

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020419\
 Data File : VX007357.D
 Acq On : 04 Feb 2019 14:16
 Operator : JC/SP
 Sample : PB116780ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116780ZHE#02

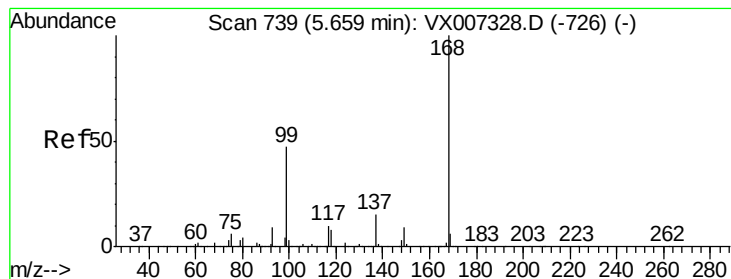
Quant Time: Feb 04 23:58:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	507198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	779838	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	774388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	376874	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	276158	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
35) Dibromofluoromethane	5.51	113	250438	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.71	98	982371	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.13	95	346706	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	751	Below Cal		86
11) Tert butyl alcohol	3.10	59	591	0.530	ug/l #	73
13) Acrolein	2.31	56	242	0.463	ug/l #	1
16) Acetone	2.45	43	35202	14.275	ug/l	98
17) Carbon Disulfide	2.58	76	1064	2.202	ug/l #	84
18) Methyl Acetate	2.78	43	27104	4.761	ug/l	99
20) Methylene Chloride	2.86	84	34252	6.457	ug/l	98
25) 2-Butanone	4.71	43	7883	2.246	ug/l #	80
29) Tetrahydrofuran	5.17	42	3337	1.512	ug/l #	53
36) 1,1-Dichloropropene	5.66	75	32590	4.658	ug/l #	45
38) Carbon Tetrachloride	5.67	117	45709	6.734	ug/l #	17
43) Isopropyl Acetate	6.46	43	33851	3.101	ug/l	98
48) Methyl methacrylate	7.68	41	18297	3.351	ug/l #	12
49) 1,4-Dioxane	7.75	88	25	7.079	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	172004	23.933	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	85510	11.380	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	19646	2.229	ug/l #	44
59) 2-Hexanone	9.54	43	258300	46.185	ug/l #	51
74) N-amyl acetate	10.69	43	25862	2.611	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	171608	23.410	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	5625	0.268	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	171608	70.466	ug/l #	9

(#) = 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. 0.01 min

Lab File: VX007357.D

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ClientSampleId :

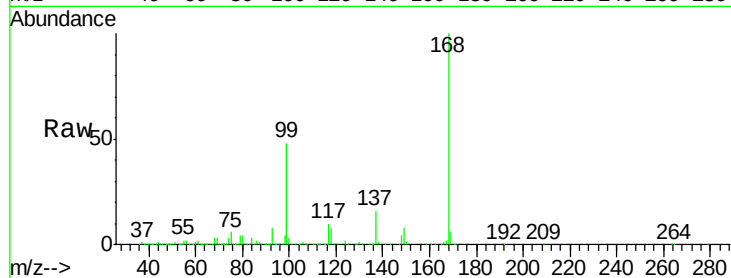
PB116780ZHE#02

Tot Ion:168 Resp: 507198

Ion Ratio Lower Upper

168 100

99 47.6 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

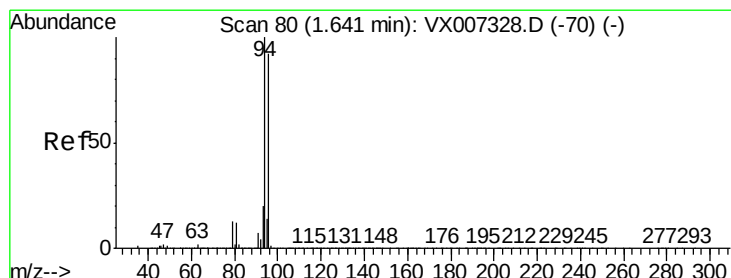
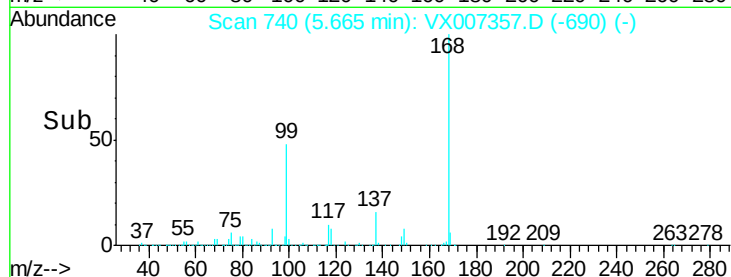
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX007357.D

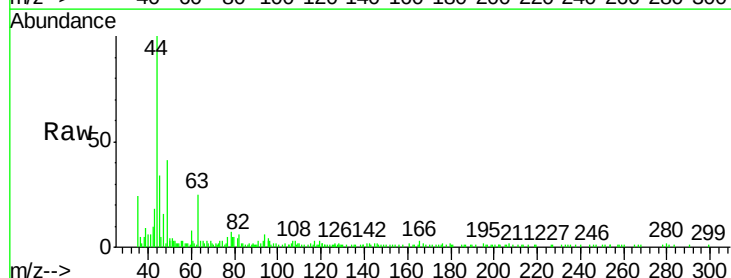
Acq: 04 Feb 2019 14:16

Tgt Ion: 94 Resp: 751

Ion Ratio Lower Upper

94 100

96 105.5 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

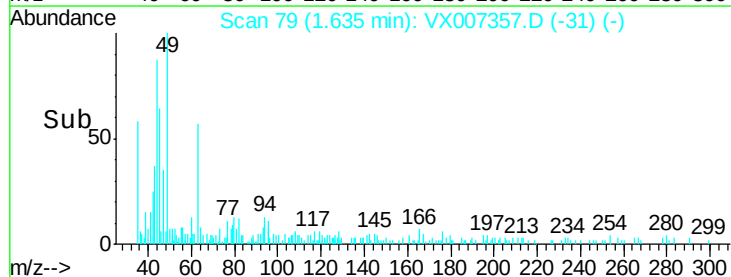
300

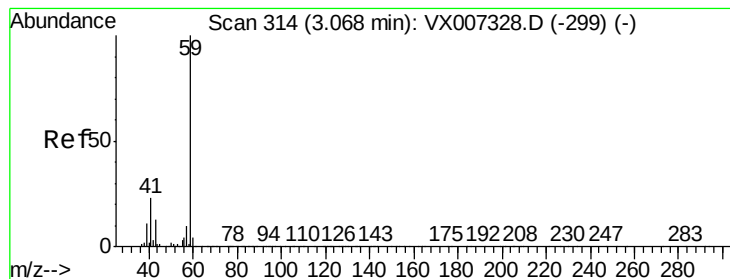
200

100

0

Time--> 1.60 1.65



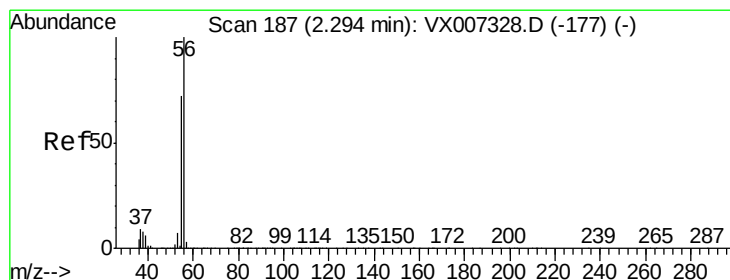
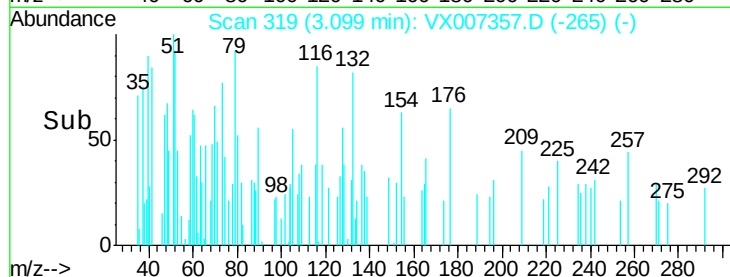
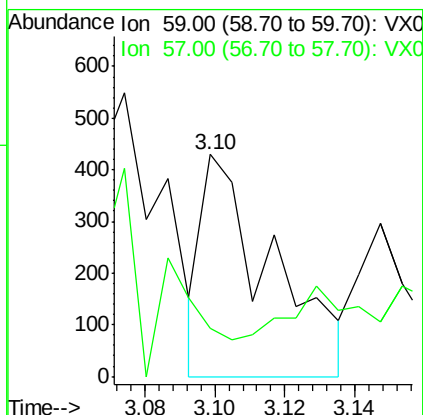
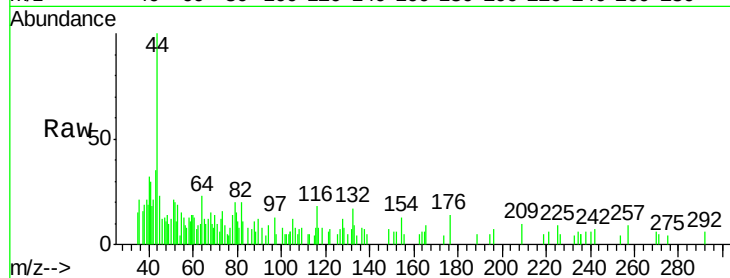


#11

Tert butyl alcohol
Concen: 0.530 ug/l
RT: 3.10 min Scan# 319
Delta R.T. 0.03 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#02

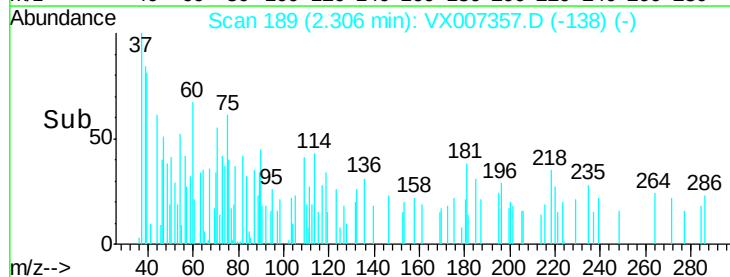
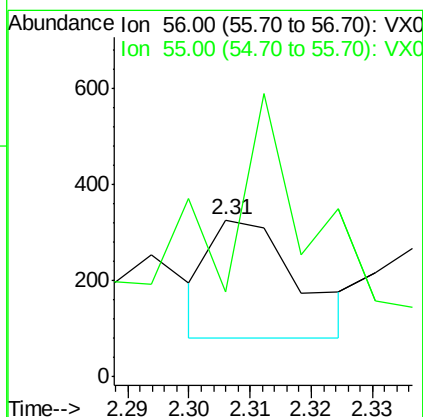
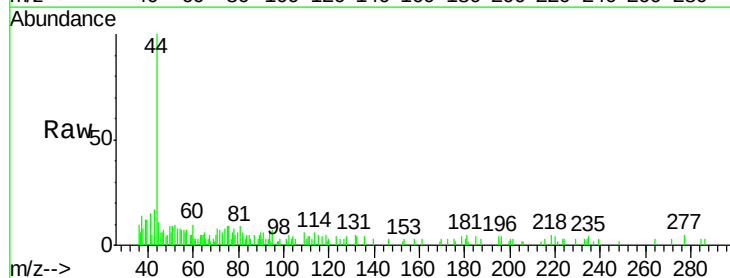
Tot Ion: 59 Resp: 591
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

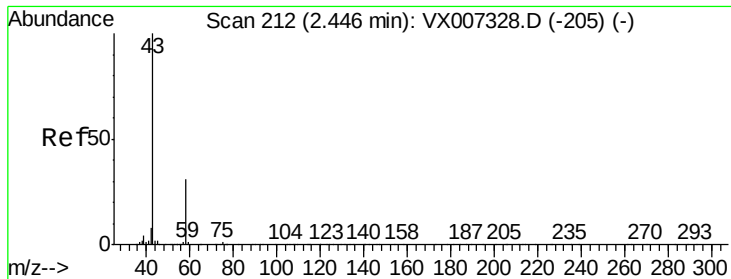


#13

Acrolein
Concen: 0.463 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Tgt Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 252.1 56.9 85.3#

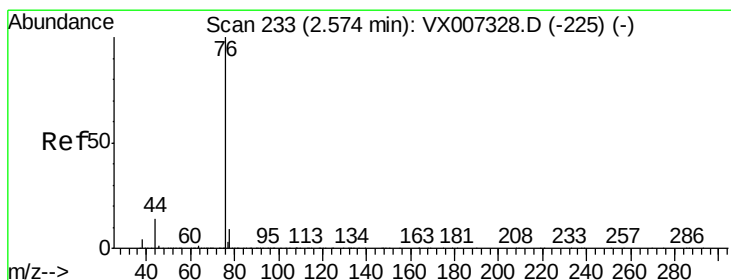
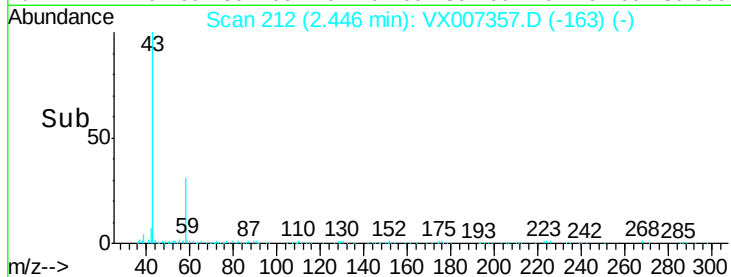
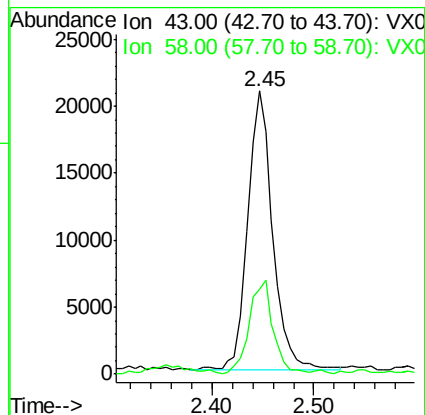
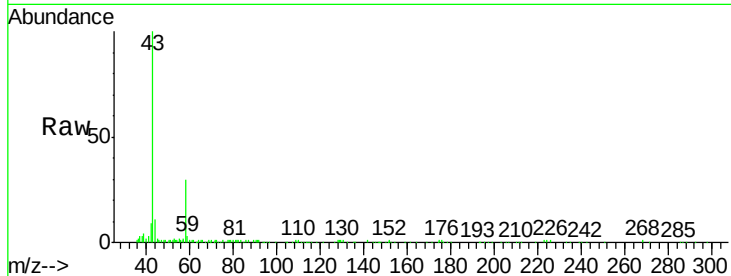




#16
Acetone
Concen: 14.275 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

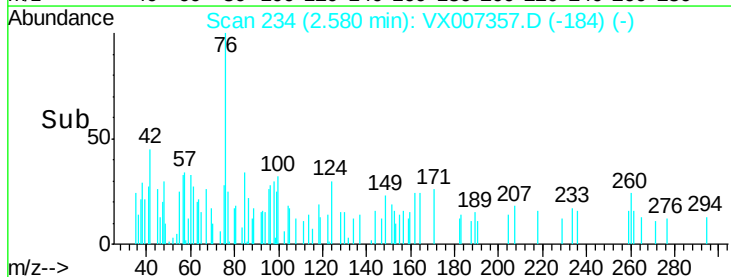
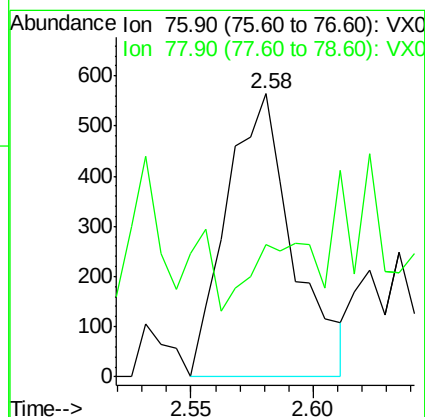
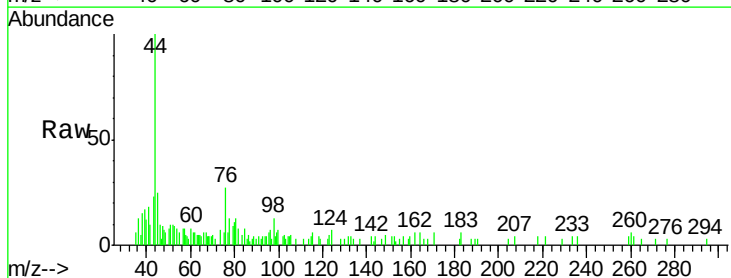
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#02

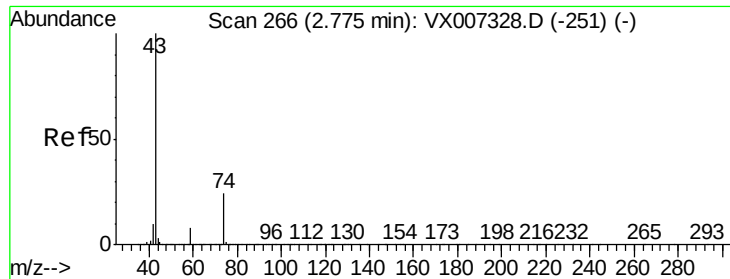
Tot Ion: 43 Resp: 35202
Ion Ratio Lower Upper
43 100
58 29.9 24.9 37.3



#17
Carbon Disulfide
Concen: 2.202 ug/l
RT: 2.58 min Scan# 234
Delta R.T. 0.01 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Tgt Ion: 76 Resp: 1064
Ion Ratio Lower Upper
76 100
78 3.2 7.1 10.7#

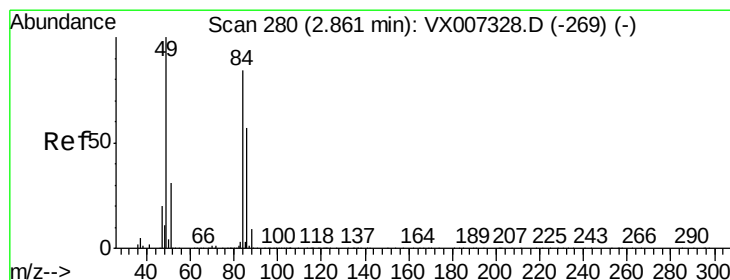
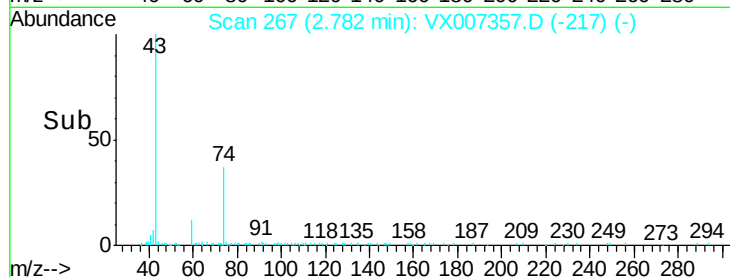
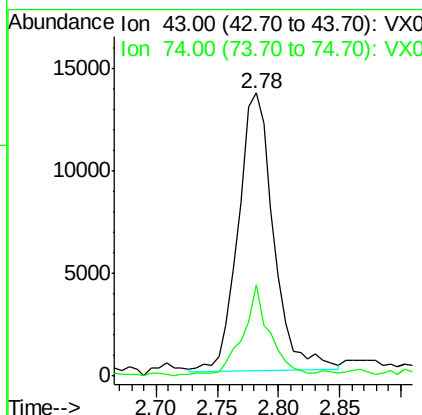
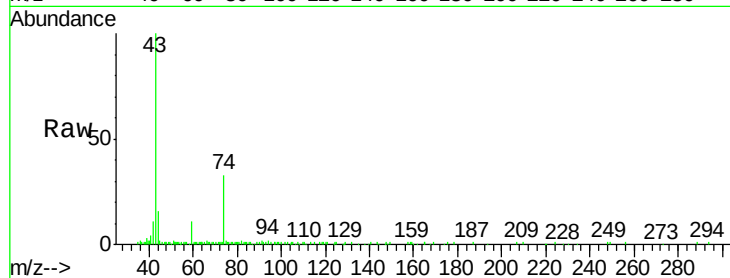




#18
Methyl Acetate
Concen: 4.761 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

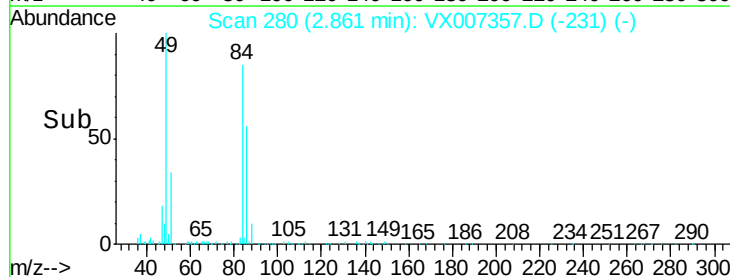
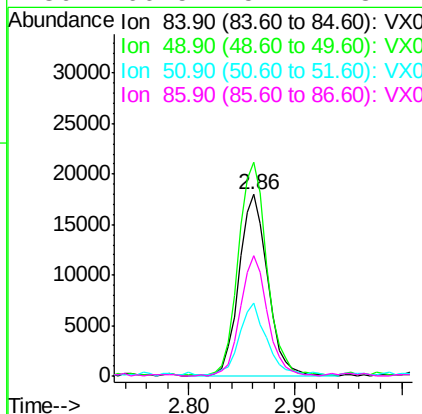
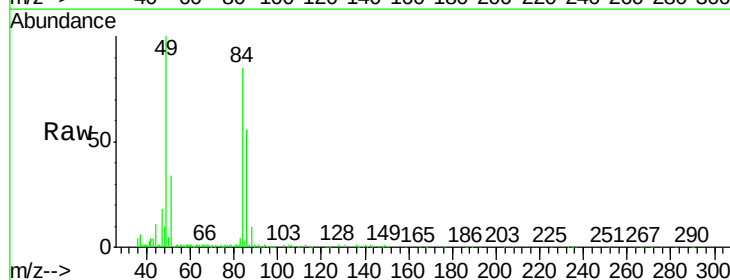
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#02

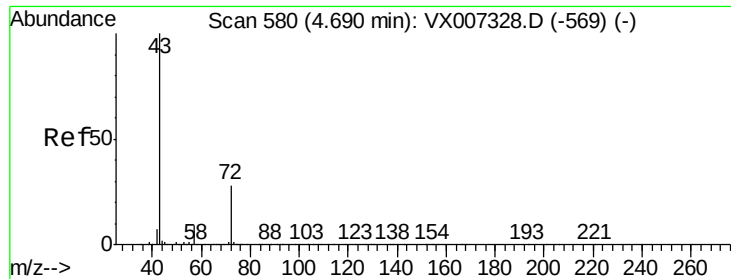
Tot Ion: 43 Resp: 27104
Ion Ratio Lower Upper
43 100
74 24.8 19.4 29.2



#20
Methylene Chloride
Concen: 6.457 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Tgt Ion: 84 Resp: 34252
Ion Ratio Lower Upper
84 100
49 117.0 94.8 142.2
51 39.9 29.8 44.8
86 66.5 54.1 81.1





#25

2-Butanone

Concen: 2.246 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

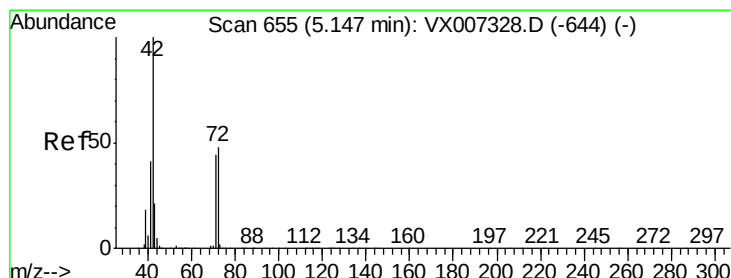
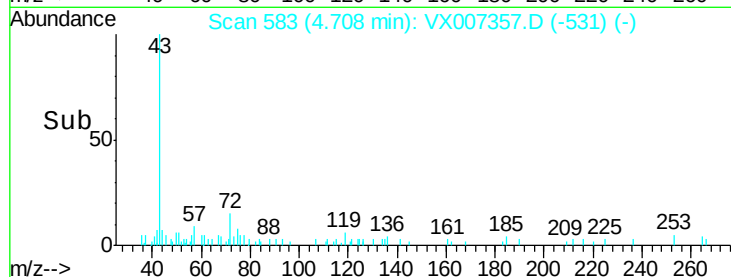
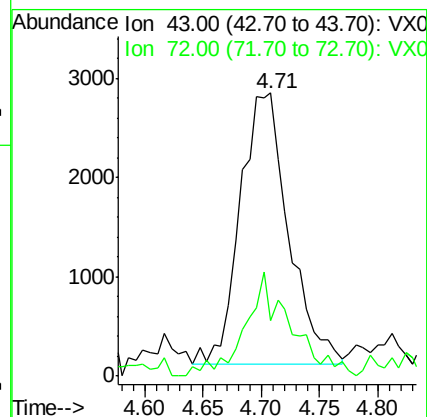
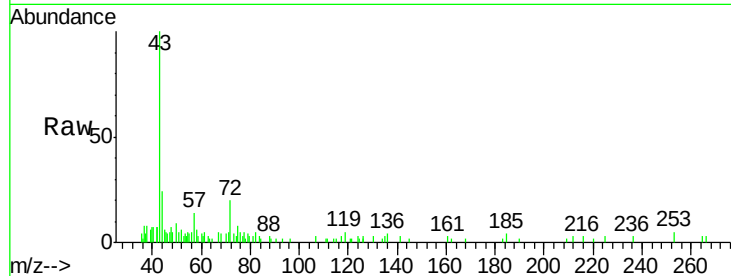
PB116780ZHE#02

Tot Ion: 43 Resp: 7883

Ion Ratio Lower Upper

43 100

72 17.1 22.2 33.2#



#29

Tetrahydrofuran

Concen: 1.512 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

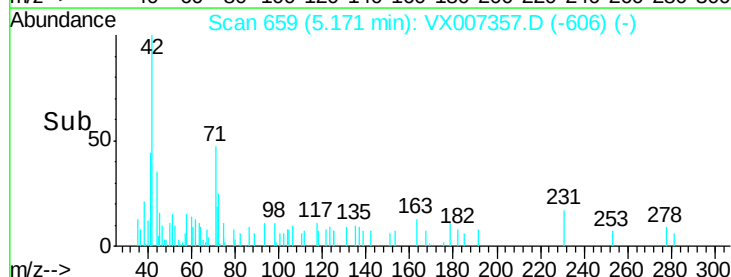
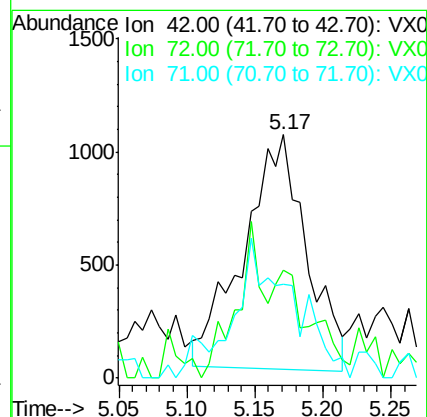
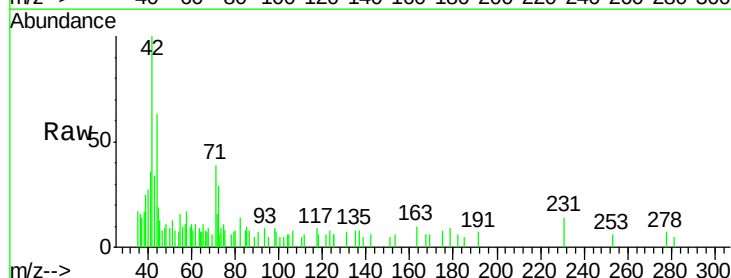
Tgt Ion: 42 Resp: 3337

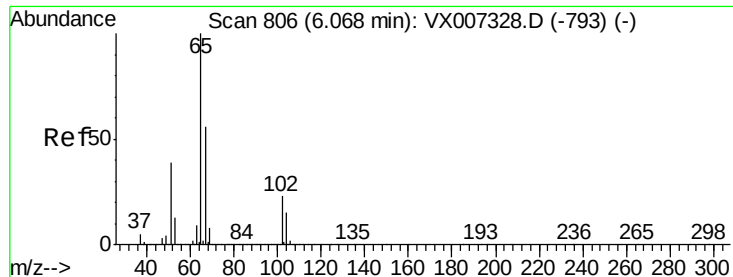
Ion Ratio Lower Upper

42 100

72 28.5 37.6 56.4#

71 0.0 34.6 51.8#

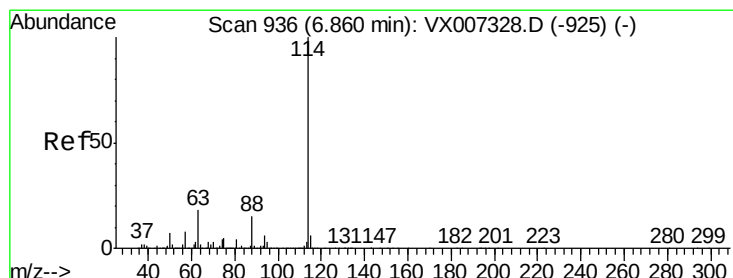
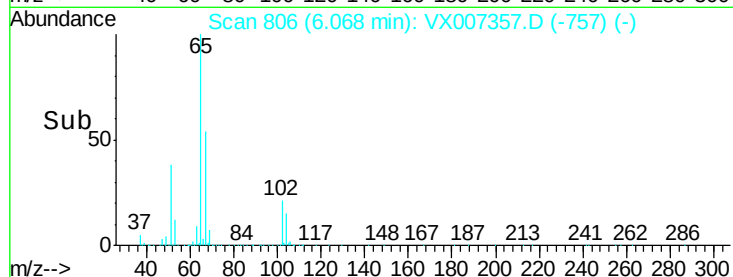
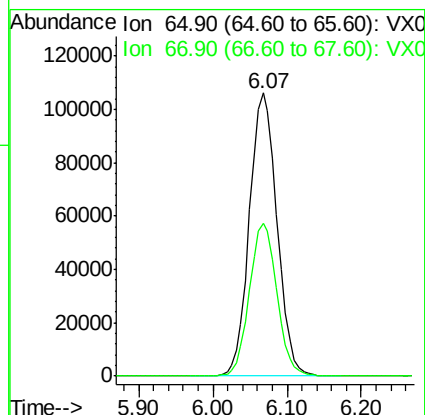
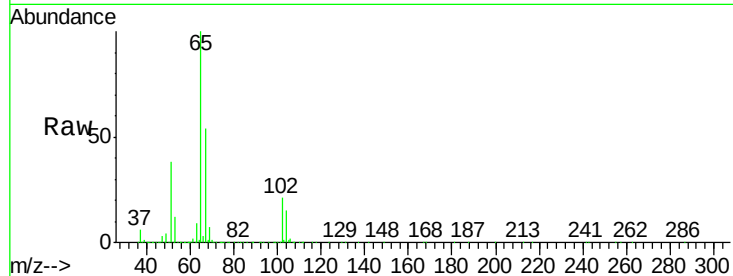




#33
 1,2-Dichloroethane-d4
 Concen: 51.297 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007357.D
 Acq: 04 Feb 2019 14:16

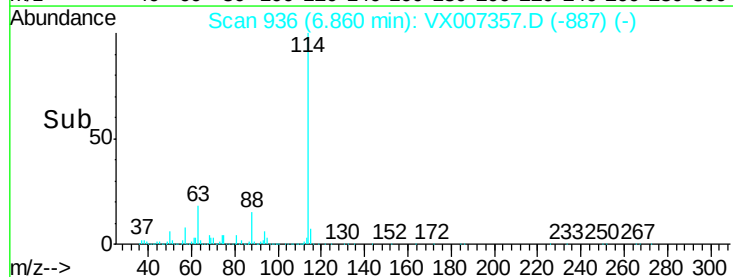
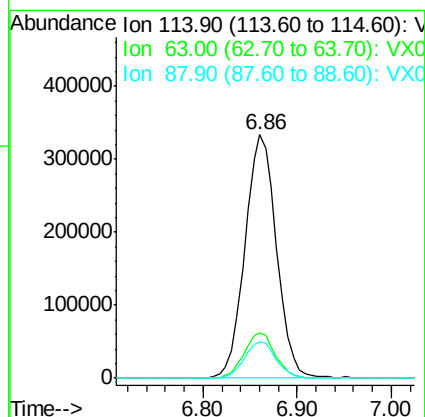
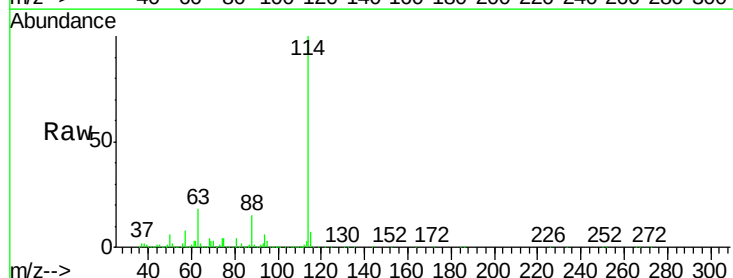
Instrument :
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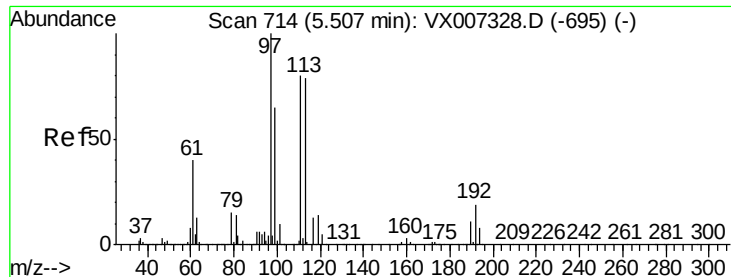
Tot Ion: 65 Resp: 276158
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007357.D
 Acq: 04 Feb 2019 14:16

Tgt Ion: 114 Resp: 779838
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.6
 88 14.9 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.356 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#02

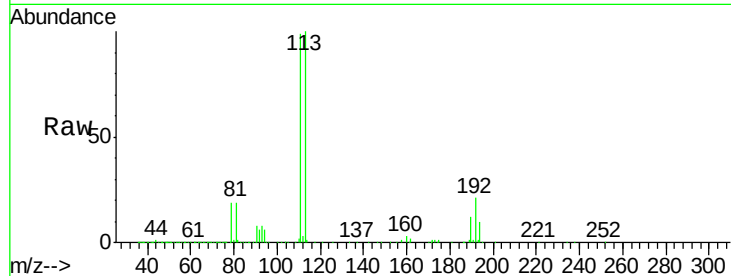
Tot Ion:113 Resp: 250438

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

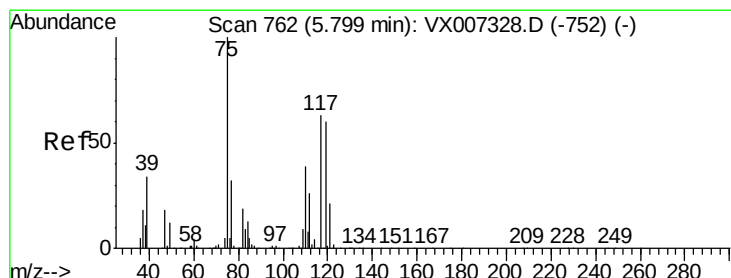
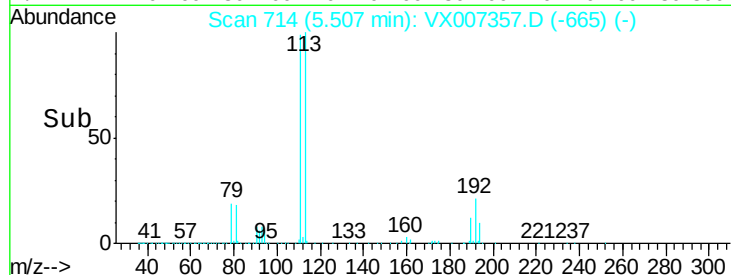
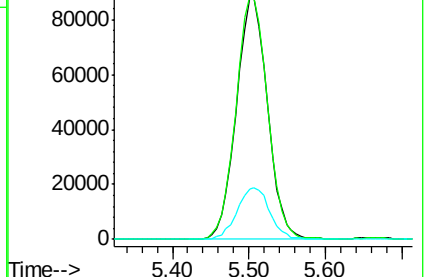
192 22.3 18.5 27.7



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: 4.658 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

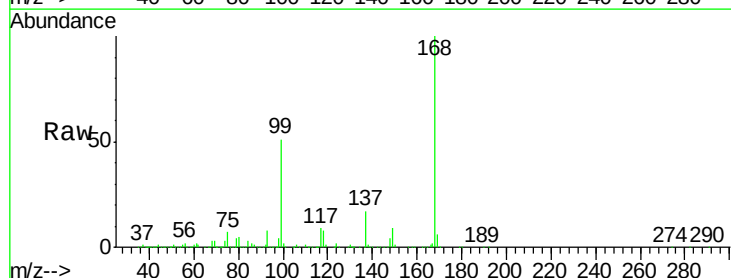
Tgt Ion: 75 Resp: 32590

Ion Ratio Lower Upper

75 100

110 5.8 20.0 59.9#

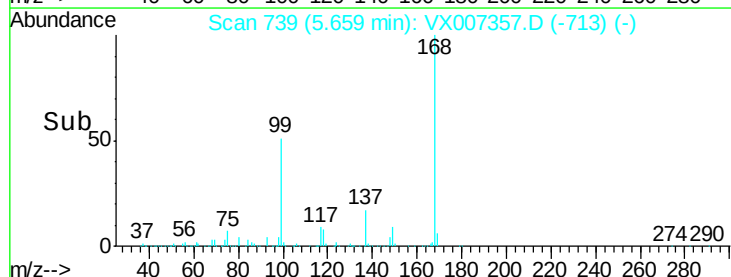
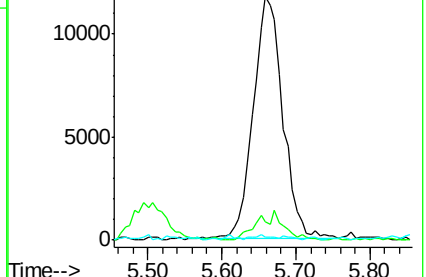
77 1.4 24.7 37.1#

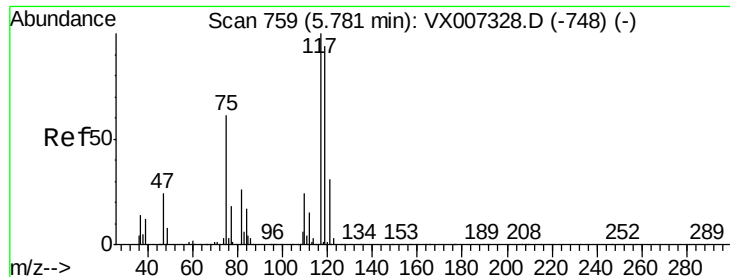


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.734 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#02

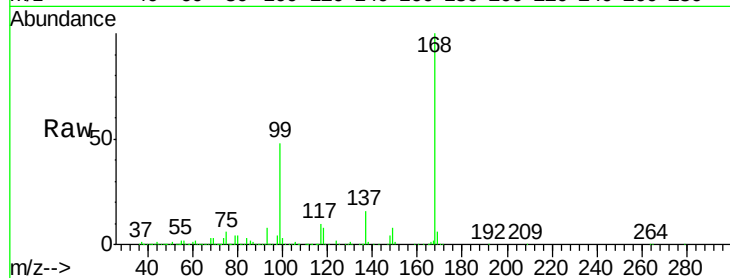
Tot Ion:117 Resp: 45709

Ion Ratio Lower Upper

117 100

119 4.9 75.3 112.9#

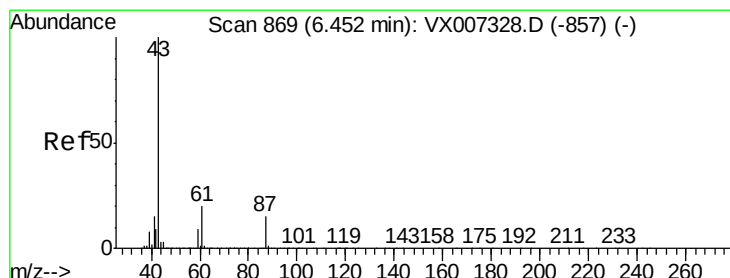
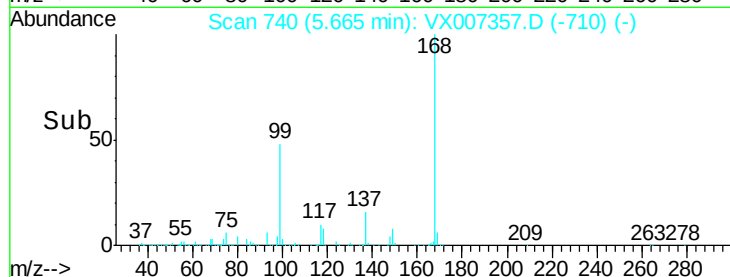
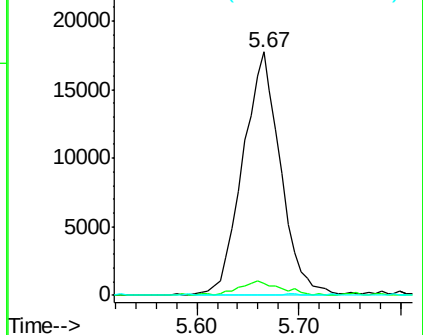
121 0.3 25.0 37.4#



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: 3.101 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

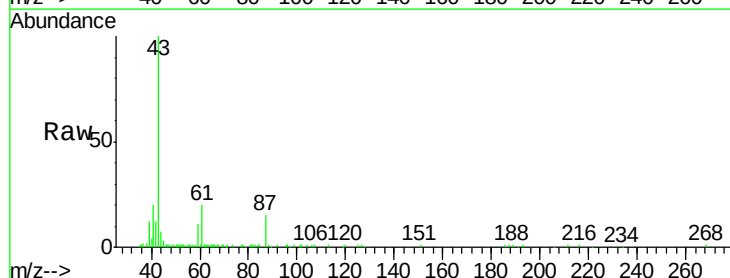
Tgt Ion: 43 Resp: 33851

Ion Ratio Lower Upper

43 100

61 20.9 16.1 24.1

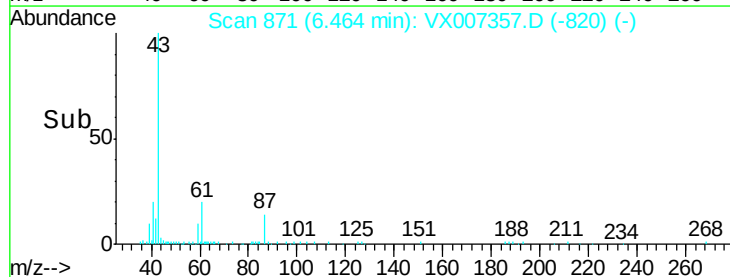
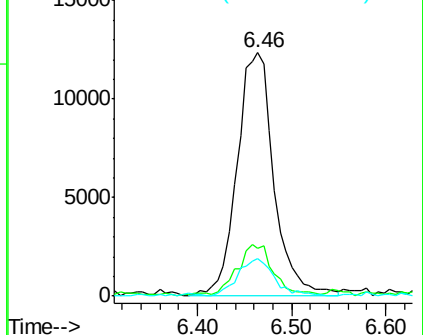
87 15.2 11.5 17.3

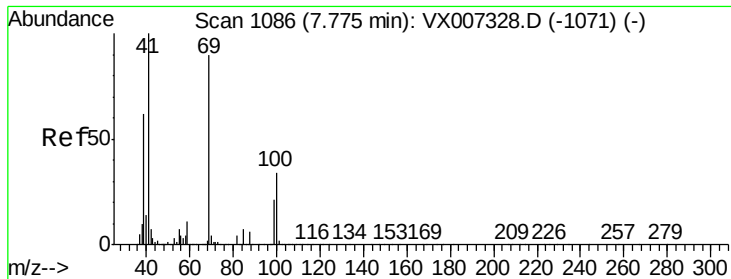


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 3.351 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#02

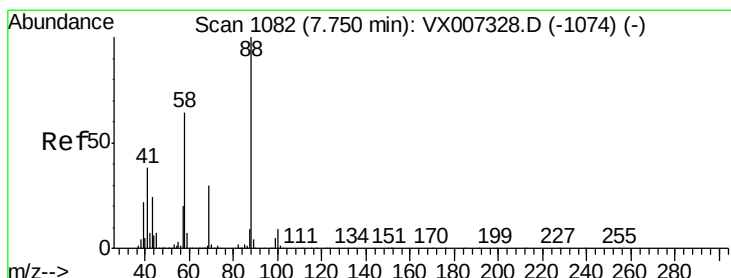
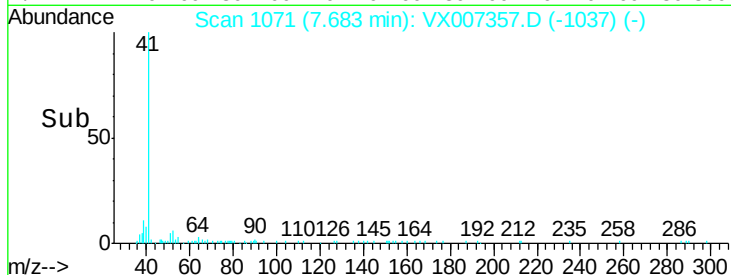
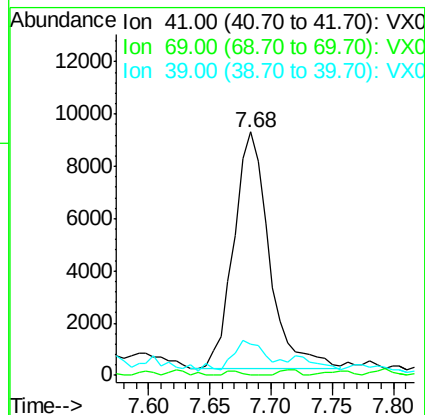
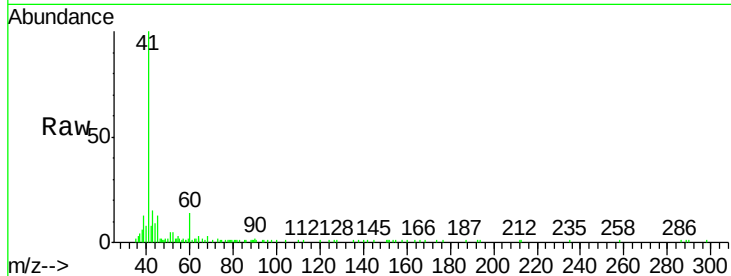
Tot Ion: 41 Resp: 18297

Ion Ratio Lower Upper

41 100

69 0.7 70.2 105.4#

39 0.0 47.4 71.0#



#49

1,4-Dioxane

Concen: 7.079 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

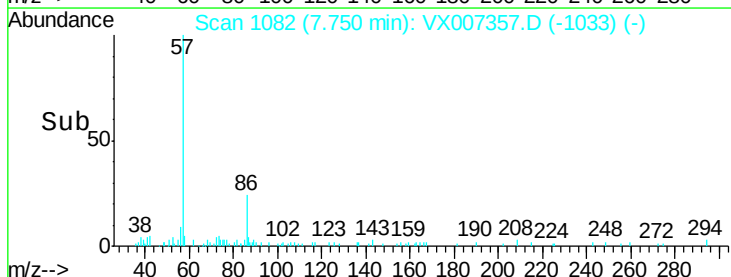
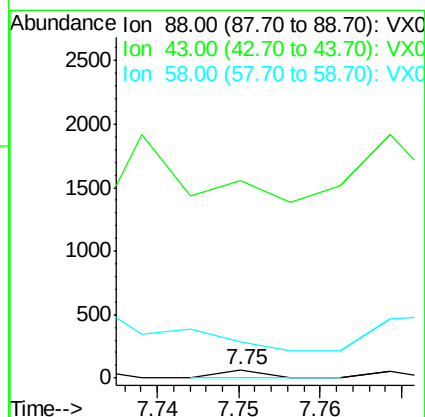
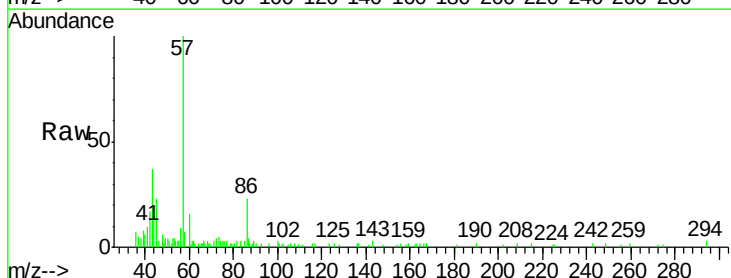
Tgt Ion: 88 Resp: 25

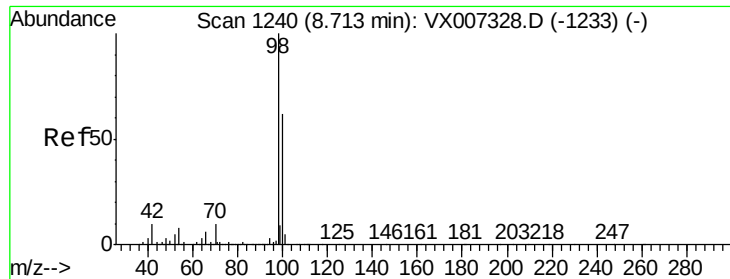
Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 0.0 53.0 79.4#





#50

Toluene-d8

Concen: 52.182 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

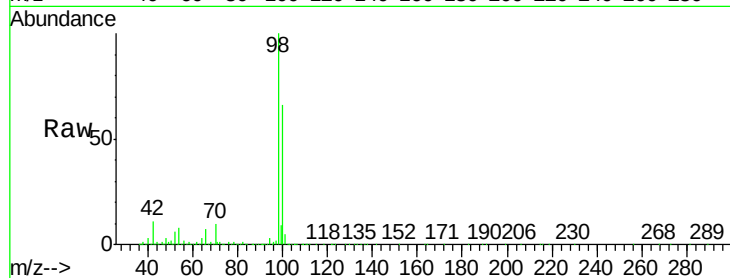
PB116780ZHE#02

Tot Ion: 98 Resp: 982371

Ion Ratio Lower Upper

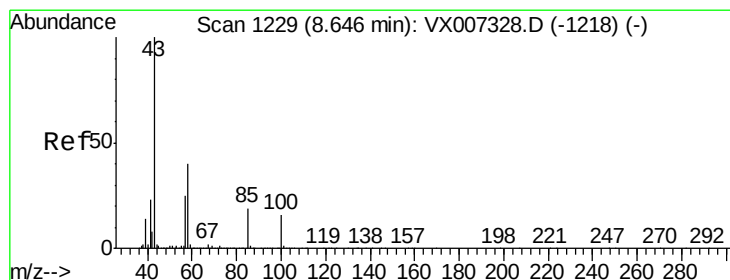
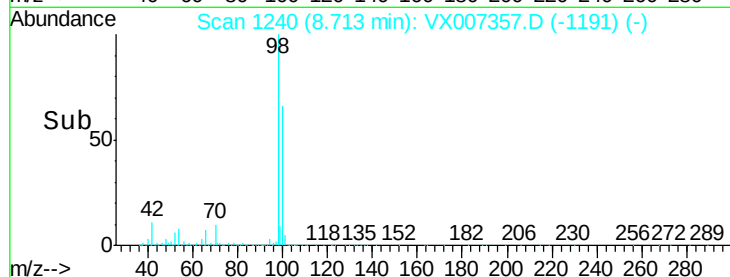
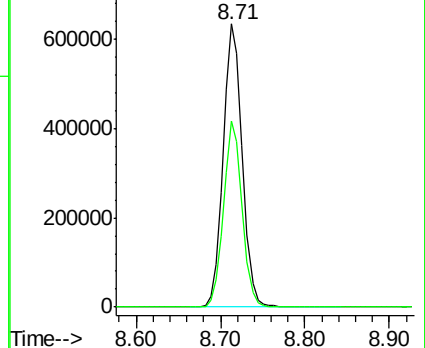
98 100

100 64.0 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: 23.933 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007357.D

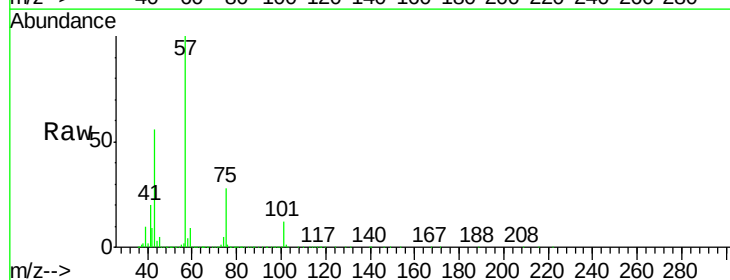
Acq: 04 Feb 2019 14:16

Tgt Ion: 43 Resp: 172004

Ion Ratio Lower Upper

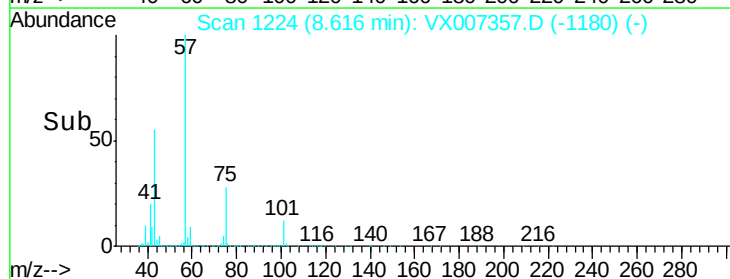
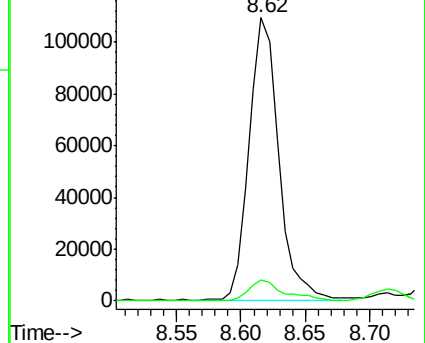
43 100

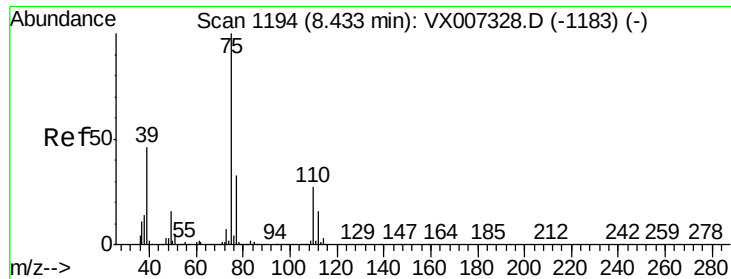
58 9.0 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 11.380 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#02

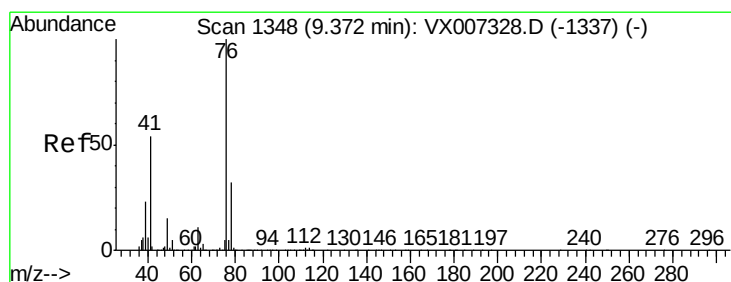
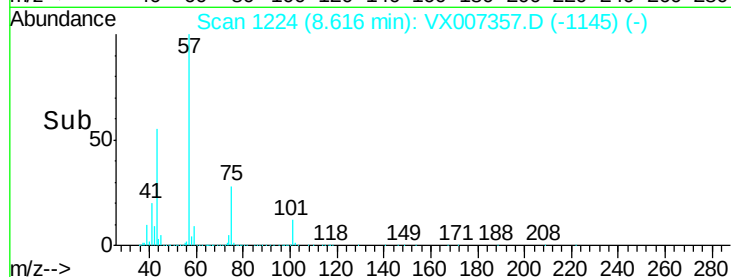
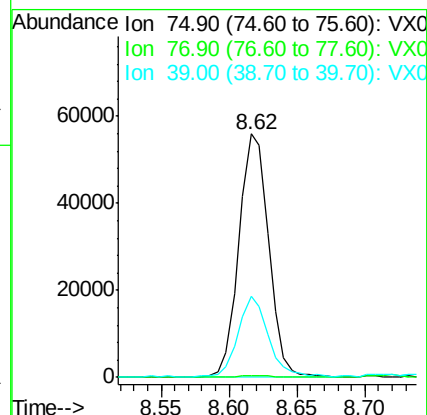
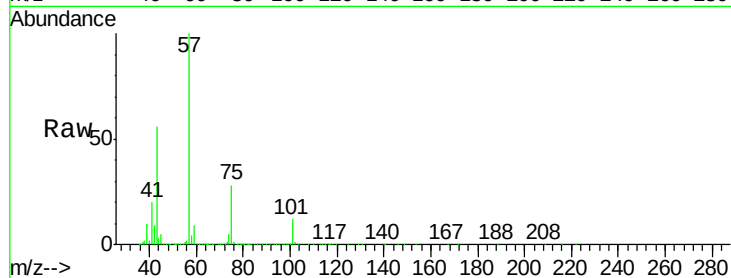
Tot Ion: 75 Resp: 85510

Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.4#

39 33.1 37.1 55.7#



#57

1,3-Dichloropropene

Concen: 2.229 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007357.D

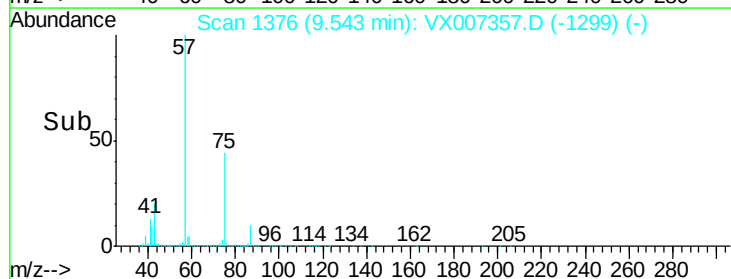
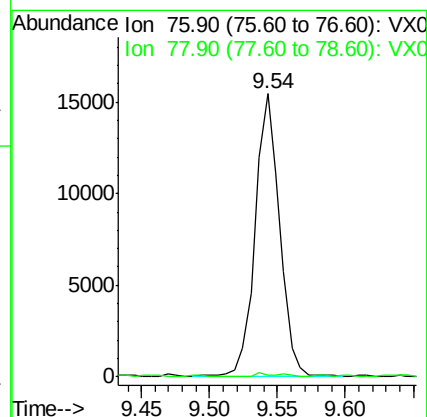
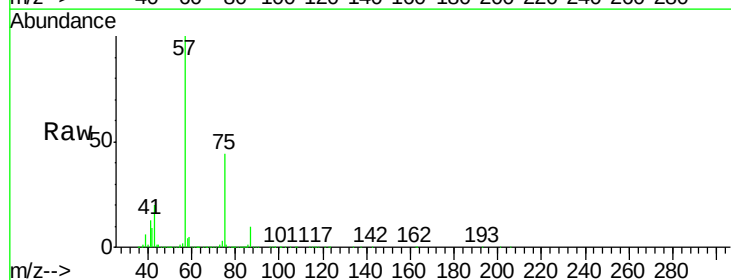
Acq: 04 Feb 2019 14:16

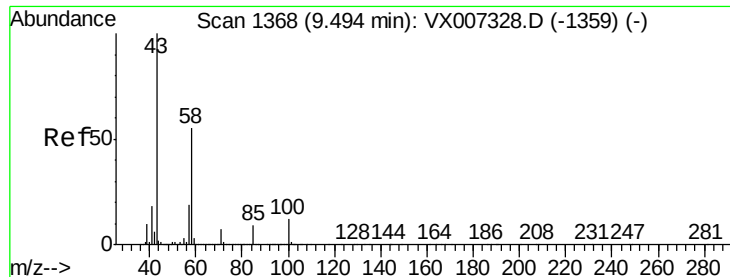
Tgt Ion: 76 Resp: 19646

Ion Ratio Lower Upper

76 100

78 0.8 25.8 38.8#

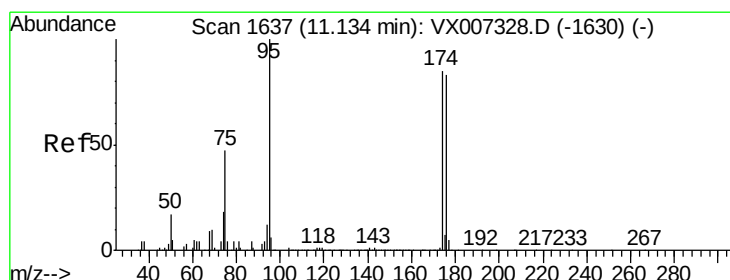
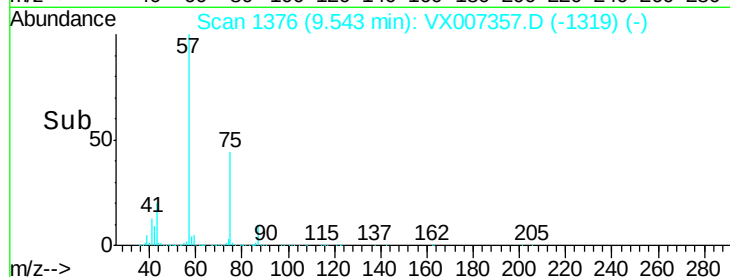
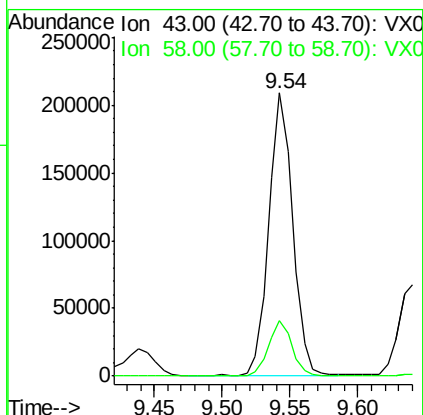
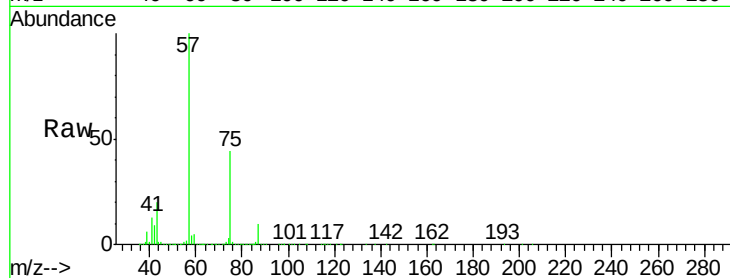




#59
2-Hexanone
Concen: 46.185 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

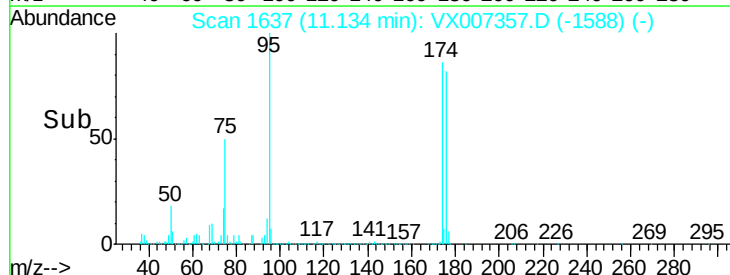
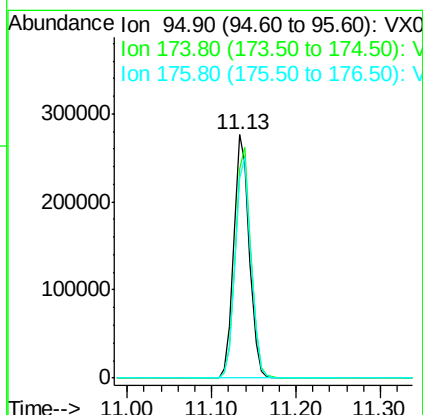
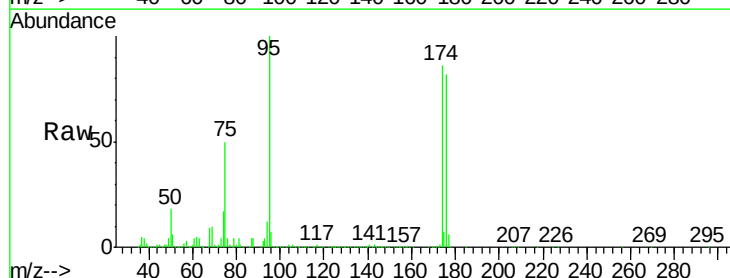
Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#02

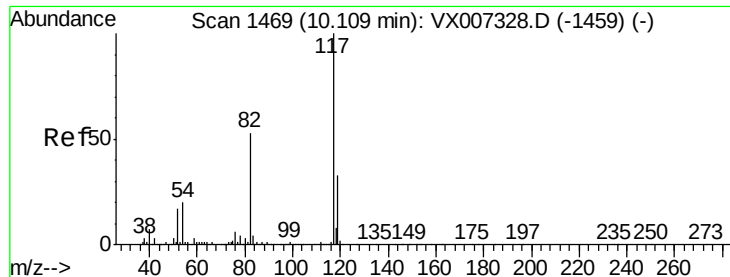
Tot Ion: 43 Resp: 258300
Ion Ratio Lower Upper
43 100
58 19.2 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 50.442 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Tgt Ion: 95 Resp: 346706
Ion Ratio Lower Upper
95 100
174 95.0 0.0 189.2
176 91.5 0.0 186.2

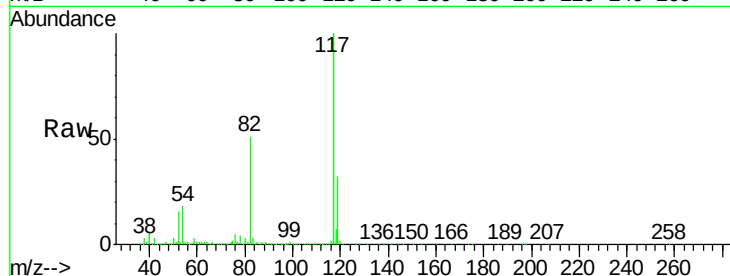




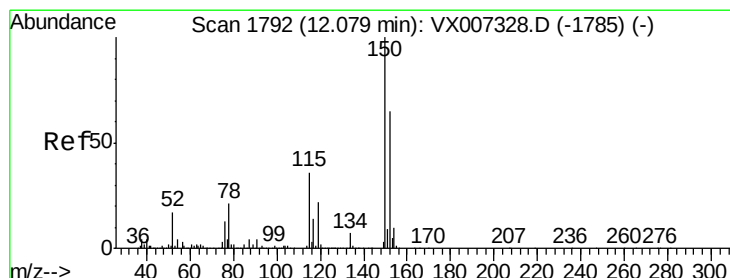
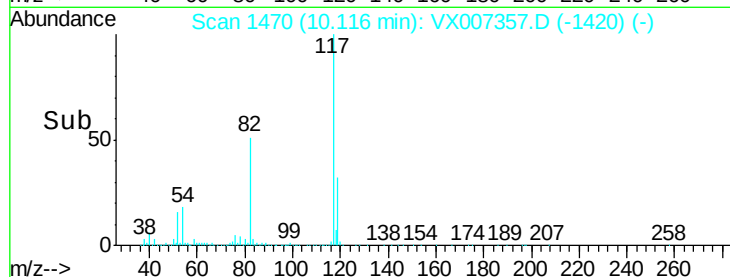
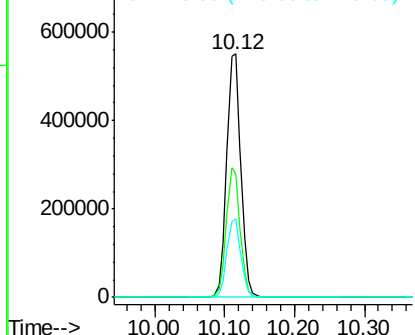
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Instrument :
MSVOA_X
ClientSampleId :
PB116780ZHE#02

Tot Ion:117 Resp: 774388
Ion Ratio Lower Upper
117 100
82 50.7 42.1 63.1
119 32.2 26.5 39.7

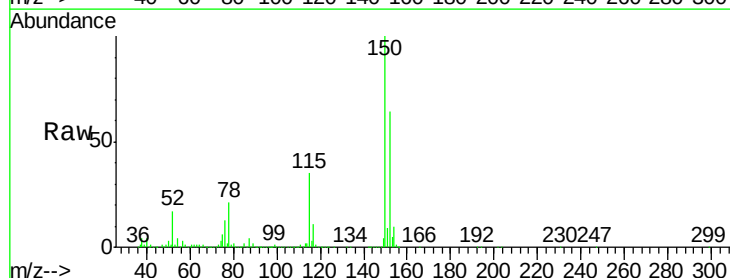


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

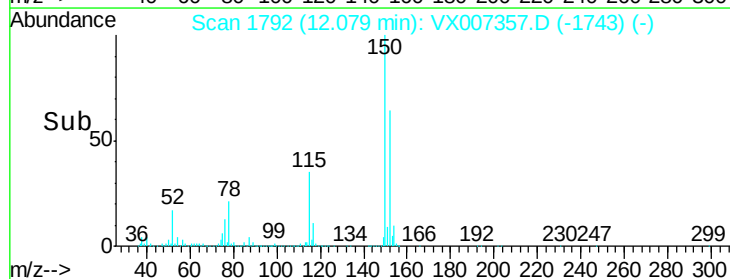
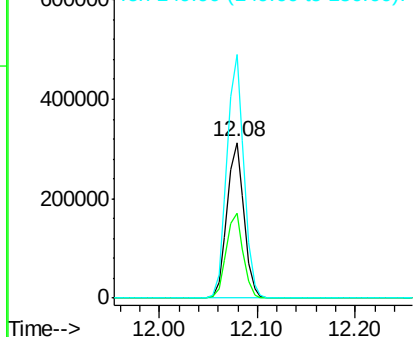


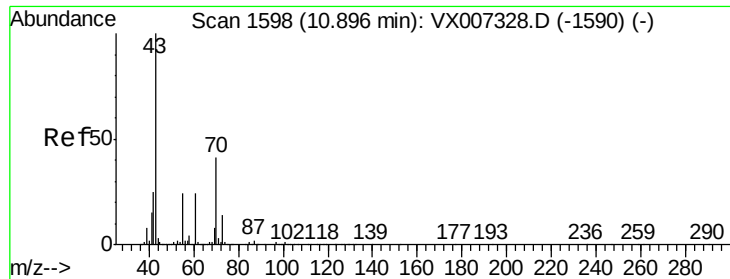
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007357.D
Acq: 04 Feb 2019 14:16

Tgt Ion:152 Resp: 376874
Ion Ratio Lower Upper
152 100
115 54.5 38.0 114.0
150 156.7 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-amvl acetate

Concen: 2.611 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

PB116780ZHE#02

Tot Ion: 43 Resp: 25862

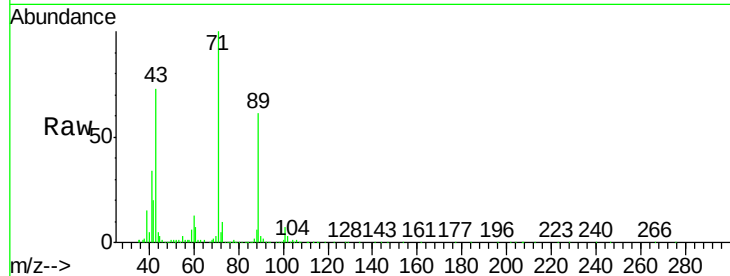
Ion Ratio Lower Upper

43 100

70 3.7 33.8 50.6#

55 5.7 19.5 29.3#

61 12.6 19.4 29.2#

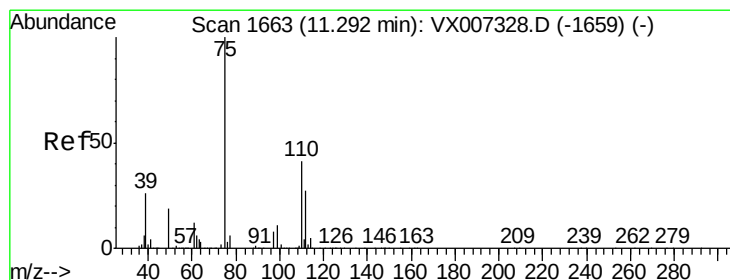
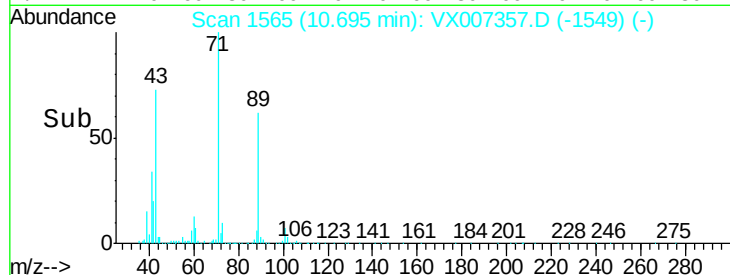
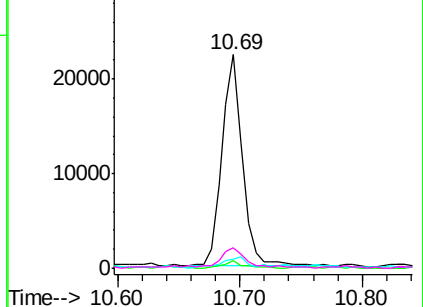


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.410 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007357.D

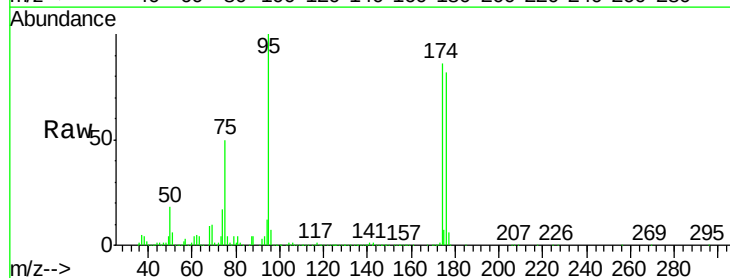
Acq: 04 Feb 2019 14:16

Tgt Ion: 75 Resp: 171608

Ion Ratio Lower Upper

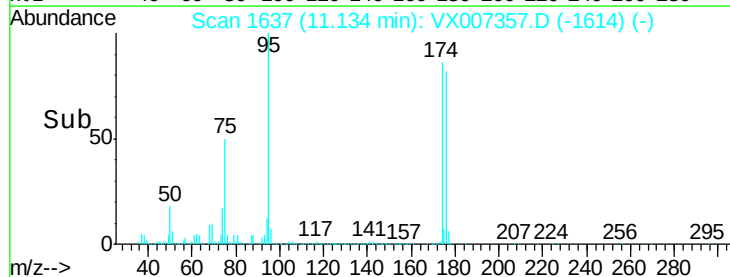
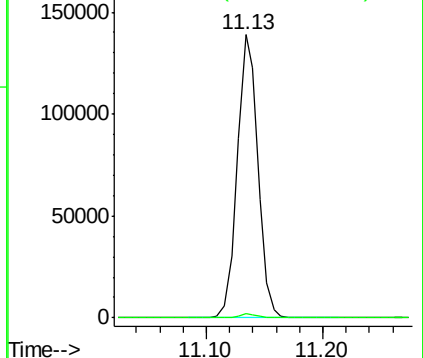
75 100

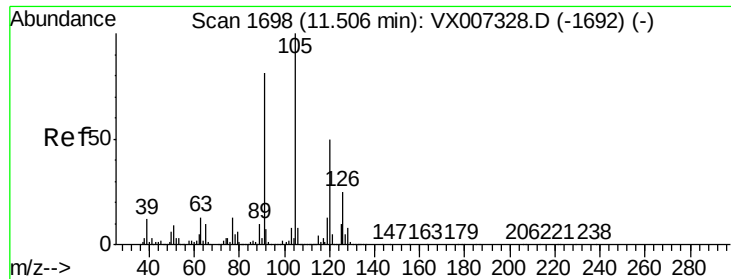
77 1.4 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.268 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

Instrument :

MSVOA_X

ClientSampleId :

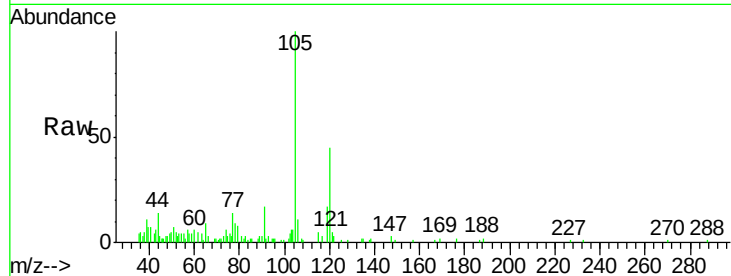
PB116780ZHE#02

Tot Ion:105 Resp: 5625

Ion Ratio Lower Upper

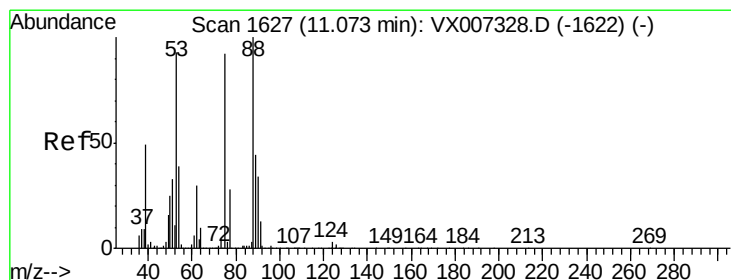
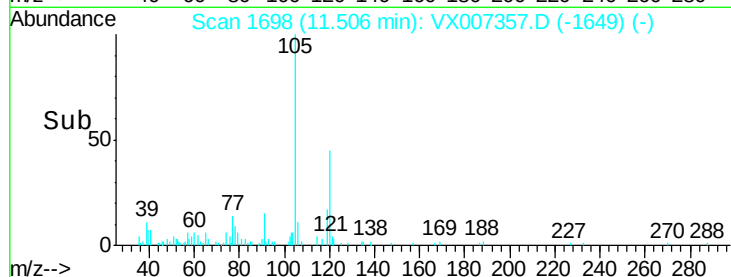
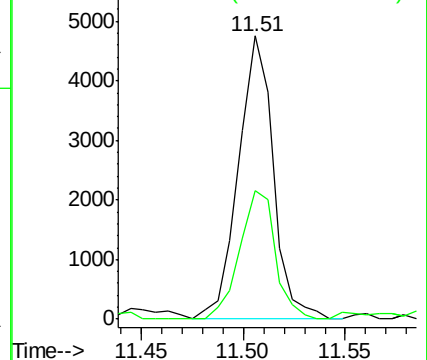
105 100

120 46.3 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.466 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007357.D

Acq: 04 Feb 2019 14:16

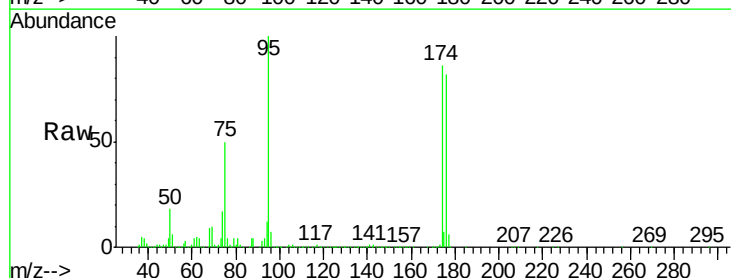
Tgt Ion: 75 Resp: 171608

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.0 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

