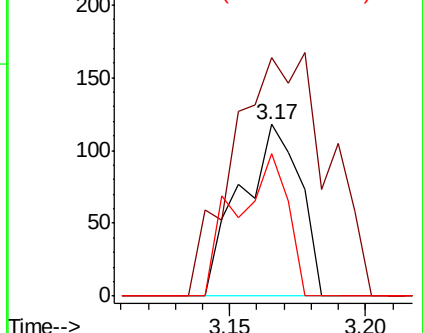


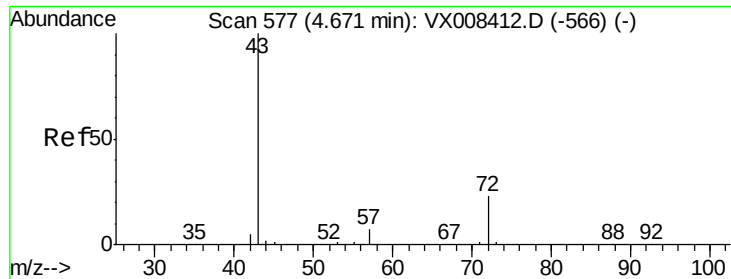
Abundance

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





#25

2-Butanone

Concen: 1.117 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

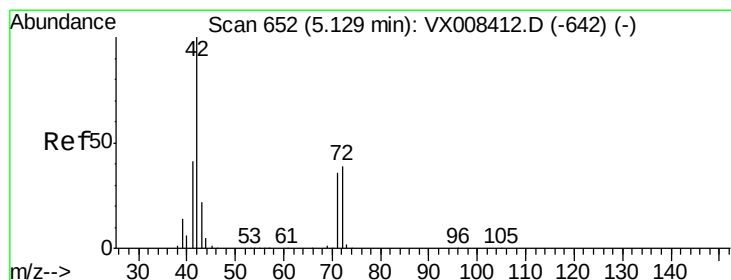
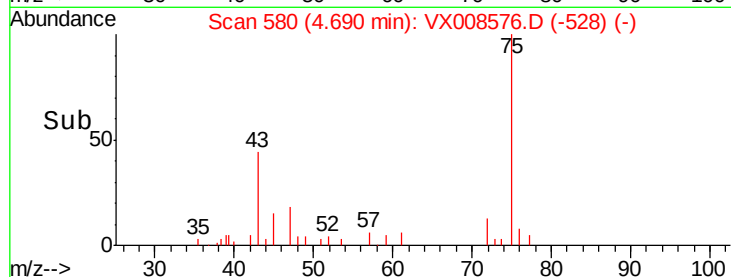
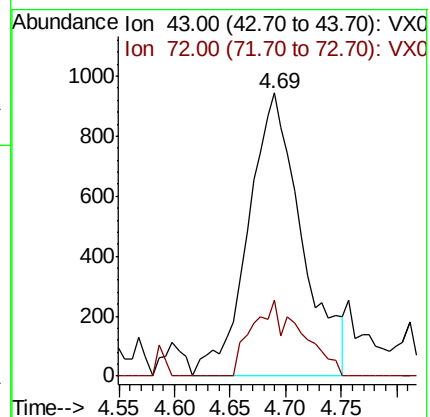
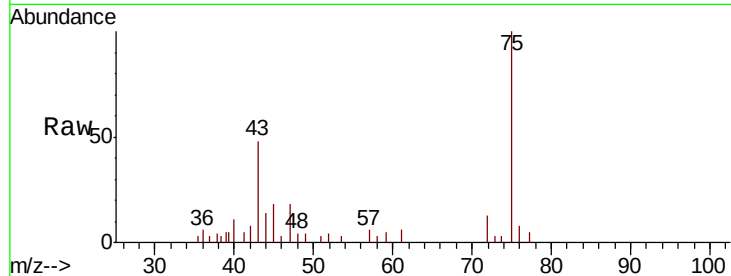
ClientSampled :

Tot Ion: 43 Resp: 3171

Ion Ratio Lower Upper

43 100

72 26.7 18.6 28.0



#29

Tetrahydrofuran

Concen: 1.278 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

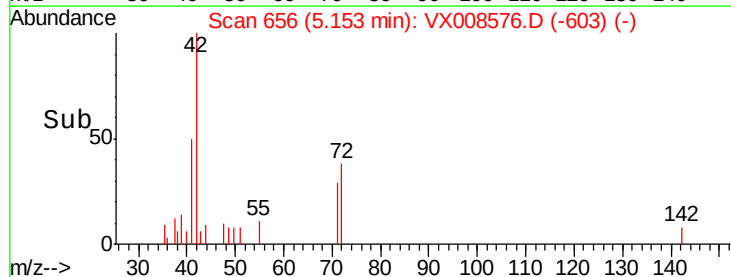
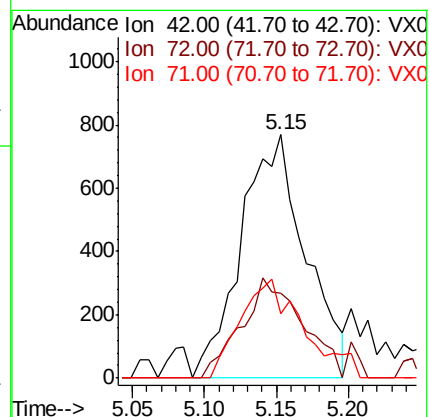
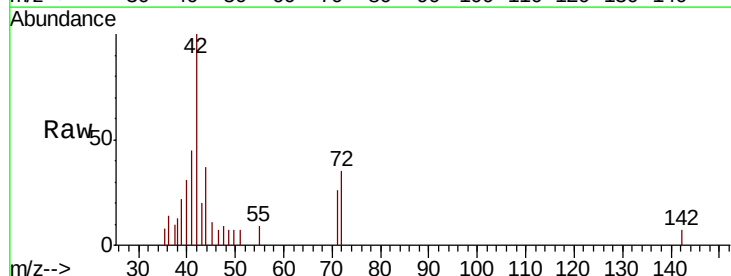
Tgt Ion: 42 Resp: 2392

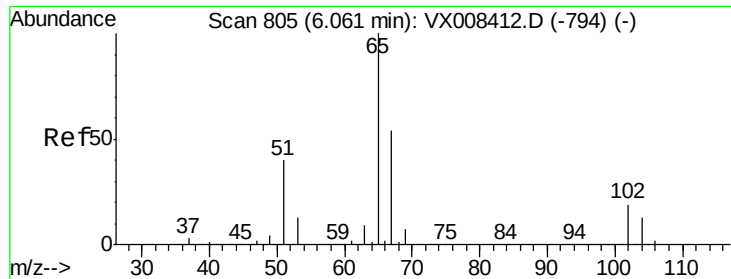
Ion Ratio Lower Upper

42 100

72 38.9 31.4 47.2

71 39.8 29.4 44.2

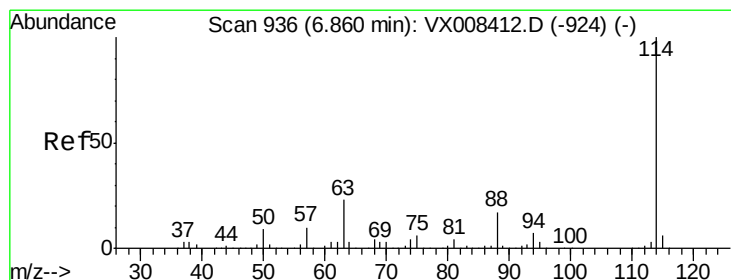
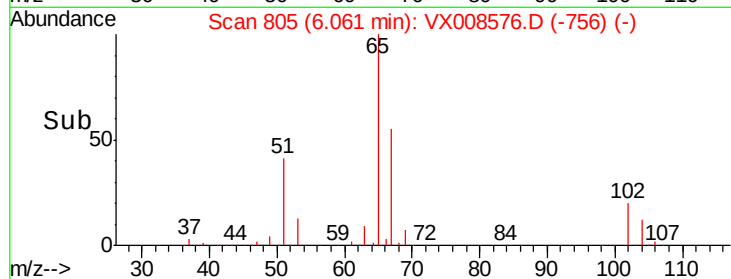
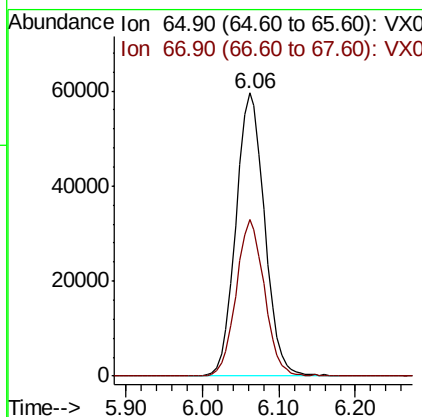
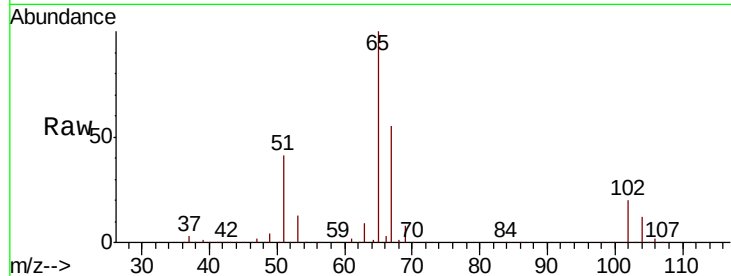




#33
 1,2-Dichloroethane-d4
 Concen: 45.731 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

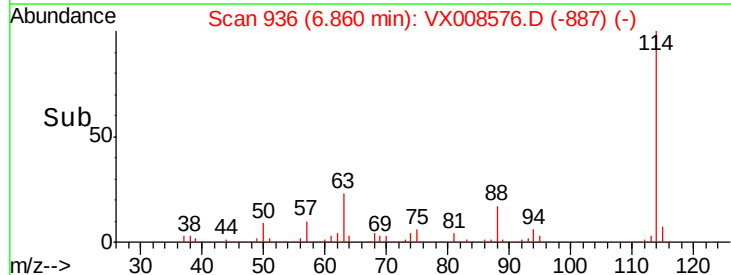
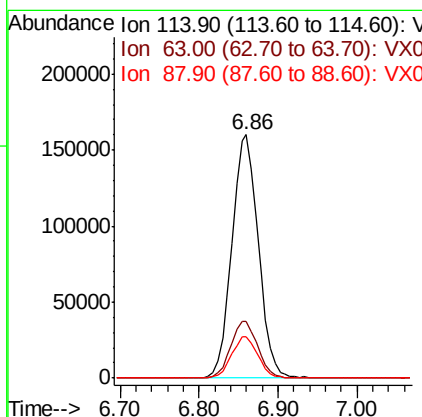
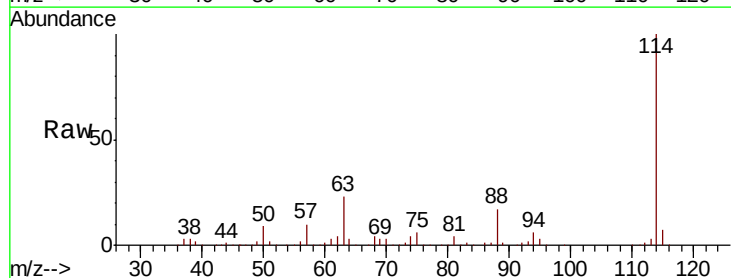
Instrument :
 MSVOA_X
 ClientSampleId :

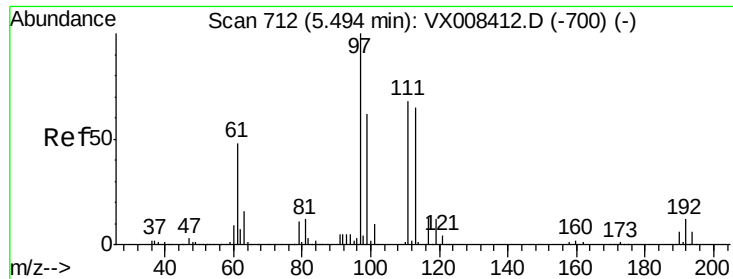
Tot Ion: 65 Resp: 155001
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

Tgt Ion: 114 Resp: 373408
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 46.4
 88 16.8 0.0 33.2

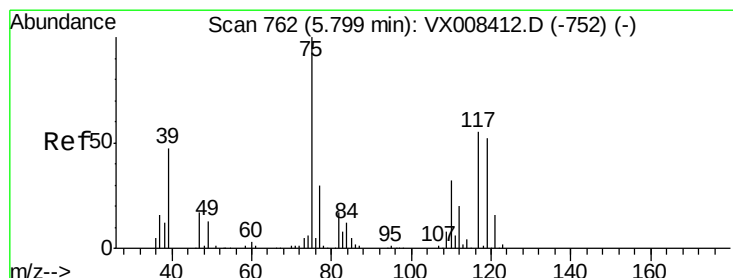
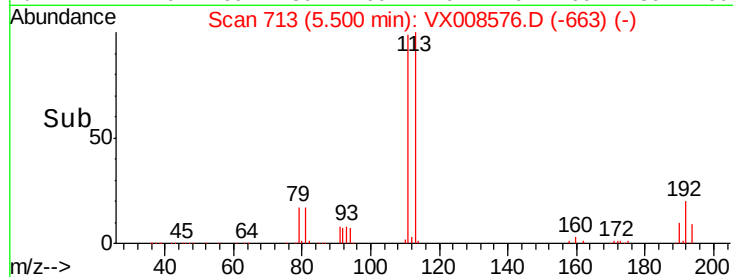
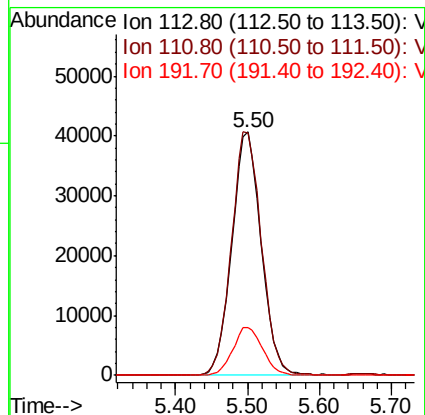
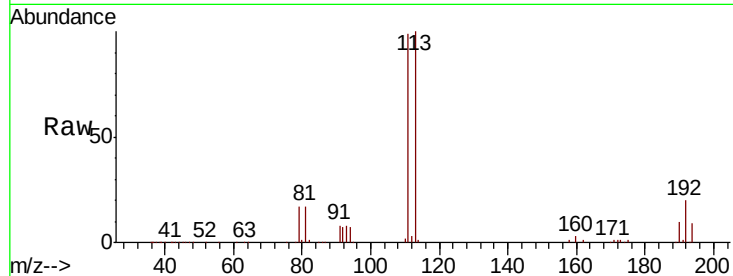




#35
 Dibromofluoromethane
 Concen: 47.251 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

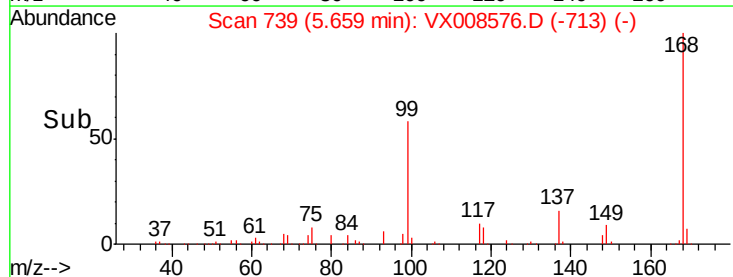
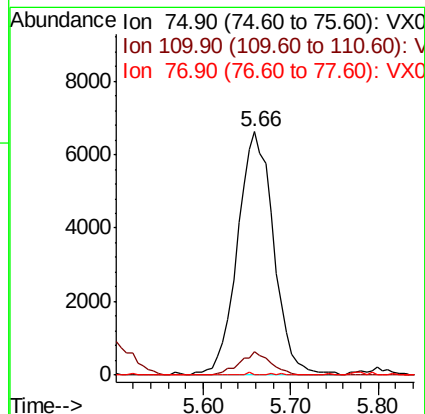
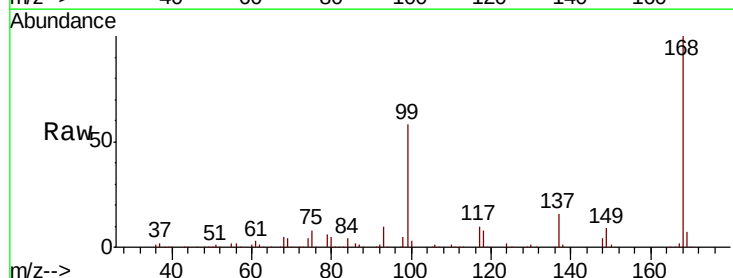
Instrument :
 MSVOA_X
 ClientSampleId :

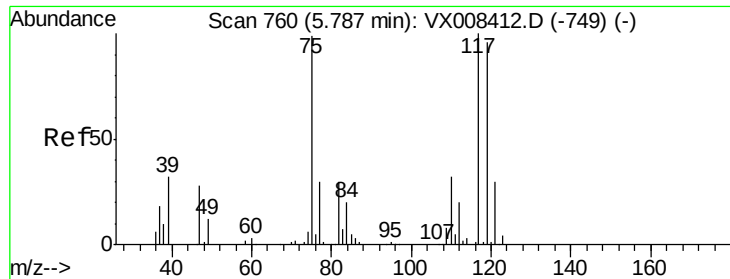
Tot Ion:113 Resp: 115047
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.0 124.4
 192 20.0 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.768 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

Tgt Ion: 75 Resp: 18984
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.1 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.609 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

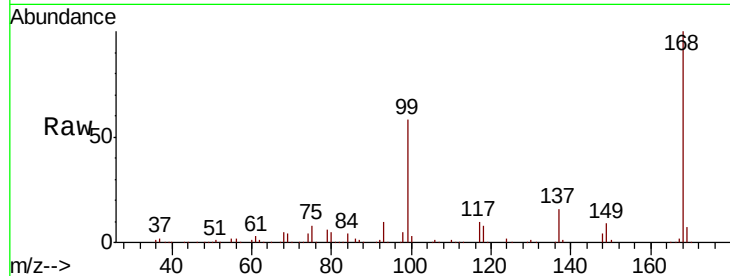
Tot Ion:117 Resp: 21959

Ion Ratio Lower Upper

117 100

119 5.2 76.7 115.1#

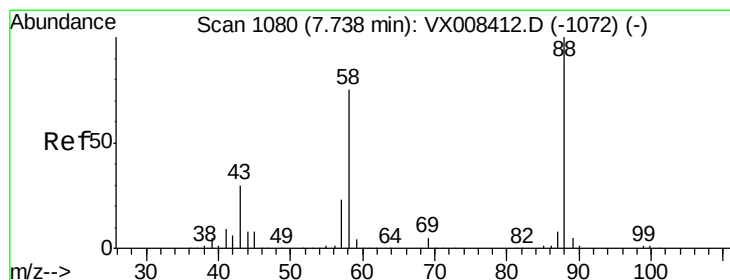
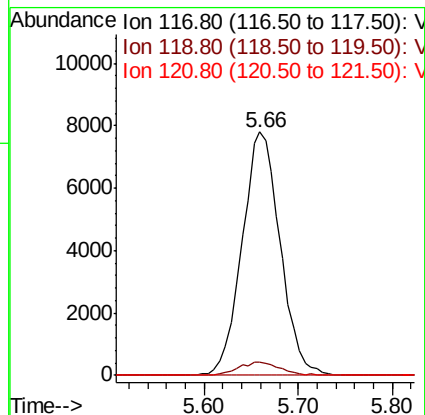
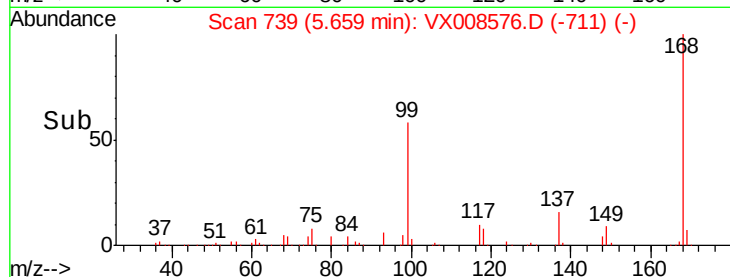
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 0.268 ug/l

RT: 7.91 min Scan# 1108

Delta R.T. 0.17 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

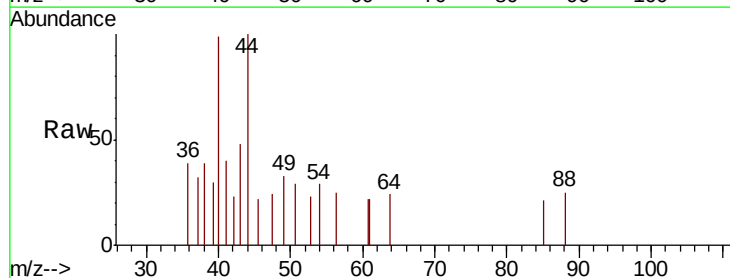
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 1031.8 28.6 43.0#

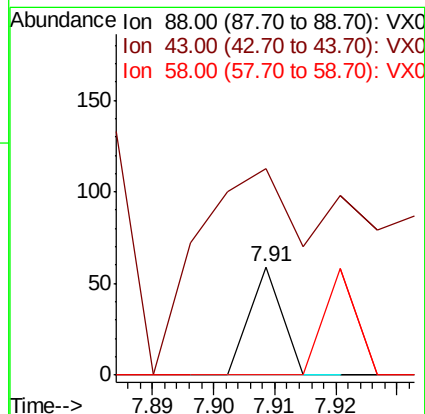
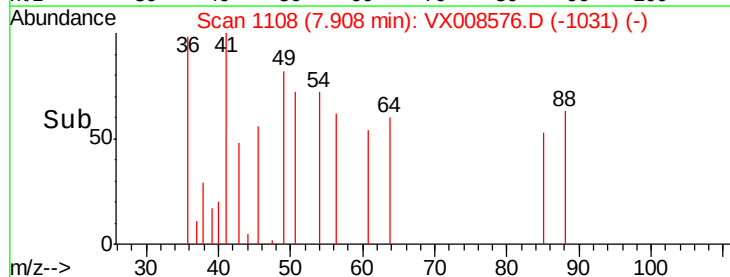
58 95.5 63.0 94.4#

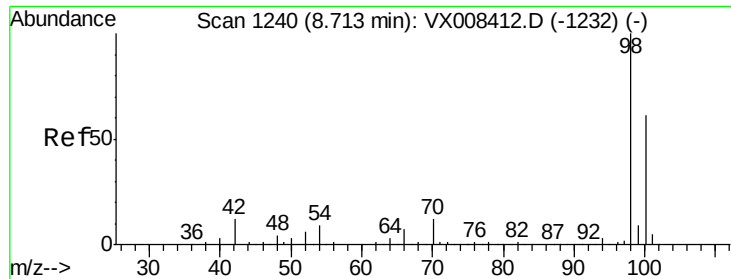


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

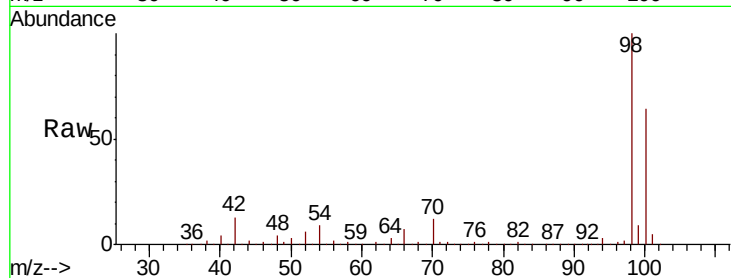




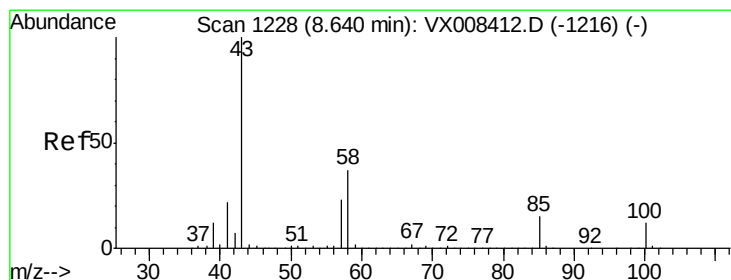
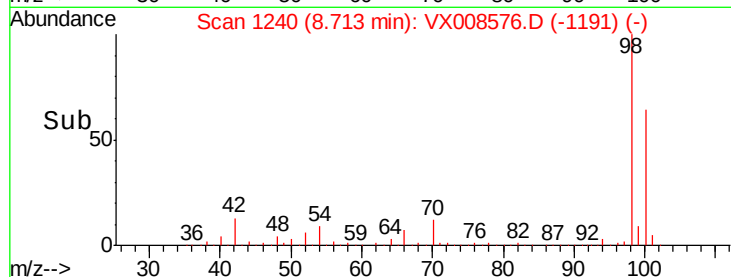
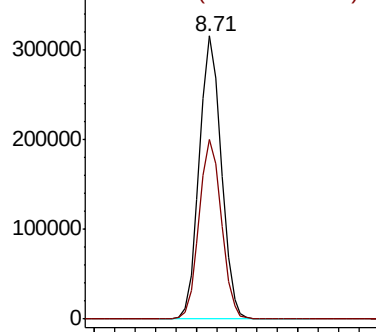
#50
Toluene-d8
Concen: 48.537 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008576.D
Acq: 01 Apr 2019 18:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 472543
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7

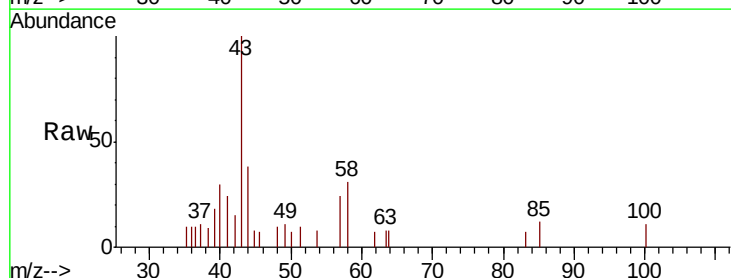


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

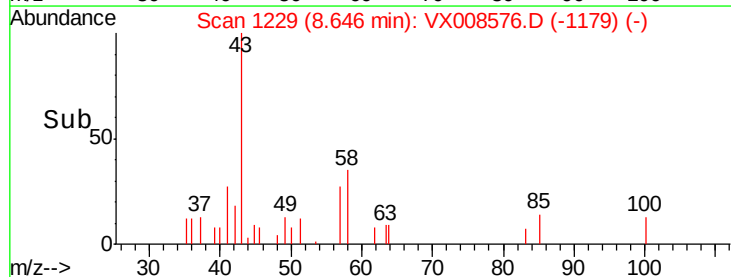
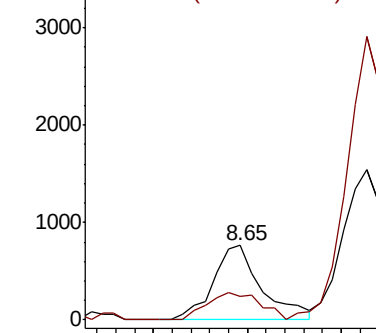


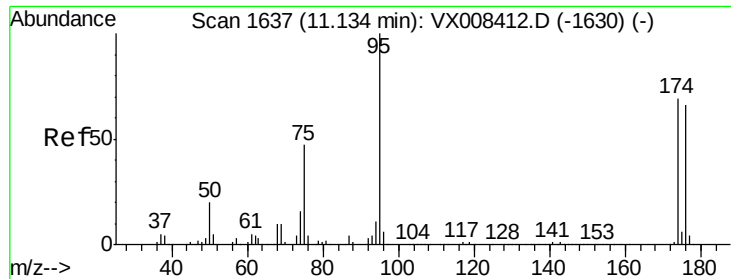
#51
4-Methyl-2-Pentanone
Concen: 0.256 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.01 min
Lab File: VX008576.D
Acq: 01 Apr 2019 18:06

Tgt Ion: 43 Resp: 1371
Ion Ratio Lower Upper
43 100
58 39.6 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

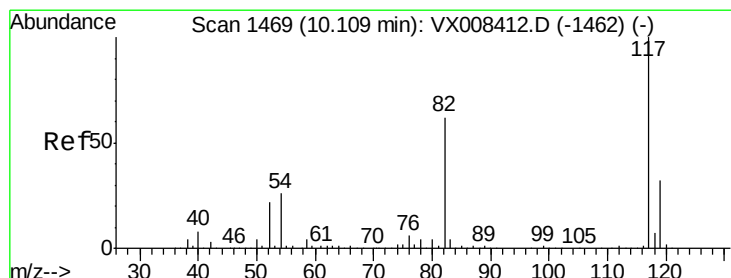
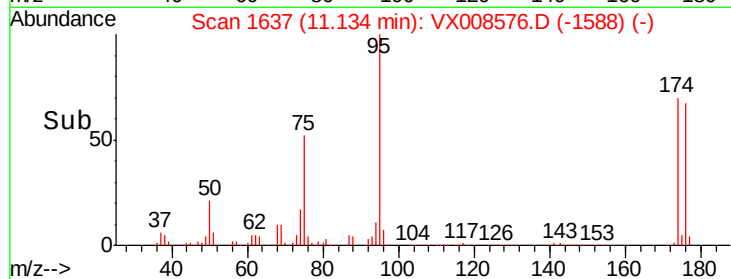
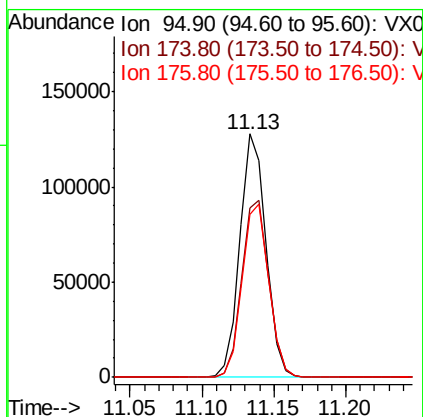
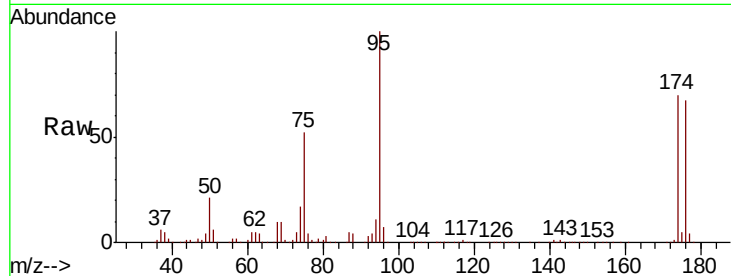




#62
 4-Bromofluorobenzene
 Concen: 44.647 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

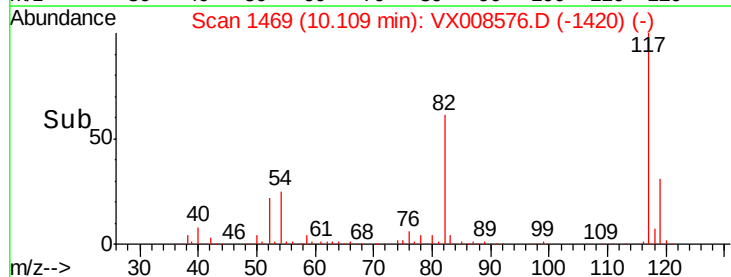
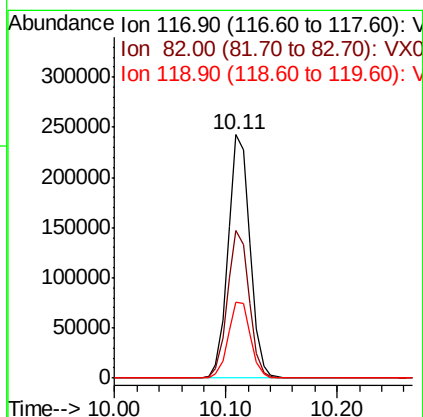
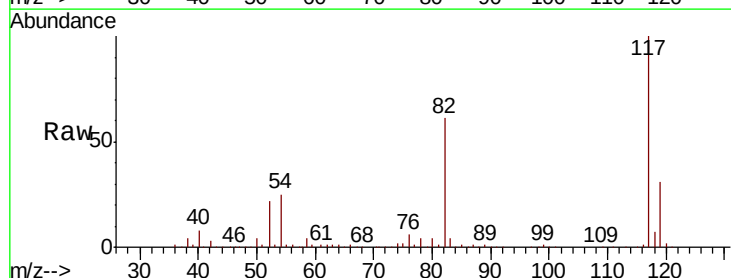
Instrument :
 MSVOA_X
 ClientSampleId :

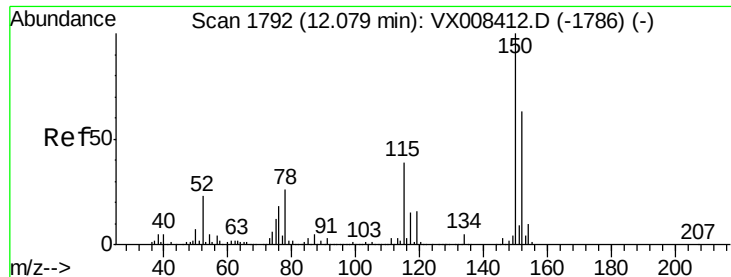
Tot Ion: 95 Resp: 161074
 Ion Ratio Lower Upper
 95 100
 174 75.1 0.0 147.2
 176 72.8 0.0 142.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VX008576.D
 Acq: 01 Apr 2019 18:06

Tgt Ion: 117 Resp: 328075
 Ion Ratio Lower Upper
 117 100
 82 60.8 49.4 74.2
 119 31.3 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

ClientSampled :

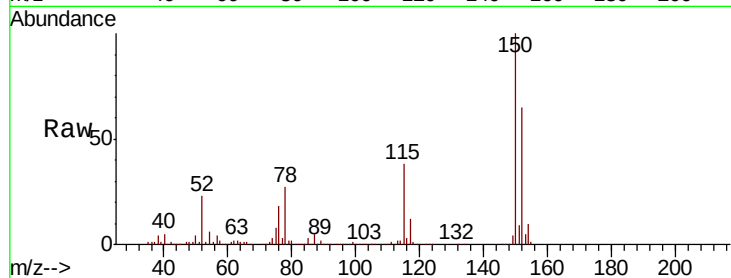
Tot Ion:152 Resp: 136784

Ion Ratio Lower Upper

152 100

115 60.9 43.5 130.5

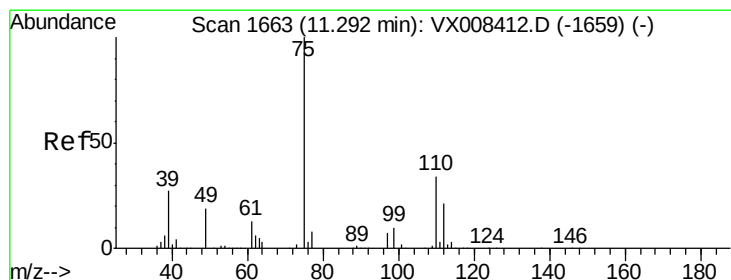
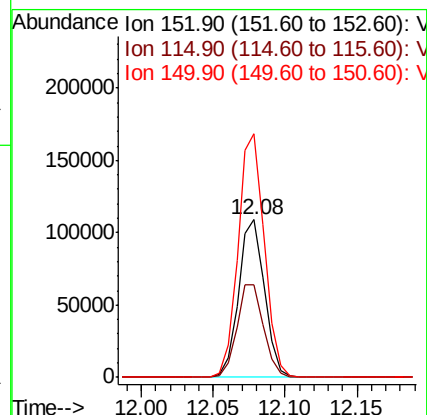
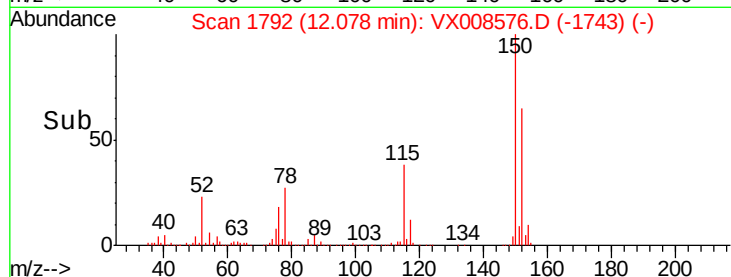
150 157.1 0.0 348.8



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: 20.165 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008576.D

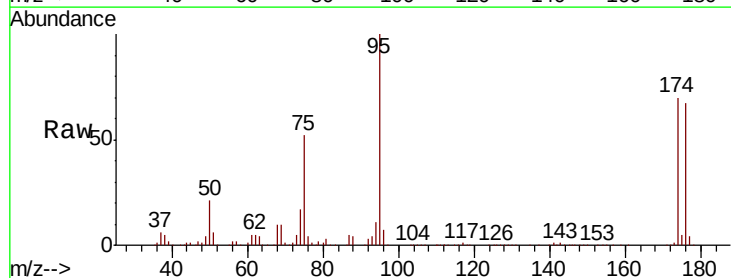
Acq: 01 Apr 2019 18:06

Tgt Ion: 75 Resp: 82001

Ion Ratio Lower Upper

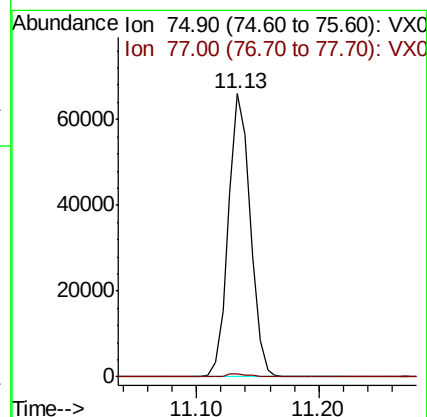
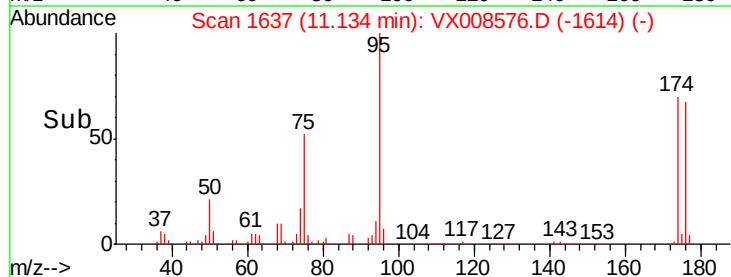
75 100

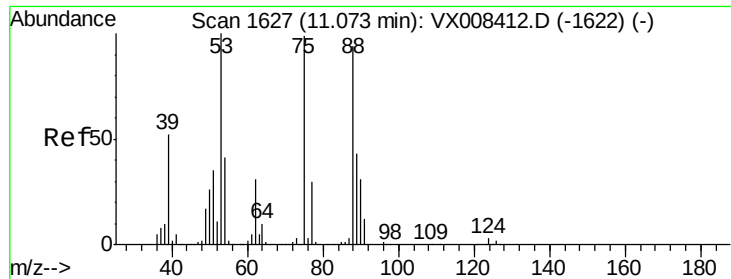
77 1.2 21.9 65.7#



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: 64.586 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008576.D

Acq: 01 Apr 2019 18:06

Instrument :

MSVOA_X

ClientSampleId :

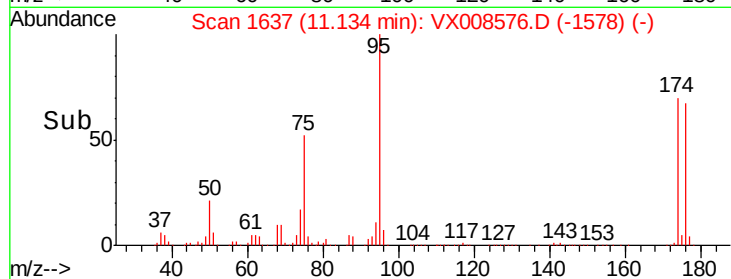
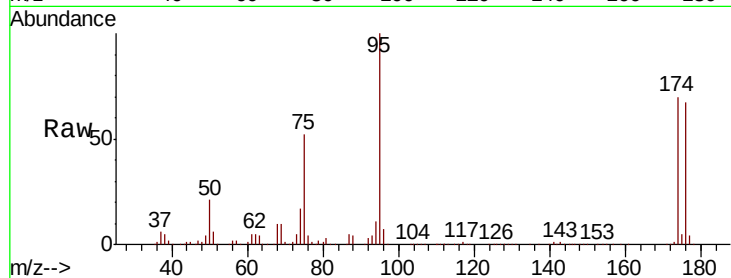
Tot Ion: 75 Resp: 82001

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#



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

