

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012419\
 Data File : VX007209.D
 Acq On : 24 Jan 2019 17:42
 Operator : JC/SP
 Sample : PB116589ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116589ZHE#01

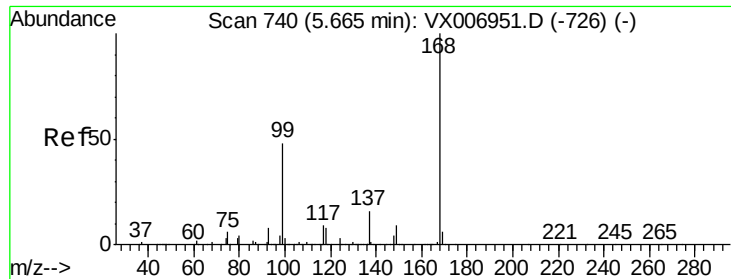
Quant Time: Jan 25 00:05:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	535060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	822736	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	805068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	380147	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	290014	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	5.51	113	259280	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	8.71	98	1021673	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
62) 4-Bromofluorobenzene	11.13	95	357886	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.20	74	721	0.204	ug/l	90
11) Tert butyl alcohol	3.07	59	666	0.505	ug/l #	1
13) Acrolein	2.28	56	468	3.897	ug/l #	73
16) Acetone	2.45	43	15764	5.702	ug/l	97
18) Methyl Acetate	2.78	43	20275	2.533	ug/l #	86
20) Methylene Chloride	2.86	84	31283	5.445	ug/l	94
25) 2-Butanone	4.71	43	2675	0.676	ug/l #	78
29) Tetrahydrofuran	5.17	42	2316	0.901	ug/l #	63
31) Cyclohexane	5.67	56	9410	1.193	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	33174	4.638	ug/l #	50
38) Carbon Tetrachloride	5.66	117	49402	6.864	ug/l #	14
43) Isopropyl Acetate	6.46	43	26896	2.223	ug/l	99
48) Methyl methacrylate	7.69	41	13588	2.187	ug/l #	12
49) 1,4-Dioxane	7.74	88	47	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	138659	17.837	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	69851	8.690	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	17251	1.875	ug/l #	43
59) 2-Hexanone	9.54	43	218680	36.914	ug/l #	51
74) N-amyl acetate	10.69	43	22124	2.050	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	172278	22.364	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	172278	66.167	ug/l #	10
88) 1,4-Dichlorobenzene	12.07	146	819	0.210	ug/l #	1
90) Hexachloroethane	12.55	117	66	2.925	ug/l	59

(#) = 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: VX007209.D

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ClientSampleId :

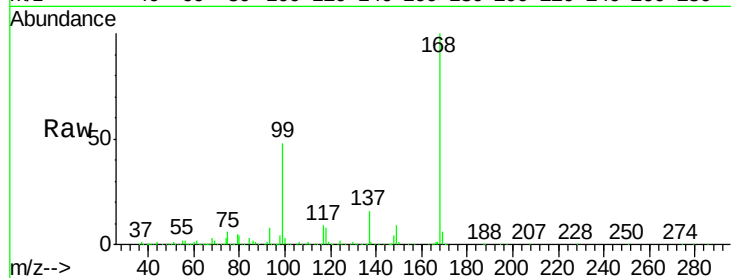
PB116589ZHE#01

Tot Ion:168 Resp: 535060

Ion Ratio Lower Upper

168 100

99 47.8 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

200000

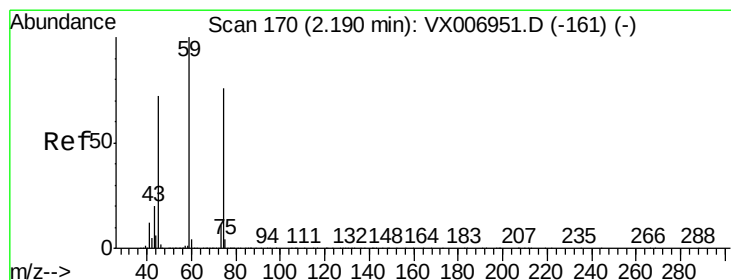
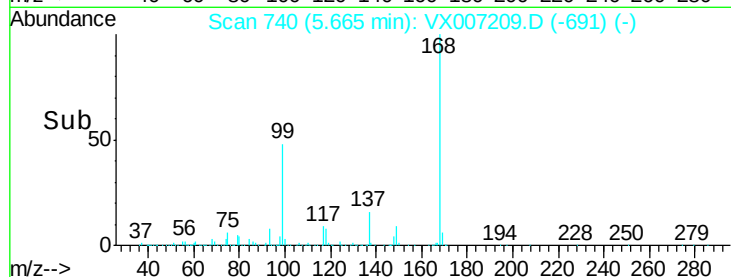
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 2.20 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX007209.D

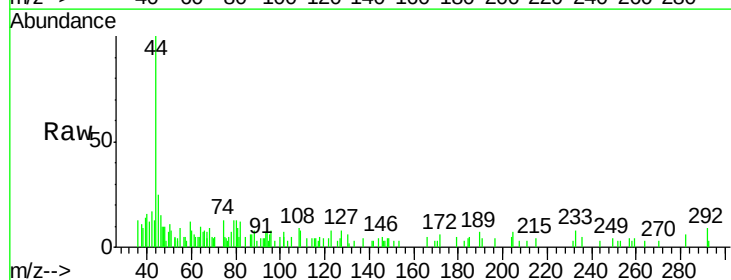
Acq: 24 Jan 2019 17:42

Tgt Ion: 74 Resp: 721

Ion Ratio Lower Upper

74 100

45 102.6 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

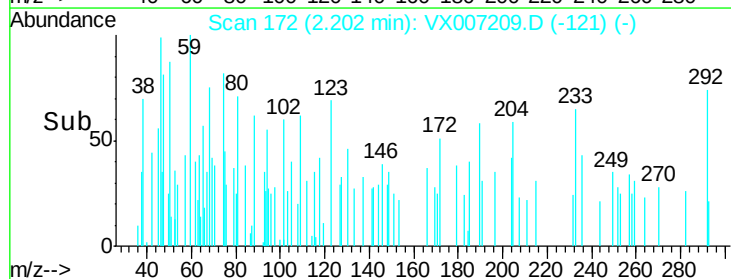
600

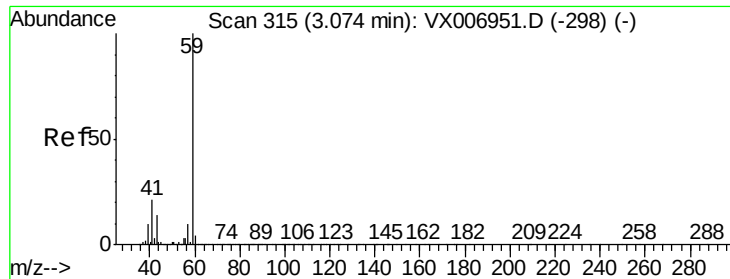
400

200

0

Time--> 2.15 2.20



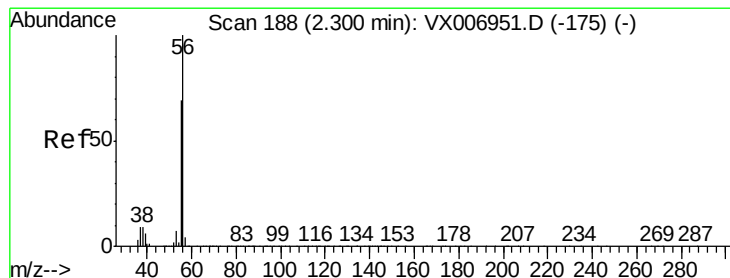
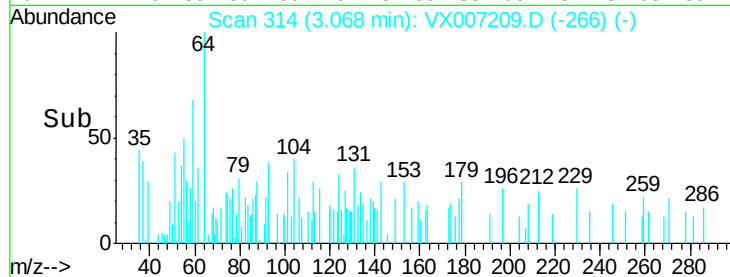
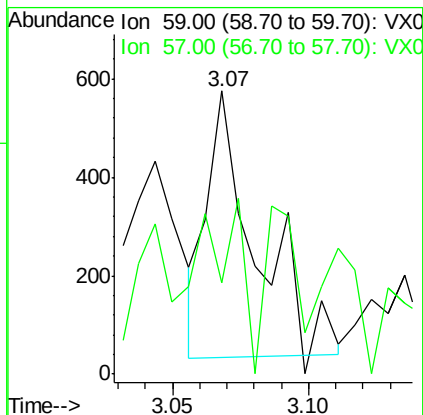
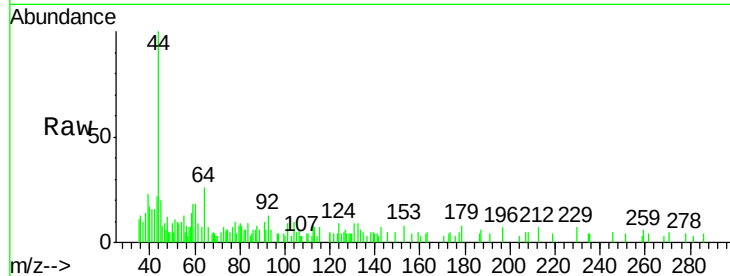


#11

Tert butyl alcohol
Concen: 0.505 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#01

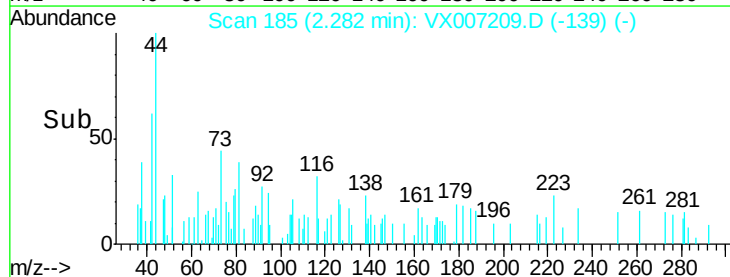
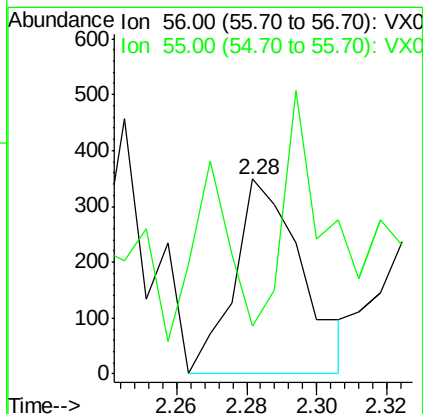
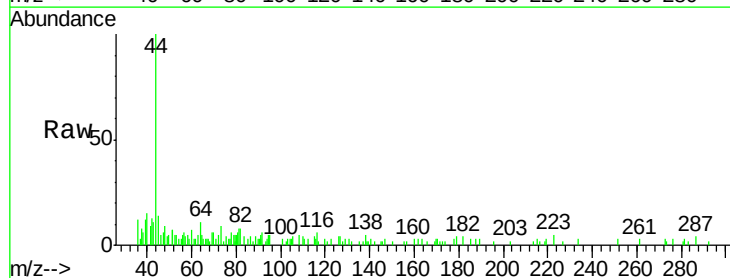
Tot Ion: 59 Resp: 666
Ion Ratio Lower Upper
59 100
57 47.9 8.5 12.7#

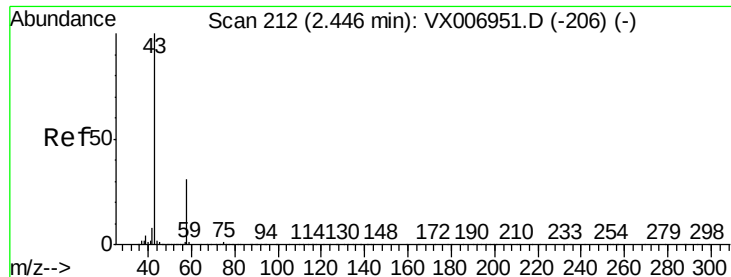


#13

Acrolein
Concen: 3.897 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.02 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

Tgt Ion: 56 Resp: 468
Ion Ratio Lower Upper
56 100
55 50.2 58.2 87.4#





#16

Acetone

Concen: 5.702 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

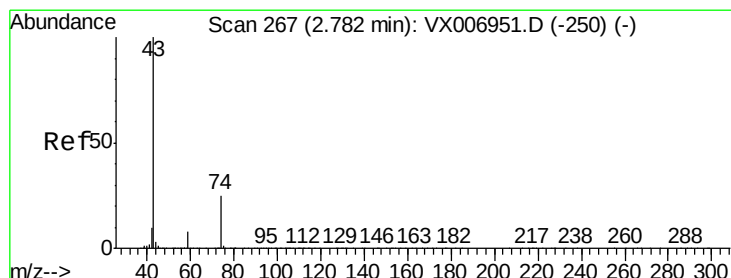
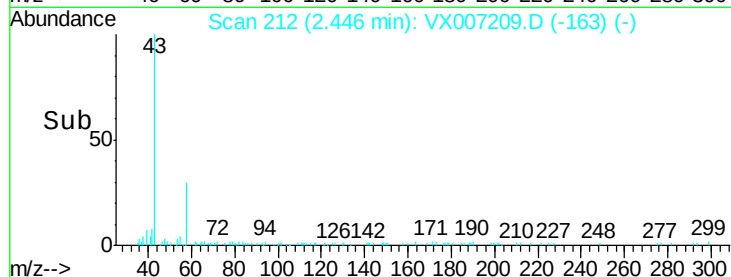
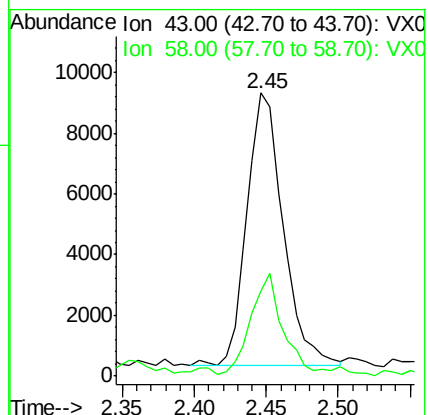
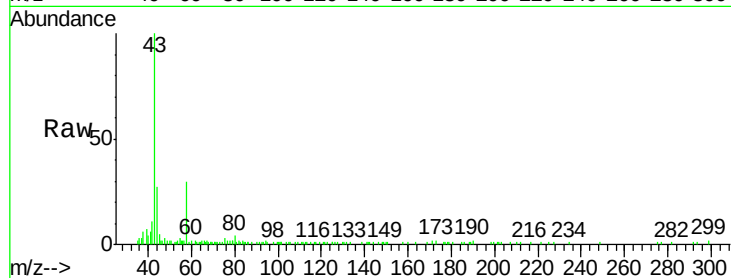
PB116589ZHE#01

Tot Ion: 43 Resp: 15764

Ion Ratio Lower Upper

43 100

58 29.7 25.0 37.6



#18

Methyl Acetate

Concen: 2.533 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007209.D

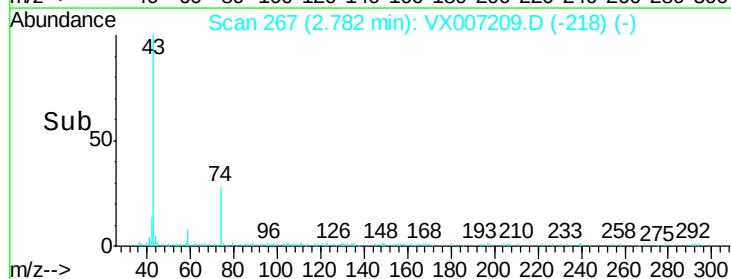
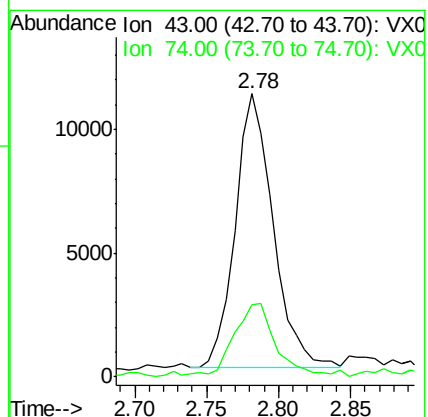
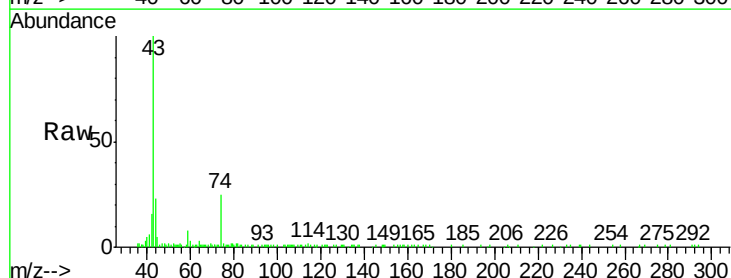
Acq: 24 Jan 2019 17:42

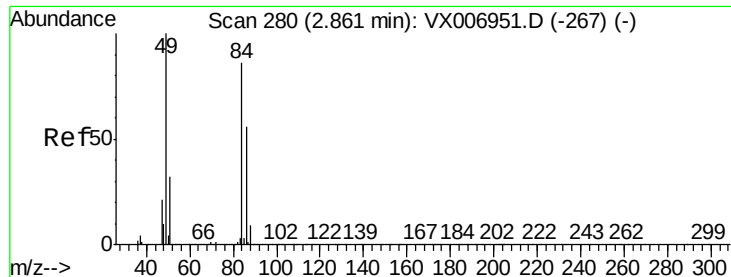
Tgt Ion: 43 Resp: 20275

Ion Ratio Lower Upper

43 100

74 30.1 18.6 28.0#





#20

Methylene Chloride

Concen: 5.445 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

Tot Ion: 84 Resp: 31283

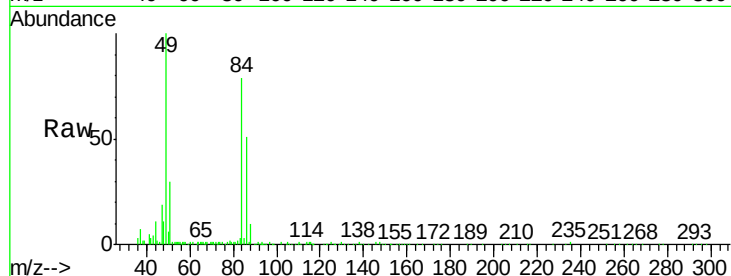
Ion Ratio Lower Upper

84 100

49 125.8 91.8 137.6

51 37.1 28.5 42.7

86 63.5 50.2 75.2

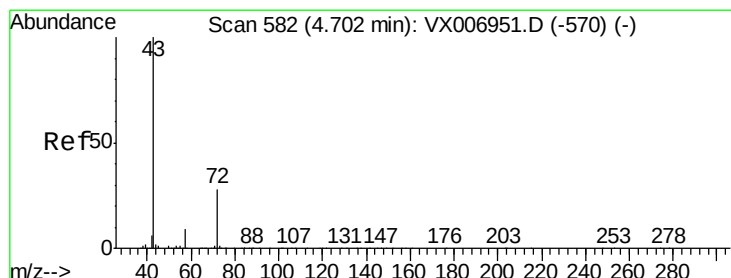
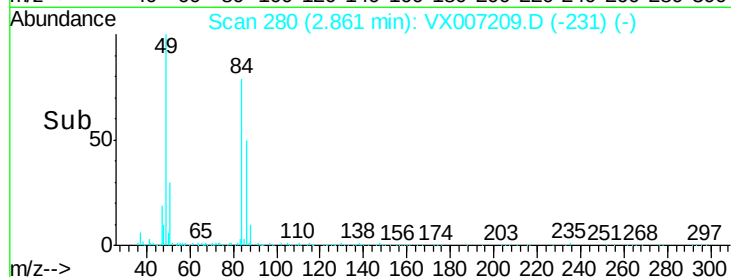
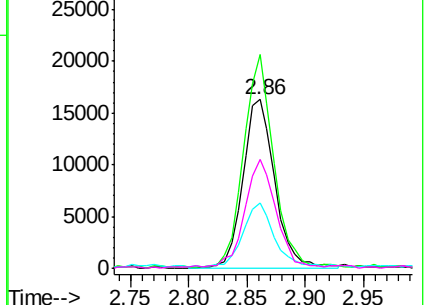


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.676 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007209.D

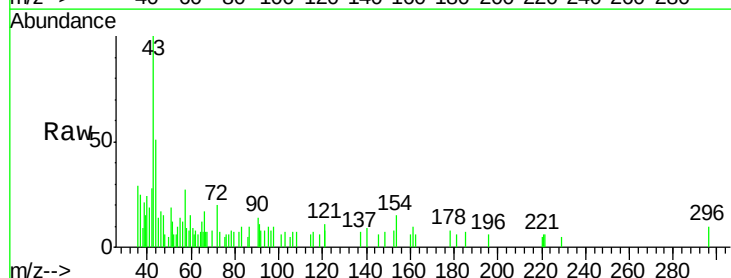
Acq: 24 Jan 2019 17:42

Tgt Ion: 43 Resp: 2675

Ion Ratio Lower Upper

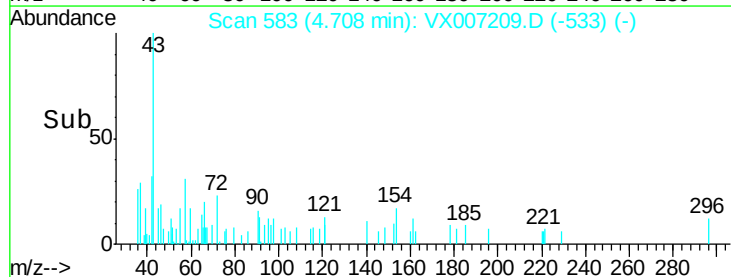
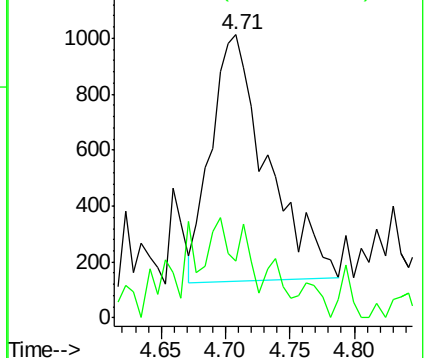
43 100

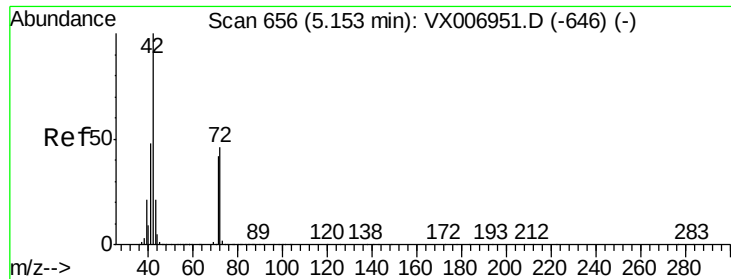
72 16.2 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.901 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

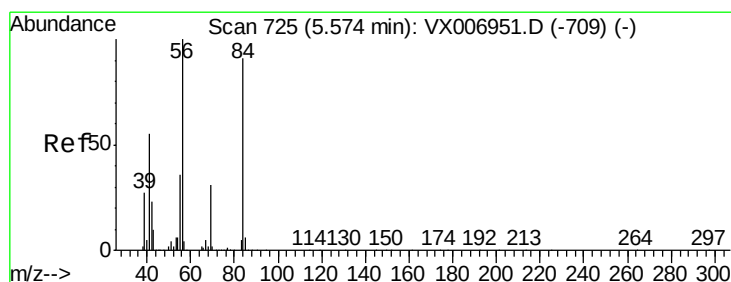
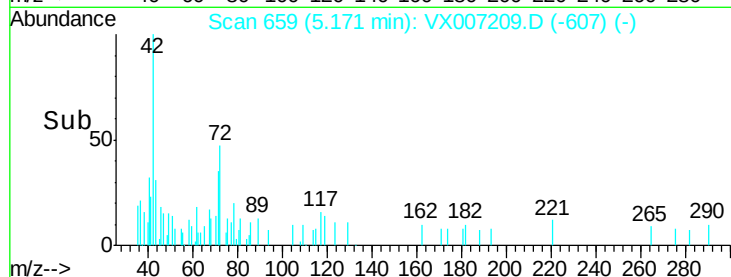
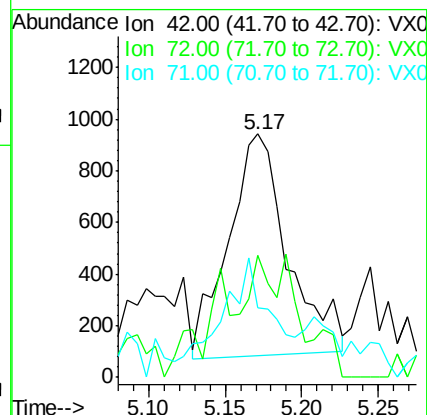
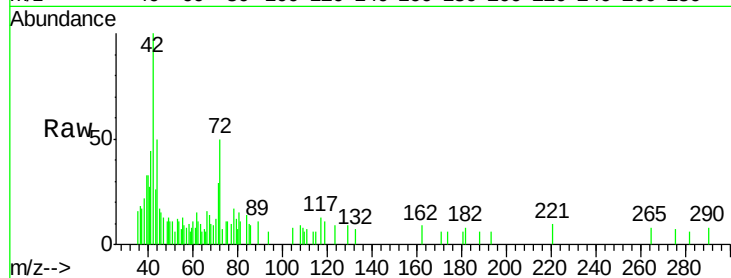
Tot Ion: 42 Resp: 2316

Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 45.7 36.2 54.4



#31

Cyclohexane

Concen: 1.193 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

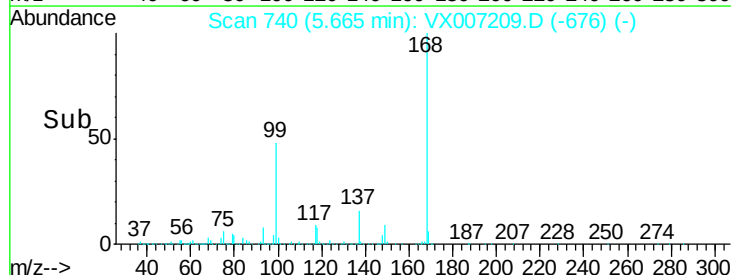
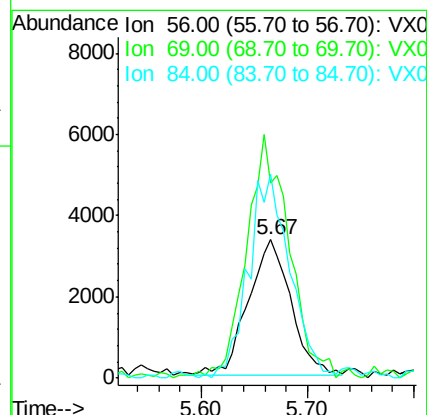
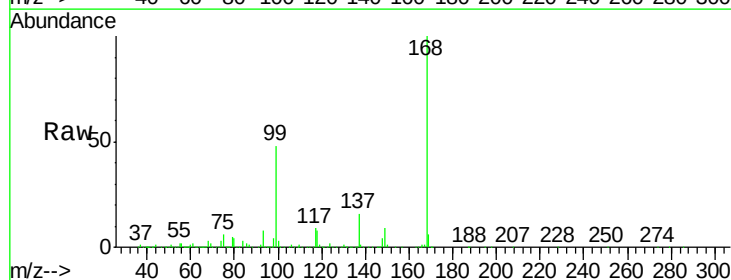
Tgt Ion: 56 Resp: 9410

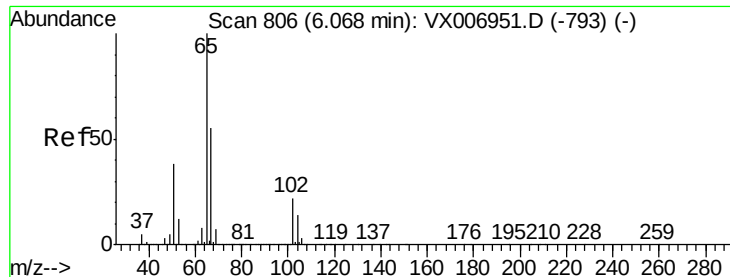
Ion Ratio Lower Upper

56 100

69 142.7 24.4 36.6#

84 149.4 70.0 105.0#

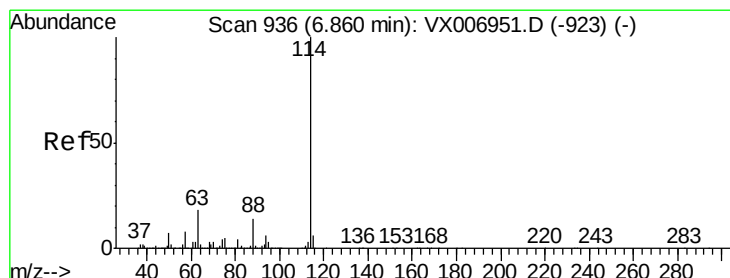
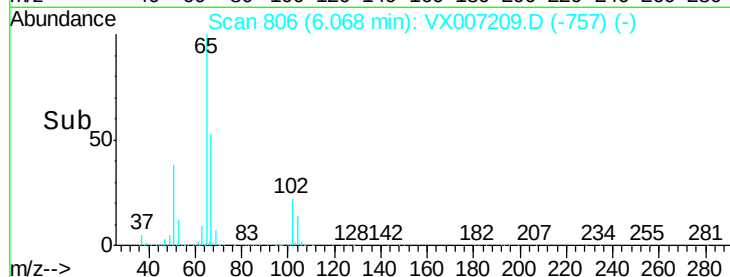
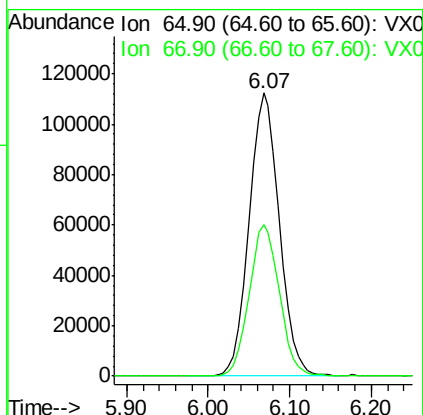
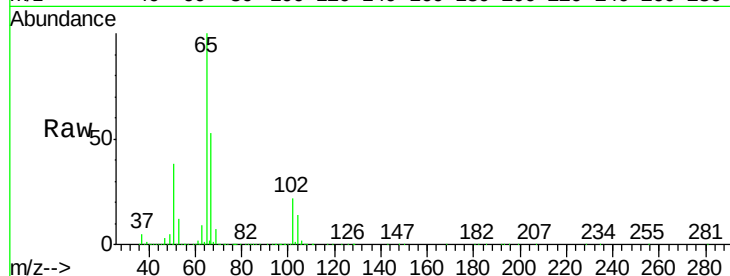




#33
 1,2-Dichloroethane-d4
 Concen: 51.864 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007209.D
 Acq: 24 Jan 2019 17:42

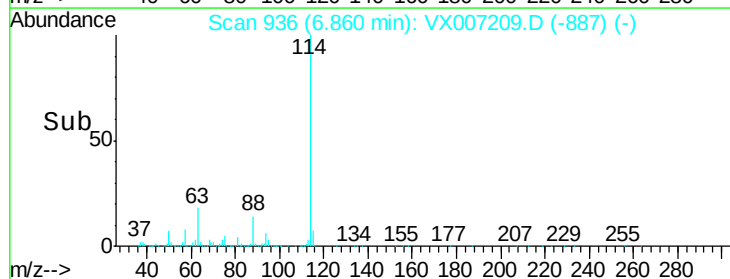
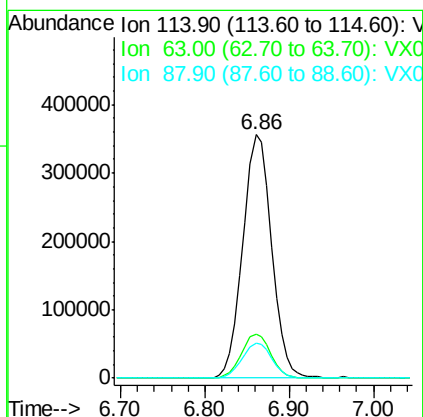
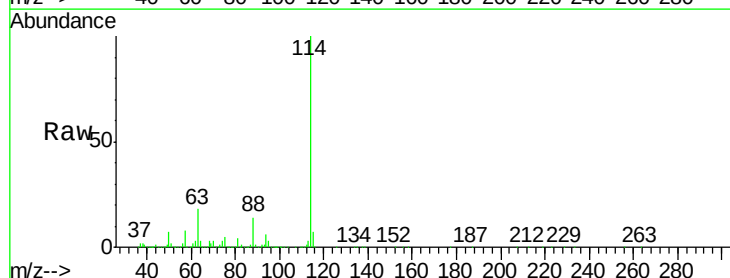
Instrument :
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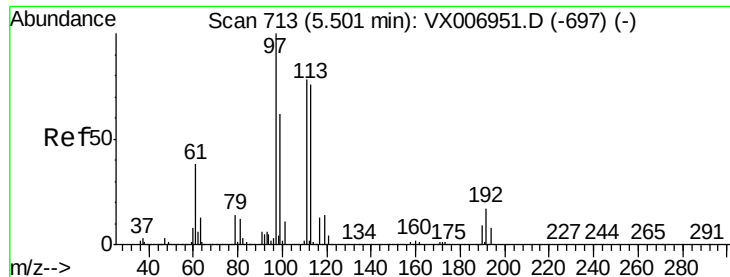
Tot Ion: 65 Resp: 290014
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007209.D
 Acq: 24 Jan 2019 17:42

Tgt Ion: 114 Resp: 822736
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 34.8
 88 14.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 49.211 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

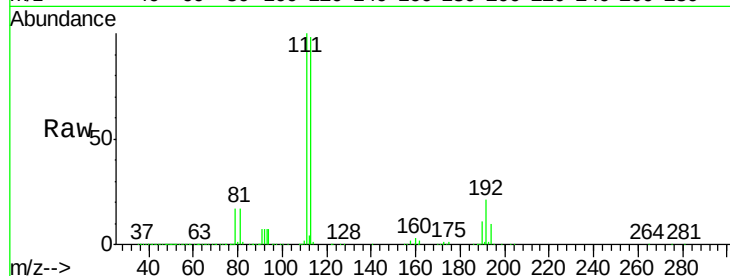
Tot Ion:113 Resp: 259280

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

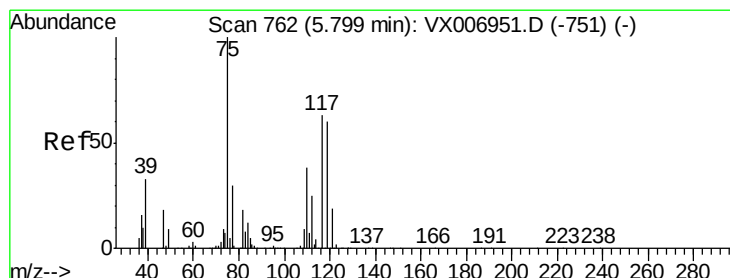
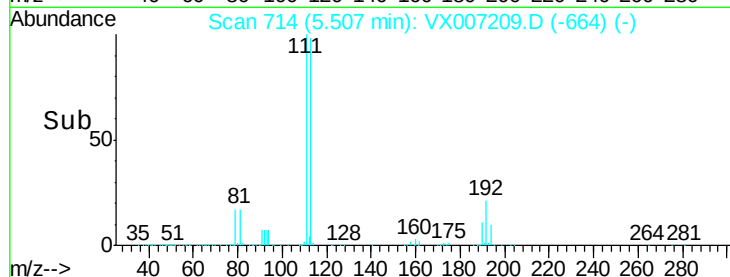
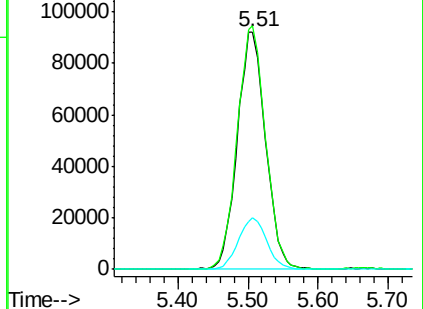
192 21.9 16.7 25.1



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: 4.638 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

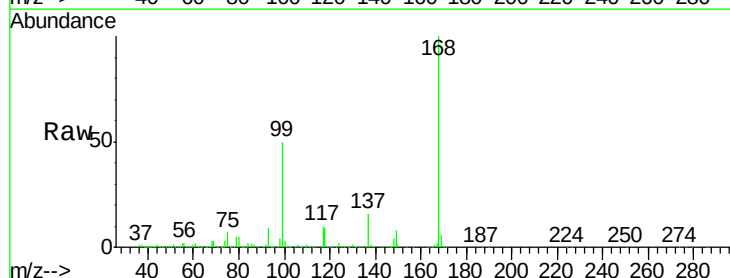
Tgt Ion: 75 Resp: 33174

Ion Ratio Lower Upper

75 100

110 11.8 20.2 60.5#

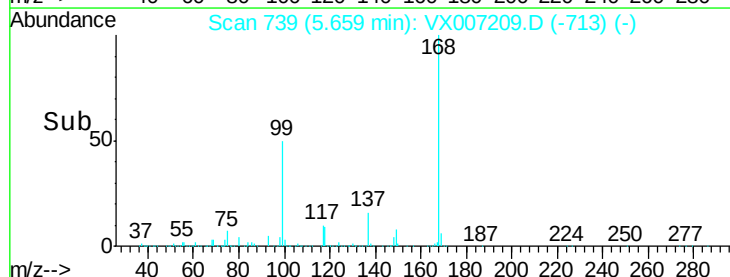
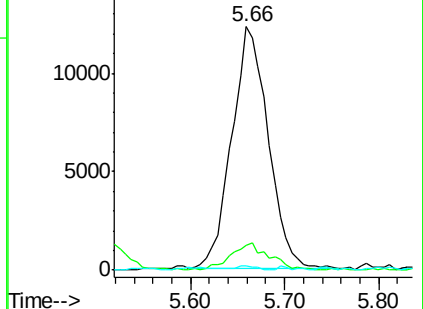
77 0.9 24.8 37.2#

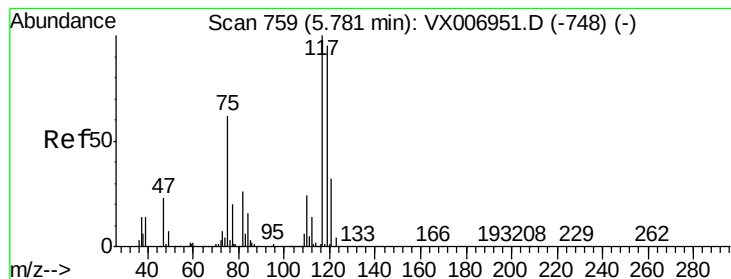


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.864 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

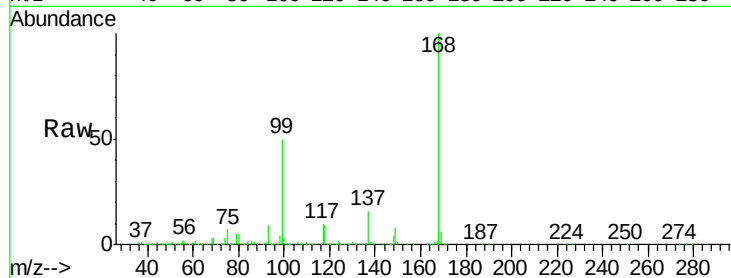
Tot Ion:117 Resp: 49402

Ion Ratio Lower Upper

117 100

119 4.2 79.4 119.2#

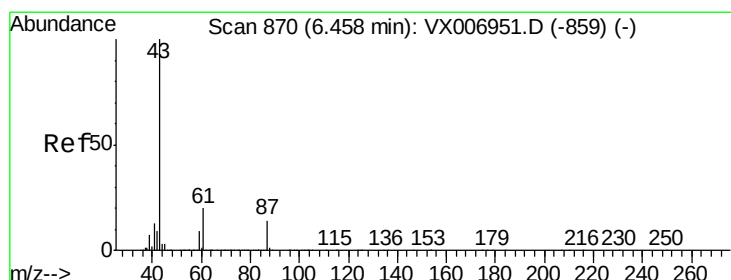
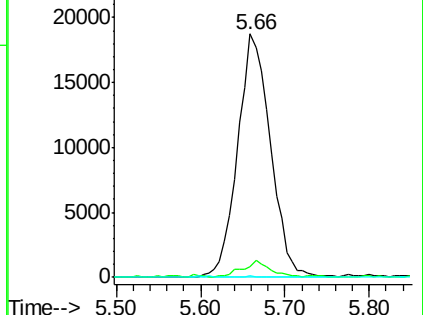
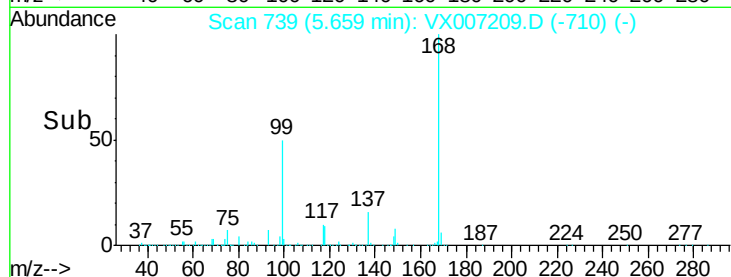
121 0.6 24.0 36.0#



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: 2.223 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

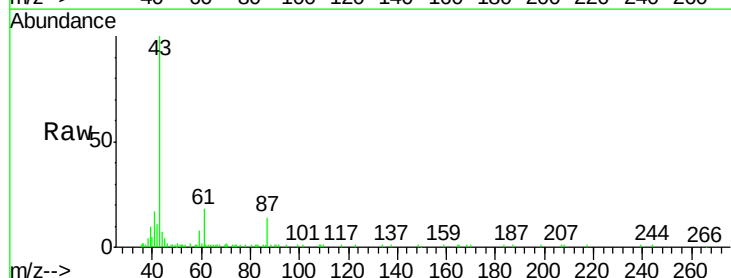
Tgt Ion: 43 Resp: 26896

Ion Ratio Lower Upper

43 100

61 22.1 16.8 25.2

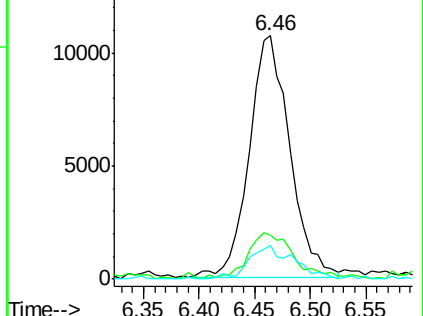
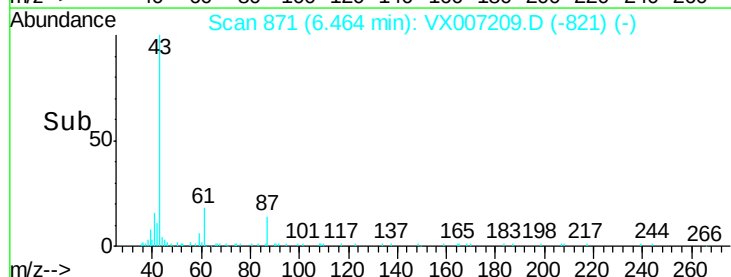
87 15.5 12.4 18.6

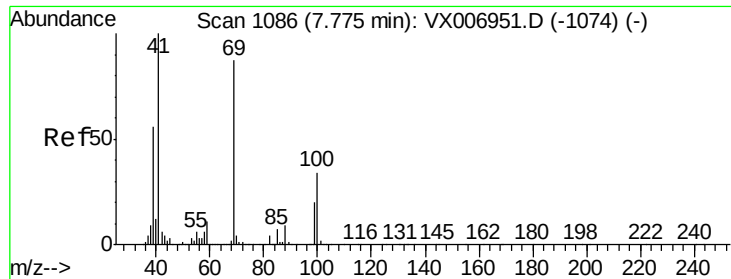


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

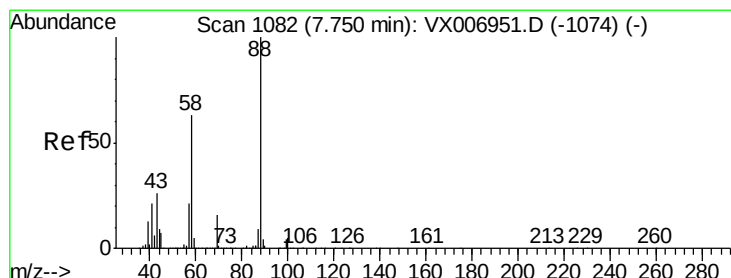
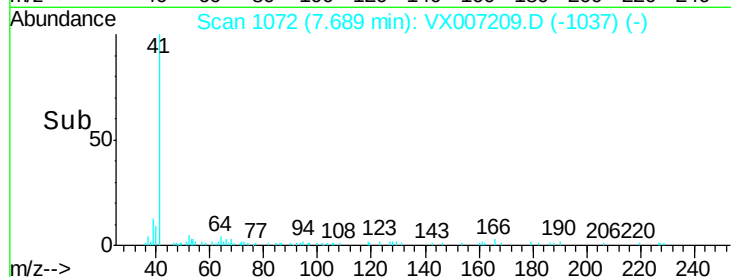
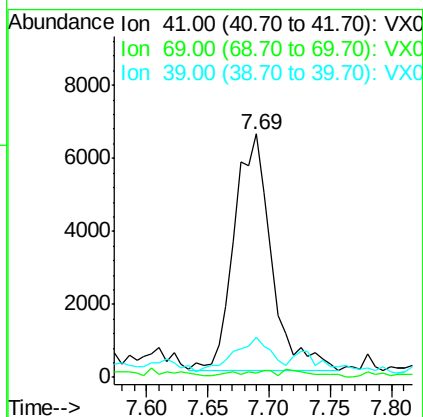
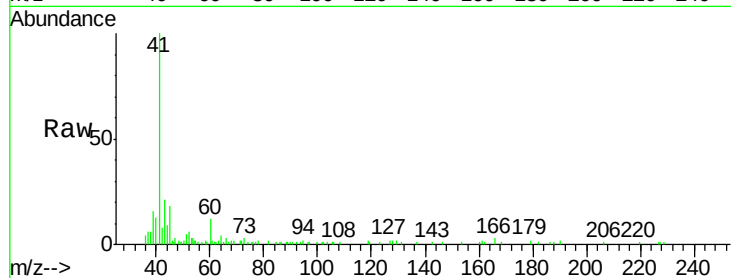




#48
Methyl methacrylate
Concen: 2.187 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

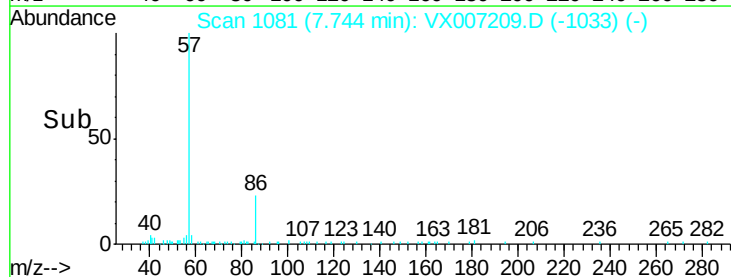
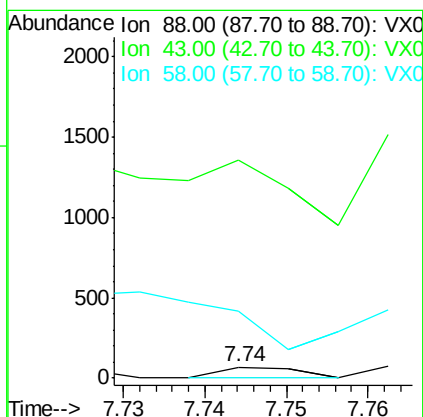
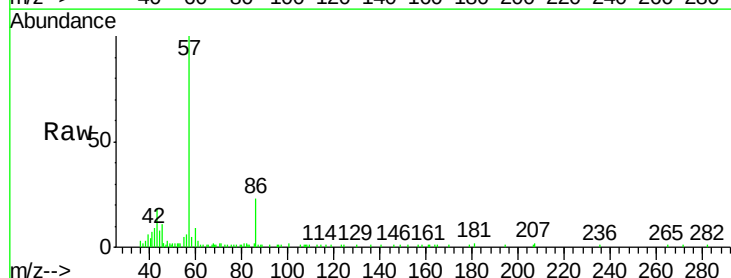
Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#01

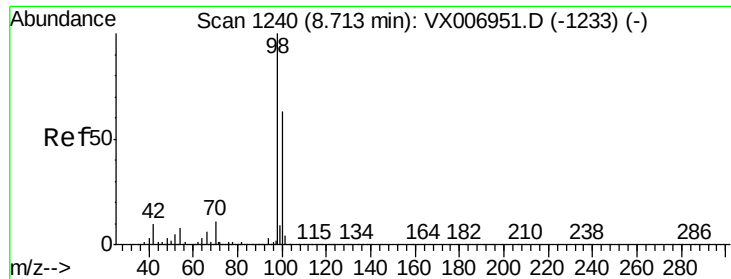
Tot Ion: 41 Resp: 13588
Ion Ratio Lower Upper
41 100
69 0.9 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

Tgt Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#

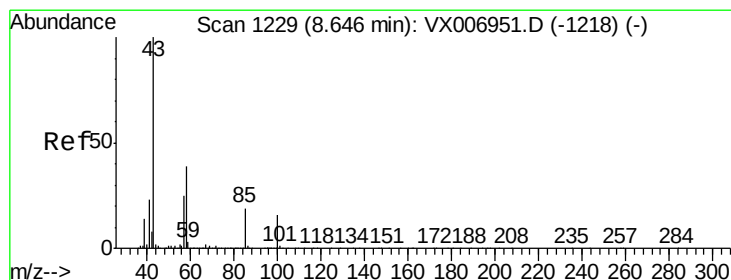
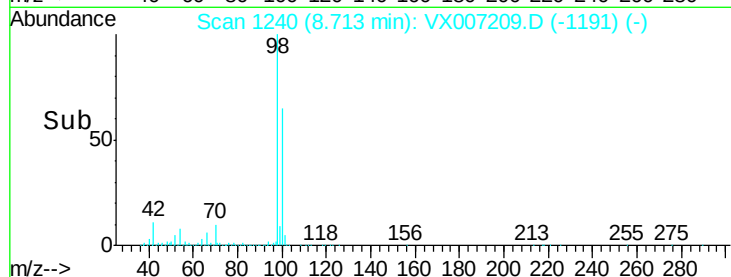
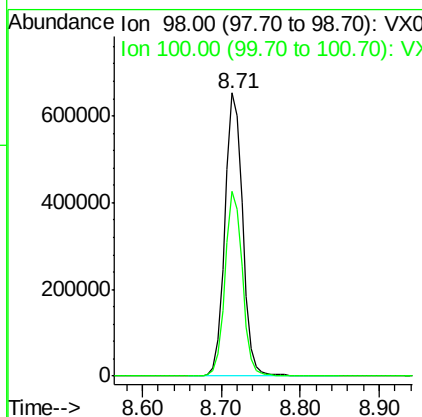
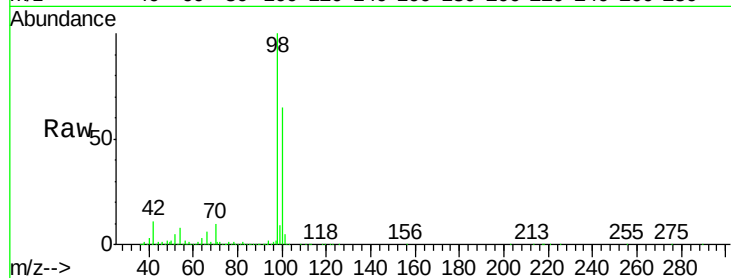




#50
Toluene-d8
Concen: 52.977 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

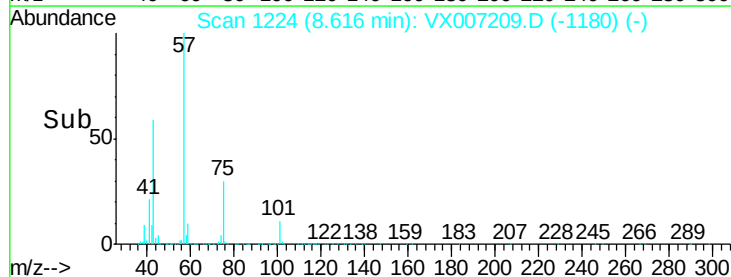
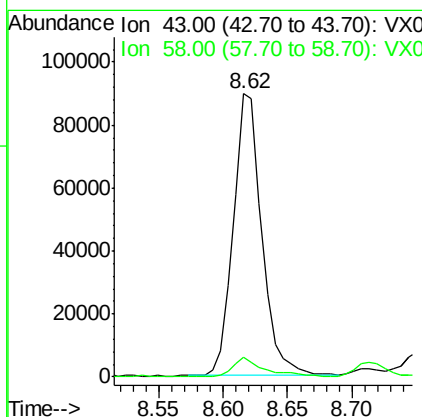
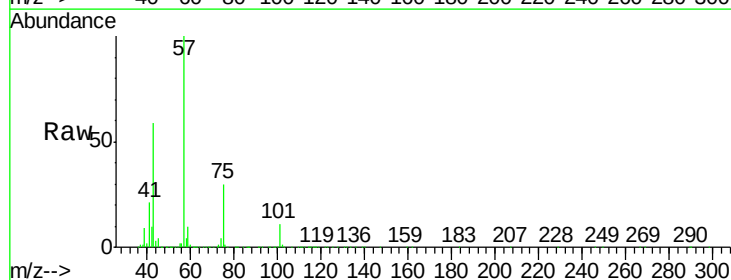
Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#01

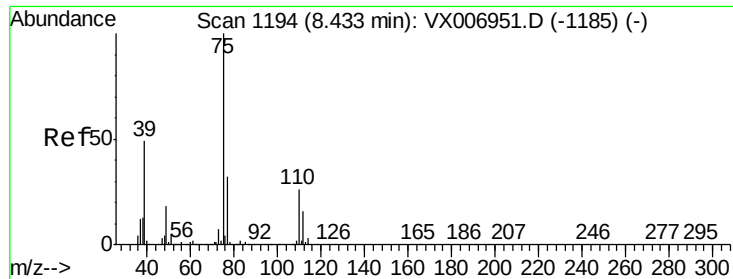
Tot Ion: 98 Resp: 1021673
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 17.837 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007209.D
Acq: 24 Jan 2019 17:42

Tgt Ion: 43 Resp: 138659
Ion Ratio Lower Upper
43 100
58 7.4 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 8.690 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

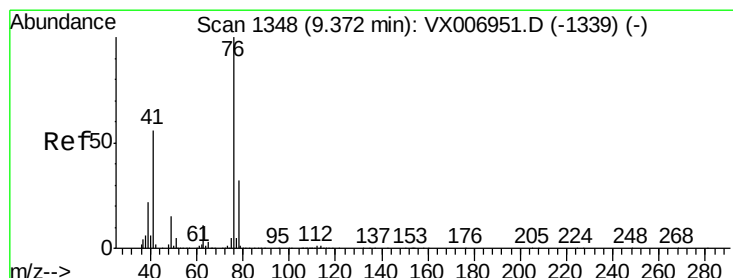
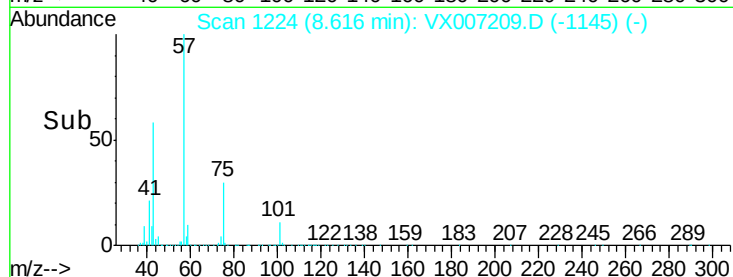
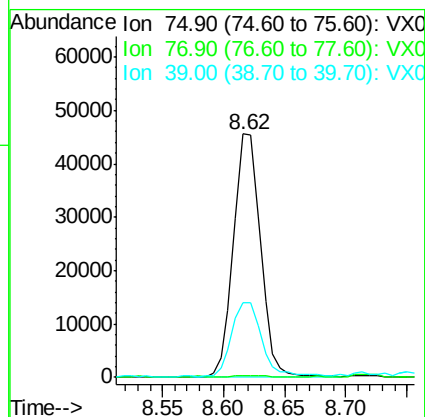
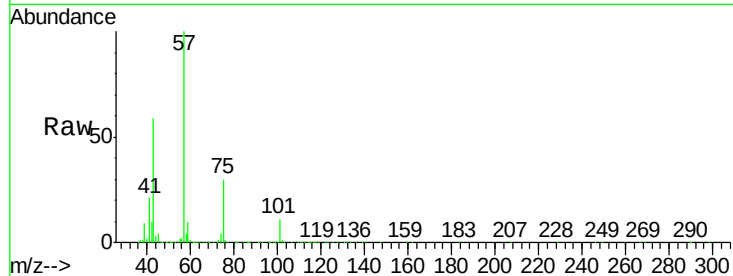
Tot Ion: 75 Resp: 69851

Ion Ratio Lower Upper

75 100

77 0.1 26.2 39.2#

39 30.5 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.875 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007209.D

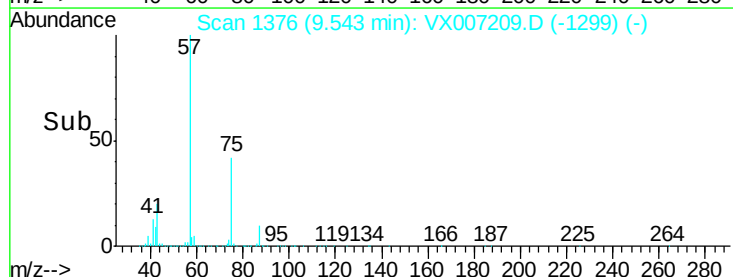
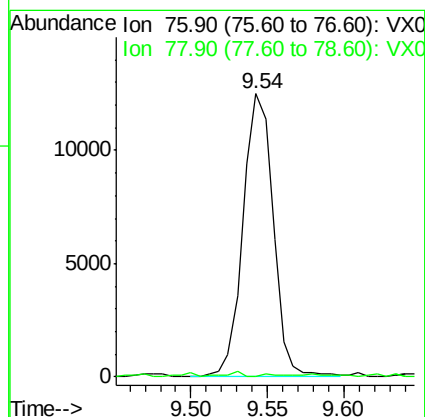
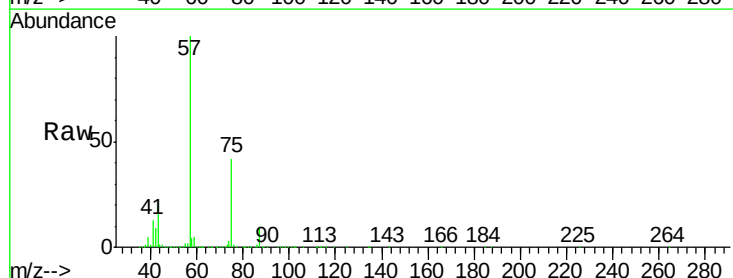
Acq: 24 Jan 2019 17:42

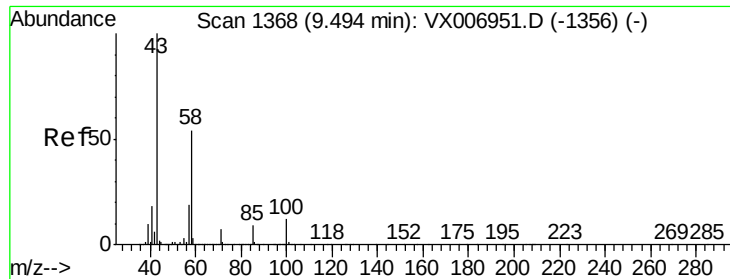
Tgt Ion: 76 Resp: 17251

Ion Ratio Lower Upper

76 100

78 0.6 26.0 39.0#





#59

2-Hexanone

Concen: 36.914 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

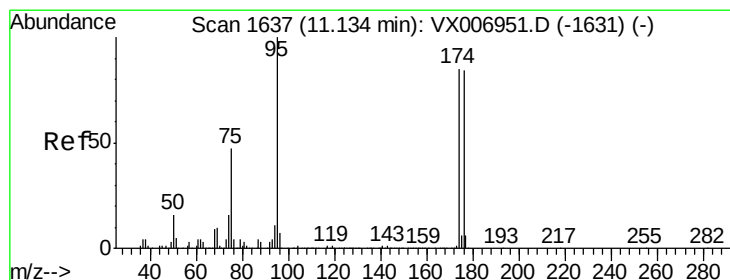
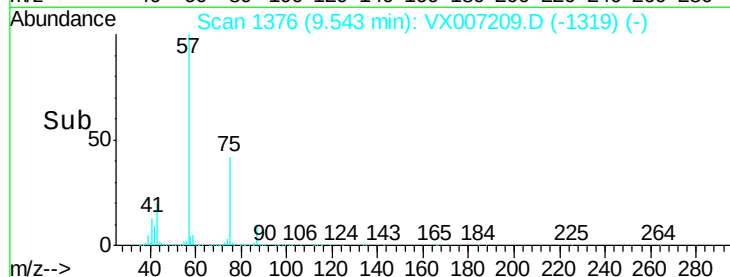
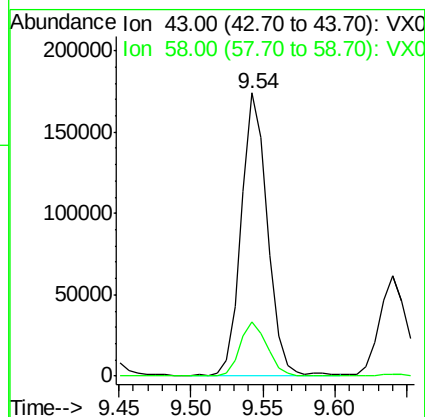
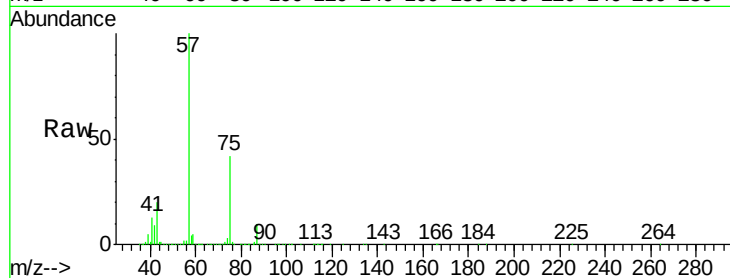
PB116589ZHE#01

Tot Ion: 43 Resp: 218680

Ion Ratio Lower Upper

43 100

58 20.0 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 53.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

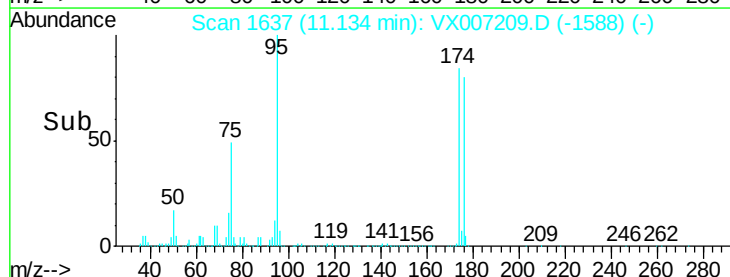
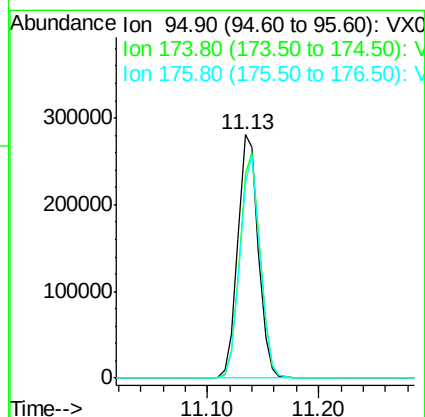
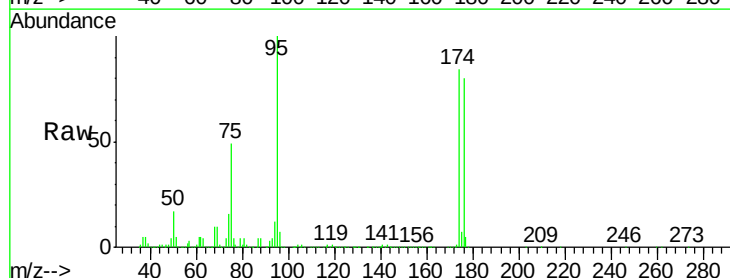
Tgt Ion: 95 Resp: 357886

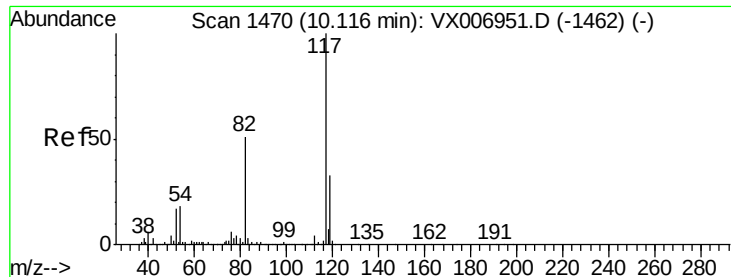
Ion Ratio Lower Upper

95 100

174 92.3 0.0 182.2

176 89.5 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

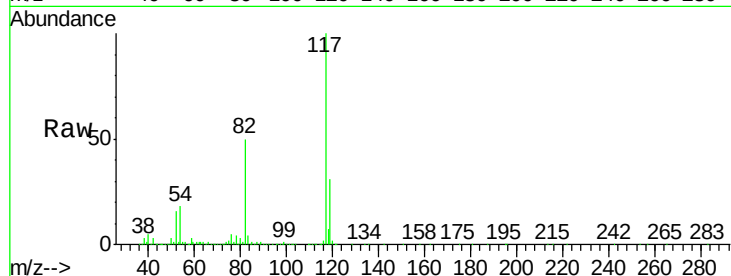
Tot Ion:117 Resp: 805068

Ion Ratio Lower Upper

117 100

82 50.1 41.0 61.6

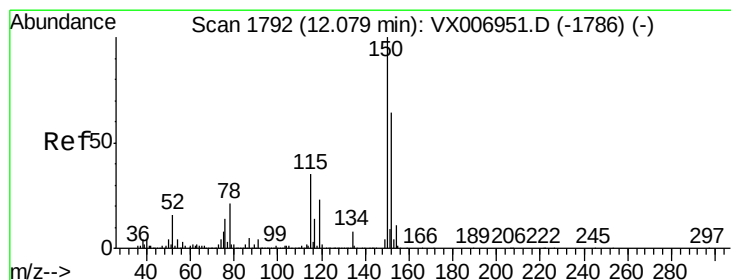
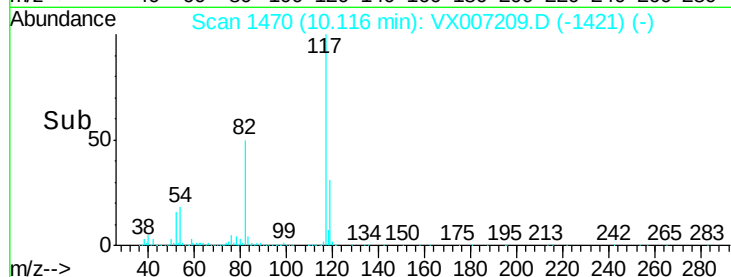
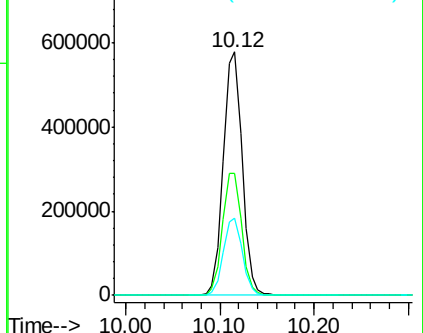
119 31.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

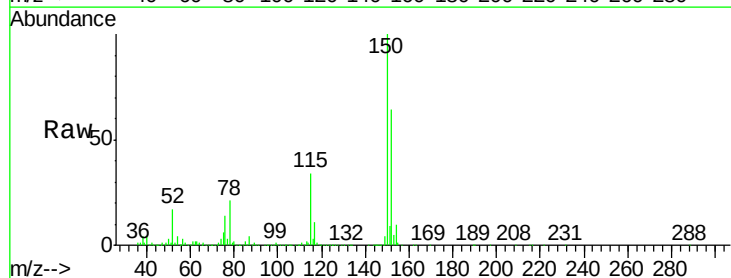
Tgt Ion:152 Resp: 380147

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.2

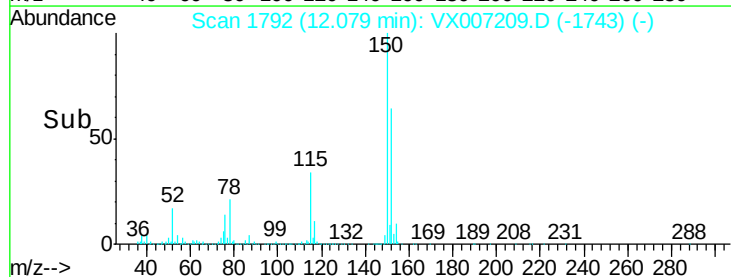
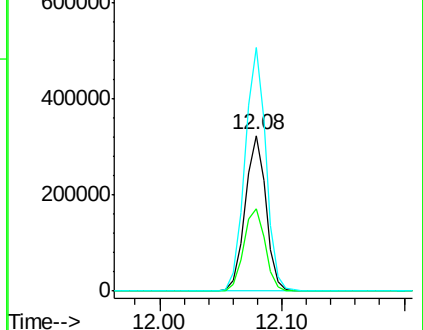
150 157.4 0.0 344.8

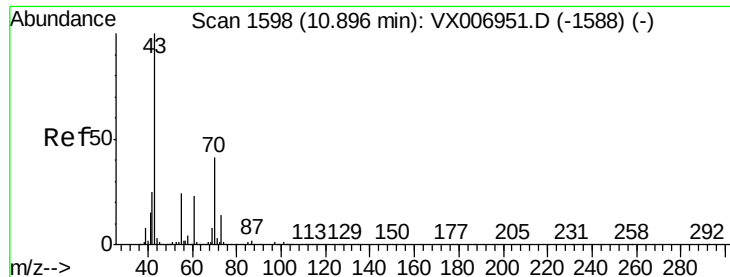


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.050 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

Tot Ion: 43 Resp: 22124

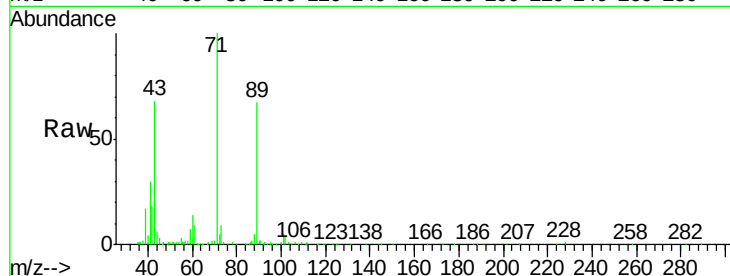
Ion Ratio Lower Upper

43 100

70 3.1 35.8 53.8#

55 4.6 19.4 29.0#

61 12.6 20.1 30.1#

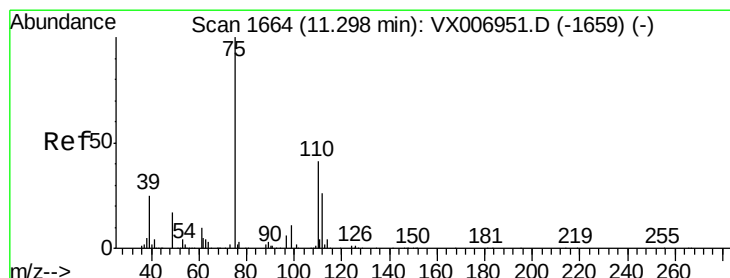
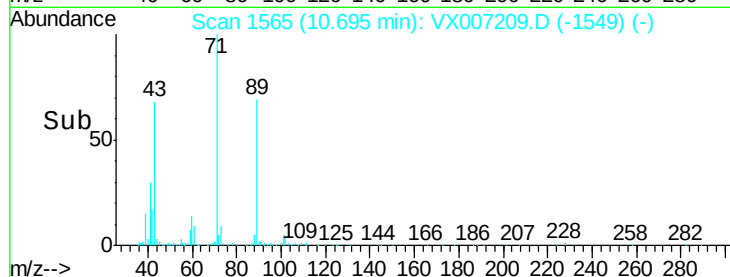
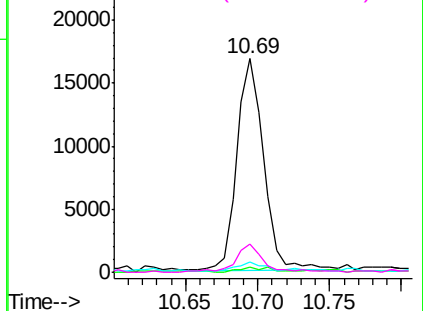


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.364 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007209.D

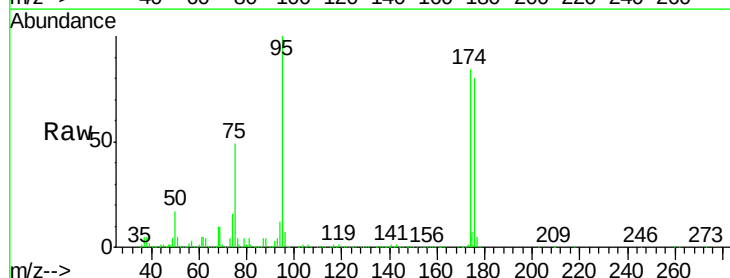
Acq: 24 Jan 2019 17:42

Tgt Ion: 75 Resp: 172278

Ion Ratio Lower Upper

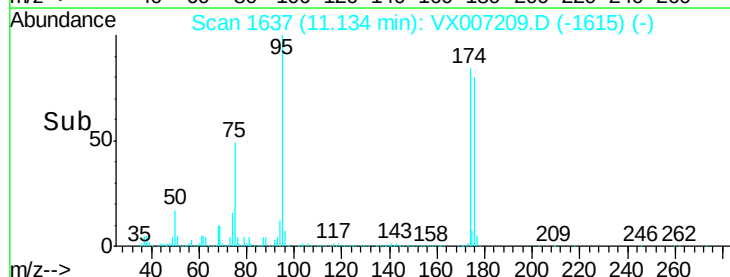
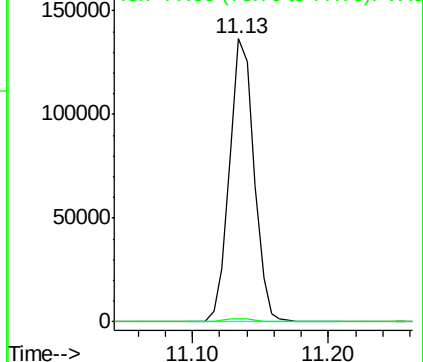
75 100

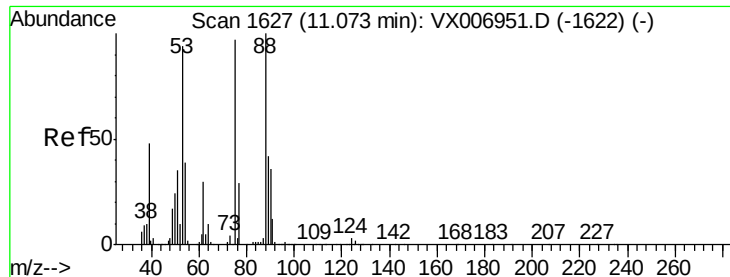
77 1.5 18.5 55.5#



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: 66.167 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#01

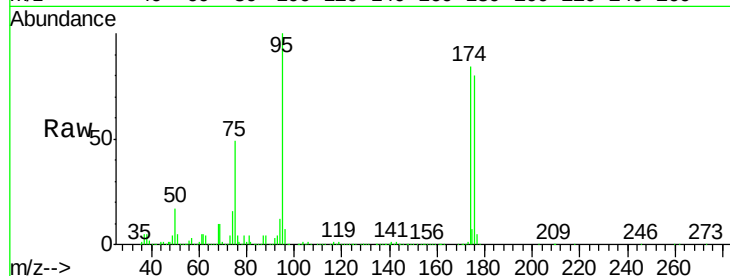
Tot Ion: 75 Resp: 172278

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

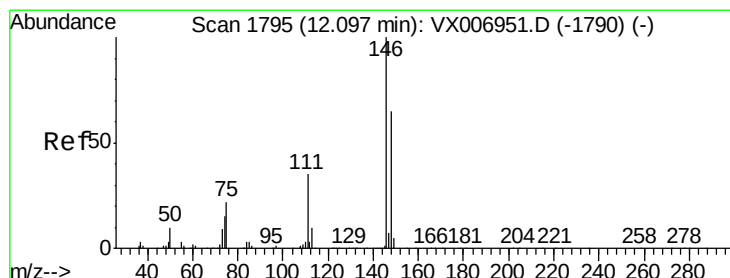
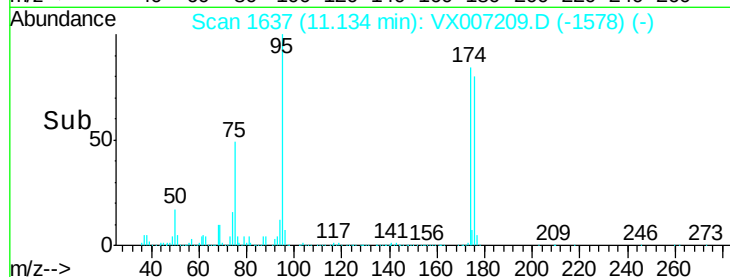
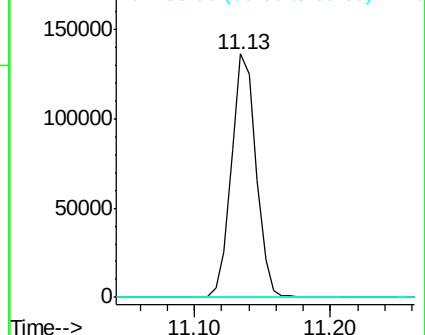
89 0.0 38.0 57.0#



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: 0.210 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.02 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

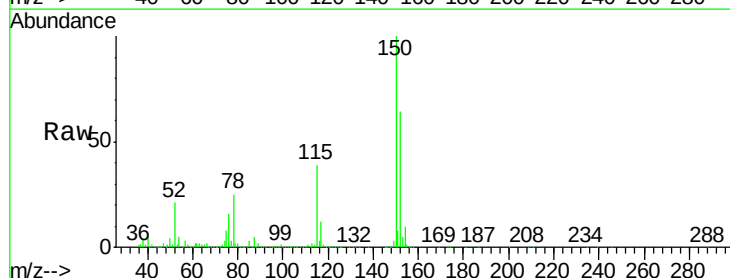
Tgt Ion: 146 Resp: 819

Ion Ratio Lower Upper

146 100

111 616.5 18.1 54.1#

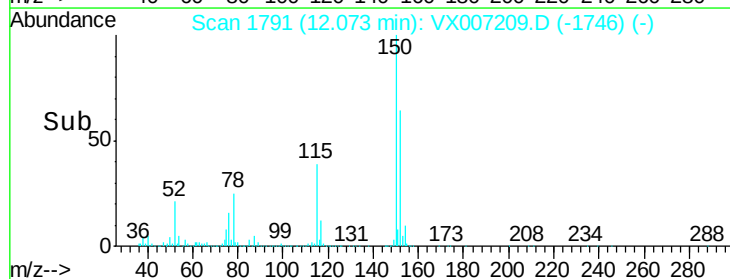
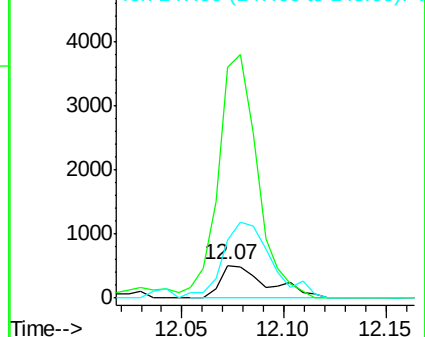
148 238.7 31.9 95.9#

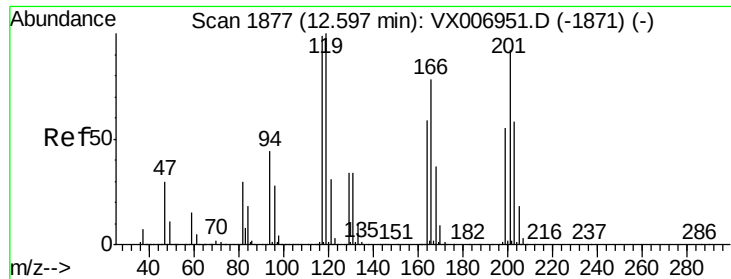


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 2.925 ug/l

RT: 12.55 min Scan# 1870

Delta R.T. -0.04 min

Lab File: VX007209.D

Acq: 24 Jan 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

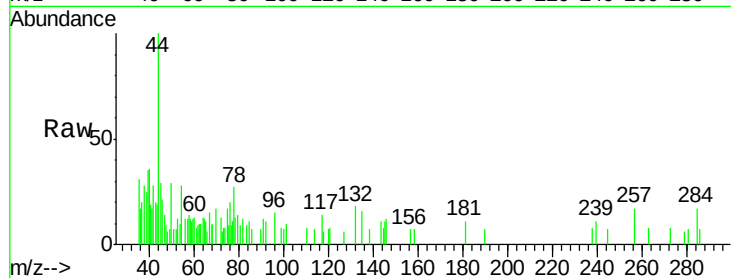
PB116589ZHE#01

Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

201 48.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

