

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020419\
 Data File : VX007358.D
 Acq On : 04 Feb 2019 14:43
 Operator : JC/SP
 Sample : PB116780ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#03

Quant Time: Feb 04 23:58:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	486090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	751560	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	727104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	339885	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	259747	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
35) Dibromofluoromethane	5.50	113	233187	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	
50) Toluene-d8	8.71	98	926429	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
62) 4-Bromofluorobenzene	11.13	95	323805	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	

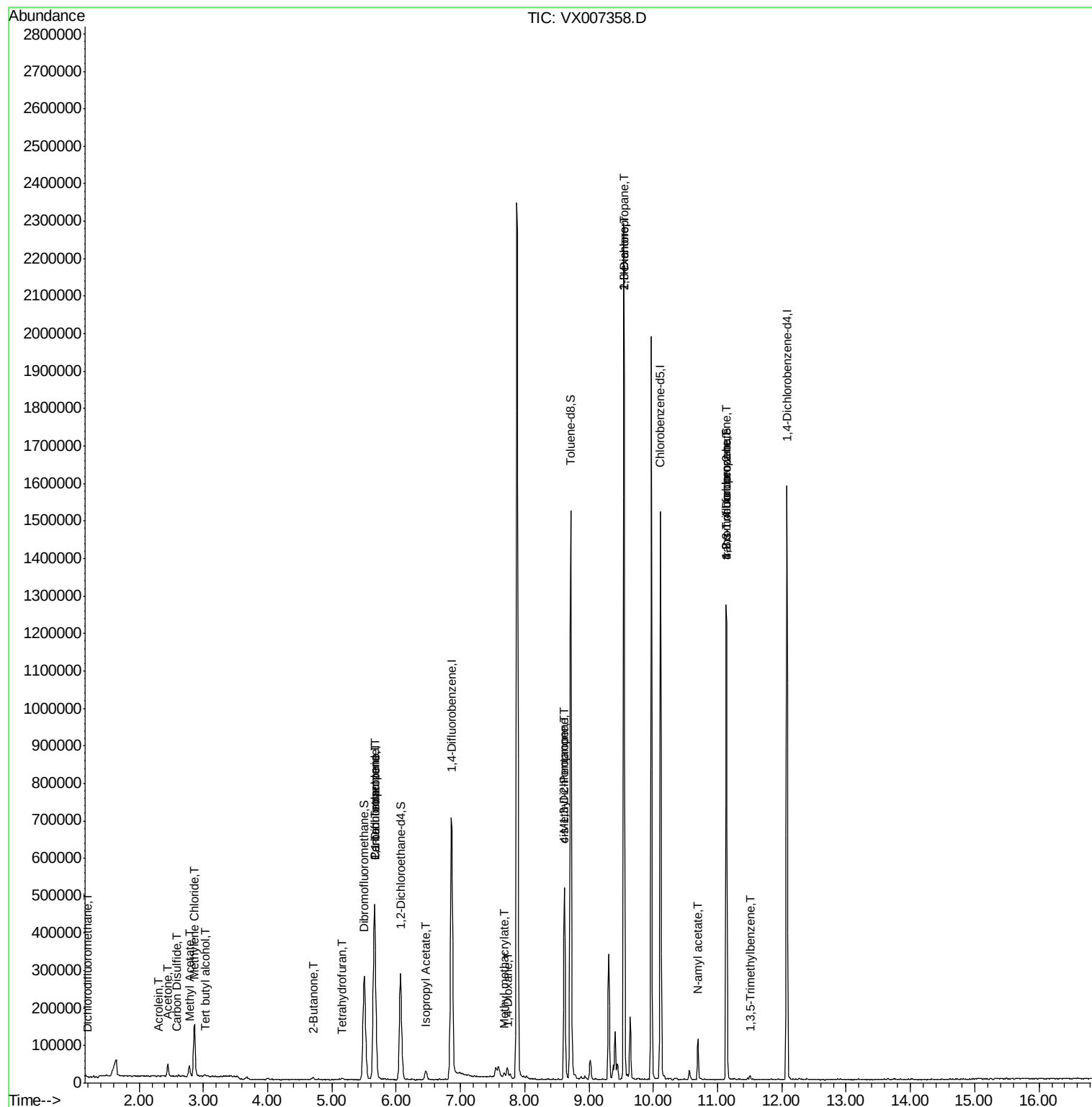
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	282	0.224	ug/l	83
5) Bromomethane	1.64	94	782	Below Cal	#	63
11) Tert butyl alcohol	3.02	59	1709	1.601	ug/l #	67
13) Acrolein	2.29	56	919	1.835	ug/l #	73
16) Acetone	2.45	43	34803	14.726	ug/l	96
17) Carbon Disulfide	2.57	76	627	2.171	ug/l #	71
18) Methyl Acetate	2.78	43	34523	6.133	ug/l	95
20) Methylene Chloride	2.85	84	67174	13.629	ug/l	96
25) 2-Butanone	4.71	43	8324	2.475	ug/l	98
29) Tetrahydrofuran	5.15	42	3181	1.504	ug/l #	72
36) 1,1-Dichloropropene	5.66	75	31561	4.680	ug/l #	49
38) Carbon Tetrachloride	5.67	117	43291	6.617	ug/l #	16
43) Isopropyl Acetate	6.46	43	32146	3.055	ug/l	99
48) Methyl methacrylate	7.68	41	16791	3.190	ug/l #	12
49) 1,4-Dioxane	7.74	88	214	8.655	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	168157	24.278	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	83007	11.463	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	19131	2.252	ug/l #	46
59) 2-Hexanone	9.54	43	242543	45.000	ug/l #	52
74) N-amyl acetate	10.69	43	24080	2.695	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	153815	23.266	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	4462	0.236	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.13	75	153815	70.060	ug/l #	9

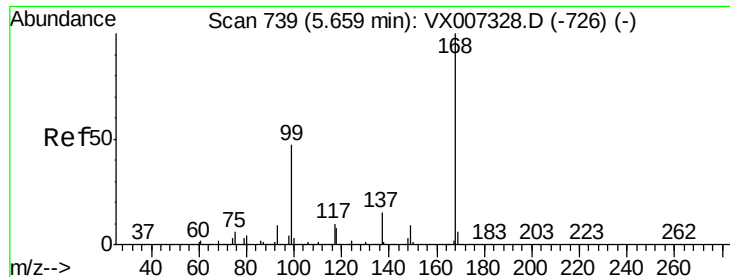
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Feb 04 23:58:26 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
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: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

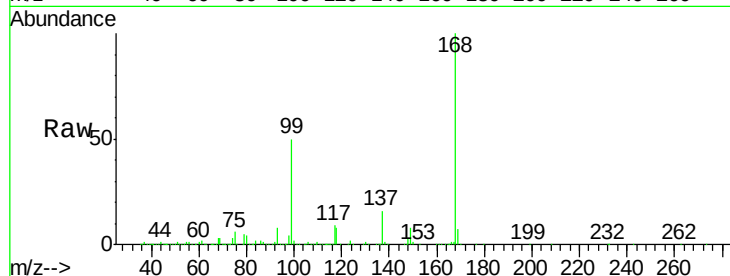
PB116780ZHE#03

Tot Ion:168 Resp: 486090

Ion Ratio Lower Upper

168 100

99 49.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

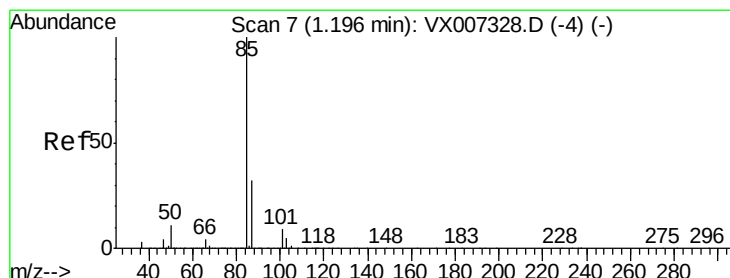
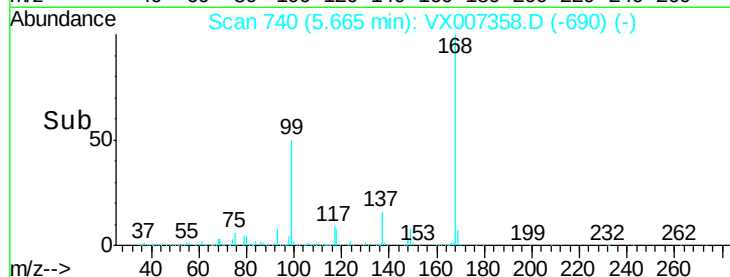
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.224 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007358.D

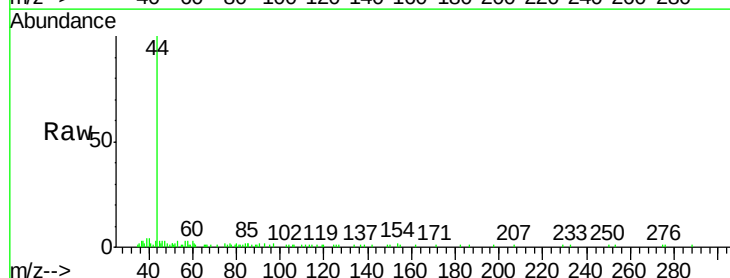
Acq: 04 Feb 2019 14:43

Tgt Ion: 85 Resp: 282

Ion Ratio Lower Upper

85 100

87 41.3 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

150

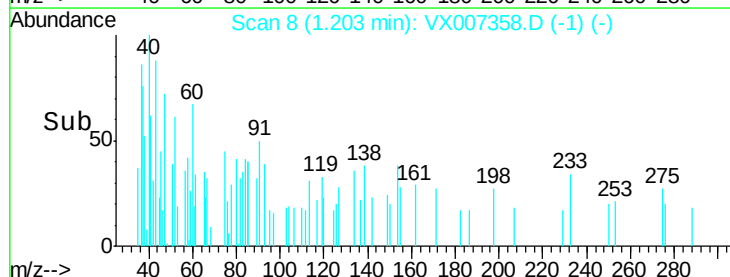
100

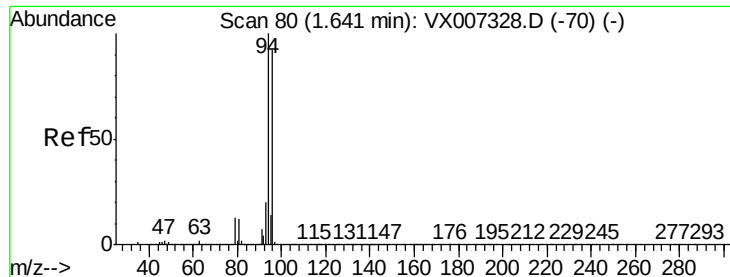
50

0

Time-->

1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

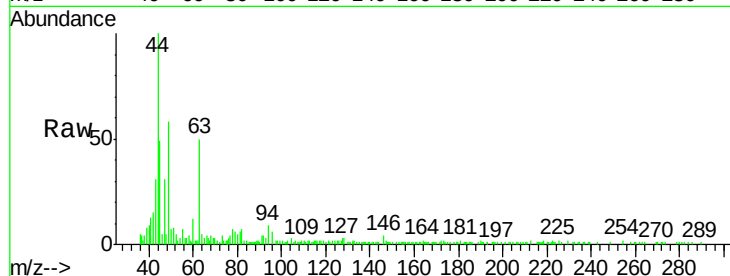
PB116780ZHE#03

Tot Ion: 94 Resp: 782

Ion Ratio Lower Upper

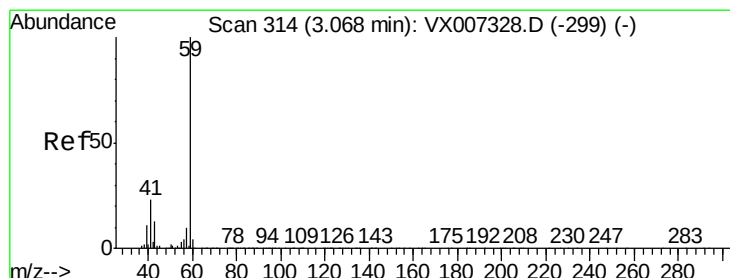
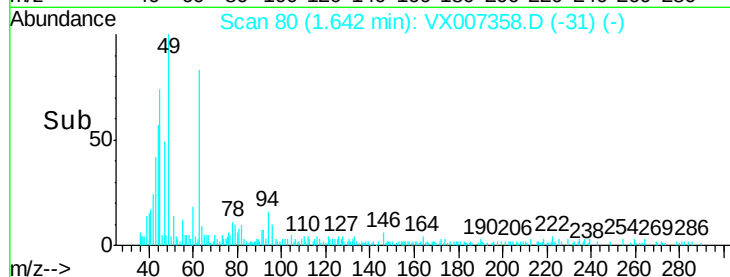
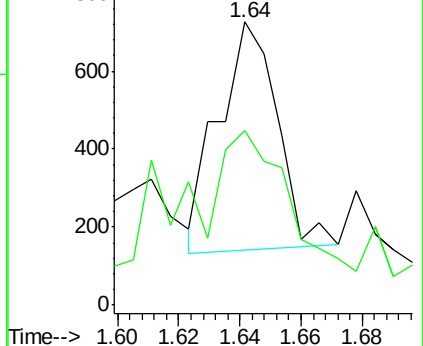
94 100

96 57.1 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 1.601 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX007358.D

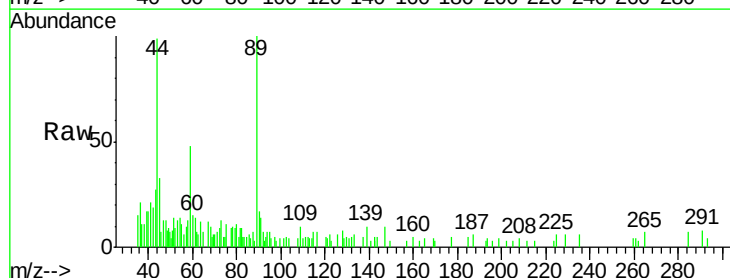
Acq: 04 Feb 2019 14:43

Tgt Ion: 59 Resp: 1709

Ion Ratio Lower Upper

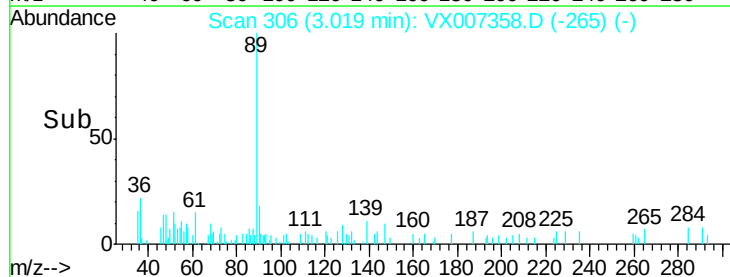
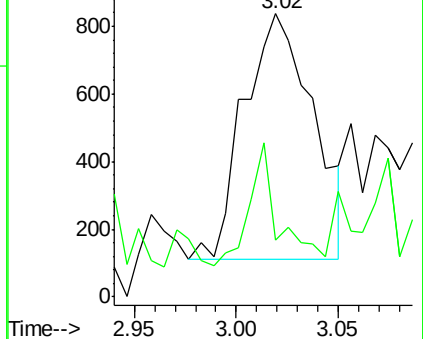
59 100

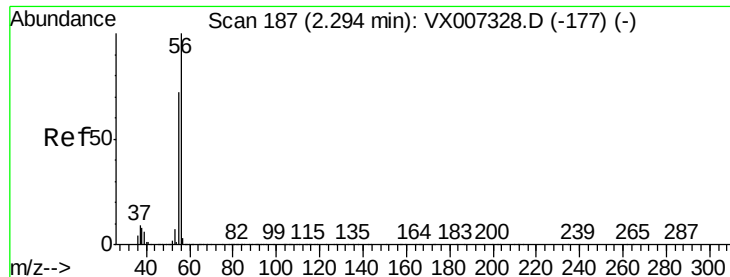
57 22.4 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

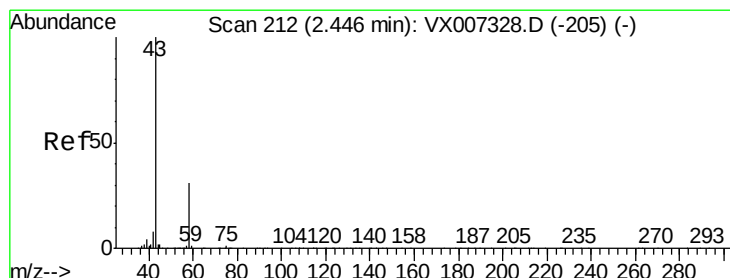
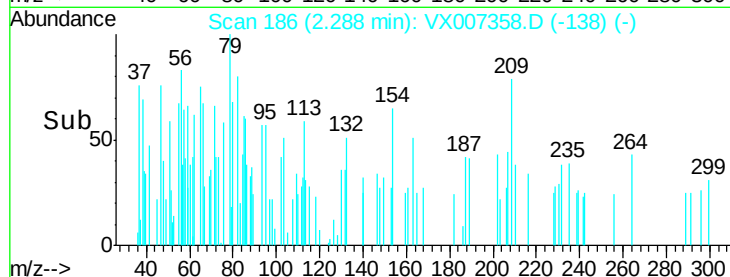
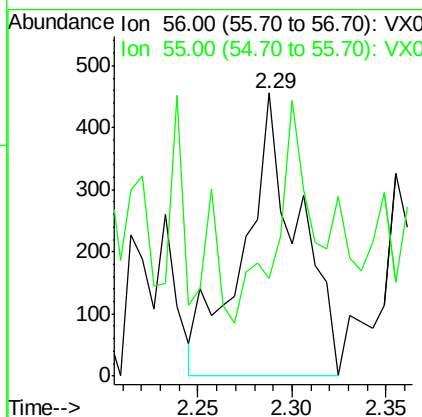
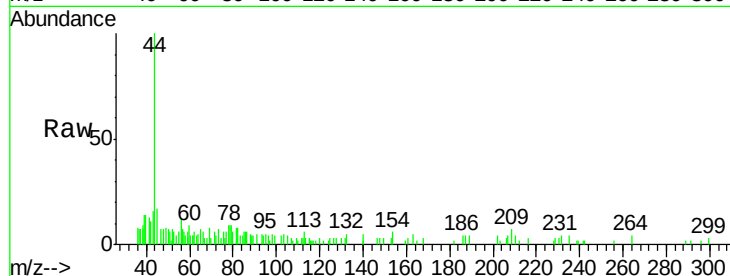




#13
Acrolein
Concen: 1.835 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

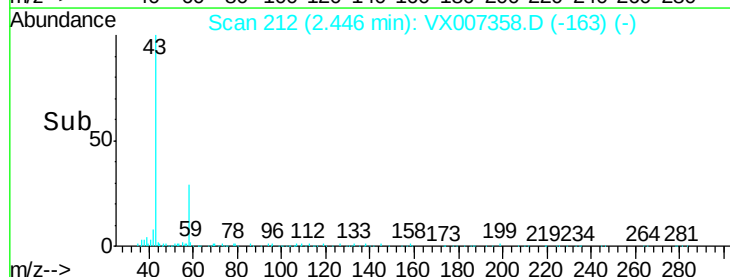
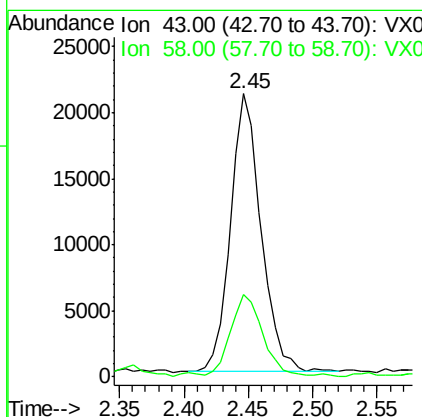
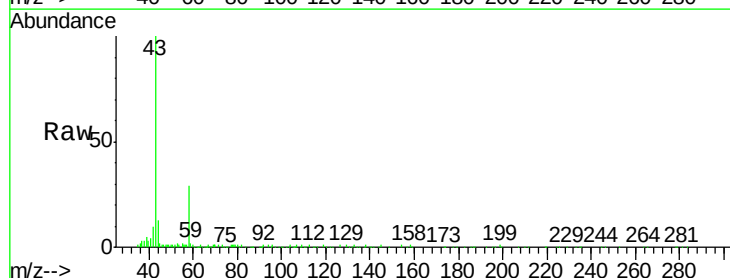
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#03

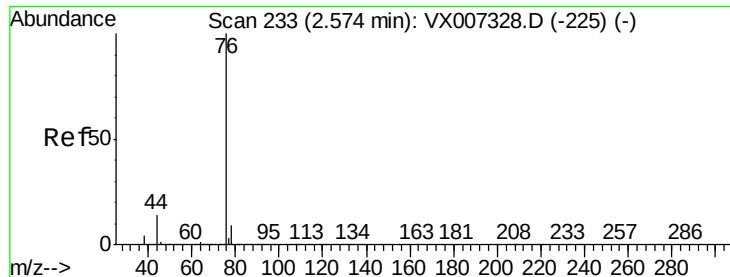
Tot Ion: 56 Resp: 919
Ion Ratio Lower Upper
56 100
55 48.4 56.9 85.3#



#16
Acetone
Concen: 14.726 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

Tgt Ion: 43 Resp: 34803
Ion Ratio Lower Upper
43 100
58 29.0 24.9 37.3





#17

Carbon Disulfide

Concen: 2.171 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

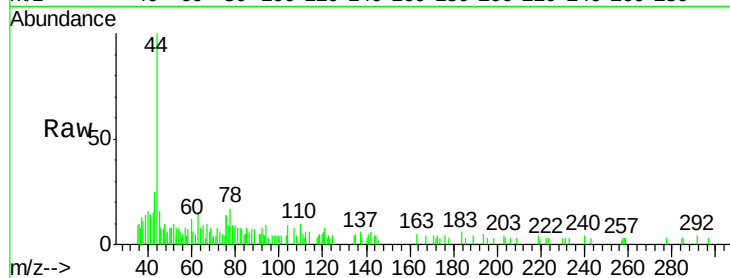
PB116780ZHE#03

Tot Ion: 76 Resp: 627

Ion Ratio Lower Upper

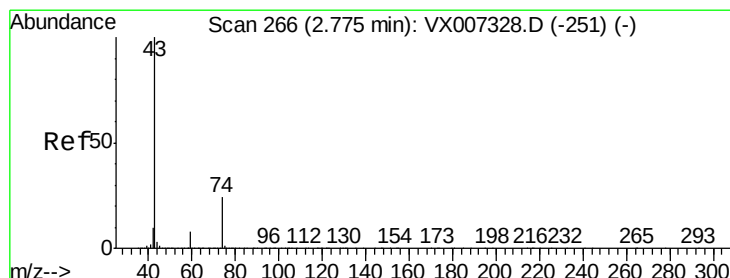
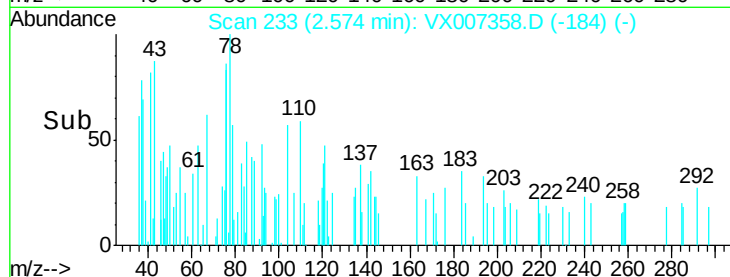
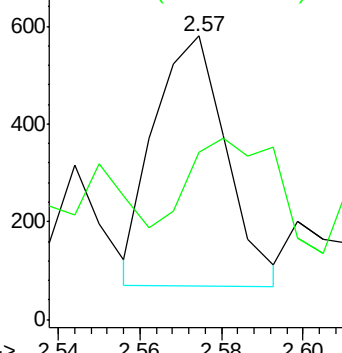
76 100

78 19.2 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 6.133 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007358.D

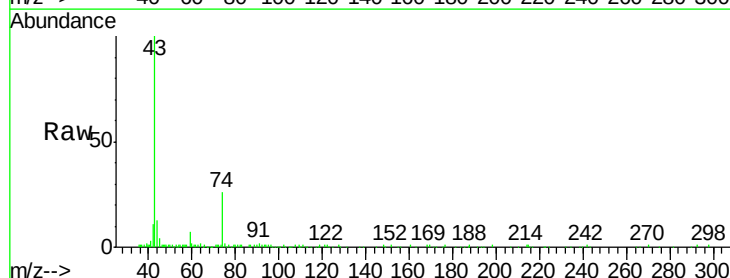
Acq: 04 Feb 2019 14:43

Tgt Ion: 43 Resp: 34523

Ion Ratio Lower Upper

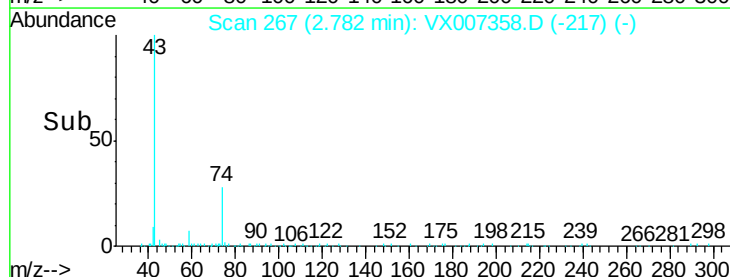
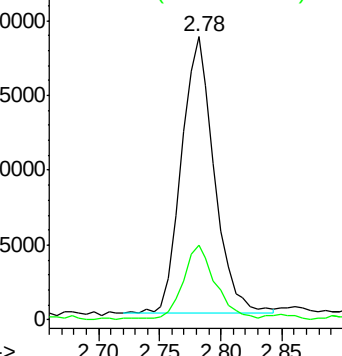
43 100

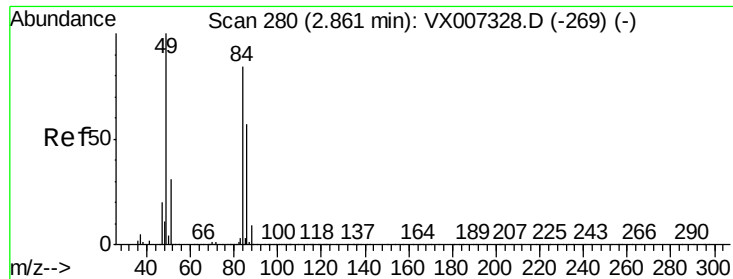
74 26.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

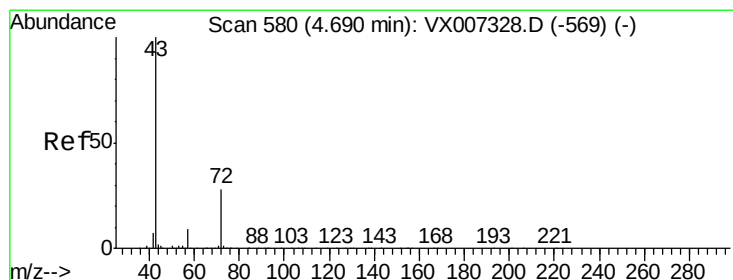
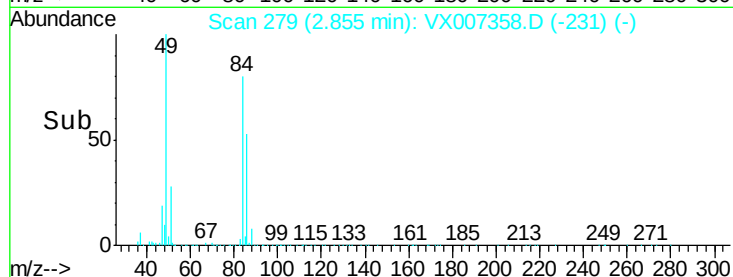
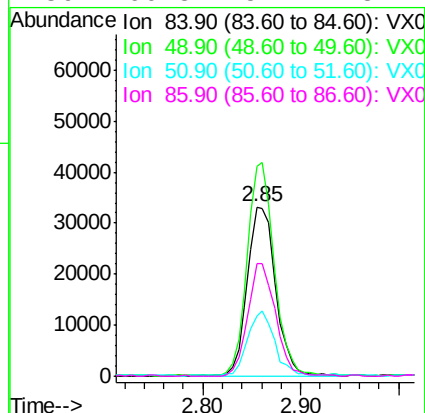
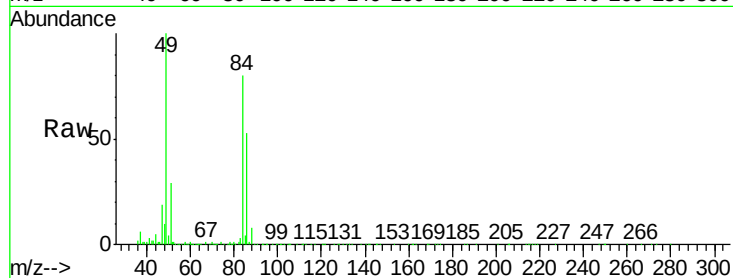




#20
Methvlene Chloride
Concen: 13.629 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

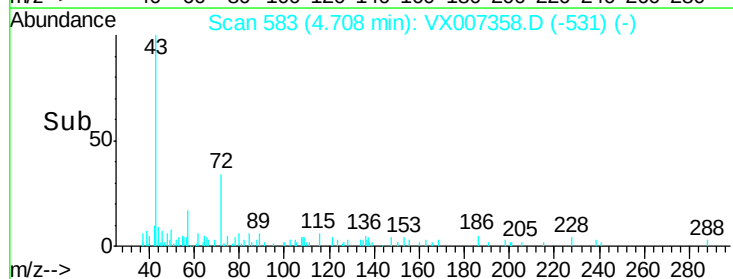
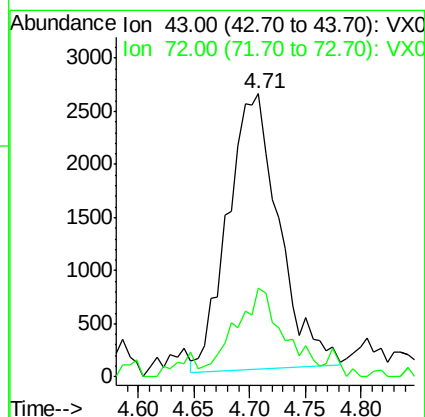
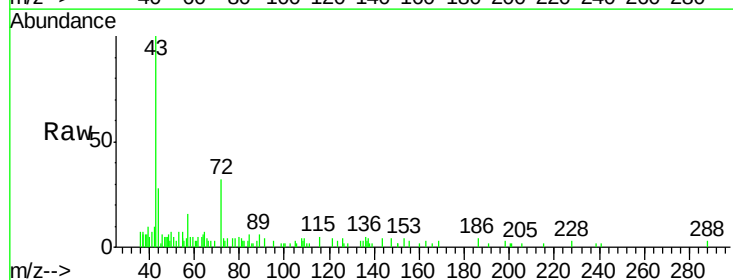
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#03

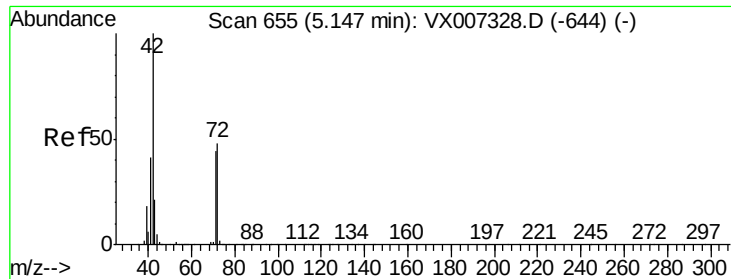
Tot Ion: 84 Resp: 67174
Ion Ratio Lower Upper
84 100
49 124.0 94.8 142.2
51 34.8 29.8 44.8
86 66.3 54.1 81.1



#25
2-Butanone
Concen: 2.475 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

Tgt Ion: 43 Resp: 8324
Ion Ratio Lower Upper
43 100
72 28.5 22.2 33.2

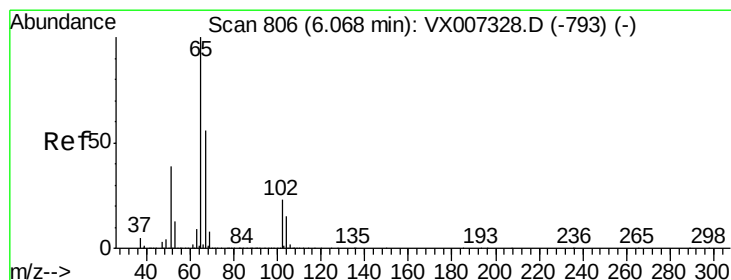
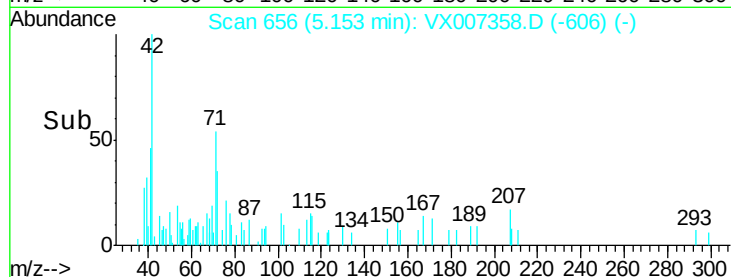
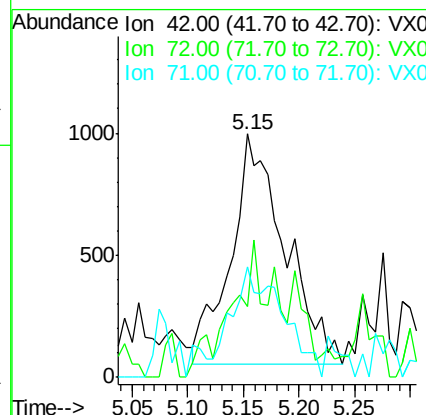
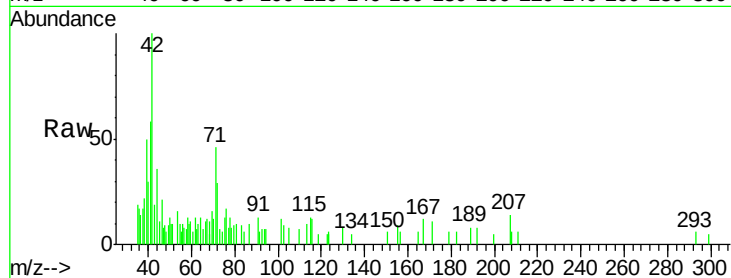




#29
Tetrahydrofuran
Concen: 1.504 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.01 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

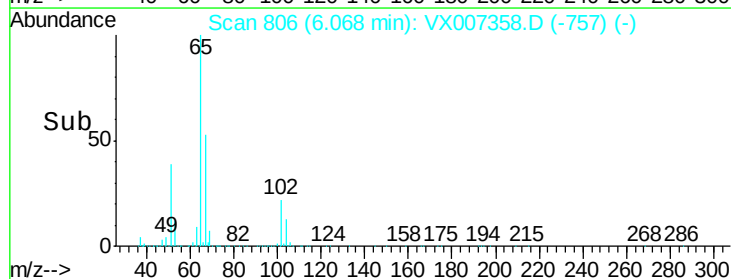
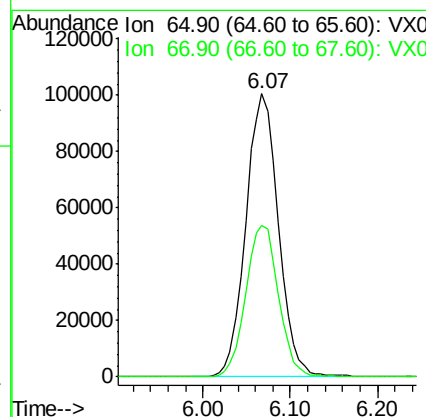
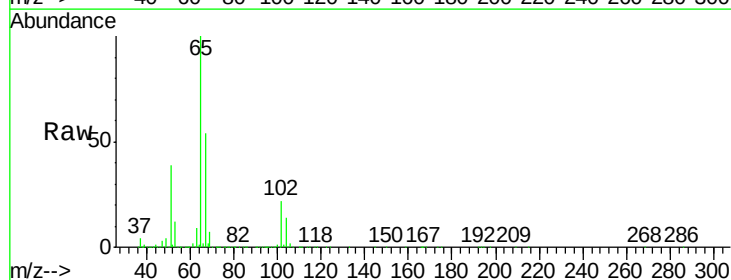
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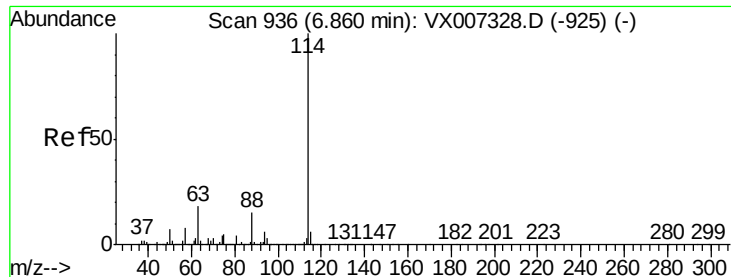
Tot Ion: 42 Resp: 3181
Ion Ratio Lower Upper
42 100
72 34.6 37.6 56.4#
71 18.4 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 50.344 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

Tgt Ion: 65 Resp: 259747
Ion Ratio Lower Upper
65 100
67 54.1 0.0 108.8

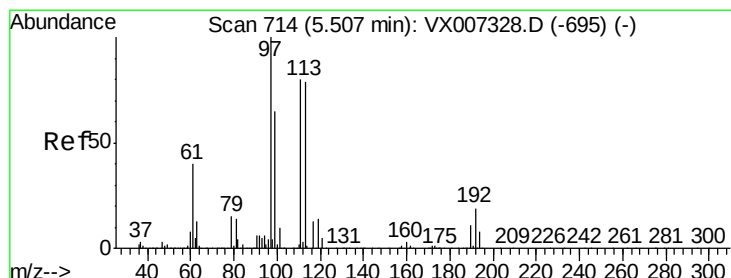
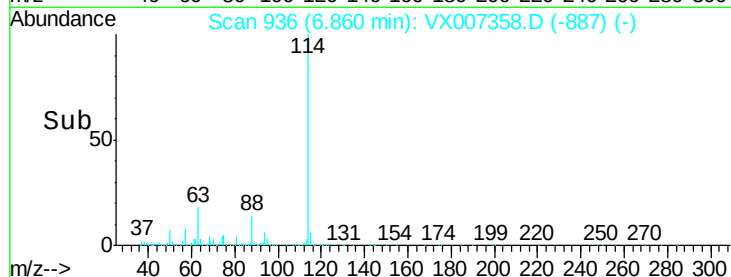
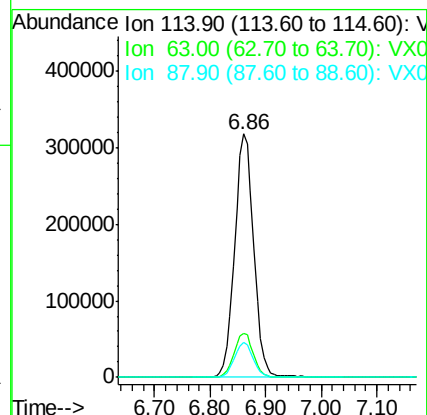
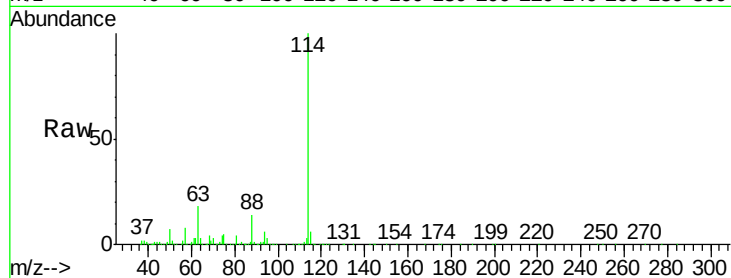




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

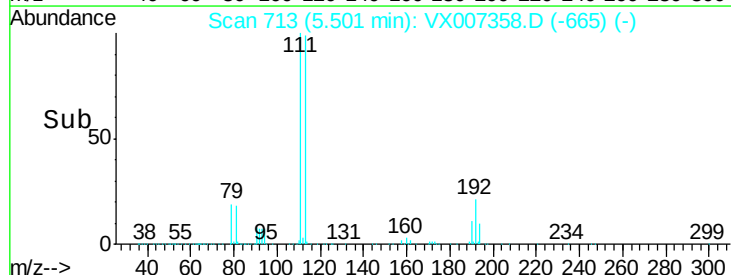
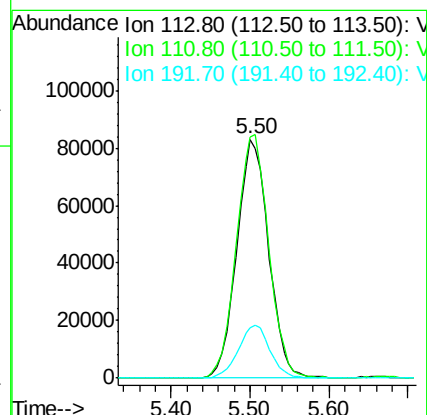
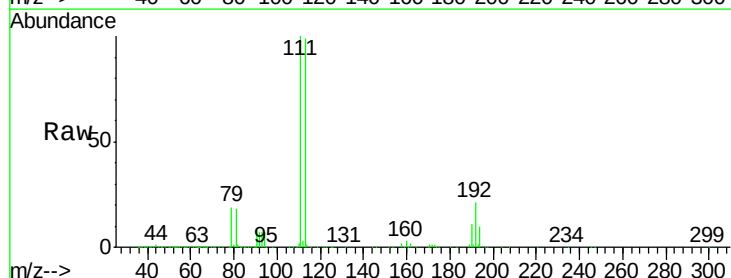
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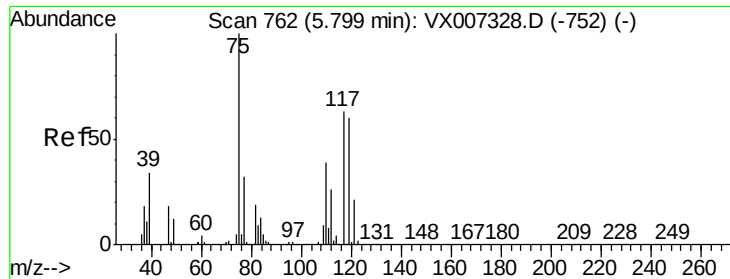
Tot Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.6
88	14.3	0.0	29.6



#35
Dibromofluoromethane
Concen: 47.685 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.01 min
Lab File: VX007358.D
Acq: 04 Feb 2019 14:43

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.8
192	22.0	18.5	27.7





#36

1,1-Dichloropropene

Concen: 4.680 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

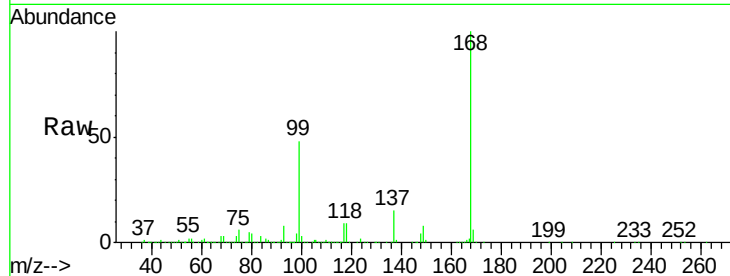
Tot Ion: 75 Resp: 31561

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

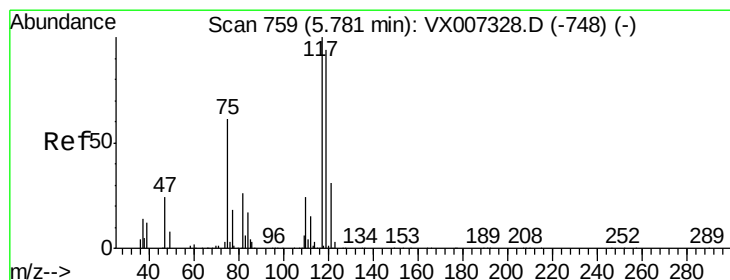
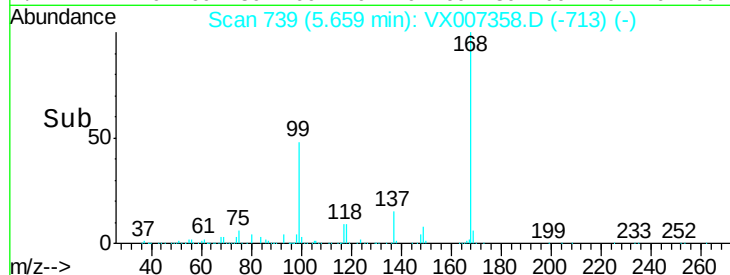
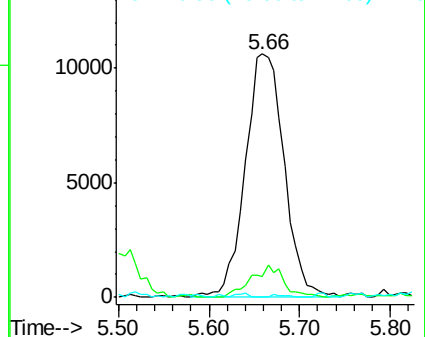
77 0.5 24.7 37.1#



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: 6.617 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

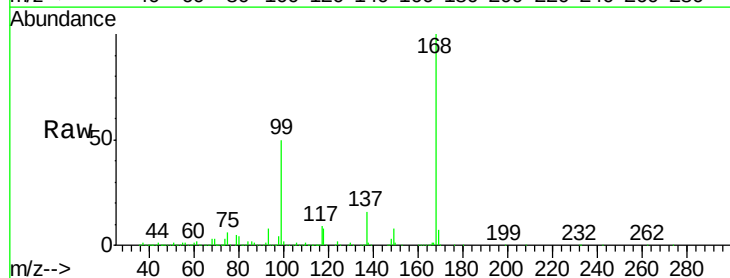
Tgt Ion: 117 Resp: 43291

Ion Ratio Lower Upper

117 100

119 4.5 75.3 112.9#

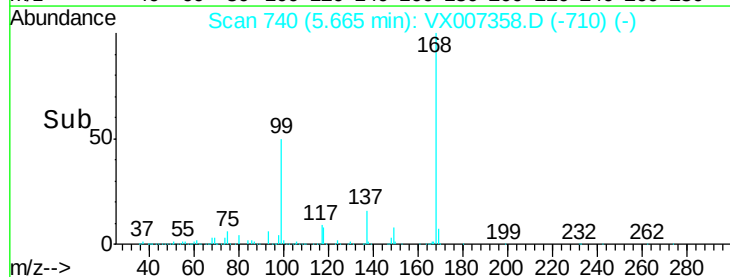
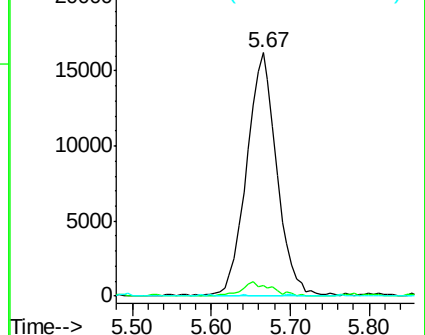
121 0.0 25.0 37.4#

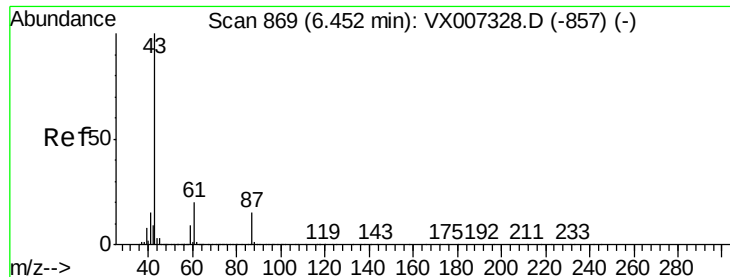


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 3.055 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

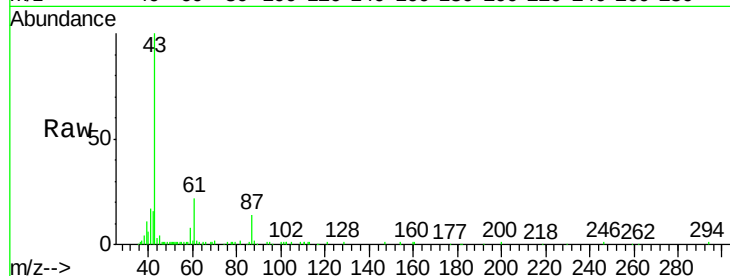
Tot Ion: 43 Resp: 32146

Ion Ratio Lower Upper

43 100

61 19.9 16.1 24.1

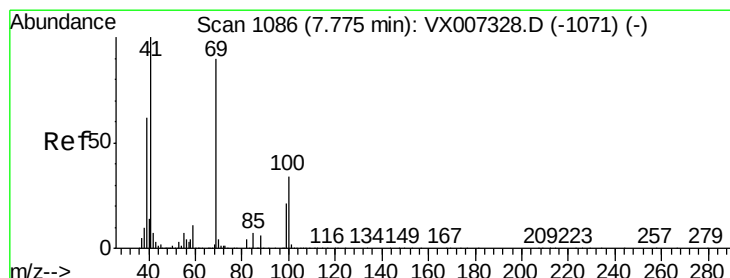
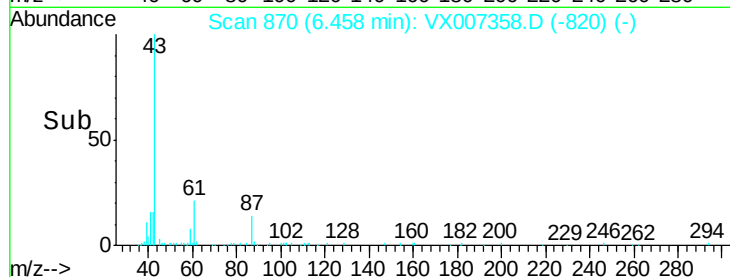
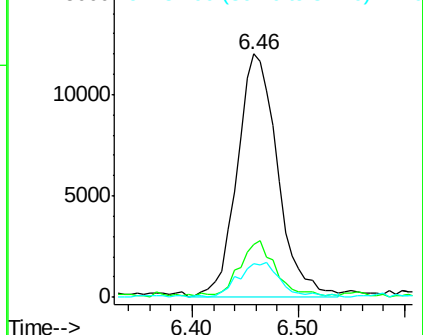
87 15.1 11.5 17.3



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: 3.190 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

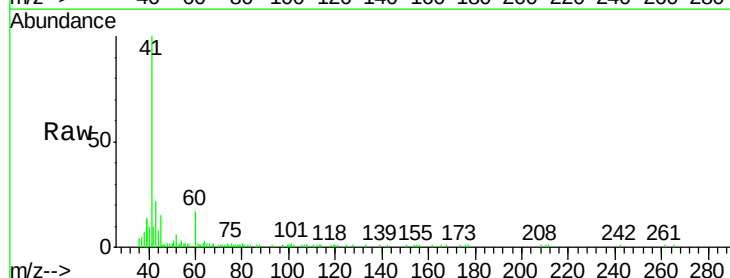
Tgt Ion: 41 Resp: 16791

Ion Ratio Lower Upper

41 100

69 0.8 70.2 105.4#

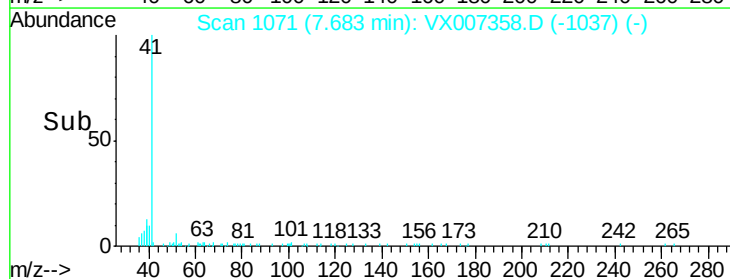
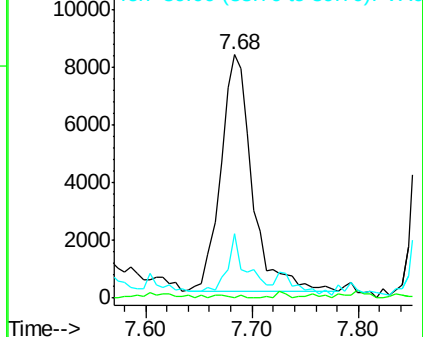
39 0.0 47.4 71.0#

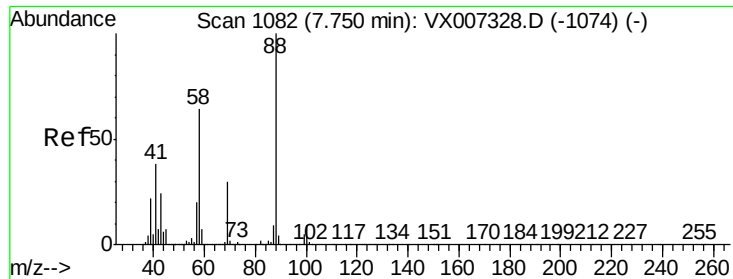


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 8.655 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

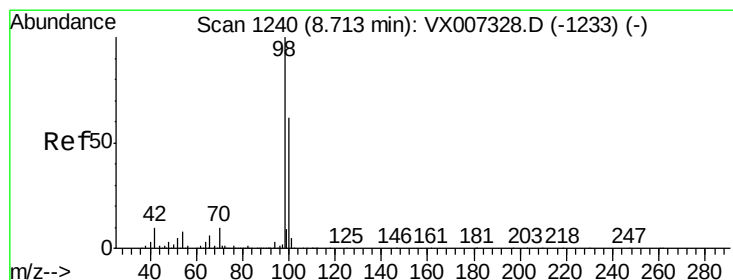
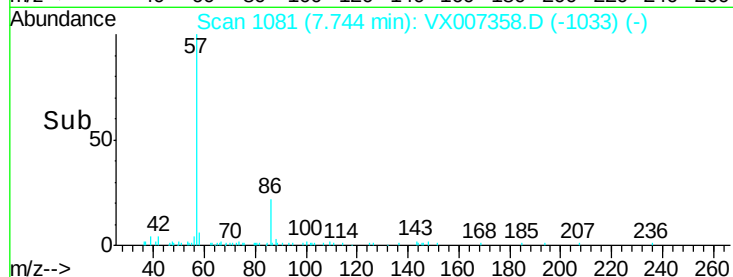
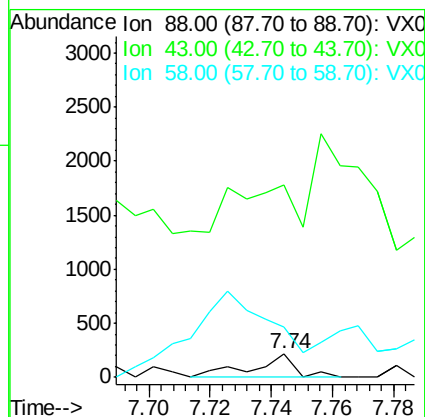
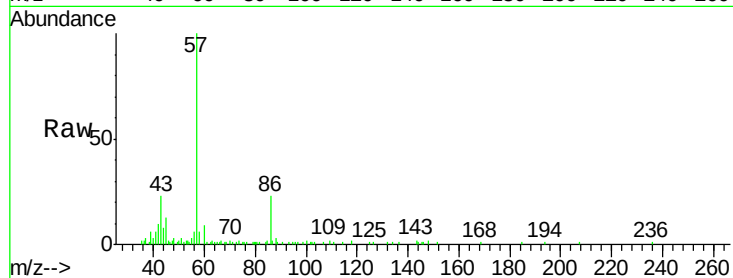
Tot Ion: 88 Resp: 214

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 717.8 53.0 79.4#



#50

Toluene-d8

Concen: 51.062 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007358.D

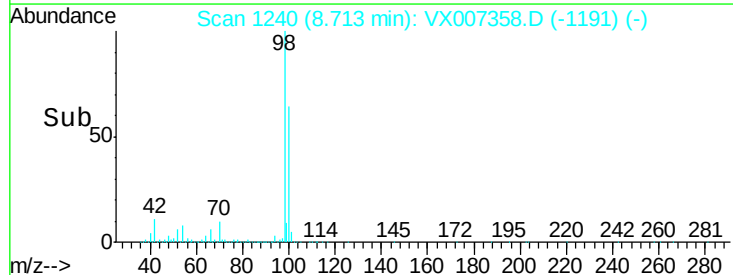
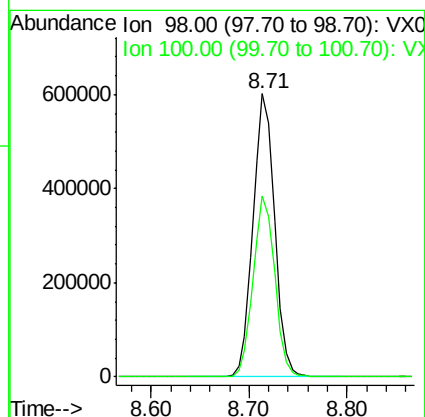
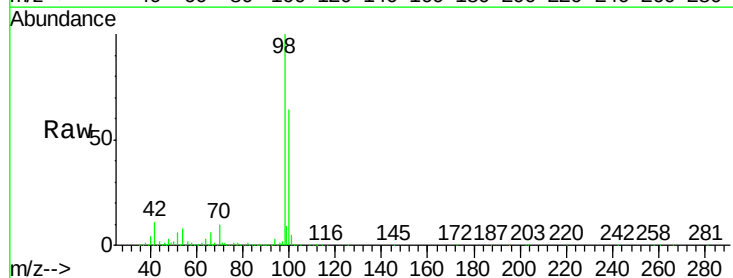
Acq: 04 Feb 2019 14:43

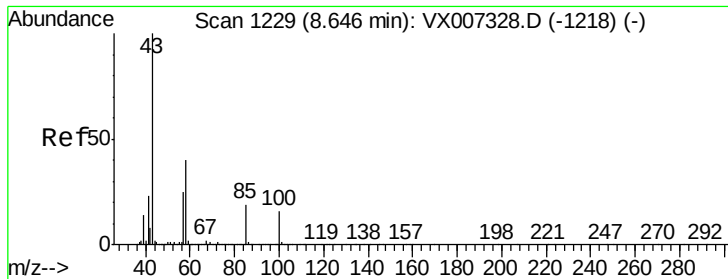
Tgt Ion: 98 Resp: 926429

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 24.278 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

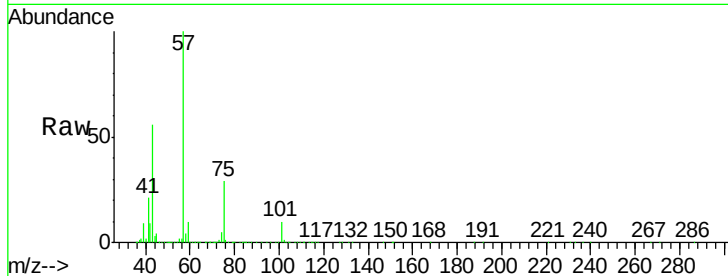
PB116780ZHE#03

Tot Ion: 43 Resp: 168157

Ion Ratio Lower Upper

43 100

58 9.0 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

120000

100000

80000

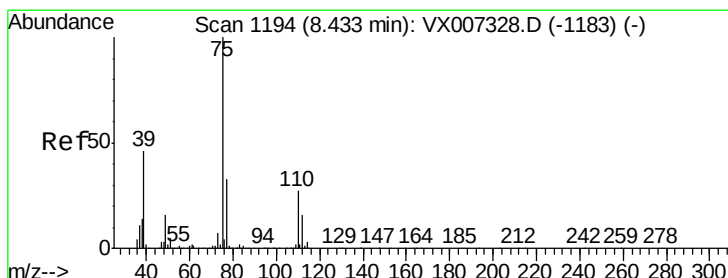
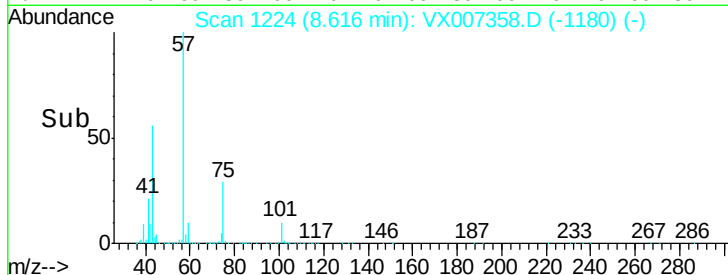
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 11.463 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

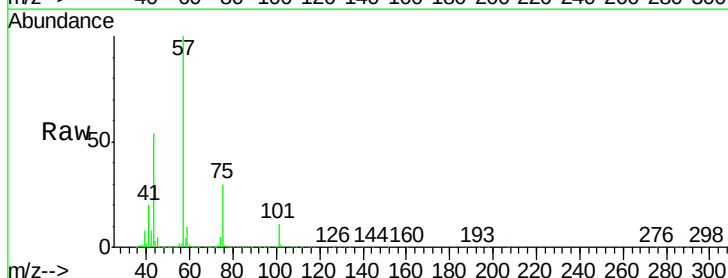
Tgt Ion: 75 Resp: 83007

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.4#

39 27.6 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

8.62

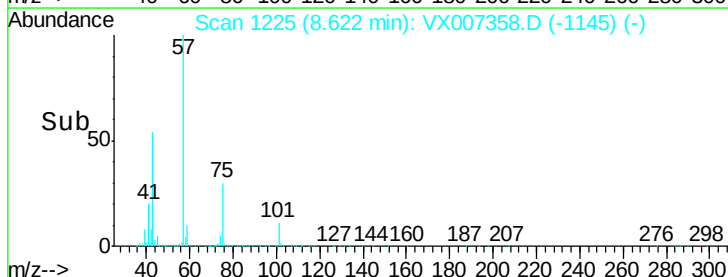
60000

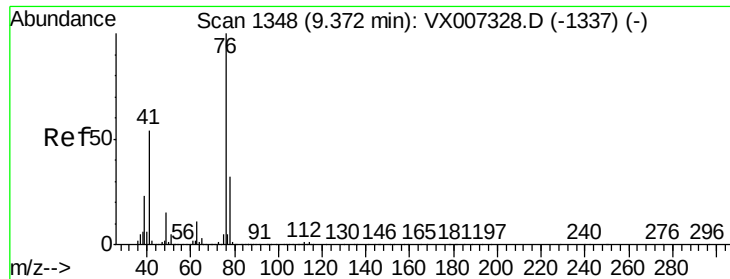
40000

20000

0

Time-->

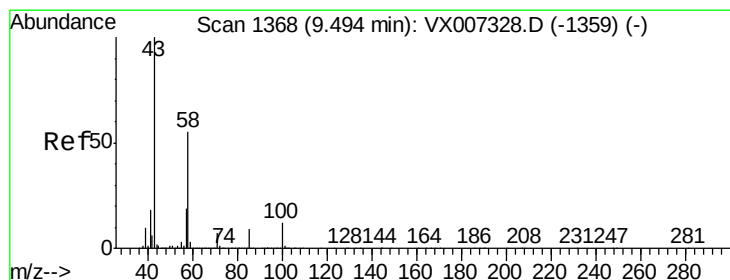
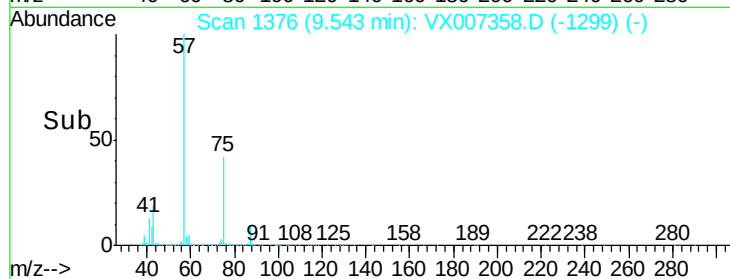
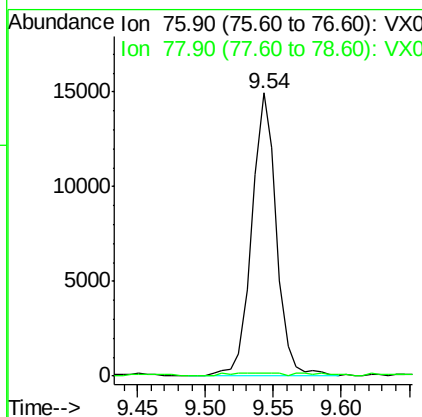
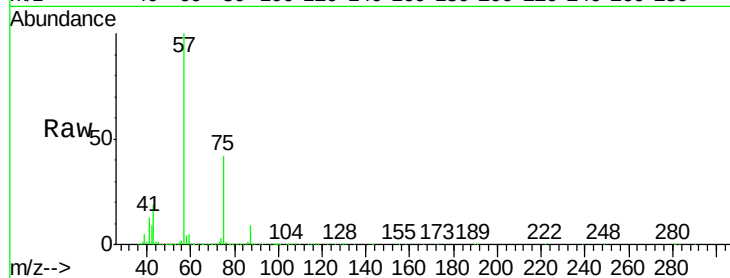




#57
 1,3-Dichloropropane
 Concen: 2.252 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007358.D
 Acq: 04 Feb 2019 14:43

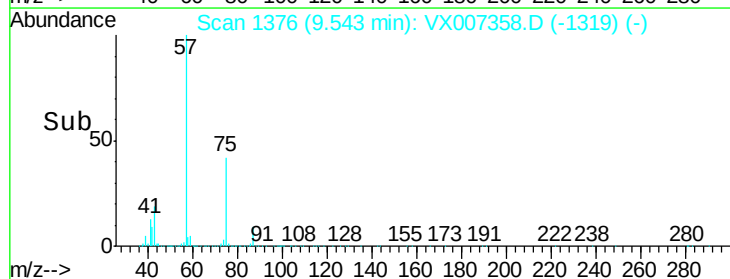
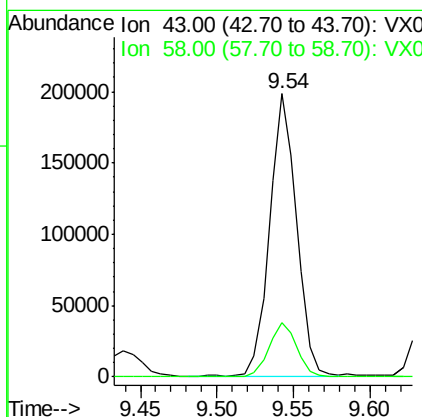
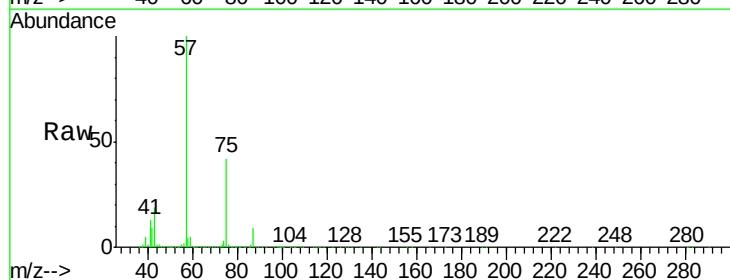
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#03

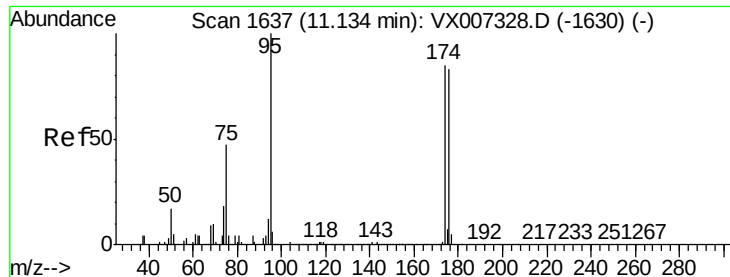
Tot Ion: 76 Resp: 19131
 Ion Ratio Lower Upper
 76 100
 78 2.3 25.8 38.8#



#59
 2-Hexanone
 Concen: 45.000 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.05 min
 Lab File: VX007358.D
 Acq: 04 Feb 2019 14:43

Tgt Ion: 43 Resp: 242543
 Ion Ratio Lower Upper
 43 100
 58 19.4 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 48.883 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

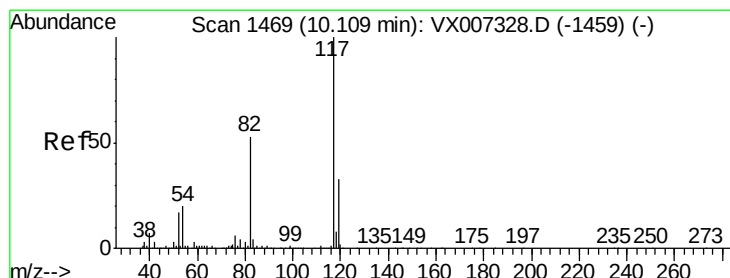
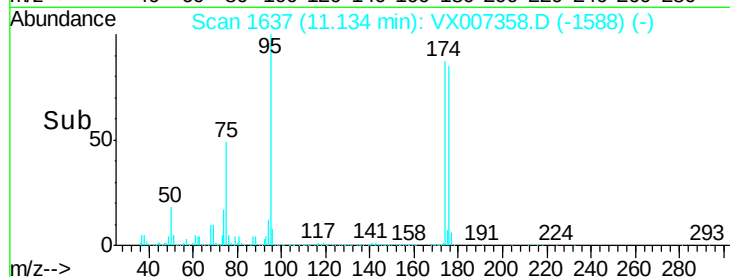
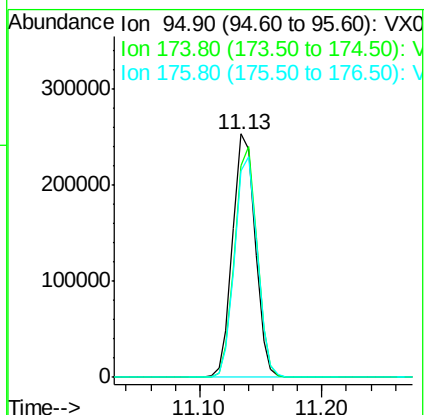
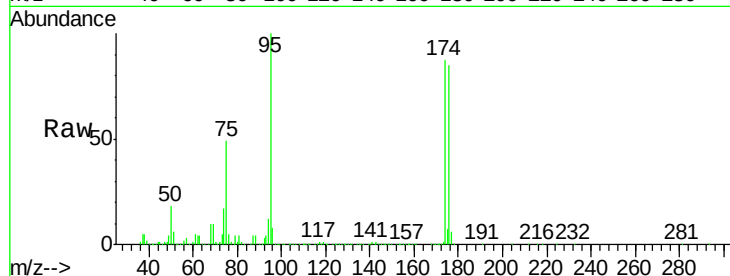
Tot Ion: 95 Resp: 323805

Ion Ratio Lower Upper

95 100

174 93.3 0.0 189.2

176 90.4 0.0 186.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

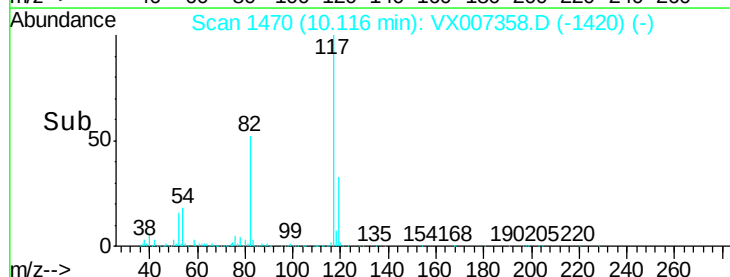
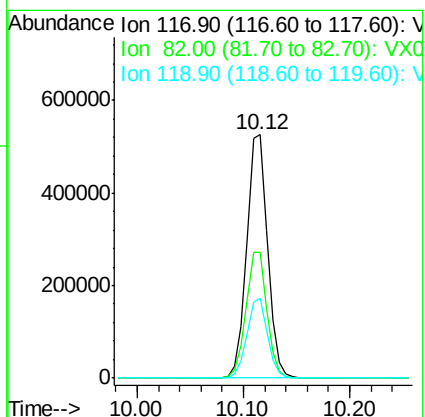
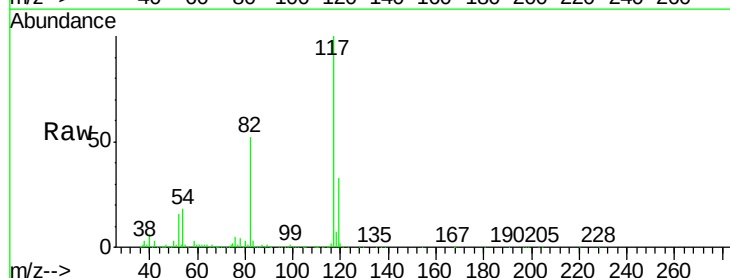
Tgt Ion: 117 Resp: 727104

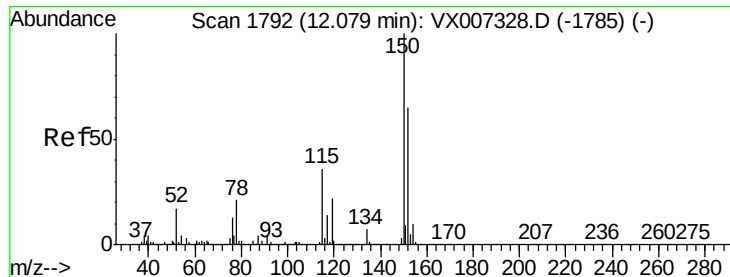
Ion Ratio Lower Upper

117 100

82 51.5 42.1 63.1

119 32.9 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

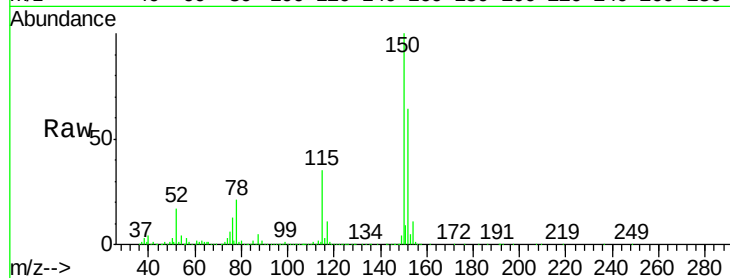
Tot Ion:152 Resp: 339885

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

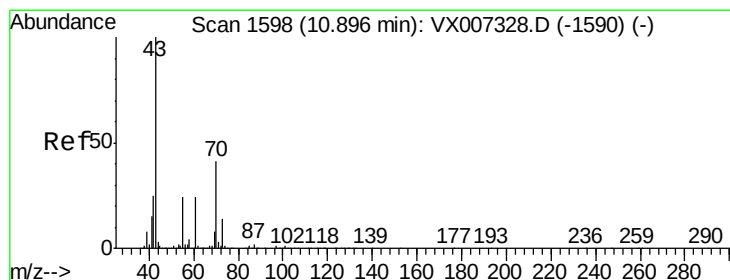
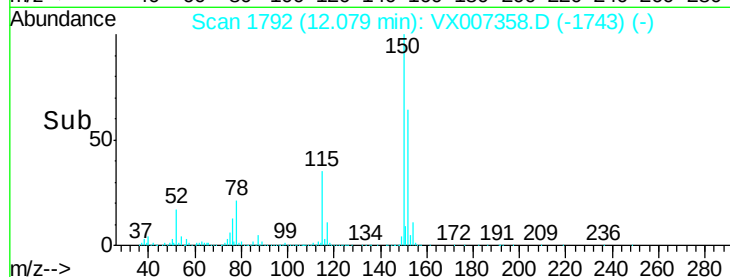
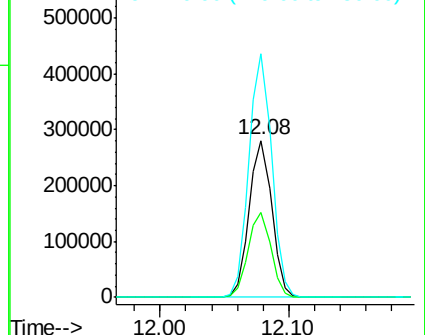
150 156.0 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.695 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Tgt Ion: 43 Resp: 24080

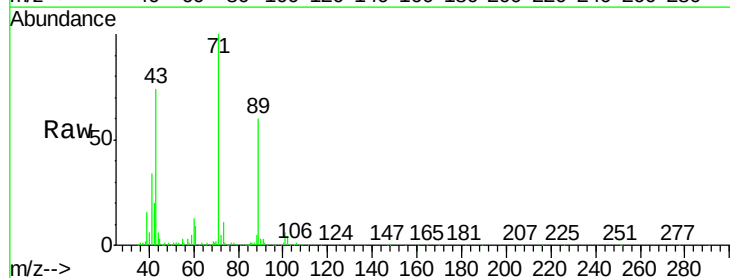
Ion Ratio Lower Upper

43 100

70 3.6 33.8 50.6#

55 6.3 19.5 29.3#

61 14.0 19.4 29.2#

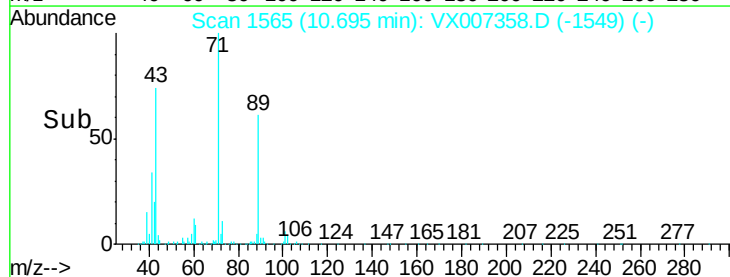
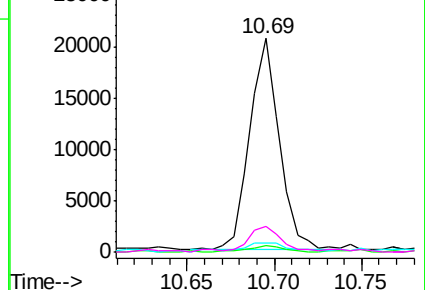


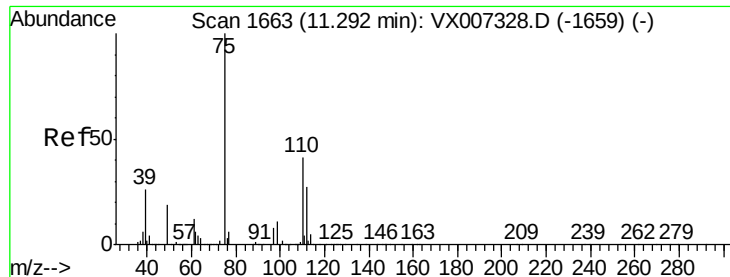
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

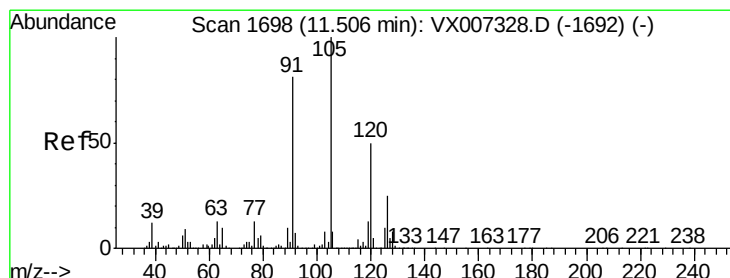
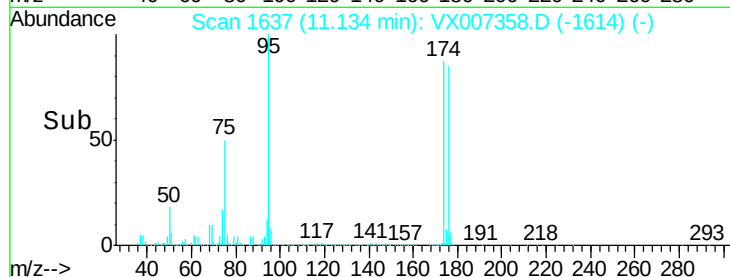
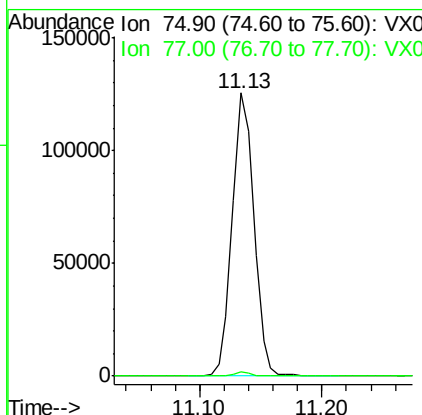
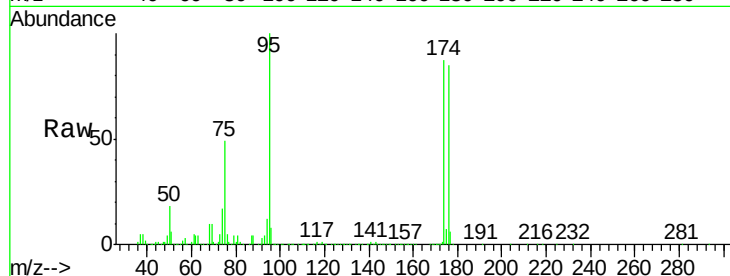




#76
 1,2,3-Trichloropropane
 Concen: 23.266 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007358.D
 Acq: 04 Feb 2019 14:43

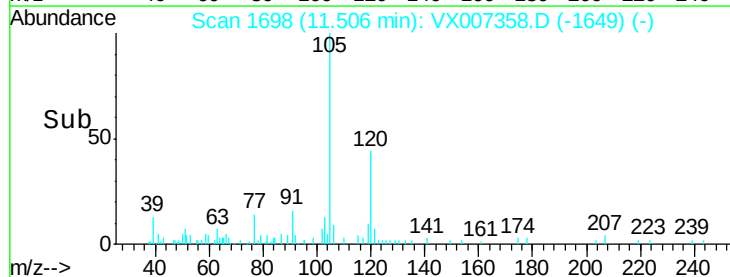
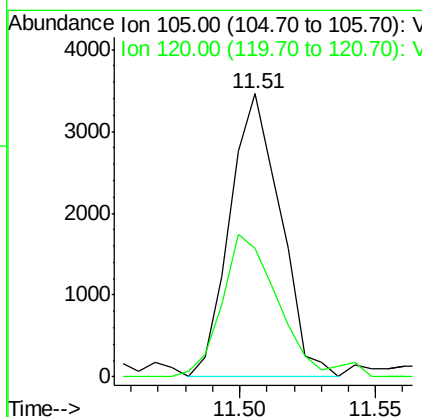
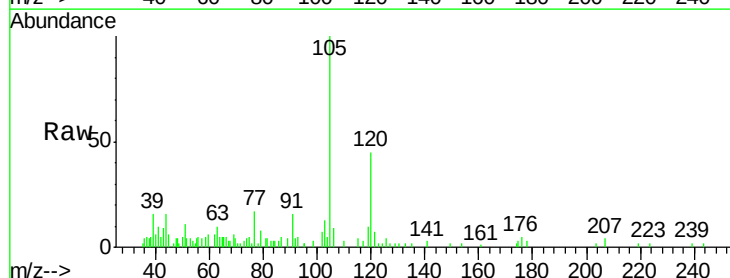
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#03

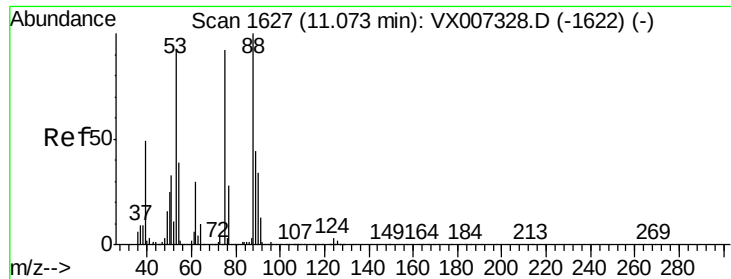
Tot Ion: 75 Resp: 153815
 Ion Ratio Lower Upper
 75 100
 77 1.4 23.0 69.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.236 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX007358.D
 Acq: 04 Feb 2019 14:43

Tgt Ion: 105 Resp: 4462
 Ion Ratio Lower Upper
 105 100
 120 56.9 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.060 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007358.D

Acq: 04 Feb 2019 14:43

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#03

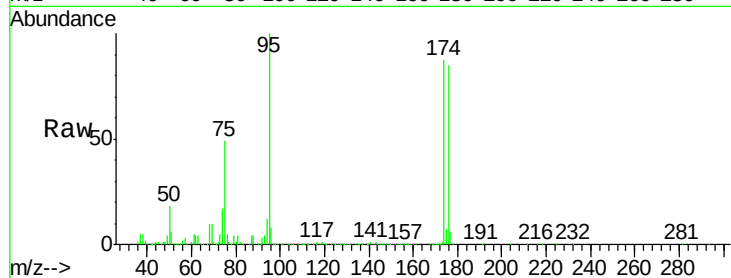
Tot Ion: 75 Resp: 153815

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#



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

