

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052119\
 Data File : VX009758.D
 Acq On : 21 May 2019 19:18
 Operator : JC/SP
 Sample : K2973-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0151

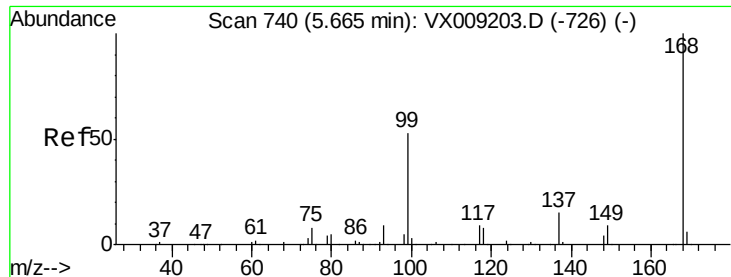
Quant Time: May 22 07:07:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	168725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	269817	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	233382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	94136	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	115258	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
35) Dibromofluoromethane	5.50	113	83299	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
50) Toluene-d8	8.71	98	339464	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.13	95	108606	43.65	ug/l	0.00
Spiked Amount			Recovery	=	87.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	34222	16.533	ug/l	97
5) Bromomethane	1.65	94	259	0.208	ug/l	81
6) Chloroethane	1.73	64	1098	0.826	ug/l #	73
10) Methyl Iodide	2.51	142	21	4.604	ug/l #	42
11) Tert butyl alcohol	3.04	59	288	0.540	ug/l	99
12) 1,1-Dichloroethene	2.39	96	469	0.296	ug/l #	49
16) Acetone	2.45	43	2722	2.201	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	13443	7.830	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	26051	12.712	ug/l	92
28) Bromochloromethane	5.01	49	41	Below Cal	#	20
31) Cyclohexane	5.57	56	860	0.253	ug/l #	89
36) 1,1-Dichloropropene	5.66	75	13097	5.223	ug/l #	50
38) Carbon Tetrachloride	5.66	117	15874	6.968	ug/l #	15
39) Methylcyclohexane	7.46	83	909	0.295	ug/l	88
40) Benzene	6.15	78	16700	2.152	ug/l	98
44) Trichloroethene	7.21	130	722	0.385	ug/l	93
49) 1,4-Dioxane	7.85	88	20	0.356	ug/l #	1
65) Chlorobenzene	10.13	112	142893	30.607	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	55771	25.541	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	55771	65.349	ug/l #	10
85) sec-Butylbenzene	11.94	105	1688	0.254	ug/l	91
86) p-Isopropyltoluene	12.23	119	1242	0.208	ug/l	94
87) 1,3-Dichlorobenzene	12.02	146	957	0.316	ug/l	92
88) 1,4-Dichlorobenzene	12.10	146	6072	1.988	ug/l	86
90) Hexachloroethane	12.70	117	375	0.368	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

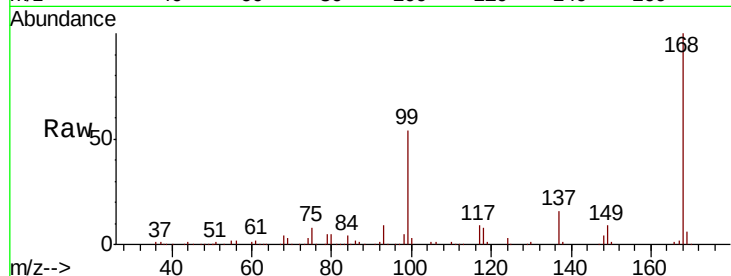
S36-0151

Tot Ion:168 Resp: 168725

Ion Ratio Lower Upper

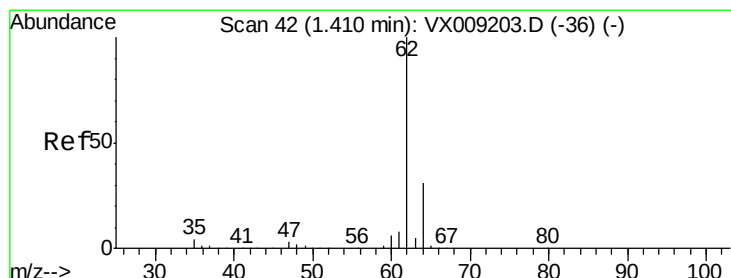
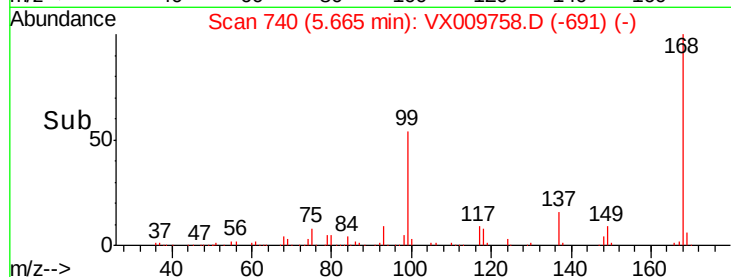
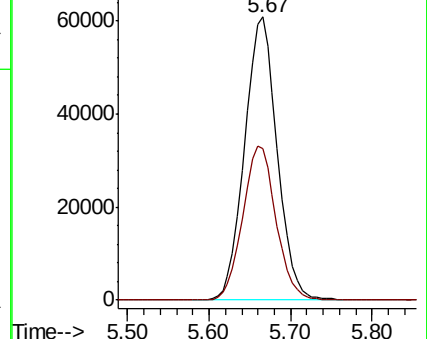
168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 16.533 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009758.D

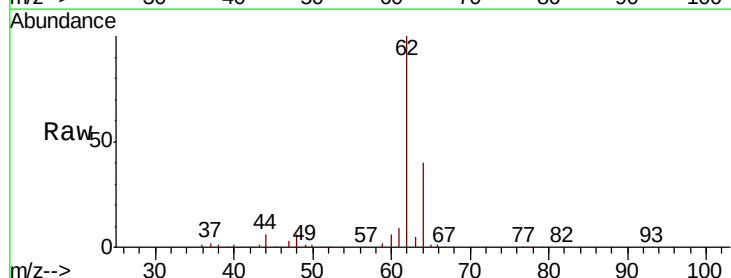
Acq: 21 May 2019 19:18

Tgt Ion: 62 Resp: 34222

Ion Ratio Lower Upper

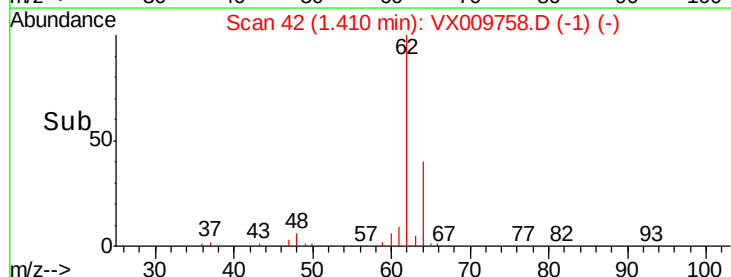
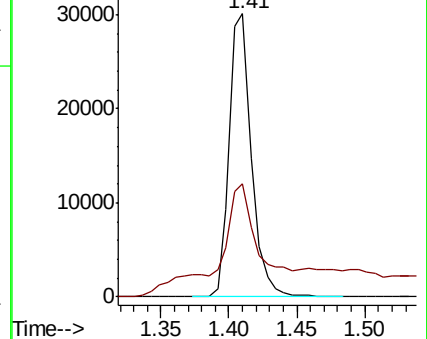
62 100

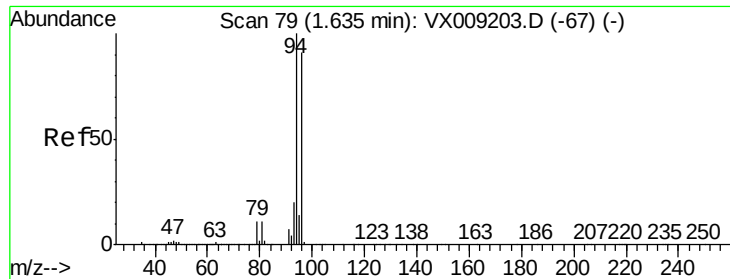
64 32.1 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

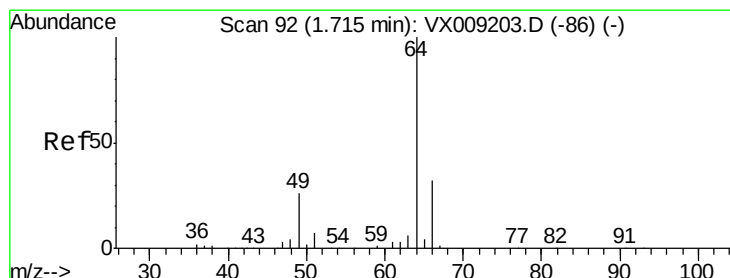
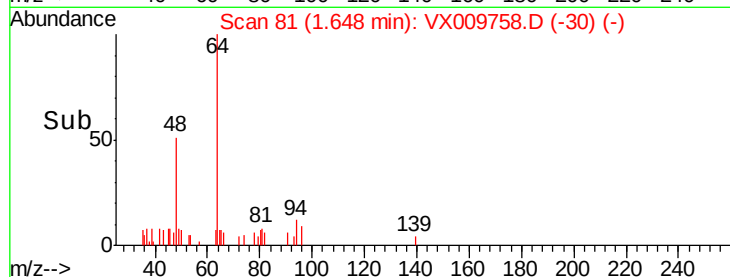
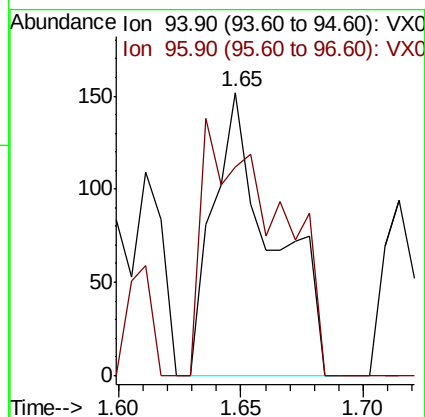
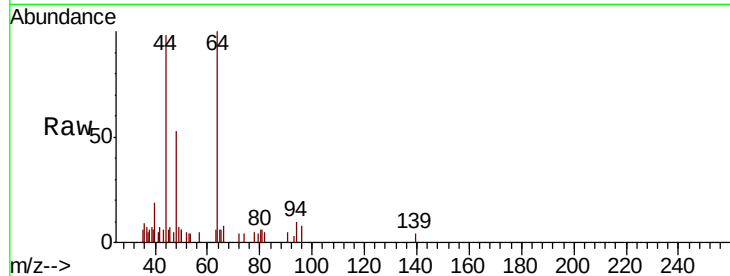
S36-0151

Tot Ion: 94 Resp: 259

Ion Ratio Lower Upper

94 100

96 73.7 73.0 109.6



#6

Chloroethane

Concen: 0.826 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX009758.D

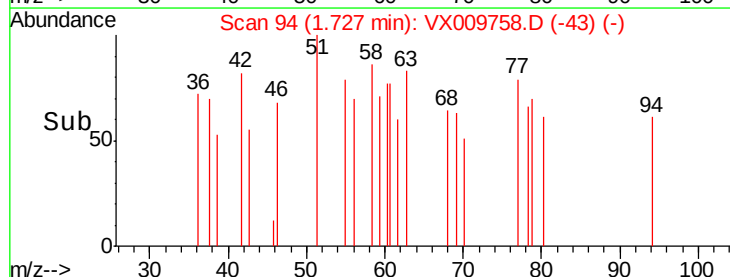
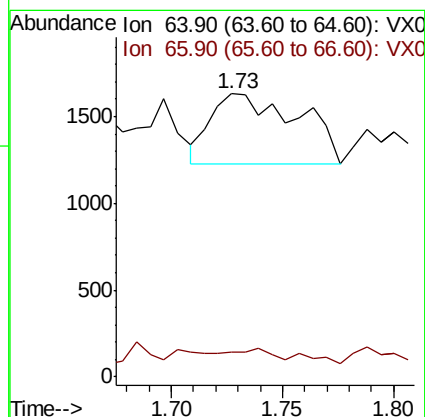
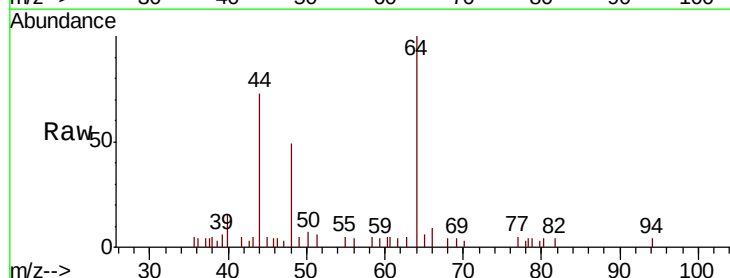
Acq: 21 May 2019 19:18

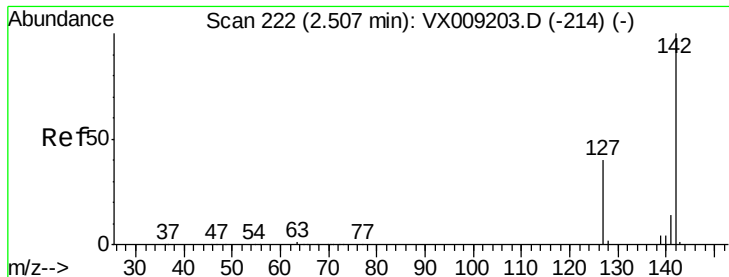
Tgt Ion: 64 Resp: 1098

Ion Ratio Lower Upper

64 100

66 16.4 25.3 37.9#

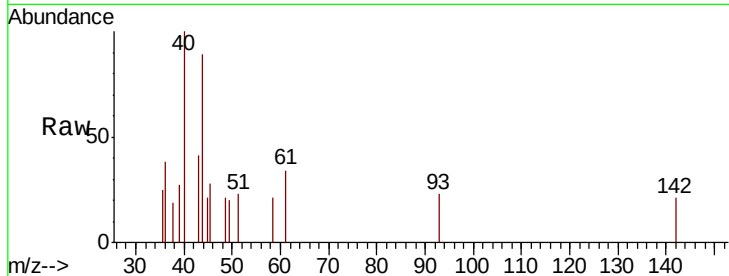




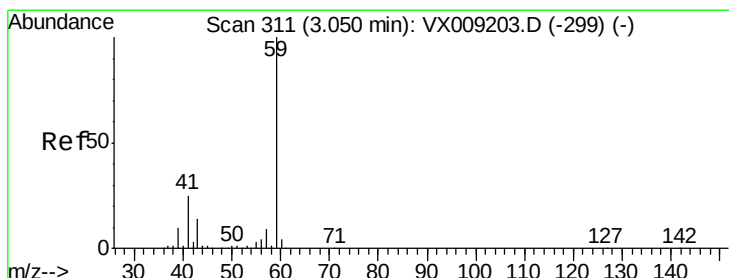
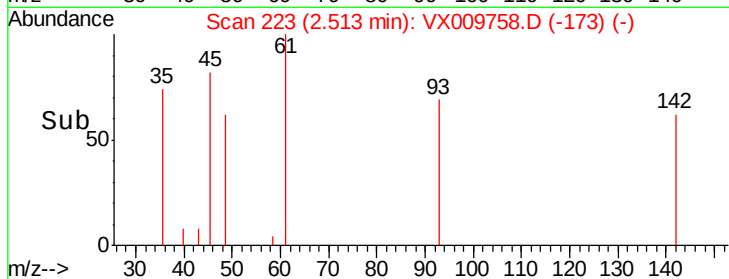
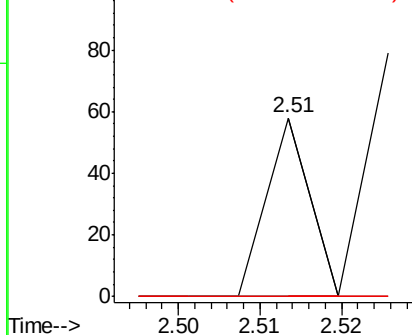
#10
Methyl Iodide
Concen: 4.604 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

Instrument :
MSVOA_X
ClientSampled :
S36-0151

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

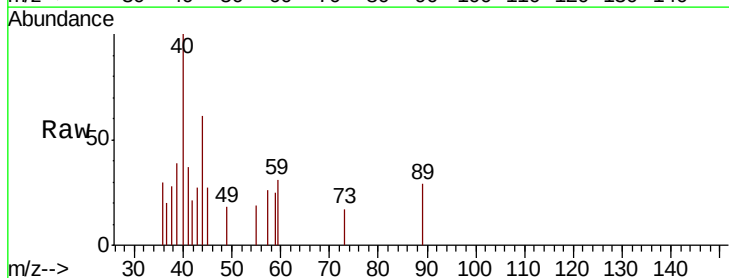


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

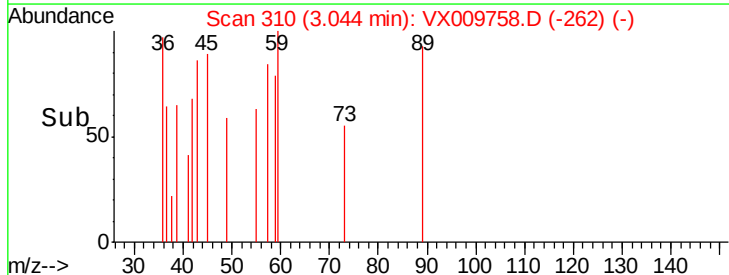
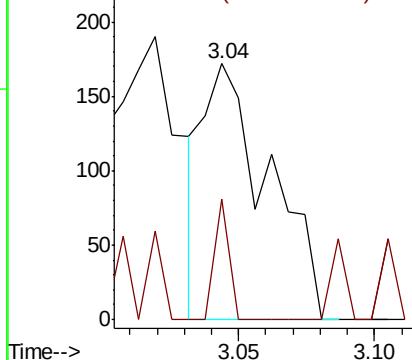


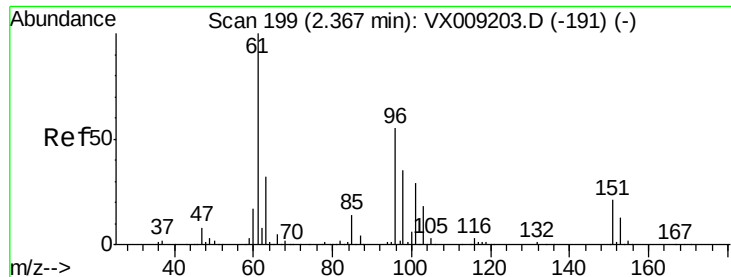
#11
Tert butyl alcohol
Concen: 0.540 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

Tgt Ion: 59 Resp: 288
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

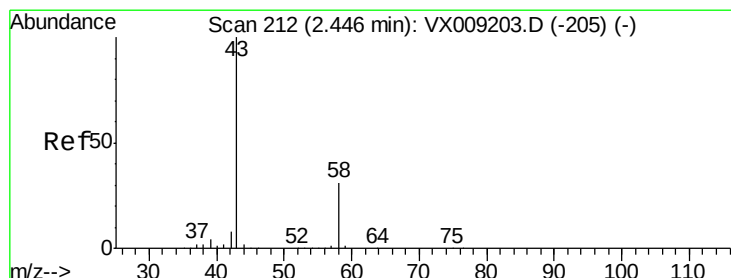
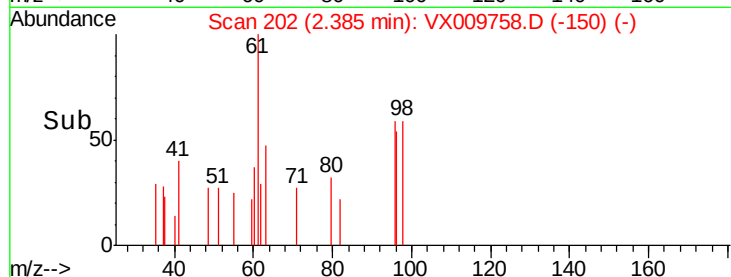
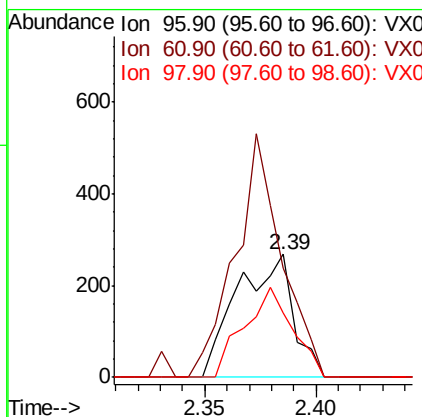
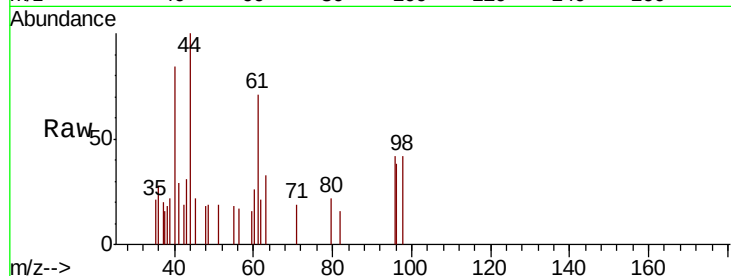




#12
 1,1-Dichloroethene
 Concen: 0.296 ug/l
 RT: 2.39 min Scan# 202
 Delta R.T. 0.02 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

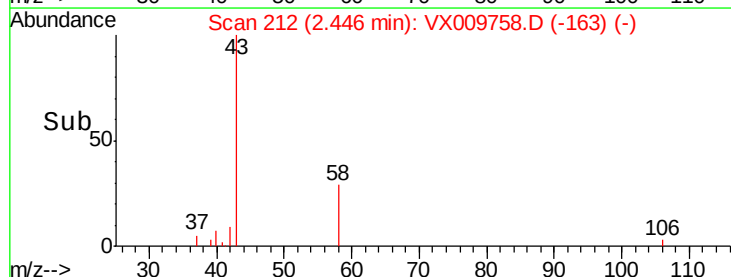
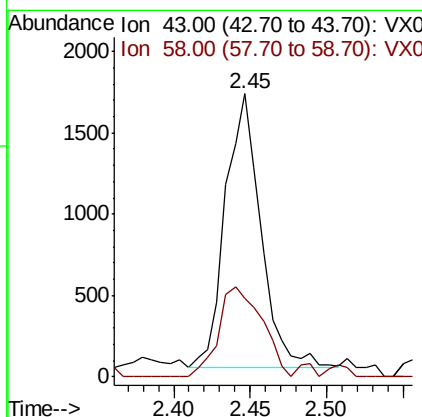
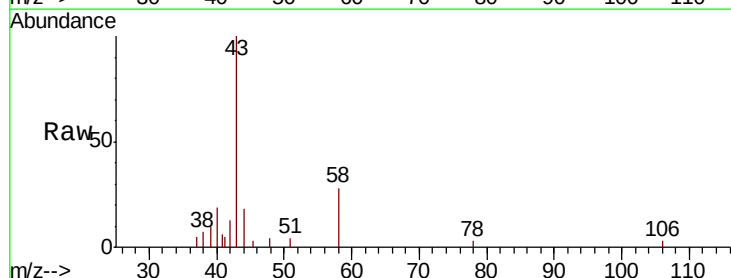
Instrument :
 MSVOA_X
 ClientSampled :
 S36-0151

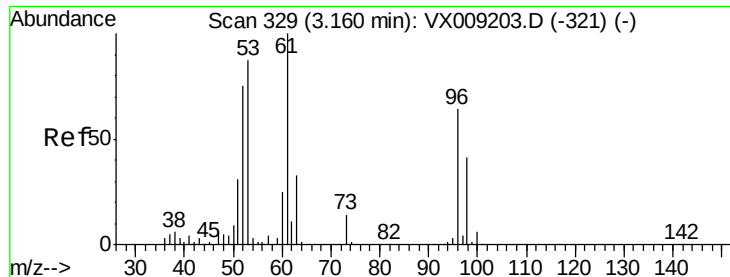
Tot Ion	Ratio	Lower	Upper
96	100		
61	88.8	144.3	216.5#
98	52.6	50.3	75.5



#16
 Acetone
 Concen: 2.201 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.7	24.9	37.3





#21

trans-1,2-Dichloroethene

Concen: 7.830 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampled :

S36-0151

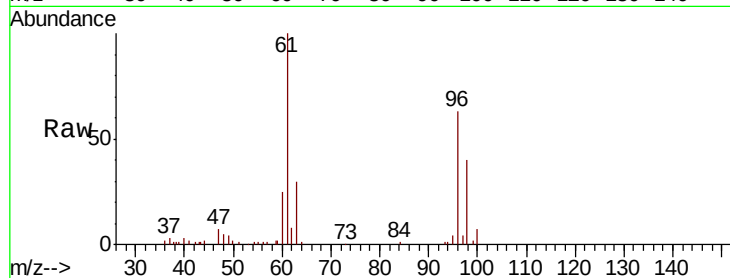
Tot Ion: 96 Resp: 13443

Ion Ratio Lower Upper

96 100

61 158.5 124.5 186.7

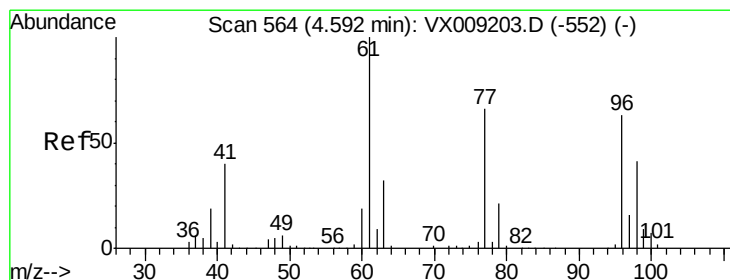
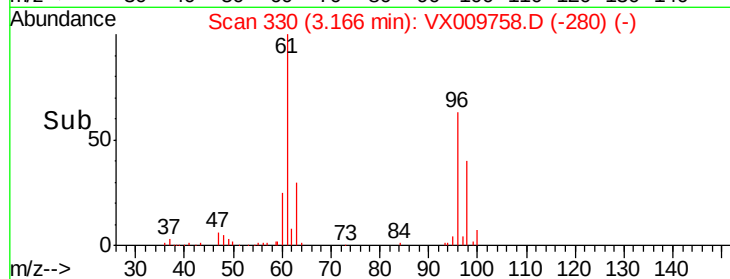
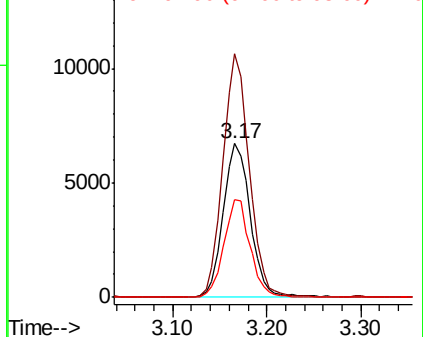
98 63.5 50.4 75.6



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



#27

cis-1,2-Dichloroethene

Concen: 12.712 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

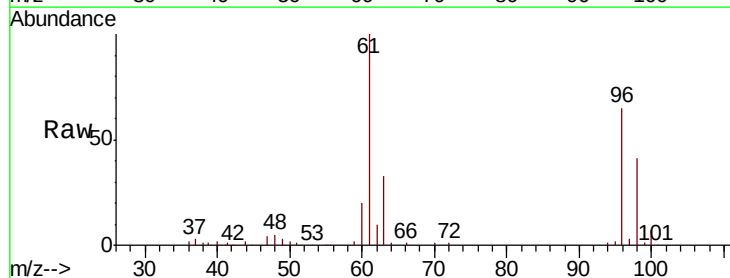
Tgt Ion: 96 Resp: 26051

Ion Ratio Lower Upper

96 100

61 146.6 0.0 324.0

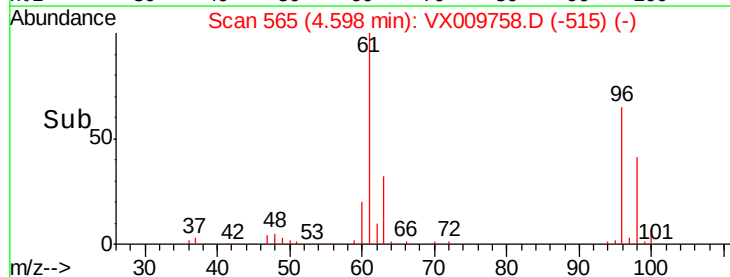
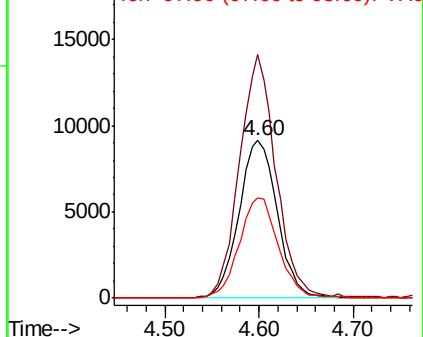
98 64.7 0.0 130.4

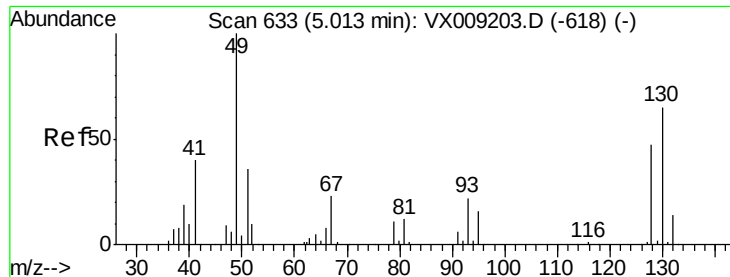


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

S36-0151

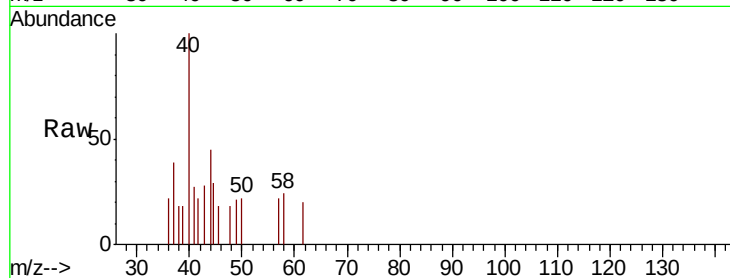
Tot Ion: 49 Resp: 41

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

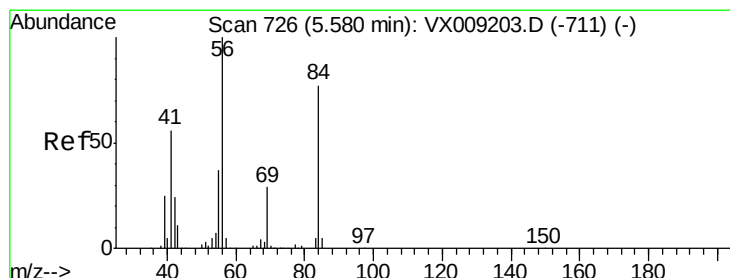
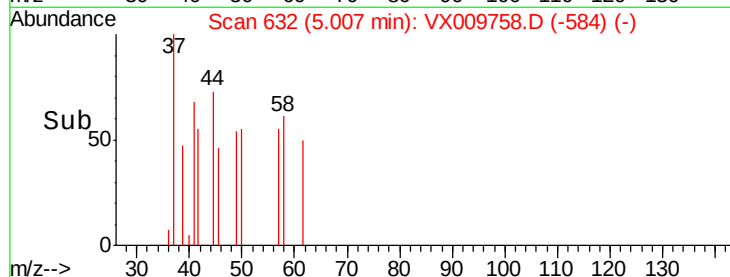
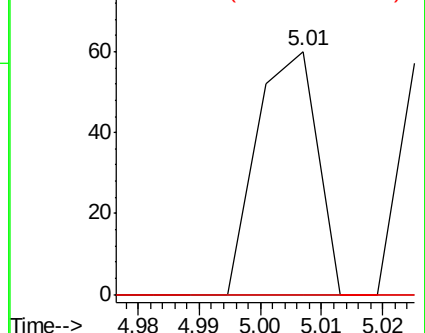
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.253 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

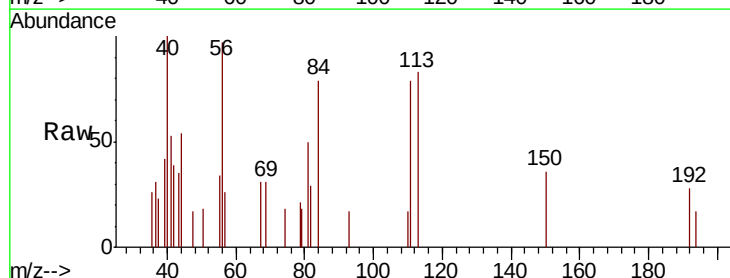
Tgt Ion: 56 Resp: 860

Ion Ratio Lower Upper

56 100

69 45.3 23.4 35.0#

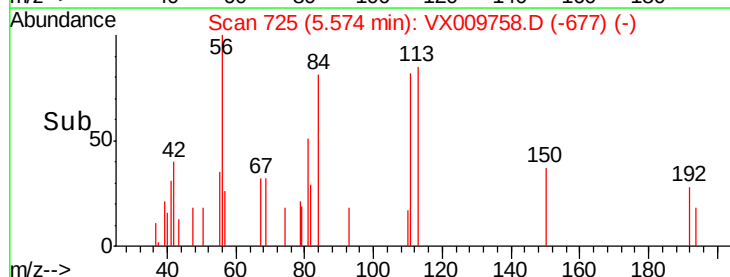
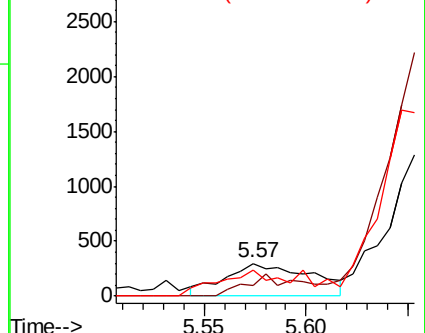
84 80.2 61.9 92.9

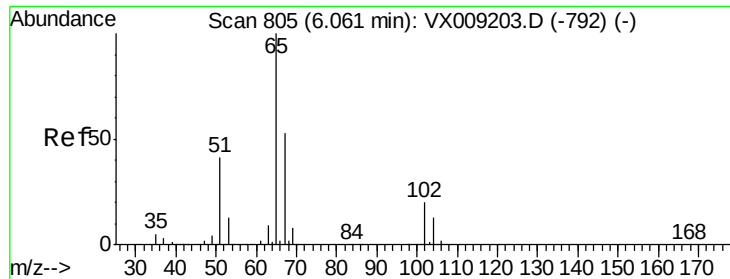


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

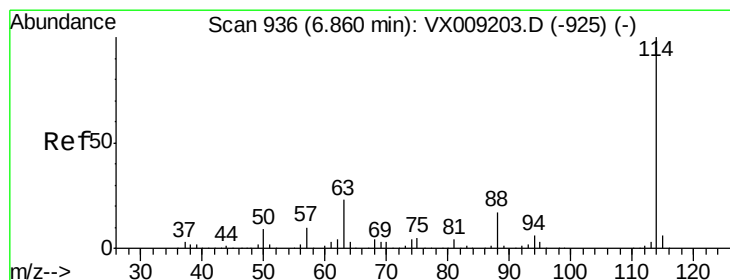
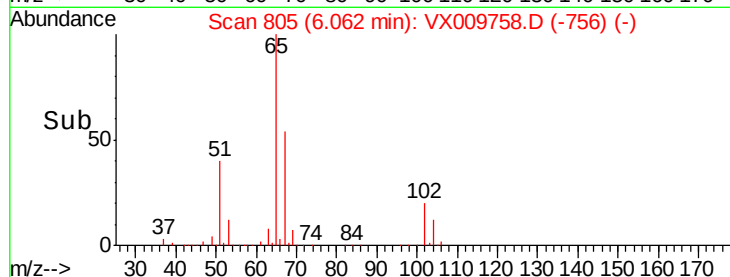
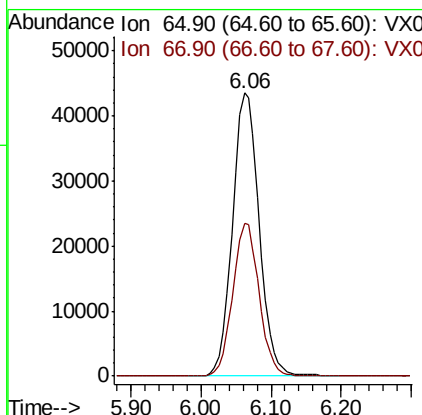
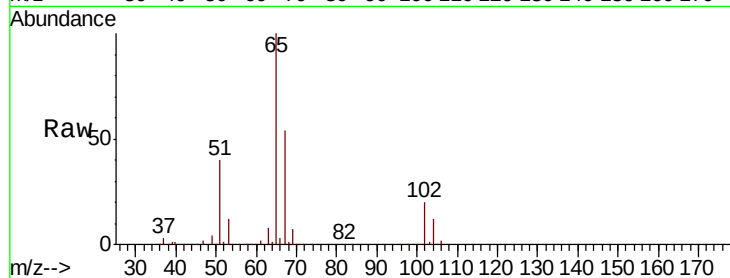




#33
 1,2-Dichloroethane-d4
 Concen: 50.040 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

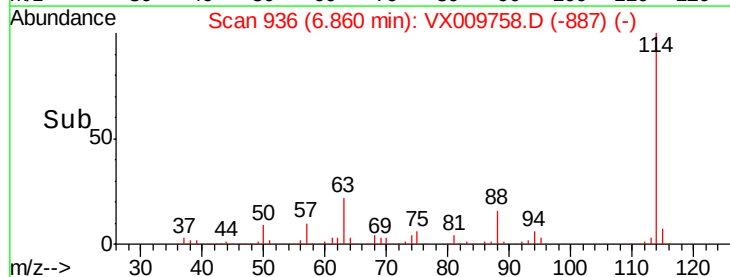
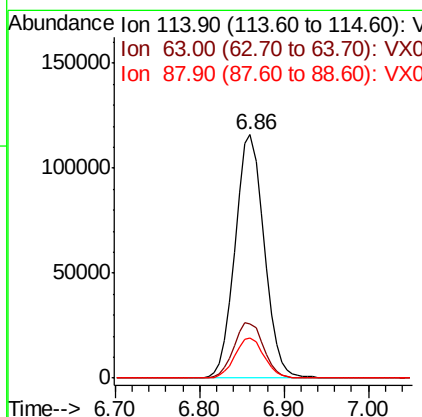
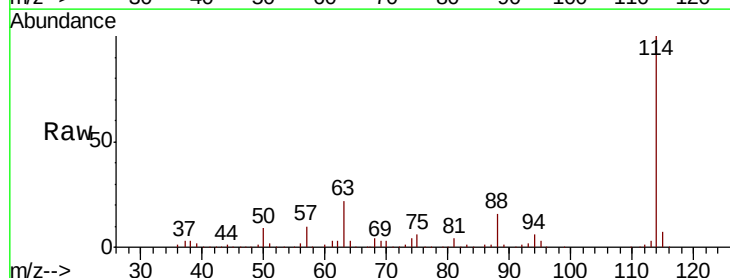
Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0151

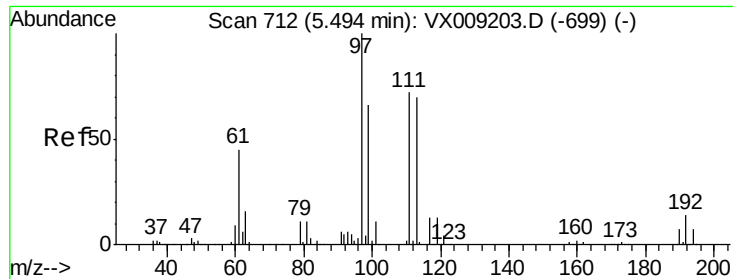
Tot Ion: 65 Resp: 115258
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion: 114 Resp: 269817
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.6
 88 16.4 0.0 33.2

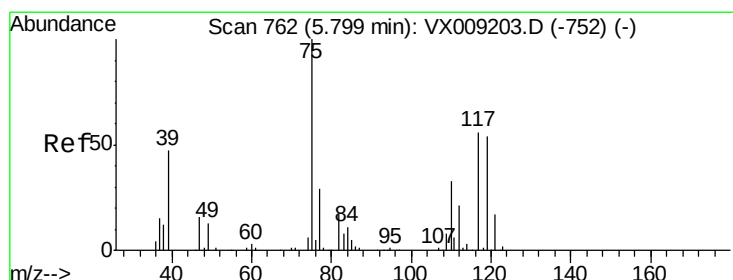
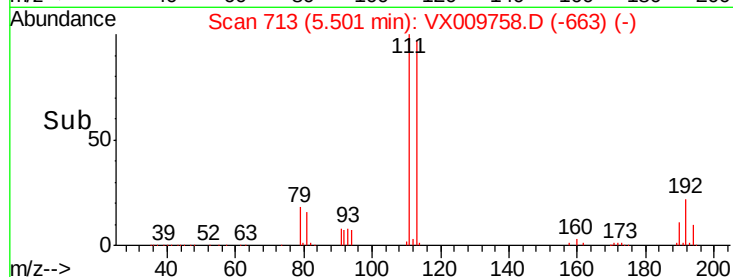
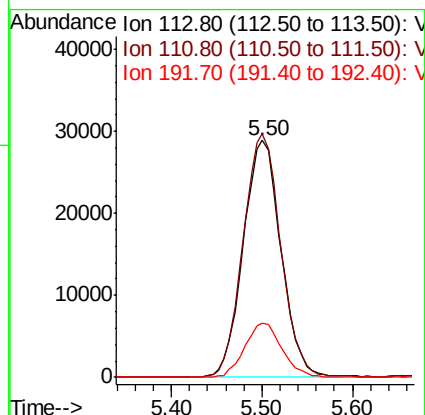
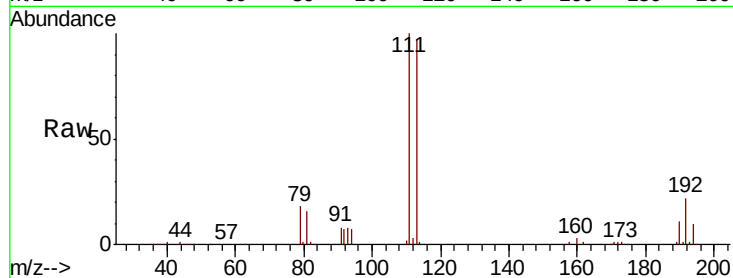




#35
 Dibromofluoromethane
 Concen: 49.110 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

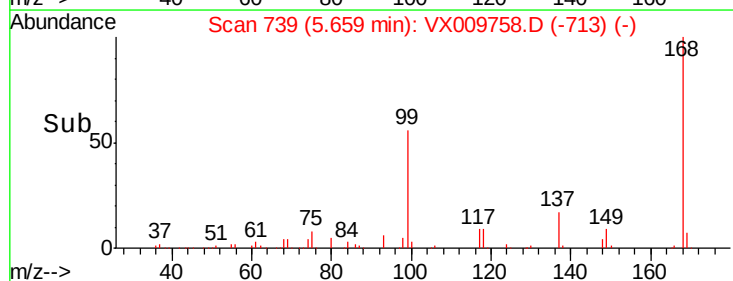
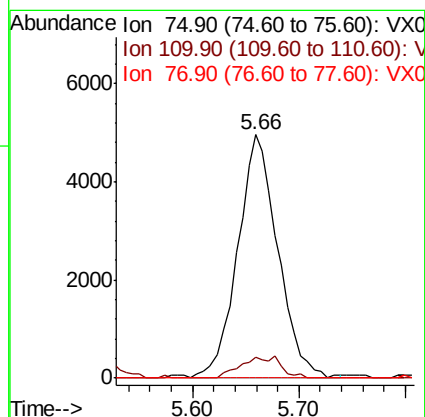
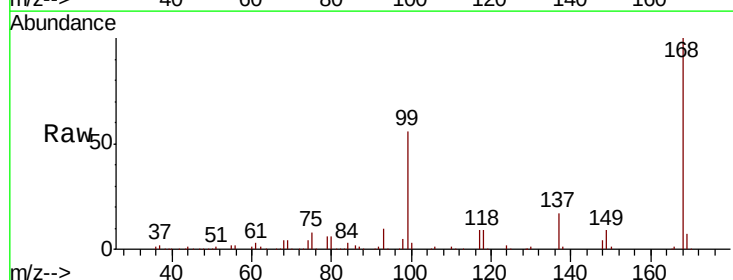
Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0151

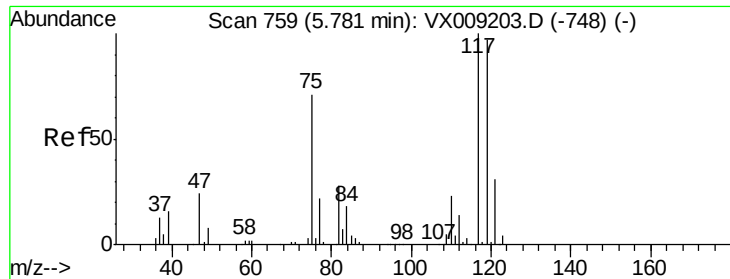
Tot Ion:113 Resp: 83299
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 22.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.223 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion: 75 Resp: 13097
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.968 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

S36-0151

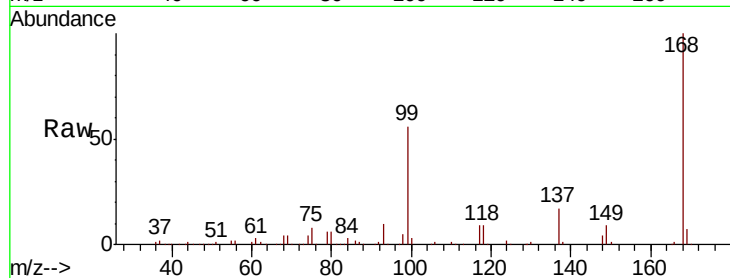
Tot Ion:117 Resp: 15874

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

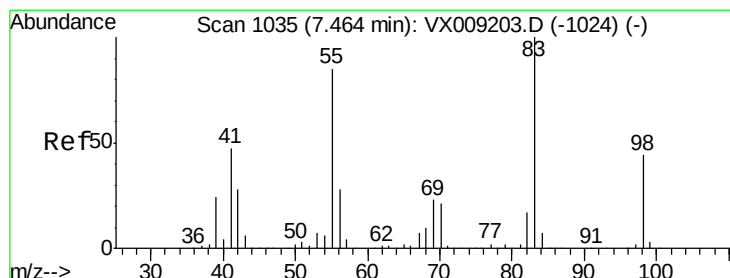
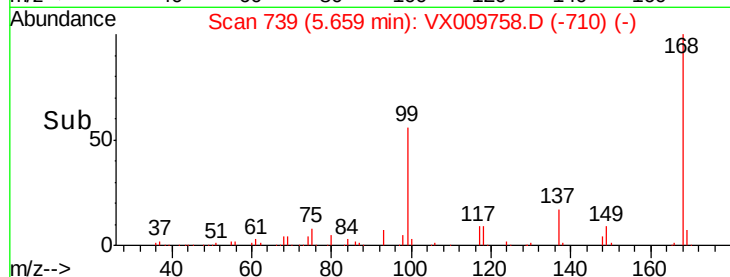
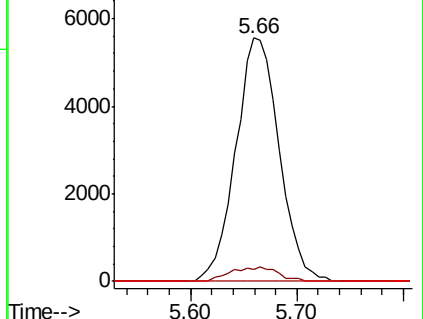
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.295 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

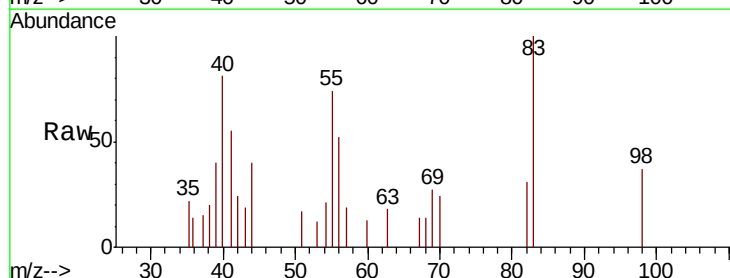
Tgt Ion: 83 Resp: 909

Ion Ratio Lower Upper

83 100

55 73.9 67.7 101.5

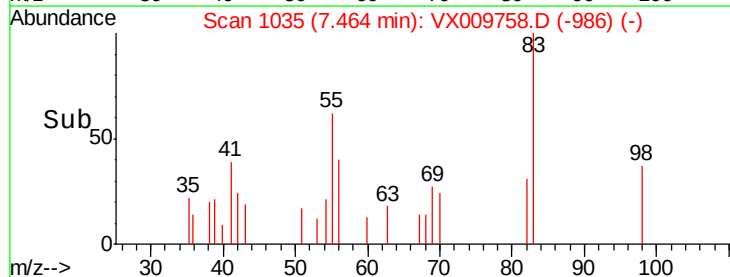
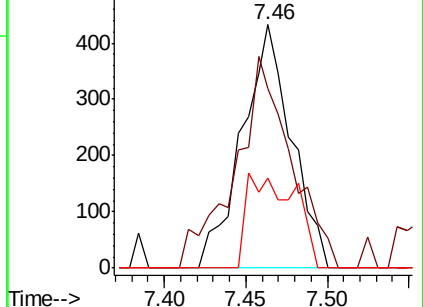
98 37.0 35.5 53.3

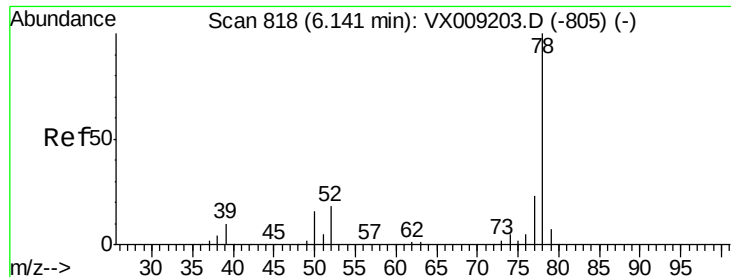


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 2.152 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampled :

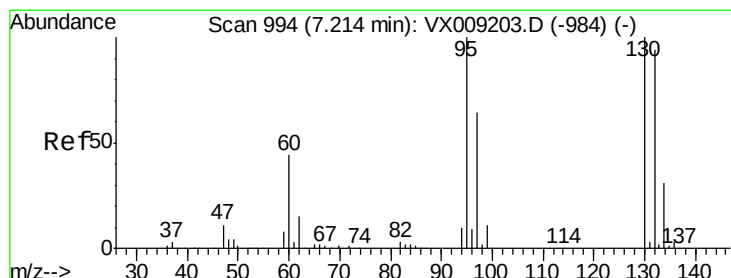
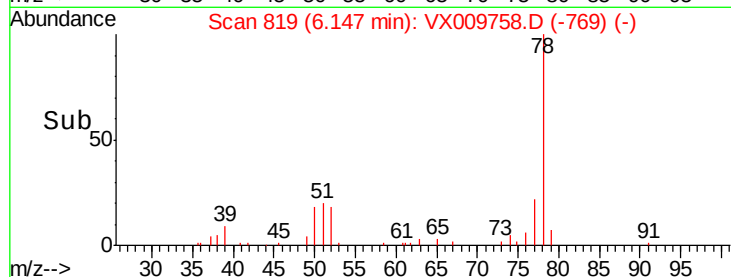
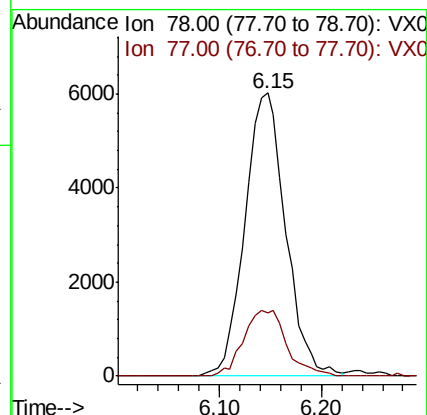
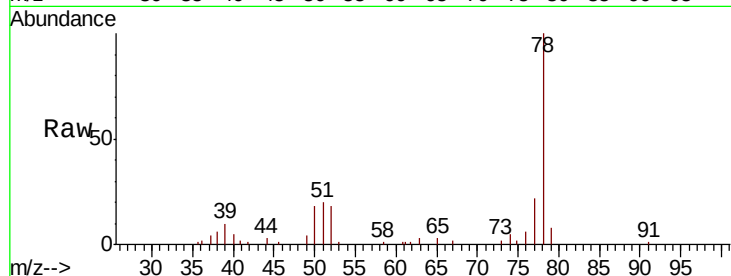
S36-0151

Tot Ion: 78 Resp: 16700

Ion Ratio Lower Upper

78 100

77 22.4 18.8 28.2



#44

Trichloroethene

Concen: 0.385 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009758.D

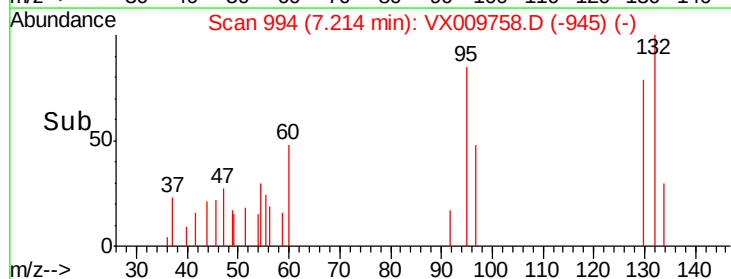
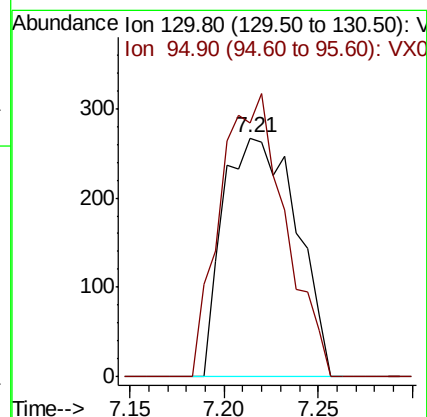
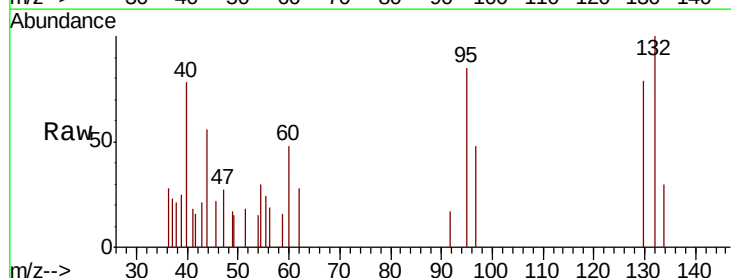
Acq: 21 May 2019 19:18

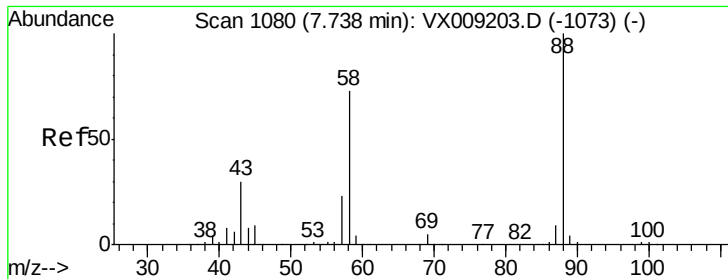
Tgt Ion:130 Resp: 722

Ion Ratio Lower Upper

130 100

95 106.4 0.0 199.2

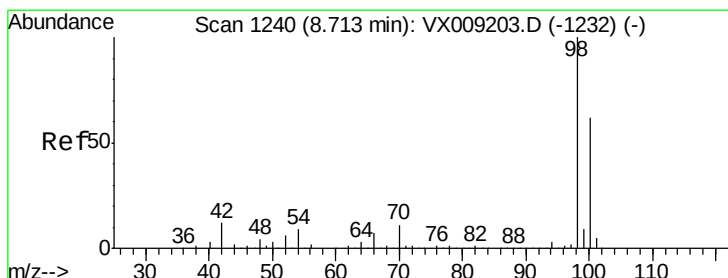
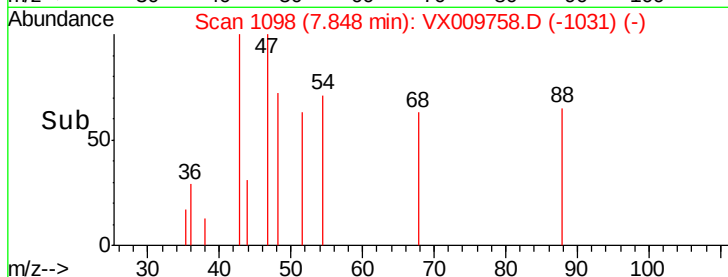
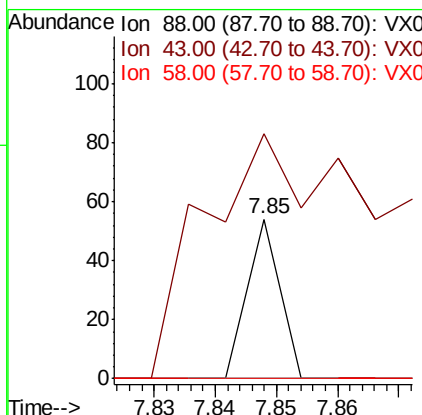
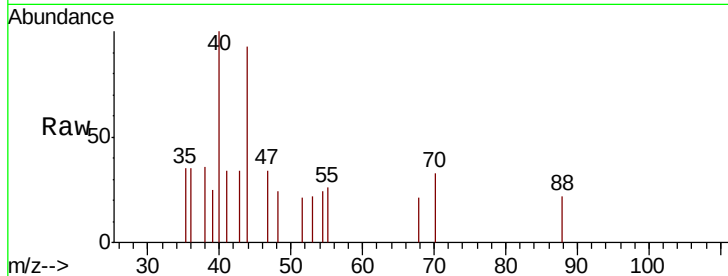




#49
 1,4-Dioxane
 Concen: 0.356 ug/l
 RT: 7.85 min Scan# 1098
 Delta R.T. 0.11 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

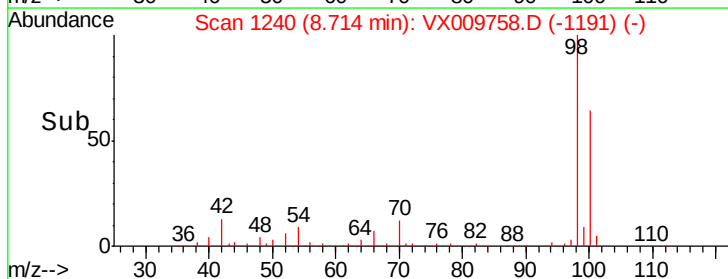
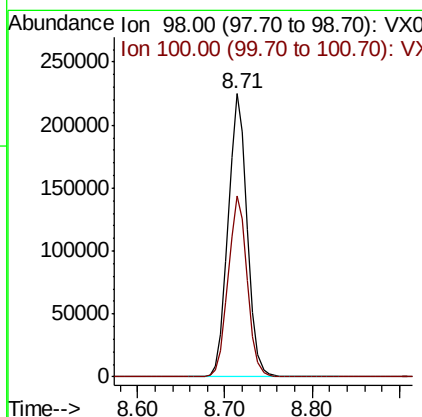
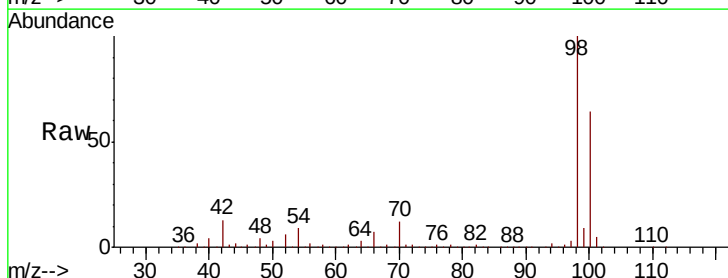
Instrument :
 MSVOA_X
 ClientSampled :
 S36-0151

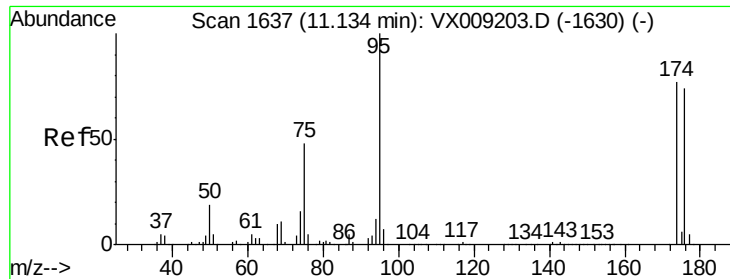
Tot Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 700.0 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.572 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion: 98 Resp: 339464
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.2 76.8

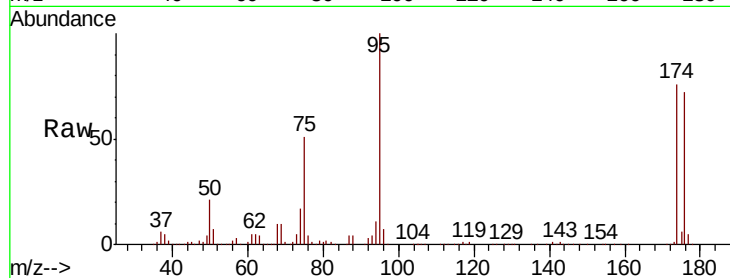




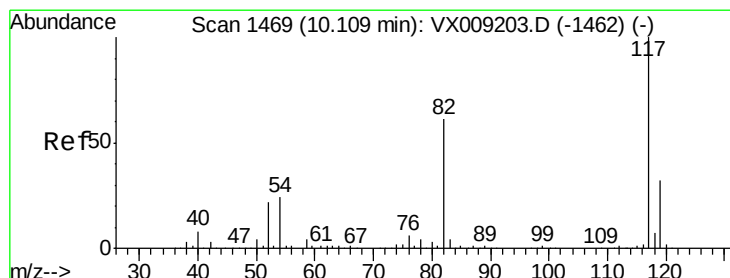
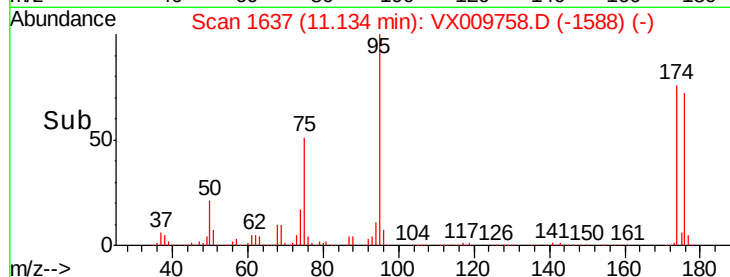
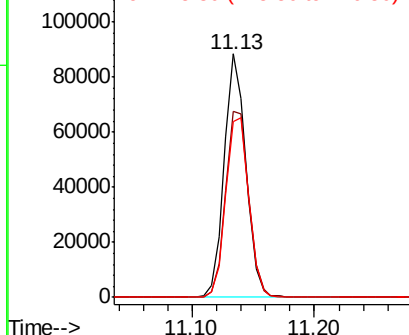
#62
4-Bromofluorobenzene
Concen: 43.647 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
S36-0151

Tot Ion: 95 Resp: 108606
Ion Ratio Lower Upper
95 100
174 81.2 0.0 161.6
176 78.2 0.0 159.2

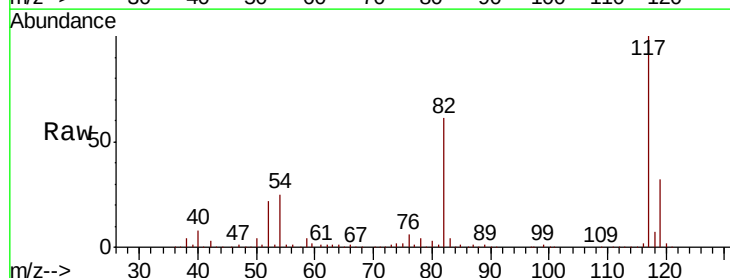


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

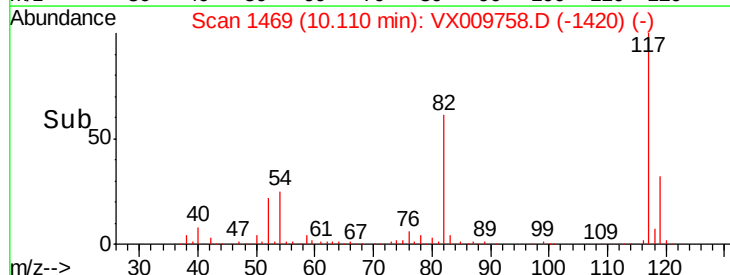
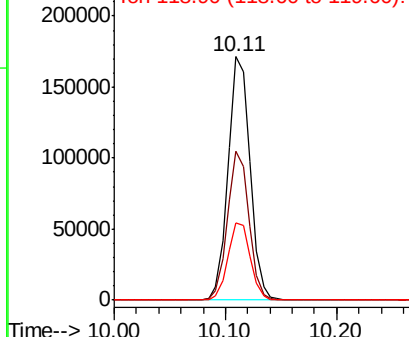


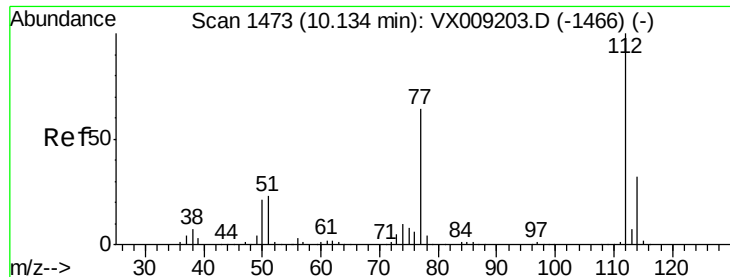
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

Tgt Ion: 117 Resp: 233382
Ion Ratio Lower Upper
117 100
82 60.9 48.8 73.2
119 31.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

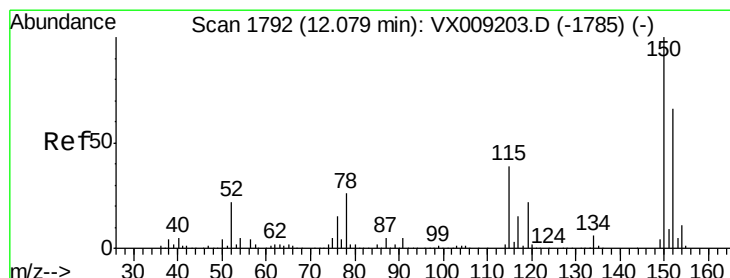
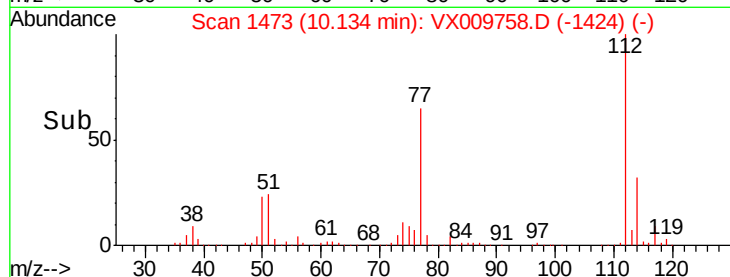
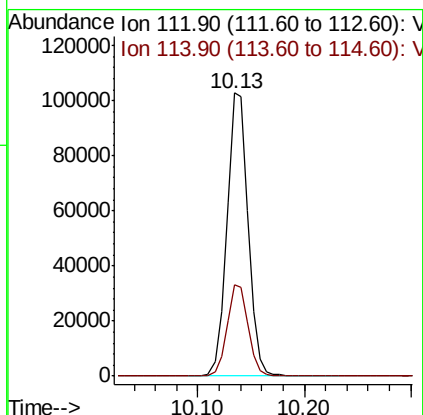
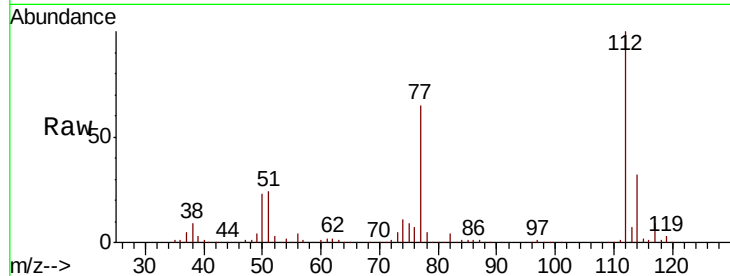




#65
Chlorobenzene
Concen: 30.607 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

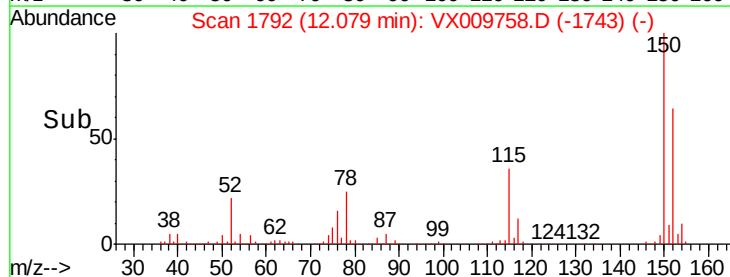
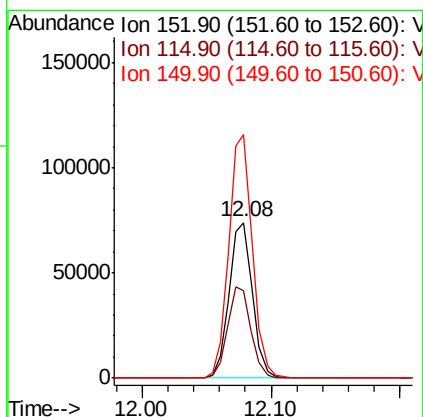
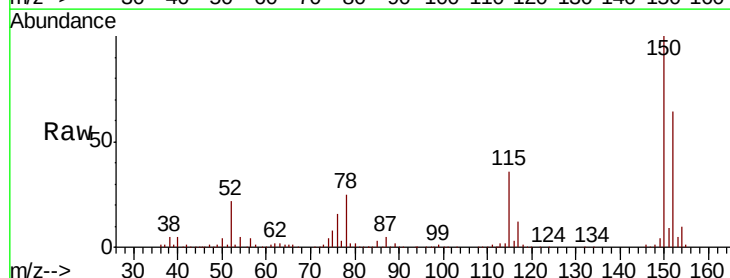
Instrument :
MSVOA_X
ClientSampleId :
S36-0151

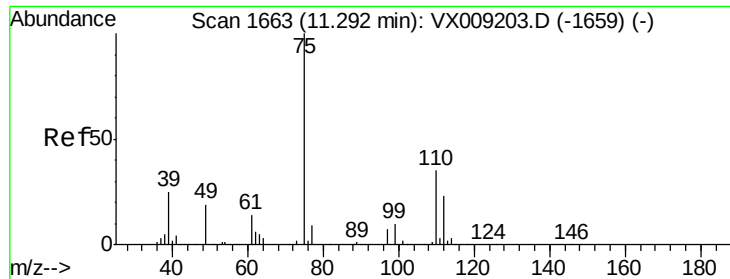
Tot Ion:112 Resp: 142893
Ion Ratio Lower Upper
112 100
114 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009758.D
Acq: 21 May 2019 19:18

Tgt Ion:152 Resp: 94136
Ion Ratio Lower Upper
152 100
115 58.9 41.2 123.6
150 157.2 0.0 346.4

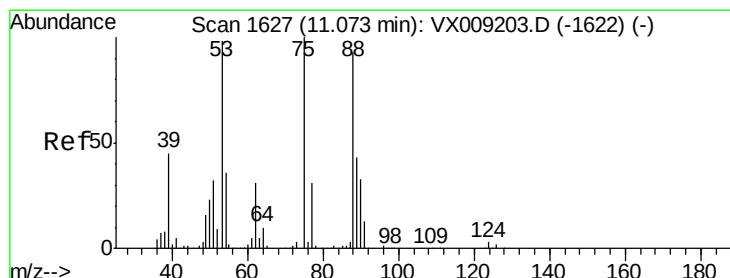
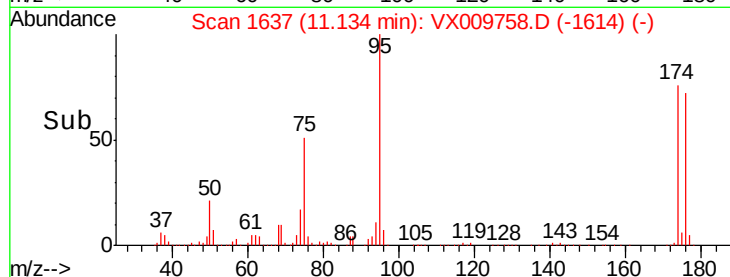
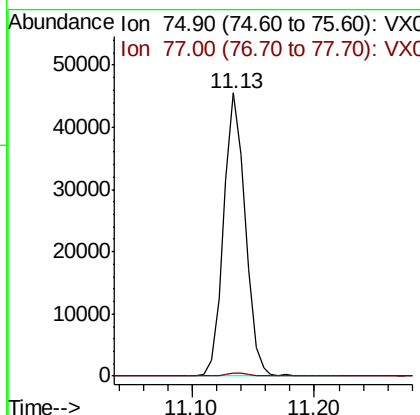
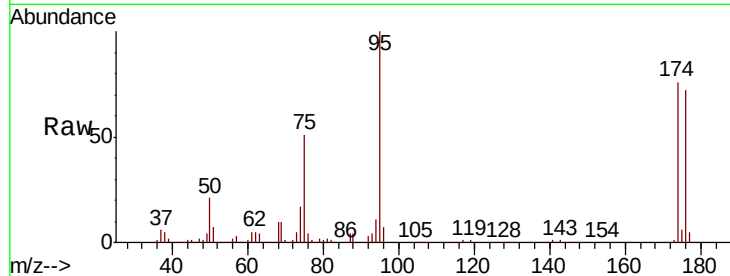




#76
 1,2,3-Trichloropropane
 Concen: 25.541 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

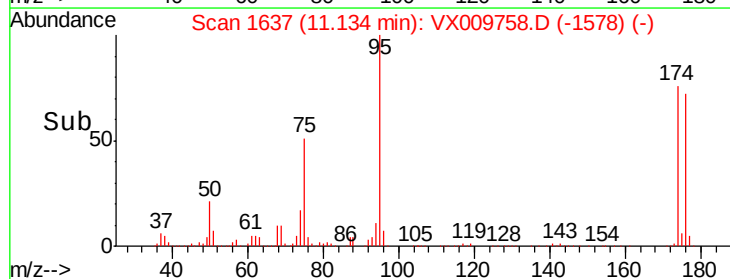
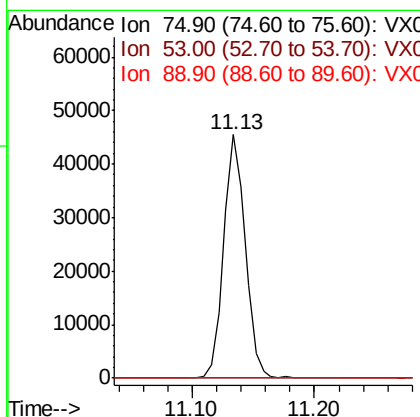
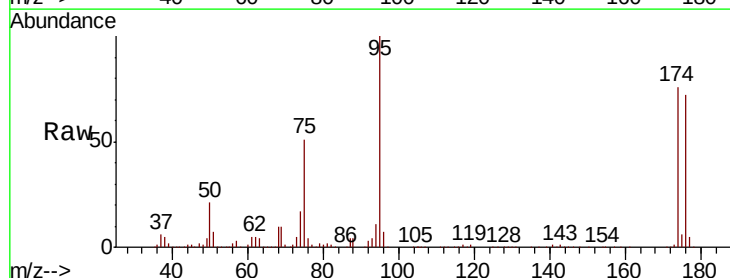
Instrument :
 MSVOA_X
 ClientSampled :
 S36-0151

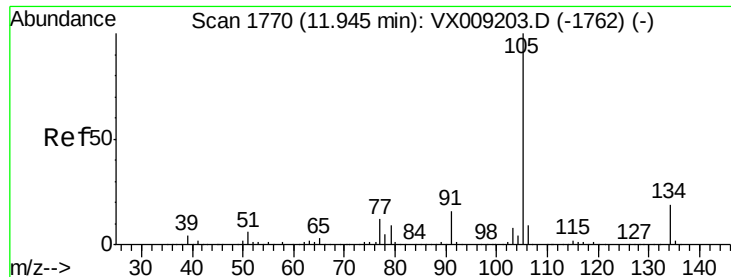
Tot Ion: 75 Resp: 55771
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.349 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion: 75 Resp: 55771
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#





#85

sec-Butylbenzene

Concen: 0.254 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampled :

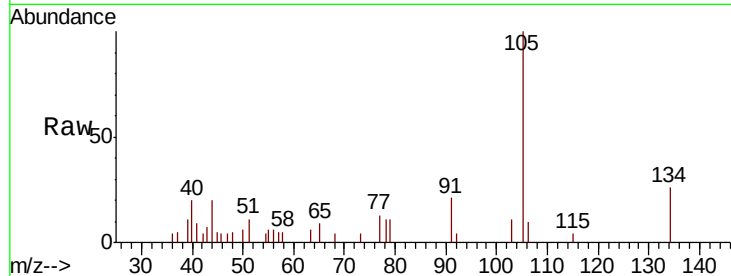
S36-0151

Tot Ion:105 Resp: 1688

Ion Ratio Lower Upper

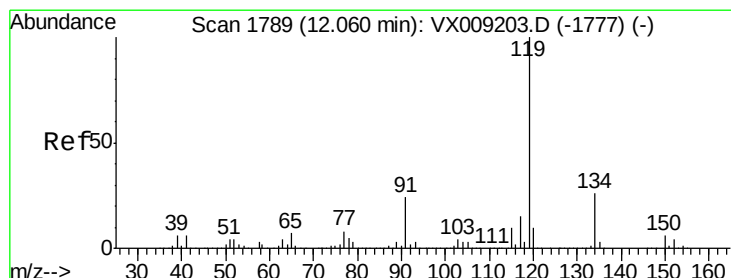
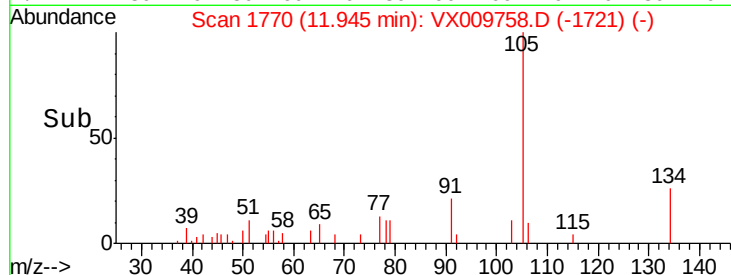
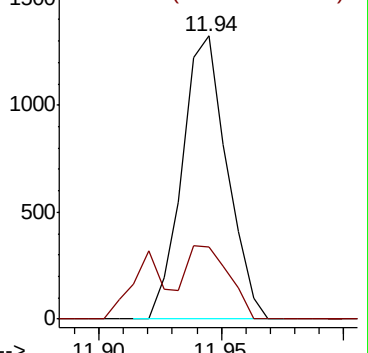
105 100

134 23.5 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.208 ug/l

RT: 12.23 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

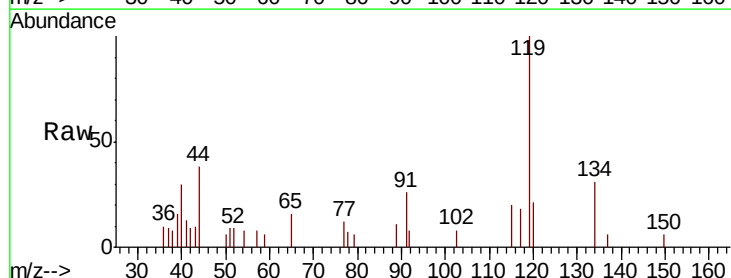
Tgt Ion:119 Resp: 1242

Ion Ratio Lower Upper

119 100

134 27.9 12.9 38.7

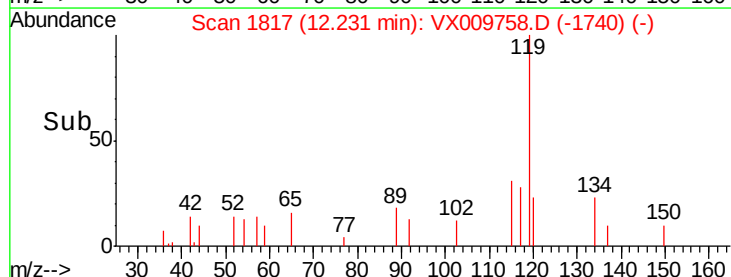
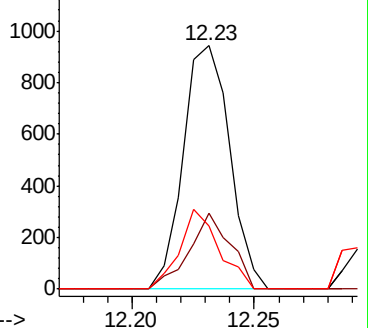
91 27.9 11.8 35.4

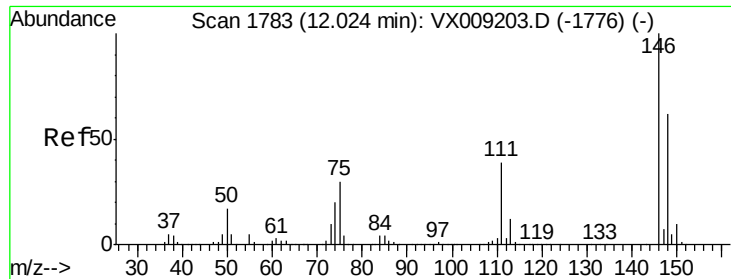


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

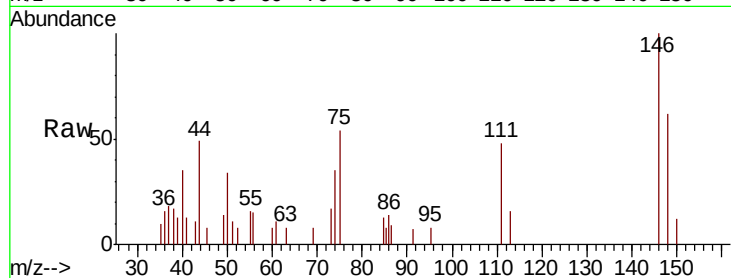




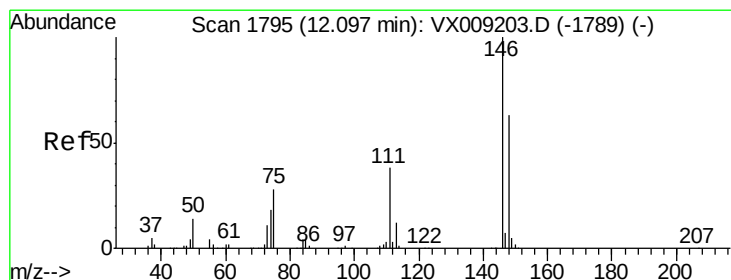
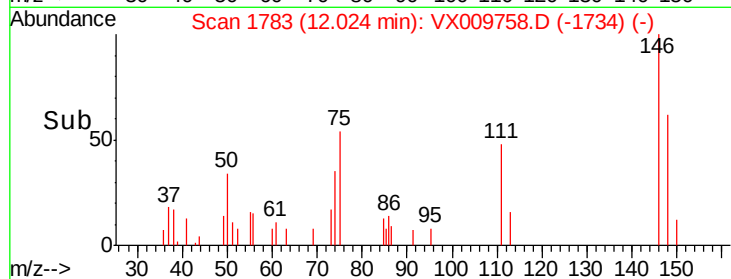
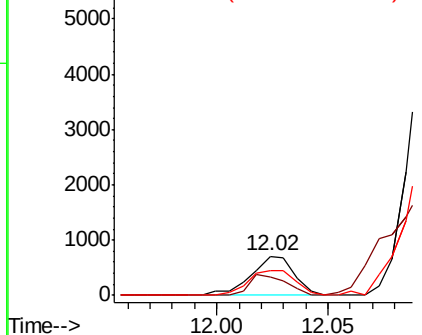
#87
 1,3-Dichlorobenzene
 Concen: 0.316 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0151

Tot Ion:146 Resp: 957
 Ion Ratio Lower Upper
 146 100
 111 44.2 20.0 59.9
 148 70.2 31.8 95.3

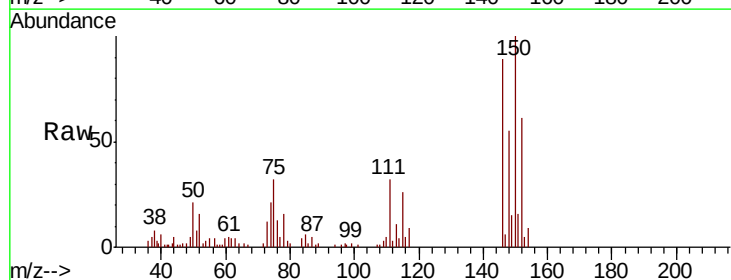


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

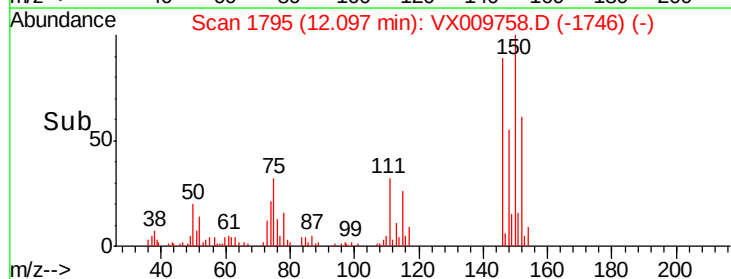
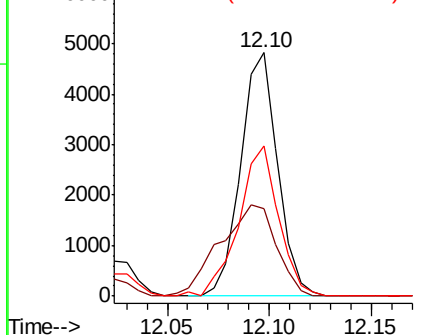


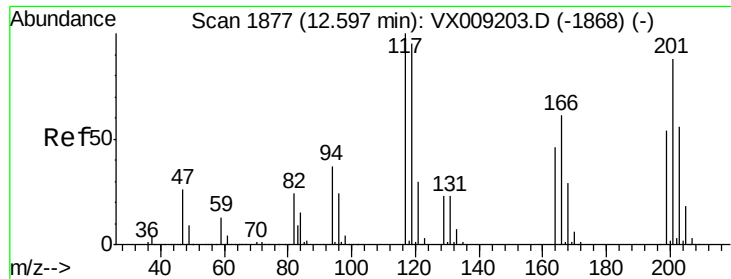
#88
 1,4-Dichlorobenzene
 Concen: 1.988 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX009758.D
 Acq: 21 May 2019 19:18

Tgt Ion:146 Resp: 6072
 Ion Ratio Lower Upper
 146 100
 111 57.0 19.6 58.8
 148 66.7 31.8 95.3



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: 0.368 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX009758.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

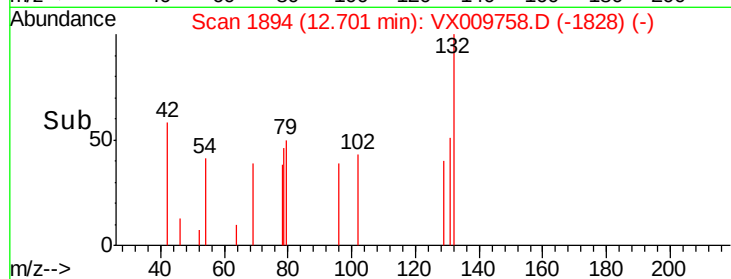
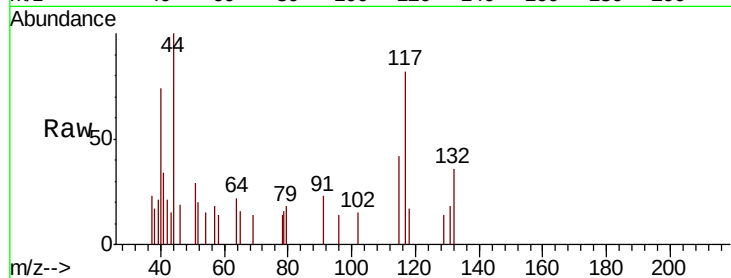
S36-0151

Tot Ion:117 Resp: 375

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

