

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012419\
 Data File : VX007199.D
 Acq On : 24 Jan 2019 13:15
 Operator : JC/SP
 Sample : K1227-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8TB04-190122

Quant Time: Jan 25 00:02:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	540755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	826482	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	771343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	366400	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	289703	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	5.51	113	263755	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	8.71	98	988167	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	11.13	95	341976	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	

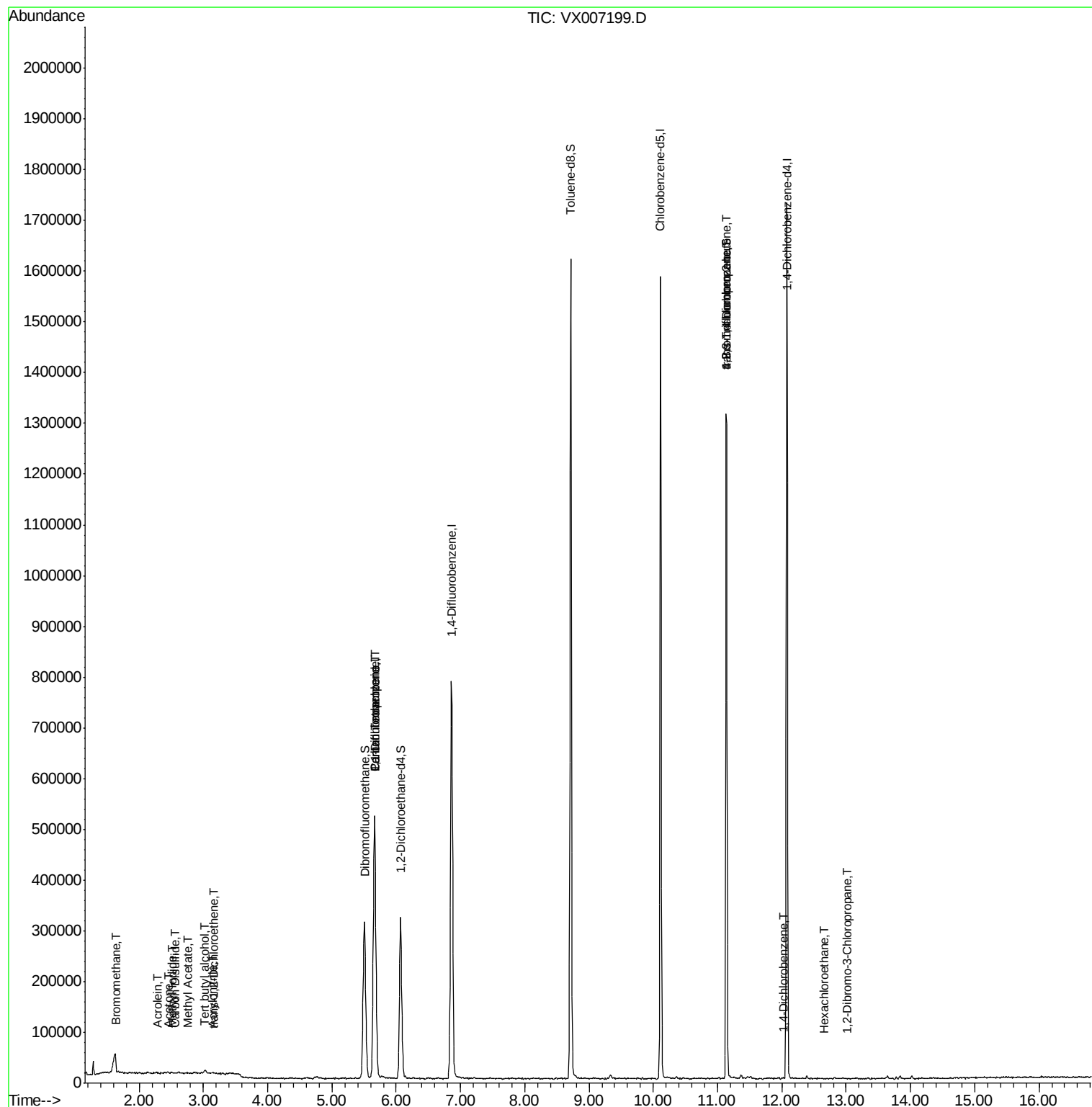
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1376	0.232	ug/l	82
10) Methyl Iodide	2.51	142	2363	0.326	ug/l	98
11) Tert butyl alcohol	3.02	59	4824	3.619	ug/l #	72
13) Acrolein	2.28	56	374	3.727	ug/l #	68
15) Acrylonitrile	3.15	53	1012	0.331	ug/l #	91
16) Acetone	2.45	43	2151	0.770	ug/l #	74
17) Carbon Disulfide	2.57	76	2601	0.203	ug/l #	77
18) Methyl Acetate	2.77	43	1874	0.232	ug/l #	52
20) Methylene Chloride	2.86	84	1505	Below Cal	#	64
21) trans-1,2-Dichloroethene	3.17	96	1151	0.208	ug/l #	76
36) 1,1-Dichloropropene	5.67	75	35192	4.898	ug/l #	49
38) Carbon Tetrachloride	5.67	117	49482	6.844	ug/l #	14
49) 1,4-Dioxane	7.76	88	213	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.13	75	163060	21.961	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	163060	65.044	ug/l #	10
88) 1,4-Dichlorobenzene	12.02	146	1067	0.232	ug/l	89
90) Hexachloroethane	12.66	117	48	2.921	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	13.01	75	445	0.274	ug/l #	16

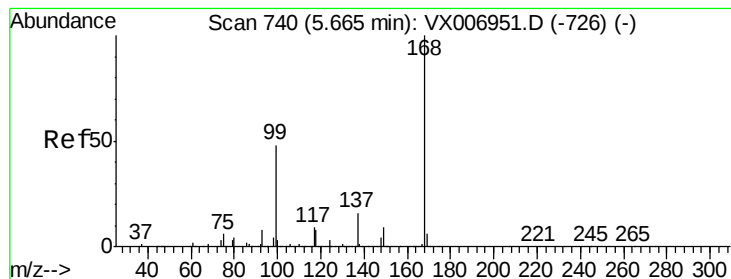
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

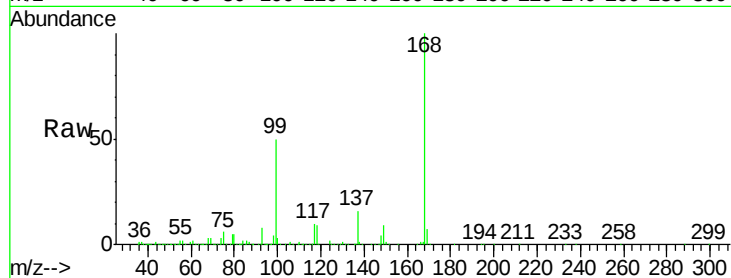
S8TB04-190122

Tot Ion:168 Resp: 540755

Ion Ratio Lower Upper

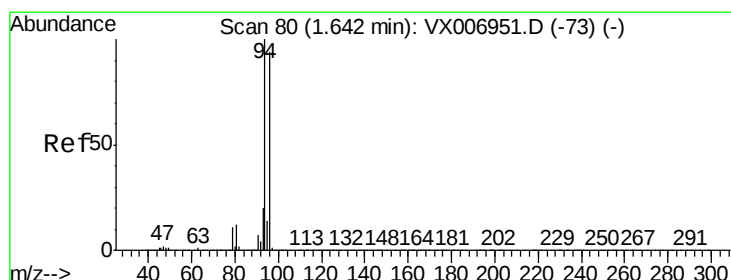
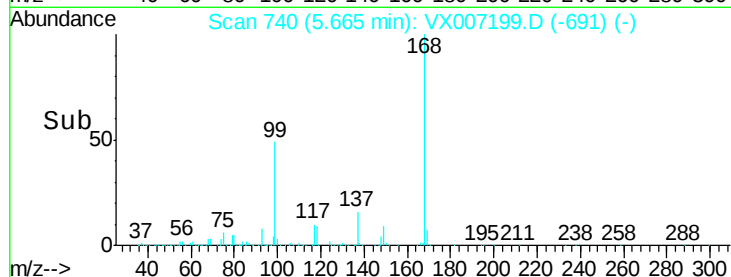
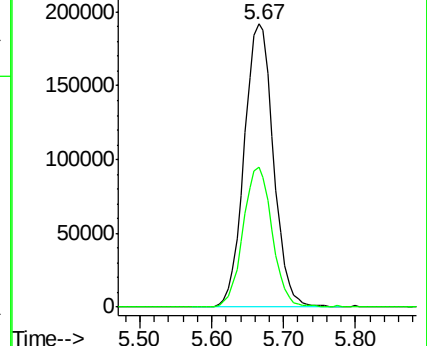
168 100

99 49.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.232 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007199.D

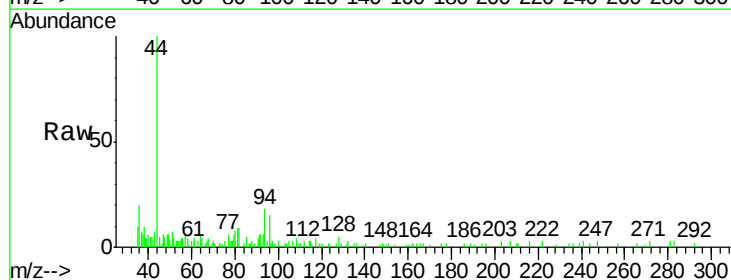
Acq: 24 Jan 2019 13:15

Tgt Ion: 94 Resp: 1376

Ion Ratio Lower Upper

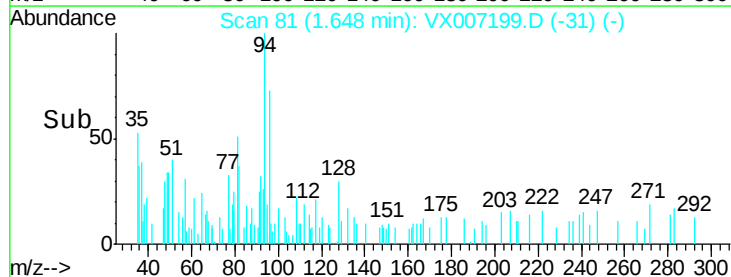
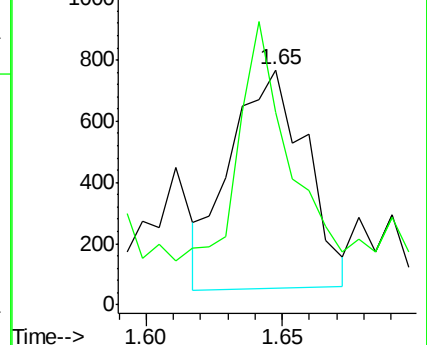
94 100

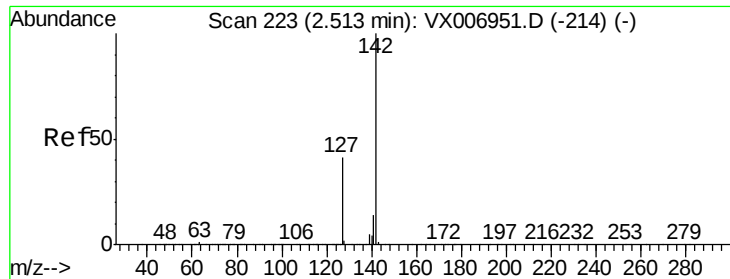
96 74.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

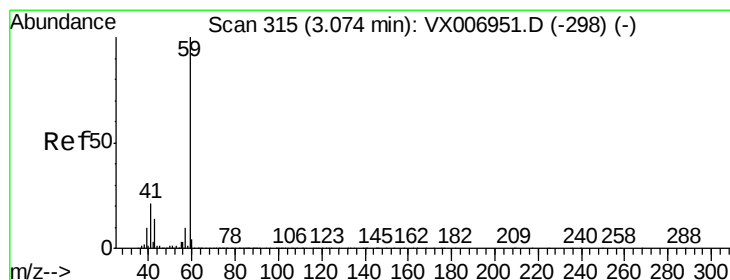
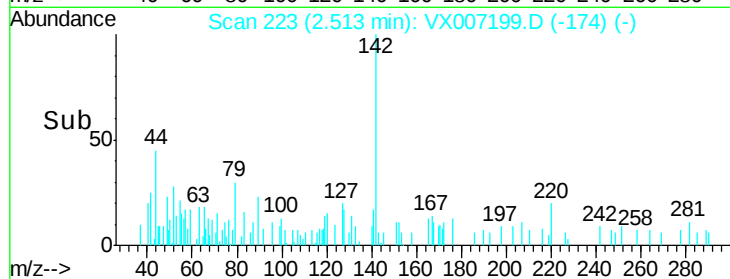
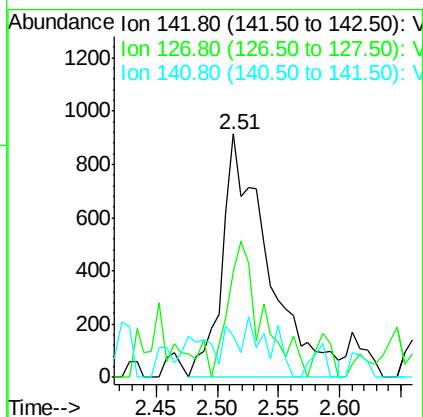
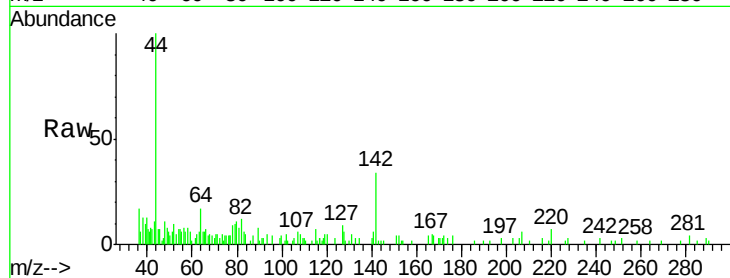




#10
Methvl Iodide
Concen: 0.326 ug/l
RT: 2.51 min Scan# 223
Delta R.T. -0.00 min
Lab File: VX007199.D
Acq: 24 Jan 2019 13:15

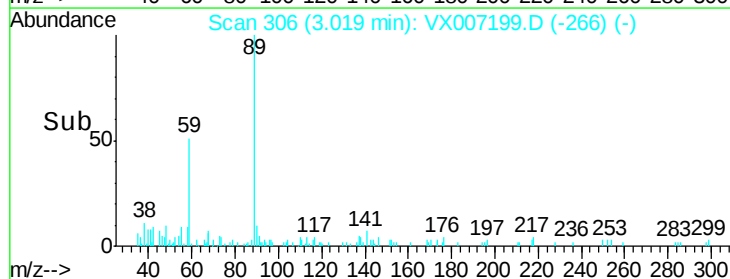
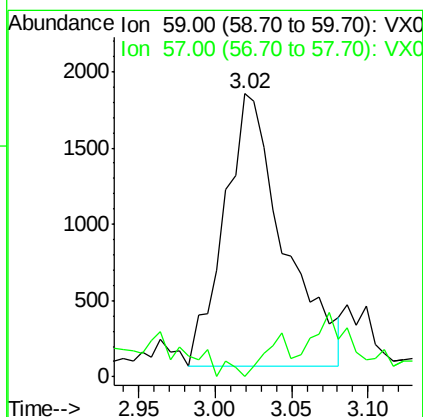
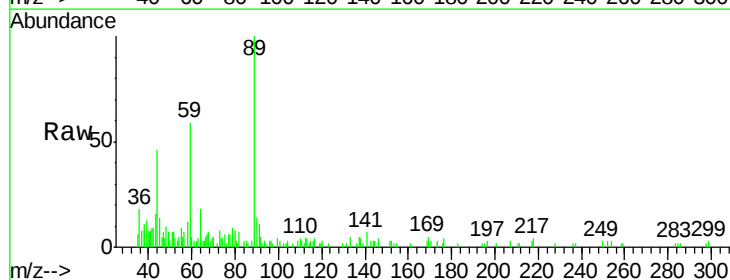
Instrument :
MSVOA_X
ClientSampleId :
S8TB04-190122

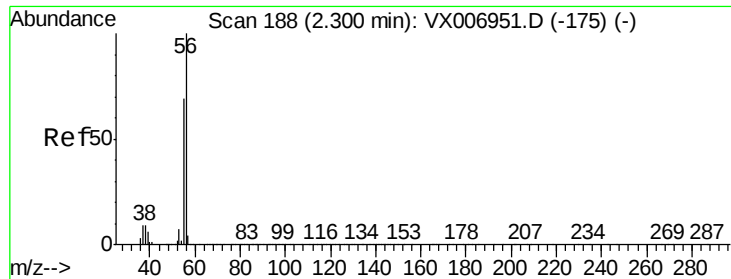
Tot Ion:142 Resp: 2363
Ion Ratio Lower Upper
142 100
127 41.7 33.9 50.9
141 12.9 11.4 17.0



#11
Tert butyl alcohol
Concen: 3.619 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007199.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 59 Resp: 4824
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 3.727 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

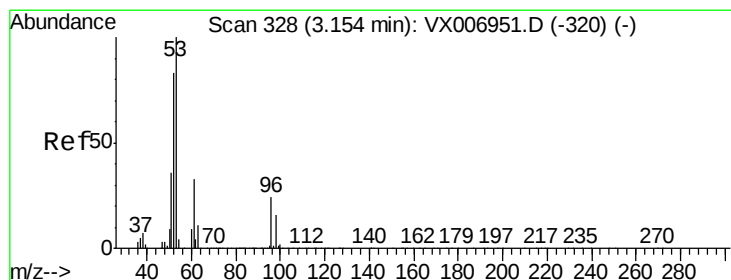
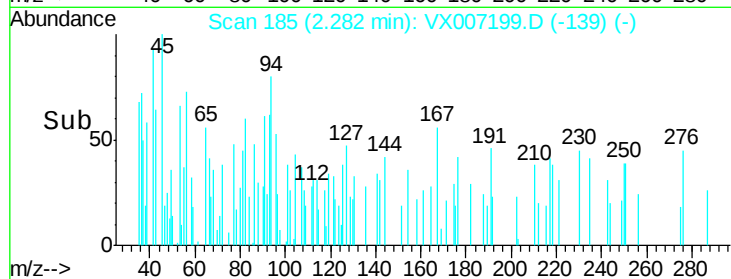
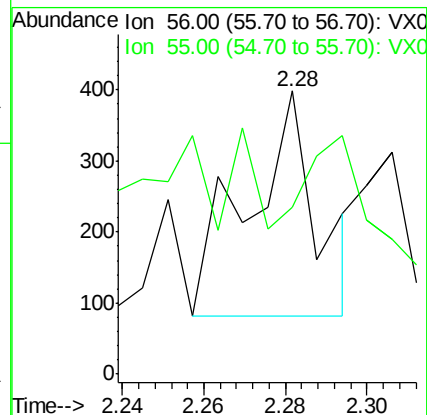
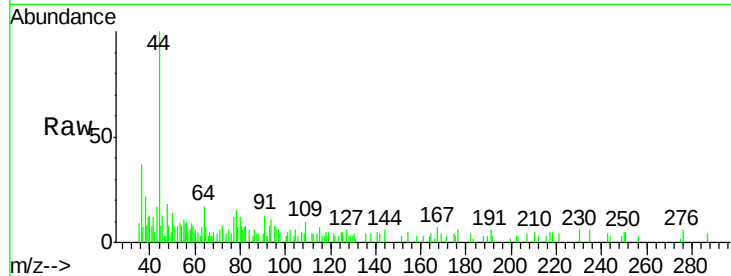
S8TB04-190122

Tot Ion: 56 Resp: 374

Ion Ratio Lower Upper

56 100

55 46.0 58.2 87.4#



#15

Acrylonitrile

Concen: 0.331 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

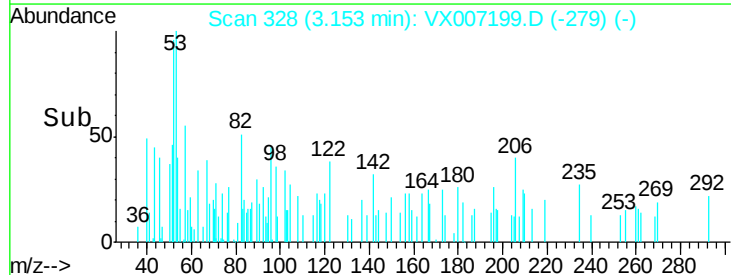
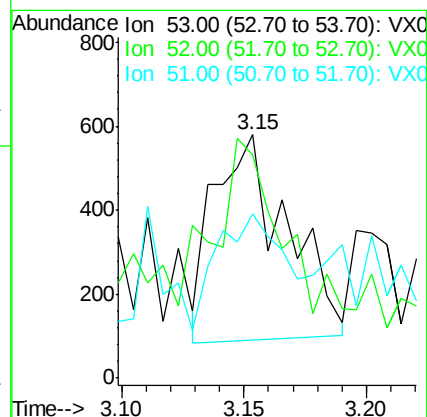
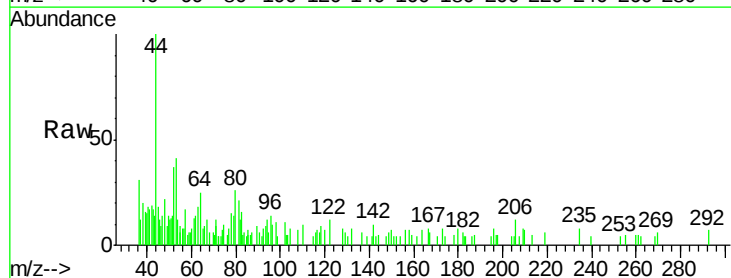
Tgt Ion: 53 Resp: 1012

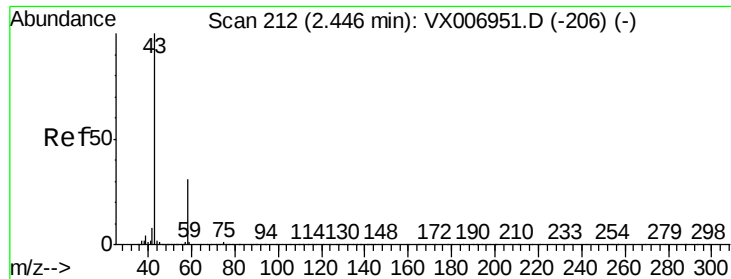
Ion Ratio Lower Upper

53 100

52 81.6 66.0 99.0

51 51.5 28.6 42.8#





#16

Acetone

Concen: 0.770 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

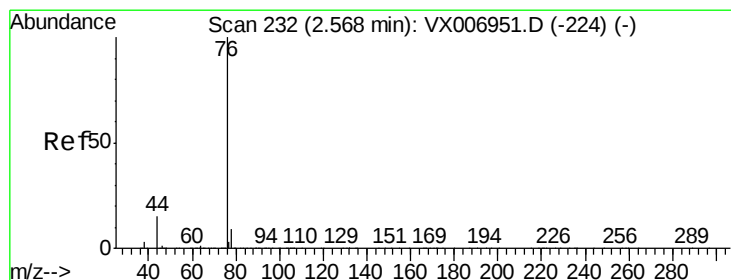
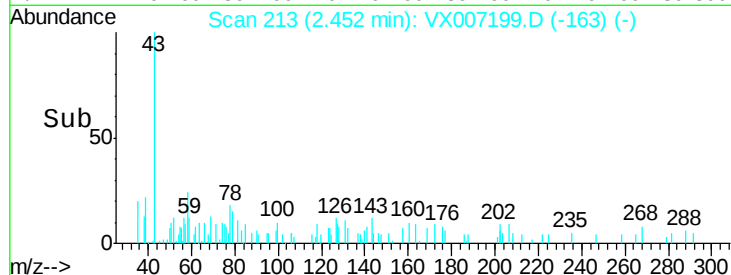
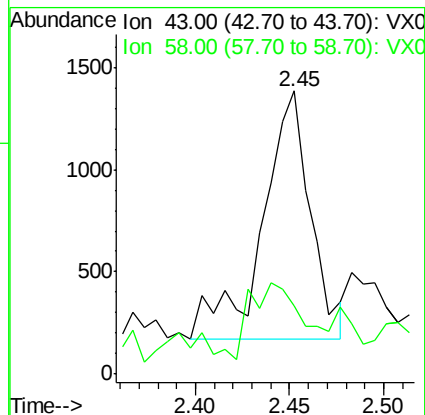
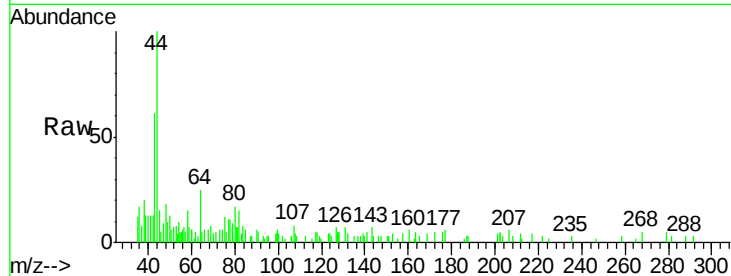
S8TB04-190122

Tot Ion: 43 Resp: 2151

Ion Ratio Lower Upper

43 100

58 17.0 25.0 37.6#



#17

Carbon Disulfide

Concen: 0.203 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX007199.D

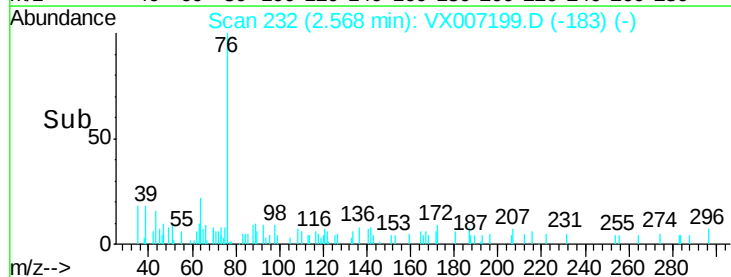
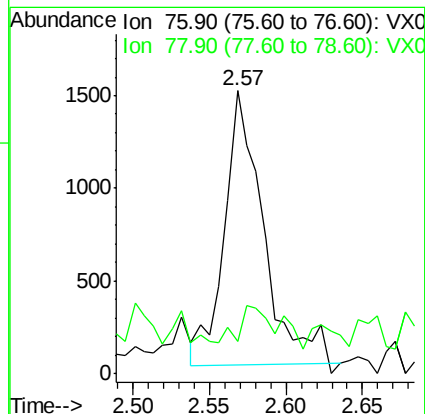
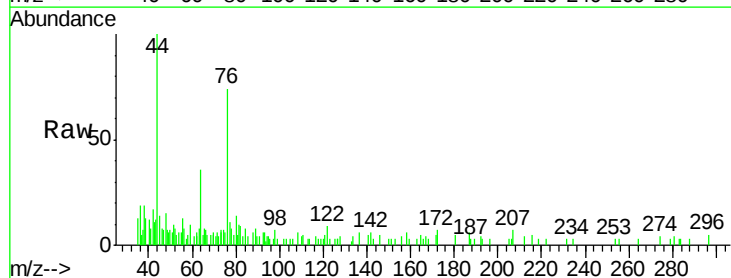
Acq: 24 Jan 2019 13:15

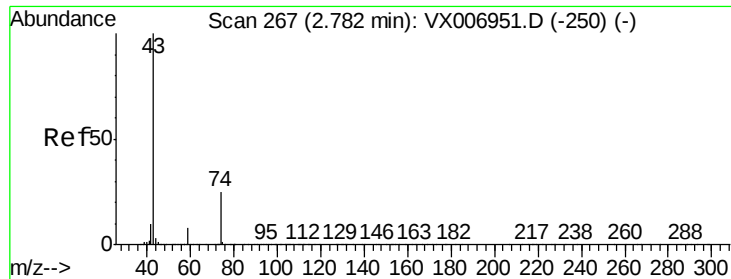
Tgt Ion: 76 Resp: 2601

Ion Ratio Lower Upper

76 100

78 0.7 7.0 10.6#

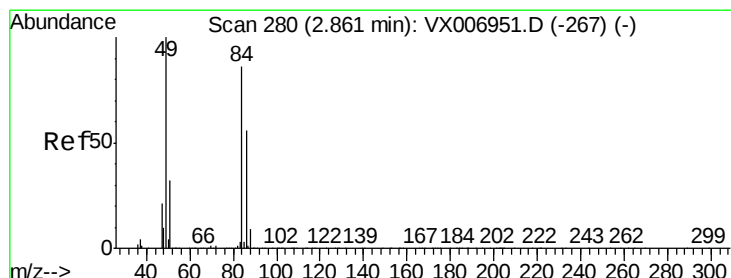
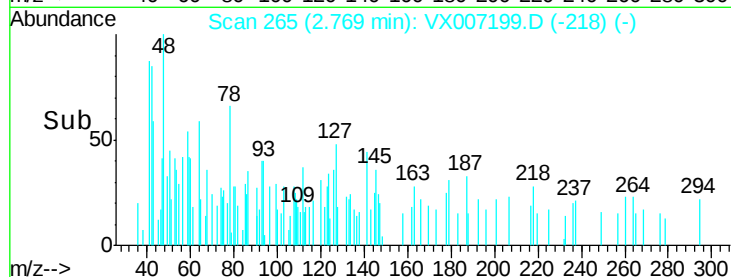
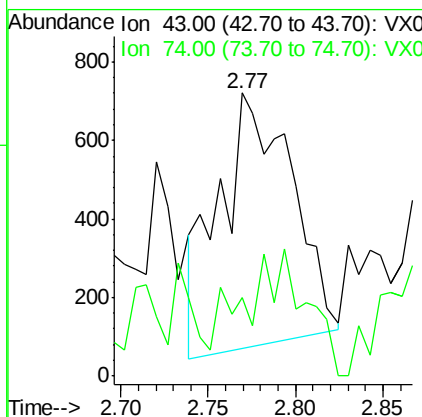
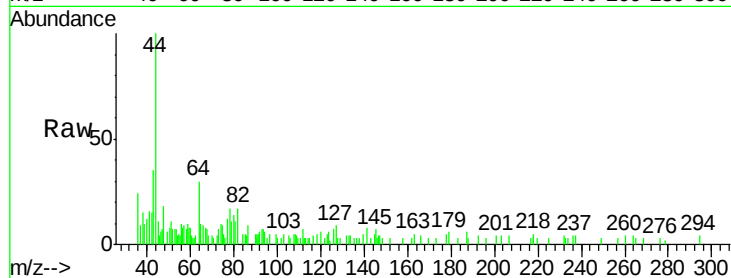




#18
Methyl Acetate
Concen: 0.232 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX007199.D
Acq: 24 Jan 2019 13:15

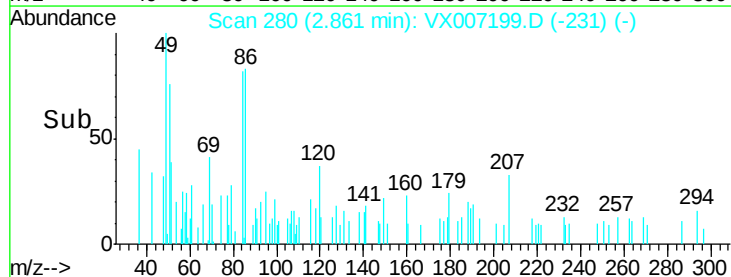
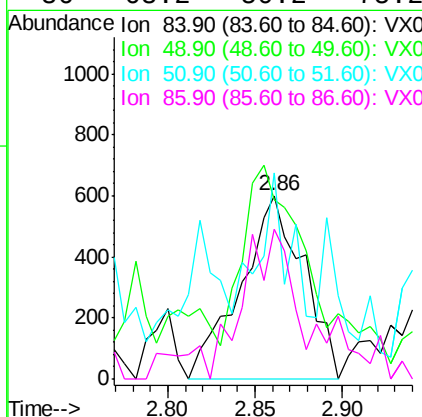
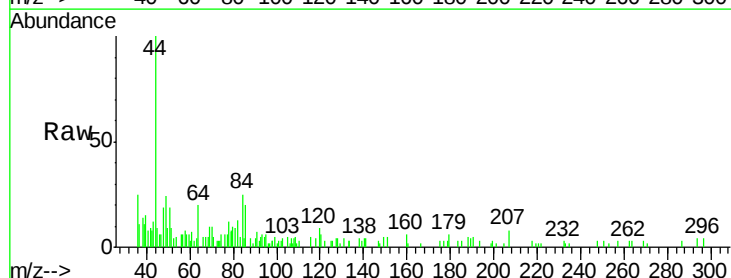
Instrument :
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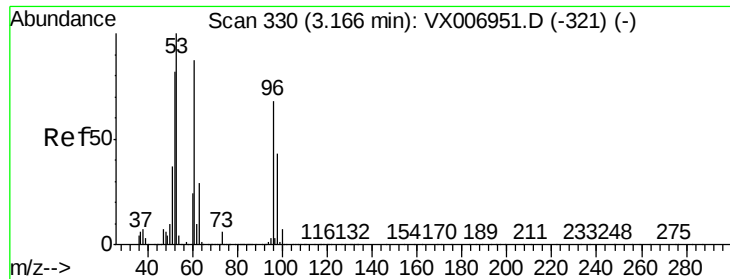
Tot Ion: 43 Resp: 1874
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007199.D
Acq: 24 Jan 2019 13:15

Tgt Ion: 84 Resp: 1505
Ion Ratio Lower Upper
84 100
49 64.2 91.8 137.6#
51 67.3 28.5 42.7#
86 68.2 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 0.208 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

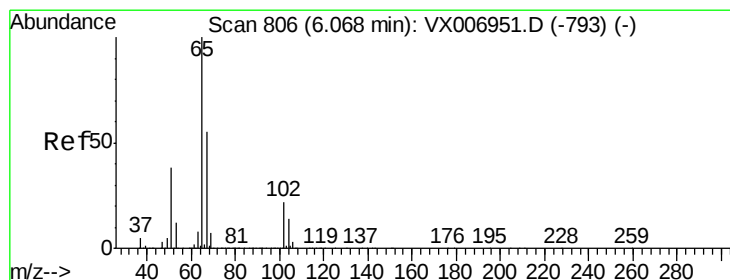
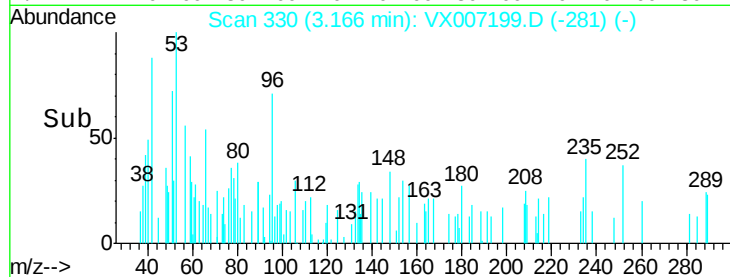
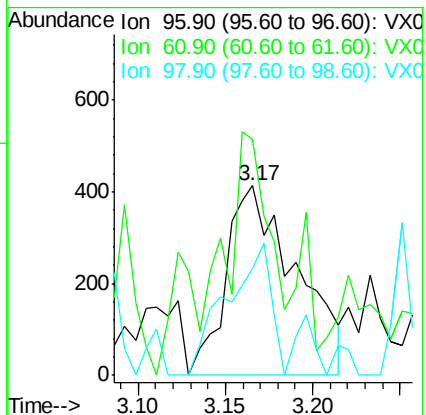
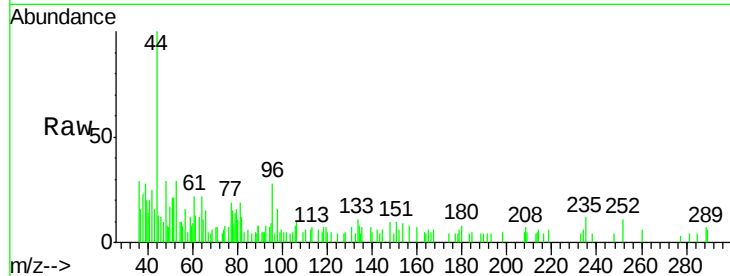
Tot Ion: 96 Resp: 1151

Ion Ratio Lower Upper

96 100

61 93.9 103.7 155.5#

98 56.2 51.0 76.6



#33

1,2-Dichloroethane-d4

Concen: 51.263 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007199.D

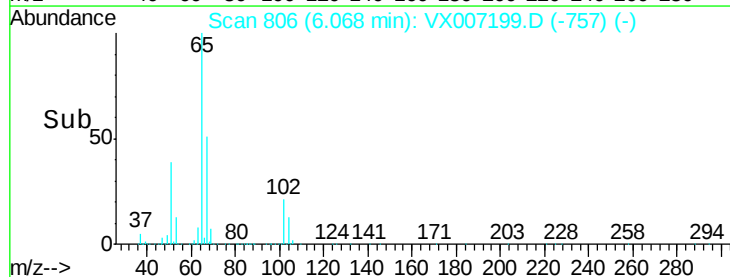
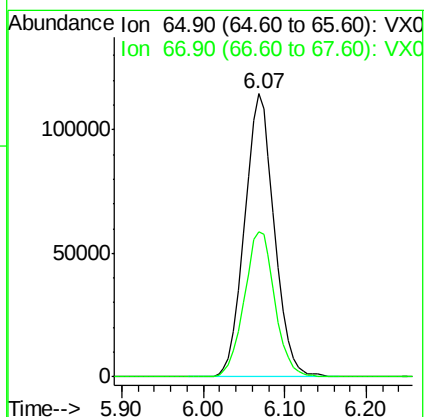
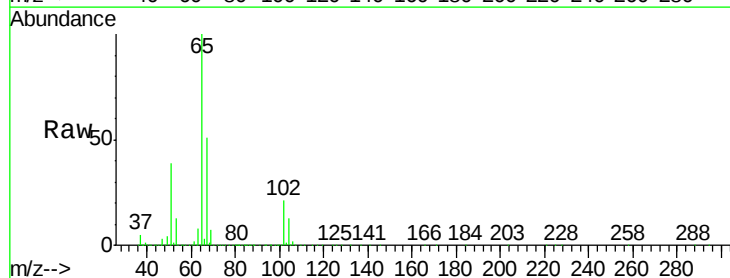
Acq: 24 Jan 2019 13:15

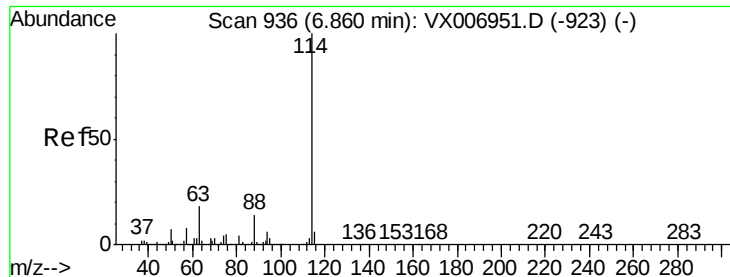
Tgt Ion: 65 Resp: 289703

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

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ClientSampleId :

S8TB04-190122

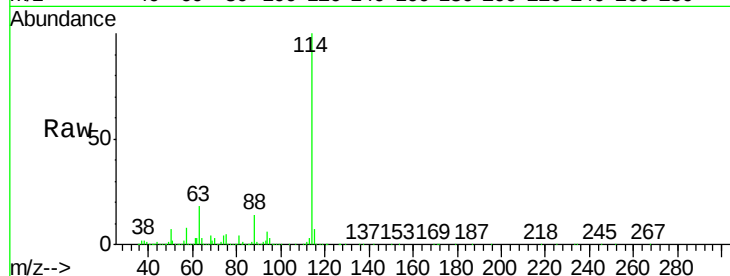
Tot Ion:114 Resp: 826482

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.8

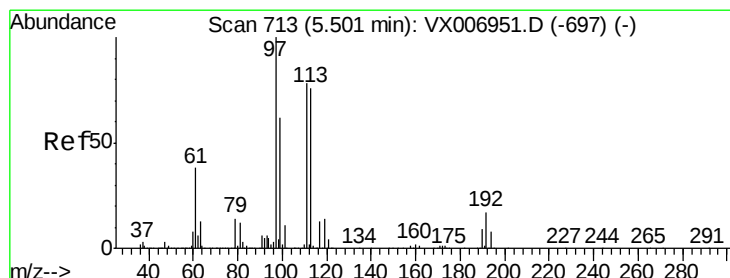
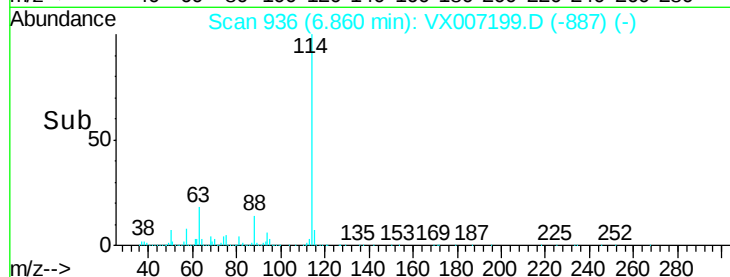
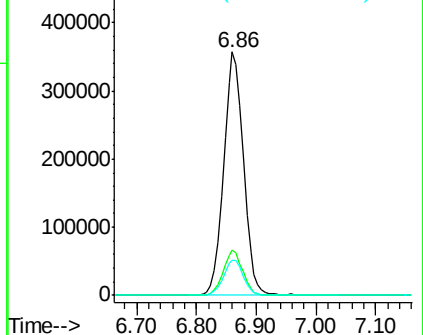
88 14.2 0.0 28.8



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: 49.833 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

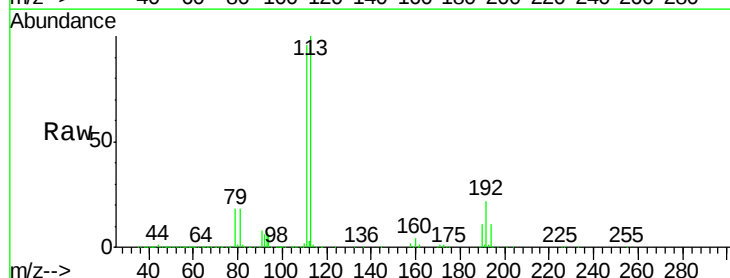
Tgt Ion:113 Resp: 263755

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

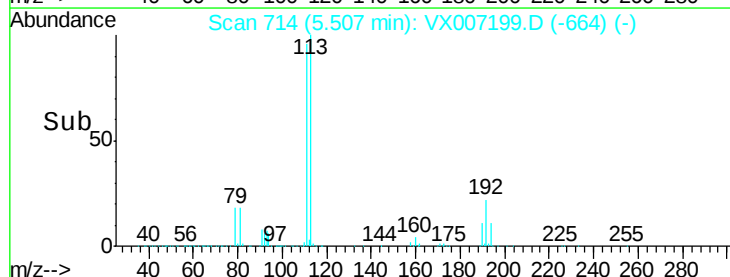
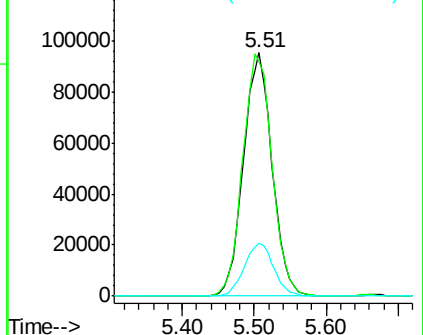
192 22.4 16.7 25.1

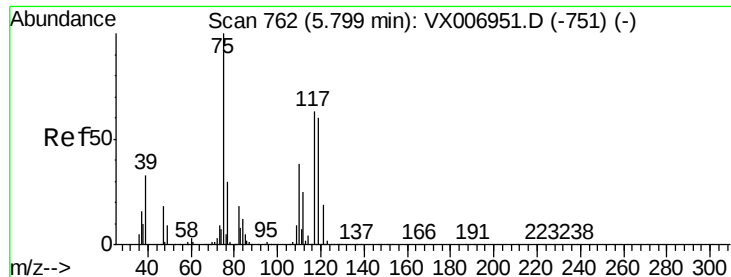


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.898 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

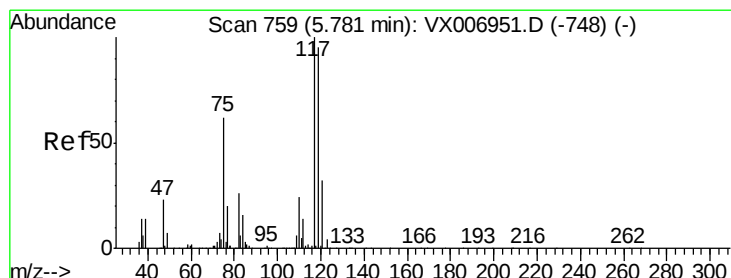
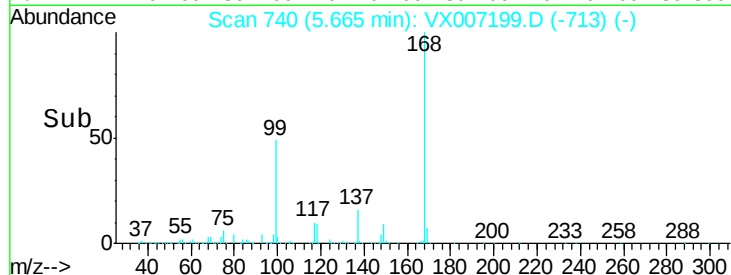
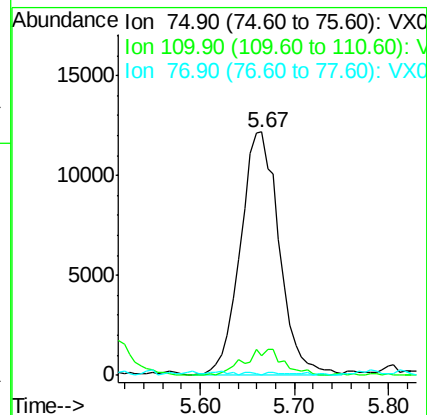
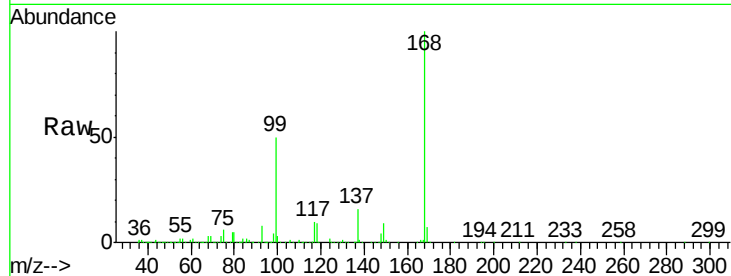
Tot Ion: 75 Resp: 35192

Ion Ratio Lower Upper

75 100

110 10.8 20.2 60.5#

77 0.9 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.844 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

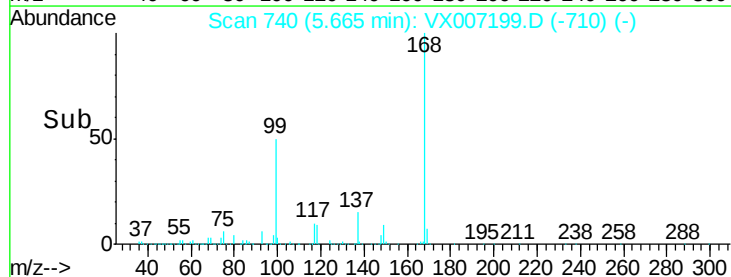
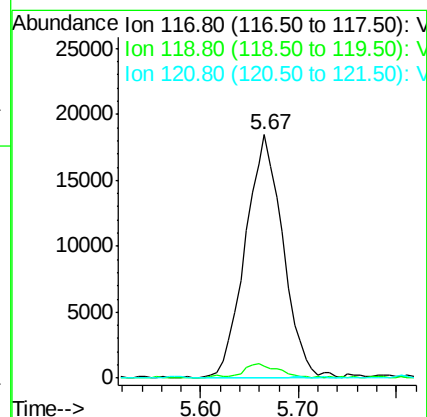
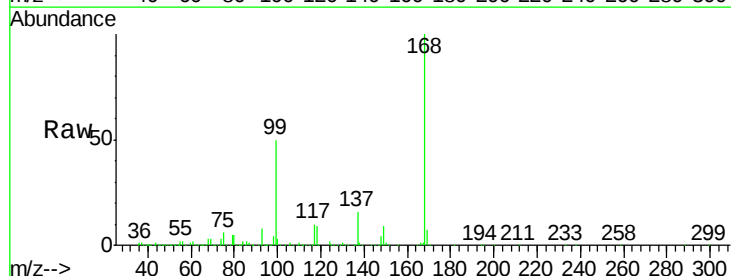
Tgt Ion: 117 Resp: 49482

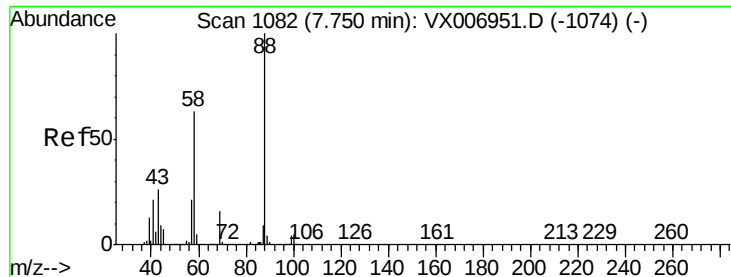
Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

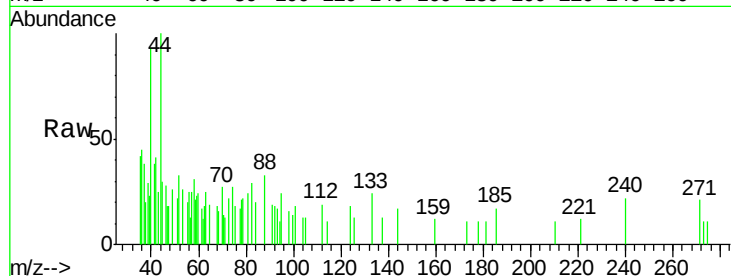
Tot Ion: 88 Resp: 213

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

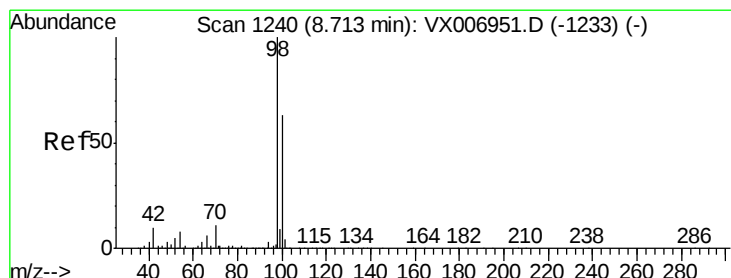
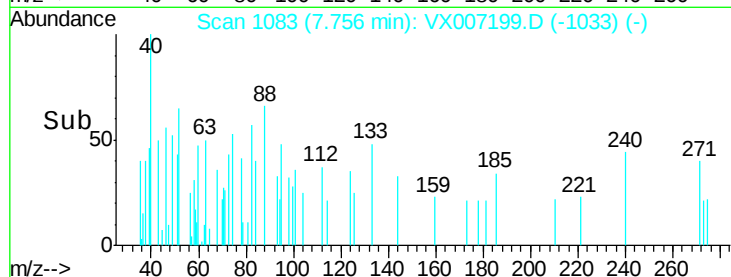
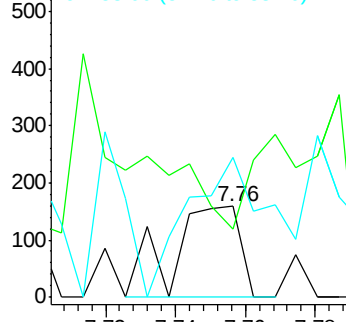
58 191.5 51.0 76.4#



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: 51.007 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007199.D

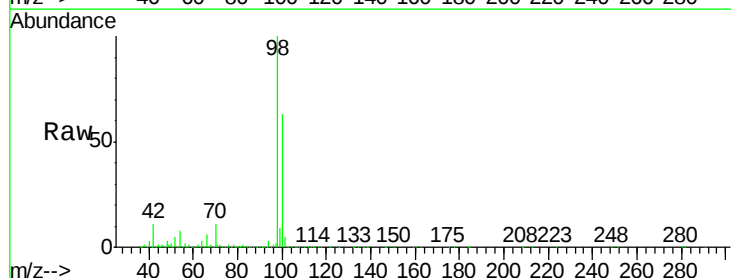
Acq: 24 Jan 2019 13:15

Tgt Ion: 98 Resp: 988167

Ion Ratio Lower Upper

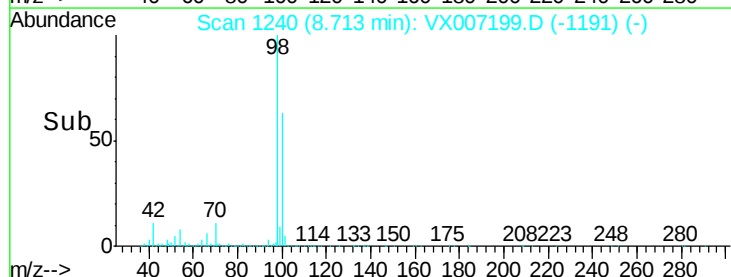
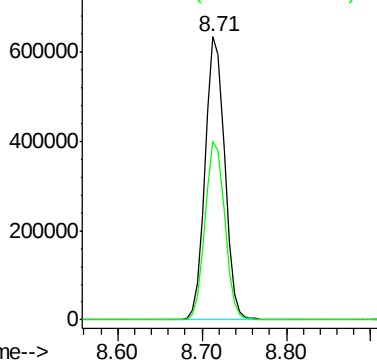
98 100

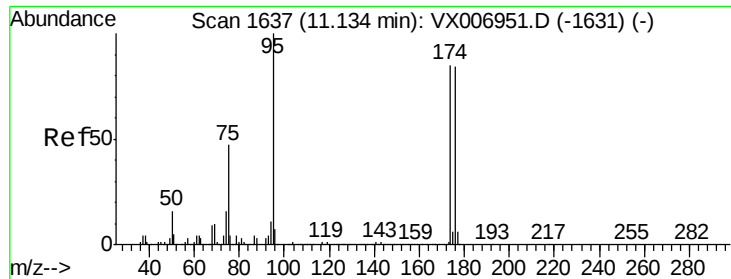
100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 50.634 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

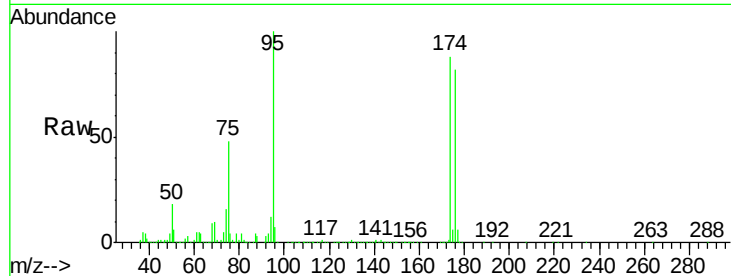
Tot Ion: 95 Resp: 341976

Ion Ratio Lower Upper

95 100

174 94.2 0.0 182.2

176 90.4 0.0 178.8

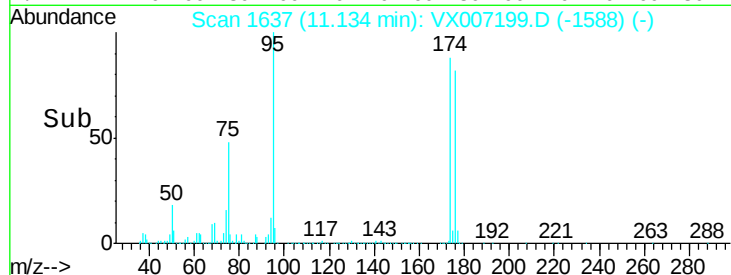


Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)

Time-->



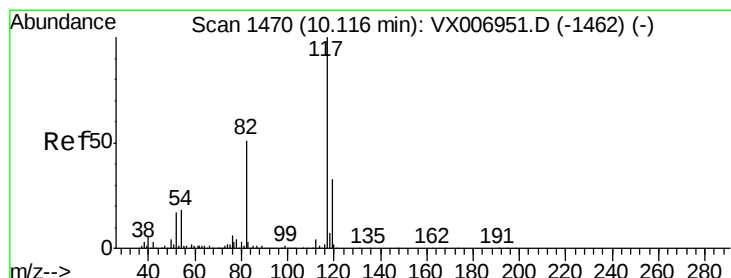
Abundance

Ion 94.90 (94.60 to 95.60): VX007199.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX007199.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX007199.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

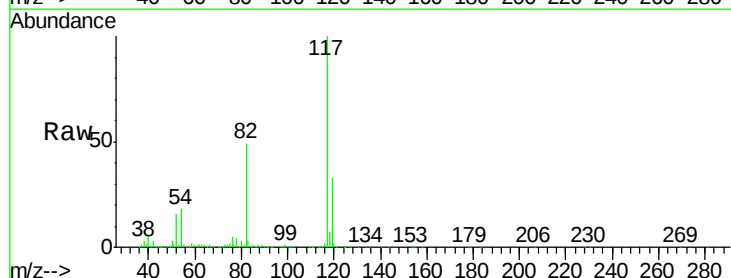
Tgt Ion: 117 Resp: 771343

Ion Ratio Lower Upper

117 100

82 49.3 41.0 61.6

119 32.5 25.4 38.0

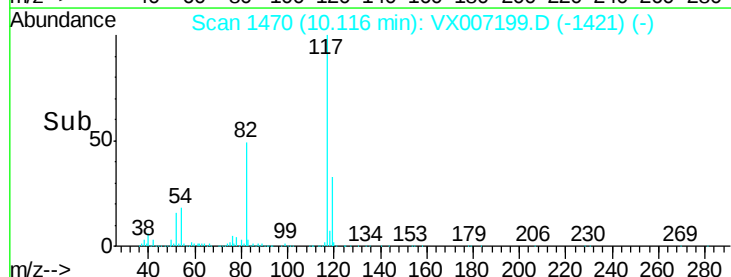


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)

Time-->



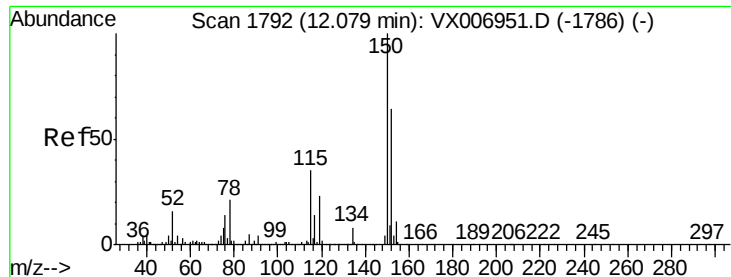
Abundance

Ion 116.90 (116.60 to 117.60): VX007199.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX007199.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX007199.D (-1421) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

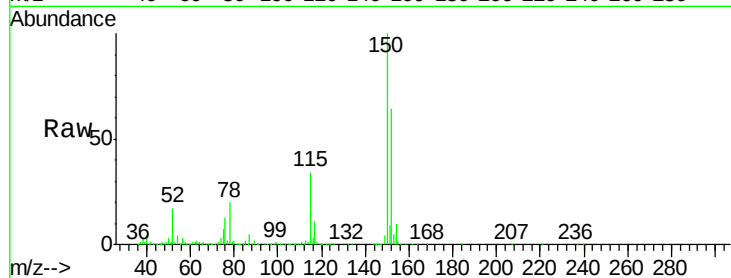
Tot Ion:152 Resp: 366400

Ion Ratio Lower Upper

152 100

115 55.2 39.1 117.2

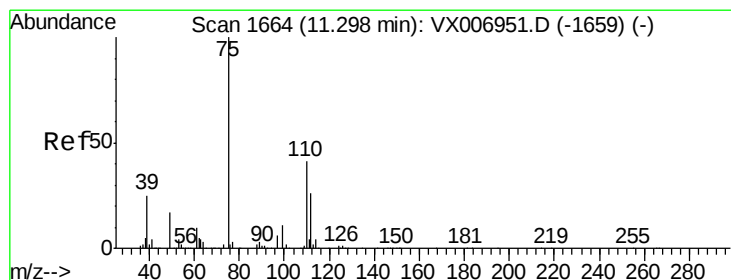
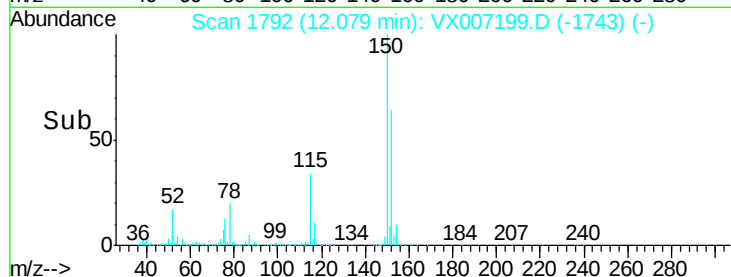
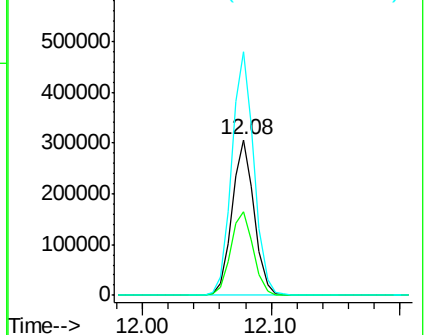
150 157.9 0.0 344.8



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: 21.961 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007199.D

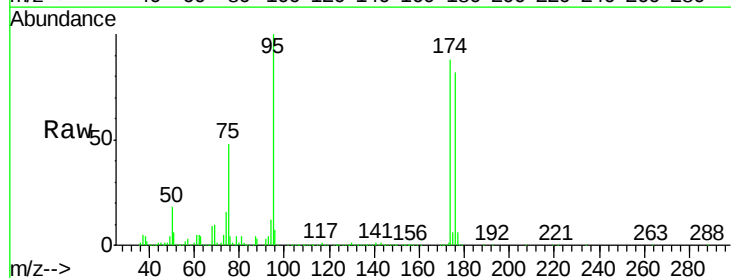
Acq: 24 Jan 2019 13:15

Tgt Ion: 75 Resp: 163060

Ion Ratio Lower Upper

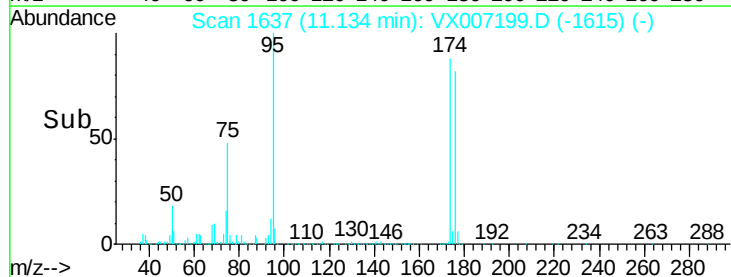
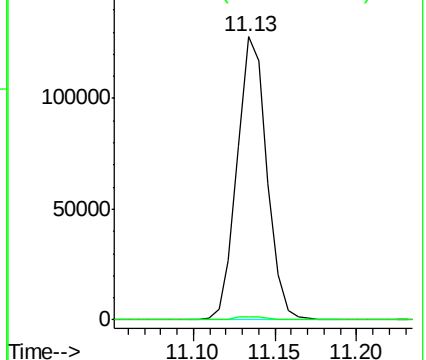
75 100

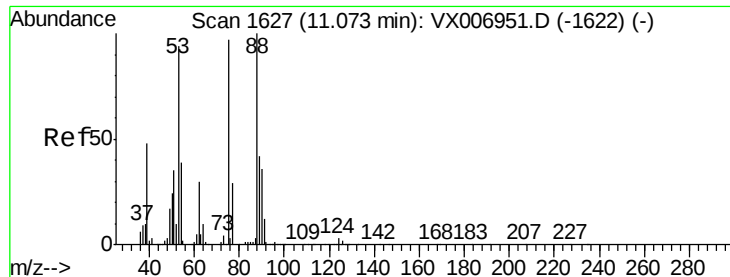
77 1.4 18.5 55.5#



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: 65.044 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

S8TB04-190122

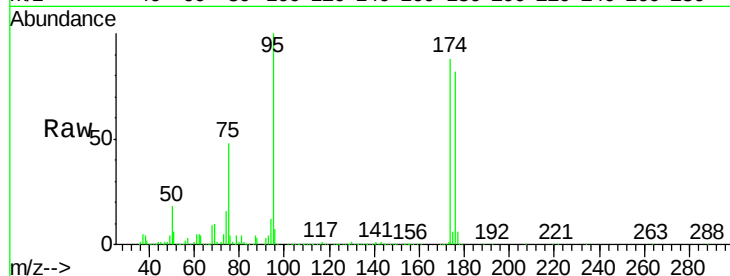
Tot Ion: 75 Resp: 163060

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

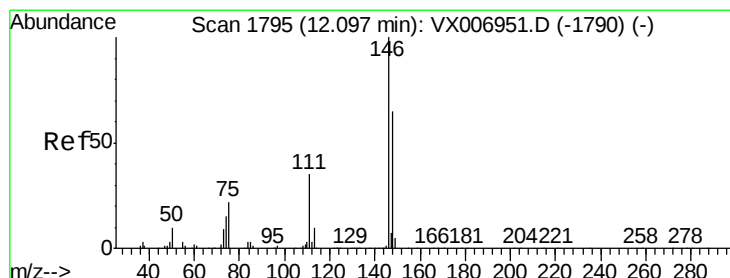
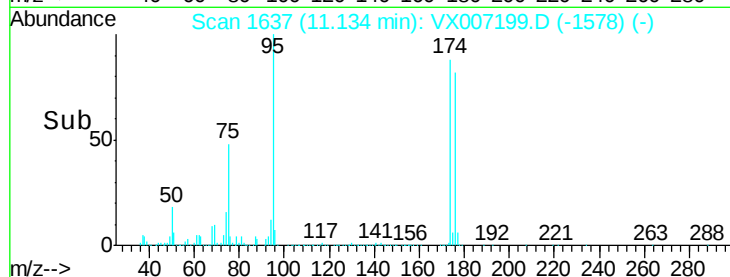
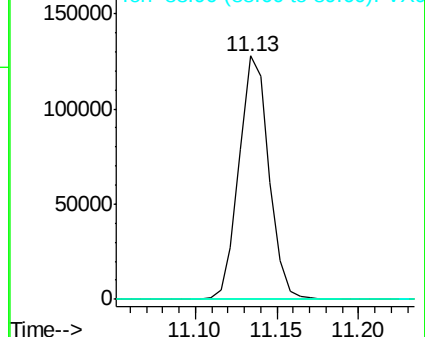
89 0.0 38.0 57.0#



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



#88

1,4-Dichlorobenzene

Concen: 0.232 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

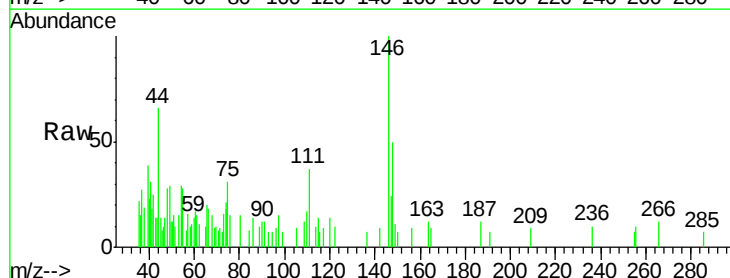
Tgt Ion: 146 Resp: 1067

Ion Ratio Lower Upper

146 100

111 38.8 18.1 54.1

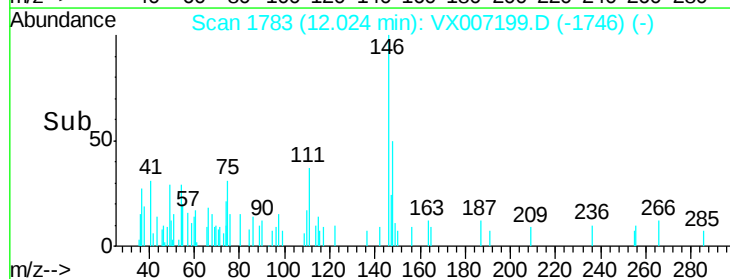
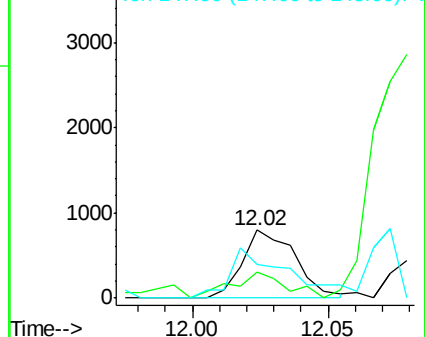
148 75.7 31.9 95.9

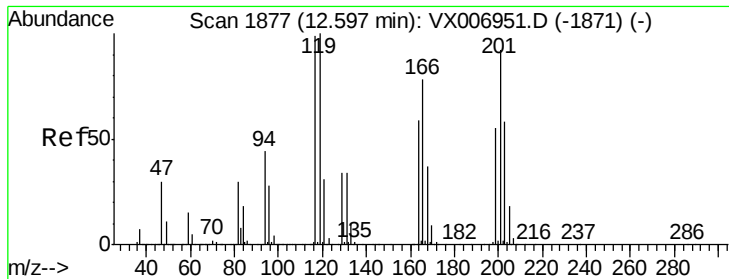


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 2.921 ug/l

RT: 12.66 min Scan# 1887

Delta R.T. 0.06 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

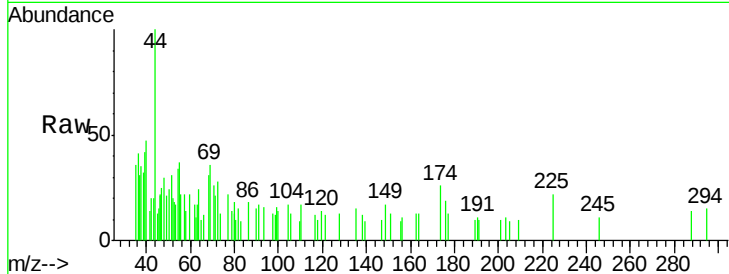
S8TB04-190122

Tot Ion:117 Resp: 48

Ion Ratio Lower Upper

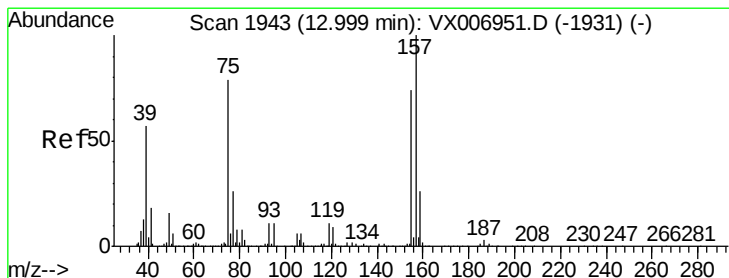
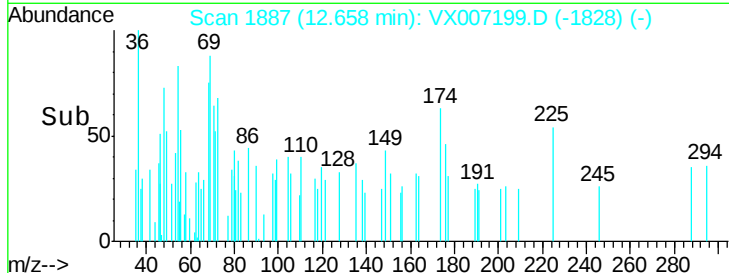
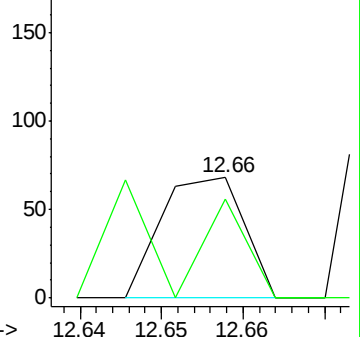
117 100

201 93.8 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.274 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX007199.D

Acq: 24 Jan 2019 13:15

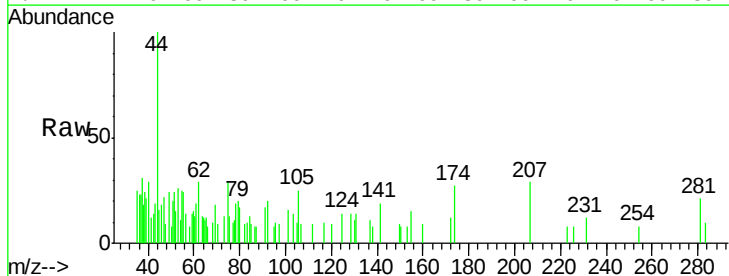
Tgt Ion: 75 Resp: 445

Ion Ratio Lower Upper

75 100

155 29.2 50.6 151.8#

157 21.3 64.6 193.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

