

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042518\
 Data File : VX001132.D
 Acq On : 25 Apr 2018 20:46
 Operator : JC/MD
 Sample : J2464-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 26 04:41:23 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	228025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313850	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	278196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	152084	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	161056	55.72	ug/l	0.00
Spiked Amount			Recovery	=	111.44%	
35) Dibromofluoromethane	5.51	113	124153	51.88	ug/l	0.00
Spiked Amount			Recovery	=	103.76%	
50) Toluene-d8	8.72	98	474267	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
62) 4-Bromofluorobenzene	11.14	95	165103	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

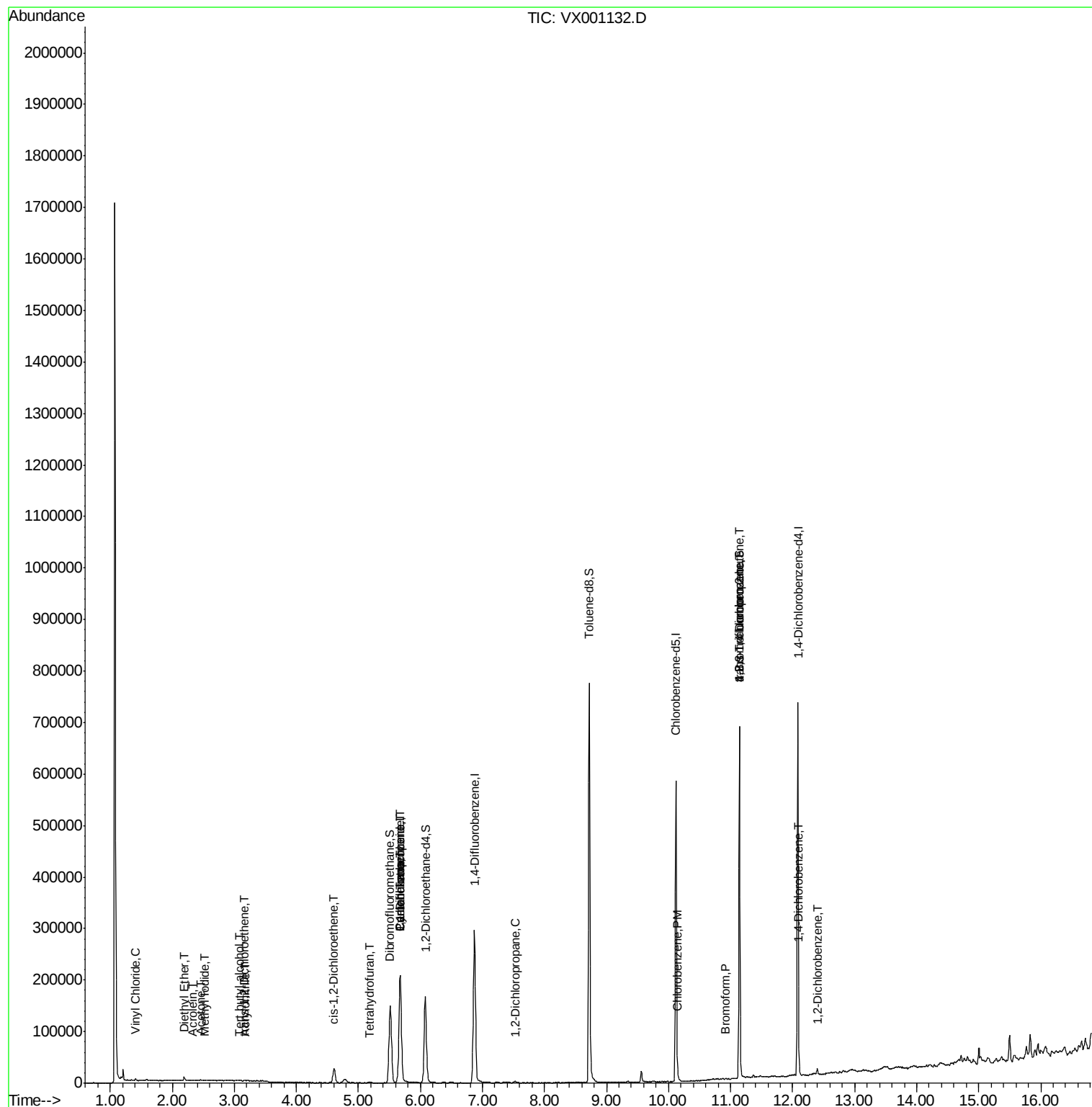
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1888	0.692	ug/l	93
5) Bromomethane	1.65	94	242	Below Cal		93
8) Diethyl Ether	2.19	74	2635	1.740	ug/l	99
10) Methyl Iodide	2.51	142	162	7.658	ug/l #	41
11) Tert butyl alcohol	3.09	59	714	1.638	ug/l #	72
13) Acrolein	2.32	56	155	12.025	ug/l	99
15) Acrylonitrile	3.18	53	240	0.203	ug/l #	24
16) Acetone	2.45	43	1675	1.539	ug/l	90
20) Methylene Chloride	2.86	84	209	Below Cal	#	62
21) trans-1,2-Dichloroethene	3.16	96	639	0.258	ug/l #	75
27) cis-1,2-Dichloroethene	4.60	96	17573	6.379	ug/l	89
29) Tetrahydrofuran	5.17	42	973	0.906	ug/l #	59
31) Cyclohexane	5.67	56	4141	1.016	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13816	3.746	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19451	5.208	ug/l #	15
45) 1,2-Dichloropropane	7.52	63	1059	0.411	ug/l	94
65) Chlorobenzene	10.15	112	2573	0.347	ug/l	91
71) Bromoform	10.91	173	49	2.746	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	85064	32.238	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	85064	95.754	ug/l #	8
88) 1,4-Dichlorobenzene	12.10	146	4637	0.836	ug/l #	58
91) 1,2-Dichlorobenzene	12.40	146	3731	0.713	ug/l	98

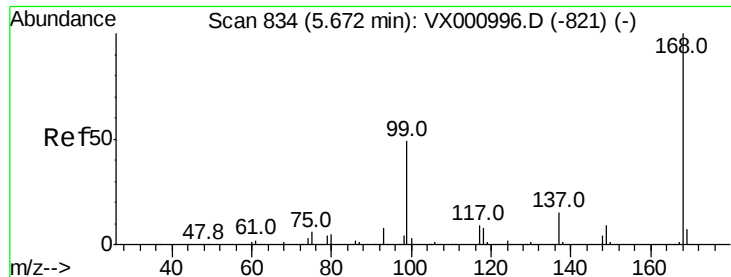
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

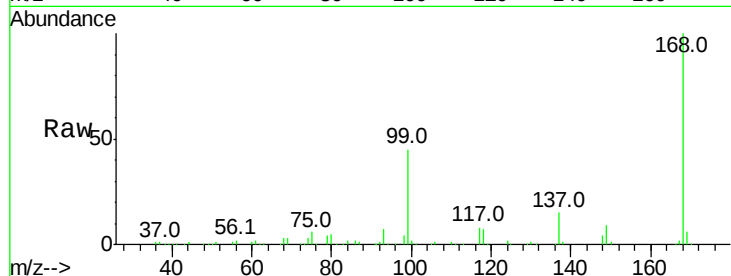
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 228025

Ion Ratio Lower Upper

168 100

99 45.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

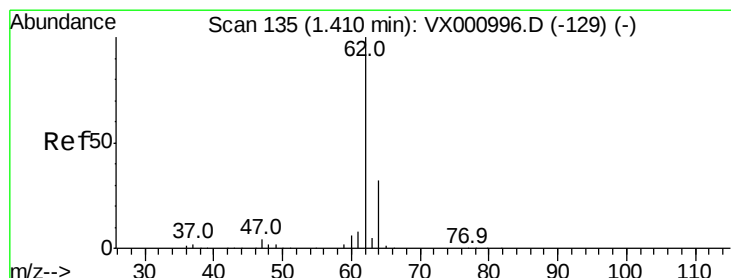
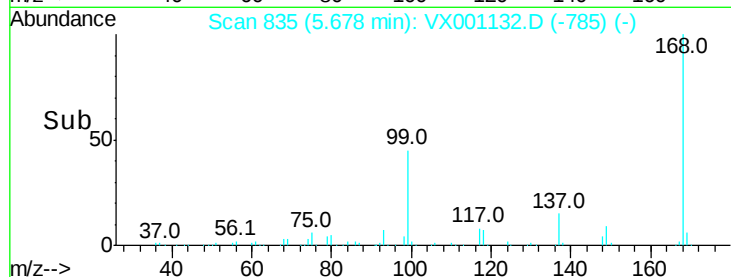
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 0.692 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX001132.D

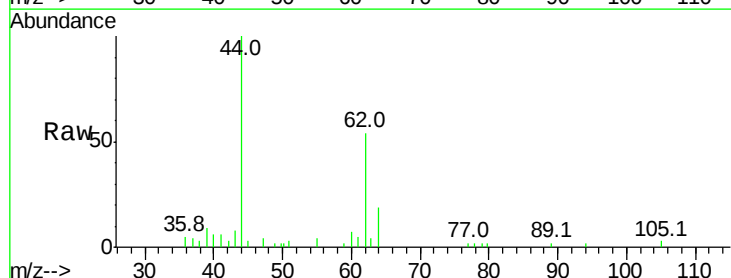
Acq: 25 Apr 2018 20:46

Tgt Ion: 62 Resp: 1888

Ion Ratio Lower Upper

62 100

64 35.7 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

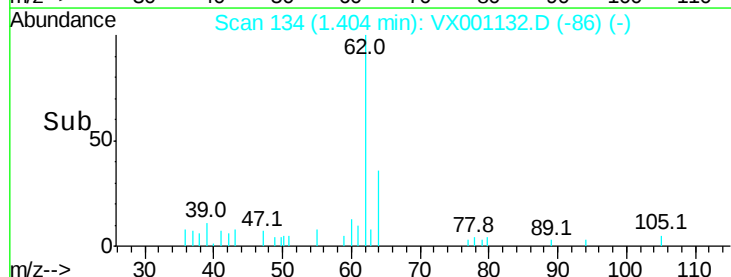
1500

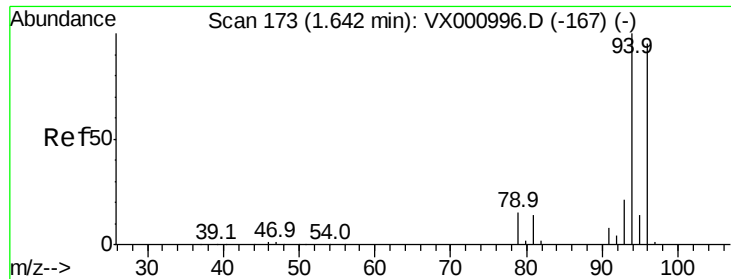
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

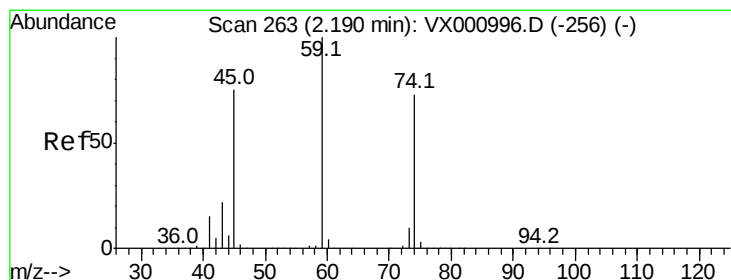
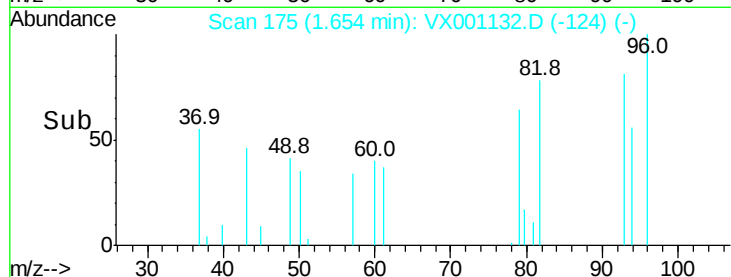
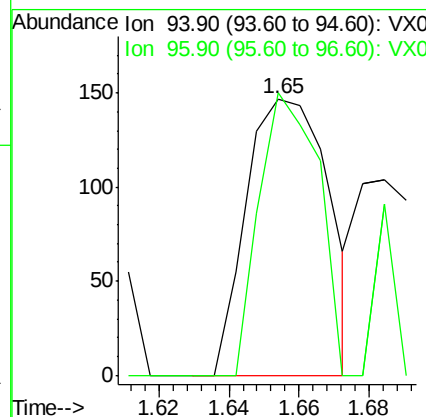
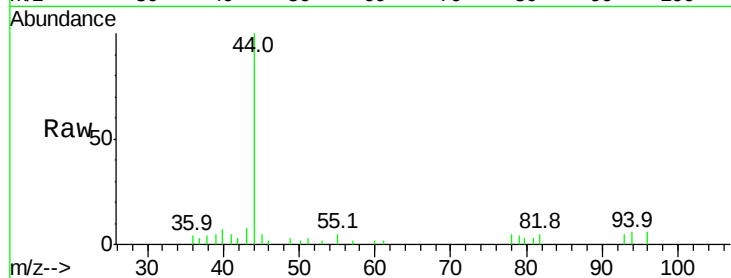
ClientSampled :

Tot Ion: 94 Resp: 242

Ion Ratio Lower Upper

94 100

96 102.0 76.0 114.0



#8

Diethyl Ether

Concen: 1.740 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX001132.D

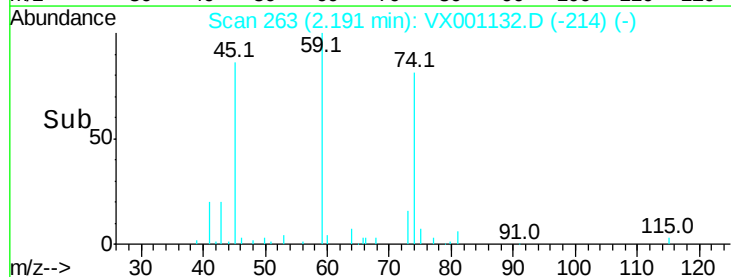
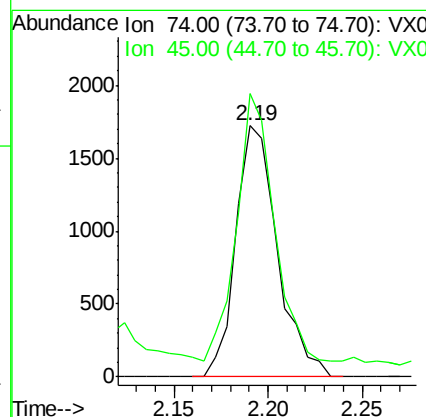
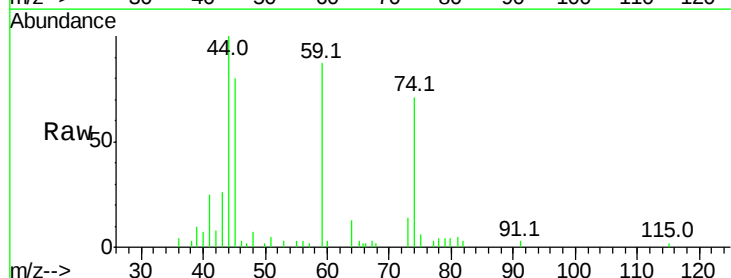
Acq: 25 Apr 2018 20:46

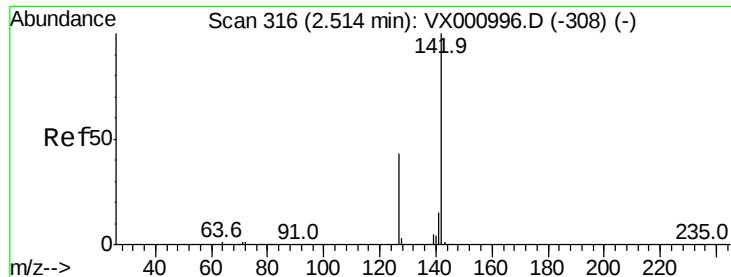
Tgt Ion: 74 Resp: 2635

Ion Ratio Lower Upper

74 100

45 96.6 49.0 147.0





#10

Methvl Iodide

Concen: 7.658 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

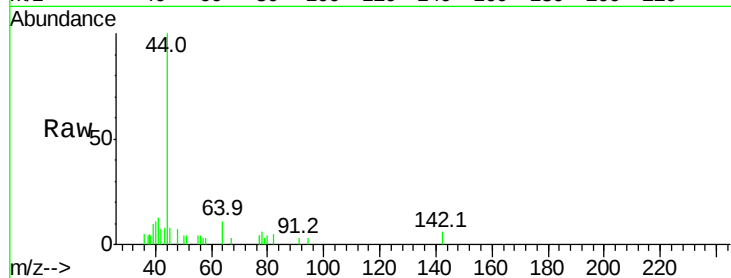
Tot Ion:142 Resp: 162

Ion Ratio Lower Upper

142 100

127 0.0 34.0 51.0#

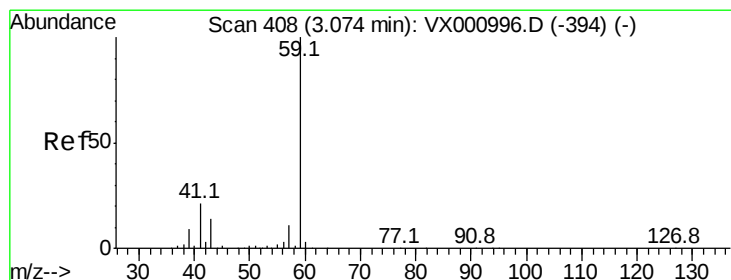
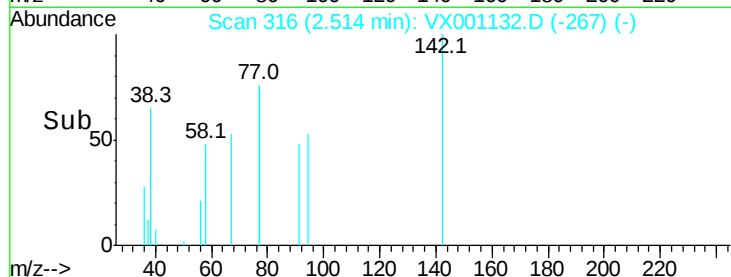
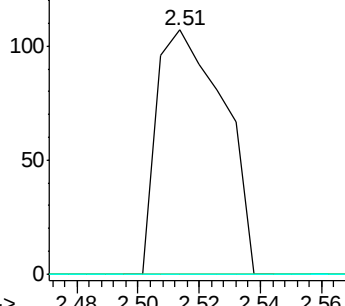
141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.638 ug/l

RT: 3.09 min Scan# 411

Delta R.T. 0.02 min

Lab File: VX001132.D

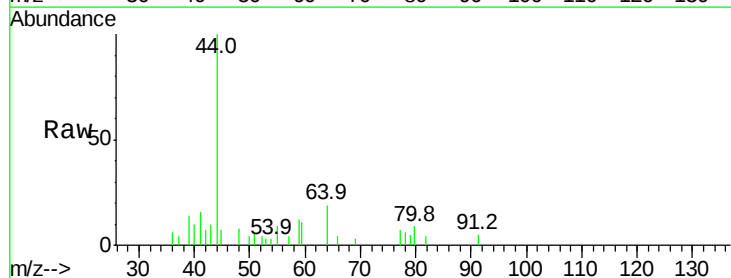
Acq: 25 Apr 2018 20:46

Tgt Ion: 59 Resp: 714

Ion Ratio Lower Upper

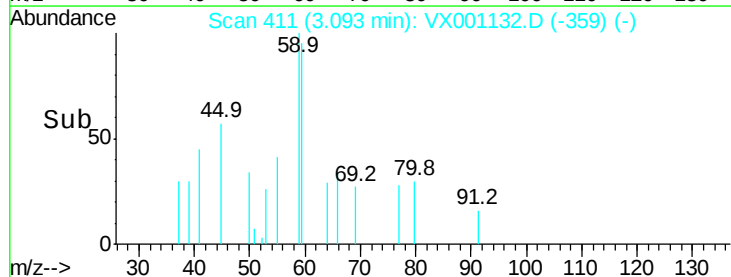
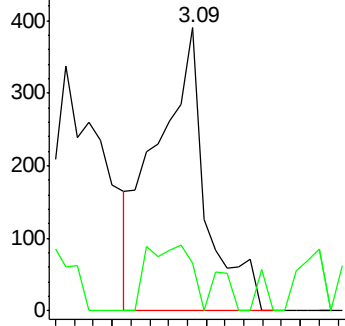
59 100

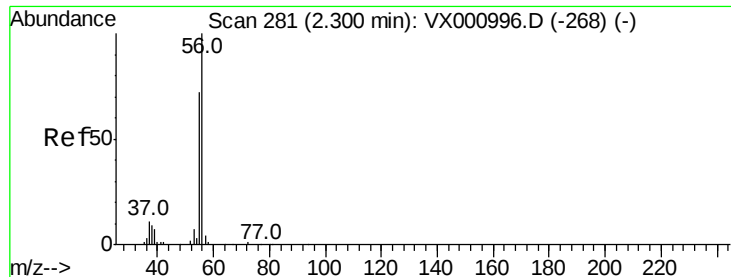
57 20.7 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 12.025 ug/l

RT: 2.32 min Scan# 284

Delta R.T. 0.02 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

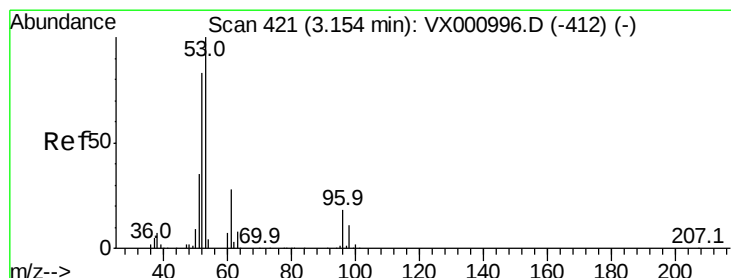
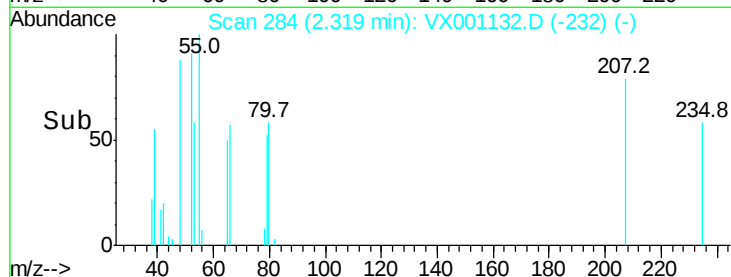
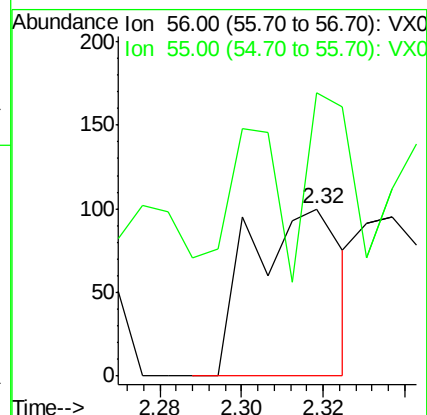
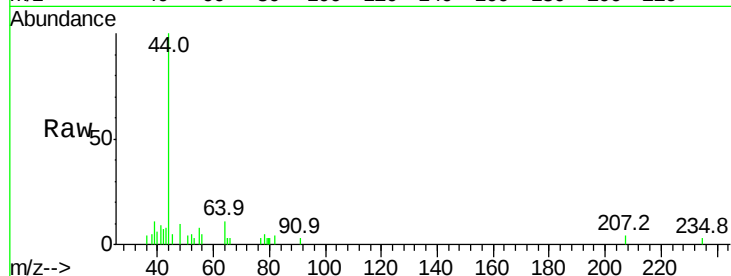
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 72.3 57.4 86.2



#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.18 min Scan# 426

Delta R.T. 0.03 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

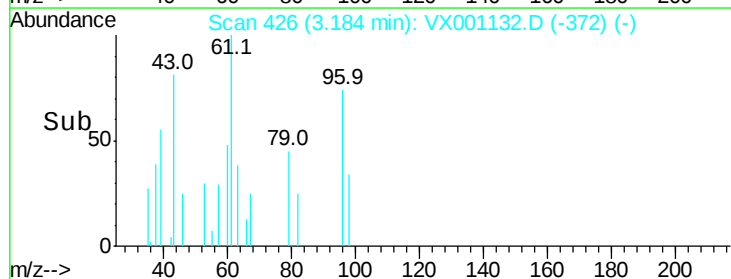
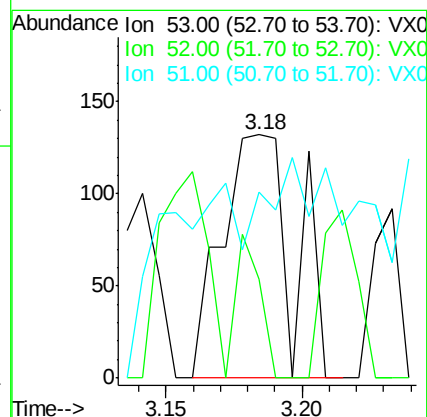
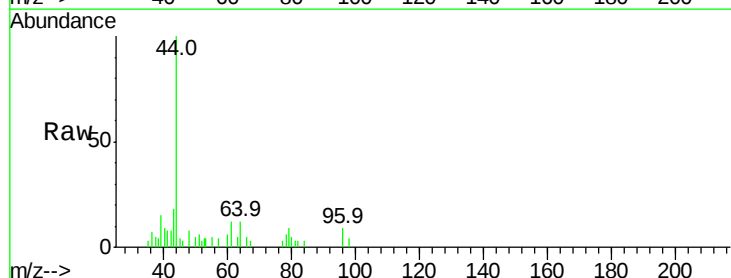
Tgt Ion: 53 Resp: 240

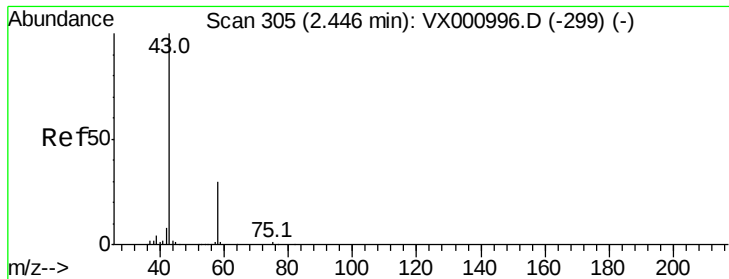
Ion Ratio Lower Upper

53 100

52 20.0 66.4 99.6#

51 89.2 29.0 43.6#





#16

Acetone

Concen: 1.539 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

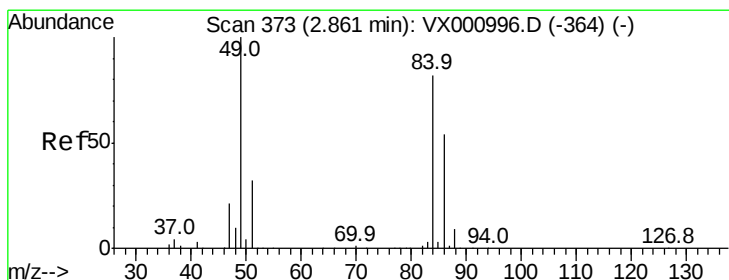
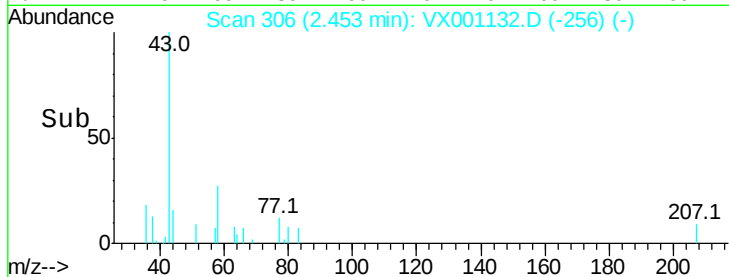
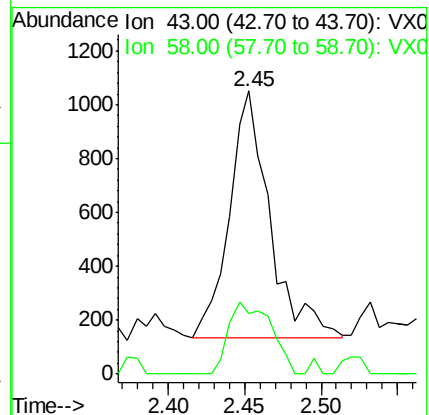
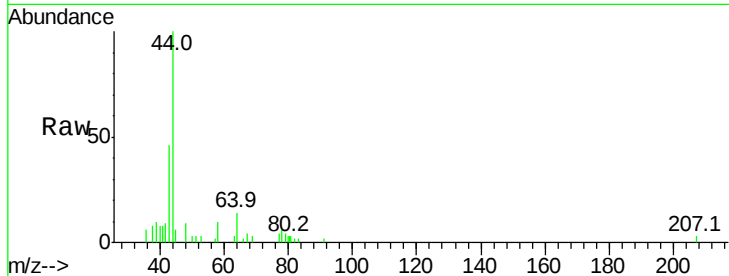
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1675

Ion Ratio Lower Upper

43 100

58 24.4 23.7 35.5



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Tgt Ion: 84 Resp: 209

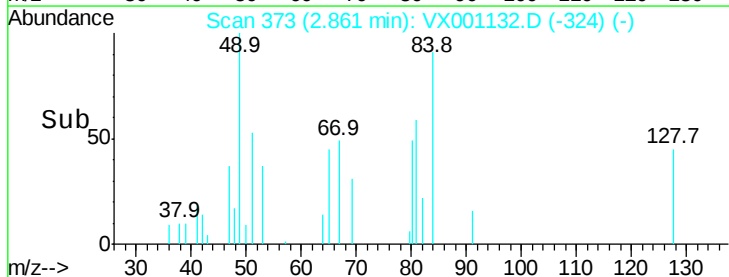
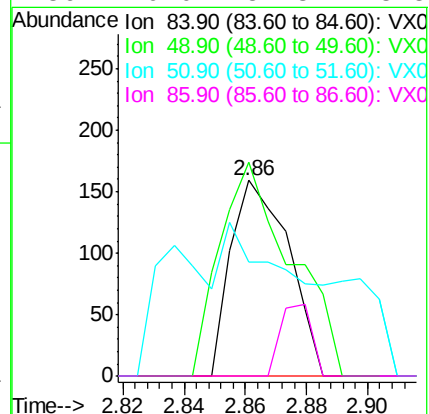
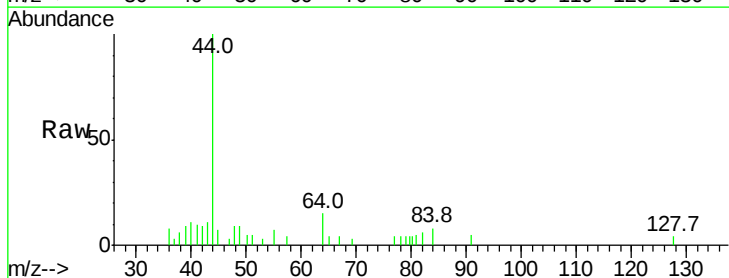
Ion Ratio Lower Upper

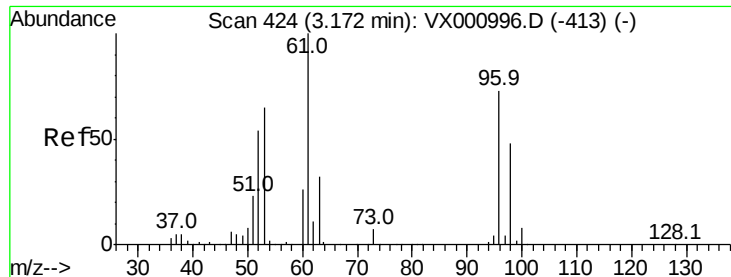
84 100

49 109.4 97.1 145.7

51 10.1 30.8 46.2#

86 0.0 52.3 78.5#





#21

trans-1,2-Dichloroethene

Concen: 0.258 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

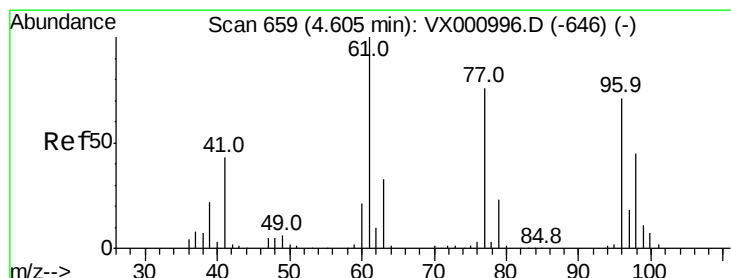
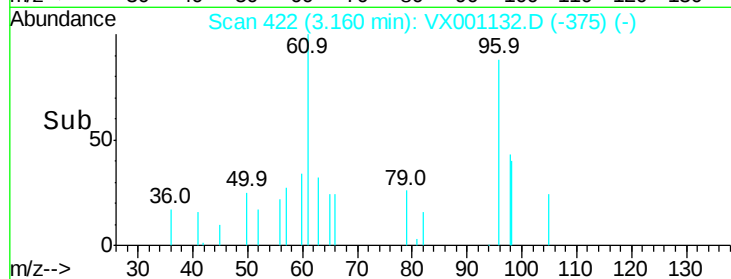
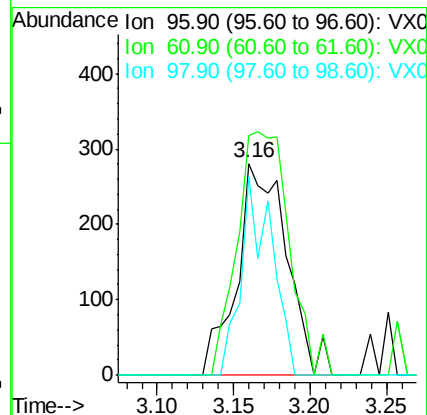
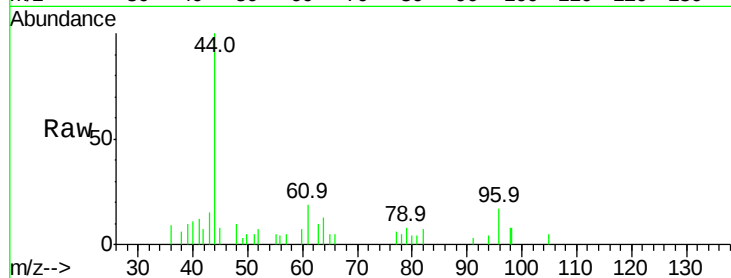
Tot Ion: 96 Resp: 639

Ion Ratio Lower Upper

96 100

61 113.2 109.4 164.2

98 93.6 52.6 78.8#



#27

cis-1,2-Dichloroethene

Concen: 6.379 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

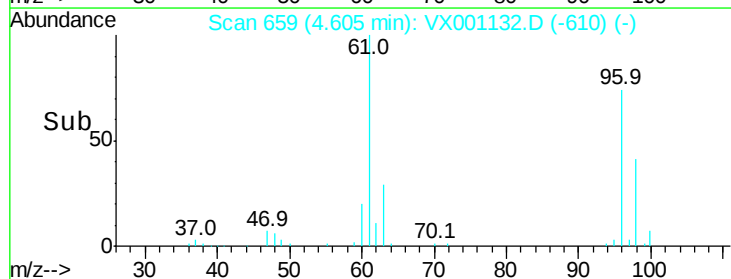
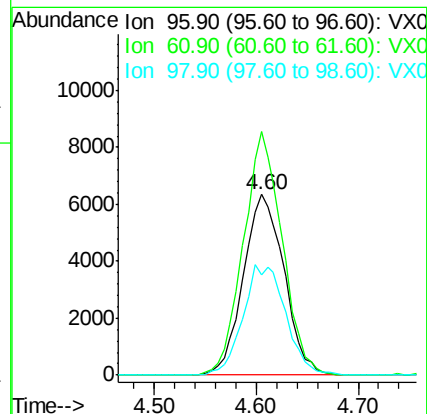
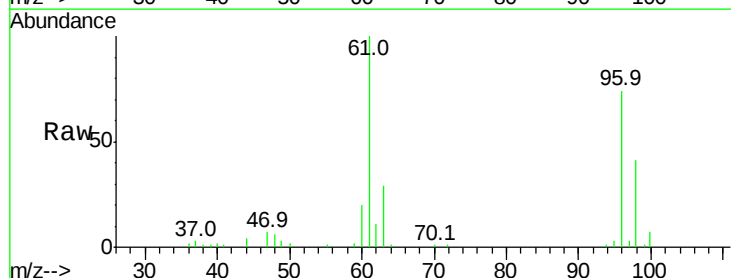
Tgt Ion: 96 Resp: 17573

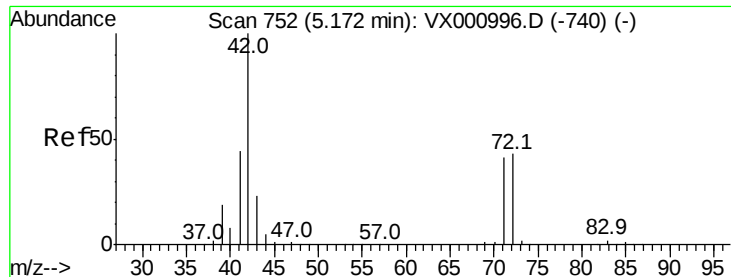
Ion Ratio Lower Upper

96 100

61 128.6 0.0 297.0

98 63.7 0.0 130.0





#29

Tetrahydrofuran

Concen: 0.906 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

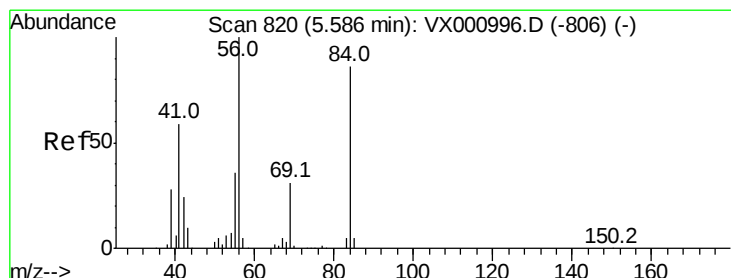
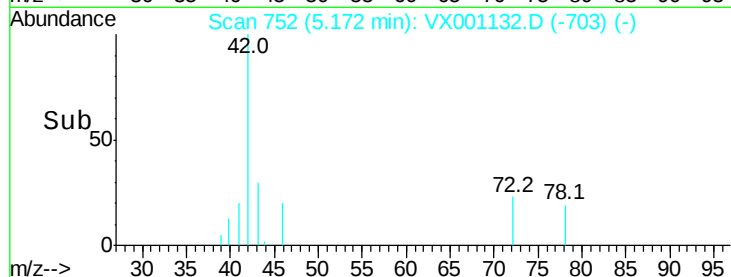
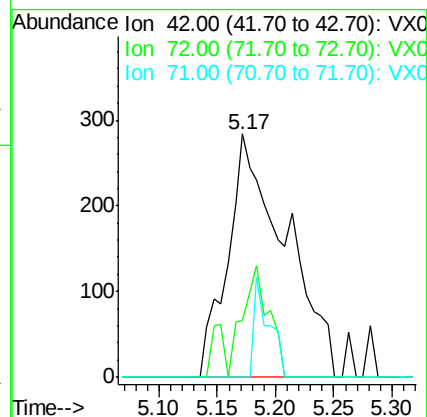
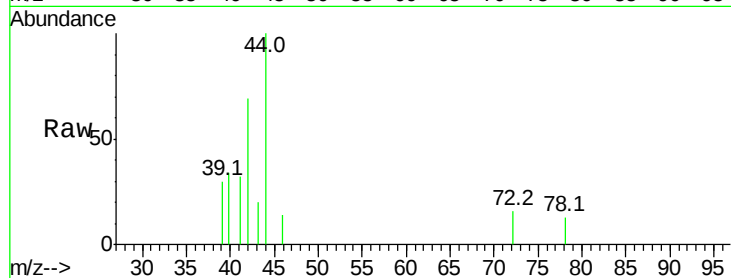
Tot Ion: 42 Resp: 973

Ion Ratio Lower Upper

42 100

72 21.1 34.6 52.0#

71 10.9 32.6 49.0#



#31

Cyclohexane

Concen: 1.016 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.08 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

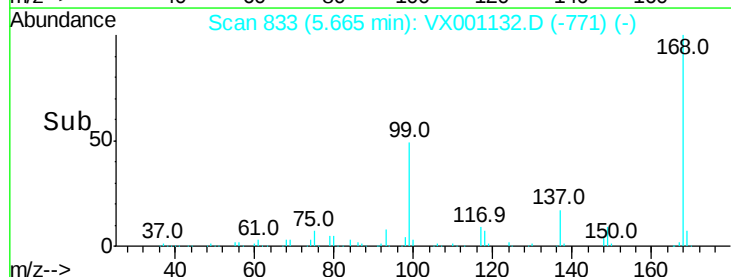
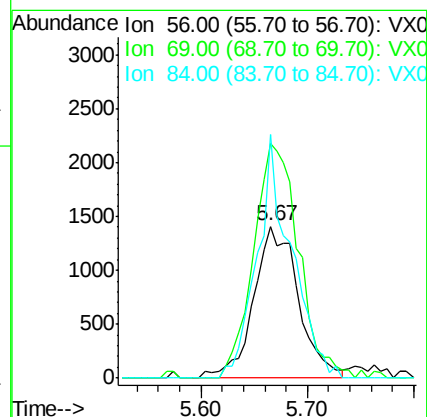
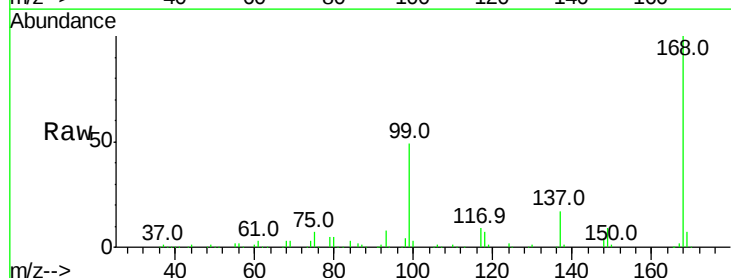
Tgt Ion: 56 Resp: 4141

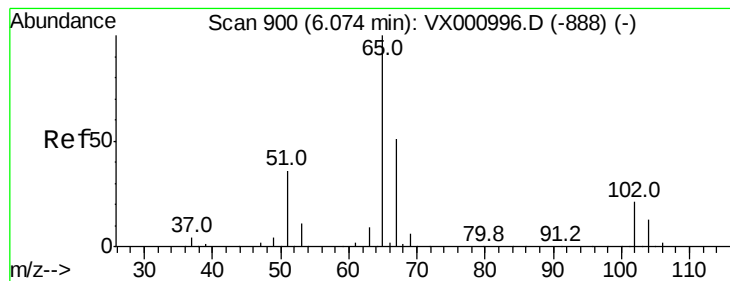
Ion Ratio Lower Upper

56 100

69 155.0 24.6 36.8#

84 160.7 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 55.719 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

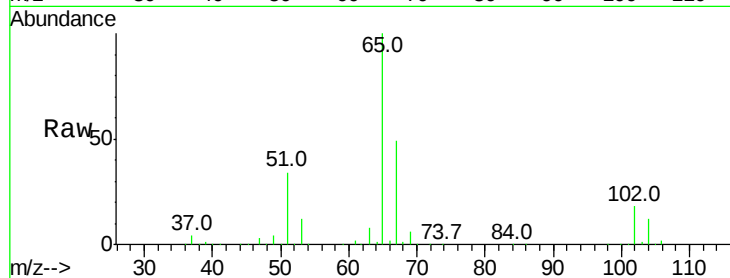
ClientSampleId :

Tot Ion: 65 Resp: 161056

Ion Ratio Lower Upper

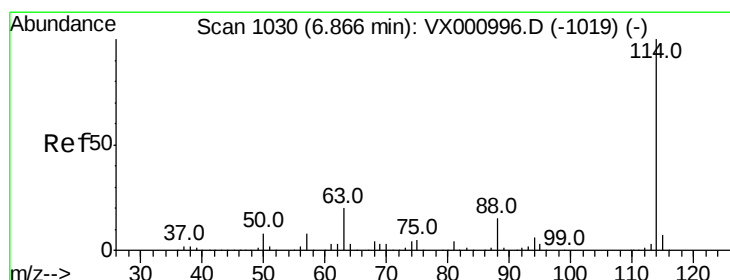
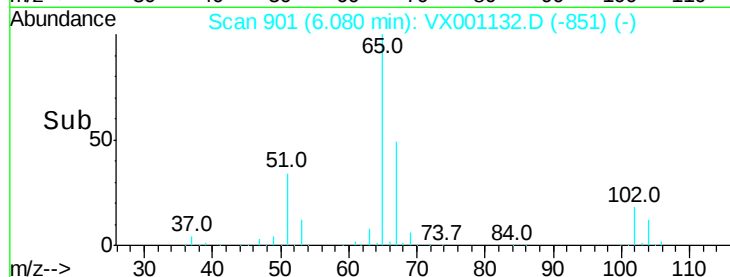
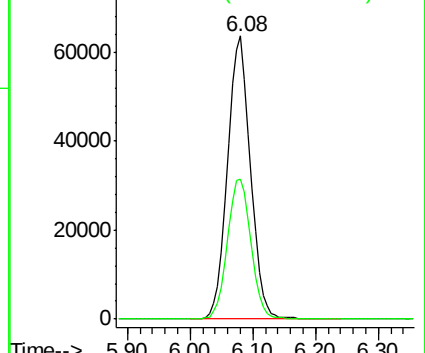
65 100

67 50.8 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: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

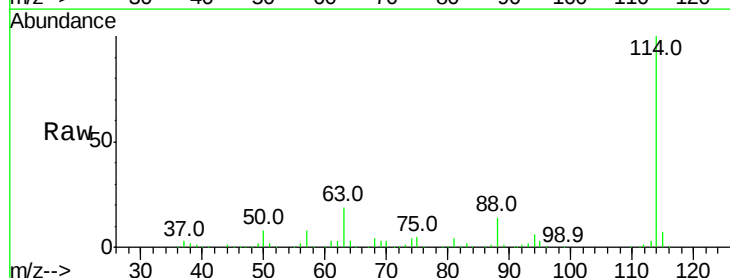
Tgt Ion: 114 Resp: 313850

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

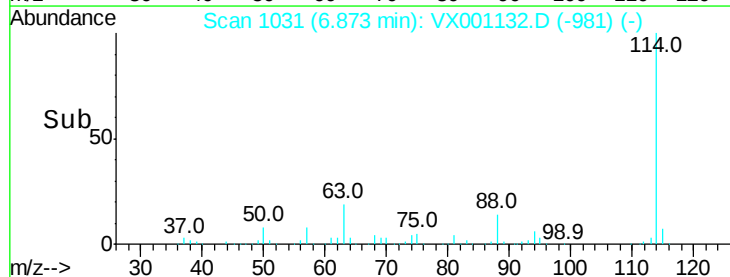
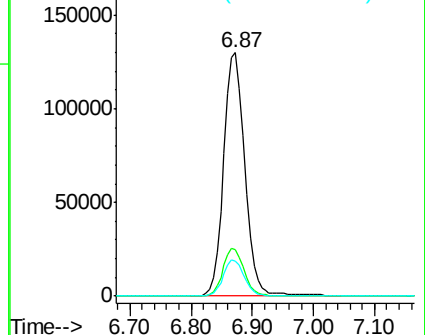
88 14.4 0.0 29.8

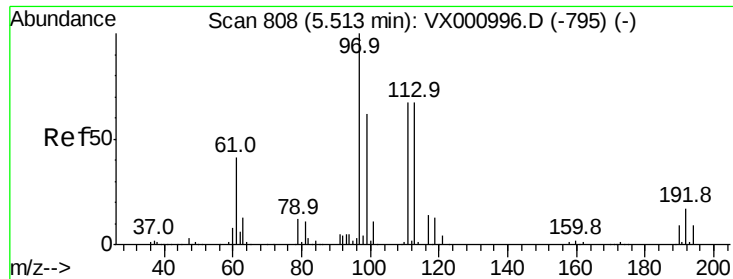


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.877 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampled :

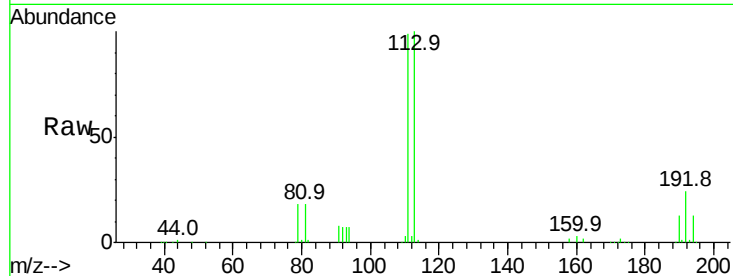
Tot Ion:113 Resp: 124153

Ion Ratio Lower Upper

113 100

111 99.9 81.4 122.2

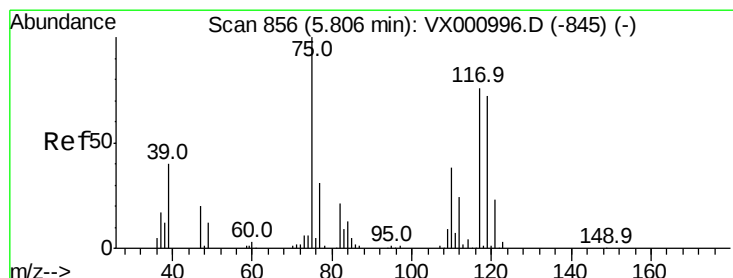
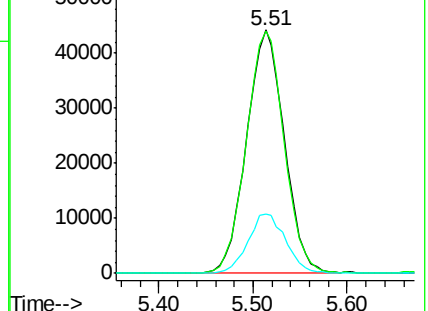
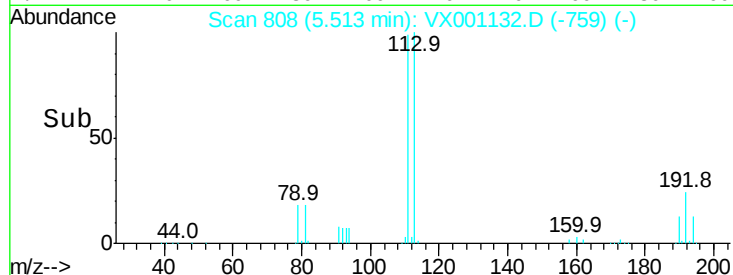
192 24.4 20.4 30.6



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: 3.746 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

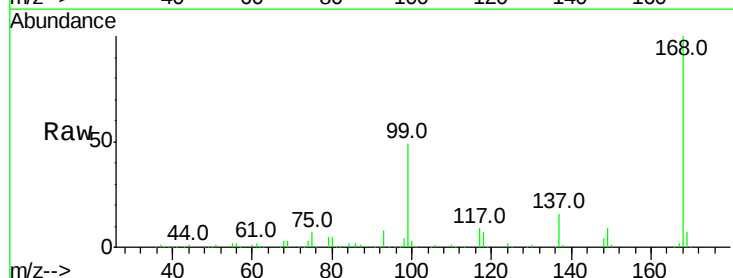
Tgt Ion: 75 Resp: 13816

Ion Ratio Lower Upper

75 100

110 10.1 18.7 56.1#

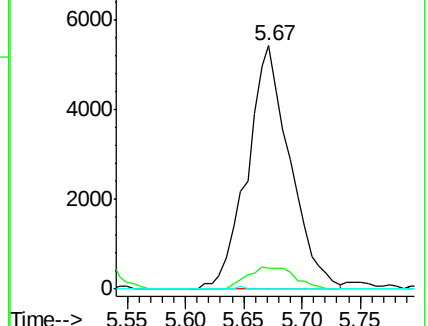
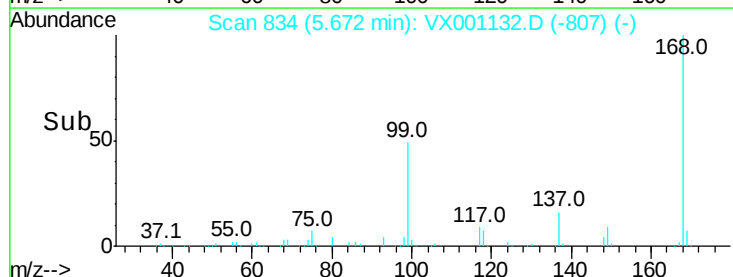
77 0.0 25.0 37.4#

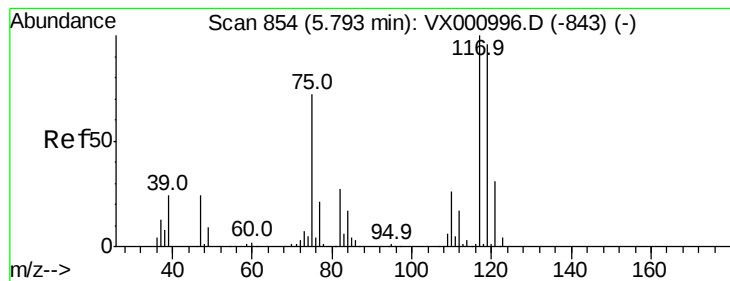


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.208 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

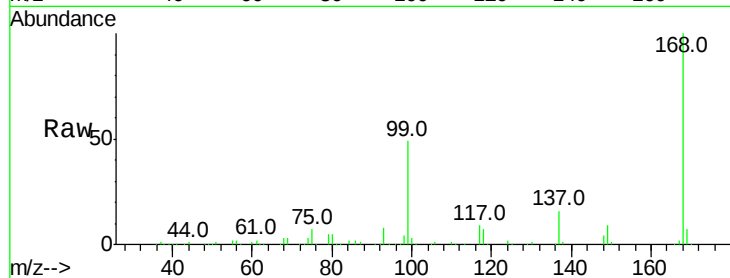
Tot Ion:117 Resp: 19451

Ion Ratio Lower Upper

117 100

119 4.2 76.5 114.7#

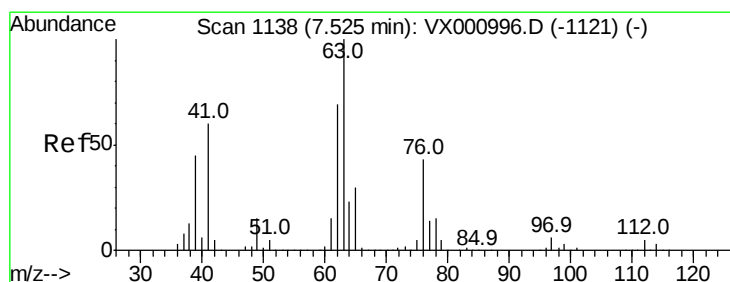
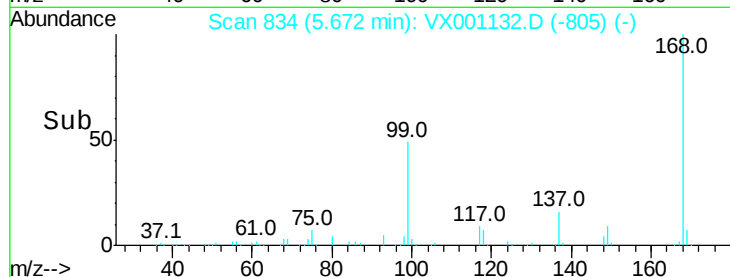
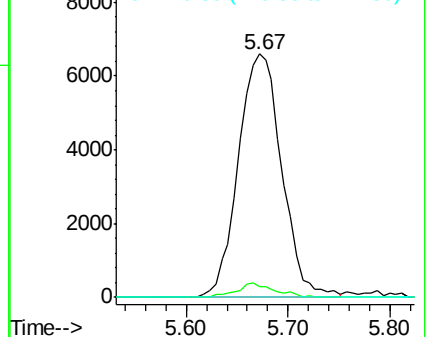
121 0.0 24.5 36.7#



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



#45

1,2-Dichloropropane

Concen: 0.411 ug/l

RT: 7.52 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VX001132.D

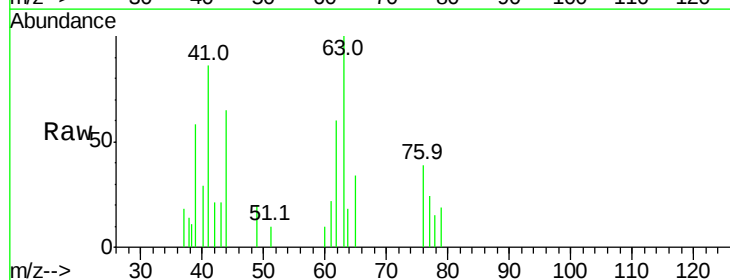
Acq: 25 Apr 2018 20:46

Tgt Ion: 63 Resp: 1059

Ion Ratio Lower Upper

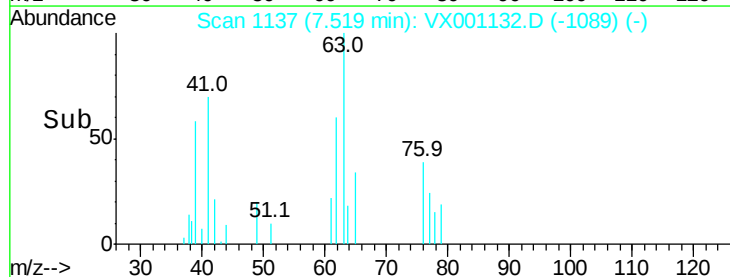
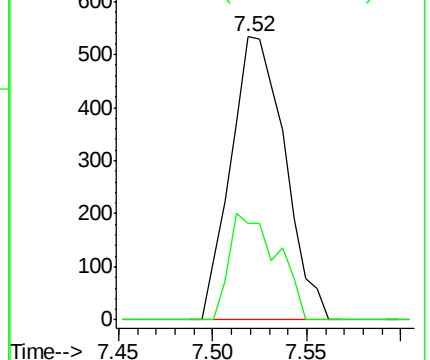
63 100

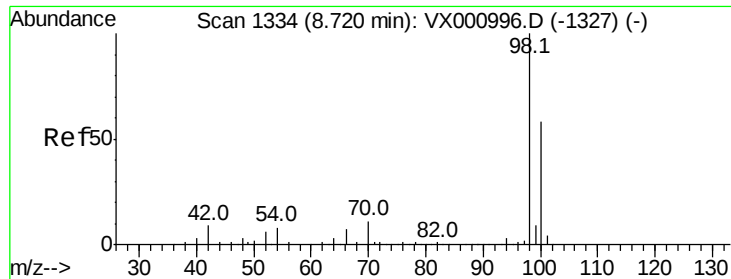
65 34.0 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

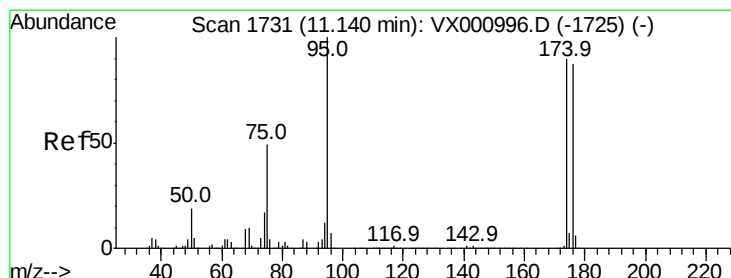
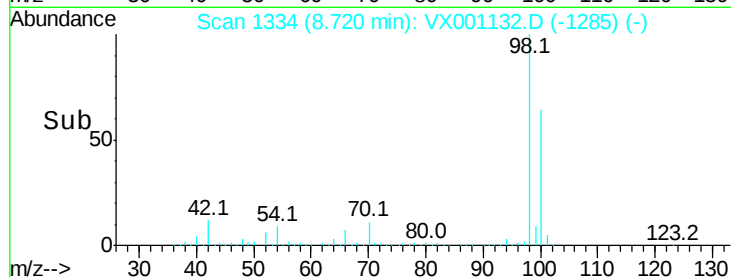
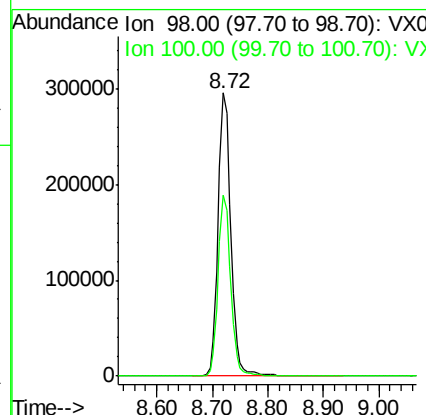
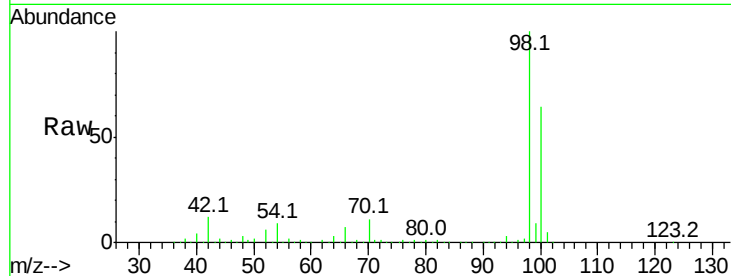




#50
Toluene-d8
Concen: 53.594 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001132.D
Acq: 25 Apr 2018 20:46

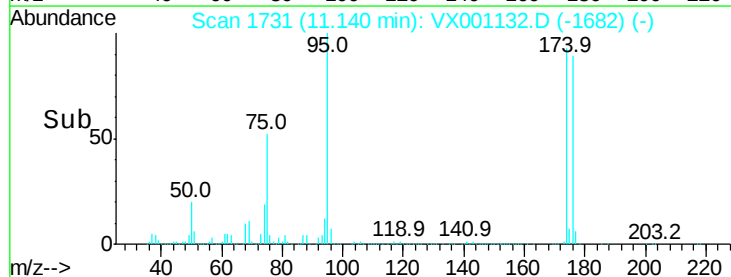
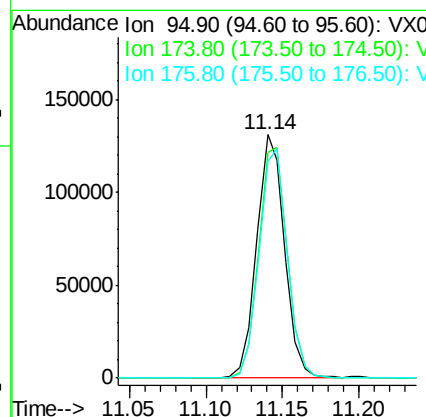
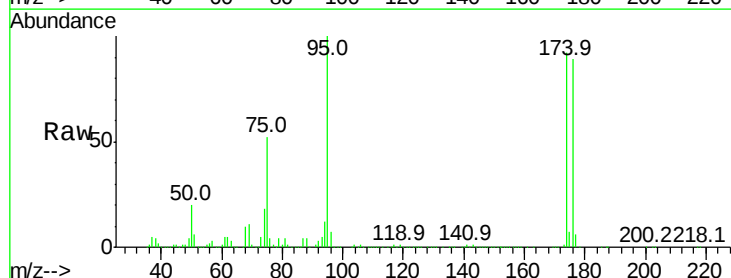
Instrument :
MSVOA_X
ClientSampleId :

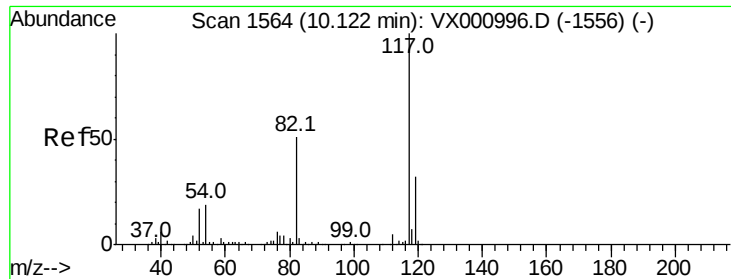
Tot Ion: 98 Resp: 474267
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 44.456 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001132.D
Acq: 25 Apr 2018 20:46

Tgt Ion: 95 Resp: 165103
Ion Ratio Lower Upper
95 100
174 98.8 0.0 198.4
176 96.0 0.0 192.0

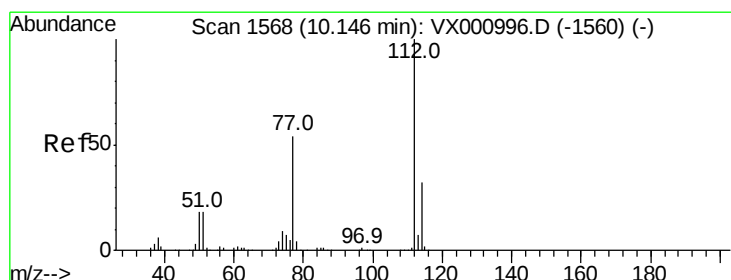
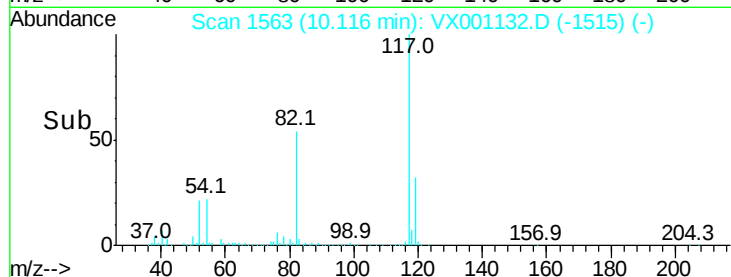
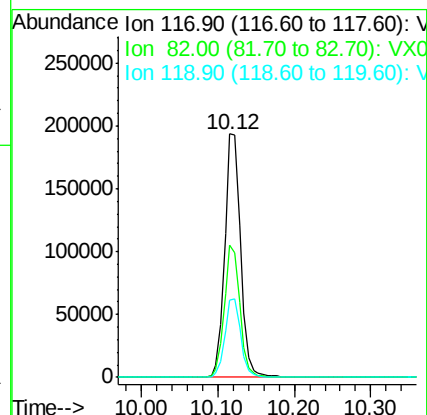
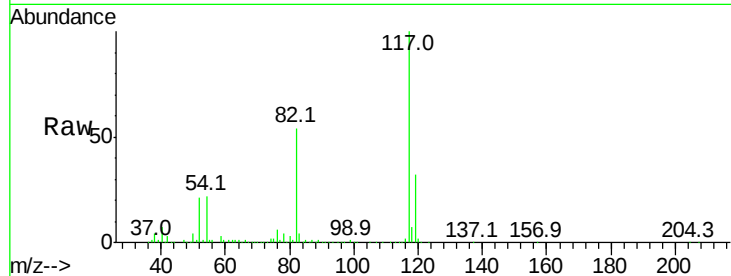




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001132.D
Acq: 25 Apr 2018 20:46

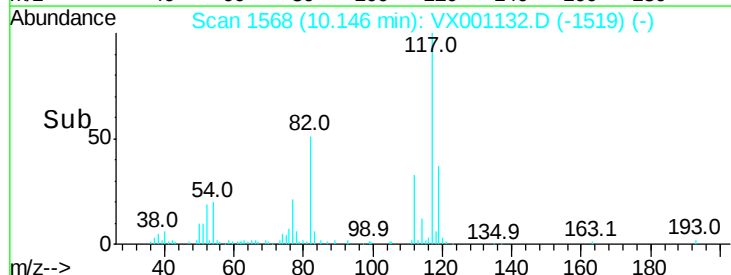
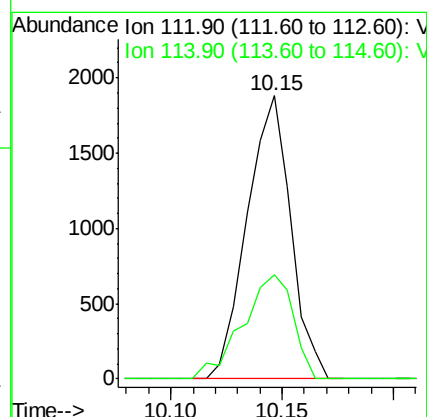
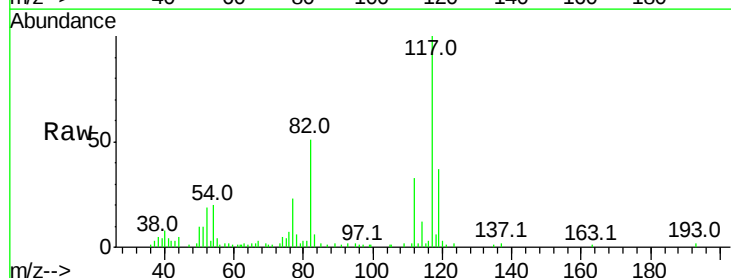
Instrument :
MSVOA_X
ClientSampleId :

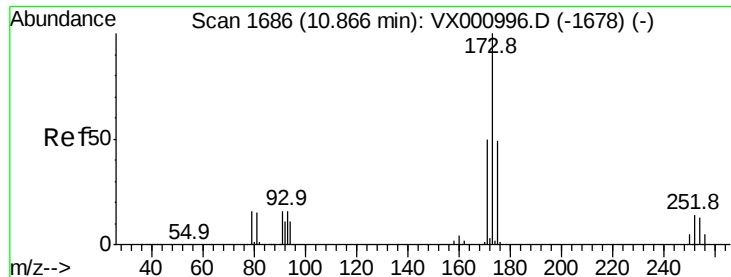
Tot Ion:117 Resp: 278196
Ion Ratio Lower Upper
117 100
82 54.4 40.6 60.8
119 31.7 26.0 39.0



#65
Chlorobenzene
Concen: 0.347 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001132.D
Acq: 25 Apr 2018 20:46

Tgt Ion:112 Resp: 2573
Ion Ratio Lower Upper
112 100
114 36.8 25.5 38.3





#71

Bromoform

Concen: 2.746 ug/l

RT: 10.91 min Scan# 1693

Delta R.T. 0.04 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

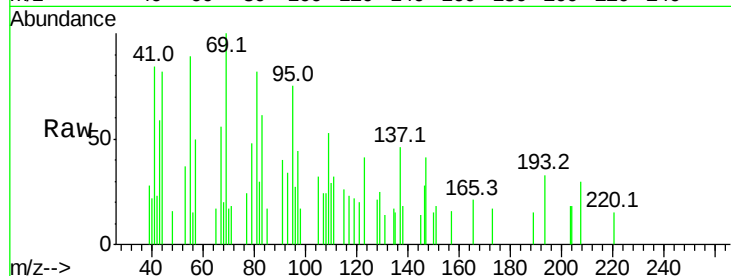
Tot Ion:173 Resp: 49

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.3#

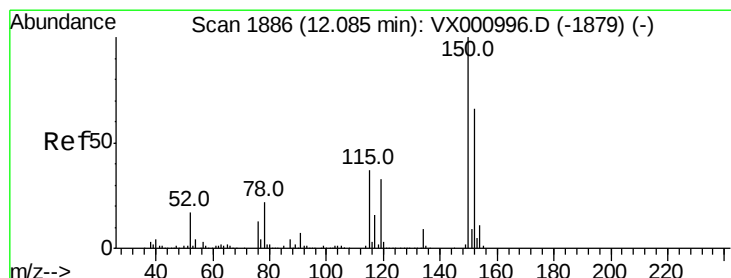
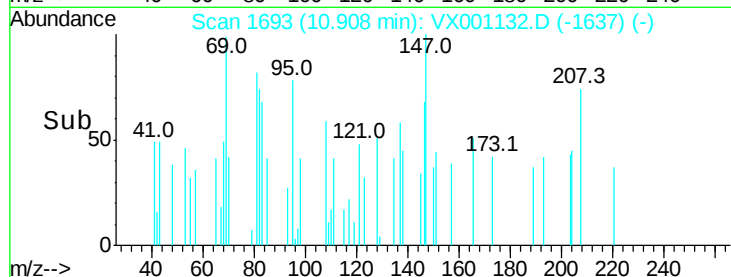
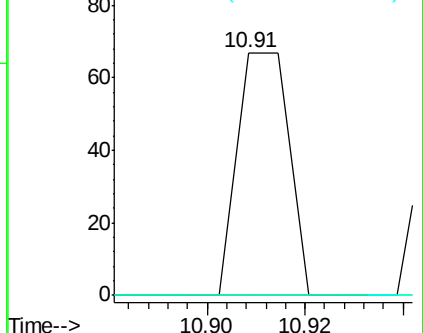
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

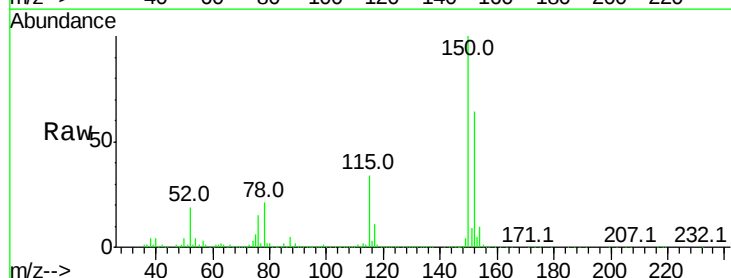
Tgt Ion:152 Resp: 152084

Ion Ratio Lower Upper

152 100

115 53.9 38.2 114.6

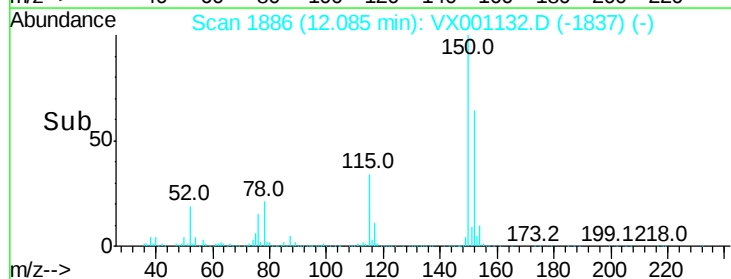
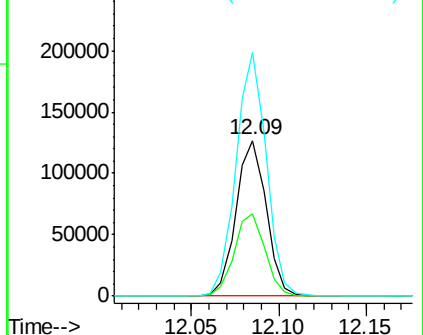
150 156.9 0.0 350.4

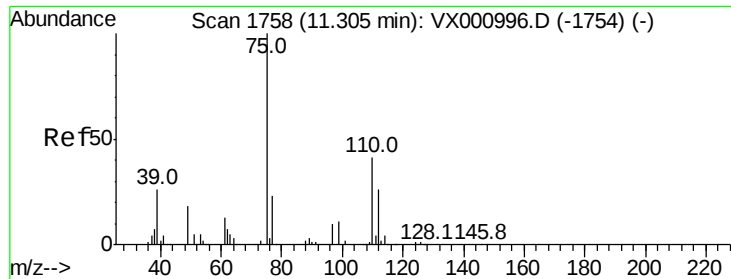


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 32.238 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

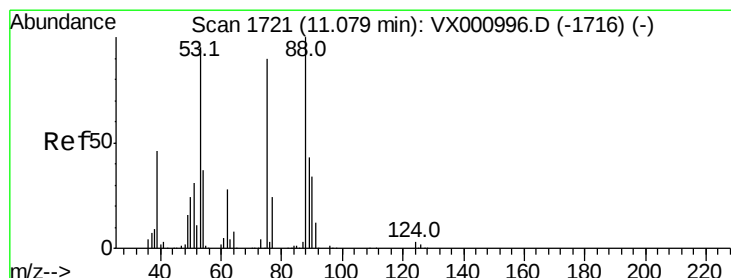
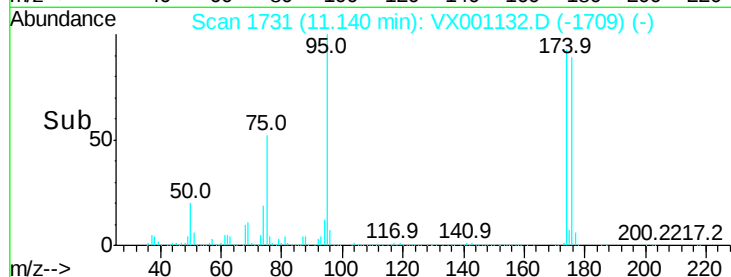
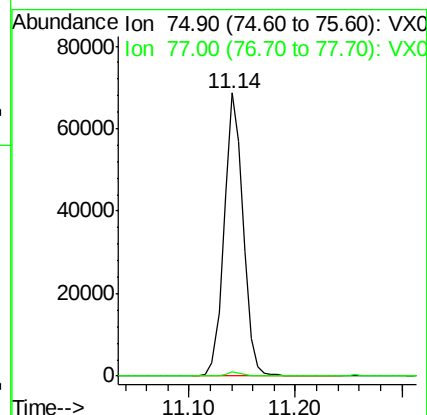
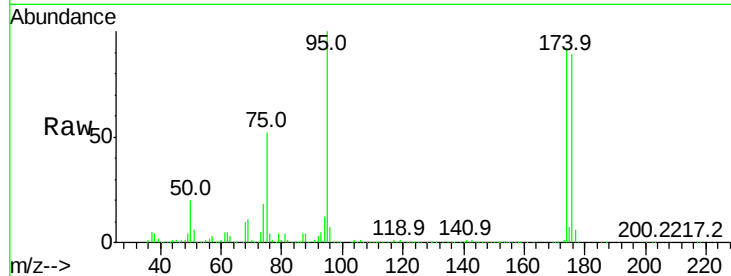
ClientSampleId :

Tot Ion: 75 Resp: 85064

Ion Ratio Lower Upper

75 100

77 1.3 19.6 58.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 95.754 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

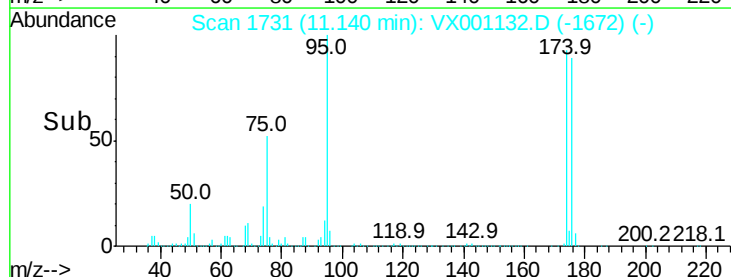
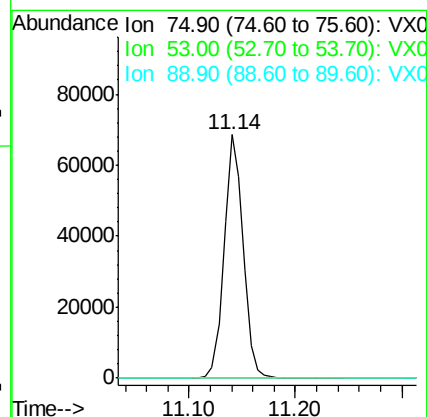
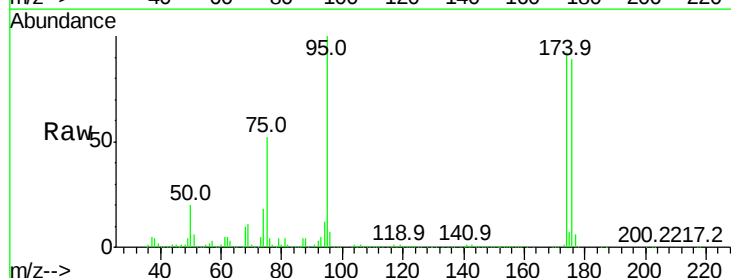
Tgt Ion: 75 Resp: 85064

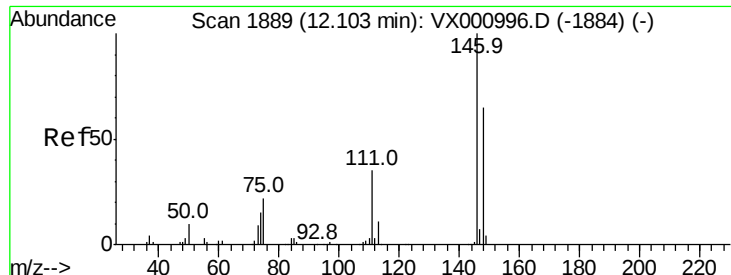
Ion Ratio Lower Upper

75 100

53 0.1 83.4 125.2#

89 0.0 39.7 59.5#





#88

1,4-Dichlorobenzene

Concen: 0.836 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

Instrument :

MSVOA_X

ClientSampled :

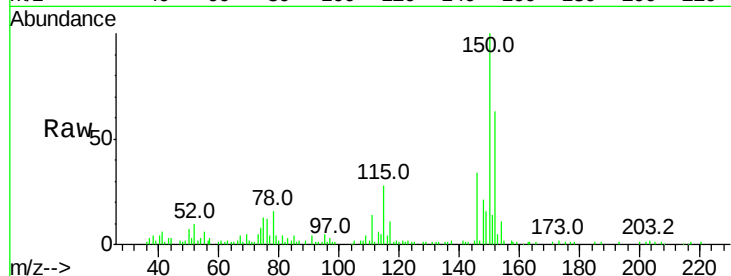
Tot Ion:146 Resp: 4637

Ion Ratio Lower Upper

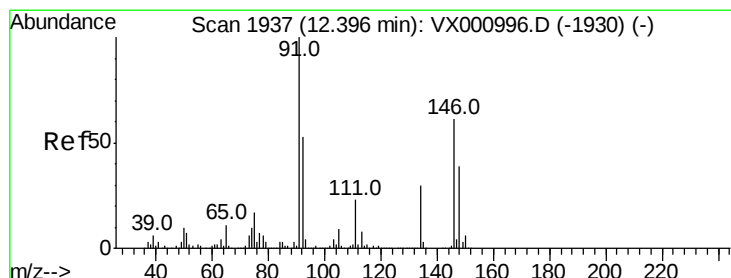
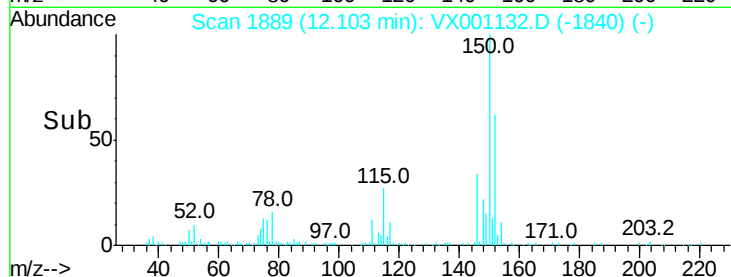
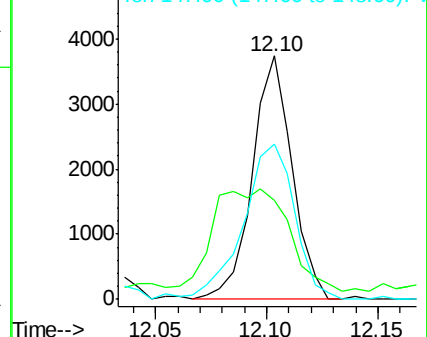
146 100

111 80.7 18.0 54.0#

148 82.3 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.713 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001132.D

Acq: 25 Apr 2018 20:46

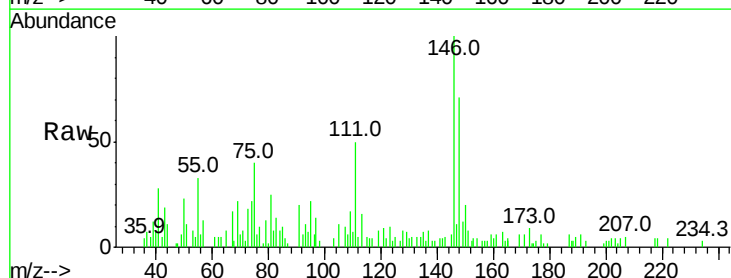
Tgt Ion:146 Resp: 3731

Ion Ratio Lower Upper

146 100

111 35.1 18.6 56.0

148 63.4 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

