

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010719\
 Data File : VX006934.D
 Acq On : 07 Jan 2019 14:35
 Operator : JC/MD
 Sample : PB116189ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:33:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	619228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	958876	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	899132	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	434983	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	323101	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	5.50	113	291422	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
50) Toluene-d8	8.71	98	1155770	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	408326	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	

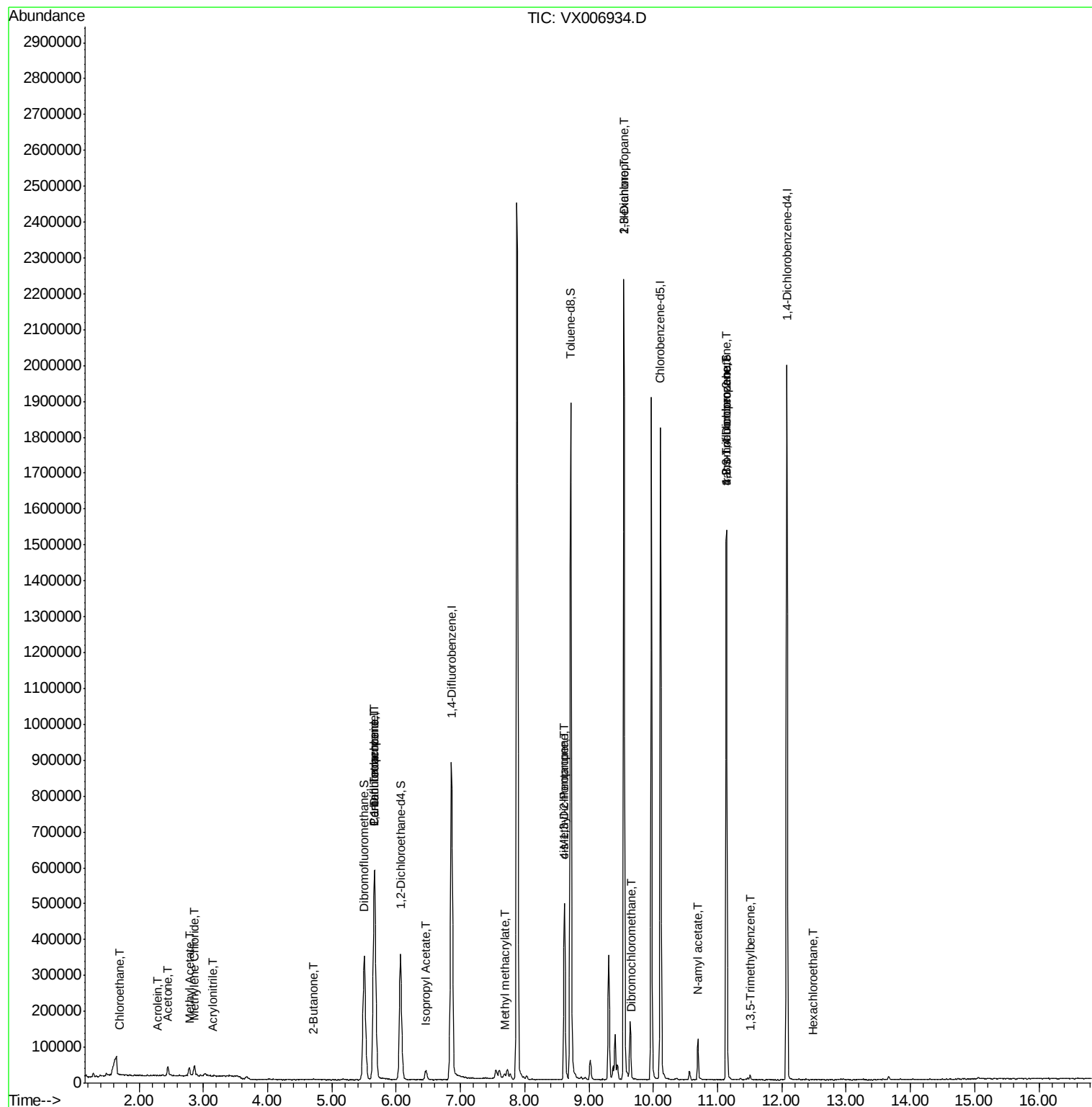
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1998	Below Cal	#	55
6) Chloroethane	1.70	64	965	0.219	ug/l #	42
13) Acrolein	2.29	56	818	0.814	ug/l #	66
15) Acrylonitrile	3.15	53	697	0.211	ug/l #	60
16) Acetone	2.45	43	28726	9.369	ug/l	94
18) Methyl Acetate	2.78	43	30257	3.356	ug/l	96
20) Methylene Chloride	2.85	84	14278	2.252	ug/l	93
25) 2-Butanone	4.70	43	4750	1.101	ug/l #	72
28) Bromochloromethane	5.02	49	245	Below Cal	#	1
36) 1,1-Dichloropropene	5.67	75	39667	4.995	ug/l #	44
38) Carbon Tetrachloride	5.67	117	57980	7.512	ug/l #	15
43) Isopropyl Acetate	6.46	43	32283	2.567	ug/l	97
48) Methyl methacrylate	7.69	41	16543	2.587	ug/l #	12
49) 1,4-Dioxane	7.73	88	102	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	168384	21.042	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	85462	10.123	ug/l #	59
57) 1,3-Dichloropropane	9.54	76	20023	1.950	ug/l #	45
59) 2-Hexanone	9.54	43	251431	41.065	ug/l #	51
60) Dibromochloromethane	9.66	129	35	2.329	ug/l	62
74) N-amyl acetate	10.69	43	25840	2.426	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	195316	24.161	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	4972	0.203	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.13	75	195316	71.538	ug/l #	10
90) Hexachloroethane	12.49	117	60	3.307	ug/l	63

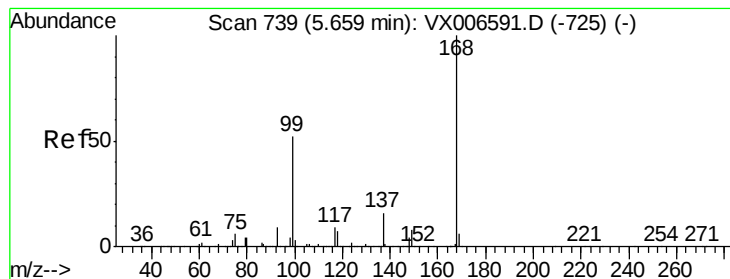
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

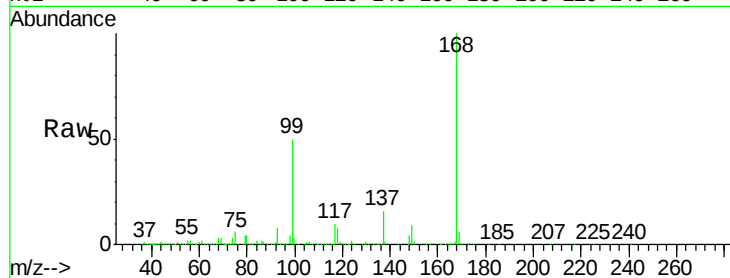
ClientSampled :

Tot Ion:168 Resp: 619228

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

5.67

250000

200000

150000

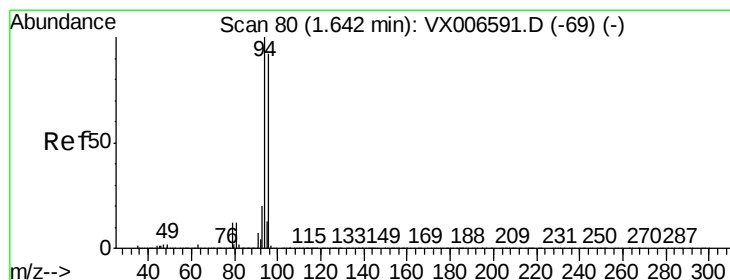
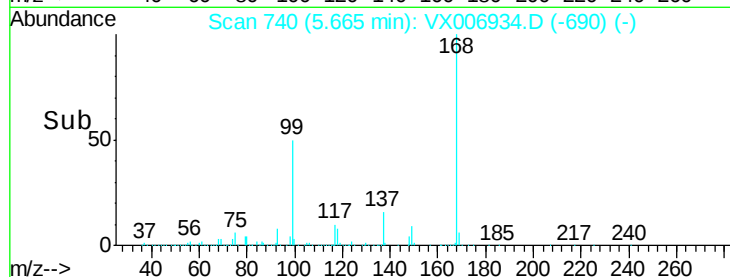
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006934.D

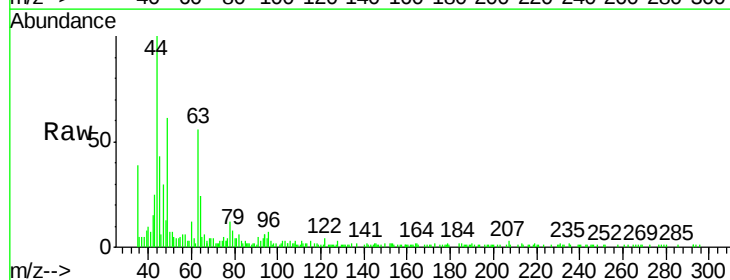
Acq: 07 Jan 2019 14:35

Tgt Ion: 94 Resp: 1998

Ion Ratio Lower Upper

94 100

96 48.9 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

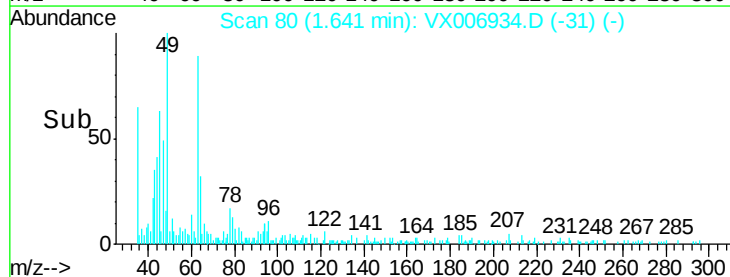
400

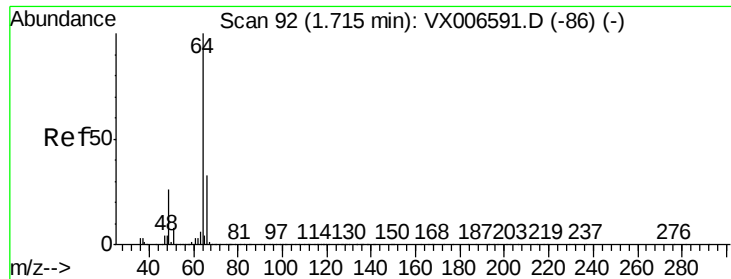
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.219 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

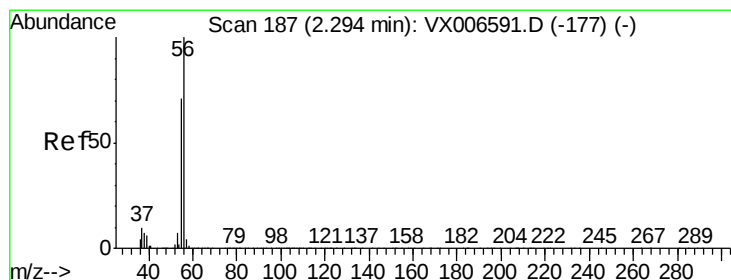
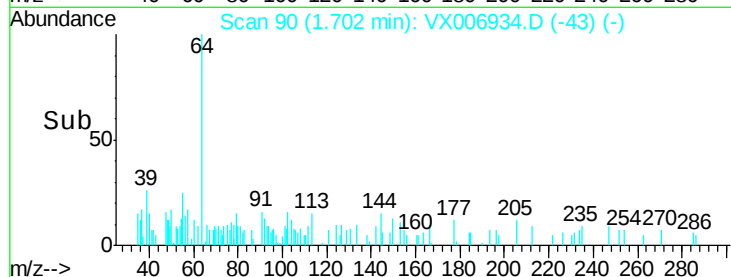
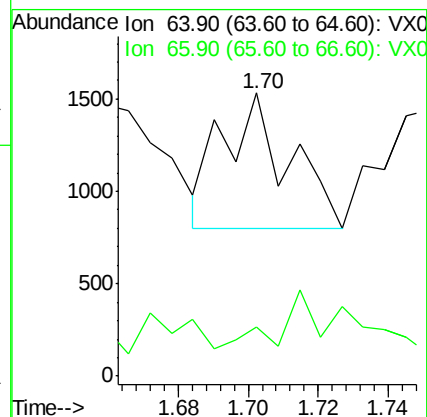
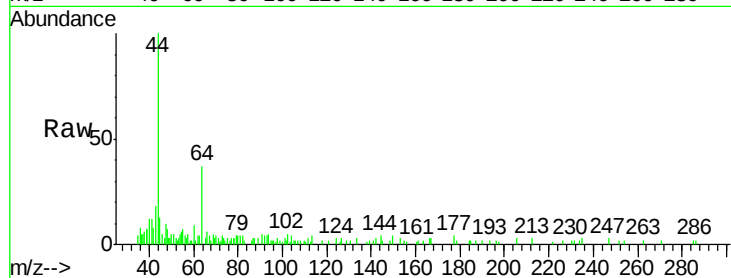
ClientSampleId :

Tot Ion: 64 Resp: 965

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



#13

Acrolein

Concen: 0.814 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006934.D

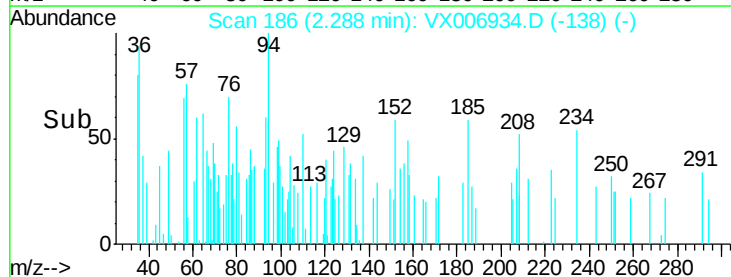
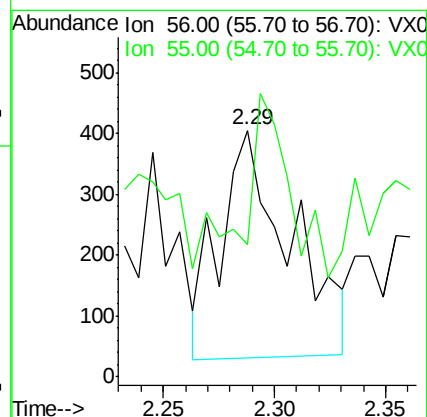
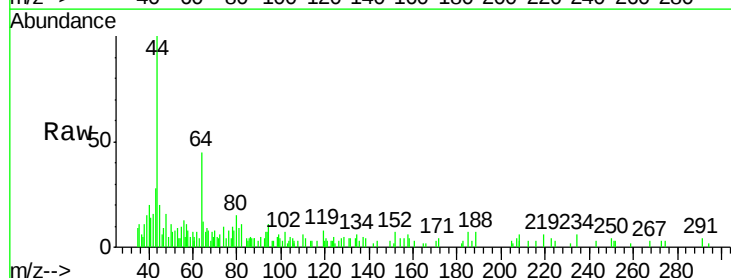
Acq: 07 Jan 2019 14:35

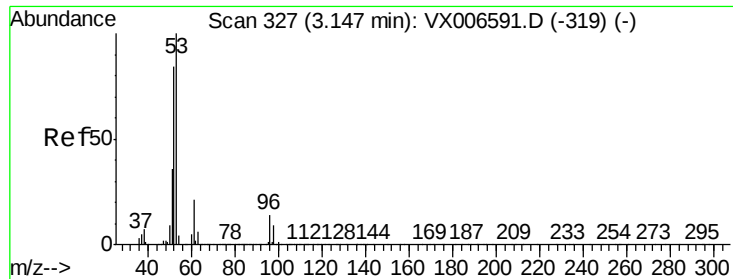
Tgt Ion: 56 Resp: 818

Ion Ratio Lower Upper

56 100

55 44.6 58.2 87.4#





#15

Acrylonitrile

Concen: 0.211 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

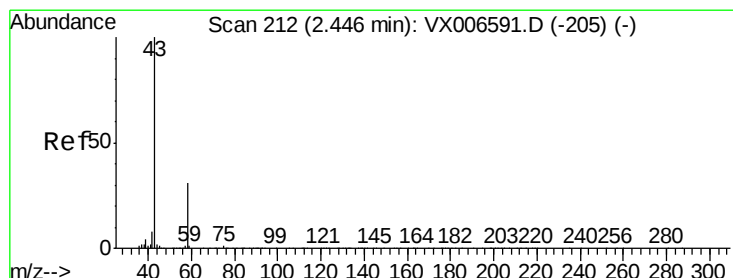
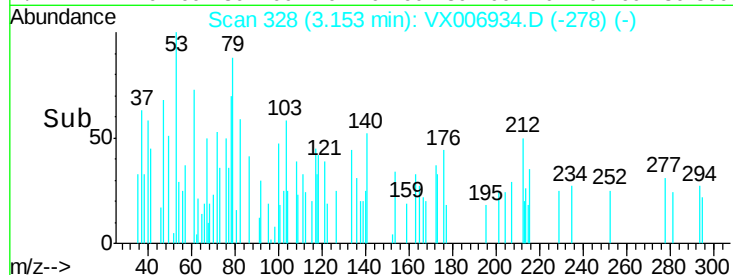
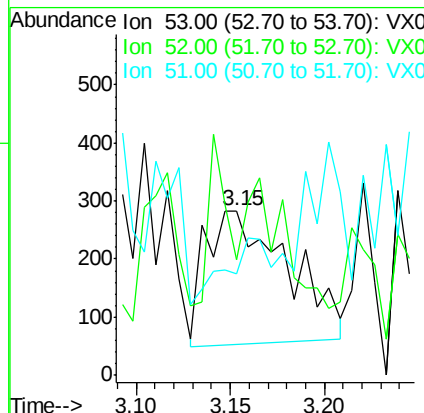
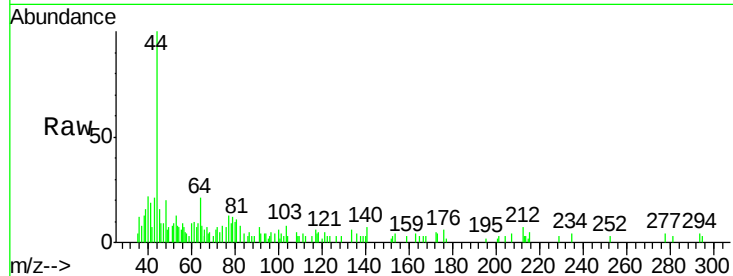
Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 53 Resp: 697

Ion	Ratio	Lower	Upper
53	100		
52	43.3	66.0	99.0#
51	18.1	28.6	42.8#



#16

Acetone

Concen: 9.369 ug/l

RT: 2.45 min Scan# 212

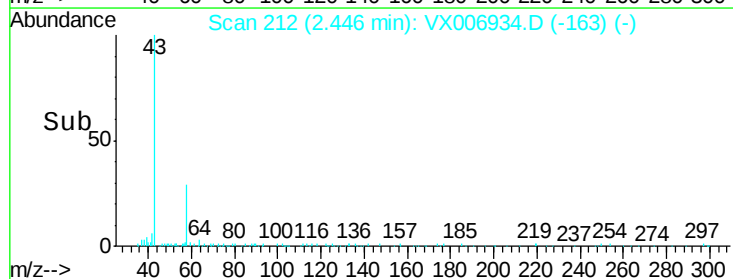
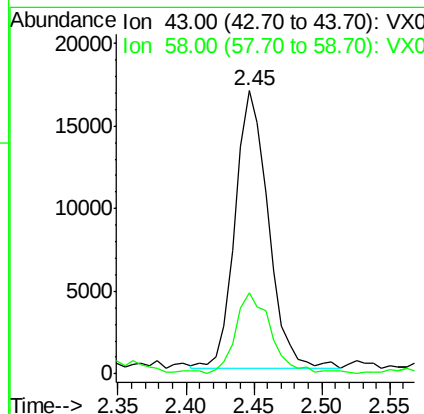
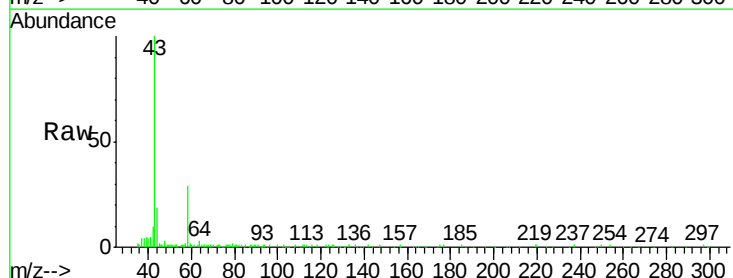
Delta R.T. -0.00 min

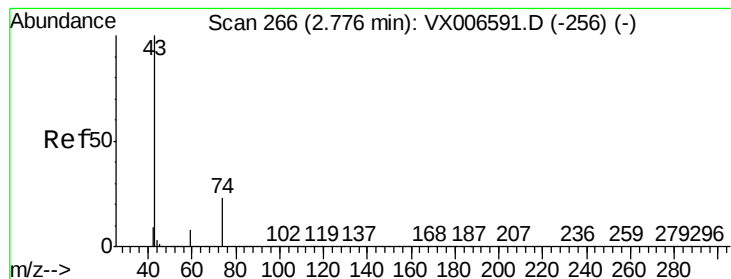
Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Tgt Ion: 43 Resp: 28726

Ion	Ratio	Lower	Upper
43	100		
58	28.2	25.0	37.6





#18

Methyl Acetate

Concen: 3.356 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

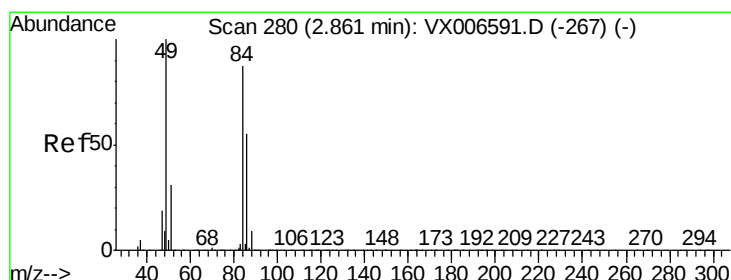
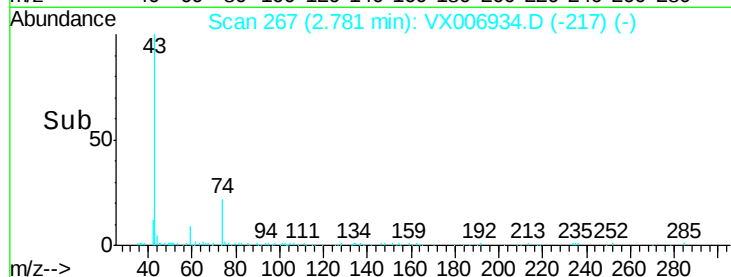
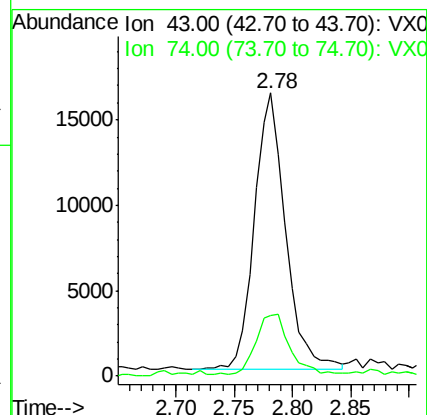
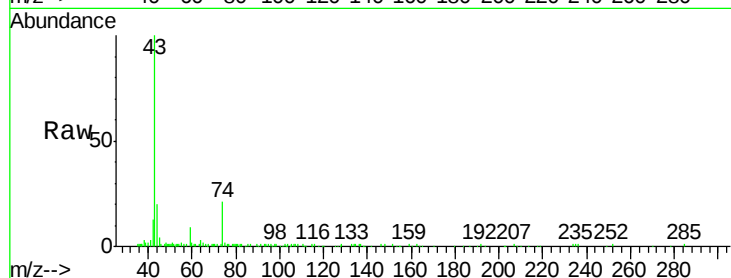
ClientSampleId :

Tot Ion: 43 Resp: 30257

Ion Ratio Lower Upper

43 100

74 25.4 18.6 28.0



#20

Methylene Chloride

Concen: 2.252 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Tgt Ion: 84 Resp: 14278

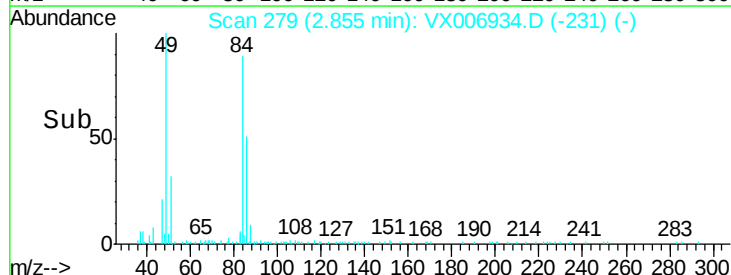
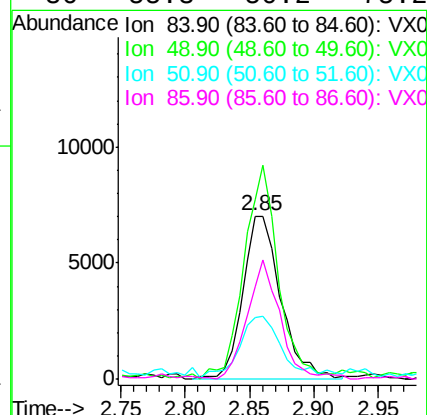
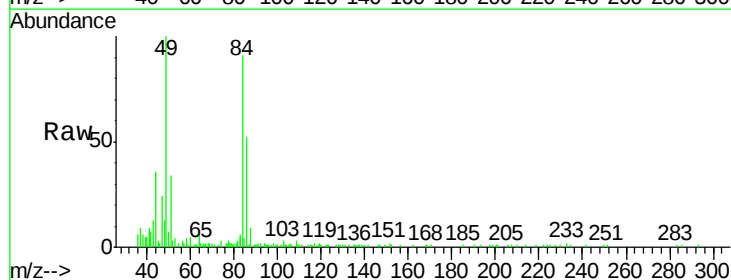
Ion Ratio Lower Upper

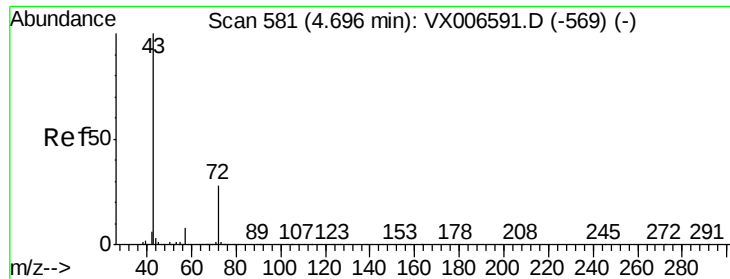
84 100

49 107.0 91.8 137.6

51 34.6 28.5 42.7

86 55.3 50.2 75.2





#25

2-Butanone

Concen: 1.101 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

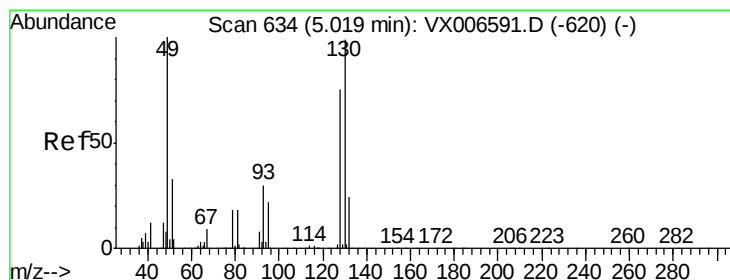
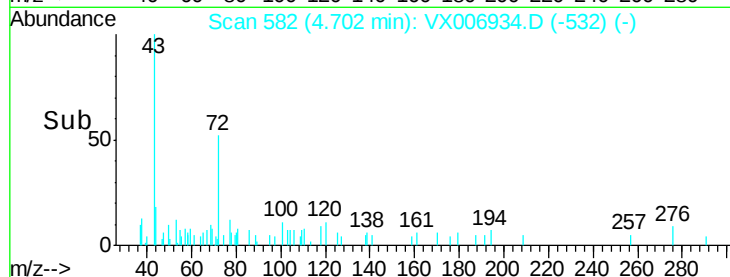
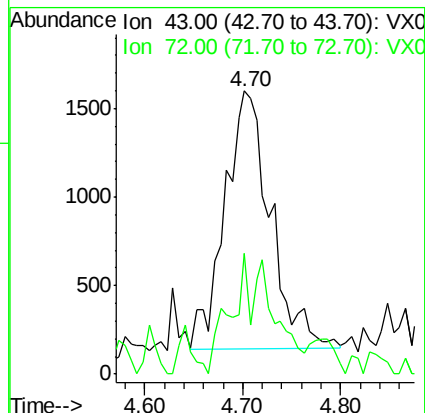
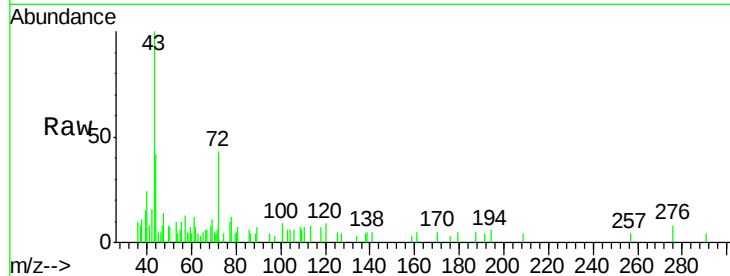
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 4750

Ion Ratio Lower Upper

43 100

72 42.6 22.4 33.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

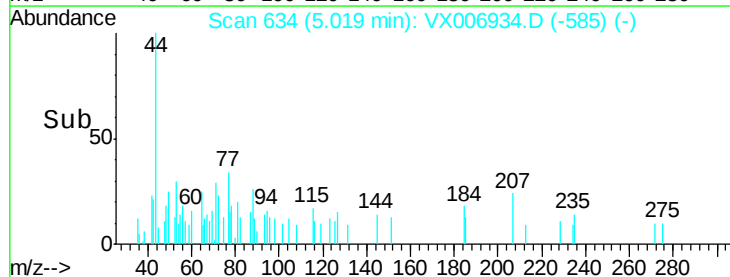
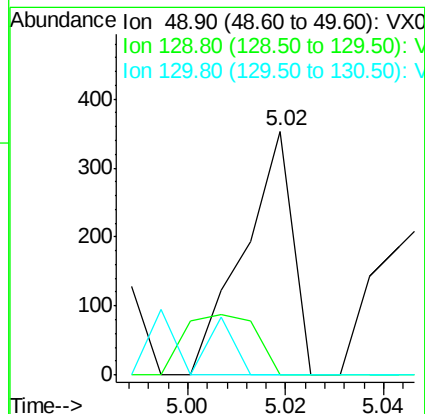
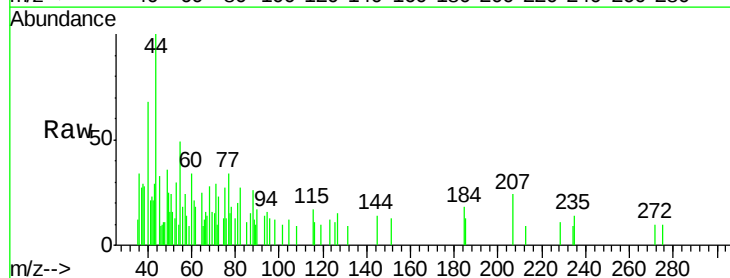
Tgt Ion: 49 Resp: 245

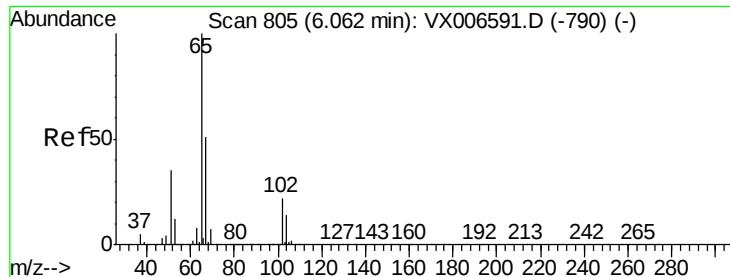
Ion Ratio Lower Upper

49 100

129 36.7 0.0 5.4#

130 0.0 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 48.414 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

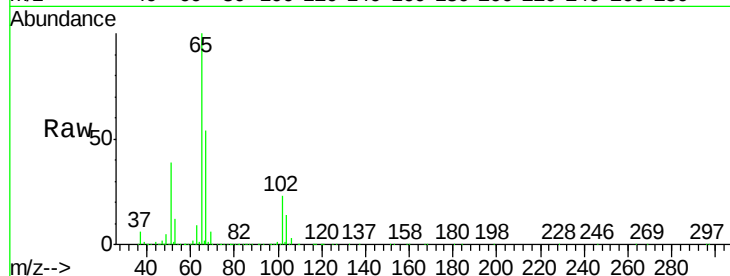
ClientSampleId :

Tot Ion: 65 Resp: 323101

Ion Ratio Lower Upper

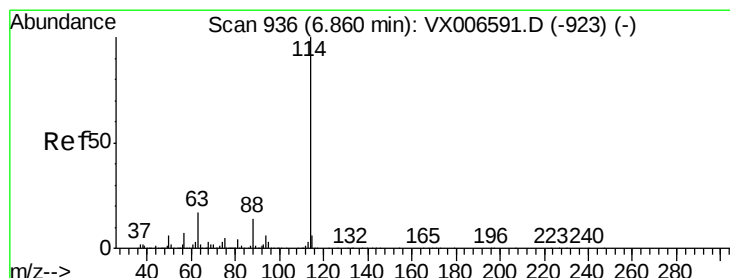
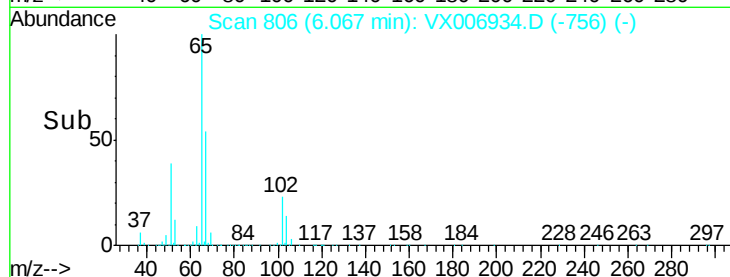
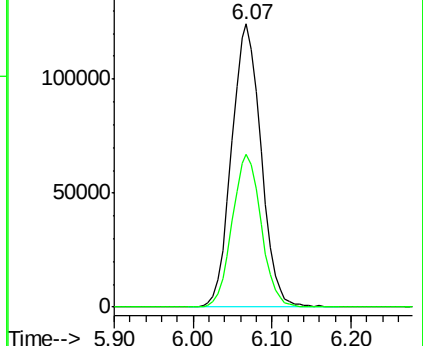
65 100

67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

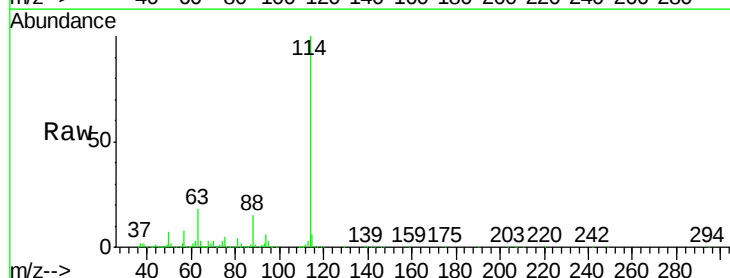
Tgt Ion: 114 Resp: 958876

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

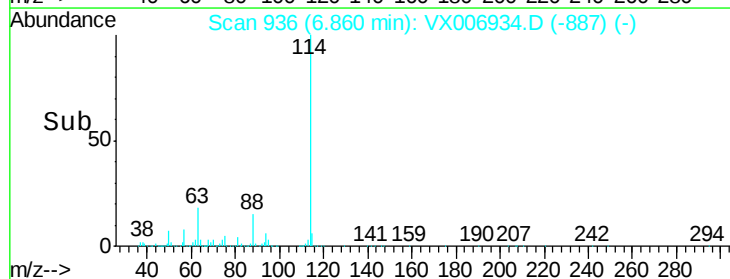
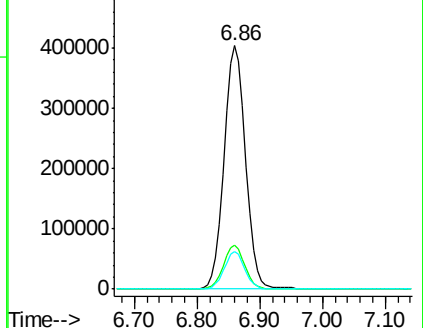
88 15.2 0.0 28.8

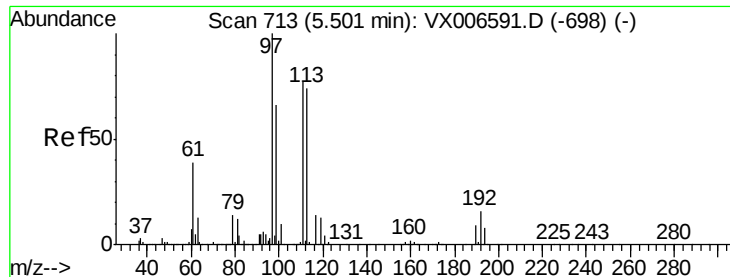


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

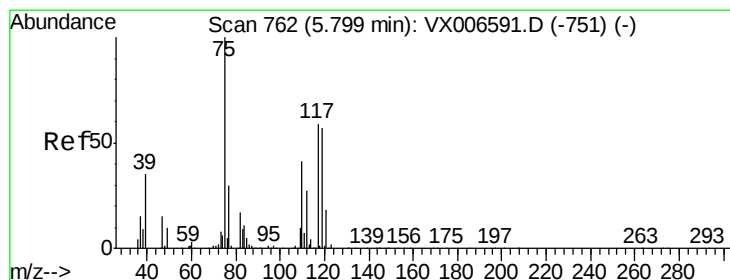
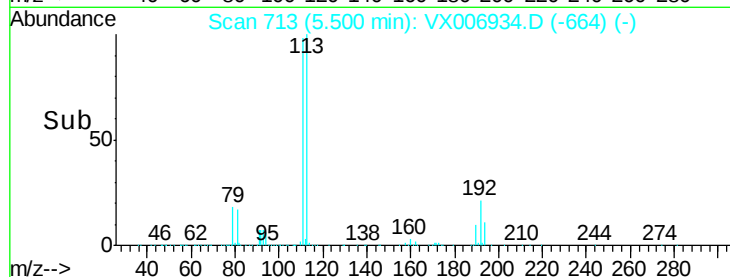
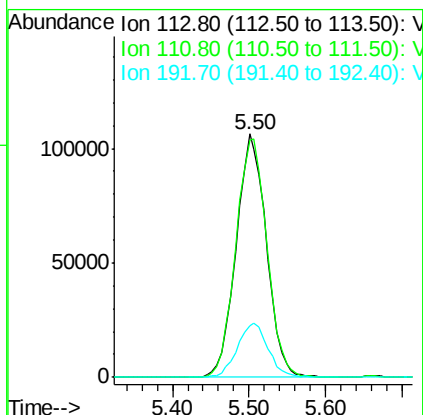
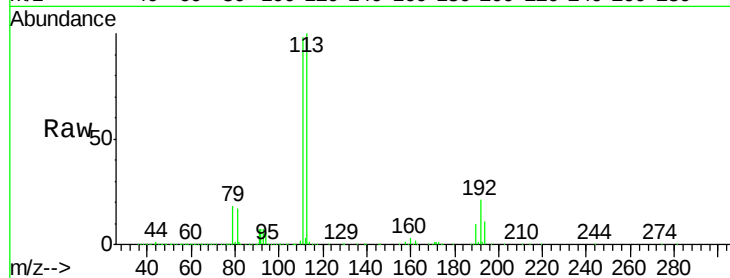




#35
 Dibromofluoromethane
 Concen: 48.060 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX006934.D
 Acq: 07 Jan 2019 14:35

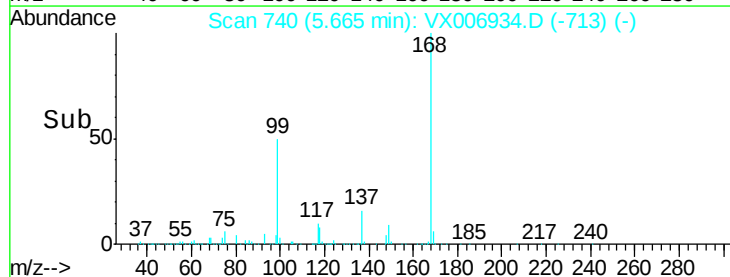
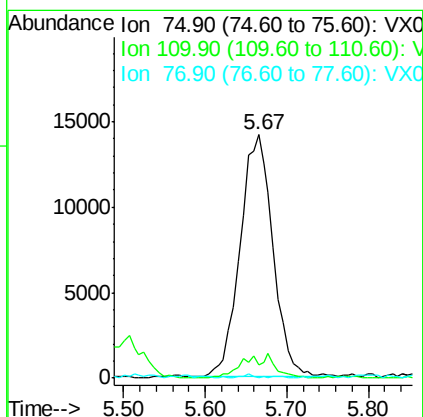
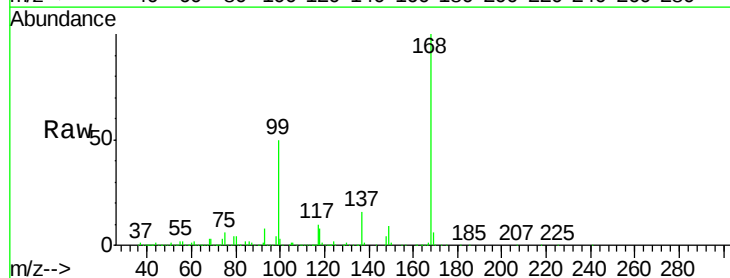
Instrument :
 MSVOA_X
 ClientSampleId :

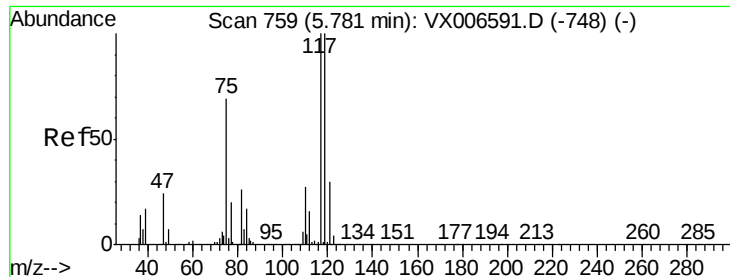
Tot Ion:113 Resp: 291422
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.6 122.4
 192 22.7 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.995 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006934.D
 Acq: 07 Jan 2019 14:35

Tgt Ion: 75 Resp: 39667
 Ion Ratio Lower Upper
 75 100
 110 5.4 20.2 60.5#
 77 0.5 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.512 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

ClientSampled :

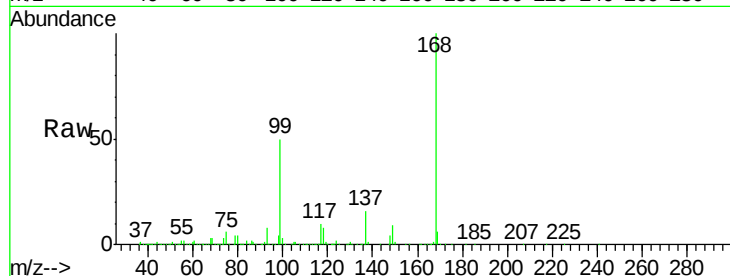
Tot Ion:117 Resp: 57980

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.2#

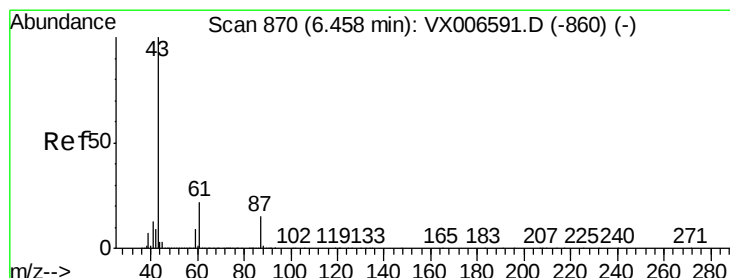
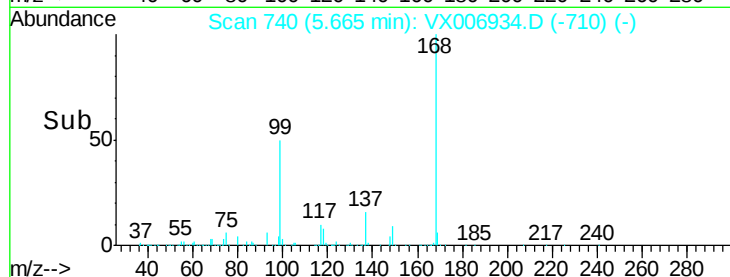
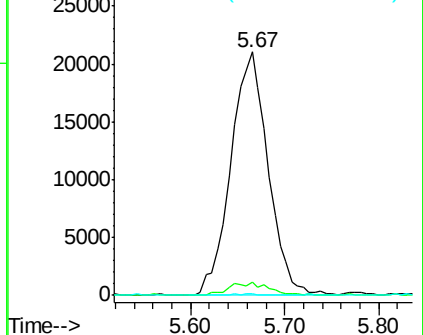
121 0.6 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 2.567 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

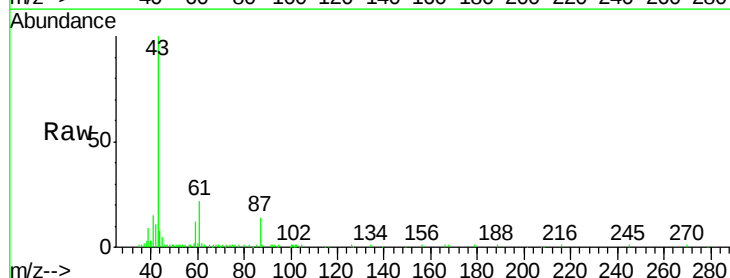
Tgt Ion: 43 Resp: 32283

Ion Ratio Lower Upper

43 100

61 22.8 16.8 25.2

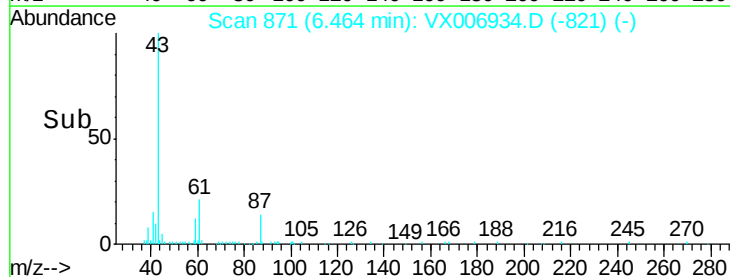
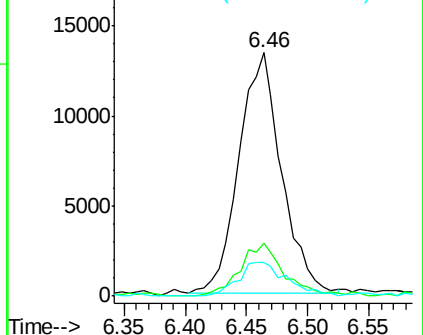
87 16.0 12.4 18.6

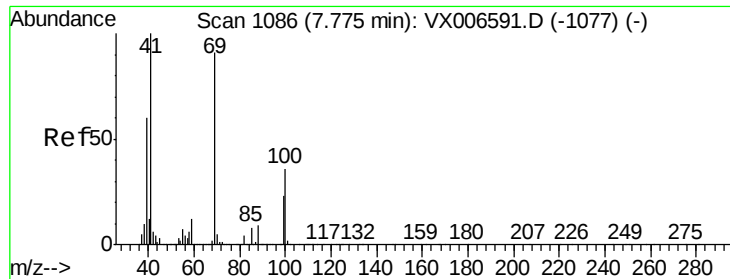


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.587 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

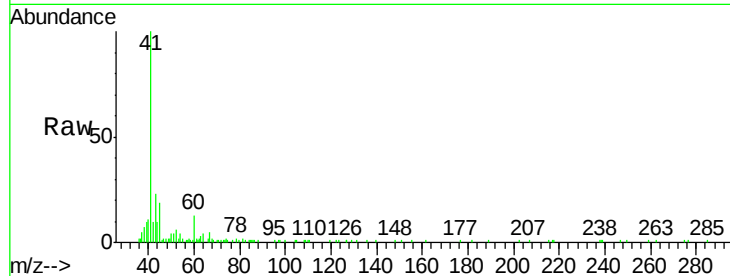
Tot Ion: 41 Resp: 16543

Ion Ratio Lower Upper

41 100

69 0.7 72.4 108.6#

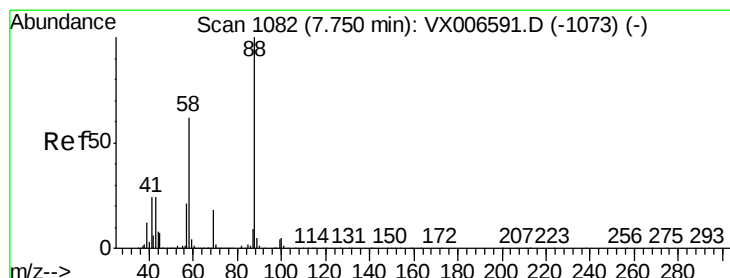
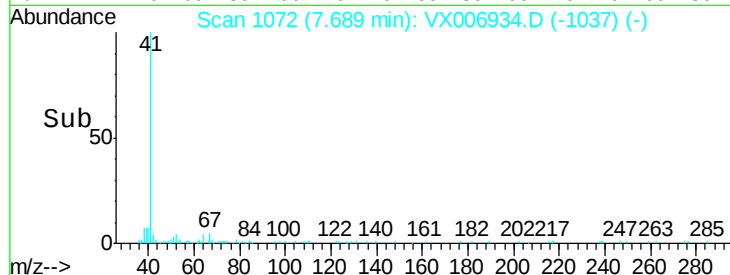
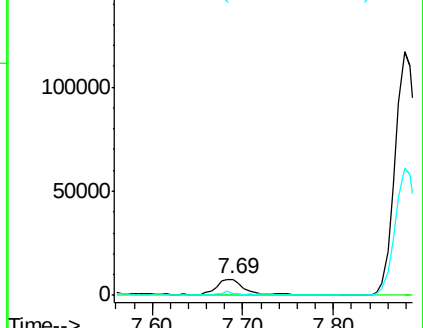
39 0.0 45.8 68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

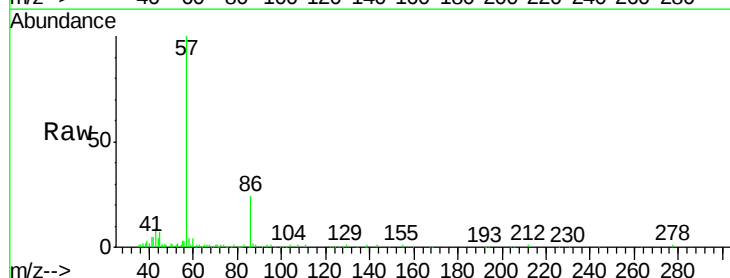
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

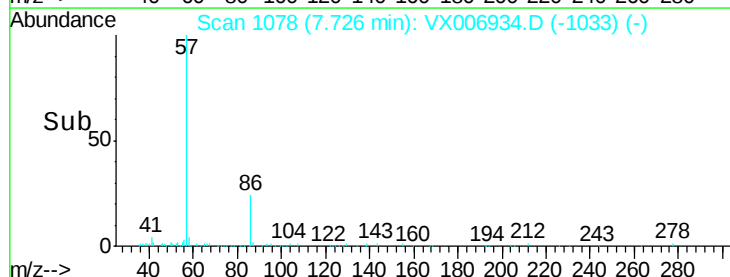
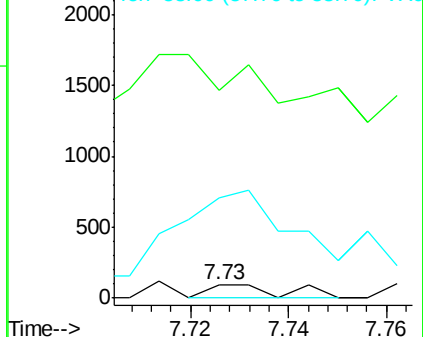
58 1688.2 51.0 76.4#

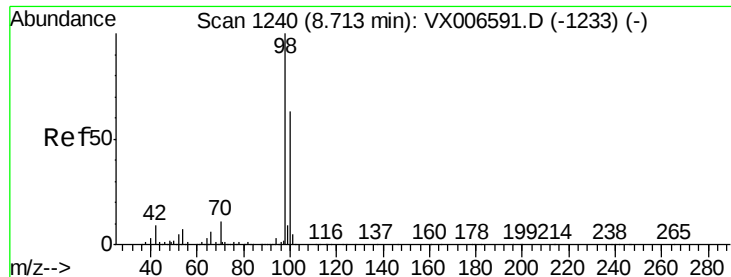


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

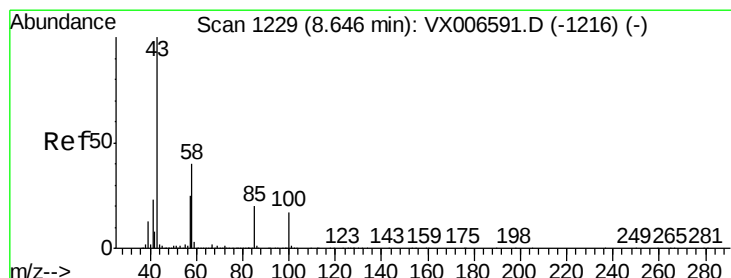
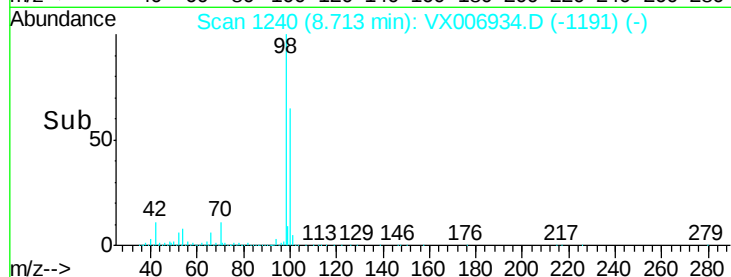
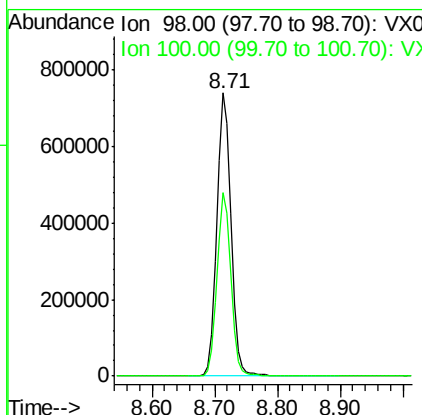
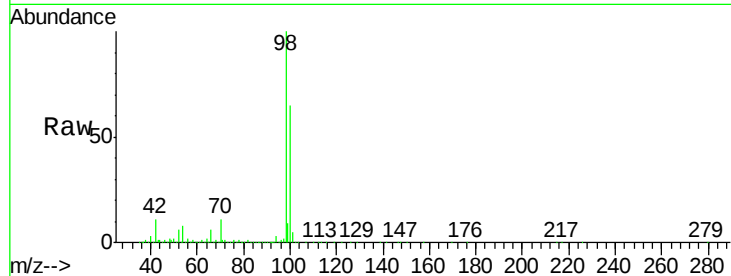




#50
Toluene-d8
Concen: 50.557 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006934.D
Acq: 07 Jan 2019 14:35

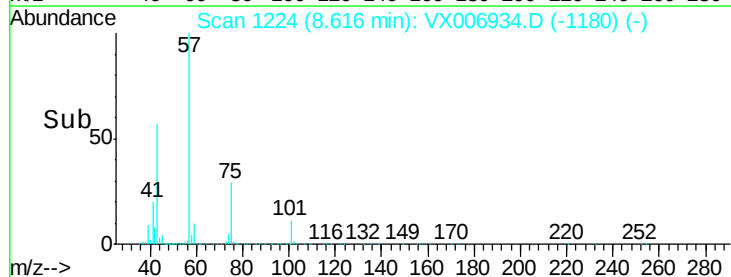
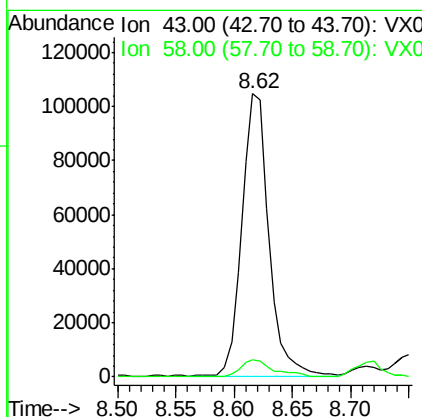
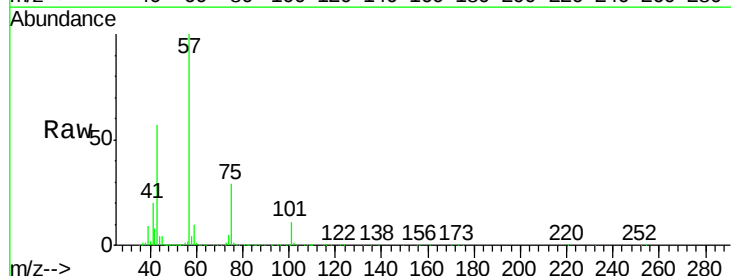
Instrument :
MSVOA_X
ClientSampleId :

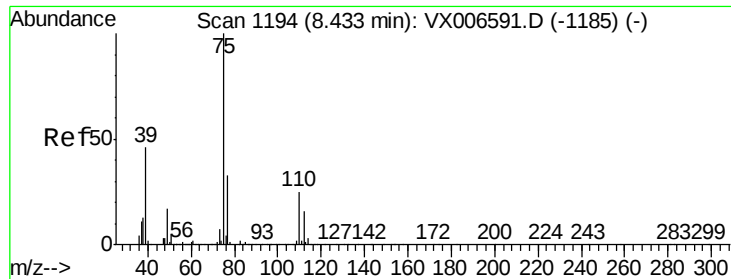
Tot Ion: 98 Resp: 1155770
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 21.042 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006934.D
Acq: 07 Jan 2019 14:35

Tgt Ion: 43 Resp: 168384
Ion Ratio Lower Upper
43 100
58 7.2 31.8 47.6#

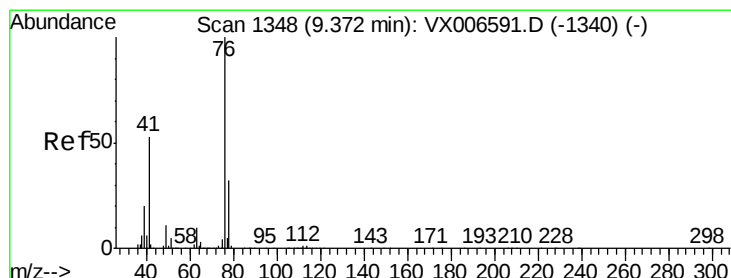
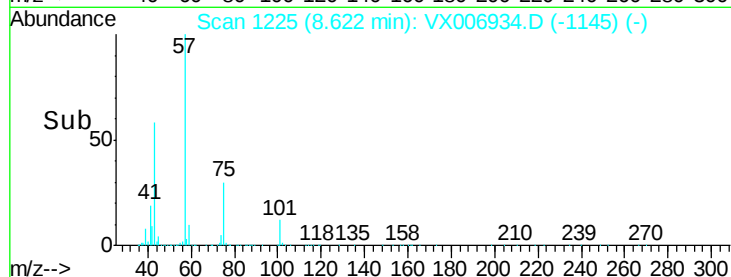
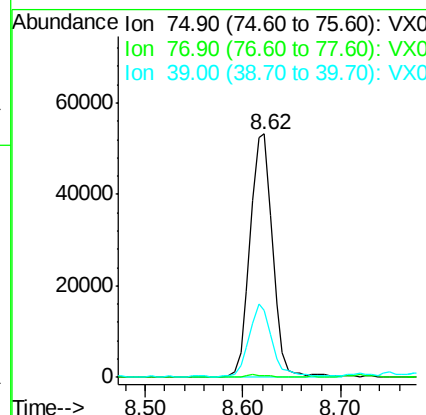
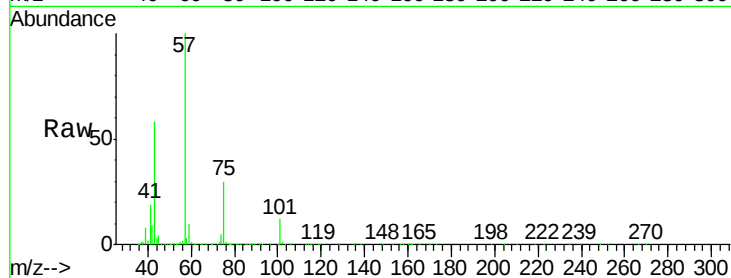




#54
 cis-1,3-Dichloropropene
 Concen: 10.123 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.19 min
 Lab File: VX006934.D
 Acq: 07 Jan 2019 14:35

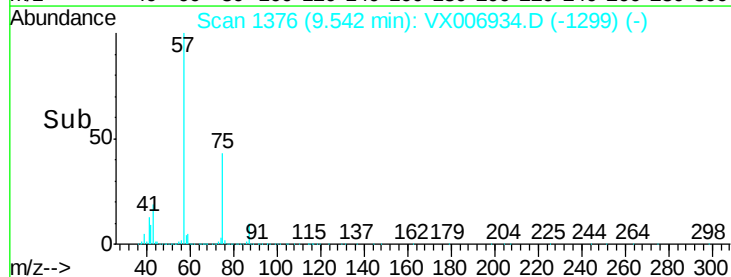
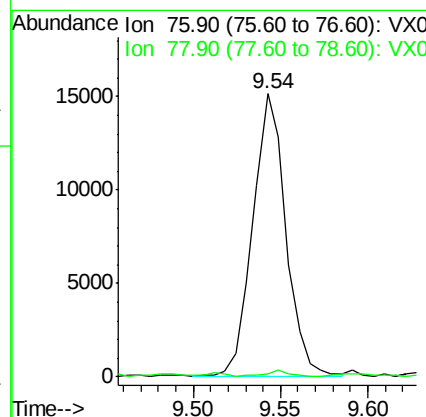
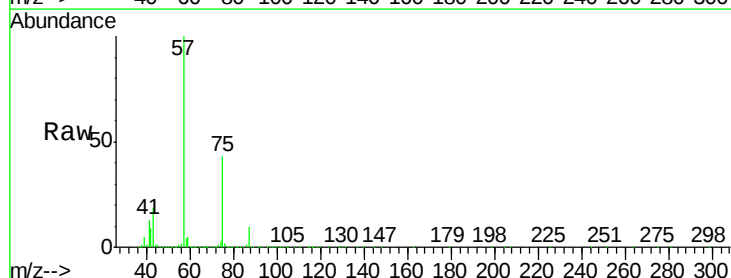
Instrument :
 MSVOA_X
 ClientSampleId :

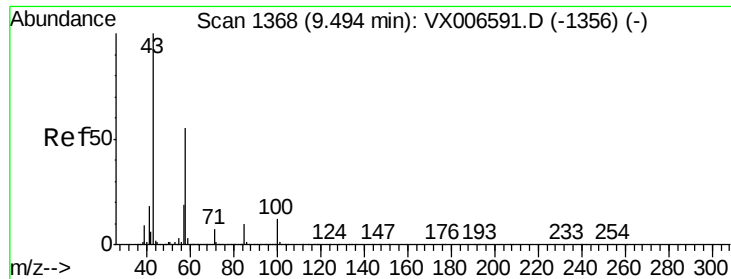
Tot Ion: 75 Resp: 85462
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.2 39.2#
 39 27.2 36.7 55.1#



#57
 1,3-Dichloropropane
 Concen: 1.950 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX006934.D
 Acq: 07 Jan 2019 14:35

Tgt Ion: 76 Resp: 20023
 Ion Ratio Lower Upper
 76 100
 78 1.7 26.0 39.0#

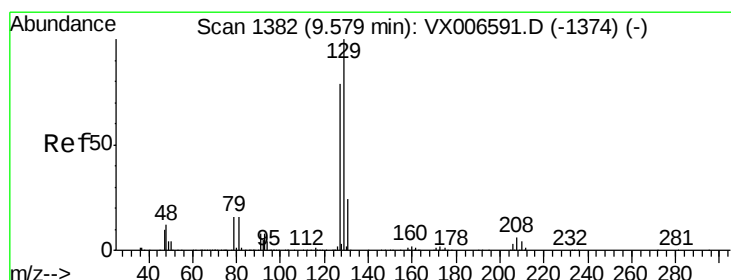
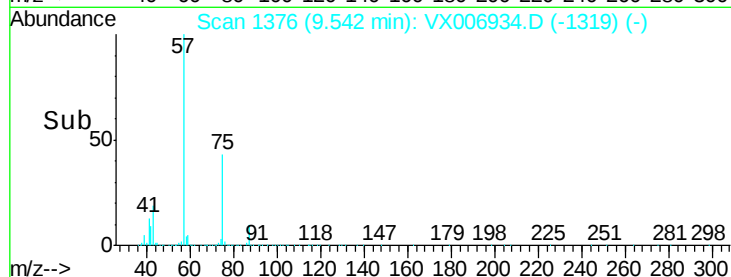
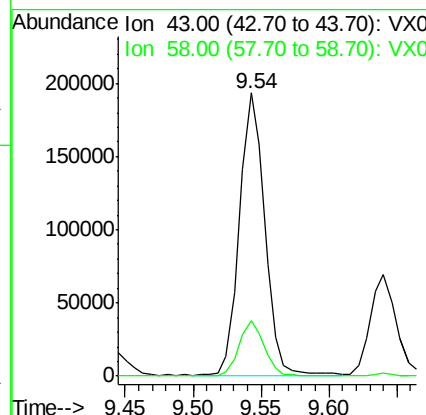
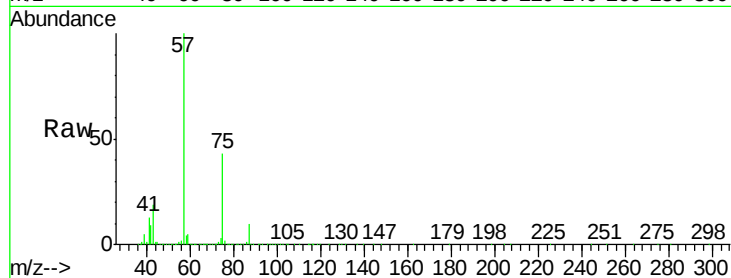




#59
2-Hexanone
Concen: 41.065 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006934.D
Acq: 07 Jan 2019 14:35

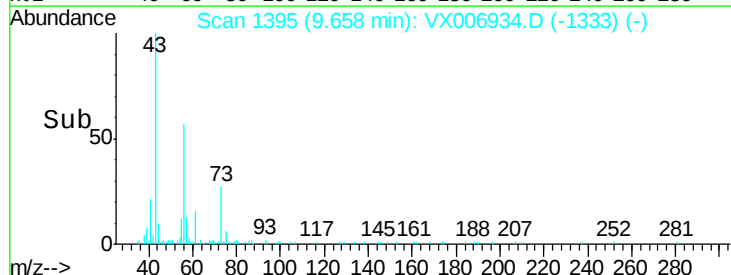
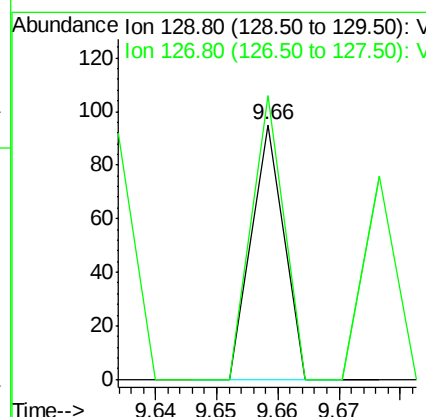
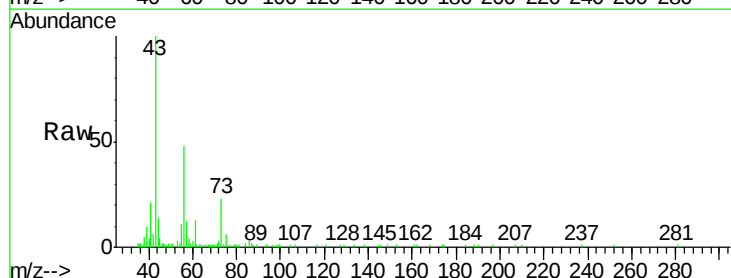
Instrument :
MSVOA_X
ClientSampleId :

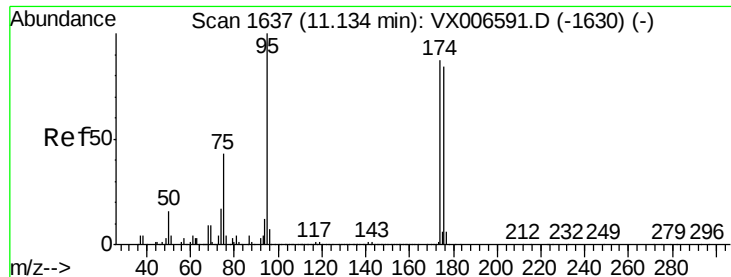
Tot Ion: 43 Resp: 251431
Ion Ratio Lower Upper
43 100
58 19.7 27.7 83.1#



#60
Dibromochloromethane
Concen: 2.329 ug/l
RT: 9.66 min Scan# 1395
Delta R.T. 0.08 min
Lab File: VX006934.D
Acq: 07 Jan 2019 14:35

Tgt Ion: 129 Resp: 35
Ion Ratio Lower Upper
129 100
127 111.4 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 48.770 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

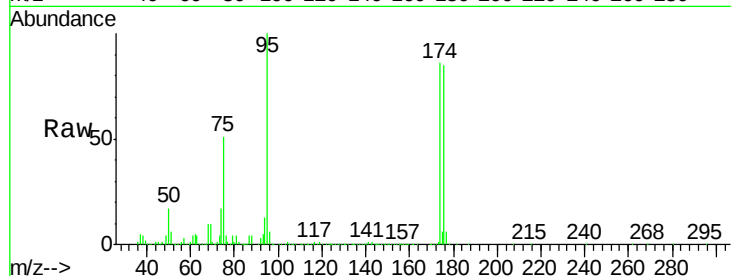
Tot Ion: 95 Resp: 408326

Ion Ratio Lower Upper

95 100

174 92.7 0.0 182.2

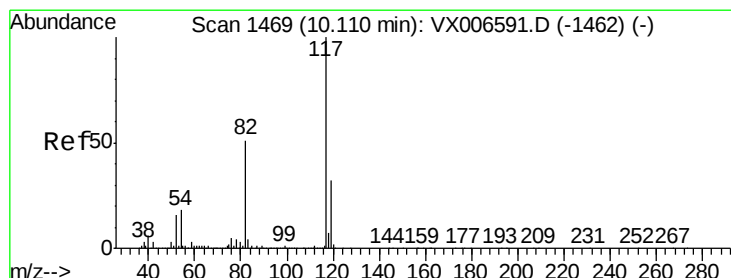
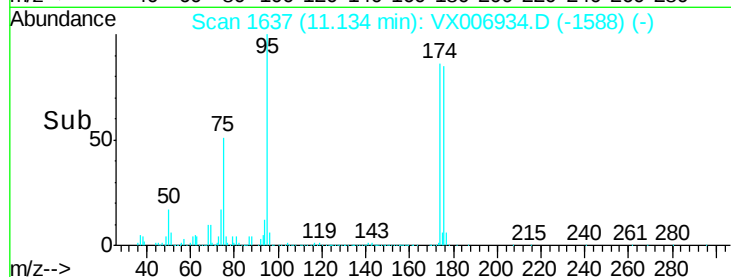
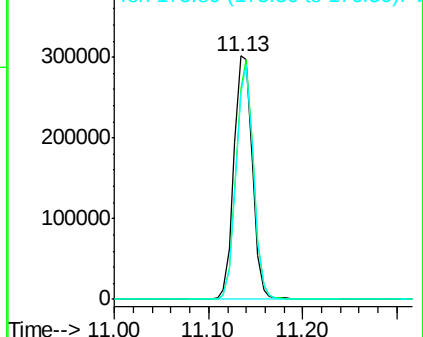
176 90.8 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006934.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006934.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006934.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

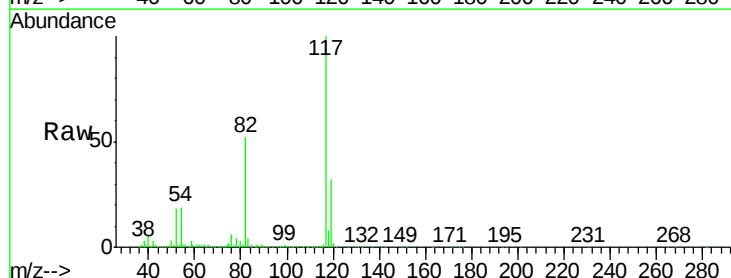
Tgt Ion: 117 Resp: 899132

Ion Ratio Lower Upper

117 100

82 52.2 41.0 61.6

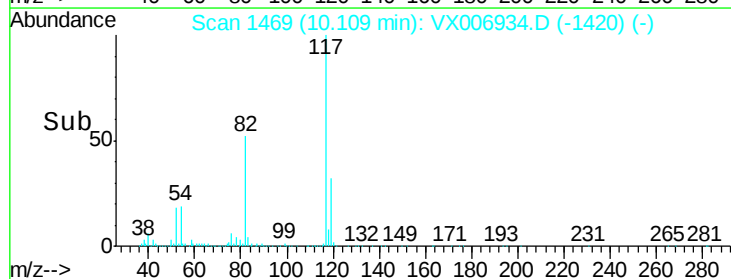
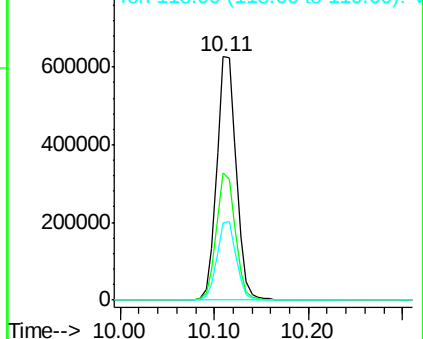
119 31.7 25.4 38.0

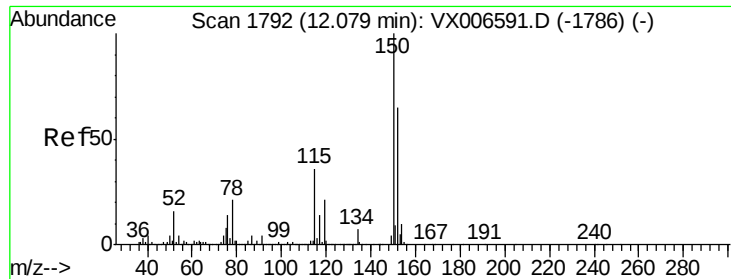


Abundance Ion 116.90 (116.60 to 117.60): VX006934.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006934.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006934.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

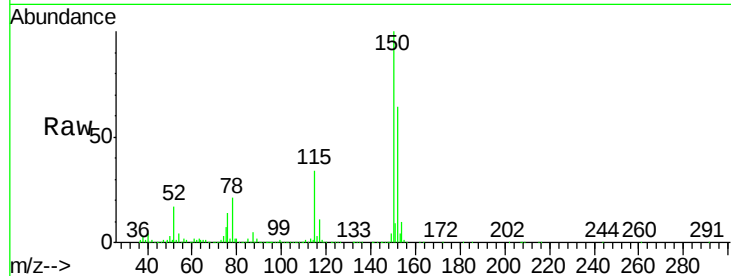
Tot Ion:152 Resp: 434983

Ion Ratio Lower Upper

152 100

115 54.7 39.1 117.2

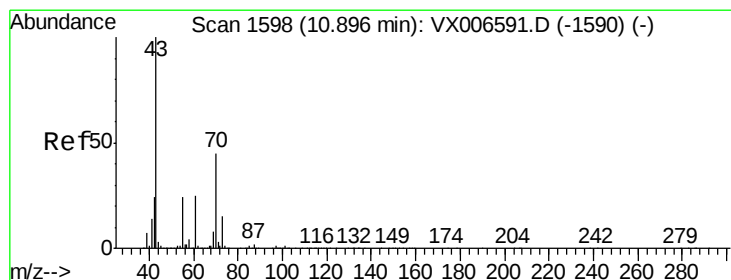
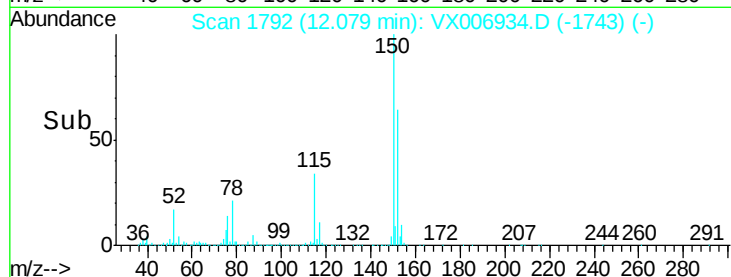
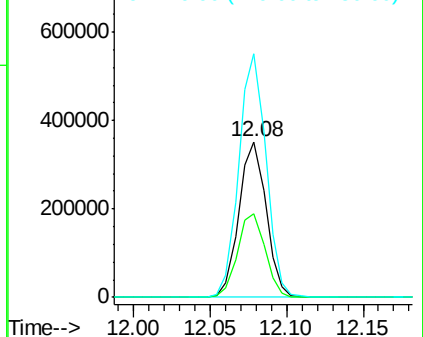
150 156.4 0.0 344.8



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



#74

N-ethyl acetate

Concen: 2.426 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Tgt Ion: 43 Resp: 25840

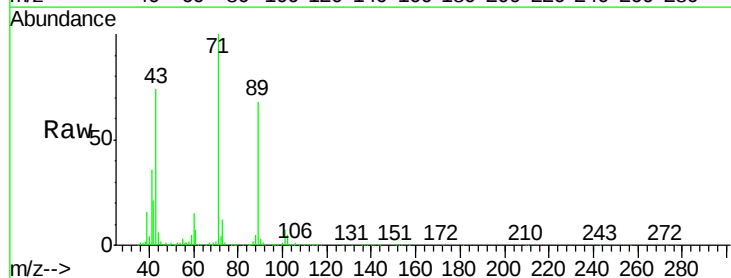
Ion Ratio Lower Upper

43 100

70 2.9 35.8 53.8#

55 4.3 19.4 29.0#

61 10.4 20.1 30.1#

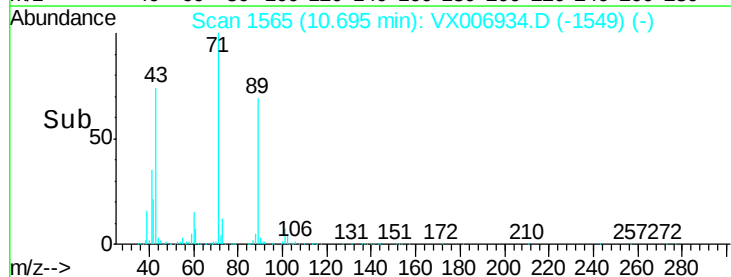
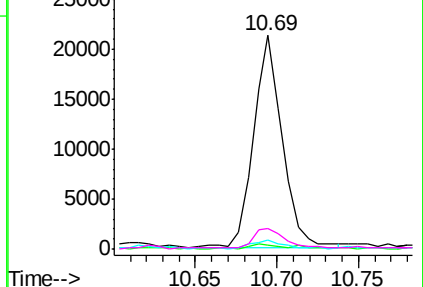


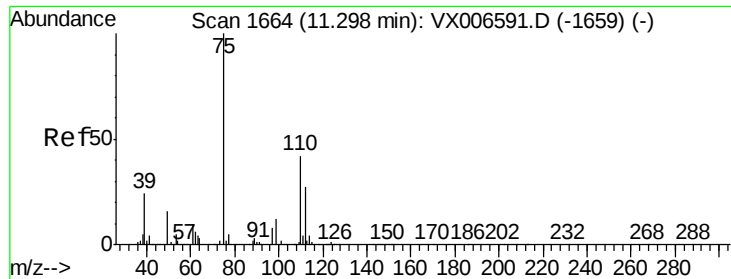
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.161 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

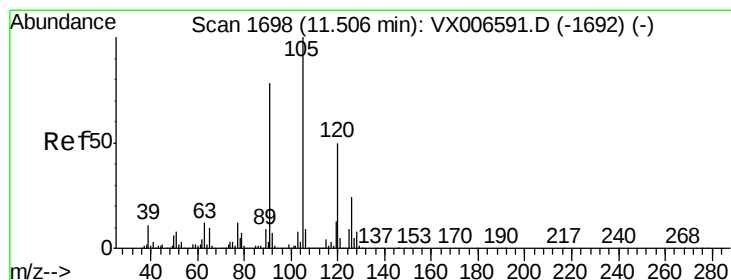
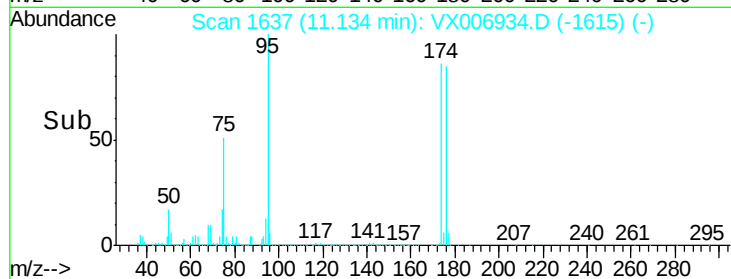
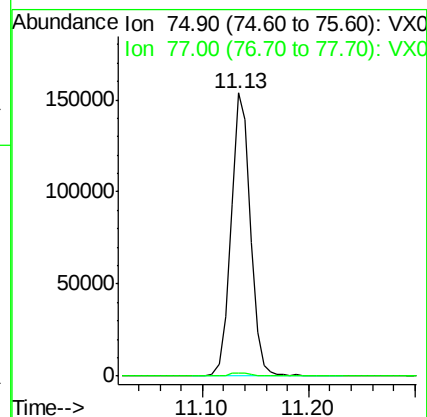
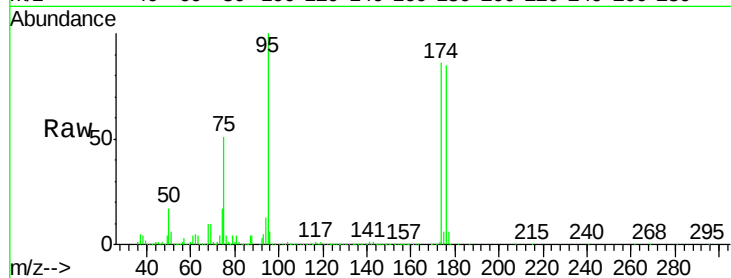
ClientSampleId :

Tot Ion: 75 Resp: 195316

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006934.D

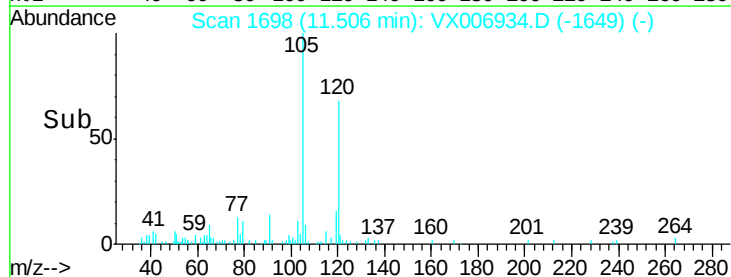
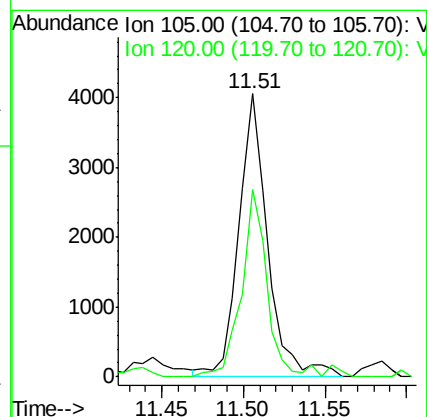
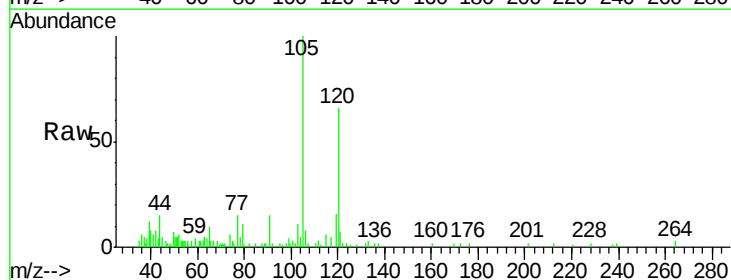
Acq: 07 Jan 2019 14:35

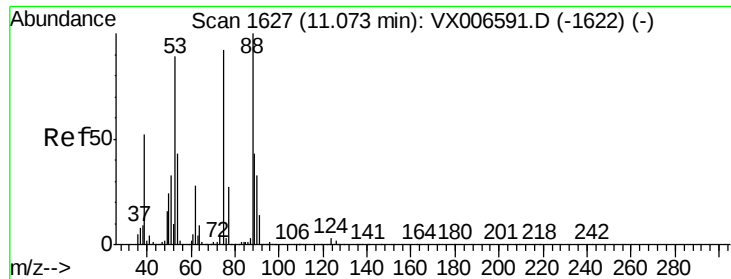
Tgt Ion:105 Resp: 4972

Ion Ratio Lower Upper

105 100

120 57.4 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 71.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

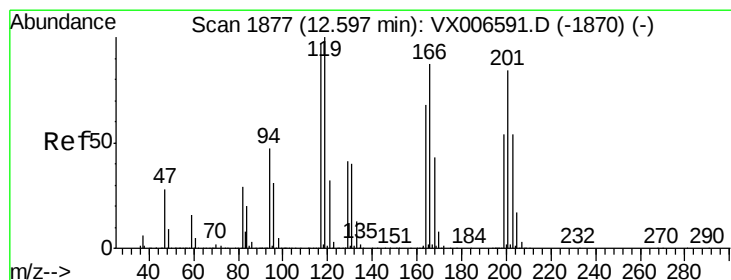
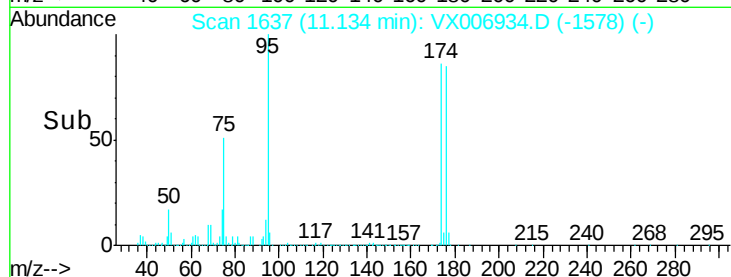
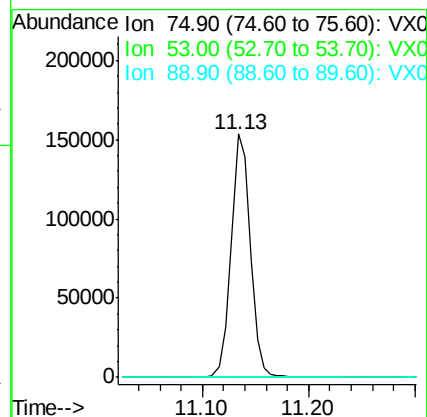
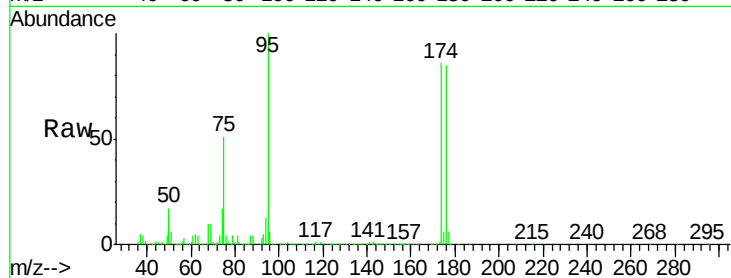
Tot Ion: 75 Resp: 195316

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.1 38.0 57.0#



#90

Hexachloroethane

Concen: 3.307 ug/l

RT: 12.49 min Scan# 1859

Delta R.T. -0.11 min

Lab File: VX006934.D

Acq: 07 Jan 2019 14:35

Tgt Ion: 117 Resp: 60

Ion Ratio Lower Upper

117 100

201 51.7 42.9 128.7

