

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX021819\
 Data File : VX007588.D
 Acq On : 18 Feb 2019 15:05
 Operator : JC/SP
 Sample : PB117159ZHE#19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117159ZHE#19

Quant Time: Feb 19 04:12:22 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	472856	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	761135	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	728897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	340040	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	270299	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
35) Dibromofluoromethane	5.51	113	251835	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
50) Toluene-d8	8.71	98	929625	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.13	95	318968	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	

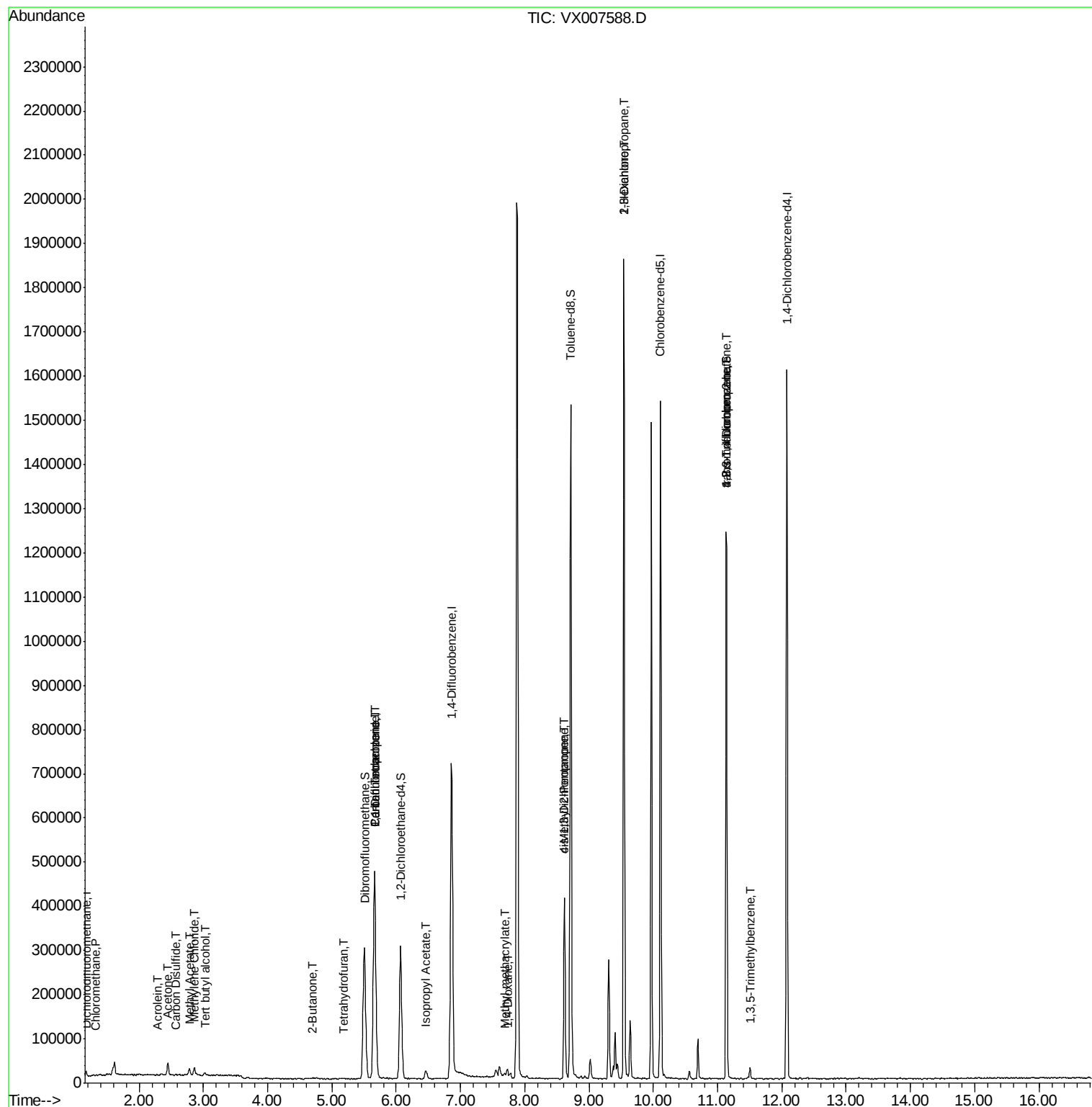
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.19	85	186	0.209	ug/l	75
3) Chloromethane	1.33	50	1647	0.309	ug/l #	78
5) Bromomethane	1.65	94	465	Below Cal	#	26
11) Tert butyl alcohol	3.03	59	3003	2.891	ug/l #	94
13) Acrolein	2.29	56	180	0.370	ug/l #	9
16) Acetone	2.45	43	30885	13.434	ug/l	100
17) Carbon Disulfide	2.57	76	1006	2.203	ug/l #	27
18) Methyl Acetate	2.78	43	18257	3.605	ug/l	93
20) Methylene Chloride	2.86	84	8026	1.326	ug/l	94
25) 2-Butanone	4.70	43	4385	1.340	ug/l #	82
29) Tetrahydrofuran	5.17	42	2208	1.073	ug/l #	31
36) 1,1-Dichloropropene	5.66	75	30342	4.443	ug/l #	50
38) Carbon Tetrachloride	5.67	117	42826	6.464	ug/l #	18
43) Isopropyl Acetate	6.46	43	24750	2.323	ug/l	94
48) Methyl methacrylate	7.68	41	12060	2.263	ug/l #	13
49) 1,4-Dioxane	7.74	88	220	8.681	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	131026	18.679	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	63984	8.725	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	15969	1.856	ug/l #	45
59) 2-Hexanone	9.54	43	201711	36.953	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	156328	23.635	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	10316	0.546	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	156328	71.105	ug/l #	9

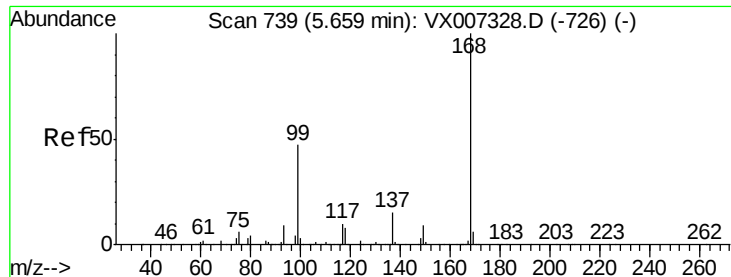
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 19 04:12:22 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: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

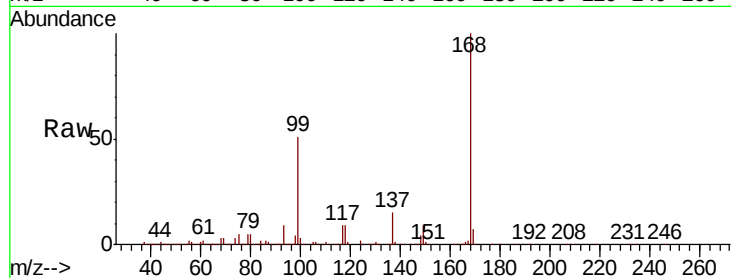
PB117159ZHE#19

Tgt Ion:168 Resp: 472856

Ion Ratio Lower Upper

168 100

99 50.7 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

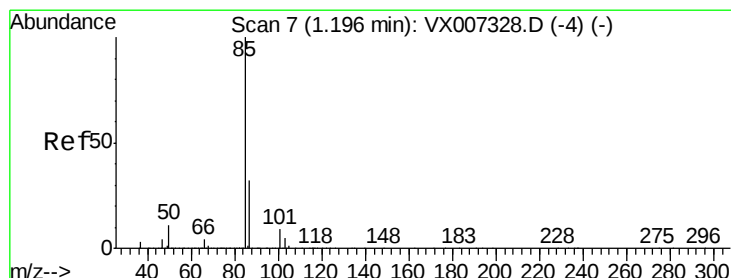
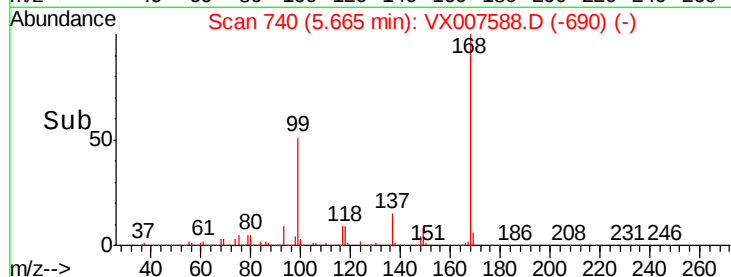
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.209 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.01 min

Lab File: VX007588.D

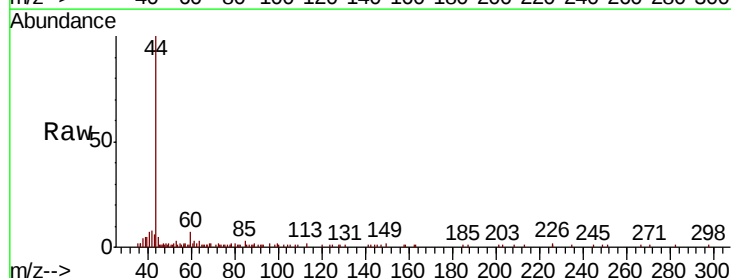
Acq: 18 Feb 2019 15:05

Tgt Ion: 85 Resp: 186

Ion Ratio Lower Upper

85 100

87 17.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

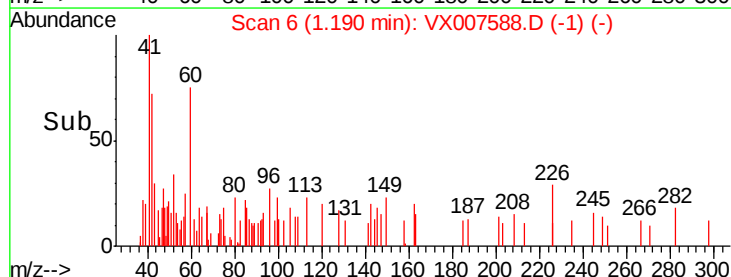
300

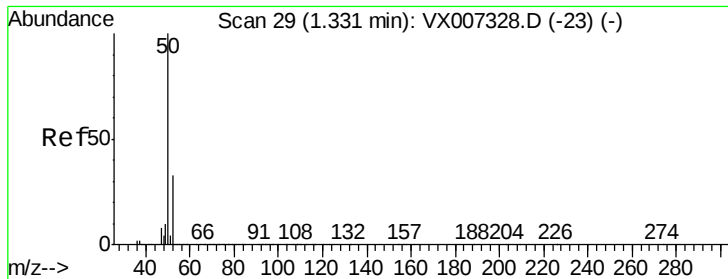
200

100

0

Time-->





#3

Chloromethane

Concen: 0.309 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

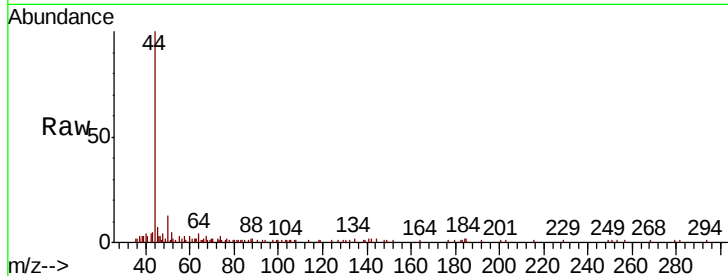
PB117159ZHE#19

Tgt Ion: 50 Resp: 1647

Ion Ratio Lower Upper

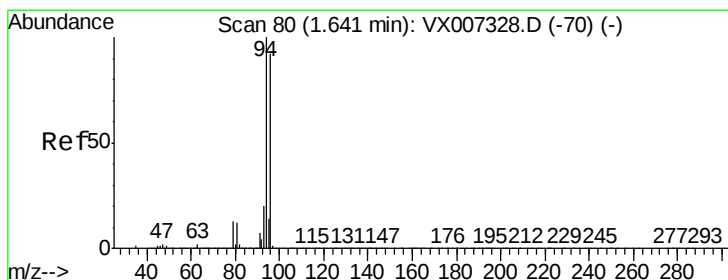
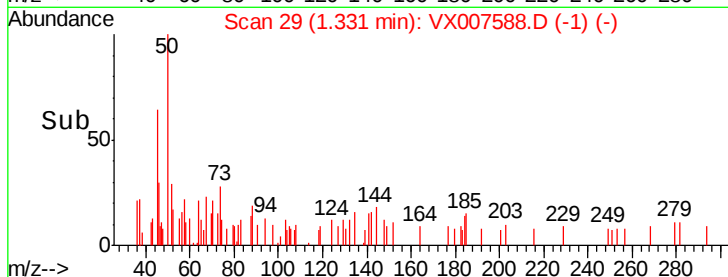
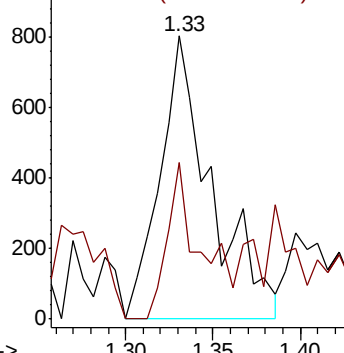
50 100

52 45.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007588.D

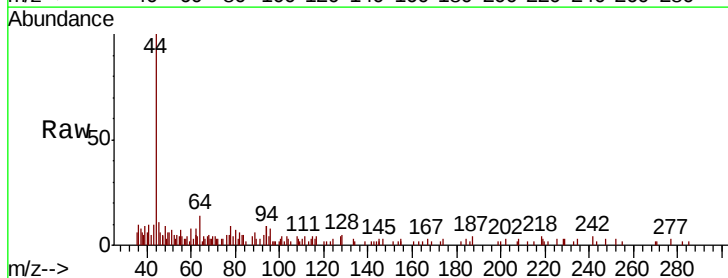
Acq: 18 Feb 2019 15:05

Tgt Ion: 94 Resp: 465

Ion Ratio Lower Upper

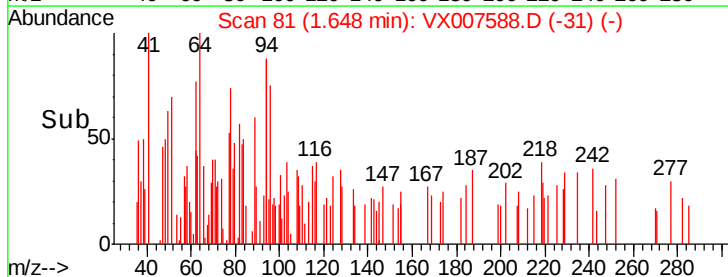
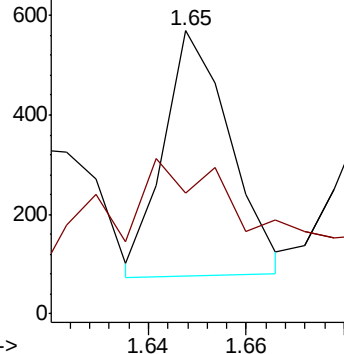
94 100

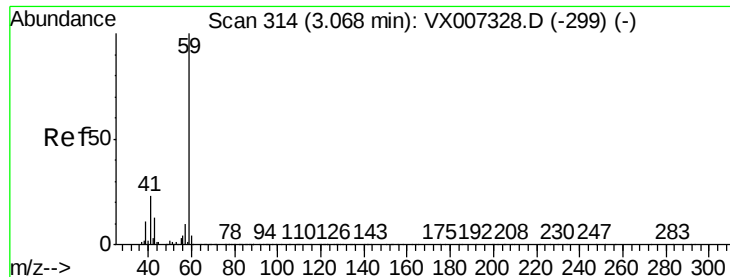
96 21.4 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



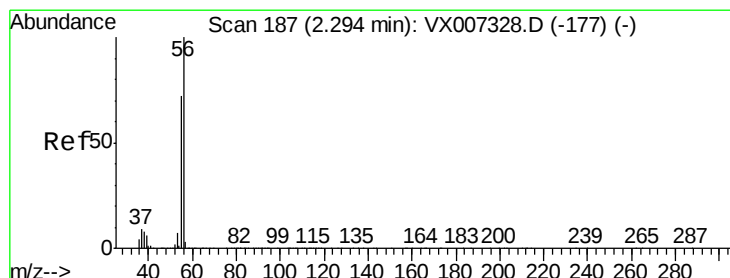
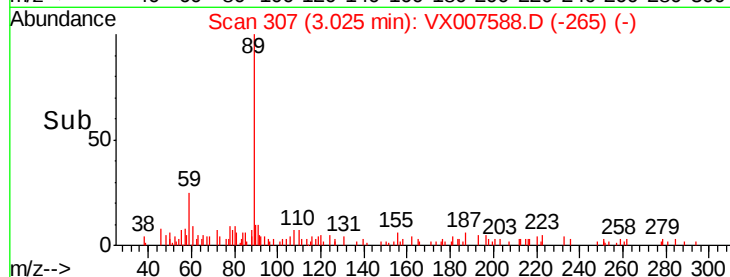
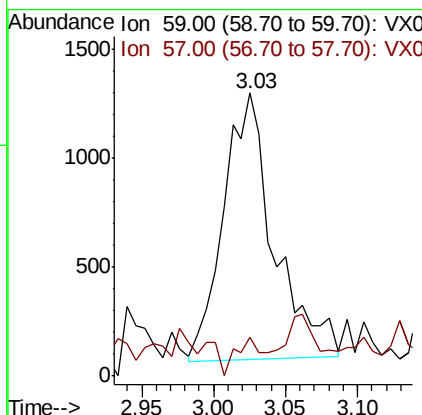
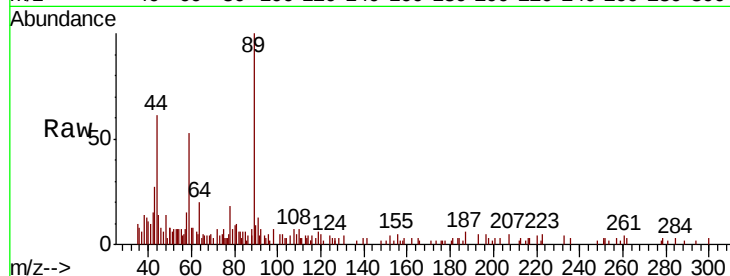


#11

Tert butyl alcohol
Concen: 2.891 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.04 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

Instrument :
MSVOA_X
ClientSampleId :
PB117159ZHE#19

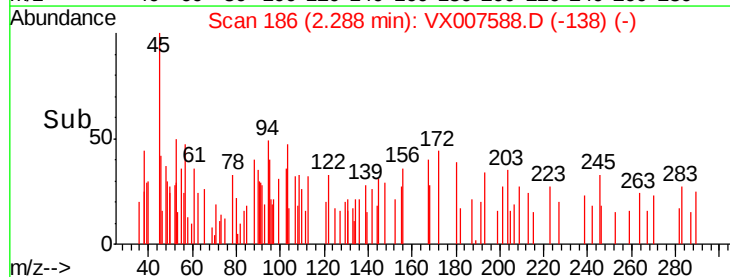
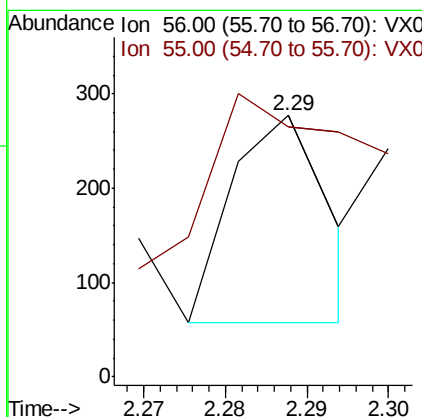
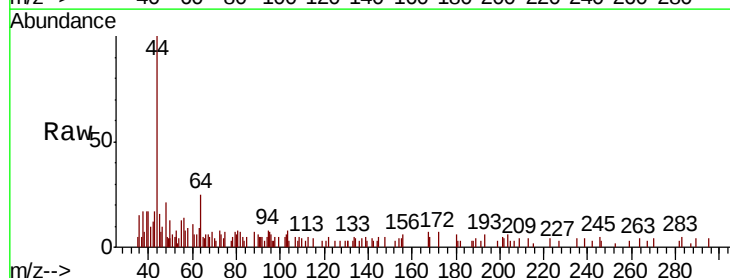
Tgt Ion: 59 Resp: 3003
Ion Ratio Lower Upper
59 100
57 7.7 8.1 12.1#

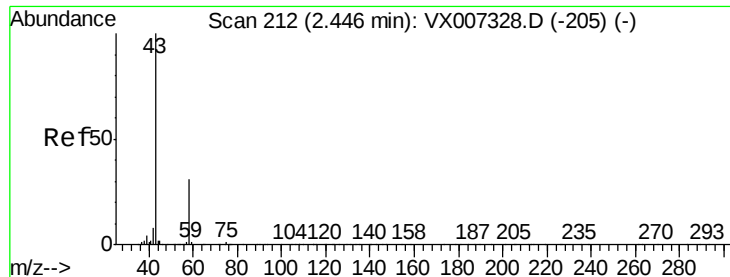


#13

Acrolein
Concen: 0.370 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 146.7 56.9 85.3#





#16

Acetone

Concen: 13.434 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

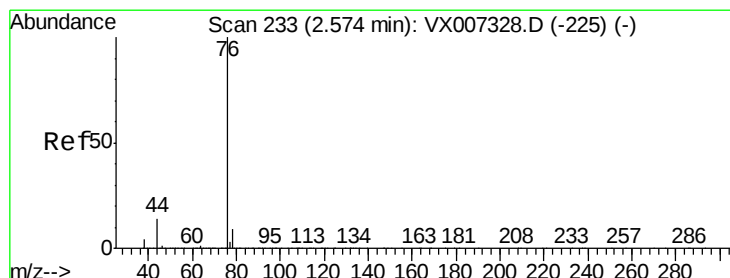
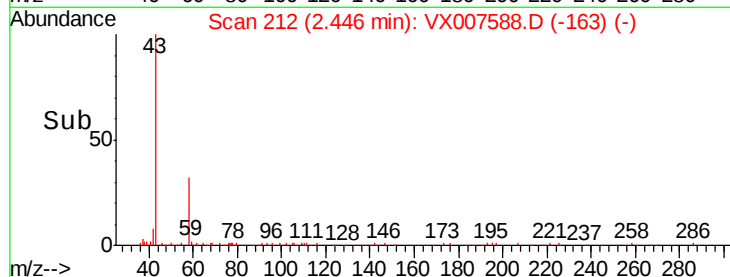
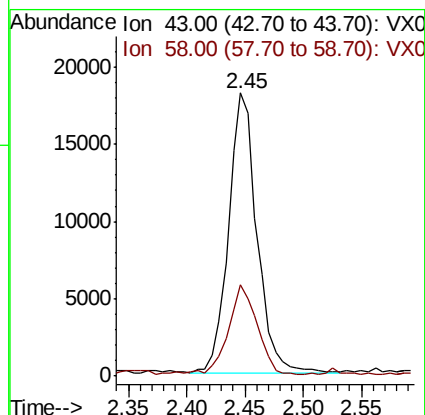
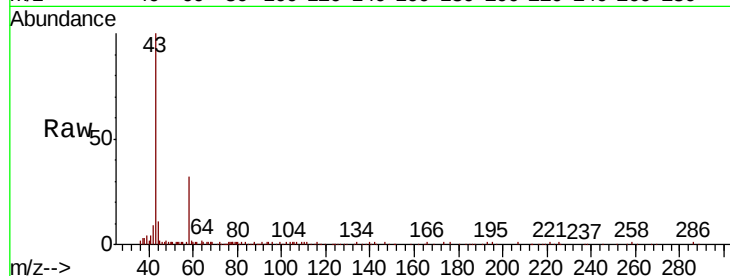
PB117159ZHE#19

Tgt Ion: 43 Resp: 30885

Ion Ratio Lower Upper

43 100

58 31.3 24.9 37.3



#17

Carbon Disulfide

Concen: 2.203 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007588.D

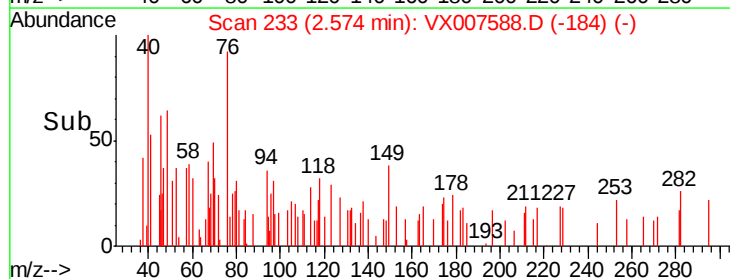
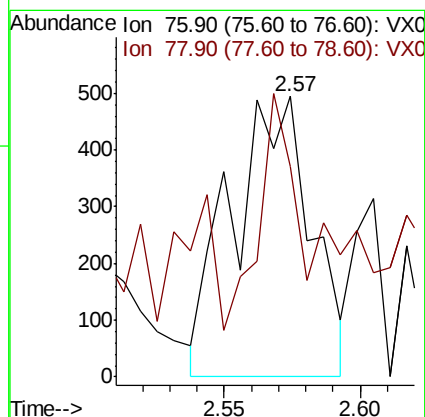
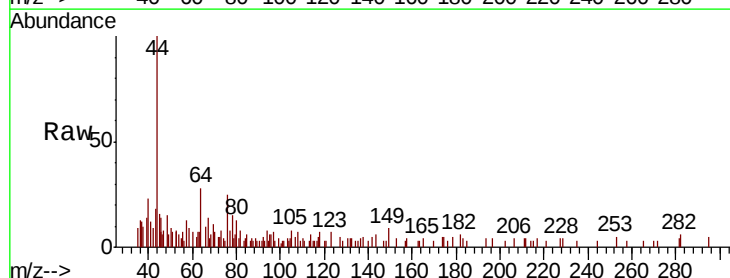
Acq: 18 Feb 2019 15:05

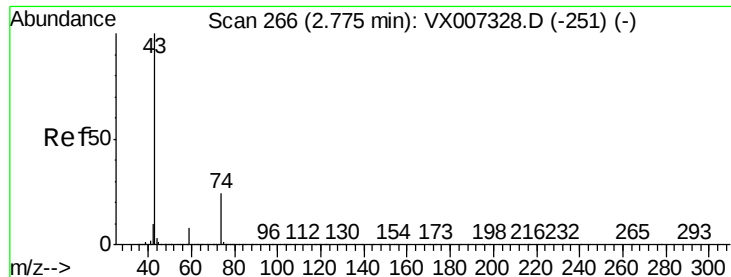
Tgt Ion: 76 Resp: 1006

Ion Ratio Lower Upper

76 100

78 35.1 7.1 10.7#

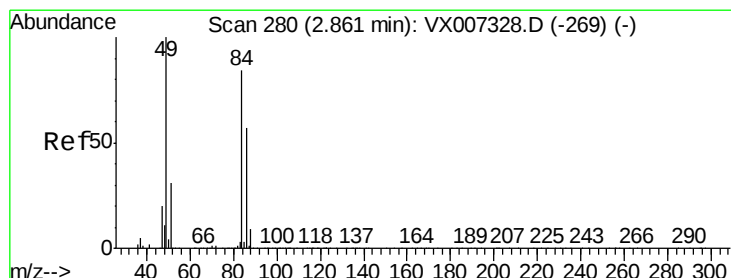
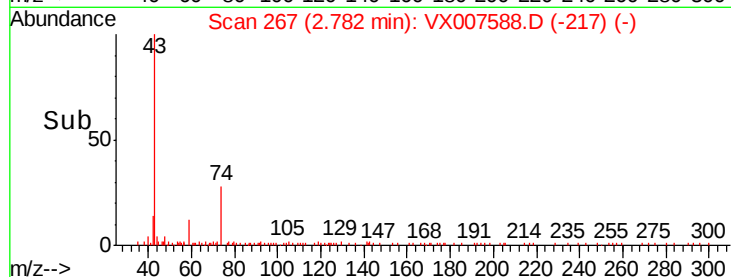
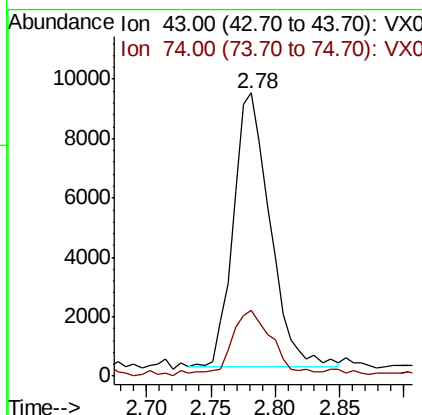
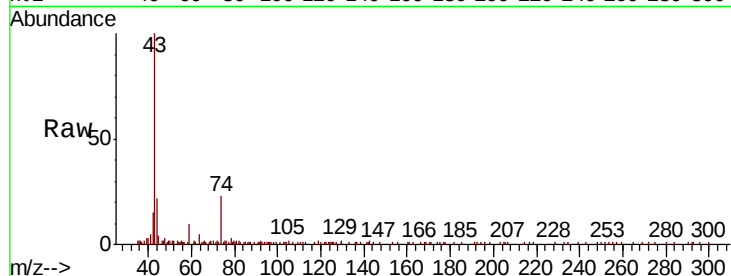




#18
Methyl Acetate
Concen: 3.605 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

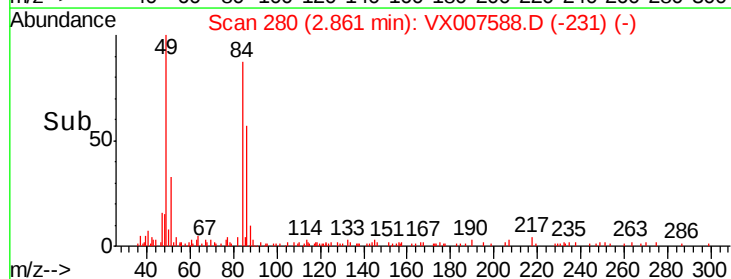
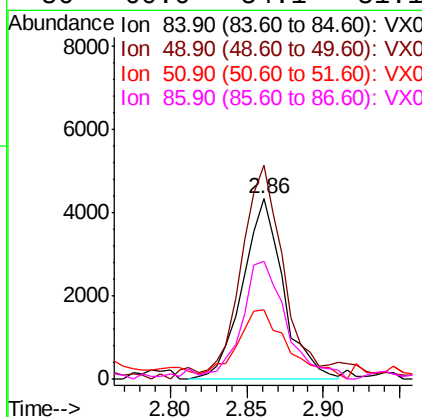
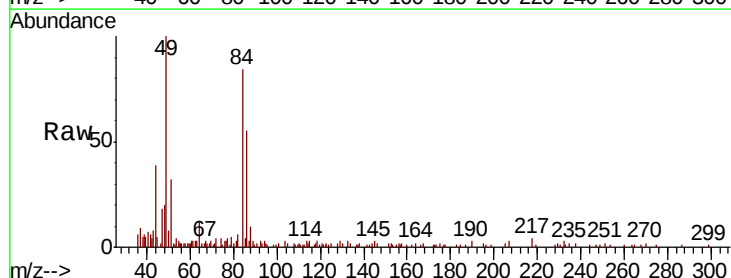
Instrument :
MSVOA_X
ClientSampleId :
PB117159ZHE#19

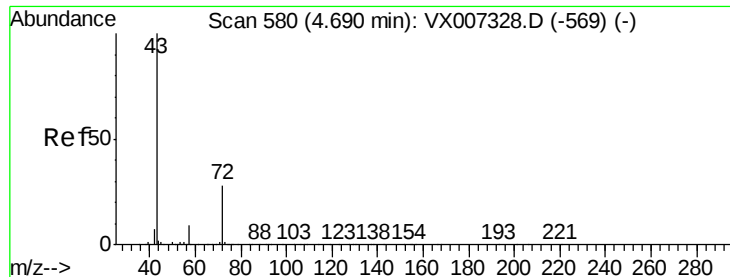
Tgt Ion: 43 Resp: 18257
Ion Ratio Lower Upper
43 100
74 27.8 19.4 29.2



#20
Methylene Chloride
Concen: 1.326 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

Tgt Ion: 84 Resp: 8026
Ion Ratio Lower Upper
84 100
49 112.3 94.8 142.2
51 35.3 29.8 44.8
86 60.0 54.1 81.1





#25

2-Butanone

Concen: 1.340 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

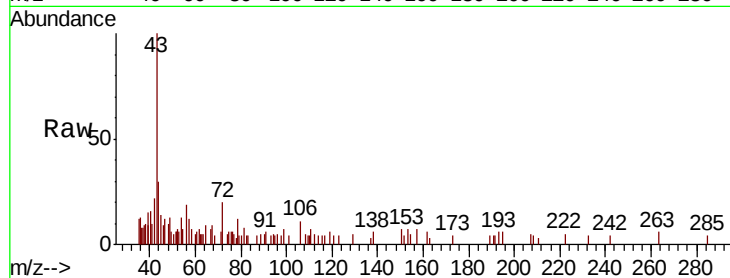
PB117159ZHE#19

Tgt Ion: 43 Resp: 4385

Ion Ratio Lower Upper

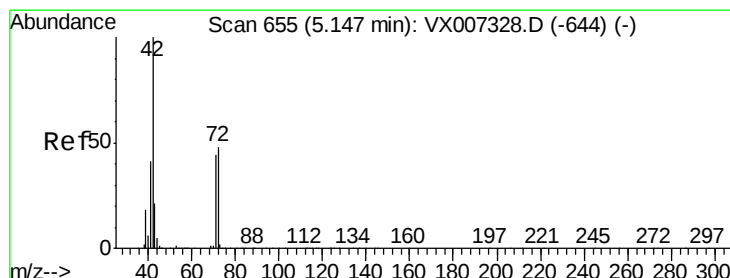
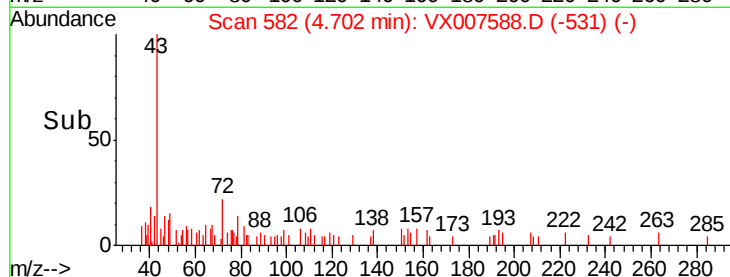
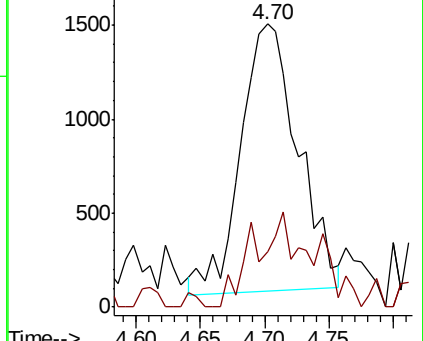
43 100

72 18.3 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.073 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

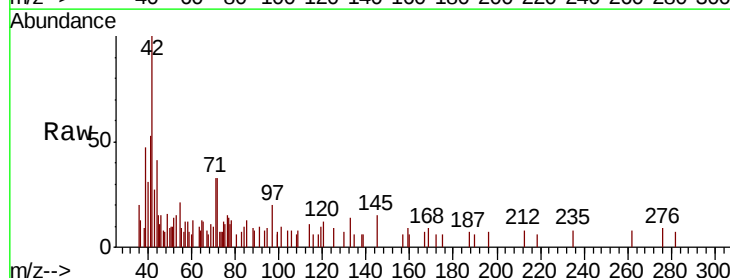
Tgt Ion: 42 Resp: 2208

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

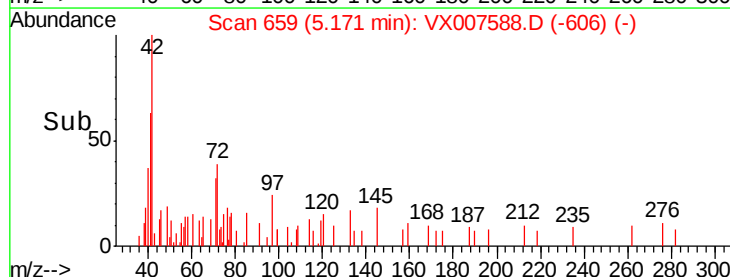
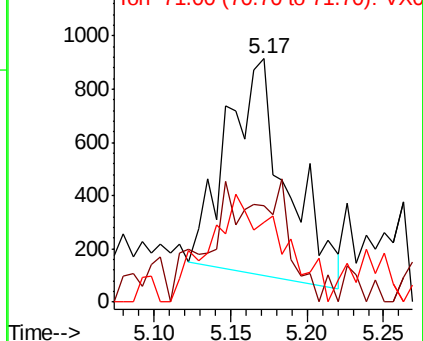
71 0.0 34.6 51.8#

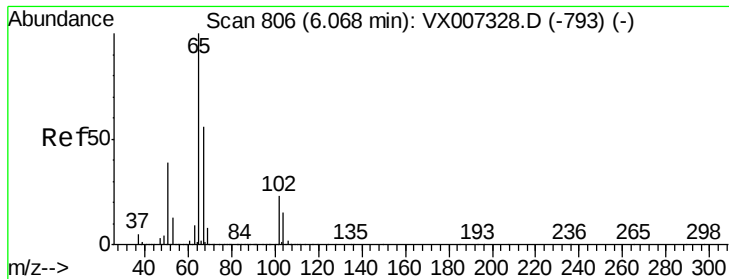


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

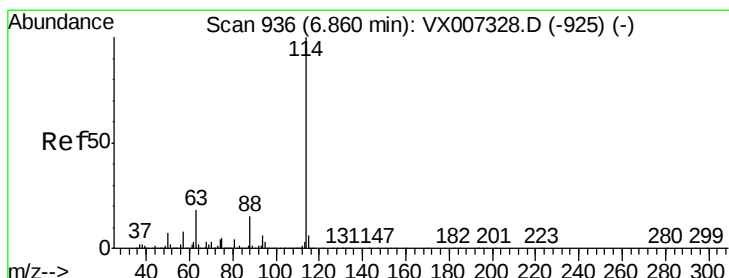
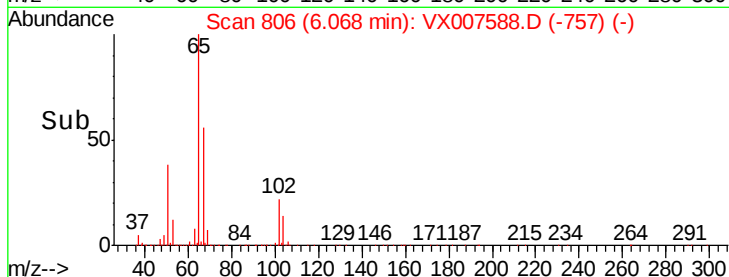
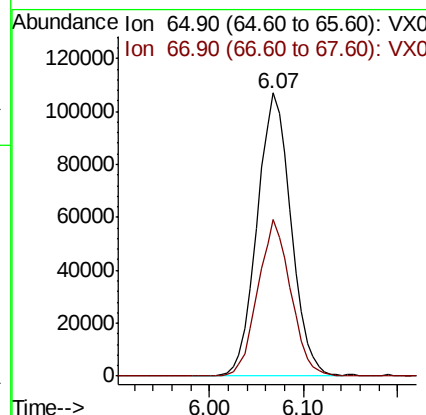
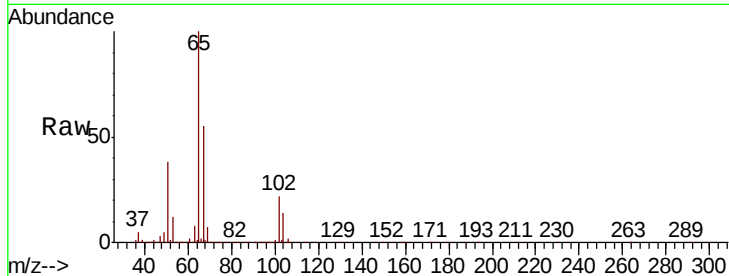




#33
 1,2-Dichloroethane-d4
 Concen: 53.855 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007588.D
 Acq: 18 Feb 2019 15:05

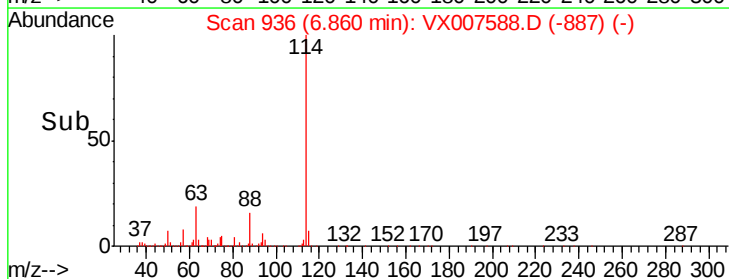
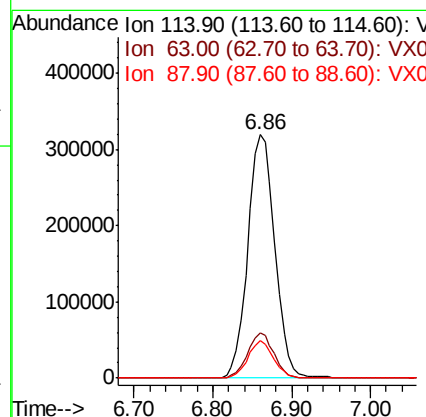
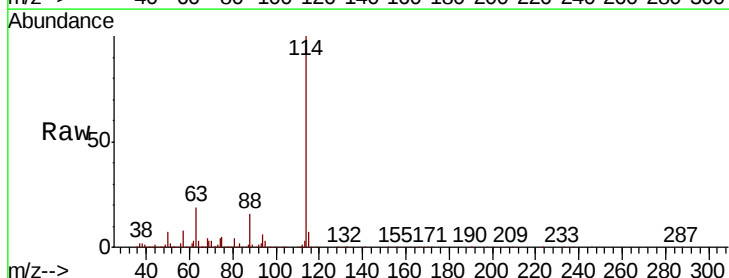
Instrument :
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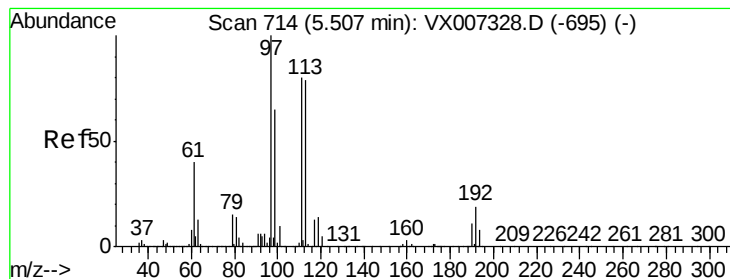
Tgt Ion: 65 Resp: 270299
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007588.D
 Acq: 18 Feb 2019 15:05

Tgt Ion: 114 Resp: 761135
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.6
 88 15.6 0.0 29.6





#35

Dibromofluoromethane

Concen: 50.851 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#19

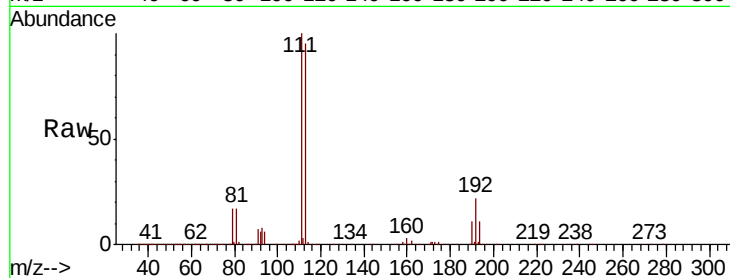
Tgt Ion:113 Resp: 251835

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

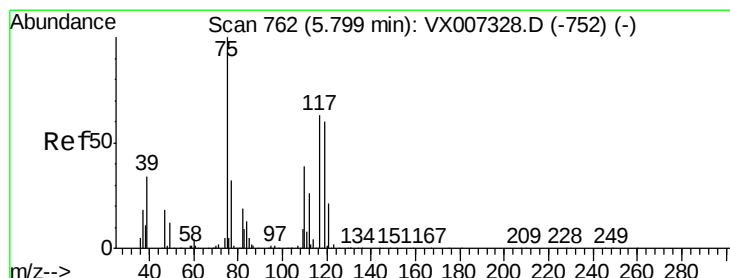
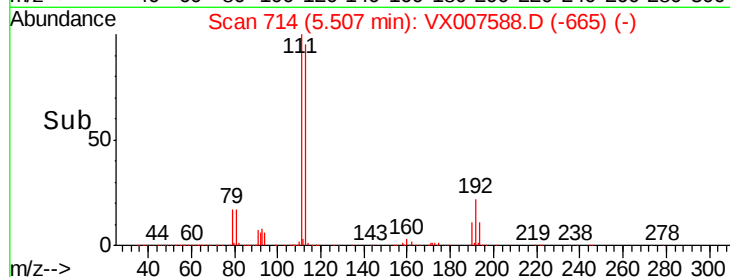
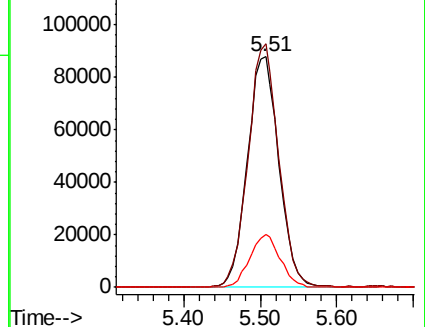
192 22.3 18.5 27.7



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: 4.443 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

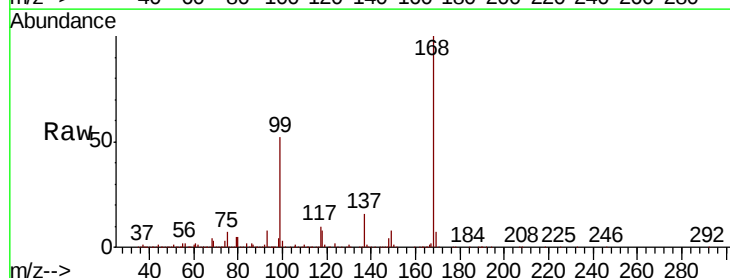
Tgt Ion: 75 Resp: 30342

Ion Ratio Lower Upper

75 100

110 10.5 20.0 59.9#

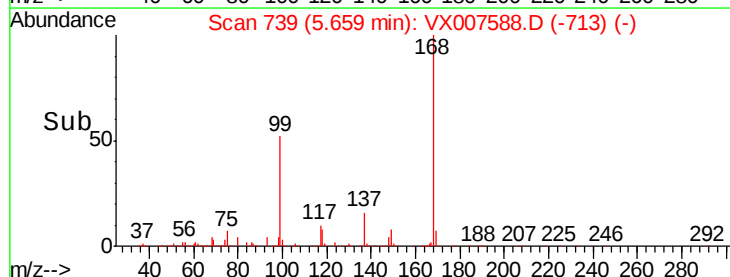
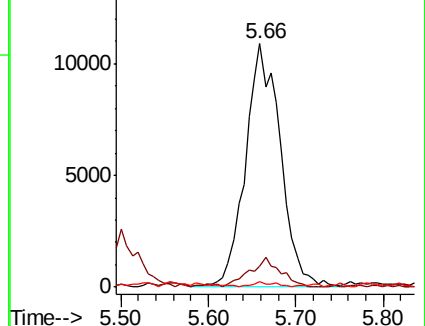
77 1.4 24.7 37.1#

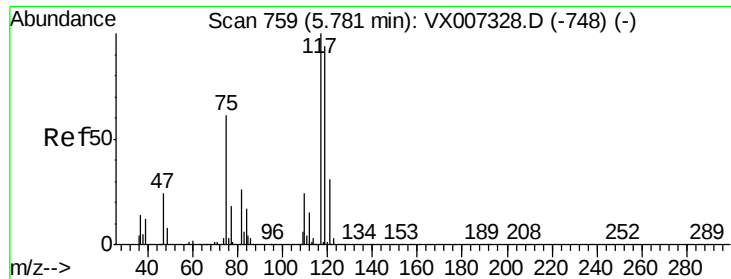


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

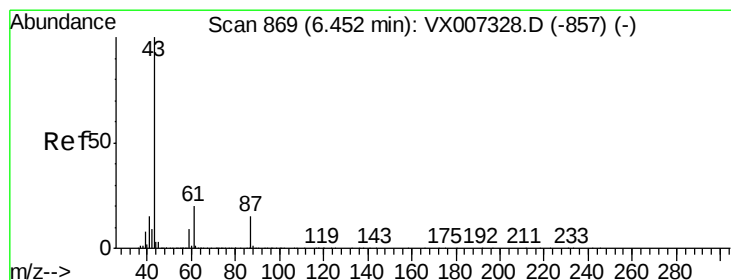
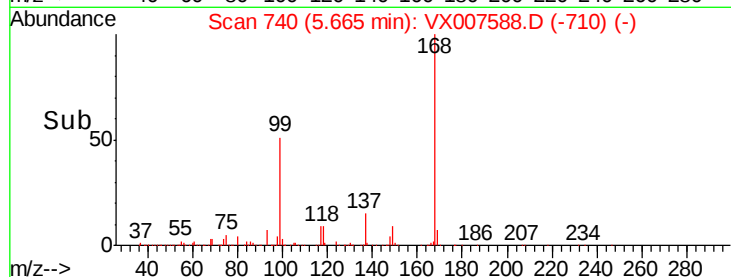
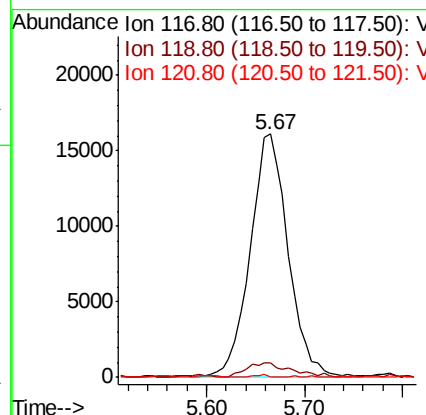
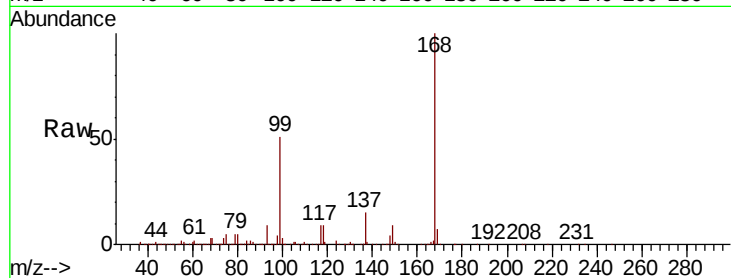




#38
Carbon Tetrachloride
Concen: 6.464 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

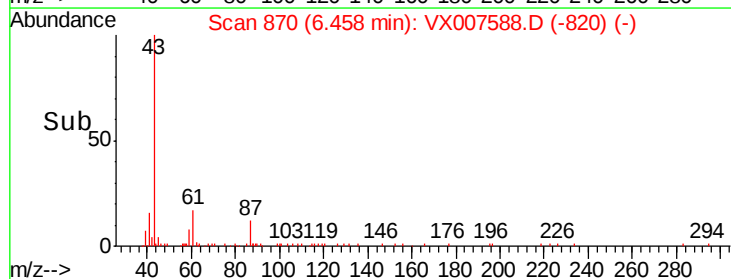
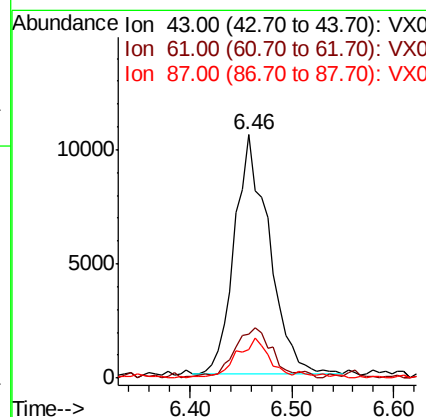
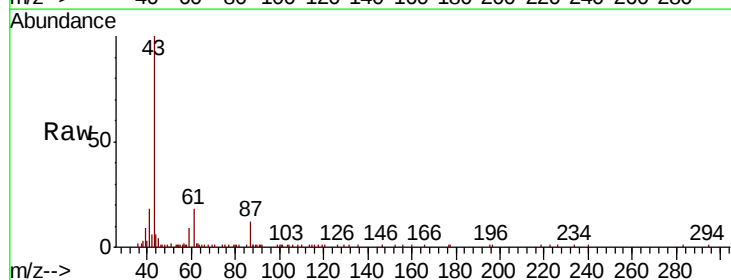
Instrument :
MSVOA_X
ClientSampleId :
PB117159ZHE#19

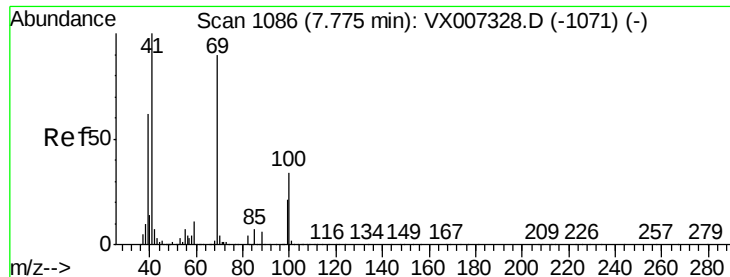
Tgt Ion:117 Resp: 42826
Ion Ratio Lower Upper
117 100
119 6.1 75.3 112.9#
121 0.0 25.0 37.4#



#43
Isopropyl Acetate
Concen: 2.323 ug/l
RT: 6.46 min Scan# 870
Delta R.T. 0.01 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

Tgt Ion: 43 Resp: 24750
Ion Ratio Lower Upper
43 100
61 23.6 16.1 24.1
87 15.7 11.5 17.3





#48

Methyl methacrylate

Concen: 2.263 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#19

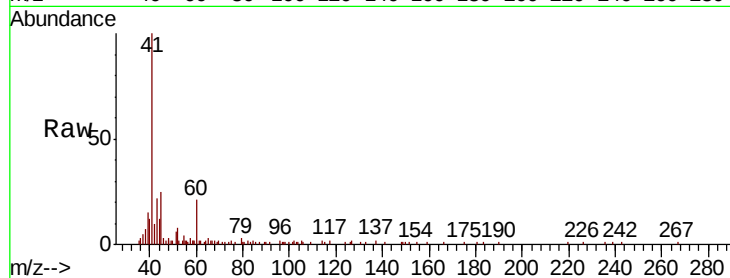
Tgt Ion: 41 Resp: 12060

Ion Ratio Lower Upper

41 100

69 1.3 70.2 105.4#

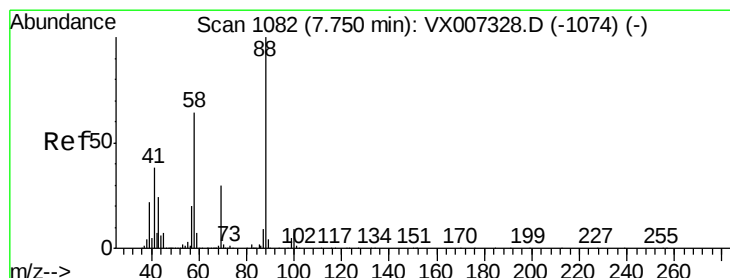
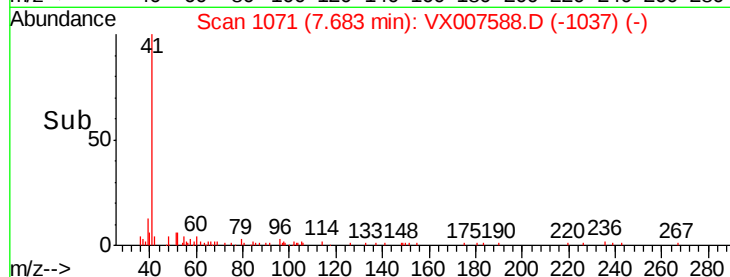
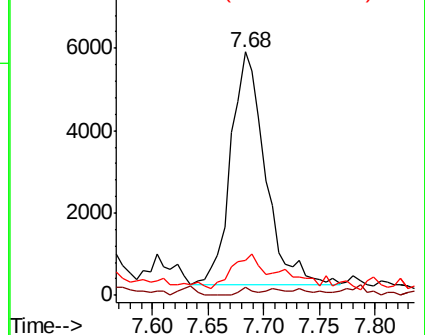
39 0.0 47.4 71.0#



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: 8.681 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

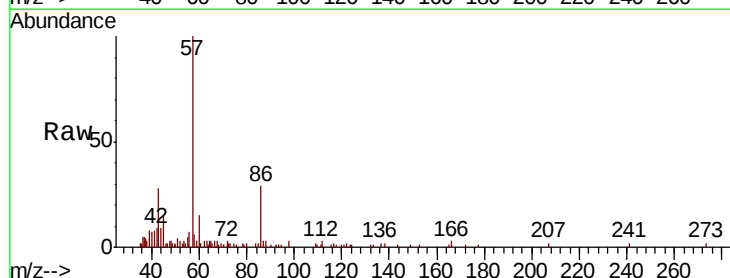
Tgt Ion: 88 Resp: 220

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

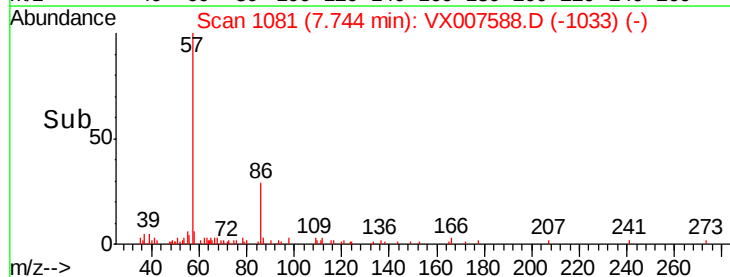
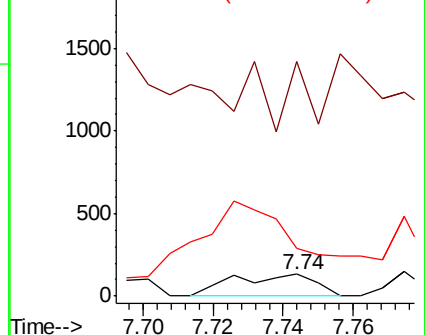
58 546.4 53.0 79.4#

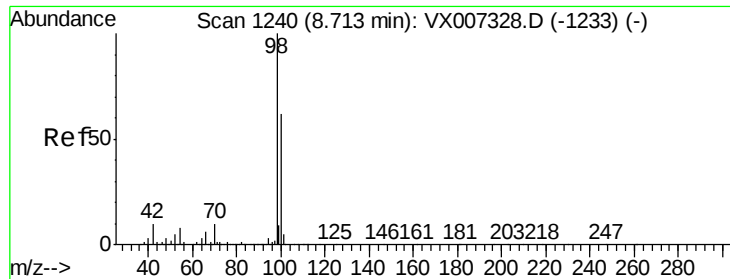


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.594 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

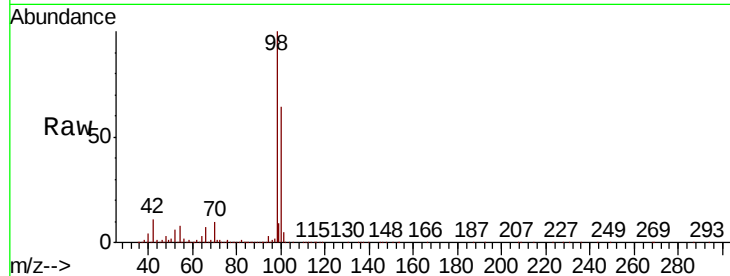
PB117159ZHE#19

Tgt Ion: 98 Resp: 929625

Ion Ratio Lower Upper

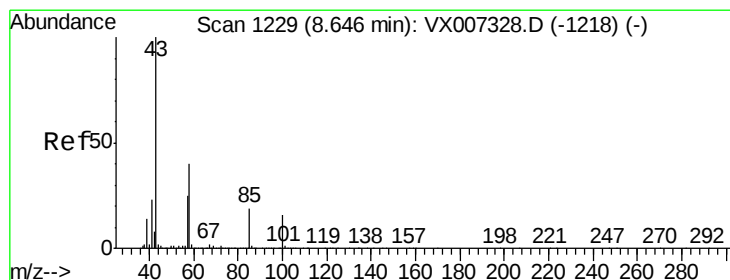
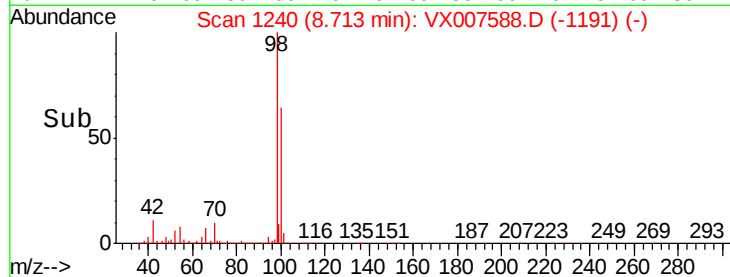
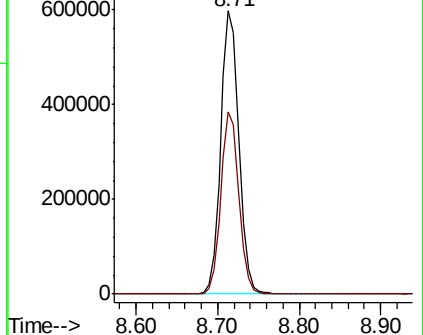
98 100

100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 18.679 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007588.D

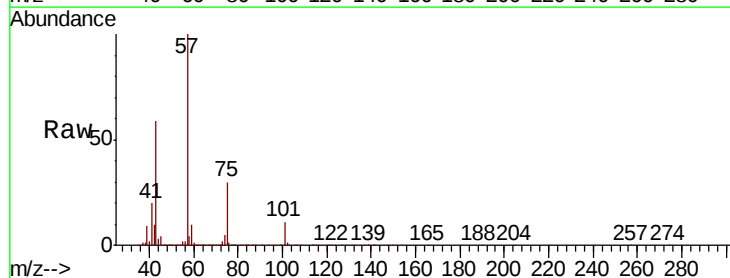
Acq: 18 Feb 2019 15:05

Tgt Ion: 43 Resp: 131026

Ion Ratio Lower Upper

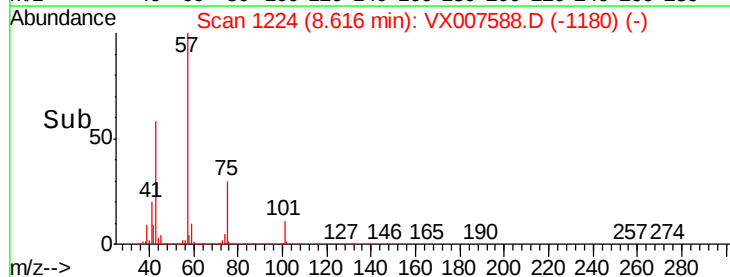
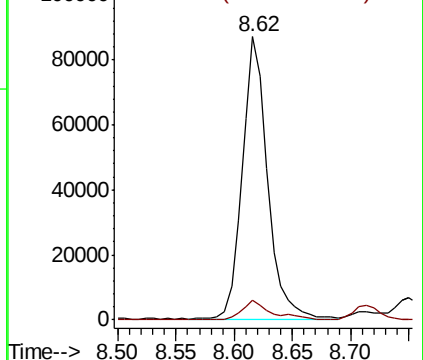
43 100

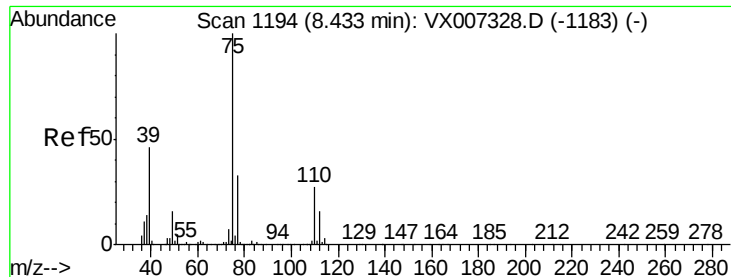
58 8.4 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 8.725 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#19

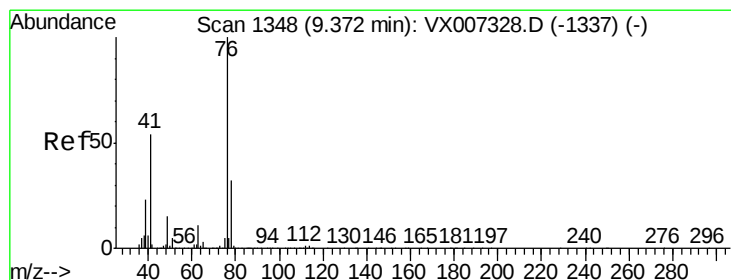
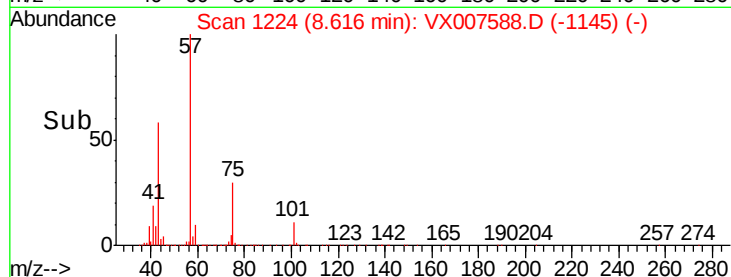
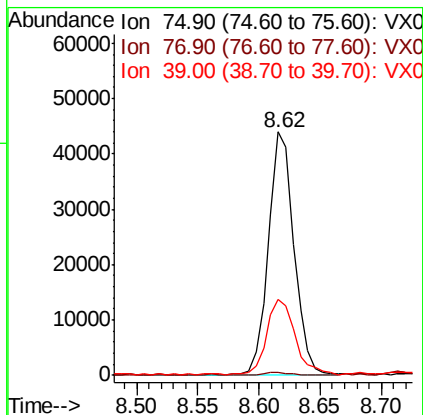
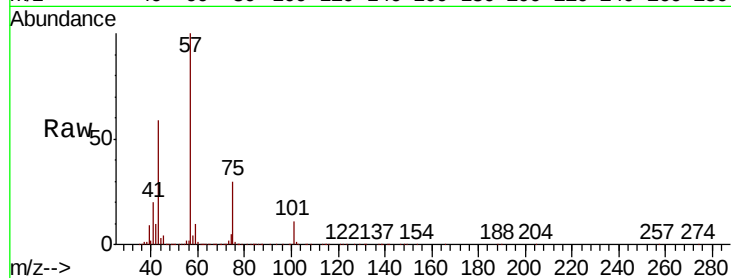
Tgt Ion: 75 Resp: 63984

Ion Ratio Lower Upper

75 100

77 1.3 26.2 39.4#

39 30.7 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 1.856 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007588.D

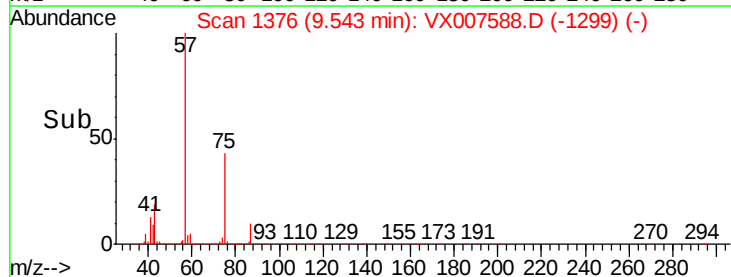
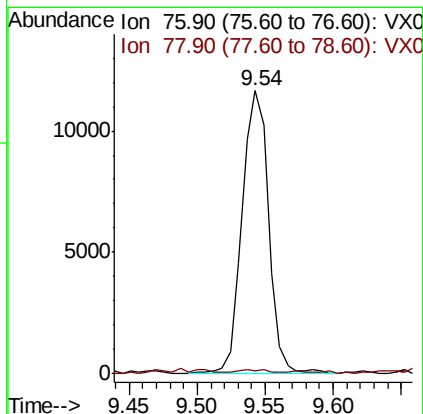
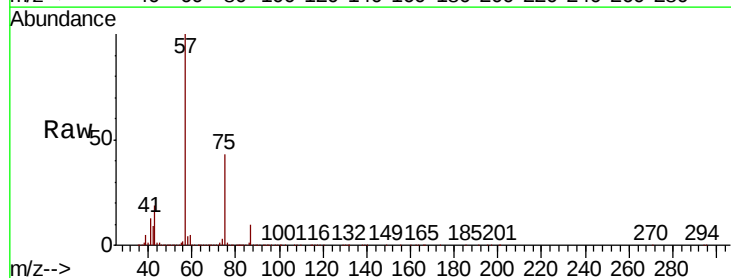
Acq: 18 Feb 2019 15:05

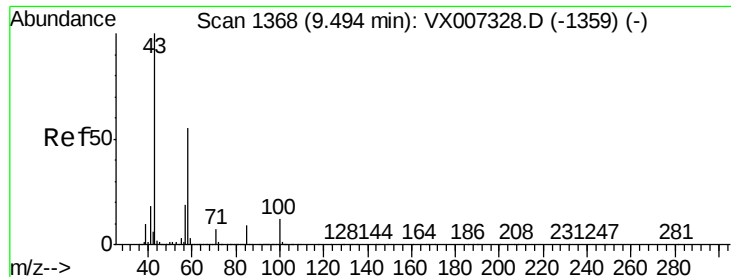
Tgt Ion: 76 Resp: 15969

Ion Ratio Lower Upper

76 100

78 1.2 25.8 38.8#

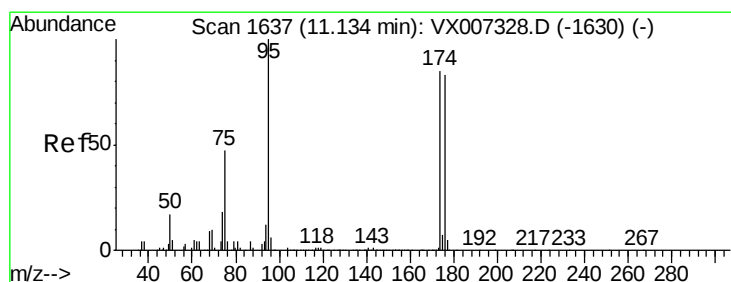
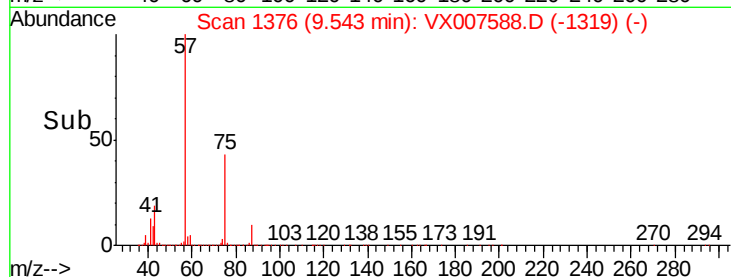
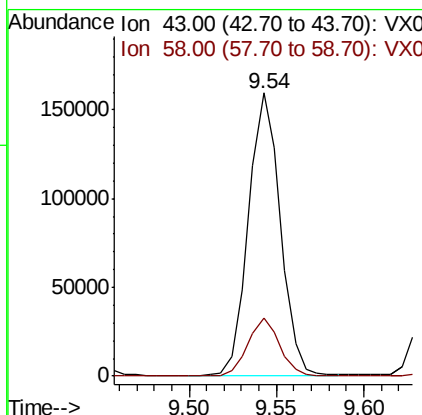
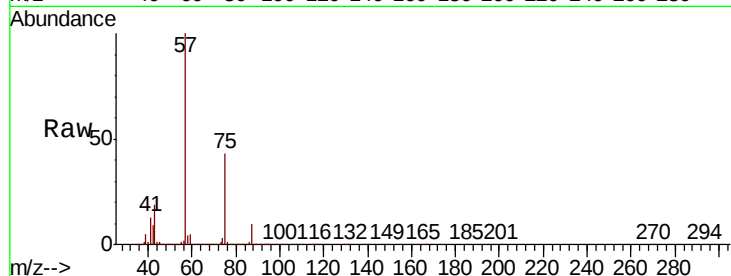




#59
2-Hexanone
Concen: 36.953 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

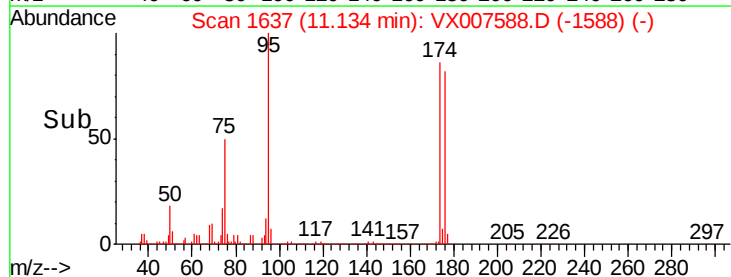
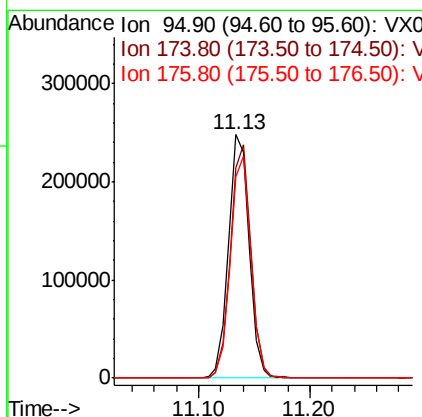
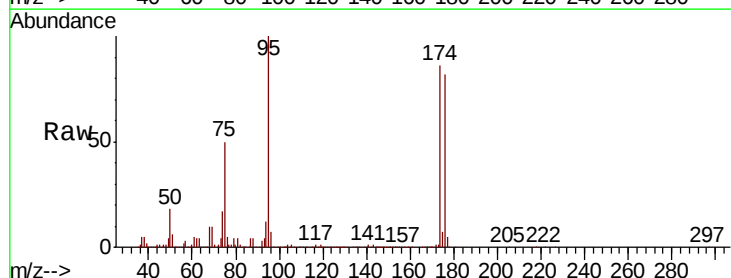
Instrument :
MSVOA_X
ClientSampleId :
PB117159ZHE#19

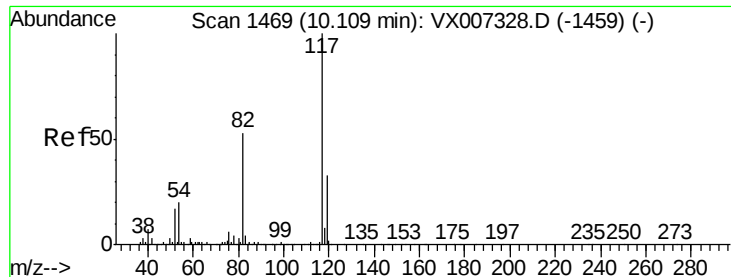
Tgt Ion: 43 Resp: 201711
Ion Ratio Lower Upper
43 100
58 20.4 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 47.547 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007588.D
Acq: 18 Feb 2019 15:05

Tgt Ion: 95 Resp: 318968
Ion Ratio Lower Upper
95 100
174 94.5 0.0 189.2
176 90.5 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#19

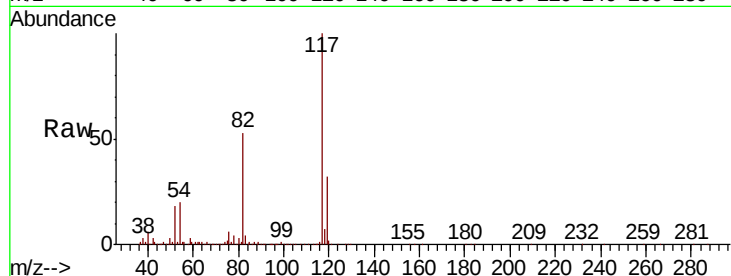
Tgt Ion:117 Resp: 728897

Ion Ratio Lower Upper

117 100

82 53.5 42.1 63.1

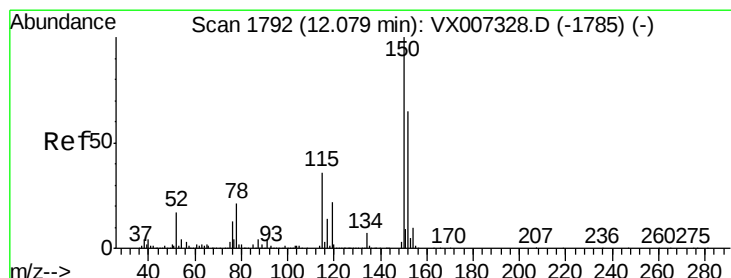
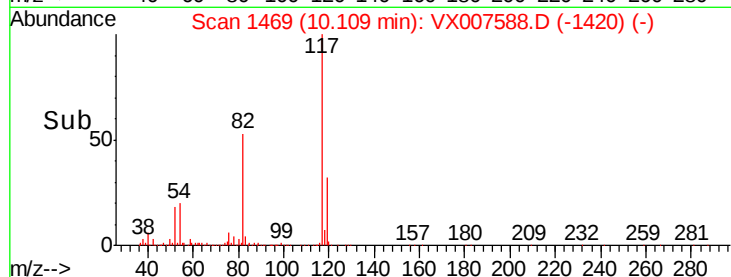
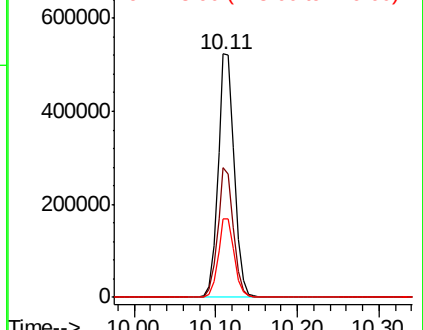
119 32.3 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

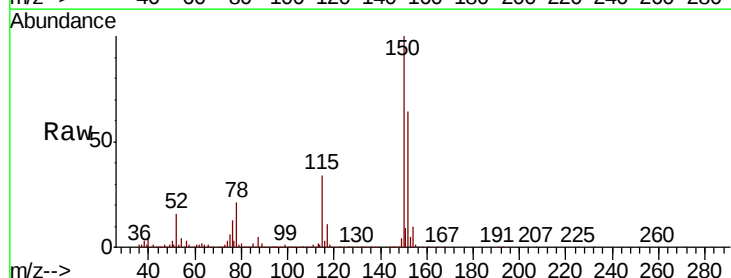
Tgt Ion:152 Resp: 340040

Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

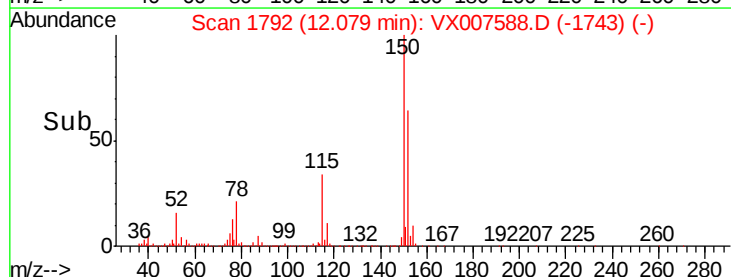
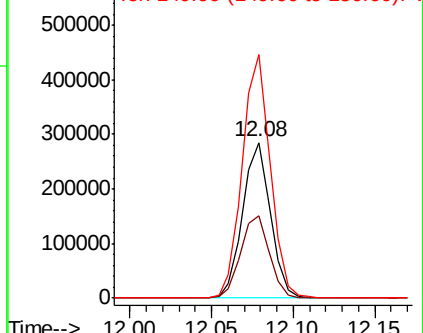
150 157.5 0.0 346.4

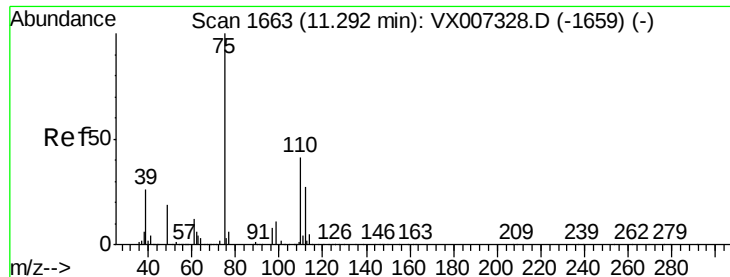


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.635 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

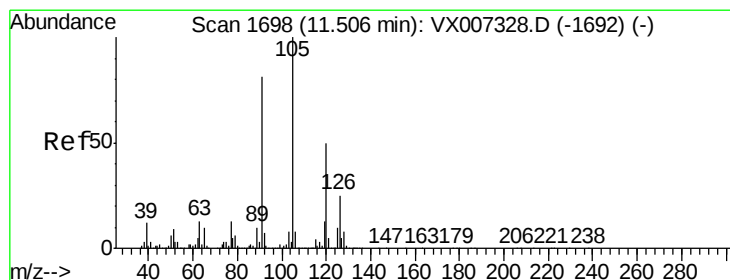
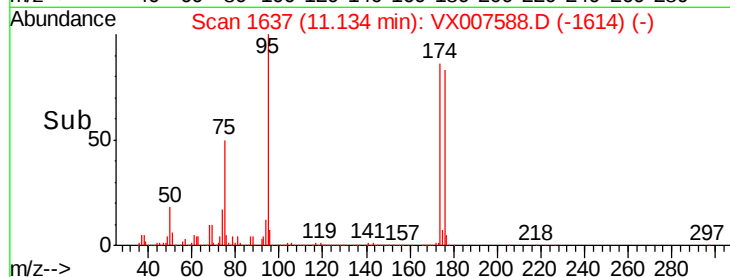
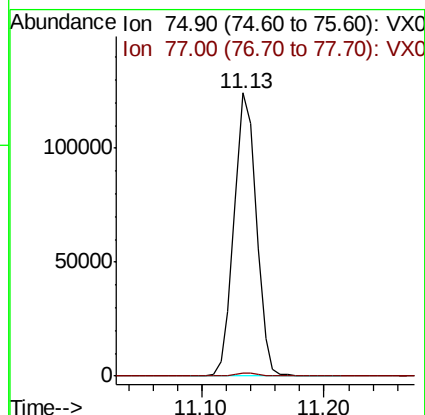
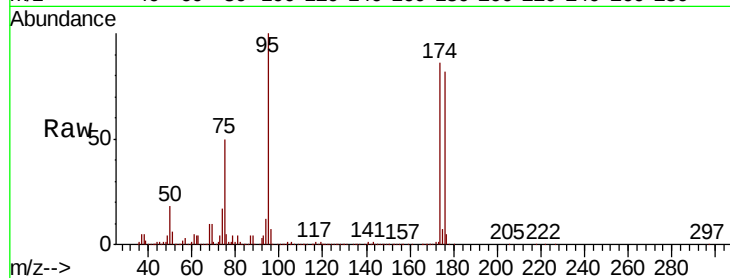
PB117159ZHE#19

Tgt Ion: 75 Resp: 156328

Ion Ratio Lower Upper

75 100

77 1.4 23.0 69.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.546 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007588.D

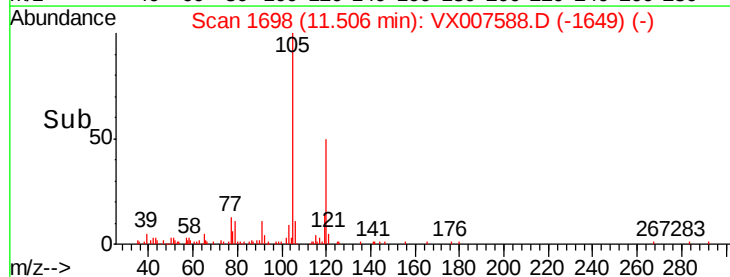
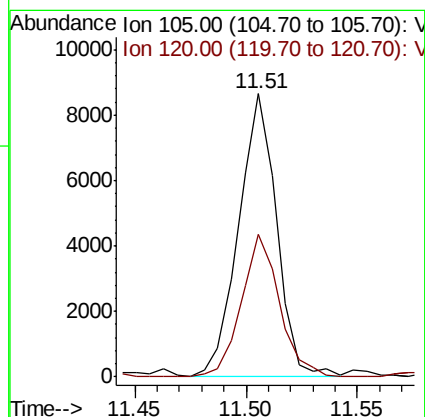
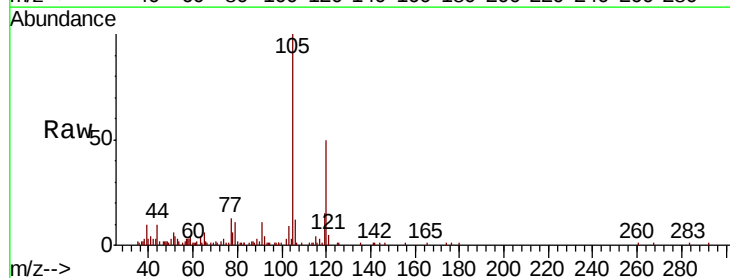
Acq: 18 Feb 2019 15:05

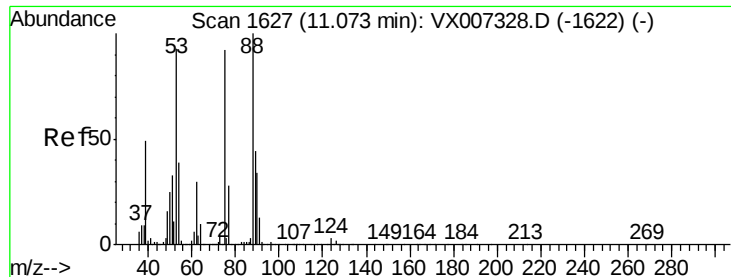
Tgt Ion: 105 Resp: 10316

Ion Ratio Lower Upper

105 100

120 50.5 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 71.105 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007588.D

Acq: 18 Feb 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

PB117159ZHE#19

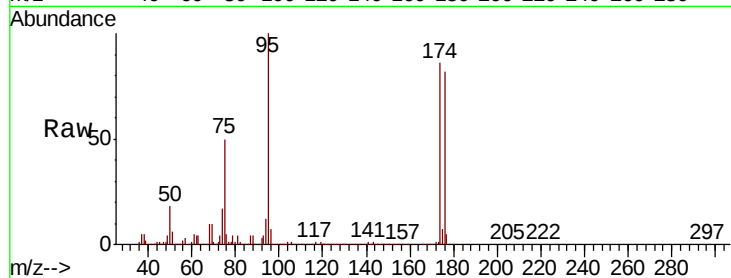
Tgt Ion: 75 Resp: 156328

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

